

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012
Effective: 01/27/2012

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100348Analyst Brandi BarnettStart Date 3/7/12

Ran 2.00 + USB Fixer, verified rear venting BMB 3/7/12

Diagnostic 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 1400 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 02511080A2 Exp 02/01/2013iv. 0.100g/210L Mnf ILMO Lot 05611001A2 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/20131. Simulator S/N SD1176 Date Calibrated 8/17/2011vi. 0.300g/210L Mnf Guth Lot 1110 Exp 7/13/20131. Simulator S/N SD1202 Date Calibrated 8/17/2011

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 10/17/20121. Simulator S/N DRL6267 Date Calibrated 01/10/2012 11/17/2012 BMBd. 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 AAAEnd Date 3/8/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/07/2012
Time: 10:57:23

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 45.7°C	PASSED

PUMP INFO

Flow Rate = 4.784 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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2/18 BMB

Technician Screen

DATAMASTER dmt: 100348

Date: 03/07/2012

Time: 11:13 AM

Temperatures (°C)

Sample Cell: 48.8°C

Breath Tube: 45.6°C

Current Barometer 29.8 in

Volume (Ltr) 1.56

Settings

Lamp: 2.11 V

Bias: 80 V

Cooler: 1.71 V

Chopper: 544 Hz

Voltages (V)

Flow: 1.04 V

Detector: -0.048 V

3/18/12 BNB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 01/10/2011
Time: 16:15:44

Ca	=	0.1000		
CAL	=	0.978945	0.800	<= CAL < 1.200
b1	=	0.0003	0.0000	<= b1 < 0.0040
b2	=	0.0040	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0862	0.0500	<= Xq < 0.2000
a21	=	1.182472	1.050	<= a21 < 1.300
a31	=	0.519808	0.300	<= a31 < 0.800

4/18/08 MB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/07/2012
Time: 11:15:12

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

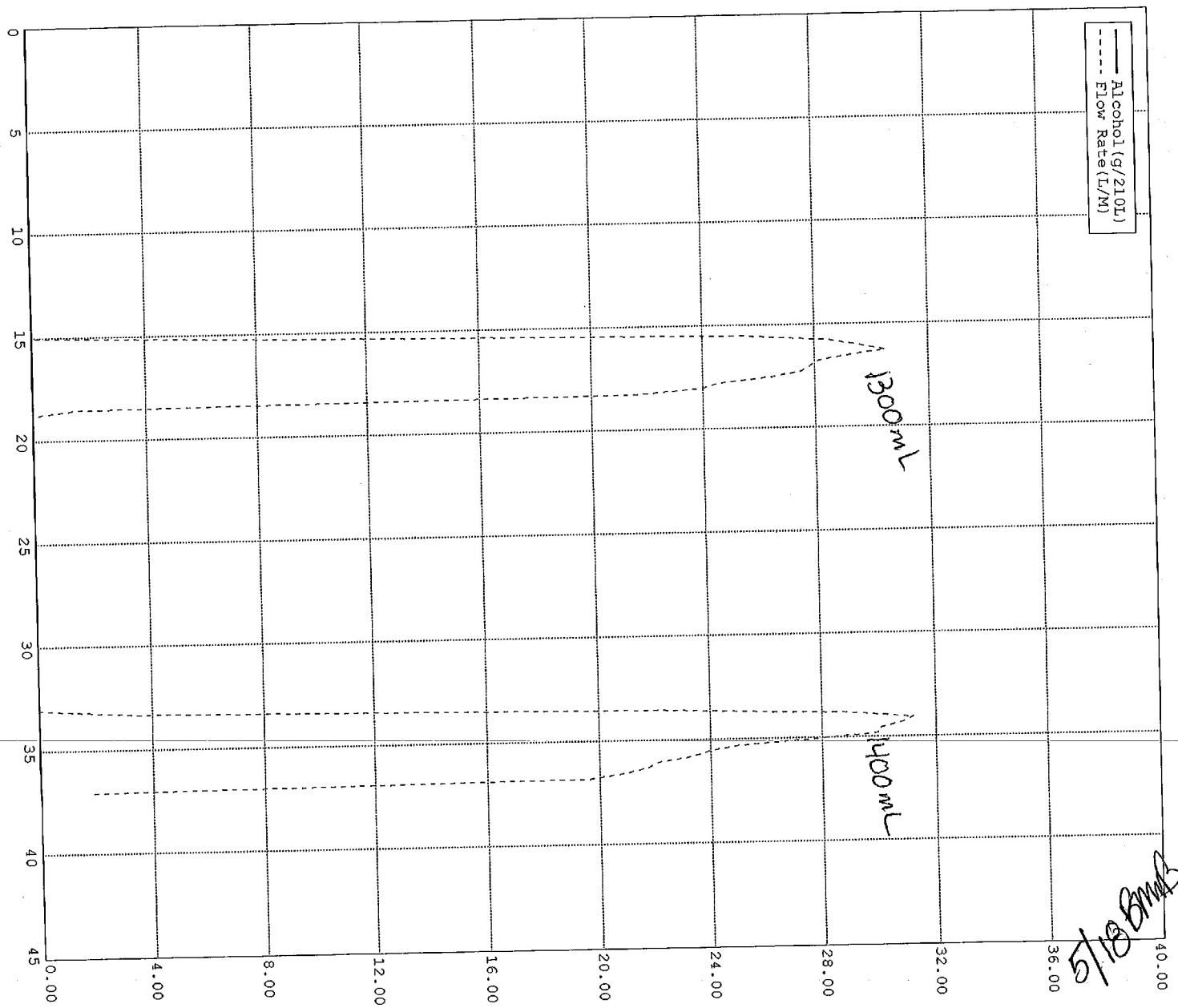
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.80: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 11:16
INTERNAL STANDARD	0.000 11:16
EXTERNAL STANDARD	VERIFIED 11:17
BLANK TEST	0.080 11:17
BLANK TEST	0.000 11:18
SUBJECT SAMPLE	0.000 11:18
BLANK TEST	0.000 11:19
EXTERNAL STANDARD	0.079 11:20
BLANK TEST	0.000 11:20

