

Data Path : Z:\HPCHEM1\BNA N\Data\BN022718\
 Data File : BN000186.D
 Acq On : 27 Feb 2018 12:08
 Operator : JU/SJ
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 13:14:04 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BN022718.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 11:40:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.461	152	5991	0.40	ng	0.00
7) Naphthalene-d8	11.287	136	22698	0.40	ng	0.00
13) Acenaphthene-d10	15.065	164	11694	0.40	ng	0.00
19) Phenanthrene-d10	17.776	188	23993	0.40	ng	0.00
27) Chrysene-d12	21.896	240	25262	0.40	ng	0.00
34) Perylene-d12	24.367	264	19124	0.40	ng	0.00

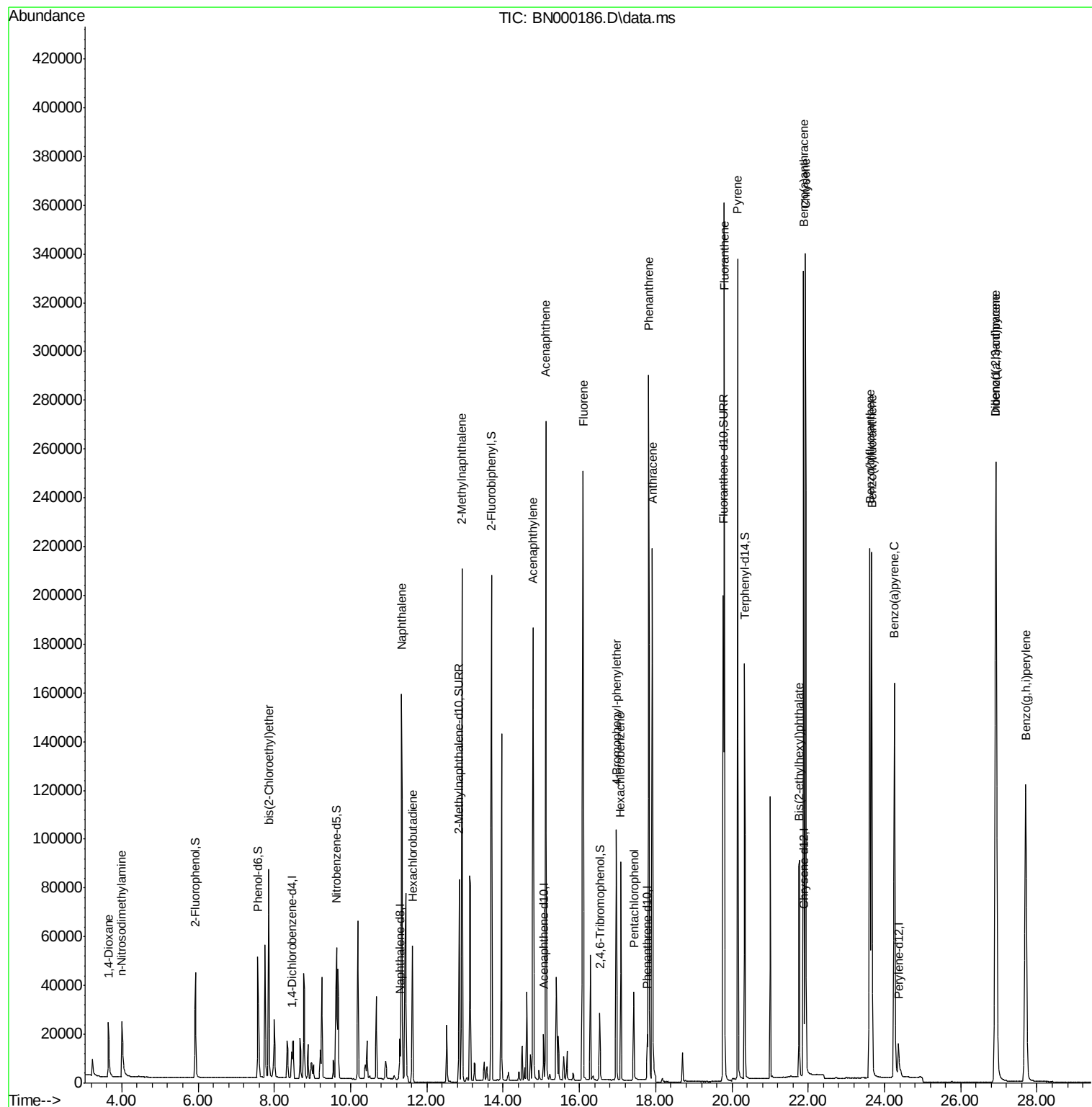
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.929	112	40537	2.56	ng	0.00
5) Phenol-d6	7.580	99	54852	2.50	ng	0.00
8) Nitrobenzene-d5	9.627	82	46227	1.98	ng	0.00
11) 2-Methylnaphthalene-d10	12.849	152	111063	2.93	ng	0.00
14) 2,4,6-Tribromophenol	16.533	330	15326	3.65	ng	0.00
15) 2-Fluorobiphenyl	13.692	172	173528	3.32	ng	0.00
25) Fluoranthene-d10	19.772	212	220205	0.70	ng	0.00
29) Terphenyl-d14	20.335	244	139797	2.78	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.653	88	20758	2.20	ng	# 73
3) n-Nitrosodimethylamine	4.004	42	17182	1.47	ng	# 72
6) bis(2-Chloroethyl)ether	7.853	93	65445	2.91	ng	# 1
9) Naphthalene	11.338	128	209629	0.80	ng	# 74
10) Hexachlorobutadiene	11.622	225	35610	2.33	ng	97
12) 2-Methylnaphthalene	12.920	142	143155	3.17	ng	99
16) Acenaphthylene	14.782	152	206970	3.15	ng	100
17) Acenaphthene	15.126	154	145931	3.54	ng	98
18) Fluorene	16.097	166	180554	3.53	ng	# 80
20) 4-Bromophenyl-phenylether	16.968	248	49068	3.26	ng	# 85
21) Hexachlorobenzene	17.085	284	62471	4.01	ng	# 78
22) Pentachlorophenol	17.426	266	18266	5.07	ng	# 70
23) Phenanthrene	17.819	178	281253	3.75	ng	99
24) Anthracene	17.914	178	235137	3.41	ng	96
26) Fluoranthene	19.802	202	315671	3.42	ng	# 96
28) Pyrene	20.154	202	314400	3.04	ng	100
30) Benzo(a)anthracene	21.875	228	273808	3.32	ng	97
31) Chrysene	21.928	228	290851	3.55	ng	98
32) Bis(2-ethylhexyl)phtha...	21.758	149	97397	0.67	ng	# 49
33) Indeno(1,2,3-cd)pyrene	26.917	276	291639	3.67	ng	# 89
35) Benzo(b)fluoranthene	23.614	252	288003	4.23	ng	# 92
36) Benzo(k)fluoranthene	23.662	252	290077	4.28	ng	# 92
37) Benzo(a)pyrene	24.261	252	250118	4.07	ng	96
38) Dibenzo(a,h)anthracene	26.927	278	236443	4.33	ng	# 91
39) Benzo(g,h,i)perylene	27.701	276	251012	4.29	ng	# 87

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

Data Path : Z:\HPCHEM1\BNA N\Data\BN022718\
Data File : BN000186.D
Acq On : 27 Feb 2018 12:08
Operator : JU/SJ
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 13:14:04 2018
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BN022718.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 27 11:40:45 2018
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 8.461 min Scan# 635

Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

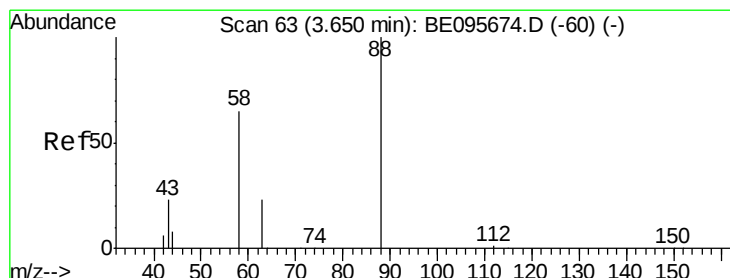
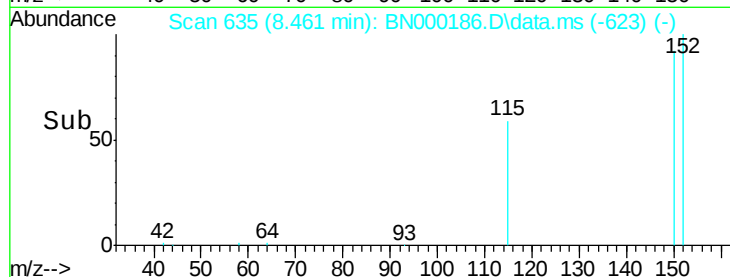
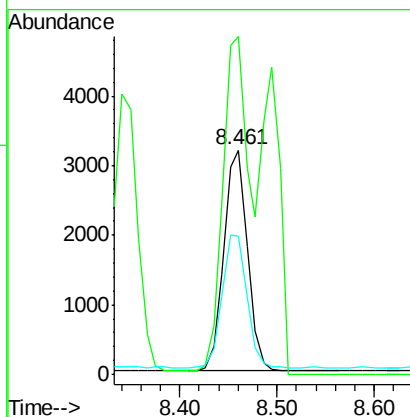
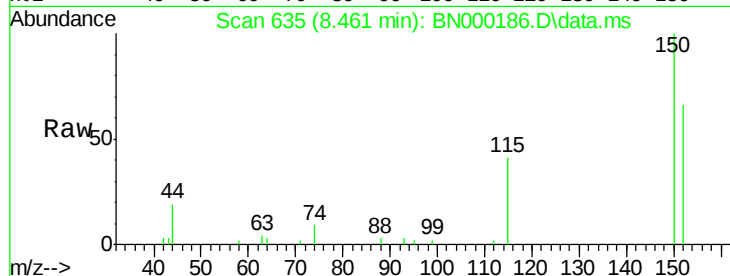
Tot Ion:152 Resp: 5991

Ion Ratio Lower Upper

152 100

150 150.7 117.2 175.8

115 61.7 57.0 85.6



#2

1,4-Dioxane

Concen: 2.20 ng

RT: 3.653 min Scan# 73

Delta R.T. -0.009 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

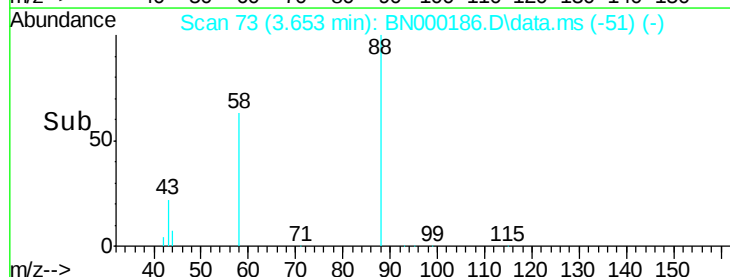
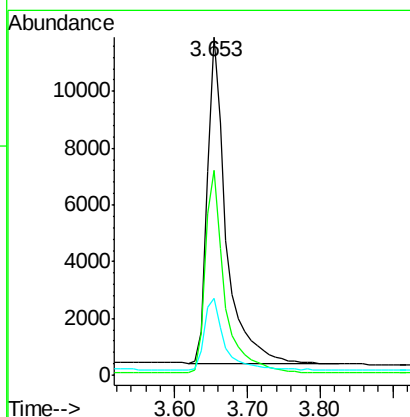
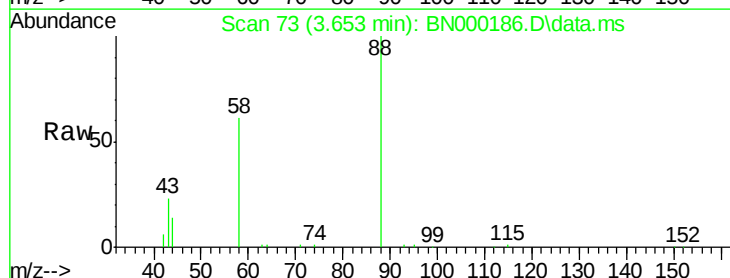
Tgt Ion: 88 Resp: 20758

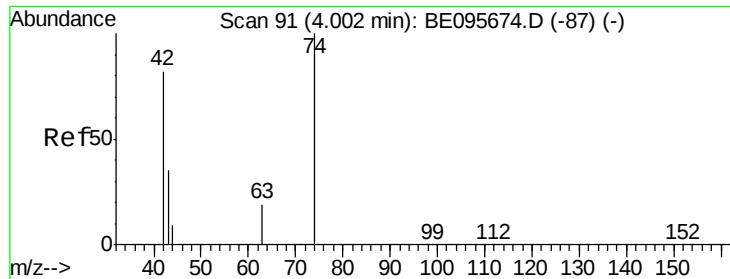
Ion Ratio Lower Upper

88 100

58 63.4 63.2 94.8

43 23.0 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 1.47 ng

RT: 4.004 min Scan# 114

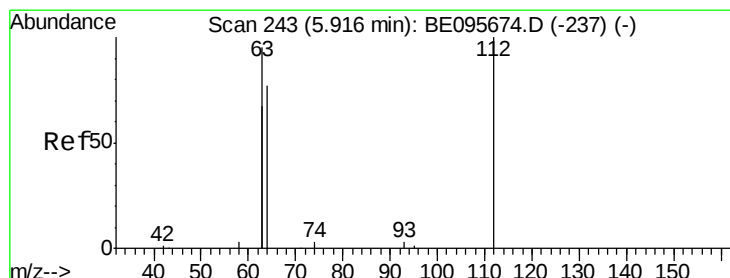
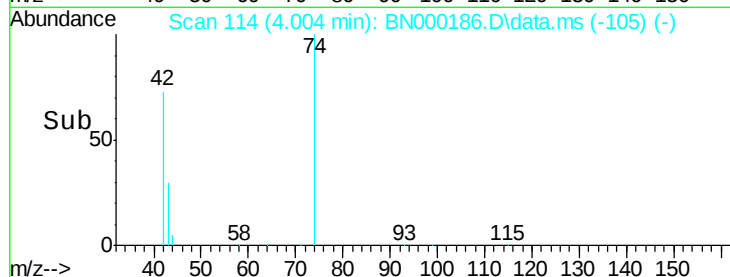
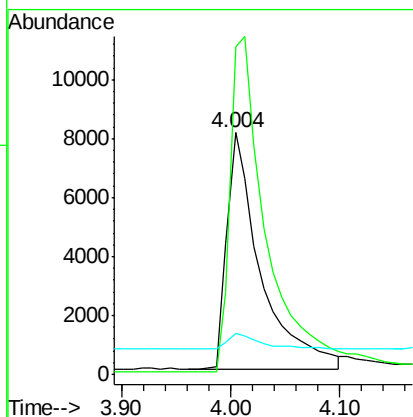
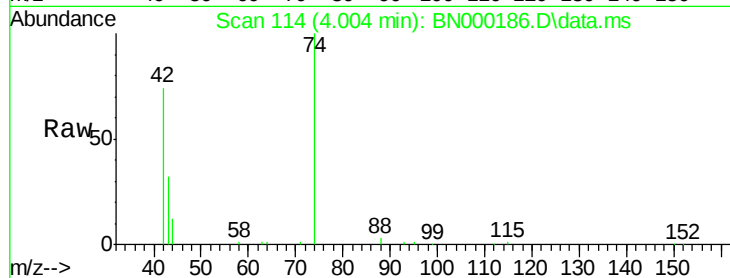
Delta R.T. -0.026 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tot Ion: 42 Resp: 17182

