



Airgas USA LLC (LAB)  
3500 Bernard Street  
St. Louis, Mo. 63103  
Ph: (314) 533-3100  
Fax: (314) 533-7328

## Certificate of Analysis

**Customer Name**  
Exclusive Supplier  
Intoximeters, Inc.  
2081 Craig Road  
St. Louis, Mo 63146

**Test Date:** 14-Jun-2016

**Lot #** AG616504 **Model** 108cacc

<u>Exp. Date</u>	<u>Cyl. Type</u>	<u>Component</u>	<u>Certified Concentration</u>
13-Jun-2018	108	Ethanol Nitrogen	0.020 ± 0.002 BrAC (52 ppm) Balance

Certification Traceable to N.I.S.T. RGM Ethanol Standards:

<u>Serial No.</u>	<u>Concentration</u>	<u>Serial No.</u>	<u>Concentration</u>
EB0010581	391.8 ppm	EB0010603	392.5 ppm
EB0010570	259.8 ppm	EB0010559	258.9 ppm
EB0010285	209.0 ppm	EB0010595	208.9 ppm
EB0010561	103.7 ppm	EB0010562	104.9 ppm
EB0010681	52.22 ppm	EB0010579	52.94 ppm

**Analytical Method:** NDIR

Digitally signed by Quality Control  
Date: 2016.06.14 13:31:49 -05:00  
Reason: Dry gas standard certification of analysis  
Location: Airgas USA LLC (Lab)

Analyst:   
Rod Marsala

ISO 17025:2005 A2LA accredited. Certificate Number 2989.01

SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100348

Date: 01/25/2017  
 Time: 12:00:28

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.00: 0.019  
 TANK PRESSURE: 1226 psi

BLANK TEST	0.000	12:01
INTERNAL STANDARD	VERIFIED	12:01
EXTERNAL STANDARD	0.019	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.019	12:02
BLANK TEST	0.000	12:03
EXTERNAL STANDARD	0.019	12:04
BLANK TEST	0.000	12:04
EXTERNAL STANDARD	0.019	12:05
BLANK TEST	0.000	12:06
EXTERNAL STANDARD	0.019	12:06
BLANK TEST	0.000	12:07

