Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF100716\
Data File : BF090467.D
Acq On : 8 Oct 2016 5:04
Operator : UM/SJ
Sample : H5120-03MSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RAV-GT-104MSD

Quant Time: Oct 08 05:30:24 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF100516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 05 14:57:00 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.99	152	228214	20.00	ng		-0.01
21) Naphthalene-d8	8.28	136	991592	20.00	ng		-0.01
38) Acenaphthene-d10	10.04	164	528100	20.00	ng		-0.01
63) Phenanthrene-d10	11.53	188	862683	20.00	ng		-0.02
75) Chrysene-d12	14.18	240	576429	20.00	ng		-0.02
86) Perylene-d12	15.68	264	399264	20.00	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.59	112	842836	55.12	ng		-0.01
7) Phenol-d6	6.62	99	752292	37.56	ng		0.00
23) Nitrobenzene-d5	7.55	82	1679496	82.39	ng		-0.02
41) 2,4,6-Tribromophenol	10.84	330	735119	171.19	ng		-0.01
44) 2-Fluorobiphenyl	9.35	172	2628333	82.92	ng		-0.02
78) Terphenyl-d14	13.13	244	2825939	110.22	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.71	88	116083	15.40	ng	#	89
3) Pyridine	3.49	79	329068	15.66	ng	#	82
4) n-Nitrosodimethylamine	3.42	42	142128	16.39	ng	#	45
6) Aniline	6.65	93	627823	22.69	ng		99
8) 2-Chlorophenol	6.77	128	543199	32.28	ng		92
9) Benzaldehyde	6.53	77	309302	30.55	ng		99
10) Phenol	6.63	94	340988	14.64	ng		88
11) bis(2-Chloroethyl)ether	6.71	93	667544	37.44	ng		91
12) 1,3-Dichlorobenzene	6.93	146	661812	39.45	ng		99
13) 1,4-Dichlorobenzene	7.00	146	637772	37.43	ng		97
14) 1,2-Dichlorobenzene	7.16	146	662478	40.36	ng		99
15) Benzyl Alcohol	7.13	79	429259	28.19	ng		96
16) 2,2'-oxybis(1-Chloropropan	7.26	45	1033218	34.17	ng		90
17) 2-Methylphenol	7.25	107	413243	29.86	ng		99
18) Hexachloroethane	7.50	117	234344	34.89	ng		94
19) n-Nitroso-di-n-propylamine	7.40	70	563261	38.35	ng	#	83
20) 3+4-Methylphenols	7.40	107	478448	26.71	ng	#	55
22) Acetophenone	7.40	105	1061720	45.21	ng	#	90
24) Nitrobenzene	7.57	77	829450	40.99	ng		99
25) Isophorone	7.81	82	1530287	41.06	ng		99
26) 2-Nitrophenol	7.89	139	394218	45.26	ng	#	91
27) 2,4-Dimethylphenol	7.93	122	578175	34.13	ng		96
28) bis(2-Chloroethoxy)methane	8.02	93	946545	42.94	ng	#	96
29) 2,4-Dichlorophenol	8.13	162	502404	39.01	ng		87
30) 1,2,4-Trichlorobenzene	8.22	180	578070	43.55	ng		94
31) Naphthalene	8.30	128	2073643	43.35	ng		99
32) Benzoic acid	8.01	122	117774	10.00	ng		97
33) 4-Chloroaniline	8.35	127	524101	26.51	ng	#	88
34) Hexachlorobutadiene	8.42	225	281618	37.97	ng		100
36) 4-Chloro-3-methylphenol	8.83	107	627335	38.90	ng		98
37) 2-Methylnaphthalene	8.99	142	1295921	44.75	ng		99
39) 1,2,4,5-Tetrachlorobenzene	9.16	216	587071	42.16	ng	#	98
40) Hexachlorocyclopentadiene	9.15	237	495041	64.86	ng		100
42) 2,4,6-Trichlorophenol	9.27	196	464856	48.38	ng		98

Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF100716\
Data File : BF090467.D
Acq On : 8 Oct 2016 5:04
Operator : UM/SJ
Sample : H5120-03MSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : RAV-GT-104MSD

Quant Time: Oct 08 05:30:24 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF100516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 05 14:57:00 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) 2,4,5-Trichlorophenol	9.32	196	417715	45.98	ng	#	89
45) 1,1'-Biphenyl	9.46	154	1521274	38.87	ng		96
46) 2-Chloronaphthalene	9.48	162	1321040	45.69	ng		97
47) 2-Nitroaniline	9.58	65	550870	48.29	ng	#	82
48) Acenaphthylene	9.90	152	1988989	41.69	ng		100
49) Dimethylphthalate	9.77	163	1793649	53.03	ng		99
50) 2,6-Dinitrotoluene	9.82	165	378180	50.36	ng	#	84
51) Acenaphthene	10.07	154	1366853	45.95	ng		98
52) 3-Nitroaniline	9.99	138	242534	27.65	ng	#	78
53) 2,4-Dinitrophenol	10.10	184	328476	98.12	ng		94
54) Dibenzofuran	10.25	168	1752740	45.52	ng		93
55) 4-Nitrophenol	10.15	139	254527	33.16	ng		85
56) 2,4-Dinitrotoluene	10.22	165	455006	45.53	ng	#	37
57) Fluorene	10.59	166	1433808	44.31	ng		99
58) 2,3,4,6-Tetrachlorophenol	10.33	232	401542	59.18	ng		95
59) Diethylphthalate	10.46	149	1593872	45.55	ng		94
60) 4-Chlorophenyl-phenylether	10.58	204	692011	47.04	ng	#	87
61) 4-Nitroaniline	10.61	138	387583	43.85	ng		95
62) Azobenzene	10.75	77	1927820	47.70	ng		81
64) 4,6-Dinitro-2-methylphenol	10.63	198	206245	36.84	ng	#	73
65) n-Nitrosodiphenylamine	10.70	169	1318078	45.59	ng		98
66) 4-Bromophenyl-phenylether	11.08	248	444551	52.57	ng	#	80
67) Hexachlorobenzene	11.15	284	468992	49.80	ng	#	80
68) Atrazine	11.23	200	347590	48.76	ng		98
69) Pentachlorophenol	11.34	266	554791	98.97	ng		97
70) Phenanthrene	11.56	178	2317426	52.46	ng		99
71) Anthracene	11.61	178	2066946	45.82	ng		99
72) Carbazole	11.77	167	2172779	51.84	ng		98
73) Di-n-butylphthalate	12.10	149	2537642	49.75	ng	#	96
74) Fluoranthene	12.75	202	2078774	47.98	ng		98
76) Benzidine	12.86	184	550589	36.33	ng		100
77) Pyrene	12.98	202	1972934	51.33	ng		99
79) Butylbenzylphthalate	13.59	149	998981	50.65	ng	#	84
80) Benzo(a)anthracene	14.17	228	1615503	49.95	ng		99
81) 3,3'-Dichlorobenzidine	14.13	252	381064	32.50	ng	#	98
82) Chrysene	14.21	228	1577889	53.01	ng		98
83) Bis(2-ethylhexyl)phthalate	14.16	149	1345174	47.99	ng	#	99
84) Di-n-octyl phthalate	14.77	149	1918782	46.17	ng	#	90
85) Indeno(1,2,3-cd)pyrene	17.18	276	1153579	54.36	ng		95
87) Benzo(b)fluoranthene	15.24	252	1319435	51.88	ng		98
88) Benzo(k)fluoranthene	15.24	252	1319435	55.23	ng	#	95
89) Benzo(a)pyrene	15.62	252	1119903	51.09	ng		98
90) Dibenzo(a,h)anthracene	17.21	278	985290	52.83	ng	#	95
91) Benzo(g,h,i)perylene	17.64	276	916785	51.23	ng	#	94

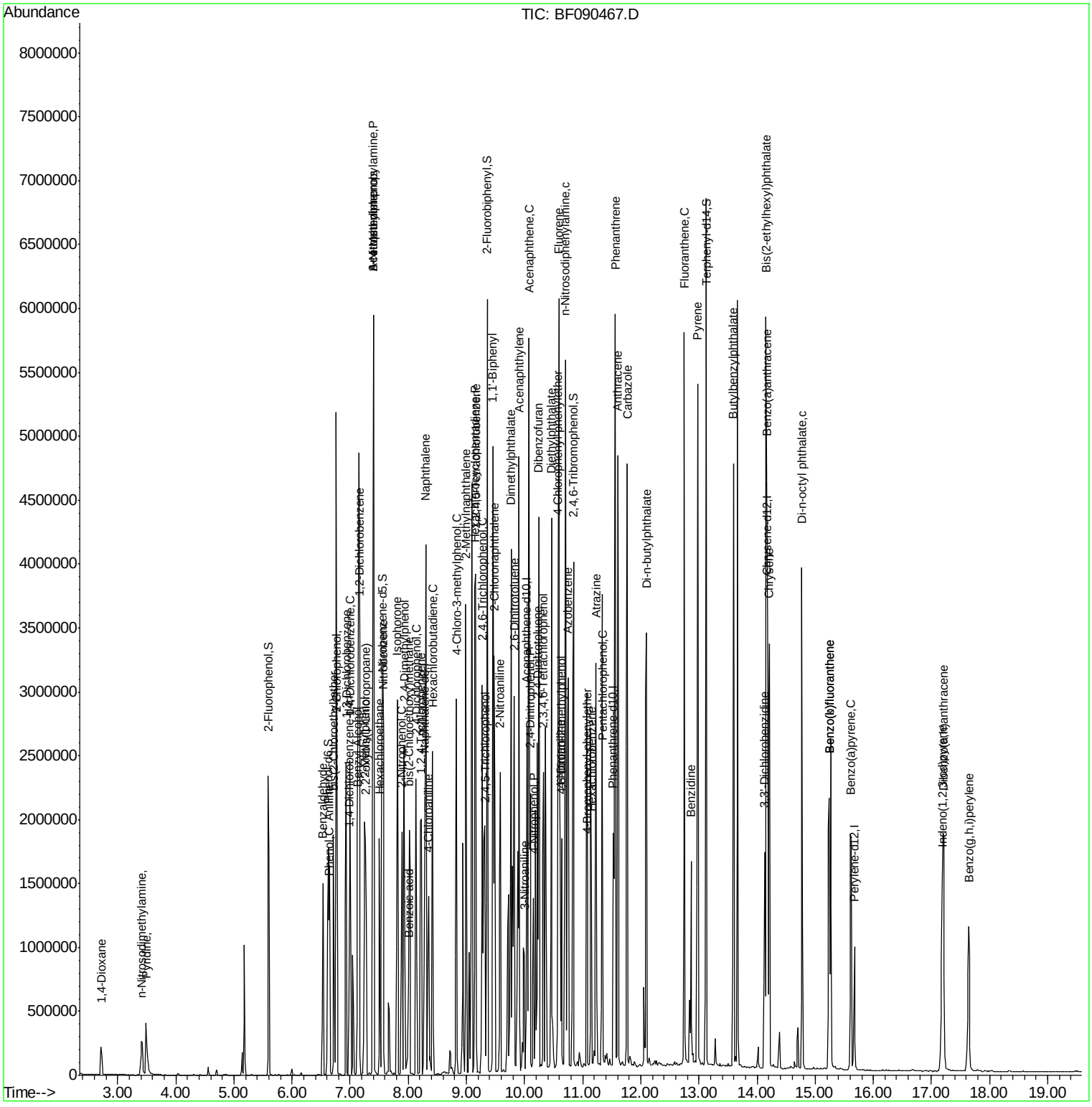
(#) = qualifier out of range (m) = manual integration (+) = signals summed

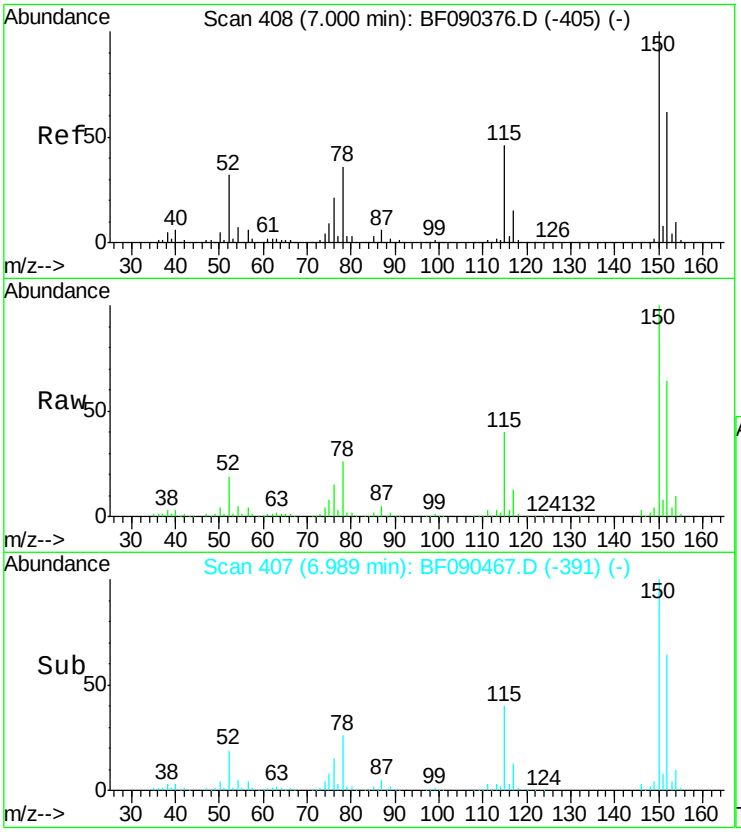
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF100716\
Data File : BF090467.D
Acq On : 8 Oct 2016 5:04
Operator : UM/SJ
Sample : H5120-03MSD
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Quant Time: Oct 08 05:30:24 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF100516.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 05 14:57:00 2016
Response via : Initial Calibration



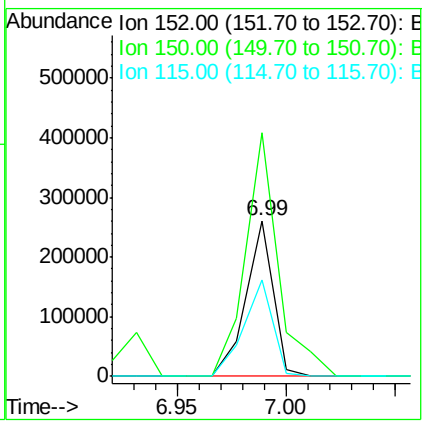


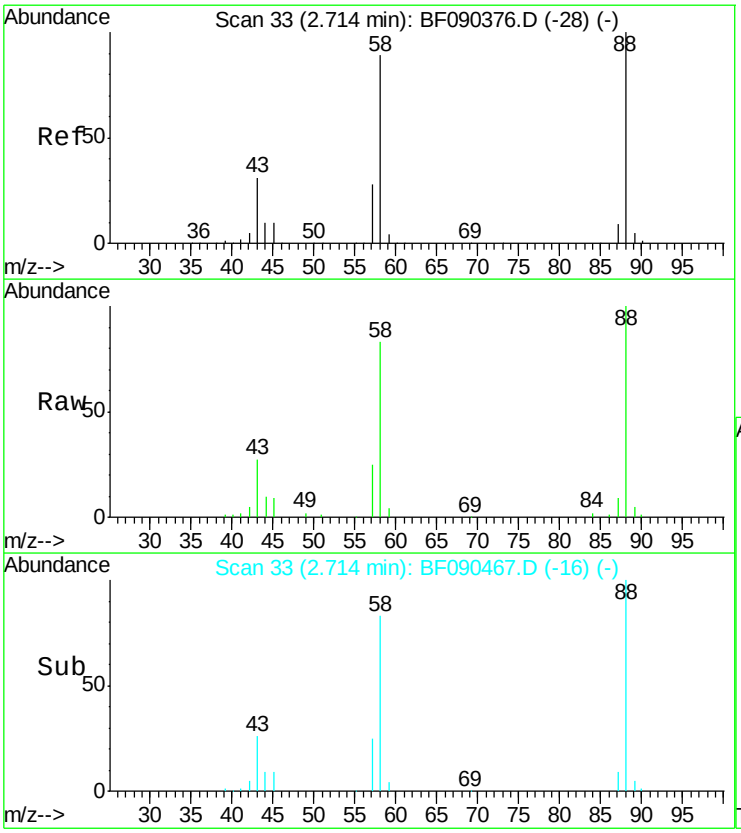
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.99 min Scan# 407
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:152 Resp: 228214

Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.6	186.8
115	62.1	46.2	69.4

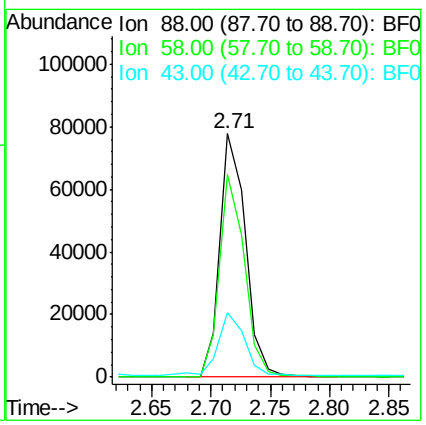


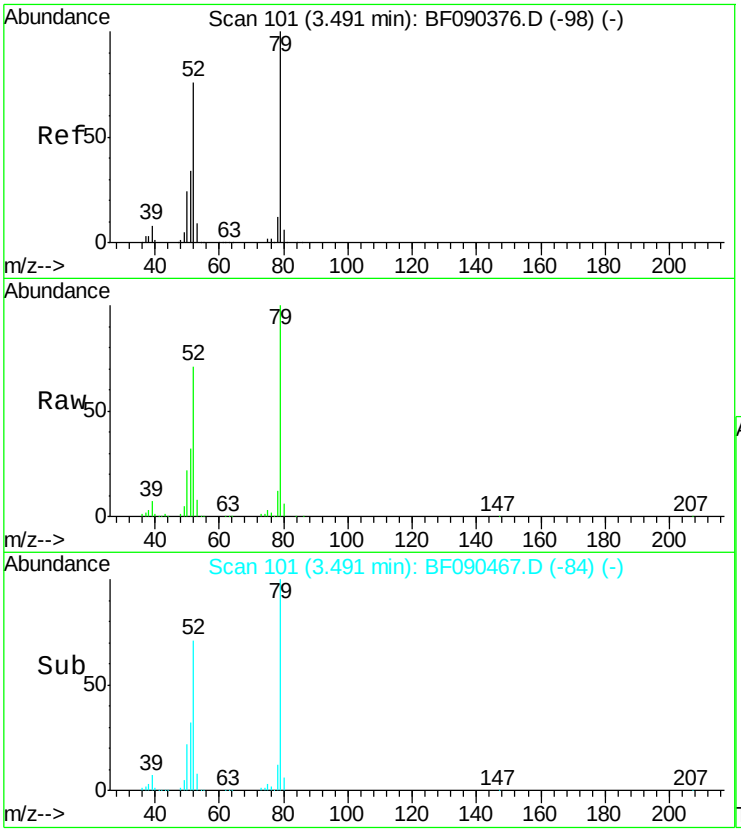


#2
1,4-Dioxane
Concen: 15.40 ng
RT: 2.71 min Scan# 33
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 88 Resp: 116083

Ion	Ratio	Lower	Upper
88	100		
58	81.4	71.2	106.8
43	27.2	29.8	44.6#



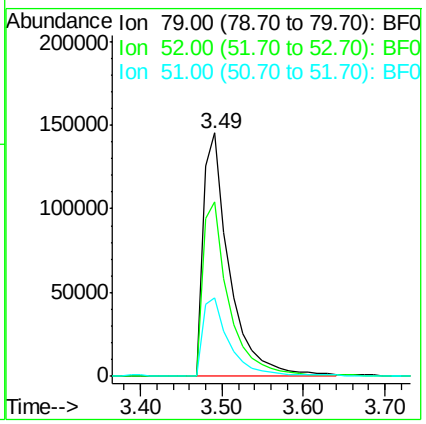


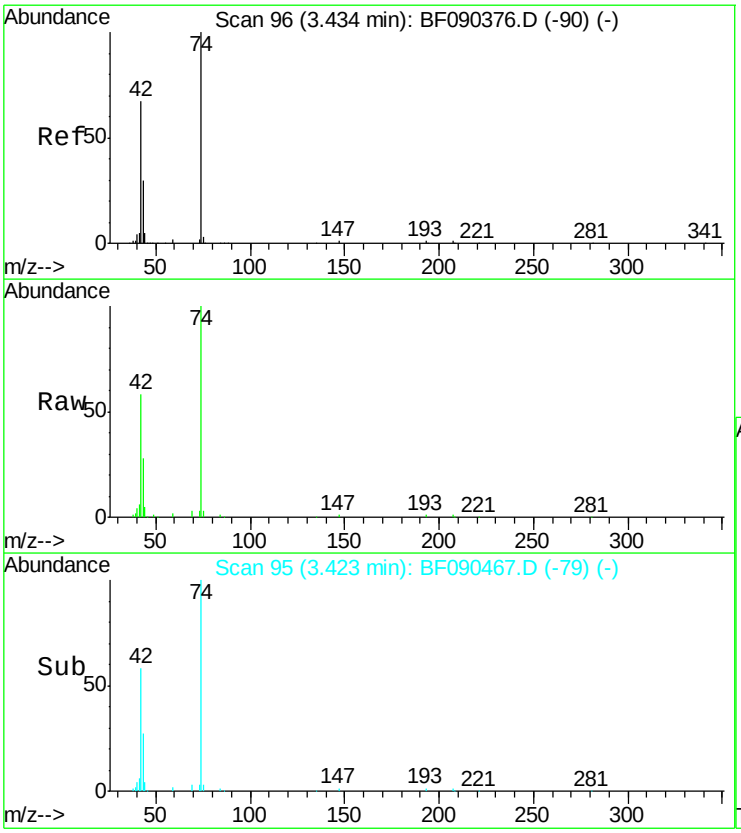
#3
Pyridine
Concen: 15.66 ng
RT: 3.49 min Scan# 101
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 79 Resp: 329068

Ion	Ratio	Lower	Upper
79	100		
52	71.5	71.3	106.9
51	32.4	34.5	51.7#

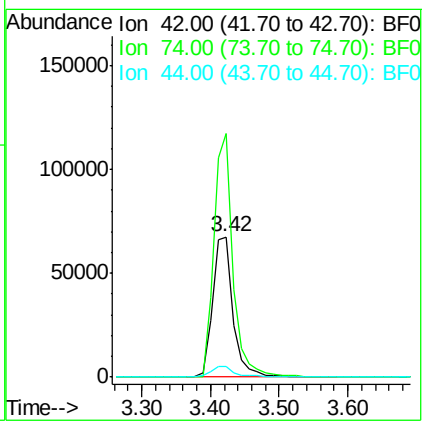


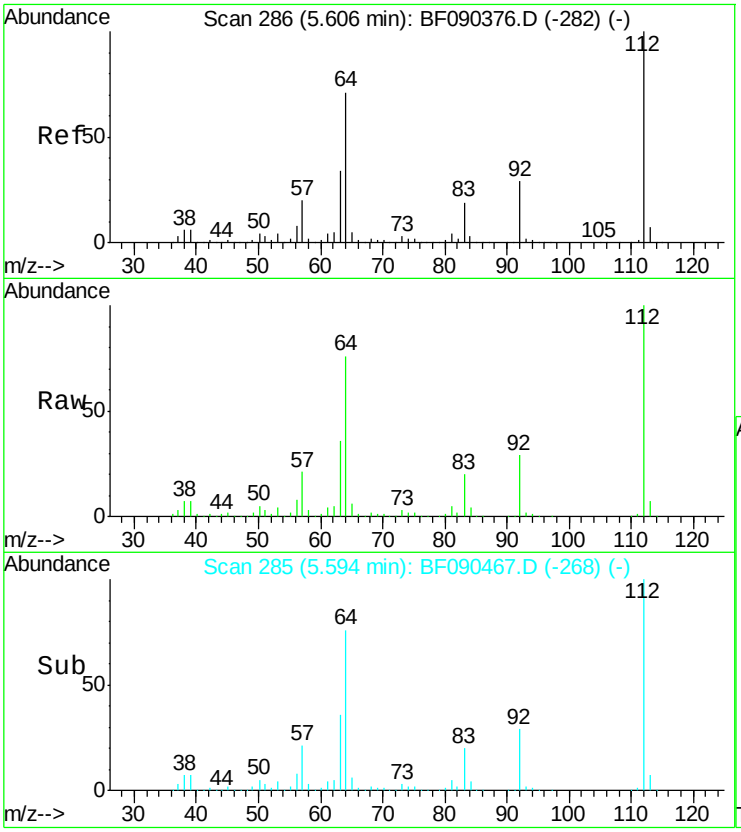


#4
n-Nitrosodimethylamine
Concen: 16.39 ng
RT: 3.42 min Scan# 95
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 42 Resp: 142128

Ion	Ratio	Lower	Upper
42	100		
74	173.3	88.9	133.3#
44	7.8	6.5	9.7



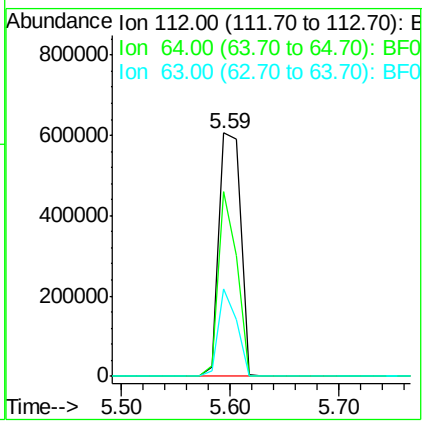


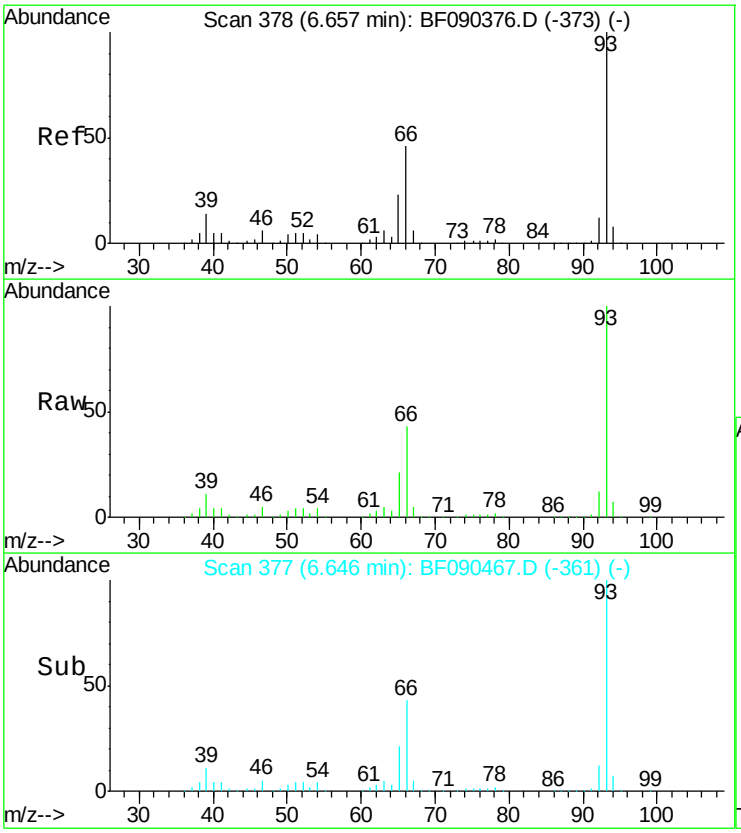
#5
2-Fluorophenol
Concen: 55.12 ng
RT: 5.59 min Scan# 285
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:112 Resp: 842836

Ion	Ratio	Lower	Upper
112	100		
64	75.9	57.9	86.9
63	36.0	29.6	44.4

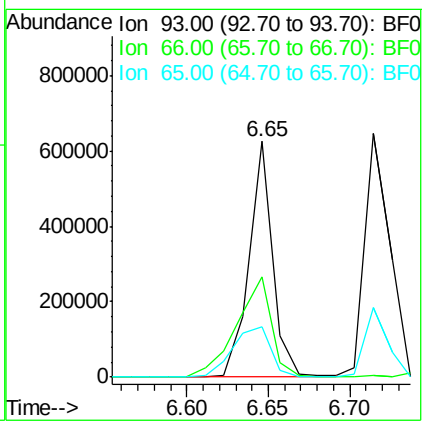


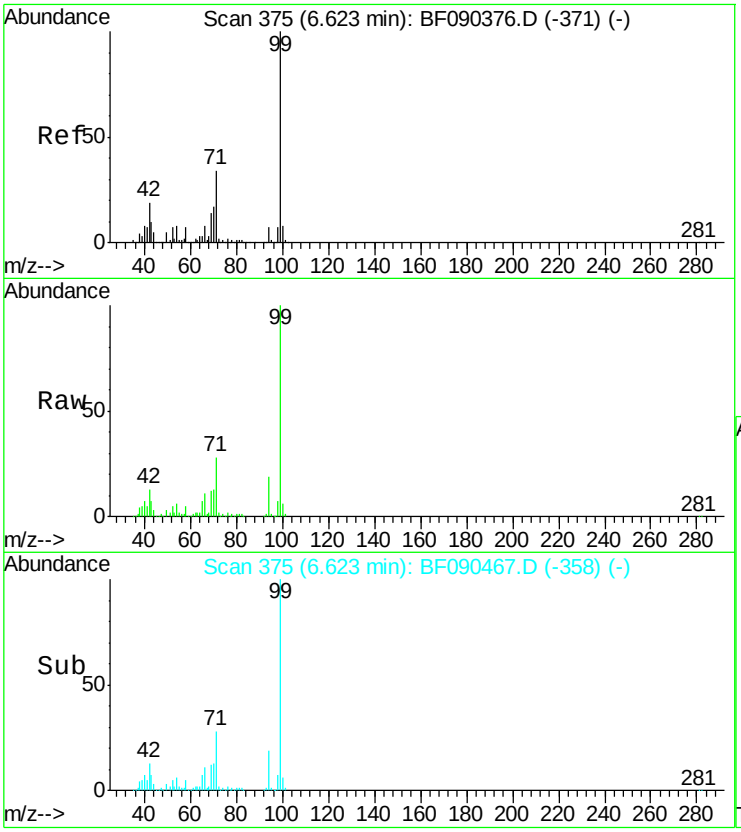


#6
Aniline
Concen: 22.69 ng
RT: 6.65 min Scan# 377
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 93 Resp: 627823

Ion	Ratio	Lower	Upper
93	100		
66	42.7	34.5	51.7
65	21.2	18.2	27.2



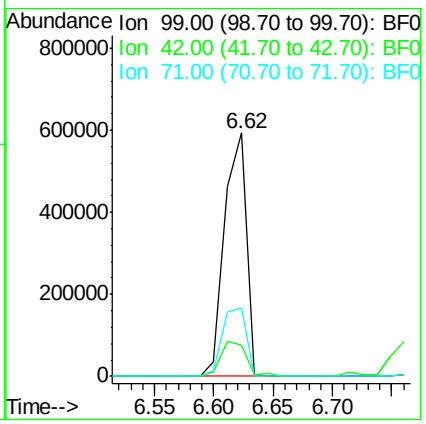


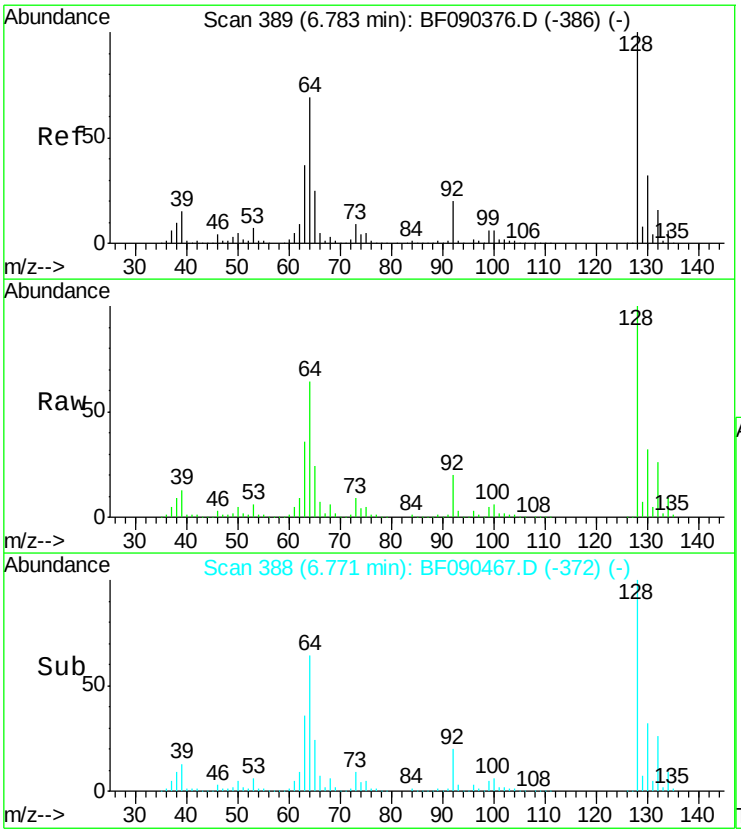
#7
Phenol-d6
Concen: 37.56 ng
RT: 6.62 min Scan# 375
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 99 Resp: 752292

