

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012
Effective: 04/04/2012

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100405 Analyst CRF Start Date 1/15/13
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 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 07012080A1 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 DR4176 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 1/17/13

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dnt: 100405

Date: 01/15/2013
Time: 10:10:43

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 = 5.306 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

2/19
LF

Technician Screen

DATAMASTER dmt: 100405

Date: 01/15/2013
Time: 10:35 AM

Temperatures (°C)

Sample Cell: 49.4°C
Breath Tube: 44.9°C

Current Barometer 29.8 in
Volume (Ltr) 1.52

Settings

Lamp: 1.69 V
Bias: 81 V
Cooler: 1.71 V
Chopper: 537 Hz

Voltages (V)

Flow: 1.05 V
Detector: -0.061 V

3/19
LF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100405

Date: 05/03/2011
Time: 11:47:16

Ca = 0.1000
CAL = 0.983919 0.800 <= CAL < 1.200
b1 = 0.0003 0.0000 <= b1 < 0.0040
b2 = 0.0028 0.0010 <= b2 < 0.0100
b3 = 0.0000 0.0000 <= b3 < 0.0040
Xg = 0.0855 0.0500 <= Xg < 0.2000
a21 = 1.121109 1.050 <= a21 < 1.300
a31 = 0.488526 0.300 <= a31 < 0.800

4/19
LF

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100405

Date: 01/15/2013
 Time: 10:39:33

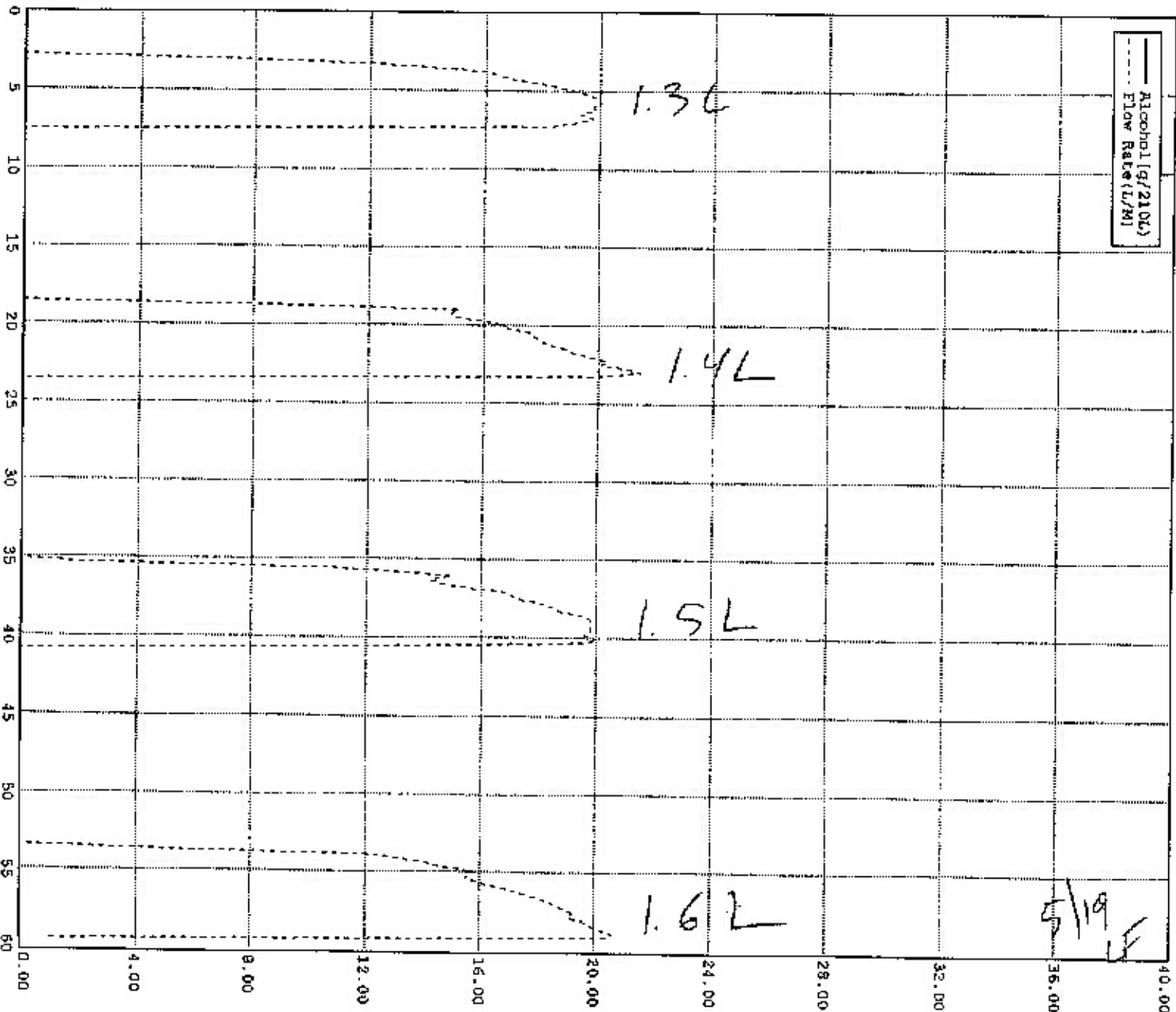
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.84: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:47
BLANK TEST	0.000	10:47
INTERNAL STANDARD	VERIFIED	10:47
EXTERNAL STANDARD	0.079	10:48
BLANK TEST	0.000	10:49
SUBJECT SAMPLE	0.000	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.079	10:51
BLANK TEST	0.000	10:52



LINEARITY CHECK

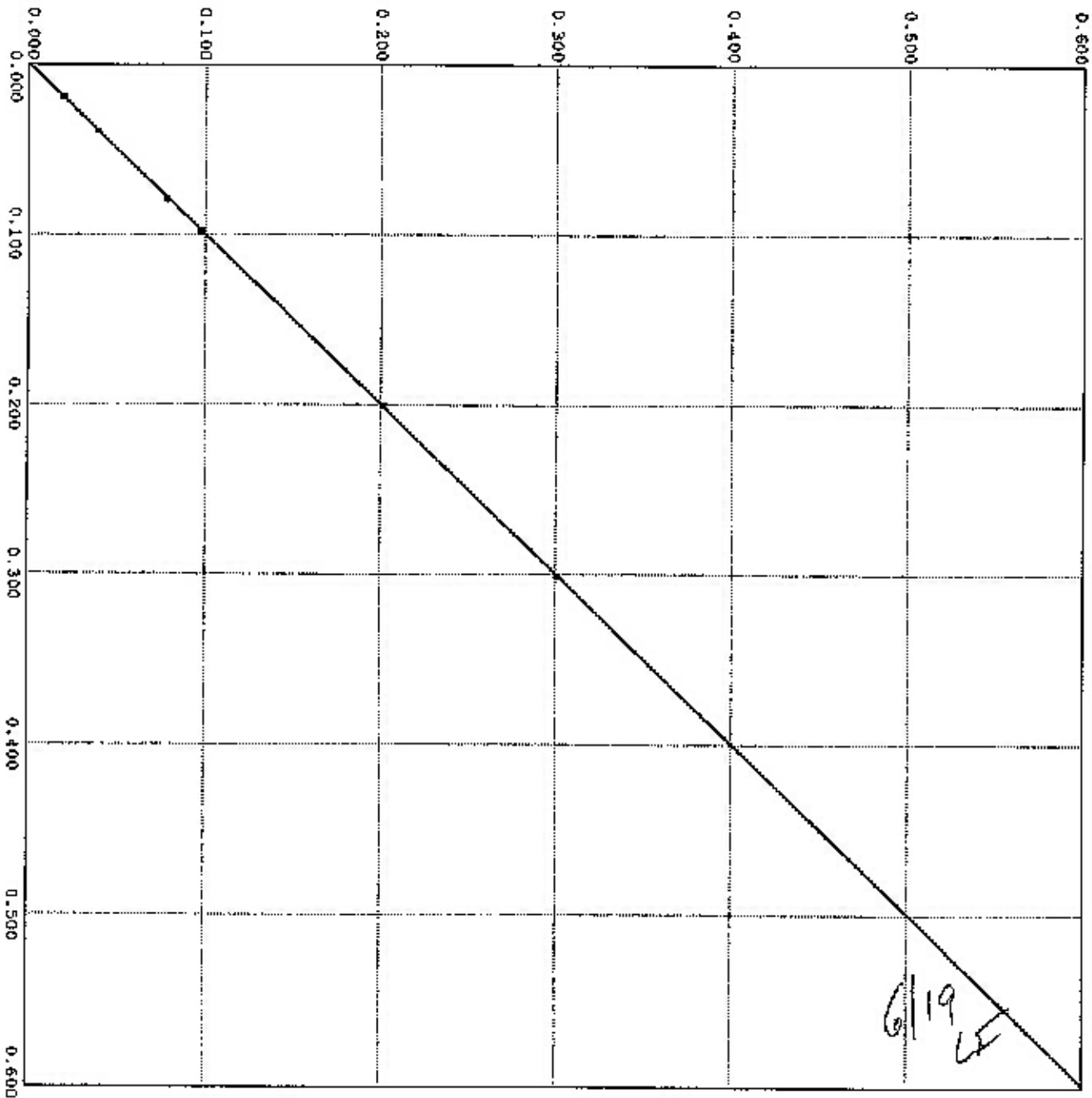
Alaska Department of Public Safety
 DATAMASTER dnt: 100405

