

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100371 Analyst CRF Start Date 4/9/12Diagnostic 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 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 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf ILMO^{Guth}_{CRF} 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 4/10/12

CRF 1/19

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/09/2012
Time: 14:44:50

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.9°C	PASSED

PUMP INFO

Flow Rate = 5.369 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

INTERNAL STANDARD	PASSED
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CRF
2/19

Technician Screen

DATAMASTER dmt: 100371

Date: 04/09/2012

Time: 2:58 PM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.1°C

Current Barometer 30.0 in

Volume (Ltr) 1.46

Settings

Lamp: 1.69 V

Bias: 79 V

Cooler: 1.66 V

Chopper: 542 Hz

Voltages (V)

Flow: 1.05 V

Detector: -0.051 V

CTF
3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/09/2012
Time: 10:47:16

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

Ca	=	0.1000		
CAL	=	0.955581	0.800	<= CAL < 1.200
b1	=	0.0000	0.0000	<= b1 < 0.0040
b2	=	0.0057	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0764	0.0500	<= Xq < 0.2000
a21	=	1.167395	1.050	<= a21 < 1.300
a31	=	0.489347	0.300	<= a31 < 0.800

CRF
4/19

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100371

Date: 04/09/2012
Time: 15:24:56

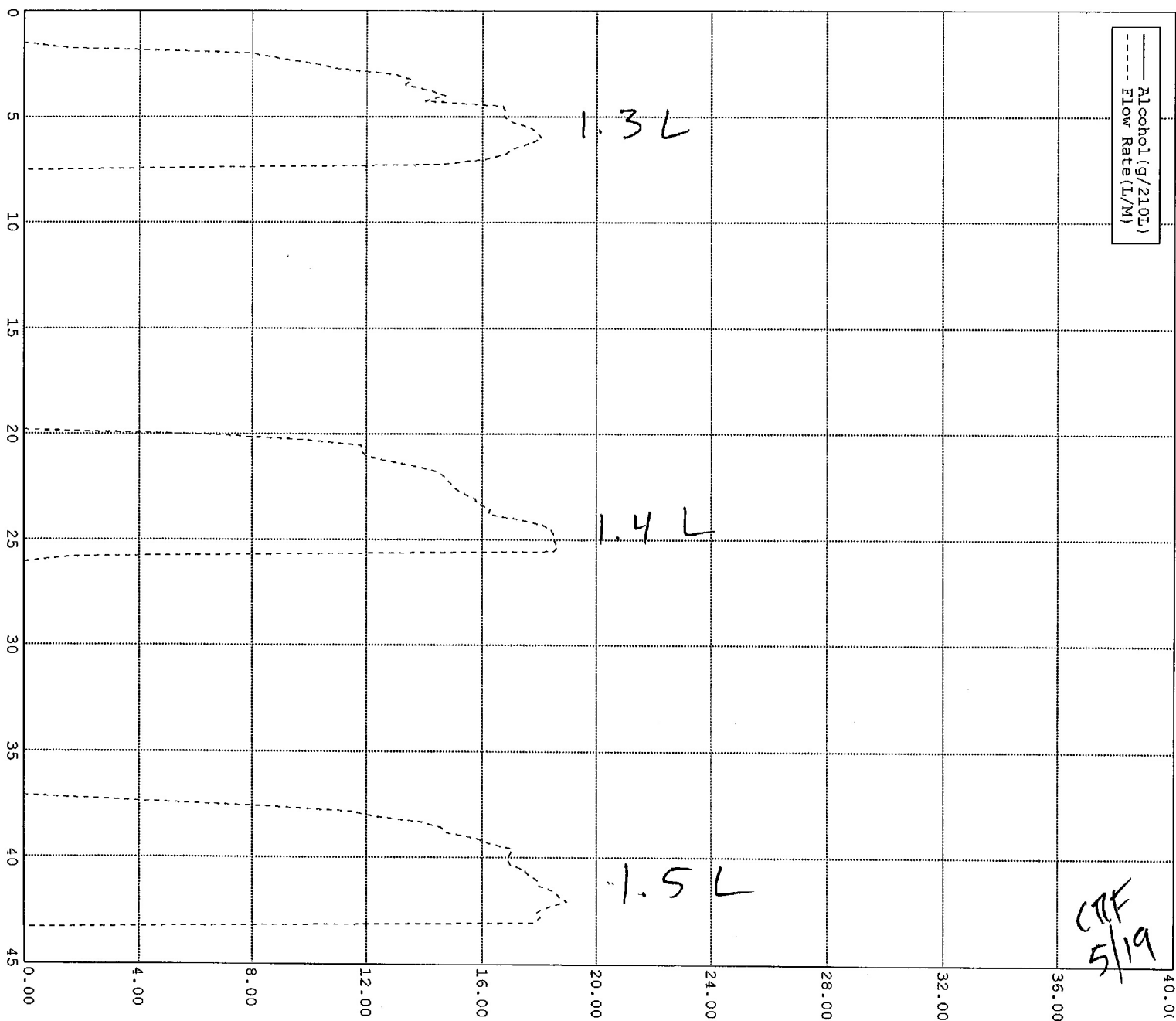
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
MINIMUM VOLUME
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.00: 0.080
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.076	15:26
BLANK TEST	0.000	15:27
SUBJECT SAMPLE	0.000	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.076	15:29
BLANK TEST	0.000	15:30



LINEARITY CHECK

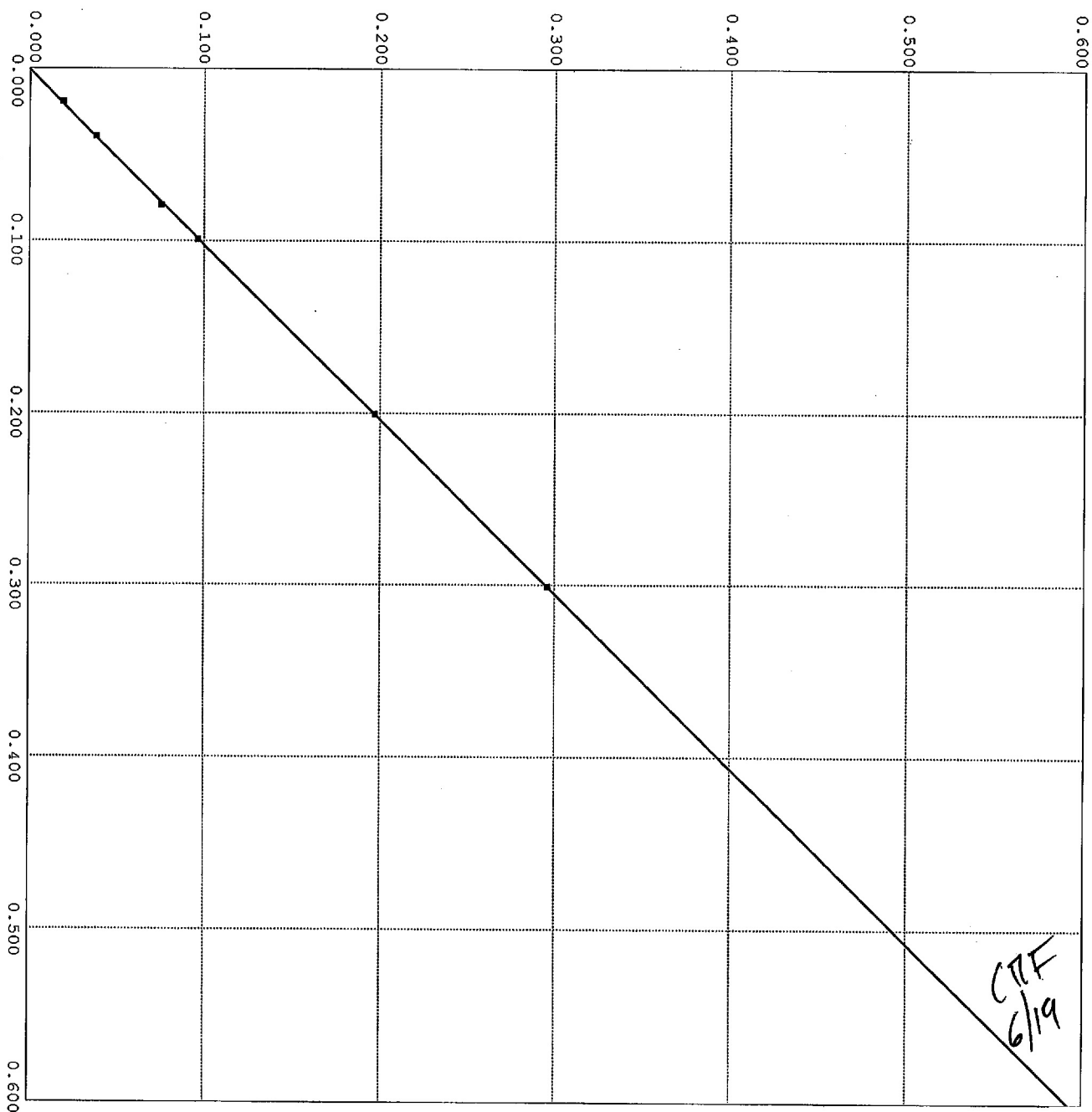
Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 04/10/2012
 Time: 08:59:54

