

National Health and Nutrition Examination Survey

2017-March 2020 Data Documentation, Codebook, and Frequencies

Volatile Toxicant (P_VTQ)

Data File: P_VTQ.xpt

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Component Description

The NHANES program suspended field operations in March 2020 due to the coronavirus disease 2019 (COVID-19) pandemic. As a result, data collection for the NHANES 2019-2020 cycle was not completed and the collected data are not nationally representative. Therefore, data collected from 2019 to March 2020 were combined with data from the NHANES 2017-2018 cycle to form a nationally representative sample of NHANES 2017-March 2020 pre-pandemic data. These data are available to the public. Please refer to the Analytic Notes section for more details on the use of the data.

The volatile toxicant questionnaire (variable name prefix VTQ) includes data about the participants home, activities, amount of time spent in various locations and exposure to different chemicals over the past 48 hours. This questionnaire data can be used in conjunction with the volatile organic compound (VOC) laboratory dataset ([P_VOCWB](#)) in the NHANES 2017 – March 2020 Pre-Pandemic Laboratory Data section on the NHANES website.

VOCs are a large group of chemicals that have been used as solvents, degreasers, and cleaning agents in industry and consumer products. Many VOCs were found to contaminate ground water and drinking water sources, and because of human health concerns, have been banned or restricted from most uses.

Eligible Sample

Participants aged 12 years and older from a one-half sample in the NHANES 2017-March 2020 pre-pandemic sample were eligible.

Interview Setting and Mode of Administration

The volatile toxicant questionnaire was asked in the mobile examination center (MEC), by trained phlebotomists, using the computer-assisted personal interview (CAPI) system.

Quality Assurance & Quality Control

VTQ data were systematically reviewed for consistency, data processing, and data input errors on a periodic basis during the data collection.

The CAPI system is programmed with built-in consistency checks to reduce data entry errors. CAPI also uses online help screens to assist interviewers in defining key terms used in the questionnaire. All of the data were reviewed by the NHANES field office staff for accuracy and completeness.

Data Processing and Editing

Data were edited for completeness and consistency.

Analytic Notes

The COVID-19 pandemic required suspension of NHANES 2019-2020 field operations in March 2020 after data were collected in 18 of the 30 survey locations in the 2019-2020 sample. Data collection was cancelled for the remaining 12 locations. Because the collected data from 18 locations were not nationally representative, these data were combined with data from the previous cycle (2017-2018) to create a 2017-March 2020 pre-pandemic data file. A special weighting process was applied to the 2017-March 2020 pre-pandemic data file. The resulting sample weights in the demographic data file should be used to calculate estimates from the combined cycles. These sample weights are not appropriate for independent analyses of the 2019-2020 data and will not yield nationally representative results for either the 2017-2018 data alone or the 2019-March 2020 data alone. Please refer to the NHANES website for additional information for the

NHANES 2017-March 2020 pre-pandemic data, and for the previous 2017-2018 public use data file with specific weights for that 2-year cycle.

Please refer to the [NHANES Analytic Guidelines](#) and the on-line [NHANES Tutorial](#) for further details on the use of sample weights and other analytic issues.

Codebook and Frequencies

SEQN - Respondent sequence number

Variable Name:	SEQN
SAS Label:	Respondent sequence number
English Text:	Respondent sequence number.
Target:	Both males and females 12 YEARS - 150 YEARS

WTSVOCPR - VOC Subsample Weight Pre-Pandemic

Variable Name: WTSVOCPR**SAS Label:** VOC Subsample Weight Pre-Pandemic**English Text:** VOC Subsample Weight Pre-Pandemic**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
4958.19301 to 899918.46392	Range of Values	4598	4598	
0	No Lab Result	598	5196	End of Section
.	Missing	0	5196	

VTQ210 - Attached garage?

Variable Name: VTQ210**SAS Label:** Attached garage?**English Text:** First, I would like to ask you a few questions about {your/SP's} home. Does {your/her/his} home have an attached garage?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1796	1796	
2	No	2700	4496	
7	Refused	0	4496	
9	Don't know	1	4497	
.	Missing	699	5196	

VTQ200A - Store paints or fuels inside home?