Brandi



Brandi Barnett
3/8/12

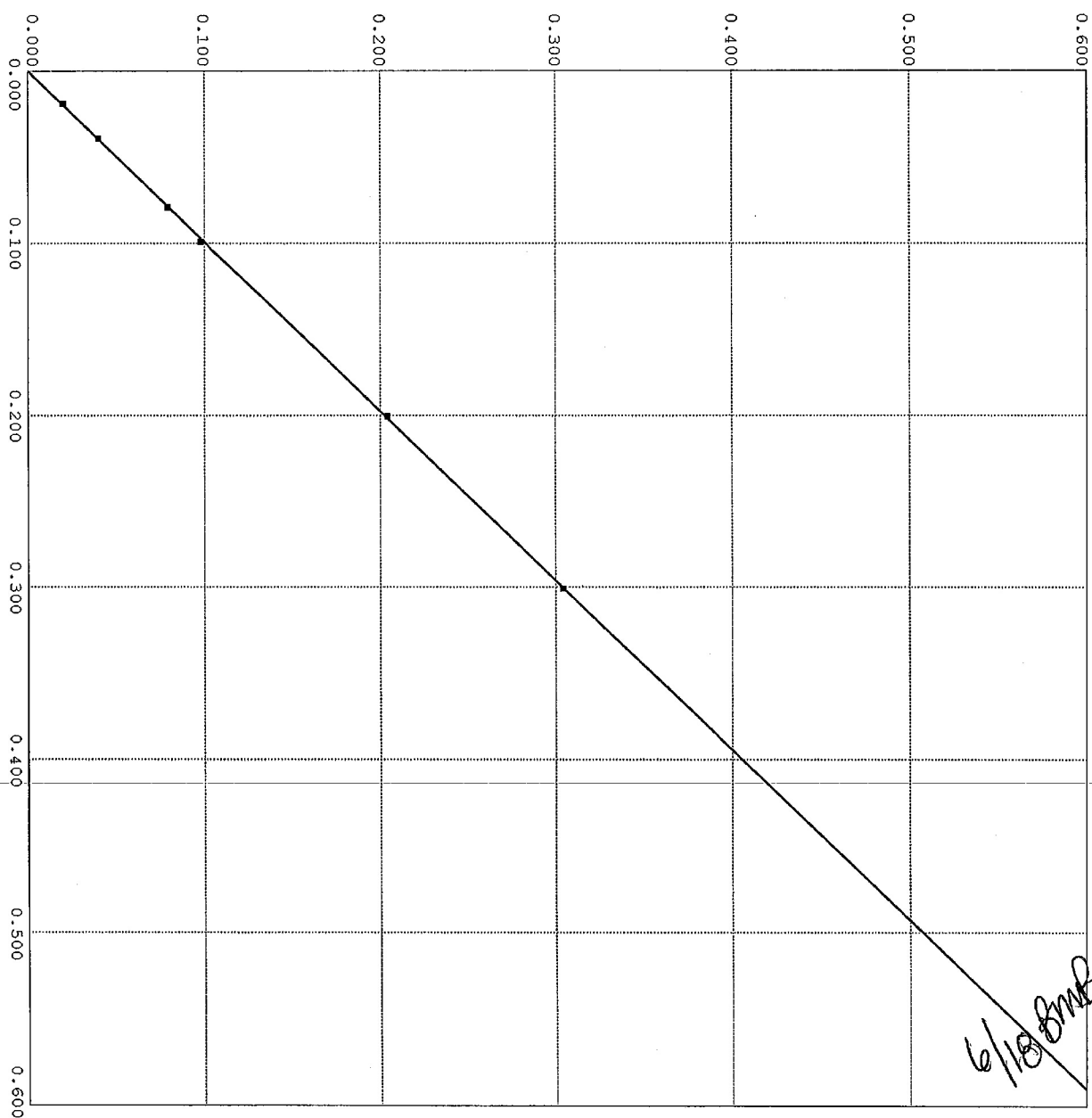
LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100348Date: 03/07/2012
Time: 11:28:21SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0003
0.039	0.0405	0.0003
0.079	0.0800	0.0003
0.099	0.0989	0.0001
0.200	0.2051	0.0007
0.300	0.3050	0.0005

SLOPE = 1.016717
 R^2 = 0.999871

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100348

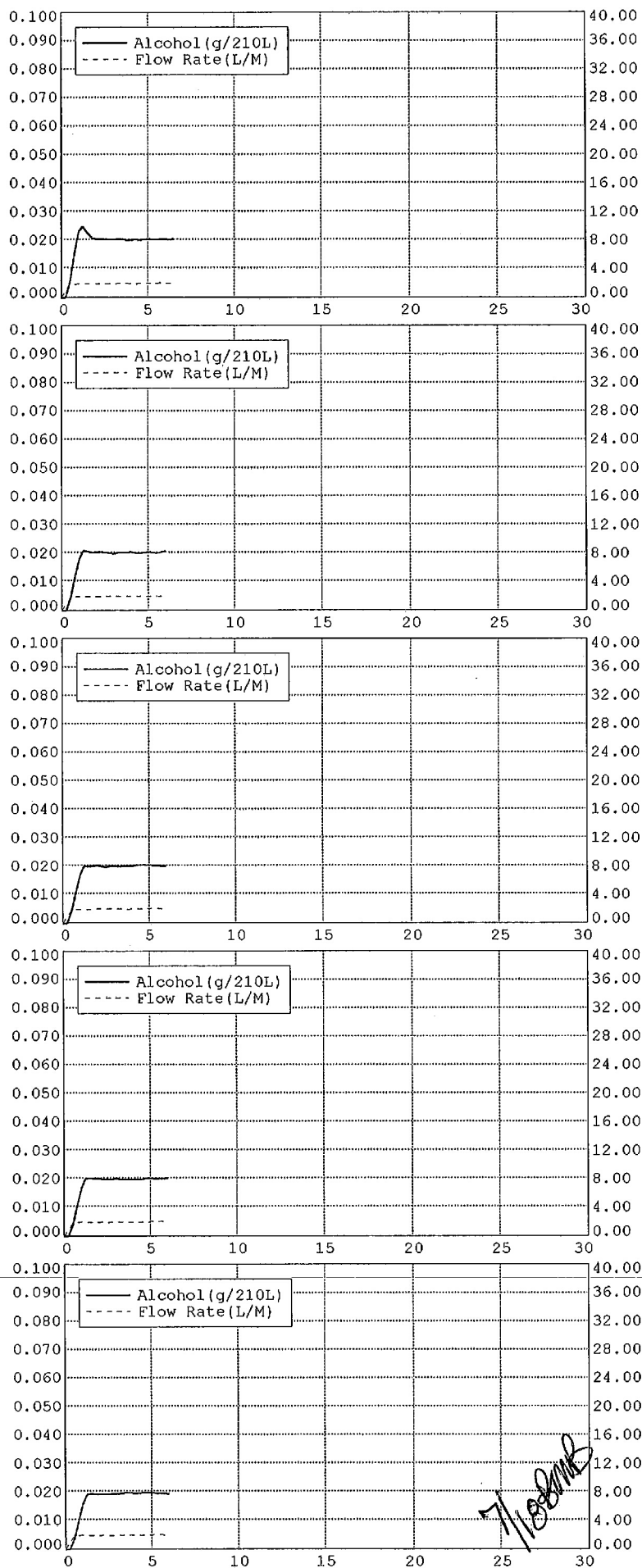
Date: 03/07/2012
Time: 11:28:23

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.80: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.020	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.020	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.020	11:32
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.020	11:33
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.019	11:34
BLANK TEST	0.000	11:35

