

Appendix C

CE-CERT Office 10/27/98

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1000	33	17	2	23	44
1010	5	4	1	23	45
1020	6	8	2	24	44
1030	6	6	1	24	42
1040	6	6	1	24	42
1050	6	5	0	24	42
1100	6	5	0	24	41
1110	5	1	1	24	42
1120	6	4	0	24	42
1130	4	4	1	24	42
1140	5	3	1	24	43
1140	0	0	1	24	43
1150	4	3	1	24	42
1200	5	4	1	24	43
1210	4	3	2	24	43
1220	5	4	2	24	42
1230	5	4	3	24	41
1240	5	4	3	24	41
1250	6	5	4	24	42
1300	6	5	5	24	42
1310	7	6	6	24	42
1320	8	7	7	24	42
1330	9	8	8	24	41
1340	8	8	9	24	41
1350	10	11	9	24	42
1400	6	5	9	24	41
1410	9	8	9	24	41
1420	9	8	9	24	41
1430	9	9	10	24	41
1440	9	8	10	24	41
1450	9	8	10	24	40
1500	9	9	10	24	40
1510	9	9	10	24	40
1520	10	9	9	25	39

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Appendix C (continued)

CE-CERT Office 10/27/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1540	9	8	10	25	39
1550	8	8	10	24	40
1600	9	8	9	24	41
1610	8	8	9	24	41
1620	8	7	9	24	41
1630	7	7	9	24	41
1640	8	7	8	24	41
1650	7	7	9	24	41
1700	6	5	8	24	41
1710	4	5	7	24	40
1720	5	5	7	24	40

Pierce Hall Office 10/28/98

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi^b (ppb)	T (C)	RH (%)
930	-3	-16	38	24	47
940	-7	9	39	23	48
950	-6	-20	17	23	49
1000	2	-2	-7	23	48
1010	2	0	-21	23	48
1020	3	2	-27	23	48
1030	35	2	-17	23	48
1040	4	5	2	23	48
1050	5	3	3	23	47
1100	5	2	4	23	46
1110	9	19	8	23	46
1120	8	-4	15	23	45
1130	13	10	20	23	46
1140	16	13	22	23	46
1150	17	27	21	23	47
1200	15	14	20	23	47

1210	15	1	23	23	47
1220	24	17	26	23	46

Appendix C (continued)

Pierce Hall Office 10/28/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1230	21	21	27	23	46
1240	24	23	29	23	46
1250	26	24	31	23	44
1300	26	26	36	23	44
1310	29	27	37	23	43
1320	26	24	34	23	42
1330	26	24	32	23	40
1340	20	20	28	23	40
1350	18	18	24	23	41
1400	20	18	24	23	42
1410	23	24	26	23	42
1420	20	19	27	23	42
1430	25	23	28	23	42
1440	31	40	31	23	42
1450	27	14	32	23	42
1500	30	28	34	23	41
1510	26	23	32	23	41
1520	21	19	25	23	42
1530	20	30	23	23	41
1540	13	5	23	23	41
1550	20	16	21	23	41
1600	20	19	22	23	40
1610	17	16	21	23	39
1620	15	13	18	23	38
1630	17	23	17	23	38
1640	18	20	17	23	38
1650	11	3	17	23	38
1700	13	13	14	23	37
1710	15	13	11	23	36
1720	5	14	8	23	37

Appendix C (continued)

Pasadena Residence 1 Indoor 10/30/98

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
940	-31	-20	4	25	44
950	-42	-19	3	25	44
1000	-18	-8	4	25	43
1010	-13	-5	5	25	42
1020	-8	-2	6	25	42
1030	1	1	5	25	42
1040	-4	1	4	25	43
1050	1	2	4	25	43
1100	2	2	3	25	43
1110	3	3	4	25	43
1120	4	3	3	25	43
1130	3	4	3	25	43
1140	5	3	3	26	43
1150	5	5	3	26	43
1200	6	5	4	26	43
1210	6	5	3	26	43
1220	5	5	3	26	43
1230	6	5	3	26	43
1240	6	5	2	26	43
1250	7	5	2	26	42
1300	5	5	3	26	42
1310	13	5	3	26	41
1320	6	1	5	26	39
1330	8	9	12	26	37
1340	8	5	22	26	36
1350	6	20	22	26	37
1400	8	8	19	26	36
1410	9	9	21	26	36
1420	9	11	22	26	35
1430	13	11	28	26	34
1440	12	5	31	26	33
1450	15	25	29	26	32
1500	13	14	27	26	32
1510	5	6	16	26	34

