Citation	Exclusion Reason *	Reviewed By *	Date Published *	First date data was collected	Last date data was collected	Collection Method *	Coll. Time (hrs)	Collection Location *	Collection Season *	Type of Study *	Contaminant of Concern *	Number of Samples *	Number of VOC Analytes
Adgate et al 2004		Nancy	2004	1997	1997	Passive	144	Living space	sp, su	Indoor Air	10 VOCs	284	10
Sexton 2004 (mislabeled as 'Sexton 2004' - actually is Adgate et al, 2004b)		Brian	2004	2000	2000	Passive	~48	indoor home	wn	SHIELD Analysis		93	15
									sp			88	15
							~31 hr over 5 days	indoor school	wn			39	15
									sp			47	15
Bonanno et al 2001		Rafael	2001	1995	1997	Passive				NHEXAS analysis	11 VOCs	248	10
Clayton et al 1999		Gerard	1999	1995	1997	Passive	144	Indoor, Outdoor, Perso	See Pellizzari, e	NHEXAS analysis	Benzene, chloroform, PCE, TCE	169 personal 218 indoor	4
Garetano and Gochfeld 2000		Gerard	2000	1998	1998	Passive	48 & 24	Mainly bedroom, or other indoor area	wn	PCE	PCE	30	1
Kinney et al 2005		Lisa	2005	1999	1999	Multisorbent tubes	48	homes,roofs, personal	wn, su	Indoor Air	PM2.5, VOCs	48	17
McDermott et al 2005		Rafael	2005	2001	2003	Passive badges	24	Living Area		Apts in Dry Cleaning buil	PCE	65	1
										Apts w/o Dry Cleaners		70	
NYSDOH 2006		Rich	2006	1997	2003	Canisters	2			Indoor Air		600	69
Rago et al 2005		Rich	NOT	2004	2005	Canisters			wn	Indoor Air		100	64
Sexton et al 2004		KEN	2004	Apr-99	Nov-99	Passive badges	48	Indoor, Outdoor, Perso	sp, su, fa	Indoor Air	15 VOCs	292	15
Weisel et al 2005		Gerard	2005	1999	2001	Passive	48	Indoor, Outdoor, Perso	wn, sp, su, fa	Indoor Air	16 VOCs	300	16
Weisel 2006			2006	2003	200?	Canisters	24	Activly used indoor space	wn, sp, su, fa	Indoor Air	57 VOCs	100	57

Given Low Priority After Analysis

Gordon et al 1999	Low Priority	Rafael	1999		1998	Passive badges	144	indoors		NHEXAS analysis	benz, tol, tce	170	3
						Passive badges	144	outdoors			benz, tol, tce	59	3
						Passive tubes	144	indoors			formaldehyde	171	1
						Passive tubes	144	outdoors			formaldehyde	59	1
						Pumped tubes	8	indoors			6 VOCs	17	6
						Pumped tubes	8	outdoors			6 VOCs	14	6
Heavner et al 1996	Low Priority	Diane	1996	1992	1992	Personal, pumped tubes	Avg (home): 14.08 h	personal indoor	fa	Indoor Air - Focus on Smokers	VOCs,TVOCs	208	33
							Avg (work): 7.6 h						
Richardson et al 2004	Low Priority	Nancy	2004	2004	2004	Canisters	24	Basement	fa	Indoor Air		12	42
Schreiber et al 1993	Low Priority	Diane	1993	1990	1990	Canisters	12	most likely impacted room	su	Indoor Air	PCE	12 indoor; 12 outdoor; 24 controls	13
Sheldon LS et al 1992	Low Priority	Lisa	1992	1990	1990	Canisters	24	Indoor, Outdoor, Personal		Indoor Air	VOCs	128	11
Van Winkle and Scheff 2001	Low Priority	Diane	2001	1994	1995	Canisters	24	Kitchen	wn, sp, su, fa	Indoor Air	VOCs	48	37

