

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 01/27/2012
Effective: 01/27/2012

Version: DMCEF2012 R0
Status: Active

Instrument S/N 100406Analyst CRFStart Date 3/7/12

Ran USB Fixer, updated software to 2.0, ensured back ventilation
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 07511080A1 Exp 3/1/13iv. 0.100g/210L Mnf ILMO Lot 05611100A2 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 1110 Exp 7/13/131. Simulator S/N SD1202 Date Calibrated 8/17/11

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 5/24/12 ^{WF} 11/17/121. Simulator S/N DR6267 Date Calibrated 1/10/12d. RFI 6. Verify stylus is calibrated 10. Verification of Calibration 7. Verify card reader is functional 11. Non-Drinking Subject Test (attached) 8. Reset Options 12. Upload 9. Clear Memory 13. Update agency information and polling status in DM Host Calling Program MAEnd Date 3/9/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/07/2012
Time: 09:38:10

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 45.2°C PASSED

PUMP INFO
Flow Rate = 5.139 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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CAF

Technician Screen

DATAMASTER dnt: 100406

Date: 03/07/2012
Time: 9:55 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 44.6°C

Current Barometer 29.8 in
Volume (Ltr) 1.52

Settings
Lamp: 1.76 V
Bias: 90 V
Cooler: 1.82 V
Chopper: 529 Hz

Voltages (V)
Flow: 1.06 V
Detector: -0.037 V

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CAF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dnt: 100406

Date: 10/05/2011
Time: 09:07:21

Ca	=	0.1000			
CAL	=	0.988221	0.800	<=	CAL < 1.200
b1	=	0.0007	0.0000	<=	b1 < 0.0040
b2	=	0.0060	0.0010	<=	b2 < 0.0100
b3	=	0.0003	0.0000	<=	b3 < 0.0040
Xq	=	0.1008	0.0500	<=	Xq < 0.2000
a21	=	1.202874	1.050	<=	a21 < 1.300
a31	=	0.480296	0.300	<=	a31 < 0.800

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CAF

SUBJECT TEST

Alaska Department of Public Safety
 DATABASE# 100406

Date: 03/07/2012
 Time: 10:30:47

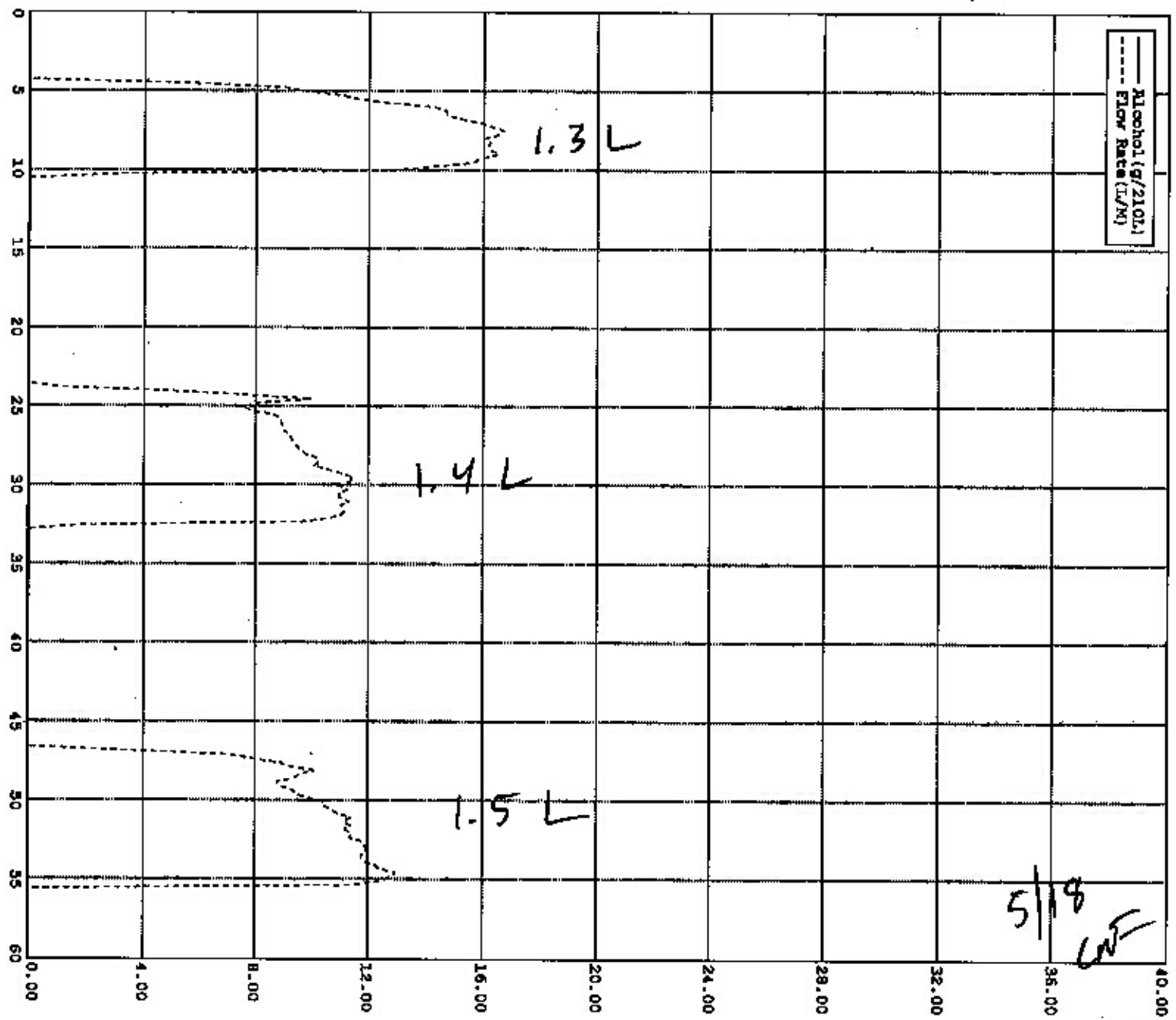
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 25-81: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	10:31
INTERNAL STANDARD	VERIFIED	10:32
EXTERNAL STANDARD	0.078	10:32
BLANK TEST	0.000	10:33
SUBJECT SAMPLE	0.000	10:34
BLANK TEST	0.000	10:35
EXTERNAL STANDARD	0.078	10:35
BLANK TEST	0.000	10:36



LINEARITY CHECK

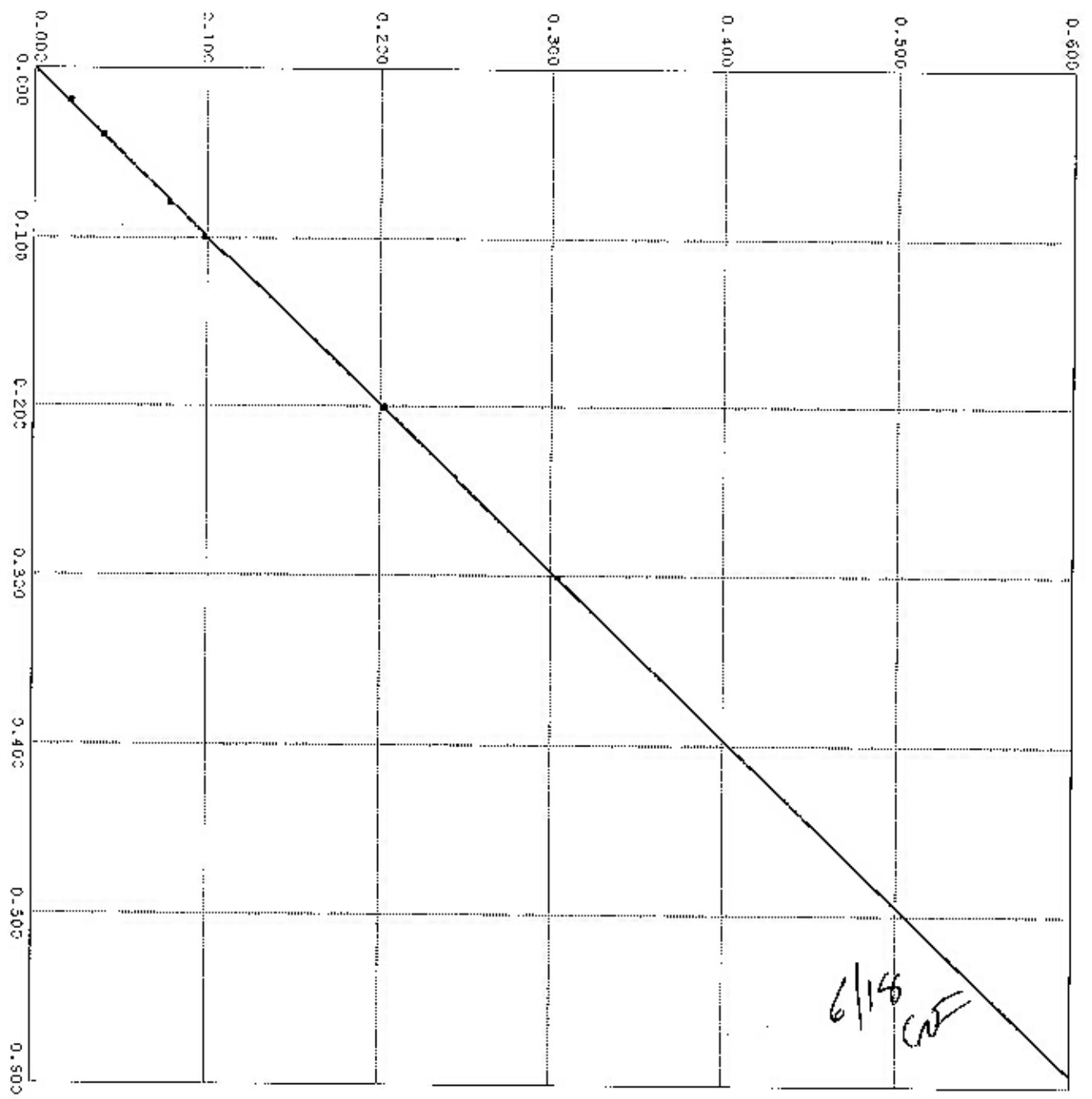
Alaska Department of Public Safety
 DATAMASTER dmt: 100406

