

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100404 Analyst Colleen O'Bryant Start Date 5/14/2012Diagnostic 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 ILMO Lot 15210020A1 Exp 07/01/2012ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/20131. Simulator S/N SD1176 Date Calibrated 08/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N DR4176 Date Calibrated 02/21/2012

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/13
10/13/121. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/20121. Simulator S/N DR6267 Date Calibrated 1/10/2012iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 10/06/20131. Simulator S/N SD1202 Date Calibrated 8/17/2011d. 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 05/15/2012

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All printed copies are uncontrolled.

Approved by Forensic Alcohol Supervisor

COB 1/19

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 05/14/2012
Time: 10:17:31

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO

Flow Rate = 5.470 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

INTERNAL STANDARD	PASSED
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COB 5/19

Technician Screen

DATAMASTER dmt: 100404
-----Date: 05/14/2012
Time: 10:32 AMTemperatures (°C)
Sample Cell: 49.1°C
Breath Tube: 47.7°CCurrent Barometer 29.9 in
Volume (Ltr) 1.60Settings
Lamp: 1.77 V
Bias: 82 V
Cooler: 1.68 V
Chopper: 533 HzVoltages (V)
Flow: 1.06 V
Detector: -0.096 V

05/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 05/18/2011
Time: 14:02:44

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 01/01/2012

Ca = 0.1000
CAL = 0.970035 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0071 0.0010 <= b2 < 0.0100
b3 = 0.0001 0.0000 <= b3 < 0.0040
Xq = 0.0888 0.0500 <= Xq < 0.2000
a21 = 1.183100 1.050 <= a21 < 1.300
a31 = 0.434619 0.300 <= a31 < 0.800

0034/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100404

Date: 05/14/2012
 Time: 10:43:12

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

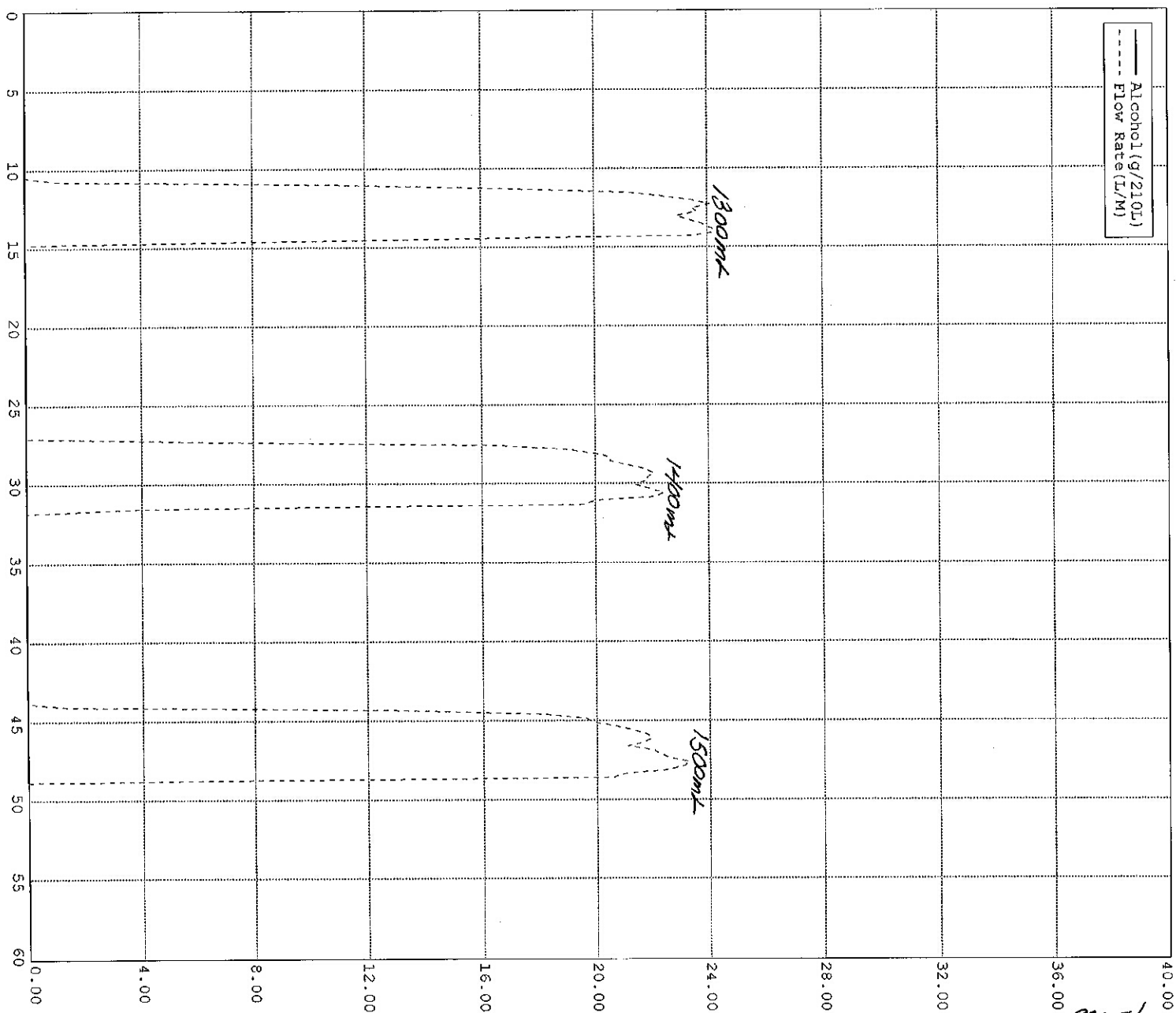
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.93: 0.080
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:44
BLANK TEST	0.000	10:44
INTERNAL STANDARD	VERIFIED	10:45
EXTERNAL STANDARD	0.078	10:45
BLANK TEST	0.000	10:46
SUBJECT SAMPLE	0.000	10:47
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.079	10:48
BLANK TEST	0.000	10:49

