

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100681 Analyst Brandi Barnett Start Date 5/14/12
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 1500 mL mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒

- i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013
ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013
iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 03/01/2014
iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013
v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/19/13
1. Simulator S/N SD1176 Date Calibrated 8/17/2011
vi. 0.300g/210L Mnf 11110 Lot Guth Exp 7/13/13
1. Simulator S/N DR4176 Date Calibrated 02/21/2012

5. Functional Tests (attached)

- a. Incomplete ☒ b. Invalid ☒
c. Interference ☒

- i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/13
1. Simulator S/N SD1199 Date Calibrated 01/11/2012
ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12
1. Simulator S/N DR6267 Date Calibrated 01/10/12
iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/13
1. Simulator S/N SD1202 Date Calibrated 8/17/2011

d. 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 ☒End Date 5/17/12

11/19/2013

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100681

Date: 05/14/2012
Time: 13:30:45

VERSIONS

DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 46.3°C	PASSED

PUMP INFO

Flow Rate = 4.899 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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2/19/2012

Technician Screen

DATAMASTER dmt: 100681

Date: 05/14/2012

Time: 1:35 PM

Temperatures (°C)

Sample Cell: 49.1°C

Breath Tube: 45.7°C

Current Barometer 29.9 in

Volume (Ltr) 1.56

Settings

Lamp: 1.70 V

Bias: 80 V

Cooler: 1.60 V

Chopper: 525 Hz

Voltages (V)

Flow: 1.07 V

Detector: -0.058 V

3/19/12 BMB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100681

Date: 10/25/2011

Time: 11:27:48

Ca = 0.1000

CAL = 0.999423 0.800 <= CAL < 1.200

b1 = 0.0000 0.0000 <= b1 < 0.0040

b2 = 0.0023 0.0010 <= b2 < 0.0100

b3 = 0.0000 0.0000 <= b3 < 0.0040

Xq = 0.1073 0.0500 <= Xq < 0.2000

a21 = 1.171221 1.050 <= a21 < 1.300

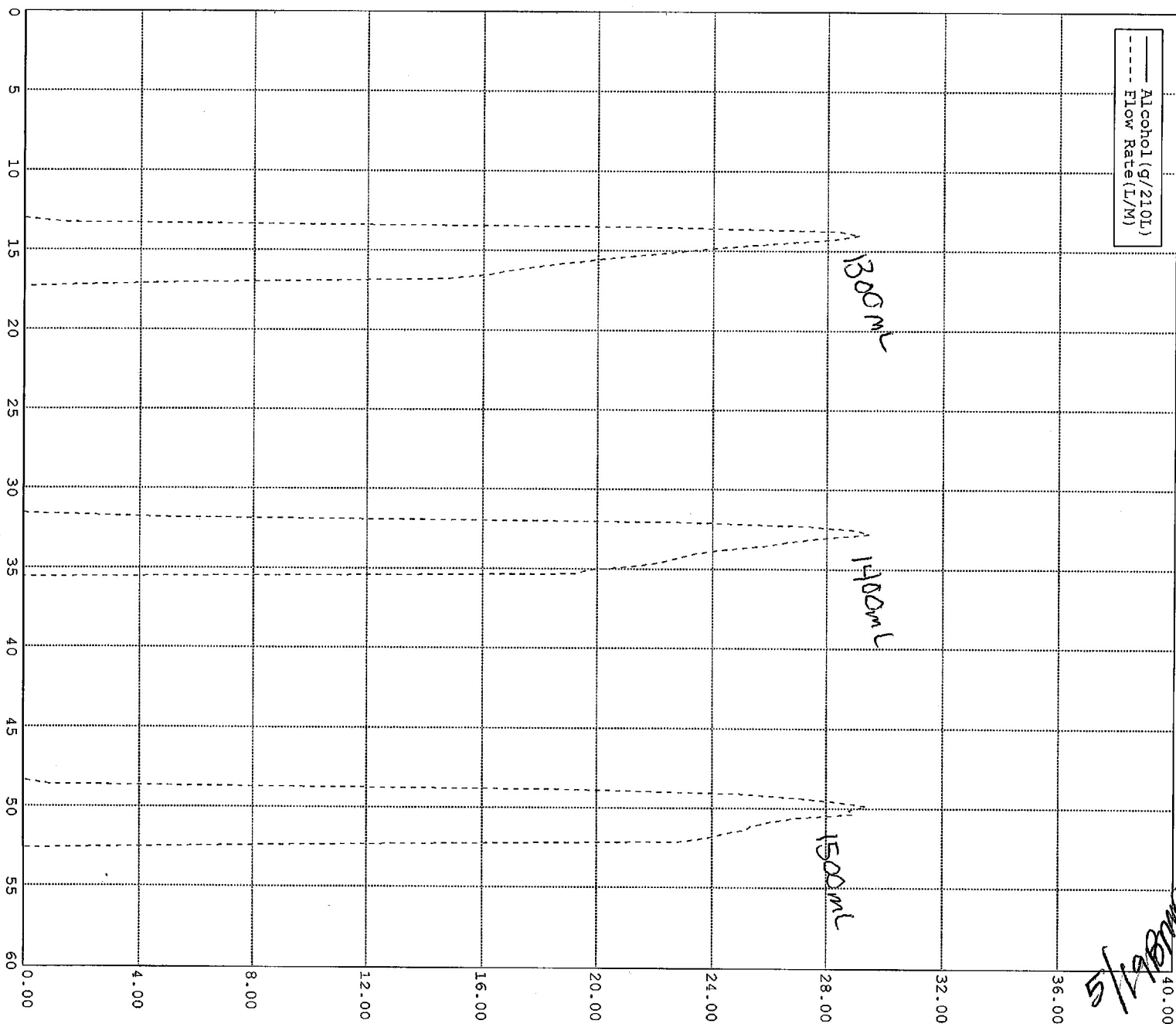
a31 = 0.478868 0.300 <= a31 < 0.800

4/19/2012

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100681Date: 05/14/2012
Time: 13:38:14SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
MINIMUM VOLUME
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:39
BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:39
EXTERNAL STANDARD	0.080	13:39
BLANK TEST	0.000	13:40
SUBJECT SAMPLE	0.000	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.081	13:42
BLANK TEST	0.000	13:43



LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dmt: 100681

Date: 05/14/2012

Time: 14:01:06

SUPERVISOR NAME:

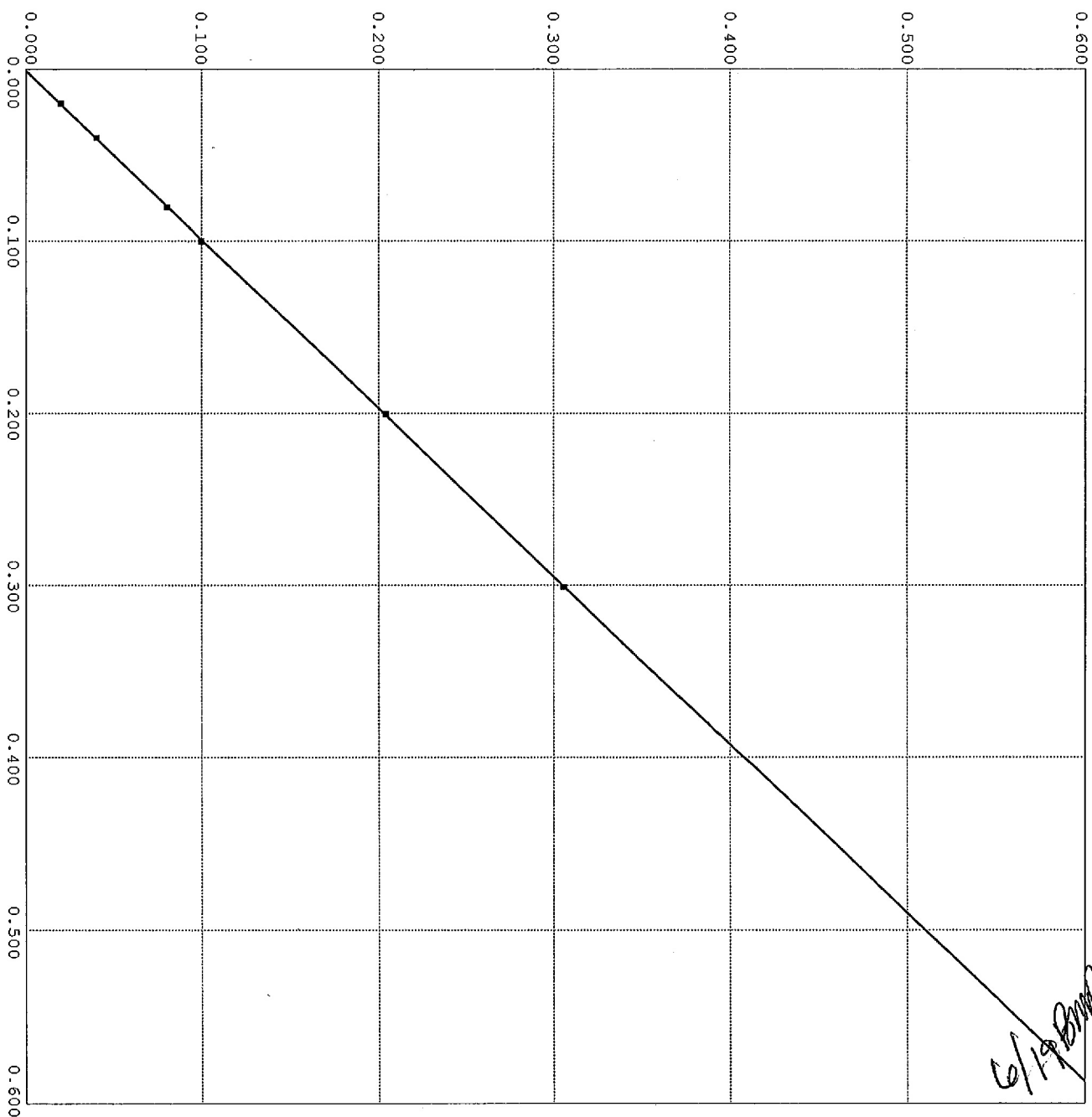
BRANDI BARNETT

OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0002
0.040	0.0408	0.0002
0.080	0.0810	0.0002
0.100	0.1008	0.0004
0.200	0.2049	0.0006
0.300	0.3065	0.0003

