

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100691 Analyst Colleen O'Bryant Start Date 5/16/2012

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 RI/1

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 TLMO Lot 07611020A5 Exp 03/01/2013

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

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

iv. 0.100g/210L Mnf TLMO Lot 07611100A3 Exp 03/01/2013

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

1. Simulator S/N SD1176 Date Calibrated 08/17/2011

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

1. Simulator S/N DR4176 Date Calibrated 02/01/2012

5. Functional Tests (attached)

a. Incomplete

b. Invalid

c. Interference

i. Acetone - Mnf Both Lot 11200 Level 0.080 Exp 10/11/2013

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

ii. Isopropanol - Mnf Both Lot 10280 Level 0.080 Exp 11/17/2012

1. Simulator S/N DR6267 Date Calibrated 01/10/2012

iii. Negative Control - Mnf Both Lot 11250 Level 0.100 Exp 12/06/2013

1. Simulator S/N DR4176 ^{08/5/2012} Date Calibrated 02/01/2012 ^{08/20/12}
SD1202 08/17/2011

d. RFI

6. Verify stylus is calibrated

10. Verification of Calibration

7. Verify card reader is functional

11. Non-Drinking Subject Test (attached)

8. Reset Options

12. Upload

9. Clear Memory

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

End Date 5/17/2012

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 05/16/2012
Time: 15:25:52

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO
Flow Rate = 5.023 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

CAB 2/19

Technician Screen

DATAMASTER dnt: 100691

Date: 05/16/2012
Time: 4:02 PM

Temperatures (°C)
Sample Cell: 49.3°C
Breath Tube: 47.6°C

Current Barometer 30.2 in
Volume (Ltr) 1.47

Settings
Lamp: 1.89 V
Bias: 80 V
Cooler: 1.89 V
Chopper: 542 Hz

Voltages (V)
Flow: 1.05 V
Detector: 0.030 V

COB 8/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 11/02/2011
Time: 14:58:17

Ca = 0.1000
CAL = 0.986661 0.800 <= CAL < 1.200
b1 = 0.0000 0.0000 <= b1 < 0.0040
b2 = 0.0043 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xg = 0.0921 0.0500 <= Xg < 0.2000
a21 = 1.200991 1.050 <= a21 < 1.300
a31 = 0.438779 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100691

Date: 05/14/2012
Time: 16:03:29

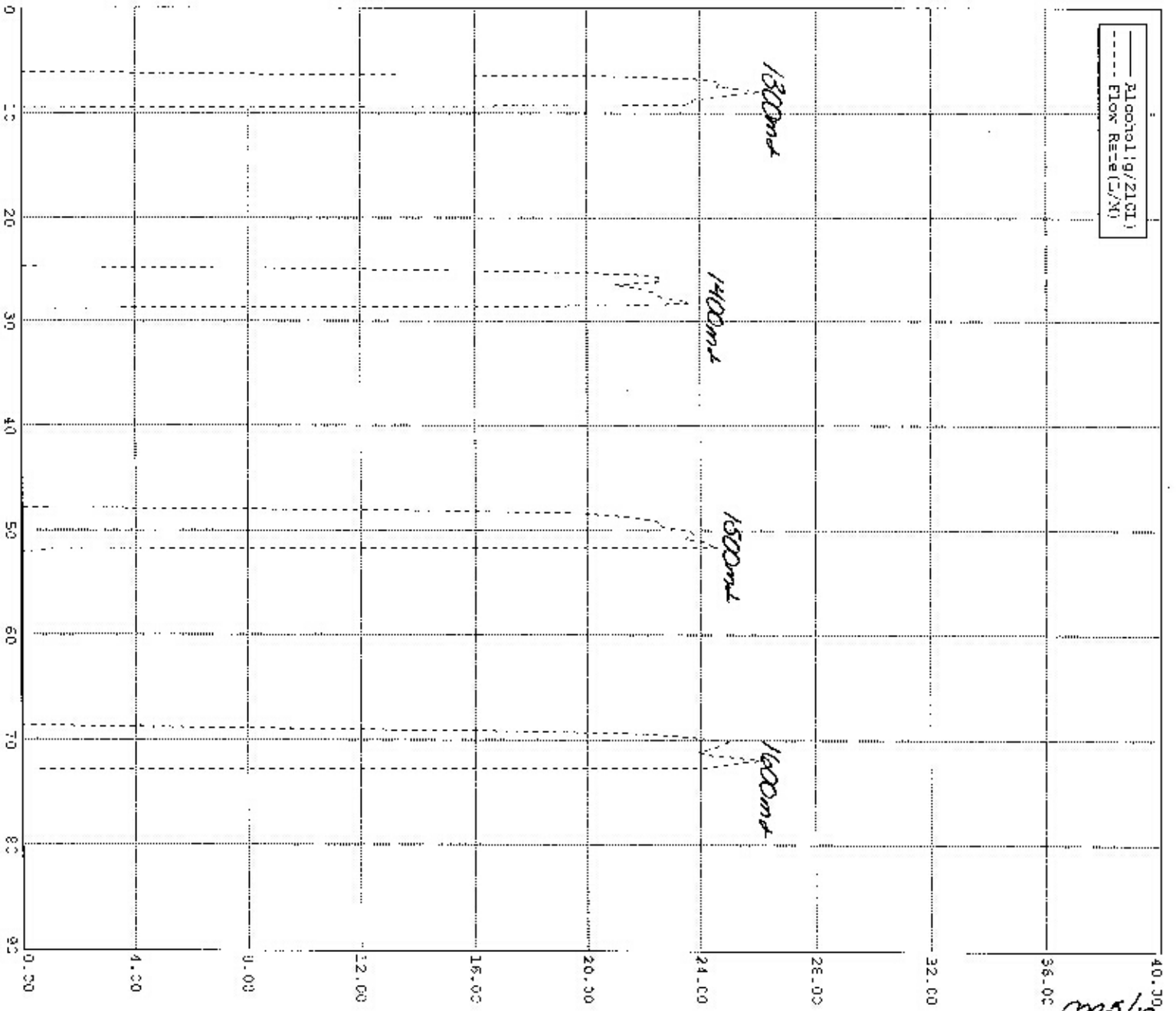
SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST
OPERATOR NAME:
COLLEEN S BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.20: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 16:04
BLANK TEST 0.000 16:04
INTERNAL STANDARD VERIFIED 16:04
EXTERNAL STANDARD 0.081 16:04
BLANK TEST 0.000 16:05
SUBJECT SAMPLE 0.003 16:07
BLANK TEST 0.003 16:08
EXTERNAL STANDARD 0.081 16:08
BLANK TEST 0.000 16:09

CRB



0035/19

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100691

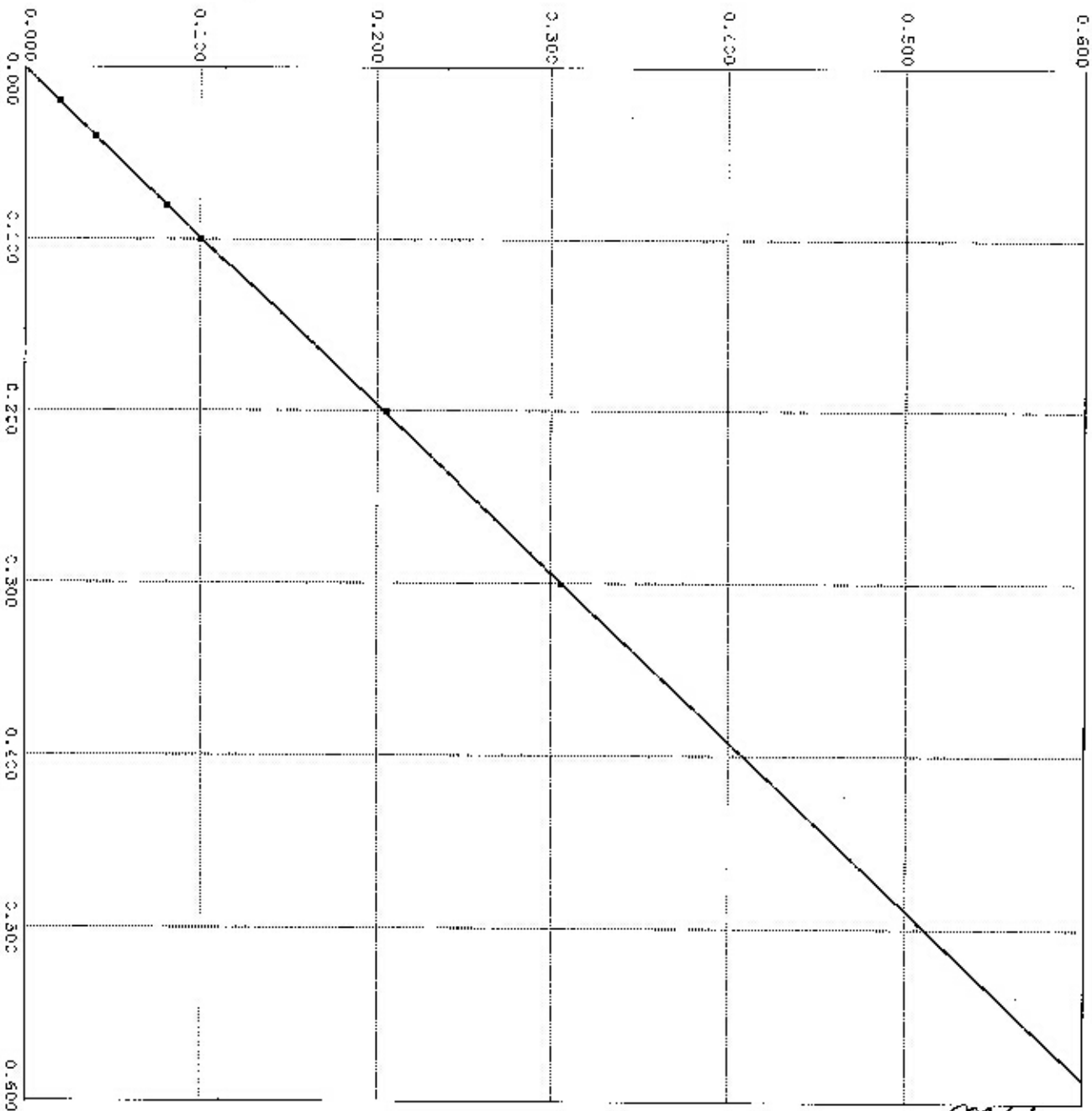
Date: 05/16/2012
 Time: 17:28:28

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0203	0.0002
0.040	0.0408	0.0003
0.080	0.0815	0.0004
0.100	0.1015	0.0001
0.200	0.2061	0.0004
0.300	0.3065	0.0003

