Pm2.5 Test
5-13-09

TABLE 2
ISOKINETIC SAMPLING SUMMARY
EPA Method 5/OTM 028
FPM/CPM

Client: **UGI**
Plant: **Hunlock Creek**
Location: **Stack**

		1-OTM-28	2-OTM-28	3-OTM28
Run Number:		5/13/09	5/13/09	5/13/09
Date:		42	42	42
Load (MW):		11:28	13:12	15:02
Run Time:	Start	12:42	14:30	16:22
	End	0.279	0.279	0.279
DN - Nozzle Diameter:		29.88	29.88	29.88
Pbar - Barometric Pressure:		60	60	60
TT - Sampling Time:		49.129	50.341	50.541
VM - Meter Volume:		81	78	79
TM - Avg. Meter Temp (F):		2.238	2.304	2.292
PM - Avg. Delta H (in. of H2O):		1.01	1.01	1.01
Y - Meter Calibration Factor:		48.567	50.097	50.205
VMSTD - Std. Gas Volume (SCF):		61.3	56.4	59.7
Vlc - Volume Water Collected:		5.6	5.0	5.3
%M - Percent Moisture:		0.06	0.05	0.05
Bws - Mole Fraction, Dry:		13.1	13.0	12.7
%CO2 - Carbon Dioxide, Dry:		7.0	7.1	7.0
%O2 - Oxygen, Dry:		30.38	30.36	30.31
MD - Dry Molecular Weight:		29.68	29.74	29.66
MS - Wet Molecular Weight:		70.90	70.90	70.90
A - Stack Area, SQ.FT:		29.86	29.86	29.86
PS - Static Press. (in. of Hg):		347	350	353
TS - Stack Temp. (F):		0.84	0.84	0.84
CP - Pitot Coefficient:		51.8	52.4	52.4
VS - Stack Gas Velocity (AFPS):		135,656	137,705	136,958
QS - Stack Gas Volume (DSCFM):		220,246	222,801	223,077
QA - Stack Gas Volume (ACFM):		99.7	101.3	102.1
%I - Isokinetic Ratio:				
Particulate Emissions - FPM				
Mg - Catch weight:		153.8	134.2	172.5
Gr/DSCF - Emission Concentration:		0.049	0.041	0.053
LBS/HR - Emission Rate:		56.80	48.77	62.22
LBS/MMBtu - Emission Rate:		0.095	0.081	0.103
		Average Gr/DSCF	0.048	
		Average LBS/HR	**55.93**	
		Average LBS/MMBtu	**0.093**	
Particulate Emissions - CPM				
Mg - Catch weight:		33.0	29.0	46.0
Gr/DSCF - Emission Concentration:		0.010	0.009	0.014
LBS/HR - Emission Rate:		12.19	10.54	16.59
LBS/MMBtu - Emission Rate:		0.020	0.018	0.028
		Average Gr/DSCF	1.12E-02	
		Average LBS/HR	**13.11**	
		Average LBS/MMBtu	**0.022**	
Particulate Emissions - Total				
Mg - Catch weight:		186.8	163.2	218.5
Gr/DSCF - Emission Concentration:		0.059	0.050	0.067
LBS/HR - Emission Rate:		68.99	59.31	78.81
LBS/MMBtu - Emission Rate:		0.116	0.099	0.131
		Average Gr/DSCF	5.89E-02	
		Average LBS/HR	**69.04**	
		Average LBS/MMBtu	**0.115**	

CATALYST AIR MANAGEMENT, INC.

EPA Method 5/028 Isokinetic Sample Sheet

Client: **UGI**
Unit Tested: **Hunlock Creek**
Sampling Location: Stack

Run No: **1-OTM-28** Date: 5/13/09 Start Time: 11:28 End Time: 12:42

DIAMETER OF NOZZLE:	0.279		DIAMETER OF STACK:	114	in
AREA OF NOZZLE:	4.246E-04	A_n	AREA OF STACK:	70.9	sq. ft.
BAROMETRIC PRESSURE:	29.88	P_{bar}	VOLUME OF MOISTURE:	61.3	V_{lc}
GAS METER Y-FACTOR:	1.01	Y	PITOT COEFFICIENT:	0.84	C_p

