

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 05/15/2020
Effective: 05/15/2020

Version: DMCEF 2020 R0
Status: Active

Instrument S/N 100376 Analyst C. O. Bryant Start Date 7/14/20

- Diagnostic Test (attached) Internal Standard value $\leq 3.00\%$

Voltage Checks

- 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)

- Set RFI
 Adjust barometer reading to match NIST traceable barometer
 Adjust volume setting, if needed (1.5L +/- 0.1L)
 Print Technician Screen (attached)
 Print Calibration Factors (attached)
 Volume Test - Minimum 1.6 L (1.3L to 1.7L)

Linearity Test (attached)

Levels Used

- i. 0.020g/210L Mnf Argas Lot AG 928203 Exp 10/9/21
- ii. 0.040g/210L Mnf Argas Lot AG 915607 Exp 6/5/21
- iii. 0.080g/210L Mnf Argas Lot AG 826101 Exp 9/18/20
- iv. 0.100g/210L Mnf Argas Lot AG 924701 Exp 9/4/21
- v. 0.200g/210L Mnf Guth Lot 19200 Exp 8/6/21
Simulator S/N SD1200 Date Calibrated 10/8/19
- vi. 0.300g/210L Mnf Guth Lot 19330 Exp 10/13/21
Simulator S/N DR4177 Date Calibrated 10/8/19

Functional Tests (attached)

- Incomplete Invalid
 Interference

- i. Acetone - Mnf Buth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4163 Date Calibrated 10/4/19
- ii. Isopropanol - Mnf Buth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N DR4162 Date Calibrated 10/7/19
- iii. Negative Control - Mnf Guth Lot 19301 Level 0.100 Exp 10/30/21
Simulator S/N SD1176 Date Calibrated 10/7/19

- Exceeded Attempts RFI

- Verify stylus is calibrated Verification of Calibration
 Reset Options Non-Drinking Subject Test (attached)
 Clear Memory Upload
 Remove tank prior to shut down Add Linearity Data to Spreadsheet

End Date 7/15/20

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/14/2020
Time: 08:48:35

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 = 45.7°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.70 V PASSED
(1.02 V - 2.38 V)
Cooler Voltage = 1.69 V PASSED
(1.00 V - 2.32 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 531 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.6 in

PUMP INFO

Flow Rate = 4.302 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.001 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 = 0.076 1.17% (0.00% - 4.00%) PASSED

Technician Screen

DATAMASTER dmt: 100376

Date: 07/14/2020
Time: 2:30 PM

Temperatures (°C)
Sample Cell: 49.2°C
Breath Tube: 46.1°C

Current Barometer 29.6 in
Volume (Ltr) 1.47

Settings
Lamp: 1.64 V
Bias: 80 V
Cooler: 1.66 V
Chopper: 526 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.027 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 03/24/2020
Time: 07:25:22

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: 1

Ca = 0.2000
CAL = 0.972167 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0065 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0743 0.0500 <= Xq < 0.2000
a21 = 1.172072 1.050 <= a21 < 1.300
a31 = 0.369043 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/14/2020
Time: 14:35:51

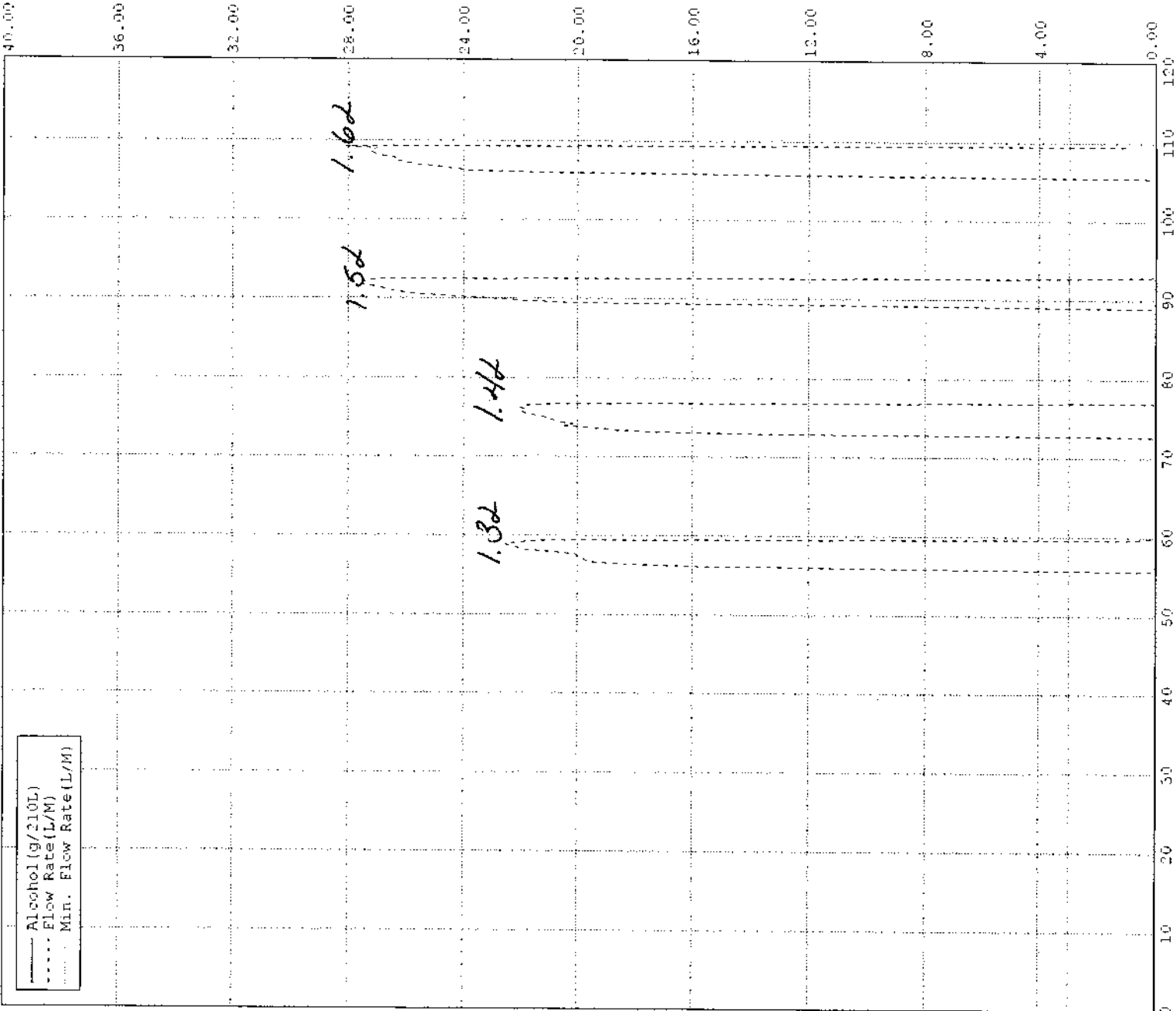
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.59: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	14:36
BLANK TEST	0.000	14:37
INTERNAL STANDARD	VERIFIED	14:37
EXTERNAL STANDARD	0.077	14:37
BLANK TEST	0.000	14:38
SUBJECT SAMPLE (Vol=1.56L)	0.000	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.077	14:41
BLANK TEST	0.000	14:42



LINEARITY CHECK

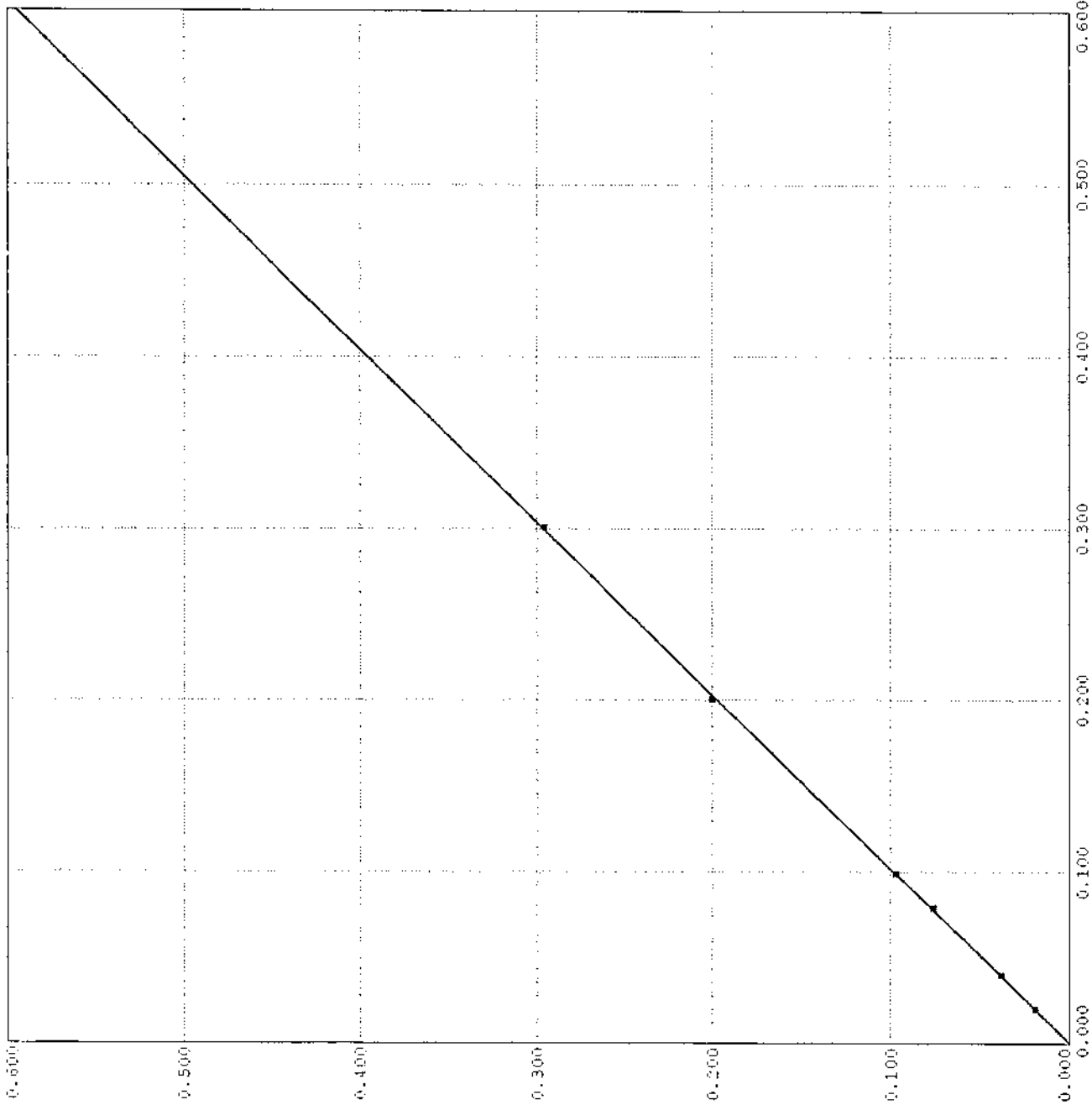
Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 07/14/2020
 Time: 15:10:18

