

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100358 Analyst CRF Start Date 7/17/12
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 3/1/13
 - ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13
 - iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14
 - iv. 0.100g/210L Mnf ILMO Lot 0761100A3 Exp 3/1/13
 - v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/13
 - 1. Simulator S/N DR4163 Date Calibrated 8/18/11
 - vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/13
 - 1. Simulator S/N SD1176 Date Calibrated 8/17/11

5. Functional Tests (attached)

- a. Incomplete
- b. Invalid
- c. Interference

- i. Acetone - Mnf Guth Lot 11250 Level 0.10 Exp 12/6/13
 - 1. Simulator S/N SD1199 Date Calibrated 1/11/12
- ii. Isopropanol - Mnf Guth Lot 11100 Level 0.10 Exp 7/6/13
 - 1. Simulator S/N DR6267 Date Calibrated 1/10/12
- iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/13
 - 1. Simulator S/N SD1202 Date Calibrated 8/17/11

d. 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 A/A

End Date 7/23/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 07/17/2012
Time: 09:43:11

VERSIONS
DMT: 2.00
PIC: 3.03
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.8°C PASSED
Breath Tube = 48.1°C PASSED

PUMP INFO
Flow Rate = 5.099 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 WF

Technician Screen

DATAMASTER dmt: 100358

Date: 07/17/2012
Time: 9:50 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 48.0°C

Current Barometer 30.0 in
Volume (Ltr) 1.54

Settings
Lamp: 1.65 V
Bias: 80 V
Cooler: 1.68 V
Chopper: 539 Hz

Voltages (V)
Flow: 1.04 V
Detector: 0.058 V

3/19 WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 07/11/2012
Time: 15:26:03

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca	=	0.1000		
CAL	=	0.988368	0.800	<= CAL < 1.200
b1	=	0.0001	0.0000	<= b1 < 0.0040
b2	=	0.0060	0.0010	<= b2 < 0.0100
b3	=	0.0001	0.0000	<= b3 < 0.0040
Xq	=	0.0918	0.0500	<= Xq < 0.2000
a21	=	1.202201	1.050	<= a21 < 1.300
a31	=	0.432470	0.300	<= a31 < 0.800

4/19 WF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 07/17/2012
 Time: 10:35:42

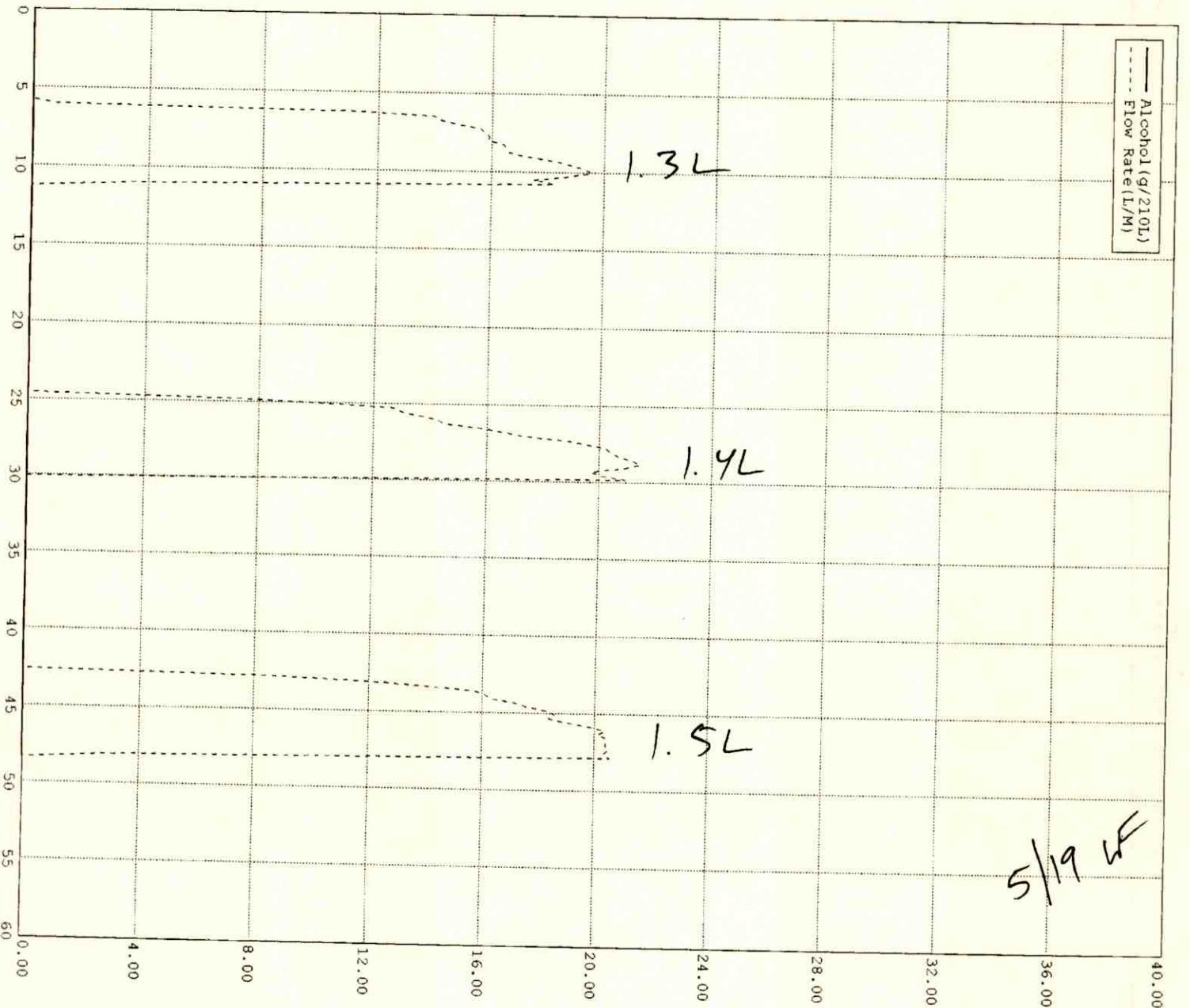
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:38
BLANK TEST	0.000	10:38
INTERNAL STANDARD	VERIFIED	10:38
EXTERNAL STANDARD	0.078	10:38
BLANK TEST	0.000	10:39
SUBJECT SAMPLE	0.000	10:40
BLANK TEST	0.000	10:41
EXTERNAL STANDARD	0.079	10:41
BLANK TEST	0.000	10:42



