

	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 # 100352Analyst Brandi BarnettDate 3/11/11

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 02811020A1 Exp 02/01/2013
 - ii. 0.040g/210L Mnf ILMO Lot 02811040A2 Exp 02/01/2013
 - iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 01/01/2012
 - iv. 0.100g/210L Mnf ILMO Lot 05611060A2 Exp 03/01/2013
 - v. 0.200g/210L Mnf ILMO Lot 176110200A1 Exp 07/01/2012
 - vi. 0.300g/210L Mnf ILMO Lot 05611300A4 Exp 03/01/2013
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 10/18/2010 SN DR 6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/2011
 1. Simulator Calibration Date 8/4/2010 SN D+ 5D 1202
Bmg
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached)

1/18 BMB

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 03/11/2011
Time: 12:05:35

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 46.7°C	PASSED

PUMP INFO

Flow Rate = 5.112 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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BMB

Technician Screen

DATAMASTER dmt: 100352

Date: 03/11/2011
Time: 12:30 PM

Temperatures (°C)
Sample Cell: 49.0°C
Breath Tube: 45.7°C

Current Barometer 29.7 in
Volume (Ltr) 1.55

Settings
Lamp: 2.33 V
Bias: 79 V
Cooler: 1.91 V
Chopper: 543 Hz

Voltages (V)
Flow: 1.04 V
Detector: 0.591 V

3/18/11 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 03/02/2011
Time: 12:54:05

SUPERVISOR NAME:
BRANDI M BARNETT
CERTIFICATE #: 7038

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

Ca	=	0.1000		
CAL	=	0.959808	0.800	<= CAL < 1.200
b1	=	0.0007	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0003	0.0000	<= b3 < 0.0040
Xq	=	0.0824	0.0500	<= Xq < 0.2000
a21	=	1.146164	1.050	<= a21 < 1.300
a31	=	0.462023	0.300	<= a31 < 0.800

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SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 03/11/2011
 Time: 12:37:32

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

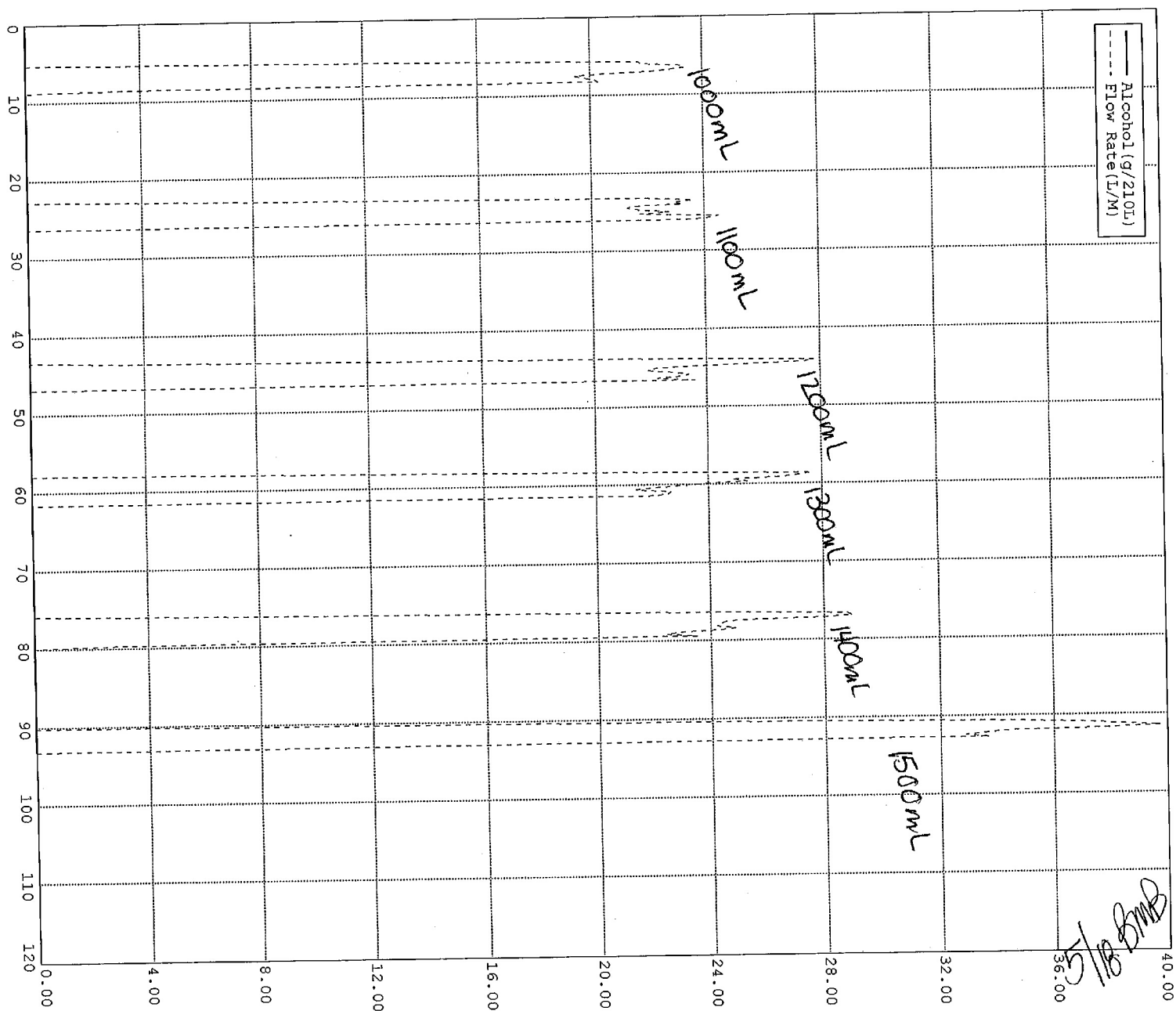
DEPT/AGENCY:
 XXXX
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.71: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

TEST TYPE	PASSED	VERIFIED	TIME
DIAGNOSTIC CHECK	0.000	12:38	
BLANK TEST	0.000	12:38	
INTERNAL STANDARD	0.079	12:39	
EXTERNAL STANDARD	0.000	12:40	
BLANK TEST	0.000	12:41	
SUBJECT SAMPLE	0.000	12:42	
BLANK TEST	0.078	12:42	
EXTERNAL STANDARD	0.000	12:43	
BLANK TEST	0.000	12:43	