CARB



0035/19

LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100404

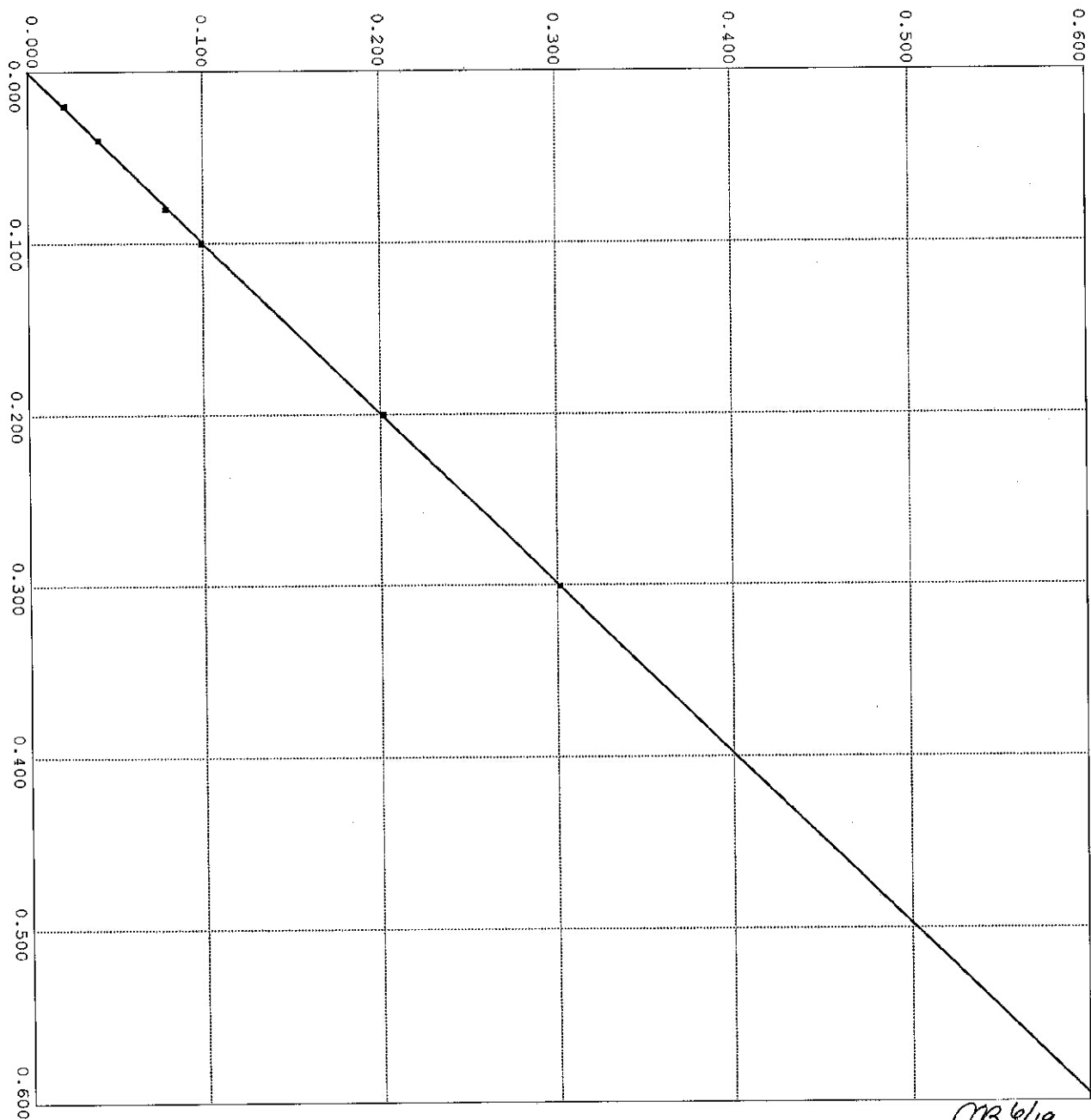
Date: 05/14/2012
 Time: 12:54:40

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

TARGET	AVERAGE	STD. DEV.
0.020	0.0214	0.0001
0.040	0.0405	0.0001
0.080	0.0792	0.0003
0.100	0.0999	0.0002
0.200	0.2025	0.0002
0.300	0.3021	0.0004

SLOPE = 1.007343
 R^2 = 0.999907

CB



CB 6/19

LINEARITY CHECK: Control Test 1

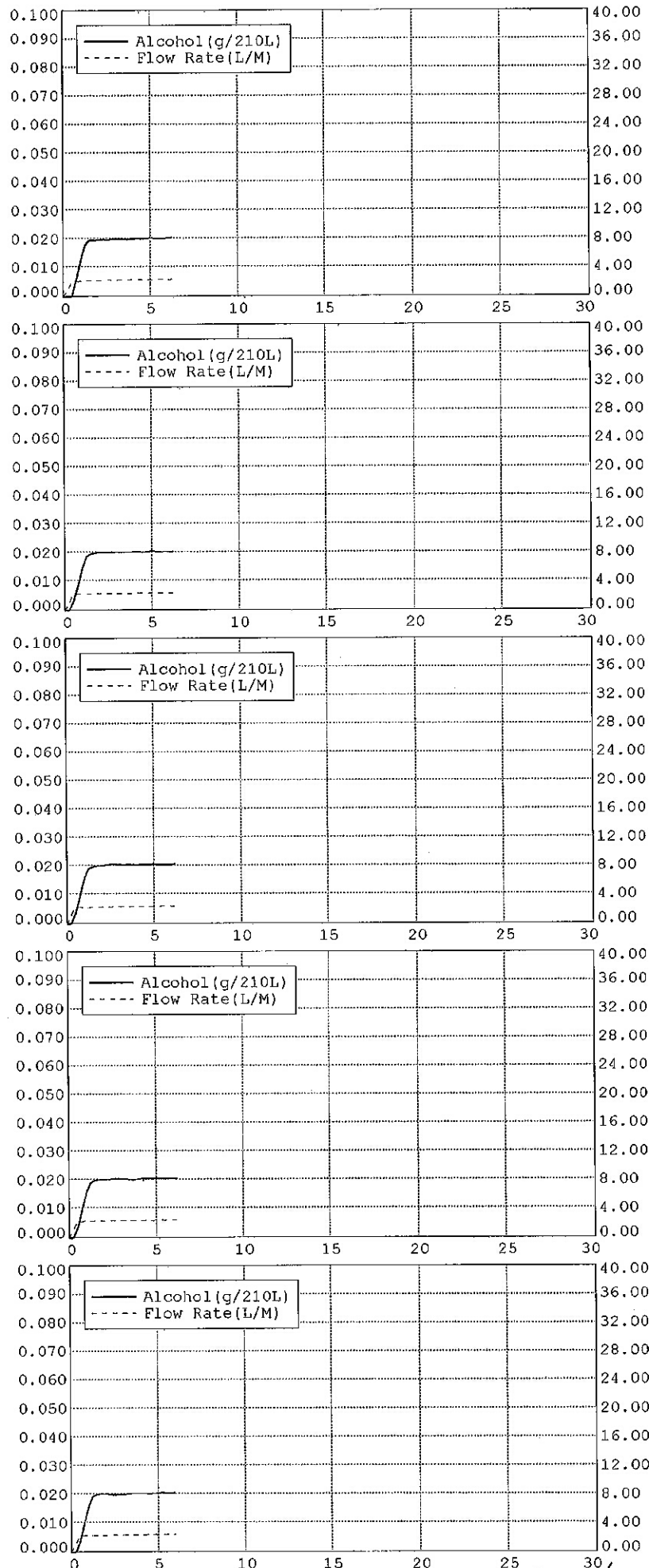
Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 05/14/2012
Time: 12:54:42

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.95: 0.020
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	12:57
INTERNAL STANDARD	VERIFIED	12:58
EXTERNAL STANDARD	0.021	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.021	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.021	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.021	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.021	13:02
BLANK TEST	0.000	13:03

Average = 0.0214
Std Dev = 0.0001



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LINEARITY CHECK: Control Test 2

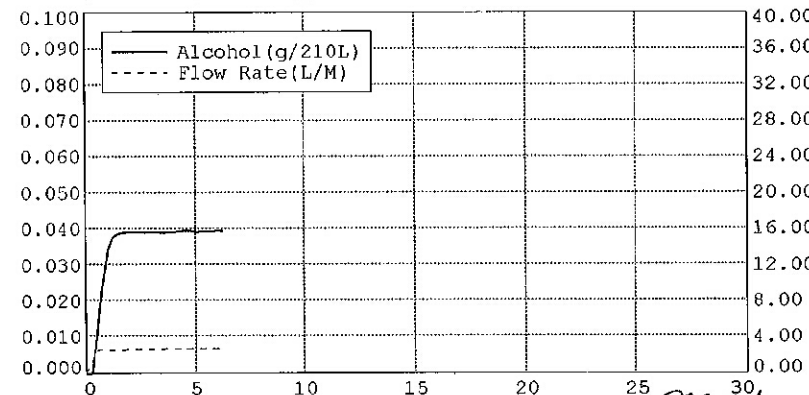
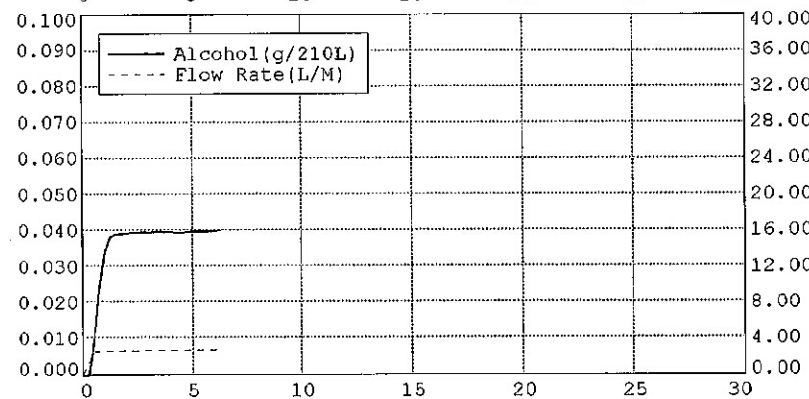
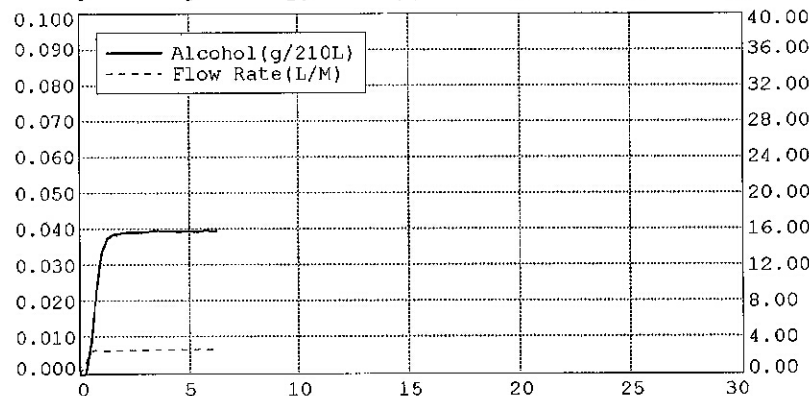
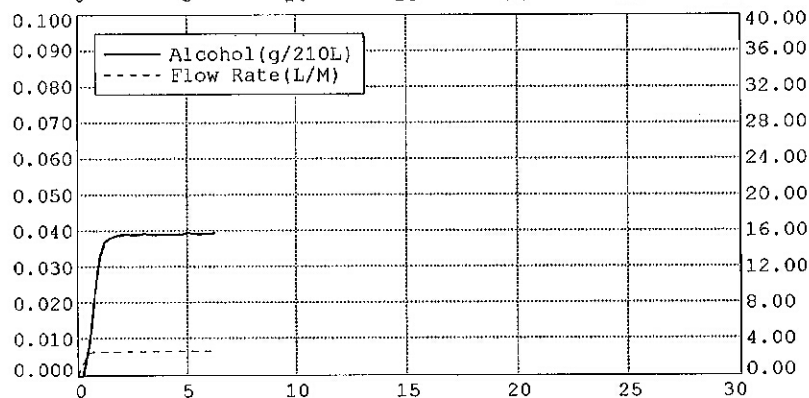
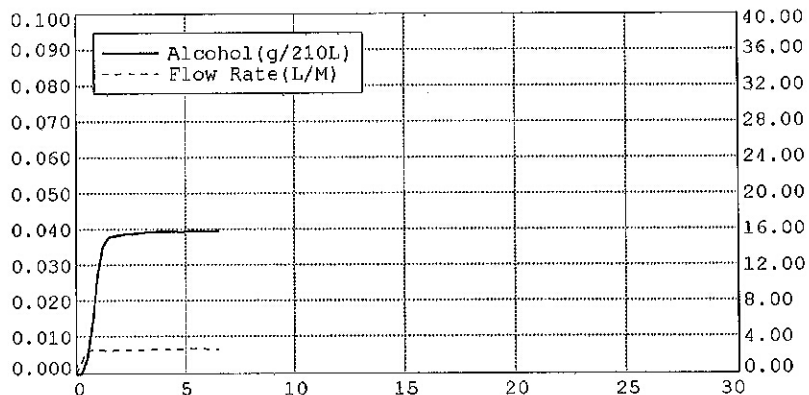
Alaska Department of Public Safety
DATAMASTER dnt: 100404

