

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100416 Analyst Colleen O'Bryant Start Date 06/26/2012Diagnostic 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 1500 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf TLMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf TLMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf TLMO Lot 02012080A1 Exp 03/01/2014iv. 0.100g/210L Mnf TLMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N DR4163 Date Calibrated 08/18/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N SD 1176 Date Calibrated 08/17/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/20131. Simulator S/N SD 1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 07/06/20131. Simulator S/N DR 6267 Date Calibrated 01/10/2012iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/20131. Simulator S/N SD 1202 Date Calibrated 08/17/2011d. 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 06/29/2012

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100416

Date: 06/26/2012
Time: 07:52:36

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 5.072 L/M	PASSED
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DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD	PASSED
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08/2/12

Technician Screen

DATAMASTER dmt: 100416

Date: 06/26/2012
Time: 8:15 AM

Temperatures (°C)

Sample Cell: 49.0°C
Breath Tube: 46.4°C

Current Barometer 29.4 in
Volume (Ltr) 1.46

Settings

Lamp: 1.68 V
Bias: 82 V
Cooler: 1.64 V
Chopper: 529 Hz

Voltages (V)

Flow: 1.06 V
Detector: 0.003 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100416

Date: 05/03/2011
Time: 14:30:54

Ca	=	0.1000		
CAL	=	0.991812	0.800	<= CAL < 1.200
b1	=	0.0002	0.0000	<= b1 < 0.0040
b2	=	0.0037	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0855	0.0500	<= Xq < 0.2000
a21	=	1.194383	1.050	<= a21 < 1.300
a31	=	0.559018	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100416

Date: 06/26/2012
Time: 08:16:02

SUBJECT NAME:
TEST TEST
LICENSE #: VOLUME TEST

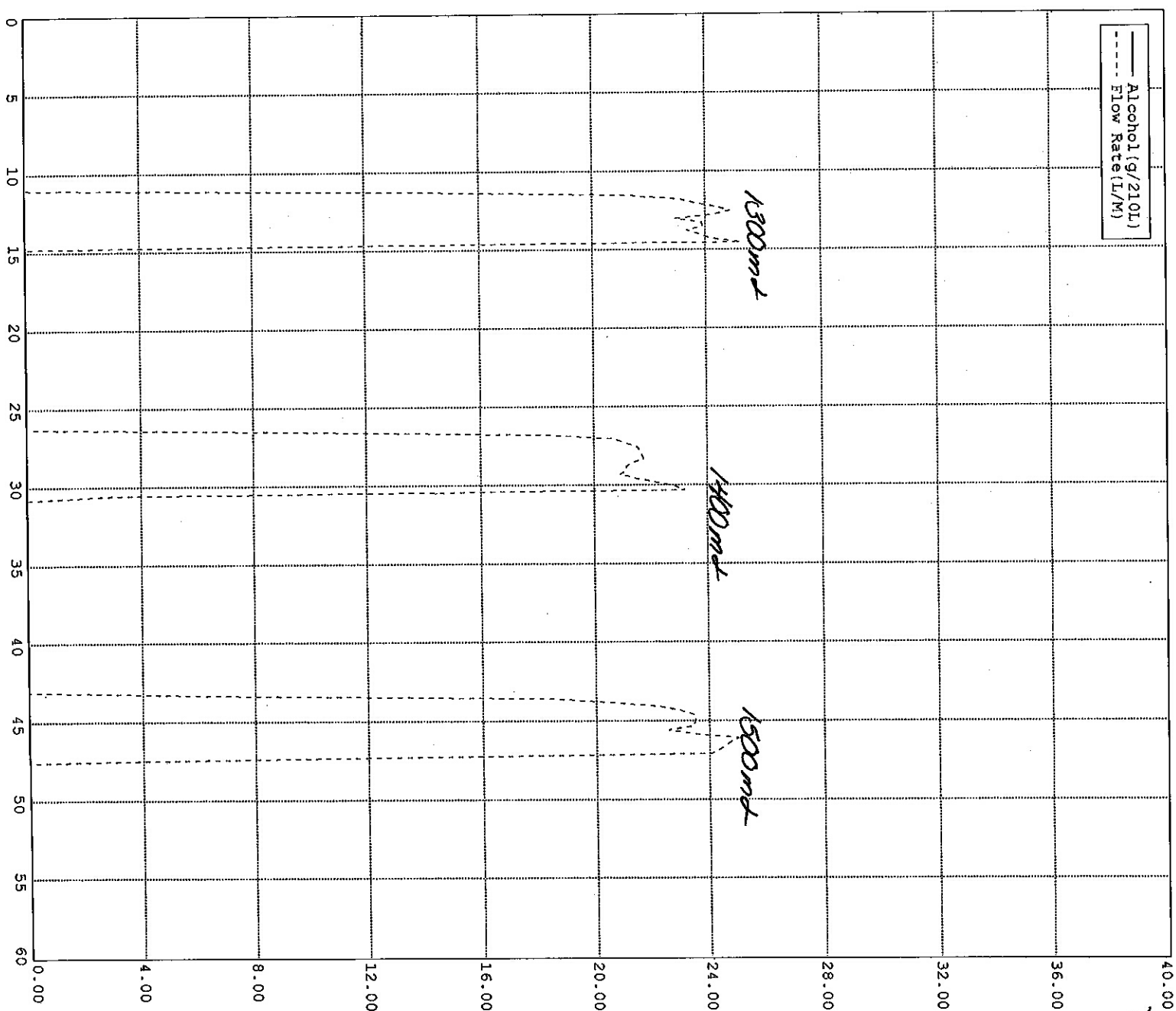
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:17
BLANK TEST	0.000	08:17
INTERNAL STANDARD	VERIFIED	08:17
EXTERNAL STANDARD	0.080	08:17
BLANK TEST	0.000	08:18
SUBJECT SAMPLE	0.000	08:19
BLANK TEST	0.000	08:20
EXTERNAL STANDARD	0.080	08:20
BLANK TEST	0.000	08:21

CS



LINEARITY CHECK

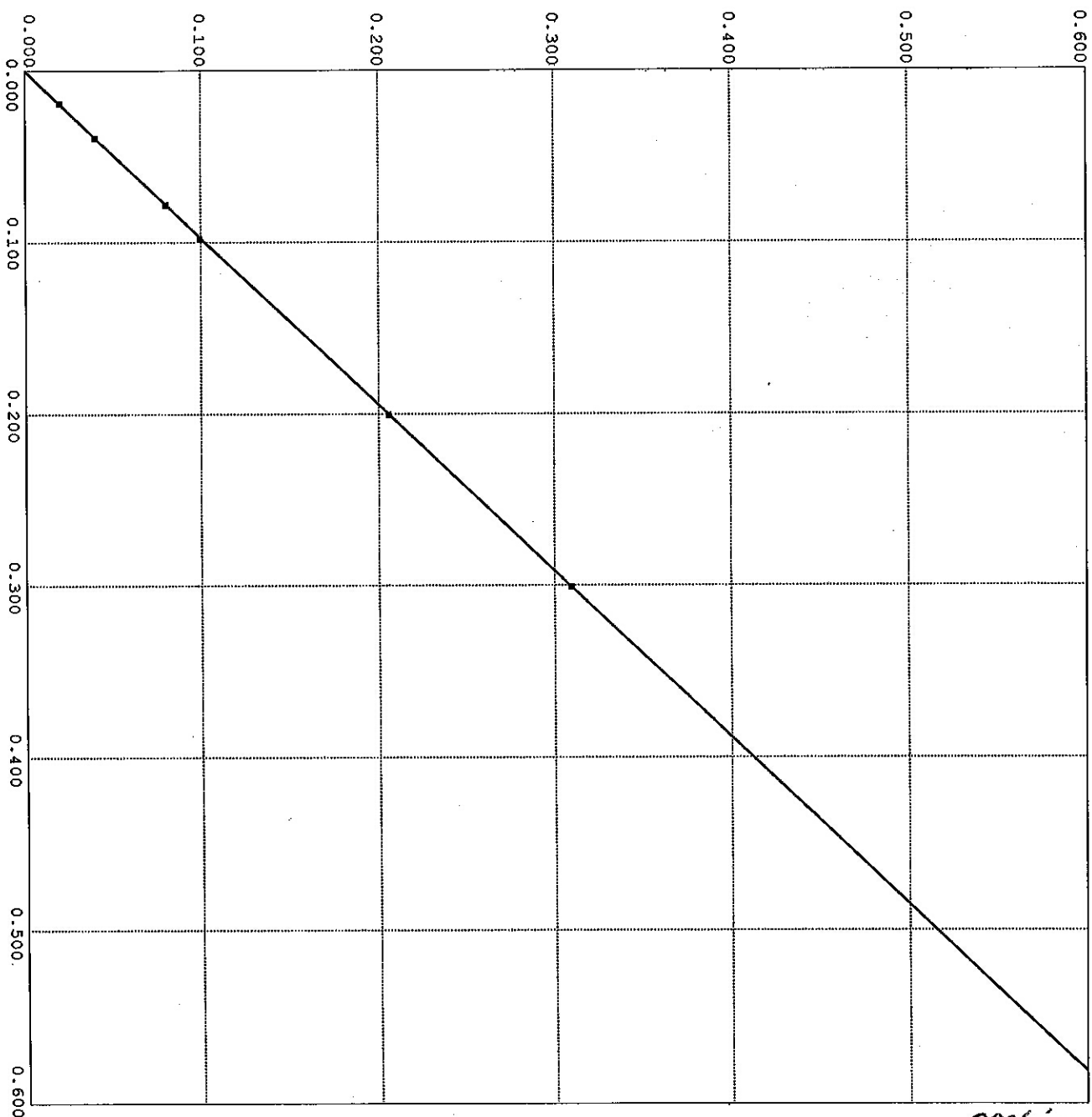
Alaska Department of Public Safety
 DATAMASTER dmt: 100416