BMB



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

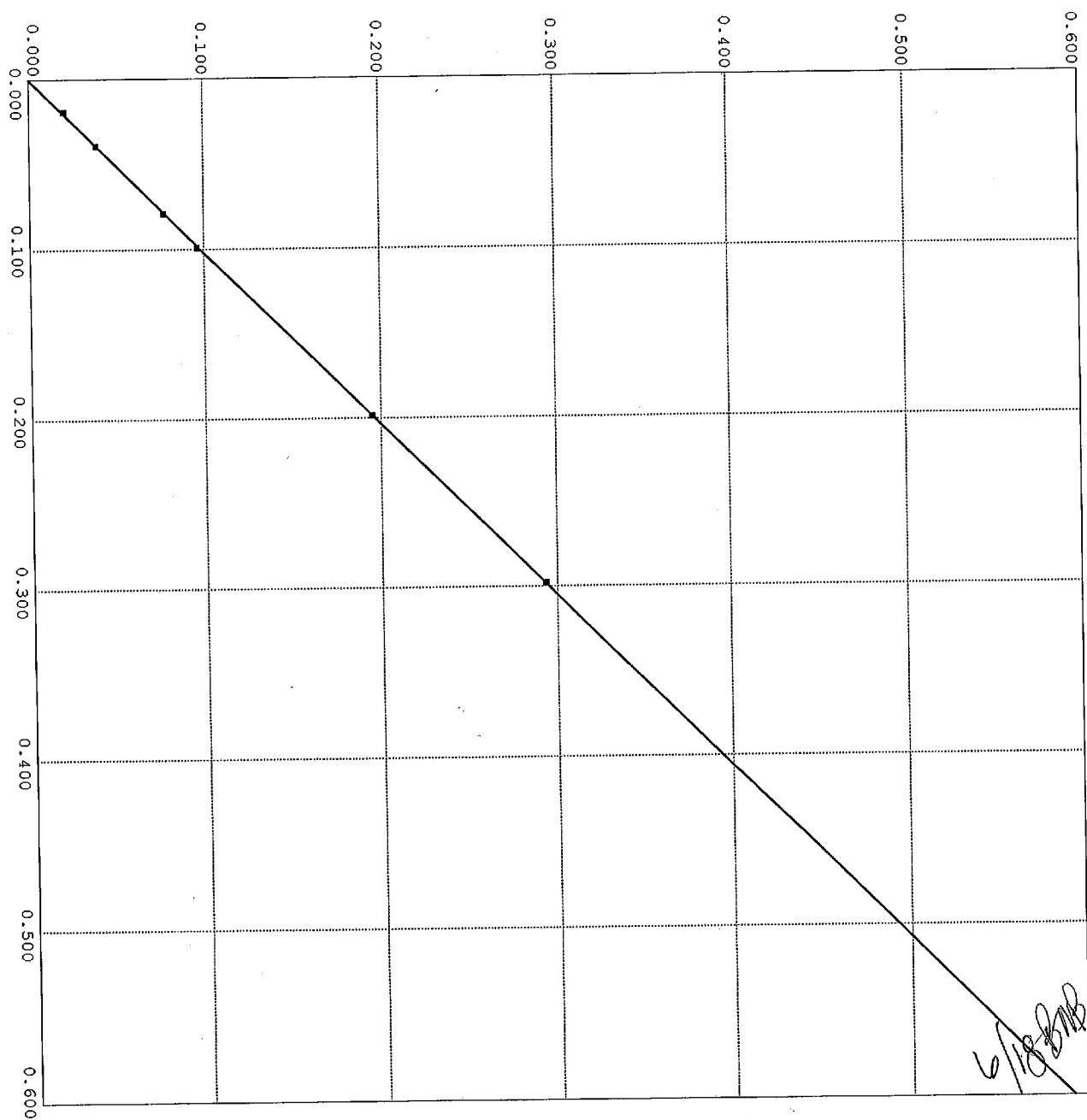
Date: 03/11/2011
 Time: 12:58:43

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

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0384	0.0009
0.079	0.0774	0.0009
0.099	0.0968	0.0011
0.198	0.1958	0.0004
0.297	0.2938	0.0011

SLOPE = 0.987863
 R^2 = 0.999967

Brandi Barnett



LINEARITY CHECK: Control Test 1

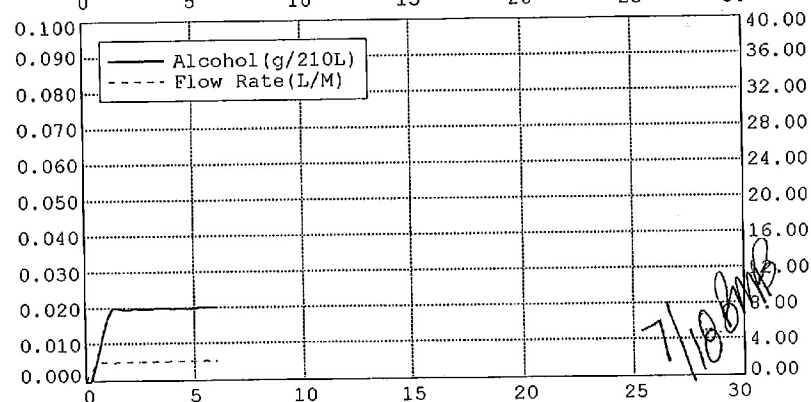
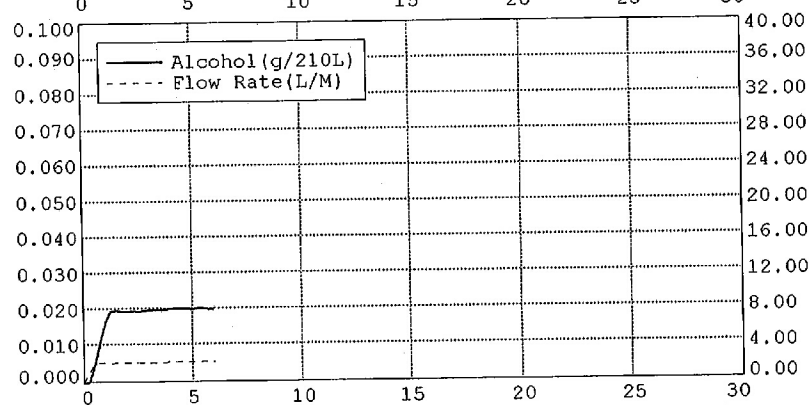
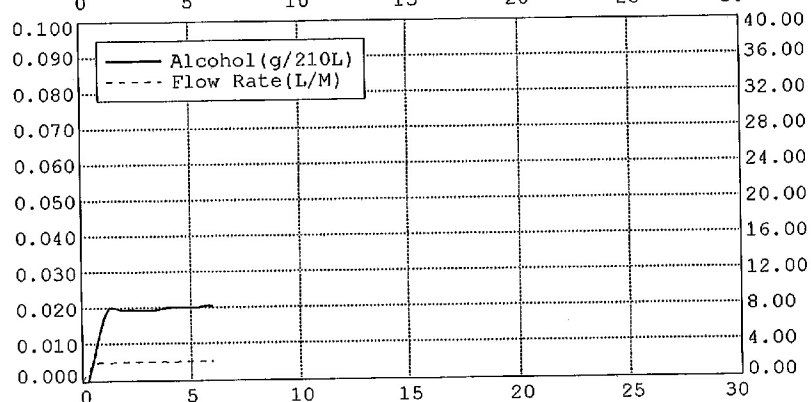
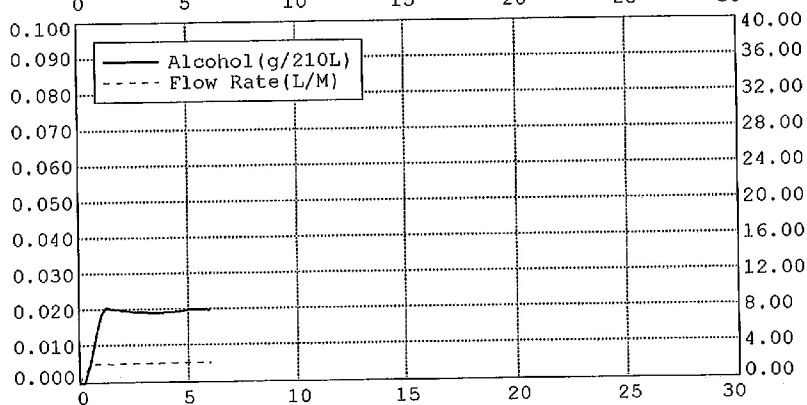
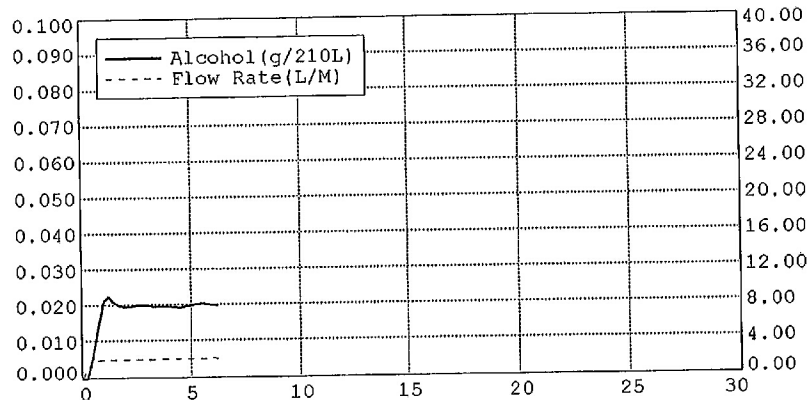
Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 03/11/2011
Time: 12:58:45

