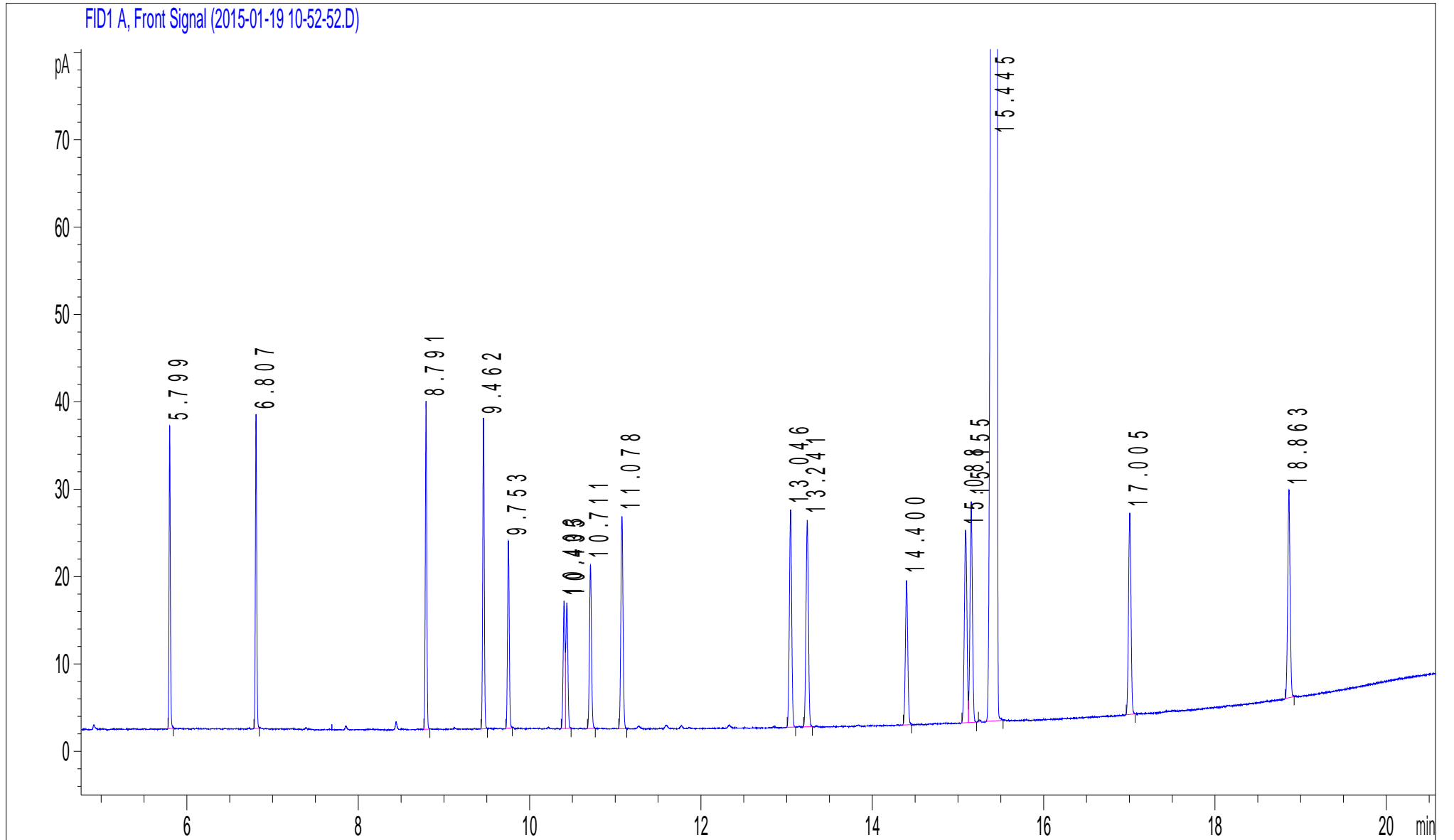


# Instrumentation Conditions

- GC: Agilent 7890 w/ FID
- Cat no: *GsBP-5MS 30m x 0.25mm x 0.25um*
- Oven: Oven: 80 °C (hold 0.5 min) to 160 °C at 30 °C/min, to 240 °C(hold 2min) at 15 °C /min to 320 °C(hold 1min) at 8 °C/min.
- Carrier: Hydrogen, column flow 1.5ml/min
- Inlet: Split, 275 °C, split flow 60ml/min
- Detector: FID 325 °C
- Inject volume: EPA 8061 standard 1ul

