

"Vals positieven" in monsters uit de rivier de Elbe?

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Inhoudsopgave

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1 Inleiding

Het Duitse overheidslaboratorium dat de verantwoordelijkheid heeft voor het meten van OPBs en ONBs in de rivier de Elbe heeft het vermoeden dat er vals positieve resultaten worden gerapporteerd. De monsters worden geanalyseerd met behulp van GC-NPD. Een NPD detector een detector die reageert op alle stikstof (N) en fosfor (P) verbindingen die in de detector terechtkomen.

RIZA IMLO heeft in 1998 geconstateerd dat zij gedurende enige tijd vals positieve resultaten heeft gerapporteerd. Het feit dat er vals positieve resultaten werden gerapporteerd werd veroorzaakt door de NPD detector. Om in de toekomst het rapporteren van vals positieve resultaten te voorkomen, is RIZA IMLO overgestapt op een GC MS analyse van de organo- stikstof- bestrijdingsmiddelen. Hierbij wordt gebruik gemaakt van PTV voor het injecteren van grote volumes.

Het Duitse laboratorium heeft op basis van het rapport dat het RIZA uitgebracht heeft naar aanleiding van de vals positieve resultaten, RIZA IMLO verzocht om een aantal watermonsters uit de rivier de Elbe te analyseren. Zij hopen op deze wijze antwoord te krijgen op de vraag of zij wel of niet vals positieve resultaten rapporteren.

2 Werkwijze

Het Duitse laboratorium heeft een achttal monsterextracten aan het RIZA toegestuurd. Zij hebben 1 liter watermonster over een C18 SPE kolom geleid. Vervolgens zijn de componenten geëluëerd met ethylacetaat. Waarna het extract werd ingedampt tot 0,5 ml.

IMLO heeft het extract vervolgens omgezet in dichloormethaan door van het extract 250 µl te nemen. Hier circa 8 ml dichloormethaan en 100 µl interne standaard oplossing (Atrazine-D5) toe te voegen. Daarna werd het extract weer ingedampt tot 0,5 ml. Dit extract werd vervolgens met behulp van LV/PTV-GC-MS geanalyseerd.

Voor de kwantificering werd gebruik gemaakt van de werkstandaard die standaard voor de OPB en ONB analyse wordt gebruikt. Daarnaast werd aldicarbulsulfon apart ingewogen als standaard. Omdat vanuit het Duitse laboratorium specifiek gevraagd werd naar aldicarbulsulfon werd van deze component een aparte standaard oplossing gemaakt.

Doelstoffen

dichloorvos	disulfoton	heptenofos
mevinfos	malathion	chloorfenvinfos
ethoprofos	tolclofos-methyl	chloorpyrifos
demeton-s	fenthion	
trifenyfosfaat	coumafos	
dimethoat	fenitrothion	azinfos-ethyl
diazinon	parathion-ethyl	pyrazofos
parathion-methyl	triazofos	azinfos-methyl
simazine	atrazine	prometryn
terbutylazine	chloridazon	metamitron
terbutryn	propiconazol	
desethylatrazine	propazine	
alachloor	metolachloor	
trifluralin	metazachloor	di-2-ethylhexylftalaat
pirimicarb	carbaryl	
aldicarbulsulfon ¹		

De extracten zijn vervolgens door de GC MS database van IMLO gehaald. In deze database zijn meer dan 3200 componenten opgenomen op basis van Kovatsindex en massaspectrum.

¹ Niet in de werkstandaard van NPBM analyse

3 Resultaten & Discussie

3.1 Aldicarbulfon

Het blijkt niet mogelijk om aldicarbulfon te meten met LV/PTV-GC-MS. Noch in de standaard noch in de monsters wordt deze component aangetroffen. Vermoedelijk wordt aldicarbulfon afgebroken tijdens de PTV injectie. Het Duitse laboratorium bevestigt dat ook zij problemen hebben met de GC-MS analyse van deze component. Zij zullen in de toekomst waarschijnlijk LC-MS-MS gaan gebruiken voor de analyse van deze component. Er kan dus niet worden bevestigd of ontkend dat het gaat om een vals positief resultaat. In het geval er voor de overige componenten wel wordt geconcludeerd dat er vals positieve resultaten zijn gerapporteerd, mogen ook vraagtekens worden gezet bij deze component.

3.2 Gehaltes gemeten in de watermonsters uit de rivier de Elbe

In de tabel op de volgende pagina zijn zowel de resultaten van IMLO (bovenste getal) als de resultaten van het Duitse laboratorium weergegeven (onderste getal)

<"getal" betekent dat een component of niet werd aangetroffen of dat de concentratie kleiner is dan de detectielimiet, waarbij "getal" de detectielimiet is zoals deze bepaald is tijdens de validatie in augustus 2000 [1] Normaal gesproken worden concentraties alleen gerapporteerd indien ze groter dan de rapportagegrens zijn, voor dit onderzoek is een uitzondering gemaakt.

Het lijkt erop dat het Duitse laboratorium inderdaad af en toe vals positieve resultaten rapporteert. In een aantal gevallen wordt er een concentratie gerapporteerd die een factor 10 hoger ligt dan de detectiegrens van RIZA IMLO. Terwijl RIZA IMLO in deze gevallen dan kleiner dan detectiegrens rapporteert. Zie hiervoor de vetgedrukte getallen in de tabel op de volgende pagina.

Op basis van een massaspectrum kan met veel meer zekerheid worden vastgesteld of de piek in het chromatogram de doelstof is dan met een NPD detector mogelijk is.

3.3 Resultaten GC-MS database

De datafile van de LV/PTV-GC-MS analyse van het extract wordt in de database ingelezen. Met behulp van de Kovatsindex en het massaspectrum bepaalt de database welke componenten in het monsters aanwezig zijn. In dit geval werden naast de hieronder gerapporteerde componenten, voornamelijk alkanen, weekmakers, fosfaten en esters aangetroffen.

De database heeft in de extracten geen doelstoffen toegekend met een concentratie hoger dan de detectiegrens die handmatig niet waren toegekend. Dit bevestigt nogmaals dat het Duitse laboratorium waarschijnlijk vals positieve resultaten rapporteert.

Tabel 1. Gehaltes in de monsters uit de rivier de ELBE gerapporteerd door IMLO (bovenste getal) en het Duitse laboratorium (onderste getal)

Componenten	Monster							
	01/1280	01/1278	01/1276	01/1275	01/1274	01/1273	01/1271	01/1270
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Alachlor	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
	(0,02)	(0,02)	(<0,02)	(0,07)	(<0,02)	(<0,02)	(<0,02)	(<0,02)
Atrazine	0,012	0,009	<0,004	0,005	0,021	0,070	0,149	0,075
	(0,008)	(0,009)	(0,09)	(0,02)	(0,02)	(0,1)	(0,2)	(0,09)
Chlorfenvinphos	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004
	(<0,0007)	(<0,0007)	(<0,0007)	(<0,0007)	(<0,0007)	(<0,0007)	(<0,0007)	(<0,0007)
Chloridazon	<0,068	<0,068	<0,068	<0,068	<0,068	<0,068	<0,068	<0,068
	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)
Desethylatrazin	<0,004	0,004	<0,004	<0,004	0,010	0,012	0,017	0,016
	(<0,003)	(<0,003)	(<0,003)	(<0,003)	(<0,003)	(<0,003)	(<0,003)	(<0,003)
Diazinon	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006
	(<0,001)	(0,004)	(0,001)	(<0,001)	(<0,001)	(<0,001)	(<0,001)	(<0,001)
Dichlorvos	<0,015	<0,015	<0,015	<0,015	<0,015	<0,015	<0,015	<0,015
	(0,001)	(<0,0005)	(<0,0005)	(<0,0005)	(<0,0005)	(<0,0005)	(0,0009)	(<0,0005)
Dimethoat	<0,010	<0,010	<0,010	<0,010	<0,010	<0,010	<0,010	<0,010
	(<0,0009)	(<0,0009)	(0,002)	(<0,0009)	(<0,0009)	(<0,0009)	(<0,0009)	(<0,0009)
Fenitrothion	<0,005	<0,005	<0,005	<0,005	<0,005	<0,005	0,014	<0,005
	(<0,0006)	(<0,0006)	(<0,0006)	(<0,0006)	(<0,0006)	(<0,0006)	(0,002)	(<0,0006)
Fenthion	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004
	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)
Malathion	<0,008	<0,008	<0,008	<0,008	<0,008	<0,008	<0,008	<0,008
	(<0,002)	(<0,002)	(<0,002)	(<0,002)	(<0,002)	(<0,002)	(<0,002)	(<0,002)
Metazachlor	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007	<0,007
	(<0,006)	(<0,006)	(<0,006)	(<0,006)	(<0,006)	(0,01)	(<0,006)	(0,03)
Metolachlor	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006	0,0216	0,019
	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)	(<0,02)
Mevinphos	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006
	(0,006)	(<0,0006)	(0,002)	(<0,0006)	(<0,0006)	(<0,0006)	(<0,0006)	(0,001)
Parathion-ethyl	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004	<0,004
	(<0,0004)	(<0,0004)	(<0,0004)	(<0,0004)	(<0,0004)	(<0,0004)	(<0,0004)	(<0,0004)
Parathion-methyl	<0,078	<0,078	<0,078	<0,078	<0,078	<0,078	<0,078	<0,078
	(0,0009)	(<0,0008)	(<0,0008)	(<0,0008)	(0,0009)	(0,0008)	(<0,0008)	(<0,0008)
Pirimicarb	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003	<0,003
	(<0,005)	(<0,005)	(<0,005)	(<0,005)	(<0,005)	(<0,005)	(<0,005)	(<0,005)
Prometryn	<0,010	<0,010	<0,010	<0,010	0,013	<0,010	0,049	<0,010
	(0,07)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(0,1)	(<0,01)
Propazin	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006	<0,006
	(<0,003)	(<0,003)	(0,01)	(<0,003)	(0,01)	(0,01)	(<0,003)	(<0,003)
Simazin	0,008	<0,004	<0,004	0,013	<0,004	<0,004	0,029	0,005
	(0,005)	(<0,003)	(<0,003)	(0,009)	(<0,003)	(0,005)	(0,03)	(<0,003)
Terbutylazin	0,102	<0,006	<0,006	<0,006	0,020	0,011	0,016	0,014
	(0,07)	(<0,004)	(0,07)	(0,01)	(0,02)	(0,007)	(0,01)	(0,01)
Trifluralin	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002	<0,002
	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)	(<0,01)

* Metamitron, Aldicarbulsulfon, Azinfos-Methyl, Azinfos-Ethyl, Demeton-S en Disulfonton waren wel aanwezig in standaard maar werden niet aangetroffen in chromatogram.