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0200	0.0000
0.040	0.0394	0.0005
0.079	0.0772	0.0004
0.099	0.0982	0.0004
0.200	0.2010	0.0007
0.300	0.2964	0.0009

SLOPE = 0.992806
 R² = 0.999829



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

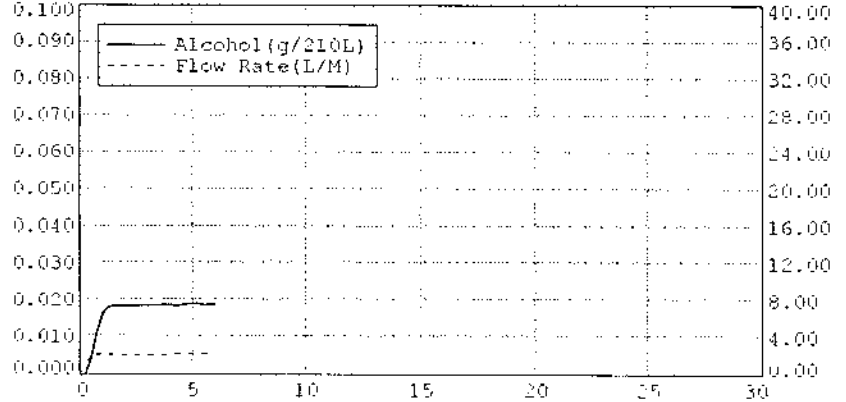
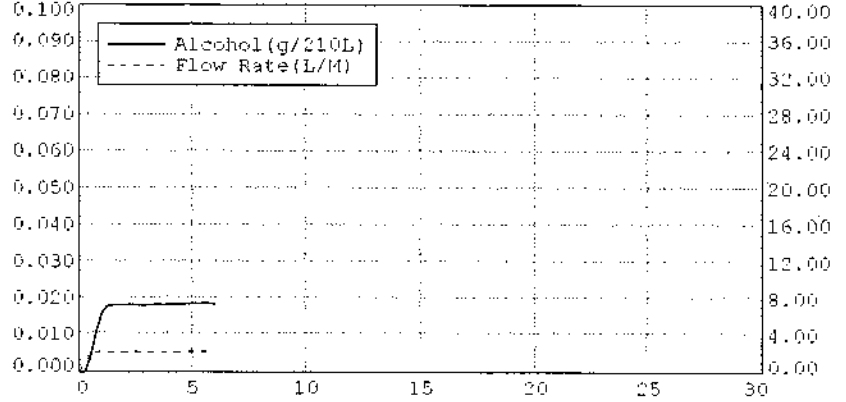
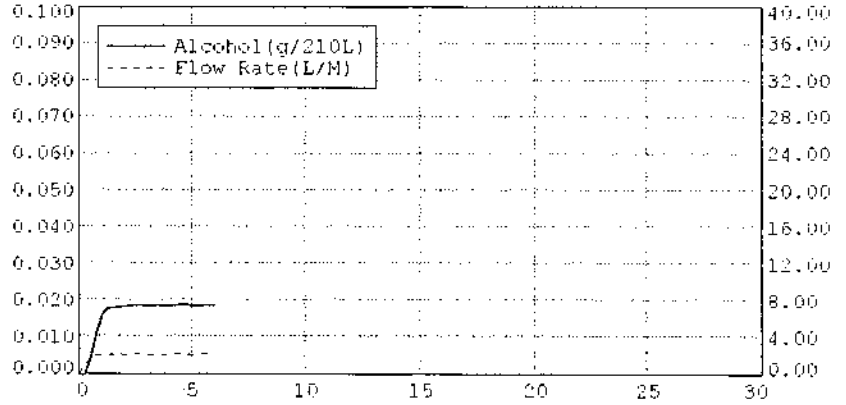
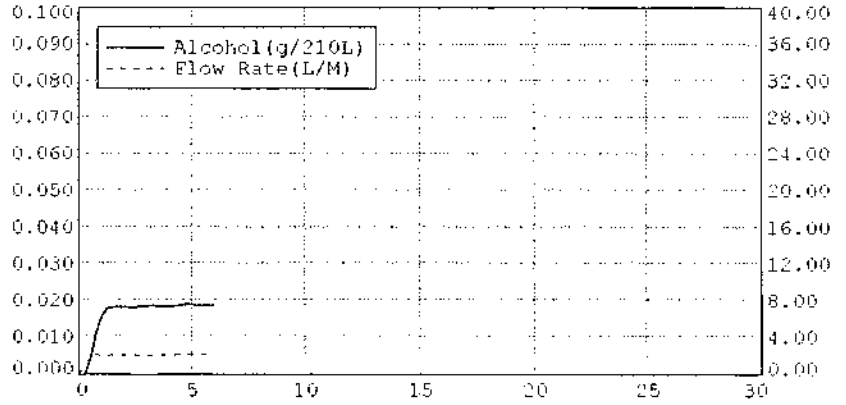
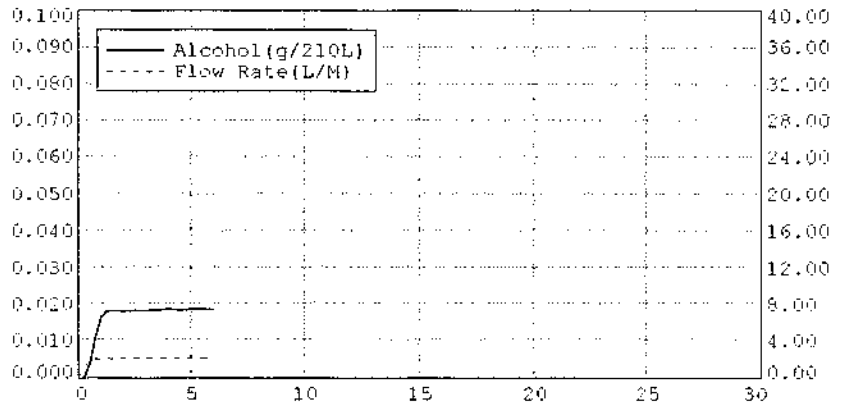
Date: 07/14/2020
 Time: 15:10:20

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.59: 0.020
 LOT #: AG928203
 EXPIRATION: 10/09/2021
 TANK PRESSURE: 840 psi

BLANK TEST	0.000	15:22
INTERNAL STANDARD	VERIFIED	15:22
EXTERNAL STANDARD	0.020	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.020	15:24
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.020	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.020	15:26
BLANK TEST	0.000	15:27
EXTERNAL STANDARD	0.020	15:27
BLANK TEST	0.000	15:28

