

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100359Analyst Brandi BarnettStart Date 3/7/12

Updated to 2.00 - ran USB Fixer, verified rear seating. BMB
Diagnostic Test (attached) ☒ 3/7/12

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 1600 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 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 05611100A2 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 11110 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 10/17/2012 11/17/20121. Simulator S/N DR6267 Date Calibrated 01/10/2012 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 ☒ AEnd Date 3/8/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/07/2012
Time: 11:05:36

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 47.7°C	PASSED

PUMP INFO

Flow Rate = 5.015 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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2/18 BMB

Technician Screen

DATAMASTER dmt: 100359

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

Temperatures (°C)

Sample Cell: 49.1°C
Breath Tube: 46.3°C

Current Barometer 29.8 in
Volume (Ltr) 1.49

Settings

Lamp: 1.93 V
Bias: 80 V
Cooler: 1.79 V
Chopper: 534 Hz

Voltages (V)

Flow: 1.05 V
Detector: 0.064 V

3/18/12
BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 02/03/2012
Time: 06:38:09

Ca	=	0.1000		
CAL	=	0.974864	0.800	<= CAL < 1.200
b1	=	0.0006	0.0000	<= b1 < 0.0040
b2	=	0.0040	0.0010	<= b2 < 0.0100
b3	=	0.0001	0.0000	<= b3 < 0.0040
Xq	=	0.0802	0.0500	<= Xq < 0.2000
a21	=	1.138338	1.050	<= a21 < 1.300
a31	=	0.394849	0.300	<= a31 < 0.800

4/18 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100359

Date: 03/07/2012
 Time: 11:14:46

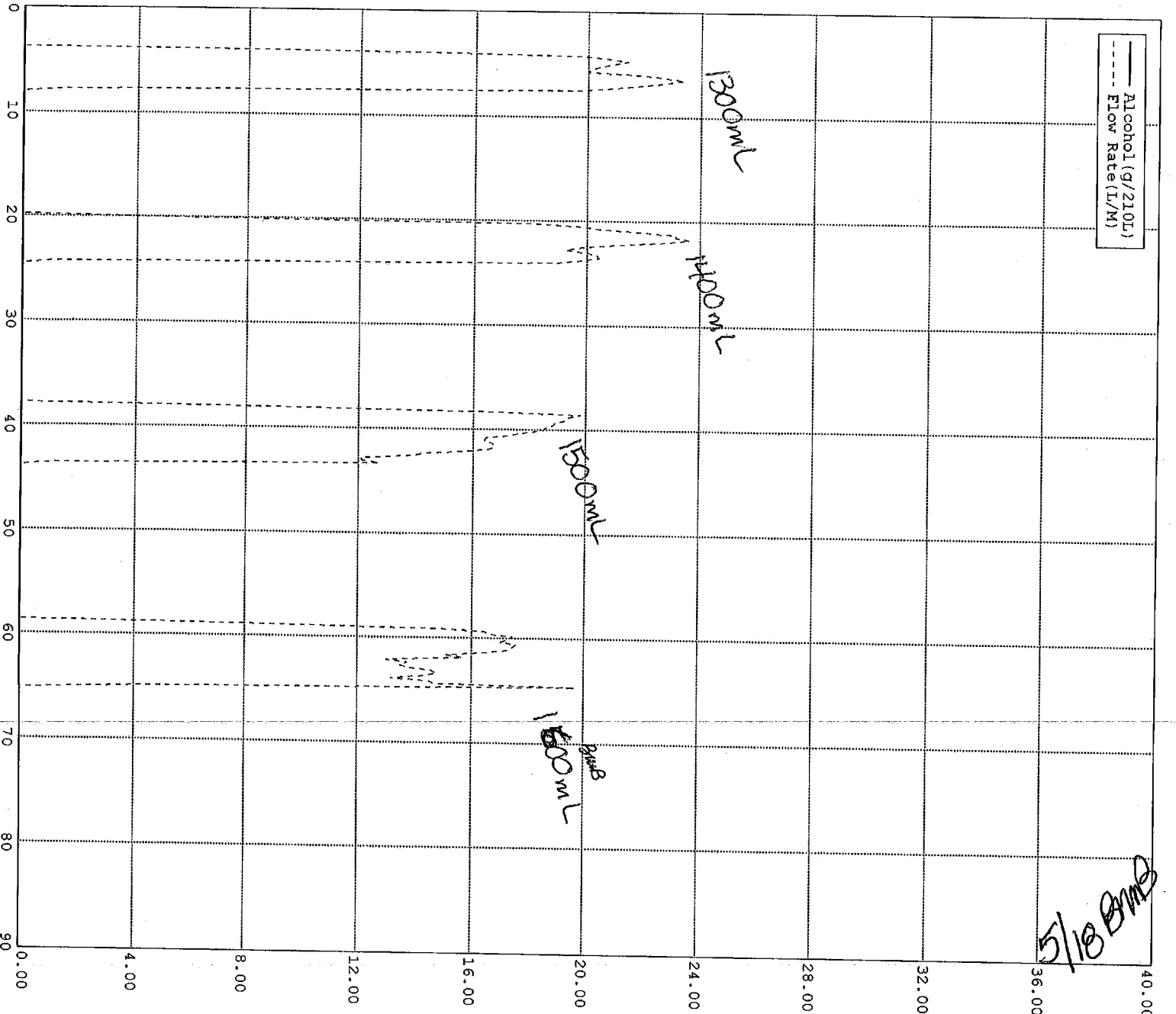
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX
 OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.076	11:16
BLANK TEST	0.000	11:17
SUBJECT SAMPLE	0.000	11:19
BLANK TEST	0.000	11:19
EXTERNAL STANDARD	0.077	11:20
BLANK TEST	0.000	11:21

BBMB



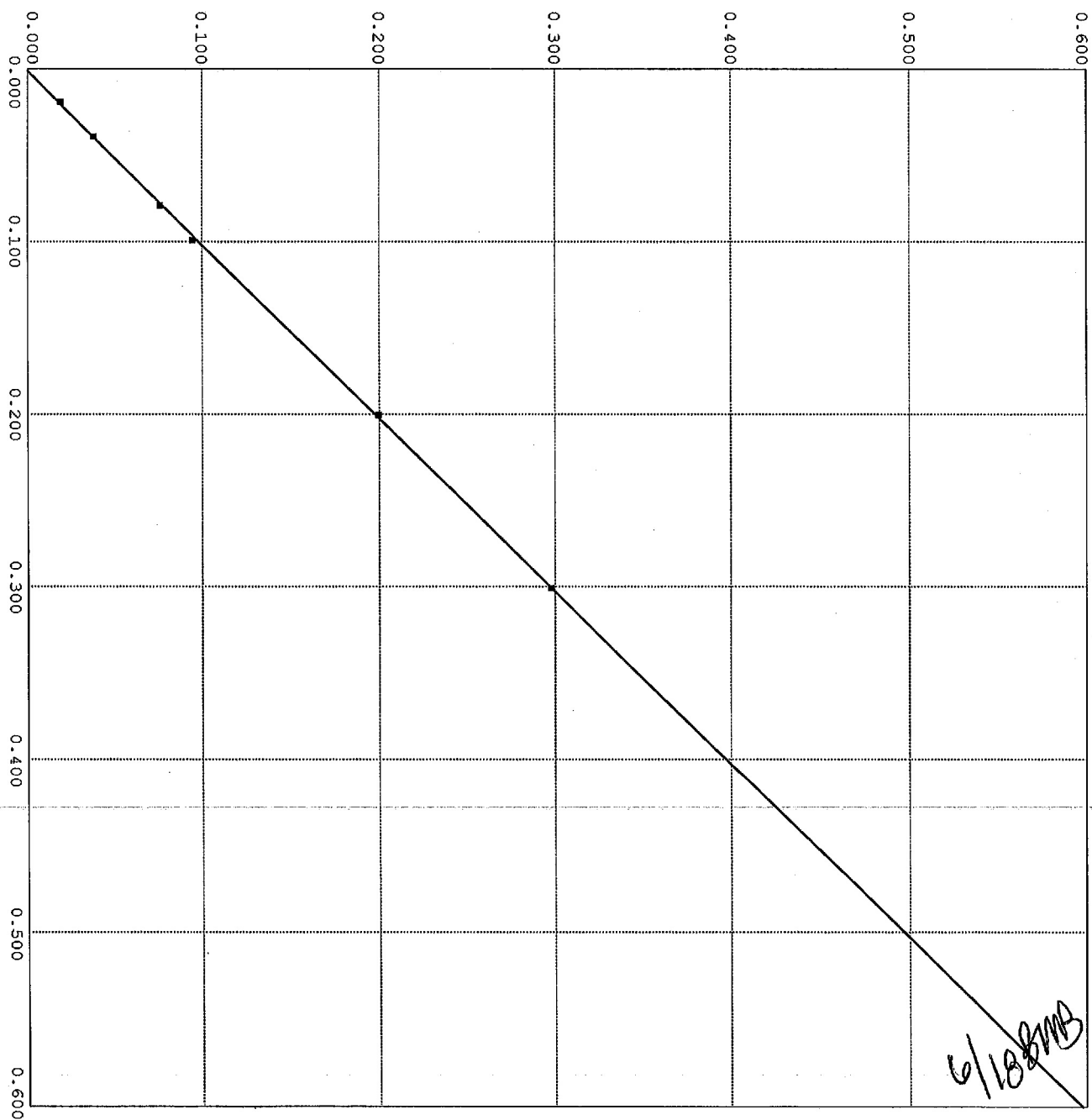
LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100359Date: 03/07/2012
Time: 11:25:28SUPERVISOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.019	0.0194	0.0004
0.039	0.0387	0.0004
0.079	0.0765	0.0002
0.099	0.0951	0.0003
0.200	0.2003	0.0005
0.300	0.2983	0.0007

