

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 100417 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 Aargas Lot AG 928203 Exp 10/9/21

ii. 0.040g/210L Mnf Aargas Lot AG 915607 Exp 6/5/21

iii. 0.080g/210L Mnf Aargas Lot AG 826101 Exp 9/18/20

iv. 0.100g/210L Mnf Aargas Lot AG 924701 Exp 9/4/21

v. 0.200g/210L Mnf Both Lot 19200 Exp 8/6/21

vi. Simulator S/N DR4177 Date Calibrated 10/8/19

0.300g/210L Mnf Both Lot 19330 Exp 10/13/21

Simulator S/N SD1200 Date Calibrated 10/8/19

087/20/20

Functional Tests (attached)

Incomplete

Invalid

Interference

i. Acetone - Mnf Both Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N DR4163 Date Calibrated 10/4/19

ii. Isopropanol - Mnf Both Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N DR4162 Date Calibrated 10/7/19

iii. Negative Control - Mnf Both Lot 19301 Level 0.100 Exp 10/30/21

Simulator S/N SD1176 Date Calibrated 10/7/19

087/20/20

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: 100417

Date: 07/14/2020
Time: 12:51:22

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 = 48.0°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.89 V PASSED
(1.13 V - 2.65 V)
Cooler Voltage = 1.89 V PASSED
(1.13 V - 2.65 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 524 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.5 in

PUMP INFO

Flow Rate = 4.905 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 = 0.094 0.56% (0.00% - 4.00%)

Technician Screen

DATAMASTER dmt: 100417

Date: 07/14/2020
Time: 2:40 PM

Temperatures (°C)

Sample Cell: 49.6°C
Breath Tube: 47.1°C

Current Barometer 29.6 in
Volume (Ltr) 1.45

Settings

Lamp: 1.89 V
Bias: 80 V
Cooler: 1.78 V
Chopper: 522 Hz

Voltages (V)

Flow: 1.03 V
Detector: 0.004 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 03/25/2020
Time: 05:59:25

OPERATOR NAME:
INTOX I METERS
CERTIFICATE #: 1

Ca = 0.2000
CAL = 0.972760 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0044 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.0941 0.0500 <= Xq < 0.2000
a21 = 1.147054 1.050 <= a21 < 1.300
a31 = 0.516811 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100417

Date: 07/14/2020
Time: 14:49:57

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

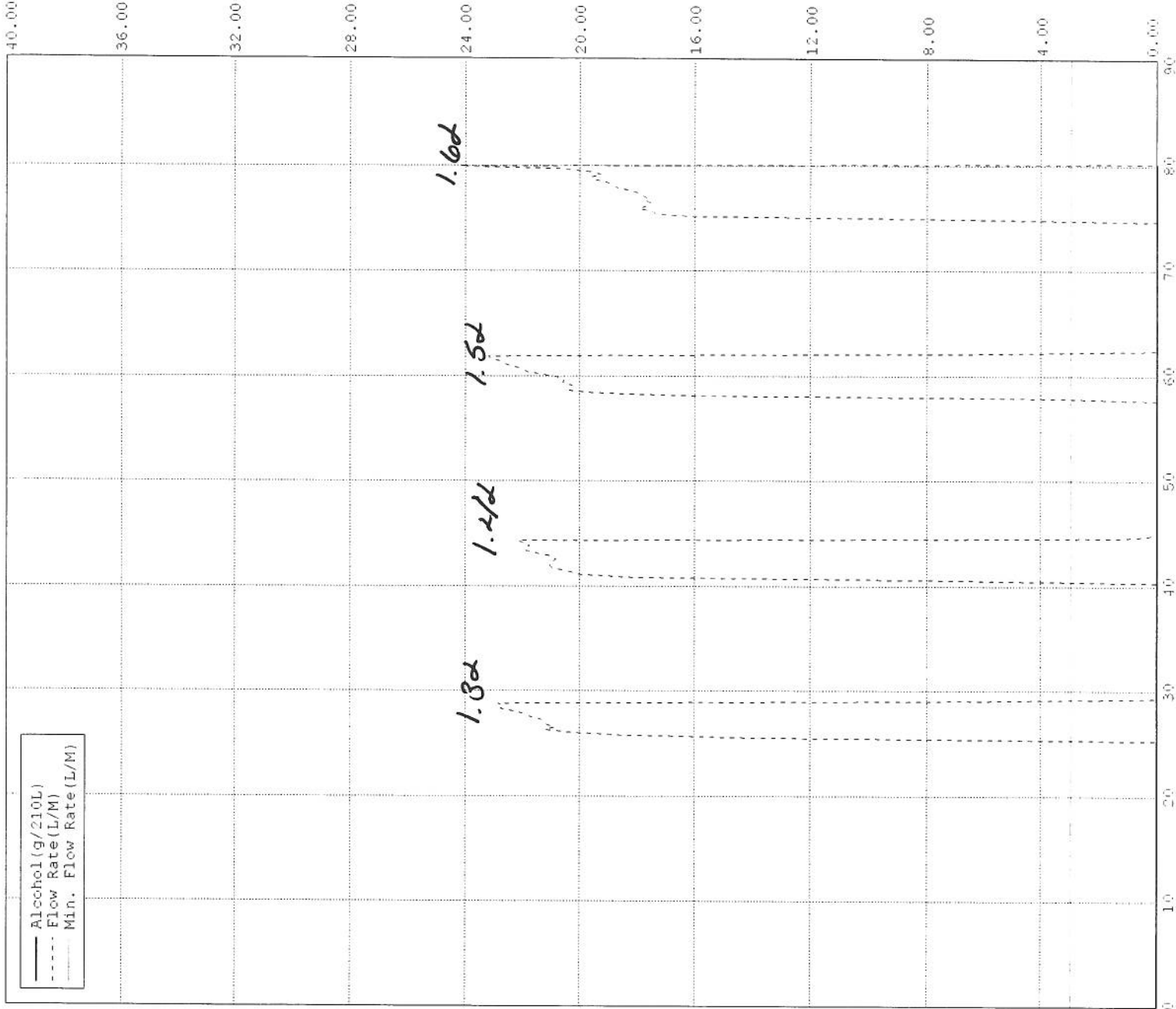
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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	14:50
BLANK TEST	0.000	14:51
INTERNAL STANDARD	VERIFIED	14:51
EXTERNAL STANDARD	0.079	14:51
BLANK TEST	0.000	14:52
SUBJECT SAMPLE (Vol=1.59L)	0.000	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.079	14:54
BLANK TEST	0.000	14:55



LINEARITY CHECK

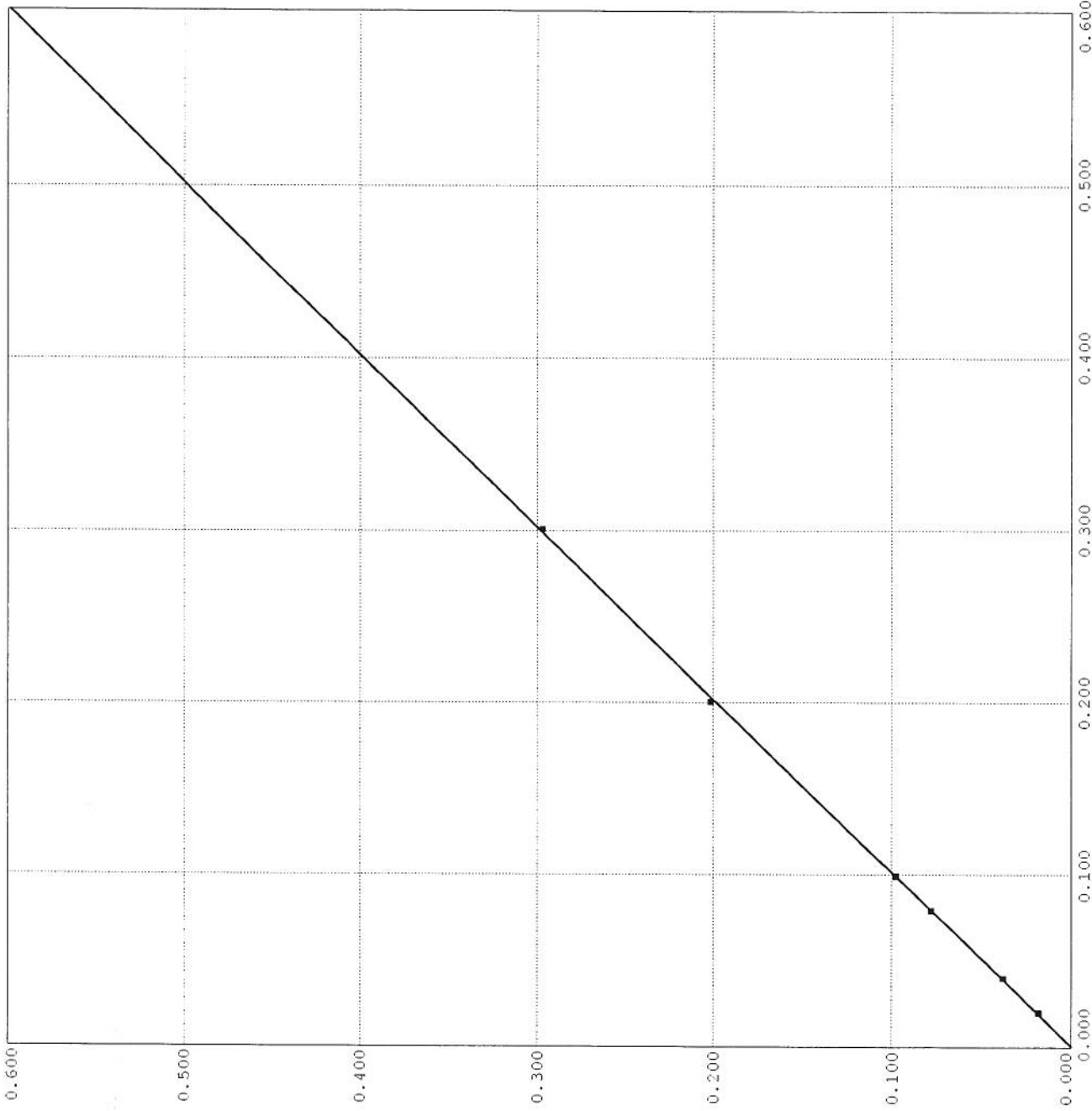
 Alaska Department of Public Safety
 DATAMASTER dmt: 100417

