

	State of Alaska Scientific Crime Detection Laboratory		
	DataMaster Certification Form - DMCEF2011R1		
	Issuing Authority - Nita Bolz, Scientific Director		
Approval date: 03/10/11	Effective date: 03/10/11	Archive date: Active	

DataMaster DMT Certification Form

Instrument # 100390Analyst Chuck FosterDate 4/7/11

1. Diagnostic Test (attached)
2. Voltage Checks
 - a. Adjust voltages, if needed
 - i. Lamp
 - ii. Bias
 - iii. Cooler
 - iv. Chopper Frequency
 - b. Set RFI
 - c. Adjust barometer reading, if needed
 - d. Adjust volume setting, if needed
 - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1600 mL
5. Dry Gas Linearity Test (attached)
 - a. Levels Used ILMO
 - i. 0.020g/210L Mnf ~~ISAT~~ ^{REF} Lot 15210070 A1 Exp 7/1/12
 - ii. 0.040g/210L Mnf ILMO Lot 15210040 A2 Exp 7/1/12
 - iii. 0.080g/210L Mnf ~~SMI~~ ^{ILMO} ~~CRF~~ Lot 02511080 A1 Exp 2/1/13
 - iv. 0.100g/210L Mnf ILMO Lot 05611100 A2 Exp 3/1/13
 - v. 0.200g/210L Mnf ILMO Lot 02811200 A3 Exp 2/1/13
 - vi. 0.300g/210L Mnf ILMO Lot 07411300 A1 Exp 3/1/13
6. Functional Tests (attached)
 - a. Incomplete
 - b. Invalid
 - c. Interference
 - i. Acetone - Mnf Guth Lot 09340 Level 0.080 Exp 8/2/11
 1. Simulator Calibration Date 10/18/10 SN DR6267
 - ii. Isopropanol - Mnf Guth Lot 09340 Level 0.080 Exp 8/2/11
 1. Simulator Calibration Date 8/4/10 SN SD1202
 - d. RFI
7. Calibrate Stylus
8. Verify card reader is functional
9. Upload
10. Reset Options
11. Non-Drinking Subject Test (attached)

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dat: 100390

Date: 04/07/2011
Time: 11:44:57

VERSIONS

DMF: 1.01
PIC: 3.02
Modem: 2.0
Questions: 2.2

TEMPERATURES

Sample Chamber = 46.7°C PASSED
Breath Tube = 46.1°C PASSED

PUMP INFO

Flow Rate = 3.857 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 of 18
WF

Technician Screen

DATAMASTER dnt: 100390

Date: 04/07/2011
Time: 11:59 AM

Temperatures (°C)
Sample Cell: 48.9°C
Breath Tube: 47.6°C

Current Barometer 29.1 in
Volume (Ltr) 1.51

Settings
Lamp: 1.59 V
Bias: 80 V
Cooler: 1.62 V
Chopper: 527 Hz

Voltages (V)
Flow: 1.06 V
Detector: 0.649 V

3 of 18
WF

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100390

Date: 03/10/2011
Time: 07:44:47

Ca	=	0.1000			
CAL	=	0.993918	0.800	<=	CAL < 1.200
b1	=	0.0005	0.0000	<=	b1 < 0.0040
b2	=	0.0038	0.0010	<=	b2 < 0.0100
b3	=	0.0003	0.0000	<=	b3 < 0.0040
Xq	=	0.0958	0.0500	<=	Xq < 0.2000
a21	=	1.168537	1.050	<=	a21 < 1.300
a31	=	0.503509	0.300	<=	a31 < 0.800

4 of 18
WF

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dnt: 100390

Date: 04/07/2011
 Time: 14:53:47

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

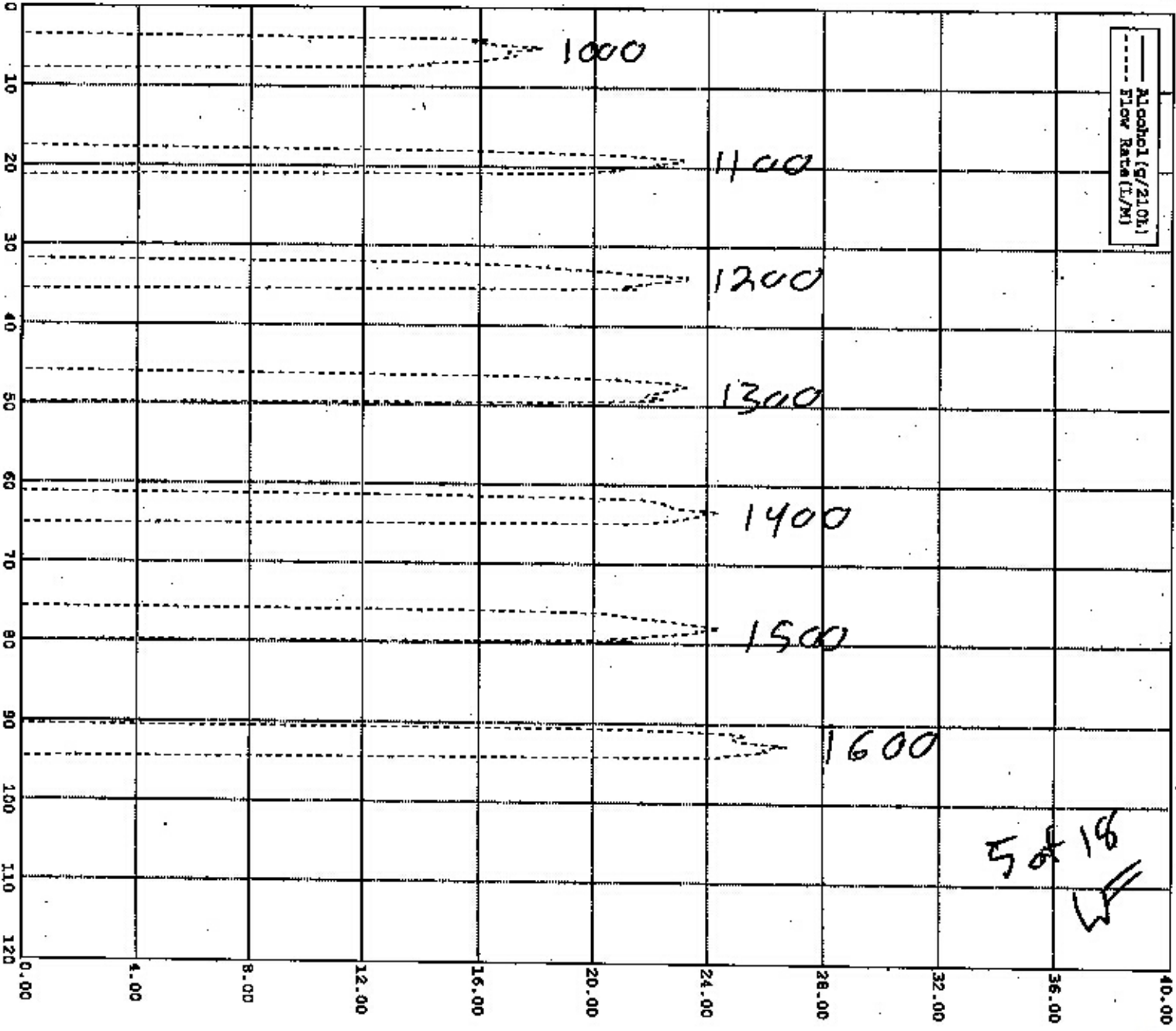
OPERATOR NAME:
 MINIMUM VOYAGE
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.15: 0.077
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	14:54
BLANK TEST	0.000	14:54
INTERNAL STANDARD	VERIFIED	14:55
EXTERNAL STANDARD	0.079	14:55
BLANK TEST	0.000	14:56
SUBJECT SAMPLE	0.000	14:57
BLANK TEST	0.000	14:58
EXTERNAL STANDARD	0.079	14:58
BLANK TEST	0.000	14:59

