

	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 # 100365Analyst Chuck FosterDate 3/25/11

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 1700 mL ☒
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ☒
 - i. 0.020g/210L Mnf ILMO Lot 15210020A1 Exp 7/1/12
 - ii. 0.040g/210L Mnf ILMO Lot 15210040A2 Exp 7/1/12
 - iii. 0.080g/210L Mnf ILMO Lot 33609080A1 Exp 1/1/12
 - iv. 0.100g/210L Mnf ILMO Lot 05611100A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 07411200A2 Exp 3/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07411300A1 Exp 3/1/13
6. Functional Tests (attached)
 - a. Incomplete ☒
 - b. Invalid ☒
 - c. Interference ☒
 - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/11
 1. Simulator Calibration Date 10/14/10 SN DR6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 12/2/11
 1. Simulator Calibration Date 8/4/10 SN SD1202
 - d. RFI ☒
7. Calibrate Stylus ☒
8. Verify card reader is functional ☒
9. Upload ☒
10. Reset Options ☒
11. Non-Drinking Subject Test (attached) ☒

Supervised
Certification
Brandi Barnett

1 of 18 BMB
WF

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 03/25/2011
Time: 12:59:14

VERSIONS
DMT: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.0°C	PASSED
Breath Tube = 44.2°C	PASSED

PUMP INFO
Flow Rate = 4.173 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 of 18
WF BMB

DATAMASTER dmt: 100365

Date: 03/25/2011
Time: 1:12 PM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 43.8°C

Current Barometer 29.5 in
Volume (Ltr) 1.45

Settings
Lamp: 2.36 V
Bias: 80 V
Cooler: 1.74 V
Chopper: 540 Hz

Voltages (V)
Flow: 1.04 V
Detector: 0.427 V

3 of 18
(REF) *[Signature]*

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 03/22/2011
Time: 13:11:54

SUPERVISOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

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

Ca = 0.1000
CAL = 0.979027 0.800 <= CAL < 1.200
b1 = 0.0007 0.0000 <= b1 < 0.0040
b2 = 0.0054 0.0010 <= b2 < 0.0100
b3 = 0.0002 0.0000 <= b3 < 0.0040
Xq = 0.1046 0.0500 <= Xq < 0.2000
a21 = 1.174732 1.050 <= a21 < 1.300
a31 = 0.454689 0.300 <= a31 < 0.800

4 of 18
CNF MB

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100365

Date: 03/25/2011
Time: 13:23:41

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

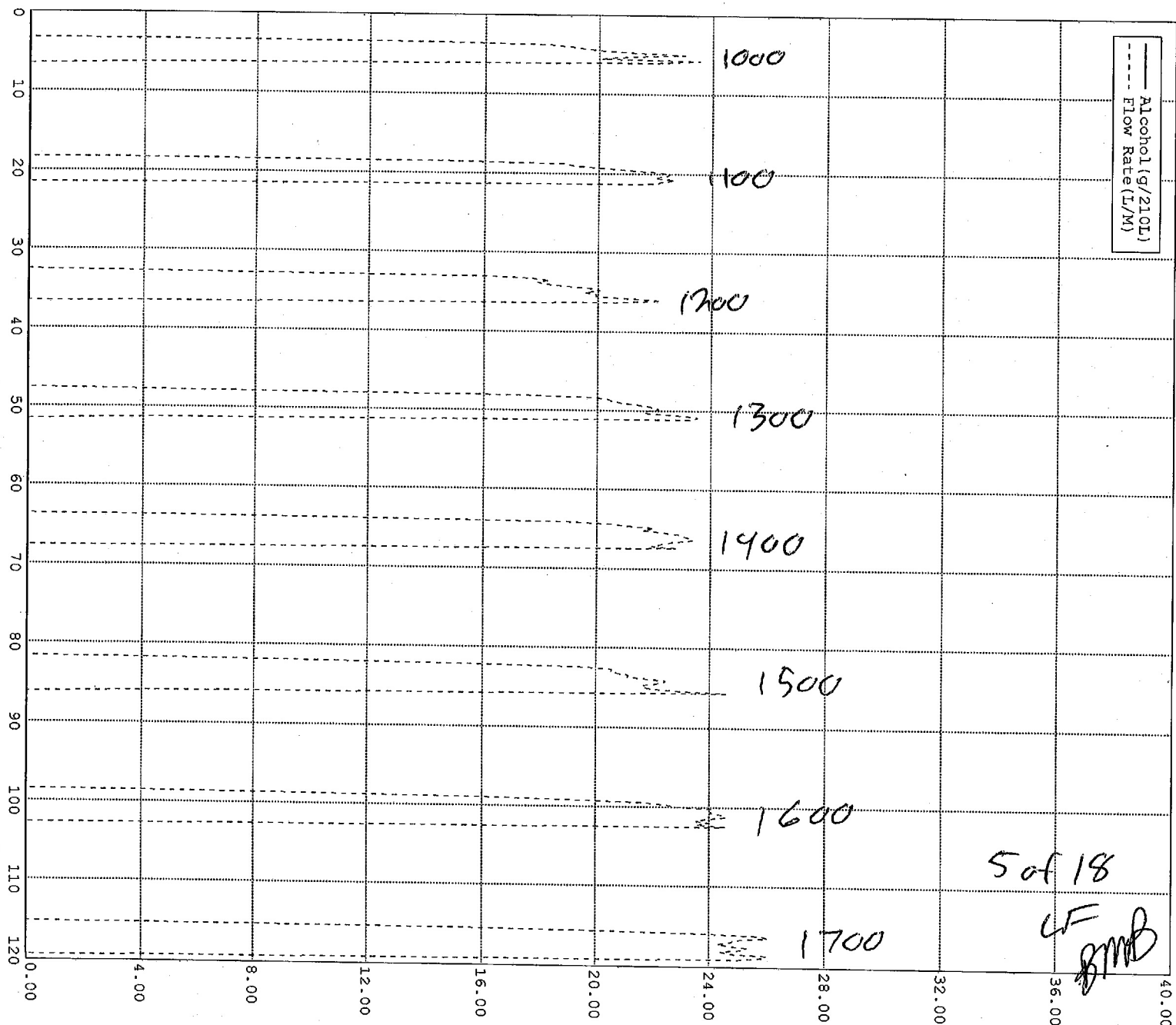
OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.50: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	13:24
BLANK TEST	0.000	13:24
INTERNAL STANDARD	VERIFIED	13:25
EXTERNAL STANDARD	0.079	13:25
BLANK TEST	0.000	13:26
SUBJECT SAMPLE	0.000	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.079	13:29
BLANK TEST	0.000	13:30

Alcohol(g/210L)
Flow Rate(L/M)