Average = 0.0200
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

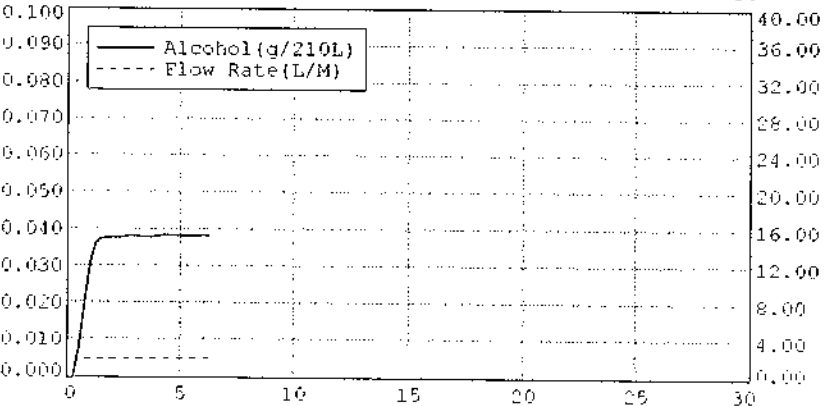
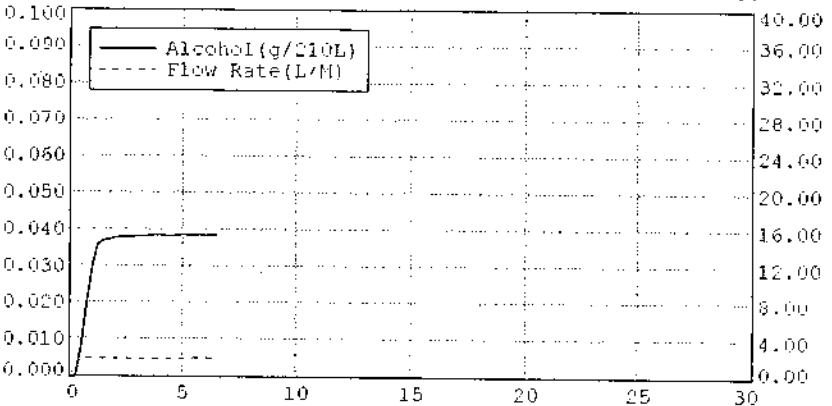
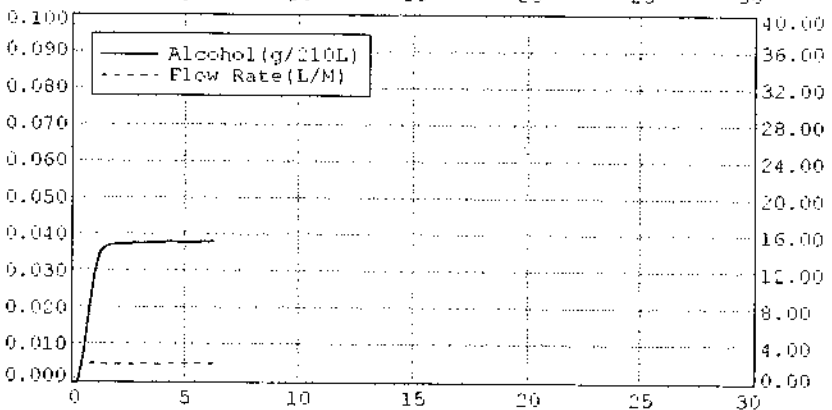
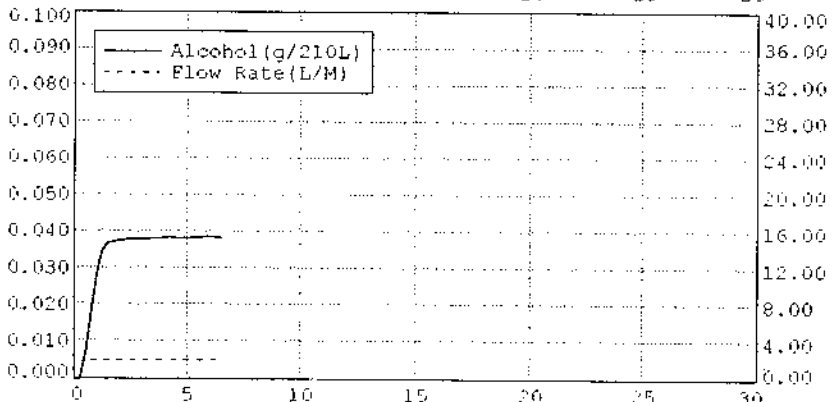
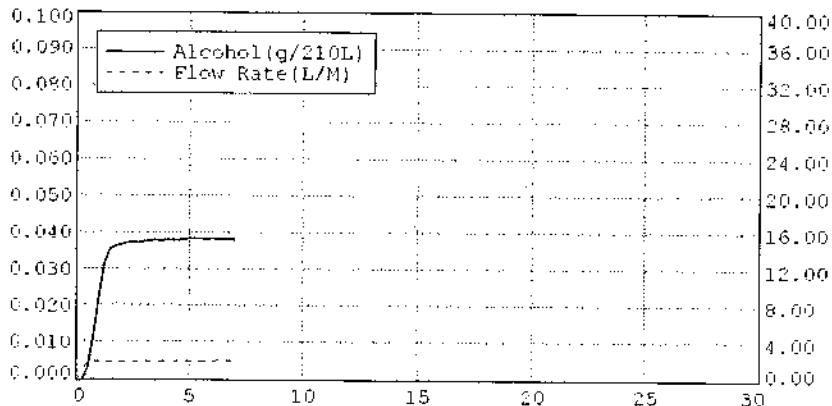
Date: 07/14/2020
 Time: 15:28:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.58: 0.040
 LOF #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 625 psi

BLANK TEST	0.000	15:30
INTERNAL STANDARD	VERIFIED	15:30
EXTERNAL STANDARD	0.040	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.039	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.039	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.040	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.039	15:35
BLANK TEST	0.000	15:35

Average = 0.0394
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

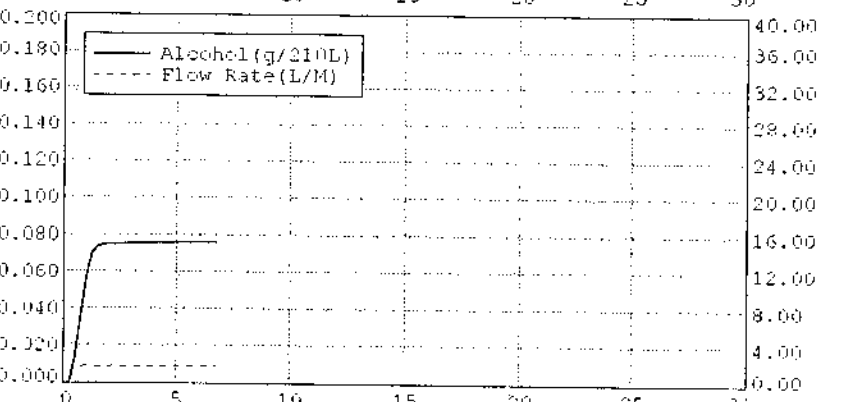
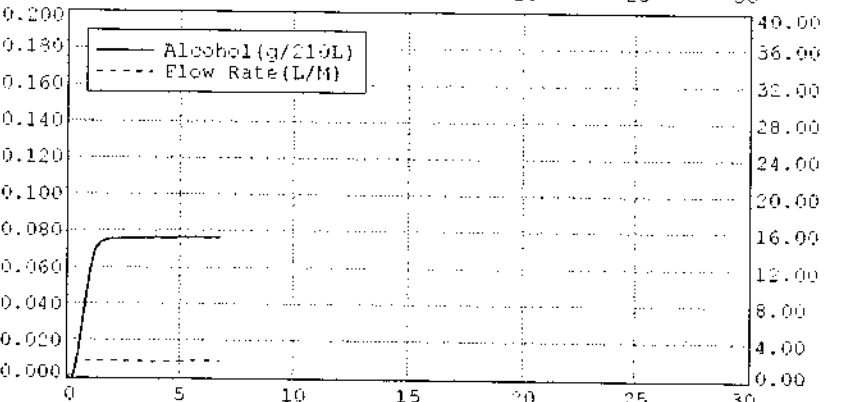
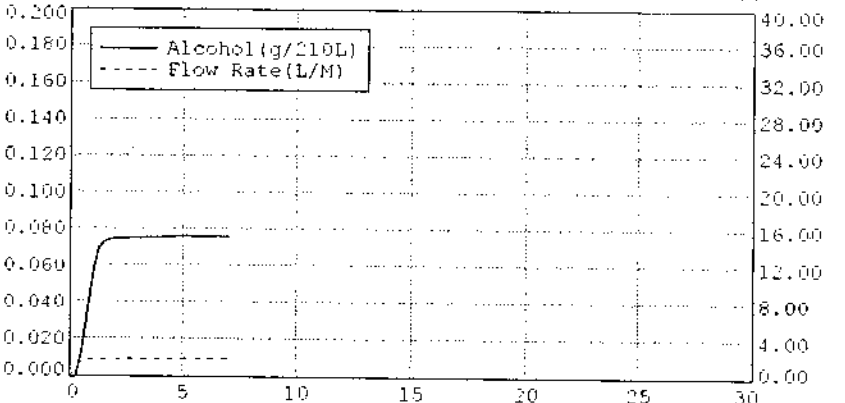
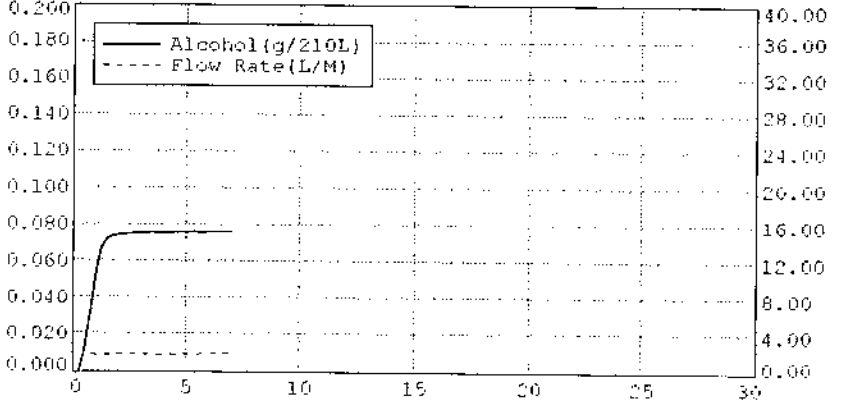
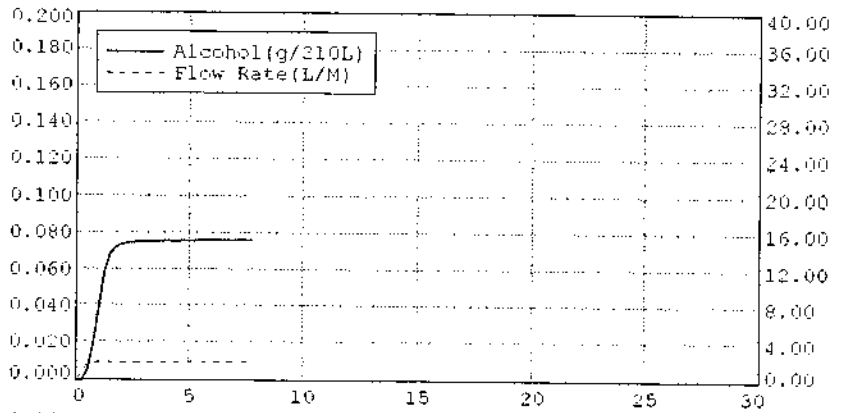
Alaska Department of Public Safety
 DATAMASTER dnt: 100376

Date: 07/14/2020
 Time: 15:36:22

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.59: 0.078 *0.078/0.100*
 LOT #: AG 26101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 404 psi