POINT	TIME	GAS METER	VEL HEAD	PM ORIFICE	METER TEMP. IN	METER TEMP. OUT	STACK TEMP.	CO2%	O2%	STATIC PRESS.	SDE	VEL
		31.703										
A-1	2.5	33.8	0.58	2.30	78	76	345				21.61	52.1
2	2.5	35.9	0.57	2.20	79	76	346	13.1	7.0	-0.30	21.43	51.7
3	2.5	37.9	0.56	2.20	80	77	346				21.25	51.2
4	2.5	40.0	0.59	2.30	82	77	345				21.79	52.6
5	2.5	42.0	0.58	2.30	83	78	346				21.62	52.2
6	2.5	43.969	0.56	2.20	84	78	346				21.25	51.2
		43.969										
B-1	2.5	45.9	0.57	2.20	84	79	346				21.43	51.7
2	2.5	48.0	0.58	2.30	84	79	346				21.62	52.2
3	2.5	50.1	0.59	2.30	85	80	347				21.82	52.6
4	2.5	52.2	0.60	2.40	85	80	347				22.00	53.1
5	2.5	54.1	0.59	2.30	86	80	347				21.82	52.6
6	2.5	56.164	0.56	2.20	87	81	346				21.25	51.2
		56.164										
C-1	2.5	58.0	0.54	2.10	84	81	347				20.88	50.4
2	2.5	60.0	0.57	2.20	84	81	350				21.49	51.8
3	2.5	62.0	0.57	2.20	84	81	348				21.46	51.8
4	2.5	64.2	0.60	2.40	84	81	349				22.03	53.1
5	2.5	66.2	0.52	2.00	85	81	350				20.52	49.5
6	2.5	68.211	0.48	1.90	85	81	349				19.71	47.5
		68.211										
D-1	2.5	70.3	0.56	2.20	83	80	349				21.28	51.3
2	2.5	72.4	0.59	2.30	83	81	349				21.85	52.7
3	2.5	74.5	0.60	2.40	83	80	349				22.03	53.1
4	2.5	76.6	0.59	2.30	84	80	348				21.83	52.7
5	2.5	78.8	0.58	2.30	84	80	349				21.66	52.3
6	2.5	80.832	0.57	2.20	83	80	349				21.47	51.8
RESULTS	TT	VM	SQRT PIT	PM		TM	TS	CO2	O2	STATIC	SDE	VEL
	60.0	49.129	0.755	2.238		81	347	13.1	7.0	-0.30	21.46	51.8
	net	net	avg	avg		avg	avg	avg	avg	avg	avg	ft/sec

P_s =	29.86	$V_{m(std)}$ =	48.567	$V_{w(std)}$ =	2.887	%M=	5.61
B_{ws} =	0.056	M_d =	30.38	M_s =	29.68		

STACK GAS VELOCITY =	51.8	AFPS	V_s
STACK GAS VELOCITY =	3,106	AFPM	
STACK GAS VOLUME =	135,656	DSCFM	Q_{std}
STACK GAS VOLUME =	220,246	ACFM	Q_a
ISOKINETIC RATIO =	99.7	%	

EMISSIONS

	FPM	CPM	Total
Weight, mg =	153.8	33.0	186.8
GR/DSCF =	4.89E-02	1.05E-02	0.059
LBS/HR =	**56.80**	**12.19**	**68.99**
LBS/MMBTU =	**0.095**	**0.020**	**0.116**

CATALYST AIR MANAGEMENT, INC.

