

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042519\
 Data File : BE099361.D
 Acq On : 25 Apr 2019 15:02
 Operator : JU/SJ
 Sample : K2534-04
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-073-SW067-042219

Quant Time: Apr 26 00:42:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 19 06:51:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	4256	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	17104	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	11937	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	31722	0.40	ng	0.00
27) Chrysene-d12	21.37	240	35389	0.40	ng	0.00
34) Perylene-d12	23.86	264	39789	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.40	112	3152	0.30	ng	0.01
5) Phenol-d6	6.98	99	4807	0.32	ng	0.00
8) Nitrobenzene-d5	8.96	82	3769	0.28	ng	0.00
11) 2-Methylnaphthalene-d10	12.21	152	7099	0.24	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	2145	0.54	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	10764	0.23	ng	0.00
25) Fluoranthene-d10	19.22	212	83373	0.22	ng	0.00
29) Terphenyl-d14	19.82	244	16513	0.24	ng	0.00

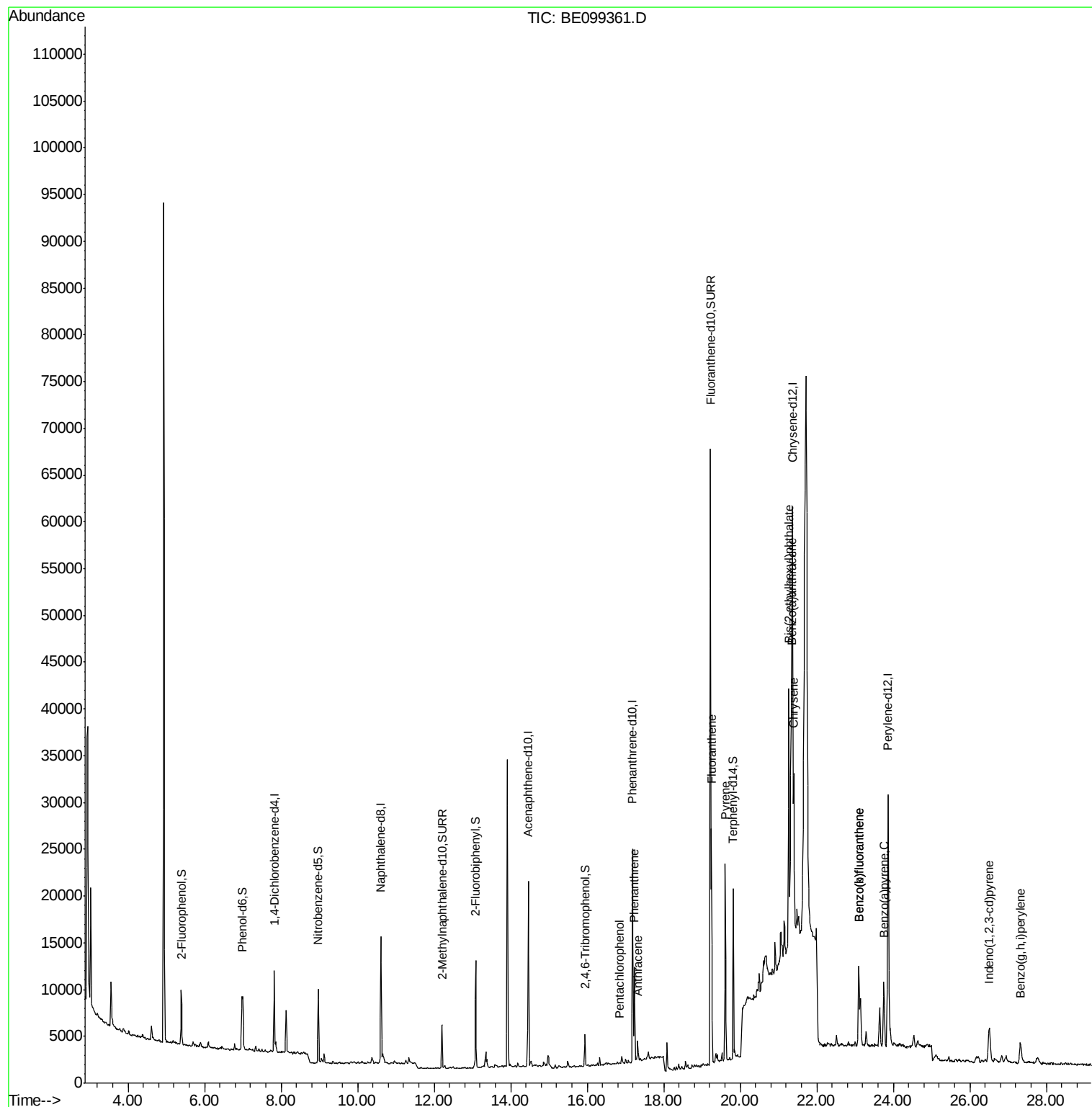
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Pentachlorophenol	16.84	266	29	0.224	ng	# 65
23) Phenanthrene	17.23	178	10703	0.127	ng	# 98
24) Anthracene	17.32	178	2215	0.030	ng	# 90
26) Fluoranthene	19.25	202	22572	0.201	ng	# 99
28) Pyrene	19.61	202	19912	0.191	ng	# 95
30) Benzo(a)anthracene	21.34	228	13502	0.130	ng	# 87
31) Chrysene	21.40	228	12354	0.112	ng	# 85
32) Bis(2-ethylhexyl)phthalate	21.27	149	34414	0.364	ng	100
33) Indeno(1,2,3-cd)pyrene	26.51	276	7386	0.068	ng	# 92
35) Benzo(b)fluoranthene	23.10	252	14725	0.121	ng	# 61
36) Benzo(k)fluoranthene	23.10	252	14725	0.121	ng	# 64
37) Benzo(a)pyrene	23.75	252	10471	0.096	ng	# 64
39) Benzo(a,h,i)perylene	27.32	276	6273	0.055	ng	# 72

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. -0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219

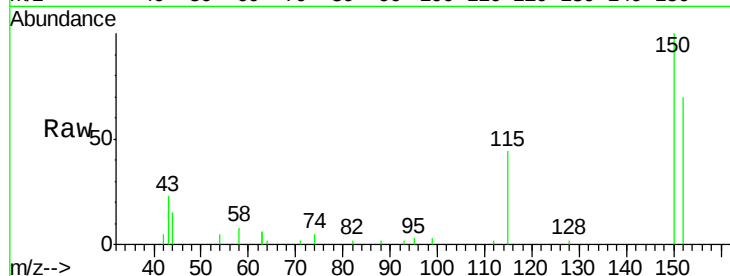
Tot Ion:152 Resp: 4256

Ion Ratio Lower Upper

152 100

150 142.5 119.5 179.3

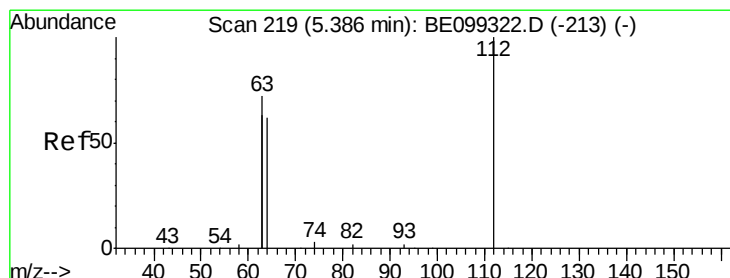
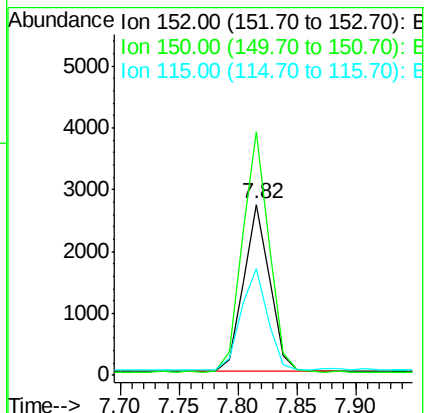
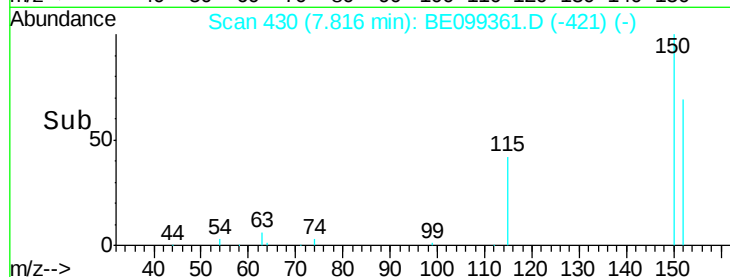
115 62.7 47.5 71.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.303 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

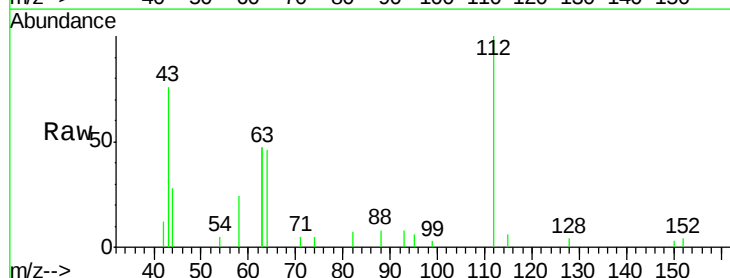
Tgt Ion:112 Resp: 3152

Ion Ratio Lower Upper

112 100

64 57.3 44.9 67.3

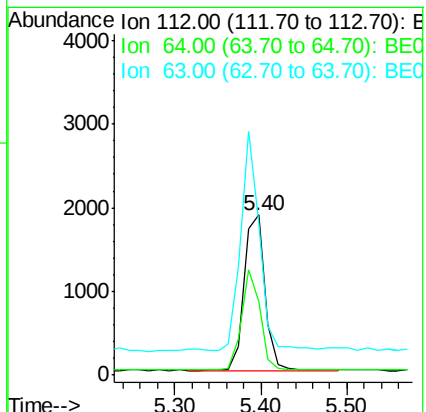
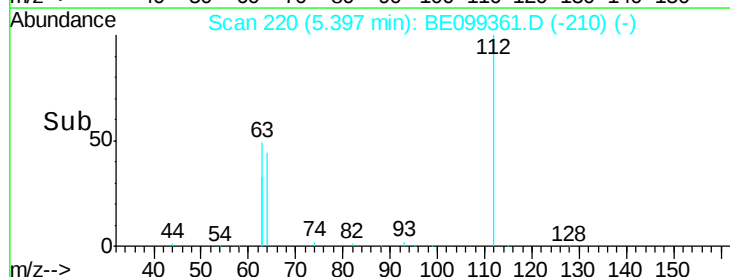
63 125.7 97.4 146.0

