

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012Version: DMCEF2012 R1
Status: ActiveInstrument S/N 100665 Analyst CRF Start Date 1/8/13
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 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N DR4162 Date Calibrated 10/9/12vi. 0.300g/210L Mnf Guth Lot 12050 Exp 3/21/141. Simulator S/N DR4178 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/131. Simulator S/N DR5298 Date Calibrated 10/8/12ii. Isopropanol - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 10/9/12iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N SD1176 Date Calibrated 10/9/12d. 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 1/9/13

All printed copies are uncontrolled.

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 01/08/2013
Time: 12:27:27

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 45.0°C	PASSED

PUMP INFO	
Flow Rate = 5.170 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
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2/19
C/E

Technician Screen

DATAMASTER dmt: 100665

Date: 01/08/2013

Time: 10:31 AM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 44.7°C

Current Barometer 29.4 in

Volume (Ltr) 1.53

Settings

Lamp: 1.67 V

Bias: 79 V

Cooler: 1.70 V

Chopper: 550 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.034 V

3/19
LF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 04/17/2012
Time: 04:30:06

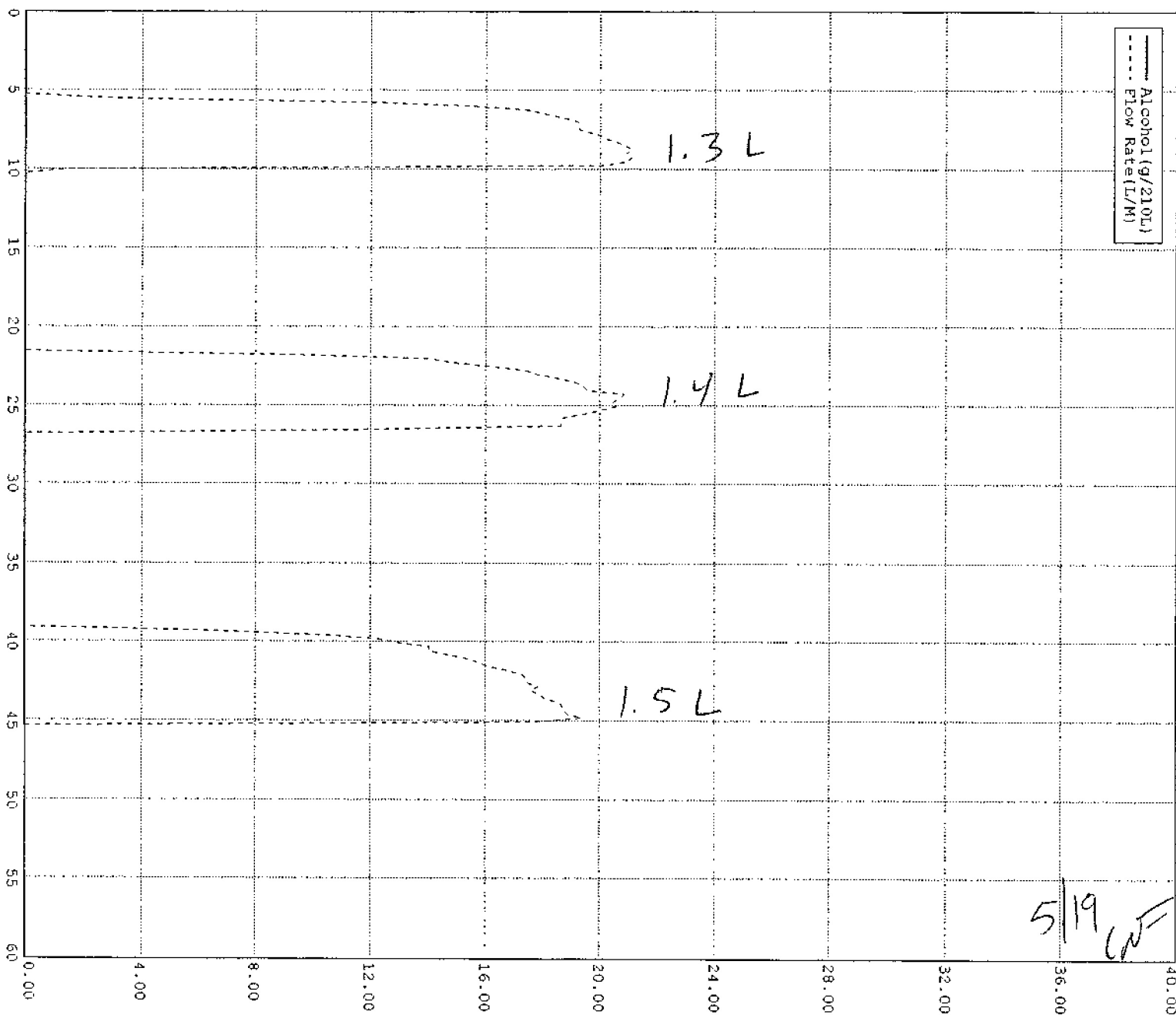
Ca = 0.1000
CAL = 0.968497 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0003 0.0000 <= b3 < 0.0040
Xq = 0.1289 0.0500 <= Xq < 0.2000
a21 = 1.229257 1.050 <= a21 < 1.300
a31 = 0.541082 0.300 <= a31 < 0.800

4/19
CNE

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100665Date: 01/08/2013
Time: 12:44:14SUBJECT 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 29.45: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	12:45
BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.077	12:45
BLANK TEST	0.000	12:46
SUBJECT SAMPLE	0.000	12:47
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.077	12:48
BLANK TEST	0.000	12:49

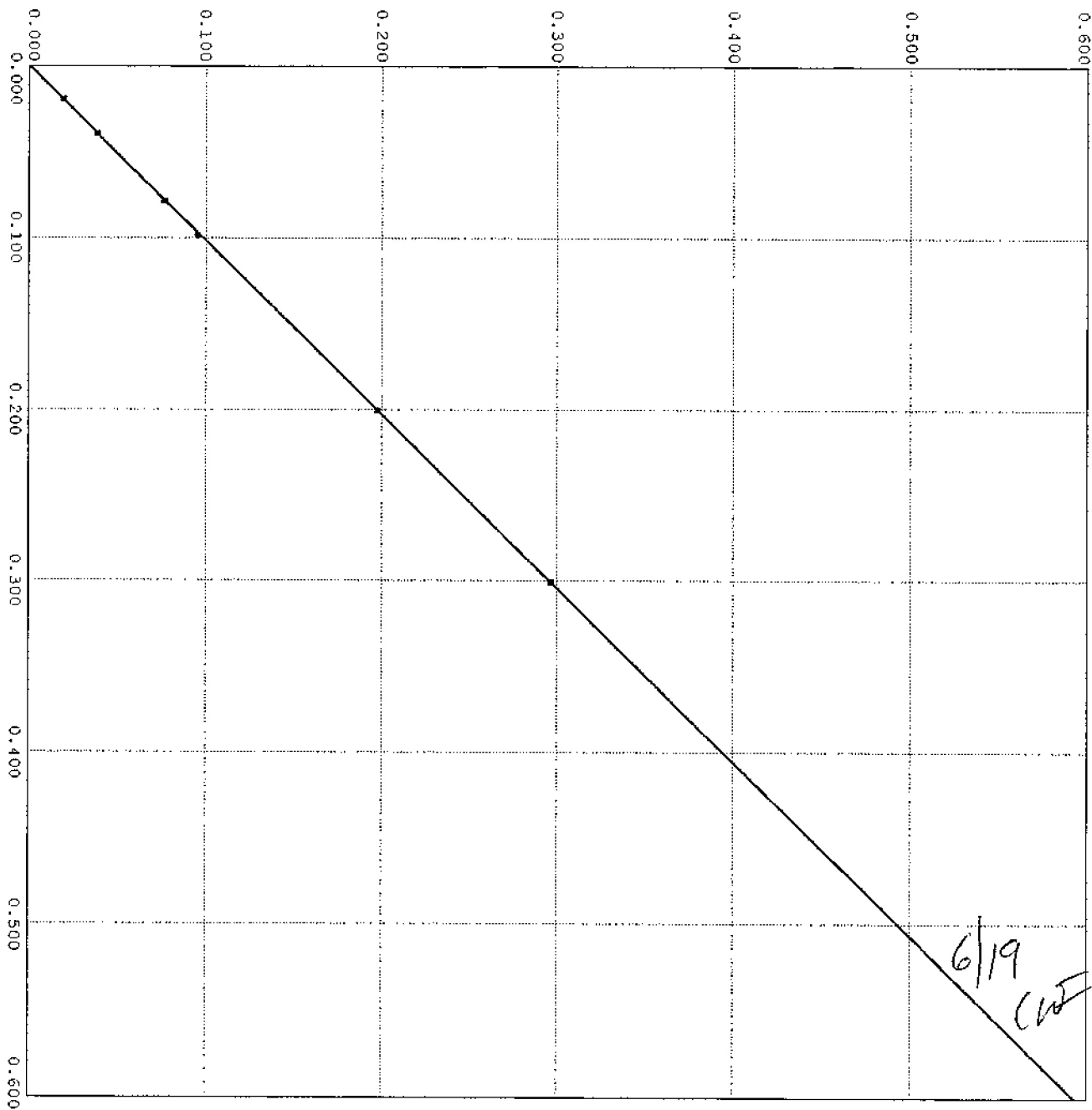


LINEARITY CHECK

Alaska Department of Public Safety
DATAMASTER dnt: 100665Date: 01/08/2013
Time: 13:41:08SUPERVISOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0002
0.039	0.0394	0.0001
0.078	0.0777	0.0002
0.098	0.0962	0.0002
0.200	0.1985	0.0002
0.300	0.2972	0.0009