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.020
TARGET AT 29.71: 0.019
LOT #: 02811020A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	12:59
INTERNAL STANDARD	VERIFIED	12:59
EXTERNAL STANDARD	0.020	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.020	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.020	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.020	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.021	13:04
BLANK TEST	0.000	13:05

Average = 0.0202
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

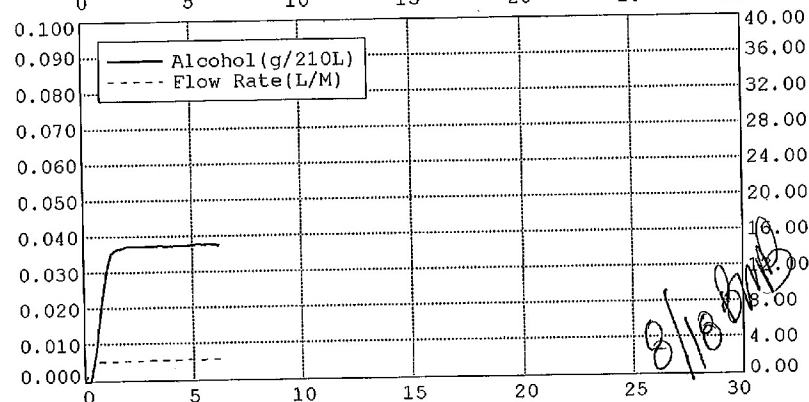
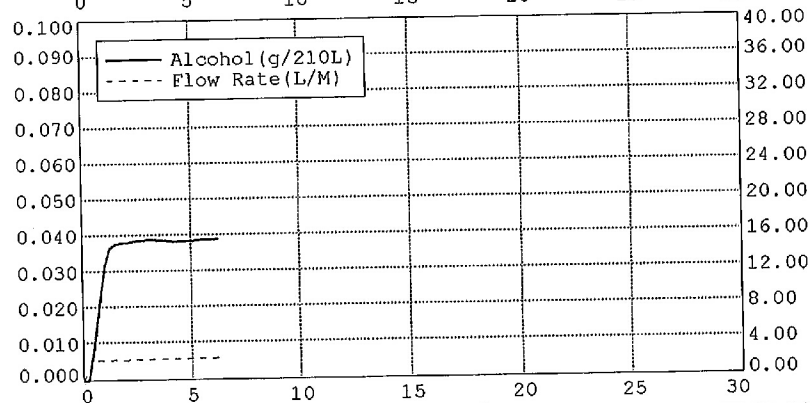
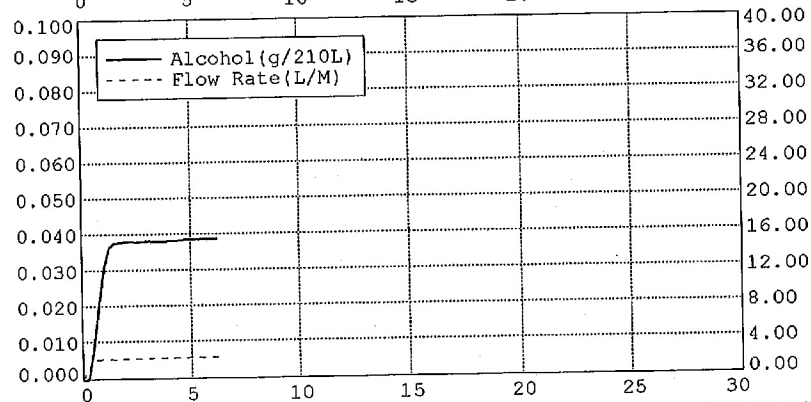
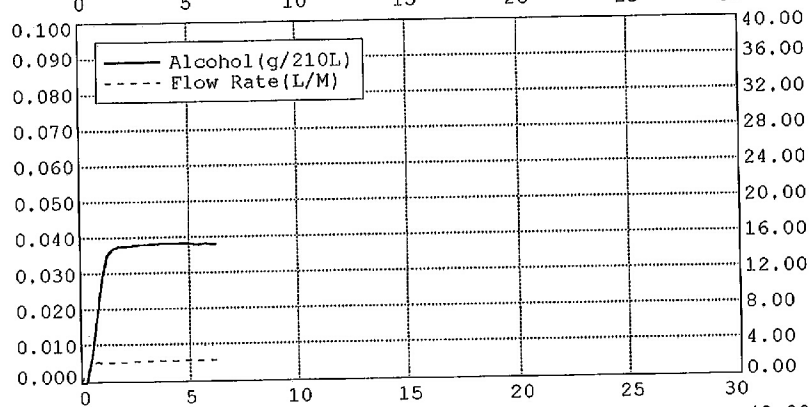
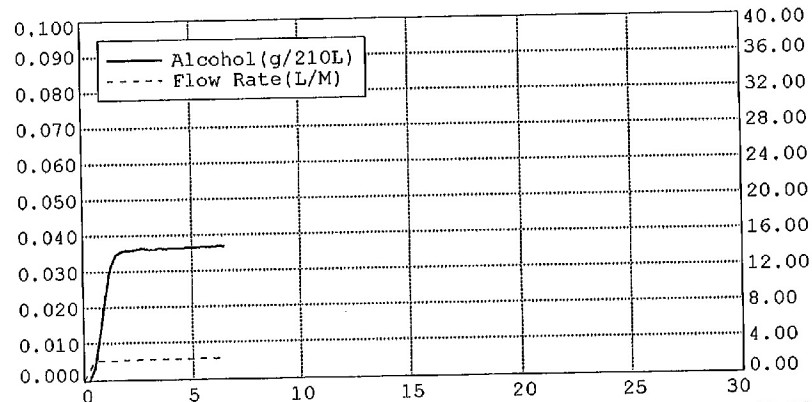
Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 03/11/2011
Time: 13:08:44

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.71: 0.039
LOT #: 02811040A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	13:09
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.037	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.039	13:11
BLANK TEST	0.000	13:12
EXTERNAL STANDARD	0.039	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.039	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.038	13:14
BLANK TEST	0.000	13:15