CRF



LINERARITY CHECK

Alaska Department of Public Safety
 DATAWATER dno: 100390

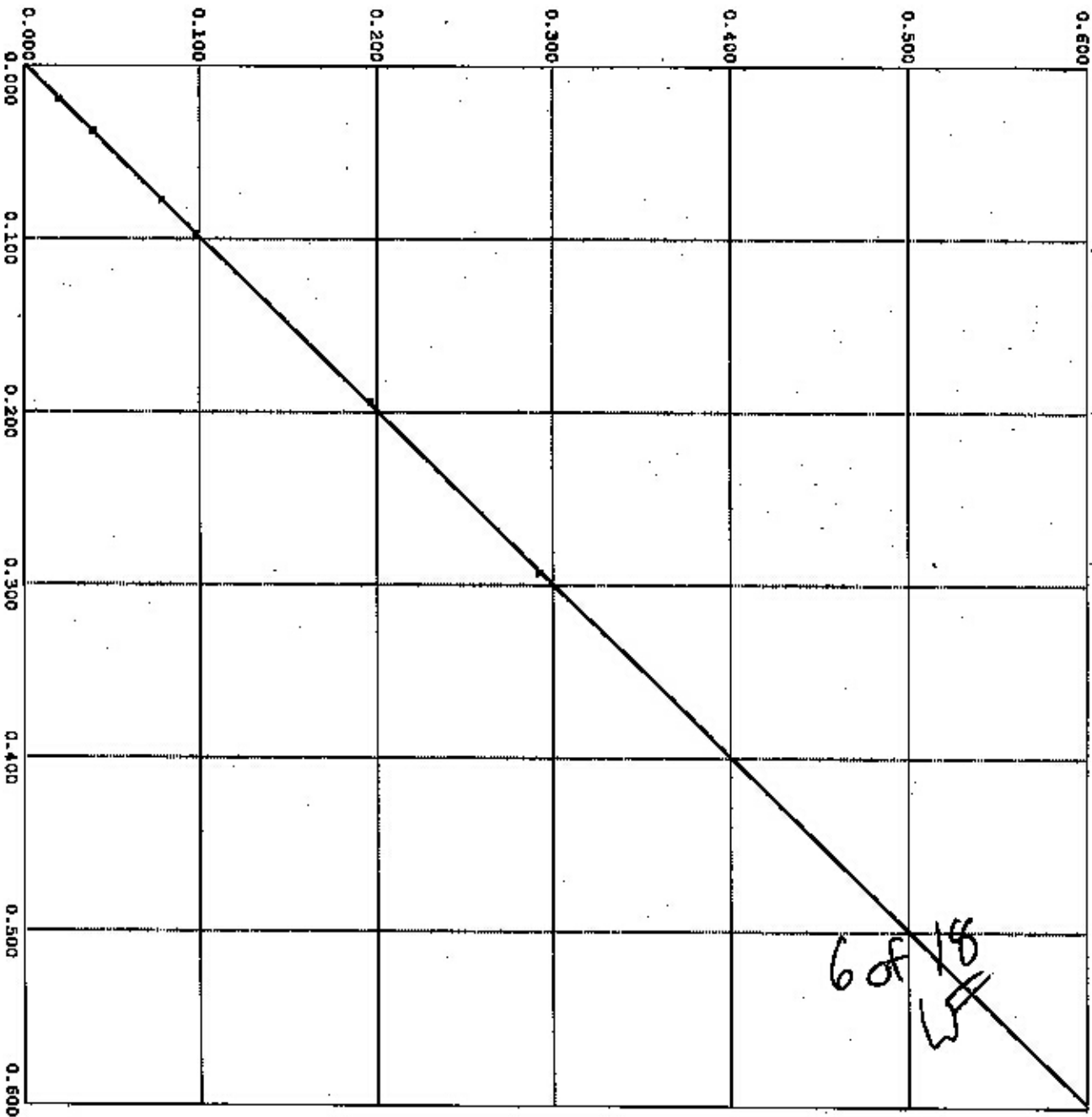
Date: 04/07/2011
 Time: 15:15:01

SUPERVISOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7734

TARGET	AVERAGE	STD. DEV.
0.019	0.0202	0.0004
0.038	0.0398	0.0004
0.077	0.0790	0.0007
0.097	0.0988	0.0004
0.194	0.1972	0.0004
0.292	0.2932	0.0013

SLOPE = 1.000968
 R^2 = 0.999976

CRT



LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
 DATAMASTER dmt: 100390

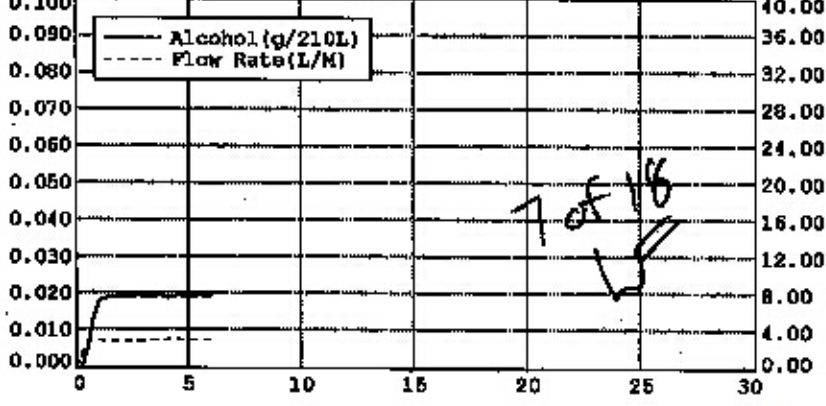
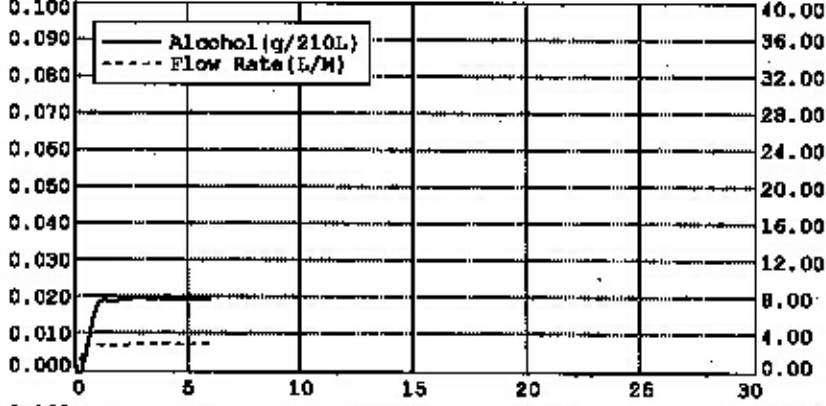
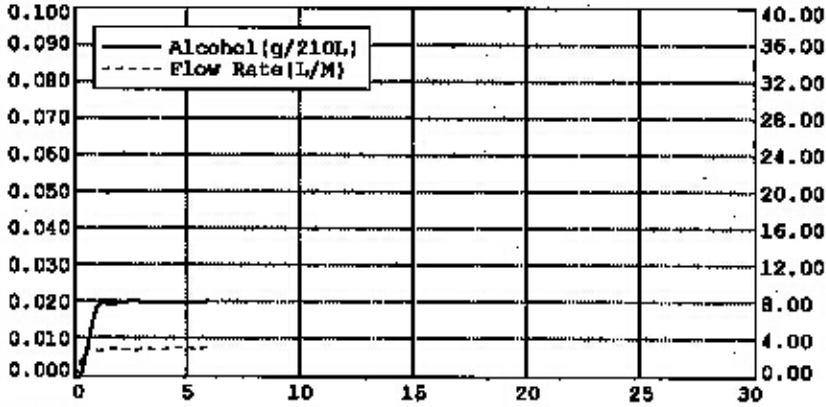
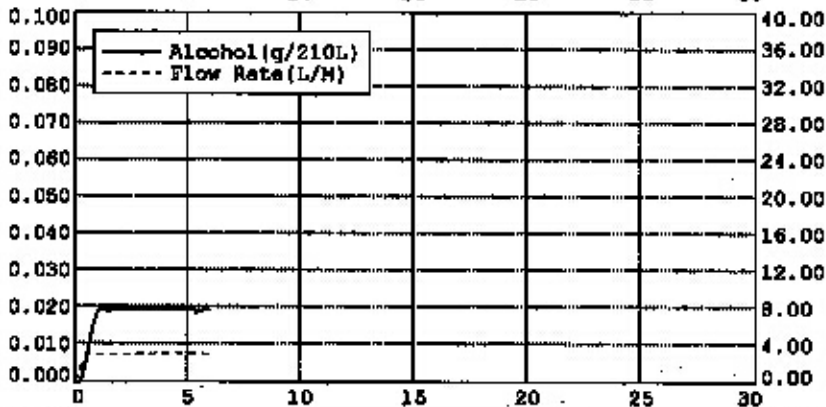
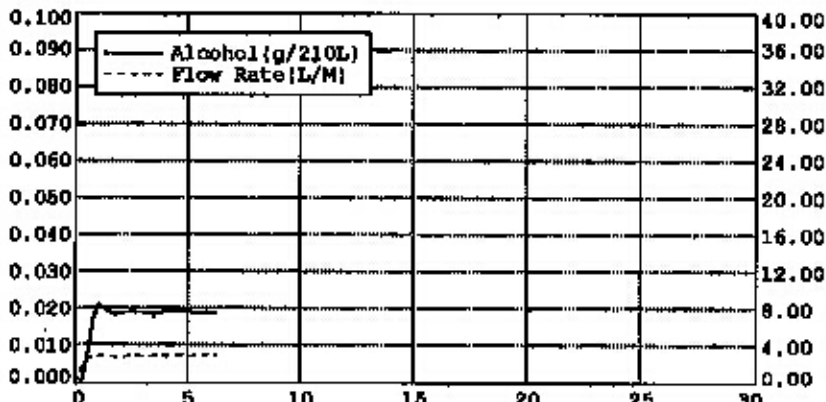
Date: 04/07/2011
 Time: 15:15:03

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
 TARGET AT 29.15: 0.019
 LOT #: 15210020A1
 EXPIRATION: 07/01/2012

BLANK TEST	0.000	15:17
INTERNAL STANDARD	VERIFIED	15:17
EXTERNAL STANDARD	0.020	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.020	15:18
BLANK TEST	0.000	15:19
EXTERNAL STANDARD	0.021	15:19
BLANK TEST	0.000	15:20
EXTERNAL STANDARD	0.020	15:20
BLANK TEST	0.000	15:21
EXTERNAL STANDARD	0.020	15:21
BLANK TEST	0.000	15:22