Date: 03/07/2012
 Time: 10:44:54

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0209	0.0002
0.039	0.0404	0.0002
0.079	0.0787	0.0002
0.099	0.0995	0.0002
0.200	0.2030	0.0002
0.300	0.3045	0.0005

SLOPE = 1.012303
 R² = 0.999897



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dnt: 100406

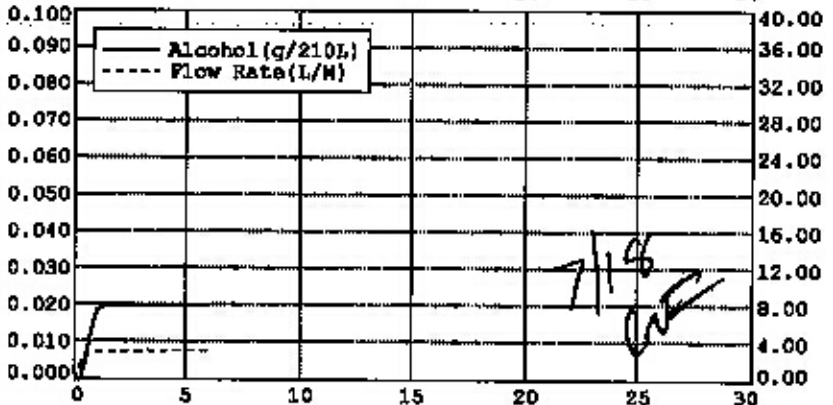
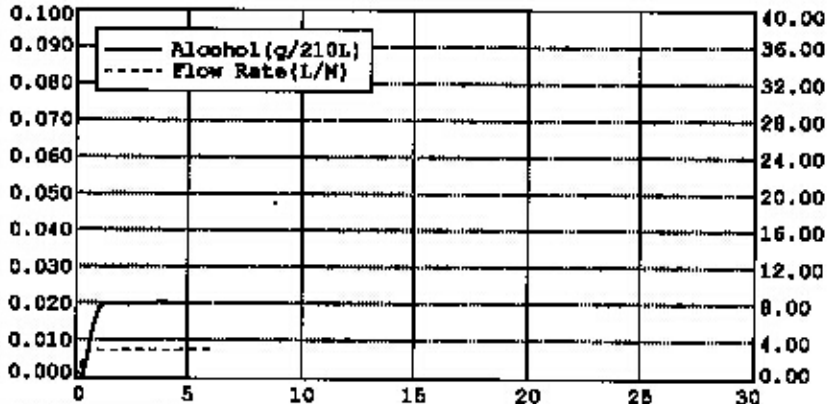
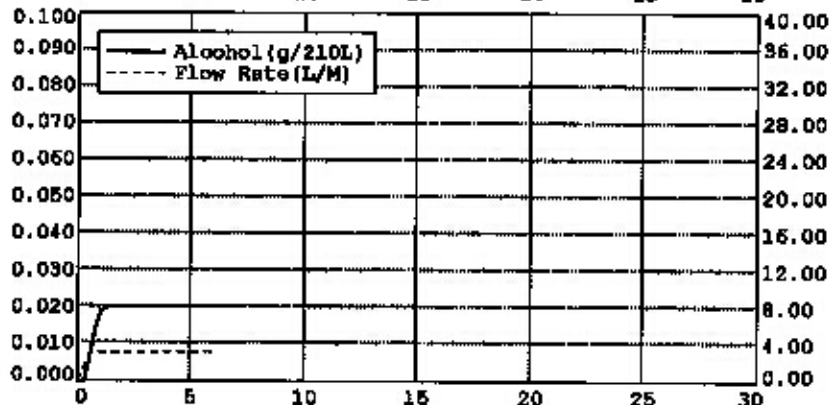
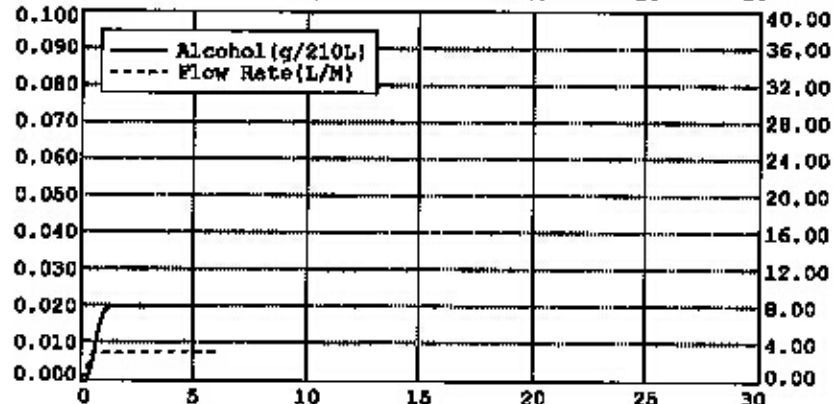
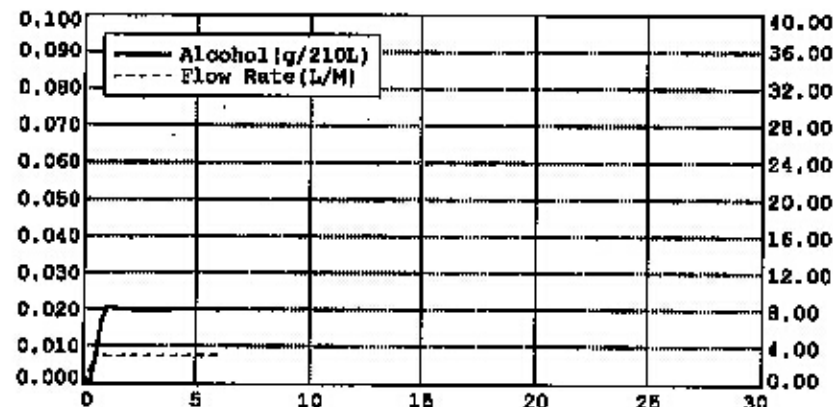
Date: 03/07/2012
 Time: 10:44:56

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.81: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:46
INTERNAL STANDARD	VERIFIED	10:46
EXTERNAL STANDARD	0.020	10:47
BLANK TEST	0.000	10:48
EXTERNAL STANDARD	0.021	10:48
BLANK TEST	0.000	10:49
EXTERNAL STANDARD	0.020	10:49
BLANK TEST	0.000	10:50
EXTERNAL STANDARD	0.021	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.020	10:51
BLANK TEST	0.000	10:52

