

## Alaska Scientific Crime Detection Laboratory

## DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100366 Analyst CRF Start Date 4/27/12Diagnostic 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 1600 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 0761100A3 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N SD1176 Date Calibrated 8/17/11vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/131. Simulator S/N DR4176 Date Calibrated 2/21/12

## 5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/131. Simulator S/N SD1199 Date Calibrated 1/11/12ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/121. Simulator S/N DR6267 Date Calibrated 1/10/12iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/131. Simulator S/N SD1202 Date Calibrated 8/17/11d. 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 4/30/12

## DIAGNOSTIC RECORD

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100366  
-----

Date: 04/27/2012  
Time: 10:56:21

## VERSIONS

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

## TEMPERATURES

Sample Chamber = 48.8°C	PASSED
Breath Tube = 47.8°C	PASSED

## PUMP INFO

Flow Rate = 4.433 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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CNE

## Technician Screen

-----  
DATAMASTER dmt: 100366  
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Date: 04/27/2012

Time: 11:30 AM

## Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.5°C

Current Barometer 29.6 in

Volume (Ltr) 1.46

## Settings

Lamp: 2.30 V

Bias: 81 V

Cooler: 2.01 V

Chopper: 559 Hz

## Voltages (V)

Flow: 1.05 V

Detector: 0.018 V

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CNF

## CALIBRATION FACTORS

-----  
Alaska Department of Public Safety  
DATAMASTER dmt: 100366  
-----

Date: 03/22/2011  
Time: 11:48:02

OPERATOR NAME:  
COLLEEN S OBRYANT  
CERTIFICATE #: 6237

LOT #: GUTH100  
BOTTLE #: 9380  
EXPIRATION: 12/17/2011

Ca	=	0.1000		
CAL	=	0.985254	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0054	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.1000	0.0500	<= Xq < 0.2000
a21	=	1.200050	1.050	<= a21 < 1.300
a31	=	0.503220	0.300	<= a31 < 0.800

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CNE



# SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100366

Date: 04/27/2012  
 Time: 13:27:01

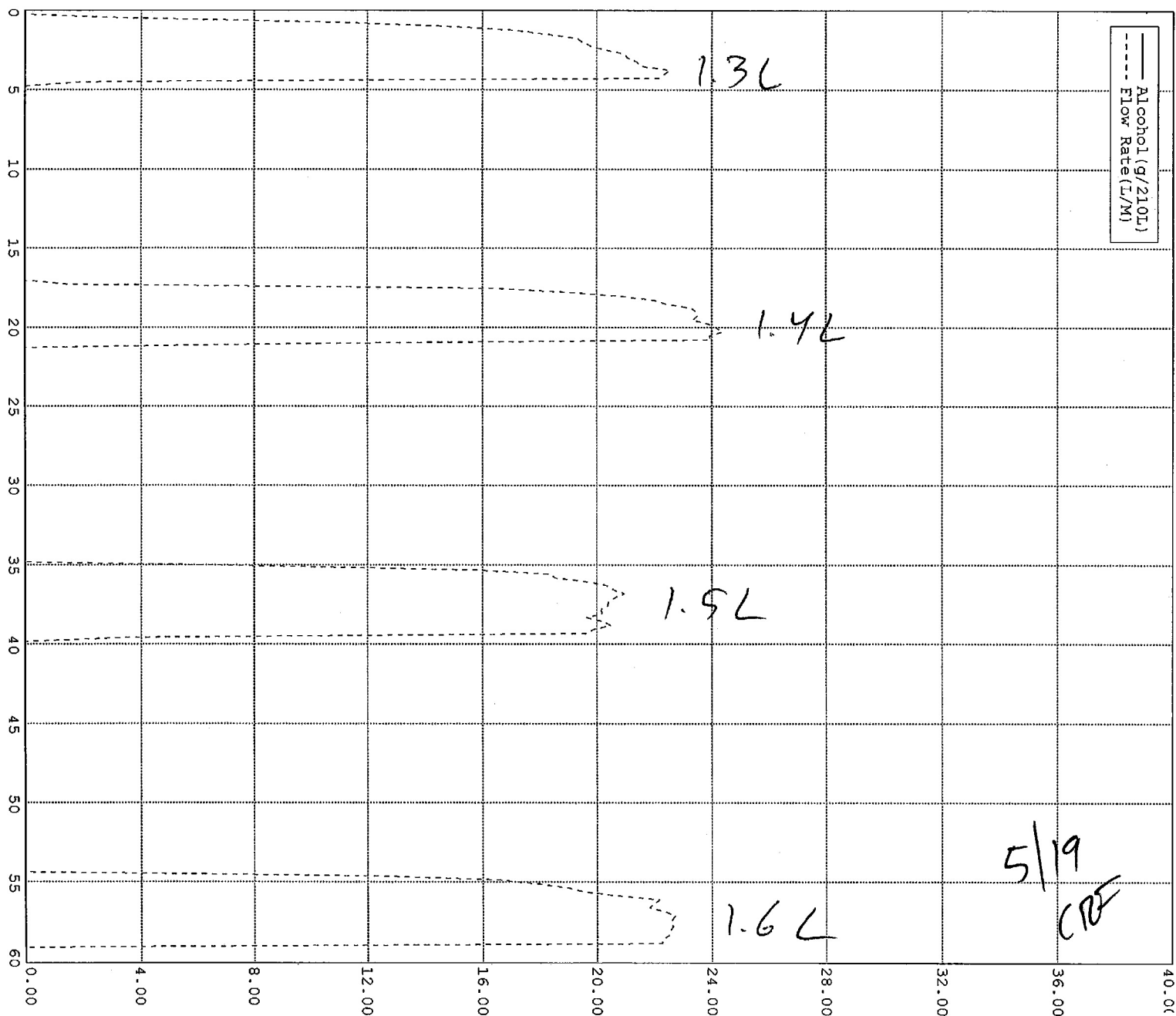
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 MINIMUM VOLUME  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.56: 0.079  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

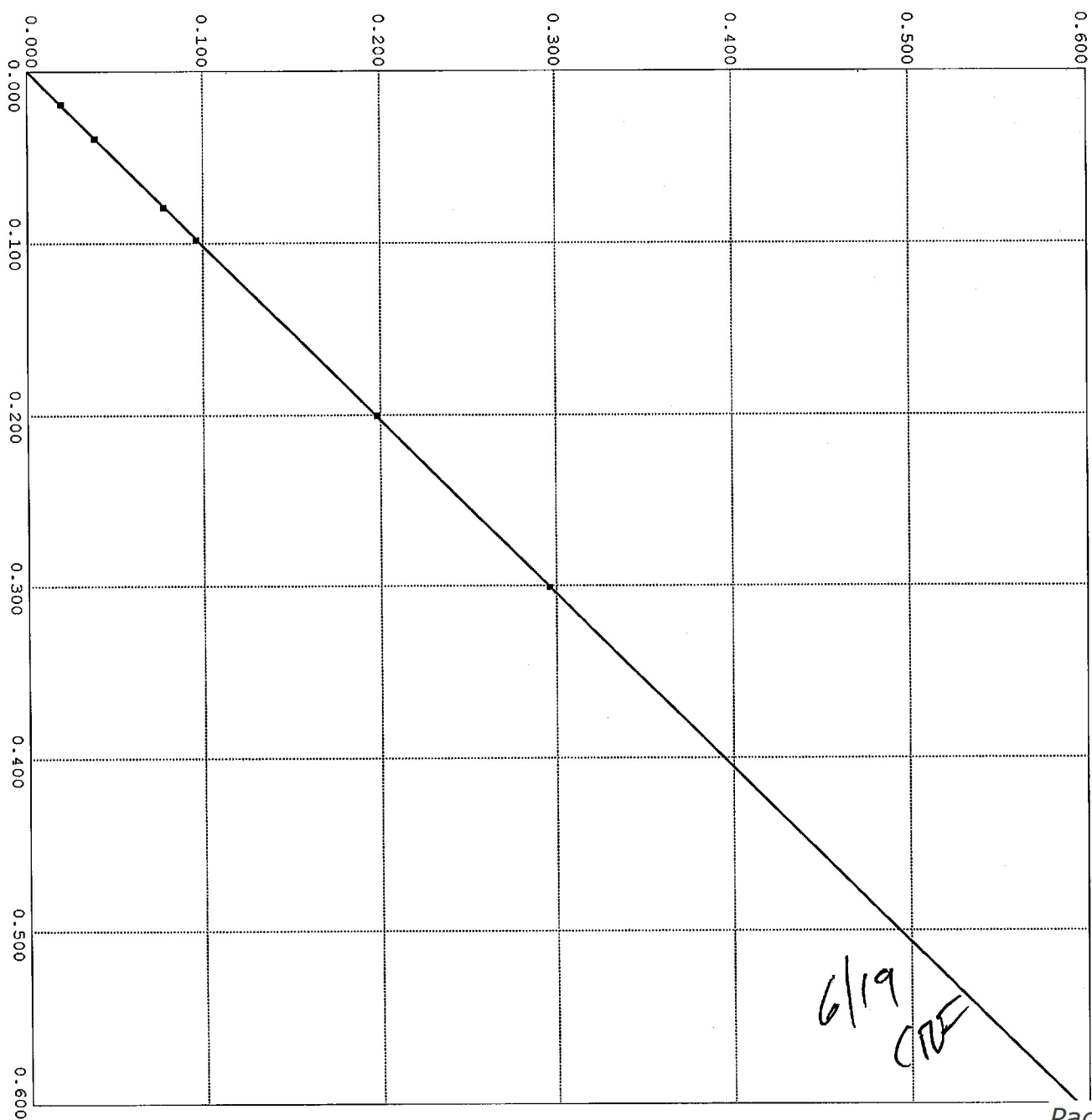
DIAGNOSTIC CHECK	PASSED	13:39
BLANK TEST	0.000	13:39
INTERNAL STANDARD	VERIFIED	13:40
EXTERNAL STANDARD	0.076	13:40
BLANK TEST	0.000	13:41
SUBJECT SAMPLE	0.000	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.077	13:43
BLANK TEST	0.000	13:44