Average = 0.0202
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 2

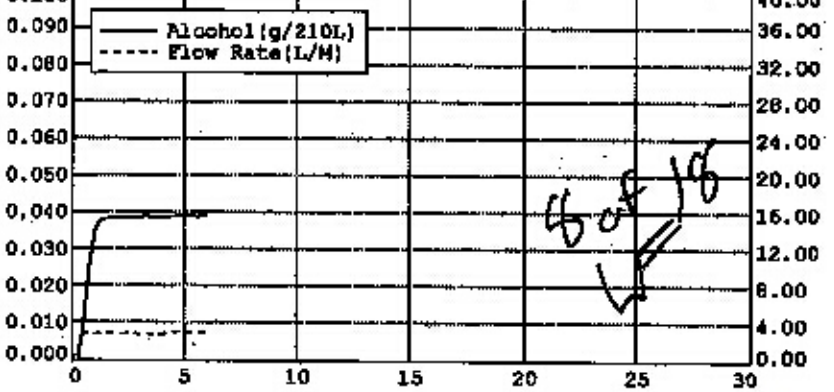
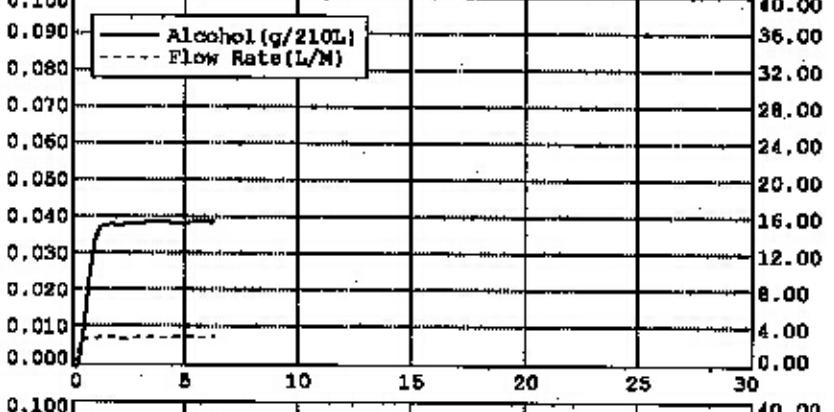
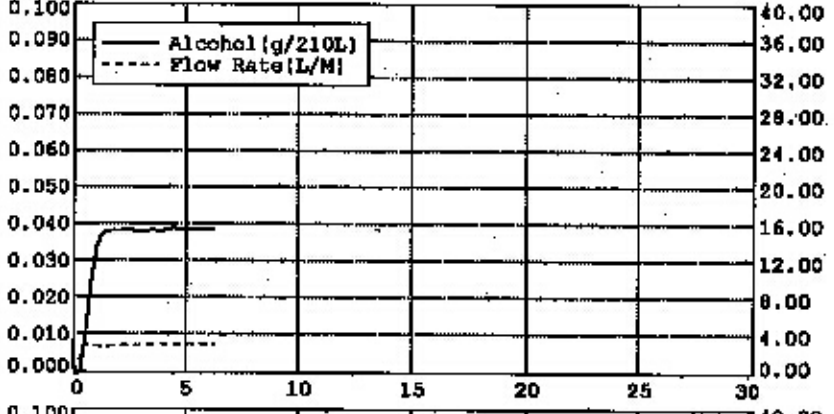
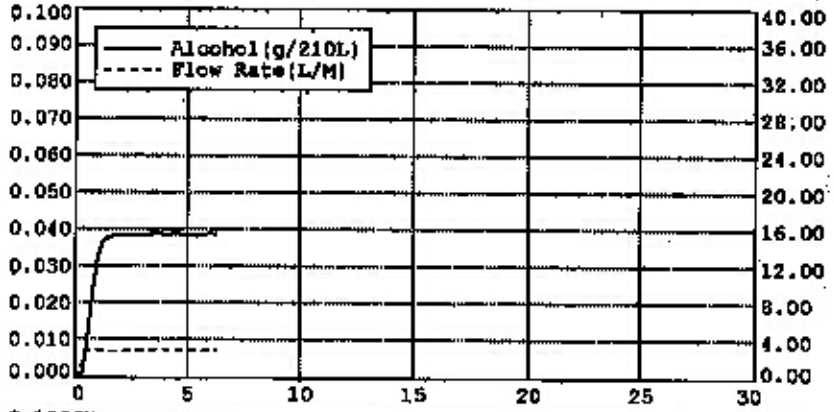
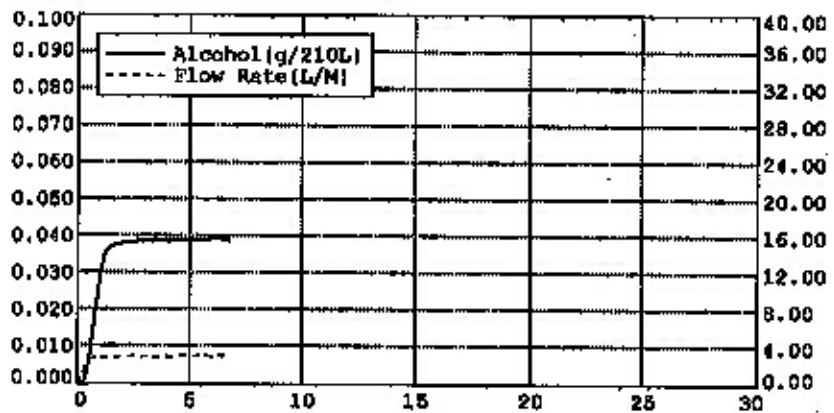
Alaska Department of Public Safety
DATAMASTER dnt: 100390

Date: 04/07/2011
Time: 15:28:04

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.040
TARGET AT 29.15: 0.038
LOT #: 15210040A2
EXPIRATION: 07/01/2012

BLANK TEST	0.000	15:29
INTERNAL STANDARD	VERIFIED	15:29
EXTERNAL STANDARD	0.040	15:29
BLANK TEST	0.000	15:30
EXTERNAL STANDARD	0.040	15:30
BLANK TEST	0.000	15:31
EXTERNAL STANDARD	0.040	15:31
BLANK TEST	0.000	15:32
EXTERNAL STANDARD	0.039	15:32
BLANK TEST	0.000	15:33
EXTERNAL STANDARD	0.040	15:33
BLANK TEST	0.000	15:34

Average = 0.0398
Std Dev = 0.0004



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dat: 100390

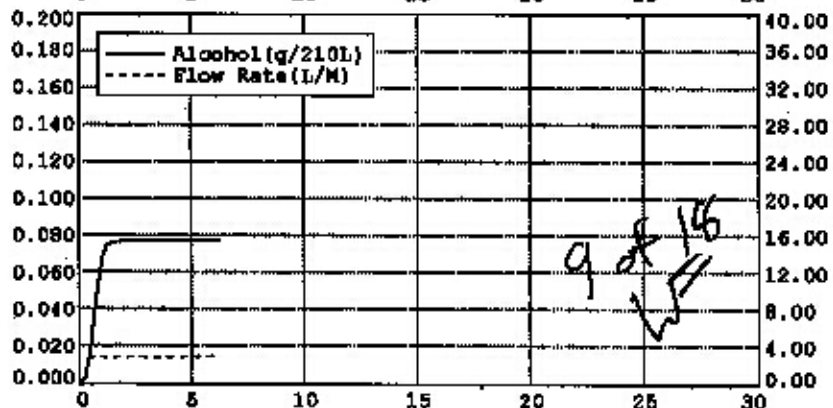
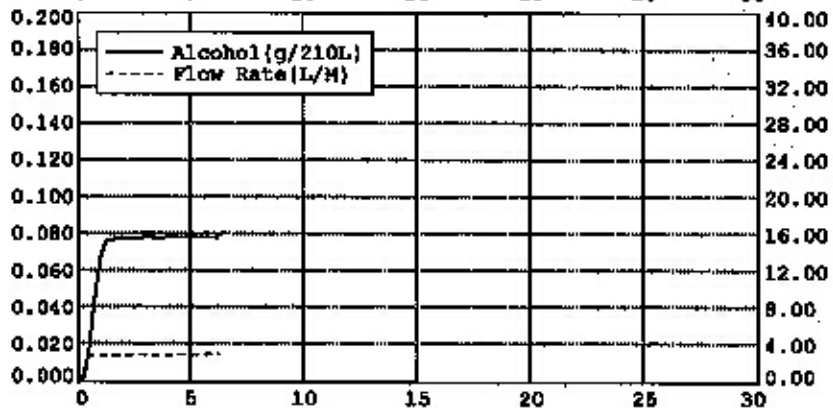
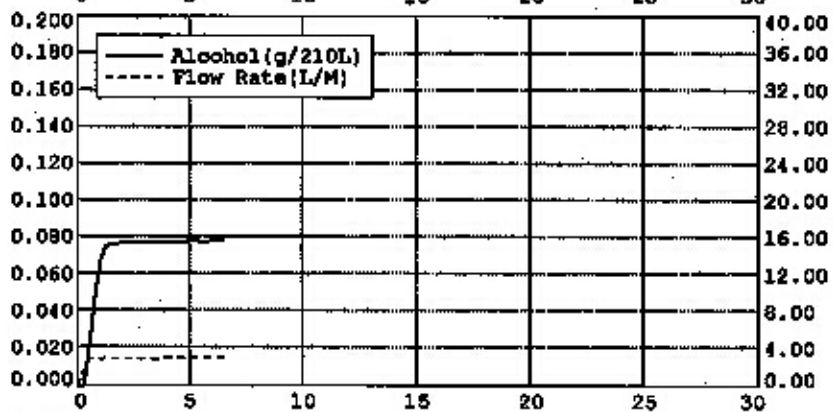
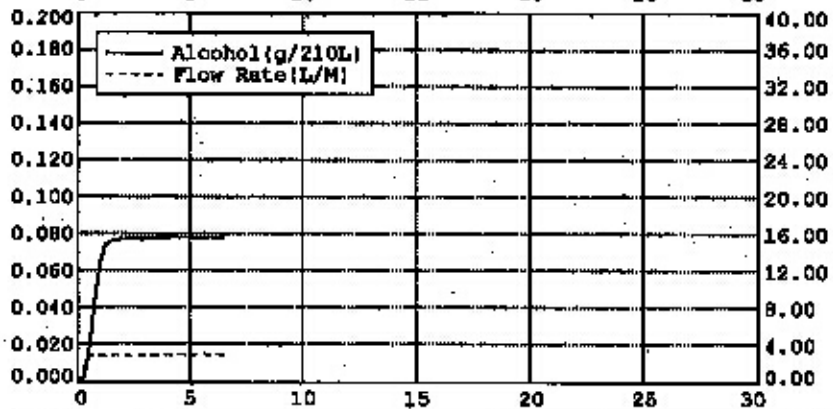
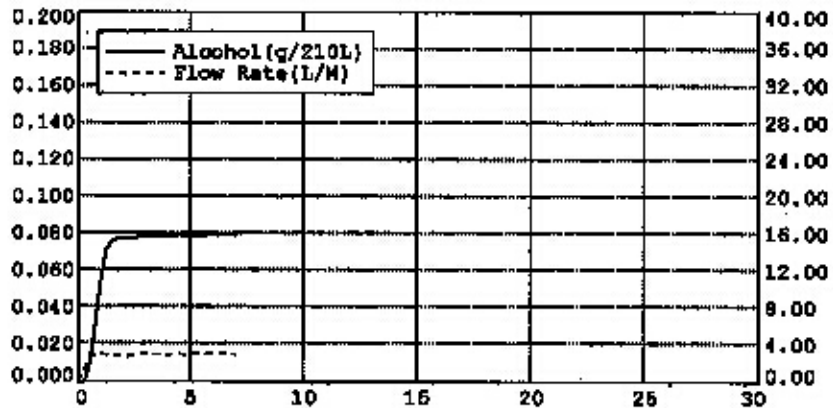
Date: 04/07/2011
Time: 15:38:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.15: 0.077
LOT #: 02511080A1
EXPIRATION: 02/01/2013

