

	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 # 100363Analyst C. O'BryantDate 3/15/11

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 1300 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 23609080A1 Exp 5/1/12iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13v. 0.200g/210L Mnf ILMO Lot 05611200A3 Exp 3/1/13vi. 0.300g/210L Mnf ILMO Lot 05611300A4 Exp 3/1/13

6. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 9340 Level 0.080 Exp 12/2/111. Simulator Calibration Date 10/18/10 SN DR 6267ii. Isopropanol - Mnf Guth Lot 9340 Level 0.080 Exp 2/2/111. Simulator Calibration Date 8/4/10 SN SD 1202d. 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: 100363

Date: 03/15/2011
Time: 08:19:28

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
Breath Tube = 46.1°C	PASSED

PUMP INFO

Flow Rate = 4,840 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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Technician Screen

DATAMASTER dmt: 100363

Date: 03/15/2011

Time: 2:51 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 43.5°C

Current Barometer 29.2 in

Volume (Ltr) 1.49

Settings

Lamp: 1.99 V

Bias: 80 V

Cooler: 1.69 V

Chopper: 532 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.531 V

CALIBRATION FACTORS

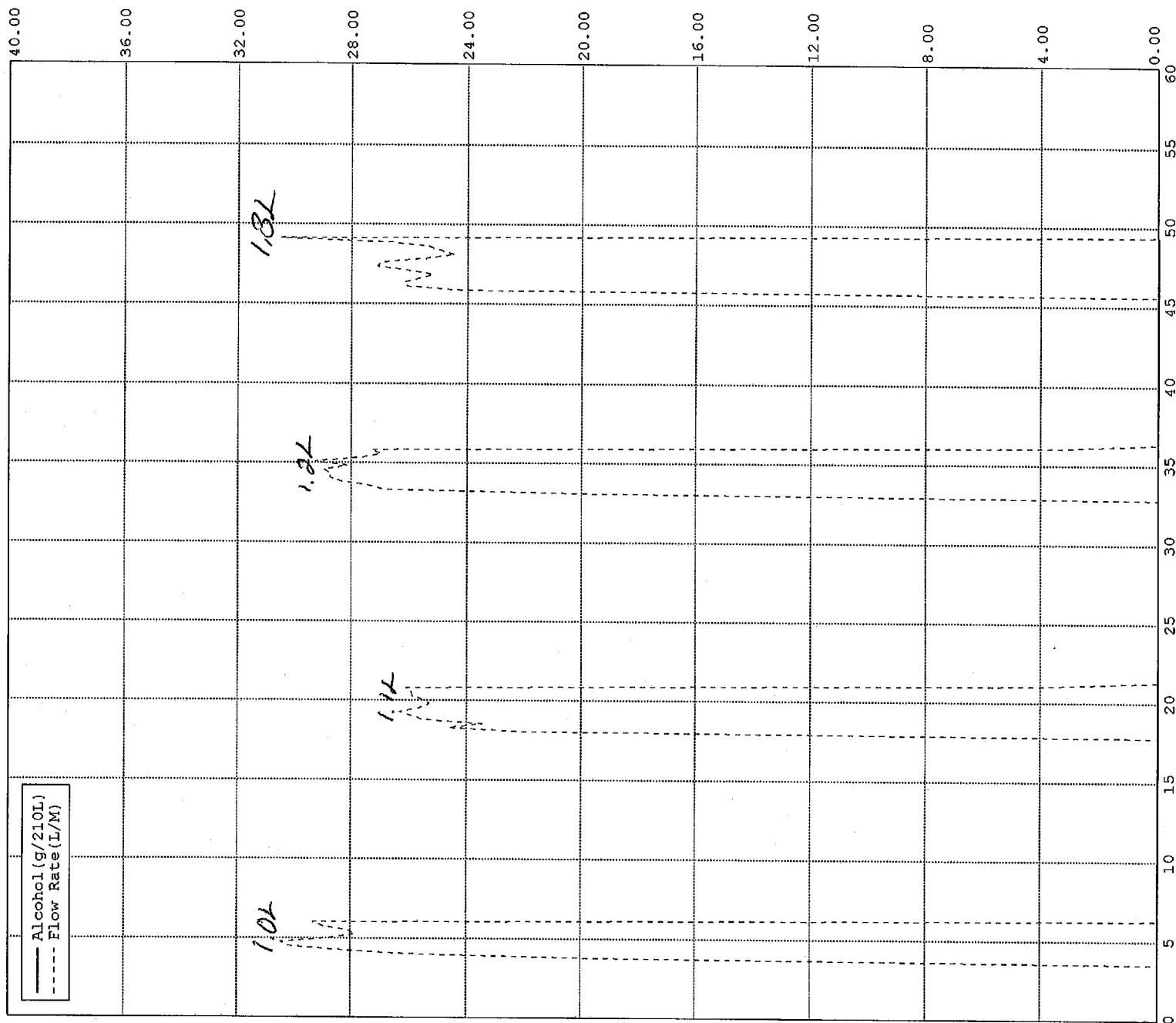
Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 03/15/2011
Time: 07:24:16

SUPERVISOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca = 0.1000
CAL = 0.963597 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0060 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0987 0.0500 <= Xq < 0.2000
a21 = 1.159537 1.050 <= a21 < 1.300
a31 = 0.443236 0.300 <= a31 < 0.800



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 03/15/2011
Time: 15:18:12

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

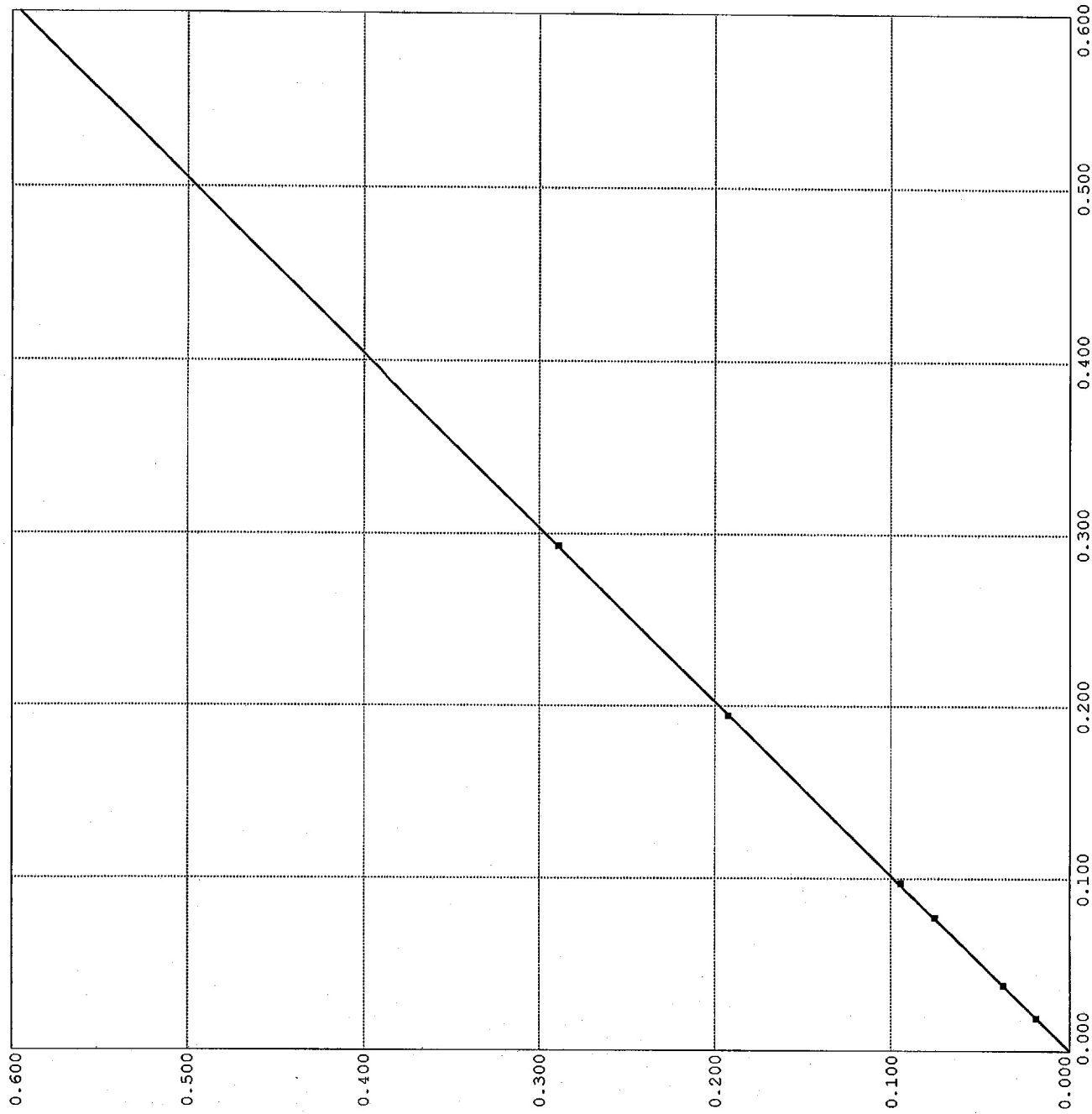
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.15: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