SLOPE = 1.024744
 R² = 0.999950

OK



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 103691

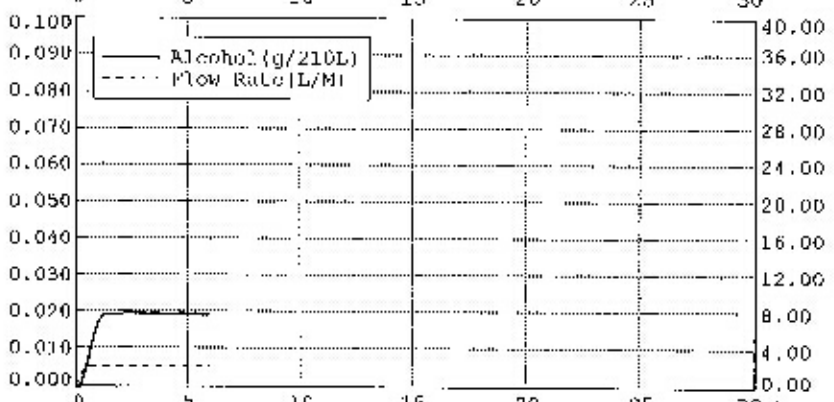
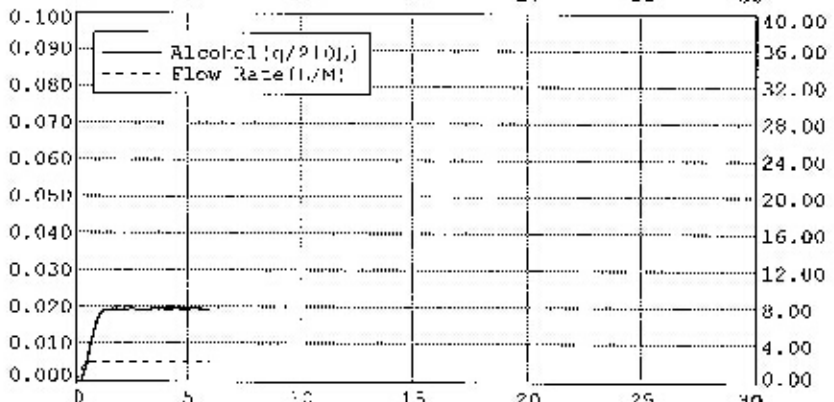
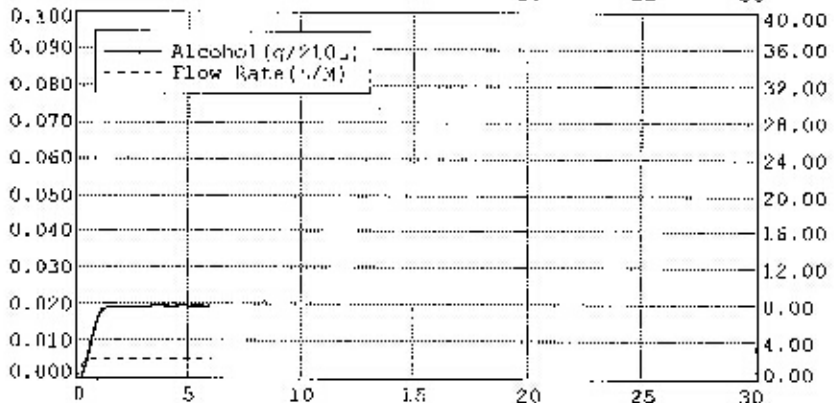
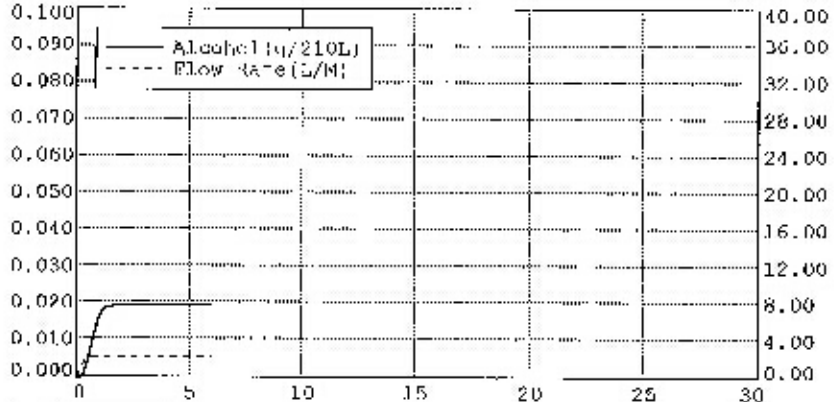
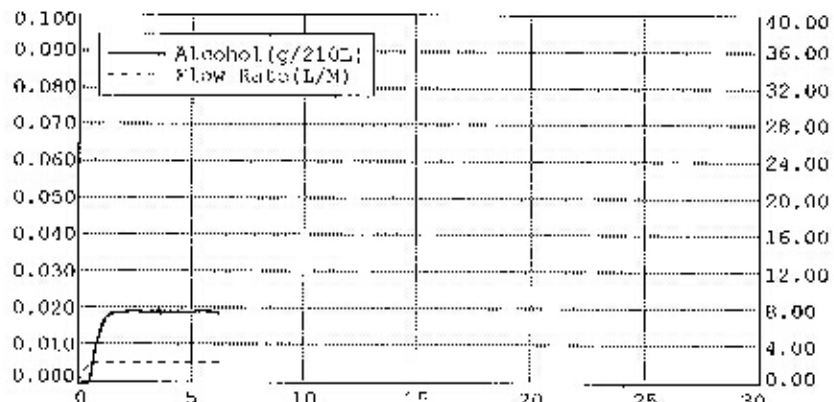
Date: 05/16/2012
 Time: 17:28:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 30.19; 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	17:35
INTERNAL STANDARD	VERIFIED	17:35
EXTERNAL STANDARD	0.019	17:35
BLANK TEST	0.000	17:36
EXTERNAL STANDARD	0.020	17:37
BLANK TEST	0.000	17:37
EXTERNAL STANDARD	0.020	17:38
BLANK TEST	0.000	17:39
EXTERNAL STANDARD	0.020	17:39
BLANK TEST	0.000	17:40
EXTERNAL STANDARD	0.020	17:40
BLANK TEST	0.000	17:41