LINEARITY CHECK

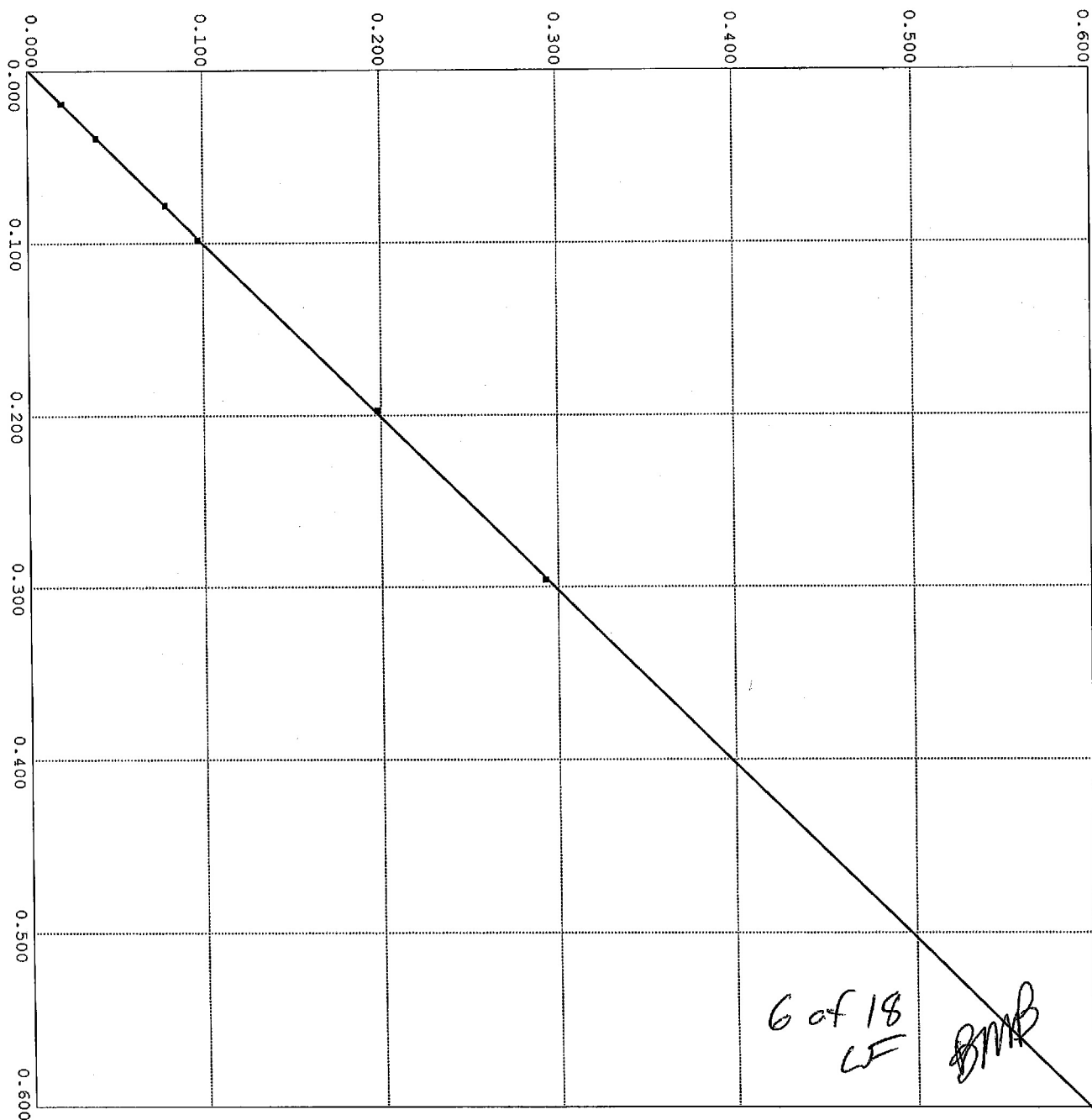
Alaska Department of Public Safety
 DATAMASTER dmt: 100365

Date: 03/25/2011
 Time: 13:36:30

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.039	0.0396	0.0005
0.078	0.0790	0.0000
0.098	0.0978	0.0013
0.197	0.1988	0.0004
0.295	0.2934	0.0011

SLOPE = 0.993671
 R^2 = 0.999953



Handwritten signature/initials

Alaska Department of Public Safety
DATAMASTER dmt: 100365

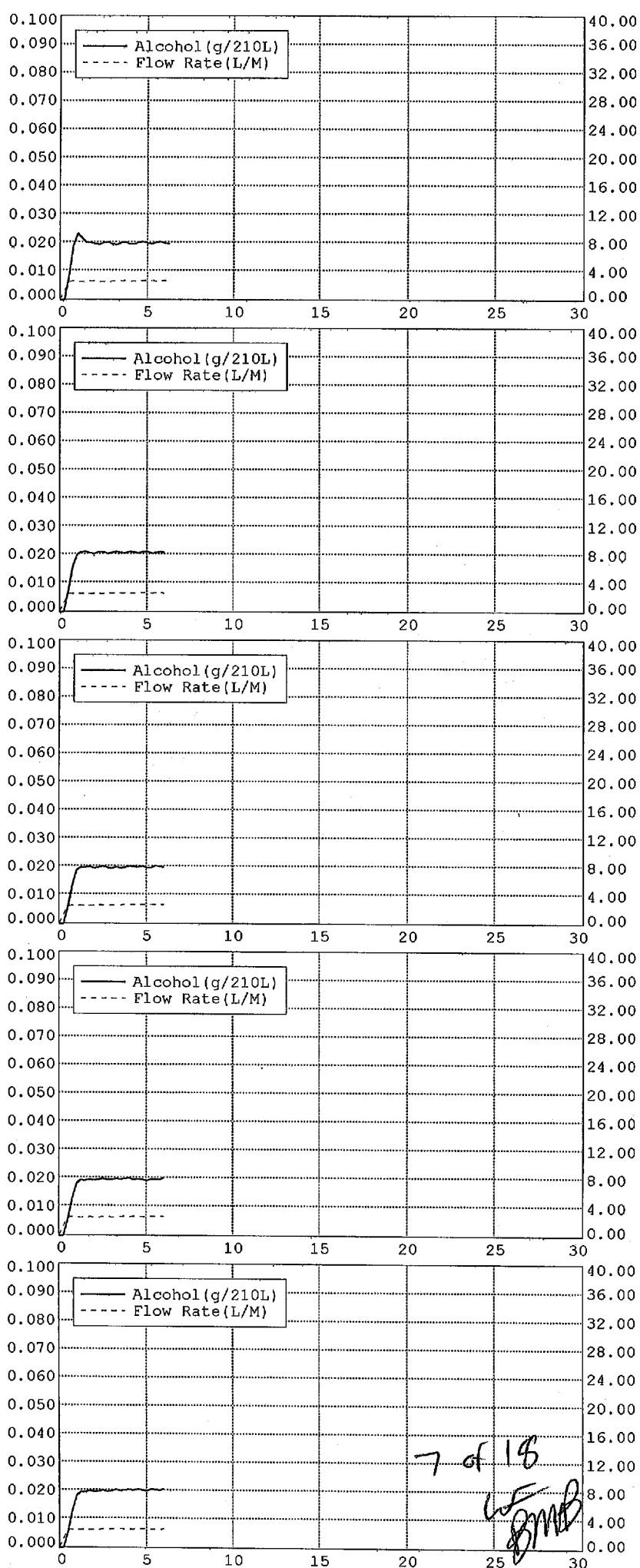
Date: 03/25/2011
Time: 13:38:32

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.51: 0.019
LOT #: 15210020A1
EXPIRATION: 07/01/2012

BLANK TEST	0.000	13:40
INTERNAL STANDARD	VERIFIED	13:41
EXTERNAL STANDARD	0.020	13:41
BLANK TEST	0.000	13:42
EXTERNAL STANDARD	0.021	13:42
BLANK TEST	0.000	13:43
EXTERNAL STANDARD	0.020	13:43
BLANK TEST	0.000	13:44
EXTERNAL STANDARD	0.020	13:44
BLANK TEST	0.000	13:45
EXTERNAL STANDARD	0.020	13:45
BLANK TEST	0.000	13:46