## LINEARITY CHECK

Alaska Department of Public Safety  
DATAMASTER dmt: 100366Date: 04/27/2012  
Time: 14:01:30SUPERVISOR NAME:  
CHARLES FOSTER  
OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0199	0.0001
0.039	0.0392	0.0002
0.079	0.0779	0.0003
0.098	0.0967	0.0002
0.200	0.1988	0.0002
0.300	0.2969	0.0007

SLOPE = 0.988203  
 $R^2$  = 0.999968

## LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety  
DATAMASTER dmt: 100366

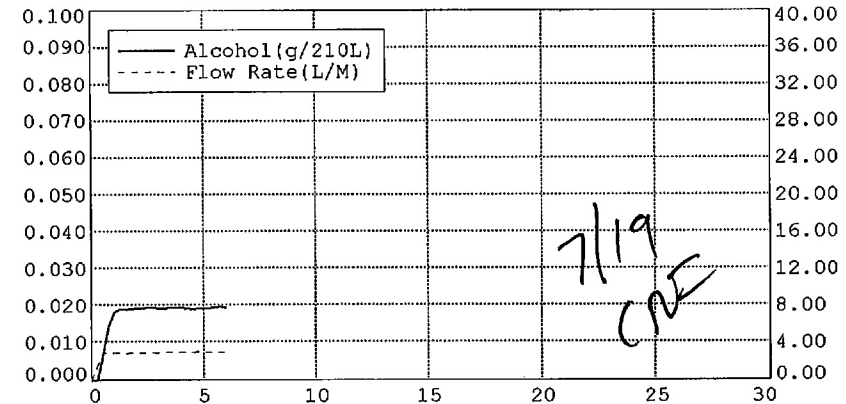
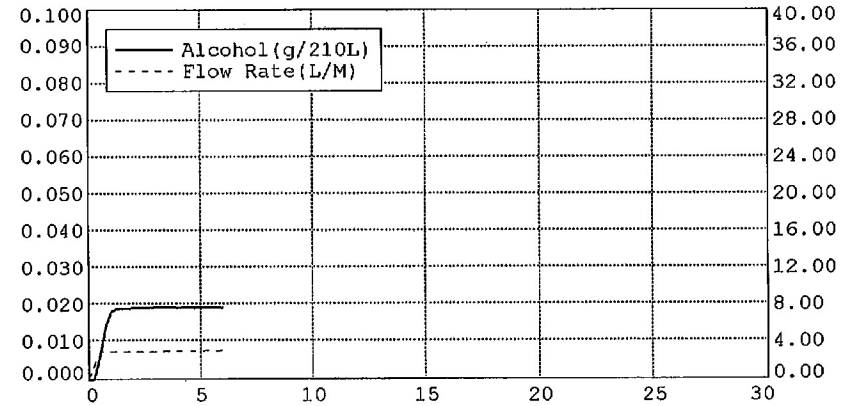
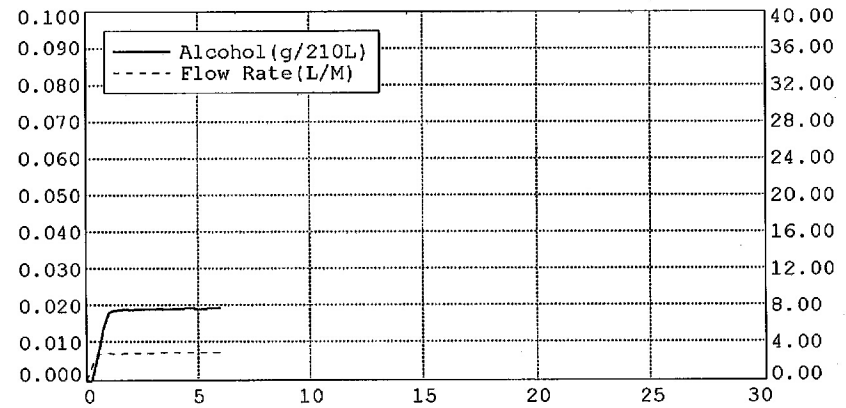
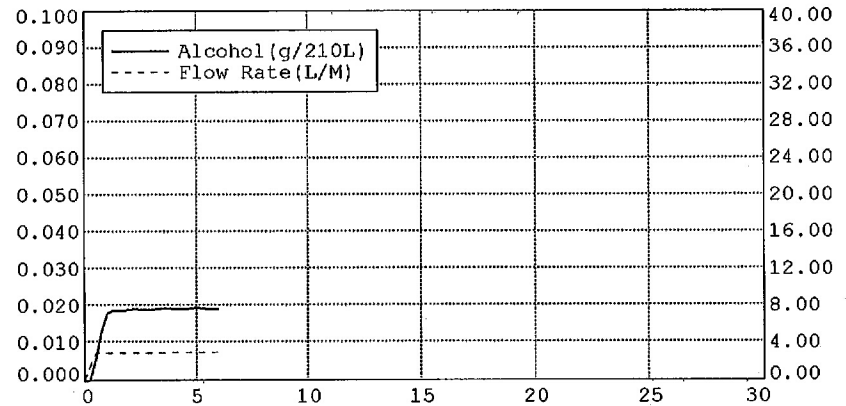
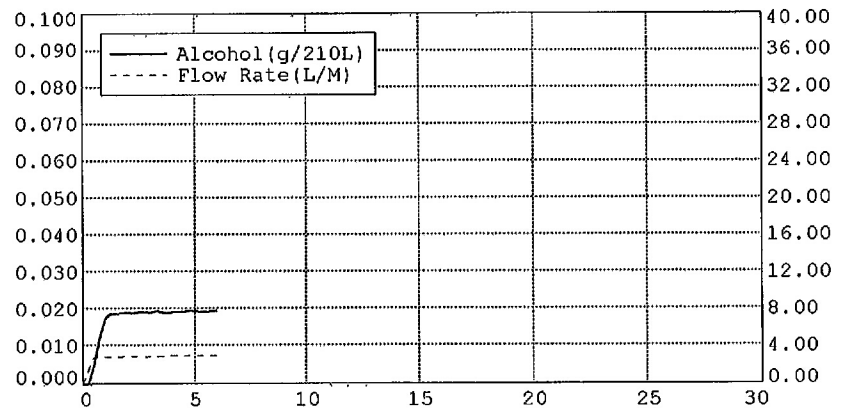
Date: 04/27/2012  
Time: 14:01:31

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
TARGET AT 29.56: 0.019  
LOT #: 07611020A5  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:48
INTERNAL STANDARD	VERIFIED	14:48
EXTERNAL STANDARD	0.020	14:48
BLANK TEST	0.000	14:49
EXTERNAL STANDARD	0.019	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.019	14:50
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.019	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.020	14:52
BLANK TEST	0.000	14:53