Ion	Ratio	Lower	Upper
42	100		
74	152.0	96.0	144.0#
44	6.6	12.0	18.0#



#4

2-Fluorophenol

Concen: 2.56 ng

RT: 5.929 min Scan# 339

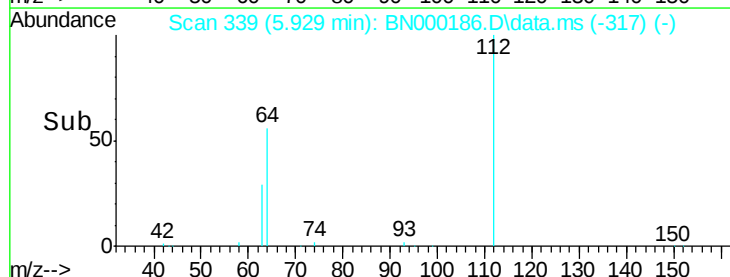
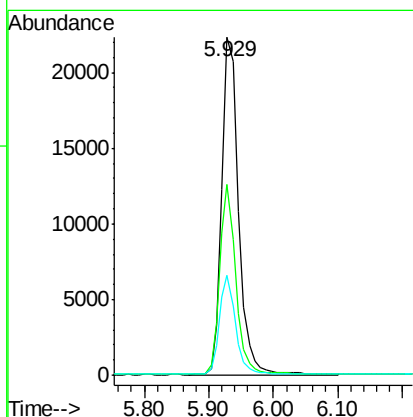
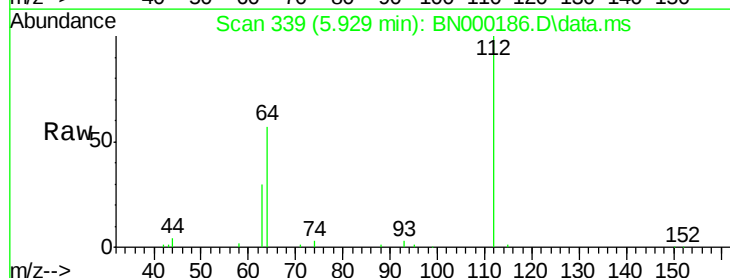
Delta R.T. -0.009 min

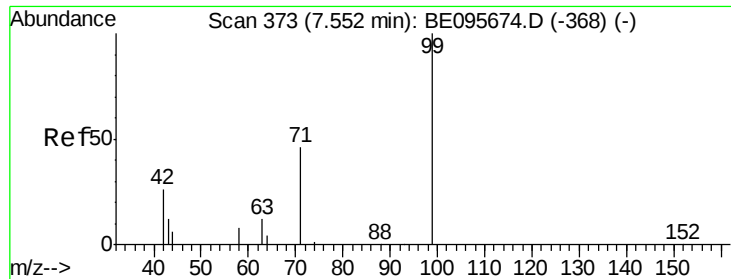
Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tgt Ion: 112 Resp: 40537

Ion	Ratio	Lower	Upper
112	100		
64	54.0	60.1	90.1#
63	28.3	116.8	175.2#





#5

Phenol-d6

Concen: 2.50 ng

RT: 7.580 min Scan# 532

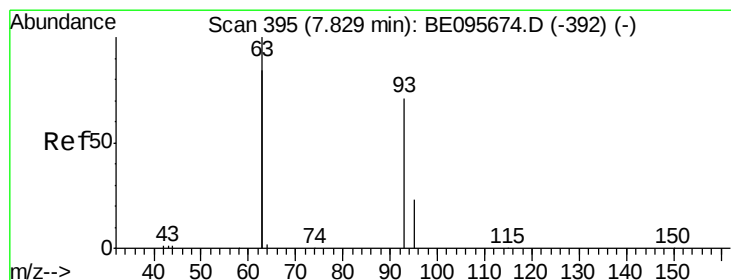
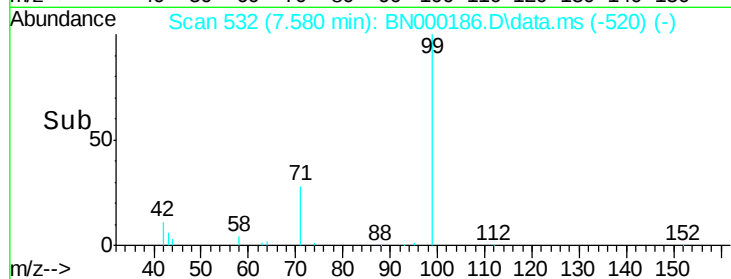
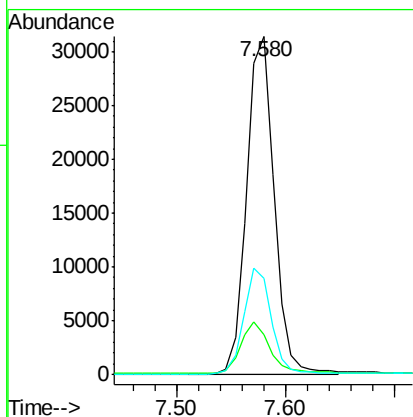
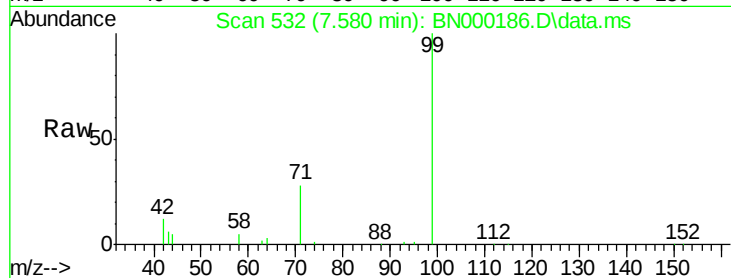
Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tot Ion: 99 Resp: 54852

Ion	Ratio	Lower	Upper
99	100		
42	15.8	20.2	30.2#
71	31.1	28.4	42.6



#6

bis(2-Chloroethyl)ether

Concen: 2.91 ng

RT: 7.853 min Scan# 564

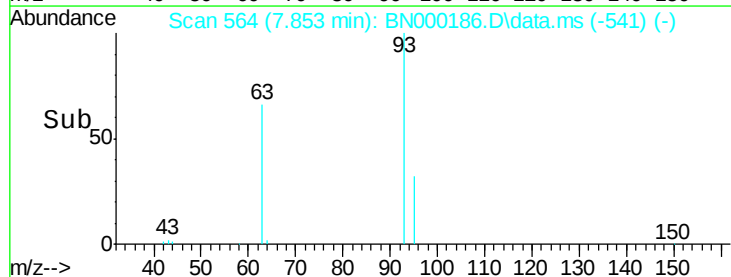
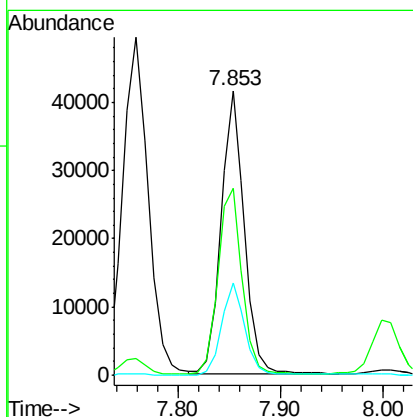
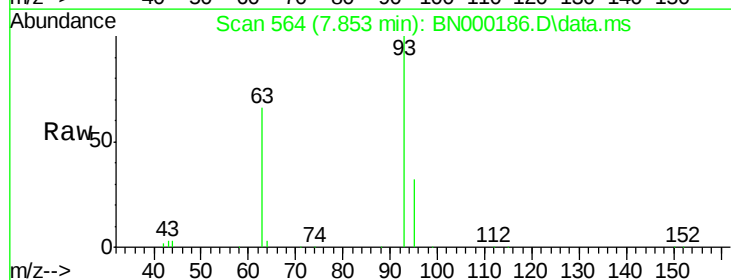
Delta R.T. -0.000 min

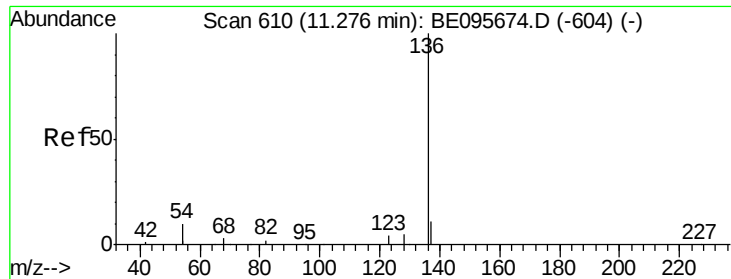
Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tgt Ion: 93 Resp: 65445

Ion	Ratio	Lower	Upper
93	100		
63	68.7	275.3	412.9#
95	32.3	25.2	37.8





#7

Naphthalene-d8

Concen: 0.40 ng

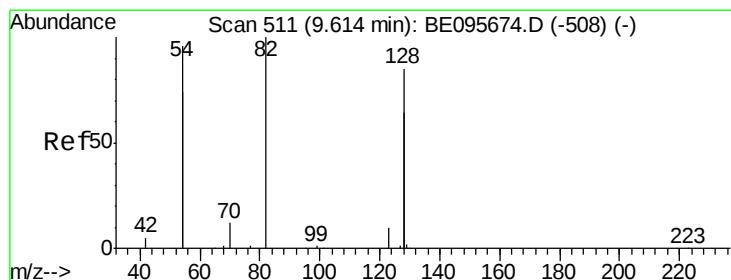
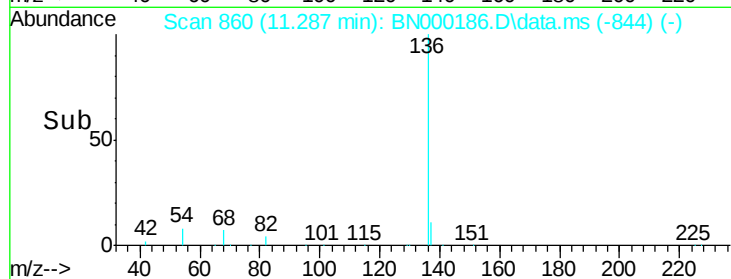
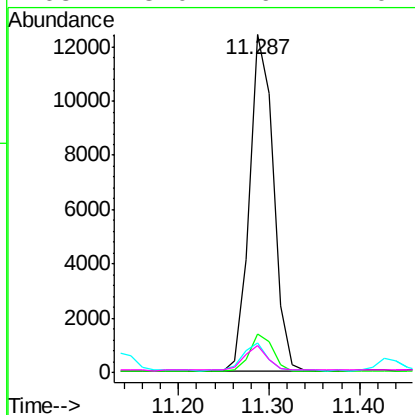
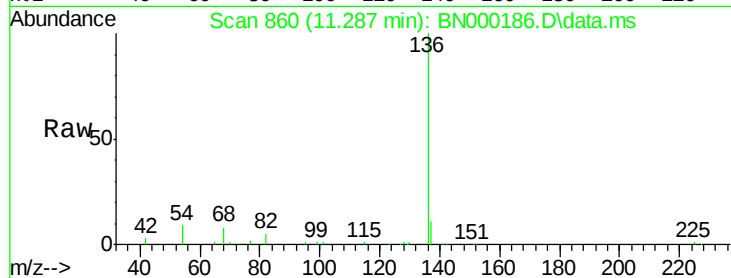
RT: 11.287 min Scan# 860

Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tot Ion:	136	Resp:	22698
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.5	14.3
54	8.7	29.1	43.7#
68	8.0	6.2	9.2



#8

Nitrobenzene-d5

Concen: 1.98 ng

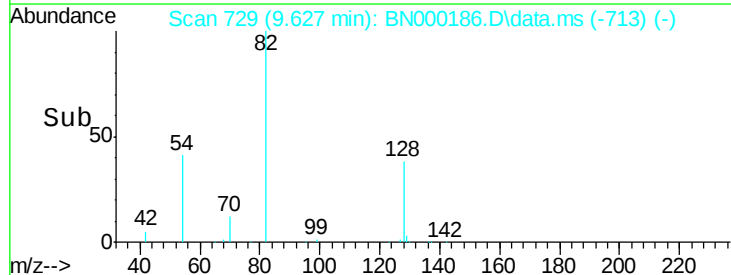
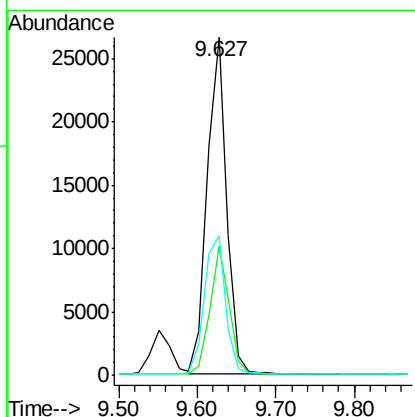
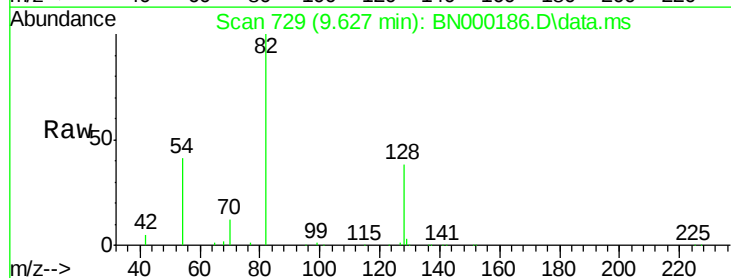
RT: 9.627 min Scan# 729