Average = 0.0202
Std Dev = 0.0004



Alaska Department of Public Safety
DATAMASTER dmt: 100365

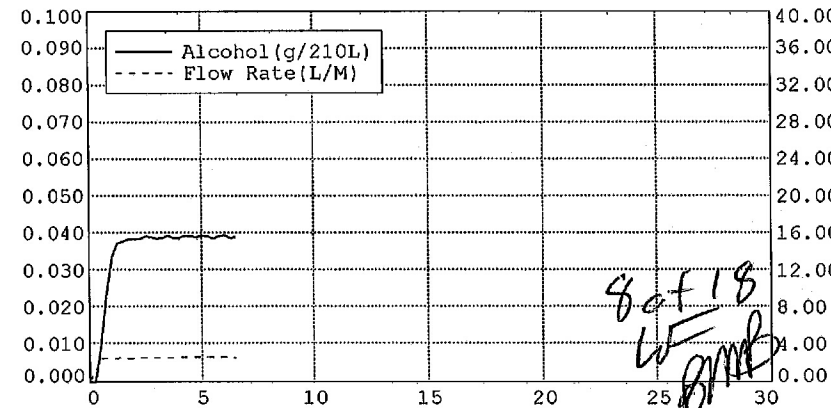
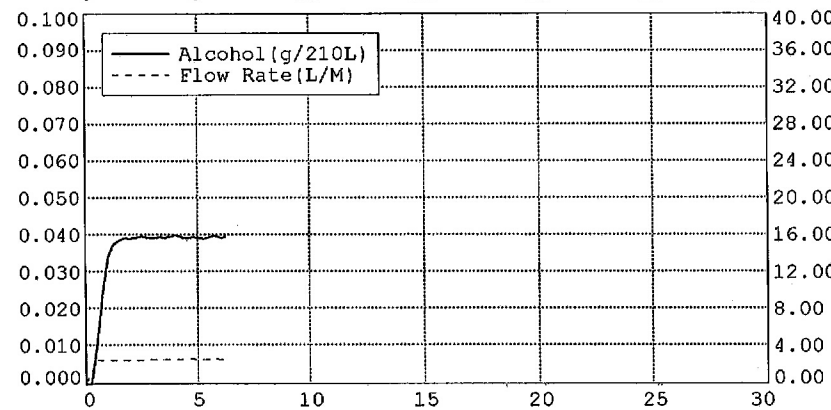
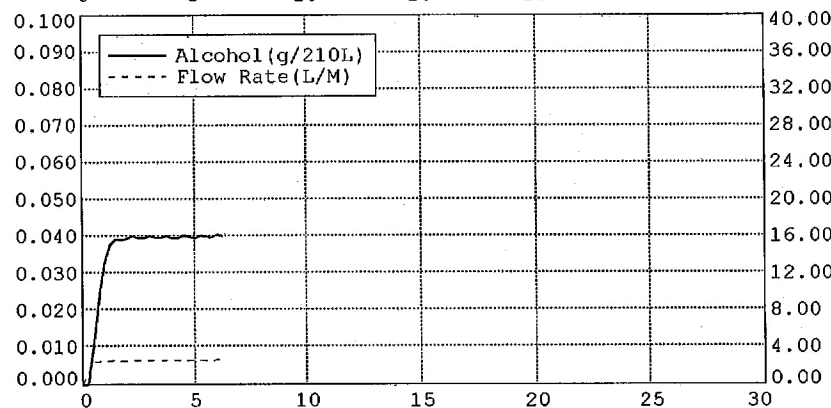
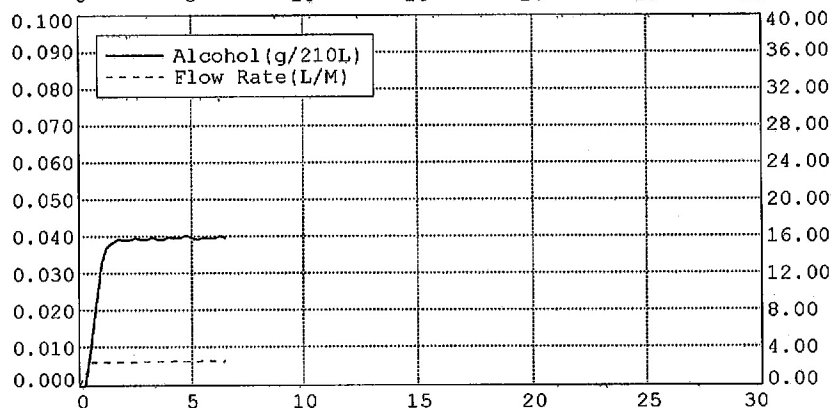
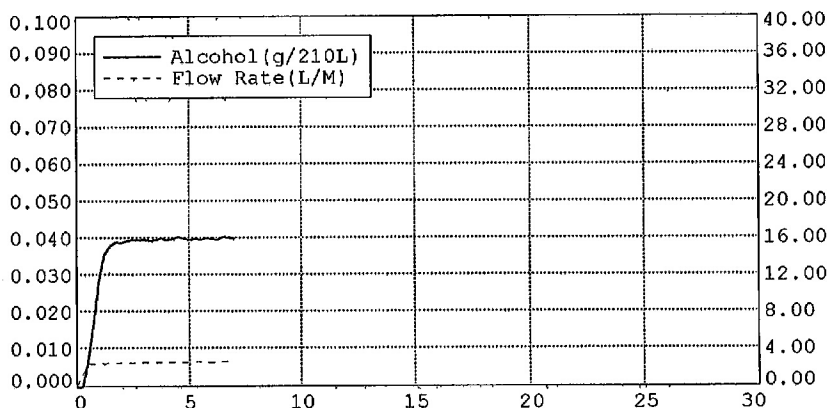
Date: 03/25/2011
Time: 13:49:43

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.51: 0.039
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	13:51
INTERNAL STANDARD	VERIFIED	13:51
EXTERNAL STANDARD	0.040	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.040	13:52
BLANK TEST	0.000	13:53
EXTERNAL STANDARD	0.040	13:54
BLANK TEST	0.000	13:54
EXTERNAL STANDARD	0.039	13:55
BLANK TEST	0.000	13:56
EXTERNAL STANDARD	0.039	13:56
BLANK TEST	0.000	13:57

