

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

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

Version: DMCEF2012 R1
Status: Active

Instrument S/N 100352 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 1600 mL (1.3L to 1.7L)

4. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13
- 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 07611100A3 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 W/A

End Date 7/23/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 07/17/2012
Time: 09:45:49

VERSIONS

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

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 47.1°C	PASSED

PUMP INFO

Flow Rate = 4.856 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

PASSED

2/19 WF

Technician Screen

DATAMASTER dmt: 100352

Date: 07/17/2012
Time: 10:29 AM

Temperatures (°C)
Sample Cell: 48.7°C
Breath Tube: 47.8°C

Current Barometer 30.0 in
Volume (Ltr) 1.48

Settings
Lamp: 1.75 V
Bias: 80 V
Cooler: 1.73 V
Chopper: 545 Hz

Voltages (V)
Flow: 1.04 V
Detector: -0.014 V

3/19 WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 07/11/2012
Time: 14:15:32

OPERATOR NAME:
BRANDI BARNETT
CERTIFICATE #: 7038

Ca = 0.1000
CAL = 0.970902 0.800 <= CAL < 1.200
b1 = 0.0005 0.0000 <= b1 < 0.0040
b2 = 0.0058 0.0010 <= b2 < 0.0100
b3 = 0.0009 0.0000 <= b3 < 0.0040
Xq = 0.0889 0.0500 <= Xq < 0.2000
a21 = 1.137079 1.050 <= a21 < 1.300
a31 = 0.441688 0.300 <= a31 < 0.800

4/19 WF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 07/17/2012
 Time: 10:38:01

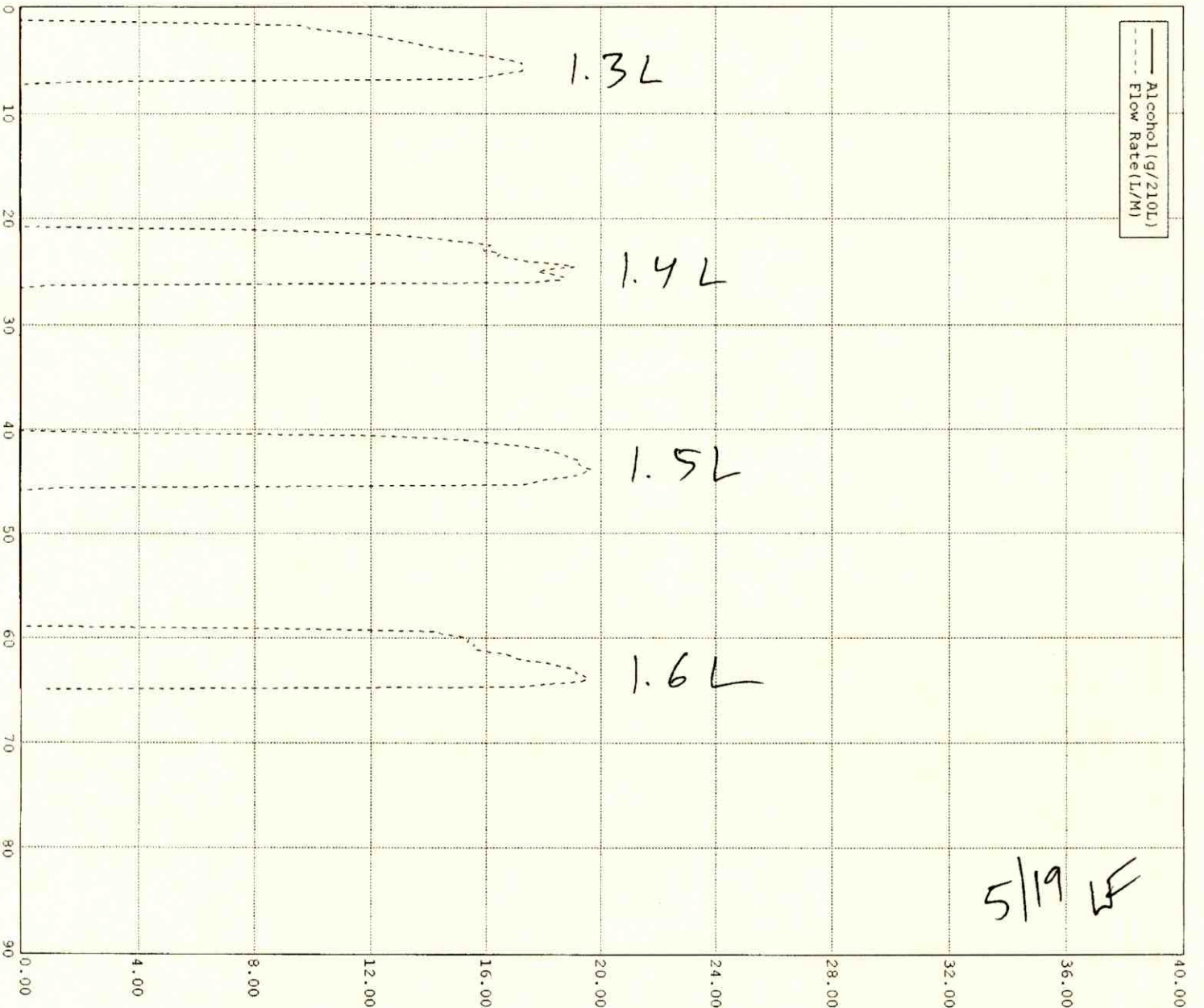
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 MINIMUM VOLUME
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.99: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	10:49
BLANK TEST	0.000	10:49
INTERNAL STANDARD	VERIFIED	10:49
EXTERNAL STANDARD	0.078	10:49
BLANK TEST	0.000	10:50
SUBJECT SAMPLE	0.000	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.078	10:53
BLANK TEST	0.000	10:54



LINEARITY CHECK

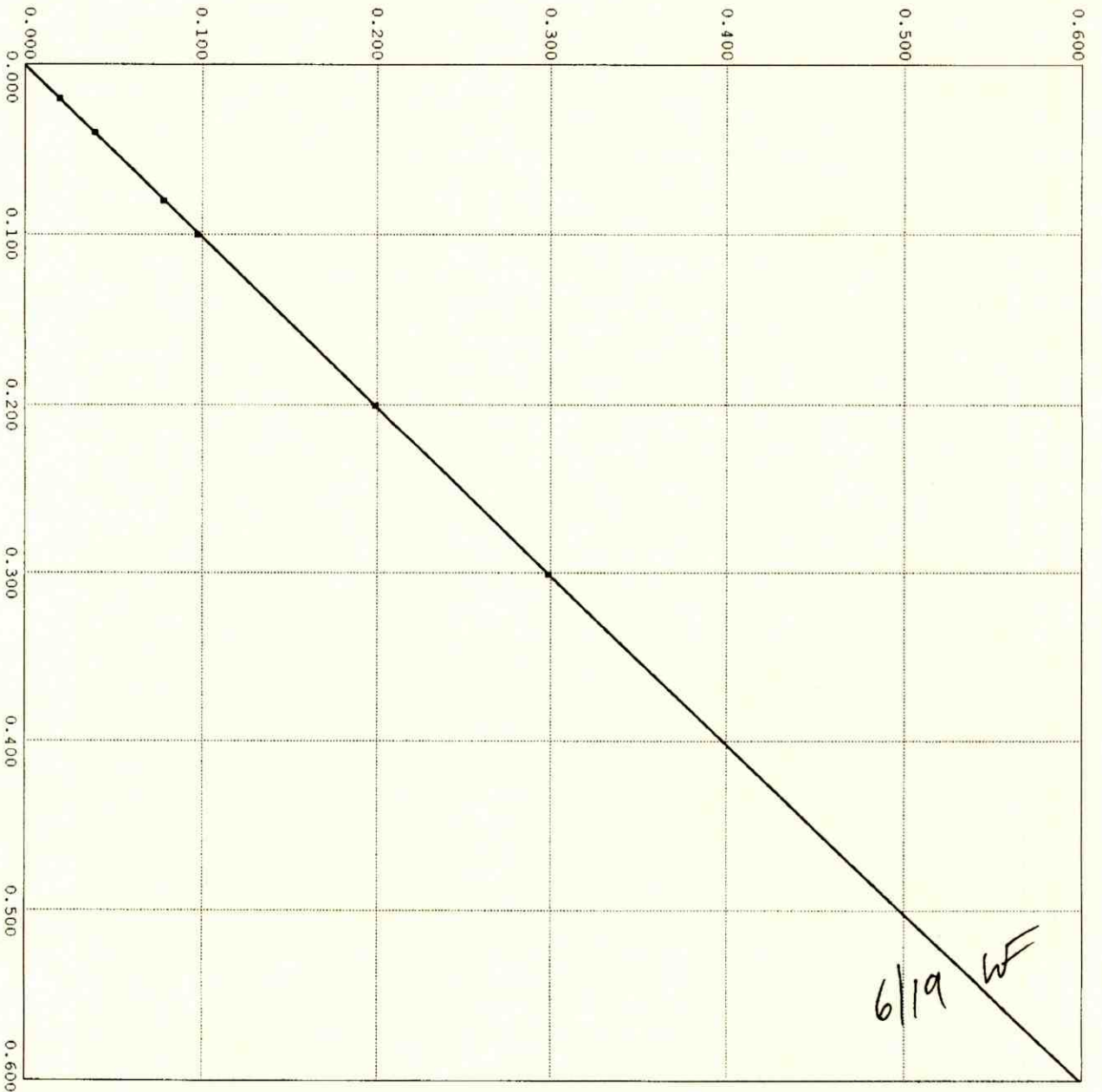
Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 07/17/2012
 Time: 11:48:11