4 Conclusie

Het lijkt erop dat het Duitse laboratorium inderdaad vals positieve resultaten rapporteert. In enkele gevallen worden gehalten gerapporteerd die een factor 10 hoger liggen dan de detectiegrens van RIZA IMLO, terwijl deze laatste kleiner dan detectiegrens rapporteert. Bij RIZA IMLO wordt gebruik gemaakt van MS detectie terwijl het Duitse laboratorium gebruik maakt van NPD detectie. Een NPD detector genereert een piek voor elke component die fosfor of stikstof bevat. Dit betekent dan echter niet dat het ook de doelstof betreft. Met een MS detector kan op basis van het massaspectrum met meer zekerheid wordt vastgesteld of de piek aan de doelstof toebehoort.

5 Aanbevelingen

RIZA IMLO heeft het Duitse laboratorium aangeraden niet langer gebruik te maken van NPD detectie voor de analyse van OPBs en ONBs in de watermonsters. De kans op een vals positief resultaat is hiermee te groot. Zij raadt het Duitse laboratorium aan om de methode te veranderen en de watermonsters ook met GC-MS te gaan analyseren. Als gevolg van een verlaagde respons van de GC-MS zal een groot volume injectie noodzakelijk zijn. Zie de Bijlage voor een reactie van dhr. Stachel.

6 Referenties

- [1] Validatie van de analyse van fosfor- en stikstofbestrijdingsmiddelen en matig vluchtige stoffen in oppervlaktewater met LV/PTV-GC-MS

7 Bijlagen

7.1 Reactie van dhr. Stachel op de resultaten

Dear Mr. Steketee,

the data and the database on CD arrived yesterday. I'll have a look to the database in the next time.

Thank you to all members of the team who worked on our problem:

Mrs. de Boer,
Mr. van Delden,
Wietske de Haan,
Mr. Staeb,

and of course yourself.

Your results will help us for the validation of analytical results in the past and maybe in future. In consequence of your results I'm sure, that there were false positives for some pesticides made by the German lab.

In Germany many labs analyze N- and P-pesticides by the standard method DIN EN ISO 10695 (only 12 compounds) with 2 columns of different polarity and GC-NPD. In this standard method for the verification of the results it's "allowed" to analyze with a mass detector. That's the wrong way to get robust results I think. But I'm hopeful to convince the chemist from the German lab to control own "positive" results by a mass detector.

Kind regards from the Wassergütestelle Elbe - of course I involved my colleagues in our project. Please let me know if you want to have any informations from the River Elbe, analytical results of "new compounds", results of ecological studies or some thing else.

Best regards,

B. Stachel

7.2 GC-MS database resultaten monster NP 1270-8

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP 1270-8	methylcaprylaat	CPSi5	1104	10,200	0,228	Rel_Area	228421	0	DB 16-1-02
NP 1270-8	hexeen-2, 3,5,5-trimethyl-	CPSi5	1156	11,360	1,111	Rel_Area	1110700	0	DB 16-1-02
NP 1270-8	benzene, (3-chloropropyl)-	CPSi5	1187	12,140	0,442	Rel_Area	441675	0	DB 16-1-02
NP 1270-8	benzene, (3-chloropropyl)-	CPSi5	1194	12,320	13,359	Rel_Area	13358614	0	DB 16-1-02
NP 1270-8	1,4-benzeendiamine	CPSi5	1226	13,180	0,272	Rel_Area	271676	0	DB 16-1-02
NP 1270-8	isopropylbenzooat	CPSi5	1244	13,700	4,048	Rel_Area	4047589	0	DB 16-1-02
NP 1270-8	benzene, hexyl-	CPSi5	1246	13,740	3,571	Rel_Area	3571374	0	DB 16-1-02
NP 1270-8	isopropylbenzooat	CPSi5	1263	14,230	0,546	Rel_Area	546151	0	DB 16-1-02
NP 1270-8	propanol-2, 2-methyl-4-fenyl-	CPSi5	1288	15,020	0,087	Rel_Area	87454	0	DB 16-1-02
NP 1270-8	ethylbenzooat, 3-chloor-	CPSi5	1292	15,160	0,125	Rel_Area	125465	0	DB 16-1-02
NP 1270-8	isobenzofuranon	CPSi5	1297	15,310	1,373	Rel_Area	1373092	0	DB 16-1-02
NP 1270-8	mevinphos	CPSi5	1382	18,300	0,501	Rel_Area	501194	0	DB 16-1-02
NP 1270-8	naphthalene, 2-ethenyl-	CPSi5	1391	18,640	4,154	Rel_Area	4153860	0	DB 16-1-02
NP 1270-8	biphenyl, 4-methyl- (of isom)	CPSi5	1399	18,920	1,36	Rel_Area	1359822	0	DB 16-1-02
NP 1270-8	benzopyran-2-on	CPSi5	1417	19,150	0,797	Rel_Area	797252	0	DB 16-1-02
NP 1270-8	benzoëzuur, 2-(1-oxopropyl)-, methyl ester	CPSi5	1427	19,290	2,245	Rel_Area	2245429	0	DB 16-1-02
NP 1270-8	ethanone, 1-(2,5-dimethoxyphenyl)-	CPSi5	1468	19,830	3,915	Rel_Area	3915033	0	DB 16-1-02
NP 1270-8	butylated hydroxytoluene	CPSi5	1505	20,350	21,923	Rel_Area	21922518	0	DB 16-1-02
NP 1270-8	calameneen	CPSi5	1527	20,650	0,462	Rel_Area	461977	0	DB 16-1-02
NP 1270-8	phthalic acid, diethyl ester	CPSi5	1558	21,040	15,393	Rel_Area	15392676	0	DB 16-1-02
NP 1270-8	1-Hexen-3-one, 5-methyl-1-phenyl-	CPSi5	1569	21,160	0,543	Rel_Area	543413	0	DB 16-1-02
NP 1270-8	phenol, 2-(1-methylethoxy)-, methylcarbamate	CPSi5	1574	21,230	0,133	Rel_Area	132973	0	DB 16-1-02
NP 1270-8	phenol, 4-(1,1,3,3-tetramethylbutyl)-	CPSi5	1595	21,460	4,961	Rel_Area	4960879	0	DB 16-1-02
NP 1270-8	hydrazine, 1,1-difeny-	CPSi5	1599	21,510	5,15	Rel_Area	5150264	0	DB 16-1-02
NP 1270-8	phosphoric acid tributyl ester	CPSi5	1612	21,690	4,235	Rel_Area	4234975	0	DB 16-1-02
NP 1270-8	cyclopentaanzijnzuur, 3-oxo-2-pentyl-, methylest	CPSi5	1621	21,790	0,223	Rel_Area	222741	0	DB 16-1-02
NP 1270-8	benzeen, (1-butylheptyl)-	CPSi5	1642	21,980	0,392	Rel_Area	392407	0	DB 16-1-02
NP 1270-8	bicyclo[3,1,1]heptaan-2-on, 3,6,6-trimethyl-	CPSi5	1657	22,120	0,455	Rel_Area	455463	0	DB 16-1-02
NP 1270-8	cyclopentaanzijnzuur, 3-oxo-2-pentyl-, methylest	CPSi5	1624	22,520	2,792	Rel_Area	2791577	0	DB 16-1-02
NP 1270-8	heptadecaan	CPSi5	1694	22,620	1,219	Rel_Area	1218759	0	DB 16-1-02
NP 1270-8	tetradecaan, 2-methyl-	CPSi5	1751	23,340	0,714	Rel_Area	713743	0	DB 16-1-02
NP 1270-8	octadecaan	CPSi5	1811	23,860	0,828	Rel_Area	828341	0	DB 16-1-02
NP 1270-8	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSi5	1849	24,290	7,377	Rel_Area	7376681	0	DB 16-1-02
NP 1270-8	dibutyl phthalate	CPSi5	1933	25,050	285,131	Rel_Area	285130564	0	DB 16-1-02
NP 1270-8	fenol, 2,4,6-tri-tert-butyl- ?	CPSi5	2065	26,300	1,903	Rel_Area	1902905	0	DB 16-1-02
NP 1270-8	heneicosaan	CPSi5	2101	26,610	1,02	Rel_Area	1019920	0	DB 16-1-02
NP 1270-8	butylpalmiataat	CPSi5	2175	27,260	40,024	Rel_Area	40024278	0	DB 16-1-02
NP 1270-8	alkaan (C22)	CPSi5	2202	27,500	5,777	Rel_Area	5776923	0	DB 16-1-02
NP 1270-8	benzofenon, p-chloor-p'-hydroxy-	CPSi5	2209	27,560	0,984	Rel_Area	983676	0	DB 16-1-02
NP 1270-8	propaanzuur-2,3(4-methoxyfenyl),2-ethylhexylester	CPSi5	2296	28,320	9,206	Rel_Area	9205667	0	DB 16-1-02
NP 1270-8	carbamazepine	CPSi5	2304	28,390	0,834	Rel_Area	833565	0	DB 16-1-02
NP 1270-8	methyldehydroabietaat	CPSi5	2346	28,740	16,1	Rel_Area	16100258	0	DB 16-1-02
NP 1270-8	hexacosaan	CPSi5	2616	30,940	0,708	Rel_Area	708198	0	DB 16-1-02
NP 1270-8	heptacosane	CPSi5	2684	31,450	2,496	Rel_Area	2496285	0	DB 16-1-02
NP 1270-8	heptacosane	CPSi5	2696	31,720	0,83	Rel_Area	830093	0	DB 16-1-02
NP 1270-8	di-iso-octylfalaat	CPSi5	2701	31,820	0,121	Rel_Area	120743	0	DB 16-1-02
NP 1270-8	heptacosane	CPSi5	2719	32,250	2,389	Rel_Area	2389329	0	DB 16-1-02
NP 1270-8	n-Octacosane	CPSi5	2795	34,010	1,276	Rel_Area	1275862	0	DB 16-1-02
NP 1270-8	n-Octacosane	CPSi5	2808	34,340	1,004	Rel_Area	1004293	0	DB 16-1-02
NP 1270-8	nonacosane	CPSi5	2874	36,000	1,453	Rel_Area	1453053	0	DB 16-1-02
NP 1270-8	nonacosane	CPSi5	2883	36,210	0,891	Rel_Area	890933	0	DB 16-1-02
NP 1270-8	nonacosane	CPSi5	2886	36,300	0,104	Rel_Area	104385	0	DB 16-1-02
NP 1270-8	nonacosane	CPSi5	2892	36,450	0,142	Rel_Area	141876	0	DB 16-1-02
NP 1270-8	nonacosane	CPSi5	2898	36,610	0,767	Rel_Area	766617	0	DB 16-1-02
NP 1270-8	nonacosane	CPSi5	2905	36,800	0,327	Rel_Area	326611	0	DB 16-1-02