Average = 0.0199  
Std Dev = 0.0001



## LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety  
DATAMASTER dmt: 100366

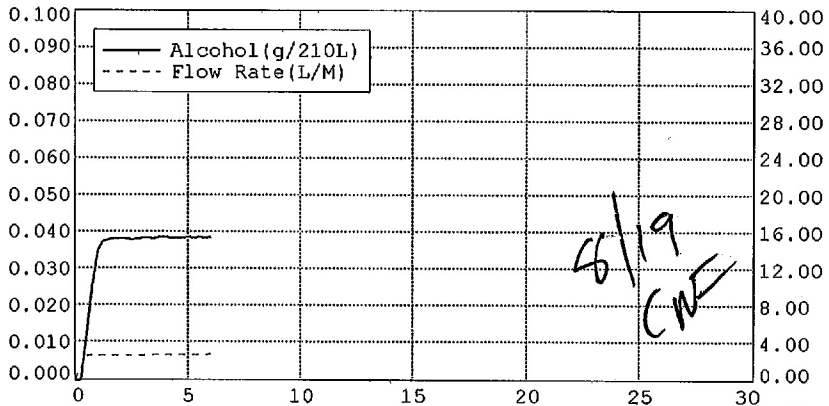
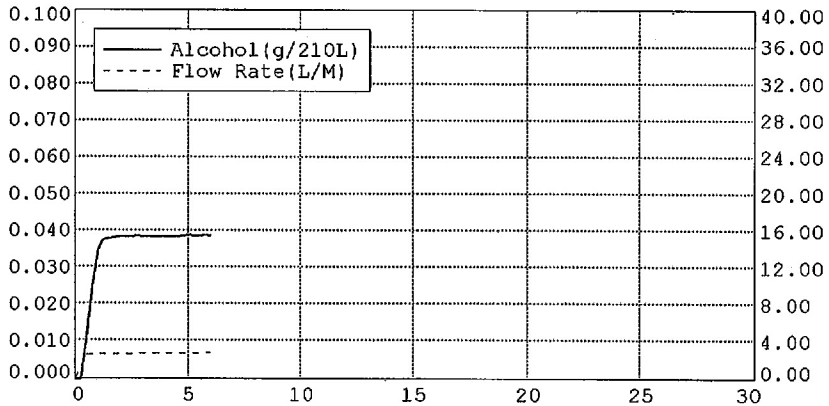
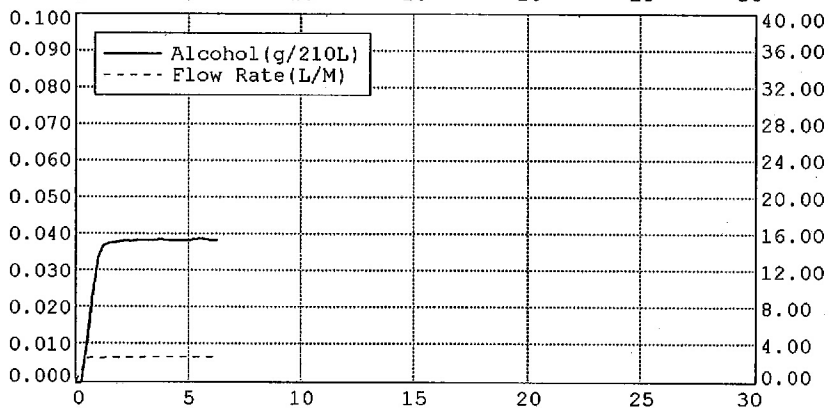
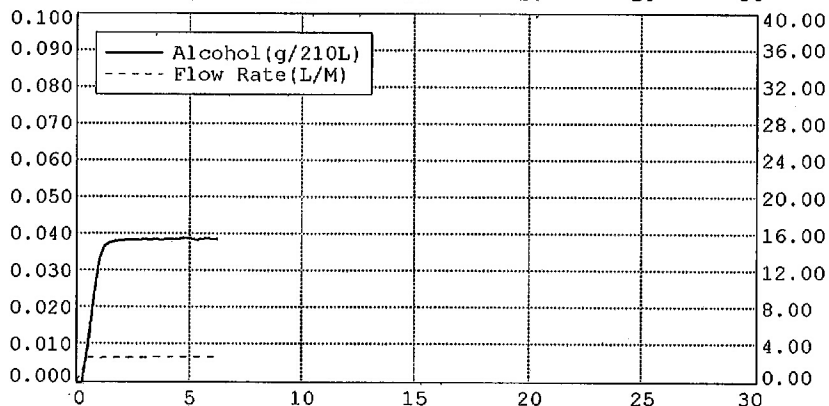
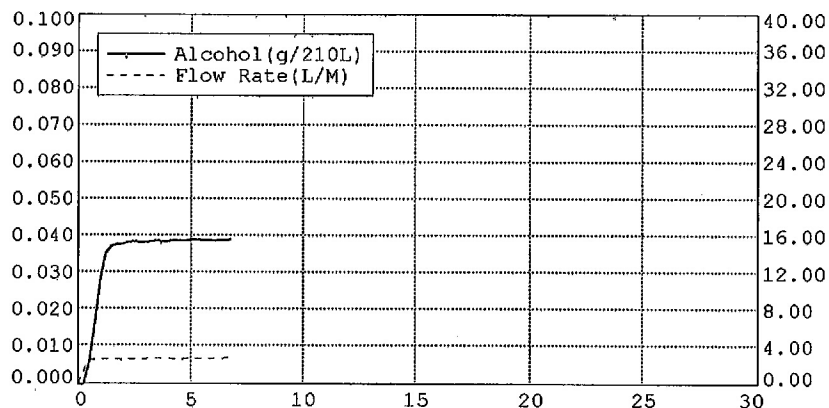
Date: 04/27/2012  
Time: 14:57:14

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040  
TARGET AT 29.56: 0.039  
LOT #: 07611040A4  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:00
INTERNAL STANDARD	VERIFIED	15:00
EXTERNAL STANDARD	0.039	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.039	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.038	15:02
BLANK TEST	0.000	15:03
EXTERNAL STANDARD	0.039	15:03
BLANK TEST	0.000	15:04
EXTERNAL STANDARD	0.039	15:04
BLANK TEST	0.000	15:05

Average = 0.0392  
Std Dev = 0.0002



## LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety  
DATAMASTER dmt: 100366

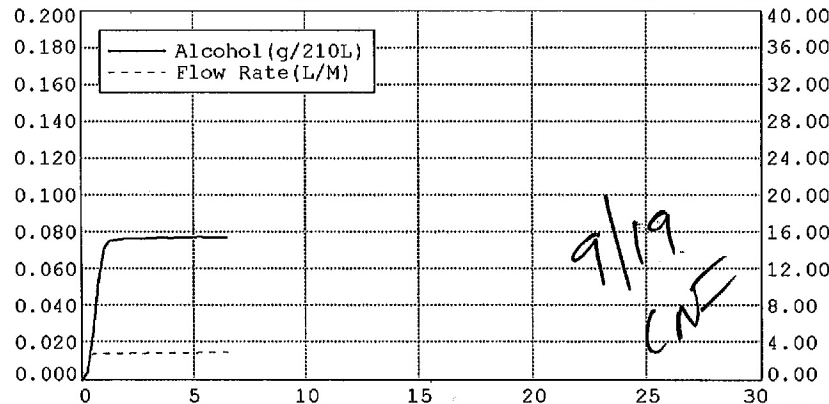
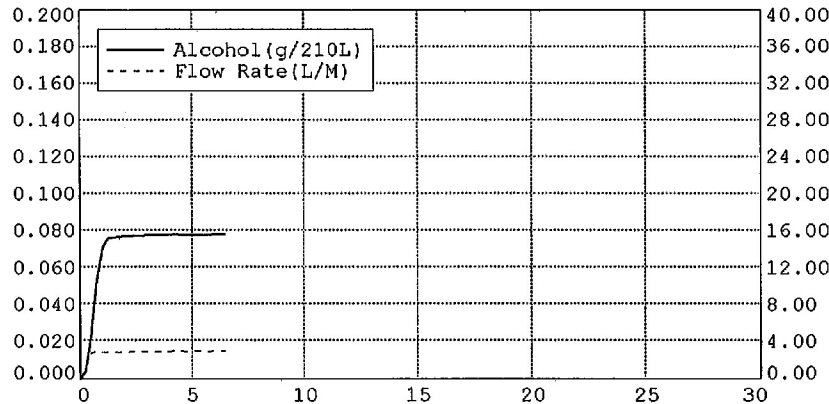
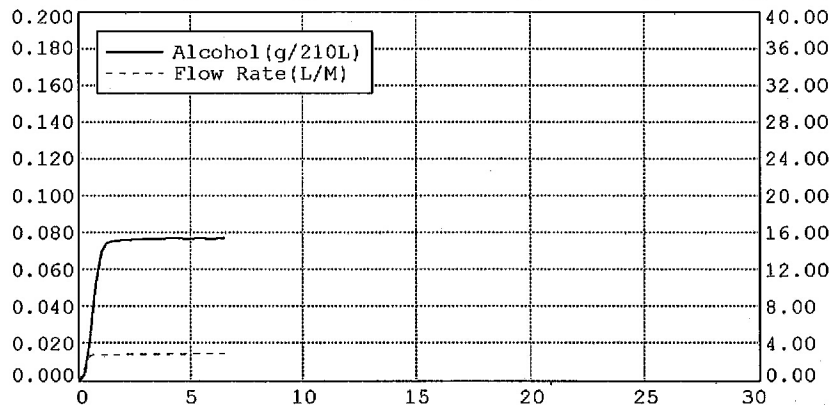
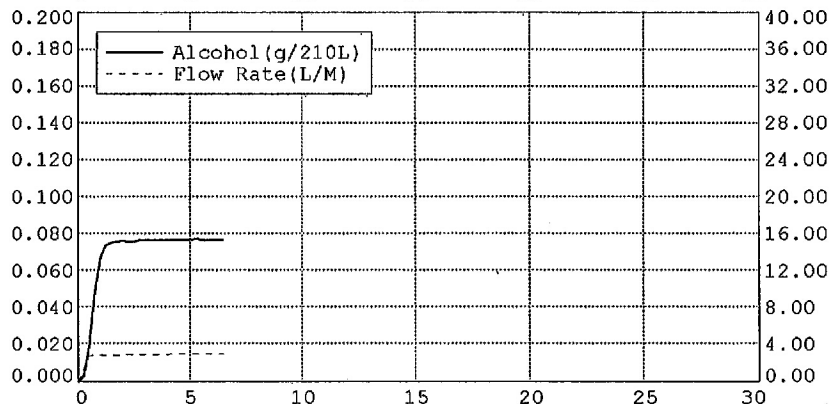
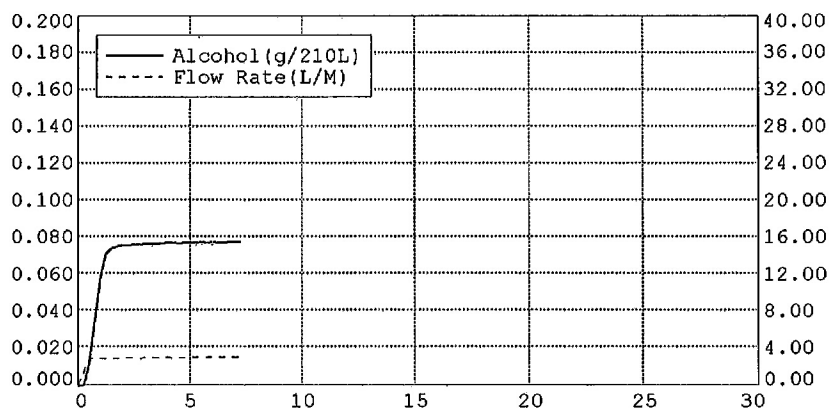
Date: 04/27/2012  
Time: 15:07:11

