

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form - DMCEF2011R1		
	Issuing Authority - Nita Bolz, Scientific Director		
Approval date: 03/10/11		Effective date: 03/10/11	Archive date: Active

DataMaster DMT Certification Form

Instrument # 100361Analyst Colleen O'BryantDate 5/3/11

1. Diagnostic Test (attached)

2. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp

ii. Bias

iii. Cooler

iv. Chopper Frequency

b. Set RFI ☒c. Adjust barometer reading, if needed ☒d. Adjust volume setting, if needed ☒

e. Print Technician Screen (attached)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1700 mL ☒

5. Dry Gas Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 02811020A1 Exp 2/1/13ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 2/1/13iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 2/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 07611300A2 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf GAH Lot 9340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 10/18/10 SN DR 6267ii. Isopropanol - Mnf GAH Lot 9340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 8/4/10 SN SDA02d. RFI ☒7. Calibrate Stylus ☒8. Verify card reader is functional ☒9. Upload ☒10. Reset Options ☒

11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/03/2011
Time: 12:15:40

VERSIONS

DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 44.8°C	PASSED

PUMP INFO

Flow Rate = 4.572 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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CAB 2/18

Technician Screen

DATAMASTER dmt: 100361

Date: 05/03/2011

Time: 12:19 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 44.2°C

Current Barometer 29.8 in

Volume (Ltr) 1.43

Settings

Lamp: 1.99 V

Bias: 80 V

Cooler: 1.71 V

Chopper: 541 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.049 V

CAB 3/18

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100361

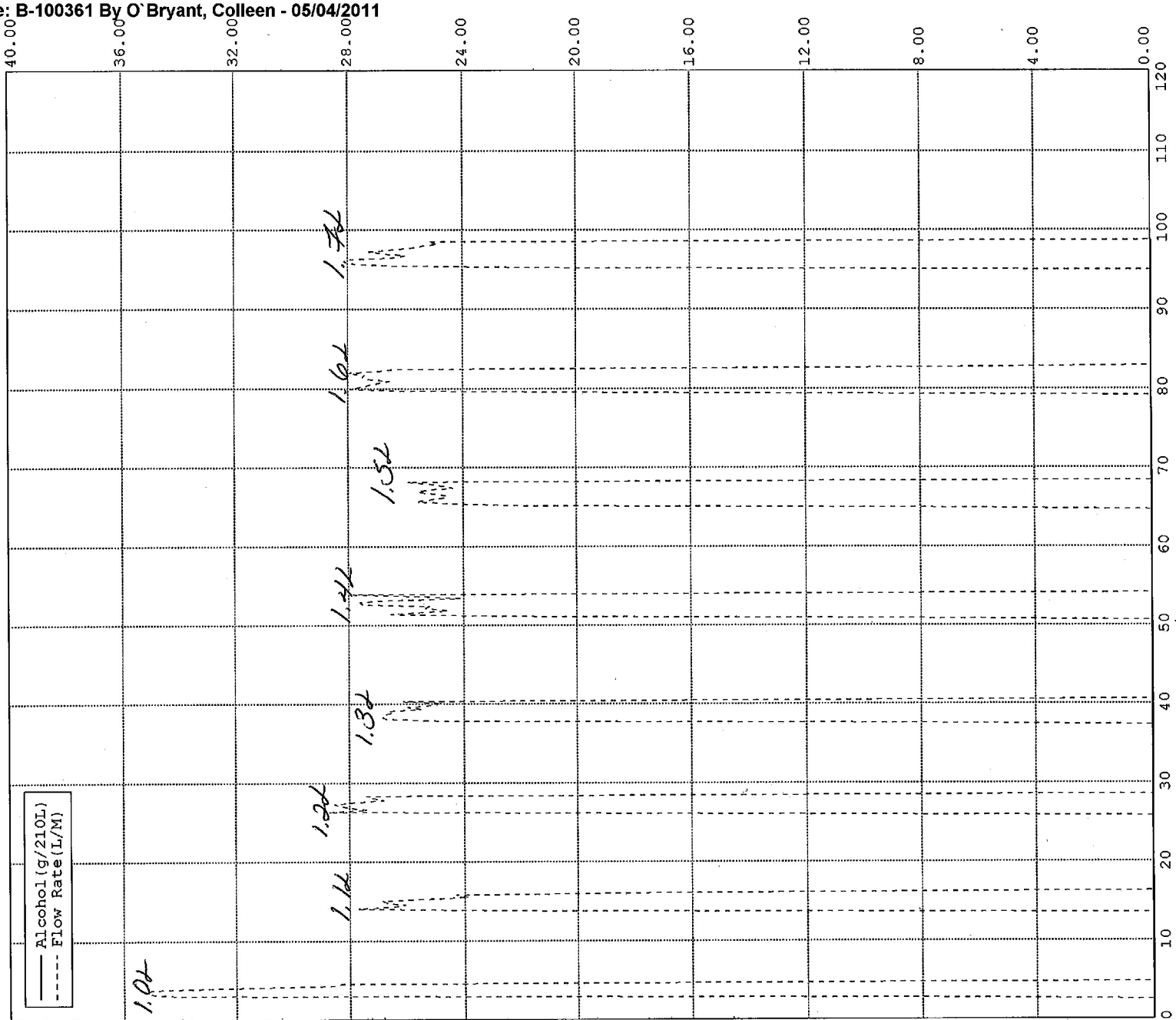
Date: 05/02/2011
Time: 14:04:52

SUPERVISOR NAME:
COLLEEN OBRYANT
CERTIFICATE #: 6237

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

Ca	=	0.1000		
CAL	=	0.999924	0.800	<= CAL < 1.200
b1	=	0.0008	0.0000	<= b1 < 0.0040
b2	=	0.0055	0.0010	<= b2 < 0.0100
b3	=	0.0005	0.0000	<= b3 < 0.0040
Xq	=	0.0749	0.0500	<= Xq < 0.2000
a21	=	1.193542	1.050	<= a21 < 1.300
a31	=	0.505376	0.300	<= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/03/2011
Time: 12:30:17

SUBJECT NAME:

TEST TEST
LICENSE #: VOLUME TEST

OPERATOR NAME:

COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.77: 0.079

LOT #: 02511080A3

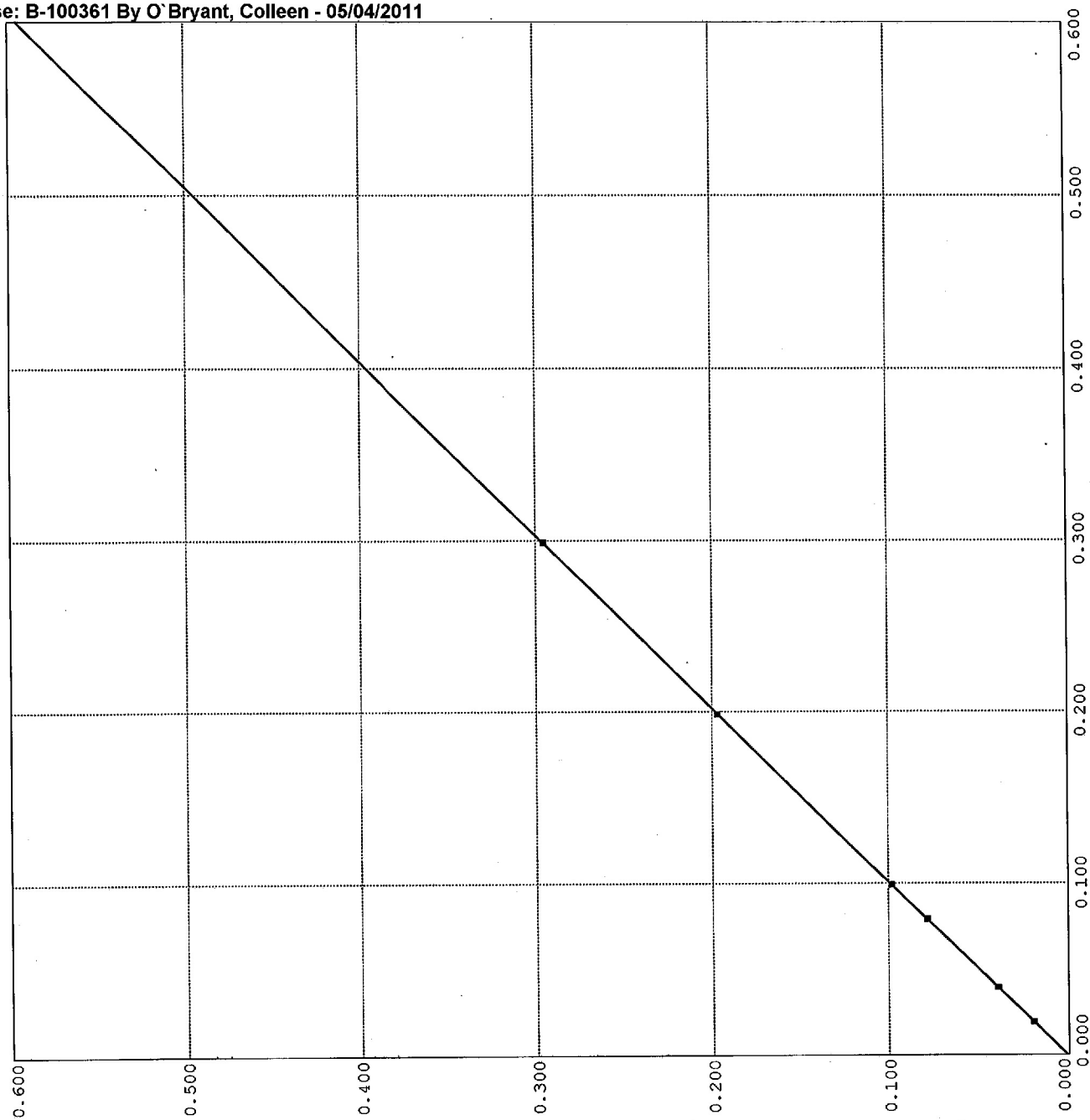
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