7.3 GC-MS database resultaten monster NP 1271-7

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP 1271-7	butyl isobutylfataat	CPSi5	1837	24,150	0,248	µg/l	1537851201	0	DB 16-1-02
NP 1271-7	bis(2-ethylhexyl) phthalate	CPSi5	2530	30,170	0,746	µg/l	4625963644	0	DB 16-1-02
NP 1271-7	n-Octacosane	CPSi5	2796	34,040	0,375	Rel_Area	374619	0	DB 16-1-02
NP 1271-7	n-Octacosane	CPSi5	2808	34,330	2,041	Rel_Area	2041410	0	DB 16-1-02
NP 1271-7	n-Octacosane	CPSi5	2816	34,520	3,937	Rel_Area	3937088	0	DB 16-1-02
NP 1271-7	n-Octacosane	CPSi5	2817	34,570	0,342	Rel_Area	341851	0	DB 16-1-02
NP 1271-7	n-Octacosane	CPSi5	2824	34,740	0,677	Rel_Area	677124	0	DB 16-1-02
NP 1271-7	nonacosane	CPSi5	2882	36,200	0,785	Rel_Area	784607	0	DB 16-1-02
NP 1271-7	nonacosane	CPSi5	2898	36,600	0,966	Rel_Area	965598	0	DB 16-1-02
NP 1271-7	nonacosane	CPSi5	2905	36,780	0,958	Rel_Area	958125	0	DB 16-1-02
NP 1271-7	hexeen-2, 3,5,5-trimethyl-	CPSi5	1155	11,360	1,044	Rel_Area	1044354	0	DB 16-1-02
NP 1271-7	hexeen-2, 3,5,5-trimethyl-	CPSi5	1157	11,400	0,188	Rel_Area	188249	0	DB 16-1-02
NP 1271-7	methyltoluaat (p- of m-)	CPSi5	1188	12,170	0,18	Rel_Area	179683	0	DB 16-1-02
NP 1271-7	1,4-benzeendiamine	CPSi5	1226	13,180	0,499	Rel_Area	498684	0	DB 16-1-02
NP 1271-7	isopropylbenzoaat	CPSi5	1244	13,700	2,679	Rel_Area	2678793	0	DB 16-1-02
NP 1271-7	benzene, hexyl-	CPSi5	1246	13,740	1,193	Rel_Area	1192648	0	DB 16-1-02
NP 1271-7	benzene, (3-chloro-1-propenyl)-	CPSi5	1261	14,190	0,297	Rel_Area	297494	0	DB 16-1-02
NP 1271-7	isopropylbenzoaat	CPSi5	1263	14,240	0,419	Rel_Area	419373	0	DB 16-1-02
NP 1271-7	isobenzofuranon	CPSi5	1297	15,310	1,26	Rel_Area	1260072	0	DB 16-1-02
NP 1271-7	acetofenon, 4-methoxy-	CPSi5	1328	16,330	1,258	Rel_Area	1258043	0	DB 16-1-02
NP 1271-7	mevinphos	CPSi5	1382	18,300	0,194	Rel_Area	194218	0	DB 16-1-02
NP 1271-7	naphthalene, 2-ethenyl-	CPSi5	1391	18,640	0,773	Rel_Area	772725	0	DB 16-1-02
NP 1271-7	acroleine, 3-(2,6-trimethyl-7-oxa-norceryl)-	CPSi5	1394	18,760	0,478	Rel_Area	478319	0	DB 16-1-02
NP 1271-7	dimethylsuberaat	CPSi5	1397	18,890	1,981	Rel_Area	1980830	0	DB 16-1-02
NP 1271-7	benzopyran-2-on	CPSi5	1416	19,130	0,808	Rel_Area	808343	0	DB 16-1-02
NP 1271-7	benzoëzuur, 2-(1-oxopropyl)-, methyl ester	CPSi5	1427	19,280	2,889	Rel_Area	2889922	0	DB 16-1-02
NP 1271-7	ethanone, 1-(2,5-dimethoxyphenyl)-	CPSi5	1468	19,830	3,904	Rel_Area	3903511	0	DB 16-1-02
NP 1271-7	dimethylisofataat	CPSi5	1476	19,940	0,651	Rel_Area	650554	0	DB 16-1-02
NP 1271-7	fenol, di-(tertbutyl)-	CPSi5	1497	20,230	1,426	Rel_Area	1426161	0	DB 16-1-02
NP 1271-7	butylated hydroxytoluene	CPSi5	1505	20,340	30,884	Rel_Area	30883716	0	DB 16-1-02
NP 1271-7	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1536	20,790	1,814	Rel_Area	1814492	0	DB 16-1-02
NP 1271-7	phthalic acid, diethyl ester	CPSi5	1557	21,030	12,818	Rel_Area	12817653	0	DB 16-1-02
NP 1271-7	1-Hexen-3-one, 5-methyl-1-phenyl-	CPSi5	1569	21,170	0,204	Rel_Area	204022	0	DB 16-1-02
NP 1271-7	phenol, 4-(1,1,3,3-tetramethylbutyl)-	CPSi5	1595	21,450	4,142	Rel_Area	4142012	0	DB 16-1-02
NP 1271-7	hydrazine, 1,1-difenyl-	CPSi5	1599	21,500	7,077	Rel_Area	7077167	0	DB 16-1-02
NP 1271-7	phosphoric acid tributyl ester	CPSi5	1612	21,690	6,239	Rel_Area	6238692	0	DB 16-1-02
NP 1271-7	cyclopentaanzijnzuur, 3-oxo-2-pentyl-, methylest	CPSi5	1621	21,790	0,594	Rel_Area	593843	0	DB 16-1-02
NP 1271-7	naftaleen, 1,2,3,4-tetrahydro-5-methoxy-	CPSi5	1628	21,850	1,589	Rel_Area	1588714	0	DB 16-1-02
NP 1271-7	bicyclo[3,1,1]heptaan-2-on, 3,6,6-trimethyl-	CPSi5	1656	22,120	0,748	Rel_Area	748124	0	DB 16-1-02
NP 1271-7	alkylbenzoaat	CPSi5	1693	22,610	2,318	Rel_Area	2318485	0	DB 16-1-02
NP 1271-7	fenol, tetramethylbutyl-	CPSi5	1702	22,730	1,924	Rel_Area	1923621	0	DB 16-1-02
NP 1271-7	tetradecaan, 2-methyl-	CPSi5	1739	23,310	0,194	Rel_Area	193957	0	DB 16-1-02
NP 1271-7	tris(2-chloroisopropyl)phosphate	CPSi5	1761	23,360	1,377	Rel_Area	1376769	0	DB 16-1-02
NP 1271-7	octadecane	CPSi5	1810	23,860	1,048	Rel_Area	1047523	0	DB 16-1-02
NP 1271-7	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSi5	1818	23,940	0,866	Rel_Area	866422	0	DB 16-1-02
NP 1271-7	butyl isobutylfataat	CPSi5	1836	24,140	435,298	Rel_Area	435298120	0	DB 16-1-02
NP 1271-7	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSi5	1849	24,290	3,472	Rel_Area	3472281	0	DB 16-1-02
NP 1271-7	dibutyl phthalate	CPSi5	1932	25,040	266,368	Rel_Area	266365573	0	DB 16-1-02
NP 1271-7	methylcaprylaat	CPSi5	1104	10,190	0,366	Rel_Area	365511	0	DB 16-1-02
NP 1271-7	cyclohexaan carbonzuur	CPSi5	1111	10,350	0,194	Rel_Area	194261	0	DB 16-1-02
NP 1271-7	fenol, 2,4,6-tri-tert-butyl- ?	CPSi5	2065	26,300	1,318	Rel_Area	1317652	0	DB 16-1-02
NP 1271-7	heneicosaan	CPSi5	2082	26,440	1,975	Rel_Area	1974513	0	DB 16-1-02
NP 1271-7	heneicosaan	CPSi5	2101	26,610	2,273	Rel_Area	2272557	0	DB 16-1-02
NP 1271-7	methylstearaat	CPSi5	2112	26,710	1,399	Rel_Area	1399012	0	DB 16-1-02
NP 1271-7	butylpalmitaat	CPSi5	2175	27,260	36,989	Rel_Area	36989491	0	DB 16-1-02
NP 1271-7	isooktaan (C22)	CPSi5	2195	27,440	2,219	Rel_Area	2218737	0	DB 16-1-02
NP 1271-7	tricosaan	CPSi5	2299	28,350	2,907	Rel_Area	2906541	0	DB 16-1-02
NP 1271-7	methyldehydroabietaat	CPSi5	2346	28,730	12,153	Rel_Area	12152767	0	DB 16-1-02
NP 1271-7	methyldehydroabietaat	CPSi5	2351	28,780	0,367	Rel_Area	367275	0	DB 16-1-02
NP 1271-7	adipinezuur, mono-(2-ethylhexyl) ester	CPSi5	2366	28,980	4,223	Rel_Area	4222881	0	DB 16-1-02
NP 1271-7	bis(2-ethylhexyl) phthalate	CPSi5	2529	30,170	590,422	Rel_Area	590421951	0	DB 16-1-02
NP 1271-7	bis(2-ethylhexyl) phthalate	CPSi5	2539	30,250	884,447	Rel_Area	884446989	0	DB 16-1-02
NP 1271-7	hexacosaan	CPSi5	2594	30,710	4,044	Rel_Area	4043784	0	DB 16-1-02
NP 1271-7	hexacosaan	CPSi5	2619	30,970	3,827	Rel_Area	3827378	0	DB 16-1-02
NP 1271-7	hexacosaan	CPSi5	2625	31,010	0,727	Rel_Area	727378	0	DB 16-1-02
NP 1271-7	heptacosane	CPSi5	2696	31,730	1,28	Rel_Area	1280322	0	DB 16-1-02
NP 1271-7	heptacosane	CPSi5	2706	31,950	0,851	Rel_Area	850775	0	DB 16-1-02
NP 1271-7	di-n-octyl phthalate	CPSi5	2711	32,050	1,35	Rel_Area	1349504	0	DB 16-1-02
NP 1271-7	octeen-2-zuur, methyl ester	CPSi5	1137	10,940	0,194	Rel_Area	193845	0	DB 16-1-02
NP 1271-7	heptacosane	CPSi5	2719	32,250	1,172	Rel_Area	1171766	0	DB 16-1-02
NP 1271-7	di-n-octyl phthalate	CPSi5	2723	32,330	7,47	Rel_Area	7470357	0	DB 16-1-02

