

	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 # 100343Analyst Brandi BarnettDate 8/5/11

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 1500 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 7/1/12
 - ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 07/01/12
 - iii. 0.080g/210L Mnf ILMO Lot 02511080A2 Exp 2/1/2013
 - iv. 0.100g/210L Mnf ILMO Lot 07411200A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 03/01/2013
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 03/01/2013
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/2012
 1. Simulator Calibration Date 12/15/2010 SN DR4176
 - ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/2012
 1. Simulator Calibration Date 12/16/2010 SN SD1198
 - d. 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: 100343

Date: 08/05/2011
Time: 13:08:32

VERSIONS

DMT: 1.01
PIC: 3.03
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 45.4°C	PASSED

PUMP INFO

Flow Rate = 5.597 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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2/10 BMB

Technician Screen

DATAMASTER dmt: 100343

Date: 08/05/2011

Time: 1:32 PM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 43.9°C

Current Barometer 29.8 in

Volume (Ltr) 1.48

Settings

Lamp: 1.77 V

Bias: 79 V

Cooler: 1.74 V

Chopper: 520 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.004 V

3/18 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 07/26/2011
Time: 13:35:51

SUPERVISOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: 11050
BOTTLE #: 481
EXPIRATION: 04/06/2013

Ca = 0.1000
CAL = 0.997941 0.800 <= CAL < 1.200
b1 = 0.0002 0.0000 <= b1 < 0.0040
b2 = 0.0024 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.0839 0.0500 <= Xq < 0.2000
a21 = 1.158061 1.050 <= a21 < 1.300
a31 = 0.501484 0.300 <= a31 < 0.800

4/18/2013

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100343

Date: 08/05/2011
Time: 13:37:08

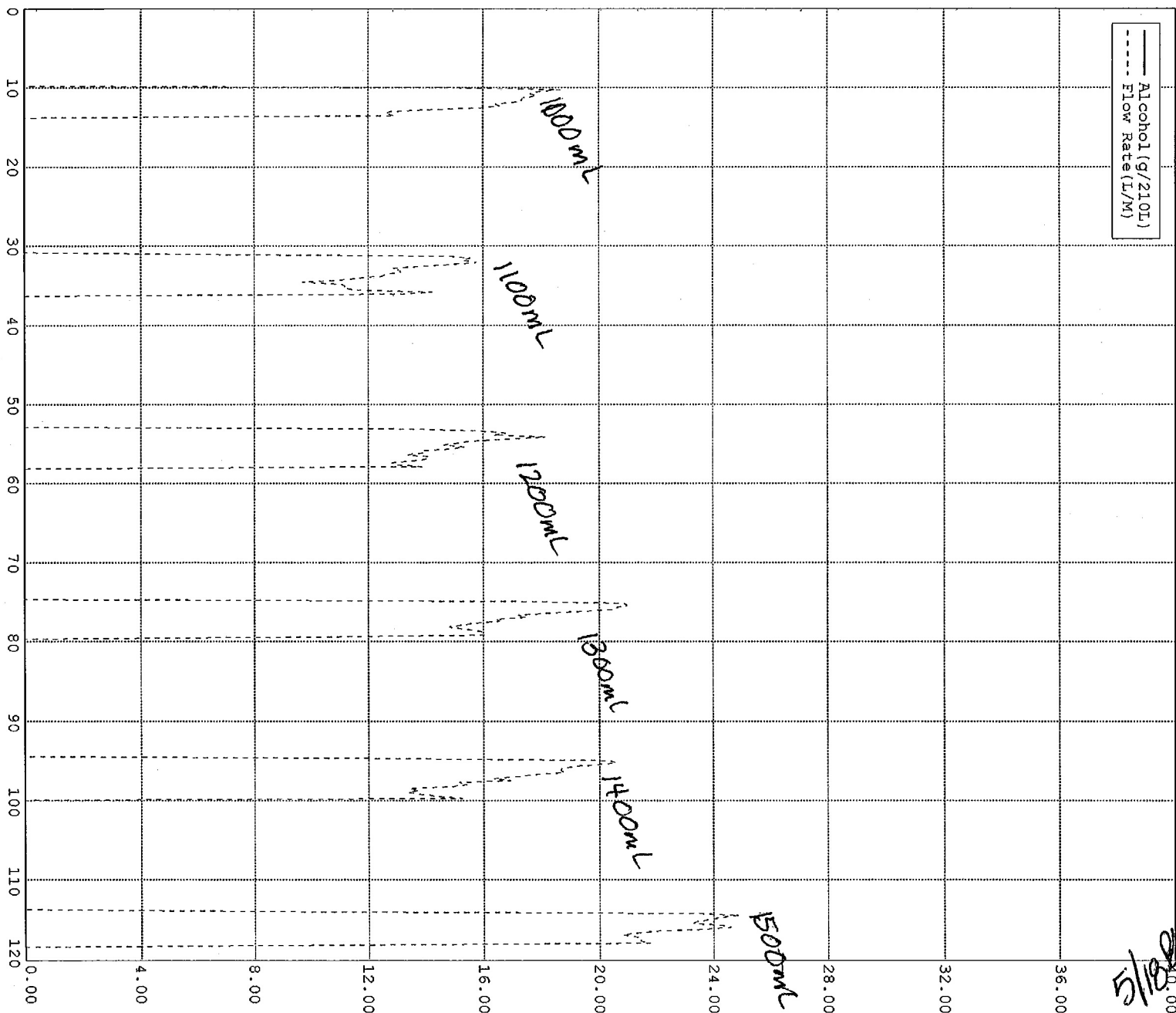
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.79: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	13:38
BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.080	13:38
BLANK TEST	0.000	13:39
SUBJECT SAMPLE	0.000	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.080	13:42
BLANK TEST	0.000	13:43



5/18/2013

LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100343

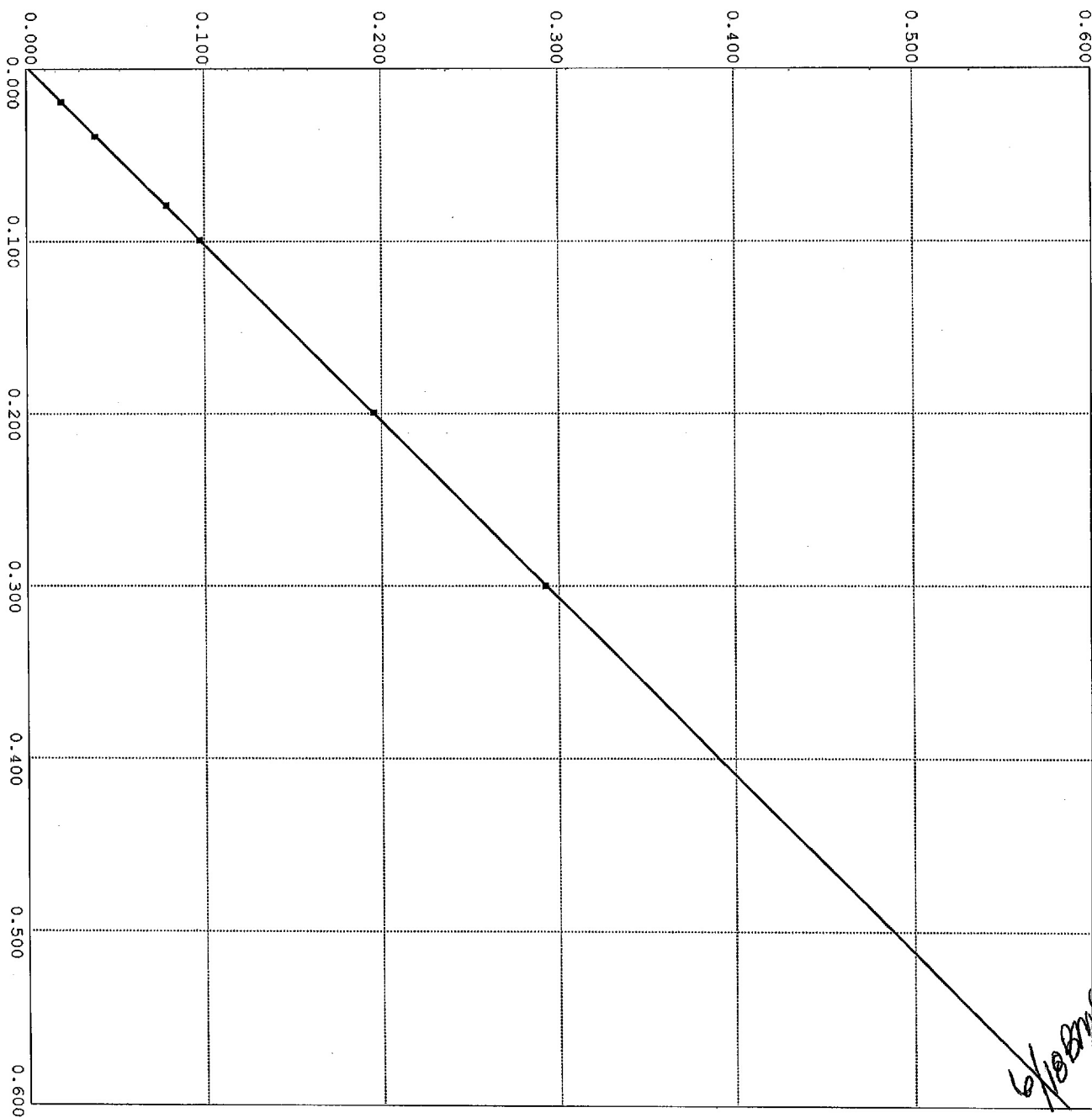
Date: 08/05/2011
Time: 14:03:52

SUPERVISOR NAME:
BRANDI M BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0392	0.0004
0.079	0.0794	0.0005
0.099	0.0984	0.0005
0.199	0.1964	0.0005
0.299	0.2932	0.0004