SLOPE = 0.998411
 R^2 = 0.999748

BMB



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100359

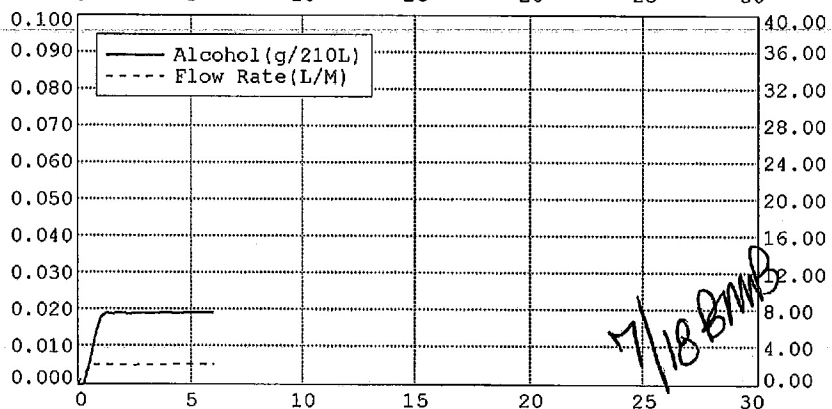
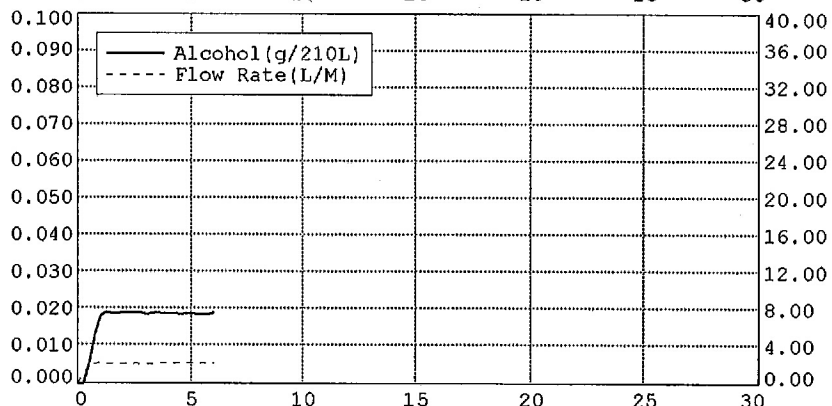
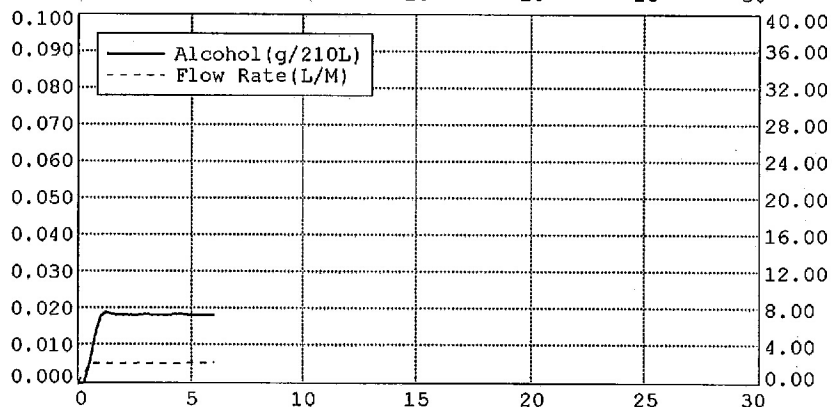
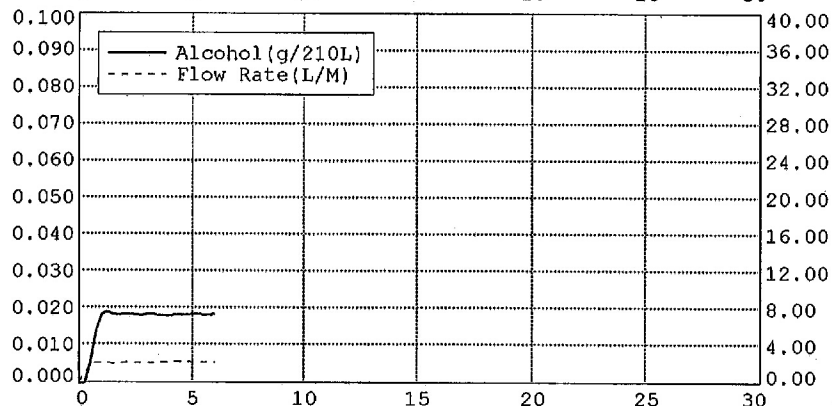
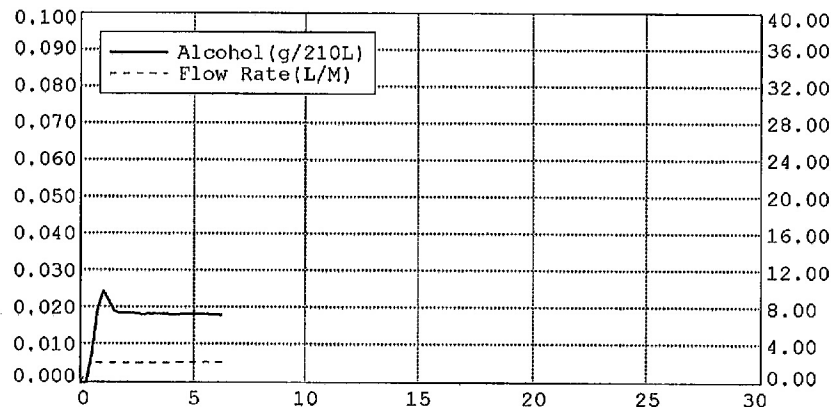
Date: 03/07/2012
Time: 11:25:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.79; 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:27
INTERNAL STANDARD	VERIFIED	11:27
EXTERNAL STANDARD	0.019	11:27
BLANK TEST	0.000	11:28
EXTERNAL STANDARD	0.019	11:28
BLANK TEST	0.000	11:29
EXTERNAL STANDARD	0.019	11:30
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.019	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.020	11:32
BLANK TEST	0.000	11:33

