

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE043019\
 Data File : BE099443.D
 Acq On : 1 May 2019 1:51
 Operator : JU/SJ
 Sample : K2568-09
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-026-SW044-042219

Quant Time: May 01 06:55:43 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	2361	0.40	ng	0.00
7) Naphthalene-d8	10.60	136	9337	0.40	ng	0.00
13) Acenaphthene-d10	14.46	164	7412	0.40	ng	0.00
19) Phenanthrene-d10	17.19	188	23190	0.40	ng	0.00
27) Chrysene-d12	21.37	240	29078	0.40	ng	0.00
34) Perylene-d12	23.86	264	33242	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	1528	0.23	ng	0.00
5) Phenol-d6	6.97	99	2399	0.28	ng	0.00
8) Nitrobenzene-d5	8.96	82	1963	0.22	ng	0.00
11) 2-Methylnaphthalene-d10	12.19	152	3724	0.22	ng	0.00
14) 2,4,6-Tribromophenol	15.94	330	1221	0.26	ng	0.00
15) 2-Fluorobiphenyl	13.07	172	5605	0.20	ng	-0.02
25) Fluoranthene-d10	19.21	212	63898	0.20	ng	0.00
29) Terphenyl-d14	19.81	244	13843	0.26	ng	0.00

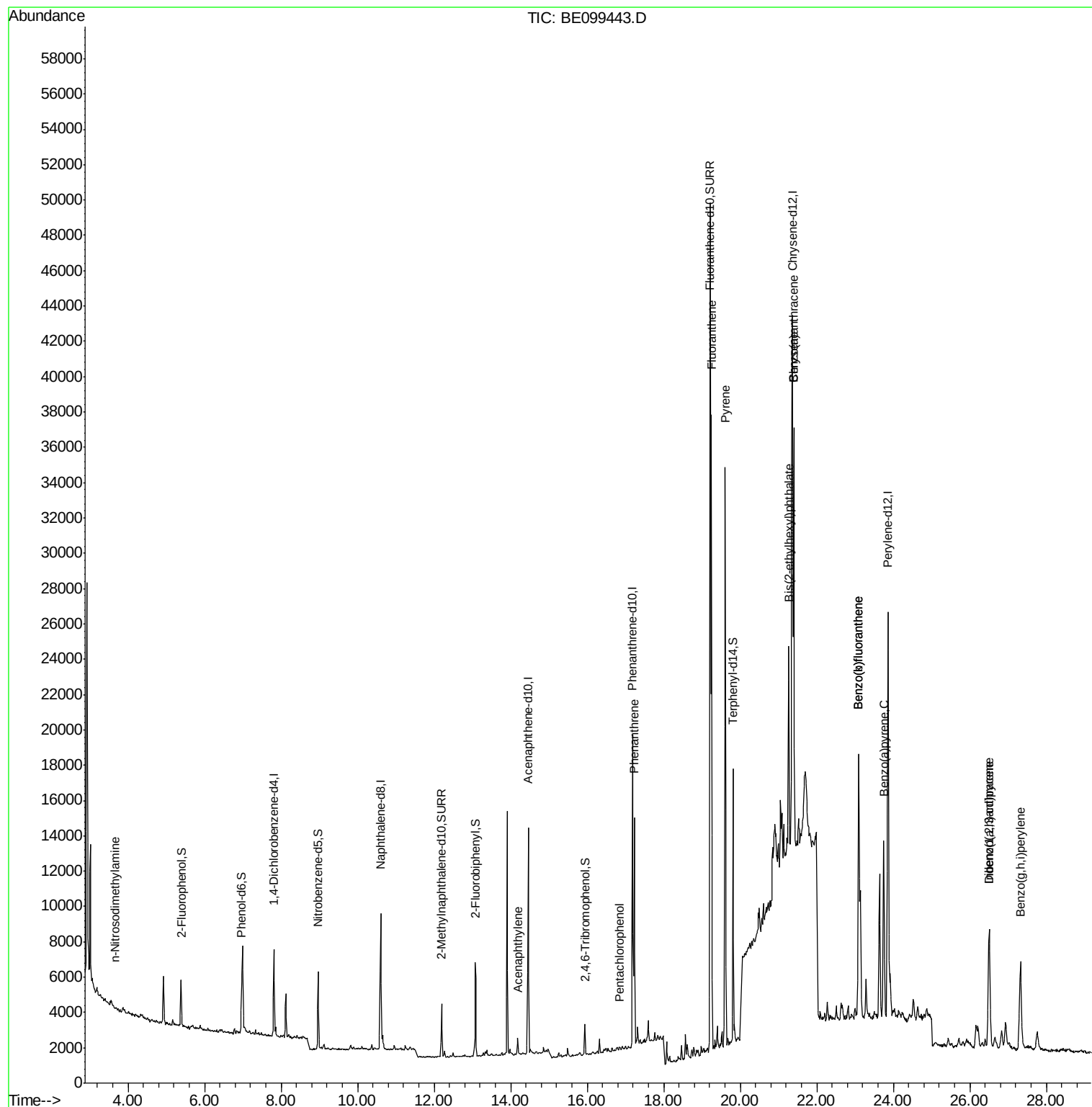
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.67	42	43	0.022	ng	# 1
16) Acenaphthylene	14.18	152	1341	0.037	ng	98
22) Pentachlorophenol	16.84	266	22	0.219	ng	# 56
23) Phenanthrene	17.23	178	12785	0.214	ng	100
26) Fluoranthene	19.25	202	33550	0.374	ng	100
28) Pyrene	19.61	202	32136	0.424	ng	96
30) Benzo(a)anthracene	21.40	228	23288	0.251	ng	91
31) Chrysene	21.40	228	23154	0.255	ng	# 94
32) Bis(2-ethylhexyl)phthalate	21.27	149	18269	0.068	ng	97
33) Indeno(1,2,3-cd)pyrene	26.51	276	12733	0.119	ng	99
35) Benzo(b)fluoranthene	23.09	252	27027	0.282	ng	# 79
36) Benzo(k)fluoranthene	23.09	252	26961	0.292	ng	# 79
37) Benzo(a)pyrene	23.75	252	15536	0.171	ng	# 79
38) Dibenzo(a,h)anthracene	26.51	278	3381	0.036	ng	# 22
39) Benzo(a,h,i)perylene	27.32	276	12508	0.135	ng	# 87