SLOPE = 0.976056
 R^2 = 0.999991

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100343

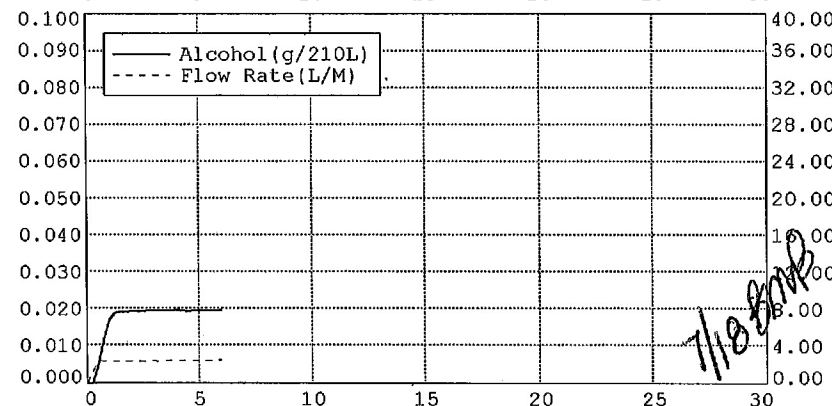
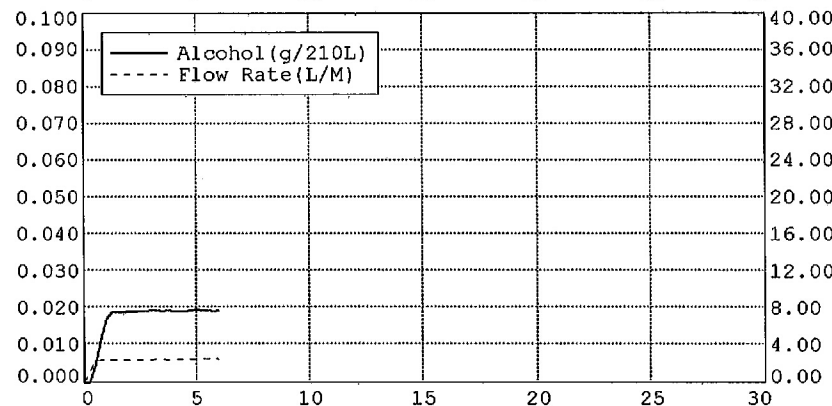
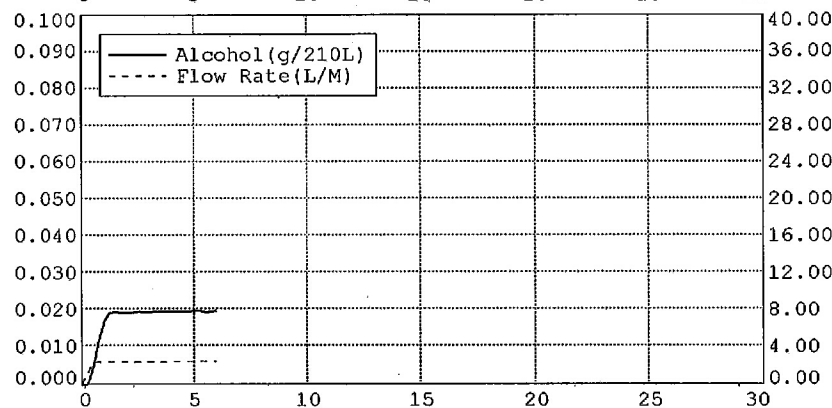
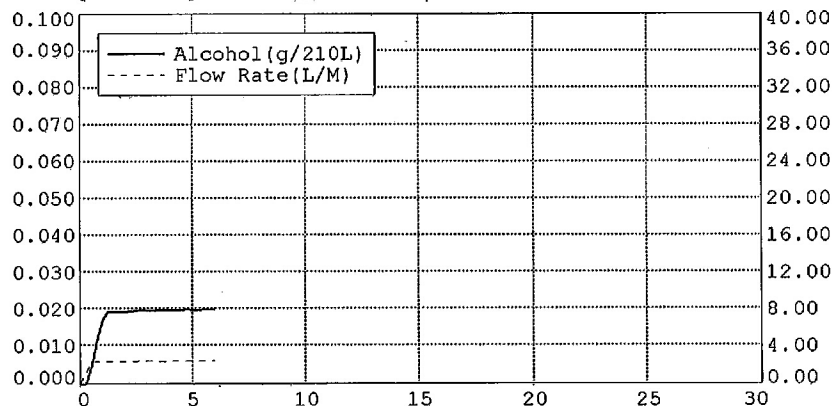
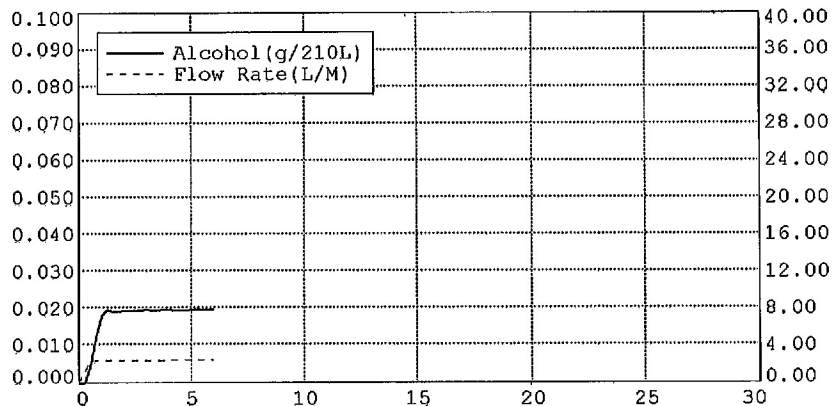
Date: 08/05/2011
Time: 14:03:54

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.79: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:05
INTERNAL STANDARD	VERIFIED	14:05
EXTERNAL STANDARD	0.020	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.021	14:06
BLANK TEST	0.000	14:07
EXTERNAL STANDARD	0.020	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.020	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.020	14:10
BLANK TEST	0.000	14:10