Average = 0.0396
Std Dev = 0.0005



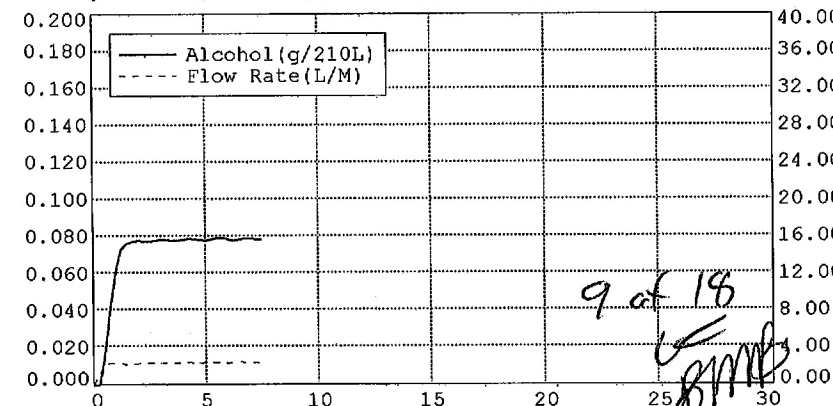
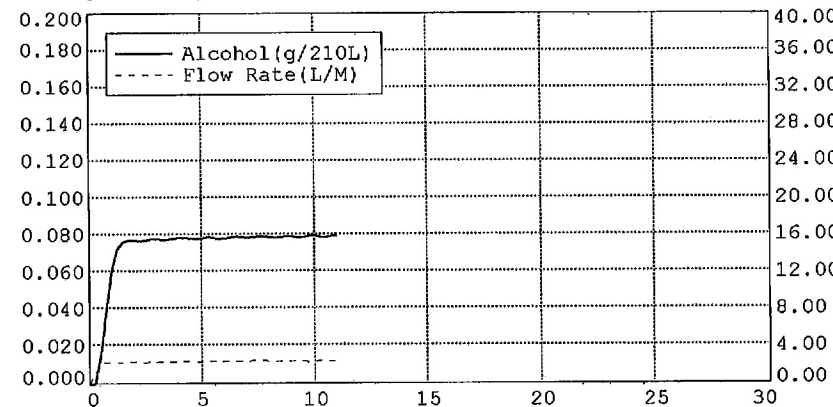
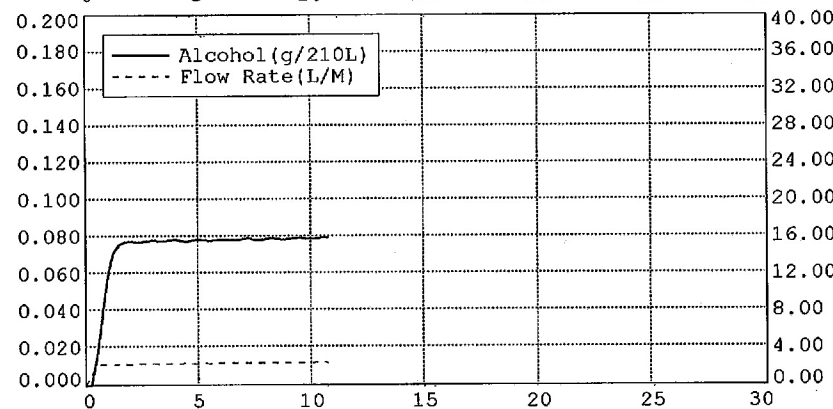
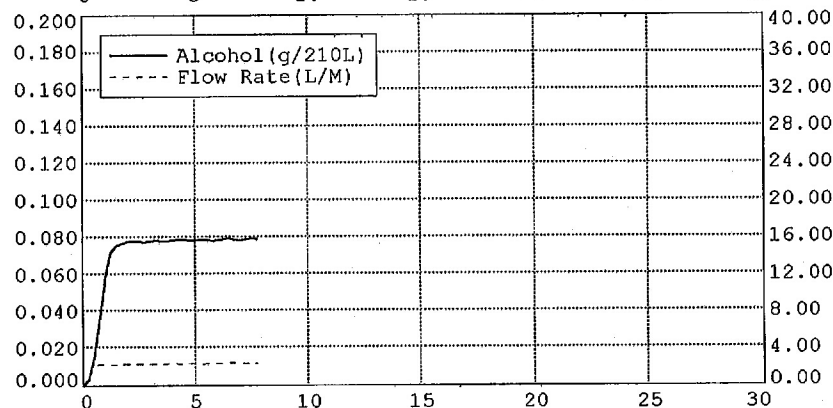
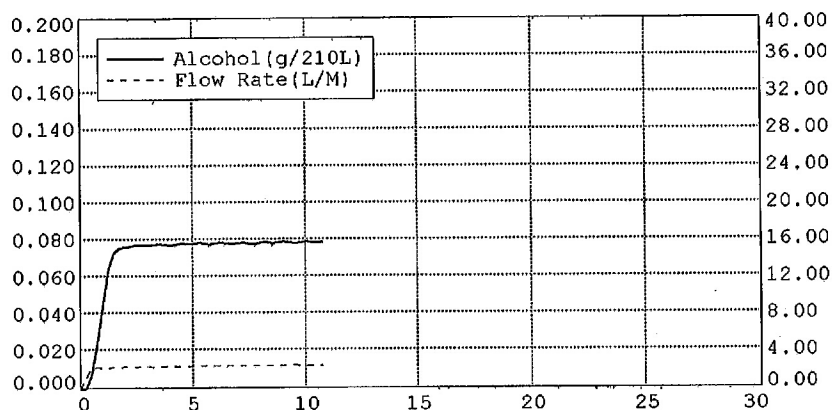
Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 03/25/2011
Time: 13:57:56

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.50: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

BLANK TEST	0.000	13:59
INTERNAL STANDARD	VERIFIED	13:59
EXTERNAL STANDARD	0.079	13:59
BLANK TEST	0.000	14:00
EXTERNAL STANDARD	0.079	14:00
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.079	14:02
BLANK TEST	0.000	14:03
EXTERNAL STANDARD	0.079	14:03
BLANK TEST	0.000	14:04
EXTERNAL STANDARD	0.079	14:04
BLANK TEST	0.000	14:05

Average = 0.0790
Std Dev = 0.0000



Alaska Department of Public Safety
DATAMASTER dmt: 100365

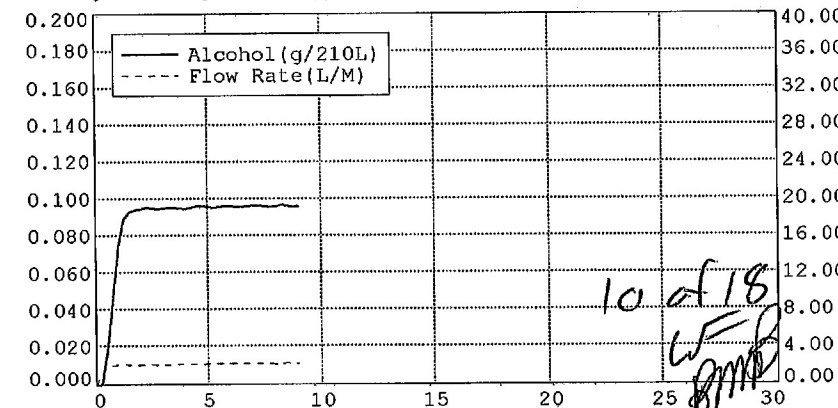
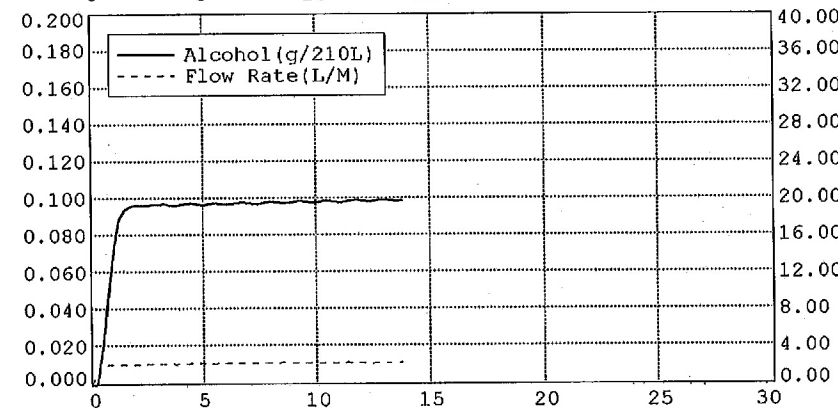
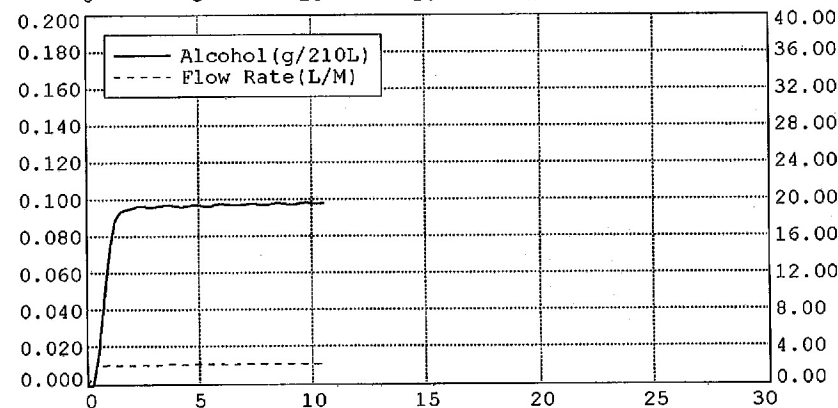
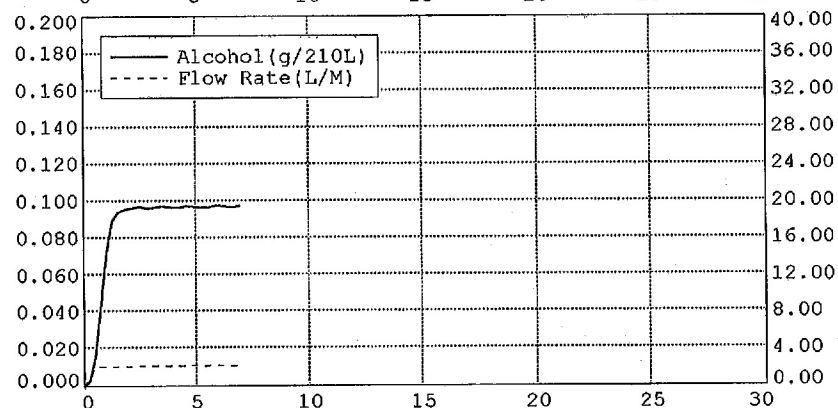
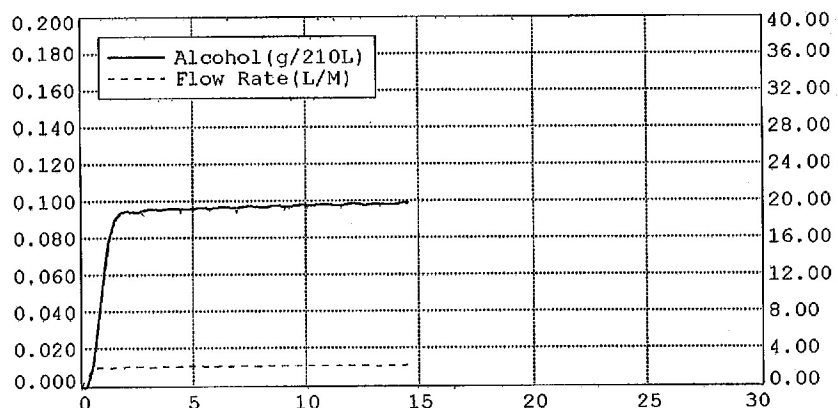
Date: 03/25/2011
Time: 14:07:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.51: 0.098
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:09
INTERNAL STANDARD	VERIFIED	14:09
EXTERNAL STANDARD	0.099	14:09
BLANK TEST	0.000	14:10
EXTERNAL STANDARD	0.097	14:10
BLANK TEST	0.000	14:11
EXTERNAL STANDARD	0.098	14:12
BLANK TEST	0.000	14:13
EXTERNAL STANDARD	0.099	14:13
BLANK TEST	0.000	14:14
EXTERNAL STANDARD	0.096	14:14
BLANK TEST	0.000	14:15