Average = 0.0384
Std Dev = 0.0009



LINEARITY CHECK: Control Test 3

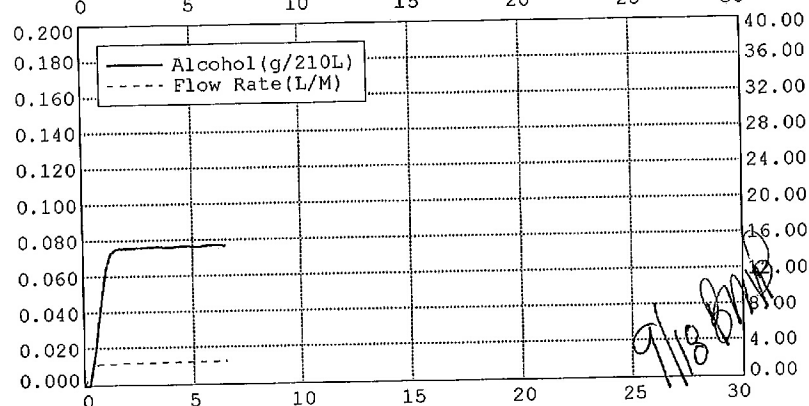
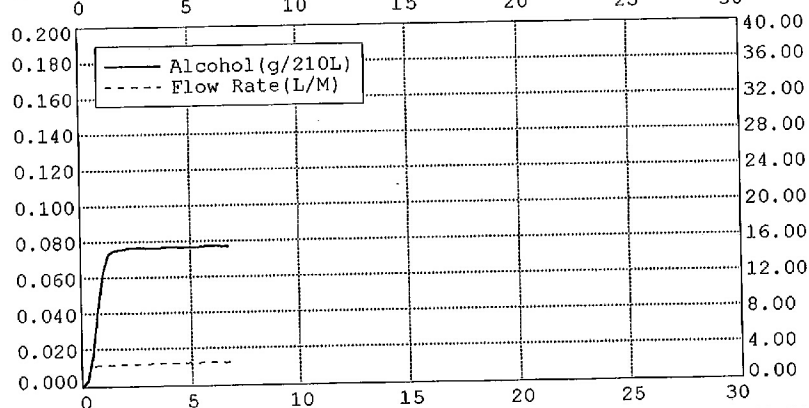
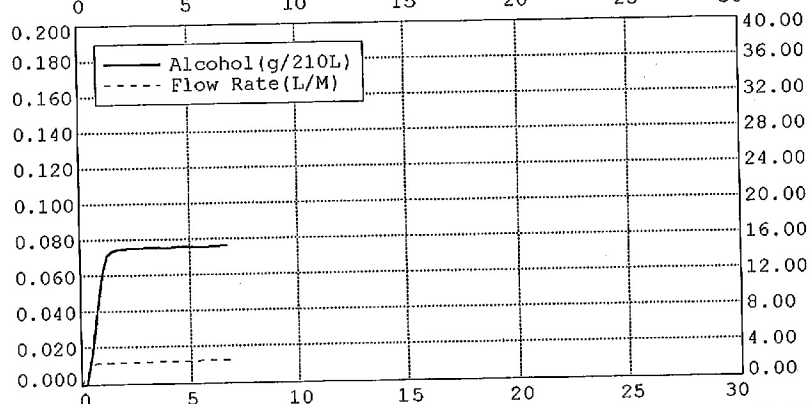
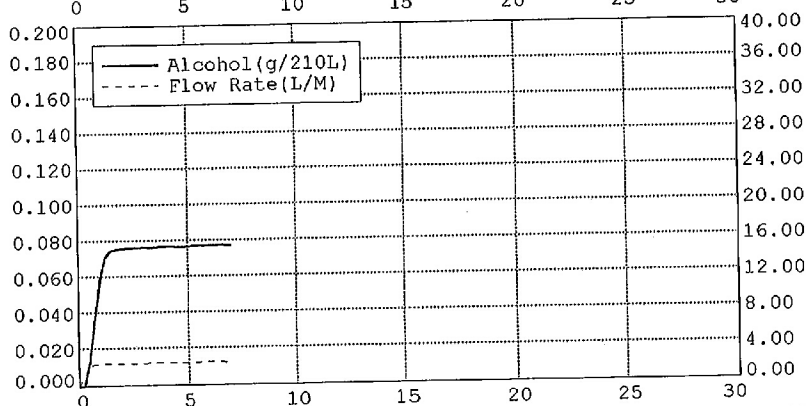
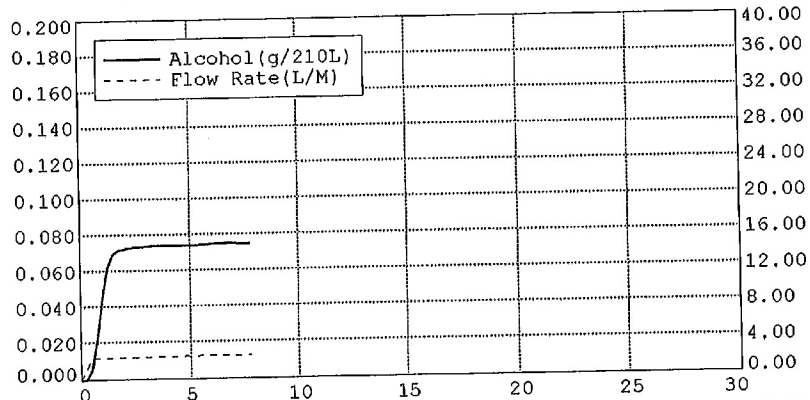
Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 03/11/2011
Time: 13:19:21

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.71: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:21
INTERNAL STANDARD	VERIFIED	13:21
EXTERNAL STANDARD	0.076	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.078	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.077	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.078	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.078	13:25
BLANK TEST	0.000	13:26

Average = 0.0774
Std Dev = 0.0009



LINEARITY CHECK: Control Test 4

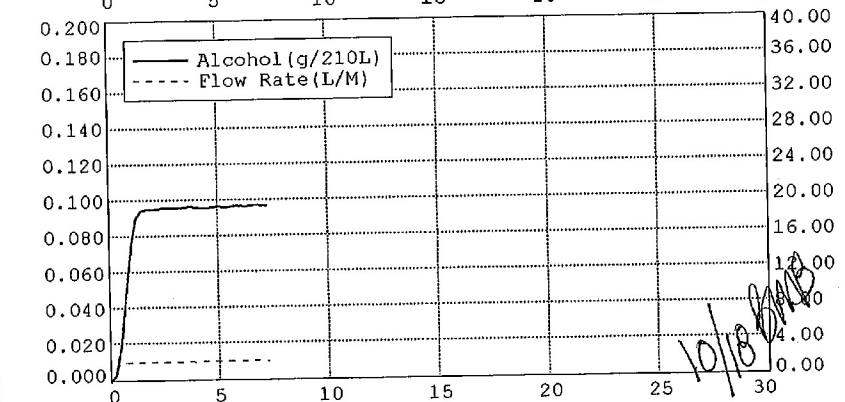
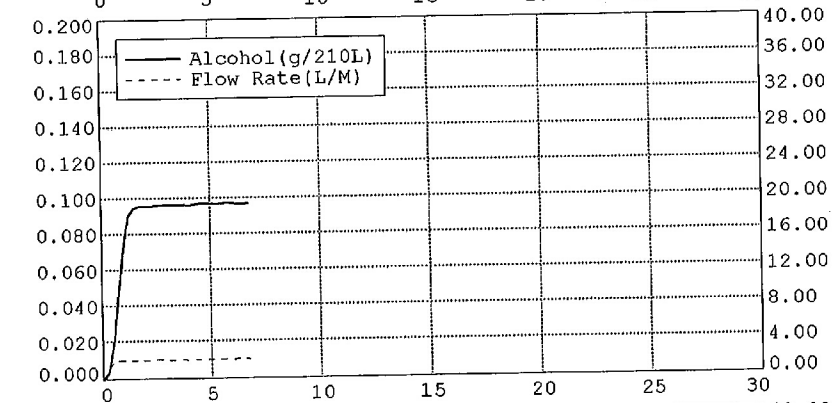
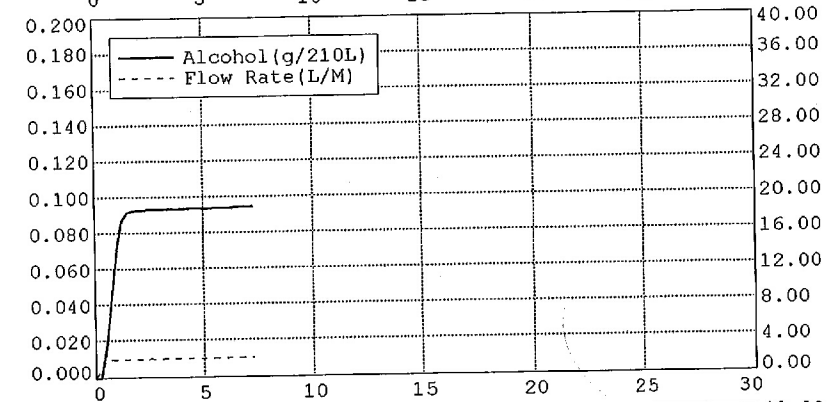
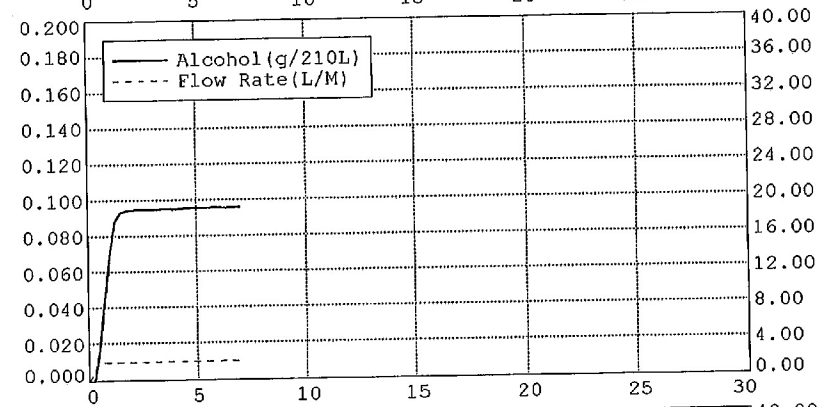
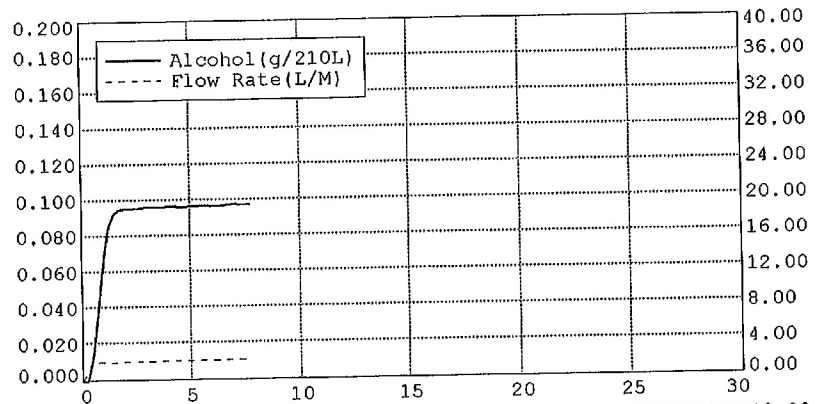
Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 03/11/2011
Time: 13:37:12