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100343

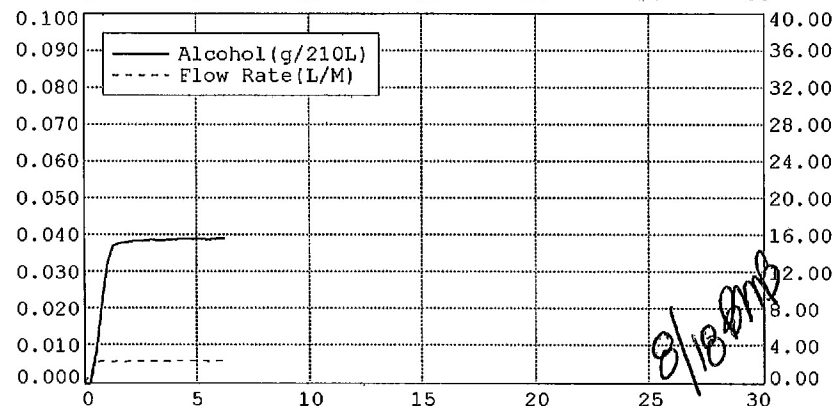
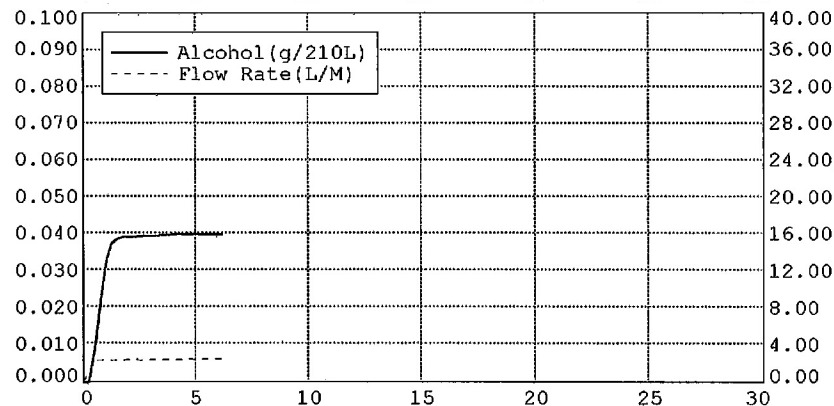
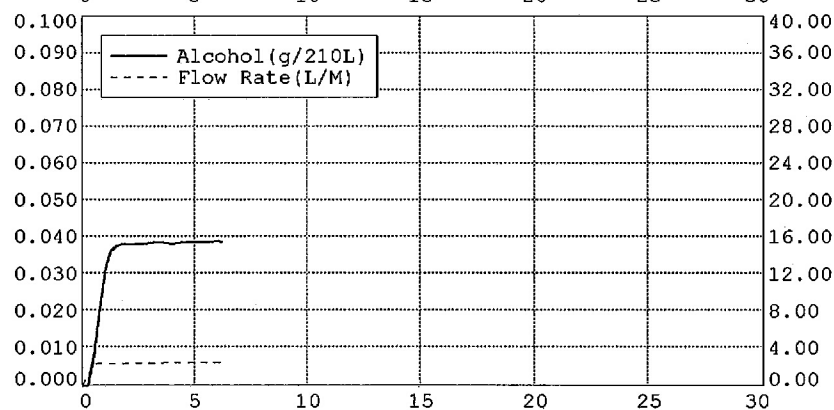
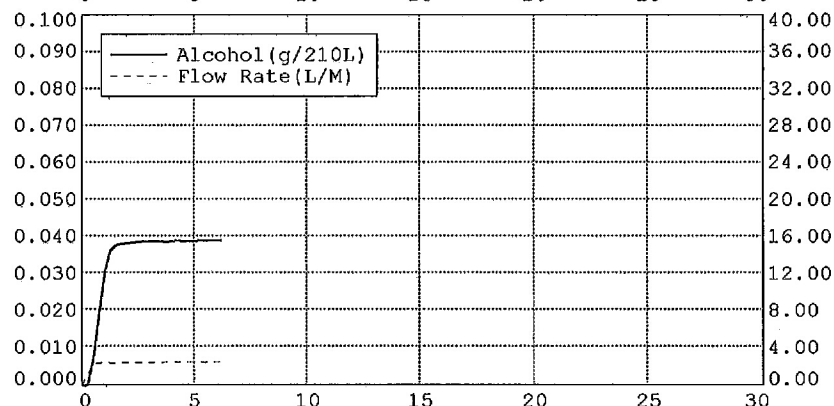
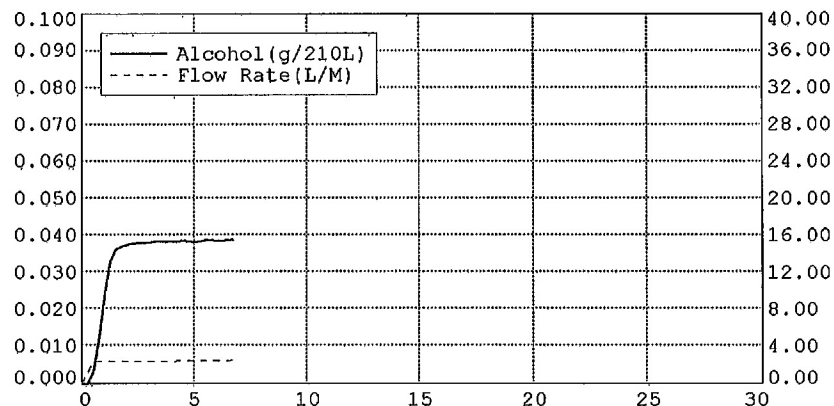
Date: 08/05/2011
Time: 14:37:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.80: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	14:38
INTERNAL STANDARD	VERIFIED	14:38
EXTERNAL STANDARD	0.039	14:38
BLANK TEST	0.000	14:39
EXTERNAL STANDARD	0.039	14:39
BLANK TEST	0.000	14:40
EXTERNAL STANDARD	0.039	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.040	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.039	14:43
BLANK TEST	0.000	14:43

Average = 0.0392
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

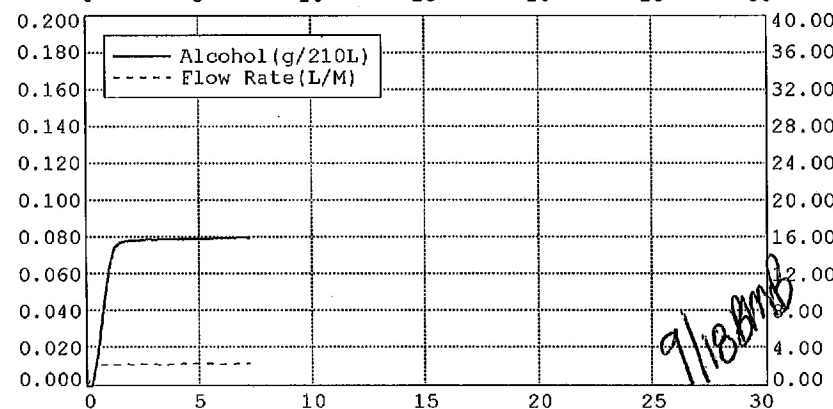
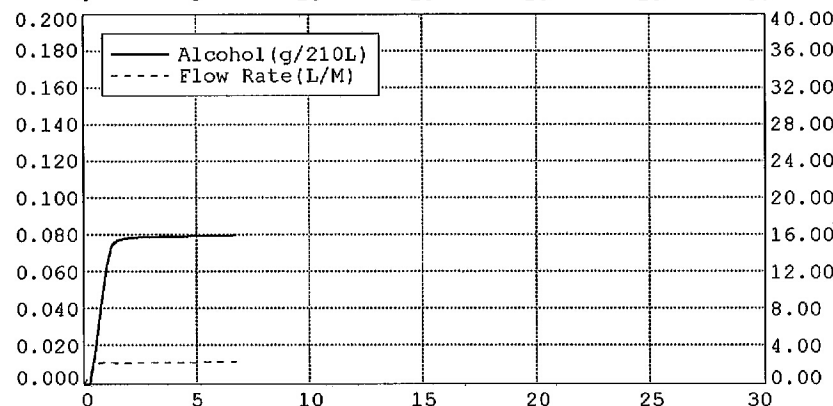
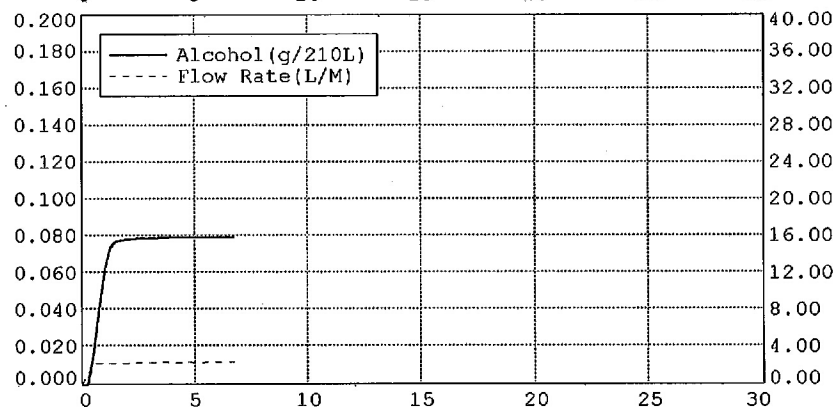
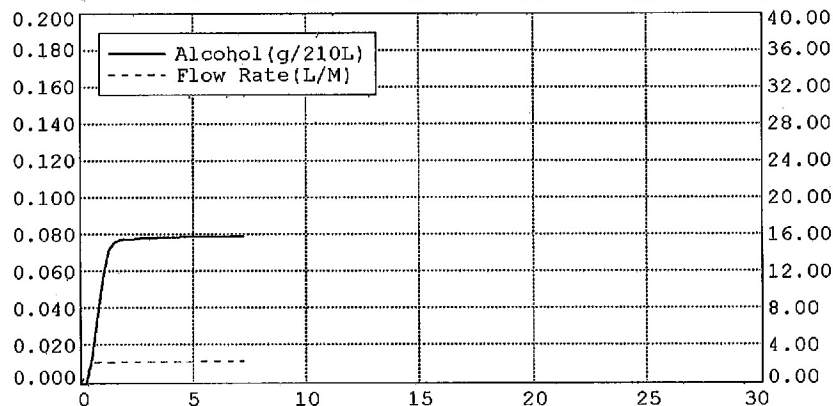
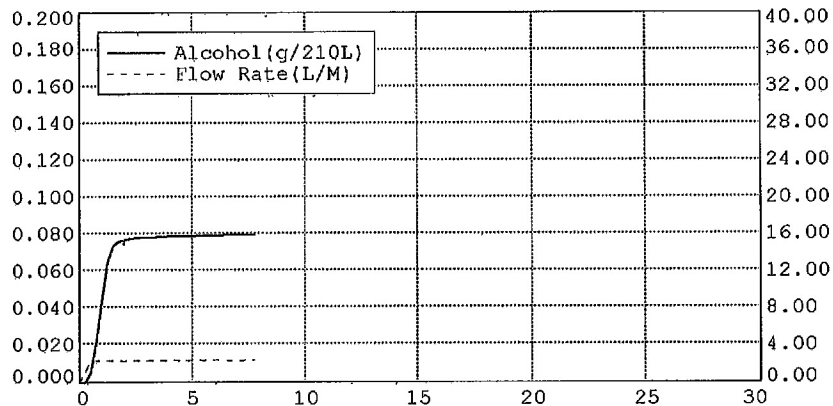
Alaska Department of Public Safety
DATAMASTER dmt: 100343