BLANK TEST	0.000	15:39
INTERNAL STANDARD	VERIFIED	15:39
EXTERNAL STANDARD	0.080	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.079	15:40
BLANK TEST	0.000	15:41
EXTERNAL STANDARD	0.079	15:42
BLANK TEST	0.000	15:43
EXTERNAL STANDARD	0.079	15:43
BLANK TEST	0.000	15:44
EXTERNAL STANDARD	0.078	15:44
BLANK TEST	0.000	15:45

Average = 0.0790
Std Dev = 0.0007



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
 DATAMASTER dmt: 180390

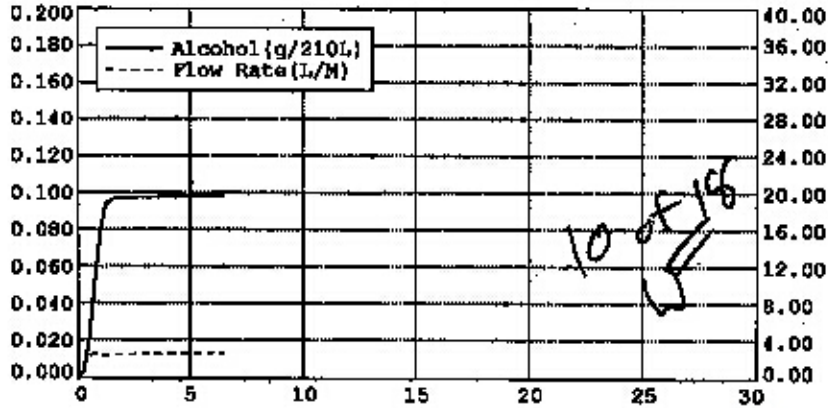
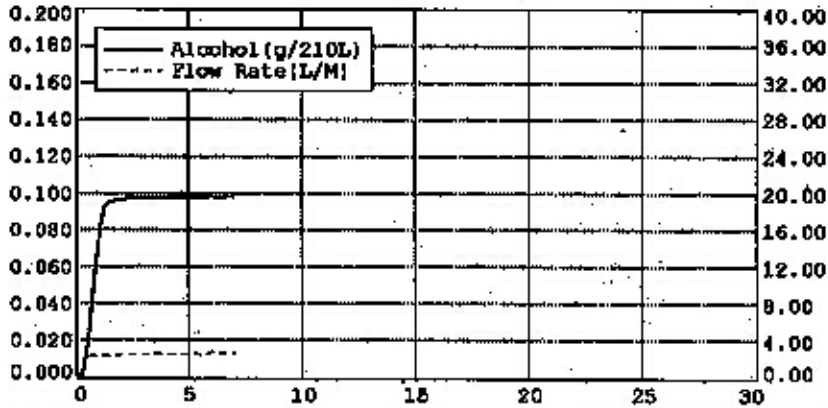
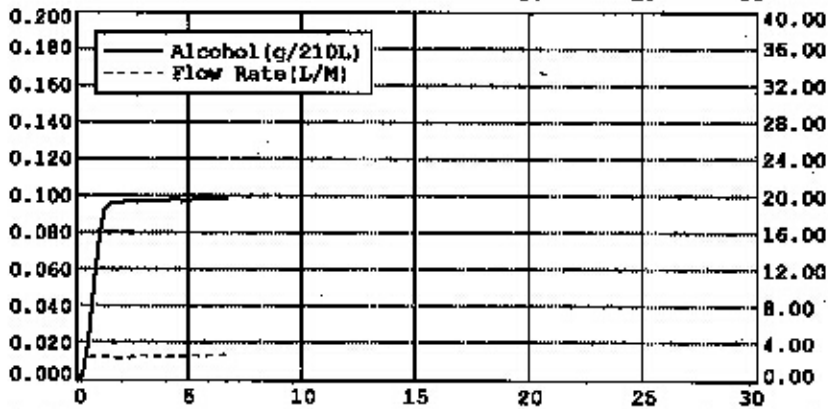
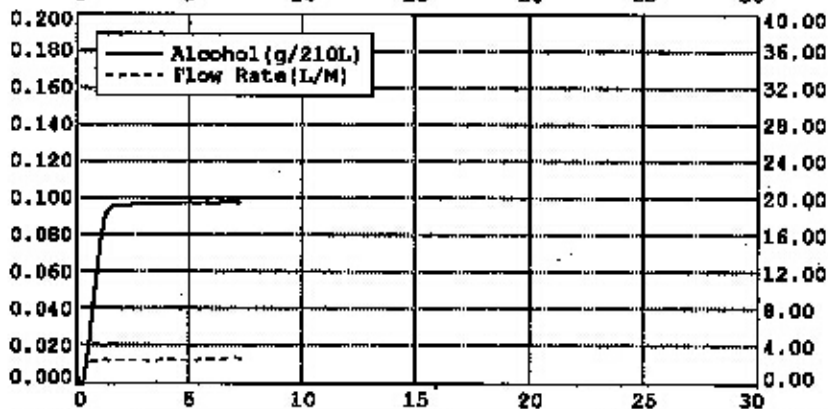
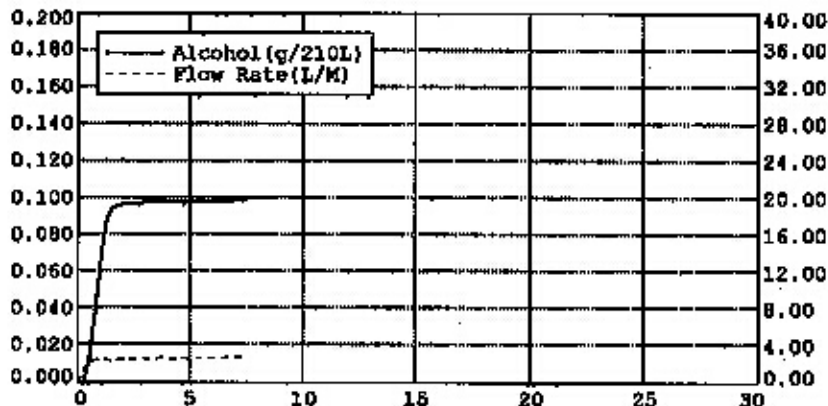
Date: 04/07/2011
 Time: 15:47:04

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
 TARGET AT 29.15: 0.097
 LOT #: 05611100A2
 EXPIRATION: 03/01/2013

BLANK TEST	0.000	15:48
INTERNAL STANDARD	VERIFIED	15:48
EXTERNAL STANDARD	0.099	15:48
BLANK TEST	0.000	15:49
EXTERNAL STANDARD	0.098	15:49
BLANK TEST	0.000	15:50
EXTERNAL STANDARD	0.099	15:51
BLANK TEST	0.000	15:52
EXTERNAL STANDARD	0.099	15:52
BLANK TEST	0.000	15:53
EXTERNAL STANDARD	0.099	15:53
BLANK TEST	0.000	15:54