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.020	0.0201	0.0003
0.040	0.0401	0.0002
0.080	0.0791	0.0005
0.100	0.0983	0.0003
0.200	0.1997	0.0004
0.300	0.2993	0.0003

SLOPE = 0.998391
 R² = 0.999960



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

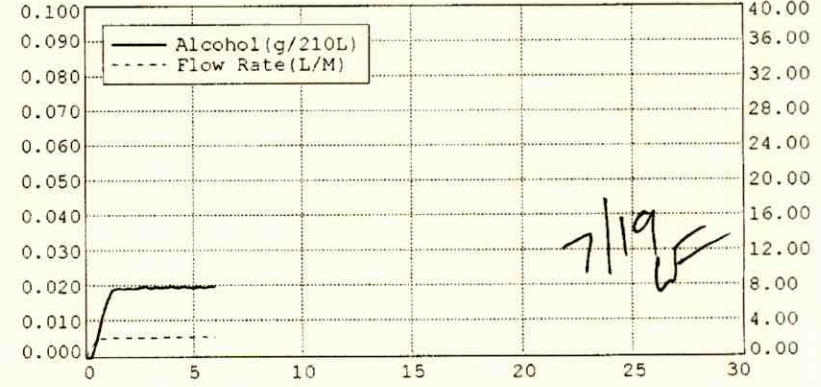
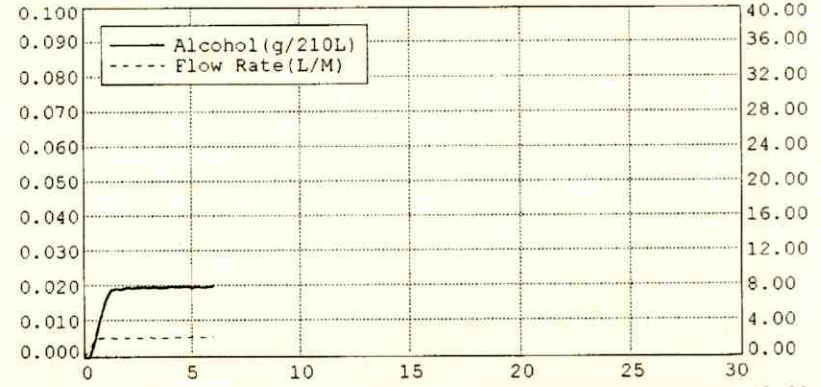
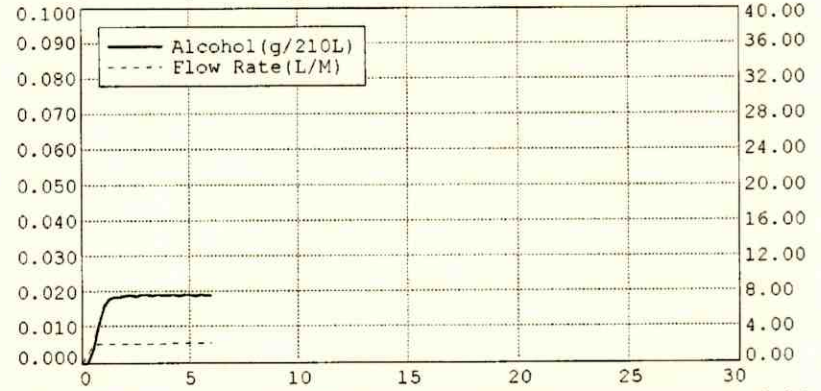
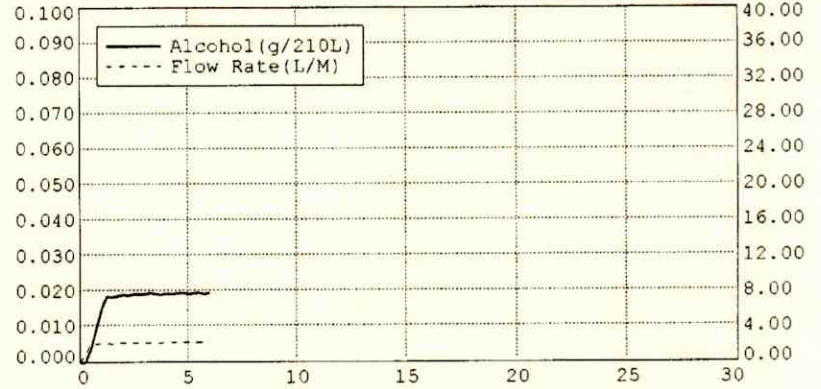
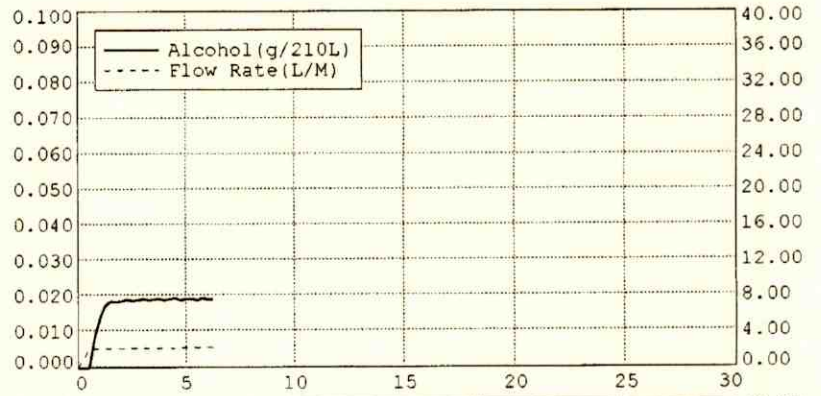
Date: 07/17/2012
 Time: 11:48:12

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.99: 0.020
 LOT #: 07611020A5
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:49
INTERNAL STANDARD	VERIFIED	11:49
EXTERNAL STANDARD	0.019	11:49
BLANK TEST	0.000	11:50
EXTERNAL STANDARD	0.019	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.020	11:52
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.020	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.020	11:54
BLANK TEST	0.000	11:55