Average = 0.0204
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100348

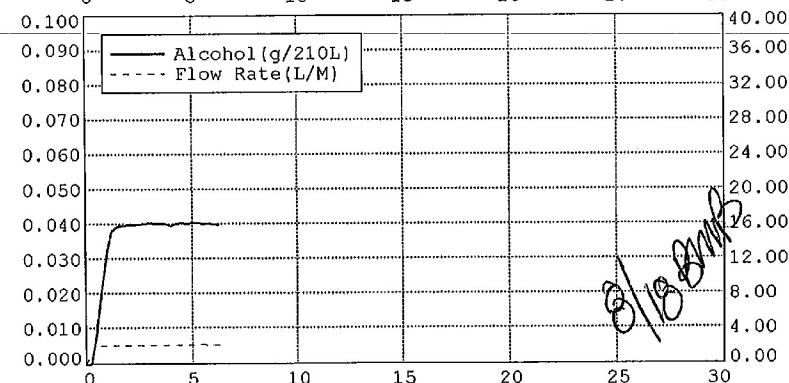
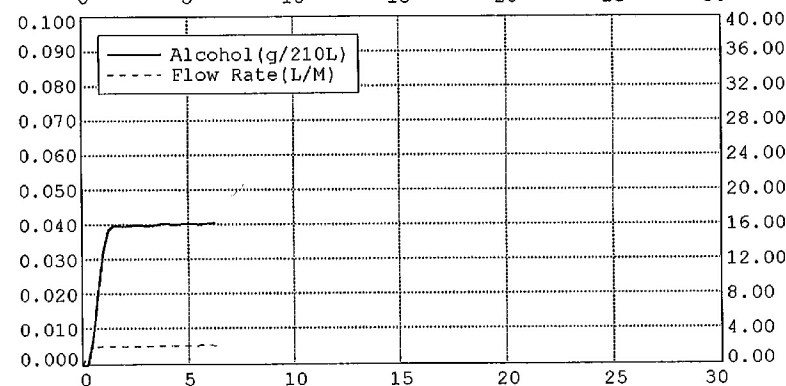
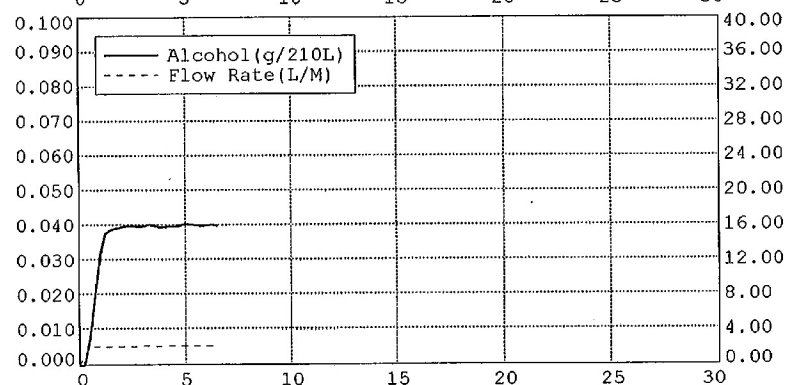
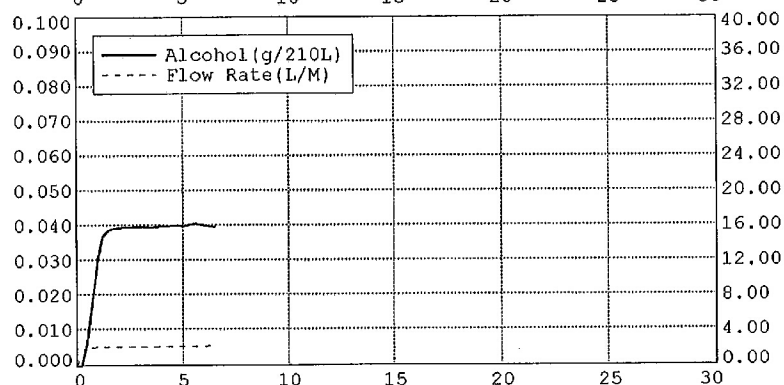
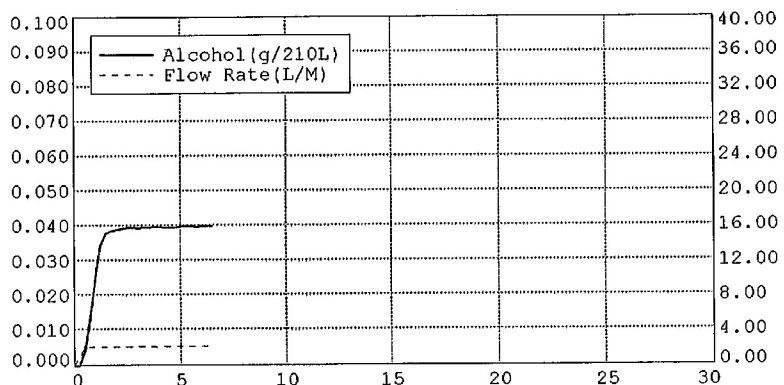
Date: 03/07/2012
Time: 11:40:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.80: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:41
INTERNAL STANDARD	VERIFIED	11:41
EXTERNAL STANDARD	0.040	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.040	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.040	11:44
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.040	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.040	11:46
BLANK TEST	0.000	11:47

Average = 0.0405
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100348

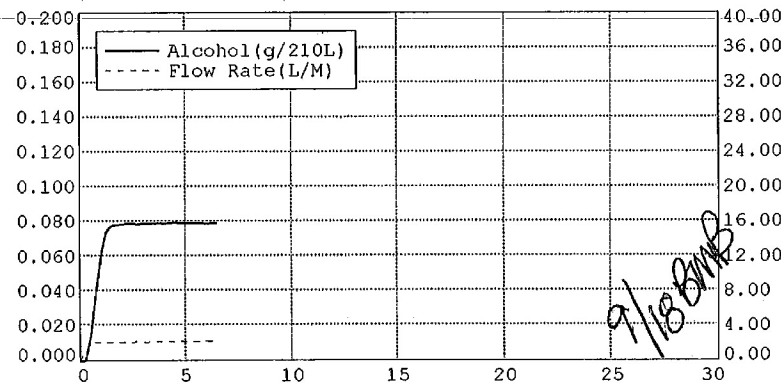
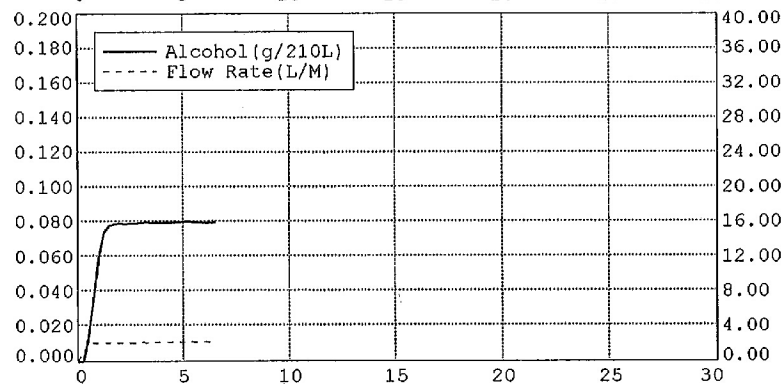
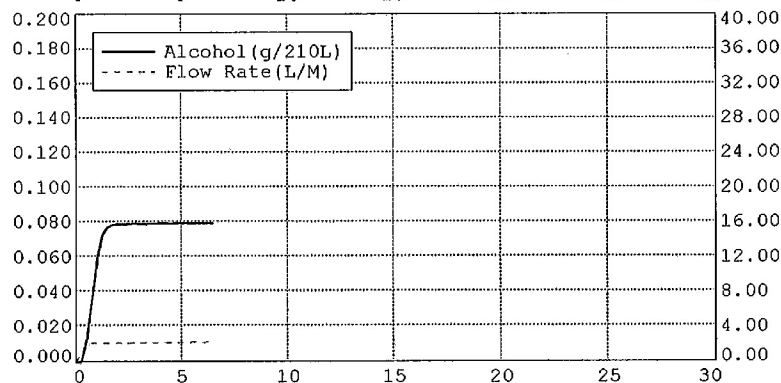
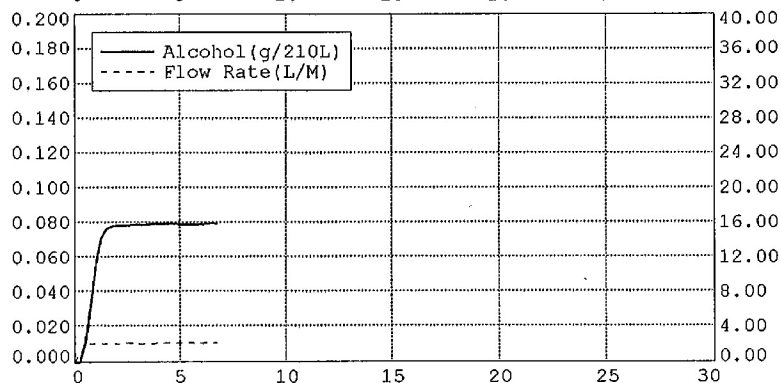
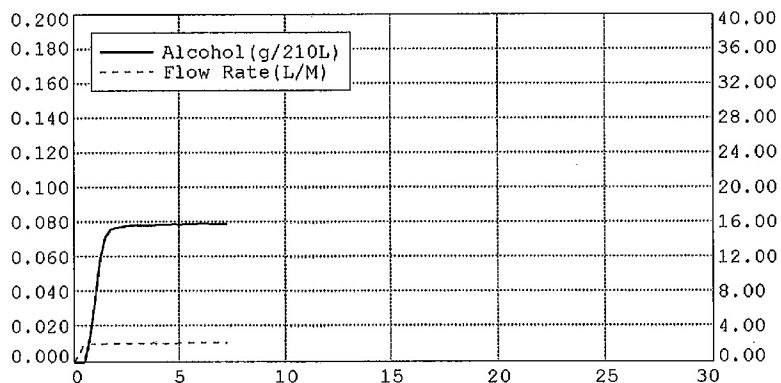
Date: 03/07/2012
Time: 14:45:46

