



Total Volatile Organic Compounds

This is a list of chemicals that can be detected in a High Sensitivity Scan.

The scan can be performed on an Air Sample or a Material Sample.

Air Sample

The scan requires the sampling of an air stream for 4 hours. The detection limit is between 1PPM (part per million) and 1 PPB (part per billion) depending on the specific compound.

Material Sample

The material is exposed to high temperature in order to drive off any Volatile Compounds which are then analyzed by GCMS.

If the test is to be used in a lawsuit, multiple sampling will be required depending on the situation.

The sampling media is time sensitive; therefore, this test may require scheduling five days in advance.

The test is divided into two areas: Quantitative and Semi quantitative.

Quantitative values are expressed in values above 10 nanograms or one part per billion.

Semi quantitative results are expressed in their presence or absence and then low or high. Should the specific chemical require a quantitative result, a specific test will be performed for that chemical.

AIR SURVEY ANALYSES List of Compounds

Method	Method Detection Limits			
	Quantitative A	Quantitative B	Quantitative C	Semiquantitative
TDT Air Scan [®] AS002-MS	10 ng	-	-	100 ng
TDT Air Scan [®] AS002-IR	-	100-1000 ng	-	-
High Sensitivity TDT Air Scan [®] AS002-HS	10 ng	100-1000 ng	-	100 ng
Canister Air Scan SC002	200 ng/L	-	-	-
Tedlar [®] Bag Air Scan TB002	-	200-1500 ng/L	200-1500 ng/L	-

Quantitative List A

Benzene	1,2-Dibromo-3-chloropropane ^F	1,1-Dichloropropene	Toluene
Bromobenzene	Dibromomethane	1,3-Dichloropropene (cis)	1,2,3-Trichlorobenzene ²
Bromochloromethane	1,2-Dibromoethane	1,3-Dichloropropene (trans)	1,2,4-Trichlorobenzene ²
Bromodichloromethane	1,2-Dichlorobenzene ^F	Ethylbenzene	1,1,1-Trichloroethane
Bromoform	1,3-Dichlorobenzene ^F	Hexachlorobutadiene ²	1,1,2-Trichloroethane
n-Butylbenzene ²	1,4-Dichlorobenzene ^F	Isopropylbenzene	Trichloroethane
sec-Butylbenzene	1,1-Dichloroethane	p-Isopropyltoluene	1,2,3-Trichloropropane
tert-Butylbenzene	1,2-Dichloroethane	Methylene Chloride	1,2,3-Trimethylbenzene
Carbon Tetrachloride	1,1-Dichloroethane	Naphthalene ^F	1,2,4-Trimethylbenzene
Chlorobenzene	1,2-Dichloroethane (cis)	n-Propylbenzene	1,3,5-Trimethylbenzene
Chlorodibromomethane	1,2-Dichloroethane (trans)	Styrene	Vinyl Chloride
Chloroform	1,2-Dichloropropane	1,1,1,2-Tetrachloroethane	m & p-Xylene
2-Chlorotoluene	1,3-Dichloropropane	1,1,2,2-Tetrachloroethane	o-Xylene
4-Chlorotoluene	2,2-Dichloropropane	Tetrachloroethene	

Quantitative List B

Acetaldehyde [*]	Isopropanol [*] (2-Propanol)	Methanol	Nitroethane
Acetone [*] (2-Propanone)	Ethyl-3-ethoxypropionate	Methyl acetate [*]	Nitromethane
Acetonitrile [*]	Ethyl lactate	Methyl formate	2-Pentanone [*]
Butadiene [*]	Ethyl vinyl ether	Methyl vinyl ether	1-Pentene
1-Butanol [*]	Ethanol [*]	Methyl vinyl ketone	2-Pentene
2-Butanone [*] (MEK)	Formaldehyde	3-Methyl-1-butene	Propane
n-Butylacetate [*]	Furan [*]	2-Methyl-1-pentene	n-Propanol [*]
Chlorodifluoromethane [*]	2-Heptanone [*]	2-Methyl-2-butene	Propionaldehyde
Cyclohexane [*]	Isobutane [*]	4-Methyl-2-pentanone [*] (MIBK)	Propylene
Cyclohexene [*]	Isobutyl acetate [*]	2-Methyl-2-pentene	m-Pyrol
Cyclopentane [*]	Isobutyl ketone [*]	4-Methyl-2-pentene	Vinyl acetate [*]
1,2-Dichlorotetrafluoroethane [*]	Isobutylene	2-Methylpentane	Vinylidene chloride
1,1-Dimethyl hydrazine	Isoprene	3-Methylpentane	