Date: 05/14/2012
Time: 13:03:59

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.95: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
EXTERNAL STANDARD	0.040	13:06
BLANK TEST	0.000	13:07
EXTERNAL STANDARD	0.040	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.040	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.040	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.040	13:10
BLANK TEST	0.000	13:11

Average = 0.0405
Std Dev = 0.0001



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LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100404

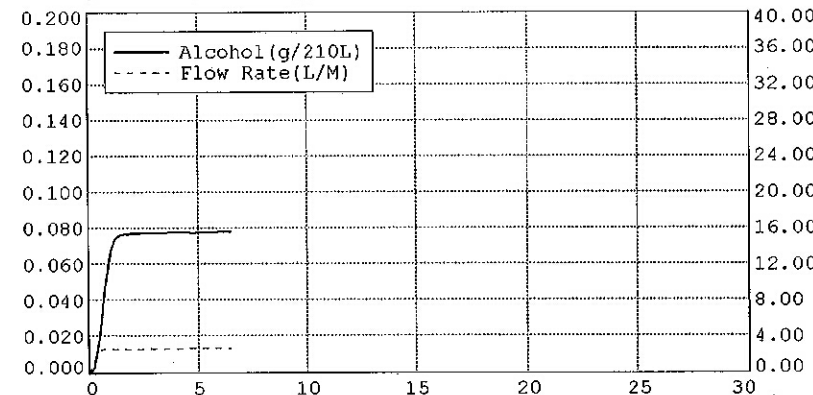
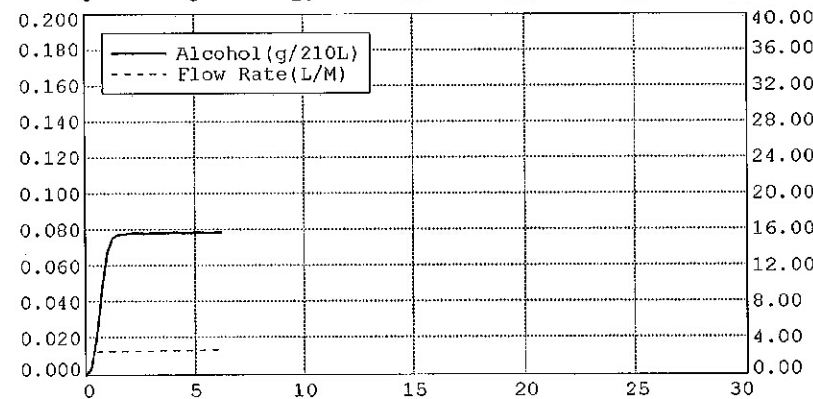
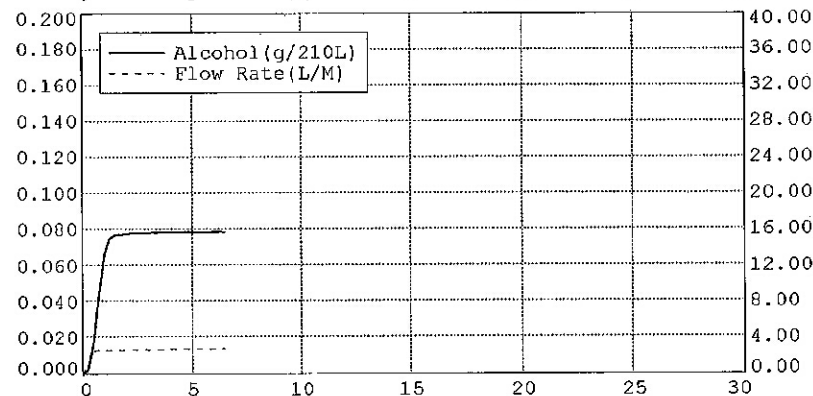
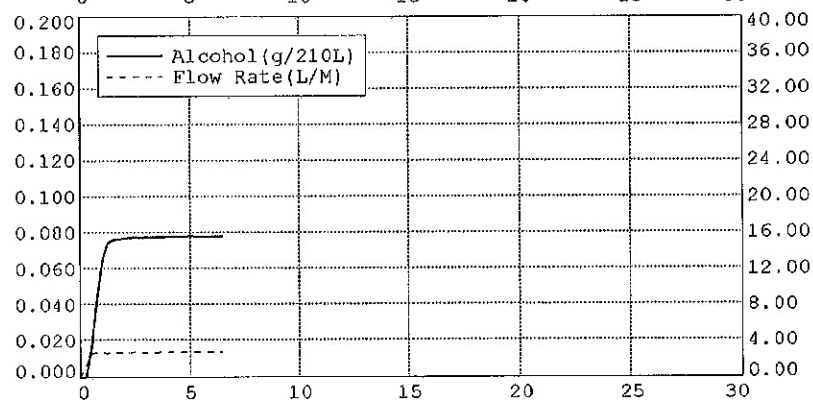
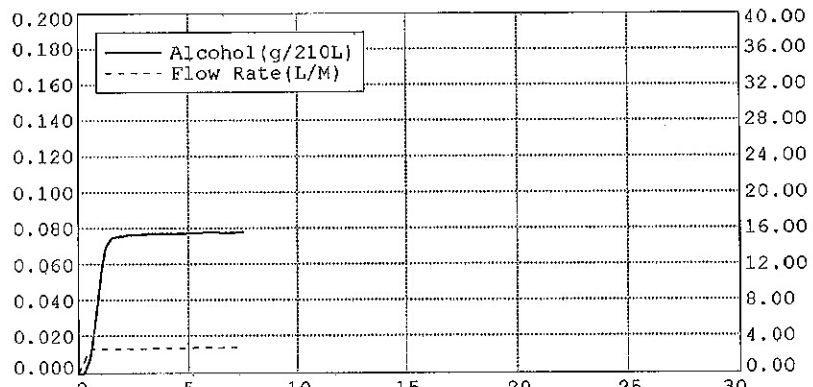
Date: 05/14/2012
Time: 13:14:06

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:17
INTERNAL STANDARD	VERIFIED	13:17
EXTERNAL STANDARD	0.079	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.079	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.079	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.079	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.078	13:22
BLANK TEST	0.000	13:22

Average = 0.0792
Std Dev = 0.0003



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LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100404

