

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100686 Analyst Colleen O'Bryant Start Date 9/7/12

Diagnostic Test (attached)

1. Voltage Checks

a. Adjust voltages, if needed

i. Lamp (2.6V Maximum)

ii. Bias (80V)

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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013

ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013

iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014

iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 03/01/2013

v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/2013

1. Simulator S/N DR4178 Date Calibrated 02/21/2012

vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/2013

1. Simulator S/N SD1198 Date Calibrated 01/10/2012

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13

1. Simulator S/N SD1199 Date Calibrated 01/11/2012

ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 7/6/13

1. Simulator S/N DR6267 Date Calibrated 01/10/12

iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13

1. Simulator S/N DR4176 Date Calibrated 02/21/12

d. RFI

6. Verify stylus is calibrated

7. Verify card reader is functional

8. Reset Options

9. Clear Memory

10. Verification of Calibration

11. Non-Drinking Subject Test (attached)

12. Upload

13. Update agency information and polling status in DM Host Calling Program

End Date 9/12/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 09/07/2012
Time: 14:20:27

VERSIONS
DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 47.5°C PASSED

PUMP INFO
Flow Rate = 3.754 L/M PASSED

DETECTOR INFO
PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO
Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

0032/19

Technician Screen

DATAMASTER dmt: 100686

Date: 09/07/2012
Time: 2:22 PM

Temperatures (°C)

Sample Cell: 48.9°C
Breath Tube: 47.7°C

Current Barometer 29.8 in
Volume (Ltr) 1.40

Settings

Lamp: 1.65 V
Bias: 80 V
Cooler: 1.59 V
Chopper: 518 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.026 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 10/24/2011
Time: 07:23:53

Ca = 0.1000
CAL = 1.010893 0.800 <= CAL < 1.200
b1 = 0.0012 0.0000 <= b1 < 0.0040
b2 = 0.0056 0.0010 <= b2 < 0.0100
b3 = 0.0010 0.0000 <= b3 < 0.0040
Xq = 0.0920 0.0500 <= Xq < 0.2000
a21 = 1.175856 1.050 <= a21 < 1.300
a31 = 0.416340 0.300 <= a31 < 0.800

C084/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100686

Date: 09/07/2012
 Time: 14:23:41

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

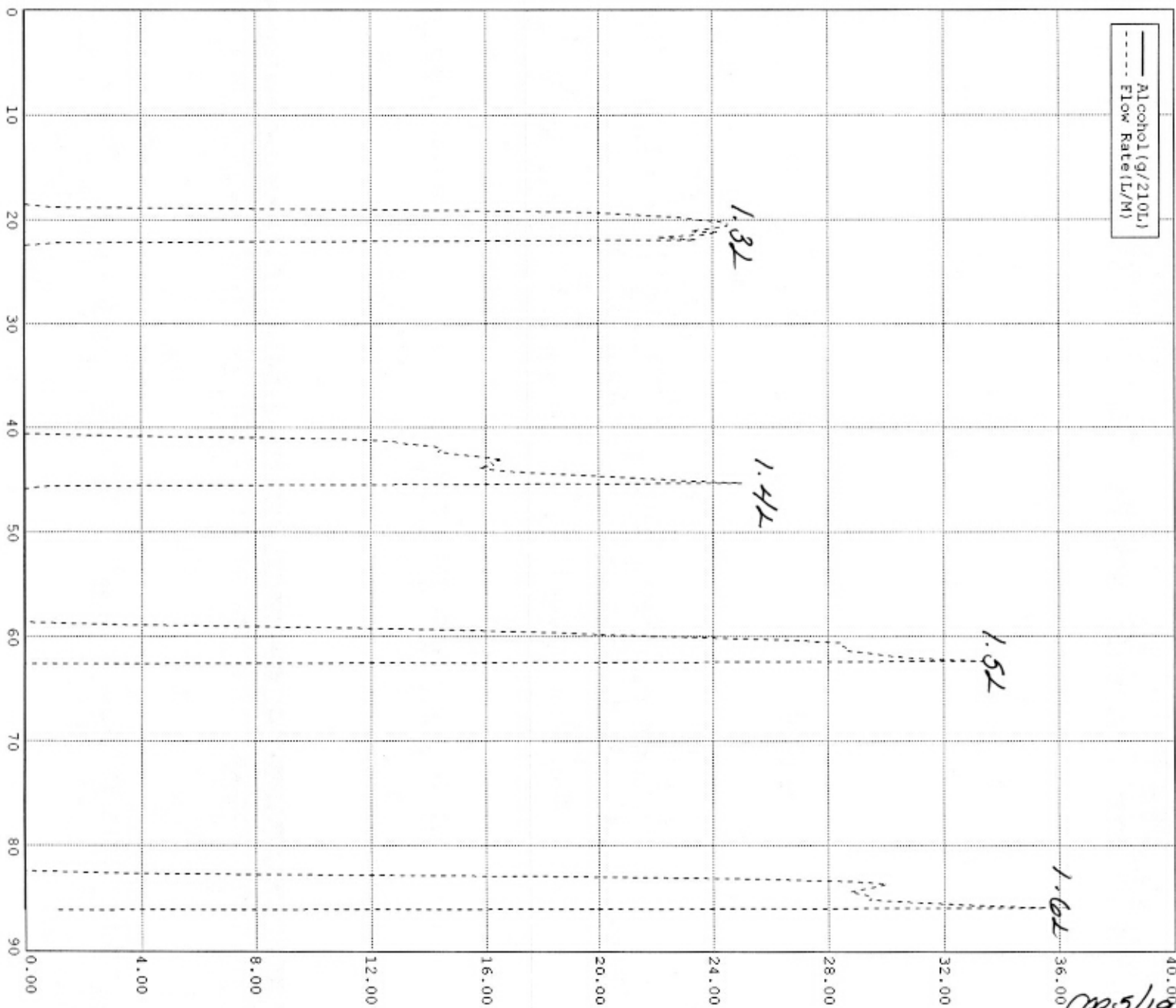
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAAl
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.84: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:26
BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.082	14:26
BLANK TEST	0.000	14:27
SUBJECT SAMPLE	0.000	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.081	14:30
BLANK TEST	0.000	14:31

MS



MS 5/19

LINEARITY CHECK

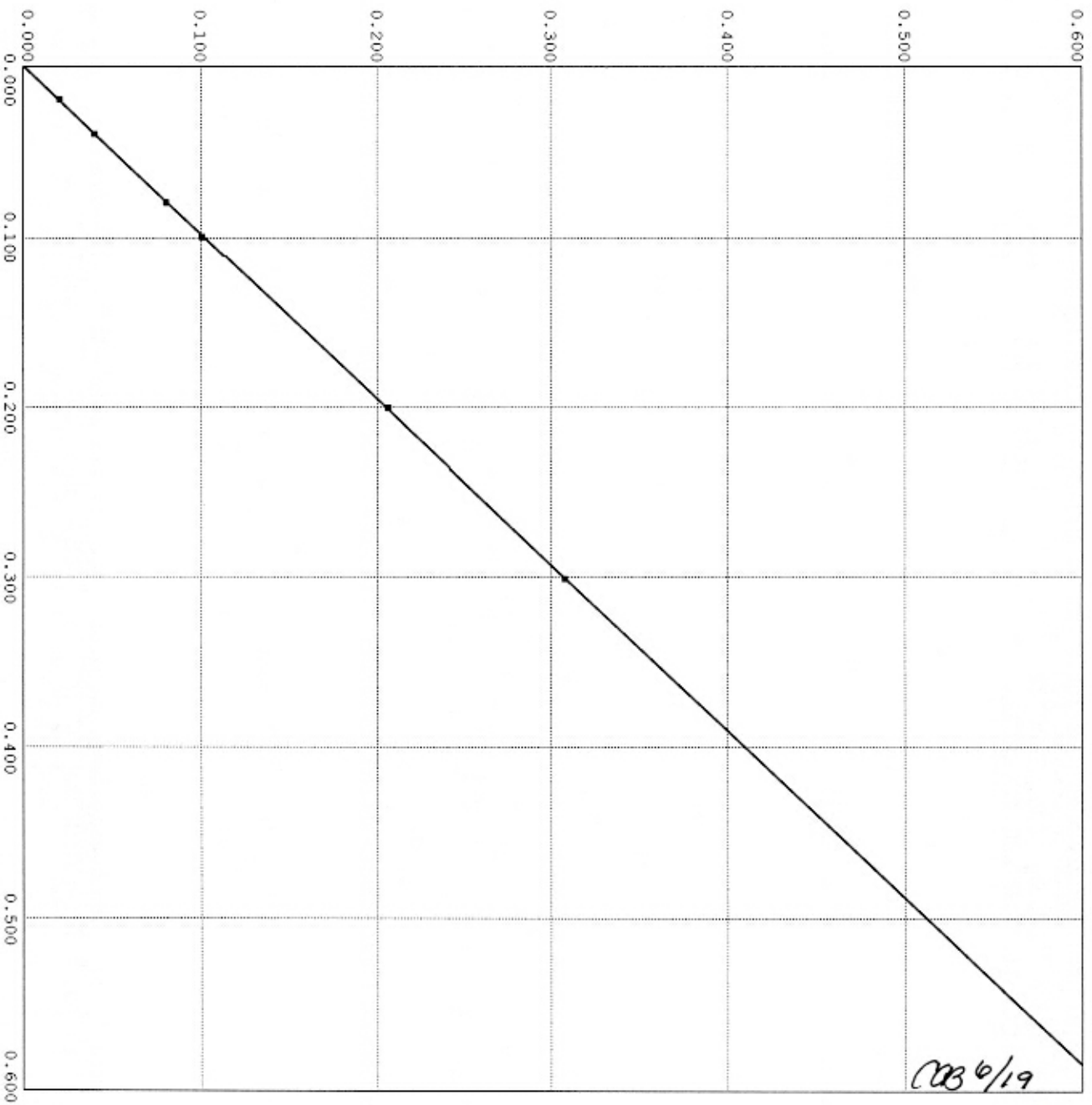
Alaska Department of Public Safety
 DATAMASTER dmt: 100686