Ion	Ratio	Lower	Upper
99	100		
42	12.7	20.0	30.0#
71	28.1	27.9	41.9

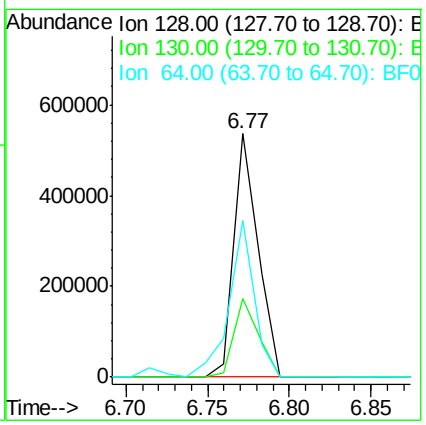


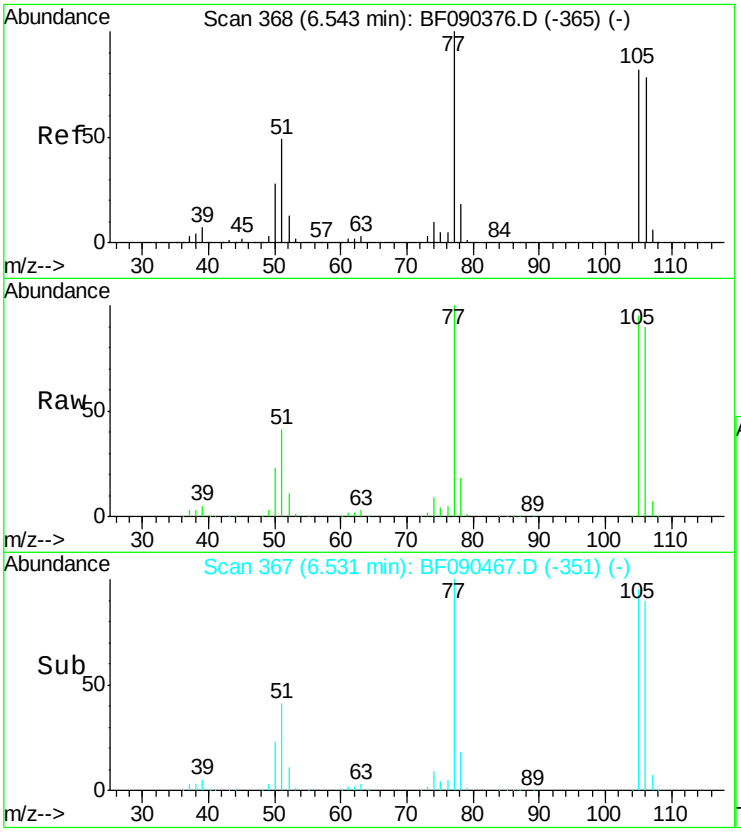


#8
2-Chlorophenol
Concen: 32.28 ng
RT: 6.77 min Scan# 388
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:128 Resp: 543199

Ion	Ratio	Lower	Upper
128	100		
130	32.1	13.3	53.3
64	64.3	36.0	76.0



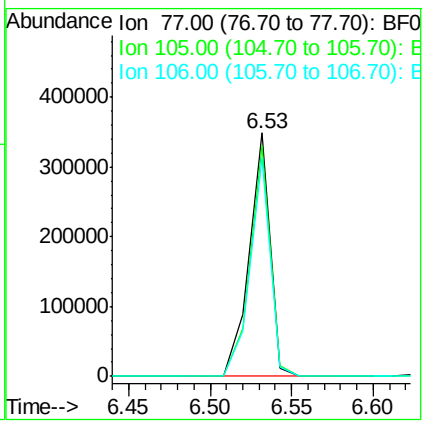


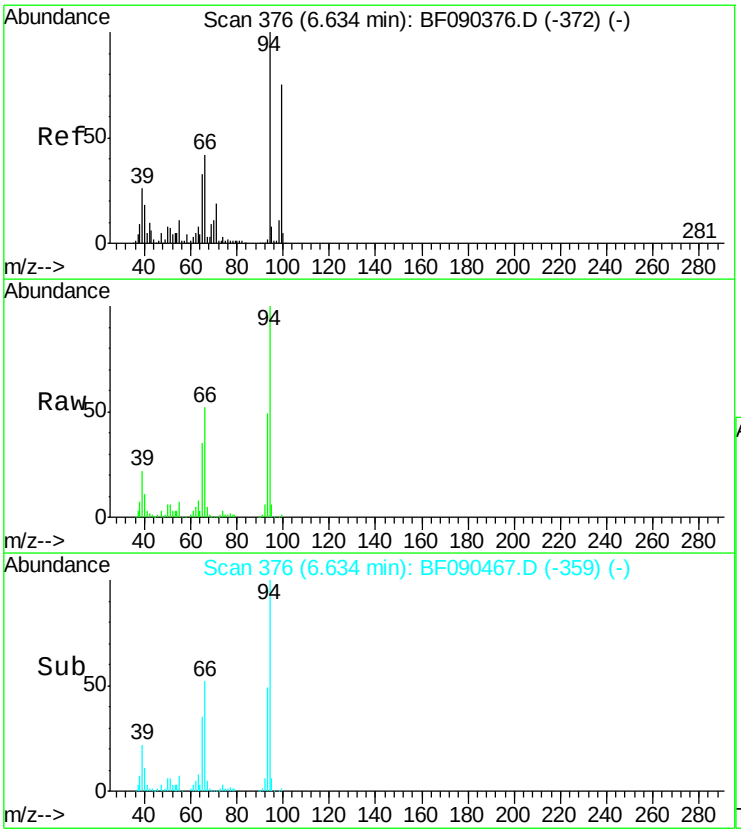
#9
Benzaldehyde
Concen: 30.55 ng
RT: 6.53 min Scan# 367
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 77 Resp: 309302

Ion	Ratio	Lower	Upper
77	100		
105	94.8	73.1	113.1
106	89.7	70.2	110.2

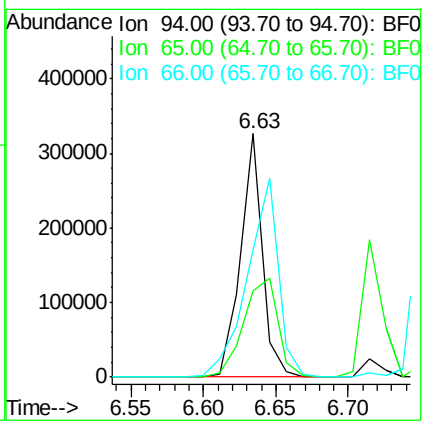


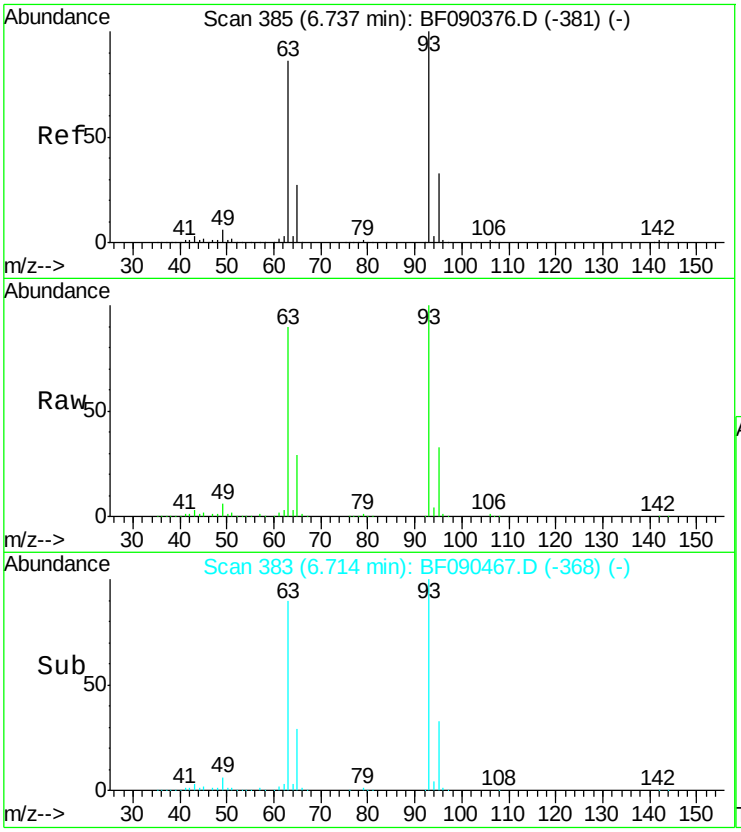


#10
Phenol
Concen: 14.64 ng
RT: 6.63 min Scan# 376
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 94 Resp: 340988

Ion	Ratio	Lower	Upper
94	100		
65	35.4	13.3	53.3
66	52.0	20.4	60.4



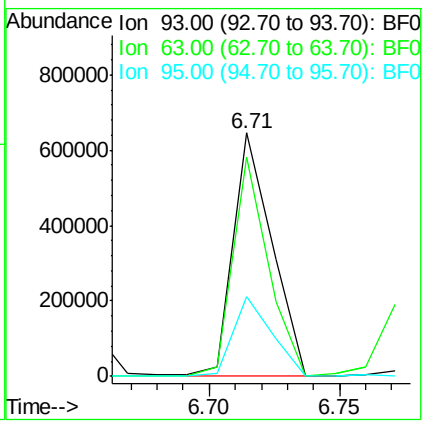


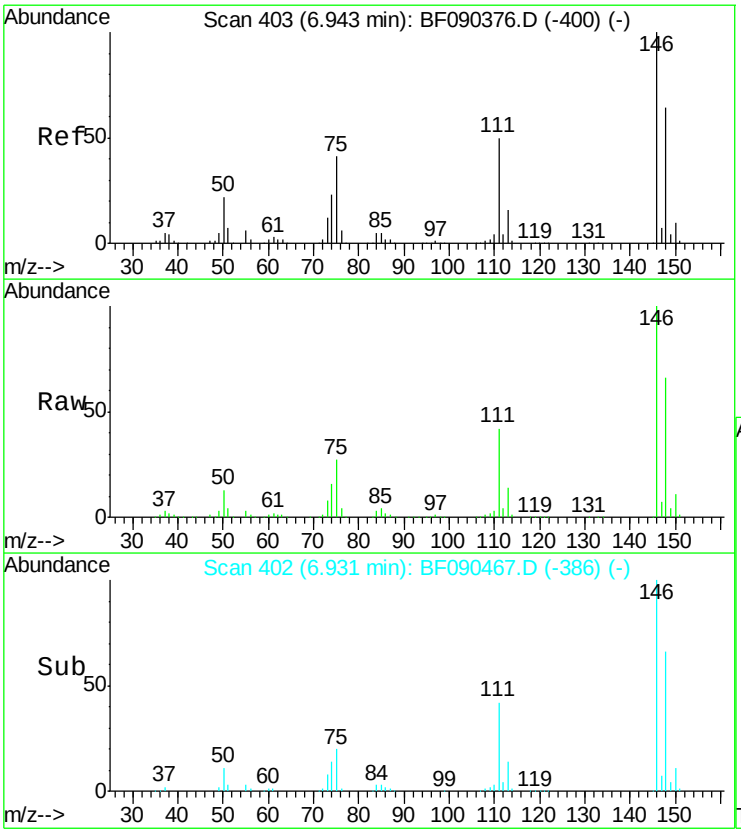
#11
bis(2-Chloroethyl)ether
Concen: 37.44 ng
RT: 6.71 min Scan# 383
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 93 Resp: 667544

Ion	Ratio	Lower	Upper
93	100		
63	90.3	59.7	99.7
95	32.6	14.0	54.0

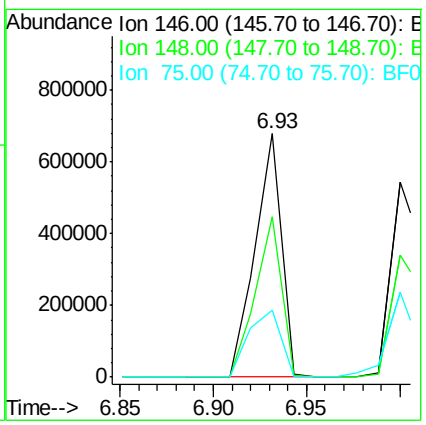


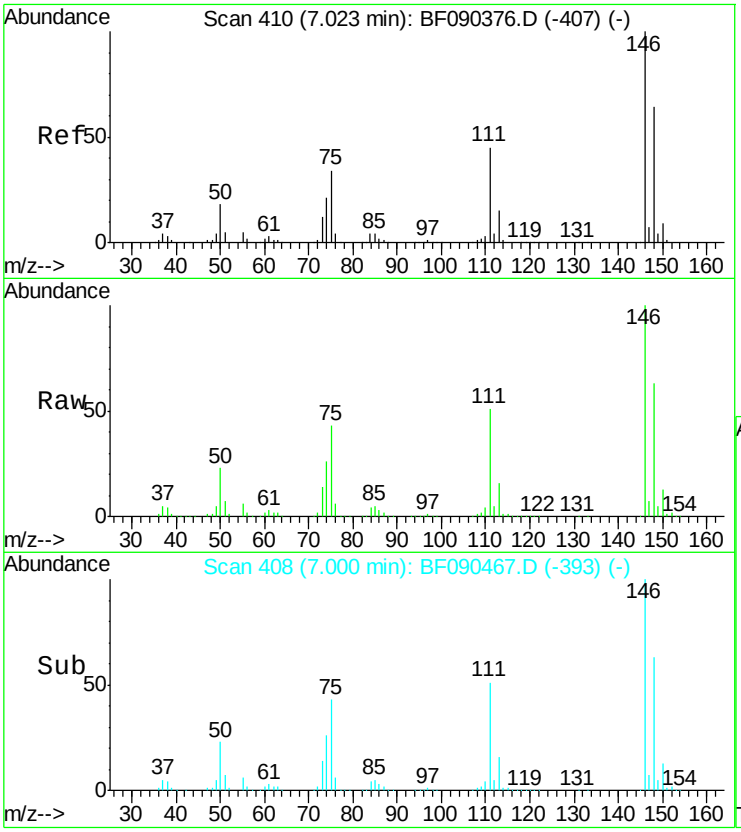


#12
1,3-Dichlorobenzene
Concen: 39.45 ng
RT: 6.93 min Scan# 402
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:146 Resp: 661812

Ion	Ratio	Lower	Upper
146	100		
148	65.7	52.2	78.4
75	27.4	21.4	32.2



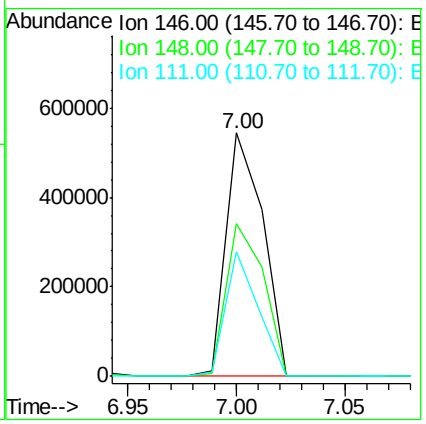


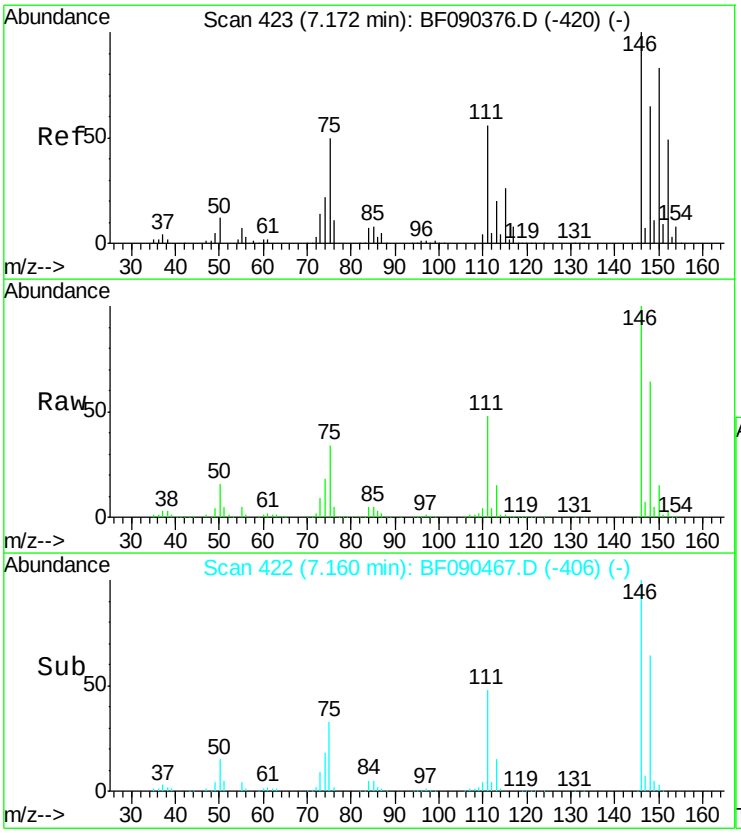
#13
1,4-Dichlorobenzene
Concen: 37.43 ng
RT: 7.00 min Scan# 408
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:146 Resp: 637772

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.1	76.7
111	51.1	37.8	56.6

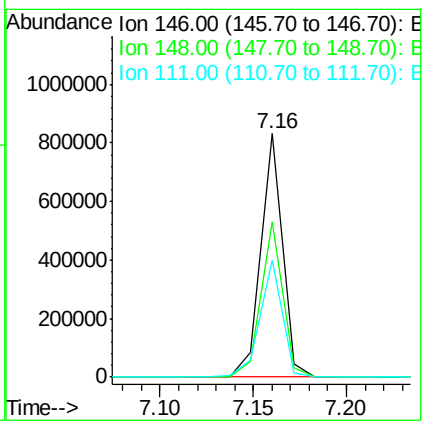


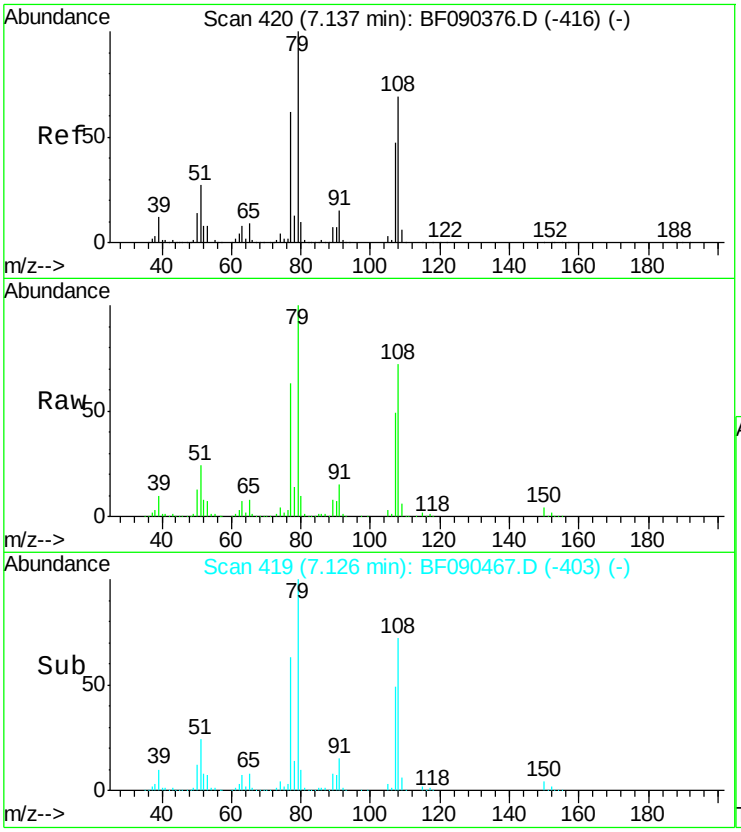


#14
1,2-Dichlorobenzene
Concen: 40.36 ng
RT: 7.16 min Scan# 422
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:146 Resp: 662478

Ion	Ratio	Lower	Upper
146	100		
148	63.6	52.3	78.5
111	47.9	38.2	57.4



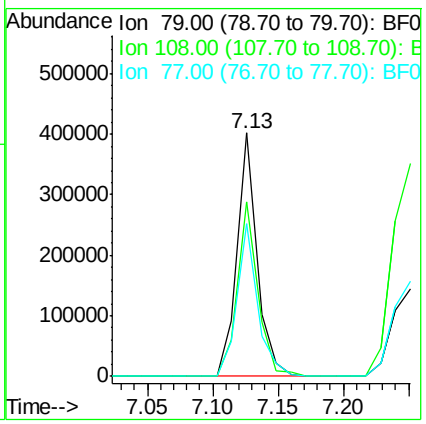


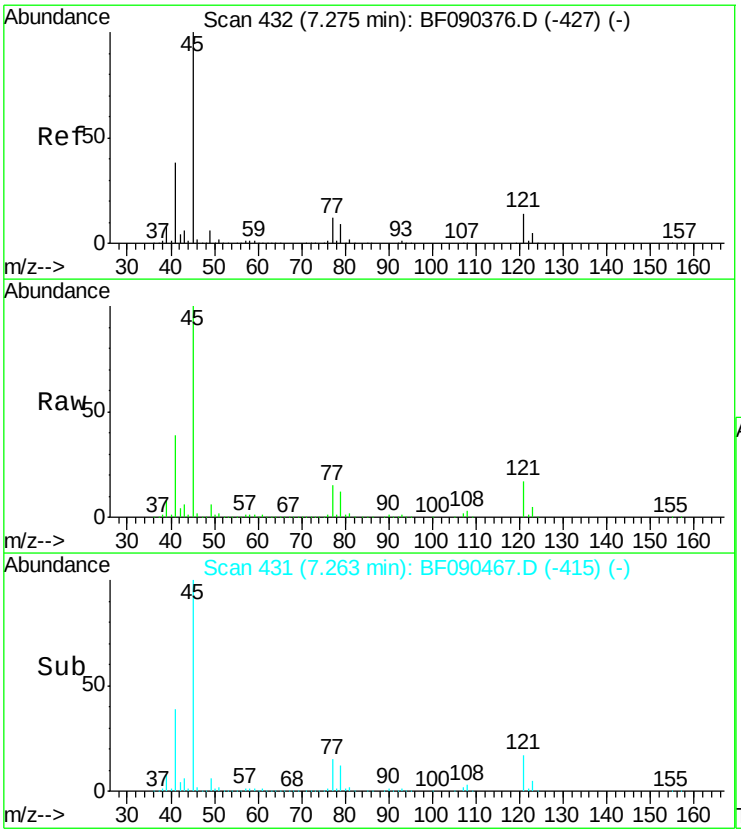
#15
Benzyl Alcohol
Concen: 28.19 ng
RT: 7.13 min Scan# 419
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 79 Resp: 429259

Ion	Ratio	Lower	Upper
79	100		
108	71.6	60.9	91.3
77	62.5	51.5	77.3

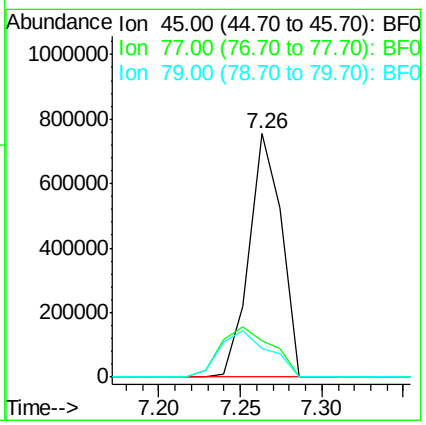


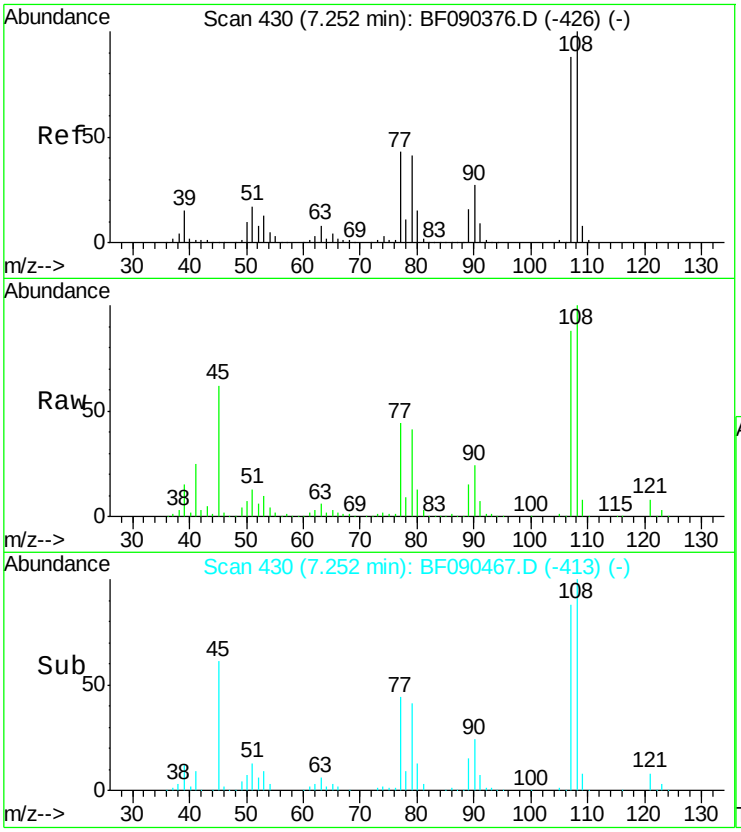


#16
2,2'-oxybis(1-Chloropropane)
Concen: 34.17 ng
RT: 7.26 min Scan# 431
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 45 Resp: 1033218

Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	30.8
79	11.5	0.0	28.2



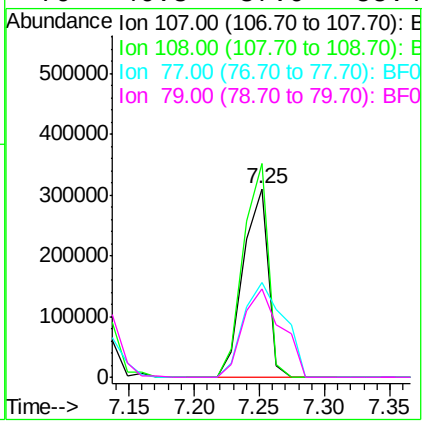


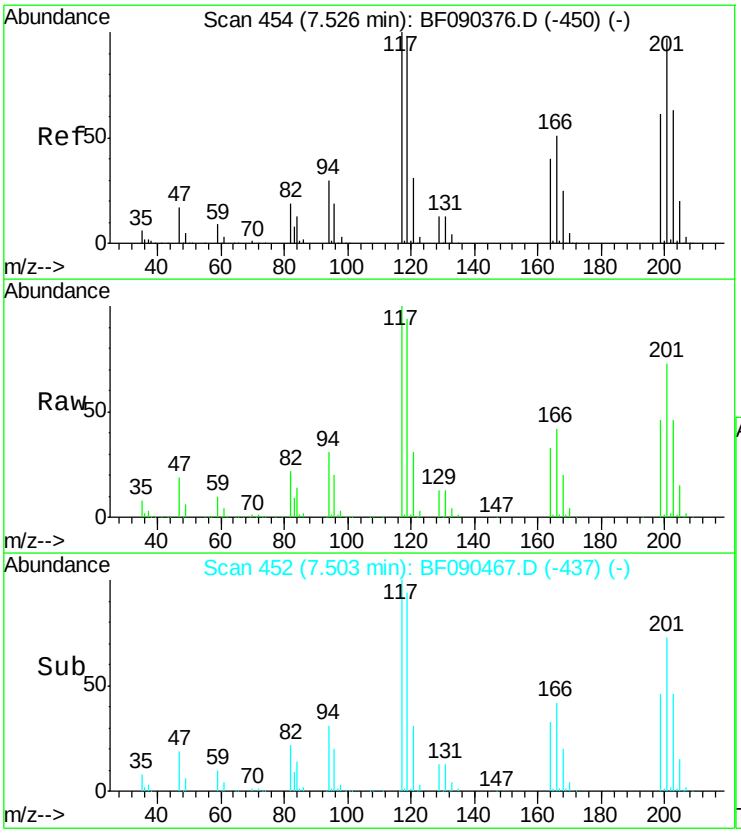
#17
2-Methylphenol
Concen: 29.86 ng
RT: 7.25 min Scan# 430
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:107 Resp: 413243

Ion	Ratio	Lower	Upper
107	100		
108	113.2	90.9	136.3
77	50.4	38.2	57.4
79	46.8	37.0	55.4

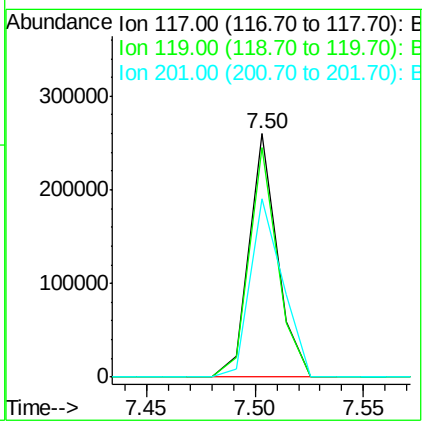


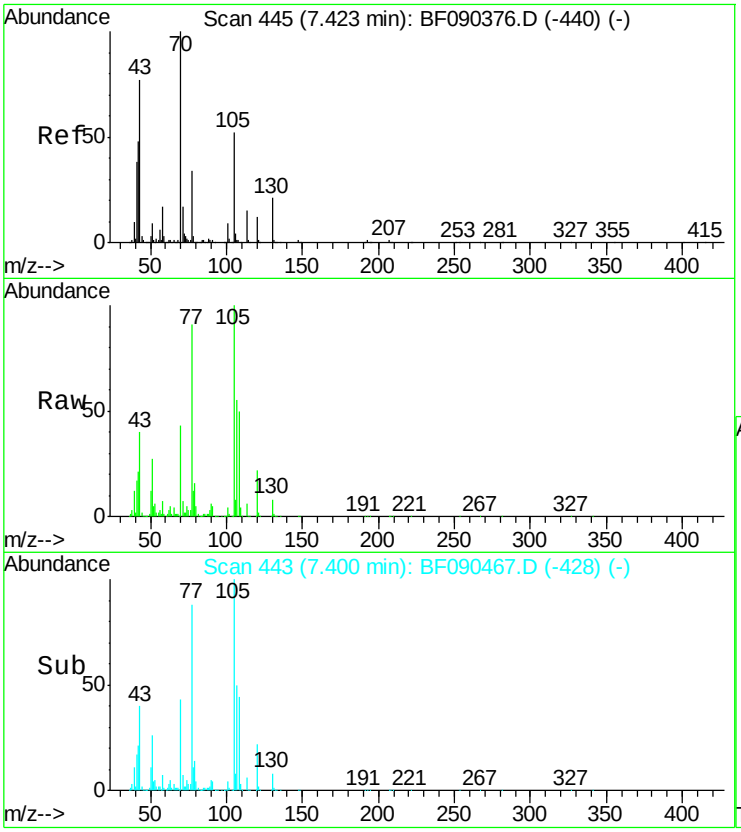


#18
Hexachloroethane
Concen: 34.89 ng
RT: 7.50 min Scan# 452
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:117 Resp: 234344

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.9	113.9
201	73.0	66.5	99.7



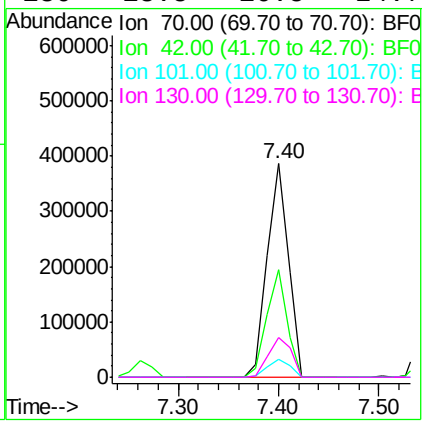


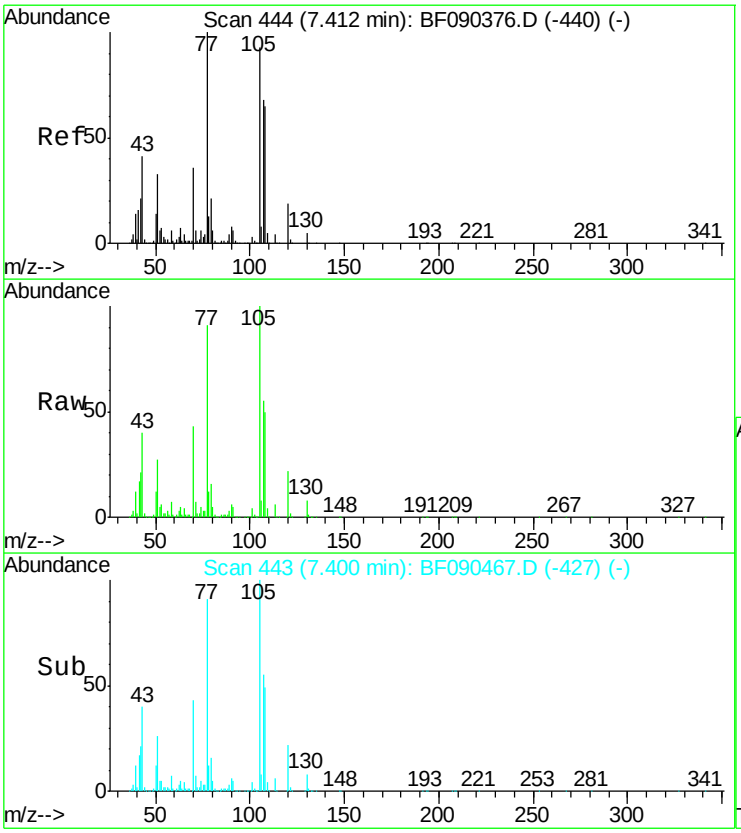
#19
n-Nitroso-di-n-propylamine
Concen: 38.35 ng
RT: 7.40 min Scan# 443
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 70 Resp: 563261