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Appendix C (continued)

Pasadena Residence 1 Indoor 10/30/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1530	11	6	7	26	34
1540	9	7	7	26	34
1550	9	6	7	26	35
1600	9	5	6	27	36
1610	8	5	3	27	36
1620	7	5	4	27	35
1630	6	5	4	27	36
1640	6	3	5	27	35
1650	5	3	6	27	33

Pasadena Residence 1 Outdoor 10/30/98

Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
940	-23	15	17	61
950	-1	17	17	62
1000	6	19	17	61
1010	6	18	22	42
1020	15	17	24	40
1030	15	17	24	40
1040	15	18	24	38
1050	19	20	24	37
1100	17	18	24	36
1110	17	17	24	36
1120	19	18	25	35
1130	19	19	25	34
1140	19	19	23	39
1150	19	17	22	43
1200	20	18	21	44
1210	21	19	21	42
1220	20	20	21	44
1230	18	20	21	41

1240	17	18	22	40
1250	17	19	22	39

Appendix C (continued)

Pasadena Residence 1 Outdoor 10/30/98 (continued)

Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1300	17	20	22	39
1310	20	19	23	37
1320	28	25	23	38
1330	29	29	23	39
1340	31	29	23	40
1350	30	31	22	40
1400	28	32	23	40
1410	39	31	22	40
1420	31	29	22	42
1430	35	34	22	41
1440	38	38	21	39
1450	35	36	21	39
1500	35	34	21	40
1510	34	36	21	39
1520	37	35	21	39
1530	35	34	20	39
1540	34	34	20	38
1550	32	33	20	38
1600	31	31	20	38
1610	28	27	20	39
1620	28	27	20	38
1630	28	26	19	37
1640	26	22	19	38
1650	14	18	19	39
1700	1	9	19	42

Pasadena Residence 1 Indoor 10/31/98

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
920	9	15	4	24	46
930	-24	-2	17	24	45

940	-13	-1	17	24	46
950	-4	1	13	25	45

Appendix C (continued)

Pasadena Residence 1 Indoor 10/31/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1000	5	5	12	25	45
1010	10	7	14	25	45
1020	7	6	12	25	45
1030	7	6	11	26	43
1040	10	8	15	26	42
1050	8	7	13	26	43
1100	7	6	9	26	42
1110	8	8	9	26	42
1120	6	7	9	26	42
1130	6	5	9	26	42
1140	6	7	8	26	41
1150	5	3	8	26	41
1200	6	6	8	26	41
1210	6	6	10	26	41
1220	6	6	10	26	41
1230	5	5	8	26	40
1240	7	6	8	26	40
1250	6	8	8	26	39
1300	8	4	8	27	39
1310	8	6	8	27	39
1320	8	7	8	27	39
1330	8	7	9	27	39
1340	9	9	11	27	37
1350	9	9	11	27	38
1400	9	8	11	27	39
1410	8	9	9	27	40
1420	8	6	9	27	40
1430	11	8	11	27	39
1440	9	12	15	27	39
1450	9	9	15	27	40
1500	9	9	16	27	40
1510	12	12	15	27	40
1520	9	10	14	27	40
1530	9	9	15	27	41

1540 8 5 12 28 41

Appendix C (continued)

Pasadena Residence 1 Indoor 10/31/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1550	8	8	10	28	41
1600	6	8	11	28	42
1610	8	8	11	28	42
1620	7	7	11	28	42
1630	7	8	11	28	42
1640	8	7	12	28	41
1650	9	10	12	28	41
1700	7	7	12	28	41

Pasadena Residence 1 Outdoor 10/31/98

Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
920	50	6	17	66
930	15	28	18	63
940	25	28	18	64
950	24	32	18	59
1000	30	30	26	36
1010	31	31	27	33
1020	31	36	28	32
1030	35	33	29	29
1040	37	37	28	32
1050	38	40	28	31
1100	41	40	28	31
1110	41	40	28	30
1120	39	38	29	28
1130	38	41	27	30
1140	39	46	24	35
1150	40	46	24	36
1200	43	44	24	36
1210	41	40	24	36
1220	39	36	24	36

1230	39	39	24	36
1240	38	35	24	35

Appendix C (continued)

Pasadena Residence 1 Outdoor 10/31/98 (continued)

Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1250	34	34	24	32
1300	42	36	25	34
1310	38	35	25	33
1320	43	40	25	33
1330	45	44	24	35
1340	45	39	24	40
1350	38	33	24	45
1400	38	36	24	47
1410	41	39	23	48
1420	40	38	23	49
1430	46	38	23	49
1440	44	41	23	50
1450	45	43	22	51
1500	43	43	22	51
1510	43	43	22	53
1520	42	41	22	55
1530	42	34	21	58
1540	36	31	21	59
1550	38	36	21	59
1600	39	38	21	59
1610	37	35	20	61
1620	35	32	20	62
1630	35	34	20	62
1640	35	34	20	63
1650	34	31	19	63
1700	33	29	19	64

Pasadena Residence 2 Indoor 11/2/98

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
920	8	13	2	21	54

930	-17	-4	2	21	54
940	-3	2	2	21	55

Appendix C (continued)

Pasadena Residence 2 Indoor 11/2/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
950	-1	-8	2	21	55
1000	2	2	2	21	55
1010	3	3	2	21	54
1020	3	5	2	21	54
1030	3	4	2	21	54
1040	5	5	2	21	53
1050	6	6	2	21	53
1100	6	6	2	21	53
1110	6	6	2	22	52
1120	7	7	2	22	52
1130	8	7	2	22	52
1140	8	8	2	22	52
1150	8	8	3	22	52
1200	8	8	4	22	52
1210	9	8	3	22	52
1220	9	9	4	22	52
1230	3	13	5	22	51
1240	9	10	4	22	51
1250	24	23	29	22	51
1300	47	48	59	23	51
1310	48	46	61	23	51
1320	54	41	57	23	49
1330	47	46	56	23	50
1340	50	49	56	23	49
1350	44	43	54	23	50
1400	42	41	49	23	49
1410	37	36	42	23	49
1420	39	38	41	23	49
1430	36	34	39	23	49
1440	28	28	32	23	49
1450	17	16	22	23	48
1500	27	26	22	23	48
1510	12	12	17	23	48
1520	8	8	7	23	48

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Appendix C (continued)

Pasadena Residence 2 Indoor 11/2/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1540	6	6	4	24	48
1550	5	5	3	24	48
1600	4	4	2	24	48
1610	4	4	2	24	48
1620	4	3	3	24	48
1630	3	3	3	24	48
1640	3	3	3	23	49
1650	2	3	2	23	49
1700	4	2	2	23	50

Pasadena Residence 2 Outdoor 11/2/98

POM^a					
Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)	
930	7	50	17	64	
940	-6	27	17	65	
950	3	23	17	64	
1000	14	24	18	62	
1010	18	31	18	62	
1020	23	36	18	62	
1030	28	36	19	59	
1040	31	36	18	62	
1050	35	39	19	61	
1100	38	45	19	58	
1110	45	49	19	56	
1120	46	52	19	57	
1130	49	57	19	57	
1140	55	60	20	55	
1150	57	62	20	54	
1200	61	65	20	55	
1210	63	67	21	54	

1220	63	67	21	53
1230	67	69	21	53
1240	66	72	21	51

Appendix C (continued)

Pasadena Residence 2 Outdoor 11/2/98 (continued)

Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1250	65	70	22	51
1300	65	72	21	51
1310	68	70	21	51
1320	64	71	21	50
1330	61	71	22	49
1340	64	67	21	49
1350	53	62	22	49
1400	49	54	22	48
1410	47	54	21	50
1420	49	54	21	49
1430	47	54	21	48
1440	37	45	21	50
1450	38	40	21	50
1500	34	38	21	51
1510	30	37	21	51
1520	32	39	21	52
1530	30	37	20	54
1540	30	36	20	55
1550	32	34	20	57
1600	31	33	19	59
1610	28	35	19	60
1620	30	35	18	62
1630	31	34	18	65
1640	25	30	17	68
1650	18	25	17	70
1700	16	22	16	71

Pasadena Residence 2 Indoor 11/3/98

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
930	-12	-10	3	21	54

940	-20	-11	3	21	55
950	-12	-15	2	21	55

Appendix C (continued)

Pasadena Residence 2 Indoor 11/3/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1000	-2	-5	2	21	55
1010	-3	-2	2	21	54
1020	0	1	2	21	54
1030	4	2	2	21	54
1040	4	3	2	21	53
1050	3	4	2	21	53
1100	4	4	1	21	53
1110	5	5	2	22	52
1120	6	6	2	22	52
1130	6	6	2	22	52
1140	6	6	2	22	52
1150	12	8	2	22	52
1200	6	8	1	22	52
1210	25	23	16	22	52
1220	42	33	42	22	52
1230	46	39	51	22	51
1240	51	44	53	22	51
1250	54	49	53	22	51
1300	56	50	54	23	51
1310	60	58	58	23	51
1320	59	53	59	23	49
1330	57	54	52	23	50
1340	55	52	49	23	49
1350	55	52	55	23	50
1400	53	49	51	23	49
1410	56	53	53	23	49
1420	49	48	53	23	49
1430	49	48	44	23	49
1440	24	24	27	23	49
1450	10	12	12	23	48
1500	5	7	6	23	48
1510	15	16	12	23	48
1520	17	19	21	23	48
1530	13	16	19	23	48