EPA Method 5/028 Isokinetic Sample Sheet

Client: **UGI**
Unit Tested: **Hunlock Creek**
Sampling Location: Stack

Run No: **2-OTM-28** Date: 5/13/09 Start Time: 13:12 End Time: 14:30

DIAMETER OF NOZZLE:	0.279		DIAMETER OF STACK:	114	in
AREA OF NOZZLE:	4.246E-04	A_n	AREA OF STACK:	70.9	sq. ft.
BAROMETRIC PRESSURE:	29.88	P_{bar}	VOLUME OF MOISTURE:	56.4	V_{lc}
GAS METER Y-FACTOR:	1.01	Y	PITOT COEFFICIENT:	0.84	C_p

POINT	TIME	GAS METER	VEL HEAD	PM ORIFICE	METER TEMP. IN	METER TEMP. OUT	STACK TEMP.	CO2%	O2%	STATIC PRESS.	SDE	VEL
		81.110										
D-1	2.5	83.3	0.59	2.30	77	77	349				21.85	52.6
2	2.5	85.4	0.60	2.40	77	77	350	13.0	7.1	-0.30	22.05	53.1
3	2.5	87.5	0.58	2.30	78	77	349				21.66	52.2
4	2.5	89.7	0.60	2.40	79	77	350				22.05	53.1
5	2.5	91.8	0.61	2.40	80	77	350				22.23	53.6
6	2.5	93.823	0.56	2.20	81	77	350				21.30	51.3
		93.823										
C-1	2.5	95.9	0.57	2.20	80	77	350				21.49	51.8
2	2.5	97.8	0.59	2.30	81	78	350				21.86	52.7
3	2.5	99.9	0.61	2.40	80	77	350				22.23	53.6
4	2.5	102.1	0.60	2.40	80	77	350				22.05	53.1
5	2.5	104.2	0.60	2.40	80	77	350				22.05	53.1
6	2.5	106.151	0.53	2.10	80	77	350				20.72	49.9
		107.223										
B-1	2.5	109.3	0.56	2.20	76	75	349				21.28	51.3
2	2.5	111.4	0.58	2.30	77	76	349				21.66	52.2
3	2.5	113.5	0.60	2.40	78	76	349				22.03	53.1
4	2.5	115.7	0.61	2.40	80	76	349				22.21	53.5
5	2.5	117.8	0.60	2.40	80	76	349				22.03	53.1
6	2.5	119.921	0.55	2.20	80	76	349				21.09	50.8
		119.921										
A-1	2.5	121.9	0.53	2.10	77	76	350				20.72	49.9
2	2.5	124.0	0.58	2.30	78	76	350				21.67	52.2
3	2.5	126.2	0.62	2.40	79	77	350				22.41	54.0
4	2.5	128.3	0.61	2.40	80	77	349				22.21	53.5
5	2.5	130.4	0.59	2.30	81	78	349				21.85	52.6
6	2.5	132.523	0.54	2.10	82	78	350				20.91	50.4
RESULTS	TT	VM	SQRT PIT	PM		TM	TS	CO2	O2	STATIC	SDE	VEL
	60.0	50.341	0.764	2.304		78	350	13.0	7.1	-0.30	21.73	52.4
	net	net	avg	avg		avg	avg	avg	avg	avg	avg	ft/sec

P_s =	29.86	$V_{m(std)}$ =	50.097	$V_{w(std)}$ =	2.656	%M=	5.04	
B_{ws} =	0.050	M_d =	30.36	M_s =	29.74			

STACK GAS VELOCITY =	52.4	AFPS	V_s
STACK GAS VELOCITY =	3,142	AFPM	
STACK GAS VOLUME =	137,705	DSCFM	Q_{std}
STACK GAS VOLUME =	222,801	ACFM	Q_a
ISOKINETIC RATIO =	101.3	%	

EMISSIONS

	FPM	CPM	Total
Weight, mg =	134.2	29.0	163.2
GR/DSCF =	4.13E-02	8.93E-03	0.050
LBS/HR =	**48.77**	**10.54**	**59.31**
LBS/MMBTU =	**0.081**	**0.018**	**0.099**

CATALYST AIR MANAGEMENT, INC.