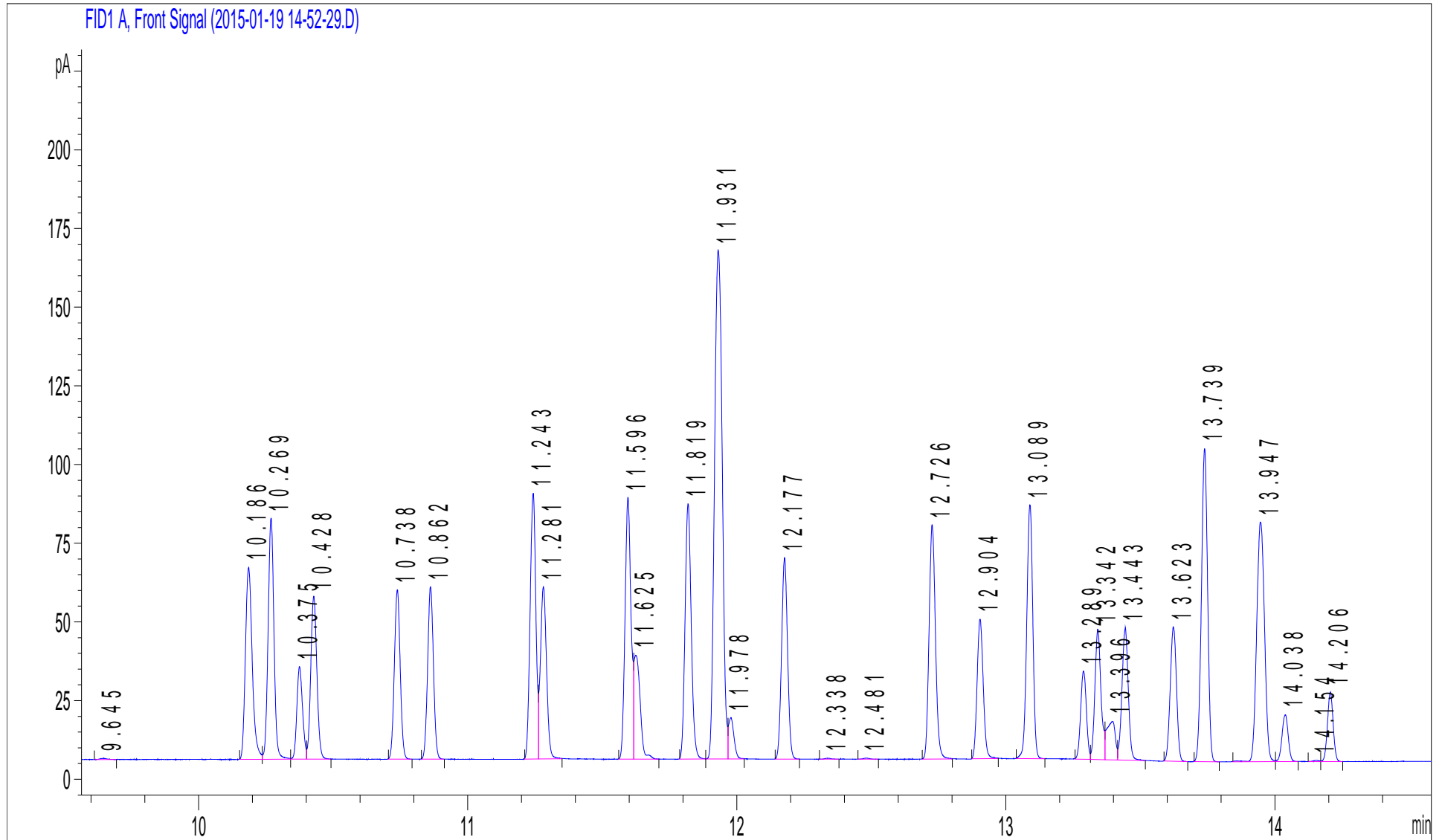


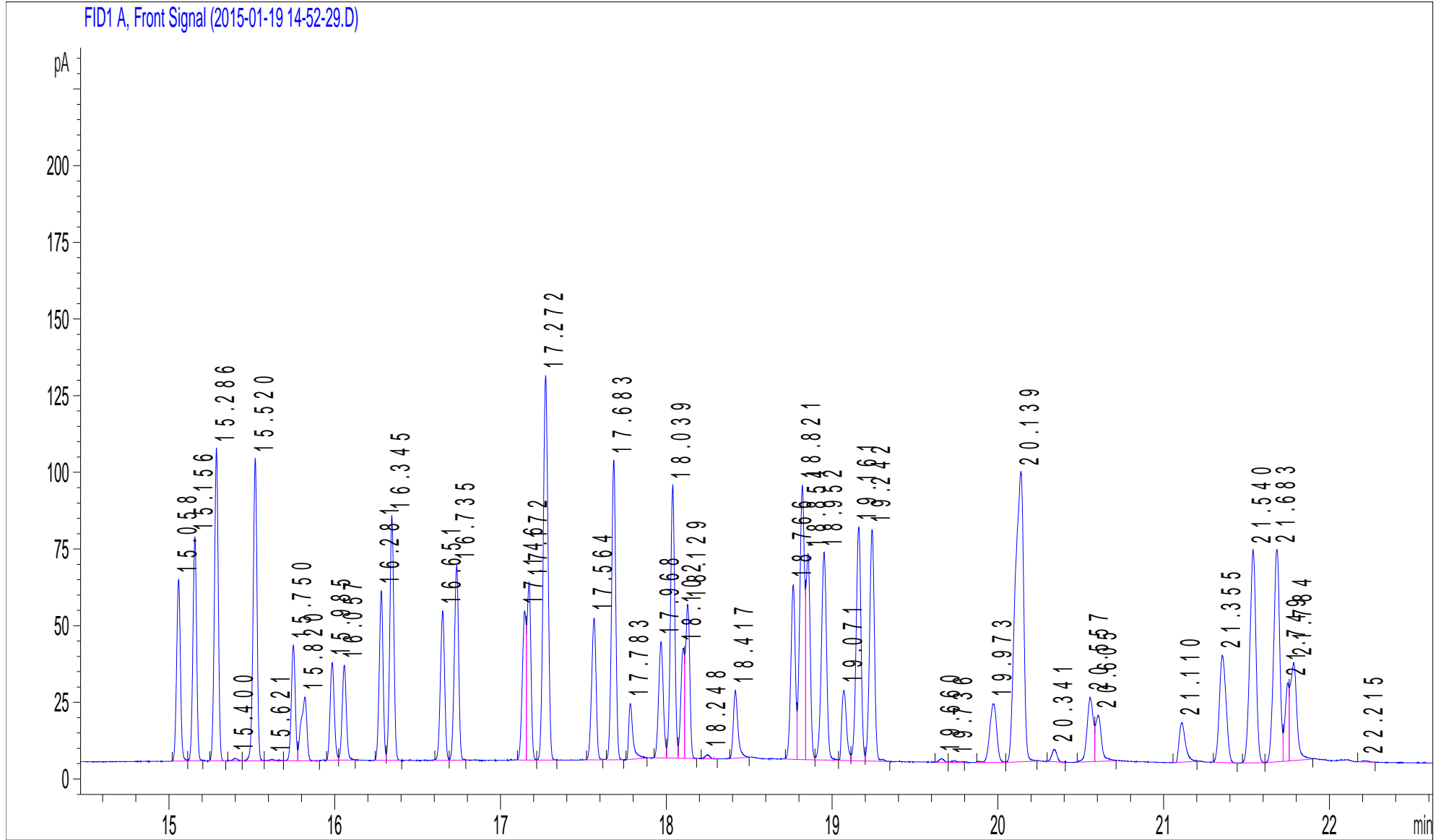
Peak	Compound	Chinese Name	Elution Time	Resolution
1	Dimethylphthalate	邻苯二甲酸二甲酯	5.799	
2	Diethylphthalate	邻苯二甲酸二乙酯	6.807	
3	Phthalic acid diisobutyl ester	邻苯二甲酸二异丁酯	8.791	
4	Di- <i>n</i> -butylphthalate	邻苯二甲酸二丁酯	9.462	
5	Bis(2-methoxyethyl)phthalate	邻苯二甲酸二甲氧乙酯	9.753	
6	Bis(4-methyl-2-pentyl) phthalate isomer	邻苯二甲酸二甲氧乙酯异构体	10.403	
7	Bis(4-methyl-2-pentyl)phthalate	邻苯二甲酸双-4-甲基-2-戊酯	10.435	1.35
8	Bis(2-ethoxyethyl)phthalate	邻苯二甲酸二乙氧乙酯	10.711	
9	Diamyl phthalate	邻苯二甲酸二戊酯	11.078	
10	Di- <i>n</i> -hexyl phthalate	邻苯二甲酸二己酯	13.046	
11	Benzyl butyl phthalate	邻苯二甲酸丁苄酯	13.241	
12	Bis(2- <i>n</i> -butoxyethyl)phthalate	邻苯二甲酸二丁氧乙酯	14.400	
13	Phthalic acid dicyclohexyl ester	邻苯二甲酸二环己酯	15.088	
14	Bis(2-ethylhexyl)phthalate	邻苯二甲酸二辛酯	15.155	2.07
15	Dipentylphthalate	邻苯二甲酸二戊酯	15.445	
16	Di- <i>n</i> -octyl phthalate	邻苯二甲酸二辛酯	17.005	
17	Di-nonyl phthalate	邻苯二甲酸二壬酯	18.863	

# Instrumentation Conditions

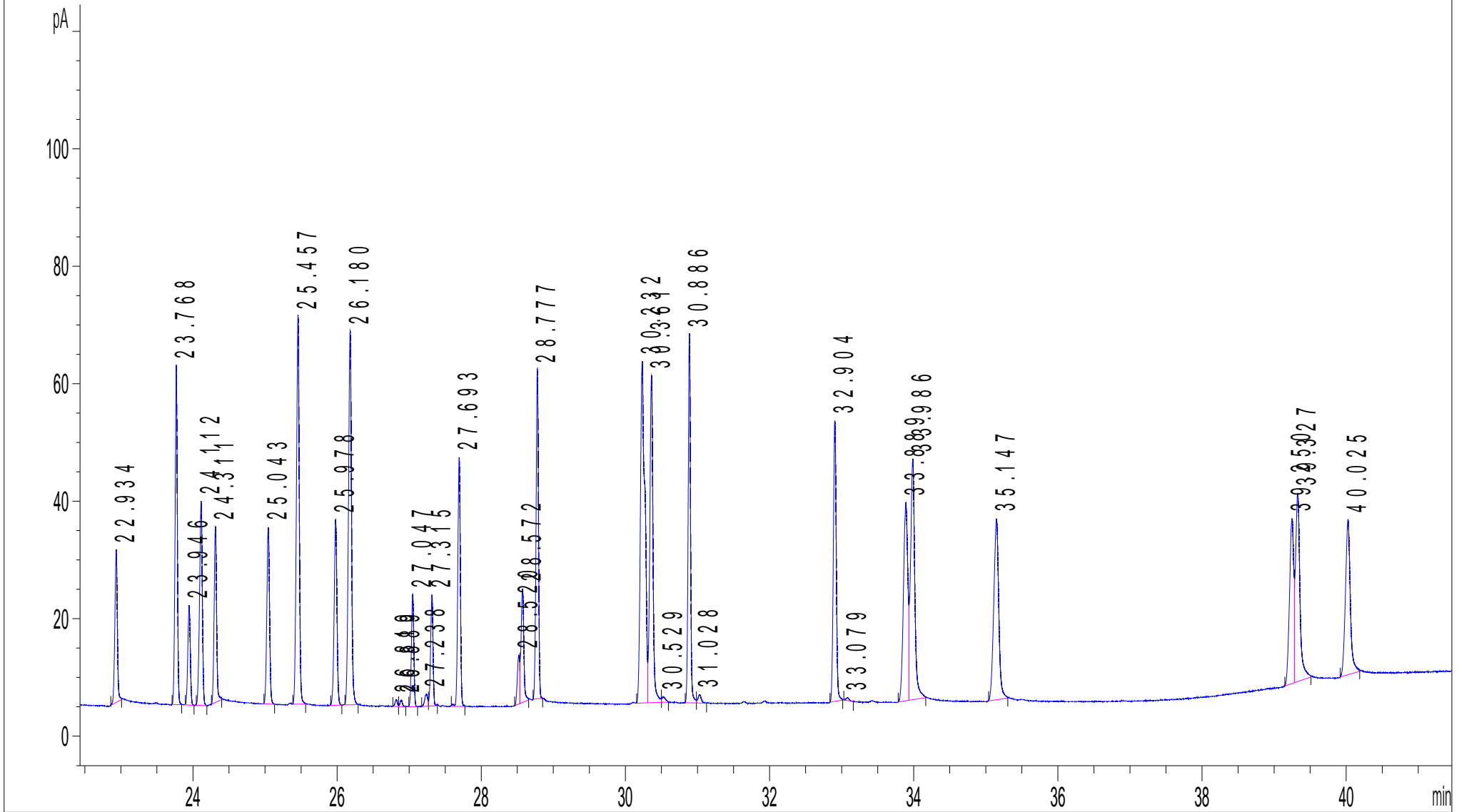
- GC: Agilent 7890 w/ FID
- Cat no: *GsBP-5MS 30m x 0.25mm x 0.25um*
- Oven: 40 °C (hold 5 min) to 200 °C 2min at 12 °C/min, to 290 °C(hold 5min) at 8 °C /min to 325 °C(hold 10min) at 20 °C/min.
- Carrier: Hydrogen, constant flow 1.5ml/min
- Inlet: Split, 275 °C, split flow 60ml/min
- Detector: FID 325 °C
- Inject volume: EPA 8270 standard 1ul