Rejected After Analysis

Adgate et al 2004b	repeat	KEN	2004	Jan-00	May-00	Passive	48	Living space, Outdoor,	wn, sp	SHIELD Analysis	15 VOCs	181	15
Brown et al 1994	Old	Diane	1994	1978	1990	Various - not given	From <1 hr to 21 days	indoor, outdoor	Various - not given	Indoor Air	VOCs, TVOCs	50 studies	80+
Boyer 2003	Not Avail.	Rich	2003		Not Given	Not given				Indoor Air			8
Foster SJ et al 2002	Hyperexposed population	Lisa	2002	1996	2001	Canisters	24	Living Space	wn,su,sn,f	Indoor Air	CVOCs	427	11
Kurtz and Folkes 2002	Hyperexposed population	Lisa	2002	1998	2001	Canisters	24	Living Space	wn, sp, su, fa	Indoor Air	DCM,PCE	280	8
Morandi and Stock 1998	Feasibility St	Brian	1998	1996	1996	Passive	24	living space	fa	Method comparison		15	8
							24	living space	fa	Method comparison		15	8
							72	living space	fa	Method comparison		5	8
							72	living space	fa	Method comparison		5	7
NYSDOH (undated)	Dry Cleaners	Nancy	2005							Indoor Air impacted by D	PCE		
NYSDOH 2003b	QC Issues	KEN	2003	1989	1996	Canisters, Passive	1 to 12	Living Space, Basement, Outdoors		Indoor Air	57 VOCs, 17 most detected	146 indoor	57
NYSDOH 2003c	Same as NY	Brian	2003	1997	2003	Canisters	2	basement, living space	"heating and no	Indoor & Outdoor Air		400 indoor, 200 outdoor	69
Otson et al 1994	No Data	Gerard	1994	Early 1990's.	Need Otson	Passive	24	Need Otson, et al., 1992a	Need Otson, et al., 1992a	Indoor Air	52 VOCs	757	52
Pellizzari et al 2001	Not Avail.	Nancy	2001	1995	1997	Passive	144	Indoor	sp,su,fa,wi	NHEXAS analysis	10 VOCs	247	10
Pratt et al 2005	Comparison Study	KEN	2005	Apr-99	Nov-99	Passive	48	Outside	sp, su, fa	Method comparison		142	10
						Canister						129	
Sexton et al 2007	Modeling	Rafael	2007	1999	1999	Passive badges	48	Indoor, Outdoor, Perso	sp, su, fa	Modeling			14
USEPA 2007	Database Of	Rich								NHEXAS analysis			
Wallace et al 1995	Not Avail.	Brian	1995	1994	1995					Indoor Air	PCE		
Weisel 2005	more data in Weissel 2006		2005	2003	2005	Canisters	24	Activly used indoor space	wn, sp, su, fa	Indoor Air	42 VOCs	55	42

School Studies not reviewed

Kinney et al 2002			2002	1999	1999	Personal	48	Roofs, Persons	wn, su	Indoor Air		46	17

Citation	Exclusion Reason *	Reviewed By *	Date Published *	First date data was collected	Last date data was collected	Collection Method *	Coll. Time (hrs)	Collection Location *	Collection Season *	Type of Study *	Contaminant of Concern *	Number of Samples *	Number of VOC Analytes
NESCAUM			2002										
Ohio 2007			2007	2000	2000	Passive	103		wn, sp, su	Personal Exposure			6

