

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100684 Analyst Brandl 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 (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 01/17/2011
- vi. 0.300g/210L Mnf 1110 Guth Exp 07/13/13
 - 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 DR 6267 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 01/17/2011

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

Page 1 of 1

All printed copies are uncontrolled.

Approved by Forensic Alcohol Supervisor

1/19/2013

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 05/14/2012
Time: 12:54:14

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C PASSED
Breath Tube = 45.6°C PASSED

PUMP INFO

Flow Rate = 5.244 L/M PASSED

DETECTOR INFO

PUMP ON PASSED
PUMP OFF PASSED

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD PASSED

2/19/2012

Technician Screen

DATAMASTER dmt: 100684

Date: 05/14/2012
Time: 1:00 PM

Temperatures (°C)

Sample Cell: 49.4°C
Breath Tube: 44.4°C

Current Barometer 29.9 in
Volume (Ltr) 1.54

Settings

Lamp: 1.75 V
Bias: 80 V
Cooler: 1.65 V
Chopper: 539 Hz

Voltages (V)

Flow: 1.03 V
Detector: 0.077 V

3/19/2012

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100684

Date: 10/24/2011
Time: 12:32:44

Ca	=	0.0990			
CAL	=	1.010229	0.800	<=	CAL < 1.200
b1	=	0.0004	0.0000	<=	b1 < 0.0040
b2	=	0.0040	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0902	0.0500	<=	Xq < 0.2000
a21	=	1.170442	1.050	<=	a21 < 1.300
a31	=	0.530906	0.300	<=	a31 < 0.800

4/19/11

SUBJECT TEST

Alaska Department of Public Safety
 LABORATORY dnr: 100684

Date: 05/14/2012
 Time: 13:05:11

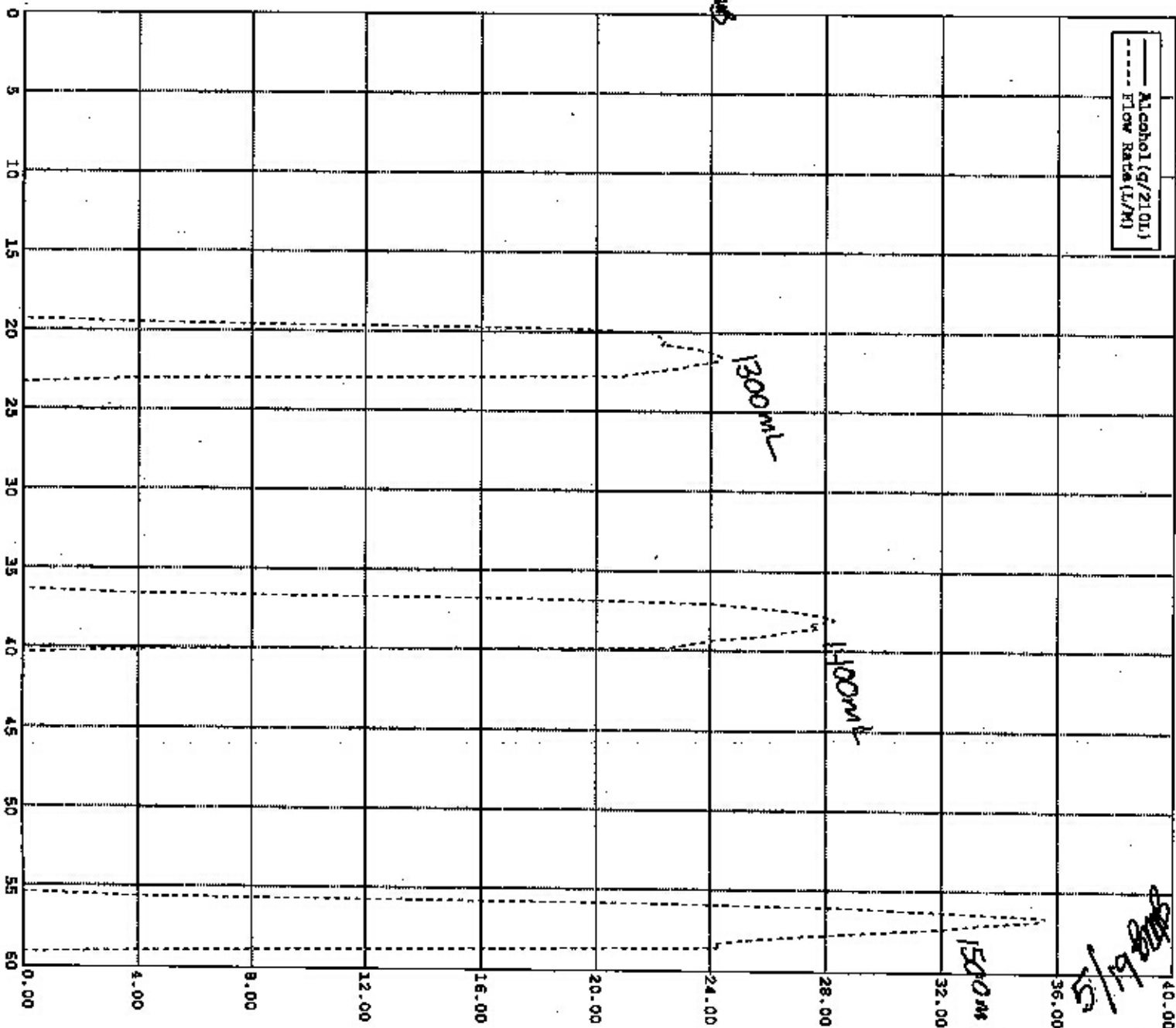
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARRETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080 Lot # 02012080A1
 TARGET AT 29.94: 0.080 Exp: 03/01/2014

DIAGNOSTIC CHECK	PASS/AD	Time
BLANK TEST	0.000	13:06
INTERNAL STANDARD	VERIFIED	13:06
EXTERNAL STANDARD	0.080	13:06
BLANK TEST	0.000	13:07
SUBJECT SAMPLE	0.000	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.080	13:09
BLANK TEST	0.000	13:10



LINERITY CHECK

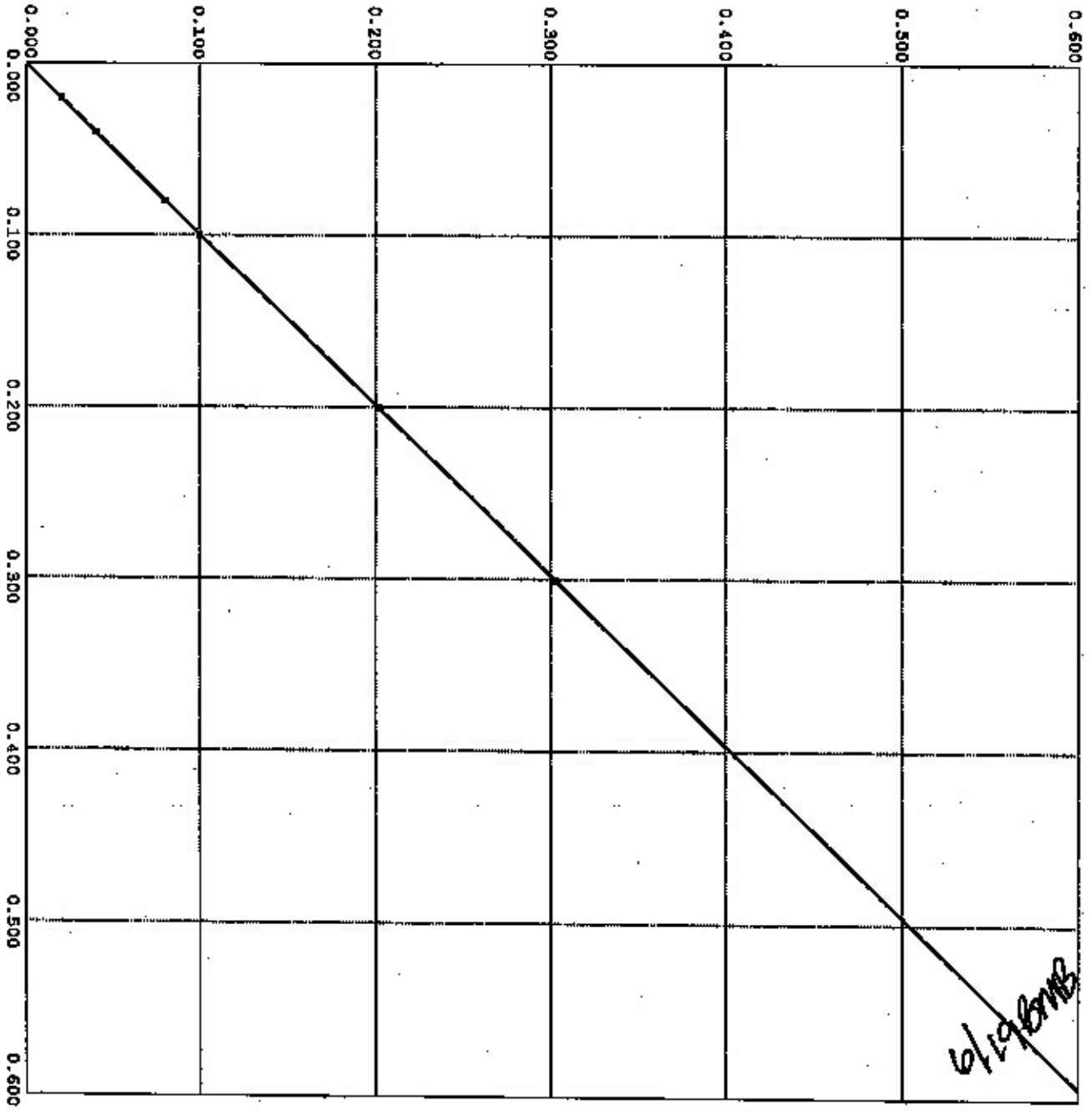
Alaska Department of Public Safety
 DATASTER dnr: 100684