7.4 GC-MS database resultaten monster NP 1273-6

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP 1273-6	octeen-2-zuur, methyl ester	CPSi5	1138	10,940	0,202	Rel_Area	201939	0	DB 16-1-02
NP 1273-6	hexeen-2, 3,5,5-trimethyl-	CPSi5	1156	11,360	1,078	Rel_Area	1078263	0	DB 16-1-02
NP 1273-6	benzene, (3-chloropropyl)-	CPSi5	1187	12,130	0,284	Rel_Area	284302	0	DB 16-1-02
NP 1273-6	isopropylbenzoaat	CPSi5	1244	13,700	2,568	Rel_Area	2568371	0	DB 16-1-02
NP 1273-6	benzeen, (1,2-dimethoxyethyl)-	CPSi5	1257	14,070	0,391	Rel_Area	390902	0	DB 16-1-02
NP 1273-6	benzene, (3-chloro-1-propenyl)-	CPSi5	1261	14,190	0,089	Rel_Area	88678	0	DB 16-1-02
NP 1273-6	isopropylbenzoaat	CPSi5	1263	14,240	0,396	Rel_Area	396006	0	DB 16-1-02
NP 1273-6	sulfon, 1,1,2,2-tetrachloordimethyl-	CPSi5	1271	14,490	0,449	Rel_Area	449124	0	DB 16-1-02
NP 1273-6	isobenzofuranon	CPSi5	1297	15,300	1,281	Rel_Area	1280846	0	DB 16-1-02
NP 1273-6	1,1'-bicyclohexyl	CPSi5	1310	15,740	0,793	Rel_Area	793072	0	DB 16-1-02
NP 1273-6	acetofenon, 4-methoxy-	CPSi5	1328	16,320	1,391	Rel_Area	1391234	0	DB 16-1-02
NP 1273-6	tetradeceen-3	CPSi5	1359	17,440	0,18	Rel_Area	179744	0	DB 16-1-02
NP 1273-6	dimethylsuberaat	CPSi5	1397	18,890	1,082	Rel_Area	1082285	0	DB 16-1-02
NP 1273-6	ethanone, 1,1'-(1,4-phenylene)bis-	CPSi5	1407	19,010	14,301	Rel_Area	14300509	0	DB 16-1-02
NP 1273-6	benzopyran-2-on	CPSi5	1417	19,150	0,636	Rel_Area	635725	0	DB 16-1-02
NP 1273-6	benzoëzuur, 2-(1-oxopropyl)-, methyl ester	CPSi5	1427	19,280	2,079	Rel_Area	2079145	0	DB 16-1-02
NP 1273-6	quinoline, 1,2-dihydro-2,4-trimethyl-	CPSi5	1448	19,560	0,881	Rel_Area	881414	0	DB 16-1-02
NP 1273-6	ethanone, 1-(2,5-dimethoxyphenyl)-	CPSi5	1468	19,830	4,623	Rel_Area	4623263	0	DB 16-1-02
NP 1273-6	dimethylisofthaltaat	CPSi5	1476	19,940	0,499	Rel_Area	499260	0	DB 16-1-02
NP 1273-6	naftol-1	CPSi5	1494	20,200	1,293	Rel_Area	1293300	0	DB 16-1-02
NP 1273-6	methyldecanoaat	CPSi5	1508	20,390	0,912	Rel_Area	911511	0	DB 16-1-02
NP 1273-6	calameneen	CPSi5	1527	20,660	0,628	Rel_Area	628445	0	DB 16-1-02
NP 1273-6	phthalic acid, diethyl ester	CPSi5	1559	21,050	15,255	Rel_Area	15254724	0	DB 16-1-02
NP 1273-6	ethenylbenzaldehyde	CPSi5	1571	21,180	0,191	Rel_Area	191229	0	DB 16-1-02
NP 1273-6	2,2,4-Trimethylpentane-1,3-diol diisobutyrate	CPSi5	1598	21,500	3,795	Rel_Area	3794577	0	DB 16-1-02
NP 1273-6	phosphoric acid tributyl ester	CPSi5	1612	21,700	10,423	Rel_Area	10422693	0	DB 16-1-02
NP 1273-6	benzeen (1-propyloctyl)-	CPSi5	1630	21,870	0,321	Rel_Area	321160	0	DB 16-1-02
NP 1273-6	benzeen (1-propyloctyl)-	CPSi5	1642	21,980	0,3	Rel_Area	300348	0	DB 16-1-02
NP 1273-6	adipinezuur, octyl-alkyl ester	CPSi5	1658	22,130	1,087	Rel_Area	1087170	0	DB 16-1-02
NP 1273-6	cadaleen	CPSi5	1675	22,380	0,394	Rel_Area	394429	0	DB 16-1-02
NP 1273-6	cyclopentaanzijnzuur, 3-oxo-2-pentyl-, methylest	CPSi5	1626	22,520	2,255	Rel_Area	2255006	0	DB 16-1-02
NP 1273-6	heptadecaan	CPSi5	1694	22,620	1,498	Rel_Area	1498249	0	DB 16-1-02
NP 1273-6	naftaleen, diisopropyl-	CPSi5	1676	22,880	0,484	Rel_Area	484003	0	DB 16-1-02
NP 1273-6	benzeen, (1-butylheptyl)-	CPSi5	1643	23,110	0,585	Rel_Area	585087	0	DB 16-1-02
NP 1273-6	tris(2-chloroisopropyl)phosphate	CPSi5	1759	23,350	1,653	Rel_Area	1652598	0	DB 16-1-02
NP 1273-6	octadecane	CPSi5	1810	23,850	0,806	Rel_Area	806468	0	DB 16-1-02
NP 1273-6	galoxolide (HHCB)	CPSi5	1848	24,280	3,235	Rel_Area	3235101	0	DB 16-1-02
NP 1273-6	dibutyl phthalate	CPSi5	1932	25,050	299,108	Rel_Area	299108176	0	DB 16-1-02
NP 1273-6	fenol, 2,4,6-tri-tert-butyl- ?	CPSi5	2065	26,300	1,957	Rel_Area	1957216	0	DB 16-1-02
NP 1273-6	heneicosaan	CPSi5	2081	26,440	2,41	Rel_Area	2410116	0	DB 16-1-02
NP 1273-6	heneicosaan	CPSi5	2101	26,610	1,166	Rel_Area	1165729	0	DB 16-1-02
NP 1273-6	butylpalmitaat	CPSi5	2175	27,260	44,307	Rel_Area	44307017	0	DB 16-1-02
NP 1273-6	alkaan (C22)	CPSi5	2201	27,490	4,4	Rel_Area	4399575	0	DB 16-1-02
NP 1273-6	benzofenon, p-chloor-p'-hydroxy-	CPSi5	2208	27,560	1,161	Rel_Area	1161225	0	DB 16-1-02
NP 1273-6	tricosaan	CPSi5	2299	28,350	3,13	Rel_Area	3129904	0	DB 16-1-02
NP 1273-6	phthalic acid, benzyl butyl ester	CPSi5	2317	28,500	9,007	Rel_Area	9007066	0	DB 16-1-02
NP 1273-6	methyldehydroabietaat	CPSi5	2345	28,730	12,832	Rel_Area	12832335	0	DB 16-1-02
NP 1273-6	bis(2-ethylhexyl) phthalate	CPSi5	2523	30,120	11,607	Rel_Area	11607171	0	DB 16-1-02
NP 1273-6	hexacosaan	CPSi5	2593	30,780	0,607	Rel_Area	606669	0	DB 16-1-02
NP 1273-6	hexacosaan	CPSi5	2618	30,960	1,59	Rel_Area	1590010	0	DB 16-1-02
NP 1273-6	heptacosane	CPSi5	2684	31,450	1,653	Rel_Area	1652675	0	DB 16-1-02
NP 1273-6	di-iso-octylftalaat	CPSi5	2689	31,550	0,219	Rel_Area	219465	0	DB 16-1-02
NP 1273-6	heptacosane	CPSi5	2696	31,720	1,73	Rel_Area	1730438	0	DB 16-1-02
NP 1273-6	heptacosane	CPSi5	2710	32,030	0,622	Rel_Area	621570	0	DB 16-1-02
NP 1273-6	heptacosane	CPSi5	2719	32,240	1,762	Rel_Area	1761628	0	DB 16-1-02
NP 1273-6	di-n-octyl phthalate	CPSi5	2723	32,340	0,405	Rel_Area	405201	0	DB 16-1-02
NP 1273-6	n-Octacosane	CPSi5	2794	34,010	0,625	Rel_Area	624872	0	DB 16-1-02
NP 1273-6	n-Octacosane	CPSi5	2808	34,330	1,268	Rel_Area	1267602	0	DB 16-1-02
NP 1273-6	n-Octacosane	CPSi5	2823	34,700	0,043	Rel_Area	42901	0	DB 16-1-02
NP 1273-6	nonacosane	CPSi5	2882	36,200	0,428	Rel_Area	428016	0	DB 16-1-02
NP 1273-6	nonacosane	CPSi5	2898	36,600	0,539	Rel_Area	539268	0	DB 16-1-02
NP 1273-6	nonacosane	CPSi5	2905	36,780	1,389	Rel_Area	1388750	0	DB 16-1-02

