

# Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

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

Version: DMCEF2012 R1  
Status: Active

Instrument S/N 100388 Analyst Colleen O'Bryant Start Date 5/16/12

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 1400 mL (1.3L to 1.7L)

### 4. Linearity Test (attached)

- a. Levels Used 
  - i. 0.020g/210L Mnf ILMO Lot 0761102095 Exp 03/01/2013
  - ii. 0.040g/210L Mnf ILMO Lot 0761104044 Exp 03/01/2013
  - iii. 0.080g/210L Mnf ILMO Lot 0201308041 Exp 03/01/2014
  - iv. 0.100g/210L Mnf ILMO Lot 076110093 Exp 03/01/2013
  - v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/2013
    - 1. Simulator S/N SD1176 Date Calibrated 08/17/2011
  - vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/19/2013
    - 1. Simulator S/N DR4176 Date Calibrated 02/01/2012

### 5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference 
  - i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/2013
    - 1. Simulator S/N SD1199 Date Calibrated 01/11/2012
  - ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/2012
    - 1. Simulator S/N DR6267 Date Calibrated 01/10/2012
  - iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 10/06/2013
    - 1. Simulator S/N ~~DR4176~~ <sup>CR816/18</sup> SD1308 Date Calibrated ~~02/01/2012~~ <sup>02/05/2012</sup> 5/17/2012
- 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 5/17/2012

DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dnt: 100388  
-----

Date: 05/16/2012  
Time: 12:36:38

VERSIONS

DMT: 2.00  
PIC: 3.02  
Modem: 2.3  
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C            PASSED  
Breath Tube     = 47.6°C            PASSED

PUMP INFO

Flow Rate = 5.687 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

Technician Screen

-----  
DATAMASTER dat: 100388  
-----

Date: 05/16/2012  
Time: 12:48 PM

Temperatures (°C)

Sample Cell: 49.0°C  
Breath Tube: 46.2°C

Current Barometer 30.2 in  
Volume (ltr) 1.55

Settings

Lamp: 1.78 V  
Bias: 80 V  
Cooler: 1.56 V  
Chopper: 530 Hz

Voltages (V)

Flow: 1.05 V  
Detector: -0.004 V

## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100388  
-----

Date: 05/02/2011  
Time: 14:23:26

OPERATOR NAME:  
COLLEEN S O'BRYANT  
CERTIFICATE #: 5237

LOT #: GUTH100  
BOTTLE #: 10260  
EXPIRATION: 10/25/2012

Ca	=	0.1000		
CAL	=	0.991067	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0002	0.0000	<= b3 < 0.0040
Xq	=	0.0956	0.0500	<= Xq < 0.2000
a21	=	1.153567	1.050	<= a21 < 1.300
a31	=	0.559289	0.300	<= a31 < 0.800

COB 4/19

SUBJECT TEST

Alaska Department of Public Safety  
 DATAWATER dmt: 100388

Date: 05/16/2012  
 Time: 12:50:01

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: YOUNG TEST

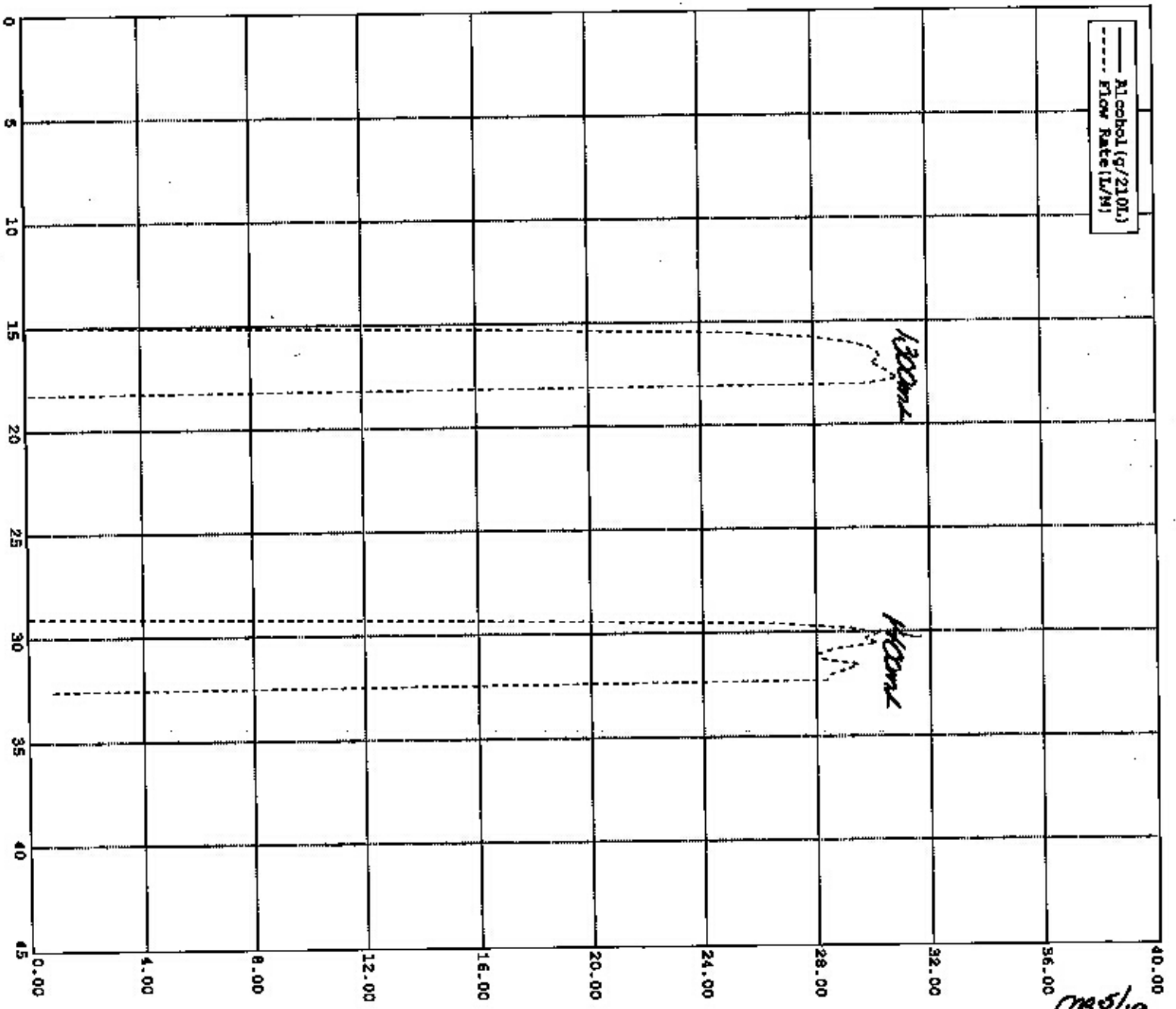
OPERATOR NAME:  
 COLLEEN S O'BRYANT  
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
 MONITOR: 0.080  
 TARGET AT 30.23: 0.080  
 ICF #: 02012080A1  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:51
BLANK TEST	0.000	12:52
INTERNAL STANDARD	0.091	12:52
EXTERNAL STANDARD	0.000	12:53
BLANK TEST	0.000	12:53
SUBJECT SAMPLE	0.000	12:54
BLANK TEST	0.081	12:55
EXTERNAL STANDARD	0.000	12:55
BLANK TEST	0.000	12:55