Average = 0.0201
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

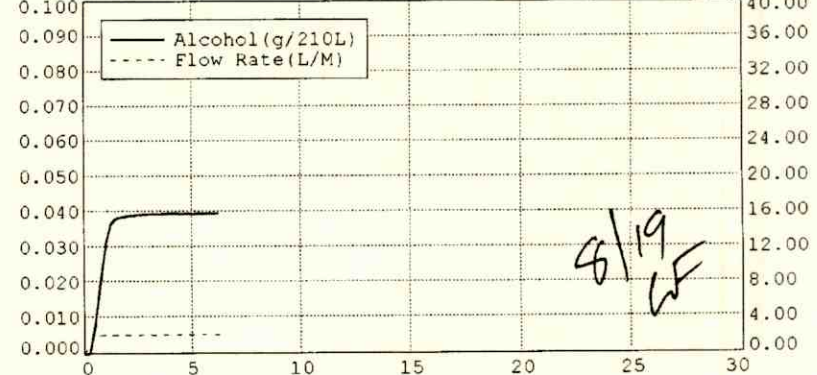
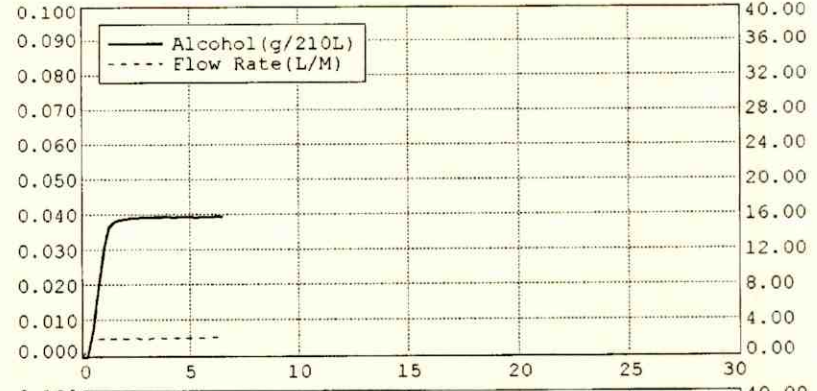
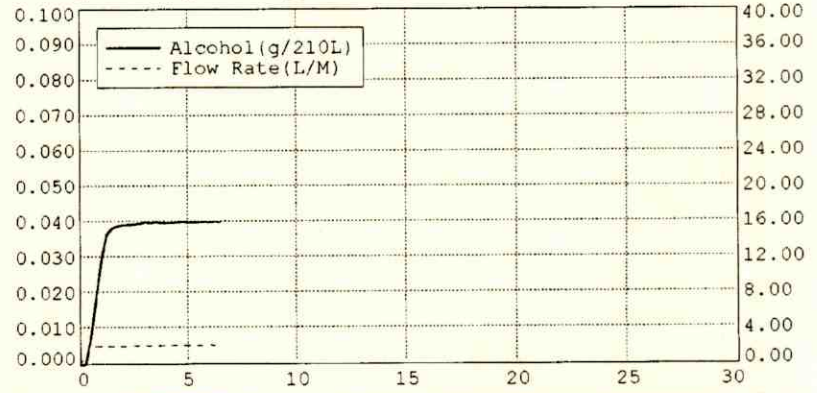
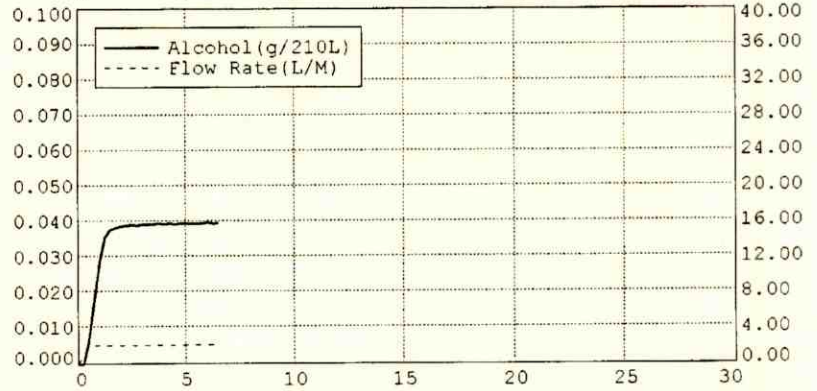
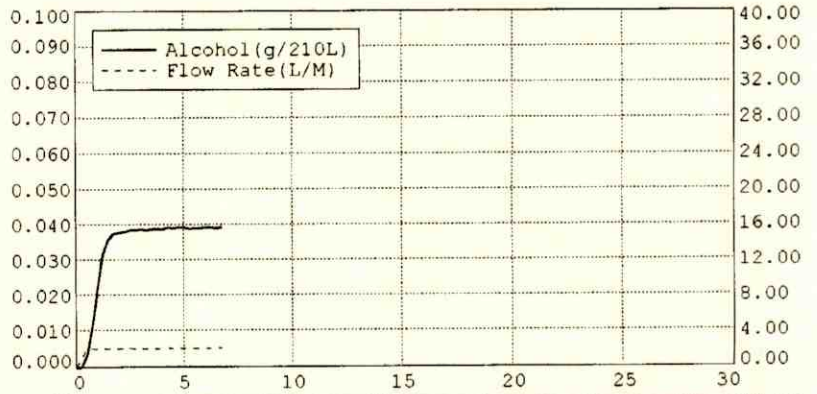
Date: 07/17/2012
 Time: 11:55:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
 TARGET AT 29.99: 0.040
 LOT #: 07611040A4
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:56
INTERNAL STANDARD	VERIFIED	11:56
EXTERNAL STANDARD	0.040	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.040	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.040	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.040	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.040	12:01
BLANK TEST	0.000	12:02

Average = 0.0401
 Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

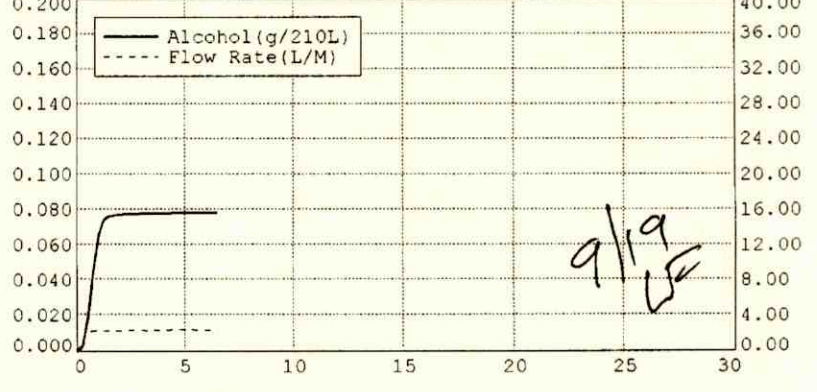
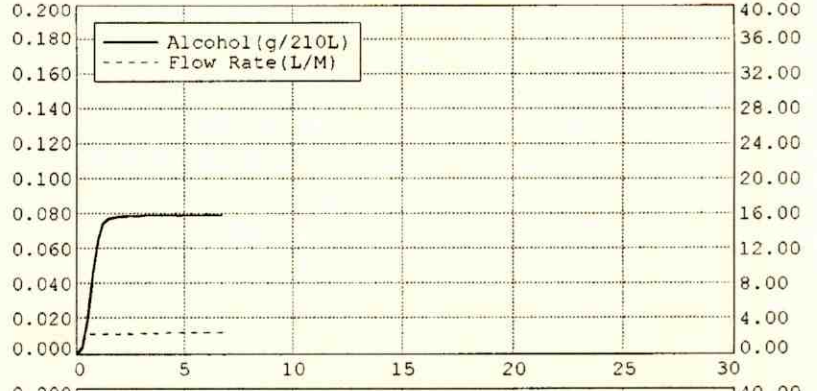
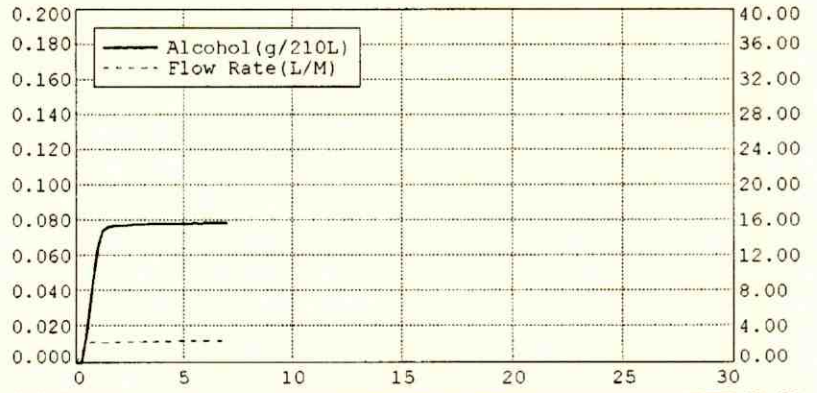
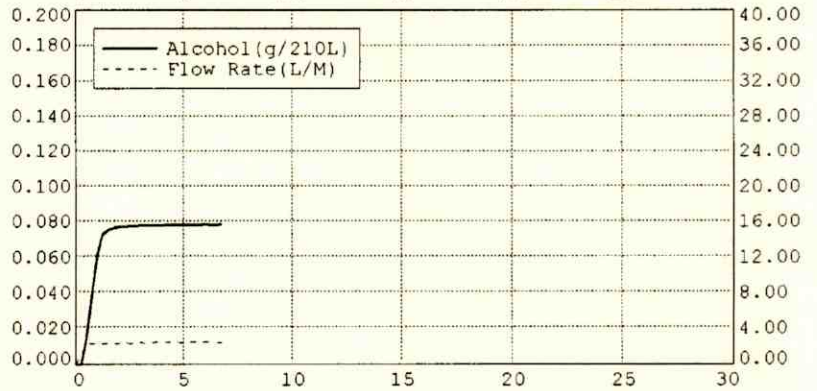
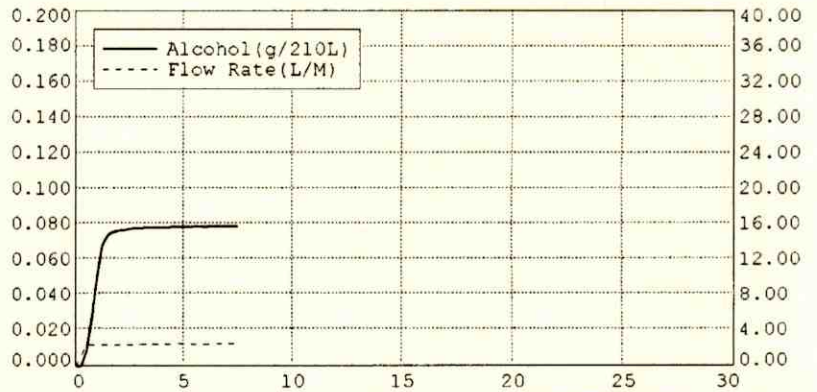
Date: 07/17/2012
 Time: 12:04:30