BLANK TEST	PASSED	12:31
INTERNAL STANDARD	0.000	12:31
EXTERNAL STANDARD	0.080	12:31
BLANK TEST	0.000	12:32
SUBJECT SAMPLE	0.000	12:34
BLANK TEST	0.000	12:35
EXTERNAL STANDARD	0.080	12:35
BLANK TEST	0.000	12:36

CB

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LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 05/03/2011
 Time: 12:43:12

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

TARGET	AVERAGE	STD. DEV.
0.019	0.020	0.0004
0.039	0.039	0.0004
0.079	0.079	0.0004
0.099	0.099	0.0000
0.198	0.197	0.0009
0.298	0.296	0.0019

SLOPE = 0.990362
 R² = 0.999998

CS

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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100361

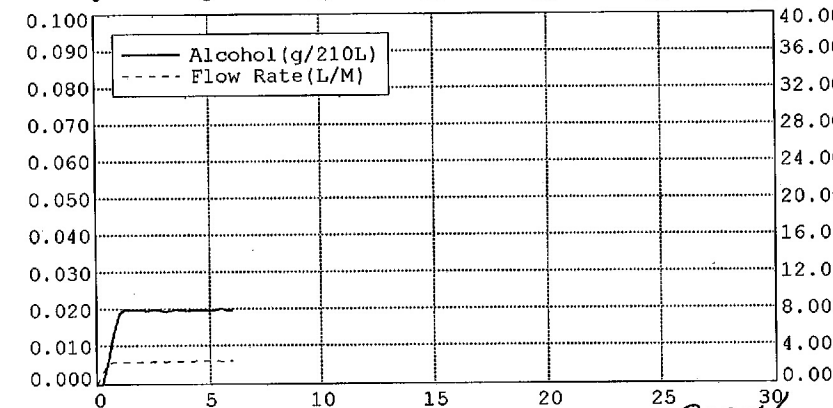
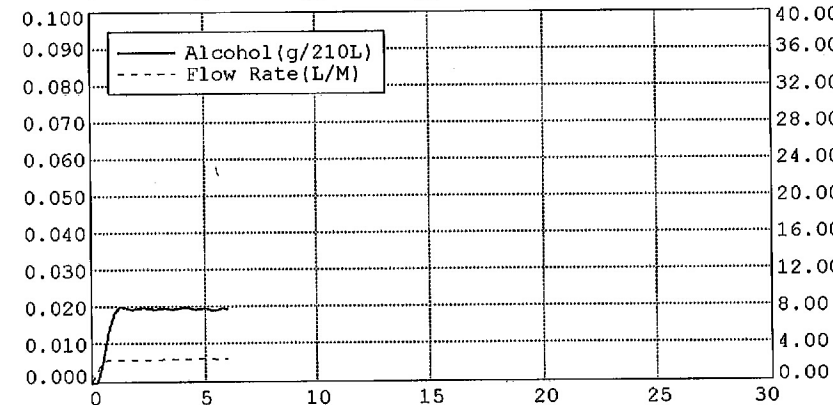
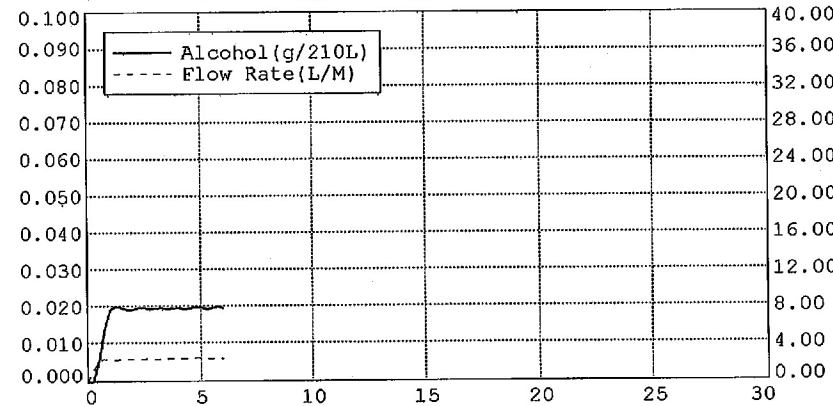
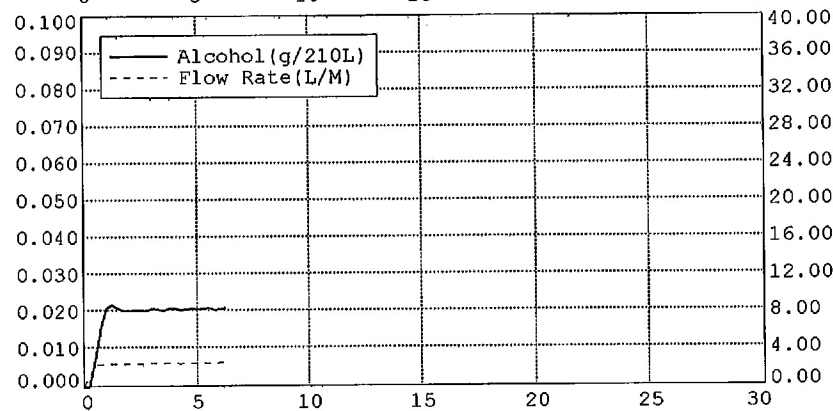
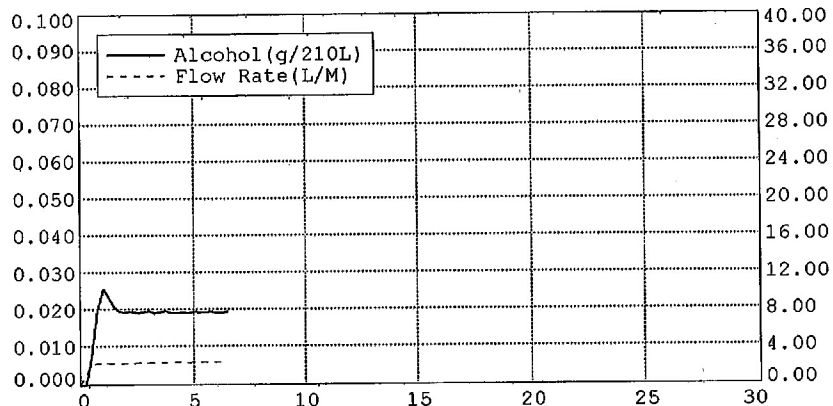
Date: 05/03/2011
Time: 12:43:14