*CS*



**LINEARITY CHECK**

Alaska Department of Public Safety  
 DATUMMASTER dtd: 100388

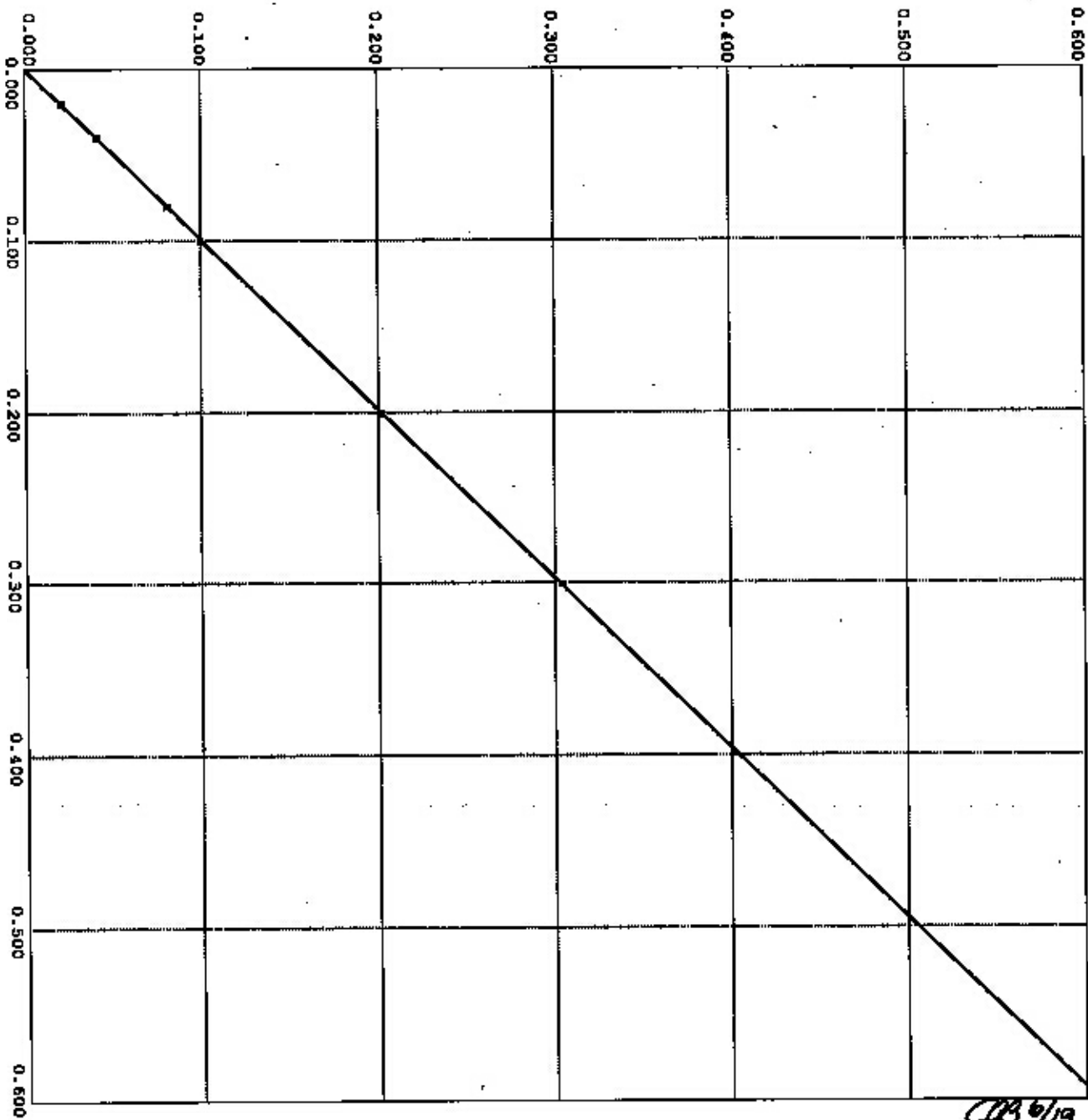
Date: 05/16/2012  
 Time: 14:23:29

SUPERVISOR NAME:  
 COLLIER S CHRYSTAL  
 OPERATOR'S #: 5237

TARGET	AVERAGE	STD. DEV.
0.020	0.0210	0.0002
0.040	0.0414	0.0003
0.080	0.0810	0.0002
0.100	0.1013	0.0002
0.200	0.2022	0.0006
0.300	0.3048	0.0003

SLOPE = 1.012880  
 R² = 0.999973

*CR*



*CRB 6/19*



LINEARITY CHECK: Control Test 1

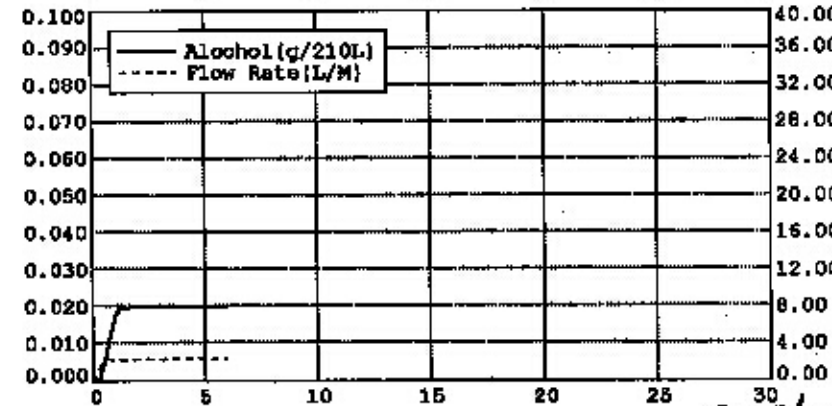
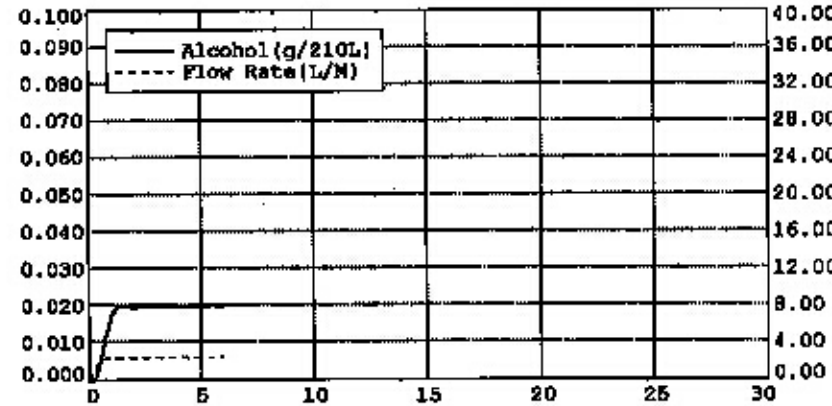
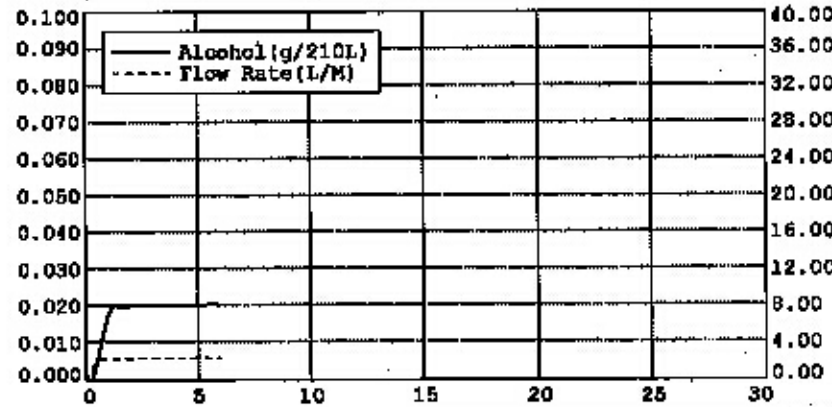
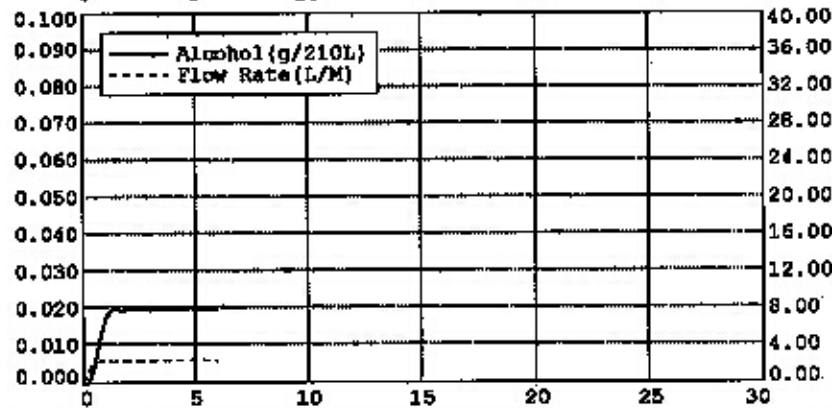
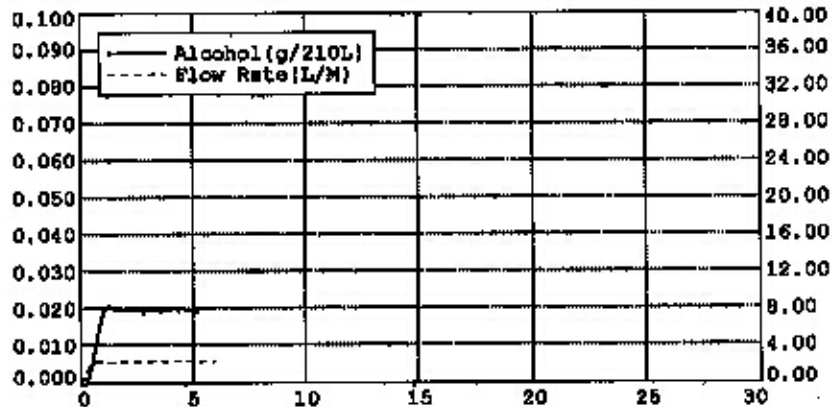
Alaska Department of Public Safety  
 DATEMASTER dnt: 100388

Date: 05/16/2012  
 Time: 14:23:30

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 30.21: 0.020  
 LOT #: 07611020A5  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:25
EXTERNAL STANDARD	0.021	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.020	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.021	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.021	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.021	14:29
BLANK TEST	0.000	14:30