EPA Method 5/028 Isokinetic Sample Sheet

Client: **UGI**
Unit Tested: **Hunlock Creek**
Sampling Location: Stack

Run No: **3-OTM28** Date: 5/13/09 Start Time: 15:02 End Time: 16:22

DIAMETER OF NOZZLE:	0.279		DIAMETER OF STACK:	114	in
AREA OF NOZZLE:	4.246E-04	A_n	AREA OF STACK:	70.9	sq. ft.
BAROMETRIC PRESSURE:	29.88	P_{bar}	VOLUME OF MOISTURE:	59.7	V_{lc}
GAS METER Y-FACTOR:	1.01	Y	PITOT COEFFICIENT:	0.84	C_p

POINT	TIME	GAS METER	VEL HEAD	PM ORIFICE	METER TEMP. IN	METER TEMP. OUT	STACK TEMP.	CO2%	O2%	STATIC PRESS.	SDE	VEL
		133.121										
A-2	2.5	135.2	0.58	2.30	78	77	352	12.70	7.00	-0.30	21.70	52.4
2	2.5	137.4	0.60	2.40	79	77	351				22.06	53.2
3	2.5	139.5	0.59	2.30	79	78	353				21.90	52.9
4	2.5	141.7	0.59	2.30	80	78	352				21.89	52.8
5	2.5	143.8	0.56	2.20	81	79	352				21.32	51.5
6	2.5	145.828	0.54	2.10	82	79	351				20.93	50.5
		145.828										
B-1	2.5	147.8	0.55	2.20	78	77	352				21.13	51.0
2	2.5	149.8	0.58	2.30	79	77	353				21.71	52.4
3	2.5	151.9	0.60	2.40	80	77	352				22.07	53.3
4	2.5	154.2	0.59	2.30	80	77	353				21.90	52.9
5	2.5	156.2	0.61	2.40	81	78	353				22.27	53.7
6	2.5	158.435	0.53	2.10	82	78	351				20.73	50.0
		158.815										
C-1	2.5	160.9	0.58	2.30	77	76	352				21.70	52.4
2	2.5	162.9	0.61	2.40	78	76	353				22.27	53.7
3	2.5	165.1	0.60	2.40	79	76	353				22.09	53.3
4	2.5	167.2	0.59	2.30	80	77	357				21.96	53.0
5	2.5	169.3	0.58	2.30	81	77	353				21.71	52.4
6	2.5	171.341	0.55	2.20	82	77	353				21.15	51.0
		171.341										
D-1	2.5	173.3	0.57	2.20	80	78	353				21.53	51.9
2	2.5	175.5	0.60	2.40	81	78	353				22.09	53.3
3	2.5	177.6	0.59	2.30	82	78	354				21.91	52.9
4	2.5	179.7	0.59	2.30	82	78	353				21.90	52.9
5	2.5	181.9	0.61	2.40	83	79	353				22.27	53.7
6	2.5	184.042	0.56	2.20	84	79	353				21.34	51.5
RESULTS	TT	VM	SQRT PIT	PM		TM	TS	CO2	O2	STATIC	SDE	VEL
	60.0	50.541	0.762	2.292		79	353	12.7	7.0	-0.30	21.73	52.4
	net	net	avg	avg		avg	avg	avg	avg	avg	avg	ft/sec

P_s =	29.86	$V_{m(std)}$ =	50.205	$V_{w(std)}$ =	2.812	%M=	5.30
B_{ws} =	0.053	M_d =	30.31	M_s =	29.66		

STACK GAS VELOCITY =	52.4	AFPS	V_s
STACK GAS VELOCITY =	3,146	AFPM	
STACK GAS VOLUME =	136,958	DSCFM	Q_{std}
STACK GAS VOLUME =	223,077	ACFM	Q_a
ISOKINETIC RATIO =	102.1	%	

EMISSIONS

	FPM	CPM	Total
Weight, mg =	172.5	46.0	218.5
GR/DSCF =	5.30E-02	1.41E-02	0.067
LBS/HR =	**62.22**	**16.59**	**78.81**
LBS/MMBTU =	**0.103**	**0.028**	**0.131**

Client: **UGI**
Plant: **Hunlock Creek**
Location: **Stack**

Run Number:			**1-OTM-28**	**2-OTM-28**	**3-OTM28**
Date:			5/13/09	5/13/09	5/13/09
	Coil	Tare mg.	227.3	224.9	228.5
		Final mg.	228	225.3	228.9
		Total mg.	**0.7**	**0.4**	**0.4**
	Imp 1	Tare mg.	346.8	380.4	348.3
	dry	Final mg.	363.5	396.4	364.9
		Total mg.	**16.7**	**16**	**16.6**
	Imp 2	Tare mg.	635.1	644.5	635.8
	dry	Final mg.	639.5	648.6	639.5
		Total mg.	**4.4**	**4.1**	**3.7**
	Imp 3	Tare mg.	808.7	705.9	737.9
	100ml	Final mg.	829.8	725.1	757.5
		Total mg.	**21.1**	**19.2**	**19.6**
	Gel	Tare mg.	790.5	861.1	808.7
		Final mg.	808.9	877.8	828.1
		Total mg.	**18.4**	**16.7**	**19.4**
		Total mg.	**61.3**	**56.4**	**59.7**

Catalyst Air Management, Inc.