Average = 0.0209
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

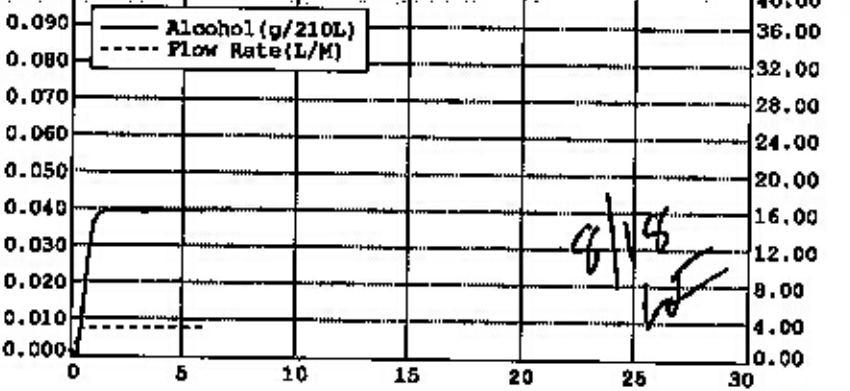
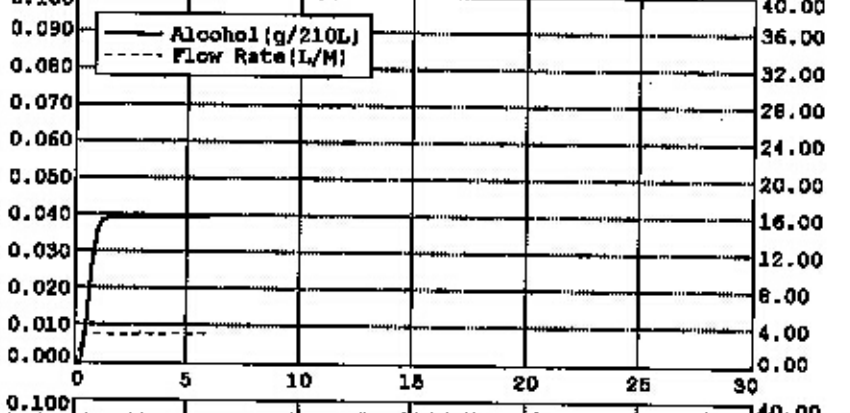
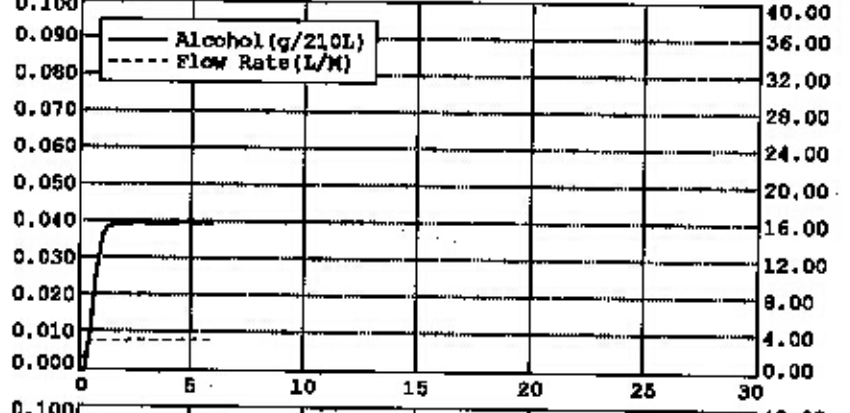
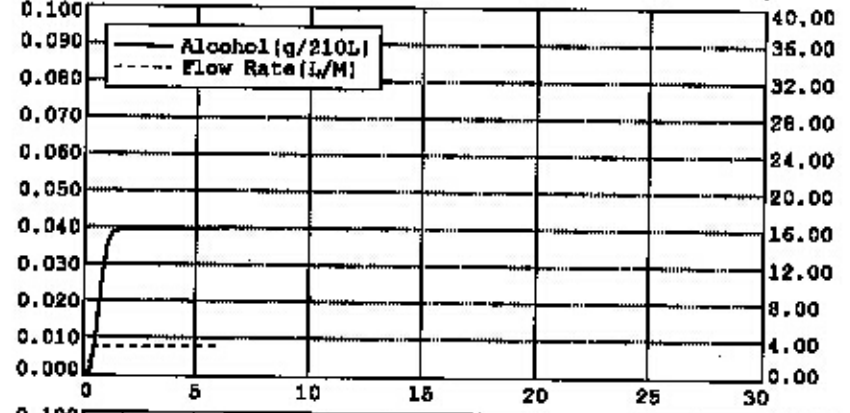
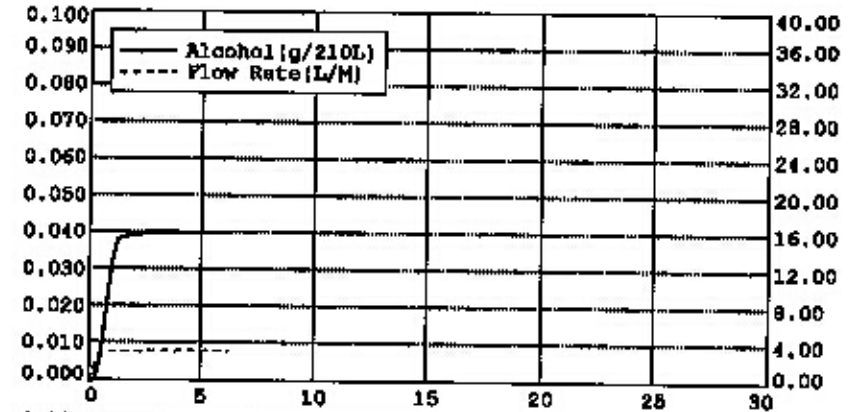
Alaska Department of Public Safety
DATAMASTER dnt: 100406

Date: 03/07/2012
Time: 10:54:02

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.80: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	10:55
INTERNAL STANDARD	VERIFIED	10:55
EXTERNAL STANDARD	0.040	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.040	10:56
BLANK TEST	0.000	10:57
EXTERNAL STANDARD	0.040	10:57
BLANK TEST	0.000	10:58
EXTERNAL STANDARD	0.040	10:58
BLANK TEST	0.000	10:59
EXTERNAL STANDARD	0.040	10:59
BLANK TEST	0.000	11:00

Average = 0.0404
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dat: 100406

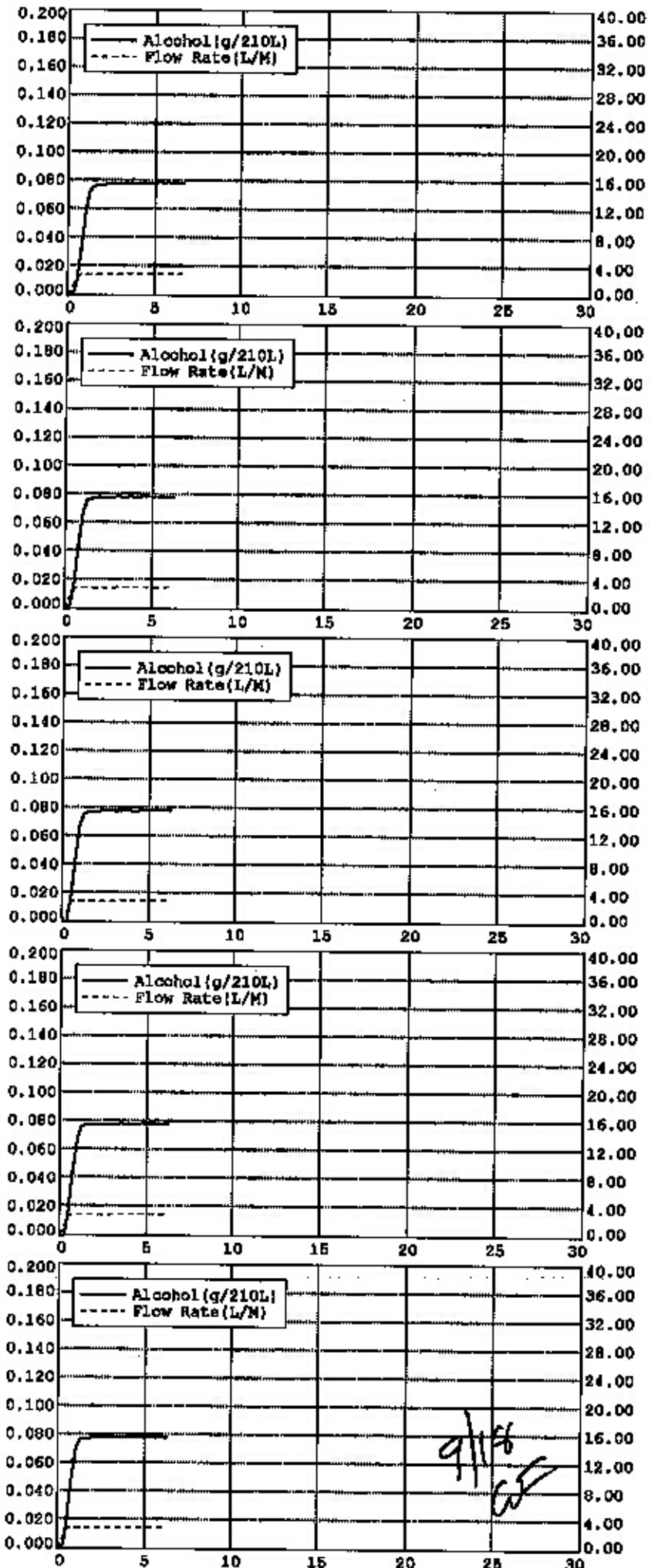
Date: 03/07/2012
 Time: 11:01:31

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.81: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:02
INTERNAL STANDARD	VERIFIED	11:02
EXTERNAL STANDARD	0.079	11:03
BLANK TEST	0.000	11:04
EXTERNAL STANDARD	0.078	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.078	11:05
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.078	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.078	11:07
BLANK TEST	0.000	11:08