Citation	Exclusion Reason *	Reviewed By *	Date Published *	First date data was collected	Last date data was collected	Collection Method *	Coll. Time (hrs)	Collection Location *	Collection Season *	Type of Study *	Contaminant of Concern *	Number of Samples *	Number of VOC Analytes
Rejected based on Abstract													
Altmann et al 1995	European		1995	1992	1992	Passive	168	Living space	sp	PCE	PCE	39	1
Aggazzotti et al 1994a	European		1994							PCE	PCE	77	1
Aggazzotti et al 1994b	European		1994	1992	1993	Passive, grab, alveolar		Workplace,home	wn, sp, su, fa	PCE	PCE	136	1
ATSDR 2002	Impacted site		2002							PCE	PCE		
Cai et al 1991	Occupational		1991							PCE	PCE		
Cavalleri et al 1994	Occupational		1994							PCE	PCE	35	1
Chan et al 1990	Old		1990	1986	1986	Passive				Indoor Air			23
Chung et al 1999a	Lab Study		1999			Passive	24			Lab Test		8	9
Chung et al 1999b	Lab Study		1999			Passive	24			Lab Test		8	9
Daisey et al 1994	Occupational		1994	1990	1990	Multisorbent	8	Working space	su, fa	Office Air			38
Earnest 1996	Dry Cleaners		1996							PCE	PCE		
Echeverria et al 1995	Dry Cleaners		1995							PCE	PCE		
Ferroni et al 1992	Effects Study		1992							PCE	PCE		
Girman et al 1999	Occupational		1999							BASE Study			
Gobba et al 1997	Dry Cleaners		1997							PCE	PCE		
Gulyas and Hemmerling 1990	Dry Cleaners		1990							PCE	PCE		
Hodgson et al 2000	Unoccupied Homes		2000	1997	1998	Tenax-TA	2-9.5 mos	Living space, Outdoors		Indoor Air			54
Kawauchi and Nishiyama 1989	Dry Cleaners		1989							PCE	PCE		
Keen et al 1996	Dry Cleaners		1996							PCE	PCE		
Kennish 2005	Too few homes		2005	2005	2005	Canisters, Passive	72	Inside, Garage	sp	Method comparison	BTEX	62 passive, 15 canister	4
Materna 1985	Dry Cleaners		1985							PCE	PCE		
Moschandreas and O'Dea 1995	Dry Cleaners		1995							PCE	PCE		
NYSDOH 1997	Same as NYSDOH 2006		1997	1989	1996					Indoor Air			
NYSDOH 2003a	Guidance		2003							PCE	PCE		
Park et al 1998	Vehicle		1998							Air exchange in a car			
Pellizzari et al 1984	Old		1984							Dry Cleaners			
Räisänen et al 2001	Dry Cleaners		2001			Passive, Charcoal tubes	8			Dry Cleaners	PCE		
Samfield 1992	European		1992	1979	1991	Passive, Canister	0.25-336			Literature Survey			220
Seeber 1989	Effects Study		1989							PCE	PCE		
Shah and Heyerdahl 1988	Old		1988	1970	1987					Indoor Air			
Shah and Singh 1988	Old		1988	1970	1987					Indoor Air			
Shields et al 1996	Occupational		1996							Indoor Air			
Solet et al 1990	Dry Cleaners		1990							PCE	PCE		
Stolwijk 1990	Old		1990										
Thomas et al 1991	Dry Cleaners		1991							Indoor Air			
Tichenor et al 1990	Dry Cleaners		1990							PCE	PCE		
USEPA 1987	Old		1987							TEAM analysis			
USEPA 1988	Old		1988										
USEPA 1991	Guidance		1991										
USEPA 1992	Old		1992										
USEPA 1998	Guidance		1998										
USEPA 2000	Emissions		2000	1900	1998					Emissions Trends			
USEPA 2001	Occupational		2001	1994	1996					BASE Study			
USEPA 2002	Guidance		2002							Indoor Air			
USEPA 2002b	Guidance		2002										
USEPA 2005	Dry Cleaners		2005							PCE	PCE		
Vermont DOH	Unknown Methods		1992	1991	1992				wn, sp, su, fa	Indoor Air		212	25
Wallace 1989	Old		1989	1981	1988					TEAM Analysis			
Wallace 1991	TVOC only		1991	1981	1988	Passive (Tenax)	12	Indoor, Outdoor, Personal		TEAM Analysis	TVOC	2700	1
WHO 1984	Old		1984							PCE	PCE		