Client: **UGI**
Unit Tested: **Hunlock Creek**
Sampling Location: Stack

ACETONE BLANK	VOLUME ml		BEAKER WEIGHT, g
	200	INITIAL	108.5102
		FINAL	108.5104
		INI g	0.0002

ACETONE INFO:
LOT NUMBER = 082673
DENSITY = 0.7853 g/ml

ACETONE BLANK = 1.27E-06 g/g

PARTICULATE WEIGHT

SAMPLE ID	ACETONE VOLUME ml		**ACETONE BEAKER WEIGHT, g**	FINAL-INI g		**FILTER WEIGHT, g**	FILTER FINAL	ACETONE PLUS FILTER g	MAXIMUM WASH BLANK g	TOTAL ALLOWABLE BLANK g	TOTAL g	mg
Run 1	215	INITIAL	108.1586		INITIAL	0.8751						
		FINAL	108.1919	**0.0333**	FINAL	0.9958	**0.1207**	0.1540	0.0002	0.0017	0.1538	153.8
Run 2	225	INITIAL	109.7166		INITIAL	0.8724						
		FINAL	109.7489	**0.0323**	FINAL	0.9745	**0.1021**	0.1344	0.0002	0.0018	0.1342	134.2
Run 3	230	INITIAL	106.7680		INITIAL	0.8641						
		FINAL	106.8225	**0.0545**	FINAL	0.9823	**0.1182**	0.1727	0.0002	0.0018	0.1725	172.5

CATALYST AIR MANAGEMENT Inc.
CALIBRATION DATA

CLIENT: UGI
PLANT: Hunlock Creek
UNIT: 6
TEST: 3A
LOCATION: Stack

RUN #: 1-3
LOAD LEVEL: High
DATE: 5/13/2009

GAS UNITS	ANALYZER SCALE	CYLINDER VALUE	ANALYZER VALUE	DIFF PPM	% SPAN	Pass Yes\No
O2, %		0.00	0.07	0.07	0.34	**YES**
O2, %	**25**	11.63	11.59	0.04	0.19	**YES**
O2, %		20.55	20.56	0.01	0.05	**YES**
CO2, %		0.00	0.02	0.02	0.12	**YES**
CO2, %	**20**	10.15	10.12	0.03	0.18	**YES**
CO2, %		17.04	17.03	0.01	0.06	**YES**

RUN 1
SYSTEM CALIBRATION BIAS AND DRIFT DATA

GAS UNITS	ANALYZER VALUE	PRE-TEST CHECK	% SPAN	Pass YES\NO	POST-TEST CHECK	% SPAN	% DRIFT	Pass YES\NO
O2, %	0.07	0.07	0.00	**YES**	0.07	0.00	0.00	**YES**
O2, %	11.59	11.65	0.29	**YES**	11.63	0.19	0.10	**YES**
CO2, %	0.02	0.11	0.53	**YES**	0.13	0.65	0.12	**YES**
CO2, %	10.12	10.17	0.29	**YES**	10.19	0.41	0.12	**YES**

UNCORRECTED ANALYZER VALUES

	DRY
O2, %	7.03
CO2, %	13.12

ANALYZER VALUES CORRECTED FOR DRIFT

	DRY
O2, %	7.0
CO2, %	13.1

RUN 2
SYSTEM CALIBRATION BIAS AND DRIFT DATA

GAS UNITS	ANALYZER VALUE	PRE-TEST CHECK	% SPAN	Pass YES\NO	POST-TEST CHECK	% SPAN	% DRIFT	Pass YES\NO
O2, %	0.07	0.07	0.00	**YES**	0.10	0.15	0.15	**YES**
O2, %	11.59	11.63	0.19	**YES**	11.65	0.29	0.10	**YES**
CO2, %	0.02	0.13	0.65	**YES**	0.14	0.70	0.06	**YES**
CO2, %	10.12	10.19	0.41	**YES**	10.21	0.53	0.12	**YES**

