

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE043019\
 Data File : BE099445.D
 Acq On : 1 May 2019 3:03
 Operator : JU/SJ
 Sample : K2568-08
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-026-SW045-042219

Quant Time: May 01 06:56:01 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 29 18:36:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	2374	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9405	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7783	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	25888	0.40	ng	0.00
27) Chrysene-d12	21.37	240	30633	0.40	ng	0.00
34) Perylene-d12	23.86	264	35458	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.38	112	2598	0.40	ng	0.00
5) Phenol-d6	6.97	99	3967	0.45	ng	0.00
8) Nitrobenzene-d5	8.96	82	3189	0.36	ng	0.00
11) 2-Methylnaphthalene-d10	12.20	152	6147	0.36	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	2256	0.46	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	9188	0.31	ng	-0.01
25) Fluoranthene-d10	19.22	212	114779	0.33	ng	0.00
29) Terphenyl-d14	19.81	244	24745	0.44	ng	0.00

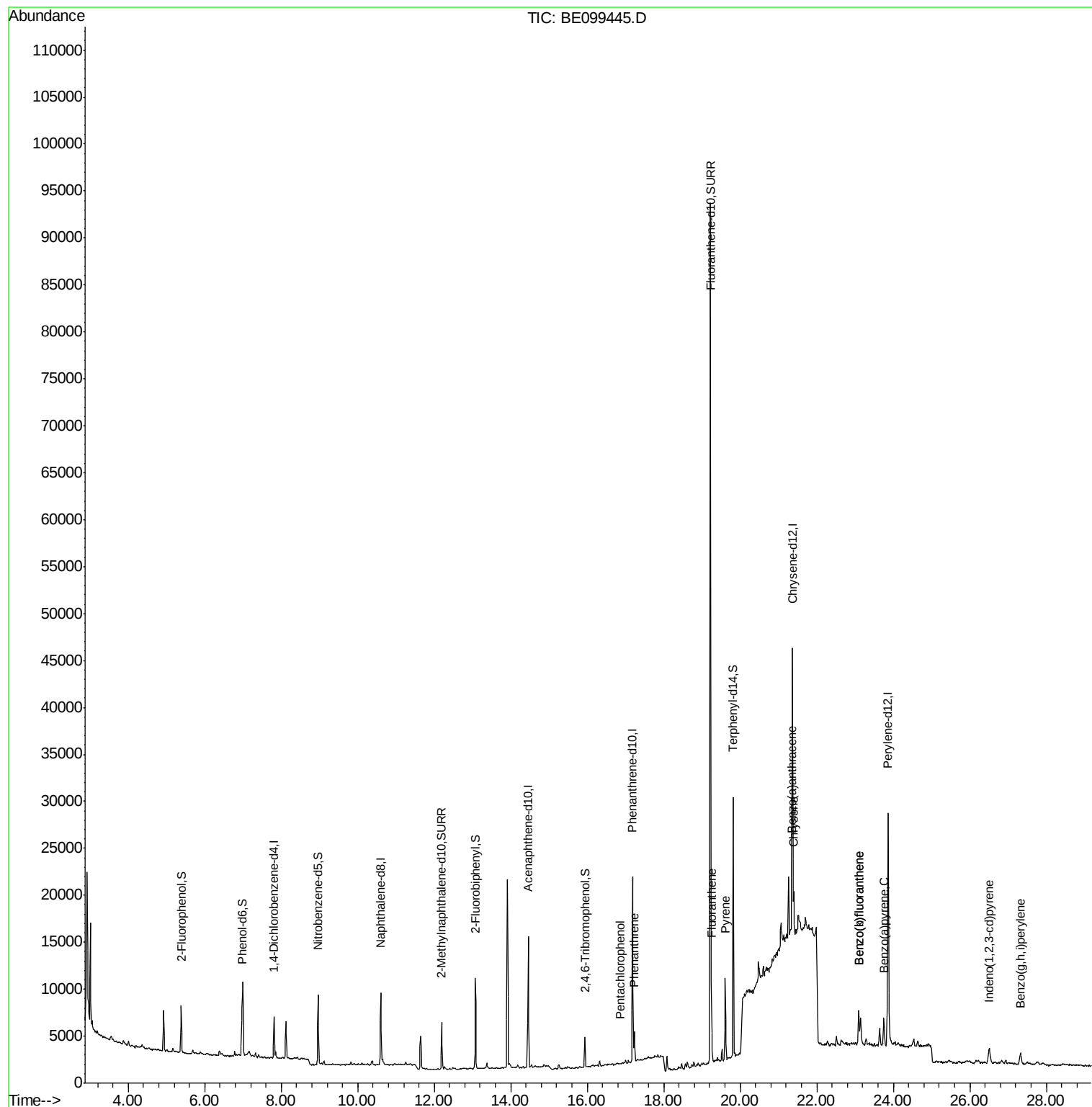
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
22) Pentachlorophenol	16.87	266	54	0.222	ng	# 66
23) Phenanthrene	17.23	178	3250	0.049	ng	# 94
26) Fluoranthene	19.25	202	6682	0.067	ng	# 97
28) Pyrene	19.61	202	8134	0.102	ng	# 93
30) Benzo(a)anthracene	21.34	228	4762	0.049	ng	# 65
31) Chrysene	21.40	228	4950	0.052	ng	# 72
33) Indeno(1,2,3-cd)pyrene	26.50	276	2981	0.026	ng	# 75
35) Benzo(b)fluoranthene	23.09	252	5511	0.054	ng	# 16
36) Benzo(k)fluoranthene	23.09	252	5511	0.056	ng	# 18
37) Benzo(a)pyrene	23.75	252	3948	0.041	ng	# 19
39) Benzo(a,h,i)perylene	27.32	276	3000	0.030	ng	# 52

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

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 430

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219

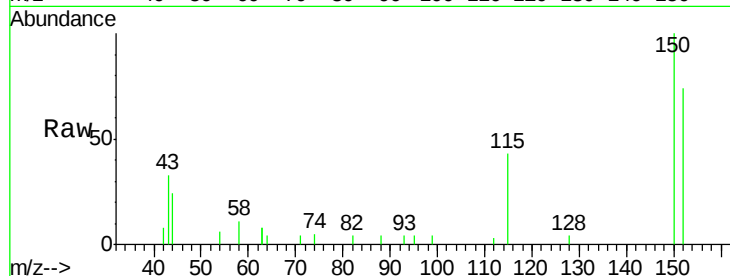
Tot Ion:152 Resp: 2374

Ion Ratio Lower Upper

152 100

150 134.9 104.8 157.2

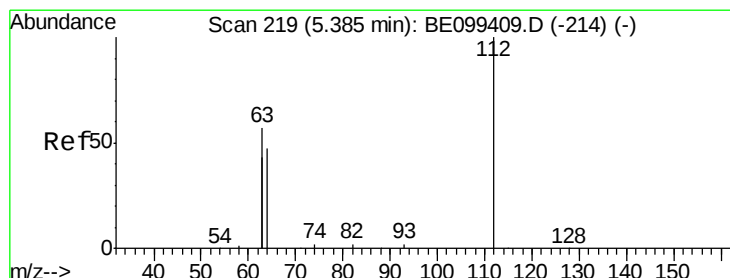
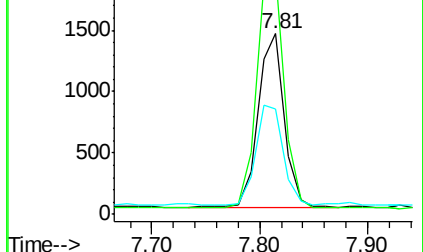
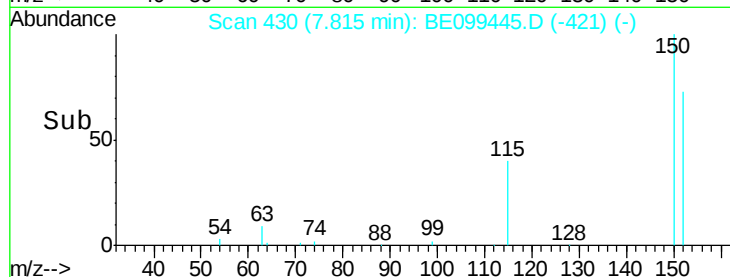
115 58.3 46.6 69.8