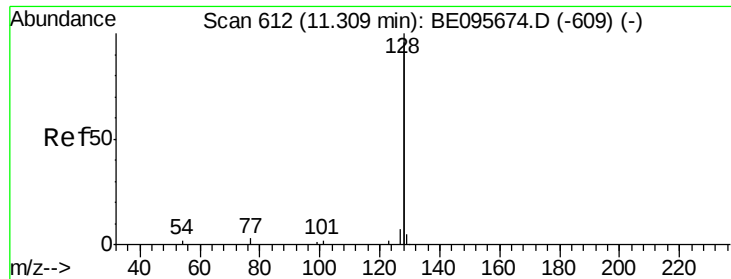
Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tgt Ion:	82	Resp:	46227
Ion	Ratio	Lower	Upper
82	100		
128	38.2	150.0	225.0#
54	41.5	154.2	231.4#





#9

Naphthalene

Concen: 0.80 ng

RT: 11.338 min Scan# 864

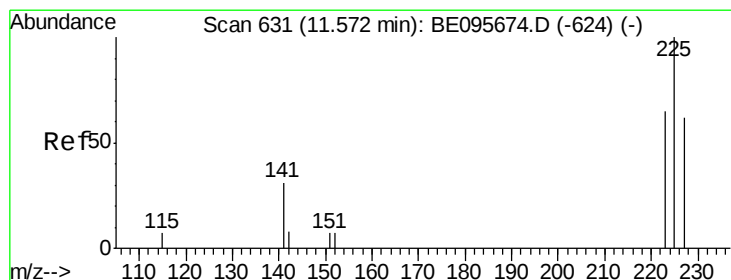
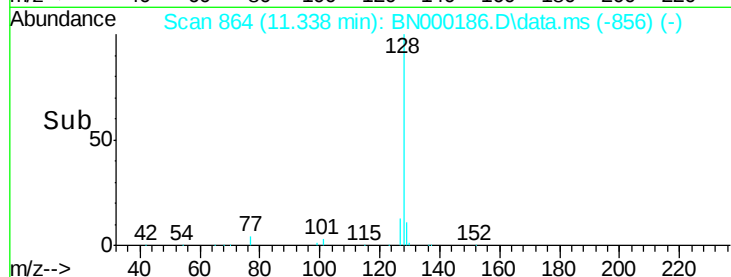
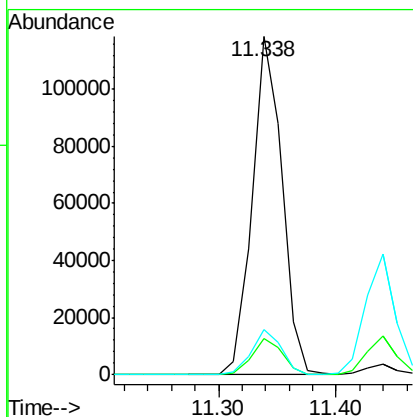
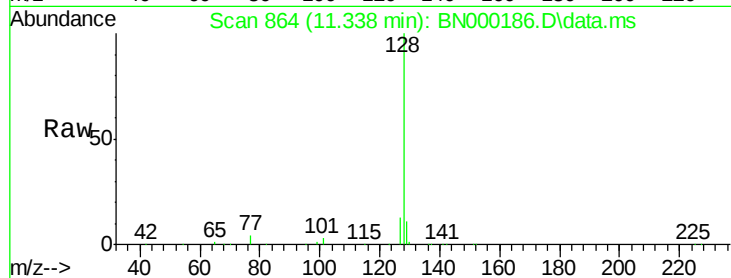
Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tot Ion:128 Resp: 209629

Ion	Ratio	Lower	Upper
128	100		
129	10.8	2.6	3.8#
127	13.2	2.8	4.2#



#10

Hexachlorobutadiene

Concen: 2.33 ng

RT: 11.622 min Scan# 902

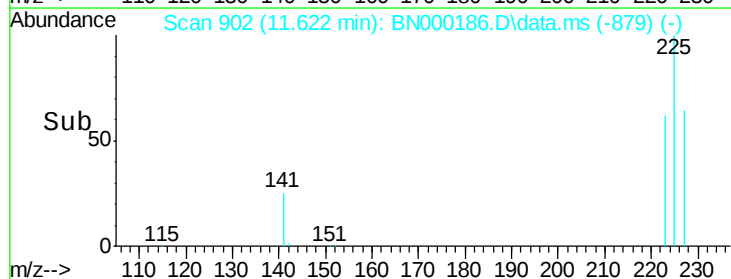
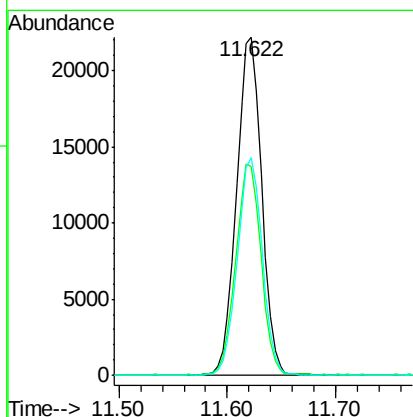
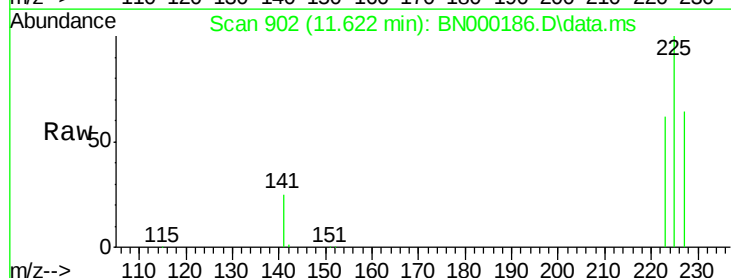
Delta R.T. 0.004 min

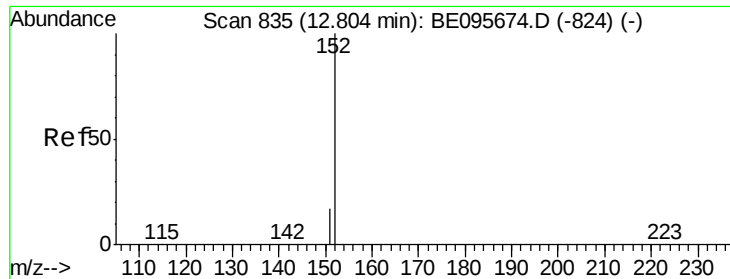
Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tgt Ion:225 Resp: 35610

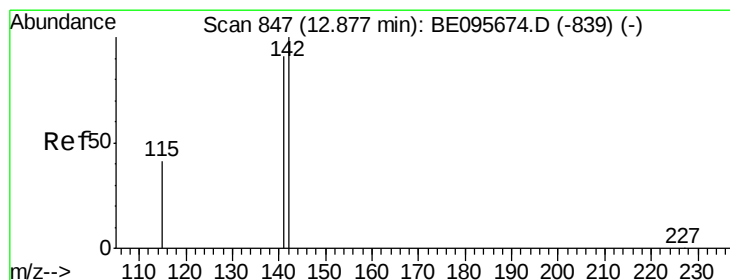
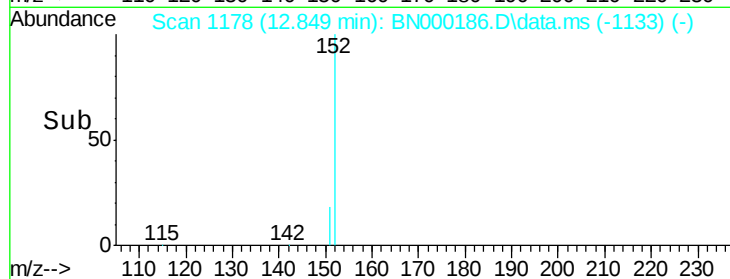
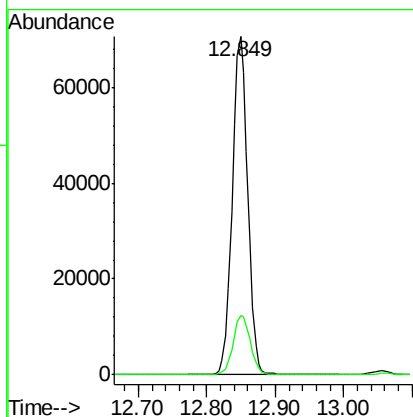
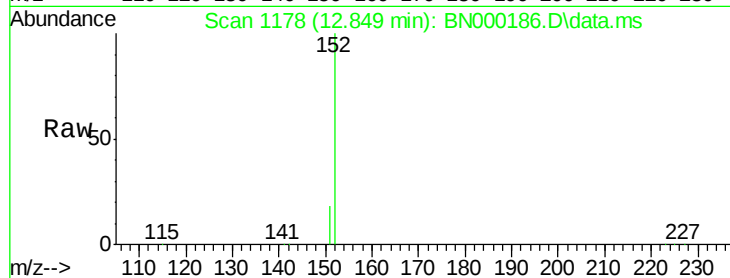
Ion	Ratio	Lower	Upper
225	100		
223	62.8	53.0	79.6
227	63.8	51.4	77.2





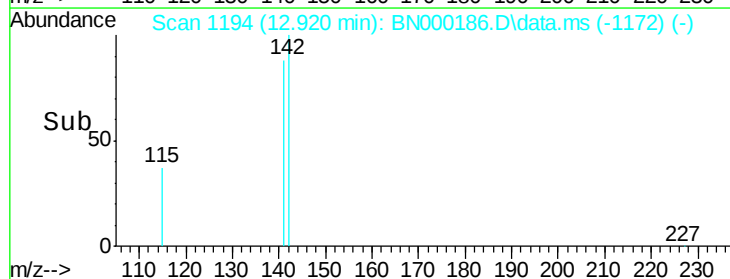
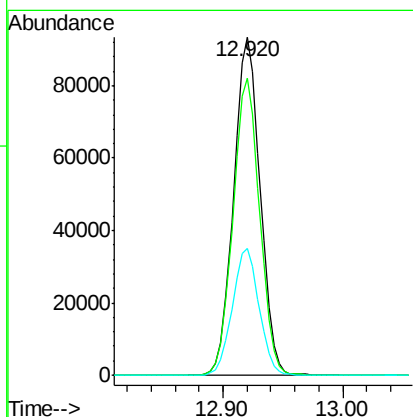
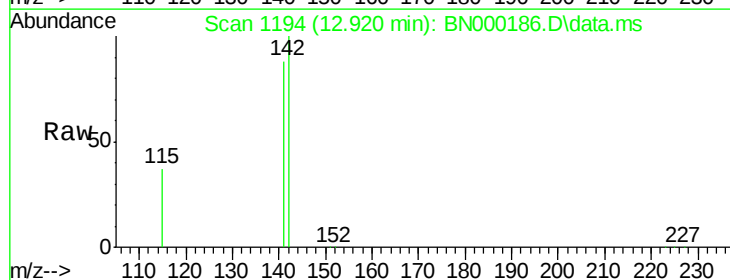
#11
2-Methylnaphthalene-d10
Concen: 2.93 ng
RT: 12.849 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

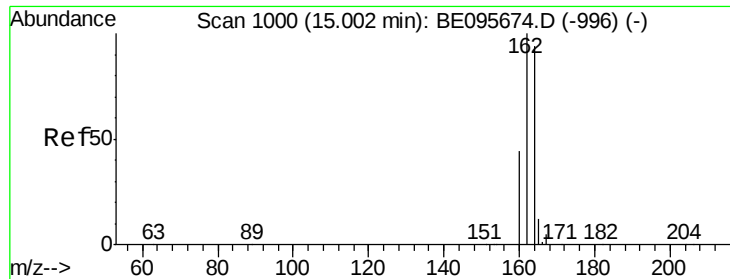
Tot Ion:152 Resp: 111063
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.0



#12
2-Methylnaphthalene
Concen: 3.17 ng
RT: 12.920 min Scan# 1194
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

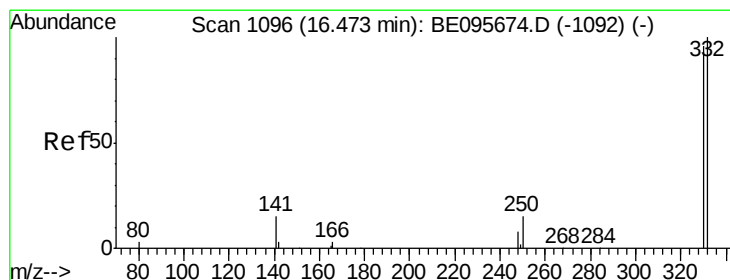
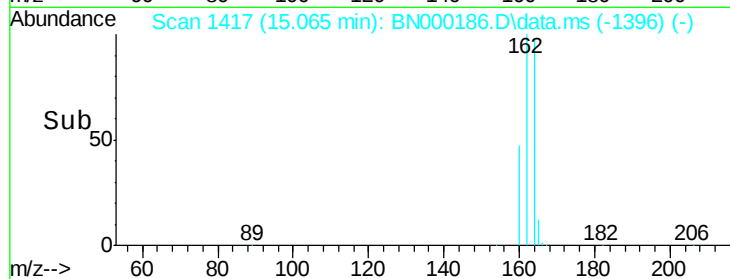
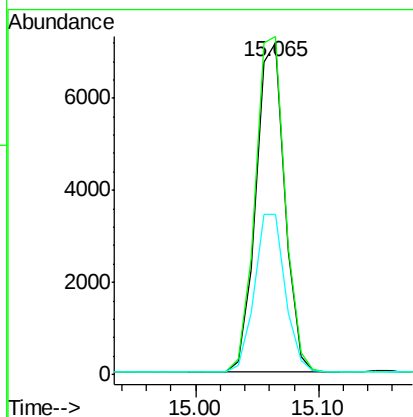
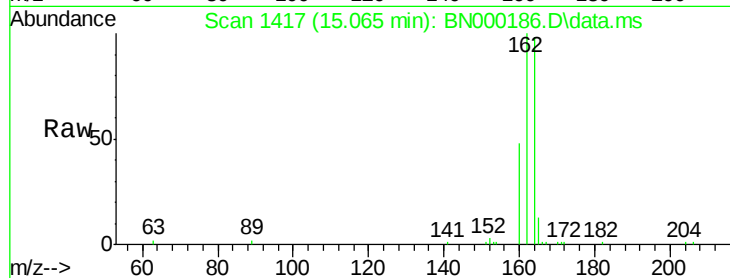
Tgt Ion:142 Resp: 143155
Ion Ratio Lower Upper
142 100
141 88.0 70.4 105.6
115 37.4 31.7 47.5