SLOPE	= 0.987455
R ²	= 0.999960



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100665

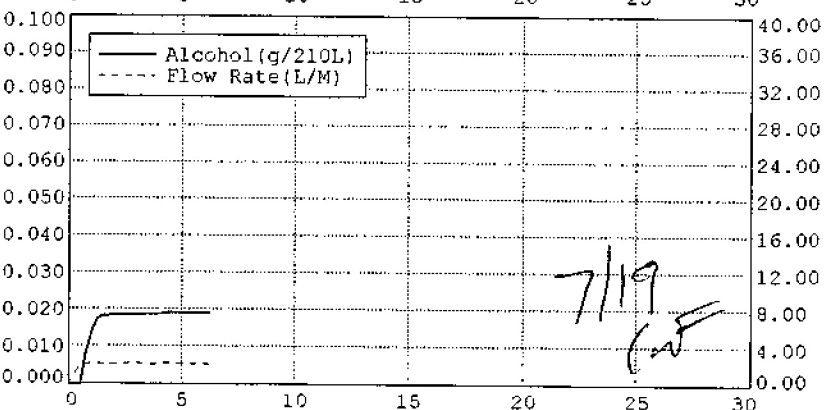
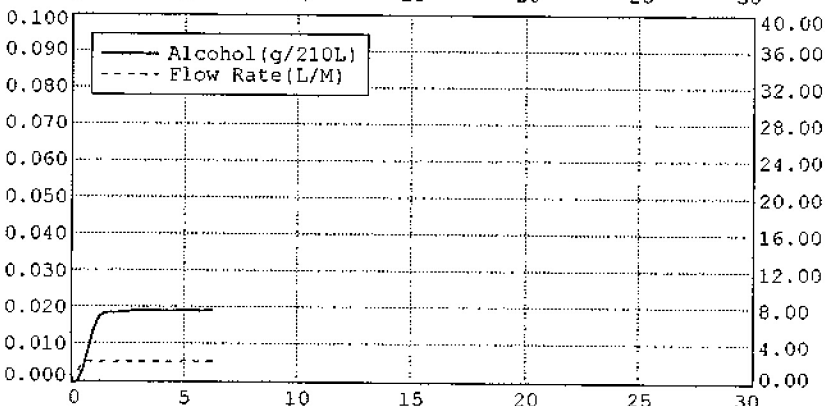
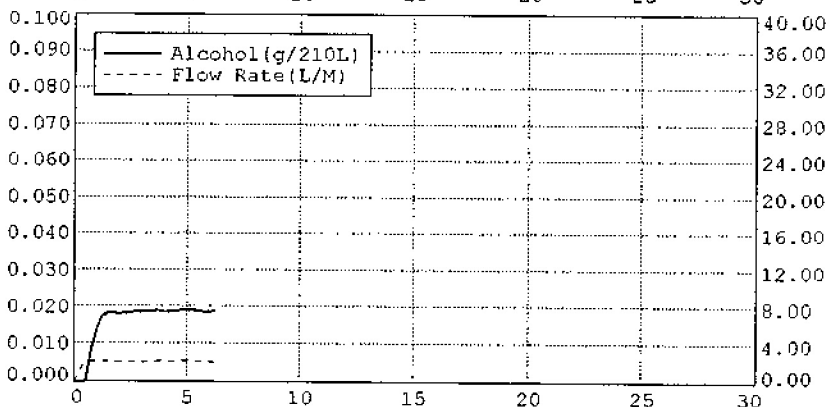
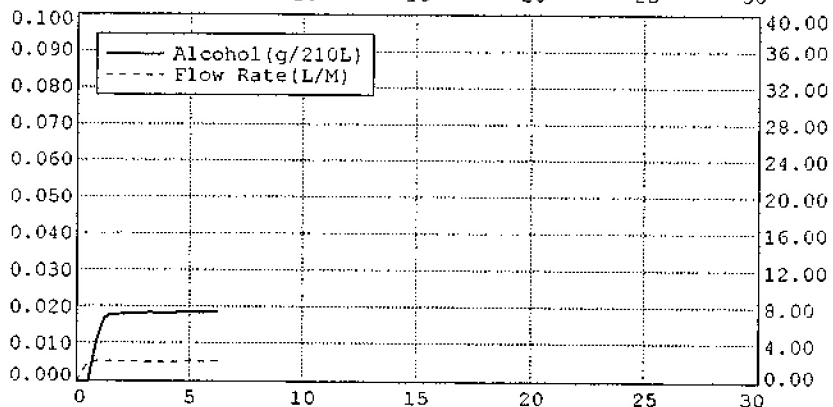
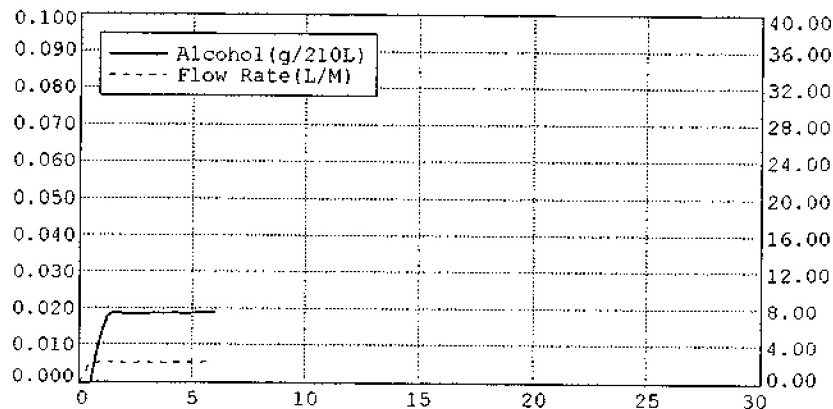
Date: 01/08/2013
Time: 13:41:09

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.46: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:42
INTERNAL STANDARD	VERIFIED	13:42
EXTERNAL STANDARD	0.020	13:43
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.020	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.020	13:45
BLANK TEST	0.000	13:46
EXTERNAL STANDARD	0.020	13:46
BLANK TEST	0.000	13:47
EXTERNAL STANDARD	0.020	13:47
BLANK TEST	0.000	13:48