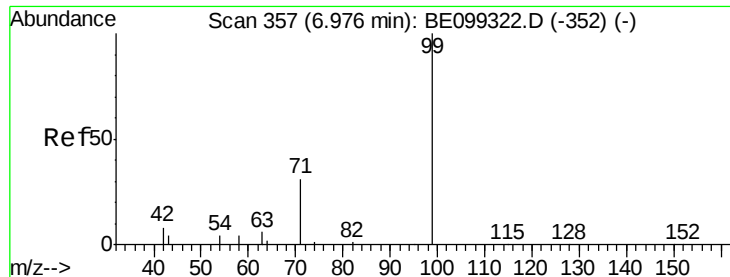


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.324 ng

RT: 6.98 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219

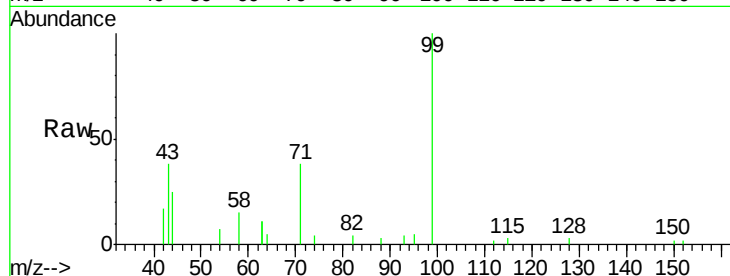
Tot Ion: 99 Resp: 4807

Ion Ratio Lower Upper

99 100

42 20.6 11.7 17.5#

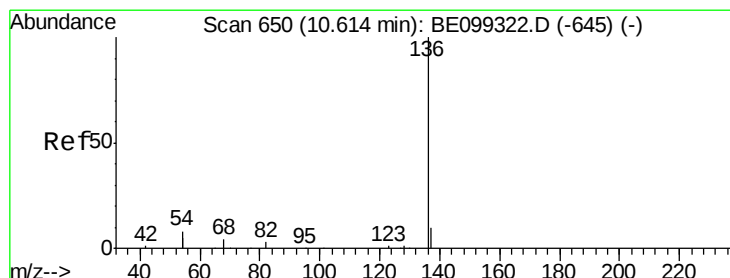
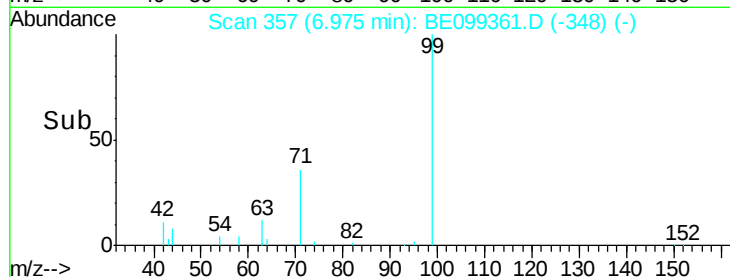
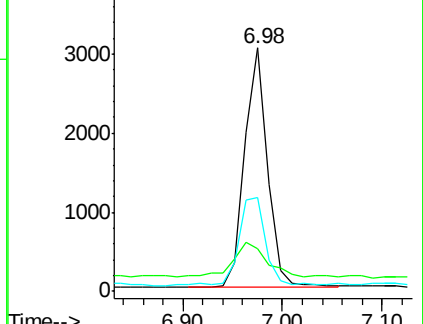
71 42.2 29.6 44.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Tgt Ion: 136 Resp: 17104

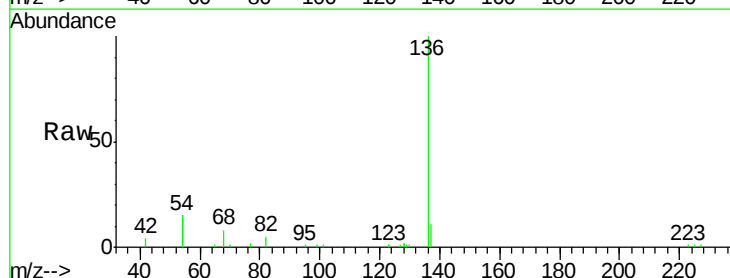
Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

54 30.4 23.8 35.8

68 7.8 6.4 9.6

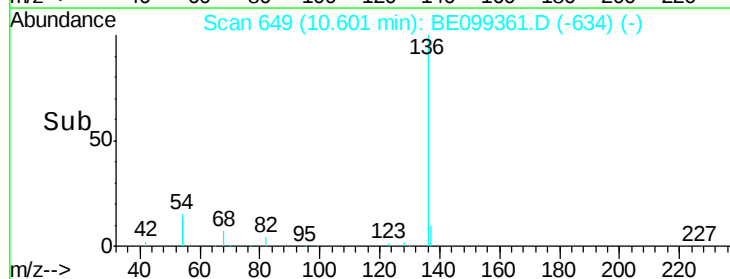
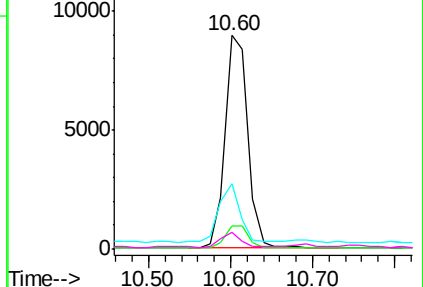


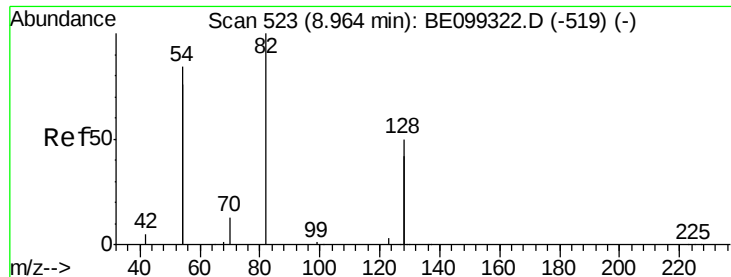
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 0.284 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

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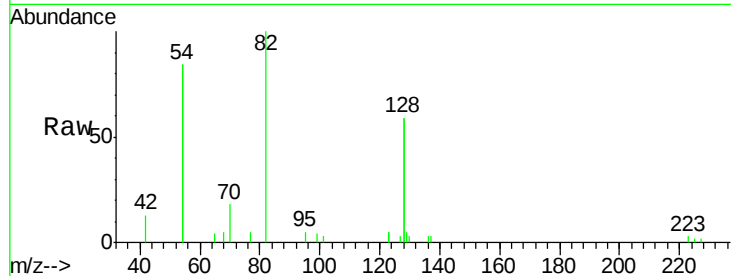
Tot Ion: 82 Resp: 3769

Ion Ratio Lower Upper

82 100

128 118.2 91.7 137.5

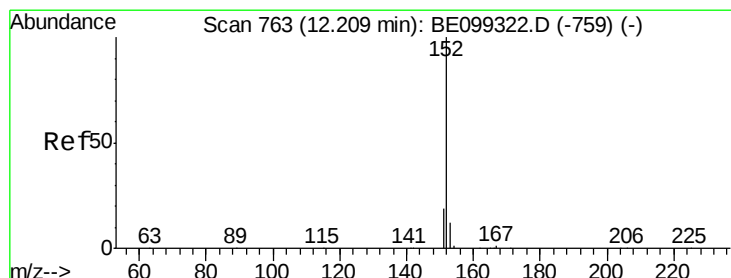
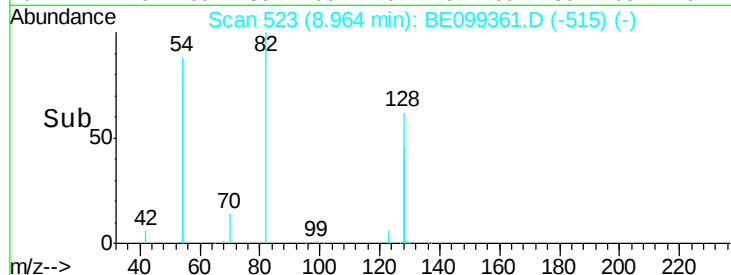
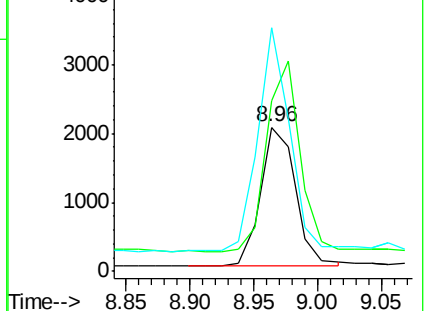
54 168.8 122.8 184.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.235 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.01 min

