

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 6/11/2014
Effective: 6/11/2014Version: DMCEF 2014 R0
Status: ActiveInstrument S/N 100673 Analyst CTF Start Date 9/18/14

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - 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)
 - iv. Chopper Frequency
 - v. Detector Voltage (-0.100V to 0.100V)

3. Print Calibration Factors (attached)

4. Volume Test - Minimum 1.5 L (1.3L to 1.7L) ☒

5. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 00813020A1 Exp 3/1/15
- ii. 0.040g/210L Mnf ILMO Lot 00813040A2 Exp 3/1/15
- iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 6/1/15
- iv. 0.100g/210L Mnf ILMO Lot 00813100A3 Exp 3/1/15
- v. 0.200g/210L Mnf buth Lot 14130 Exp 5/12/16
 1. Simulator S/N DR5298 Date Calibrated 2/19/14
- vi. 0.300g/210L Mnf buth Lot 13080 Exp 3/19/15
 1. Simulator S/N SD1177 Date Calibrated 2/20/14

6. Functional Tests (attached)

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

- i. Acetone - Mnf buth Lot 14030 Level 0.10 Exp 1/20/16
 1. Simulator S/N SD1198 Date Calibrated 2/20/14
- ii. Isopropanol - Mnf buth Lot 14030 Level 0.10 Exp 1/20/16
 1. Simulator S/N SD1202 Date Calibrated 2/20/14
- iii. Negative Control - Mnf buth Lot 13010 Level 0.100 Exp 1/9/15
 1. Simulator S/N DR4161 Date Calibrated 2/19/14

d. RFI ☒

7. Verify stylus is calibrated ☒
8. Reset Options ☒
9. Clear Memory ☒

10. Verification of Calibration ☒
11. Non-Drinking Subject Test (attached) ☒
12. Upload ☒

End Date 9/22/14

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 09/18/2014
Time: 14:55:22

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 47.7°C	PASSED

PUMP INFO

Flow Rate = 4.463 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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Technician Screen

DATAMASTER dmt: 100673

Date: 09/18/2014

Time: 3:07 PM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 47.0°C

Current Barometer 28.8 in

Volume (Ltr) 1.43

Settings

Lamp: 1.60 V

Bias: 79 V

Cooler: 1.71 V

Chopper: 553 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.052 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 05/16/2013
Time: 07:20:31

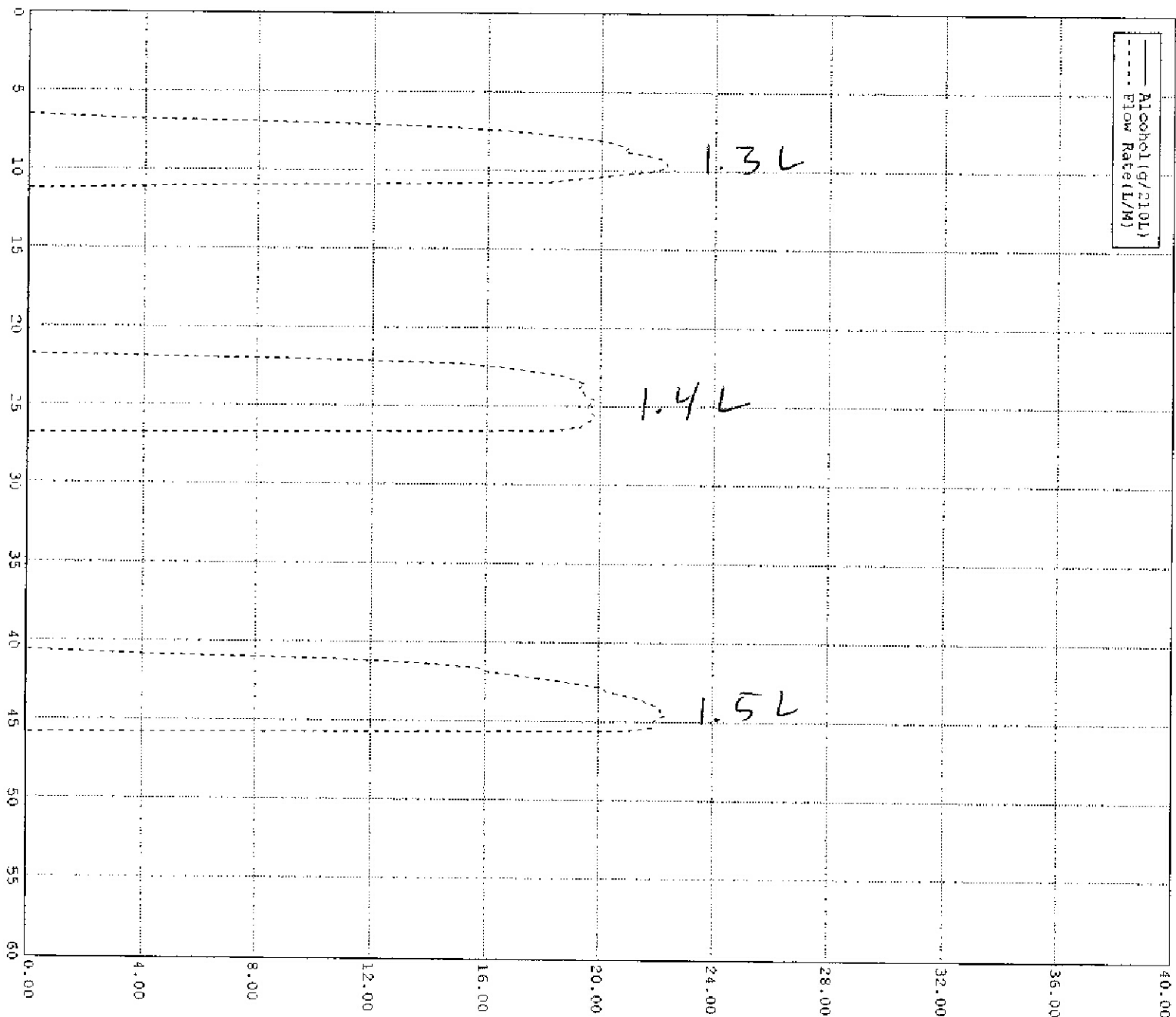
OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

Ca = 0.1000
CAL = 0.973020 0.800 <= CAL < 1.200
b1 = 0.0015 0.0000 <= b1 < 0.0040
b2 = 0.0082 0.0010 <= b2 < 0.0100
b3 = 0.0010 0.0000 <= b3 < 0.0040
Xq = 0.0747 0.0500 <= Xq < 0.2000
a21 = 1.200262 1.050 <= a21 < 1.300
a31 = 0.446870 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100673Date: 09/18/2014
Time: 15:22:03SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.77: 0.076
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:23
BLANK TEST	0.000	15:23
INTERNAL STANDARD	VERIFIED	15:23
EXTERNAL STANDARD	0.074	15:23
BLANK TEST	0.000	15:24
SUBJECT SAMPLE	0.000	15:25
BLANK TEST	0.000	15:26
EXTERNAL STANDARD	0.074	15:26
BLANK TEST	0.000	15:27



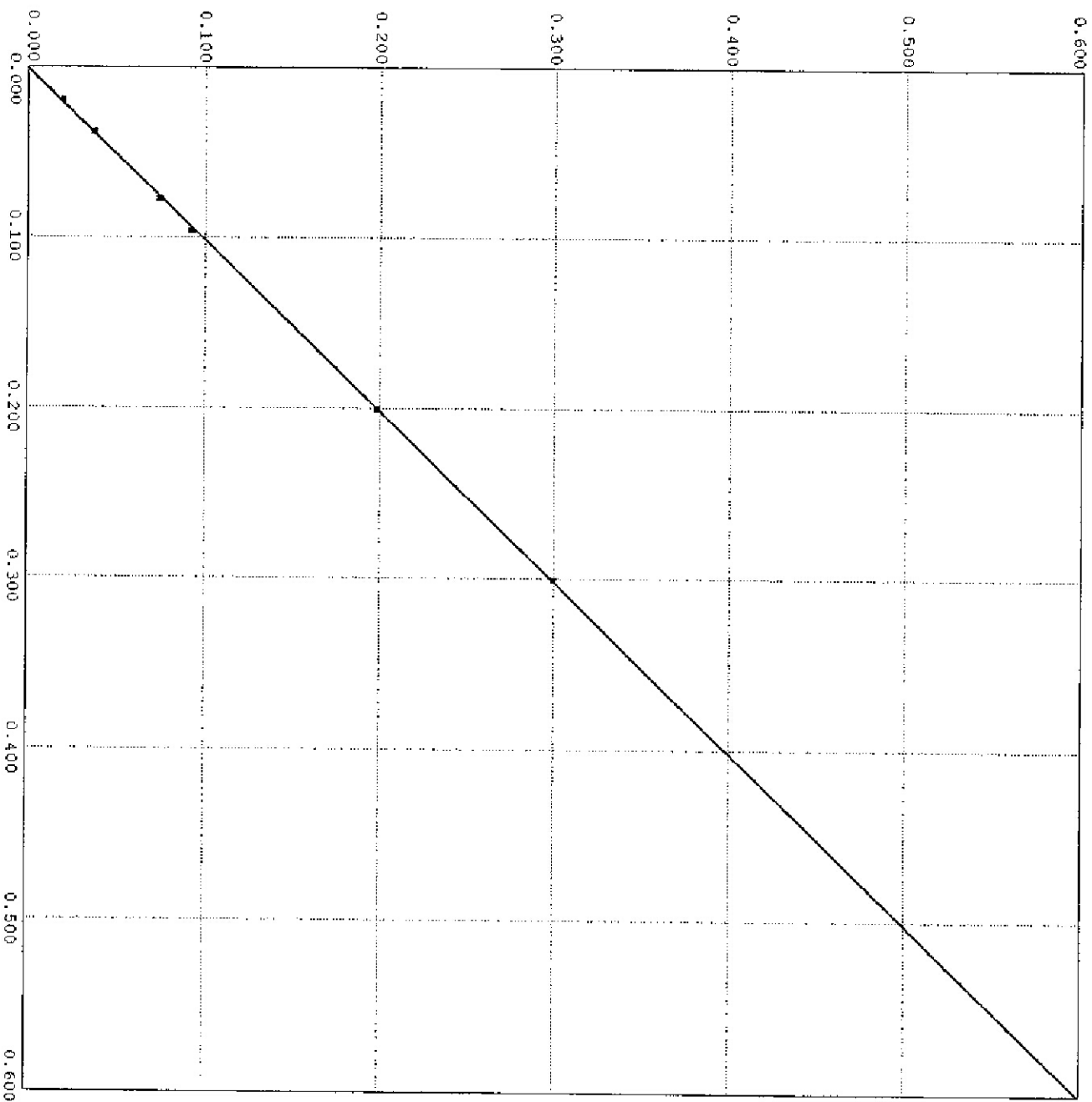
LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dnt: 100673