Date: 06/26/2012
 Time: 08:42:58

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0002
0.039	0.0404	0.0002
0.078	0.0806	0.0002
0.098	0.1003	0.0003
0.200	0.2066	0.0002
0.300	0.3102	0.0009

SLOPE = 1.032523
 R^2 = 0.999976



008

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100416

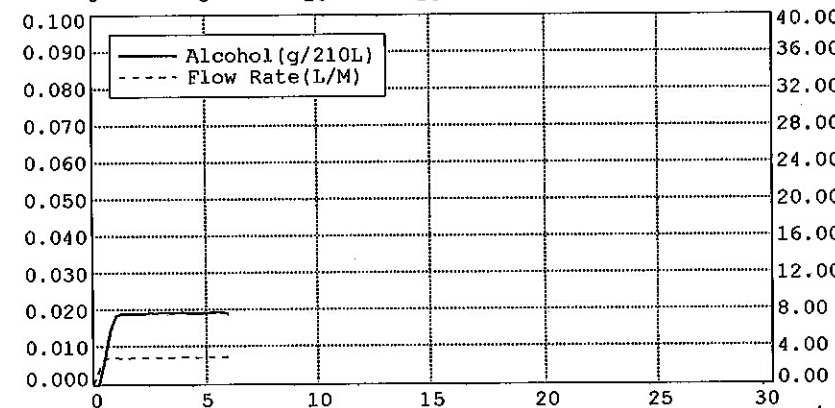
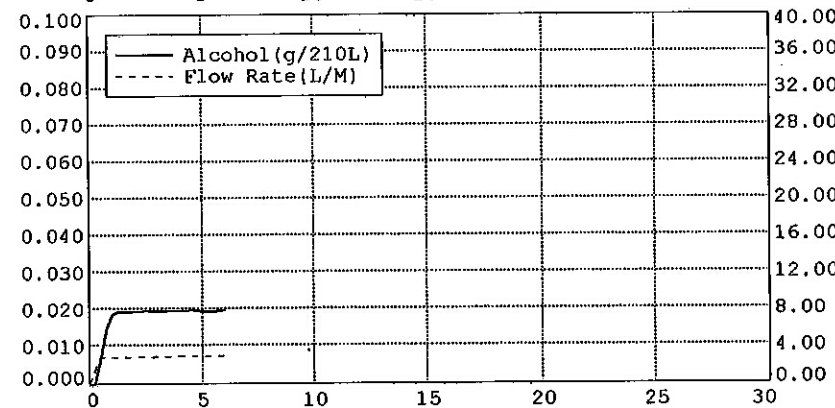
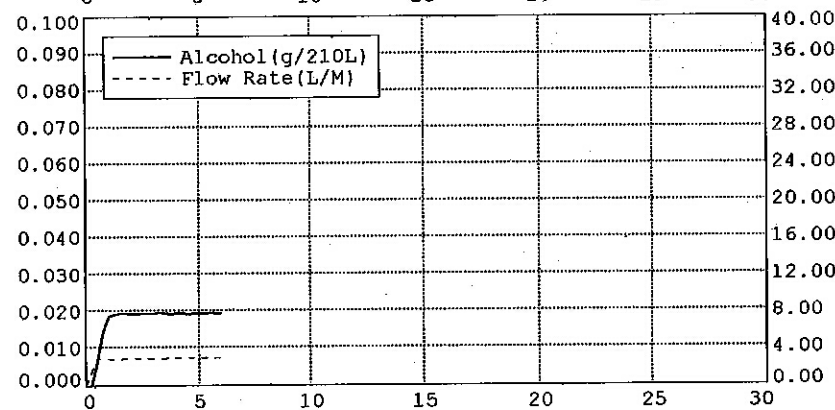
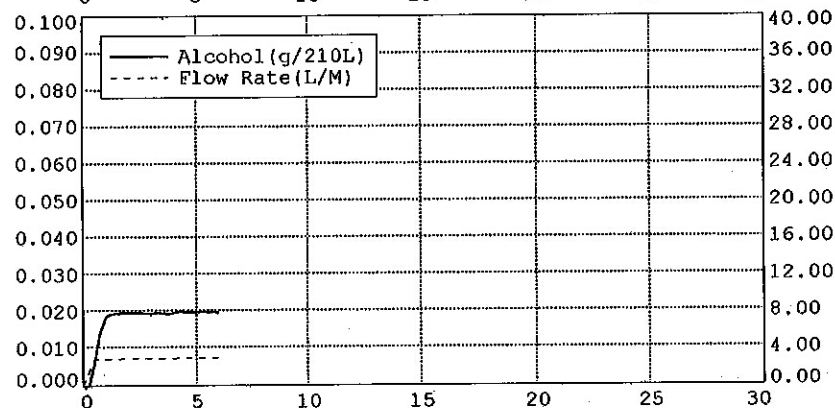
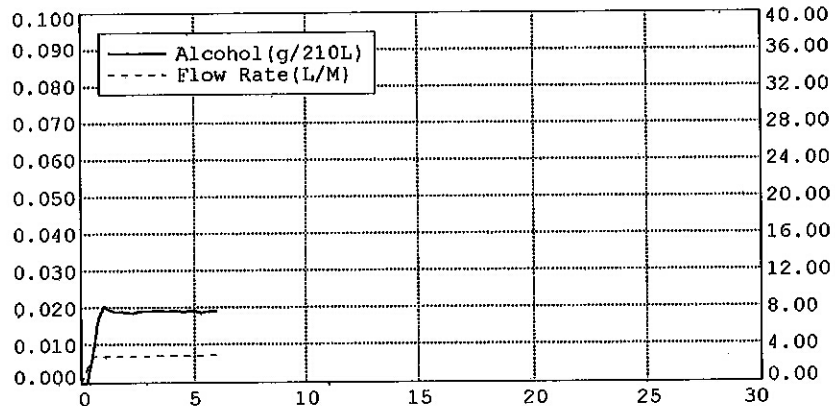
Date: 06/26/2012
Time: 08:42:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.42: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	08:44
INTERNAL STANDARD	VERIFIED	08:44
EXTERNAL STANDARD	0.020	08:44
BLANK TEST	0.000	08:45
EXTERNAL STANDARD	0.020	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.020	08:46
BLANK TEST	0.000	08:47
EXTERNAL STANDARD	0.020	08:47
BLANK TEST	0.000	08:48
EXTERNAL STANDARD	0.020	08:48
BLANK TEST	0.000	08:49