Date: 09/07/2012
 Time: 15:04:25

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0212	0.0002
0.039	0.0411	0.0003
0.079	0.0814	0.0003
0.099	0.1016	0.0003
0.200	0.2070	0.0005
0.300	0.3086	0.0006

SLOPE = 1.026006
 R² = 0.9999957



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100686

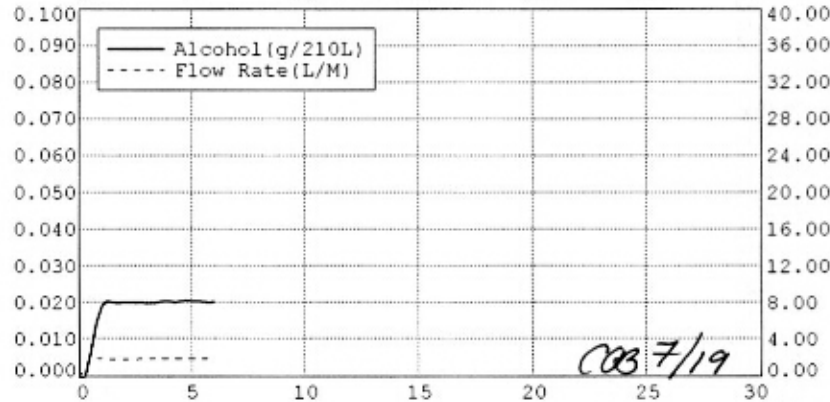
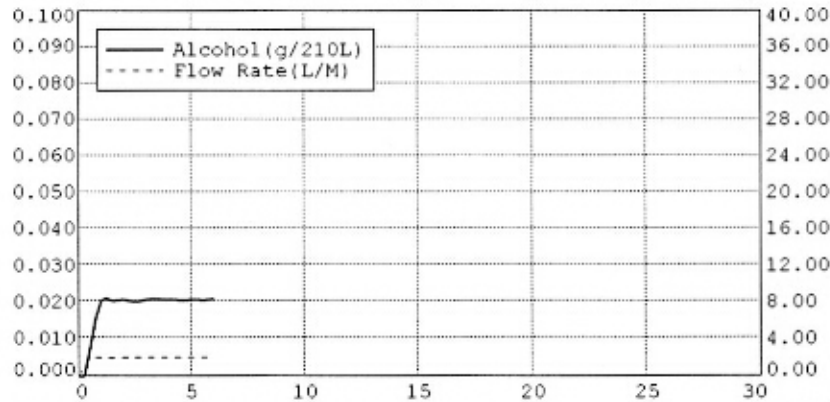
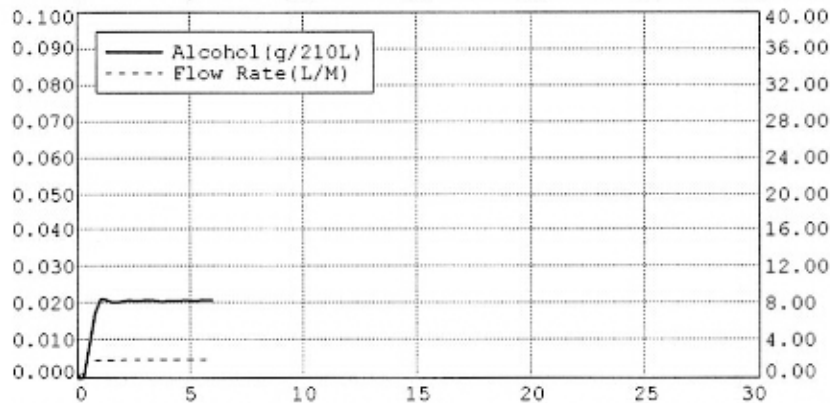
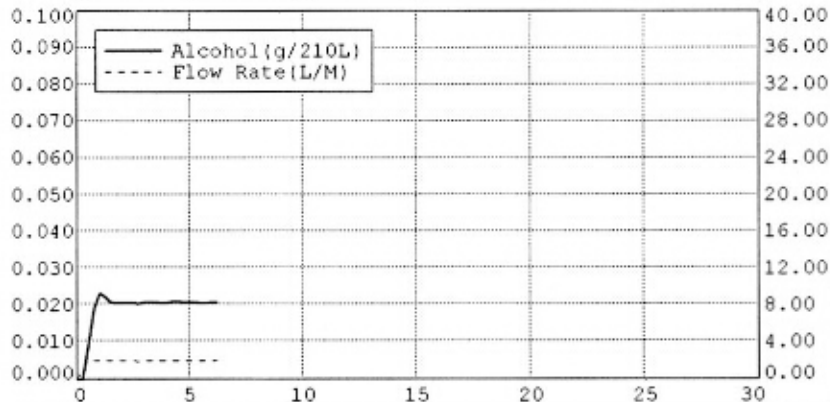
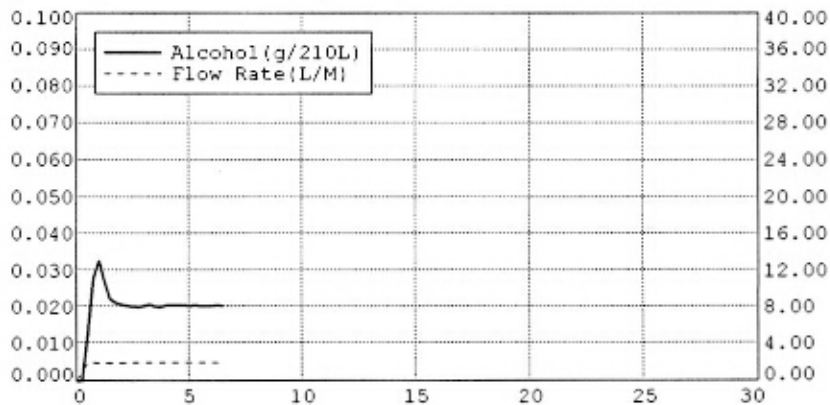
Date: 09/07/2012
Time: 15:04:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.82: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
EXTERNAL STANDARD	0.021	15:05
BLANK TEST	0.000	15:06
EXTERNAL STANDARD	0.021	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.021	15:08
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.021	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.020	15:10
BLANK TEST	0.000	15:11