Ion	Ratio	Lower	Upper
70	100		
42	50.2	55.4	83.2#
101	8.6	7.6	11.4
130	18.5	16.5	24.7

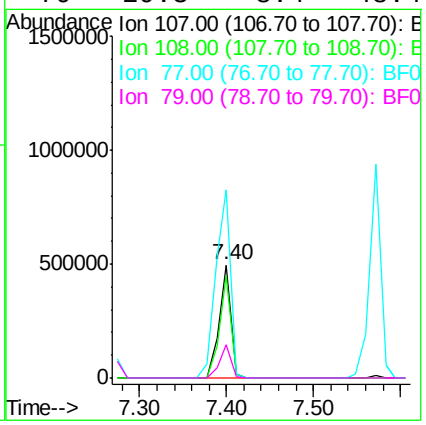


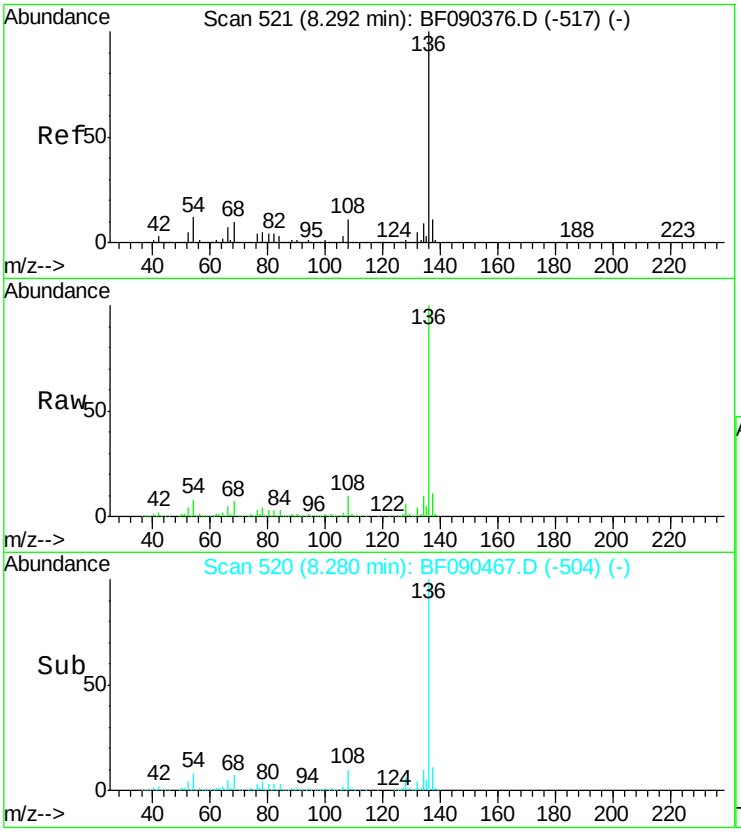


#20
3+4-Methylphenols
Concen: 26.71 ng
RT: 7.40 min Scan# 443
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:107 Resp: 478448

Ion	Ratio	Lower	Upper
107	100		
108	90.7	66.7	106.7
77	166.4	53.7	93.7#
79	29.3	8.4	48.4



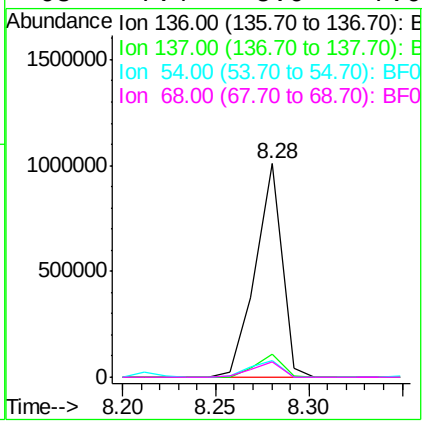


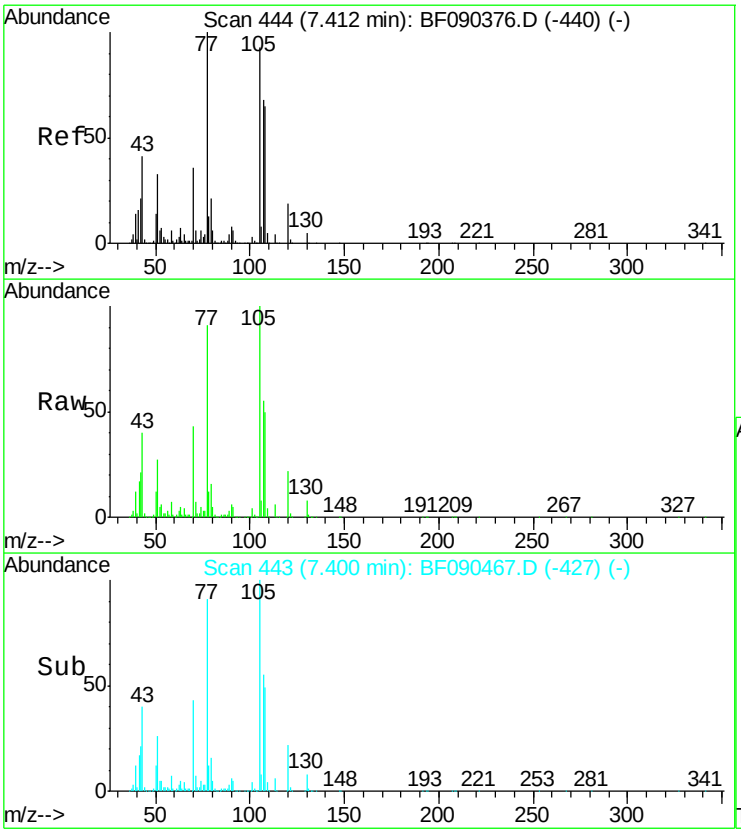
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.28 min Scan# 520
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:136 Resp: 991592

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	8.0	6.6	10.0
68	7.4	5.0	7.6

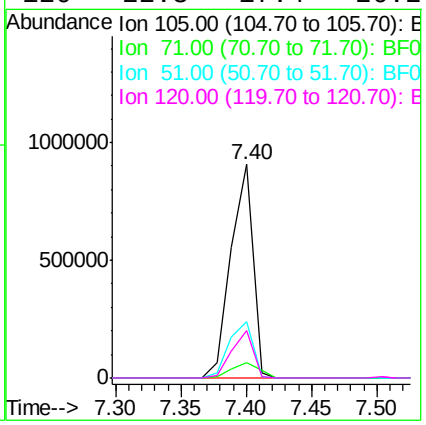


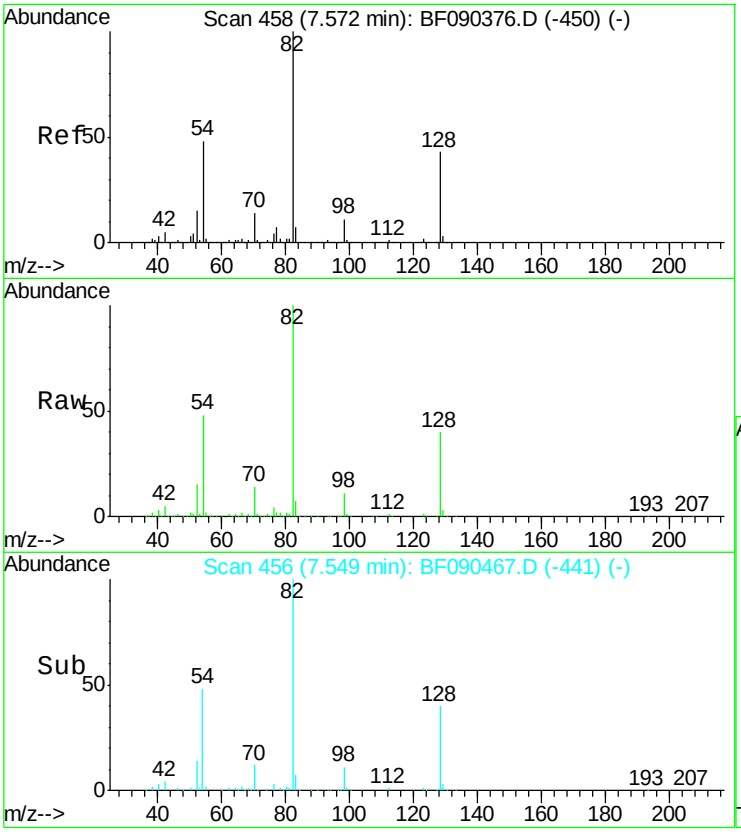


#22
Acetophenone
Concen: 45.21 ng
RT: 7.40 min Scan# 443
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:105 Resp: 1061720

Ion	Ratio	Lower	Upper
105	100		
71	7.2	3.8	5.6#
51	26.5	28.2	42.4#
120	22.3	17.4	26.2



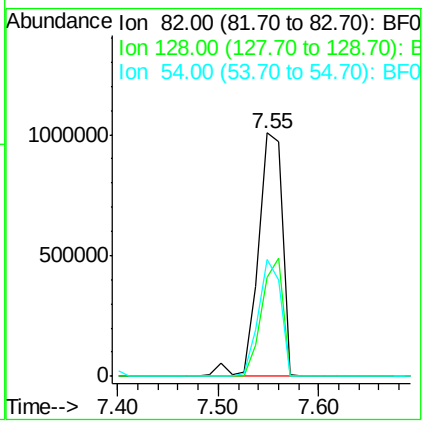


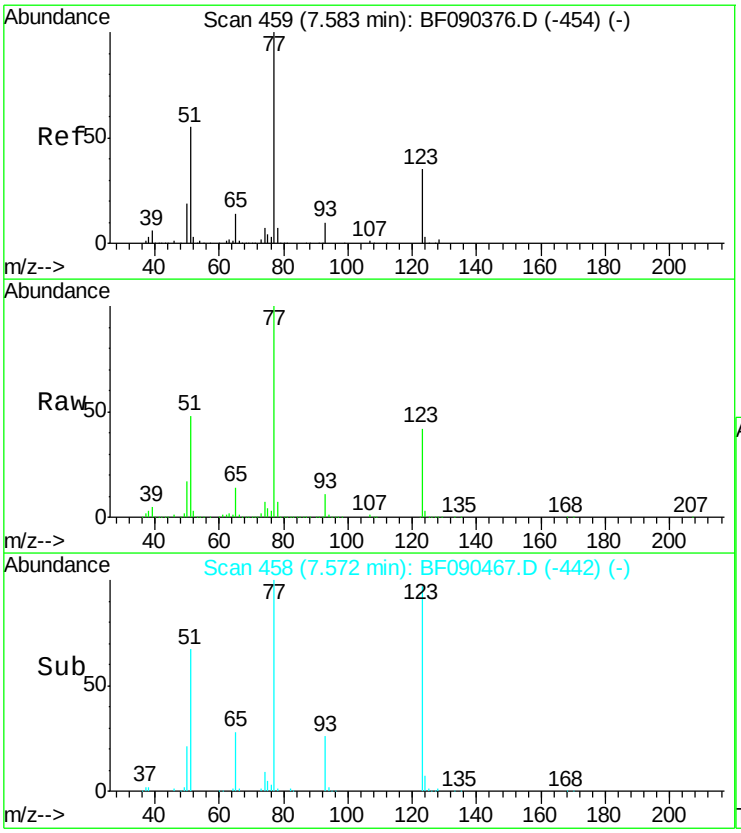
#23
Nitrobenzene-d5
Concen: 82.39 ng
RT: 7.55 min Scan# 456
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 82 Resp: 1679496

Ion	Ratio	Lower	Upper
82	100		
128	40.5	40.0	60.0
54	47.9	42.6	64.0

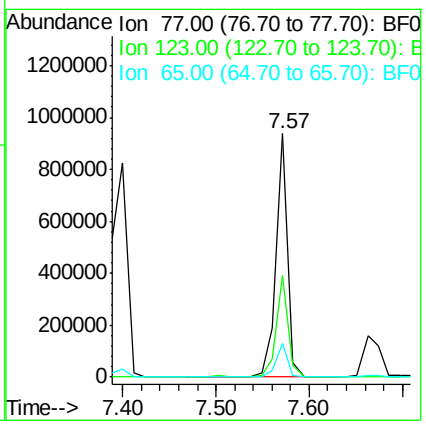


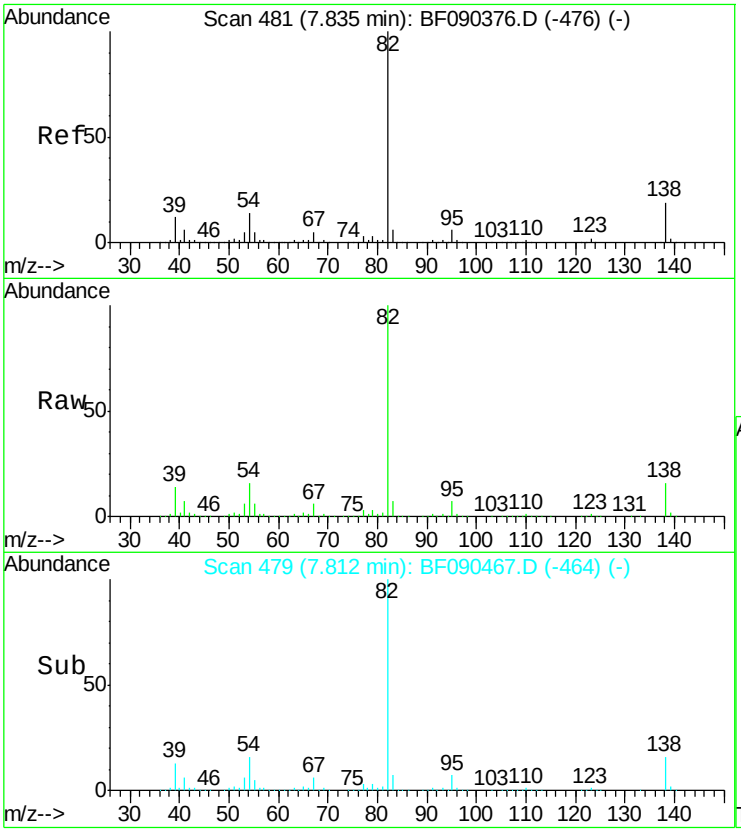


#24
Nitrobenzene
Concen: 40.99 ng
RT: 7.57 min Scan# 458
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 77 Resp: 829450

Ion	Ratio	Lower	Upper
77	100		
123	41.6	33.0	49.4
65	13.7	12.0	18.0



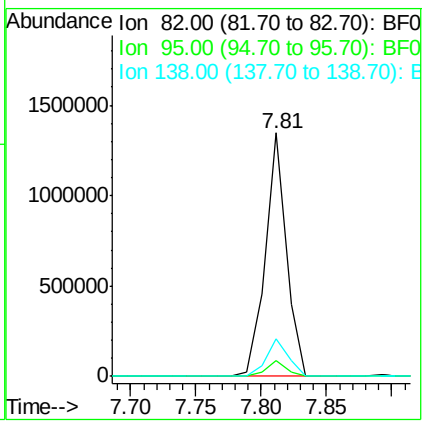


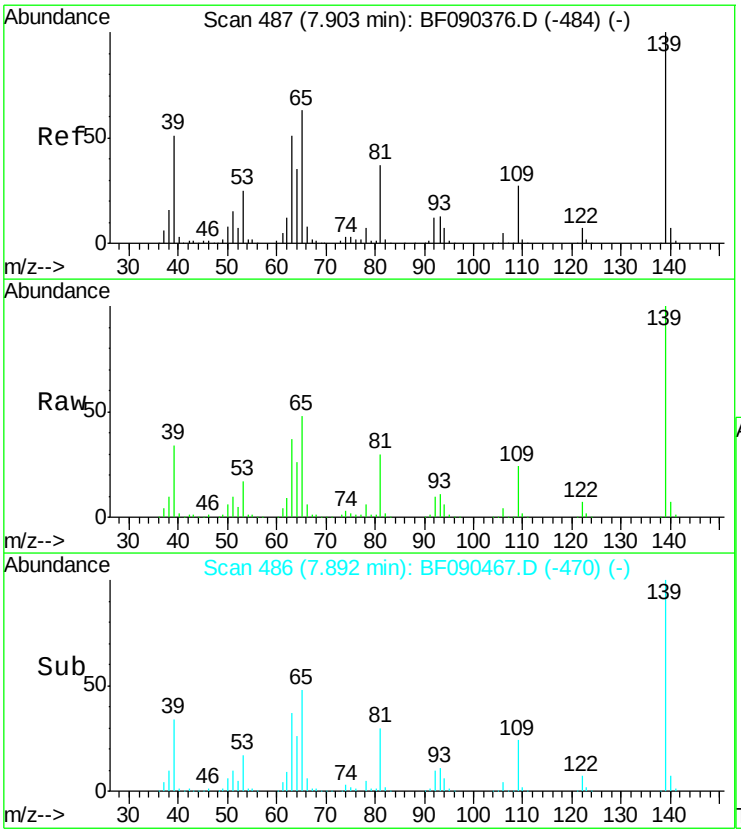
#25
Isophorone
Concen: 41.06 ng
RT: 7.81 min Scan# 479
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 82 Resp: 1530287

Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.2	7.8
138	15.6	13.0	19.4

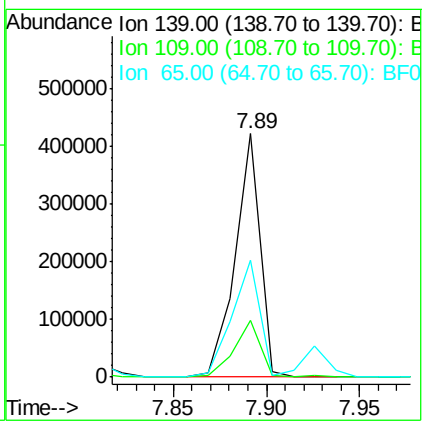


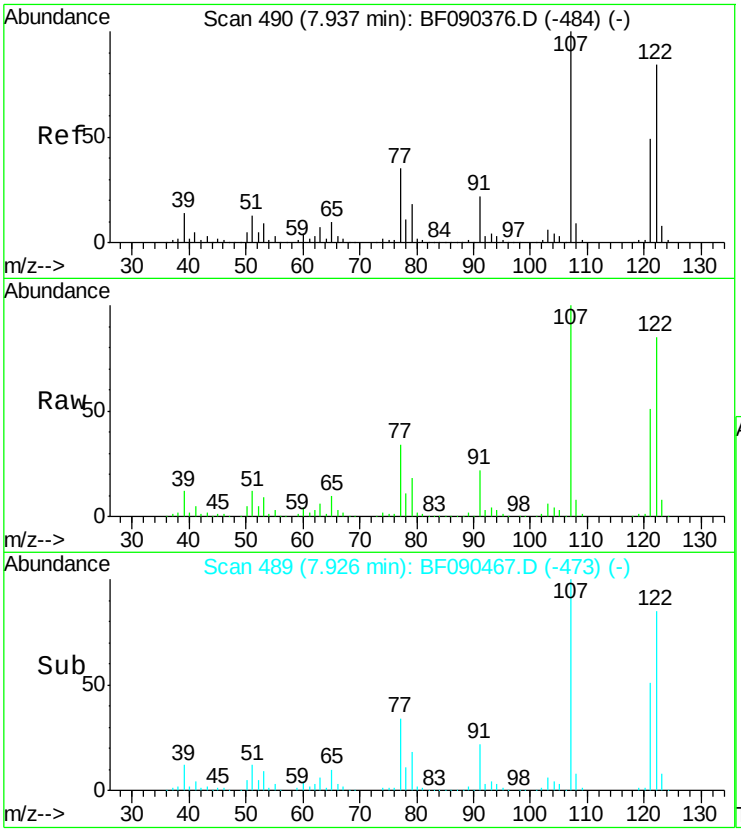


#26
2-Nitrophenol
Concen: 45.26 ng
RT: 7.89 min Scan# 486
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:139 Resp: 394218

Ion	Ratio	Lower	Upper
139	100		
109	23.5	18.9	28.3
65	47.9	31.6	47.4#



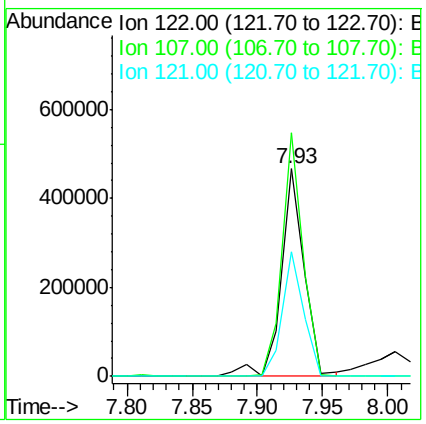


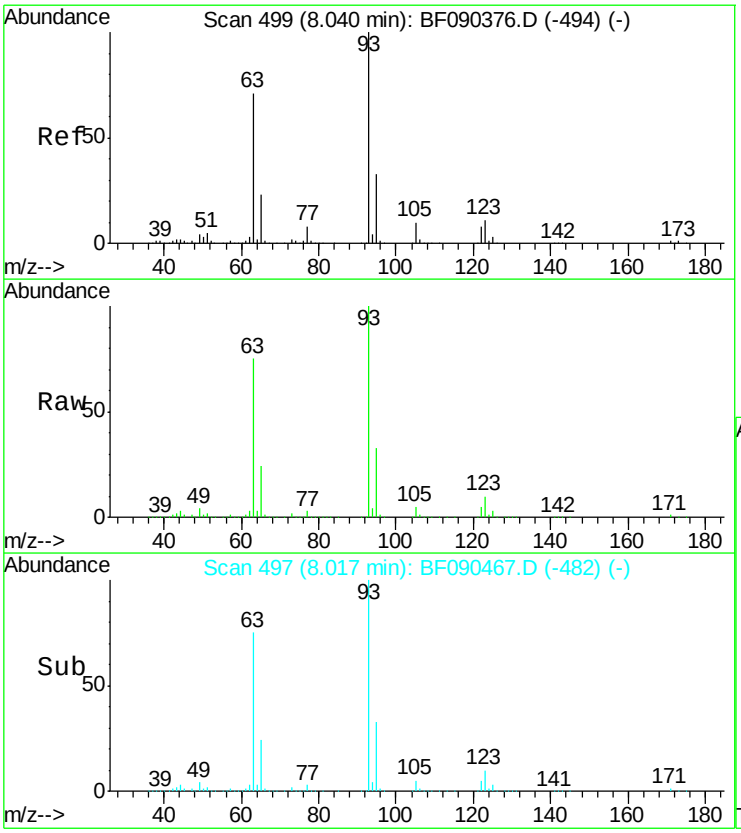
#27
2,4-Dimethylphenol
Concen: 34.13 ng
RT: 7.93 min Scan# 489
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:122 Resp: 578175

Ion	Ratio	Lower	Upper
122	100		
107	117.4	88.6	132.8
121	60.0	47.5	71.3

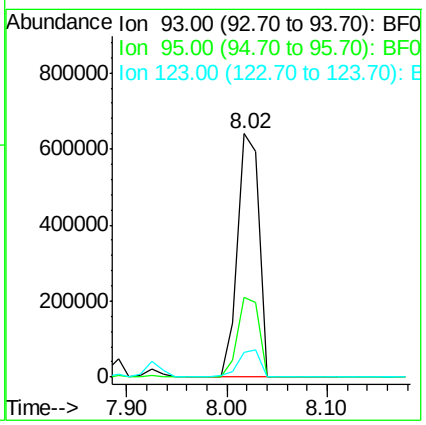


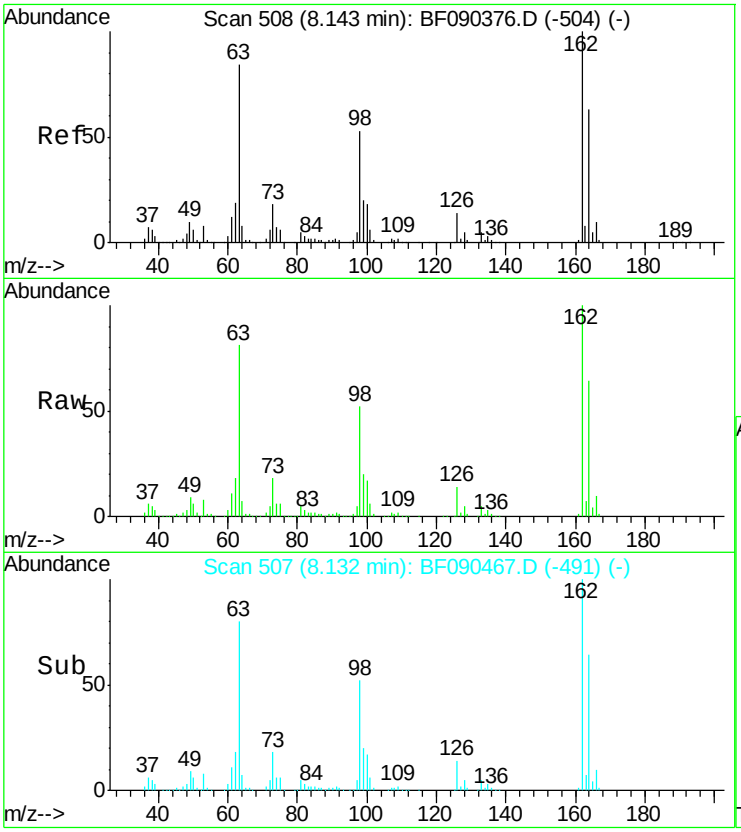


#28
bis(2-Chloroethoxy)methane
Concen: 42.94 ng
RT: 8.02 min Scan# 497
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 93 Resp: 946545

Ion	Ratio	Lower	Upper
93	100		
95	32.8	27.0	40.4
123	10.1	11.1	16.7#



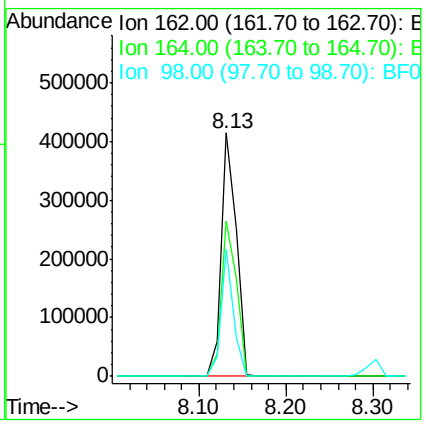


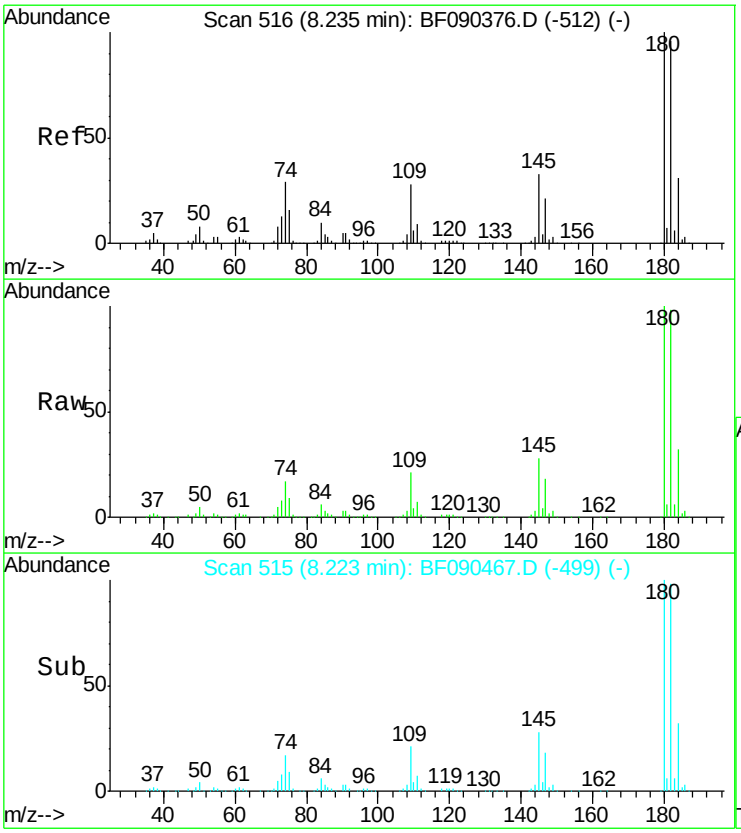
#29
2,4-Dichlorophenol
Concen: 39.01 ng
RT: 8.13 min Scan# 507
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:162 Resp: 502404

Ion	Ratio	Lower	Upper
162	100		
164	63.6	45.7	85.7
98	52.0	13.3	53.3

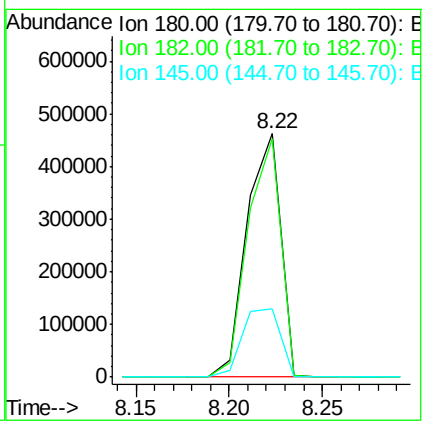


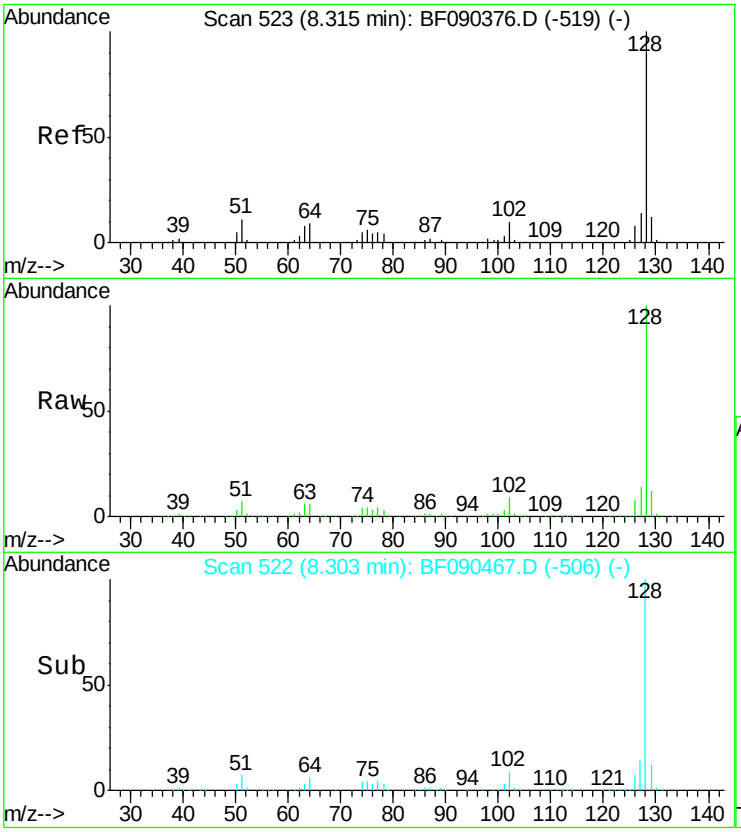


#30
1,2,4-Trichlorobenzene
Concen: 43.55 ng
RT: 8.22 min Scan# 515
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:180 Resp: 578070

Ion	Ratio	Lower	Upper
180	100		
182	97.8	75.3	112.9
145	28.2	27.7	41.5



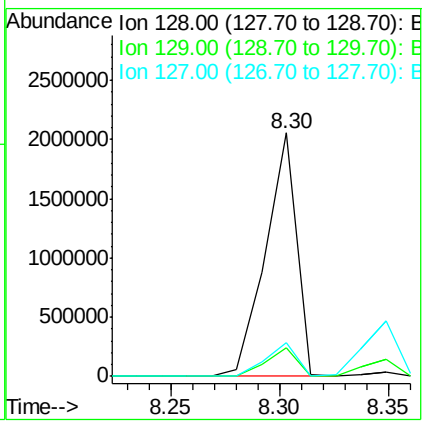


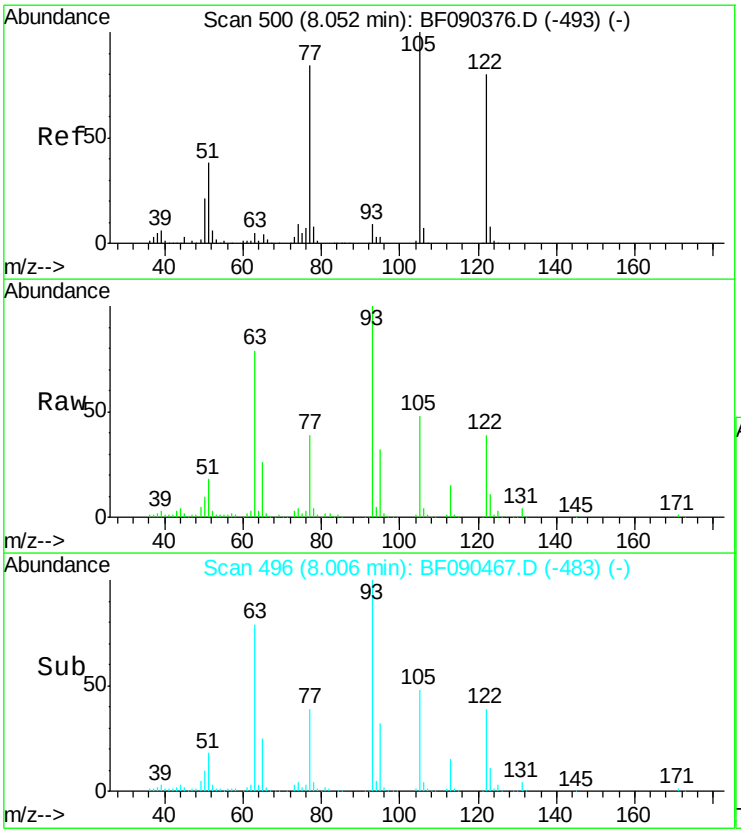
#31
Naphthalene
Concen: 43.35 ng
RT: 8.30 min Scan# 522
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:128 Resp: 2073643

