

Methyl Iodide Retention Efficiency Vs. Flow Rate
 ASTM D 3803 Method A
 TE3, Short, C-Series;M;B Geometry, 20x40, 2-15-1988

Quadratic Equation: $Y = -0.1253x^2 - 3.4068x + 101.52$

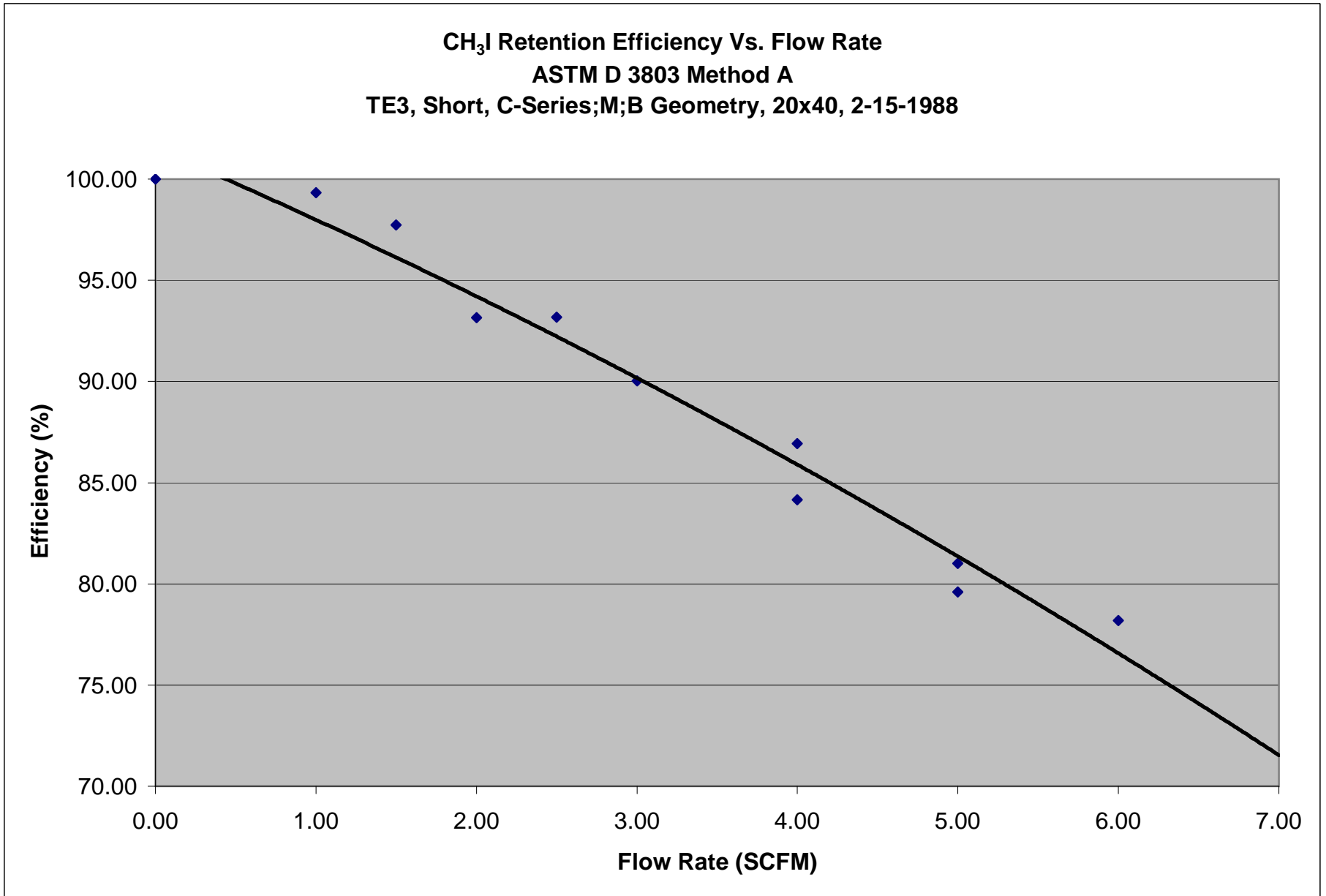
Standard Deviation: 1.365405

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.00	100.00	101.52	-1.52
2	1.00	99.34	97.99	1.35
3	1.50	97.74	96.13	1.61
4	2.00	93.15	94.21	-1.06
5	2.50	93.17	92.22	0.95
6	3.00	90.02	90.17	-0.15
7	4.00	86.92	85.89	1.03
8	4.00	84.16	85.89	-1.73
9	5.00	81.02	81.35	-0.33
10	5.00	79.60	81.35	-1.75
11	6.00	78.19	76.57	1.62

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	100.66
2	0.50	14.16	99.79
3	0.75	21.24	98.89
4	1.00	28.32	97.99
5	1.25	35.40	97.07
6	1.50	42.48	96.13
7	1.75	49.55	95.17
8	2.00	56.63	94.21
9	2.25	63.71	93.22
10	2.50	70.79	92.22
11	2.75	77.87	91.20
12	3.00	84.95	90.17
13	3.25	92.03	89.12
14	3.50	99.11	88.06
15	3.75	106.19	86.98
16	4.00	113.27	85.89
17	4.25	120.35	84.78
18	4.50	127.43	83.65
19	4.75	134.51	82.51
20	5.00	141.58	81.35



Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1989
TE3, INT, C-Series;M;B Geometry, 20x40, # 46-14, May, 2015

Quadratic Equation: $Y = 0.044x^2 - 4.354x + 104.4$

Standard Deviation: 2.591876343

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.50	99.99	102.23	-2.24
2	0.75	100.00	101.16	-1.16
3	0.75	100.00	101.16	-1.16
4	0.75	99.98	101.16	-1.18
5	1.00	99.62	100.09	-0.47
6	1.00	96.70	100.09	-3.39
7	1.00	99.56	100.09	-0.53
8	1.00	97.64	100.09	-2.45
9	1.00	99.99	100.09	-0.10
10	1.00	99.99	100.09	-0.10
11	1.06	99.26	99.83	-0.57
12	1.25	99.91	99.03	0.88
13	1.25	99.27	99.03	0.24
14	1.50	99.77	97.97	1.80
15	1.50	99.95	97.97	1.98
16	1.75	97.41	96.92	0.49
17	1.75	99.36	96.92	2.44
18	2.00	95.20	95.87	-0.67
19	2.00	91.45	95.87	-4.42
20	2.00	95.44	95.87	-0.43
21	2.00	96.68	95.87	0.81
22	2.00	99.45	95.87	3.58
23	2.00	96.36	95.87	0.49
24	2.00	99.20	95.87	3.33
25	2.15	97.22	95.24	1.98
26	2.25	98.68	94.83	3.85
27	2.25	95.29	94.83	0.46
28	2.50	94.90	93.79	1.11
29	2.50	94.61	93.79	0.82
30	2.75	95.51	92.76	2.75
31	2.75	90.65	92.76	-2.11
32	2.75	95.22	92.76	2.46
33	3.00	91.57	91.73	-0.16
34	3.00	87.18	91.73	-4.55
35	3.00	93.11	91.73	1.38
36	3.00	97.20	91.73	5.47
37	3.18	90.79	91.00	-0.21
38	3.25	89.54	90.71	-1.17
39	3.50	87.88	89.70	-1.82
40	3.50	94.24	89.70	4.54
41	3.75	89.44	88.69	0.75

42	3.75	83.94	88.69	-4.75
43	4.00	88.43	87.69	0.74
44	4.00	87.36	87.69	-0.33
45	4.00	84.93	87.69	-2.76
46	4.00	96.24	87.69	8.55
47	4.25	85.93	86.69	-0.76
48	4.25	86.14	86.69	-0.55
49	4.50	89.00	85.70	3.30
50	4.50	88.86	85.70	3.16
51	4.50	89.52	85.70	3.82
52	4.75	85.10	84.71	0.39
53	4.75	82.78	84.71	-1.93
54	5.00	83.40	83.73	-0.33
55	5.00	82.22	83.73	-1.51
56	5.25	84.95	82.75	2.20
57	5.30	80.45	82.56	-2.11
58	5.50	78.69	81.78	-3.09
59	6.00	74.74	79.86	-5.12
60	6.00	78.07	79.86	-1.79
61	6.00	76.72	79.86	-3.14
62	6.00	79.17	79.86	-0.69
63	6.25	76.22	78.91	-2.69
64	8.00	72.67	72.38	0.29
65	10.00	69.03	65.26	3.77