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: 0.396 ng

RT: 5.38 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

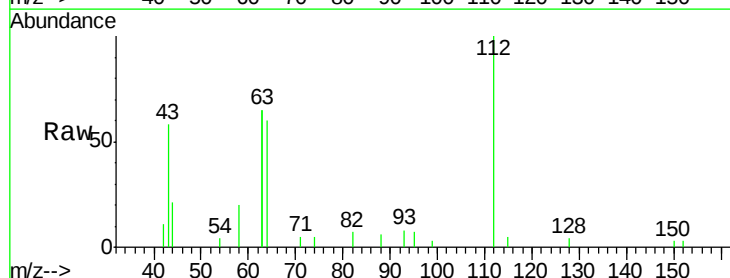
Tgt Ion:112 Resp: 2598

Ion Ratio Lower Upper

112 100

64 56.7 47.4 71.0

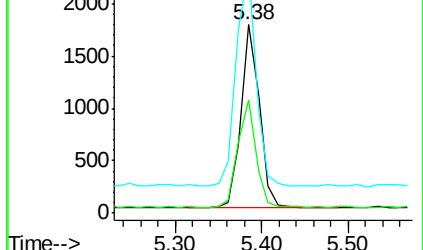
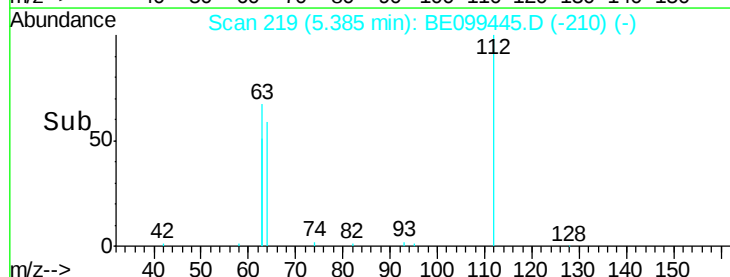
63 123.8 104.3 156.5



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: 0.454 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219

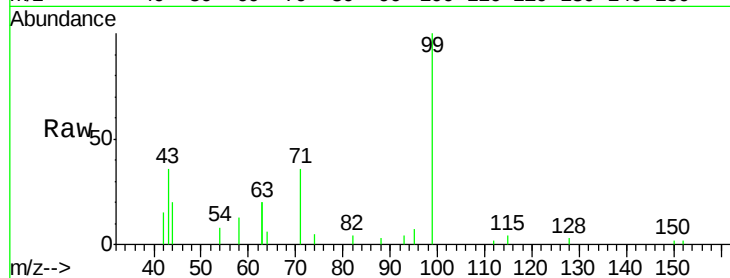
Tot Ion: 99 Resp: 3967

Ion Ratio Lower Upper

99 100

42 19.3 14.9 22.3

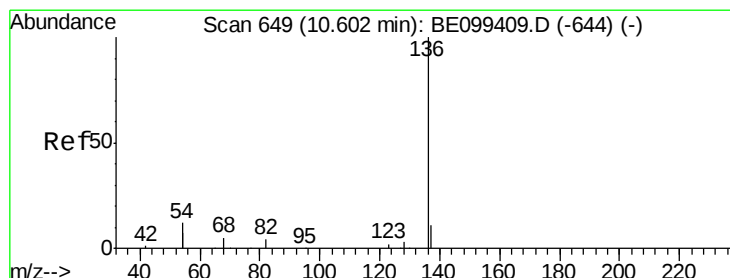
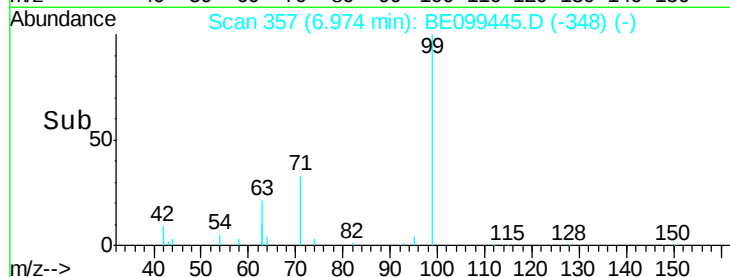
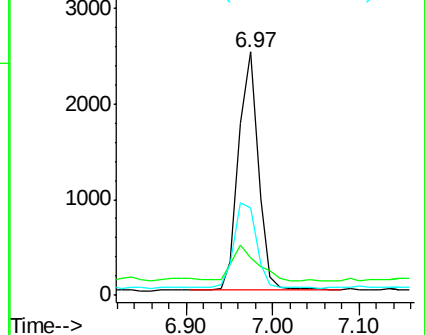
71 41.1 33.0 49.6



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# 650

Delta R.T. 0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Tgt Ion: 136 Resp: 9405

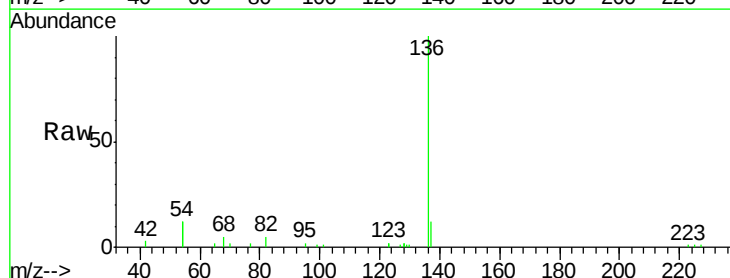
Ion Ratio Lower Upper

136 100

137 11.8 9.8 14.8

54 23.2 18.5 27.7

68 5.3 4.7 7.1

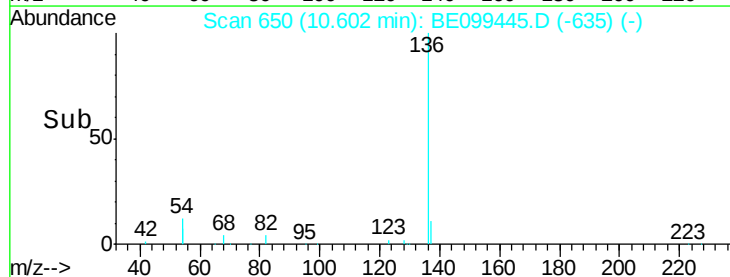
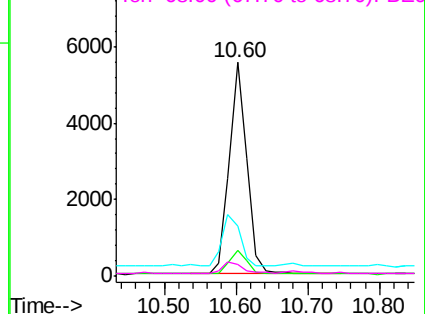


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.362 ng

RT: 8.96 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

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ClientSampleId :

EXT-026-SW045-042219

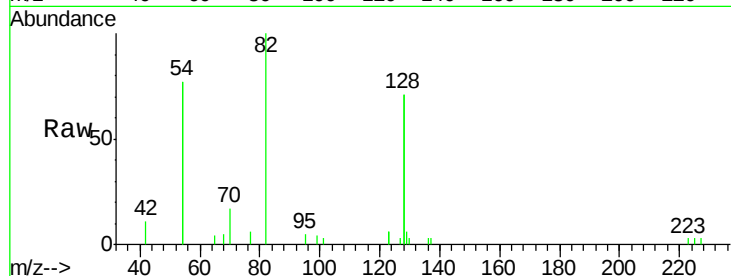
Tot Ion: 82 Resp: 3189

Ion Ratio Lower Upper

82 100

128 142.8 107.0 160.4

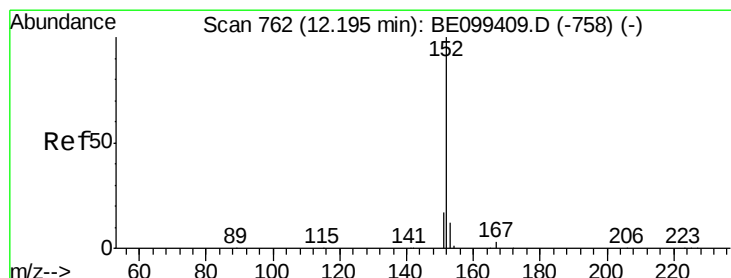
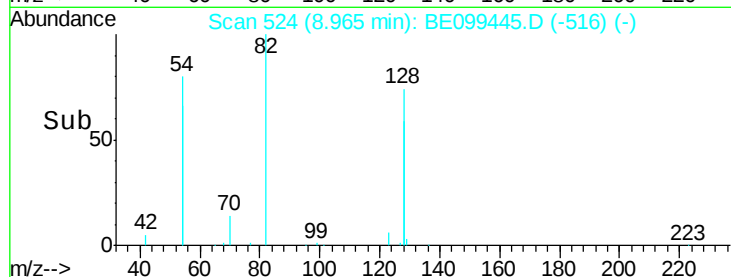
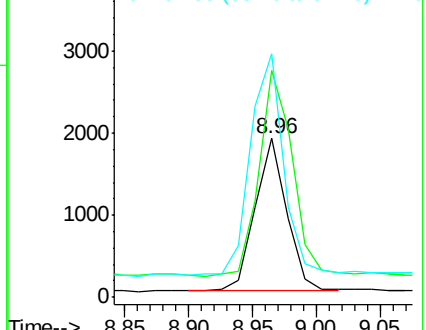
54 153.4 113.1 169.7



Abundance Ion 82.00 (81.70 to 82.70): BE099445.D (-516) (-)

Ion 128.00 (127.70 to 128.70): BE099445.D (-516) (-)

Ion 54.00 (53.70 to 54.70): BE099445.D (-516) (-)