Average = 0.0978
Std Dev = 0.0013



LINEARITY CHECK: Control Test 5

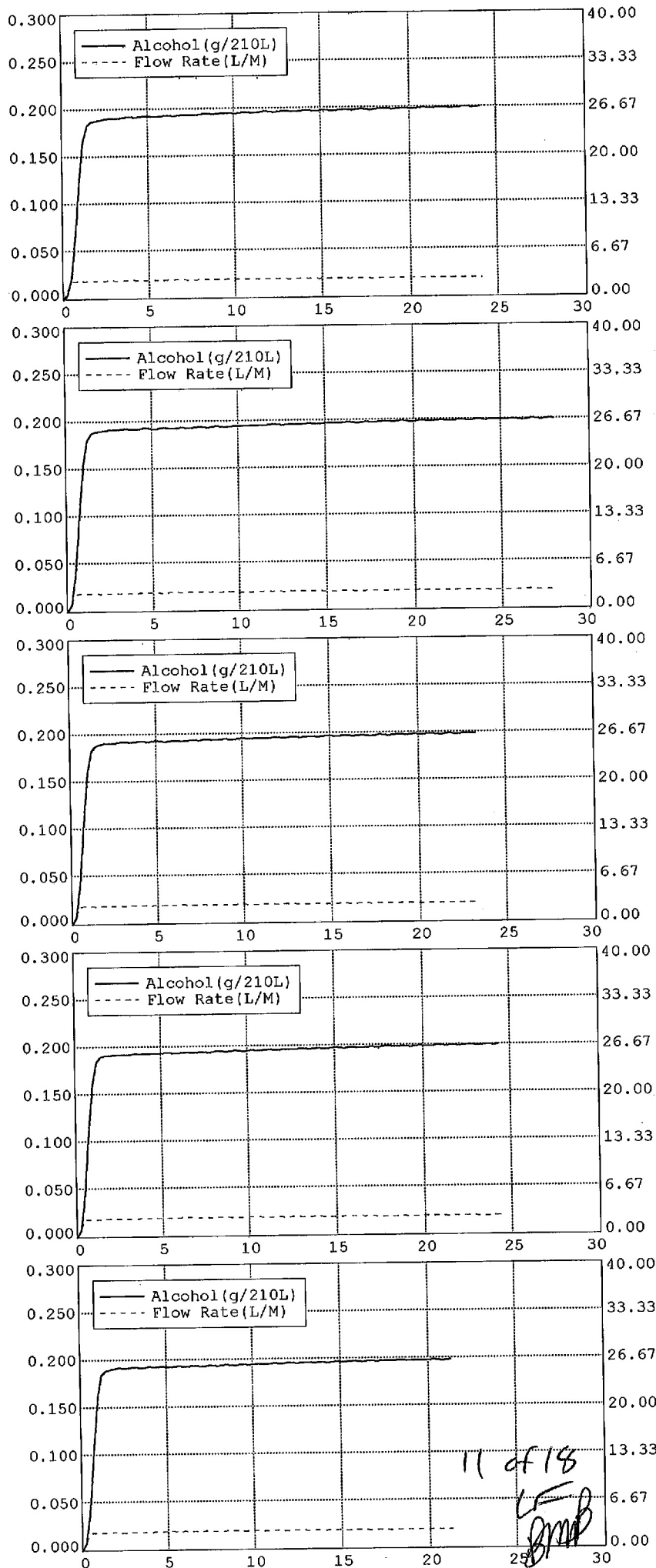
Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 03/25/2011
Time: 14:16:51

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
TARGET AT 29.51: 0.197
LOT #: 07411200A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:18
INTERNAL STANDARD	VERIFIED	14:18
EXTERNAL STANDARD	0.199	14:18
BLANK TEST	0.000	14:20
EXTERNAL STANDARD	0.199	14:20
BLANK TEST	0.000	14:22
EXTERNAL STANDARD	0.199	14:22
BLANK TEST	0.000	14:23
EXTERNAL STANDARD	0.199	14:24
BLANK TEST	0.000	14:25
EXTERNAL STANDARD	0.198	14:26
BLANK TEST	0.000	14:27