Average = 0.0203
 Std Dev = 0.0002



0087/19

LINEARITY CHECK: Control Test 2

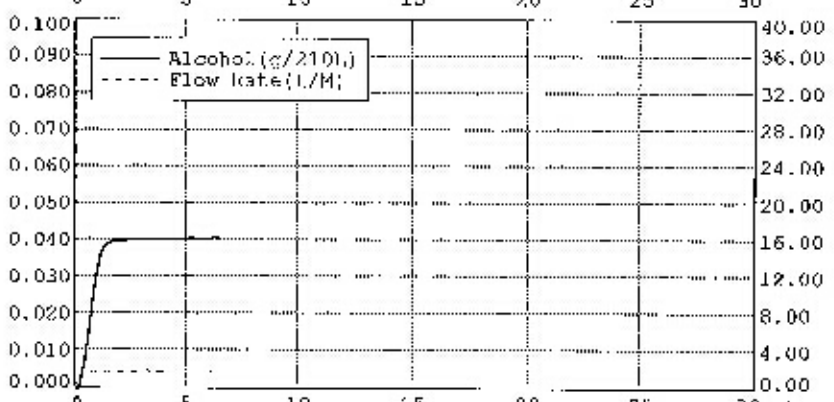
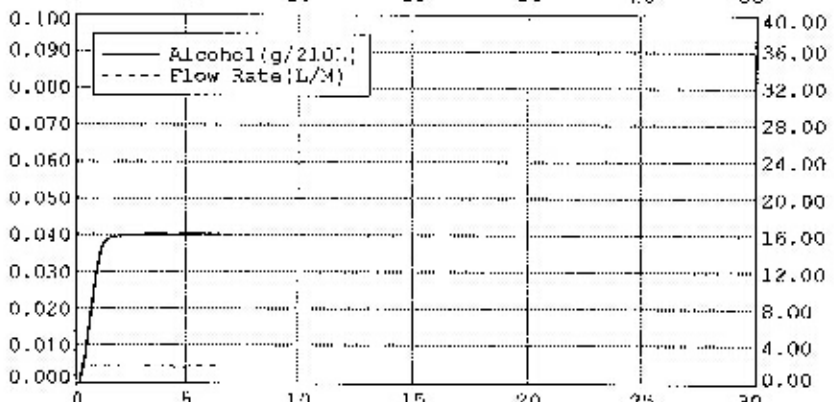
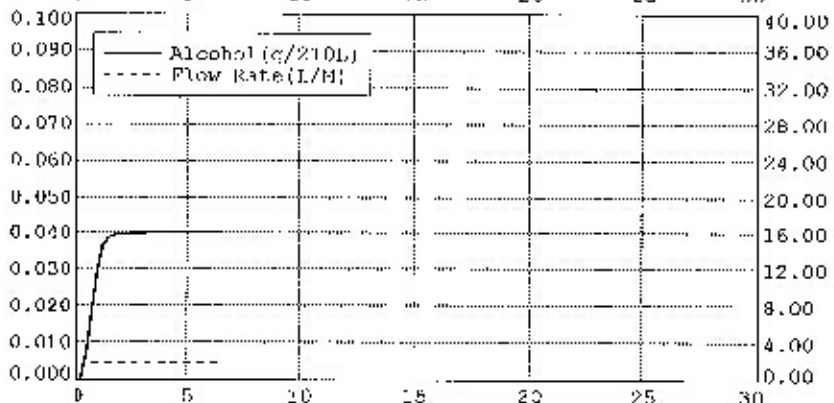
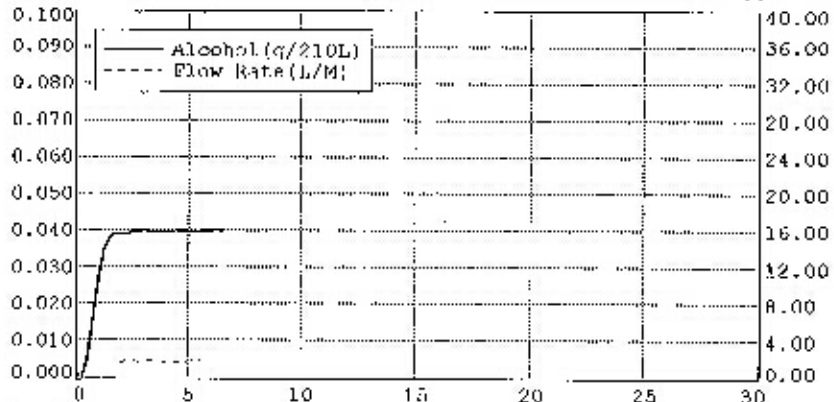
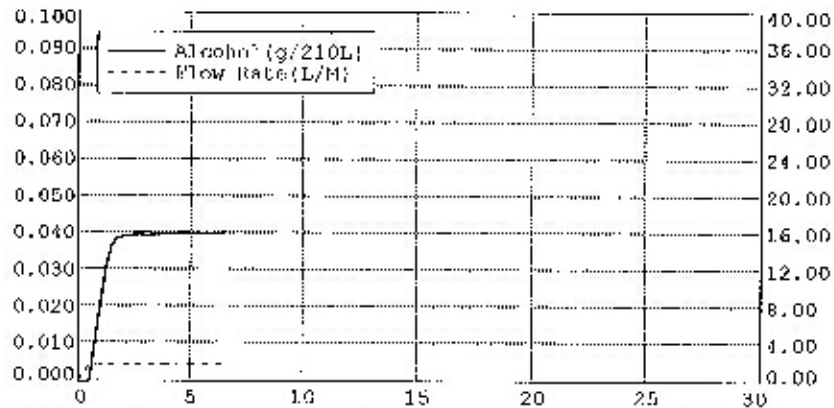
Alaska Department of Public Safety
 DATAMASTER dml; 100691

Date: 05/16/2012
 Time: 17:41:56

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 30.19: 0.040
 LOT #: 07611040A1
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	17:43
INTERNAL STANDARD	VERIFIED	17:43
EXTERNAL STANDARD	0.040	17:43
BLANK TEST	0.000	17:44
EXTERNAL STANDARD	0.040	17:44
BLANK TEST	0.000	17:45
EXTERNAL STANDARD	0.041	17:45
BLANK TEST	0.000	17:46
EXTERNAL STANDARD	0.041	17:46
BLANK TEST	0.000	17:47
EXTERNAL STANDARD	0.041	17:47
BLANK TEST	0.000	17:48

Average = 0.0408
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

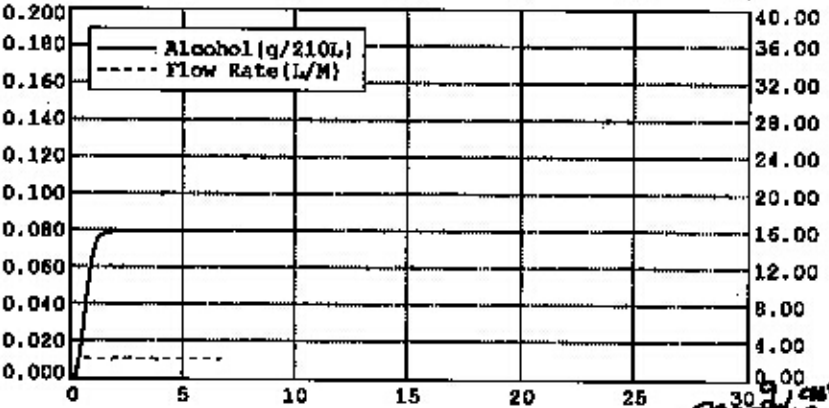
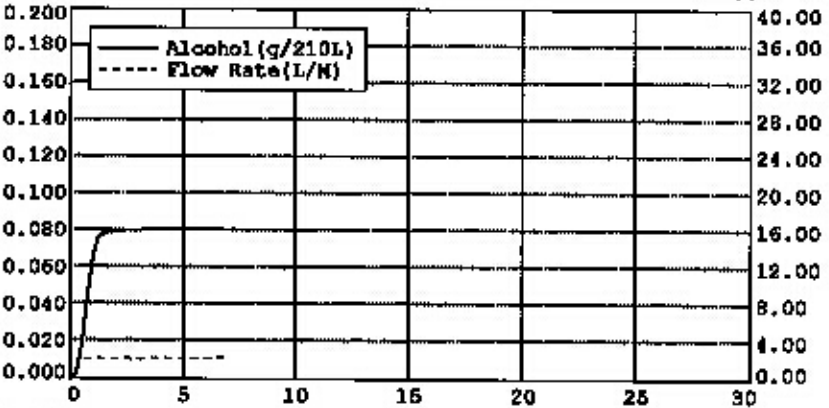
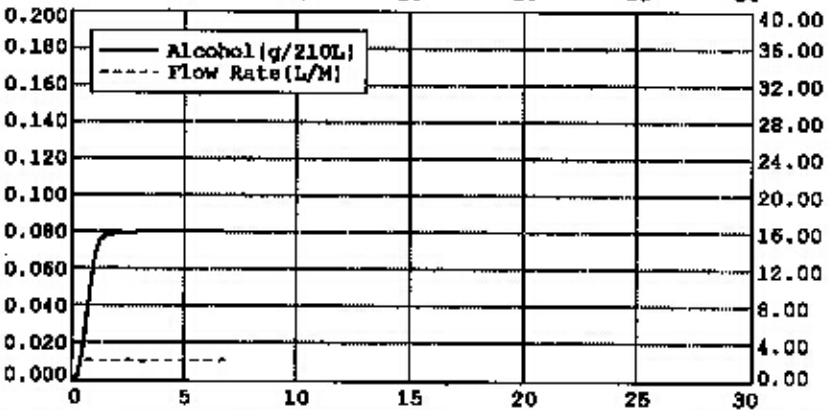
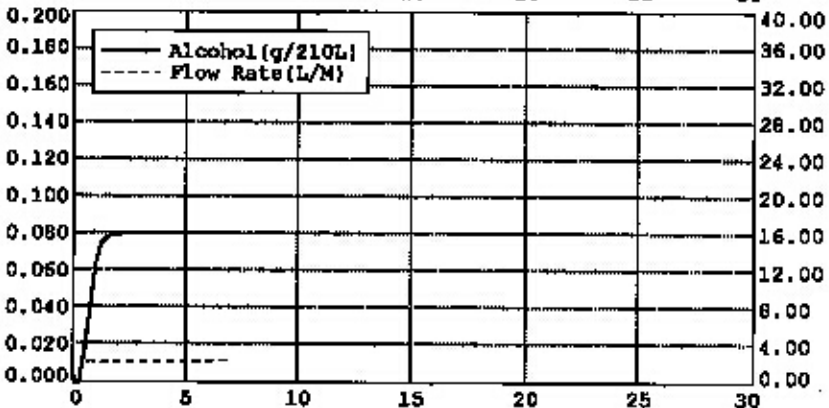
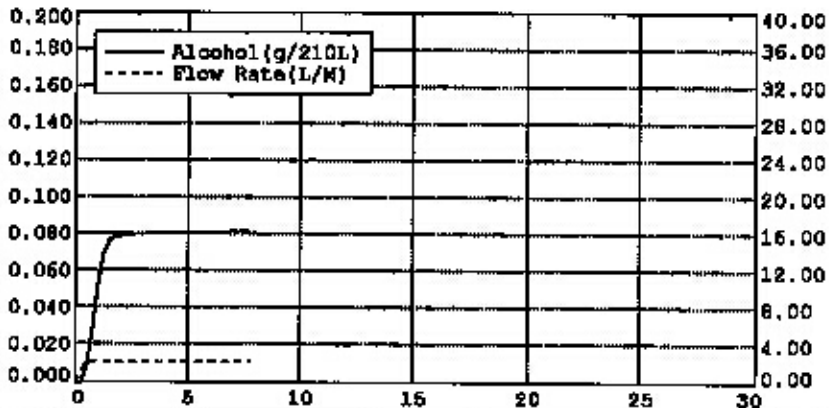
Alaska Department of Public Safety
 DATAMASTER dmt: 100691

Date: 05/16/2012
 Time: 17:49:48

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.19: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	17:51
INTERNAL STANDARD	VERIFIED	17:51
EXTERNAL STANDARD	0.082	17:51
BLANK TEST	0.000	17:52
EXTERNAL STANDARD	0.081	17:52
BLANK TEST	0.000	17:53
EXTERNAL STANDARD	0.081	17:53
BLANK TEST	0.000	17:54
EXTERNAL STANDARD	0.081	17:55
BLANK TEST	0.000	17:55
EXTERNAL STANDARD	0.081	17:56
BLANK TEST	0.000	17:57