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.77: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:44
INTERNAL STANDARD	VERIFIED	12:44
EXTERNAL STANDARD	0.020	12:44
BLANK TEST	0.000	12:45
EXTERNAL STANDARD	0.021	12:46
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.020	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.020	12:48
BLANK TEST	0.000	12:49
EXTERNAL STANDARD	0.020	12:49
BLANK TEST	0.000	12:50

Average = 0.0202
Std Dev = 0.0004



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LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100361

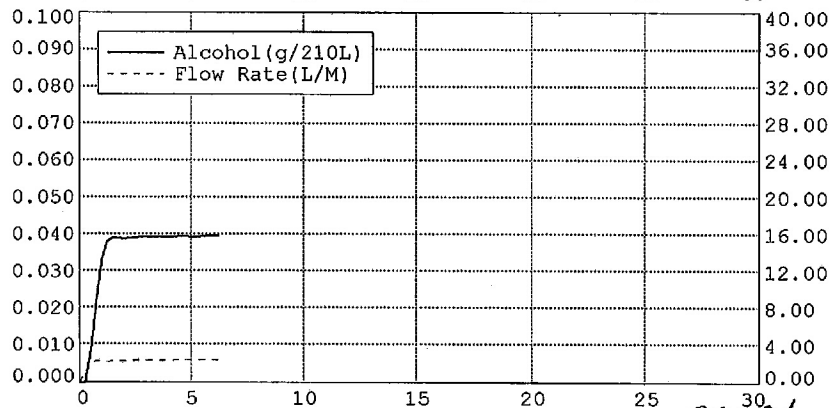
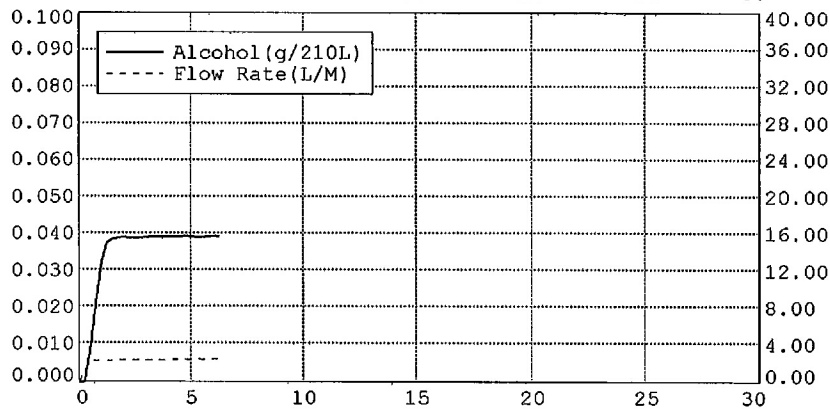
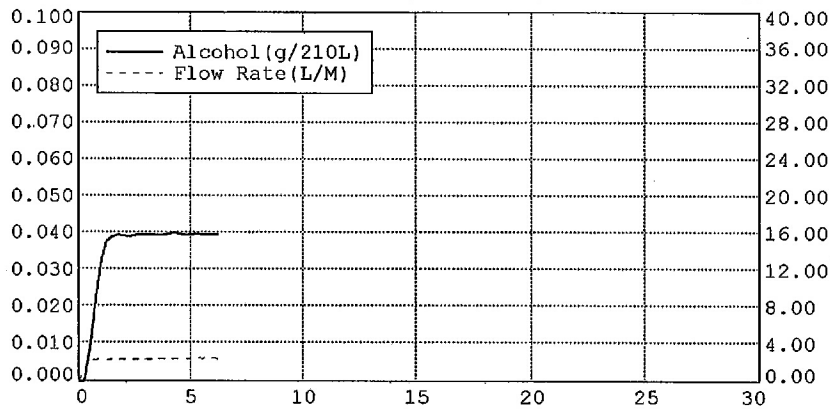
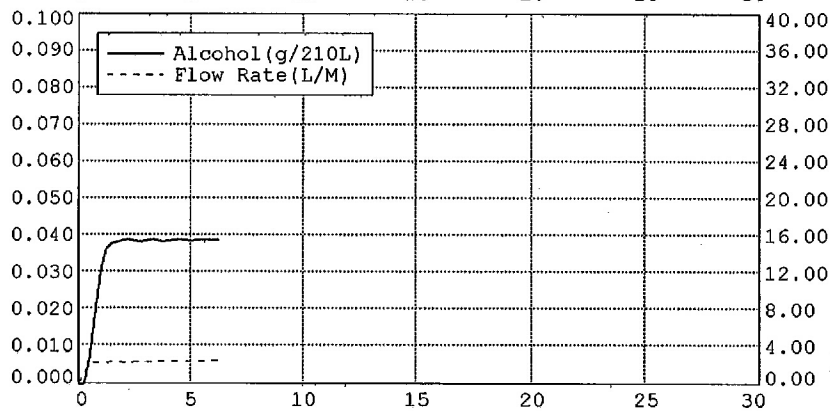
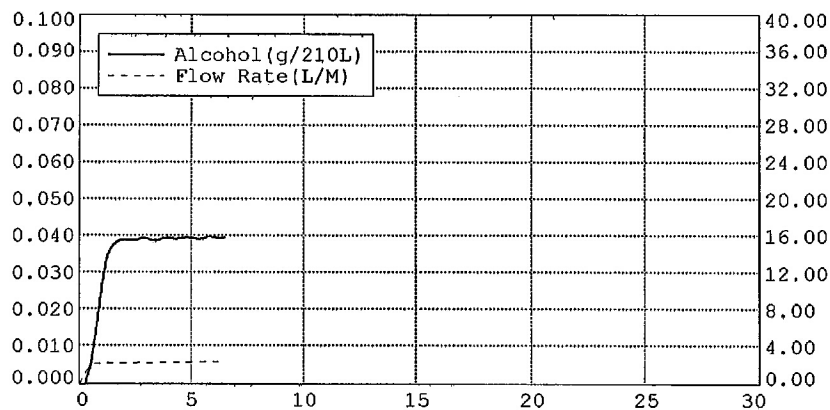
Date: 05/03/2011
Time: 12:52:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.76: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:53
INTERNAL STANDARD	VERIFIED	12:53
EXTERNAL STANDARD	0.040	12:53
BLANK TEST	0.000	12:54
EXTERNAL STANDARD	0.039	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.040	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.040	12:57
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.040	12:58
BLANK TEST	0.000	12:59

Average = 0.0398
Std Dev = 0.0004



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Alaska Department of Public Safety
DATAMASTER dmt: 100361