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0199	0.0004
0.039	0.0391	0.0001
0.079	0.0760	0.0004
0.099	0.0969	0.0003
0.200	0.1978	0.0005
0.300	0.2967	0.0006

SLOPE = 0.988303
 R^2 = 0.999882



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100371

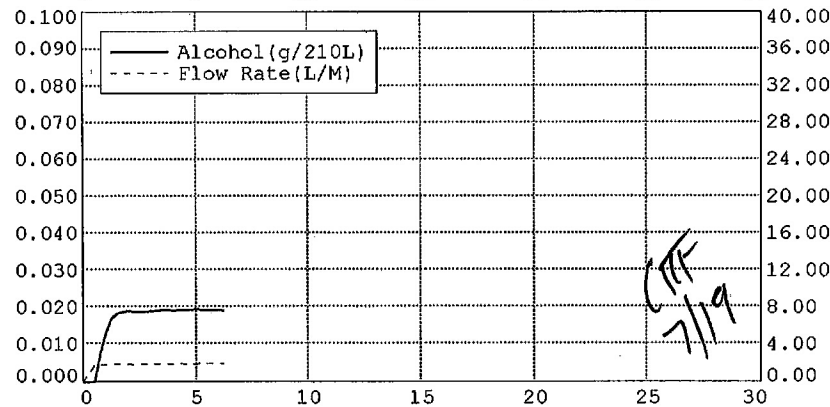
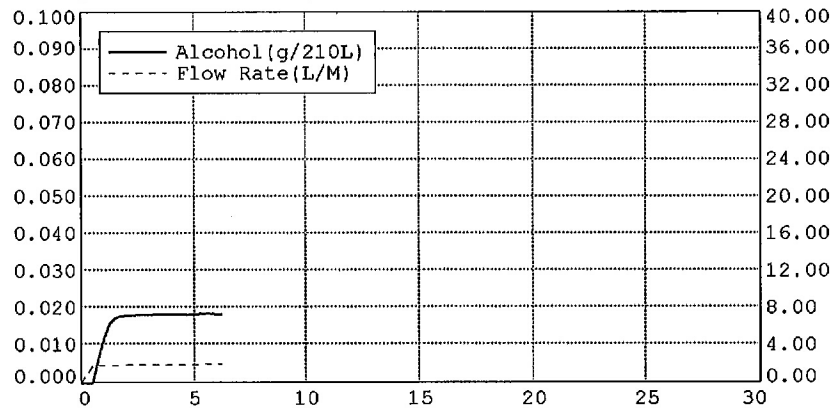
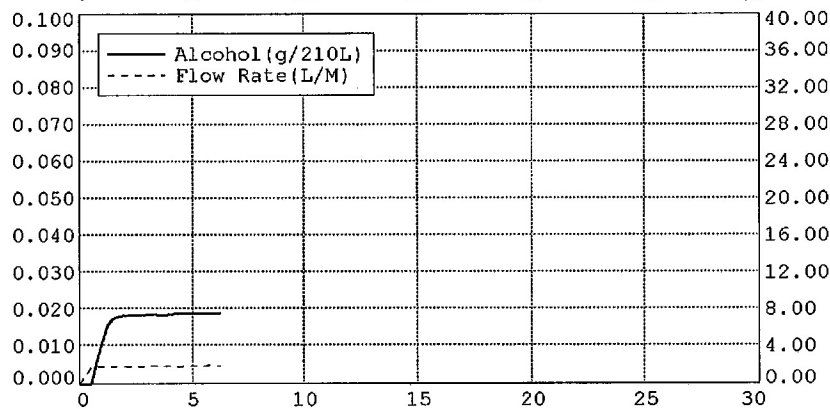
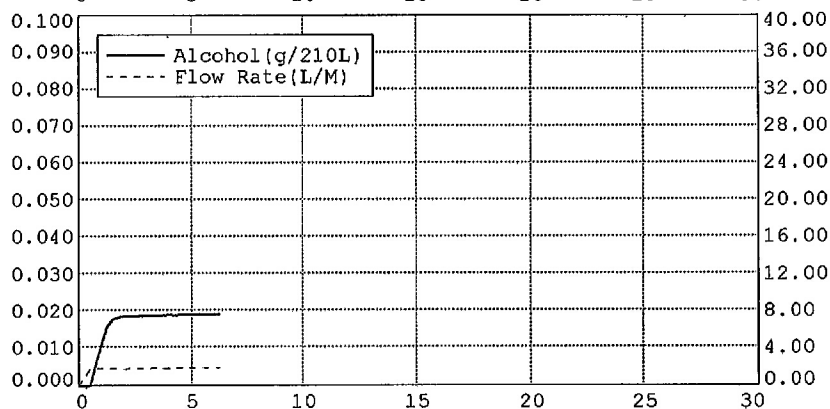
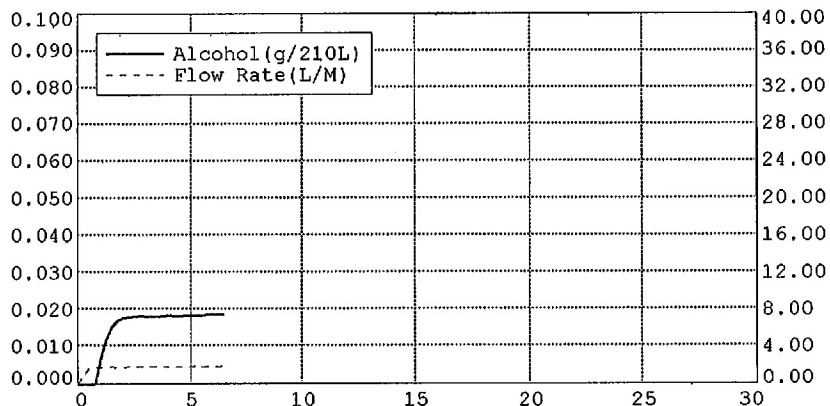
Date: 04/10/2012
Time: 08:59:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.78: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:01
INTERNAL STANDARD	VERIFIED	09:01
EXTERNAL STANDARD	0.019	09:01
BLANK TEST	0.000	09:02
EXTERNAL STANDARD	0.020	09:02
BLANK TEST	0.000	09:03
EXTERNAL STANDARD	0.020	09:03
BLANK TEST	0.000	09:04
EXTERNAL STANDARD	0.019	09:05
BLANK TEST	0.000	09:05
EXTERNAL STANDARD	0.020	09:06
BLANK TEST	0.000	09:07