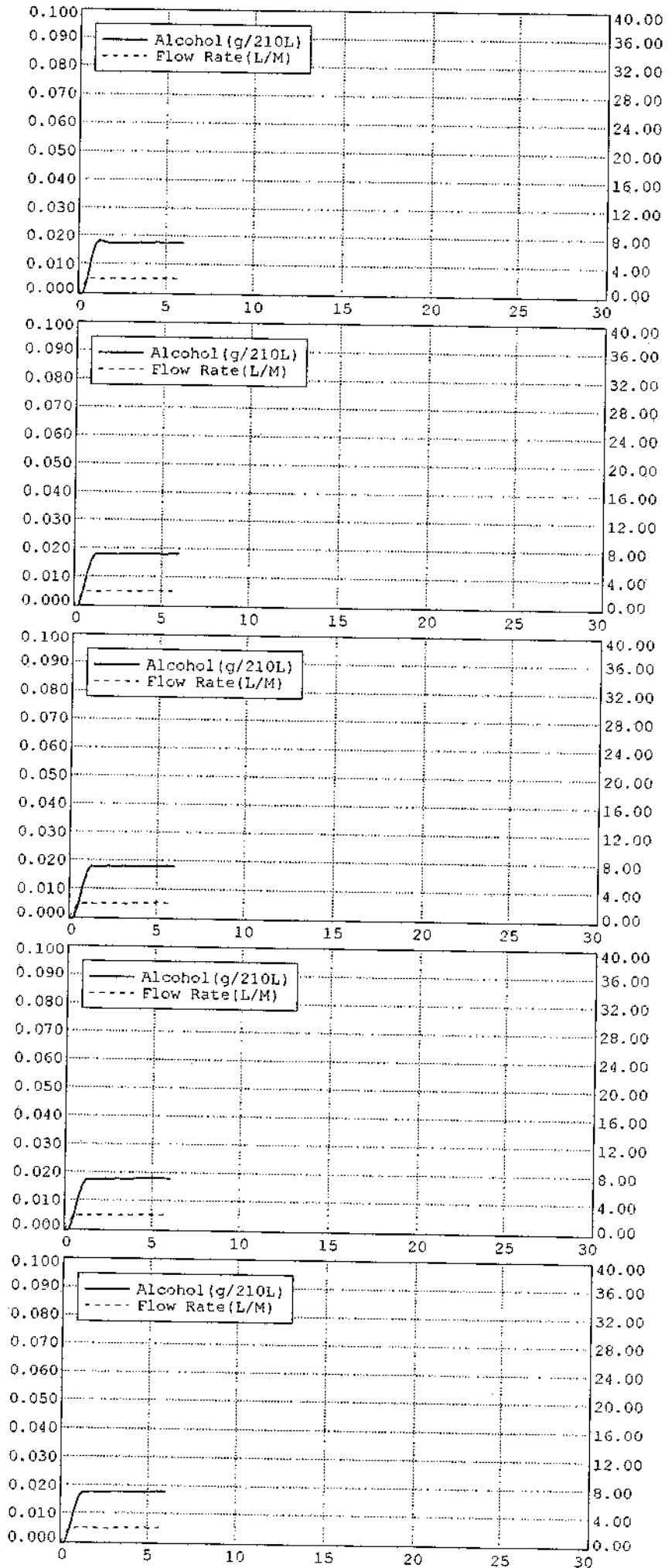
Average = 0.0190  
 Std Dev = 0.0000

Lot # AGL616504 (1)  
 Exp: 6/13/18  
 BMB 1/26/17

0.0190  
 0.0202  
 0.0200

BMB  
 1/26/17

$Avg = \frac{0.0190 + 0.0202 + 0.0200}{3} = 0.0197$   
 Target = 0.019



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100353

Date: 01/25/2017  
 Time: 13:13:50

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

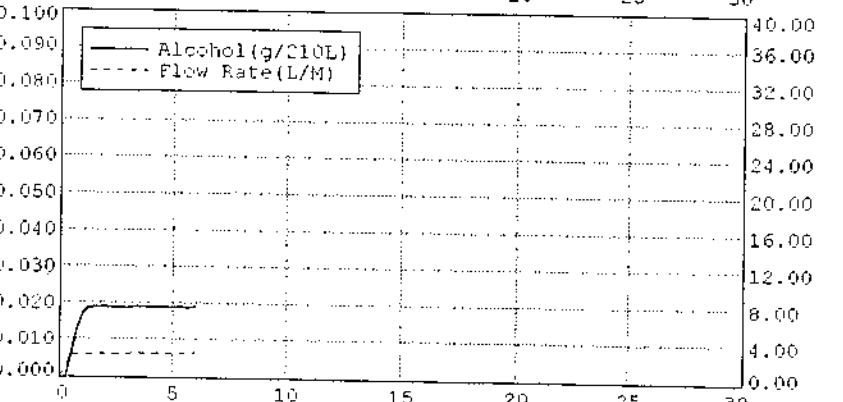
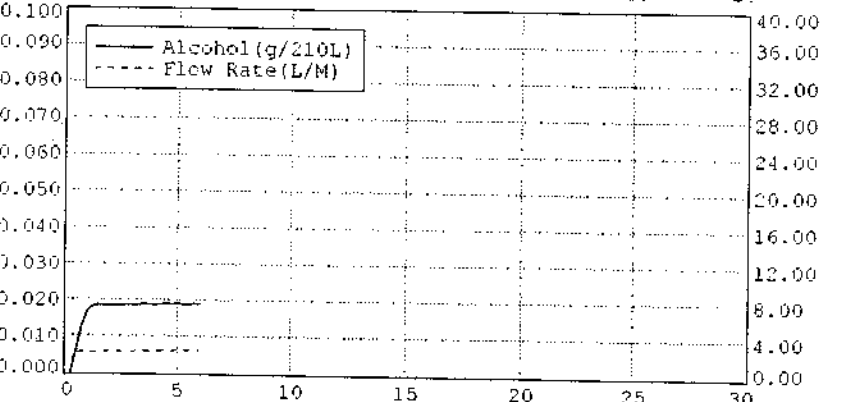
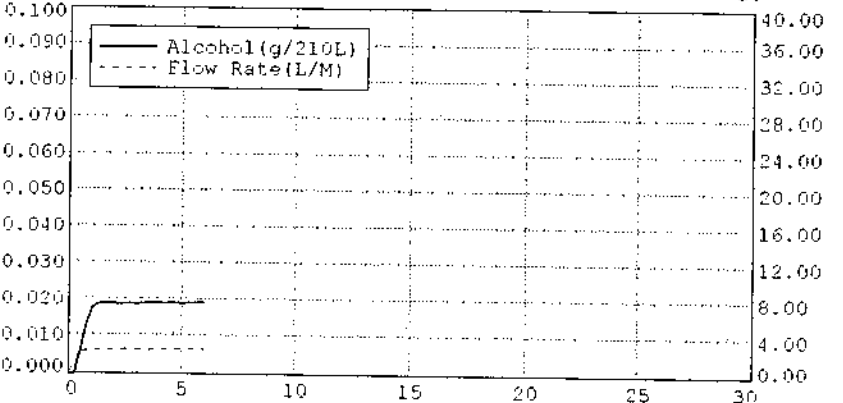
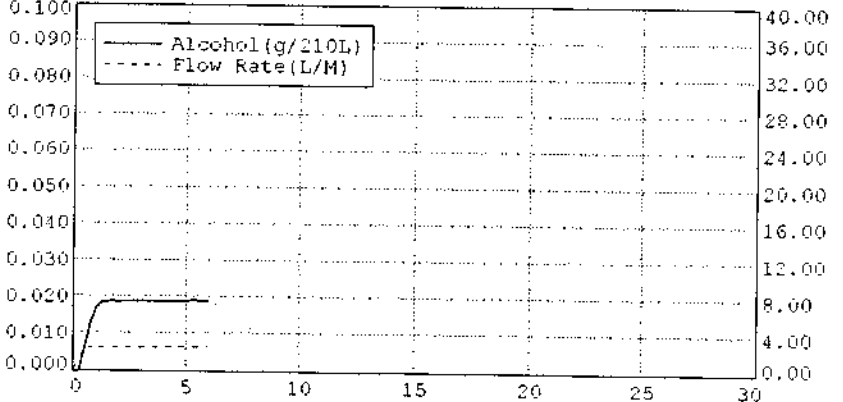
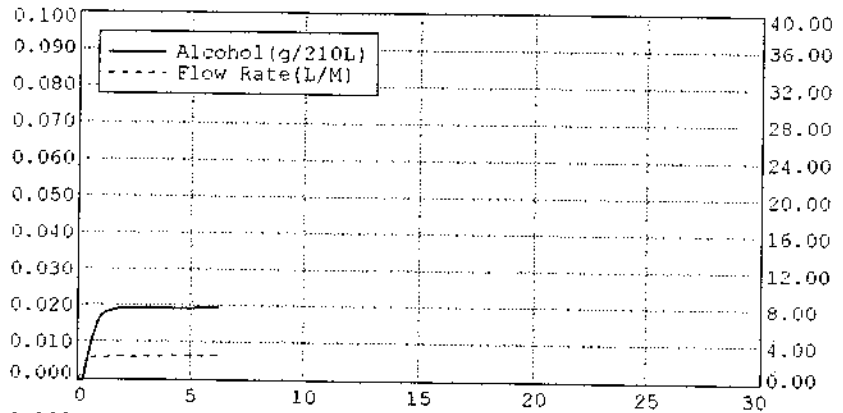
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.02: 0.019  
 TANK PRESSURE: 1217 psi

BLANK TEST	0.000	13:15
INTERNAL STANDARD	VERIFIED	13:15
EXTERNAL STANDARD	0.021	13:15
BLANK TEST	0.000	13:16
EXTERNAL STANDARD	0.020	13:16
BLANK TEST	0.000	13:17
EXTERNAL STANDARD	0.020	13:17
BLANK TEST	0.000	13:18
EXTERNAL STANDARD	0.020	13:18
BLANK TEST	0.000	13:19
EXTERNAL STANDARD	0.020	13:19
BLANK TEST	0.000	13:20