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:05
INTERNAL STANDARD	VERIFIED	12:05
EXTERNAL STANDARD	0.078	12:06
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.078	12:07
BLANK TEST	0.000	12:08
EXTERNAL STANDARD	0.079	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.080	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.078	12:10
BLANK TEST	0.000	12:11

Average = 0.0791
 Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

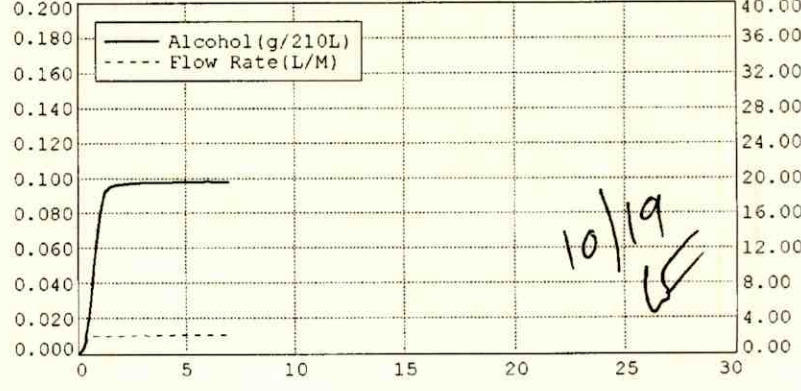
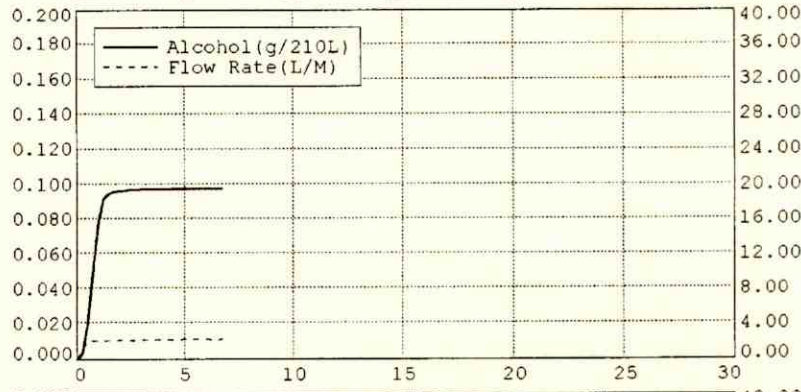
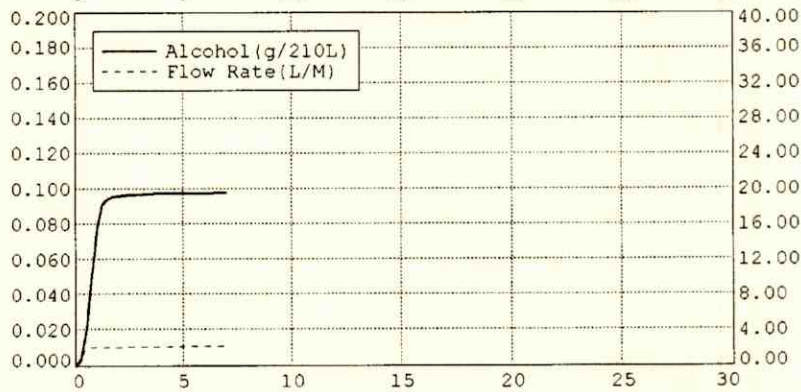
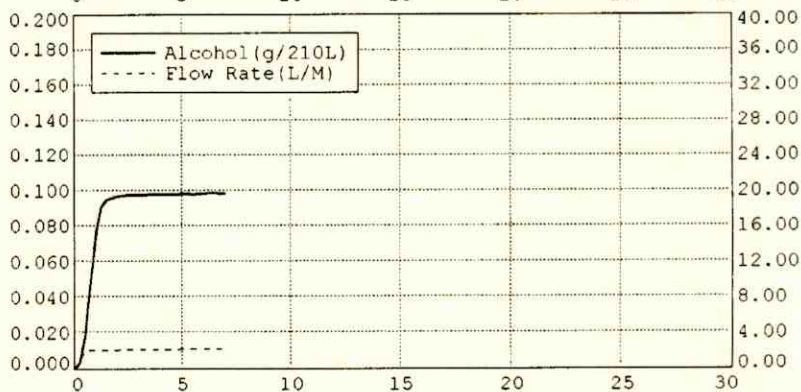
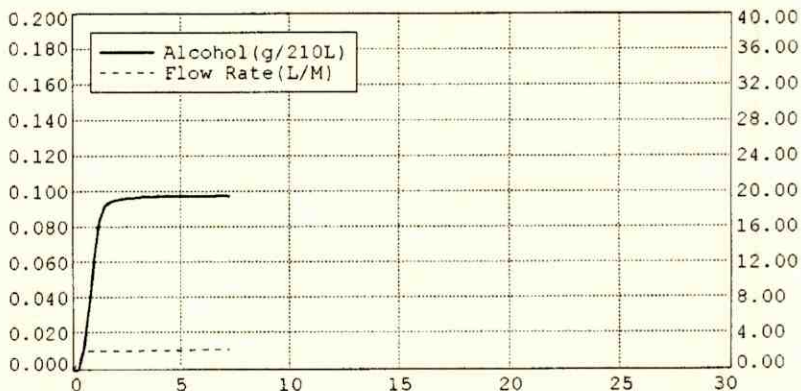
Date: 07/17/2012
 Time: 12:15:01

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:16
INTERNAL STANDARD	VERIFIED	12:16
EXTERNAL STANDARD	0.098	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.098	12:17
BLANK TEST	0.000	12:18
EXTERNAL STANDARD	0.098	12:18
BLANK TEST	0.000	12:19
EXTERNAL STANDARD	0.098	12:20
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.098	12:21
BLANK TEST	0.000	12:22

Average = 0.0983
 Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

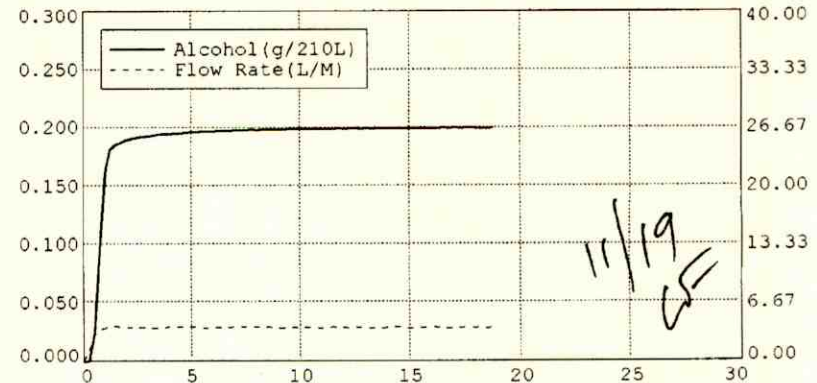
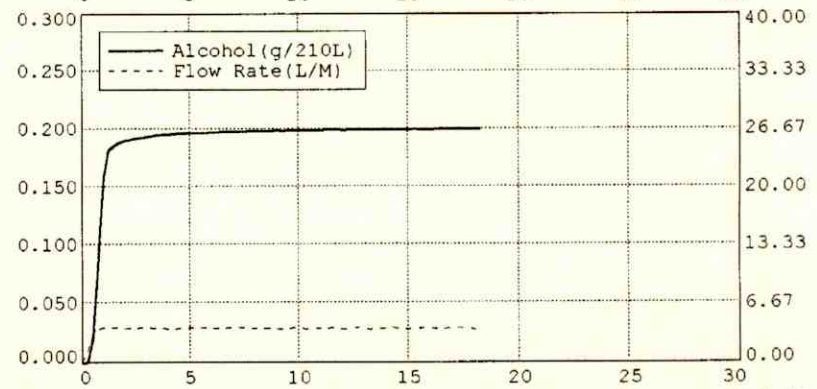
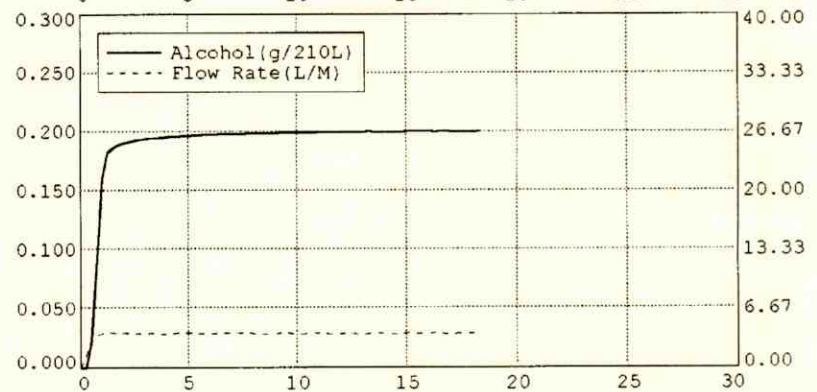
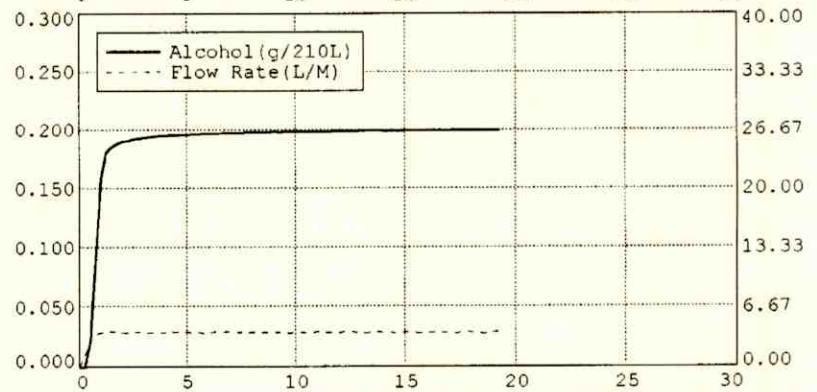
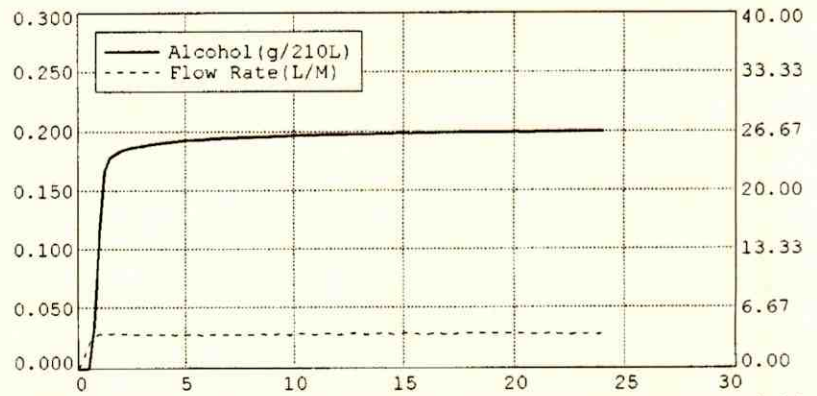
Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 07/17/2012
 Time: 12:23:26