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.80: 0.079
LOT #: 02511080A2
EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:47
INTERNAL STANDARD	VERIFIED	14:47
EXTERNAL STANDARD	0.080	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.080	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.079	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.080	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.079	14:52
BLANK TEST	0.000	14:53

Average = 0.0800
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100348

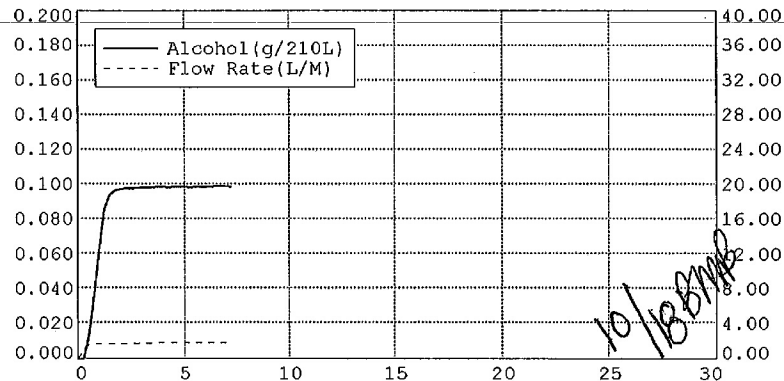
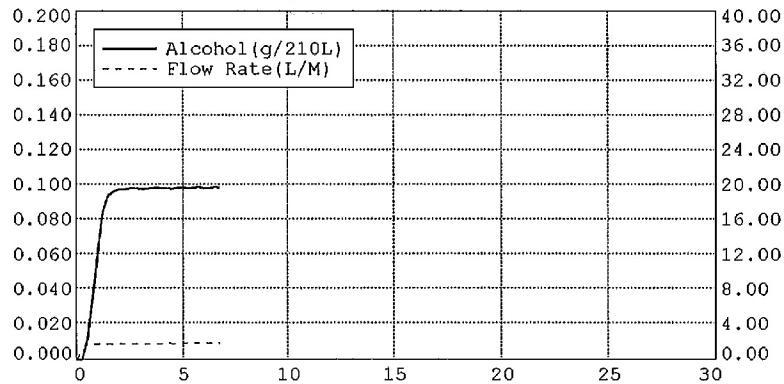
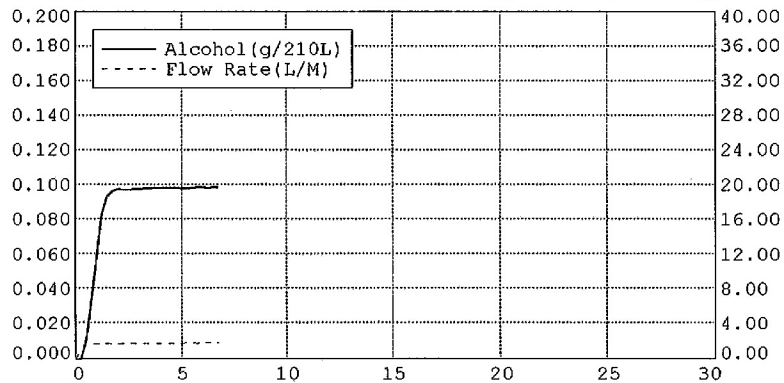
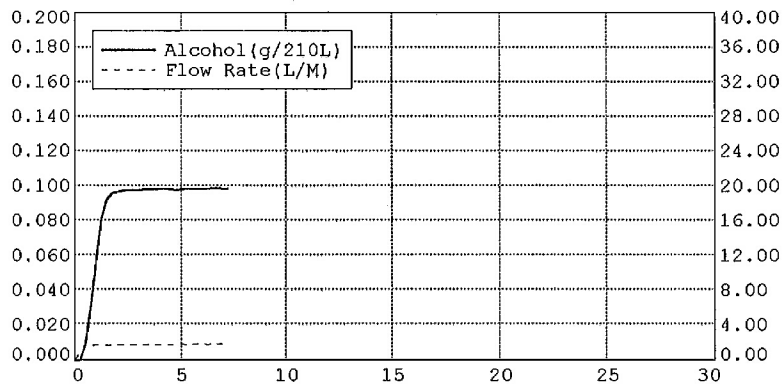
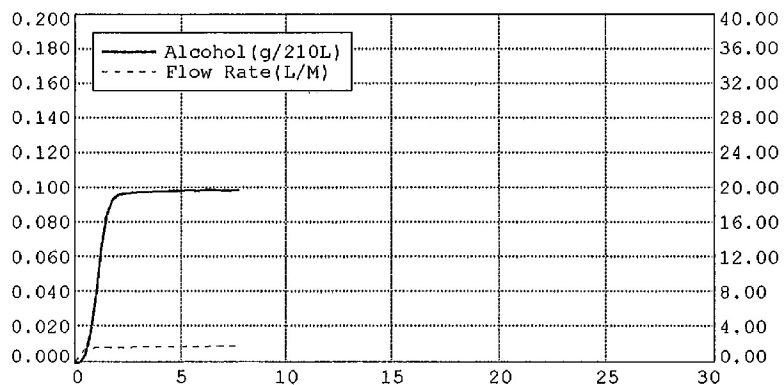
Date: 03/07/2012
Time: 15:10:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.80: 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:11
INTERNAL STANDARD	VERIFIED	15:12
EXTERNAL STANDARD	0.098	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.098	15:13
BLANK TEST	0.000	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