Average = 0.0202  
 Std Dev = 0.0004

Lot# AG616504 (1)  
 Exp: 6/13/18  
 BMB 1/26/17



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100411

Date: 01/25/2017  
 Time: 12:20:45

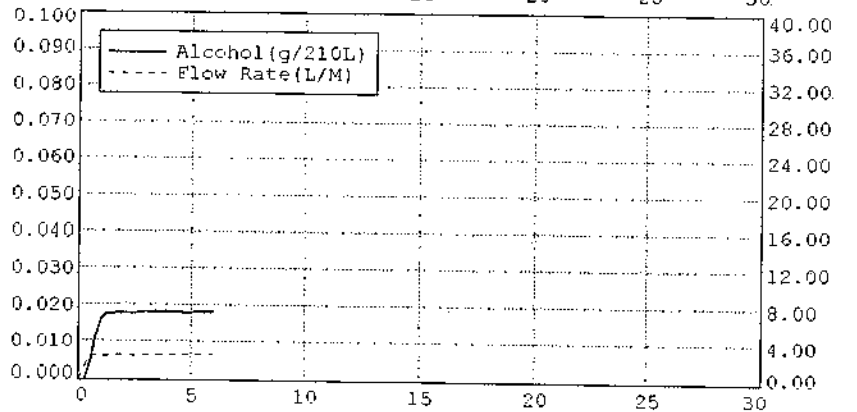
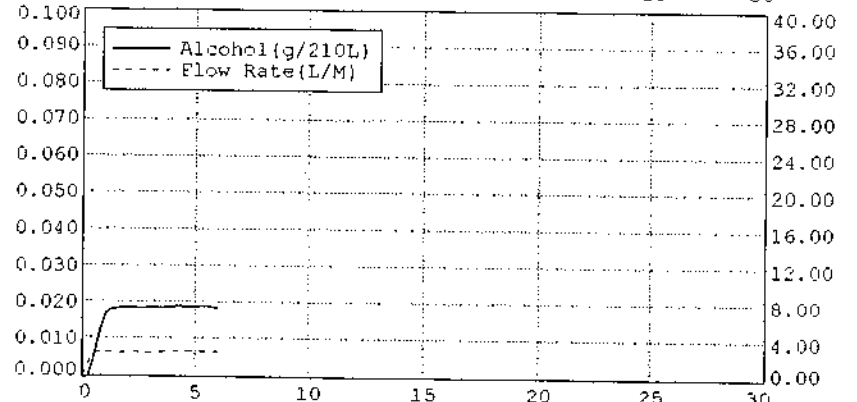
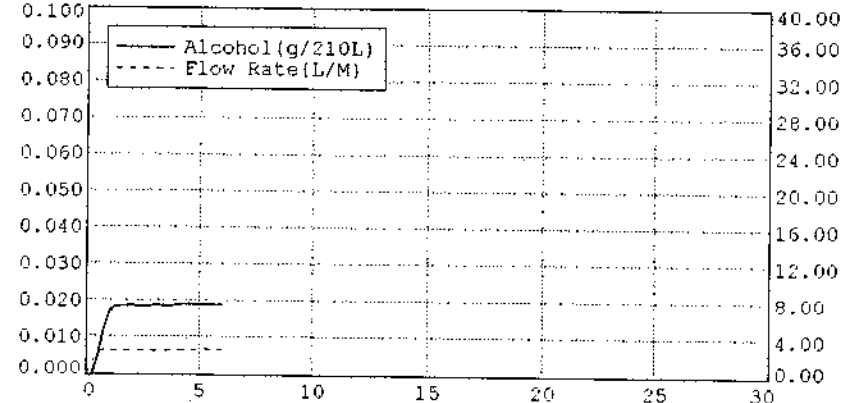
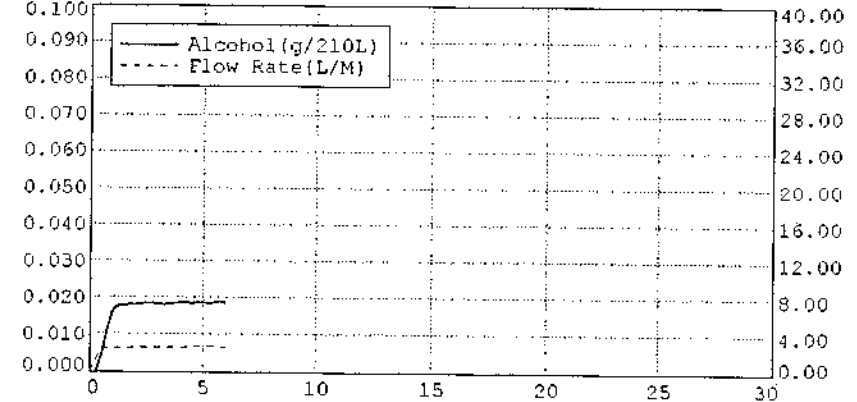
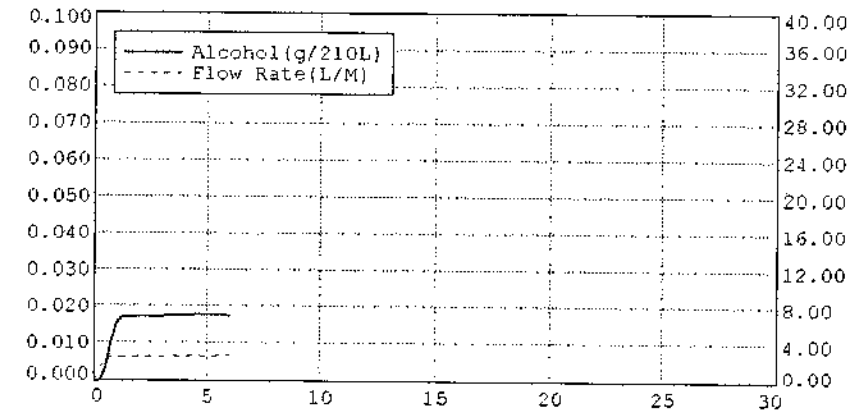
SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.03: 0.019  
 TANK PRESSURE: 1197 psi

BLANK TEST	0.000	12:21
INTERNAL STANDARD	VERIFIED	12:22
EXTERNAL STANDARD	0.019	12:22
BLANK TEST	0.000	12:23
EXTERNAL STANDARD	0.020	12:23
BLANK TEST	0.000	12:24
EXTERNAL STANDARD	0.021	12:24
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.020	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.020	12:26
BLANK TEST	0.000	12:27

