

Data Path : Z:\HPCHEM1\BNA N\Data\BN022718\
 Data File : BN000187.D
 Acq On : 27 Feb 2018 12:42
 Operator : JU/SJ
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 13:14:14 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	5707	0.40	ng	0.00
7) Naphthalene-d8	11.288	136	20600	0.40	ng	0.00
13) Acenaphthene-d10	15.065	164	10097	0.40	ng	0.01
19) Phenanthrene-d10	17.776	188	23112	0.40	ng	0.00
27) Chrysene-d12	21.896	240	20895	0.40	ng	0.00
34) Perylene-d12	24.374	264	17656	0.40	ng	0.00

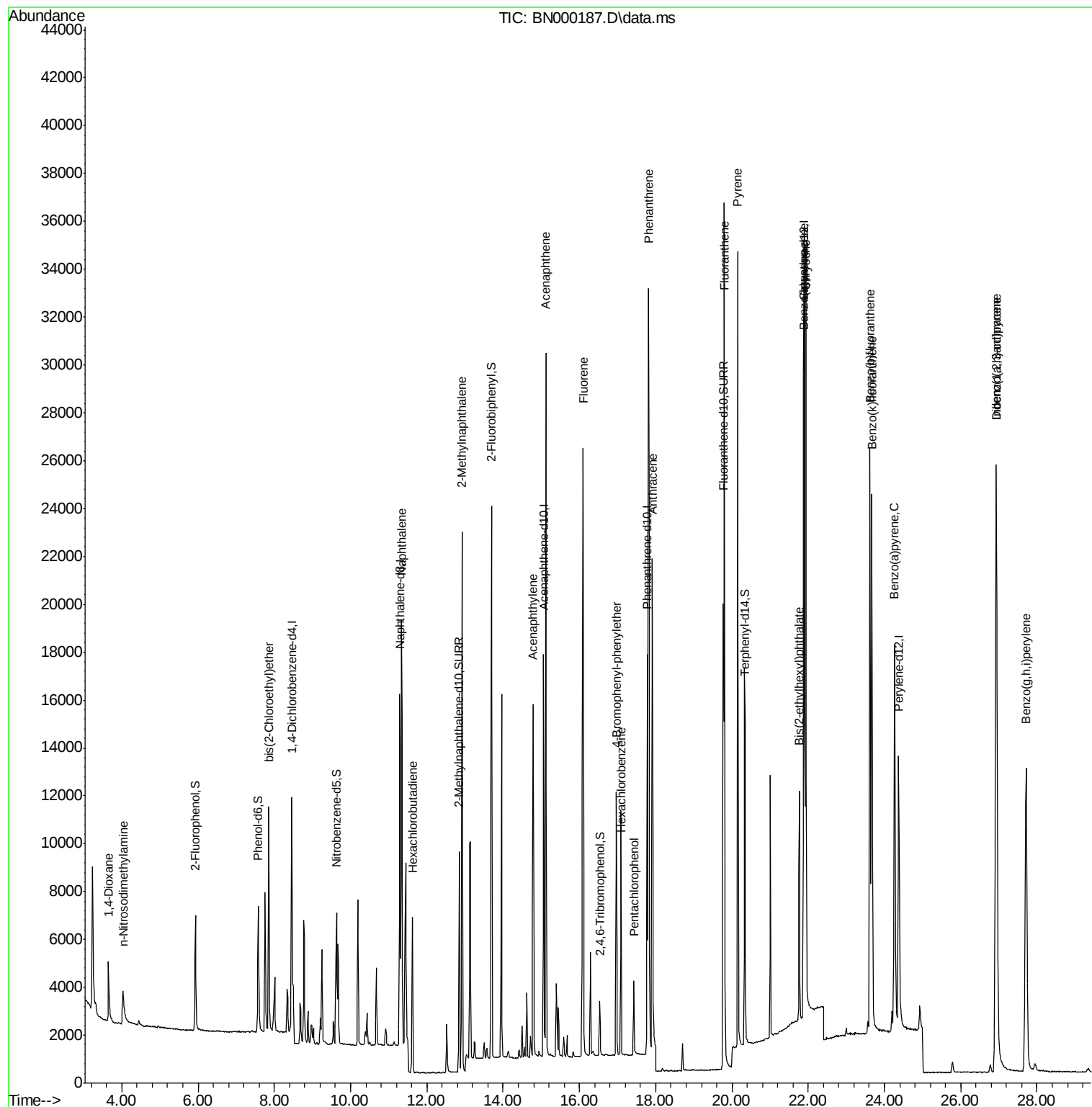
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.929	112	4723	0.31	ng	0.00
5) Phenol-d6	7.580	99	5903	0.28	ng	0.00
8) Nitrobenzene-d5	9.627	82	4773	0.22	ng	0.00
11) 2-Methylnaphthalene-d10	12.849	152	12359	0.36	ng	0.00
14) 2,4,6-Tribromophenol	16.533	330	1280	0.35	ng	0.00
15) 2-Fluorobiphenyl	13.692	172	19607	0.43	ng	0.00
25) Fluoranthene-d10	19.773	212	23898	0.08	ng	0.00
29) Terphenyl-d14	20.346	244	15091	0.36	ng	0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.654	88	2742	0.31	ng	# 70
3) n-Nitrosodimethylamine	4.021	42	1460	0.13	ng	# 71
6) bis(2-Chloroethyl)ether	7.853	93	7527	0.35	ng	# 1
9) Naphthalene	11.338	128	24128	0.10	ng	# 73
10) Hexachlorobutadiene	11.622	225	4154	0.30	ng	98
12) 2-Methylnaphthalene	12.921	142	15577	0.38	ng	99
16) Acenaphthylene	14.783	152	18001	0.32	ng	100
17) Acenaphthene	15.126	154	14994	0.42	ng	97
18) Fluorene	16.097	166	18414	0.42	ng	# 79
20) 4-Bromophenyl-phenylether	16.969	248	5196	0.36	ng	# 82
21) Hexachlorobenzene	17.096	284	7132	0.47	ng	# 78
22) Pentachlorophenol	17.426	266	1587	0.46	ng	# 72
23) Phenanthrene	17.819	178	32120	0.44	ng	98
24) Anthracene	17.915	178	24047	0.36	ng	# 94
26) Fluoranthene	19.802	202	32255	0.36	ng	# 96
28) Pyrene	20.155	202	32946	0.39	ng	100
30) Benzo(a)anthracene	21.875	228	25161	0.37	ng	97
31) Chrysene	21.939	228	31783	0.47	ng	99
32) Bis(2-ethylhexyl)phtha...	21.769	149	9196	0.08	ng	# 50
33) Indeno(1,2,3-cd)pyrene	26.928	276	31233	0.48	ng	# 89
35) Benzo(b)fluoranthene	23.618	252	32646	0.52	ng	95
36) Benzo(k)fluoranthene	23.669	252	30802	0.49	ng	# 88
37) Benzo(a)pyrene	24.265	252	26004	0.46	ng	# 91
38) Dibenzo(a,h)anthracene	26.938	278	25087	0.50	ng	# 92
39) Benzo(g,h,i)perylene	27.712	276	27418	0.51	ng	# 85

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 8.461 min Scan# 635

Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

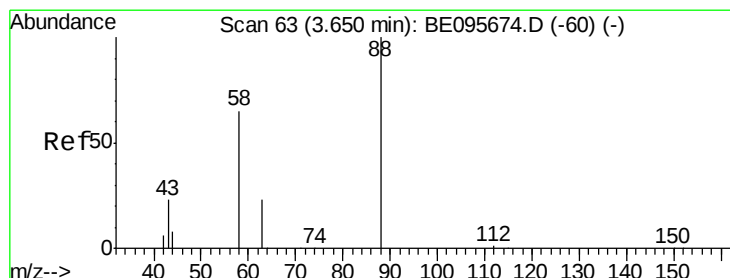
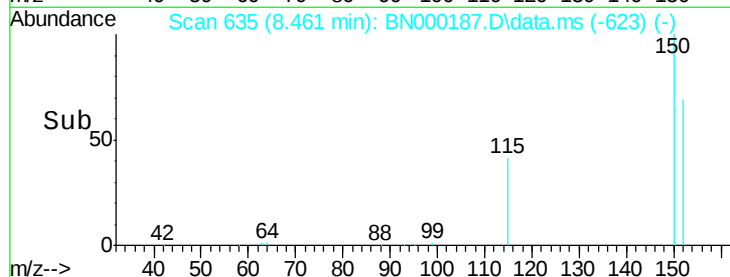
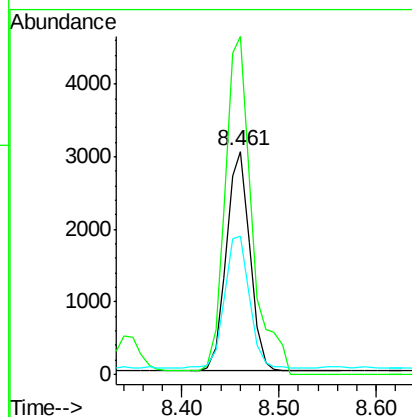
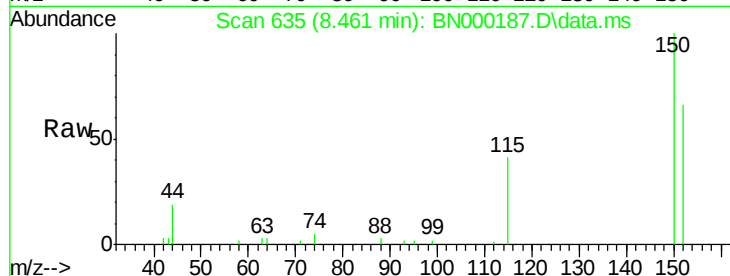
Tot Ion:152 Resp: 5707

Ion Ratio Lower Upper

152 100

150 151.5 117.2 175.8

115 62.1 57.0 85.6



#2

1,4-Dioxane

Concen: 0.31 ng

RT: 3.654 min Scan# 73

Delta R.T. -0.009 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

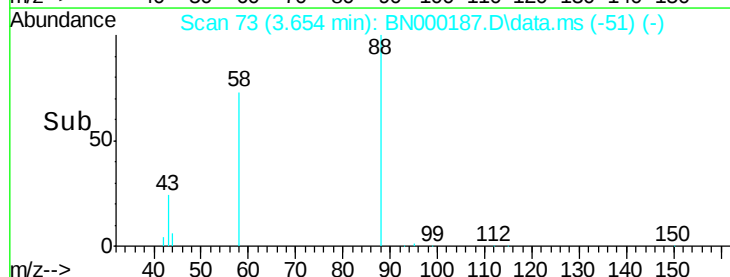
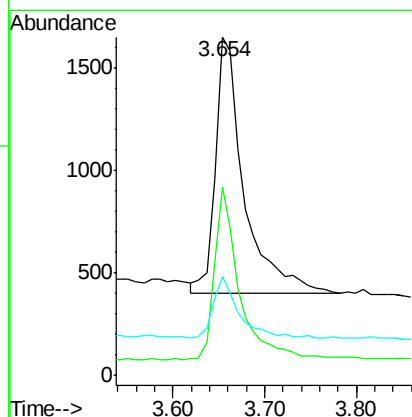
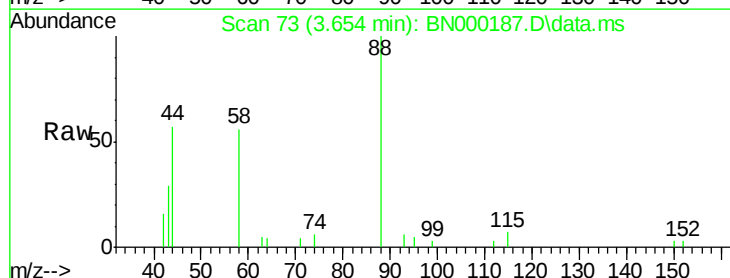
Tgt Ion: 88 Resp: 2742

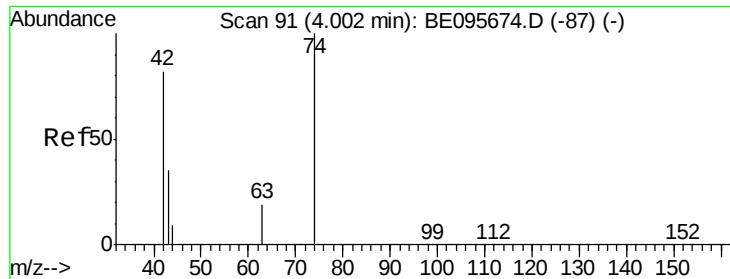
Ion Ratio Lower Upper

88 100

58 59.9 63.2 94.8#

43 21.4 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 0.13 ng

RT: 4.021 min Scan# 116

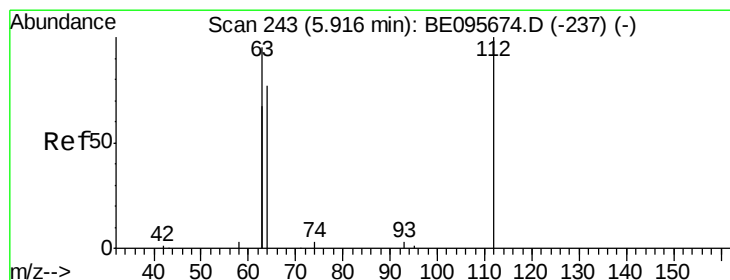
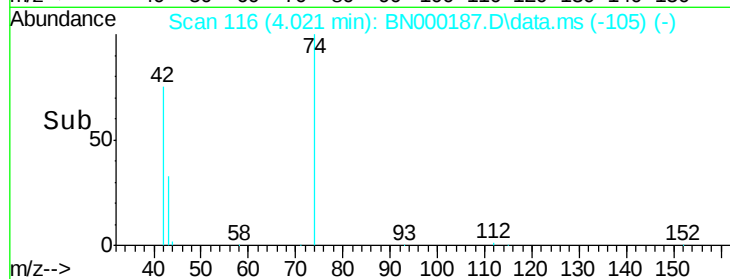
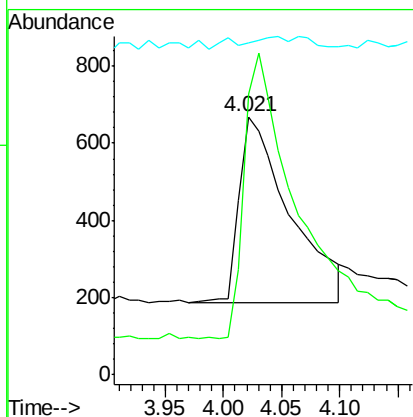
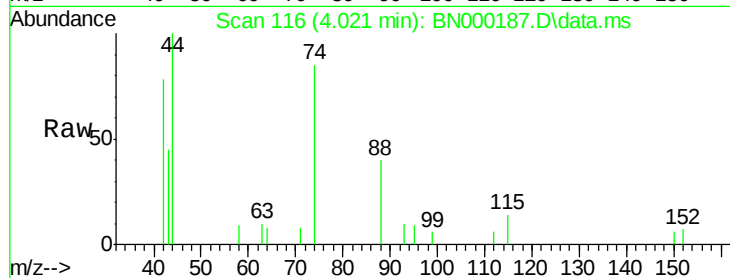
Delta R.T. -0.009 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion: 42 Resp: 1460