Variable Name: VTQ200A**SAS Label:** Store paints or fuels inside home?**English Text:** {Do you/Does she/Does he} currently store paints or fuels inside {your/her/his} home? Include {your/her/his} basement {and attached garage}.**English Instructions:** CAPI INSTRUCTION: IF SP HAS AN ATTACHED GARAGE (CODED ' 1 ' IN VTQ.210), DISPLAY {and attached garage}.**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1336	1336	
2	No	3103	4439	
7	Refused	1	4440	
9	Don't know	57	4497	
.	Missing	699	5196	

VTQ231A - Use moth balls or toilet deodorizers?

Variable Name: VTQ231A**SAS Label:** Use moth balls or toilet deodorizers?**English Text:** {Do you/Does she/Does he} currently use moth balls, moth crystals or toilet bowl deodorizers inside {your/her/his} home?**English Instructions:** HELP SCREEN SHOULD READ: Some toilet bowl deodorizers clip onto the toilet rim, others, such as deodorant blocks and gels, are placed inside the tank or hang inside the wall of the tank. Brand names include Bully, 2000 Flushes, Vanish, X-14, Ty-D-Bol, Toilet Duck, Clorox, Lime-A-Way, and Sno Bol.**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	958	958	
2	No	3465	4423	
7	Refused	1	4424	
9	Don't know	73	4497	
.	Missing	699	5196	

VTQ233A - Past 3 days inhale smoke for 10 minutes

Variable Name: VTQ233A**SAS Label:** Past 3 days inhale smoke for 10 minutes**English Text:** In the last three days, did {you/she/he} inhale smoke from any source for 10 or more minutes?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	868	868	
2	No	3623	4491	
7	Refused	0	4491	
9	Don't know	6	4497	
.	Missing	699	5196	

VTQ233B - When did you last inhale smoke for 10min

Variable Name: VTQ233B**SAS Label:** When did you last inhale smoke for 10min**English Text:** When did {you/she/he} last spend 10 or more minutes inhaling smoke?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Today	398	398	
2	Yesterday	302	700	
3	More than 2 days	165	865	
7	Refused	0	865	
9	Don't know	3	868	
.	Missing	4328	5196	

VTQ241A - Did you cook with natural gas?

Variable Name: VTQ241A**SAS Label:** Did you cook with natural gas?**English Text:** Now I am going to ask you a few questions about {your/SP's} activities over the last 48 hours. This means today or yesterday. In the last 48 hours, did {you/she/he} cook or bake with natural gas?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	960	960	
2	No	3524	4484	VTQ244A
7	Refused	0	4484	VTQ244A
9	Don't know	12	4496	VTQ244A
.	Missing	700	5196	

VTD241B - Long ago did you cook with natural gas?

Variable Name: VTD241B**SAS Label:** Long ago did you cook with natural gas?**English Text:** Now I am going to ask you a few questions about {your/SP's} activities over the last 48 hours. This means today or yesterday. How long ago, in hours, did {you/she/he} cook or bake with natural gas?**English Instructions:** HOURS HARD EDIT: Range - 1 - 48**Target:** Both males and females 12 YEARS - 150 YEARS**Hard Edits:** 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	956	956	
0	Less than one hour	0	956	
77	Refused	0	956	
99	Don't know	1	957	
.	Missing	4239	5196	

VTQ244A - Did you pump gas into your car?

Variable Name: VTQ244A**SAS Label:** Did you pump gas into your car?**English Text:** In the last 48 hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/herself/ himself}?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	1235	1235	
2	No	3254	4489	VTQ251A
7	Refused	0	4489	VTQ251A
9	Don't know	7	4496	VTQ251A
.	Missing	700	5196	

VTD244B - Long ago did you pump gas in your car?

Variable Name: VTD244B

SAS Label: Long ago did you pump gas in your car?

English Text: How long ago, in hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/herself/ himself}?

English Instructions: HOURS HARD EDIT: Range - 1 - 48

Target: Both males and females 12 YEARS - 150 YEARS

Hard Edits: 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	1221	1221	
0	Less than one hour	7	1228	
77	Refused	0	1228	
99	Don't know	0	1228	
.	Missing	3968	5196	

VTQ251A - Spend time in pool, hot tub, steam room?