UNCORRECTED ANALYZER VALUES

	DRY
O2, %	7.15
CO2, %	13.06

ANALYZER VALUES CORRECTED FOR DRIFT

	DRY
O2, %	7.1
CO2, %	13.0

RUN 3
SYSTEM CALIBRATION BIAS AND DRIFT DATA

GAS UNITS	ANALYZER VALUE	PRE-TEST CHECK	% SPAN	Pass YES\NO	POST-TEST CHECK	% SPAN	% DRIFT	Pass YES\NO
O2, %	0.07	0.10	0.15	**YES**	0.11	0.19	0.05	**YES**
O2, %	11.59	11.65	0.29	**YES**	11.65	0.29	0.00	**YES**
CO2, %	0.02	0.14	0.70	**YES**	0.15	0.76	0.06	**YES**
CO2, %	10.12	10.21	0.53	**YES**	10.25	0.76	0.23	**YES**

UNCORRECTED ANALYZER VALUES

	DRY
O2, %	7.09
CO2, %	12.78

ANALYZER VALUES CORRECTED FOR DRIFT

	DRY
O2, %	7.0
CO2, %	12.7

CATALYST AIR MANAGEMENT Inc.
O2/CO2 DATA

Run 1

DATE	TIME	O2	CO2
5/13/09	11:28	7.3	12.72
5/13/09	11:29	7.87	12.23
5/13/09	11:30	7.52	12.5
5/13/09	11:31	7.94	12.16
5/13/09	11:32	7.66	12.42
5/13/09	11:33	7.31	12.8
5/13/09	11:34	6.75	13.35
5/13/09	11:35	6.97	13.31
5/13/09	11:36	7.05	13.43
5/13/09	11:37	7.21	13.28
5/13/09	11:38	6.9	13.46
5/13/09	11:39	6.79	13.53
5/13/09	11:40	7.09	13.11
5/13/09	11:41	7.12	13.04
5/13/09	11:42	7.06	13.14
5/13/09	11:43	6.9	13.35
5/13/09	11:44	6.59	13.43
5/13/09	11:45	6.95	13.1
5/13/09	11:46	7.03	13.02
5/13/09	11:47	6.94	13.19
5/13/09	11:48	6.71	13.45
5/13/09	11:49	7.11	13.25
5/13/09	11:50	6.68	13.62
5/13/09	11:51	7.22	13.16
5/13/09	11:52	7.14	13.14
5/13/09	11:53	7.14	13.1
5/13/09	11:54	7.01	13.28
5/13/09	11:55	6.94	13.41
5/13/09	11:56	6.61	13.72
5/13/09	11:57	6.87	13.49
5/13/09	11:58	7.11	13.19
5/13/09	11:59	6.93	13.31
5/13/09	12:00	6.64	13.54
5/13/09	12:01	6.67	13.38
5/13/09	12:02	7.38	12.7
5/13/09	12:03	7.17	12.85
5/13/09	12:04	6.72	13.23
5/13/09	12:05	7.11	12.84
5/13/09	12:06	7.11	12.74
5/13/09	12:07	6.31	12.86
5/13/09	12:08	7.52	12.37
5/13/09	12:09	7.1	12.77
5/13/09	12:10	7.28	12.61
5/13/09	12:11	6.86	12.91
5/13/09	12:12	7.18	12.72
5/13/09	12:13	6.72	13.16
5/13/09	12:14	7.14	12.81
5/13/09	12:15	6.8	13.16
5/13/09	12:16	7.13	12.94
5/13/09	12:17	6.83	13.43
5/13/09	12:18	7.27	13.26
5/13/09	12:19	6.77	13.63
5/13/09	12:20	7.33	12.96
5/13/09	12:21	6.94	13.28
5/13/09	12:22	6.49	13.63
5/13/09	12:23	7.14	13.1
5/13/09	12:24	6.91	13.27
5/13/09	12:25	7.18	13.06
5/13/09	12:26	7	13.21
5/13/09	12:27	7.1	13.14
5/13/09	12:28	6.88	13.33
5/13/09	12:29	7.09	13.16
5/13/09	12:30	6.74	13.47
5/13/09	12:31	7.12	13.1
5/13/09	12:32	6.54	13.59
5/13/09	12:33	7.28	12.96
5/13/09	12:34	6.9	13.31
5/13/09	12:35	7.21	13
5/13/09	12:36	6.9	13.27
5/13/09	12:37	7.23	12.94
5/13/09	12:38	7.11	13
5/13/09	12:39	6.54	13.48
5/13/09	12:40	6.96	13.13
5/13/09	12:41	7.27	12.86
5/13/09	12:42	7.19	12.94
		7.03	13.12