Average = 0.1988
Std Dev = 0.0004



Alaska Department of Public Safety
DATAMASTER dmt: 100365

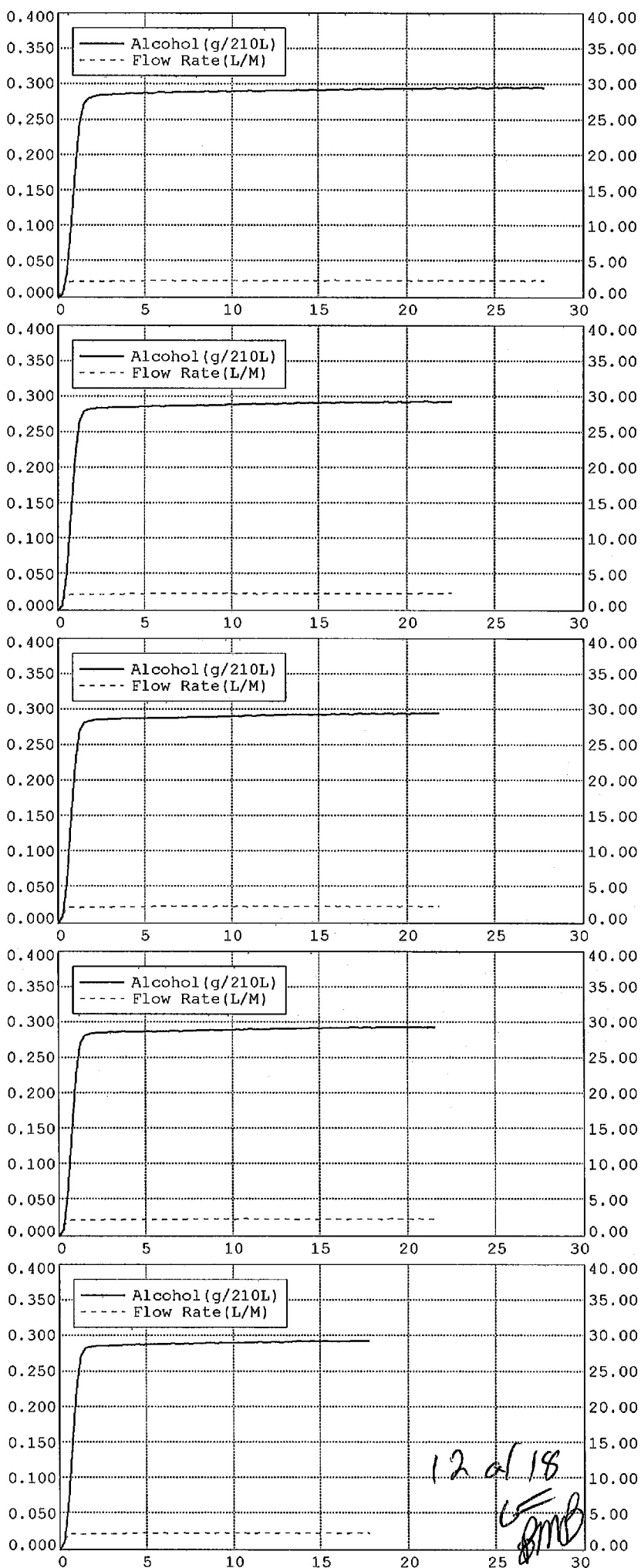
Date: 03/25/2011
Time: 14:28:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.51: 0.295
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	14:29
INTERNAL STANDARD	VERIFIED	14:29
EXTERNAL STANDARD	0.295	14:30
BLANK TEST	0.000	14:31
EXTERNAL STANDARD	0.293	14:32
BLANK TEST	0.000	14:33
EXTERNAL STANDARD	0.294	14:33
BLANK TEST	0.000	14:34
EXTERNAL STANDARD	0.293	14:35
BLANK TEST	0.000	14:36
EXTERNAL STANDARD	0.292	14:36
BLANK TEST	0.000	14:37

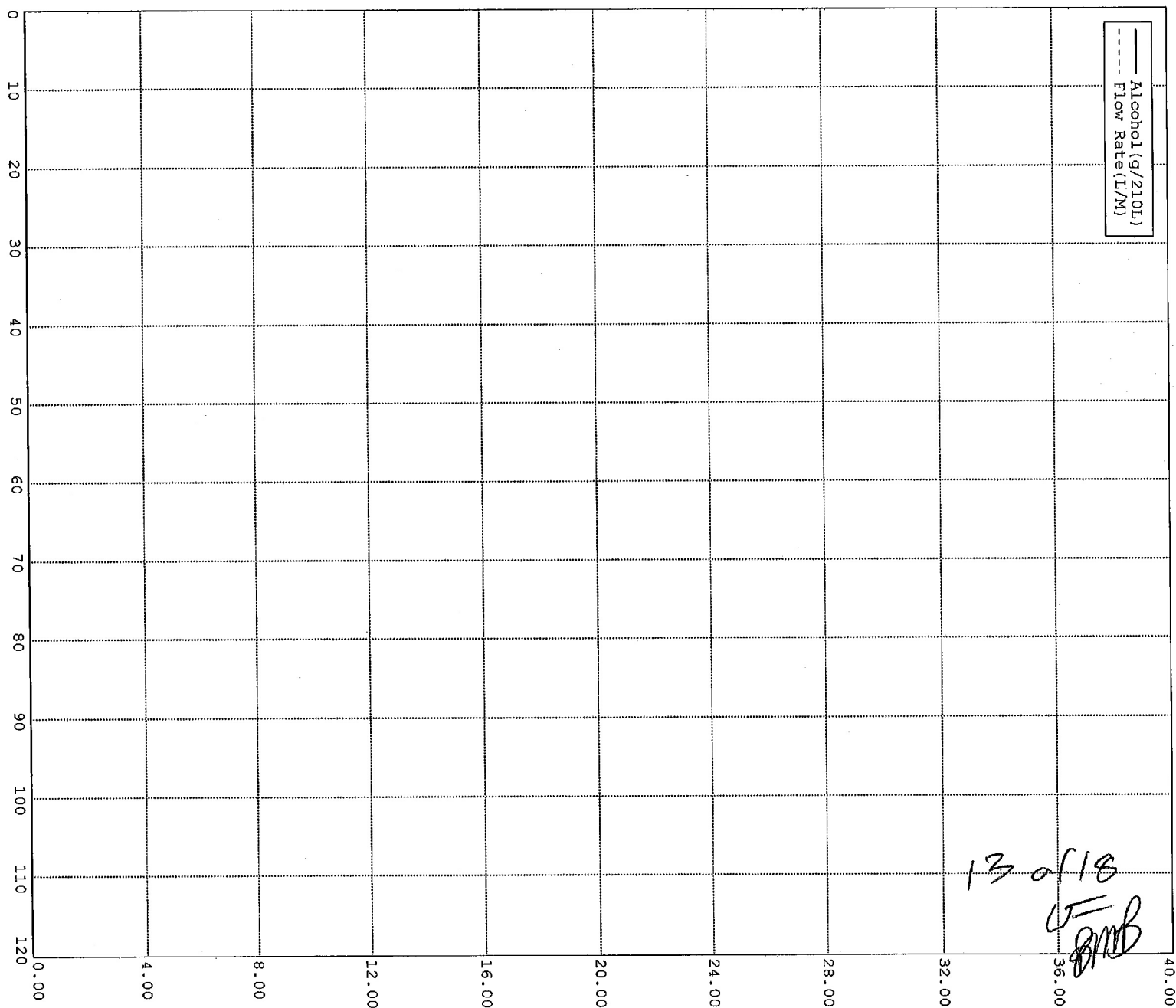
Average = 0.2934
Std Dev = 0.0011



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365Date: 03/25/2011
Time: 14:48:39SUBJECT 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 29.51: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 14:49
INTERNAL STANDARD VERIFIED 14:49
EXTERNAL STANDARD 0.079 14:50
BLANK TEST 0.000 14:51
SUBJECT SAMPLE INCOMPLETE 14:53

lu m



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100365

Date: 03/25/2011
 Time: 14:55:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