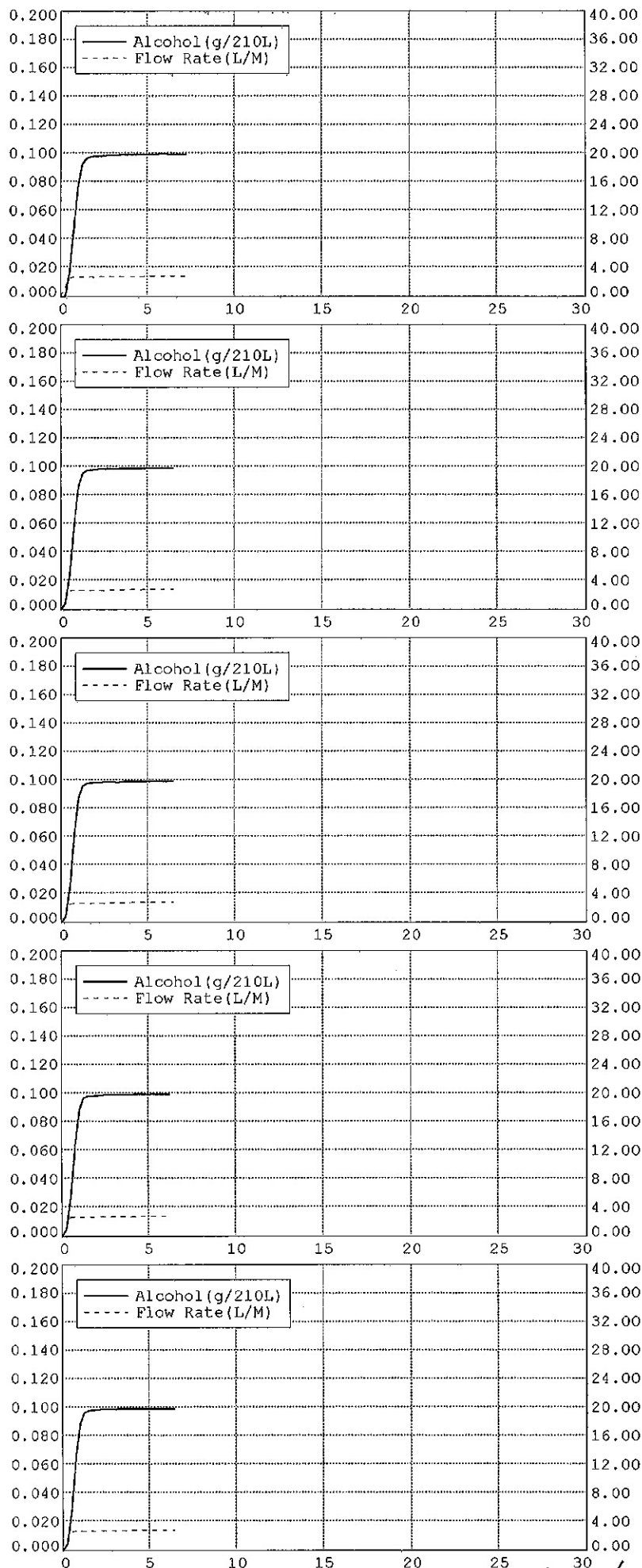
Date: 05/14/2012
Time: 13:24:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.95: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:25
INTERNAL STANDARD	VERIFIED	13:25
EXTERNAL STANDARD	0.100	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.099	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.099	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.100	13:29
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.099	13:30
BLANK TEST	0.000	13:31

Average = 0.0999
Std Dev = 0.0002



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LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dnt: 100404

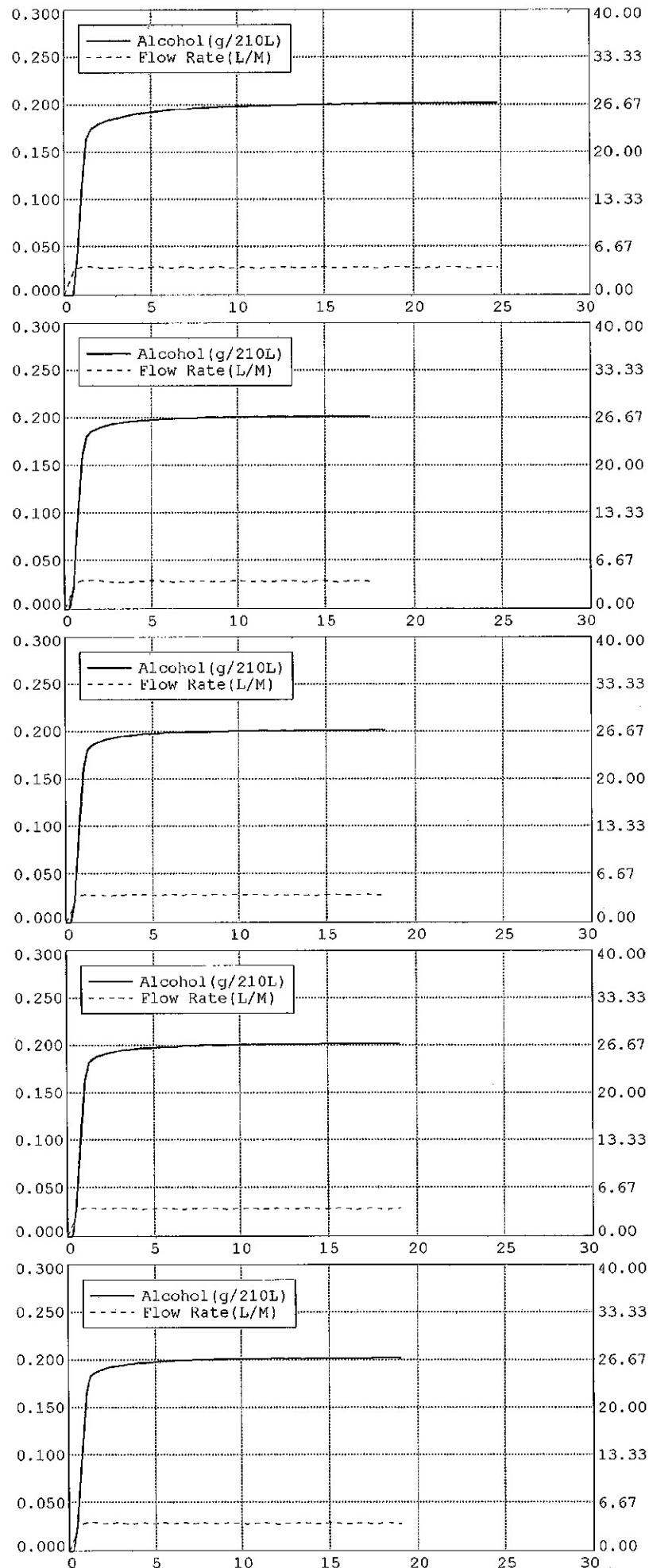
Date: 05/14/2012
Time: 13:31:36

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:33
INTERNAL STANDARD	VERIFIED	13:33
EXTERNAL STANDARD	0.202	13:33
BLANK TEST	0.000	13:34
EXTERNAL STANDARD	0.202	13:35
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.202	13:36
BLANK TEST	0.000	13:37
EXTERNAL STANDARD	0.202	13:37
BLANK TEST	0.000	13:38
EXTERNAL STANDARD	0.202	13:39
BLANK TEST	0.000	13:39

Average = 0.2025
Std Dev = 0.0002



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LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100404