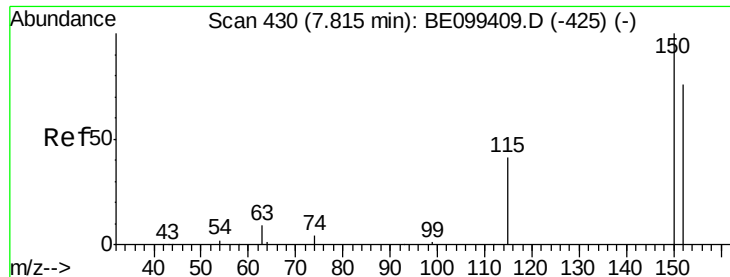
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.81 min Scan# 429

Delta R.T. -0.01 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

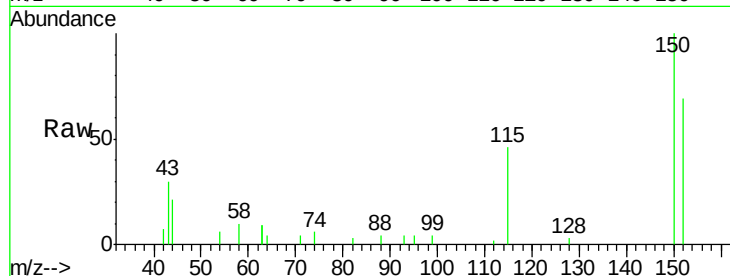
Tot Ion:152 Resp: 2361

Ion Ratio Lower Upper

152 100

150 145.2 104.8 157.2

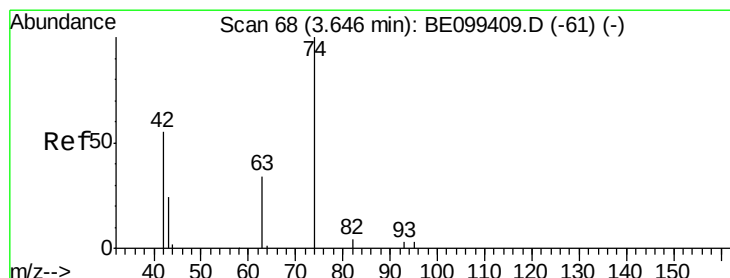
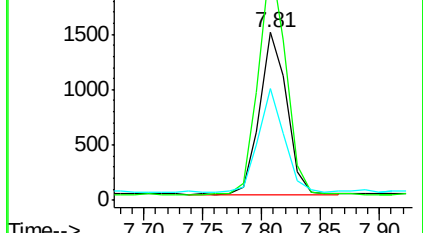
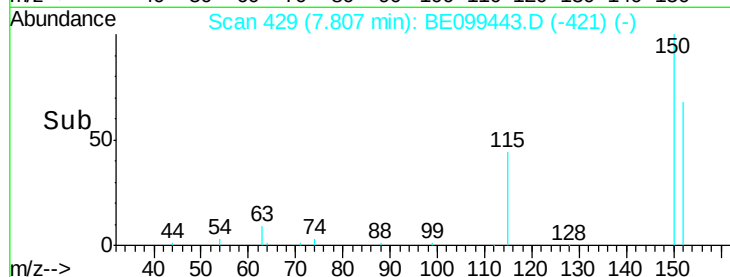
115 66.4 46.6 69.8