Run 2

DATE	TIME	O2	CO2
5/13/09	13:12	7.05	13.16
5/13/09	13:13	7.05	13.11
5/13/09	13:14	7.19	12.98
5/13/09	13:15	6.81	13.34
5/13/09	13:16	7.08	13.09
5/13/09	13:17	6.72	13.41
5/13/09	13:18	7.15	13.04
5/13/09	13:19	7.03	13.14
5/13/09	13:20	7.13	13.05
5/13/09	13:21	6.81	13.32
5/13/09	13:22	7.25	12.92
5/13/09	13:23	6.97	13.15
5/13/09	13:24	7.12	13.03
5/13/09	13:25	7.06	13.1
5/13/09	13:26	7.04	13.09
5/13/09	13:27	6.92	13.24
5/13/09	13:28	6.46	13.37
5/13/09	13:29	7.34	12.75
5/13/09	13:30	7.18	12.92
5/13/09	13:31	7.65	12.52
5/13/09	13:32	6.73	13.36
5/13/09	13:33	7.01	13.14
5/13/09	13:34	7.08	13.09
5/13/09	13:35	7.52	12.73
5/13/09	13:36	7.13	13.09
5/13/09	13:37	7.27	13
5/13/09	13:38	7.17	13.11
5/13/09	13:39	7.32	13
5/13/09	13:40	7.17	13.14
5/13/09	13:41	7.17	13.17
5/13/09	13:42	7.32	13.03
5/13/09	13:43	7.4	12.94
5/13/09	13:44	7.17	13.21
5/13/09	13:45	7.03	13.25
5/13/09	13:46	7.07	13.27
5/13/09	13:47	7.43	12.94
5/13/09	13:48	7.11	13.21
5/13/09	13:49	7.4	12.93
5/13/09	13:50	7.34	12.97
5/13/09	13:51	7.01	13.3
5/13/09	13:52	7.29	13.08
5/13/09	13:53	7.25	13.06
5/13/09	13:54	6.96	13.38
5/13/09	13:55	7.32	13.07
5/13/09	13:56	7.29	13.09
5/13/09	13:57	7.05	13.35
5/13/09	13:58	6.94	13.34
5/13/09	13:59	6.78	13.54
5/13/09	14:00	7.38	13
5/13/09	14:01	7.32	13
5/13/09	14:02	7.24	13.02
5/13/09	14:03	7.55	12.76
5/13/09	14:04	7.06	13.26
5/13/09	14:05	7.35	12.99
5/13/09	14:06	7.49	12.93
5/13/09	14:07	7.18	13.22
5/13/09	14:08	7.33	13.04
5/13/09	14:09	7.5	12.85
5/13/09	14:10	6.94	13.23
5/13/09	14:11	6.71	13.31
5/13/09	14:12	7.47	12.87
5/13/09	14:13	7.61	12.81
5/13/09	14:14	7.51	12.93
5/13/09	14:15	7.43	12.98
5/13/09	14:16	7.33	12.99
5/13/09	14:17	7.26	13.1
5/13/09	14:18	7.43	12.84
5/13/09	14:19	7.2	13.01
5/13/09	14:20	6.89	13.23
5/13/09	14:21	7.25	12.74
5/13/09	14:22	6.94	13.01
5/13/09	14:23	6.76	13.11
5/13/09	14:24	7.13	12.77
5/13/09	14:25	7.09	12.79
5/13/09	14:26	6.77	13.08
5/13/09	14:27	6.93	12.95
5/13/09	14:28	6.78	13.03
5/13/09	14:29	6.8	13.05
5/13/09	14:30	7.35	12.54
		7.15	13.06