SLOPE

= 1.023791

R² = 0.999967

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100681

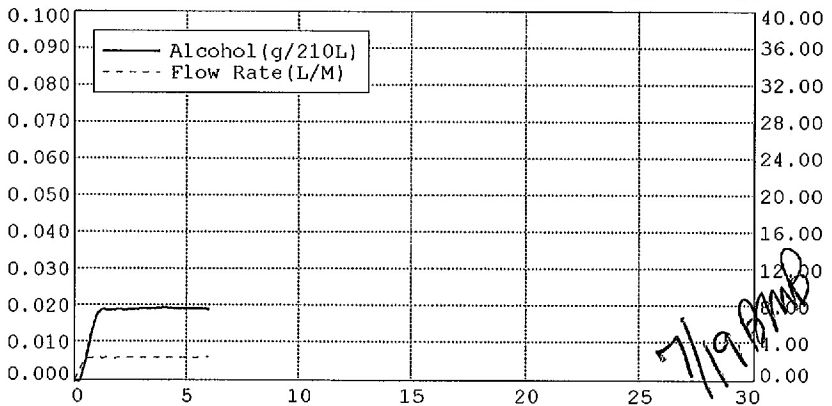
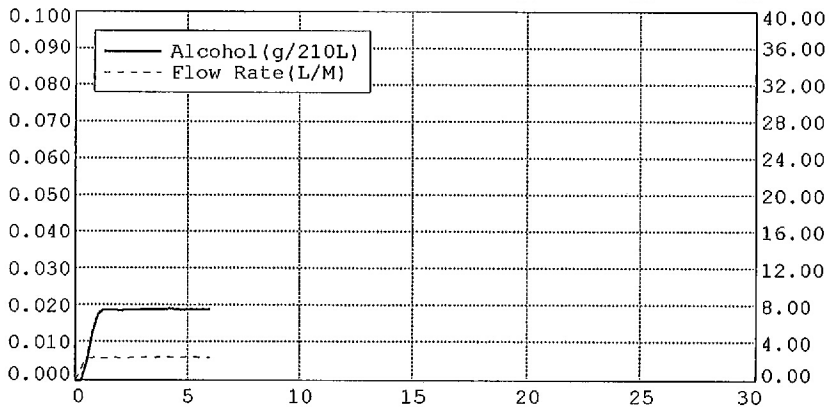
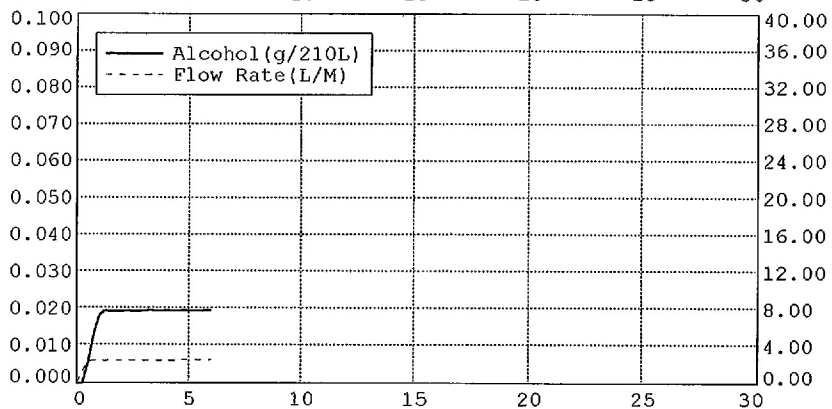
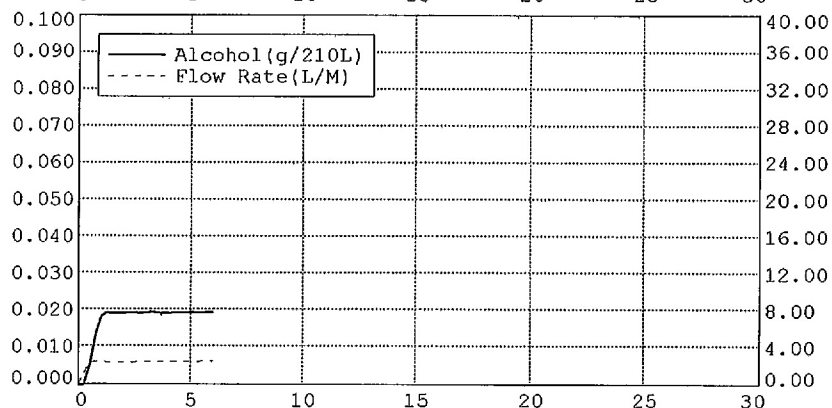
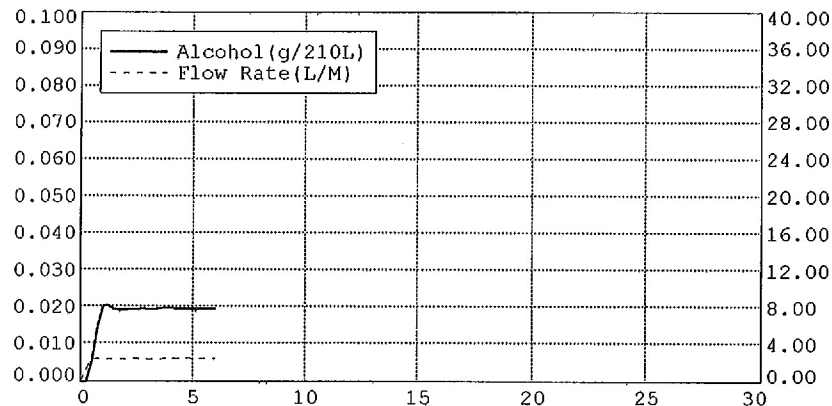
Date: 05/14/2012
Time: 14:01:07

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.94: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:02
INTERNAL STANDARD	VERIFIED	14:02
EXTERNAL STANDARD	0.020	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.020	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.020	14:04
BLANK TEST	0.000	14:05
EXTERNAL STANDARD	0.020	14:05
BLANK TEST	0.000	14:06
EXTERNAL STANDARD	0.020	14:06
BLANK TEST	0.000	14:07