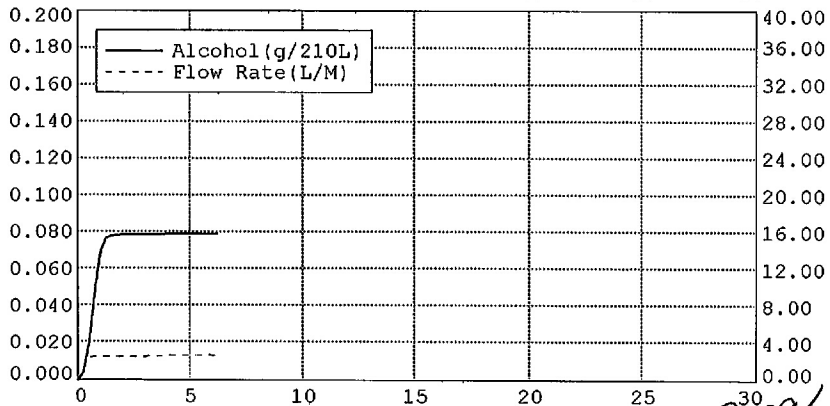
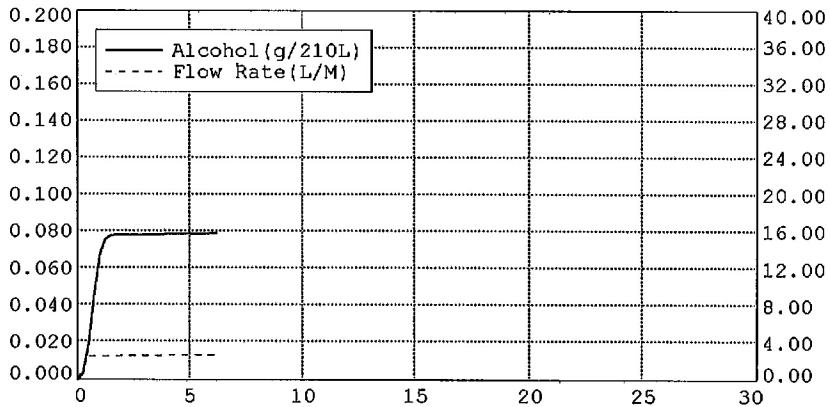
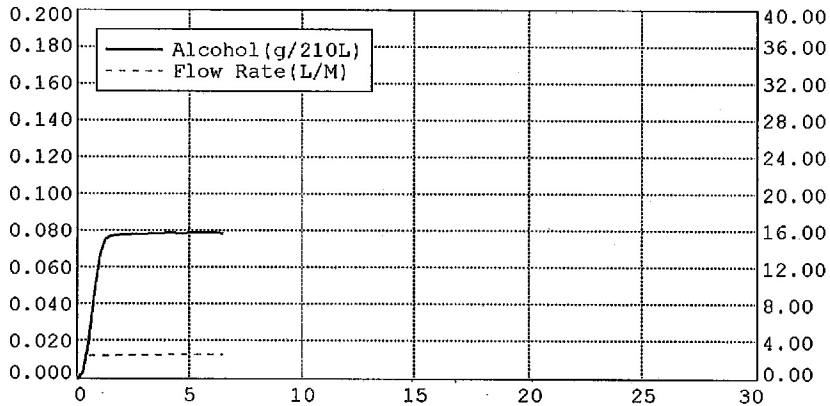
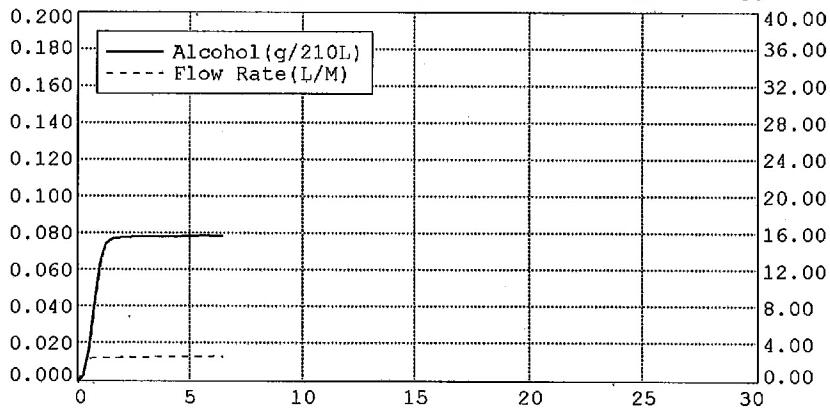
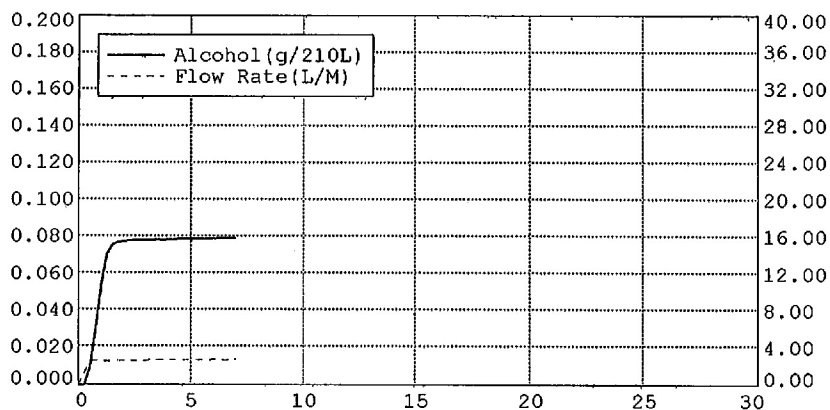
Date: 05/03/2011
Time: 12:59:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:00
INTERNAL STANDARD	VERIFIED	13:01
EXTERNAL STANDARD	0.079	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.079	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.079	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.079	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.080	13:05
BLANK TEST	0.000	13:06

Average = 0.0792
Std Dev = 0.0004



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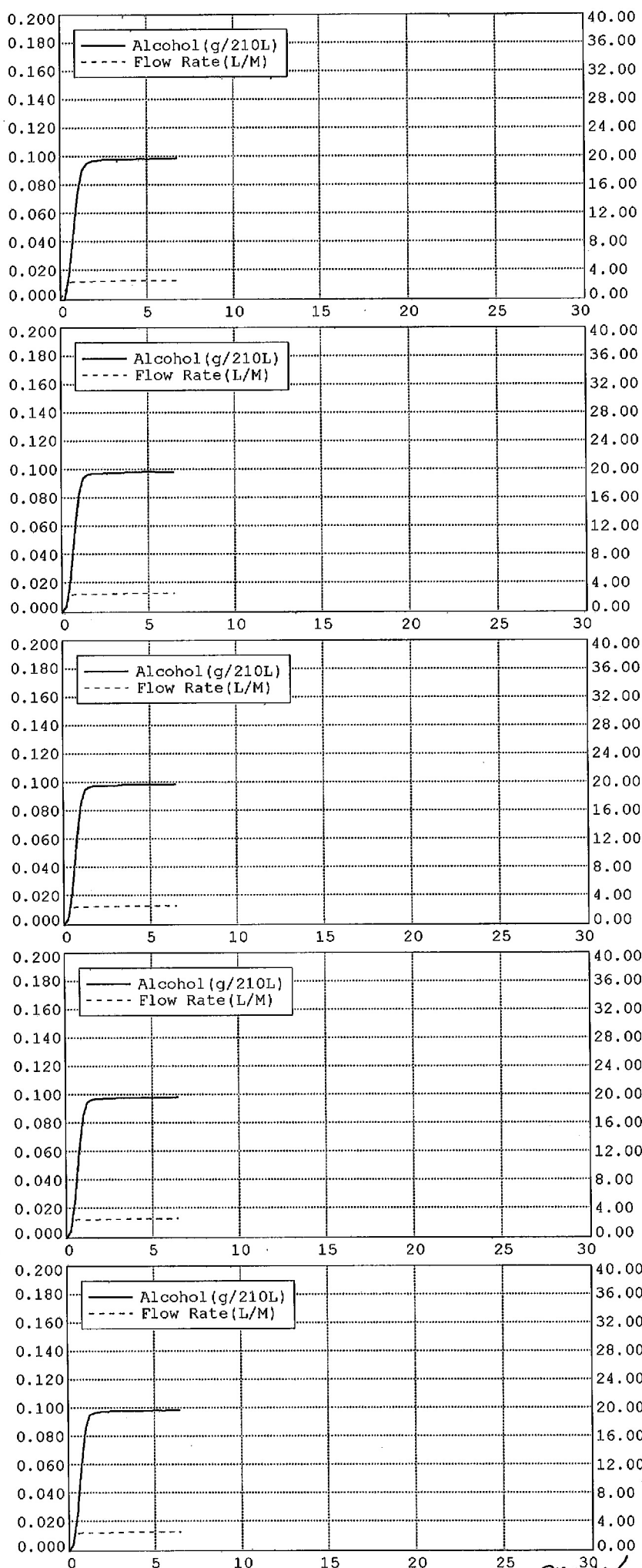
Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/03/2011
Time: 13:07:18

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.76: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:08
INTERNAL STANDARD	VERIFIED	13:08
EXTERNAL STANDARD	0.099	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.099	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.099	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.099	13:12
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.099	13:13
BLANK TEST	0.000	13:14

Average = 0.0990
Std Dev = 0.0000



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LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/03/2011
Time: 13:15:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