FID1 A, Front Signal (2015-01-19 14-52-29.D)





Peak	Compound	Chinese Name	Elution Time	Resolution
1	Pyridine	吡啶	4.076	
2	Methyl methanesulfonate	甲磺酸甲酯	7.546	
3	Ethyl methanesulfonate	甲磺酸乙酯	9.278	
4	Phenol	苯酚	10.186	
5	Aniline	苯胺	10.269	3.22
6	Bis(2-chloroethyl)ether	2,2'-二氯乙醚	10.375	4.52
7	2-Chlorophenol	2-氯苯酚	10.428	2.22
8	1,3-Dichlorobenzene	1,3-二氯苯	10.738	
9	1,4-Dichlorobenzene	1,4-二氯苯	10.862	5.22
10	2-Methylphenol ( <i>o</i> -cresol)	2-甲基苯酚	11.243	
11	1,2-Dichlorobenzene	1,2-二氯苯	11.243	0.00
12	Benzyl alcohol	苯甲醇	11.281	1.59
13	4-Methylphenol ( <i>p</i> -cresol)	对甲酚	11.596	
14	3-Methylphenol ( <i>m</i> -cresol)	间甲酚	11.596	0.00
15	2,2'-Oxybis(1-chloropropane)	二氯异丙醚	11.625	1.22
16	Acetophenone	苯乙酮	11.819	
17	N-Nitrosodi-n-propylamine	亚硝基正丙胺	11.931	3.93
18	Hexachloroethane	六氯乙烷	11.978	1.71
19	Nitrobenzene	硝基苯	12.177	
20	Isophorone	异佛尔酮	12.726	

Peak	Compound	Chinese Name	Elution Time	Resolution
21	2-Nitrophenol	2-硝基酚	12.904	
22	2,4-Dimethylphenol	2,4-二甲基苯酚	13.089	
23	O,O,O-Triethyl phosphorothioate	三乙基硫代磷酸酯	13.289	
24	Bis(2-chloroethoxy)methane	双(2-氯乙氧基)	13.342	2.21
25	Benzoic acid	苯甲酸	13.396	1.85
26	2,4-Dichlorophenol	2,4-二氯苯酚	13.443	1.63
27	2,6-Dichlorophenol	2,6-二氯苯酚	13.443	0.00
28	1,2,4-Trichlorobenzene	1,2,4-三氯苯	13.623	
29	Naphthalene	萘	13.739	4.61
30	4-Chloroaniline	4-氯苯胺	13.947	
31	Hexachloropropene	六氯丙烯	14.038	3.14
32	Hexachlorobutadiene	六氯丁二烯	14.206	
33	N-Nitrosodimethylamine	N-亚硝基二甲胺	15.058	
34	4-Chloro-3-methylphenol	4-氯-3-甲酚	15.156	3.97
35	Isosafrole (cis & trans)	异黄樟素	15.286	5.14
36	2-Methylnaphthalene	2-甲基萘	15.520	
37	1-Methylnaphthalene	1-甲基萘	15.750	
38	Hexachlorocyclopentadiene	六氯环戊二烯	15.820	2.32
39	1,2,4,5-Tetrachlorobenzene	1,2, 4,5-四氯苯	15.820	0.00
40	Safrole	黄樟素	15.985	5.46

Peak	Compound	Chinese Name	Elution Time	Resolution
41	2,4,5-Trichlorophenol	2,4,5-三氯苯酚	16.057	2.73
42	2-Chloronaphthalene	2-氯萘	16.281	
43	2-Nitroaniline	2-硝基苯胺	16.345	2.45
44	1,4-Naphthoquinone	1,4-萘醌	16.651	
45	1,3-Dinitrobenzene	间二硝基苯	16.735	2.95
46	Dimethylphthalate	邻苯二甲酸二甲酯	17.146	
47	2,6-Dinitrotoluene	2,6-二硝基甲苯	17.172	1.05
48	Acenaphthylene	茚烯	17.272	3.50
49	3-Nitroaniline	3-硝基苯胺	17.564	
50	Acenaphthene	茚萘	17.683	4.25
51	2,4-Dinitrophenol	2,4-二硝基苯酚	17.783	3.76
52	Pentachlorobenzene	五氯苯	17.968	
53	4-Nitrophenol	4-硝基苯酚	18.039	2.36
54	Dibenzofuran	二苯并呋喃	18.102	2.46
55	2,4-Dinitrotoluene	2,4-二硝基甲苯	18.129	1.07
56	2,3,4,6-Tetrachlorophenol	2,3,4,6-四氯苯酚	18.417	
57	Diethylphthalate	邻苯二甲酸二乙酯	18.766	
58	Fluorene	芴	18.821	1.88
59	4-Chlorophenyl phenyl ether	对氯二苯醚	18.854	1.19
60	Zinophos (Thionazine)	硫磷嗪	18.952	3.25

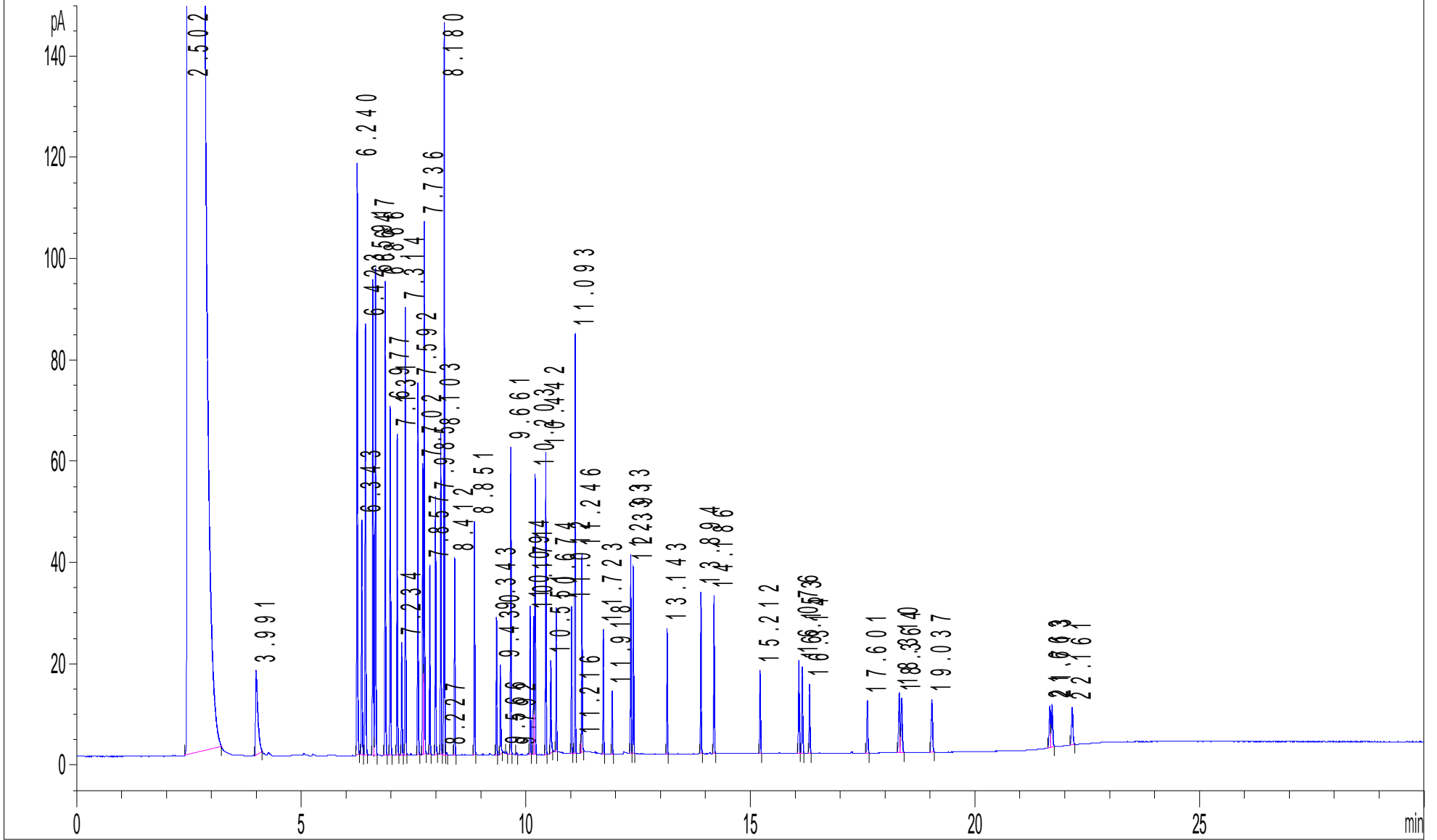
Peak	Compound	Chinese Name	Elution Time	Resolution
61	4-Nitroaniline	4-硝基苯胺	18.952	0.00
62	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	4,6-二硝基-2-甲基苯酚	19.071	3.67
63	Diphenylamine	二苯胺	19.161	2.81
64	Azobenzene	偶氮苯	19.242	2.51
65	2,4,6-Trichlorophenol	2,4,6-三氯苯酚	19.242	0.00
66	Diallate	燕麦敌 (二氯烯丹)	19.973	
67	1,3,5-Trinitrobenzene	1,3,5-三硝基苯	20.139	3.50
68	Phorate	甲拌磷	20.139	0.00
69	4-Bromophenyl phenyl ether	对溴二苯醚	20.341	4.88
70	Phenacetin	非那西汀	20.557	
71	Diallate isomer	燕麦敌 (二氯烯丹) 异构体	20.605	1.28
72	Hexachlorobenzene	六氯苯	21.110	
73	Dimethoate	乐果	21.355	
74	Pentachlorophenol	五氯苯酚	21.355	0.00
75	Pentachloronitrobenzene (quintozene)	五氯硝基苯	21.540	4.55
76	Pronamide (Propyzamide)	拿草特	21.683	3.75
77	Dinoseb	地乐酚	21.749	2.11
78	Phenanthrene	菲	21.784	1.12
79	Disulfoton	乙拌磷	22.934	
80	Anthracene	蒽	22.934	0.00
81	Methyl parathion	甲基对硫磷	23.768	
82	Di-n-butyl phthalate	邻苯二甲酸二丁酯	23.946	4.98