TEST	RESULT	TIME
BLANK TEST	PASSED	15:19
INTERNAL STANDARD	0.000	15:19
EXTERNAL STANDARD	VERIFIED	15:19
BLANK TEST	0.077	15:19
SUBJECT SAMPLE	0.000	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.000	15:22
BLANK TEST	0.076	15:22
BLANK TEST	0.000	15:23

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LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 03/16/2011
 Time: 10:23:12

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0194	0.0005
0.038	0.0380	0.0000
0.077	0.0762	0.0004
0.097	0.0952	0.0004
0.194	0.1936	0.0026
0.292	0.2896	0.0015

SLOPE = 0.992467
 R^2 = 0.999975

CB

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LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100363

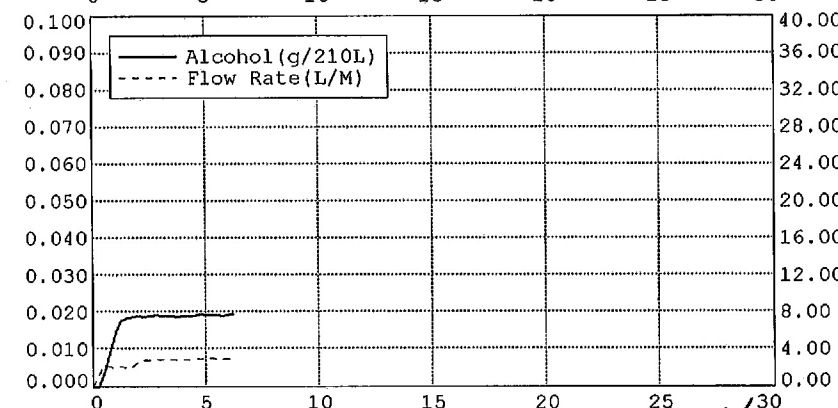
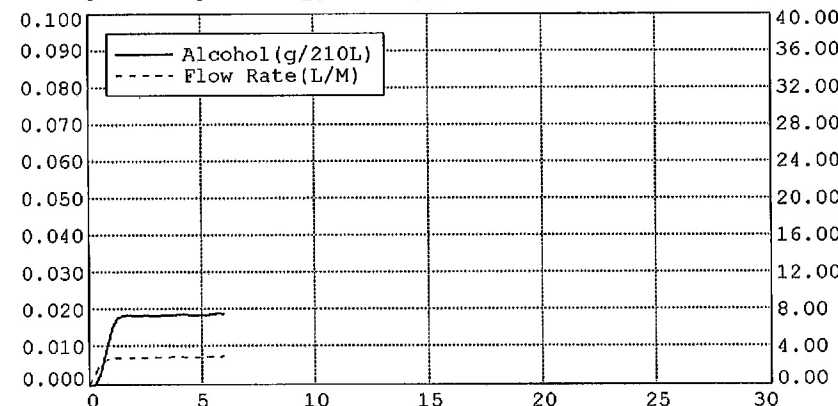
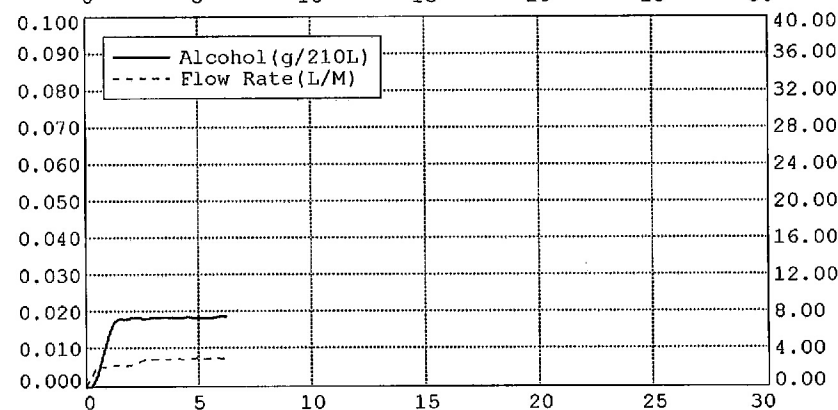
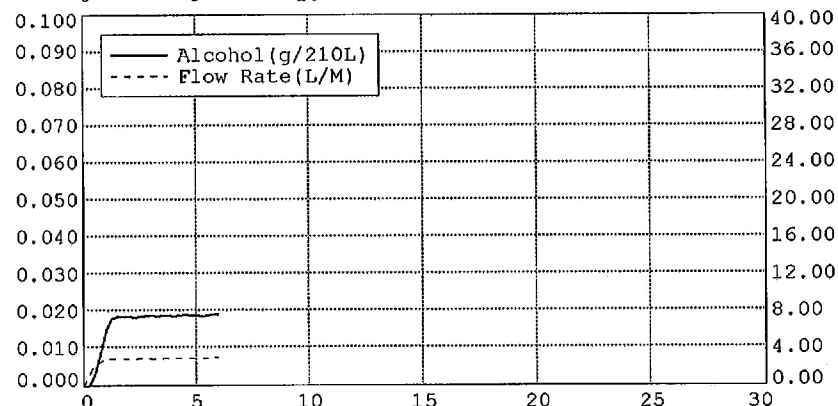
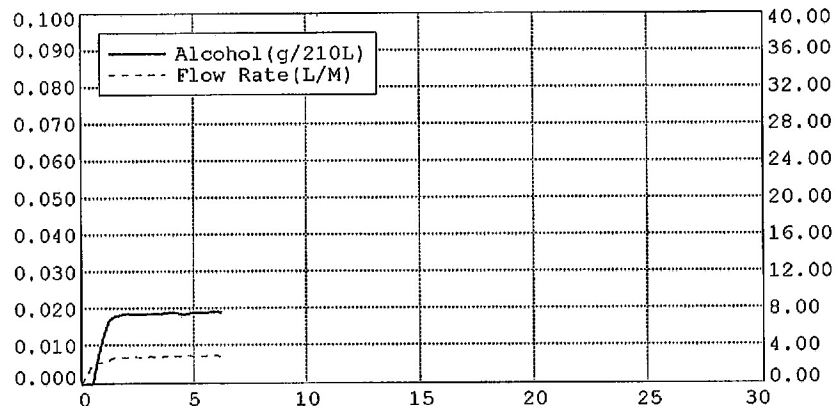
Date: 03/16/2011
Time: 10:23:13

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.14: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:25
INTERNAL STANDARD	VERIFIED	10:25
EXTERNAL STANDARD	0.020	10:25
BLANK TEST	0.000	10:26
EXTERNAL STANDARD	0.019	10:27
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.019	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.019	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.020	10:30
BLANK TEST	0.000	10:31

