	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form – DMCEF2011R1		
	Issuing Authority – Nita Bolz, Scientific Director		
Approval date: 03/10/11	Effective date: 03/10/11	Archive date: Active	

DataMaster DMT Certification Form

Instrument # 100667Analyst CRFDate 10/13/11

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed
 - i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
 - b. Set RFI
 - c. Adjust barometer reading, if needed
 - d. Adjust volume setting, if needed
 - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1500 mL
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ILMO
 - i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13
 - ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13
 - iii. 0.080g/210L Mnf ILMO Lot 02511080A3 Exp 2/1/13
 - iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07611300A1 Exp 3/1/13
6. Functional Tests (attached)
 - a. Incomplete
 - b. Invalid
 - c. Interference
 - i. Acetone - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12
 1. Simulator Calibration Date 12/15/10 SN DR4176
 - ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/12
 1. Simulator Calibration Date 12/16/10 SN SD1198
 - d. RFI
7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

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DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 10/13/2011
Time: 12:55:39

VERSIONS

DMT: 1.01
PIC: 3.03
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO

Flow Rate = 5.048 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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C/F

Technician Screen

DATAMASTER dmt: 100667

Date: 10/13/2011
Time: 1:08 PM

Temperatures (°C)

Sample Cell: 48.4°C
Breath Tube: 45.5°C

Current Barometer 29.9 in
Volume (Ltr) 1.50

Settings

Lamp: 1.90 V
Bias: 80 V
Cooler: 1.87 V
Chopper: 513 Hz

Voltages (V)

Flow: 1.06 V
Detector: -0.059 V

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CRF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 09/21/2011
Time: 09:08:19

Ca = 0.1510
CAL = 0.991475 0.800 <= CAL < 1.200
b1 = 0.0001 0.0000 <= b1 < 0.0040
b2 = 0.0036 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xq = 0.1075 0.0500 <= Xq < 0.2000
a21 = 1.219071 1.050 <= a21 < 1.300
a31 = 0.470220 0.300 <= a31 < 0.800

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CF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 10/13/2011
 Time: 13:36:08

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

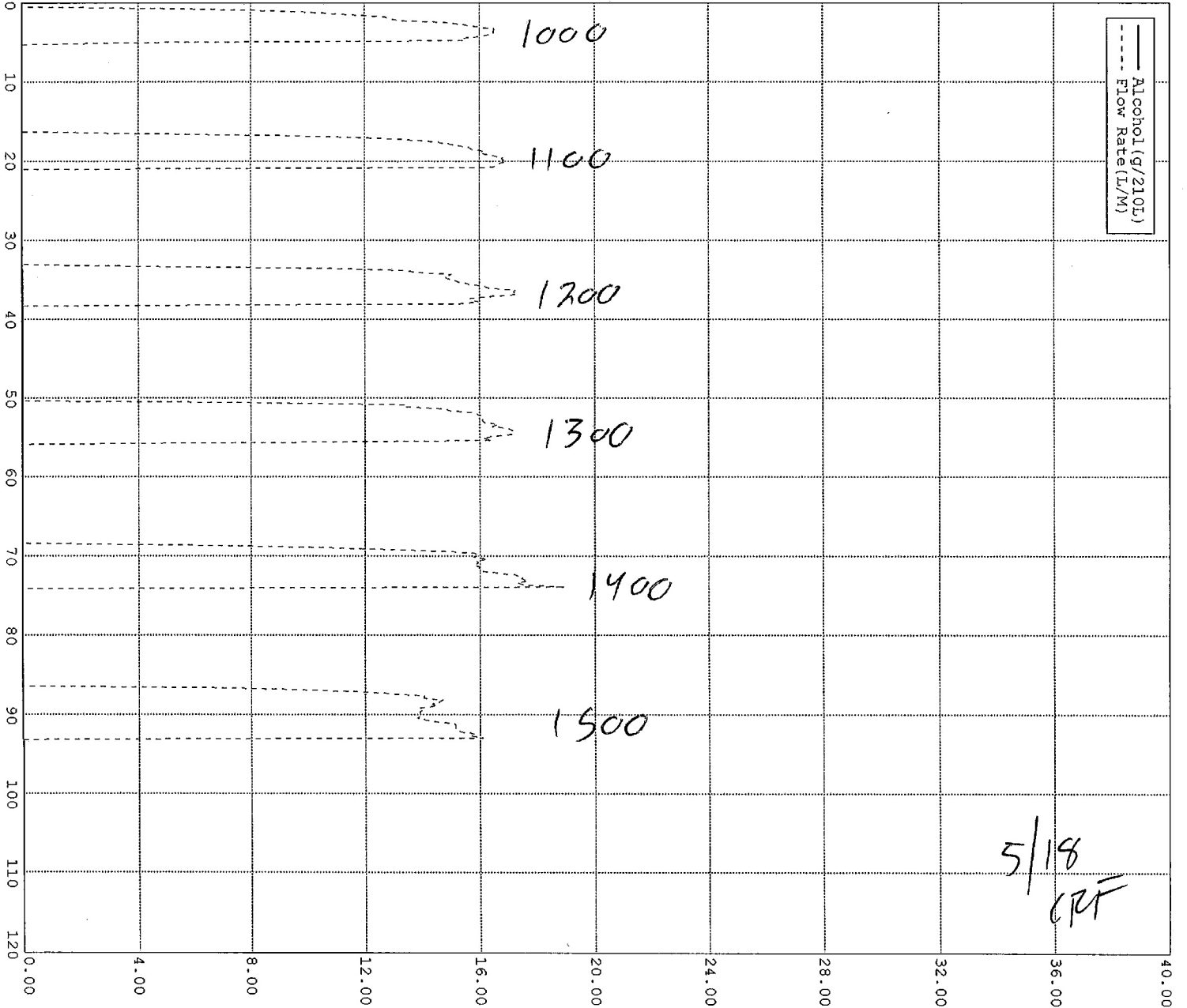
OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

TEST TYPE	PASSED	TIME
DIAGNOSTIC CHECK	0.000	13:37
BLANK TEST	0.000	13:37
INTERNAL STANDARD	0.081	13:37
EXTERNAL STANDARD	0.000	13:38
BLANK TEST	0.000	13:40
SUBJECT SAMPLE	0.000	13:41
BLANK TEST	0.079	13:41
EXTERNAL STANDARD	0.000	13:42
BLANK TEST	0.000	13:42