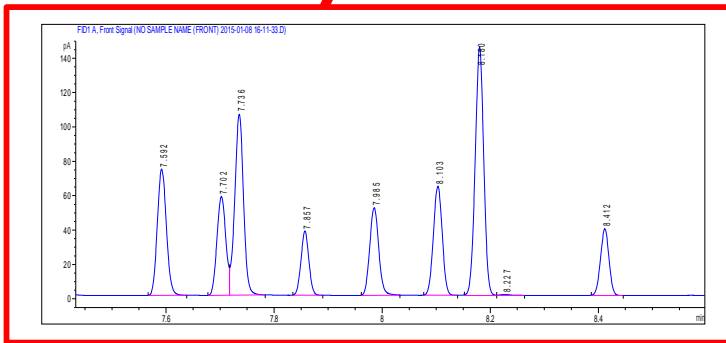
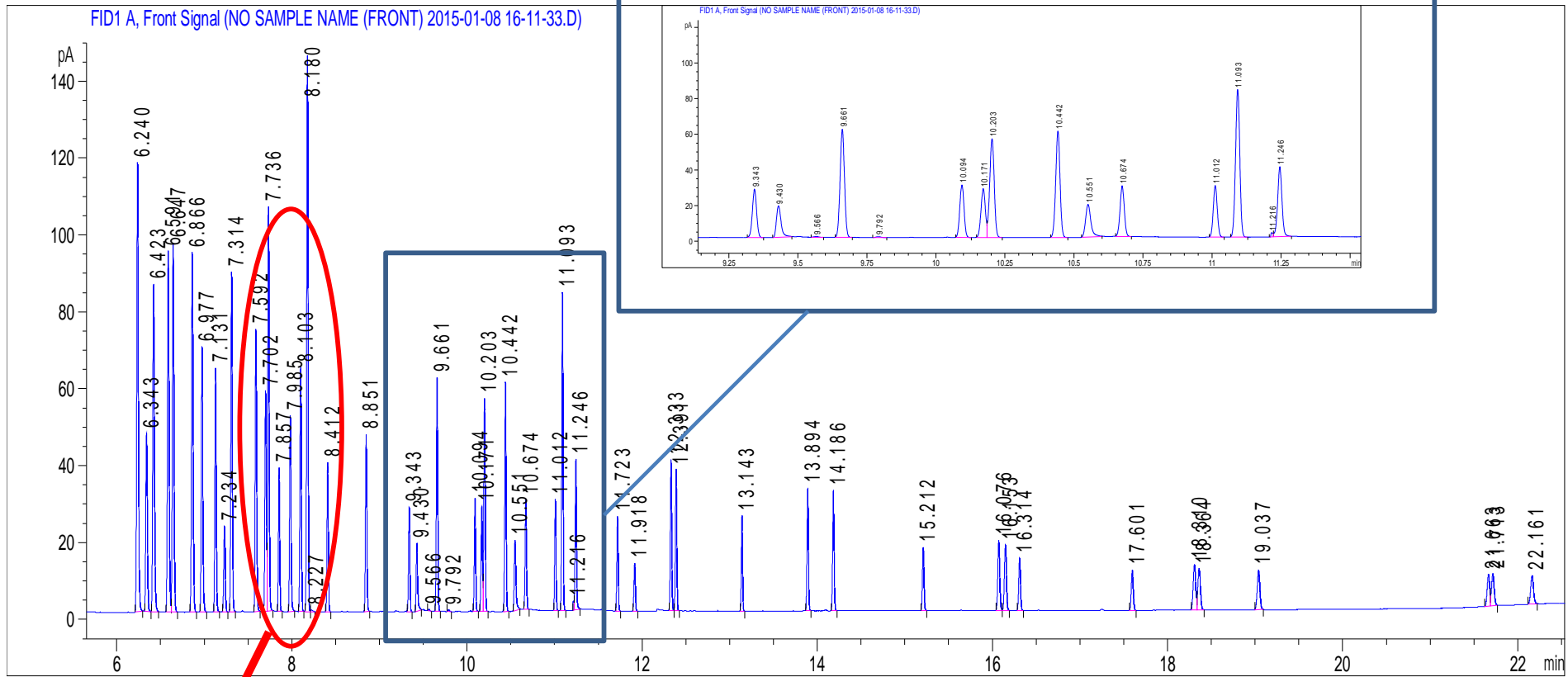
Peak	Compound	Chinese Name	Elution Time	Resolution
83	4-Nitroquinoline-1-oxide	4-硝基喹啉氧化物	24.112	4.29
84	Parathion (ethyl parathion)	乙基对硫磷	24.311	
85	Isodrin	异艾氏剂	25.043	
86	Fluoranthene	荧蒽	25.457	
87	Benzidine	联苯胺	25.978	
88	Pyrene	芘	26.180	4.63
89	Aramite	杀螨特	27.047	
90	Aramite isomer	杀螨特异构体	27.315	
91	Chlorobenzilate	杀螨酯	27.693	
92	Famphur	氨磺磷	28.520	
93	Kepone	十氯酮	28.572	1.38
94	Benzyl butyl phthalate	邻苯二甲酸丁基苯酯	28.777	
95	Benz(a)anthracene	苯并(a)蒽	30.232	
96	3,3'-Dichlorobenzidine	3,3'-二氯联苯胺	30.232	0.00
97	Chrysene	蒽	30.361	2.37
98	Bis(2-ethylhexyl)phthalate	邻苯二甲酸二(2-乙基己)酯	30.886	
99	Di-n-octyl phthalate	酞酸二辛酯	32.904	
100	Benzo(b)fluoranthene	苯并(b)荧蒽	33.889	
101	Benzo(k)fluoranthene	苯并(k)荧蒽	33.986	1.50
102	Benzo(a)pyrene	苯并(a)芘	35.147	
103	Indeno(1,2,3-cd)pyrene	茚并(1,2,3-cd)芘	39.250	
104	Dibenz[a,h]anthracene	二苯并(a,h)蒽	39.327	1.25
105	Benzo(ghi)perylene	苯并(ghi)芘	40.025	