Date: 01/16/2013
 Time: 12:38:37

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0204	0.0002
0.039	0.0402	0.0002
0.079	0.0789	0.0002
0.098	0.0984	0.0003
0.200	0.2025	0.0003
0.300	0.3012	0.0008

SLOPE = 1.002723
 R² = 0.999939



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

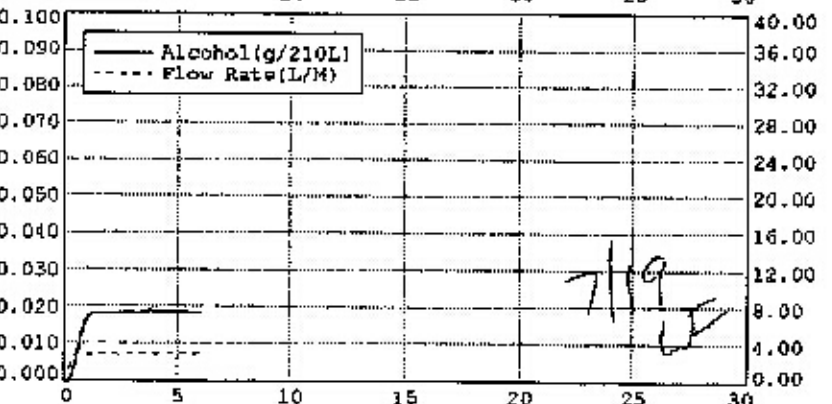
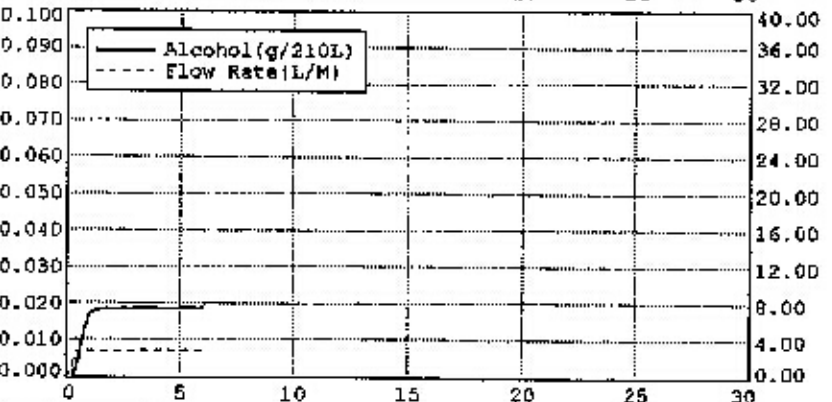
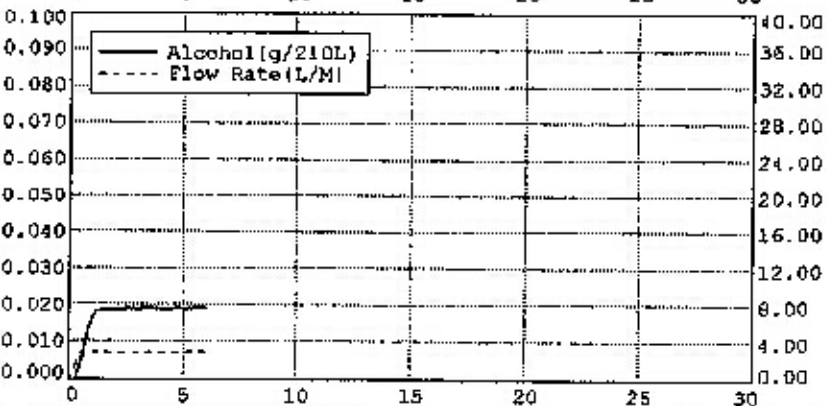
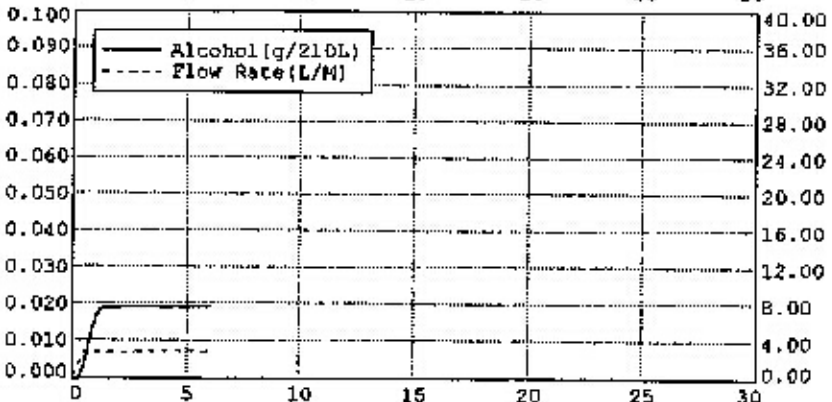
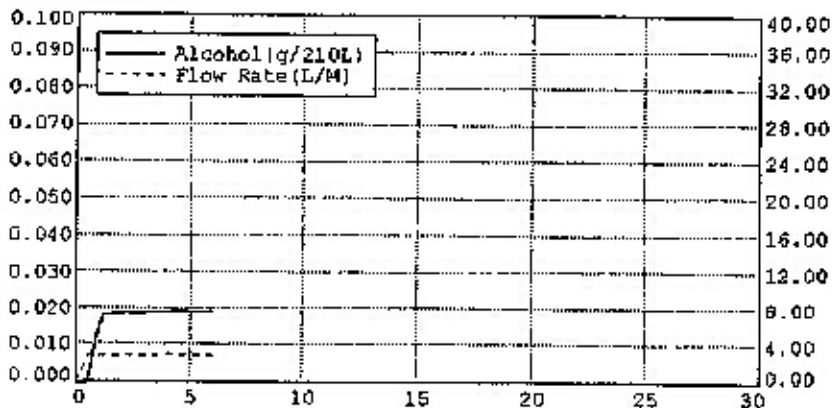
Date: 01/16/2013
 Time: 12:38:39

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.59: 0.019
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:40
INTERNAL STANDARD	VERIFIED	12:40
EXTERNAL STANDARD	0.020	12:40
BLANK TEST	0.000	12:41
EXTERNAL STANDARD	0.020	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.020	12:42
BLANK TEST	0.000	12:43
EXTERNAL STANDARD	0.020	12:43
BLANK TEST	0.000	12:44
EXTERNAL STANDARD	0.020	12:44
BLANK TEST	0.000	12:45