Date: 09/19/2014
 Time: 09:36:31

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0002
0.038	0.0382	0.0001
0.077	0.0753	0.0003
0.096	0.0934	0.0002
0.200	0.1992	0.0002
0.300	0.3004	0.0008
SLOPE	= 1.000165	
R ²	= 0.999821	



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100673

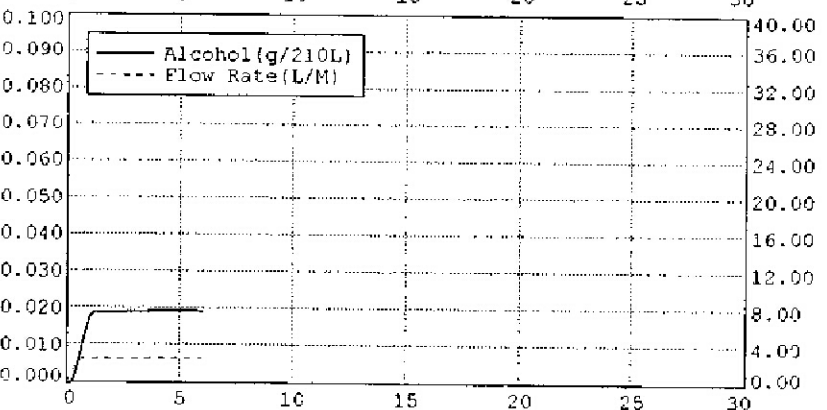
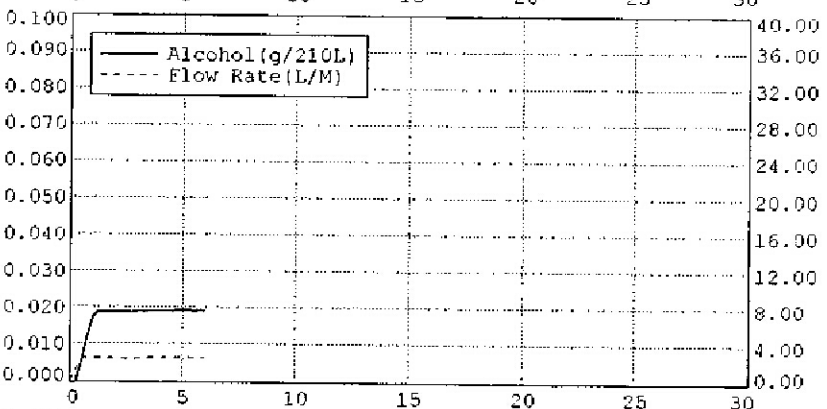
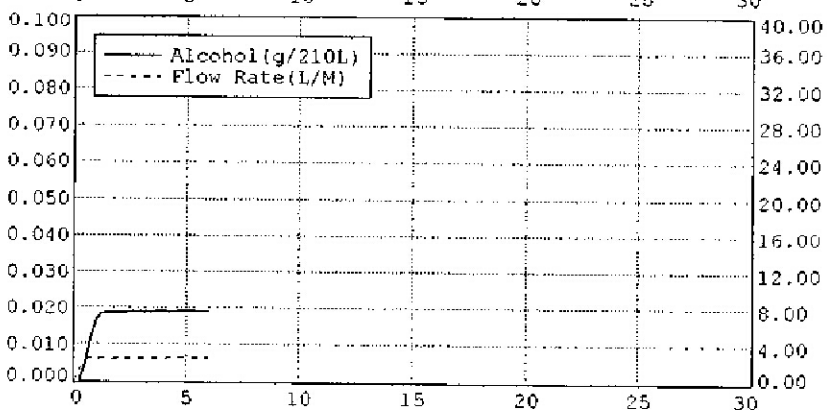
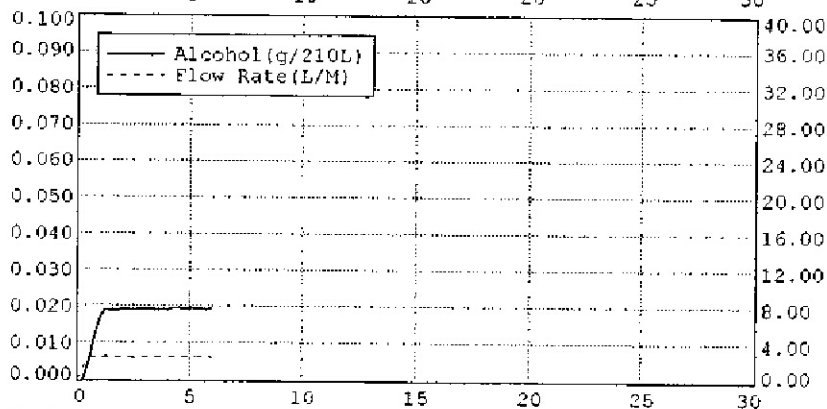
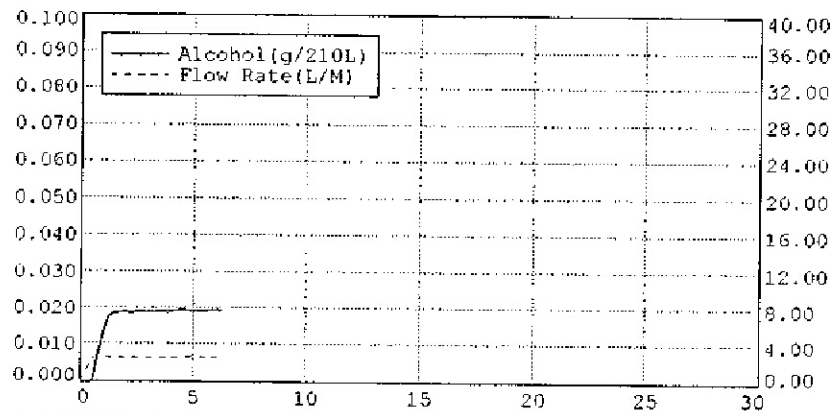
Date: 09/19/2014
Time: 09:36:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 28.96: 0.019
LOT #: 00813020A1
EXPIRATION: 03/01/2015

BLANK TEST	0.000	09:59
INTERNAL STANDARD	VERIFIED	10:00
EXTERNAL STANDARD	0.020	10:00
BLANK TEST	0.000	10:01
EXTERNAL STANDARD	0.020	10:01
BLANK TEST	0.000	10:02
EXTERNAL STANDARD	0.020	10:02
BLANK TEST	0.000	10:03
EXTERNAL STANDARD	0.020	10:03
BLANK TEST	0.000	10:04
EXTERNAL STANDARD	0.020	10:04
BLANK TEST	0.000	10:05