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.7	14.5
127	13.9	11.7	17.5

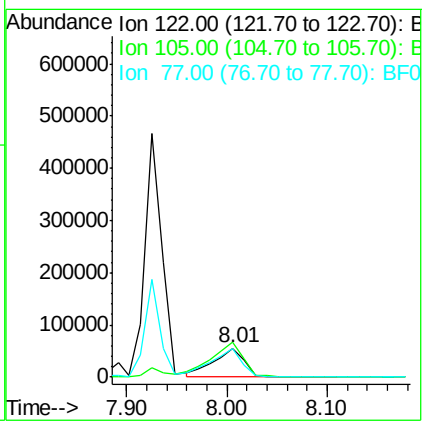


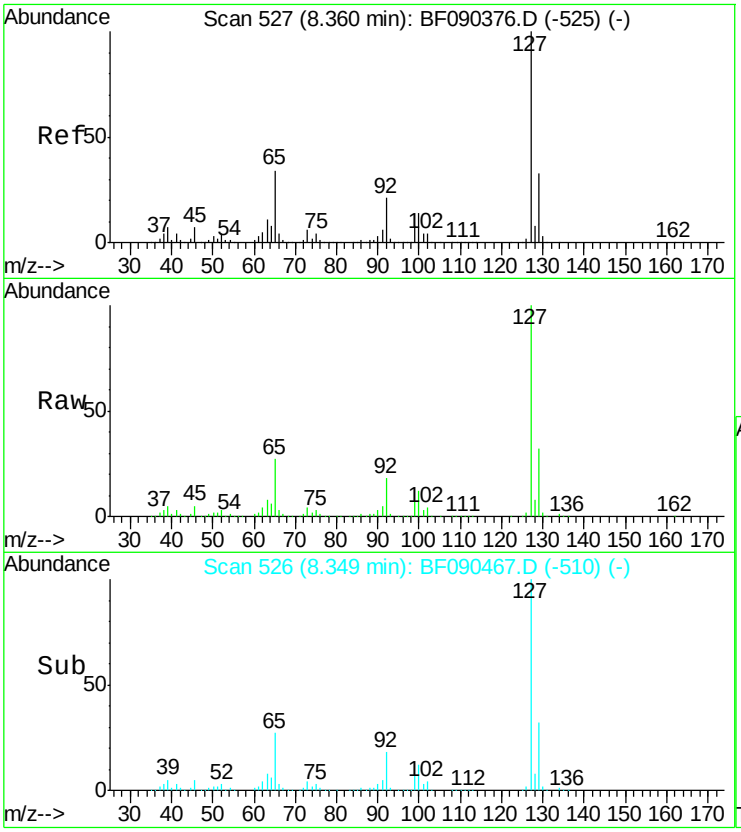


#32
Benzoic acid
Concen: 10.00 ng
RT: 8.01 min Scan# 496
Delta R.T. -0.05 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:122 Resp: 117774

Ion	Ratio	Lower	Upper
122	100		
105	122.3	103.9	143.9
77	100.5	74.6	114.6



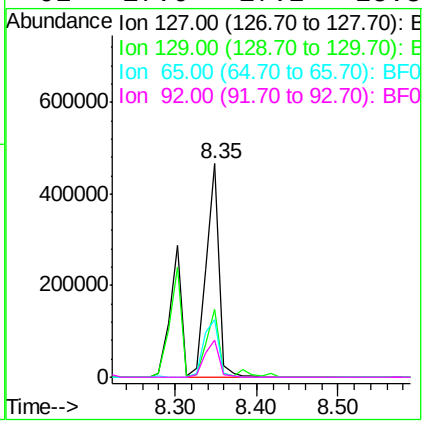


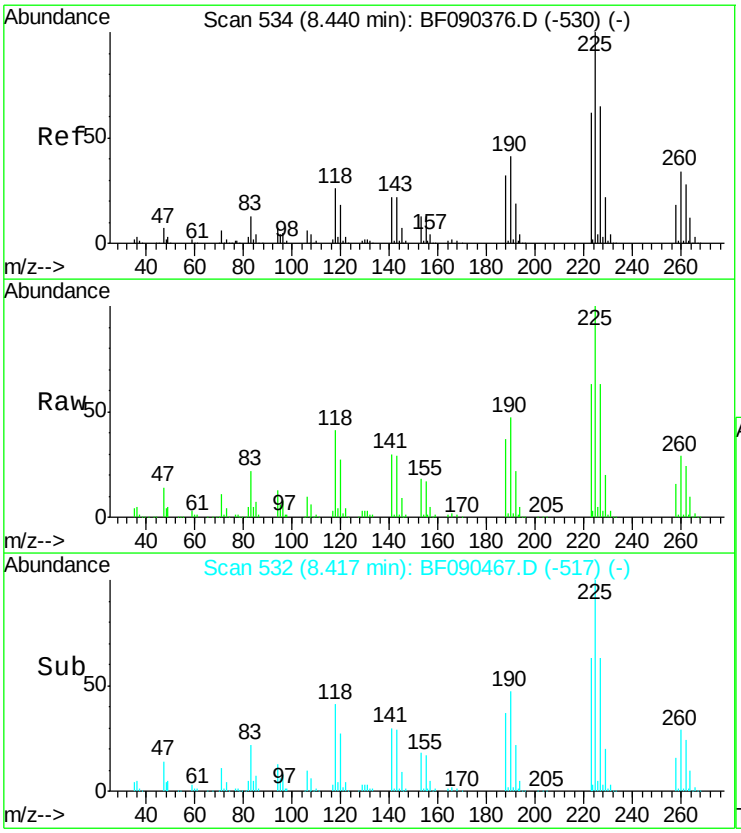
#33
4-Chloroaniline
Concen: 26.51 ng
RT: 8.35 min Scan# 526
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:127 Resp: 524101

Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.2	39.4
65	26.8	32.5	48.7#
92	17.6	17.2	25.8

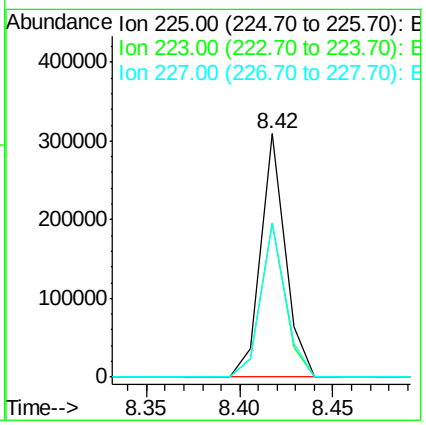


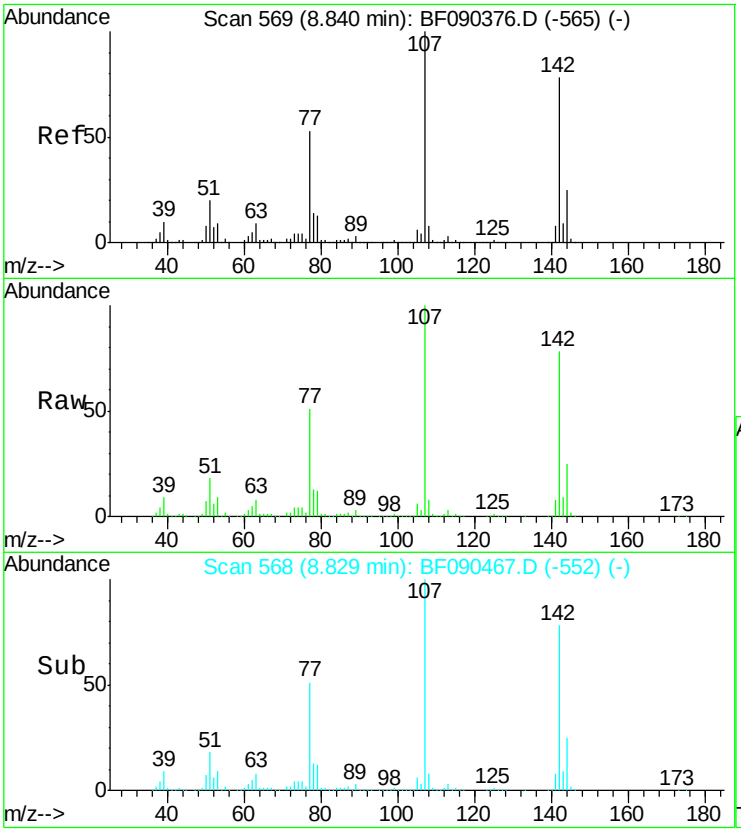


#34
Hexachlorobutadiene
Concen: 37.97 ng
RT: 8.42 min Scan# 532
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:225 Resp: 281618

Ion	Ratio	Lower	Upper
225	100		
223	63.5	51.0	76.4
227	63.4	50.8	76.2



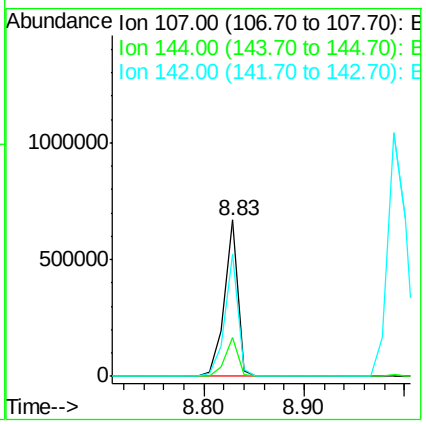


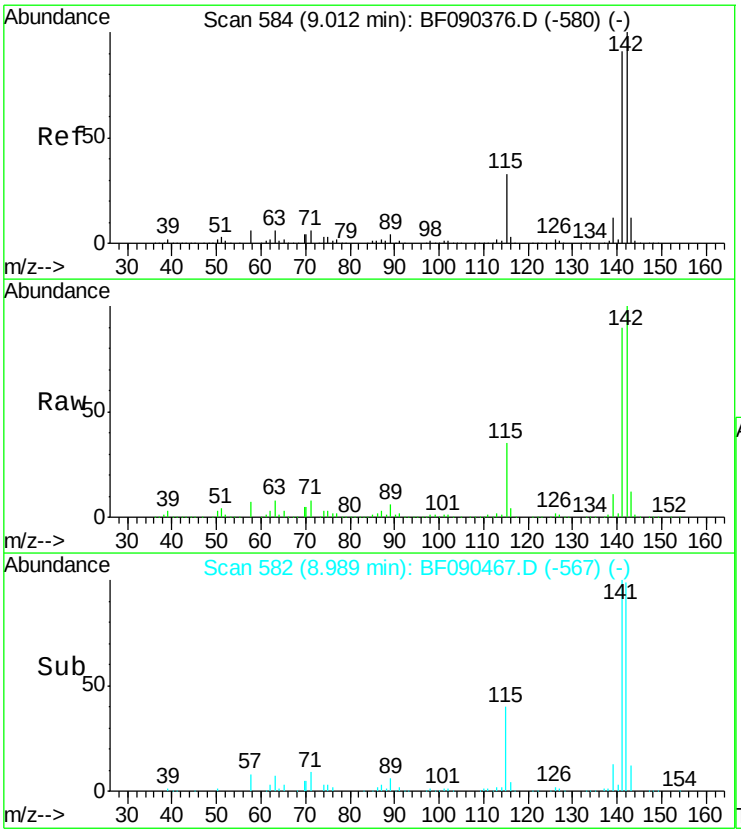
#36
4-Chloro-3-methylphenol
Concen: 38.90 ng
RT: 8.83 min Scan# 568
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:107 Resp: 627335

Ion	Ratio	Lower	Upper
107	100		
144	25.2	19.8	29.8
142	78.0	60.7	91.1

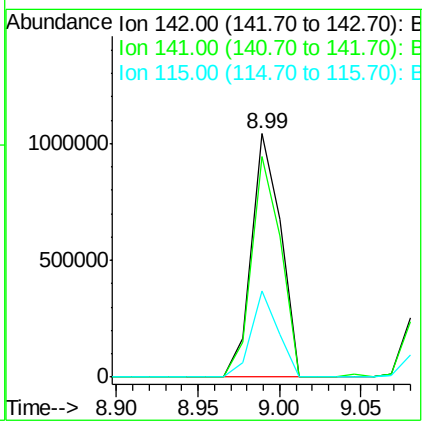


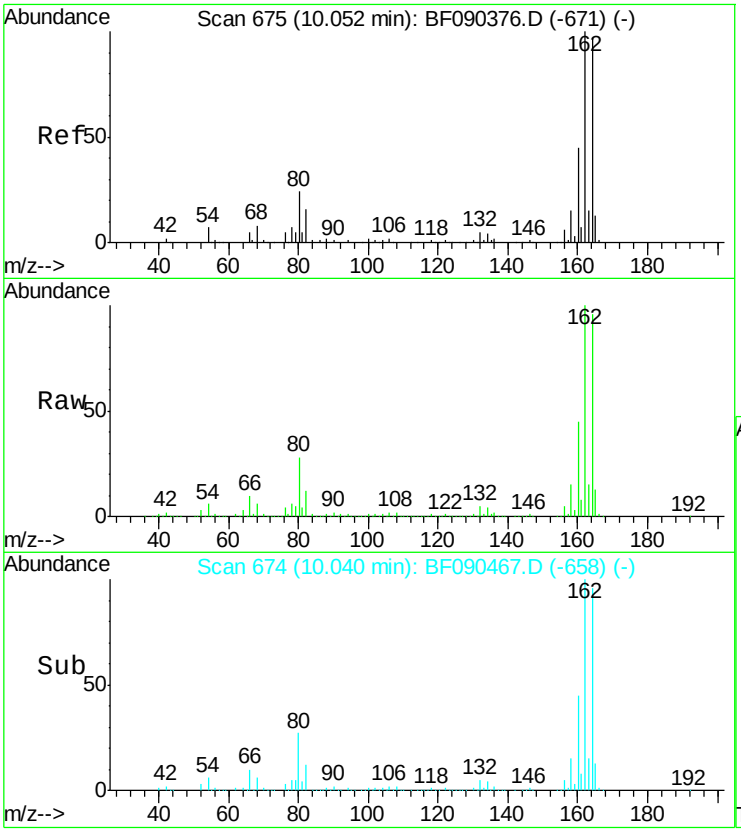


#37
2-Methylnaphthalene
Concen: 44.75 ng
RT: 8.99 min Scan# 582
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:142 Resp: 1295921

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.8	107.8
115	35.4	28.8	43.2



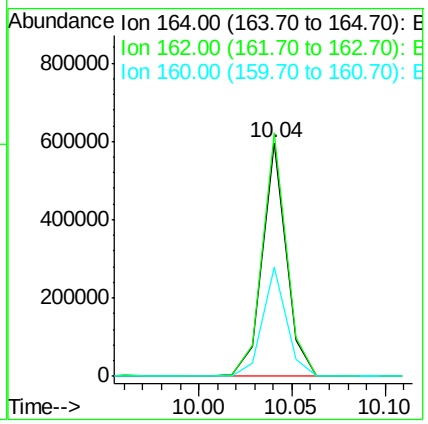


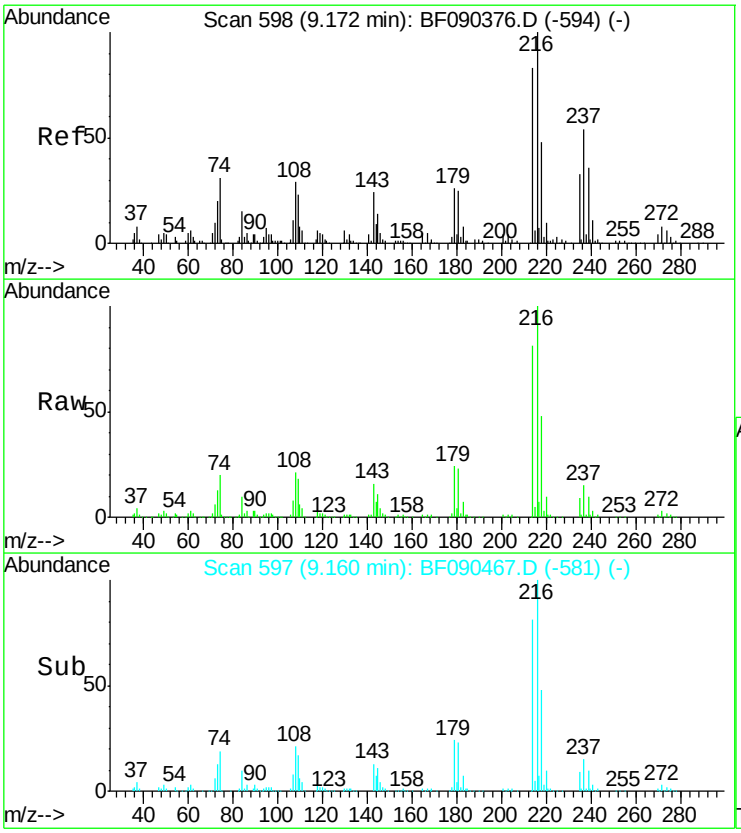
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.04 min Scan# 674
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:164 Resp: 528100

Ion	Ratio	Lower	Upper
164	100		
162	104.2	80.1	120.1
160	46.6	36.3	54.5

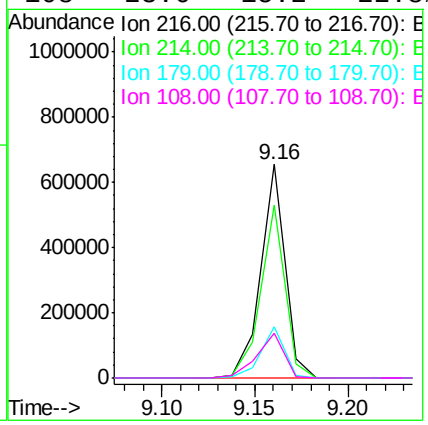


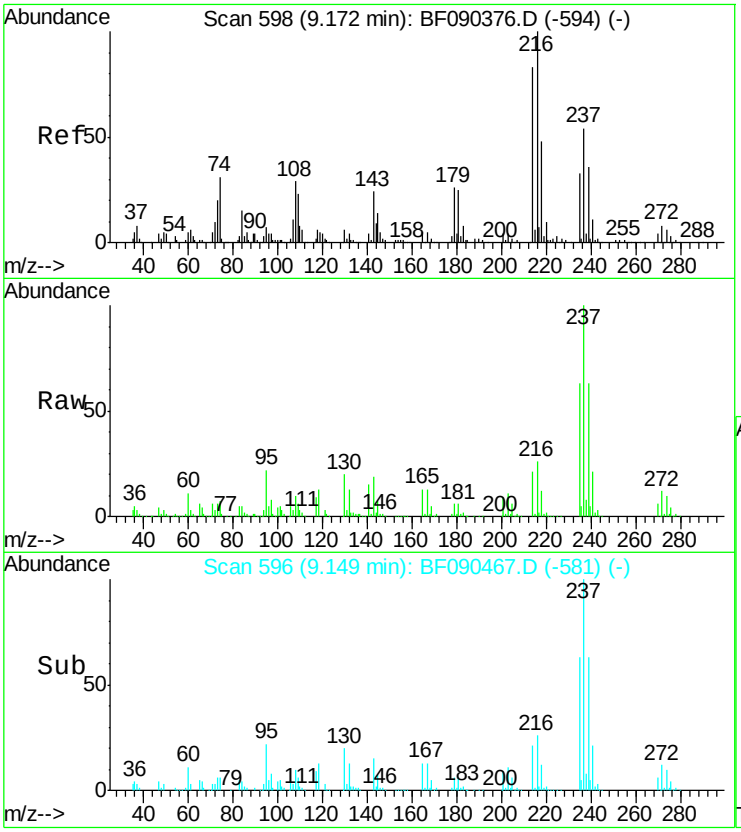


#39
1,2,4,5-Tetrachlorobenzene
Concen: 42.16 ng
RT: 9.16 min Scan# 597
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:216 Resp: 587071

Ion	Ratio	Lower	Upper
216	100		
214	80.6	64.2	96.2
179	23.7	18.0	27.0
108	23.6	15.2	22.8#



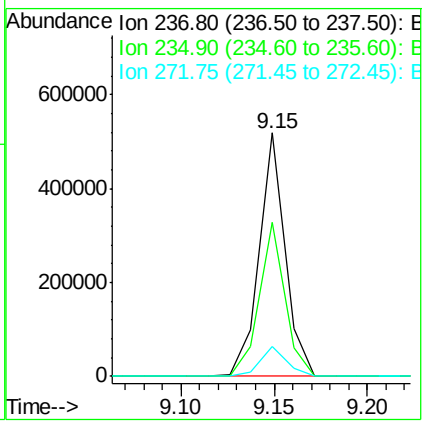


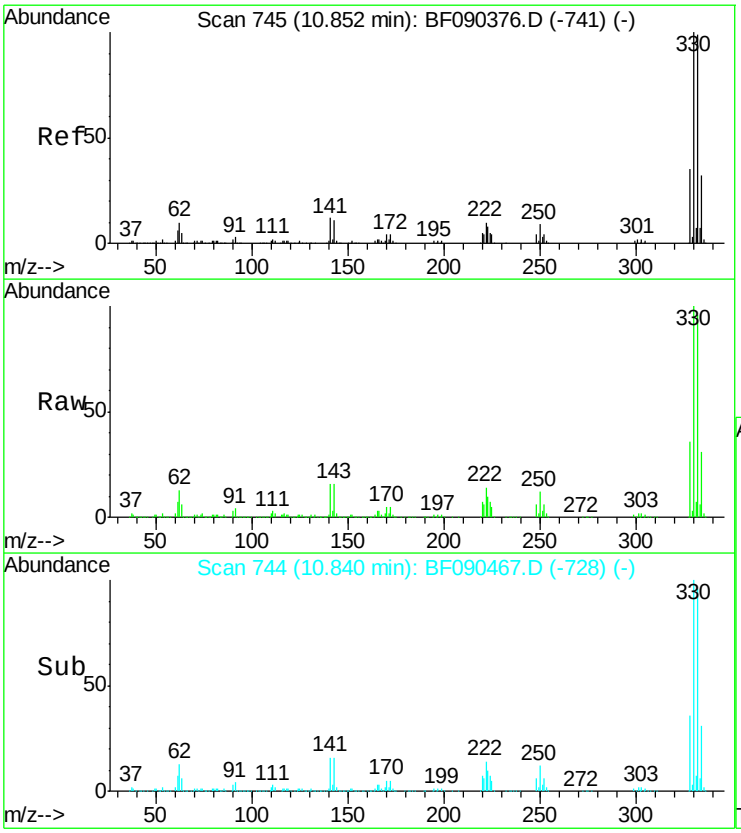
#40
Hexachlorocyclopentadiene
Concen: 64.86 ng
RT: 9.15 min Scan# 596
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:237 Resp: 495041

Ion	Ratio	Lower	Upper
237	100		
235	63.4	43.6	83.6
272	12.1	0.0	32.7

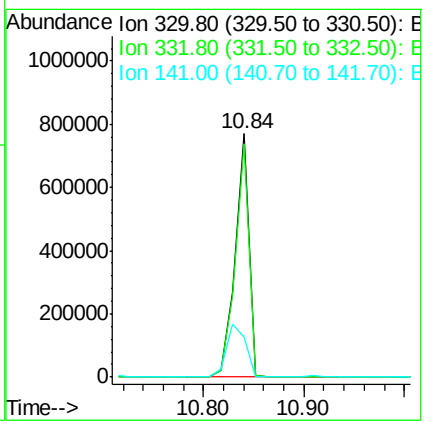


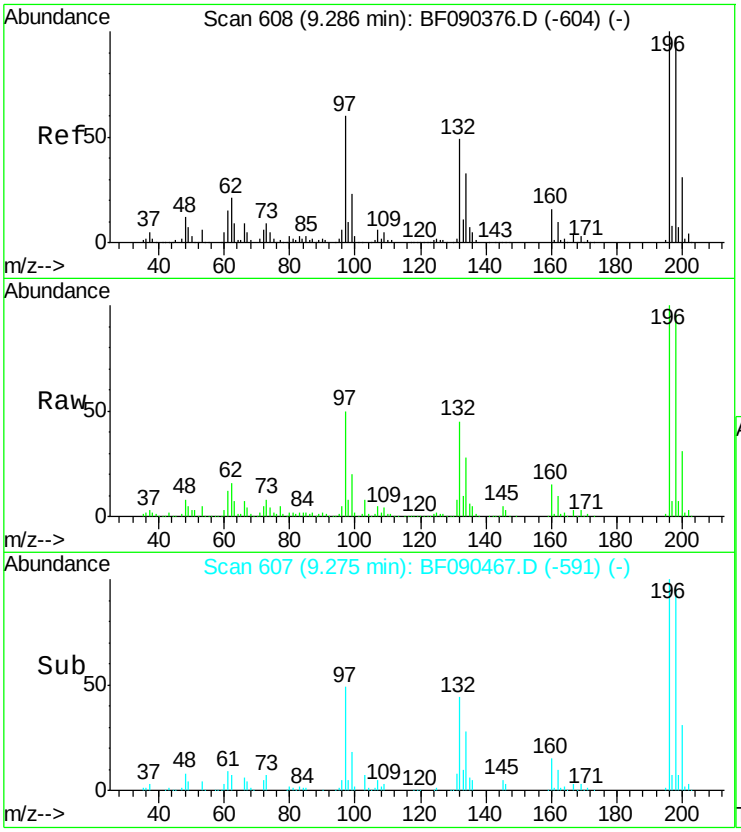


#41
2,4,6-Tribromophenol
Concen: 171.19 ng
RT: 10.84 min Scan# 744
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:330 Resp: 735119

Ion	Ratio	Lower	Upper
330	100		
332	95.6	75.4	113.0
141	29.8	26.9	40.3



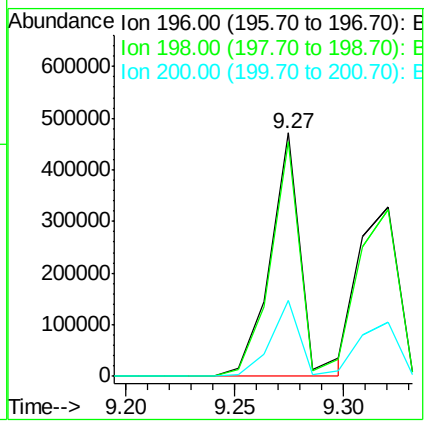


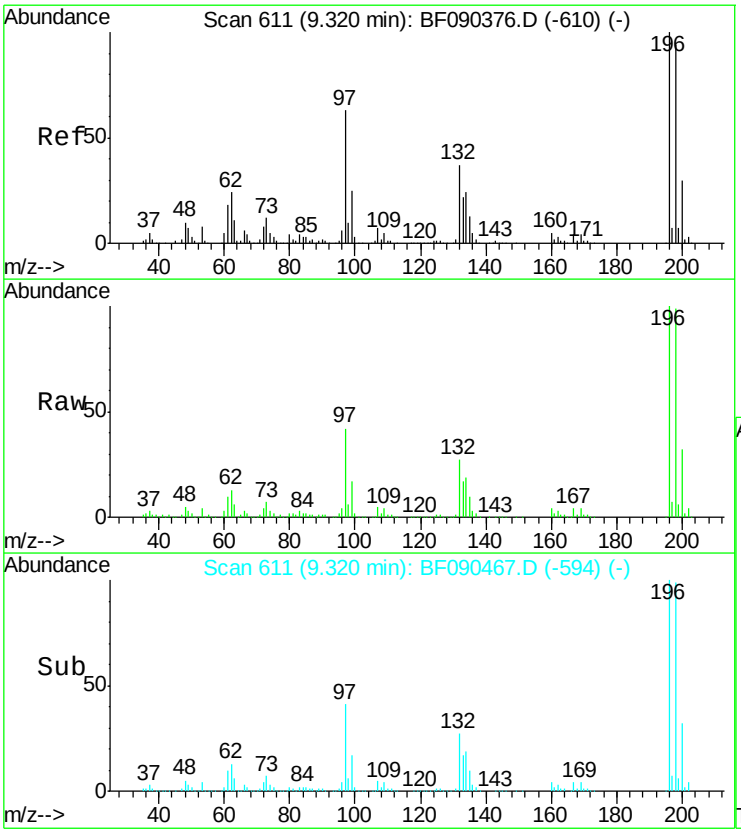
#42
2,4,6-Trichlorophenol
Concen: 48.38 ng
RT: 9.27 min Scan# 607
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:196 Resp: 464856

Ion	Ratio	Lower	Upper
196	100		
198	96.1	78.9	118.3
200	31.3	25.4	38.2

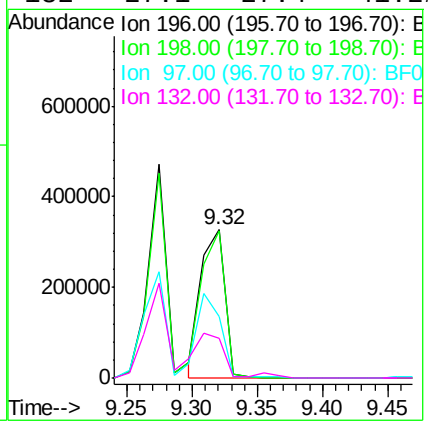


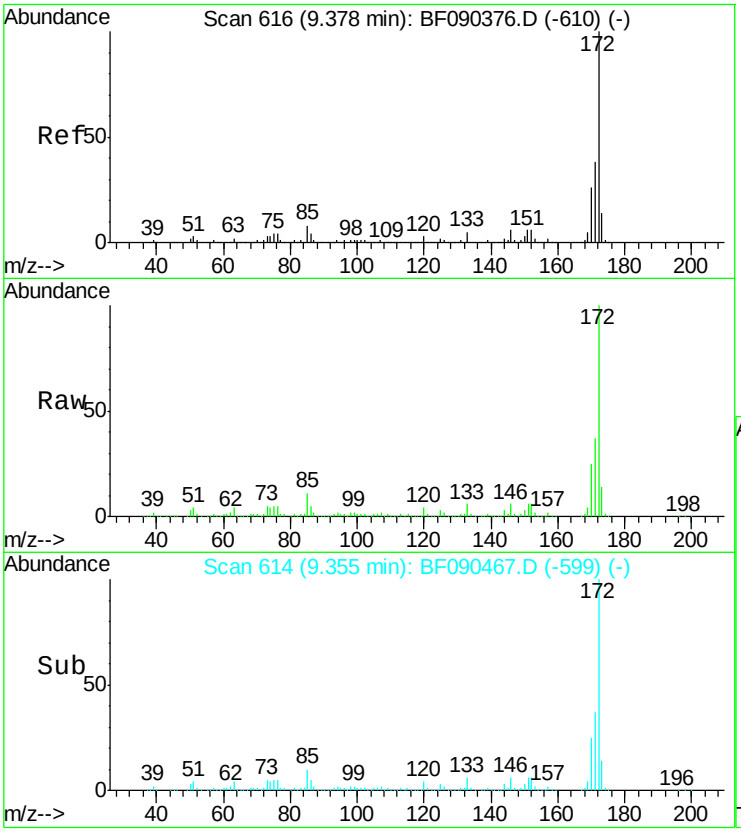


#43
2,4,5-Trichlorophenol
Concen: 45.98 ng
RT: 9.32 min Scan# 611
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:196 Resp: 417715

Ion	Ratio	Lower	Upper
196	100		
198	99.1	78.1	117.1
97	41.7	48.1	72.1#
132	27.1	27.4	41.2#