Average = 0.0988
 Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100390

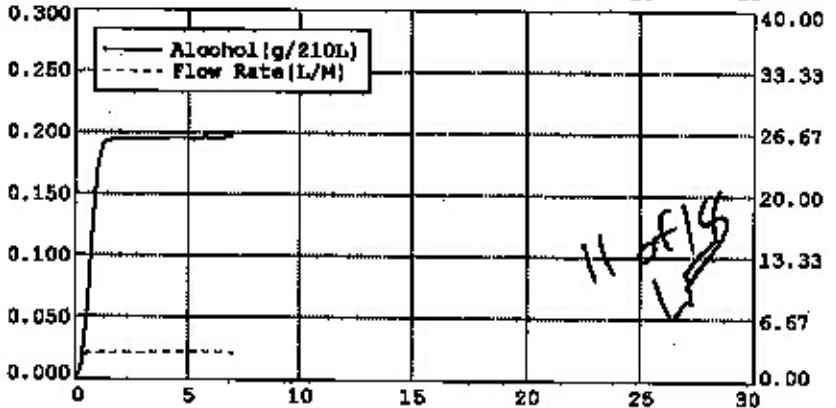
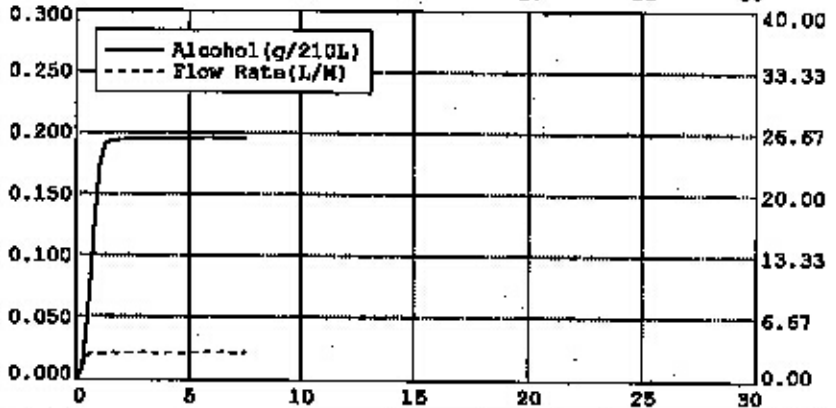
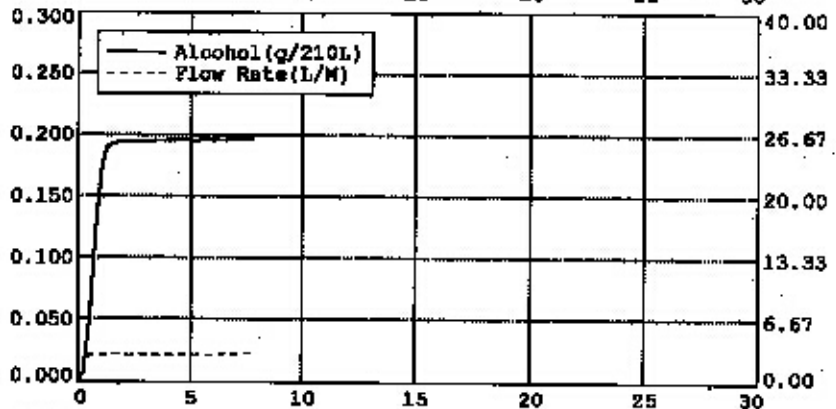
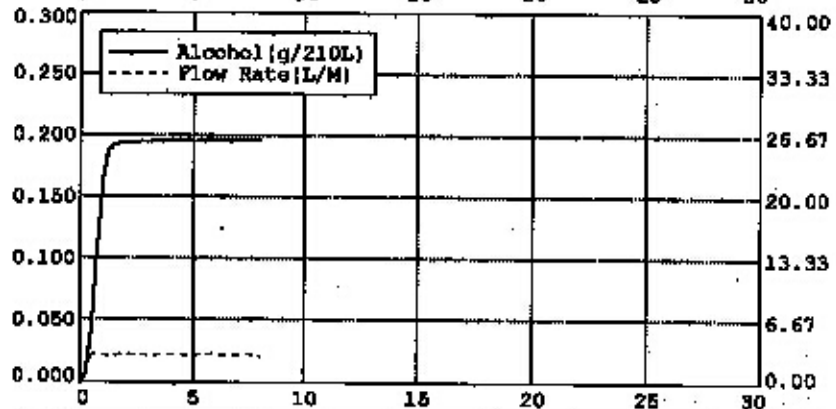
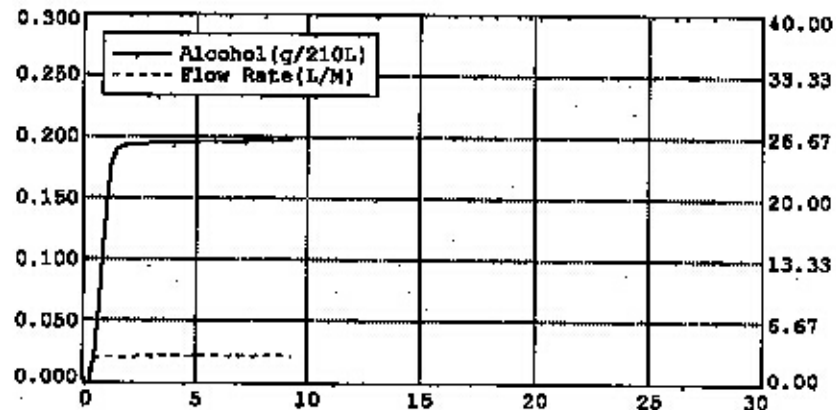
Date: 04/07/2011
Time: 15:57:02

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
TARGET AT 29.16: 0.194
LOT #: 02811280A3
EXPIRATION: 02/01/2013

BLANK TEST	0.000	15:58
INTERNAL STANDARD	VERIFIED	15:58
EXTERNAL STANDARD	0.198	15:58
BLANK TEST	0.000	15:59
EXTERNAL STANDARD	0.197	15:59
BLANK TEST	0.000	16:00
EXTERNAL STANDARD	0.197	16:01
BLANK TEST	0.000	16:01
EXTERNAL STANDARD	0.197	16:02
BLANK TEST	0.000	16:03
EXTERNAL STANDARD	0.197	16:03
BLANK TEST	0.000	16:04

Average = 0.1972
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dnt: 100390

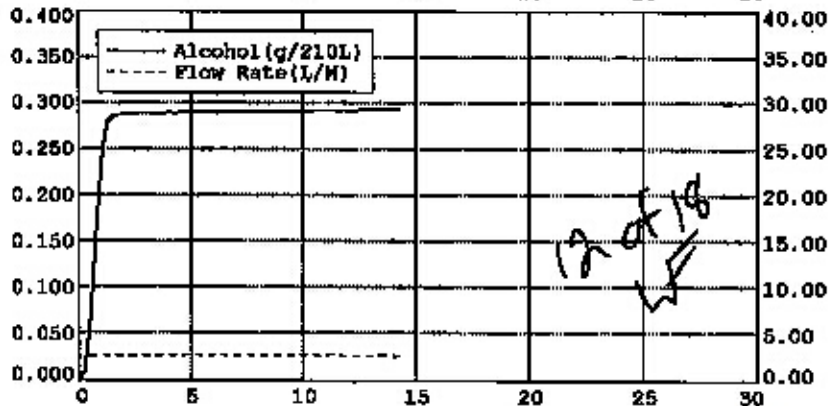
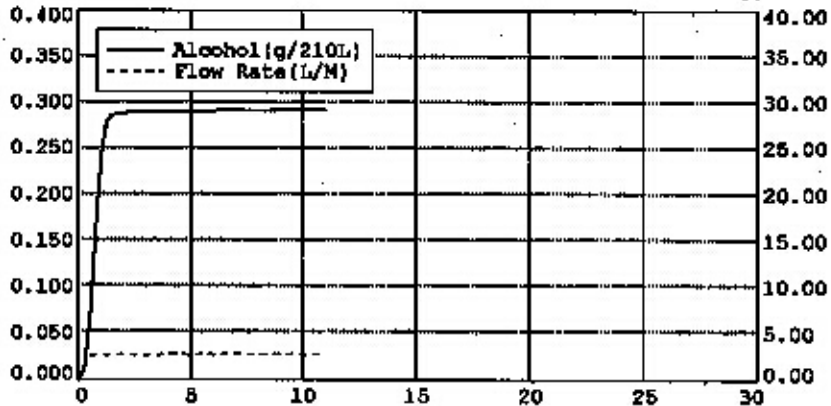
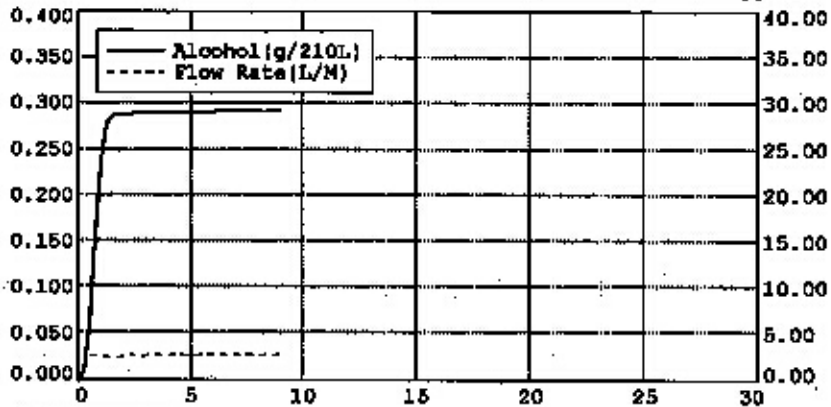
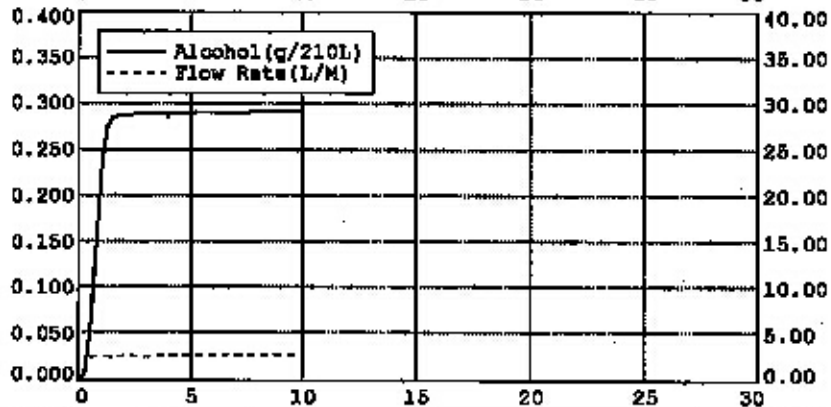
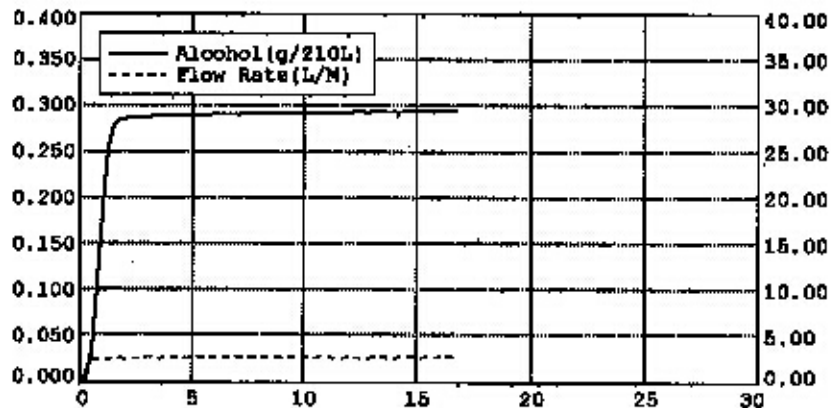
Date: 04/07/2011
Time: 16:07:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.17: 0.292
LOT #: 07411300A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	16:09
INTERNAL STANDARD	VERIFIED	16:09
EXTERNAL STANDARD	0.295	16:09
BLANK TEST	0.000	16:10
EXTERNAL STANDARD	0.292	16:11
BLANK TEST	0.000	16:12
EXTERNAL STANDARD	0.292	16:12
BLANK TEST	0.000	16:13
EXTERNAL STANDARD	0.293	16:13
BLANK TEST	0.000	16:14
EXTERNAL STANDARD	0.294	16:14
BLANK TEST	0.000	16:15