Average = 0.0202
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100673

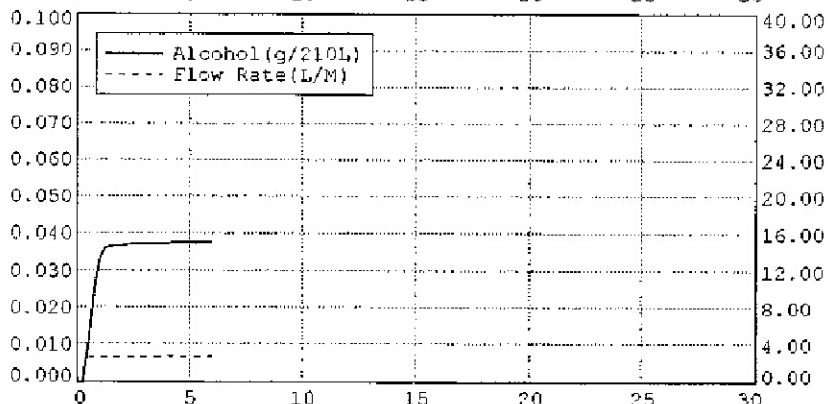
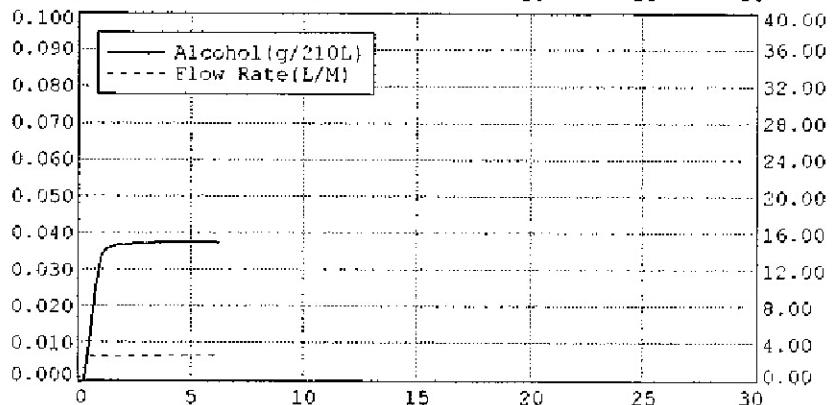
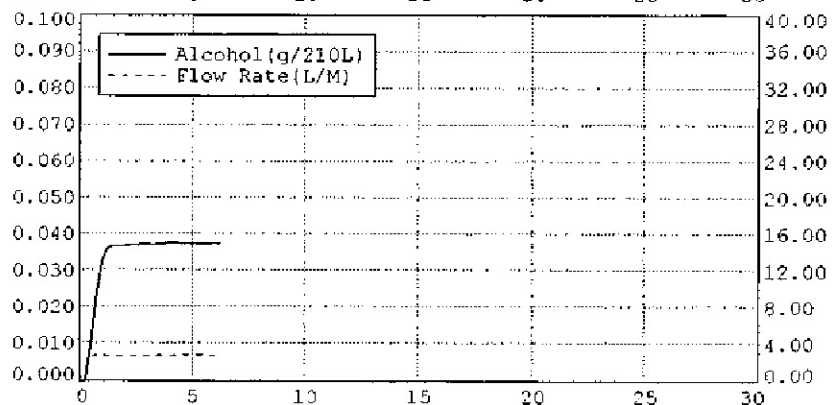
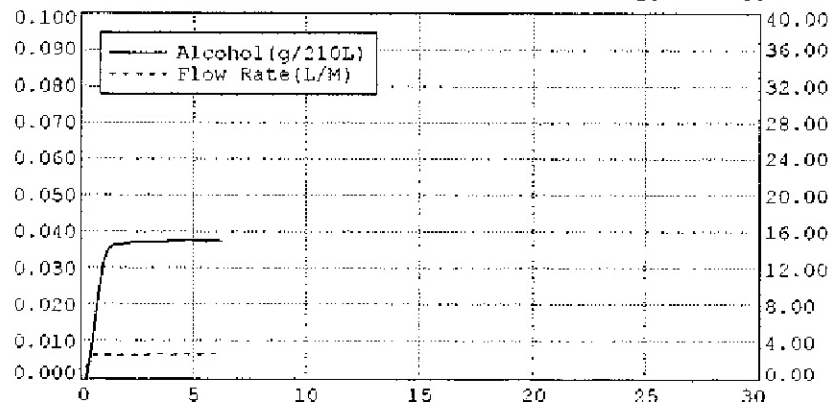
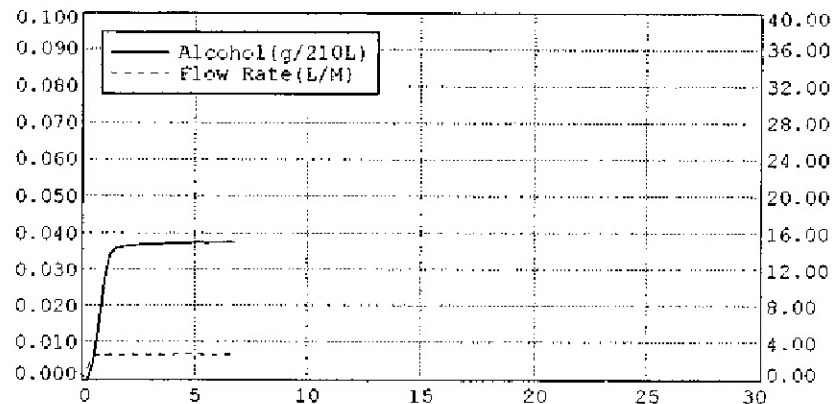
Date: 09/19/2014
Time: 10:08:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 28.96: 0.038
LOT #: 00813040A2
EXPIRATION: 03/01/2015

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

Average = 0.0382
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100673

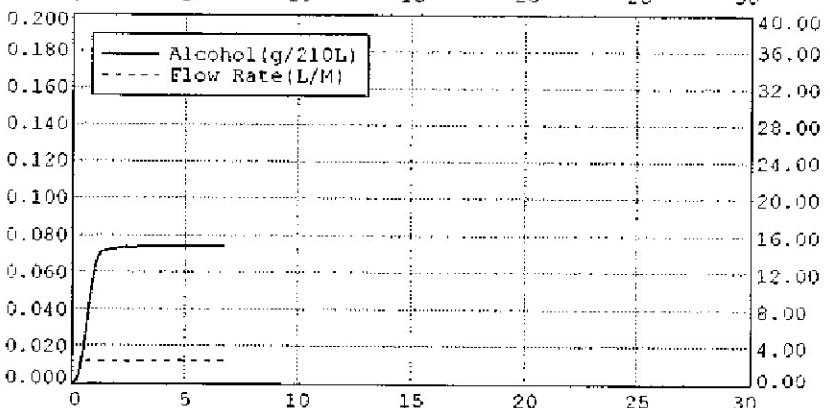
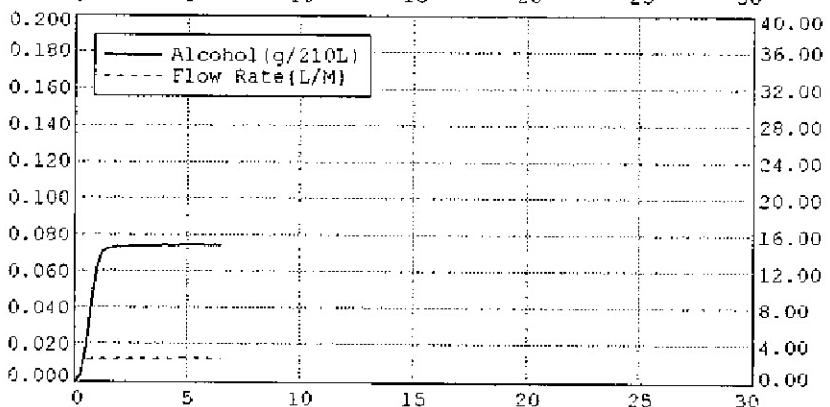
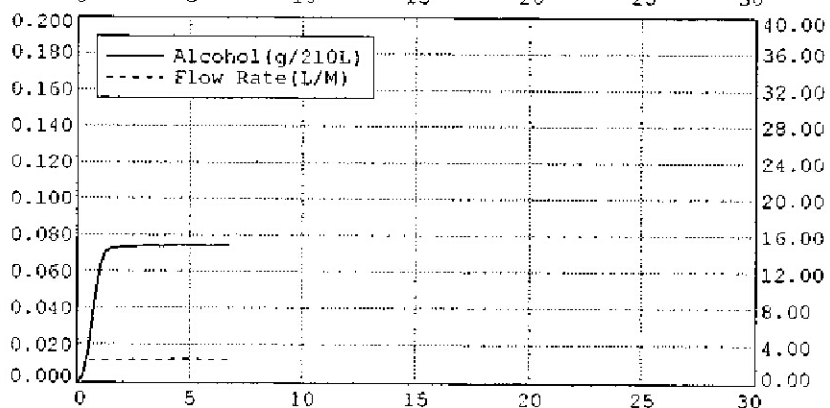
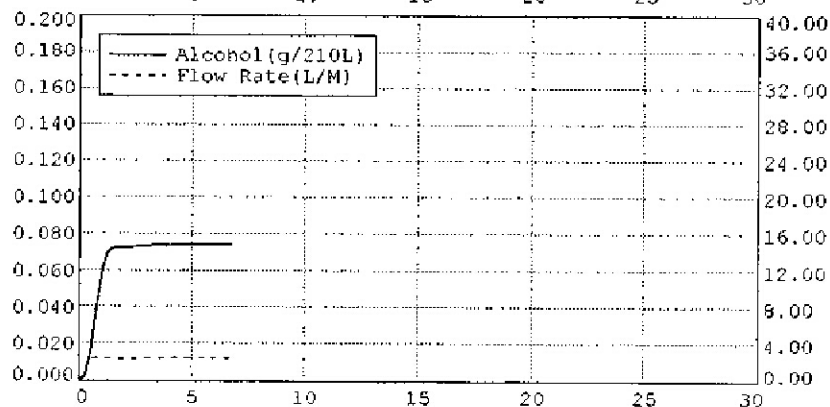
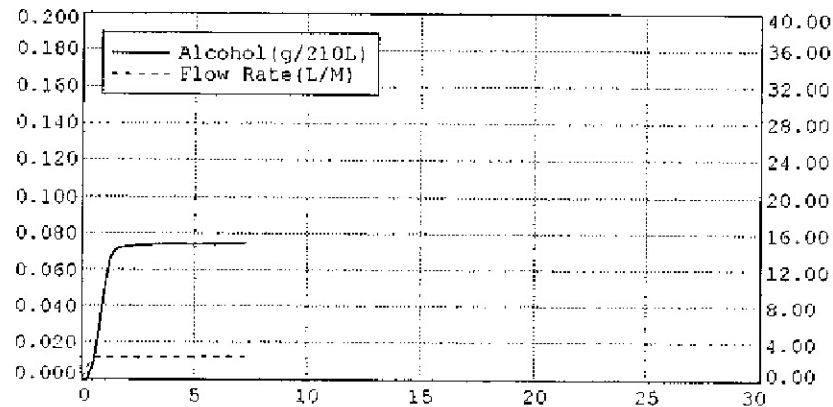
Date: 09/19/2014
Time: 10:17:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 28.96: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