Average = 0.0204
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100681

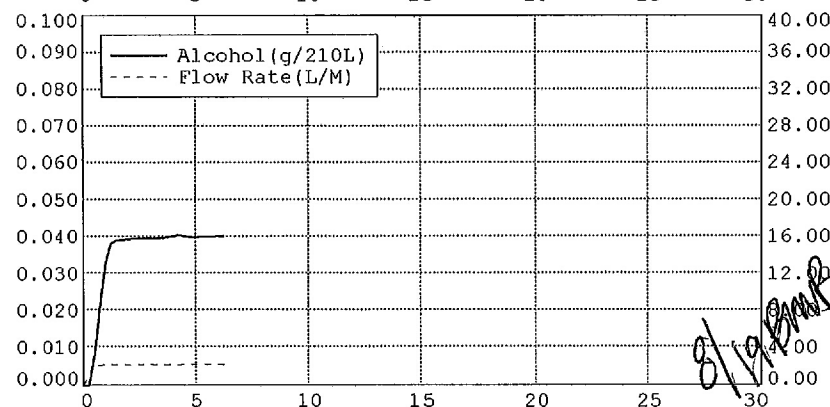
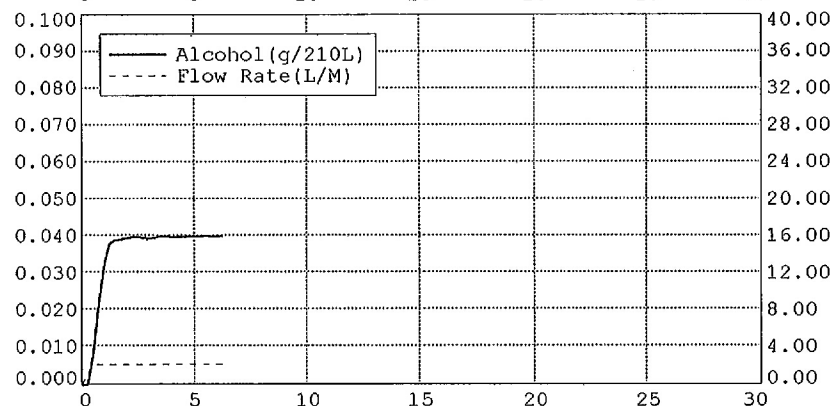
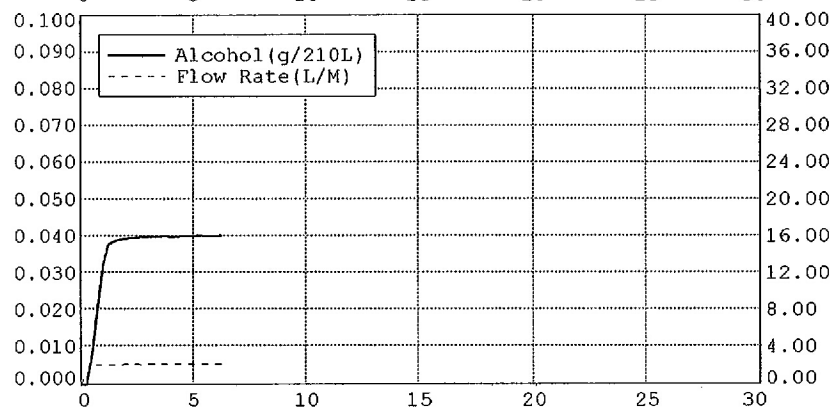
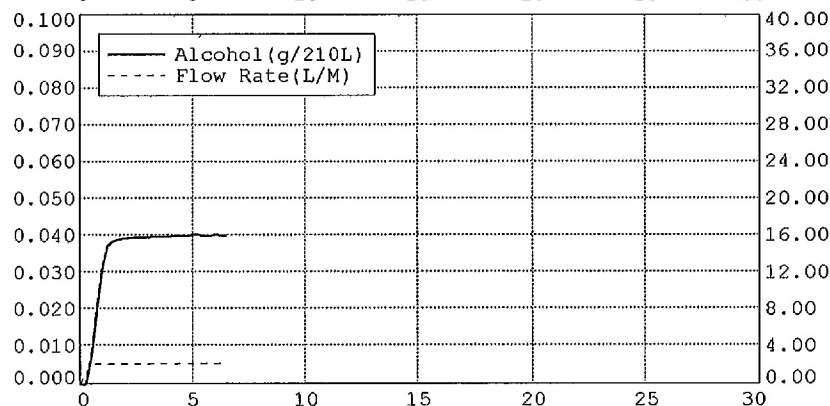
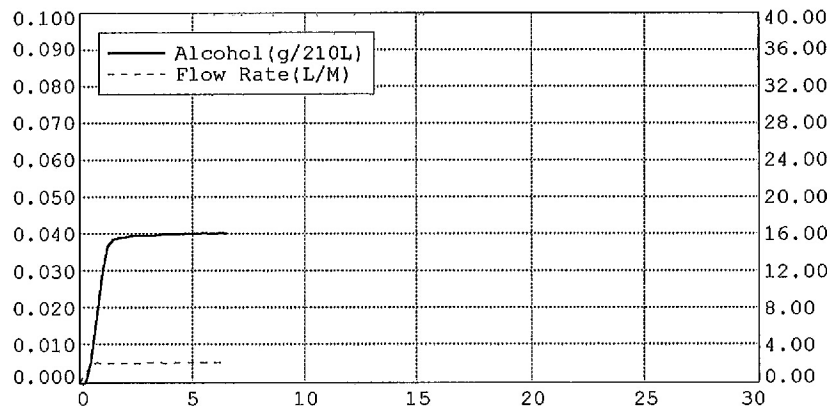
Date: 05/14/2012
Time: 14:12:48

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.93: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:13
INTERNAL STANDARD	VERIFIED	14:13
EXTERNAL STANDARD	0.041	14:14
BLANK TEST	0.000	14:15
EXTERNAL STANDARD	0.040	14:15
BLANK TEST	0.000	14:16
EXTERNAL STANDARD	0.040	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.040	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.040	14:18
BLANK TEST	0.000	14:19

Average = 0.0408
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100681

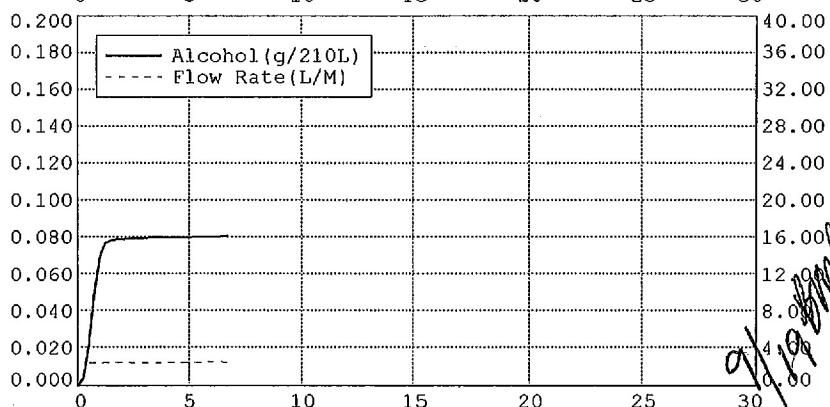
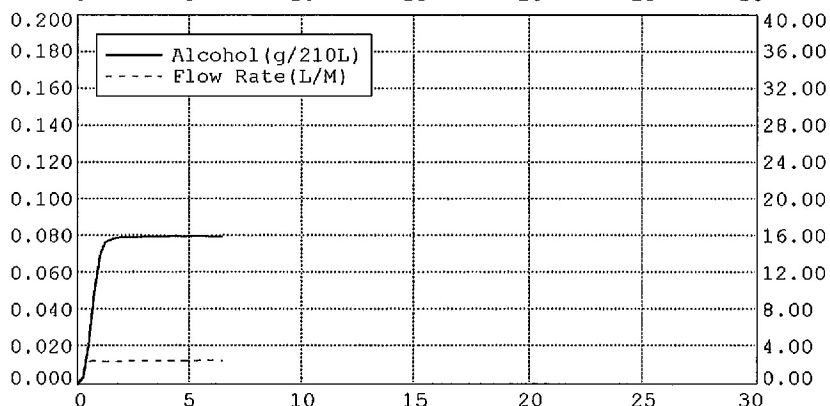
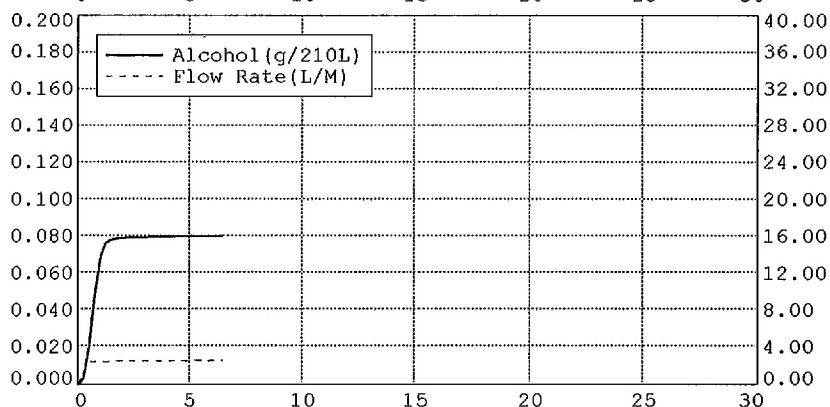
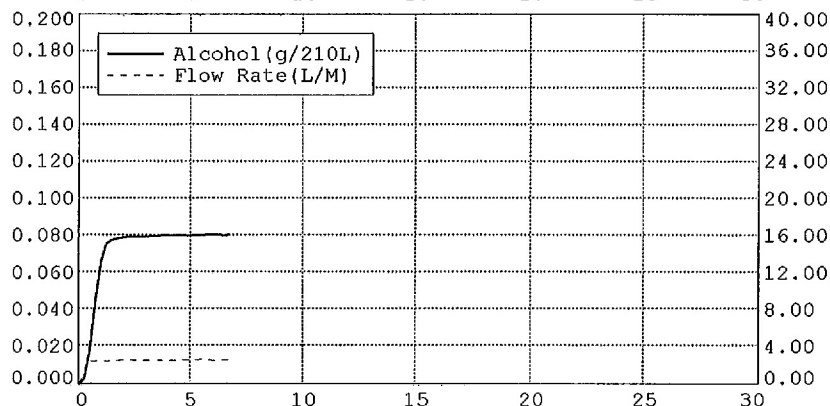
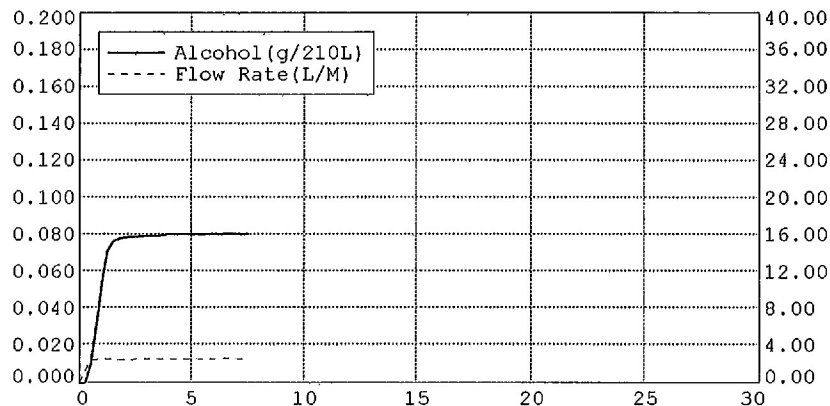
Date: 05/14/2012
Time: 14:22:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:24
INTERNAL STANDARD	VERIFIED	14:24
EXTERNAL STANDARD	0.081	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.081	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.080	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.080	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.081	14:28
BLANK TEST	0.000	14:29