Average = 0.0815
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATA MASTER dmt; 100691

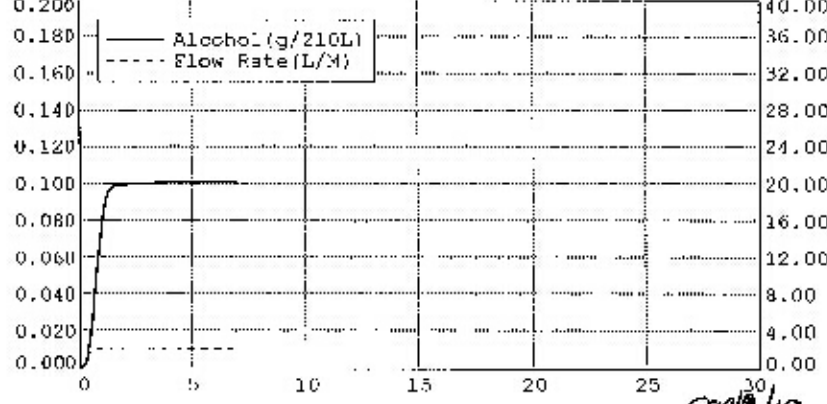
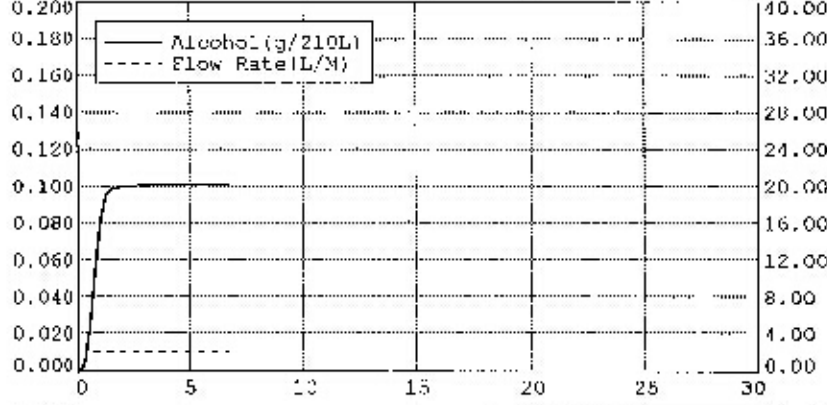
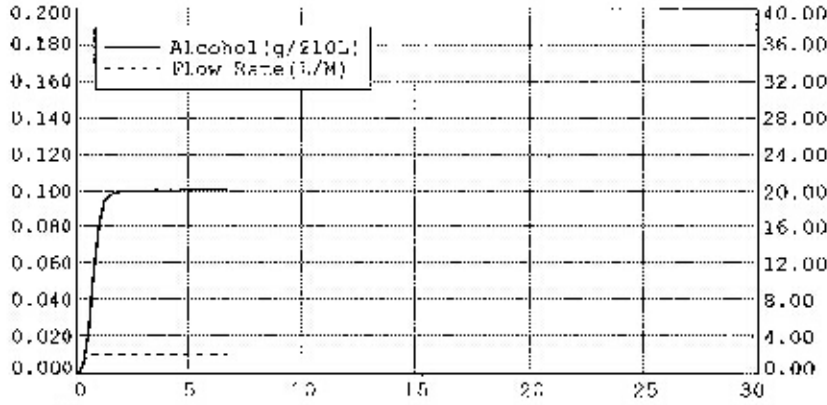
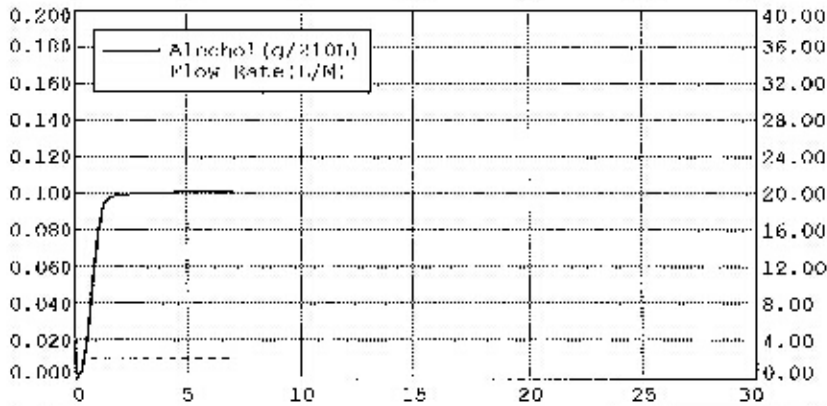
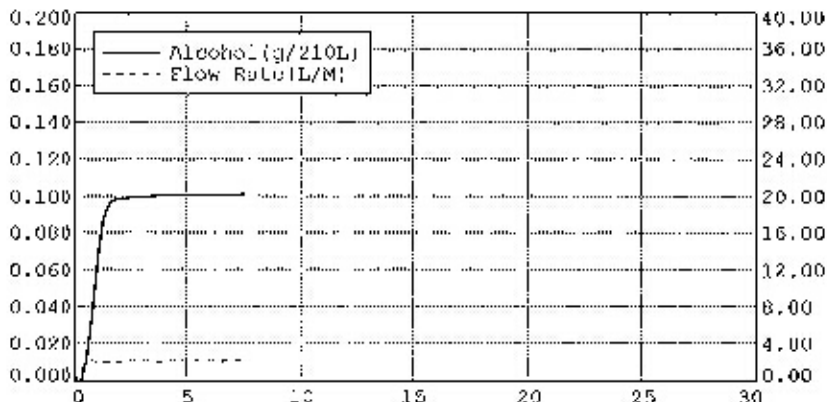
Date: 05/16/2012
 Time: 17:58:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 30.19: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	18:05
INTERNAL STANDARD	VERIFIED	18:05
EXTERNAL STANDARD	0.101	18:05
BLANK TEST	0.000	18:06
EXTERNAL STANDARD	0.101	18:06
BLANK TEST	0.000	18:07
EXTERNAL STANDARD	0.101	18:08
BLANK TEST	0.000	18:08
EXTERNAL STANDARD	0.101	18:09
BLANK TEST	0.000	18:10
EXTERNAL STANDARD	0.101	18:10
BLANK TEST	0.000	18:11

Average = 0.1015
 Std Dev = 0.0001



05/19

LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dat: 100691

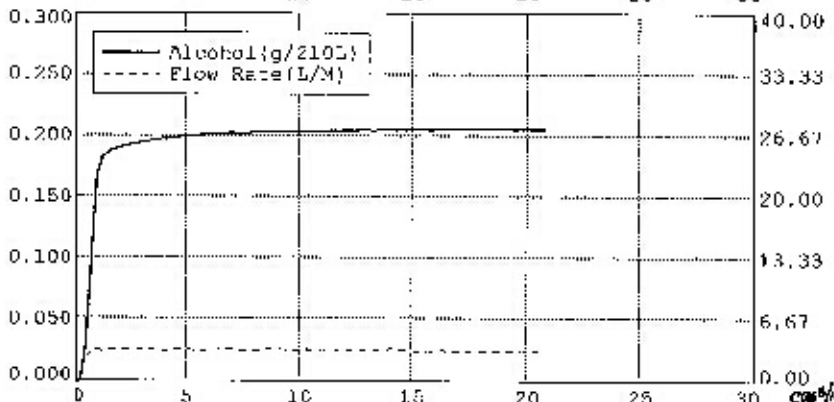
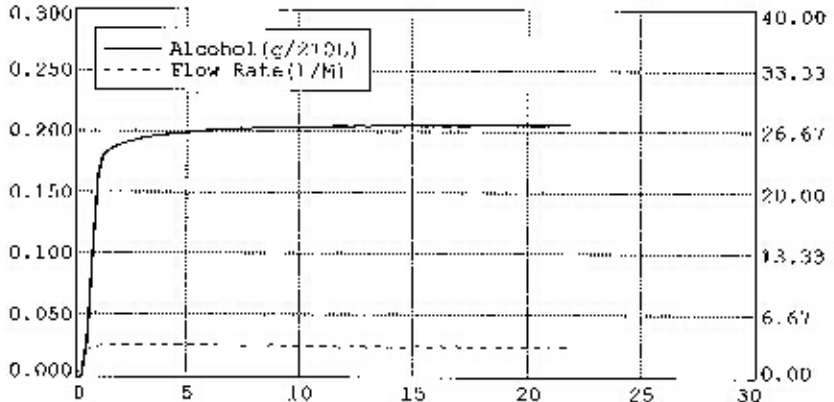
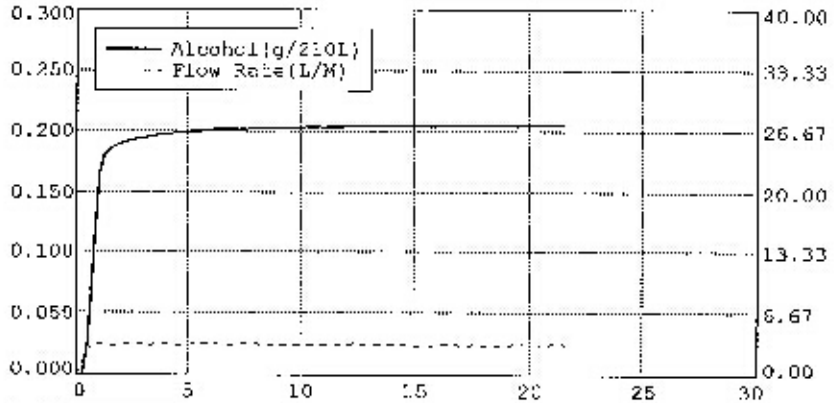
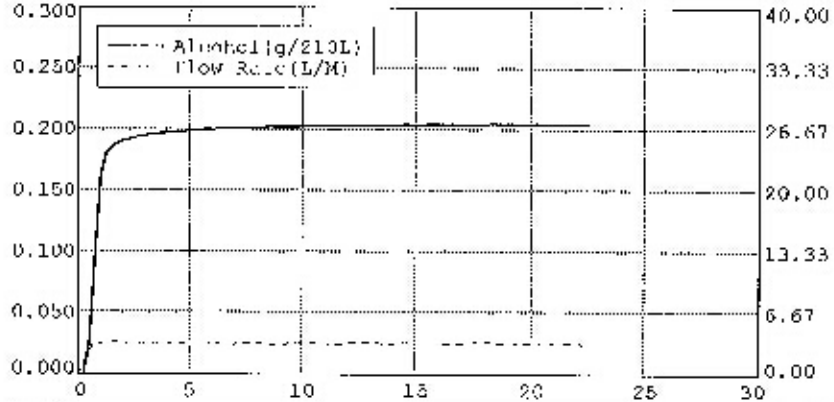
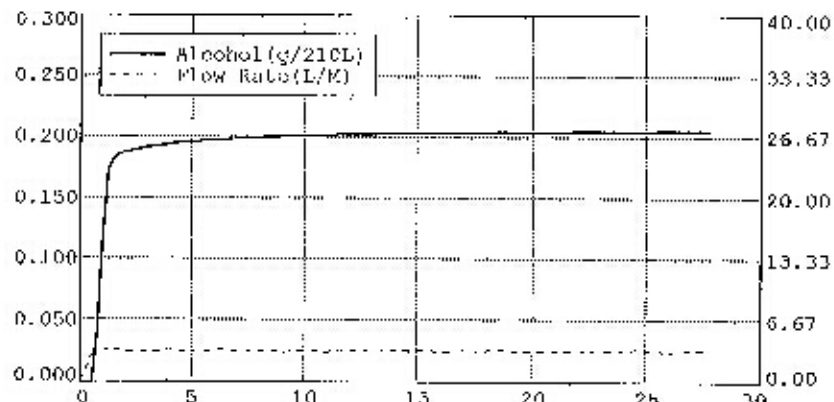
Date: 05/16/2012
 Time: 18:11:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
 LOT #: 11120
 EXPIRATION: 07/19/2013