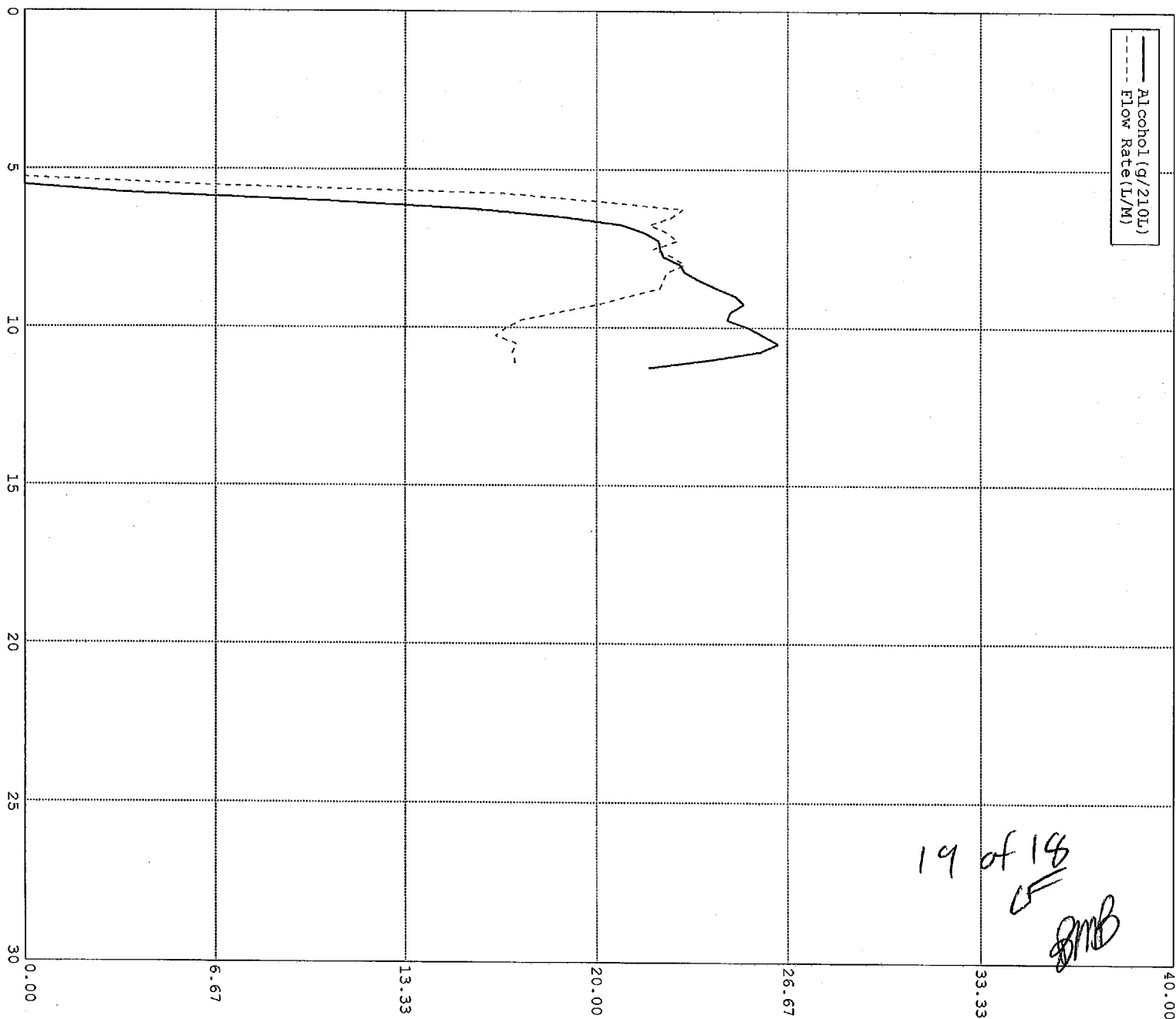
OPERATOR NAME:
 INVALID KNOWN MOUTH ETOH
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.50: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	14:56
BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.080	14:57
BLANK TEST	0.000	14:57
SUBJECT SAMPLE	Invalid	14:58

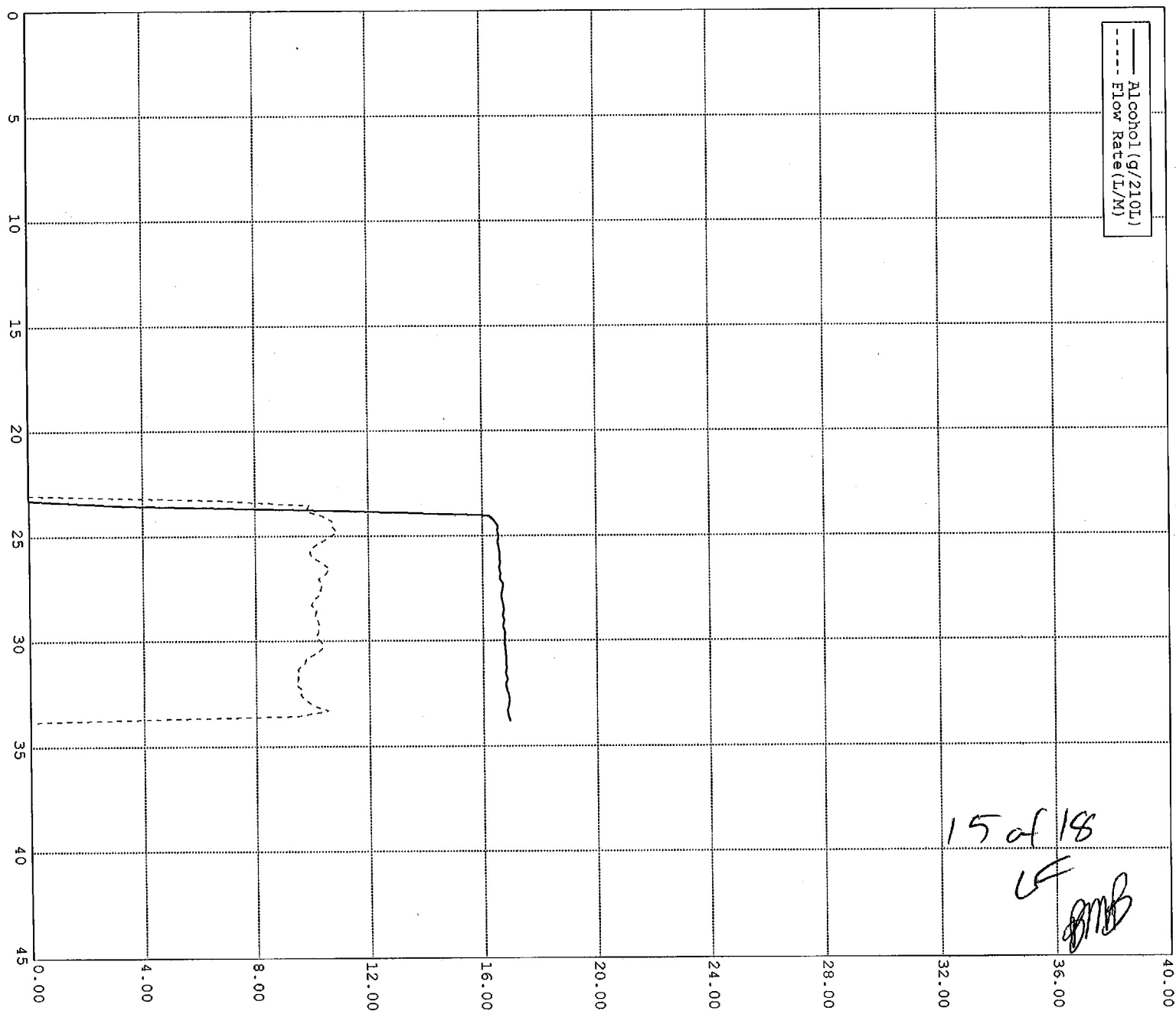
lv



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365Date: 03/25/2011
Time: 15:01:15SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME: ETIHA/01
INTERFERENCE ~~ETIHA/01~~ 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 #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:02
BLANK TEST	0.000	15:02
INTERNAL STANDARD	VERIFIED	15:02
EXTERNAL STANDARD	0.079	15:02
BLANK TEST	0.000	15:03
SUBJECT SAMPLE	INTERFERENCE	15:04