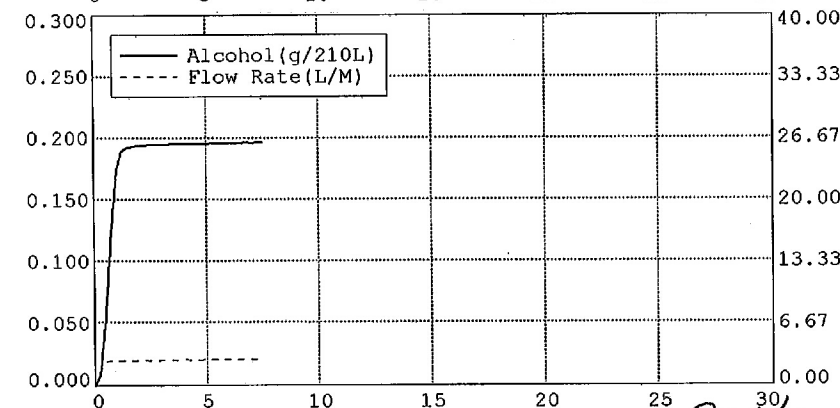
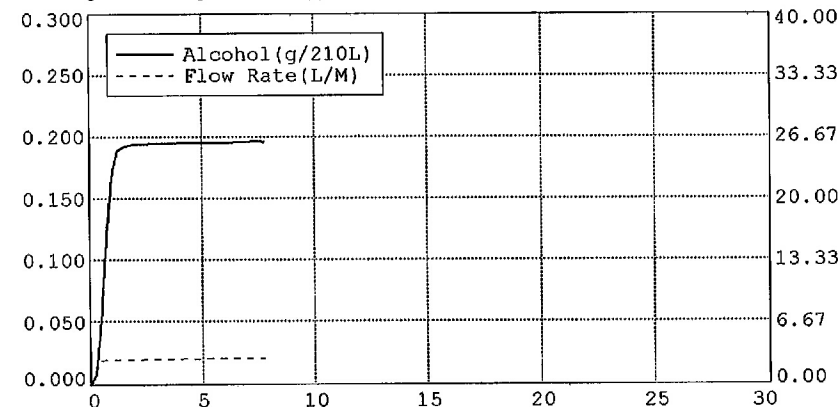
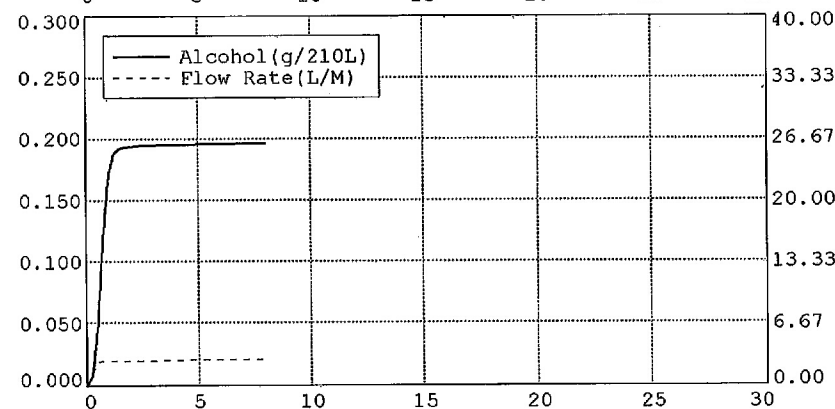
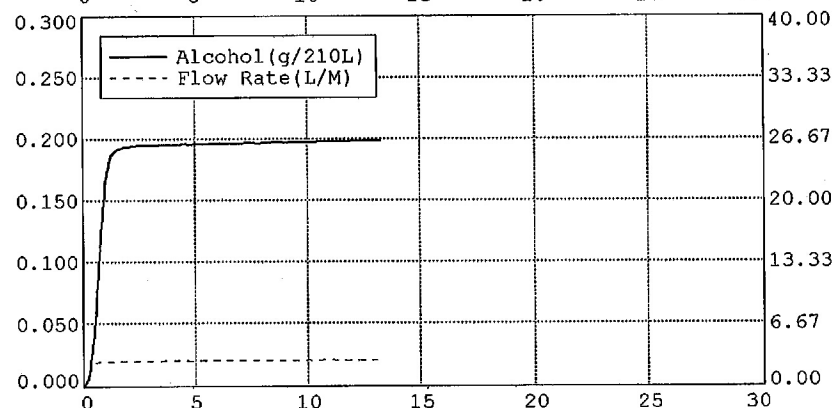
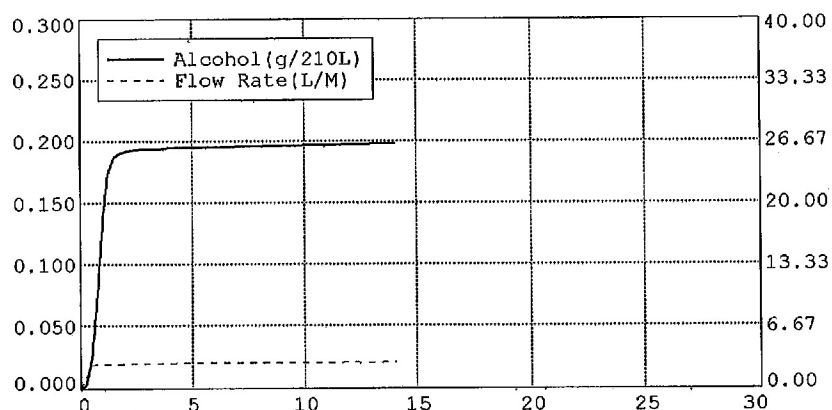
TARGET AT 29.76: 0.198

LOT #: 07411200A2 ~~0034/11~~ 07611200A2

EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:16
INTERNAL STANDARD	VERIFIED	13:16
EXTERNAL STANDARD	0.198	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.199	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.197	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.197	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.197	13:21
BLANK TEST	0.000	13:22

Average = 0.1976
Std Dev = 0.0009



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LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100361