Average = 0.0199
Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100371

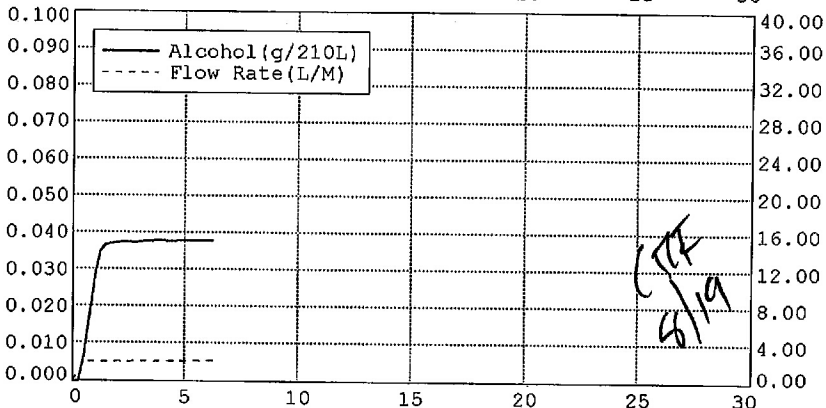
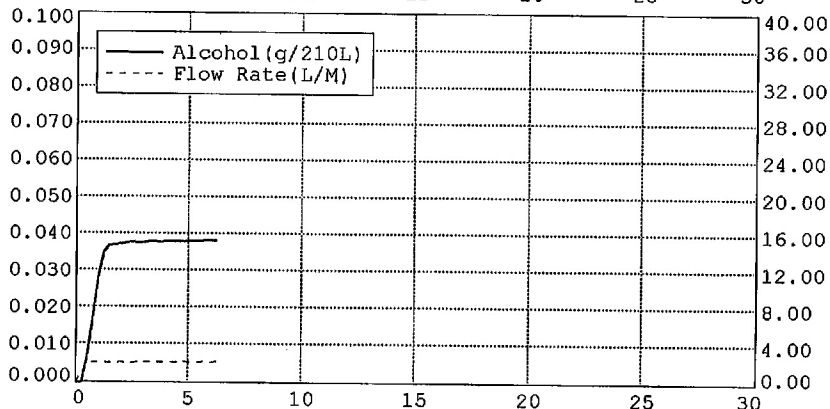
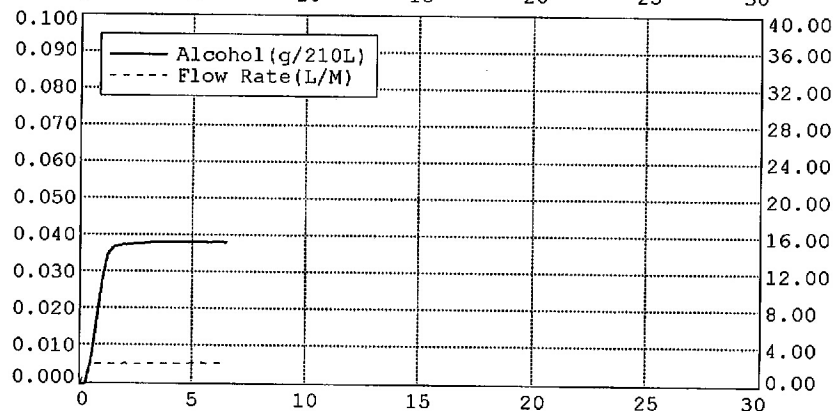
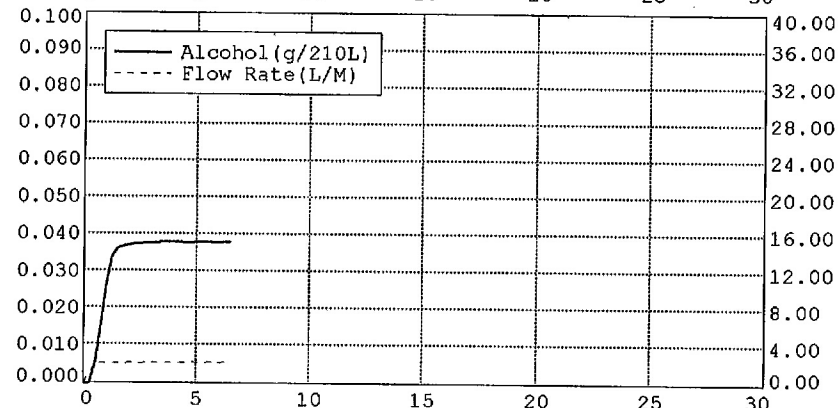
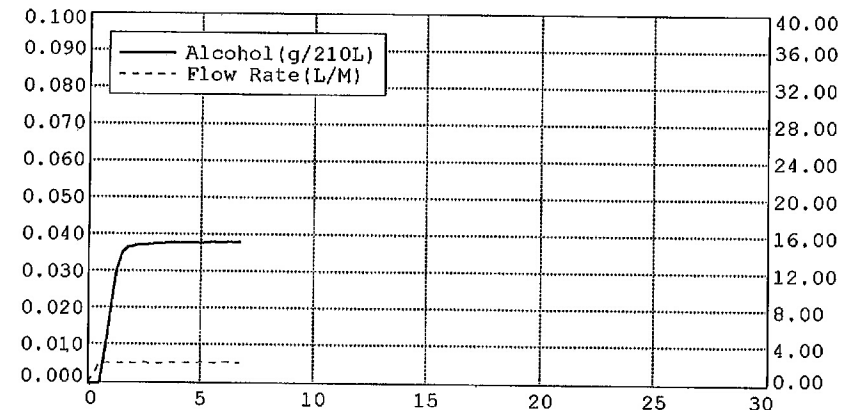
Date: 04/10/2012
Time: 09:08:50

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.78: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:10
INTERNAL STANDARD	VERIFIED	09:10
EXTERNAL STANDARD	0.039	09:10
BLANK TEST	0.000	09:11
EXTERNAL STANDARD	0.039	09:11
BLANK TEST	0.000	09:12
EXTERNAL STANDARD	0.039	09:12
BLANK TEST	0.000	09:13
EXTERNAL STANDARD	0.039	09:13
BLANK TEST	0.000	09:14
EXTERNAL STANDARD	0.039	09:15
BLANK TEST	0.000	09:16

Average = 0.0391
Std Dev = 0.0001



LINEARITY CHECK: Control Test 3

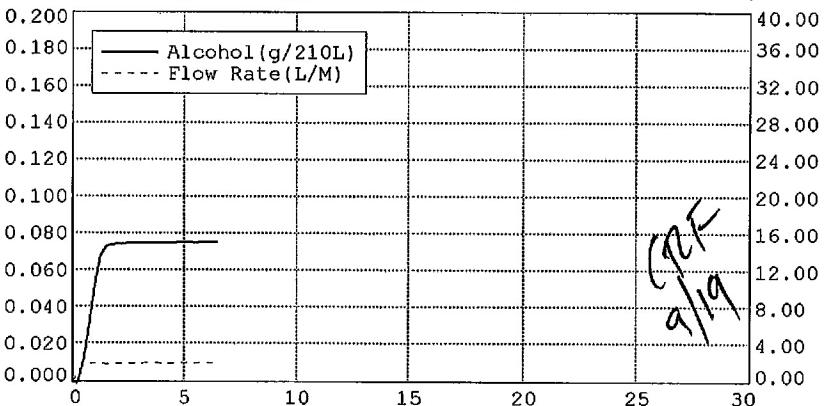
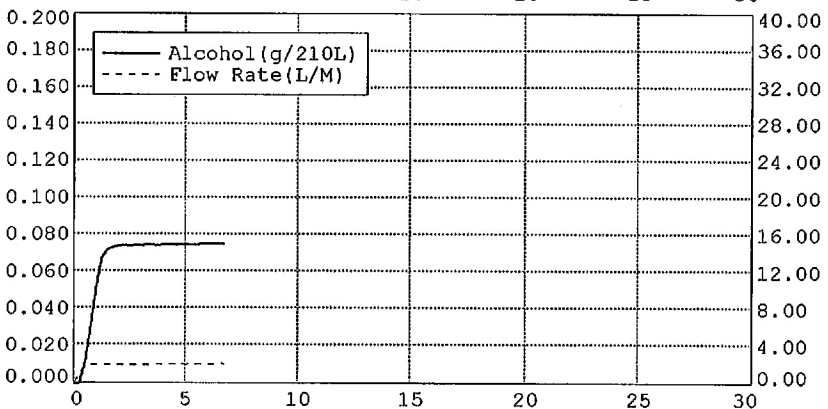
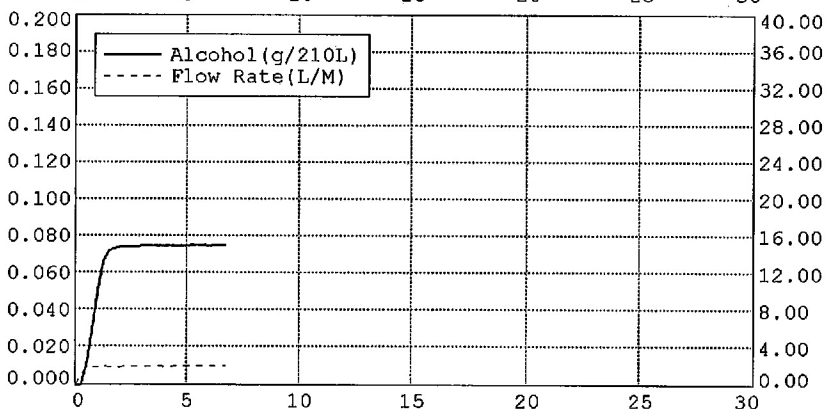
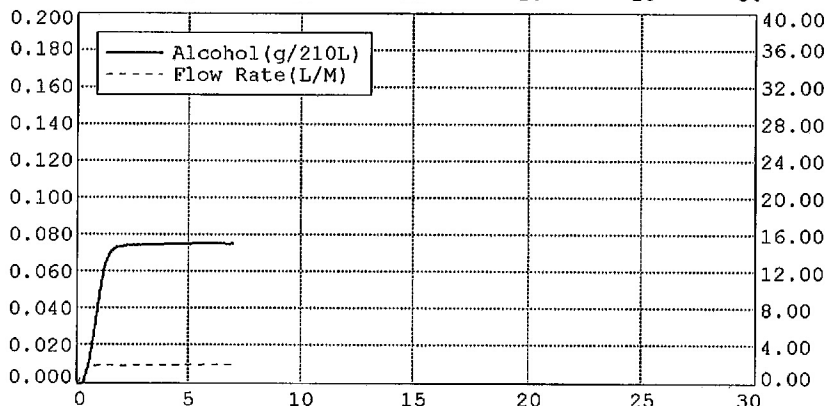
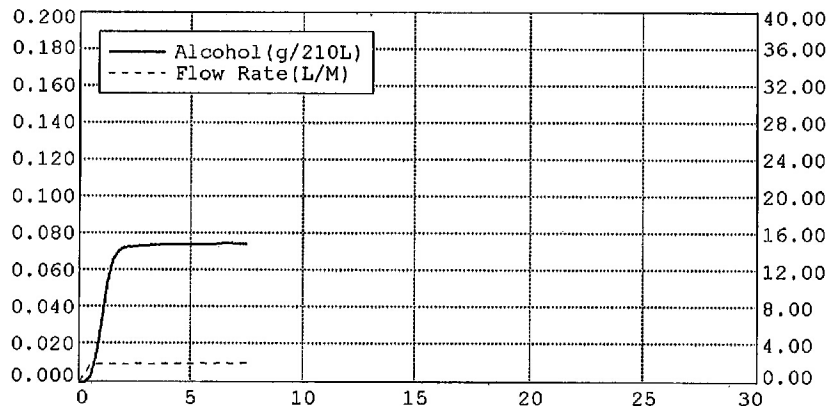
Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/10/2012
Time: 09:20:20