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

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7938

TARGET	AVERAGE	STD. DEV.
0.020	0.0208	0.0001
0.040	0.0407	0.0001
0.080	0.0810	0.0002
0.100	0.1009	0.0003
0.200	0.2031	0.0001
0.300	0.3034	0.0003

SLOPE = 1.011284
 R² = 0.999986



LINEARITY CHECK: Control Test 1

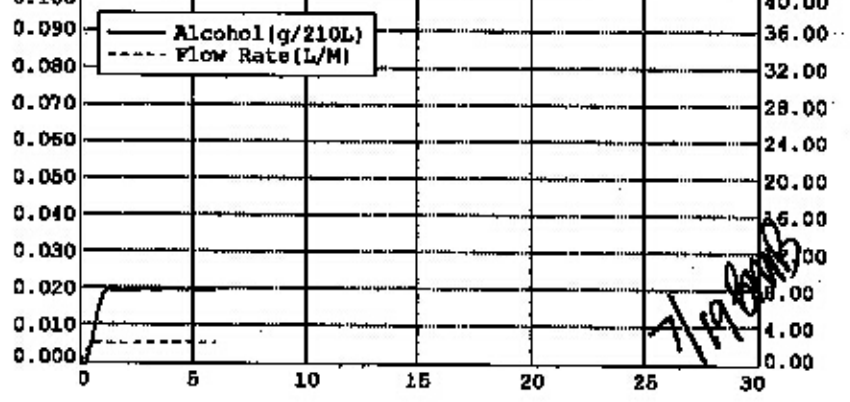
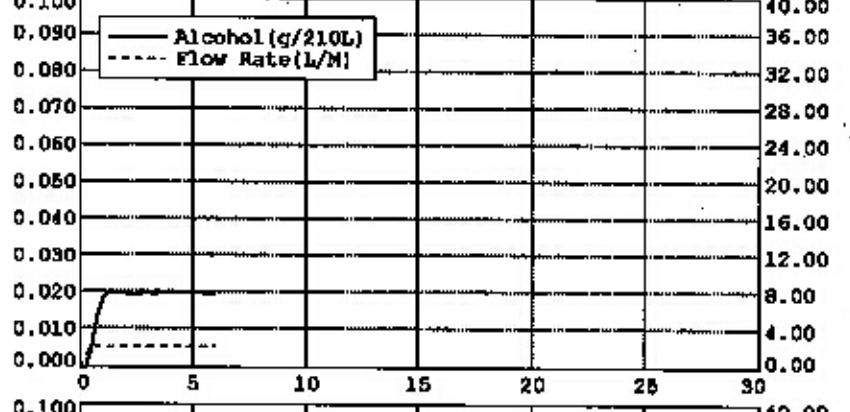
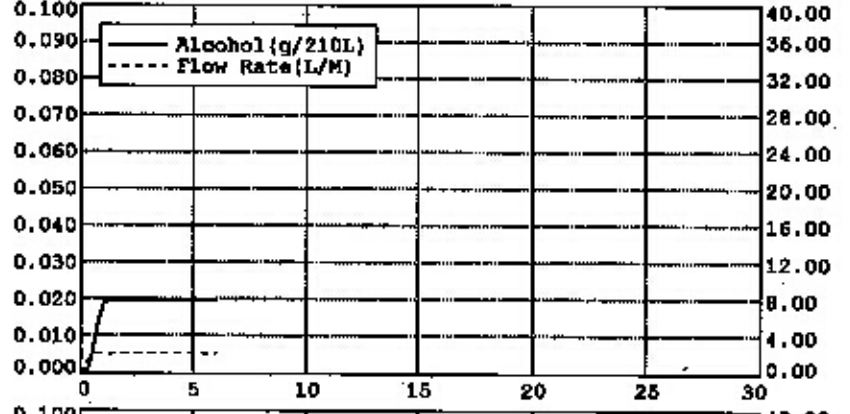
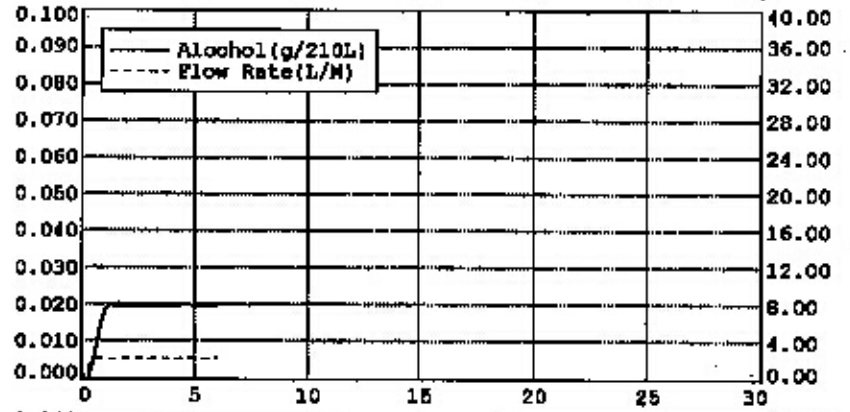
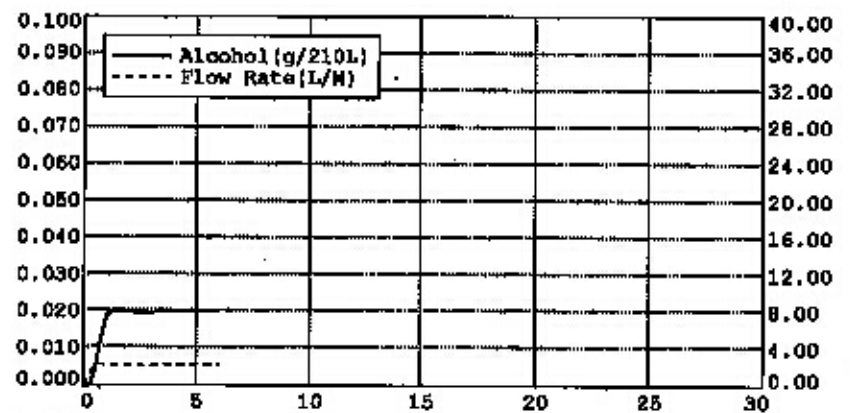
Alaska Department of Public Safety
DATAMASTER dat; 100684

Date: 05/14/2012
Time: 13:45:15

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

BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:47
EXTERNAL STANDARD	0.020	13:47
BLANK TEST	0.000	13:48
EXTERNAL STANDARD	0.020	13:48
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.021	13:49
BLANK TEST	0.000	13:50
EXTERNAL STANDARD	0.020	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.020	13:51
BLANK TEST	0.000	13:52

