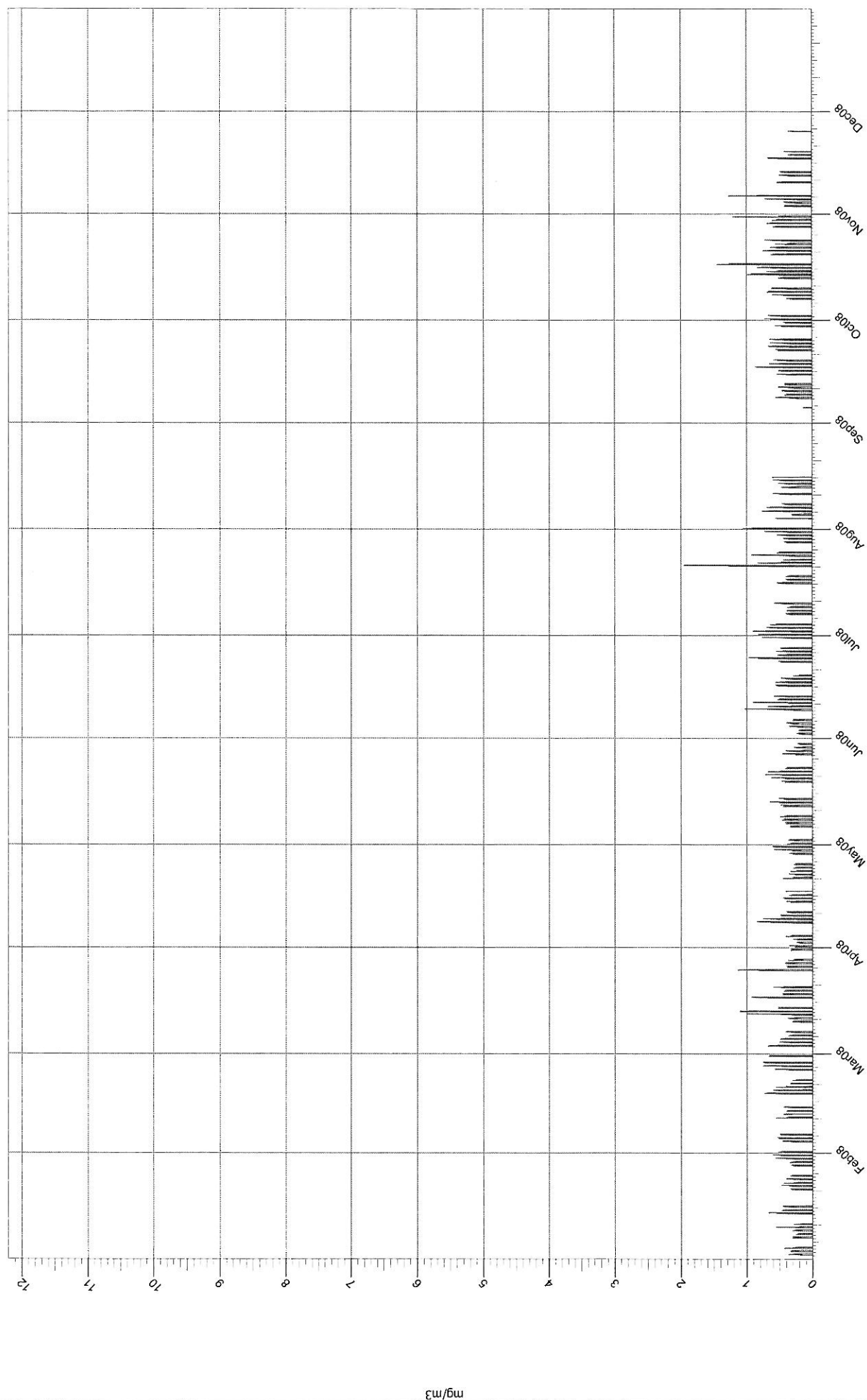


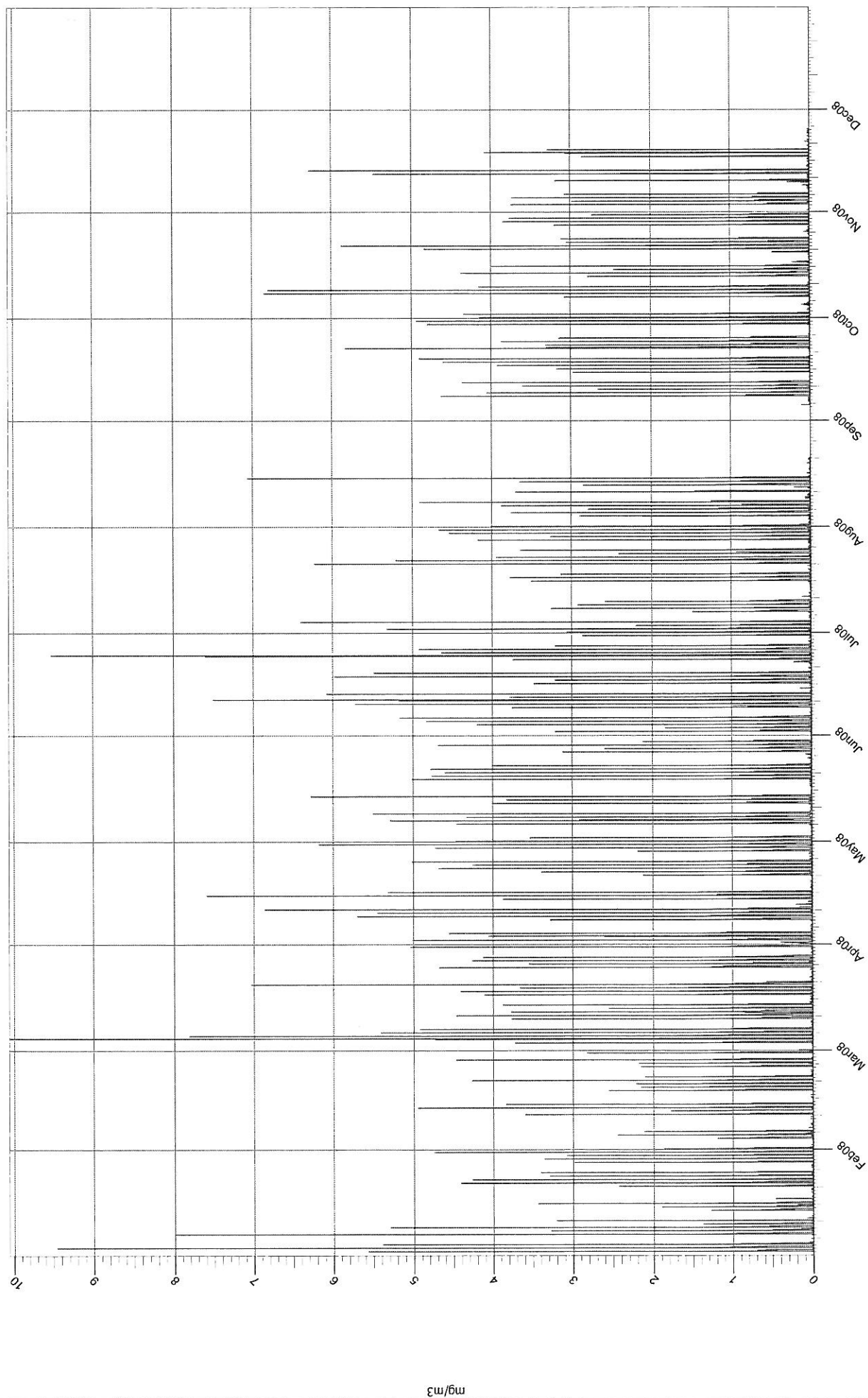
Emission Report

From: 01 Jan 08 00:01:00 To: 30 Dec 08 23:59:00
C:\Program Files\PCME\MainLog\ch01\data.drp Cal Factor: 0.36 (constant) Average: 0.074 Averaging Period: 10 mins Maximum: 1.960