BLANK TEST	0.000	18:14
INTERNAL STANDARD	VERIFIED	18:14
EXTERNAL STANDARD	0.205	18:15
BLANK TEST	0.000	18:16
EXTERNAL STANDARD	0.205	18:16
BLANK TEST	0.000	18:17
EXTERNAL STANDARD	0.206	18:18
BLANK TEST	0.300	18:19
EXTERNAL STANDARD	0.206	18:19
BLANK TEST	0.000	18:20
EXTERNAL STANDARD	0.206	18:20
BLANK TEST	0.000	18:21

Average = 0.2061
 Std Dev = 0.0004



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 COS 11/19

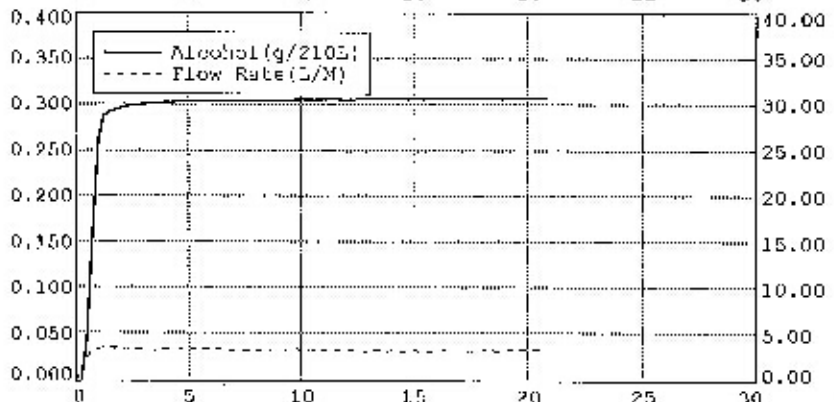
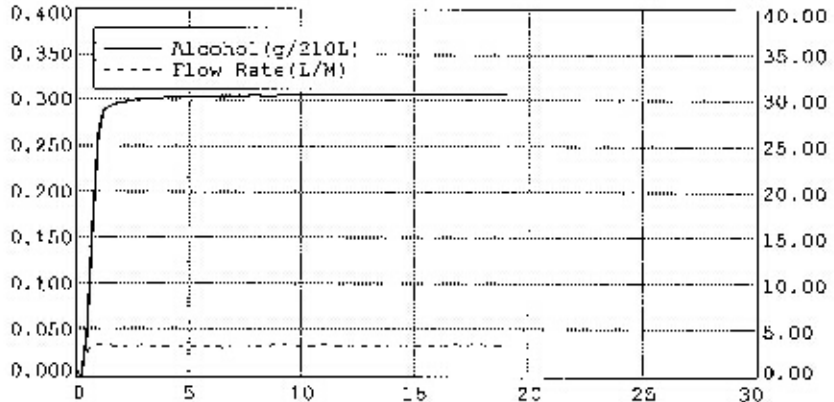
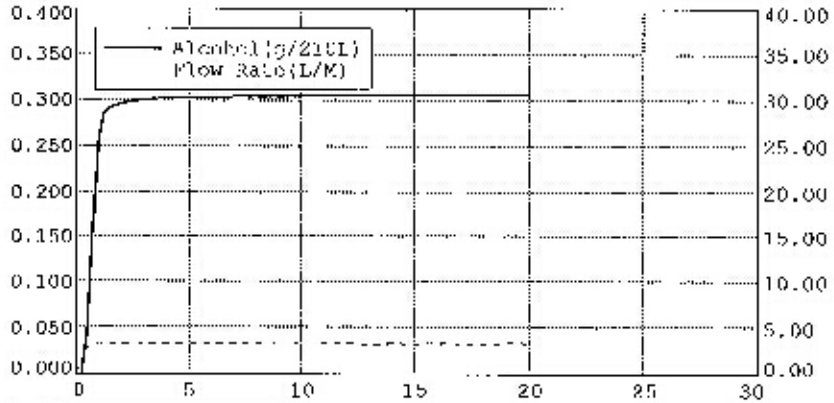
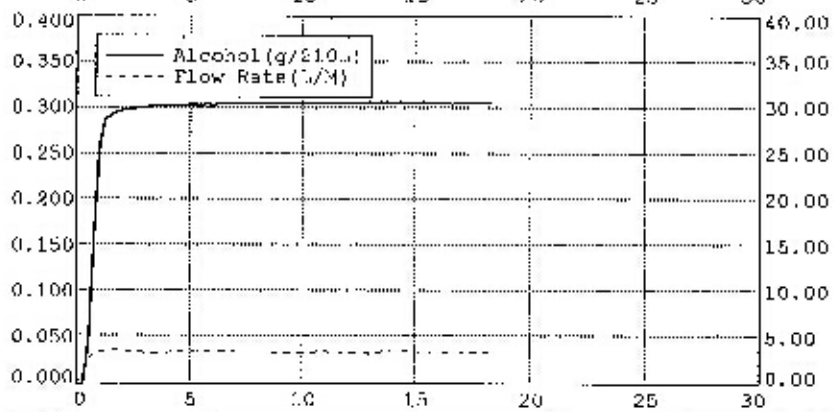
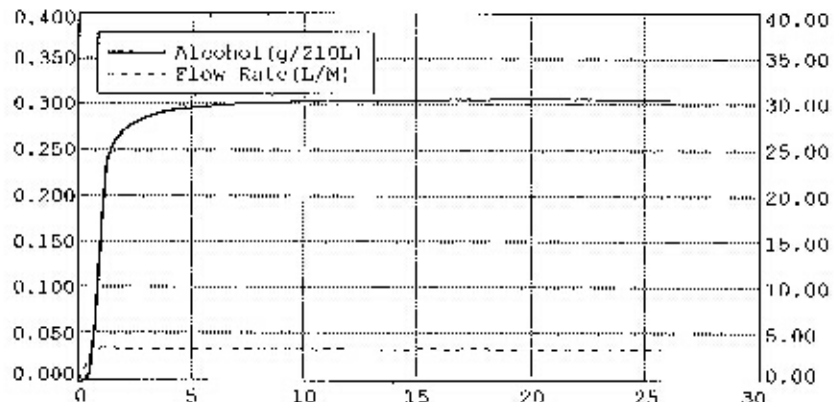
LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dat: 100691Date: 05/16/2012
Time: 10:24:33

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	18:25
INTERNAL STANDARD	VERIFIED	18:26
EXTERNAL STANDARD	0.306	18:26
BLANK TEST	0.000	18:27
EXTERNAL STANDARD	0.306	18:28
BLANK TEST	0.000	18:29
EXTERNAL STANDARD	0.306	18:29
BLANK TEST	0.000	18:30
EXTERNAL STANDARD	0.306	18:30
BLANK TEST	0.000	18:31
EXTERNAL STANDARD	0.306	18:32
BLANK TEST	0.000	18:33