Average = 0.0208
Std Dev = 0.0001



LINEARITY CHECK: Control Test 2

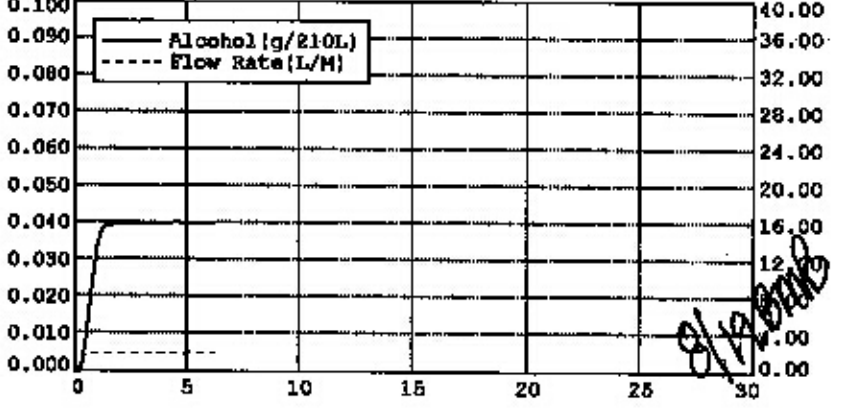
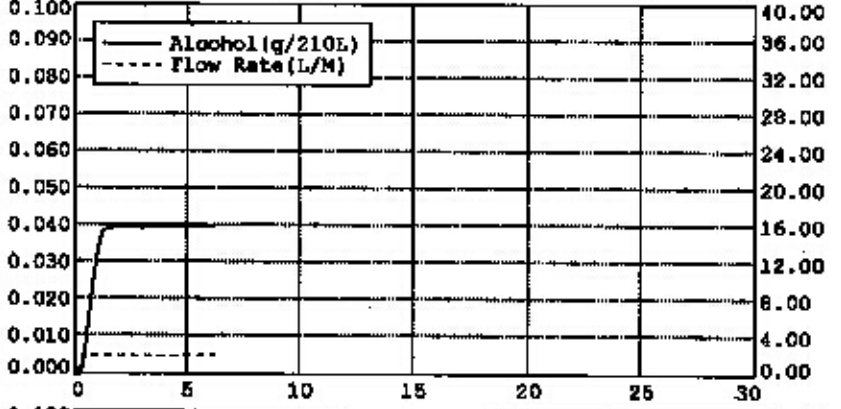
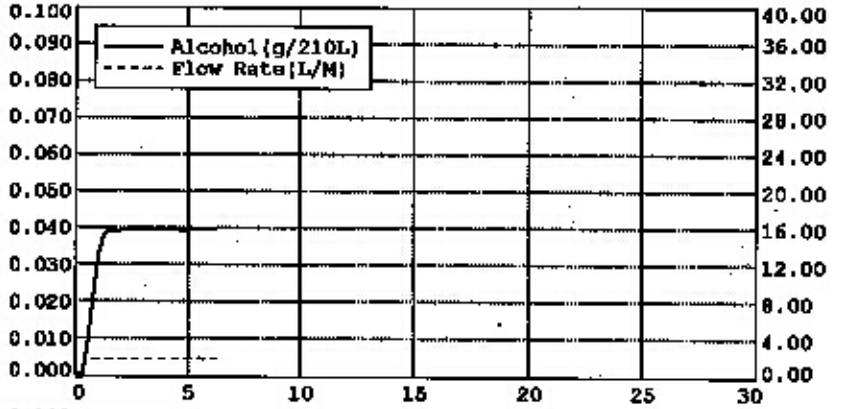
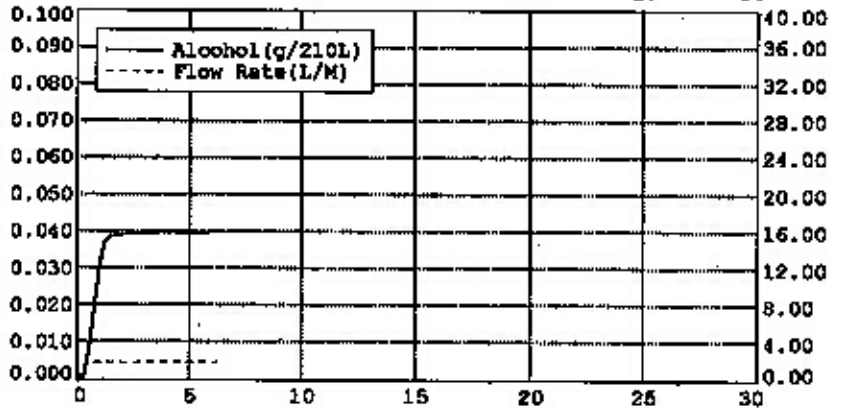
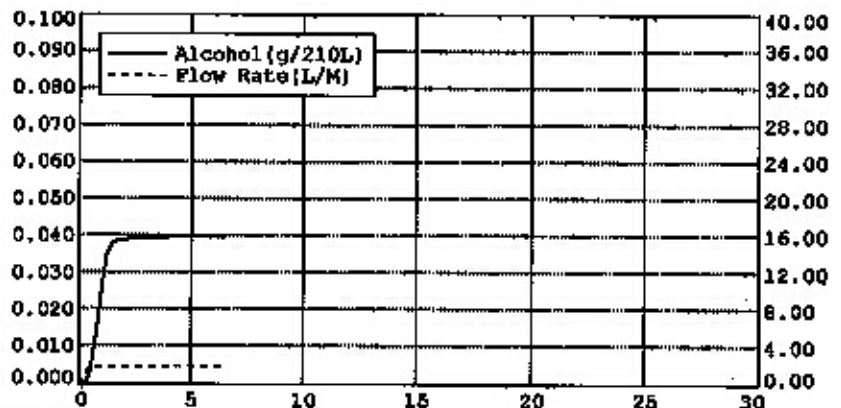
Alaska Department of Public Safety
 DATAMASTER dnt: 100684

Date: 05/14/2012
 Time: 13:58:49

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.040
 TARGET AT 29.94: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:00
INTERNAL STANDARD	VERIFIED	14:00
EXTERNAL STANDARD	0.040	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.040	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.040	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.040	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.040	14:04
BLANK TEST	0.000	14:05

Average = 0.0407
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100684

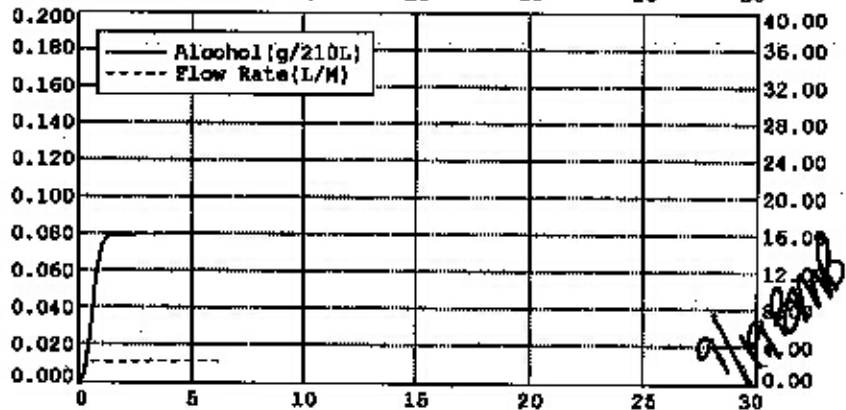
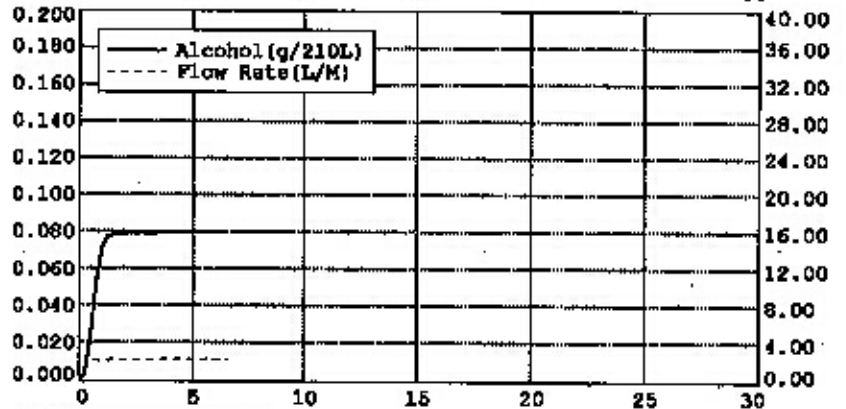
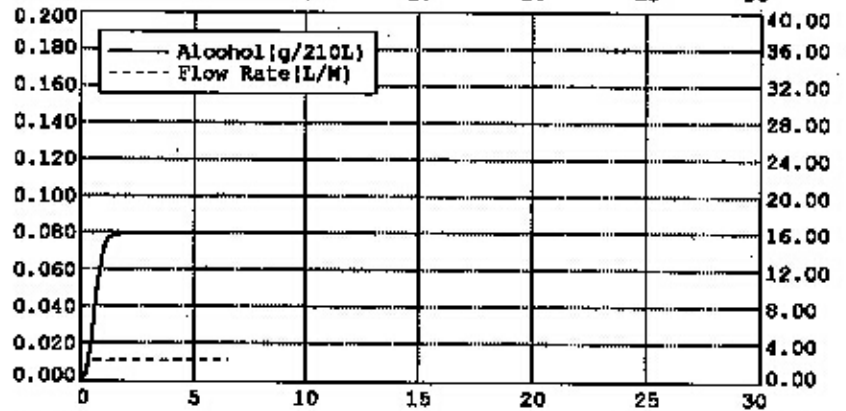
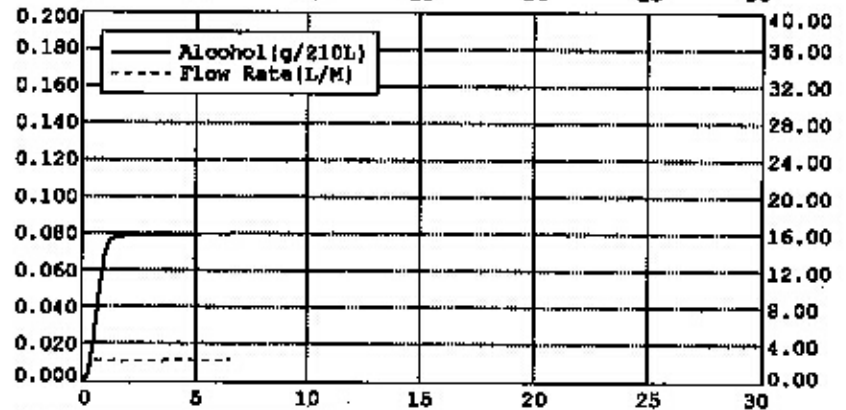
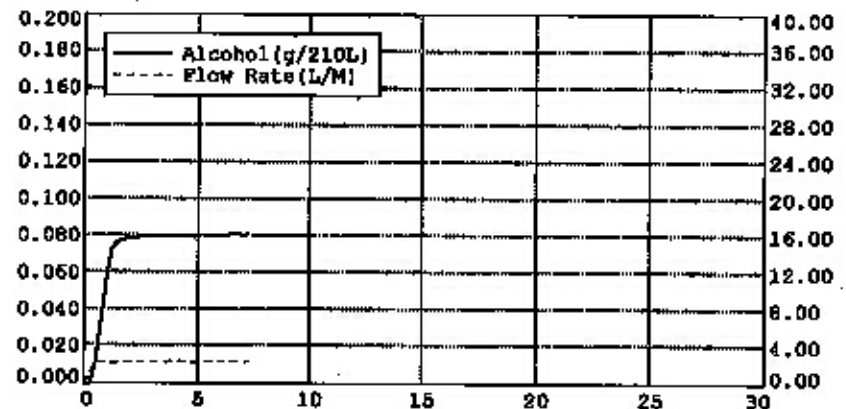
Date: 05/14/2012
Time: 14:07:00

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.94: 0.080
LOT #: D2012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:08
INTERNAL STANDARD	VERIFIED	14:08
EXTERNAL STANDARD	0.081	14:08
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.080	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.081	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.080	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.081	14:12
BLANK TEST	0.000	14:13