CRF



LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

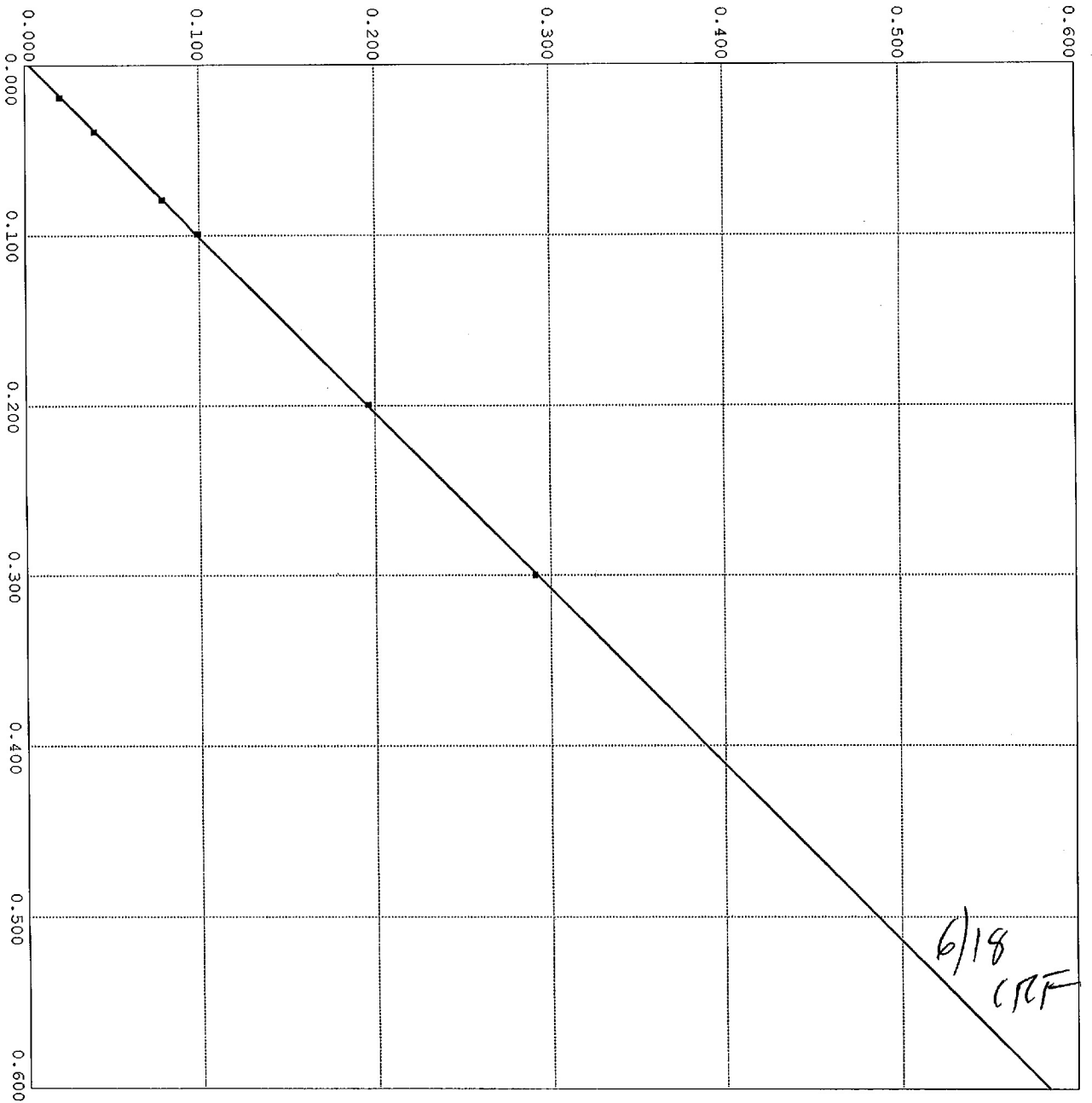
Date: 10/13/2011
 Time: 14:14:31

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0005
0.039	0.0402	0.0004
0.079	0.0792	0.0004
0.099	0.1002	0.0004
0.199	0.1972	0.0004
0.299	0.2916	0.0005

SLOPE = 0.969778
 R^2 = 0.999942

CRF



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

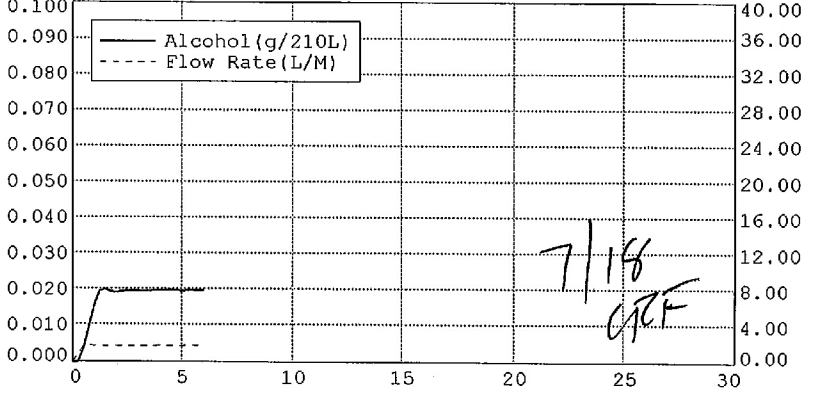
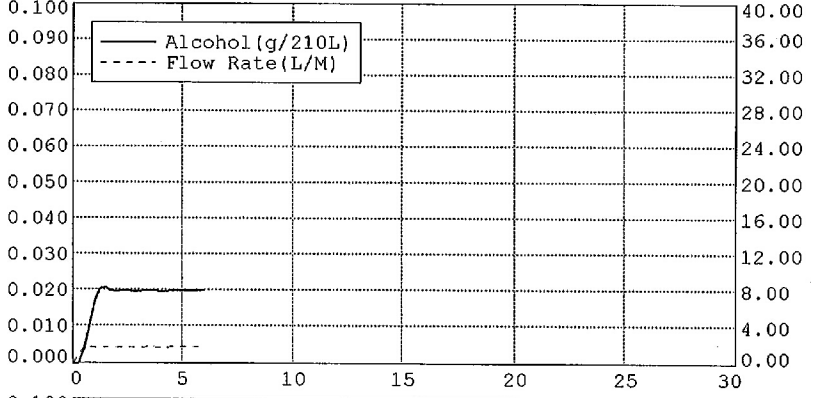
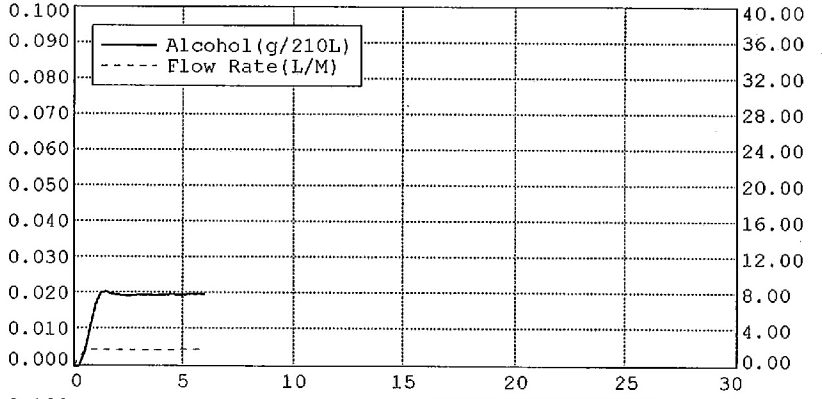
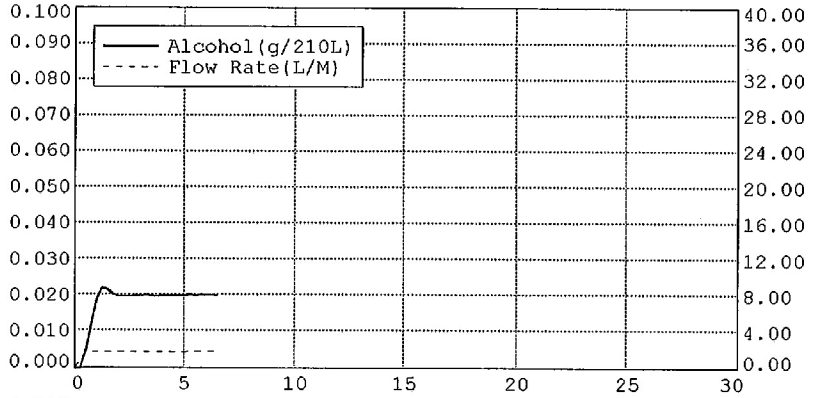
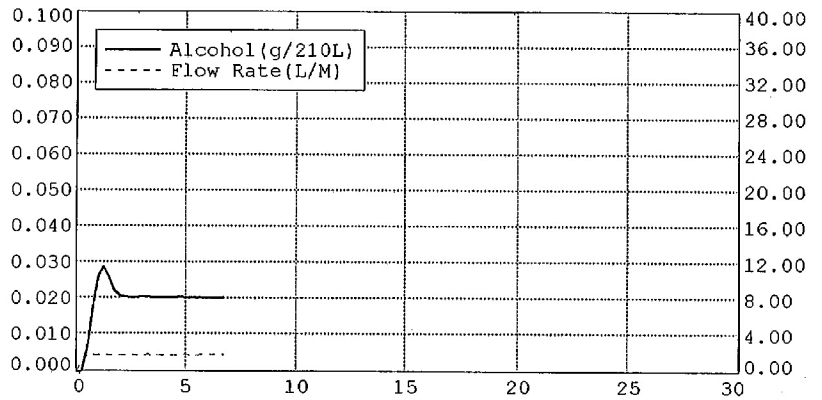
Date: 10/13/2011
 Time: 14:14:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.91: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:16
EXTERNAL STANDARD	0.021	14:16
BLANK TEST	0.000	14:17
EXTERNAL STANDARD	0.021	14:17
BLANK TEST	0.000	14:18
EXTERNAL STANDARD	0.020	14:18
BLANK TEST	0.000	14:19
EXTERNAL STANDARD	0.020	14:19
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.020	14:21
BLANK TEST	0.000	14:22