Average = 0.0200  
 Std Dev = 0.0007

Lot# AG616504 (1)  
 Exp: 6/13/18  
 BMB 1/26/17



**SUPERVISOR TEST**

Alaska Department of Public Safety  
 DATAMASTER dmt: 100353

Date: 01/25/2017  
 Time: 12:59:59

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

**EXTERNAL STANDARD INFORMATION**

NOMINAL: 0.020  
 TARGET AT 29.02: 0.019  
 TANK PRESSURE: 1226 psi

BLANK TEST	0.000	13:01
INTERNAL STANDARD	VERIFIED	13:01
EXTERNAL STANDARD	0.020	13:01
BLANK TEST	0.000	13:02
EXTERNAL STANDARD	0.020	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.020	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.020	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.020	13:05
BLANK TEST	0.000	13:06

Average = 0.0200  
 Std Dev = 0.0000

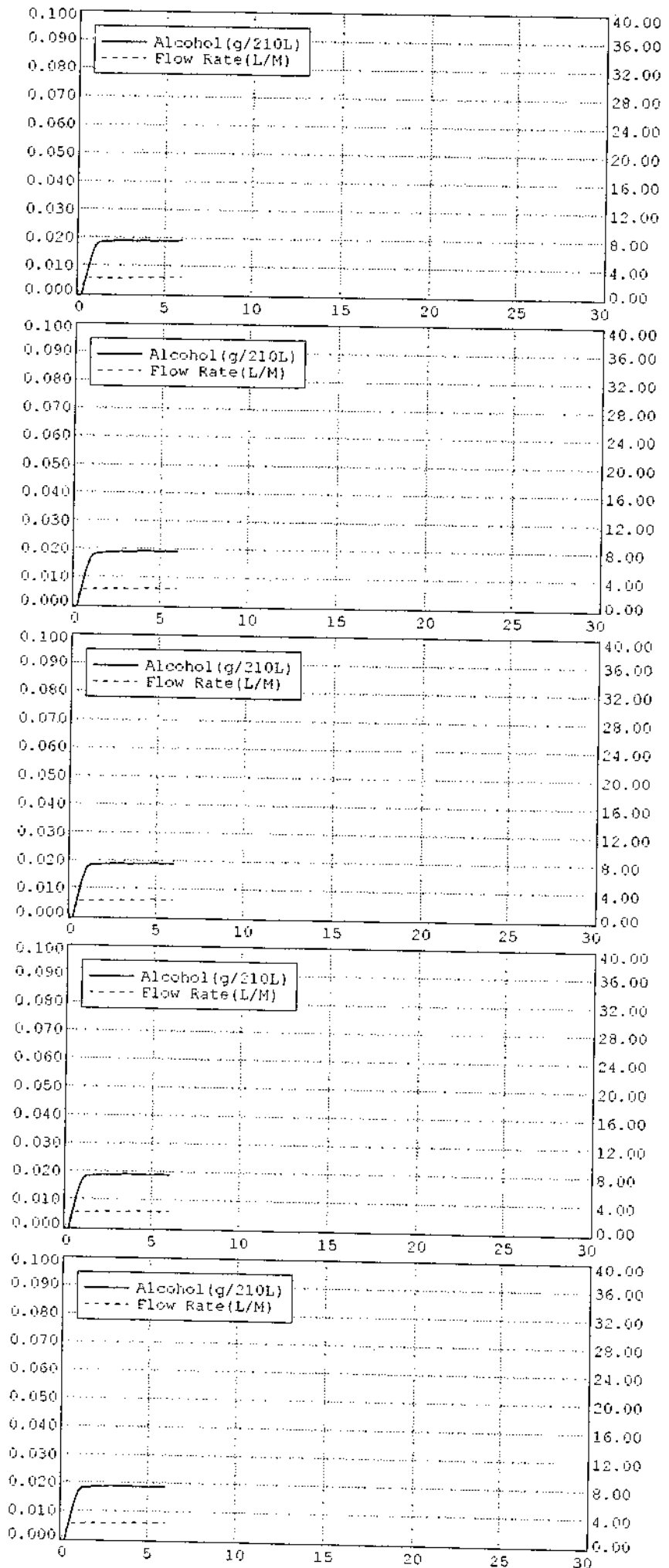
Lot# AG616504 (2)