Average = 0.0787
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

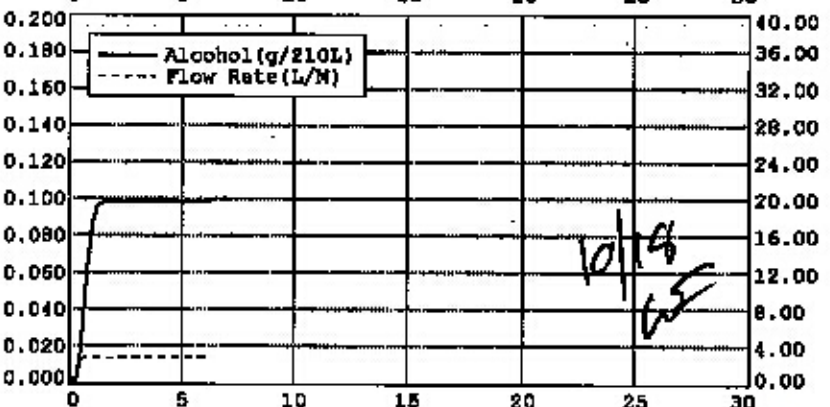
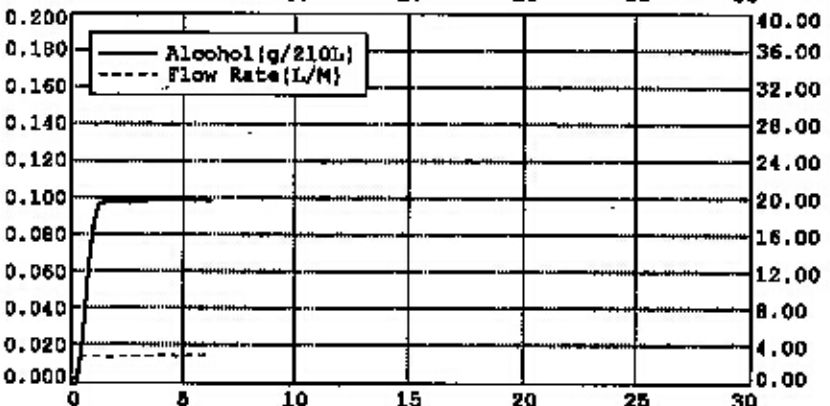
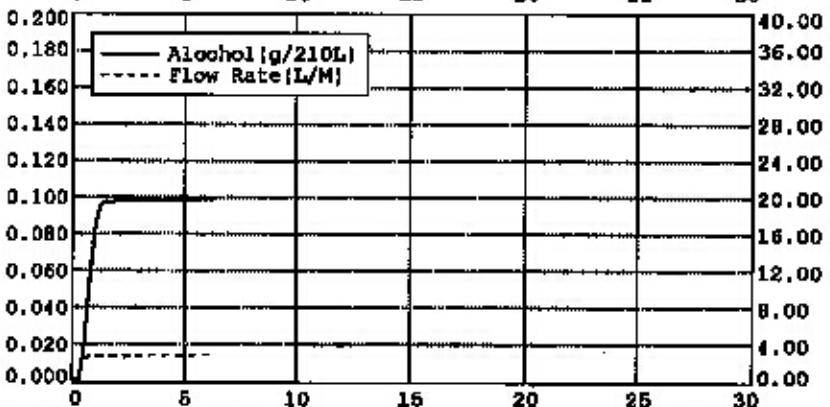
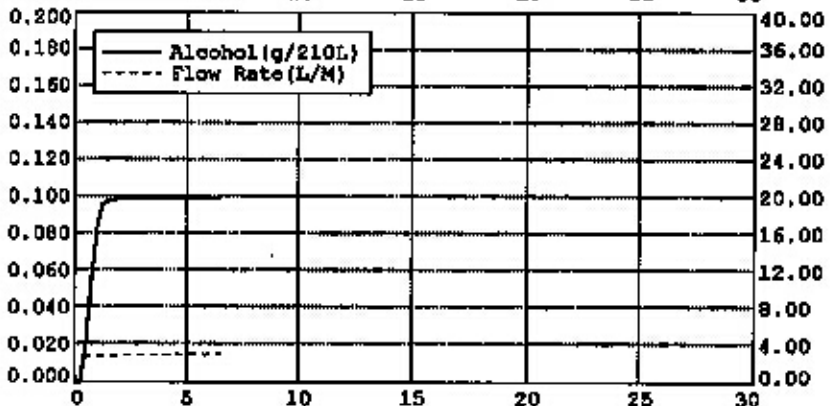
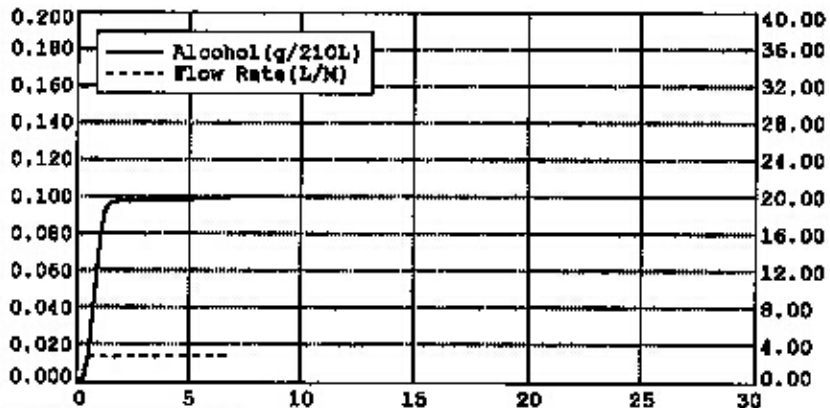
Alaska Department of Public Safety
DATAMASTER dmt: 100406

Date: 03/07/2012
Time: 11:08:54

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.100
TARGET AT 29.81; 0.099
LOT #: 05611100A2
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:10
INTERNAL STANDARD	VERIFIED	11:10
EXTERNAL STANDARD	0.099	11:10
BLANK TEST	0.000	11:11
EXTERNAL STANDARD	0.099	11:11
BLANK TEST	0.000	11:12
EXTERNAL STANDARD	0.099	11:12
BLANK TEST	0.000	11:13
EXTERNAL STANDARD	0.099	11:13
BLANK TEST	0.000	11:14
EXTERNAL STANDARD	0.099	11:15
BLANK TEST	0.000	11:15