Average = 0.0204
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100416

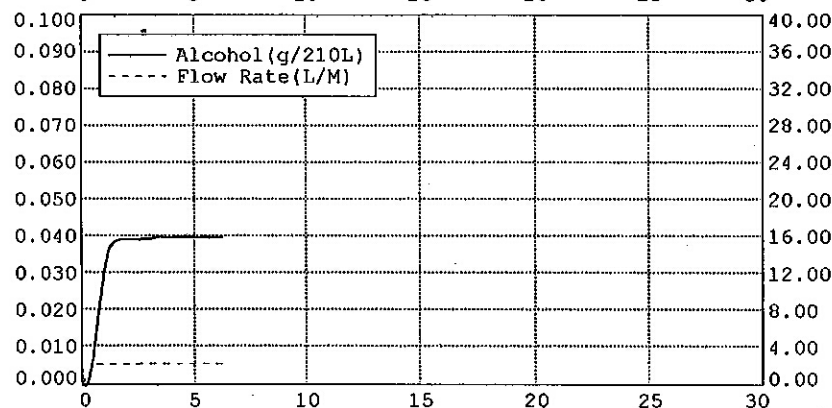
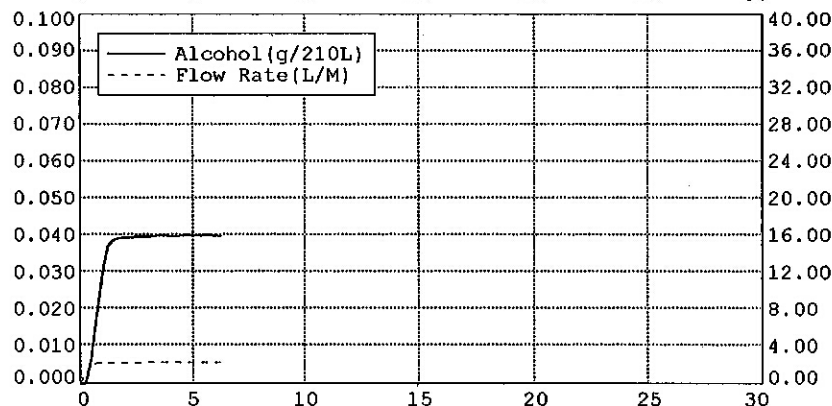
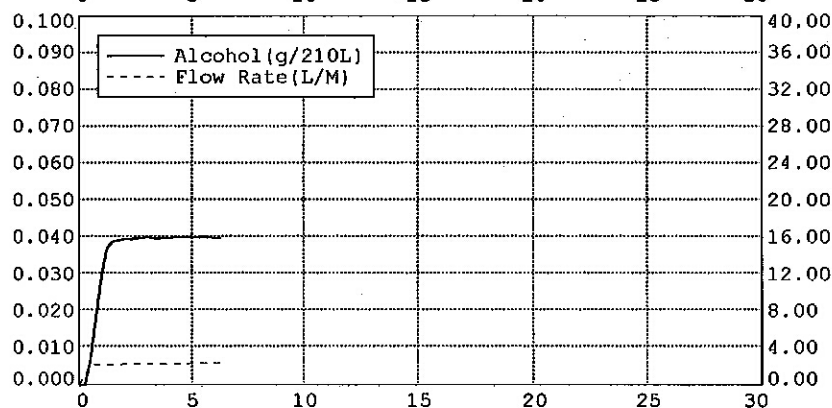
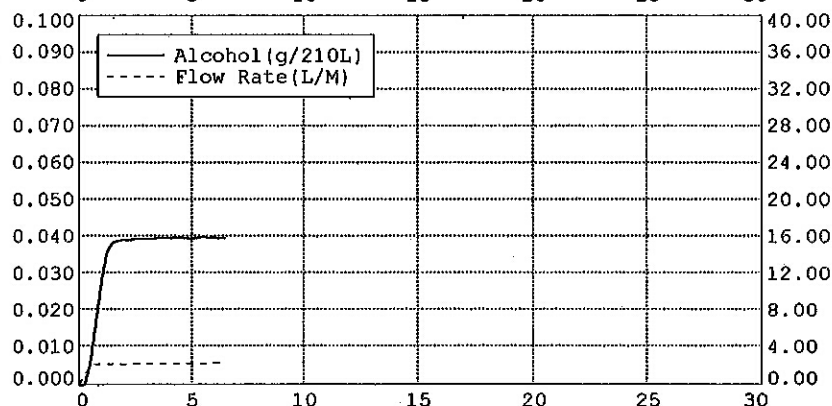
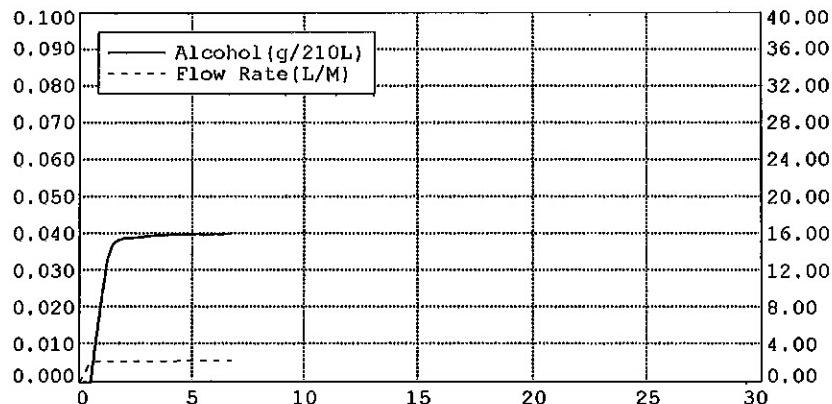
Date: 06/26/2012
Time: 09:10:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.42: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:11
INTERNAL STANDARD	VERIFIED	09:11
EXTERNAL STANDARD	0.040	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.040	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.040	09:14
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.040	09:15
BLANK TEST	0.000	09:16
EXTERNAL STANDARD	0.040	09:16
BLANK TEST	0.000	09:17

Average = 0.0404
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

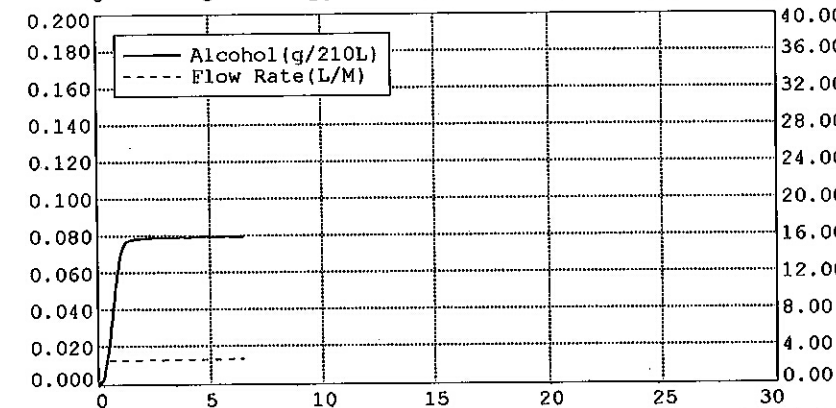
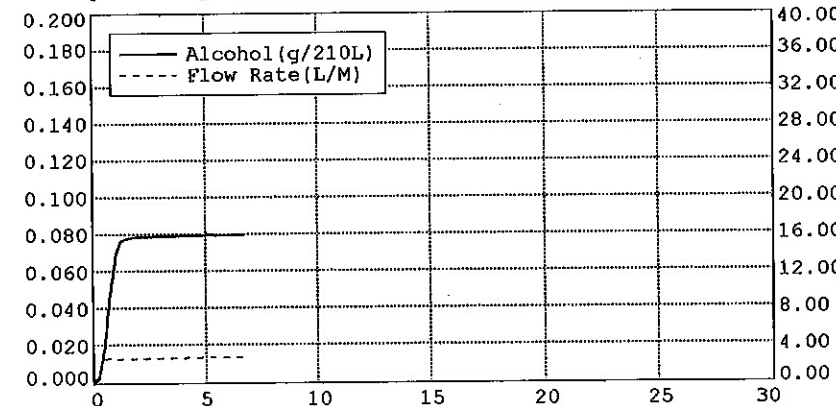
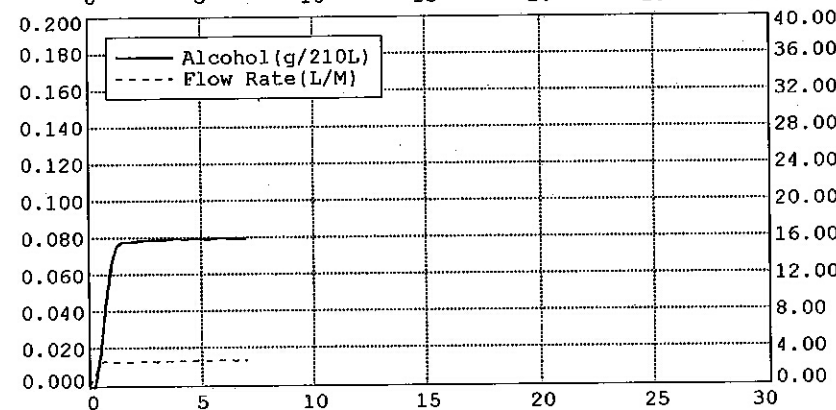
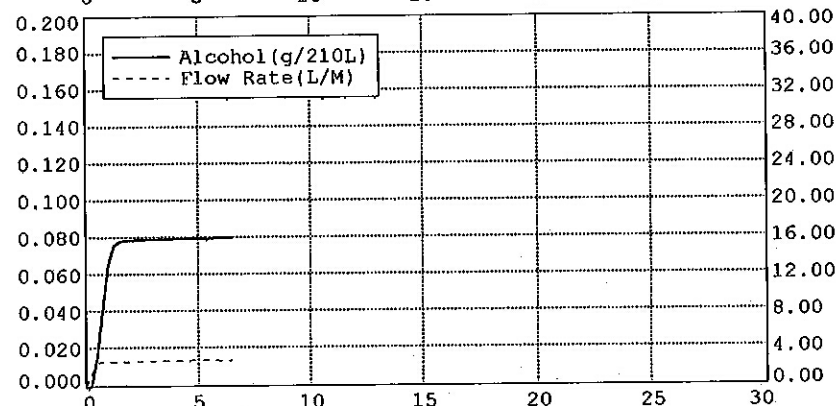
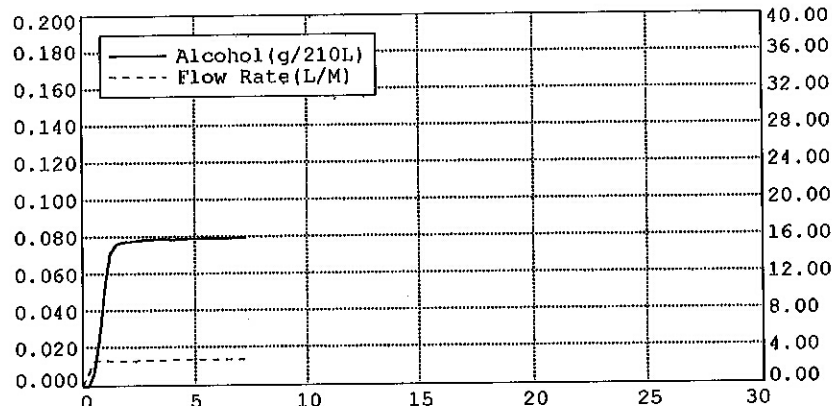
Alaska Department of Public Safety
DATAMASTER dmt: 100416