BLANK TEST	0.000	15:37
INTERNAL STANDARD	VERIFIED	15:37
EXTERNAL STANDARD	0.077	15:38
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.077	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.077	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.078	15:41
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.077	15:42
BLANK TEST	0.000	15:43

Average = 0.0772
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

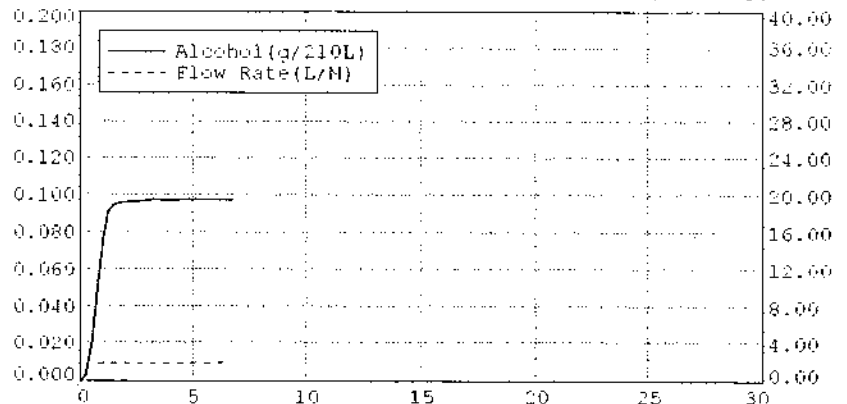
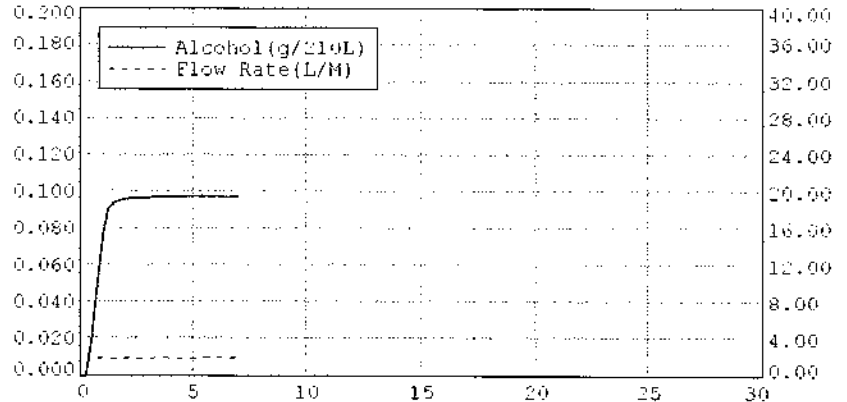
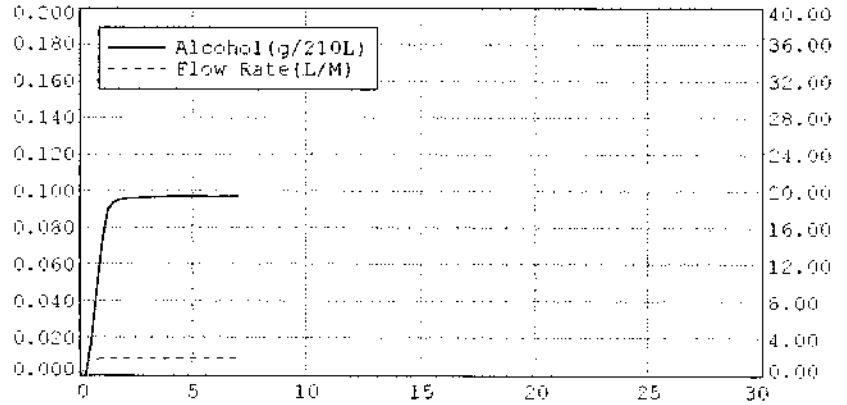
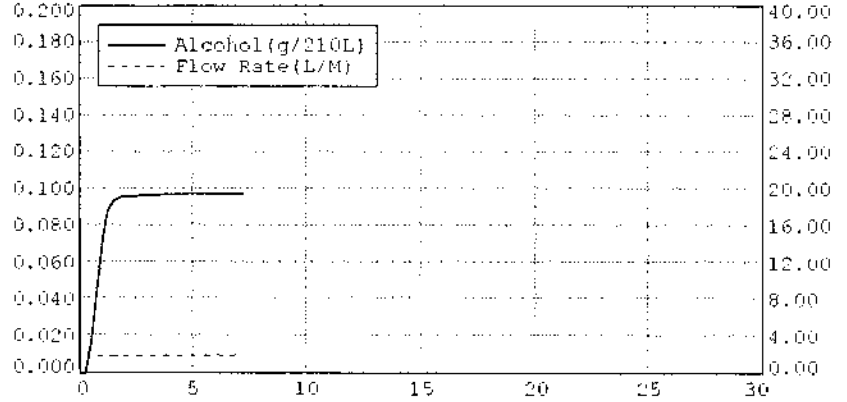
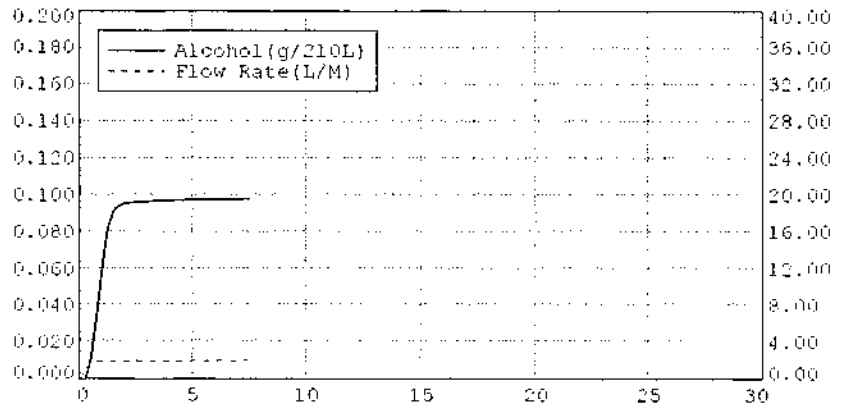
Date: 07/14/2020
 Time: 15:45:40

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.59: 0.099
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 423 psi

BLANK TEST	0.000	15:46
INTERNAL STANDARD	VERIFIED	15:46
EXTERNAL STANDARD	0.099	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.098	15:48
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.098	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.098	15:50
BLANK TEST	0.000	15:51
EXTERNAL STANDARD	0.098	15:51
BLANK TEST	0.000	15:52

Average = 0.0982
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

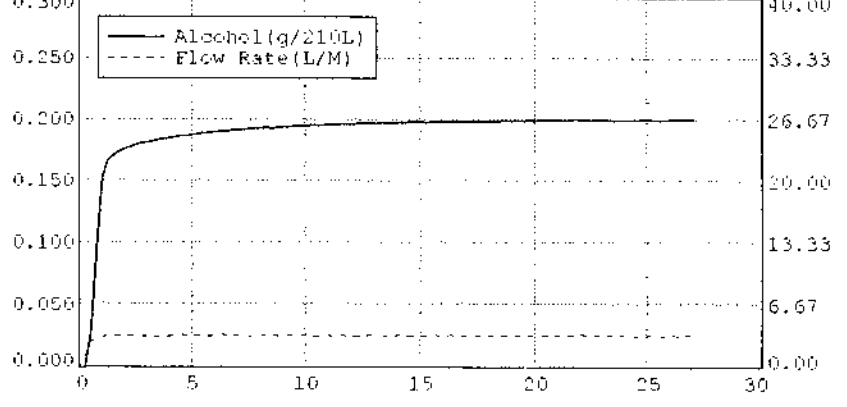
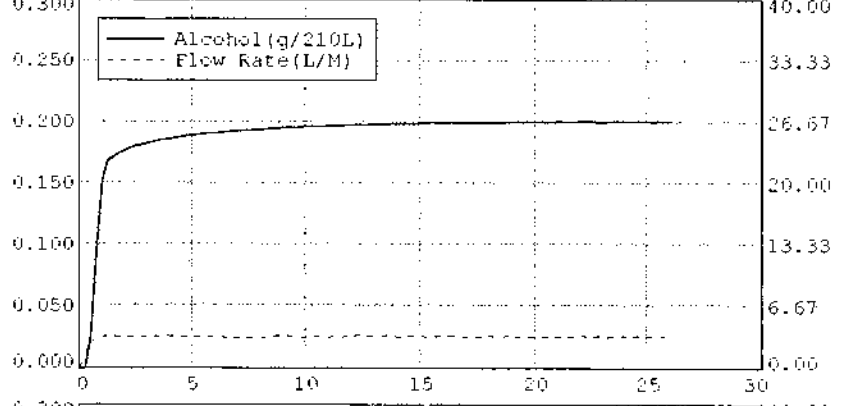
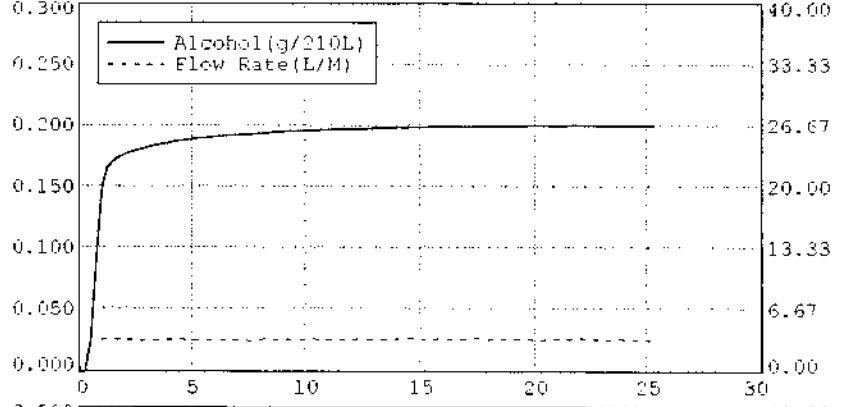
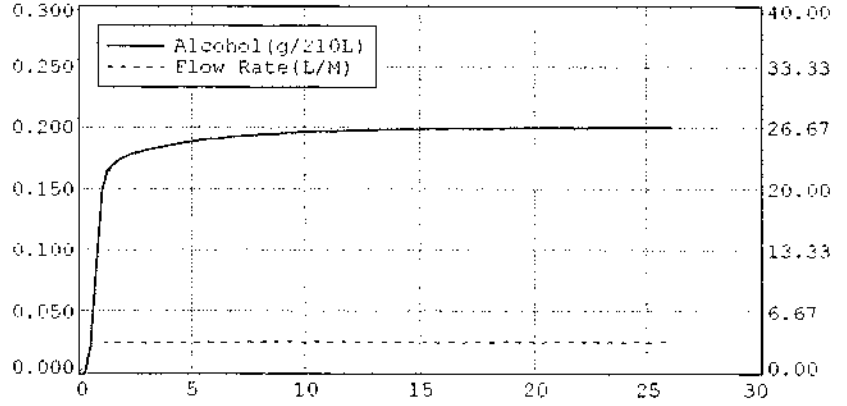
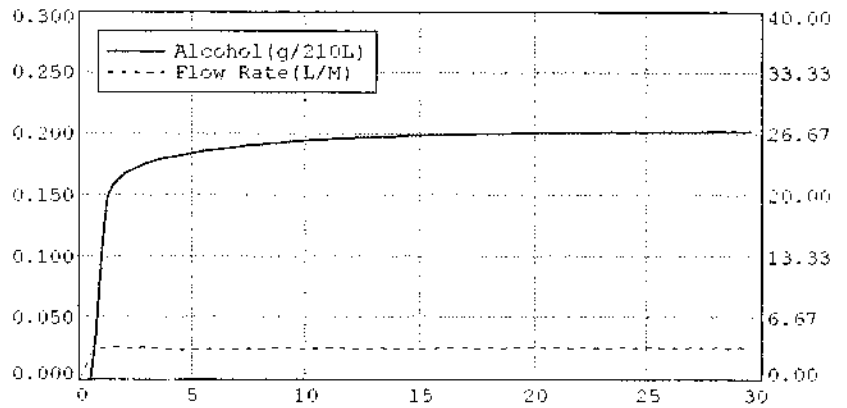
Alaska Department of Public Safety
 DATAMASTER dmt: 100376