Variable Name: VTQ251A**SAS Label:** Spend time in pool, hot tub, steam room?**English Text:** In the last 48 hours, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	131	131	
2	No	4365	4496	VTQ261A
7	Refused	0	4496	VTQ261A
9	Don't know	0	4496	VTQ261A
.	Missing	700	5196	

VTD251B - How long ago since at pool, hot tub?

Variable Name: VTD251B

SAS Label: How long ago since at pool, hot tub?

English Text: How long ago, in hours, has it been since {you/she/he} spent time at a swimming pool, in a hot tub, or in a steam room?

English Instructions: HOURS HARD EDIT: Range - 1 - 48

Target: Both males and females 12 YEARS - 150 YEARS

Hard Edits: 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	130	130	
0	Less than one hour	0	130	
77	Refused	0	130	
99	Don't know	0	130	
.	Missing	5066	5196	

VTQ261A - In last 48 hrs use dry cleaning solvent?

Variable Name: VTQ261A**SAS Label:** In last 48 hrs use dry cleaning solvent?**English Text:** In the last 48 hours, did {you/she/he} use dry cleaning solvents, visit a dry cleaning shop or wear clothes that had been dry-cleaned within the last week?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	156	156	
2	No	4328	4484	VTQ271A
7	Refused	0	4484	VTQ271A
9	Don't know	12	4496	VTQ271A
.	Missing	700	5196	

VTD261B - Long since use dry cleaning solvents?

Variable Name: VTD261B**SAS Label:** Long since use dry cleaning solvents?**English Text:** How long ago, in hours, has it been since {you/she/he} used dry cleaning solvents, visited a dry cleaning shop or wore clothes that had been dry-cleaned within the last week?**English Instructions:** HOURS HARD EDIT: Range - 1 - 48**Target:** Both males and females 12 YEARS - 150 YEARS**Hard Edits:** 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	150	150	
0	Less than one hour	3	153	
77	Refused	0	153	
99	Don't know	1	154	
.	Missing	5042	5196	

VTQ271A - In last 48 hrs, bathe for 5+ minutes?

Variable Name: VTQ271A**SAS Label:** In last 48 hrs, bathe for 5+ minutes?**English Text:** In the last 48 hours, did {you/she/he} take a hot shower or bath for five minutes or longer?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	3537	3537	
2	No	953	4490	VTQ281A
7	Refused	1	4491	VTQ281A
9	Don't know	5	4496	VTQ281A
.	Missing	700	5196	

VTD271B - How long, in hrs, since you bathed?

Variable Name: VTD271B

SAS Label: How long, in hrs, since you bathed?

English Text: How long ago, in hours, has it been since {your/SP's} last shower or hot bath?

English Instructions: HOURS HARD EDIT: Range - 1 - 48

Target: Both males and females 12 YEARS - 150 YEARS

Hard Edits: 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	3530	3530	
0	Less than one hour	5	3535	
77	Refused	0	3535	
99	Don't know	0	3535	
.	Missing	1661	5196	

VTQ281A - In past 48 hrs breathe paint fumes?

Variable Name: VTQ281A**SAS Label:** In past 48 hrs breathe paint fumes?**English Text:** In the last 48 hours, did {you/she/he} breathe fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	147	147	
2	No	4343	4490	VTQ281C
7	Refused	0	4490	VTQ281C
9	Don't know	6	4496	VTQ281C
.	Missing	700	5196	

VTD281B - How long, since breathed paint fumes?

Variable Name: VTD281B

SAS Label: How long, since breathed paint fumes?

English Text: How long ago, in hours, has it been since {you/she/he} breathed fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?

English Instructions: HOURS HARD EDIT: Range - 1 - 48

Target: Both males and females 12 YEARS - 150 YEARS

Hard Edits: 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	145	145	
0	Less than one hour	2	147	
77	Refused	0	147	
99	Don't know	0	147	
.	Missing	5049	5196	

VTQ281C - In past 48 hrs breathe diesel fumes?

