

**Methyl Iodide Retention Efficiency Vs. Flow Rate  
 ASTM D 3803-1989  
 AGZ35, SHORT-TERM, C;M;B Geometry, 30x50, 0603079-1, July 2006**

Quadratic Function:  $y = -0.4469x^2 - 1.6936x + 101.93$

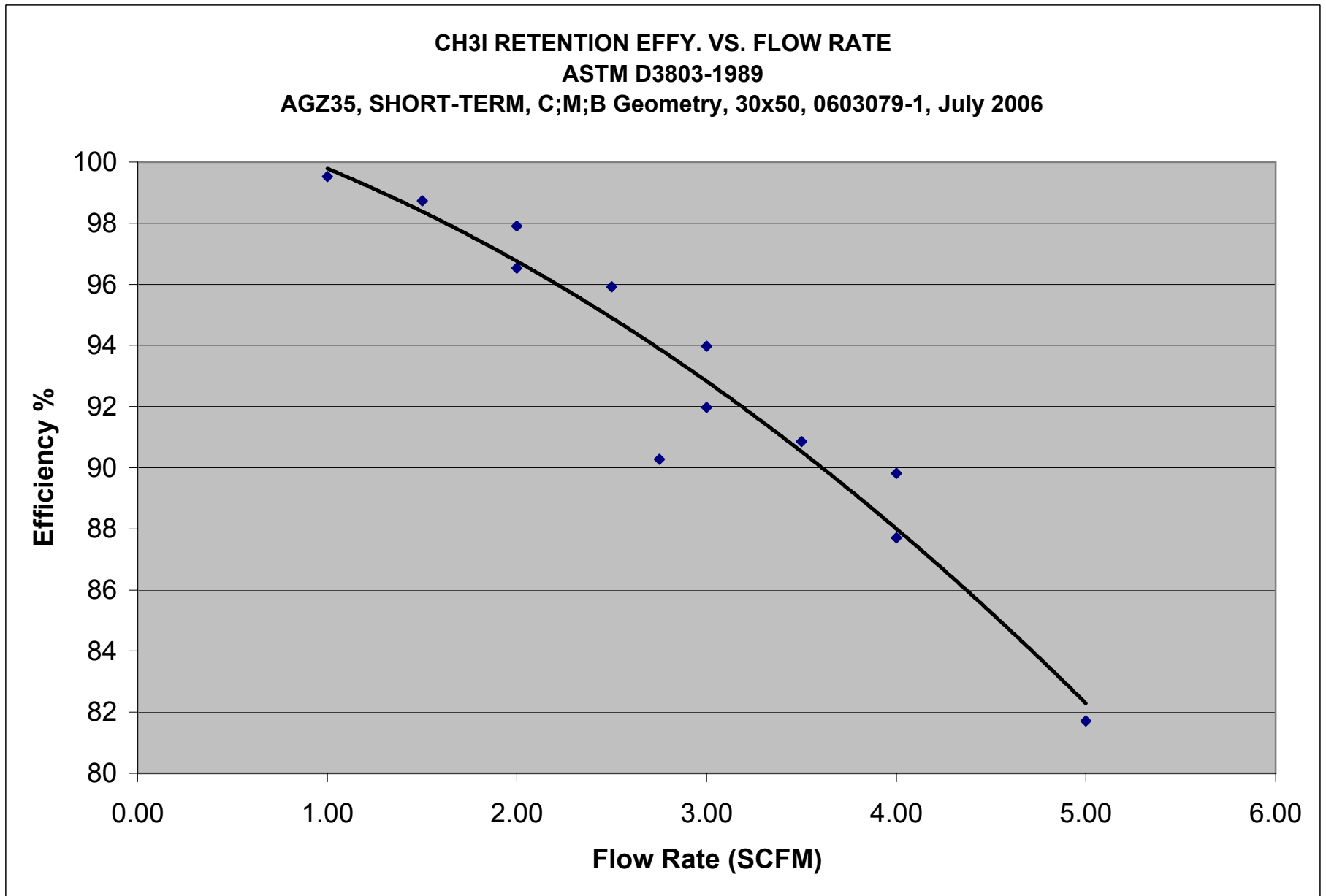
Standard Deviation: 1.3976

Table of Residuals

No.	X Obs (CFM)	Y Obs (%)	Y Calc (%)	Difference
1	1.00	99.53	99.79	-0.26
2	1.50	98.73	98.38	0.35
3	2.00	97.90	96.76	1.14
4	2.00	96.53	96.76	-0.23
5	2.50	95.92	94.90	1.02
6	2.75	90.28	93.89	-3.61
7	3.00	93.97	92.83	1.14
8	3.00	91.98	92.83	-0.85
9	3.50	90.86	90.53	0.33
10	4.00	89.82	88.01	1.81
11	4.00	87.71	88.01	-0.30
12	5.00	81.71	82.29	-0.58

Evaluation of Y's

No.	X Given (CFM)	X Given (LPM)	Y Calculated % Retention
1	0.25	7.08	101.48
2	0.50	14.15	100.97
3	0.75	21.23	100.41
4	1.00	28.30	99.79
5	1.25	35.38	99.11
6	1.50	42.45	98.38
7	1.75	49.53	97.60
8	2.00	56.60	96.76
9	2.25	63.68	95.86
10	2.50	70.75	94.90
11	2.75	77.83	93.89
12	3.00	84.90	92.83
13	3.25	91.98	91.71
14	3.50	99.05	90.53
15	3.75	106.13	89.29
16	4.00	113.20	88.01
17	4.25	120.28	86.66
18	4.50	127.35	85.26
19	4.75	134.43	83.80
20	5.00	141.50	82.29
21	5.25	148.58	80.72
22	5.50	155.65	79.10
23	5.75	162.73	77.42
24	6.00	169.80	75.68