Lab File: BE099361.D

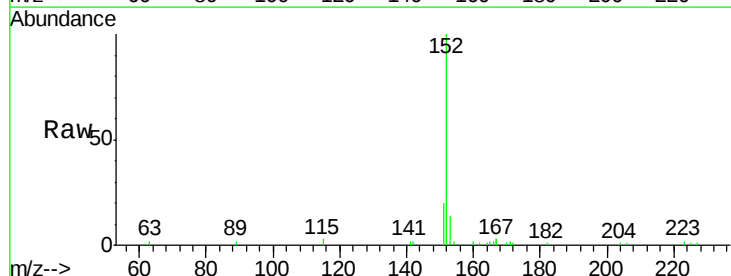
Acq: 25 Apr 2019 15:02

Tgt Ion: 152 Resp: 7099

Ion Ratio Lower Upper

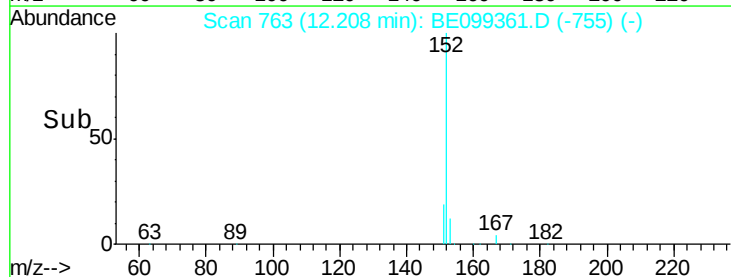
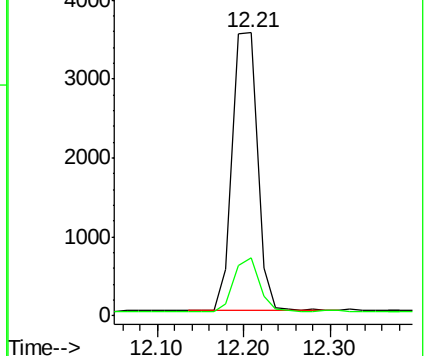
152 100

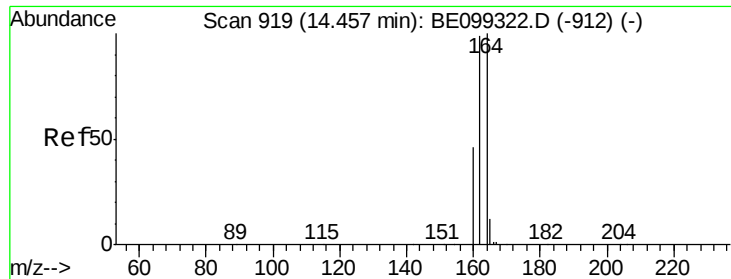
151 19.1 14.9 22.3



Abundance Ion 152.00 (151.70 to 152.70): BE0

Ion 151.00 (150.70 to 151.70): BE0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

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EXT-073-SW067-042219

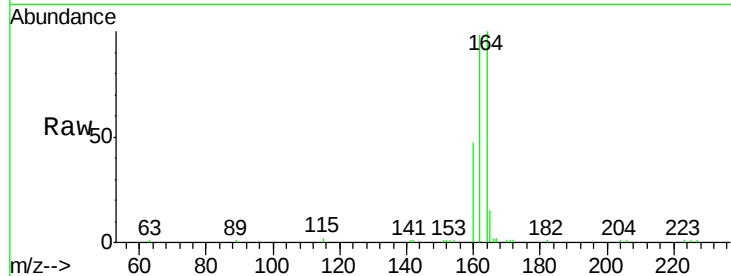
Tot Ion:164 Resp: 11937

Ion Ratio Lower Upper

164 100

162 98.5 77.8 116.6

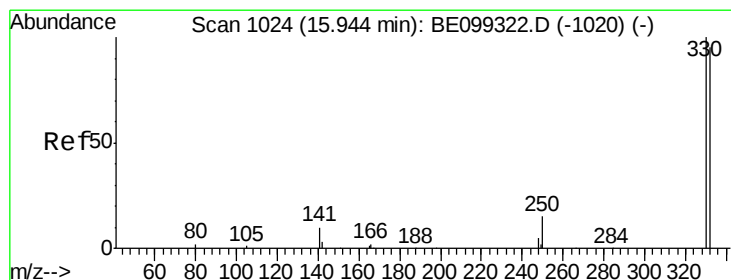
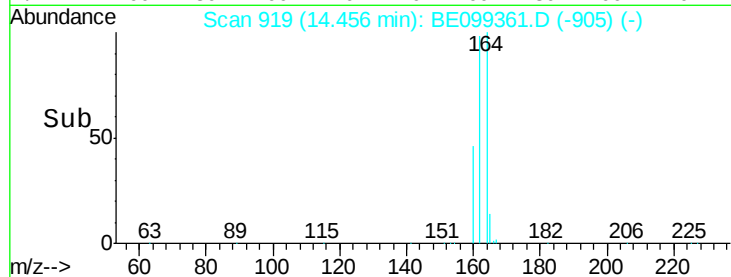
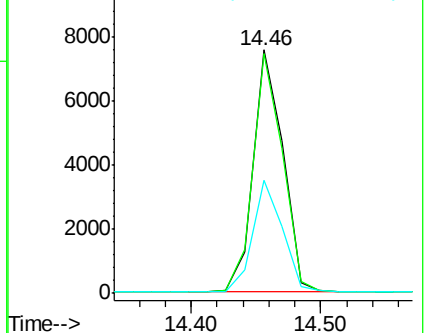
160 46.6 37.1 55.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.541 ng

RT: 15.94 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

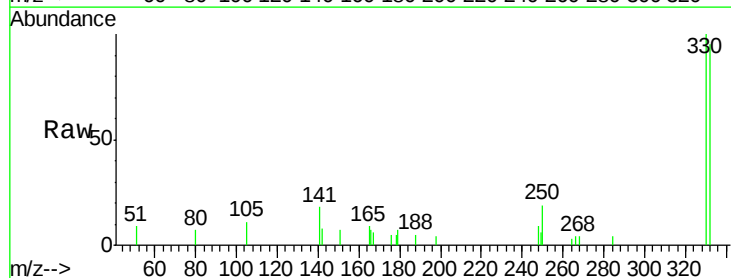
Tgt Ion:330 Resp: 2145

Ion Ratio Lower Upper

330 100

332 96.3 82.5 123.7

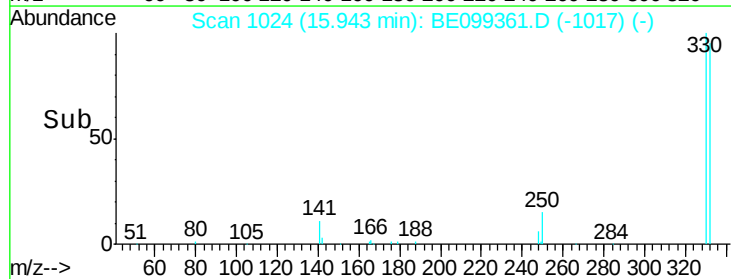
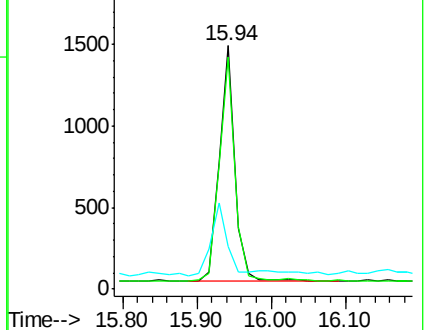
141 31.7 24.9 37.3

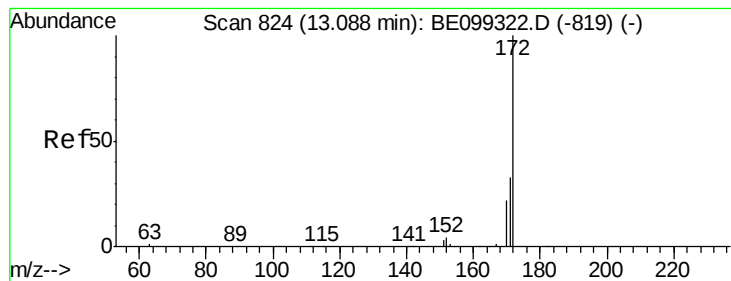


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

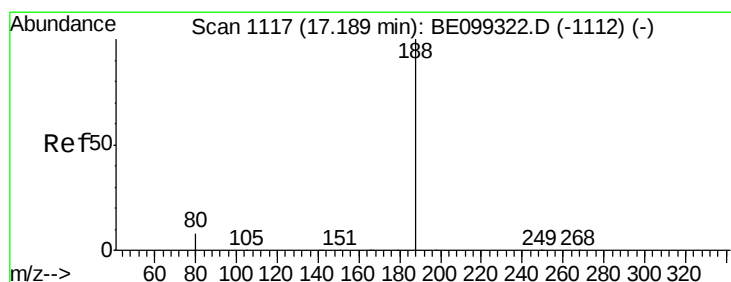
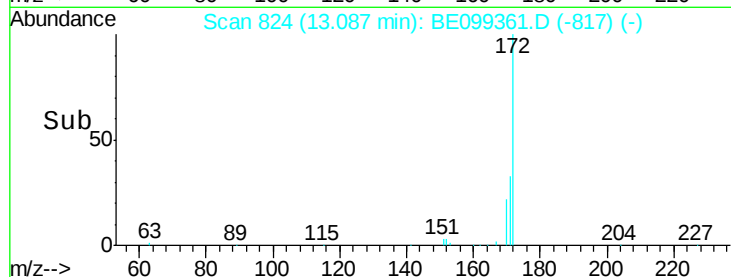
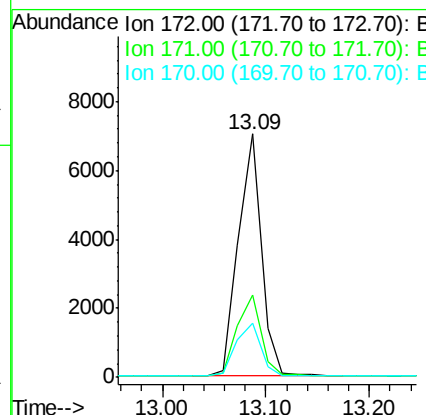
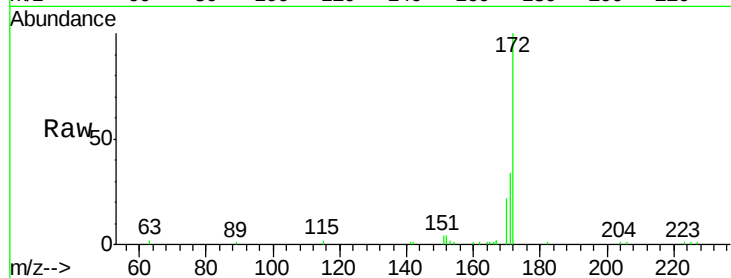