Date: 06/26/2012
Time: 10:08:12

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	10:09
INTERNAL STANDARD	VERIFIED	10:09
EXTERNAL STANDARD	0.080	10:09
BLANK TEST	0.000	10:10
EXTERNAL STANDARD	0.080	10:11
BLANK TEST	0.000	10:12
EXTERNAL STANDARD	0.080	10:12
BLANK TEST	0.000	10:13
EXTERNAL STANDARD	0.080	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.080	10:14
BLANK TEST	0.000	10:15

Average = 0.0806
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100416

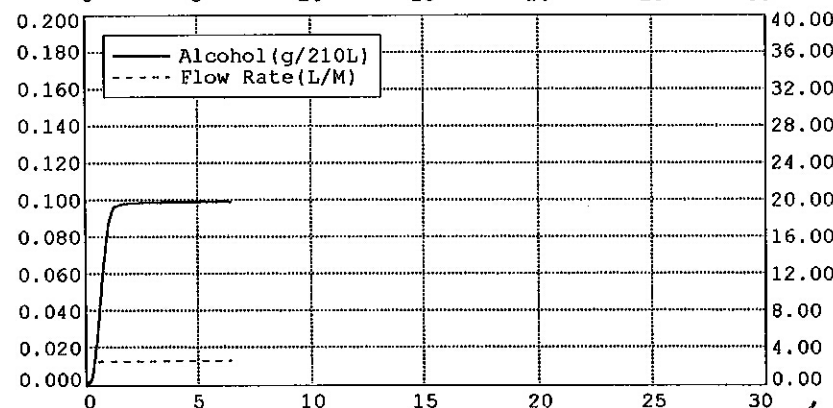
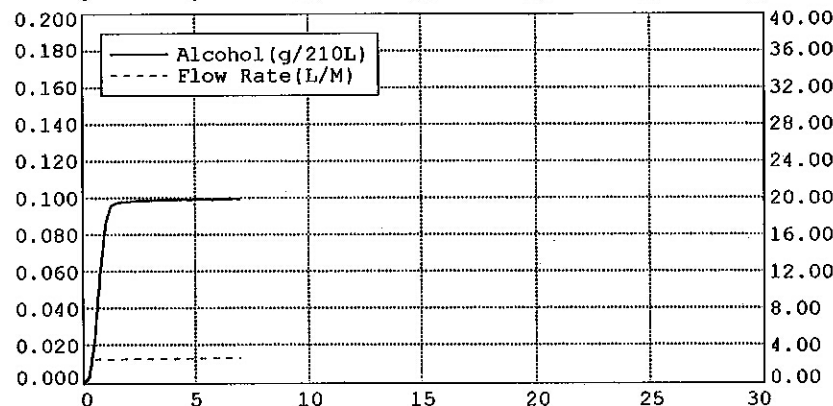
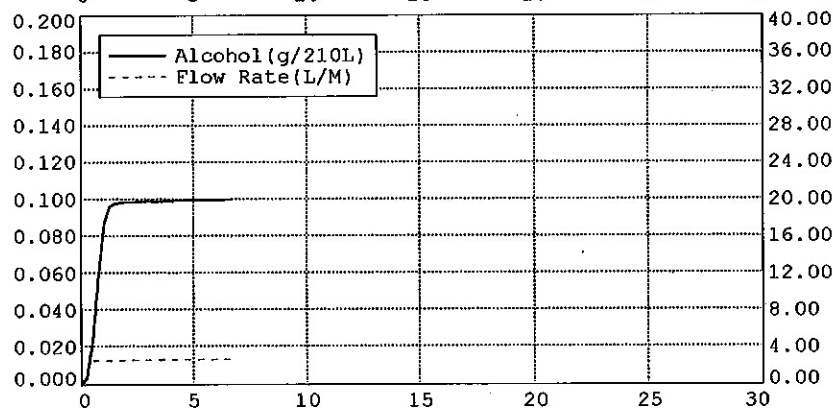
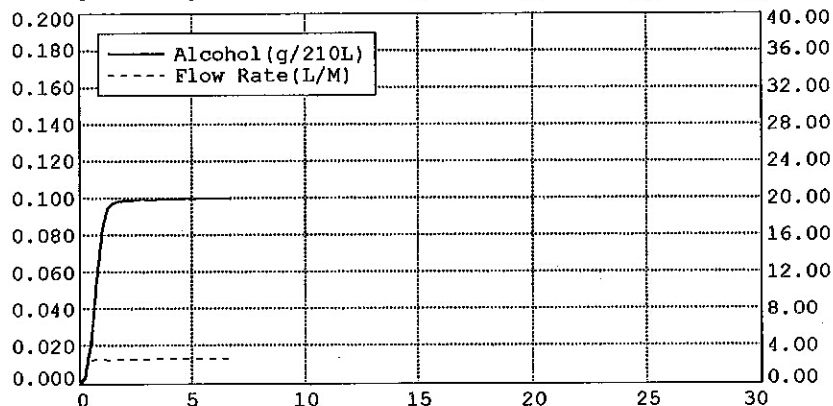
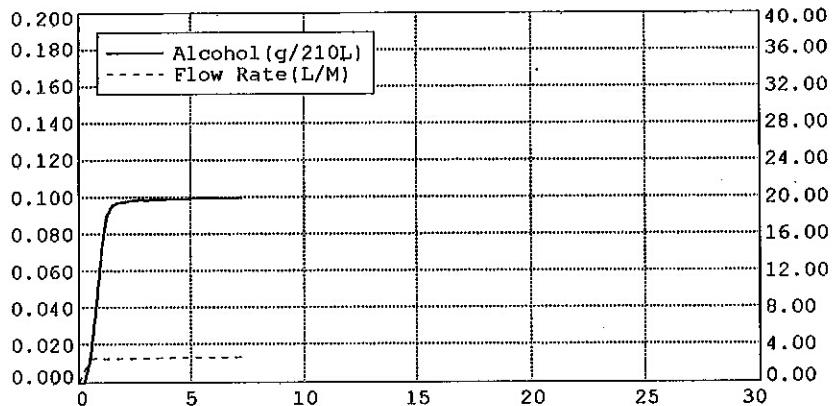
Date: 06/26/2012
Time: 10:19:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.42: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:28
EXTERNAL STANDARD	0.100	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.100	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.100	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.100	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.100	10:33
BLANK TEST	0.000	10:34