Average = 0.3065
Std Dev = 0.0003

COB 12/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100691

Date: 05/17/2012
Time: 10:34:27

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

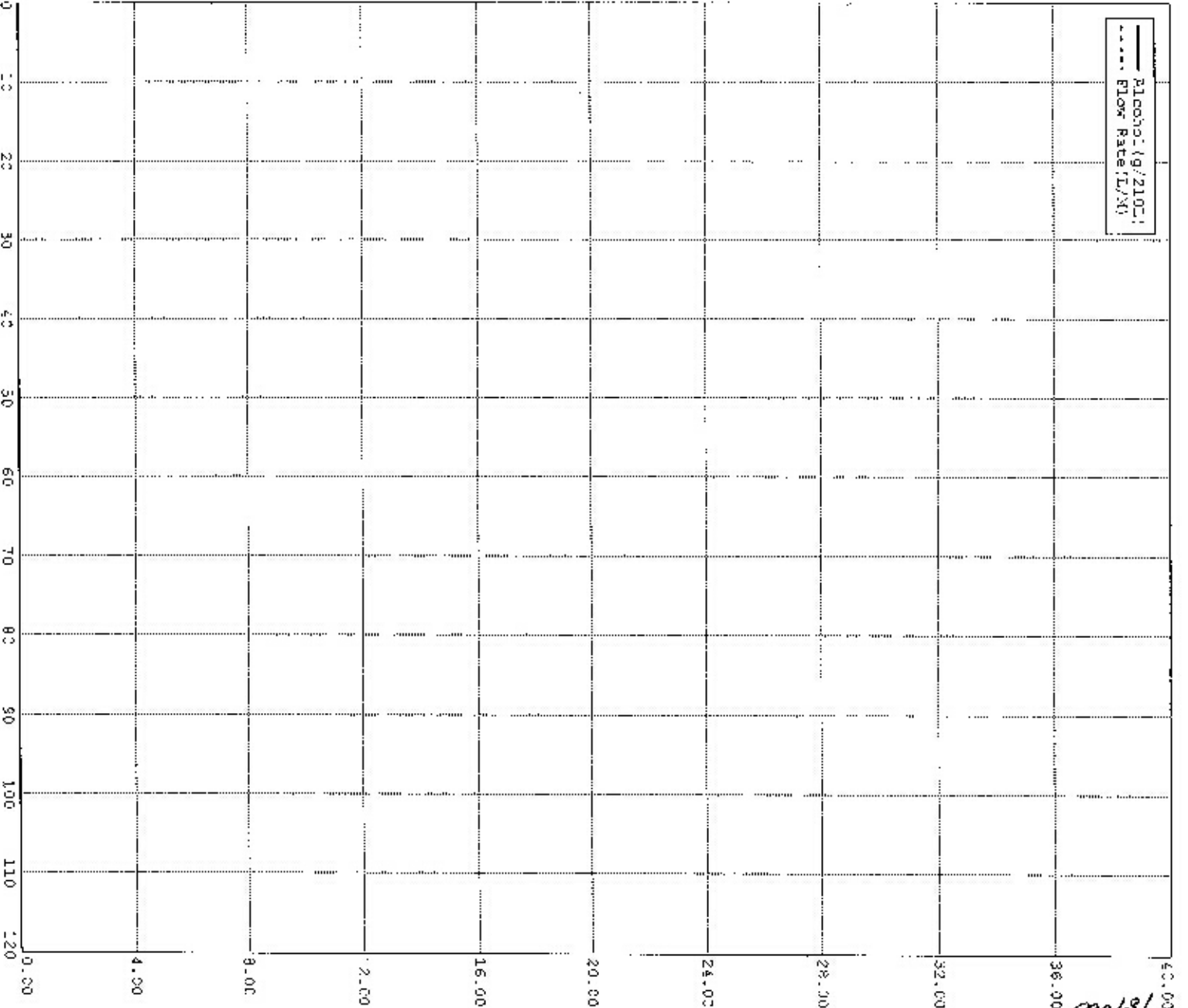
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
MONTMAY: G.080
TARGET AT 30.10: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.080	10:37
BLANK TEST	0.000	10:38
SUBJECT SAMPLE	INCOMPLETE	10:40

COB



SUBJECT TEST

Alaska Department of Public Safety
LABMASTER dmt: 100691

Date: 05/17/2012
Time: 10:42:53

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

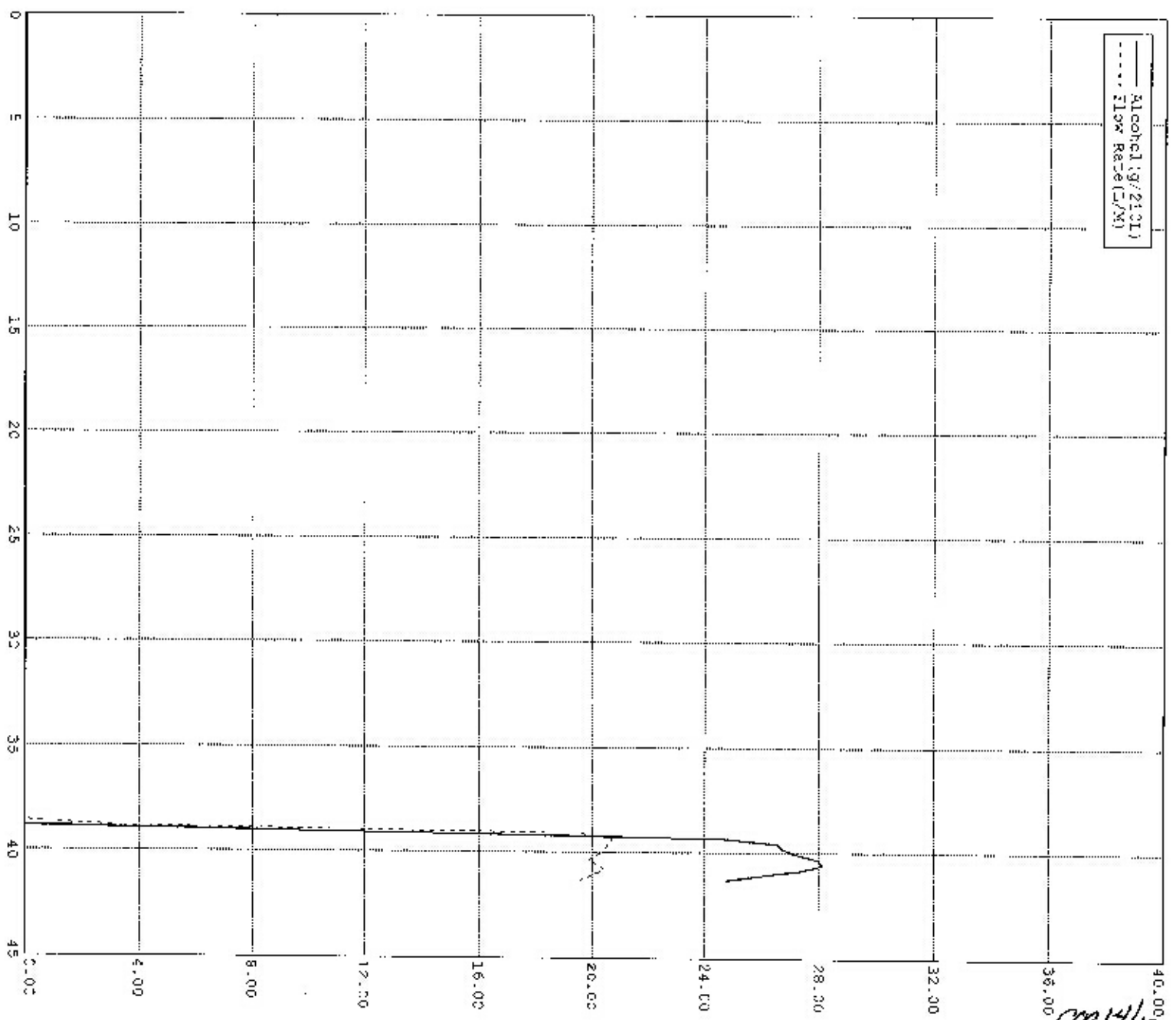
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:44
BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:44
EXTERNAL STANDARD	0.080	10:44
BLANK TEST	0.000	10:45
SUBJECT SAMPLE	INVALID	10:46

COB



COB 14/19

SUBJECT TEST

Alaska Department of Public Safety
 DATUMS#R dnt: 100691

Date: 05/17/2012
 Time: 11:00:36

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACERONE

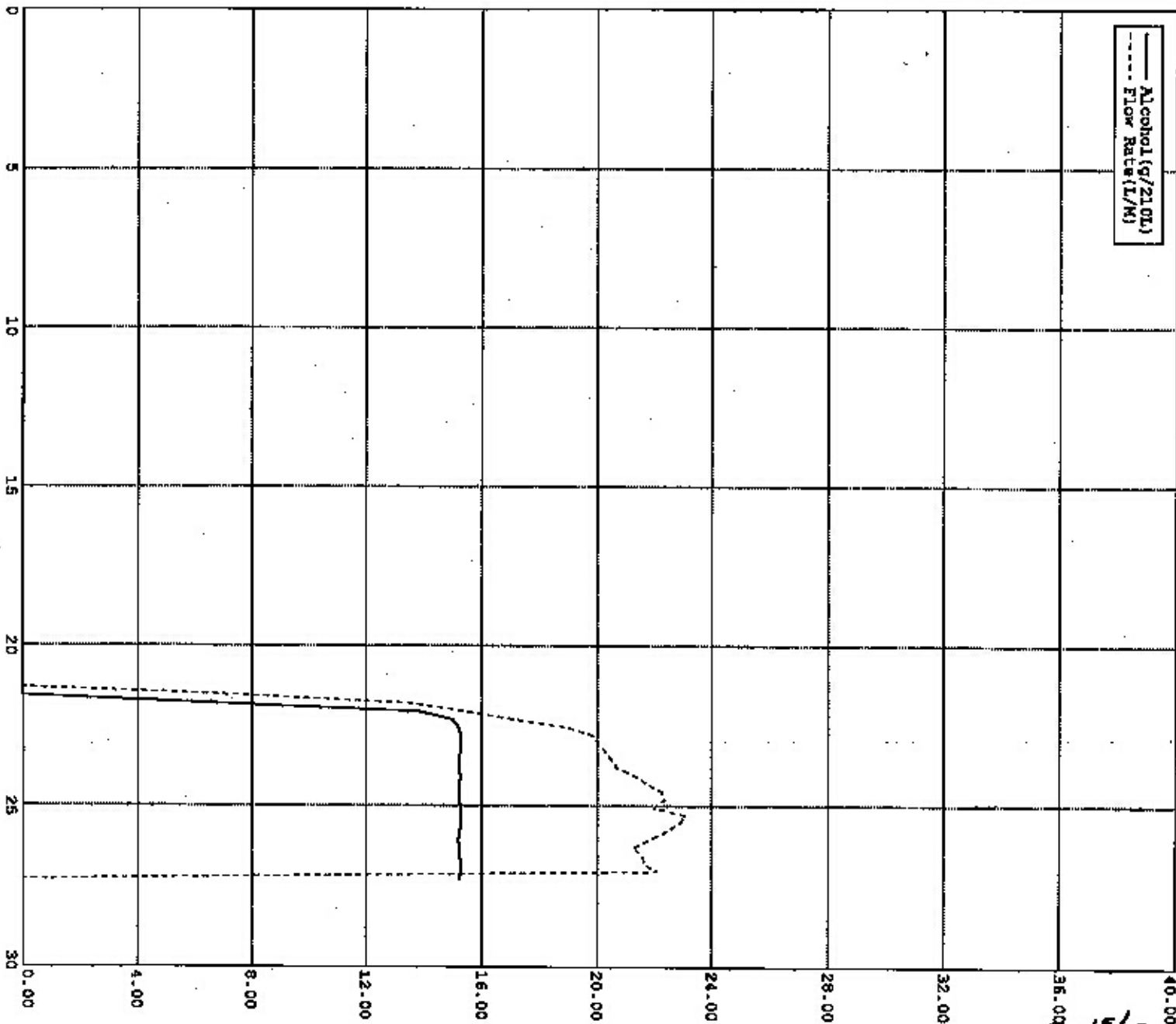
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET NR 30.10: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:02
BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
XQ = 0.091 (0.95%)		
EXTERNAL STANDARD	0.081	11:02
X[1] = 0.0816 (0.0009)	(0.0026)	
BLANK TEST	0.000	11:03
SUBJECT SAMPLE	INTERFERENCE	11:03
X[1] = 0.0764 (-0.0094)	(0.0008)	