Date: 08/05/2011
Time: 14:53:43

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.81: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:54
EXTERNAL STANDARD	0.079	14:55
BLANK TEST	0.000	14:56
EXTERNAL STANDARD	0.079	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.079	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.080	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.080	14:59
BLANK TEST	0.000	15:00

Average = 0.0794
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100343

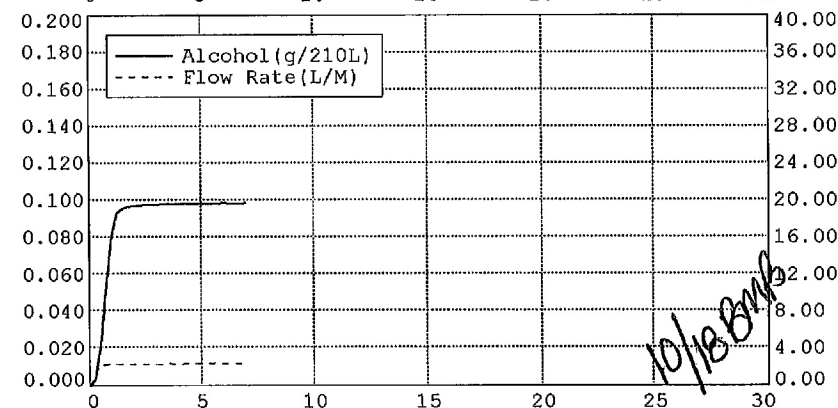
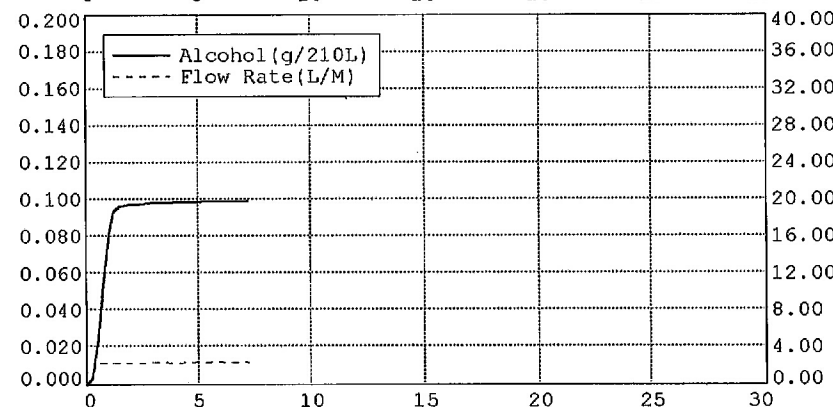
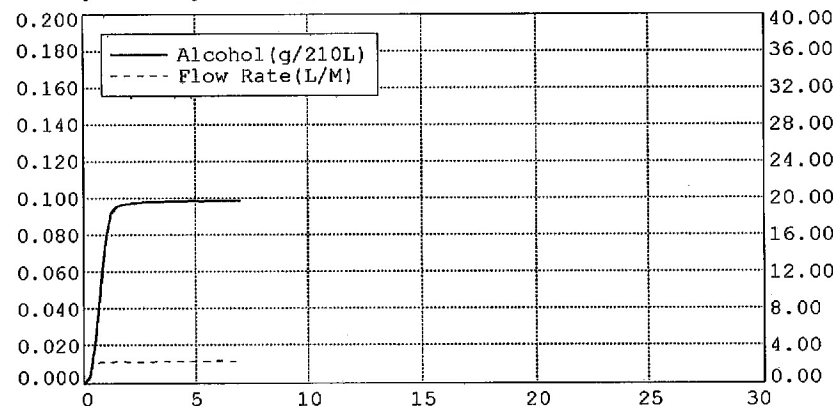
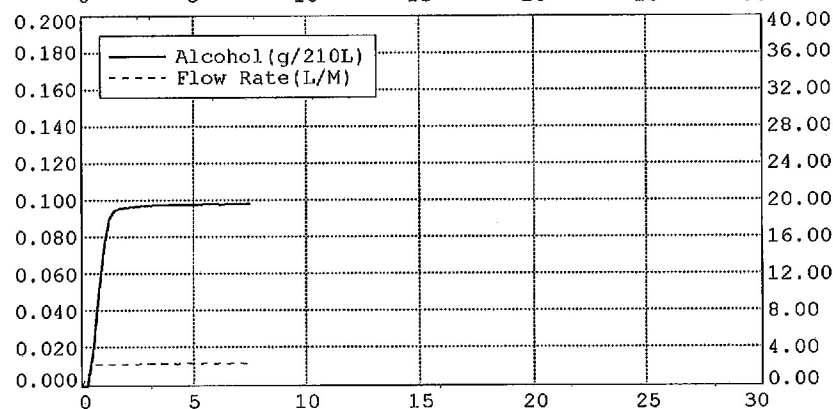
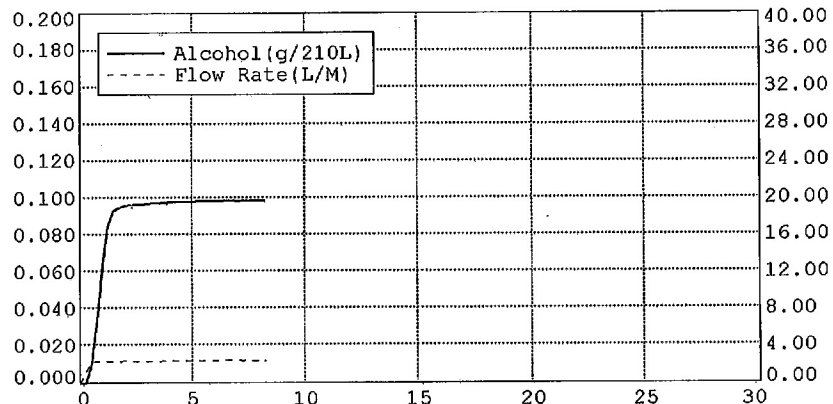
Date: 08/05/2011
Time: 15:13:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.81: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:14
INTERNAL STANDARD	VERIFIED	15:14
EXTERNAL STANDARD	0.098	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.098	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.099	15:16
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.099	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.098	15:19
BLANK TEST	0.000	15:19