Average = 0.0810
Std Dev = 0.0002



Alaska Department of Public Safety
 DATAMASTER dmt: 100684

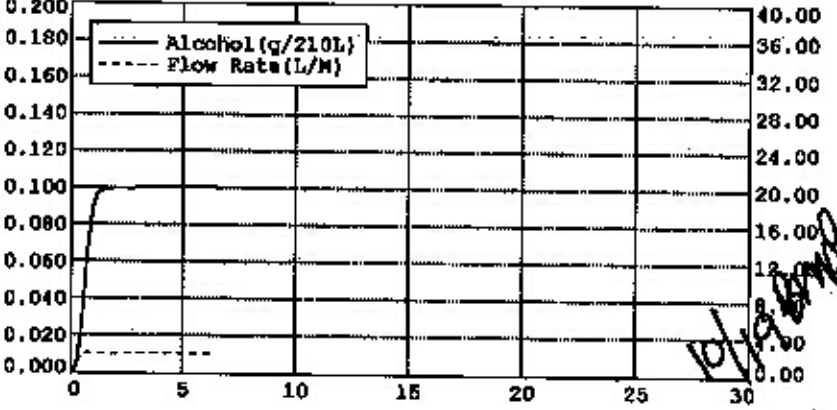
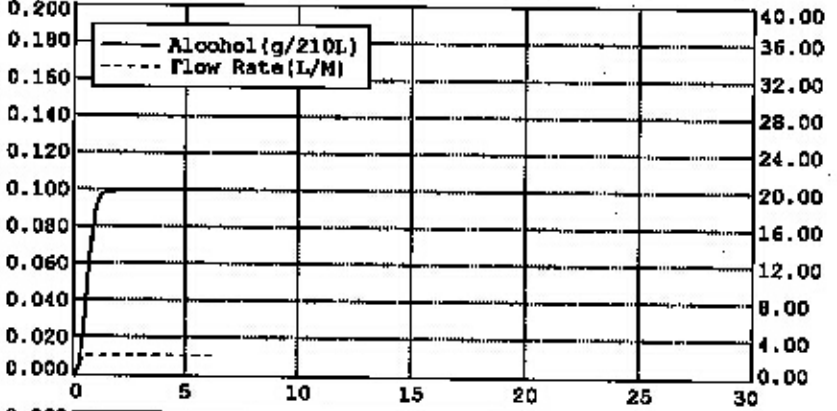
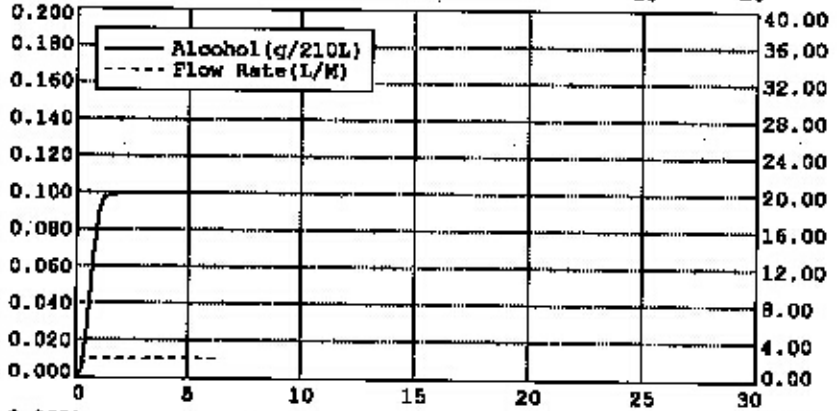
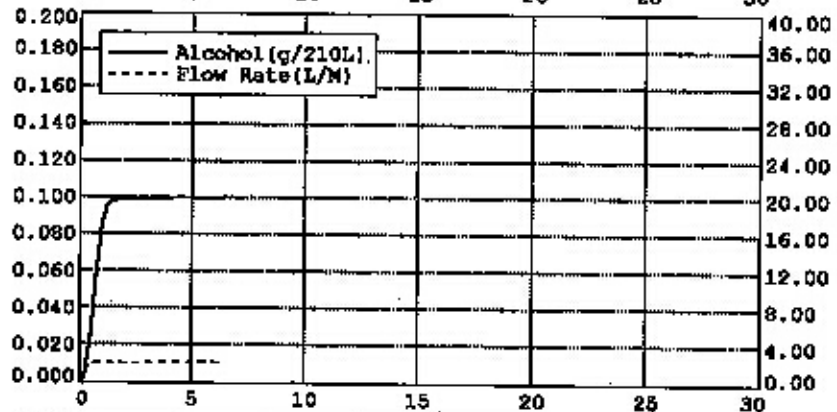
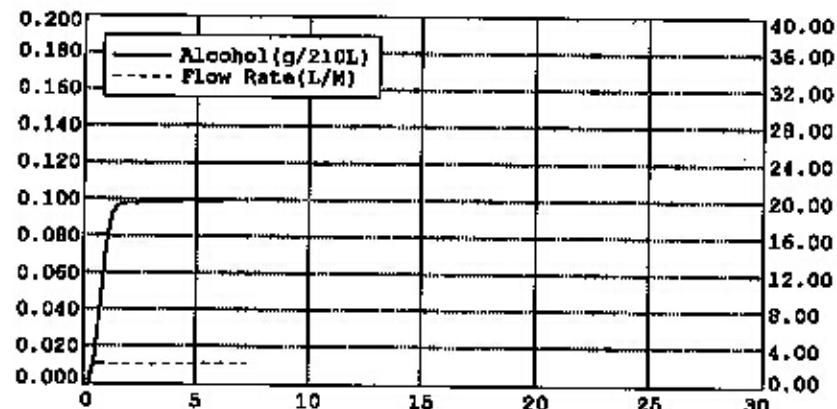
Date: 05/14/2012
 Time: 14:19:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.95: 0.100
 LOT #: 0761100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.100	14:21
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.100	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.101	14:23
BLANK TEST	0.000	14:24
EXTERNAL STANDARD	0.100	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.101	14:25
BLANK TEST	0.000	14:26

Average = 0.1009
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

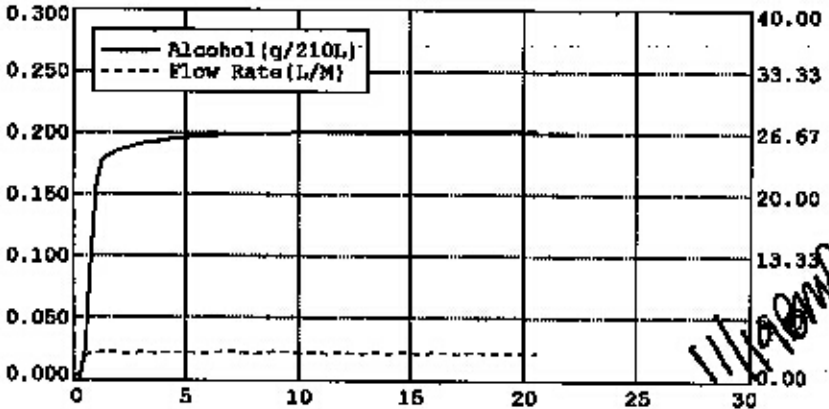
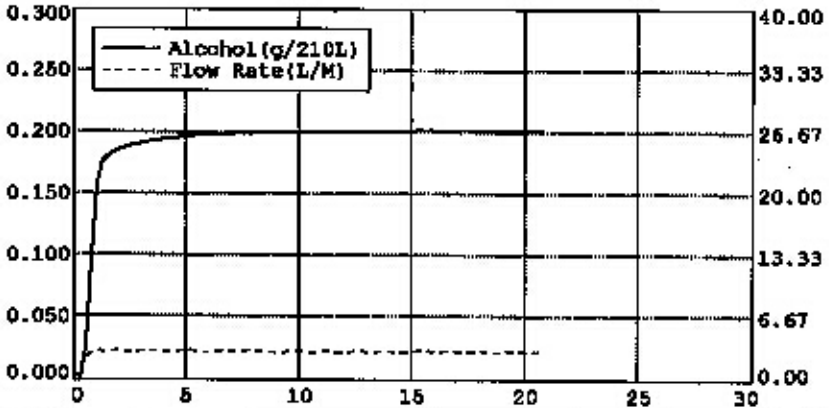
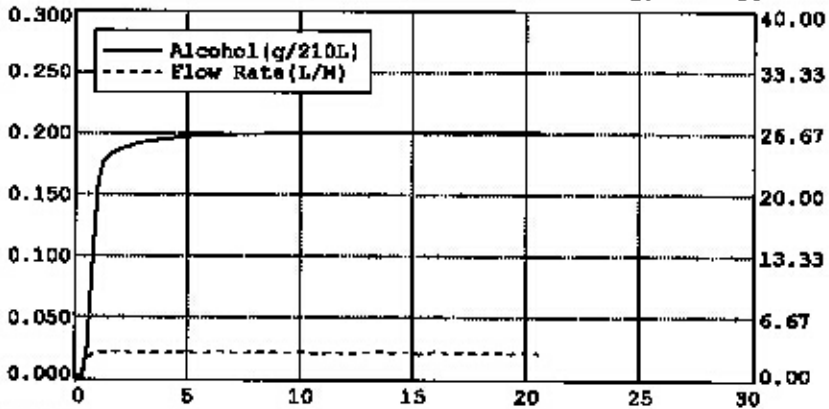
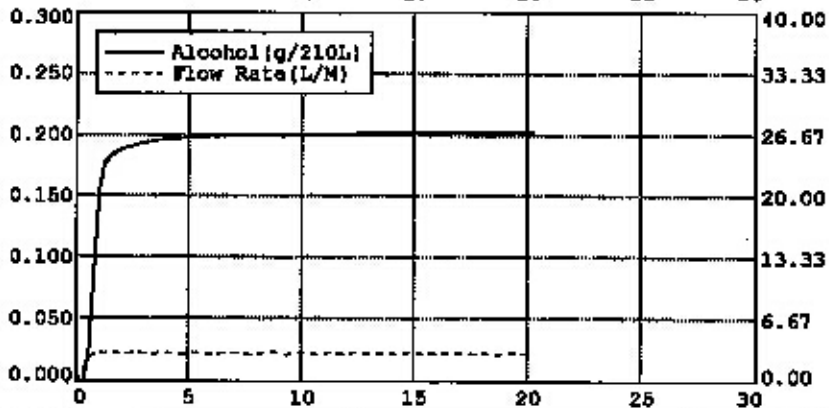
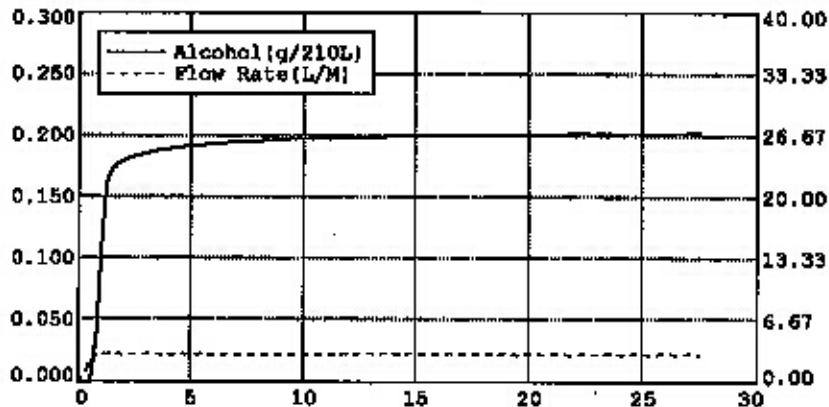
Date: 05/14/2012
 Time: 14:30:00