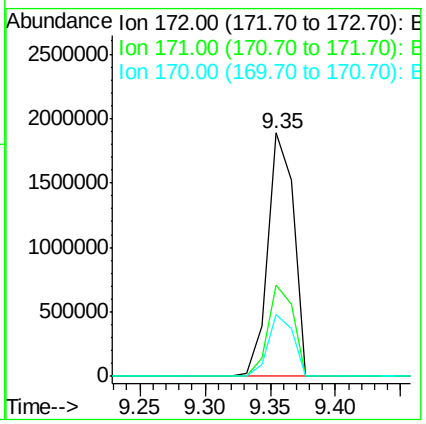


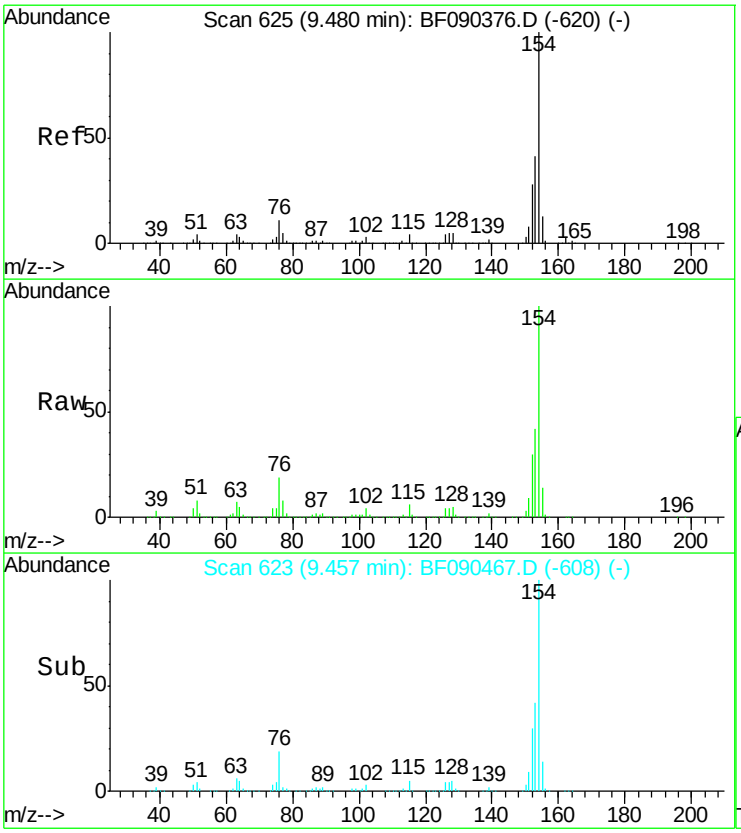
#44
2-Fluorobiphenyl
Concen: 82.92 ng
RT: 9.35 min Scan# 614
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:172 Resp: 2628333

Ion	Ratio	Lower	Upper
172	100		
171	37.3	31.8	47.8
170	25.3	21.7	32.5

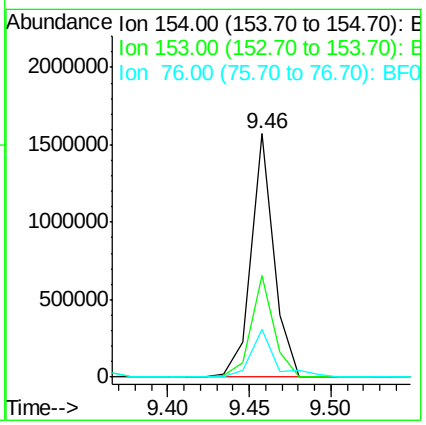


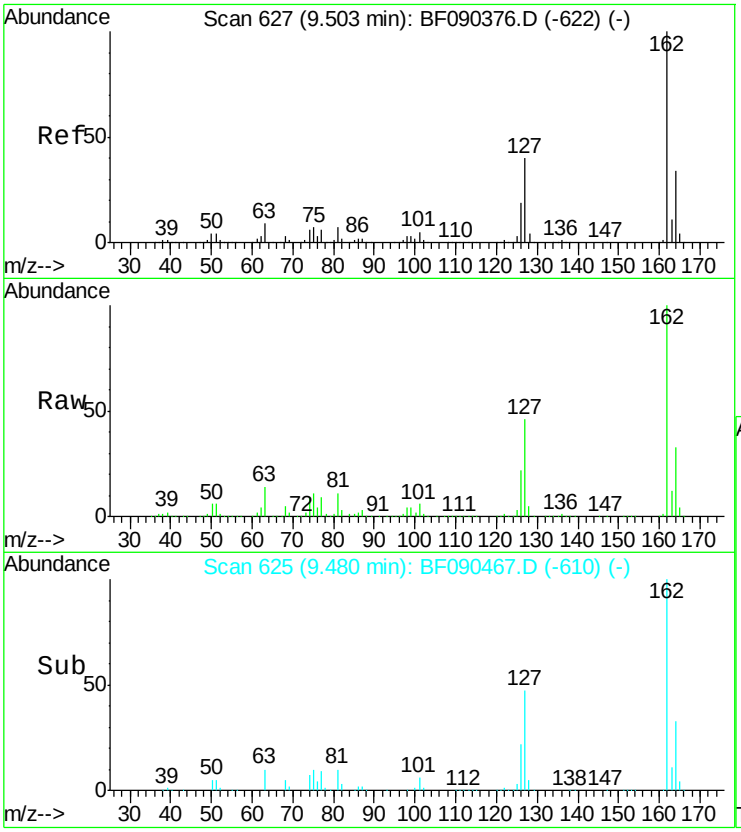


#45
1,1'-Biphenyl
Concen: 38.87 ng
RT: 9.46 min Scan# 623
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:154 Resp: 1521274

Ion	Ratio	Lower	Upper
154	100		
153	41.9	23.8	63.8
76	19.5	0.0	35.8



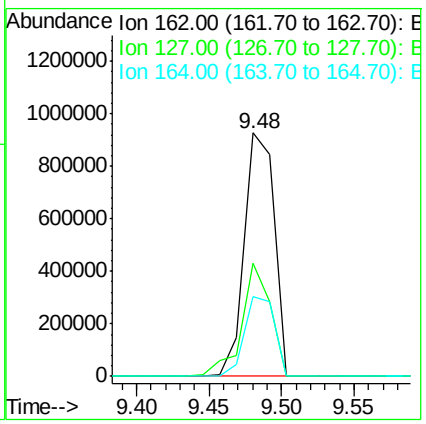


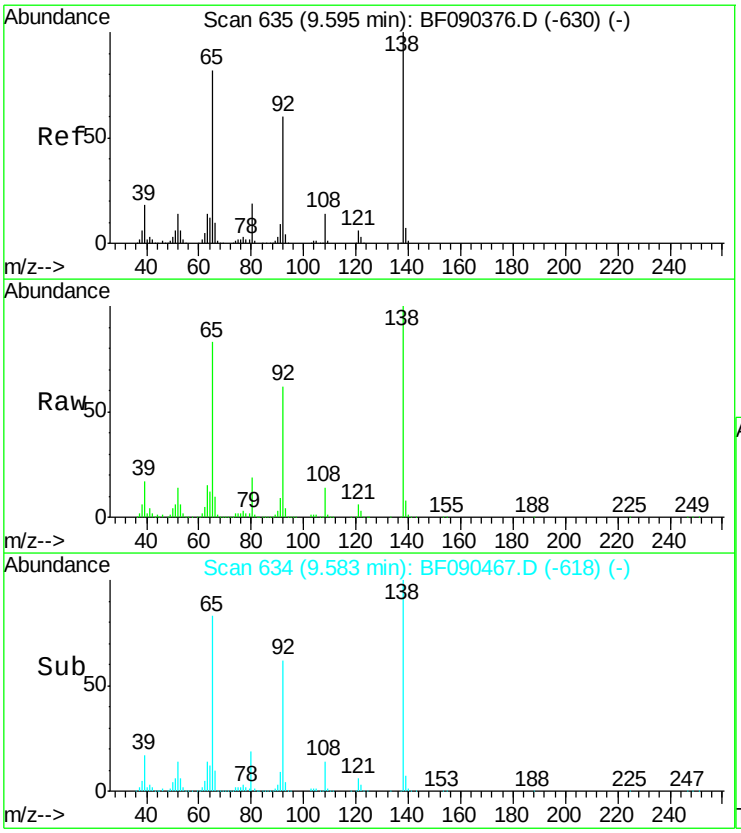
#46
2-Chloronaphthalene
Concen: 45.69 ng
RT: 9.48 min Scan# 625
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:162 Resp: 1321040

Ion	Ratio	Lower	Upper
162	100		
127	46.3	35.6	53.4
164	32.6	27.5	41.3

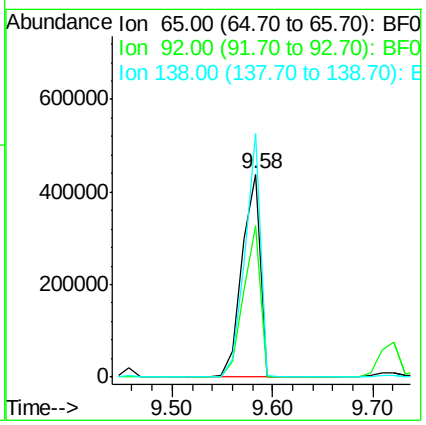


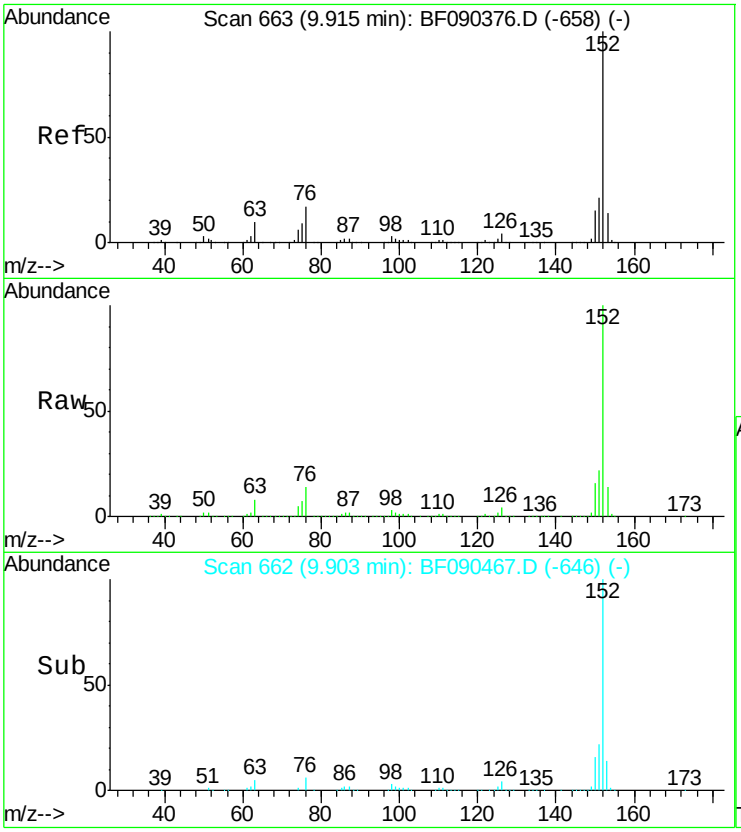


#47
2-Nitroaniline
Concen: 48.29 ng
RT: 9.58 min Scan# 634
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion: 65 Resp: 550870

Ion	Ratio	Lower	Upper
65	100		
92	74.7	51.7	77.5
138	119.9	79.0	118.4#



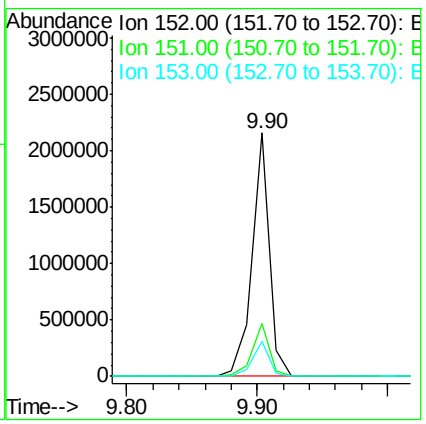


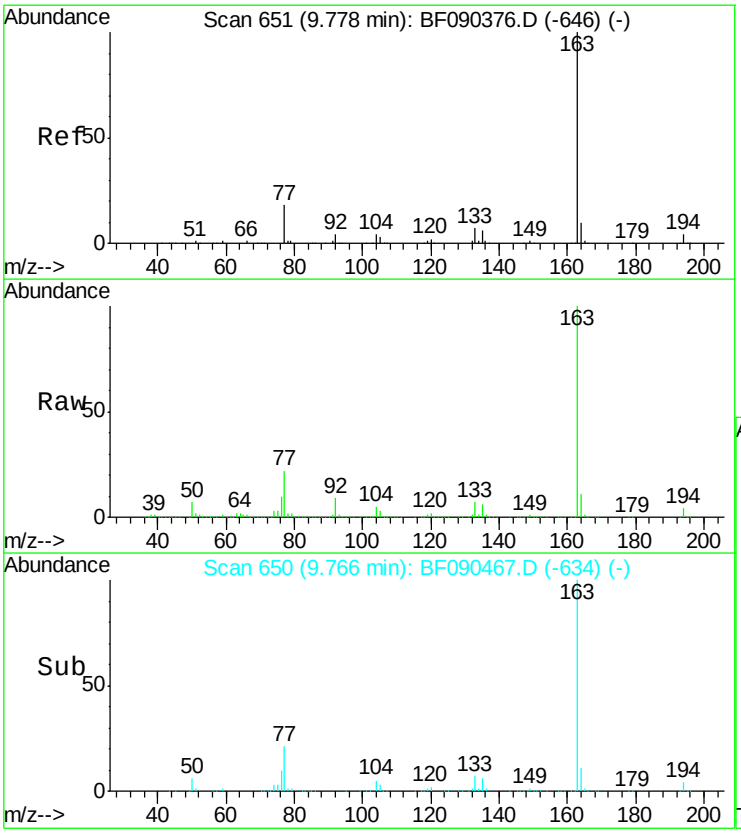
#48
Acenaphthylene
Concen: 41.69 ng
RT: 9.90 min Scan# 662
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:152 Resp: 1988989

Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.4	26.0
153	14.4	11.6	17.4

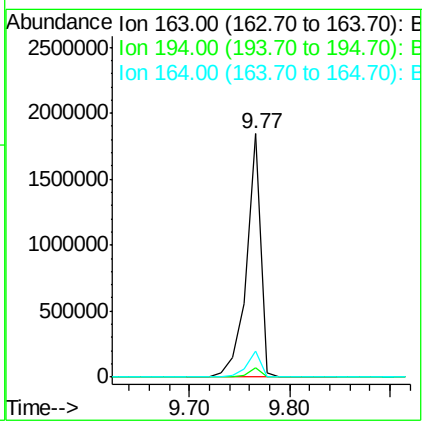


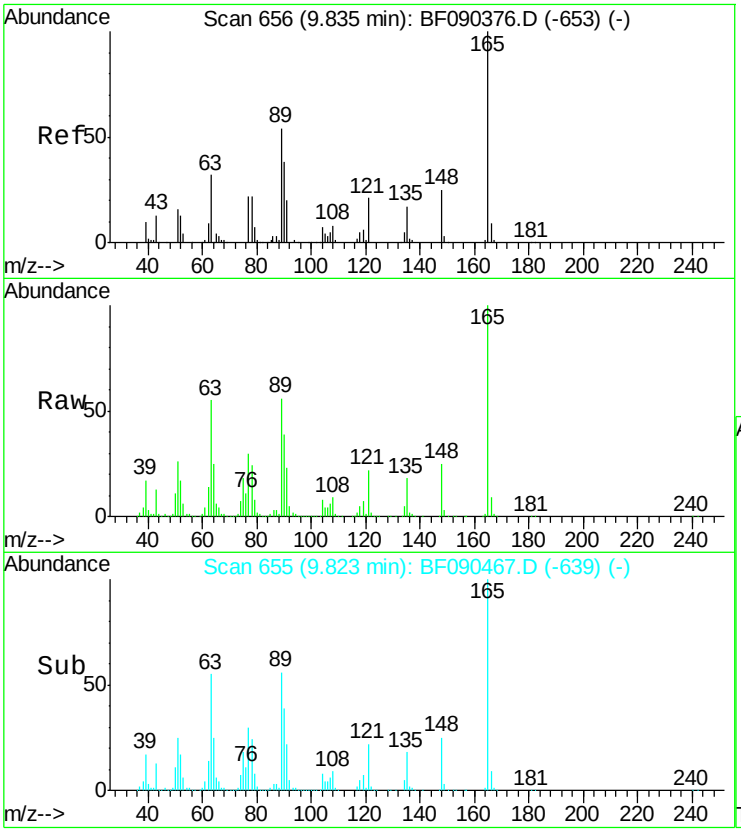


#49
Dimethylphthalate
Concen: 53.03 ng
RT: 9.77 min Scan# 650
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:163 Resp: 1793649

Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.8	4.2
164	10.8	9.0	13.4



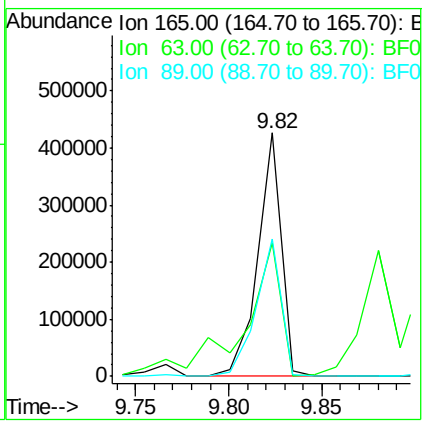


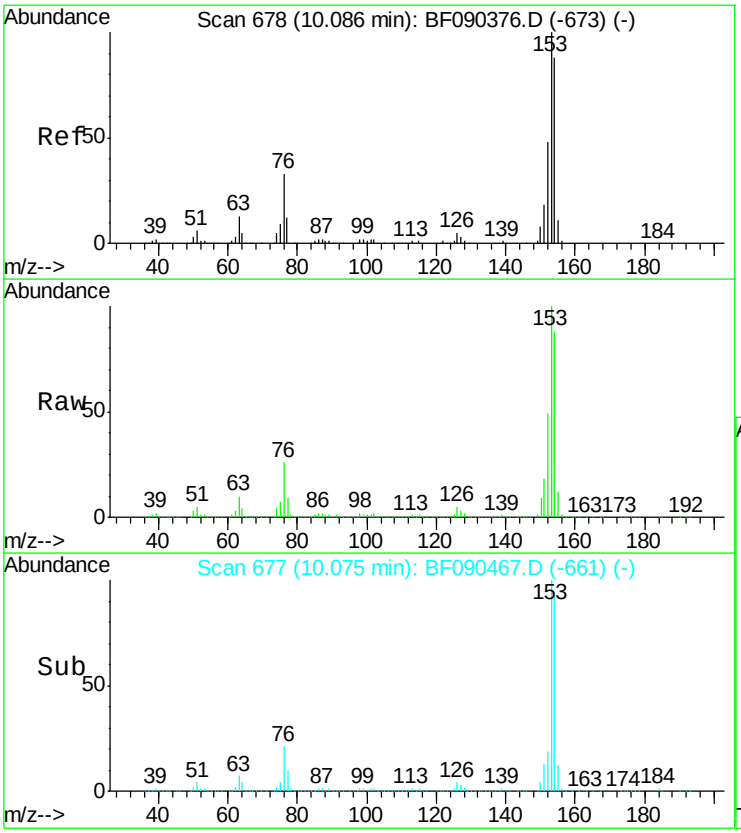
#50
2,6-Dinitrotoluene
Concen: 50.36 ng
RT: 9.82 min Scan# 655
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:165 Resp: 378180

Ion	Ratio	Lower	Upper
165	100		
63	55.0	58.0	87.0#
89	56.4	51.2	76.8

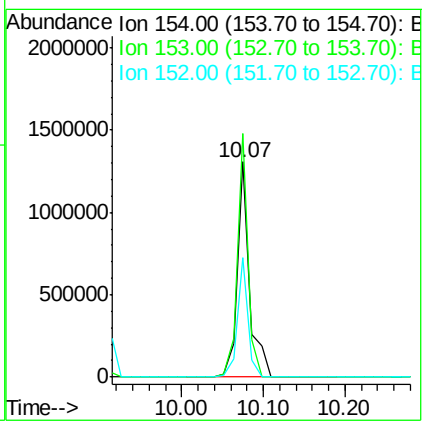


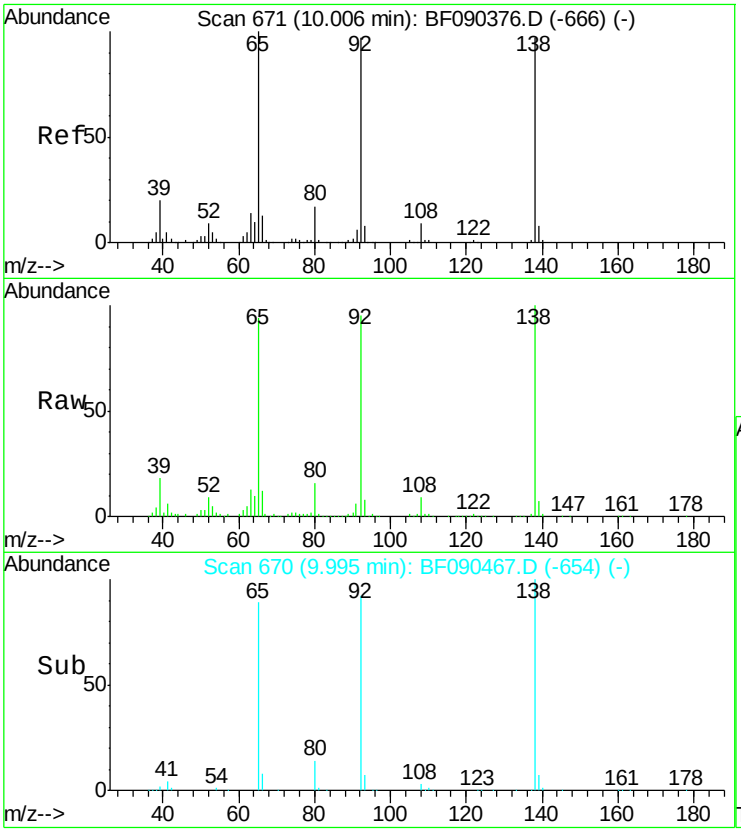


#51
Acenaphthene
Concen: 45.95 ng
RT: 10.07 min Scan# 677
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:154 Resp: 1366853

Ion	Ratio	Lower	Upper
154	100		
153	113.2	88.6	133.0
152	55.3	42.6	64.0



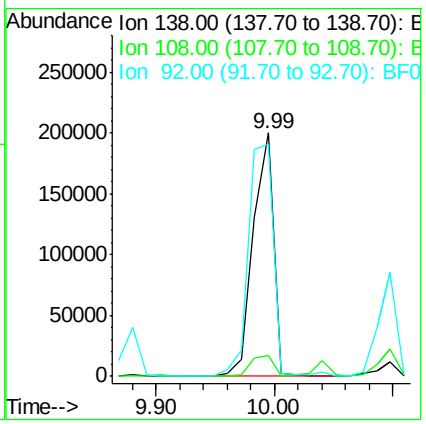


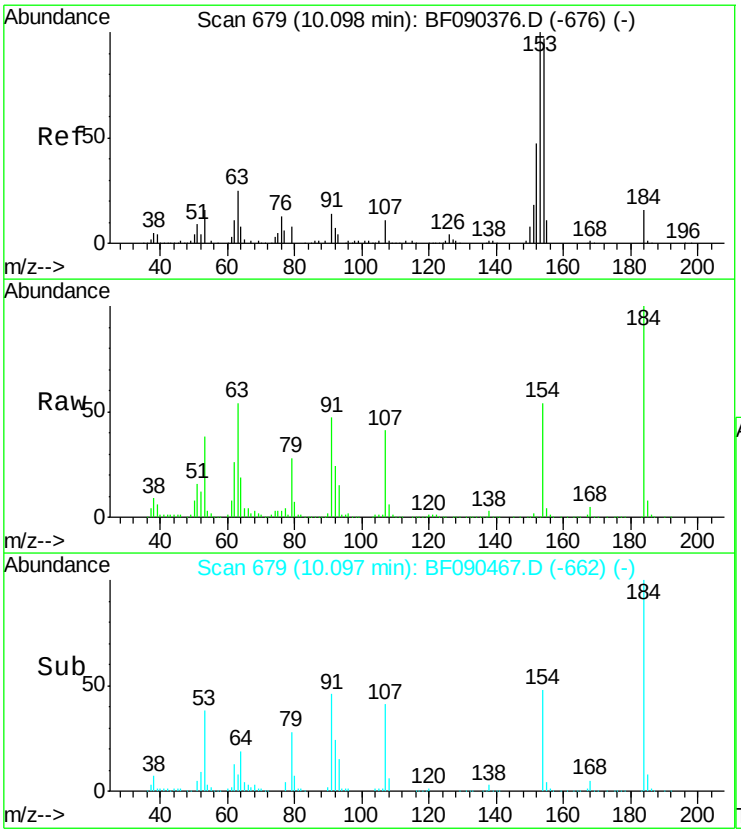
#52
3-Nitroaniline
Concen: 27.65 ng
RT: 9.99 min Scan# 670
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:138 Resp: 242534

Ion	Ratio	Lower	Upper
138	100		
108	8.7	9.7	14.5#
92	95.5	97.1	145.7#

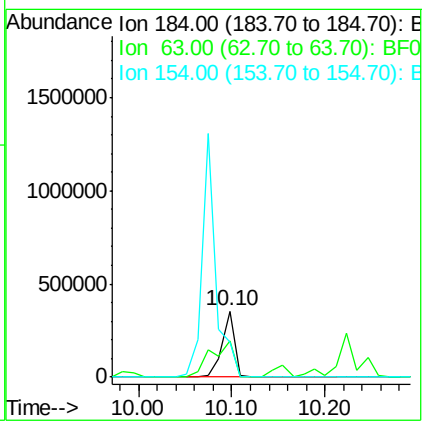


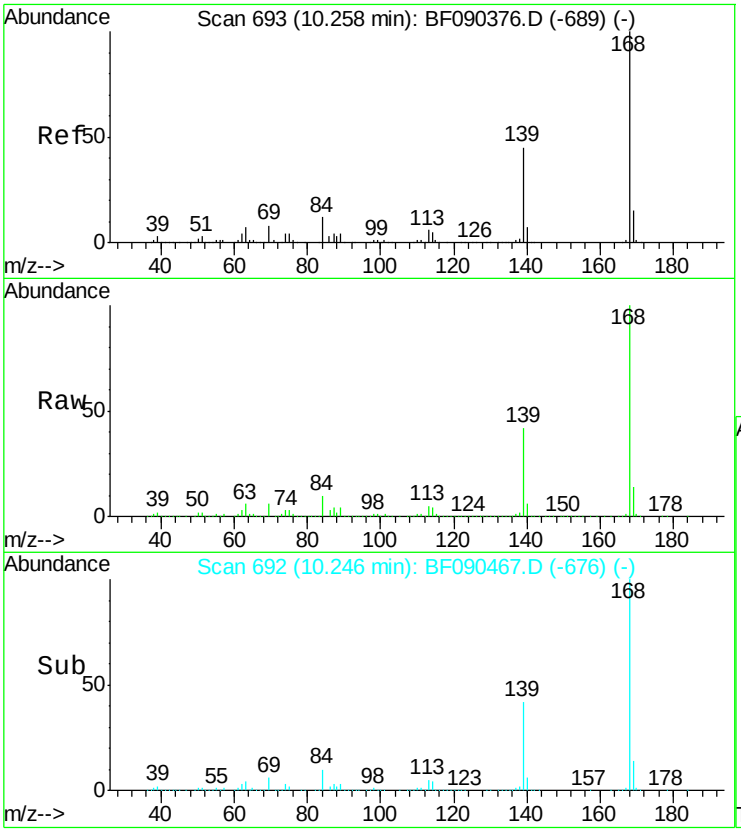


#53
2,4-Dinitrophenol
Concen: 98.12 ng
RT: 10.10 min Scan# 679
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:184 Resp: 328476

Ion	Ratio	Lower	Upper
184	100		
63	54.2	41.9	62.9
154	53.7	48.9	73.3



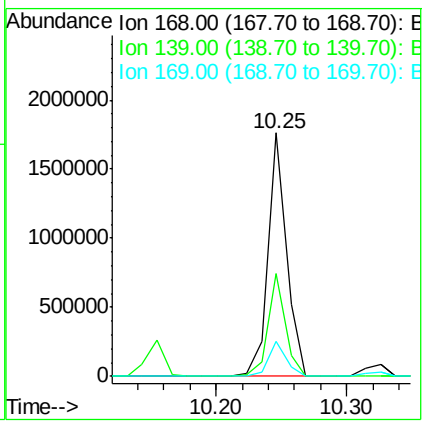


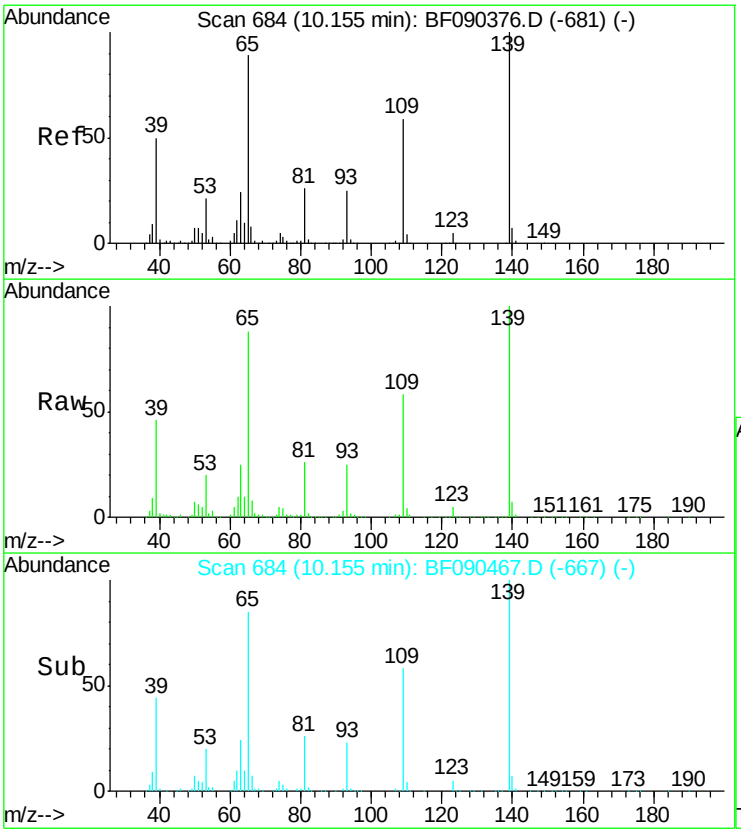
#54
Dibenzofuran
Concen: 45.52 ng
RT: 10.25 min Scan# 692
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:168 Resp: 1752740

Ion	Ratio	Lower	Upper
168	100		
139	42.5	29.6	44.4
169	14.3	11.3	16.9

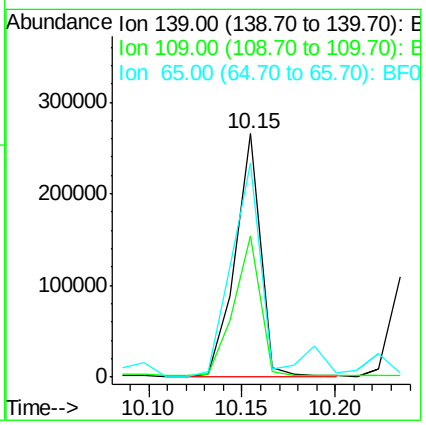


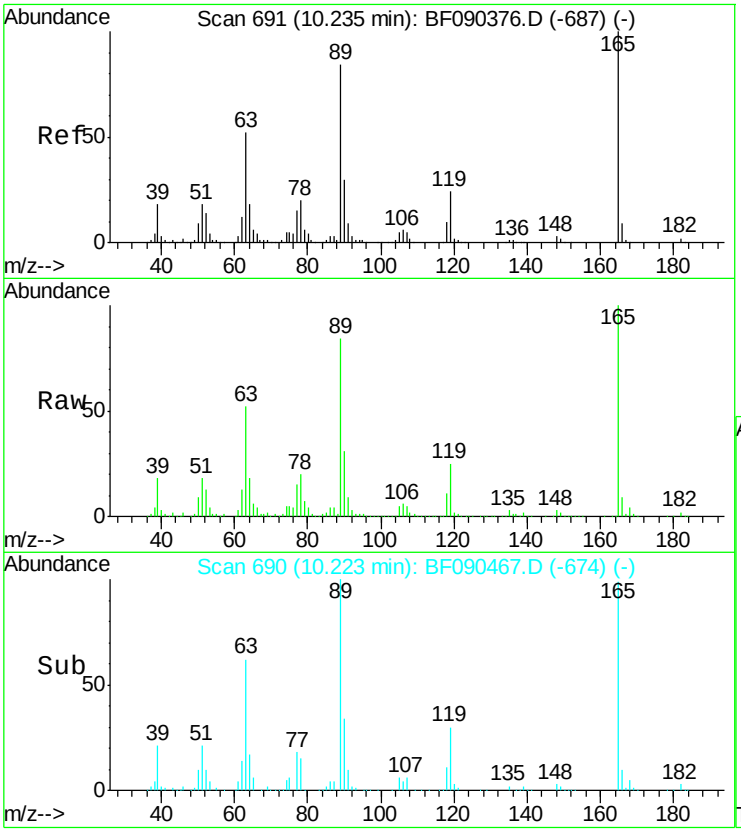


#55
4-Nitrophenol
Concen: 33.16 ng
RT: 10.15 min Scan# 684
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:139 Resp: 254527