Average = 0.0984
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100343

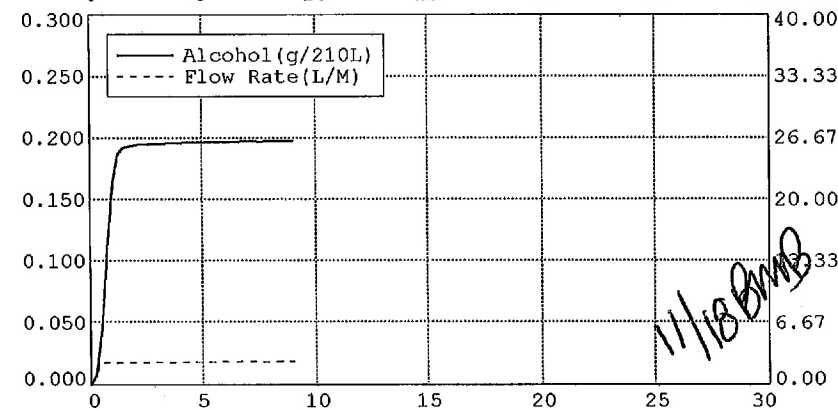
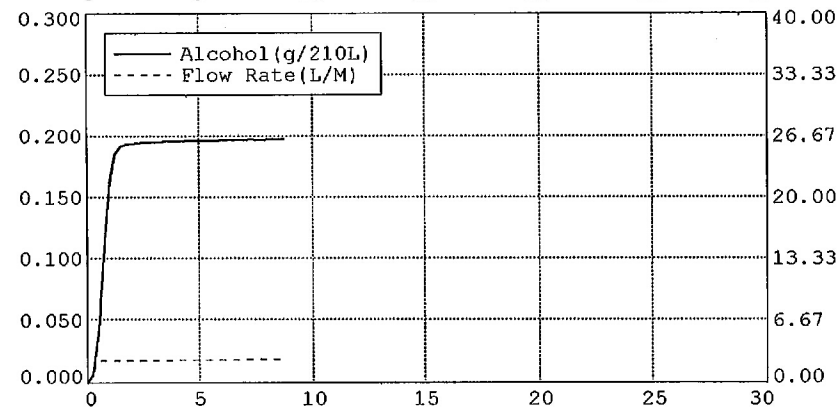
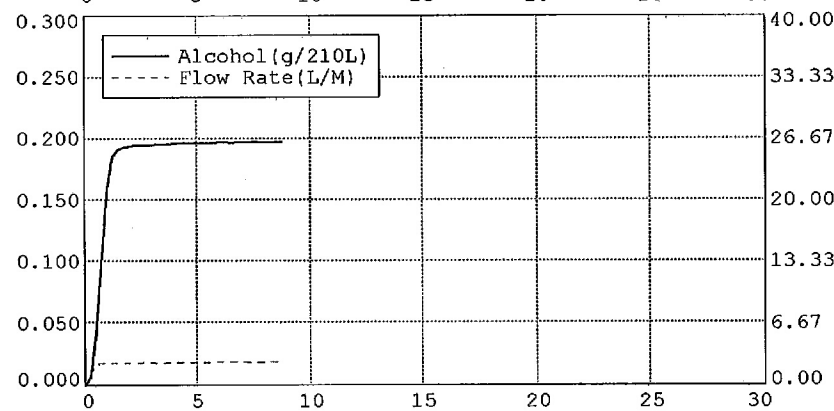
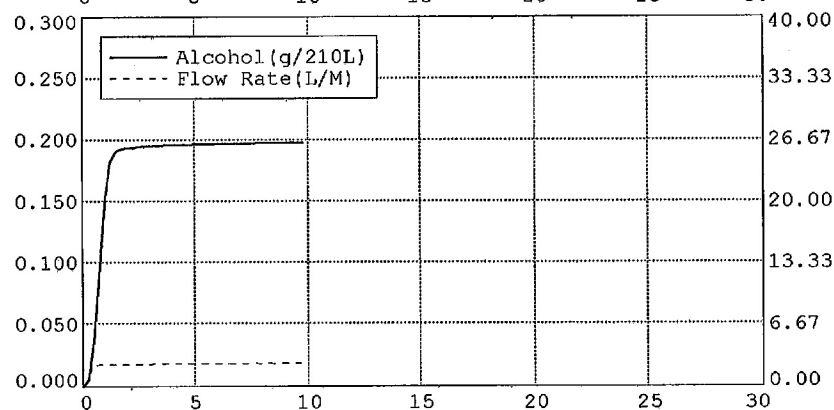
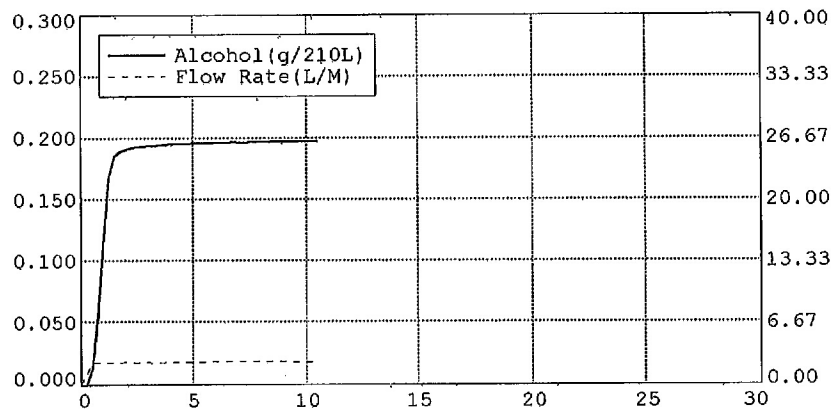
Date: 08/05/2011
Time: 15:50:42

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.83: 0.199
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:51
INTERNAL STANDARD	VERIFIED	15:51
EXTERNAL STANDARD	0.196	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.197	15:53
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.196	15:54
BLANK TEST	0.000	15:55
EXTERNAL STANDARD	0.196	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.197	15:56
BLANK TEST	0.000	15:57

Average = 0.1964
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100343

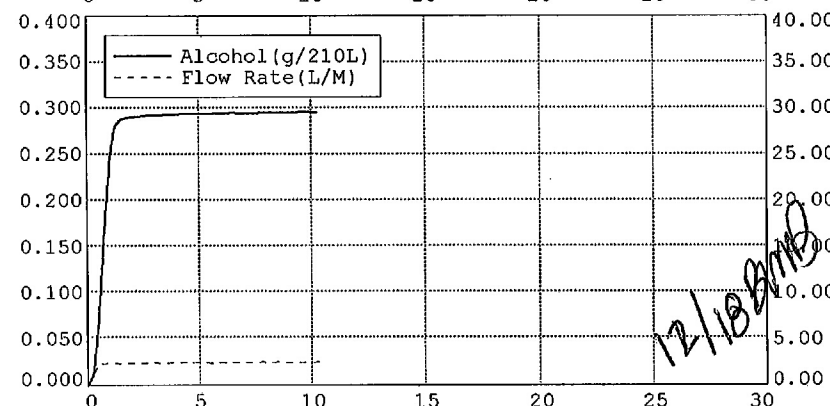
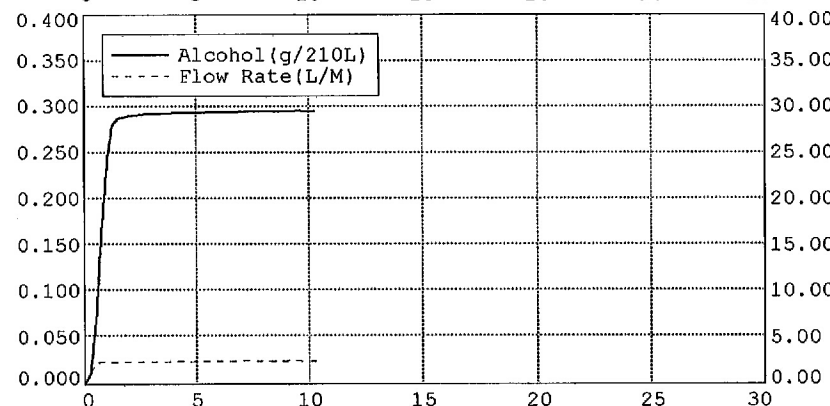
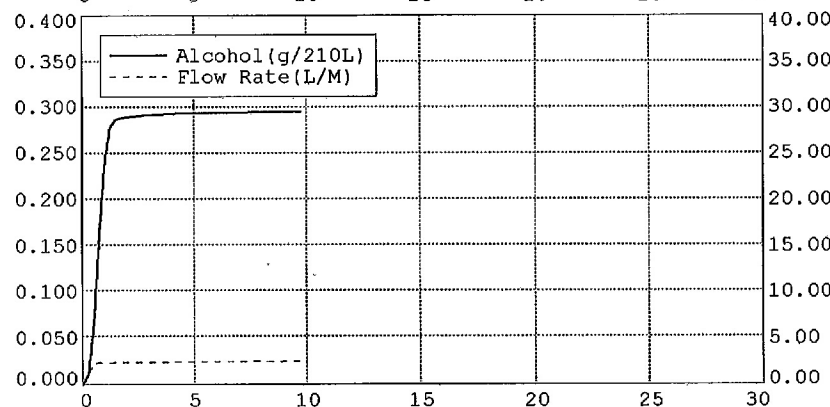
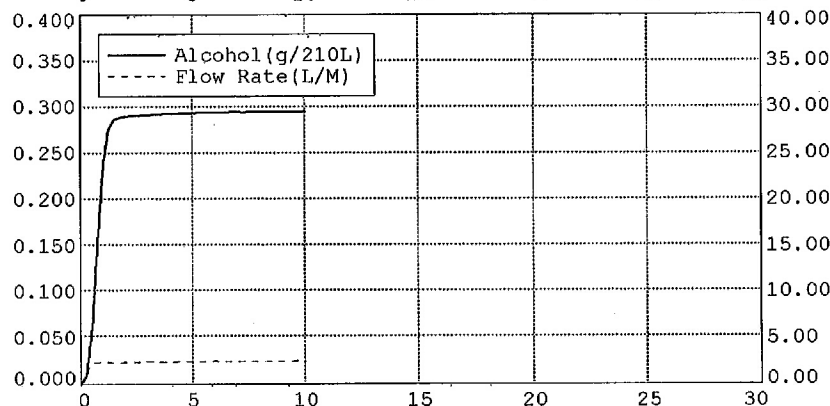
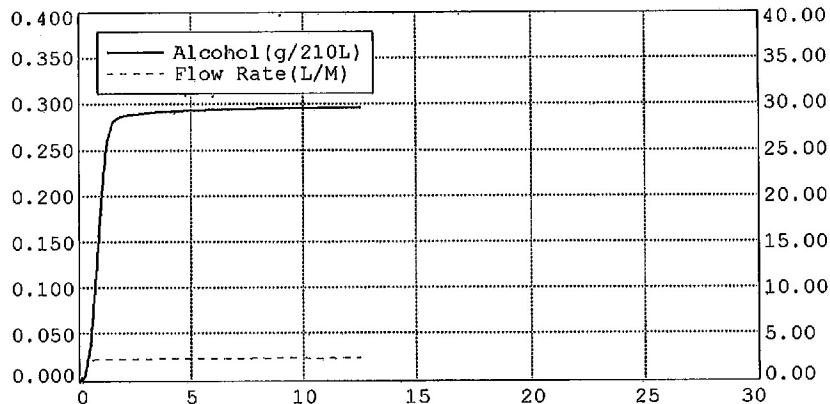
Date: 08/05/2011
Time: 15:58:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.84: 0.299
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:59
INTERNAL STANDARD	VERIFIED	15:59
EXTERNAL STANDARD	0.294	16:00
BLANK TEST	0.000	16:01
EXTERNAL STANDARD	0.293	16:01
BLANK TEST	0.000	16:02
EXTERNAL STANDARD	0.293	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.293	16:03
BLANK TEST	0.000	16:04
EXTERNAL STANDARD	0.293	16:04
BLANK TEST	0.000	16:05