Average = 0.0204
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100667

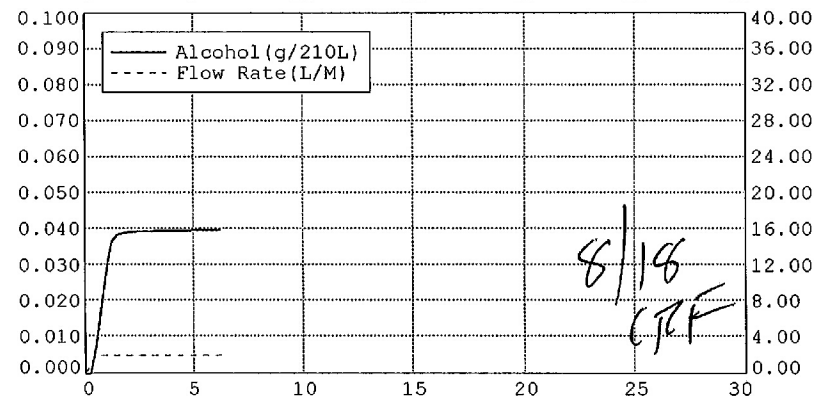
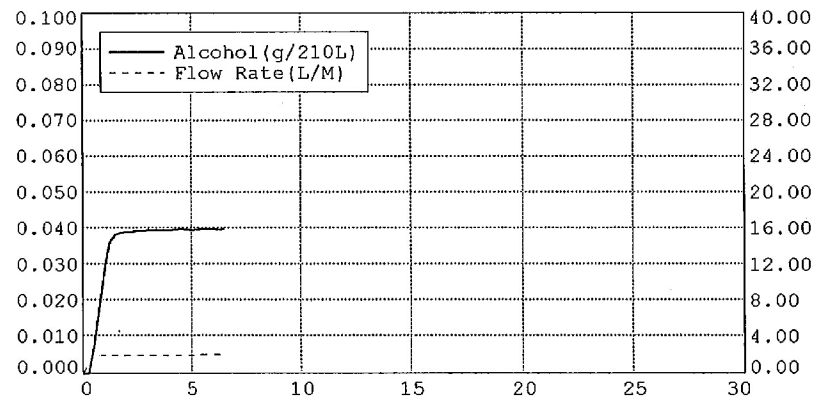
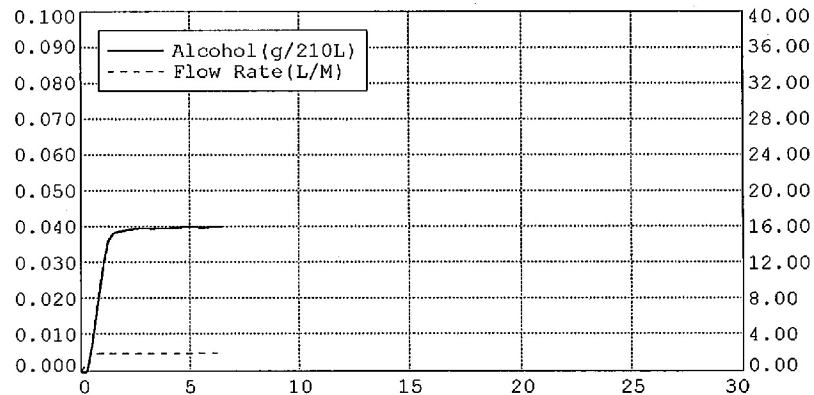
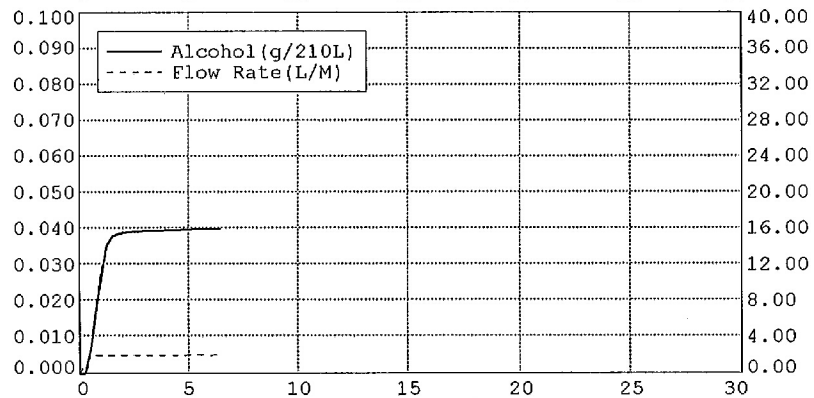
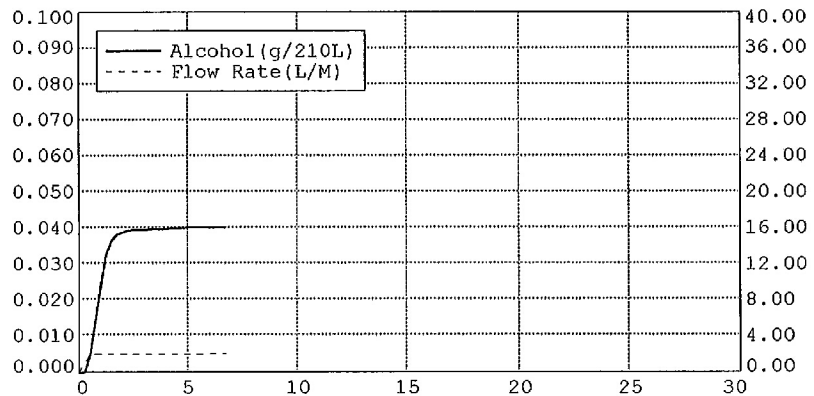
Date: 10/13/2011
Time: 14:22:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.91: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:23
INTERNAL STANDARD	VERIFIED	14:23
EXTERNAL STANDARD	0.041	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.040	14:25
BLANK TEST	0.000	14:26
EXTERNAL STANDARD	0.040	14:26
BLANK TEST	0.000	14:27
EXTERNAL STANDARD	0.040	14:27
BLANK TEST	0.000	14:28
EXTERNAL STANDARD	0.040	14:28
BLANK TEST	0.000	14:29

Average = 0.0402
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

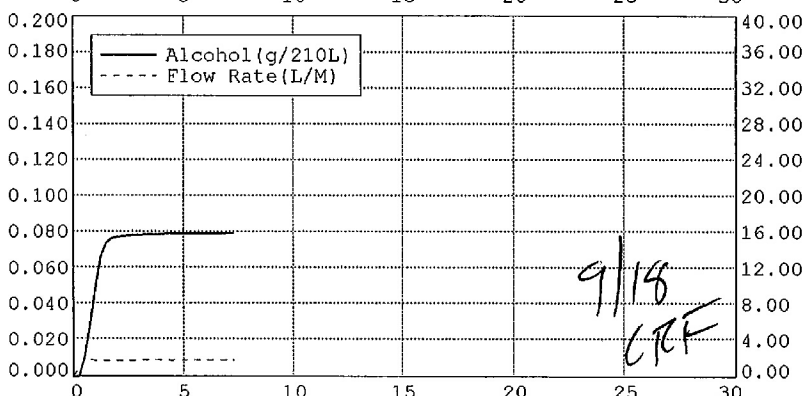
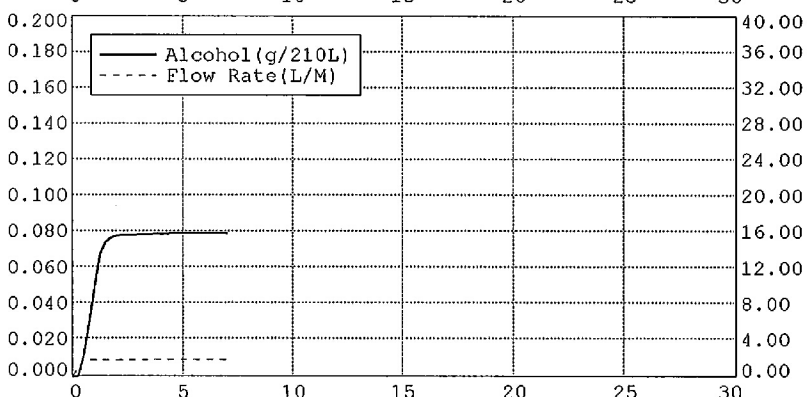
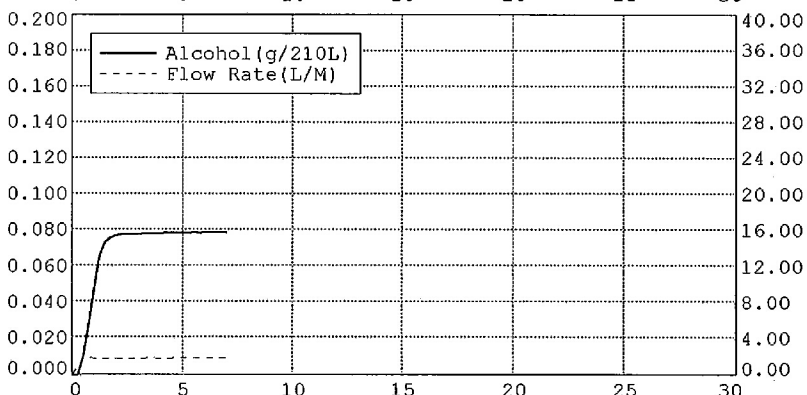
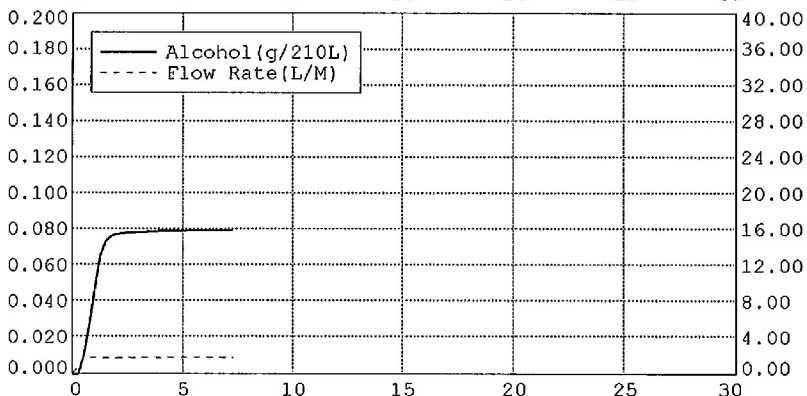
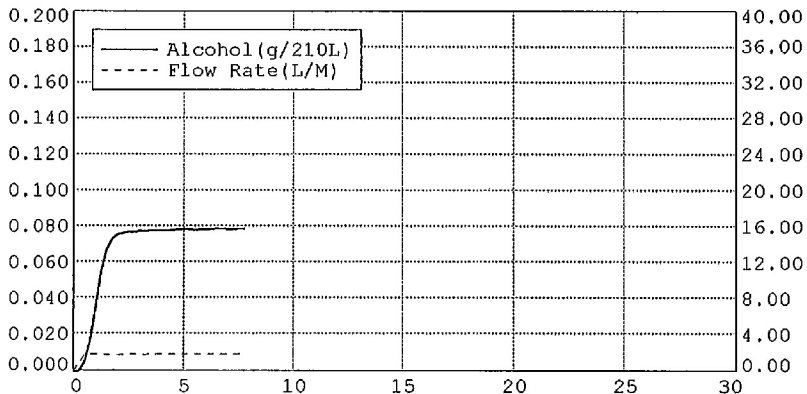
Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 10/13/2011
 Time: 14:30:30