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.78: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:21
INTERNAL STANDARD	VERIFIED	09:21
EXTERNAL STANDARD	0.075	09:22
BLANK TEST	0.000	09:23
EXTERNAL STANDARD	0.076	09:23
BLANK TEST	0.000	09:24
EXTERNAL STANDARD	0.076	09:24
BLANK TEST	0.000	09:25
EXTERNAL STANDARD	0.075	09:25
BLANK TEST	0.000	09:26
EXTERNAL STANDARD	0.076	09:26
BLANK TEST	0.000	09:27

Average = 0.0760
Std Dev = 0.0004



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100371

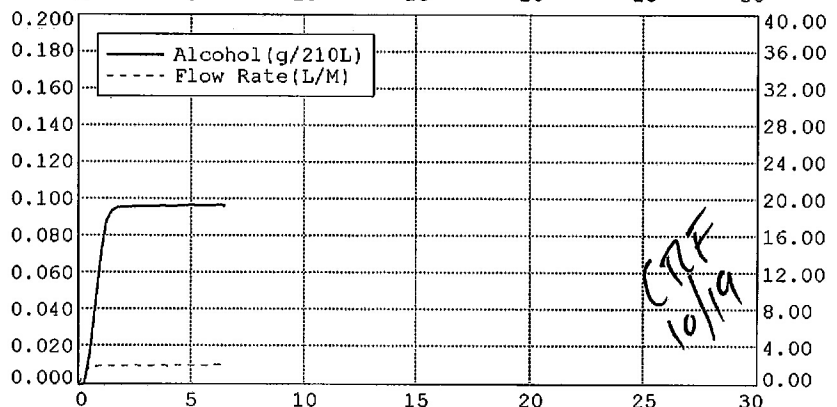
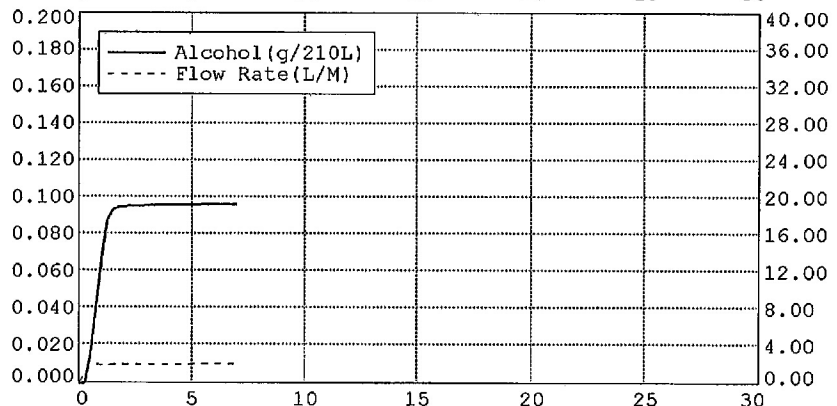
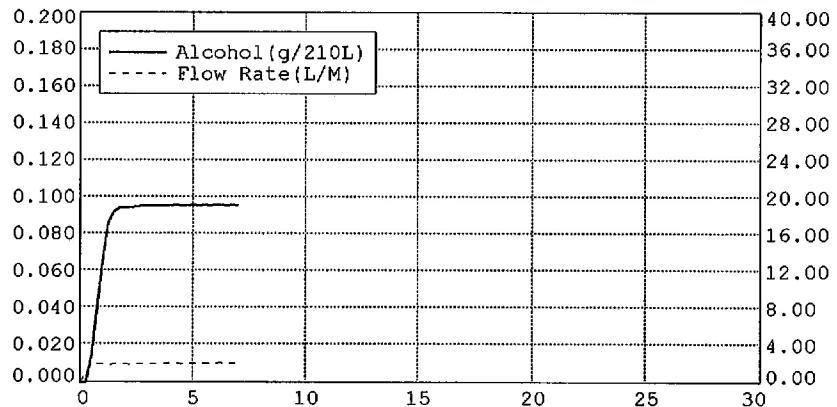
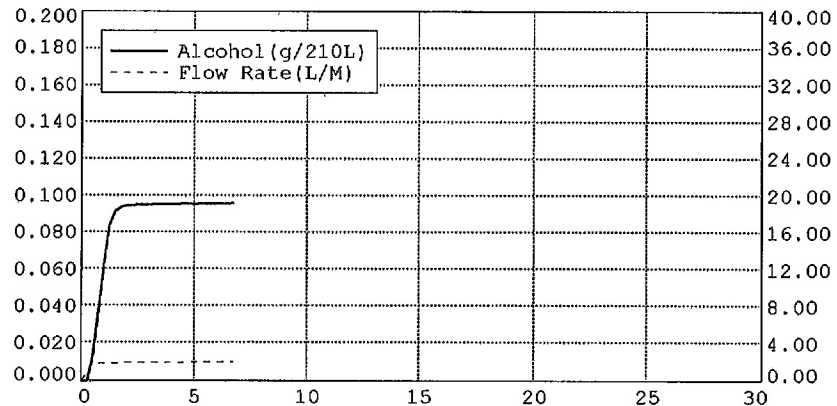
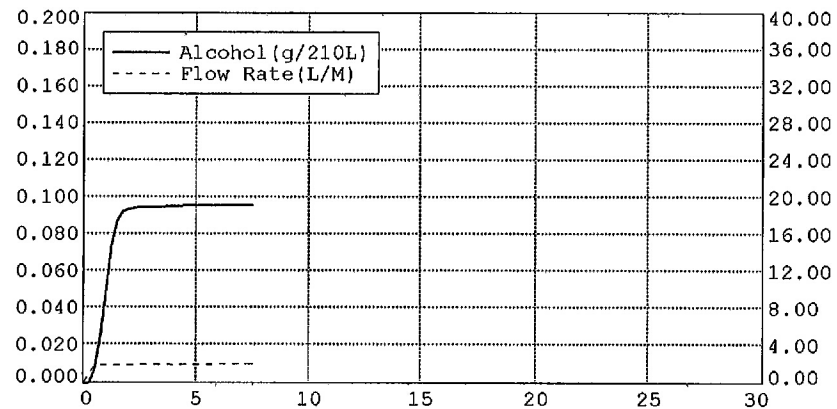
Date: 04/10/2012
Time: 09:32:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.78: 0.099
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	09:34
INTERNAL STANDARD	VERIFIED	09:34
EXTERNAL STANDARD	0.096	09:34
BLANK TEST	0.000	09:35
EXTERNAL STANDARD	0.096	09:35
BLANK TEST	0.000	09:36
EXTERNAL STANDARD	0.096	09:36
BLANK TEST	0.000	09:37
EXTERNAL STANDARD	0.097	09:37
BLANK TEST	0.000	09:38
EXTERNAL STANDARD	0.097	09:38
BLANK TEST	0.000	09:39

Average = 0.0969
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/10/2012
Time: 09:42:34

