

Graph 5

Methyl Iodide Retention Efficiency Vs. Flow Rate
 ASTM D 3803 Method A
 AGZ, Short, C;M;B Geometry, 50x80, November 2004

Quadratic Equation: $y = -0.1674x^2 - 0.0417x + 100.17$

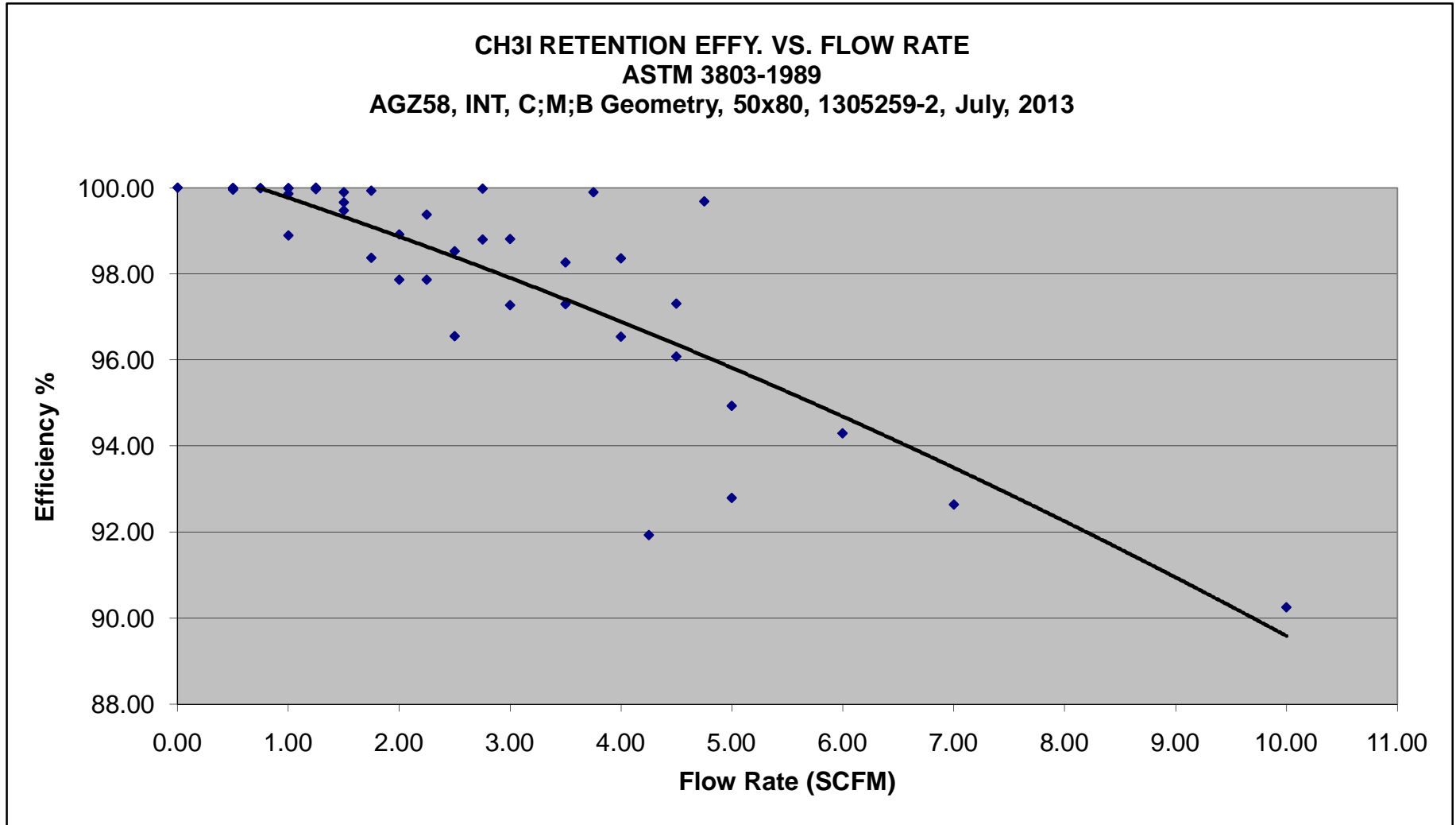
Standard Deviation: 0.218769

Table of Residuals

No.	X Obs.	Y Obs.	Y Calc.	Difference
1	0.50	99.99	100.11	-0.12
2	1.00	99.90	99.96	-0.06
3	1.50	99.94	99.73	0.21
4	2.00	99.43	99.42	0.01
5	2.50	99.04	99.02	0.02
6	3.00	98.81	98.54	0.27
7	3.50	97.85	97.97	-0.12
8	4.00	96.85	97.32	-0.47
9	4.50	96.59	96.59	0.00
10	5.00	96.01	95.78	0.23