Average = 0.0194
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100359

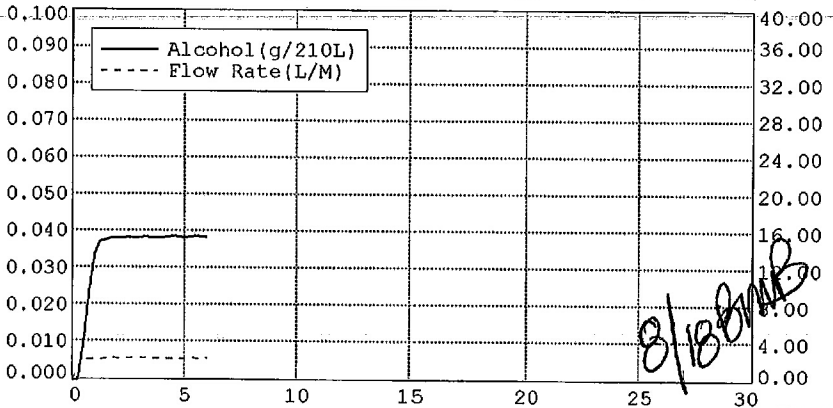
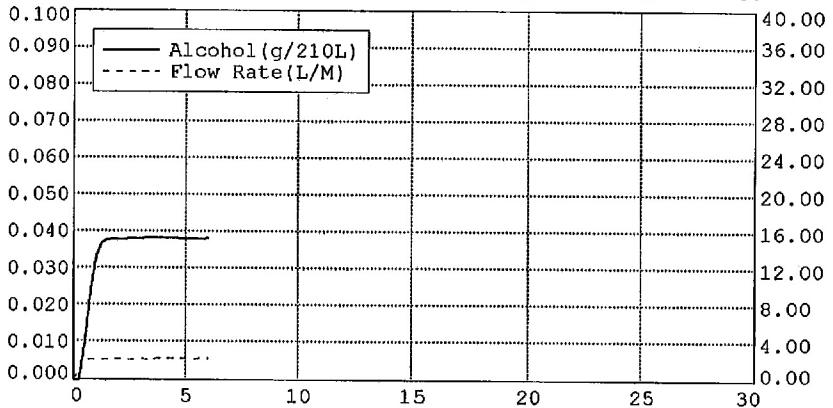
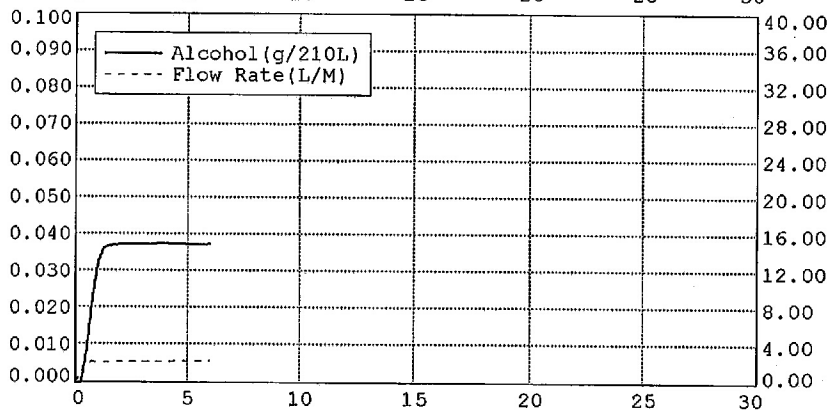
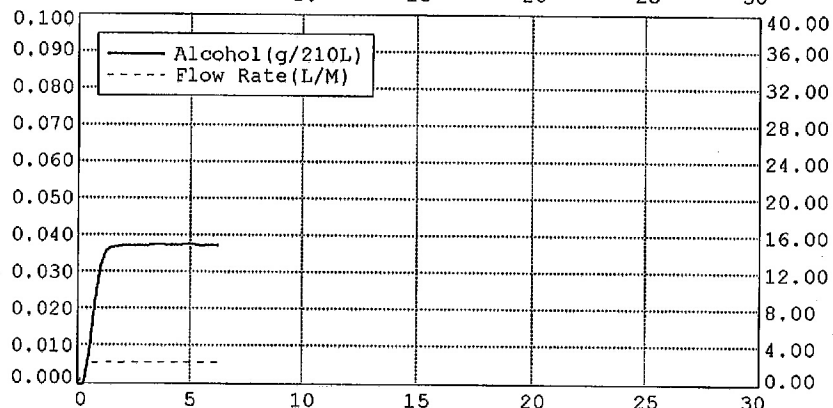
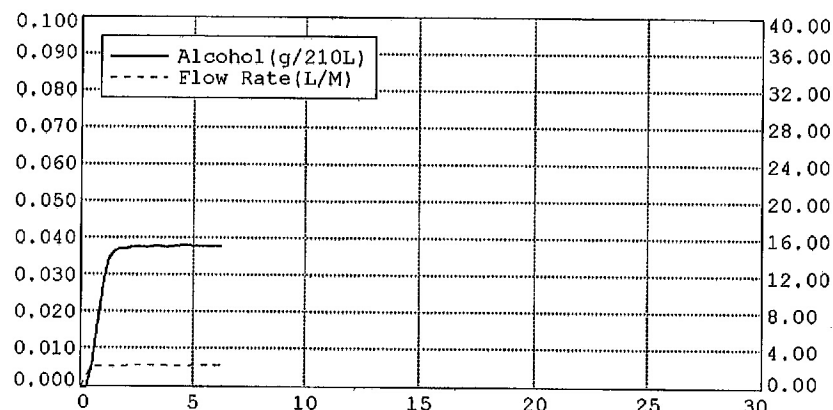
Date: 03/07/2012
Time: 11:37:10

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:39
INTERNAL STANDARD	VERIFIED	11:39
EXTERNAL STANDARD	0.038	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.038	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.038	11:41
BLANK TEST	0.000	11:42
EXTERNAL STANDARD	0.038	11:42
BLANK TEST	0.000	11:43
EXTERNAL STANDARD	0.039	11:43
BLANK TEST	0.000	11:44