EXTERNAL STANDARD INFORMATION

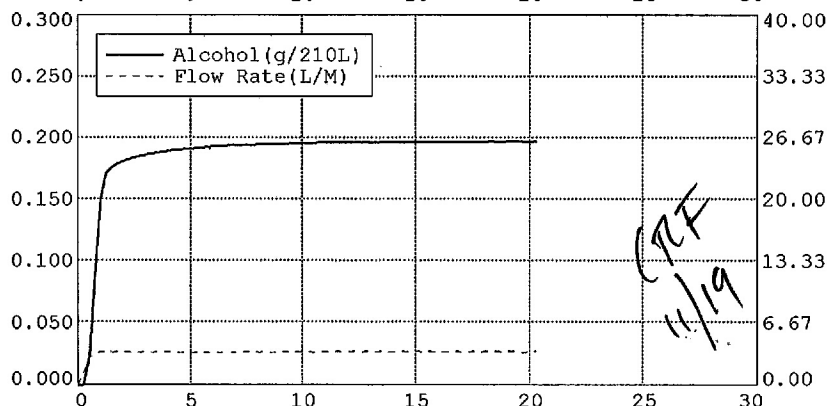
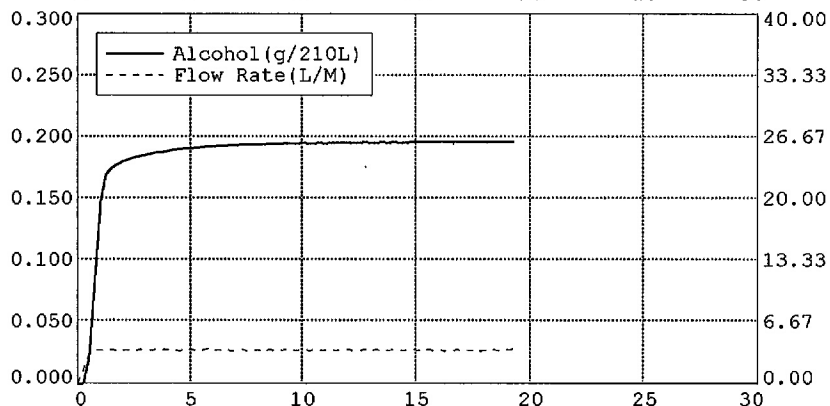
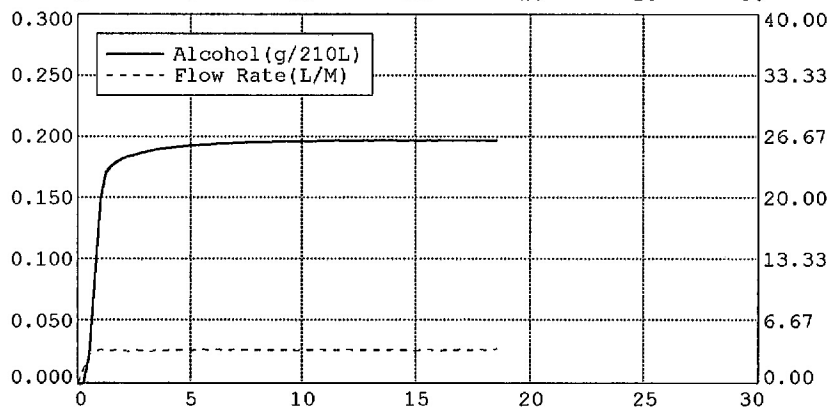
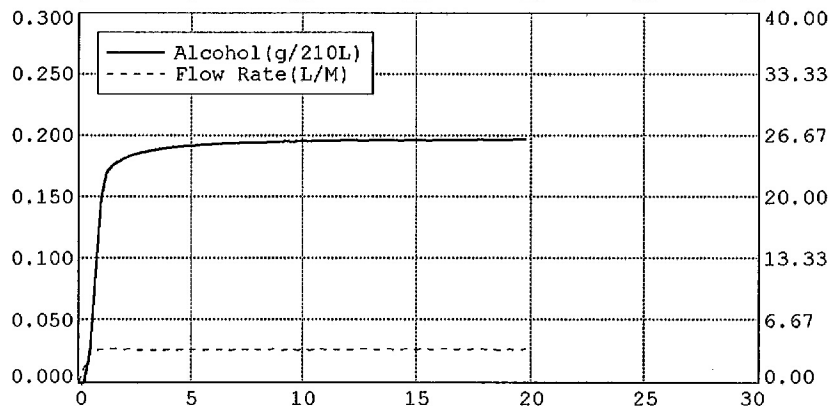
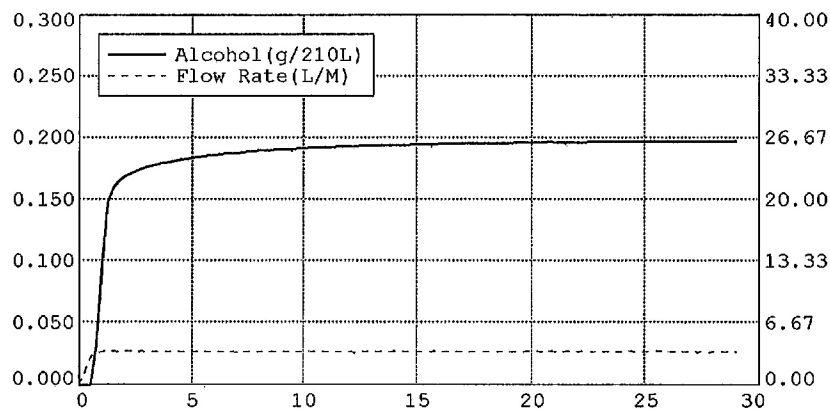
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	09:43
INTERNAL STANDARD	VERIFIED	09:43
EXTERNAL STANDARD	0.198	09:44
BLANK TEST	0.000	09:45
EXTERNAL STANDARD	0.197	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.198	09:47
BLANK TEST	0.000	09:48
EXTERNAL STANDARD	0.197	09:48
BLANK TEST	0.000	09:49
EXTERNAL STANDARD	0.197	09:49
BLANK TEST	0.000	09:50

Average = 0.1978
Std Dev = 0.0005



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/10/2012
Time: 09:53:31

EXTERNAL STANDARD INFORMATION

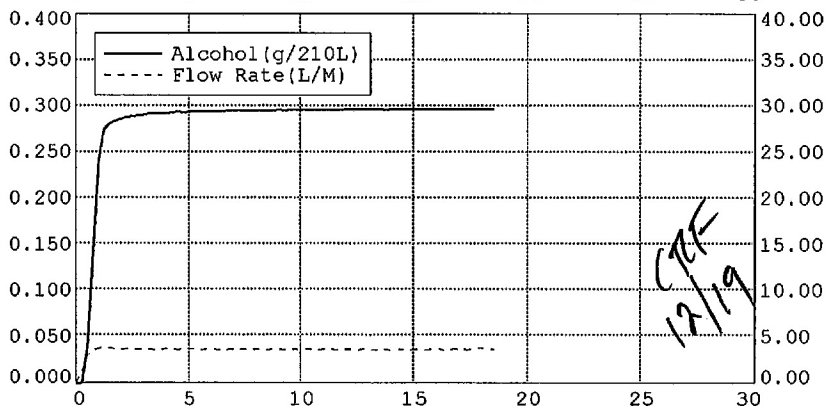
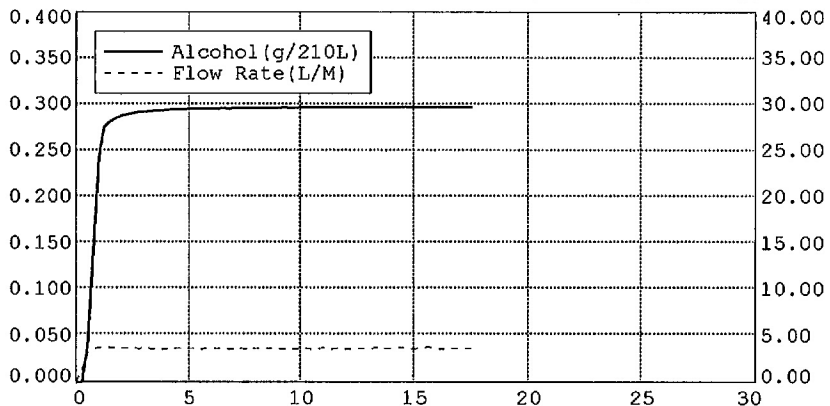
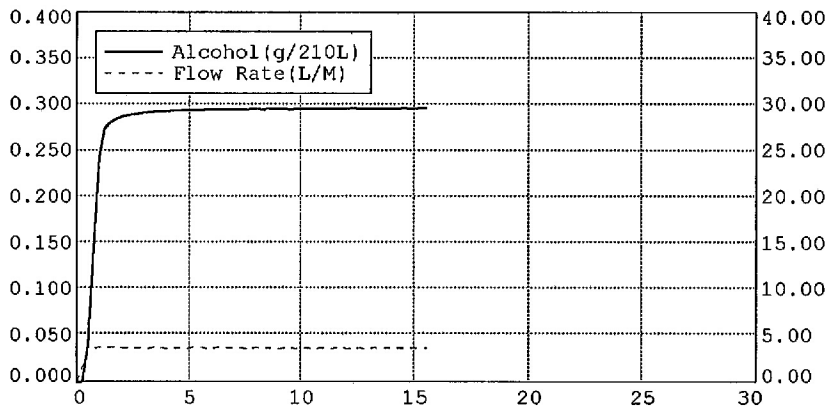
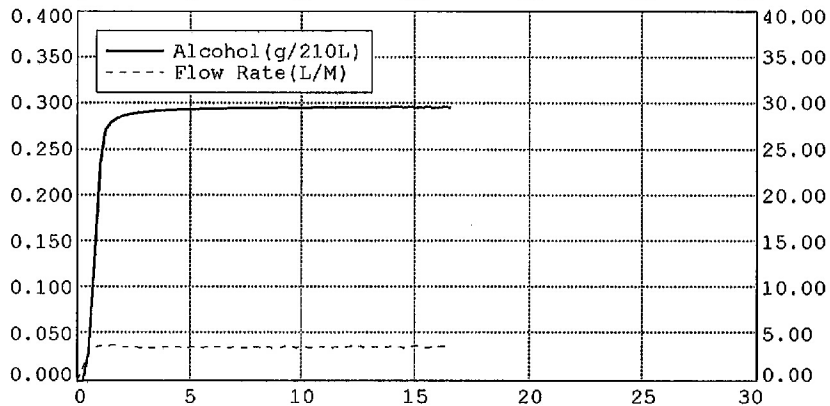
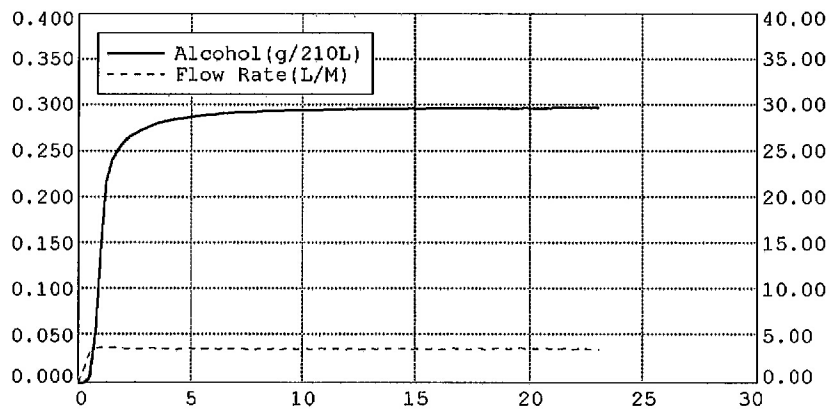
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	09:54
INTERNAL STANDARD	VERIFIED	09:54
EXTERNAL STANDARD	0.297	09:55
BLANK TEST	0.000	09:56
EXTERNAL STANDARD	0.296	09:56
BLANK TEST	0.000	09:57
EXTERNAL STANDARD	0.295	09:57
BLANK TEST	0.000	09:58
EXTERNAL STANDARD	0.297	09:59
BLANK TEST	0.000	10:00
EXTERNAL STANDARD	0.296	10:00
BLANK TEST	0.000	10:01