Average = 0.0810
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100681

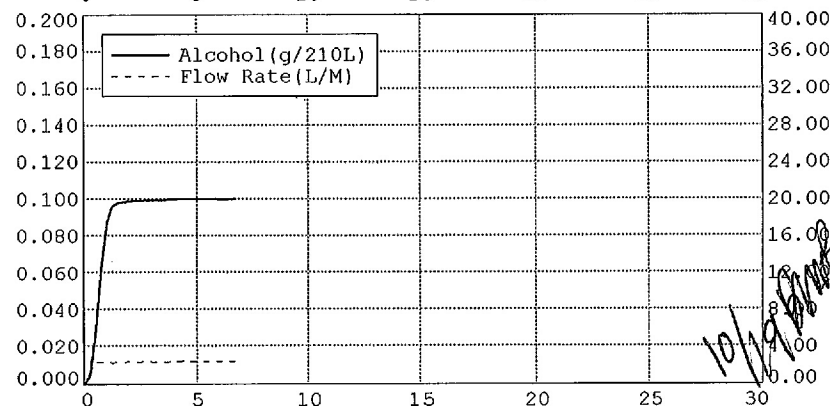
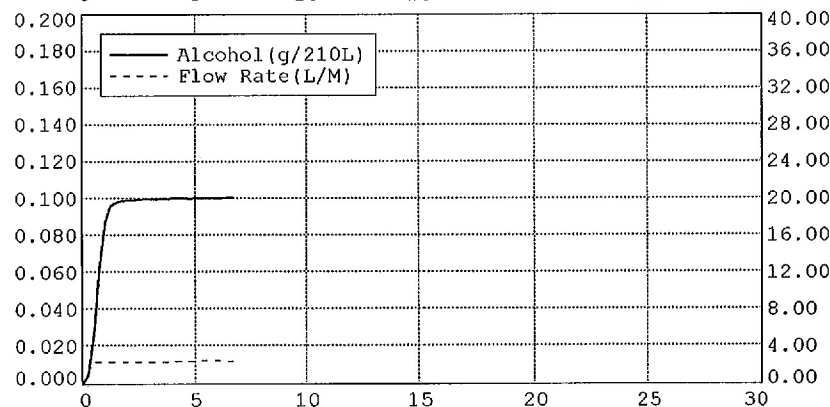
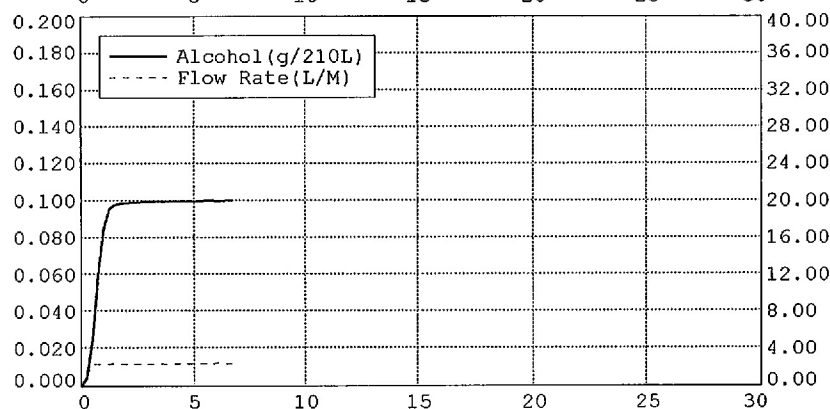
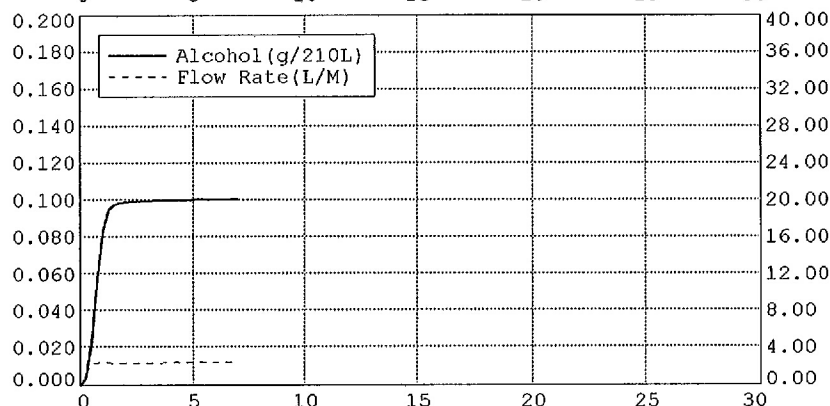
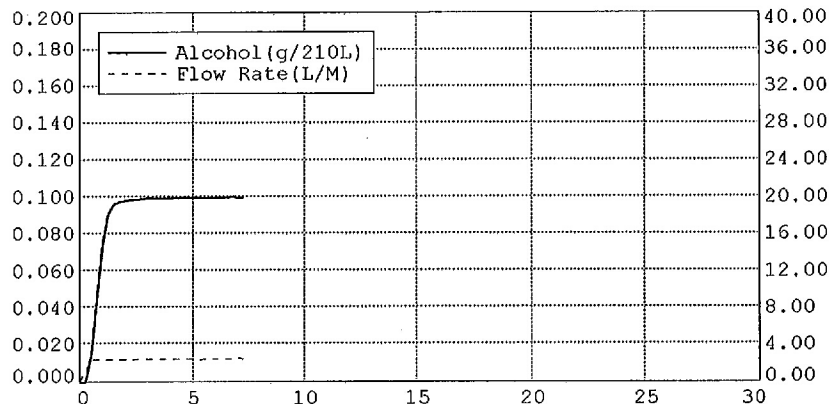
Date: 05/14/2012
Time: 14:32:59

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.94: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:34
INTERNAL STANDARD	VERIFIED	14:34
EXTERNAL STANDARD	0.100	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.101	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.100	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.101	14:37
BLANK TEST	0.000	14:38
EXTERNAL STANDARD	0.100	14:38
BLANK TEST	0.000	14:39

Average = 0.1008
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

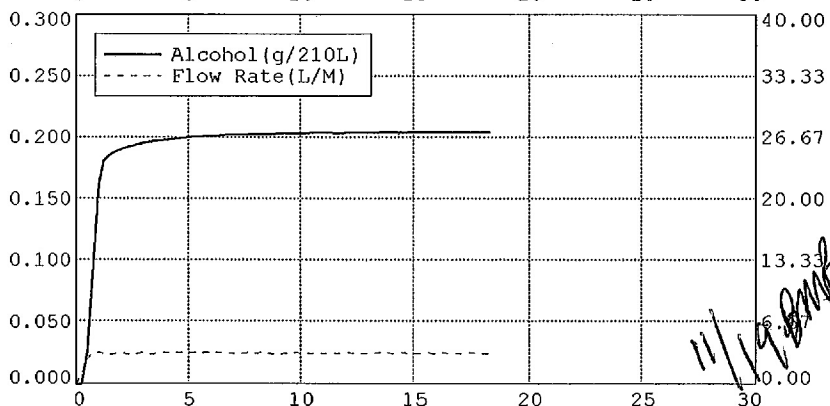
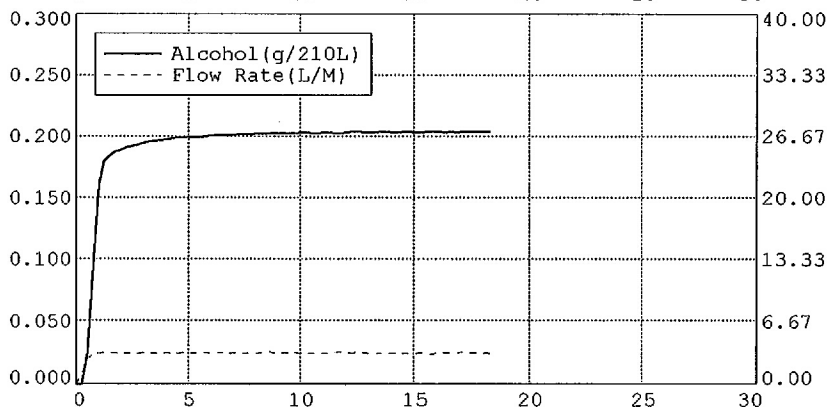
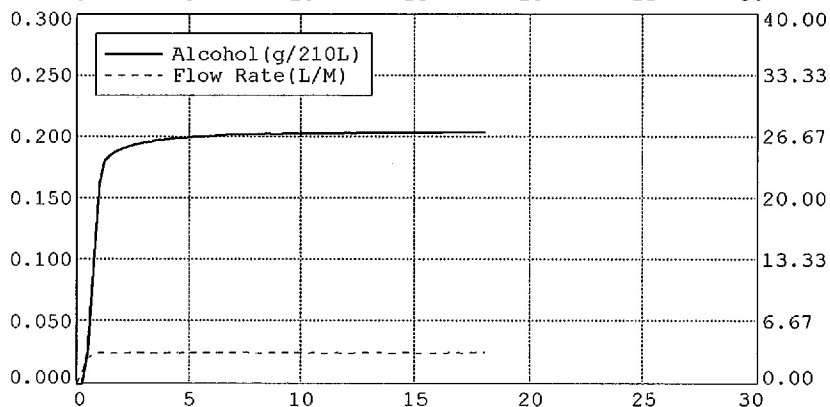
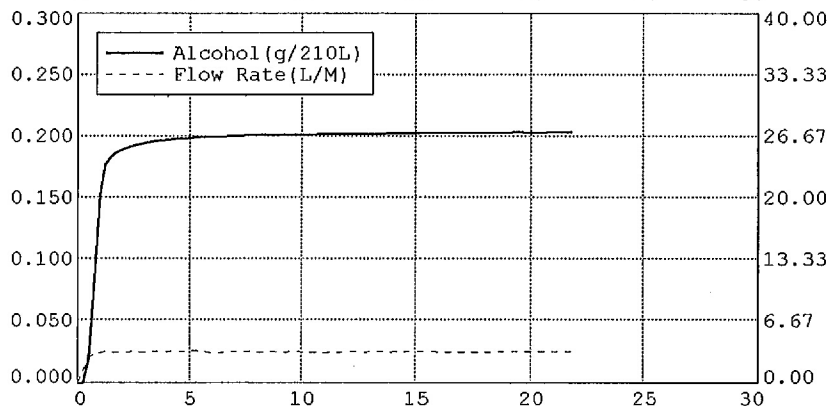
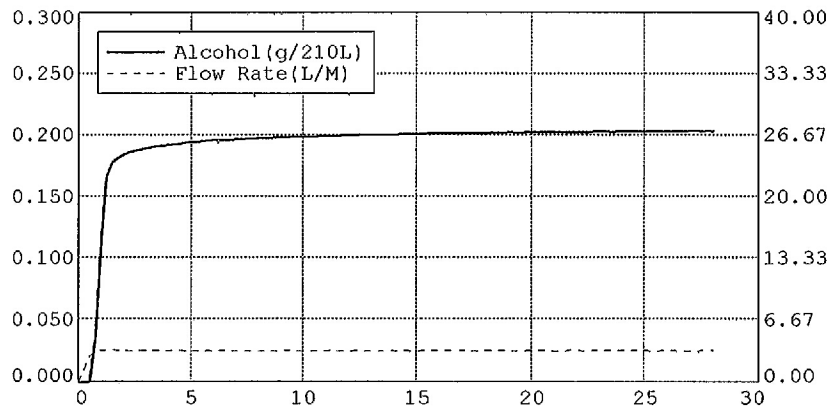
Alaska Department of Public Safety
DATAMASTER dmt: 100681