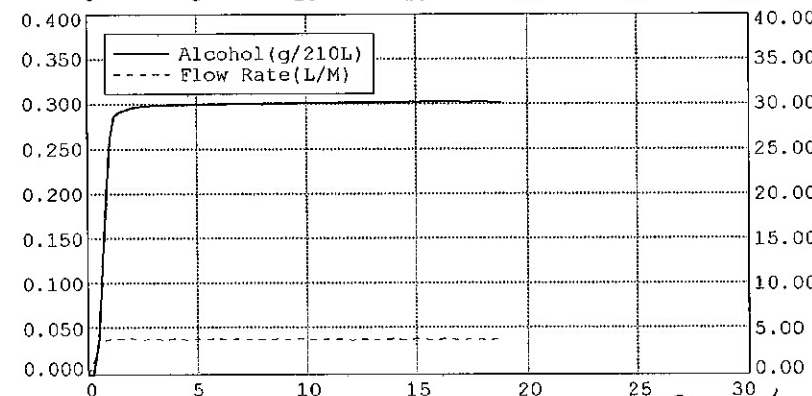
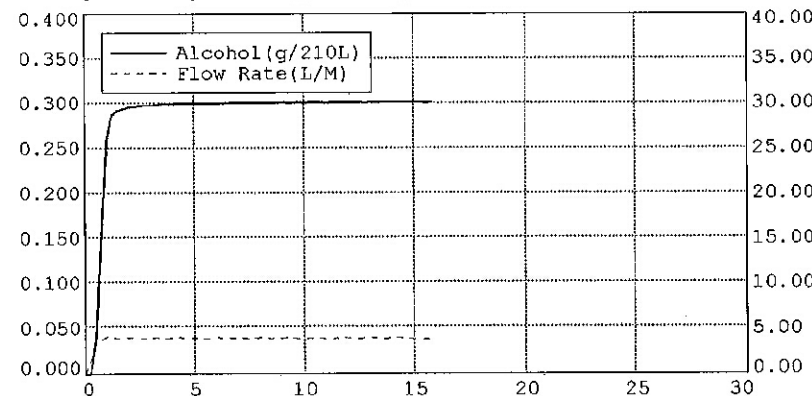
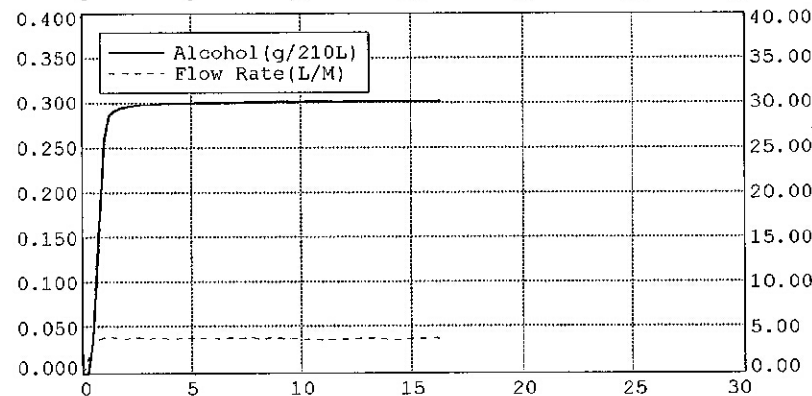
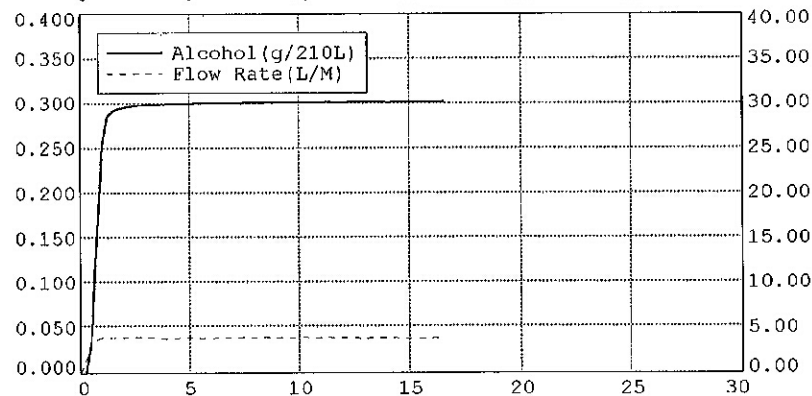
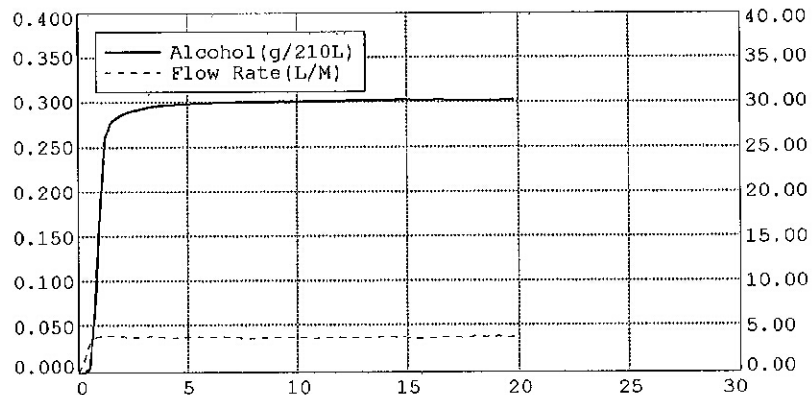
Date: 05/14/2012
Time: 13:42:12

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:44
INTERNAL STANDARD	VERIFIED	13:44
EXTERNAL STANDARD	0.302	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.302	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.302	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.301	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.302	13:50
BLANK TEST	0.000	13:51

Average = 0.3021
Std Dev = 0.0004



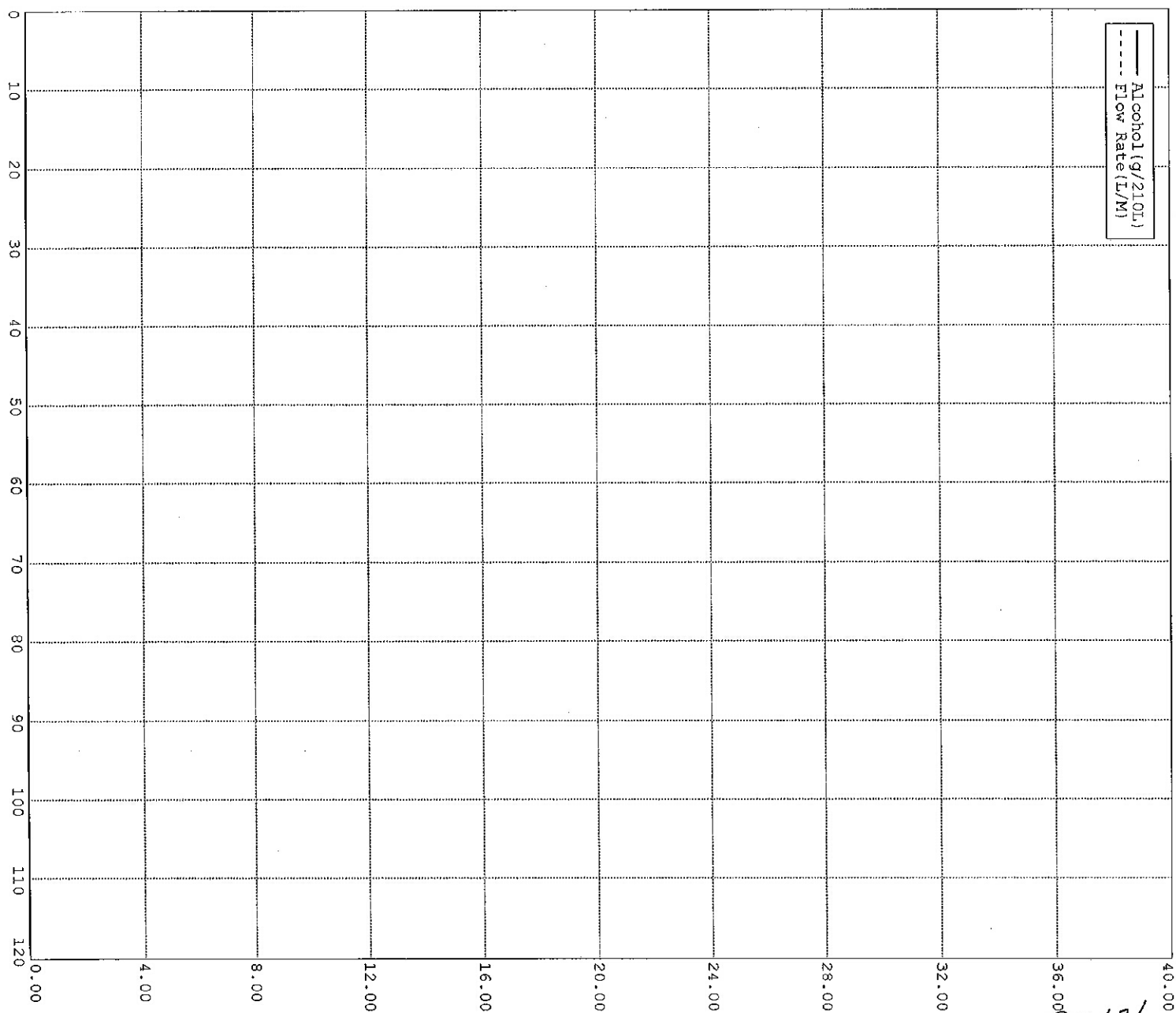
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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404Date: 05/14/2012
Time: 14:08:42SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETEOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:14
BLANK TEST	0.000	14:14
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.079	14:15
BLANK TEST	0.000	14:16
SUBJECT SAMPLE	INCOMPLETE	14:18