Date: 07/14/2020
 Time: 15:52:53

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	15:54
INTERNAL STANDARD	VERIFIED	15:54
EXTERNAL STANDARD	0.202	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.201	15:56
BLANK TEST	0.000	15:57
EXTERNAL STANDARD	0.201	15:58
BLANK TEST	0.000	15:58
EXTERNAL STANDARD	0.201	15:59
BLANK TEST	0.000	16:00
EXTERNAL STANDARD	0.200	16:00
BLANK TEST	0.000	16:01

Average = 0.2010
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100376

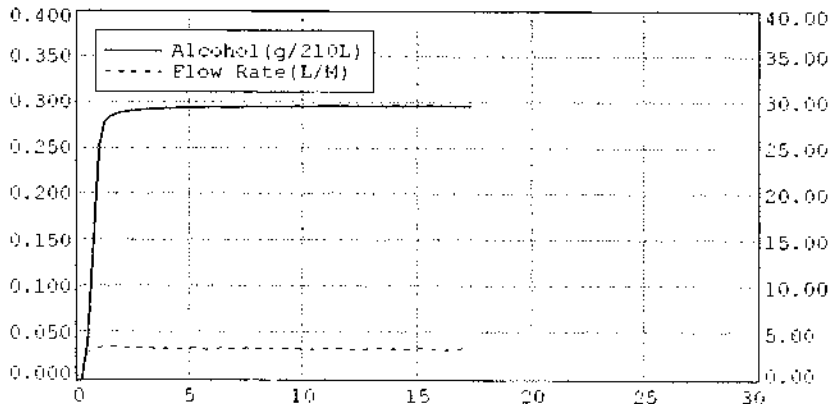
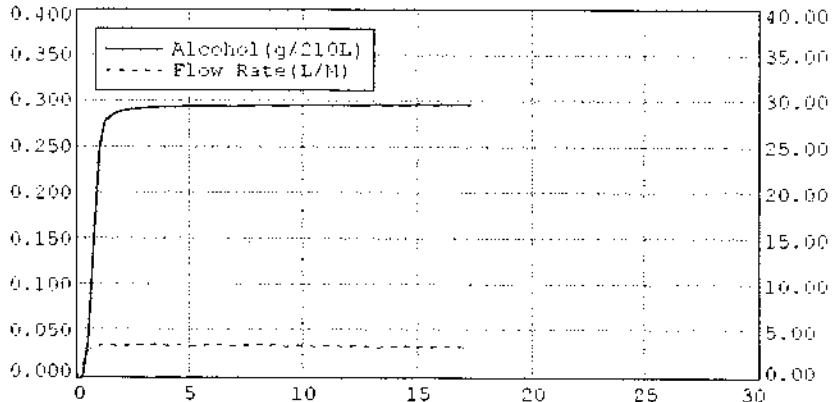
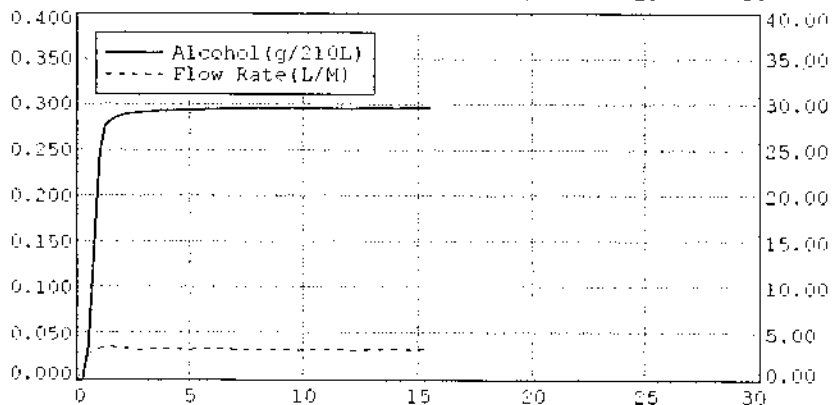
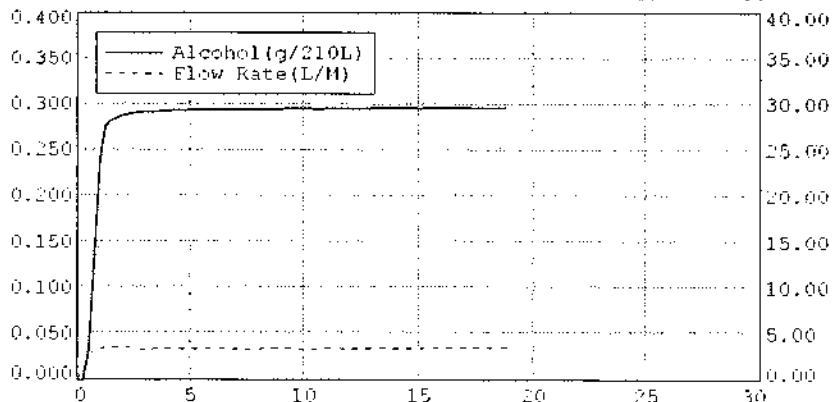
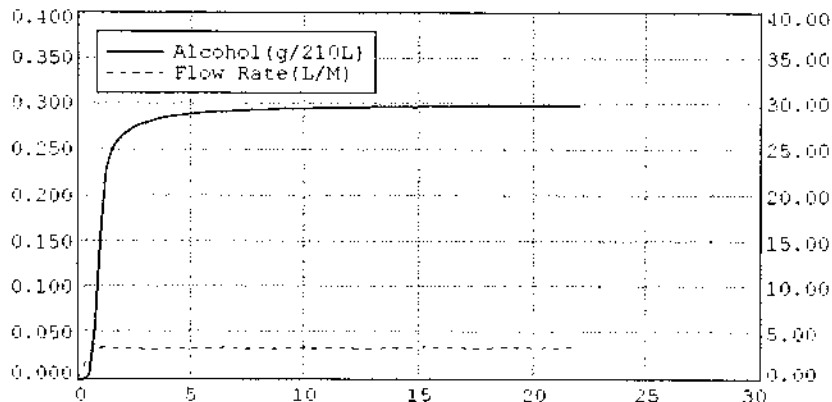
Date: 07/14/2020
 Time: 16:03:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 19330
 EXPIRATION: ~~10/13/2021~~
08/7/2020

BLANK TEST	0.000	16:04
INTERNAL STANDARD	VERIFIED	16:04
EXTERNAL STANDARD	0.298	16:05
BLANK TEST	0.000	16:06
EXTERNAL STANDARD	0.296	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.296	16:07
BLANK TEST	0.000	16:08
EXTERNAL STANDARD	0.296	16:09
BLANK TEST	0.000	16:10
EXTERNAL STANDARD	0.296	16:10
BLANK TEST	0.000	16:11

Average = 0.2964
 Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/14/2020
Time: 16:50:46

