

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 100379 Analyst C. O'Bryant Start Date 9/19/17

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 AG616504 Exp 6/13/18
- ii. 0.040g/210L Mnf Argas Lot AG630101 Exp 10/27/18
- iii. 0.080g/210L Mnf Argas Lot AG608504 Exp 3/25/18
- iv. 0.100g/210L Mnf Argas Lot AG629304 Exp 10/19/18
- v. 0.200g/210L Mnf Guth Lot 16190 Exp 8/15/18
 - 1. Simulator S/N DR4162 Date Calibrated 3/27/17
- vi. 0.300g/210L Mnf Guth Lot 16410 Exp 12/19/18
 - 1. Simulator S/N SD1200 Date Calibrated 3/29/17

5. Functional Tests (attached)

- a. Incomplete
 - b. Invalid
 - c. Interference
 - d. Exceeded attempts
 - i. Acetone - Mnf Guth Lot 16160 Level 0.100 Exp 8⁰⁰⁸ 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 16160 Level 0.100 Exp 7/19/18
 - 1. Simulator S/N DR6267 Date Calibrated 3/27/17
- 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 9/21/17

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/19/2017
Time: 14:25:01

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 = 45.3°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.60 V PASSED
(0.96 V - 2.24 V)
Cooler Voltage = 1.58 V PASSED
(0.95 V - 2.21 V)
Bias Voltage = 79 V PASSED
(47 V - 111 V)
Chopper Freq = 537 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.8 in

PUMP INFO

Flow Rate = 4.851 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 = 0.083 0.84% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100379

Date: 09/19/2017
Time: 2:39 PM

Temperatures (°C)

Sample Cell: 49.4°C
Breath Tube: 44.9°C

Current Barometer 29.8 in
Volume (Ltr) 1.53

Settings

Lamp: 1.60 V
Bias: 80 V
Cooler: 1.68 V
Chopper: 536 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.074 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/14/2017
Time: 12:47:58

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 1.021015 0.800 <= CAL < 1.200
b1 = 0.0004 0.0000 <= b1 < 0.0040
b2 = 0.0035 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.0833 0.0500 <= Xq < 0.2000
a21 = 1.127110 1.050 <= a21 < 1.300
a31 = 0.445281 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100379

Date: 09/19/2017
Time: 14:45:47

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

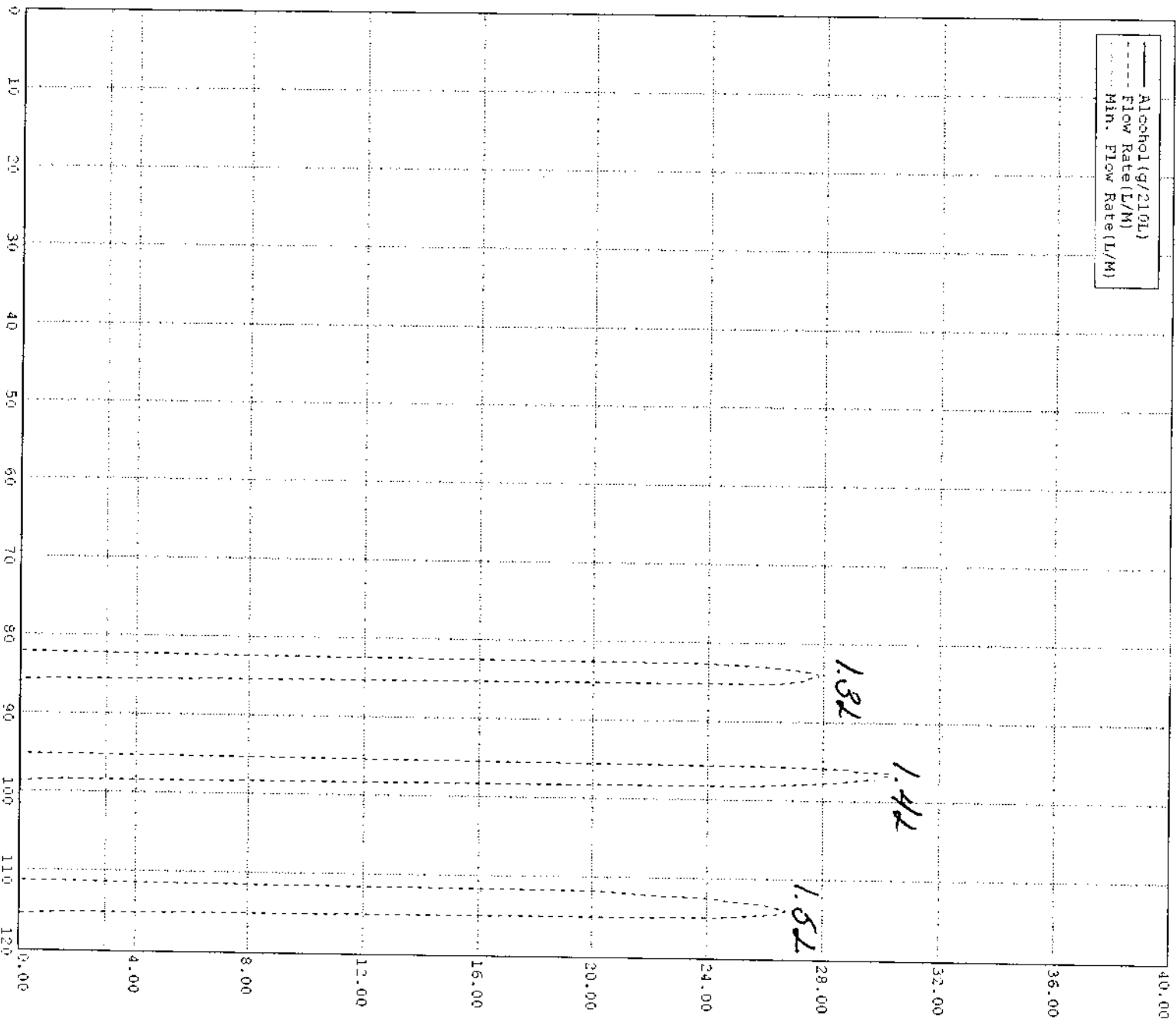
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.080
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	14:46
BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.079	14:47
BLANK TEST	0.000	14:48
SUBJECT SAMPLE	INCOMPLETE	14:50

CMB



LINEARITY CHECK

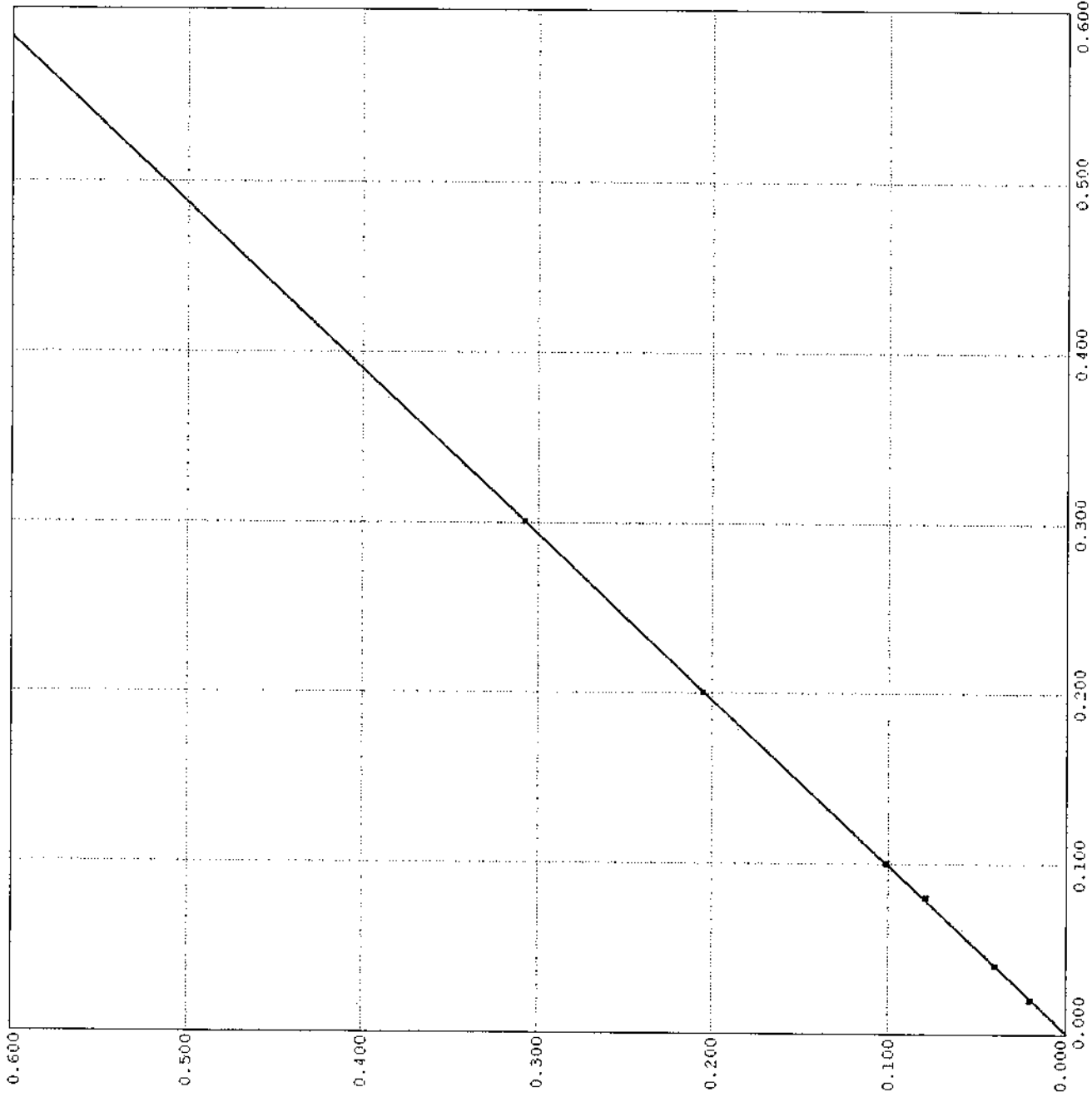
Alaska Department of Public Safety
 DATAMASTER dmt: 100379