BLANK TEST	0.000	10:19
INTERNAL STANDARD	VERIFIED	10:19
EXTERNAL STANDARD	0.075	10:19
BLANK TEST	0.000	10:20
EXTERNAL STANDARD	0.075	10:20
BLANK TEST	0.000	10:21
EXTERNAL STANDARD	0.075	10:21
BLANK TEST	0.000	10:22
EXTERNAL STANDARD	0.075	10:22
BLANK TEST	0.000	10:23
EXTERNAL STANDARD	0.074	10:23
BLANK TEST	0.000	10:24

Average = 0.0753
Std Dev = 0.0003



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100673

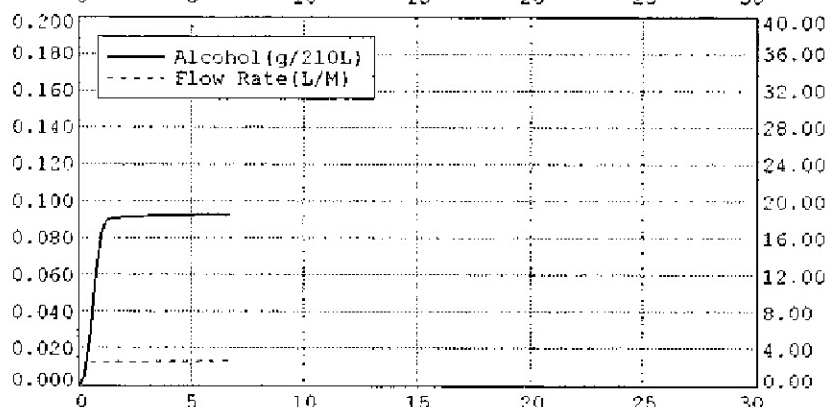
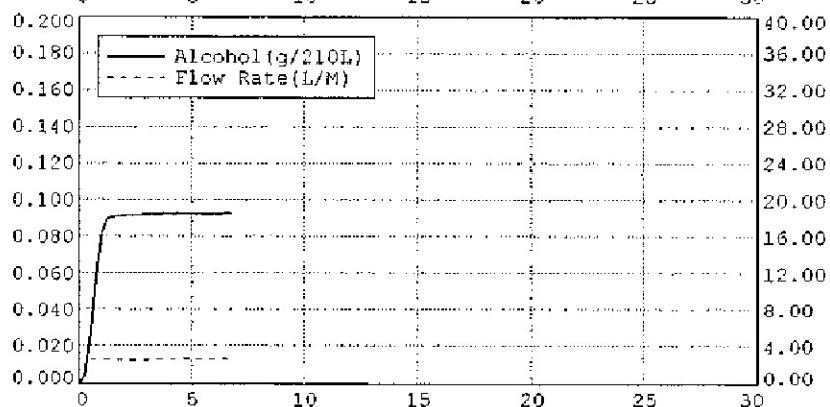
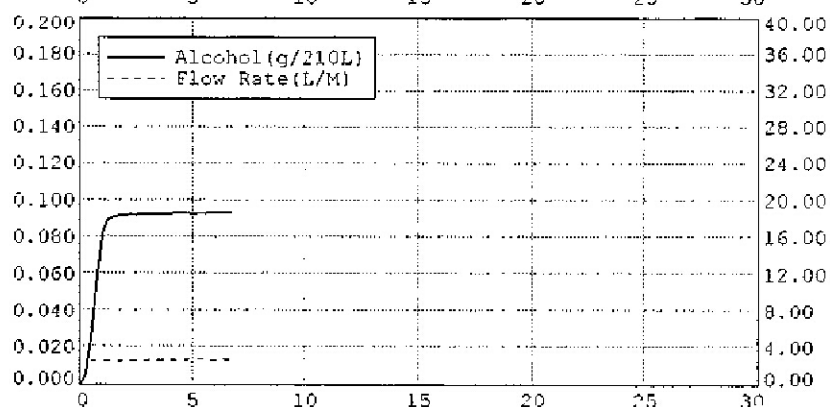
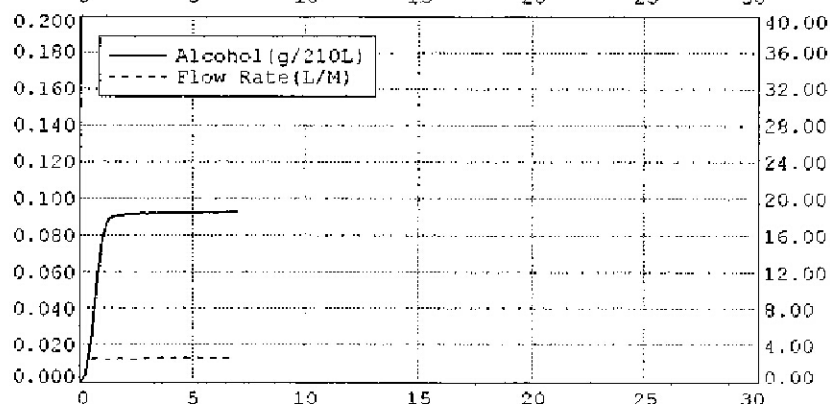
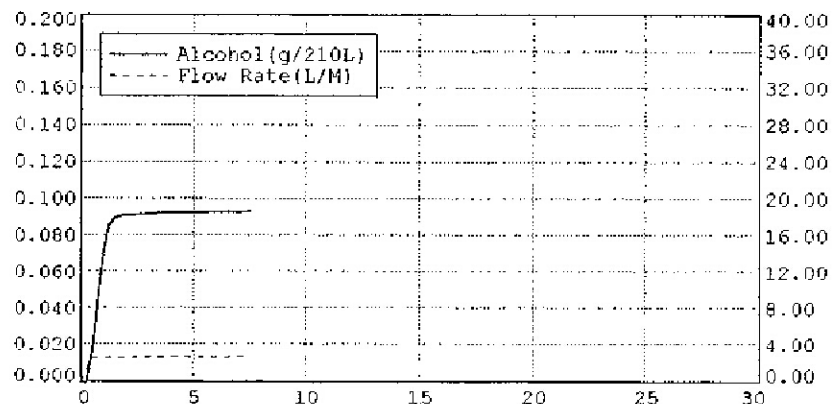
Date: 09/19/2014
Time: 10:27:41

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 28.96: 0.096
LOT #: 00813100A3
EXPIRATION: 03/01/2015

BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:29
EXTERNAL STANDARD	0.093	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.093	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.093	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.093	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.093	10:33
BLANK TEST	0.000	10:34

Average = 0.0934
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100673

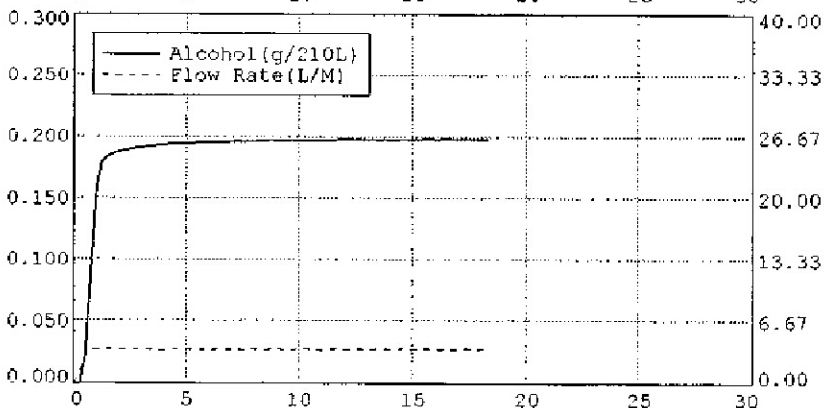
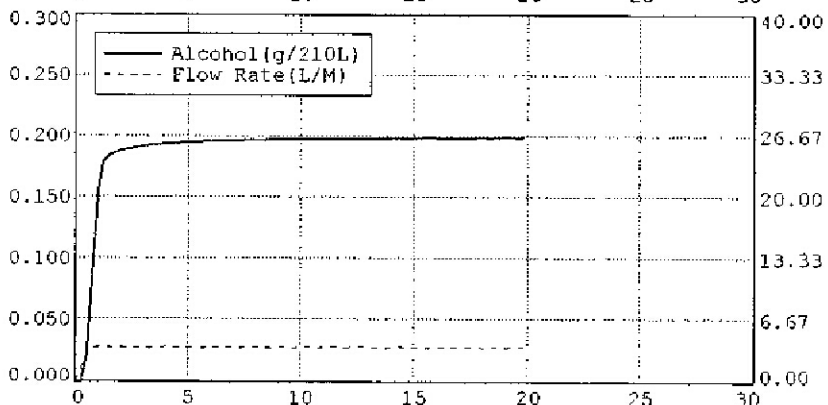
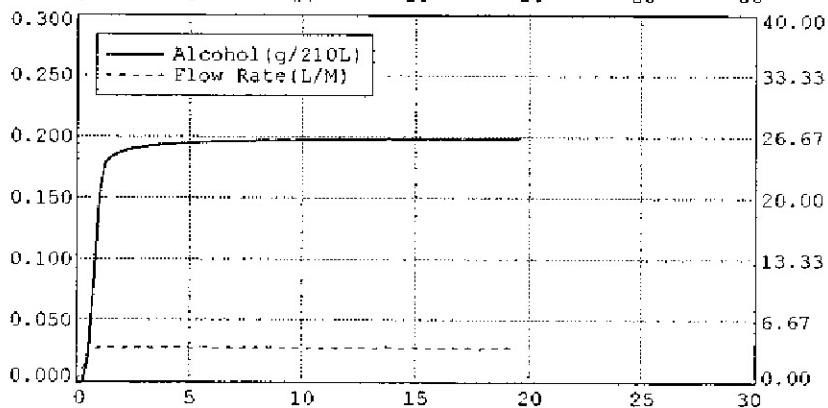
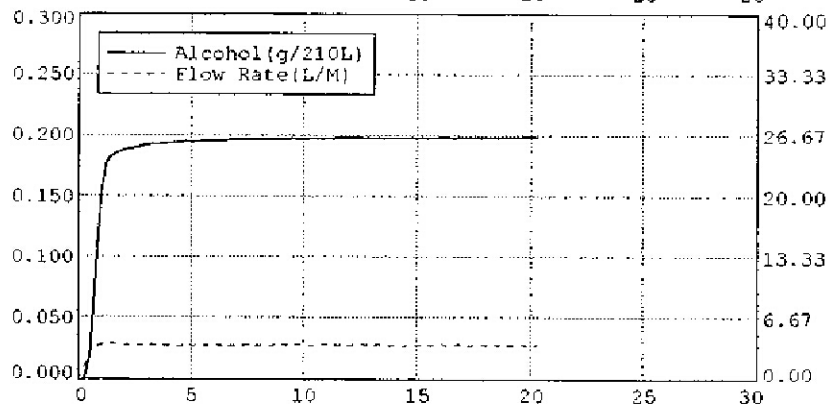
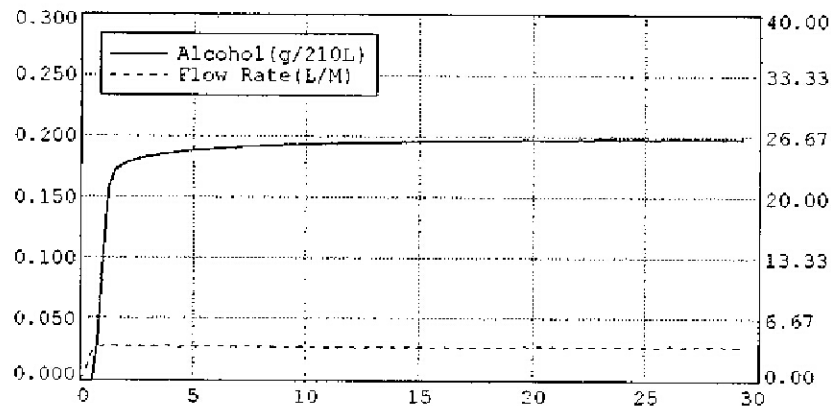
Date: 09/19/2014
Time: 10:37:15