Citation	Structure Type	Number of Houses/Structures Sampled	Rural or (sub)Urban?	Detection Limits	Location	Data Available: Mean	50th	75th	90th	95th	Max	Other	MDLs	Raw Data
	*		*	*	*	11	12	5	6	4	7	*	6	1
Adgate et al 2004	Homes	I - 284, II - 72	Rural, Urban	<1 ug/m3	Minneapolis, St. Paul, Rice	yes	yes	yes	no	yes	no	95% CI on mean	yes	no
Sexton 2004 (mislabeled as 'Sexton 2004' - actually is Adgate et al, 2004b)	homes homes schools schools	88+ 5 rooms in 2 schools	urban		Minneapolis	no	yes	no	yes	no	no			
Bonanno et al 2001	Homes	326	Rural, Suburban		Region 5	yes	yes	no	no	no	yes	StDev, N, %ND		
Clayton et al 1999	Homes/Apts.	250	See Pellizzari, et al. 1995	See Pellizzari, et al. 1995	Region 5	yes	yes	no	yes	no	no	N, %ND		
Garetano and Gochfeld 2000	Apts	12 residences in 8 blgs, plus 6 controls	Urban		Hudson County, NJ	yes	yes	no	no	no	yes	Min, StD		
Kinney et al 2005	schools, homes	43(?)	Urban	<2ug/m3	NYC	yes	yes	yes	no	no	yes	25th%	yes	
McDermott et al 2005	Apts	65 apts in 24 buildings - 70 apts in 41 buildings	Urban	5 ug/m3	NYC	yes	yes	no	no	no	yes	min	yes	no
NYSDOH 2006	Homes			0.25 ug/m3	New York	yes	yes	yes	yes	yes	yes	N, %ND, Min, 25th, 99th	yes	
Rago et al 2005	homes		R, S, U	various	Massachusetts	yes	yes	yes	yes	no	yes	N, %ND, Min	RL's	no
Sexton et al 2004	Homes, Apts	132?	Urban	varies <0.5 ug/m3	Minnesotta	yes	yes		yes			10th, %ND	yes	
Weisel et al 2005	Homes	100	Urban		Elizabeth, NJ; Los Angeles and Houston	yes	yes	no	no	yes	no	N, %ND, StD, 1st, 5th, 99th		no
Weisel 2006	Homes	100	Suburban, Rural	1-5ug/m3	New Jersey	yes	yes	yes	yes	yes	yes	N, %ND, min, 25th%, SD	yes	yes

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Gordon et al 1999					Arizona	no	yes	yes	yes	no	yes	n det		
Heavner et al 1996	Homes, Offices	104 homes/ 104 workplaces	suburban/ urban	not given but possibly 2.5 ng	NJ and Pennsylvania	yes	yes	no	no	no	yes	min	no	
Richardson et al 2004	Homes	12	Urban	various	Cincinnati, Sanduscky OH and Detroit	yes	yes				yes		0.2 - 1.0 pptv	no
Schreiber et al 1993	Apartments	6	Urban	1.5 $\mu g/m^3$	New York	yes	no	no	no	no	yes	min	no	yes
Sheldon LS et al 1992	Homes	128	SU, U	<3ug/m3	California	yes	yes	yes	yes	no	yes	10th, 25th	yes	
Van Winkle and Scheff 2001	Homes	10	Urban	>10x mean blank	Chicago	yes	yes	no	yes	no	yes	min	no	no