Date: 07/14/2020
 Time: 15:30:36

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0190	0.0000
0.040	0.0392	0.0004
0.079	0.0790	0.0000
0.099	0.0988	0.0004
0.200	0.2024	0.0009
0.300	0.2976	0.0005

SLOPE = 0.998851
 R² = 0.999782



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100417

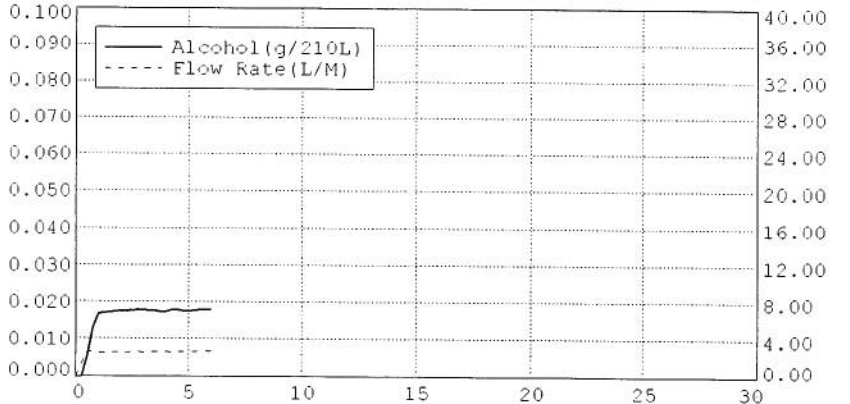
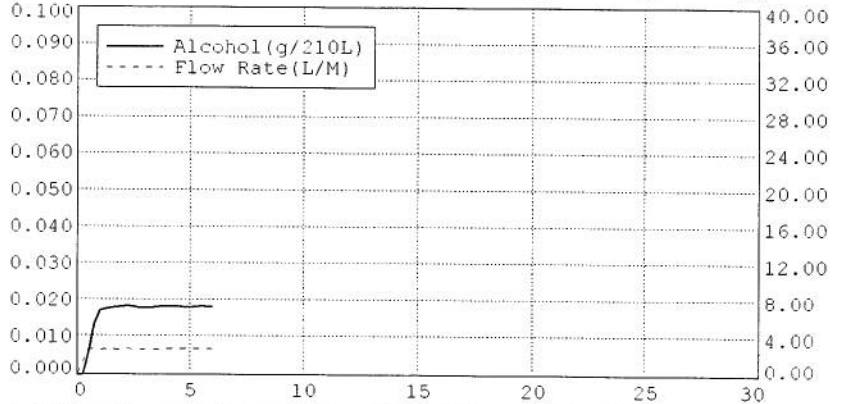
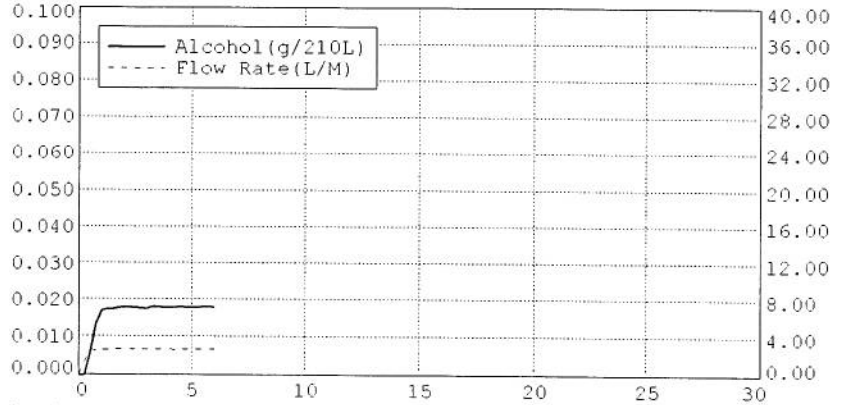
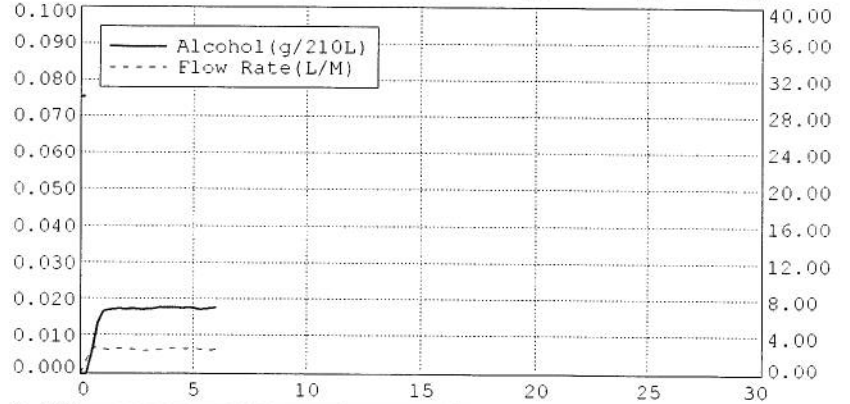
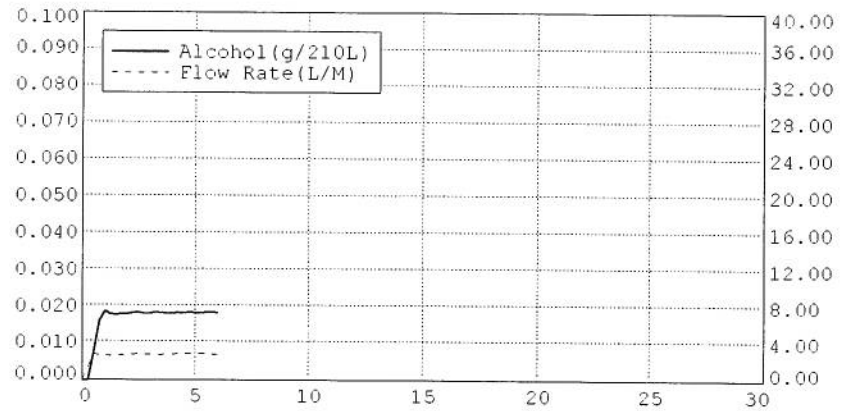
Date: 07/14/2020
Time: 15:30:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.59: 0.020
LOT #: AG928203
EXPIRATION: 10/09/2021
TANK PRESSURE: 834 psi

BLANK TEST	0.000	15:37
INTERNAL STANDARD	VERIFIED	15:37
EXTERNAL STANDARD	0.019	15:37
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.019	15:38
BLANK TEST	0.000	15:39
EXTERNAL STANDARD	0.019	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.019	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.019	15:42
BLANK TEST	0.000	15:42