7.5 GC-MS database resultaten monster NP 1274-5

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP 1274-5	butyl isobutyfataat	CPSi5	1837	24,160	0,303	µg/l	1875812951	40768897	DB 16-1-02
NP 1274-5	bis(2-ethylhexyl) phthalate	CPSi5	2530	30,170	0,625	µg/l	3876938520	54963925	DB 16-1-02
NP 1274-5	octeen-2-zuur, methyl ester	CPSi5	1137	10,930	0,181	Rel_Area	181180	0	DB 16-1-02
NP 1274-5	hexeen-2, 3,5,5-trimethyl-	CPSi5	1155	11,350	0,69	Rel_Area	689944	0	DB 16-1-02
NP 1274-5	hexeen-2, 3,5,5-trimethyl-	CPSi5	1157	11,400	0,232	Rel_Area	232077	0	DB 16-1-02
NP 1274-5	benzene, (3-chloropropyl)-	CPSi5	1187	12,130	0,272	Rel_Area	271864	0	DB 16-1-02
NP 1274-5	1,4-benzeendiamine	CPSi5	1226	13,180	0,482	Rel_Area	482110	0	DB 16-1-02
NP 1274-5	isopropylbenzoaat	CPSi5	1245	13,700	2,614	Rel_Area	2613885	0	DB 16-1-02
NP 1274-5	benzeen, (1,2-dimethoxyethyl)-	CPSi5	1258	14,090	0,549	Rel_Area	548703	0	DB 16-1-02
NP 1274-5	benzene, (3-chloro-1-propenyl)-	CPSi5	1262	14,210	0,606	Rel_Area	605892	0	DB 16-1-02
NP 1274-5	isobenzofuranon	CPSi5	1297	15,310	1,238	Rel_Area	1238036	0	DB 16-1-02
NP 1274-5	acetofenon, 4-methoxy-	CPSi5	1327	16,290	0,296	Rel_Area	295661	0	DB 16-1-02
NP 1274-5	fenol, 4-(1,1-dimethylpropyl)-	CPSi5	1375	18,010	0,095	Rel_Area	95030	0	DB 16-1-02
NP 1274-5	tetradeceen (isomeer)	CPSi5	1397	18,890	1,976	Rel_Area	1975510	0	DB 16-1-02
NP 1274-5	benzoëzuur, 2-(1-oxopropyl)-, methyl ester	CPSi5	1427	19,280	2,888	Rel_Area	2888123	0	DB 16-1-02
NP 1274-5	ethanone, 1-(2,5-dimethoxyphenyl)-	CPSi5	1468	19,830	6,172	Rel_Area	6172201	0	DB 16-1-02
NP 1274-5	dimethylisofataat	CPSi5	1484	20,050	2,636	Rel_Area	2635834	0	DB 16-1-02
NP 1274-5	butylated hydroxytoluene	CPSi5	1505	20,350	48,659	Rel_Area	48659132	0	DB 16-1-02
NP 1274-5	calameneen	CPSi5	1527	20,660	0,894	Rel_Area	894065	0	DB 16-1-02
NP 1274-5	DEET (diethyltoluamide)	CPSi5	1552	20,970	2,164	Rel_Area	2164129	0	DB 16-1-02
NP 1274-5	phthalic acid, diethyl ester	CPSi5	1557	21,030	16,917	Rel_Area	16916979	0	DB 16-1-02
NP 1274-5	phenol, 2-(1-methylethoxy)-, methylcarbamate	CPSi5	1574	21,220	0,414	Rel_Area	413912	0	DB 16-1-02
NP 1274-5	2,2,4-Trimethylpentane-1,3-diol diisobutyrate	CPSi5	1598	21,490	2,278	Rel_Area	2278289	0	DB 16-1-02
NP 1274-5	phosphoric acid tributyl ester	CPSi5	1612	21,690	9,23	Rel_Area	9230344	0	DB 16-1-02
NP 1274-5	cyclopentaneazijnzuur, 3-oxo-2-pentyl-, methylest	CPSi5	1623	21,800	2,06	Rel_Area	2060240	0	DB 16-1-02
NP 1274-5	benzeen (1-propyloctyl)-	CPSi5	1643	21,990	0,223	Rel_Area	223325	0	DB 16-1-02
NP 1274-5	adipinezuur, octyl-alkyl ester	CPSi5	1656	22,120	0,8	Rel_Area	799598	0	DB 16-1-02
NP 1274-5	cadaleen	CPSi5	1675	22,380	0,418	Rel_Area	418097	0	DB 16-1-02
NP 1274-5	cyclopentaneazijnzuur, 3-oxo-2-pentyl-, methylest	CPSi5	1627	22,520	2,23	Rel_Area	2230259	0	DB 16-1-02
NP 1274-5	fenol, tetramethylbutyl-	CPSi5	1702	22,730	1,284	Rel_Area	1284418	0	DB 16-1-02
NP 1274-5	tris(2-chloroisopropyl)phosphate	CPSi5	1762	23,360	1,948	Rel_Area	1947897	0	DB 16-1-02
NP 1274-5	octadecane	CPSi5	1810	23,860	0,874	Rel_Area	874171	0	DB 16-1-02
NP 1274-5	butyl isobutyfataat	CPSi5	1833	24,110	1,368	Rel_Area	1367965	0	DB 16-1-02
NP 1274-5	butyl isobutyfataat	CPSi5	1837	24,150	472,623	Rel_Area	472622518	0	DB 16-1-02
NP 1274-5	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSi5	1849	24,290	4,69	Rel_Area	4689882	0	DB 16-1-02
NP 1274-5	dibutyl phthalate	CPSi5	1932	25,050	329,057	Rel_Area	329057317	0	DB 16-1-02
NP 1274-5	fenol, 2,4,6-tri-tert-butyl- ?	CPSi5	2065	26,300	0,606	Rel_Area	606198	0	DB 16-1-02
NP 1274-5	heneicosaan	CPSi5	2082	26,440	1,894	Rel_Area	1894426	0	DB 16-1-02
NP 1274-5	heneicosaan	CPSi5	2101	26,610	1,035	Rel_Area	1034726	0	DB 16-1-02
NP 1274-5	butylpalmitaat	CPSi5	2174	27,250	22,518	Rel_Area	22517612	0	DB 16-1-02
NP 1274-5	alkaan (C22)	CPSi5	2201	27,490	6,491	Rel_Area	6490812	0	DB 16-1-02
NP 1274-5	indoline, methyl-N-(2-cyano-2-methoxycarbonylvinyl	CPSi5	2212	27,590	0,59	Rel_Area	589632	0	DB 16-1-02
NP 1274-5	propaanzuur-2,3(4-methoxyfenyl)-2-ethylhexylester	CPSi5	2295	28,310	2,961	Rel_Area	2961275	0	DB 16-1-02
NP 1274-5	phthalic acid, benzyl butyl ester	CPSi5	2318	28,500	8,525	Rel_Area	8525432	0	DB 16-1-02
NP 1274-5	methyldehydroabietaat	CPSi5	2345	28,730	13,09	Rel_Area	13089551	0	DB 16-1-02
NP 1274-5	adipinezuur, mono-(2-ethylhexyl) ester	CPSi5	2366	28,980	1,495	Rel_Area	1494647	0	DB 16-1-02
NP 1274-5	bis(2-ethylhexyl) phthalate	CPSi5	2521	30,110	1,446	Rel_Area	1446055	0	DB 16-1-02
NP 1274-5	bis(2-ethylhexyl) phthalate	CPSi5	2529	30,160	485,412	Rel_Area	485411922	0	DB 16-1-02
NP 1274-5	bis(2-ethylhexyl) phthalate	CPSi5	2534	30,210	695,9	Rel_Area	695899740	0	DB 16-1-02
NP 1274-5	hexacosaan	CPSi5	2595	30,700	2,214	Rel_Area	2214452	0	DB 16-1-02
NP 1274-5	hexacosaan	CPSi5	2624	31,000	0,154	Rel_Area	153707	0	DB 16-1-02
NP 1274-5	heptacosane	CPSi5	2689	31,550	0,281	Rel_Area	281030	0	DB 16-1-02
NP 1274-5	di-n-octyl phthalate	CPSi5	2710	32,020	1,078	Rel_Area	1078487	0	DB 16-1-02
NP 1274-5	heptacosane	CPSi5	2719	32,240	1,296	Rel_Area	1296284	0	DB 16-1-02
NP 1274-5	di-n-octyl phthalate	CPSi5	2723	32,330	4,156	Rel_Area	4155592	0	DB 16-1-02
NP 1274-5	squalene (all trans) (2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,23-hexamethyl)	CPSi5	2798	34,110	0,38	Rel_Area	379836	0	DB 16-1-02
NP 1274-5	n-Octacosane	CPSi5	2808	34,340	0,587	Rel_Area	586589	0	DB 16-1-02
NP 1274-5	nonacosane	CPSi5	2883	36,200	0,349	Rel_Area	349344	0	DB 16-1-02
NP 1274-5	nonacosane	CPSi5	2897	36,570	0,327	Rel_Area	326758	0	DB 16-1-02
NP 1274-5	nonacosane	CPSi5	2898	36,620	1,096	Rel_Area	1096331	0	DB 16-1-02
NP 1274-5	nonacosane	CPSi5	2904	36,770	2,56	Rel_Area	2559601	0	DB 16-1-02