Average = 0.2932
Std Dev = 0.0013



SUBJECT TEST

Alaska Department of Public Safety
 INVENTORY dmt: 100390

Date: 04/08/2011
 Time: 09:19:22

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

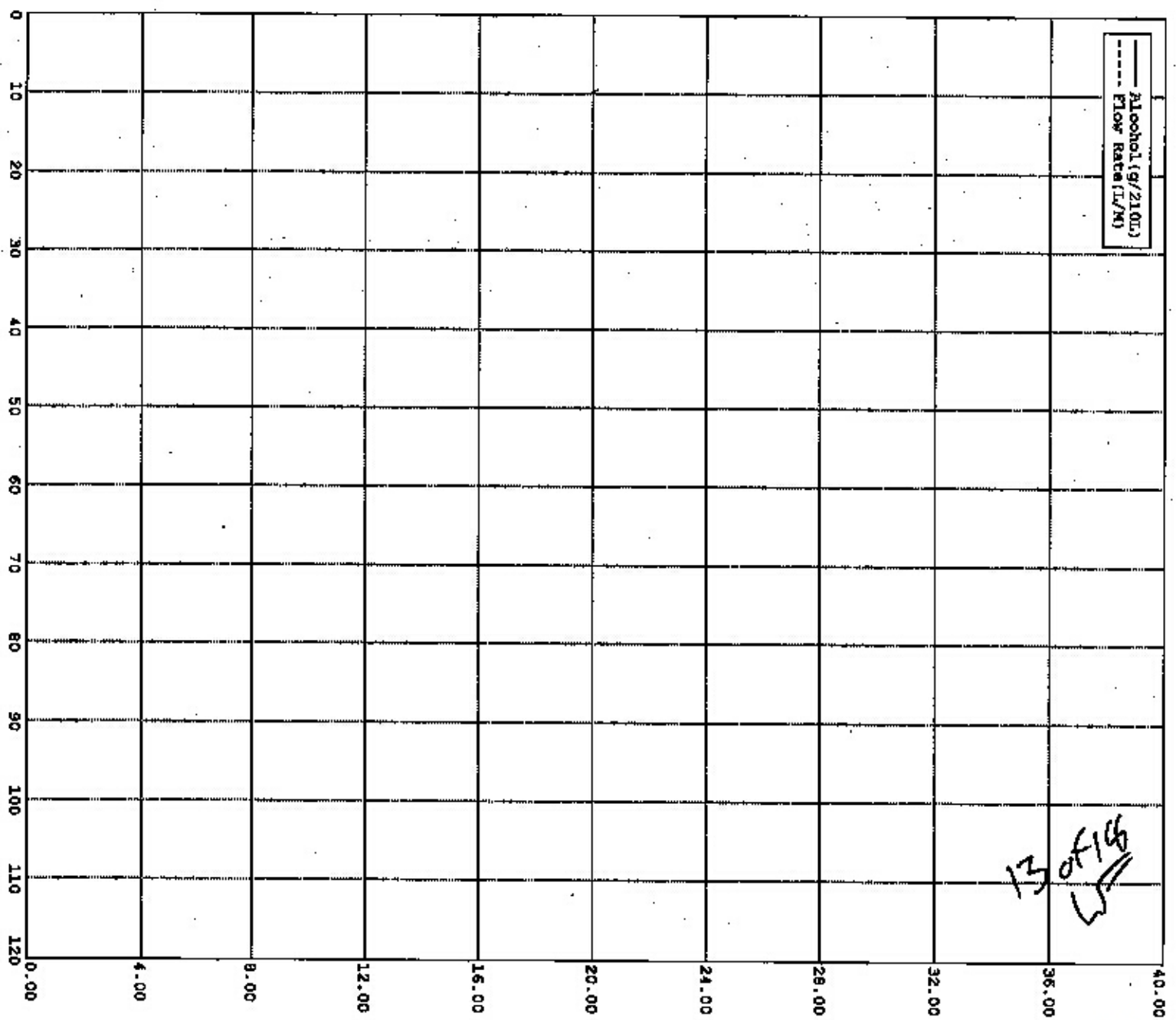
OPERATOR NAME:
 INCOMPLETE XXX
 OPERATOR'S #: XXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.16: 0.077
 LOT #: 0251108041
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:19
BLANK TEST	0.000	09:19
INTERNAL STANDARD	VERIFIED	09:19
EXTERNAL STANDARD	0.078	09:19
BLANK TEST	0.000	09:20
SUBJECT SAMPLE	INCOMPLETE	09:22

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100390

Date: 04/08/2011
Time: 09:26:54

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

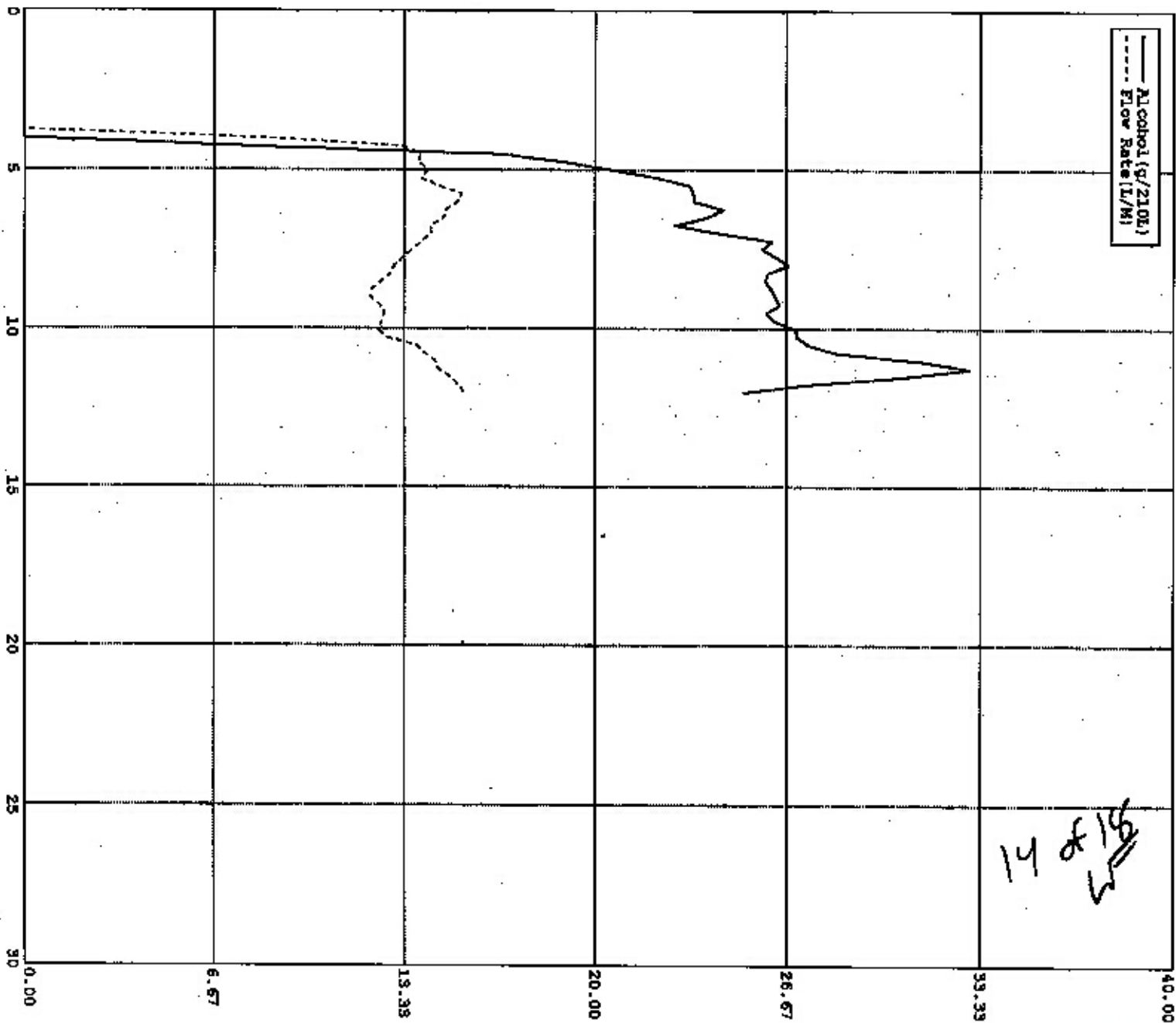
OPERATOR NAME:
INVALID KNOWN MOUTH ETCH
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.15: 0.077
LOT #: 02511080A1
EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:28
BLANK TEST	0.000	09:28
INTERNAL STANDARD	VERIFIED	09:28
EXTERNAL STANDARD	0.079	09:28
BLANK TEST	0.000	09:29
SUBJECT SAMPLE	INVALID	09:29