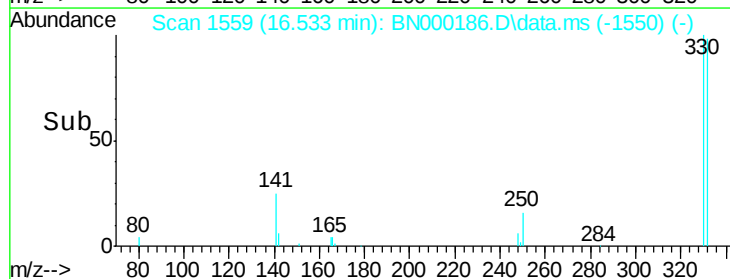
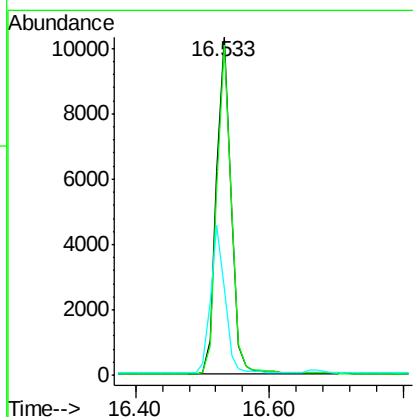
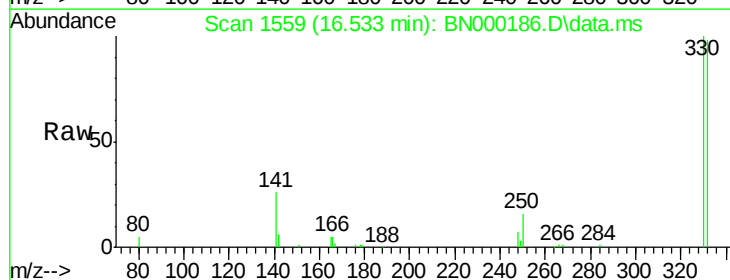
#13
 Acenaphthene-d10
 Concen: 0.40 ng
 RT: 15.065 min Scan# 1417
 Delta R.T. 0.010 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

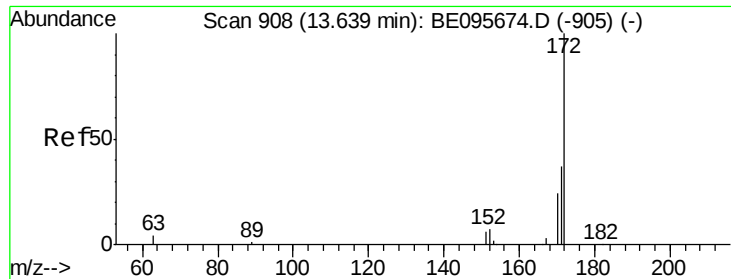
Tot Ion	Ratio	Lower	Upper
164	100		
162	102.1	83.1	124.7
160	48.5	37.1	55.7



#14
 2,4,6-Tribromophenol
 Concen: 3.65 ng
 RT: 16.533 min Scan# 1559
 Delta R.T. -0.000 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

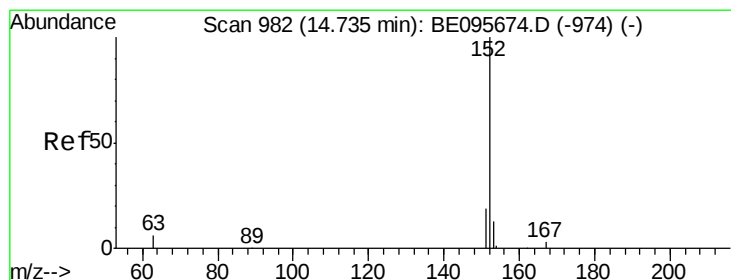
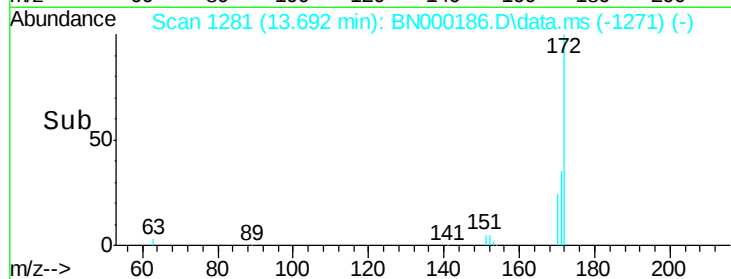
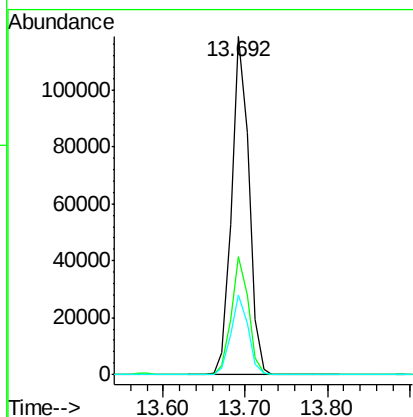
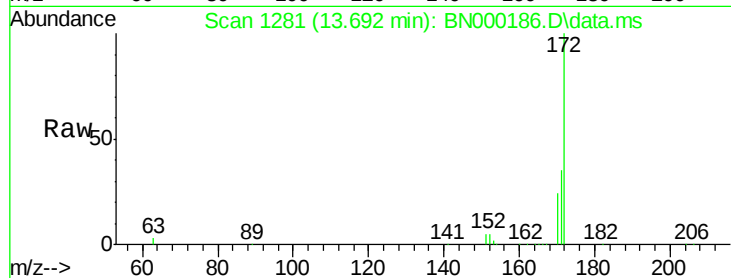
Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.9	152.7	229.1#
141	43.7	33.7	50.5





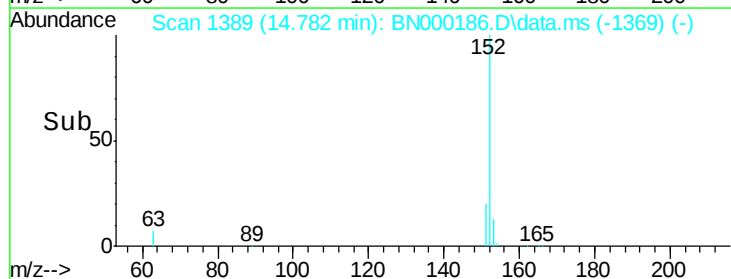
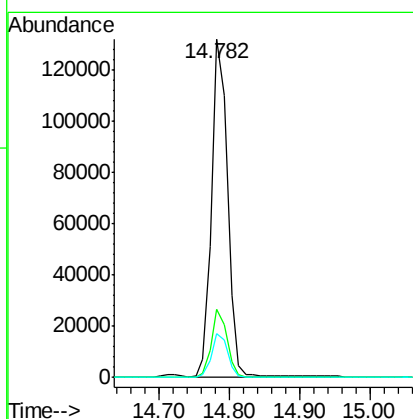
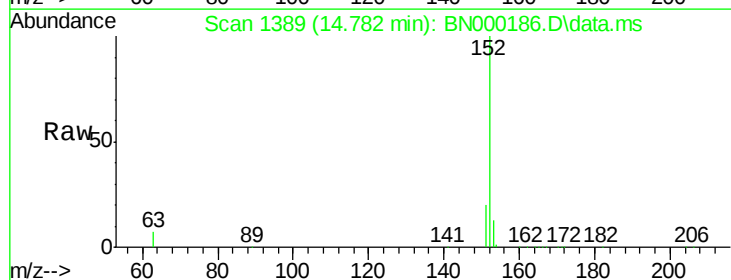
#15
2-Fluorobiphenyl
Concen: 3.32 ng
RT: 13.692 min Scan# 1281
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

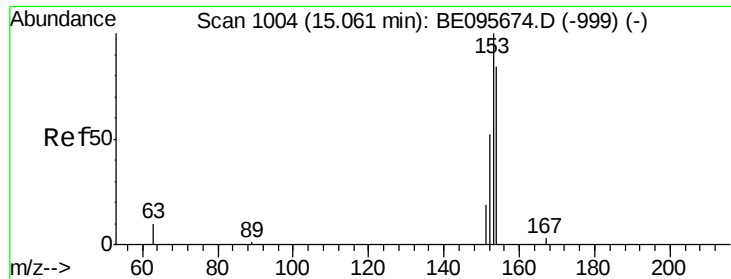
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.9	44.9
170	23.6	21.8	32.8



#16
Acenaphthylene
Concen: 3.15 ng
RT: 14.782 min Scan# 1389
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	13.0	10.5	15.7





#17

Acenaphthene

Concen: 3.54 ng

RT: 15.126 min Scan# 1423

Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

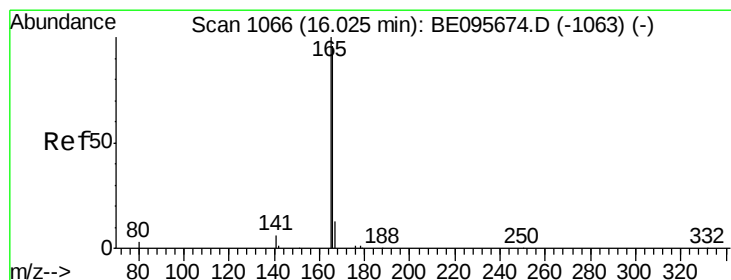
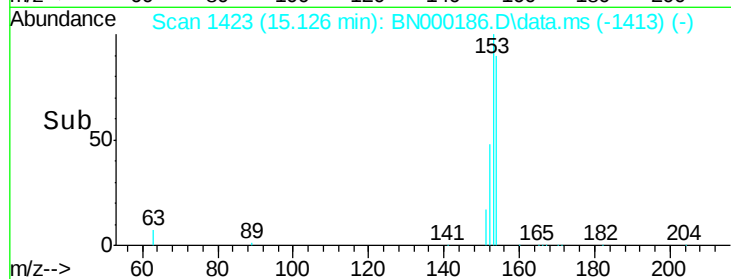
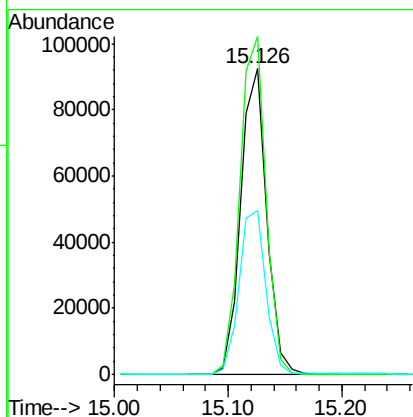
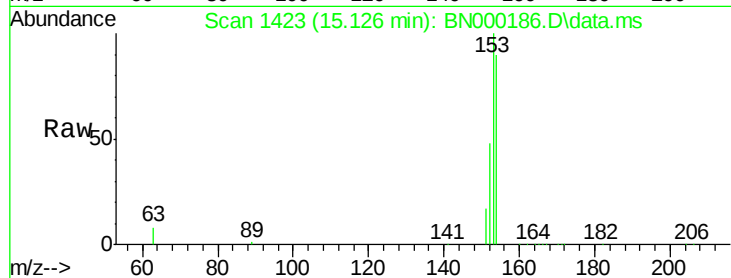
Tot Ion:154 Resp: 145931

Ion Ratio Lower Upper

154 100

153 110.9 89.2 133.8

152 55.3 42.0 63.0



#18

Fluorene

Concen: 3.53 ng

RT: 16.097 min Scan# 1518

Delta R.T. 0.010 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

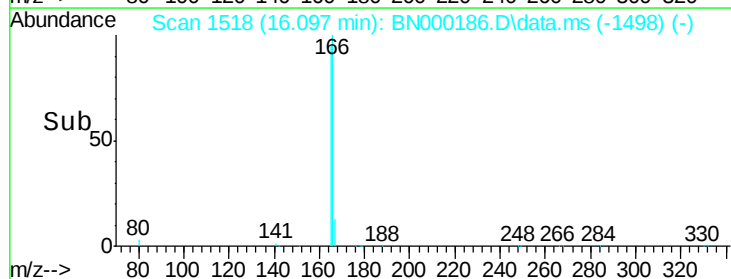
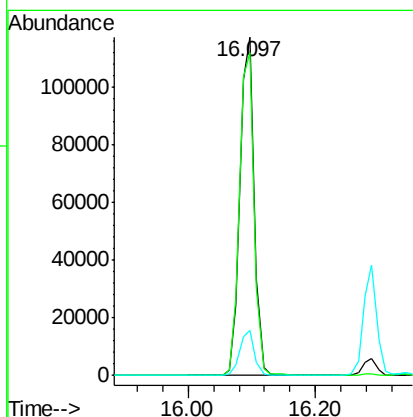
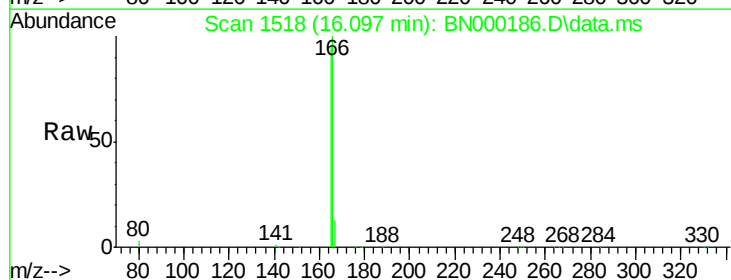
Tgt Ion:166 Resp: 180554