7.6 GC-MS database resultaten monster NP 1275-4

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP 1275-4	butyl isobutyrlaataat	CPSiI5	1838	24,170	0,288	ug/l	1785367249	40779341	DB 16-1-02
NP 1275-4	methylcaprylaat	CPSiI5	1103	10,180	0,695	Rel_Area	695395	0	DB 16-1-02
NP 1275-4	benzene, (3-chloropropyl)-	CPSiI5	1186	12,120	0,206	Rel_Area	205656	0	DB 16-1-02
NP 1275-4	isopropylbenzooat	CPSiI5	1245	13,700	2,251	Rel_Area	2250891	0	DB 16-1-02
NP 1275-4	acetofenon, 3,4-dimethyl-	CPSiI5	1249	13,830	0,061	Rel_Area	61480	0	DB 16-1-02
NP 1275-4	benzene, (3-chloro-1-propenyl)-	CPSiI5	1262	14,210	0,687	Rel_Area	686992	0	DB 16-1-02
NP 1275-4	isopropylbenzooat	CPSiI5	1263	14,250	0,531	Rel_Area	531136	0	DB 16-1-02
NP 1275-4	sulfon, 1,1,2,2,-tetrachloordimethyl-	CPSiI5	1287	14,990	0,251	Rel_Area	250746	0	DB 16-1-02
NP 1275-4	isobenzofuranon	CPSiI5	1296	15,280	0,673	Rel_Area	672666	0	DB 16-1-02
NP 1275-4	acetofenon, 4-methoxy-	CPSiI5	1328	16,330	1,245	Rel_Area	1244743	0	DB 16-1-02
NP 1275-4	benzenemethanol, 4-(1,1-dimethylethyl)-	CPSiI5	1346	16,960	0,151	Rel_Area	151320	0	DB 16-1-02
NP 1275-4	dimethylsuberaat	CPSiI5	1397	18,890	1,083	Rel_Area	1083463	0	DB 16-1-02
NP 1275-4	pyrazool(1H), 3-methyl-5-fenyl-	CPSiI5	1410	19,060	2,119	Rel_Area	2118759	0	DB 16-1-02
NP 1275-4	benzopyran-2-on	CPSiI5	1417	19,140	0,246	Rel_Area	245700	0	DB 16-1-02
NP 1275-4	benzoëzuur, 2-(1-oxopropyl)-, methyl ester	CPSiI5	1427	19,280	1,844	Rel_Area	1843539	0	DB 16-1-02
NP 1275-4	ethanone, 1-(2,5-dimethoxyphenyl)-	CPSiI5	1468	19,830	6,563	Rel_Area	6563244	0	DB 16-1-02
NP 1275-4	benzeensulfonamide, N,4-dimethyl-N-nitroso-	CPSiI5	1479	19,990	1,509	Rel_Area	1509485	0	DB 16-1-02
NP 1275-4	fenol, di-(tertbutyl)-	CPSiI5	1497	20,230	1,438	Rel_Area	1437699	0	DB 16-1-02
NP 1275-4	butylated hydroxytoluene	CPSiI5	1505	20,340	20,563	Rel_Area	20562765	0	DB 16-1-02
NP 1275-4	benzofuranon, methyl-	CPSiI5	1518	20,520	0,316	Rel_Area	315872	0	DB 16-1-02
NP 1275-4	calameneen	CPSiI5	1527	20,660	0,902	Rel_Area	902357	0	DB 16-1-02
NP 1275-4	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSiI5	1536	20,780	2,57	Rel_Area	2570367	0	DB 16-1-02
NP 1275-4	DEET (diethyltoluamide)	CPSiI5	1553	20,980	1,069	Rel_Area	1068544	0	DB 16-1-02
NP 1275-4	phthalic acid, diethyl ester	CPSiI5	1557	21,030	12,505	Rel_Area	12504664	0	DB 16-1-02
NP 1275-4	phenol, 4-(1,1,3,3-tetramethylbutyl)-	CPSiI5	1594	21,450	2,433	Rel_Area	2433147	0	DB 16-1-02
NP 1275-4	ethyl citrate	CPSiI5	1614	21,720	5,283	Rel_Area	5283459	0	DB 16-1-02
NP 1275-4	cyclopentaanzijnzuur, 3-oxo-2-pentyl-, methylest	CPSiI5	1622	21,800	0,916	Rel_Area	915518	0	DB 16-1-02
NP 1275-4	benzeen (1-propyloctyl)-	CPSiI5	1642	21,980	0,377	Rel_Area	377252	0	DB 16-1-02
NP 1275-4	bicyclo[3,1,1]heptaan-2-on, 3,6,6-trimethyl-	CPSiI5	1656	22,120	0,732	Rel_Area	732016	0	DB 16-1-02
NP 1275-4	cadaleen	CPSiI5	1675	22,370	0,858	Rel_Area	858265	0	DB 16-1-02
NP 1275-4	cyclopentaanzijnzuur, 3-oxo-2-pentyl-, methylest	CPSiI5	1626	22,520	1,398	Rel_Area	1397931	0	DB 16-1-02
NP 1275-4	isoalkaan (C18)	CPSiI5	1694	22,620	1,311	Rel_Area	1311261	0	DB 16-1-02
NP 1275-4	octadecane	CPSiI5	1811	23,860	1,012	Rel_Area	1012386	0	DB 16-1-02
NP 1275-4	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSiI5	1819	23,950	0,968	Rel_Area	968037	0	DB 16-1-02
NP 1275-4	butyl isobutyrlaataat	CPSiI5	1838	24,170	475,361	Rel_Area	475360740	0	DB 16-1-02
NP 1275-4	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSiI5	1849	24,290	3,871	Rel_Area	3871304	0	DB 16-1-02
NP 1275-4	dibutyl phthalate	CPSiI5	1933	25,060	366,617	Rel_Area	366616887	0	DB 16-1-02
NP 1275-4	isoalkaan (C21)	CPSiI5	1987	25,890	1,688	Rel_Area	1688071	0	DB 16-1-02
NP 1275-4	heneicosaan	CPSiI5	2082	26,440	5,809	Rel_Area	5808504	0	DB 16-1-02
NP 1275-4	heneicosaan	CPSiI5	2101	26,610	1,276	Rel_Area	1276248	0	DB 16-1-02
NP 1275-4	butylpalmitaat	CPSiI5	2174	27,250	23,969	Rel_Area	23968751	0	DB 16-1-02
NP 1275-4	alkaan (C22)	CPSiI5	2201	27,500	3,772	Rel_Area	3771818	0	DB 16-1-02
NP 1275-4	tricosaan	CPSiI5	2299	28,350	2,911	Rel_Area	2910833	0	DB 16-1-02
NP 1275-4	phthalic acid, benzyl butyl ester	CPSiI5	2318	28,500	14,202	Rel_Area	14201509	0	DB 16-1-02
NP 1275-4	methyldehydroabietaat	CPSiI5	2345	28,730	11,869	Rel_Area	11868578	0	DB 16-1-02
NP 1275-4	adipinezuur, mono-(2-ethylhexyl) ester	CPSiI5	2366	28,980	2,601	Rel_Area	2601178	0	DB 16-1-02
NP 1275-4	methyldehydroabietaat	CPSiI5	2373	29,750	0,246	Rel_Area	246126	0	DB 16-1-02
NP 1275-4	bis(2-ethylhexyl) phthalate	CPSiI5	2523	30,120	0,26	Rel_Area	259850	0	DB 16-1-02
NP 1275-4	hexacosaan	CPSiI5	2596	30,690	3,2	Rel_Area	3199944	0	DB 16-1-02
NP 1275-4	phosphine sulfide, triphenyl-	CPSiI5	2598	30,820	0,474	Rel_Area	473609	0	DB 16-1-02
NP 1275-4	hexacosaan	CPSiI5	2615	30,940	0,186	Rel_Area	185593	0	DB 16-1-02
NP 1275-4	heptacosane	CPSiI5	2684	31,450	1,863	Rel_Area	1862938	0	DB 16-1-02
NP 1275-4	heptacosane	CPSiI5	2696	31,710	0,374	Rel_Area	373678	0	DB 16-1-02
NP 1275-4	heptacosane	CPSiI5	2710	32,040	0,318	Rel_Area	318034	0	DB 16-1-02
NP 1275-4	heptacosane	CPSiI5	2719	32,240	2,024	Rel_Area	2024210	0	DB 16-1-02
NP 1275-4	di-n-octyl phthalate	CPSiI5	2723	32,330	0,393	Rel_Area	393002	0	DB 16-1-02
NP 1275-4	n-Octacosane	CPSiI5	2788	33,860	0,674	Rel_Area	674455	0	DB 16-1-02
NP 1275-4	squalene (all trans) (2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,23-hexamethyl)	CPSiI5	2799	34,110	0,372	Rel_Area	372337	0	DB 16-1-02
NP 1275-4	n-Octacosane	CPSiI5	2809	34,360	0,233	Rel_Area	233130	0	DB 16-1-02
NP 1275-4	squalene (all trans) (2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,23-hexamethyl)	CPSiI5	2842	35,170	0,06	Rel_Area	60127	0	DB 16-1-02
NP 1275-4	nonacosane	CPSiI5	2882	36,190	0,531	Rel_Area	530789	0	DB 16-1-02
NP 1275-4	nonacosane	CPSiI5	2898	36,600	0,84	Rel_Area	840223	0	DB 16-1-02
NP 1275-4	nonacosane	CPSiI5	2904	36,770	0,332	Rel_Area	332288	0	DB 16-1-02