Ion	Ratio	Lower	Upper
42	100		
74	151.2	96.0	144.0#
44	0.0	12.0	18.0#



#4

2-Fluorophenol

Concen: 0.31 ng

RT: 5.929 min Scan# 339

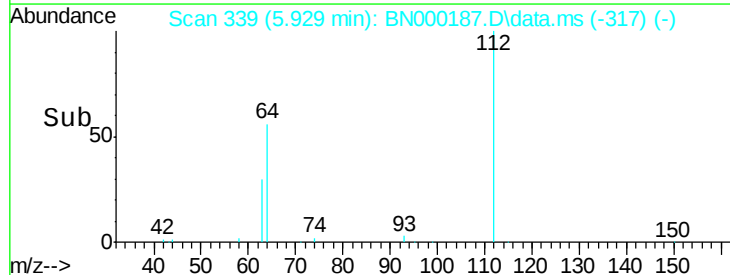
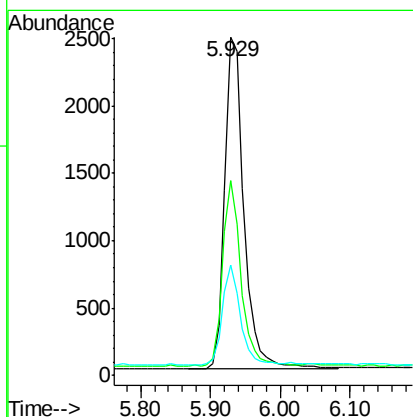
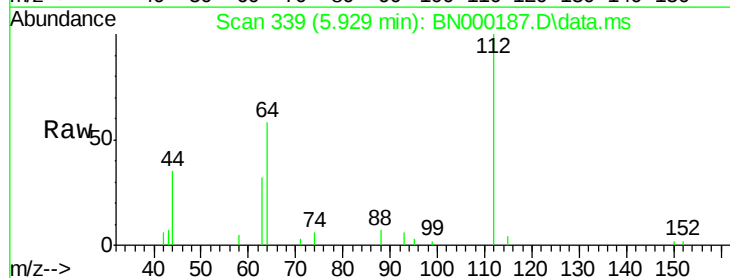
Delta R.T. -0.009 min

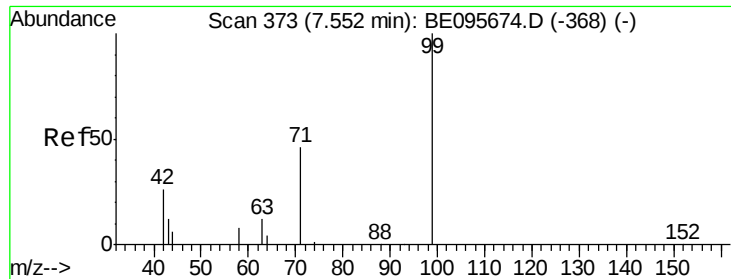
Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tgt Ion: 112 Resp: 4723

Ion	Ratio	Lower	Upper
112	100		
64	53.0	60.1	90.1#
63	27.6	116.8	175.2#





#5

Phenol-d6

Concen: 0.28 ng

RT: 7.580 min Scan# 532

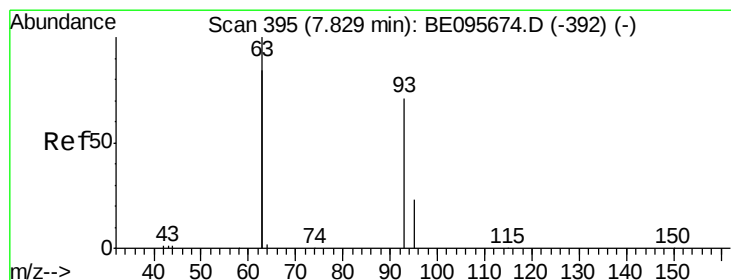
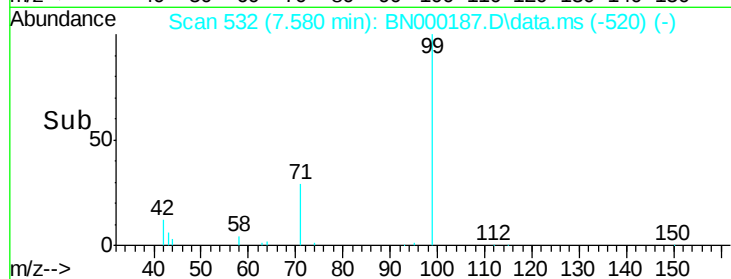
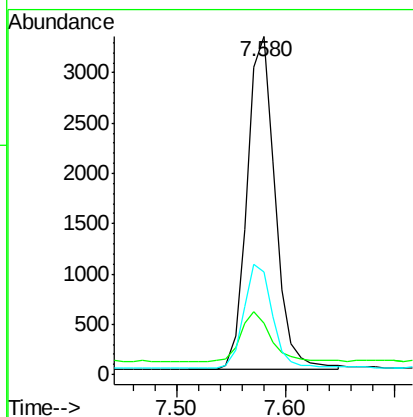
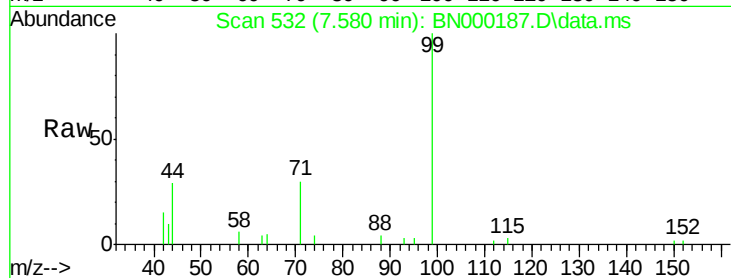
Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion: 99 Resp: 5903

Ion	Ratio	Lower	Upper
99	100		
42	16.3	20.2	30.2#
71	31.5	28.4	42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.35 ng

RT: 7.853 min Scan# 564

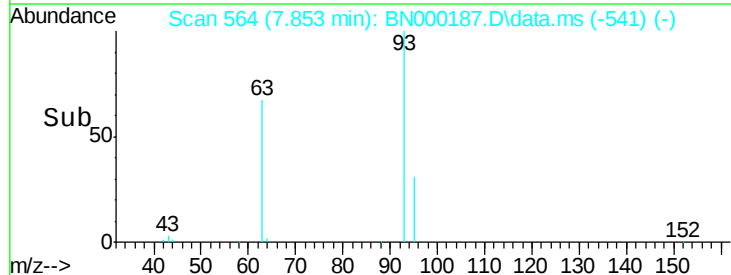
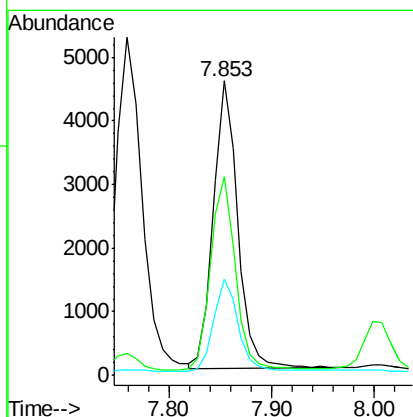
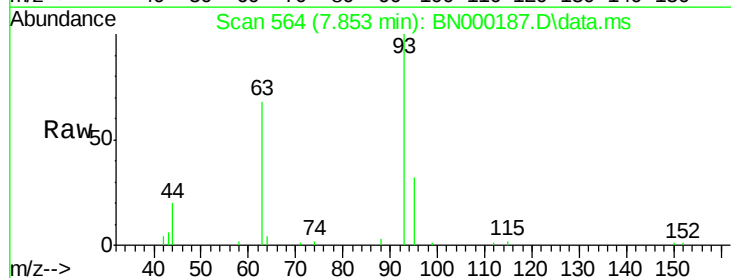
Delta R.T. 0.000 min

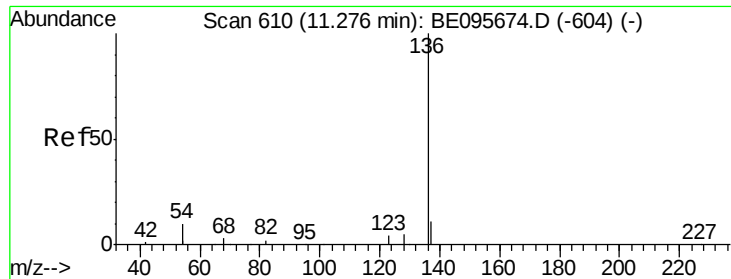
Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tgt Ion: 93 Resp: 7527

Ion	Ratio	Lower	Upper
93	100		
63	68.3	275.3	412.9#
95	31.6	25.2	37.8





#7

Naphthalene-d8

Concen: 0.40 ng

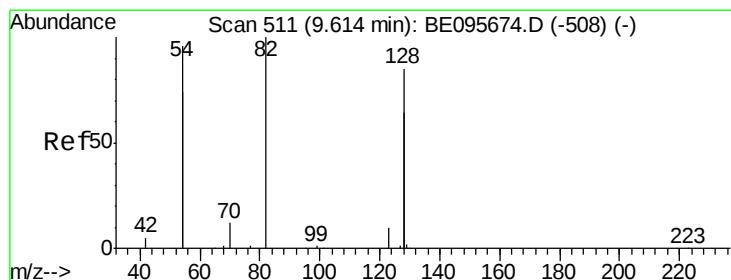
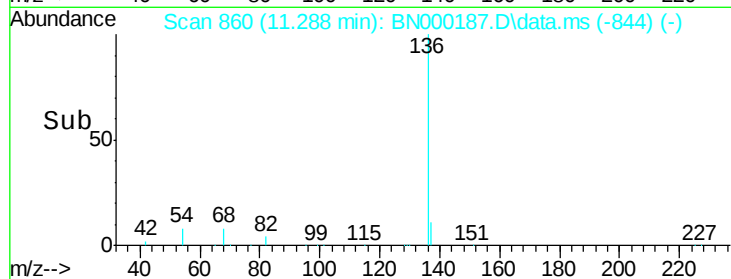
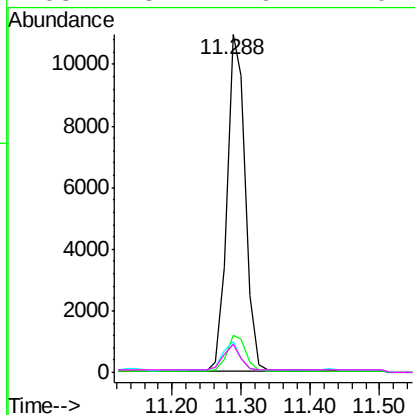
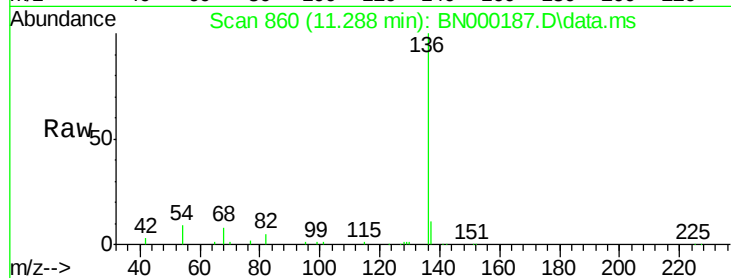
RT: 11.288 min Scan# 860

Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion:136	Resp:	20600
Ion Ratio	Lower	Upper
136	100	
137	11.2	9.5 14.3
54	9.0	29.1 43.7#
68	8.4	6.2 9.2



#8

Nitrobenzene-d5

Concen: 0.22 ng

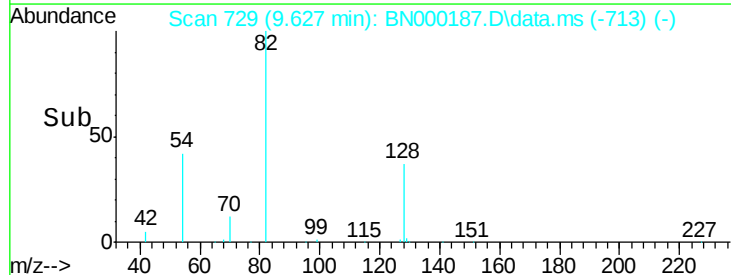
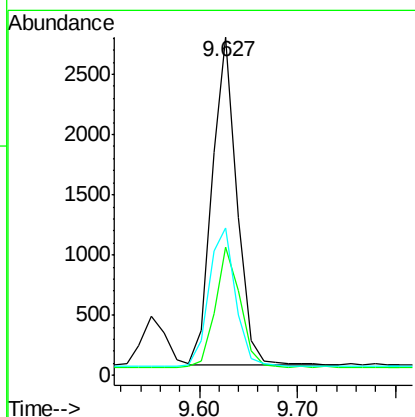
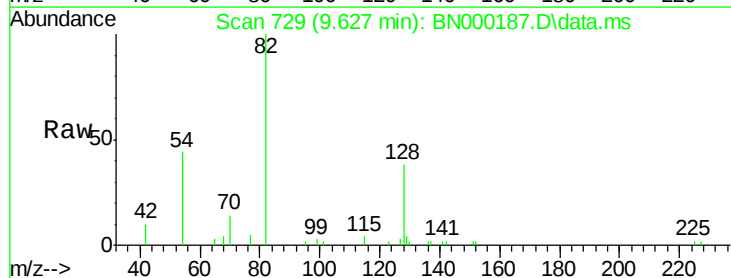
RT: 9.627 min Scan# 729