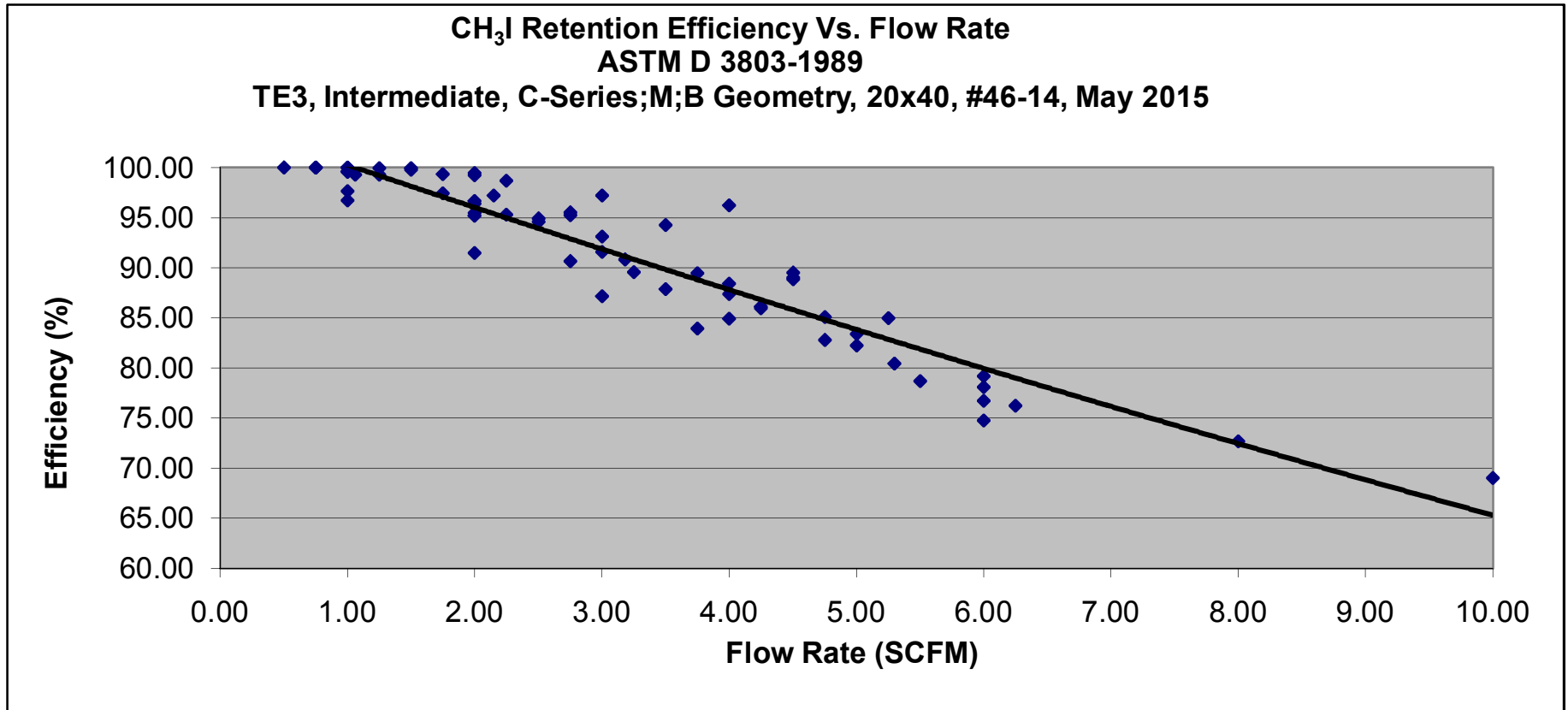
Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1989
TE3, INT, C-Series;M;B Geometry, 20x40, # 46-14, May, 2015

Quadratic Equation: $Y = 0.044x^2 - 4.354x + 104.4$

Standard Deviation: 2.591876343

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	103.31
2	0.50	14.16	102.23
3	0.75	21.24	101.16
4	1.00	28.32	100.09
5	1.25	35.40	99.03
6	1.50	42.48	97.97
7	1.75	49.55	96.92
8	2.00	56.63	95.87
9	2.25	63.71	94.83
10	2.50	70.79	93.79
11	2.75	77.87	92.76
12	3.00	84.95	91.73
13	3.25	92.03	90.71
14	3.50	99.11	89.70
15	3.75	106.19	88.69
16	4.00	113.27	87.69
17	4.25	120.35	86.69
18	4.50	127.43	85.70
19	4.75	134.51	84.71
20	5.00	141.58	83.73
21	5.25	148.66	82.75
22	5.50	155.74	81.78
23	5.75	162.82	80.82
24	6.00	169.90	79.86
25	6.25	176.98	78.91
26	6.50	184.06	77.96
27	6.75	191.14	77.02
28	7.00	198.22	76.08
29	7.25	205.30	75.15
30	7.50	212.38	74.22
31	7.75	219.46	73.30
32	8.00	226.53	72.38
33	8.25	233.61	71.47
34	8.50	240.69	70.57
35	8.75	247.77	69.67
36	9.00	254.85	68.78



**Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1989
TE3, Long, C-Series;M;B Geometry, 20x40, 5/22/2007**

Quadratic Equation: $Y = -0.588x^2 - 0.7542x + 100.61$

Standard Deviation: 1.10296

Table of Residuals

No.	X Obs. (SCFM)	Y Obs.	Y Calc.	Difference
1	0.00	100.00	100.61	-0.61
2	1.00	99.86	99.27	0.59
3	1.10	99.19	99.07	0.12
4	2.00	97.11	96.75	0.36
5	2.00	97.58	96.75	0.83
6	3.00	93.75	93.06	0.69
7	3.00	92.42	93.06	-0.64
8	3.20	89.52	92.18	-2.66
9	4.00	89.39	88.19	1.20
10	5.30	80.15	80.10	0.05

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.25	7.08	100.38
2	0.50	14.16	100.09
3	0.75	21.24	99.71
4	1.00	28.32	99.27
5	1.25	35.40	98.75
6	1.50	42.48	98.16
7	1.75	49.55	97.49
8	2.00	56.63	96.75
9	2.25	63.71	95.94
10	2.50	70.79	95.05
11	2.75	77.87	94.09
12	3.00	84.95	93.06
13	3.25	92.03	91.95
14	3.50	99.11	90.77
15	3.75	106.19	89.51
16	4.00	113.27	88.19
17	4.25	120.35	86.78
18	4.50	127.43	85.31
19	4.75	134.51	83.76
20	5.00	141.58	82.14