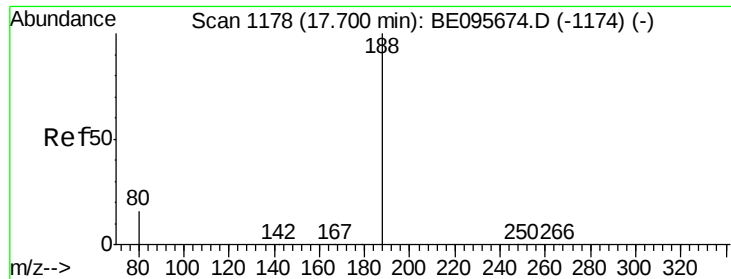
Ion Ratio Lower Upper

166 100

165 97.9 77.8 116.6

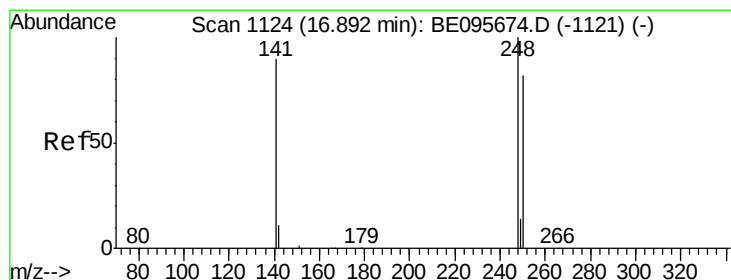
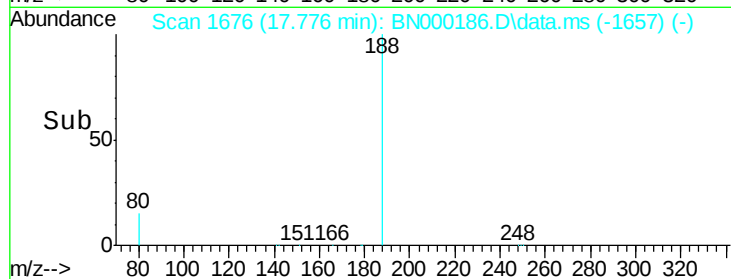
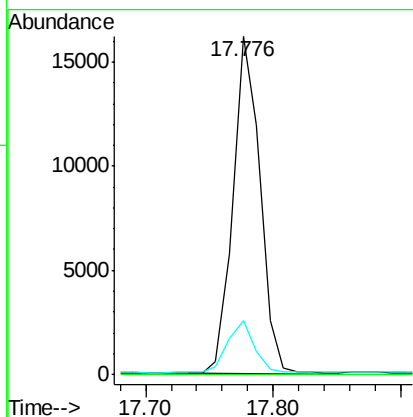
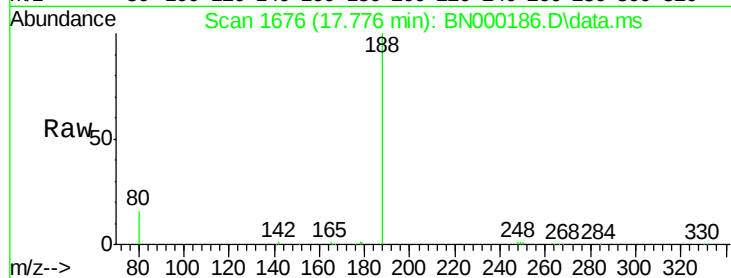
167 13.4 42.4 63.6#





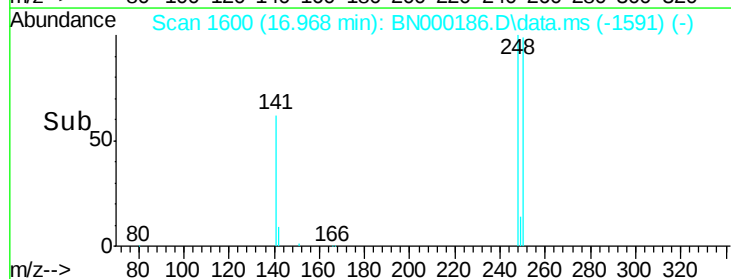
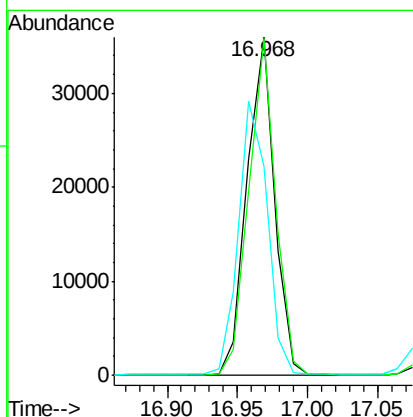
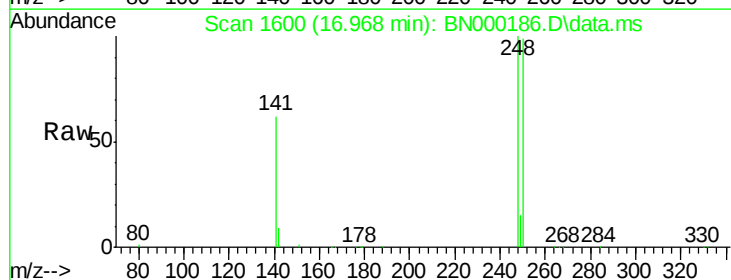
#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.776 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

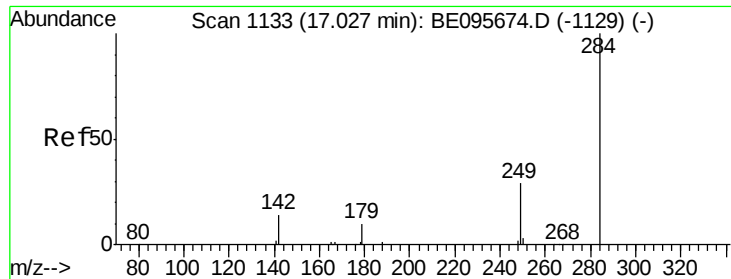
Tot Ion:188 Resp: 23993
Ion Ratio Lower Upper
188 100
94 0.0 3.9 5.9#
80 15.8 3.6 5.4#



#20
4-Bromophenyl-phenylether
Concen: 3.26 ng
RT: 16.968 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

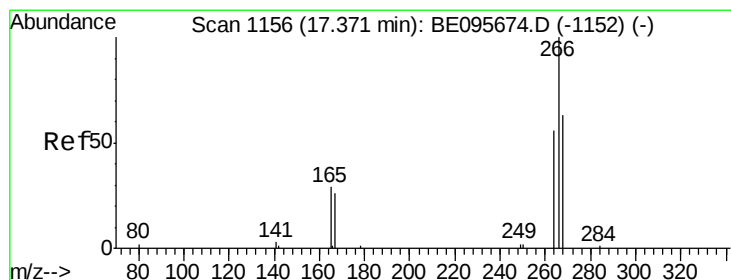
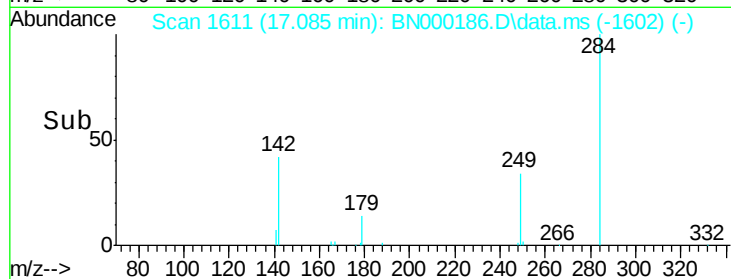
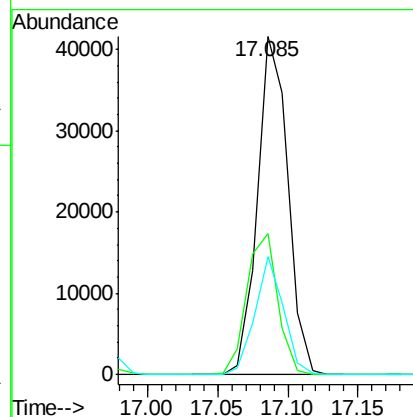
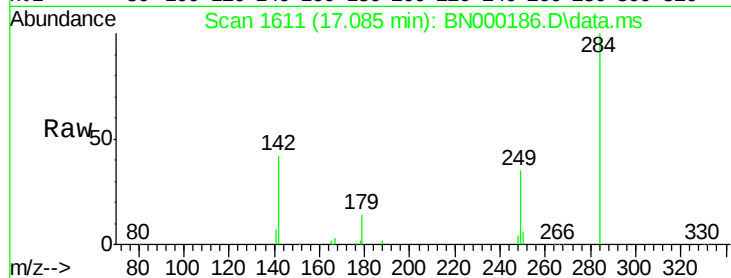
Tgt Ion:248 Resp: 49068
Ion Ratio Lower Upper
248 100
250 99.5 62.7 94.1#
141 61.9 48.2 72.2





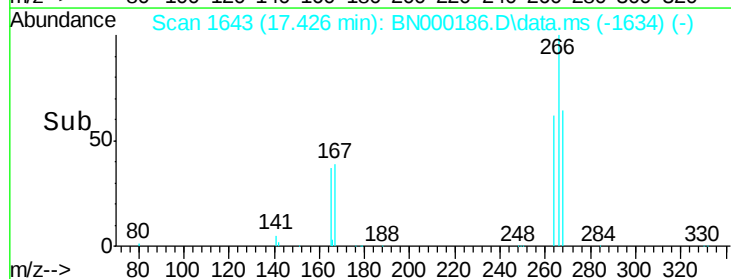
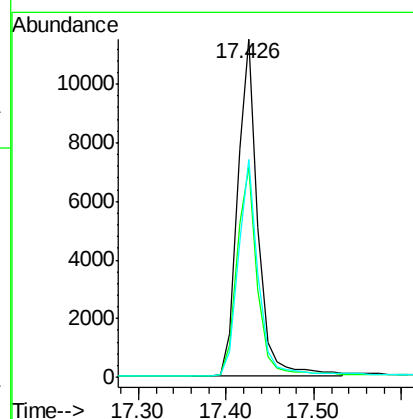
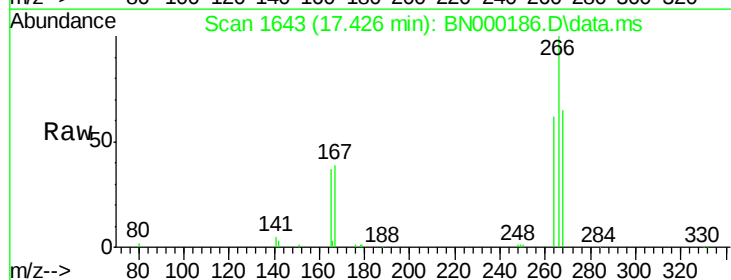
#21
Hexachlorobenzene
Concen: 4.01 ng
RT: 17.085 min Scan# 1611
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

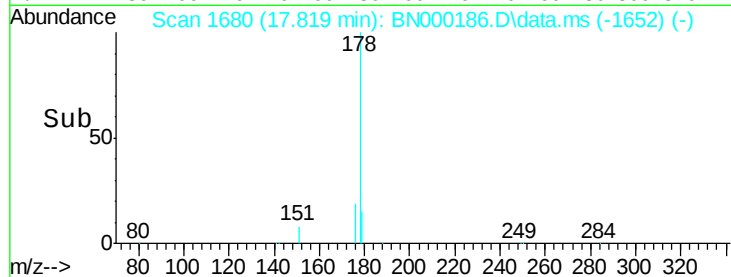
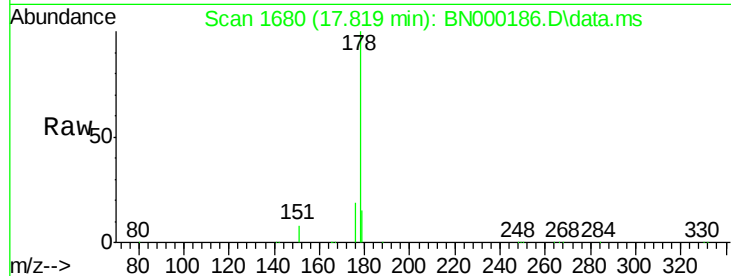
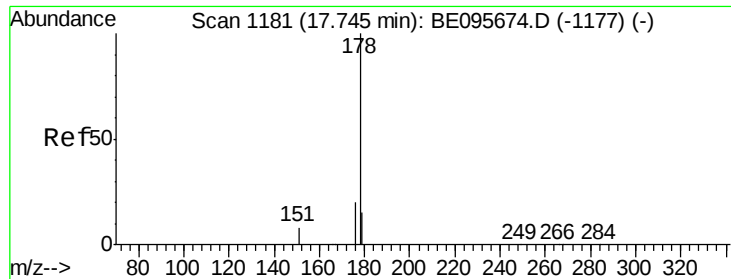
Tot Ion	Ratio	Lower	Upper
284	100		
142	42.3	22.1	33.1#
249	32.2	34.8	52.2#



#22
Pentachlorophenol
Concen: 5.07 ng
RT: 17.426 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