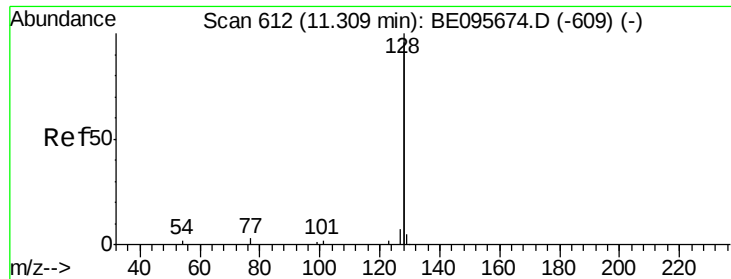
Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tgt Ion: 82	Resp:	4773
Ion Ratio	Lower	Upper
82	100	
128	37.9	150.0 225.0#
54	43.6	154.2 231.4#





#9

Naphthalene

Concen: 0.10 ng

RT: 11.338 min Scan# 864

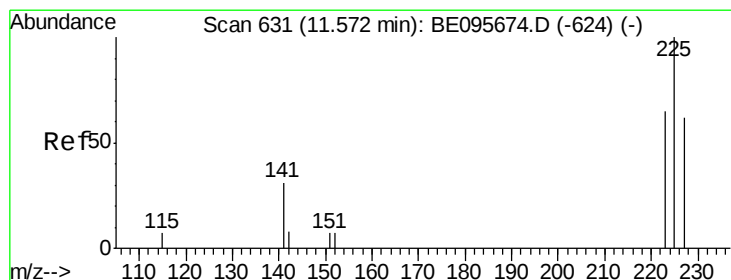
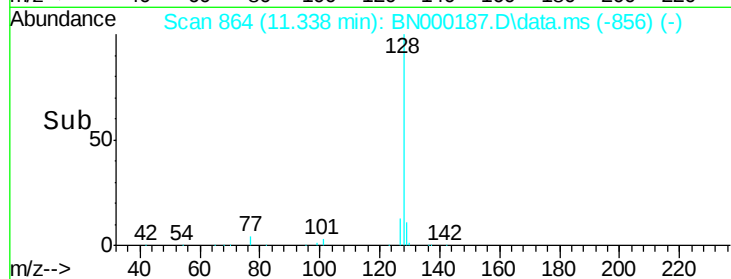
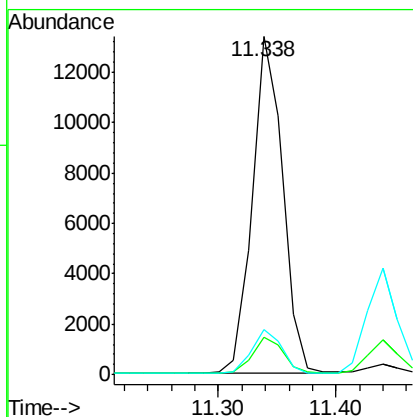
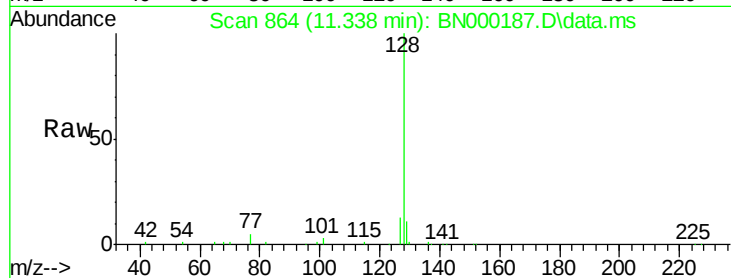
Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion:128 Resp: 24128

Ion	Ratio	Lower	Upper
128	100		
129	11.1	2.6	3.8#
127	13.3	2.8	4.2#



#10

Hexachlorobutadiene

Concen: 0.30 ng

RT: 11.622 min Scan# 902

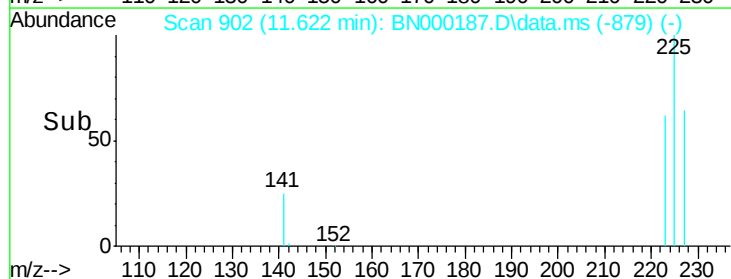
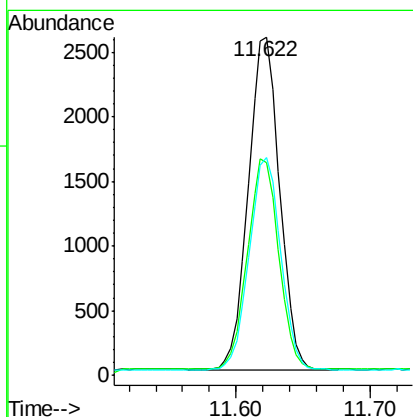
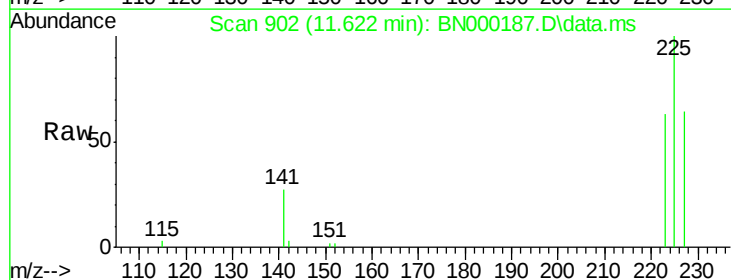
Delta R.T. 0.004 min

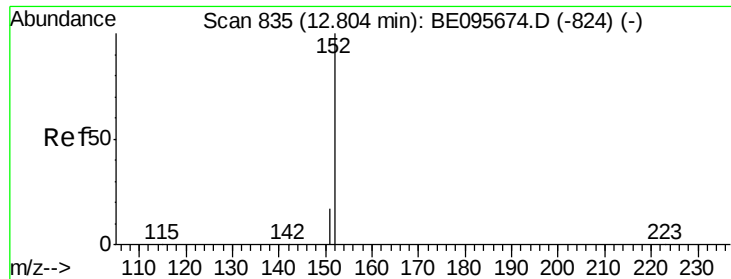
Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tgt Ion:225 Resp: 4154

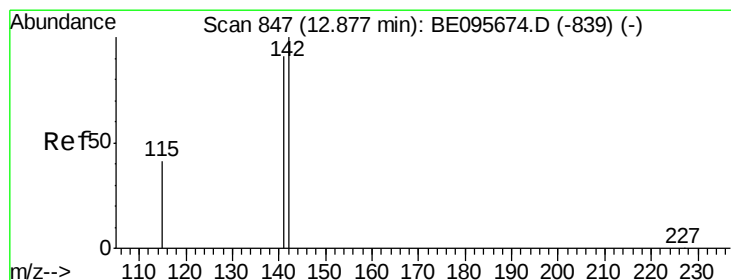
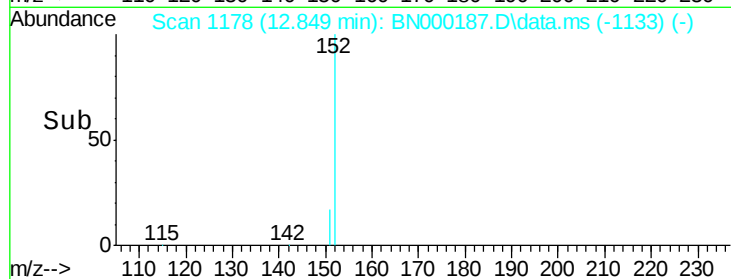
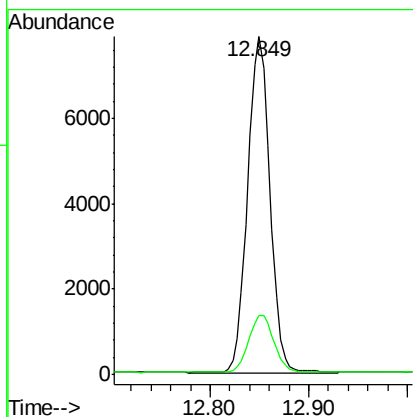
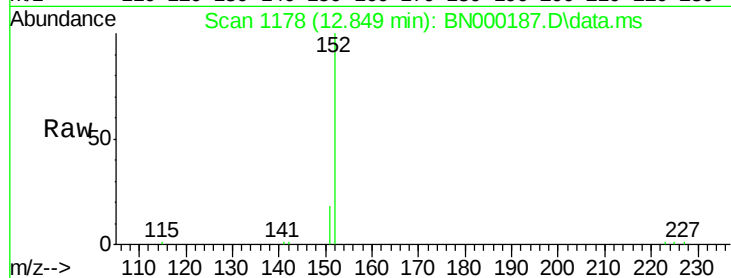
Ion	Ratio	Lower	Upper
225	100		
223	63.1	53.0	79.6
227	64.1	51.4	77.2





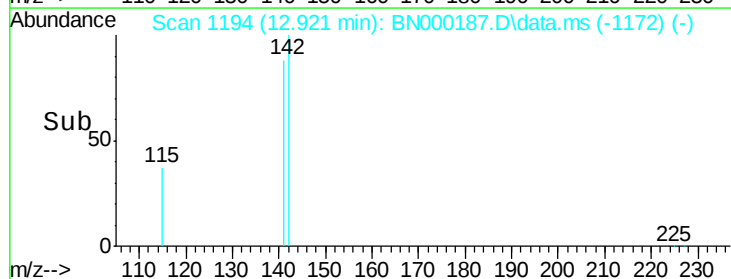
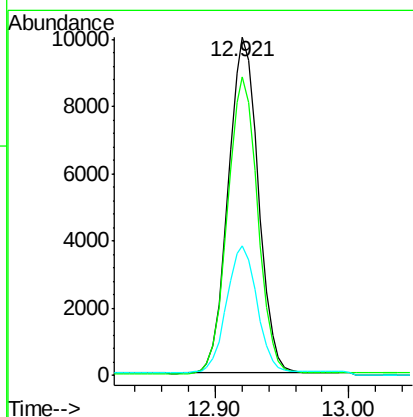
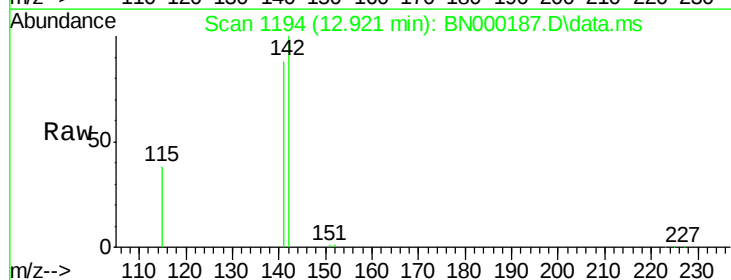
#11
2-Methylnaphthalene-d10
Concen: 0.36 ng
RT: 12.849 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

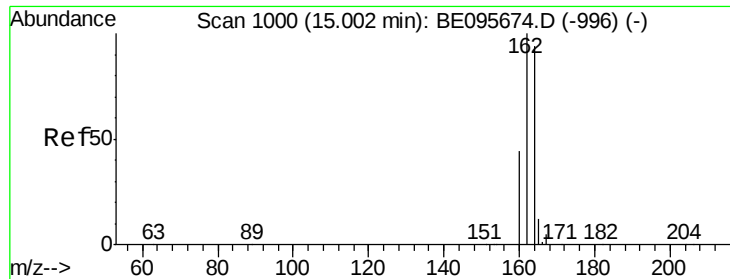
Tot Ion	152	Resp	12359
Ion Ratio	100	Lower	Upper
151	19.3	15.4	23.0



#12
2-Methylnaphthalene
Concen: 0.38 ng
RT: 12.921 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

Tgt Ion	142	Resp	15577
Ion Ratio	100	Lower	Upper
141	88.1	70.4	105.6
115	38.1	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: BN000187.D

Acq: 27 Feb 2018 12:42

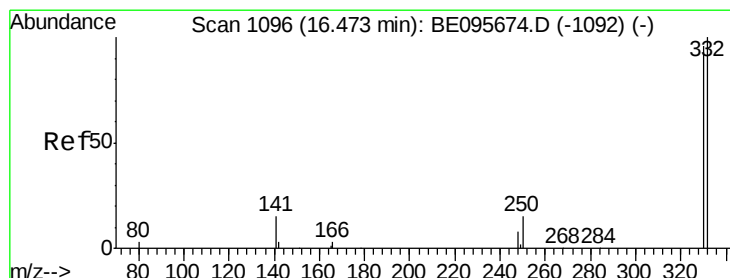
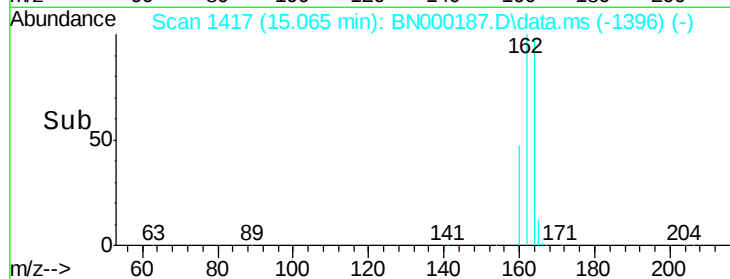
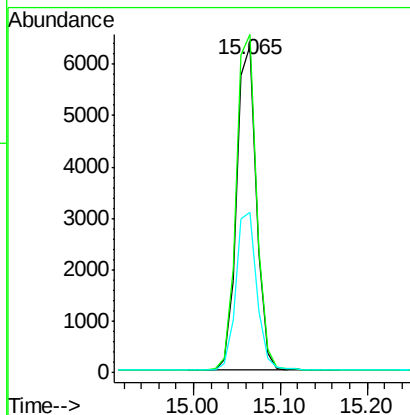
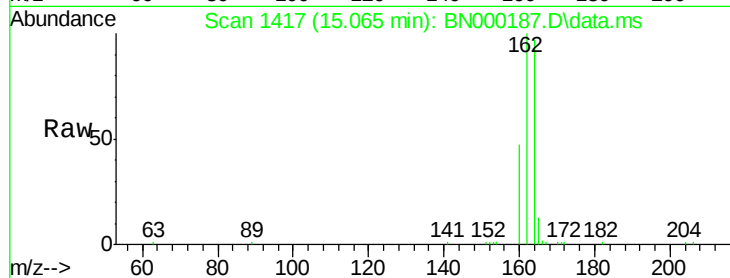
Tot Ion:164 Resp: 10097