Average = 0.2967
Std Dev = 0.0006



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 04/10/2012
 Time: 10:33:46

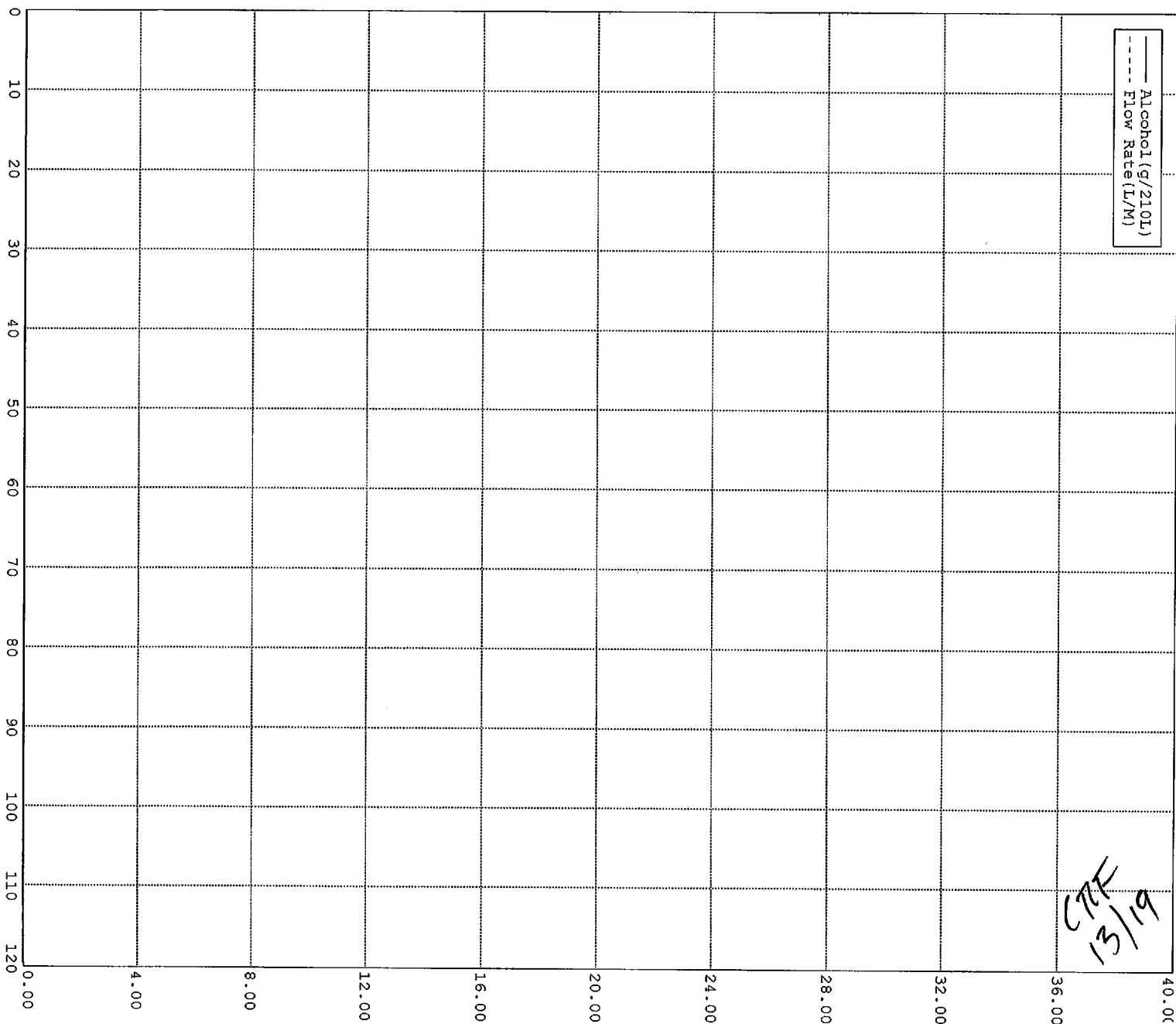
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INCOMPLETE XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.76: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:34
BLANK TEST	0.000	10:34
INTERNAL STANDARD	VERIFIED	10:35
EXTERNAL STANDARD	0.075	10:35
BLANK TEST	0.000	10:36
SUBJECT SAMPLE	INCOMPLETE	10:38



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/10/2012
Time: 10:43:10

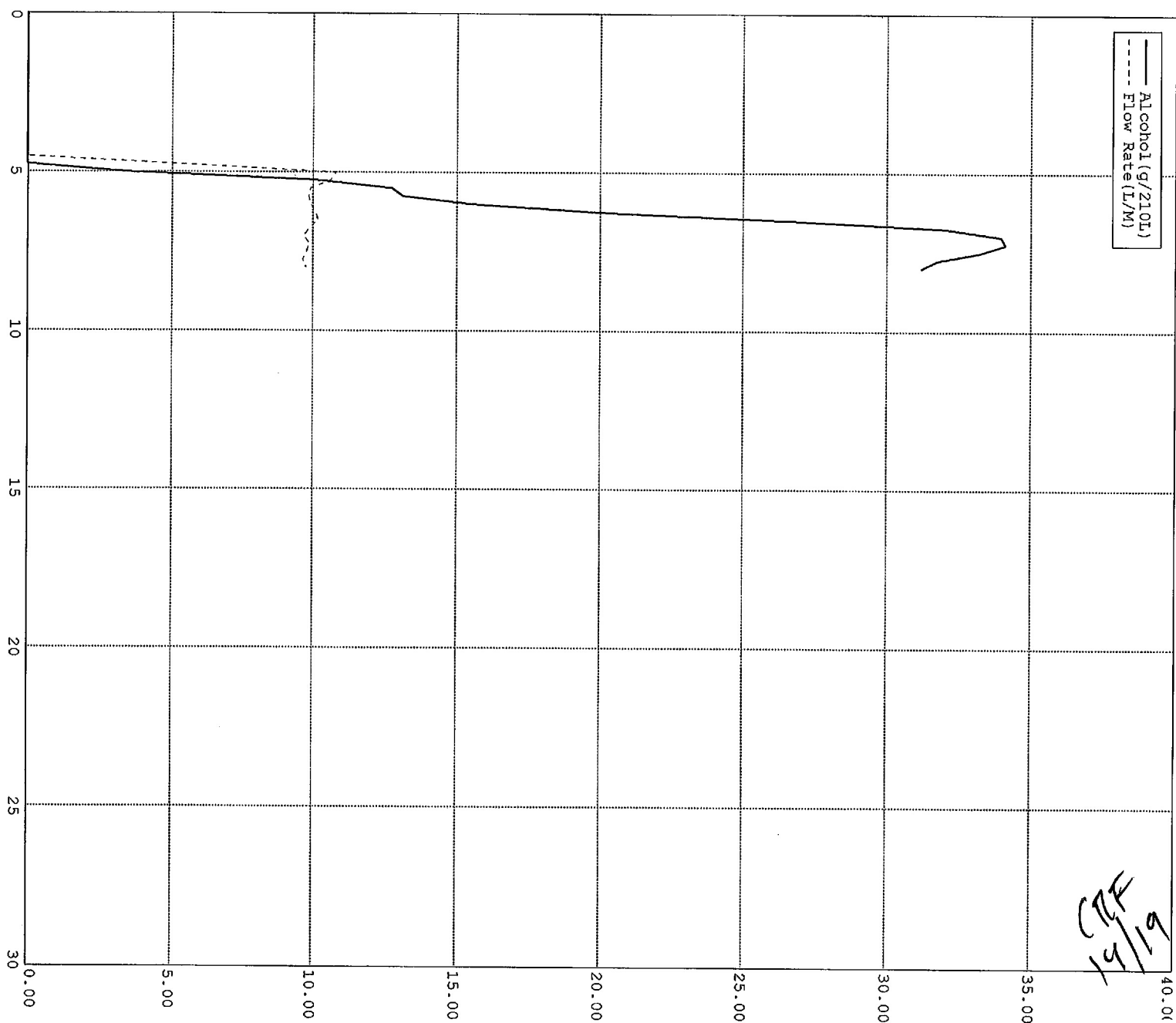
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.76: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	10:47
BLANK TEST	0.000	10:47
INTERNAL STANDARD	VERIFIED	10:47
EXTERNAL STANDARD	0.076	10:47
BLANK TEST	0.000	10:48
SUBJECT SAMPLE	INVALID	10:48