Average = 0.0204
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

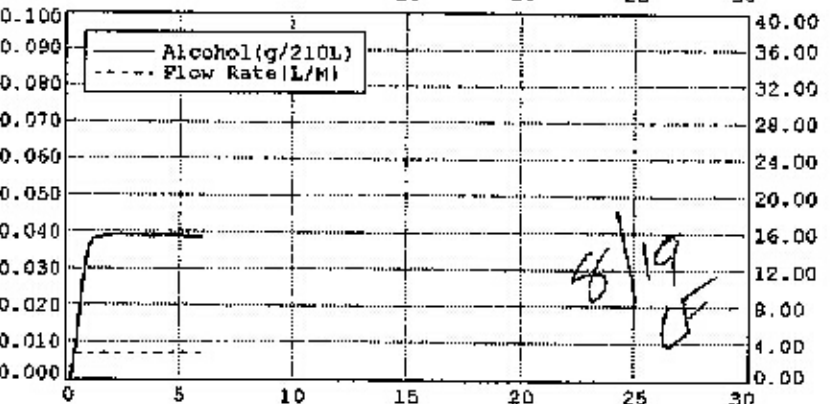
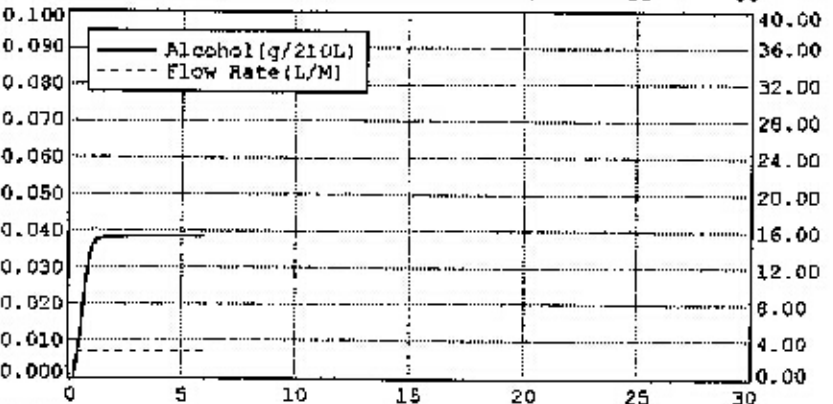
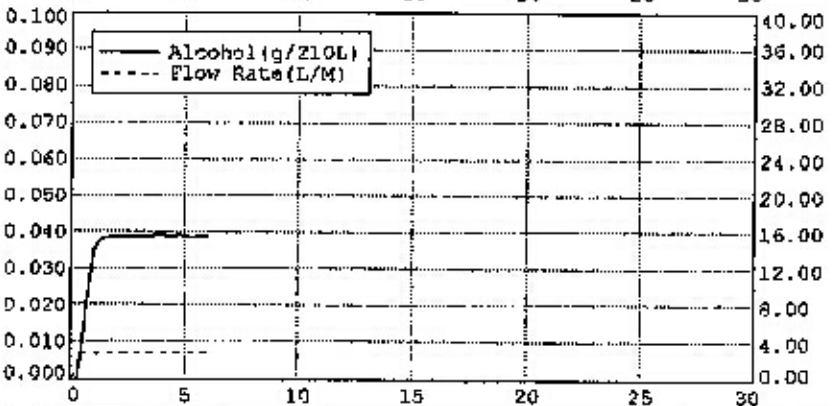
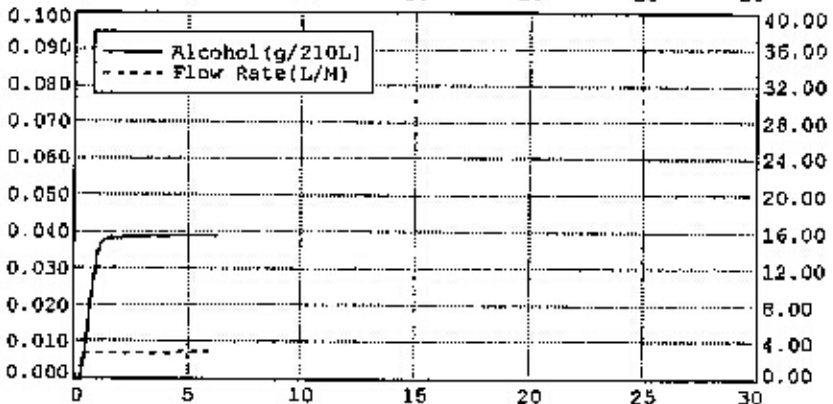
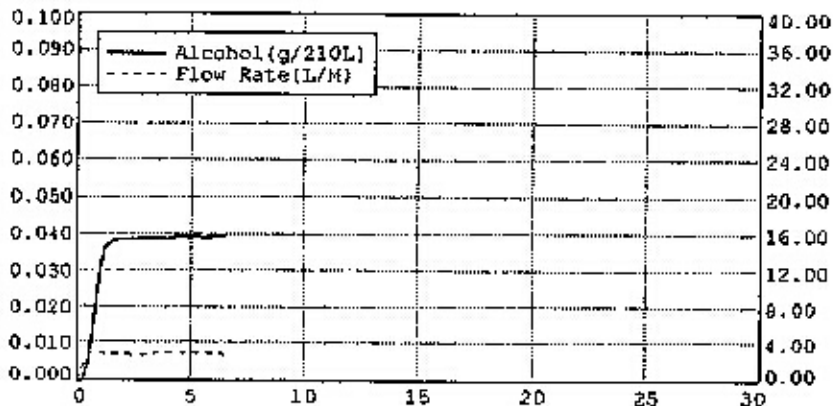
Date: 01/16/2013
 Time: 12:46:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.58: 0.039
 LOT #: D7611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:47
EXTERNAL STANDARD	0.040	12:48
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.040	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.040	12:50
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.039	12:51
BLANK TEST	0.000	12:52
EXTERNAL STANDARD	0.040	12:52
BLANK TEST	0.000	12:53

Average = 0.0402
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dnt: 100405

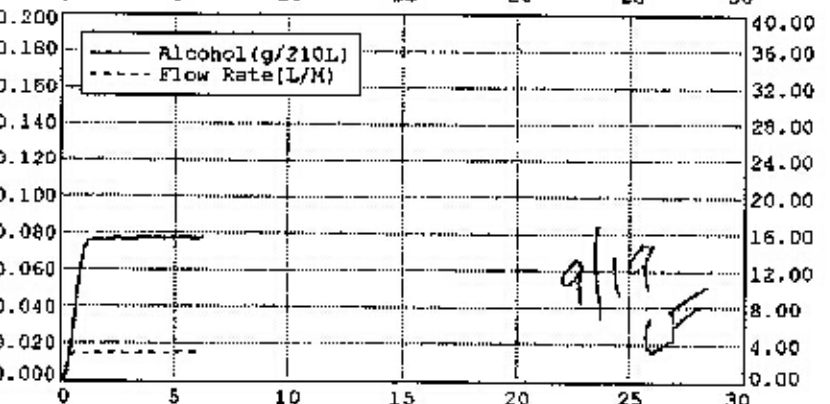
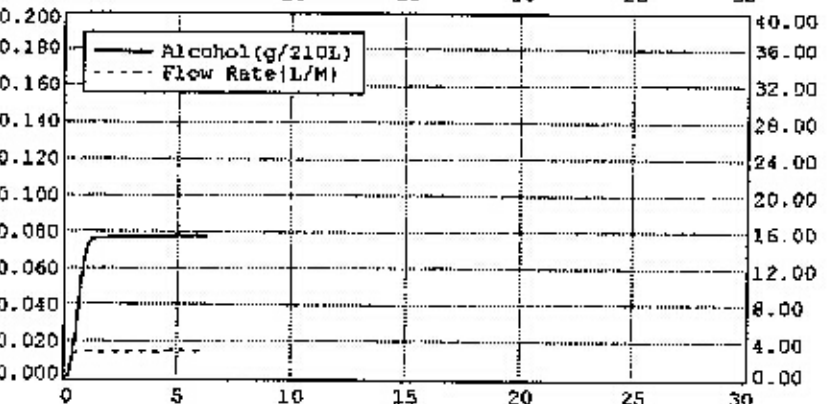
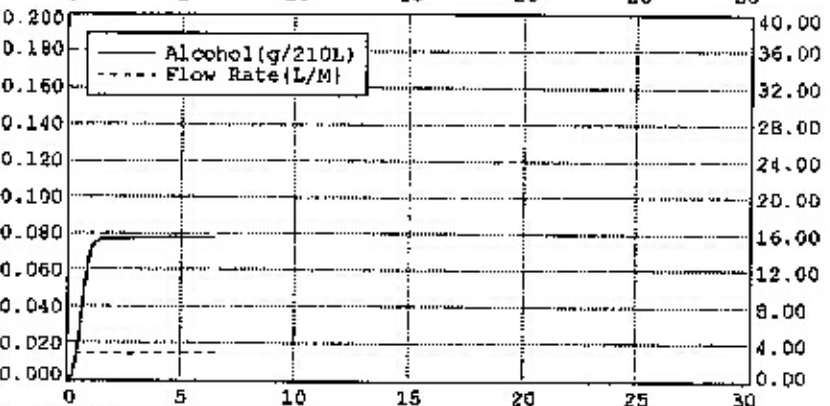
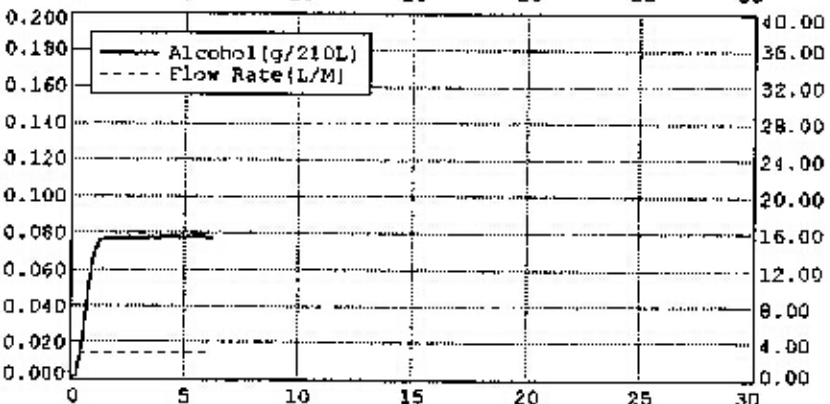
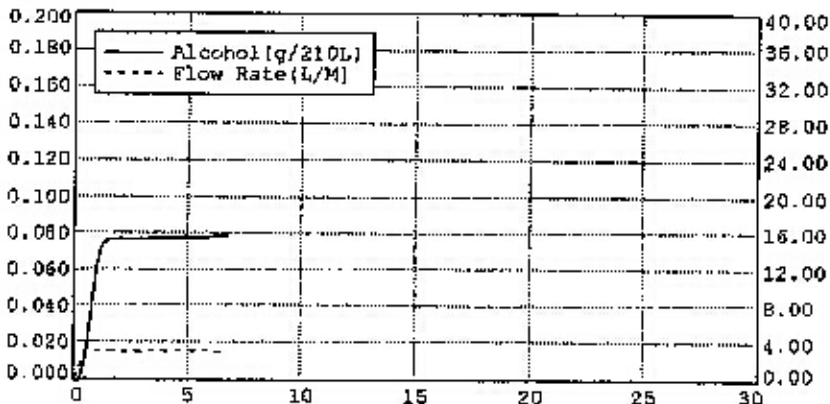
Date: 01/16/2013
 Time: 12:55:38