Run 3

DATE	TIME	O2	CO2
5/13/09	15:02	6.98	12.74
5/13/09	15:03	6.81	12.89
5/13/09	15:04	7.26	12.48
5/13/09	15:05	7.12	12.62
5/13/09	15:06	7.02	12.84
5/13/09	15:07	7.24	12.79
5/13/09	15:08	7.07	13
5/13/09	15:09	6.81	13.11
5/13/09	15:10	7.37	12.78
5/13/09	15:11	7.2	13.06
5/13/09	15:12	6.93	12.86
5/13/09	15:13	7.25	12.53
5/13/09	15:14	7.04	12.73
5/13/09	15:15	6.54	13.17
5/13/09	15:16	7.42	12.45
5/13/09	15:17	7.01	12.86
5/13/09	15:18	7.59	12.42
5/13/09	15:19	7.2	12.73
5/13/09	15:20	7.08	12.83
5/13/09	15:21	6.66	13.2
5/13/09	15:22	7.29	12.65
5/13/09	15:23	7.33	12.63
5/13/09	15:24	7.17	12.77
5/13/09	15:25	7.18	12.75
5/13/09	15:26	7.01	12.89
5/13/09	15:27	6.74	13.14
5/13/09	15:28	7.17	12.76
5/13/09	15:29	7.48	12.43
5/13/09	15:30	7.21	12.71
5/13/09	15:31	7.08	12.83
5/13/09	15:32	6.99	12.92
5/13/09	15:33	7.03	12.84
5/13/09	15:34	6.87	12.98
5/13/09	15:35	7.05	12.82
5/13/09	15:36	6.56	13.24
5/13/09	15:37	6.94	12.94
5/13/09	15:38	7.3	12.58
5/13/09	15:39	7.19	12.68
5/13/09	15:40	7.22	12.65
5/13/09	15:41	7.28	12.61
5/13/09	15:42	7.07	12.79
5/13/09	15:43	7.23	12.66
5/13/09	15:44	6.96	12.87
5/13/09	15:45	6.64	13.17
5/13/09	15:46	7.24	12.62
5/13/09	15:47	7.29	12.55
5/13/09	15:48	7.13	12.72
5/13/09	15:49	7.3	12.55
5/13/09	15:50	7.15	12.69
5/13/09	15:51	6.96	12.86
5/13/09	15:52	6.86	12.96
5/13/09	15:53	7.2	12.64
5/13/09	15:54	7.27	12.58
5/13/09	15:55	7.09	12.75
5/13/09	15:56	7.03	12.82
5/13/09	15:57	7.18	12.67
5/13/09	15:58	7.1	12.74
5/13/09	15:59	6.71	13.08
5/13/09	16:00	6.65	13.14
5/13/09	16:01	7.23	12.62
5/13/09	16:02	7.24	12.61
5/13/09	16:03	7.21	12.65
5/13/09	16:04	7.29	12.57
5/13/09	16:05	7.25	12.6
5/13/09	16:06	7.11	12.73
5/13/09	16:07	6.94	12.91
5/13/09	16:08	7.04	12.81
5/13/09	16:09	7.21	12.65
5/13/09	16:10	7.23	12.63
5/13/09	16:11	6.79	13.02
5/13/09	16:12	6.65	13.16
5/13/09	16:13	7.14	12.73
5/13/09	16:14	7.19	12.67
5/13/09	16:15	7.19	12.68
5/13/09	16:16	7.18	12.69
5/13/09	16:17	7.19	12.68
5/13/09	16:18	6.98	12.86
5/13/09	16:19	7.18	12.69
5/13/09	16:20	6.9	12.92
5/13/09	16:21	6.84	13.01
5/13/09	16:22	7.27	12.61
		7.09	12.78