

APPENDIX A
MODIFIED CARB METHOD 430 DATA

TABLE A-1
 DRYER 4 - ALDEHYDES AND KETONES EMISSIONS TEST SUMMARY
 Modified CARB Method 430
 Omya - Florence, Vermont - May 3-4, 2006

Operating Condition Date Time Test Number	No Product				Normal Operation			
	5/3/2006 1440-1540 D4-1	5/3/2006 1753-1853 D4-2	5/3/2006 1903-2003 D4-3	Average	5/4/2006 1232-1332 D4-4	5/4/2006 1337-1437 D4-5	5/4/2006 1539-1639 D4-6	Average
Emission Concentration (ug/liter)								
Formaldehyde	<0.31	<0.46	<0.38	<0.38	14.90	4.84	6.77	8.84
Acetaldehyde	<0.19	<0.25	<0.23	<0.22	11.17	3.59	5.01	6.59
Acetone	<1.34	<1.44	<1.91	<1.56	<2.20	<1.34	<1.55	<1.70
Acrolein	<0.04	<0.07	<0.03	<0.05	3.51	1.47	1.55	2.18
Propionaldehyde	<0.04	<0.04	<0.03	<0.04	5.35	1.55	2.18	3.03
Crotonaldehyde	<0.04	<0.04	<0.10	<0.06	1.99	0.88	1.11	1.32
Butyraldehyde	<0.04	<0.04	<0.03	<0.04	5.24	0.76	1.11	2.37
Benzaldehyde	<0.36	<0.48	<0.32	<0.39	<1.27	<0.81	<1.09	<1.05
Isovaleraldehyde	<0.04	<0.08	<0.03	<0.05	2.67	1.11	1.27	1.68
Valeraldehyde	<0.04	<0.04	<0.03	<0.04	5.97	1.64	2.22	3.28
o-Tolualdehyde	<0.04	<0.04	<0.03	<0.04	0.58	0.04	0.24	0.29
m & p-Tolualdehyde	<0.04	<0.04	<0.03	<0.04	2.07	0.46	0.79	1.11
Hexaldehyde	<0.04	<0.04	<0.03	<0.04	4.66	1.20	1.79	2.55
2,5-Dimethylbenzaldehyde	<0.04	<0.04	<0.03	<0.04	0.72	<0.04	<0.04	<0.26
Emission Concentration (ppm)								
Formaldehyde	<0.25	<0.37	<0.30	<0.31	11.94	3.88	5.42	7.08
Acetaldehyde	<0.10	<0.13	<0.12	<0.12	5.97	1.92	2.68	3.52
Acetone	<0.56	<0.60	<0.79	<0.65	<0.91	<0.56	<0.64	<0.70
Acrolein	<0.02	<0.03	<0.01	<0.02	1.51	0.63	0.67	0.93
Propionaldehyde	<0.02	<0.01	<0.01	<0.01	2.22	0.64	0.91	1.26
Crotonaldehyde	<0.01	<0.01	<0.03	<0.02	0.68	0.30	0.38	0.46
Butyraldehyde	<0.01	<0.01	<0.01	<0.01	1.75	0.25	0.37	0.79
Benzaldehyde	<0.08	<0.11	<0.07	<0.09	<0.29	<0.18	<0.25	<0.24
Isovaleraldehyde	<0.01	<0.02	<0.01	<0.01	0.75	0.31	0.36	0.47
Valeraldehyde	<0.01	<0.01	<0.01	<0.01	1.67	0.46	0.62	0.92
o-Tolualdehyde	<0.01	<0.01	<0.01	<0.01	0.12	0.01	0.05	0.06
m & p-Tolualdehyde	<0.01	<0.01	<0.01	<0.01	0.42	0.09	0.16	0.22
Hexaldehyde	<0.01	<0.01	<0.01	<0.01	1.12	0.29	0.43	0.61
2,5-Dimethylbenzaldehyde	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	<0.05
Mass Emission Rate (lb/hour)								
Formaldehyde	<0.011	<0.016	<0.013	<0.013	0.54	0.18	0.25	0.32
Acetaldehyde	<0.007	<0.008	<0.008	<0.008	0.41	0.13	0.18	0.24
Acetone	<0.046	<0.049	<0.065	<0.053	<0.08	<0.05	<0.06	<0.06
Acrolein	<0.001	<0.002	<0.001	<0.002	0.13	0.05	0.06	0.08
Propionaldehyde	<0.001	<0.001	<0.001	<0.001	0.20	0.06	0.08	0.11
Crotonaldehyde	<0.001	<0.001	<0.003	<0.002	0.07	0.03	0.04	0.05
Butyraldehyde	<0.001	<0.001	<0.001	<0.001	0.19	0.03	0.04	0.09
Benzaldehyde	<0.012	<0.017	<0.011	<0.013	<0.05	<0.03	<0.04	<0.04
Isovaleraldehyde	<0.001	<0.003	<0.001	<0.002	0.10	0.04	0.05	0.06
Valeraldehyde	<0.001	<0.001	<0.001	<0.001	0.22	0.06	0.08	0.12
o-Tolualdehyde	<0.001	<0.001	<0.001	<0.001	0.02	0.00	0.01	0.01
m & p-Tolualdehyde	<0.001	<0.001	<0.001	<0.001	0.08	0.02	0.03	0.04
Hexaldehyde	<0.001	<0.001	<0.001	<0.001	0.17	0.04	0.07	0.09
2,5-Dimethylbenzaldehyde	<0.001	<0.001	<0.001	<0.001	0.03	<0.00	<0.00	<0.01

NOTES:

- Stack temperature, flow rate, and moisture are the daily averages from the Method 0010 test runs.
- dscfm = dry standard cubic feet per minute at 68°F and 29.92 in. Hg.
- Acetone and benzaldehyde were detected in the blank at similar levels found in the samples, so results are reported as less than values.