Average = 0.1003
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

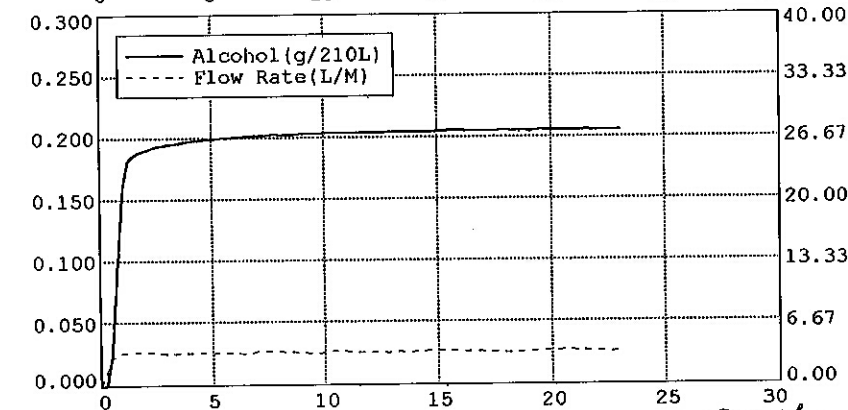
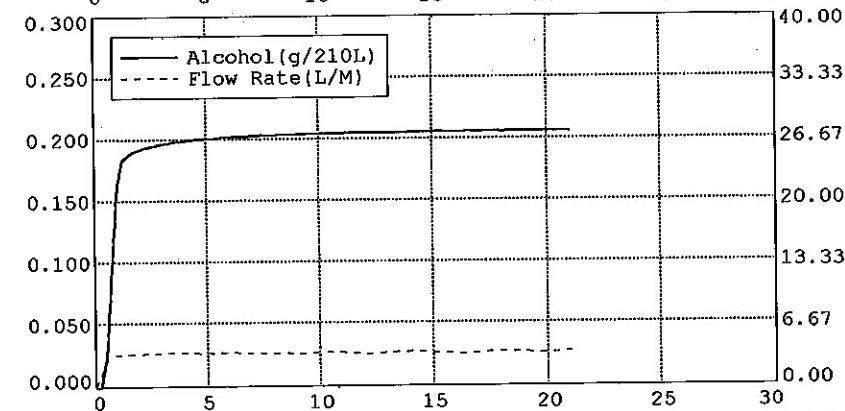
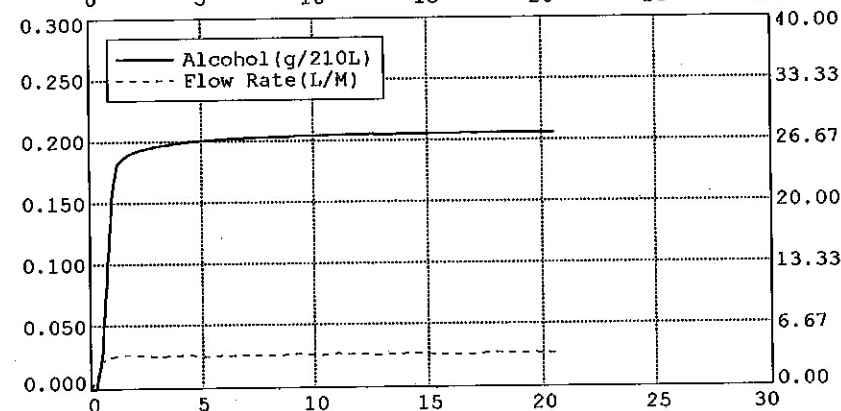
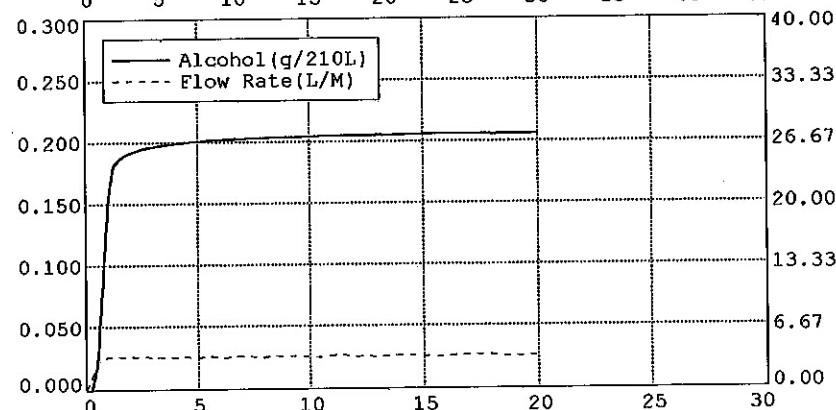
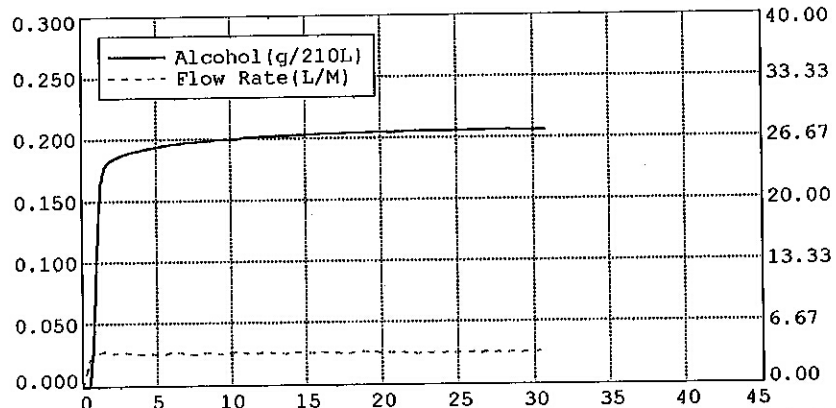
Alaska Department of Public Safety
DATAMASTER dmt: 100416

Date: 06/26/2012
Time: 10:37:23

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

BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.206	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.206	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.206	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.206	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.206	10:44
BLANK TEST	0.000	10:45

Average = 0.2066
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100416

Date: 06/26/2012
Time: 10:48:36

EXTERNAL STANDARD INFORMATION

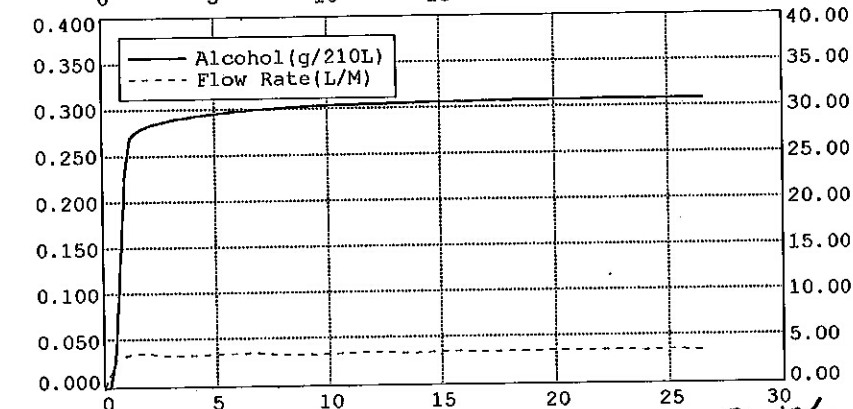
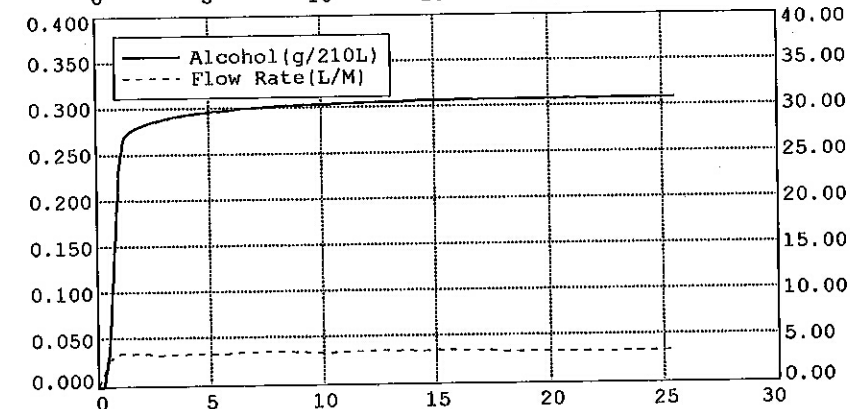
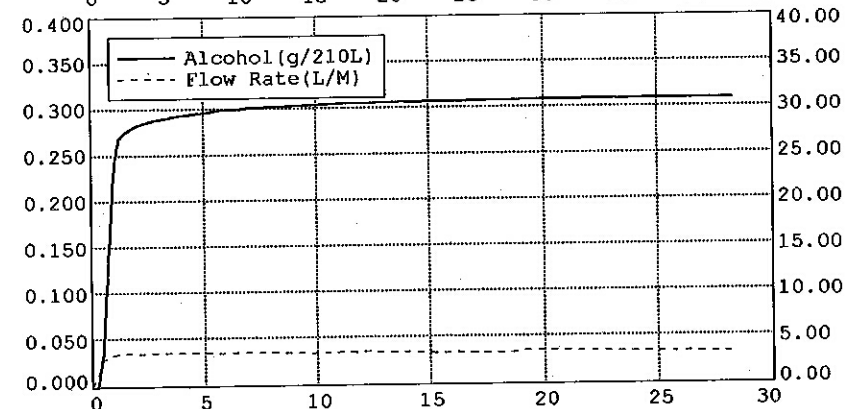
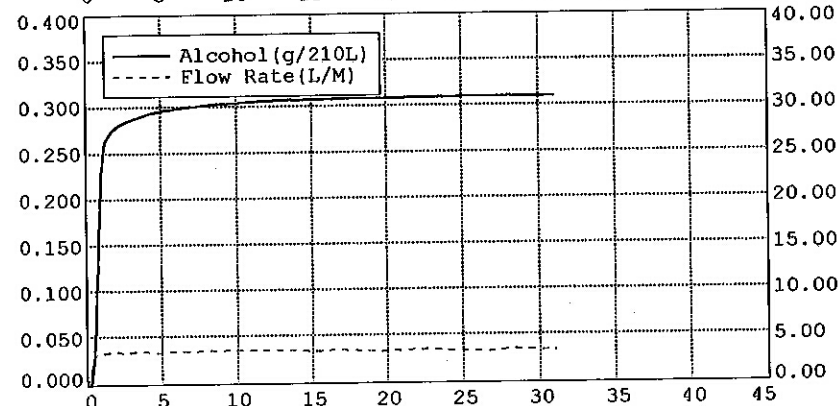
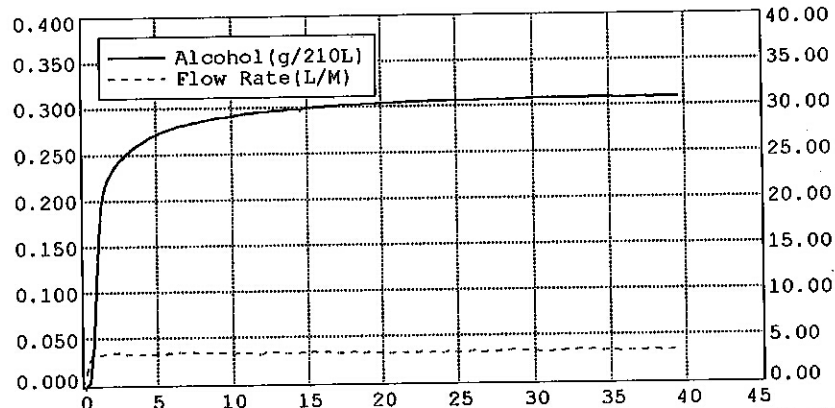
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	10:59
INTERNAL STANDARD	VERIFIED	10:59
EXTERNAL STANDARD	0.310	11:00
BLANK TEST	0.000	11:01
EXTERNAL STANDARD	0.311	11:02
BLANK TEST	0.000	11:03
EXTERNAL STANDARD	0.310	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.309	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.309	11:07
BLANK TEST	0.000	11:08