Average = 0.0387
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

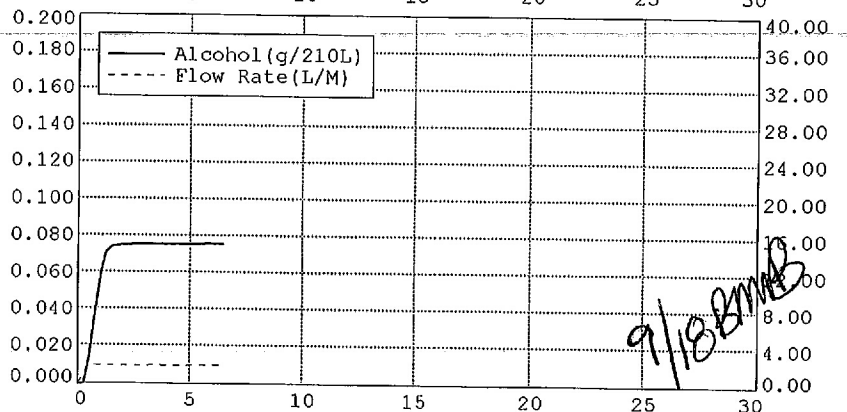
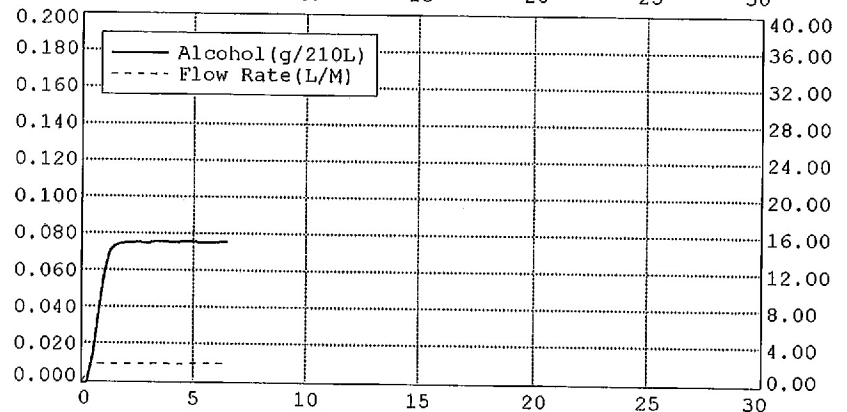
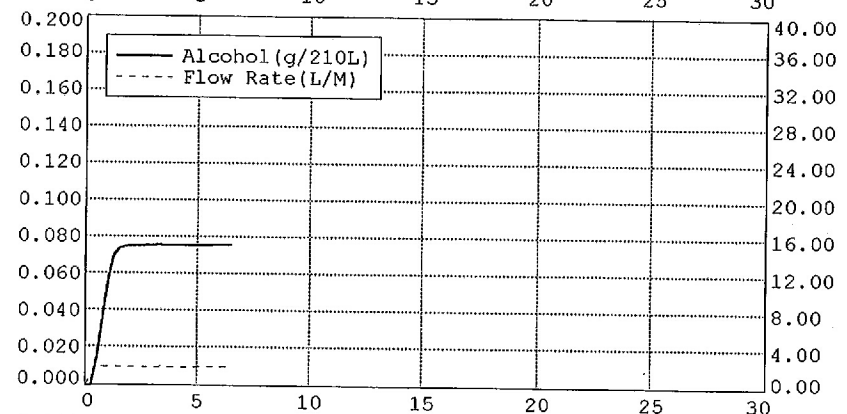
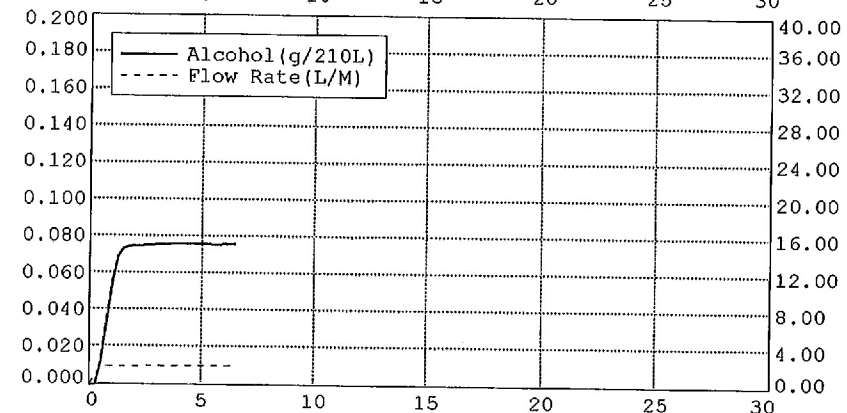
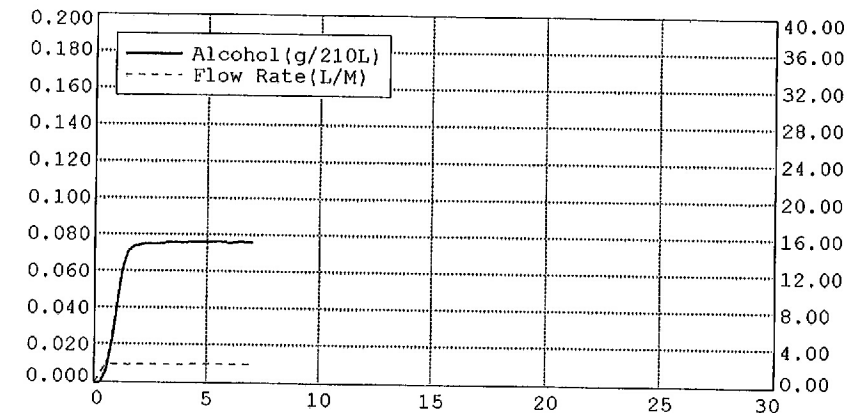
Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/07/2012
Time: 11:48:11

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.80: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:50
INTERNAL STANDARD	VERIFIED	11:50
EXTERNAL STANDARD	0.076	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.076	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.076	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.076	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.076	11:54
BLANK TEST	0.000	11:55

Average = 0.0765
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100359

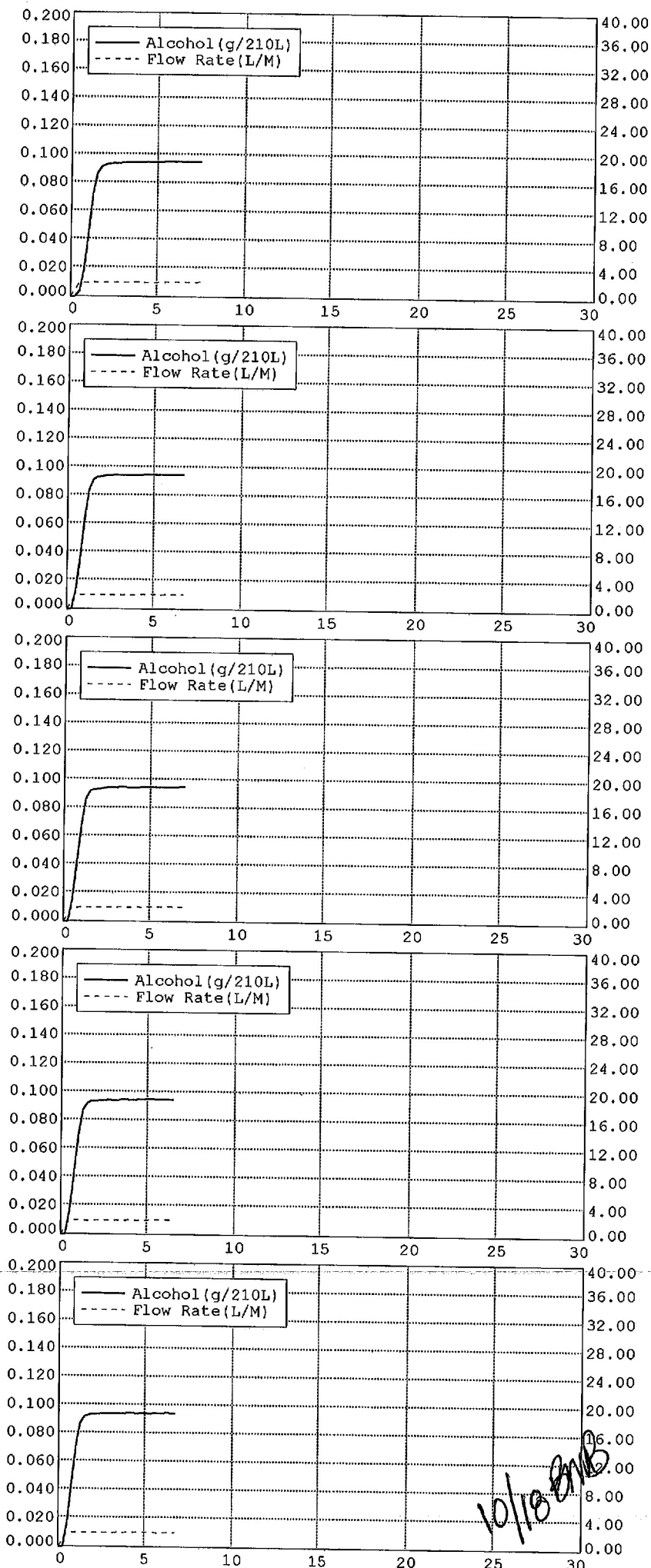
Date: 03/07/2012
Time: 14:55:24

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.095	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.095	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.095	14:59
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.095	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.094	15:01
BLANK TEST	0.000	15:02