Lu

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365

Date: 03/25/2011
Time: 15:08:24

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

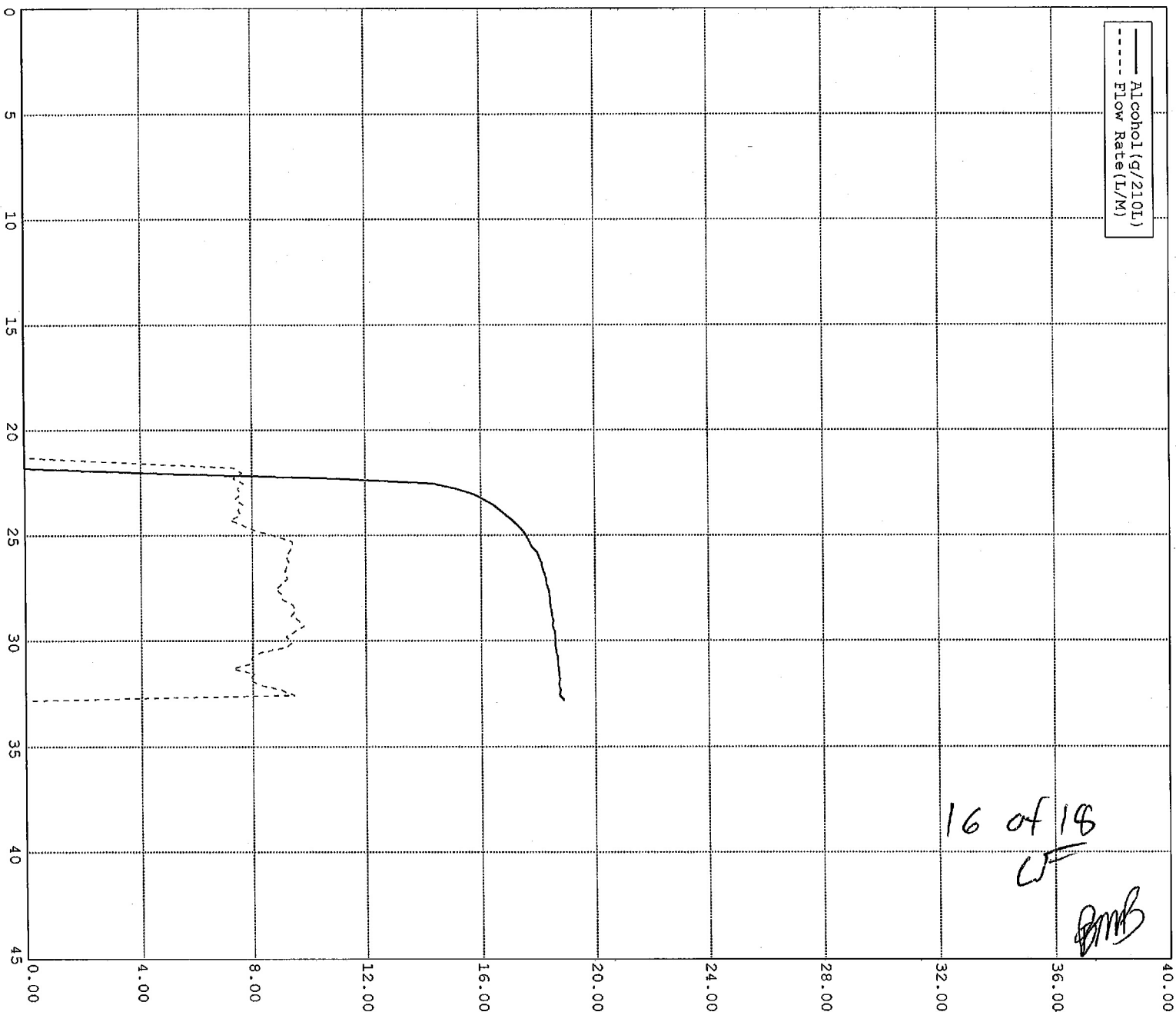
OPERATOR NAME:
INTERFERENCE ETHANOL AND ISOPROPYL
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.50: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:09
BLANK TEST	0.000	15:09
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.078	15:09
BLANK TEST	0.000	15:10
SUBJECT SAMPLE	INTERFERENCE	15:11

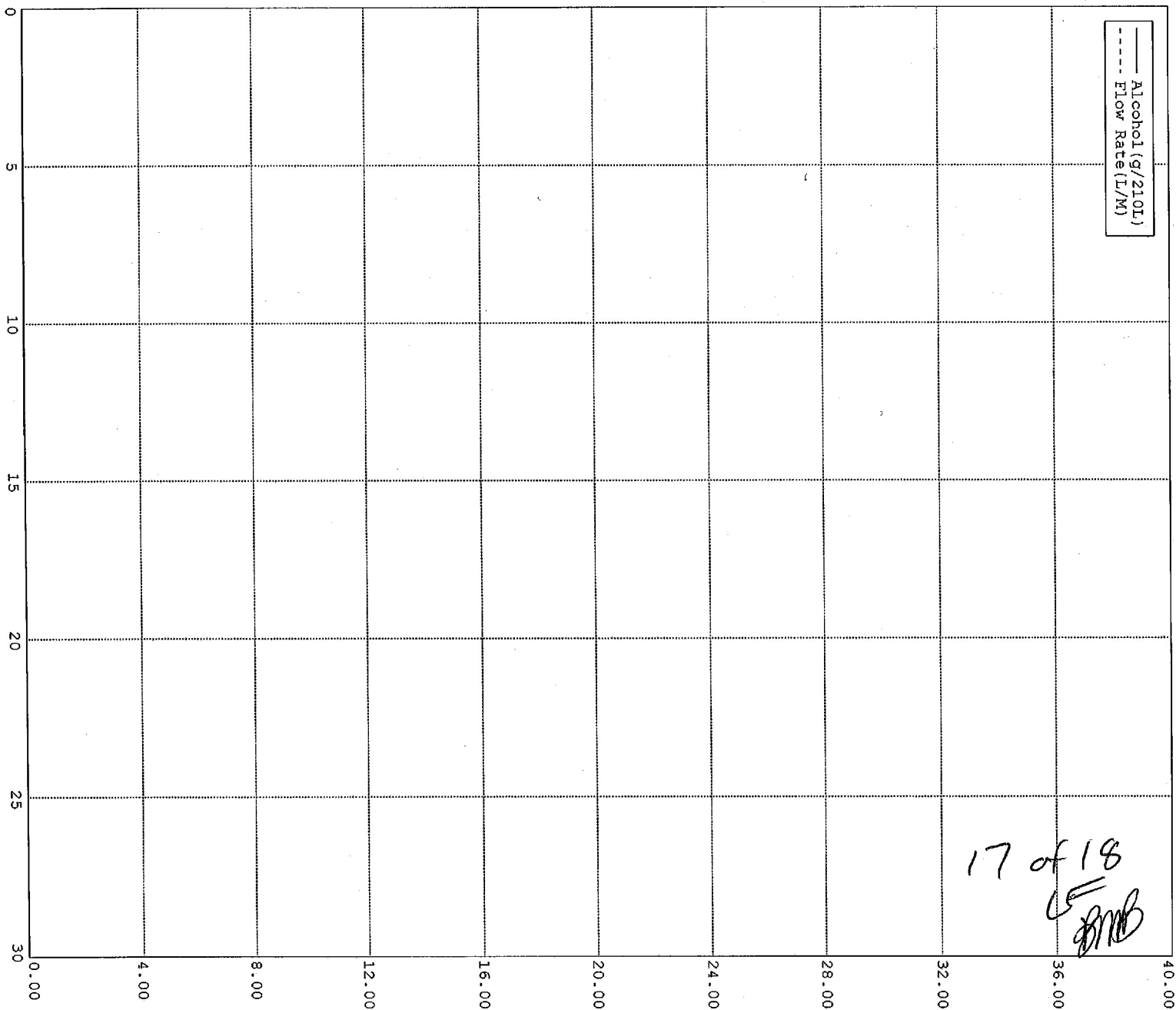
Alcohol (g/210L)
Flow Rate (L/M)



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100365Date: 03/25/2011
Time: 14:42:04SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
RADIO INTERFERENCE
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.51: 0.078
LOT #: 33609080A1
EXPIRATION: 01/01/2012DIAGNOSTIC CHECK
BLANK TEST PASSED 14:43
INTERNAL STANDARD 0.000 14:43
EXTERNAL STANDARD VERIFIED 14:43
0.080 14:43
BLANK TEST 0.000 14:44

RFI Detected



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100365

Date: 03/25/2011
 Time: 15:27:18

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 29.49: 0.078
 LOT #: 33609080A1
 EXPIRATION: 01/01/2012

DIAGNOSTIC CHECK	PASSED	15:28
BLANK TEST	0.000	15:28
INTERNAL STANDARD	VERIFIED	15:28
EXTERNAL STANDARD	0.078	15:28
BLANK TEST	0.000	15:29
SUBJECT SAMPLE	0.000	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.078	15:31
BLANK TEST	0.000	15:32

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