Average = 0.0989
Std Dev = 0.0001



LINEARITY CHECK: Control Test 5

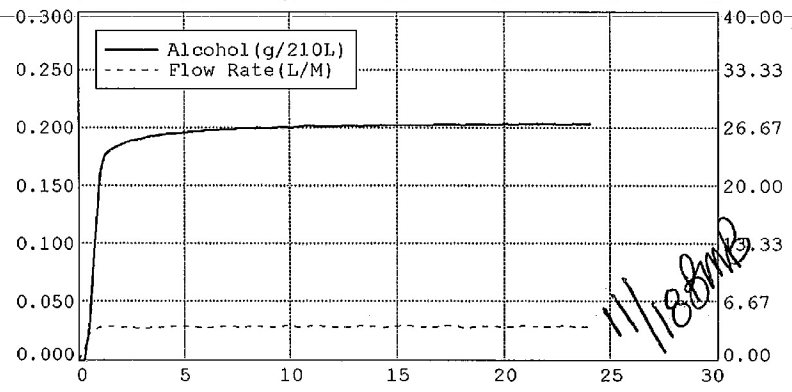
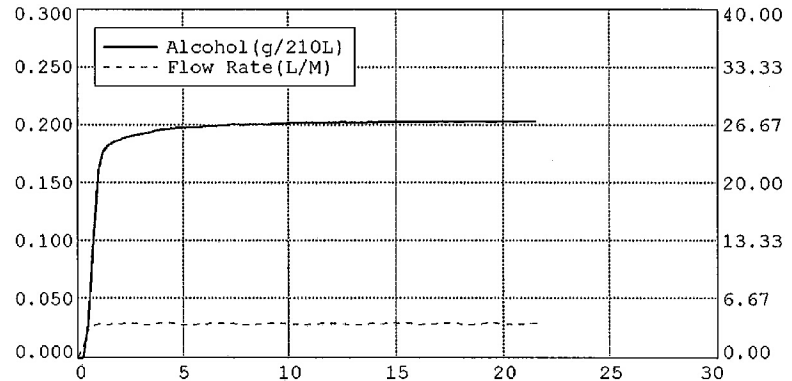
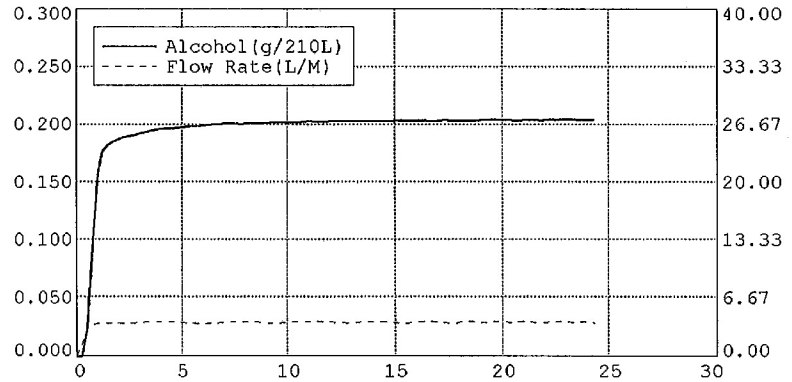
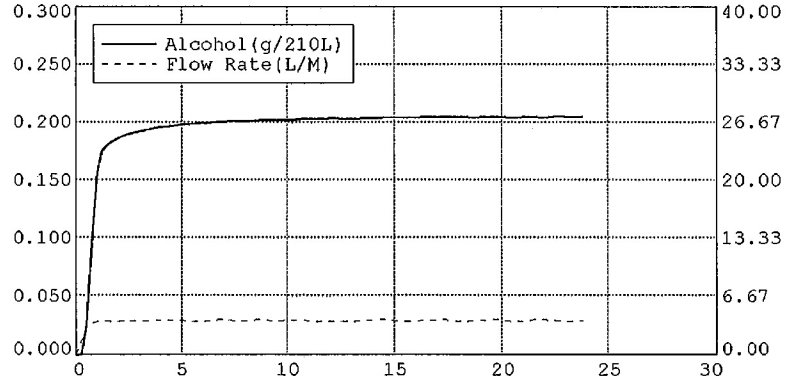
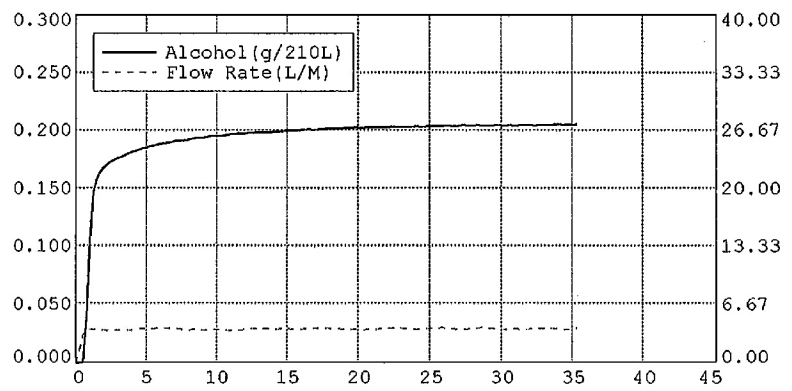
Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/07/2012
Time: 15:34:11

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:35
INTERNAL STANDARD	VERIFIED	15:35
EXTERNAL STANDARD	0.205	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.205	15:37
BLANK TEST	0.000	15:38
EXTERNAL STANDARD	0.205	15:39
BLANK TEST	0.000	15:39
EXTERNAL STANDARD	0.204	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.204	15:41
BLANK TEST	0.000	15:42

Average = 0.2051
Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100348

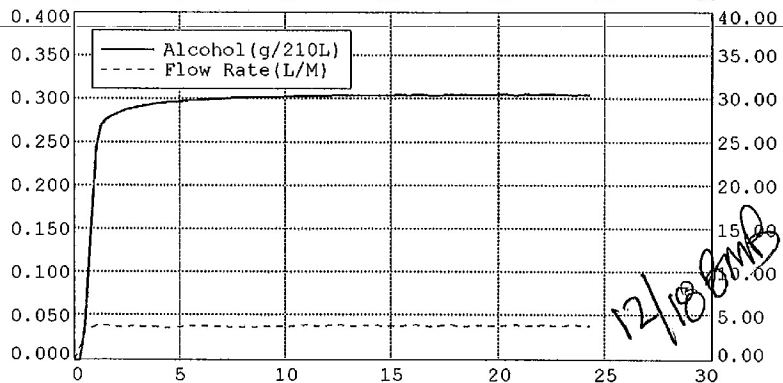
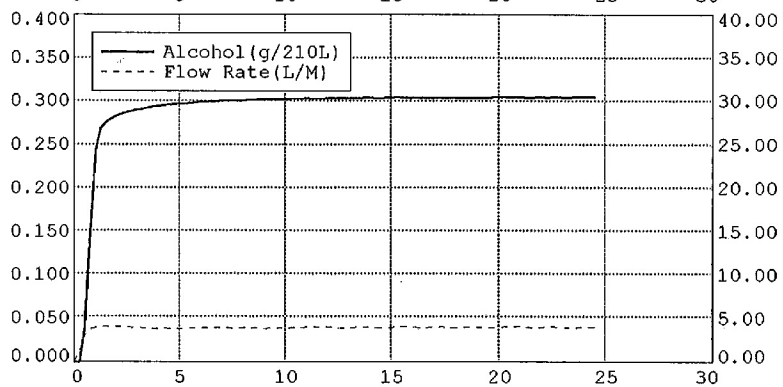
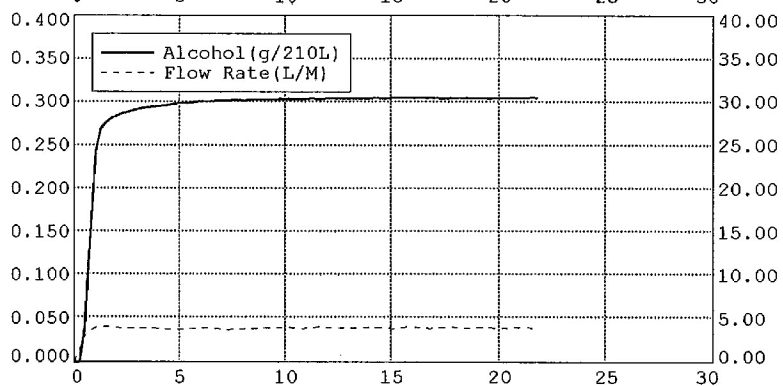
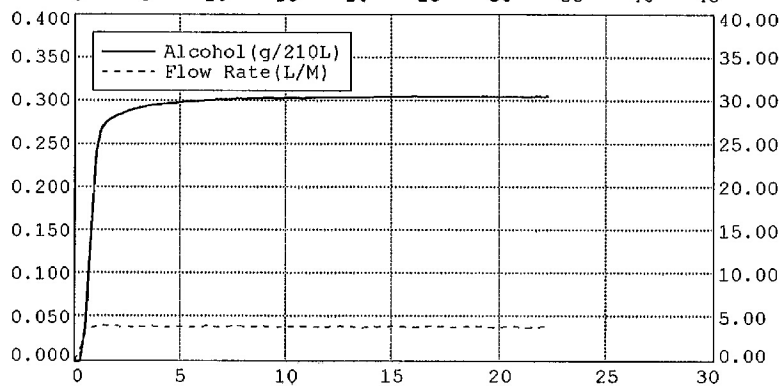
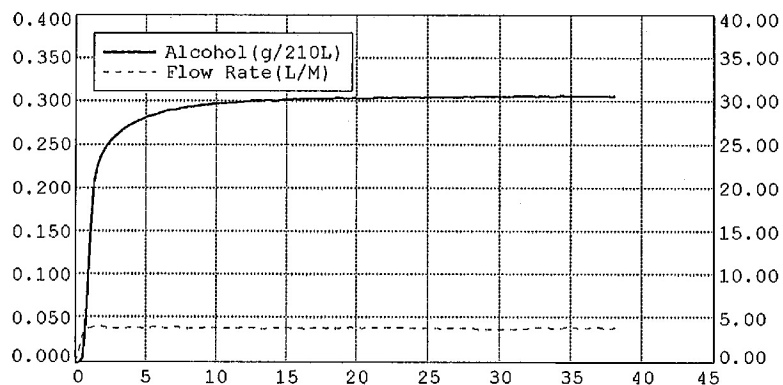
Date: 03/07/2012
Time: 15:49:12