Average = 0.0951
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100359

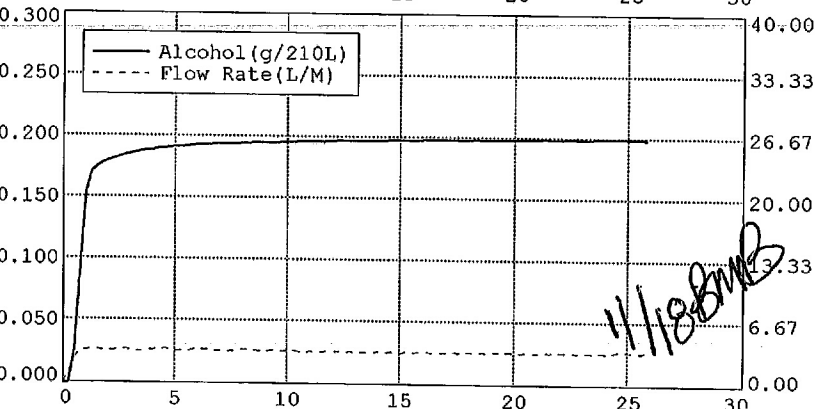
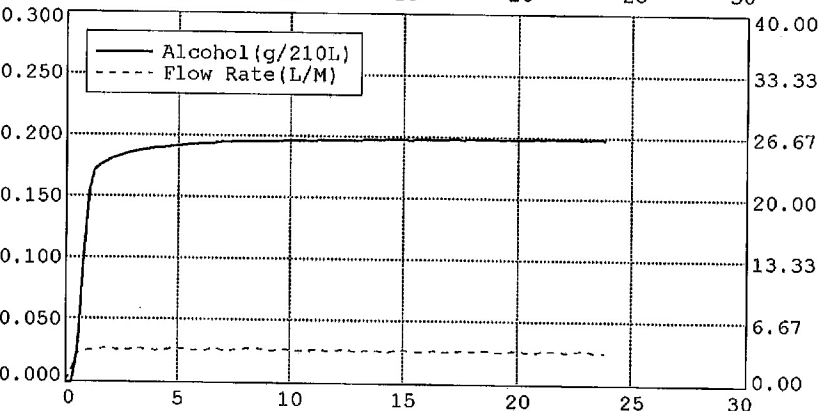
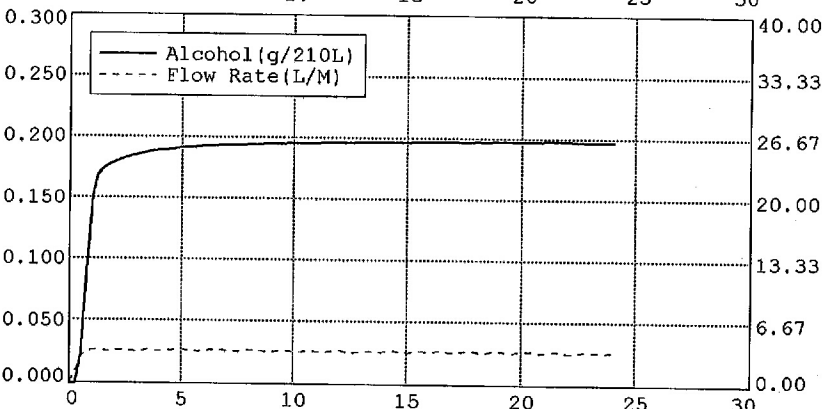
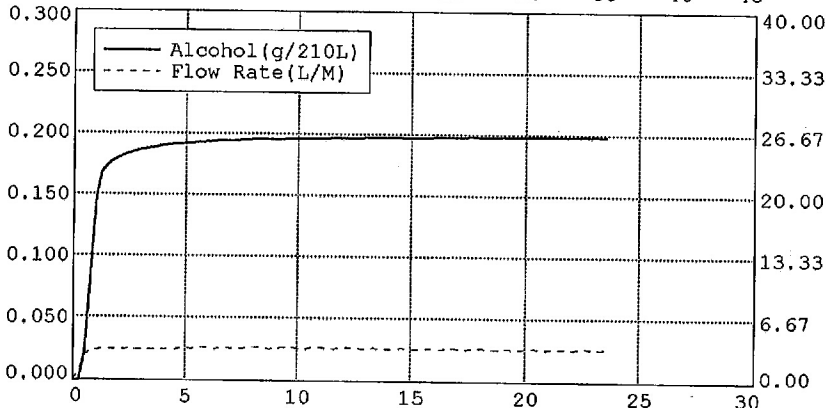
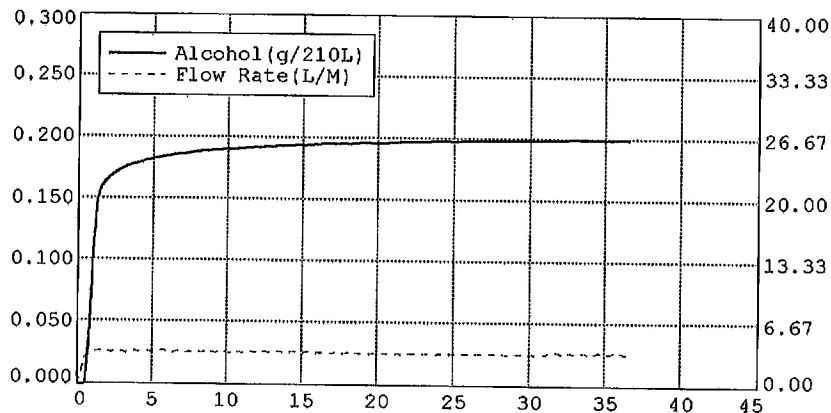
Date: 03/07/2012
Time: 15:15:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.200	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.200	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.199	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.200	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.200	15:22
BLANK TEST	0.000	15:23

Average = 0.2003
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100359

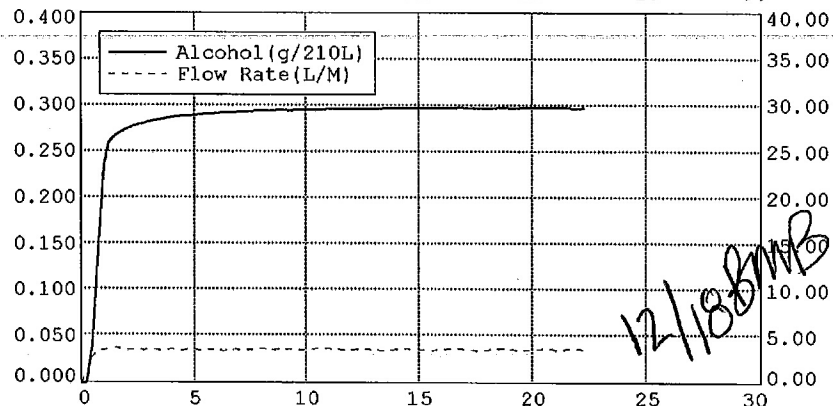
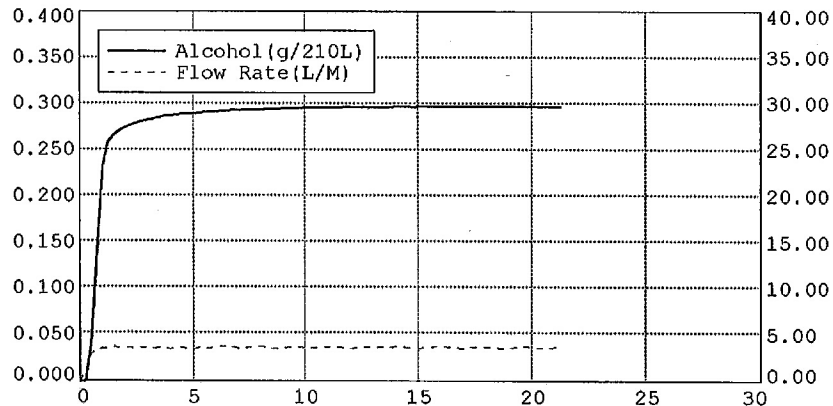
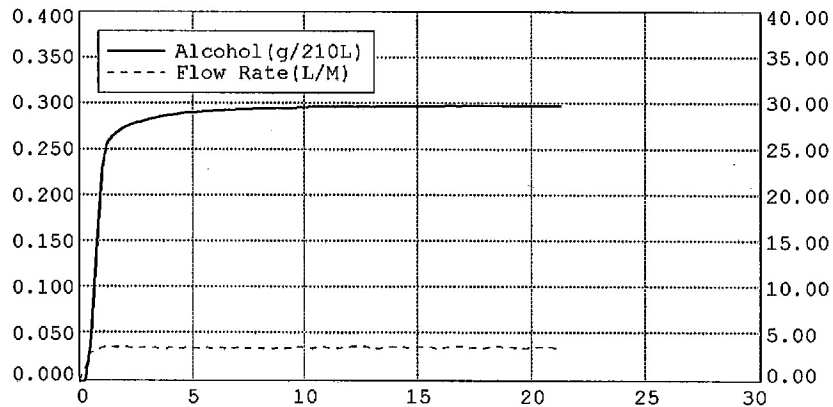
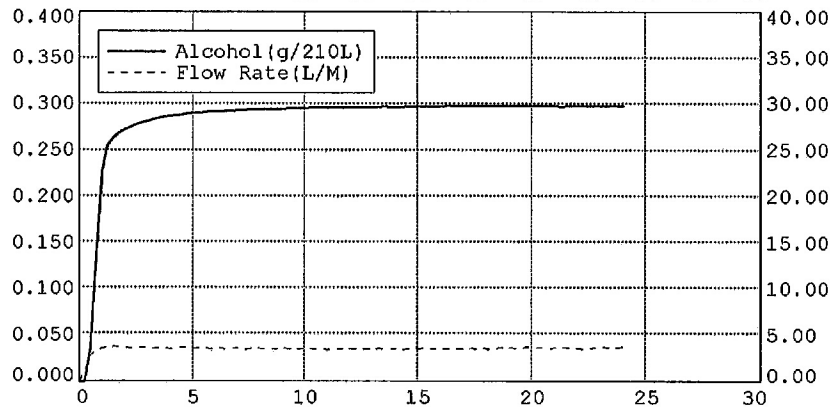
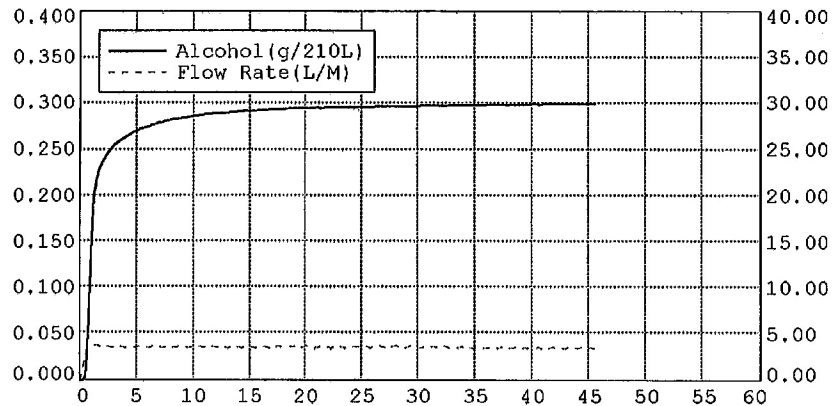
Date: 03/07/2012
Time: 15:42:53