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.71: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:38
INTERNAL STANDARD	VERIFIED	13:38
EXTERNAL STANDARD	0.098	13:38
BLANK TEST	0.000	13:39
EXTERNAL STANDARD	0.097	13:39
BLANK TEST	0.000	13:40
EXTERNAL STANDARD	0.095	13:40
BLANK TEST	0.000	13:41
EXTERNAL STANDARD	0.097	13:42
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.097	13:43
BLANK TEST	0.000	13:44

Average = 0.0968
Std Dev = 0.0011



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100352

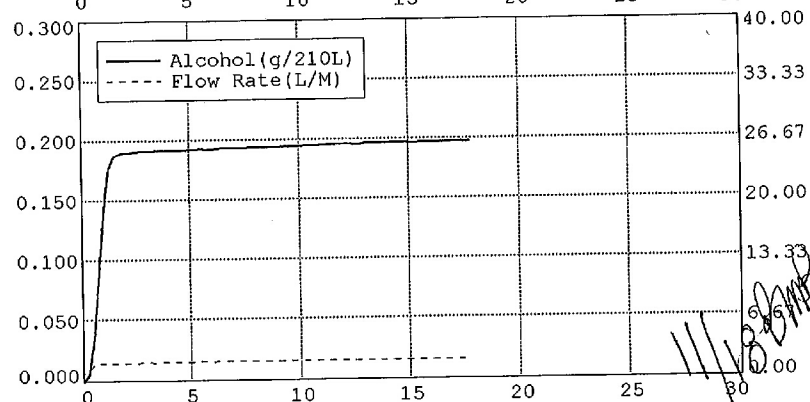
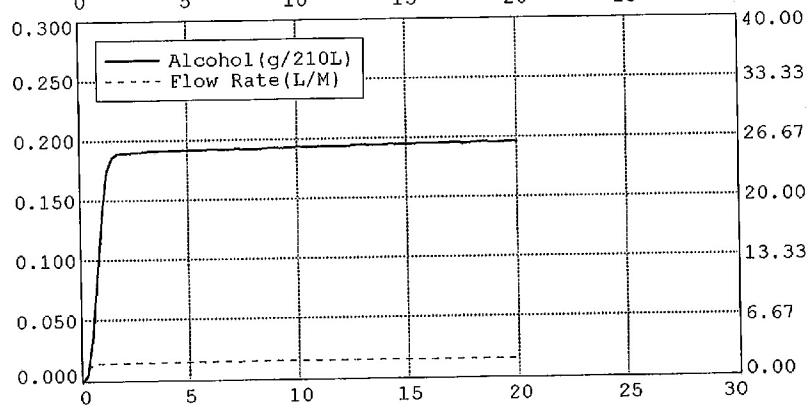
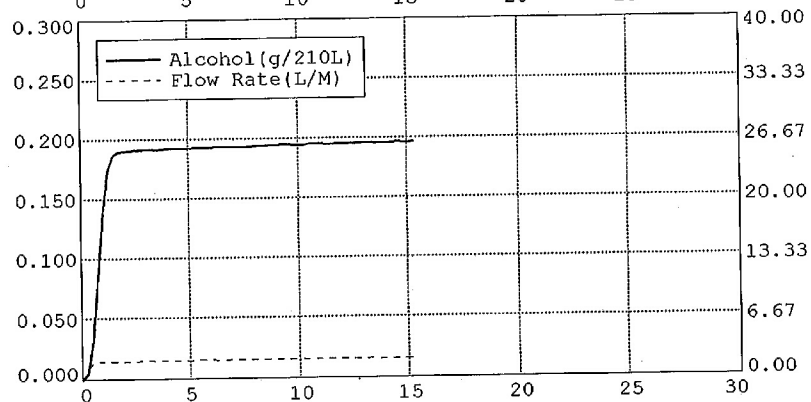
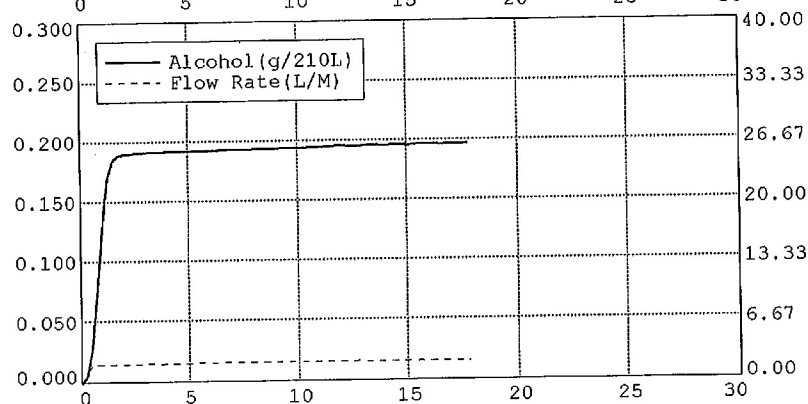
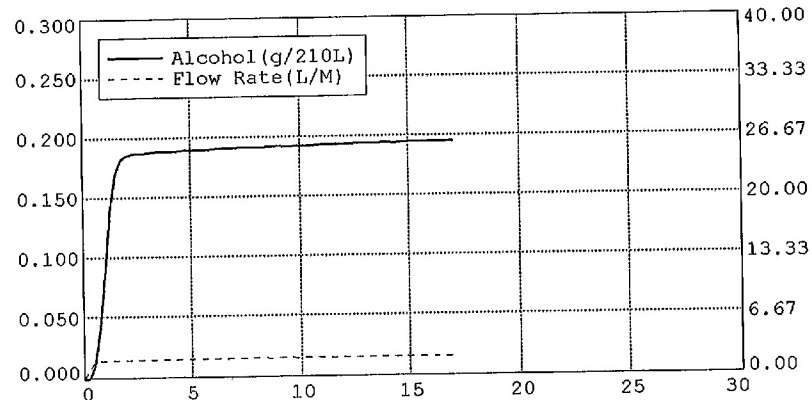
Date: 03/11/2011
Time: 13:50:17

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.70: 0.198
LOT #: 176110200A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	13:51
INTERNAL STANDARD	VERIFIED	13:51
EXTERNAL STANDARD	0.195	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.196	13:53
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.196	13:54
BLANK TEST	0.000	13:55
EXTERNAL STANDARD	0.196	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.196	13:57
BLANK TEST	0.000	13:58