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Adgate et al 2004b	Homes, Apts, School	113?	Urban	varies <0.5 ug/m3	Minneapolis		yes		yes			10th, %det		
Brown et al 1994	Homes, schools, hospitals, offices	Many-not given	Various-not given	Various-not given	Wordwide	some	some	no	yes	no	some	98th %ile; Avg Max; Weighted Avg Geom Mean	no	no
Boyer 2003					New Jersey									
Foster SJ et al 2002	Homes, Apts	36 (VOCs)	Urban	<0.2ug/m3	Denver	yes	no	no	no	no	yes	95%UCL	yes	
Kurtz and Folkes 2002	Homes	120	Suburban	1 ppt	Denver	yes	yes	no	yes	yes	yes		yes	
Morandi and Stock 1998	Homes Homes Homes Homes		Urban Urban Urban Urban	various various various various	Souhtwest Houston Pasadena Souhtwest Houston Pasadena	yes	yes				yes		yes	no
NYSDOH (undated)	Apartments													
NYSDOH 2003b	Homes	53	??	<10 ug/m3	New York	yes	yes	yes		yes		5th, 25th, n detected		
NYSDOH 2003c	Homes	104		0.25 ug/m3	New York	no	yes	yes	yes	no	no	25th, N, %ND		no
Otson et al 1994	Homes	757	Need Otson, et al., 1992a	Need Otson, et al., 1992a	Canada	no	no	no	no	no	no		no	no
Pellizzari et al 2001	Homes		all??	various	Region 5									
Pratt et al 2005	Outdoor only		Suburban	varies <0.5 ug/m3	Minneapolis/St Paul		yes	yes				1st tertile (25th%?)		no No
Sexton et al 2007	Homes		Urban, Suburban		Minnesotta							Modeled indoor air concs		
USEPA 2007														Yes
Wallace et al 1995	Apts				New York									
Weisel 2005	Homes	55	Suburban, Rural	1-5ug/m3	New Jersey	Raw Data	yes	Raw Data	yes	yes	yes	N, %ND, 10th%	yes	yes

School Studies not reviewed

Kinney et al 2002	Schools		Urban		NYC									

Citation	Structure	Number of	Rural or	Detection	Location	Data Available								
	Type	Houses/Structures	(sub)Urban?	Limits		Mean	50th	75th	90th	95th	Max	Other	MDLs	Raw Data
	*	Sampled	*	*	*	11	12	5	6	4	7	*	6	1
NESCAUM	Schools													
Ohio 2007	Schools		R, SU, U											

Citation	Structure	Number of	Rural or	Detection	Location	Data Available								
	Type	Houses/Structures	(sub)Urban?	Limits		Mean	50th	75th	90th	95th	Max	Other	MDLs	Raw Data
	*	Sampled	*	*	*	11	12	5	6	4	7	*	6	1
Rejected based on Abstract														
Altmann et al 1995	Apts		Urban	0.02 ug/m3	Germany									
Aggazzotti et al 1994a	Homes, workplaces		Urban		Italy									
Aggazzotti et al 1994b	Workplaces, homes		Urban	0.1 mg/m3	Italy									
ATSDR 2002					Wall NJ									
Cai et al 1991														
Cavalleri et al 1994														
Chan et al 1990					Canada									
Chung et al 1999a	Lab		NA	various	Houston									
Chung et al 1999b	Lab		NA	various	Houston									
Daisey et al 1994	Offices			0.1-0.4ppb	California									
Earnest 1996														
Echeverria et al 1995														
Ferroni et al 1992														
Girman et al 1999	Offices													
Gobba et al 1997														
Gulyas and Hemmerling 1990														
Hodgson et al 2000	Homes (new, manufactured)				Southeast									
Kawauchi and Nishiyama 1989														
Keen et al 1996														
Kennish 2005	Homes	2	Urban		Anchorage									
Materna 1985														
Moschandreas and O'Dea 1995														
NYSDOH 1997					New York									
NYSDOH 2003a														
Park et al 1998														
Pellizzari et al 1984														
Räisänen et al 2001														
Samfield 1992				various										
Seeber 1989														
Shah and Heyerdahl 1988	homes, offices													
Shah and Singh 1988														
Shields et al 1996	Offices													
Solet et al 1990														
Stolwijk 1990														
Thomas et al 1991					NJ									
Tichenor et al 1990														
USEPA 1987														
USEPA 1988														
USEPA 1991	Schools													
USEPA 1992														
USEPA 1998														
USEPA 2000														
USEPA 2001	Offices				USA									
USEPA 2002														
USEPA 2002b														
USEPA 2005														
Vermont DOH			Rural	various	Vermont									
Wallace 1989														
Wallace 1991	Homes, Offices													
WHO 1984														

Citation	Link	Full Citation
	*	*
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Weisel 2006	http://ww	Weissel 2005. Investigation of Indoor Air Sources of VOC Contamination - Final Report Year 2. Submitted to NJDEP Oct 2006. Report #SR03-033.

Given Low Priority After Analys

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