Exp: 6/13/18

BMB 1/26/17

0.0200  
 0.0202  
 0.0190

Avg = 0.020  
 Target = 0.019



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100411

Date: 01/25/2017  
 Time: 12:09:57

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

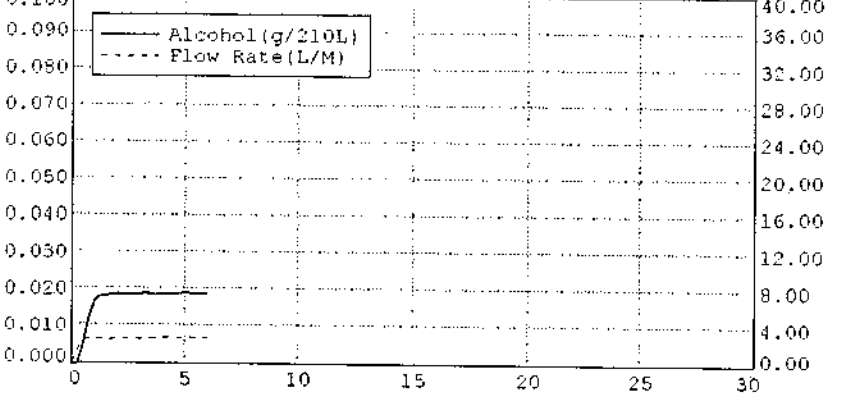
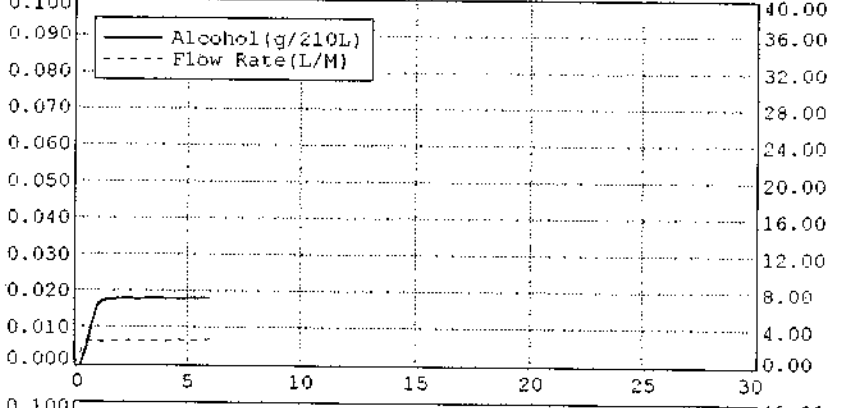
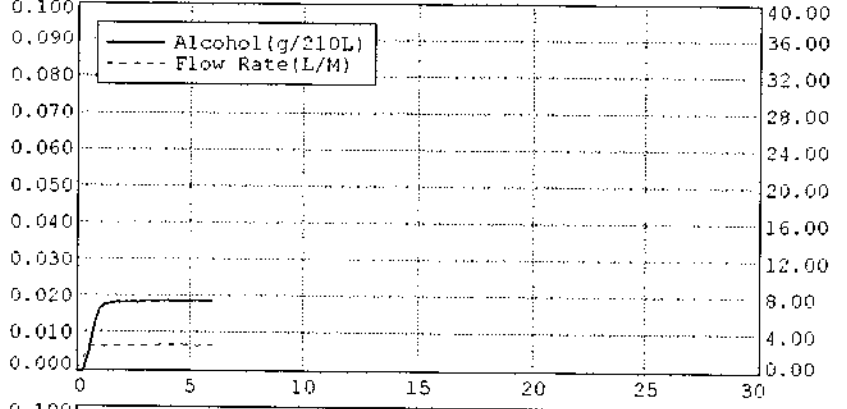
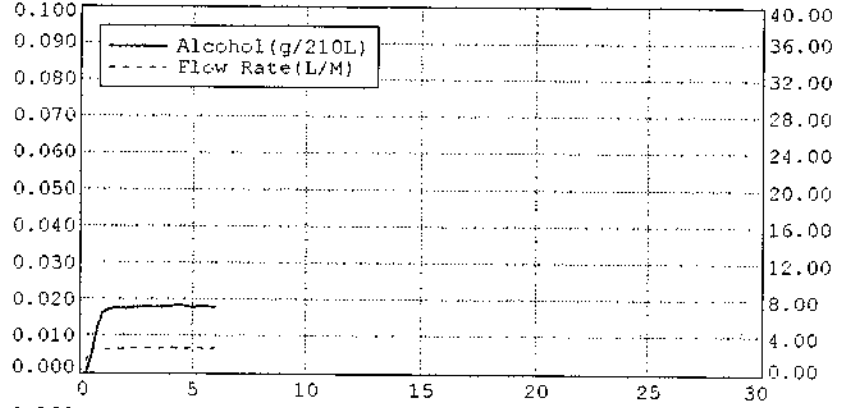
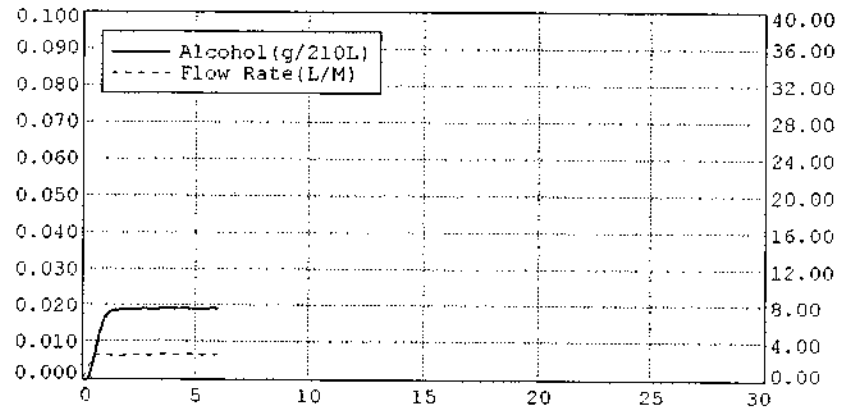
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.03: 0.019  
 TANK PRESSURE: 1218 psi

BLANK TEST	0.000	12:11
INTERNAL STANDARD	VERIFIED	12:11
EXTERNAL STANDARD	0.021	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.020	12:12
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.020	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.020	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.020	12:15
BLANK TEST	0.000	12:16

Average = 0.0202  
 Std Dev = 0.0004

Lot # ~~AG616504~~ <sup>AG616504</sup> <sub>BMB</sub> 1/26/17 (2)  
 Exp: 6/13/18  
 BMB 1/26/17