Average = 0.2932
Std Dev = 0.0004



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100343

Date: 08/10/2011
Time: 15:10:50

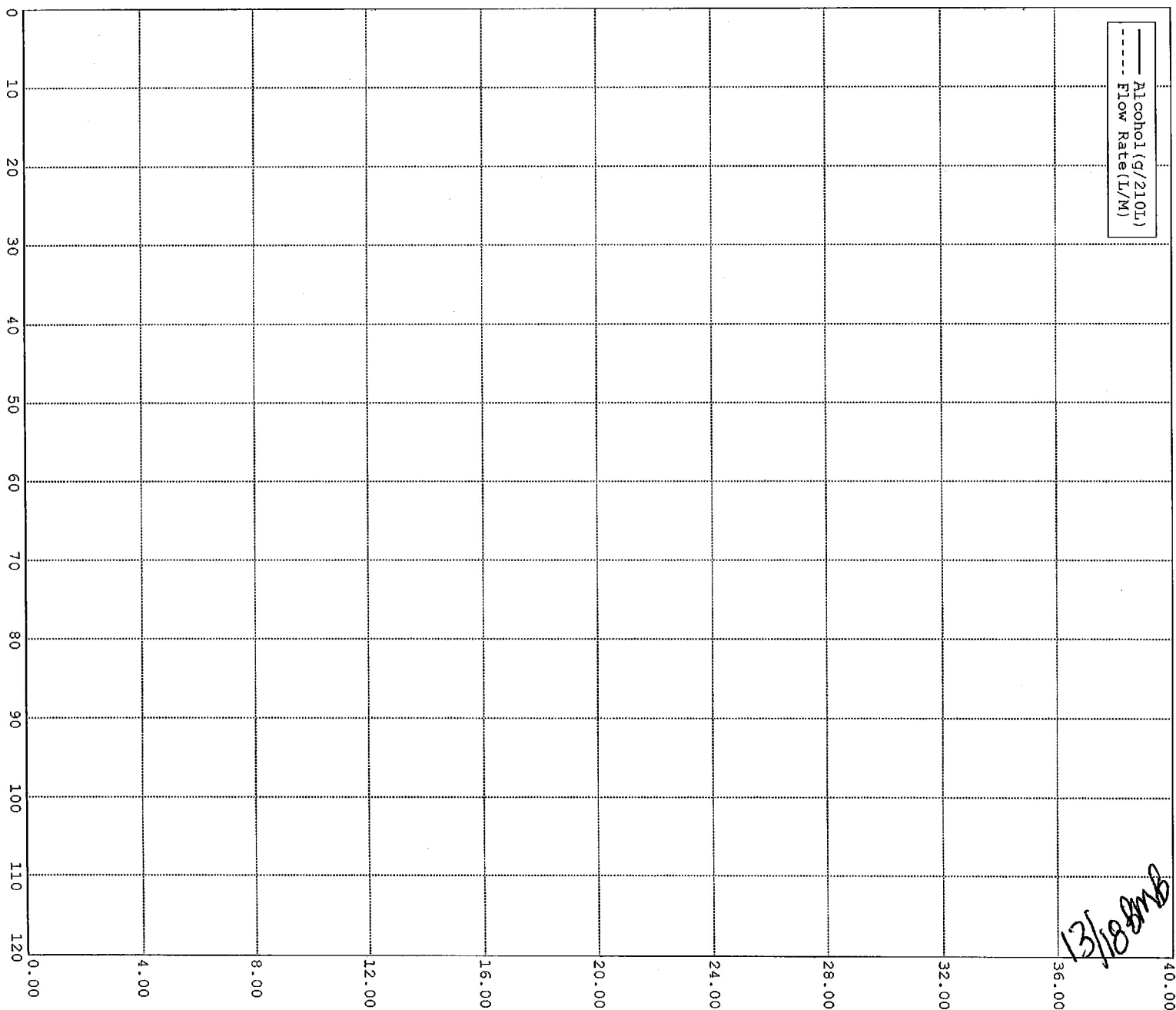
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.98: 0.080
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:11
BLANK TEST	0.000	15:12
INTERNAL STANDARD	VERIFIED	15:12
EXTERNAL STANDARD	0.080	15:12
BLANK TEST	0.000	15:13
SUBJECT SAMPLE	INCOMPLETE	15:15



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100343

Date: 08/10/2011
 Time: 15:26:45

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

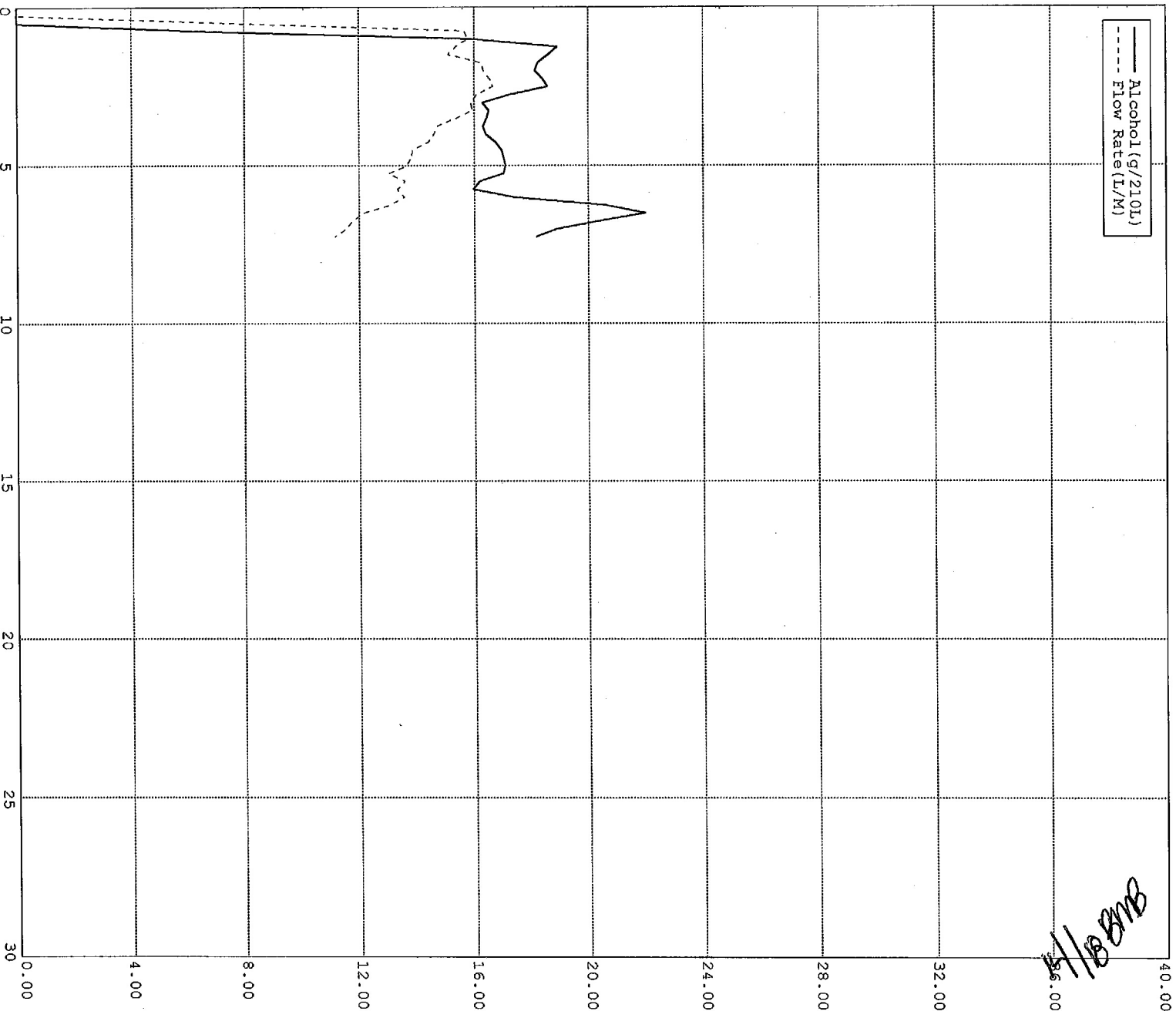
OPERATOR NAME:
 XXXX X XXXX
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 KNOWN NORTH ALCOHOL
 CASE/REPORT: XXSXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.97: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:28
BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:28
EXTERNAL STANDARD	0.080	15:28
BLANK TEST	0.000	15:29
SUBJECT SAMPLE	Invalid	15:29