# Instrumentation Conditions

- GC: Agilent 7890 w/ FID
- Cat no: GsBP-5MS 30m x 0.25mm x 0.25um
- Oven: 35 ° C (hold 1 min) to 270 ° C at 18 ° C/min to 305 ° C at 5 ° C/min to 320 ° C at 25 ° C/min (hold 1 min)
- Carrier: Hydrogen, constant flow 1 ml/min
- Inlet: Split, 275 °C, pulsed splitless (hold 0.3 min)
- Detector: FID 325 °C
- Inject volume: Semivolatiles MegaMix, EPA Method 625 mix 1ul 100ppm

FID1 A, Front Signal (NO SAMPLE NAME (FRONT) 2015-01-08 16-11-33.D)







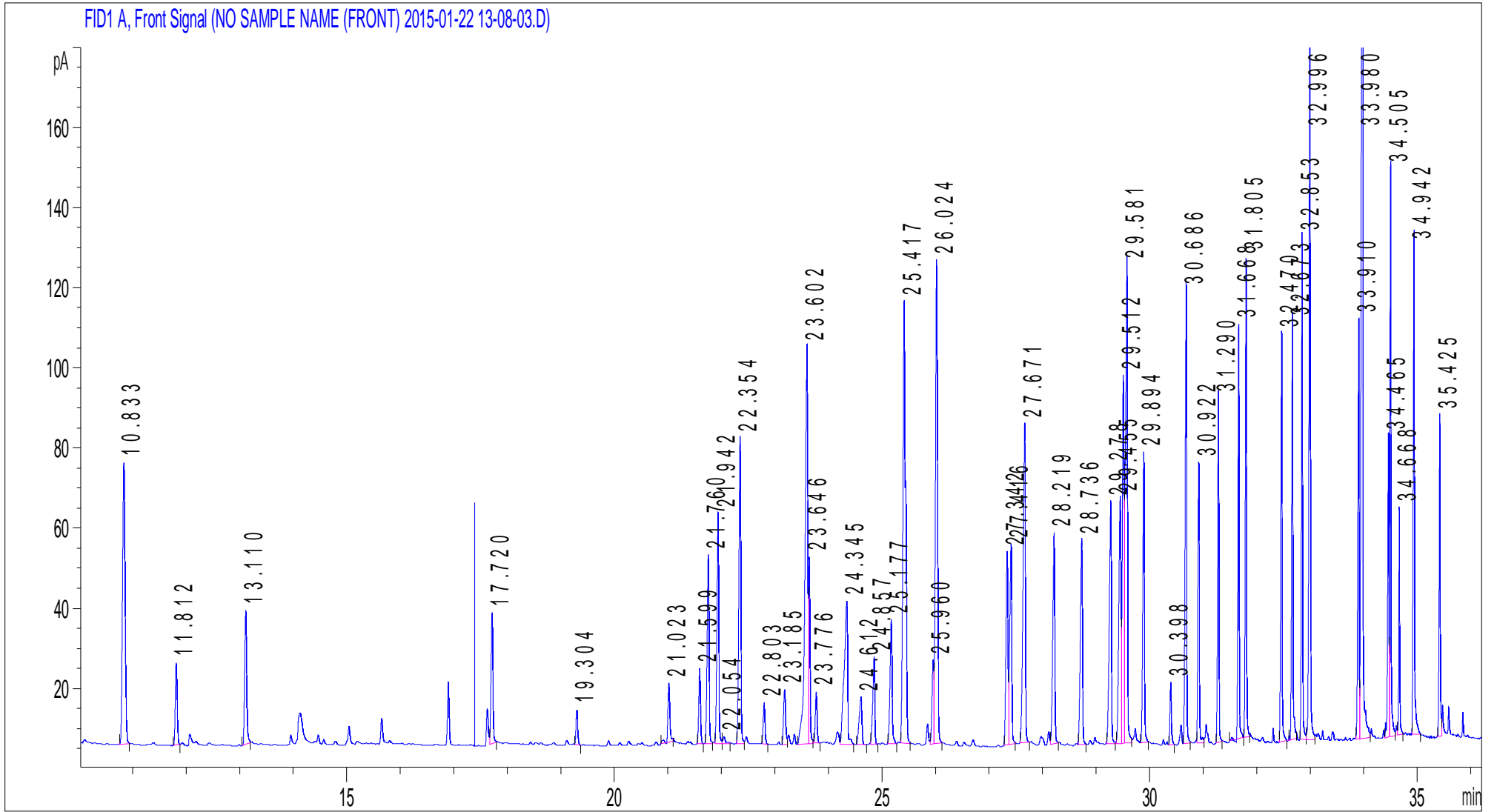
Peak	Compound	Elution Time
1	N-Nitrosodimethylamine	3.991
2	Phenol	6.240
3	Bis(2-chloroethyl)ether	6.343
4	2-Chlorophenol	6.423
5	1,3-Dichlorobenzene	6.591
6	1,4-Dichlorobenzene	6.647
7	1,2-Dichlorobenzene	6.866
8	2,2'-Oxybis(1-chloropropane)	6.977
9	N-Nitroso-di- <i>n</i> -propylamine	7.131
10	Hexachloroethane	7.234
11	Nitrobenzene	7.314
12	Isophorone	7.592
13	2-Nitrophenol	7.702
14	2,4-Dimethylphenol	7.736
15	Bis(2-chloroethoxy)methane	7.857
16	2,4-Dichlorophenol	7.985
17	1,2,4-Trichlorobenzene	8.103
18	Naphthalene	8.180
19	Hexachloro-1,3-butadiene	8.412
20	4-Chloro-3-methylphenol	8.851

Peak	Compound	Elution Time
21	Hexachlorocyclopentadiene	9.343
22	2,4,6-Trichlorophenol	9.430
23	2-Chloronaphthalene	9.661
24	Dimethylphthalate	10.094
25	2,6-Dinitrotoluene	10.171
26	Acenaphthylene	10.203
27	Acenaphthene	10.442
28	2,4-Dinitrophenol *	10.442
29	4-Nitrophenol	10.551
30	2,4-Dinitrotoluene	10.674
31	Diethylphthalate	11.012
32	Fluorene	11.093
33	4-Chlorophenyl phenyl ether *	11.093
34	4,6-Dinitro-2-methylphenol (Dinitro- <i>o</i> -cresol)	11.216
35	Diphenylamine	11.246
36	4-Bromophenyl phenyl ether	11.723
37	Hexachlorobenzene *	11.723
38	Pentachlorophenol	11.918
39	Phenanthrene	12.333

Peak	Compound	Elution Time
40	Anthracene	12.391
41	Di- <i>n</i> -butylphthalate	13.143
42	Fluoranthene	13.894
43	Pyrene	14.186
44	Benzyl butyl phthalate	15.212
45	Benz(a)anthracene	16.076
46	Chrysene	16.153
47	Bis(2-ethylhexyl)phthalate	16.314
48	Di- <i>n</i> -octylphthalate	17.601
49	Benzo(b)fluoranthene	18.310
50	Benzo(k)fluoranthene	18.364
51	Benzo(a)pyrene	19.037
52	Indeno(1,2,3-cd)pyrene	21.663
53	Dibenz(a,h)anthracene	21.713
54	Benzo(ghi)perylene	22.161

# Instrumentation Conditions

- GC: Agilent 7890 w/ FID
- Cat no: *GsBP-5MS 30m x 0.25mm x 0.25um*
- Oven: 60 ° C (1 min.), 5 ° C/min to 200 ° C, 15 ° C/min to 300 ° C (5 min.)
- Carrier: Hydrogen, constant flow 1.5ml/min
- Inlet: Split, 275 °C, 2.0 µL, splitless (0.75 min.)
- Detector: FID 325 °C
- Inject volume: EPA 8141 standard 1ul



Peak	Compound	Elution Time	Resolution
1	Dichlorvos	10.833	
2	Hexamethyl phosphoramide (HMPA)	11.812	
3	1-Bromo-2-nitrobenzene (I.S.)*	13.11	
4	Mevinphos isomers	17.72	
5	Trichlorfon	19.304	
6	Tetraethyl pyrophosphate (TEPP)	21.023	
7	Thionazin (Zinophos)	21.599	
8	Demeton-O	21.76	4.26
9	Ethoprop	21.942	4.68
11	Naled	22.054	2.66
12	Dicrotophos	22.354	
13	Sulfotepp	22.803	
14	Monocrotophos	23.185	
15	Phorate	23.602	
16	Dimethoate	23.776	3.95
17	Simazine	24.345	
18	Atrazine	24.612	4.51
19	Dioxathion	24.857	
20	Terbufos	25.177	