LINEARITY CHECK

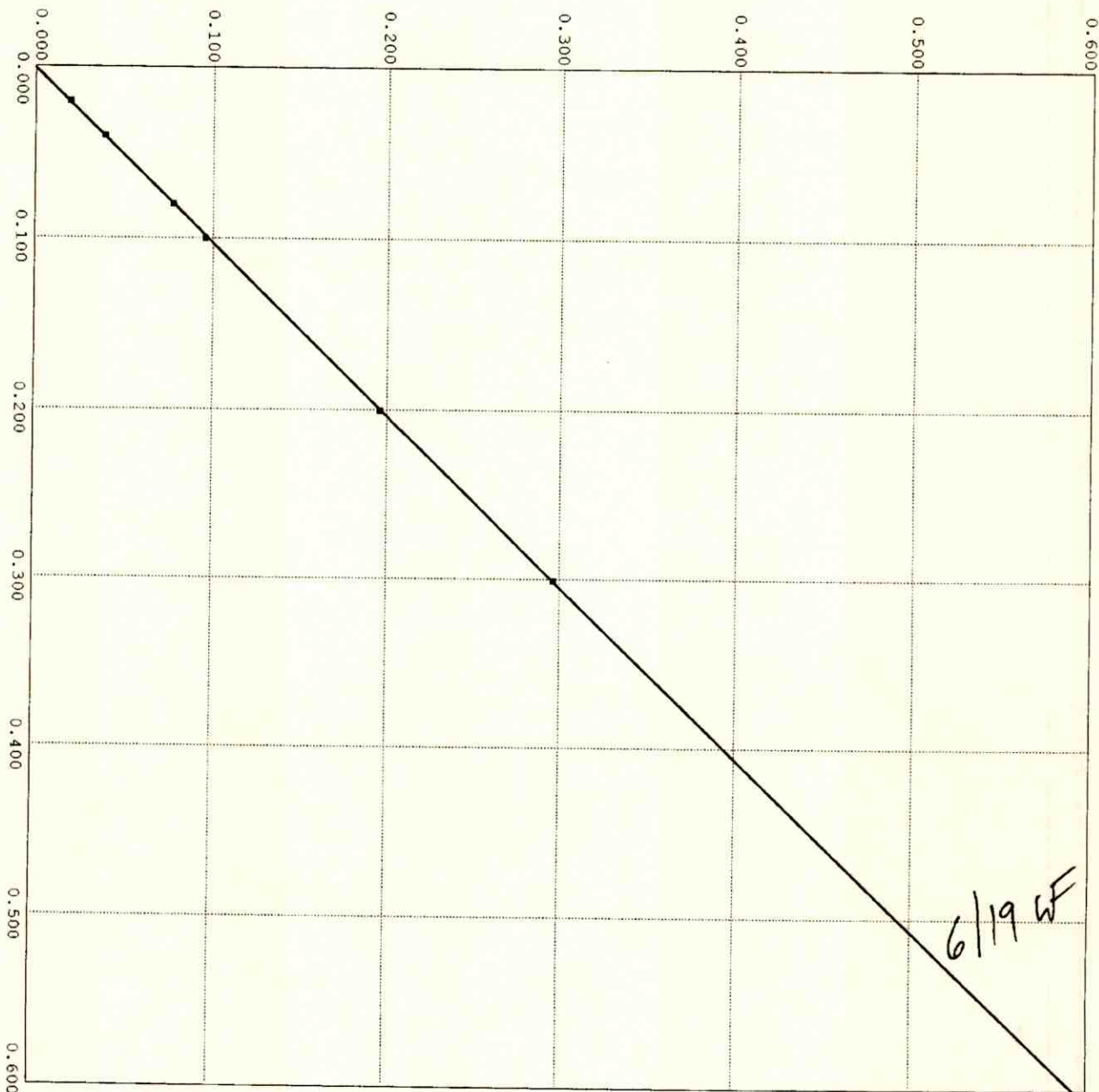
Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 07/17/2012
 Time: 11:19:44

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0201	0.0004
0.040	0.0398	0.0003
0.080	0.0785	0.0002
0.100	0.0968	0.0002
0.200	0.1972	0.0007
0.300	0.2971	0.0005

SLOPE = 0.989873
 R² = 0.999922



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

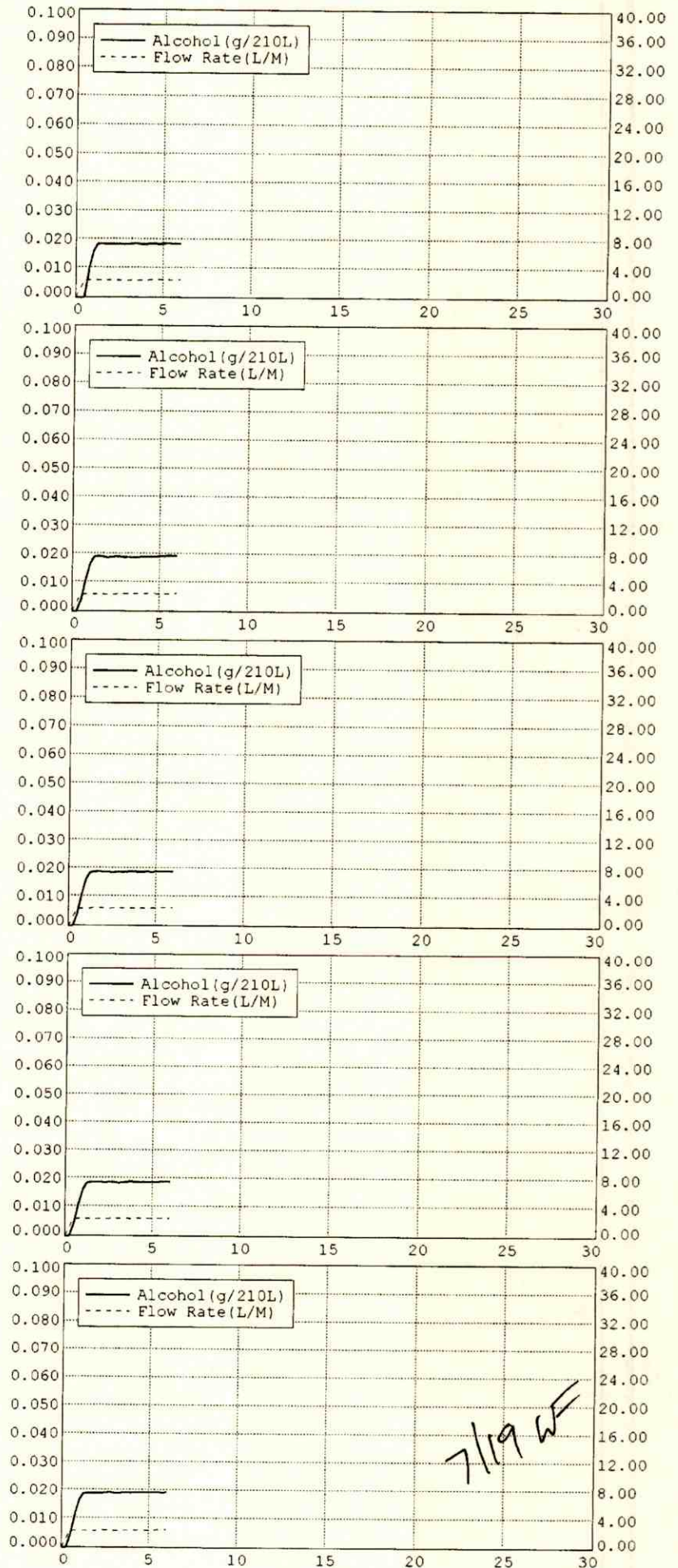
Date: 07/17/2012
 Time: 11:19:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.97: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
EXTERNAL STANDARD	0.019	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.020	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.019	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.019	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.020	11:26
BLANK TEST	0.000	11:26