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 8/10/2011

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 08/12/2011
 Time: 15:15:15

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

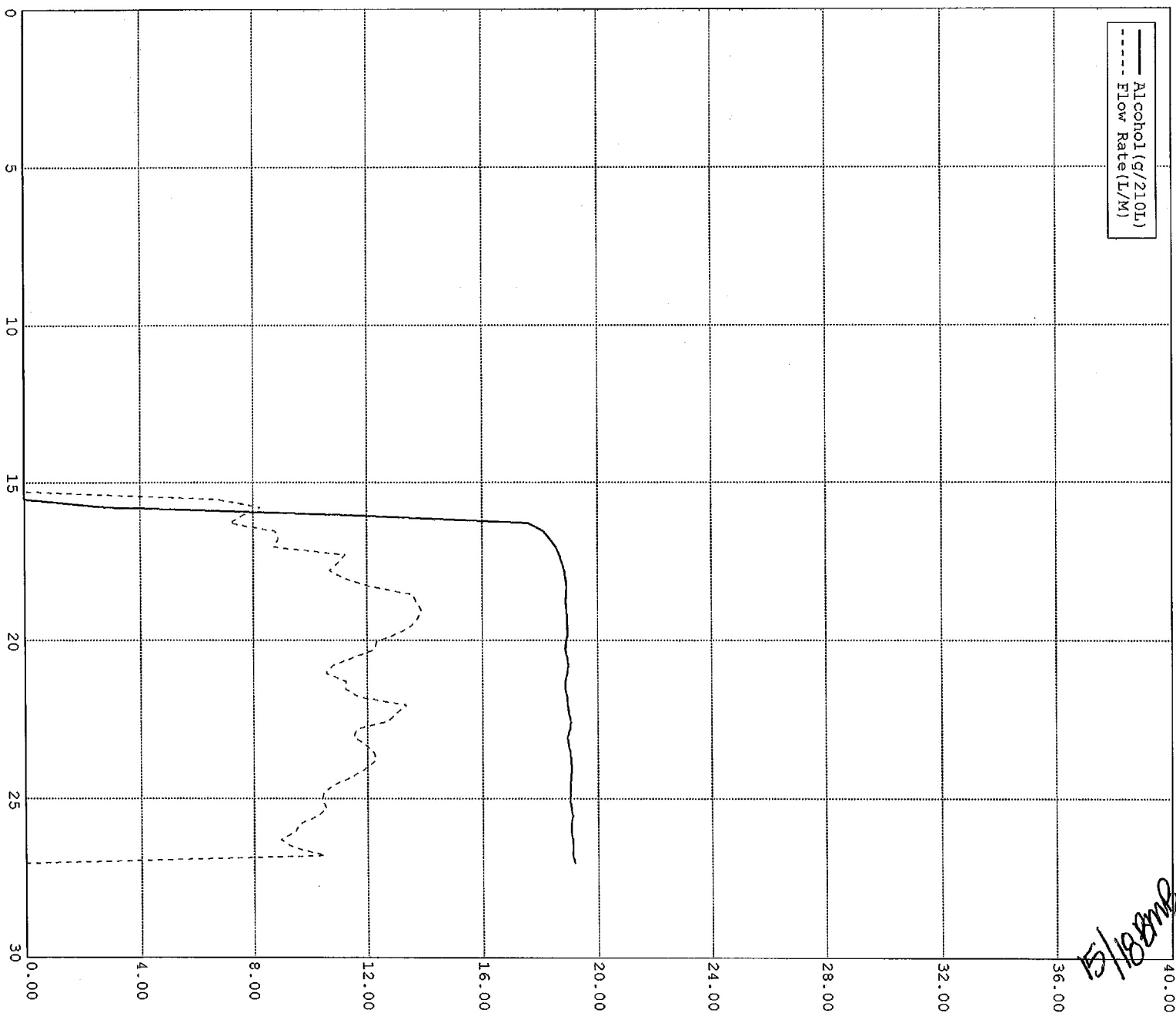
OPERATOR NAME:
 ETHANOL AND ACETONE
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:16
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.080	15:16
BLANK TEST	0.000	15:17
SUBJECT SAMPLE	INTERFERENCE	15:18

Boone



15/10/2011

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 08/12/2011
 Time: 15:20:15

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERE

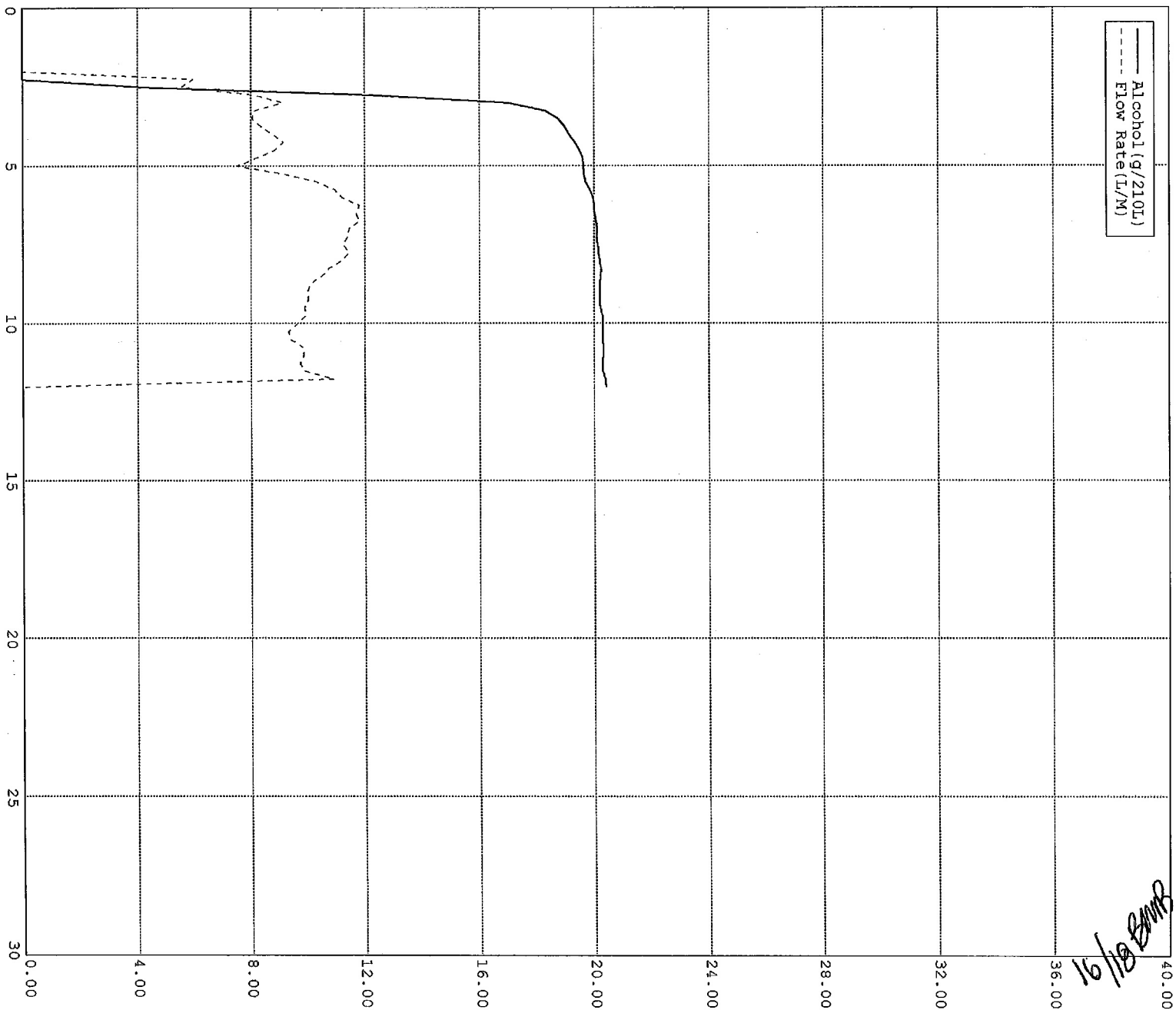
OPERATOR NAME:
 ETHANOL AND ISOPROPYL
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:21
BLANK TEST	0.000	15:21
INTERNAL STANDARD	VERIFIED	15:21
EXTERNAL STANDARD	0.080	15:21
BLANK TEST	0.000	15:22
SUBJECT SAMPLE	INTERFERENCE	15:22