Average = 0.0190
Std Dev = 0.0000



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100417

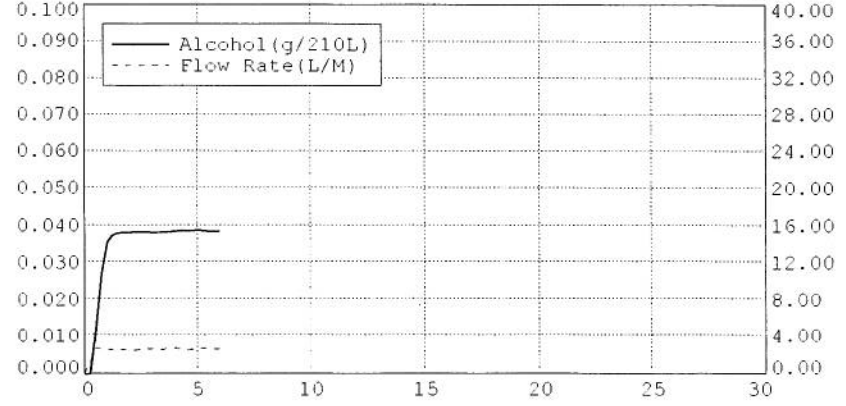
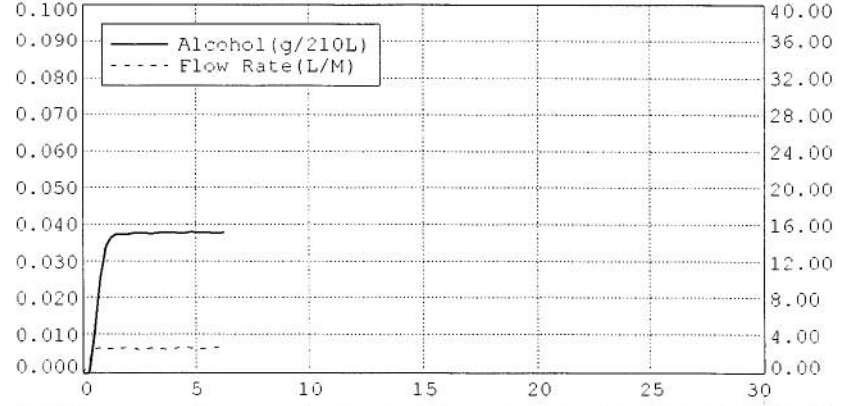
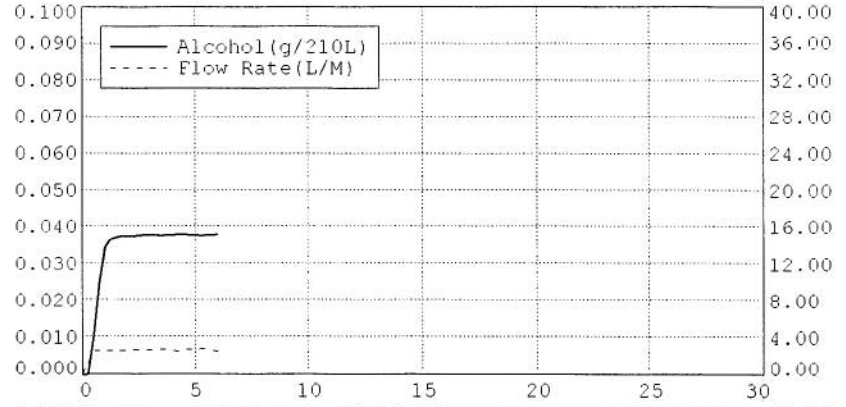
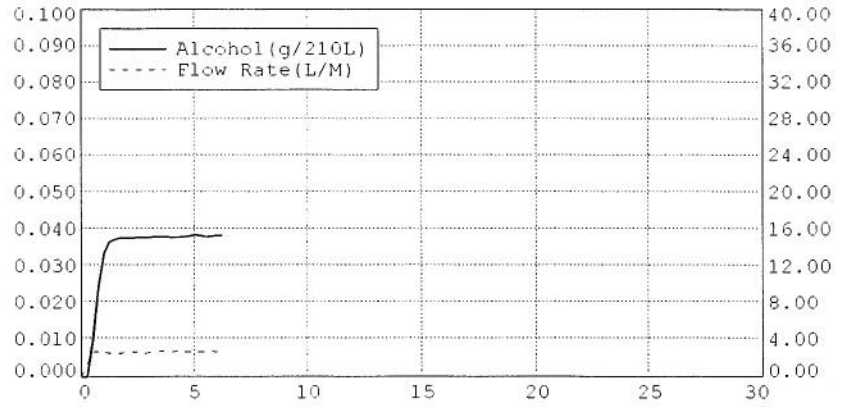
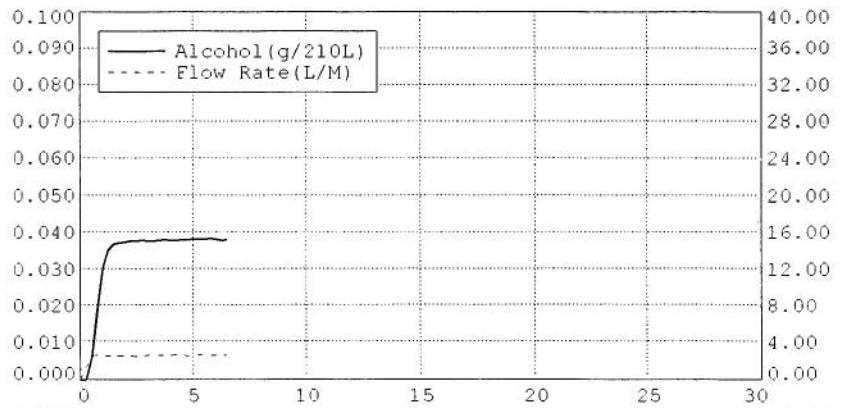
Date: 07/14/2020
 Time: 15:43:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.59: 0.040
 LOT #: AG915607
 EXPIRATION: 06/05/2021
 TANK PRESSURE: 613 psi

BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.039	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.039	15:46
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.039	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.039	15:48
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.040	15:49
BLANK TEST	0.000	15:50

Average = 0.0392
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100417

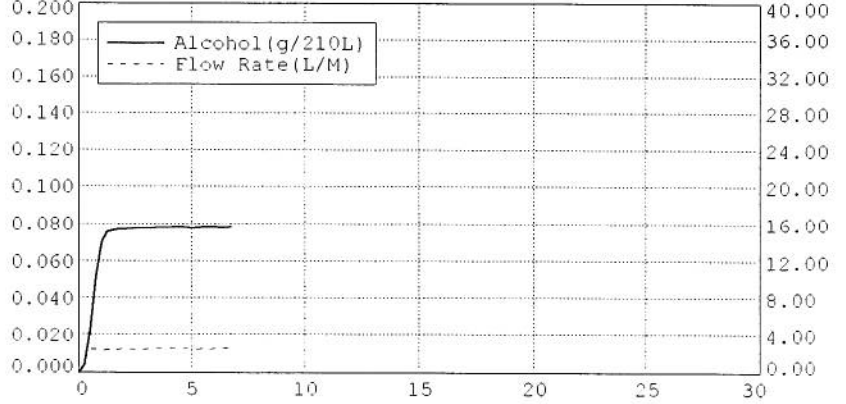
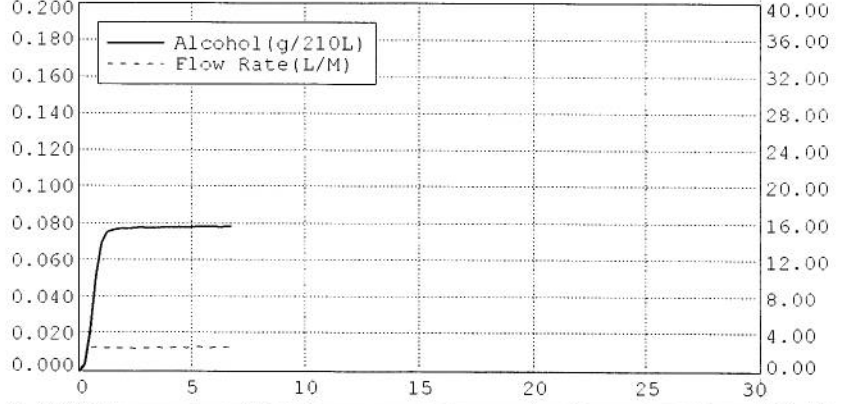
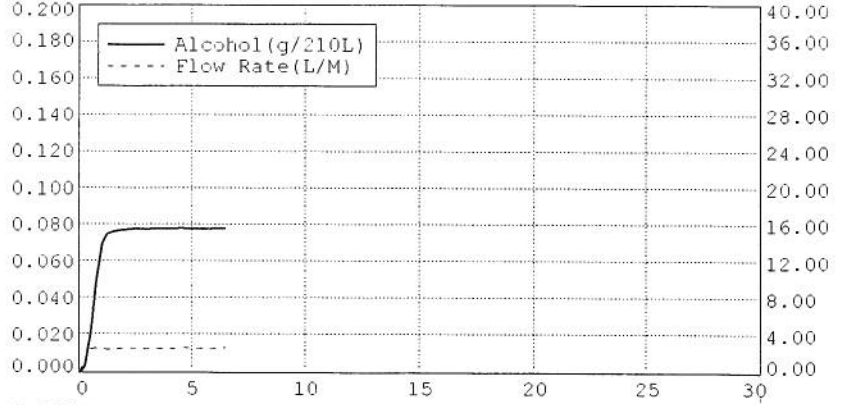
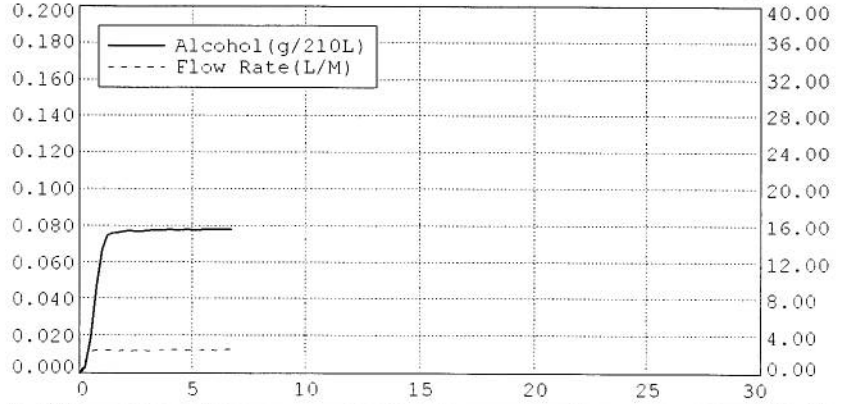
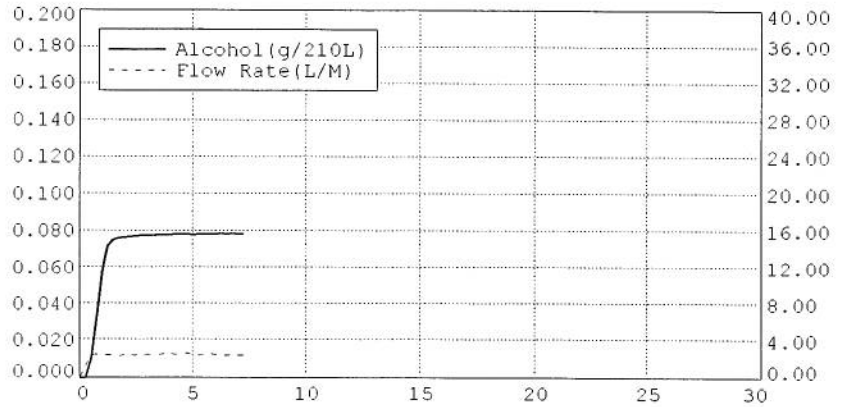
Date: 07/14/2020
 Time: 15:53:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.60: 0.079
 LOT #: AG826101
 EXPIRATION: 09/18/2020
 TANK PRESSURE: 291 psi

BLANK TEST	0.000	15:54
INTERNAL STANDARD	VERIFIED	15:54
EXTERNAL STANDARD	0.079	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.079	15:56
BLANK TEST	0.000	15:57
EXTERNAL STANDARD	0.079	15:57
BLANK TEST	0.000	15:58
EXTERNAL STANDARD	0.079	15:58
BLANK TEST	0.000	15:59
EXTERNAL STANDARD	0.079	15:59
BLANK TEST	0.000	16:00