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.203	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.203	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.203	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.203	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.203	14:37
BLANK TEST	0.000	14:38

Average = 0.2031
 Std Dev = 0.0001



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

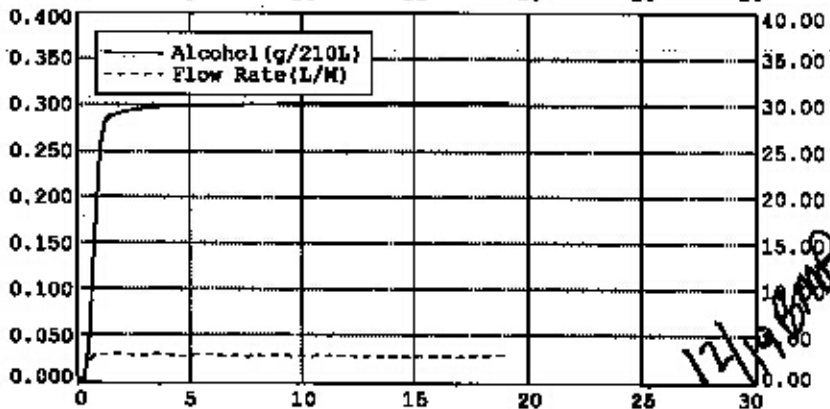
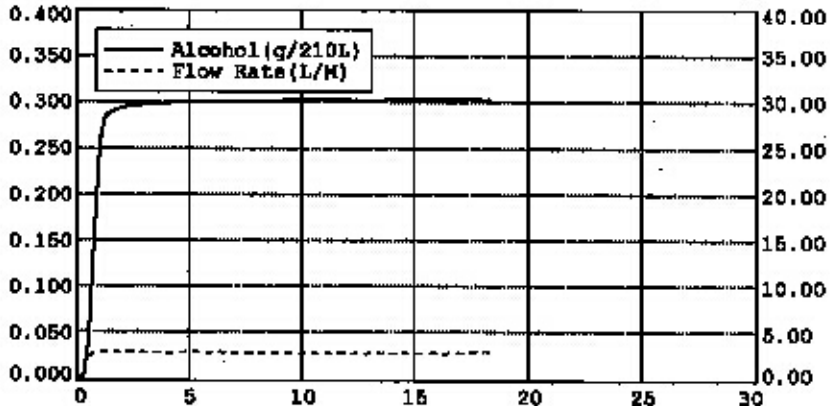
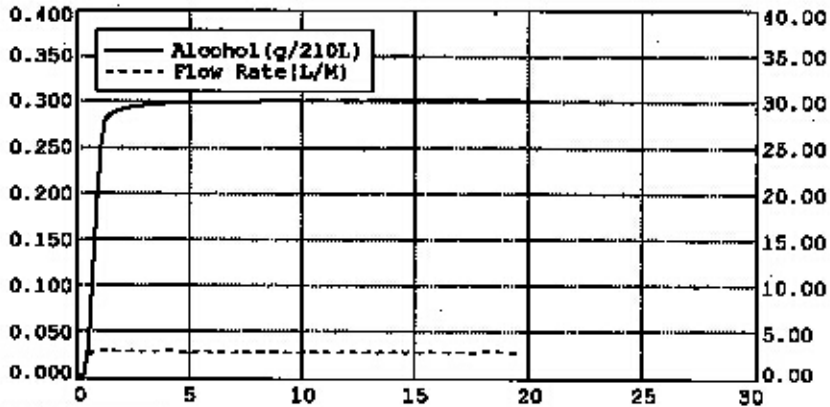
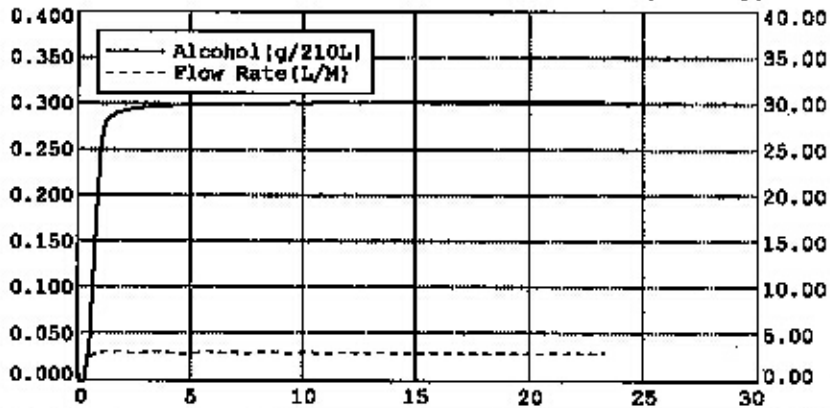
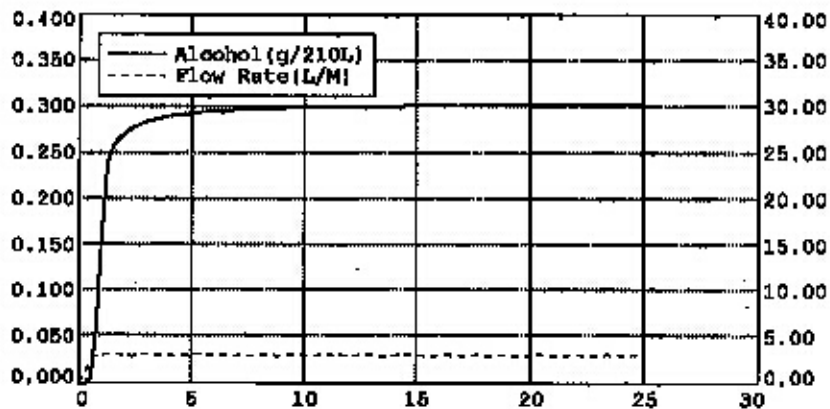
Date: 05/14/2012
 Time: 14:43:52

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:45
INTERNAL STANDARD	VERIFIED	14:45
EXTERNAL STANDARD	0.303	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.303	14:47
BLANK TEST	0.000	14:48
EXTERNAL STANDARD	0.303	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.303	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.303	14:51
BLANK TEST	0.000	14:52

Average = 0.3034
 Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
LABORATORY DIV: 100684