CAB



CAB 13/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100404

Date: 05/14/2012

Time: 14:22:44

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 29.95: 0.080

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED 14:23

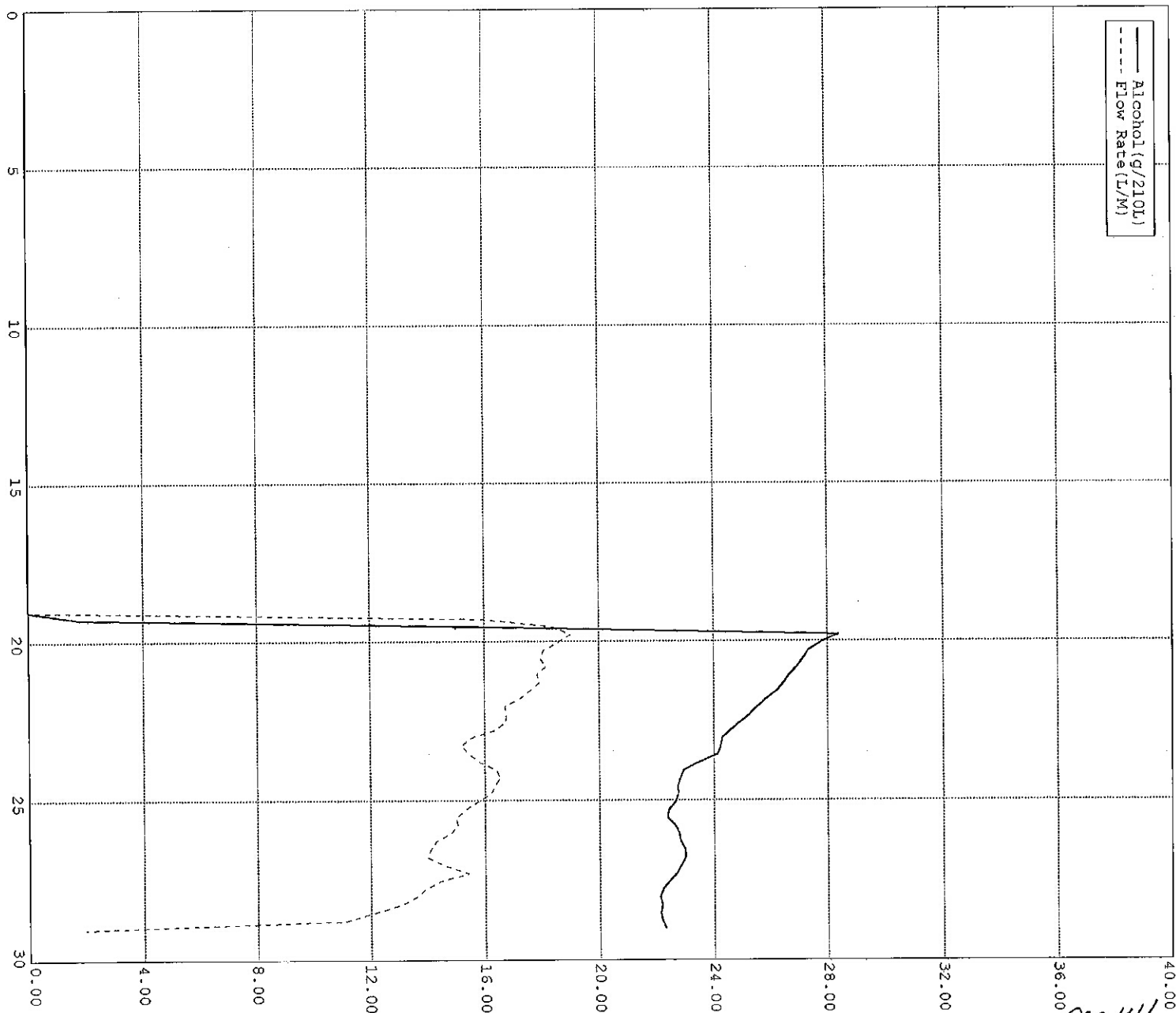
0.000 14:23

VERIFIED 14:23

0.077 14:24

0.000 14:25

INVALID 14:25

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

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100404

Date: 05/14/2012

Time: 14:35:35

SUBJECT NAME:

TEST TEST

LICENSE #: INT-ACETONE

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 29.95: 0.080

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

Xq = 0.089 (0.20%)

EXTERNAL STANDARD

X[1] = 0.0793 (-0.0027)

BLANK TEST

SUBJECT SAMPLE

X[1] = 0.0788 (-0.0075)

PASSED 14:37

0.000 14:37

VERIFIED 14:37

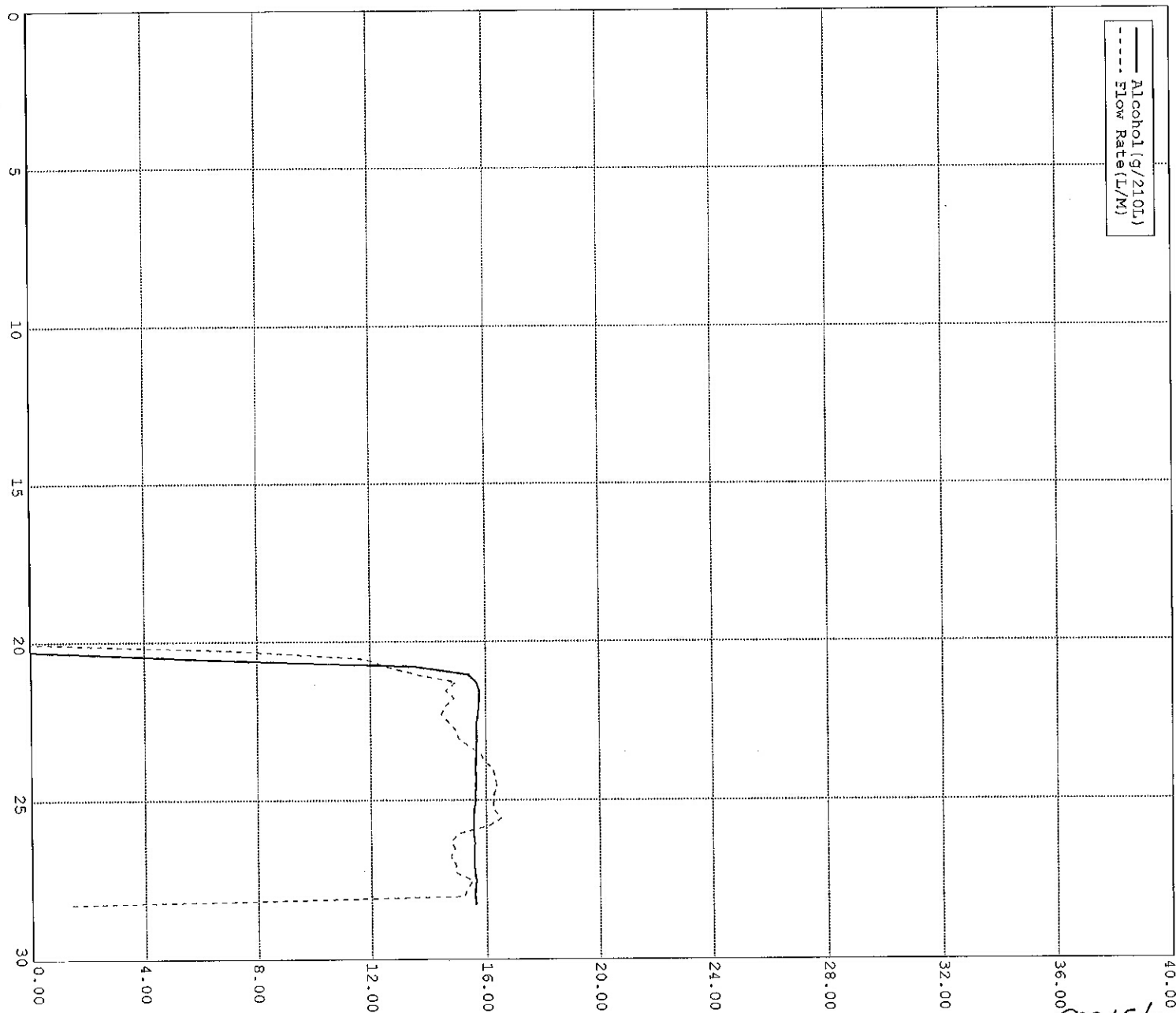
0.079 14:37

(0.0035) 14:38

0.000 14:38

INTERFERENCE 14:39

(0.0016)

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

COB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100404

Date: 05/14/2012

Time: 14:42:08

SUBJECT NAME:

TEST TEST

LICENSE #: INT-IPA

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 29.95: 0.080

LOT #: 07511080a1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

PASSED 14:43

BLANK TEST

0.000 14:43

INTERNAL STANDARD

VERIFIED 14:43

X_g = 0.089 (0.10%)