Average = 0.0202
Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100665

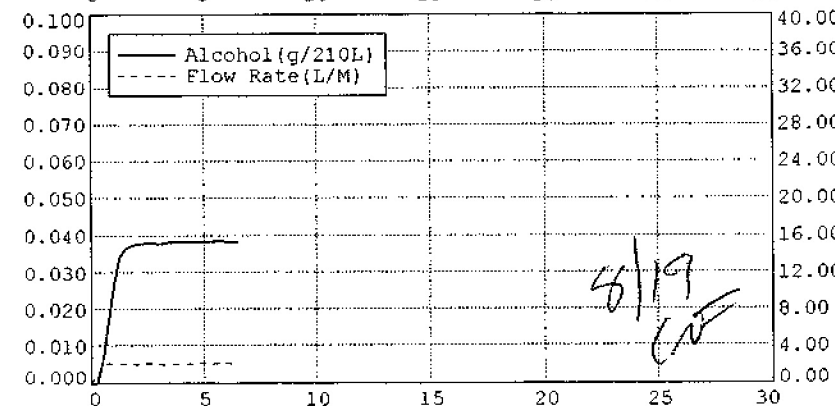
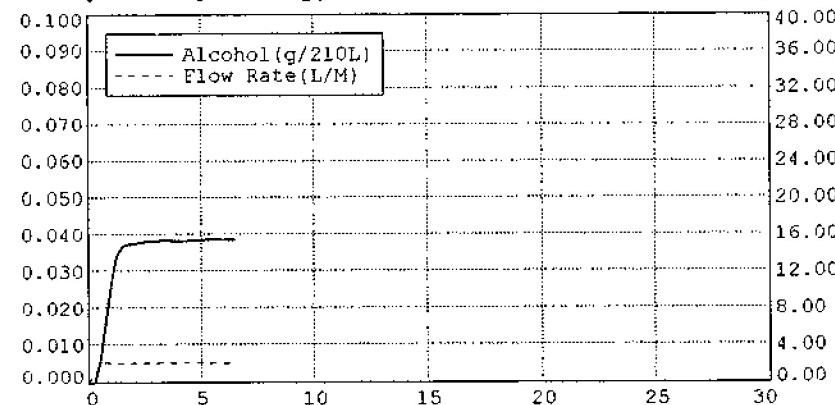
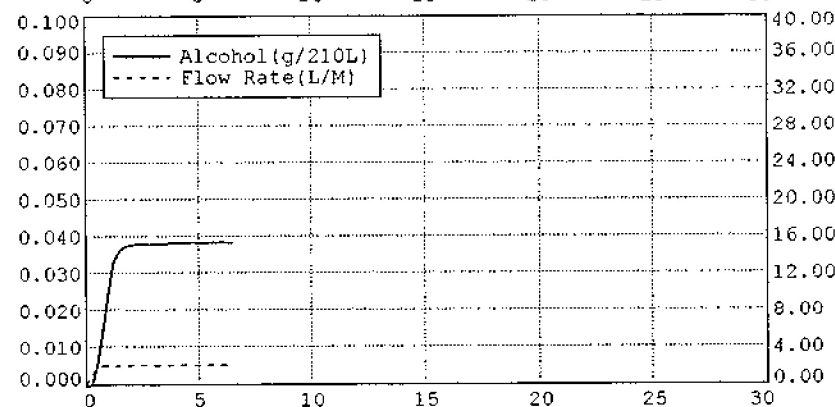
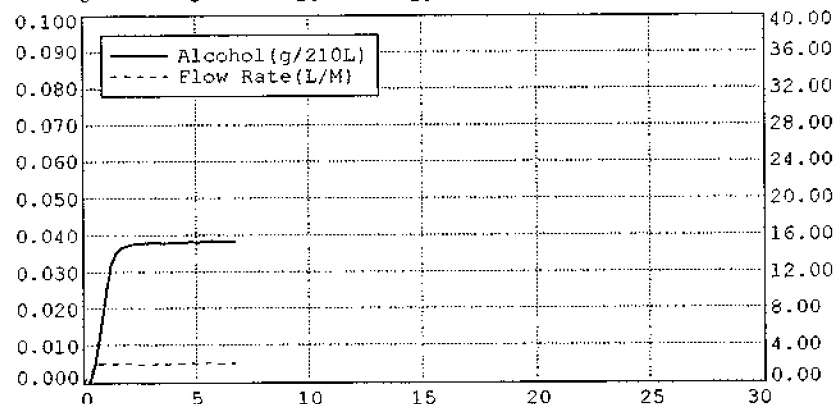
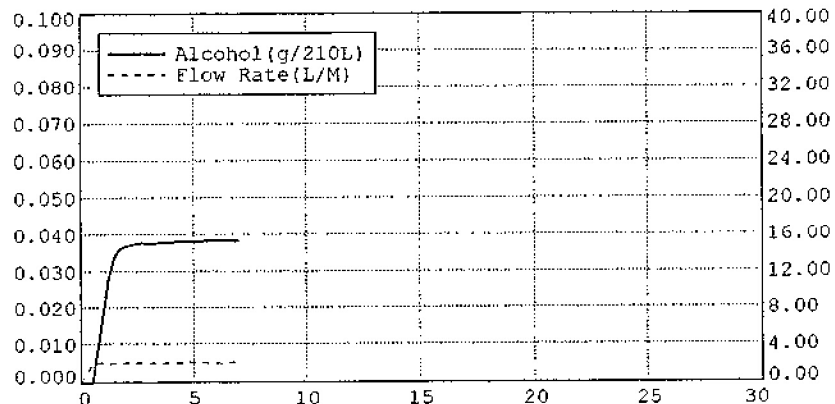
Date: 01/08/2013
Time: 13:56:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.48: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:57
INTERNAL STANDARD	VERIFIED	13:58
EXTERNAL STANDARD	0.039	13:58
BLANK TEST	0.000	13:59
EXTERNAL STANDARD	0.039	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.039	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.039	14:01
BLANK TEST	0.000	14:02
EXTERNAL STANDARD	0.039	14:02
BLANK TEST	0.000	14:03

Average = 0.0394
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100665

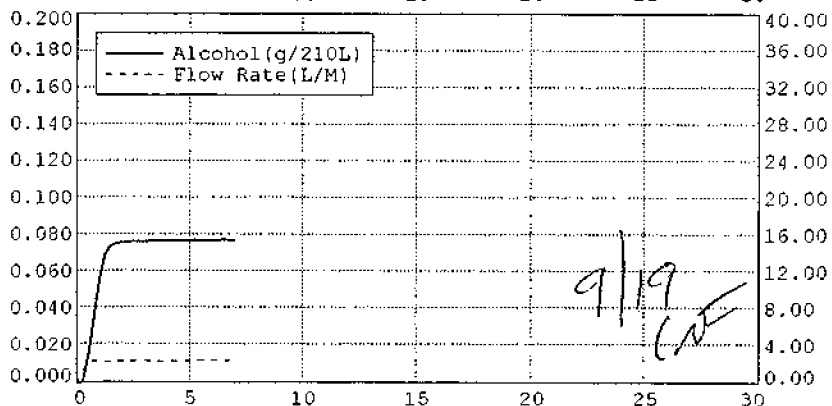
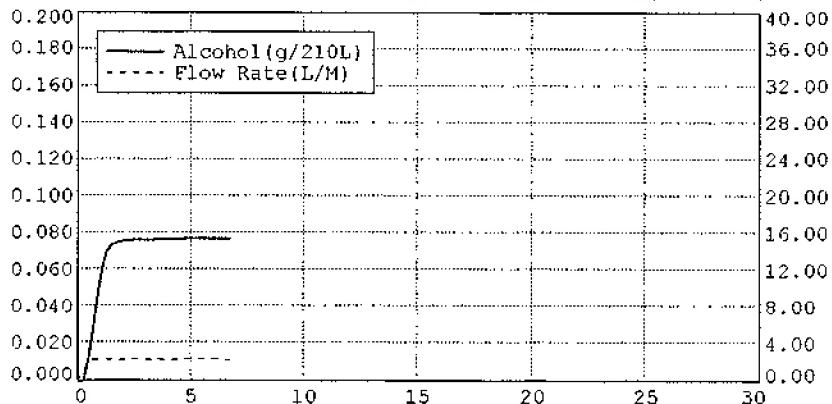
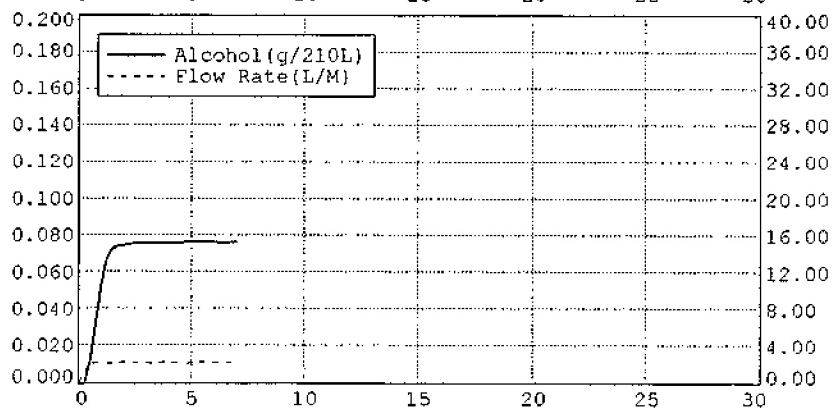
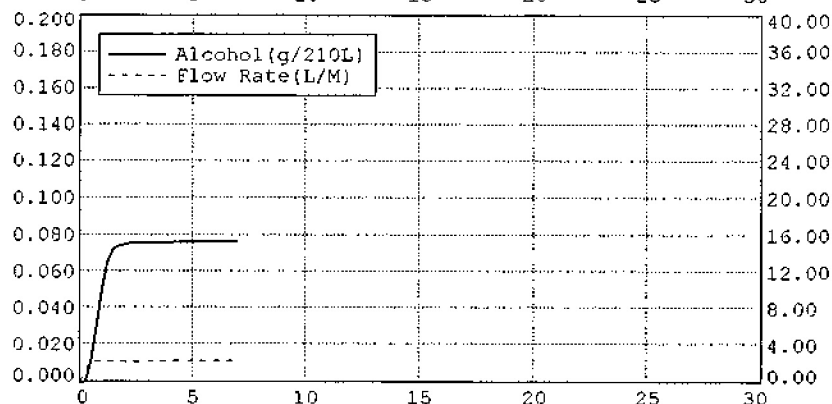
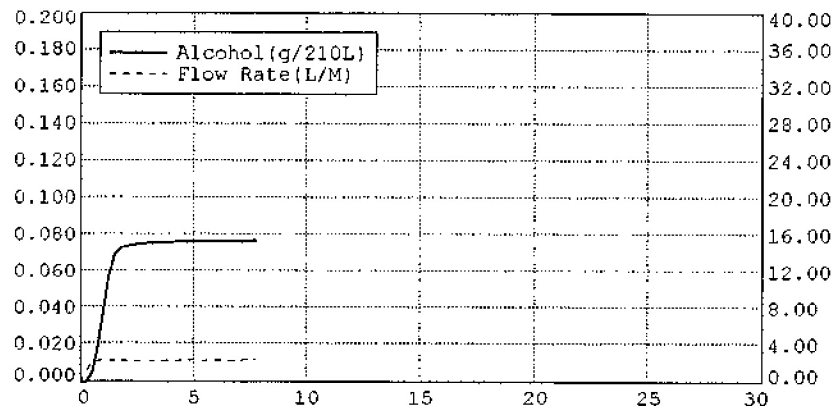
Date: 01/08/2013
Time: 14:06:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.49: 0.078
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	14:07
INTERNAL STANDARD	VERIFIED	14:07
EXTERNAL STANDARD	0.077	14:07
BLANK TEST	0.000	14:08
EXTERNAL STANDARD	0.077	14:09
BLANK TEST	0.000	14:09
EXTERNAL STANDARD	0.077	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.078	14:11
BLANK TEST	0.000	14:12
EXTERNAL STANDARD	0.077	14:12
BLANK TEST	0.000	14:13