Variable Name: VTQ281C**SAS Label:** In past 48 hrs breathe diesel fumes?**English Text:** In the last 48 hours, did {you/she/he} breathe fumes from diesel fuel or kerosene?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	162	162	
2	No	4320	4482	VTQ281E
7	Refused	0	4482	VTQ281E
9	Don't know	14	4496	VTQ281E
.	Missing	700	5196	

VTD281D - How long, since breathed diesel fumes?

Variable Name: VTD281D

SAS Label: How long, since breathed diesel fumes?

English Text: How long ago, in hours, has it been since {you/she/he} breathed fumes from diesel fuel or kerosene?

English Instructions: HARD EDIT: Range - 1 - 48 HOURS

Target: Both males and females 12 YEARS - 150 YEARS

Hard Edits: 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	161	161	
0	Less than one hour	1	162	
77	Refused	0	162	
99	Don't know	0	162	
.	Missing	5034	5196	

VTQ281E - Breathe fingernail polish fumes?

Variable Name: VTQ281E**SAS Label:** Breathe fingernail polish fumes?**English Text:** In the last 48 hours, did {you/she/he} breathe fumes from fingernail polish?**Target:** Both males and females 12 YEARS - 150 YEARS

Code or Value	Value Description	Count	Cumulative	Skip to Item
1	Yes	257	257	
2	No	4239	4496	End of Section
7	Refused	0	4496	End of Section
9	Don't know	0	4496	End of Section
.	Missing	700	5196	

VTD281F - How long, since breathed polish fumes?

Variable Name: VTD281F

SAS Label: How long, since breathed polish fumes?

English Text: How long ago, in hours, has it been since {you/she/he} breathed fumes from fingernail polish?

English Instructions: HOURS HARD EDIT: Range - 1 - 48

Target: Both males and females 12 YEARS - 150 YEARS

Hard Edits: 1 to 48

Code or Value	Value Description	Count	Cumulative	Skip to Item
1 to 48	Range of Values	256	256	
0	Less than one hour	1	257	
77	Refused	0	257	
99	Don't know	0	257	
.	Missing	4939	5196	

Appendix 1. VOLATILE TOXICANT QUESTIONNAIRE (VTQ) VARIABLE
TABLE by CYCLE

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
VTQ210	First, I would like to ask you a few questions about {your/SP's} home. Does {your/her/his} home have an attached garage?	x	x	x	x	x	x	x	x	x
VTQ220	Is the source of water for {your/her/his} home from a private well?	x	x	x	x	x	x	x	x ¹	x ¹
VTQ200A	{Do you/Does she/Does he} currently store paints or fuels inside {your/her/his} home? Include {your/her/his} basement {and attached garage}.		x	x	x	x	x	x	x	x
VTQ230A	{Do you/Does she/Does he} use toilet bowl deodorizers inside {your/her/his} home?	x	x	x	x	x				
VTQ230B	{Do you/Does she/Does he} use moth balls or crystals inside {your/her/his} home?	x	x	x	x	x				
VTQ231A	{Do you/Does she/Does he} currently use moth balls, moth crystals or toilet bowl deodorizers inside {your/her/his} home?						x	x	x	x
VTQ233A	In the last three days, did {you/she/he} inhale smoke from any source for 10 or more minutes?							x	x	x
VTQ233B	When did {you/she/he} last spend 10 or more minutes inhaling smoke?							x	x	x
VTQ240A	Now I am going to ask you a few questions about {your/SP's} activities over the last three days. This means	x	x	x	x	x				

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
	today, yesterday, or the day before yesterday. In the last three days, did {you/she/he} pump gas into a car or other motor vehicle {yourself/hersel									
VTQ240B	How long ago, in hours, did {you/she/he} pump gas into a car?	x	x	x	x	x				
VTQ241A	Now I am going to ask you a few questions about {your/SP's} activities over the last 48 hours. This means today or yesterday. In the last 48 hours, did {you/she/he} cook or bake with natural gas?						x	x	x	x
VTQ241B	Now I am going to ask you a few questions about {your/SP's} activities over the last 48 hours. This means today or yesterday. How long ago, in hours, did {you/she/he} cook or bake with natural gas?						x			
VTQ241bG	How long ago, in hours, did {you/she/he} cook or bake with natural gas?							x	x	x
VTQ241bQ	How long ago, in hours, did {you/she/he} cook or bake with natural gas?							x	x	x
VTQ241bD	How long ago, in hours, did {you/she/he} cook or bake with natural gas?							x	x	x
VTQ241bT	How long ago, in hours, did {you/she/he} cook or bake with natural gas?							x	x	x