Average = 0.0210  
 Std Dev = 0.0002



CBS 7/19

LINEARITY CHECK: Control Test 2

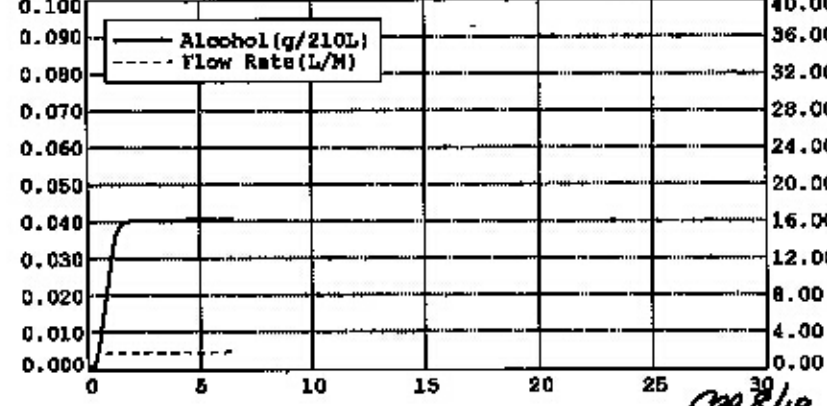
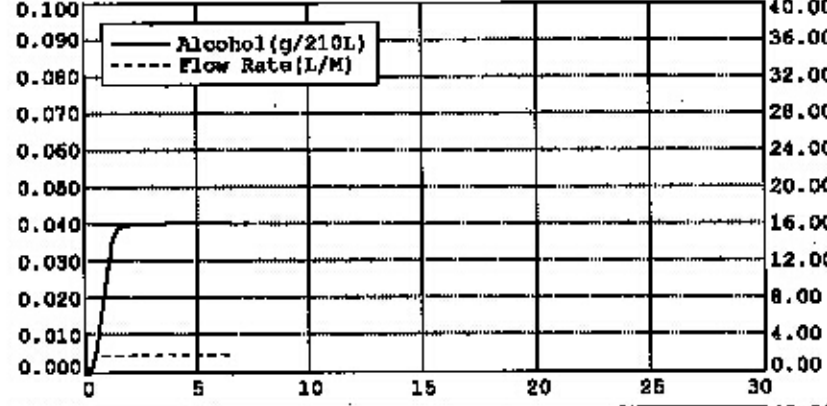
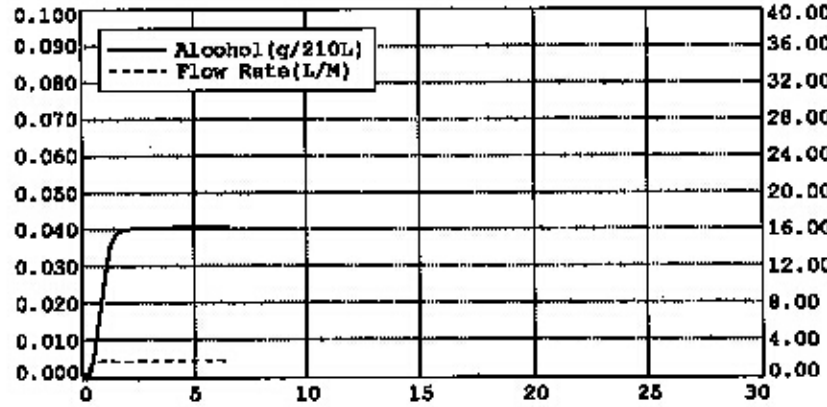
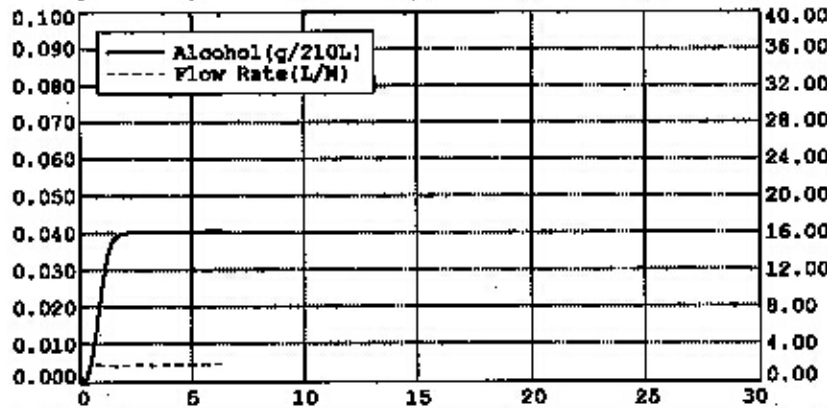
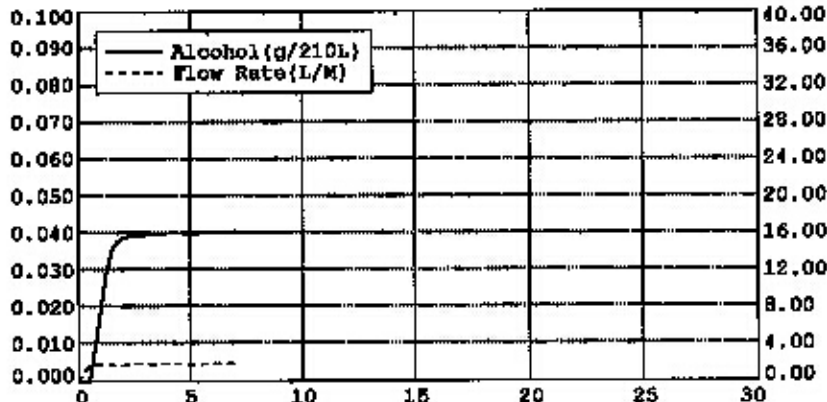
Alaska Department of Public Safety  
 DATAMASTER dnt: 100388

Date: 05/16/2012  
 Time: 14:31:56

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.040  
 TARGET AT 30.21; 0.040  
 LOT #: 076110400A  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.041	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.041	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.041	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.041	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.041	14:39
BLANK TEST	0.000	14:39

Average = 0.0414  
 Std Dev = 0.0003



008/19



## LINEARITY CHECK: Control Test 3

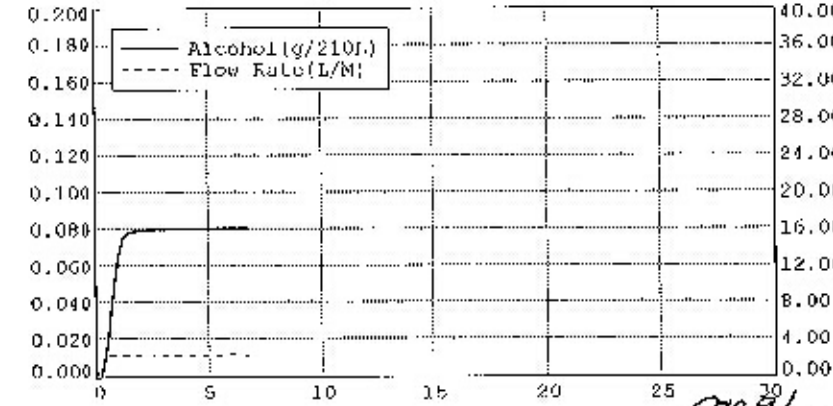
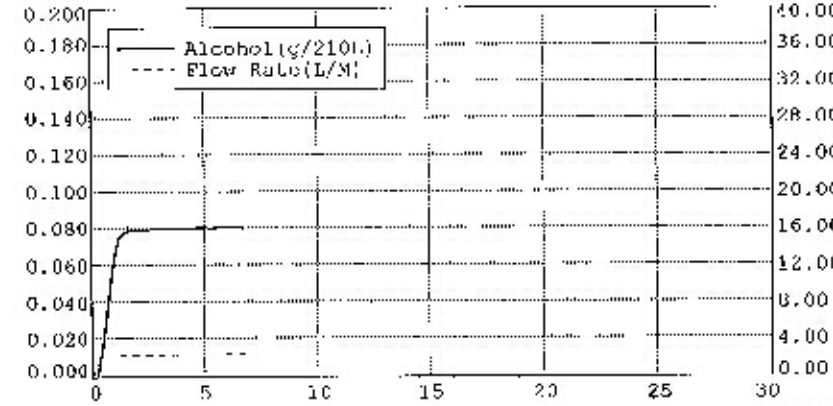
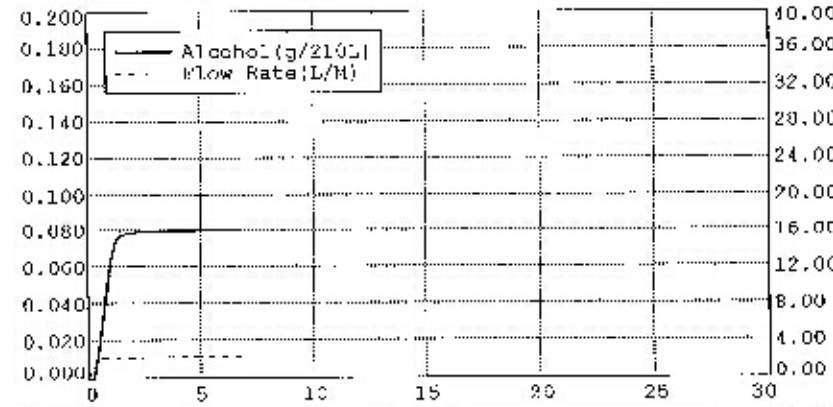
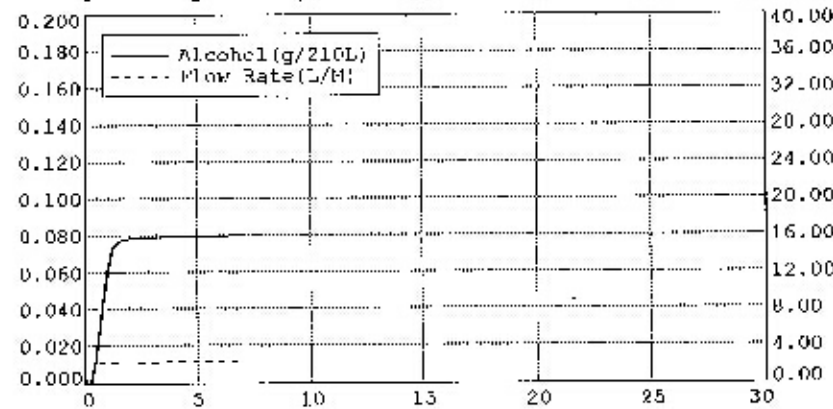
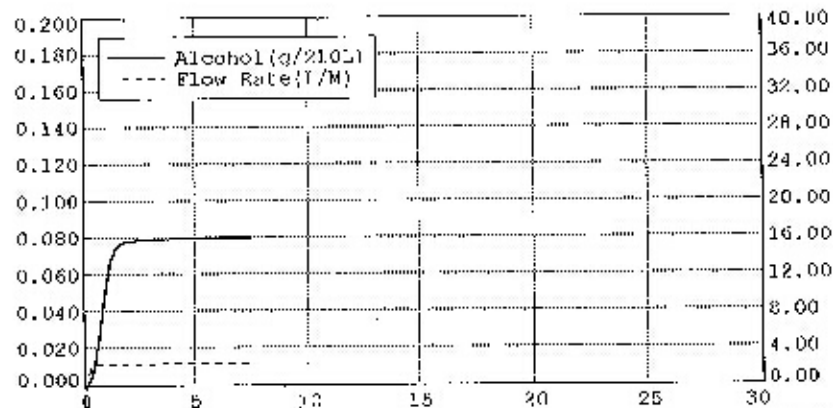
Alaska Department of Public Safety  
 DATAMASTER dnt: 100388

Date: 05/16/2012  
 Time: 14:40:29

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 30.21: 0.080  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:42
INTERNAL STANDARD	VERIFIED	14:42
EXTERNAL STANDARD	0.080	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.080	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.080	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.081	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.081	14:46
BLANK TEST	0.000	14:47