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: 14130
EXPIRATION: 05/12/2016

BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.199	10:39
BLANK TEST	0.000	10:40
EXTERNAL STANDARD	0.199	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.199	10:42
BLANK TEST	0.000	10:43
EXTERNAL STANDARD	0.199	10:43
BLANK TEST	0.000	10:44
EXTERNAL STANDARD	0.199	10:44
BLANK TEST	0.000	10:45

Average = 0.1992
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100673

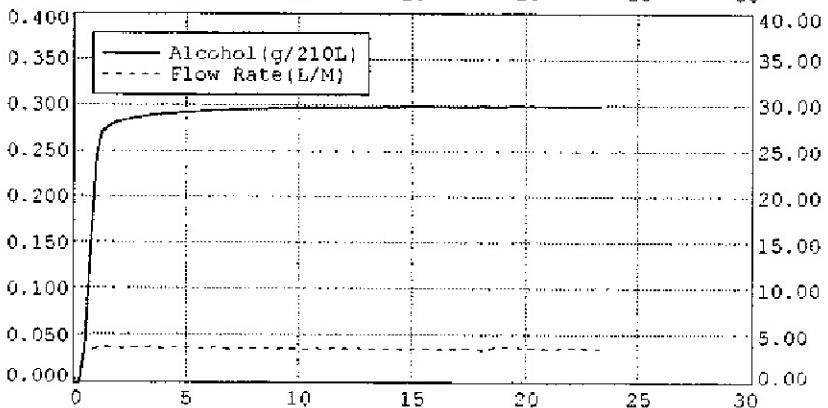
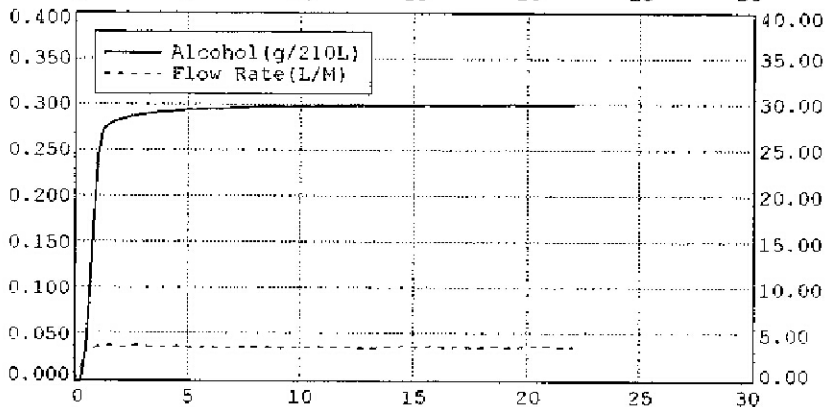
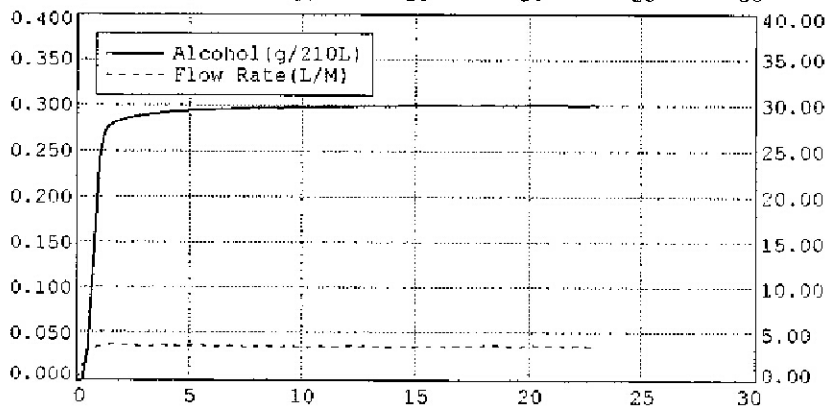
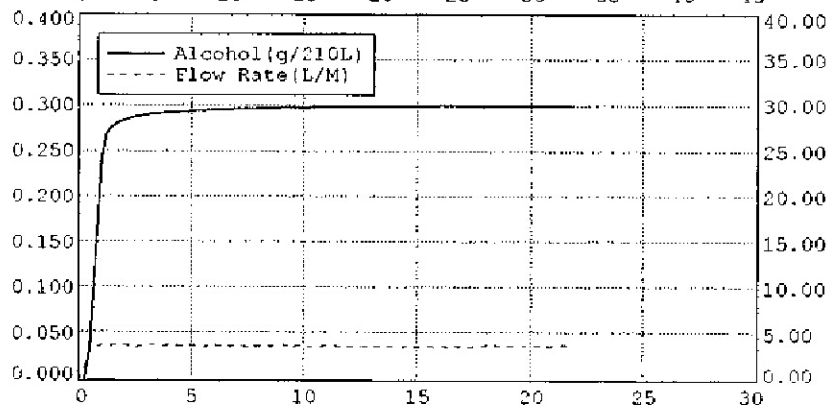
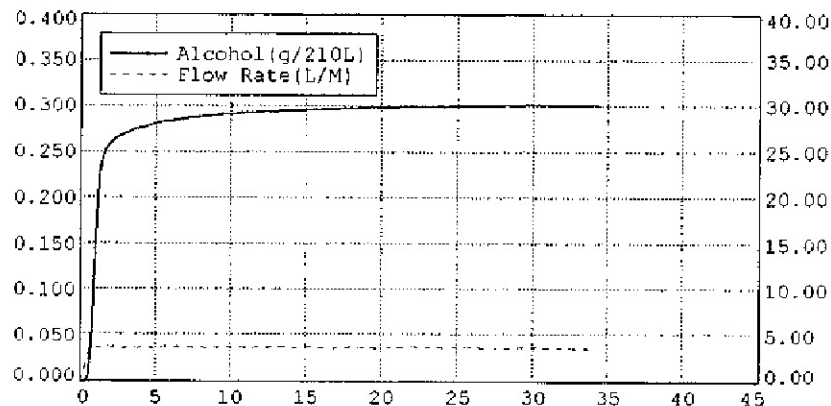
Date: 09/19/2014
Time: 10:49:29

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 13080
EXPIRATION: 03/19/2015

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.301	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.300	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.300	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.299	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.299	10:57
BLANK TEST	0.000	10:57