Average = 0.0790
 Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100417

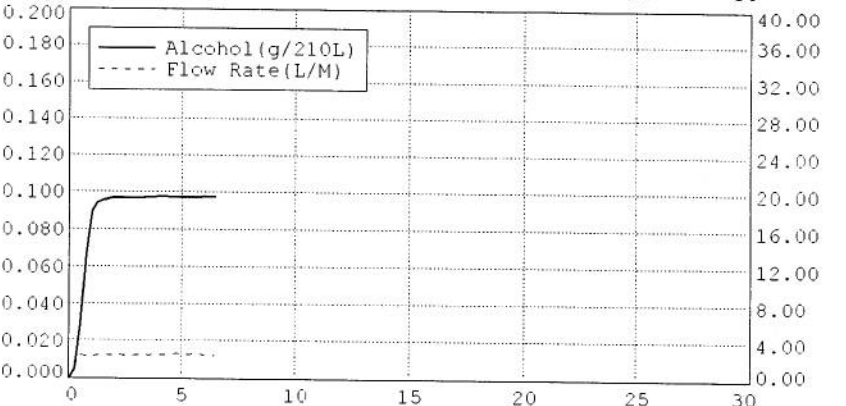
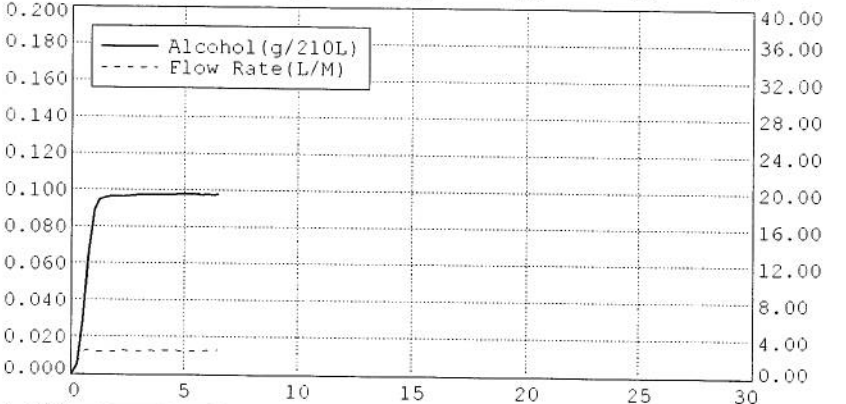
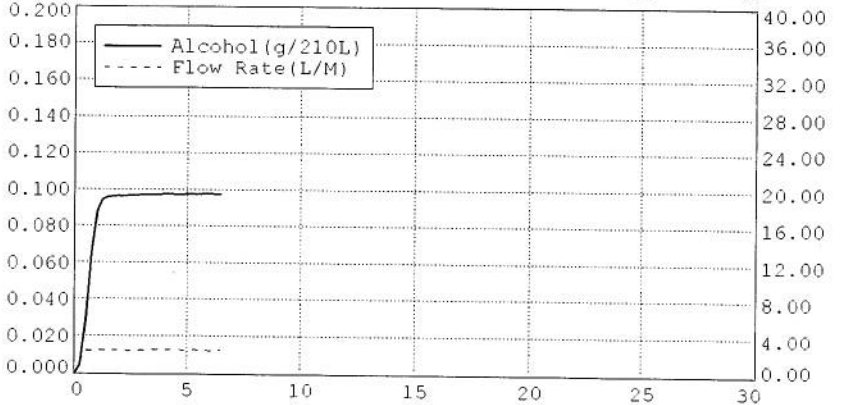
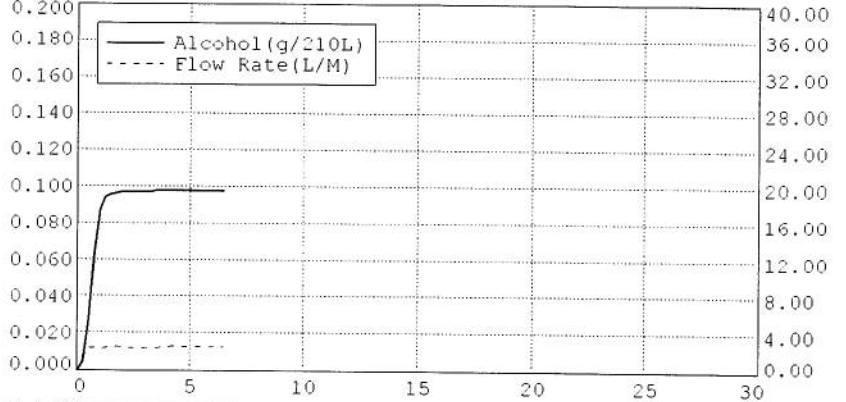
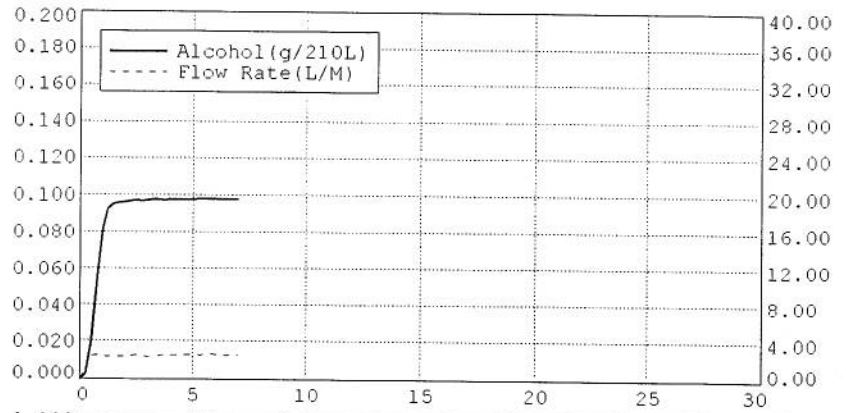
Date: 07/14/2020
 Time: 16:01:24

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.60: 0.099
 LOT #: AG924701
 EXPIRATION: 09/04/2021
 TANK PRESSURE: 410 psi

BLANK TEST	0.000	16:02
INTERNAL STANDARD	VERIFIED	16:02
EXTERNAL STANDARD	0.099	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.099	16:04
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.099	16:05
BLANK TEST	0.000	16:06
EXTERNAL STANDARD	0.099	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.098	16:07
BLANK TEST	0.000	16:08

Average = 0.0988
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100417

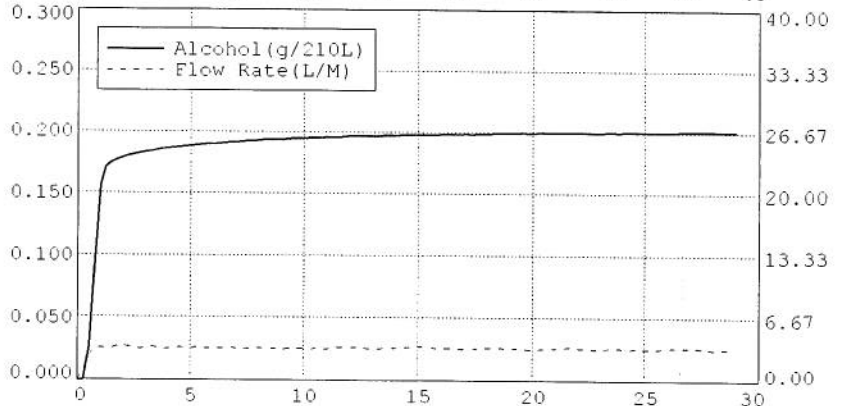
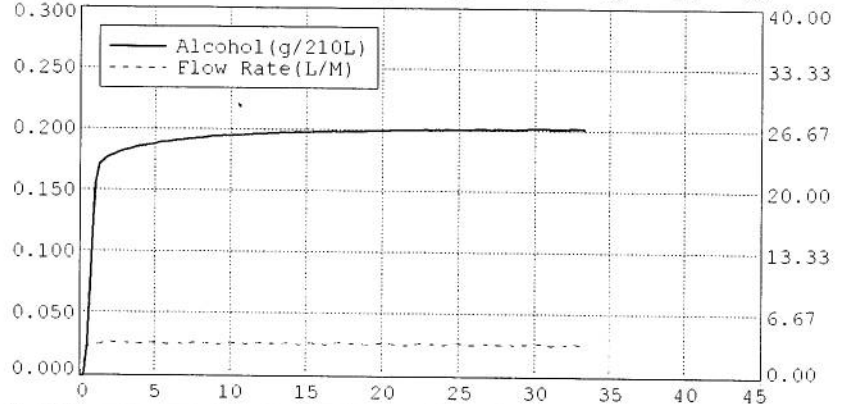
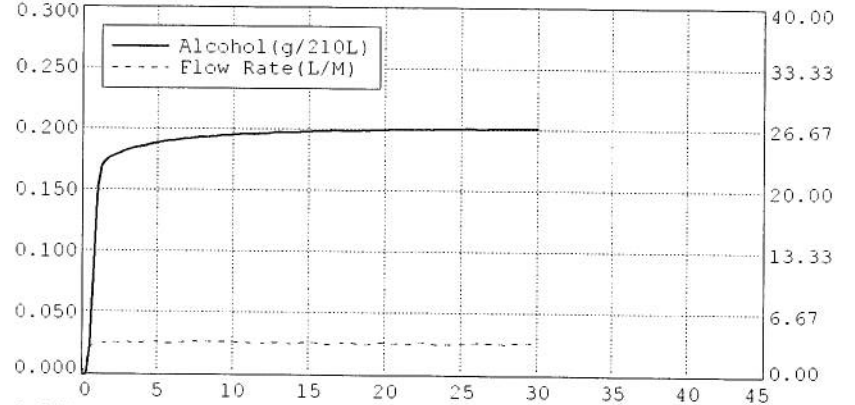
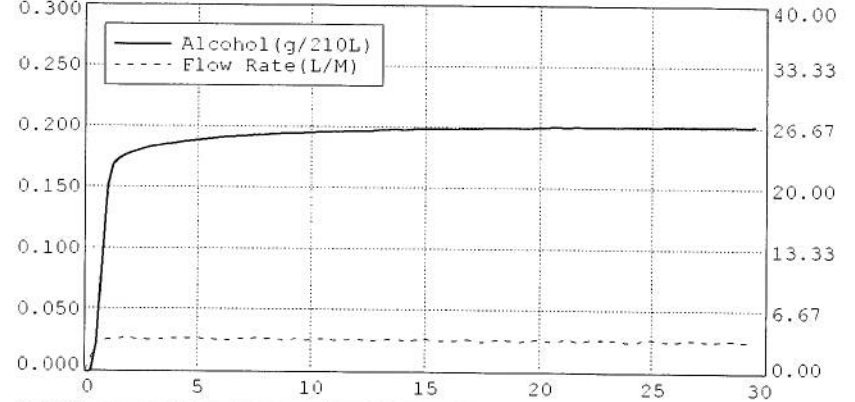
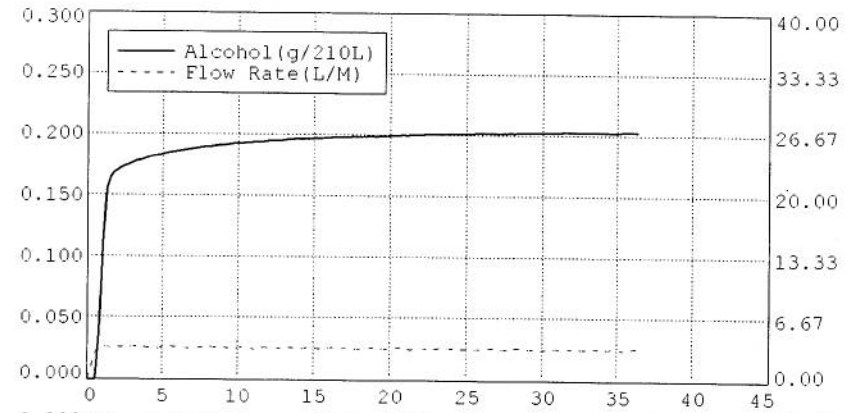
Date: 07/14/2020
 Time: 16:08:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 19200
 EXPIRATION: 08/06/2021