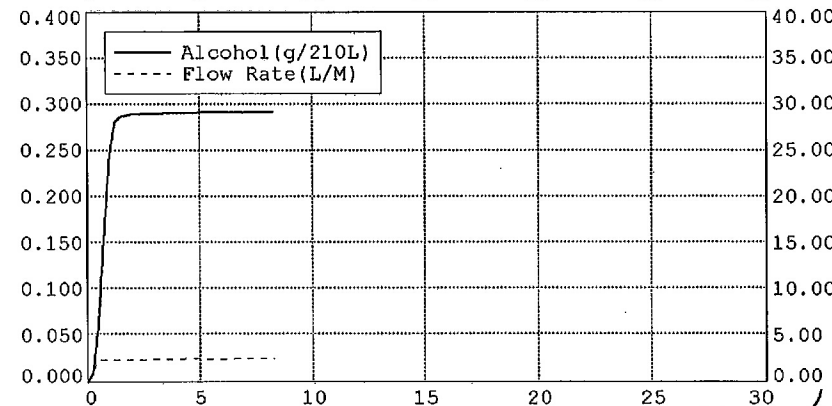
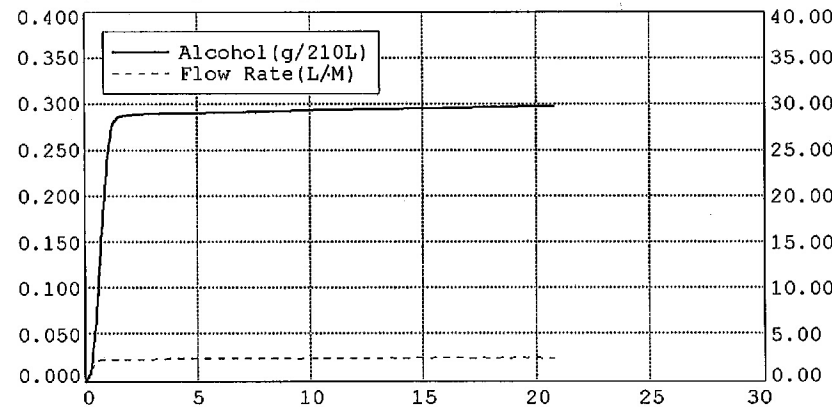
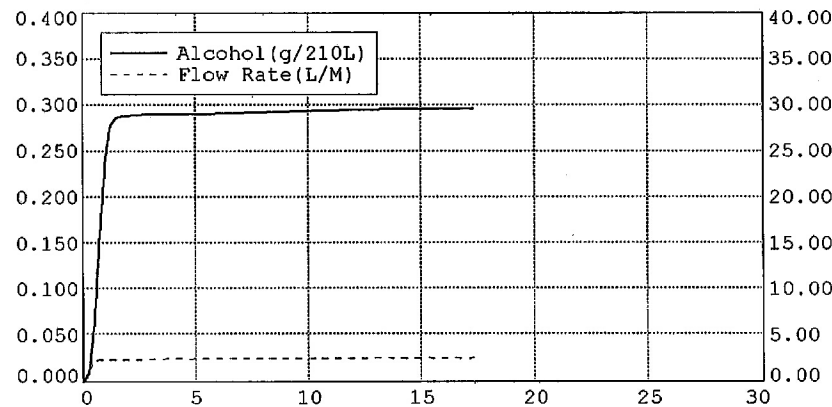
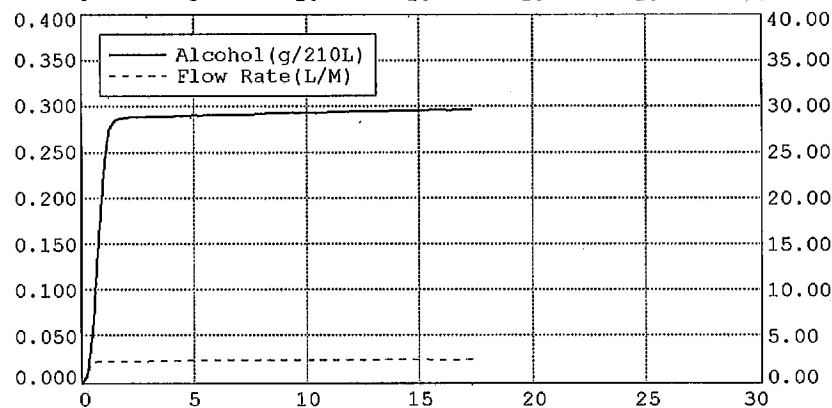
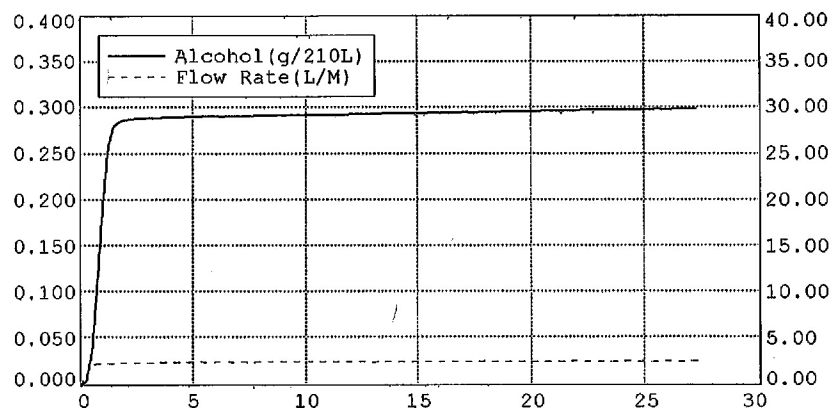
Date: 05/03/2011
Time: 13:23:43

EXTERNAL STANDARD INFORMATION

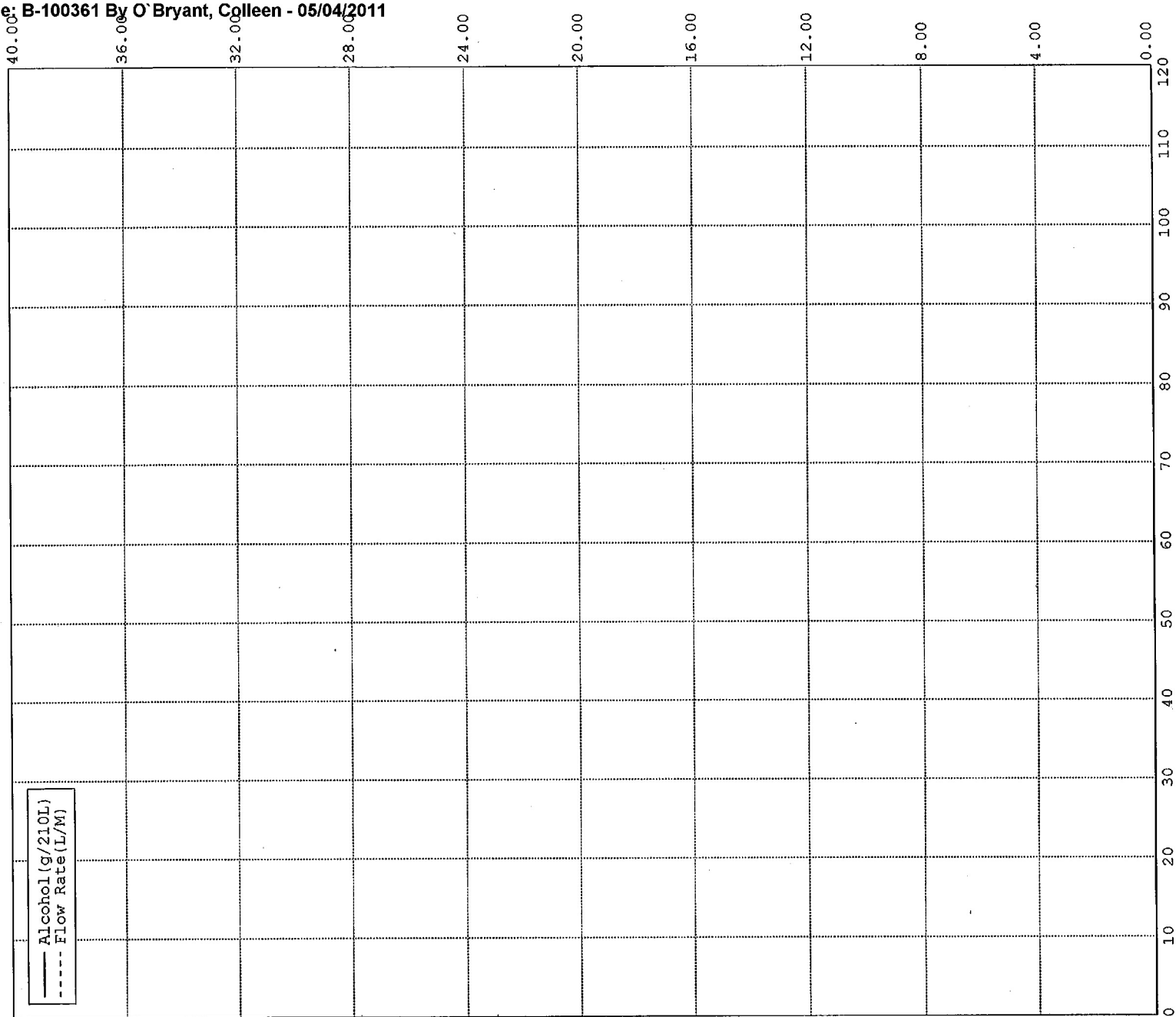
NOMINAL: 0.300
TARGET AT 29.77: 0.298
LOT #: 07611300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:24
EXTERNAL STANDARD	0.298	13:25
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.296	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.297	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.297	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.293	13:31
BLANK TEST	0.000	13:32

Average = 0.2962
Std Dev = 0.0019



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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/03/2011
Time: 13:57:28