Ion	Ratio	Lower	Upper
139	100		
109	57.8	43.6	83.6
65	87.8	87.5	127.5



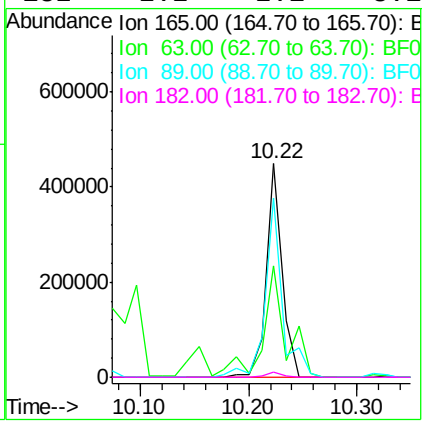


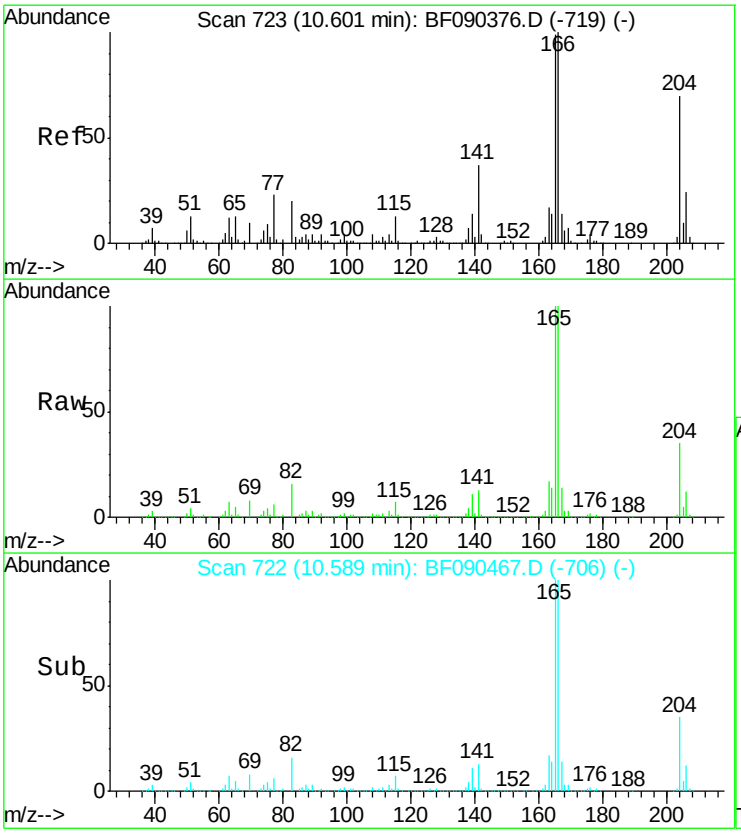
#56
2,4-Dinitrotoluene
Concen: 45.53 ng
RT: 10.22 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:165 Resp: 455006

Ion	Ratio	Lower	Upper
165	100		
63	52.0	17.8	26.6#
89	83.7	33.2	49.8#
182	2.2	2.1	3.1

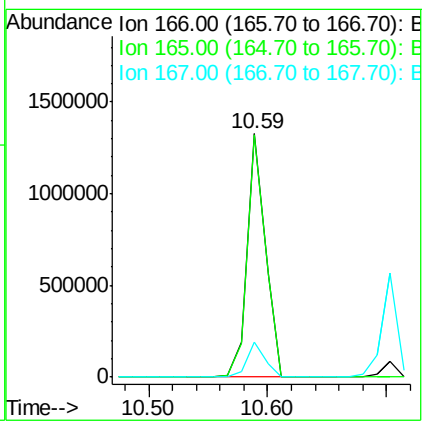


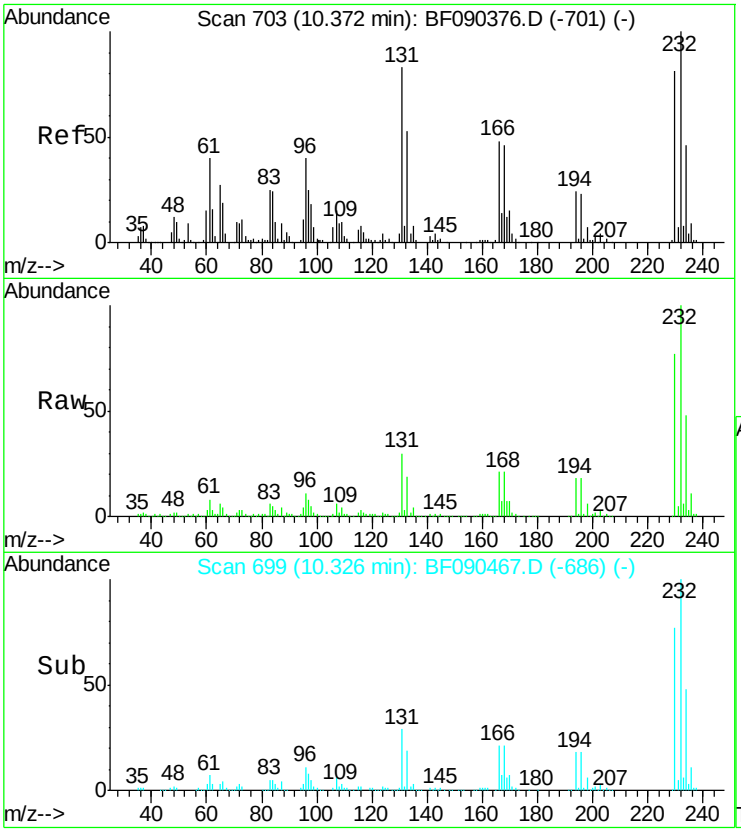


#57
Fluorene
Concen: 44.31 ng
RT: 10.59 min Scan# 722
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:166 Resp: 1433808

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.2	118.8
167	14.2	11.1	16.7



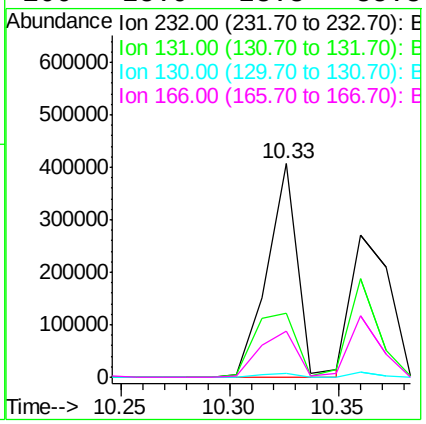


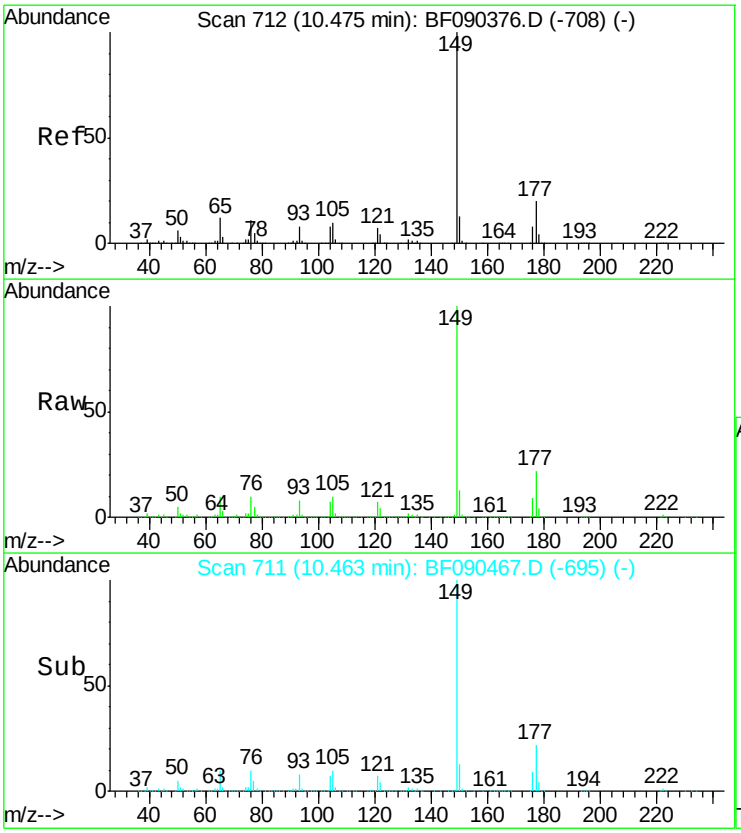
#58
2,3,4,6-Tetrachlorophenol
Concen: 59.18 ng
RT: 10.33 min Scan# 699
Delta R.T. -0.05 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:232 Resp: 401542

Ion	Ratio	Lower	Upper
232	100		
131	41.3	34.5	51.7
130	2.4	1.6	2.4
166	25.9	23.8	35.8

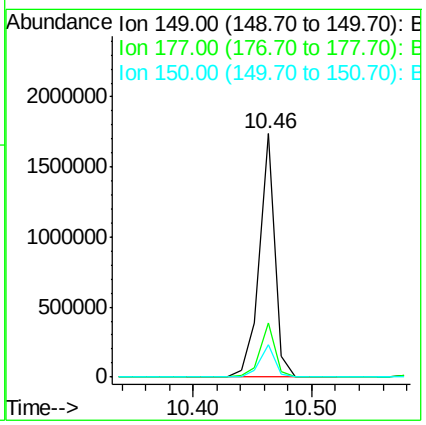


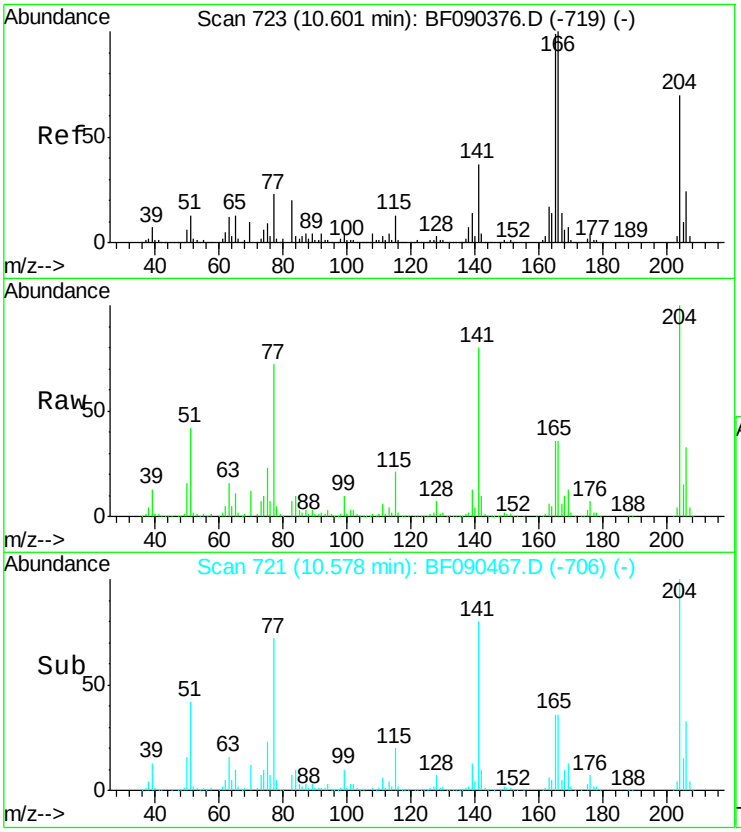


#59
Diethylphthalate
Concen: 45.55 ng
RT: 10.46 min Scan# 711
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:149 Resp: 1593872

Ion	Ratio	Lower	Upper
149	100		
177	22.3	21.1	31.7
150	13.3	10.2	15.2



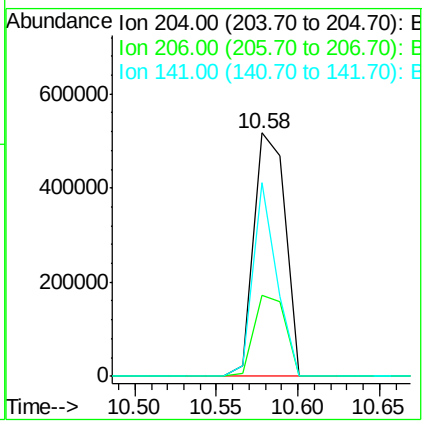


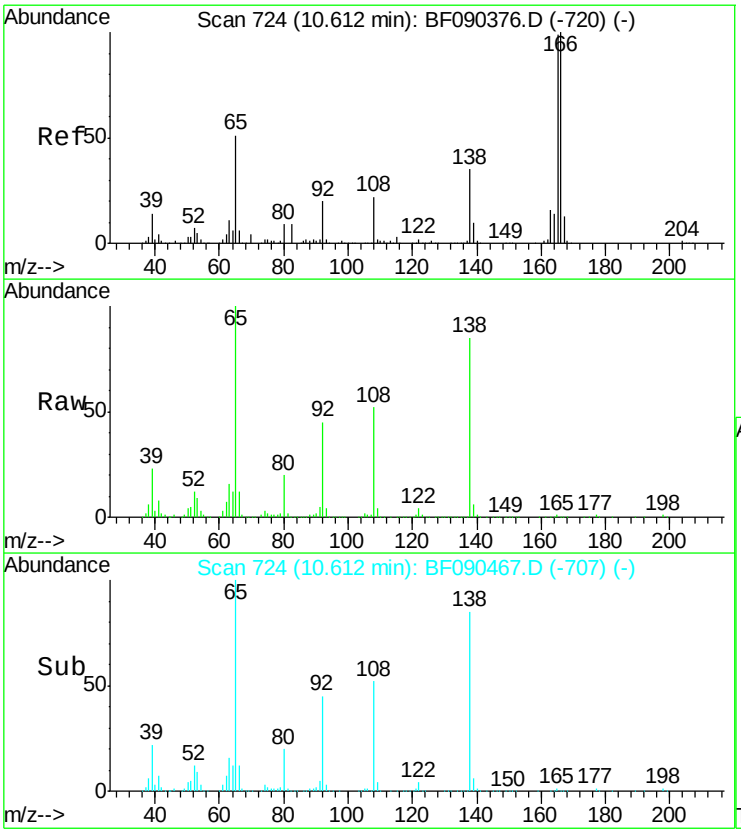
#60
4-Chlorophenyl-phenylether
Concen: 47.04 ng
RT: 10.58 min Scan# 721
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:204 Resp: 692011

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.7	40.1
141	79.5	51.7	77.5#

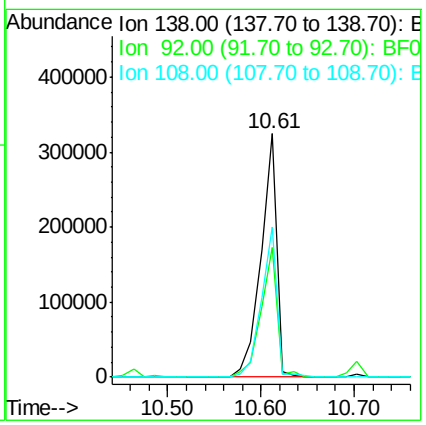


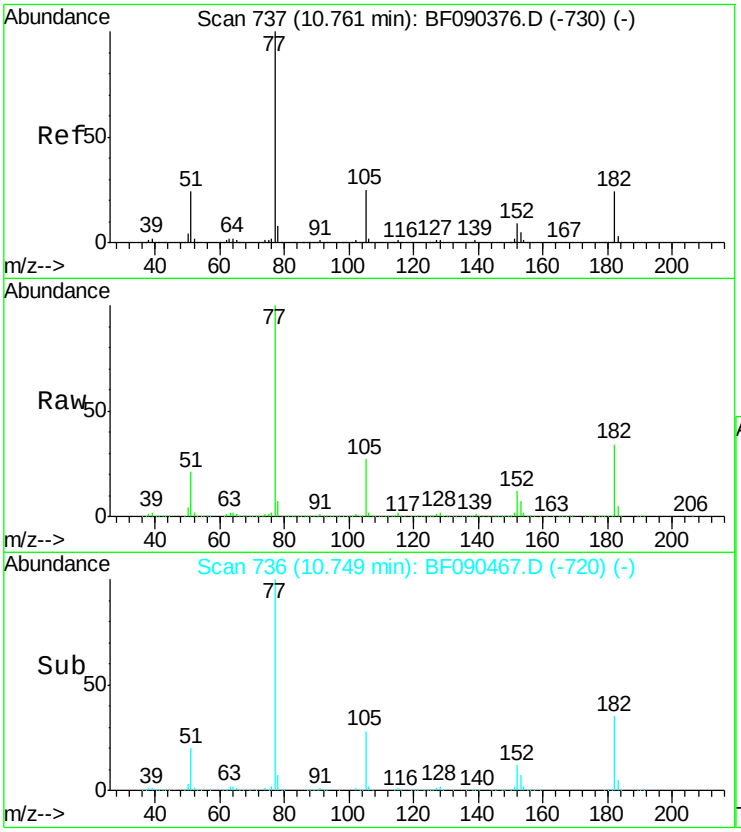


#61
4-Nitroaniline
Concen: 43.85 ng
RT: 10.61 min Scan# 724
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:138 Resp: 387583

Ion	Ratio	Lower	Upper
138	100		
92	53.3	33.2	73.2
108	61.7	48.5	88.5



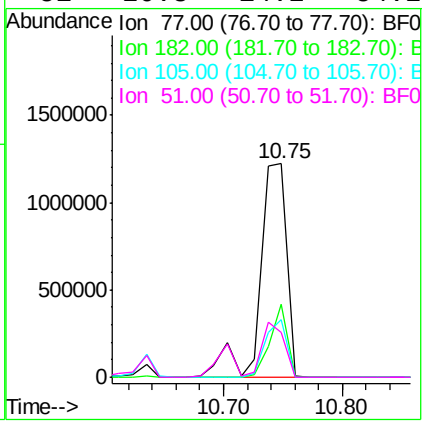


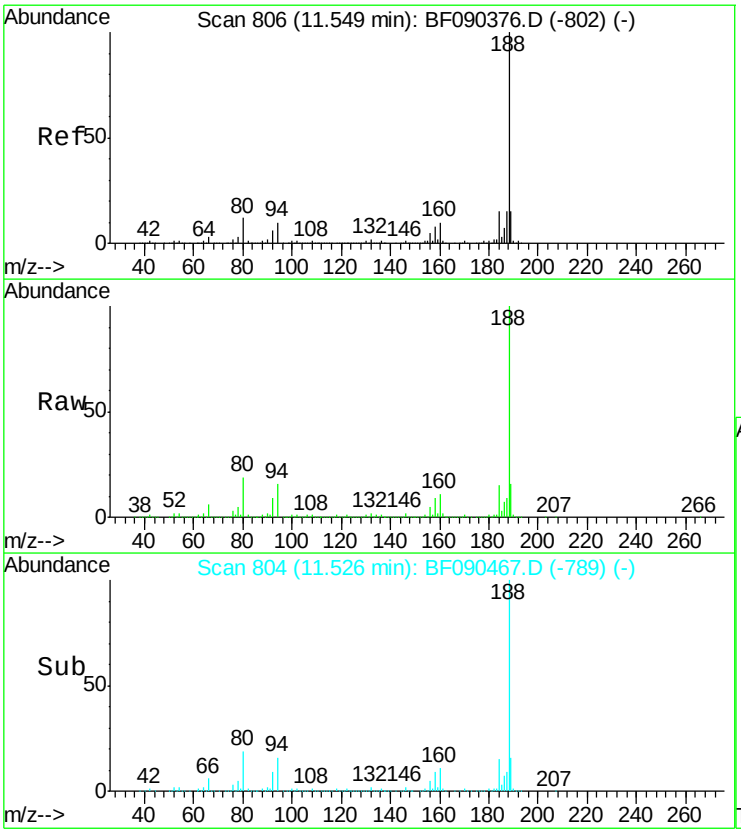
#62
Azobenzene
Concen: 47.70 ng
RT: 10.75 min Scan# 736
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion: 77 Resp: 1927820

Ion	Ratio	Lower	Upper
77	100		
182	34.4	3.2	43.2
105	27.2	2.9	42.9
51	20.8	14.2	54.2

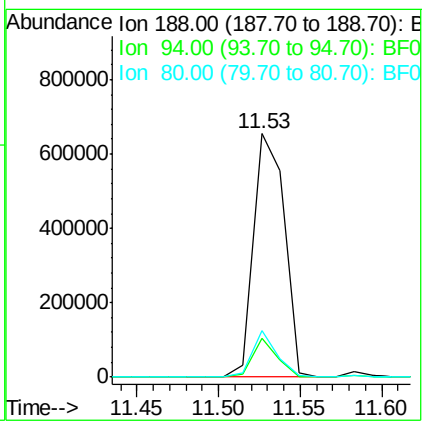


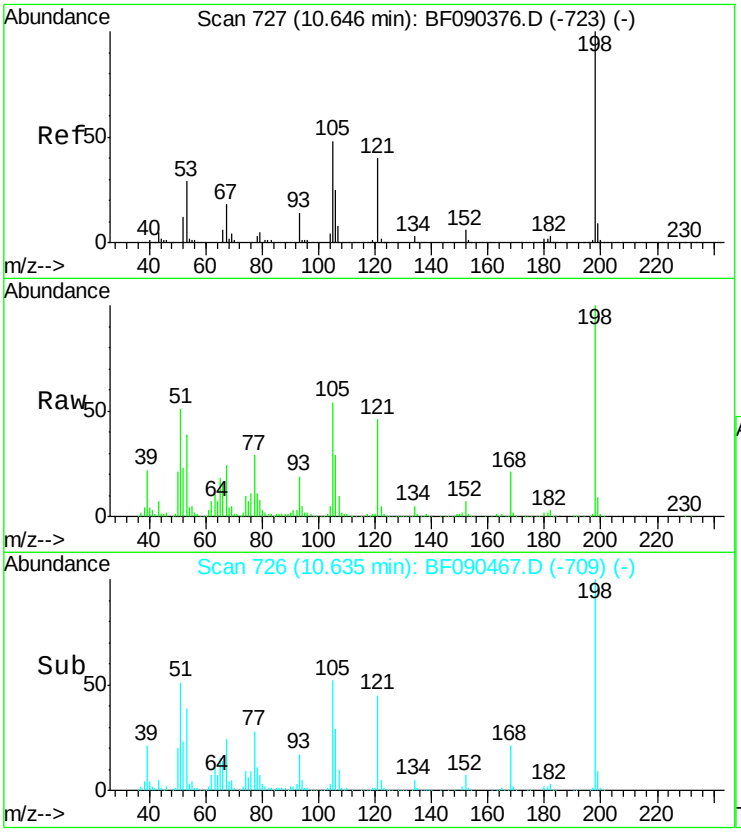


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.53 min Scan# 804
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:188 Resp: 862683

Ion	Ratio	Lower	Upper
188	100		
94	15.8	8.2	12.2#
80	19.0	8.8	13.2#



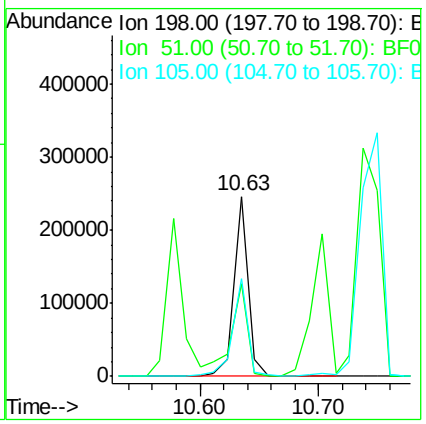


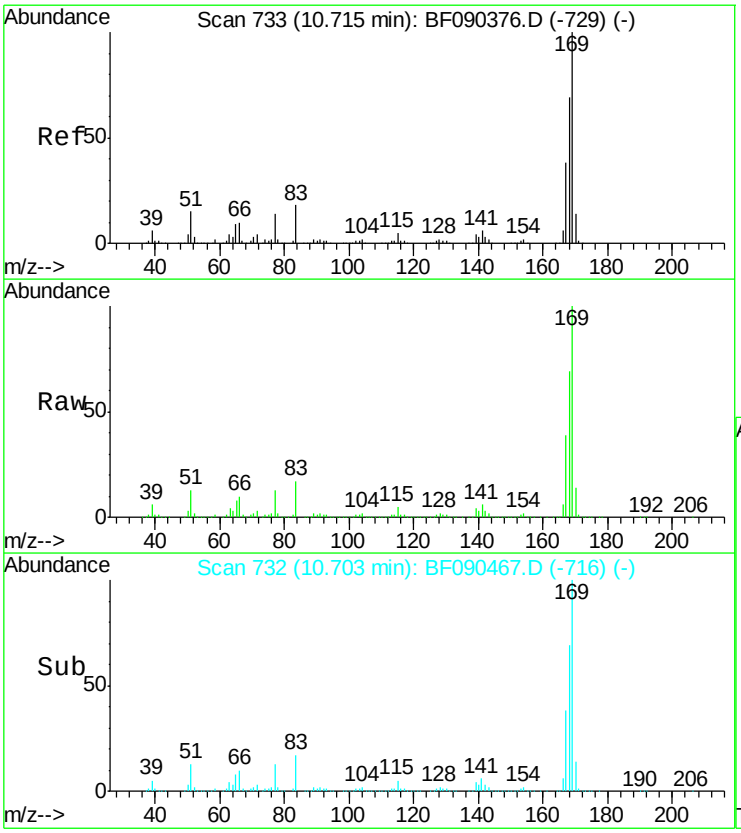
#64
4,6-Dinitro-2-methylphenol
Concen: 36.84 ng
RT: 10.63 min Scan# 726
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:198 Resp: 206245

Ion	Ratio	Lower	Upper
198	100		
51	51.4	67.3	107.3#
105	54.3	42.6	82.6

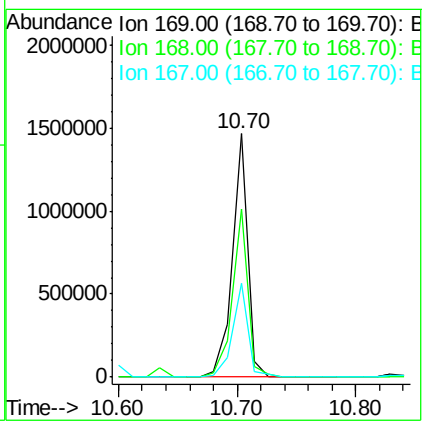


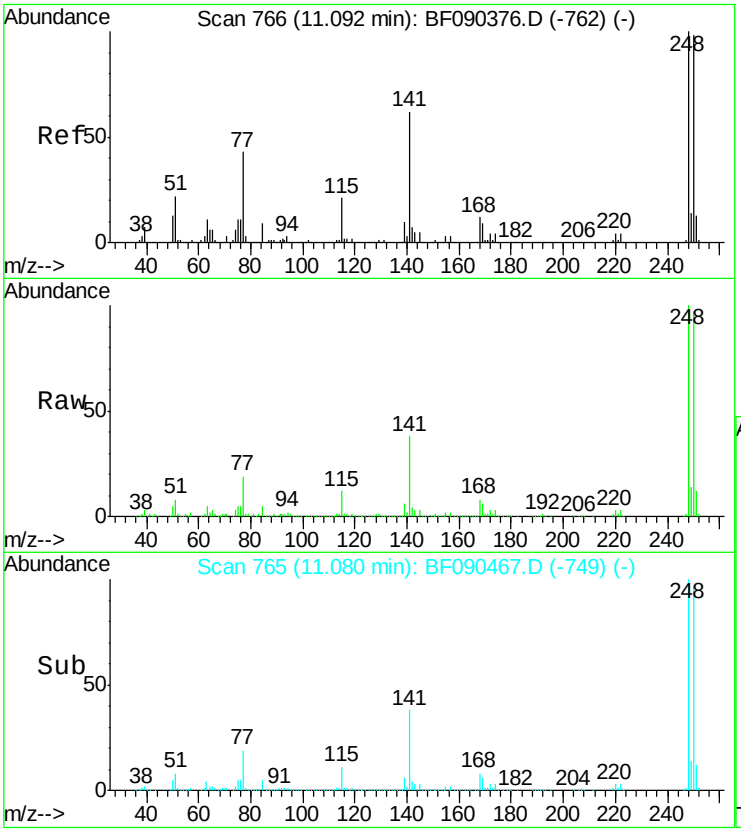


#65
n-Nitrosodiphenylamine
Concen: 45.59 ng
RT: 10.70 min Scan# 732
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:169 Resp: 1318078

Ion	Ratio	Lower	Upper
169	100		
168	68.8	53.8	80.6
167	38.5	29.8	44.8



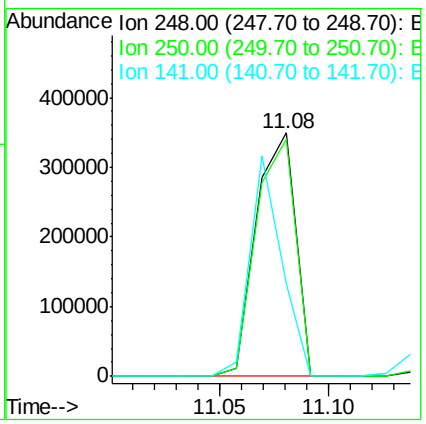


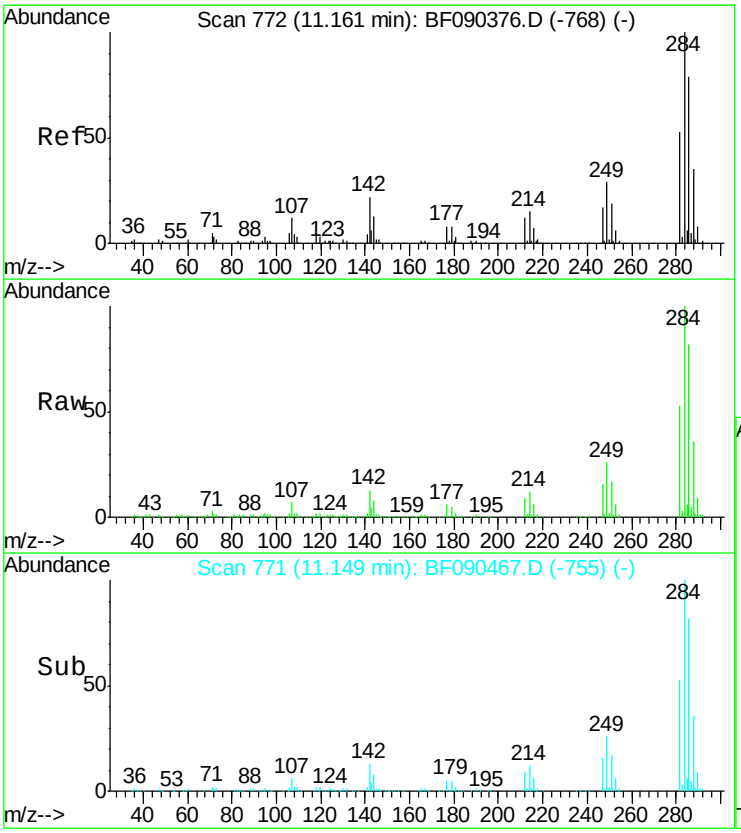
#66
4-Bromophenyl-phenylether
Concen: 52.57 ng
RT: 11.08 min Scan# 765
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:248 Resp: 444551

Ion	Ratio	Lower	Upper
248	100		
250	97.4	76.5	114.7
141	38.2	59.8	89.6#

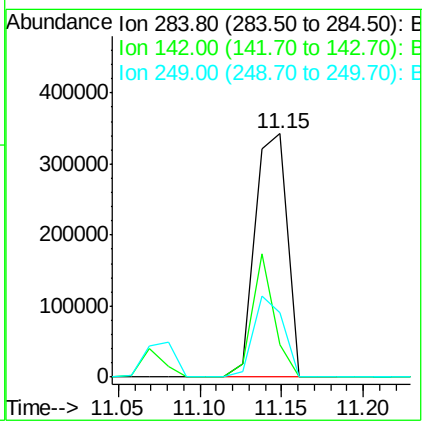


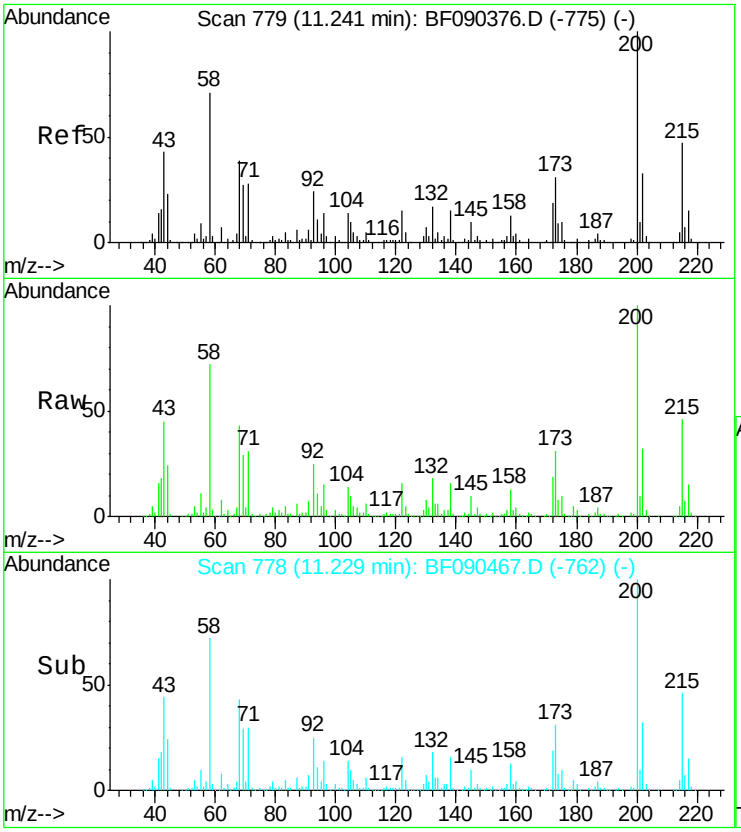


#67
Hexachlorobenzene
Concen: 49.80 ng
RT: 11.15 min Scan# 771
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:284 Resp: 468992

