



Analysis of Sorbisense cartridges

Eurofins Environment DK offers as preferred analytical laboratory for Sorbisense analysis of samplers and cartridges. The analytical packages cover a broad range of potential pollutants such as metals, aromatic hydrocarbons, aliphatic hydrocarbons, chlorinated hydrocarbons, PCB's, phthalates, nonylphenols etc.

The table below gives an overview of the individual compounds and packages. Accredited parameters are marked by *. The stated detection limits assume 250 mL sampled water volume.

Sorbicell VOC (organics) has two adsorbent zones. If both zones are analyzed (zone 1+2) the second zone can be used to control for sorption capacity.

In case other compounds are needed please contact Eurofins.

Packages				
Name	Compounds	Zone 1 Codes	Zone 1+2 Codes	Flux Codes
5 heavy metals	Chromium* Copper* Lead* Nickel* Zinc*	PCASD	-	-
7 Heavy metals	Cadmium* Chromium* Copper* Lead* Mercury* Nickel* Zinc*	PCASE	-	-
BTEX	Benzene* Ethylbenzene* Toluene* o-Xylene* m+p Xylene*	PCASL	PCASG	-
BTEXNM	Benzene* Ethylbenzene* MTBE* Naphtalene* Toluene* o-Xylene* m+p Xylene*	PCASK	PCAS8	PCA8M
VOCI	1,2-Dibromoethane* 1,2-Dichloroethane* cis-1,1-Dichloroethene* trans-1,1-Dichloroethene* 1,1-Dichloroethene* 1,2-Dichloropropane* Tetrachloroethene* Tetrachloromethane* Trichloroethene* 1,1,1-Trichloroethane* 1,1,2-Trichloroethane* Vinylchloride*	PCASM	PCASB	PCA8N
PAH	Acenaphthene* Acenaphthylene* Anthracene* Benzo(a)anthracene* Benzo(a)pyrene* Benzo(b)fluoranthene* Benzo(ghi)perylene* Benzo(k)fluoranthene* Chrysene* Dibenzo(a,h)anthracene* Fluoranthene* Fluorene* Indeno(1,2,3-cd)pyrene* Naphthalene* Phenanthrene* Pyrene*	PCASQ	PCASR	PCA8U
Alifatic hydrocarbons / oil	C6H6-C10* C10-C15* C15-C20* C20-C35* C35-C40* Total C6H6-C40*	PCASJ	PCAS9	PCA8L
PCB	PCB 28* PCB 52* PCB 101* PCB 118* PCB 138* PCB 153* PCB 180*	PCASN	PCASP	PCA8P
Phenols	Phenol* 2-methylphenol* 3-methylphenol* 4-methylphenol* 2,3-dimethylphenol* 2,4-dimethylphenol* 2,5-dimethylphenol* 2,6-dimethylphenol* 3,4-dimethylphenol* 3,5-dimethylphenol*	PCA8Q	PCA8R	PCA8V



Aromatic hydrocarbons			
Name	Zone 1 Codes	Zone 1+2 Codes	Detection Limit
Benzene*	CAA6G	CA17U	0.2 µg/L
n-Butylbenzene	#	#	0.4 µg/L
sec-Butylbenzene	#	#	0.4 µg/L
t-Butylbenzene*	CAA6R	CA18H	0.4 µg/L
Cumene/ Isopropylbenzen	#	#	0.2 µg/L
Ethylbenzene*	CAA6L	CA17V	0.2 µg/L
Naphthalene (BTEXN)*	CAA6P	CA17Z	0.2 µg/L
Naphthalene (PAH)*	CAA1C	CAA3M	0.2 µg/L
MTBE*	CAA6N	CA17P	0.2 µg/L
Propylbenzene	#	#	0.4 µg/L
Styrene	CA1LV	VA1LW	0.4 µg/L
Toluene*	CAA6U	CA17S	2.8 µg/L
1,2,4-Trimethylbenzene*	CAA5Z	CA18G	0.2 µg/L
1,3,5-Trimethylbenzene*	CAA6D	CA18F	0.2 µg/L
m+p Xylene*	CAA6M	CA17W	0.8 µg/L
o-Xylene*	CAA6Q	CA17X	0.4 µg/L
p-Cymene* 4-isopropyltoluene	CAA6F	CA18I	0.4 µg/L