Date: 05/14/2012
Time: 14:40:05

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

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.204	14:42
BLANK TEST	0.000	14:43
EXTERNAL STANDARD	0.204	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.204	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.205	14:46
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.205	14:47
BLANK TEST	0.000	14:48

Average = 0.2049
Std Dev = 0.0006



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100681

Date: 05/14/2012
Time: 14:53:09

EXTERNAL STANDARD INFORMATION

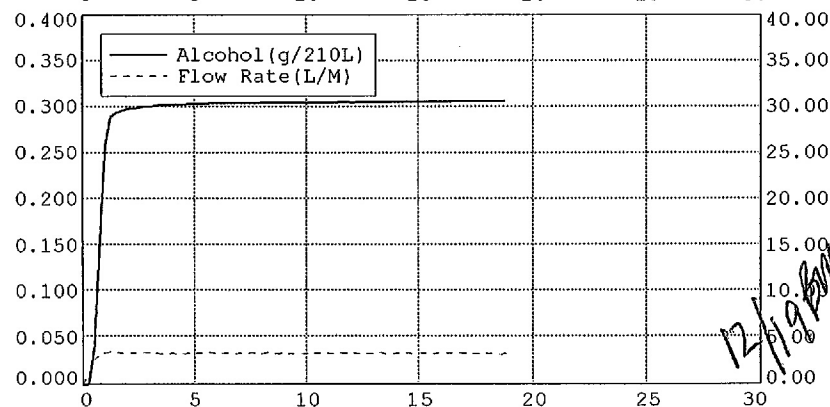
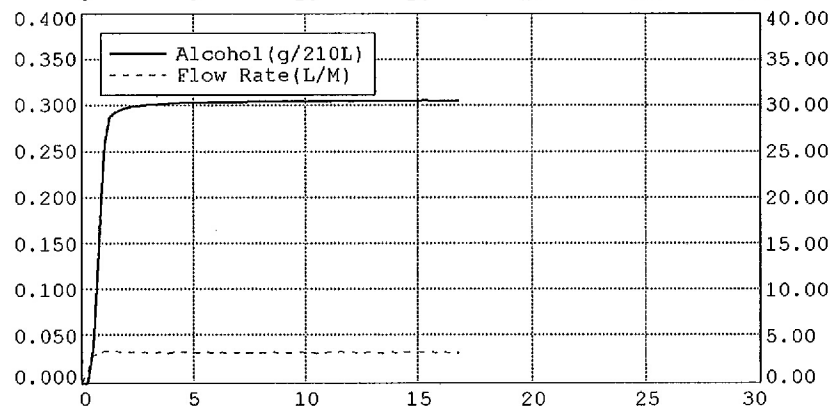
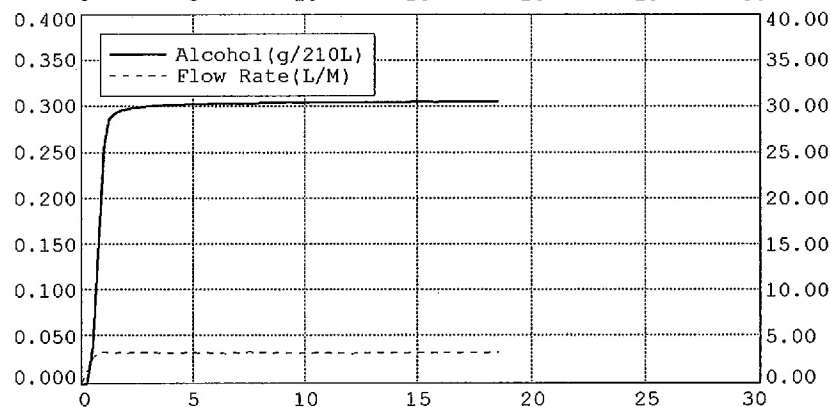
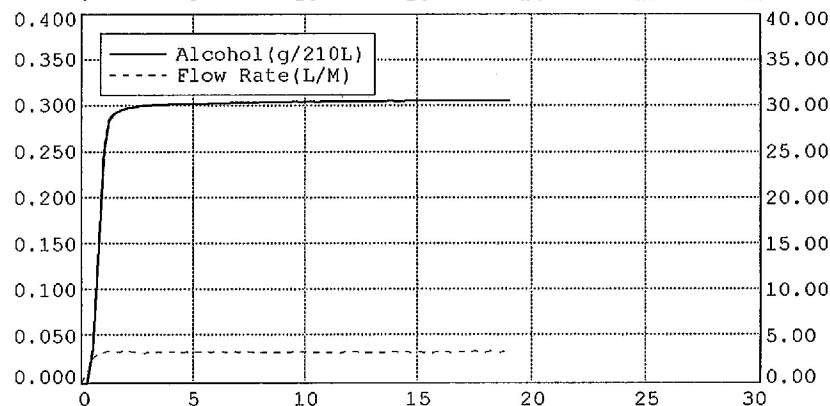
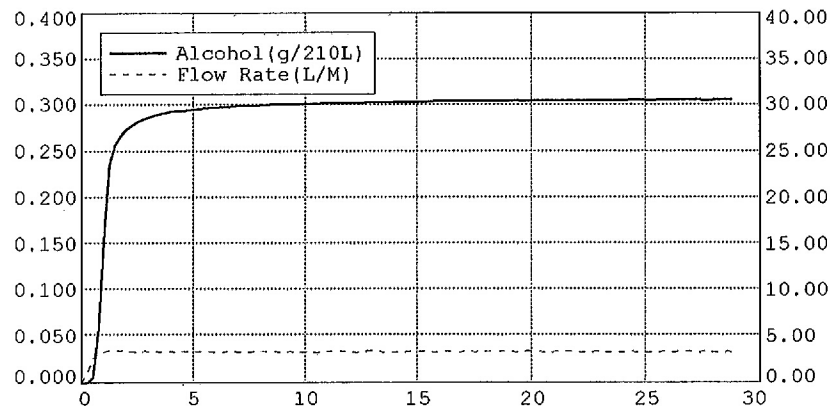
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:54
EXTERNAL STANDARD	0.306	14:54
BLANK TEST	0.000	14:55
EXTERNAL STANDARD	0.306	14:56
BLANK TEST	0.000	14:57
EXTERNAL STANDARD	0.306	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.306	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.306	15:00
BLANK TEST	0.000	15:01