7.7 GC-MS database resultaten monster NP 1276-3

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP 1276-3	butyl isobutylfitaat	CPSi5	1838	24,170	0,308	µg/l	1912286378	41939230	DB 16-1-02
NP 1276-3	octeen-2-zuur, methyl ester	CPSi5	1136	10,900	0,206	Rel_Area	205676	0	DB 16-1-02
NP 1276-3	hexeen-2, 3,5,5-trimethyl-	CPSi5	1154	11,330	0,522	Rel_Area	522294	0	DB 16-1-02
NP 1276-3	benzene, (3-chloropropyl)-	CPSi5	1186	12,120	0,167	Rel_Area	186542	0	DB 16-1-02
NP 1276-3	cyclohexanol, 2-4-butyl-	CPSi5	1209	12,730	0,144	Rel_Area	143836	0	DB 16-1-02
NP 1276-3	1,4-benzeendiamine	CPSi5	1227	13,200	0,177	Rel_Area	177270	0	DB 16-1-02
NP 1276-3	isopropylbenzoaat	CPSi5	1245	13,710	2,288	Rel_Area	2288093	0	DB 16-1-02
NP 1276-3	benzeen, (1,2-dimethoxyethyl)-	CPSi5	1258	14,100	0,36	Rel_Area	359745	0	DB 16-1-02
NP 1276-3	benzene, (3-chloro-1-propenyl)-	CPSi5	1262	14,220	0,556	Rel_Area	555651	0	DB 16-1-02
NP 1276-3	isobenzofuranon	CPSi5	1297	15,310	1,449	Rel_Area	1448850	0	DB 16-1-02
NP 1276-3	acetofenon, 4-methoxy-	CPSi5	1328	16,330	2,021	Rel_Area	2021349	0	DB 16-1-02
NP 1276-3	benzeen, 1,4-dichloor-2,5-dimethoxy-	CPSi5	1382	18,290	0,498	Rel_Area	498201	0	DB 16-1-02
NP 1276-3	fenol, 4-(1,1-dimethylpropyl)-	CPSi5	1394	18,760	0,23	Rel_Area	229768	0	DB 16-1-02
NP 1276-3	benzoëzuur, 2-(1-oxopropyl)-, methyl ester	CPSi5	1427	19,280	2,246	Rel_Area	2246270	0	DB 16-1-02
NP 1276-3	ethanone, 1-(2,5-dimethoxyphenyl)-	CPSi5	1468	19,830	4,762	Rel_Area	4761859	0	DB 16-1-02
NP 1276-3	benzeensulfonamide, N,4-dimethyl-N-nitroso-	CPSi5	1479	19,980	0,594	Rel_Area	593601	0	DB 16-1-02
NP 1276-3	dimethylisofitaat	CPSi5	1483	20,040	1,009	Rel_Area	1008889	0	DB 16-1-02
NP 1276-3	fenol, di-(terbutyl)-	CPSi5	1497	20,240	1,983	Rel_Area	1983428	0	DB 16-1-02
NP 1276-3	butylated hydroxytoluene	CPSi5	1505	20,340	25,37	Rel_Area	25370334	0	DB 16-1-02
NP 1276-3	benzofuranon, methyl-	CPSi5	1517	20,520	0,381	Rel_Area	380640	0	DB 16-1-02
NP 1276-3	calameneen	CPSi5	1527	20,660	0,332	Rel_Area	332386	0	DB 16-1-02
NP 1276-3	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1535	20,770	1,73	Rel_Area	1729506	0	DB 16-1-02
NP 1276-3	DEET (diethyltoluamide)	CPSi5	1552	20,970	1,19	Rel_Area	1190473	0	DB 16-1-02
NP 1276-3	phthalic acid, diethyl ester	CPSi5	1557	21,030	15,342	Rel_Area	15341642	0	DB 16-1-02
NP 1276-3	benzeensulfonamide, 2-methyl-	CPSi5	1583	21,320	0,328	Rel_Area	328389	0	DB 16-1-02
NP 1276-3	phosphoric acid tributyl ester	CPSi5	1611	21,680	0,531	Rel_Area	530555	0	DB 16-1-02
NP 1276-3	ethyl citrate	CPSi5	1616	21,730	2,388	Rel_Area	2388197	0	DB 16-1-02
NP 1276-3	cyclopentanaazijnzuur, 3-oxo-2-pentyl-, methylest	CPSi5	1623	21,810	0,223	Rel_Area	223452	0	DB 16-1-02
NP 1276-3	tris(2-chloroisopropyl)phosphate	CPSi5	1765	23,370	3,142	Rel_Area	3142456	0	DB 16-1-02
NP 1276-3	octadecane	CPSi5	1810	23,860	1,044	Rel_Area	1043932	0	DB 16-1-02
NP 1276-3	butyl isobutylfitaat	CPSi5	1838	24,170	506,7	Rel_Area	506699910	0	DB 16-1-02
NP 1276-3	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSi5	1849	24,290	5,518	Rel_Area	5518191	0	DB 16-1-02
NP 1276-3	benzeen, 1-methyldodecyl-	CPSi5	1903	24,850	0,384	Rel_Area	383614	0	DB 16-1-02
NP 1276-3	dibutyl phthalate	CPSi5	1932	25,040	307,028	Rel_Area	307027596	0	DB 16-1-02
NP 1276-3	isoalkaan (C21)	CPSi5	1987	25,690	1,421	Rel_Area	1420980	0	DB 16-1-02
NP 1276-3	heneicosaan	CPSi5	2101	26,610	1,368	Rel_Area	1368442	0	DB 16-1-02
NP 1276-3	butylpalmitaat	CPSi5	2173	27,240	1,847	Rel_Area	1846520	0	DB 16-1-02
NP 1276-3	alkaan (C22)	CPSi5	2195	27,440	2,671	Rel_Area	2670638	0	DB 16-1-02
NP 1276-3	docosane	CPSi5	2201	27,490	3,982	Rel_Area	3981873	0	DB 16-1-02
NP 1276-3	tricosaan	CPSi5	2299	28,350	3,201	Rel_Area	3201366	0	DB 16-1-02
NP 1276-3	phthalic acid, benzyl butyl ester	CPSi5	2317	28,500	3,818	Rel_Area	3817796	0	DB 16-1-02
NP 1276-3	methyldehydroabietaat	CPSi5	2345	28,730	14,414	Rel_Area	14414010	0	DB 16-1-02
NP 1276-3	adipinezuur, mono-(2-ethylhexyl) ester	CPSi5	2366	28,980	8,344	Rel_Area	8343508	0	DB 16-1-02
NP 1276-3	bis(2-ethylhexyl) phthalate	CPSi5	2523	30,120	22,71	Rel_Area	22710465	0	DB 16-1-02
NP 1276-3	hexacosaan	CPSi5	2596	30,690	3,093	Rel_Area	3093110	0	DB 16-1-02
NP 1276-3	hexacosaan	CPSi5	2619	30,970	0,071	Rel_Area	70916	0	DB 16-1-02
NP 1276-3	heptacosane	CPSi5	2684	31,450	2,406	Rel_Area	2405735	0	DB 16-1-02
NP 1276-3	heptacosane	CPSi5	2696	31,710	0,338	Rel_Area	337889	0	DB 16-1-02
NP 1276-3	heptacosane	CPSi5	2719	32,240	1,547	Rel_Area	1546716	0	DB 16-1-02
NP 1276-3	di-n-octyl phthalate	CPSi5	2723	32,330	0,342	Rel_Area	342429	0	DB 16-1-02
NP 1276-3	n-Octacosane	CPSi5	2794	34,000	1,187	Rel_Area	1186569	0	DB 16-1-02
NP 1276-3	squalene (all trans) (2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,23-hexamethyl)	CPSi5	2798	34,110	0,182	Rel_Area	181748	0	DB 16-1-02
NP 1276-3	n-Octacosane	CPSi5	2807	34,320	0,474	Rel_Area	474010	0	DB 16-1-02
NP 1276-3	n-Octacosane	CPSi5	2825	34,750	0,175	Rel_Area	174648	0	DB 16-1-02
NP 1276-3	squalene (all trans) (2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,23-hexamethyl)	CPSi5	2841	35,160	0,36	Rel_Area	359895	0	DB 16-1-02
NP 1276-3	nonacosane	CPSi5	2882	36,190	0,596	Rel_Area	596182	0	DB 16-1-02
NP 1276-3	nonacosane	CPSi5	2898	36,600	1,123	Rel_Area	1122592	0	DB 16-1-02

GC-MS database resultaten monster NP 1278-2

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP1278-2	butyl isobutylfitaat	CPSi5	1837	24,150	0,293	µg/l	1818475714	43098248	DB 16-1-02
NP1278-2	tripropyleenglycol, methyl ether	CPSi5	1127	10,710	1,089	Rel_Area	1088889	0	DB 16-1-02
NP1278-2	tripropyleenglycol, methyl ether	CPSi5	1131	10,790	0,069	Rel_Area	68537	0	DB 16-1-02
NP1278-2	tripropyleenglycol, methyl ether	CPSi5	1133	10,830	0,501	Rel_Area	501480	0	DB 16-1-02
NP1278-2	octeen-2-zuur, methyl ester	CPSi5	1137	10,920	0,158	Rel_Area	158060	0	DB 16-1-02
NP1278-2	octeen-2-zuur, methyl ester	CPSi5	1140	11,000	4,014	Rel_Area	4014223	0	DB 16-1-02
NP1278-2	cyclopropaan, 1-heptyl-2-methyl-	CPSi5	1164	11,550	0,146	Rel_Area	146297	0	DB 16-1-02
NP1278-2	bicyclo[3,1,1]heptan-2-on, 3,6,6-trimethyl-	CPSi5	1186	12,120	0,183	Rel_Area	183042	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1191	12,230	0,127	Rel_Area	126980	0	DB 16-1-02
NP1278-2	bicyclo[3,1,1]heptan-2-on, 3,6,6-trimethyl-	CPSi5	1192	12,280	5,654	Rel_Area	5654424	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1196	12,360	0,793	Rel_Area	793481	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1197	12,410	0,191	Rel_Area	191063	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1200	12,480	0,163	Rel_Area	163215	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1203	12,560	1,658	Rel_Area	1657958	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1205	12,610	0,046	Rel_Area	46441	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1208	12,680	0,19	Rel_Area	189681	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1212	12,800	0,729	Rel_Area	728836	0	DB 16-1-02
NP1278-2	ethosuximide	CPSi5	1214	12,850	0,092	Rel_Area	91641	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1220	13,020	0,725	Rel_Area	725298	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1225	13,140	0,528	Rel_Area	527602	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1228	13,240	1,199	Rel_Area	1199254	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1230	13,290	0,895	Rel_Area	895227	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1233	13,390	0,179	Rel_Area	179060	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1237	13,480	2,217	Rel_Area	2217045	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1239	13,540	0,065	Rel_Area	64710	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1241	13,610	0,428	Rel_Area	428432	0	DB 16-1-02
NP1278-2	nonaanzuur	CPSi5	1244	13,700	2,227	Rel_Area	2227030	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1265	14,300	0,156	Rel_Area	156058	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1266	14,340	0,597	Rel_Area	597226	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1269	14,420	0,911	Rel_Area	910722	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1271	14,500	0,178	Rel_Area	177628	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1275	14,600	0,578	Rel_Area	578266	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1276	14,650	3,712	Rel_Area	3712042	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1278	14,700	0,198	Rel_Area	198161	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1279	14,750	1,022	Rel_Area	1021625	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1282	14,820	0,254	Rel_Area	253641	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1284	14,880	1,307	Rel_Area	1307036	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1287	14,970	0,381	Rel_Area	380588	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1289	15,030	0,052	Rel_Area	51929	0	DB 16-1-02
NP1278-2	decaanzuur (caprinezuur)	CPSi5	1290	15,080	0,764	Rel_Area	763518	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1322	16,140	0,831	Rel_Area	831444	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1325	16,230	0,91	Rel_Area	910342	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1328	16,320	0,994	Rel_Area	993656	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1330	16,390	0,279	Rel_Area	279075	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1333	16,490	0,52	Rel_Area	519972	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1334	16,540	0,094	Rel_Area	93803	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1335	16,580	2,148	Rel_Area	2148163	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1337	16,640	0,634	Rel_Area	633875	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1339	16,700	0,1	Rel_Area	100197	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1340	16,760	0,428	Rel_Area	427570	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1344	16,880	1,624	Rel_Area	1623716	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1345	16,940	0,599	Rel_Area	599344	0	DB 16-1-02
NP1278-2	ethanol, 2-(2-butoxyethoxy)-, acetate	CPSi5	1347	17,000	2,166	Rel_Area	2165876	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1393	18,730	0,225	Rel_Area	225413	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1394	18,770	1,172	Rel_Area	1171628	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1395	18,830	0,571	Rel_Area	570927	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1397	18,890	0,822	Rel_Area	822137	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1406	19,010	14,583	Rel_Area	14582636	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1410	19,050	0,172	Rel_Area	171954	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1413	19,090	0,117	Rel_Area	117445	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1417	19,150	0,776	Rel_Area	776113	0	DB 16-1-02
NP1278-2	tetradecenen (isomeer)	CPSi5	1420	19,190	0,259	Rel_Area	258978	0	DB 16-1-02