Please contact Eurofins for further information



Eurofins Miljø A/S

Tlf. 70 22 42 56
Fax 70 22 42 55

miljo@eurofins.dk
www.eurofins.dk

Polyaromatic hydrocarbons (PAH)

Name	Zone 1 Codes	Zone 1+2 Codes	Detection Limit
Acenaphthene*	CAA1E	CAA3P	0.02 µg/L
Acenaphthylene*	CAA1D	CAA3N	0.02 µg/L
Anthracene*	CAA1H	CAA3S	0.02 µg/L
Benzo(a)anthracene*	CAA1K	CAA3V	0.02 µg/L
Benzo(a)pyrene*	CAA1Q	CAA4A	0.02 µg/L
Benzo(b)fluoranthene*	CAA1M	CAA3X	0.02 µg/L
Benzo(ghi)perylene*	CAA1T	CAA4D	0.02 µg/L
Benzo(k)fluoranthene*	CAA1N	CAA3Y	0.02 µg/L
Chrysene*	CAA1L	CAA3W	0.02 µg/L
Dibenzo(a,h)anthracene*	CAA1S	CAA4C	0.02 µg/L
Fluoranthene*	CAA1I	CAA3T	0.02 µg/L
Fluorene*	CAA1F	CAA3Q	0.02 µg/L
Indeno(1,2,3-cd)pyrene*	CAA1R	CAA4B	0.02 µg/L
Naphthalene (BTEXN)*	CAA6P	CA17Z	0.2 µg/L
Naphthalene (PAH)*	CAA1C	CAA3M	0.2 µg/L
Phenanthrene*	CAA1G	CAA3R	0.02 µg/L
Pyrene*	CAA1J	CAA3U	0.02 µg/L

Volatile organic compounds (VOC)

Name	Zone 1 Codes	Zone 1+2 Codes	Detection Limit
Ethanol	#	#	0.2 mg/L
Bromodichloromethane	#	#	0.2 µg/L
Bromoform	#	#	0.2 µg/L
1-Chlorobutane	#	#	0.2 µg/L
Chloroethane*	CAA6I	CA18L	0.2 µg/L
Dibromochloromethane	#	#	0.2 µg/L
Dibromomethane	#	#	0.2 µg/L
Dichlorobromomethane	#	#	0.2 µg/L
1,2-Dibromoethane*	CAA6A	CA17R	0.2 µg/L
1,2-Dibromo-3-chloropropane	#	#	0.2 µg/L
1,2-Dichlorobenzene	#	#	0.2 µg/L
1,3-Dichlorobenzene	#	#	0.2 µg/L
1,4-Dichlorobenzene	#	#	0.2 µg/L
1,1-Dichloroethane*	CAA5X	CA18D	1.2 µg/L
1,2-Dichloroethane*	CAA6B	CA17M	1.2 µg/L
cis-1,2-Dichloroethene*	CAA6K	CA17N	0.2 µg/L
trans-1,2-Dichloroethene*	CAA6V	CA17Y	0.2 µg/L
1,1-Dichloroethene*	CAA5Y	CA18K	0.2 µg/L
1,2-Dichloropropane*	CAA6C	CA17K	0.2 µg/L
1,3-Dichloropropane	#	#	0.2 µg/L
2,2-Dichloropropane	#	#	0.2 µg/L
1,1-Dichloropropene	#	#	0.2 µg/L
cis-1,3-Dichloropropene	#	#	0.2 µg/L
trans-1,3-Dichloropropene	#	#	0.2 µg/L
Chlorobenzene	#	#	0.2 µg/L
2-Chlorotoluene	#	#	0.4 µg/L
4-Chlorotoluene	#	#	0.4 µg/L
Hexachlorobutadiene	#	#	0.2 µg/L
1,1,1,2-Tetrachloroethane	#	#	0.2 µg/L
Tetrachloroethene*	CAA6S	CA18J	0.4 µg/L
Tetrachloromethane*	CAA6T	CA18E	0.2 µg/L
1,2,3-Trichlorobenzene	#	#	0.2 µg/L
1,2,4-Trichlorobenzene	#	#	0.2 µg/L
Trichloroethene*	CAA6W	CA18B	0.2 µg/L
Trichloromethane*	CAA6J	CA17T	0.2 µg/L
1,1,1-Trichloroethane*	CAA5V	CA18A	0.2 µg/L
1,1,2-Trichloroethane*	CAA5W	CA18C	0.4 µg/L
1,2,3-Trichloropropane	#	#	0.2 µg/L
Vinylchloride*	CAA6X	CA17L	0.4 µg/L
Styrene	CA1LV	VA1LW	0.1 µg/L