#15
2-Fluorobiphenyl
Concen: 0.229 ng
RT: 13.09 min Scan# 824
Delta R.T. -0.00 min
Lab File: BE099361.D
Acq: 25 Apr 2019 15:02

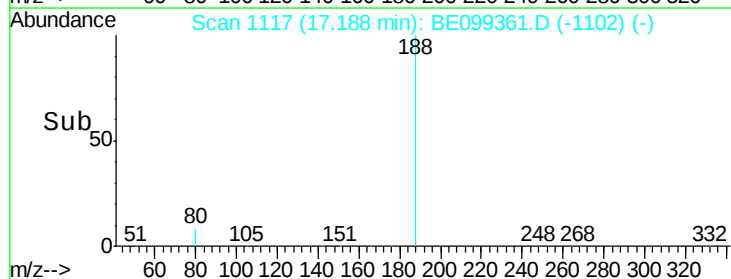
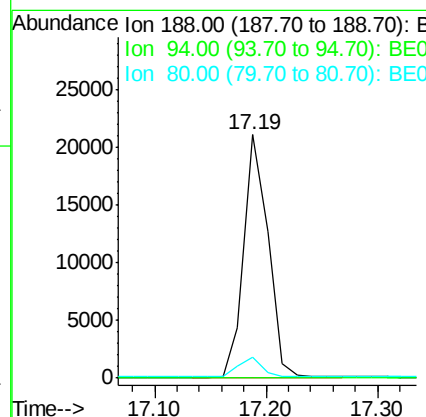
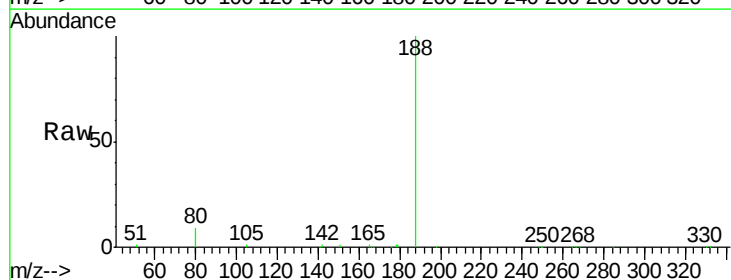
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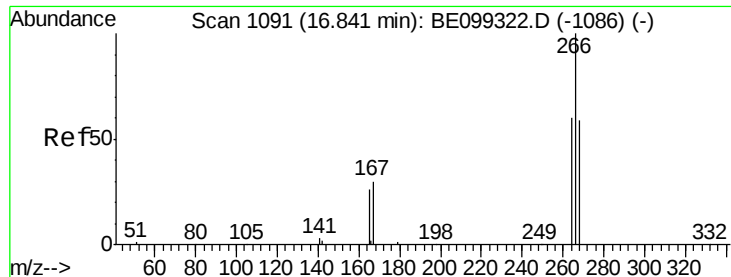
Tot Ion:172 Resp: 10764
Ion Ratio Lower Upper
172 100
171 34.1 26.2 39.2
170 22.3 18.1 27.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.19 min Scan# 1117
Delta R.T. -0.00 min
Lab File: BE099361.D
Acq: 25 Apr 2019 15:02

Tgt Ion:188 Resp: 31722
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.5 6.2 9.4

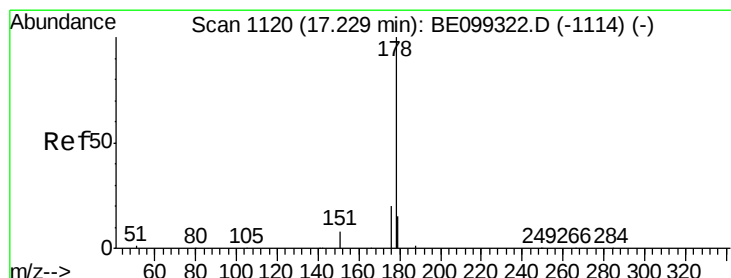
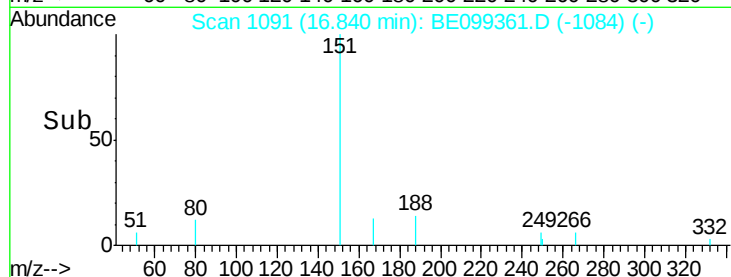
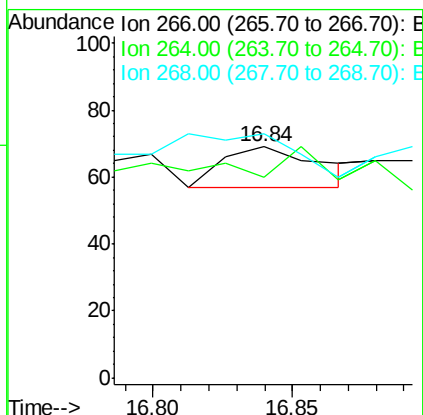
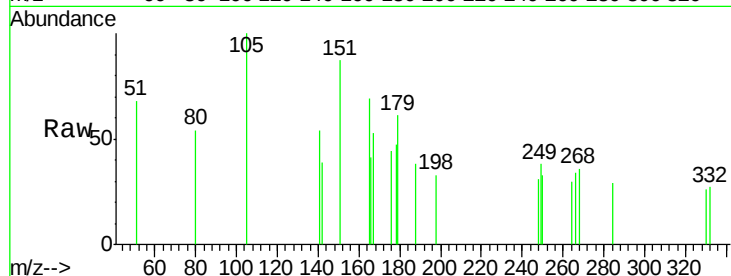




#22
 Pentachlorophenol
 Concen: 0.224 ng
 RT: 16.84 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: BE099361.D
 Acq: 25 Apr 2019 15:02

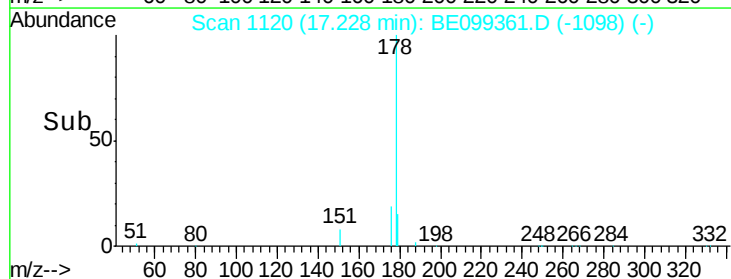
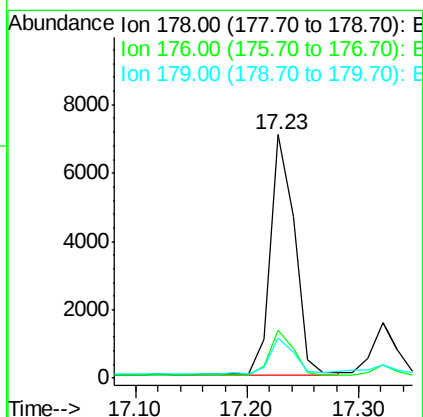
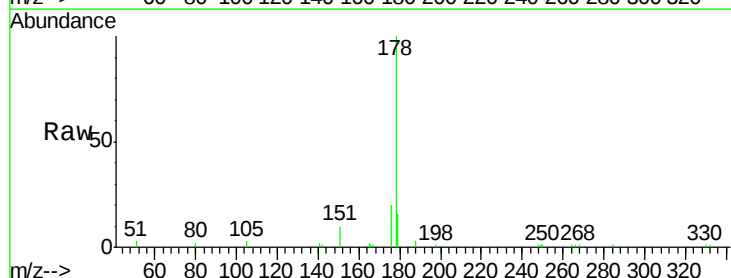
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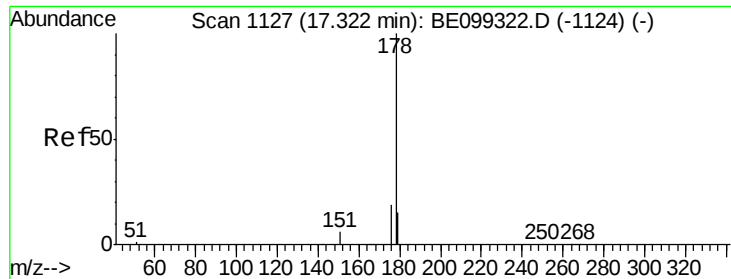
Tot Ion:266 Resp: 29
 Ion Ratio Lower Upper
 266 100
 264 87.0 54.5 81.7#
 268 105.8 54.3 81.5#



#23
 Phenanthrene
 Concen: 0.127 ng
 RT: 17.23 min Scan# 1120
 Delta R.T. -0.00 min
 Lab File: BE099361.D
 Acq: 25 Apr 2019 15:02

Tgt Ion:178 Resp: 10703
 Ion Ratio Lower Upper
 178 100
 176 19.9 15.3 22.9
 179 14.7 12.4 18.6