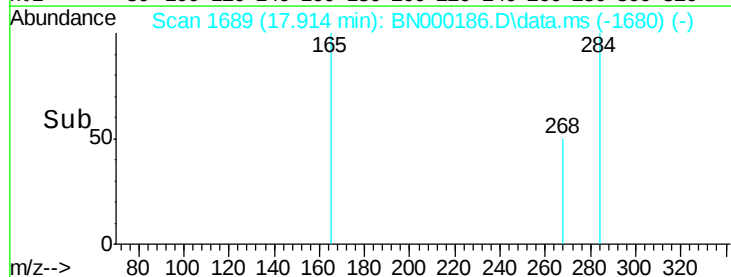
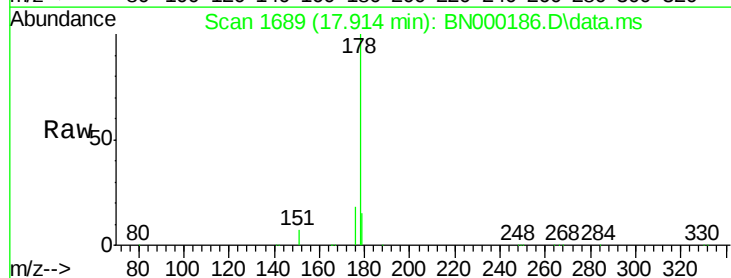
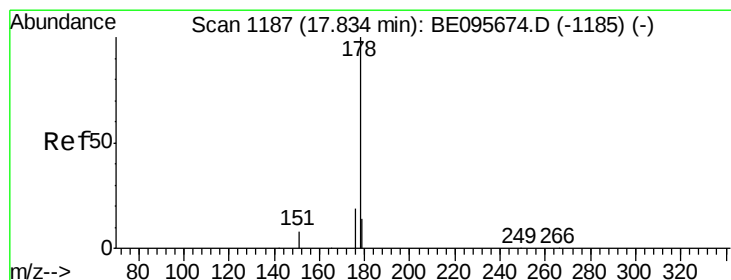
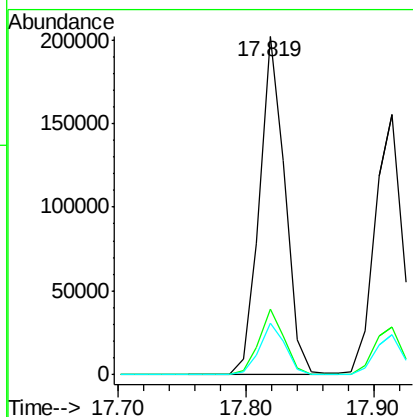
Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.0	72.5	108.7#
268	64.6	73.8	110.6#





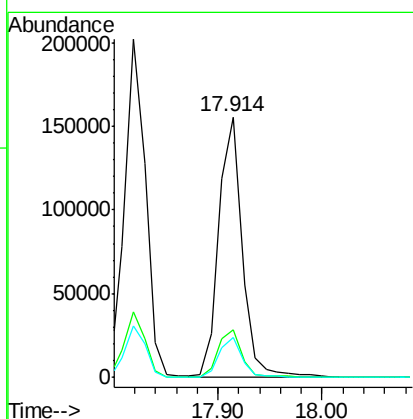
#23
Phenanthrene
Concen: 3.75 ng
RT: 17.819 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

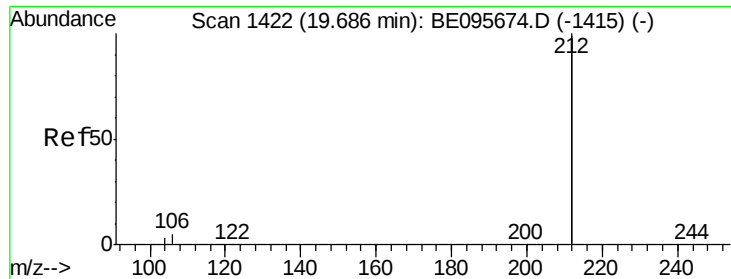
Tot Ion:178	Resp:	281253
Ion Ratio	Lower	Upper
178	100	
176	19.3	15.1 22.7
179	15.2	11.8 17.6



#24
Anthracene
Concen: 3.41 ng
RT: 17.914 min Scan# 1689
Delta R.T. -0.000 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

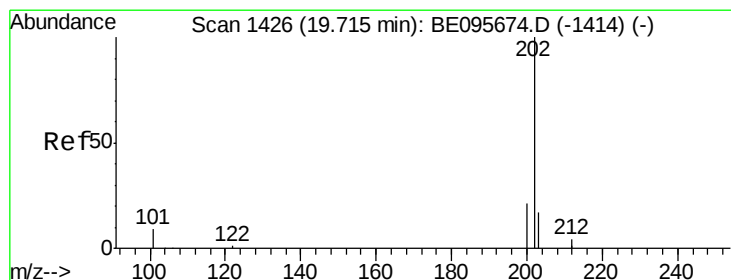
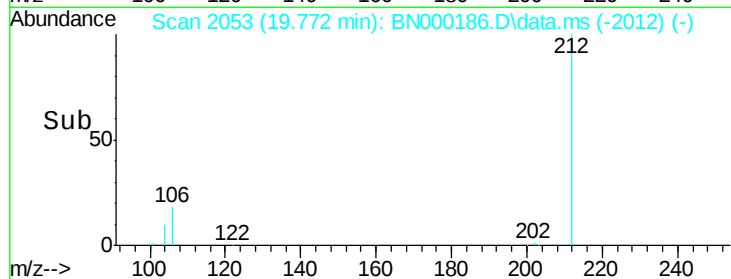
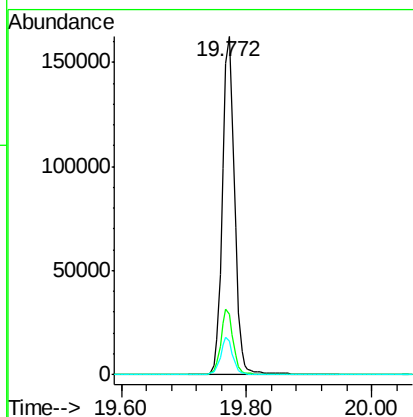
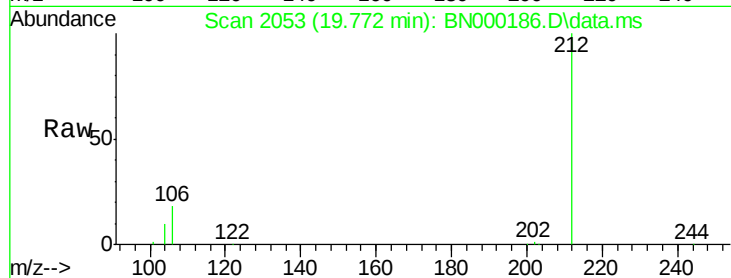
Tgt Ion:178	Resp:	235137
Ion Ratio	Lower	Upper
178	100	
176	18.8	12.8 19.2
179	15.5	13.0 19.6





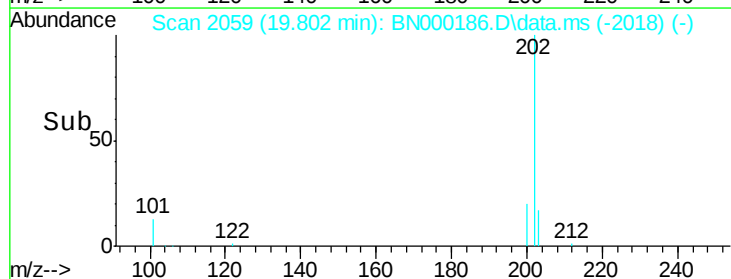
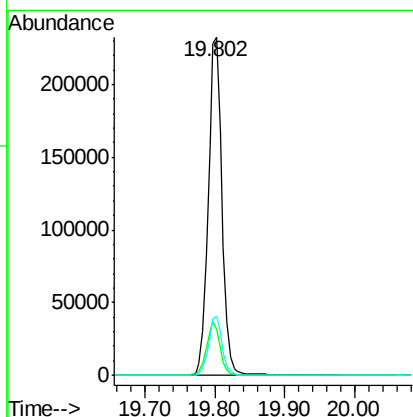
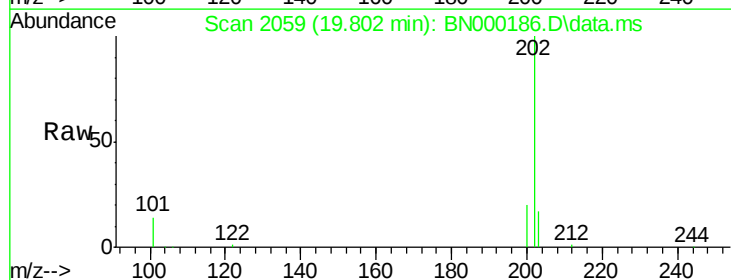
#25
 Fluoranthene-d10
 Concen: 0.70 ng
 RT: 19.772 min Scan# 2053
 Delta R.T. 0.005 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

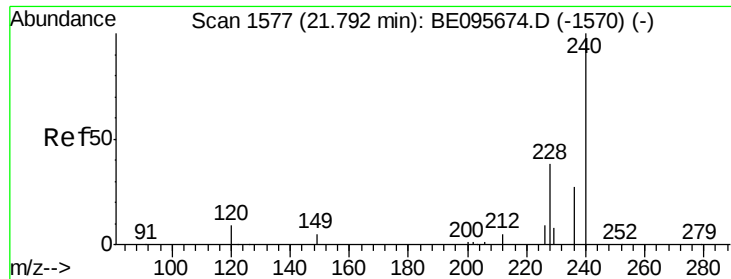
Tot Ion	Ratio	Lower	Upper
212	100		
106	19.4	2.8	4.2#
104	10.8	1.6	2.4#



#26
 Fluoranthene
 Concen: 3.42 ng
 RT: 19.802 min Scan# 2059
 Delta R.T. 0.005 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

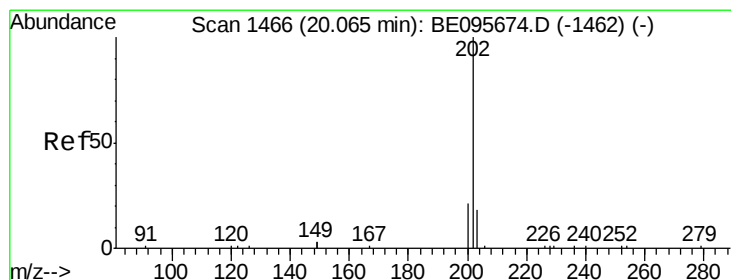
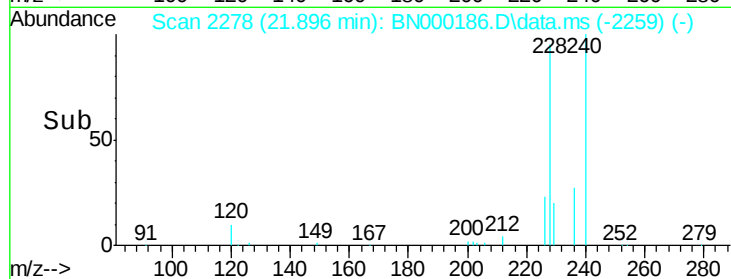
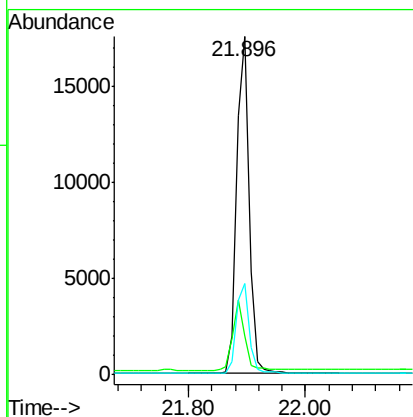
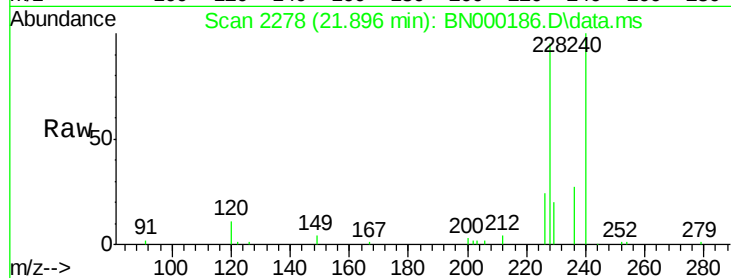
Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.7	9.8	14.8#
203	17.3	13.7	20.5





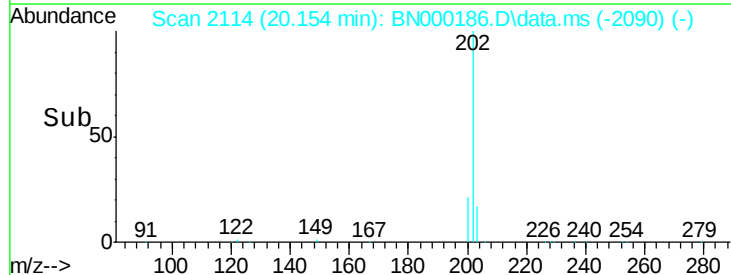
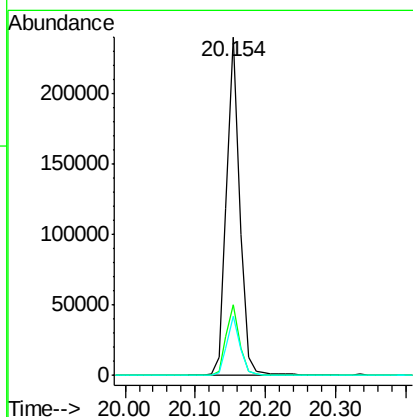
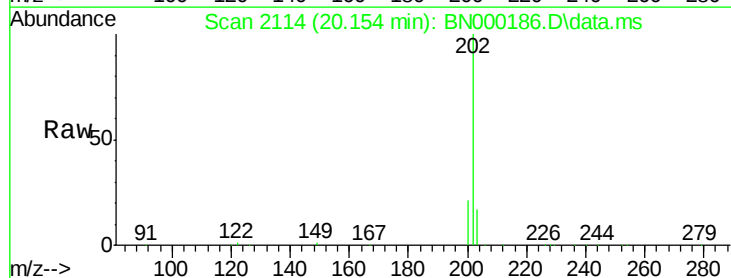
#27
 Chrysene-d12
 Concen: 0.40 ng
 RT: 21.896 min Scan# 2278
 Delta R.T. -0.000 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

Tot Ion:240 Resp: 25262
 Ion Ratio Lower Upper
 240 100
 120 11.5 5.5 8.3#
 236 27.0 20.7 31.1



#28
 Pyrene
 Concen: 3.04 ng
 RT: 20.154 min Scan# 2114
 Delta R.T. -0.000 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

Tgt Ion:202 Resp: 314400
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.6 25.0
 203 17.3 13.8 20.8