Emission Report

Device 0 : --- CONV From: 01 Jan 08 00:01:00 To: 30 Dec 08 23:59:00 Average: 0.154 Averaging Period: 10 mins Maximum: 10.06 Cal Factor: 7.22 (constant)



Product	Pack	Amount (kg)
SL100A39L.-0167C1E	DRUM	150133
SL100A39LS TANKJ5E	TANKER	104560
SL100A39LS-0016F3E	POLY	640
SL100A39LS-0167C1E	DRUM	2112717
SL100A39LS-XXXXJ5E	IBC	38685
SL200A40LS-0016F3E	POLY	0
SL200A40LS-0166C1E	DRUM	53120
SL160-2HE -0016F3E	POLY	80
SL160-2HE -0160C1E	DRUM	485280
SL160-4E -0016F3E	POLY	0
SL160-4E -0160C1E	DRUM	223840
SL235-46 -0016F3E	POLY	0
SL235-46 -0170C1E	DRUM	217600
SL235-51 -0016F3E	POLY	0
SL235-51 -0170C1E	DRUM	25840
SL235-51 -TANKJ5E	TANKER	0
SL235D-42 -0170C1E	DRUM	0
SL235D-45L-0170C1E	DRUM	0
SL235D-46L-0016F3E	POLY	0
SL235D-46L-0170C1E	DRUM	29070
SL235D-46L-TANKJ5E	TANKER	219300
SL239G -0016F3E	POLY	0
SL239G -0190C1E	DRUM	51680
SL226MK -0190C1E	DRUM	0
SL9200BK -0176C1E	DRUM	12672
SL9291ES43-0016F3E	POLY	0
SL9291ES43-0176C1E	DRUM	94512
SO1E -0016F3E	POLY	208
SO1E -0134C1E	DRUM	8174
SO3 -0016F3E	POLY	0
SO3 -0160C1E	DRUM	7040

Product	Pack	Amount (kg)
SP1427-101-0000J5E	TANKER	0
SP1427-101-0019F3E	POLY	646
SP1427-101-0152C1E	DRUM	86032
SP1427-101-0750K5E	IBC	0
SP1427-105-0018F3E	POLY	0
SP1427-105-0160C1E	DRUM	10720
SP1427-109-0018F3E	POLY	0
SP1427-109-0154C1E	DRUM	924
SP1427-108-0155C1E	DRUM	14570
NF20/27TDF-0018F3E	POLY	2394
NF20/27TDF-0158C1E	DRUM	34918
NF20/27TDF-0162C1E	DRUM	0
DL16 -0018F3E	POLY	0
DL16 -0171C1E	DRUM	513
DL69 -0021F3E	POLY	12117
DL9 -0021F3E	POLY	1932
DL9 -0200C1E	DRUM	0
DLIPA -0018F3E	POLY	0
LF6/7 -0018F3E	POLY	162
NW25 -.175R2E	BOTTLE	790
NW25 -0020F3E	POLY	3380
NW25 -0180C1E	DRUM	1080
NW25 -1.75R2E	BOTTLE	1869
NW25 -6.70R9E	POLY	348
NW28 -.480R2E	BOTTLE	0
NW28 -1.88R2E	BOTTLE	113
NW28 -4.50R2E	POLY	2867
CS60 -0022F3E	POLY	3278
DE6H -0016A2E	PAIL	14176

Total	SLC	3819729
Total	Solvents	15422
Total	SP	98322
Total	NDF	37312
Total	DL	14562
Total	LF	162
Total	NW/CSF	13724
Total	DREM	14176
	Total	4013409

SLC & SOLV

3835151.0

Other

192828.3

Solvent Analysis

Solvent	Op. Bal.	Receipts	Cl. Bal.	Usage
ACET	10601	31960	7841	34720
IPA	4425	24658	2073	27010
NAPY	565	1320	303	1582
PENTO	1132	5304	370	6066
SOLEX	5096	105584	15358	95323
SQUO	30731	2237550	53509	2214772
SOX	1049	7431	4800	3680
TOTAL	53598	2413807	84253	2383152