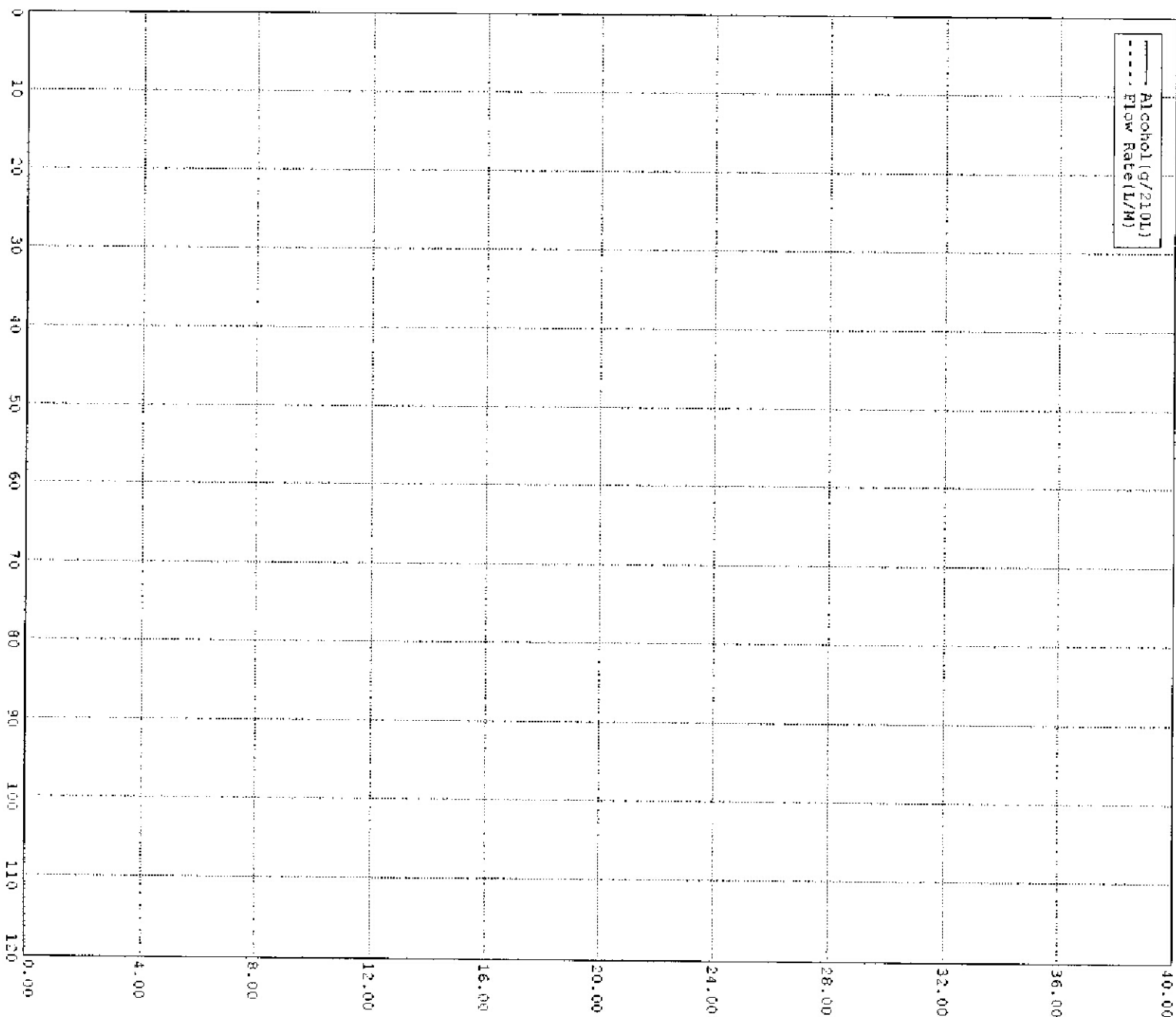
Average = 0.3004
Std Dev = 0.0008



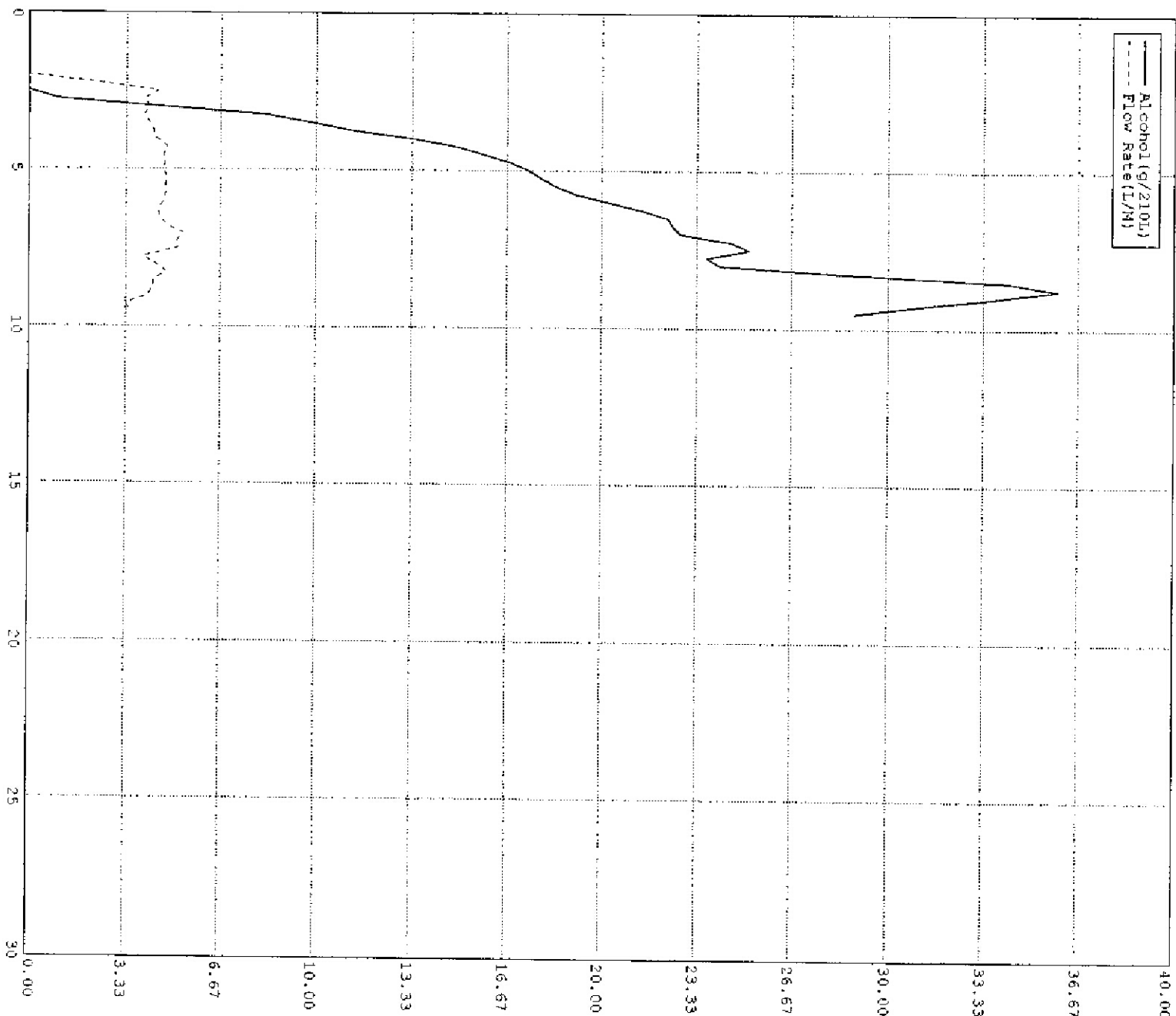
SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100673Date: 09/19/2014
Time: 11:14:57SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 28.99: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	11:16
BLANK TEST	0.000	11:16
INTERNAL STANDARD	VERIFIED	11:16
EXTERNAL STANDARD	0.075	11:16
BLANK TEST	0.000	11:17
SUBJECT SAMPLE	INCOMPLETE	11:19



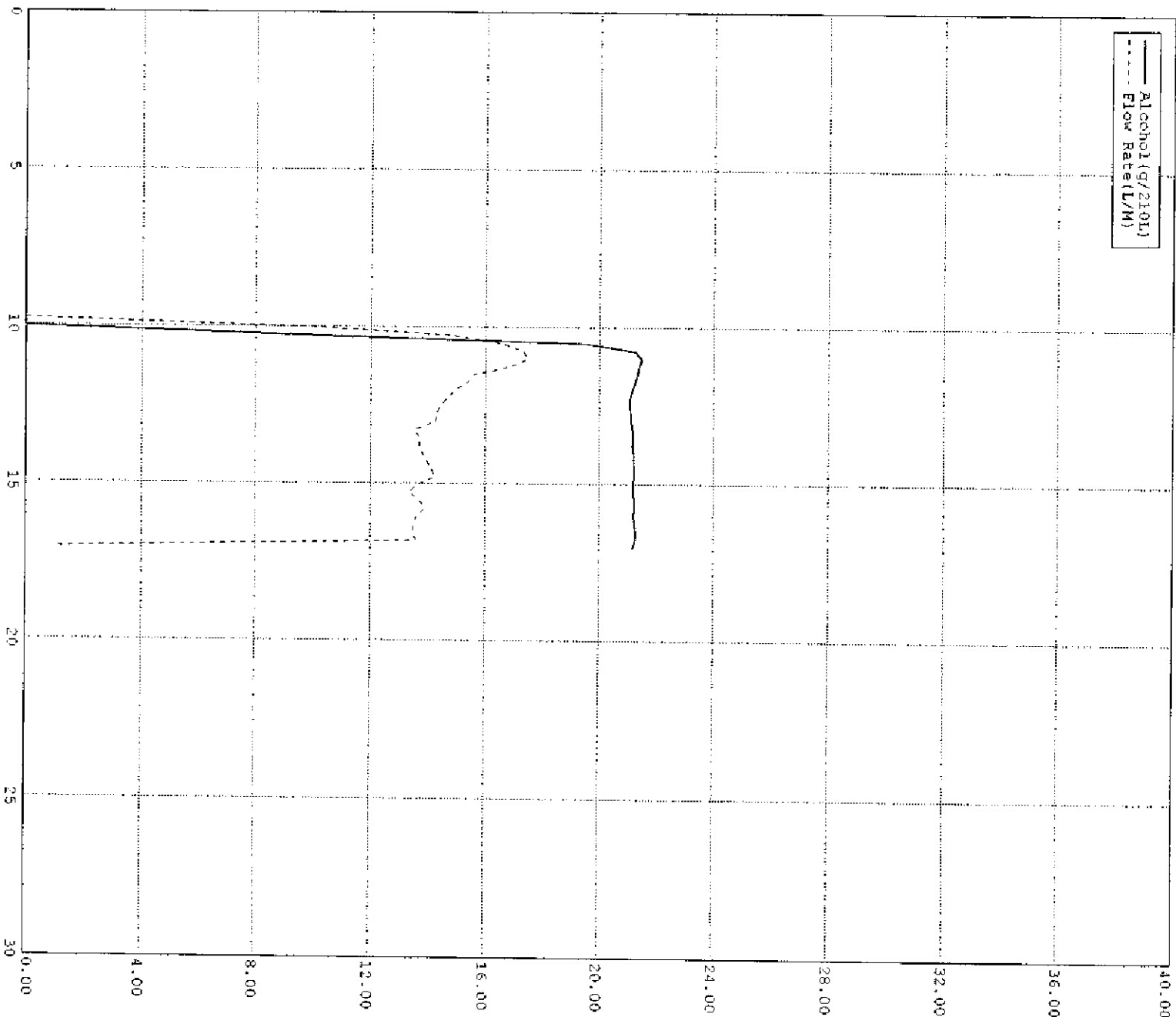
SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100673Date: 09/19/2014
Time: 13:52:39SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INVALID MOUTH ETOH
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015DIAGNOSTIC CHECK
BLANK TEST PASSED 13:56
INTERNAL STANDARD VERIFIED 13:56
EXTERNAL STANDARD 0.075 13:57
BLANK TEST 0.000 13:58
SUBJECT SAMPLE INVALID 13:58