Average = 0.0995
Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

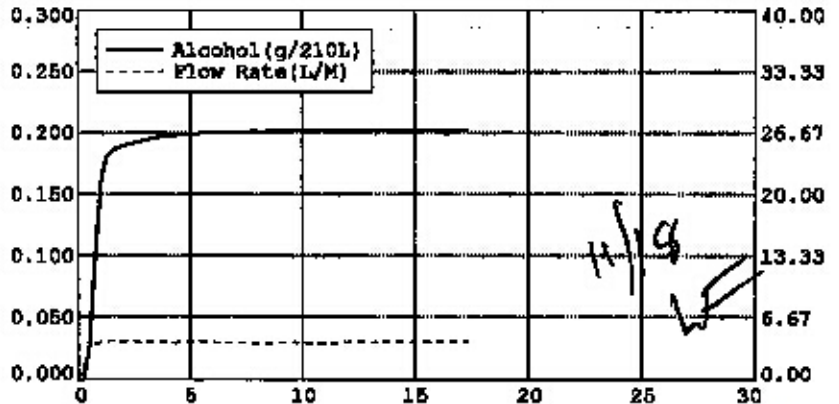
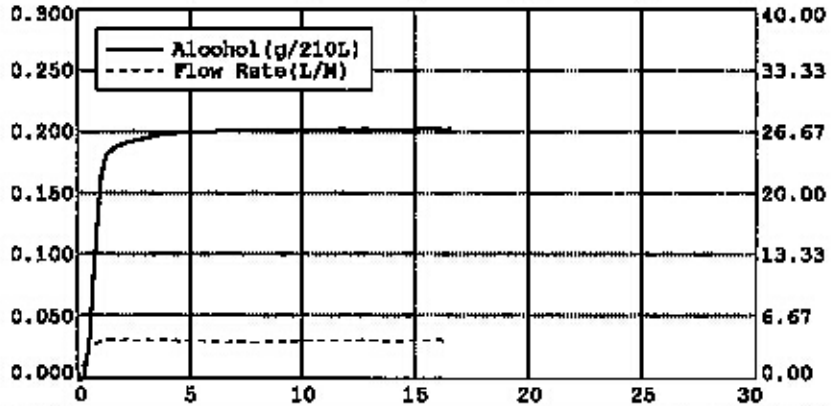
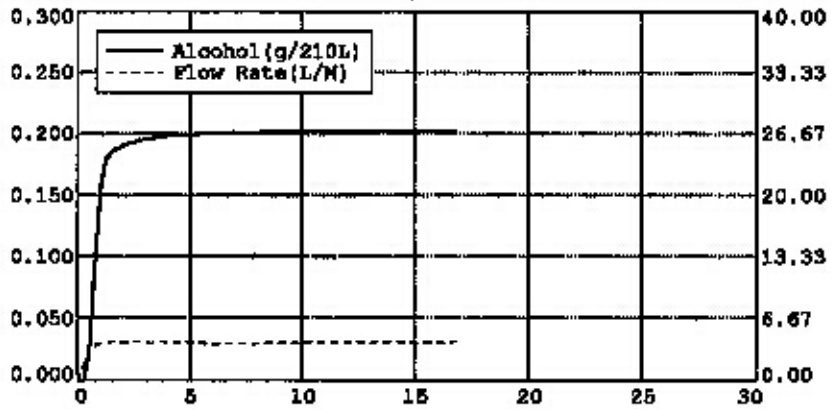
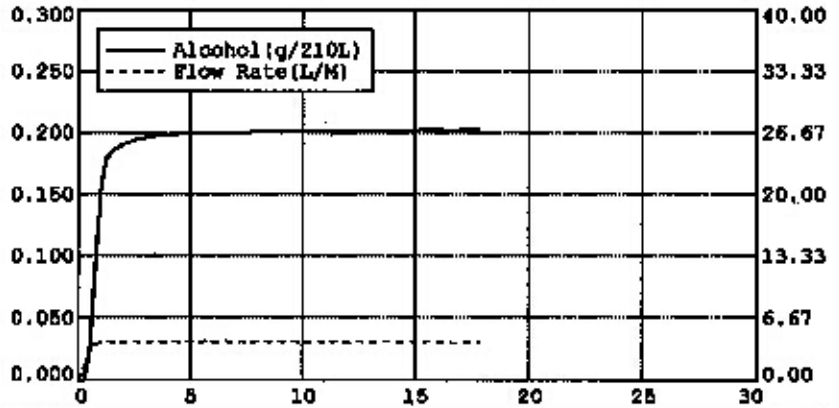
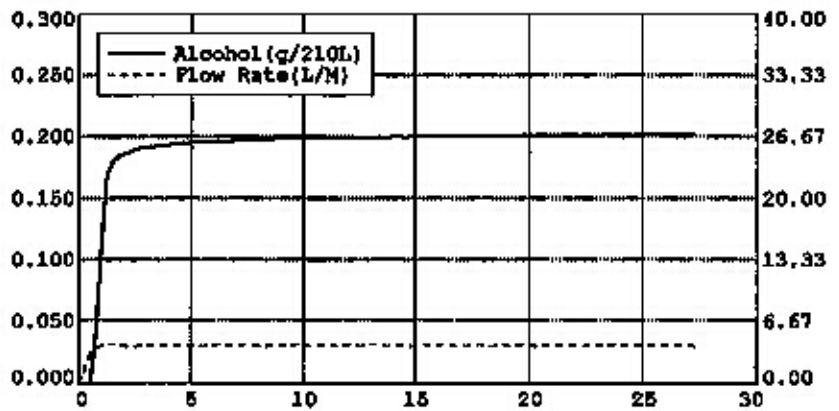
Alaska Department of Public Safety
DATAMASTER dat: 100406

Date: 03/07/2012
Time: 11:17:26

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.200
LOT #: 11120
EXPIRATION: 07/19/2013

BLANK TEST	0.000	11:18
INTERNAL STANDARD	VERIFIED	11:18
EXTERNAL STANDARD	0.202	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.203	11:20
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.203	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.203	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.203	11:24
BLANK TEST	0.000	11:25

Average = 0.2030
Std Dev = 0.0002



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt 100406

Date: 03/07/2012
Time: 11:28:15

EXTERNAL STANDARD INFORMATION

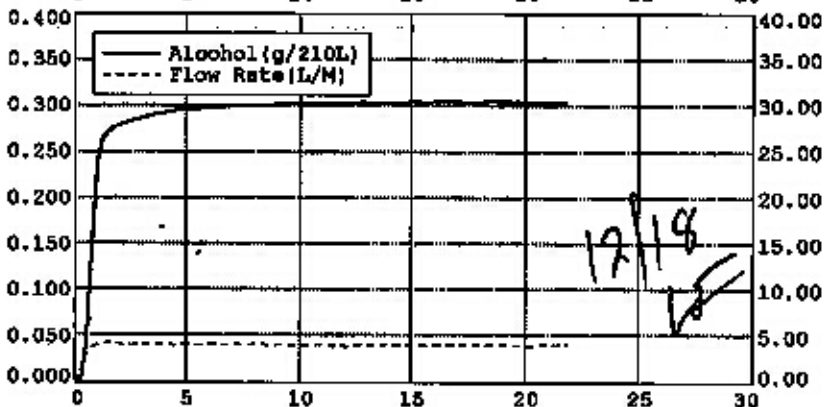
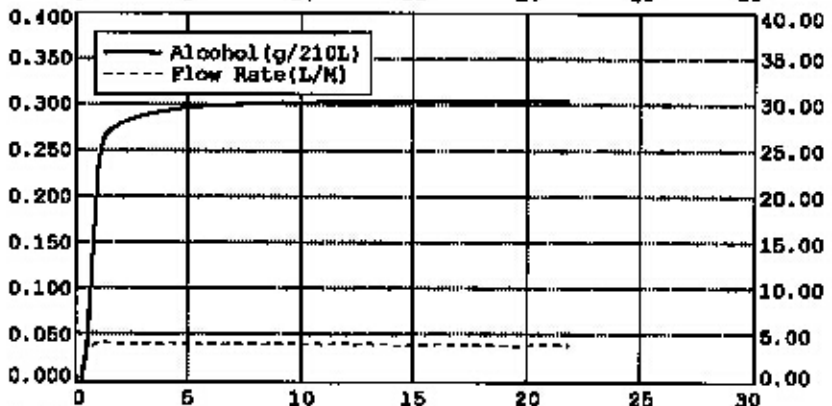
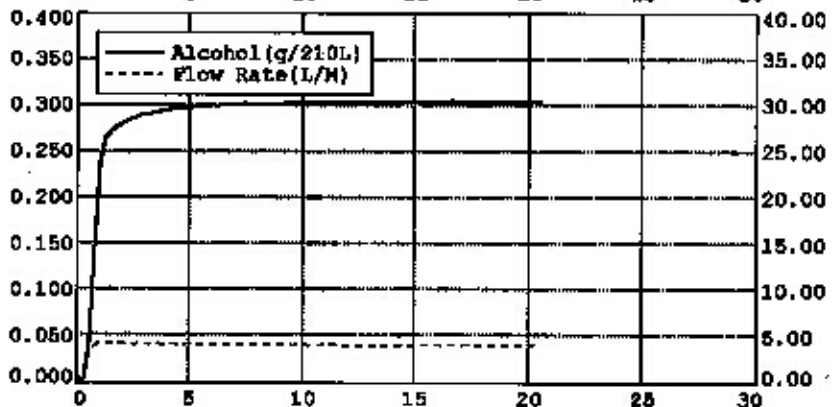
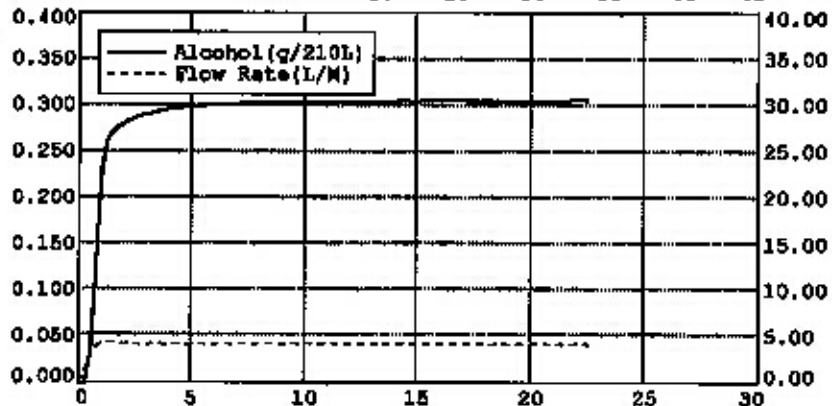
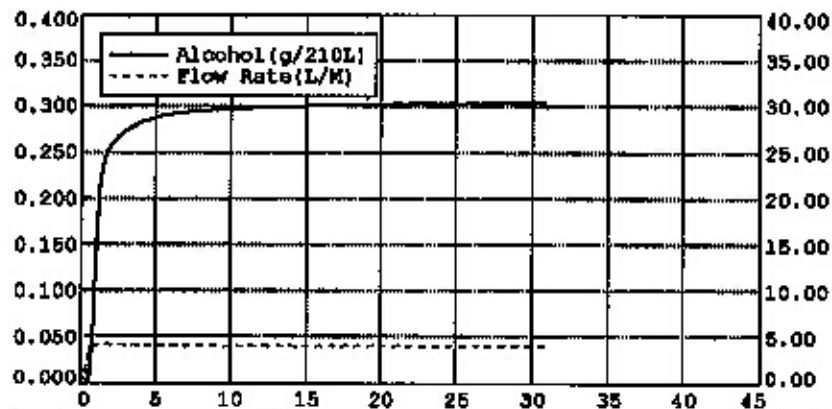
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	11:29
INTERNAL STANDARD	VERIFIED	11:29
EXTERNAL STANDARD	0.303	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.305	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.304	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.304	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.305	11:35
BLANK TEST	0.000	11:36