Average = 0.3065
Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100681

Date: 05/16/2012
 Time: 09:30:34

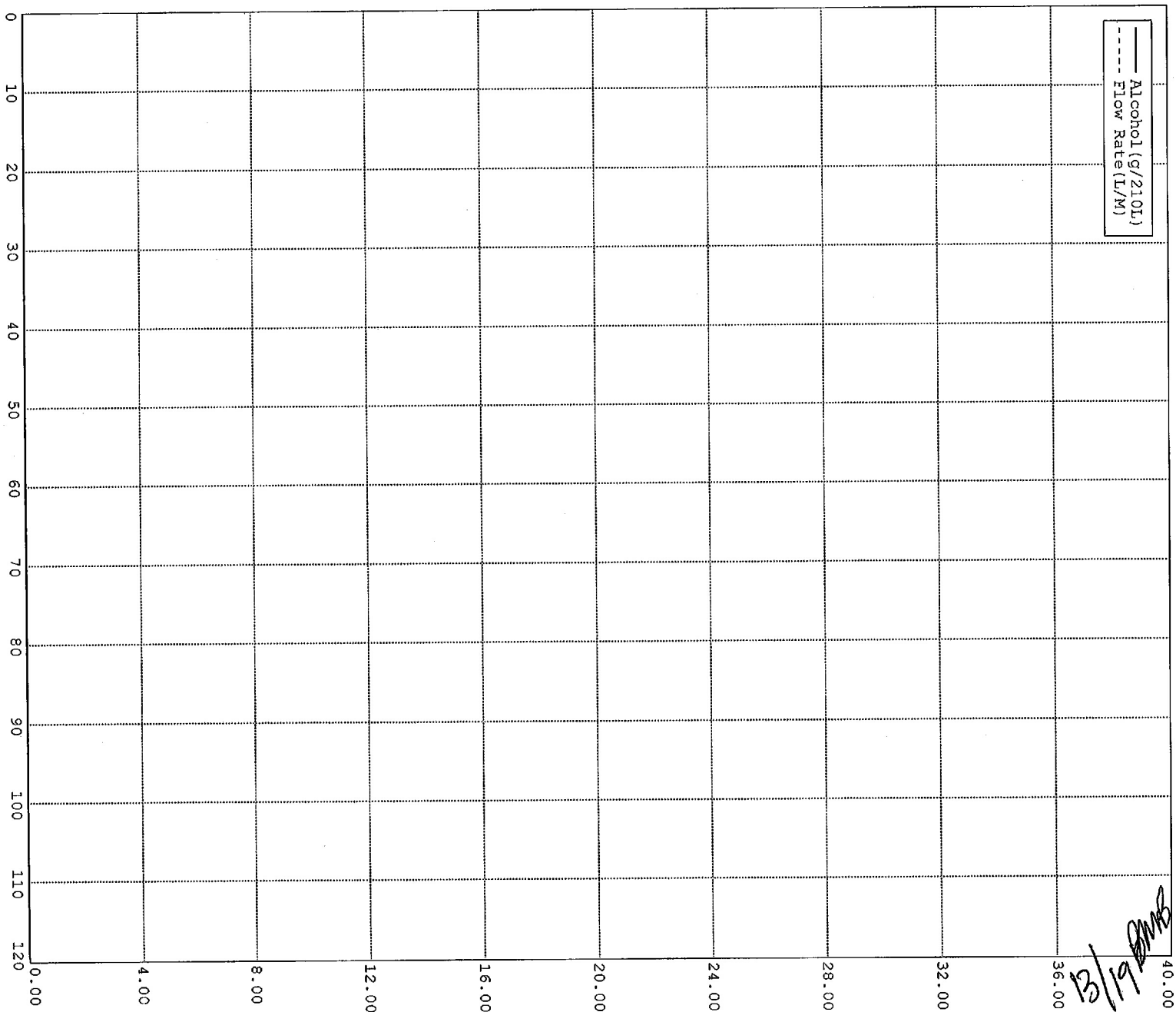
SUBJECT NAME:
 TEST TEST
 LICENSE #: INCOMPLETE

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.25: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:33
BLANK TEST	0.000	09:33
INTERNAL STANDARD	VERIFIED	09:33
EXTERNAL STANDARD	0.082	09:33
BLANK TEST	0.000	09:34
SUBJECT SAMPLE	INCOMPLETE	09:36



Handwritten signature and date: 5/16/12

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100681

Date: 05/16/2012
Time: 10:29:00

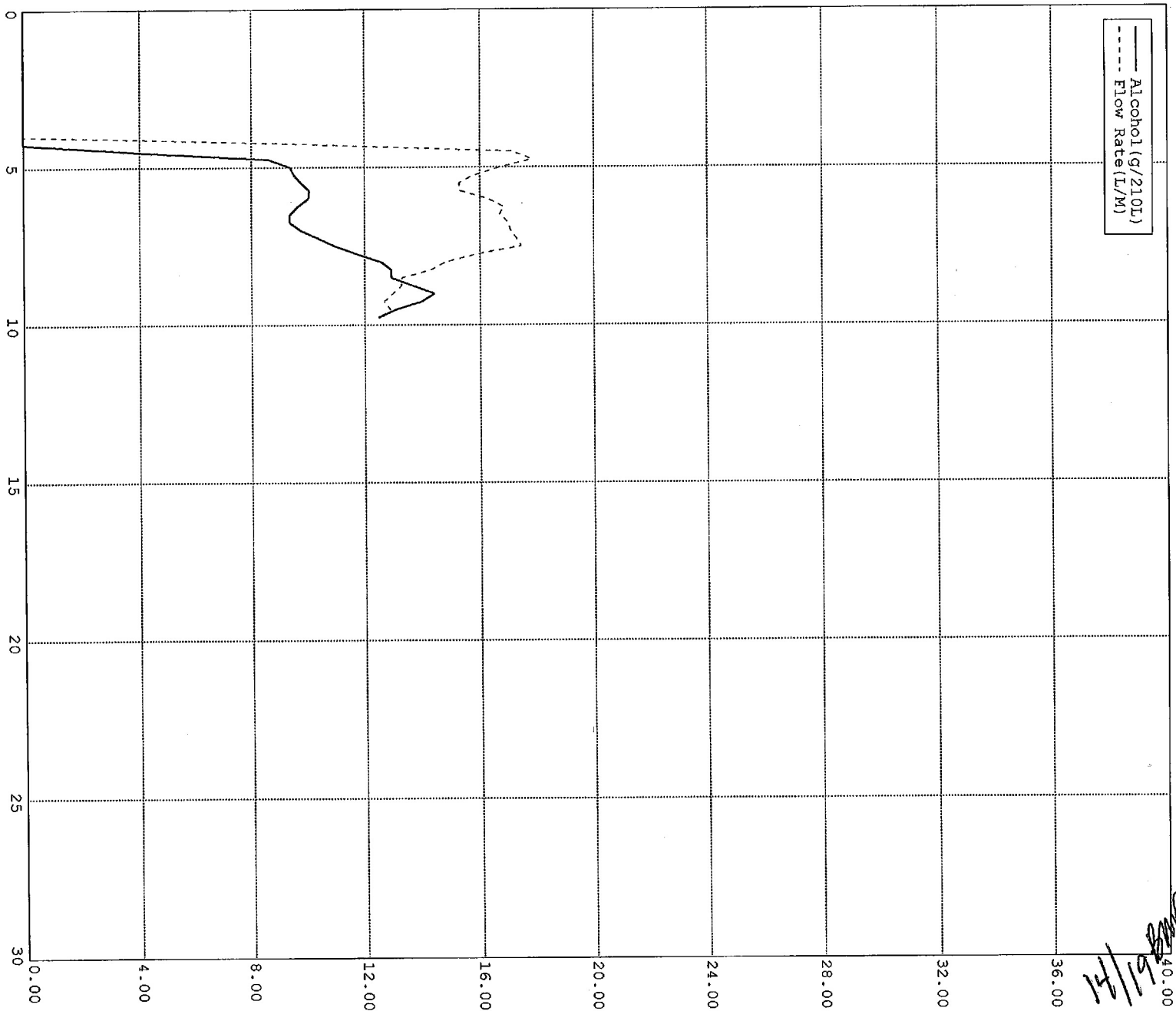
SUBJECT NAME:
TEST TEST
LICENSE #: INVALID

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 30.24: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:30
BLANK TEST	0.000	10:30
INTERNAL STANDARD	VERIFIED	10:30
EXTERNAL STANDARD	0.081	10:31
BLANK TEST	0.000	10:32
SUBJECT SAMPLE	INVALID	10:32



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100681

Date: 05/16/2012
Time: 10:34:52

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

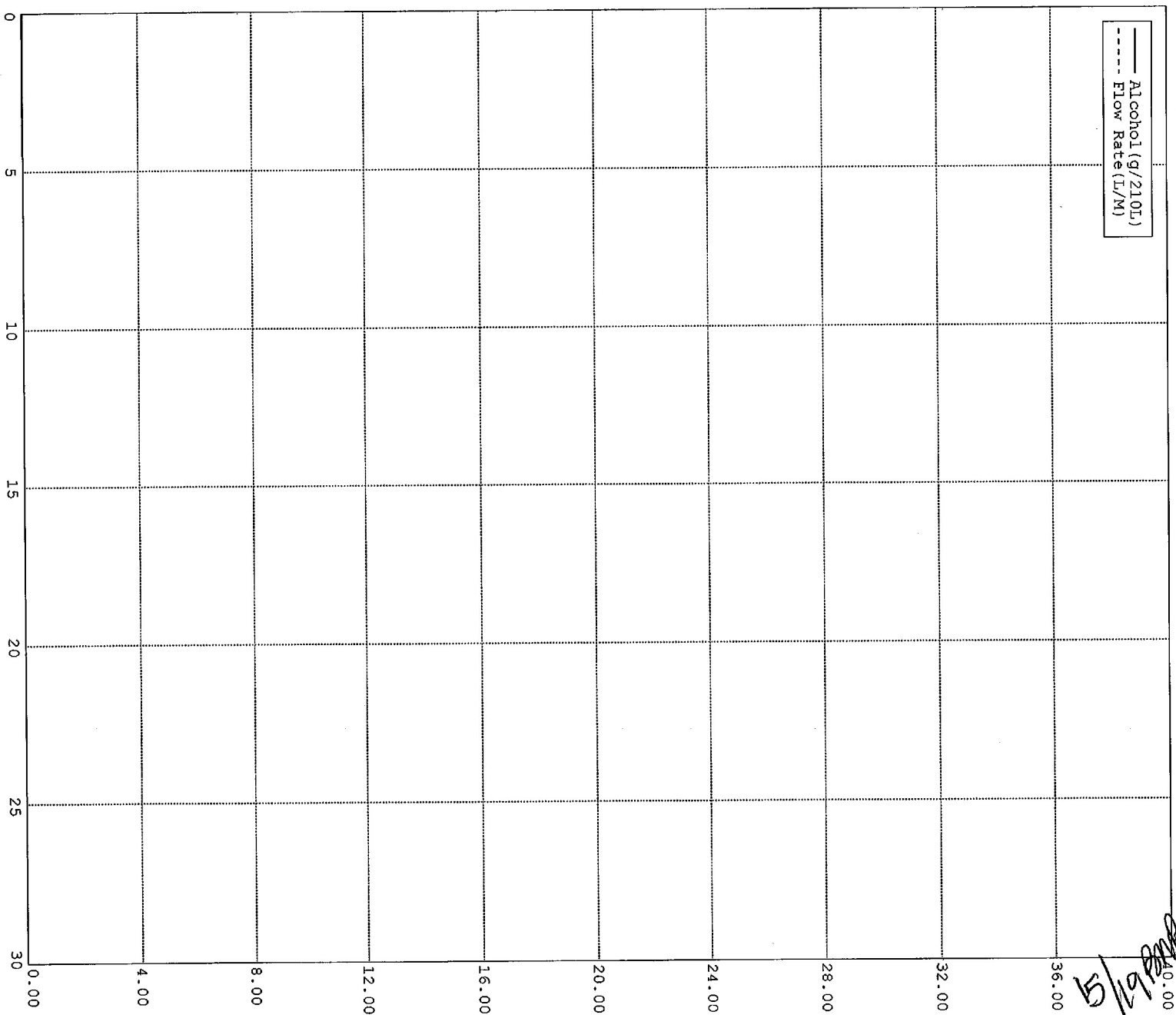
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.23: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:36
BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.081	10:36
BLANK TEST	0.000	10:37