Average = 0.0212
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

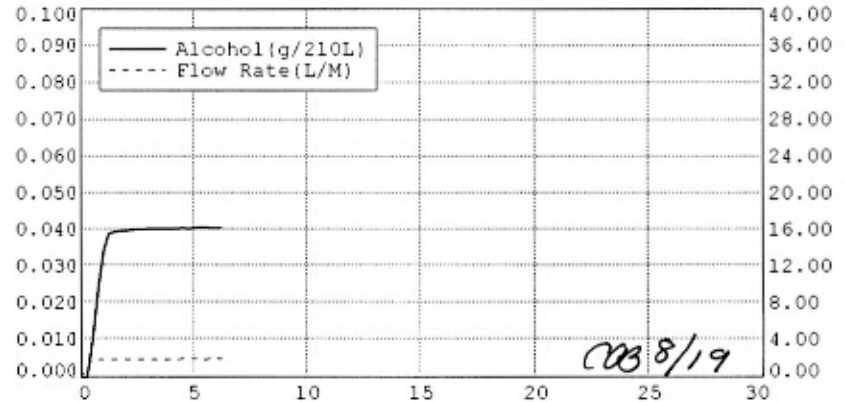
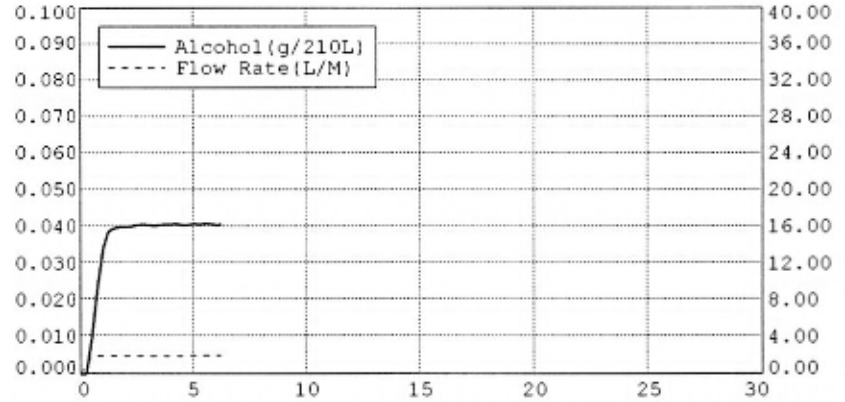
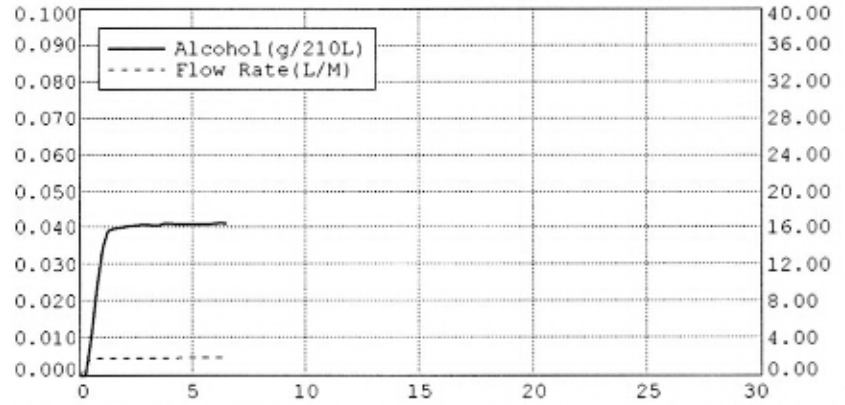
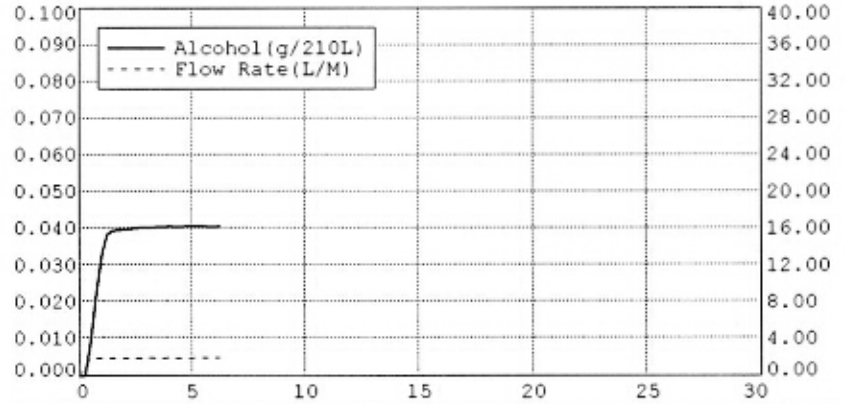
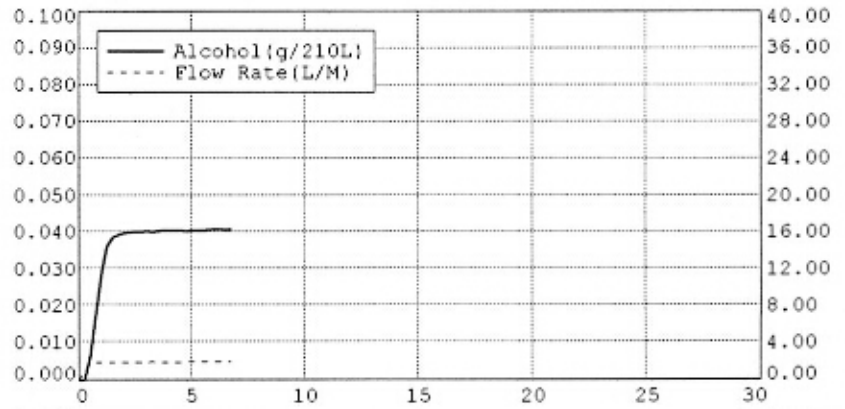
Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 09/07/2012
Time: 15:12:14

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.82: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:13
INTERNAL STANDARD	VERIFIED	15:13
EXTERNAL STANDARD	0.040	15:13
BLANK TEST	0.000	15:14
EXTERNAL STANDARD	0.040	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.041	15:16
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.041	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.040	15:18
BLANK TEST	0.000	15:19

Average = 0.0411
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

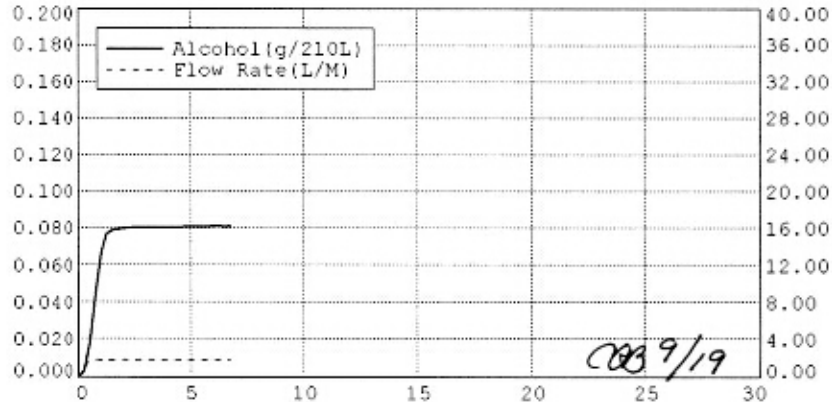
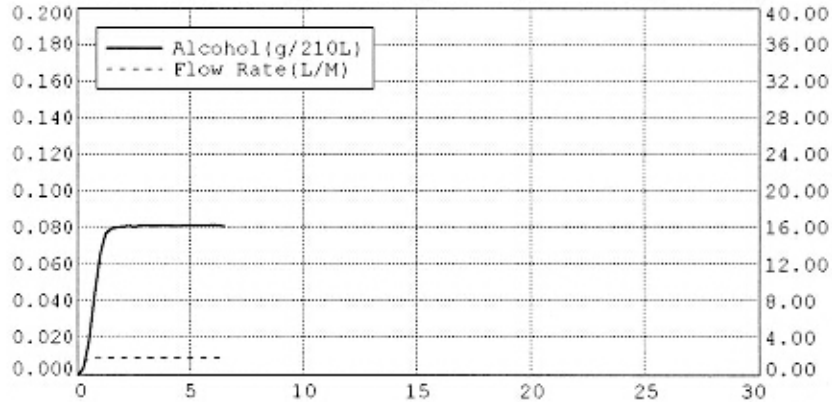
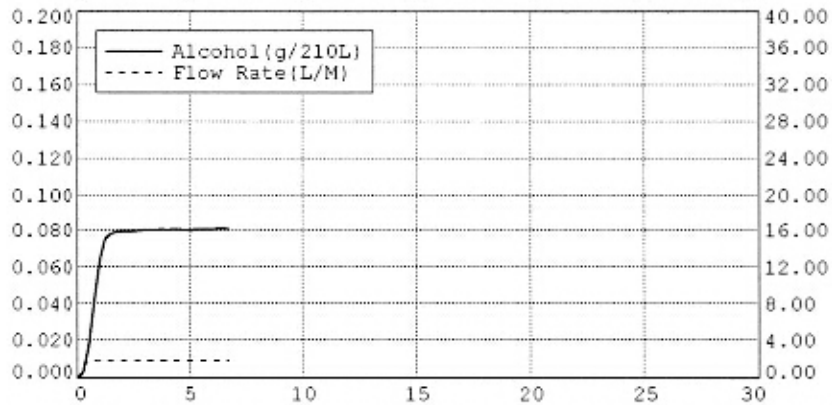
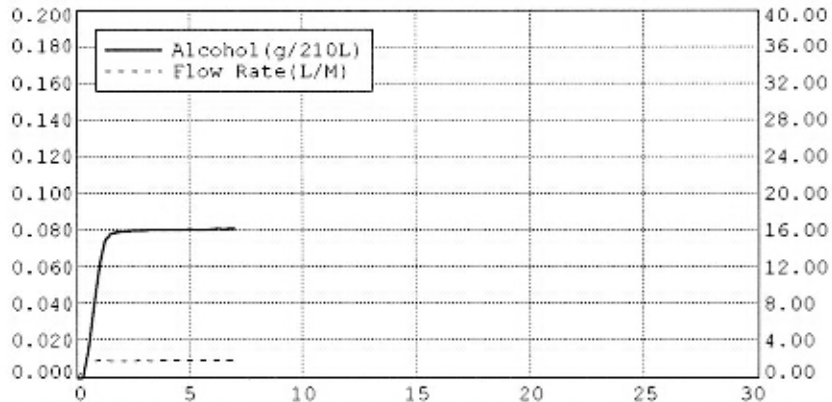
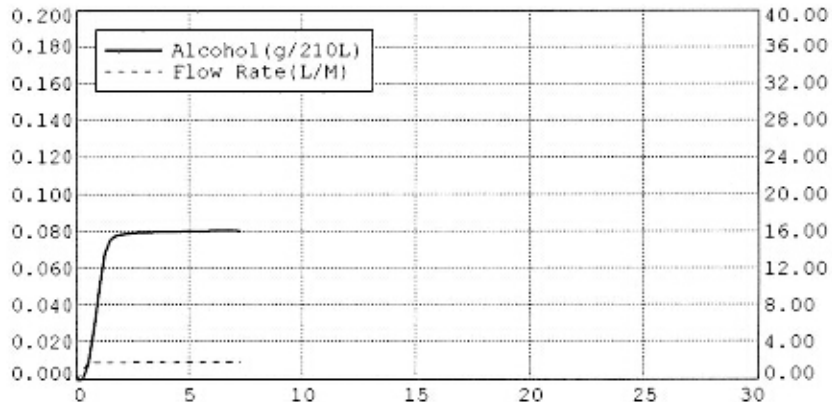
Alaska Department of Public Safety
 DATAMASTER dmt: 100686

Date: 09/07/2012
 Time: 15:19:53

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.83: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	15:21
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.081	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.081	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.081	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.081	15:24
BLANK TEST	0.000	15:25
EXTERNAL STANDARD	0.081	15:25
BLANK TEST	0.000	15:26