Average = 0.0201
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

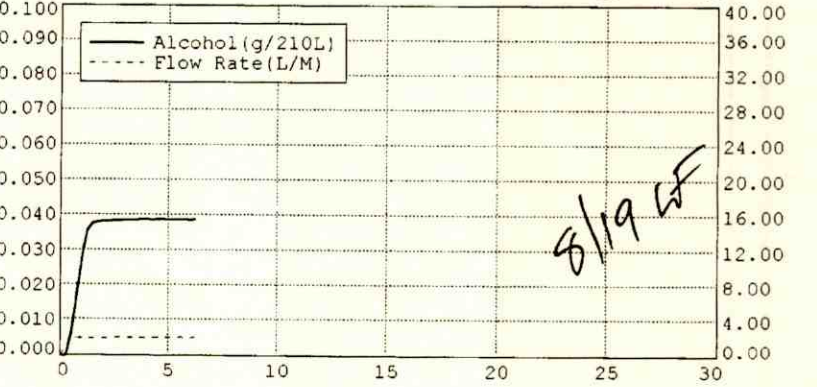
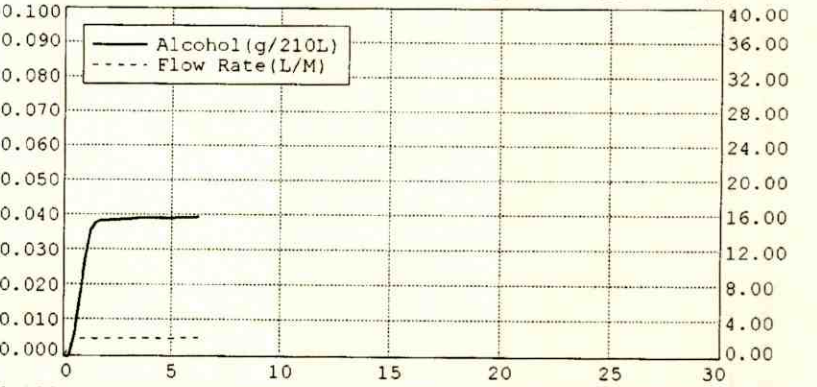
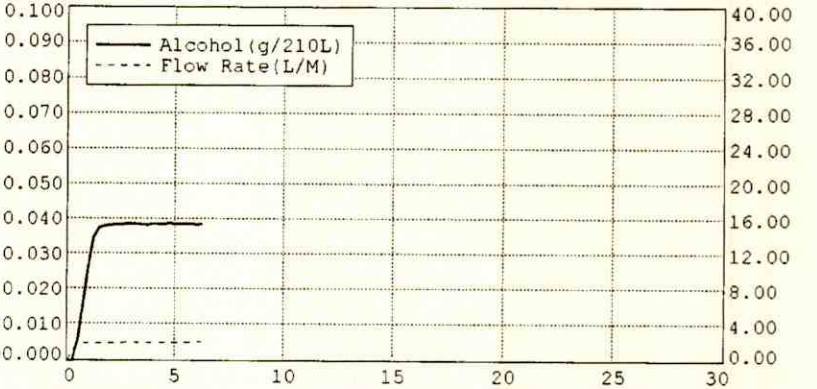
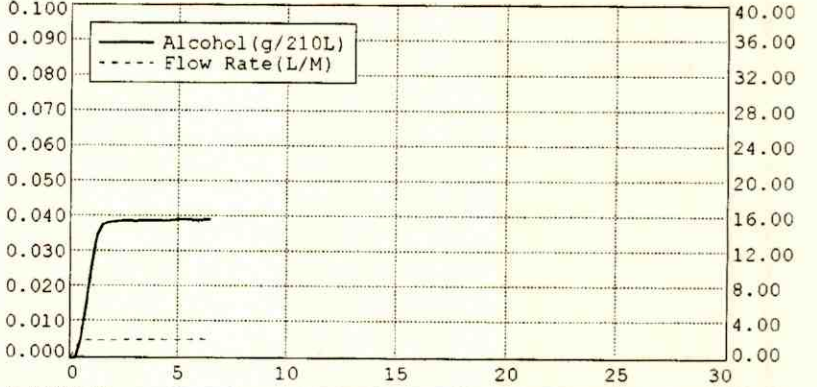
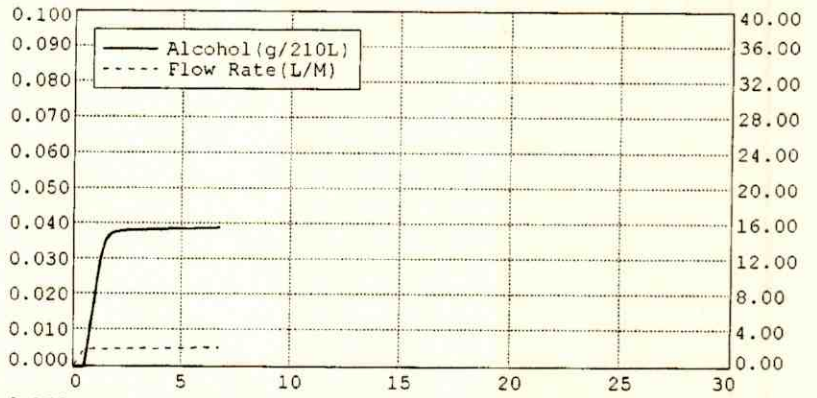
Date: 07/17/2012
 Time: 11:27:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.97: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:28
INTERNAL STANDARD	VERIFIED	11:28
EXTERNAL STANDARD	0.039	11:29
BLANK TEST	0.000	11:30
EXTERNAL STANDARD	0.039	11:30
BLANK TEST	0.000	11:31
EXTERNAL STANDARD	0.039	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.040	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.039	11:33
BLANK TEST	0.000	11:34

Average = 0.0398
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

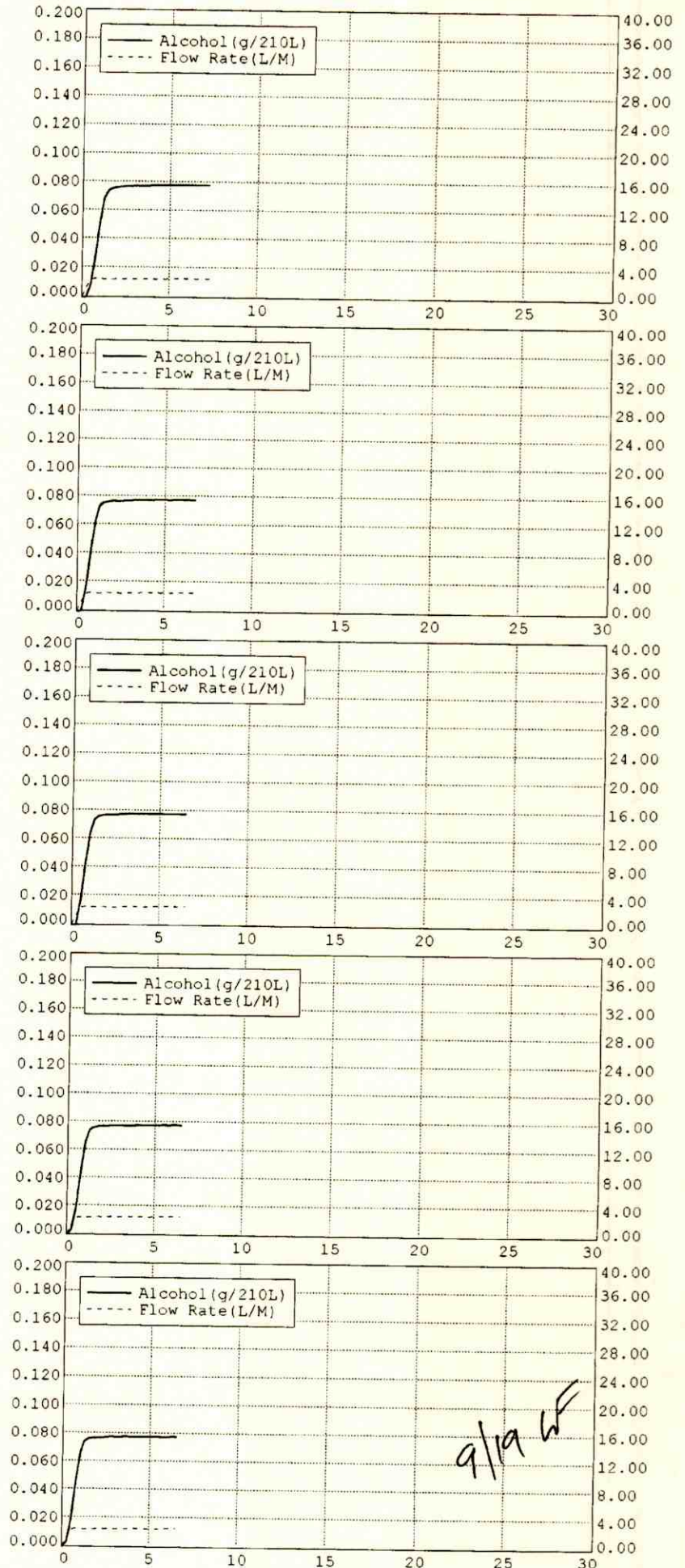
Date: 07/17/2012
 Time: 11:35:35

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.98: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