Ion Ratio Lower Upper

164 100

162 103.6 83.1 124.7

160 49.0 37.1 55.7



#14

2,4,6-Tribromophenol

Concen: 0.35 ng

RT: 16.533 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

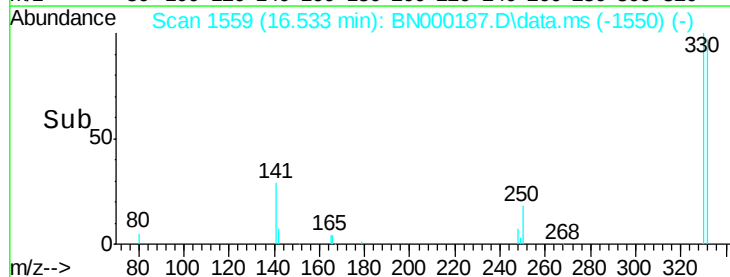
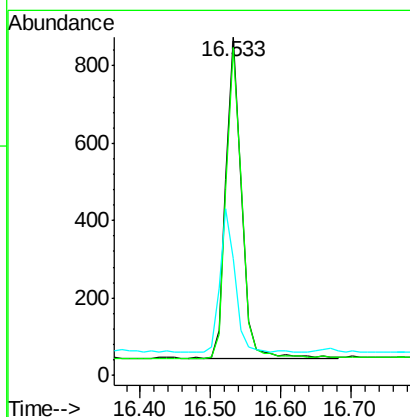
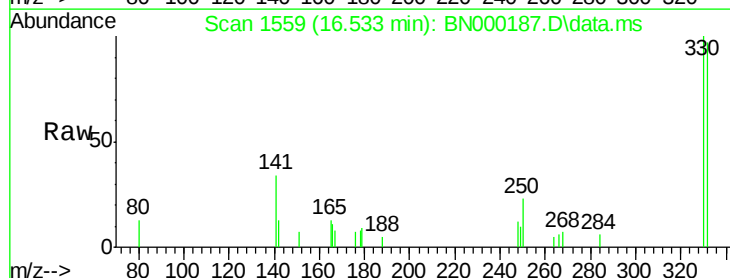
Tgt Ion:330 Resp: 1280

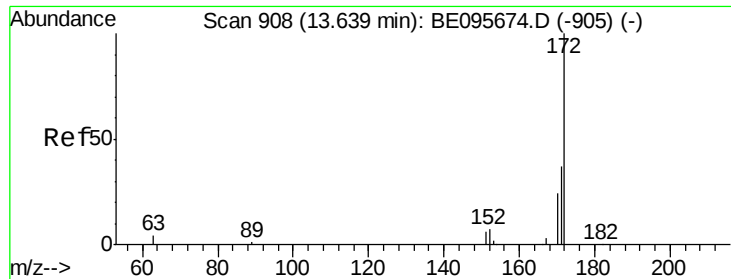
Ion Ratio Lower Upper

330 100

332 97.3 152.7 229.1#

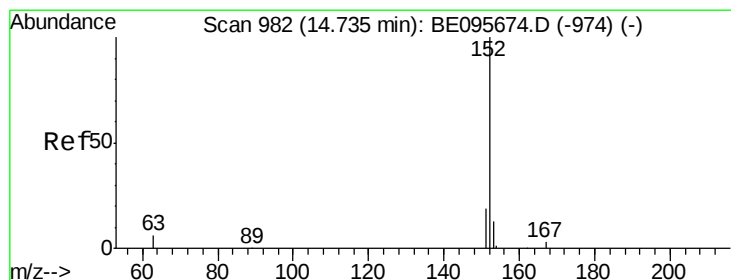
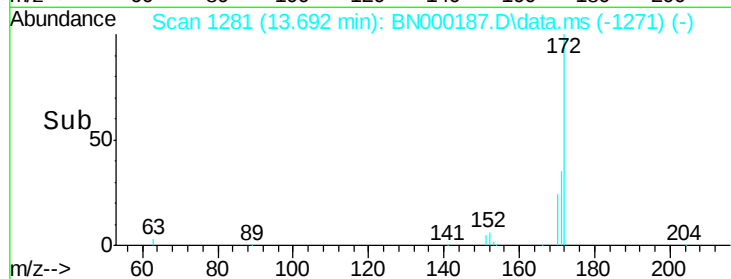
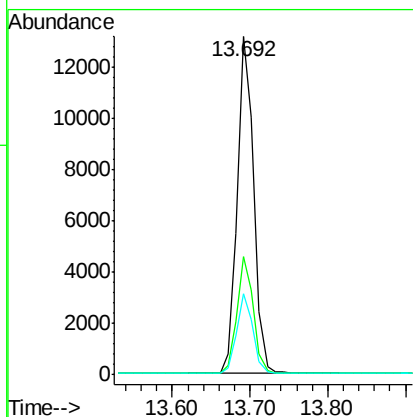
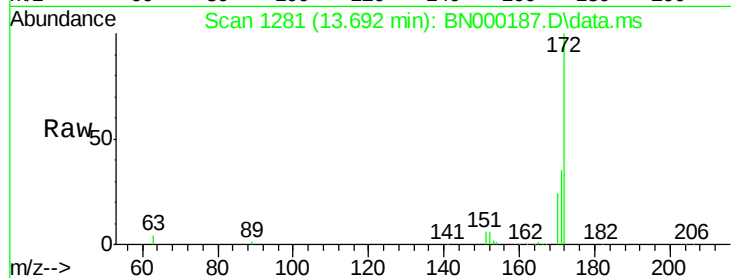
141 43.8 33.7 50.5





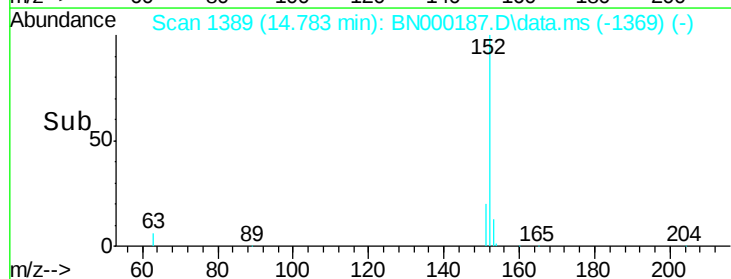
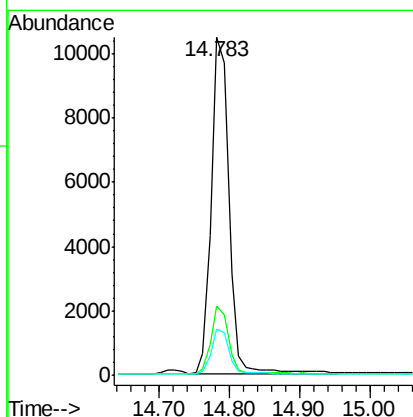
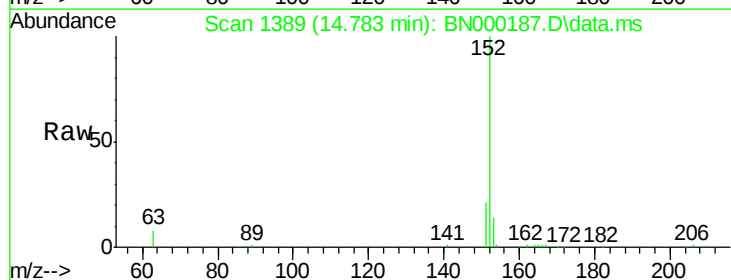
#15
2-Fluorobiphenyl
Concen: 0.43 ng
RT: 13.692 min Scan# 1281
Delta R.T. 0.000 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

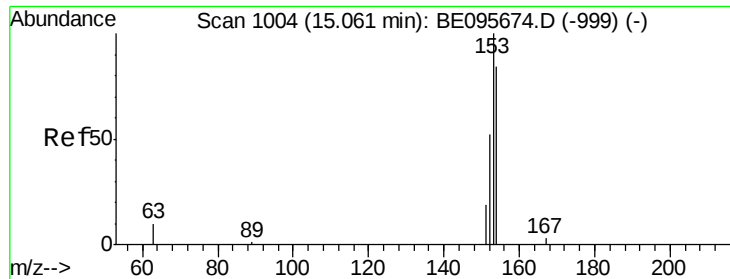
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.9	44.9
170	23.9	21.8	32.8



#16
Acenaphthylene
Concen: 0.32 ng
RT: 14.783 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	13.1	10.5	15.7





#17

Acenaphthene

Concen: 0.42 ng

RT: 15.126 min Scan# 1423

Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

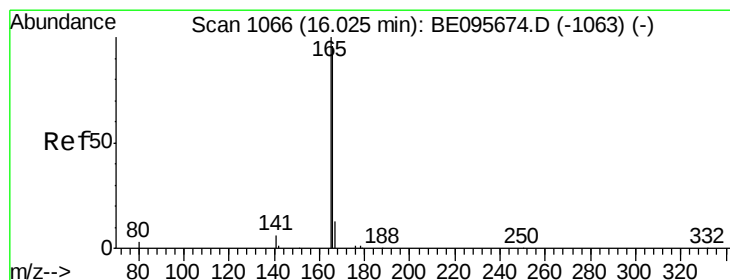
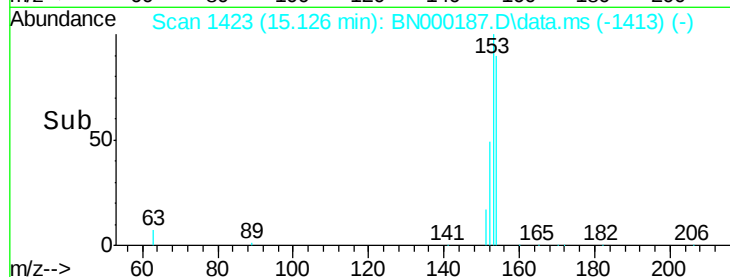
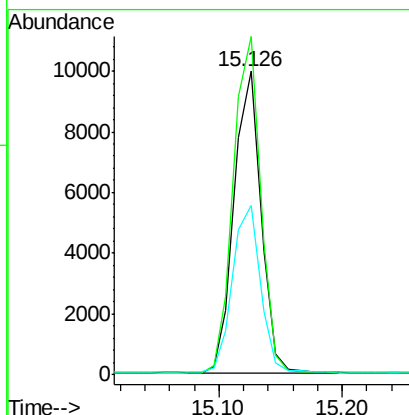
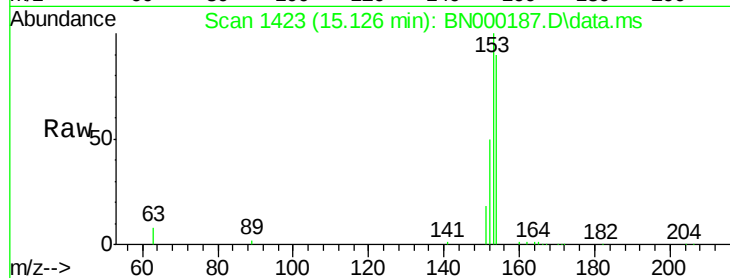
Tot Ion:154 Resp: 14994

Ion Ratio Lower Upper

154 100

153 112.7 89.2 133.8

152 57.2 42.0 63.0



#18

Fluorene

Concen: 0.42 ng

RT: 16.097 min Scan# 1518

Delta R.T. 0.011 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

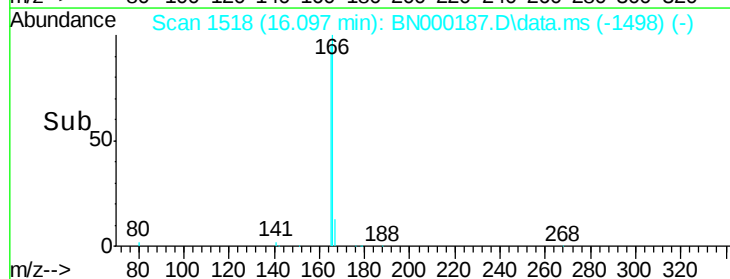
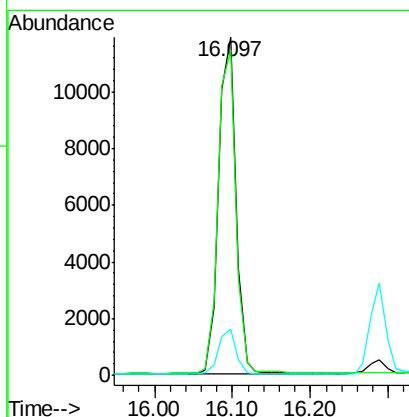
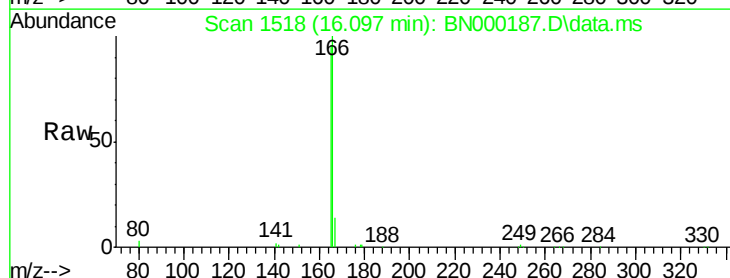
Tgt Ion:166 Resp: 18414