Average = 0.0814
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

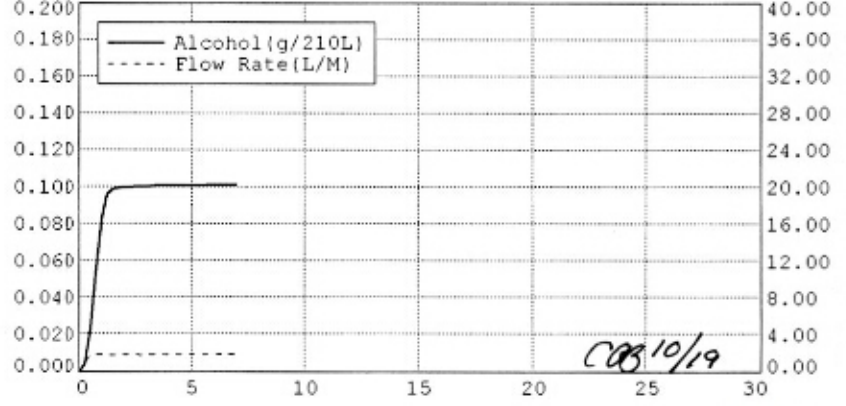
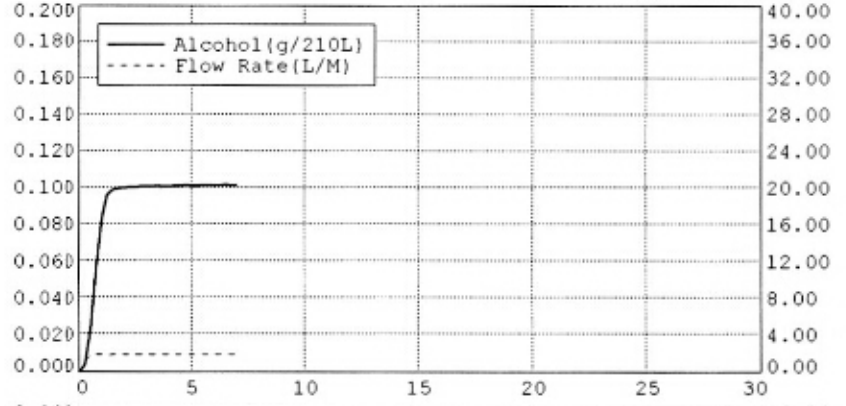
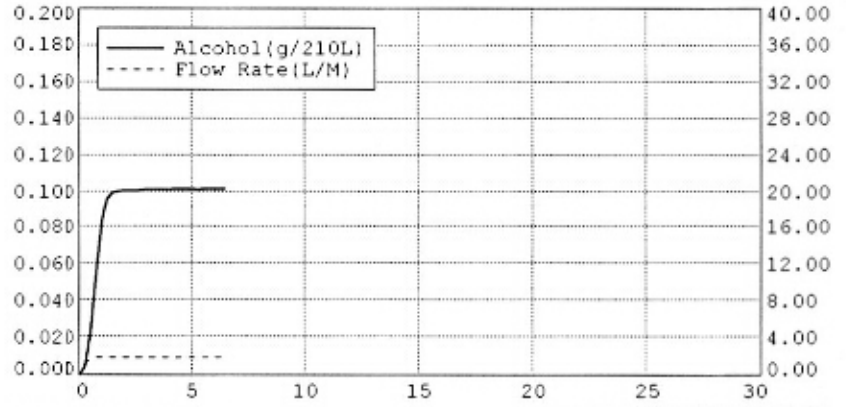
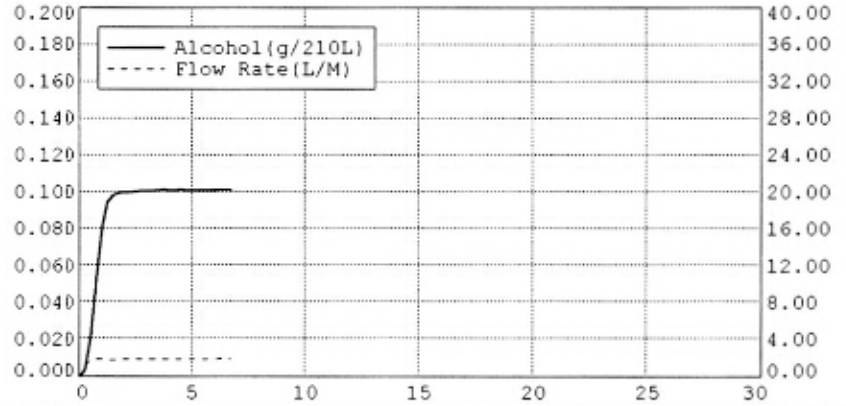
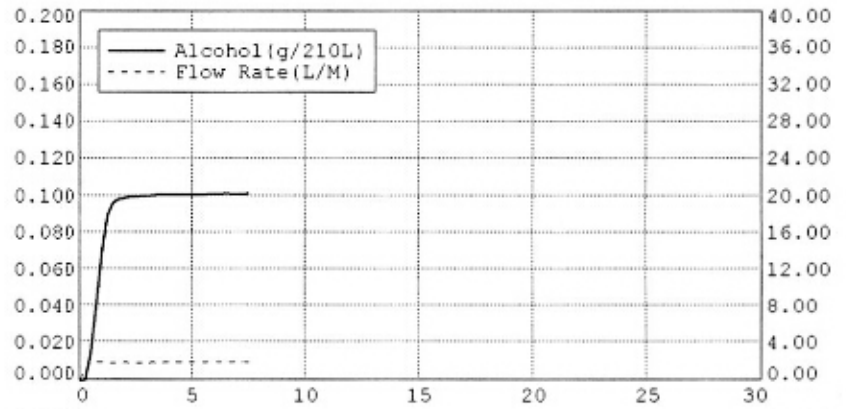
Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 09/07/2012
Time: 15:27:24

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.82: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.101	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.101	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.101	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.101	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.101	15:33
BLANK TEST	0.000	15:34

Average = 0.1016
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

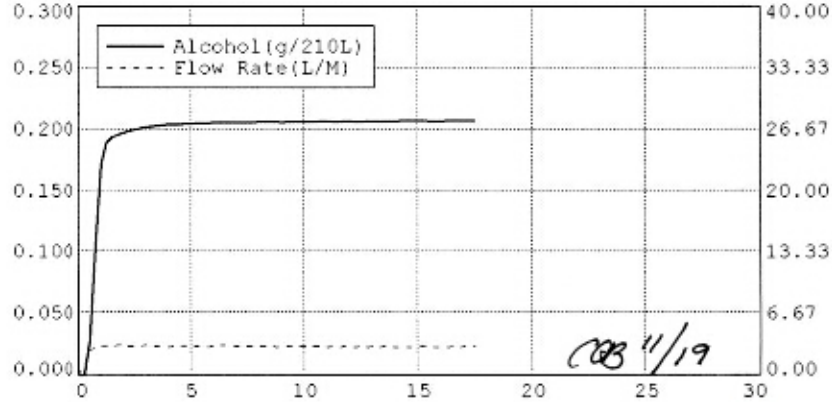
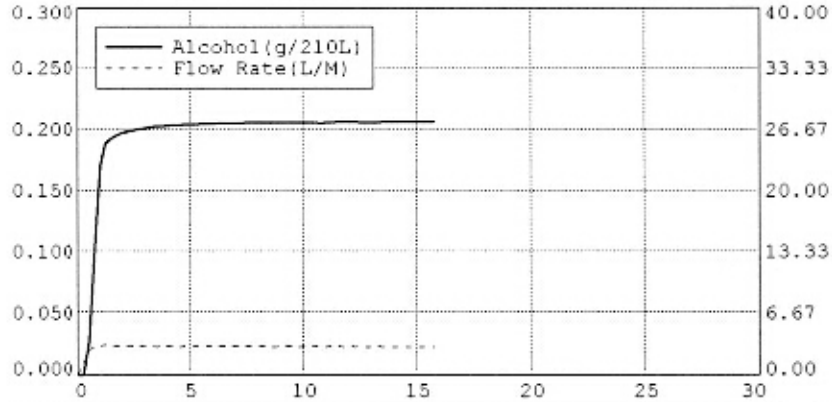
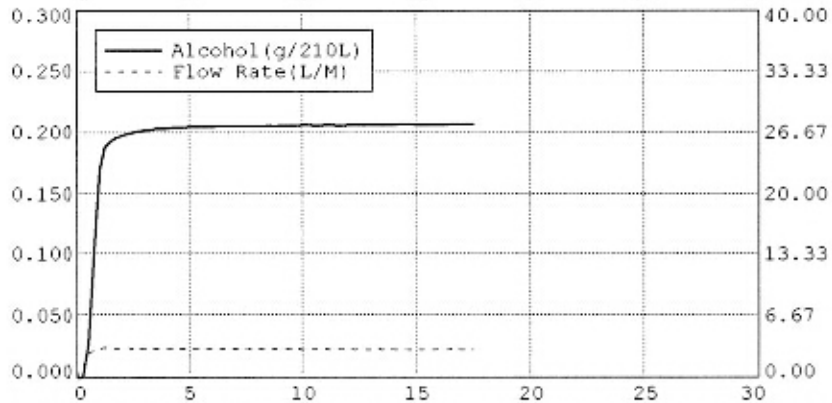
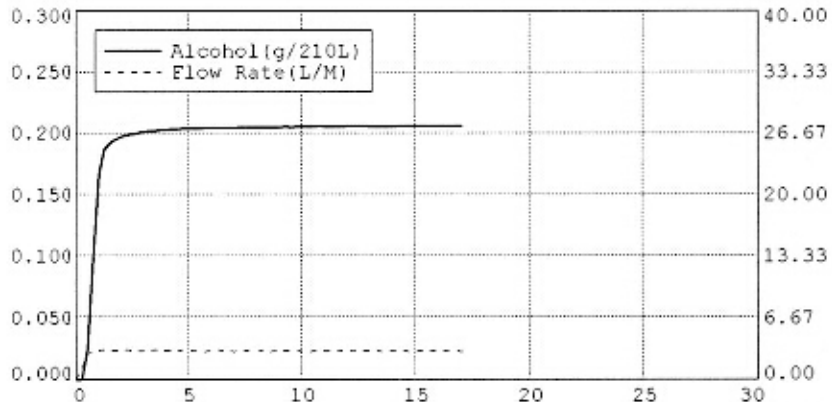
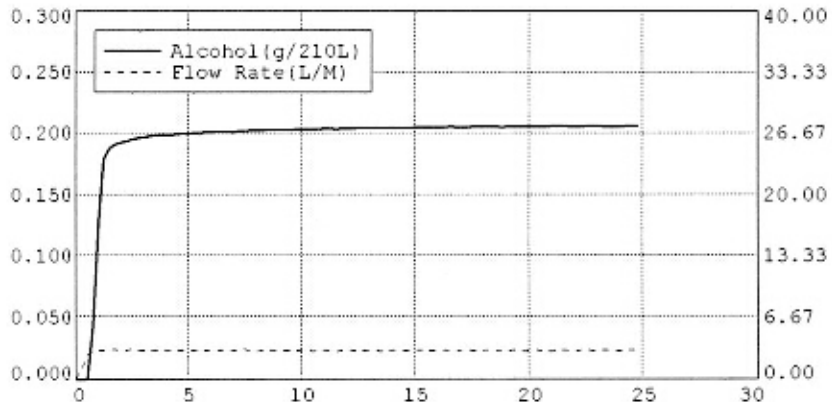
Alaska Department of Public Safety
 DATAMASTER dmt: 100686