BLANK TEST	0.000	11:36
INTERNAL STANDARD	VERIFIED	11:36
EXTERNAL STANDARD	0.078	11:37
BLANK TEST	0.000	11:38
EXTERNAL STANDARD	0.078	11:38
BLANK TEST	0.000	11:39
EXTERNAL STANDARD	0.078	11:39
BLANK TEST	0.000	11:40
EXTERNAL STANDARD	0.078	11:40
BLANK TEST	0.000	11:41
EXTERNAL STANDARD	0.078	11:41
BLANK TEST	0.000	11:42

Average = 0.0785
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

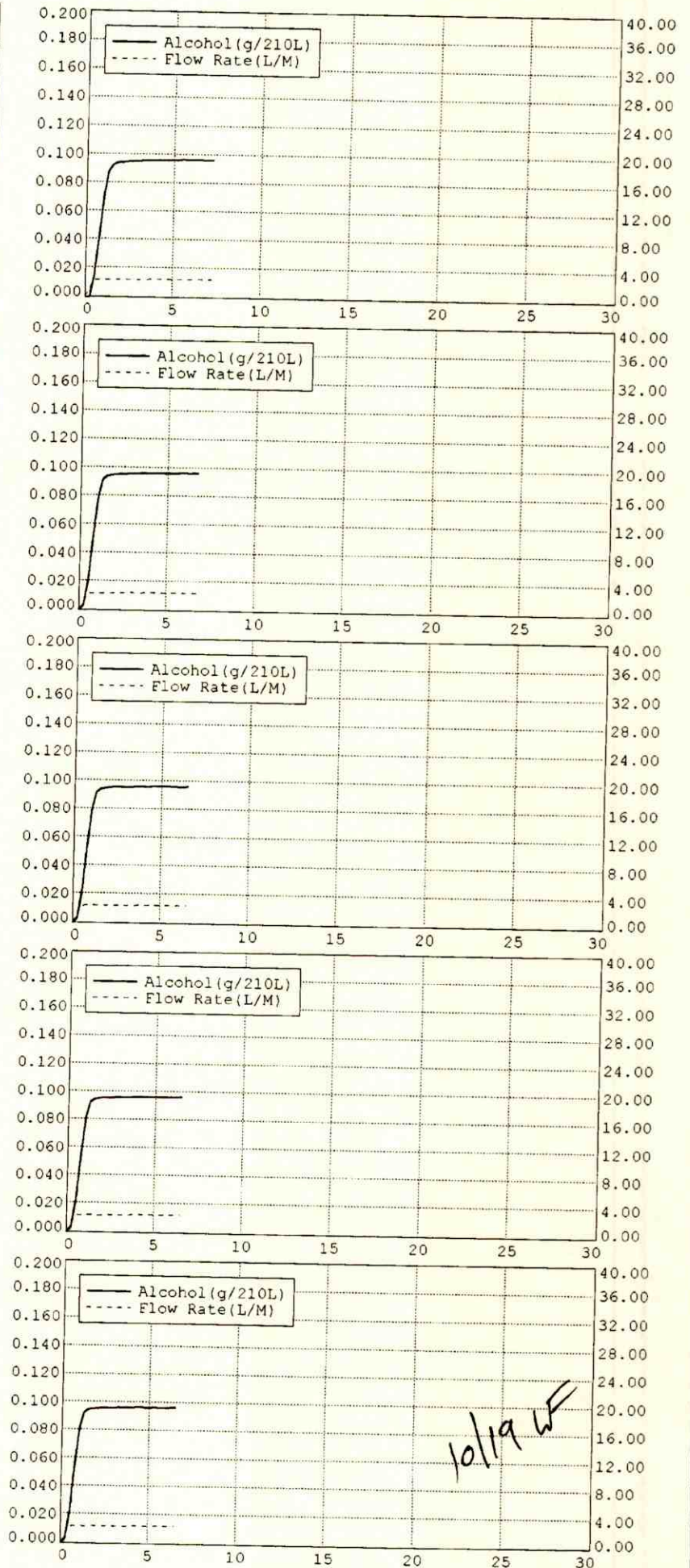
Date: 07/17/2012
 Time: 11:43:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.97: 0.100
 LOT #: 07611100A3
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:44
INTERNAL STANDARD	VERIFIED	11:44
EXTERNAL STANDARD	0.097	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.096	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.096	11:47
BLANK TEST	0.000	11:48
EXTERNAL STANDARD	0.096	11:48
BLANK TEST	0.000	11:49
EXTERNAL STANDARD	0.097	11:49
BLANK TEST	0.000	11:50

Average = 0.0968
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

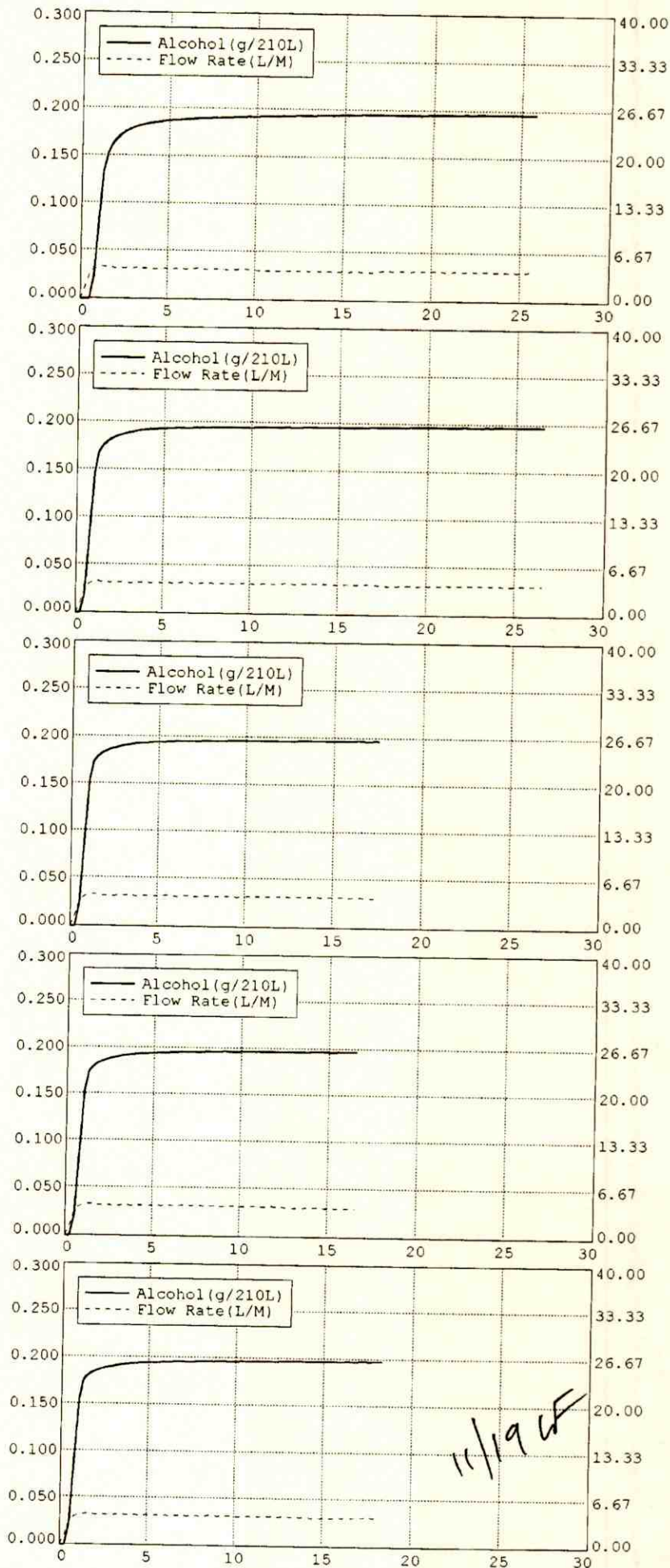
Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 07/17/2012
 Time: 11:51:00