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
VTQ244A	In the last 48 hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/ herself/ himself}?						x	x	x	x
VTQ244B	How long ago, in hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/ herself/ himself}?						x			
VTQ244bG	How long ago, in hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/ herself/ himself}?							x	x	x
VTQ244bQ	How long ago, in hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/ herself/ himself}?							x	x	x
VTQ244bD	How long ago, in hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/ herself/ himself}?							x	x	x
VTQ244bT	How long ago, in hours, did {you/she/he} pump gas into a car or other motor vehicle {yourself/ herself/ himself}?							x	x	x
VTQ250A	In the last three days, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?	x	x	x	x	x				
VTQ250B	How long ago, in hours, has it been since {you/she/he} spent time at a swimming pool, in a hot tub, or in a steam room?	x	x	x	x	x				

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
VTQ251A	In the last 48 hours, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?						x	x	x	x
VTQ251B	In the last 48 hours, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?						x			
VTQ251bG	In the last 48 hours, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?							x	x	x
VTQ251bQ	In the last 48 hours, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?							x	x	x
VTQ251bD	In the last 48 hours, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?							x	x	x
VTQ251bT	In the last 48 hours, did {you/she/he} spend any time at a swimming pool, in a hot tub, or in a steam room?							x	x	x
VTQ260A	In the last three days, did {you/she/he} visit a dry cleaning shop or wear clothes that had been dry-cleaned within the last week?	x	x	x	x	x				
VTQ260B	In the last three days, did {you/she/he} spend 10 or more minutes near a person who was smoking a cigarette,	x	x	x	x	x				

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
	cigar, or pipe?									
VTQ261A	In the last 48 hours, did {you/she/he} use dry cleaning solvents, visit a dry cleaning shop or wear clothes that had been dry-cleaned within the last week?						x	x	x	x
VTQ261B	How long ago, in hours, has it been since {you/she/he} used dry cleaning solvents, visited a dry cleaning shop or wore clothes that had been dry-cleaned within the last week?						x			
VTQ261bG	How long ago, in hours, has it been since {you/she/he} used dry cleaning solvents, visited a dry cleaning shop or wore clothes that had been dry-cleaned within the last week?							x	x	x
VTQ261bQ	How long ago, in hours, has it been since {you/she/he} used dry cleaning solvents, visited a dry cleaning shop or wore clothes that had been dry-cleaned within the last week?							x	x	x
VTQ261bD	How long ago, in hours, has it been since {you/she/he} used dry cleaning solvents, visited a dry cleaning shop or wore clothes that had been dry-cleaned within the last week?							x	x	x
VTQ261bT	How long ago, in hours, has it been since {you/she/he} used dry							x	x	x

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
	cleaning solvents, visited a dry cleaning shop or wore clothes that had been dry-cleaned within the last week?									
VTQ265A	In the last 48 hours, did {you/she/he} smoke or spend 10 or more minutes near a person who was smoking a cigarette, cigar, or pipe?						x			
VTQ265B	How long ago, in hours, has it been since {you/she/he} smoked or spent 10 or more minutes near a person who was smoking a cigarette, cigar, or pipe?						x			
VTQ270A	In the last three days, did {you/she/he} take a hot shower or bath for five minutes or longer?	x	x	x	x	x				
VTQ270B	How long ago, in hours, has it been since {your/SP's} last shower or hot bath?	x	x	x	x	x				
VTQ271A	In the last 48 hours, did {you/she/he} take a hot shower or bath for five minutes or longer?						x	x	x	x
VTQ271B	How long ago, in hours, has it been since {your/SP's} last shower or hot bath?						x			
VTQ271bG	How long ago, in hours, has it been since {your/SP's} last shower or hot bath?							x	x	x
VTQ271bQ	How long ago, in hours, has it been since {your/SP's} last shower or hot bath?							x	x	x