EXTERNAL STANDARD 0.079 14:44

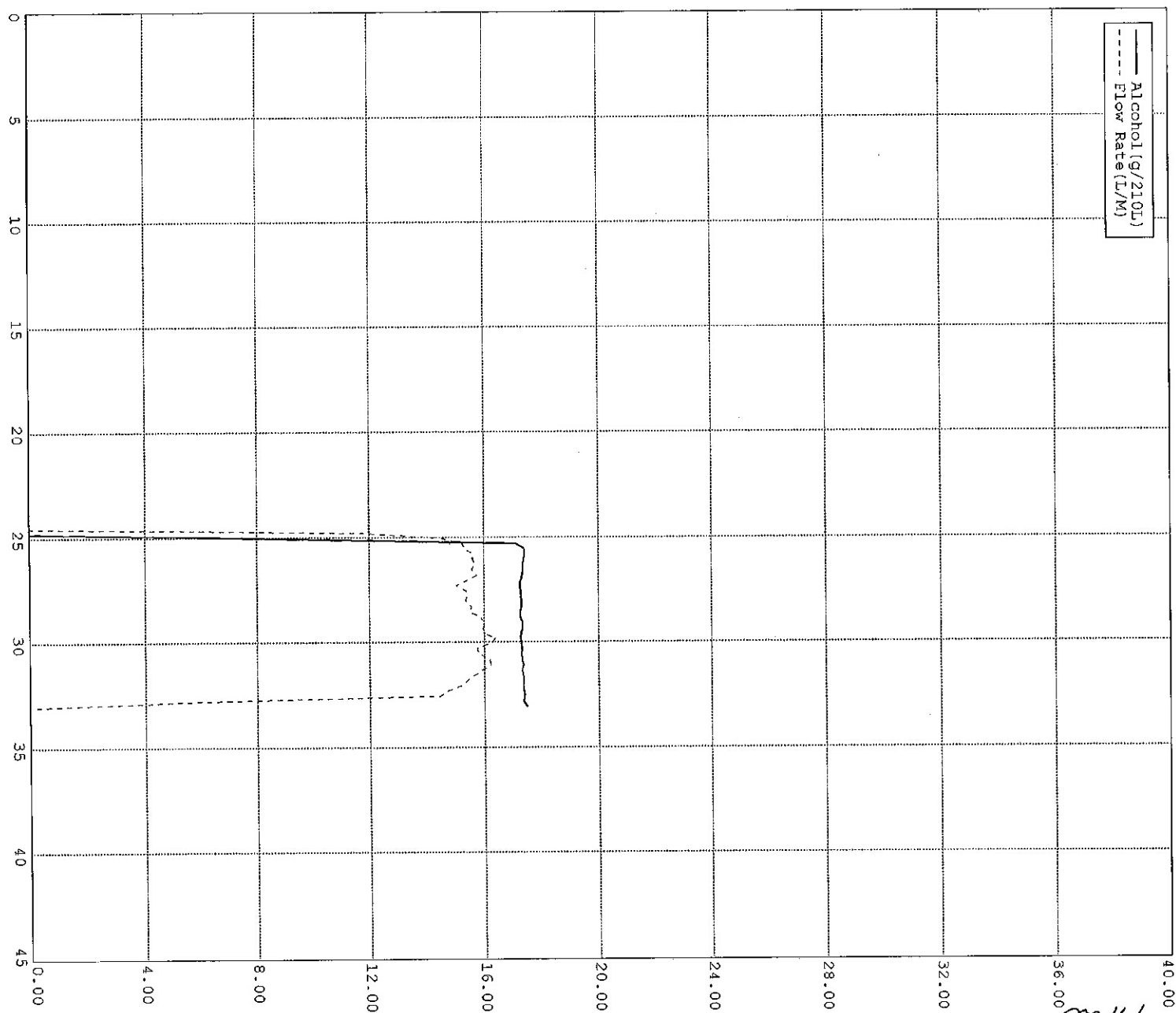
X_{l1} = 0.0790 (-0.0031) (0.0027)

BLANK TEST 0.000 14:45

SUBJECT SAMPLE INTERFERENCE 14:45

X_{l1} = 0.0876 (-0.0252) (0.0016)

OB



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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 05/14/2012

Time: 14:56:43

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

NOMINAL: 0.080

TARGET AT 29.96: 0.080

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

Xg = 0.089 (0.49%)

EXTERNAL STANDARD

X[1] = 0.0797 (-0.0028) (0.0021)

BLANK TEST

SUBJECT SAMPLE (Vol=2.17L) (0.0009)

X[1] = 0.0870 (-0.0004) (0.0009)

BLANK TEST

EXTERNAL STANDARD

X[1] = 0.0785 (-0.0034) (0.0021)