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

BLANK TEST	0.000	11:52
INTERNAL STANDARD	VERIFIED	11:52
EXTERNAL STANDARD	0.196	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.197	11:54
BLANK TEST	0.000	11:55
EXTERNAL STANDARD	0.197	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.197	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.197	11:58
BLANK TEST	0.000	11:59

Average = 0.1972
 Std Dev = 0.0007



LINEARITY CHECK: Control Test 6

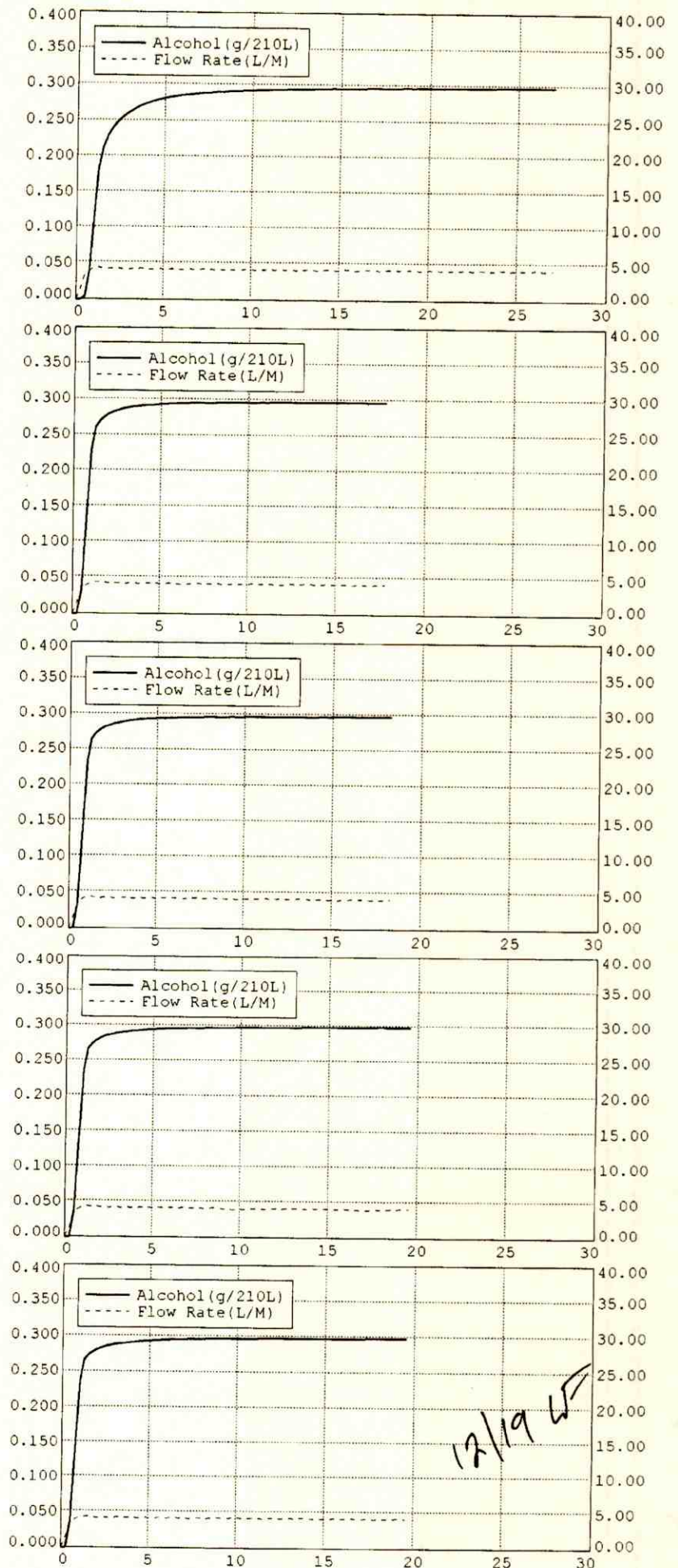
Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 07/17/2012
 Time: 12:06:09

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.300
 LOT #: 11110
 EXPIRATION: 07/13/2013

BLANK TEST	0.000	12:07
INTERNAL STANDARD	VERIFIED	12:07
EXTERNAL STANDARD	0.296	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.296	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.296	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.297	12:12
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.297	12:13
BLANK TEST	0.000	12:14

Average = 0.2971
 Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 07/17/2012
Time: 14:53:57

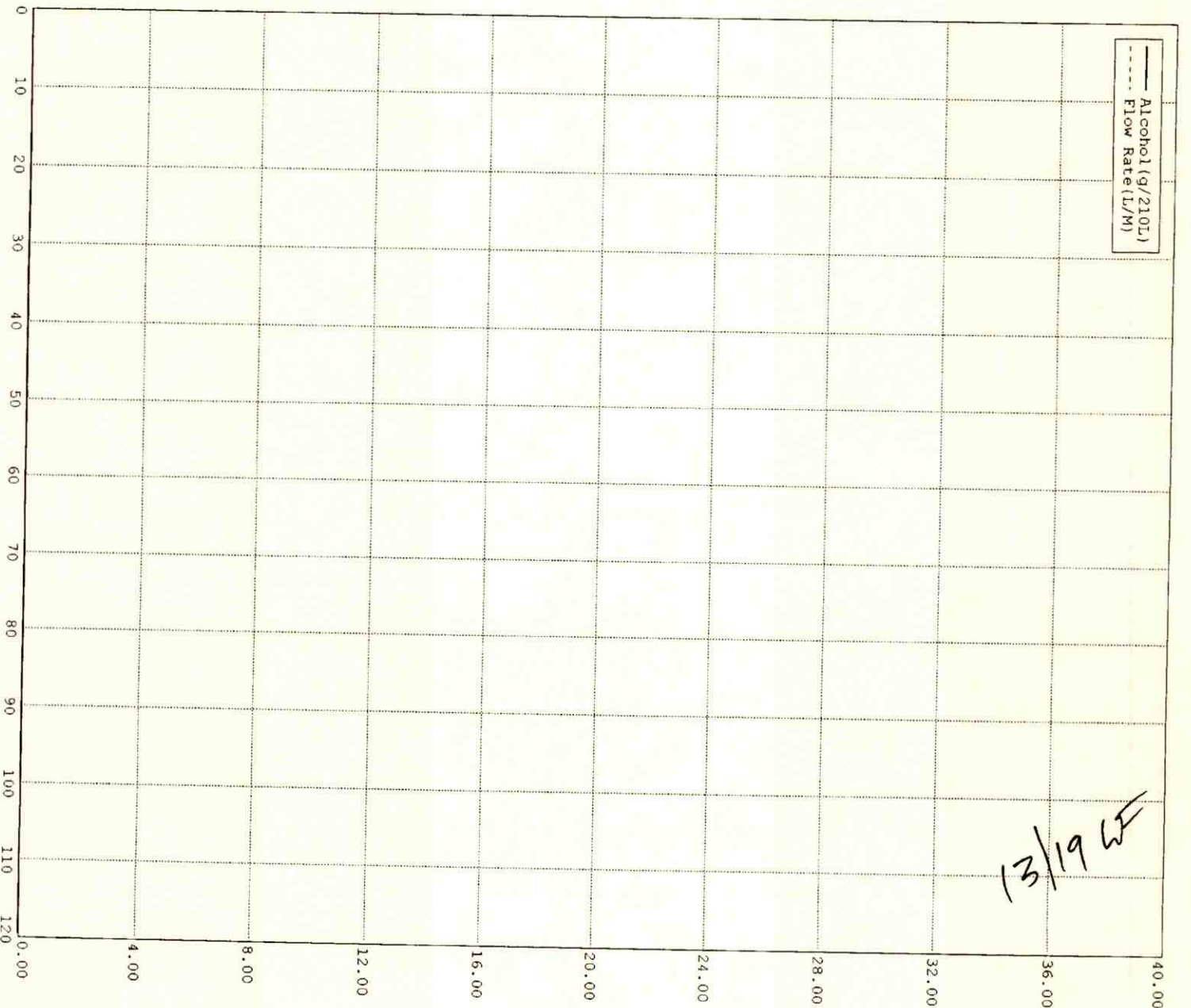
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:56
BLANK TEST	0.000	14:56
INTERNAL STANDARD	VERIFIED	14:56
EXTERNAL STANDARD	0.078	14:57
BLANK TEST	0.000	14:57
SUBJECT SAMPLE	INCOMPLETE	15:00