**Methyl Iodide Retention Efficiency Vs. Flow Rate**  
**ASTM D 3803-1998**  
**AGZ35, INT, C;M;B Geometry, 30x50, #160102-0003, March, 2016**

Quadratic Function:  $y = -0.2298x^2 - 2.297x + 101.91$

Standard Deviation      2.103019338

Table of Residuals

No.	X Obs (CFM)	Y Obs (%)	Y Calc (%)	Difference
1	0.50	99.98	100.70	-0.72
2	0.50	99.99	100.70	-0.71
3	0.50	99.99	100.70	-0.71
4	0.50	99.98	100.70	-0.72
5	0.75	99.88	100.06	-0.18
6	0.75	99.97	100.06	-0.09
7	0.75	99.94	100.06	-0.12
8	0.75	99.94	100.06	-0.12
9	0.90	99.86	99.66	0.20
10	1.00	99.79	99.38	0.41
11	1.00	99.21	99.38	-0.17
12	1.00	99.73	99.38	0.35
13	1.00	99.76	99.38	0.38
14	1.00	99.67	99.38	0.29
15	1.25	99.80	98.68	1.12
16	1.25	98.89	98.68	0.21
17	1.25	99.05	98.68	0.37
18	1.50	95.58	97.95	-2.37
19	1.50	98.90	97.95	0.95
20	1.50	95.79	97.95	-2.16
21	1.50	97.42	97.95	-0.53
22	1.65	98.65	97.49	1.16
23	1.75	96.49	97.19	-0.70
24	1.75	98.72	97.19	1.53
25	1.75	96.53	97.19	-0.66
26	1.75	99.94	97.19	2.75
27	2.00	95.04	96.40	-1.36
28	2.00	98.45	96.40	2.05
29	2.00	96.82	96.40	0.42
30	2.00	97.36	96.40	0.96
31	2.00	97.51	96.40	1.11
32	2.00	95.83	96.40	-0.57
33	2.00	96.75	96.40	0.35
34	2.00	99.97	96.40	3.57
35	2.00	96.25	96.40	-0.15
36	2.15	97.25	95.91	1.34
37	2.25	93.82	95.58	-1.76
38	2.25	95.55	95.58	-0.03
39	2.25	98.32	95.58	2.74
40	2.25	94.94	95.58	-0.64
41	2.50	93.94	94.73	-0.79
42	2.50	92.03	94.73	-2.70

43	2.50	89.53	94.73	-5.20
44	2.50	98.41	94.73	3.68
45	2.75	94.09	93.86	0.23
46	2.75	90.57	93.86	-3.29
47	2.75	91.64	93.86	-2.21
48	2.75	95.91	93.86	2.05
49	3.00	88.38	92.95	-4.57
50	3.00	94.41	92.95	1.46
51	3.00	95.28	92.95	2.33
52	3.00	93.75	92.95	0.80
53	3.25	94.63	92.02	2.61
54	3.25	91.14	92.02	-0.88
55	3.25	95.38	92.02	3.36
56	3.25	94.03	92.02	2.01
57	3.50	87.91	91.06	-3.15
58	3.50	91.55	91.06	0.49
59	3.50	83.95	91.06	-7.11
60	3.75	89.77	90.06	-0.29
61	3.75	88.25	90.06	-1.81
62	3.75	93.97	90.06	3.91
63	4.00	88.11	89.05	-0.94
64	4.00	91.36	89.05	2.31
65	4.00	86.59	89.05	-2.46
66	4.00	88.97	89.05	-0.08
67	4.25	87.56	88.00	-0.44
68	4.50	85.41	86.92	-1.51
69	4.50	91.63	86.92	4.71
70	4.50	85.19	86.92	-1.73
71	4.25	87.86	88.00	-0.14
72	5.00	84.85	84.68	0.17
73	5.00	88.44	84.68	3.76
74	5.00	82.07	84.68	-2.61

**Methyl Iodide Retention Efficiency Vs. Flow Rate**  
**ASTM D 3803-1998**  
**AGZ35, INT, C;M;B Geometry, 30x50, #160102-0003, March, 2016**

Quadratic Function:  $y = -0.2298x^2 - 2.297x + 101.91$

Standard Deviation      6.591864496

**Evaluation of Y's**

No.	X Given (CFM)	X Given (LPM)	Y Calculated % Retention
1	0.25	7.08	101.46
2	0.50	14.15	100.80
3	0.75	21.23	100.12
4	1.00	28.30	99.41
5	1.25	35.38	98.67
6	1.50	42.45	97.91
7	1.75	49.53	97.13
8	2.00	56.60	96.32
9	2.25	63.68	95.49
10	2.50	70.75	94.64
11	2.75	77.83	93.76
12	3.00	84.90	92.85
13	3.25	91.98	91.92
14	3.50	99.05	90.97
15	3.75	106.13	89.99
16	4.00	113.20	88.99
17	4.25	120.28	87.96
18	4.50	127.35	86.91
19	4.75	134.43	85.83
20	5.00	141.50	84.74
21	5.25	148.58	83.61
22	5.50	155.65	82.46
23	5.75	162.73	81.29
24	6.00	169.80	80.09

**CH3I RETENTION EFFY. VS. FLOW RATE**  
**ASTM 3803-1998**  
**AGZ35, INT, C;M;B Geometry, 30x50, 160102-0003, March, 2016**