CRF



SUBJECT TEST

Alaska Department of Public Safety
 DATANUMSTAR num: 100390

Date: 04/08/2011
 Time: 09:34:37

SUBJECT NAME:
 TEST TEST
 VIALSERIAL #: XXXX

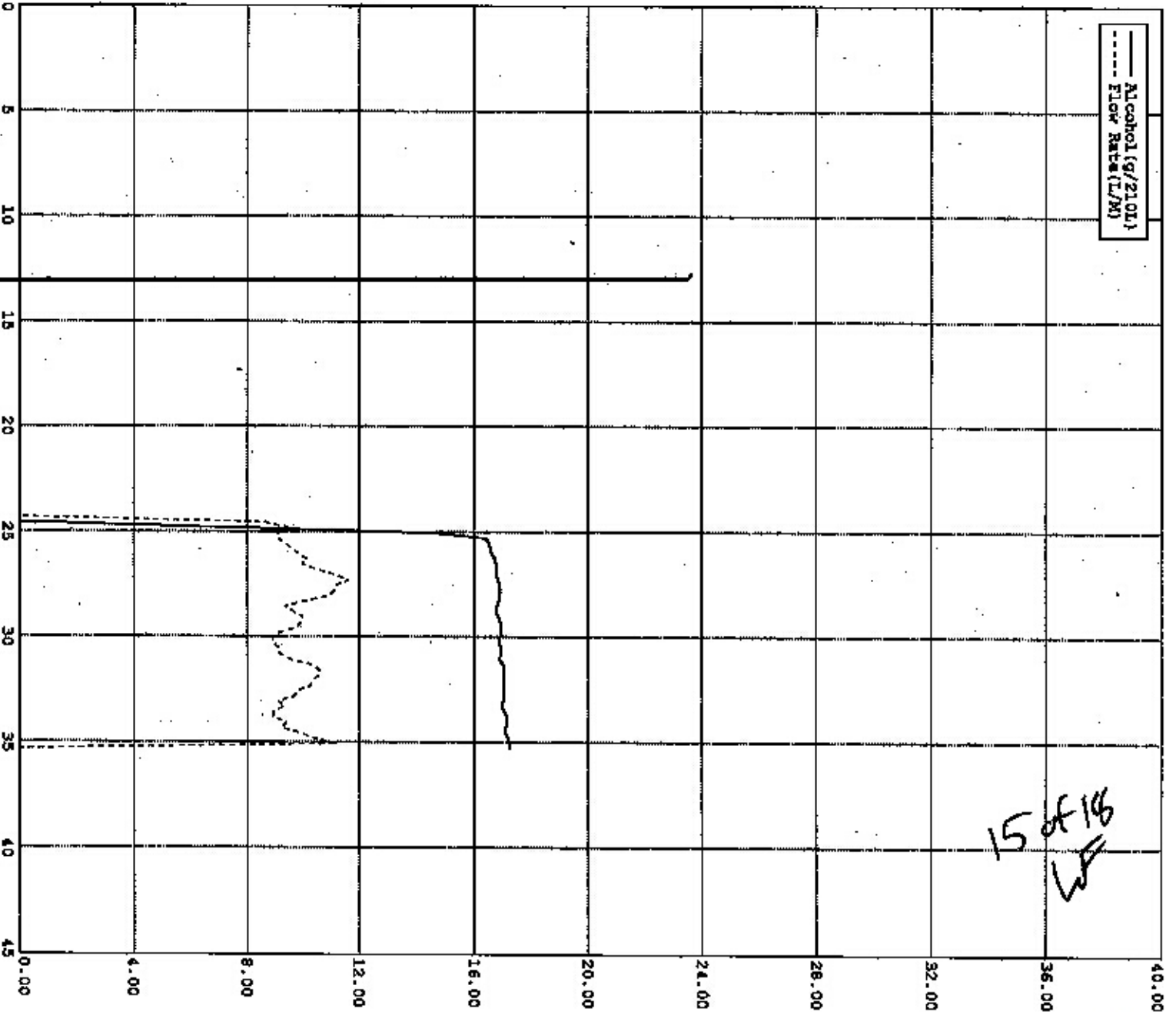
OPERATOR NAME:
 INTERFERENCE STOP AND ACETONE
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.15: 0.077
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	09:35
BLANK TEST	0.000	09:35
INTERNAL STANDARD	VERIFIED	09:35
EXTERNAL STANDARD	0.079	09:36
BLANK TEST	0.000	09:37
SUBJECT SAMPLE	INTERFERENCE	09:37

CRF



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmc: 100390

Date: 04/08/2011
Time: 09:41:20

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

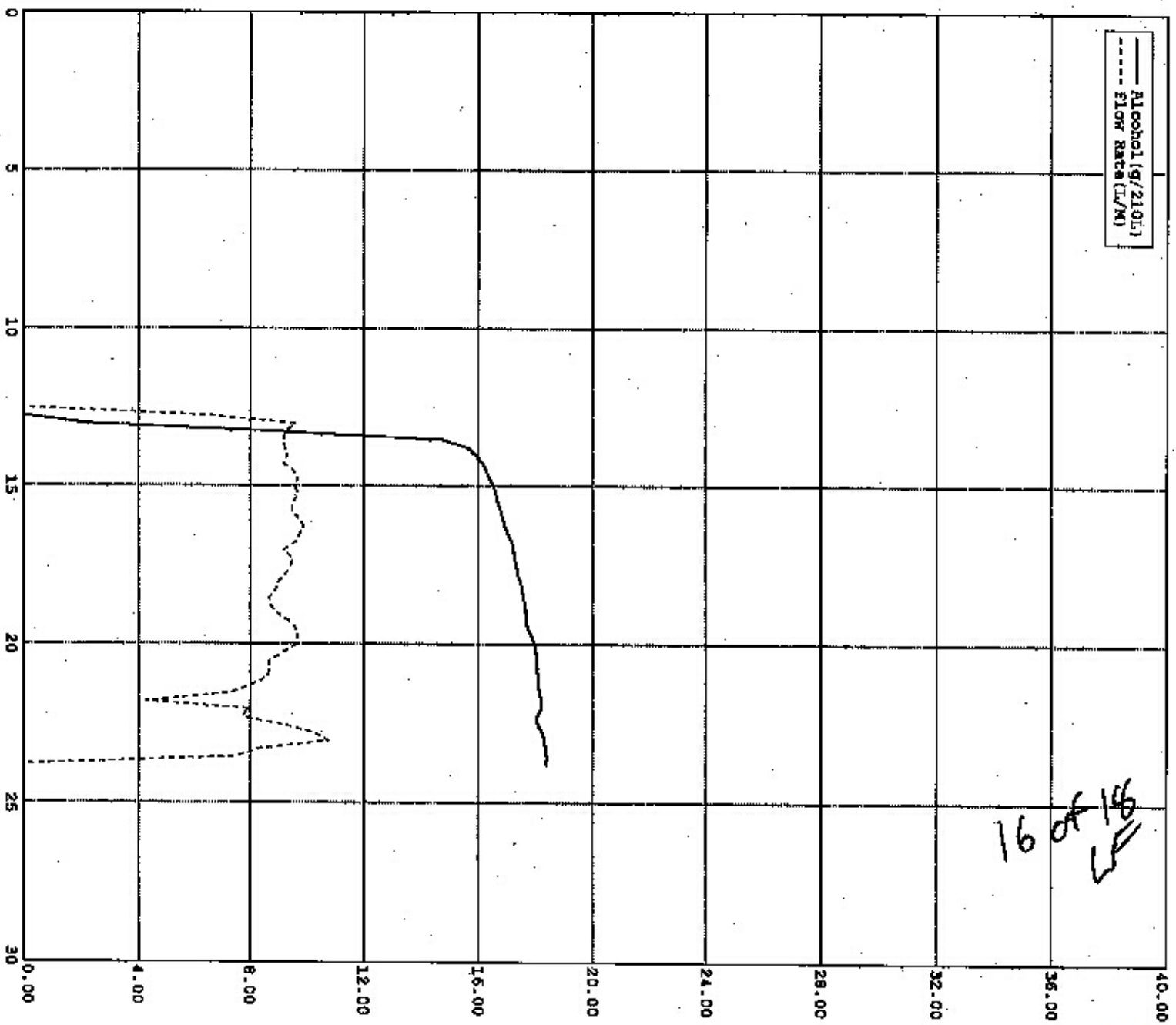
OPERATOR NAME:
INTERFERENCE FROM AND ISOPROPANOL
OPERATOR'S #: XXXX

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

EXTERNAL STANDARD IMPROBATION
NOMINAL: 0.080
TARGET AT 29.15: 0.077
LOR #: 025108091
EXPIRATION: 02/01/2013

TEST TYPE	RESULT	TIME
DIAGNOSTIC CHECK	PASSED	09:42
BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:42
EXTERNAL STANDARD	0.079	09:42
BLANK TEST	0.000	09:43
SUBJECT SAMPLE	INTERFERENCE	09:44