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.55: 0.079  
LOT #: 02012080A1  
EXPIRATION: 03/01/2014

BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.078	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.077	15:10
BLANK TEST	0.000	15:11
EXTERNAL STANDARD	0.077	15:11
BLANK TEST	0.000	15:12
EXTERNAL STANDARD	0.078	15:12
BLANK TEST	0.000	15:13
EXTERNAL STANDARD	0.077	15:14
BLANK TEST	0.000	15:15

Average = 0.0779  
Std Dev = 0.0003





## LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety  
DATAMASTER dmt: 100366

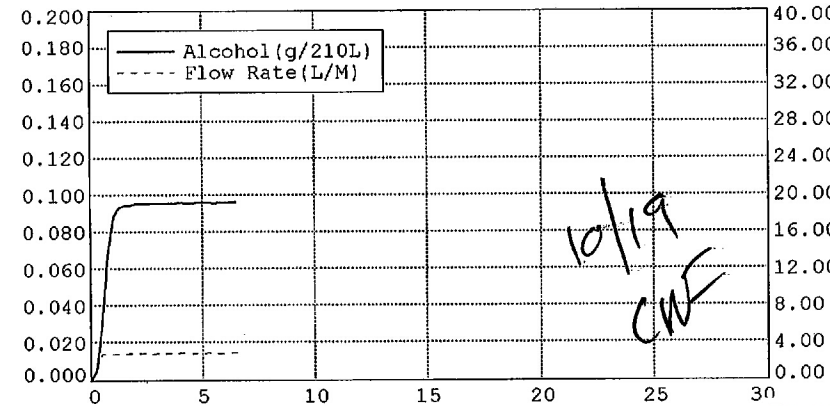
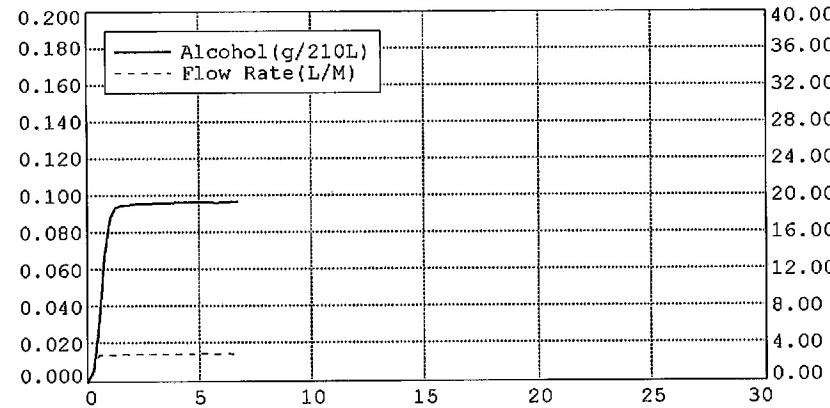
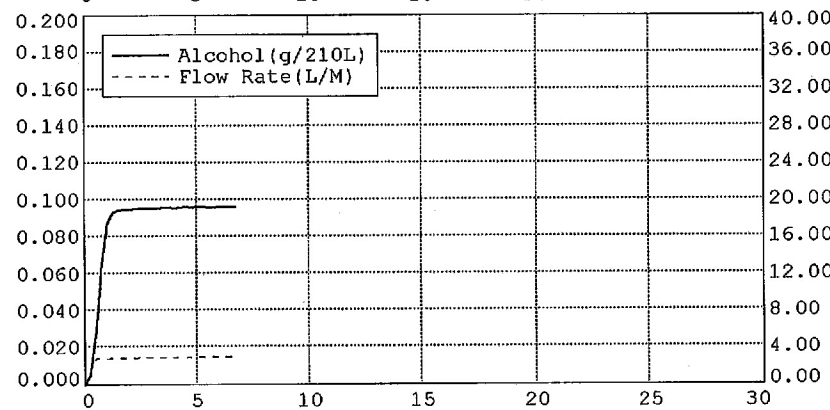
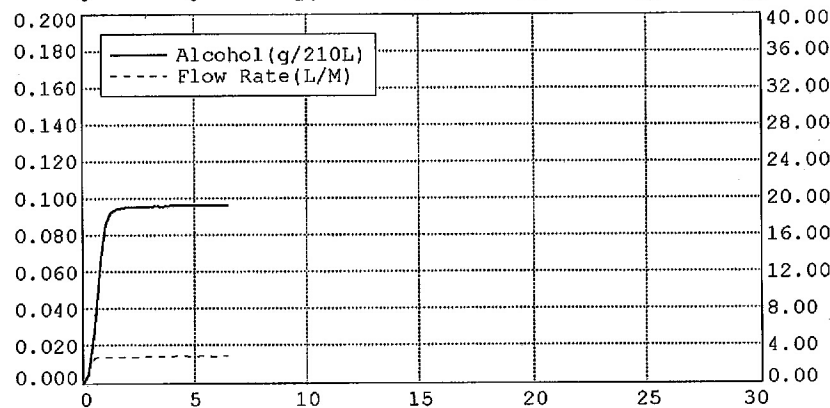
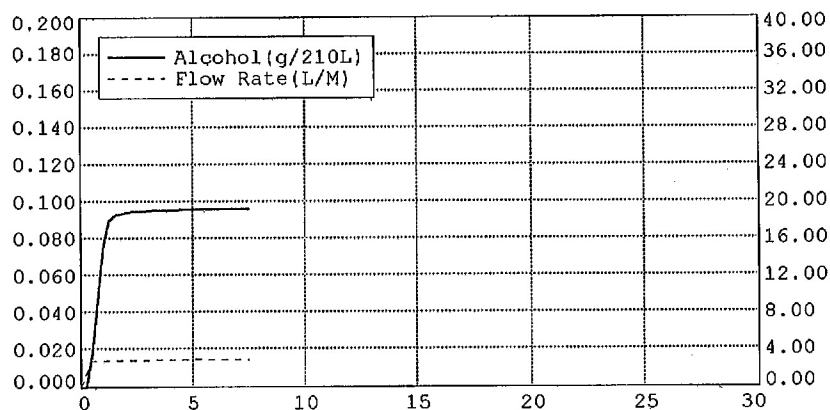
Date: 04/27/2012  
Time: 15:19:01

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100  
TARGET AT 29.55: 0.098  
LOT #: 07611100A3  
EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:20
INTERNAL STANDARD	VERIFIED	15:20
EXTERNAL STANDARD	0.096	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.096	15:21
BLANK TEST	0.000	15:22
EXTERNAL STANDARD	0.096	15:22
BLANK TEST	0.000	15:23
EXTERNAL STANDARD	0.096	15:23
BLANK TEST	0.000	15:24
EXTERNAL STANDARD	0.096	15:25
BLANK TEST	0.000	15:26