BLANK TEST	0.000	16:10
INTERNAL STANDARD	VERIFIED	16:10
EXTERNAL STANDARD	0.204	16:11
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.202	16:12
BLANK TEST	0.000	16:13
EXTERNAL STANDARD	0.202	16:14
BLANK TEST	0.000	16:15
EXTERNAL STANDARD	0.202	16:15
BLANK TEST	0.000	16:16
EXTERNAL STANDARD	0.202	16:17
BLANK TEST	0.000	16:18

Average = 0.2024
 Std Dev = 0.0009



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100417

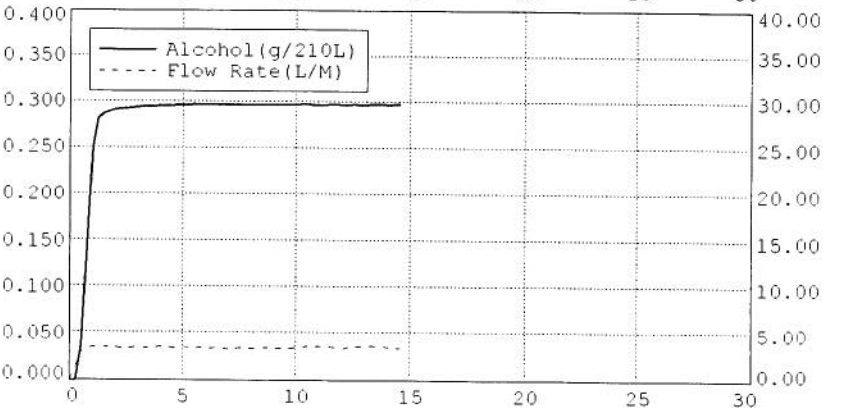
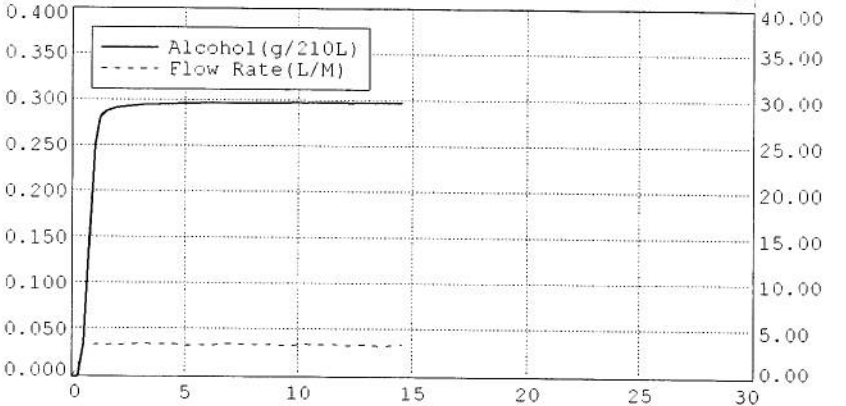
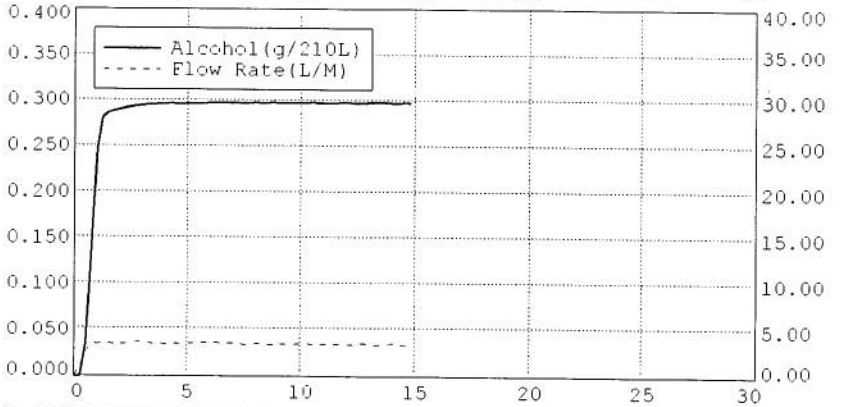
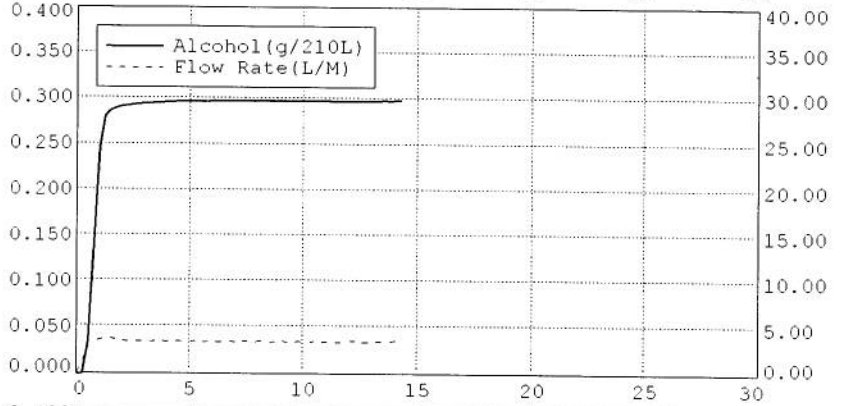
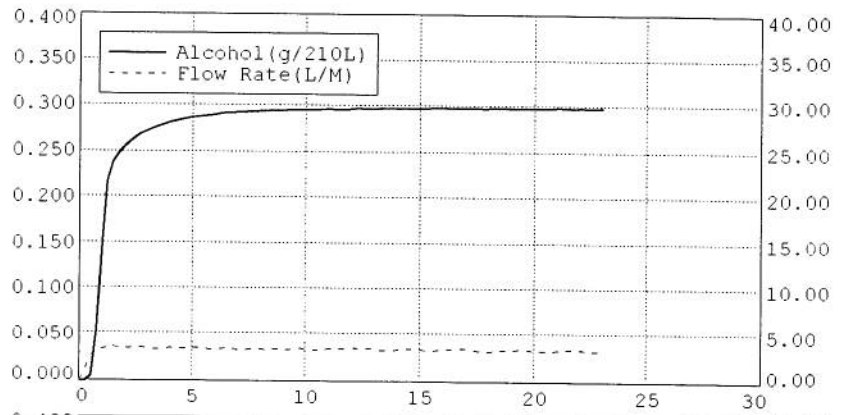
Date: 07/14/2020
 Time: 16:20:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 19330
 EXPIRATION: ~~10/13/2021~~
CAS 7/14/20

BLANK TEST	0.000	16:21
INTERNAL STANDARD	VERIFIED	16:21
EXTERNAL STANDARD	0.298	16:22
BLANK TEST	0.000	16:23
EXTERNAL STANDARD	0.297	16:23
BLANK TEST	0.000	16:24
EXTERNAL STANDARD	0.297	16:24
BLANK TEST	0.000	16:25
EXTERNAL STANDARD	0.298	16:26
BLANK TEST	0.000	16:27
EXTERNAL STANDARD	0.298	16:27
BLANK TEST	0.000	16:28

Average = 0.2976
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/14/2020
Time: 17:00:01