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.91: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

BLANK TEST	0.000	14:31
INTERNAL STANDARD	VERIFIED	14:31
EXTERNAL STANDARD	0.079	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.080	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.079	14:34
BLANK TEST	0.000	14:35
EXTERNAL STANDARD	0.079	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.079	14:37
BLANK TEST	0.000	14:38

Average = 0.0792
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

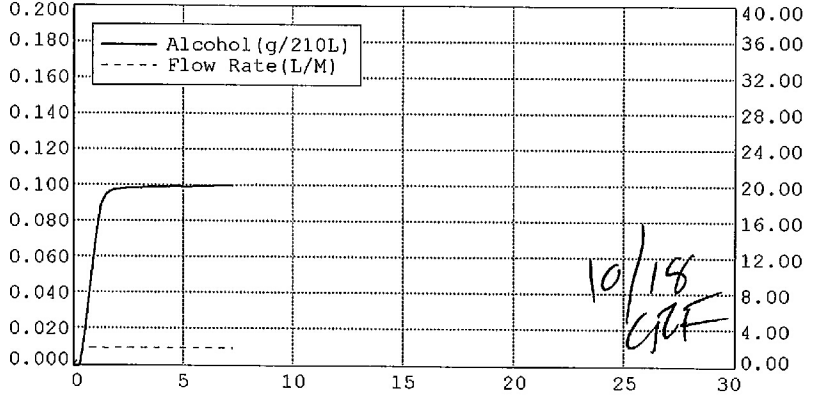
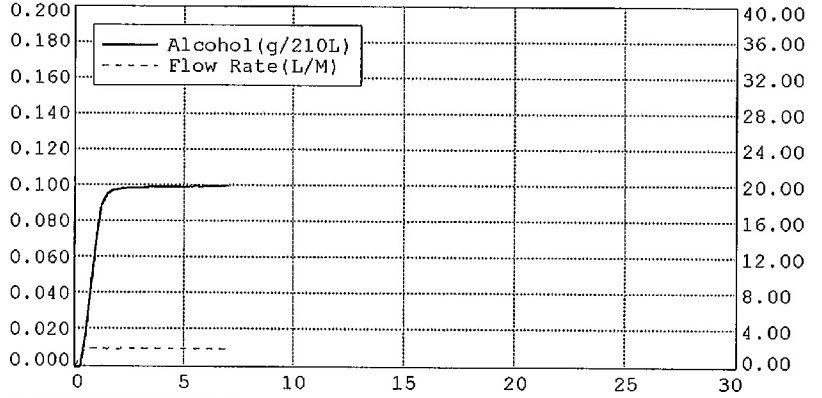
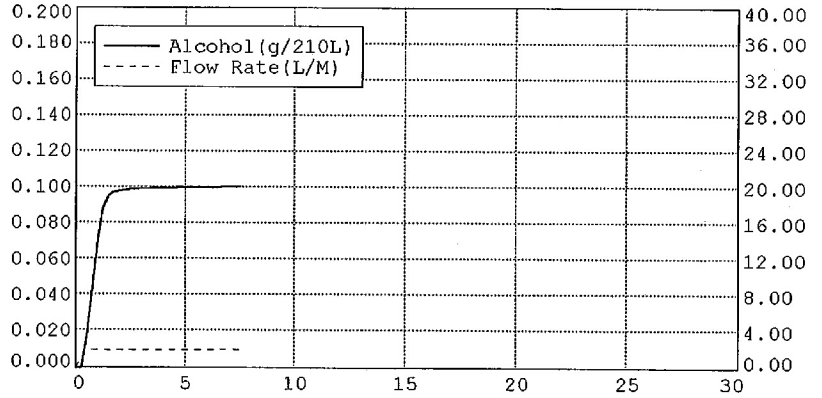
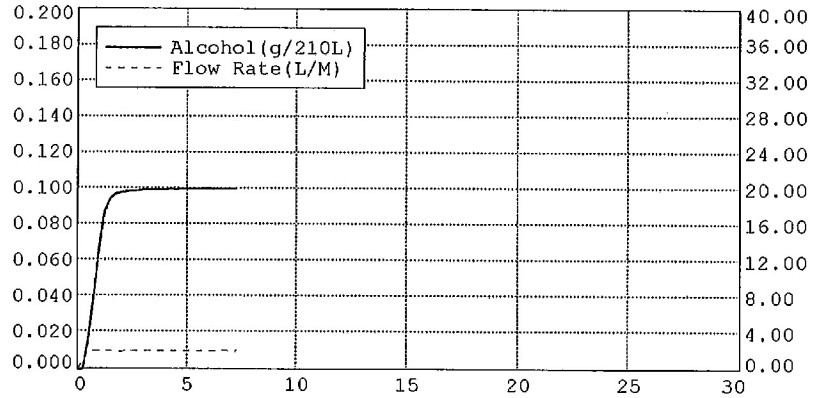
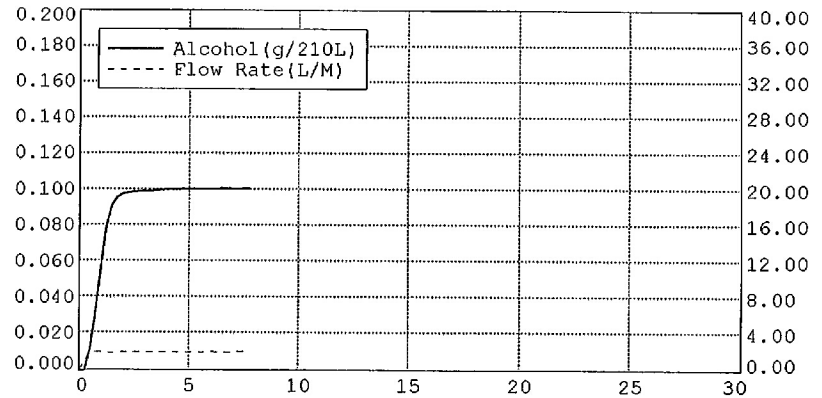
Date: 10/13/2011
 Time: 14:38:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.91: 0.099
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.101	14:42
BLANK TEST	0.000	14:42
EXTERNAL STANDARD	0.100	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.100	14:44
BLANK TEST	0.000	14:45
EXTERNAL STANDARD	0.100	14:45
BLANK TEST	0.000	14:46
EXTERNAL STANDARD	0.100	14:46
BLANK TEST	0.000	14:47