BLANK TEST

PASSED 14:58
0.000 14:58

VERIFIED 14:58

0.079 14:58

0.000 14:59

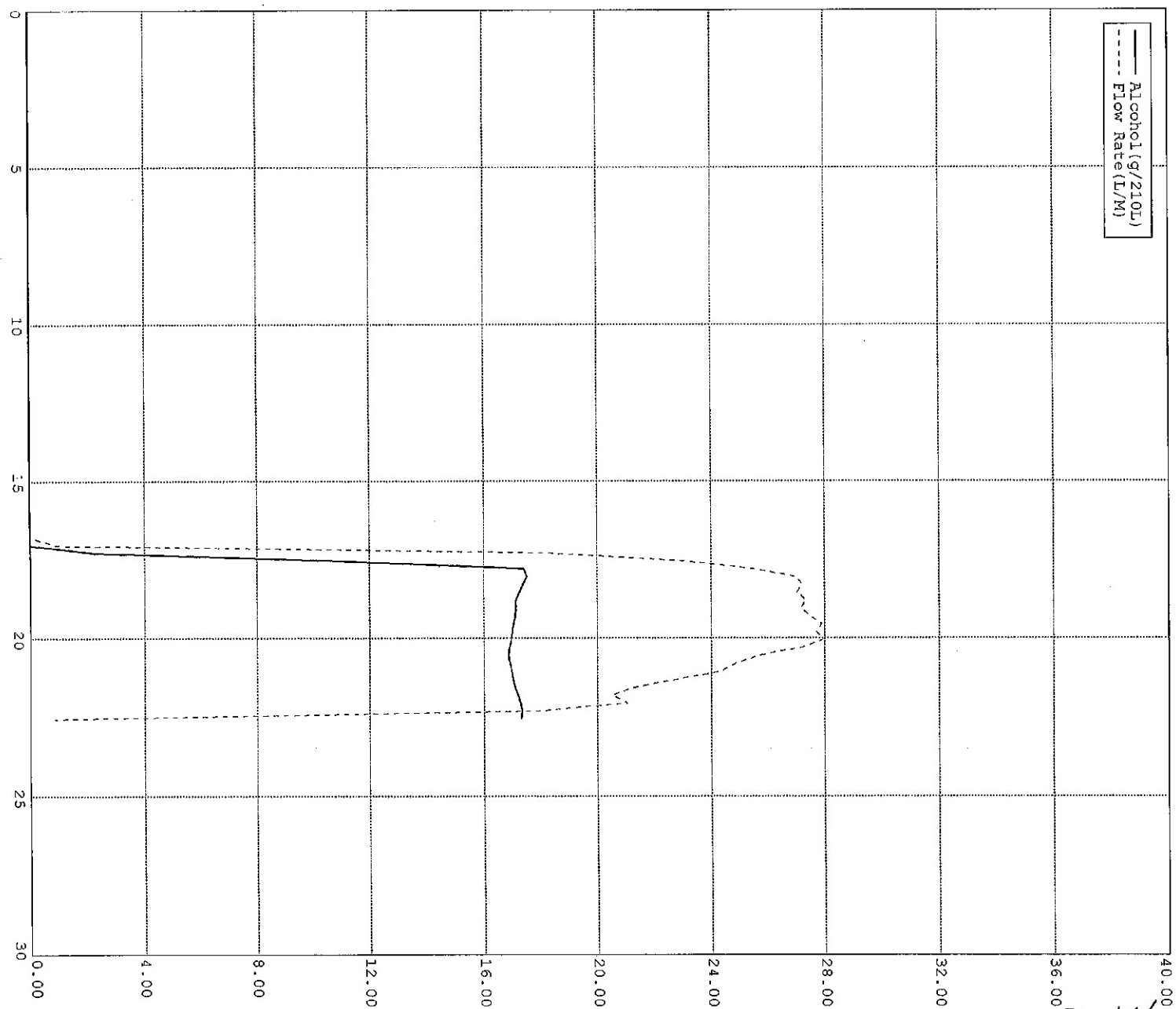
0.087 15:00

0.000 15:01

0.078 15:01

0.000 15:02

CAB



CAB 17/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404

Date: 05/14/2012

Time: 15:06:56

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 29.96: 0.080

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

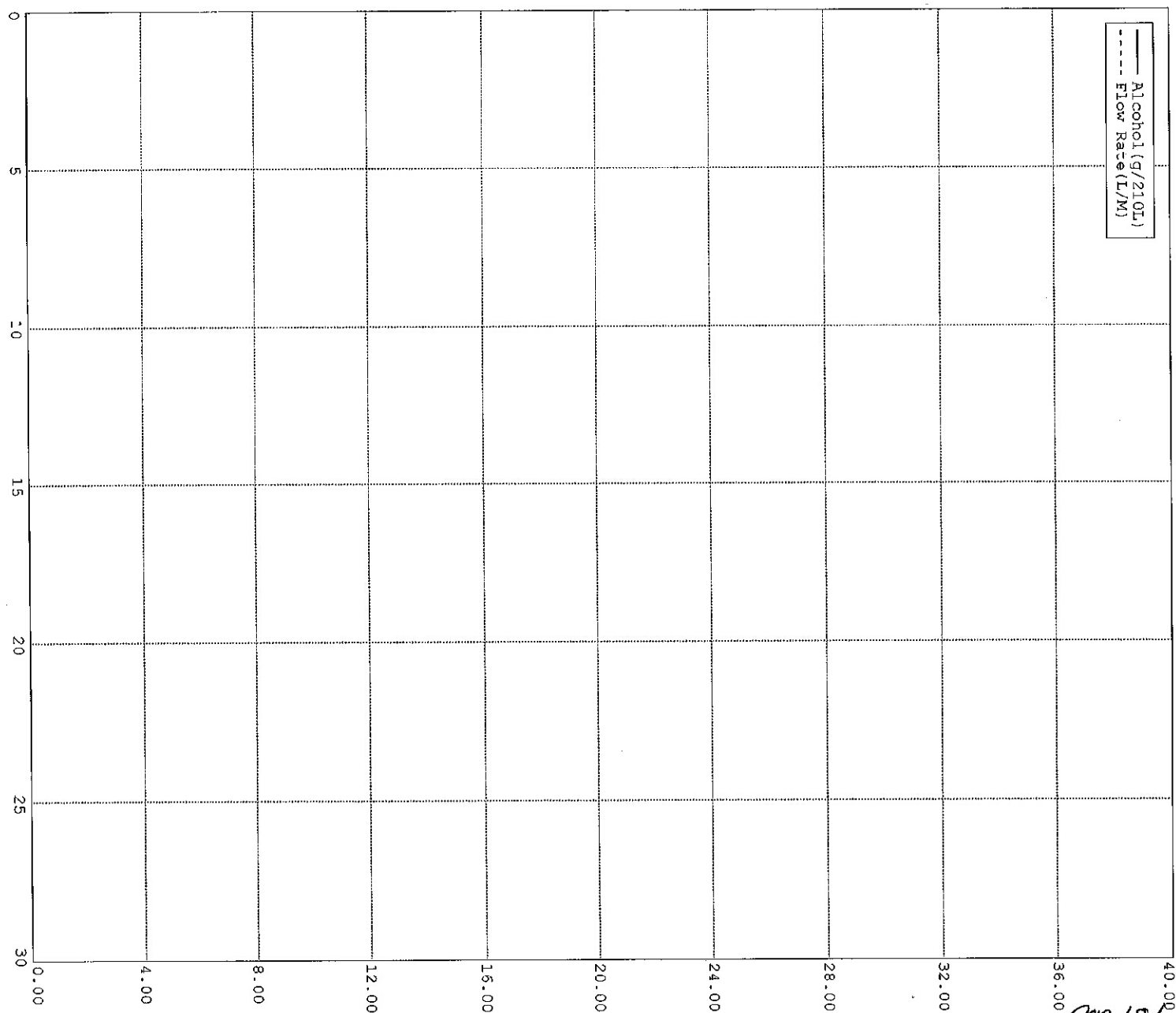
BLANK TEST

INTERNAL STANDARD

BLANK TEST

RFI DETECTED

PASSED	15:08
0.000	15:08
VERIFIED	15:08
0.079	15:08
0.000	15:09

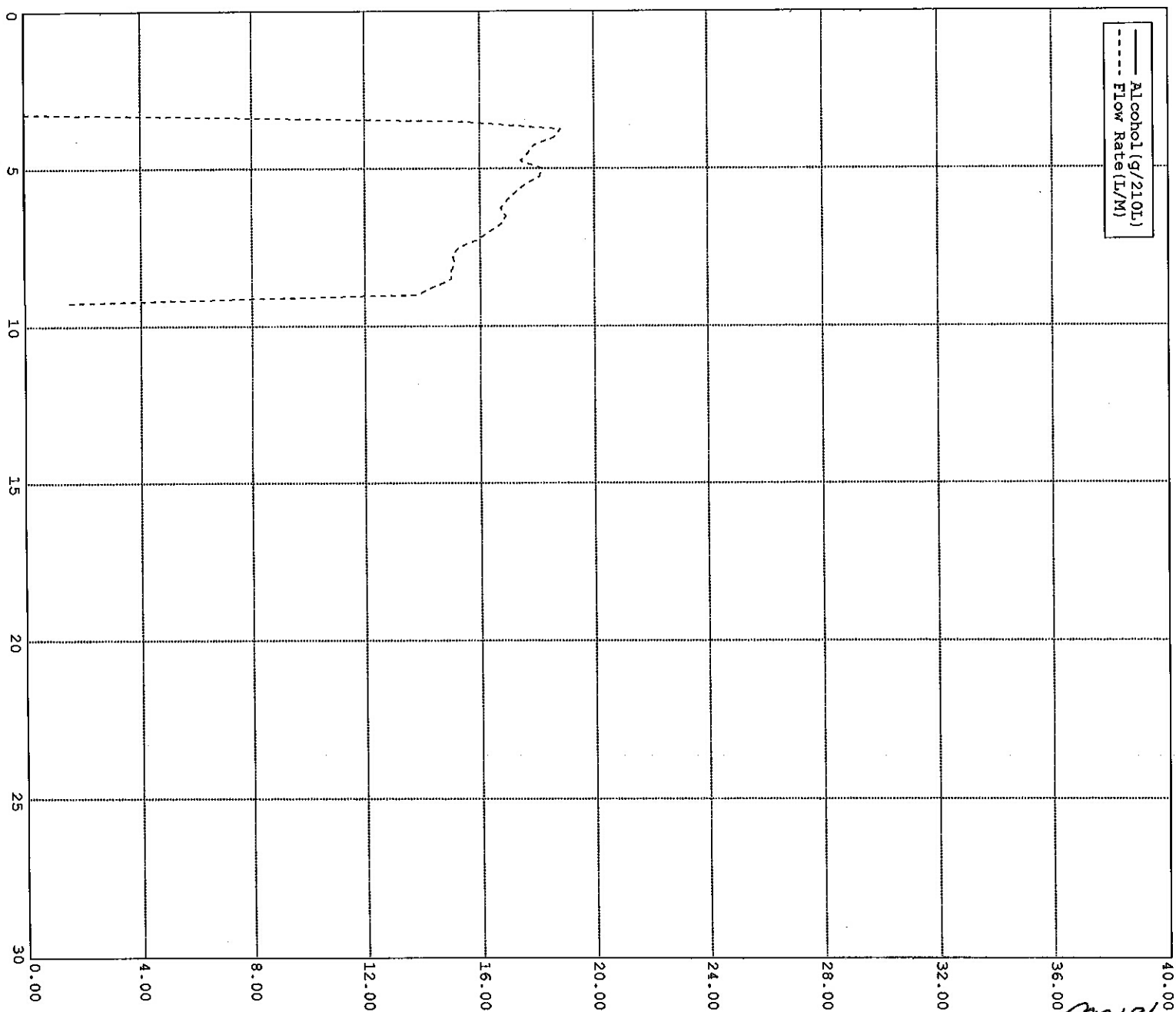


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100404Date: 05/15/2012
Time: 07:25:41SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKINGOPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237DEPT/AGENCY:
AAAI
CASE/REPORT: 12-1234
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.16: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

	PASSED	07:28
DIAGNOSTIC CHECK	0.000	07:28
BLANK TEST	0.000	07:28
INTERNAL STANDARD	0.079	07:29
EXTERNAL STANDARD	0.000	07:30
BLANK TEST	0.000	07:30
SUBJECT SAMPLE	0.000	07:30
BLANK TEST	0.000	07:31
EXTERNAL STANDARD	0.079	07:31
BLANK TEST	0.000	07:32

COR



COR 19.0

Final page for report

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7/9/2014