Average = 0.1958
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100352

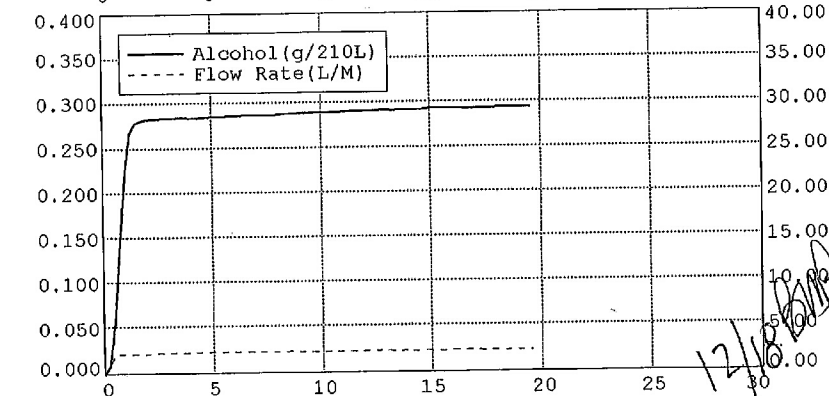
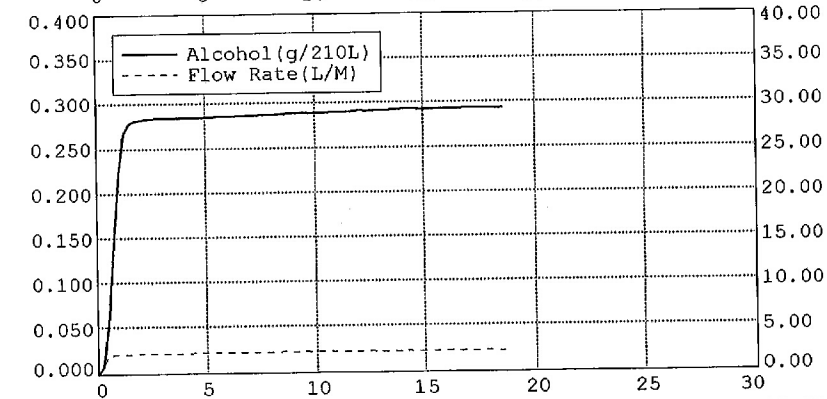
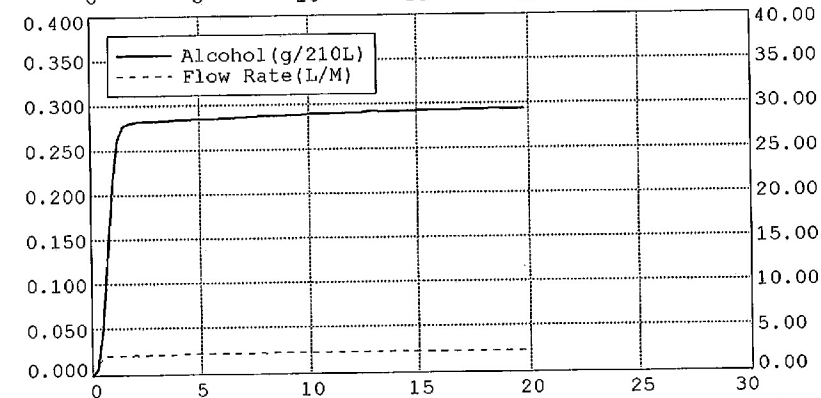
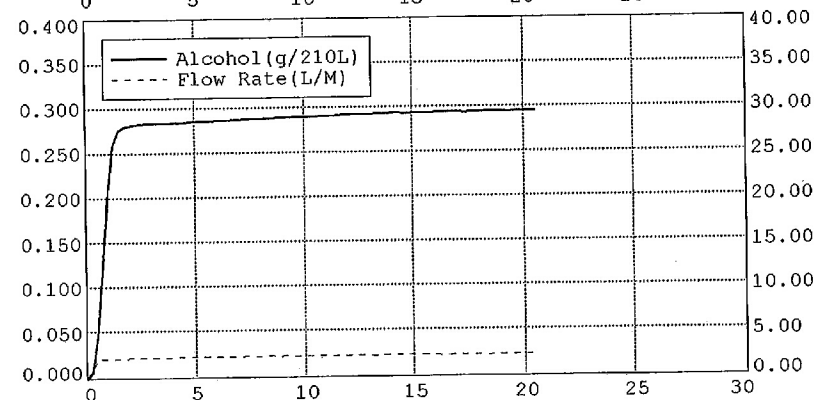
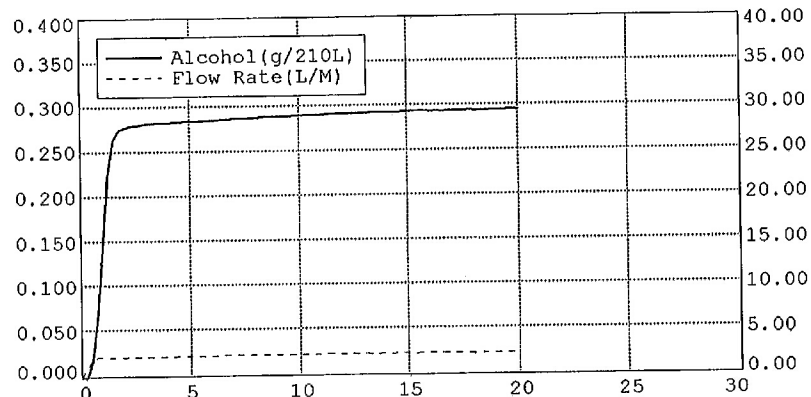
Date: 03/11/2011
Time: 14:28:05

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.70: 0.297
LOT #: 05611300A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.295	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.295	14:31
BLANK TEST	0.000	14:32
EXTERNAL STANDARD	0.293	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.293	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.293	14:35
BLANK TEST	0.000	14:36

Average = 0.2938
Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 03/11/2011
 Time: 14:48:06

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

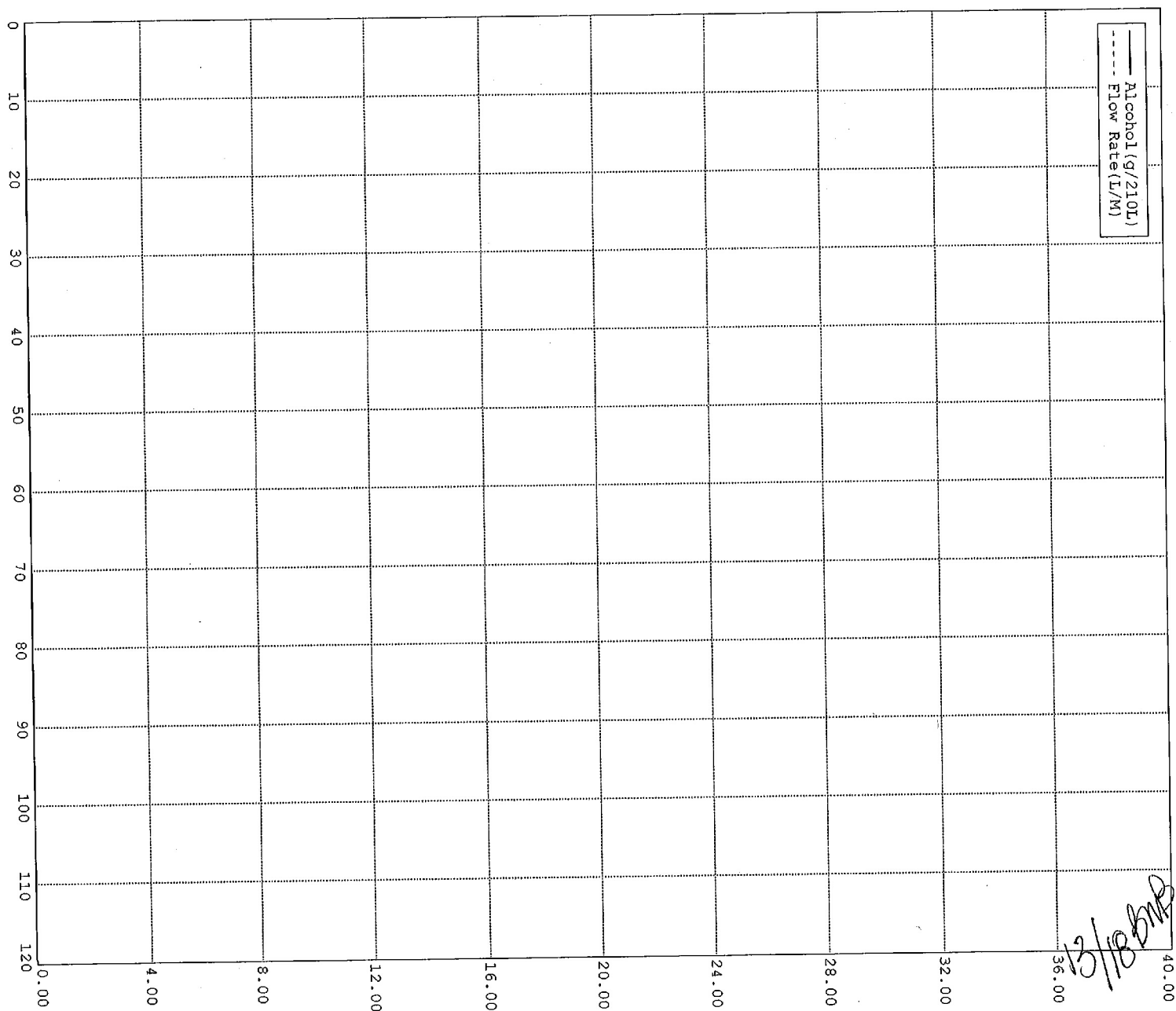
OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