Average = 0.3045
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100406

Date: 03/07/2012
Time: 15:15:06

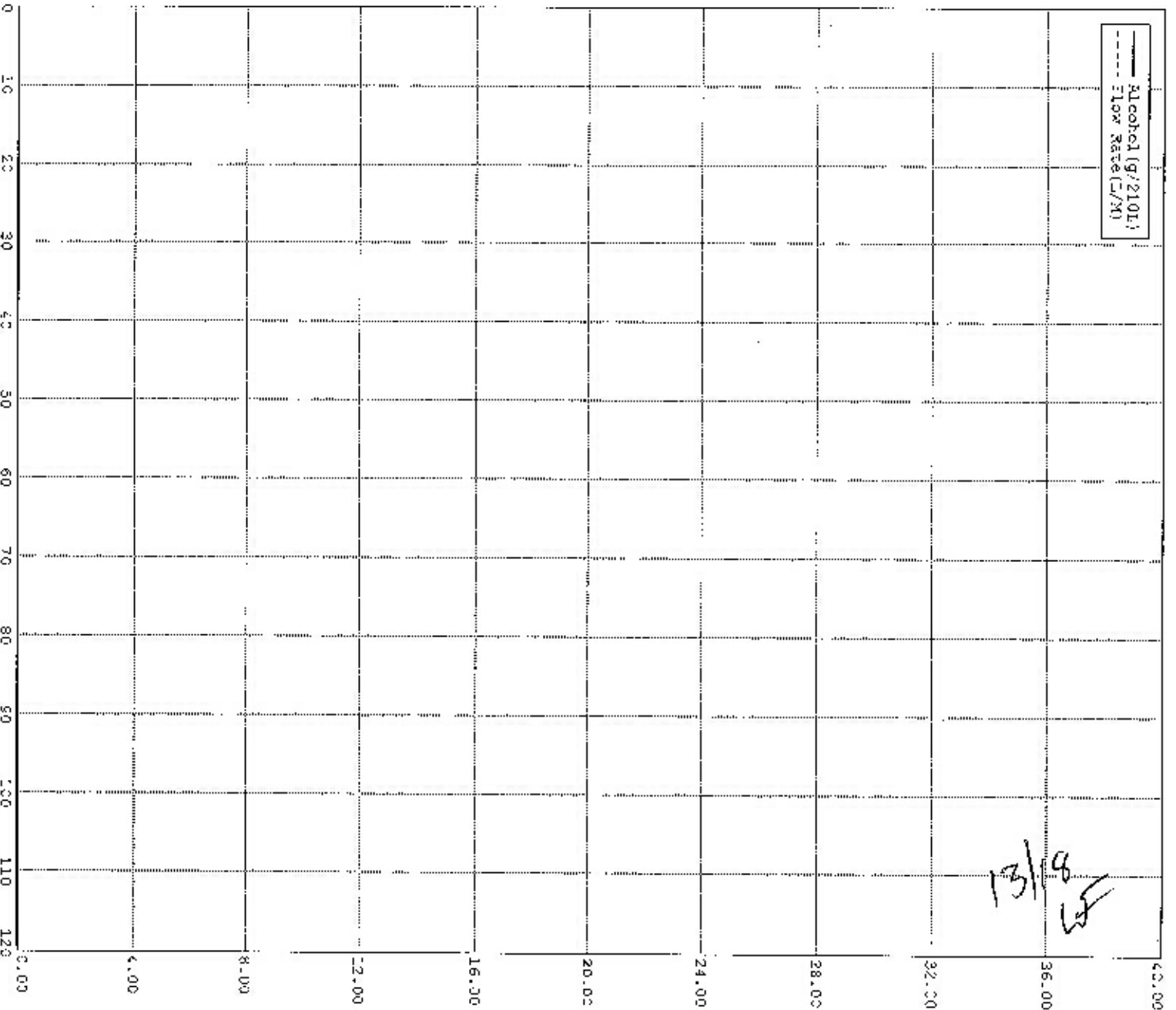
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.80: 0.079
SOF #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:16
BLANK TEST	0.000	15:16
INTERNAL STANDARD	VERIFIED	15:16
EXTERNAL STANDARD	0.078	15:16
BLANK TEST	0.000	15:17
SUBJECT SAMPLE	INCOMPLETE	15:19



SUBJECT TEST

Alaska Department of Public Safety
PARAMETER dmc: 100406

Date: 03/07/2012
Time: 15:23:21

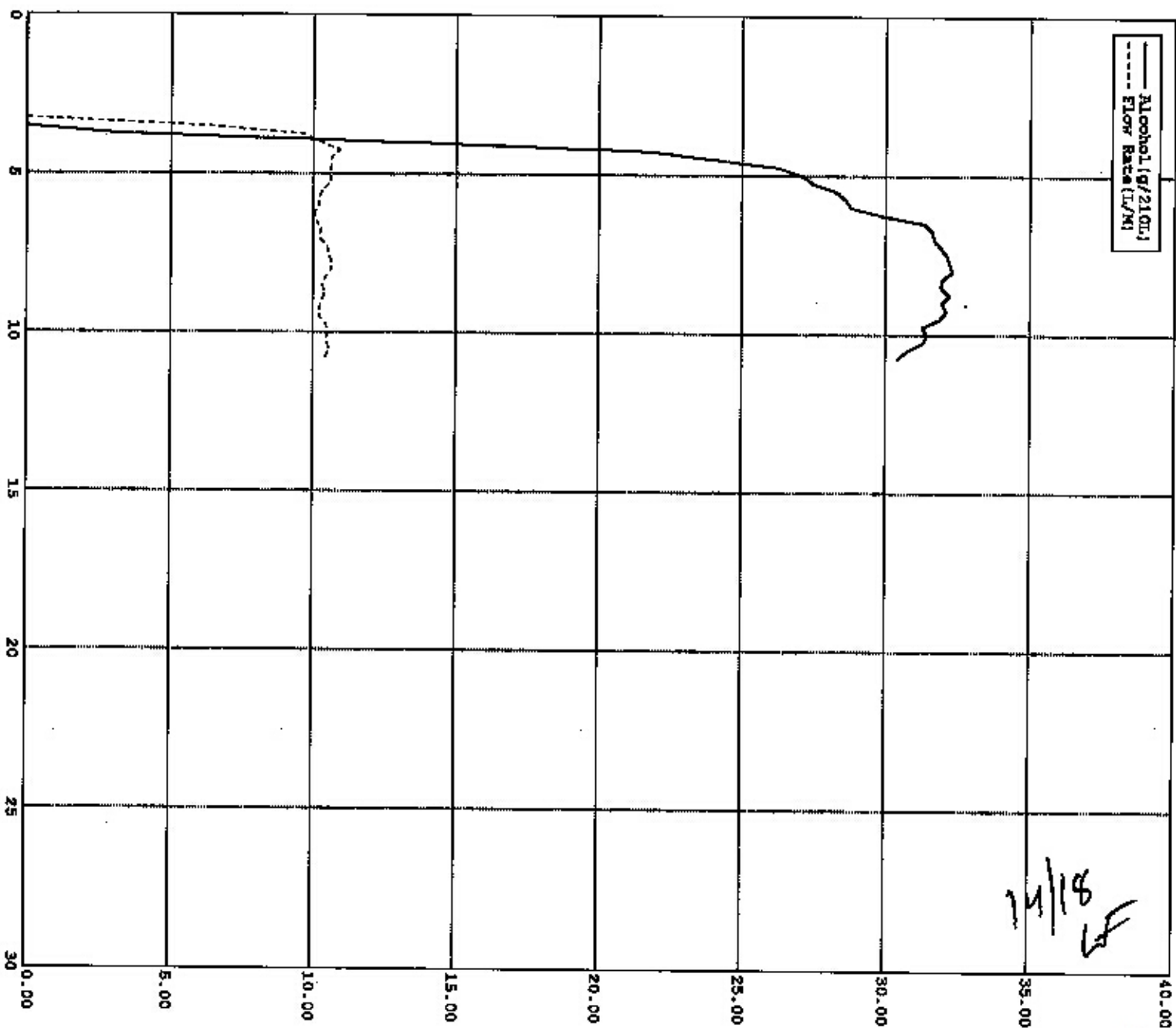
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INVALID MOBILE EVOH
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 #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:26
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.078	15:26
BLANK TEST	0.000	15:27
SUBJECT SAMPLE	INVALID	15:28