#24

Anthracene

Concen: 0.030 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219

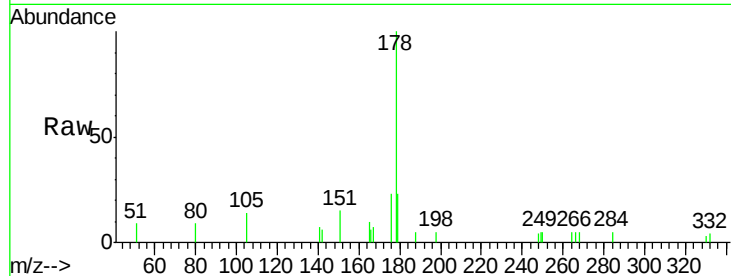
Tot Ion:178 Resp: 2215

Ion Ratio Lower Upper

178 100

176 16.0 15.1 22.7

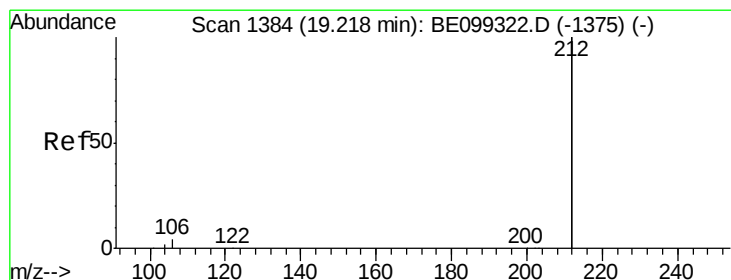
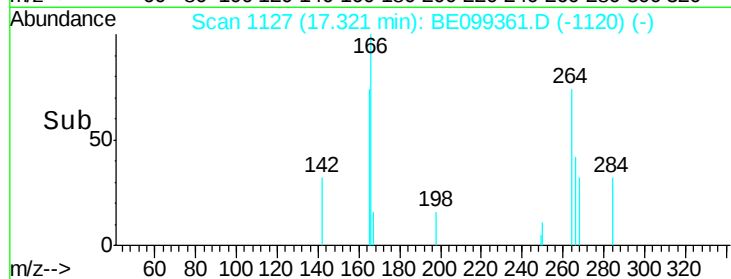
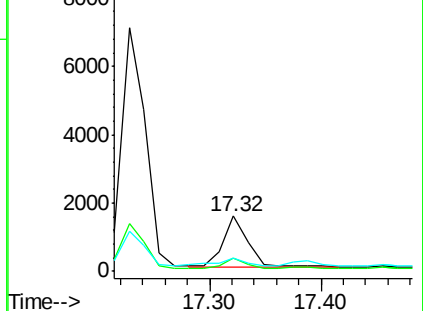
179 21.0 11.9 17.9#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.219 ng

RT: 19.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

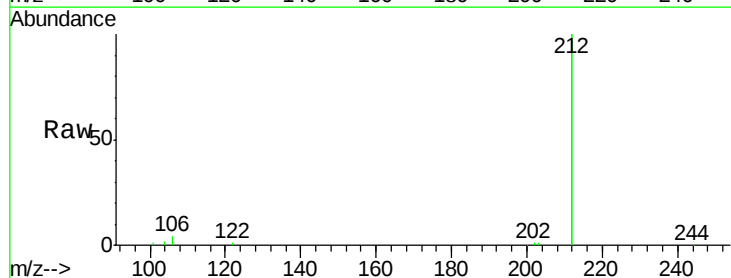
Tgt Ion:212 Resp: 83373

Ion Ratio Lower Upper

212 100

106 2.0 1.8 2.6

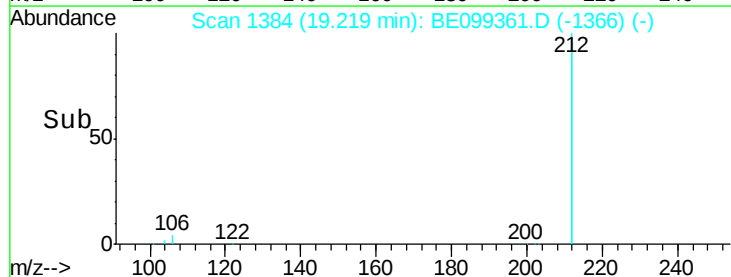
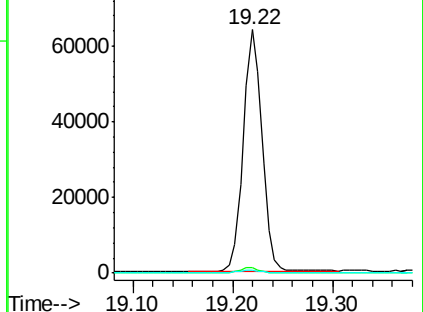
104 1.2 1.0 1.4

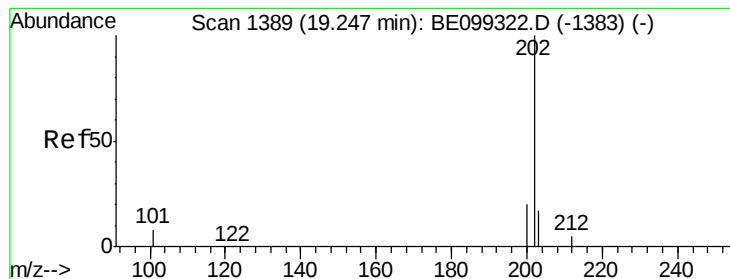


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.201 ng

RT: 19.25 min Scan# 1389

Delta R.T. 0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219

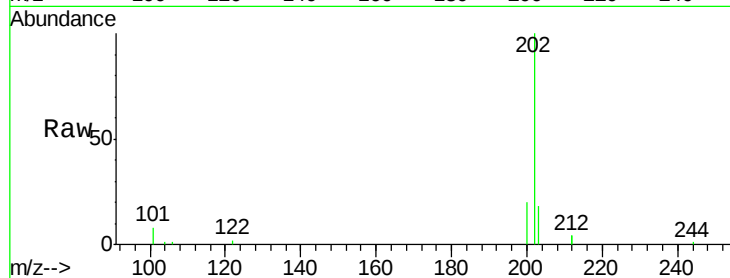
Tot Ion:202 Resp: 22572

Ion Ratio Lower Upper

202 100

101 7.6 6.4 9.6

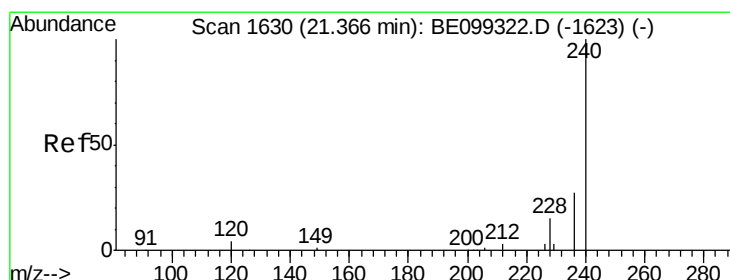
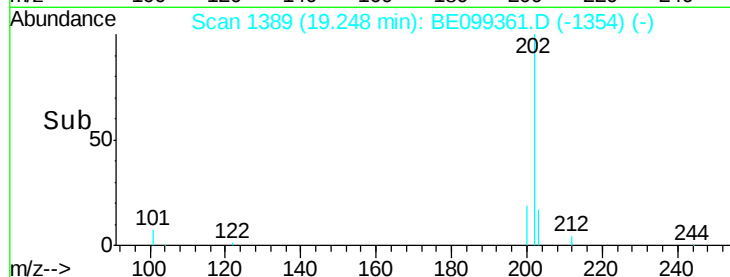
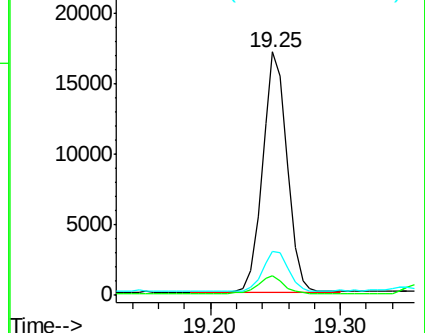
203 17.1 13.5 20.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

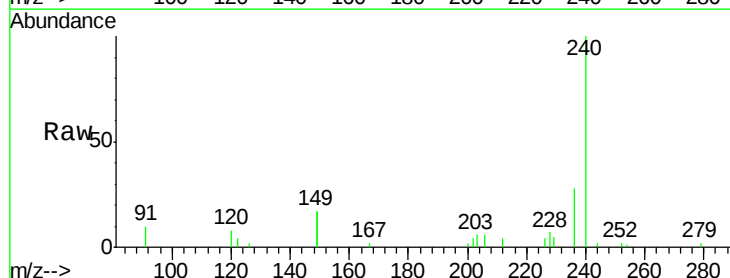
Tgt Ion:240 Resp: 35389

Ion Ratio Lower Upper

240 100

120 7.5 2.2 3.2#

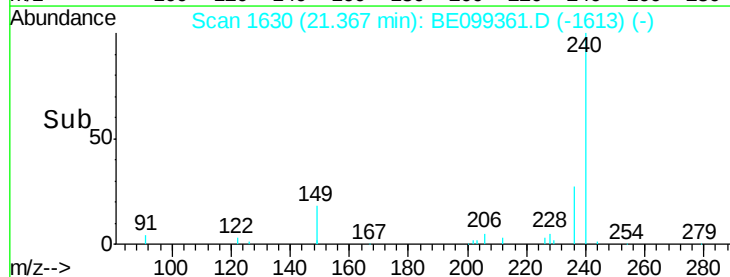
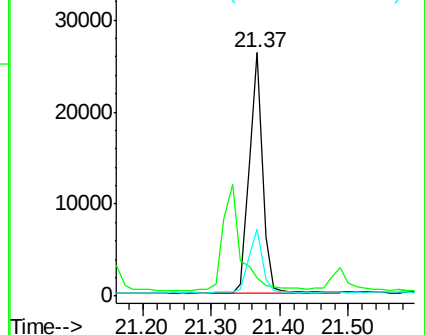
236 27.7 20.2 30.4