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	15:44
INTERNAL STANDARD	VERIFIED	15:44
EXTERNAL STANDARD	0.299	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.298	15:46
BLANK TEST	0.000	15:47
EXTERNAL STANDARD	0.298	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.297	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.298	15:50
BLANK TEST	0.000	15:51

Average = 0.2983
Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100359

Date: 03/08/2012
 Time: 09:55:13

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

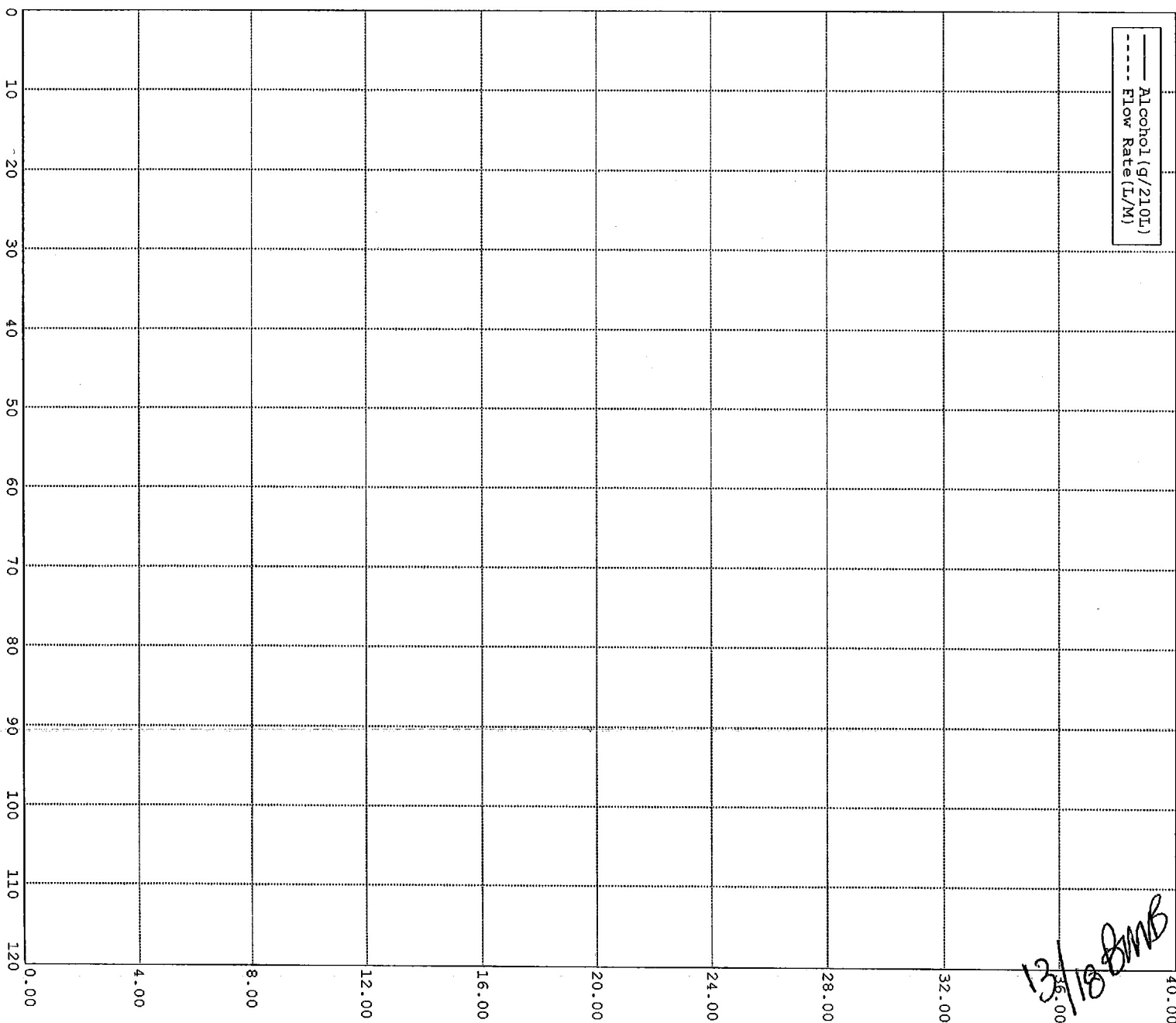
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.46: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:56
BLANK TEST	0.000	09:57
INTERNAL STANDARD	VERIFIED	09:57
EXTERNAL STANDARD	0.075	09:57
BLANK TEST	0.000	09:58
SUBJECT SAMPLE	INCOMPLETE	10:00