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
VTQ271bD	How long ago, in hours, has it been since {your/SP's} last shower or hot bath?							X	X	X
VTQ271bT	How long ago, in hours, has it been since {your/SP's} last shower or hot bath?							X	X	X
VTQ280A	In the last three days, did {you/she/he} breathe fumes from any of the following: Paints?	X	X	X	X	X				
VTQ280B	[In the last three days, did {you/she/he} breathe fumes from any of the following:] Degreasing cleaners?	X	X	X	X	X				
VTQ280C	[In the last three days, did {you/she/he} breathe fumes from any of the following:] Diesel fuel or kerosene?	X	X	X	X	X				
VTQ280D	[In the last three days, did {you/she/he} breathe fumes from any of the following:] Paint thinner, brush cleaner, or furniture stripper?	X	X	X	X	X				
VTQ280E	[In the last three days, did {you/she/he} breathe fumes from any of the following:] Dry-cleaning fluid or spot remover?	X	X	X	X	X				
VTQ280F	[In the last three days, did {you/she/he} breathe fumes from any of the following:] Fingernail polish or fingernail polish remover?	X	X	X	X	X				
VTQ280G	[In the last three days, did {you/she/he} breathe fumes from any of the following:] Glues or	X	X	X	X	X				

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
	adhesives used for hobbies or crafts?									
VTQ280H	[In the last three days, did {you/she/he} breathe fumes from any of the following:] Varnish or stain?	x	x	x						
VTQ281A	In the last 48 hours, did {you/she/he} breathe fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?						x	x	x	x
VTQ281B	How long ago, in hours, has it been since {you/she/he} breathed fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?						x			
VTQ281bG	How long ago, in hours, has it been since {you/she/he} breathed fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?							x	x	x
VTQ281bQ	How long ago, in hours, has it been since {you/she/he} breathed fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?							x	x	x
VTQ281bD	How long ago, in hours, has it been since {you/she/he} breathed fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?							x	x	x

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
VTQ281bT	How long ago, in hours, has it been since {you/she/he} breathed fumes from freshly painted indoor surfaces, paints, paint thinner, or varnish?							X	X	X
VTQ281C	In the last 48 hours, did {you/she/he} breathe fumes from diesel fuel or kerosene?						X	X	X	X
VTQ281D	How long ago, in hours, has it been since {you/she/he} breathed fumes from diesel fuel or kerosene?						X			
VTQ281dG	How long ago, in hours, has it been since {you/she/he} breathed fumes from diesel fuel or kerosene?							X	X	X
VTQ281dQ	How long ago, in hours, has it been since {you/she/he} breathed fumes from diesel fuel or kerosene?							X	X	X
VTQ281dD	How long ago, in hours, has it been since {you/she/he} breathed fumes from diesel fuel or kerosene?							X	X	X
VTQ281dT	How long ago, in hours, has it been since {you/she/he} breathed fumes from diesel fuel or kerosene?							X	X	X
VTQ281E	In the last 48 hours, did {you/she/he} breathe fumes from fingernail polish?						X	X	X	X
VTQ281F	How long ago, in hours, has it been since {you/she/he} breathed fumes from fingernail						X			

Variable Name	Questionnaire - English Text	2003-2004	2005-2006	2007-2008	2009-2010	2011-2012	2013-2014	2015-2016	2017-2018	2017-Mar2020
	polish?									
VTQ281fG	How long ago, in hours, has it been since {you/she/he} breathed fumes from fingernail polish?							x	x	x
VTQ281fQ	How long ago, in hours, has it been since {you/she/he} breathed fumes from fingernail polish?							x	x	x
VTQ281fD	How long ago, in hours, has it been since {you/she/he} breathed fumes from fingernail polish?							x	x	x
VTQ281fT	How long ago, in hours, has it been since {you/she/he} breathed fumes from fingernail polish?							x	x	x

¹ Access available through the [NCHS Research Data Center \(RDC\)](#).