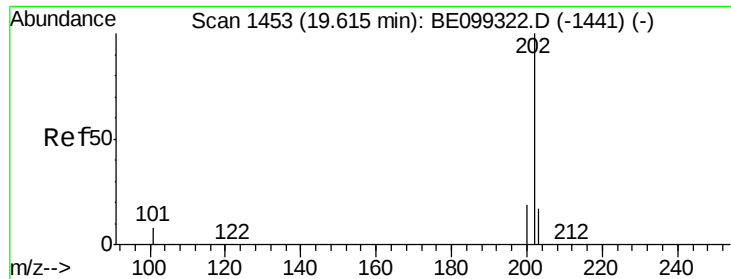


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

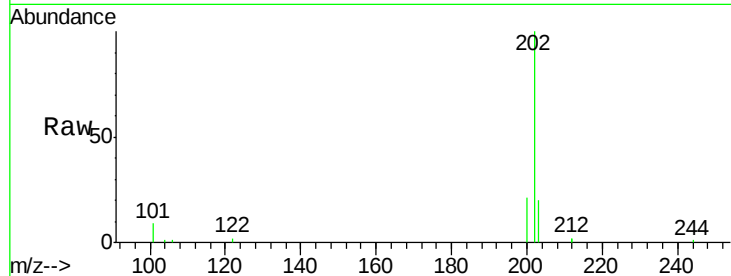




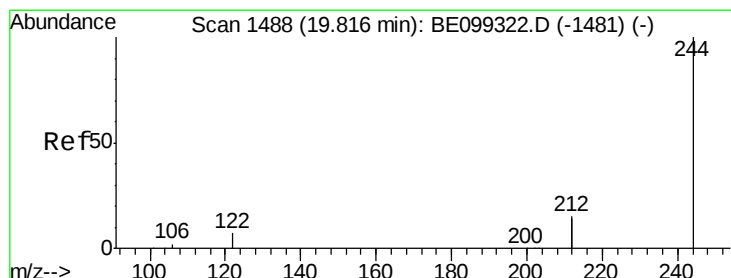
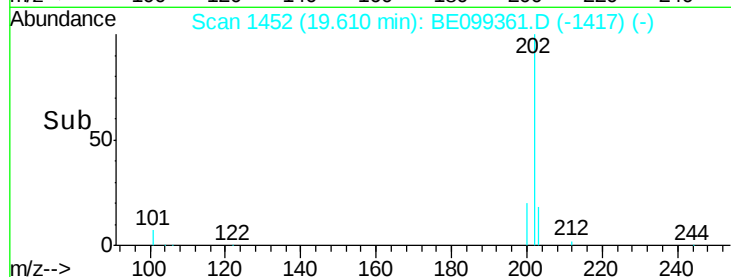
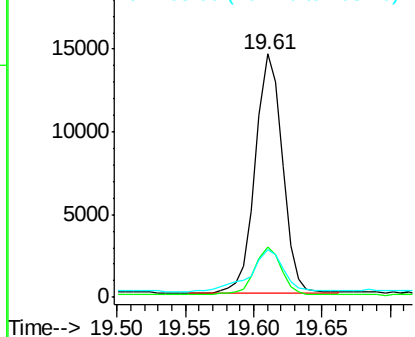
#28
Pvrene
Concen: 0.191 ng
RT: 19.61 min Scan# 1452
Delta R.T. 0.00 min
Lab File: BE099361.D
Acq: 25 Apr 2019 15:02

Instrument :
BNA_E
ClientSampleId :
EXT-073-SW067-042219

Tot Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.7	23.5
203	21.3	13.7	20.5

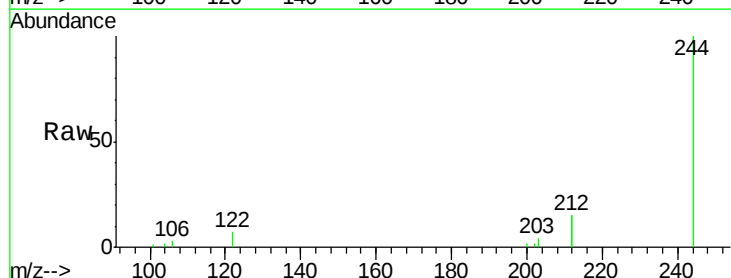


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

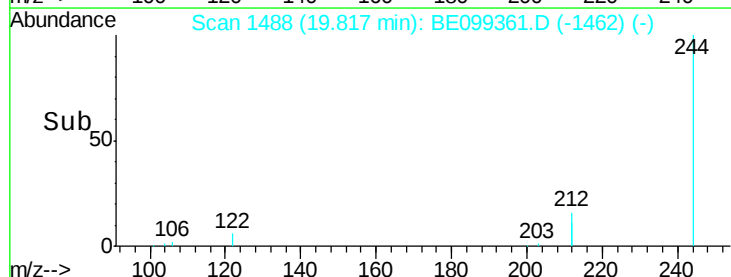
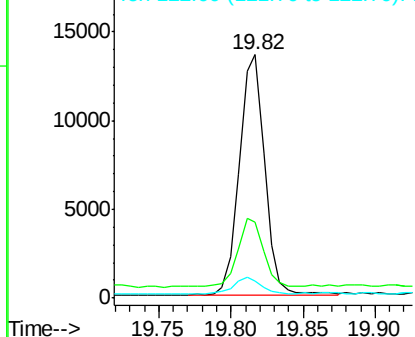


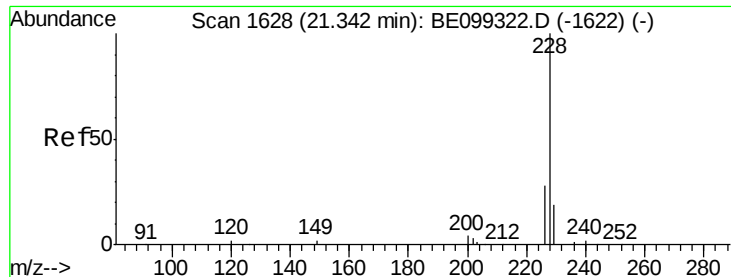
#29
Terphenyl-d14
Concen: 0.237 ng
RT: 19.82 min Scan# 1488
Delta R.T. 0.00 min
Lab File: BE099361.D
Acq: 25 Apr 2019 15:02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	30.9	22.6	33.8
122	7.1	4.6	7.0



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.130 ng

RT: 21.34 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219

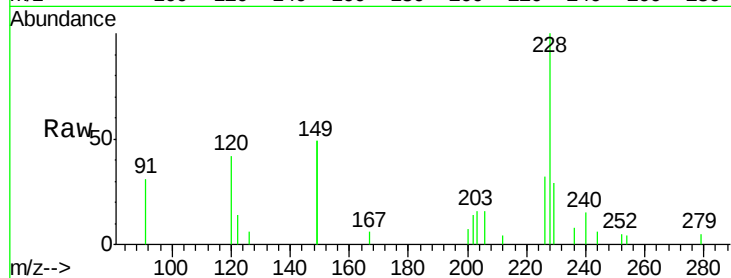
Tot Ion:228 Resp: 13502

Ion Ratio Lower Upper

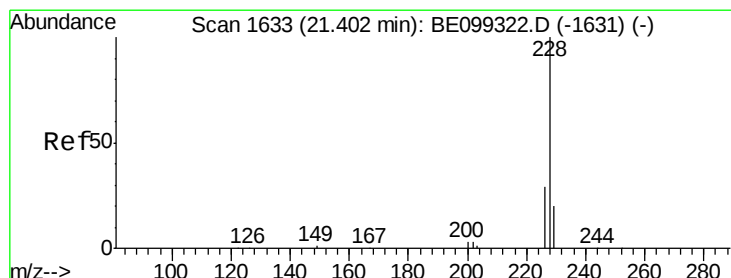
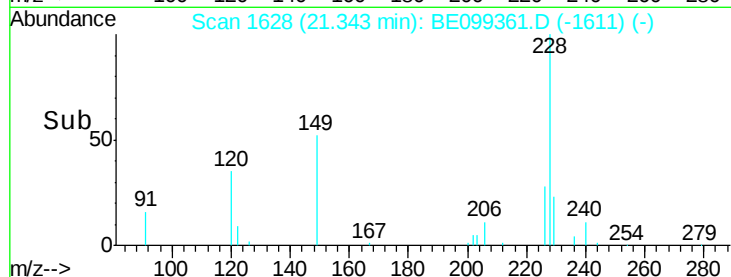
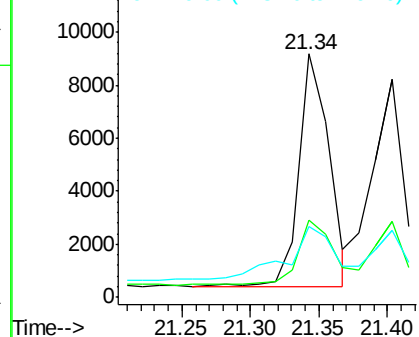
228 100

226 31.8 22.0 33.0

229 29.0 15.8 23.8#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#31

Chrysene

Concen: 0.112 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

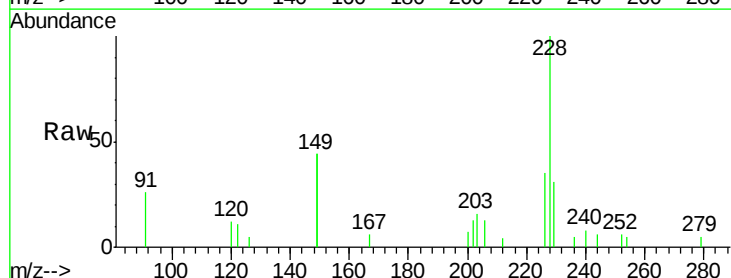
Tgt Ion:228 Resp: 12354

Ion Ratio Lower Upper

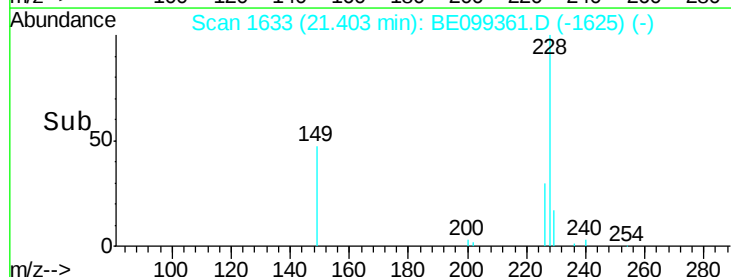
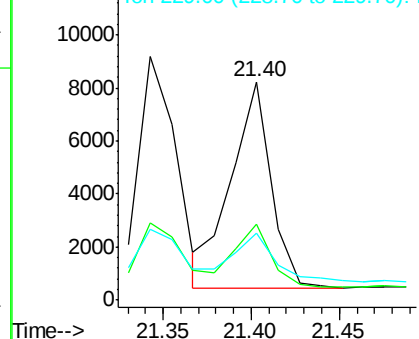
228 100