Peak	Compound	Elution Time	Resolution
21	Fonophos (Dyfonate)	25.417	
22	Diazinon	25.96	
23	Disulfoton	26.024	1.67
24	Phosphamidon	27.342	
25	Dichlorofenthion	27.416	1.84
26	Methyl chloropyrifos	27.671	
27	Methyl parathion	28.219	
28	Ronnel	28.736	
29	Fenitrothion	29.278	
30	Malathion	29.455	3.99
31	Aspon	29.512	1.47
32	Chloropyrifos*	29.512	0.00
33	Fenthion	29.581	1.92
34	Ethyl parathion*	29.581	0.00
35	Trichloronate	29.894	
36	Chlorfenvinphos	30.686	
37	Crotoxyphos	30.922	
38	Stirophos	31.29	
39	Tokuthion	31.668	

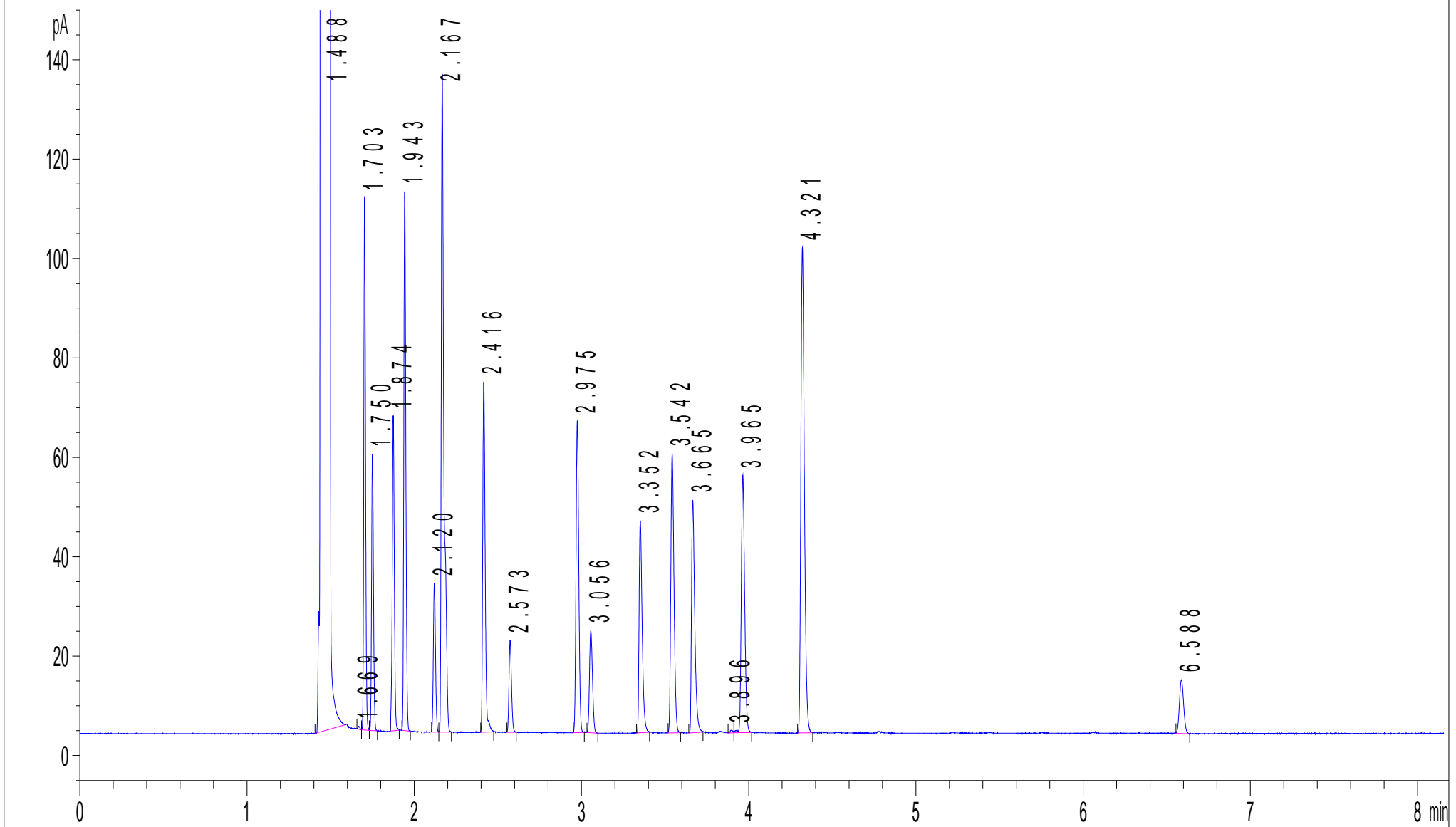
Peak	Compound	Elution Time	Resolution
40	DEF DEF (from oxidation of Merphos in the injection port)	31.805	
41	Fensulfothion	32.47	
42	Ethion	32.673	
43	Bolstar	32.853	
44	Famphur	32.996	
45	Carbophenothion	32.996	0.00
46	Phosmet	33.91	
47	EPN	33.98	2.49
48	Leptophos	34.465	
49	Methyl azinphos	34.505	1.72
50	Tri-o-cresyl phosphate (TOCP)	34.668	
51	Ethyl azinphos	34.942	
52	Coumaphos	35.425	



# Instrumentation Conditions

- GC: Agilent 7890 w/ FID
- Cat no: *GsBP-5MS 30m x 0.25mm x 0.25um*
- Oven: 40 ° C (hold 1 min.) to 325 ° C (hold 10 min ) at 5° C/min
- Carrier: Hydrogen, constant flow 1.5ml/min
- Inlet: Split, 275 °C, split ratio 60: 1
- Detector: FID 325 °C
- Inject volume: EPA 502.2 standard 1ul

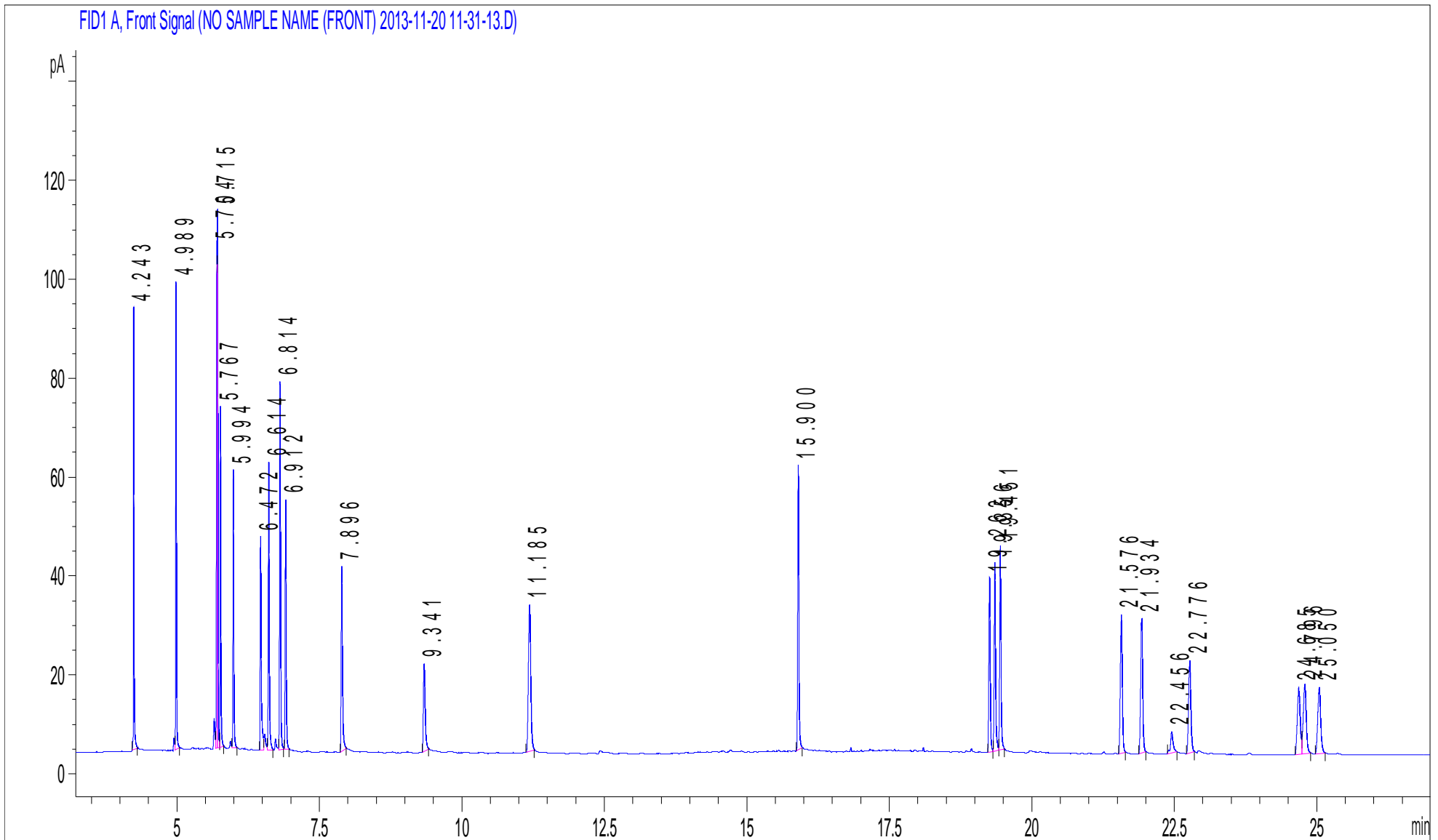
FID1 A, Front Signal (NO SAMPLE NAME (FRONT) 2015-01-20 15-35-25.D)