Average = 0.3102
Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100416

Date: 06/26/2012
Time: 14:07:01

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

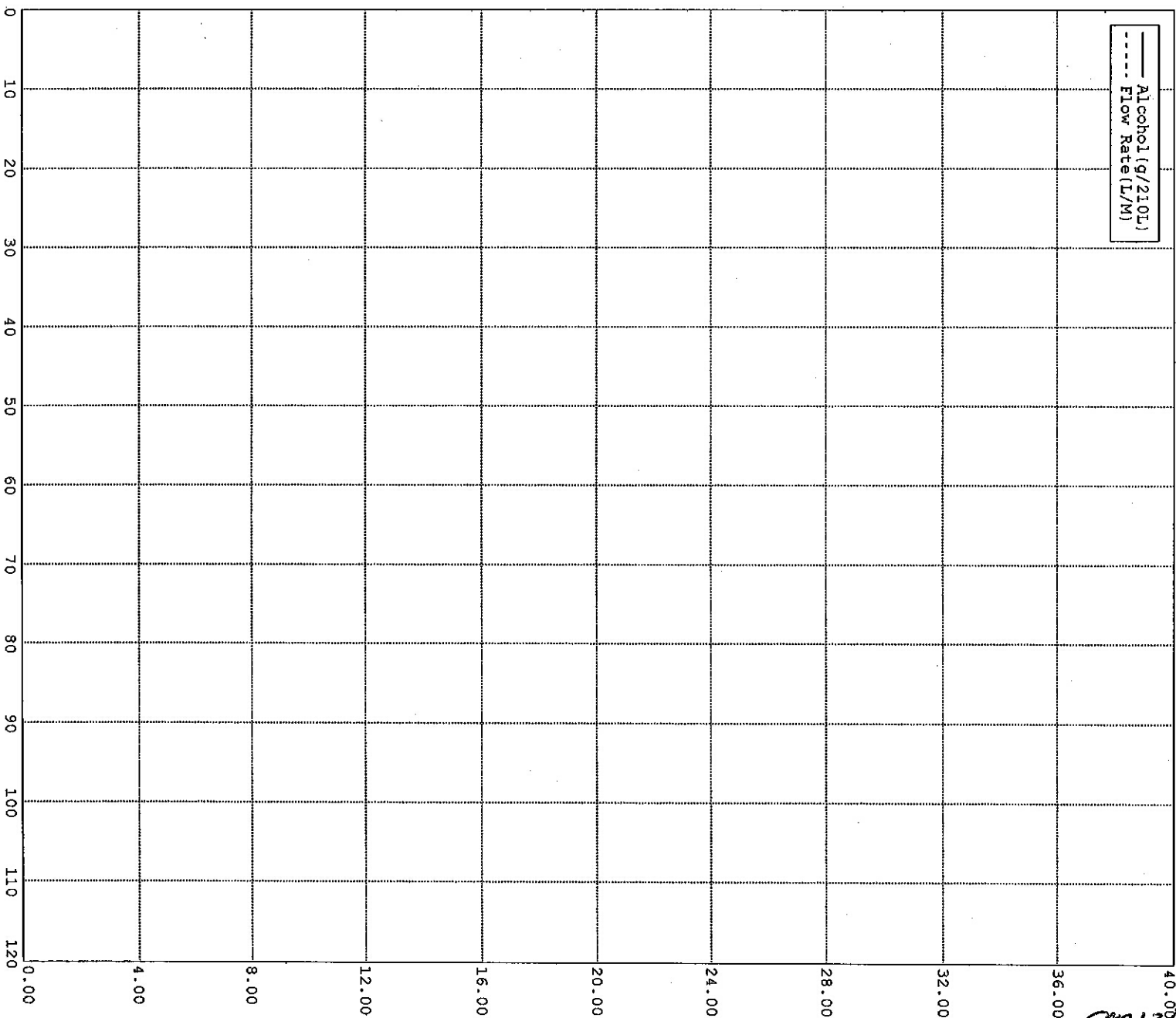
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:08
BLANK TEST	0.000	14:08
INTERNAL STANDARD	VERIFIED	14:08
EXTERNAL STANDARD	0.080	14:08
BLANK TEST	0.000	14:09
SUBJECT SAMPLE	INCOMPLETE	14:11

CS



SUBJECT TEST

Alaska Department of Public Safety
 DATASHEET dnt: 100416

Date: 06/26/2012
 Time: 14:18:07

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

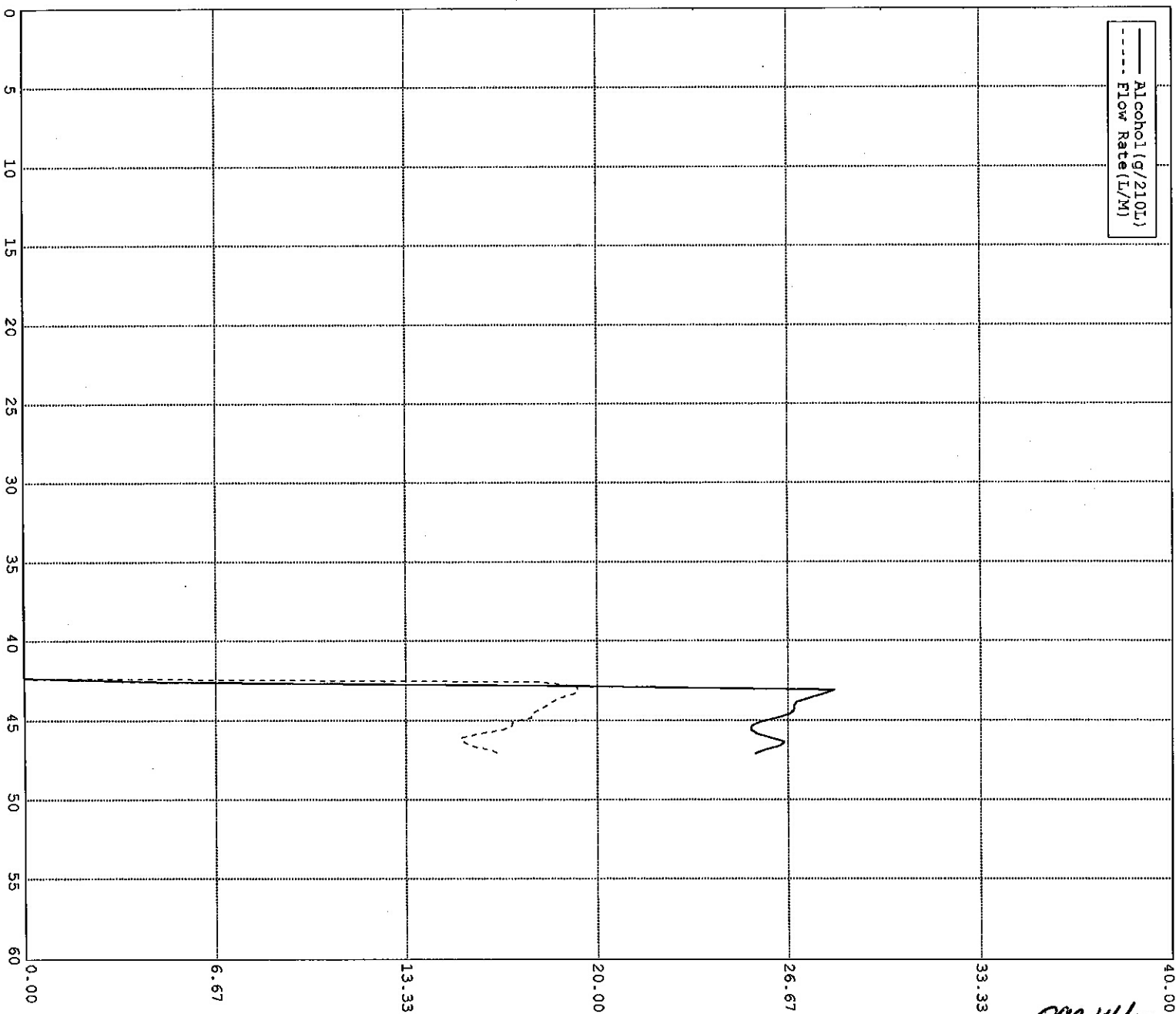
OPERATOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.42: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:19
INTERNAL STANDARD	VERIFIED	14:19
EXTERNAL STANDARD	0.080	14:19
BLANK TEST	0.000	14:20
SUBJECT SAMPLE	INVALID	14:21