Average = 0.0194
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100363

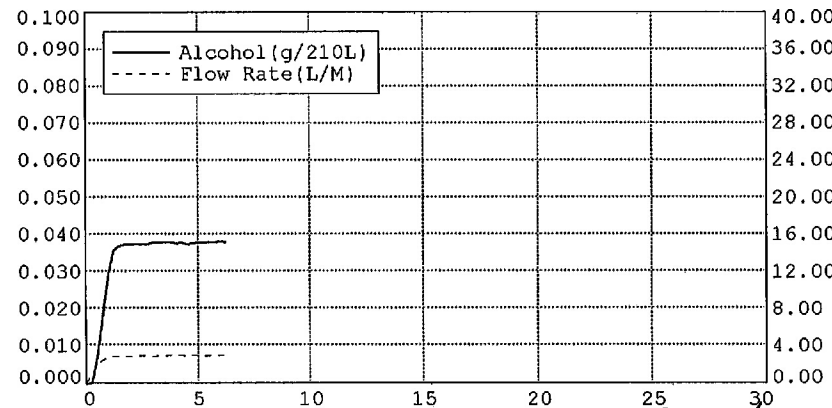
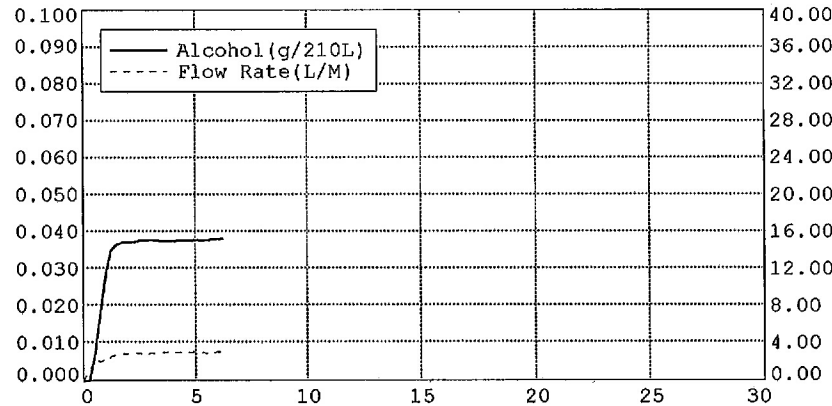
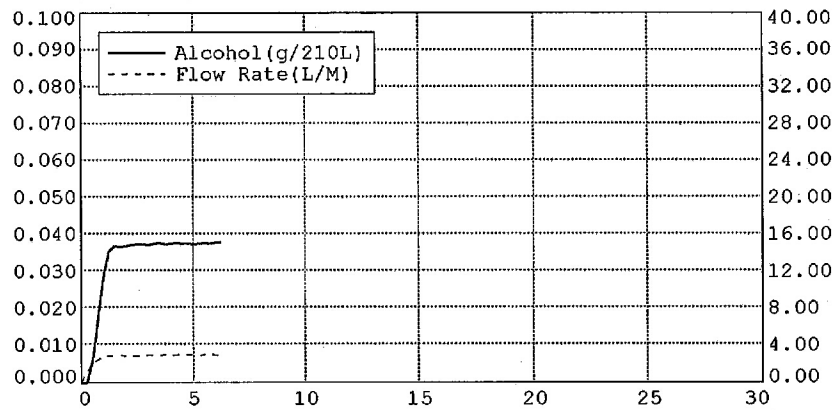
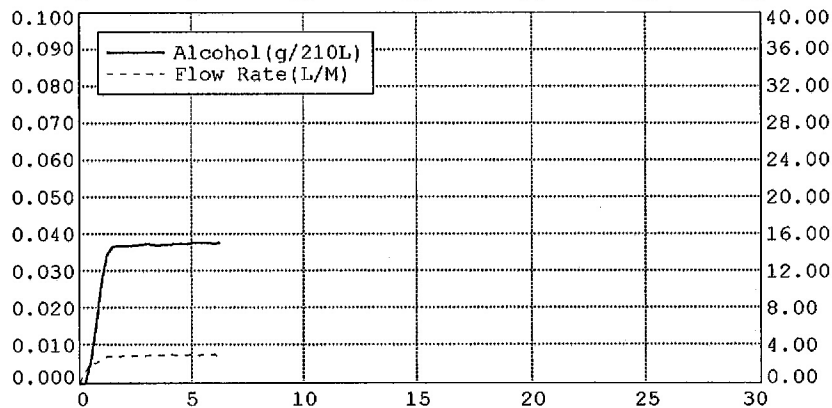
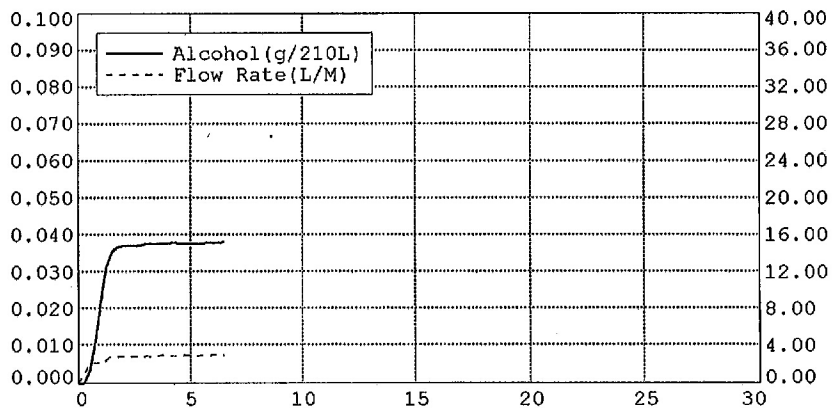
Date: 03/16/2011
Time: 10:36:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.14: 0.038
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.038	10:38
BLANK TEST	0.000	10:39
EXTERNAL STANDARD	0.038	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.038	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.038	10:41
BLANK TEST	0.000	10:42
EXTERNAL STANDARD	0.038	10:42
BLANK TEST	0.000	10:43

Average = 0.0380
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100363

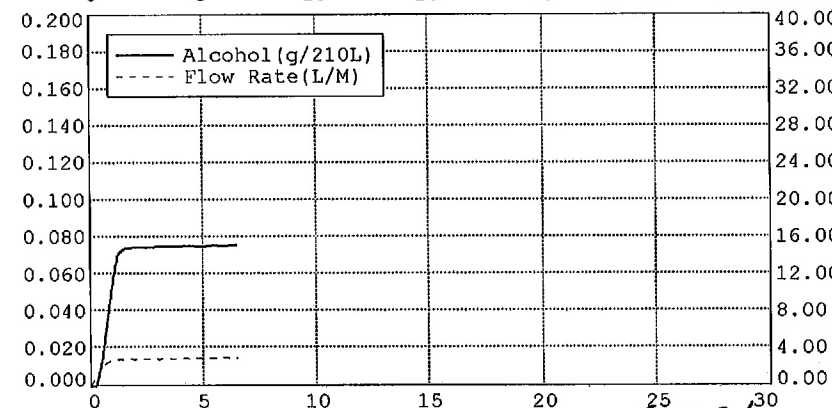
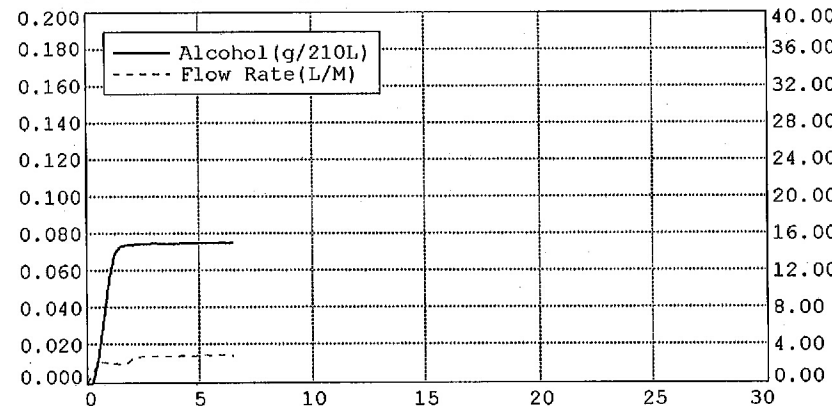
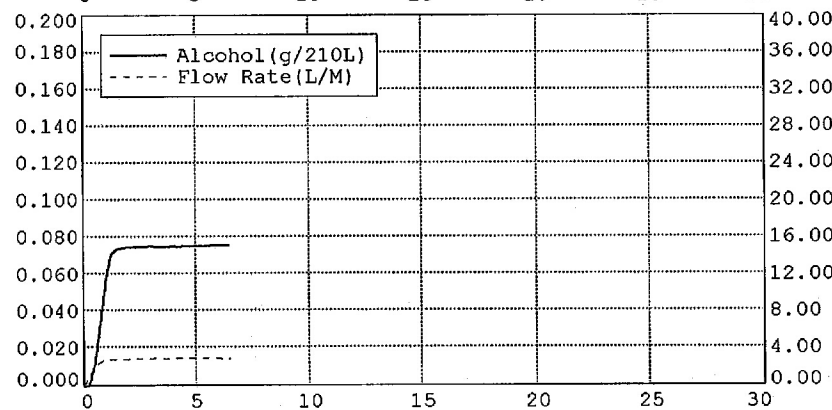
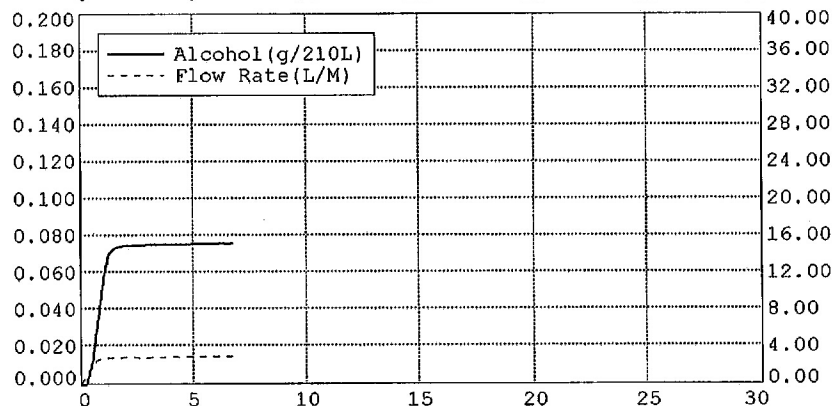
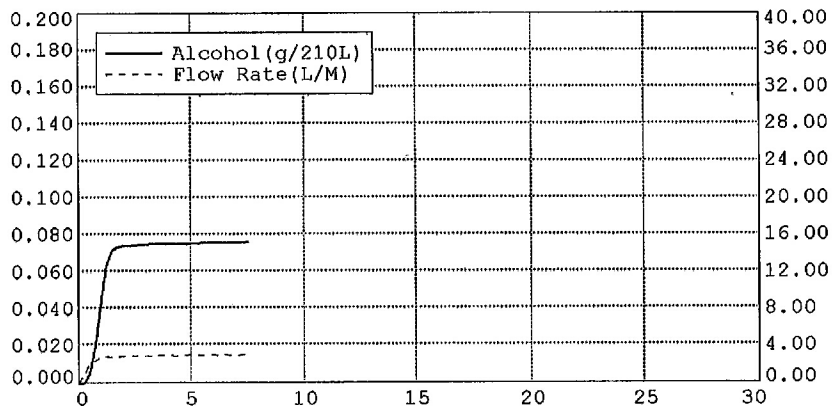
Date: 03/16/2011
Time: 10:45:01