Vent Measurements: 25th September 2008

Reading Seq.	Interval (secs)	Activity	Solvent Tank to Mixer	Mixer to Buk Tank	Homogenisation Tank to Tank
		Tanks	ST3 to LS	LS to BT4	BT2 to BT1
			ppm	Unit ppm	ppm
1	15		9.0	0.0	0.0
2	30		1.0	0.0	0.0
3	45		2.0	0.0	0.0
4	60		1.0	0.0	0.0
5	75		1.0	0.0	0.0
6	90		0.0	0.0	0.0
7	105		0.0	0.0	0.0
8	120		0.0	0.0	0.0
9	135		2.0	0.0	0.0
10	150		1.0	0.0	0.0
11	165		1.0	3.0	0.0
12	180		0.0	0.0	0.0
13	195		1.0	0.0	0.0
14	210		0.0	1.0	0.0
15	225		0.0	0.0	0.0
16	240		0.0	0.0	0.0
17	255		0.0	0.0	0.0
18	270		0.0	1.0	0.0
19	285		0.0	1.0	0.0
20	300		0.0	2.0	0.0
21	315		0.0	2.0	0.0
22	330		0.0	3.0	0.0
23	345		0.0	4.0	0.0
24	360		0.0	5.0	1.0
25	375		1.0	6.0	3.0
26	390		1.0	8.0	2.0
27	405		2.0	14.0	3.0
28	420		1.0	13.0	4.0
29	435		1.0	17.0	4.0
30	450		1.0	25.0	6.0
31	465		2.0	29.0	8.0
32	480		2.0	35.0	7.0
33	495		1.0	39.0	8.0
34	510		1.0	45.0	11.0
35	525		1.0	50.0	13.0
36	540		3.0	57.0	12.0
37	555		0.0	63.0	14.0
38	570		0.0	68.0	16.0
39	585		0.0	68.0	17.0
40	600		0.0	73.0	18.0
41	615		2.0	91.0	19.0
42	630		3.0	105.0	18.0
43	645		0.0	101.0	25.0
44	660		2.0	100.0	23.0
45	675		1.0	99.0	28.0
46	690		0.0	90.0	29.0
47	705		0.0	98.0	25.0
48	720		0.0	96.0	29.0
49	735		1.0	99.0	28.0
50	750		1.0	95.0	27.0
51	765		4.0	103.0	29.0
52	780		0.0	98.0	28.0
53	795		0.0	124.0	33.0
54	810		0.0	110.0	33.0
55	825		2.0	103.0	29.0
56	840		2.0	96.0	31.0
57	855		1.0	123.0	31.0
58	870		0.0	107.0	31.0
59	885		1.0	104.0	29.0
60	900		0.0	104.0	31.0
61	915		0.0	101.0	27.0

TOTAL	56.00	2779.00	730.00
Mean	0.93	46.32	12.17
Flow Rate (m3/sec)	1.0	1.0	1.0
Flow Volume (m3/min)	0.00	0.00	0.00

Foot Note:

Radius 0.1
Pie 3.142

Vent Measurements: 25th September 2008

Mass Emission is calculated from Ideal Gas Law

mass emission mg/min = ppm x flow rate x molecular weight x P /RT

$n = PV/RT$

V = measured flow rate (m3/min)	
P = 101325 Pa (760 mm Mercury)	101325
T = 293 K	293
R = molar gas constant 8.314 (m3Pa/mol K)	8.314
Molecular weight for solvent = 90	90
R x T	2436.002
P/RxT	41.595

		Solvent Tank to Mixer	Mixer to Buk Tank	Homogenisation Tank to Tank
		ST3 to LS	LS to BT4	BT2-BT1
Mean ppm	ppm	0.93	46.32	12.17
Flow Volume	m3/min	1.00	1.00	1.00
Emission rate	gm/min	0.00349	0.17339	0.04555
Emission Rate MR	kg/min	0.00000	0.00017	0.00005
Prebalanced Rate (PBR)	kg/min	0.04400	0.18000	0.15000
MR/PBR		0.00008	0.00096	0.00030
Efficiency 1-MR/PBR		0.99992	0.99904	0.99970
EFFICIENCY PERCENT	%	99.992	99.904	99.970