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100673Date: 09/19/2014
Time: 14:13:57SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ACETONE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.04: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:20
BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
XQ = 0.075 (0.93%)		
EXTERNAL STANDARD	0.075	14:20
X[1] = 0.0753 (-0.0008) (0.0012)		
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INTERFERENCE	14:22
X[1] = 0.1063 (-0.0166) (0.0002)		

Filter 2 Avg = -0.0009
Filter 3 Avg = 0.0016CFF
9/22/14

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100673

Date: 09/19/2014
 Time: 14:27:25

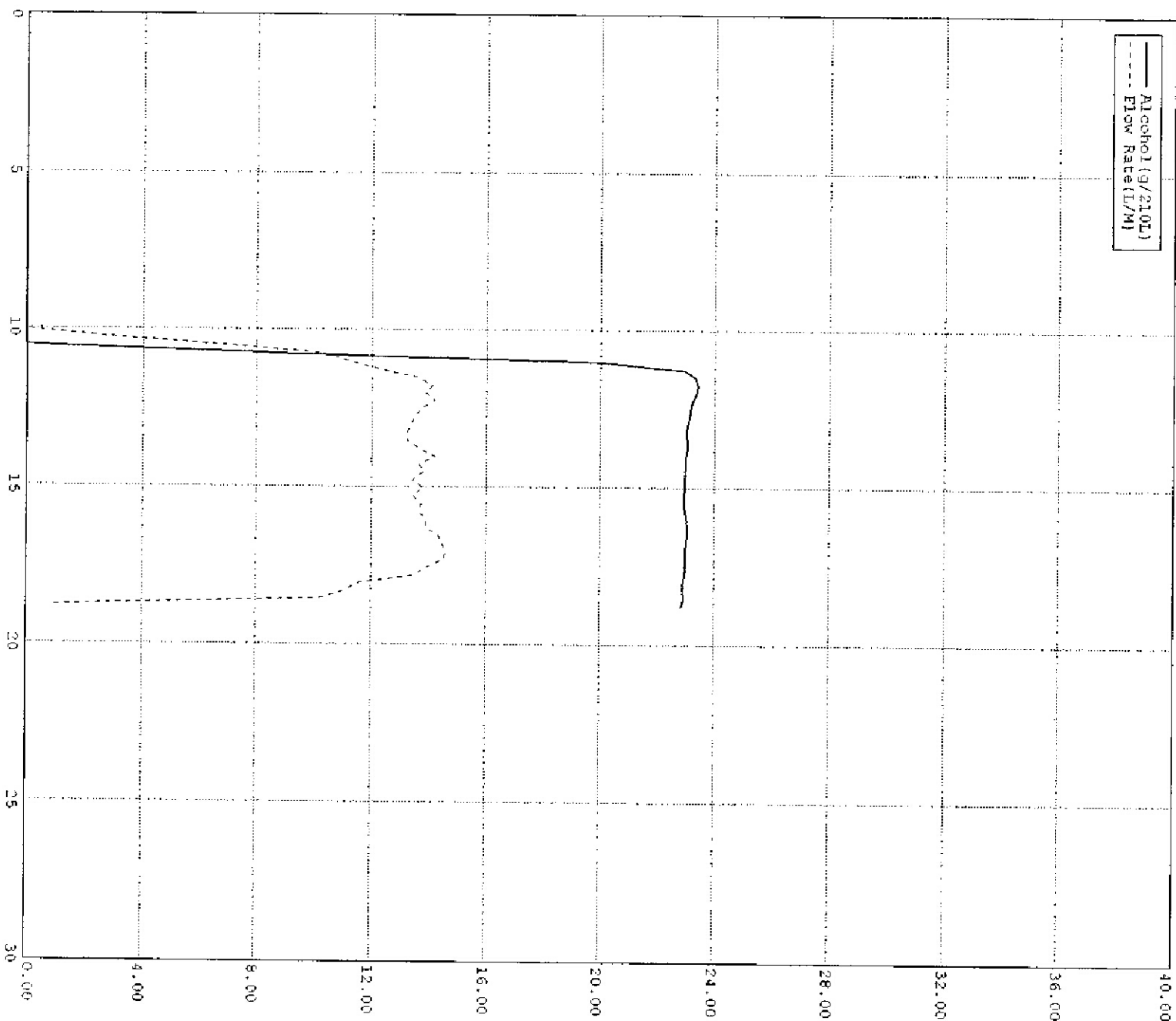
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.04: 0.077
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	14:31
BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
Xg = 0.075 (0.238)		
EXTERNAL STANDARD	0.075	14:31
X[1] = 0.0753 (-0.0013)	(0.0019)	
BLANK TEST	0.000	14:32
SUBJECT SAMPLE	INTERFERENCE	14:32
X[1] = 0.1152 (-0.0257)	(0.0015)	



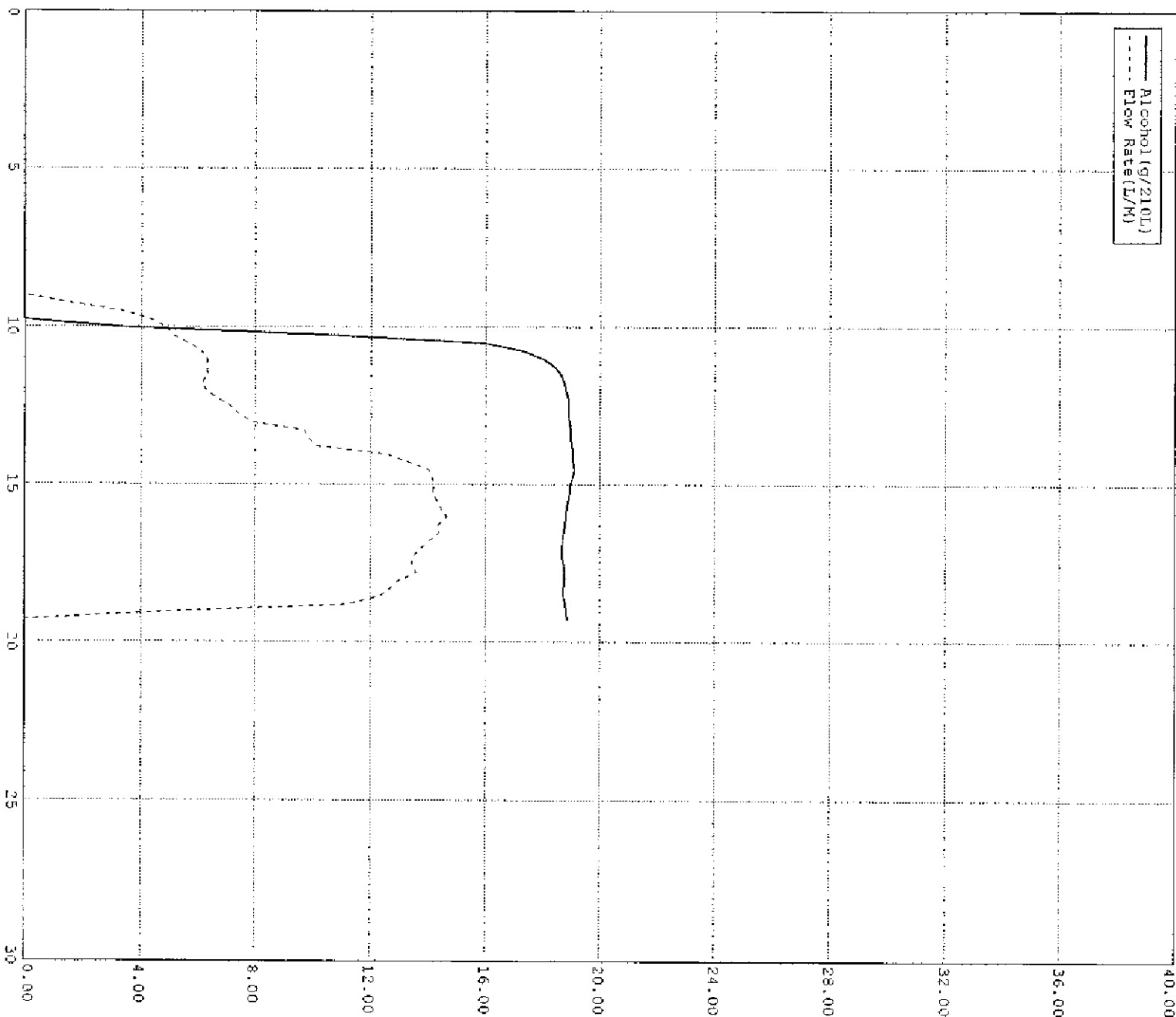
SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100673Date: 09/19/2014
Time: 14:38:53SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE NEGATIVE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.05: 0.077
LOT #: 11313080A1
EXPIRATION: 06/01/2015