Date: 09/19/2017
 Time: 15:13:36

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0210	0.0000
0.040	0.0408	0.0004
0.080	0.0800	0.0000
0.100	0.1020	0.0000
0.200	0.2060	0.0000
0.300	0.3082	0.0004

SLOPE = 1.029615
 R² = 0.999921



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

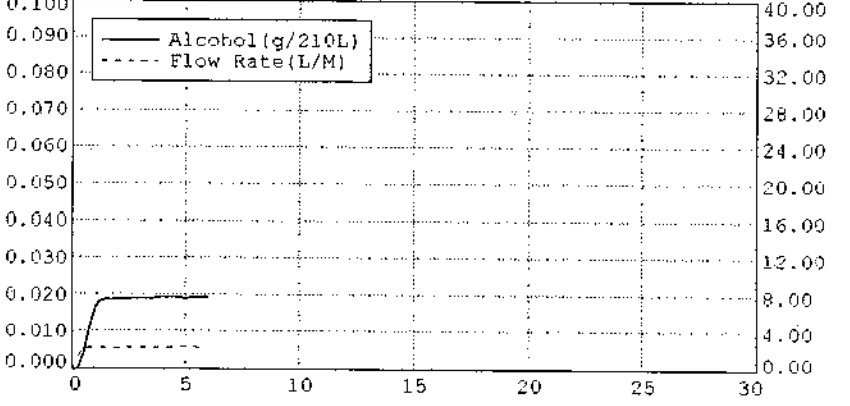
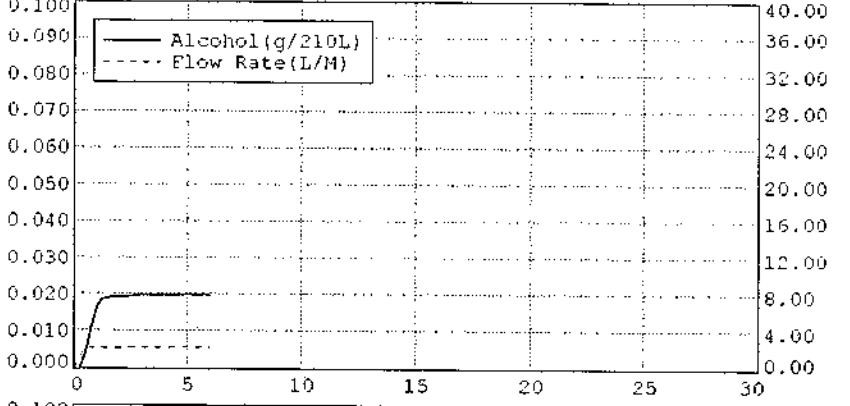
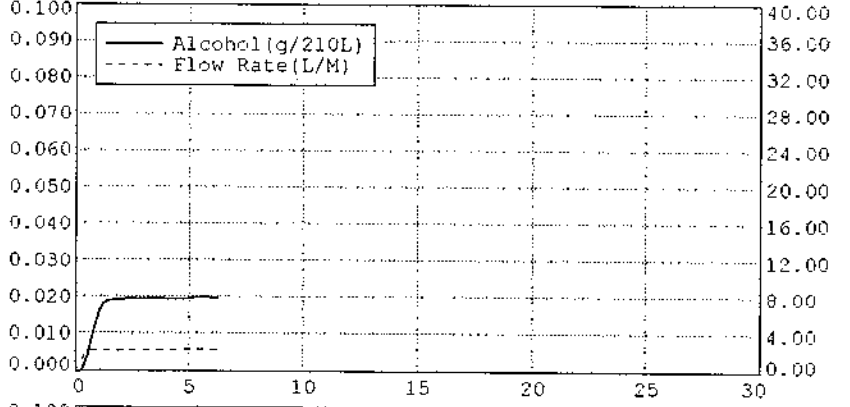
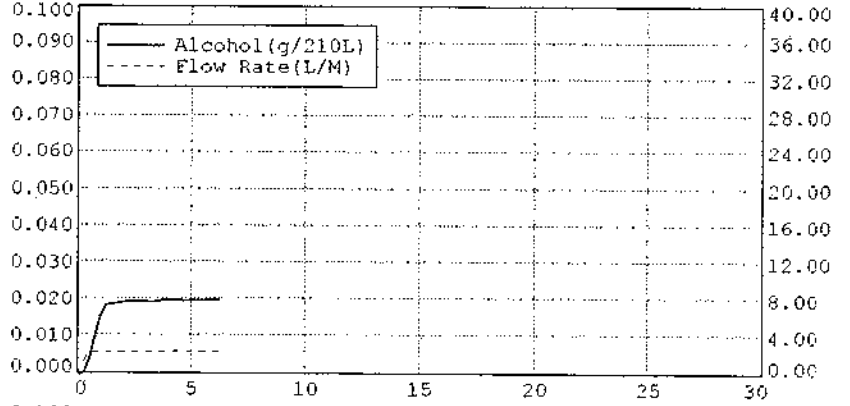
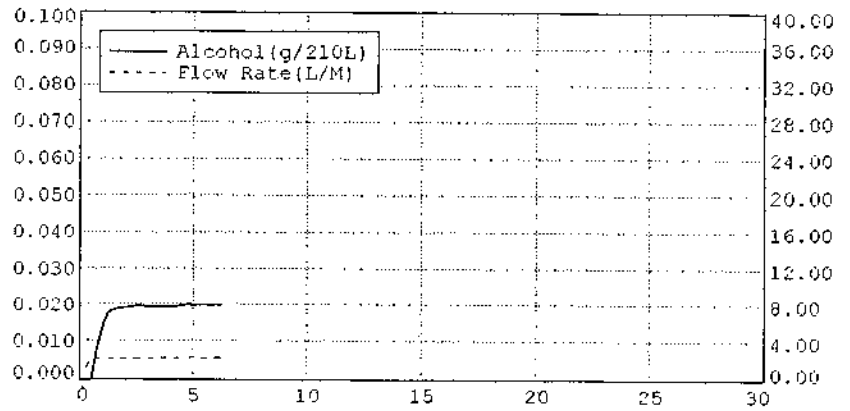
Date: 09/19/2017
 Time: 15:13:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.78: 0.020
 LOT #: AG616504
 EXPIRATION: 06/13/2018
 TANK PRESSURE: 692 psi

BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.021	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.021	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.021	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.021	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.021	15:21
BLANK TEST	0.000	15:22