Average = 0.0967  
Std Dev = 0.0002



## LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety  
DATAMASTER dmt: 100366

Date: 04/27/2012  
Time: 15:30:23

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200

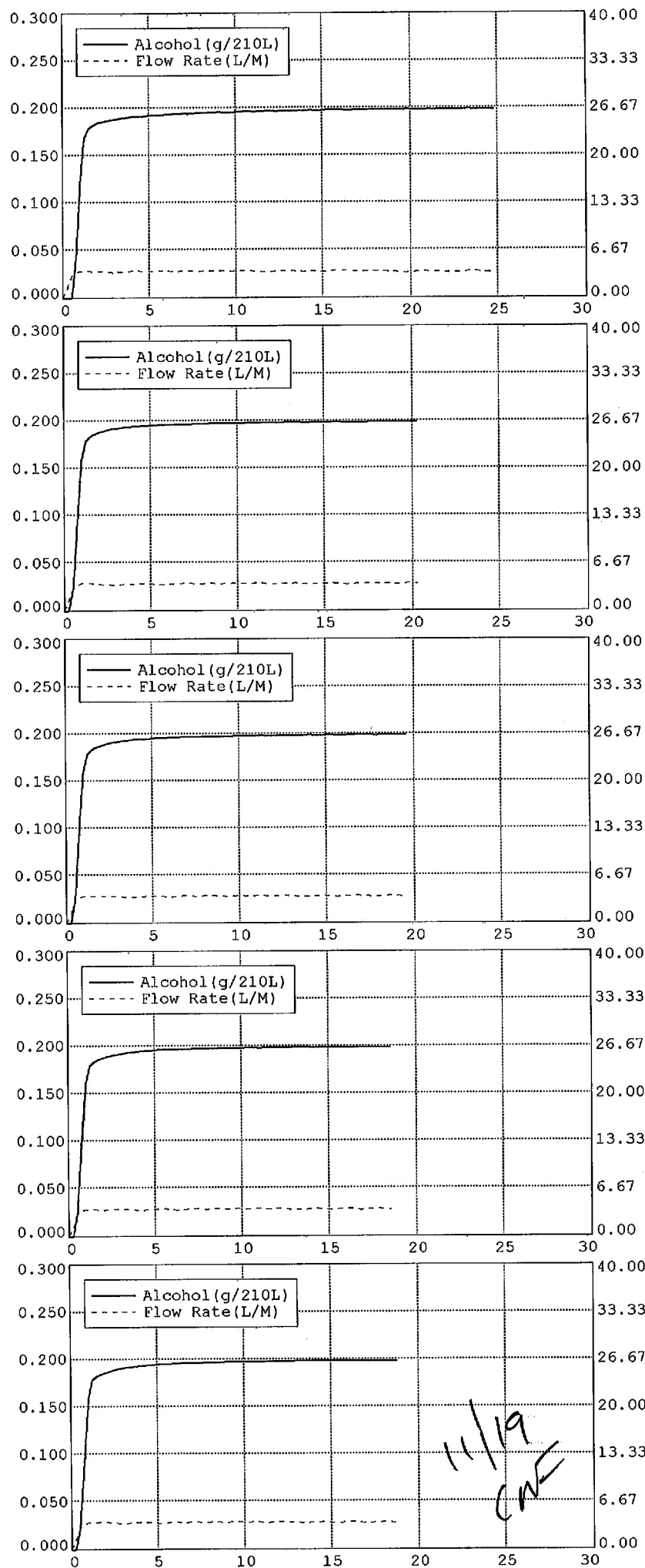
LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	15:31
INTERNAL STANDARD	VERIFIED	15:31
EXTERNAL STANDARD	0.198	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.198	15:33
BLANK TEST	0.000	15:34
EXTERNAL STANDARD	0.199	15:34
BLANK TEST	0.000	15:35
EXTERNAL STANDARD	0.199	15:36
BLANK TEST	0.000	15:37
EXTERNAL STANDARD	0.198	15:37
BLANK TEST	0.000	15:38

Average = 0.1988

Std Dev = 0.0002



## LINEARITY CHECK: Control Test 6

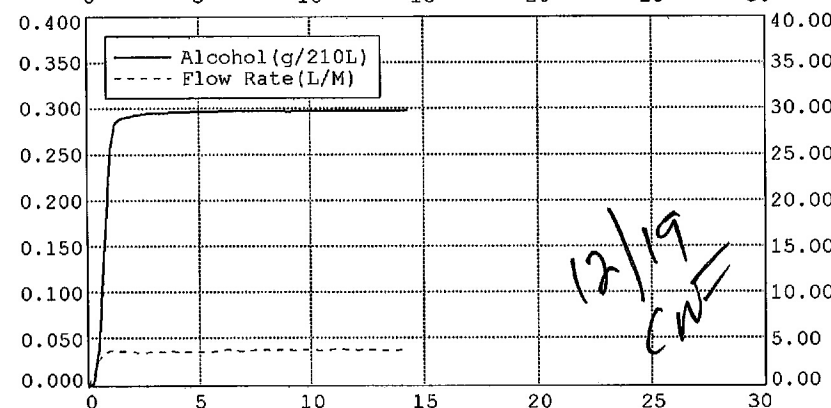
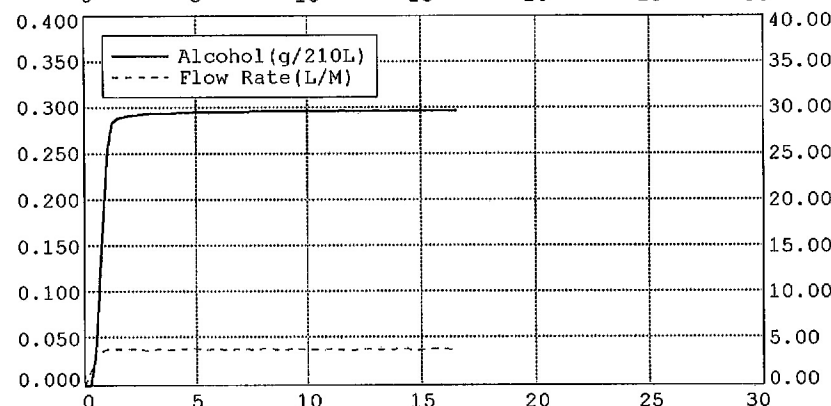
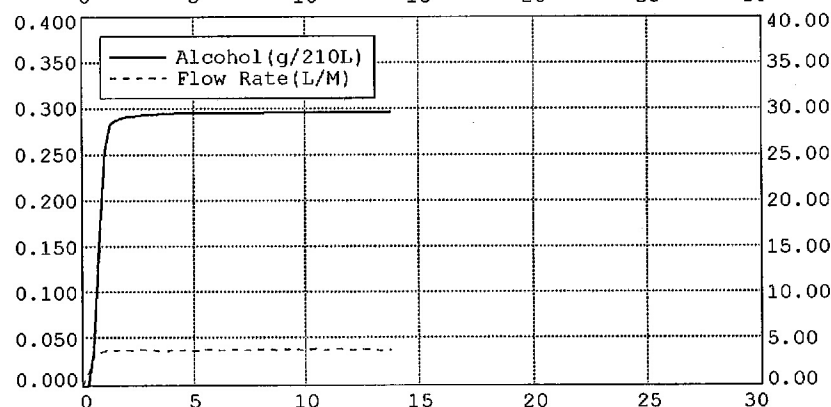
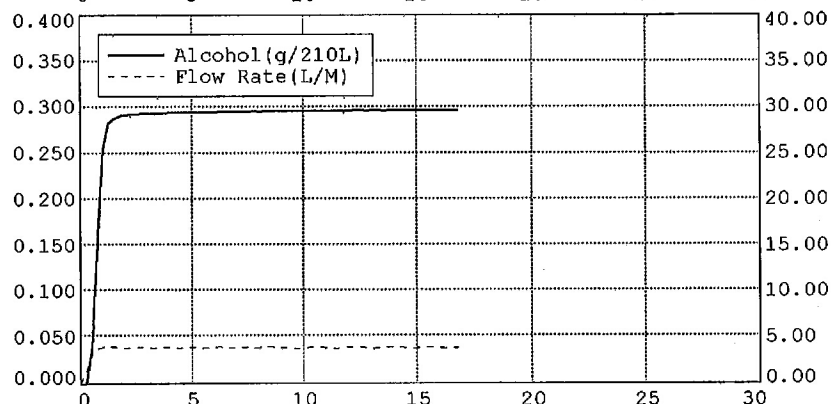
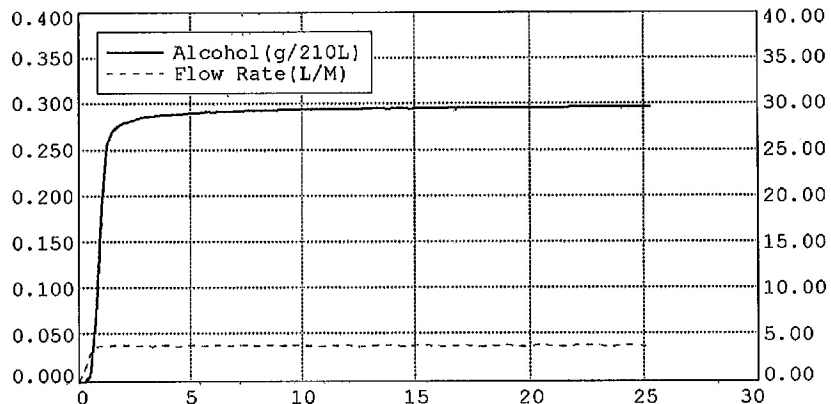
Alaska Department of Public Safety  
DATAMASTER dmt: 100366

Date: 04/27/2012  
Time: 15:41:25

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.300  
LOT #: 11110  
EXPIRATION: 07/13/2013

BLANK TEST	0.000	15:42
INTERNAL STANDARD	VERIFIED	15:42
EXTERNAL STANDARD	0.296	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.296	15:44
BLANK TEST	0.000	15:45
EXTERNAL STANDARD	0.296	15:45
BLANK TEST	0.000	15:46
EXTERNAL STANDARD	0.296	15:47
BLANK TEST	0.000	15:48
EXTERNAL STANDARD	0.298	15:48
BLANK TEST	0.000	15:49