COB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100416Date: 06/26/2012
Time: 14:54:20SUBJECT NAME:
TEST TEST
LICENSE #: INT-ACETONEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:55
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
Xg = 0.085 (0.31%)		
EXTERNAL STANDARD	0.080	14:55
X[1] = 0.0806 (0.0022)	(0.0029)	
BLANK TEST	0.000	14:56
SUBJECT SAMPLE	INTERFERENCE	14:57
X[1] = 0.1099 (-0.0149)	(0.0029)	

CB



CB 151

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100416

Date: 06/26/2012
 Time: 15:10:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-IPA

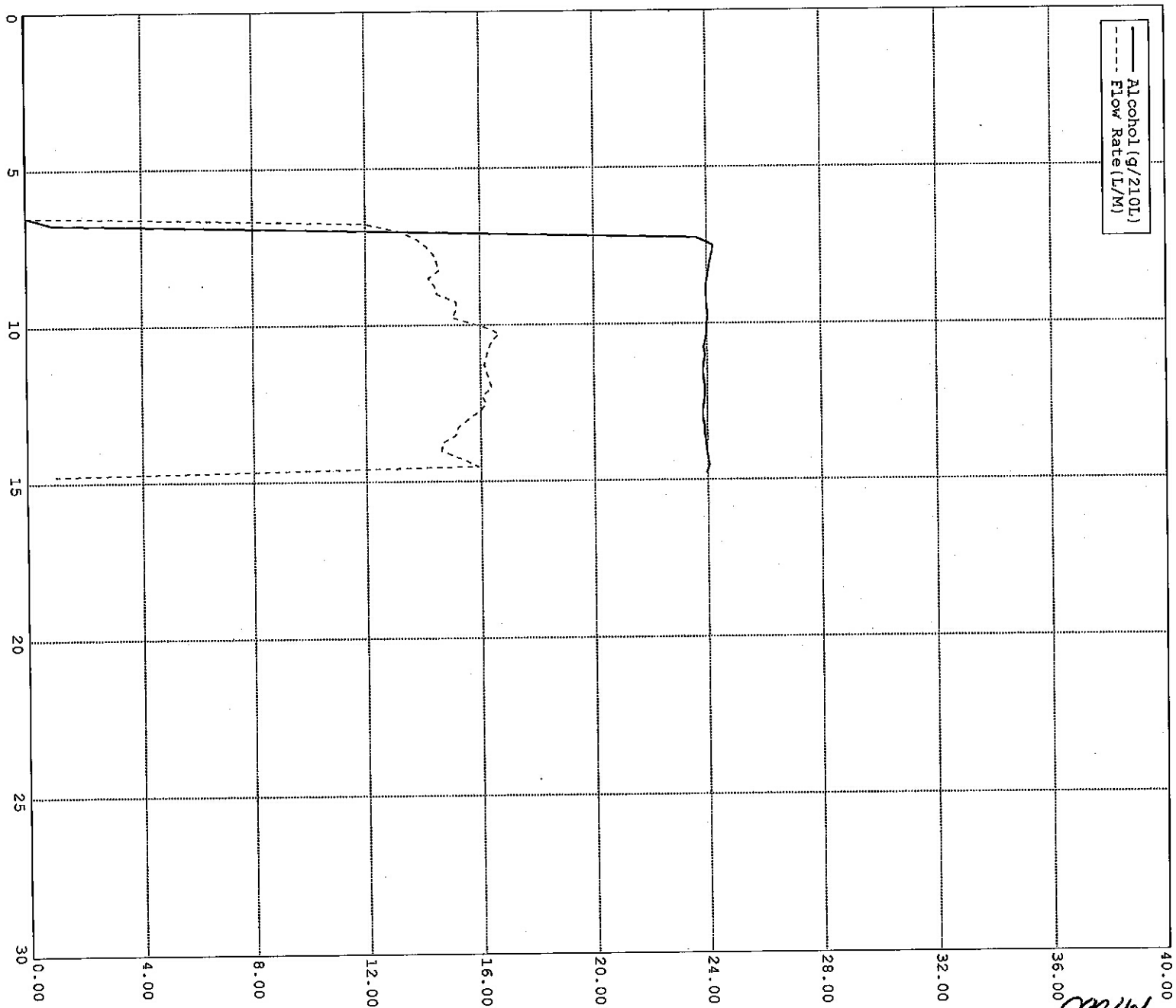
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.42: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:11
BLANK TEST	0.000	15:11
INTERNAL STANDARD	VERIFIED	15:11
X _g = 0.085 (0.41%)		
EXTERNAL STANDARD	0.080	15:12
X[1] = 0.0808 (0.0008) (0.0022)		
BLANK TEST	0.000	15:13
SUBJECT SAMPLE	INTERFERENCE	15:13
X[1] = 0.1204 (-0.0232) (0.0005)		

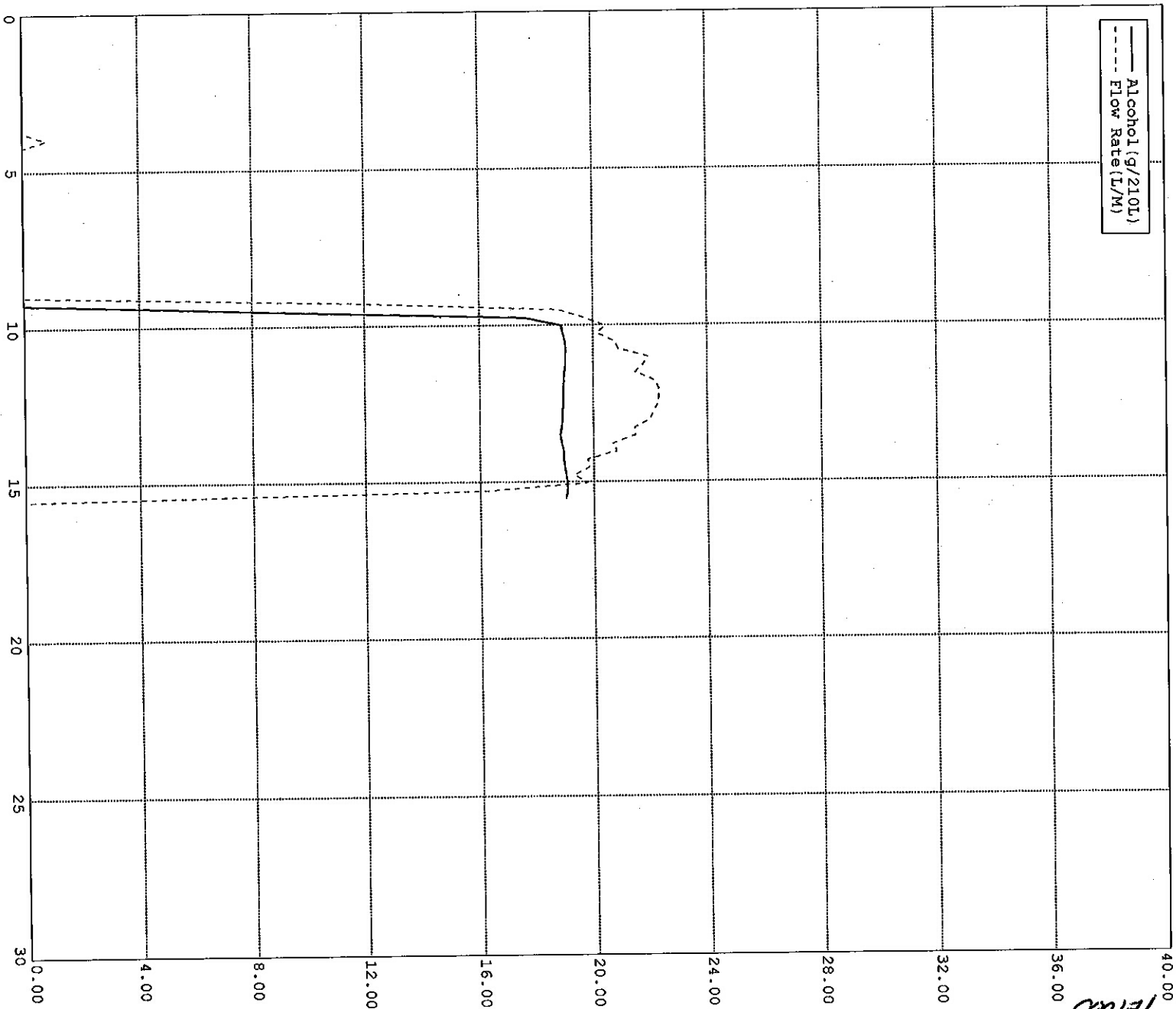
CUB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100416Date: 06/26/2012
Time: 15:03:28SUBJECT NAME:
TEST TEST
LICENSE #: INT-NEGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:04
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
Xg = 0.085 (0.51%)	0.080	15:04
EXTERNAL STANDARD	0.0025	15:05
X[1] = 0.0804 (0.0011)	0.000	15:06
BLANK TEST	0.095	15:07
SUBJECT SAMPLE (Vol=2.13L)	0.0004	15:07
X[1] = 0.0957 (-0.0010)	0.000	15:07
BLANK TEST	0.080	15:07
EXTERNAL STANDARD	0.0013	15:08
X[1] = 0.0801 (0.0012)	0.000	15:08
BLANK TEST		