Average = 0.0777
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100665

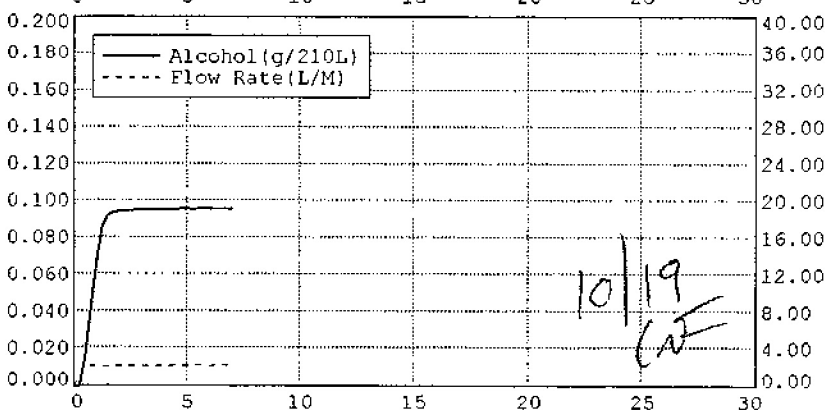
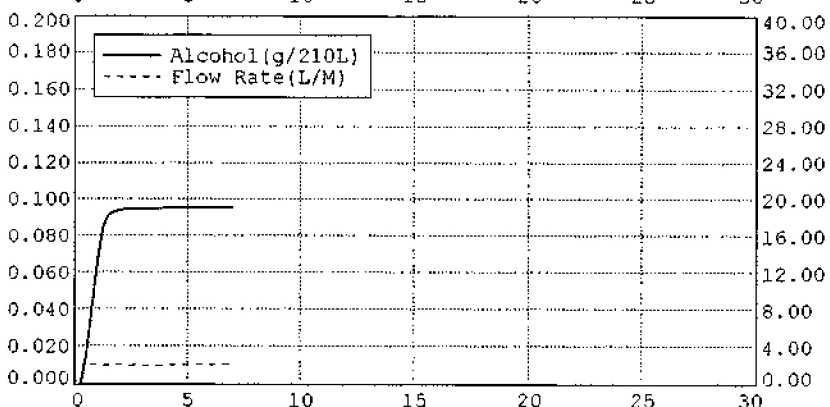
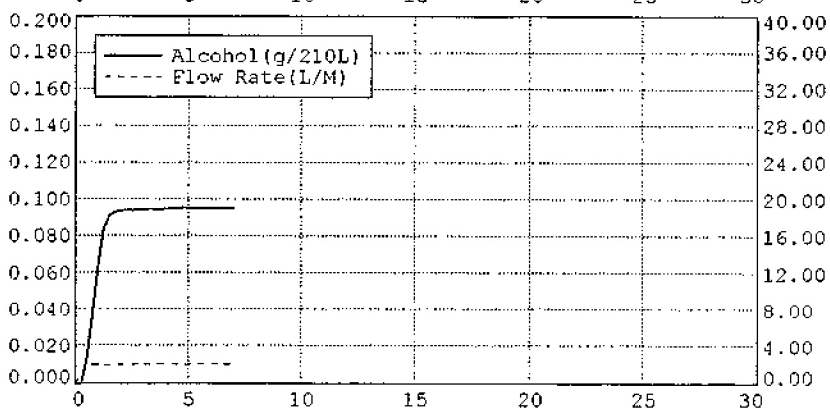
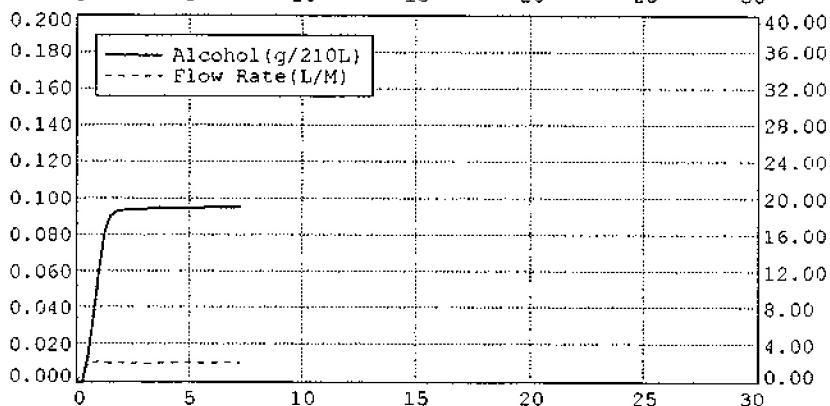
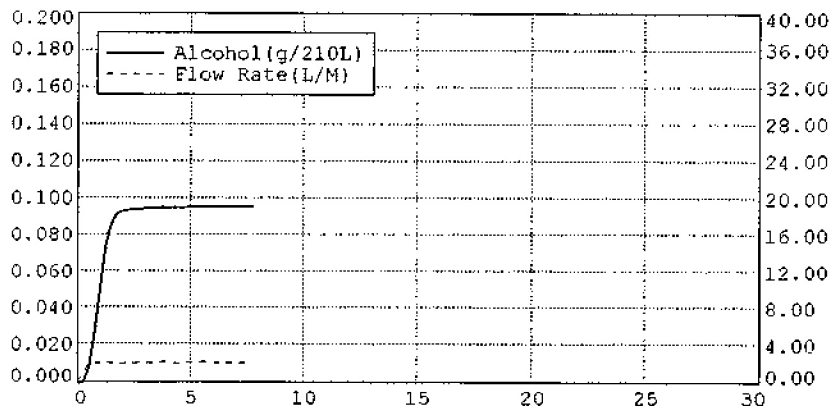
Date: 01/08/2013
Time: 14:16:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.49: 0.098
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:17
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.096	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.096	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.096	14:20
BLANK TEST	0.000	14:21
EXTERNAL STANDARD	0.096	14:21
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.096	14:22
BLANK TEST	0.000	14:23

Average = 0.0962
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100665

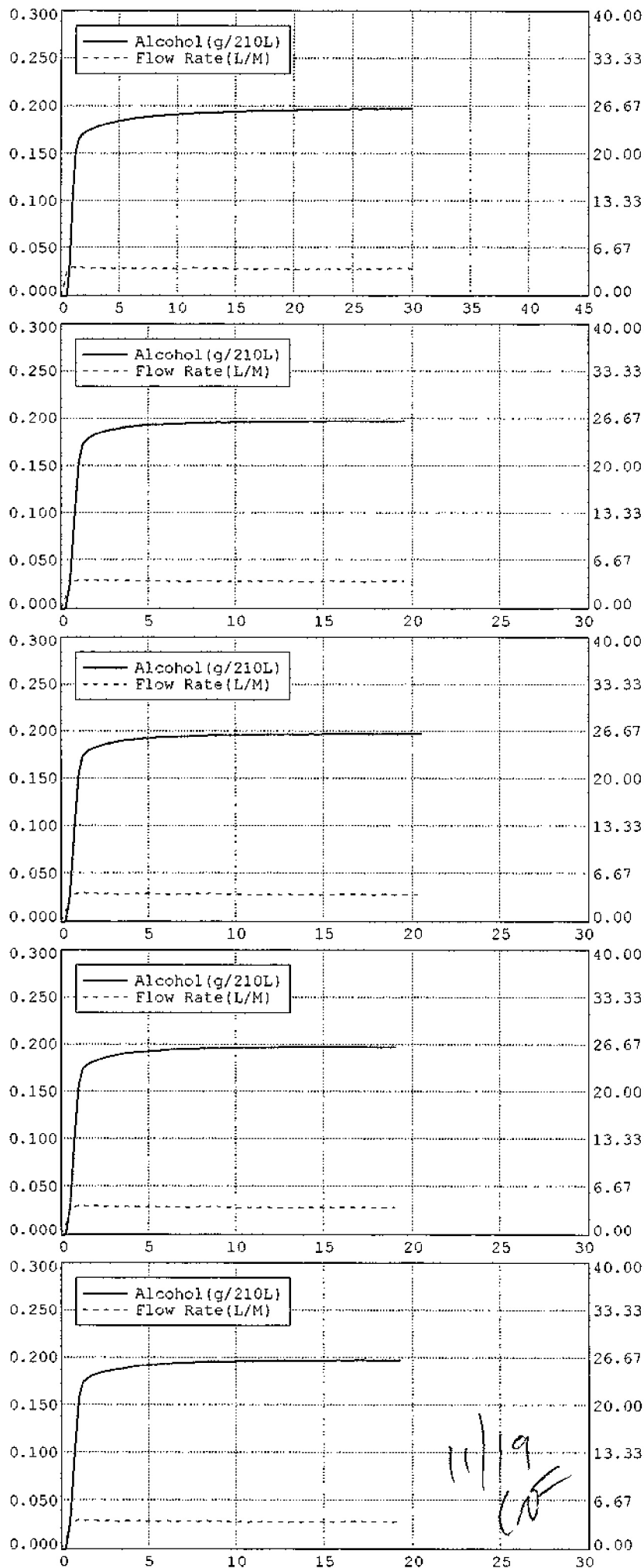
Date: 01/08/2013
Time: 14:25:41

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	14:27
INTERNAL STANDARD	VERIFIED	14:27
EXTERNAL STANDARD	0.198	14:28
BLANK TEST	0.000	14:29
EXTERNAL STANDARD	0.198	14:29
BLANK TEST	0.000	14:30
EXTERNAL STANDARD	0.198	14:31
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.198	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.198	14:33
BLANK TEST	0.000	14:34