Peak	Compound	Elution Time	Resolution
1	1,1-dichloroethene	1.703	
2	Methylene chloride (dichloromethane)	1.750	4.02
3	trans-1,2-Dichloroethene	1.874	
4	1,1-Dichloroethane	1.943	5.21
5	2,2-Dichloropropane	2.120	
6	chloroform	2.167	3.07
7	1,1,1-trichloroethane	2.416	
8	carbon tetrachloride	2.573	
9	Trichloroethene	2.975	
10	bromodichloromethane	3.056	4.32
11	1,4-Dioxane	3.352	
12	cis-1,3-Dichloropropene	3.542	
13	trans-1,3-Dichloropropene	3.665	
14	1,3-Dichloropropane	3.965	
15	1,1,2-Trichloroethane	4.321	
16	bromoform	6.588	

# Instrumentation Conditions

- GC: Agilent 7890 w/ FID
- Cat no: *GsBP-5MS 30m x 0.25mm x 0.25um*
- Oven: 50 ° C (hold 0.5 min.) to 150 ° C (hold 8 min ) at 20° C/min to 230 ° C (hold 20 min ) at 20° C/min to 260 ° C (hold 5 min )
- Carrier: Hydrogen, constant flow 1.5ml/min
- Inlet: Split, 275 °C, split ratio 60: 1
- Detector: FID 325 °C
- Inject volume: azo dye1ul



Peak	Compound	Chinese Name	Elution Time	Resolution
1	1,4-benzendiamine	苯胺	4.243	
2	2,4,5-Trimethylaniline	1,4-苯二胺	4.989	
3	2,4-Toluylenediamine	邻甲苯胺	5.704	
4	2,4-Diaminoanisole	2,4-二甲基苯胺	5.715	0.86
5	2,4-Xylidine	2,6-二甲基苯胺	5.767	3.61
6	2,6-Xylidine	邻氨基苯甲醚/2-甲氧基苯胺	5.994	
7	p-Cresidine	对氯苯胺	6.472	
8	2-Naphthylamine	2-甲氧基-5-甲基苯胺	6.614	
9	4,4'-Methylene-bis-(2-Chloroaniline)	2,4,5-三甲基苯胺	6.814	
10	3,3'-Dichlorobenzidine	4-氯邻甲苯胺	6.912	4.95
11	3,3'-Dimethyl-4,4'-diaminobiphenylmethane	2,4-二氨基甲苯	7.896	
12	3,3'-Dimethylbenzidine	2,4-二氨基苯甲醚	9.341	

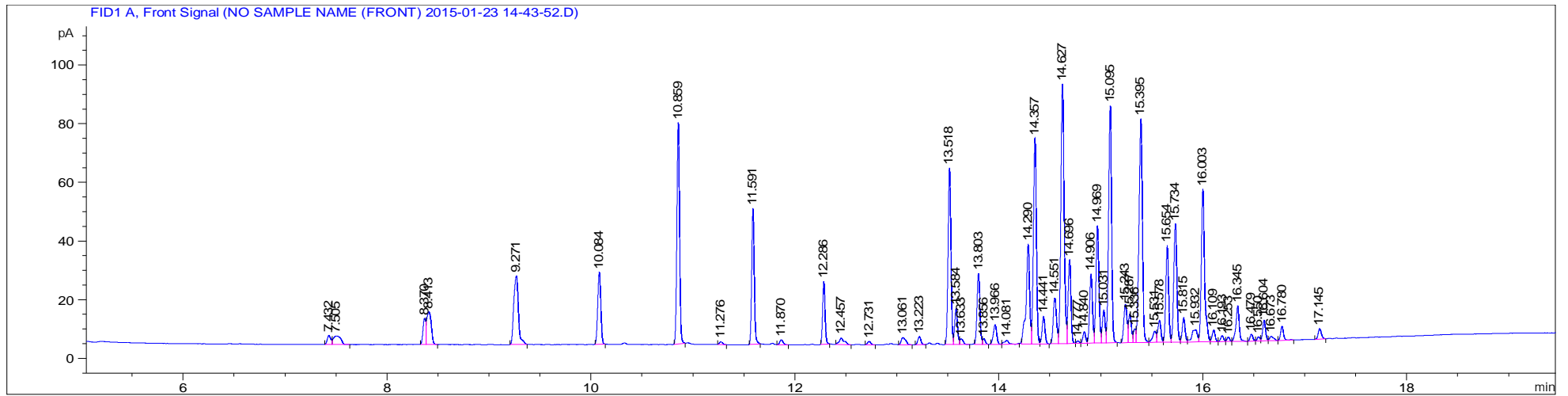
Peak	Compound	Chinese Name	Elution Time	Resolution
13	3,3'-Dimethoxybenzidine	2-萘胺	11.185	
14	4,4'-Diaminobiphenylmethane	4-氨基联苯	15.9	
15	4,4'-Thiodianiline	4,4'-二氨基二苯醚	19.262	
16	4,4'-Oxydianiline	联苯胺	19.356	3.71
17	4-Aminobiphenyl	3,3'-二氯-4,4'-二氨基二苯甲烷	19.451	3.92
18	4-Chloro- <i>o</i> -toluidine	4,4'-二氨基二苯甲烷	21.576	
19	<i>p</i> -Chloroaniline	3,3'-二甲基-4,4'-二氨基二苯甲烷	21.934	
20	Benzidine	3,3'-二甲基联苯胺	22.776	
21	Aniline	4,4'-二氨基二苯硫醚	24.685	
22	<i>o</i> -Anisidine / 2-Methoxyaniline	3,3'-二氯联苯胺	24.796	2.50
23	<i>o</i> -Toluidine	3,3'-二甲氧基联苯胺	25.05	5.52

# Instrumentation Conditions

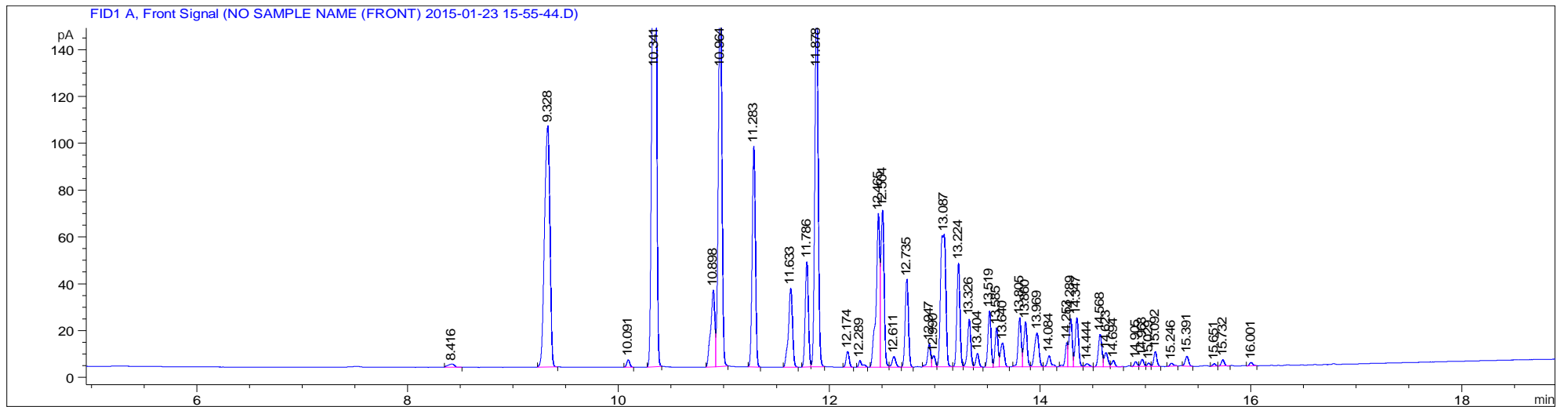
- GC: Agilent 7890 w/ FID
- Cat no: *GsBP-5MS 30m x 0.25mm x 0.25um*
- Oven: 100 °C(hold 2 min.) to 325°C(hold 3 min ) at 8°C/min
- Carrier: Hydrogen, constant flow 0.5ml/min
- Inlet: Split, 275 °C, split ratio 60: 1
- Detector: FID 325 °C
- Inject volume: Aroclor standard 1ul