NRB



COB 15/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 10089_

Date: 05/17/2012
Time: 11:07:20

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

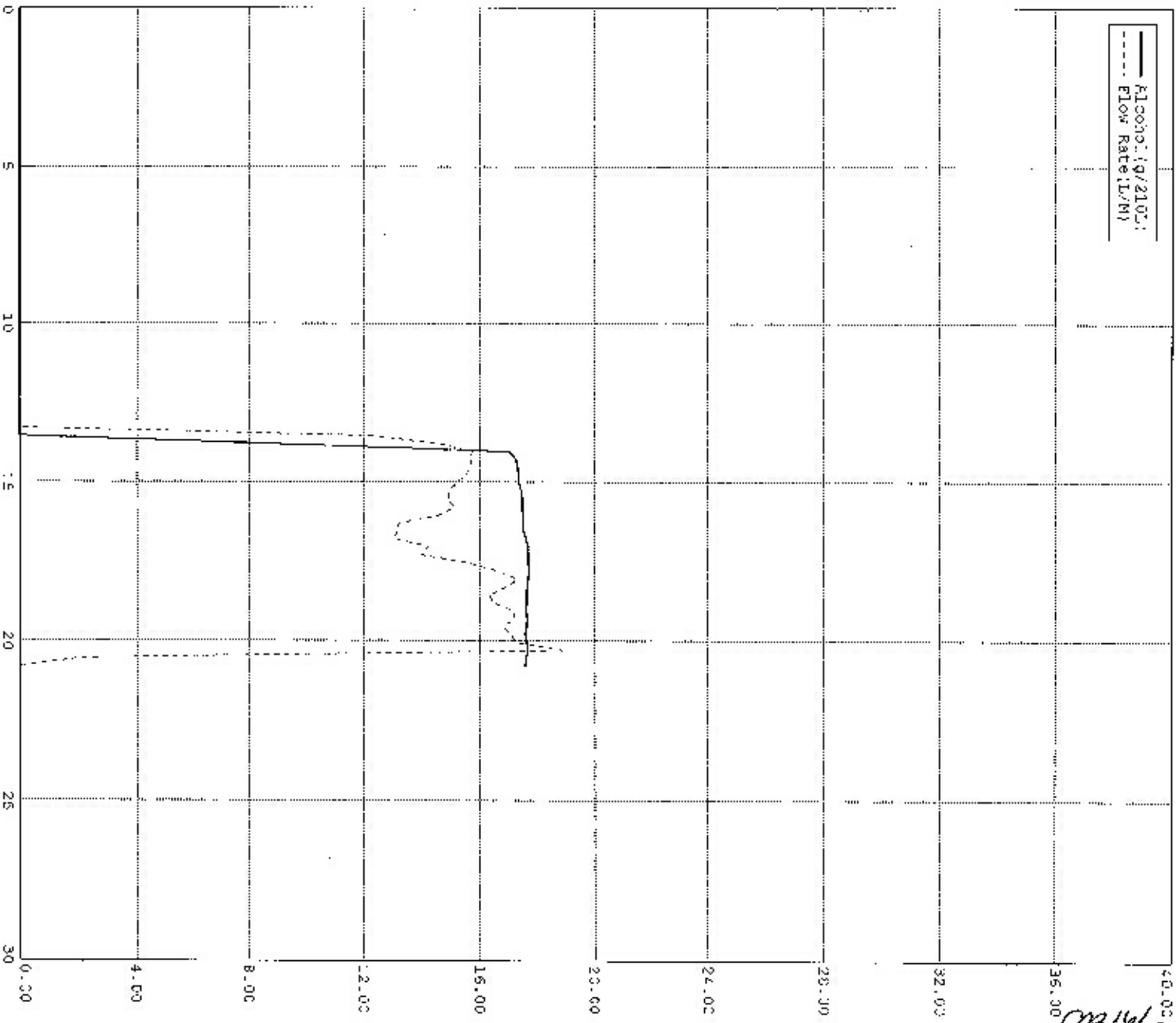
OPERATOR NAME:
COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:
AAAI
CASE/REPORT: 12 3234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.093
TARGET AT 30.09: 0.083
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	11:09
INTERNAL STANDARD	VERIFIED	11:09
X1 = 0.09 (0.858%)		
EXTERNAL STANDARD	0.081	11:10
X[1] = 0.0812 (0.0022)		
BLANK TEST	0.000	11:10
SUBJECT SAMPLE	INTERFERENCE	11:11
X[1] = 0.0883 (-0.0234)		

OK



003 14/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER det: 100691

Date: 05/17/2012
 Time: 10:50:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: TWD-NWS

OPERATOR NAME:
 COLLIER S CORRYANT
 OPERATOR'S #: 6737

DEPT/AGENCY:

AAA1

CASE/REPORT: 12-1234
 TEST TYPE: TEST

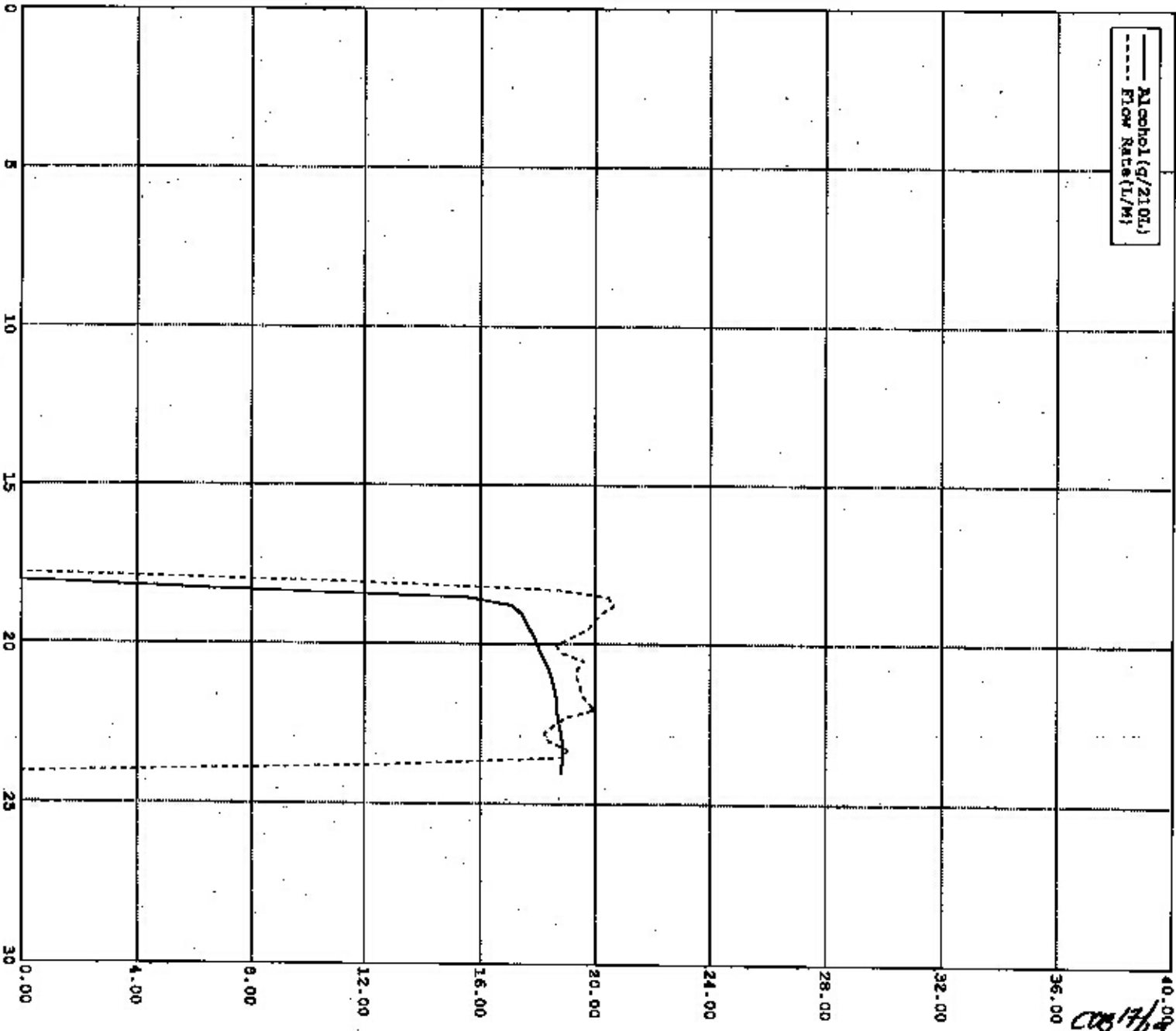
EXTERNAL STANDARD INFORMATION

RECORDAL: 0.080
 TARGET AT 30.10: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