Evaluation of Y

No.	X Given (CFM)	X Given(LPM)	Y Calculated
1	0.50	14.16	100.11
2	0.75	21.24	100.04
3	1.00	28.32	99.96
4	1.25	35.40	99.86
5	1.50	42.48	99.73
6	1.75	49.55	99.58
7	2.00	56.63	99.42
8	2.25	63.71	99.23
9	2.50	70.79	99.02
10	2.75	77.87	98.79
11	3.00	84.95	98.54
12	3.25	92.03	98.27
13	3.50	99.11	97.97
14	3.75	106.19	97.66
15	4.00	113.27	97.32
16	4.25	120.35	96.97
17	4.50	127.43	96.59
18	4.75	134.51	96.19
19	5.00	141.58	95.78



Methyl Iodide Retention Efficiency Vs. Flow Rate
ASTM D 3803-1989
AGZ58, INT, C;M;B Geometry, 50x80, 1305259-2, July, 2013

Quadratic Function: $Y = -0.028x^2 - 0.816x + 100.6$

Standard Deviation: 1.324508944

Table of Residuals

No.	X Obs (CFM)	Y Obs (%)	Y Calc (%)	Difference
1	0.00	100.00	100.60	-0.60
2	0.50	99.99	100.19	-0.20
3	0.50	99.96	100.19	-0.23
4	0.50	99.99	100.19	-0.20
5	0.50	99.99	100.19	-0.20
6	0.75	99.99	99.98	0.01
7	0.75	99.99	99.98	0.01
8	1.00	98.89	99.77	-0.88
9	1.00	99.86	99.77	0.09
10	1.00	99.99	99.77	0.22
11	1.00	99.99	99.77	0.22
12	1.25	99.97	99.55	0.42
13	1.25	100.00	99.55	0.45
14	1.50	99.90	99.33	0.57
15	1.50	99.66	99.33	0.33
16	1.50	99.47	99.33	0.14
17	1.75	99.93	99.10	0.83
18	1.75	98.37	99.10	-0.73
19	2.00	98.92	98.88	0.04
20	2.00	97.87	98.88	-1.01
21	2.25	99.38	98.64	0.74
22	2.25	97.87	98.64	-0.77
23	2.50	96.56	98.41	-1.85
24	2.50	98.53	98.41	0.12
25	2.75	99.98	98.17	1.81
26	2.75	98.80	98.17	0.63
27	3.00	98.81	97.93	0.88
28	3.00	97.28	97.93	-0.65
29	3.50	97.30	97.44	-0.14
30	3.50	98.27	97.44	0.83
31	3.75	99.90	97.18	2.72
32	4.00	96.54	96.93	-0.39
33	4.00	98.37	96.93	1.44
34	4.25	91.93	96.67	-4.74
35	4.50	96.08	96.41	-0.33
36	4.50	97.31	96.41	0.90
37	4.75	99.69	96.14	3.55

38	5.00	94.94	95.87	-0.93
39	5.00	92.79	95.87	-3.08
40	6.00	94.30	94.76	-0.46
41	7.00	92.64	93.59	-0.95
42	10.00	90.26	89.74	0.52

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Quadratic Function: $Y = -0.028x^2 - 0.816x + 100.6$

Standard Deviation: 1.324508944

Evaluation of Y's

No.	X Given (CFM)	X Given (LPM)	Y Calculated % Retention
1	0.25	7.08	100.39
2	0.50	14.15	100.19
3	0.75	21.23	99.97
4	1.00	28.30	99.76
5	1.25	35.38	99.54
6	1.50	42.45	99.31
7	1.75	49.53	99.09
8	2.00	56.60	98.86
9	2.25	63.68	98.62
10	2.50	70.75	98.39
11	2.75	77.83	98.14
12	3.00	84.90	97.90
13	3.25	91.98	97.65
14	3.50	99.05	97.40
15	3.75	106.13	97.15
16	4.00	113.20	96.89
17	4.25	120.28	96.63
18	4.50	127.35	96.36
19	4.75	134.43	96.09
20	5.00	141.50	95.82
21	5.25	148.58	95.54
22	5.50	155.65	95.27
23	5.75	162.73	94.98
24	6.00	169.80	94.70