BMB

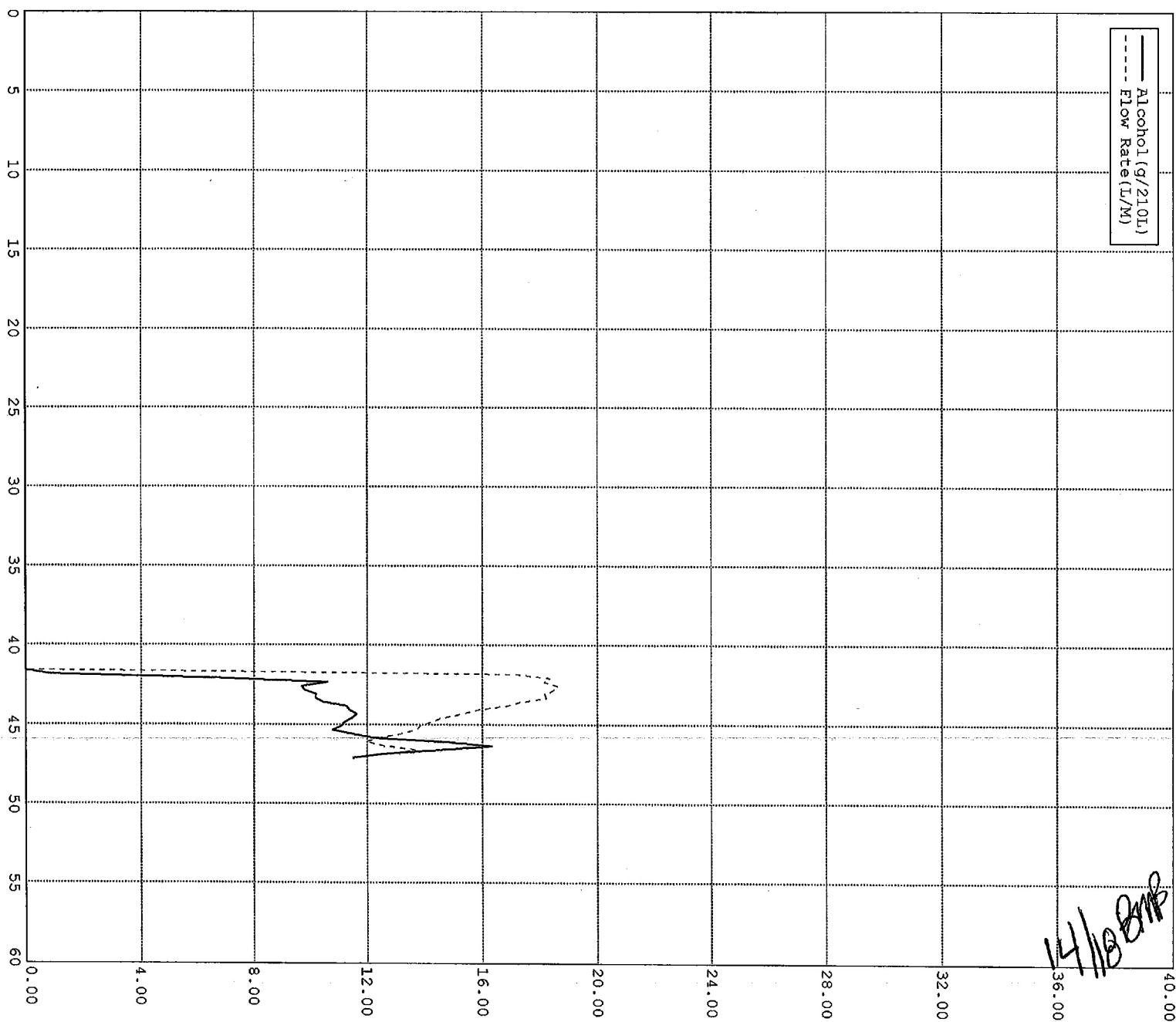


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359Date: 03/08/2012
Time: 10:33:27SUBJECT NAME:
TEST TEST
LICENSE #: INVALIDOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
KNOWN MOUTH ALCOHOL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.44: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 10:35
INTERNAL STANDARD	0.000 10:35
EXTERNAL STANDARD	VERIFIED 10:35
BLANK TEST	0.075 10:35
SUBJECT SAMPLE	0.000 10:36
	INVALID 10:37

BMB



14/11/13 BMB

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/08/2012
Time: 11:30:36

SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERE

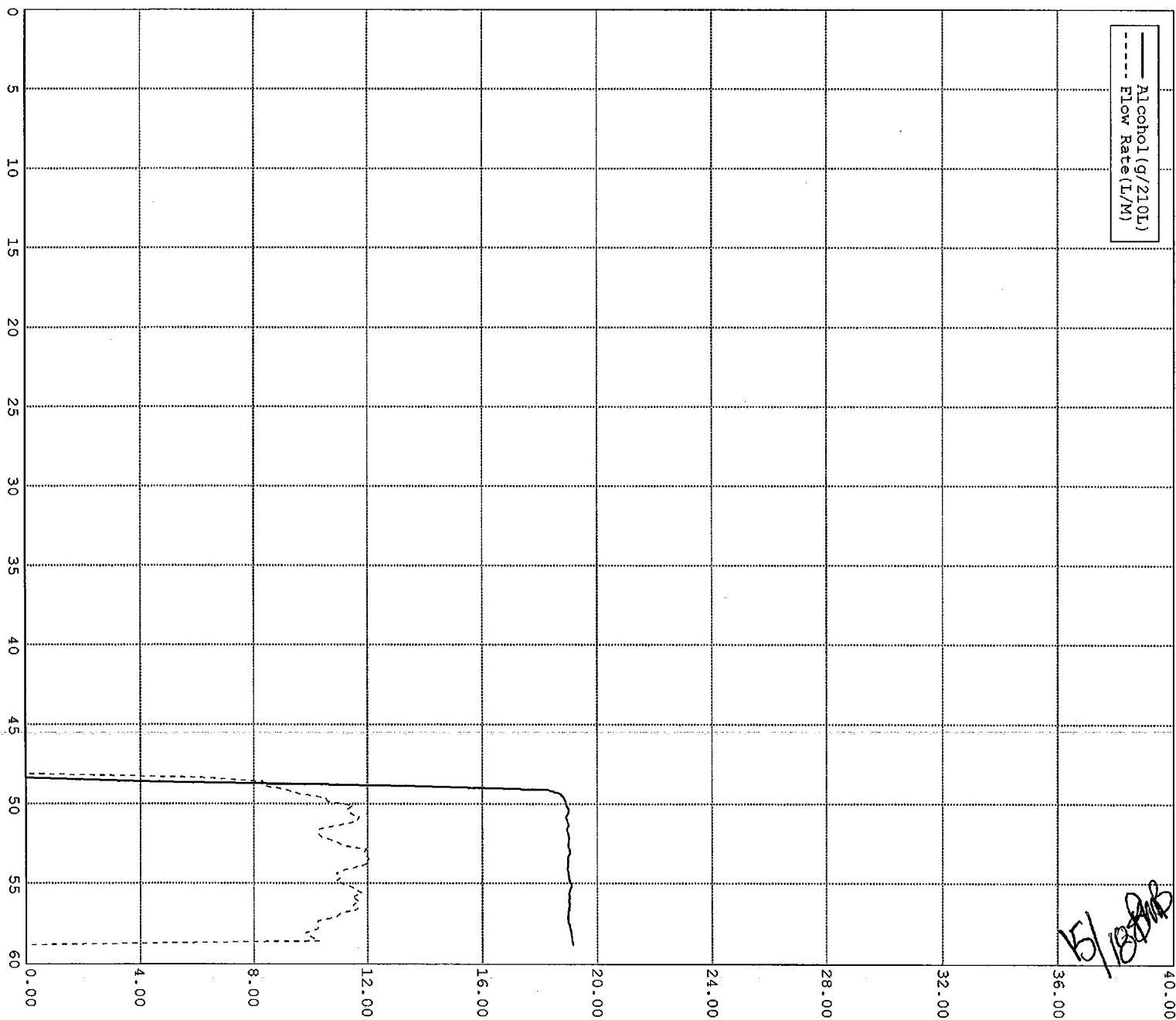
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:31
BLANK TEST	0.000	11:32
INTERNAL STANDARD	VERIFIED	11:32
EXTERNAL STANDARD	0.076	11:32
BLANK TEST	0.000	11:33
SUBJECT SAMPLE	INTERFERENCE	11:34