DEPT/AGENCY:
 FLOW SENSOR ABORT
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.70: 0.079
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:50
BLANK TEST	0.000	14:50
INTERNAL STANDARD	VERIFIED	14:50
EXTERNAL STANDARD	0.077	14:50
BLANK TEST	0.000	14:51
SUBJECT SAMPLE	INCOMPLETE	14:53

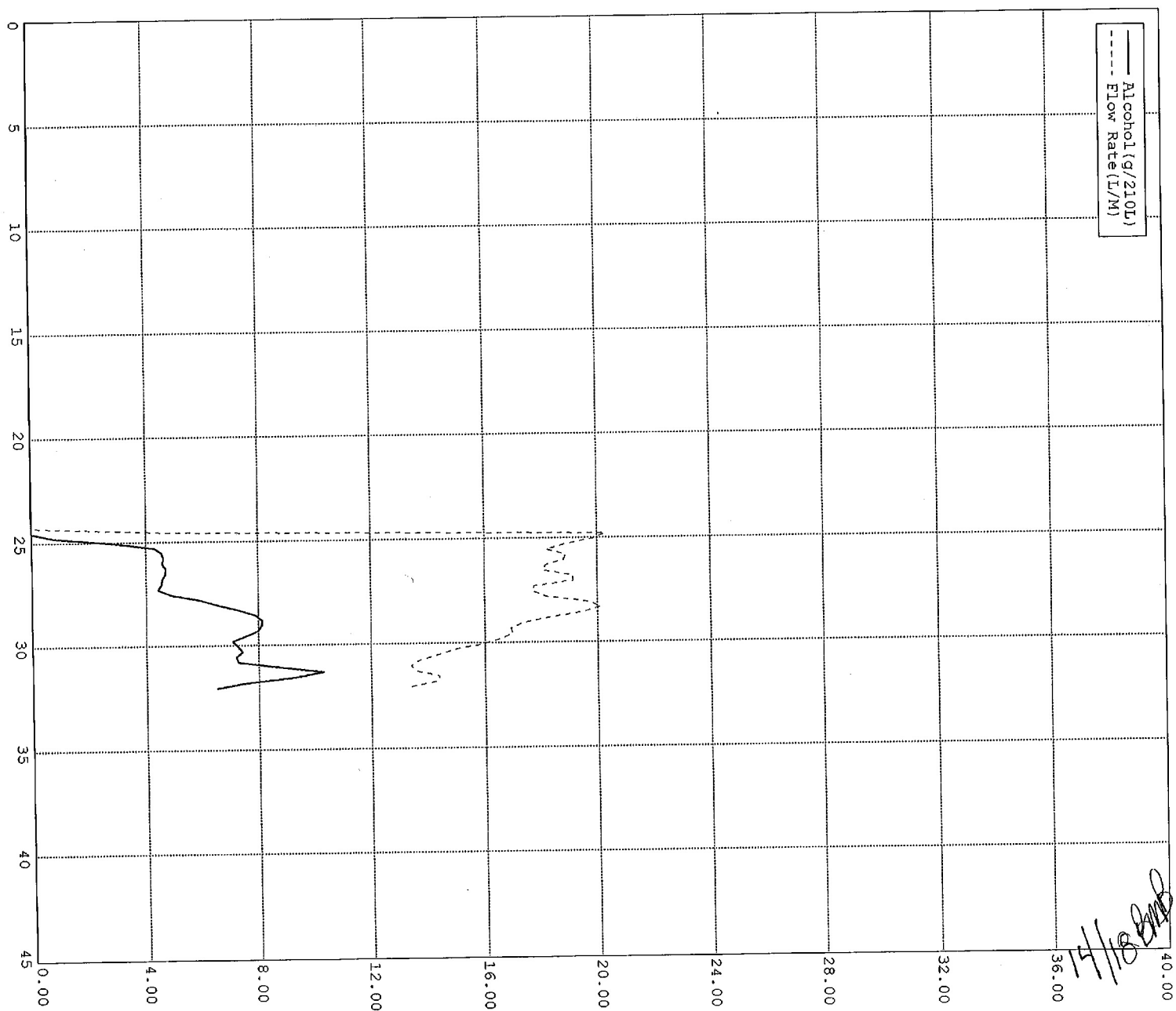
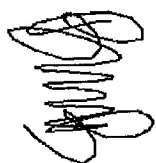
BM



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100352Date: 03/11/2011
Time: 15:24:20SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.68: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.079	15:26
BLANK TEST	0.000	15:27
SUBJECT SAMPLE	Invalid	15:28



ECT TEST

ka Department of Public Safety
MASTER dnt: 100352

: 03/14/2011
: 07:57:22

ECT NAME:

TEST
NSE #: INTERFERE

ATOR NAME:
NOT AND ACETONE
ATOR'S #: XXXX

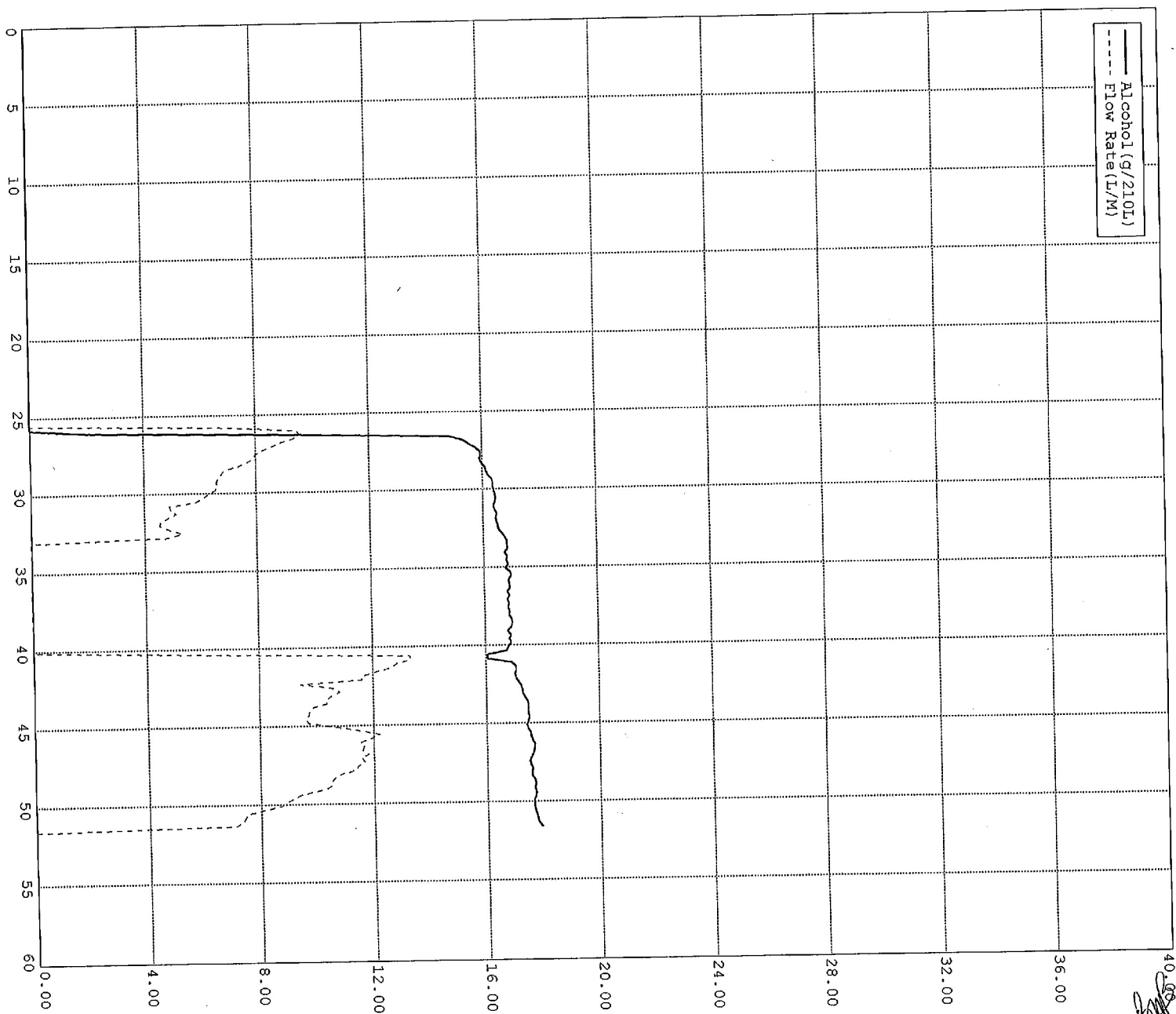
/AGENCY:
X
/REPORT: XXXX
TYPE: TEST

RNAL STANDARD INFORMATION

NAL: 0.080
ET AT 29.25: 0.078
#: 33609080A1
RATION: 01/01/2012

NOSTIC CHECK	PASSED	07:58
K TEST	0.000	07:58
RNAL STANDARD	VERIFIED	07:58
RNAL STANDARD	0.078	07:59
K TEST	0.000	07:59
ECT SAMPLE	INTERFERENCE	08:00

Handwritten signature/initials.



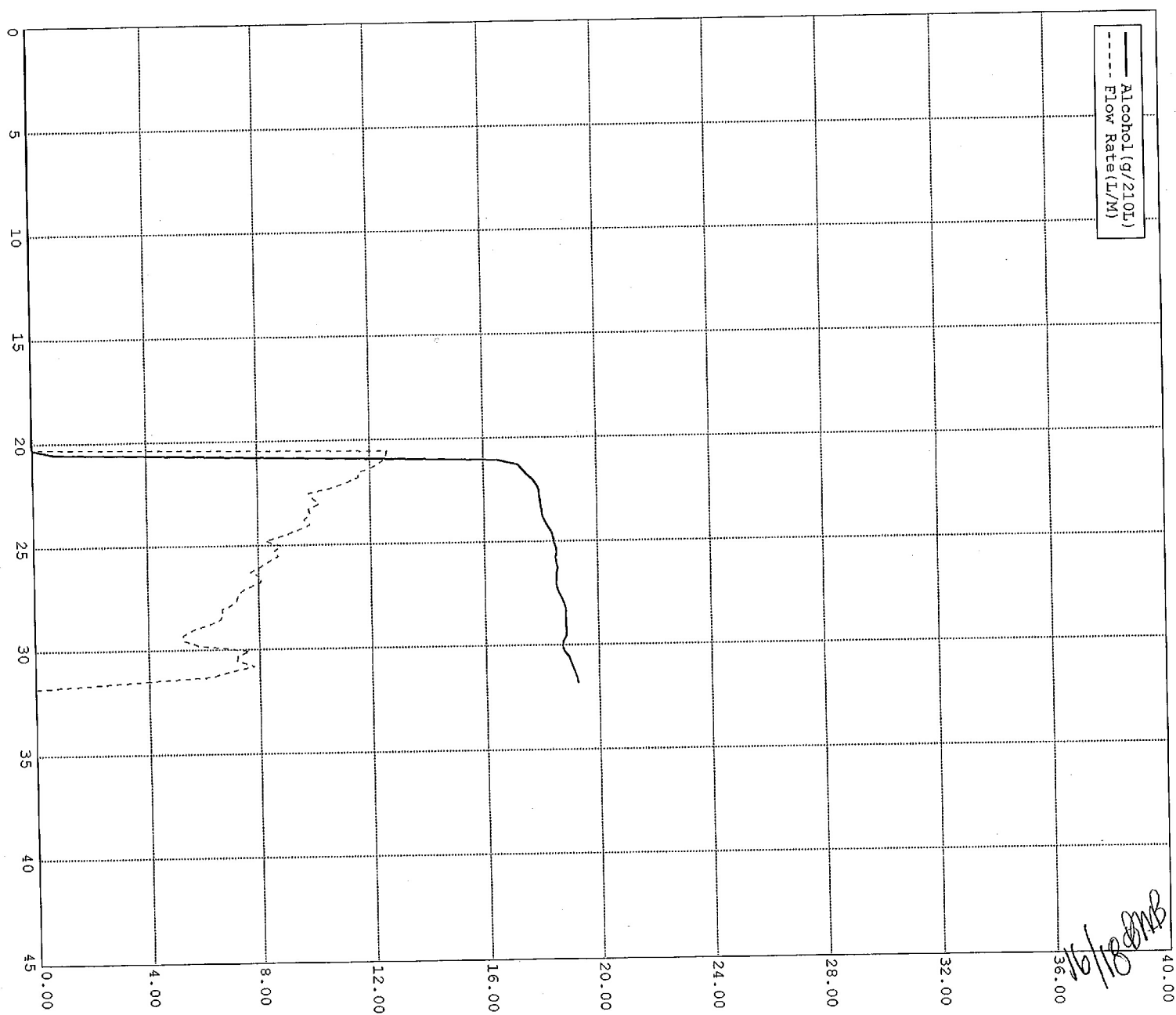
15/10/2011

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100352Date: 03/14/2011
Time: 08:04:02SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
ETHANOL AND ISOPROPANOL
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.25: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:05
BLANK TEST	0.000	08:05
INTERNAL STANDARD	VERIFIED	08:05
EXTERNAL STANDARD	0.078	08:06
BLANK TEST	0.000	08:07
SUBJECT SAMPLE	INTERFERENCE	08:07

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 03/11/2011
Time: 14:44:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RADIO FREQUENCY
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.70: 0.079
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:45
BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45

RFI Detected

17/10 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 03/14/2011
 Time: 08:42:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

DEPT/AGENCY:
 NON-DRINKING SUBJECT TEST
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.25: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	08:43
BLANK TEST	0.000	08:44
INTERNAL STANDARD	VERIFIED	08:44
EXTERNAL STANDARD	0.078	08:44
BLANK TEST	0.000	08:45
SUBJECT SAMPLE	0.000	08:45
BLANK TEST	0.000	08:46
EXTERNAL STANDARD	0.075	08:46
BLANK TEST	0.000	08:47

Handwritten signature/initials