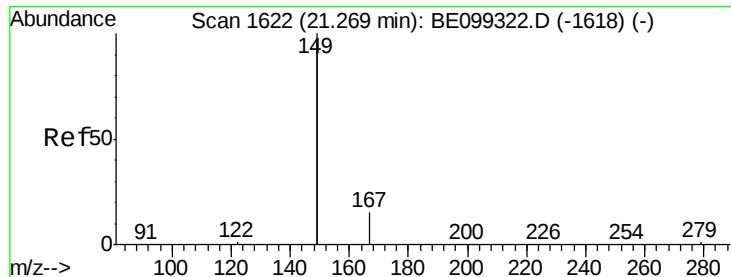
226 34.9 23.4 35.2

229 30.7 16.2 24.2#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.364 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219

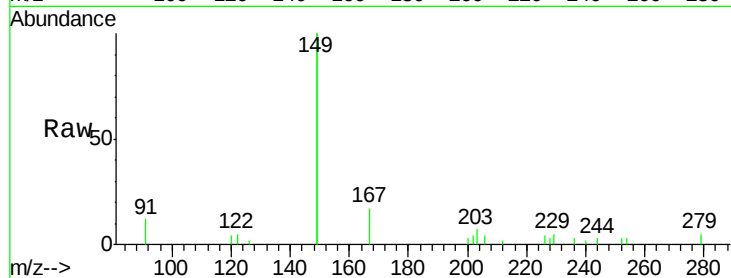
Tot Ion:149 Resp: 34414

Ion Ratio Lower Upper

149 100

167 7.4 6.0 9.0

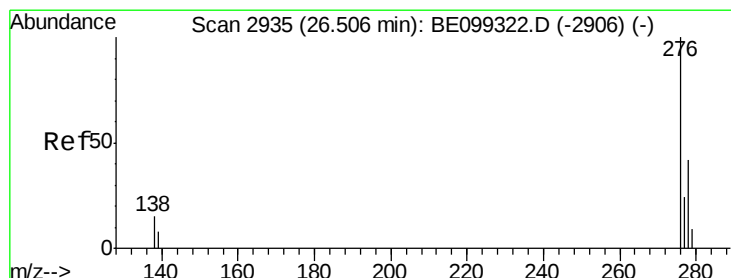
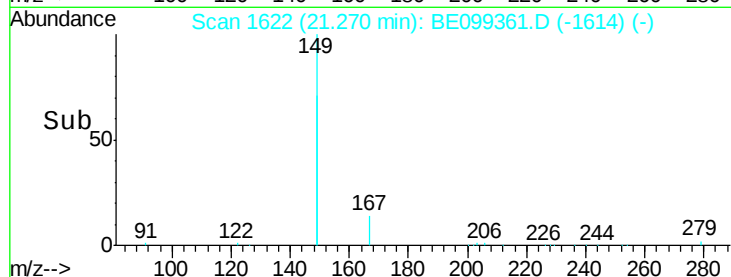
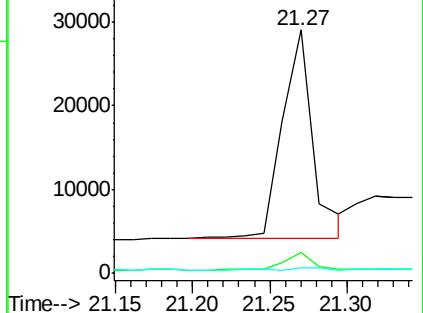
279 1.7 1.1 1.7



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.068 ng

RT: 26.51 min Scan# 2935

Delta R.T. 0.01 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

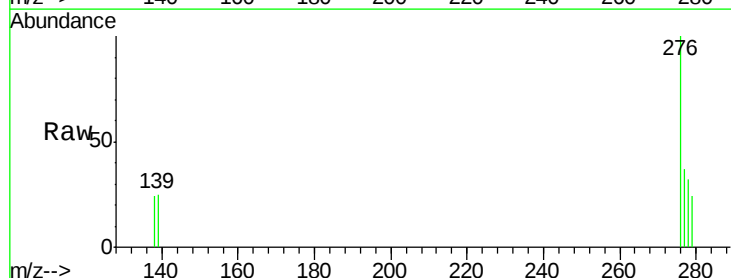
Tgt Ion:276 Resp: 7386

Ion Ratio Lower Upper

276 100

138 7.5 12.7 19.1#

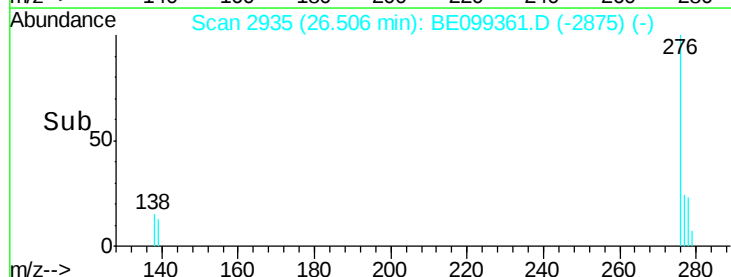
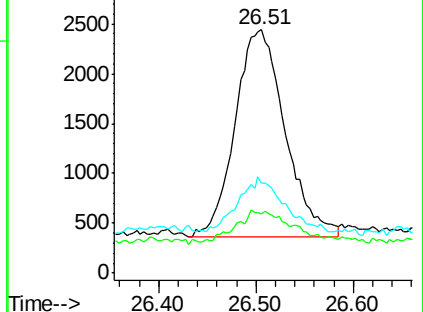
277 24.4 19.6 29.4

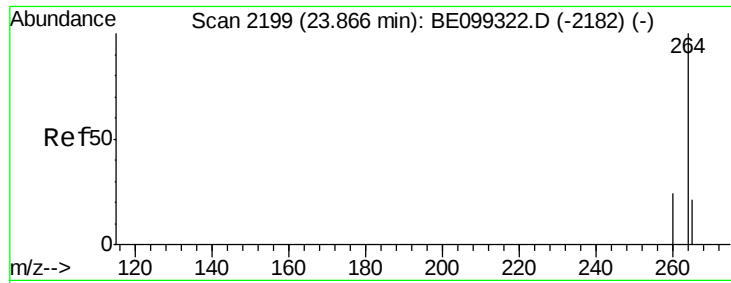


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

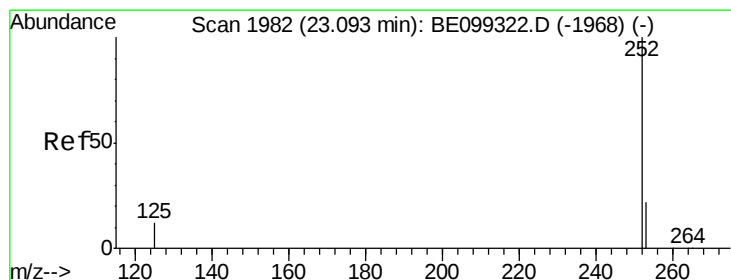
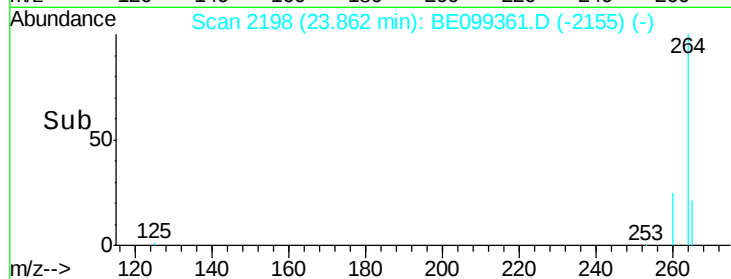
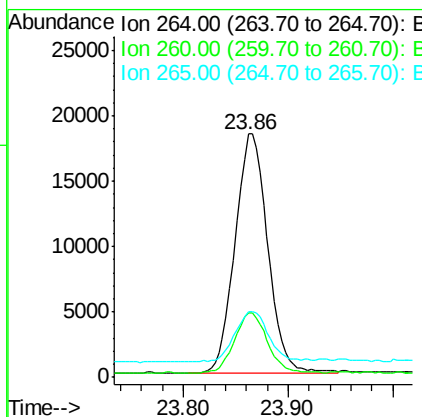
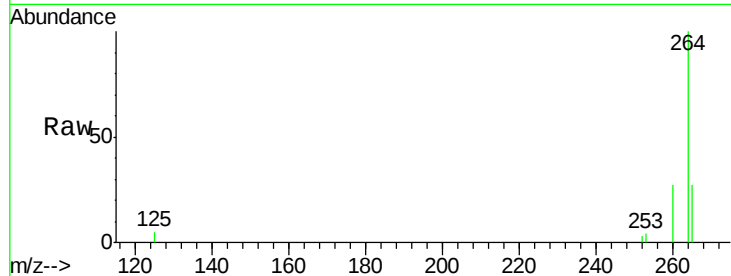




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.86 min Scan# 2198
Delta R.T. 0.00 min
Lab File: BE099361.D
Acq: 25 Apr 2019 15:02