Polychlorinated biphenyls (PCB)

Name	Zone 1 Codes	Zone 1+2 Codes	Detection Limit
PCB 28*	CAA1Z	CAA4J	0.08 µg/L
PCB 52*	CAA2A	CAA4K	0.08 µg/L
PCB 101*	CAA2B	CAA4L	0.08 µg/L
PCB 118*	CAA2C	CAA4M	0.08 µg/L
PCB 138*	CAA2D	CAA4N	0.08 µg/L
PCB 153*	CAA2E	CAA4P	0.08 µg/L
PCB 180*	CAA2F	CAA4Q	0.08 µg/L

Nonylphenols and – ethoxylates

Name	Zone 1 Codes	Zone 1+2 Codes	Detection Limit
Nonylphenol*	CAA1W	CAA4G	1.6 µg/L
Nonylphenol monoethoxylates*	CAA1X	CAA4H	3.2 µg/L
Nonylphenol diethoxylates*	CAA1Y	CAA4I	3.2 µg/L

Phenols

Name	Zone 1 Codes	Zone 1+2 Codes	Detection Limit
Phenol*	CA67B-2	CA67W-2	0.15 µg/L
2-methylphenol*	CA67C-2	CA67X-2	0.02 µg/L
3-methylphenol*	CA67D-2	CA67Y-2	0.02 µg/L
4-methylphenol*	CA67E-2	CA67Z-2	0.25 µg/L
2,3-dimethylphenol*	CA67F-2	CA680-2	0.02 µg/L
2,4-dimethylphenol*	CA67G-2	CA681-2	0.02 µg/L
2,5-dimethylphenol*	CA67H-2	CA682-2	0.02 µg/L
2,6-dimethylphenol*	CA67I-2	CA683-2	0.02 µg/L
3,4-dimethylphenol*	CA67J-2	CA684-2	0.02 µg/L
3,5-dimethylphenol*	CA67K-2	CA685-2	0.02 µg/L

Phthalates

Name	Zone 1 Codes	Zone 1+2 Codes	Detection Limit
DEHP*	CAA1V	CAA4F	1.6 µg/L

Inorganic parameters

Name	Zone 1 Codes	Detection Limit
Ammonia-ammonium-N	CA1HX	50 µg
Nitrite-nitrate-N	CA1JG	50 µg
Orthophosphate-P	CA1JJ	5 µg
Sulfate	CA1M6	50 µg

Metals and heavy metals

Name	Zone 1 Codes	Detection Limit
Aluminium (Al)	CA1LN	8 µg/L
Antimony (Sb)	CA56I	0.4 µg/L
Arsenic (As)	CA1LP	0.8 µg/L
Barium (Ba)	CA56G	8 µg/L
Beryllium (Be)	CA5AE	8 µg/L
Boron (B)	CA5AD	80 µg/L
Cadmium (Cd)*	CA51J	0.08 µg/L
Calcium (Ca)	CA59C	200 µg/L
Chromium (Cr)*	CA51L	3 µg/L
Cobalt (Co)	CA52R	0.8 µg/L
Copper (Cu)*	CA51M	0.8 µg/L
Iron (Fe)	CA52T	2 µg/L
Lead (Pb)*	CA51H	0.4 µg/L
Lithium (Li)	CA5AF	20 µg/L
Magnesium (Mg)	CA59G	200 µg/L
Manganese (Mn)	CA57A	2 µg/L
Mercury (Hg)*	CA51P	0.02 µg/L
Molybdenum (Mo)	CA56E	8 µg/L
Nickel (Ni)*	CA51Q	0.8 µg/L
Phosphorous (P)	CA5AN	80 µg/L
Potassium (K)	CA59E	200 µg/L
Selenium (Se)	CA5AG	4 µg/L
Sodium (Na)	CA59A	200 µg/L
Strontium (Sr)	CA5AM	4 µg/L
Titanium (Ti)	CA5AK	4 µg/L
Tin (Sn)	CA5AK	4 µg/L
Tungsten (W)	CA5AI	8 µg/L
Uranium (U)	CA5AJ	0.4 µg/L
Vanadium (V)	CA1LM	2 µg/L
Yttrium (Y)	CA5AL	2 µg/L
Zinc (Zn)*	CA51R	2 µg/L



Please contact Eurofins for further information