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.14: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	10:46
INTERNAL STANDARD	VERIFIED	10:46
EXTERNAL STANDARD	0.077	10:46
BLANK TEST	0.000	10:47
EXTERNAL STANDARD	0.076	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.076	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.076	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.076	10:50
BLANK TEST	0.000	10:51

Average = 0.0762
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100363

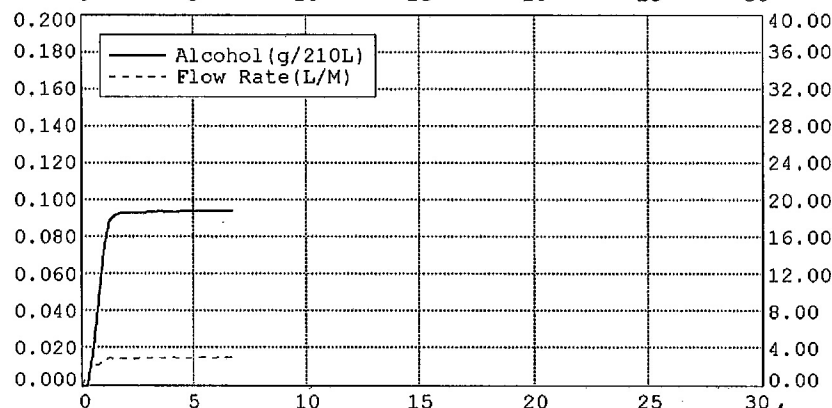
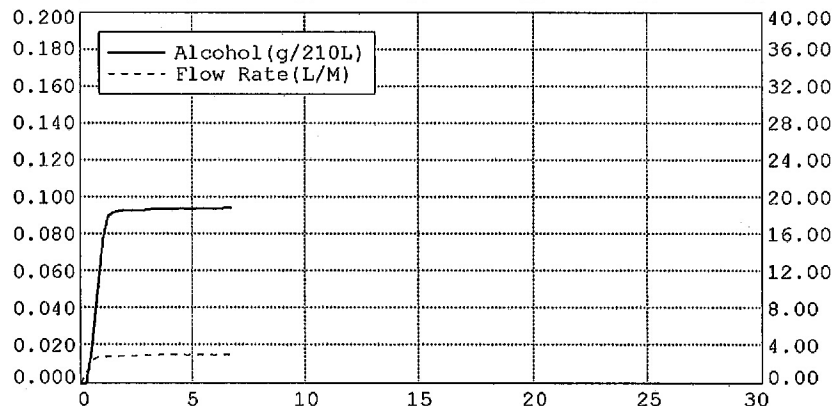
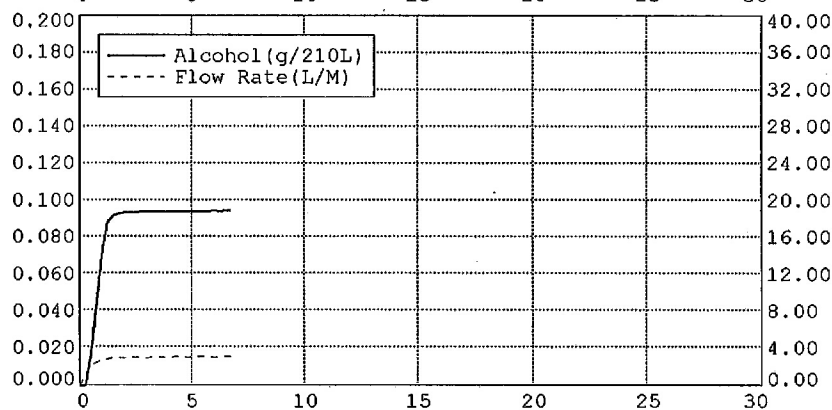
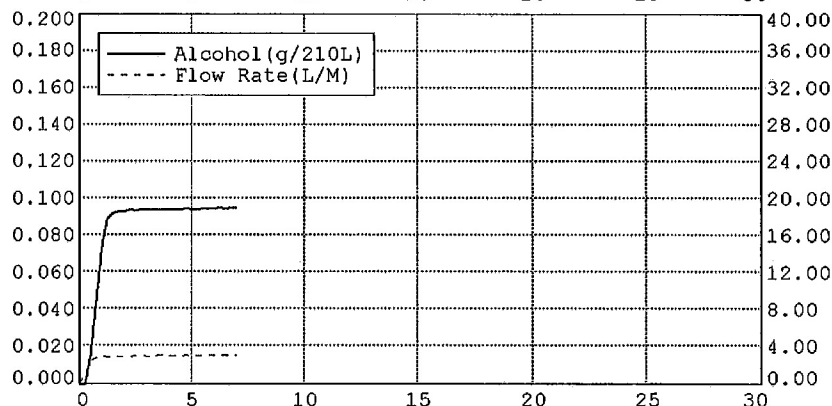
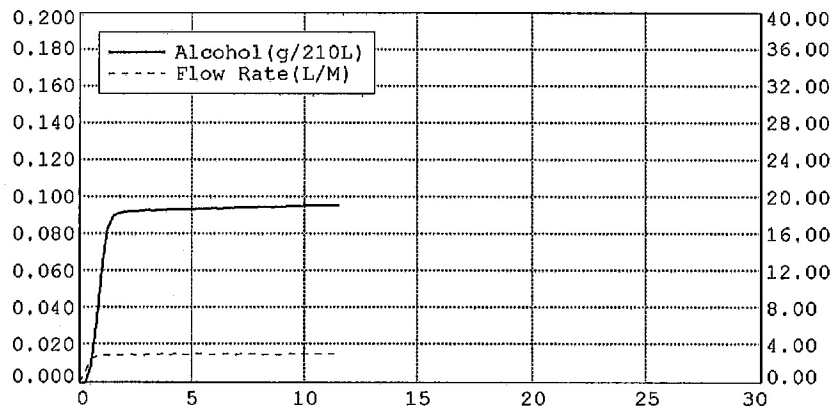
Date: 03/16/2011
Time: 11:03:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.14: 0.097
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:05
EXTERNAL STANDARD	0.096	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.095	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.095	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.095	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.095	11:09
BLANK TEST	0.000	11:10