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:50
INTERNAL STANDARD	VERIFIED	15:50
EXTERNAL STANDARD	0.305	15:51
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.305	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.304	15:54
BLANK TEST	0.000	15:54
EXTERNAL STANDARD	0.304	15:55
BLANK TEST	0.000	15:56
EXTERNAL STANDARD	0.304	15:56
BLANK TEST	0.000	15:57

Average = 0.3050
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/08/2012
Time: 09:48:27

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

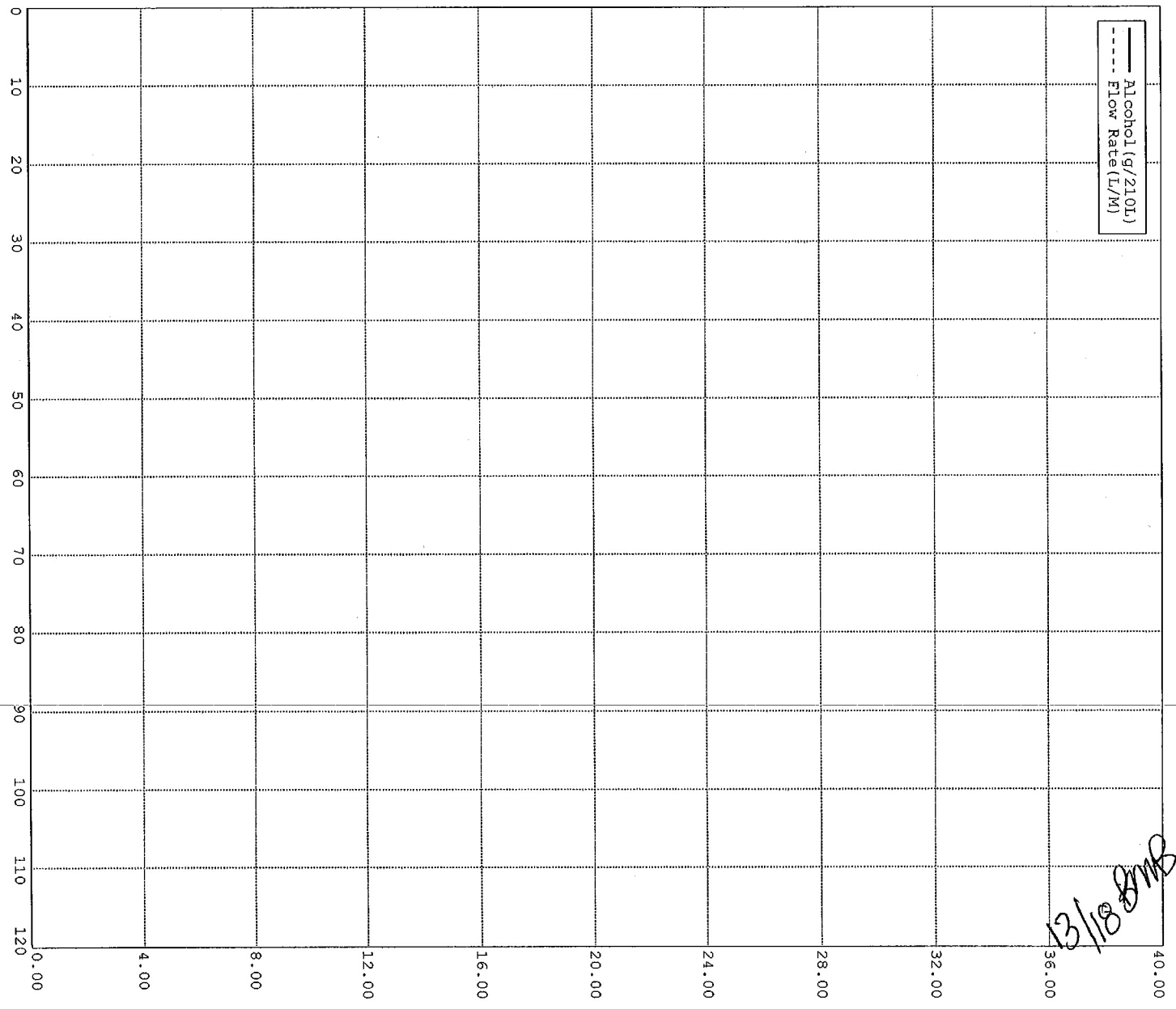
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.45: 0.078
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:49
BLANK TEST	0.000	09:49
INTERNAL STANDARD	VERIFIED	09:49
EXTERNAL STANDARD	0.078	09:49
BLANK TEST	0.000	09:50
SUBJECT SAMPLE	INCOMPLETE	09:52

Brandi



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/08/2012
Time: 10:25:30

SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

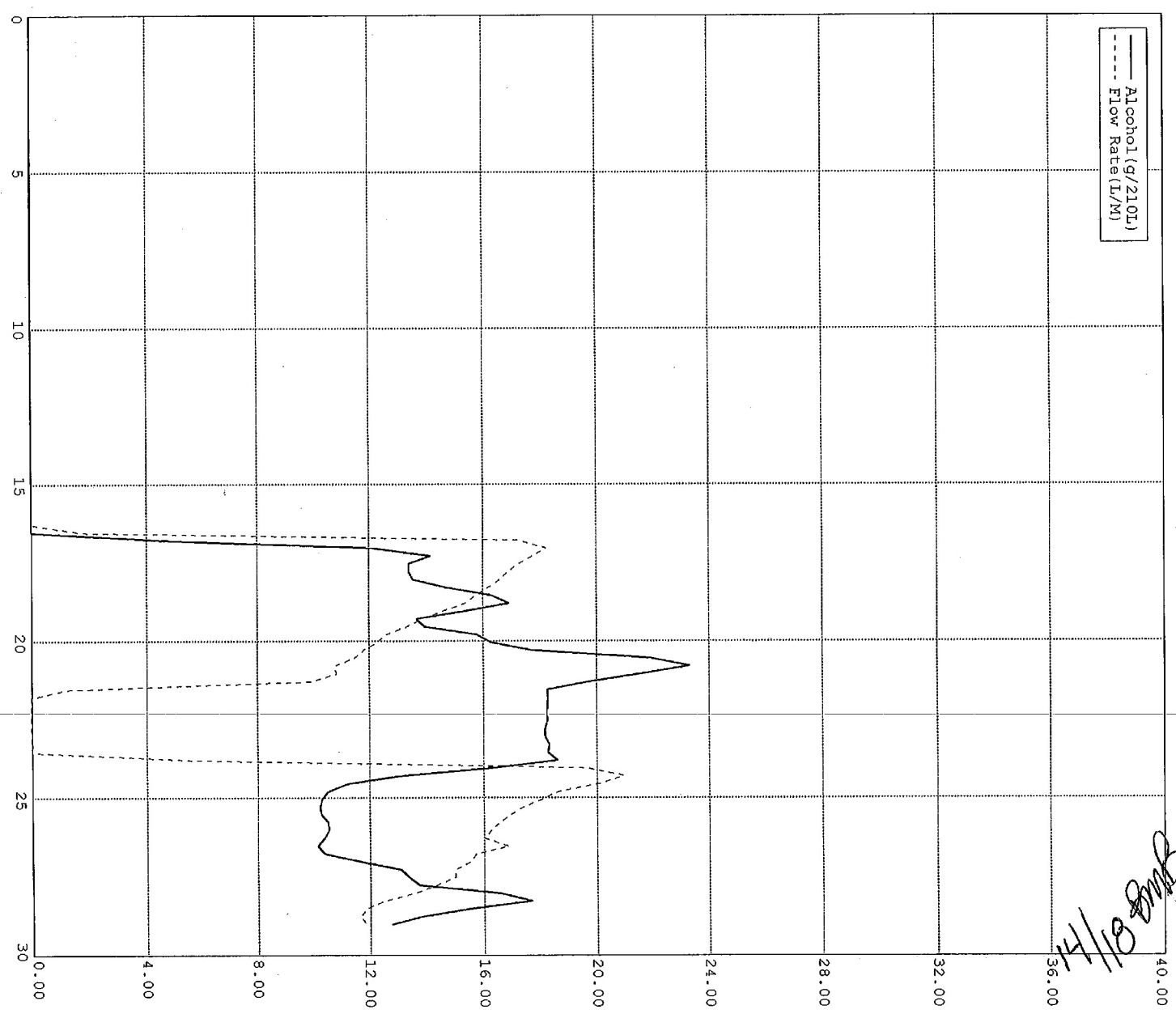
DEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.43: 0.078
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
BLANK TEST
INTERNAL STANDARD
EXTERNAL STANDARD
BLANK TEST
SUBJECT SAMPLE