Average = 0.0210
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

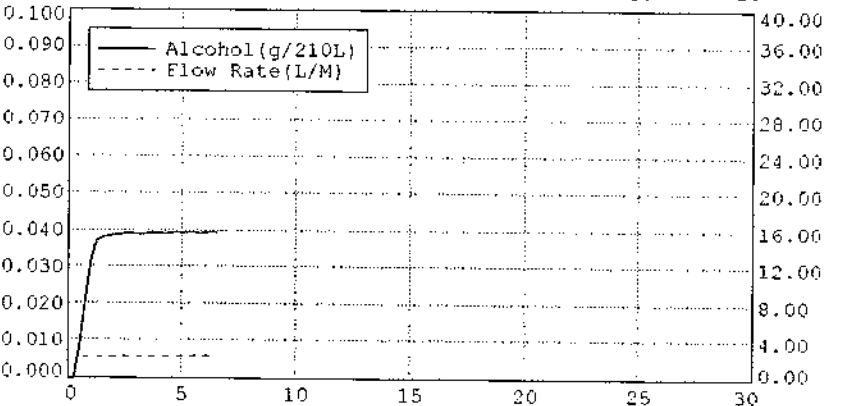
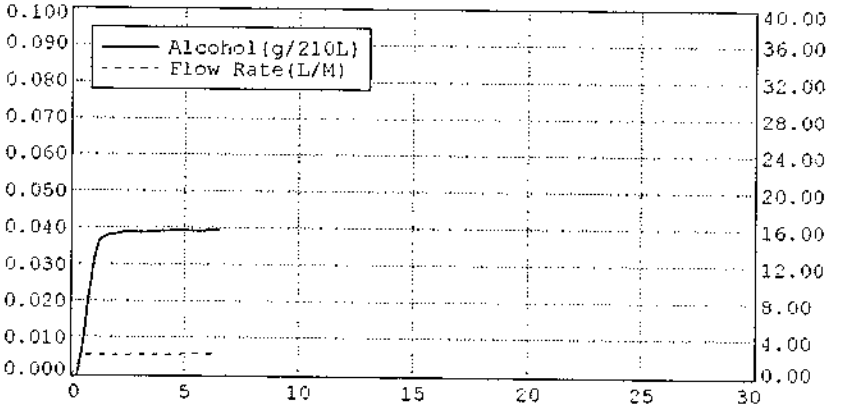
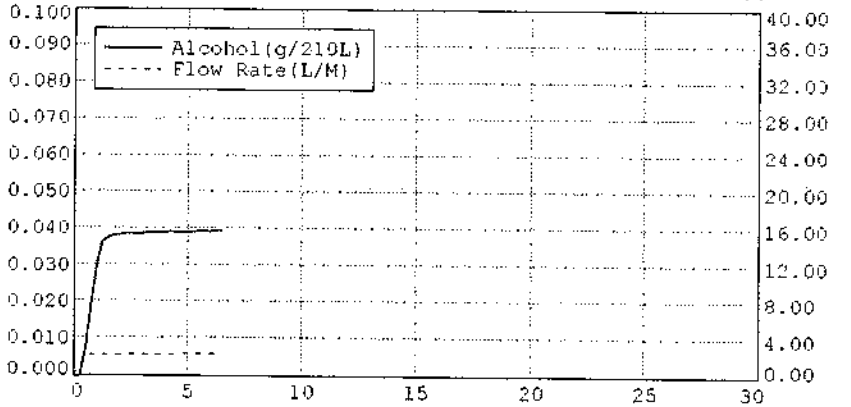
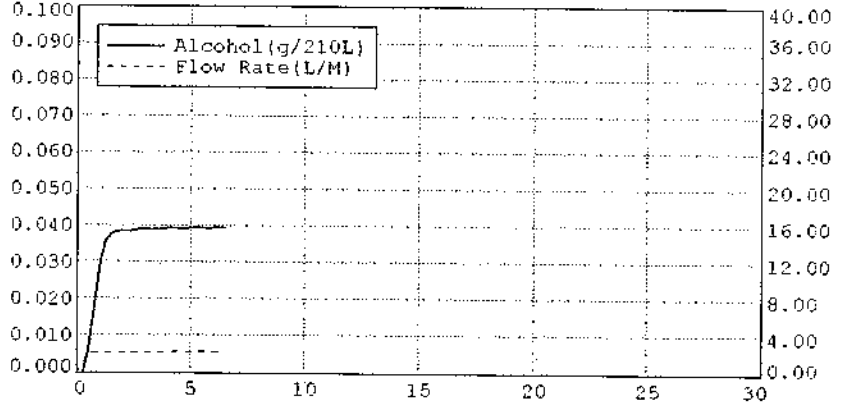
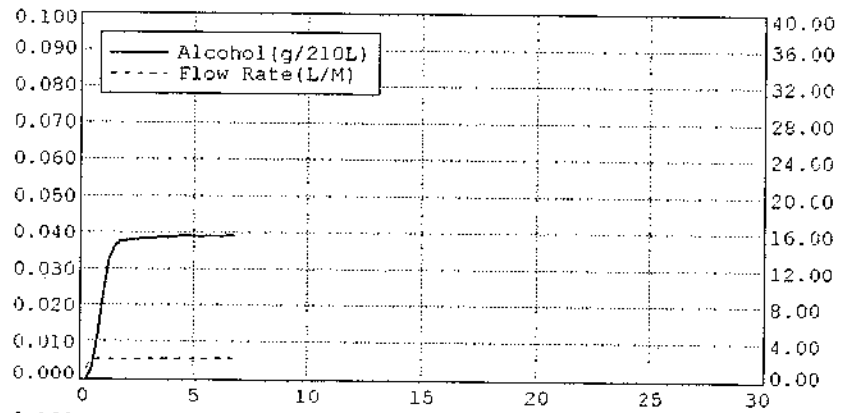
Date: 09/19/2017
 Time: 15:28:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.78: 0.040
 LOT #: AG630101
 EXPIRATION: 10/27/2018
 TANK PRESSURE: 681 psi

BLANK TEST	0.000	15:29
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.041	15:30
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.041	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.040	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.041	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.041	15:34
BLANK TEST	0.000	15:35

Average = 0.0408
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

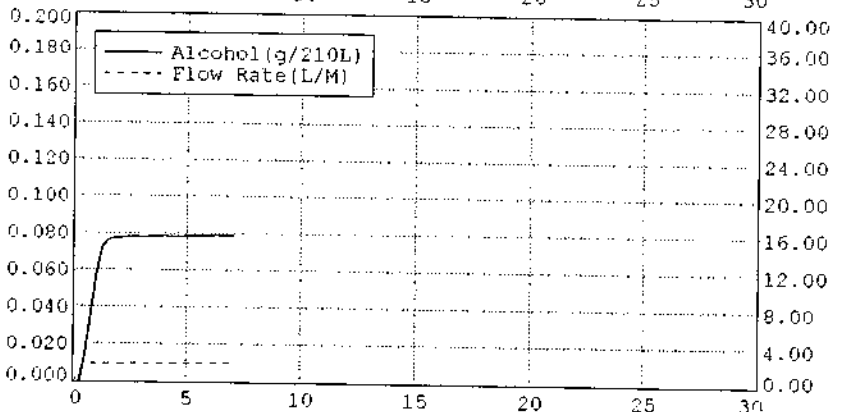
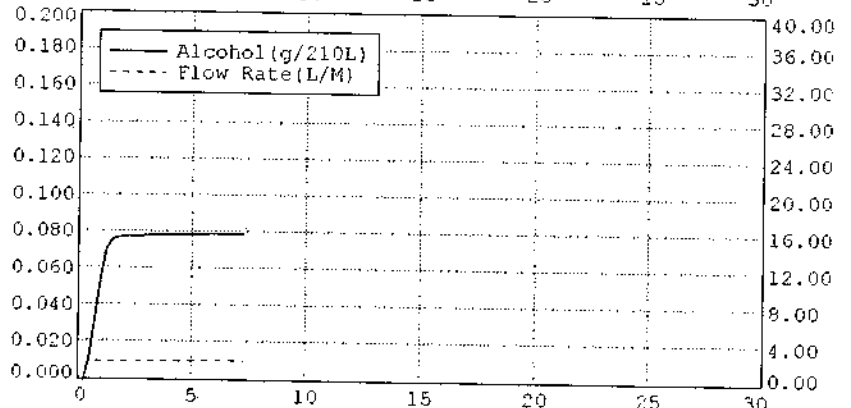
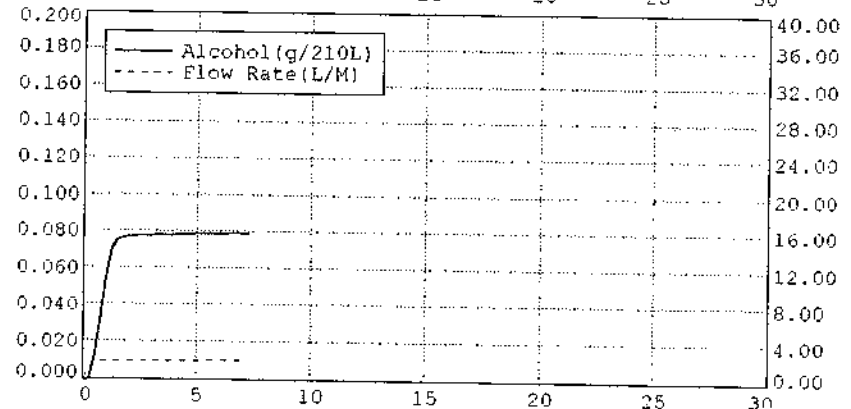
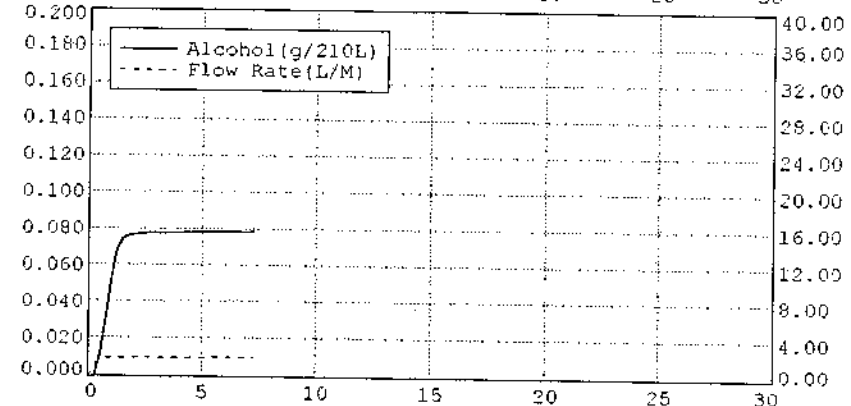
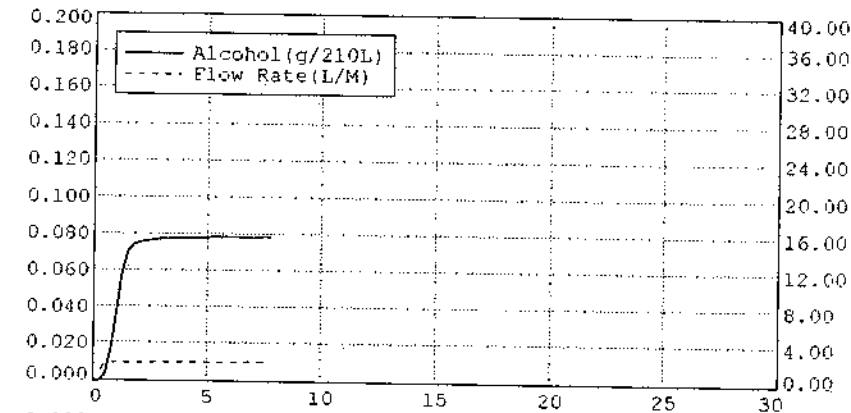
Date: 09/19/2017
 Time: 15:37:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.78: 0.080
 LOT #: AG608504
 EXPIRATION: 03/25/2018
 TANK PRESSURE: 289 psi

BLANK TEST	0.000	15:43
INTERNAL STANDARD	VERIFIED	15:43
EXTERNAL STANDARD	0.080	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.080	15:44
BLANK TEST	0.000	15:45
EXTERNAL STANDARD	0.080	15:46
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.080	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.080	15:48
BLANK TEST	0.000	15:49