Average = 0.1985
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100665

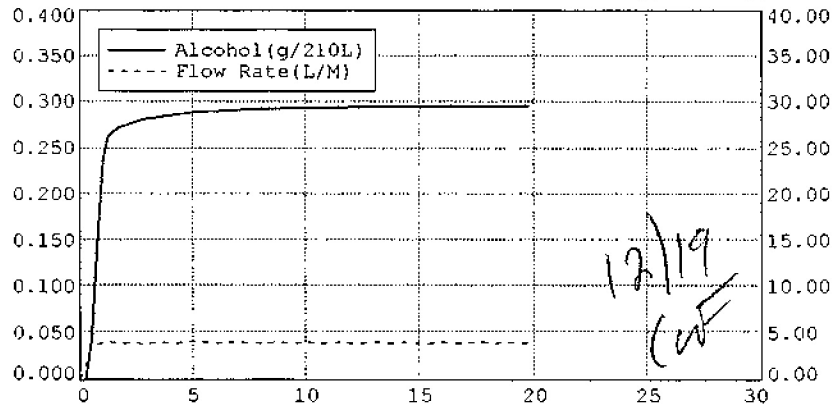
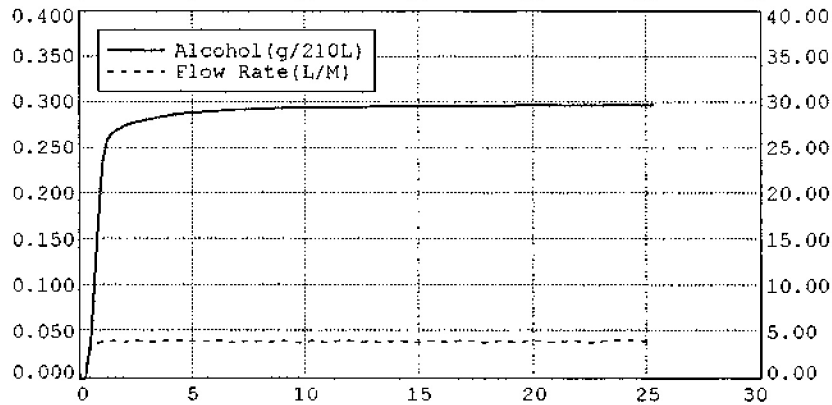
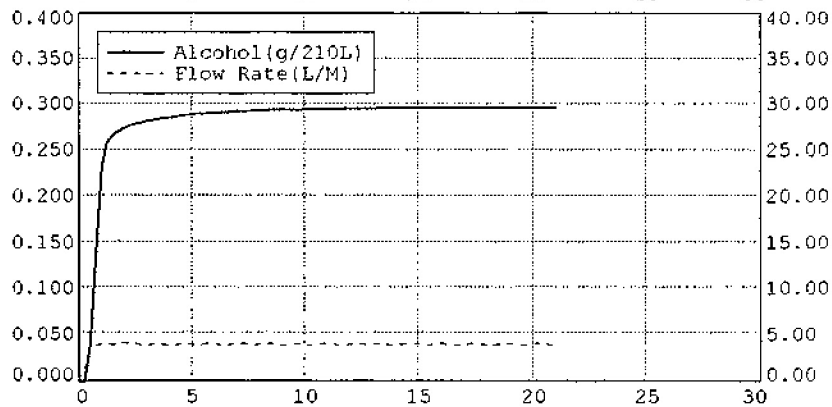
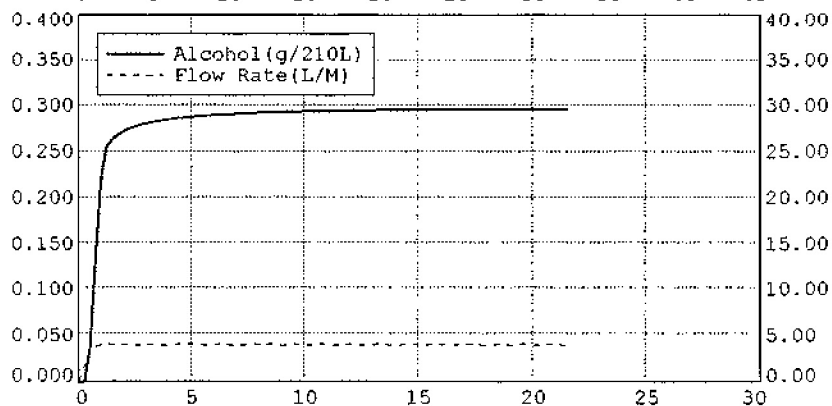
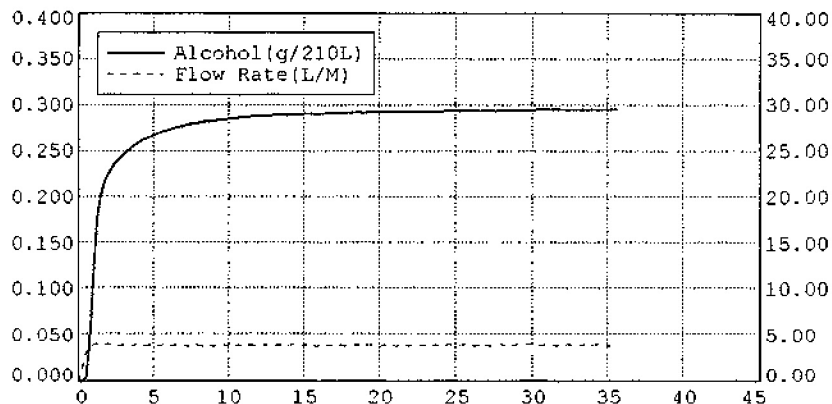
Date: 01/08/2013
Time: 14:38:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: 12050
EXPIRATION: 03/21/2014

BLANK TEST	0.000	14:39
INTERNAL STANDARD	VERIFIED	14:39
EXTERNAL STANDARD	0.296	14:40
BLANK TEST	0.000	14:41
EXTERNAL STANDARD	0.297	14:41
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.297	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.298	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.296	14:45
BLANK TEST	0.000	14:46

Average = 0.2972
Std Dev = 0.0009



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100665Date: 01/08/2013
Time: 15:03:03

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

INCOMPLETE XXXX

OPERATOR'S #: XXXX

DEPT/AGENCY:

XXXX

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.51: 0.078

LOT #: 02012080A1

EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

EXTERNAL STANDARD

BLANK TEST

SUBJECT SAMPLE

PASSED

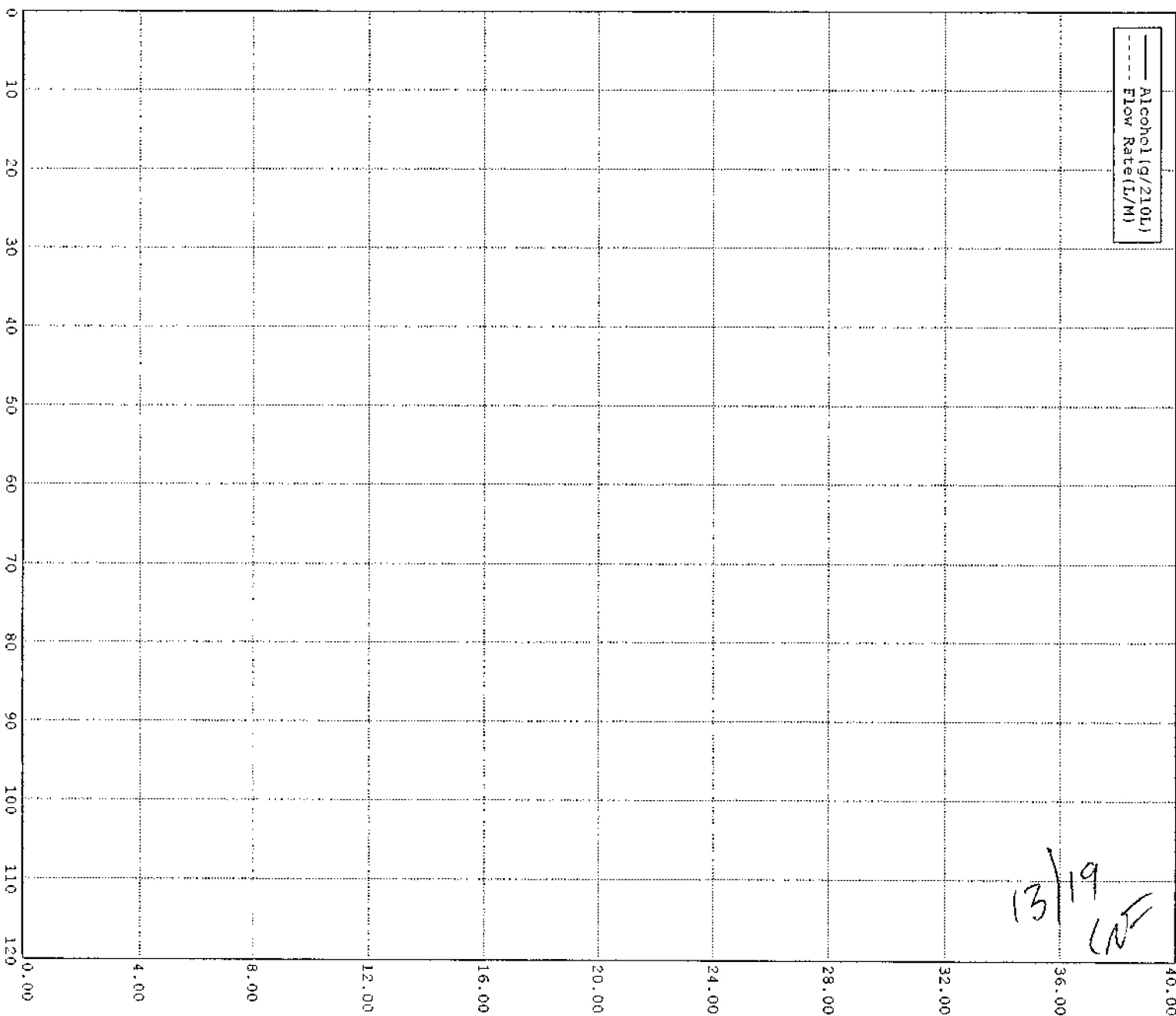
0.000

VERIFIED

0.077

0.000

INCOMPLETE

15:13
15:14
15:14
15:14
15:15
15:17

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100665

Date: 01/09/2013
 Time: 09:21:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INVALID MOUTH ETHANOL
 OPERATOR'S #: XXXX

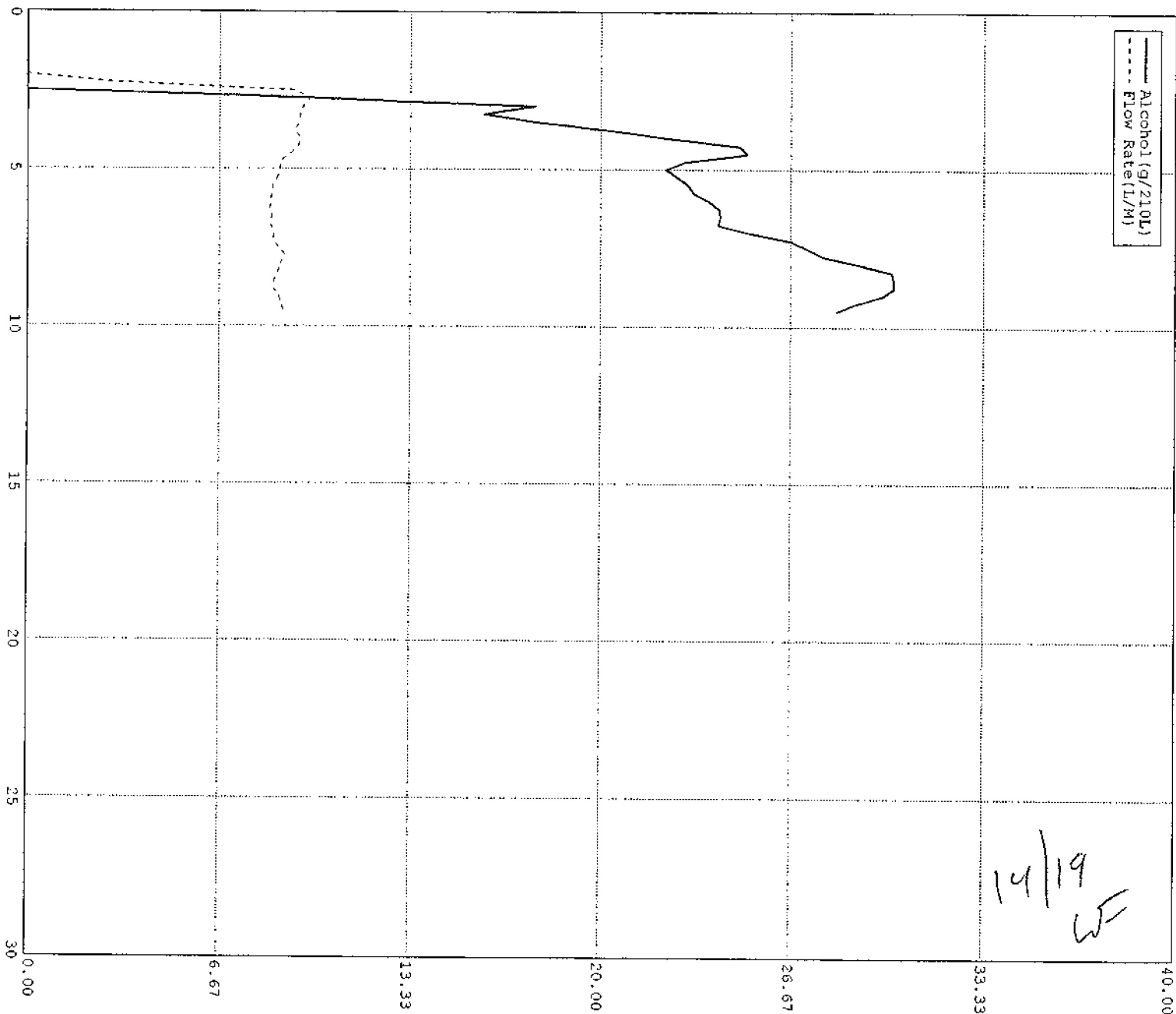
DEPT/AGENCY:
 XXXX

CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.79: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:25
BLANK TEST	0.000	09:25
INTERNAL STANDARD	VERIFIED	09:25
EXTERNAL STANDARD	0.078	09:25
BLANK TEST	0.000	09:26
SUBJECT SAMPLE	INVALID	09:26



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100665

Date: 01/09/2013
Time: 09:34:00

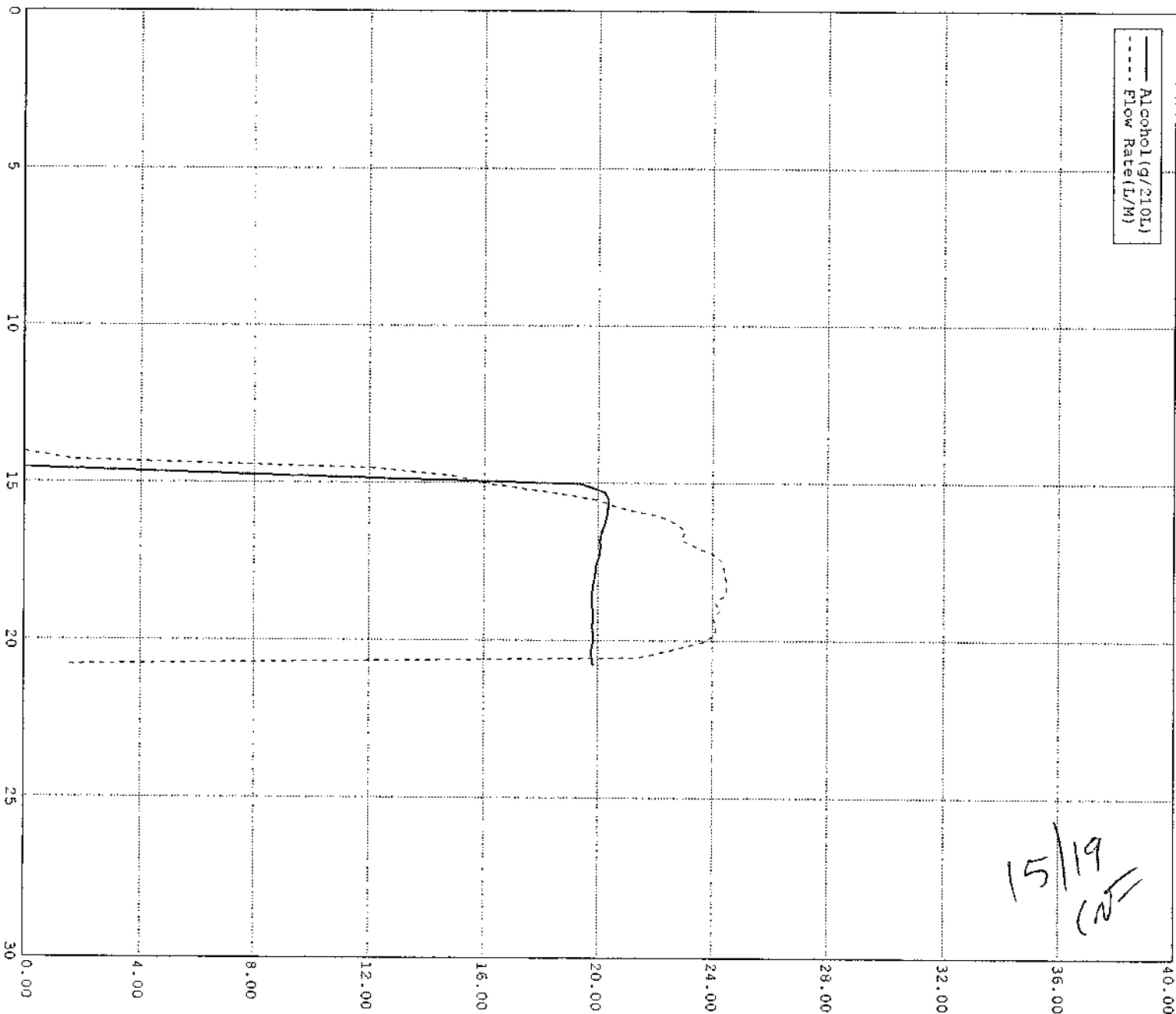
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE ETOH AND ACETONE
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.80: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:37
BLANK TEST	0.000	09:37
INTERNAL STANDARD	VERIFIED	09:37
Xg = 0.129 (0.14%)		
EXTERNAL STANDARD	0.078	09:37
X[1] = 0.0785 (0.0001)	0.0008	
BLANK TEST	0.000	09:38
SUBJECT SAMPLE	INTERFERENCE	09:39
X[1] = 0.1006 (-0.0175)	(0.0002)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100665