Average = 0.0810  
 Std Dev = 0.0002



COB 5/19

LINEARITY CHECK: Control Test 4

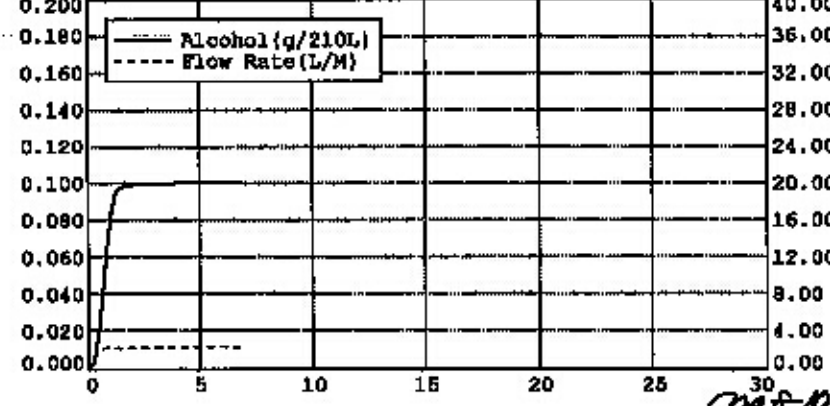
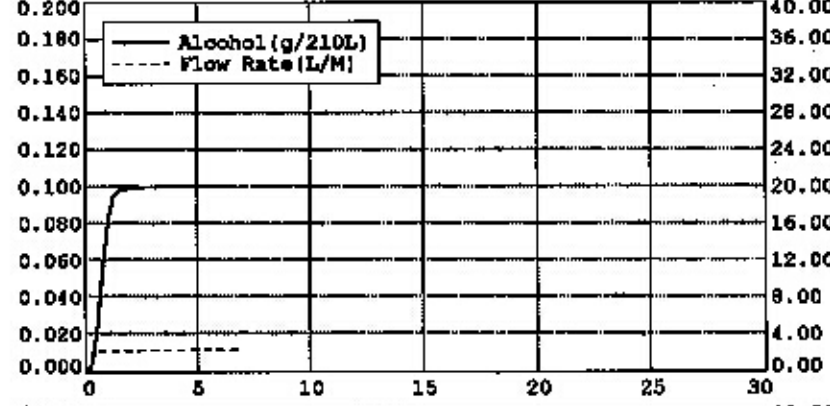
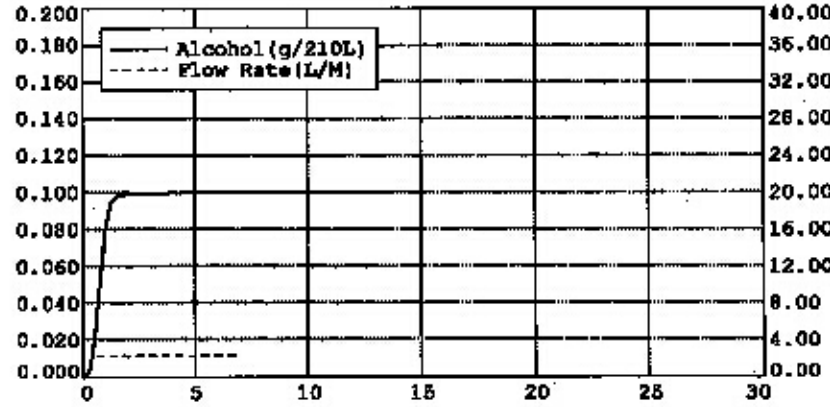
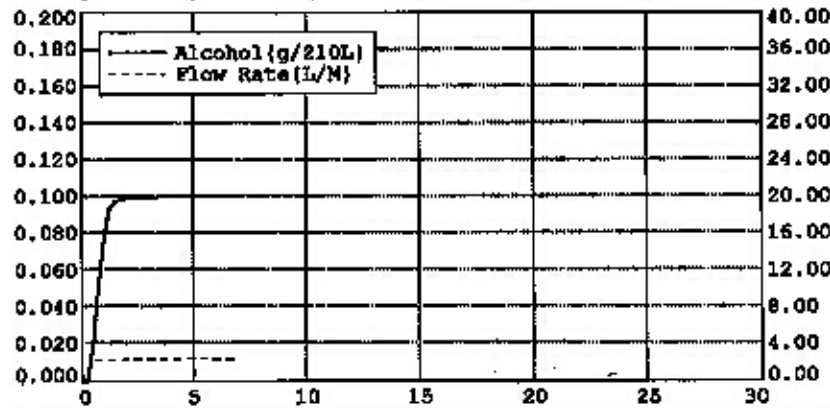
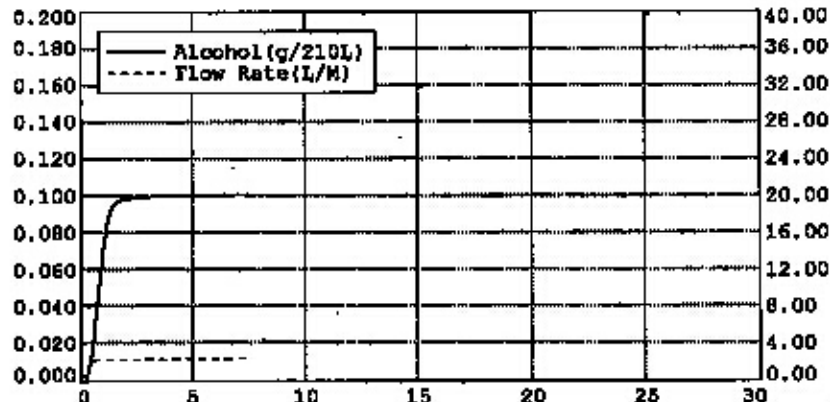
Alaska Department of Public Safety  
 DATAMASTER dat: 100388

Date: 05/16/2012  
 Time: 14:48:11

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.100  
 TARGET AT 30.22: 0.100  
 LOT #: 07511100A3  
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.101	14:50
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.101	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.101	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.101	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.101	14:54
BLANK TEST	0.000	14:55

Average = 0.1013  
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

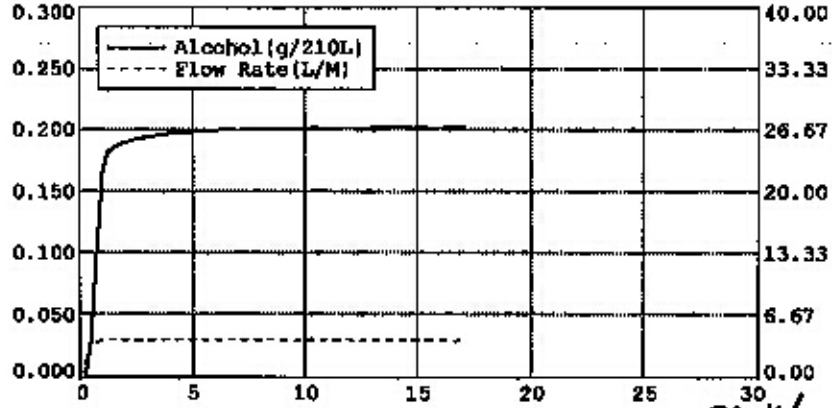
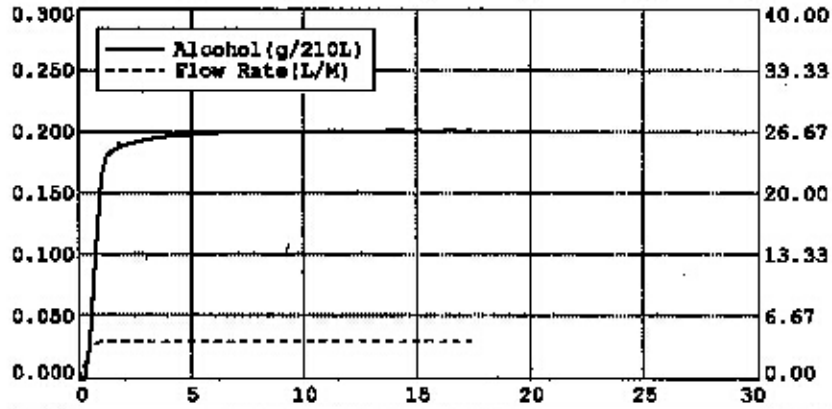
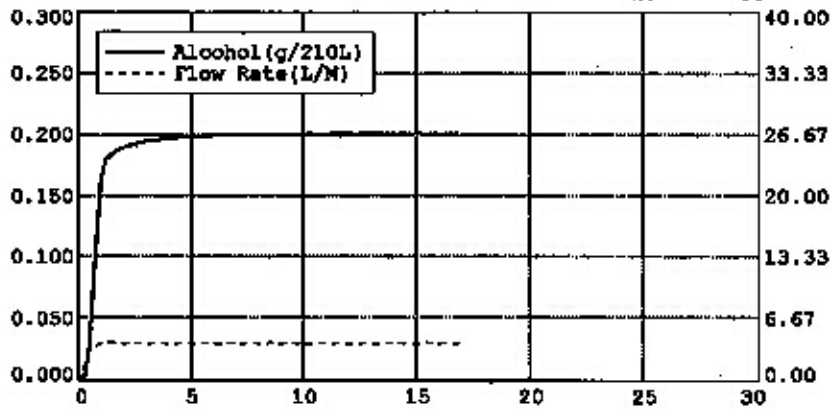
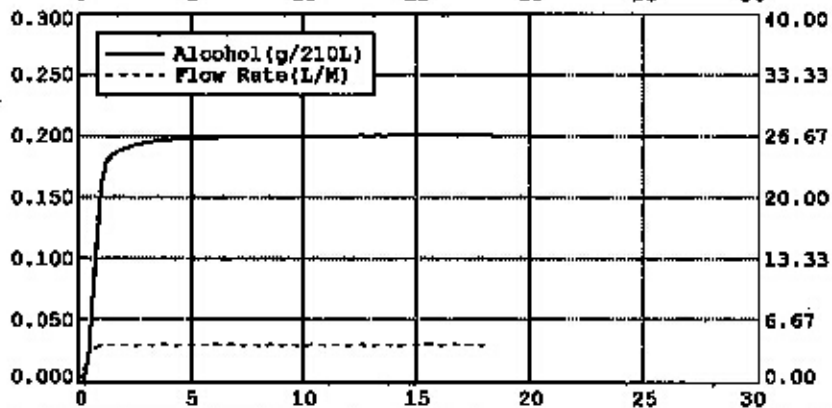
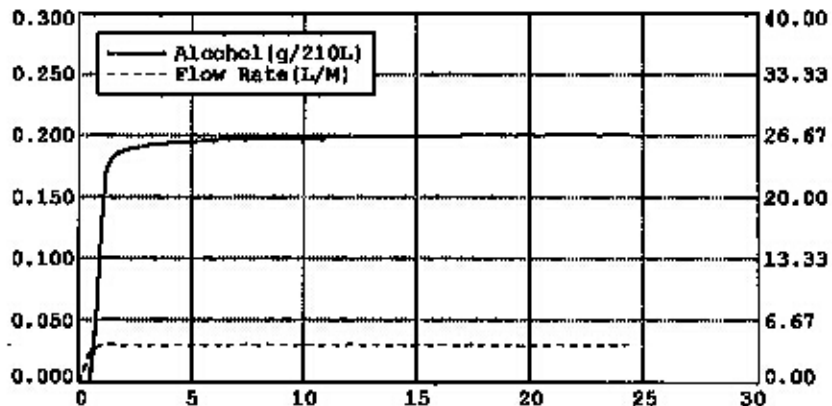
Alaska Department of Public Safety  
 DATAMASTER dnt: 100388