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.59: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	12:56
INTERNAL STANDARD	VERIFIED	12:57
EXTERNAL STANDARD	0.079	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.078	12:58
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.079	12:59
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.078	13:00
BLANK TEST	0.000	13:01
EXTERNAL STANDARD	0.078	13:01
BLANK TEST	0.000	13:02

Average = 0.0789
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

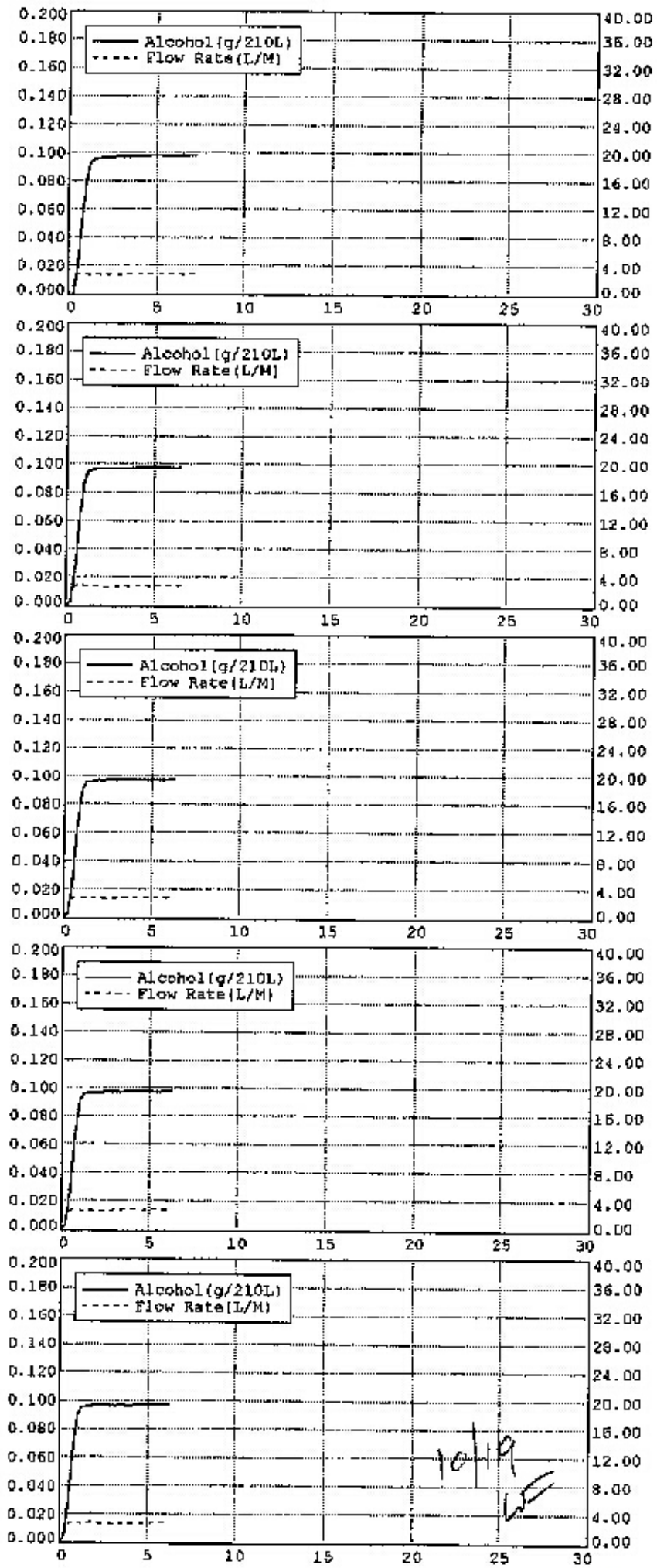
Date: 01/16/2013
 Time: 13:04:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.58: 0.098
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:05
INTERNAL STANDARD	VERIFIED	13:05
EXTERNAL STANDARD	0.098	13:06
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.098	13:07
BLANK TEST	0.000	13:08
EXTERNAL STANDARD	0.098	13:08
BLANK TEST	0.000	13:09
EXTERNAL STANDARD	0.098	13:09
BLANK TEST	0.000	13:10
EXTERNAL STANDARD	0.098	13:10
BLANK TEST	0.000	13:11

Average = 0.0984
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

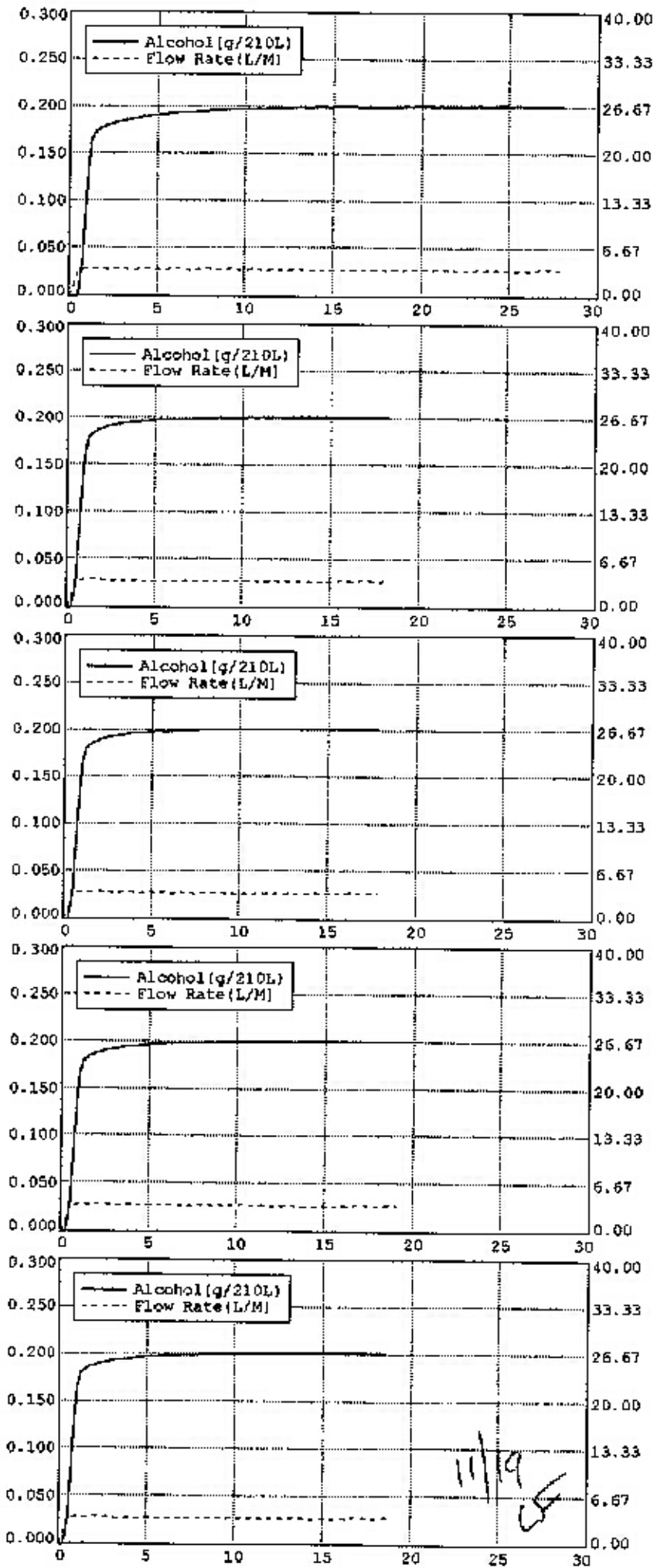
Alaska Department of Public Safety
 DATAMASTER dmt: 100405