Average = 0.0800
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

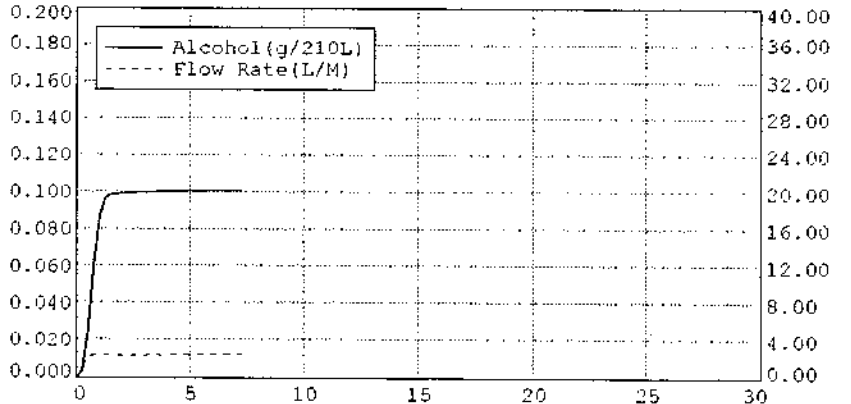
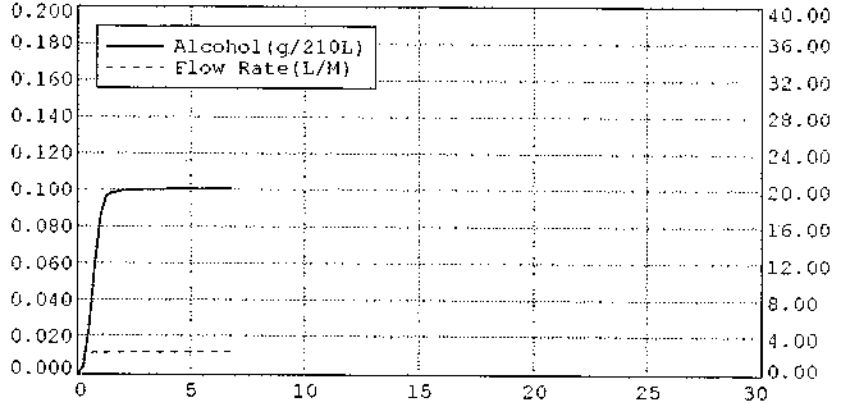
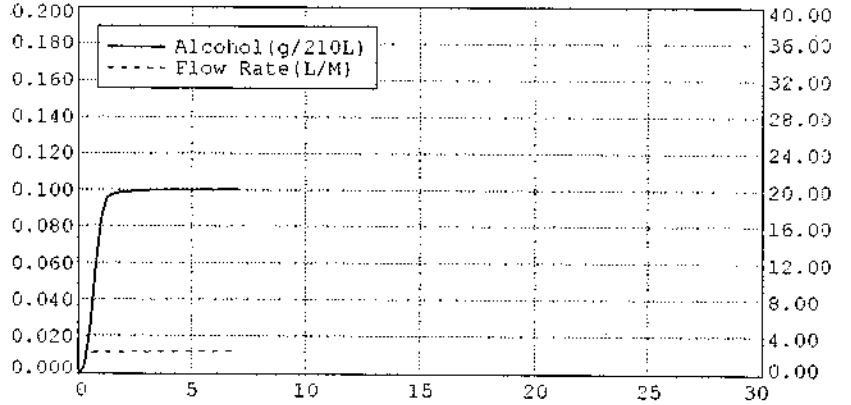
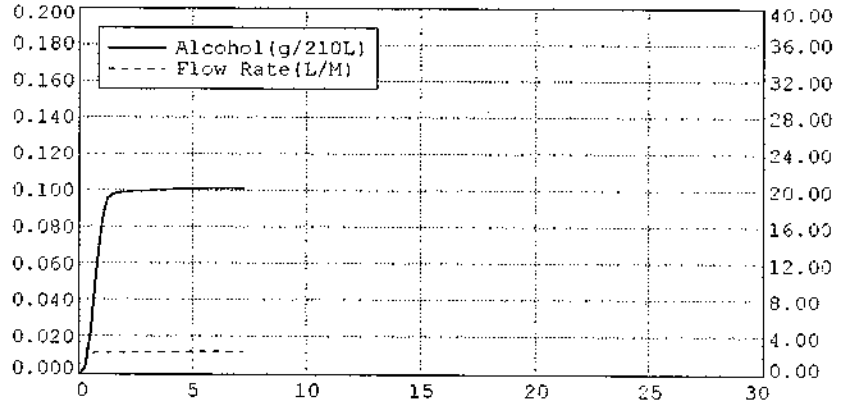
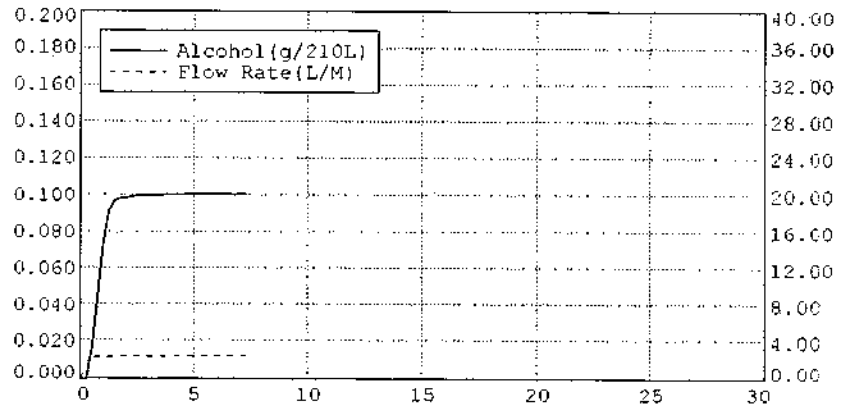
Date: 09/19/2017
 Time: 15:50:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.78: 0.100
 LOT #: AG629304
 EXPIRATION: 10/19/2018
 TANK PRESSURE: 962 psi

BLANK TEST	0.000	15:51
INTERNAL STANDARD	VERIFIED	15:52
EXTERNAL STANDARD	0.102	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.102	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.102	15:54
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.102	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.102	15:56
BLANK TEST	0.000	15:57

Average = 0.1020
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 5

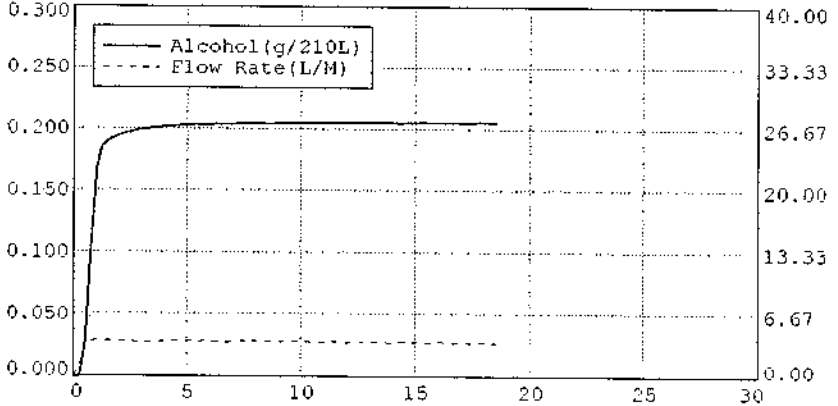
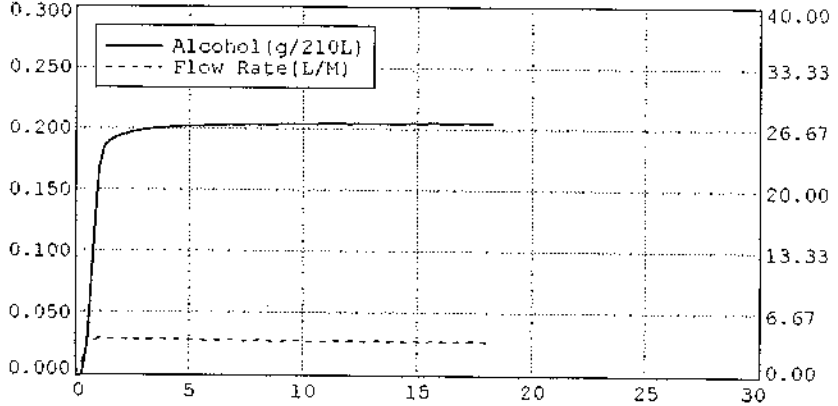
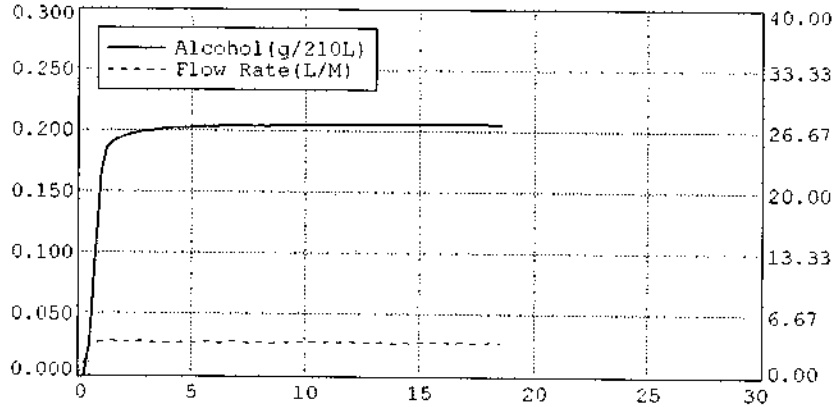
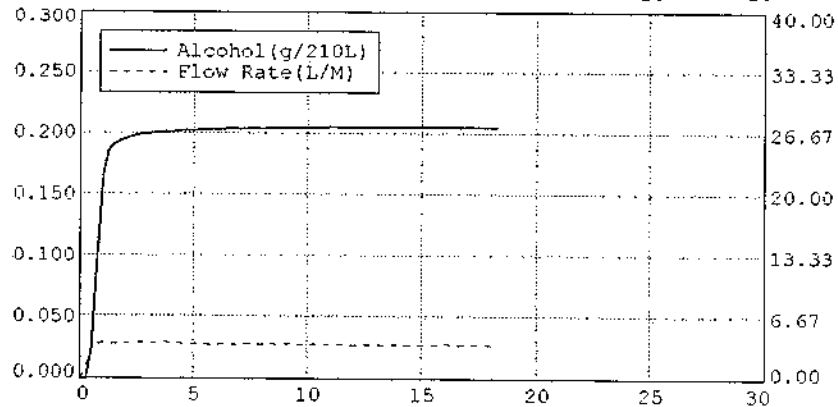
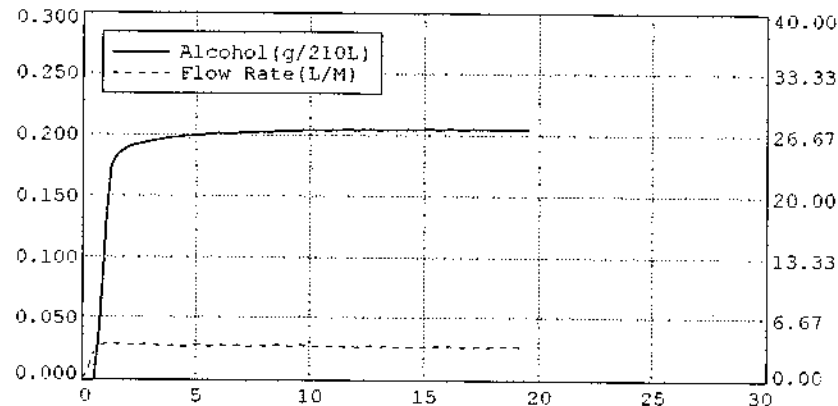
Alaska Department of Public Safety
 DATAMASTER dmt: 100379