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100348

Date: 01/25/2017  
 Time: 12:22:57

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

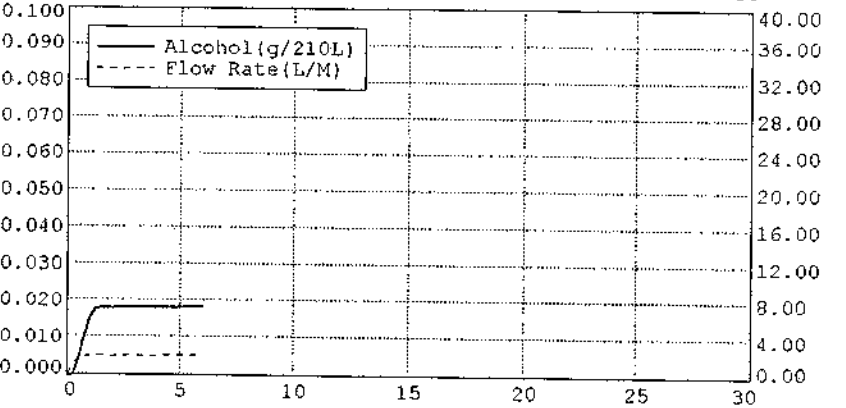
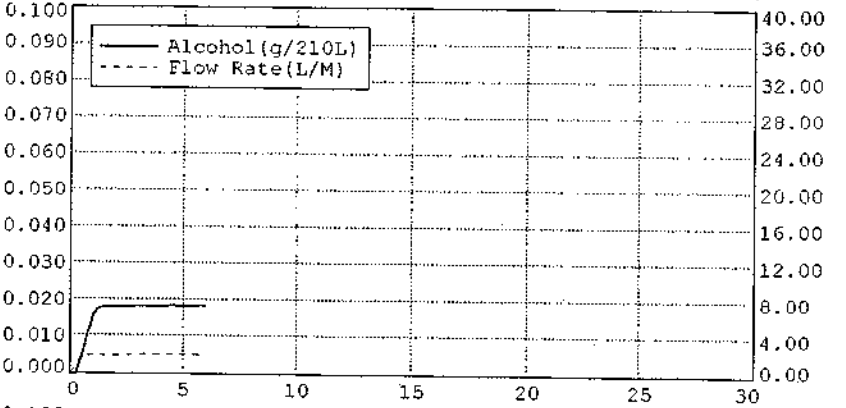
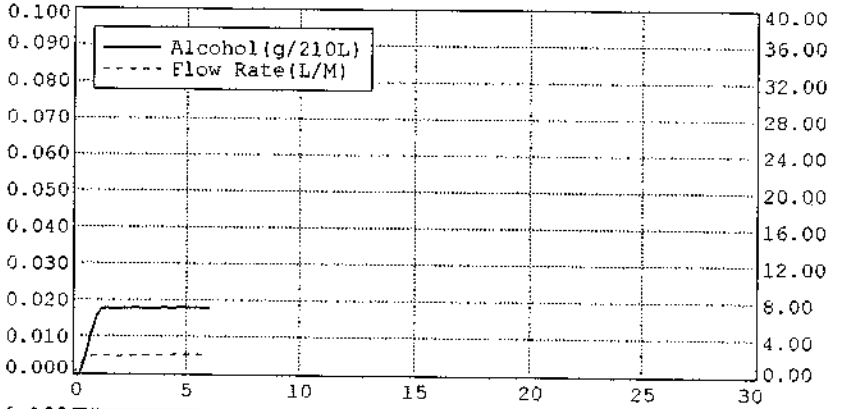
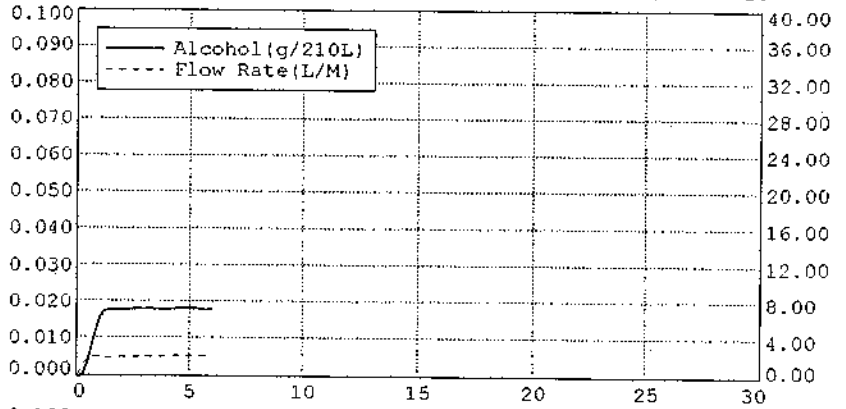
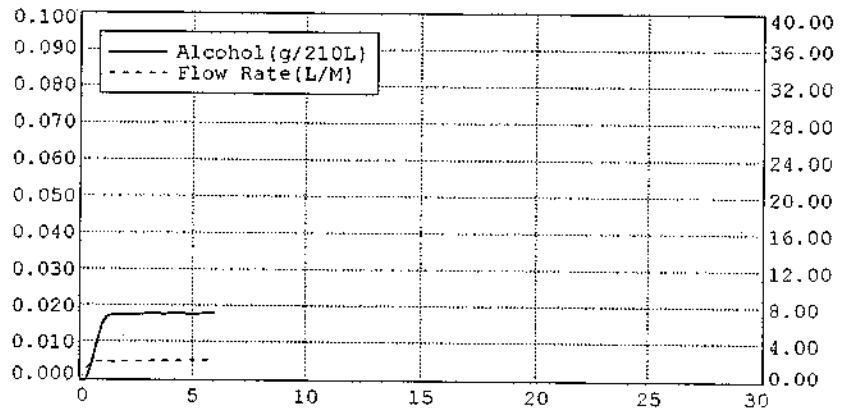
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.01: 0.019  
 TANK PRESSURE: 1207 psi

BLANK TEST	0.000	12:24
INTERNAL STANDARD	VERIFIED	12:24
EXTERNAL STANDARD	0.019	12:24
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.019	12:25
BLANK TEST	0.000	12:26
EXTERNAL STANDARD	0.019	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.019	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.019	12:28
BLANK TEST	0.000	12:29

Average = 0.0190  
 Std Dev = 0.0000

Lot # AG616504 (2)  
 Exp: 6/13/18  
 BMB 1/26/17



**SUPERVISOR TEST**

Alaska Department of Public Safety  
 DATAMASTER dmt: 100411

Date: 01/25/2017  
 Time: 11:57:16

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.02: 0.019  
 TANK PRESSURE: 1210 psi

BLANK TEST	0.000	11:58
INTERNAL STANDARD	VERIFIED	11:58
EXTERNAL STANDARD	0.019	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.020	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.020	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.020	12:01
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.020	12:03
BLANK TEST	0.000	12:03

Average = 0.0198  
 Std Dev = 0.0004

Lot #: AG616504 (3)