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100681

Date: 05/16/2012
 Time: 13:24:46

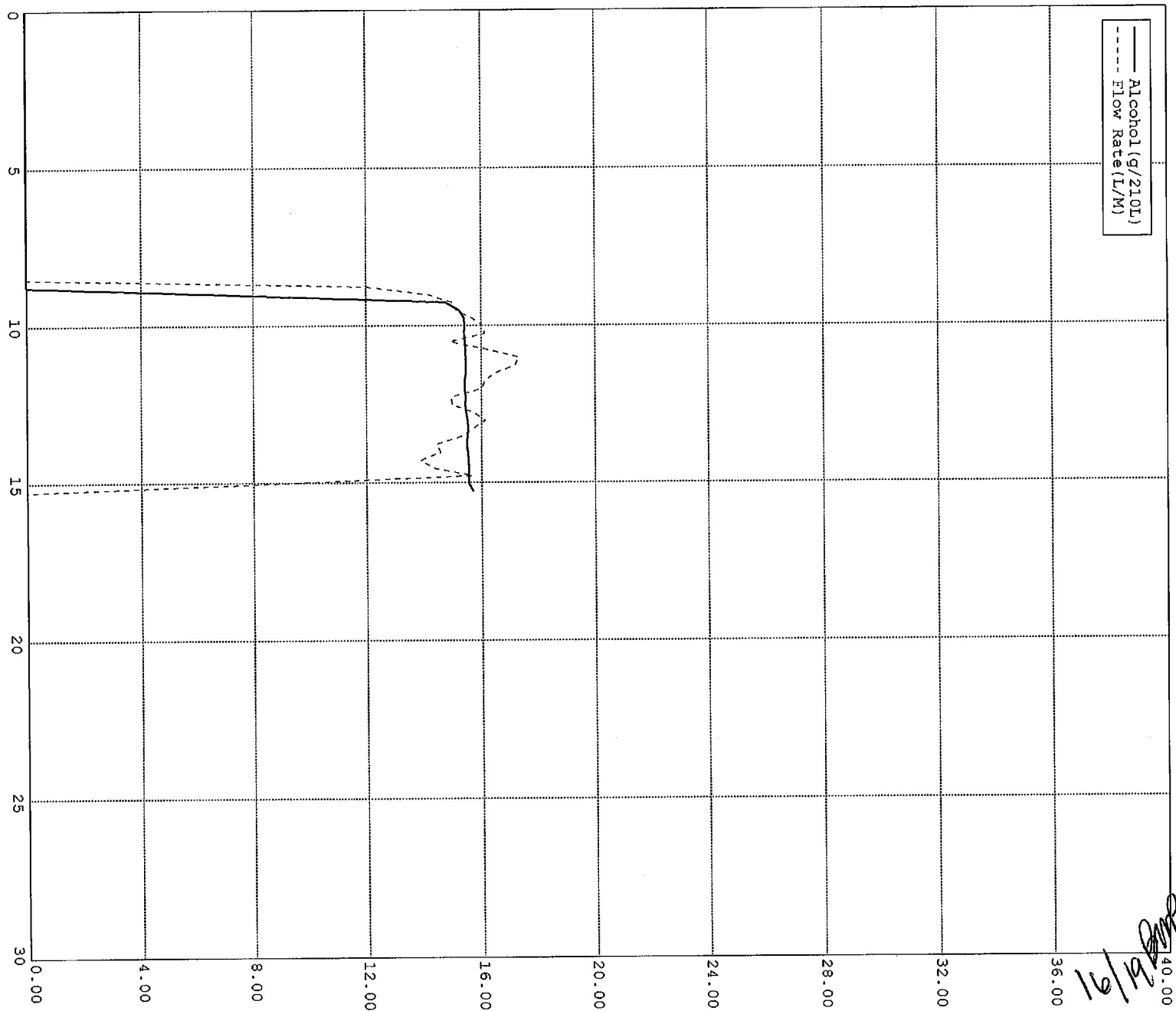
SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE

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 30.20: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:25
BLANK TEST	0.000	13:25
INTERNAL STANDARD	VERIFIED	13:26
Xq = 0.106 (0.90%)		
EXTERNAL STANDARD	0.081	13:26
X[l] = 0.0815 (0.0013)	(0.0009)	
BLANK TEST	0.000	13:27
SUBJECT SAMPLE	INTERFERENCE	13:27
X[l] = 0.0788 (-0.0122)	(-0.0008)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100681

Date: 05/16/2012
 Time: 13:36:51

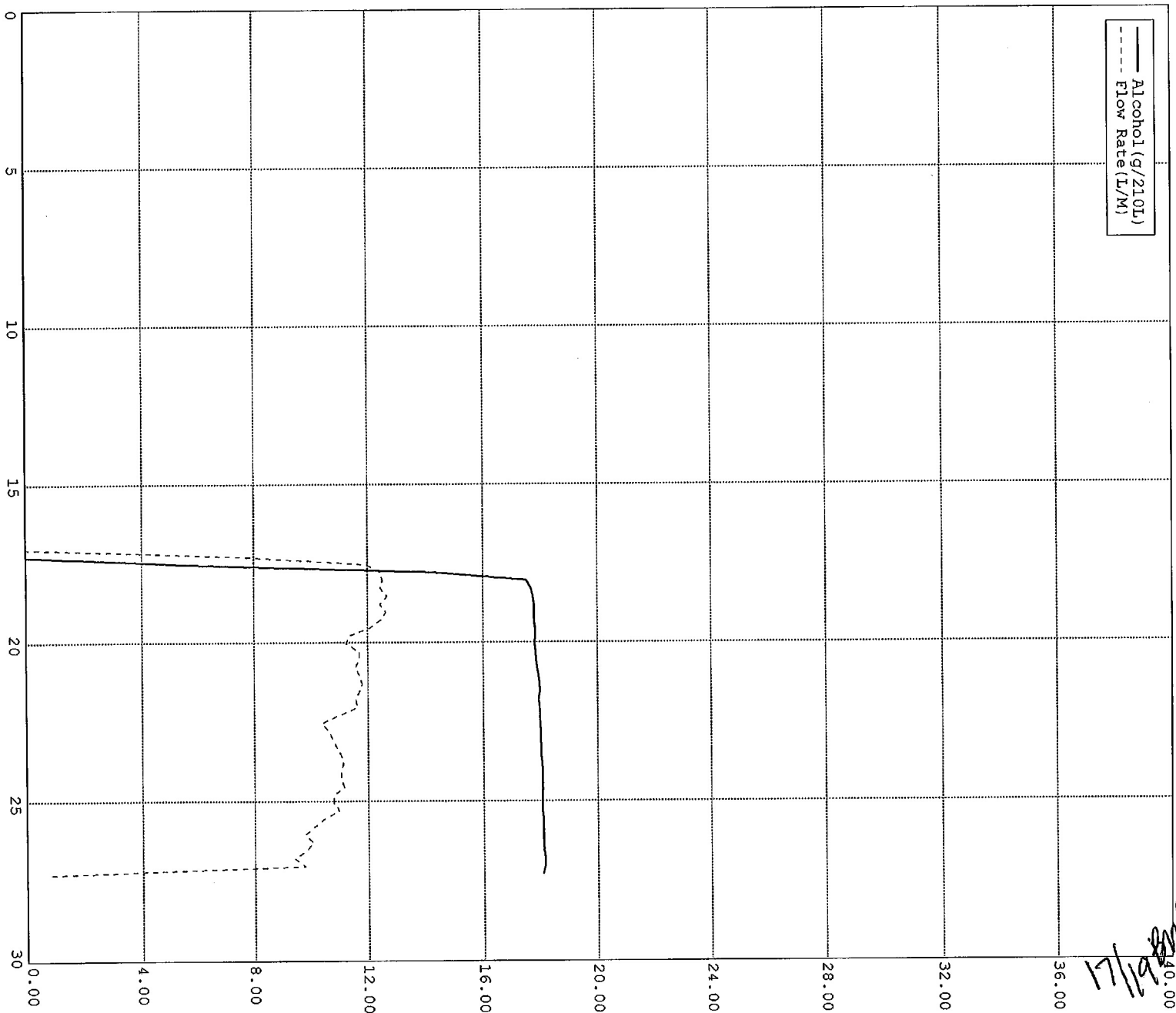
SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.20: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 13:37
 BLANK TEST 0.000 13:38
 INTERNAL STANDARD VERIFIED 13:38
 $X_Q = 0.107$ (0.25%) 0.081 13:38
 EXTERNAL STANDARD 0.0004) 0.000 13:39
 $X[1] = 0.0818$ (0.0018) 0.000 13:39
 BLANK TEST 0.000 13:39
 SUBJECT SAMPLE INTERFERENCE 13:39
 $X[1] = 0.0912$ (-0.0217) (-0.0005)