SUBJECT TEST

Alaska Department of Public Safety
DATABASE# dnt: 100406

Date: 03/07/2012
Time: 15:39:54

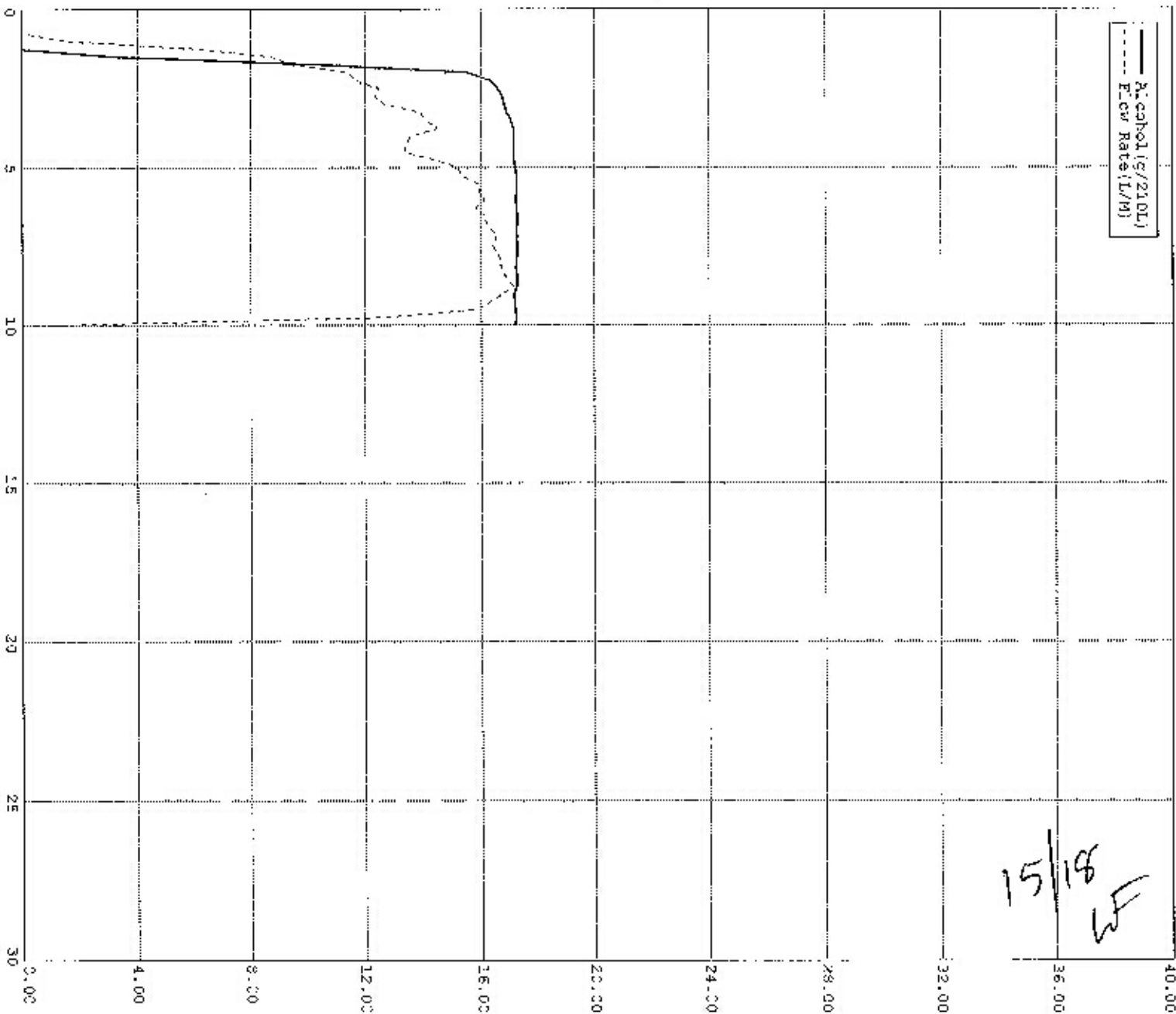
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.078	15:45
BLANK TEST	0.000	15:46
SUBJECT SAMPLE	INTERFERENCE	15:47



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100406

Date: 03/07/2012
Time: 15:51:17

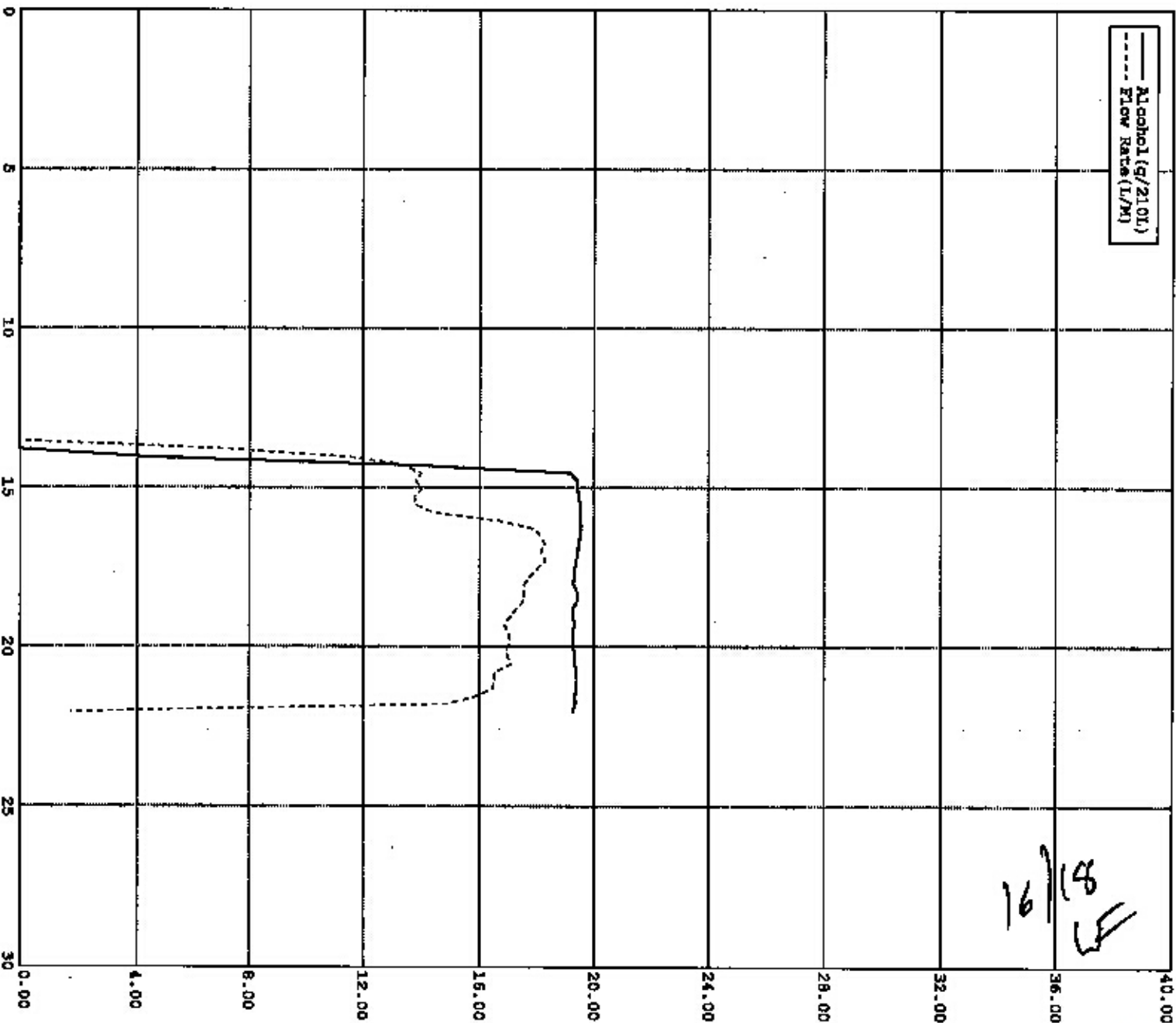
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INTERFERENCE FROM 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 #: 07511082A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:53
BLANK TEST	0.000	15:53
INTERNAL STANDARD	VERIFIED	15:53
EXTERNAL STANDARD	0.078	15:54
BLANK TEST	0.000	15:55
SUBJECT SAMPLE	INTERFERENCE	15:55