Date: 05/16/2012
Time: 09:32:00

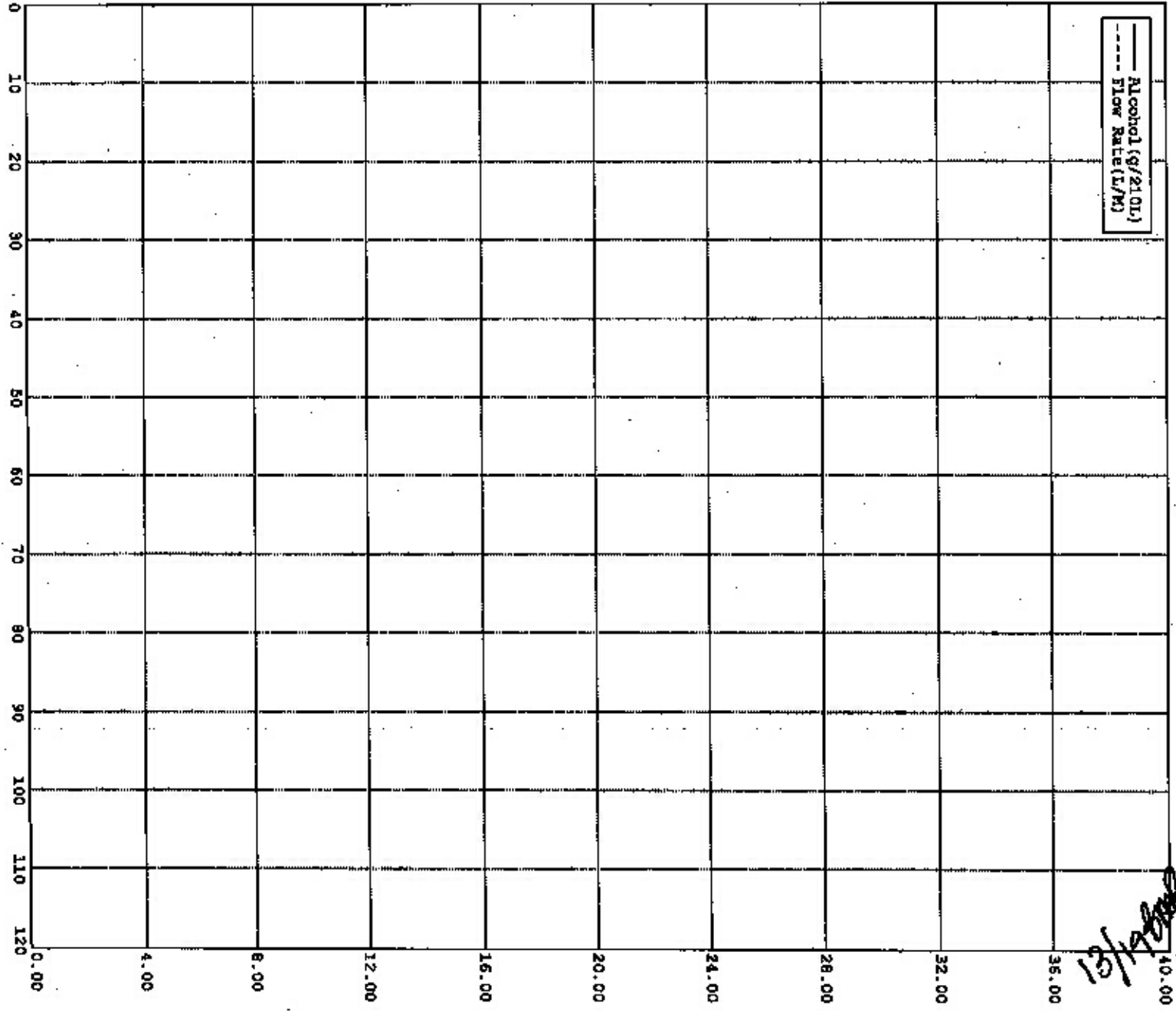
SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.26: 0.080
LOT #: 02012080A1
EXPIRATION: 03/31/2014

DIAGNOSTIC CHECK	PASSED	09:33
BLANK TEST	0.000	09:33
INTERNAL STANDARD	VERIFIED	09:33
EXTERNAL STANDARD	0.081	09:33
BLANK TEST	0.000	09:34
SUBJECT SAMPLE	INCOMPLETE	09:36



SUBJECT TEST

Alaska Department of Public Safety
 DATABASE drc: 100684

Date: 05/16/2012
 Time: 10:28:53

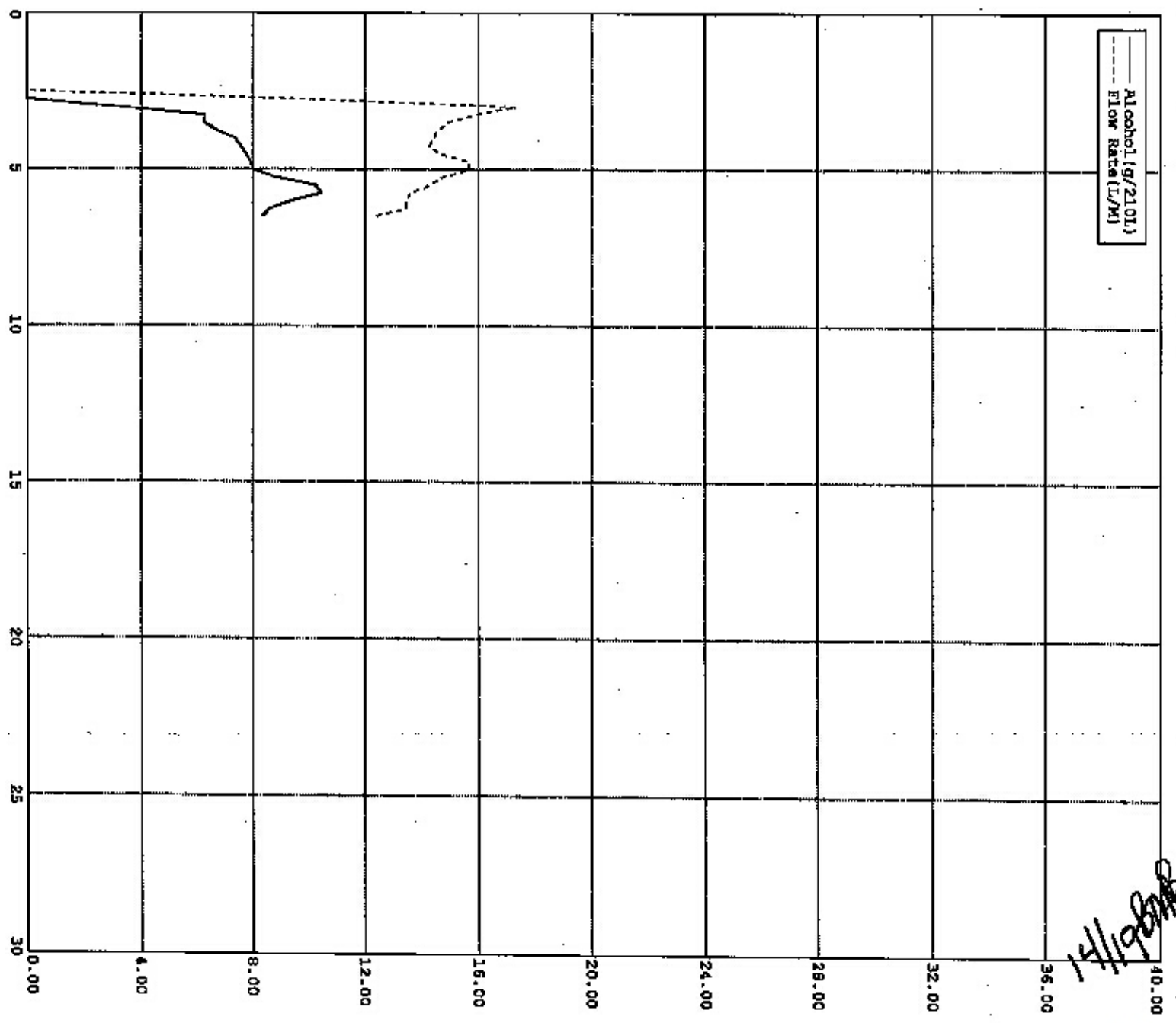
SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

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

DIAGNOSTIC CHECK	PASSED	10:21
BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:31
EXTERNAL STANDARD	0.081	10:32
BLANK TEST	0.000	10:33
SUBJECT SAMPLE	INVALID	10:33



SUBJECT TEST

Alabama Department of Public Safety
 DATAMASTER dmt: 100684

Date: 05/16/2012
 Time: 10:36:32

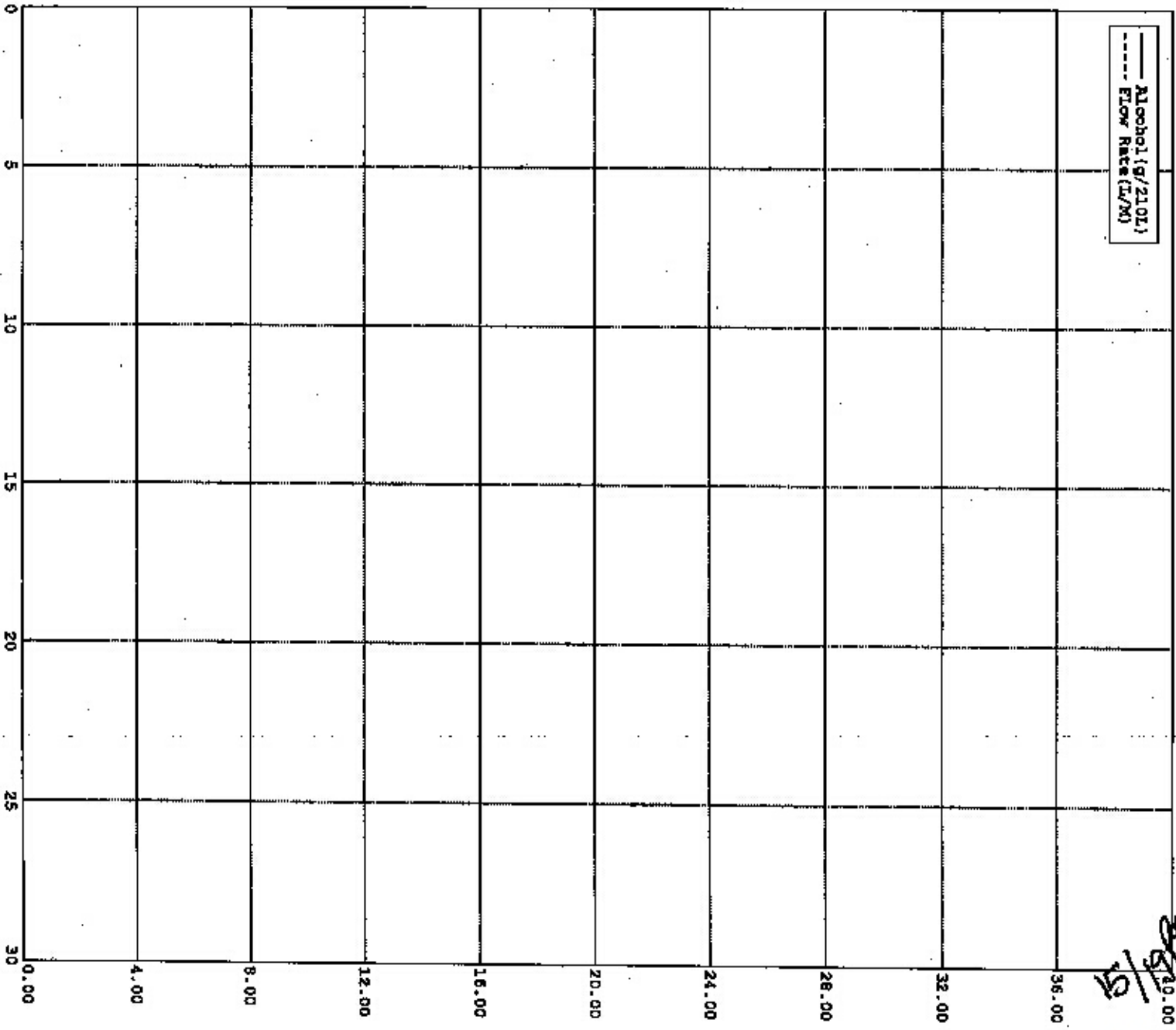
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 30.25: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
 BLANK TEST PASSED 10:36
 INTERNAL STANDARD 0.000 10:36
 EXTERNAL STANDARD VERIFIED 10:36
 BLANK TEST 0.081 10:37
 0.000 10:38
 RPT DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATANASTER dnt: 100684