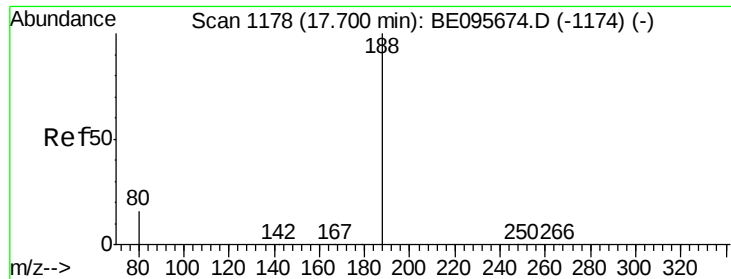
Ion Ratio Lower Upper

166 100

165 98.4 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: BN000187.D

Acq: 27 Feb 2018 12:42

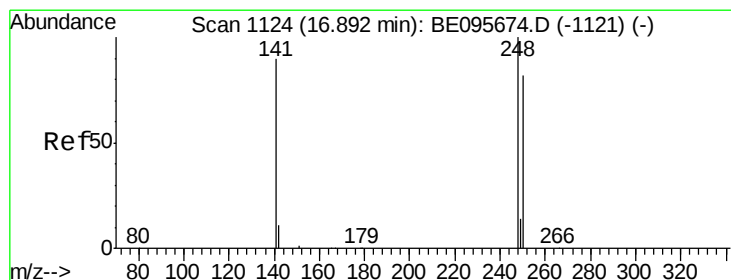
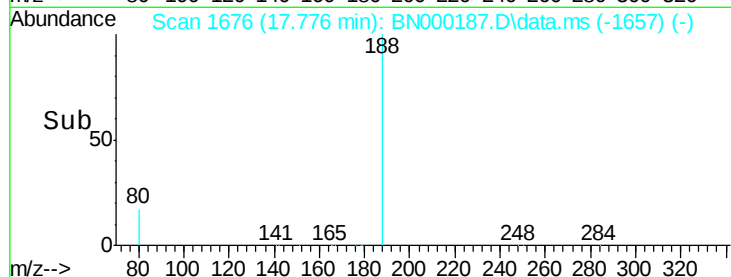
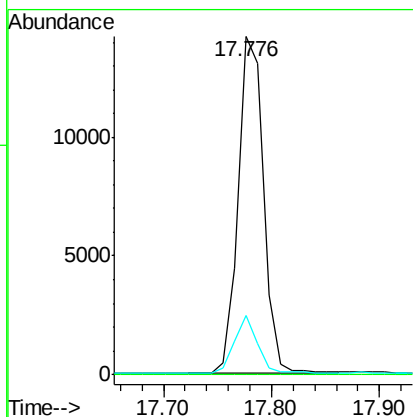
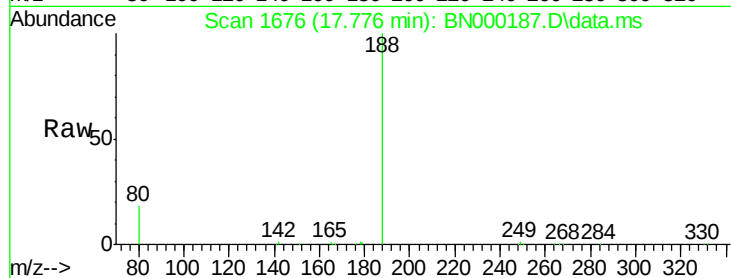
Tot Ion:188 Resp: 23112

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

80 17.5 3.6 5.4#



#20

4-Bromophenyl-phenylether

Concen: 0.36 ng

RT: 16.969 min Scan# 1600

Delta R.T. 0.000 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

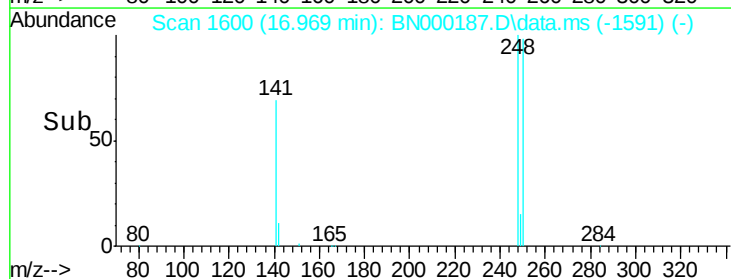
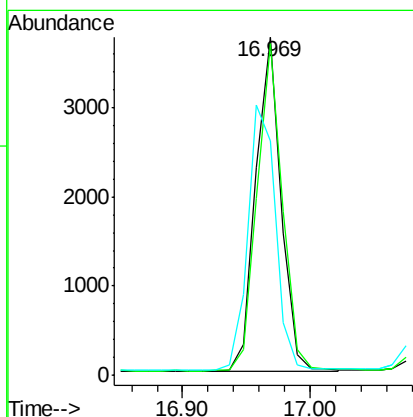
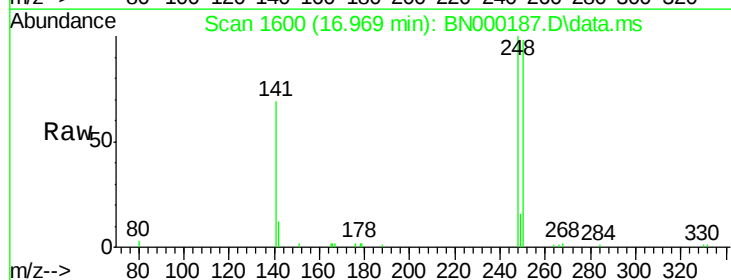
Tgt Ion:248 Resp: 5196

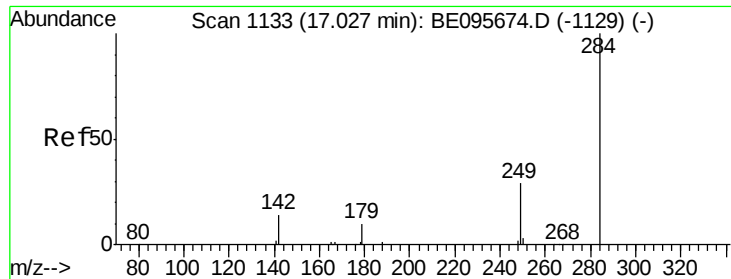
Ion Ratio Lower Upper

248 100

250 98.1 62.7 94.1#

141 69.4 48.2 72.2





#21

Hexachlorobenzene

Concen: 0.47 ng

RT: 17.096 min Scan# 1612

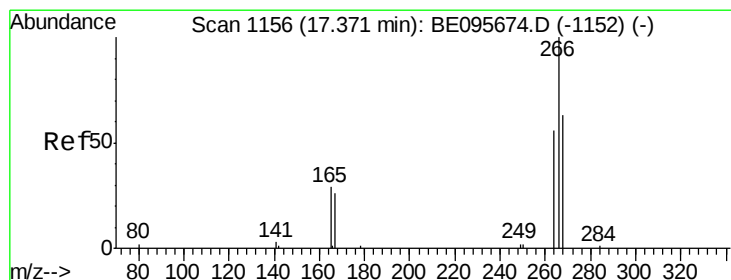
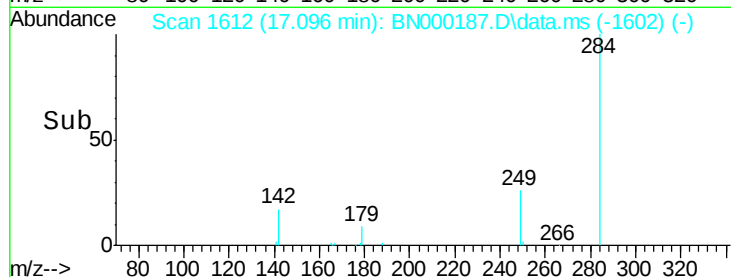
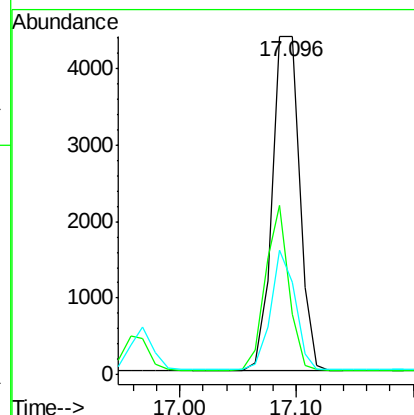
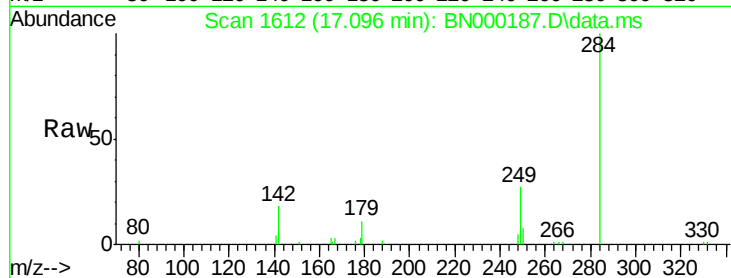
Delta R.T. 0.011 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion:284 Resp: 7132

Ion	Ratio	Lower	Upper
284	100		
142	42.4	22.1	33.1#
249	31.7	34.8	52.2#



#22

Pentachlorophenol

Concen: 0.46 ng

RT: 17.426 min Scan# 1643

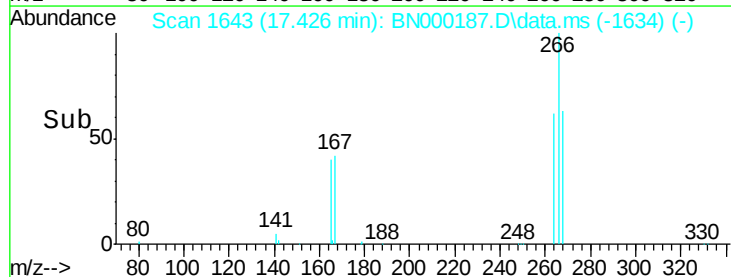
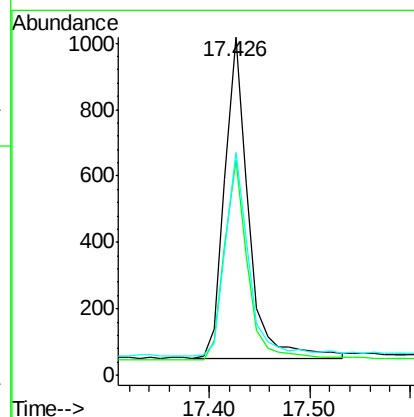
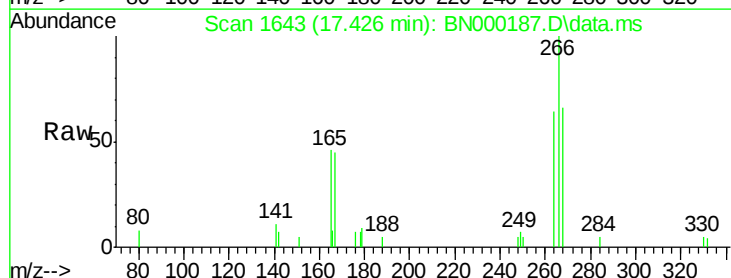
Delta R.T. 0.000 min

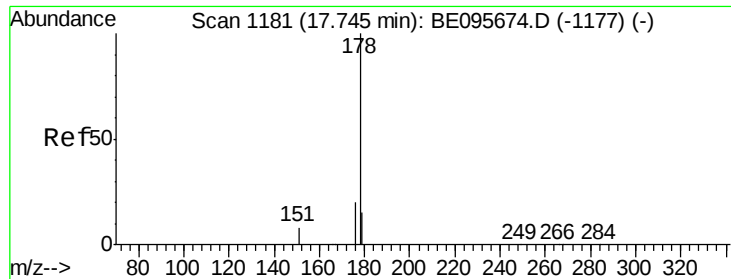
Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tgt Ion:266 Resp: 1587

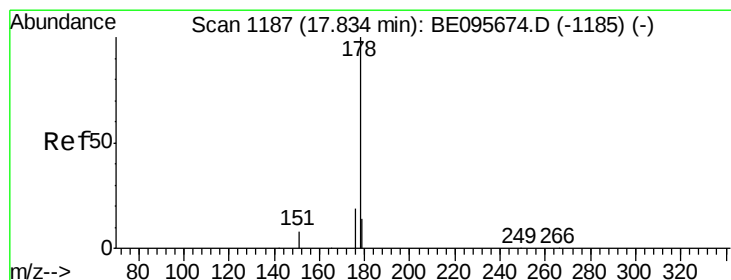
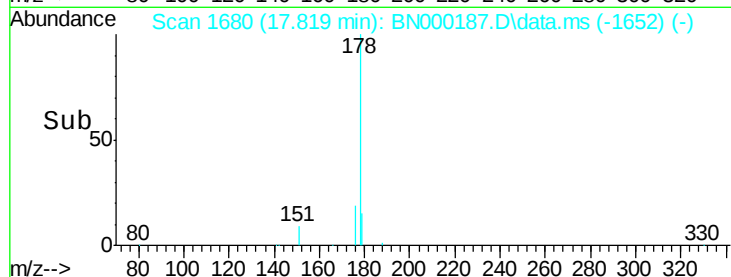
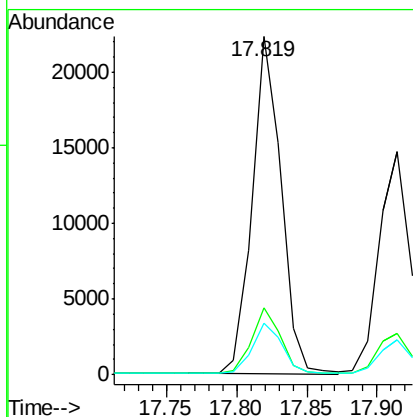
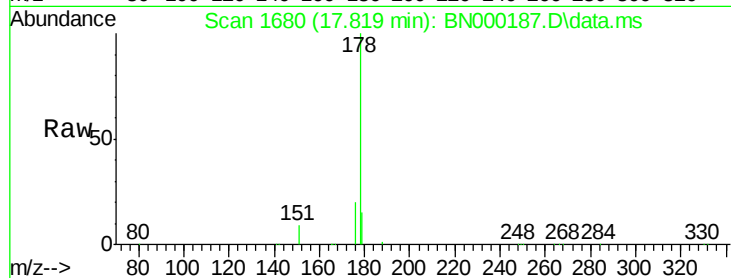
Ion	Ratio	Lower	Upper
266	100		
264	63.8	72.5	108.7#
268	66.0	73.8	110.6#