Date: 09/07/2012
 Time: 15:34:52

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:36
EXTERNAL STANDARD	0.206	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.206	15:38
BLANK TEST	0.000	15:39
EXTERNAL STANDARD	0.207	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.207	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.207	15:42
BLANK TEST	0.000	15:43

Average = 0.2070
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100686

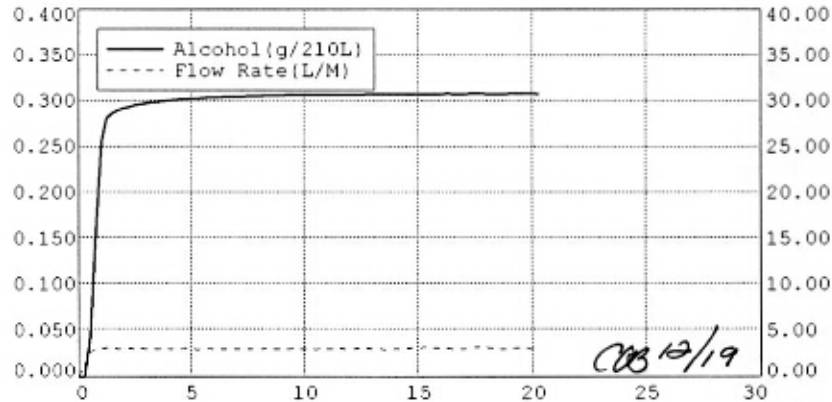
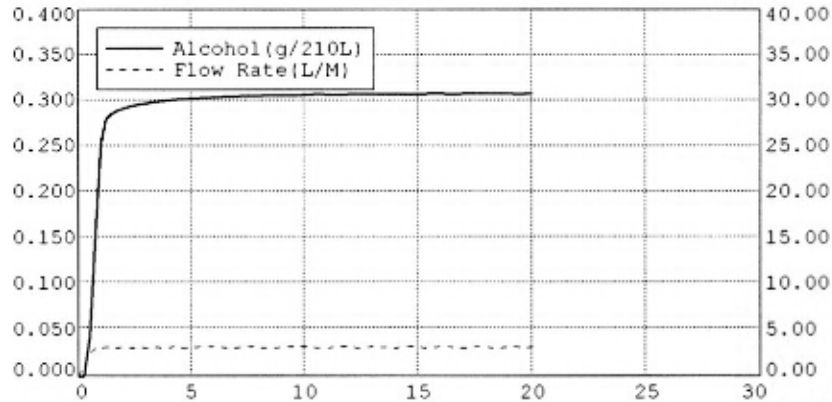
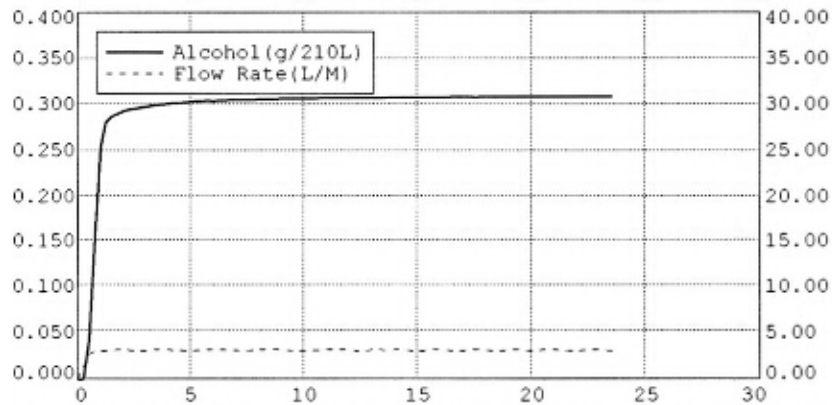
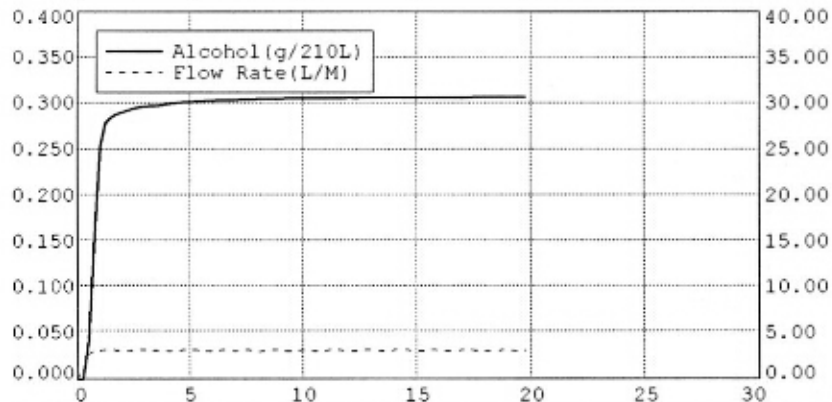
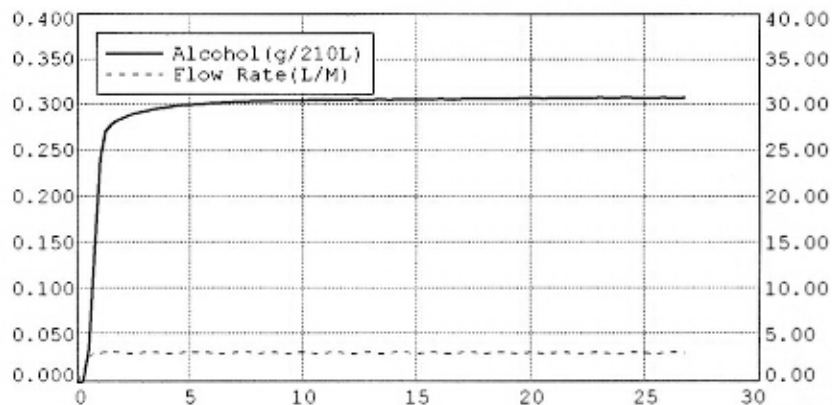
Date: 09/07/2012
 Time: 16:00:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	16:02
INTERNAL STANDARD	VERIFIED	16:02
EXTERNAL STANDARD	0.309	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.307	16:04
BLANK TEST	0.000	16:05
EXTERNAL STANDARD	0.309	16:05
BLANK TEST	0.000	16:06
EXTERNAL STANDARD	0.308	16:06
BLANK TEST	0.000	16:07
EXTERNAL STANDARD	0.308	16:08
BLANK TEST	0.000	16:09

Average = 0.3086
 Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 09/11/2012
Time: 10:56:35