Date: 05/16/2012  
 Time: 14:58:54

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

BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:00
EXTERNAL STANDARD	0.201	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.201	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.202	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.202	15:04
BLANK TEST	0.000	15:05
EXTERNAL STANDARD	0.203	15:06
BLANK TEST	0.000	15:07

Average = 0.2022  
 Std Dev = 0.0006



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety  
 DATACASTER dnb: 100388

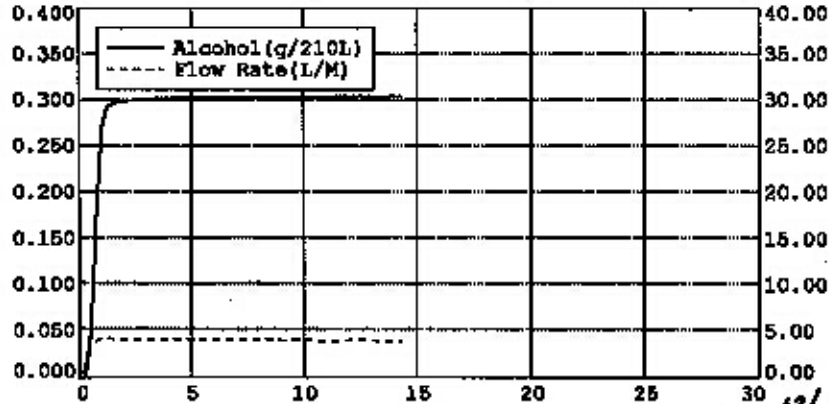
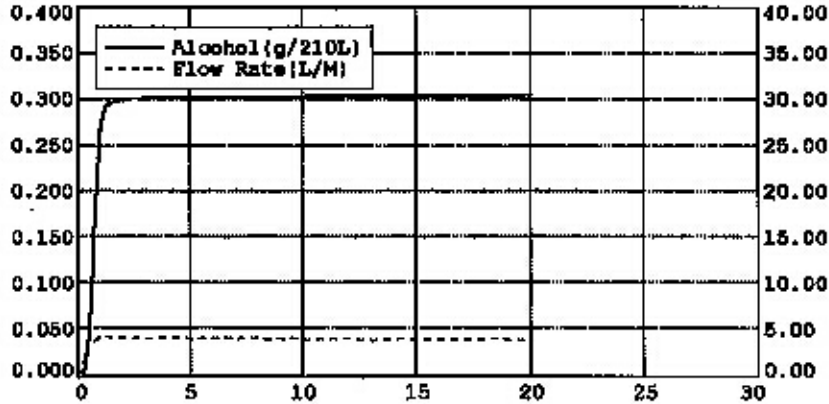
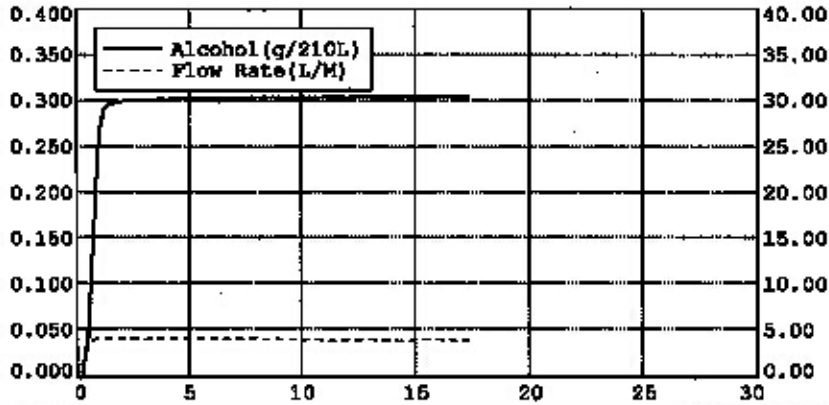
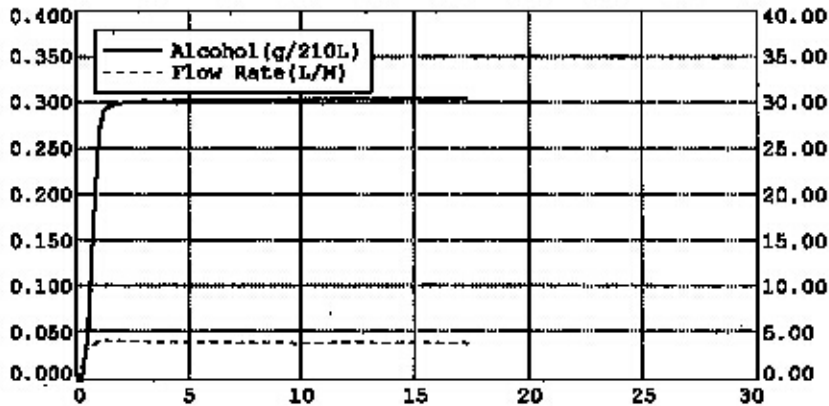
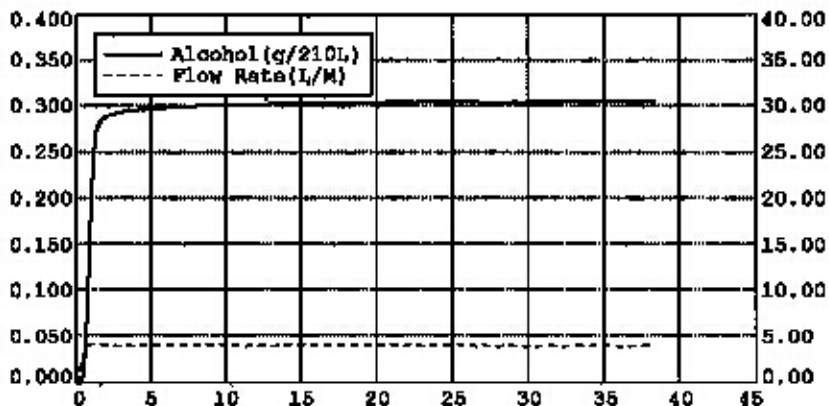
Date: 05/16/2012  
 Time: 15:09:19

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:10
EXTERNAL STANDARD	0.305	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.304	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.304	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.304	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.304	15:16
BLANK TEST	0.000	15:17

Average = 0.3048  
 Std Dev = 0.0003



0.03 4/12



SUBJECT TEST

Alaska Department of Public Safety  
 DANFMASTER date: 100388

Date: 05/17/2012  
 Time: 07:46:18

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INCOMPLETE

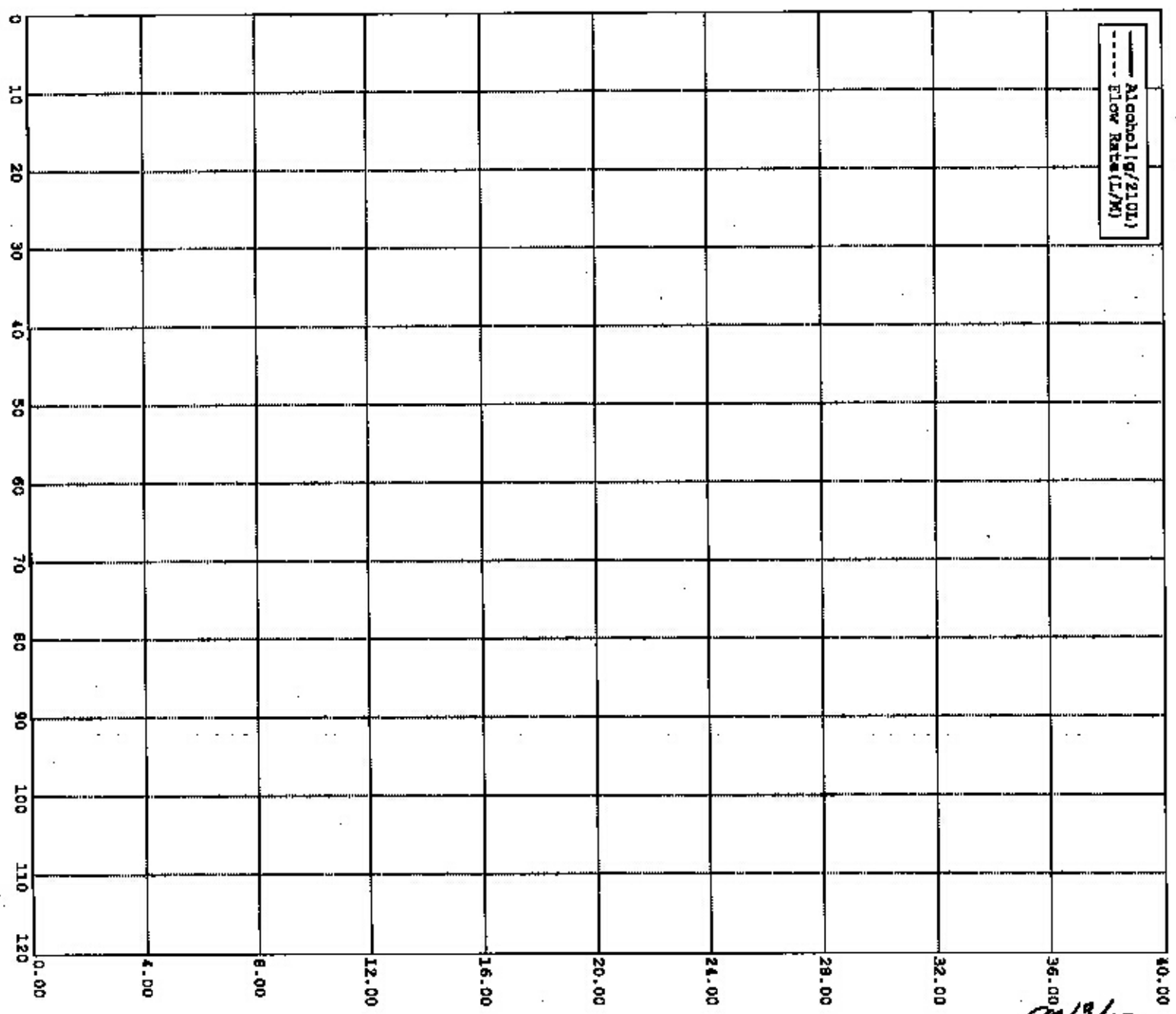
OPERATOR NAME:  
 COLLEEN S O'BRYEN  
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
 NORMAL: 0.080  
 TARGET AE 30.12: 0.080  
 LOT #: 02012080AL  
 EXPIRATION: 03/31/2014