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 07/17/2012
Time: 15:05:02

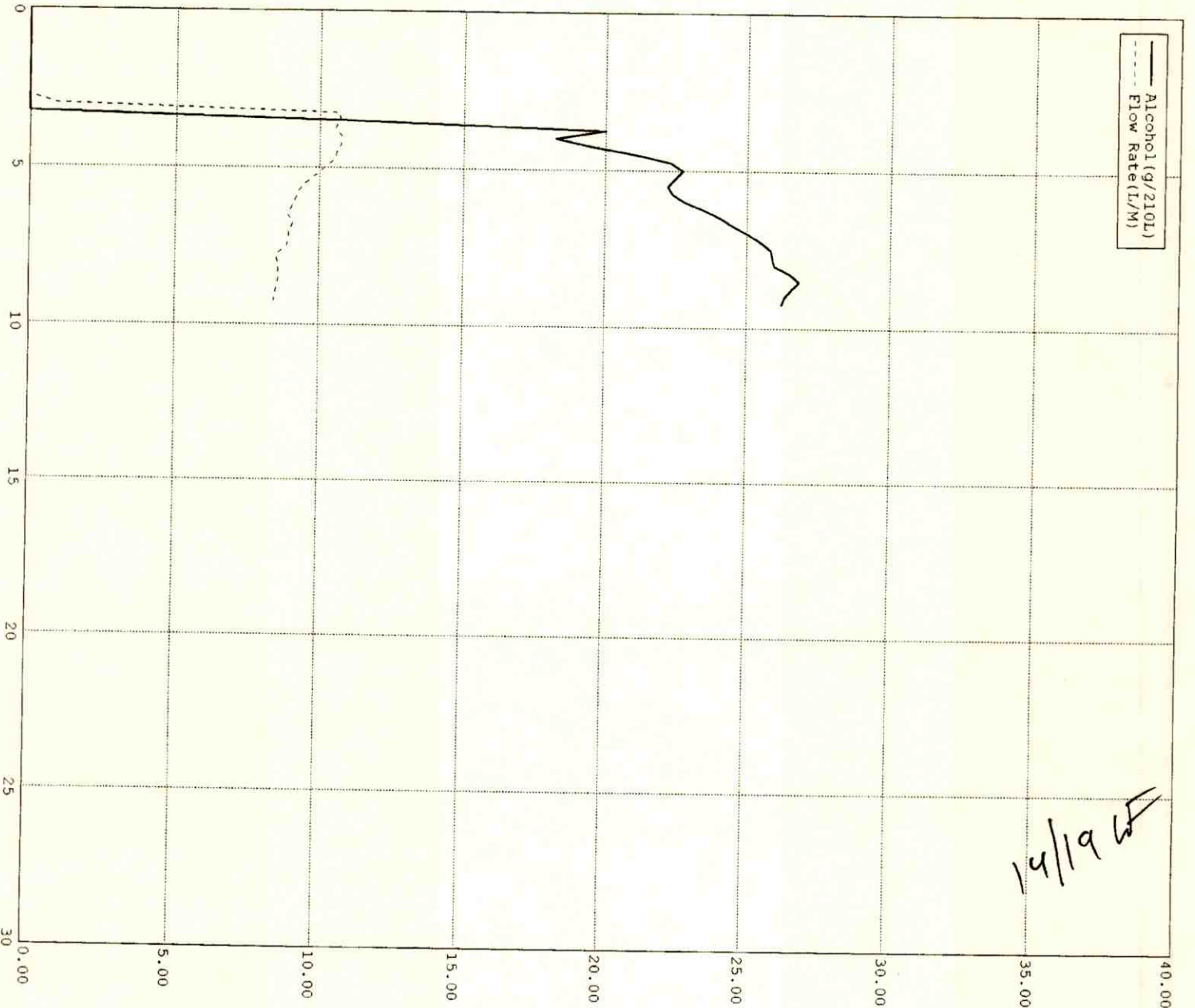
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.92: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:08
BLANK TEST	0.000	15:08
INTERNAL STANDARD	VERIFIED	15:09
EXTERNAL STANDARD	0.078	15:09
BLANK TEST	0.000	15:10
SUBJECT SAMPLE	INVALID	15:10



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 07/18/2012
 Time: 14:40:53

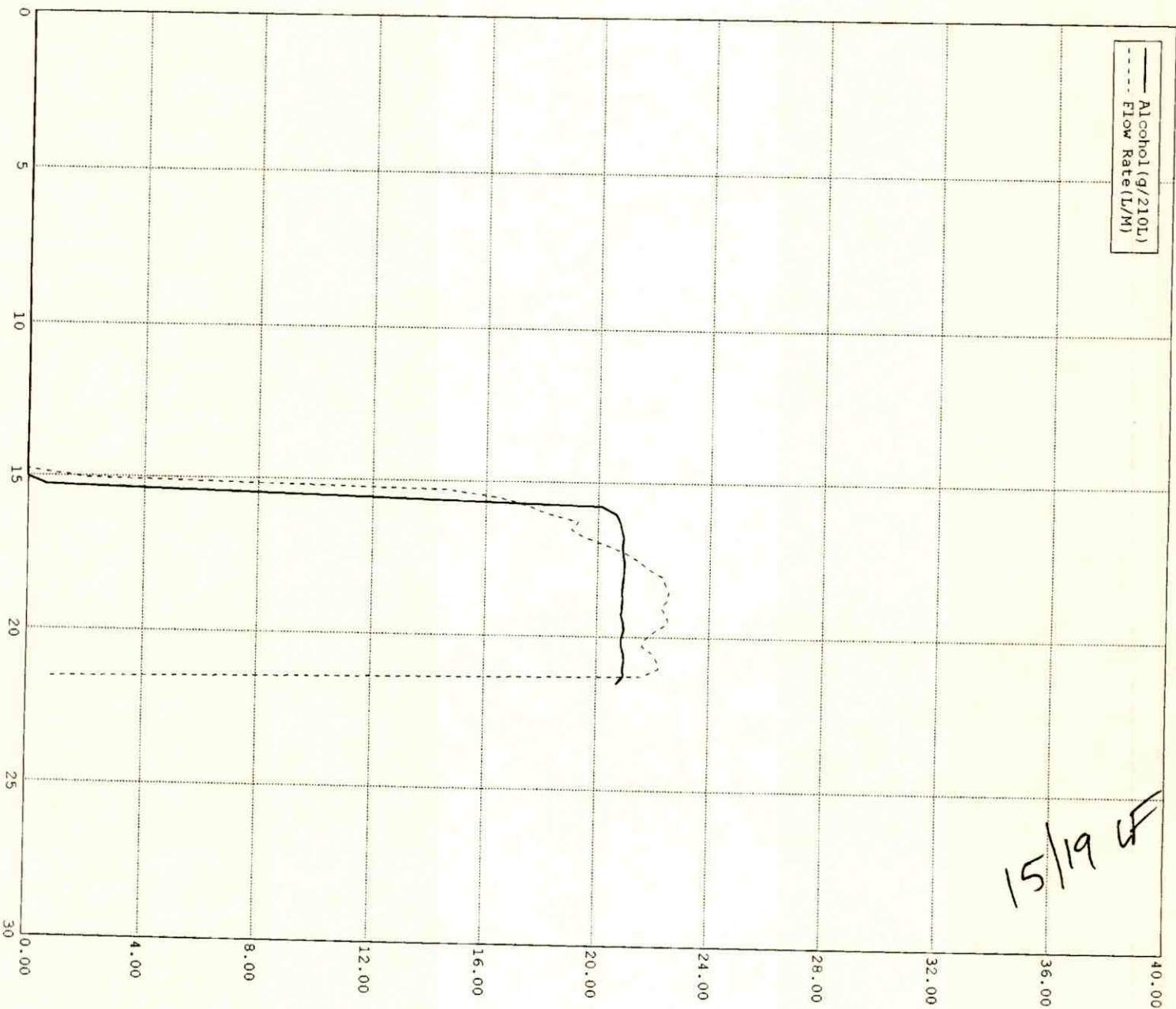
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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 #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:52
BLANK TEST	0.000	14:52
INTERNAL STANDARD	VERIFIED	14:53
Xq = 0.092 (0.10%)		
EXTERNAL STANDARD	0.078	14:53
X[1] = 0.0782 (-0.0005) (0.0022)		
BLANK TEST	0.000	14:54
SUBJECT SAMPLE	INTERFERENCE	14:54
X[1] = 0.1038 (-0.0189) (-0.0003)		