Average = 0.2969  
Std Dev = 0.0007





SUBJECT TEST

Alaska Department of Public Safety  
 DATA MASTER dmt: 100366

Date: 04/30/2012  
 Time: 08:25:33

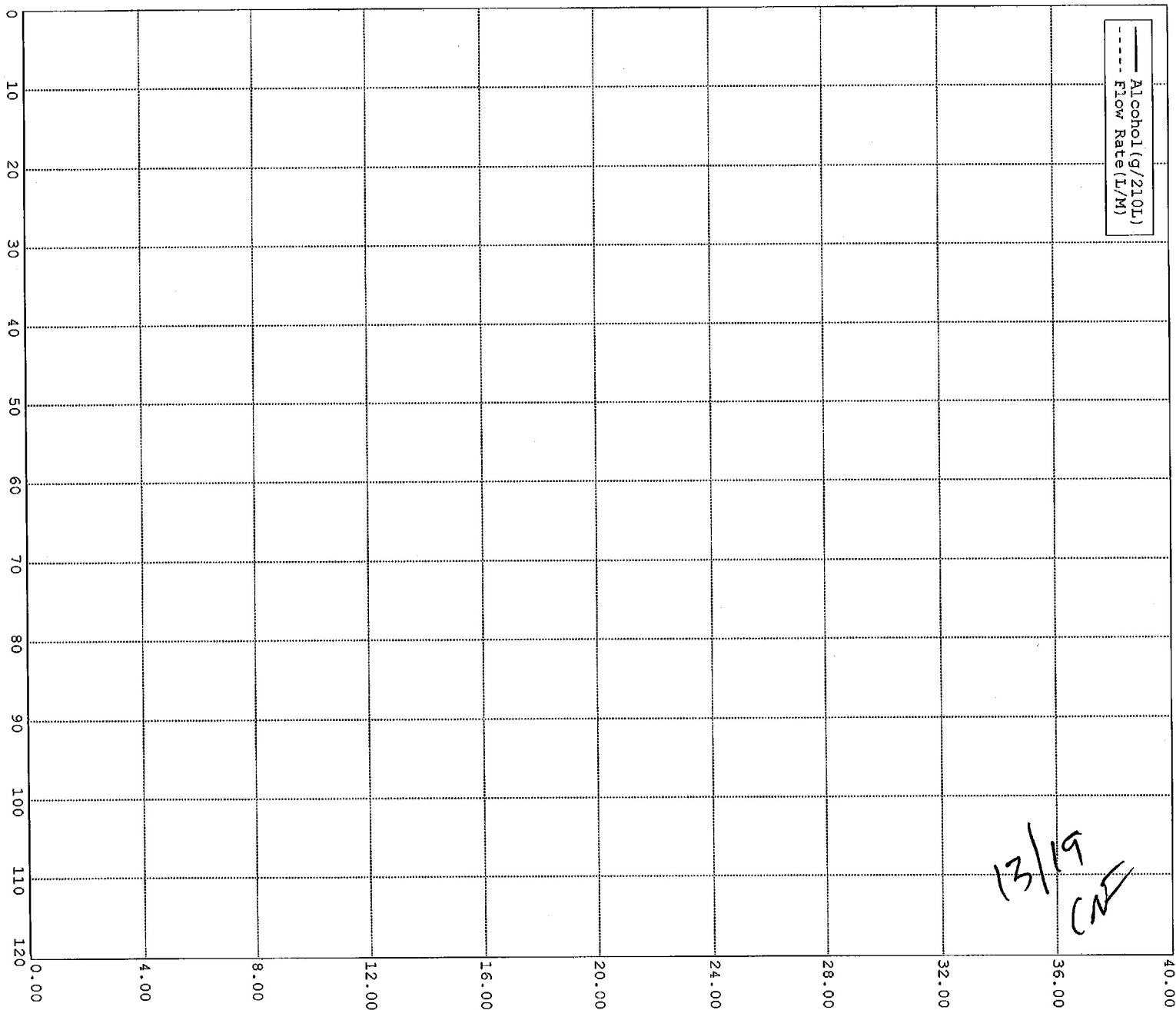
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

OPERATOR NAME:  
 INCOMPLETE XXXX  
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.080  
 TARGET AT 29.50: 0.078  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	08:26
BLANK TEST	0.000	08:26
INTERNAL STANDARD	VERIFIED	08:26
EXTERNAL STANDARD	0.076	08:27
BLANK TEST	0.000	08:27
SUBJECT SAMPLE	INCOMPLETE	08:30



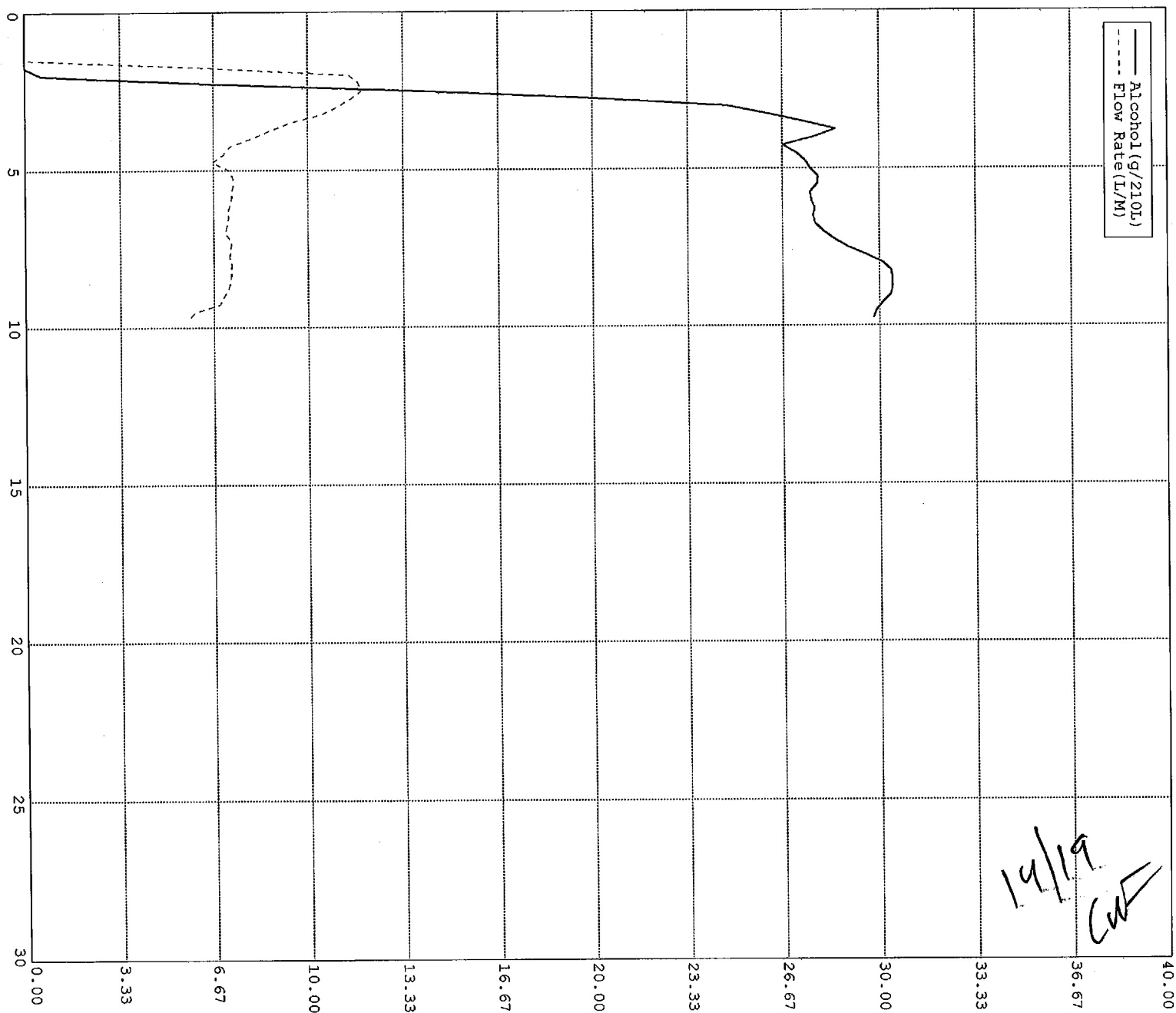
## SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100366Date: 04/30/2012  
Time: 10:02:52SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
INVALID MOUTH ETOH  
OPERATOR'S #: XXXXDEPT/AGENCY:  
XXXX  
CASE/REPORT: XXXX  
TEST TYPE: TEST

## EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080  
TARGET AT 29.50: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