DIAGNOSTIC CHECK	PASSED	07:47
BLANK TEST	0.000	07:47
INTERNAL STANDARD	VERIFIED	07:48
EXTERNAL STANDARD	0.081	07:48
BLANK TEST	0.000	07:49
SUBJECT SAMPLE	INCOMPLETE	07:51

*CRB*



05/13/19

SUBJECT TEST

Alaska Department of Public Safety  
DATABASE# dnt: 100388

Date: 05/17/2012  
Time: 07:54:08

SUBJECT NAME:  
TEST TEST  
LICENSE #: INVALID

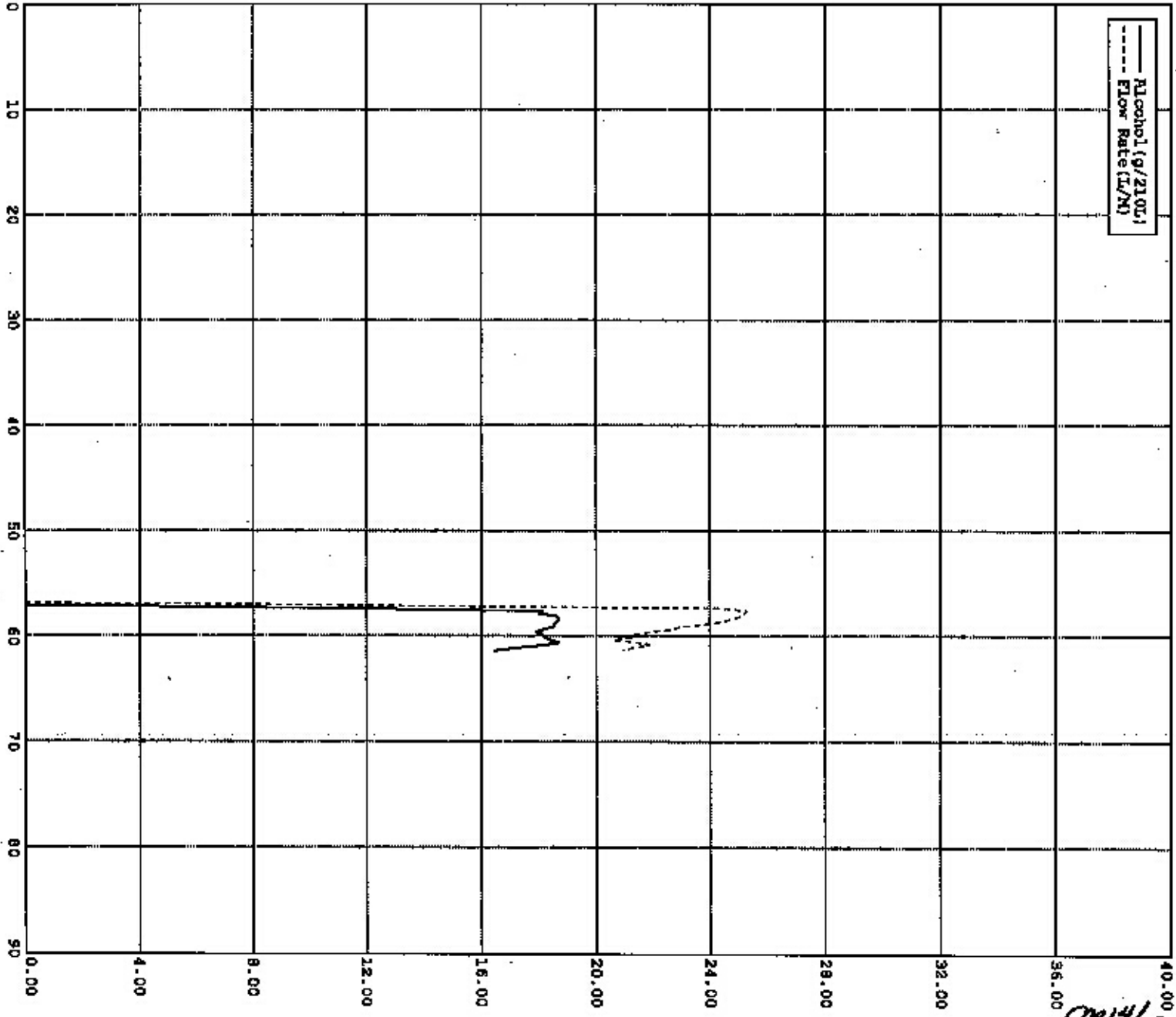
OPERATOR NAME:  
COLLEEN S O'BRYEN  
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 30.12: 0.080  
LOT #: D2012080A1  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	07:55
BIANK TEST	0.000	07:55
INTERNAL STANDARD	VERIFIED	07:55
EXTERNAL STANDARD	0.080	07:55
BIANK TEST	0.000	07:56
SUBJECT SAMPLE	INVALID	07:57

CRB



CRB 4/19



SUBJECT TEST

Alaska Department of Public Safety  
UNTRANSFER DMC: 100388

Date: 05/17/2012  
Time: 08:20:56

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-ACERONE

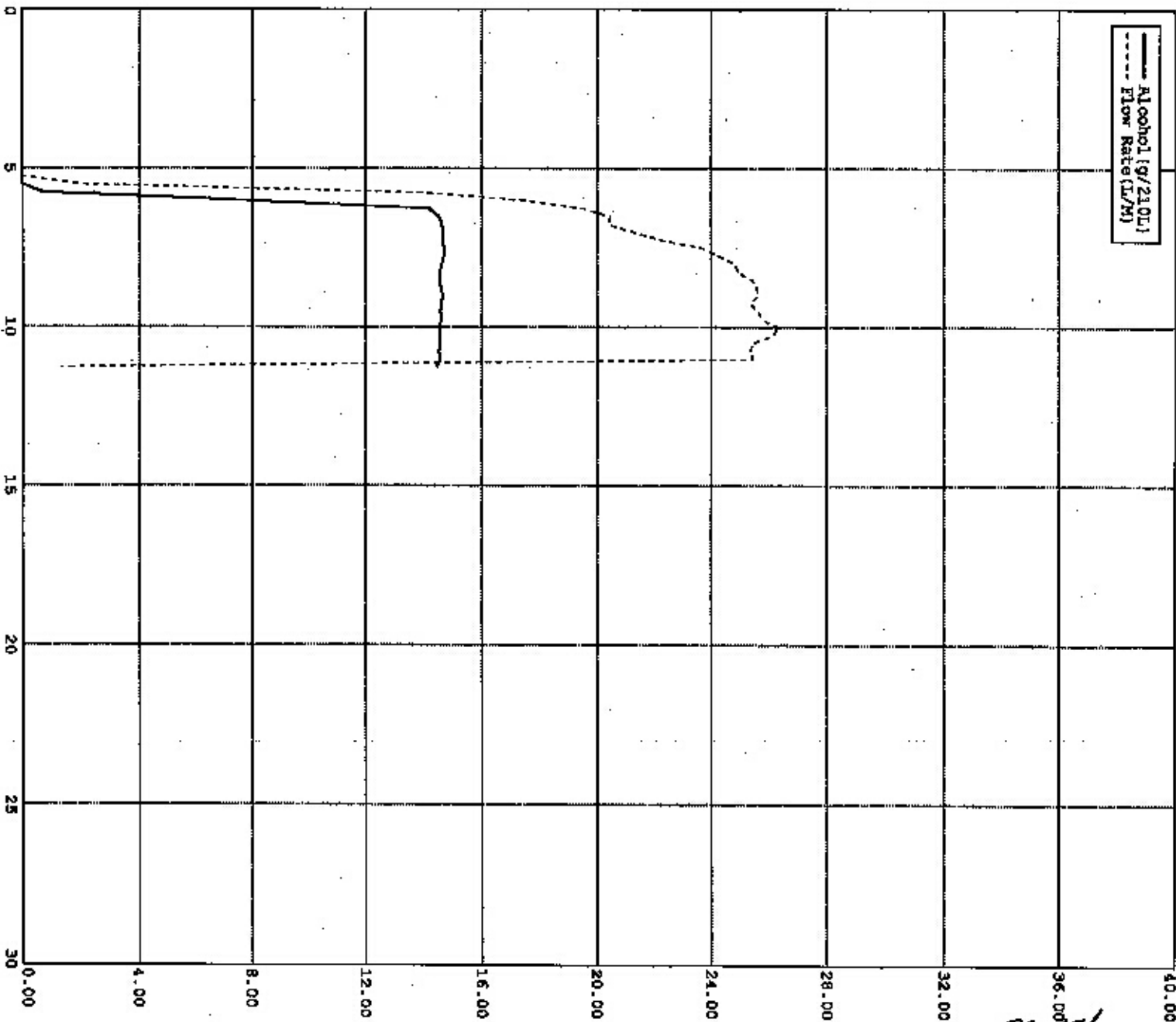
OPERATOR NAME:  
COLLEEN S ORRYANT  
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET At 30.13: 0.080  
LOT #: 02012080A1  
EXPIRATION: 03/31/2014