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

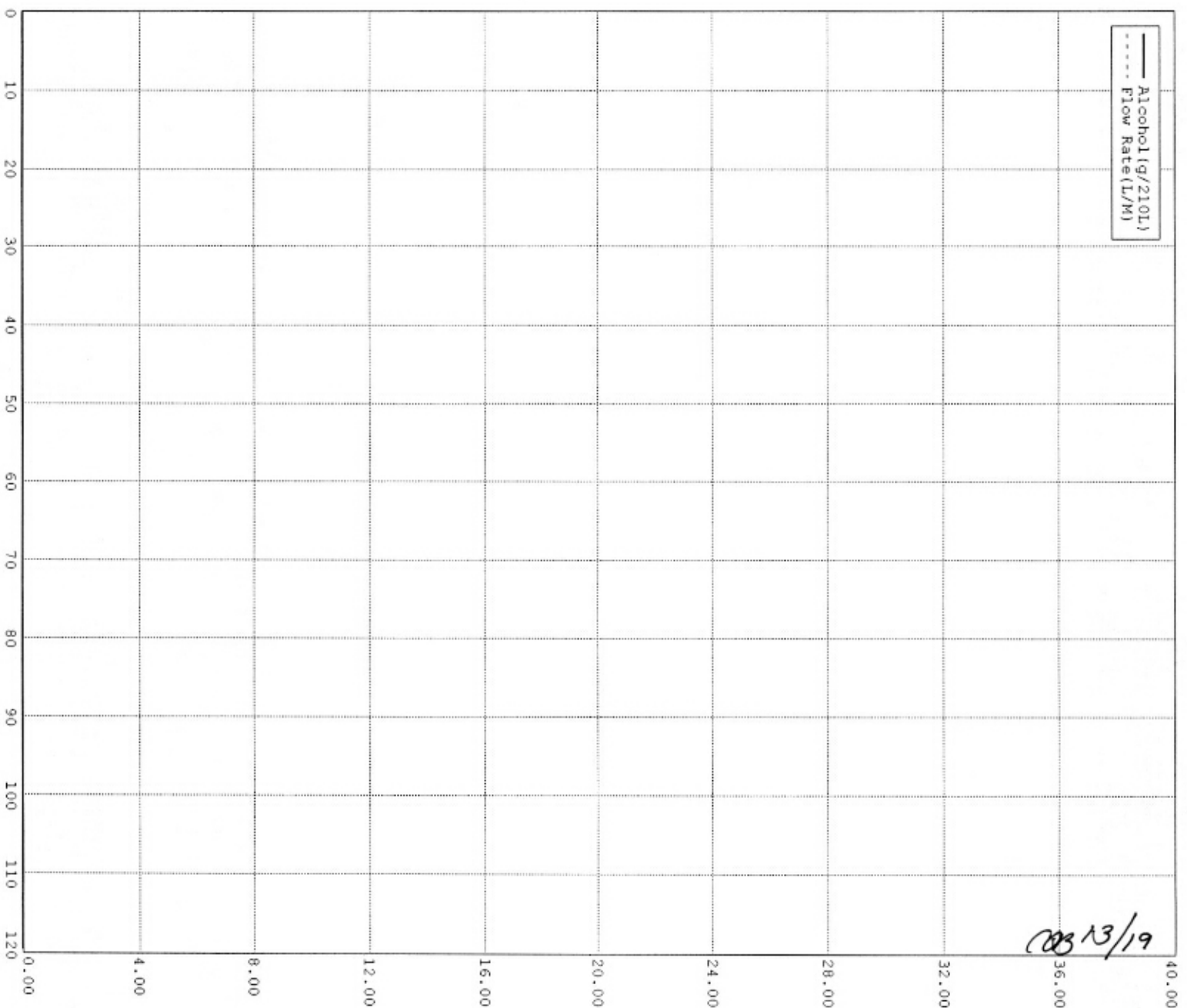
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:58
BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
EXTERNAL STANDARD	0.079	10:58
BLANK TEST	0.000	10:59
SUBJECT SAMPLE	INCOMPLETE	11:01

CS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100686

Date: 09/11/2012
Time: 11:03:36

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

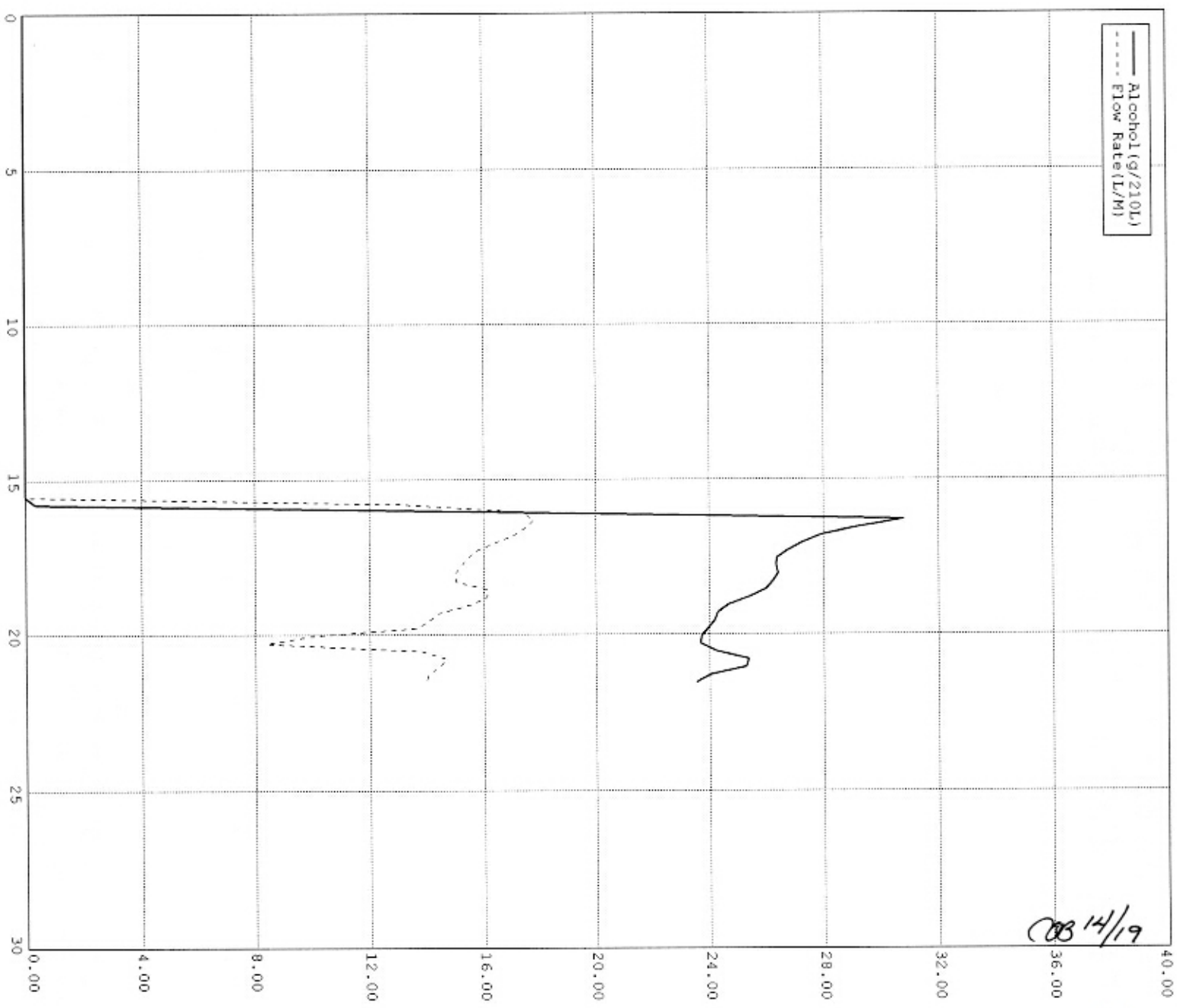
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.73: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:04
BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:05
EXTERNAL STANDARD	0.081	11:05
BLANK TEST	0.000	11:06
SUBJECT SAMPLE	INVALID	11:06

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 09/11/2012
Time: 14:14:20

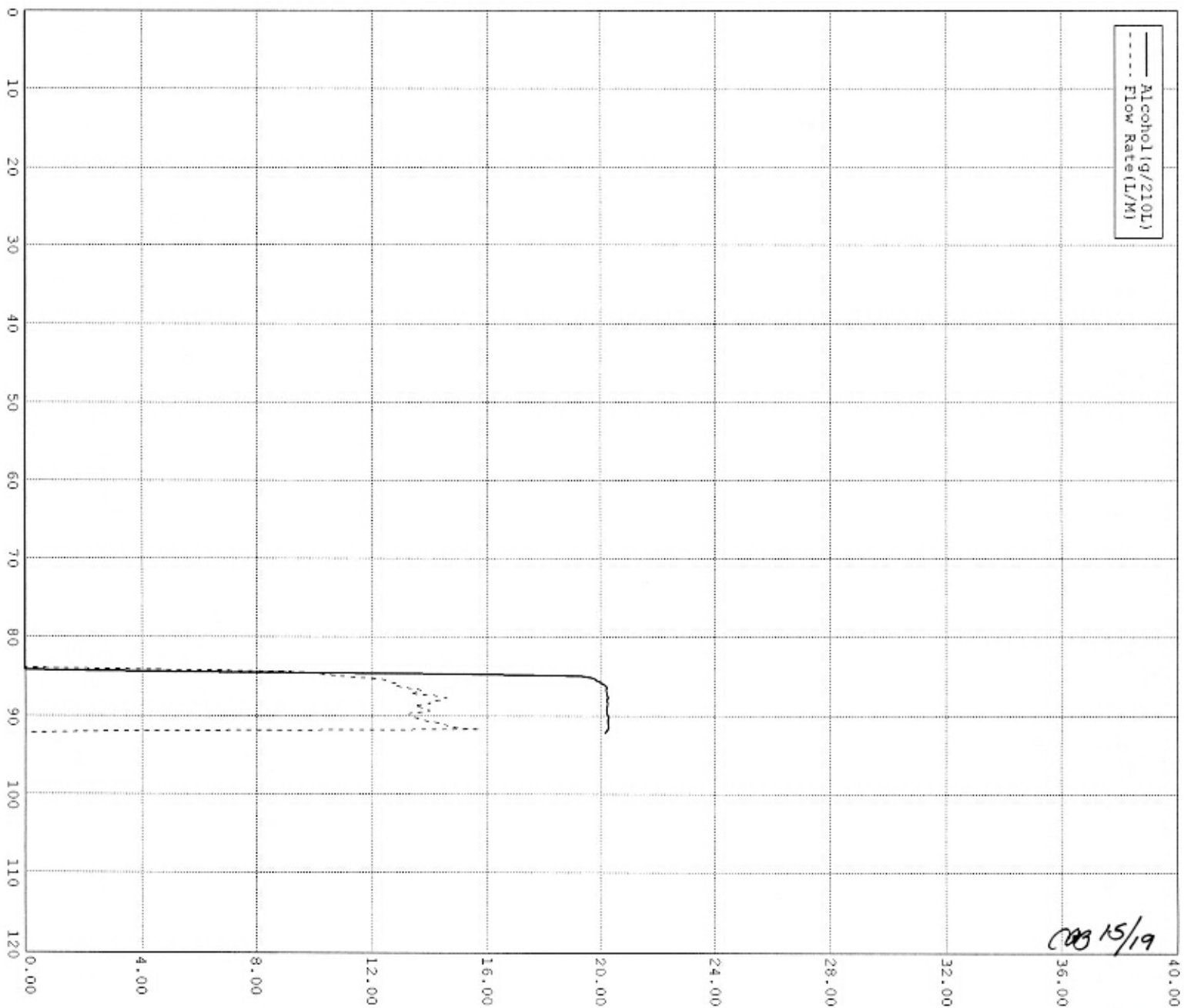
SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONE

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:20
Xq = 0.092 (0.38%)		
EXTERNAL STANDARD	0.080	14:20
X[1] = 0.0804 (-0.0007) (0.0018)		
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INTERFERENCE	14:22
X[1] = 0.1016 (-0.0145) (0.0006)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 09/11/2012
Time: 11:08:39

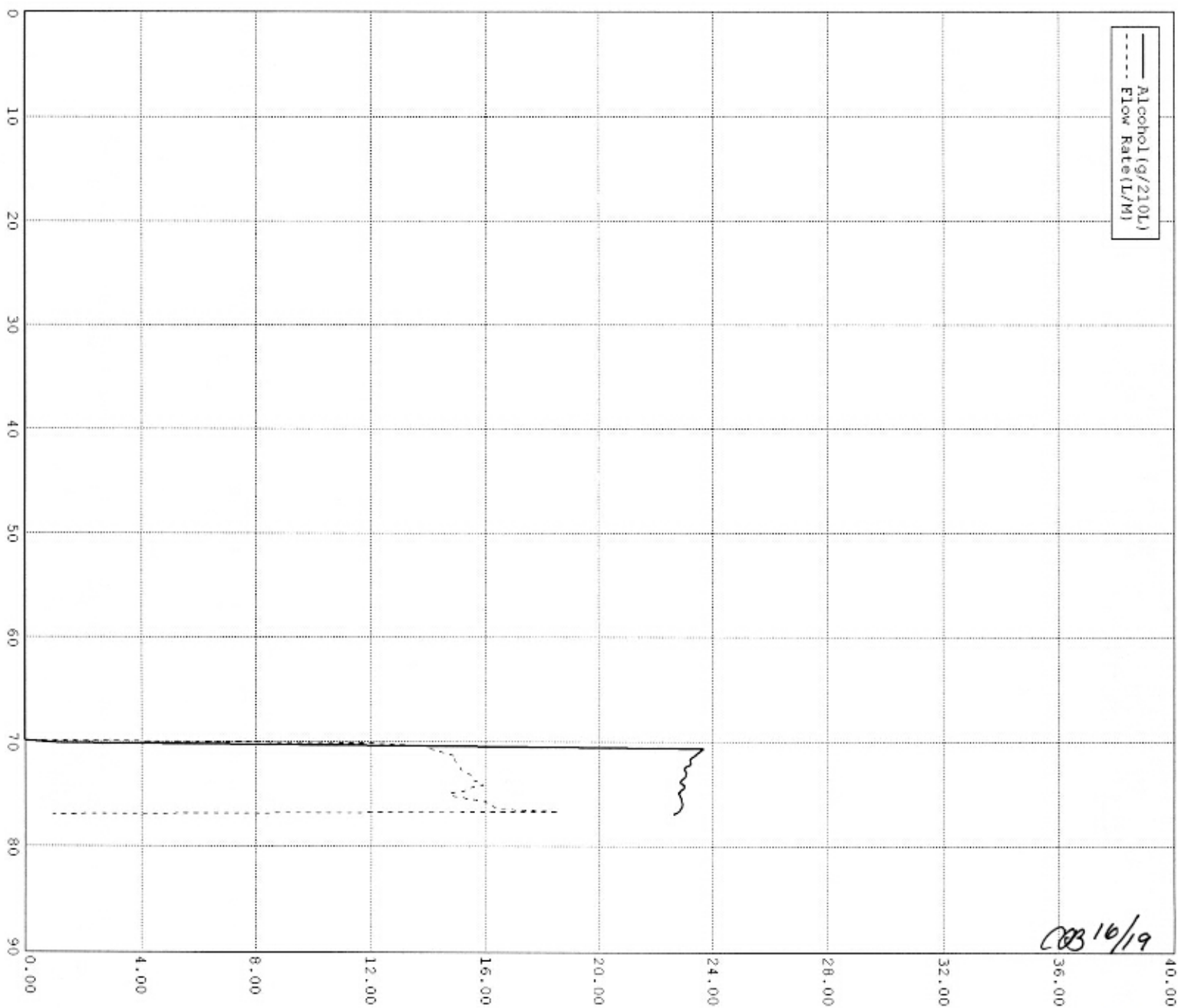
SUBJECT NAME:
TEST TEST
LICENSE #: INT-1PA

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

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.72: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:09
BLANK TEST	0.000	11:10
INTERNAL STANDARD	VERIFIED	11:10
Xq = 0.092 (0.38%)		
EXTERNAL STANDARD	0.081	11:10
X[1] = 0.0810 (0.0001)	(0.0034)	
BLANK TEST	0.000	11:11
SUBJECT SAMPLE	INTERFERENCE	11:12
X[1] = 0.1137 (-0.0237)	(0.0044)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100686

Date: 09/12/2012
 Time: 08:44:01

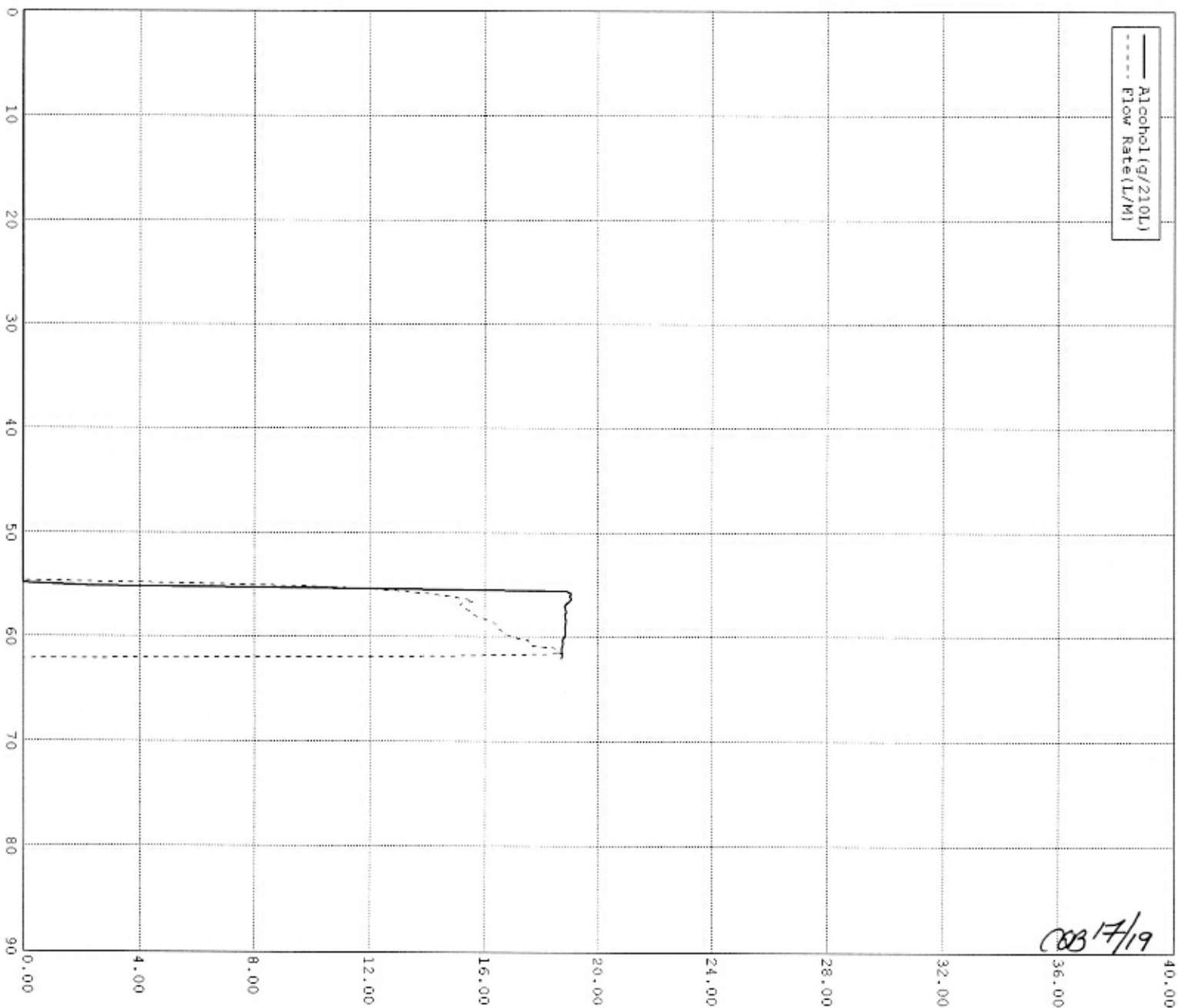
SUBJECT NAME:
 TEST TEST
 LICENSE #: NEG-CONTROL