#29

Terphenyl-d14

Concen: 2.78 ng

RT: 20.335 min Scan# 2131

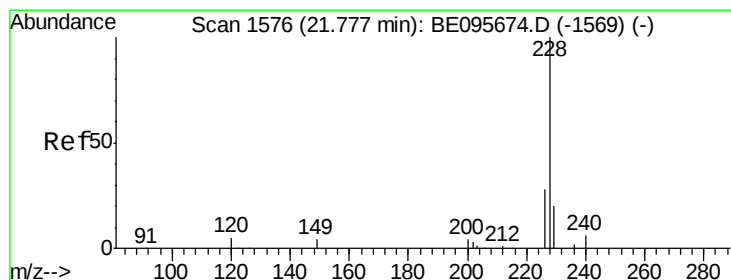
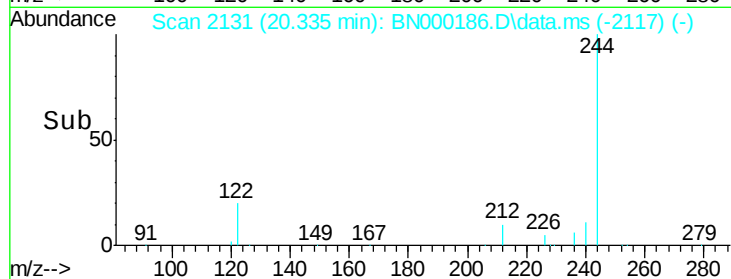
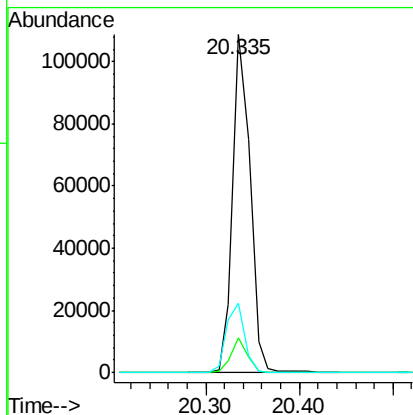
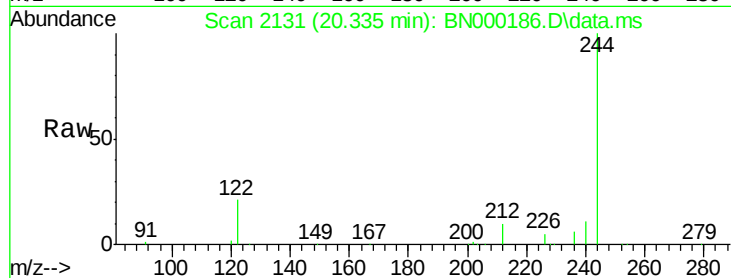
Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tot Ion:244 Resp: 139797

Ion	Ratio	Lower	Upper
244	100		
212	10.1	25.4	38.0#
122	20.6	8.1	12.1#



#30

Benzo(a)anthracene

Concen: 3.32 ng

RT: 21.875 min Scan# 2276

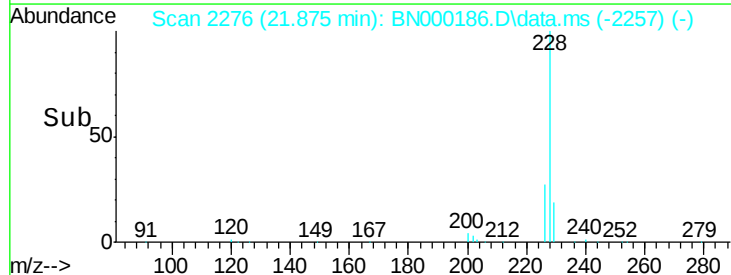
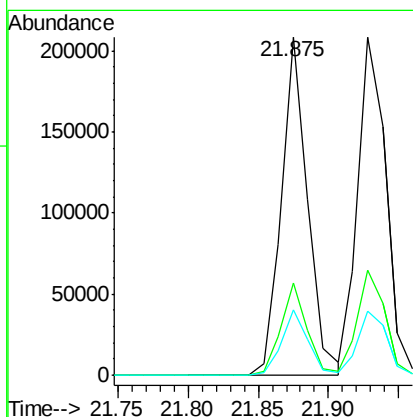
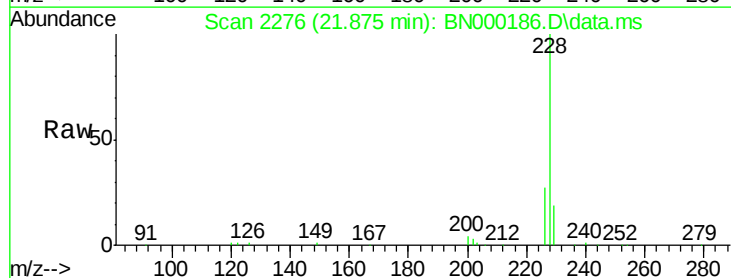
Delta R.T. -0.000 min

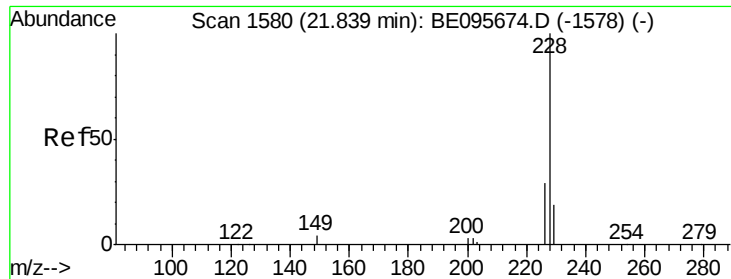
Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tgt Ion:228 Resp: 273808

Ion	Ratio	Lower	Upper
228	100		
226	27.4	24.0	36.0
229	19.4	16.0	24.0





#31

Chrysene

Concen: 3.55 ng

RT: 21.928 min Scan# 2281

Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

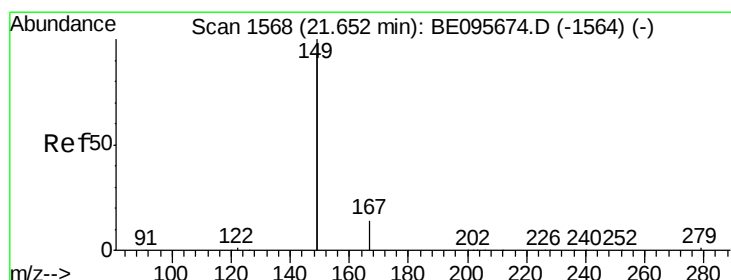
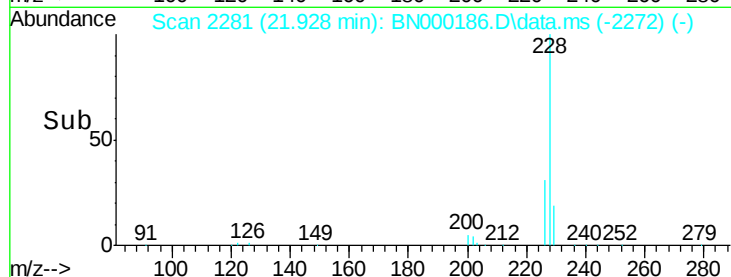
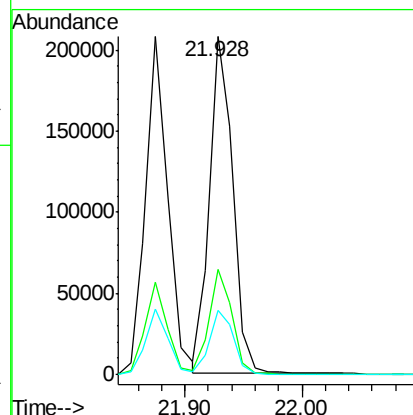
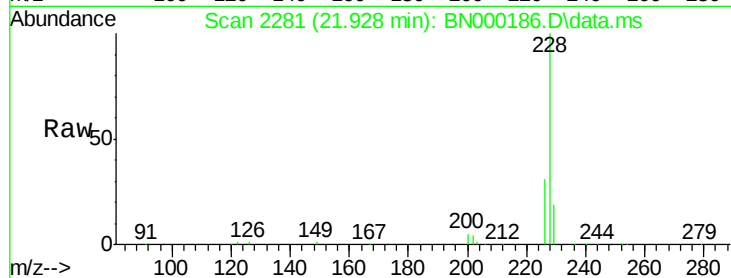
Tot Ion:228 Resp: 290851

Ion Ratio Lower Upper

228 100

226 31.0 24.0 36.0

229 19.1 16.0 24.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.67 ng

RT: 21.758 min Scan# 2265

Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

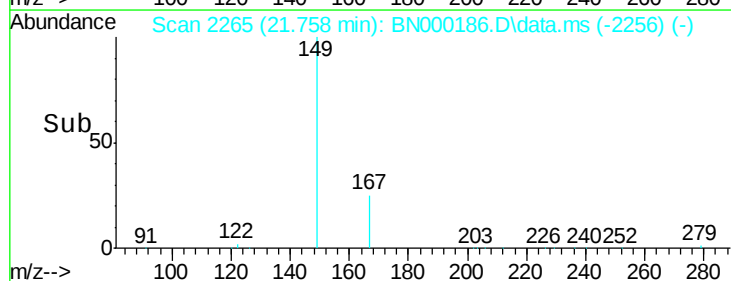
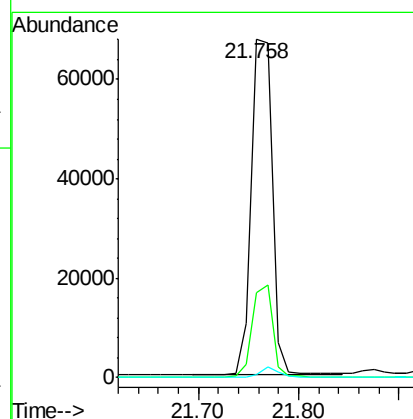
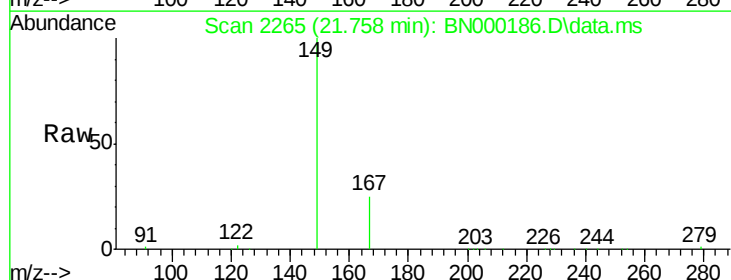
Tgt Ion:149 Resp: 97397

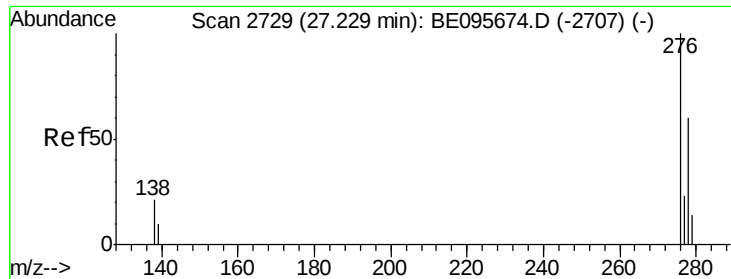
Ion Ratio Lower Upper

149 100

167 26.3 5.4 8.0#

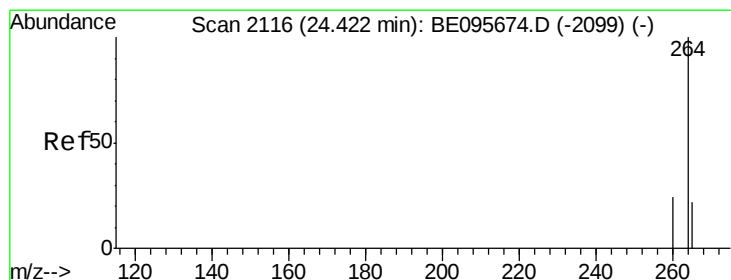
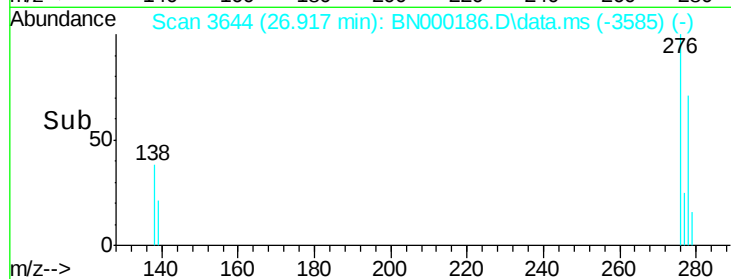
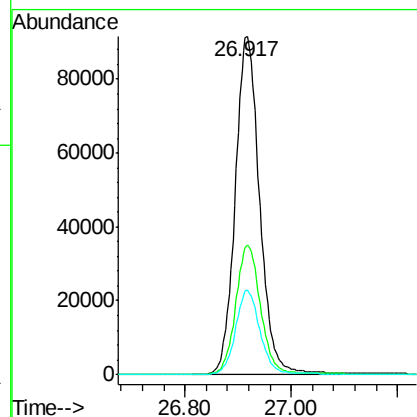
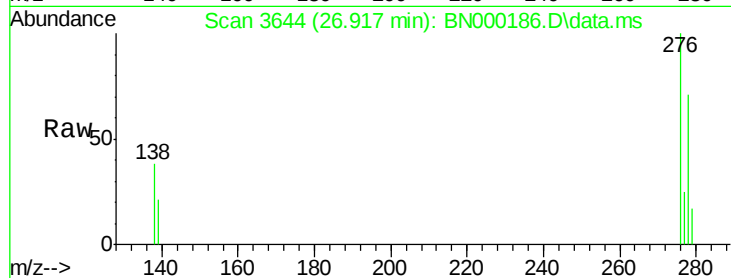
279 2.3 0.7 1.1#