Ion	Ratio	Lower	Upper
284	100		
142	13.2	23.1	34.7#
249	26.3	26.3	39.5#



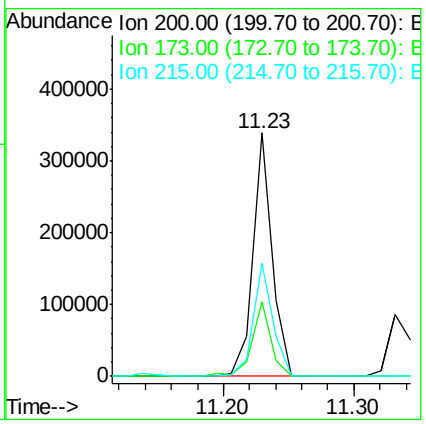


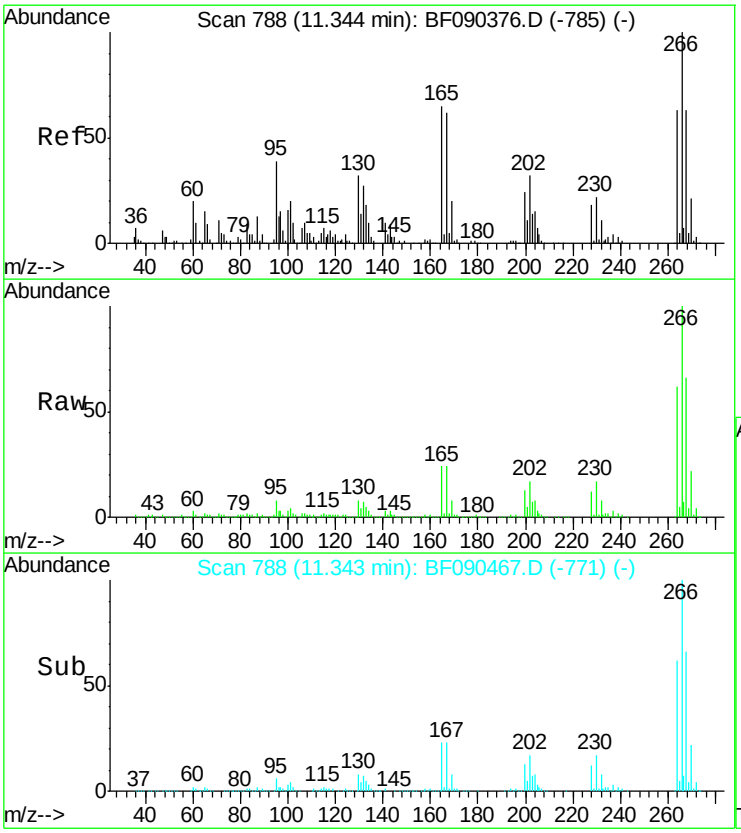
#68
Atrazine
Concen: 48.76 ng
RT: 11.23 min Scan# 778
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:200 Resp: 347590

Ion	Ratio	Lower	Upper
200	100		
173	30.5	9.0	49.0
215	46.2	24.8	64.8

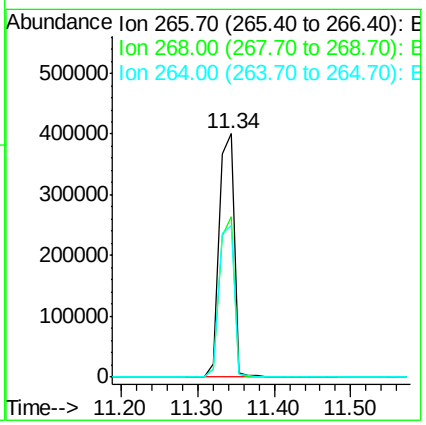


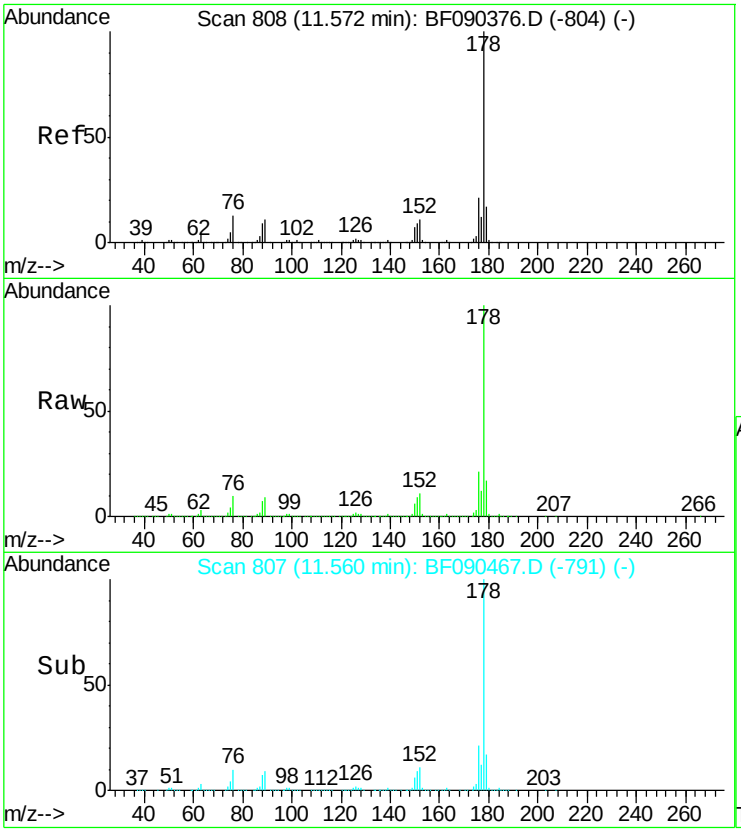


#69
Pentachlorophenol
Concen: 98.97 ng
RT: 11.34 min Scan# 788
Delta R.T. -0.00 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:266 Resp: 554791

Ion	Ratio	Lower	Upper
266	100		
268	65.8	50.9	76.3
264	62.3	51.5	77.3



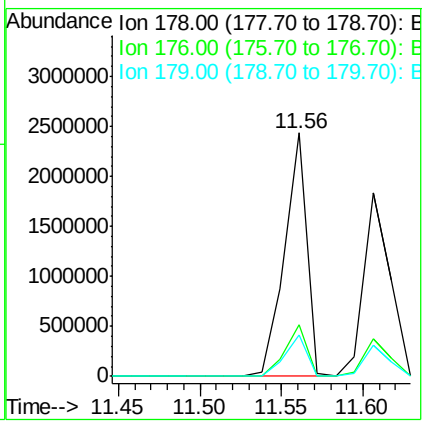


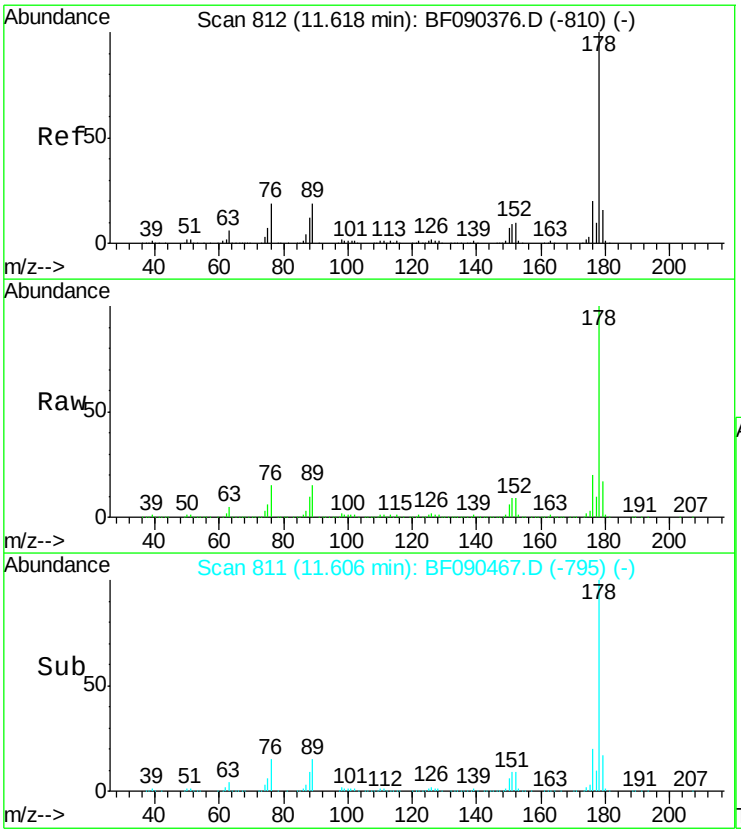
#70
Phenanthrene
Concen: 52.46 ng
RT: 11.56 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:178 Resp: 2317426

Ion	Ratio	Lower	Upper
178	100		
176	21.4	17.3	25.9
179	16.7	13.8	20.6

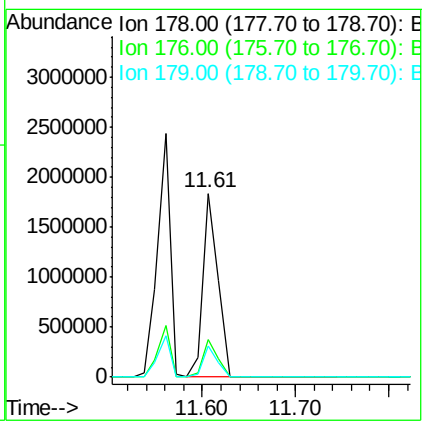


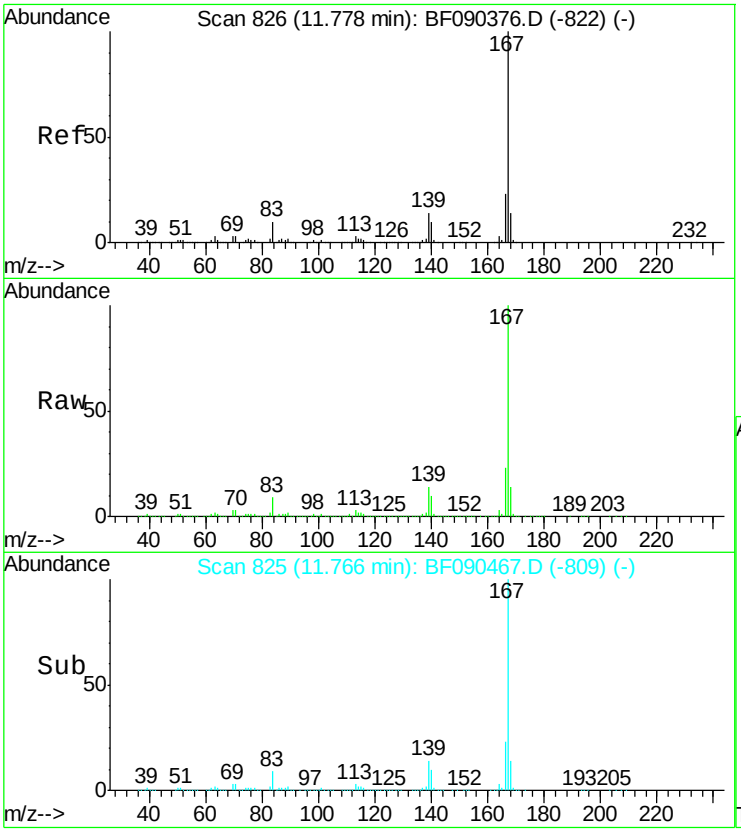


#71
Anthracene
Concen: 45.82 ng
RT: 11.61 min Scan# 811
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:178 Resp: 2066946

Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.8	25.2
179	16.7	13.4	20.2



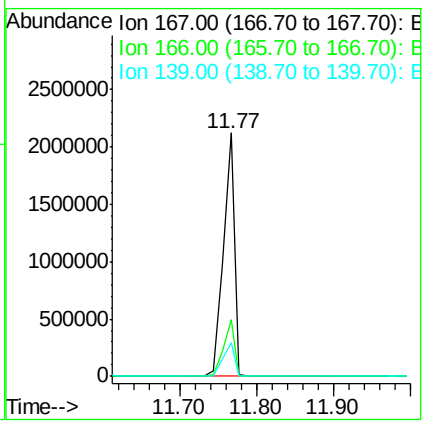


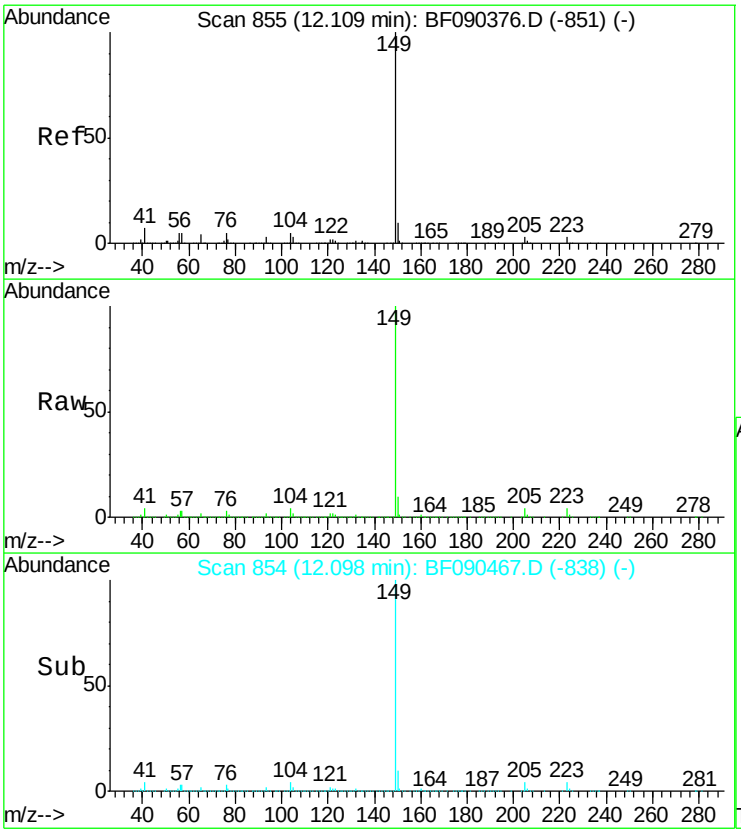
#72
Carbazole
Concen: 51.84 ng
RT: 11.77 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:167 Resp: 2172779

Ion	Ratio	Lower	Upper
167	100		
166	23.2	19.1	28.7
139	14.0	12.1	18.1

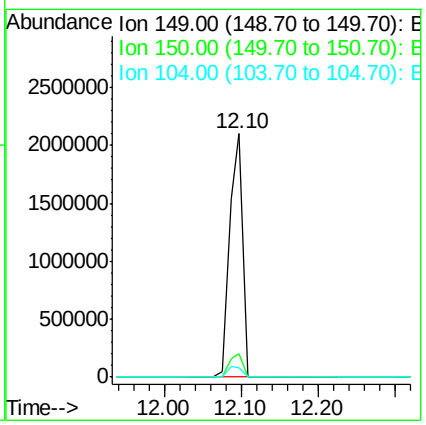


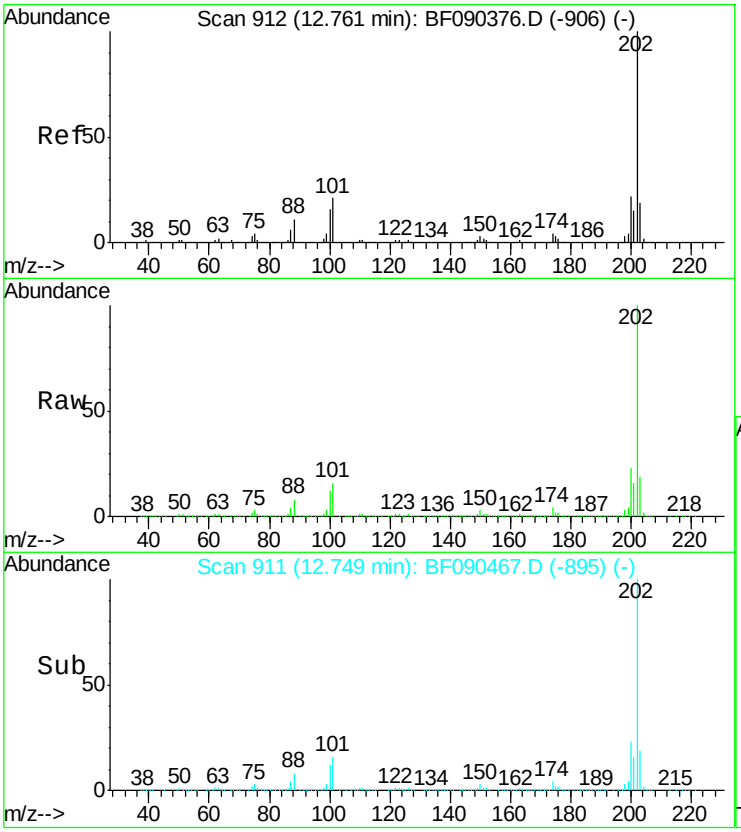


#73
Di-n-butylphthalate
Concen: 49.75 ng
RT: 12.10 min Scan# 854
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:149 Resp: 2537642

Ion	Ratio	Lower	Upper
149	100		
150	9.8	8.6	12.8
104	4.0	4.7	7.1#



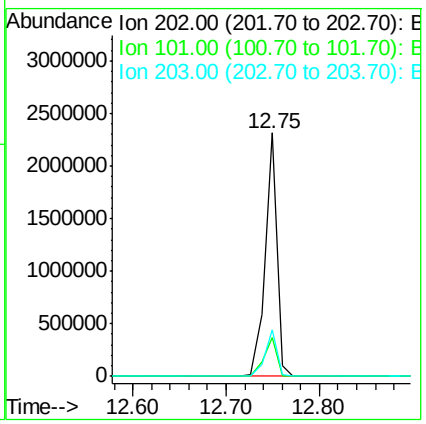


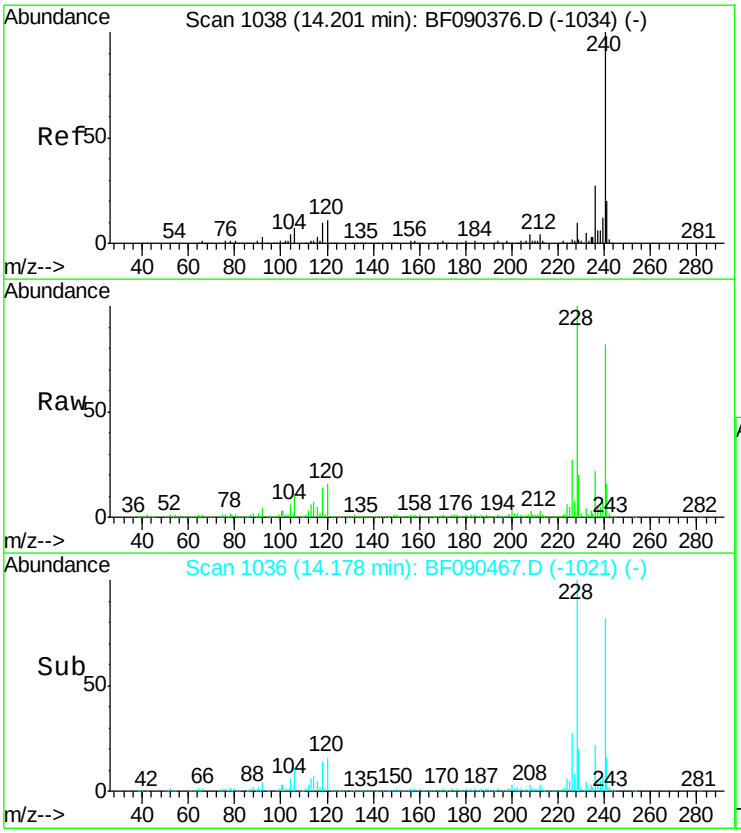
#74
Fluoranthene
Concen: 47.98 ng
RT: 12.75 min Scan# 911
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:202 Resp: 2078774

Ion	Ratio	Lower	Upper
202	100		
101	16.0	0.0	37.2
203	19.1	0.0	39.3

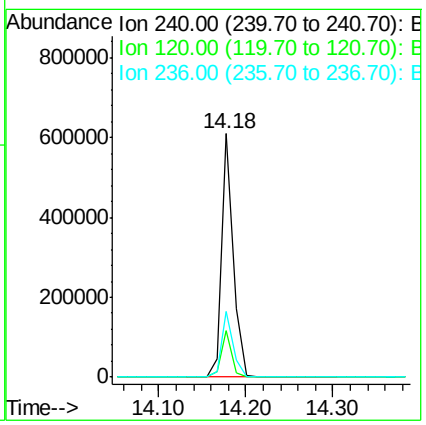


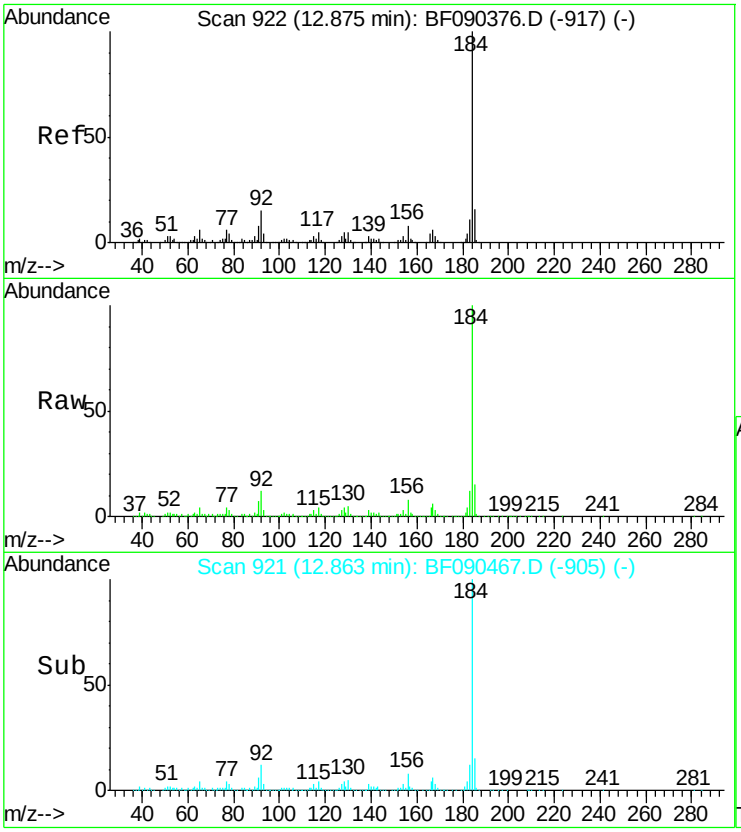


#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.18 min Scan# 1036
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:240 Resp: 576429

Ion	Ratio	Lower	Upper
240	100		
120	19.1	8.6	13.0#
236	27.1	21.6	32.4



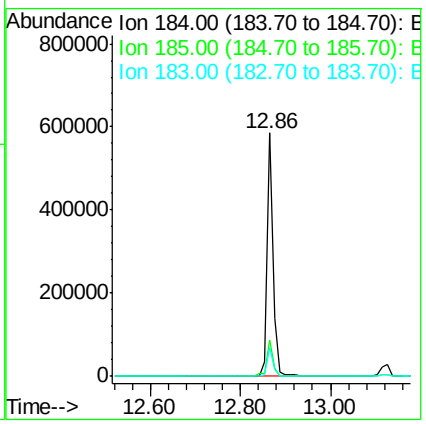


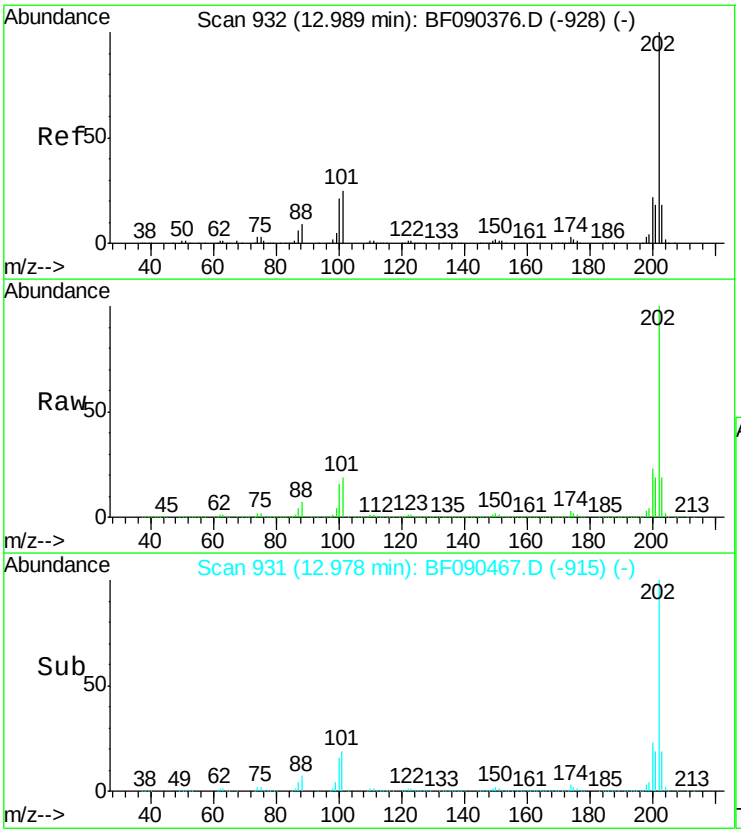
#76
Benzidine
Concen: 36.33 ng
RT: 12.86 min Scan# 921
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:184 Resp: 550589

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.8	17.8
183	11.8	9.6	14.4

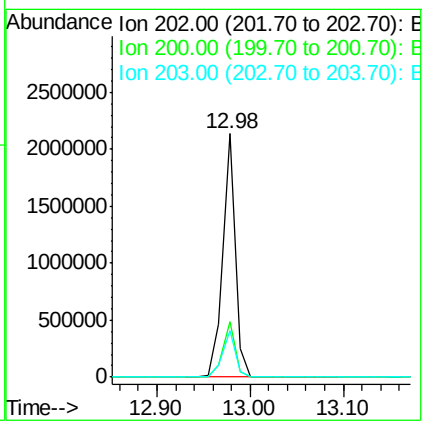


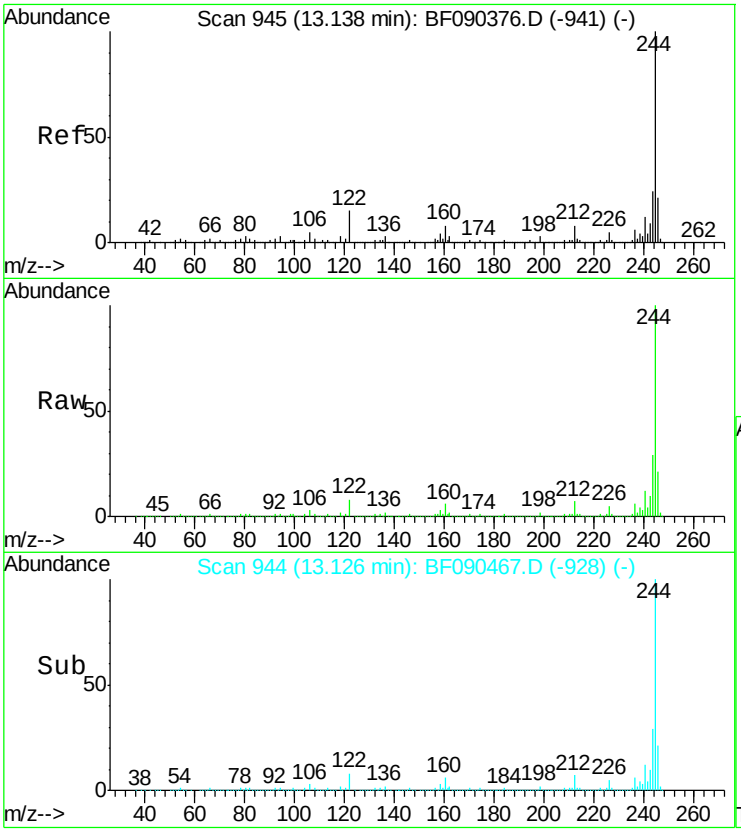


#77
Pyrene
Concen: 51.33 ng
RT: 12.98 min Scan# 931
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:202 Resp: 1972934

Ion	Ratio	Lower	Upper
202	100		
200	22.9	18.5	27.7
203	19.1	15.0	22.6



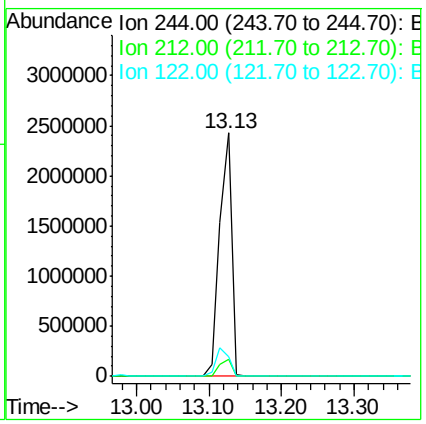


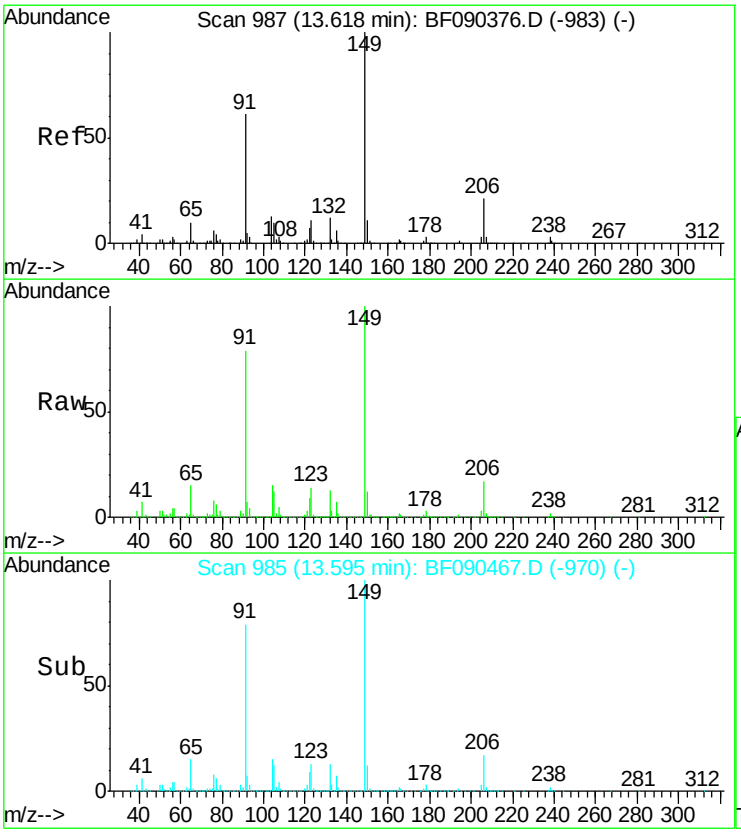
#78
Terphenyl-d14
Concen: 110.22 ng
RT: 13.13 min Scan# 944
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:244 Resp: 2825939

Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.8	10.2
122	8.3	13.3	19.9#

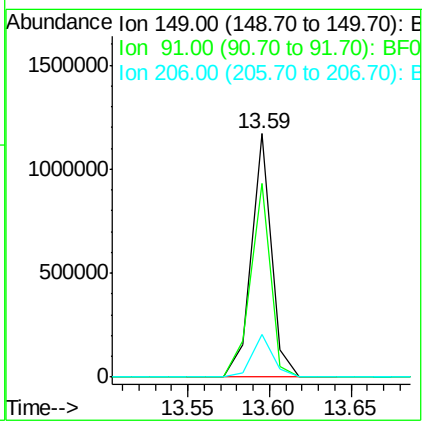


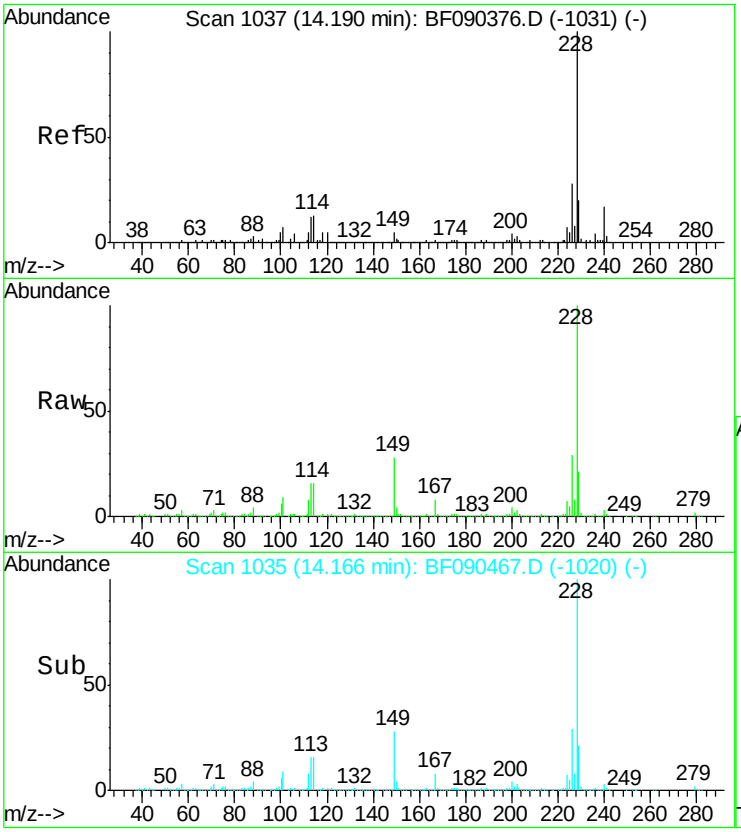


#79
Butylbenzylphthalate
Concen: 50.65 ng
RT: 13.59 min Scan# 985
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:149 Resp: 998981