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 07/18/2012
Time: 14:59:05

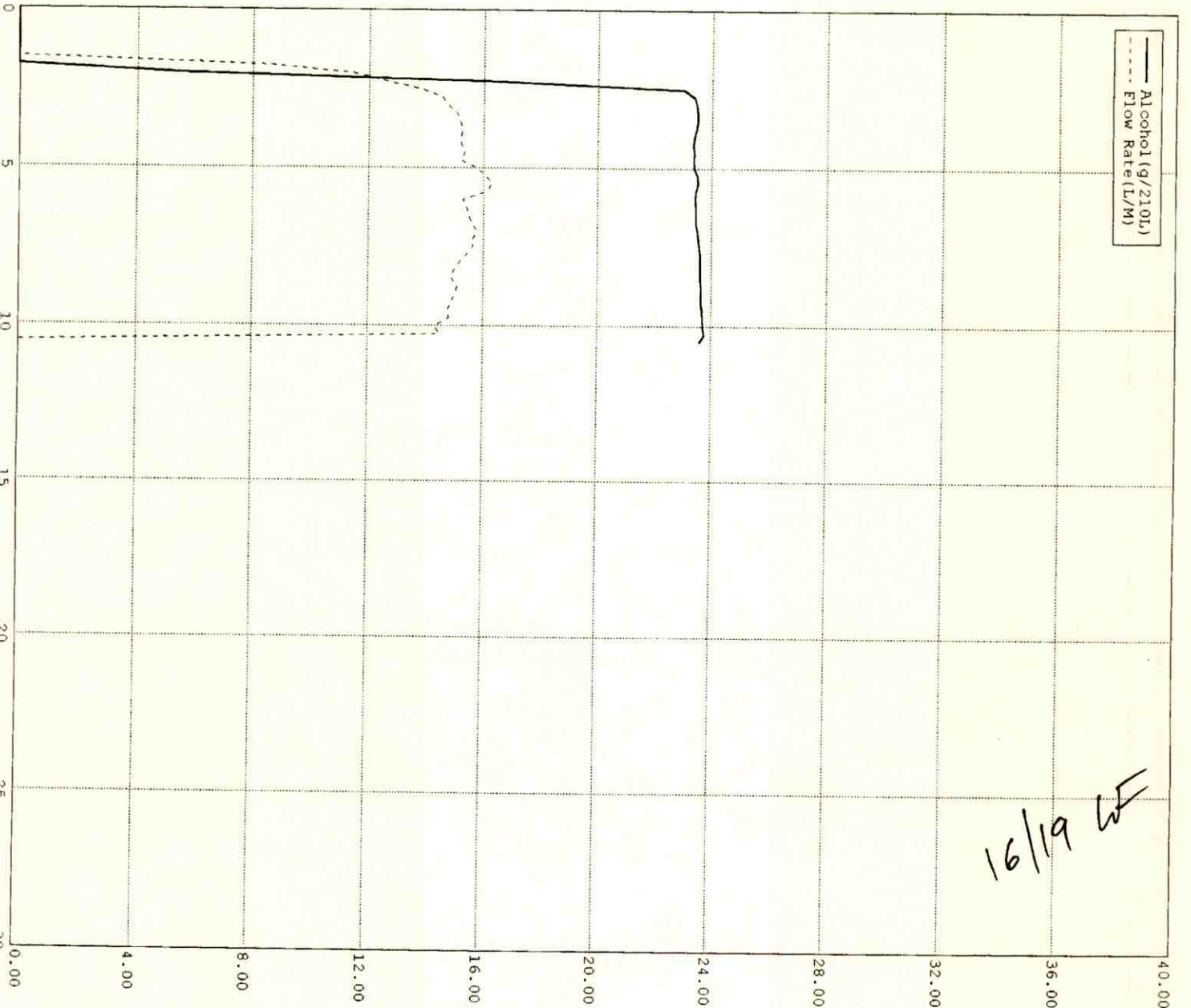
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.80: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:03
BLANK TEST	0.000	15:04
INTERNAL STANDARD	VERIFIED	15:04
Xg = 0.092 (0.00%)		
EXTERNAL STANDARD	0.078	15:04
X[1] = 0.0781 (-0.0004)	(0.0026)	
BLANK TEST	0.000	15:05
SUBJECT SAMPLE	INTERFERENCE	15:05
X[1] = 0.1185 (-0.0261)	(0.0023)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 07/18/2012
 Time: 15:09:02