Average = 0.0952
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100363

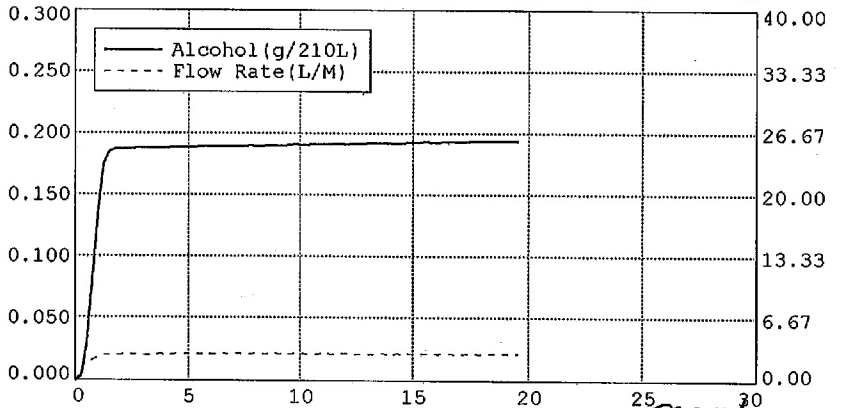
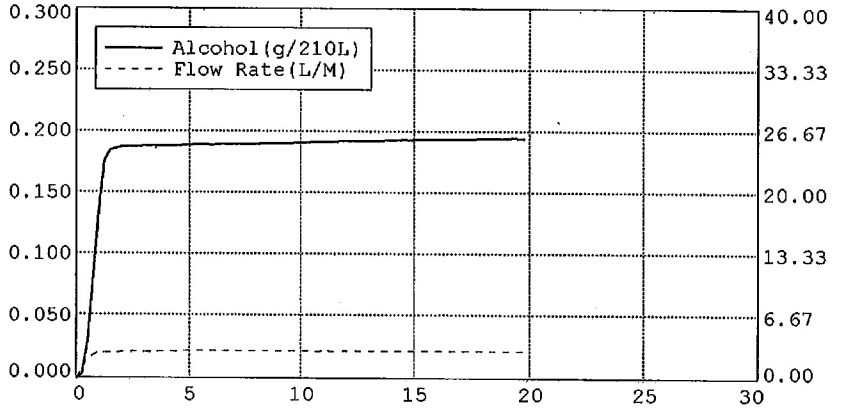
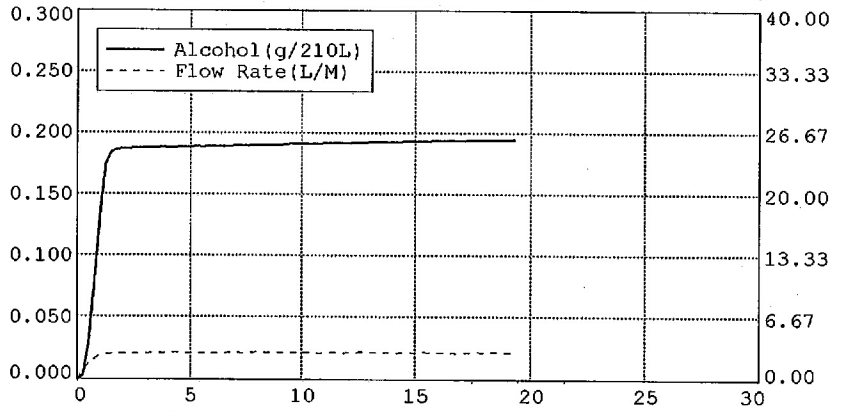
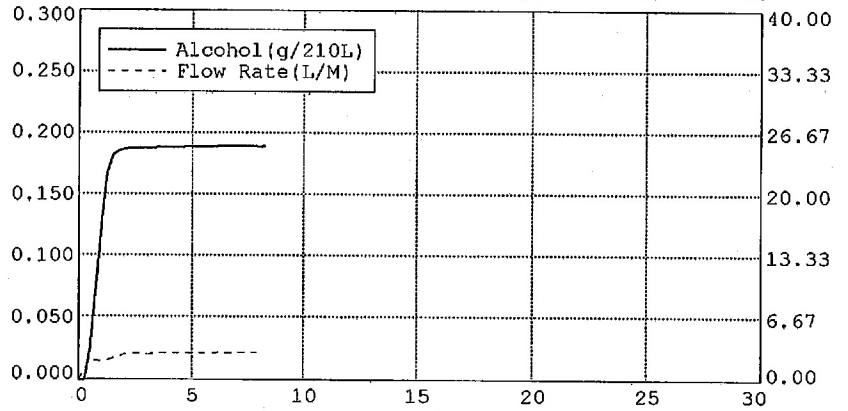
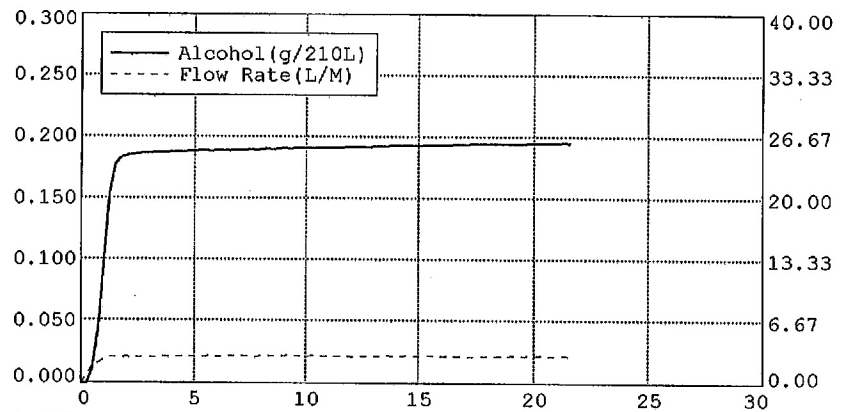
Date: 03/16/2011
Time: 11:12:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.14: 0.194
LOT #: 05611200A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:15
INTERNAL STANDARD	VERIFIED	11:15
EXTERNAL STANDARD	0.195	11:16
BLANK TEST	0.000	11:17
EXTERNAL STANDARD	0.189	11:17
BLANK TEST	0.000	11:18
EXTERNAL STANDARD	0.195	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.195	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.194	11:22
BLANK TEST	0.000	11:23

Average = 0.1936
Std Dev = 0.0026



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100363

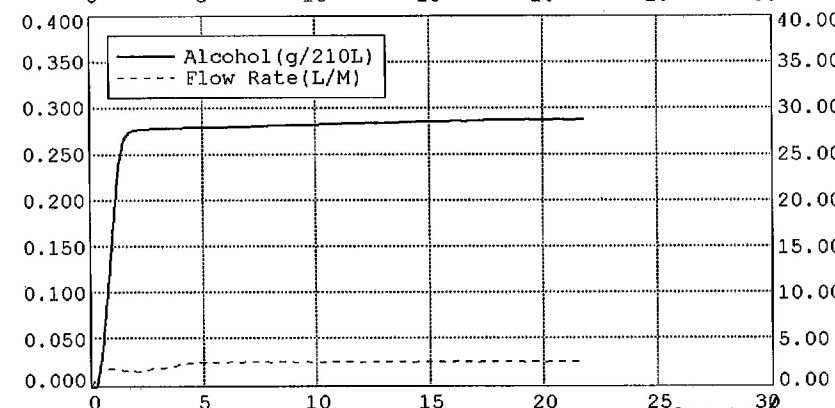
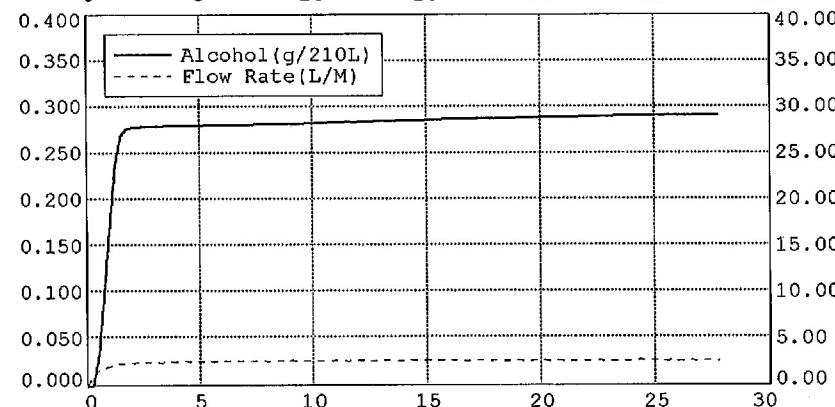
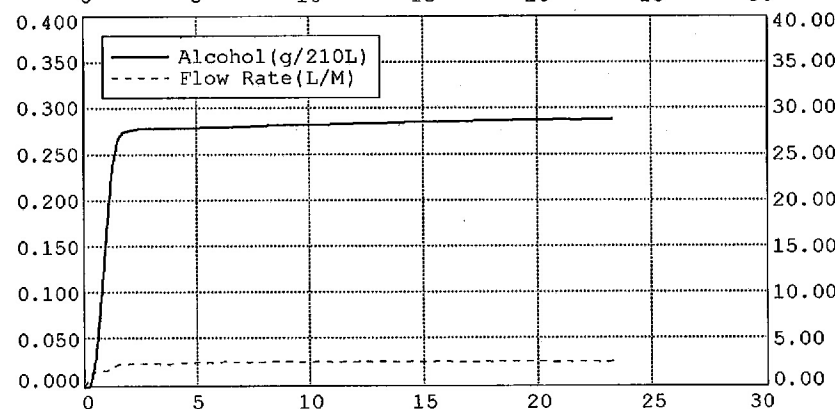
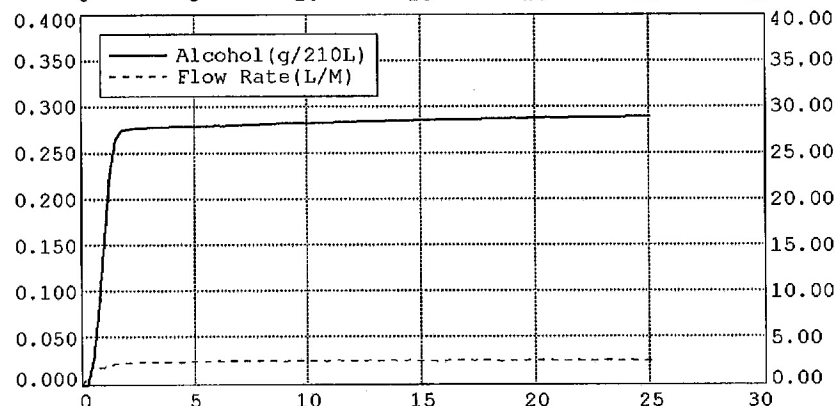
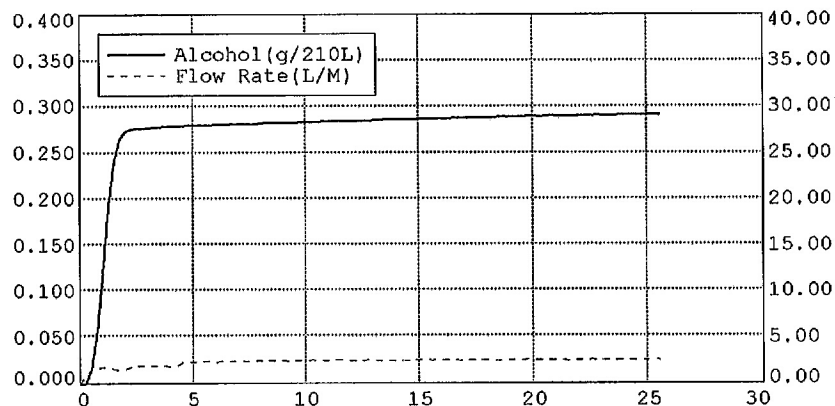
Date: 03/16/2011
Time: 11:24:25