#11

2-Methylnaphthalene-d10

Concen: 0.363 ng

RT: 12.20 min Scan# 763

Delta R.T. -0.00 min

Lab File: BE099445.D

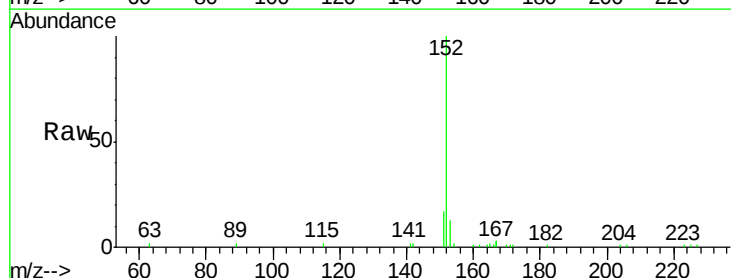
Acq: 1 May 2019 3:03

Tgt Ion: 152 Resp: 6147

Ion Ratio Lower Upper

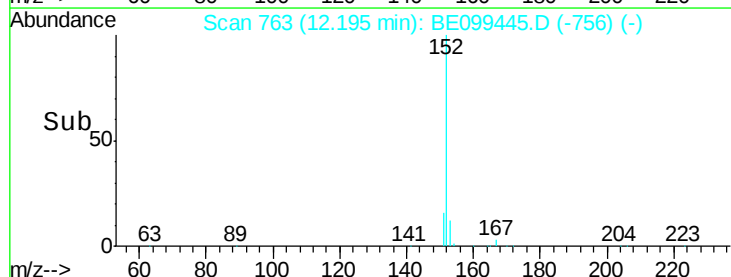
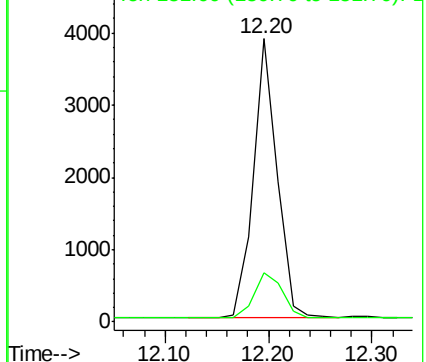
152 100

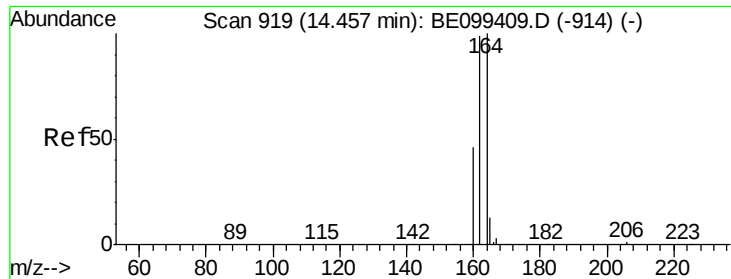
151 19.7 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): BE099445.D (-756) (-)

Ion 151.00 (150.70 to 151.70): BE099445.D (-756) (-)





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.46 min Scan# 920

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219

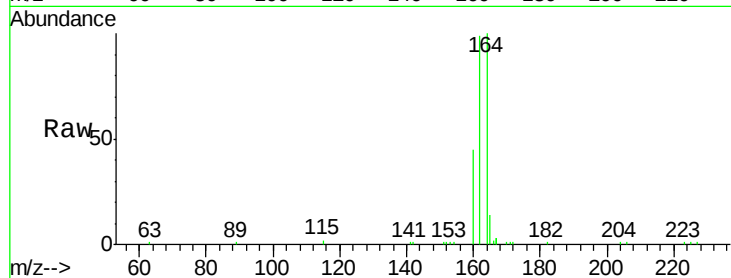
Tot Ion:164 Resp: 7783

Ion Ratio Lower Upper

164 100

162 98.7 79.0 118.4

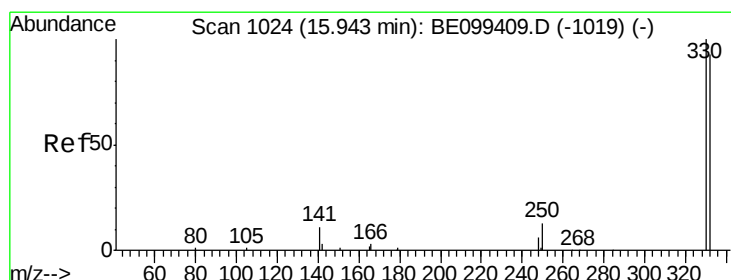
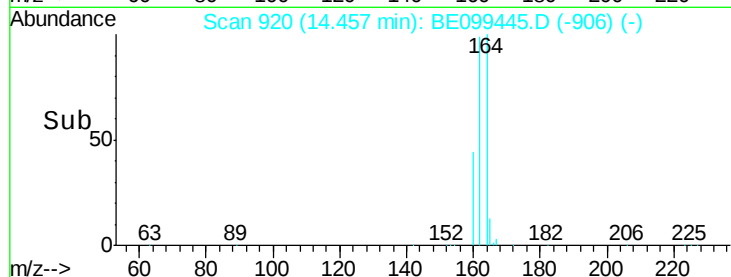
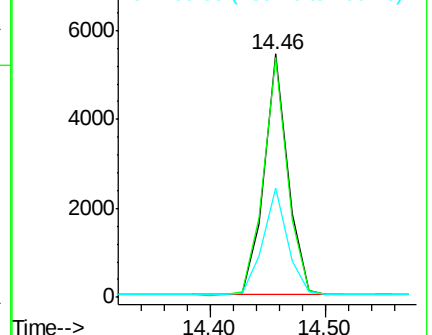
160 44.6 37.0 55.4



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: 0.460 ng

RT: 15.94 min Scan# 1025

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

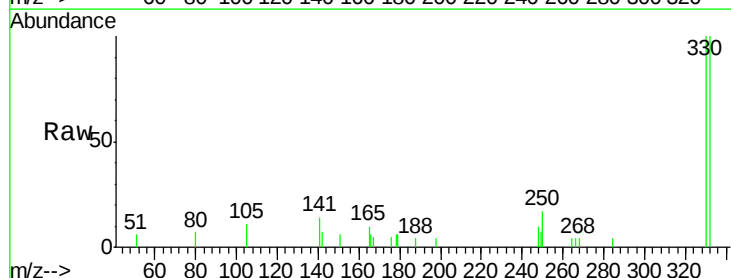
Tgt Ion:330 Resp: 2256

Ion Ratio Lower Upper

330 100

332 95.3 71.5 107.3

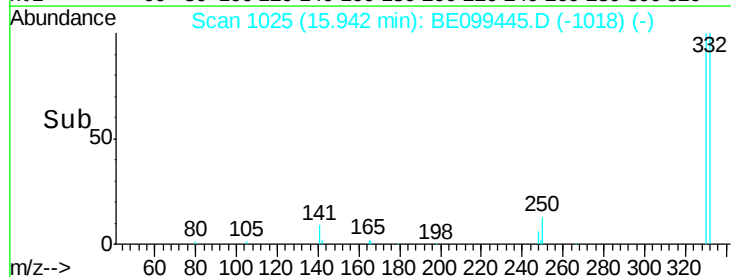
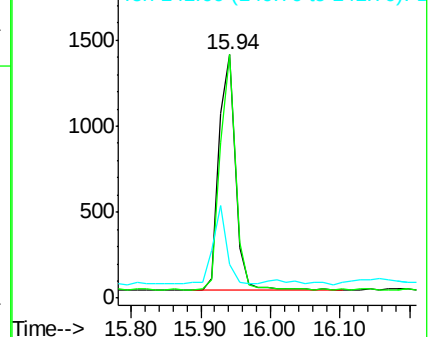
141 28.0 24.0 36.0