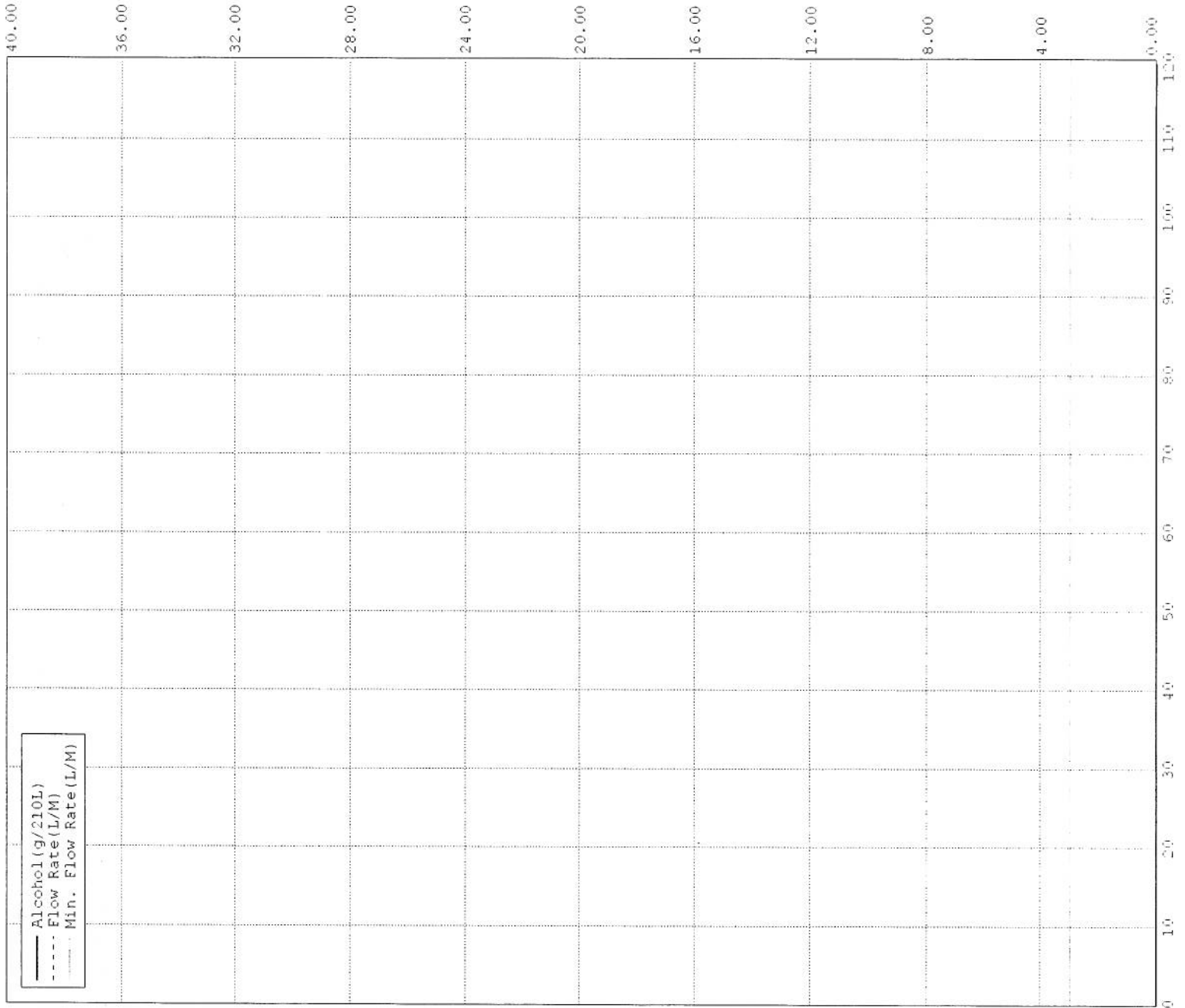
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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 17:01
BLANK TEST 0.000 17:01
INTERNAL STANDARD VERIFIED 17:01
EXTERNAL STANDARD 0.079 17:01
BLANK TEST 0.000 17:02
SUBJECT SAMPLE INCOMPLETE 17:04



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/15/2020
Time: 07:26:46

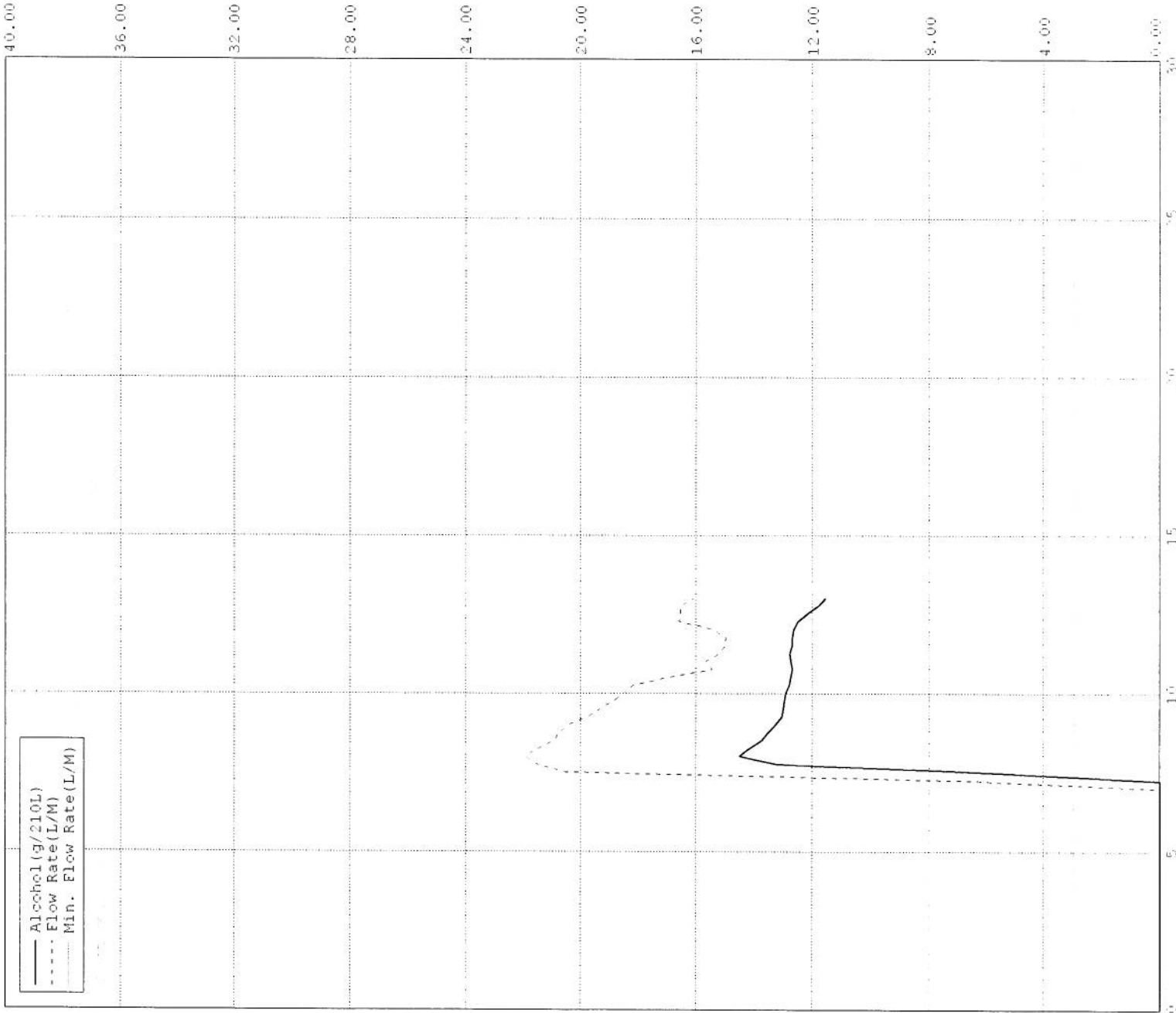
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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
BLANK TEST PASSED 07:28
INTERNAL STANDARD VERIFIED 07:28
EXTERNAL STANDARD 0.079 07:28
BLANK TEST 0.000 07:29
SUBJECT SAMPLE INVALID 07:30



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/15/2020
Time: 07:52:47

SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

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

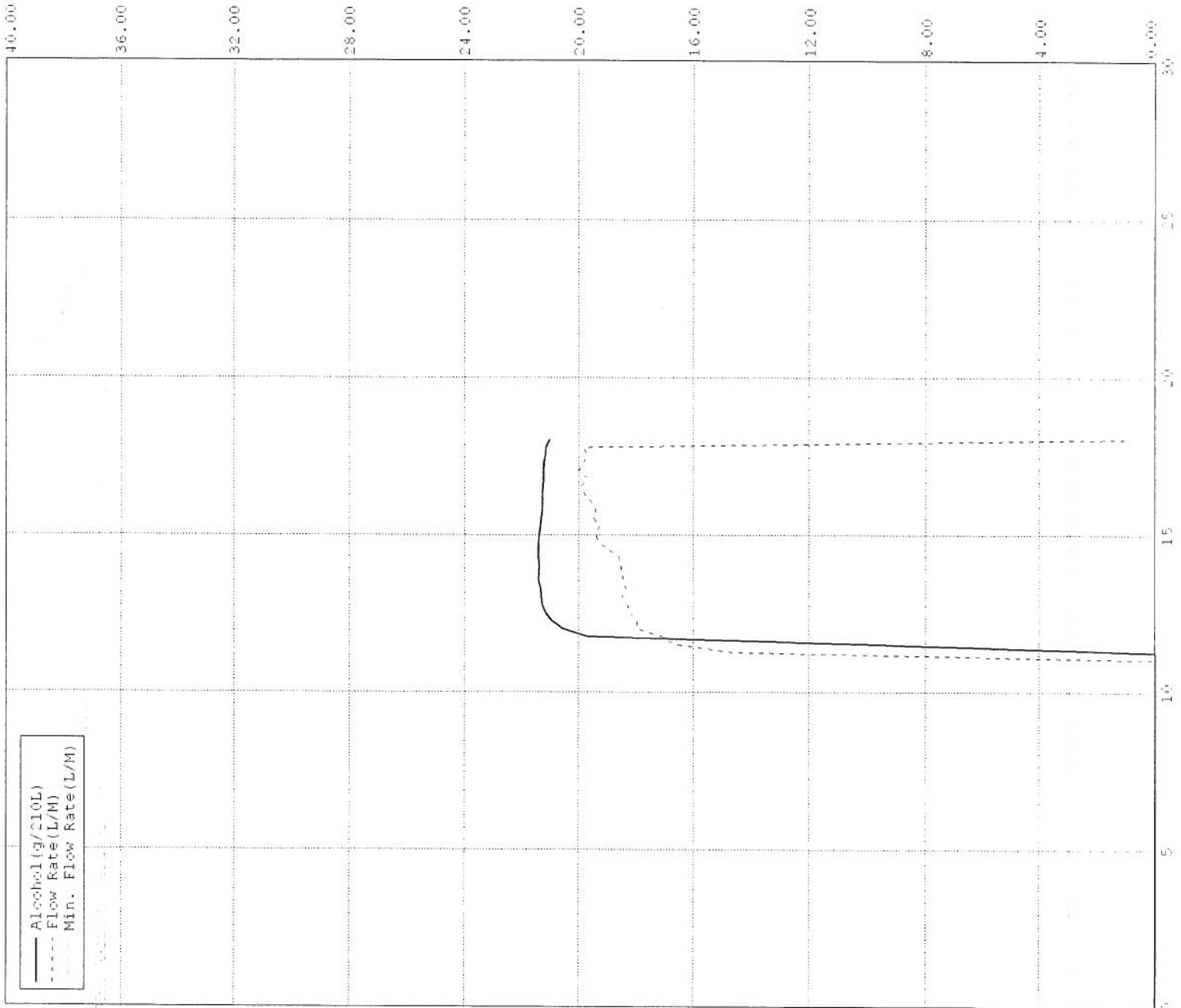
EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	07:54
BLANK TEST	0.000	07:54
INTERNAL STANDARD	VERIFIED	07:54
Xq = 0.094 (0.09%)		
EXTERNAL STANDARD	0.080	07:54
X[1] = 0.0796 (0.0002) (0.0017)		
BLANK TEST	0.000	07:55
SUBJECT SAMPLE	XXX	07:55
X[1] = 0.1061 (-0.0160) (-0.0008)		