Average = 0.1002
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

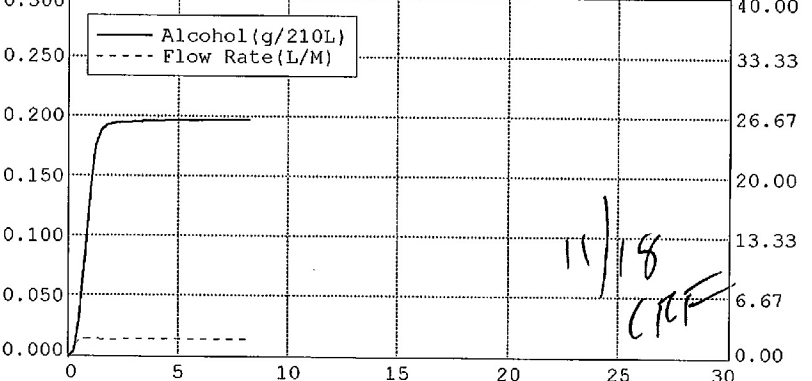
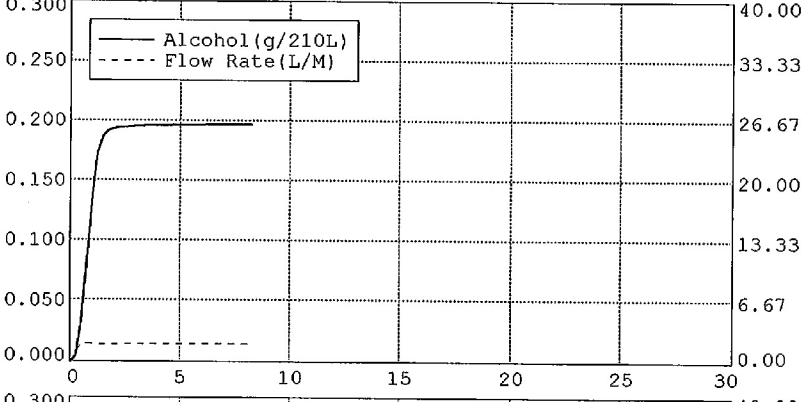
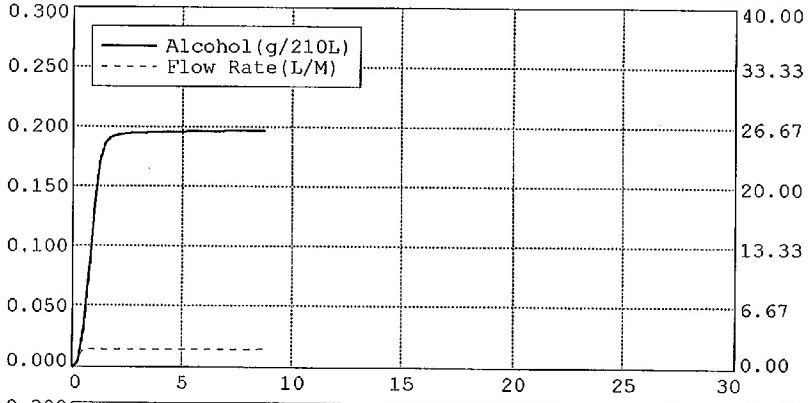
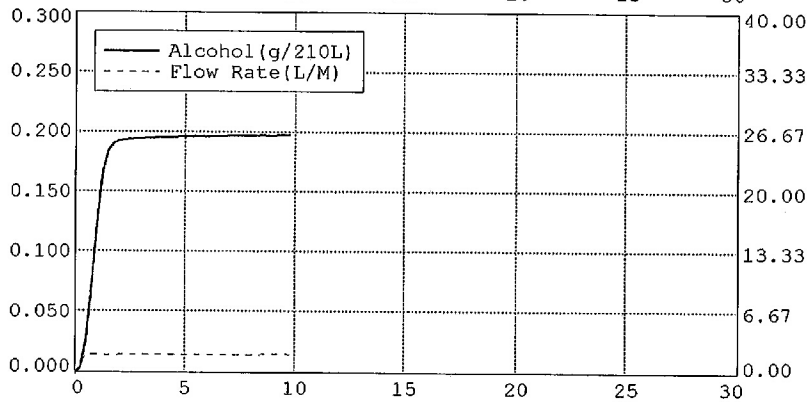
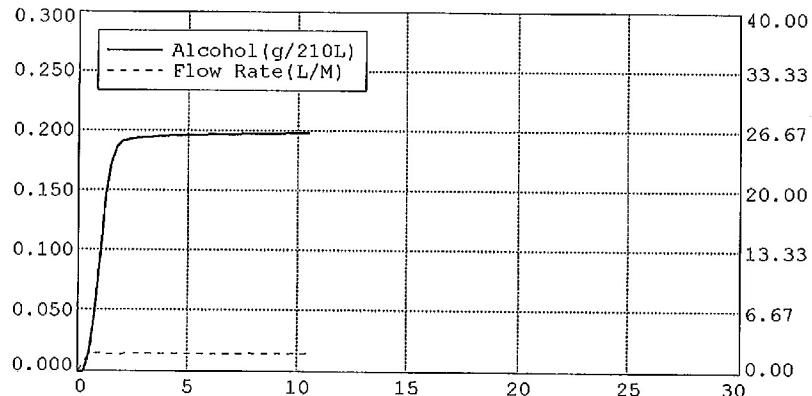
Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 10/13/2011
 Time: 14:48:00

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.200
 TARGET AT 29.91: 0.199
 LOT #: 07411200A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
EXTERNAL STANDARD	0.198	14:49
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.197	14:51
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.197	14:52
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.197	14:53
BLANK TEST	0.000	14:54
EXTERNAL STANDARD	0.197	14:54
BLANK TEST	0.000	14:55

Average = 0.1972
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

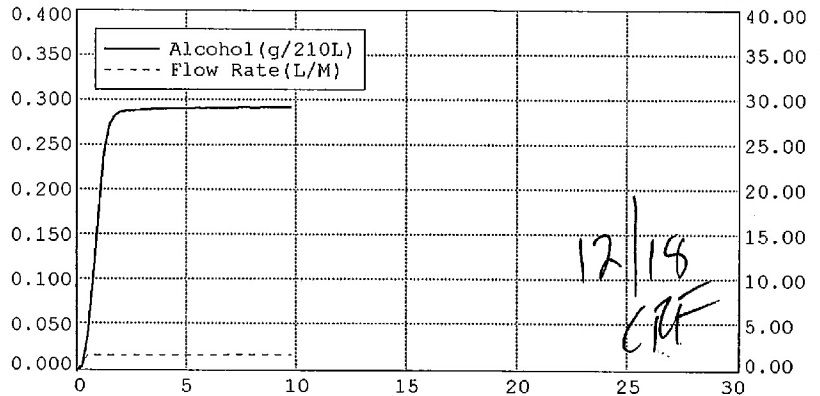
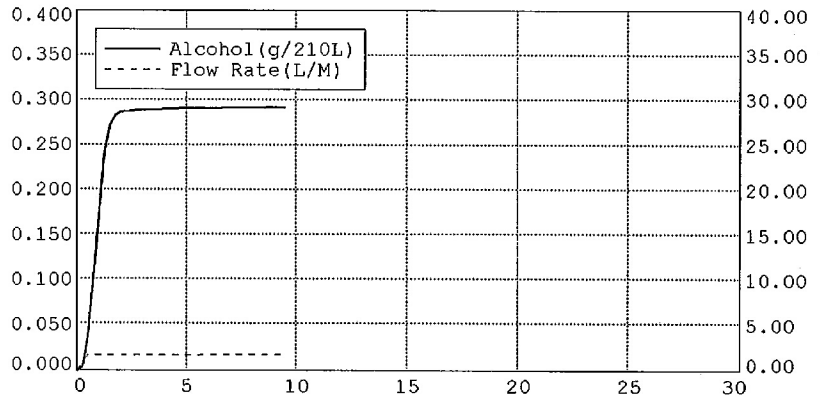
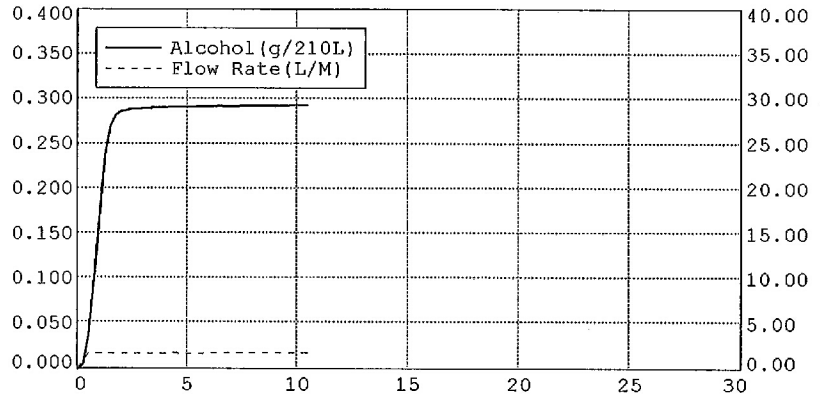
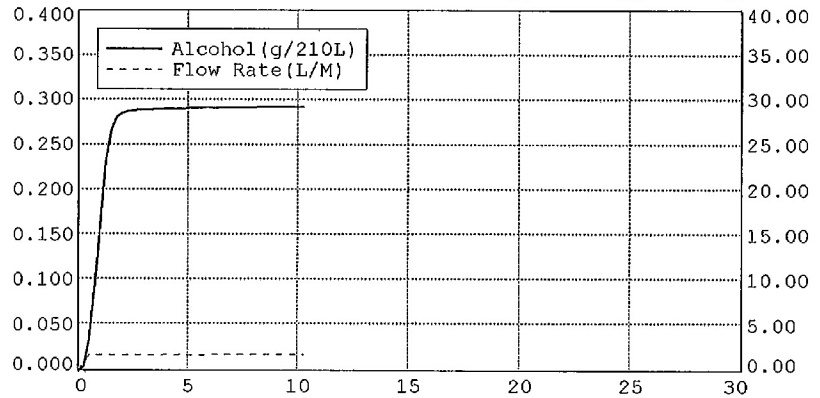
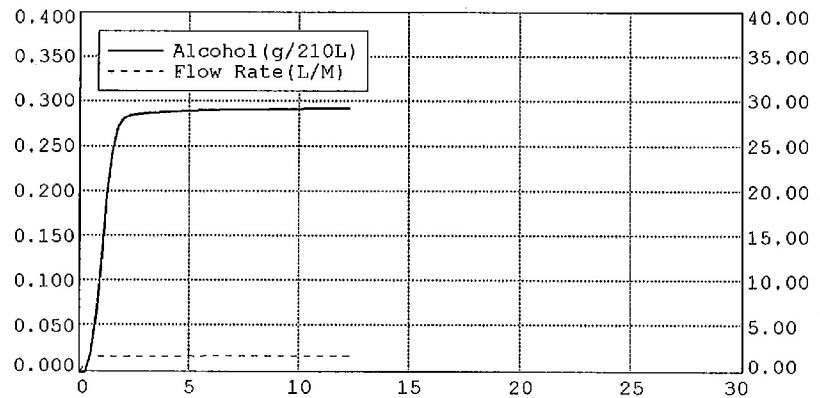
 Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 10/13/2011
 Time: 14:56:18