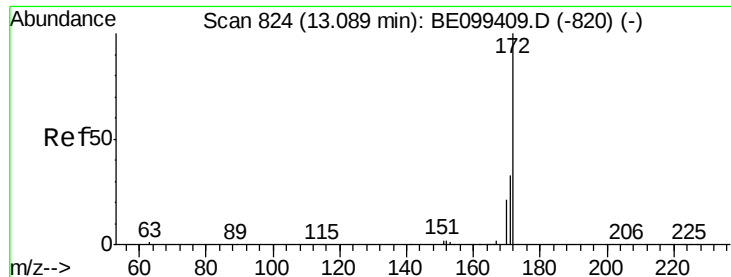


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

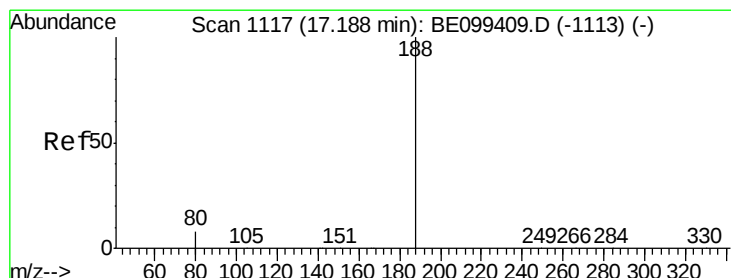
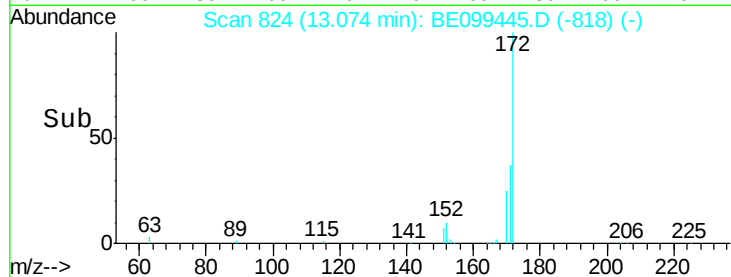
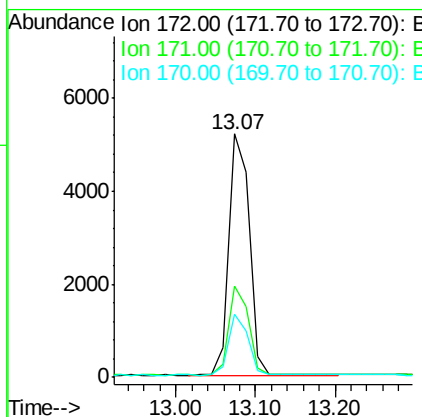
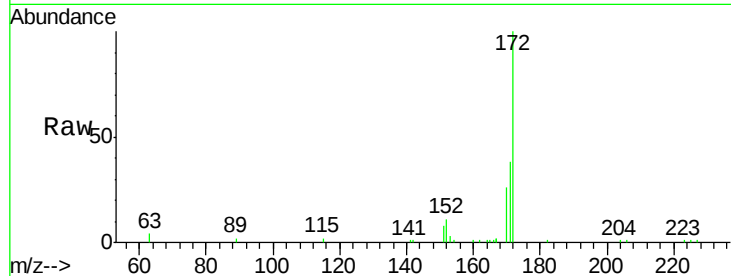




#15
 2-Fluorobiphenyl
 Concen: 0.309 ng
 RT: 13.07 min Scan# 824
 Delta R.T. -0.01 min
 Lab File: BE099445.D
 Acq: 1 May 2019 3:03

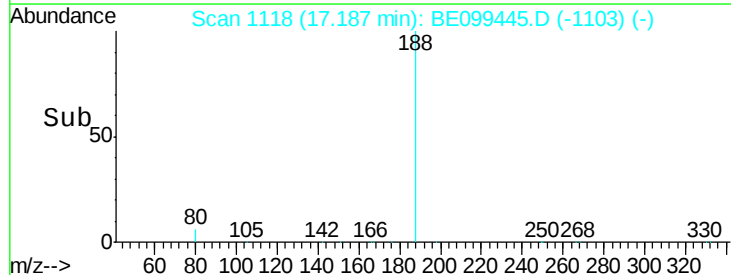
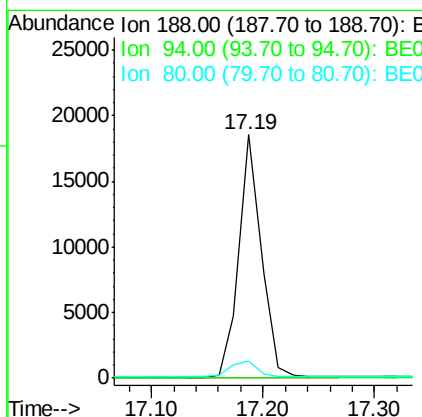
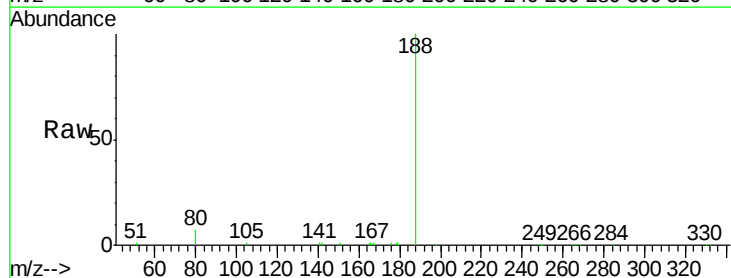
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 EXT-026-SW045-042219

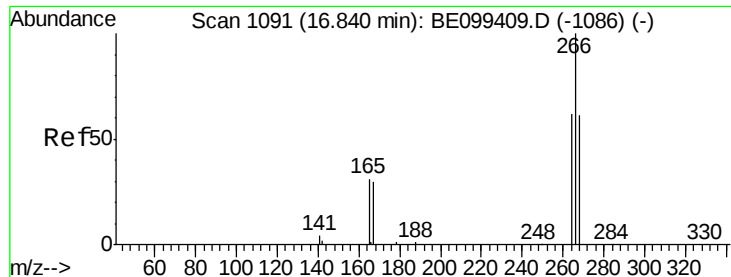
Tot Ion:172 Resp: 9188
 Ion Ratio Lower Upper
 172 100
 171 37.6 26.6 39.8
 170 26.1 17.0 25.6#



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.19 min Scan# 1118
 Delta R.T. -0.00 min
 Lab File: BE099445.D
 Acq: 1 May 2019 3:03

Tgt Ion:188 Resp: 25888
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 7.0 6.7 10.1





#22

Pentachlorophenol

Concen: 0.222 ng

RT: 16.87 min Scan# 1094

Delta R.T. 0.03 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219

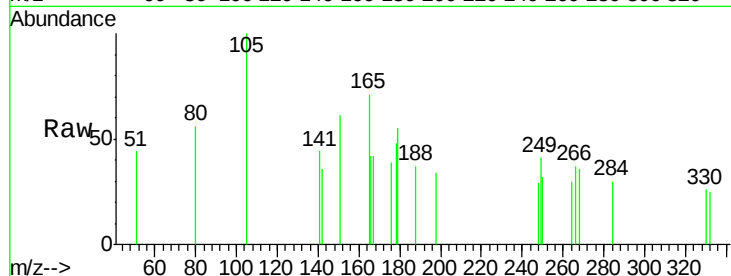
Tot Ion:266 Resp: 54

Ion Ratio Lower Upper

266 100

264 81.6 50.8 76.2#

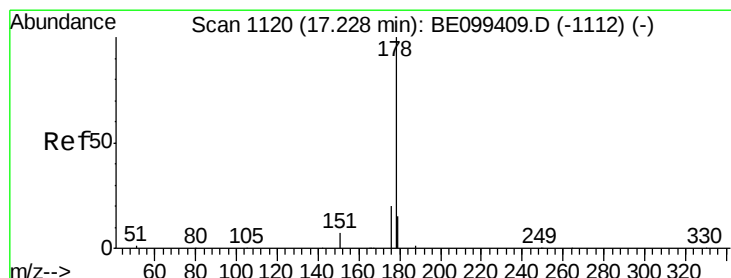
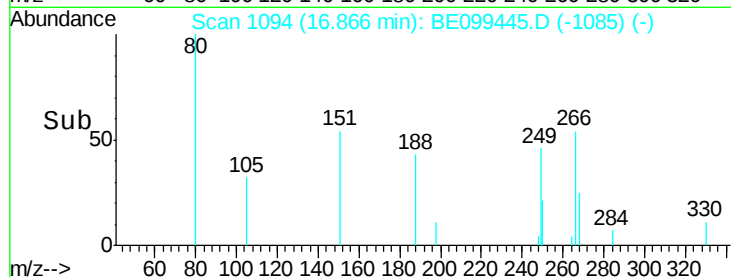
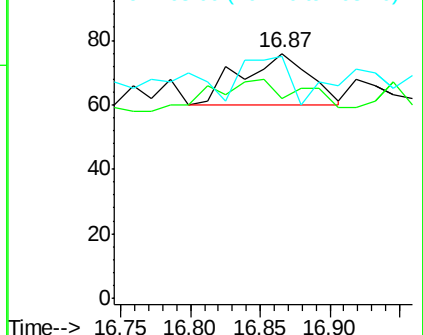
268 98.7 50.5 75.7#



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E



#23

Phenanthrene

Concen: 0.049 ng

RT: 17.23 min Scan# 1121

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

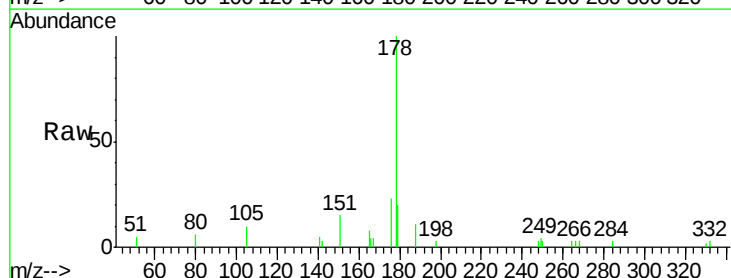
Tgt Ion:178 Resp: 3250

Ion Ratio Lower Upper

178 100

176 19.2 15.6 23.4

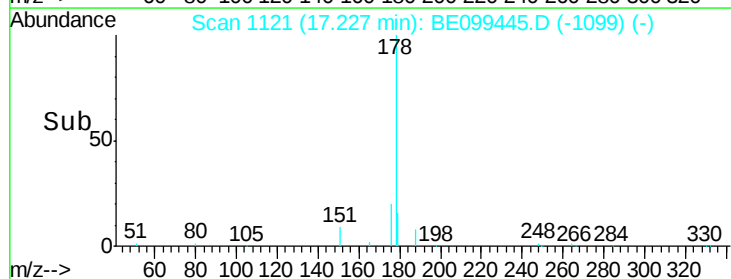
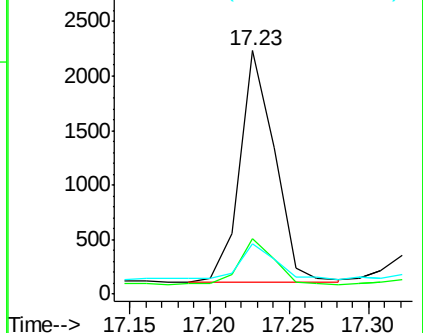
179 20.9 12.0 18.0#