FORM B



16/10/2011

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100343

Date: 08/12/2011
 Time: 10:32:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

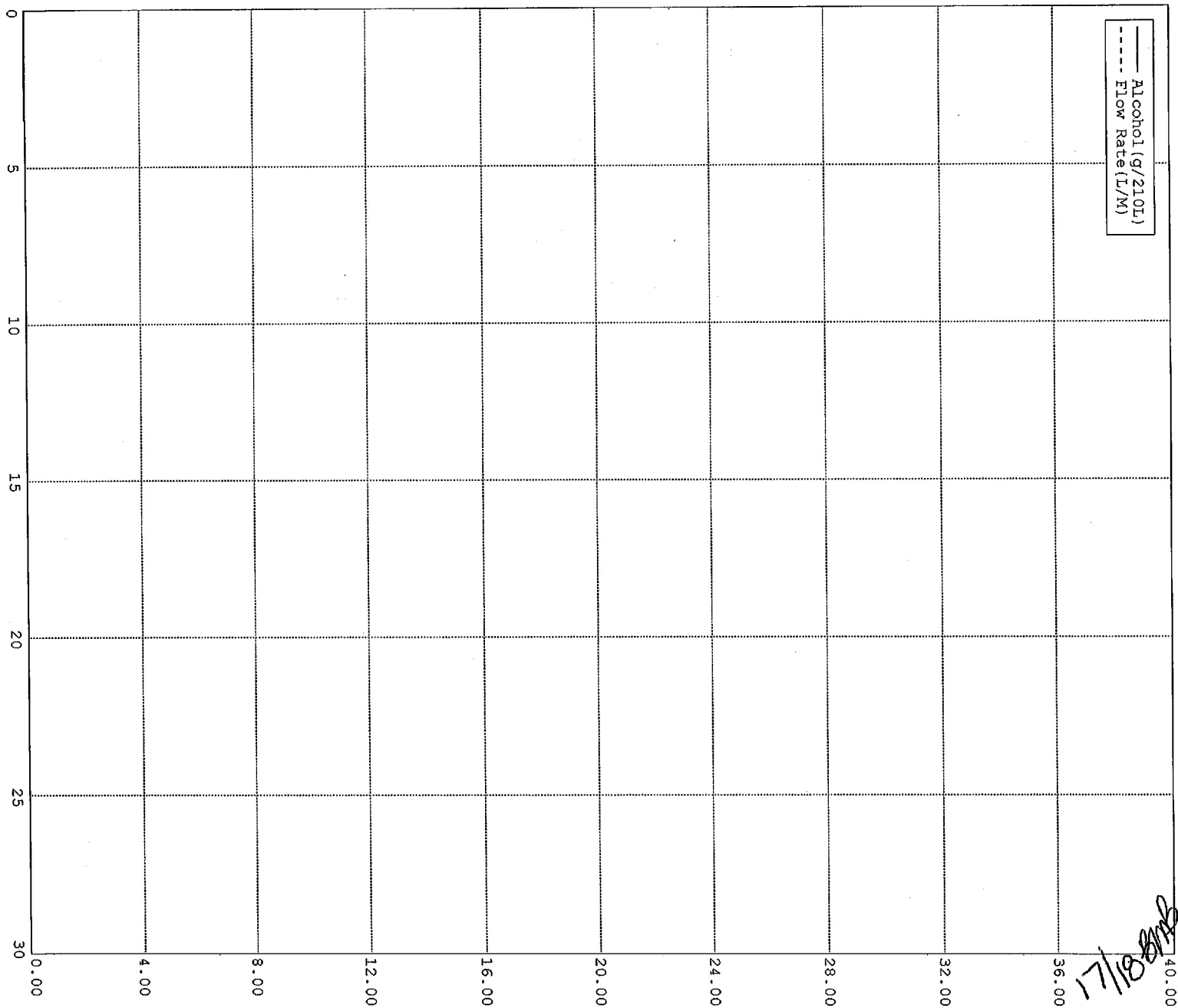
OPERATOR NAME:
 RADIO INTERFERE
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
 BLANK TEST PASSED 10:34
 INTERNAL STANDARD VERIFIED 10:34
 EXTERNAL STANDARD 0.080 10:35
 BLANK TEST 0.000 10:36

RFT Detected



08/17/11
 [Signature]

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100343

Date: 08/12/2011
 Time: 15:49:03

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

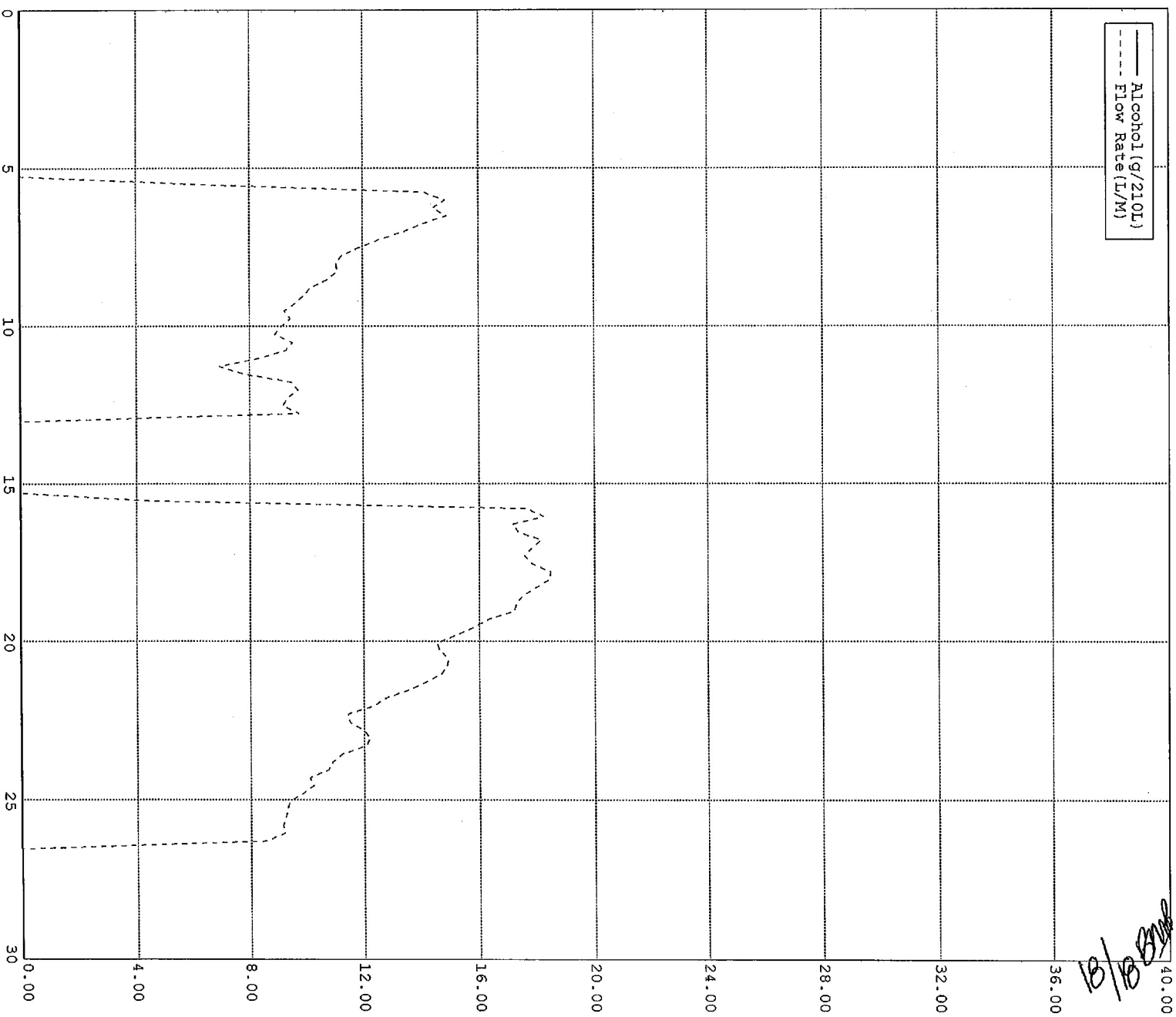
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.91: 0.079
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:50
BLANK TEST	0.000	15:50
INTERNAL STANDARD	VERIFIED	15:50
EXTERNAL STANDARD	0.080	15:50
BLANK TEST	0.000	15:51
SUBJECT SAMPLE	0.000	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.080	15:53
BLANK TEST	0.000	15:54

Handwritten signature: B. Barnett



Handwritten signature: B. Barnett