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

BLANK TEST	0.000	12:24
INTERNAL STANDARD	VERIFIED	12:25
EXTERNAL STANDARD	0.199	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.199	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.200	12:28
BLANK TEST	0.000	12:29
EXTERNAL STANDARD	0.199	12:29
BLANK TEST	0.000	12:30
EXTERNAL STANDARD	0.199	12:30
BLANK TEST	0.000	12:31

Average = 0.1997
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

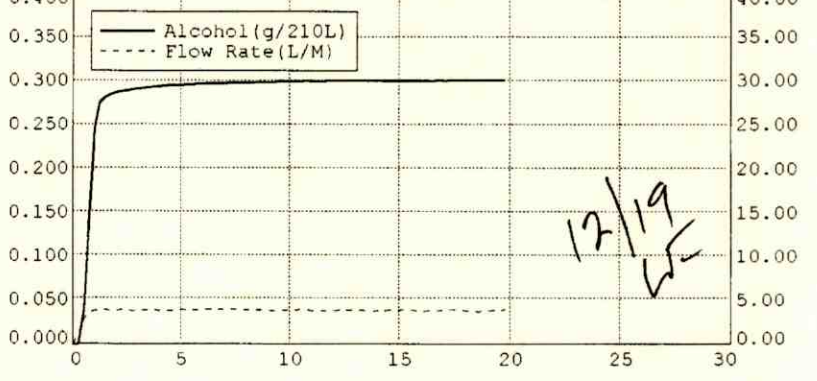
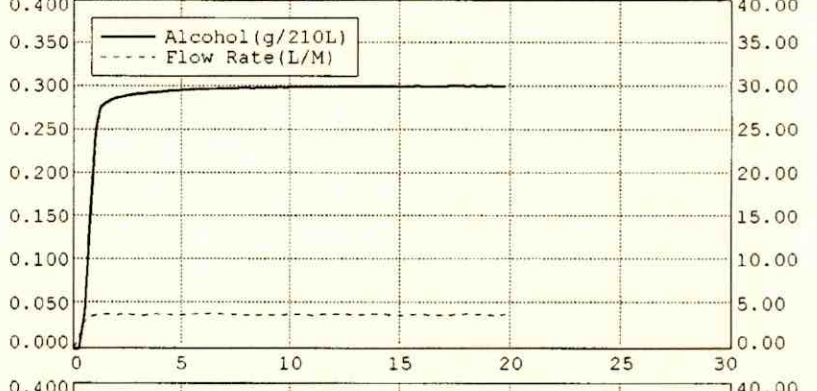
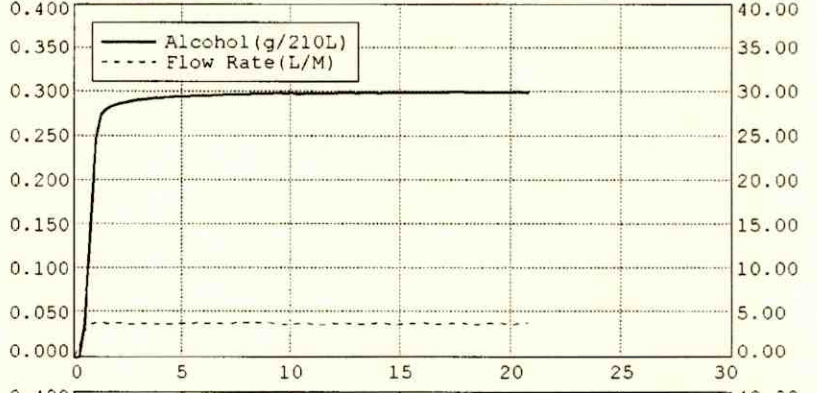
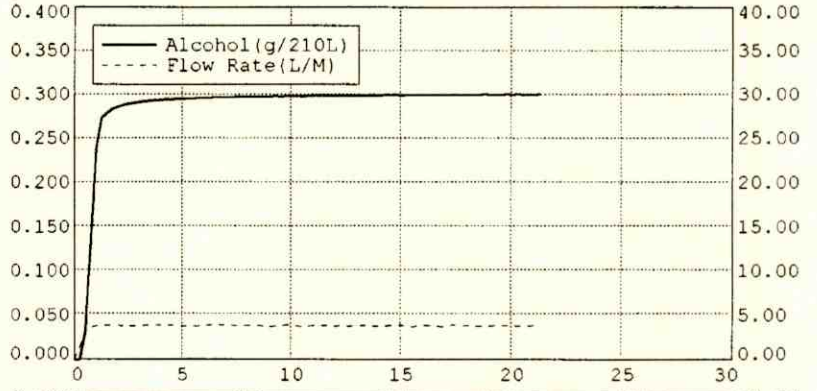
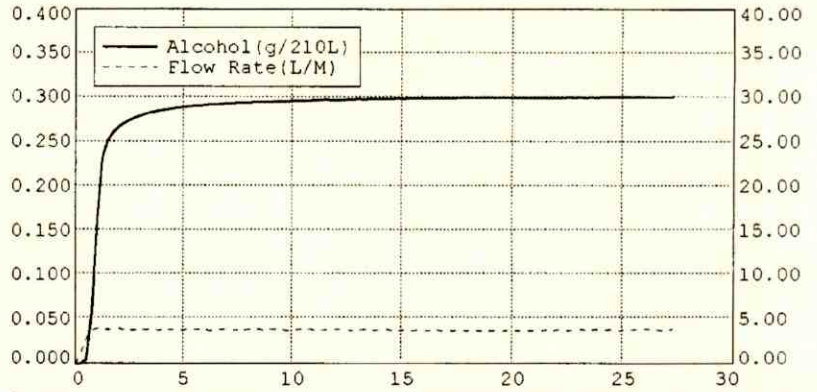
Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 07/17/2012
 Time: 12:35:28

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

BLANK TEST	0.000	12:36
INTERNAL STANDARD	VERIFIED	12:36
EXTERNAL STANDARD	0.299	12:37
BLANK TEST	0.000	12:38
EXTERNAL STANDARD	0.299	12:38
BLANK TEST	0.000	12:39
EXTERNAL STANDARD	0.299	12:40
BLANK TEST	0.000	12:40
EXTERNAL STANDARD	0.299	12:41
BLANK TEST	0.000	12:42
EXTERNAL STANDARD	0.299	12:42
BLANK TEST	0.000	12:43