PASSED 10:27
0.000 10:27
VERIFIED 10:27
0.079 10:28
0.000 10:28
INVALID 10:29

Handwritten signature/initials.



Handwritten signature/initials and date: 03/08/12.

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/08/2012
Time: 11:15:09

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

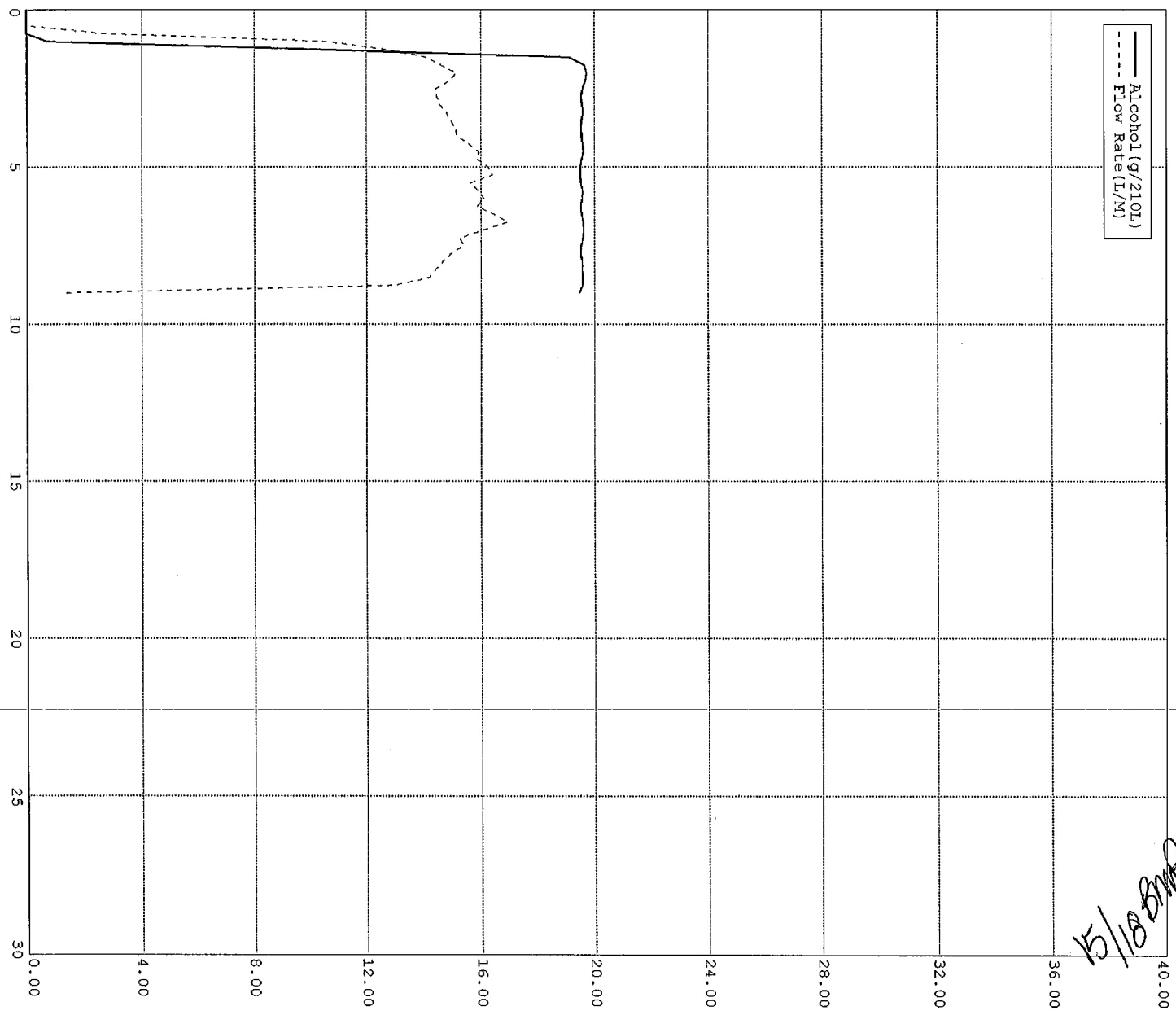
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
ETHANOL AND IPA
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.079	11:16
BLANK TEST	0.000	11:17
SUBJECT SAMPLE	INTERFERENCE	11:17

Handwritten signature/initials



Handwritten signature/initials
15/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100348

Date: 03/08/2012
Time: 11:21:38

SUBJECT NAME:

TEST TEST
LICENSE #: INTERFERE

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

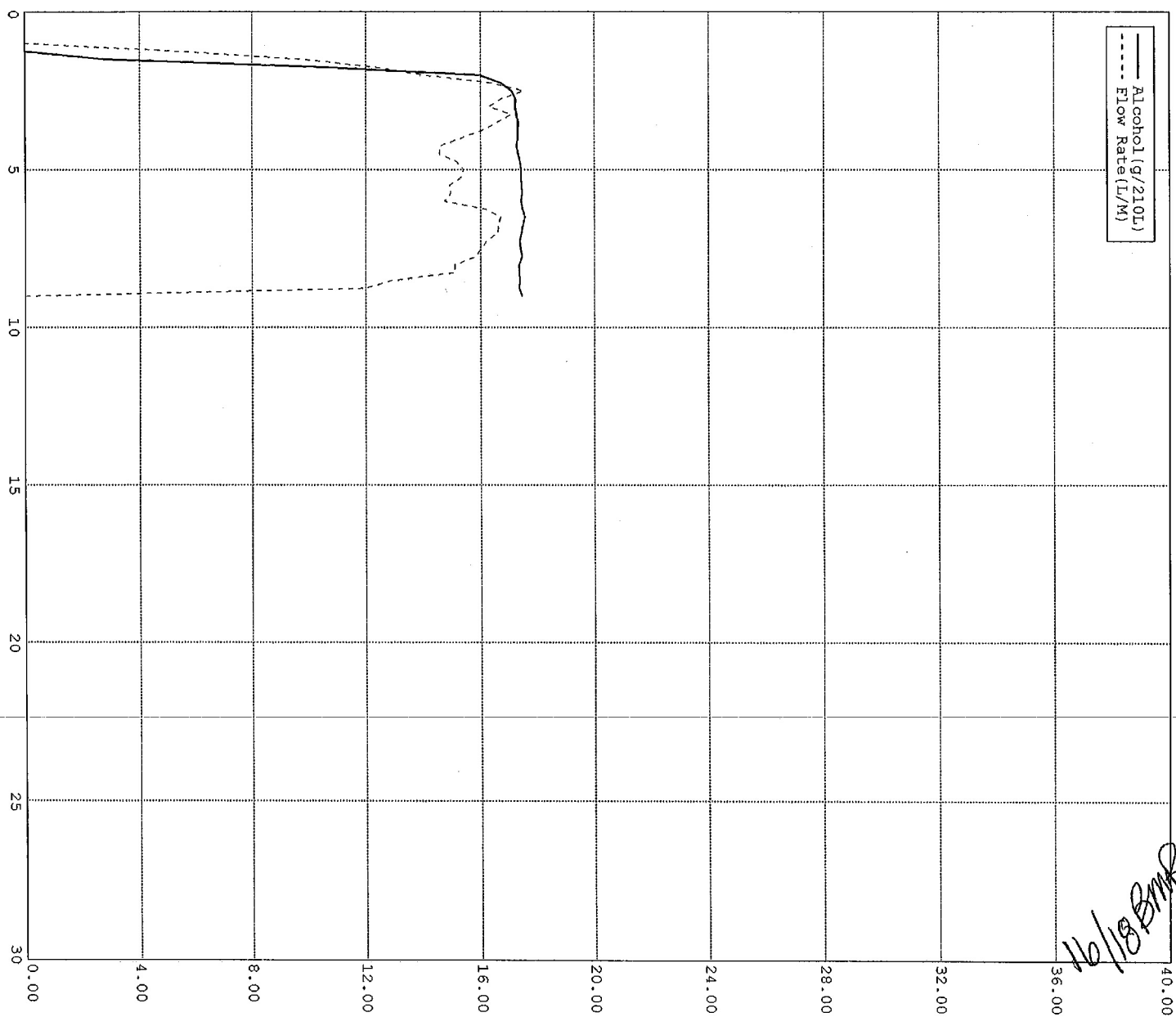
DEPT/AGENCY:
ETHANOL AND ACETONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.39: 0.078
LOT #: 02511080A2
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:22
BLANK TEST	0.000	11:22
INTERNAL STANDARD	VERIFIED	11:23
EXTERNAL STANDARD	0.078	11:23
BLANK TEST	0.000	11:24
SUBJECT SAMPLE	INTERFERENCE	11:24

Brandi Barnett

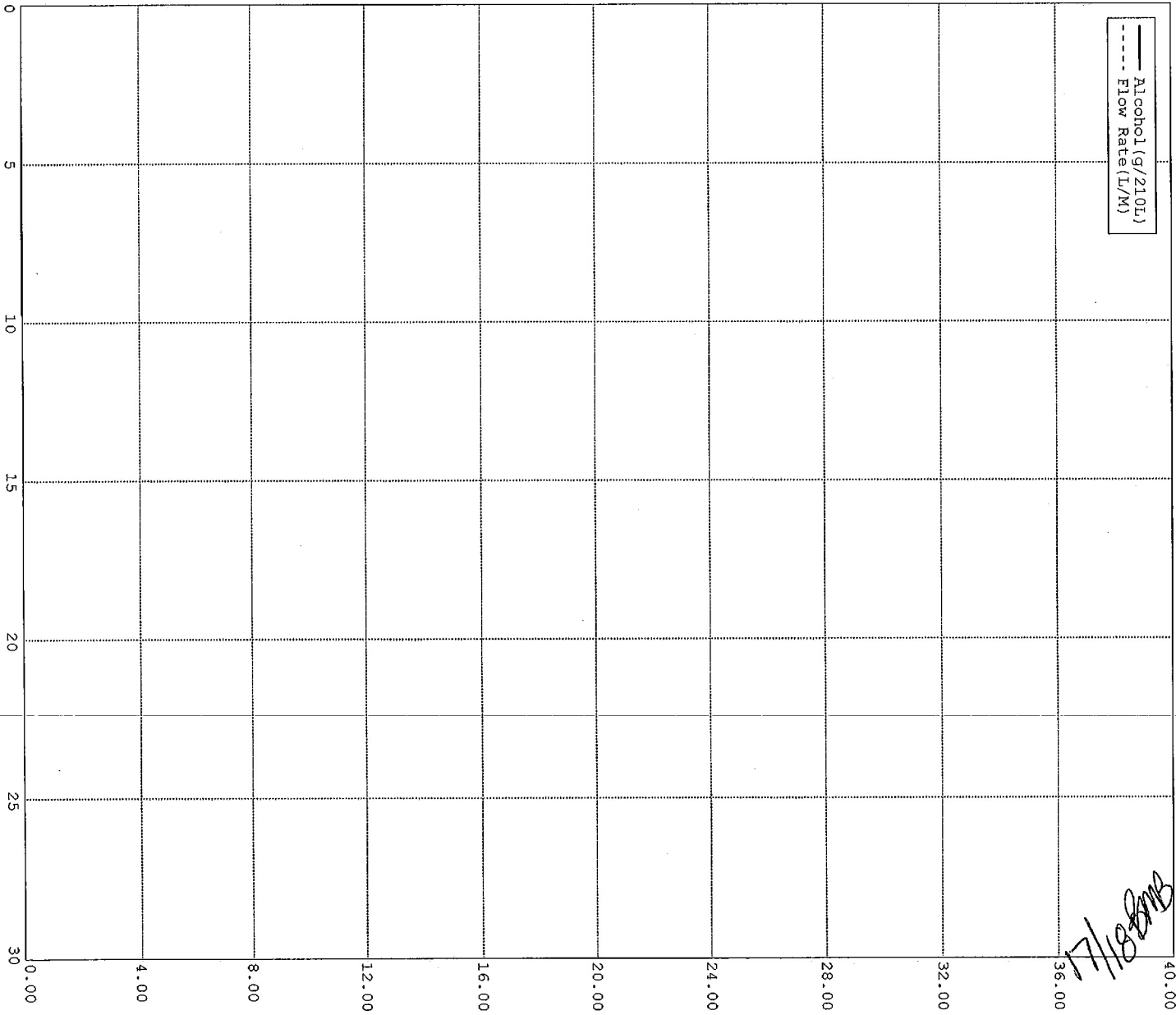


Brandi Barnett
03/08/12

SUBJECT TEST	

Alaska Department of Public Safety	
DATAMASTER dmc: 100348	

Date: 03/08/2012	
Time: 11:04:53	
SUBJECT NAME:	
TEST TEST	
LICENSE #: XXXX	
OPERATOR NAME:	
BRANDI BARNETT	
OPERATOR'S #: 7038	
DEPT/AGENCY:	
RADIO FREQUENCY INTERFERE	
CASE/REPORT: XXXX	
TEST TYPE: TEST	
EXTERNAL STANDARD INFORMATION	
NOMINAL: 0.080	
TARGET AT 29.40: 0.078	
LOT #: 02511080A2	
EXPIRATION: 02/01/2013	
DIAGNOSTIC CHECK	PASSED 11:05
BLANK TEST	0.000 11:05
INTERNAL STANDARD	VERIFIED 11:06
EXTERNAL STANDARD	0.079 11:06
BLANK TEST	0.000 11:07
RFI DETECTED	



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100348

Date: 03/08/2012
 Time: 11:54:15

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.38: 0.078
 LOT #: 02511080A2
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	11:55
BLANK TEST	0.000	11:55
INTERNAL STANDARD	VERIFIED	11:55
EXTERNAL STANDARD	0.079	11:56
BLANK TEST	0.000	11:57
SUBJECT SAMPLE	0.000	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.079	11:58
BLANK TEST	0.000	11:59