Date: 01/16/2013
 Time: 13:18:27

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

BLANK TEST	0.000	13:19
INTERNAL STANDARD	VERIFIED	13:19
EXTERNAL STANDARD	0.203	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.202	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.202	13:22
BLANK TEST	0.000	13:23
EXTERNAL STANDARD	0.202	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.202	13:25
BLANK TEST	0.000	13:26

Average = 0.2025
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dnt: 100405

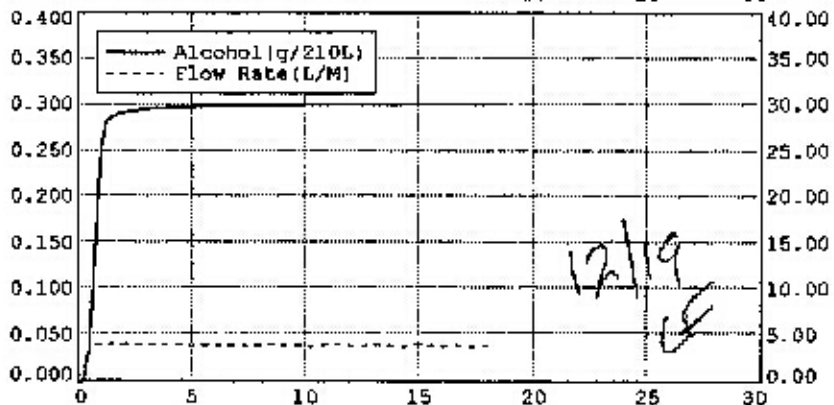
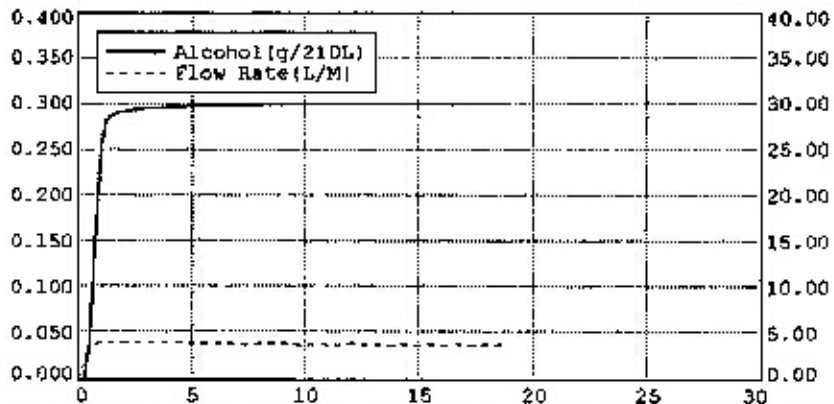
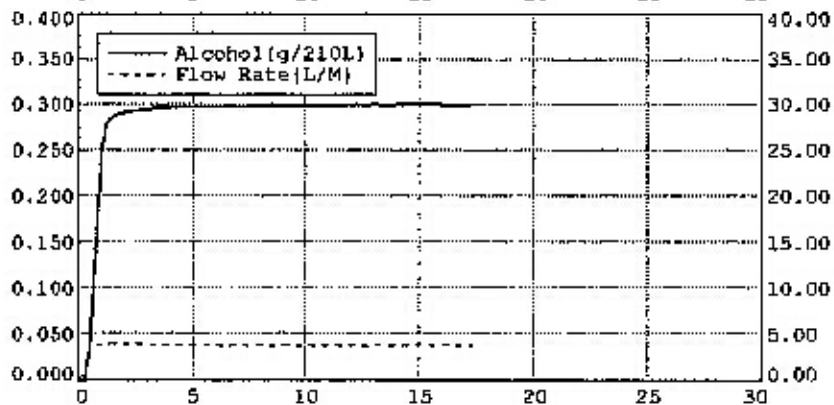
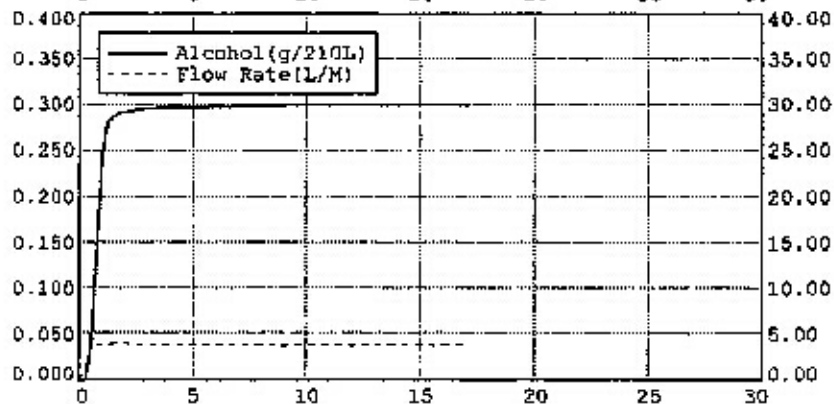
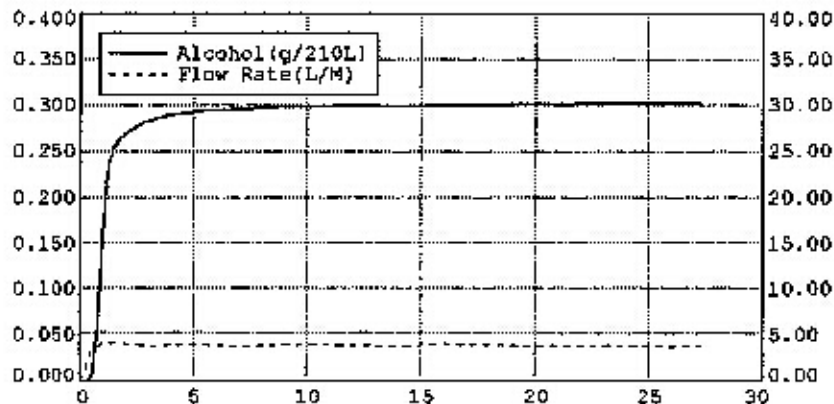
Date: 01/16/2013
Time: 13:28:12

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	13:29
INTERNAL STANDARD	VERIFIED	13:29
EXTERNAL STANDARD	0.302	13:30
BLANK TEST	0.000	13:31
EXTERNAL STANDARD	0.300	13:31
BLANK TEST	0.000	13:32
EXTERNAL STANDARD	0.300	13:32
BLANK TEST	0.000	13:33
EXTERNAL STANDARD	0.300	13:34
BLANK TEST	0.000	13:35
EXTERNAL STANDARD	0.301	13:35
BLANK TEST	0.000	13:36