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAAL

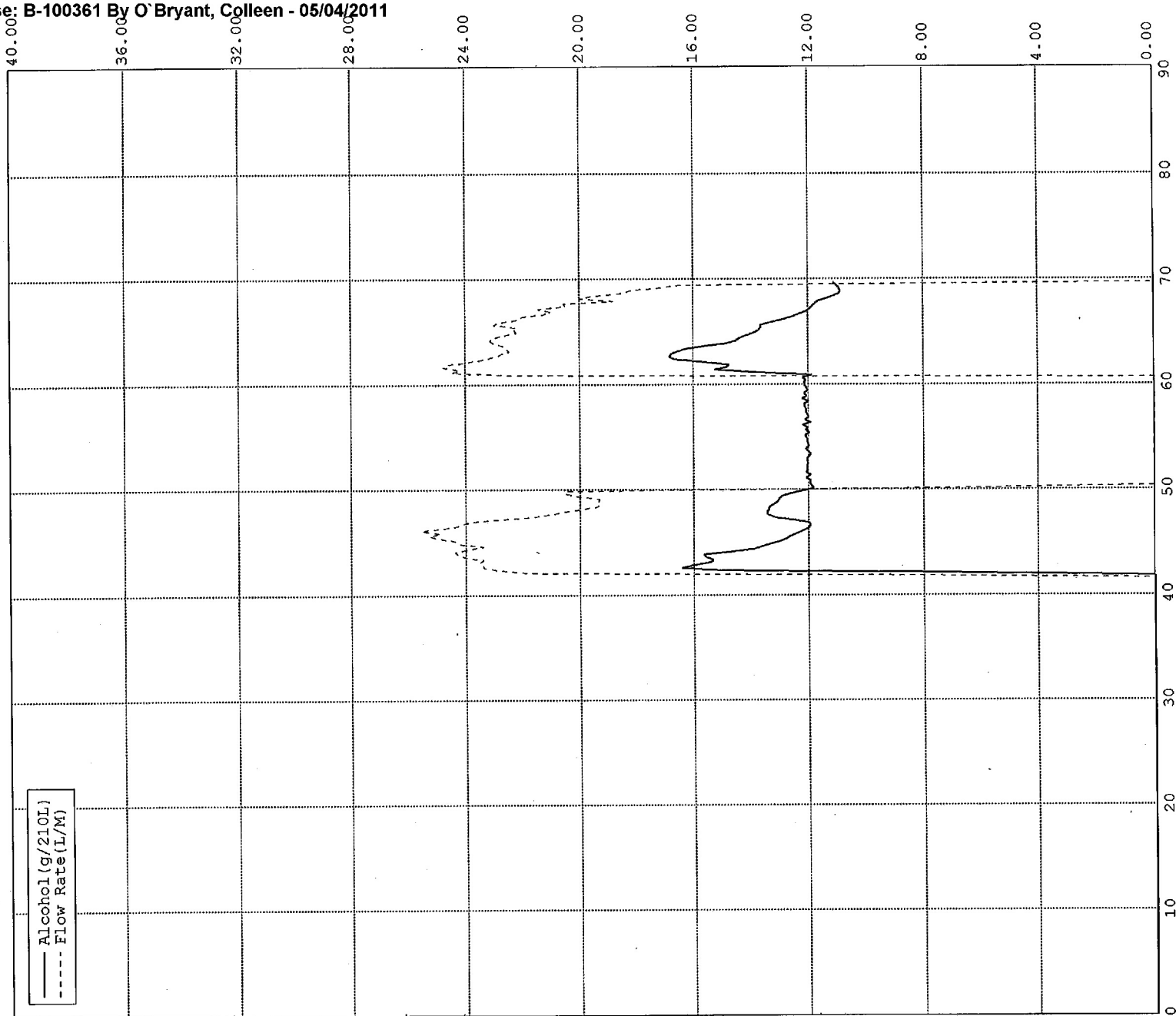
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:58
BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.080	13:59
BLANK TEST	0.000	14:00
SUBJECT SAMPLE	INCOMPLETE	14:02

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SUBJECT TEST

Alaska Department of Public Safety
DATAWASTER dmt: 100361

Date: 05/03/2011
Time: 13:38:55

SUBJECT NAME:

TEST TEST

LICENSE #: INVALID

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.76: 0.079

LOT #: 02511080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

PASSED 13:39

0.000 13:40

VERIFIED 13:40

0.080 13:40

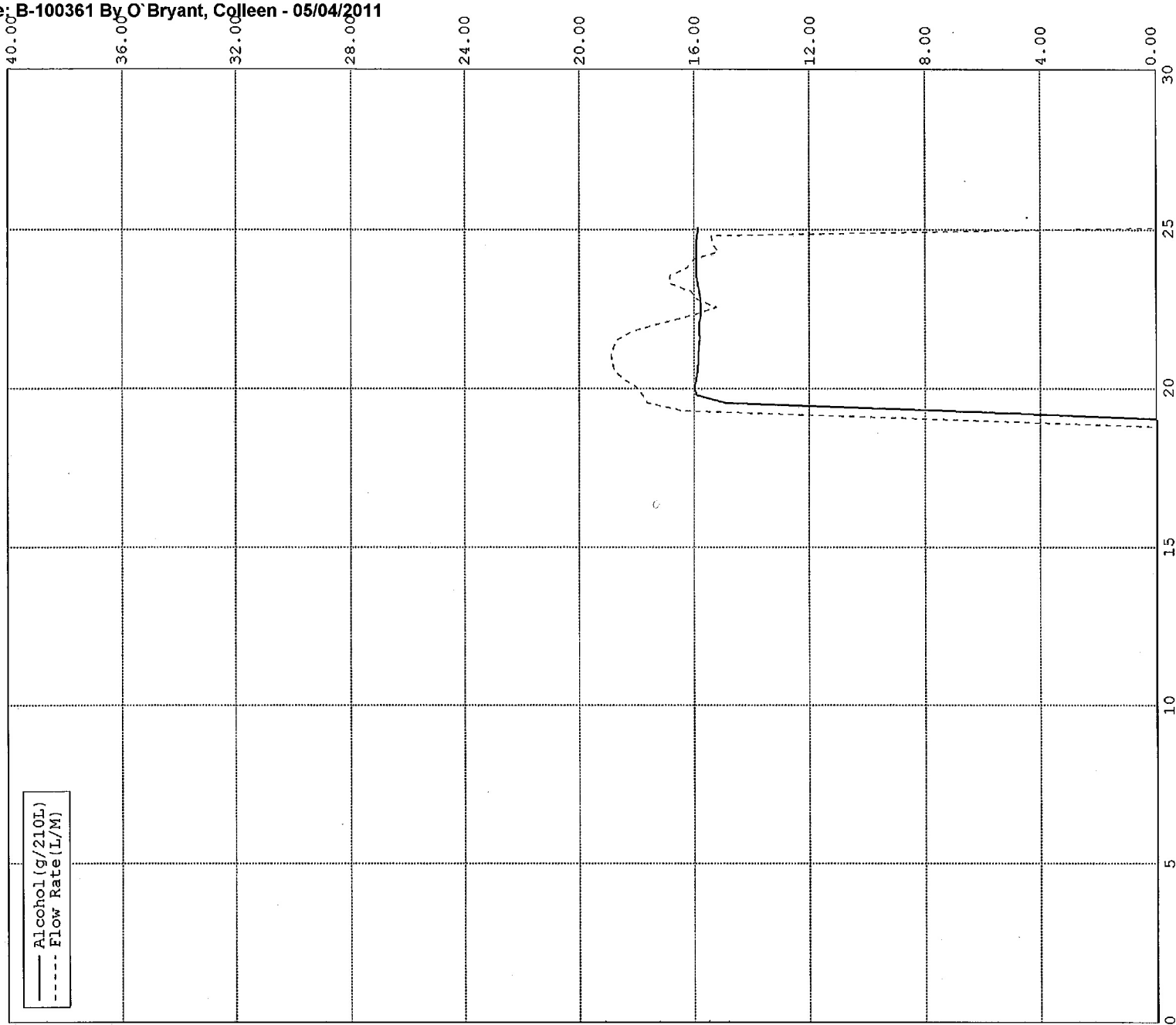
0.000 13:41

Invalid 13:42

SUBJECT SAMPLE

CB

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SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100361

Date: 05/03/2011

Time: 13:47:38

SUBJECT NAME:

TEST TEST

LICENSE #: INTF-ACTN

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAAI

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.77: 0.079

LOT #: 02511080A3

EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK

PASSED 13:48

BLANK TEST

0.000 13:48

INTERNAL STANDARD

VERIFIED 13:48

EXTERNAL STANDARD

0.080 13:49

BLANK TEST

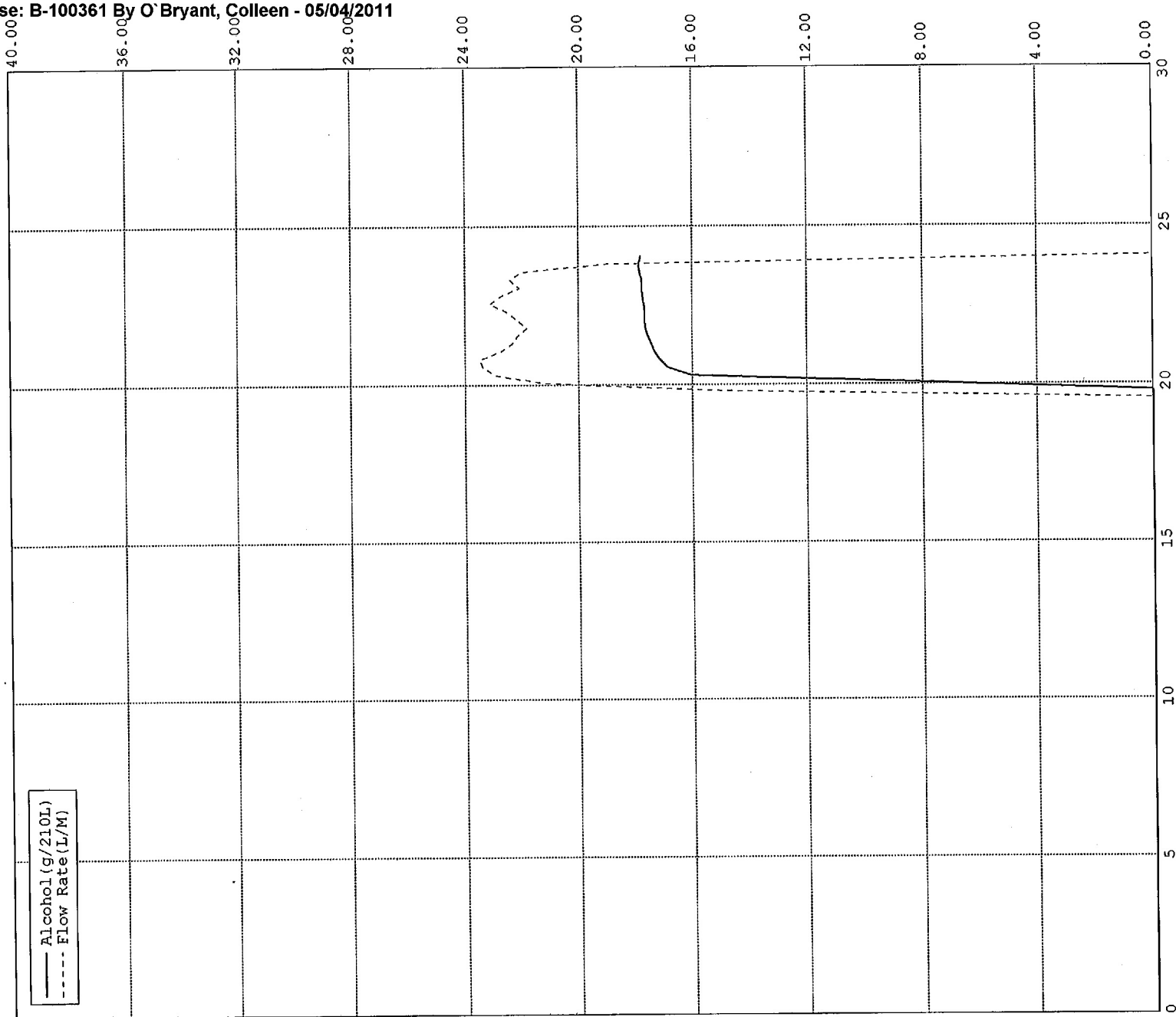
0.000 13:50

SUBJECT SAMPLE

INTERFERENCE 13:50

CB

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/03/2011
Time: 13:52:33

SUBJECT NAME:
TEST TEST
LICENSE #: INTF-ISO

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

DEPT/AGENCY:
AAA1

CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.77: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:53
BLANK TEST	0.000	13:53
INTERNAL STANDARD	VERIFIED	13:53
EXTERNAL STANDARD	0.080	13:54
BLANK TEST	0.000	13:55
SUBJECT SAMPLE	INTERFERENCE	13:55

CB

CB 6/12

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100361

Date: 05/03/2011
Time: 14:04:26

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

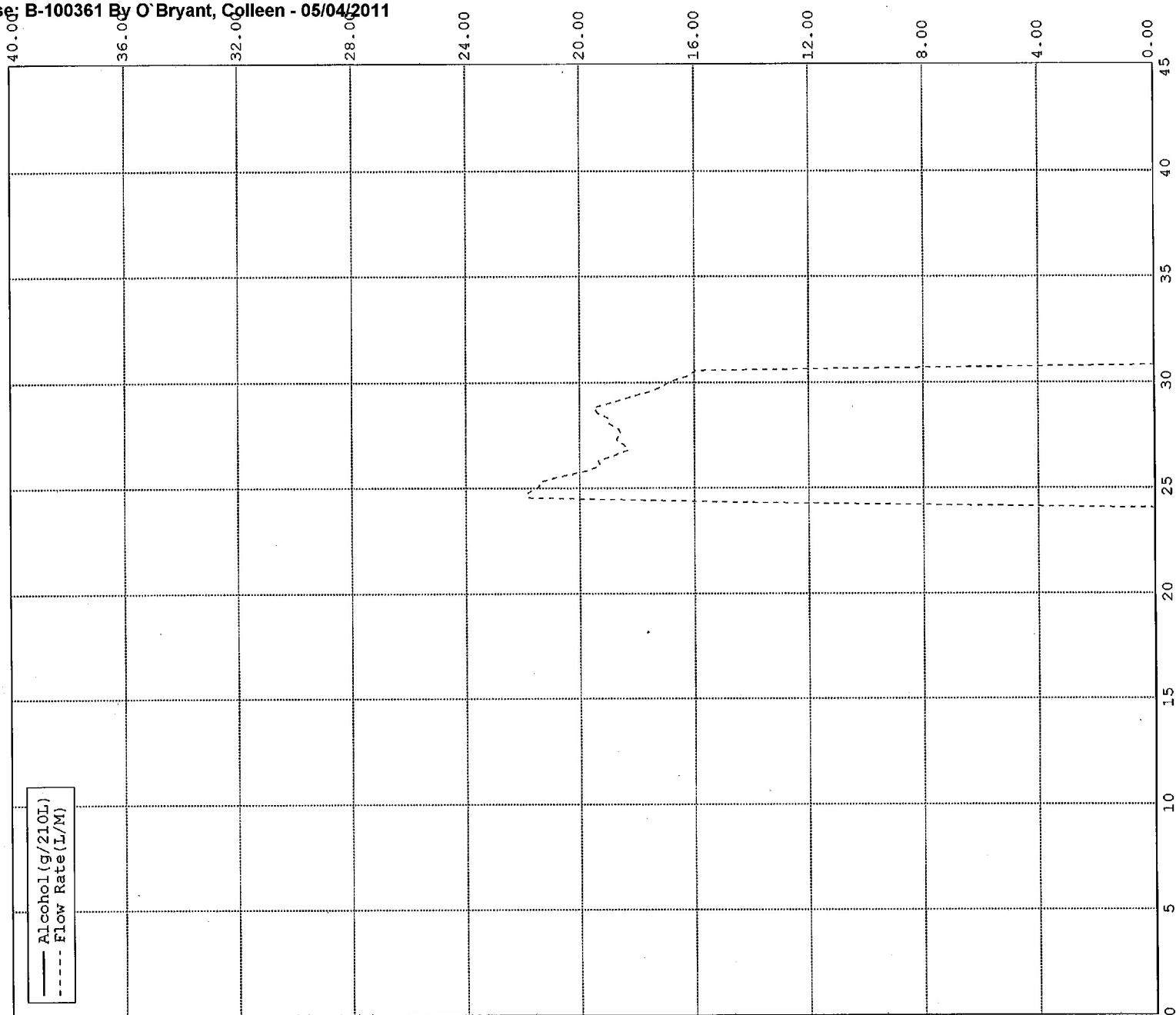
OPERATOR NAME:
COLLEEN S OBRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

RFI Detected

05/14/11



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100361

Date: 05/03/2011
 Time: 14:20:32

SUBJECT NAME:
 TEST TEST
 LICENSE #: NON-DRINKING

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 11-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.77: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:21
BLANK TEST	0.000	14:21
INTERNAL STANDARD	VERIFIED	14:21
EXTERNAL STANDARD	0.079	14:21
BLANK TEST	0.000	14:22
SUBJECT SAMPLE	0.000	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.080	14:24
BLANK TEST	0.000	14:25

CB

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