Average = 0.2993
 Std Dev = 0.0003



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 07/17/2012
Time: 14:56:19

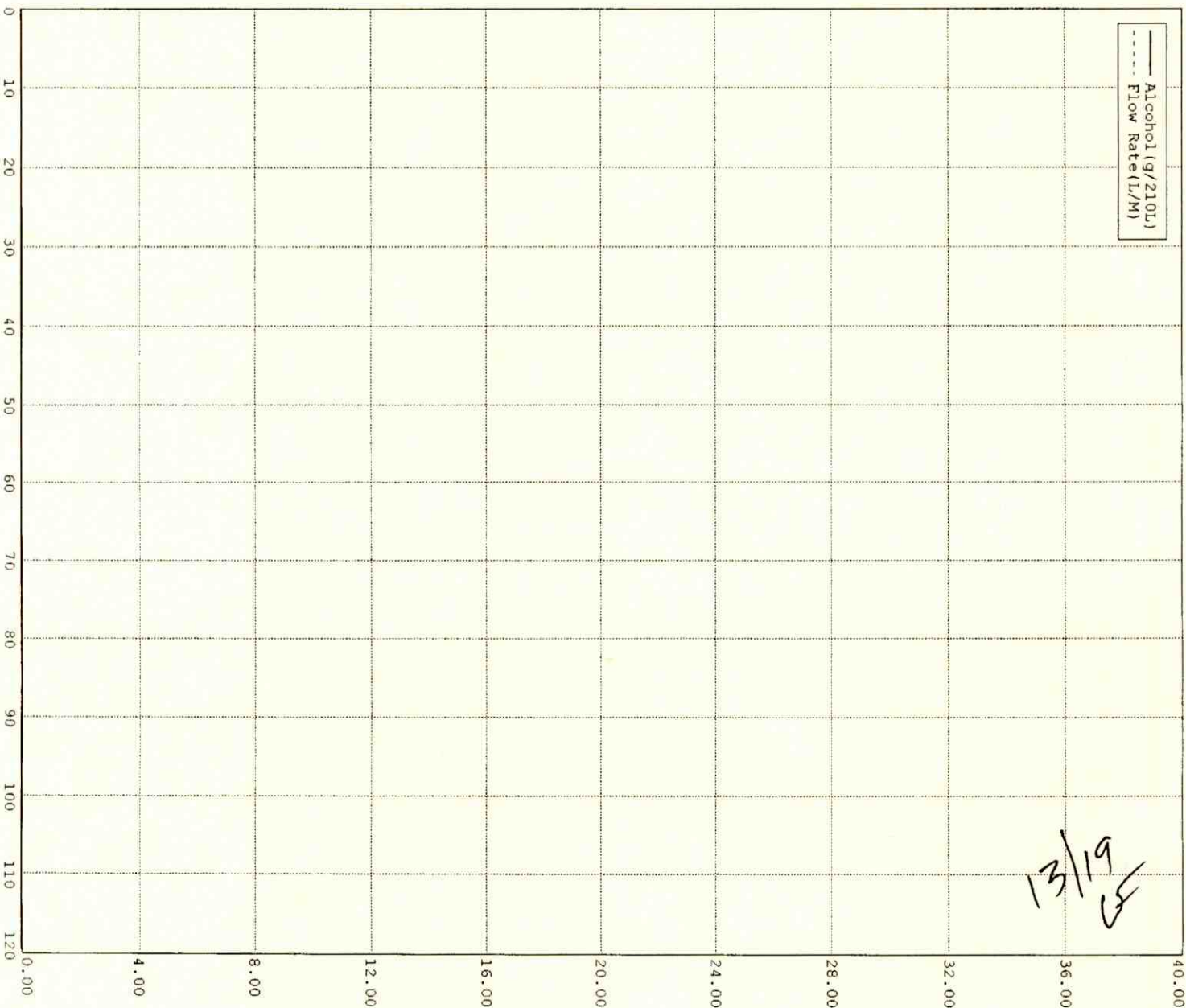
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
INCOMPLETE XXXX
OPERATOR'S #: XXXX

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

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

DIAGNOSTIC CHECK	PASSED	14:57
BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:57
EXTERNAL STANDARD	0.079	14:58
BLANK TEST	0.000	14:59
SUBJECT SAMPLE	INCOMPLETE	15:01



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 07/17/2012
Time: 15:07:12

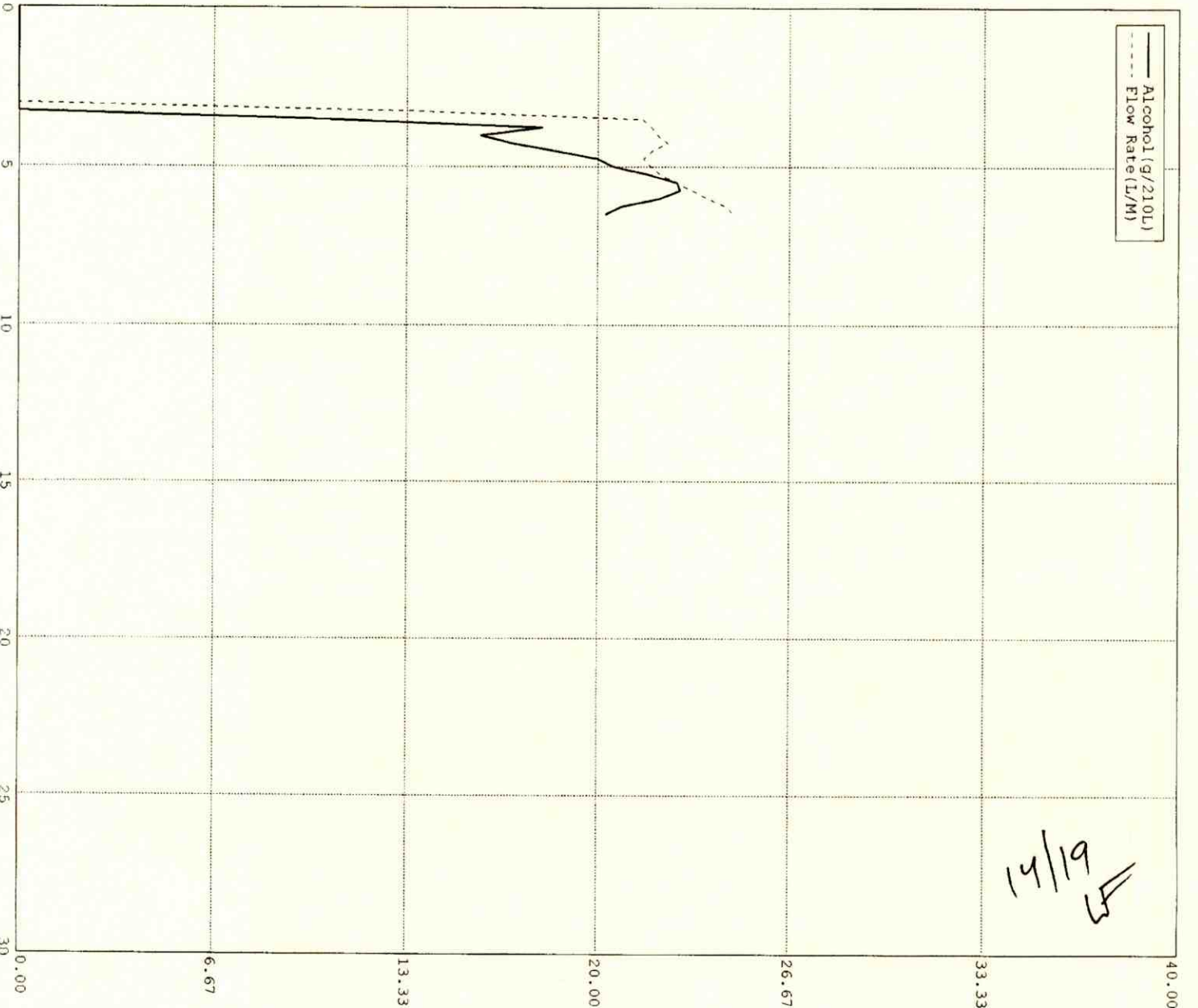
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

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 29.91: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	15:10
BLANK TEST	0.000	15:10
INTERNAL STANDARD	VERIFIED	15:11
EXTERNAL STANDARD	0.079	15:11
BLANK TEST	0.000	15:12
SUBJECT SAMPLE	INVALID	15:12