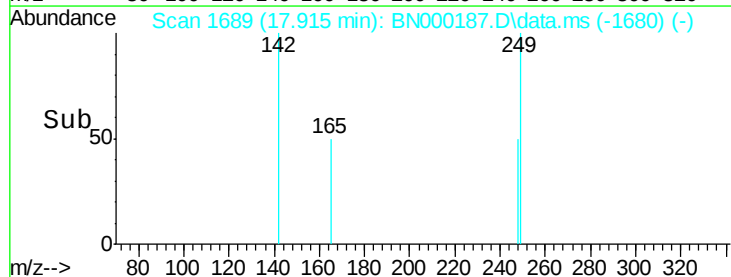
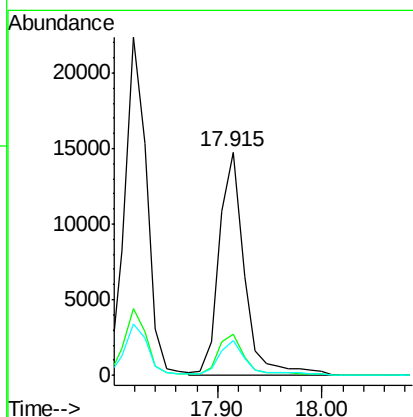
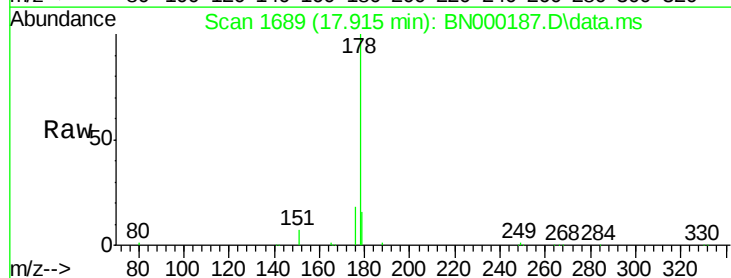
#23
Phenanthrene
Concen: 0.44 ng
RT: 17.819 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

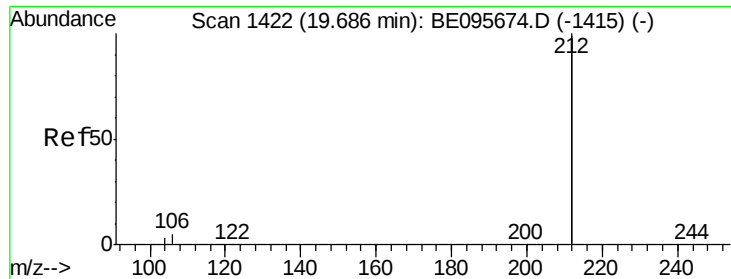
Tot Ion	178	Resp	32120
Ion Ratio	100	Lower	Upper
176	19.5	15.1	22.7
179	15.4	11.8	17.6



#24
Anthracene
Concen: 0.36 ng
RT: 17.915 min Scan# 1689
Delta R.T. 0.000 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

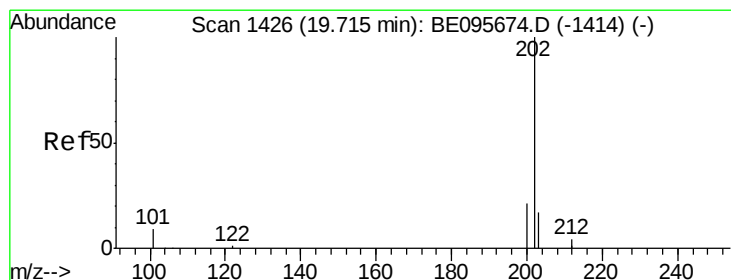
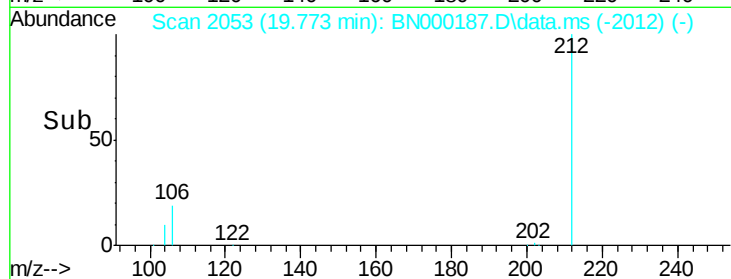
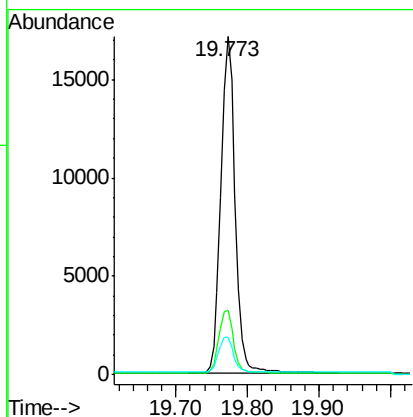
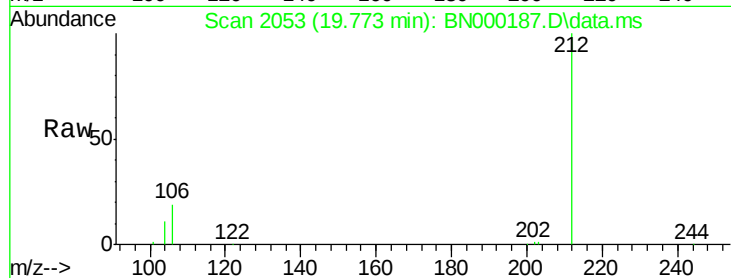
Tgt Ion	178	Resp	24047
Ion Ratio	100	Lower	Upper
176	20.3	12.8	19.2#
179	17.4	13.0	19.6





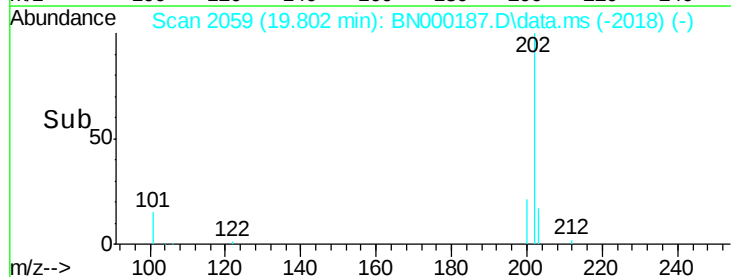
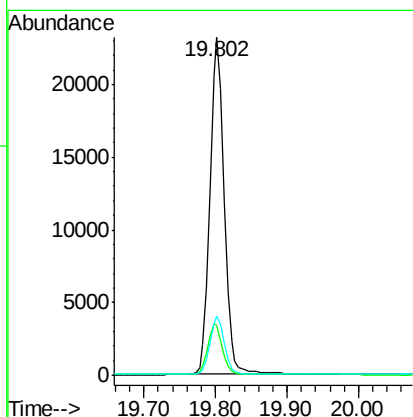
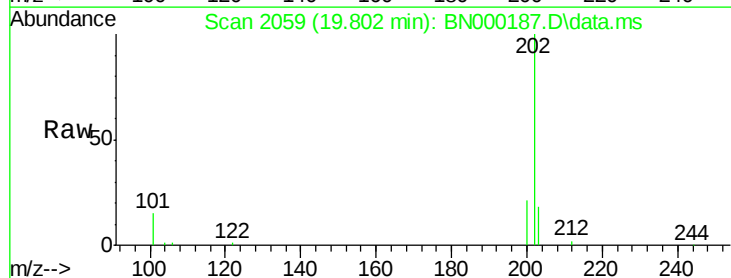
#25
 Fluoranthene-d10
 Concen: 0.08 ng
 RT: 19.773 min Scan# 2053
 Delta R.T. 0.005 min
 Lab File: BN000187.D
 Acq: 27 Feb 2018 12:42

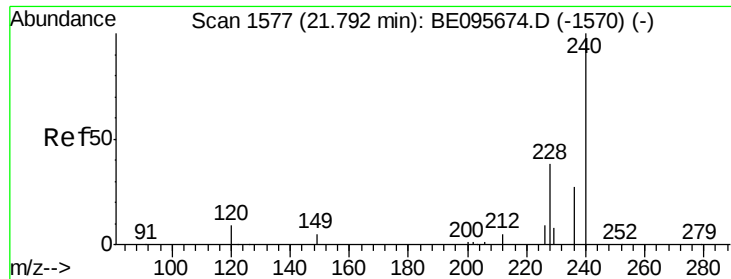
Tot Ion	Ratio	Lower	Upper
212	100		
106	19.0	2.8	4.2#
104	10.7	1.6	2.4#



#26
 Fluoranthene
 Concen: 0.36 ng
 RT: 19.802 min Scan# 2059
 Delta R.T. 0.005 min
 Lab File: BN000187.D
 Acq: 27 Feb 2018 12:42

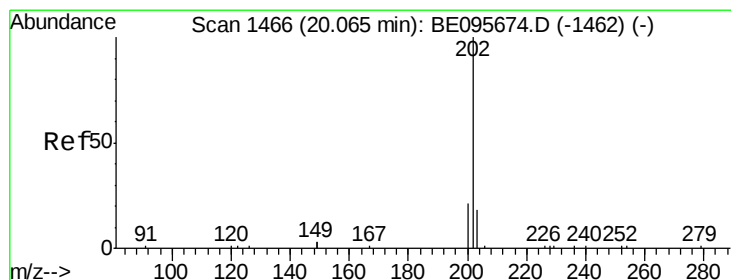
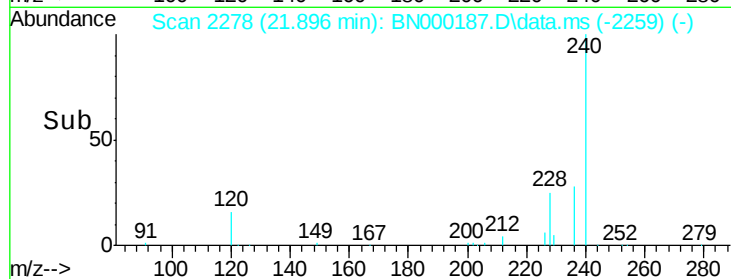
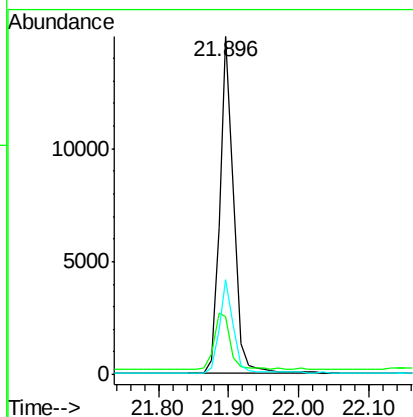
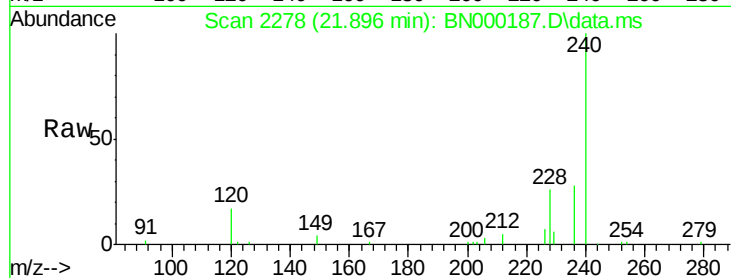
Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.5	9.8	14.8#
203	16.9	13.7	20.5





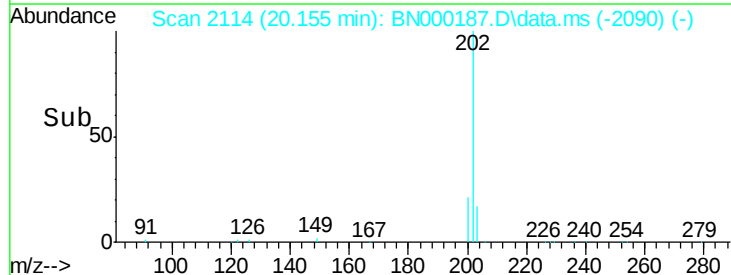
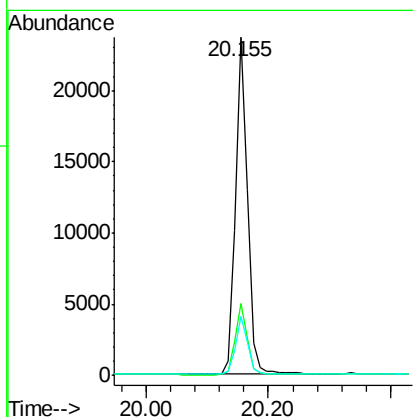
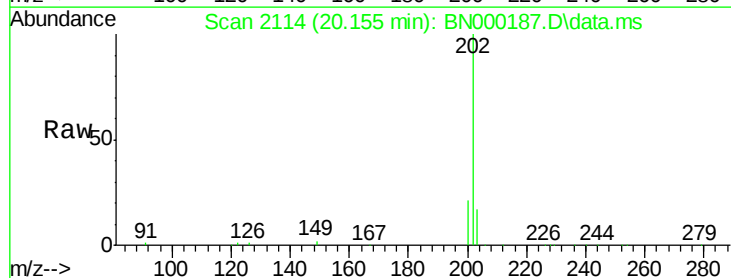
#27
 Chrysene-d12
 Concen: 0.40 ng
 RT: 21.896 min Scan# 2278
 Delta R.T. 0.000 min
 Lab File: BN000187.D
 Acq: 27 Feb 2018 12:42

Tot Ion:240 Resp: 20895
 Ion Ratio Lower Upper
 240 100
 120 17.0 5.5 8.3#
 236 28.1 20.7 31.1



#28
 Pyrene
 Concen: 0.39 ng
 RT: 20.155 min Scan# 2114
 Delta R.T. 0.000 min
 Lab File: BN000187.D
 Acq: 27 Feb 2018 12:42

Tgt Ion:202 Resp: 32946
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.6 25.0
 203 17.3 13.8 20.8