Date: 09/19/2017
 Time: 16:09:48

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 16190
 EXPIRATION: 08/15/2018

BLANK TEST	0.000	16:10
INTERNAL STANDARD	VERIFIED	16:11
EXTERNAL STANDARD	0.206	16:11
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.206	16:12
BLANK TEST	0.000	16:13
EXTERNAL STANDARD	0.206	16:14
BLANK TEST	0.000	16:15
EXTERNAL STANDARD	0.206	16:15
BLANK TEST	0.000	16:16
EXTERNAL STANDARD	0.206	16:16
BLANK TEST	0.000	16:17

Average = 0.2060
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100379

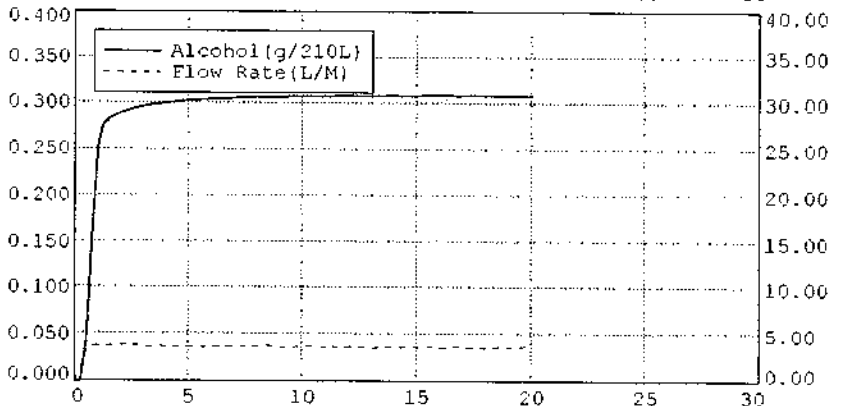
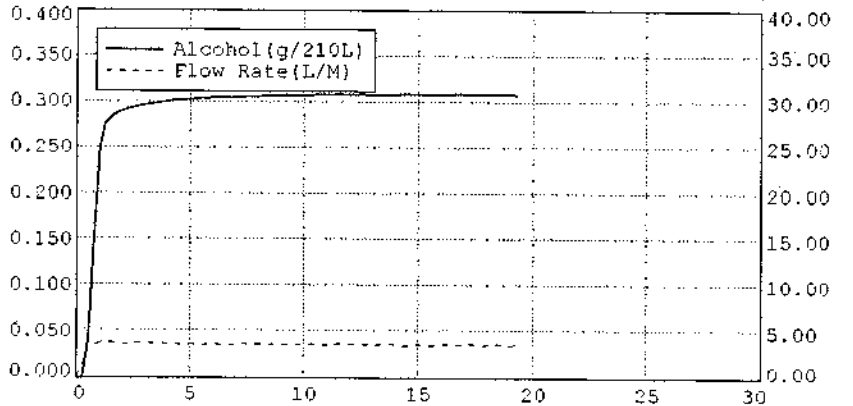
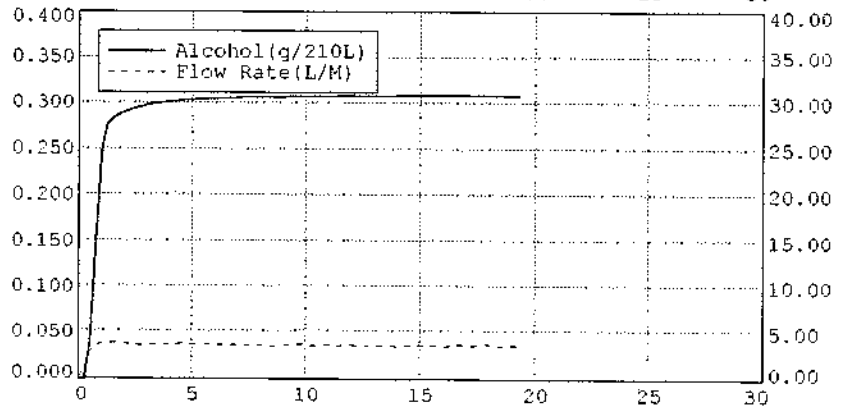
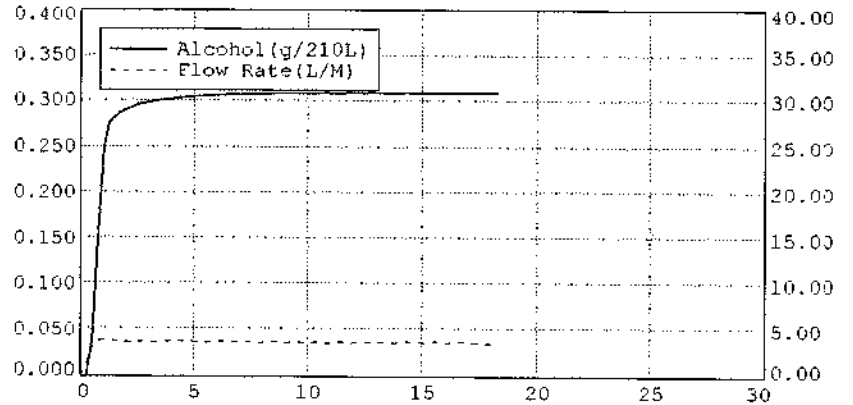
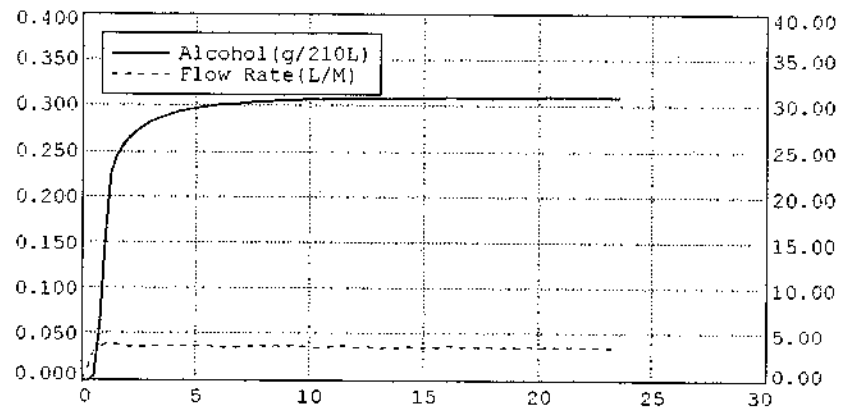
Date: 09/19/2017
 Time: 16:20:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 16410
 EXPIRATION: 12/19/2018

BLANK TEST	0.000	16:21
INTERNAL STANDARD	VERIFIED	16:21
EXTERNAL STANDARD	0.309	16:22
BLANK TEST	0.000	16:23
EXTERNAL STANDARD	0.308	16:23
BLANK TEST	0.000	16:24
EXTERNAL STANDARD	0.308	16:24
BLANK TEST	0.000	16:25
EXTERNAL STANDARD	0.308	16:26
BLANK TEST	0.000	16:27
EXTERNAL STANDARD	0.308	16:27
BLANK TEST	0.000	16:28

Average = 0.3082
 Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/21/2017
Time: 08:20:20