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 07/18/2012
 Time: 14:52:44

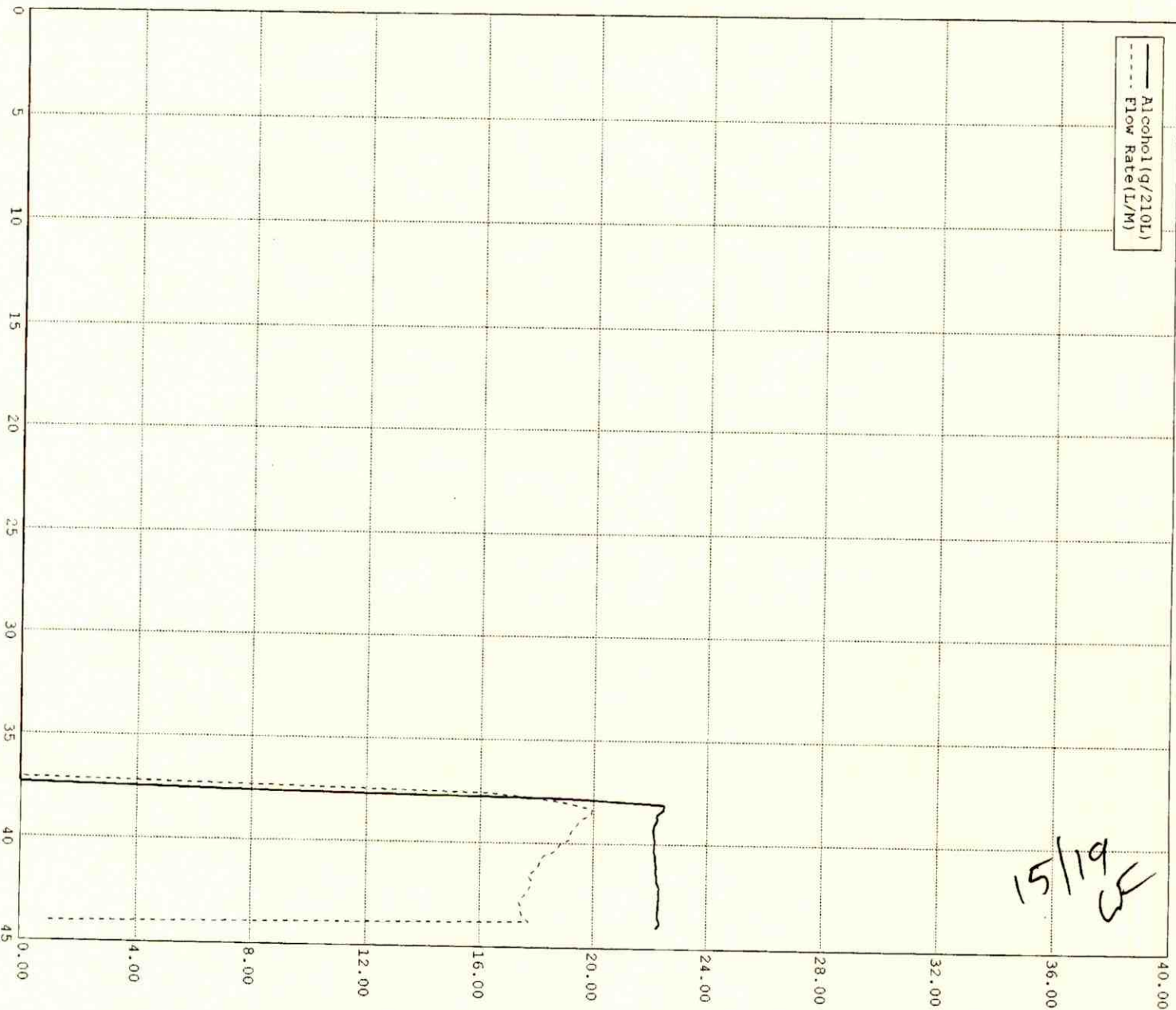
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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	14:55
BLANK TEST	0.000	14:55
INTERNAL STANDARD	VERIFIED	14:55
Xq = 0.089 (0.29%)		
EXTERNAL STANDARD	0.079	14:56
X[1] = 0.0793 (-0.0008)	(0.0004)	
BLANK TEST	0.000	14:56
SUBJECT SAMPLE	INTERFERENCE	14:57
X[1] = 0.1115 (-0.0137)	(0.0006)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100352

Date: 07/18/2012
 Time: 15:00:54

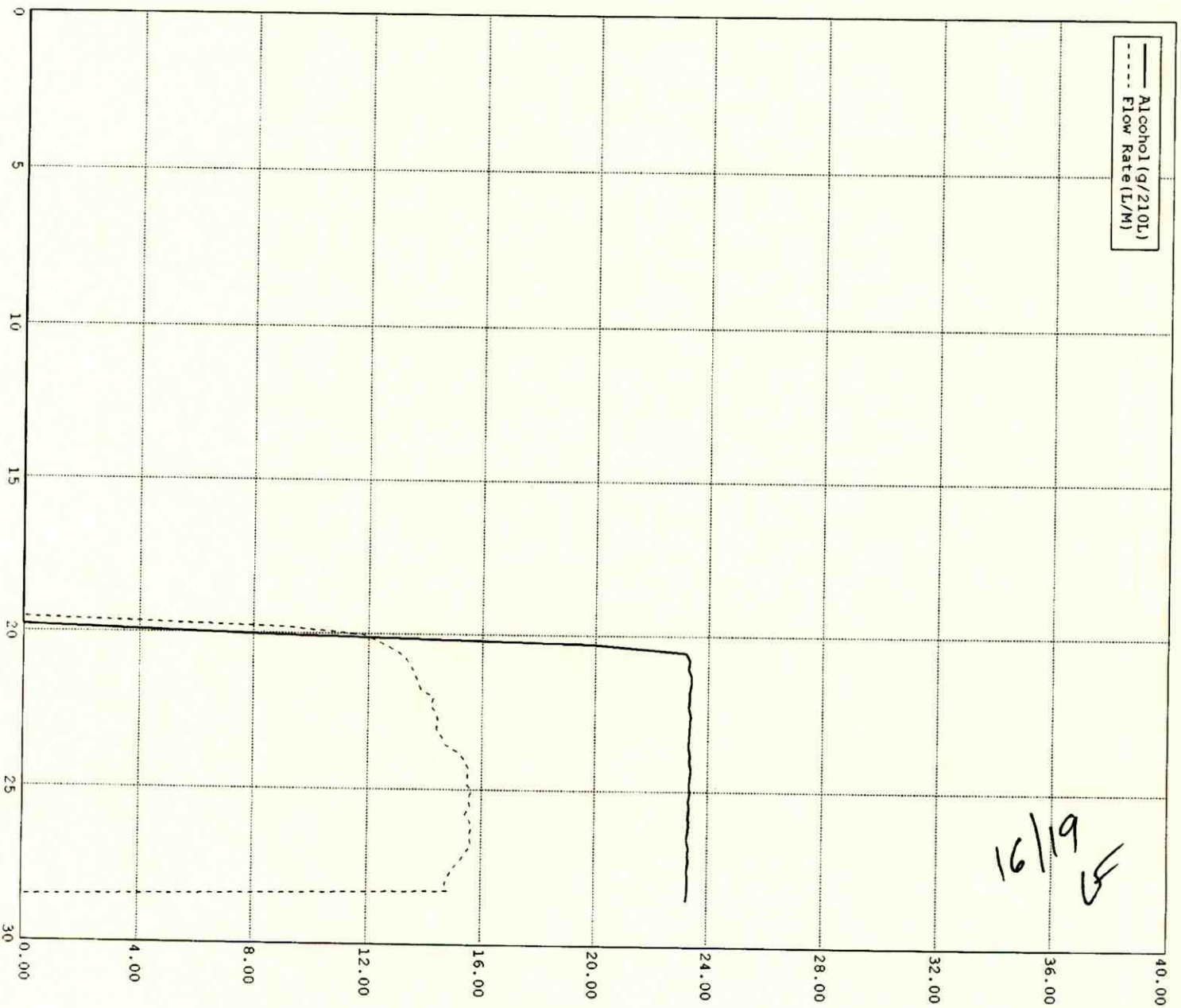
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

DIAGNOSTIC CHECK	PASSED	15:06
BLANK TEST	0.000	15:06
INTERNAL STANDARD	VERIFIED	15:07
Xq = 0.089 (0.59%)		
EXTERNAL STANDARD	0.078	15:07
X[1] = 0.0788 (-0.0018)	(0.0013)	
BLANK TEST	0.000	15:08
SUBJECT SAMPLE	INTERFERENCE	15:08
X[1] = 0.1166 (-0.0223)	(0.0010)	