Date: 01/09/2013
 Time: 09:42:17

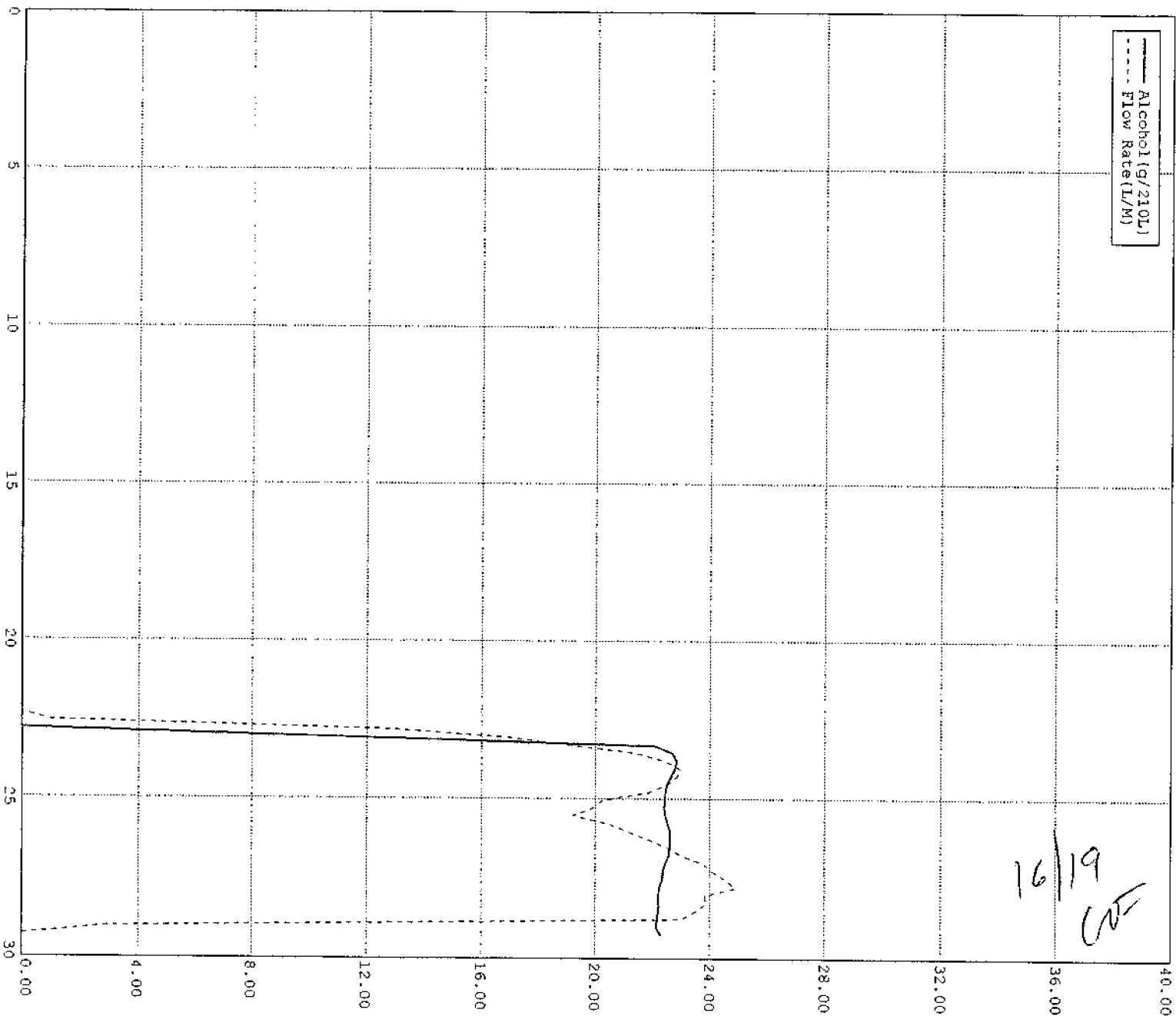
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE ETOH AND IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:45
BLANK TEST	0.000	09:46
INTERNAL STANDARD	VERIFIED	09:46
Xg = 0.129 (0.21%)		
EXTERNAL STANDARD	0.078	09:46
X[1] = 0.0785 (-0.0001) (0.0008)		
BLANK TEST	0.000	09:47
SUBJECT SAMPLE	INTERFERENCE	09:47
X[1] = 0.1119 (-0.0304) (0.0004)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100665

Date: 01/09/2013
 Time: 10:07:32

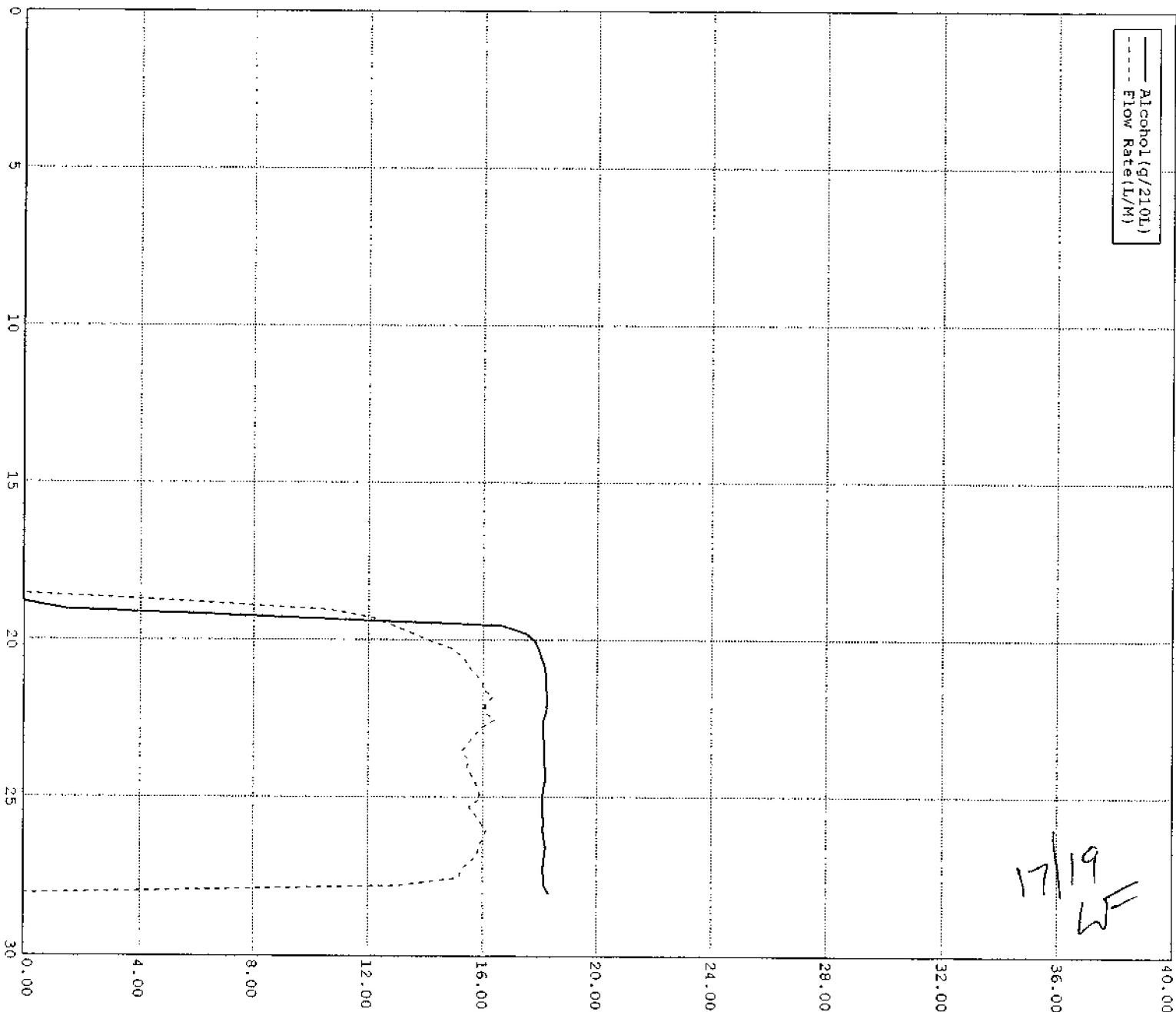
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE ETOH ONLY
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:13
BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
Xg = 0.129 (0.48%)		
EXTERNAL STANDARD	0.078	10:13
X[1] = 0.0788 (0.0000)	0.0012	
BLANK TEST	0.000	10:14
SUBJECT SAMPLE (Vol=2.32L)	0.092	10:15
X[1] = 0.0922 (-0.0020)	0.0000	
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.078	10:16
X[1] = 0.0781 (0.0001)	0.0013	
BLANK TEST	0.000	10:17