SUBJECT NAME:
TEST TEST

LICENSE #: INCOMPLETE
COB 7/17/20

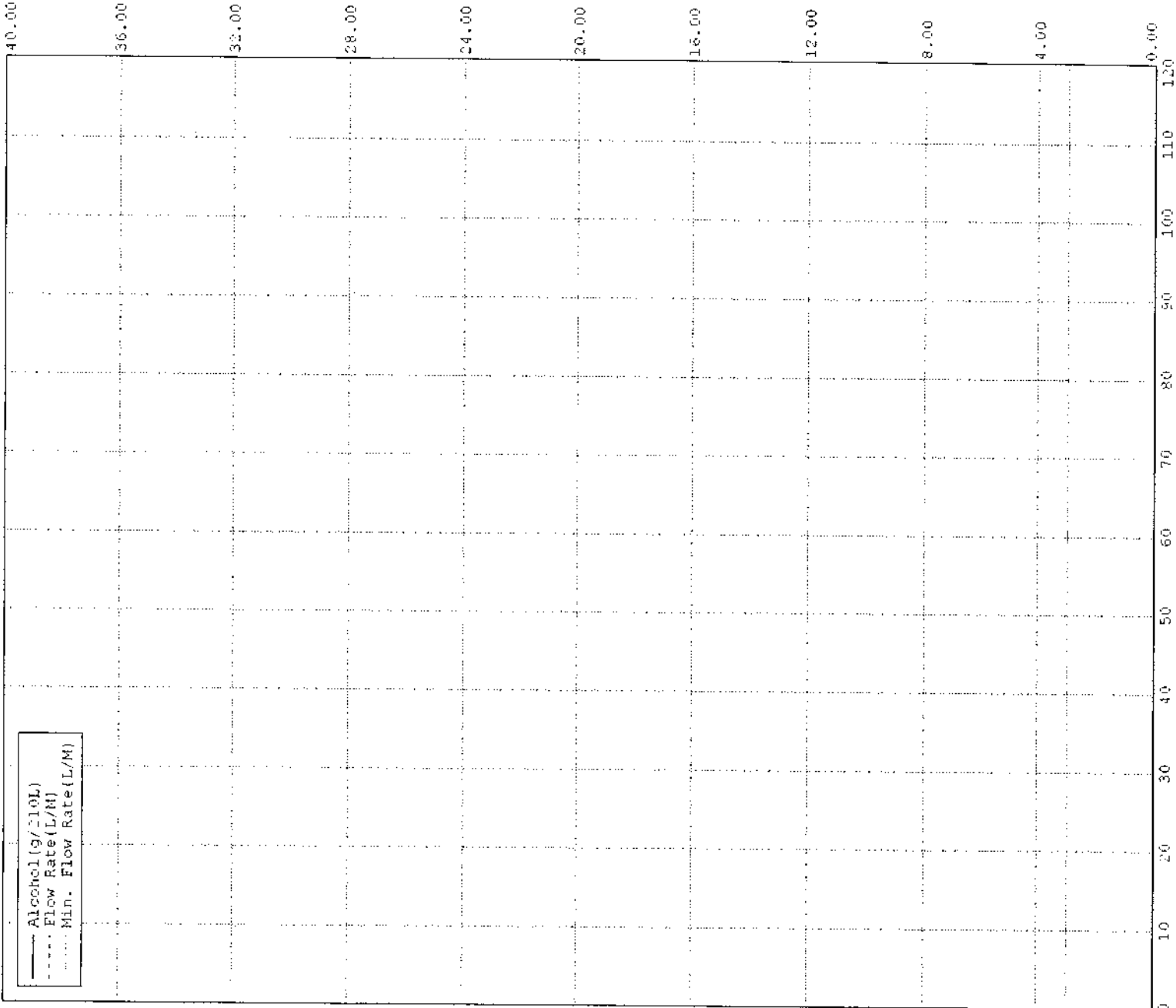
OPERATOR NAME:
COLLEEN S O'BRYANNT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.57: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 16:52
BLANK TEST 0.000 16:52
INTERNAL STANDARD VERIFIED 16:52
EXTERNAL STANDARD 0.077 16:53
BLANK TEST 0.000 16:53
SUBJECT SAMPLE INCOMPLETE 16:56



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/15/2020
Time: 07:30:09

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

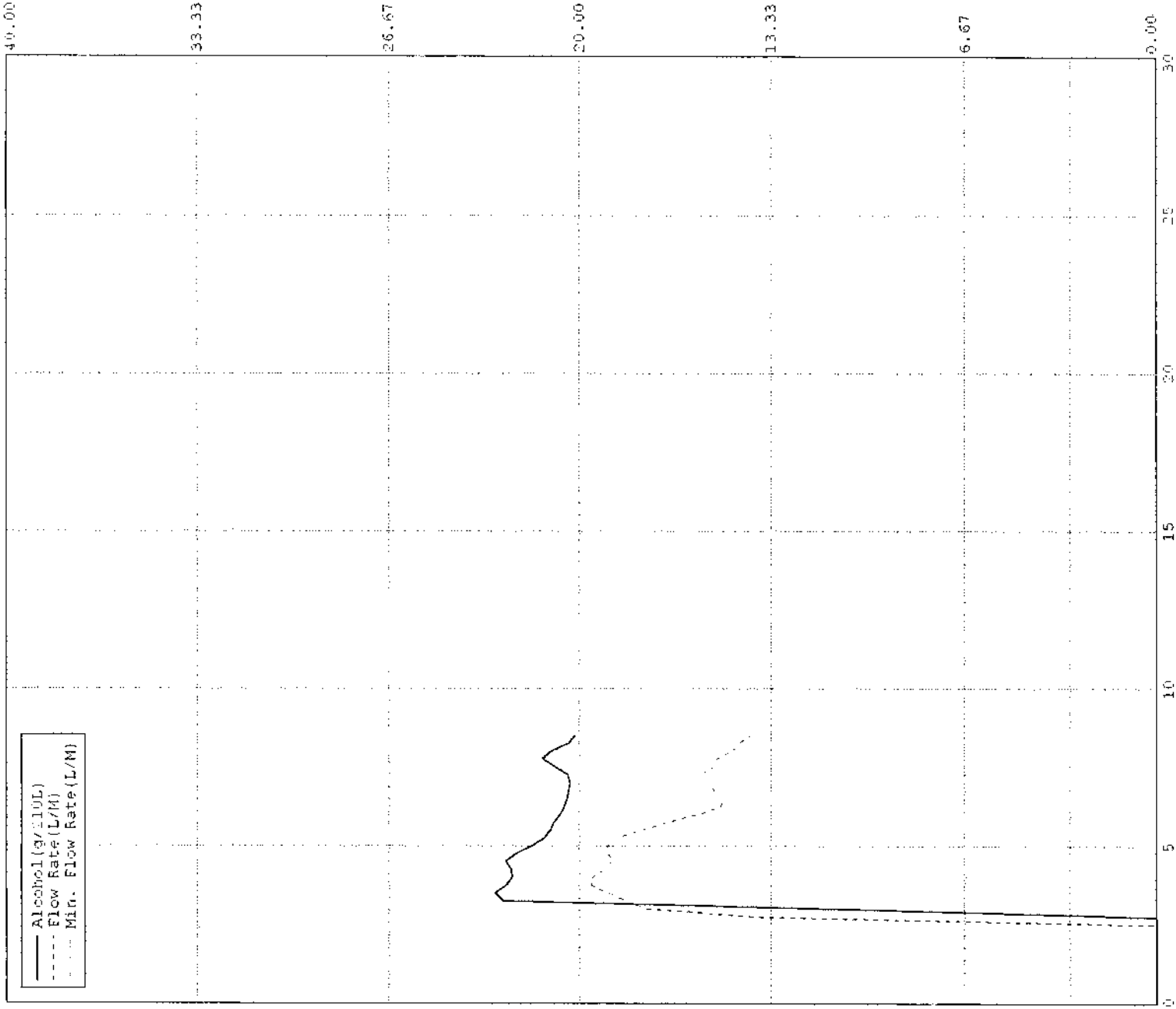
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	07:31
BLANK TEST	0.000	07:31
INTERNAL STANDARD	VERIFIED	07:31
EXTERNAL STANDARD	0.077	07:31
BLANK TEST	0.000	07:32
SUBJECT SAMPLE	INVALID	07:33



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/15/2020
Time: 07:40:14

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

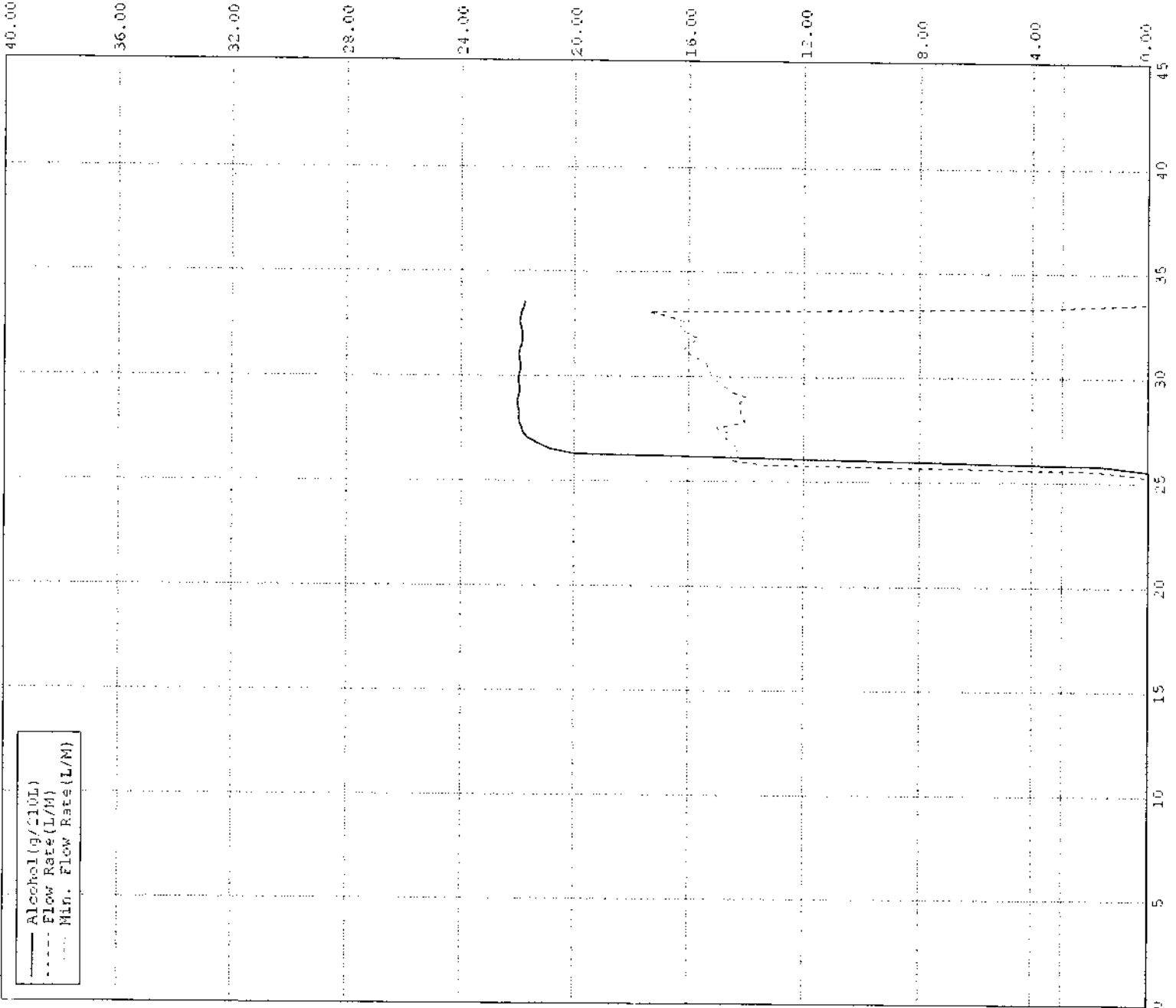
DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.63: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	07:44
BLANK TEST	0.000	07:44
INTERNAL STANDARD	VERIFIED	07:44
Xq = 0.076 (1.75%)		
EXTERNAL STANDARD	0.077	07:45
X[1] = 0.0774 (-0.0009) (0.0005)		
BLANK TEST	0.000	07:46
SUBJECT SAMPLE	XXX	07:46
X[1] = 0.1085 (-0.0136) (-0.0004)		