DIAGNOSTIC CHECK	PASSED	08:22
BLANK TEST	0.000	08:22
INTERNAL STANDARD	VERIFIED	08:22
$X_d = 0.095$ (0.92%)		
EXTERNAL STANDARD	0.080	08:22
$X[1] = 0.0809$ (-0.0022)	(0.0022)	
BLANK TEST	0.000	08:23
SUBJECT SAMPLE	INTERFERENCE	08:24
$X[1] = 0.0739$ (-0.0089)	(0.0014)	

*MS*



003 10/19

SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmr: 100388

Date: 05/17/2012  
 Time: 08:05:36

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: INT-12A

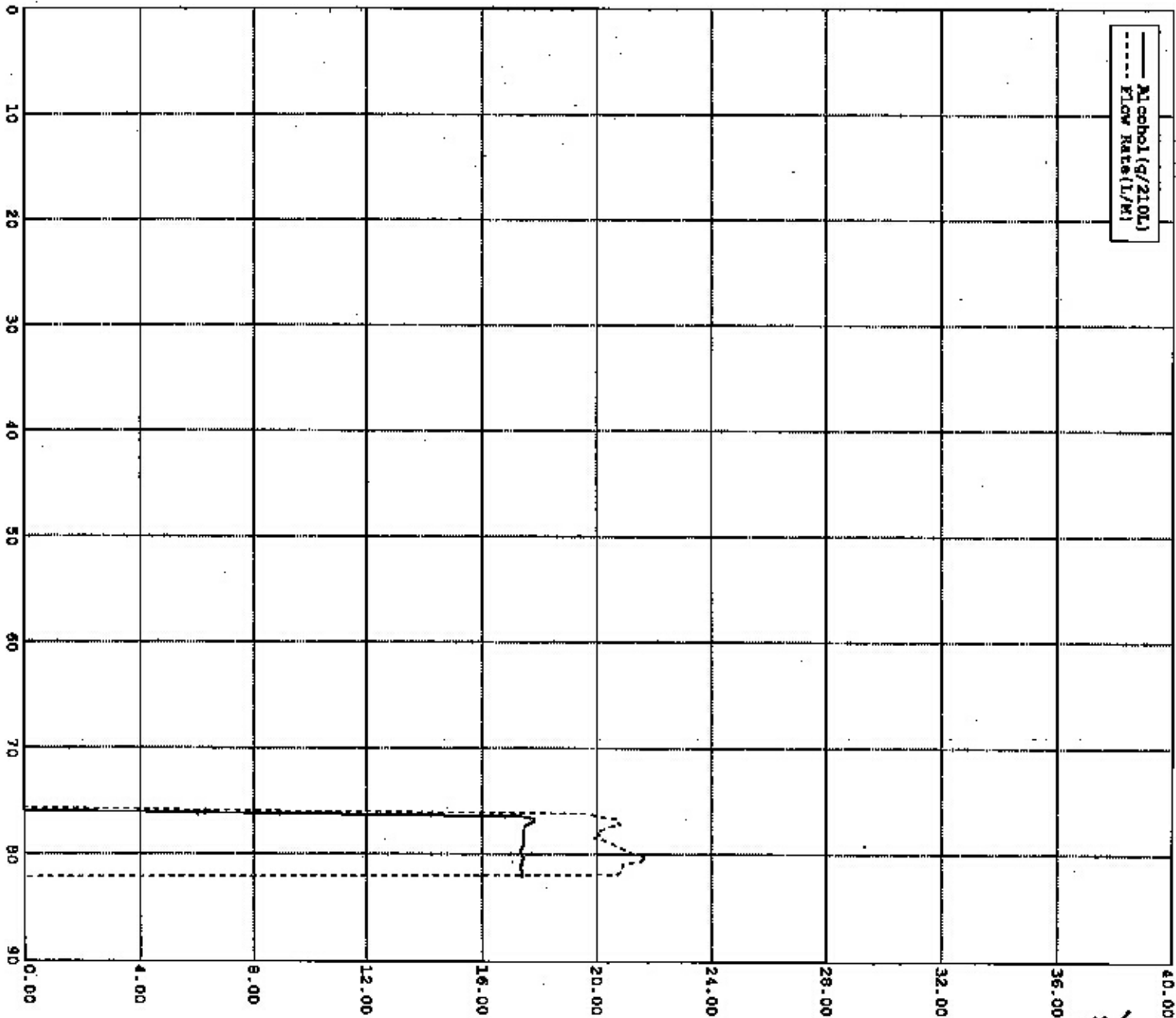
OPERATOR NAME:  
 COLLIER S O'BRYANT  
 OPERATOR'S #: 5237

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 30.13: 0.080  
 LOT #: 02012080A1  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 08:06  
 BLANK TEST 0.000 08:06  
 INTERNAL STANDARD VERIFIED 08:06  
 Xg = 0.097 (1.014) 0.080 08:07  
 INTERNAL STANDARD  
 X[1] = 0.0805 (-0.0016) (0.0026)  
 BLANK TEST 0.000 08:08  
 SUBJECT SAMPLE INTERFERENCE 08:09  
 X[1] = 0.0861 (-0.0196) (0.0011)

*CRB*



*CRB 6/17*

SUBJECT TEST

Alaska Department of Public Safety  
DEPARTMENTAL dmc: 100388

Date: 05/17/2012  
Time: 08:13:17

SUBJECT NAME:  
TEST TEST  
LICENSE #: INT-NEG

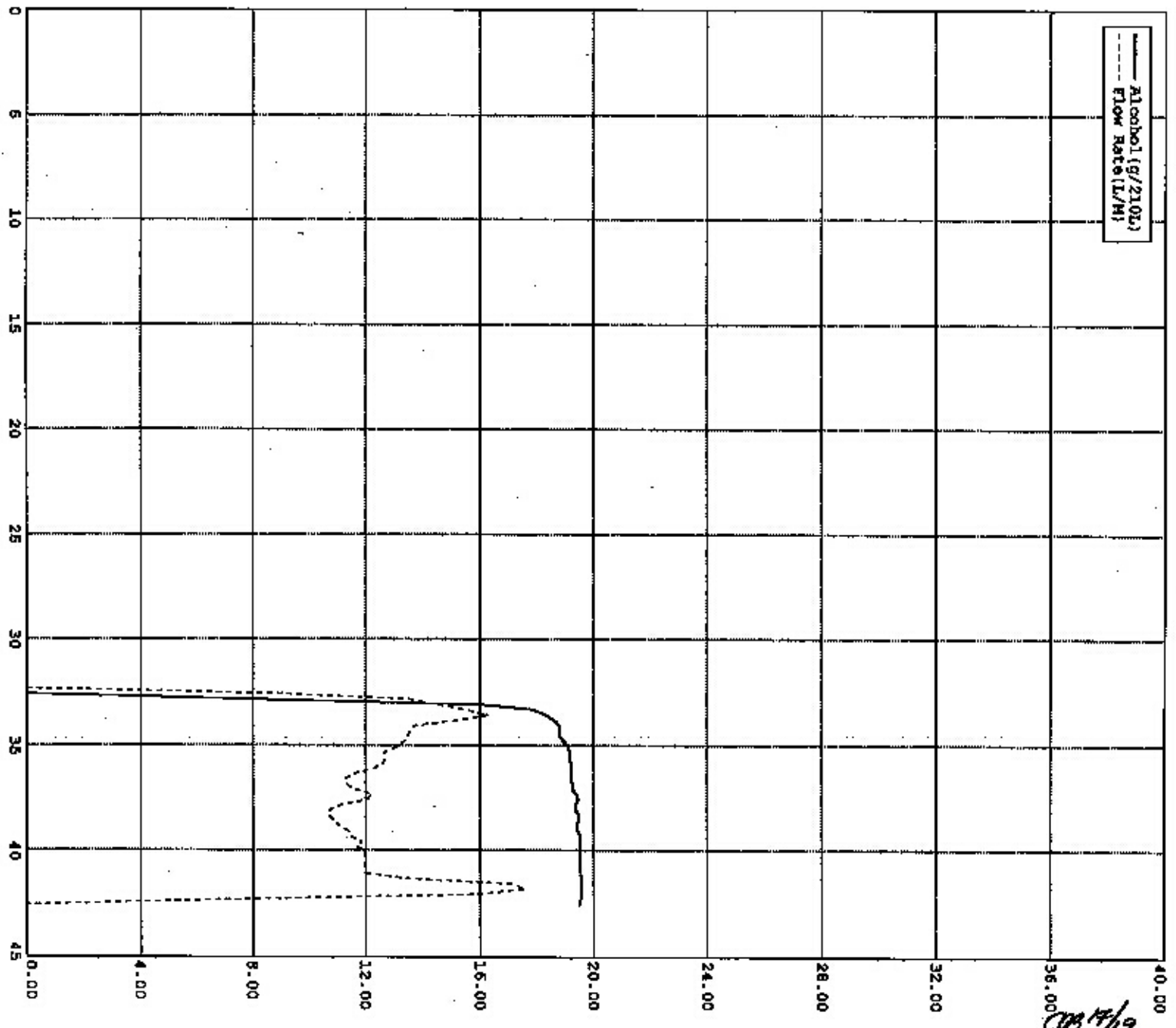
OPERATOR NAME:  
COLLEEN S O'BRYANT  
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
NEUTRAL: 0.080  
TARGET AT 30.12: 0.080  
LOT #: 02012080AI  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:14
BLANK TEST	0.000	08:14
INTERNAL STANDARD	VERIFIED	08:14
KG = 0.057 (1.74%)		
EXTERNAL STANDARD	0.081	08:14
X[1] = 0.0812 (-0.0017)	(0.0022)	
BLANK TEST	0.000	08:15
SUBJECT SAMPLE (Vol=2.10L)	0.098	08:15
X[1] = 0.0984 (-0.0005)	(0.0081)	
BLANK TEST	0.000	08:17
EXTERNAL STANDARD	0.080	08:18
X[1] = 0.0806 (-0.0021)	(0.0015)	
BLANK TEST	0.000	08:19