Interference Detected

Filter 2 Avg = 0.0001
0087/00160

Filter 3 Avg = 0.0013
0.0013



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/15/2020
Time: 07:59:11

SUBJECT NAME:
TEST TEST
LICENSE #: INT-IPA

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

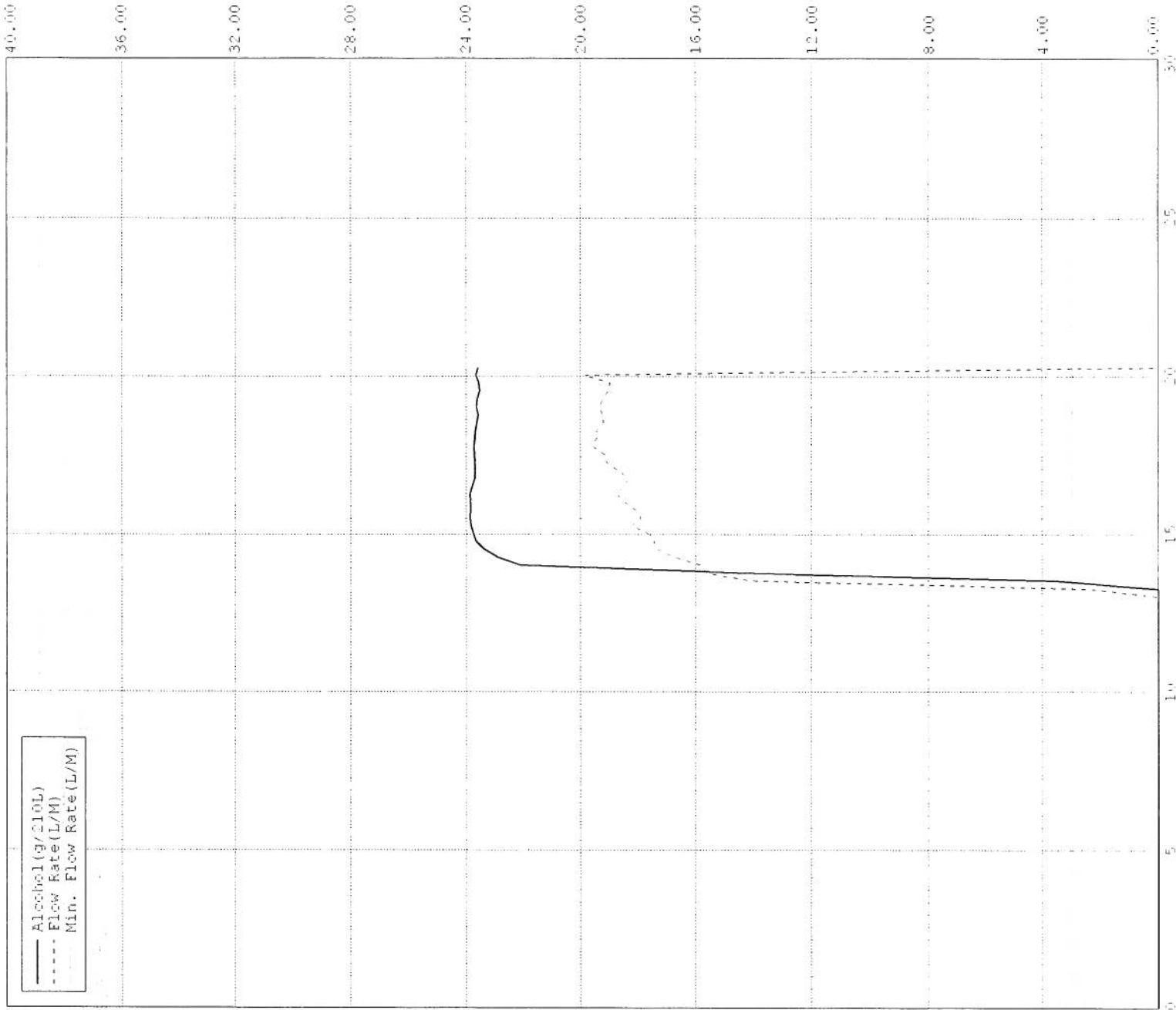
DEPT/AGENCY:
AAA1
CASE/REPORT: 20-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

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

DIAGNOSTIC CHECK	PASSED	08:00
BLANK TEST	0.000	08:00
INTERNAL STANDARD	VERIFIED	08:00
Xq = 0.094 (0.19%)		
EXTERNAL STANDARD	0.080	08:00
X[1] = 0.0800 (0.0002) (0.0014)		
BLANK TEST	0.000	08:01
SUBJECT SAMPLE	XXX	08:01
X[1] = 0.1182 (-0.0239) (-0.0004)		

Interference Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/15/2020
Time: 08:06:05

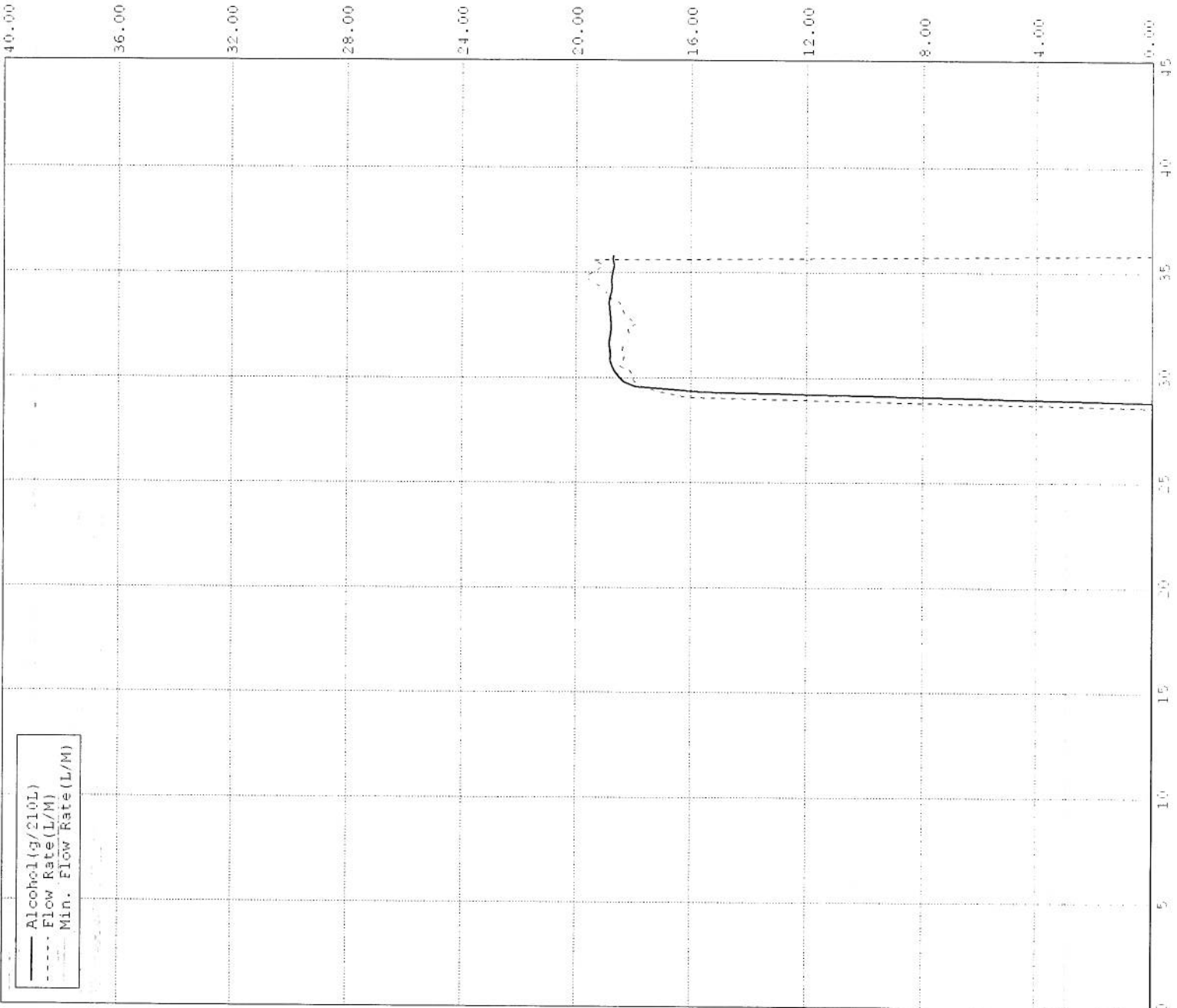
SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGATIVE

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 29.65: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK	PASSED	08:07
BLANK TEST	0.000	08:07
INTERNAL STANDARD	VERIFIED	08:07
Xq = 0.093 (0.74%)		
EXTERNAL STANDARD	0.079	08:07
X[1] = 0.0791 (-0.0004) (0.0008)		
BLANK TEST	0.000	08:08
SUBJECT SAMPLE (Vol=2.11L)	0.094	08:09
X[1] = 0.0941 (0.0003) (-0.0006)		
BLANK TEST	0.000	08:10
EXTERNAL STANDARD	0.079	08:10
X[1] = 0.0793 (0.0003) (0.0011)		
BLANK TEST	0.000	08:11



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/15/2020
Time: 07:22:29

SUBJECT NAME:
TEST TEST
LICENSE #: MAX ATTEMPTS

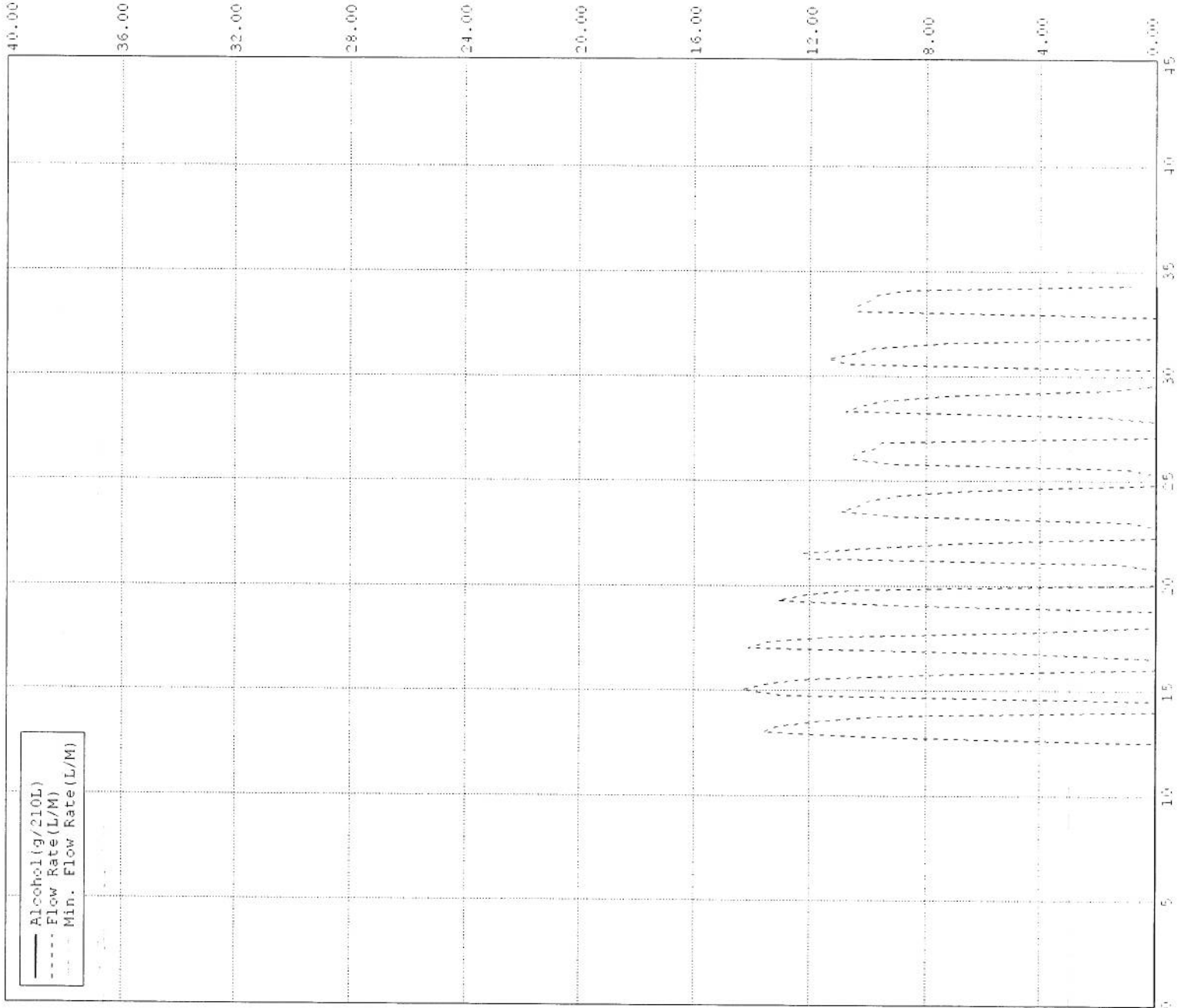
OPERATOR NAME:
COLLEEN S OBRyant
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.65: 0.079
LOT #: AG826101
EXPIRATION: 09/18/2020

DIAGNOSTIC CHECK PASSED 07:23
BLANK TEST 0.000 07:23
INTERNAL STANDARD VERIFIED 07:23
EXTERNAL STANDARD 0.080 07:23
BLANK TEST 0.000 07:24
SUBJECT SAMPLE XXX 07:25

Maximum Attempts Exceeded



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/15/2020
Time: 07:38:29

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

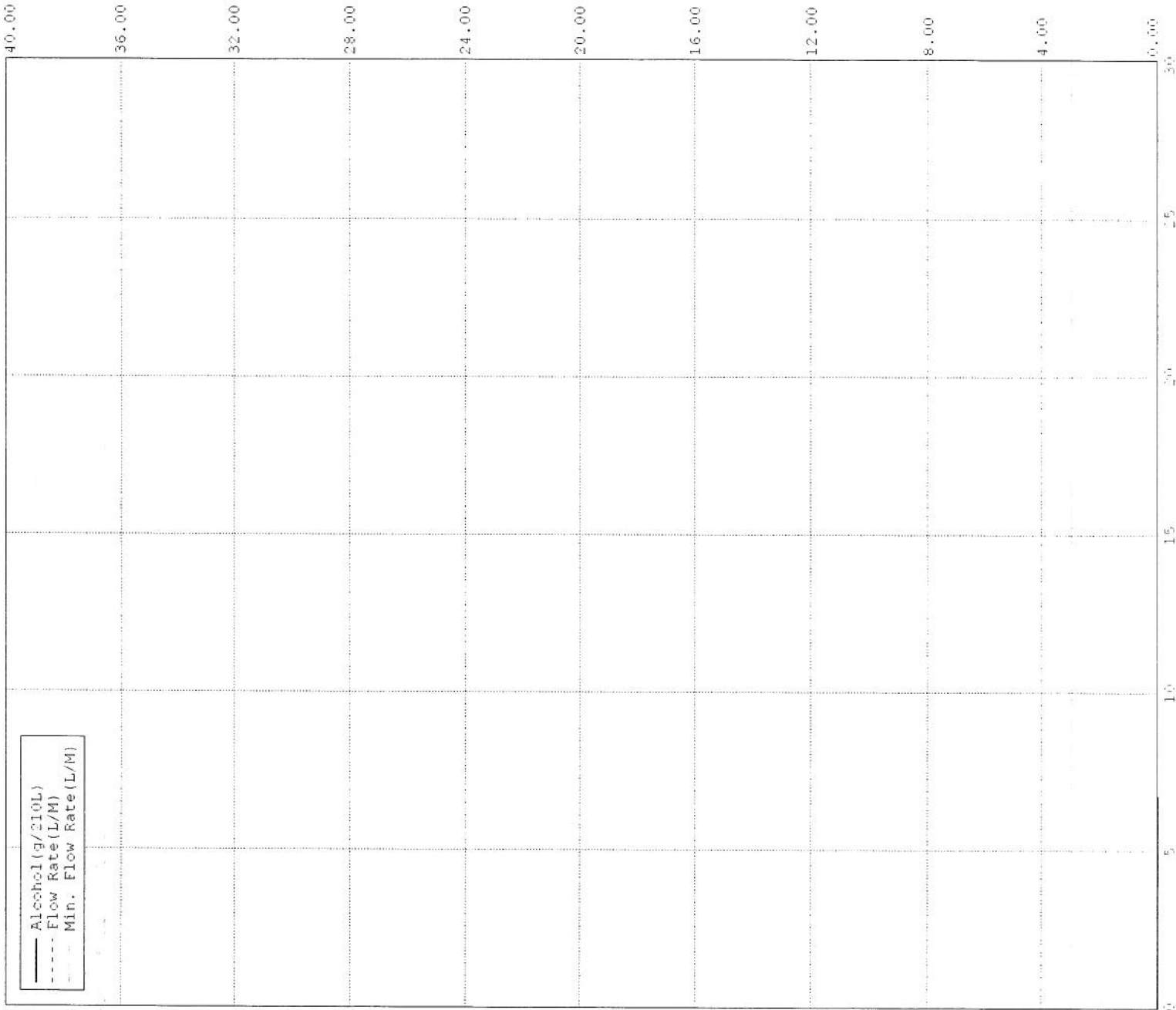
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

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 07:43
BLANK TEST 0.000 07:43
INTERNAL STANDARD VERIFIED 07:43
EXTERNAL STANDARD 0.079 07:43
BLANK TEST 0.000 07:44

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100417

Date: 07/15/2020
Time: 08:22:51

SUBJECT NAME:
TEST TEST
LICENSE #: NONDRINKING

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	08:25
BLANK TEST	0.000	08:25
INTERNAL STANDARD	VERIFIED	08:25
EXTERNAL STANDARD	0.080	08:25
BLANK TEST	0.000	08:26
SUBJECT SAMPLE (Vol=2.33L)	0.000	08:26
BLANK TEST	0.000	08:27
EXTERNAL STANDARD	0.079	08:27
BLANK TEST	0.000	08:28