Average = 0.3012
Std Dev = 0.0008



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

Date: 01/16/2013
 Time: 13:46:28

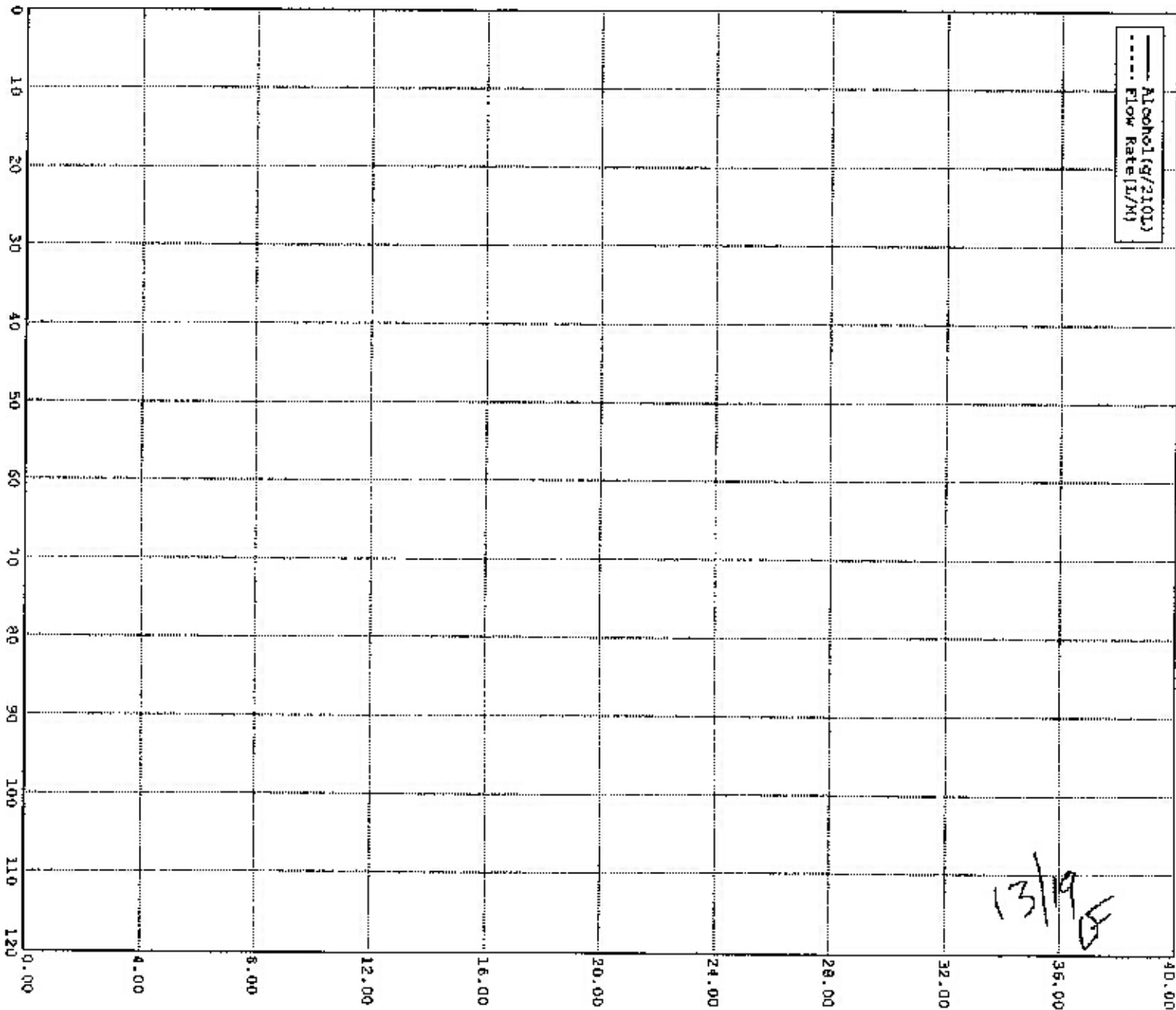
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

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

DIAGNOSTIC CHECK	PASSED	14:02
BLANK TEST	0.000	14:03
INTERNAL STANDARD	VERIFIED	14:03
EXTERNAL STANDARD	0.078	14:03
BLANK TEST	0.000	14:04
SUBJECT SAMPLE	INCOMPLETE	14:06



SUBJECT TEST

Alaska Department of Public Safety
 DATASYSVER dmt: 100405

Date: 01/16/2013
 Time: 14:11:30

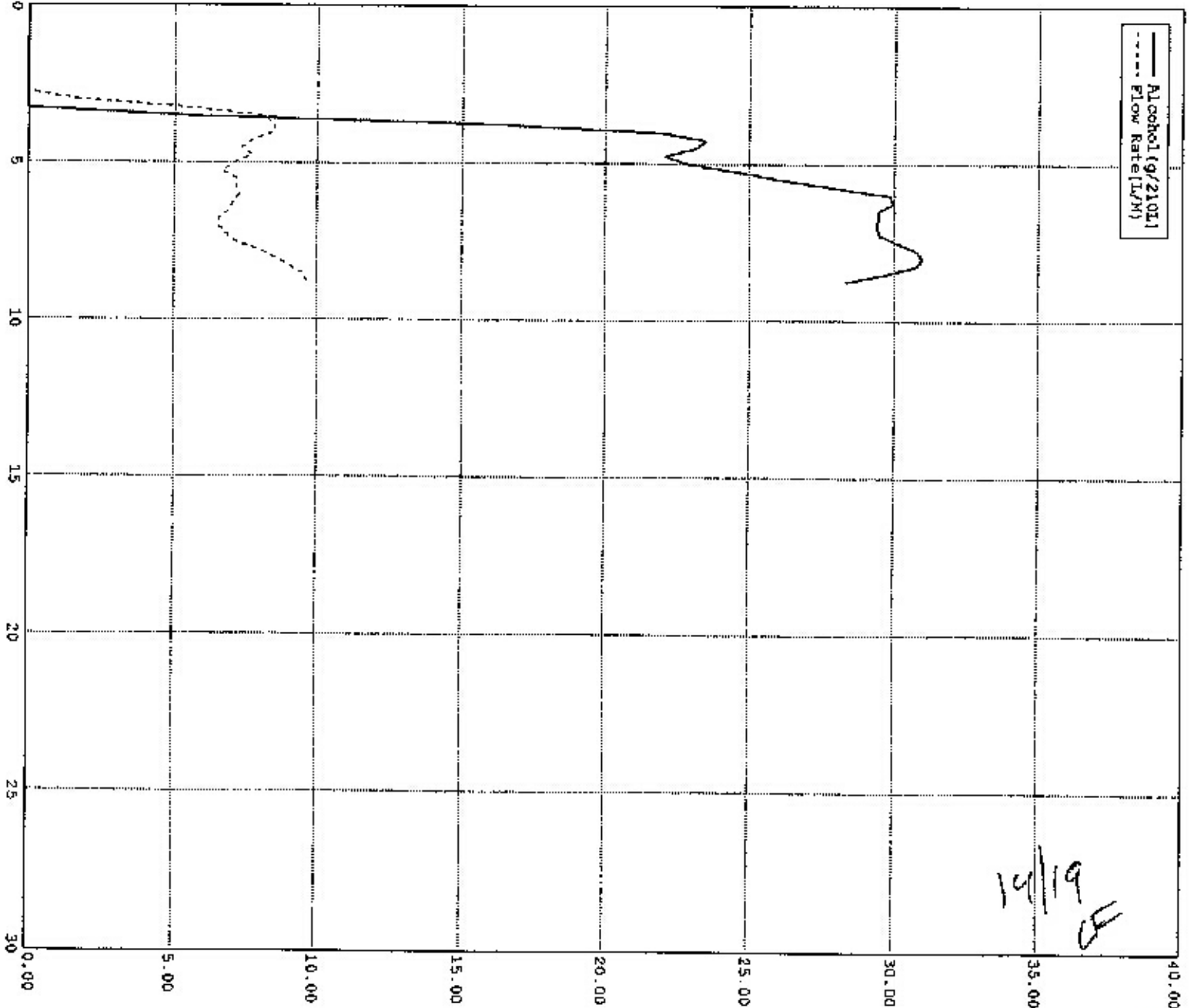
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.55: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	TIME
BLANK TEST	0.000	14:15
INTERNAL STANDARD	VERIFIED	14:15
EXTERNAL STANDARD	0.078	14:15
BLANK TEST	0.090	14:16
SUBJECT SAMPLE	INVALID	14:17