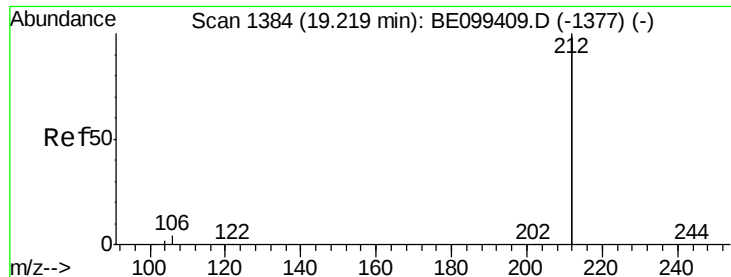


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.329 ng

RT: 19.22 min Scan# 1385

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219

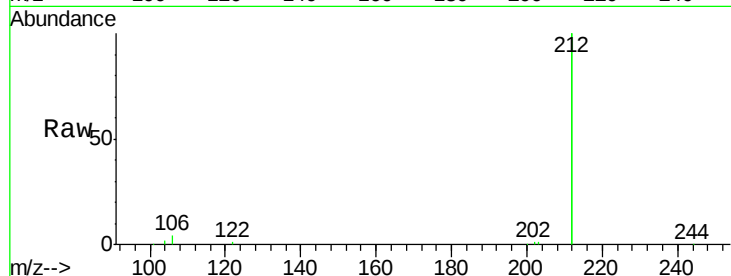
Tot Ion:212 Resp: 114779

Ion Ratio Lower Upper

212 100

106 1.8 1.5 2.3

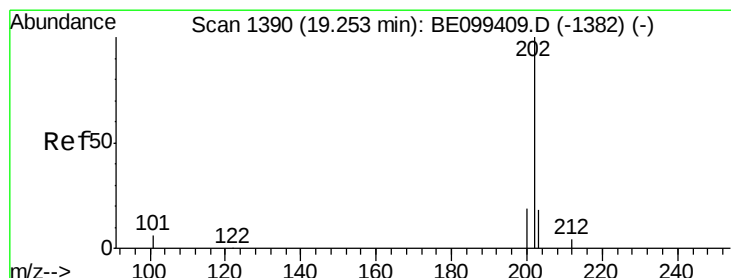
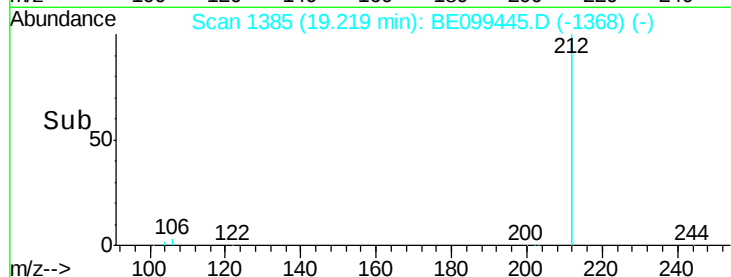
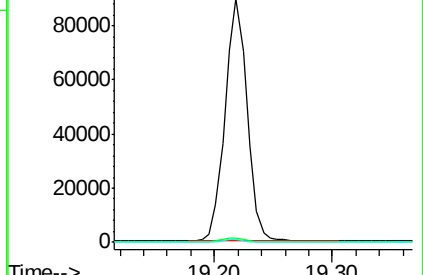
104 1.1 0.9 1.3



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: 0.067 ng

RT: 19.25 min Scan# 1390

Delta R.T. -0.01 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

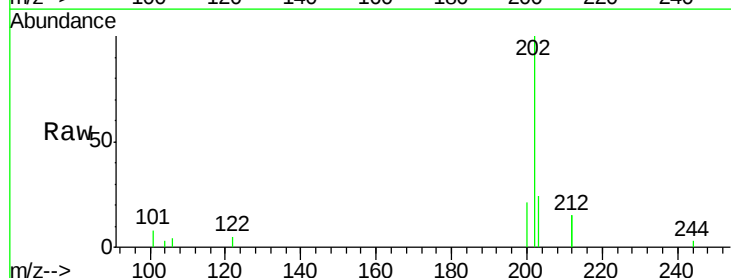
Tgt Ion:202 Resp: 6682

Ion Ratio Lower Upper

202 100

101 7.2 5.4 8.0

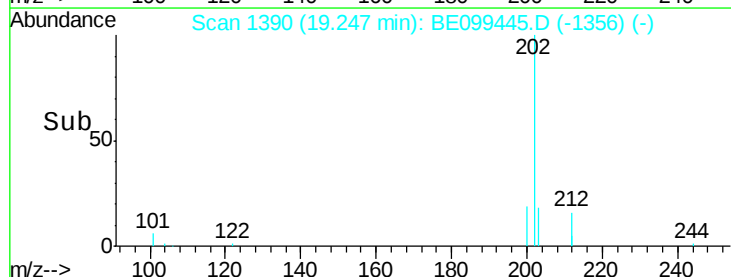
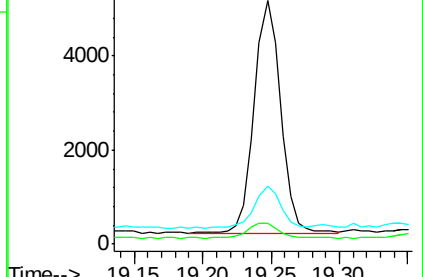
203 18.7 13.9 20.9

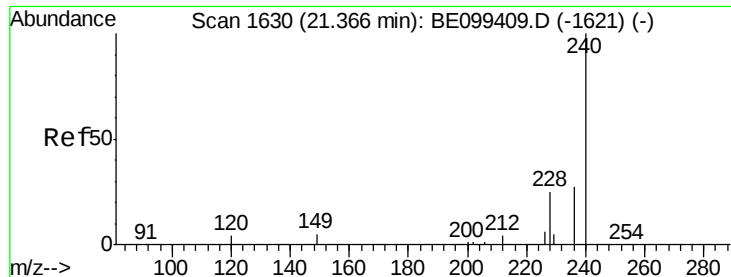


Abundance Ion 202.00 (201.70 to 202.70): E

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# 1631

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

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ClientSampleId :

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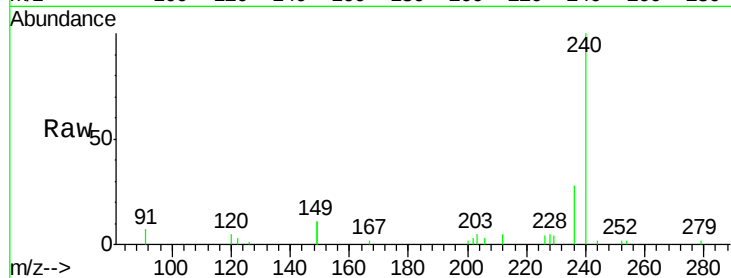
Tot Ion:240 Resp: 30633

Ion Ratio Lower Upper

240 100

120 4.7 4.0 6.0

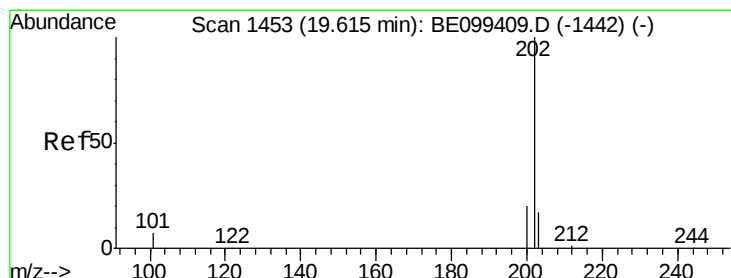
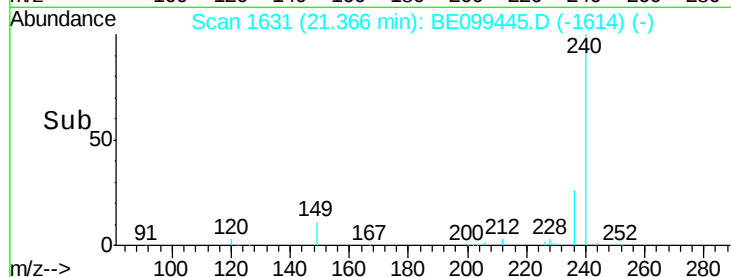
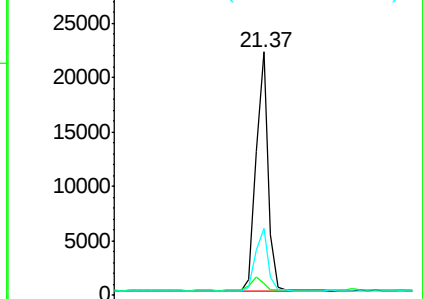
236 27.7 22.0 33.0