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP1278-2	dodecaan, 1-chloor-	CPSi5	1432	19,350	0,187	Rel_Area	186873	0	DB 16-1-02
NP1278-2	dodecaan, 1-chloor-	CPSi5	1438	19,430	0,719	Rel_Area	718518	0	DB 16-1-02
NP1278-2	dodecaan, 1-chloor-	CPSi5	1442	19,490	5,417	Rel_Area	5416995	0	DB 16-1-02
NP1278-2	butaanzuur, 4-butoxy-	CPSi5	1447	19,550	0,084	Rel_Area	84069	0	DB 16-1-02
NP1278-2	butaanzuur, 4-butoxy-	CPSi5	1452	19,610	7,782	Rel_Area	7782082	0	DB 16-1-02
NP1278-2	butaanzuur, 4-butoxy-	CPSi5	1458	19,690	0,104	Rel_Area	104419	0	DB 16-1-02
NP1278-2	butaanzuur, 4-butoxy-	CPSi5	1462	19,750	0,306	Rel_Area	306308	0	DB 16-1-02
NP1278-2	butaanzuur, 4-butoxy-	CPSi5	1467	19,830	6,446	Rel_Area	6445945	0	DB 16-1-02
NP1278-2	butaanzuur, 4-butoxy-	CPSi5	1474	19,910	0,261	Rel_Area	260940	0	DB 16-1-02
NP1278-2	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1530	20,710	1,299	Rel_Area	1299236	0	DB 16-1-02
NP1278-2	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1535	20,770	1,195	Rel_Area	1194870	0	DB 16-1-02
NP1278-2	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1540	20,830	3,352	Rel_Area	3352274	0	DB 16-1-02
NP1278-2	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1545	20,890	1,231	Rel_Area	1231076	0	DB 16-1-02
NP1278-2	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1552	20,970	3,205	Rel_Area	3204850	0	DB 16-1-02
NP1278-2	N,N-bis(2-hydroxyethyl)dodecaanamide	CPSi5	1557	21,030	14,693	Rel_Area	14693472	0	DB 16-1-02
NP1278-2	alkylbenzoaat	CPSi5	1679	22,430	3,759	Rel_Area	3759304	0	DB 16-1-02
NP1278-2	alkylbenzoaat	CPSi5	1694	22,620	0,861	Rel_Area	861451	0	DB 16-1-02
NP1278-2	alkylbenzoaat	CPSi5	1698	22,670	0,524	Rel_Area	524277	0	DB 16-1-02
NP1278-2	alkylbenzoaat	CPSi5	1699	22,750	2,064	Rel_Area	2063596	0	DB 16-1-02
NP1278-2	alkylbenzoaat	CPSi5	1690	22,800	0,615	Rel_Area	614897	0	DB 16-1-02
NP1278-2	myristinezuur	CPSi5	1831	23,420	0,363	Rel_Area	362965	0	DB 16-1-02
NP1278-2	myristinezuur	CPSi5	1837	23,780	1,26	Rel_Area	1260281	0	DB 16-1-02
NP1278-2	octadeceen-5	CPSi5	1810	23,850	0,811	Rel_Area	810535	0	DB 16-1-02
NP1278-2	myristinezuur	CPSi5	1819	23,950	0,786	Rel_Area	785715	0	DB 16-1-02
NP1278-2	myristinezuur	CPSi5	1824	24,000	0,866	Rel_Area	865761	0	DB 16-1-02
NP1278-2	myristinezuur	CPSi5	1832	24,100	1,038	Rel_Area	1038495	0	DB 16-1-02
NP1278-2	myristinezuur	CPSi5	1837	24,150	464,687	Rel_Area	464686817	0	DB 16-1-02

7.9 GC-MS database resultaten monster NP 1280-1

SampleName	CompoundName	ColumnType	KovatsIndex	RetTime	Amount	Unit	Area	Height	Qcode
NP 1280-1	butyl isobutyrfitalaat	CPSi5	1838	24,170	0,27	µg/l	1671223541	40017169	DB 16-1-02
NP 1280-1	octeen-2-zuur, methyl ester	CPSi5	1136	10,890	0,166	Rel_Area	165616	0	DB 16-1-02
NP 1280-1	hexeen-2, 3,5,5-trimethyl-	CPSi5	1154	11,320	0,34	Rel_Area	339884	0	DB 16-1-02
NP 1280-1	benzene, (3-chloropropyl)-	CPSi5	1186	12,120	0,347	Rel_Area	346563	0	DB 16-1-02
NP 1280-1	dodeceen-5	CPSi5	1211	12,750	0,301	Rel_Area	300666	0	DB 16-1-02
NP 1280-1	isopropylbenzooat	CPSi5	1245	13,710	3,453	Rel_Area	3453260	0	DB 16-1-02
NP 1280-1	benzeen, (1,2-dimethoxyethyl)-	CPSi5	1258	14,100	0,819	Rel_Area	819332	0	DB 16-1-02
NP 1280-1	mono-ethyl adipaat	CPSi5	1300	15,410	0,641	Rel_Area	640856	0	DB 16-1-02
NP 1280-1	1,1'-bicyclohexyl	CPSi5	1311	15,760	1,667	Rel_Area	1667068	0	DB 16-1-02
NP 1280-1	benzopyran-2-on	CPSi5	1417	19,150	1,358	Rel_Area	1357517	0	DB 16-1-02
NP 1280-1	ethanone, 1-(2,5-dimethoxyphenyl)-	CPSi5	1468	19,840	5,114	Rel_Area	5114228	0	DB 16-1-02
NP 1280-1	butylated hydroxytoluene	CPSi5	1505	20,350	54,902	Rel_Area	54901980	0	DB 16-1-02
NP 1280-1	methyl-benzeensulfonaat	CPSi5	1510	20,420	5,527	Rel_Area	5527417	0	DB 16-1-02
NP 1280-1	phthalic acid, diethyl ester	CPSi5	1558	21,040	20,836	Rel_Area	20836458	0	DB 16-1-02
NP 1280-1	phosphoric acid tributyl ester	CPSi5	1613	21,710	4,74	Rel_Area	4740000	0	DB 16-1-02
NP 1280-1	fenol, 4-(2,2,3,3-tetramethylbutyl)-	CPSi5	1620	21,780	11,652	Rel_Area	11651524	0	DB 16-1-02
NP 1280-1	phenol, 2,4-bis(1,1-dimethylpropyl)-	CPSi5	1666	22,240	4,176	Rel_Area	4176082	0	DB 16-1-02
NP 1280-1	heptadecaan	CPSi5	1694	22,620	1,511	Rel_Area	1511016	0	DB 16-1-02
NP 1280-1	benzeen, ethylfenoxo-	CPSi5	1698	22,670	2,039	Rel_Area	2039193	0	DB 16-1-02
NP 1280-1	fenol, tetramethylbutyl-	CPSi5	1702	22,730	0,598	Rel_Area	597905	0	DB 16-1-02
NP 1280-1	tetradecaan, 2-methyl-	CPSi5	1751	23,340	1,677	Rel_Area	1677028	0	DB 16-1-02
NP 1280-1	octadecaan	CPSi5	1810	23,860	3,251	Rel_Area	3250669	0	DB 16-1-02
NP 1280-1	benzoic acid, 2-hydroxy-, phenylmethyl ester	CPSi5	1819	23,950	1,852	Rel_Area	1852265	0	DB 16-1-02
NP 1280-1	butyl isobutyrfitalaat	CPSi5	1838	24,170	461,426	Rel_Area	461426436	0	DB 16-1-02
NP 1280-1	dibutyl phthalate	CPSi5	1933	25,050	282,019	Rel_Area	282018830	0	DB 16-1-02
NP 1280-1	isoalkaan (C21)	CPSi5	1996	25,760	0,259	Rel_Area	259025	0	DB 16-1-02
NP 1280-1	heneicosaan	CPSi5	2081	26,440	1,352	Rel_Area	1351532	0	DB 16-1-02
NP 1280-1	heneicosaan	CPSi5	2101	26,610	1,566	Rel_Area	1566440	0	DB 16-1-02
NP 1280-1	docosane	CPSi5	2201	27,490	4,076	Rel_Area	4075882	0	DB 16-1-02
NP 1280-1	benzofenon, p-chloor-p'-hydroxy-	CPSi5	2208	27,560	3,997	Rel_Area	3997232	0	DB 16-1-02
NP 1280-1	tricosaan	CPSi5	2299	28,350	3,204	Rel_Area	3203921	0	DB 16-1-02
NP 1280-1	methyldehydroabietaat	CPSi5	2345	28,730	11,414	Rel_Area	11414461	0	DB 16-1-02
NP 1280-1	adipinezuur, mono-(2-ethylhexyl) ester	CPSi5	2366	28,980	6,211	Rel_Area	6211481	0	DB 16-1-02
NP 1280-1	hexacosaan	CPSi5	2614	30,930	0,252	Rel_Area	251662	0	DB 16-1-02
NP 1280-1	heptacosane	CPSi5	2684	31,460	3,612	Rel_Area	3612471	0	DB 16-1-02
NP 1280-1	heptacosane	CPSi5	2696	31,710	0,488	Rel_Area	487767	0	DB 16-1-02
NP 1280-1	n-Octacosane	CPSi5	2794	34,000	1,272	Rel_Area	1271977	0	DB 16-1-02
NP 1280-1	n-Octacosane	CPSi5	2807	34,330	0,592	Rel_Area	592095	0	DB 16-1-02
NP 1280-1	n-Octacosane	CPSi5	2826	34,780	0,162	Rel_Area	162055	0	DB 16-1-02
NP 1280-1	squalene (all trans) (2,6,10,14,18,22-Tetracosahexaene, 2,6,10,15,19,23-hexamethyl)	CPSi5	2841	35,150	0,134	Rel_Area	133619	0	DB 16-1-02
NP 1280-1	nonacosane	CPSi5	2882	36,190	0,87	Rel_Area	869959	0	DB 16-1-02
NP 1280-1	nonacosane	CPSi5	2898	36,620	1,332	Rel_Area	1332349	0	DB 16-1-02