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/10/2012
Time: 11:20:29

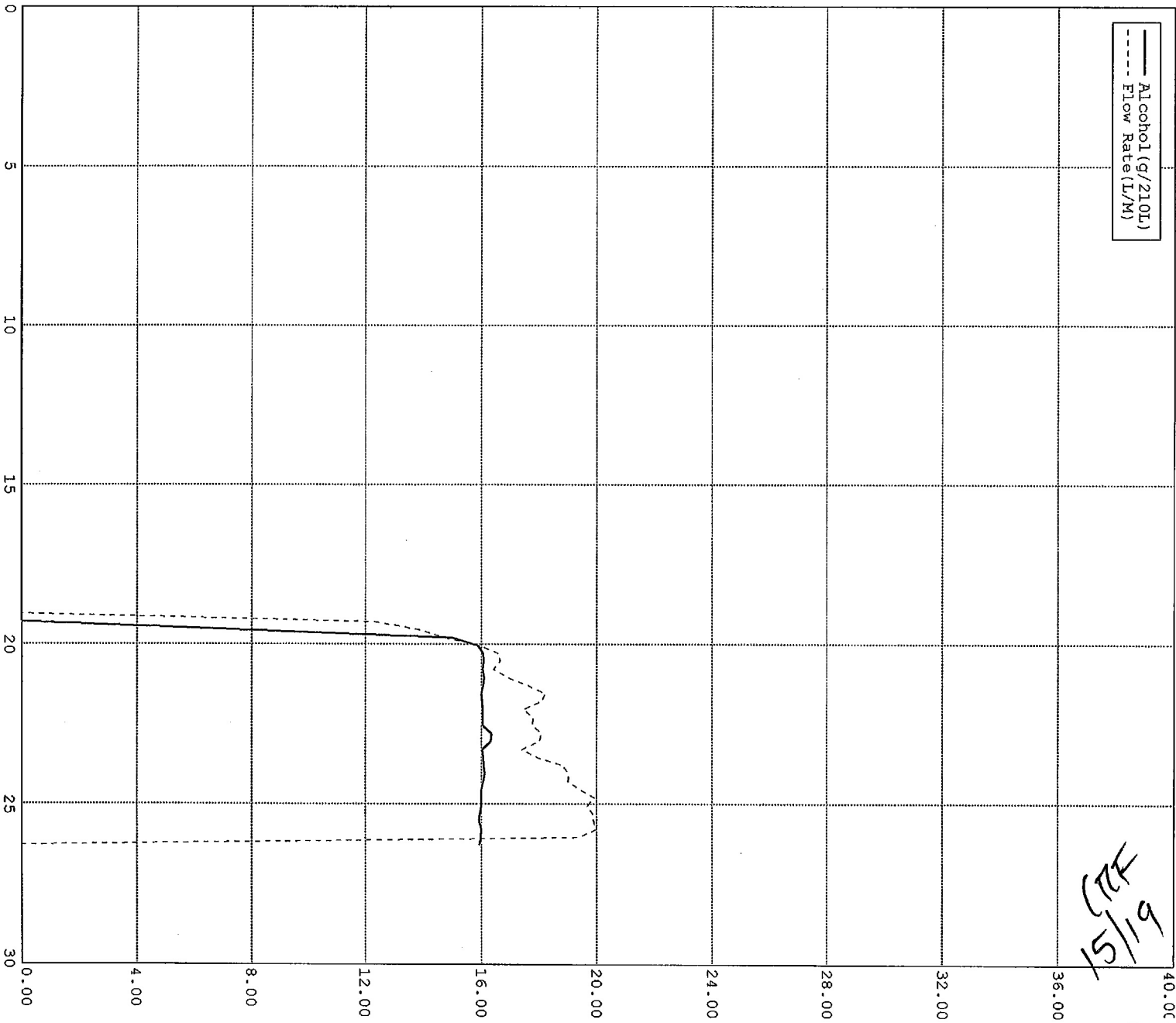
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.76: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

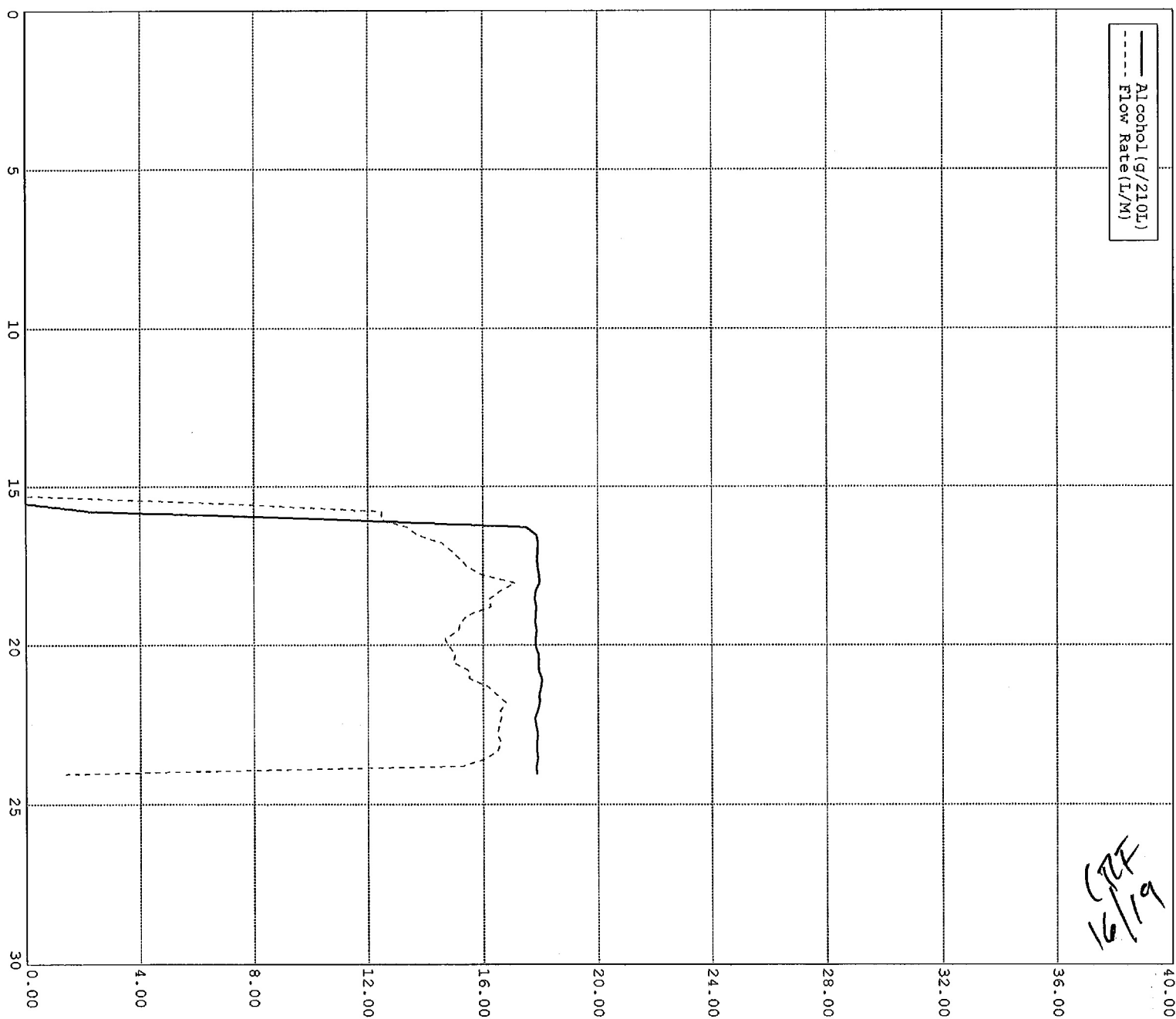
DIAGNOSTIC CHECK		PASSED	11:26
BLANK TEST	0.000	11:27	
INTERNAL STANDARD	VERIFIED	11:27	
Xq = 0.076 (0.68%)			
EXTERNAL STANDARD	0.075	11:27	
X[1] = 0.0753 (-0.0033)	(0.0016)		
BLANK TEST	0.000	11:28	
SUBJECT SAMPLE	INTERFERENCE	11:28	
X[1] = 0.0805 (-0.0106)	(0.0011)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371Date: 04/10/2012
Time: 11:42:47SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
INTERFERENCE ETOH AND IPA
OPERATOR'S #: XXXXDEPT/AGENCY:
XXXX
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.75: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:45
BLANK TEST	0.000	11:45
INTERNAL STANDARD	VERIFIED	11:45
Xq = 0.077 (1.25%)	0.075	11:45
EXTERNAL STANDARD	X[1] = 0.0759 (-0.0024)	(0.0013)
BLANK TEST	0.000	11:46
SUBJECT SAMPLE	INTERFERENCE	11:47
X[1] = 0.0902 (-0.0243)	(0.0009)	