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

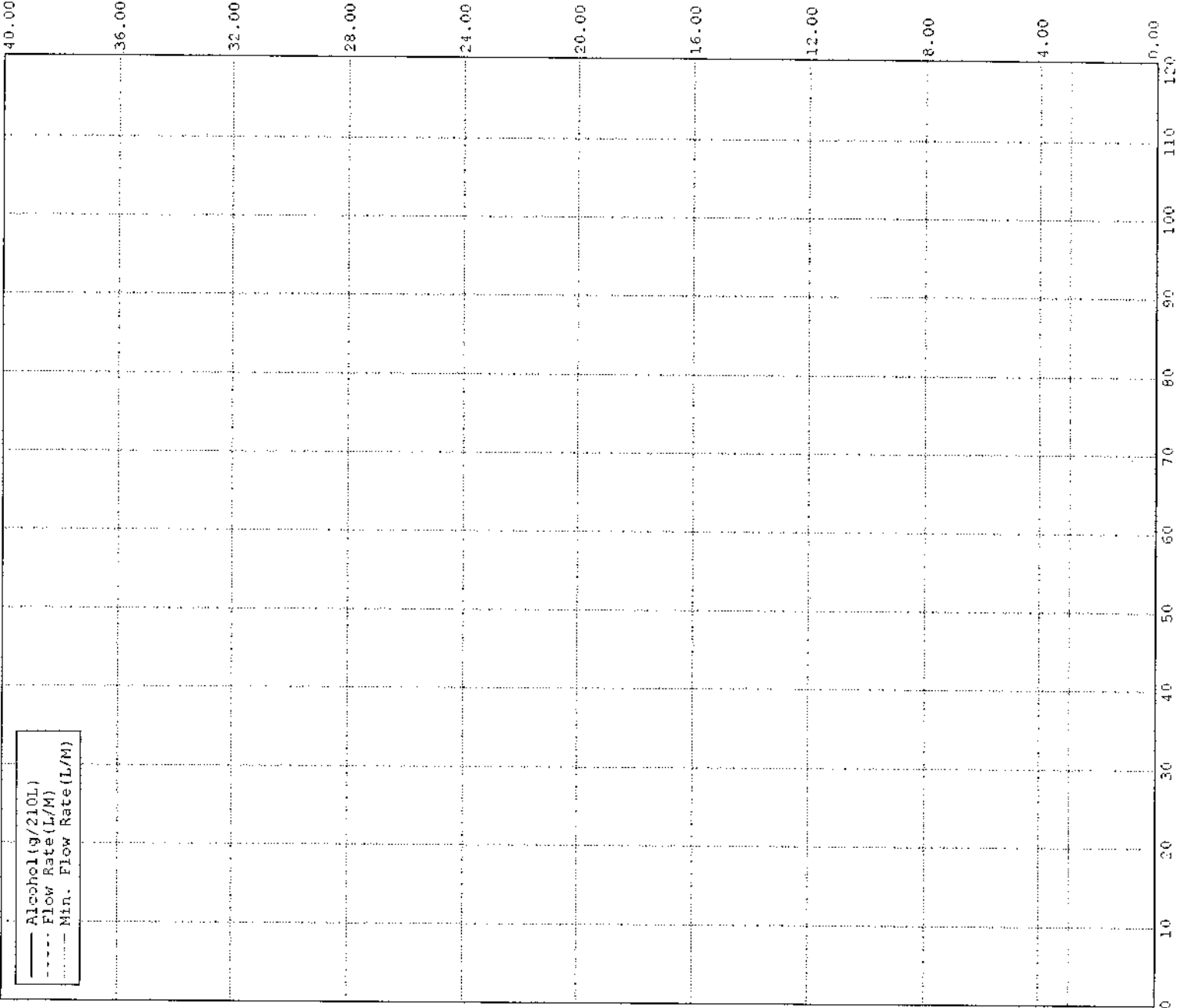
DEPT/AGENCY:
AAA1

CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.60: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 08:29
BLANK TEST 0.000 08:30
INTERNAL STANDARD VERIFIED 08:30
EXTERNAL STANDARD 0.079 08:30
BLANK TEST 0.000 08:31
SUBJECT SAMPLE INCOMPLETE 08:33



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/21/2017
Time: 13:23:13

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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

DEPT/AGENCY:
AAAI

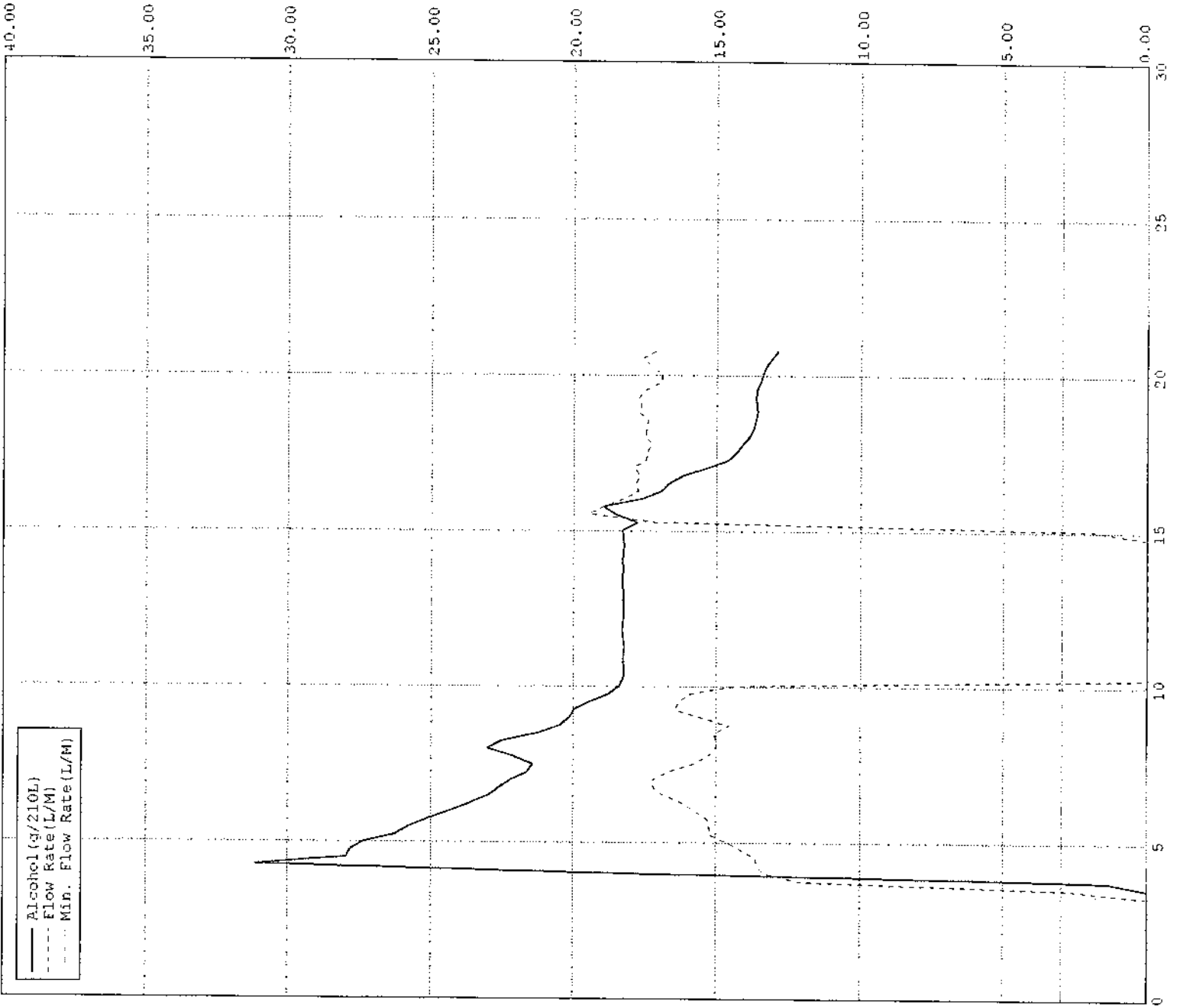
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.55: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:24
BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.078	13:25
BLANK TEST	0.000	13:26
SUBJECT SAMPLE	INVALID	13:26

CAB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/21/2017
Time: 13:32:21

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

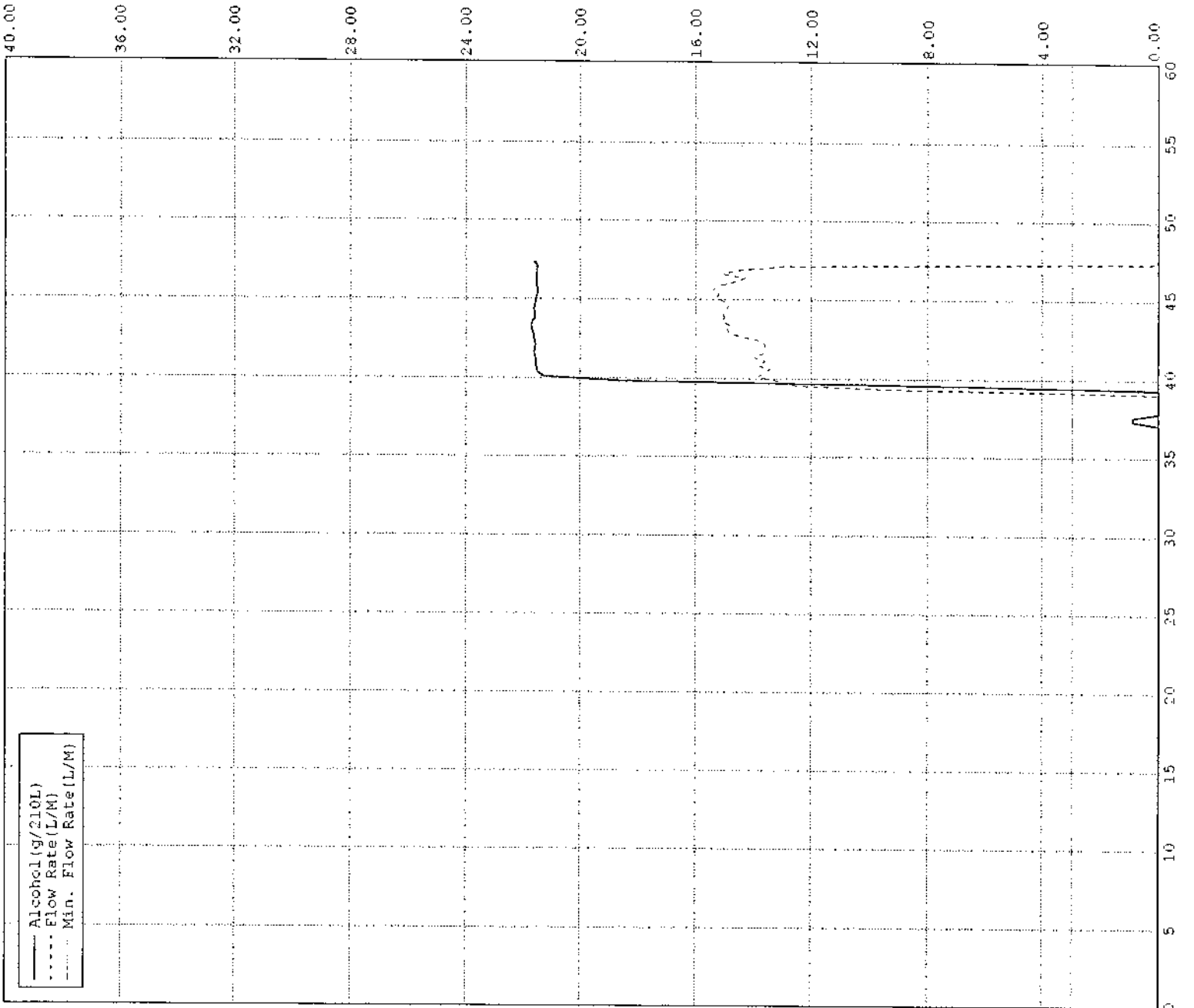
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:35
BLANK TEST	0.000	13:36
INTERNAL STANDARD	VERIFIED	13:36
Xq = 0.084 (0.94%)		
EXTERNAL STANDARD	0.079	13:36
X[1] = 0.0787 (-0.0003) (0.0006)		
BLANK TEST	0.000	13:37
SUBJECT SAMPLE	XXX	13:38
X[1] = 0.1082 (-0.0216) (-0.0021)		