SUBJECT TEST

Alaska Department of Public Safety
 LABORATORY dmt: 100406

Date: 03/07/2012
 Time: 16:02:33

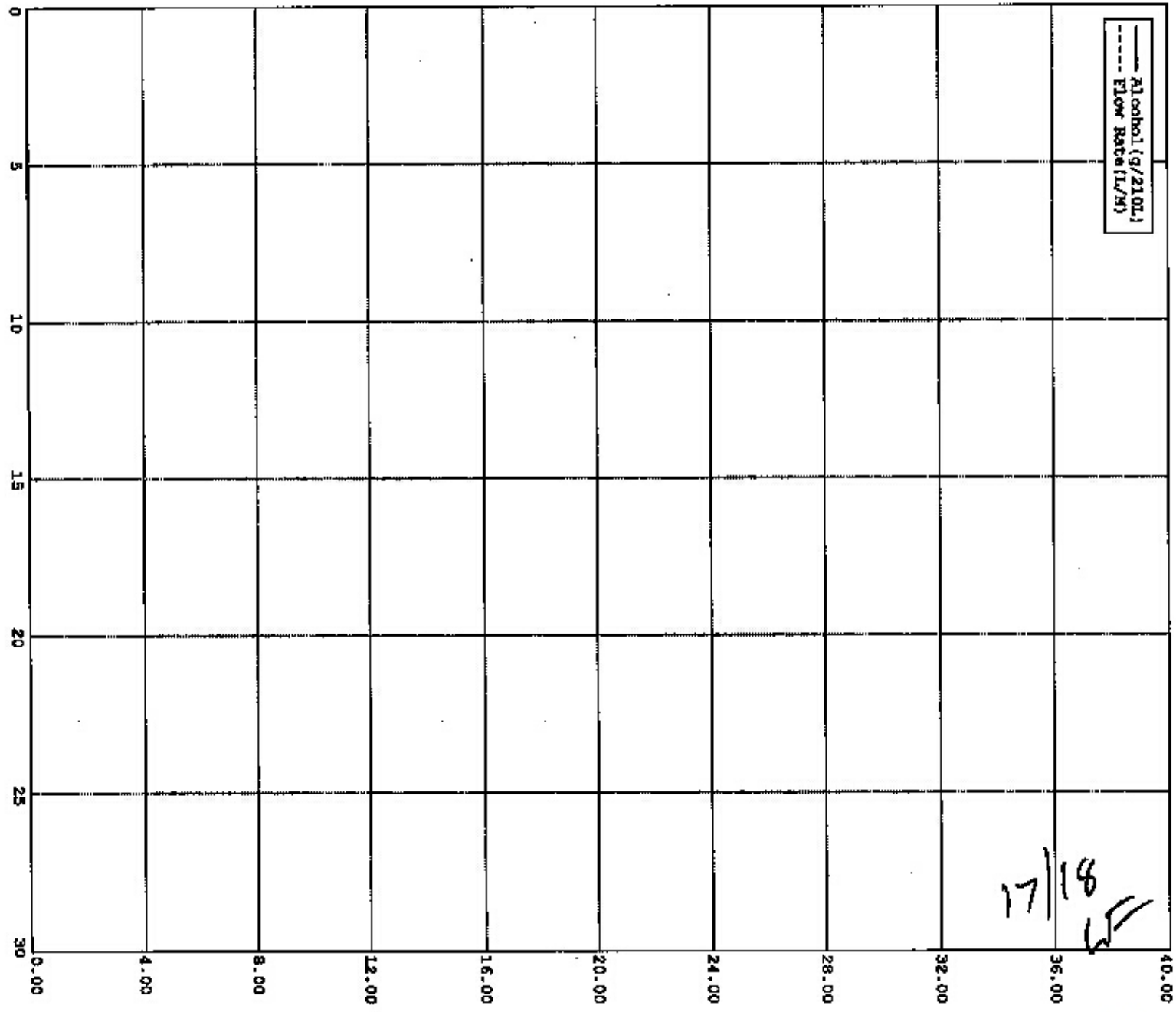
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

INTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
 BLANK TEST PASSED 16:14
 INTERNAL STANDARD 0.000 16:15
 INTERNAL STANDARD VERIFIED 16:15
 INTERNAL STANDARD 0.078 16:15
 BLANK TEST 0.000 16:16
 RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DAWMMASTER db#: 100406

Date: 03/08/2012
 Time: 08:59:59

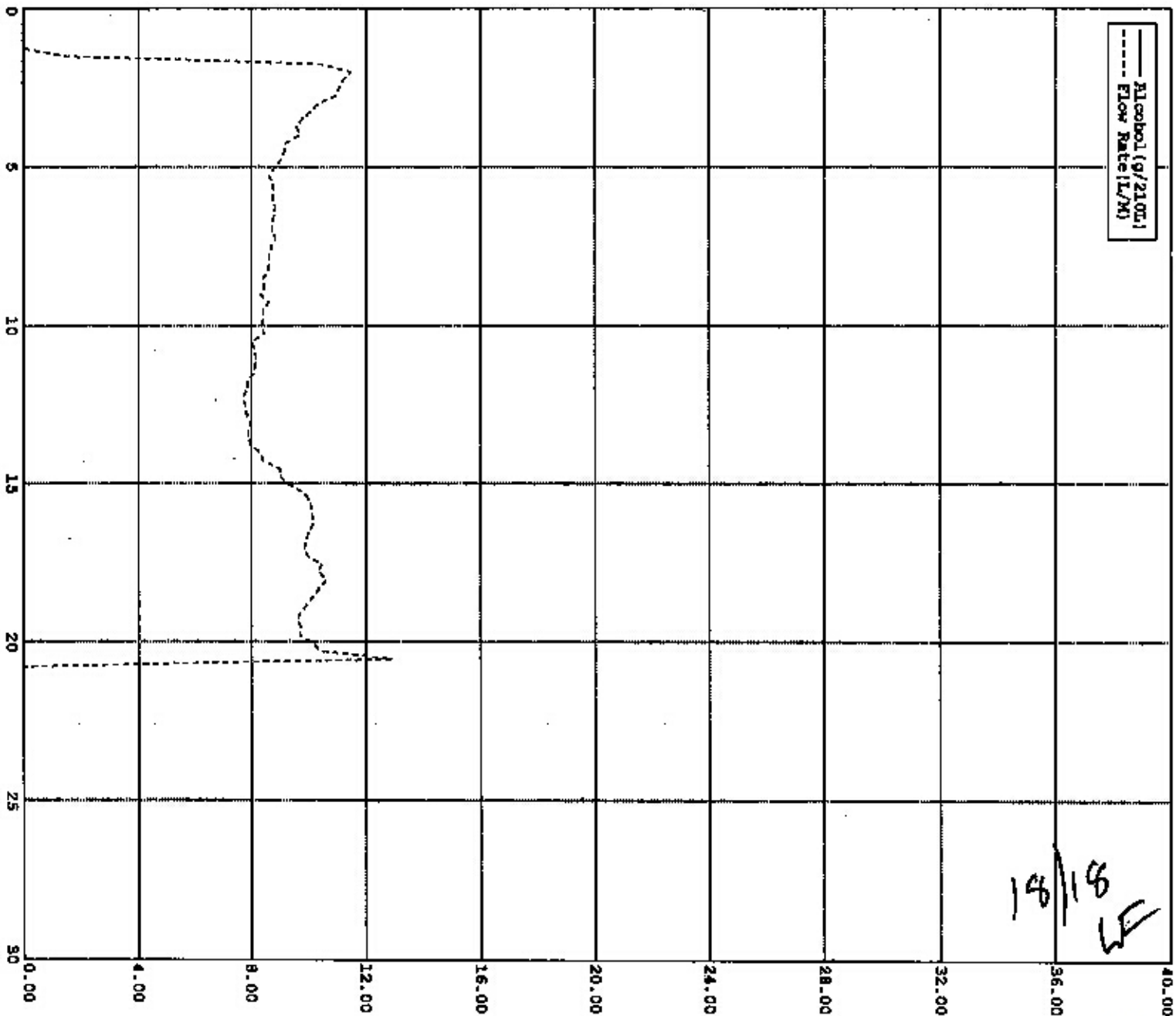
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7134

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

EXTERNAL STANDARD INFORMATION
 MONTVAL: 0.080
 TARGET AL: 29.45: 0.078
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	09:08
BLANK TEST	0.000	09:08
INTERNAL STANDARD	VERIFIED	09:08
EXTERNAL STANDARD	0.077	09:08
BLANK TEST	0.000	09:09
BLANK TEST	0.000	09:10
SUBJECT SAMPLE	0.000	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.078	09:11
BLANK TEST	0.000	09:12



Final page for report

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2/18/2014