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 TARGET AT 29.91: 0.299
 LOT #: 07611300A1
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
EXTERNAL STANDARD	0.291	14:58
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.292	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.292	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.291	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.292	15:02
BLANK TEST	0.000	15:03

Average = 0.2916
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 10/13/2011
 Time: 15:11:16

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

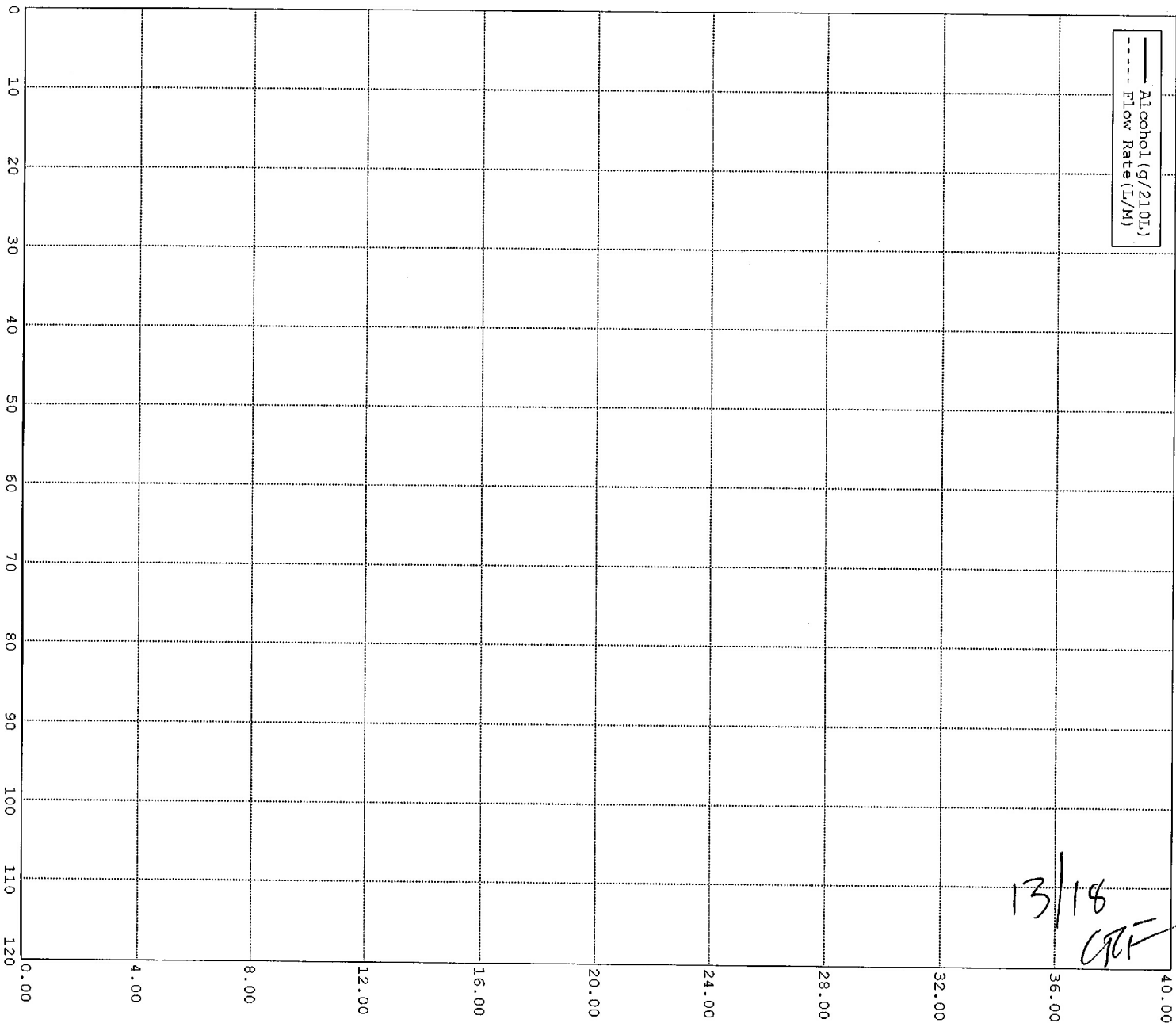
OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.90: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:12
BLANK TEST	0.000	15:12
INTERNAL STANDARD	VERIFIED	15:12
EXTERNAL STANDARD	0.079	15:12
BLANK TEST	0.000	15:13
SUBJECT SAMPLE	INCOMPLETE	15:15

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 10/13/2011
Time: 15:24:51

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

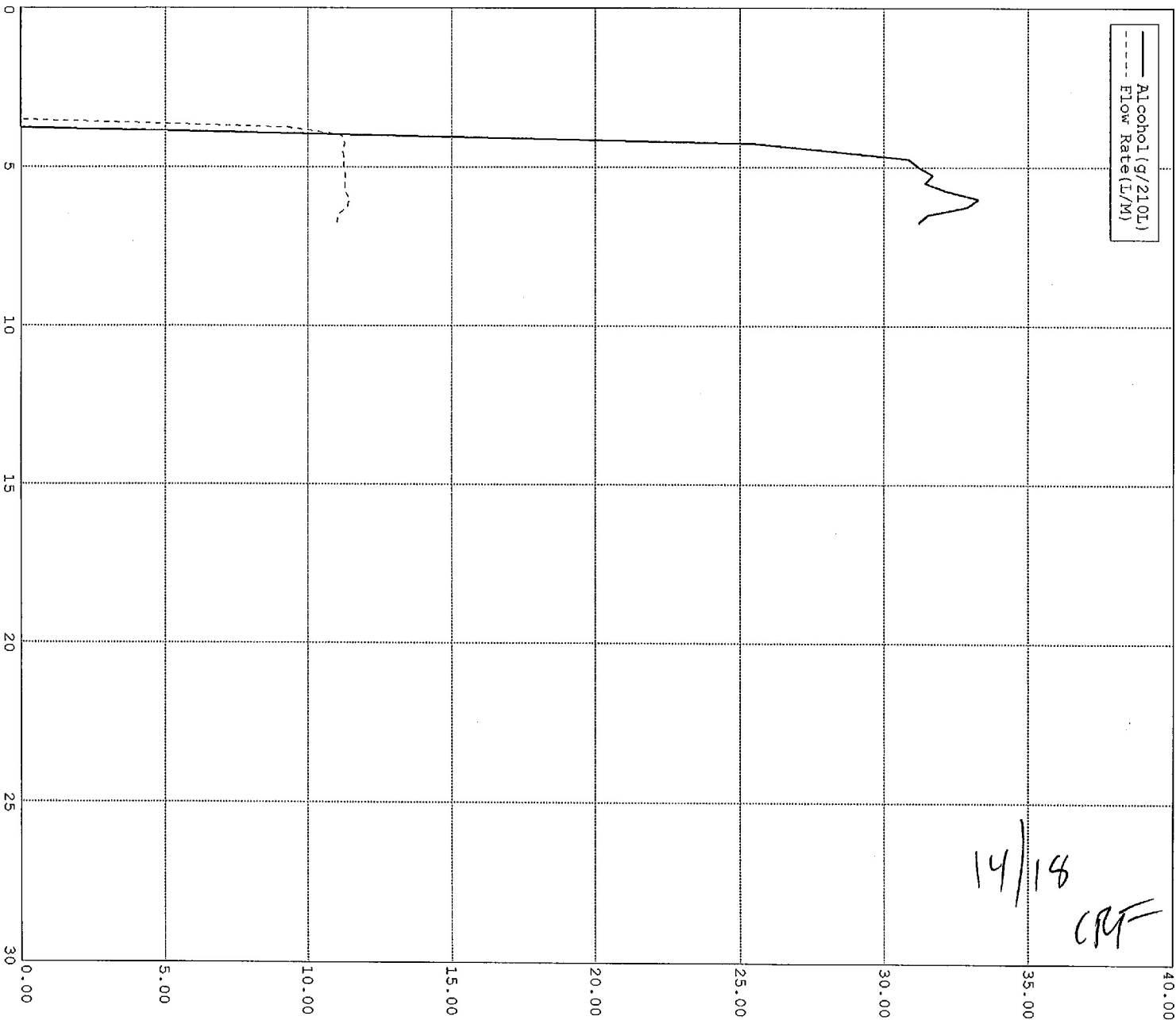
OPERATOR NAME:
INVALID KNOWN MOUTH ETOH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:29
BLANK TEST	0.000	15:29
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.080	15:30
BLANK TEST	0.000	15:31
SUBJECT SAMPLE	Invalid	15:31