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmc: 100405

Date: 01/16/2013
 Time: 15:03:07

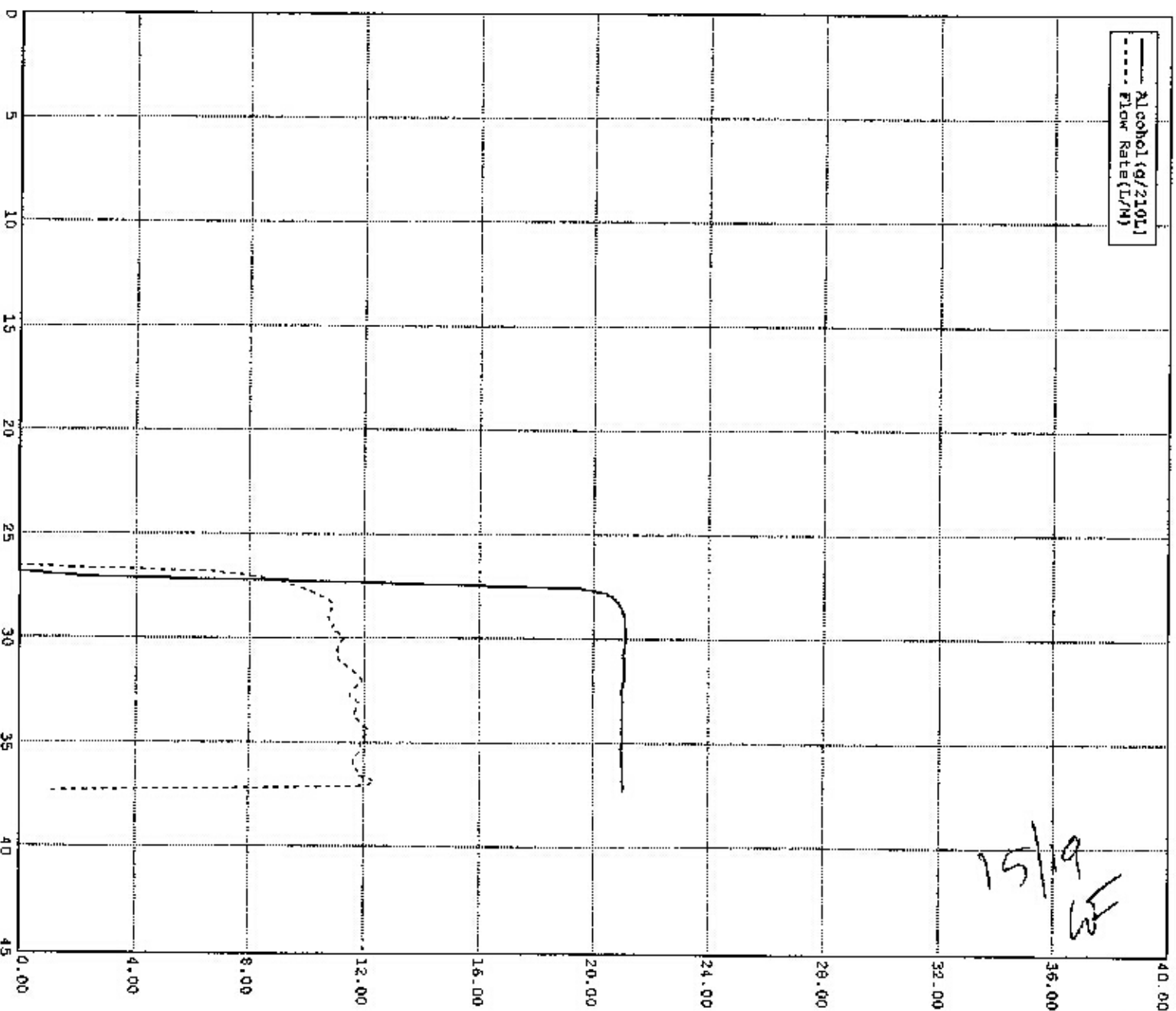
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 29.53: 0.078
 LOT #: 0201208001
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:04
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
X[0] = 0.086 (0.318)	0.078	15:04
EXTERNAL STANDARD	X[1] = 0.0785 (0.0007)	(0.0022)
BLANK TEST	0.000	15:05
SUBJECT SAMPLE	INTERFERENCE	15:05
X[1] = 0.1057 (-0.0157)	(0.0005)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAWASHER dwt: 100405

Date: 01/16/2013
 Time: 15:23:34

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 29.53: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:26
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
X4 = 0.086 (0.31%)		
EXTERNAL STANDARD	0.078	15:26
X11 = 0.0784 (-0.0001) (0.0019)		
BLANK TEST	0.000	15:27
SUBJECT SAMPLE	INTERFERENCE	15:28
X11 = 0.1172 (-0.0190) (0.0011)		



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100405

Date: 01/16/2013
 Time: 15:33:58

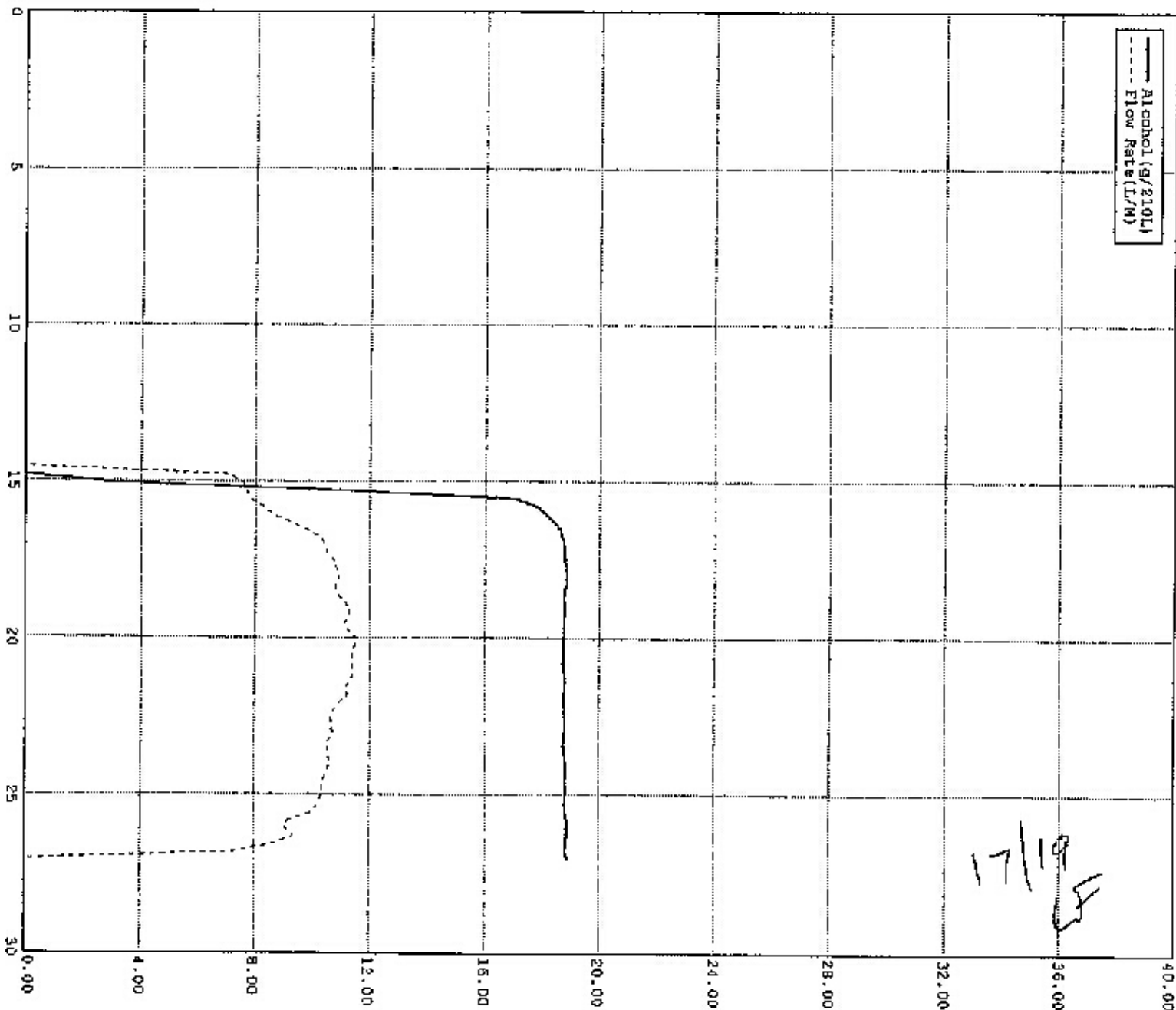
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE EPOCH ONLY
 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	PASSED	15:39
BLANK TEST	0.000	15:40
INTERNAL STANDARD	VERIFIED	15:40
XQ = 0.086 (0.108)		
EXTERNAL STANDARD	0.078	15:40
X[1] = 0.0786 (0.0004)	(0.0017)	
BLANK TEST	0.000	15:41
SUBJECT SAMPLE (Vol=2.05L)	0.095	15:41
X[1] = 0.0950 (-0.0007)	(0.0003)	
BLANK TEST	0.000	15:42
EXTERNAL STANDARD	0.078	15:43
X[1] = 0.0780 (0.0001)	(0.0015)	
BLANK TEST	0.000	15:44