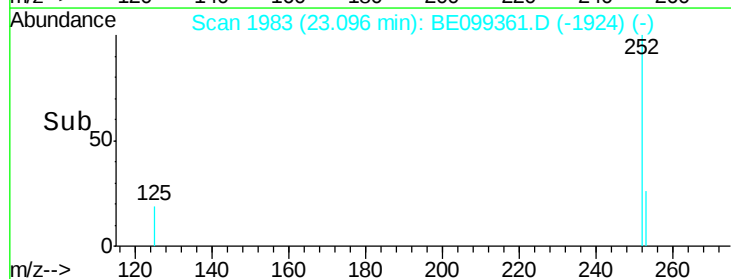
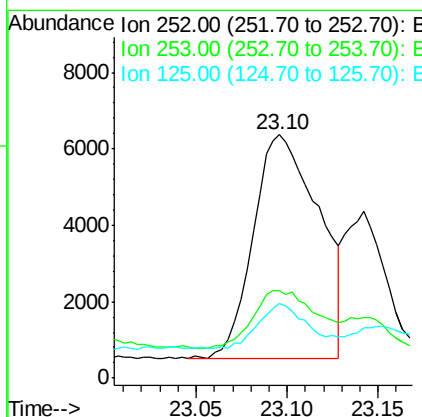
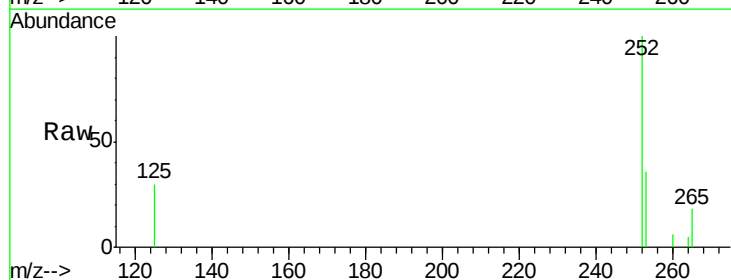
Instrument :
BNA_E
ClientSampleId :
EXT-073-SW067-042219

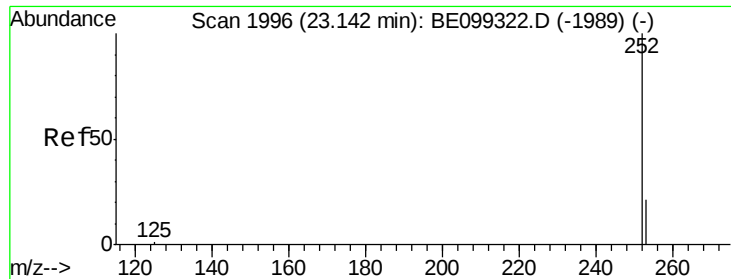
Tot Ion:264 Resp: 39789
Ion Ratio Lower Upper
264 100
260 26.6 20.1 30.1
265 27.2 19.9 29.9



#35
Benzo(b)fluoranthene
Concen: 0.121 ng
RT: 23.10 min Scan# 1983
Delta R.T. 0.01 min
Lab File: BE099361.D
Acq: 25 Apr 2019 15:02

Tgt Ion:252 Resp: 14725
Ion Ratio Lower Upper
252 100
253 35.7 17.3 25.9#
125 30.5 5.8 8.6#





#36

Benzo(k)fluoranthene

Concen: 0.121 ng

RT: 23.10 min Scan# 1983

Delta R.T. -0.04 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219

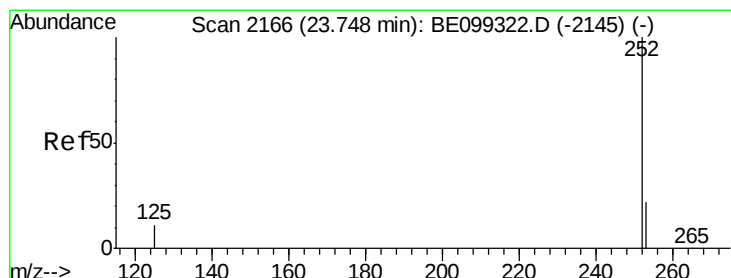
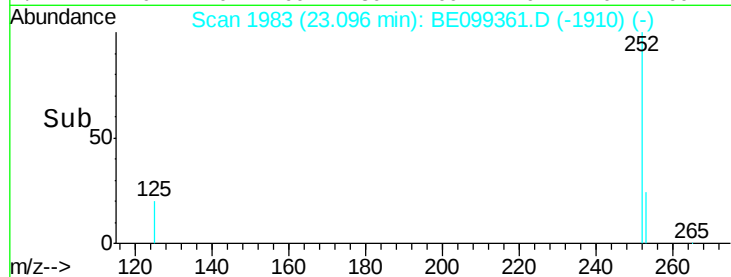
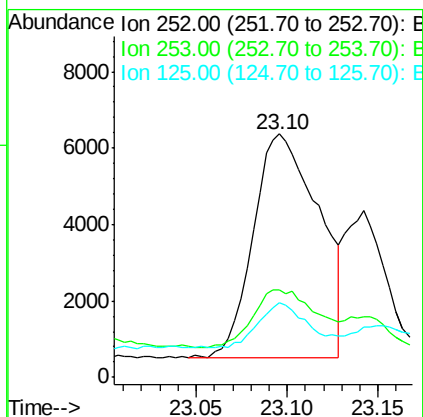
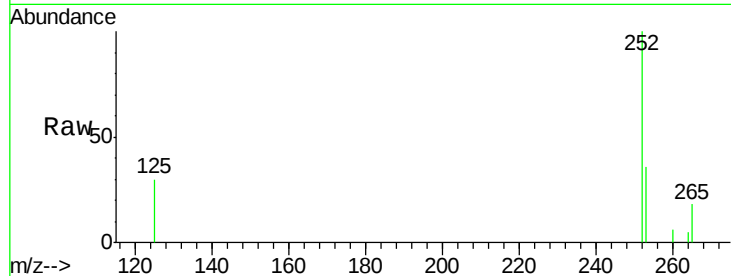
Tot Ion:252 Resp: 14725

Ion Ratio Lower Upper

252 100

253 35.7 18.4 27.6#

125 30.5 5.4 8.0#



#37

Benzo(a)pyrene

Concen: 0.096 ng

RT: 23.75 min Scan# 2167

Delta R.T. 0.01 min

Lab File: BE099361.D

Acq: 25 Apr 2019 15:02

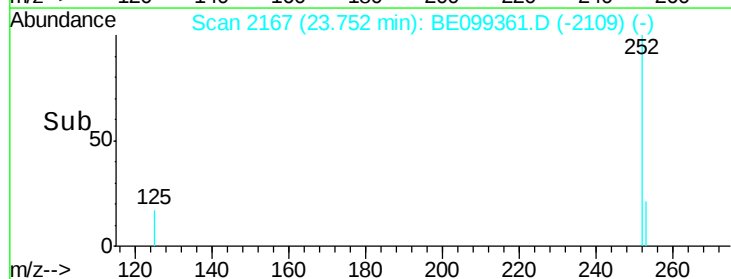
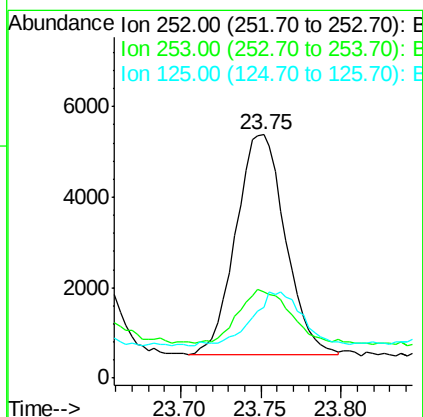
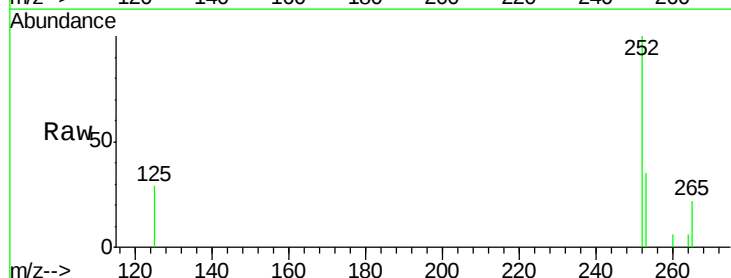
Tgt Ion:252 Resp: 10471

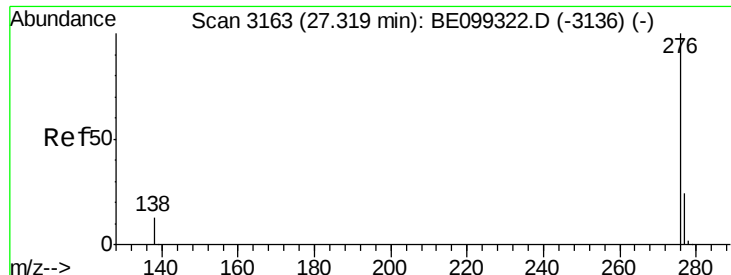
Ion Ratio Lower Upper

252 100

253 35.3 17.6 26.4#

125 29.2 6.5 9.7#





#39

Benzo(a,h,i)perylene

Concen: 0.055 ng

RT: 27.32 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BE099361.D

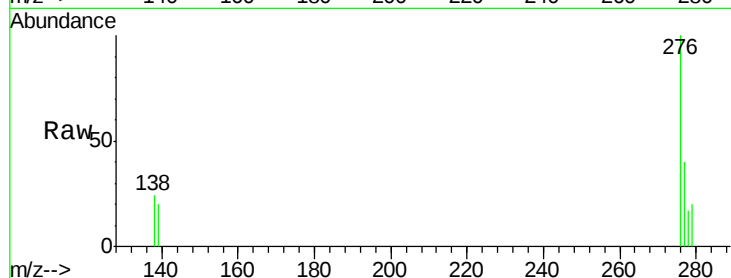
Acq: 25 Apr 2019 15:02

Instrument :

BNA_E

ClientSampleId :

EXT-073-SW067-042219



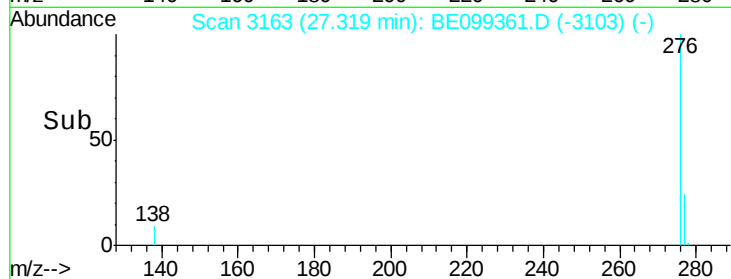
Tot Ion: 276 Resp: 6273

Ion Ratio Lower Upper

276 100

277 40.0 20.0 30.0#

138 23.6 11.1 16.7#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