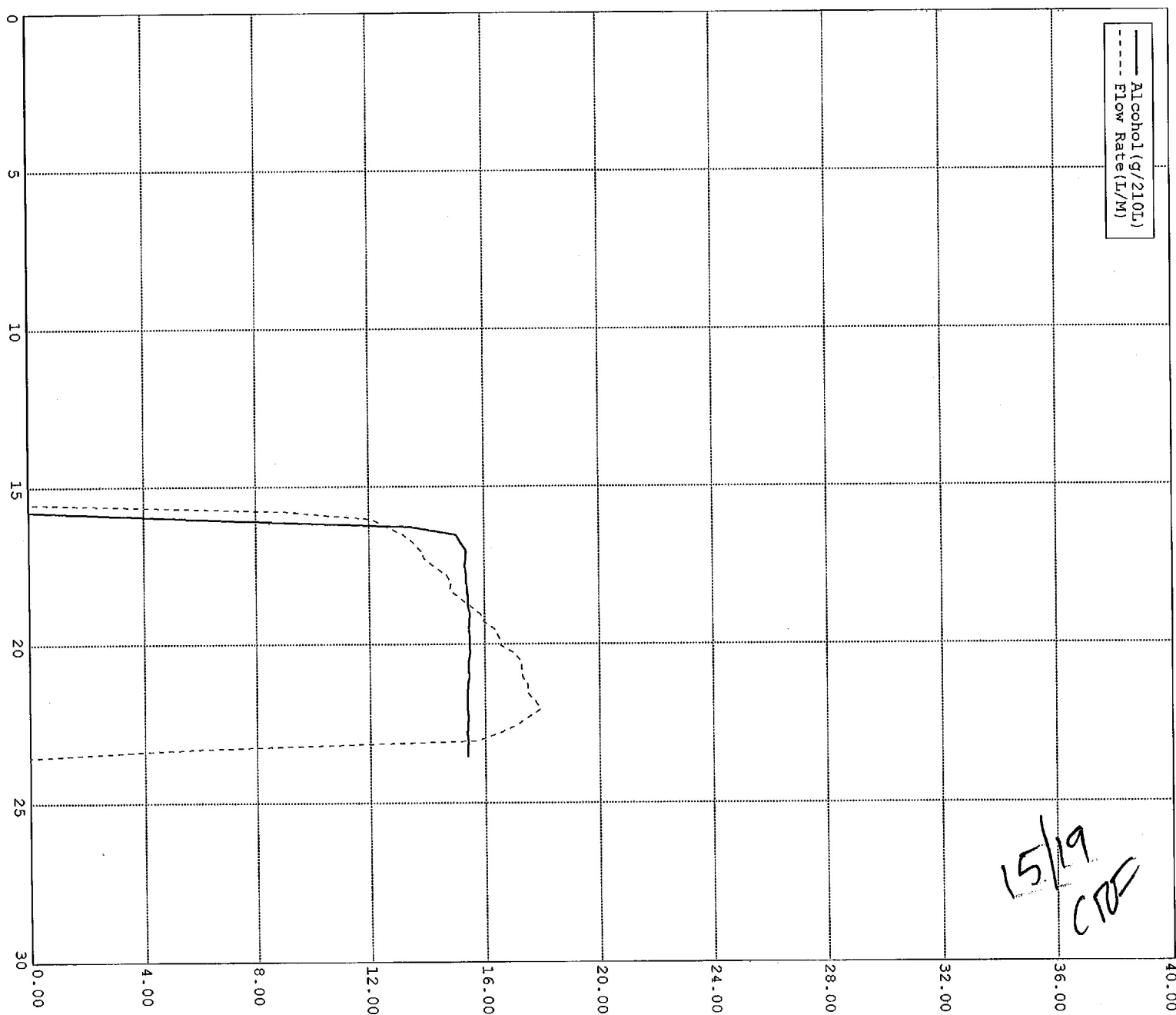
DIAGNOSTIC CHECK	PASSED	10:04
BLANK TEST	0.000	10:04
INTERNAL STANDARD	VERIFIED	10:04
EXTERNAL STANDARD	0.076	10:04
BLANK TEST	0.000	10:05
SUBJECT SAMPLE	INVALID	10:06



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100366Date: 04/30/2012  
Time: 10:57:05SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXXOPERATOR NAME:  
INTERFERENCE ETOH AND ACETONE  
OPERATOR'S #: XXXXDEPT/AGENCY:  
XXXX  
CASE/REPORT: XXXX  
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.50: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:58
BLANK TEST	0.000	10:58
INTERNAL STANDARD	VERIFIED	10:58
Xq = 0.101 (0.70%)		
EXTERNAL STANDARD	0.076	10:58
X[1] = 0.0768 (-0.0007) (0.0023)		
BLANK TEST	0.000	10:59
SUBJECT SAMPLE	INTERFERENCE	11:00
X[1] = 0.0772 (-0.0114) (0.0004)		



## SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100366

Date: 04/30/2012  
Time: 11:09:38

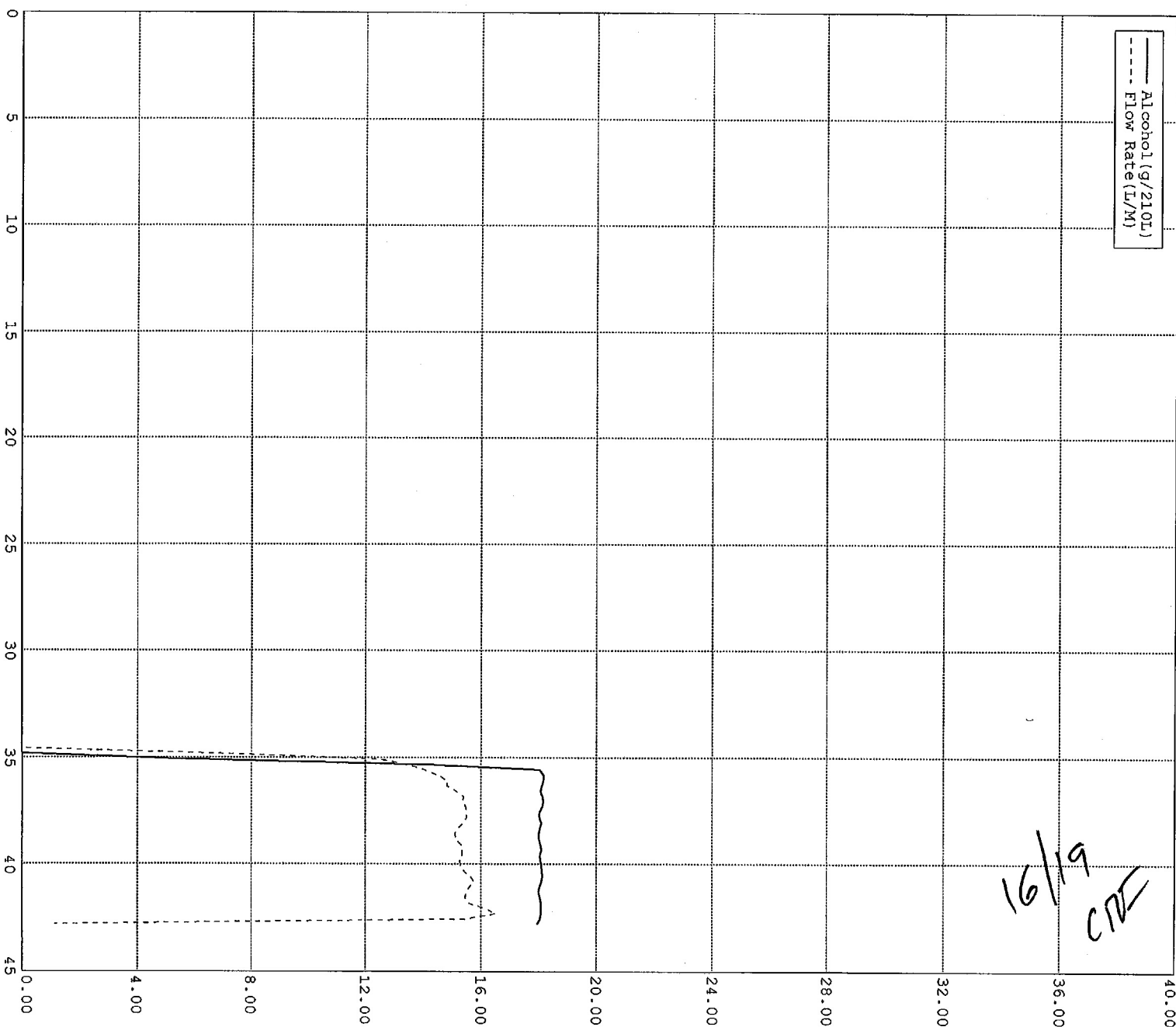
SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

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 29.50: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:11
BLANK TEST	0.000	11:11
INTERNAL STANDARD	VERIFIED	11:11
Xq = 0.100 (0.09%)		
EXTERNAL STANDARD	0.076	11:12
X[1] = 0.0761 (-0.0015) (0.0022)		
BLANK TEST	0.000	11:13
SUBJECT SAMPLE	INTERFERENCE	11:13
X[1] = 0.0901 (-0.0221) (0.0020)		