TEST TYPE	RESULT	TIME
BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:52
Xq = 0.091 (1.33%)	0.080	10:52
EXTERNAL STANDARD	X[1] = 0.0803 (-0.0014) (0.0029)	10:53
BLANK TEST	0.000	10:53
SUBJECT SAMPLE (Vol=1.87L)	0.093	10:53
X[1] = 0.0939 (0.0010) (0.0015)	0.000	10:54
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.080	10:54
X[1] = 0.0808 (0.0012) (0.0025)	0.000	10:55
BLANK TEST	0.000	10:55

MS



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100691

Date: 05/17/2012
Time: 11:13:23

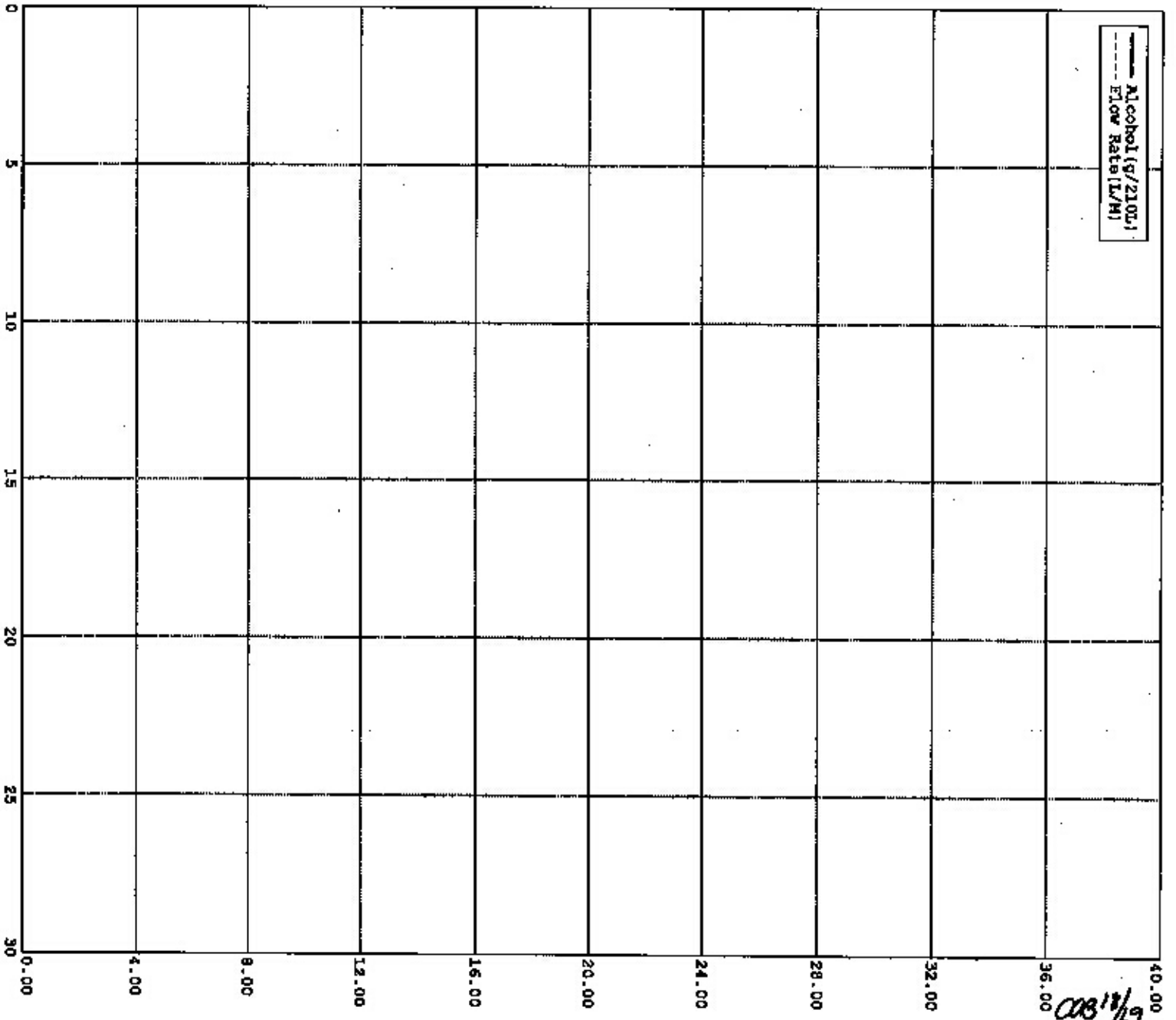
SUBJECT NAME:
TEST TEST
LICENSE #: RFL

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

DEPT/AGENCY:
AAAI
CASE/REPORT: 12-123
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.09: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 11:25
INTERNAL TEST 0.000 11:25
EXTERNAL STANDARD VERIFIED 11:25
INTERNAL STANDARD 0.001 11:25
BLANK TEST 0.000 11:26
RFL DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE dnt: 100691

Date: 05/17/2012
 Time: 12:00:23

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

DEPT/AGENCY:

AAAI

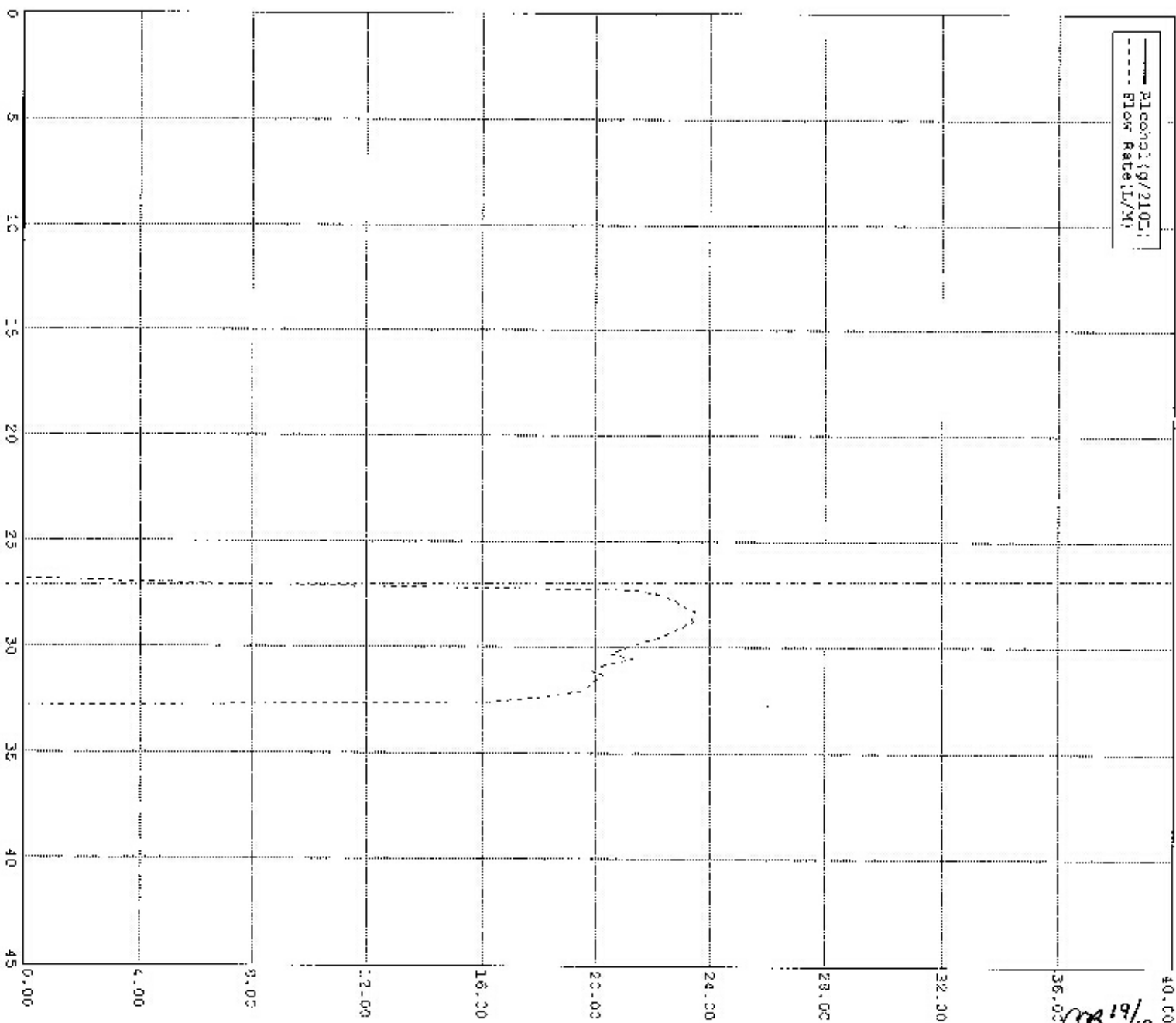
CASE/REPORT: 12-123
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAT: 0.080
 TARGET AT 30.08: 0.080
 LOT #: 0201208021
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
EXTERNAL STANDARD	0.081	12:02
BLANK TEST	0.000	12:02
SUBJECT SAMPLES	0.000	12:03
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.081	12:04
BLANK TEST	0.000	12:05

CS



Final page for report

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2/12/2014