Interference Detected

Filter 2 avg = -0.0008
Filter 3 avg = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/15/2020
Time: 07:49:06

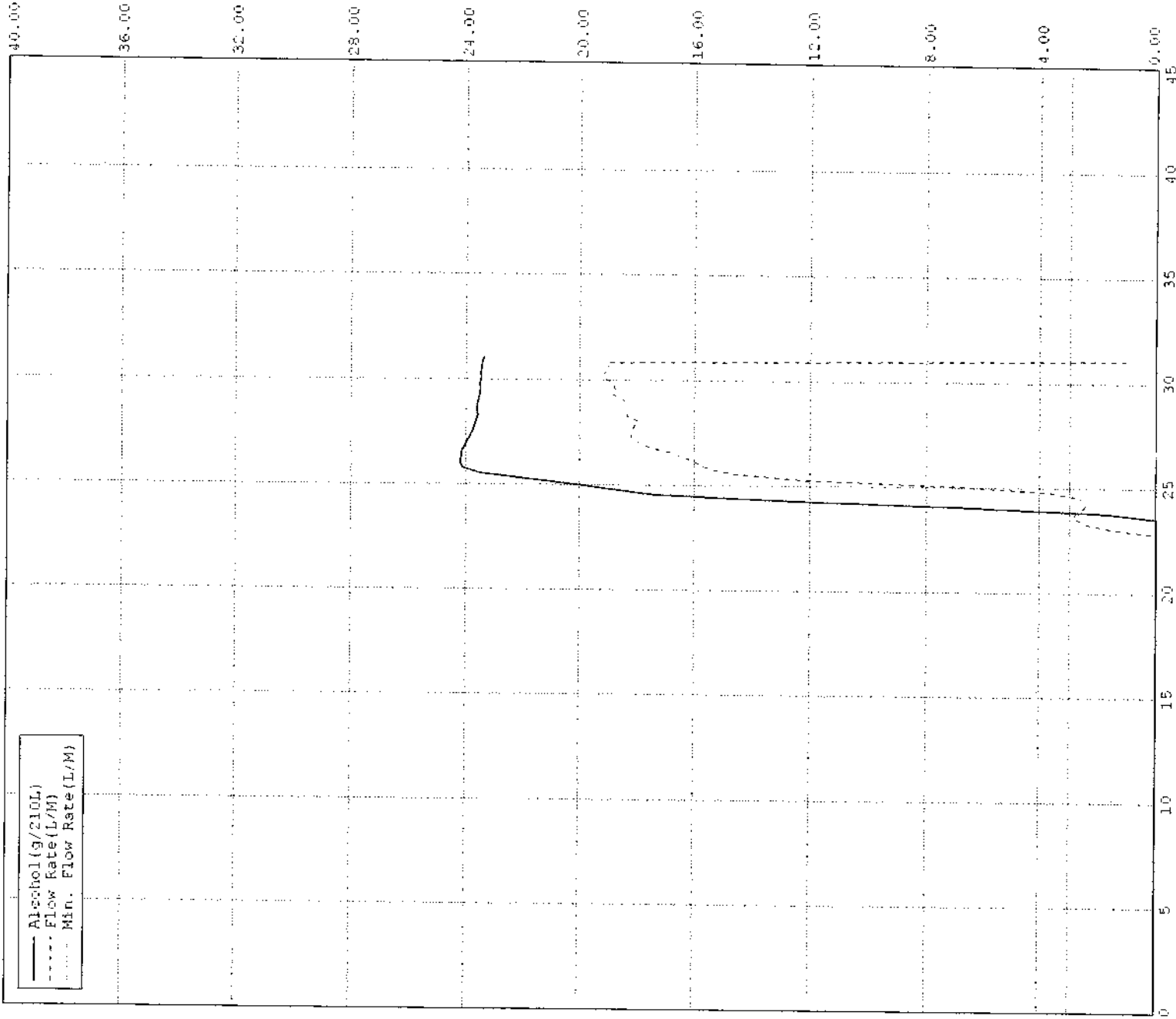
SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	07:50
BLANK TEST	0.000	07:50
INTERNAL STANDARD	VERIFIED	07:50
$Xq = 0.076$ (1.86%)		
EXTERNAL STANDARD	0.078	07:50
$X[1] = 0.0775$ (-0.0007) (0.0016)		
BLANK TEST	0.000	07:51
SUBJECT SAMPLE	XXX	07:52
$X[1] = 0.1160$ (-0.0272) (0.0006)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/15/2020
Time: 07:54:40

SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

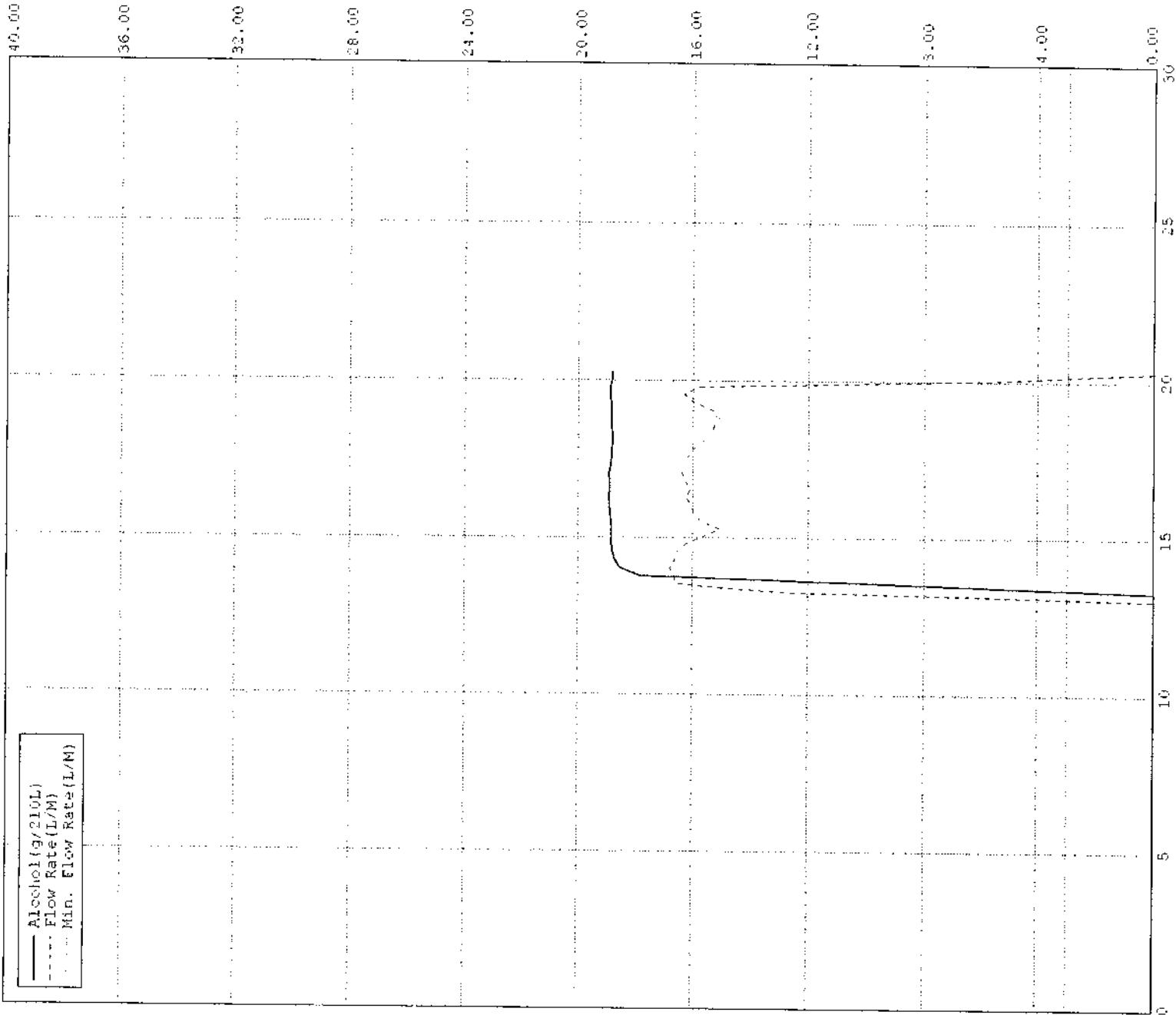
OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	07:55
BLANK TEST	0.000	07:55
INTERNAL STANDARD	VERIFIED	07:56
Xq = 0.076 (2.33%)		
EXTERNAL STANDARD	0.077	07:56
X[1] = 0.0773 (-0.0006) (0.0016)		
BLANK TEST	0.000	07:57
SUBJECT SAMPLE (Vol=1.81L)	0.094	07:57
X[1] = 0.0941 (0.0013) (-0.0002)		
BLANK TEST	0.000	07:58
EXTERNAL STANDARD	0.077	07:58
X[1] = 0.0770 (-0.0010) (0.0007)		
BLANK TEST	0.000	07:59