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

Pyrene

Concen: 0.102 ng

RT: 19.61 min Scan# 1453

Delta R.T. -0.01 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

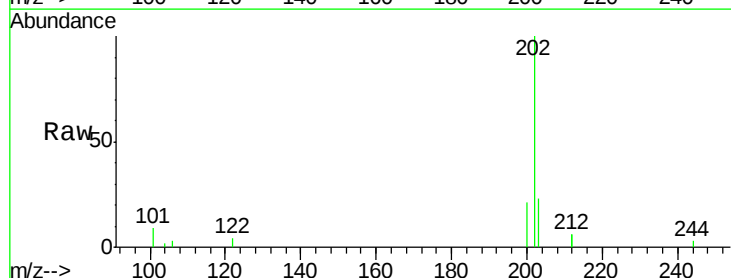
Tgt Ion:202 Resp: 8134

Ion Ratio Lower Upper

202 100

200 20.2 15.7 23.5

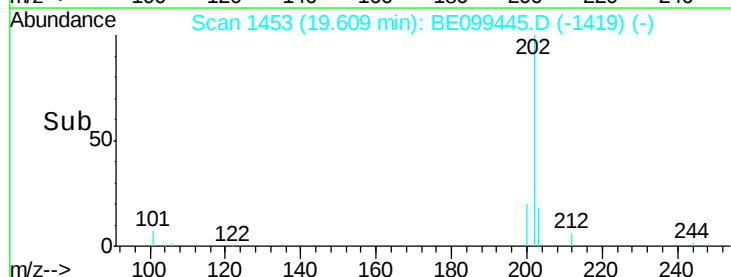
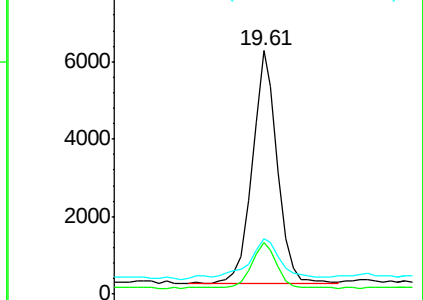
203 22.8 13.9 20.9#

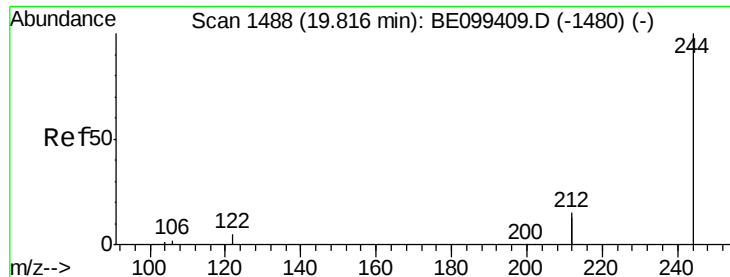


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.441 ng

RT: 19.81 min Scan# 1488

Delta R.T. -0.01 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

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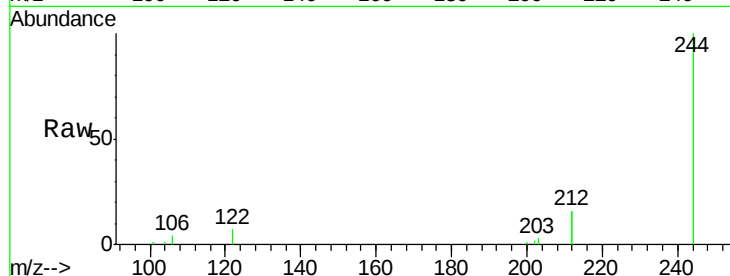
Tot Ion:244 Resp: 24745

Ion Ratio Lower Upper

244 100

212 31.4 23.2 34.8

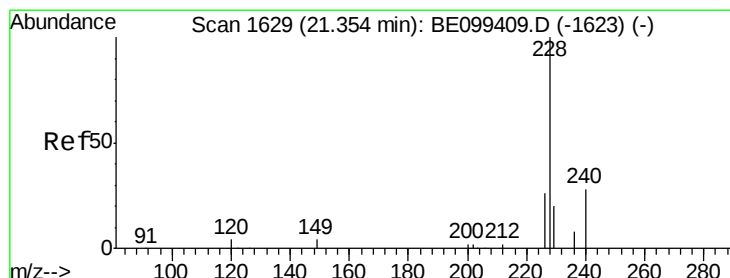
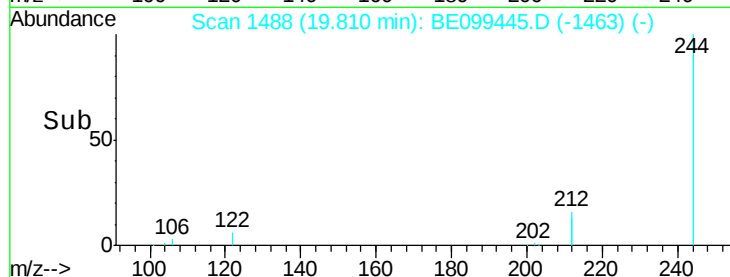
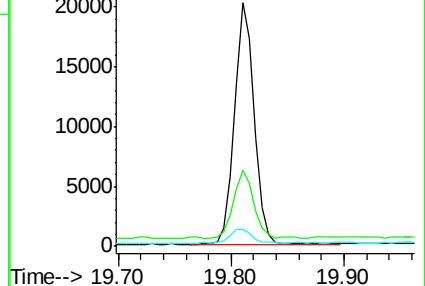
122 7.0 4.2 6.4#



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: 0.049 ng

RT: 21.34 min Scan# 1629

Delta R.T. -0.01 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

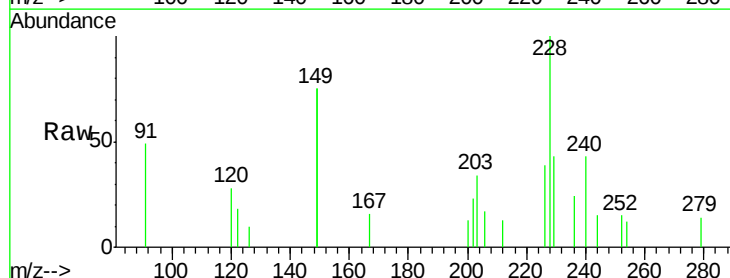
Tgt Ion:228 Resp: 4762

Ion Ratio Lower Upper

228 100

226 39.3 21.0 31.6#

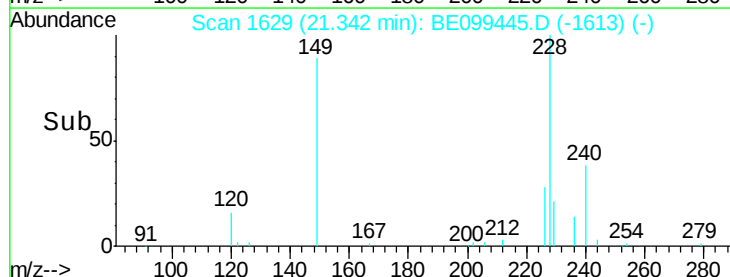
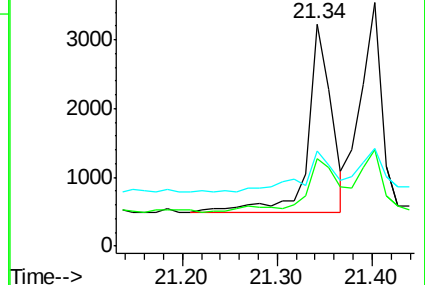
229 42.9 16.6 25.0#