BRMB

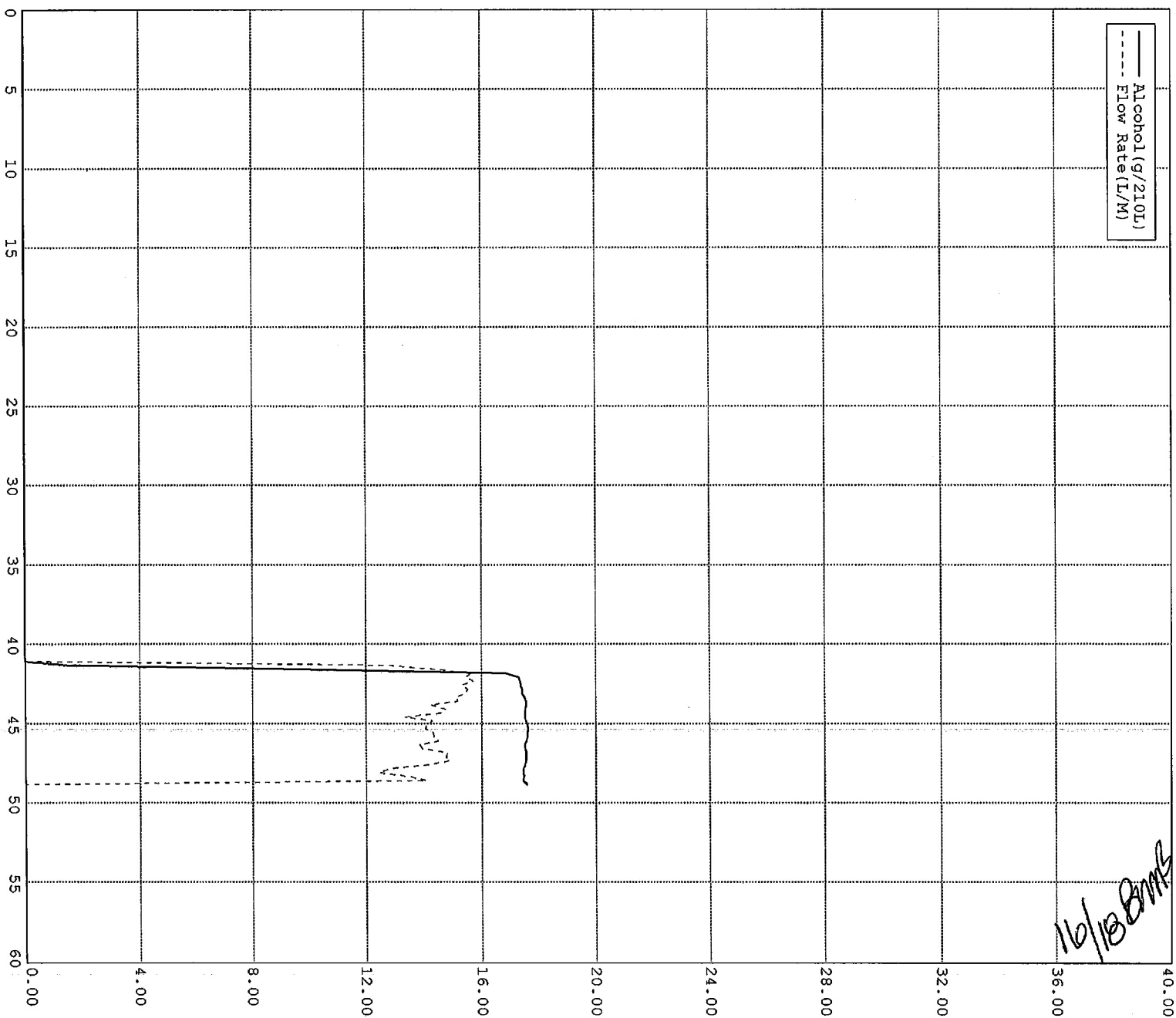


SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359Date: 03/08/2012
Time: 11:23:58SUBJECT NAME:
TEST TEST
LICENSE #: INTERFEREOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
ETHANOL AND ACETONE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:25
BLANK TEST	0.000	11:25
INTERNAL STANDARD	VERIFIED	11:25
EXTERNAL STANDARD	0.075	11:25
BLANK TEST	0.000	11:26
SUBJECT SAMPLE	INTERFERENCE	11:27

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100359

Date: 03/08/2012
Time: 11:11:22

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

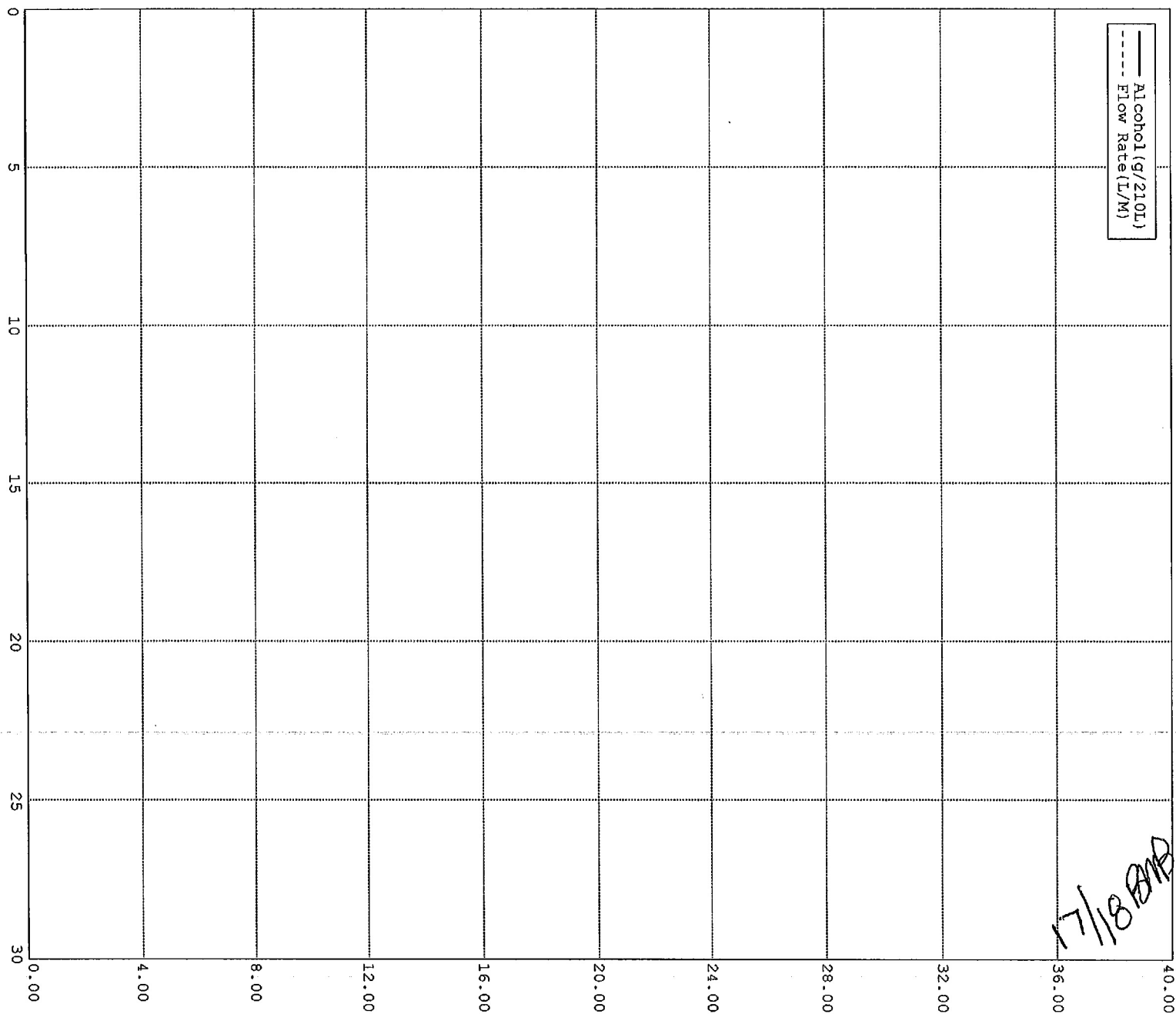
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK PASSED 11:13
BLANK TEST 0.000 11:13
INTERNAL STANDARD VERIFIED 11:13
EXTERNAL STANDARD 0.075 11:13
BLANK TEST 0.000 11:14

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100359

Date: 03/08/2012
 Time: 12:03:04

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 #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:04
BLANK TEST	0.000	12:04
INTERNAL STANDARD	VERIFIED	12:04
EXTERNAL STANDARD	0.075	12:04
BLANK TEST	0.000	12:05
SUBJECT SAMPLE	0.000	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.076	12:07
BLANK TEST	0.000	12:08