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100352

Date: 07/18/2012
 Time: 15:11:12

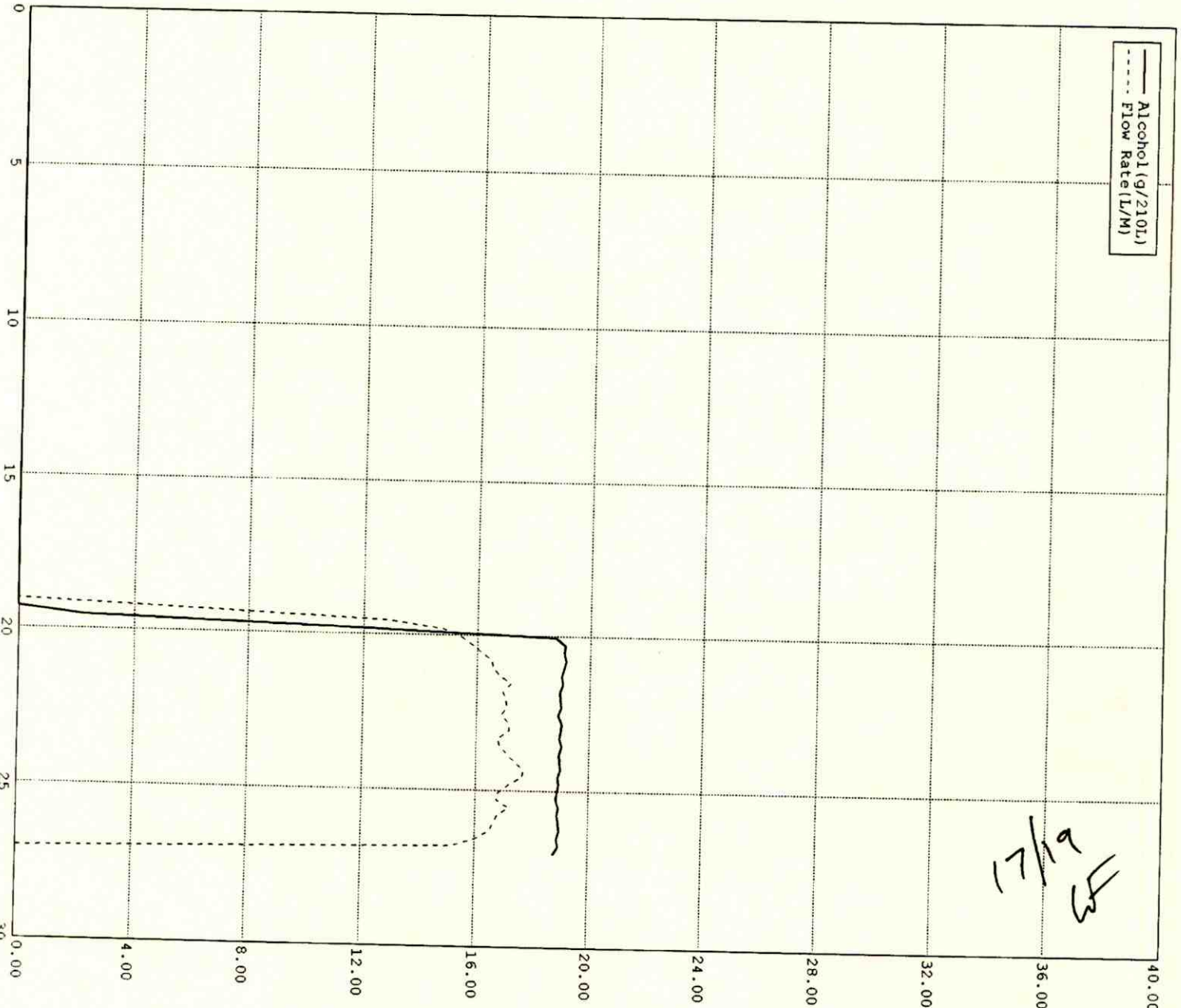
SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

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

DIAGNOSTIC CHECK	PASSED	15:18
INTERNAL STANDARD	0.000	15:18
INTERNAL STANDARD	VERIFIED	15:18
Xq = 0.089 (0.39%)		
EXTERNAL STANDARD	0.079	15:18
X[1] = 0.0793 (-0.0006) (0.0010)		
BLANK TEST	0.000	15:19
SUBJECT SAMPLE (Vol=2.09L)	0.094	15:20
X[1] = 0.0948 (0.0004) (0.0009)		
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.078	15:21
X[1] = 0.0787 (-0.0009) (0.0004)		
BLANK TEST	0.000	15:22



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 07/17/2012
Time: 15:18:15

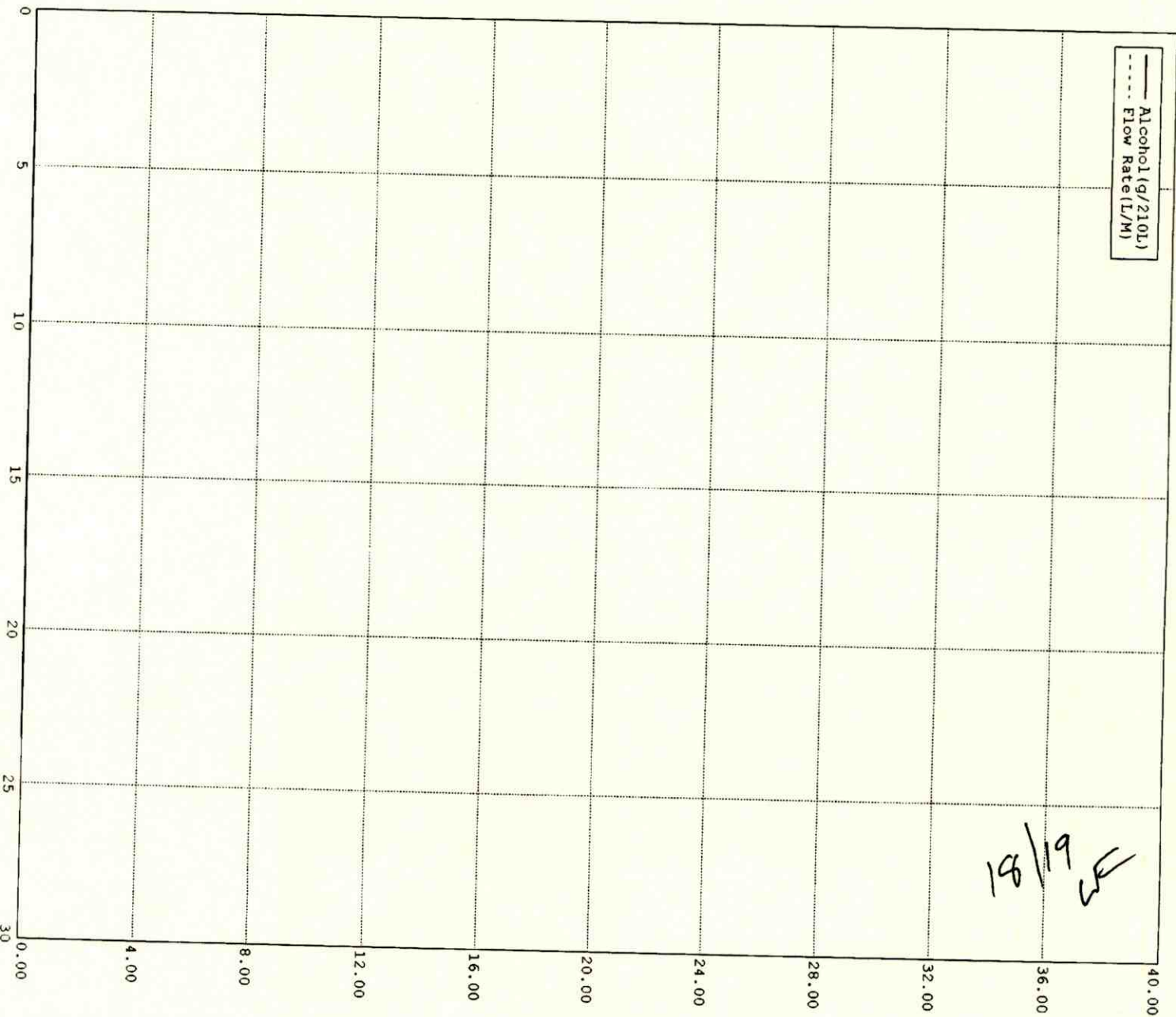
SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
RFI XXXX
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.90: 0.079
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK
BLANK TEST PASSED 15:19
INTERNAL STANDARD 0.000 15:19
EXTERNAL STANDARD VERIFIED 15:19
BLANK TEST 0.078 15:20
0.000 15:21
RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100352

Date: 07/18/2012
Time: 16:02:24

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	TIME
INTERNAL STANDARD	0.000	16:03
EXTERNAL STANDARD	0.079	16:03
INTERNAL STANDARD	0.000	16:04
EXTERNAL STANDARD	0.000	16:05
INTERNAL STANDARD	0.000	16:06
EXTERNAL STANDARD	0.079	16:06
INTERNAL STANDARD	0.000	16:07