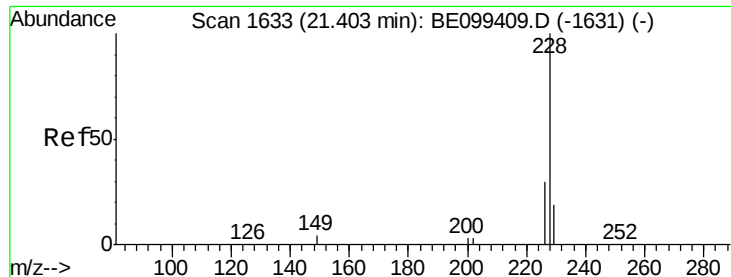


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.052 ng

RT: 21.40 min Scan# 1634

Delta R.T. -0.00 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219

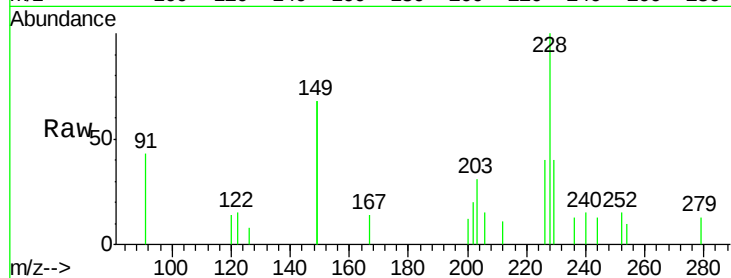
Tot Ion:228 Resp: 4950

Ion Ratio Lower Upper

228 100

226 39.7 24.0 36.0#

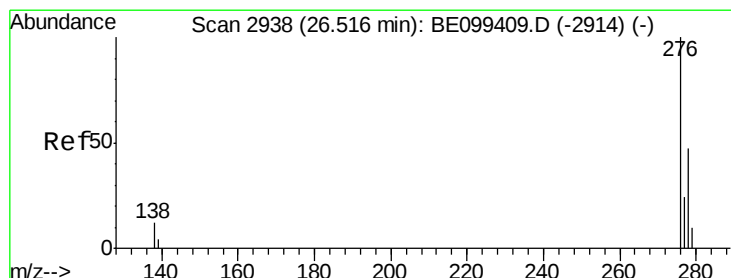
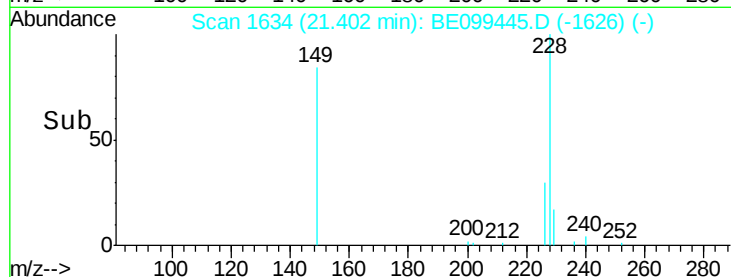
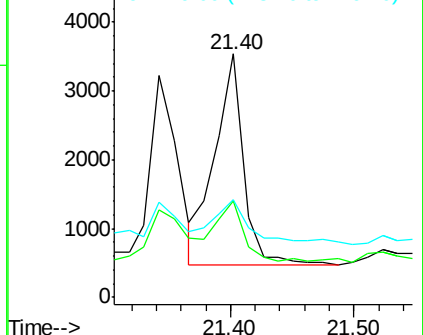
229 40.1 15.8 23.8#



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



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.026 ng

RT: 26.50 min Scan# 2934

Delta R.T. -0.02 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

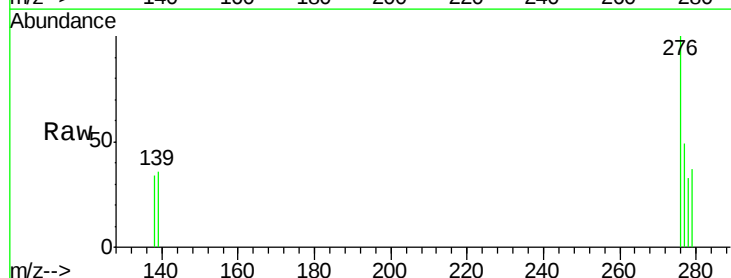
Tgt Ion:276 Resp: 2981

Ion Ratio Lower Upper

276 100

138 6.9 10.2 15.2#

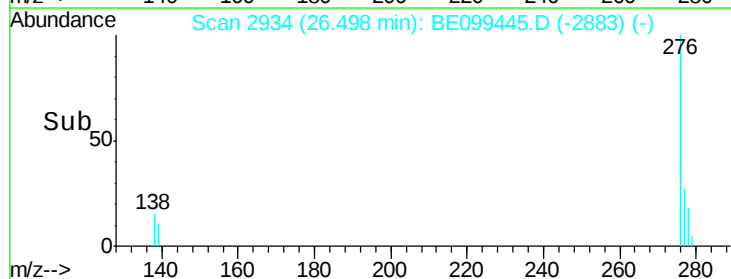
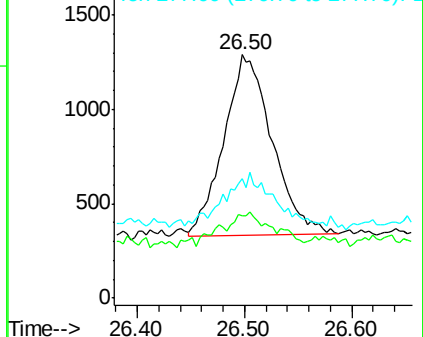
277 8.9 19.2 28.8#

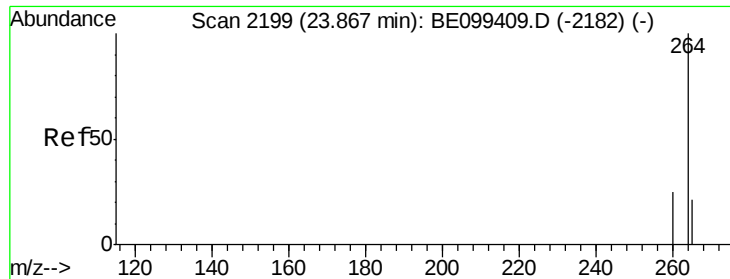


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

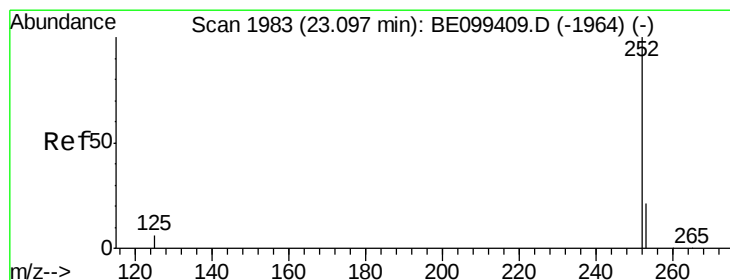
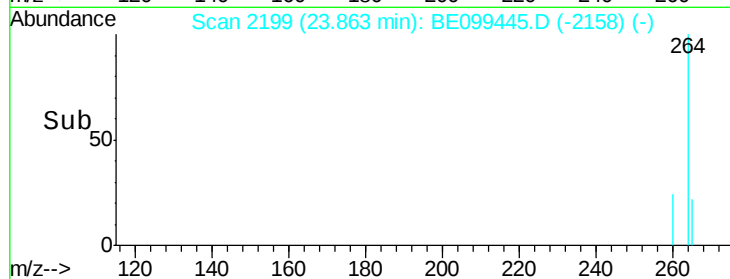
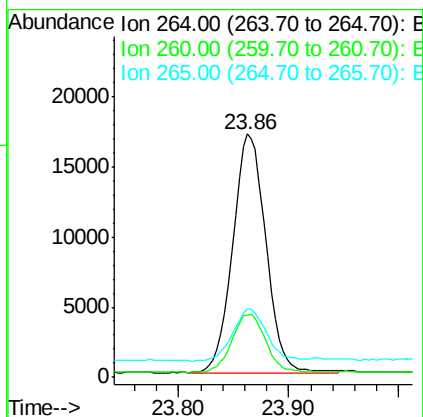
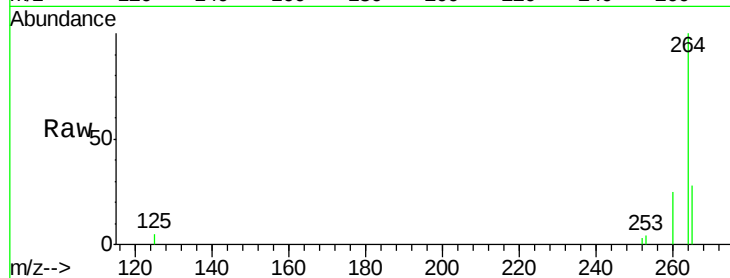




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.86 min Scan# 2199
Delta R.T. -0.00 min
Lab File: BE099445.D
Acq: 1 May 2019 3:03

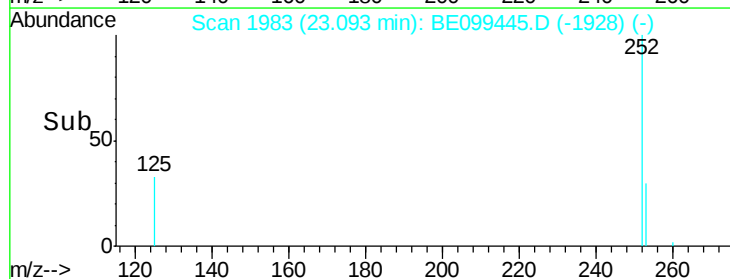
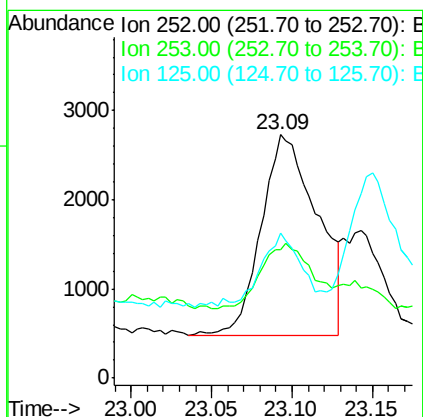
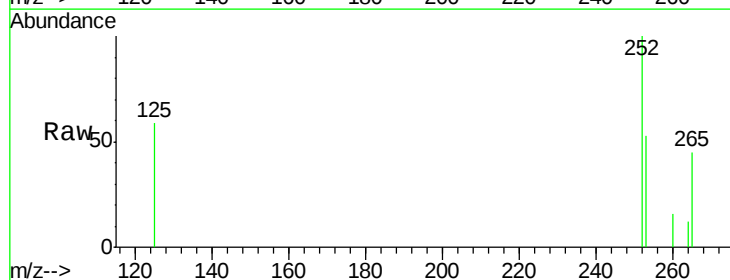
Instrument :
BNA_E
ClientSampleId :
EXT-026-SW045-042219