Date: 05/16/2012
Time: 13:28:52

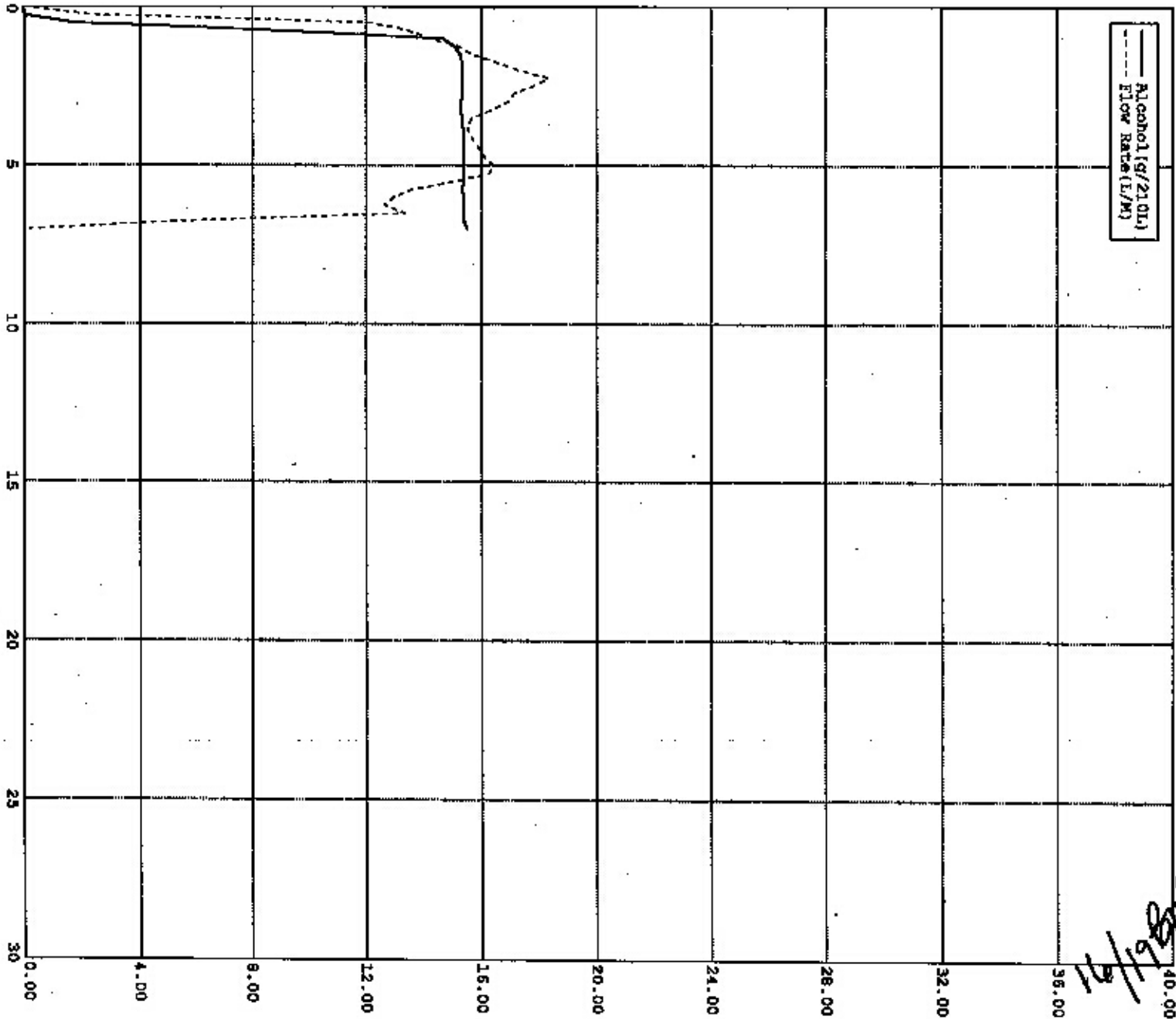
SUBJECT NAME:
TEST TEST
LICENSE #: INTERFERENCE

OPERATOR NAME:
BRANDI BARRETT
OPERATOR'S #: 7038

DEPT/AGENCY:
FEDERAL AND AGSTONE
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.22: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:31
BLANK TEST	0.000	13:31
INTERNAL STANDARD	VERIFIED	13:31
Xq = 0.089 (0.87%)		
EXTERNAL STANDARD	0.081	13:32
X[1] = 0.0819 (-0.0002) (0.0021)		
BLANK TEST	0.000	13:33
SUBJECT SAMPLE	INTERFERENCE	13:33
X[1] = 0.0780 (-0.0117) (-0.0001)		



Handwritten signature and date: 5/16/12

SUBJECT TEST

Alaska Department of Public Safety
 DATASHEET dmc: 100684

Date: 05/16/2012
 Time: 13:43:22

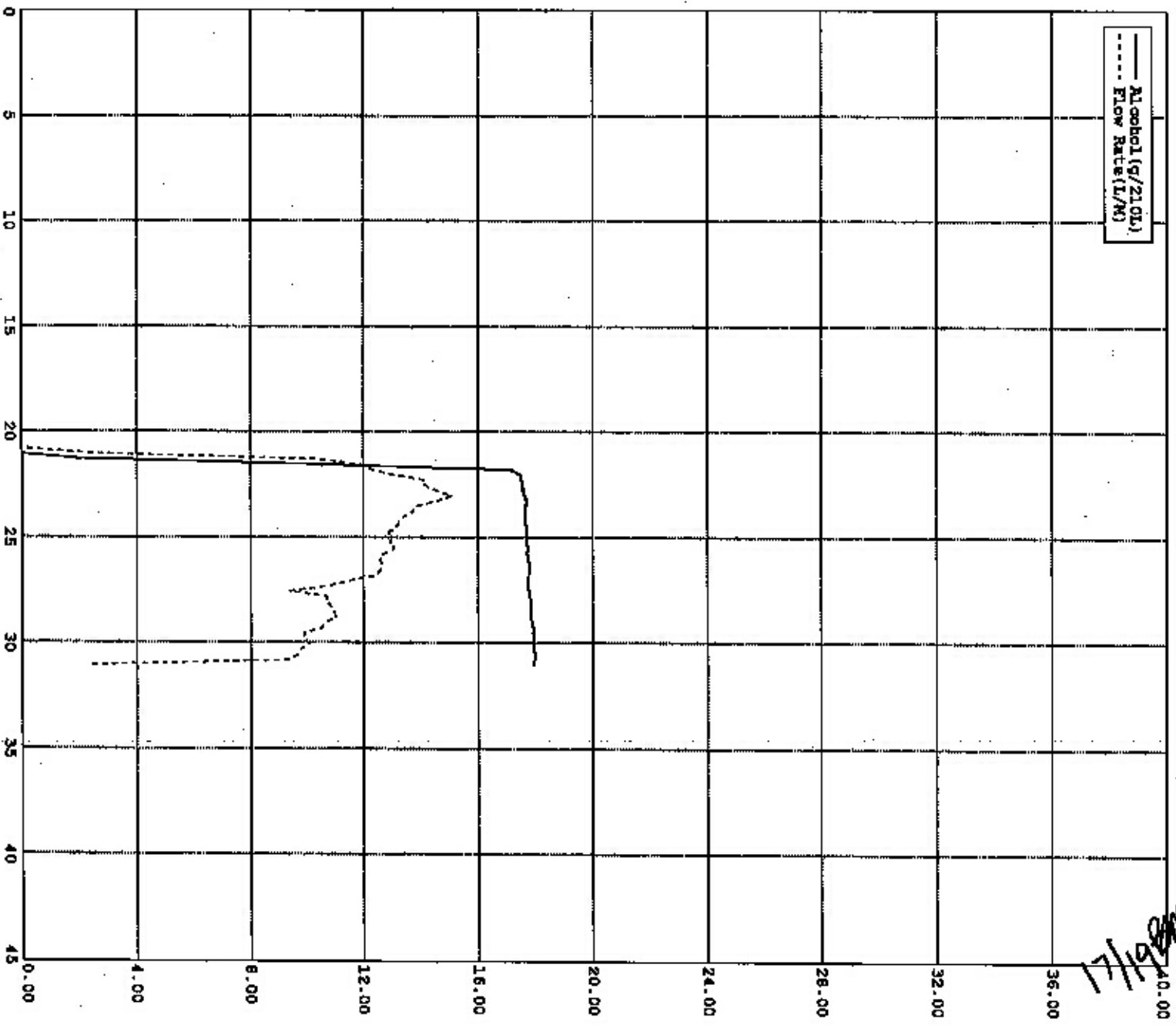
SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE

OPERATOR NAME:
 BRANDT BARRETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NEMATRAL: 0.080
 TARGET AT 30.22: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK PASSED 13:44
 BLANK TEST 0.000 13:44
 INTERNAL STANDARD VERIFIED 13:45
 X1 = 0.089 (1.26%) 0.081 13:45
 EXTERNAL STANDARD X[1] = 0.0816 (-0.0012) (0.0016) 0.000 13:46
 BLANK TEST 0.000 13:46
 SUBJECT SAMPLE INTERFERENCE 13:45
 X[1] = 0.0905 (-0.0236) (-0.0003)



17/19
 6/1/11

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100684

Date: 05/16/2012
 Time: 13:48:51

SUBJECT NAME:
 TEST TEST
 LICENSE #: INTERFERENCE

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

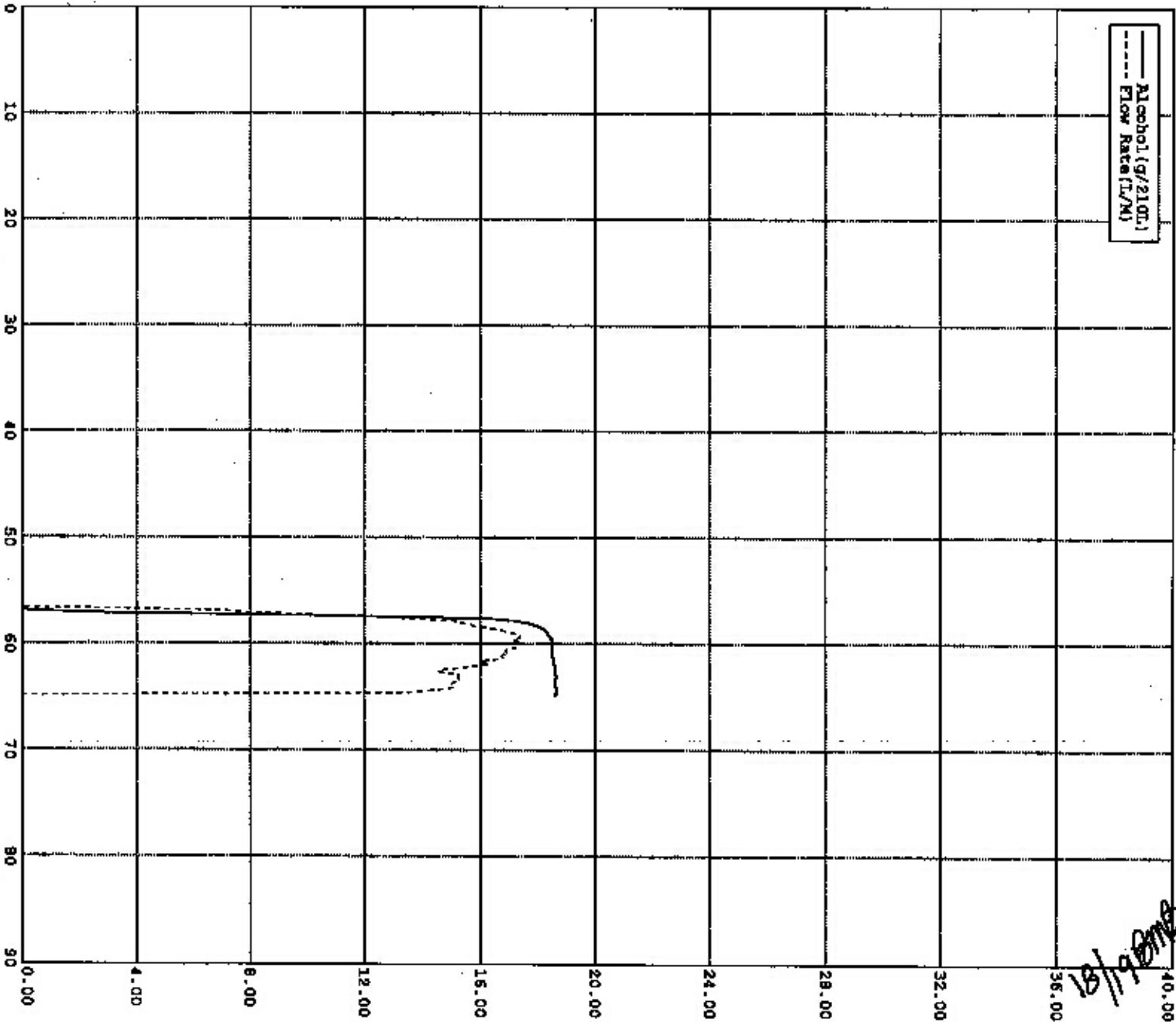
DEPT/AGENCY:
 NEGATIVE CONTROL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.21: 0.080
 LOT #: 02012080A1
 EXPIRATION: 09/01/2014

DIAGNOSTIC CHECK

TEST	PASSED	13:50
BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
Xg = 0.089 (1.06%)		
EXTERNAL STANDARD	0.081	13:51
I [1] = 0.0814 (-0.0016)	(0.0023)	
BLANK TEST	0.000	13:52
SUBJECT SAMPLE (Vol=2.031)	0.093	13:53
X [1] = 0.0934 (-0.0020)	(-0.0011)	
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.081	13:54
X [1] = 0.0810 (-0.0005)	(0.0011)	
BLANK TEST	0.000	13:55



SUBJECT TEST

Alaska Department of Public Safety
 LABORATORY dnt: 100684

Date: 05/16/2012
 Time: 14:30:08

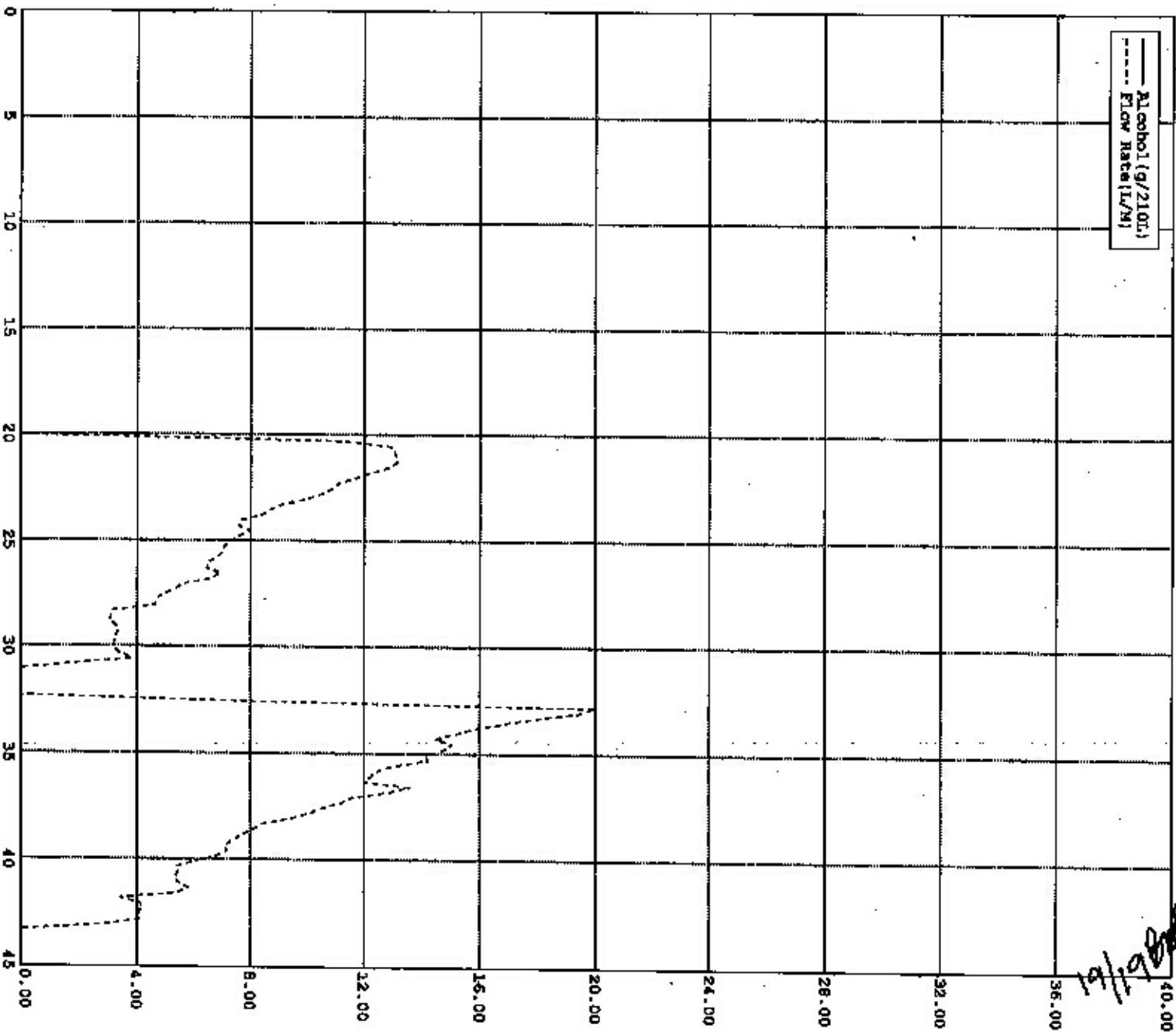
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 NON DRINKING SUBJECT TEST
 CASE/RECORD: 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	14:32
BLANK TEST	0.000	14:32
INTERNAL STANDARD	VERIFIED	14:32
EXTERNAL STANDARD	0.081	14:32
BLANK TEST	0.000	14:33
SUBJECT SAMPLE	0.000	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.081	14:35
BLANK TEST	0.000	14:36



Handwritten signature and date: 5/16/12

Final page for report

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2/12/2014