Alcohol (g/210L)
Flow Rate (L/M)

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100416

Date: 06/26/2012
Time: 15:17:01

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

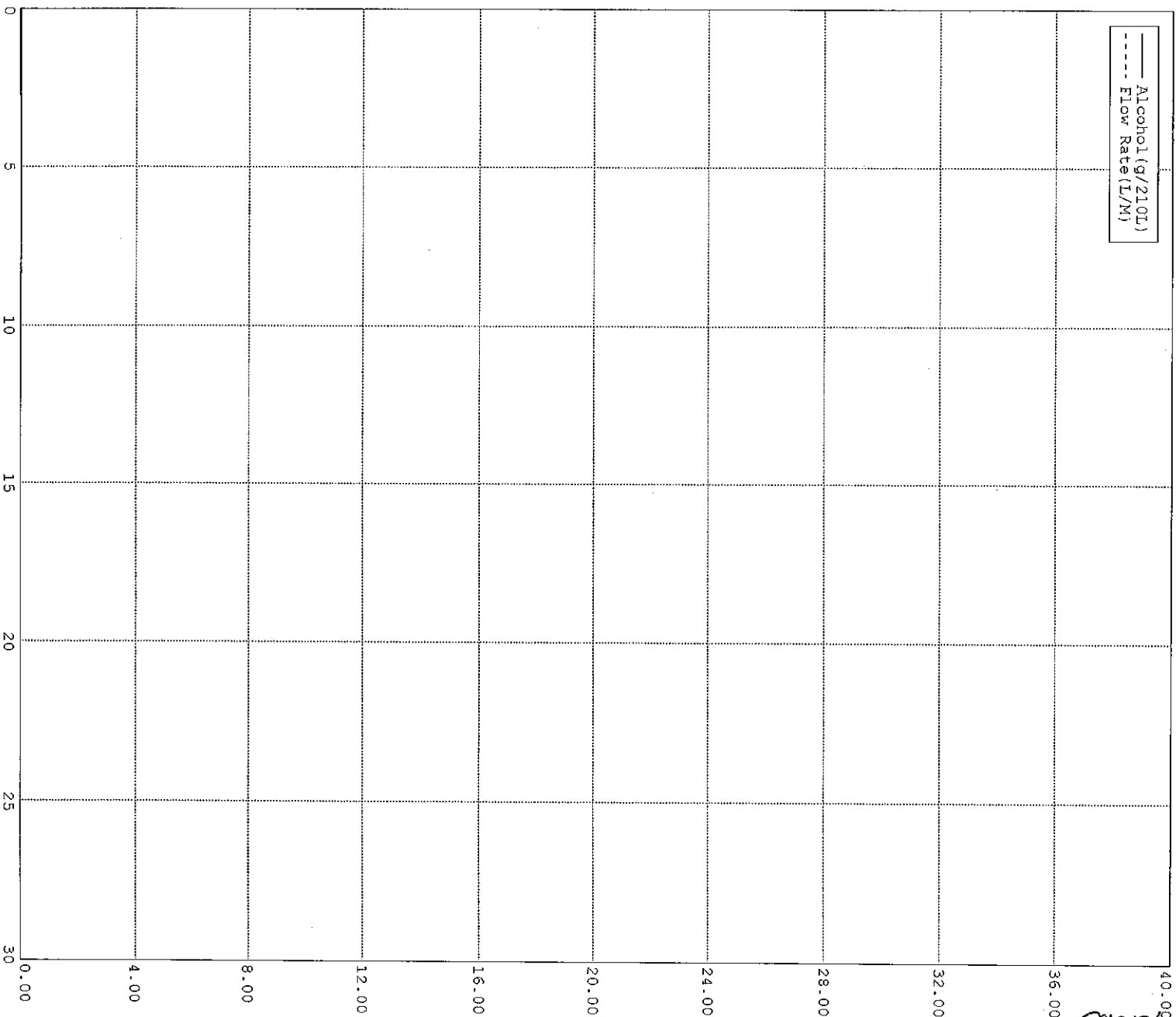
OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.42: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:18
INTERNAL STANDARD 0.000 15:18
EXTERNAL STANDARD VERIFIED 15:18
0.080 15:18
BLANK TEST 0.000 15:19

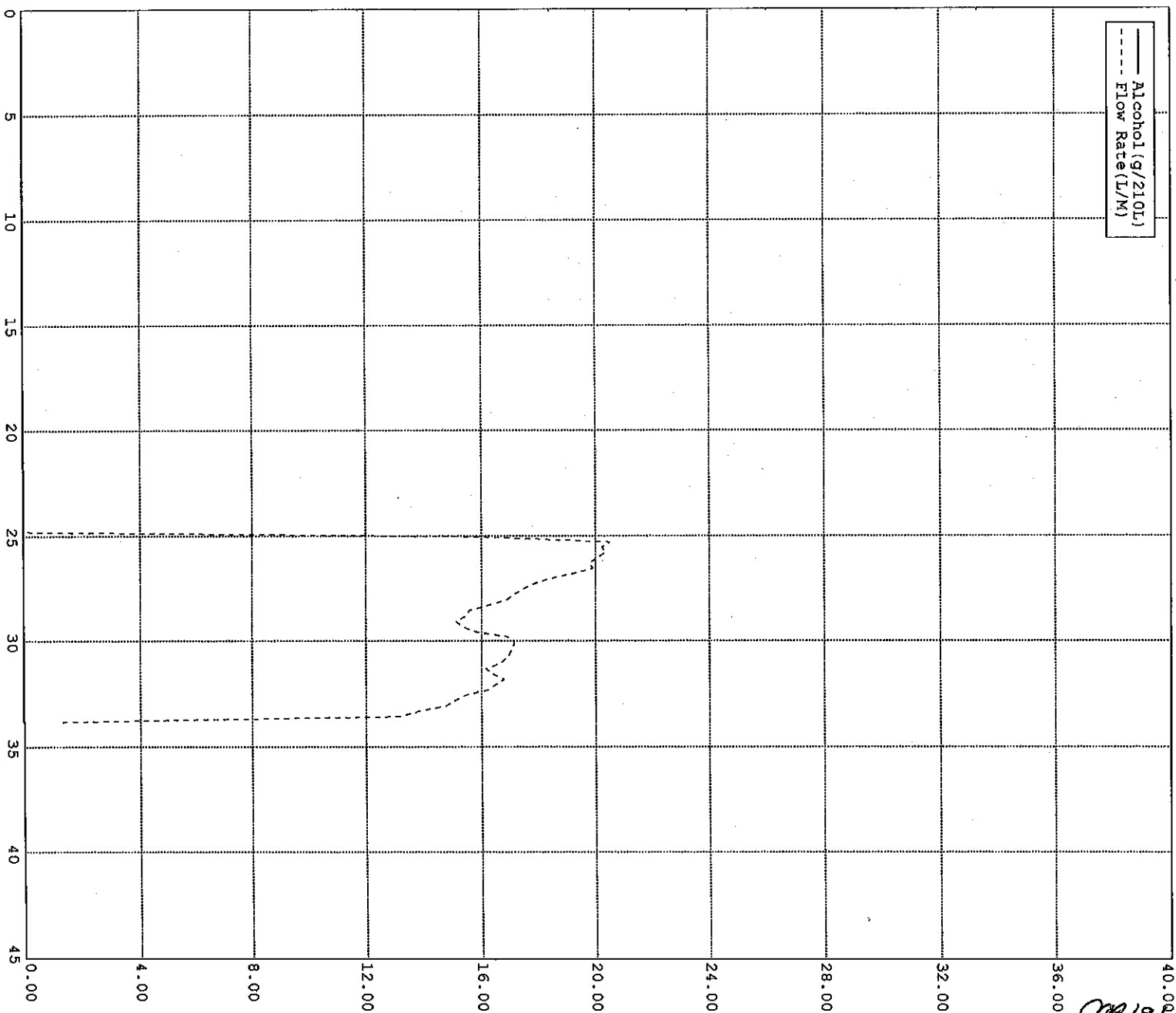
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100416Date: 06/29/2012
Time: 12:23:32SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKINGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAA1CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.69: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:24
BLANK TEST	0.000	12:24
INTERNAL STANDARD	0.081	12:24
EXTERNAL STANDARD	0.000	12:25
BLANK TEST	0.000	12:26
SUBJECT SAMPLE	0.000	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.081	12:27
BLANK TEST	0.000	12:28

Alcohol (g/210L)
Flow Rate (L/M)

CB

Final page for report

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2/18/2014