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100371

Date: 04/10/2012
Time: 13:40:22

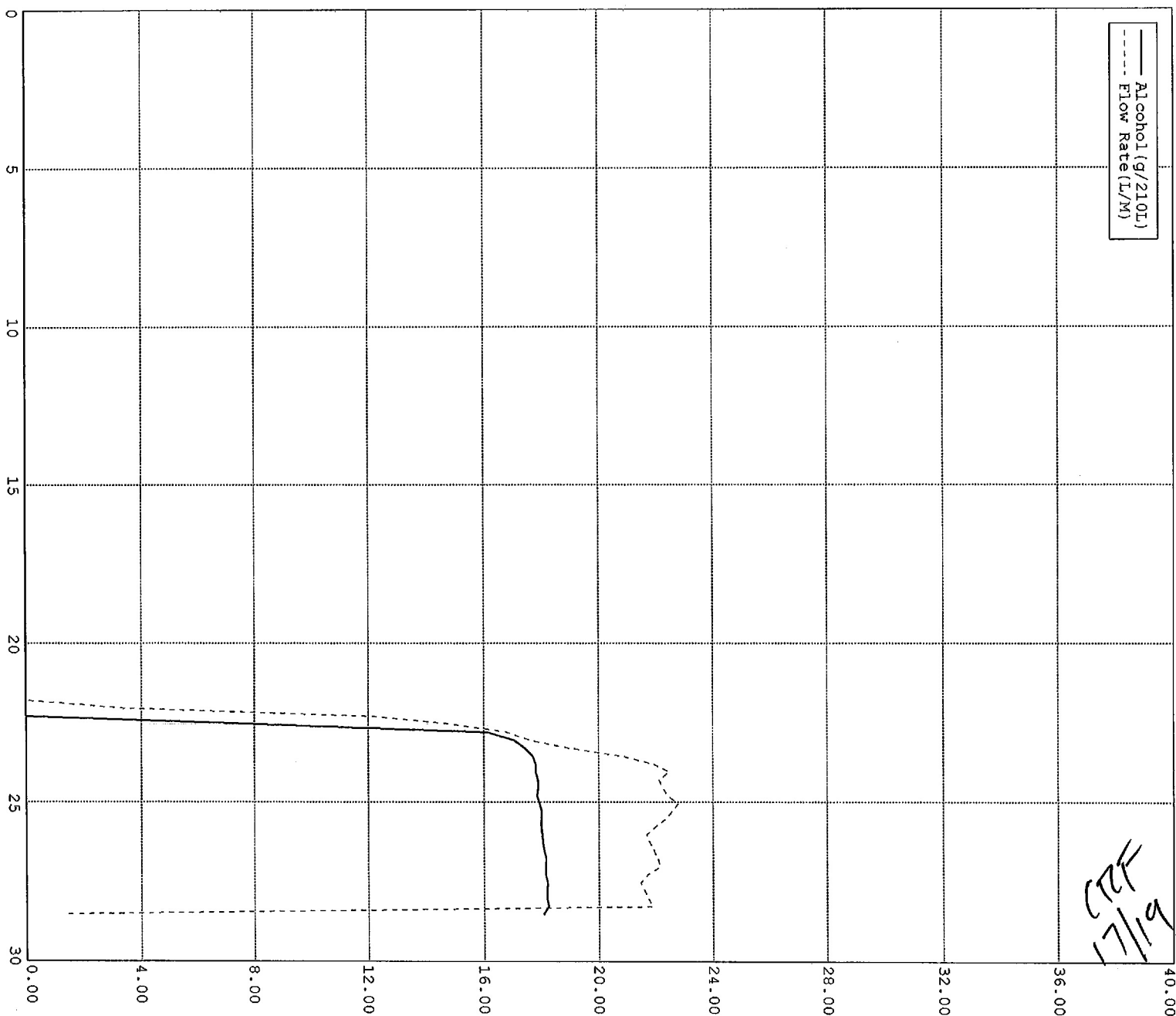
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.71: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:46
BLANK TEST	0.000	13:46
INTERNAL STANDARD	VERIFIED	13:46
Xq = 0.077 (0.11%)	0.075	13:46
EXTERNAL STANDARD	X[1] = 0.0756 (-0.0022)	(0.0007) 13:47
BLANK TEST	0.000	13:47
SUBJECT SAMPLE (Vol=2.16L)	0.091	13:48
X[1] = 0.0916 (-0.0020)	(-0.0006)	13:49
BLANK TEST	0.000	13:49
EXTERNAL STANDARD	0.075	13:49
X[1] = 0.0750 (-0.0032)	(0.0012)	13:50
BLANK TEST	0.000	13:50



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 04/10/2012
 Time: 13:58:52

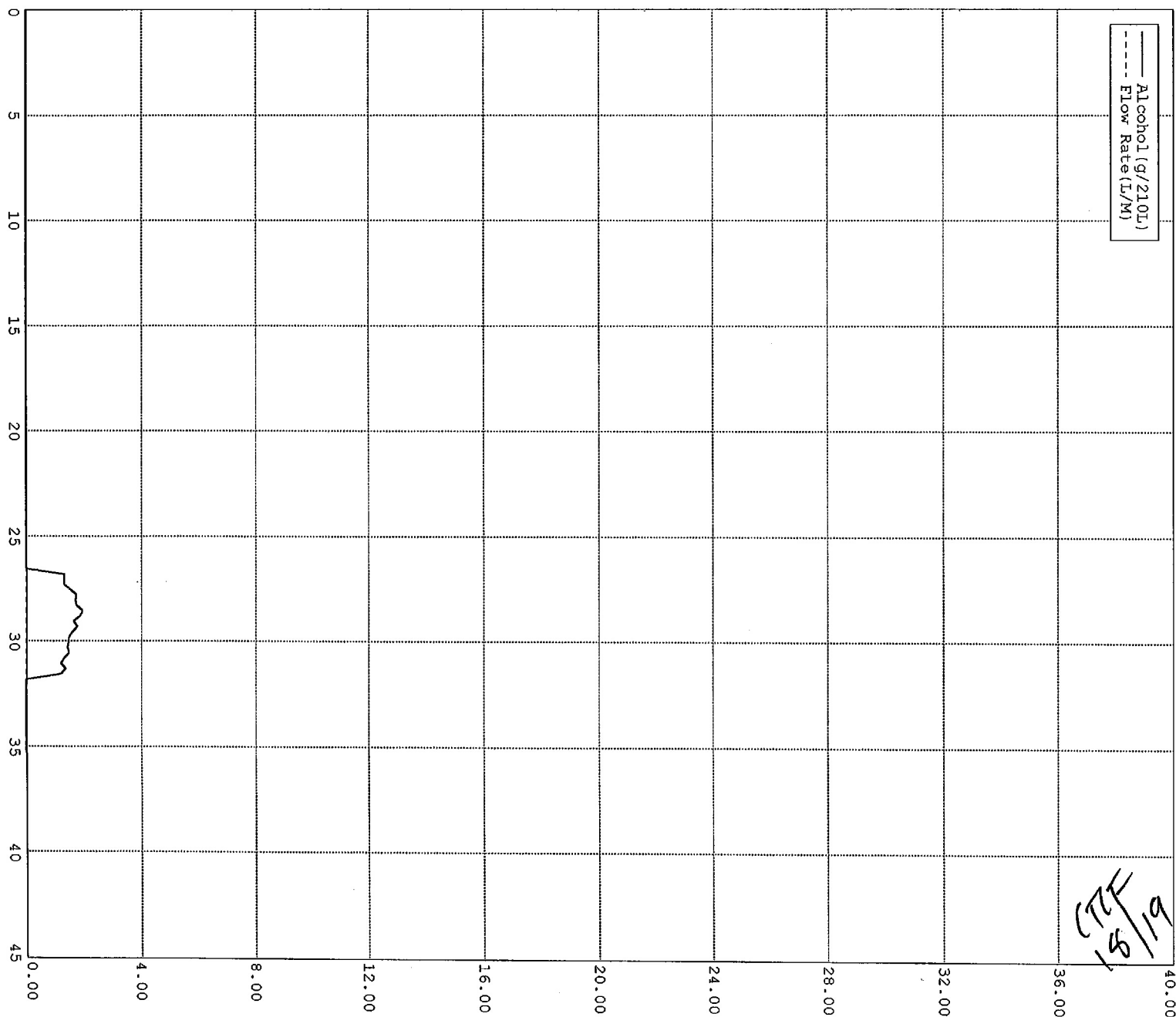
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 RFI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.71: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK
 BLANK TEST PASSED 14:00
 INTERNAL STANDARD VERIFIED 14:00
 EXTERNAL STANDARD 0.076 14:00
 BLANK TEST 0.000 14:01
 RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100371

Date: 04/10/2012
 Time: 14:29:36

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 29.70: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	14:34
BLANK TEST	0.000	14:35
INTERNAL STANDARD	VERIFIED	14:35
EXTERNAL STANDARD	0.076	14:35
BLANK TEST	0.000	14:36
SUBJECT SAMPLE	0.000	14:36
BLANK TEST	0.000	14:37
EXTERNAL STANDARD	0.076	14:37
BLANK TEST	0.000	14:38