#29

Terphenyl-d14

Concen: 0.36 ng

RT: 20.346 min Scan# 2132

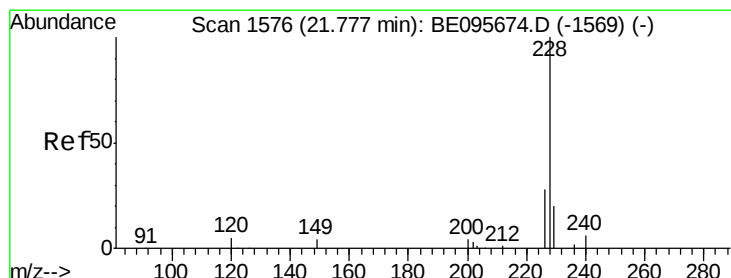
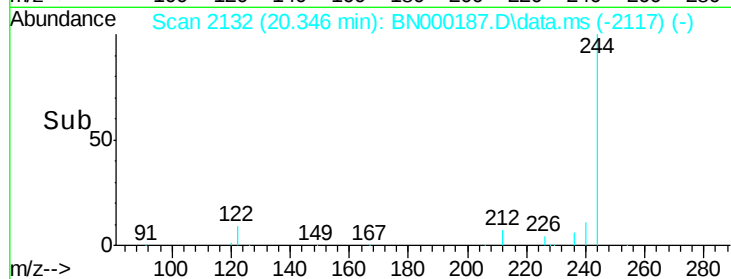
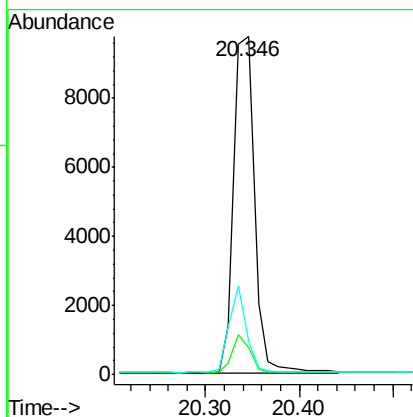
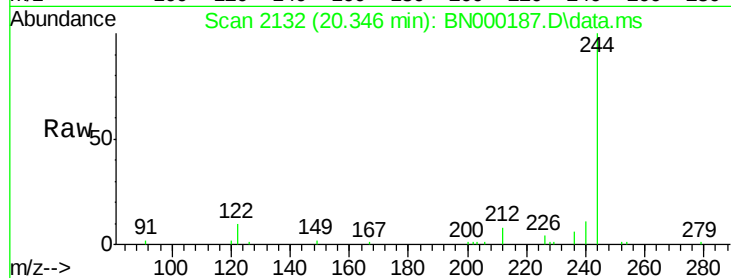
Delta R.T. 0.011 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion:244 Resp: 15091

Ion	Ratio	Lower	Upper
244	100		
212	7.9	25.4	38.0#
122	9.9	8.1	12.1



#30

Benzo(a)anthracene

Concen: 0.37 ng

RT: 21.875 min Scan# 2276

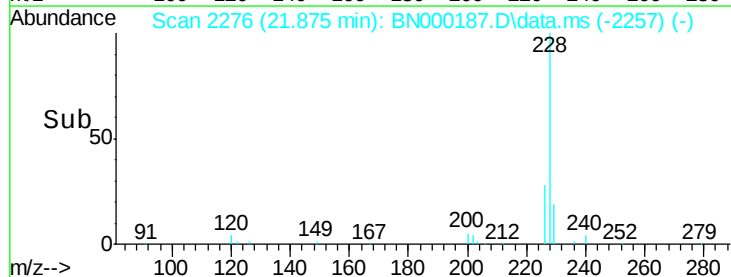
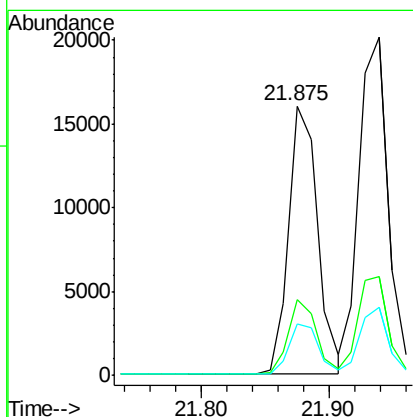
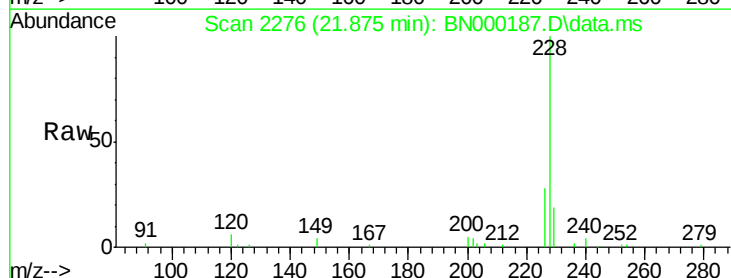
Delta R.T. 0.000 min

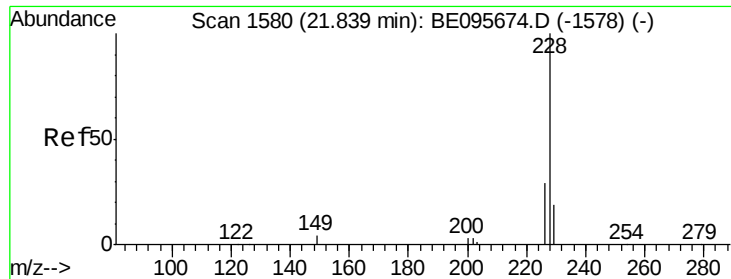
Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tgt Ion:228 Resp: 25161

Ion	Ratio	Lower	Upper
228	100		
226	28.1	24.0	36.0
229	19.1	16.0	24.0





#31

Chrysene

Concen: 0.47 ng

RT: 21.939 min Scan# 2282

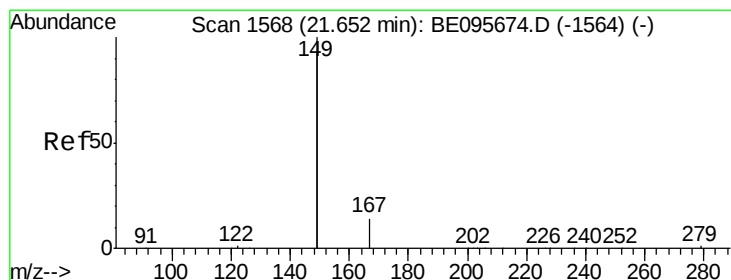
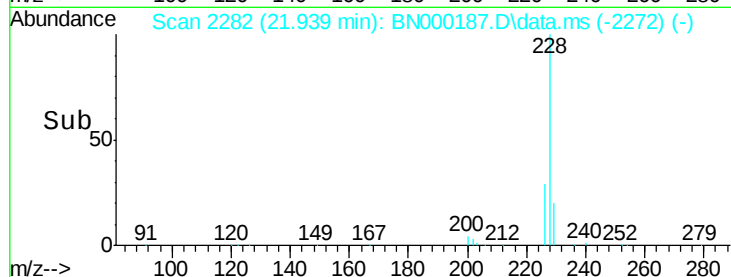
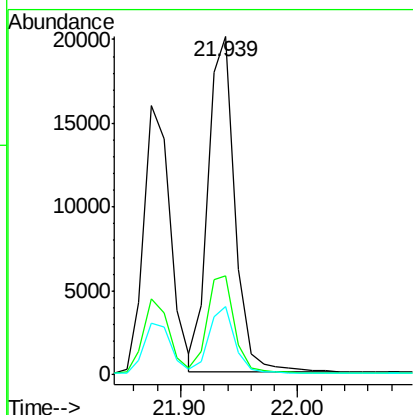
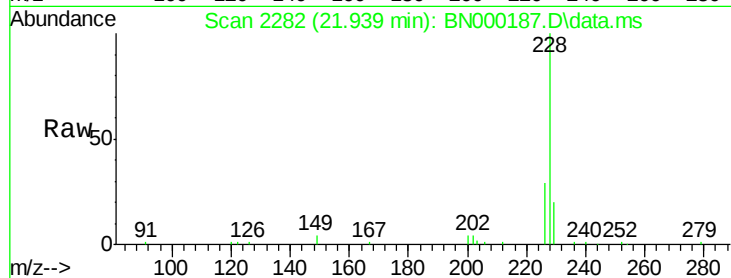
Delta R.T. 0.011 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion:228 Resp: 31783

Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.0	36.0
229	20.1	16.0	24.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.08 ng

RT: 21.769 min Scan# 2266

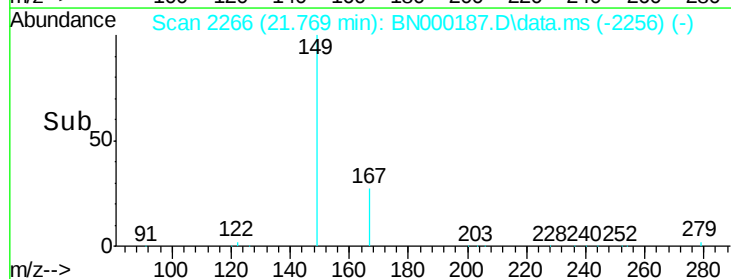
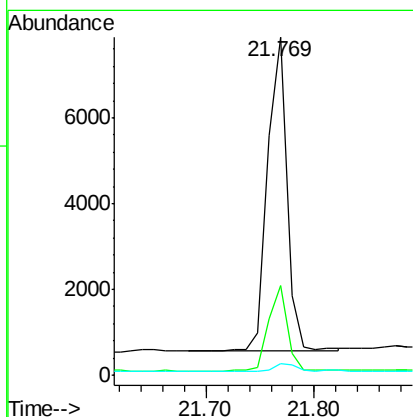
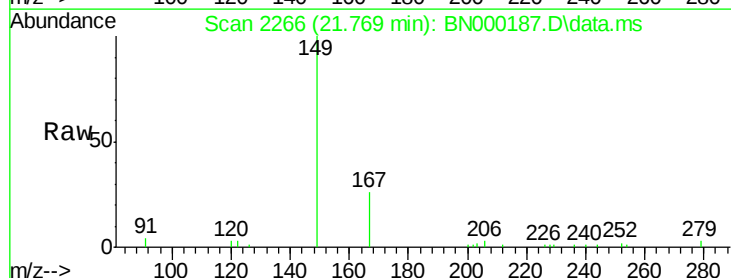
Delta R.T. 0.011 min

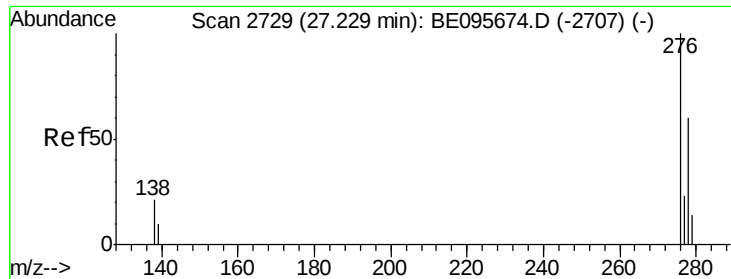
Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tgt Ion:149 Resp: 9196

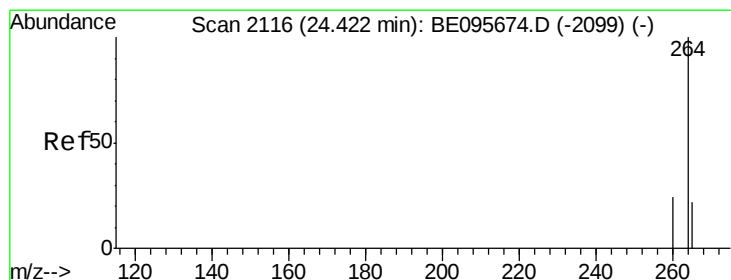
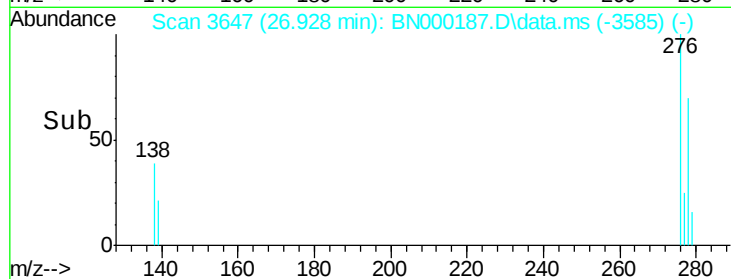
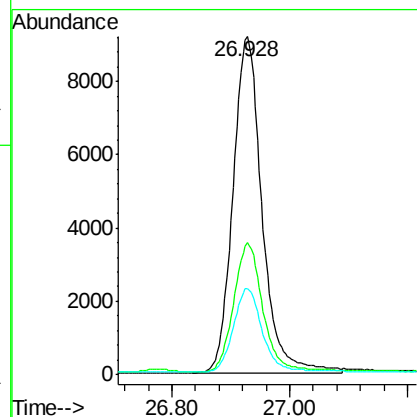
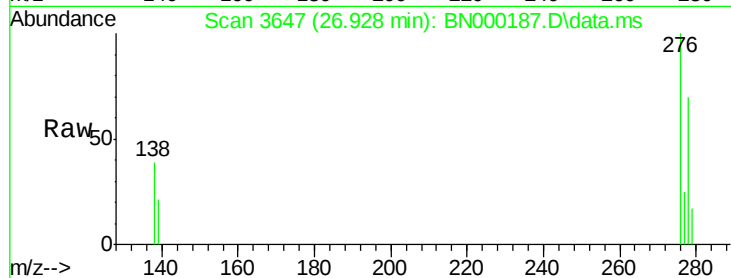
Ion	Ratio	Lower	Upper
149	100		
167	26.1	5.4	8.0#
279	2.3	0.7	1.1#