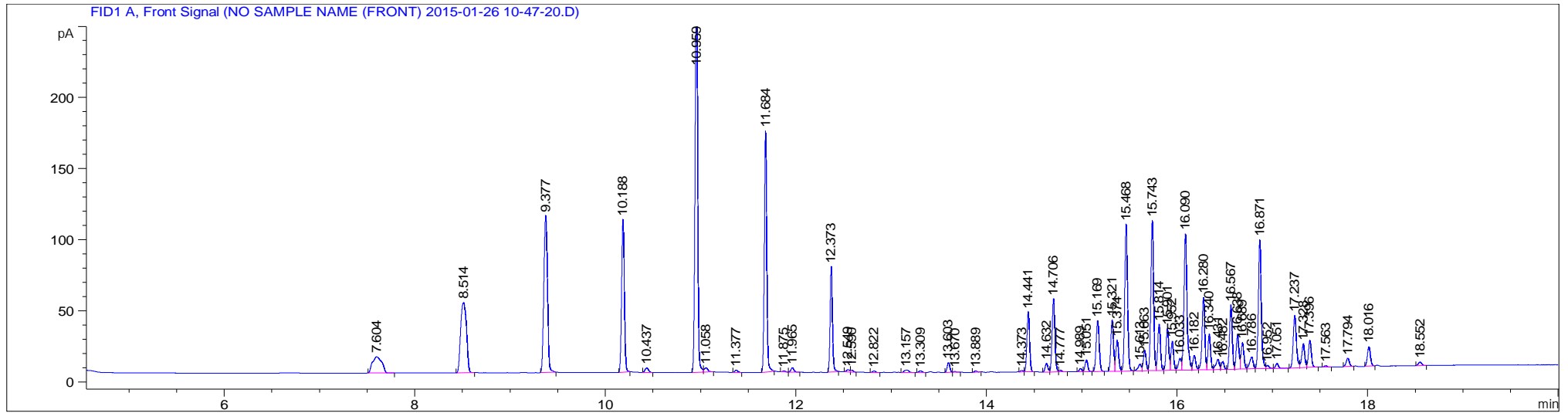
## Aroclor 1254 standard



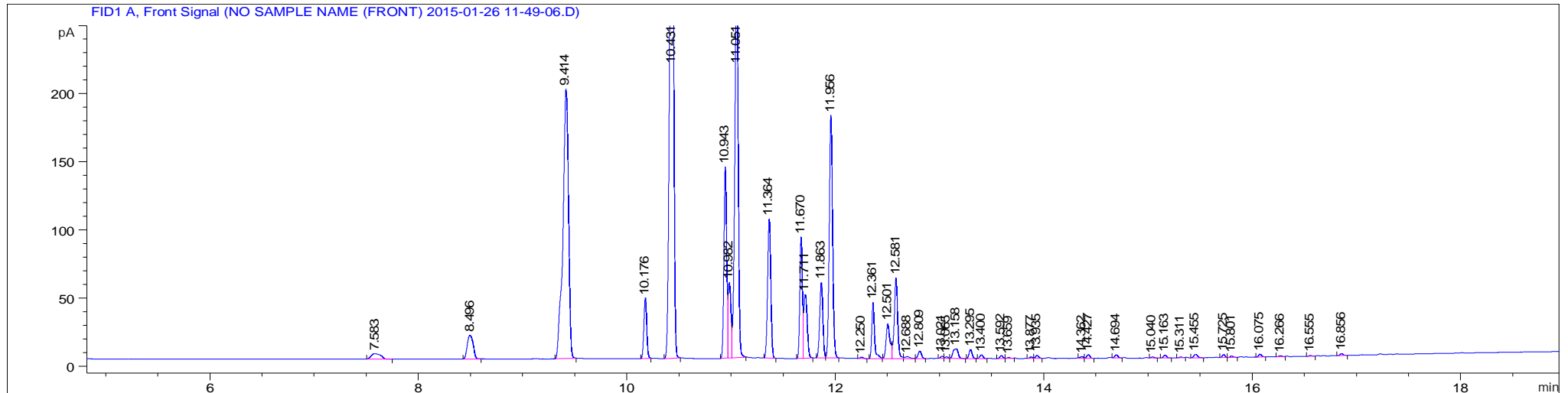
## Aroclor 1232 standard



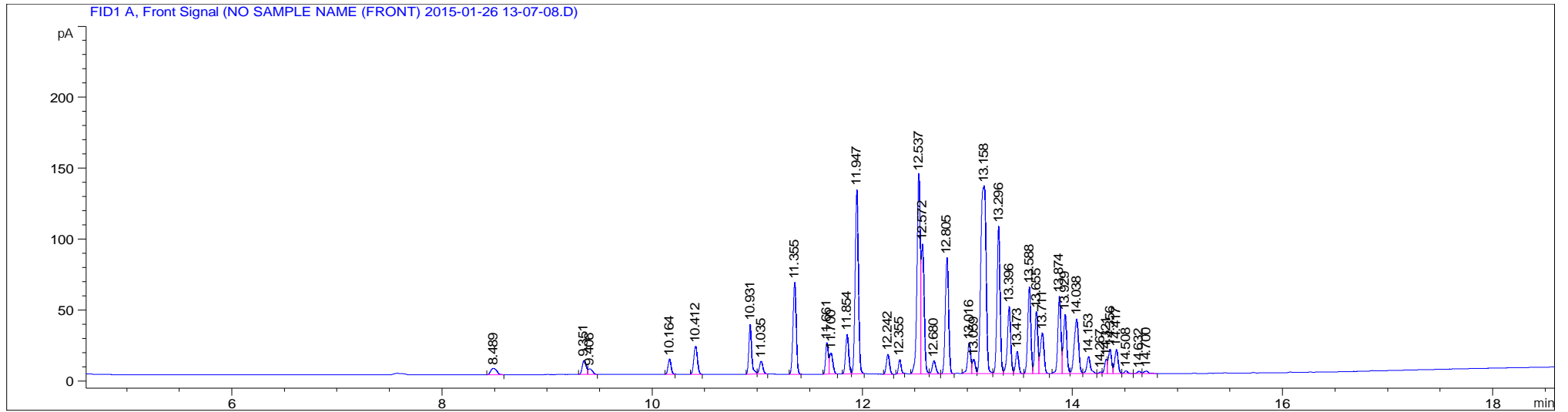
## Aroclor 1260 standard



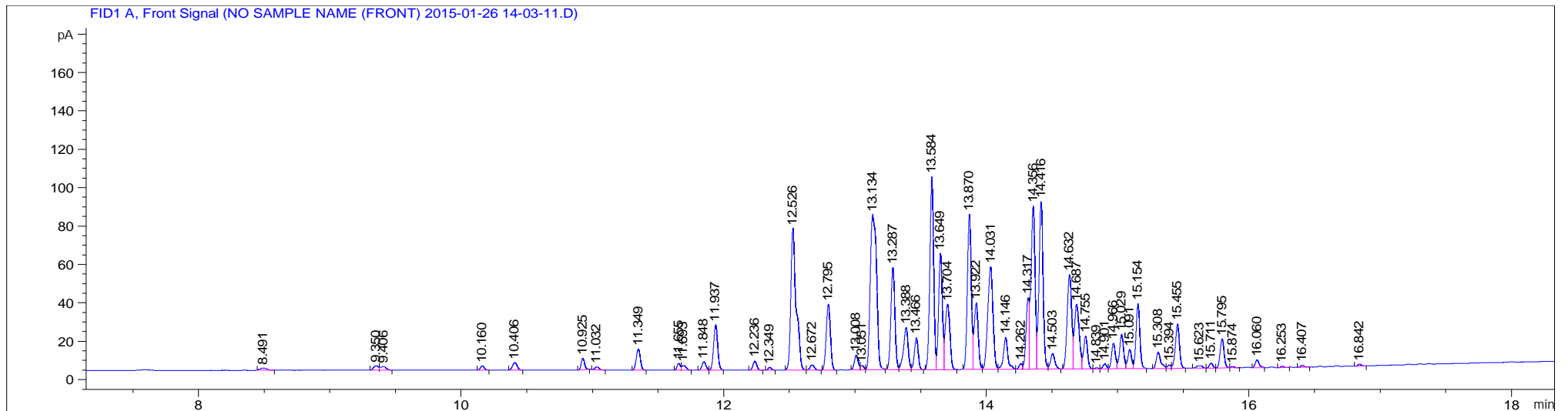
## Aroclor 1221 standard



## Aroclor 1016 standard



## Aroclor 1248 standard



# Aroclor 1242 standard