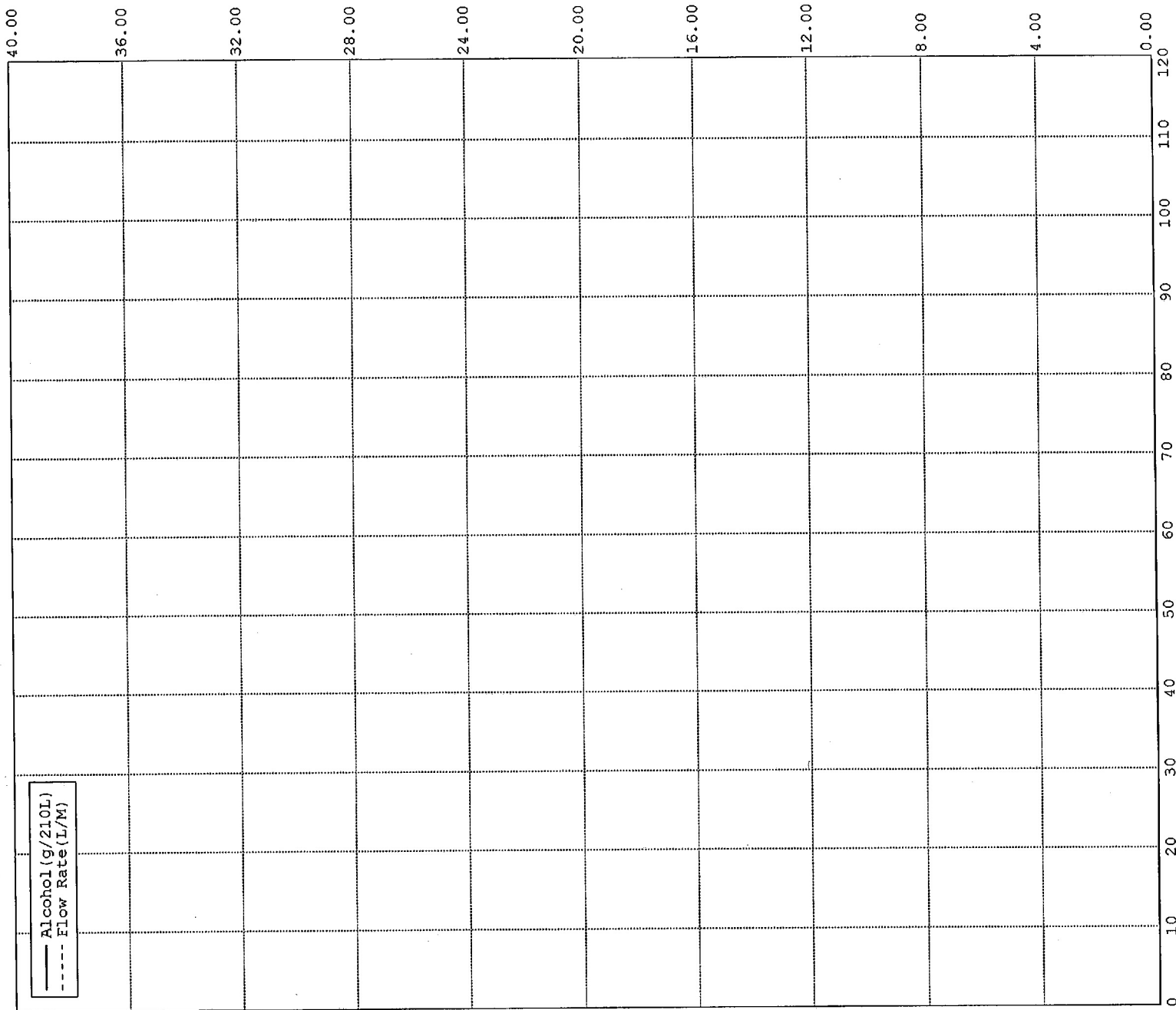
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.14: 0.292
LOT #: 05611300A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:27
EXTERNAL STANDARD	0.291	11:27
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.290	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.288	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.291	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.288	11:34
BLANK TEST	0.000	11:36

Average = 0.2896
Std Dev = 0.0015





SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 03/15/2011
Time: 15:25:28

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

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

DEPT/AGENCY:
AAAI

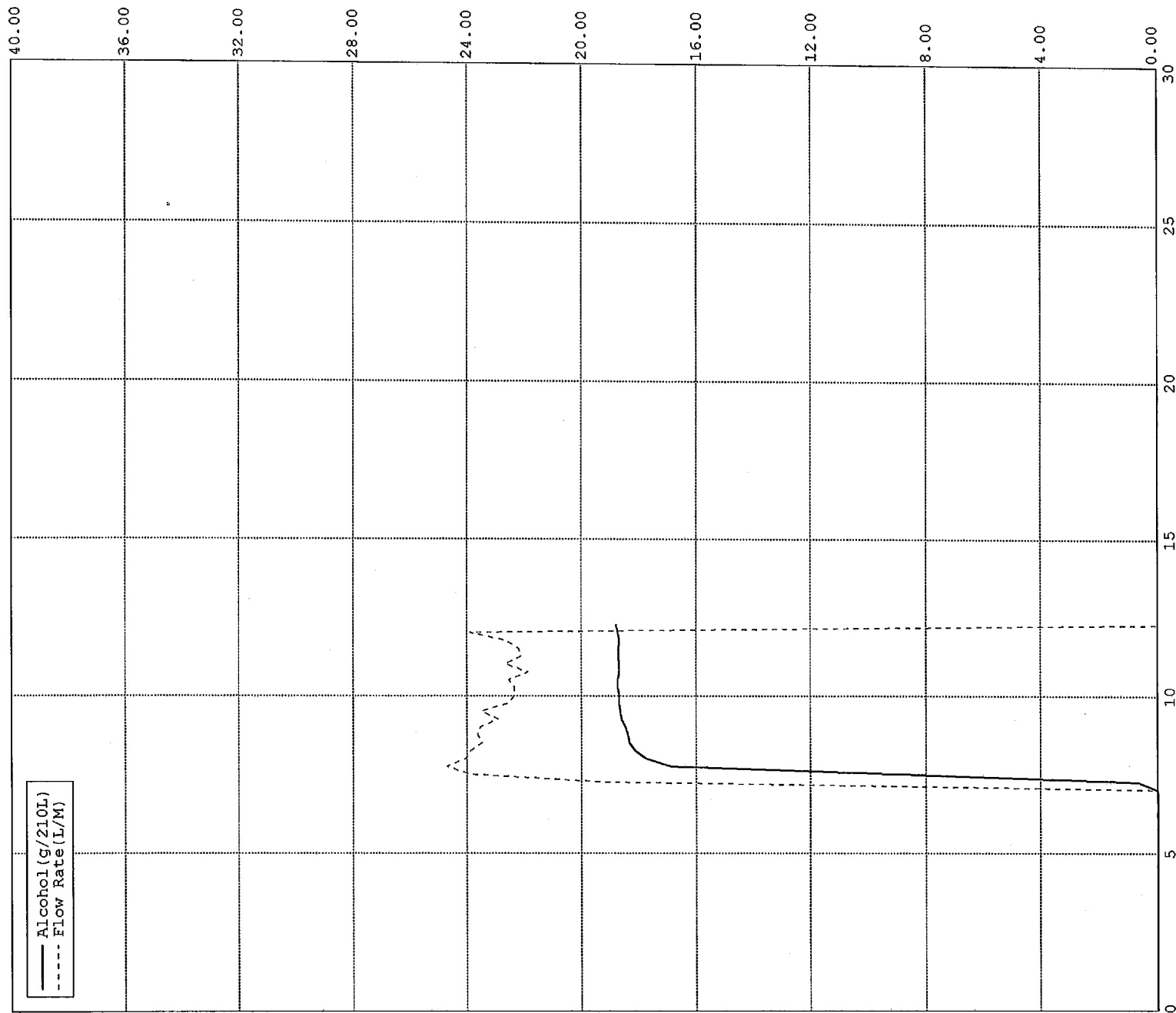
CASE/REPORT: 11-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.14: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:26
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.076	15:27
BLANK TEST	0.000	15:27
SUBJECT SAMPLE	INCOMPLETE	15:30

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CWB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 03/16/2011
Time: 11:46:41

SUBJECT NAME:

TEST TEST
LICENSE #: INTF-ISO

OPERATOR NAME:

COLLEEN S O'BRYAN
OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

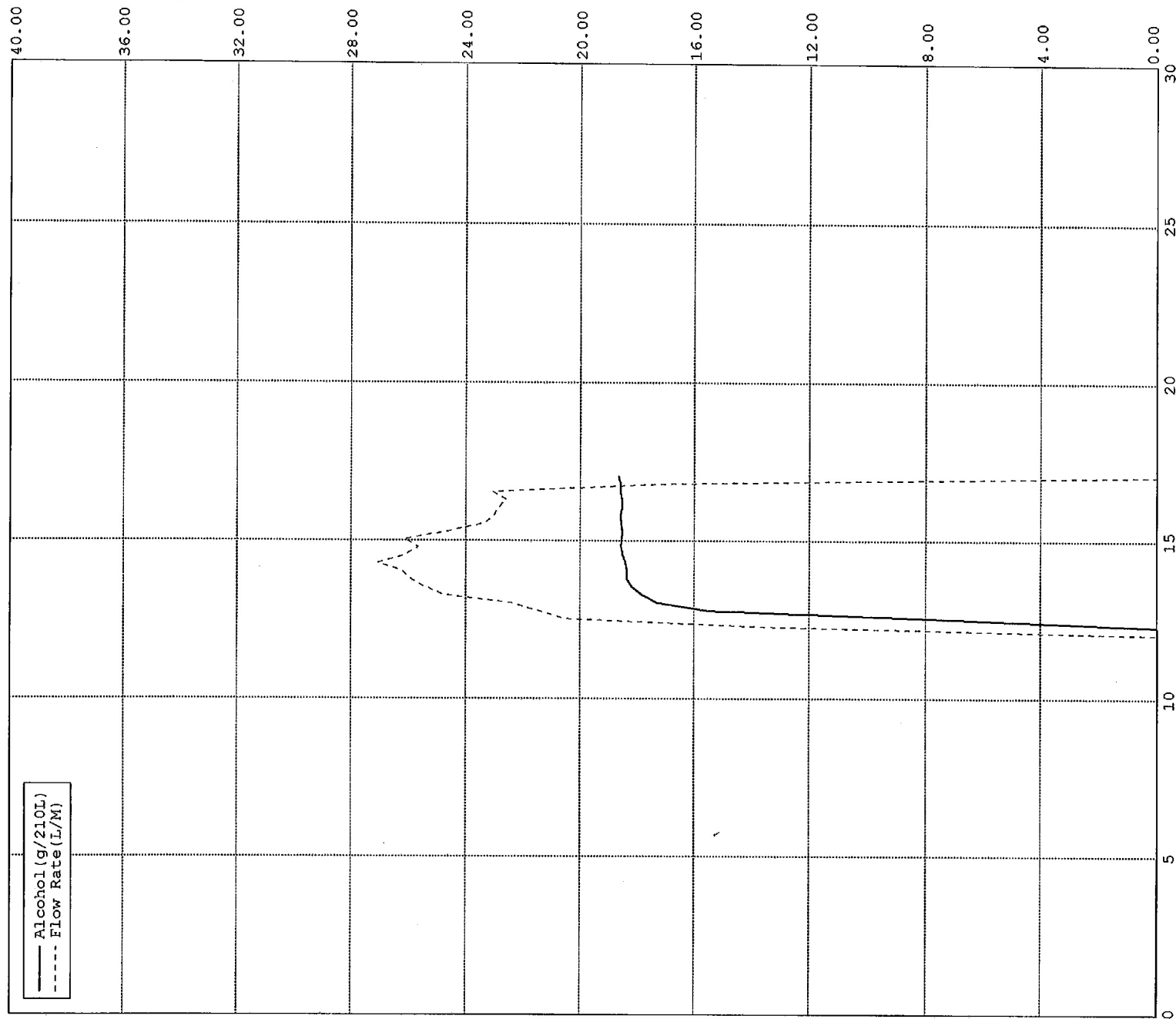
NOMINAL: 0.080
TARGET AT 29.15: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

PASSED 11:47
BLANK TEST 0.000 11:48
INTERNAL STANDARD VERIFIED 11:48
EXTERNAL STANDARD 0.077 11:48
BLANK TEST 0.000 11:49
SUBJECT SAMPLE INTERFERENCE 11:49

CB

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SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100363

Date: 03/16/2011
Time: 11:51:30

SUBJECT NAME:

TEST TEST
LICENSE #: INTF-ACET

OPERATOR NAME:

COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 11-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

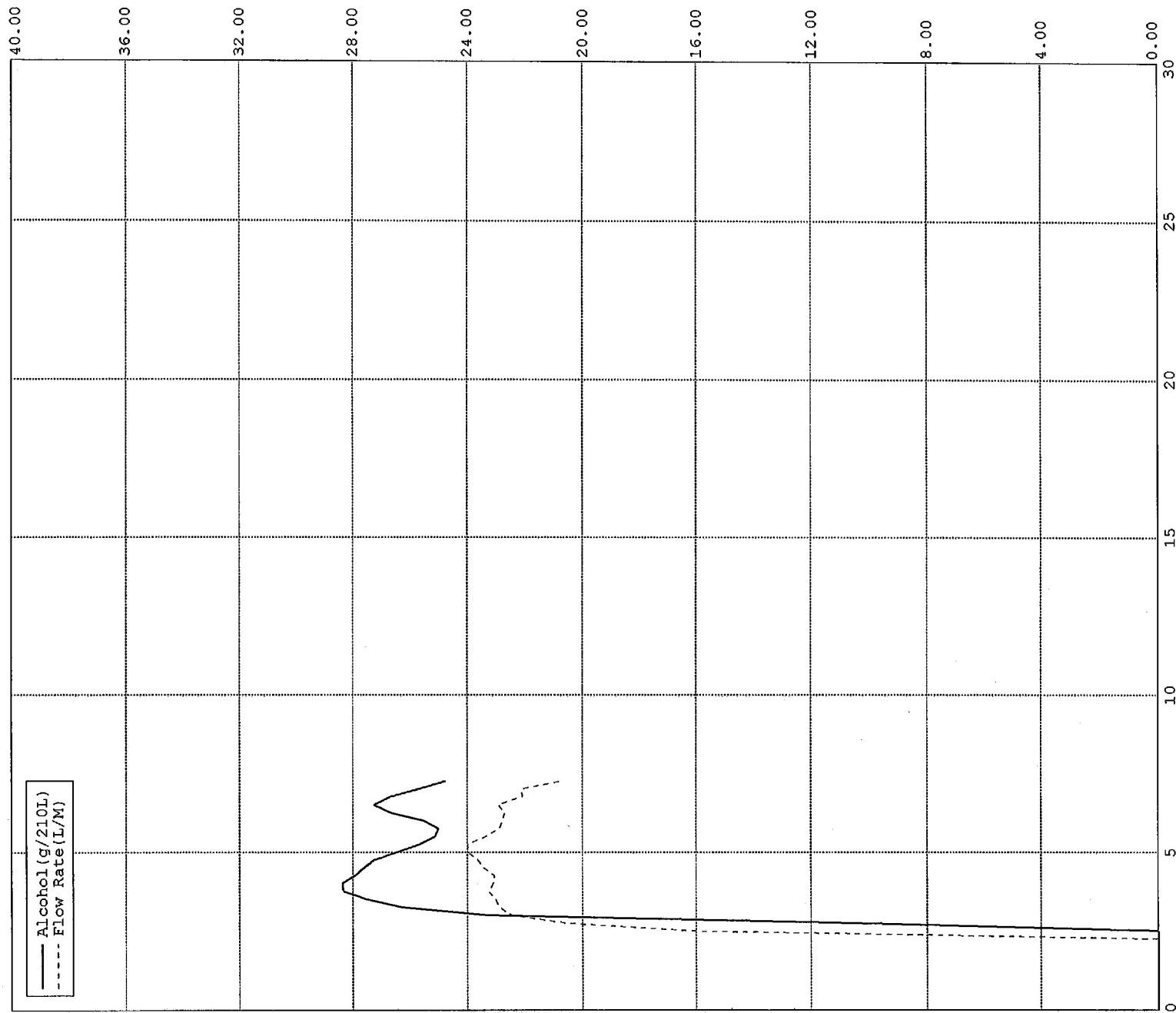
NOMINAL: 0.080
TARGET AT 29.16: 0.077
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

Test Type	Result	Time
BLANK TEST	PASSED	11:53
INTERNAL STANDARD	0.000	11:53
EXTERNAL STANDARD	VERIFIED	11:53
BLANK TEST	0.077	11:53
SUBJECT SAMPLE	0.000	11:54
INTERFERENCE	11:54	