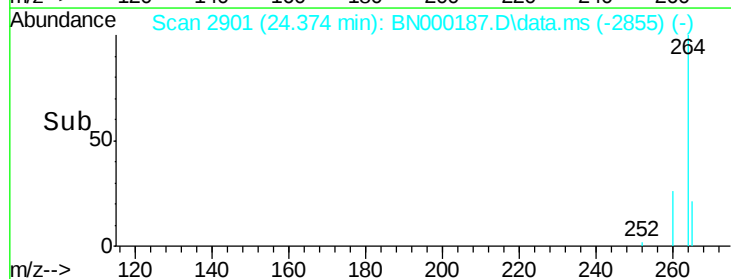
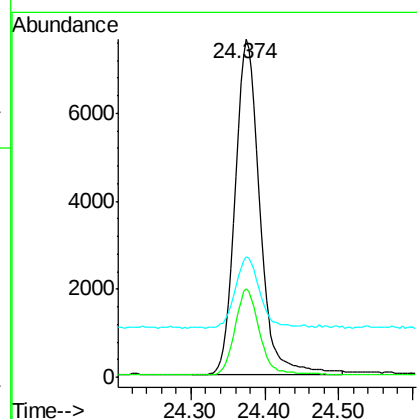
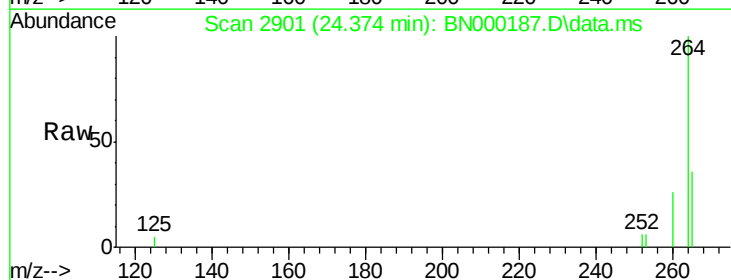
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.48 ng
 RT: 26.928 min Scan# 3647
 Delta R.T. 0.014 min
 Lab File: BN000187.D
 Acq: 27 Feb 2018 12:42

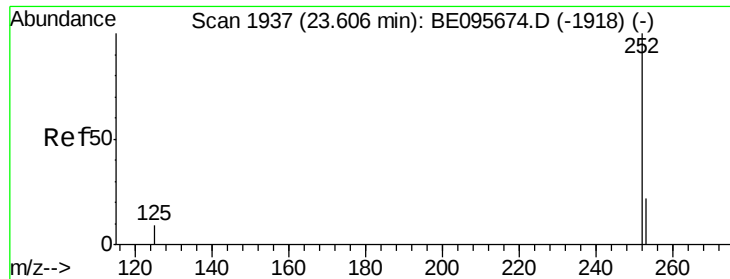
Tot Ion	Ratio	Lower	Upper
276	100		
138	38.6	22.5	33.7#
277	25.1	19.9	29.9



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 24.374 min Scan# 2901
 Delta R.T. 0.007 min
 Lab File: BN000187.D
 Acq: 27 Feb 2018 12:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.3	20.5	30.7
265	35.5	22.8	34.2#





#35

Benzo(b)fluoranthene

Concen: 0.52 ng

RT: 23.618 min Scan# 2680

Delta R.T. 0.007 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

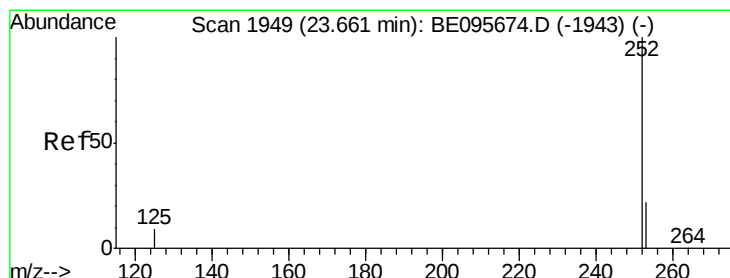
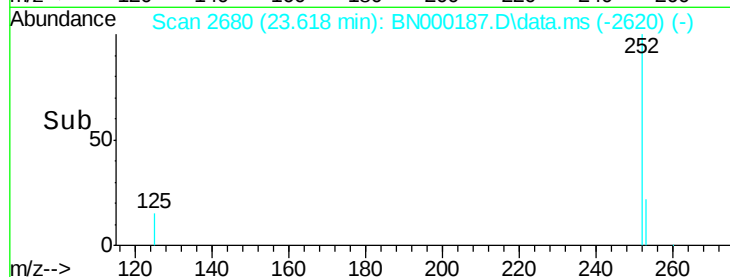
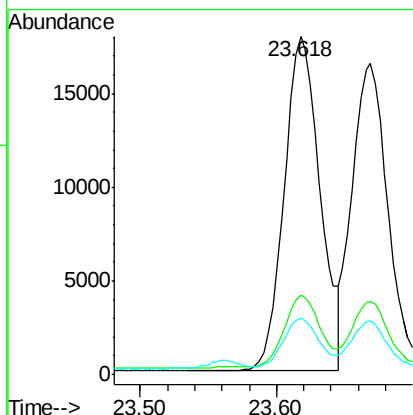
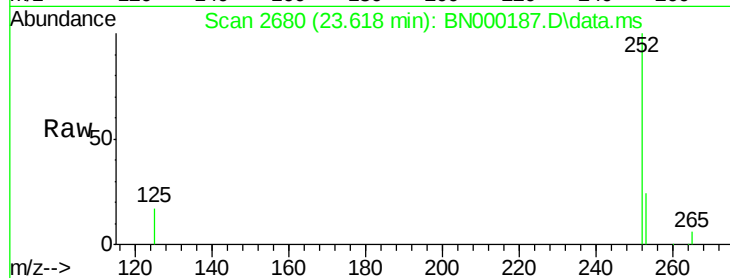
Tot Ion:252 Resp: 32646

Ion Ratio Lower Upper

252 100

253 23.7 20.0 30.0

125 16.8 16.0 24.0



#36

Benzo(k)fluoranthene

Concen: 0.49 ng

RT: 23.669 min Scan# 2695

Delta R.T. 0.010 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

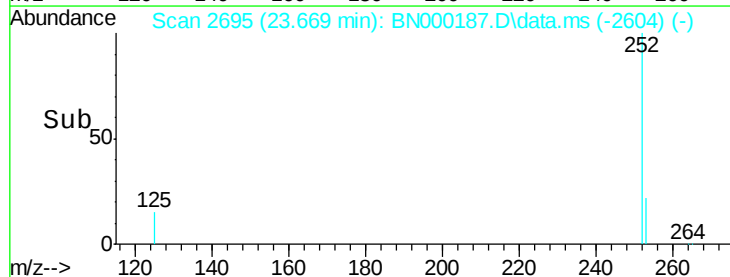
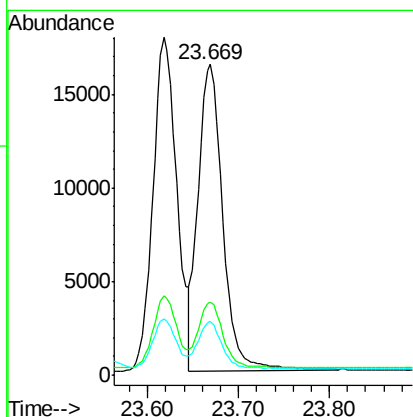
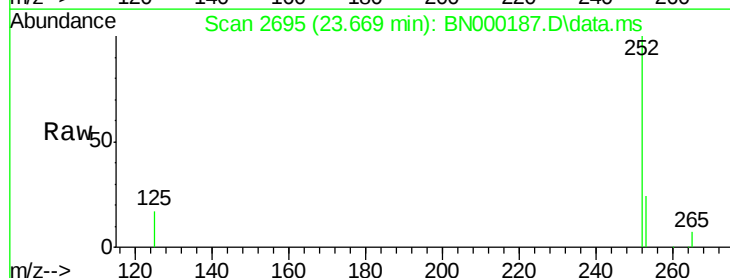
Tgt Ion:252 Resp: 30802

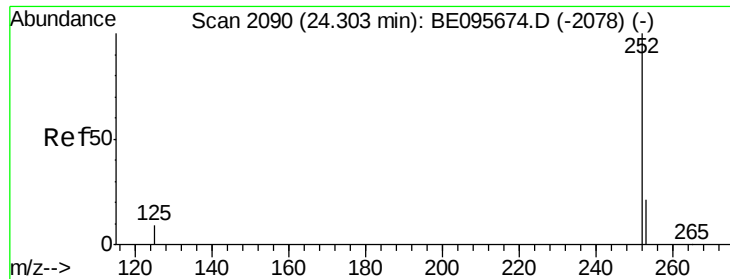
Ion Ratio Lower Upper

252 100

253 23.6 16.0 24.0

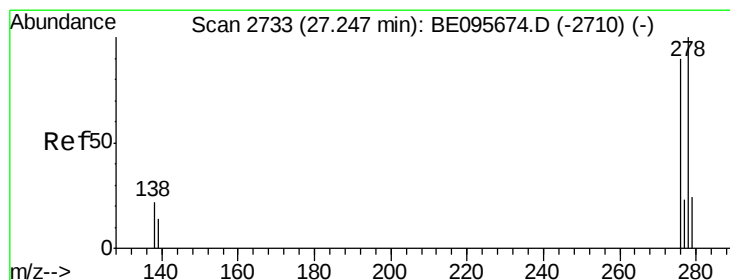
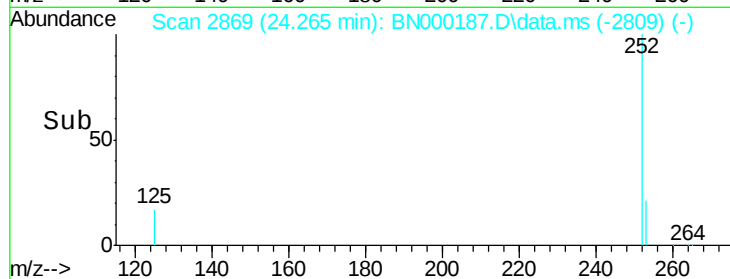
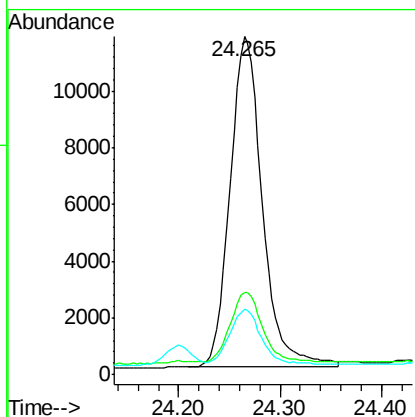
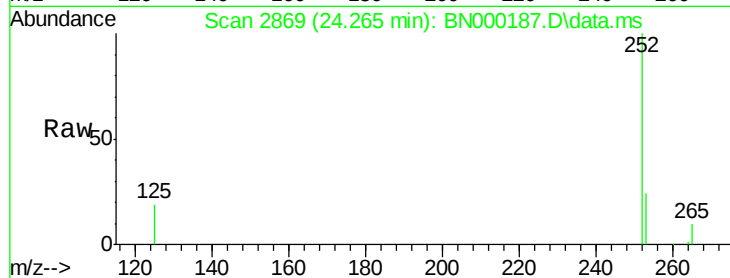
125 17.2 8.0 12.0#





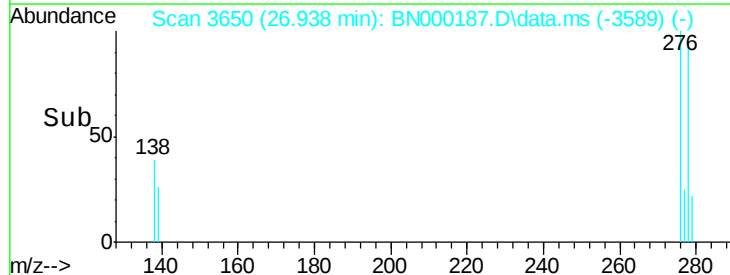
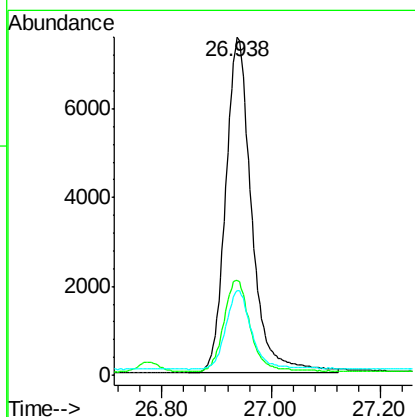
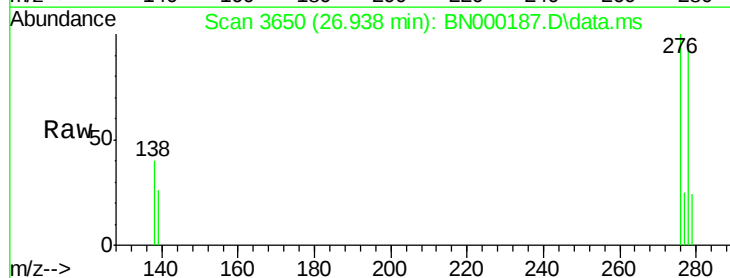
#37
Benzo(a)pyrene
Concen: 0.46 ng
RT: 24.265 min Scan# 2869
Delta R.T. 0.007 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

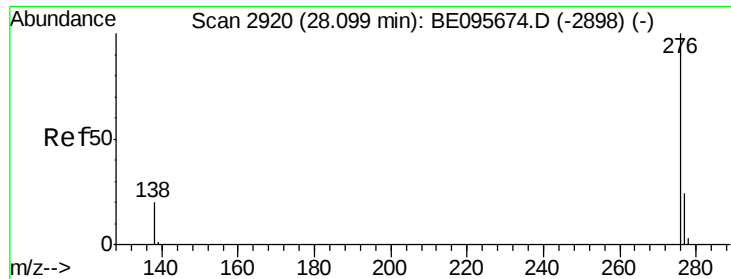
Tot Ion:252 Resp: 26004
Ion Ratio Lower Upper
252 100
253 24.1 16.0 24.0#
125 19.2 12.0 18.0#



#38
Dibenzo(a,h)anthracene
Concen: 0.50 ng
RT: 26.938 min Scan# 3650
Delta R.T. 0.010 min
Lab File: BN000187.D
Acq: 27 Feb 2018 12:42

Tgt Ion:278 Resp: 25087
Ion Ratio Lower Upper
278 100
139 28.2 16.0 24.0#
279 25.2 20.0 30.0





#39

Benzo(a,h,i)perylene

Concen: 0.51 ng

RT: 27.712 min Scan# 3876

Delta R.T. 0.010 min

Lab File: BN000187.D

Acq: 27 Feb 2018 12:42

Tot Ion: 276 Resp: 27418

Ion Ratio Lower Upper

276 100

277 24.2 16.0 24.0#

138 34.7 20.0 30.0#