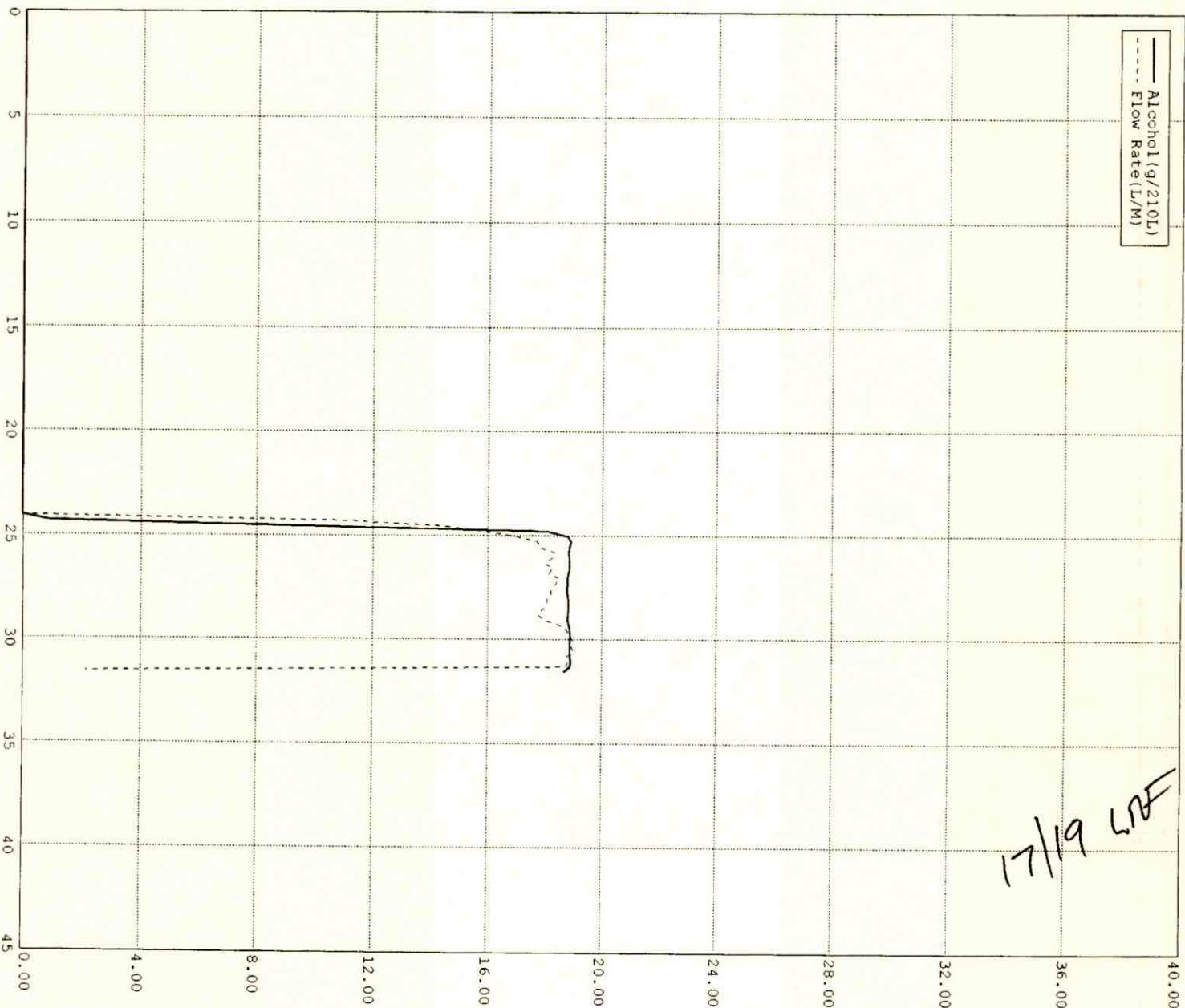
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 INTERFERENCE ETOH ONLY
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.80: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:15
BLANK TEST	0.000	15:15
INTERNAL STANDARD	VERIFIED	15:15
Xg = 0.092 (0.29%)		
EXTERNAL STANDARD	0.078	15:16
X[1] = 0.0783 (-0.0008)	(0.0025)	
BLANK TEST	0.000	15:17
SUBJECT SAMPLE (Vol=2.16L)	0.094	15:17
X[1] = 0.0942 (0.0012)	(0.0004)	
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.077	15:18
X[1] = 0.0779 (-0.0010)	(0.0017)	
BLANK TEST	0.000	15:19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100358

Date: 07/17/2012
Time: 15:16:13

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

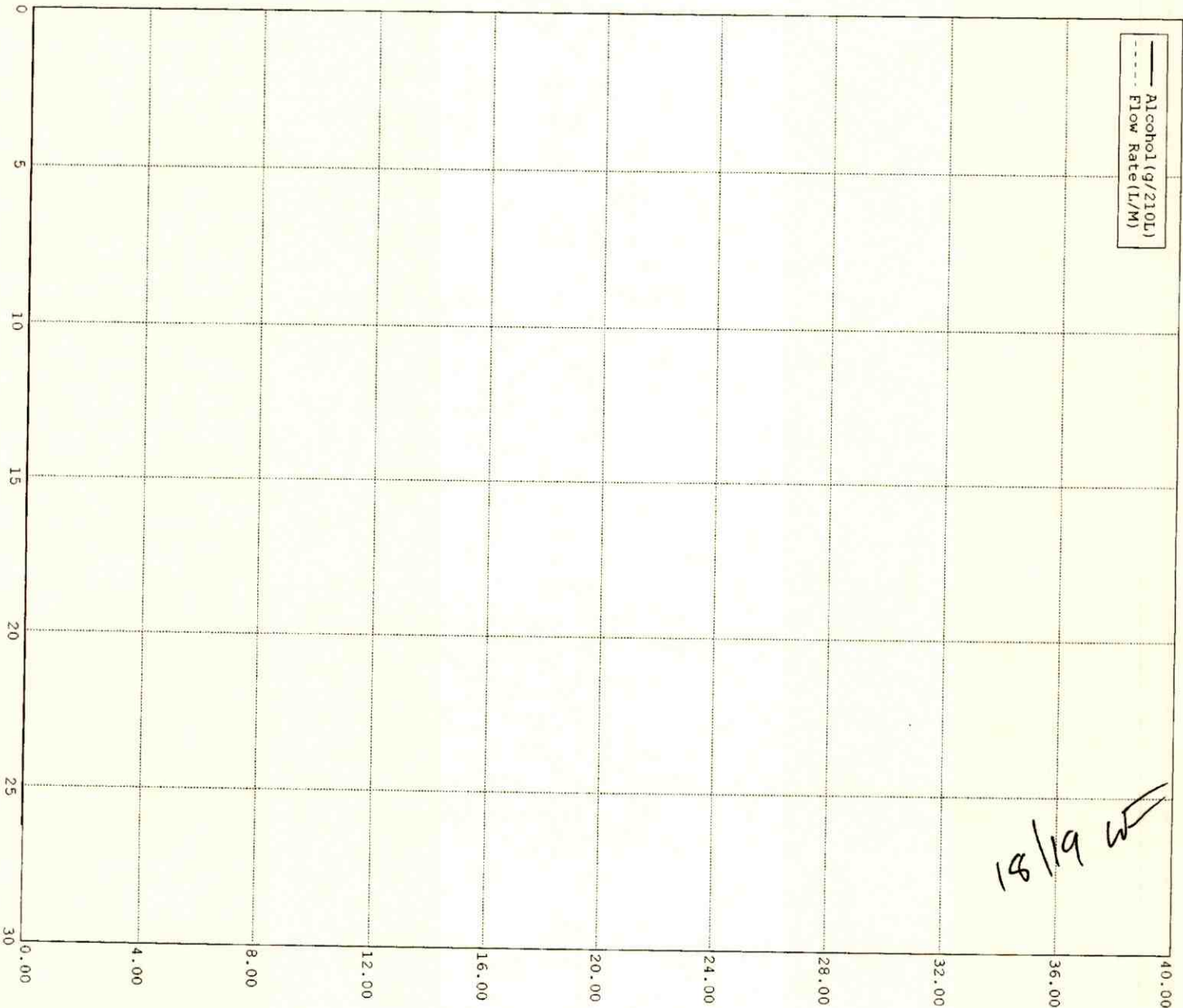
OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.91: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:18
BLANK TEST	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
EXTERNAL STANDARD	0.078	15:19
BLANK TEST	0.000	15:19

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100358

Date: 07/18/2012
 Time: 15:55:18

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 29.79: 0.079
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:56
BLANK TEST	0.000	15:56
INTERNAL STANDARD	0.078	15:56
EXTERNAL STANDARD	0.000	15:57
BLANK TEST	0.000	15:58
SUBJECT SAMPLE	0.000	15:59
EXTERNAL STANDARD	0.079	15:59
BLANK TEST	0.000	16:00