Interference Detected

Filter 2 Avg = 0.0003
Filter 3 Avg = 0.0014



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100379

Date: 09/21/2017
Time: 13:41:43

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

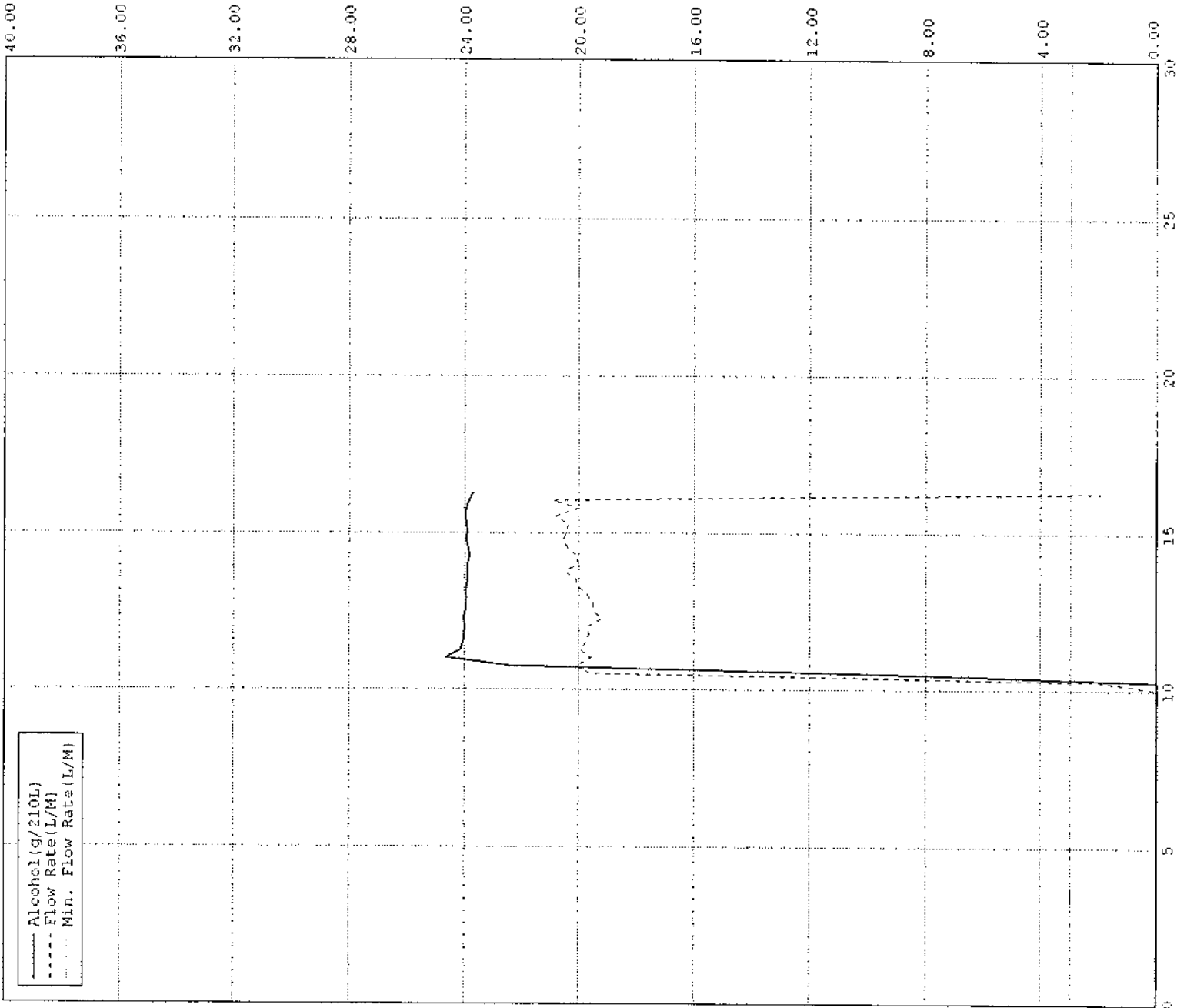
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.53: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:43
BLANK TEST	0.000	13:43
INTERNAL STANDARD	VERIFIED	13:43
Xq = 0.083 (0.00%)		
EXTERNAL STANDARD	0.080	13:43
X[1] = 0.0795 (0.0004)	(0.0021)	
BLANK TEST	0.000	13:44
SUBJECT SAMPLE	XXX	13:44
X[1] = 0.1184 (-0.0161)	(0.0013)	

Interference Detected

CAS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/21/2017
Time: 13:49:04

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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

DEPT/AGENCY:
AAA1

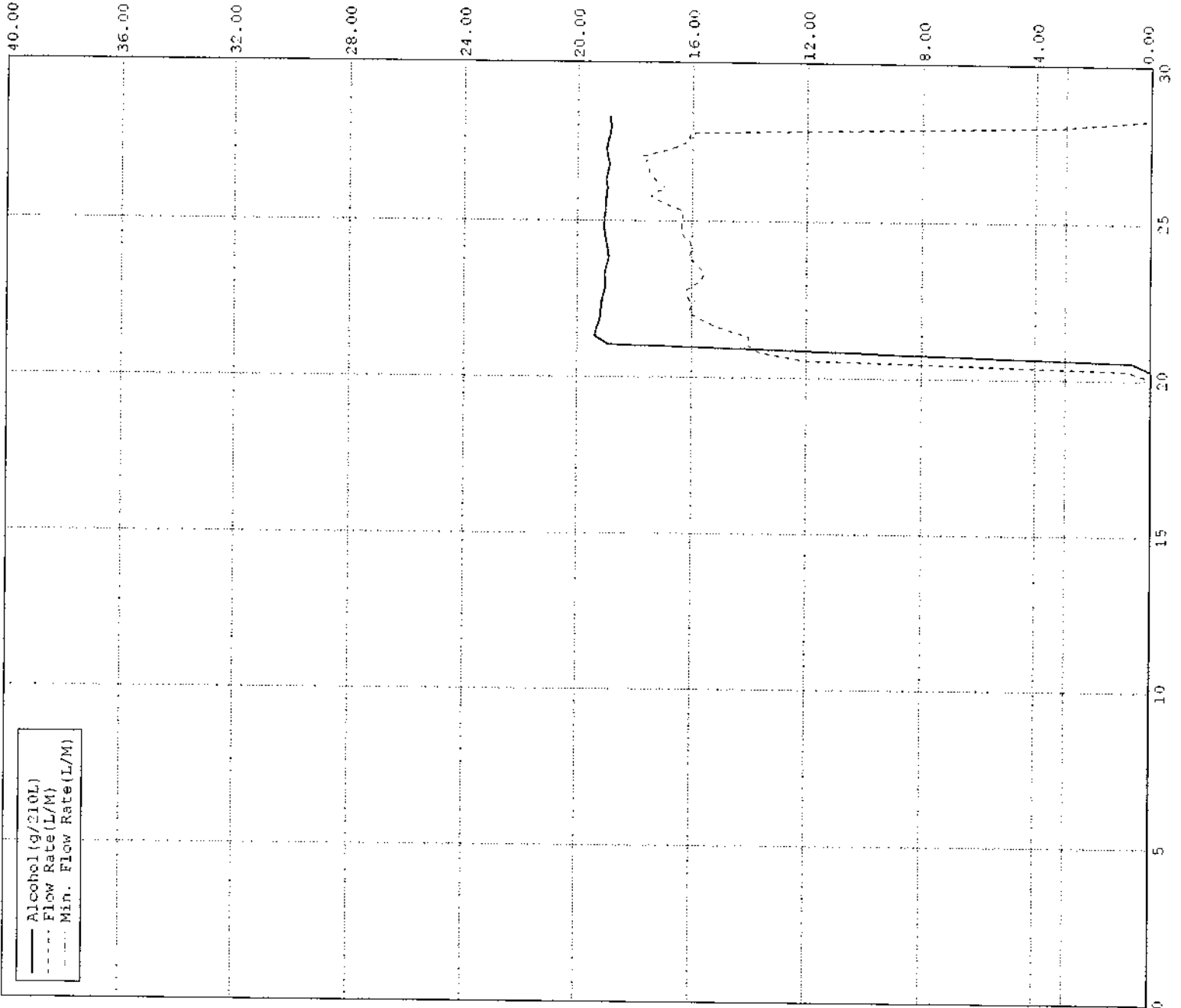
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.53: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	13:50
BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
Xg = 0.082 (1.04%)		
EXTERNAL STANDARD	0.079	13:50
X[1] = 0.0788 (0.0004) (0.0013)		
BLANK TEST	0.000	13:51
SUBJECT SAMPLE (Vol=2.02L)	0.094	13:52
X[1] = 0.0947 (-0.0002) (0.0003)		
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.079	13:53
X[1] = 0.0790 (0.0007) (0.0014)		
BLANK TEST	0.000	13:54