Exp: 6/13/18

BMB 1/26/17

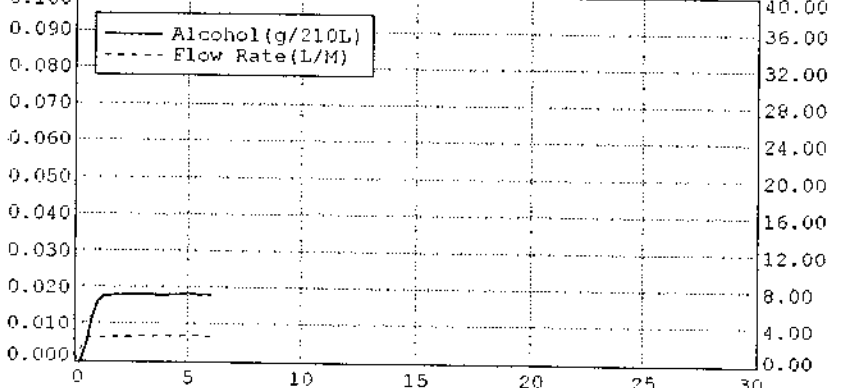
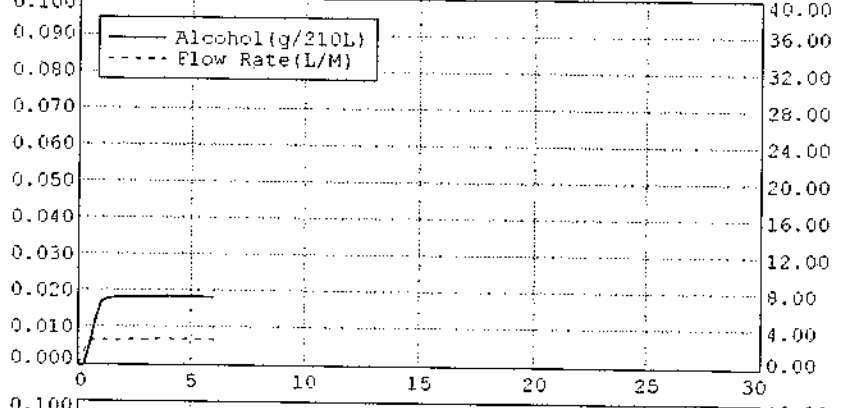
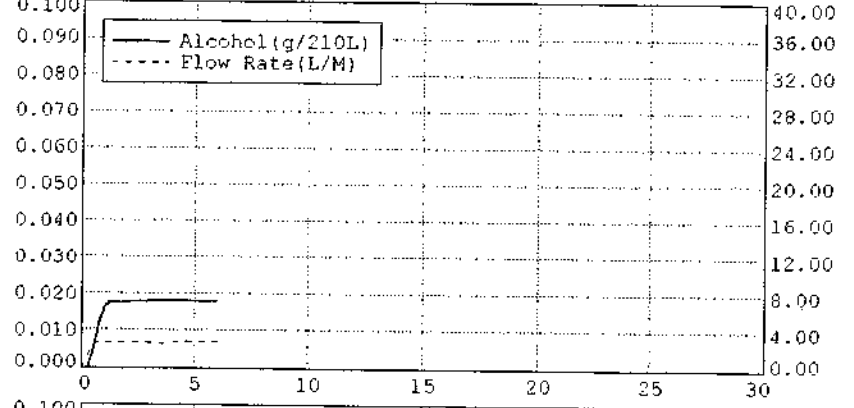
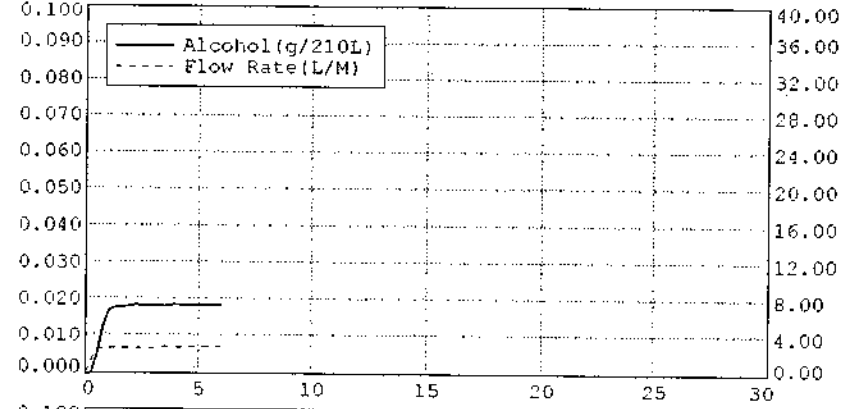
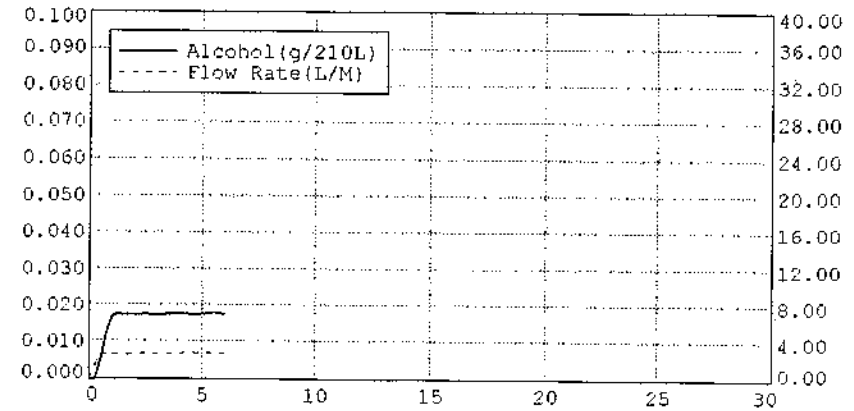
0.0198