# SUBJECT TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100366

Date: 04/30/2012  
 Time: 11:23:38

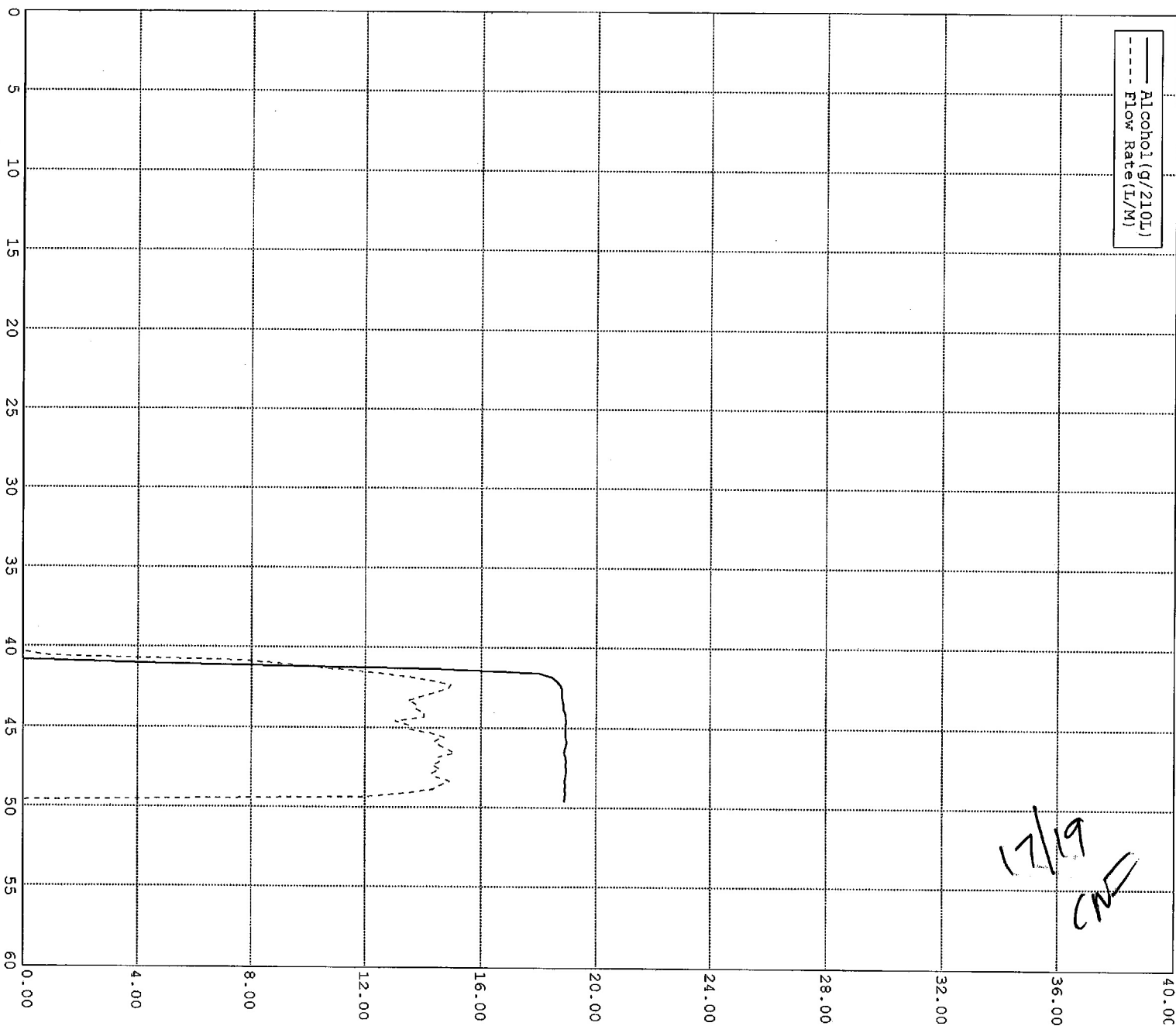
SUBJECT NAME:  
 TEST TEST  
 LICENSE #: XXXX

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 29.50: 0.078  
 LOT #: 07511080A1  
 EXPIRATION: 03/01/2013

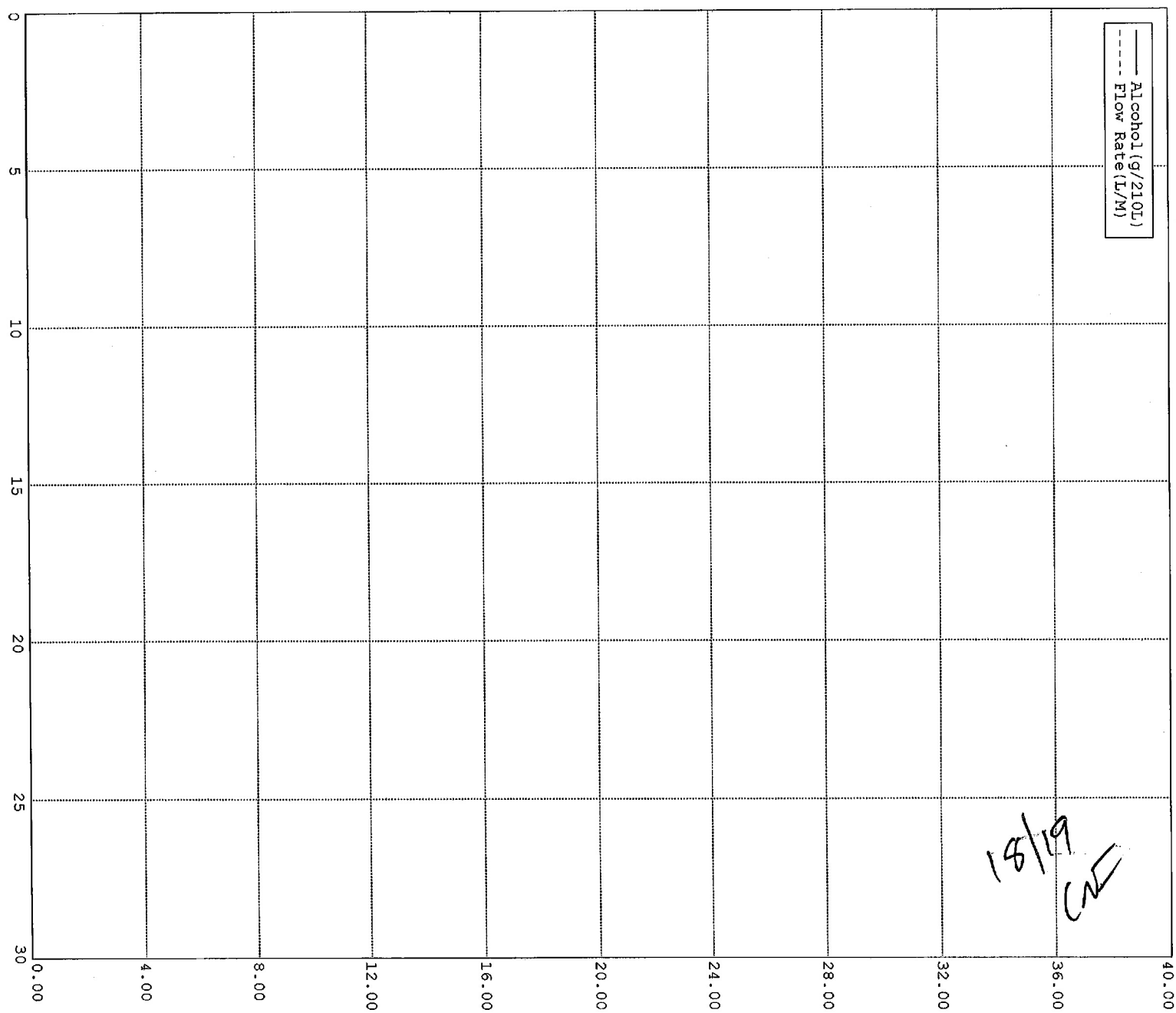
DIAGNOSTIC CHECK	PASSED	11:29
BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
Xq = 0.101 (0.97%)		
EXTERNAL STANDARD	0.076	11:29
X[1] = 0.0766 (-0.0012)	(0.0023)	
BLANK TEST	0.000	11:30
SUBJECT SAMPLE (Vol=2.00L)	0.094	11:31
X[1] = 0.0945 (-0.0006)	(0.0000)	
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.076	11:32
X[1] = 0.0765 (-0.0012)	(0.0021)	
BLANK TEST	0.000	11:33



## SUBJECT TEST

Alaska Department of Public Safety  
DATAMASTER dnt: 100366Date: 04/30/2012  
Time: 11:42:24SUBJECT 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 29.50: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013DIAGNOSTIC CHECK  
BLANK TEST PASSED 11:43  
INTERNAL STANDARD VERIFIED 11:44  
EXTERNAL STANDARD 0.076 11:44  
BLANK TEST 0.000 11:45

RFI DETECTED





SUBJECT TEST

Alaska Department of Public Safety  
DATA MASTER dmt: 100366

Date: 04/30/2012  
Time: 13:40:28

SUBJECT NAME:  
TEST TEST  
LICENSE #: XXXX

OPERATOR NAME:  
CHARLES FOSTER  
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION  
NOMINAL: 0.080  
TARGET AT 29.48: 0.078  
LOT #: 07511080A1  
EXPIRATION: 03/01/2013

	PASSED	
DIAGNOSTIC CHECK	0.000	13:48
BLANK TEST	0.000	13:48
INTERNAL STANDARD	0.077	13:48
EXTERNAL STANDARD	0.000	13:49
BLANK TEST	0.000	13:49
SUBJECT SAMPLE	0.000	13:50
BLANK TEST	0.000	13:51
EXTERNAL STANDARD	0.077	13:51
BLANK TEST	0.000	13:52