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100681

Date: 05/16/2012

Time: 13:41:39

SUBJECT NAME:

TEST TEST

LICENSE #: INTERFERENCE

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

NEGATIVE CONTROL

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 30.20: 0.080

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

Xg = 0.106 (0.74%)

EXTERNAL STANDARD

X[1] = 0.0818 (0.0014)

BLANK TEST

SUBJECT SAMPLE (Vol=2.05L)

X[1] = 0.0950 (-0.0011)

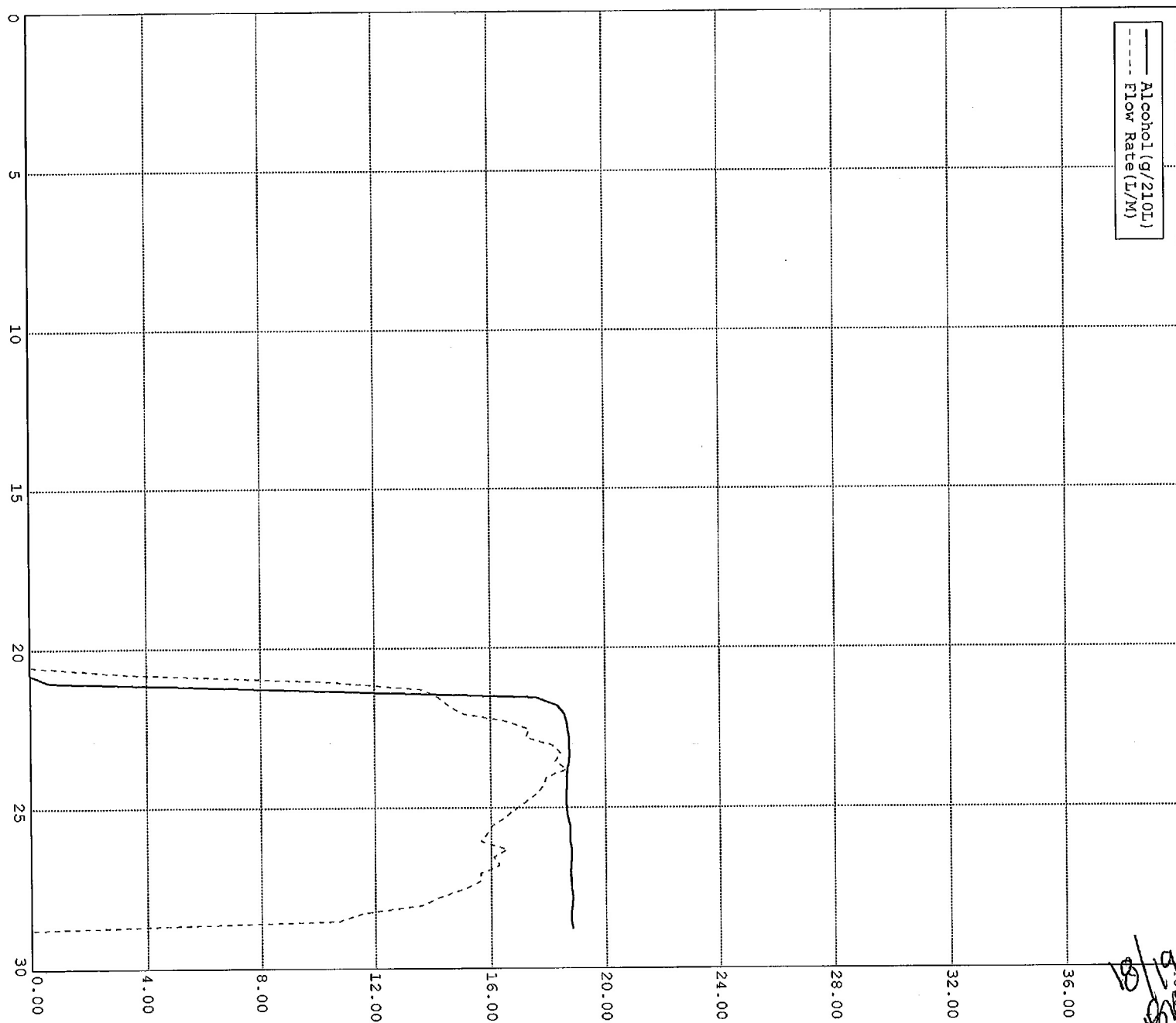
BLANK TEST

EXTERNAL STANDARD

X[1] = 0.0813 (0.0010)

BLANK TEST

	PASSED	13:42	
BLANK TEST	0.000	13:42	
INTERNAL STANDARD	VERIFIED	13:42	
Xg = 0.106 (0.74%)	0.081	13:43	
EXTERNAL STANDARD	X[1] = 0.0818 (0.0014)	0.000	13:44
BLANK TEST	0.095	13:44	
SUBJECT SAMPLE (Vol=2.05L)	0.000	13:45	
BLANK TEST	0.081	13:45	
EXTERNAL STANDARD	X[1] = 0.0813 (0.0010)	0.000	13:46
BLANK TEST			



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100681

Date: 05/16/2012

Time: 14:30:23

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

BRANDI BARNETT

OPERATOR'S #: 7038

DEPT/AGENCY:

NON DRINKING SUBJECT TEST

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 30.19: 0.080

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

BLANK TEST

EXTERNAL STANDARD

BLANK TEST

PASSED 14:32

0.000 14:32

VERIFIED 14:32

0.081 14:32

0.000 14:33

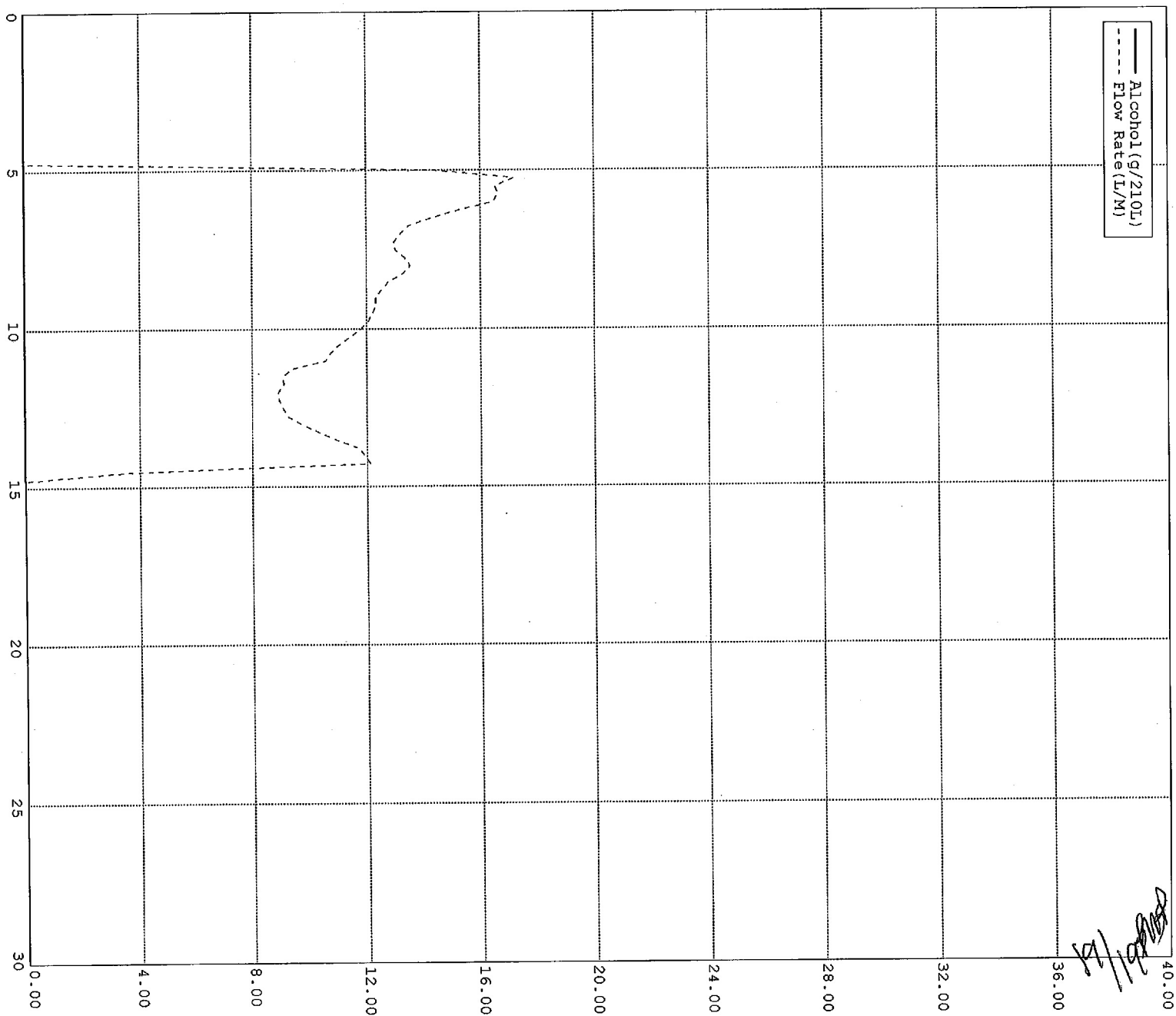
0.000 14:33

0.000 14:33

0.000 14:34

0.081 14:34

0.000 14:35



Final page for report

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11/19/2013