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100667

Date: 10/14/2011
 Time: 09:14:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

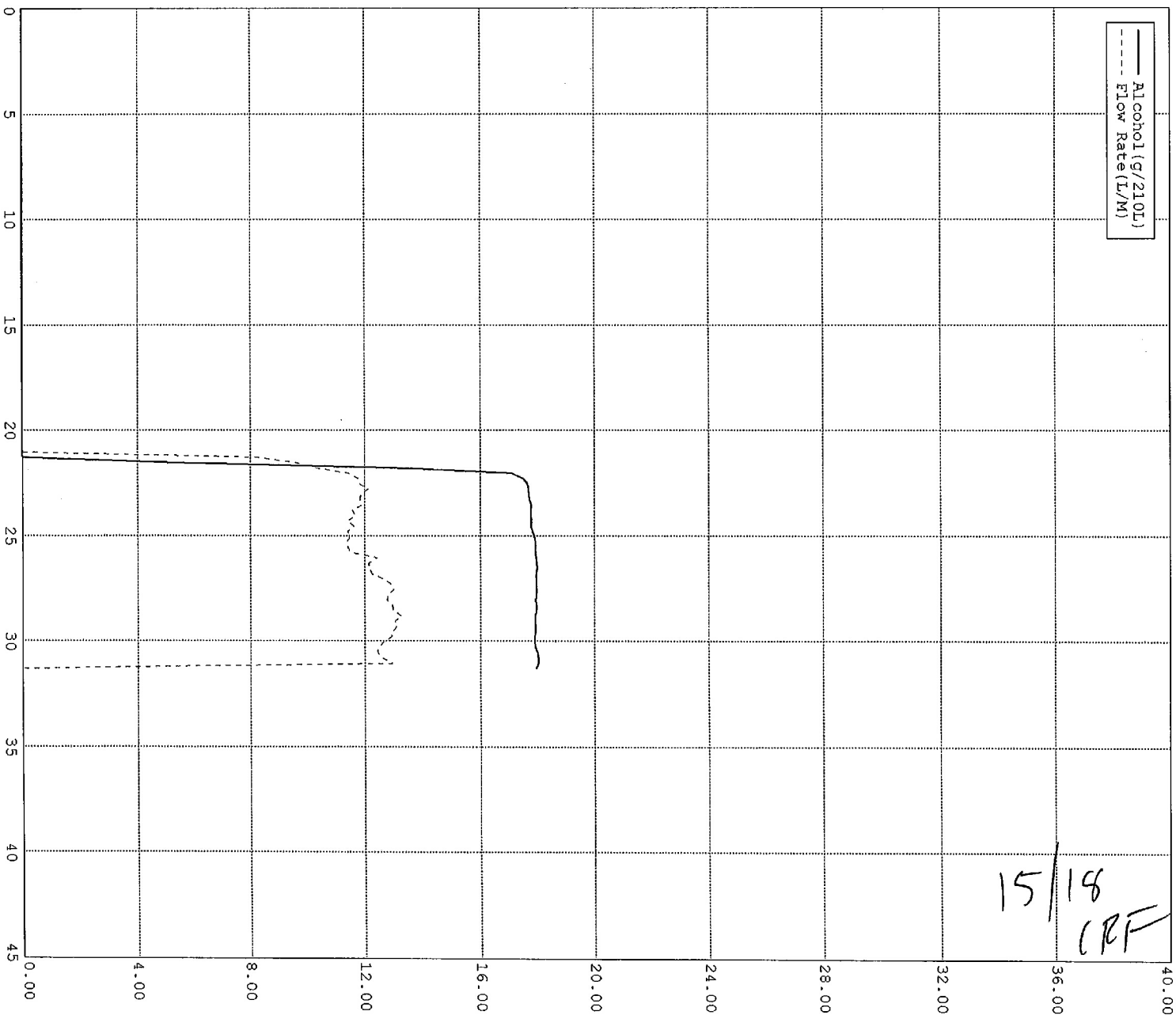
OPERATOR NAME:
 INTERFERENCE ETOH AND ACETONE
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.40: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:15
BLANK TEST	0.000	09:15
INTERNAL STANDARD	VERIFIED	09:15
EXTERNAL STANDARD	0.077	09:16
BLANK TEST	0.000	09:17
SUBJECT SAMPLE	INTERFERENCE	09:17

CRF



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 CRF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 10/14/2011
 Time: 08:59:31

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

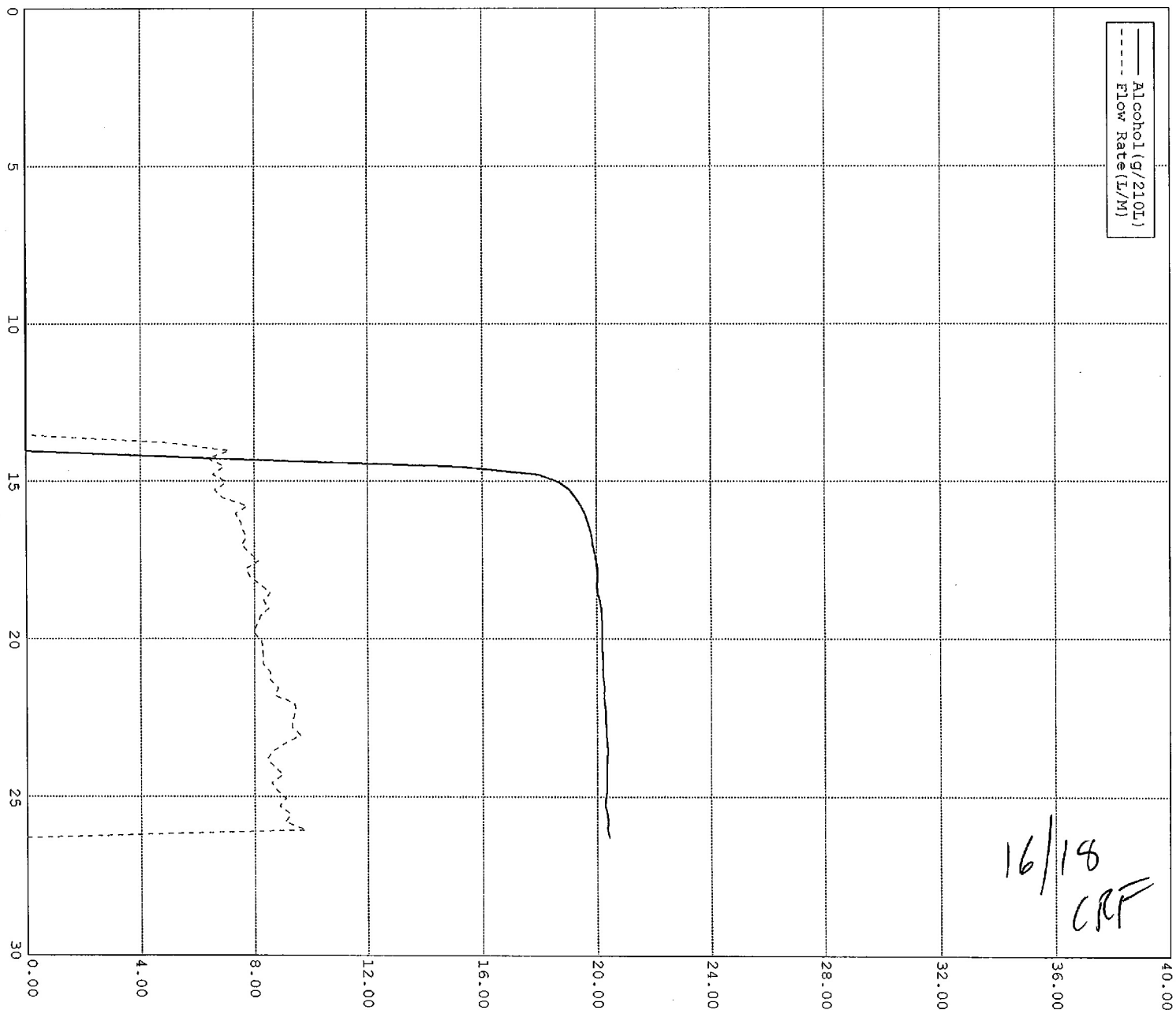
OPERATOR NAME:
 INTERFERENCE ETOH AND IPA
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.40: 0.078
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:00
BLANK TEST	0.000	09:00
INTERNAL STANDARD	VERIFIED	09:00
EXTERNAL STANDARD	0.077	09:01
BLANK TEST	0.000	09:02
SUBJECT SAMPLE	INTERFERENCE	09:02