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C03



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 03/16/2011
 Time: 11:56:56

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

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

DEPT/AGENCY:
 AAA1

CASE/REPORT: 11-1234
 TEST TYPE: TEST

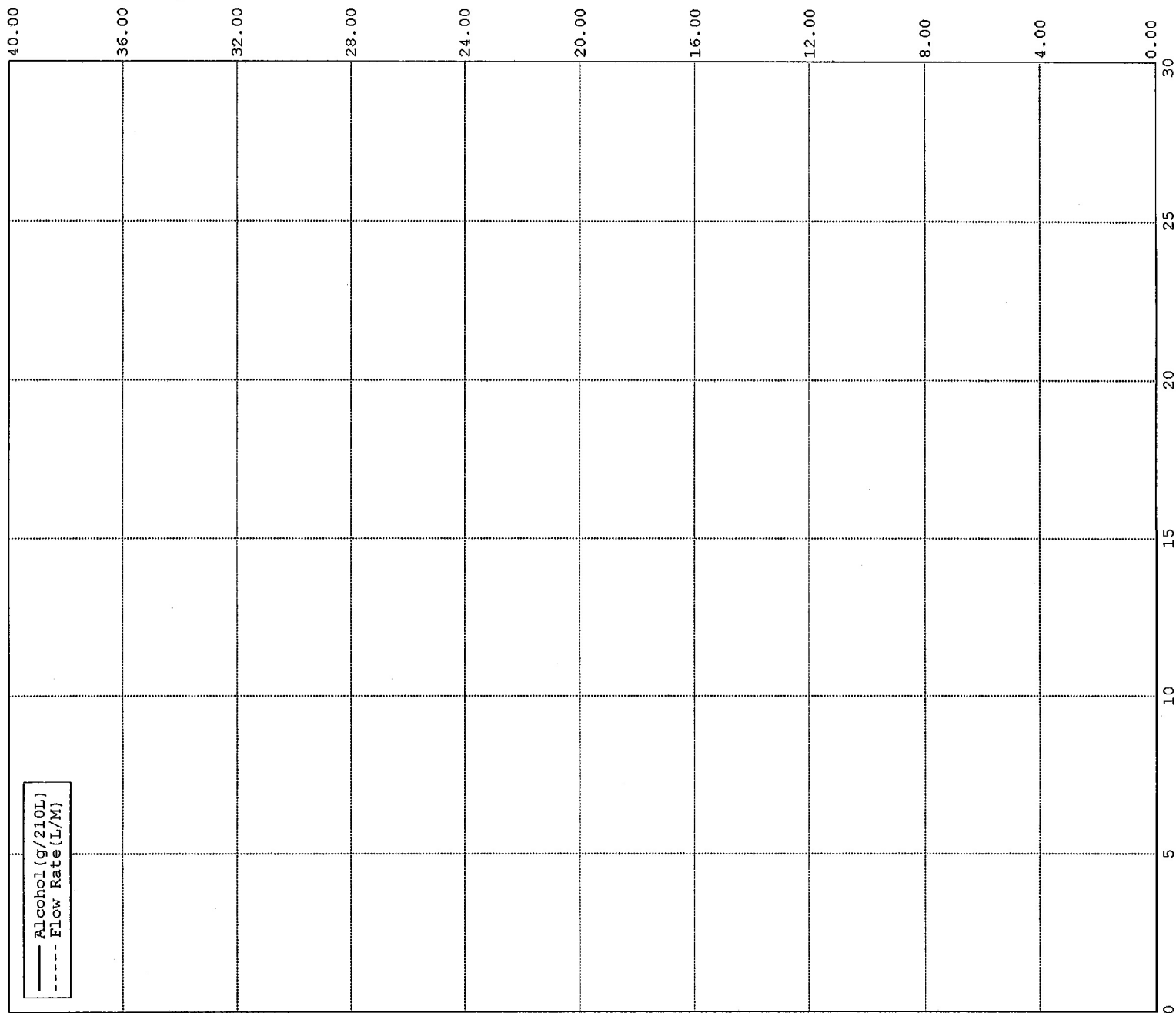
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.16: 0.077
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	11:58
BLANK TEST	0.000	11:58
INTERNAL STANDARD	VERIFIED	11:59
EXTERNAL STANDARD	0.077	11:59
BLANK TEST	0.000	12:00
SUBJECT SAMPLE	Invalid	12:00

CB

CB 16/18



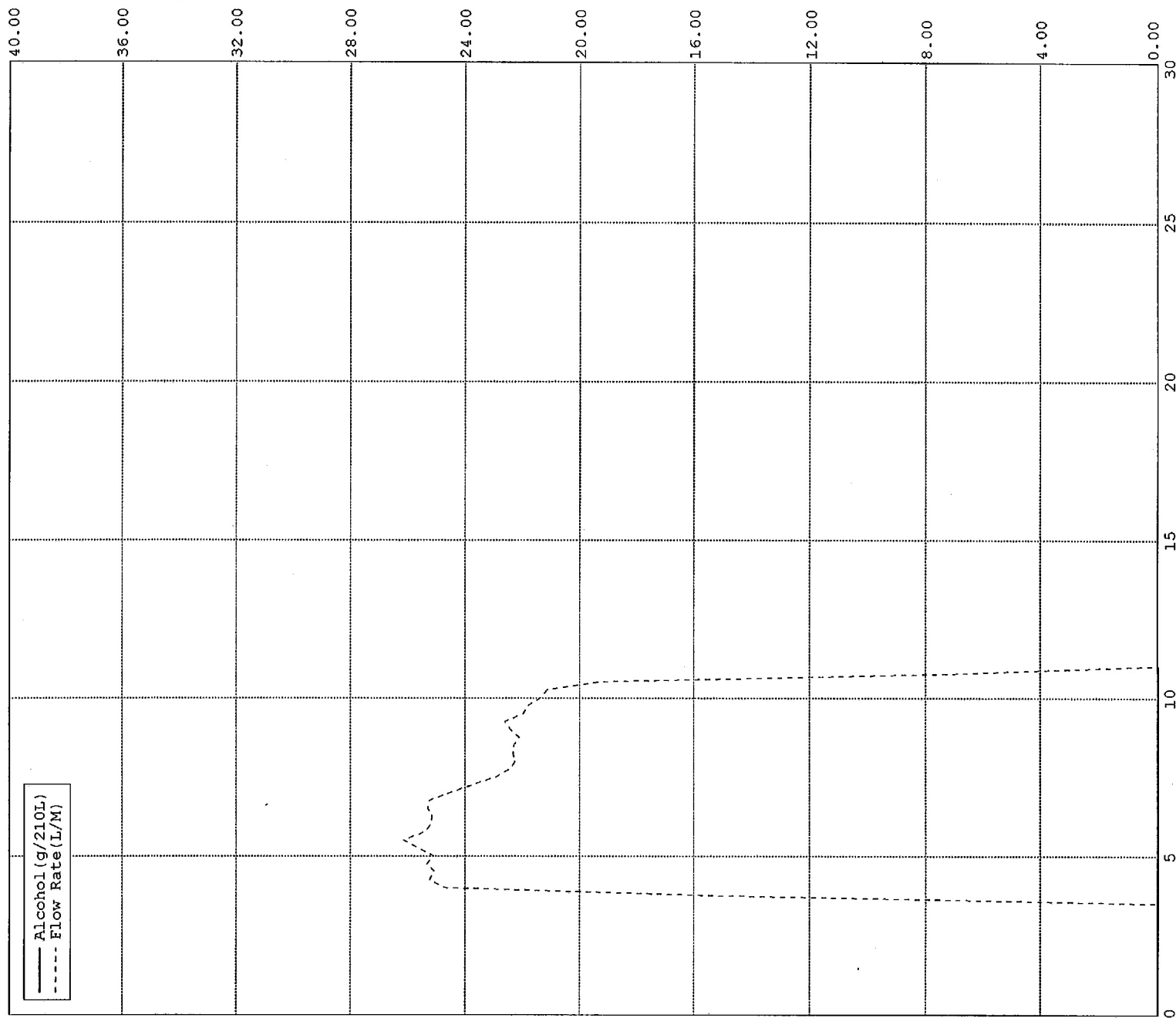
SUBJECT TEST	

Alaska Department of Public Safety	
DATAMASTER dmt: 100363	

Date: 03/16/2011	
Time: 12:07:31	

SUBJECT NAME:	
TEST TEST	
LICENSE #: RFI	
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 29.16: 0.077	
LOT #: 33609080A1	
EXPIRATION: 01/01/2012	
DIAGNOSTIC CHECK	PASSED 12:08
BLANK TEST	0.000 12:08
INTERNAL STANDARD	VERIFIED 12:08
EXTERNAL STANDARD	0.077 12:09
BLANK TEST	0.000 12:10
RFI Detected	

03/17/18



SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100363

Date: 03/16/2011
 Time: 12:41:44

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 29.16: 0.077
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK

BLANK TEST	0.000	PASSED	12:42
INTERNAL STANDARD	0.077	VERIFIED	12:43
EXTERNAL STANDARD	0.000		12:43
BLANK TEST	0.000		12:44
SUBJECT SAMPLE	0.000		12:44
BLANK TEST	0.000		12:45
EXTERNAL STANDARD	0.077		12:45
BLANK TEST	0.000		12:46

CB

03/18/18