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

DEPT/AGENCY:
 AAAA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:45
BLANK TEST	0.000	08:45
INTERNAL STANDARD	VERIFIED	08:45
Xq = 0.093 (0.76%)		
EXTERNAL STANDARD	0.080	08:45
X[1] = 0.0808 (0.0009)	(0.0032)	
BLANK TEST	0.000	08:46
SUBJECT SAMPLE (Vol=1.87L)	0.093	08:47
X[1] = 0.0935 (-0.0007)	(0.0004)	
BLANK TEST	0.000	08:48
EXTERNAL STANDARD	0.079	08:48
X[1] = 0.0799 (-0.0006)	(0.0022)	
BLANK TEST	0.000	08:49



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100686

Date: 09/12/2012
Time: 08:52:17

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

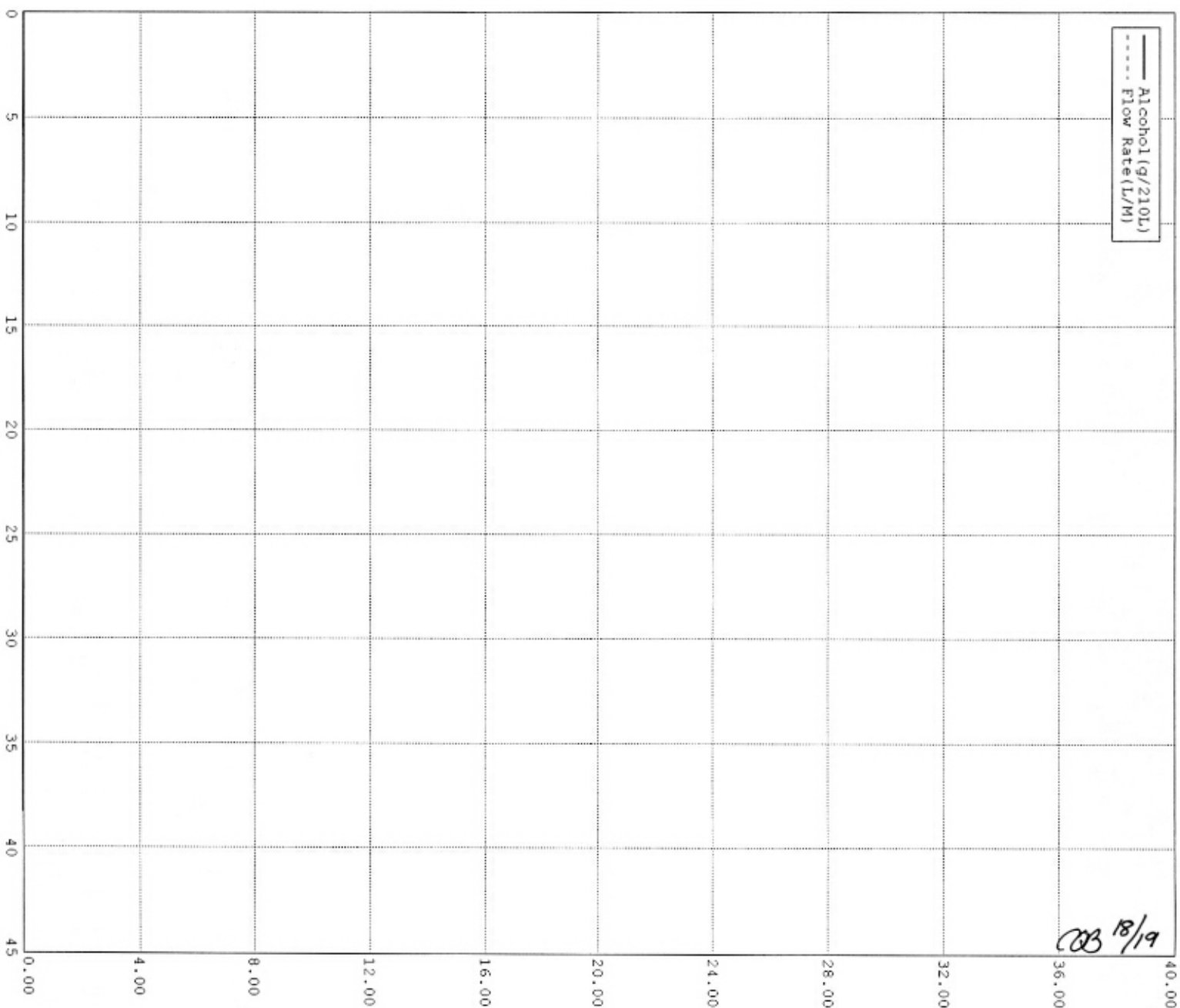
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AP 29.50: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:53
BLANK TEST	0.000	08:53
INTERNAL STANDARD	VERIFIED	08:53
EXTERNAL STANDARD	0.080	08:53
BLANK TEST	0.000	08:54

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100686

Date: 09/12/2012
Time: 09:06:31

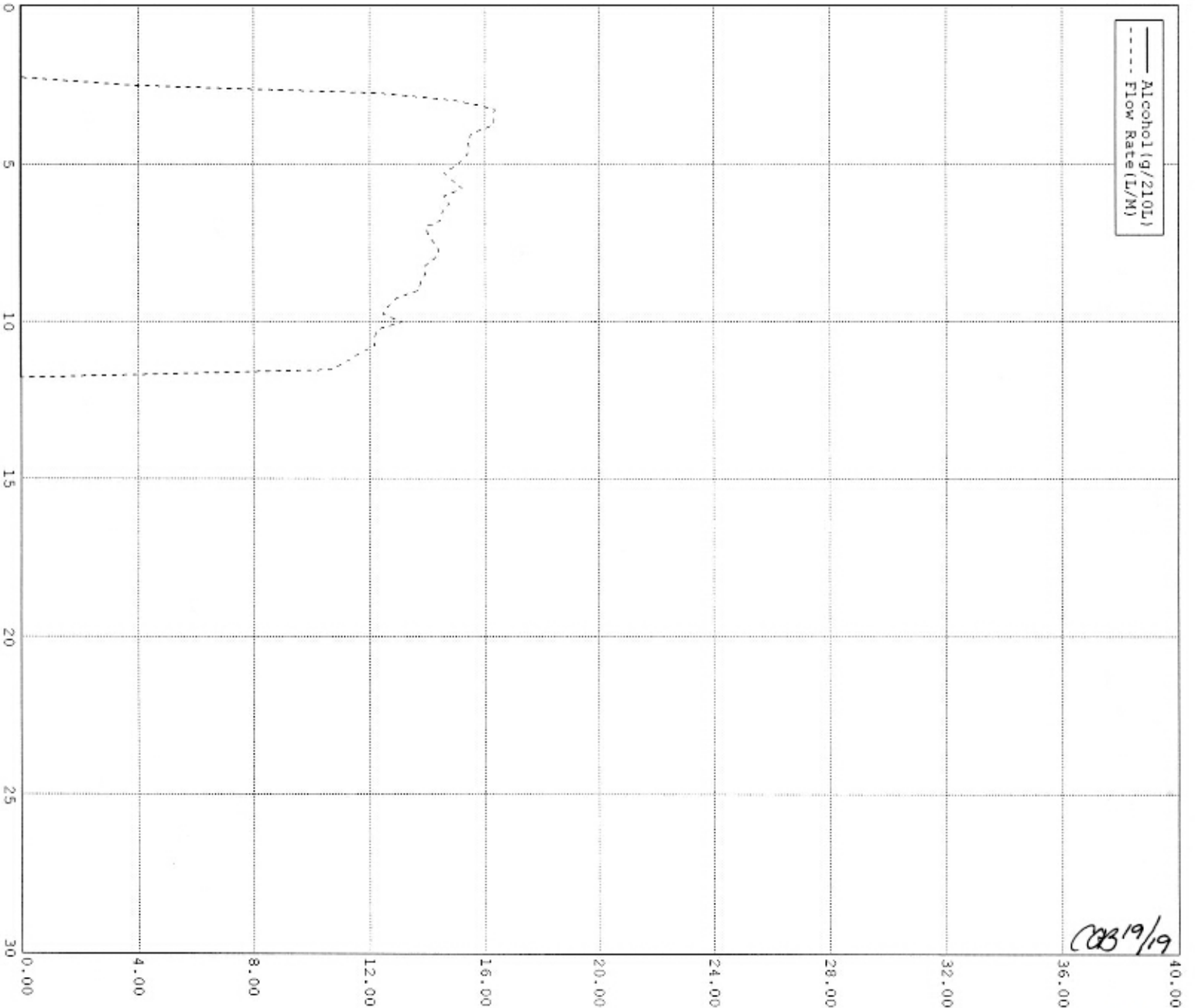
SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.49: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:07
BLANK TEST	0.000	09:07
INTERNAL STANDARD	VERIFIED	09:07
EXTERNAL STANDARD	0.080	09:07
BLANK TEST	0.000	09:08
SUBJECT SAMPLE	0.000	09:09
BLANK TEST	0.000	09:10
EXTERNAL STANDARD	0.080	09:10
BLANK TEST	0.000	09:11



Final page for report

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2/12/2014