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100667

Date: 10/13/2011
 Time: 15:35:24

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

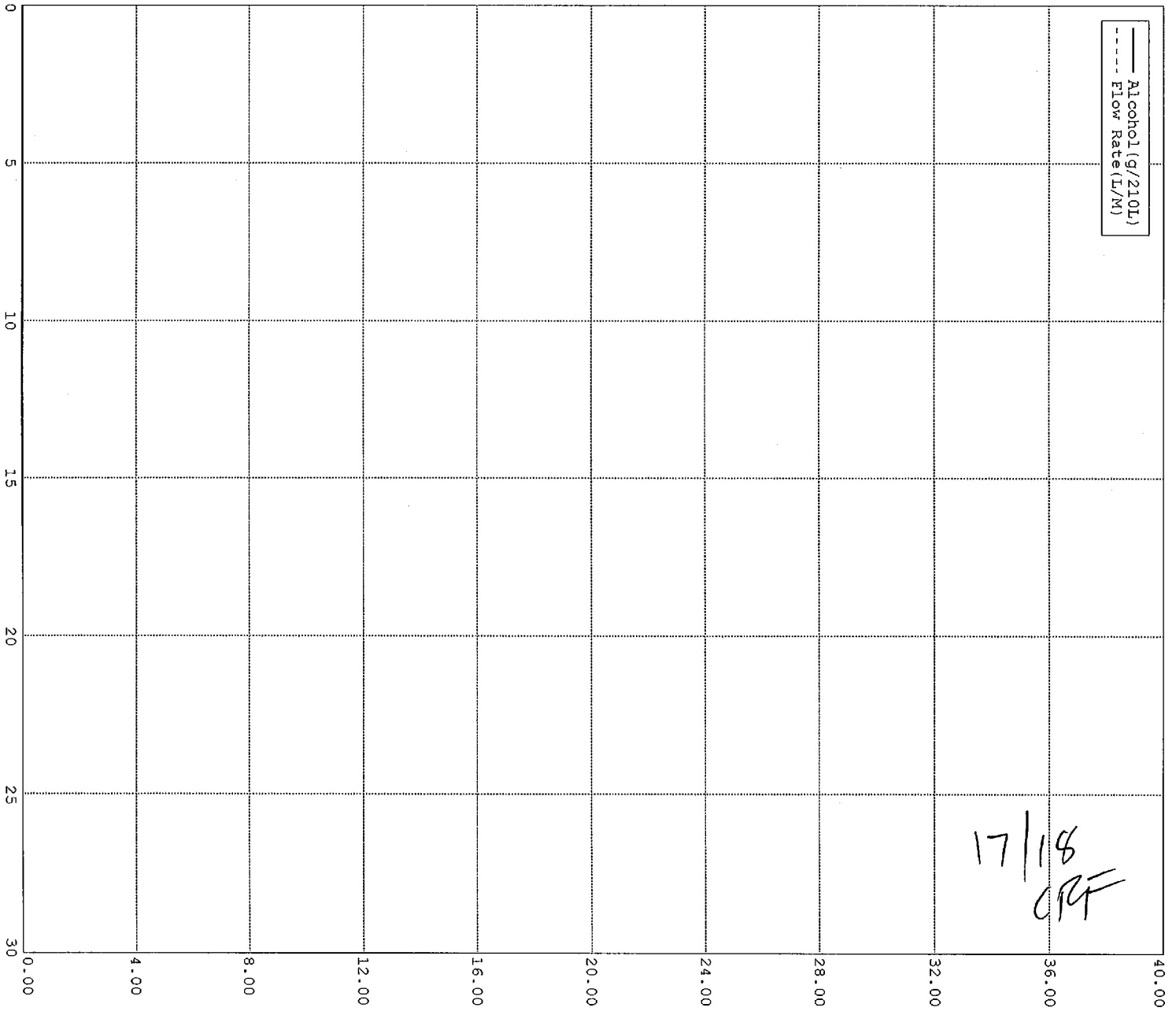
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.90: 0.079
 LOT #: 02511080A3
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	15:37
BLANK TEST	0.000	15:37
INTERNAL STANDARD	VERIFIED	15:37
EXTERNAL STANDARD	0.079	15:37
BLANK TEST	0.000	15:38

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100667

Date: 10/14/2011
Time: 09:32:18

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

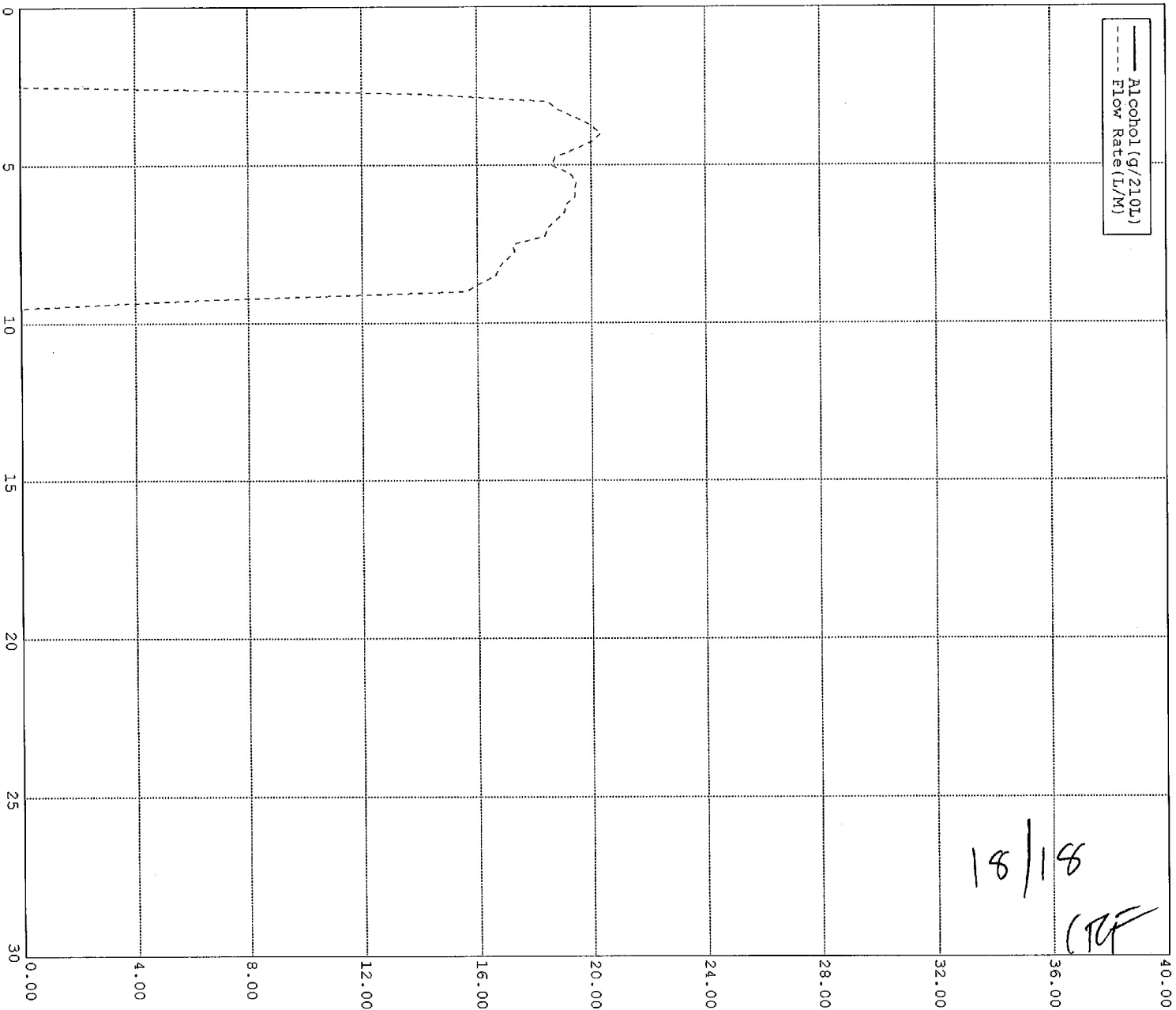
OPERATOR NAME:
CHARLES FOSTER
OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.40: 0.078
LOT #: 02511080A3
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:33
BLANK TEST	0.000	09:33
INTERNAL STANDARD	VERIFIED	09:33
EXTERNAL STANDARD	0.079	09:33
BLANK TEST	0.000	09:34
SUBJECT SAMPLE	0.000	09:35
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.078	09:36
BLANK TEST	0.000	09:37

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Final page for report

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