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100665

Date: 01/09/2013
 Time: 10:34:10

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

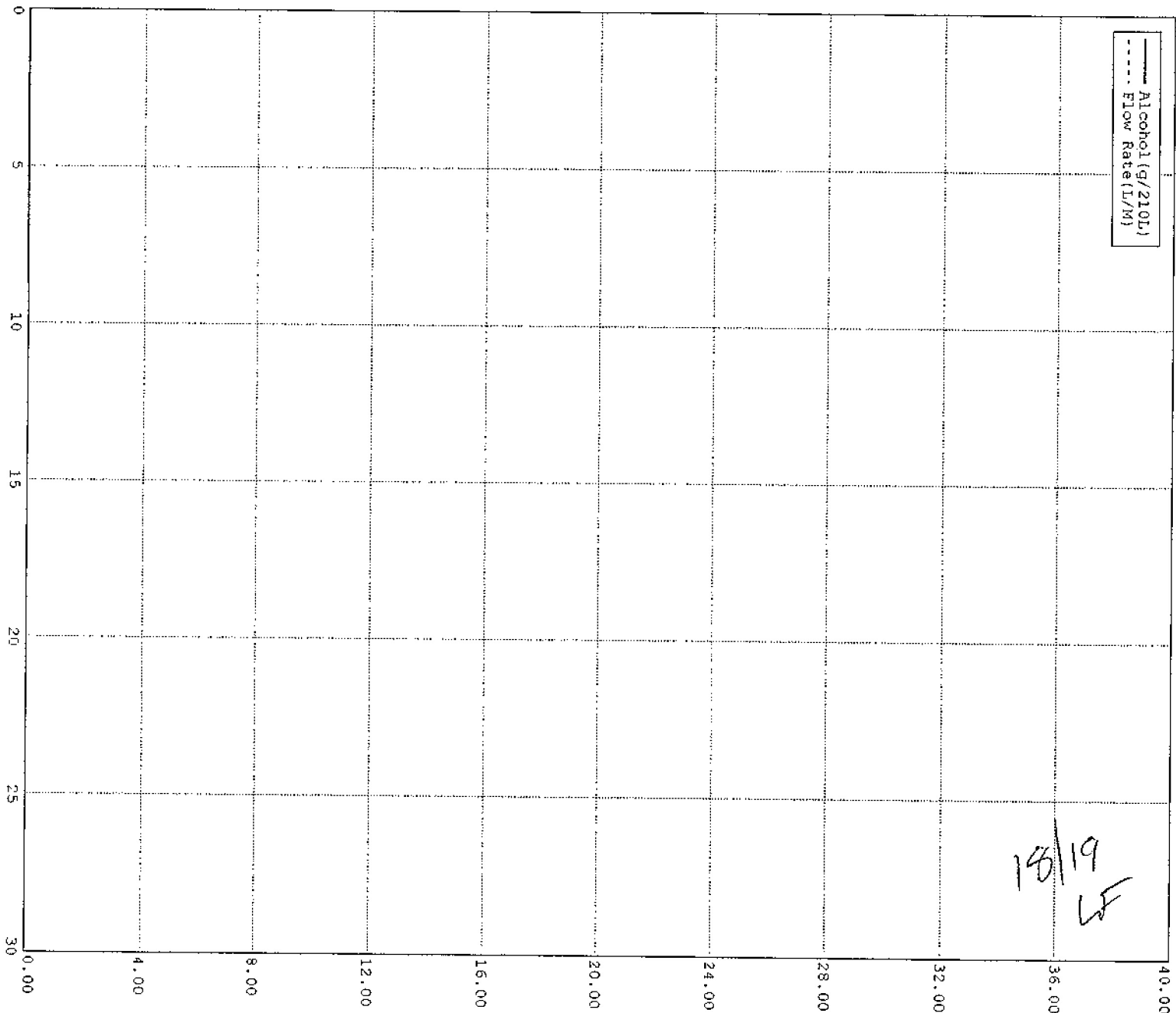
DEPT/AGENCY:
 XXXX

CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:36
BLANK TEST	0.000	10:36
INTERNAL STANDARD	VERIFIED	10:36
EXTERNAL STANDARD	0.077	10:36
BLANK TEST	0.000	10:37

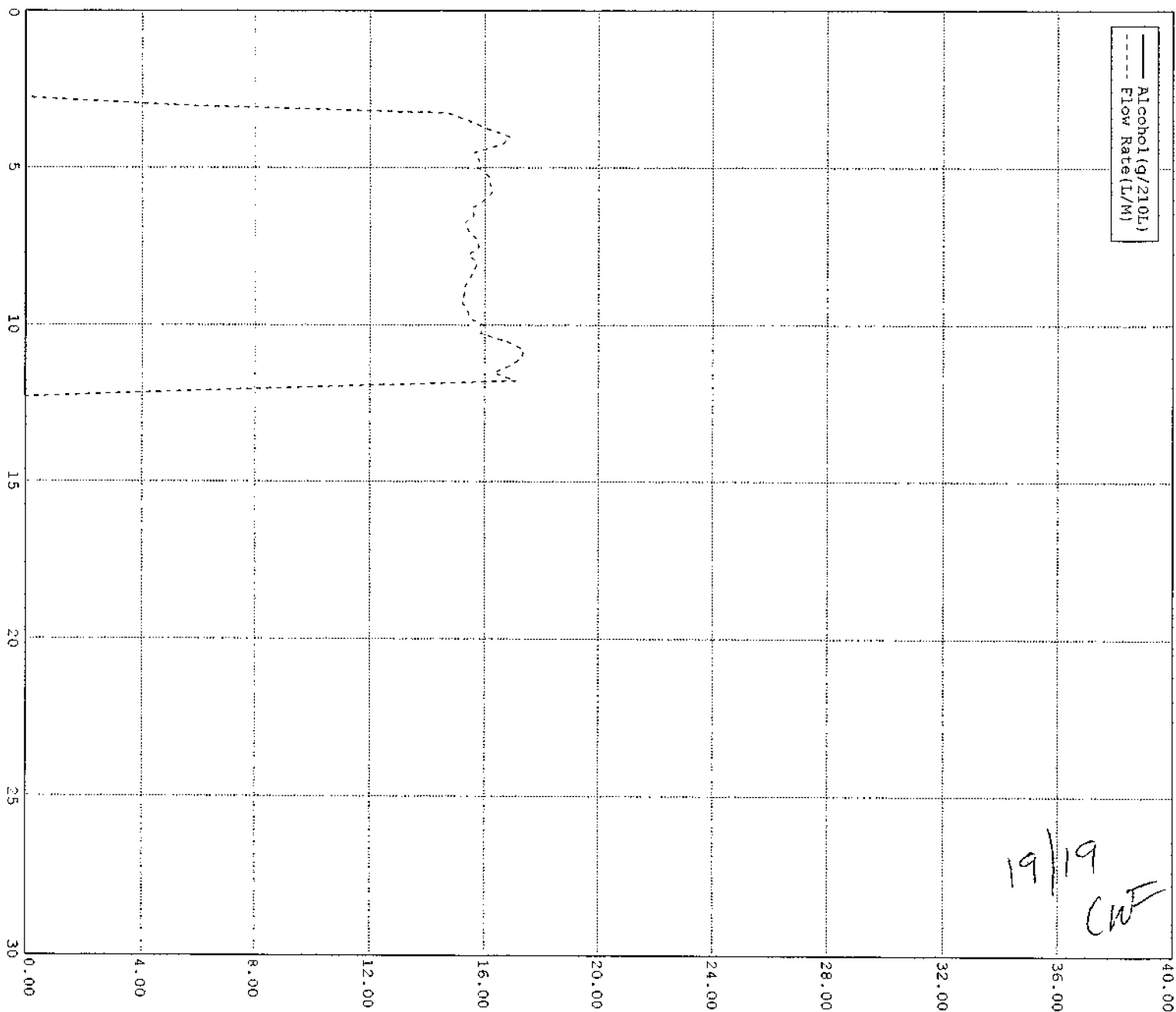
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100665Date: 01/09/2013
Time: 10:54:23SUBJECT 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 29.80: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	11:06
BLANK TEST	0.000	11:06
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.078	11:06
BLANK TEST	0.000	11:07
SUBJECT SAMPLE	0.000	11:08
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.079	11:09
BLANK TEST	0.000	11:10



Final page for report

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11/19/2013