CB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/21/2017
Time: 13:58:37

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

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

DEPT/AGENCY:

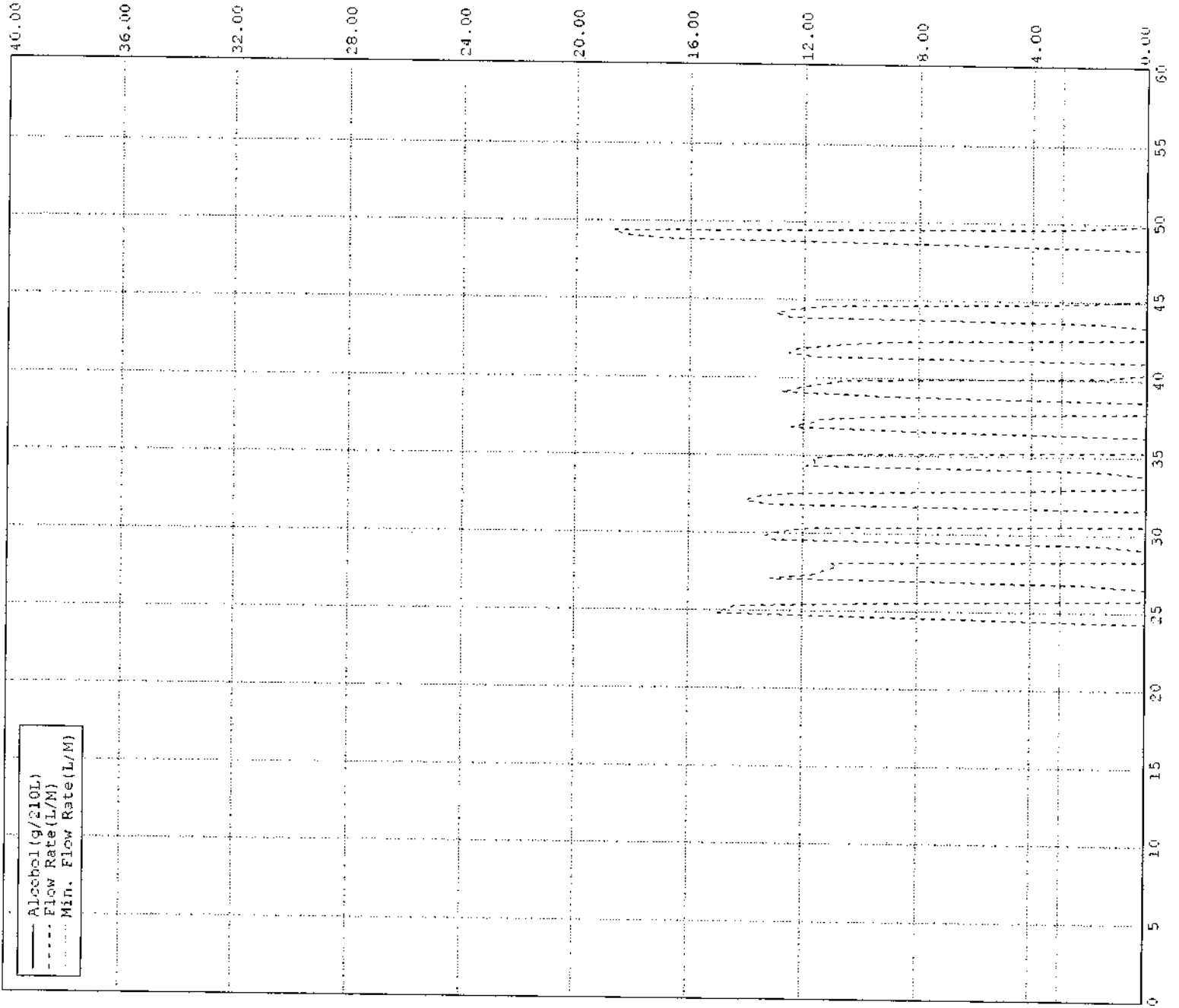
AAA1
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 13:59
BLANK TEST 0.000 14:00
INTERNAL STANDARD VERIFIED 14:00
EXTERNAL STANDARD 0.079 14:00
BLANK TEST 0.000 14:01
SUBJECT SAMPLE XXX 14:02

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/21/2017
Time: 14:03:38

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

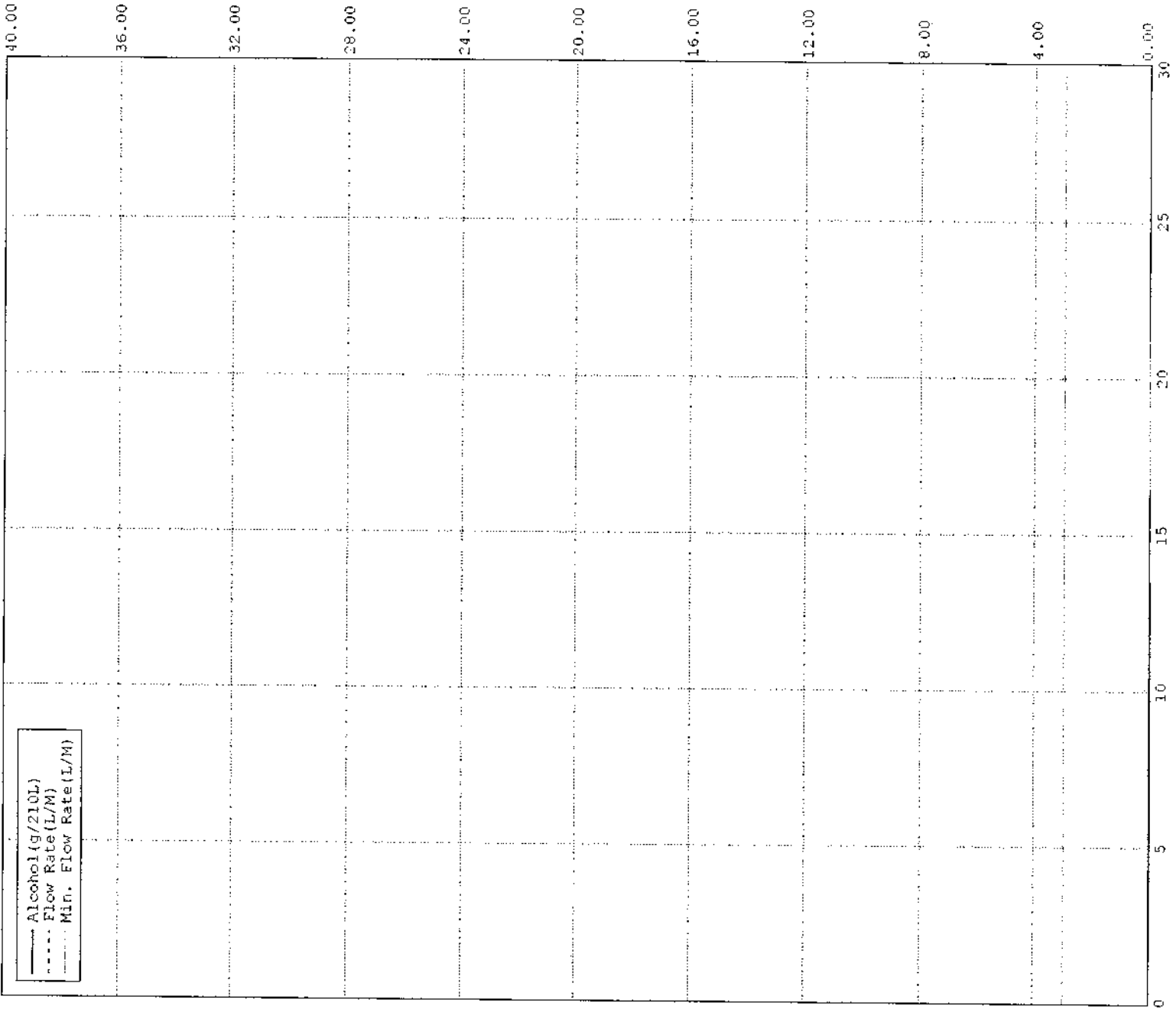
CASE/REPORT: 17-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.54: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK PASSED 14:04
BLANK TEST 0.000 14:04
INTERNAL STANDARD VERIFIED 14:04
EXTERNAL STANDARD 0.079 14:05
BLANK TEST 0.000 14:06

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100379

Date: 09/21/2017
Time: 14:18:19

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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 29.52: 0.079
LOT #: AG608504
EXPIRATION: 03/25/2018

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.079	14:21
BLANK TEST	0.000	14:22
SUBJECT SAMPLE (Vol=2.09L)	0.000	14:23
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.080	14:24
BLANK TEST	0.000	14:25