0.0190

0.0200

BMB  
 1/26/17

0.0198  
~~0.0190~~  
 Avg = ~~0.0190~~ 0.020  
 Target = 0.019





SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100348

Date: 01/25/2017  
 Time: 12:12:08

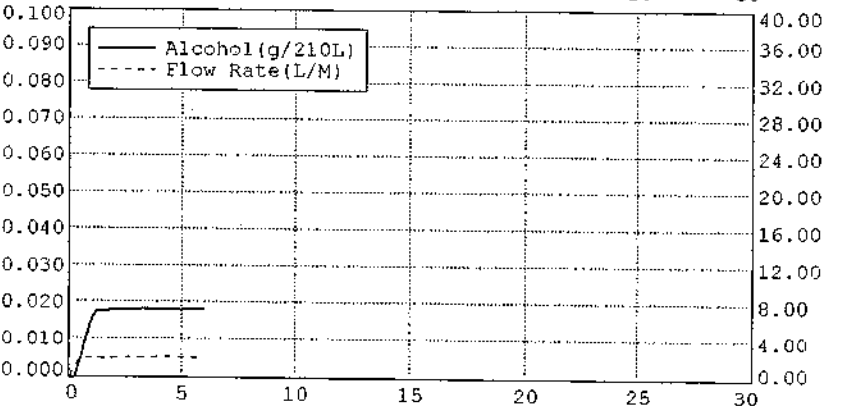
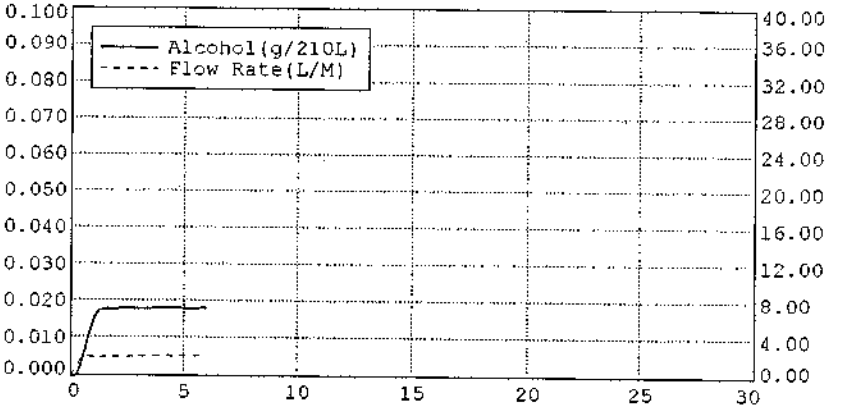
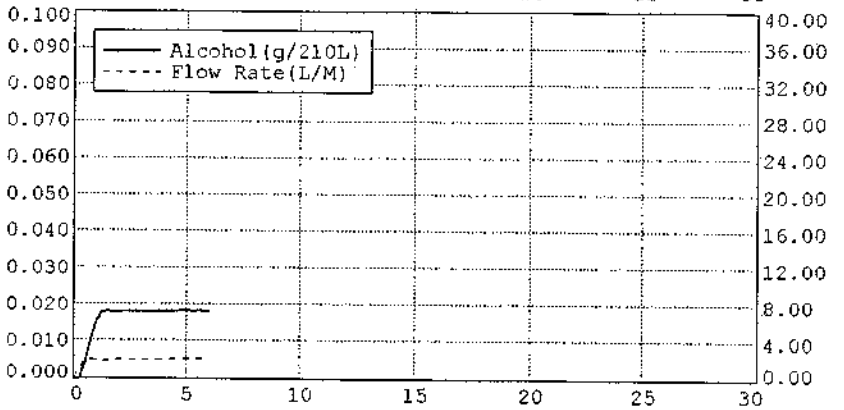
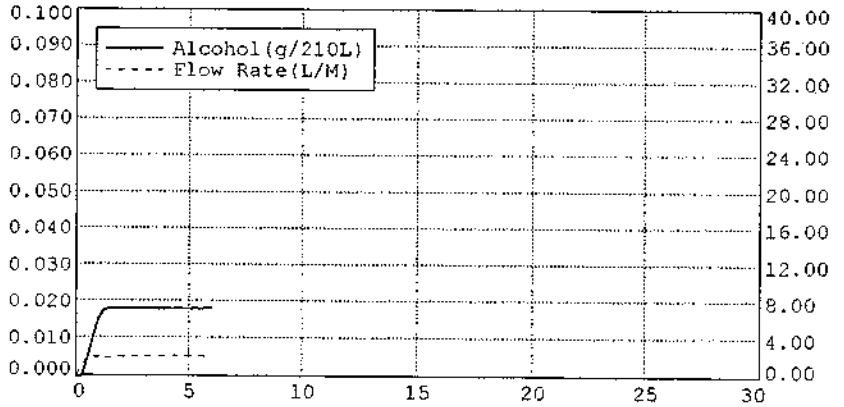
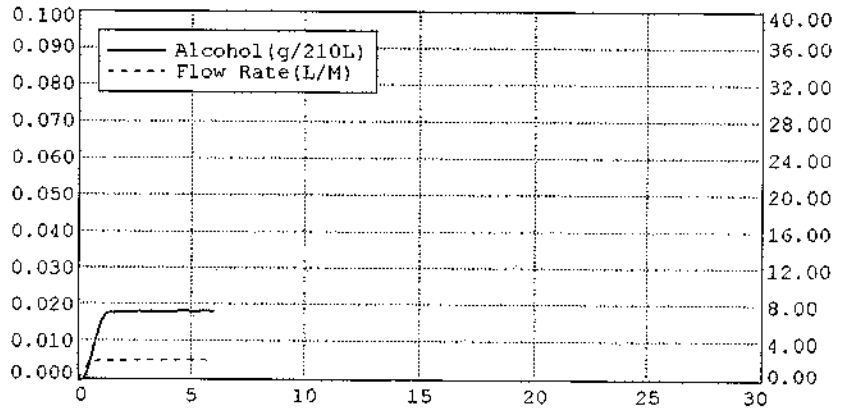
SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

EXTERNAL STANDARD INFORMATION  
 NOMINAL: 0.020  
 TARGET AT 29.00: 0.019  
 TANK PRESSURE: 1208 psi

BLANK TEST	0.000	12:13
INTERNAL STANDARD	VERIFIED	12:13
EXTERNAL STANDARD	0.019	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.019	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.019	12:15
BLANK TEST	0.000	12:16
EXTERNAL STANDARD	0.019	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.019	12:17
BLANK TEST	0.000	12:18

Average = 0.0190  
 Std Dev = 0.0000

Lot # AG616504 (3)  
 Exp: 6/13/18  
 BMB 1/26/17



SUPERVISOR TEST

Alaska Department of Public Safety  
 DATAMASTER dmt: 100353

Date: 01/25/2017  
 Time: 13:24:41

SUPERVISOR NAME:  
 BRANDI BARNETT  
 OPERATOR'S #: 7038

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020  
 TARGET AT 29.02: 0.019  
 TANK PRESSURE: 1191 psi

BLANK TEST	0.000	13:25
INTERNAL STANDARD	VERIFIED	13:26
EXTERNAL STANDARD	0.020	13:26
BLANK TEST	0.000	13:27
EXTERNAL STANDARD	0.020	13:27
BLANK TEST	0.000	13:28
EXTERNAL STANDARD	0.020	13:28
BLANK TEST	0.000	13:29
EXTERNAL STANDARD	0.020	13:29
BLANK TEST	0.000	13:30
EXTERNAL STANDARD	0.020	13:30
BLANK TEST	0.000	13:31

Average = 0.0200  
 Std Dev = 0.0000

Lot # AG616504 (3)

Exp: 6/13/18

BMB 1/26/17