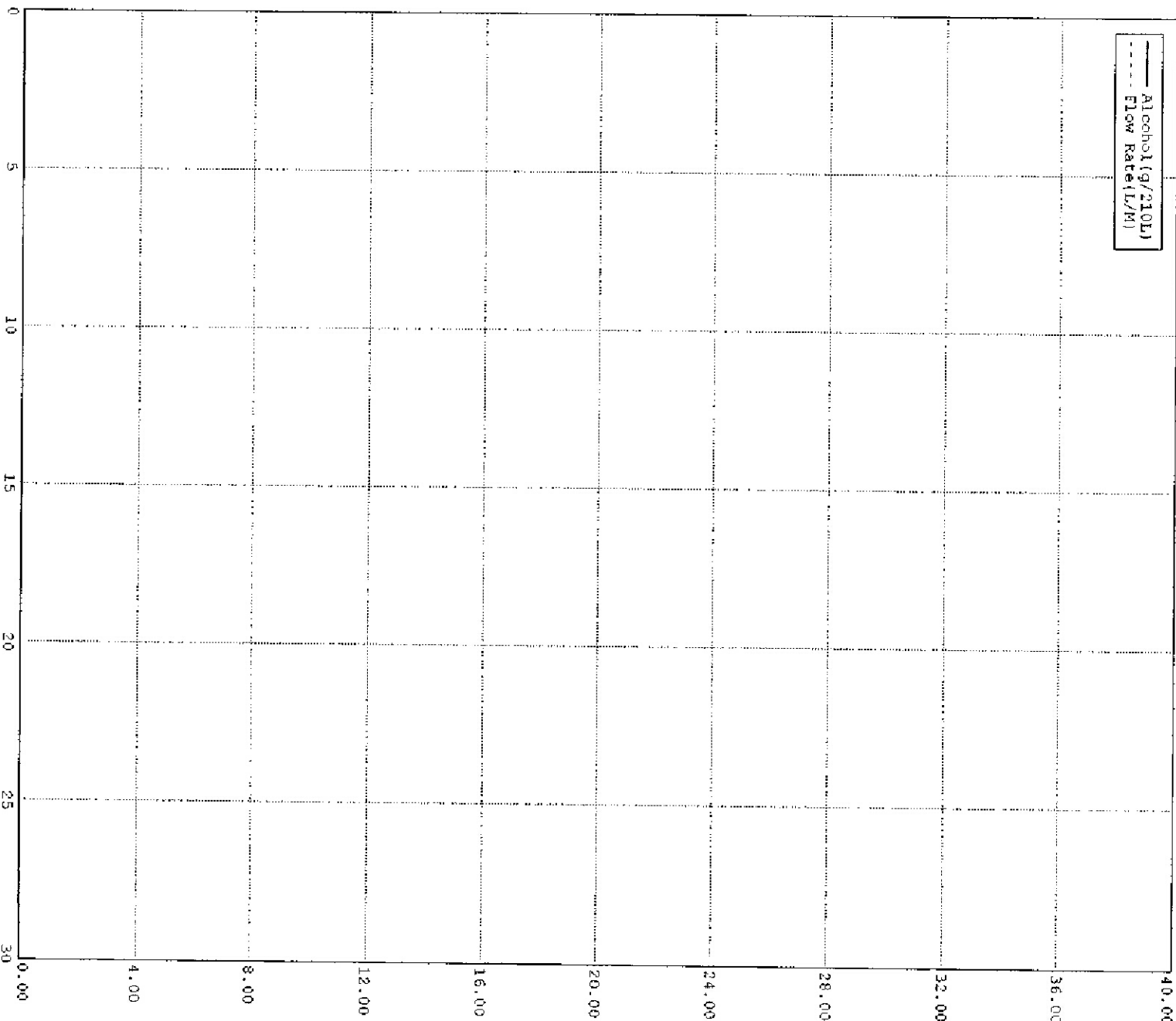
DIAGNOSTIC CHECK	PASSED	14:44
BLANK TEST	0.000	14:44
INTERNAL STANDARD	VERIFIED	14:44
X _g = 0.075 (0.93%)		
EXTERNAL STANDARD	0.075	14:44
X[1] = 0.0754 (-0.0010)	(0.0015)	
BLANK TEST	0.000	14:45
SUBJECT SAMPLE (Vol=1.65L)	0.094	14:46
X[1] = 0.0945 (0.0010)	(0.0010)	
BLANK TEST	0.000	14:47
EXTERNAL STANDARD	0.075	14:47
X[1] = 0.0752 (-0.0006)	(0.0016)	
BLANK TEST	0.000	14:48



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100673Date: 09/22/2014
Time: 08:17:17SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.32: 0.078
LOT #: 11313080A1
EXPIRATION: 06/01/2015DIAGNOSTIC CHECK
BLANK TEST PASSED 08:19
INTERNAL STANDARD VERIFIED 08:19
EXTERNAL STANDARD 0.076 08:19
BLANK TEST 0.000 08:20

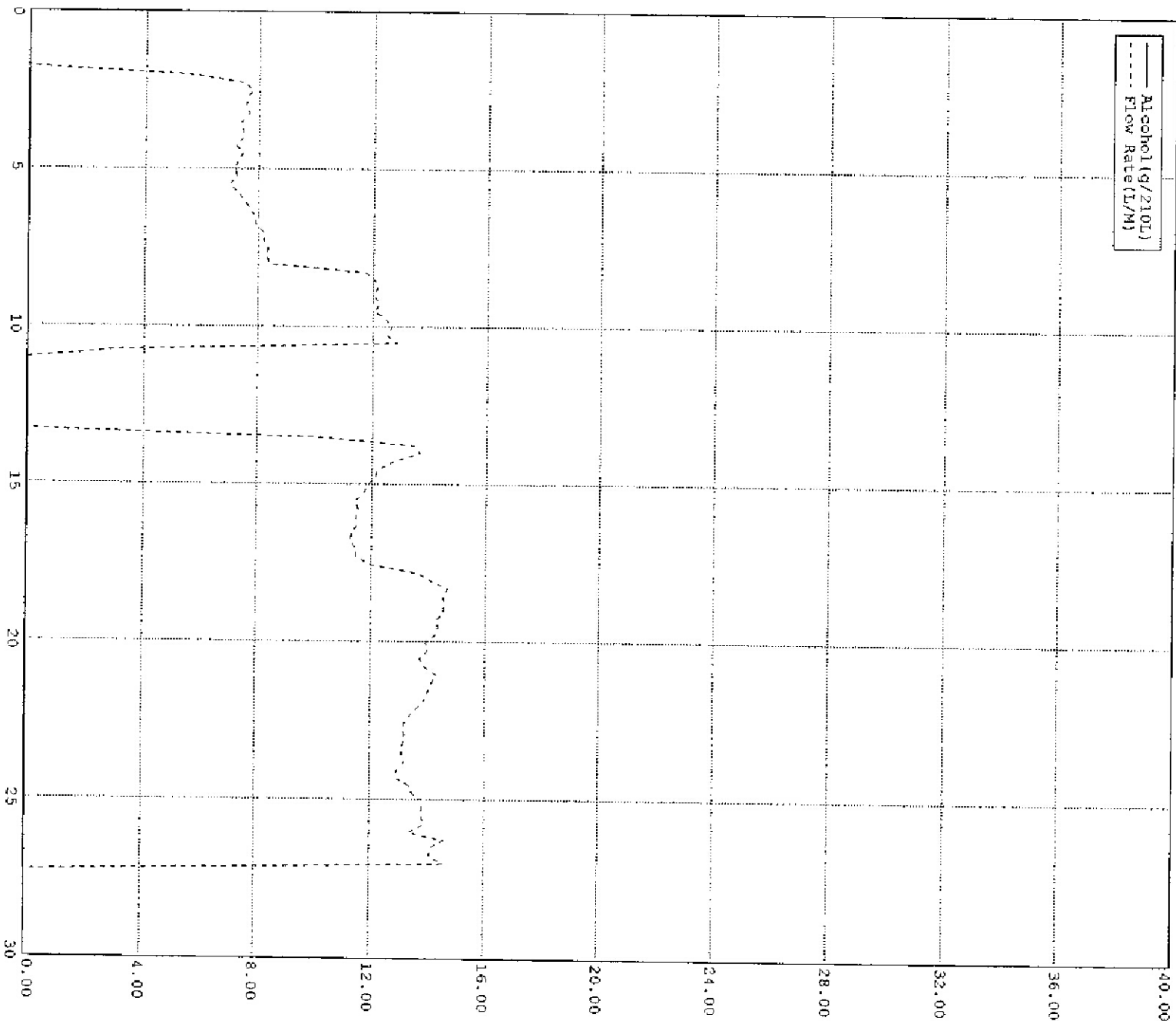
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100673Date: 09/22/2014
Time: 08:45:35SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734DEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.33: 0.078
LOT #: 11313080A1
EXPIRATION: 06/01/2015

	PASSED	08:47
DIAGNOSTIC CHECK	0.000	08:47
INTERNAL STANDARD	0.076	08:48
EXTERNAL STANDARD	0.000	08:49
BLANK TEST	0.000	08:49
SUBJECT SAMPLE	0.000	08:50
BLANK TEST	0.076	08:50
EXTERNAL STANDARD	0.000	08:51
BLANK TEST		



Final page for report

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12/2/2014