*CR*



*CR 5/19*

**SUBJECT TEST**

Alaska Department of Public Safety  
 DATAMASTER dnr: 100388

Date: 05/17/2012  
 Time: 08:35:10

SUBJECT NAME:  
 TEST TEST  
 LICENSE #: RFL

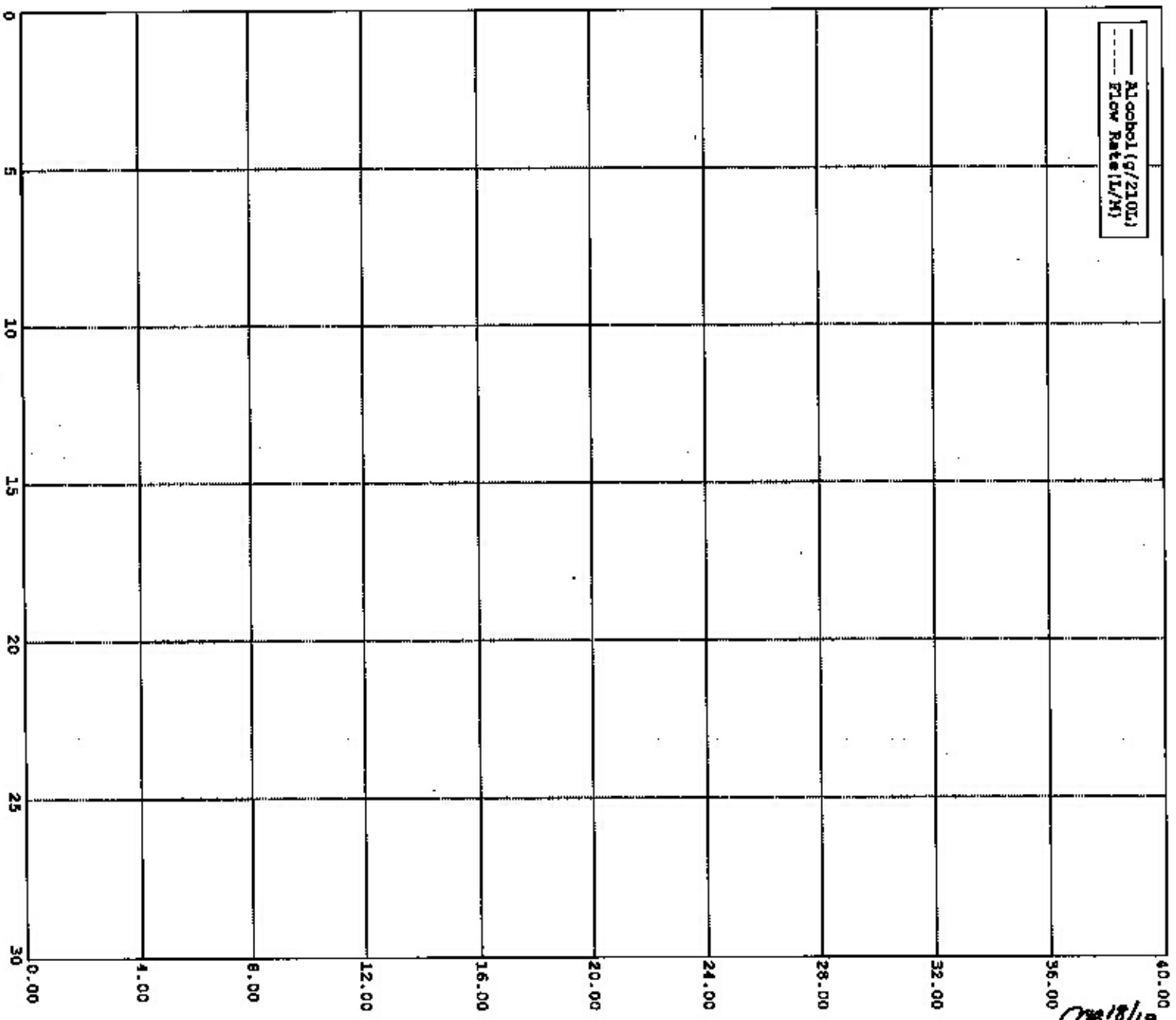
OPERATOR NAME:  
 COLLEEN S O'BRYANT  
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION  
 MONITOR: 0.080  
 TARGET AT 30.12: 0.080  
 LOT #: 0201208021  
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:36
BLANK TEST	0.000	08:36
INTERNAL STANDARD	VERIFIED	08:36
EXTERNAL STANDARD	0.080	08:36
BLANK TEST	0.000	08:37

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety  
LABORATORY dmt: 100388

Date: 05/17/2012  
Time: 09:10:59

SUBJECT NAME:  
TEST TEST  
LICENSE #: NON-DRINKING

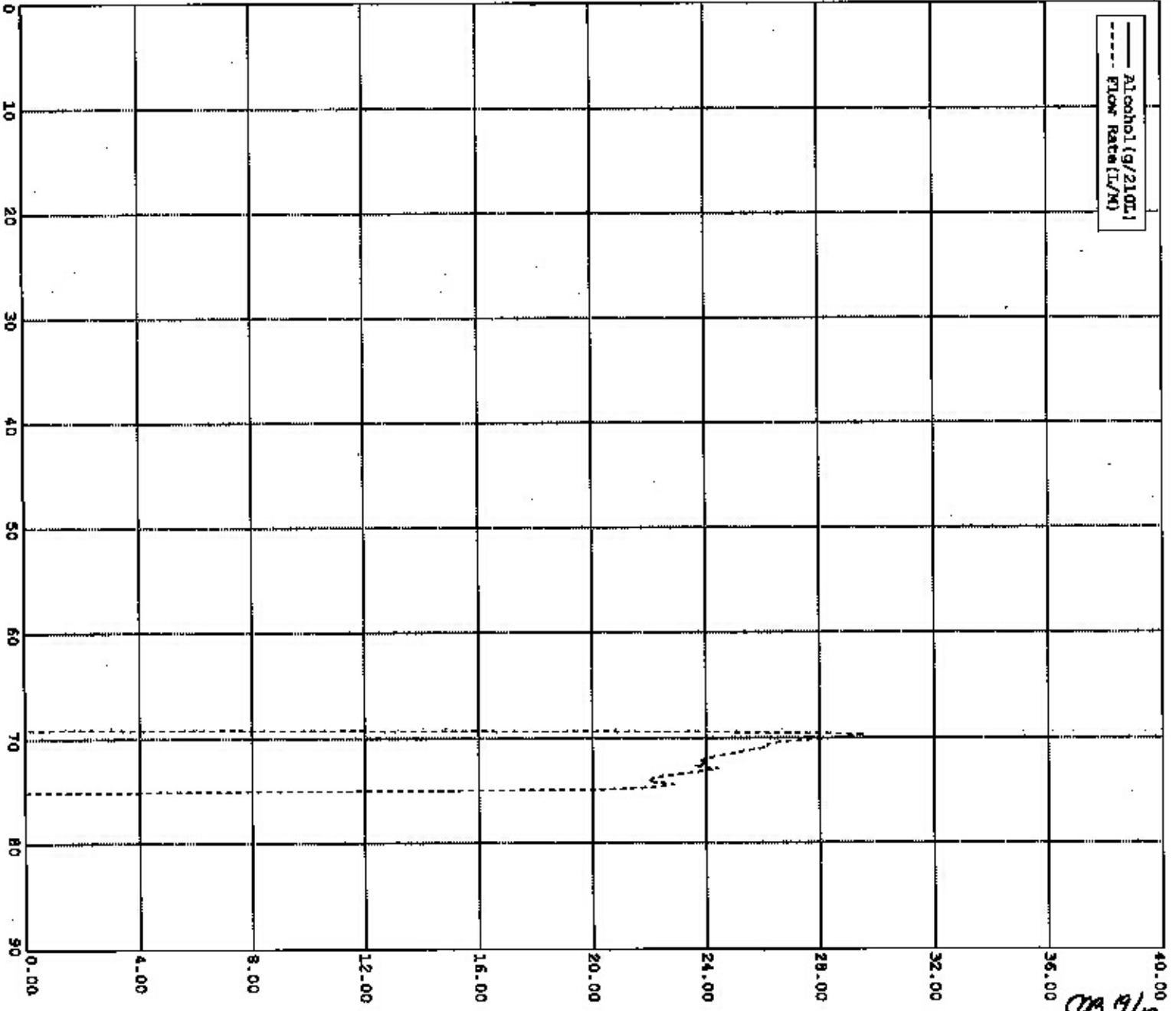
OPERATOR NAME:  
COLLEEN S OBYANT  
OPERATOR'S #: 6237

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

INTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 30.14: 0.080  
LOT #: 02012080AL  
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:11
BLANK TEST	0.000	09:12
INTERNAL STANDARD	0.080	09:12
EXTERNAL STANDARD	0.000	09:13
BLANK TEST	0.000	09:14
SUBJECT SAMPLE	0.000	09:15
BLANK TEST	0.081	09:15
EXTERNAL STANDARD	0.000	09:16
BLANK TEST	0.000	09:16

*CS*



*CS 9/19*

Final page for report

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2/19/2014