CRF



SUBJECT TEST

Alaska Department of Public Safety
 LABORATORY det: 100390

Date: 04/08/2011
 Time: 09:53:25

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

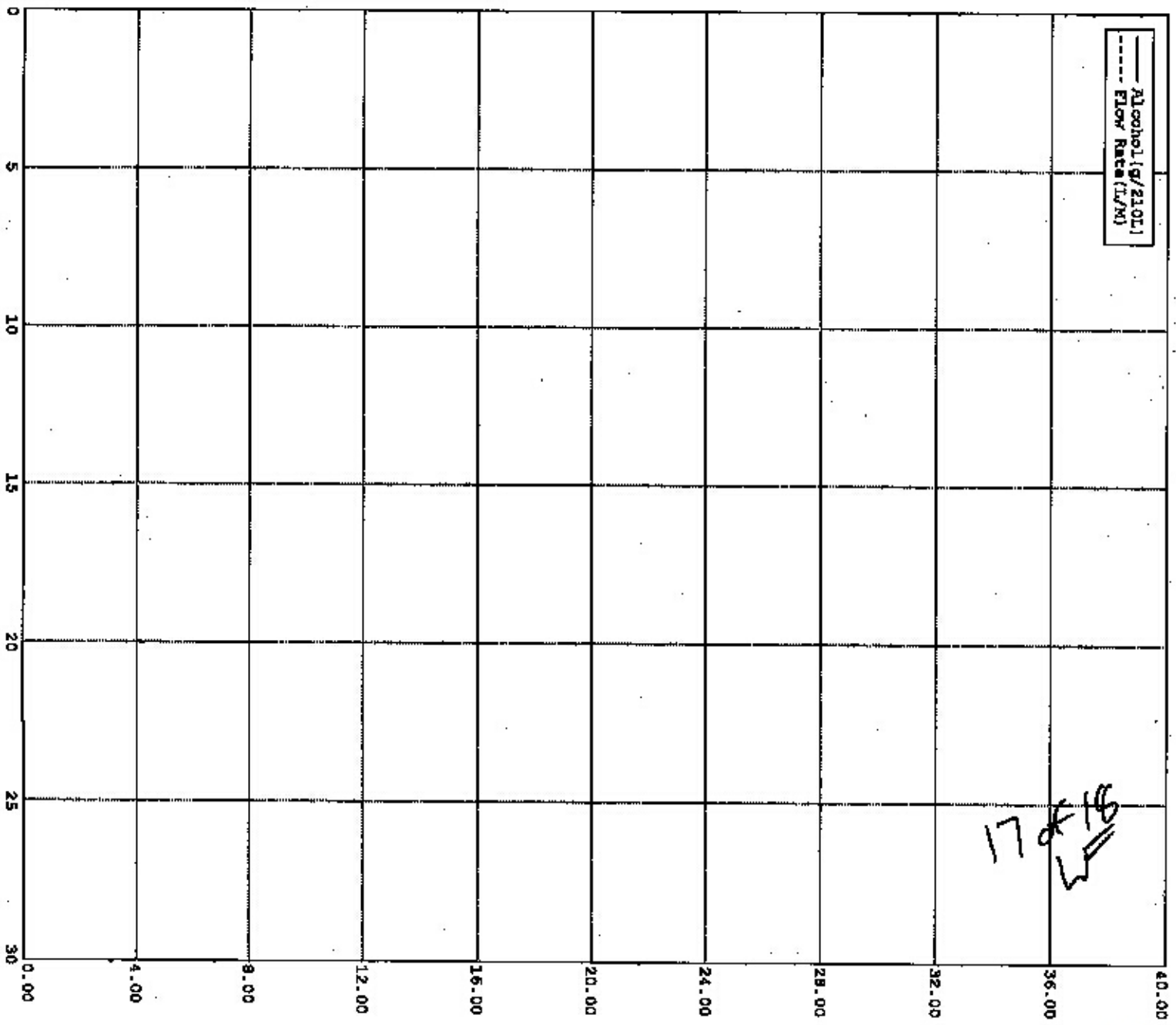
OPERATOR NAME:
 RTI XXXX
 OPERATOR'S #: XXXX

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.15: 0.077
 LOT #: 02511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK
 BLANK TEST PASSED 09:54
 INTERNAL STANDARD 0.000 09:54
 EXTERNAL STANDARD VERIFIED 09:54
 BLANK TEST 0.079 09:54
 0.000 09:55

RFT Detected



SUBJECT TEST

Alaska Department of Public Safety
 LABORATORY UNIT: 100390

Date: 04/08/2011
 Time: 10:12:31

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

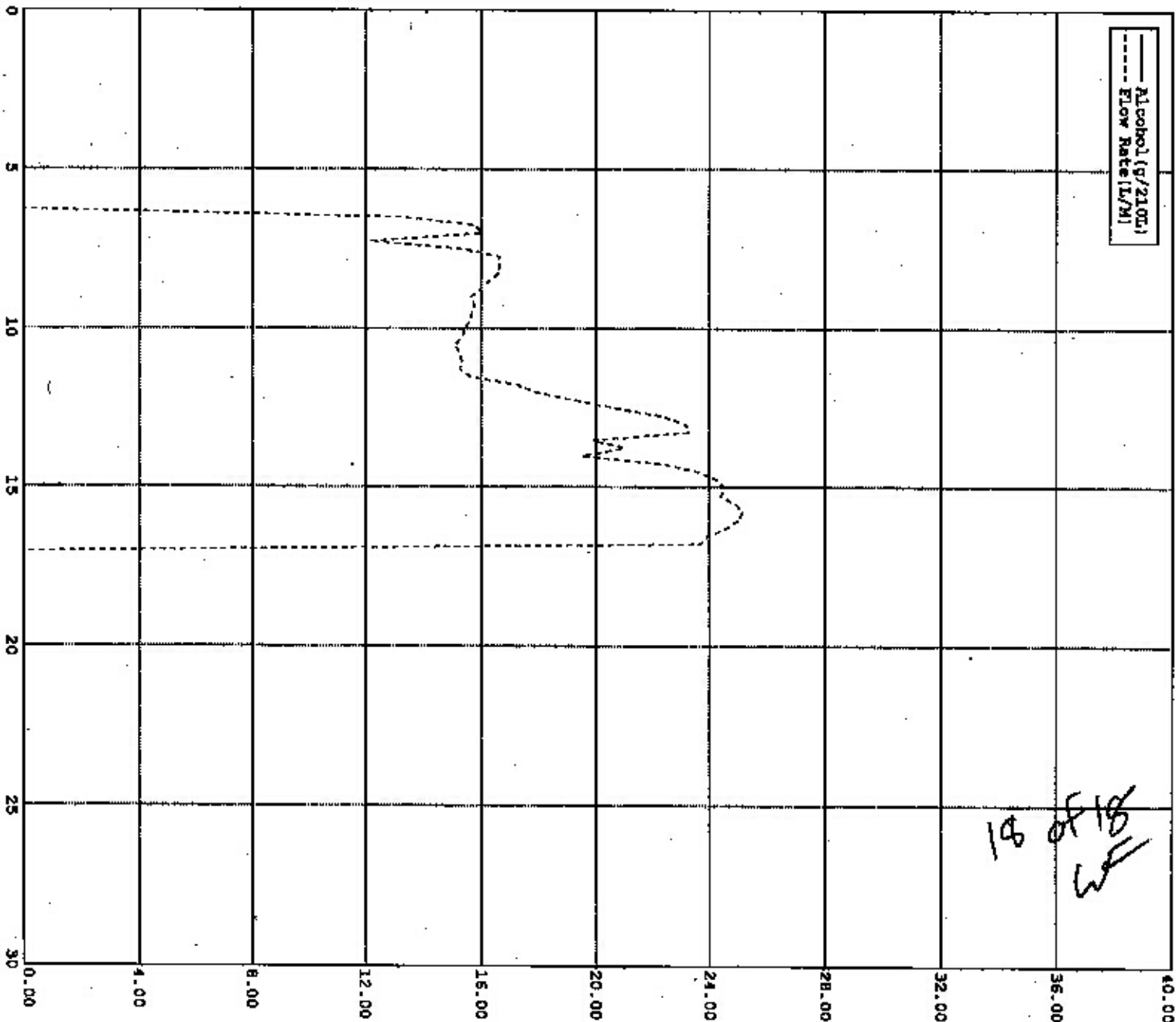
OPERATOR NAME:
 CHARLES FOSTER
 OPERATOR'S #: 7134

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

EXTERNAL STANDARD INFORMATION
 WEIGHT: 0.060
 TARGET AT 29.14: 0.077
 LOT #: D2511080A1
 EXPIRATION: 02/01/2013

DIAGNOSTIC CHECK	PASSED	10:13
BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.079	10:14
BLANK TEST	0.000	10:14
SUBJECT SAMPLE	0.000	10:15
INTERNAL TEST	0.000	10:16
EXTERNAL STANDARD	0.080	10:16
BLANK TEST	0.000	10:17

CRF



Final page for report

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