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100376

Date: 07/15/2020
Time: 07:13:27

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

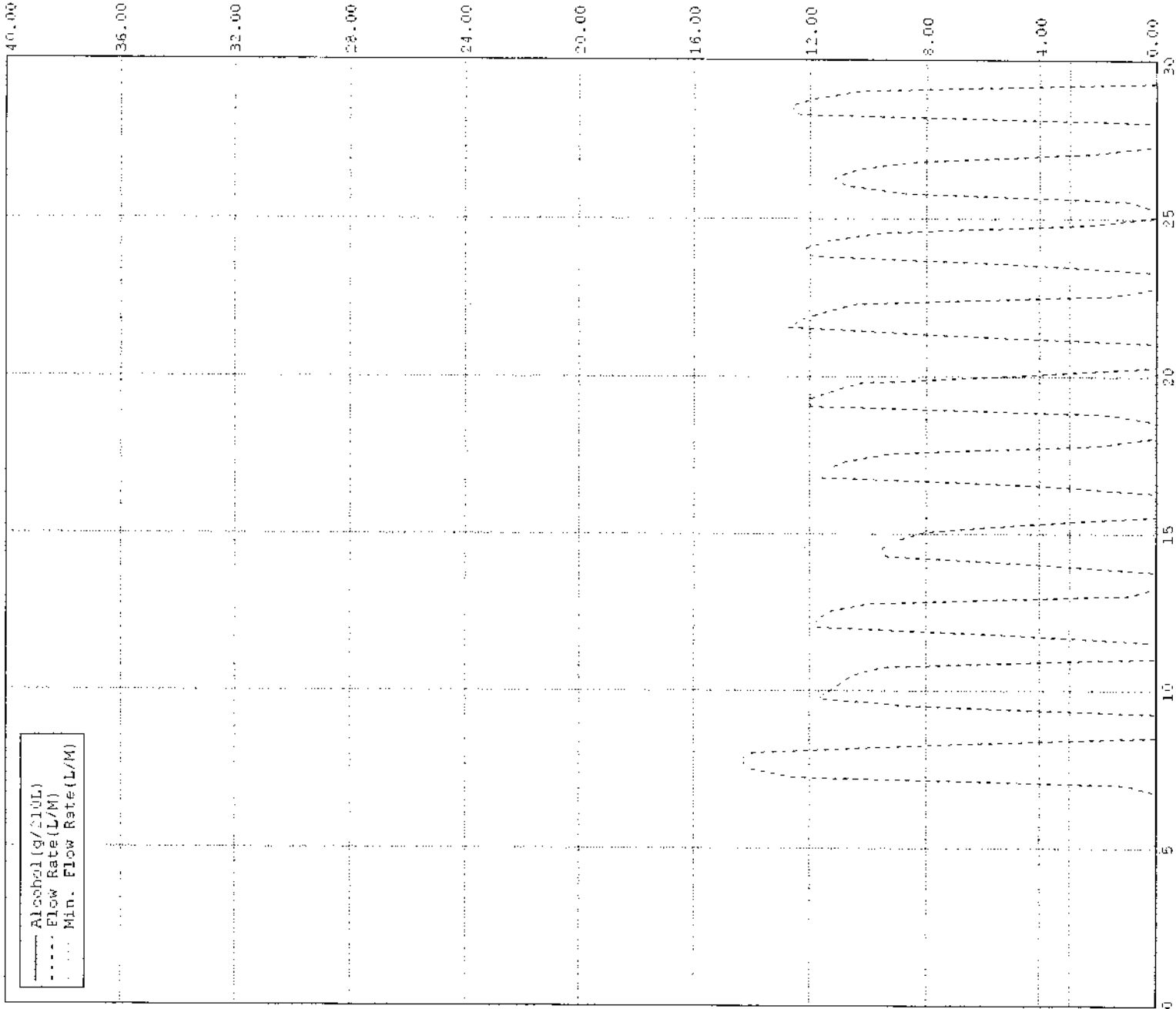
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	07:14
BLANK TEST	0.000	07:14
INTERNAL STANDARD	VERIFIED	07:14
EXTERNAL STANDARD	0.077	07:15
BLANK TEST	0.000	07:15
SUBJECT SAMPLE	XXX	07:16

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/15/2020
Time: 07:34:39

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

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

DEPT/AGENCY:
AAA1

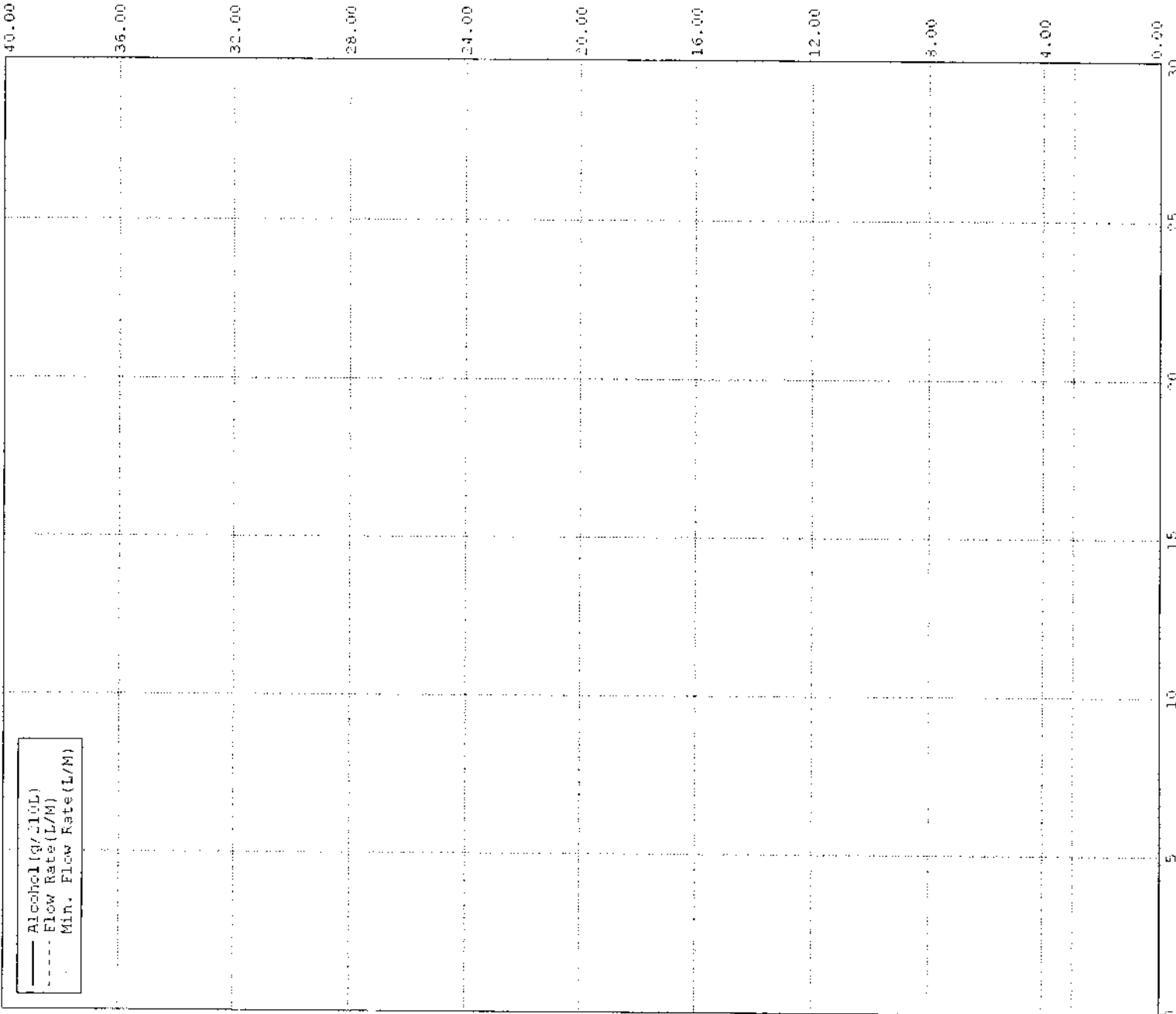
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 07:35
BLANK TEST 0.000 07:35
INTERNAL STANDARD VERIFIED 07:35
EXTERNAL STANDARD 0.077 07:36
BLANK TEST 0.000 07:37

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100376

Date: 07/15/2020
Time: 08:13:34

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.64: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	08:15
BLANK TEST	0.000	08:15
INTERNAL STANDARD	VERIFIED	08:15
EXTERNAL STANDARD	0.078	08:15
BLANK TEST	0.000	08:16
SUBJECT SAMPLE (Vol=2.16L)	0.000	08:16
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.078	08:18
BLANK TEST	0.000	08:18