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Appendix C (continued)

Pasadena Residence 2 Indoor 11/3/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1550	13	13	14	24	48
1600	10	10	12	24	48
1610	5	6	7	24	48
1620	3	4	3	24	48
1630	2	3	2	24	48
1640	0	2	2	23	49
1650	3	3	1	23	49
1700	3	3	1	23	50

Pasadena Residence 2 Outdoor 11/3/98

Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
930	-3	16	18	44
940	1	24	19	44
950	10	28	19	41
1000	11	26	20	43
1010	13	23	20	43
1020	17	29	20	39
1030	20	29	21	39
1040	21	27	21	41
1050	24	33	21	40
1100	27	33	22	37
1110	36	35	22	37
1120	36	43	22	35
1130	44	47	22	37
1140	41	51	23	34
1150	55	51	23	32
1200	50	54	23	32
1210	49	57	23	30
1220	57	58	23	28
1230	59	52	24	28

1240	59	53	24	28
1250	57	63	24	29

Appendix C (continued)

Pasadena Residence 2 Outdoor 11/3/98 (continued)

Time (hhmm)	POM^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1300	63	55	24	28
1310	66	58	24	28
1320	64	65	24	28
1330	62	65	24	27
1340	58	63	24	29
1350	62	54	24	28
1400	63	54	24	28
1410	63	54	23	27
1420	63	58	24	29
1430	56	65	23	28
1440	54	57	23	30
1450	48	49	23	29
1500	39	42	23	35
1510	24	31	23	39
1520	24	29	23	40
1530	23	28	23	39
1540	23	25	22	36
1550	21	21	22	36
1600	21	22	21	35
1610	24	24	20	34
1620	26	24	20	34
1630	21	23	19	37
1640	13	16	19	40
1650	10	12	18	43
1700	8	9	18	47

Photocopy Room 12/10/98

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
910	8	5	0	23	25
920	8	7	1	23	24

930	10	8	1	23	24
940	9	7	1	24	24

Appendix C (continued)

Photocopy Room 12/10/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
950	9	6	0	24	24
1000	9	6	1	24	24
1010	10	8	1	24	25
1020	9	7	1	24	24
1030	9	7	1	25	24
1040	8	6	1	25	24
1050	8	6	1	25	23
1100	6	5	1	25	23
1110	7	5	1	25	23
1120	9	7	2	25	23
1130	16	13	2	26	24
1140	13	10	2	26	23
1150	14	12	3	27	24
1200	17	14	3	27	24
1210	13	10	2	27	23
1220	9	6	2	27	22
1230	6	5	2	27	22
1240	6	4	2	27	23
1250	6	5	2	27	23
1300	6	4	3	27	22
1310	8	6	4	27	22
1320	9	8	7	27	22
1330	11	9	9	27	22
1340	12	11	11	27	22
1350	13	11	11	28	22
1400	14	12	13	28	22
1410	16	15	14	28	22
1420	15	12	12	28	23
1430	16	14	13	28	23
1440	24	23	20	28	23
1450	42	40	34	28	24
1500	42	39	34	29	22
1510	18	15	24	28	21
1520	14	14	24	28	22

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Appendix C (continued)

Photocopy Room 12/10/98 (continued)

Time (hhmm)	POM 1^a (ppb)	POM 2^a (ppb)	Dasibi (ppb)	T (C)	RH (%)
1540	12	11	20	27	21
1550	14	14	17	27	21
1600	24	23	24	27	20
1610	14	14	19	27	20
1620	27	26	30	27	21
1630	19	17	18	27	21

a. POM measurements that were below zero or extremely high on some days were caused by signal noise problems created by faulty grounding. Modifications to the POM design have corrected this noise problem. The POM measurements made indoors on 11/3/98 that were below zero were caused by the sensor lag discussed in section 3.3.1.

b. The Dasibi ozone analyzer was initially unstable on this day. Another Dasibi was substituted at 10:30 and produced stable measurements. The first Dasibi did not display this behavior on any other day of sampling.