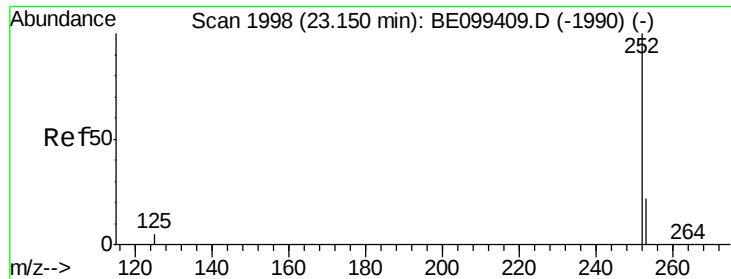
Tot Ion:264 Resp: 35458
Ion Ratio Lower Upper
264 100
260 25.4 20.2 30.2
265 28.2 21.3 31.9



#35
Benzo(b)fluoranthene
Concen: 0.054 ng
RT: 23.09 min Scan# 1983
Delta R.T. -0.00 min
Lab File: BE099445.D
Acq: 1 May 2019 3:03

Tgt Ion:252 Resp: 5511
Ion Ratio Lower Upper
252 100
253 52.9 18.1 27.1#
125 59.4 5.6 8.4#

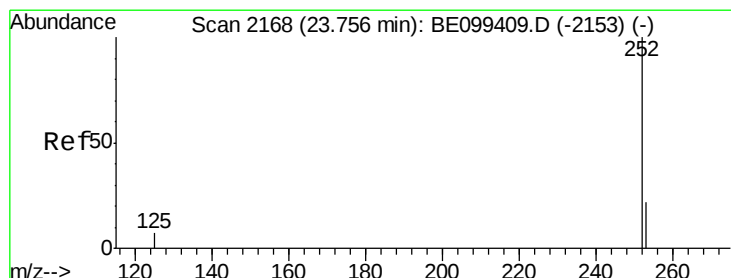
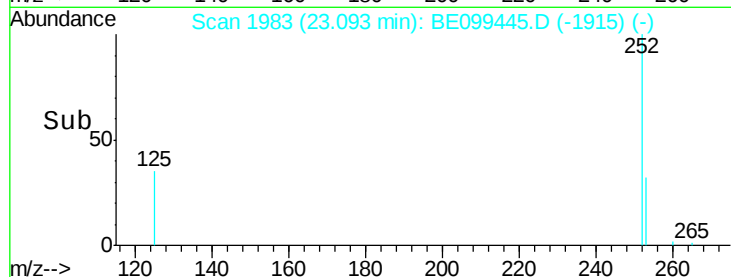
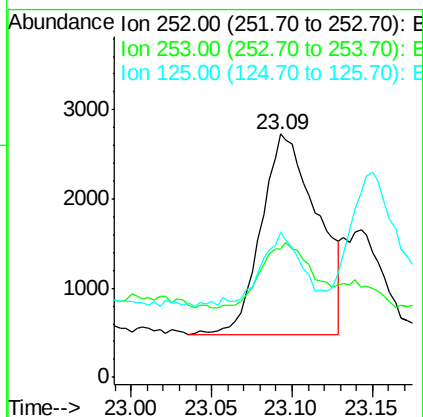
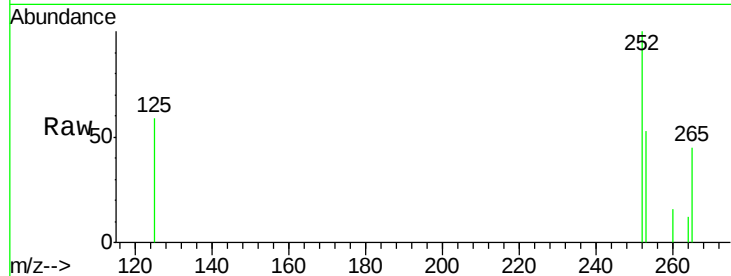




#36
Benzo(k)fluoranthene
Concen: 0.056 ng
RT: 23.09 min Scan# 1983
Delta R.T. -0.06 min
Lab File: BE099445.D
Acq: 1 May 2019 3:03

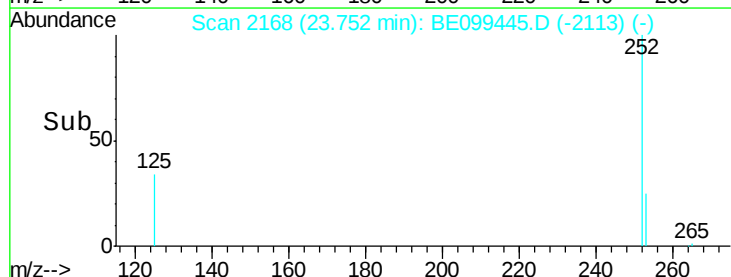
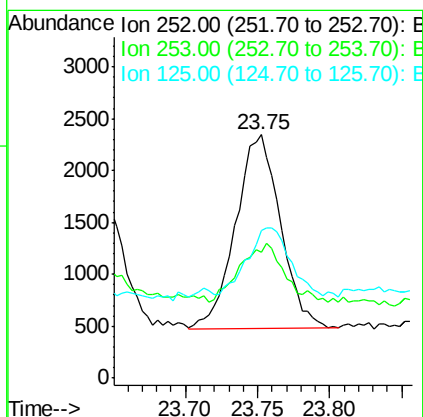
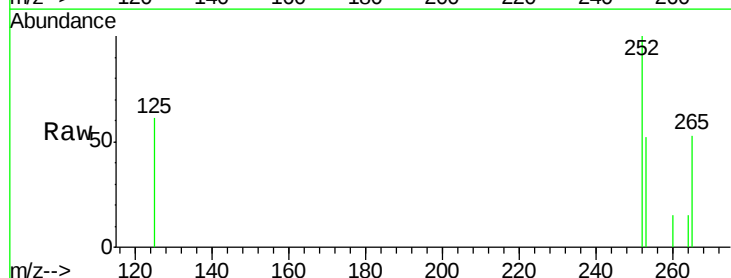
Instrument :
BNA_E
ClientSampleId :
EXT-026-SW045-042219

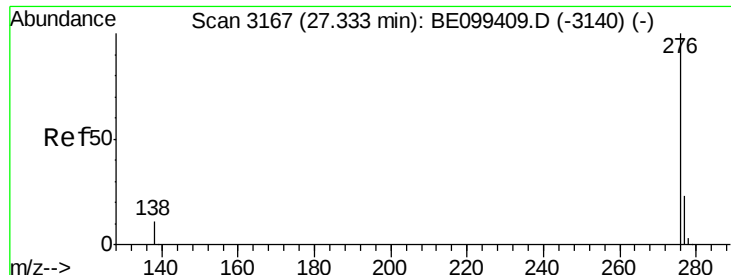
Tot Ion:252 Resp: 5511
Ion Ratio Lower Upper
252 100
253 52.9 18.4 27.6#
125 59.4 5.0 7.4#



#37
Benzo(a)pyrene
Concen: 0.041 ng
RT: 23.75 min Scan# 2168
Delta R.T. -0.00 min
Lab File: BE099445.D
Acq: 1 May 2019 3:03

Tgt Ion:252 Resp: 3948
Ion Ratio Lower Upper
252 100
253 51.9 18.9 28.3#
125 60.7 6.7 10.1#





#39

Benzo(a,h,i)perylene

Concen: 0.030 ng

RT: 27.32 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BE099445.D

Acq: 1 May 2019 3:03

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW045-042219

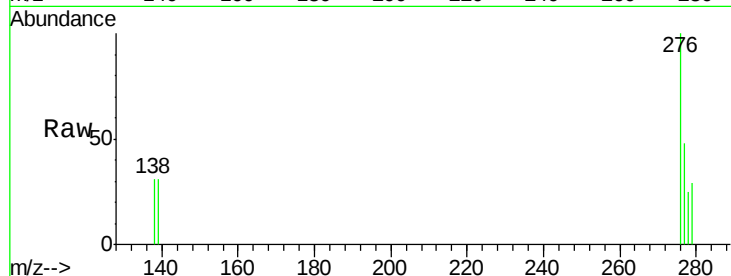
Tot Ion: 276 Resp: 3000

Ion Ratio Lower Upper

276 100

277 48.2 19.5 29.3#

138 30.7 9.6 14.4#



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