Ion	Ratio	Lower	Upper
149	100		
91	79.3	51.8	77.8#
206	17.3	18.0	27.0#



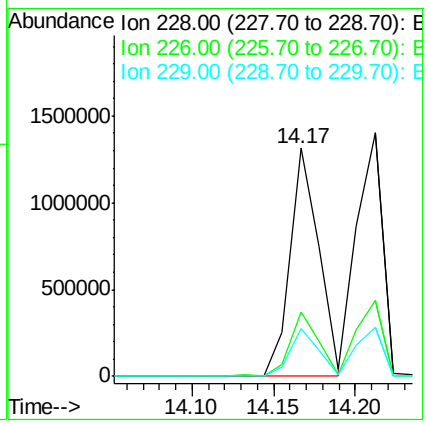


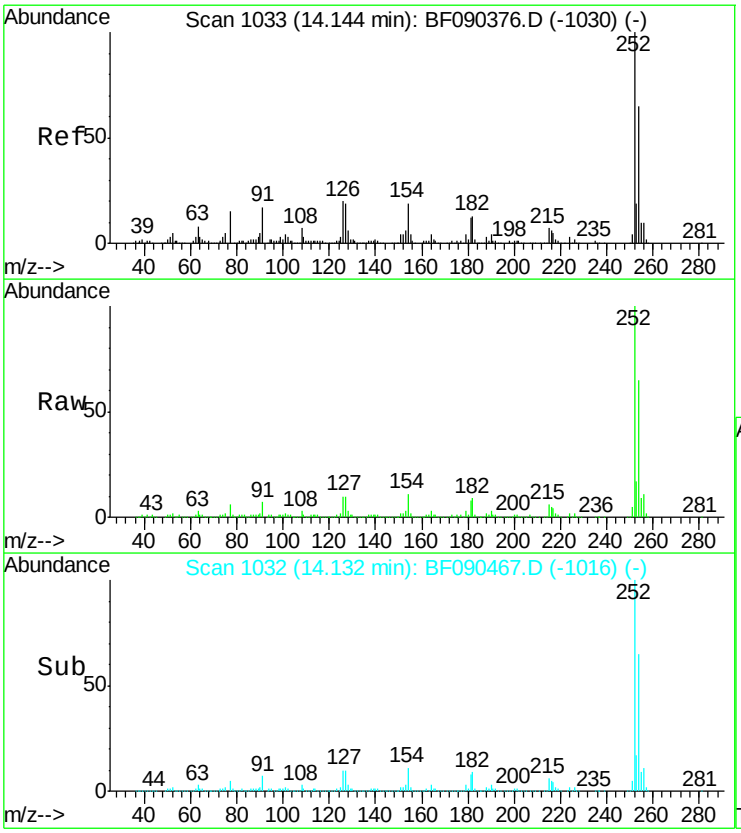
#80
Benzo(a)anthracene
Concen: 49.95 ng
RT: 14.17 min Scan# 1035
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:228 Resp: 1615503

Ion	Ratio	Lower	Upper
228	100		
226	28.5	23.6	35.4
229	21.2	16.6	25.0

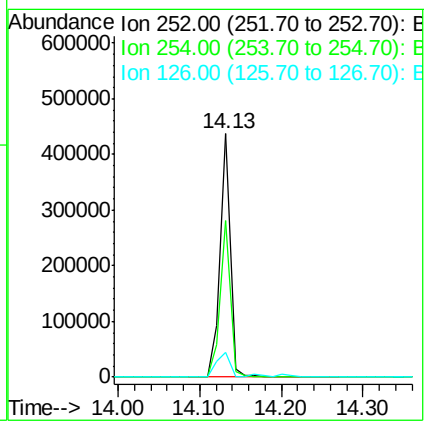


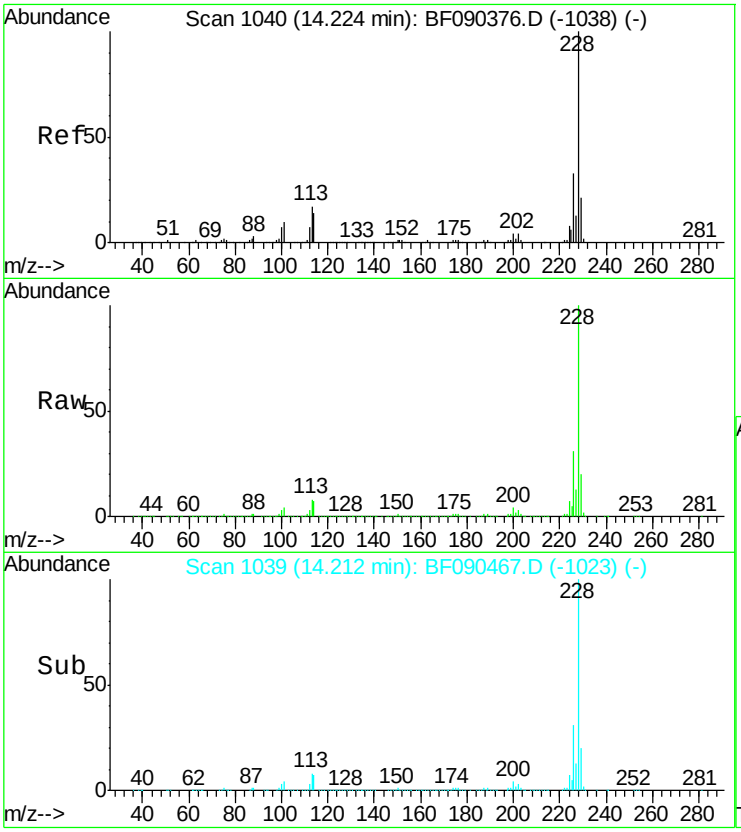


#81
3,3'-Dichlorobenzidine
Concen: 32.50 ng
RT: 14.13 min Scan# 1032
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:252 Resp: 381064

Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.1	78.1
126	10.1	4.2	6.4#



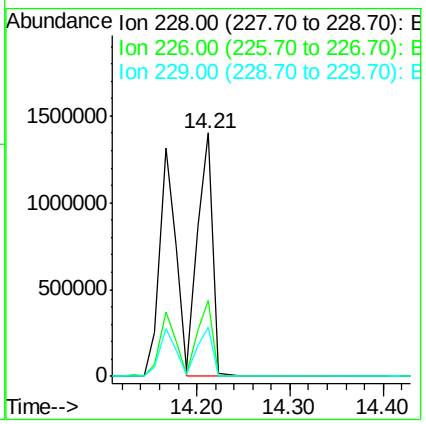


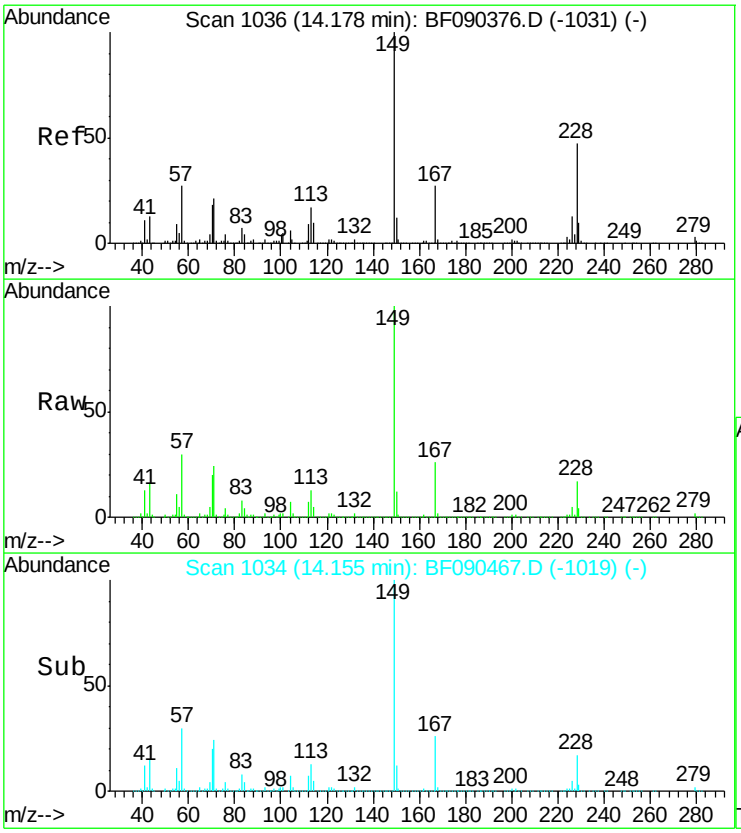
#82
Chrysene
Concen: 53.01 ng
RT: 14.21 min Scan# 1039
Delta R.T. -0.01 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:228 Resp: 1577889

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.8	38.6
229	20.3	16.9	25.3

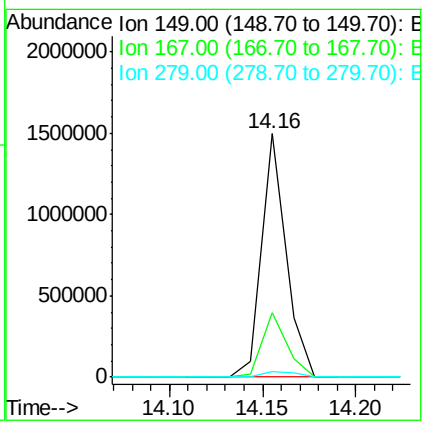


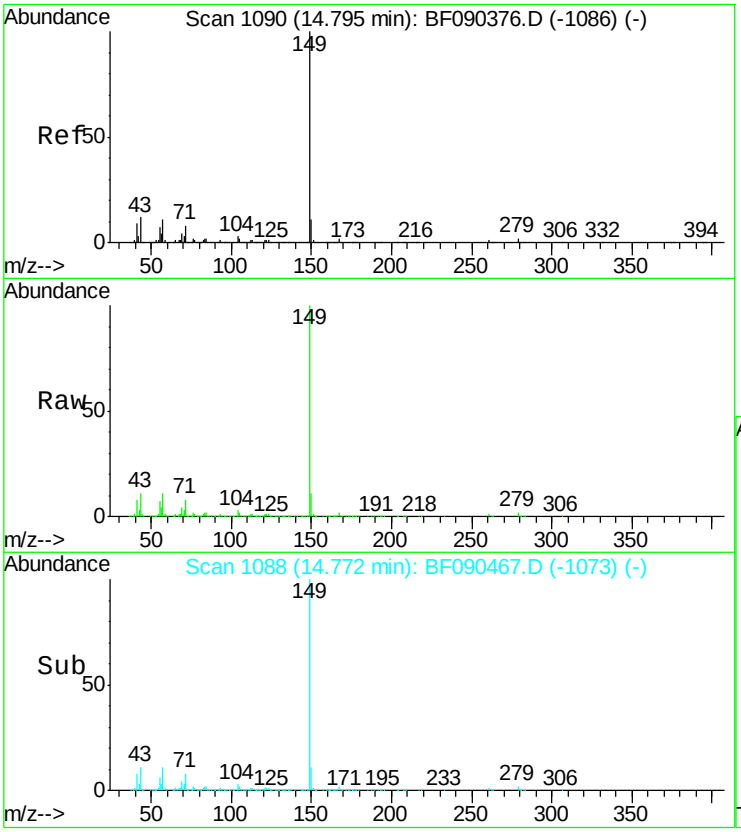


#83
Bis(2-ethylhexyl)phthalate
Concen: 47.99 ng
RT: 14.16 min Scan# 1034
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:149 Resp: 1345174

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.5	32.3
279	2.2	2.6	3.8#



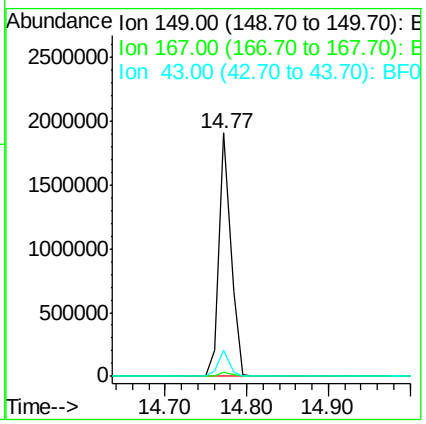


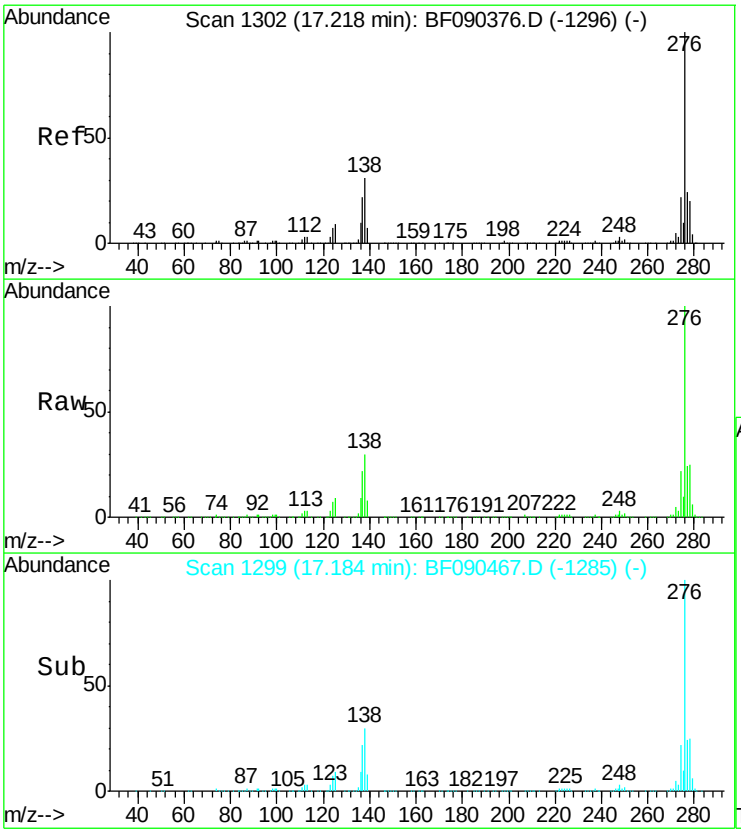
#84
Di-n-octyl phthalate
Concen: 46.17 ng
RT: 14.77 min Scan# 1088
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:149 Resp: 1918782

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.1	11.8	17.8#

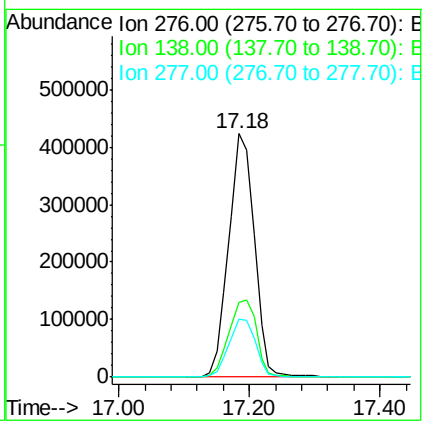


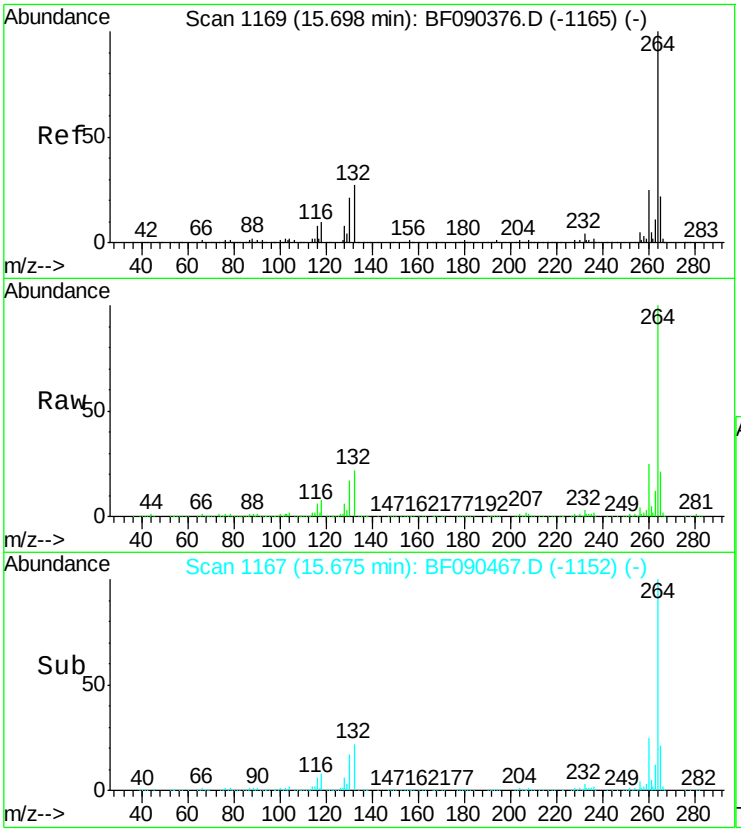


#85
Indeno(1,2,3-cd)pyrene
Concen: 54.36 ng
RT: 17.18 min Scan# 1299
Delta R.T. -0.03 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:276 Resp: 1153579

Ion	Ratio	Lower	Upper
276	100		
138	34.3	23.8	35.8
277	24.9	20.4	30.6



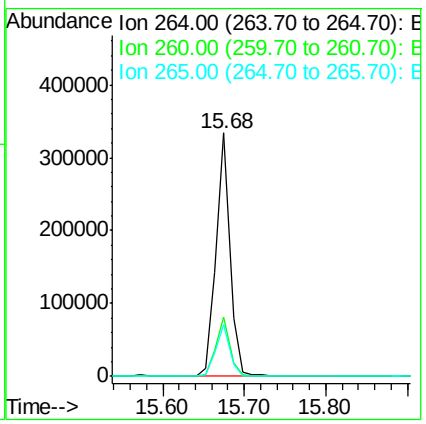


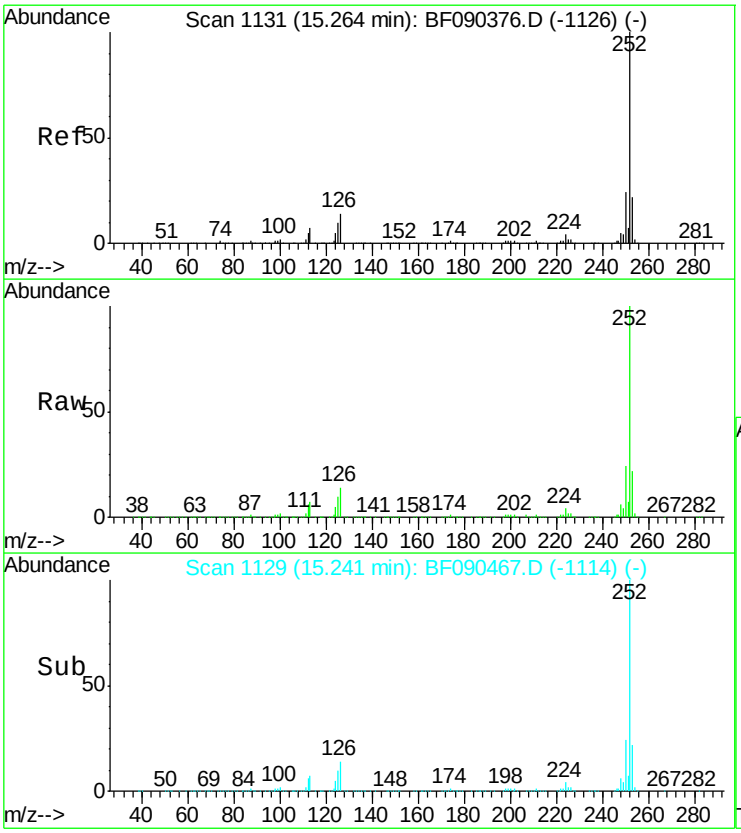
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.68 min Scan# 1167
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:264 Resp: 399264

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.3	28.9
265	21.3	17.4	26.0

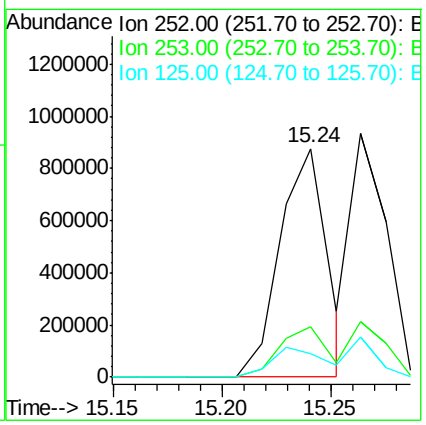


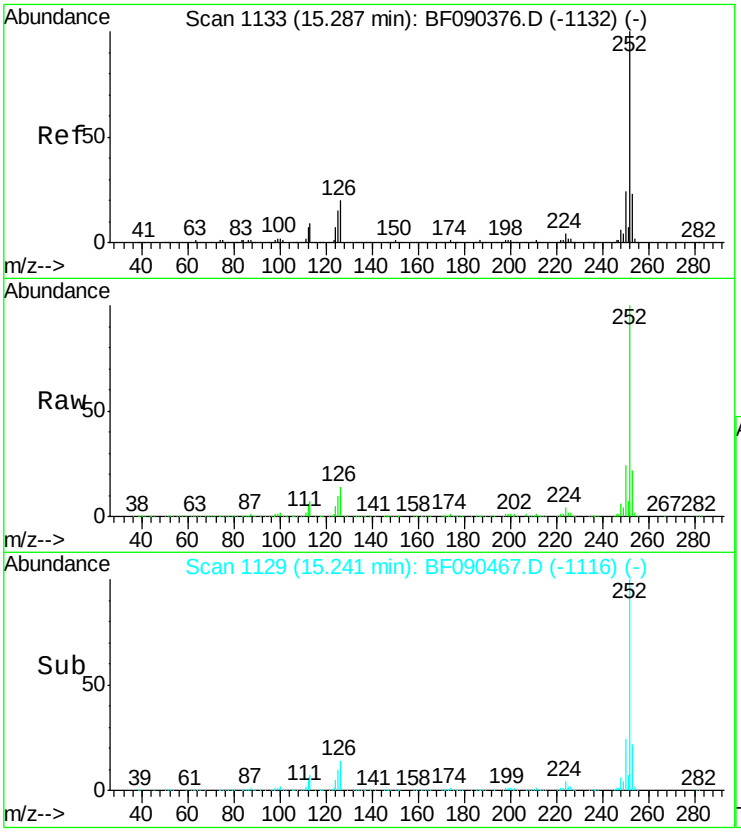


#87
Benzo(b)fluoranthene
Concen: 51.88 ng
RT: 15.24 min Scan# 1129
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:252 Resp: 1319435

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.2
125	10.3	7.0	10.4



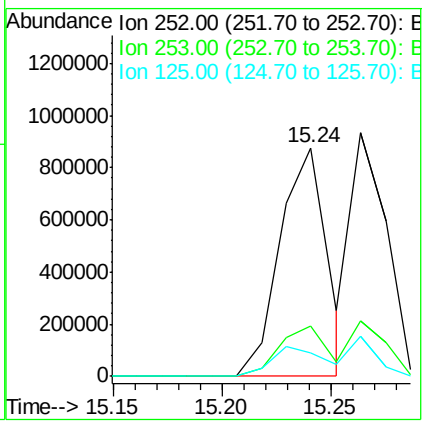


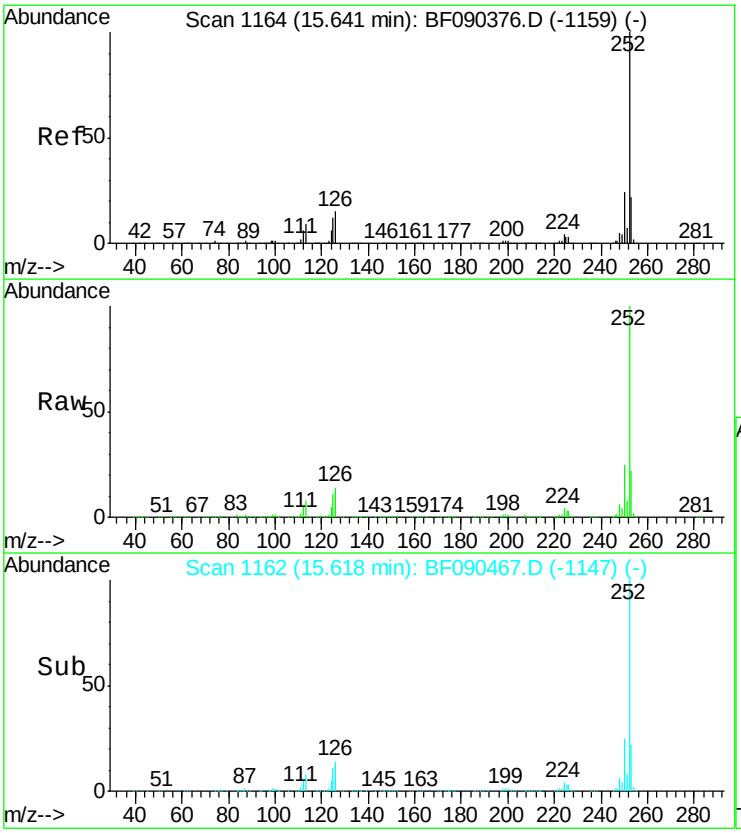
#88
Benzo(k)fluoranthene
Concen: 55.23 ng
RT: 15.24 min Scan# 1129
Delta R.T. -0.05 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

Tgt Ion:252 Resp: 1319435

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.6	27.8
125	10.3	11.7	17.5#

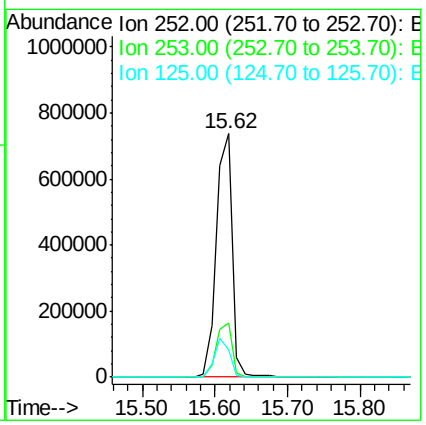


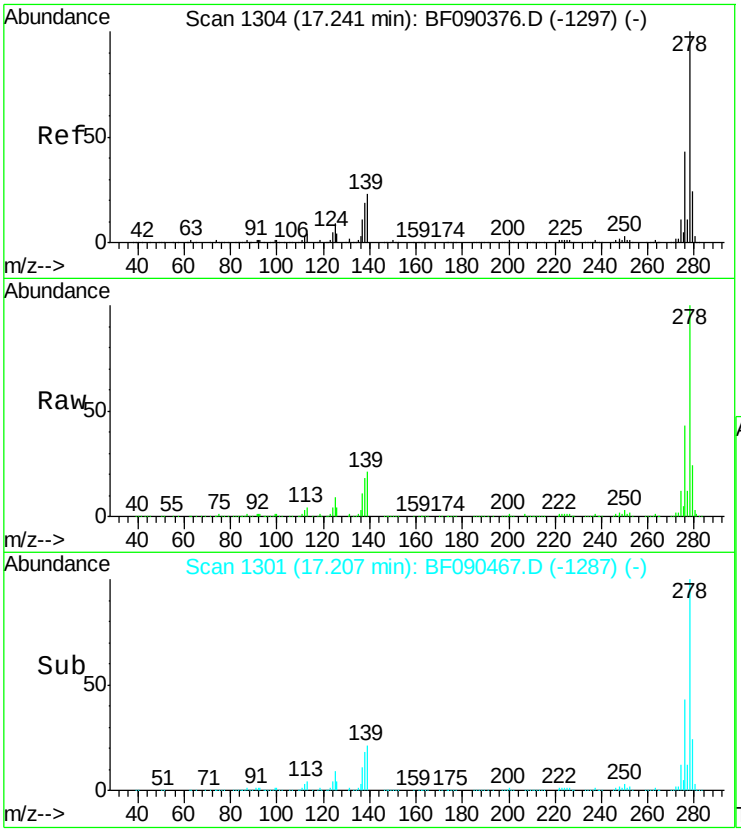


#89
Benzo(a)pyrene
Concen: 51.09 ng
RT: 15.62 min Scan# 1162
Delta R.T. -0.02 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:252 Resp: 1119903

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.4
125	11.1	9.8	14.8



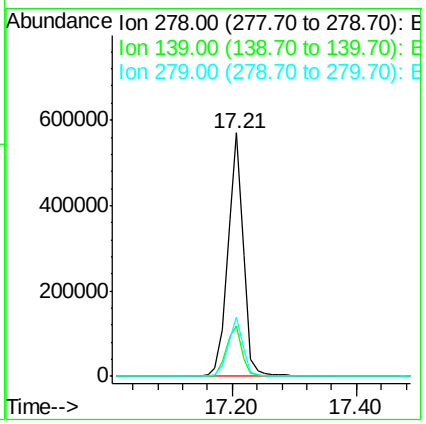


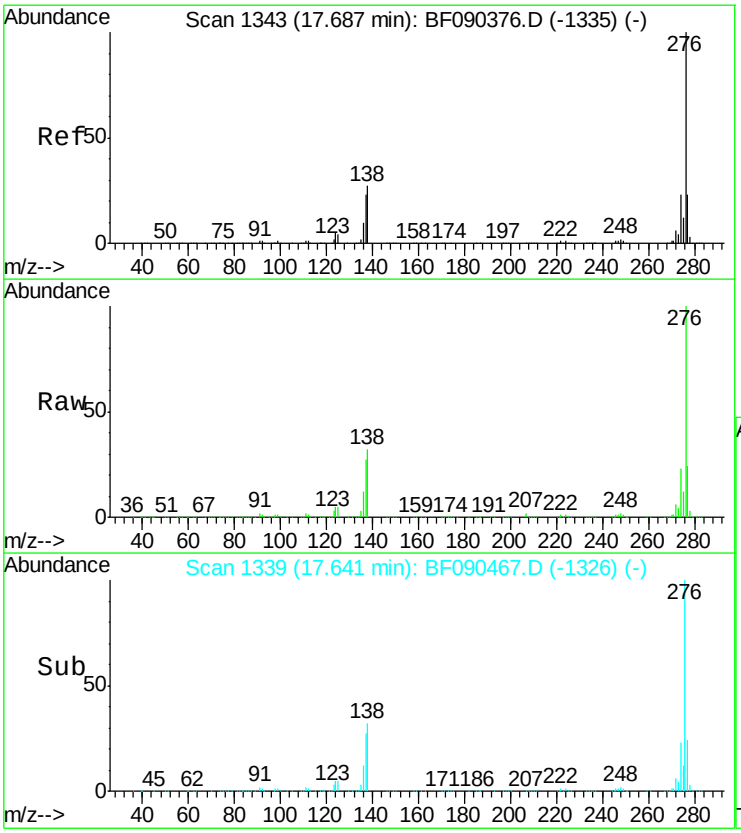
#90
Dibenzo(a,h)anthracene
Concen: 52.83 ng
RT: 17.21 min Scan# 1301
Delta R.T. -0.03 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Instrument :
BNA_F
ClientSampleId :
RAV-GT-104MSD

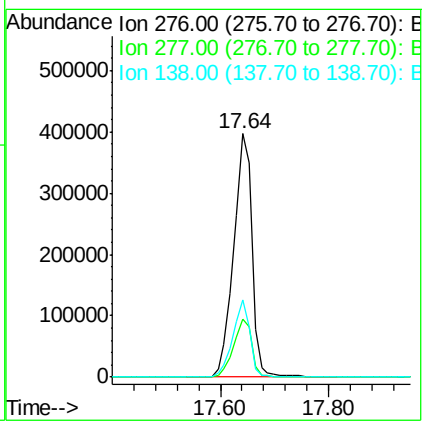
Tgt Ion:278 Resp: 985290

Ion	Ratio	Lower	Upper
278	100		
139	20.8	12.8	19.2#
279	24.4	19.6	29.4





#91
Benzo(g,h,i)perylene
Concen: 51.23 ng
RT: 17.64 min Scan# 1339
Delta R.T. -0.05 min
Lab File: BF090467.D
Acq: 8 Oct 2016 5:04

Tgt Ion:276 Resp: 916785

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.4	29.0
138	31.6	20.8	31.2#