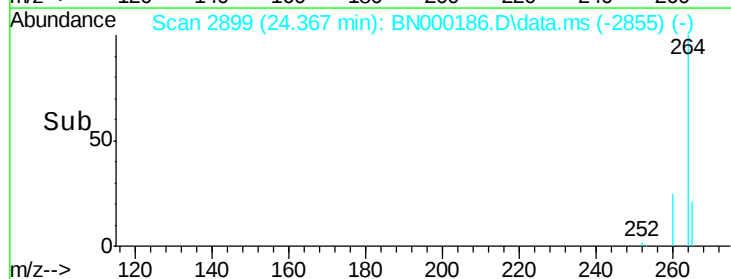
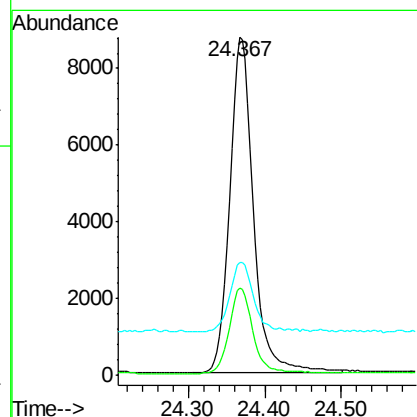
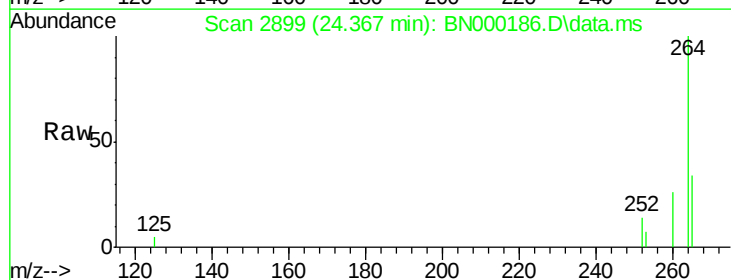
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 3.67 ng
 RT: 26.917 min Scan# 3644
 Delta R.T. 0.003 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

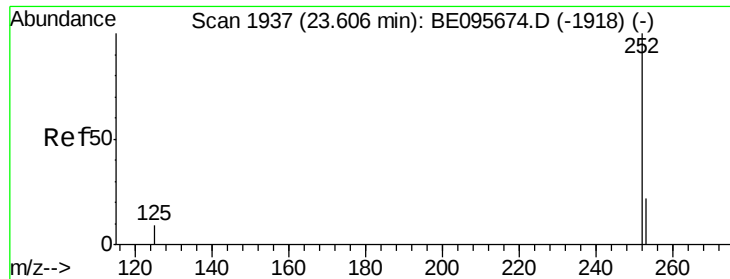
Tot Ion	Ratio	Lower	Upper
276	100		
138	39.0	22.5	33.7#
277	24.9	19.9	29.9



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 24.367 min Scan# 2899
 Delta R.T. -0.000 min
 Lab File: BN000186.D
 Acq: 27 Feb 2018 12:08

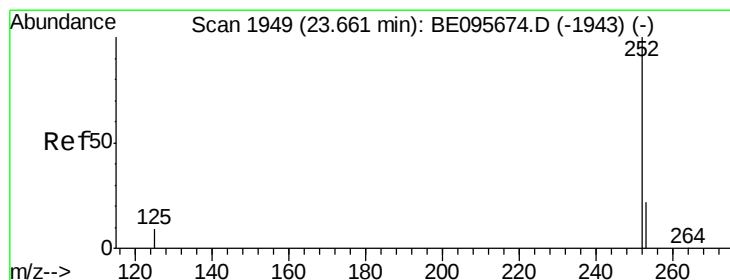
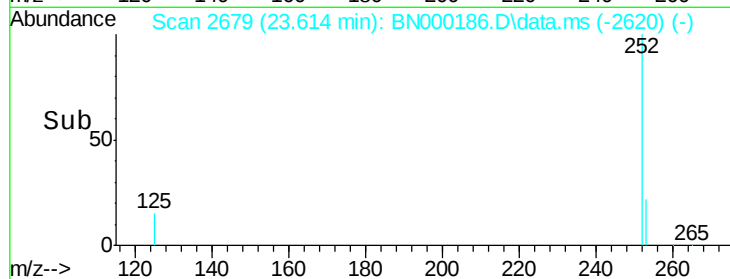
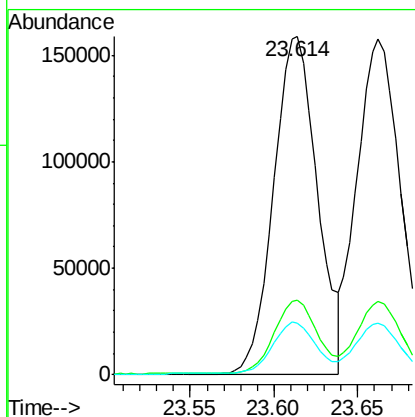
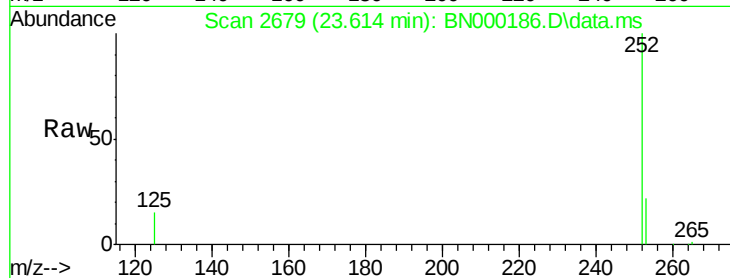
Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.8	20.5	30.7
265	33.5	22.8	34.2





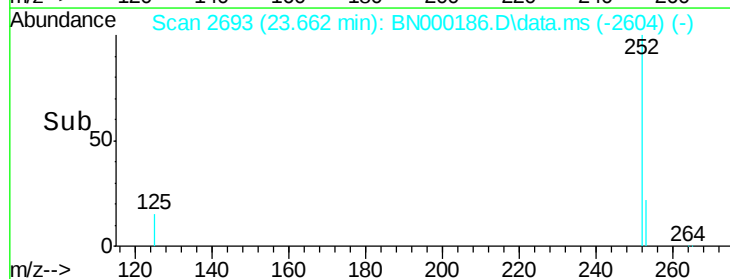
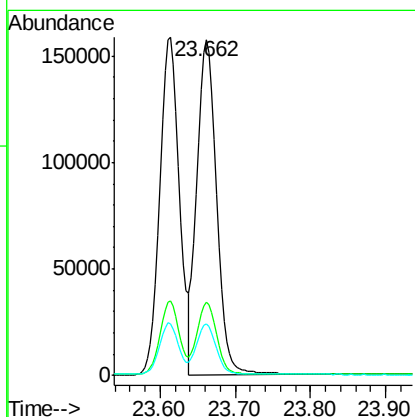
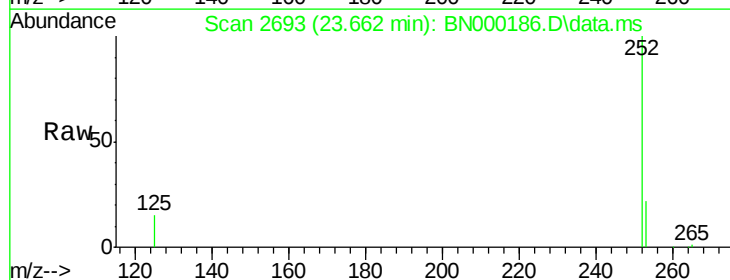
#35
Benzo(b)fluoranthene
Concen: 4.23 ng
RT: 23.614 min Scan# 2679
Delta R.T. 0.003 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

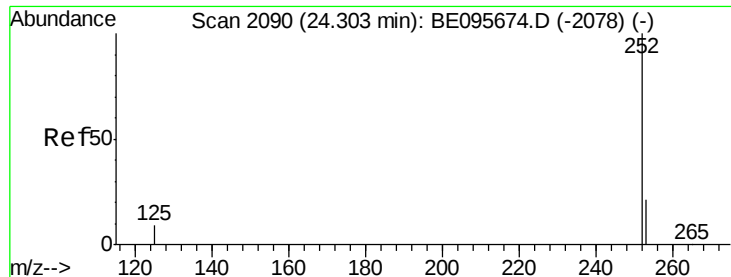
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.0	30.0
125	15.4	16.0	24.0



#36
Benzo(k)fluoranthene
Concen: 4.28 ng
RT: 23.662 min Scan# 2693
Delta R.T. 0.003 min
Lab File: BN000186.D
Acq: 27 Feb 2018 12:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	16.0	24.0
125	15.3	8.0	12.0





#37

Benzo(a)pyrene

Concen: 4.07 ng

RT: 24.261 min Scan# 2868

Delta R.T. 0.003 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

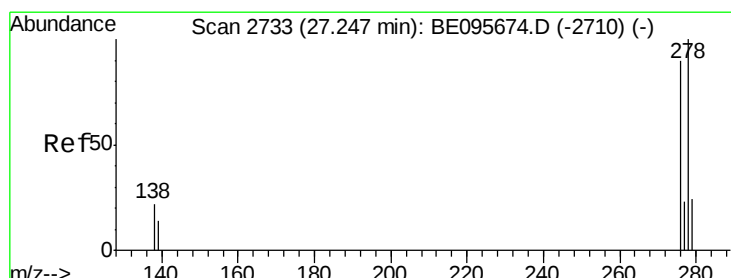
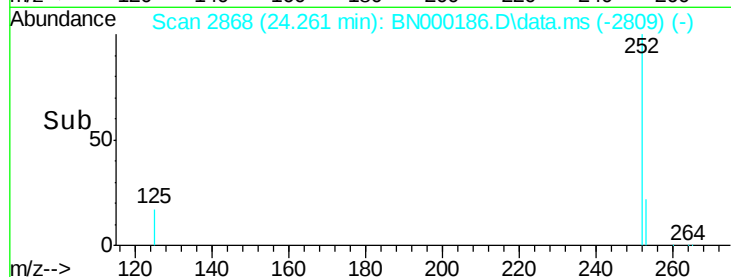
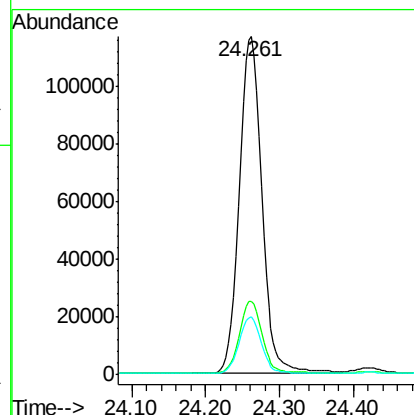
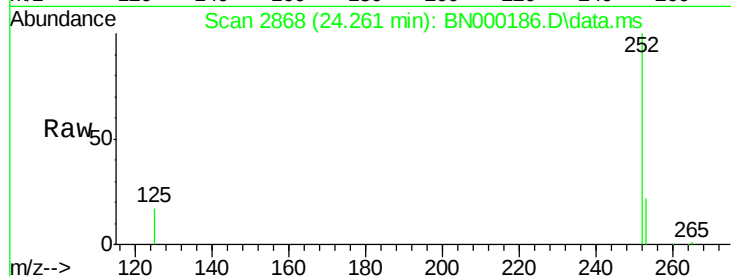
Tot Ion:252 Resp: 250118

Ion Ratio Lower Upper

252 100

253 21.8 16.0 24.0

125 17.0 12.0 18.0



#38

Dibenzo(a,h)anthracene

Concen: 4.33 ng

RT: 26.927 min Scan# 3647

Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

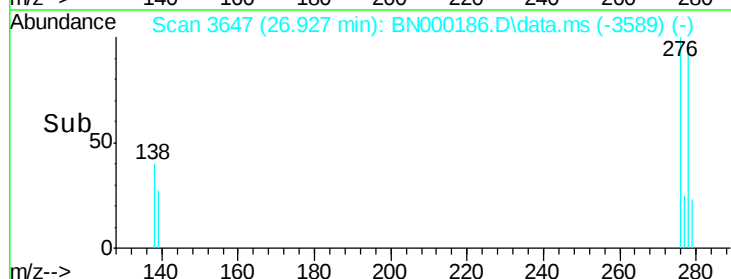
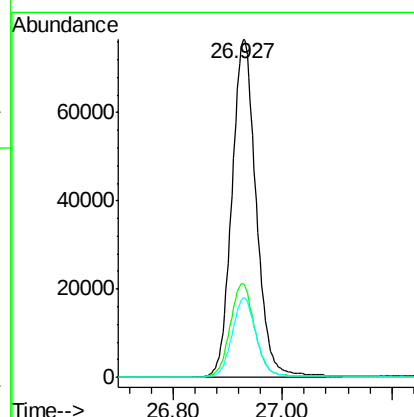
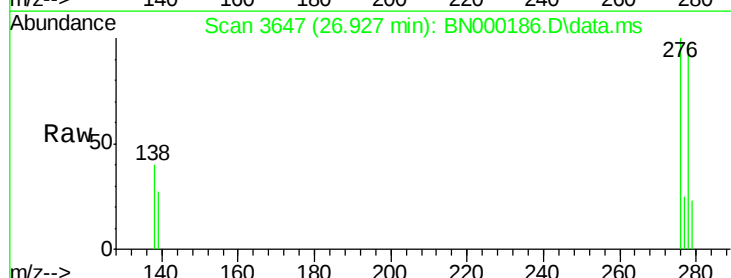
Tgt Ion:278 Resp: 236443

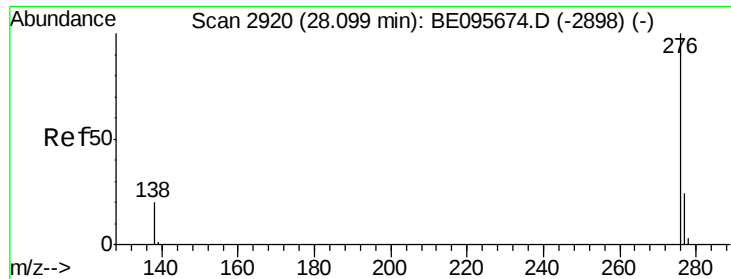
Ion Ratio Lower Upper

278 100

139 27.7 16.0 24.0#

279 23.4 20.0 30.0





#39

Benzo(a,h,i)perylene

Concen: 4.29 ng

RT: 27.701 min Scan# 3873

Delta R.T. -0.000 min

Lab File: BN000186.D

Acq: 27 Feb 2018 12:08

Tot Ion: 276 Resp: 251012

Ion Ratio Lower Upper

276 100

277 23.5 16.0 24.0

138 33.9 20.0 30.0#