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER db#: 100405

Date: 01/17/2013
 Time: 08:32:42

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

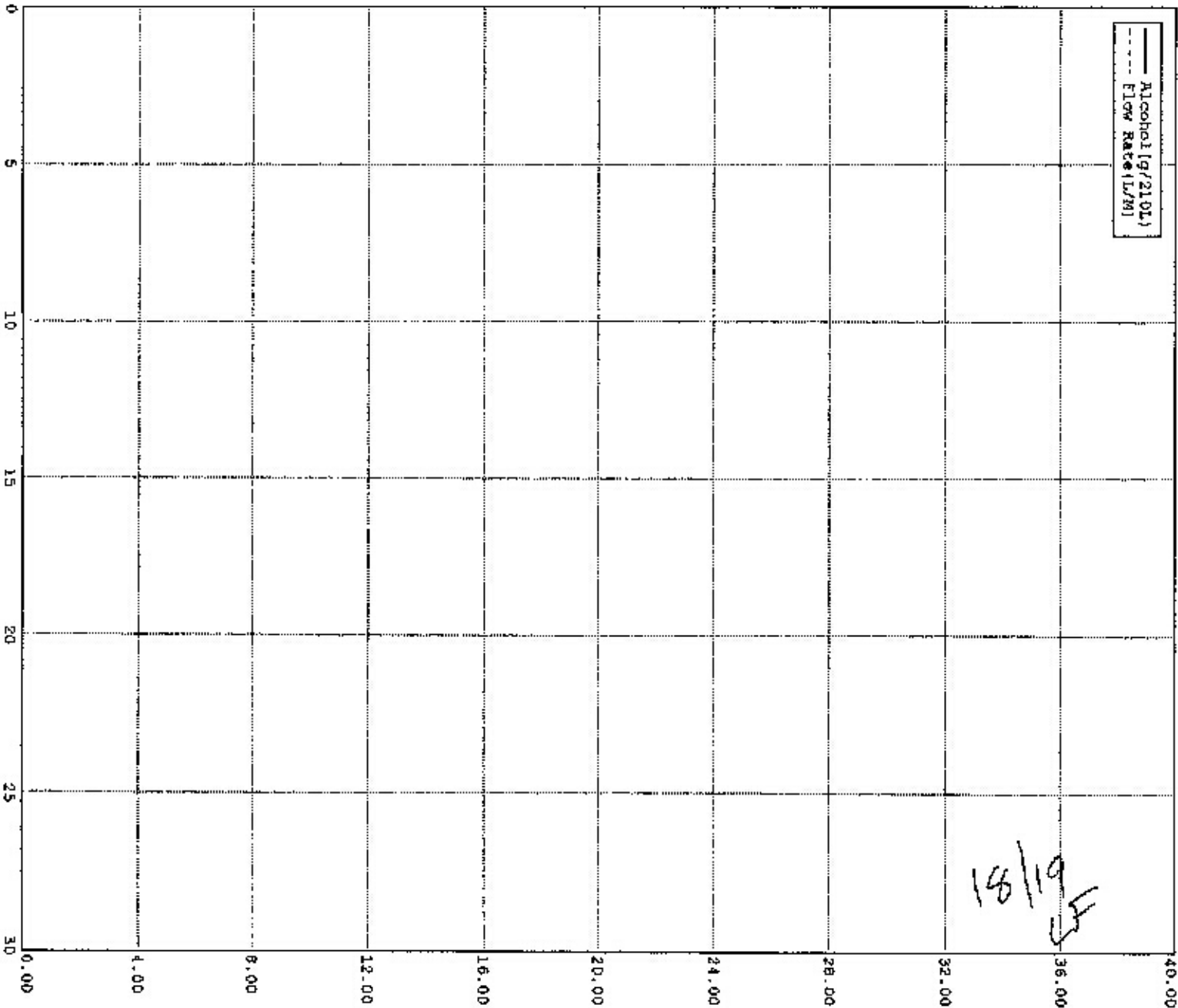
OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.31: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	08:33
BLANK TEST	0.000	08:34
INTERNAL STANDARD	VERIFIED	08:34
EXTERNAL STANDARD	0.078	08:34
BLANK TEST	0.000	08:35

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmc: 100405

Date: 01/17/2013
 Time: 09:17:45

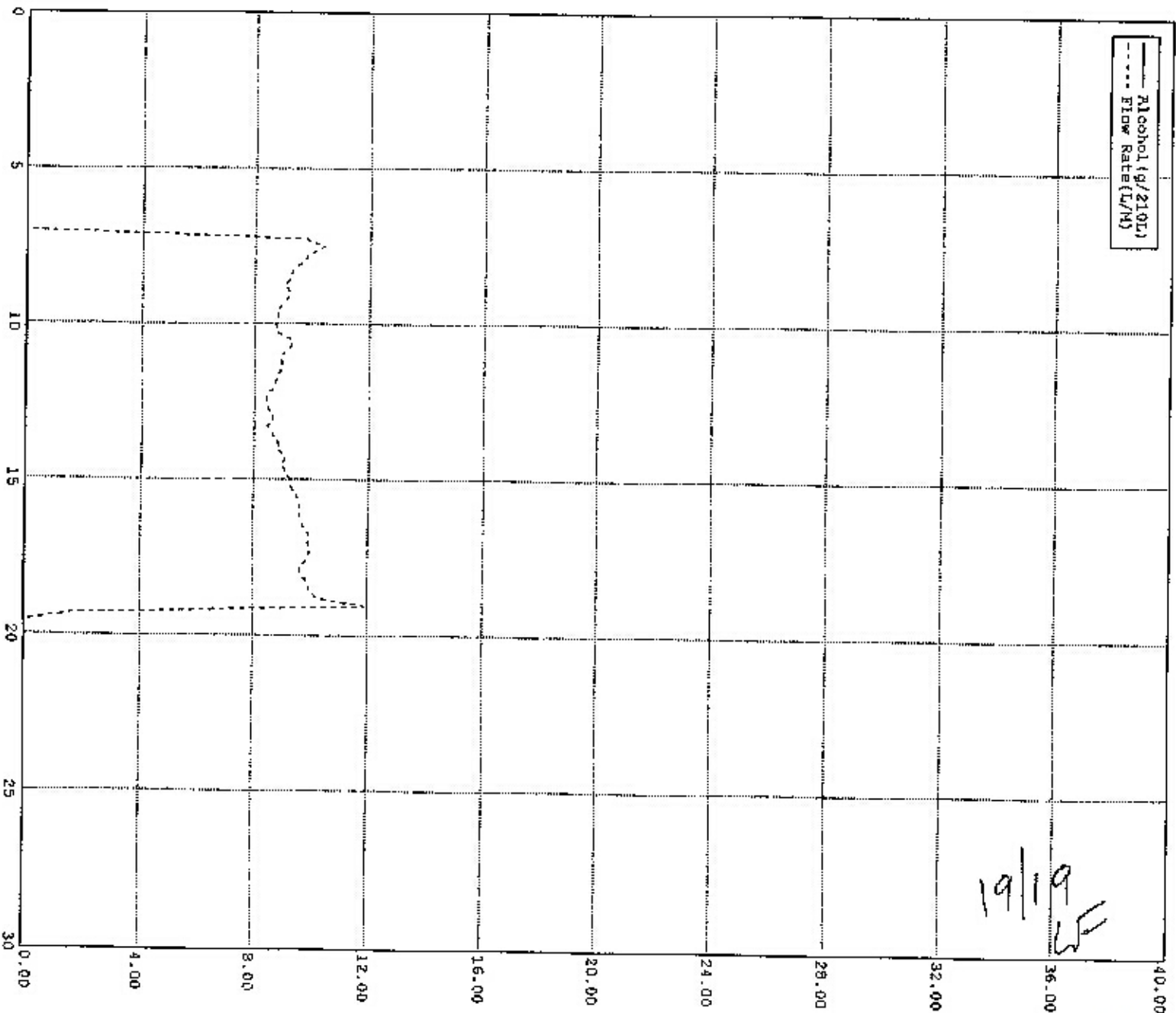
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AM 29.32: 0.078
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:20
BLANK TEST	0.000	09:20
INTERNAL STANDARD	VERIFIED	09:20
EXTERNAL STANDARD	0.078	09:20
BLANK TEST	0.000	09:21
SUBJECT SAMPLE	0.000	09:21
BLANK TEST	0.000	09:22
EXTERNAL STANDARD	0.078	09:23
BLANK TEST	0.000	09:23



Final page for report

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2/18/2014