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



#3

n-Nitrosodimethylamine

Concen: 0.022 ng

RT: 3.67 min Scan# 70

Delta R.T. 0.03 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

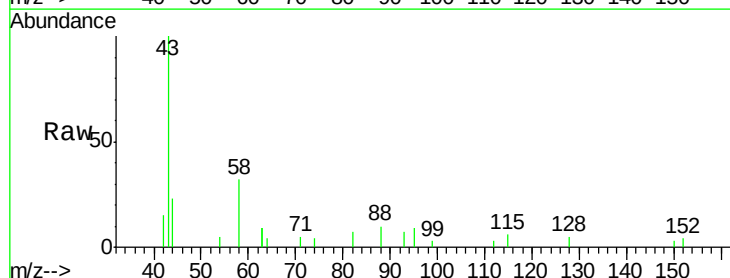
Tgt Ion: 42 Resp: 43

Ion Ratio Lower Upper

42 100

74 0.0 141.6 212.4#

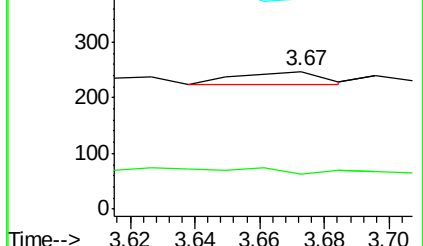
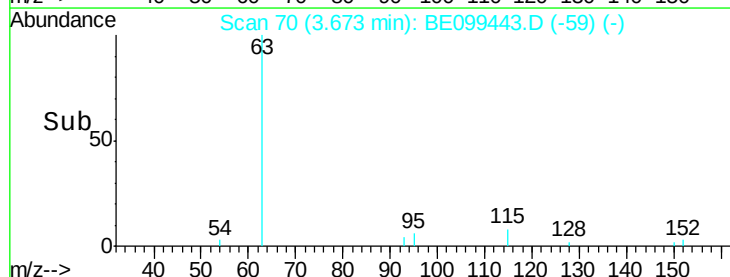
44 0.0 0.0 0.0

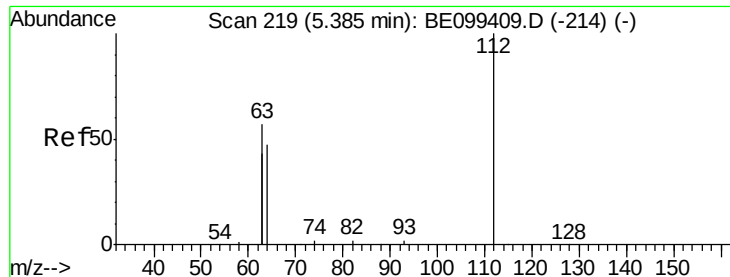


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.234 ng

RT: 5.39 min Scan# 219

Delta R.T. 0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

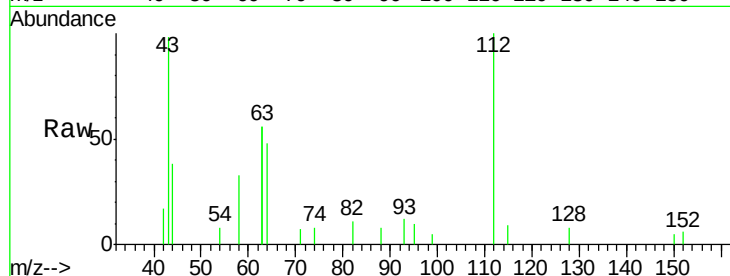
Tot Ion:112 Resp: 1528

Ion Ratio Lower Upper

112 100

64 57.9 47.4 71.0

63 136.3 104.3 156.5



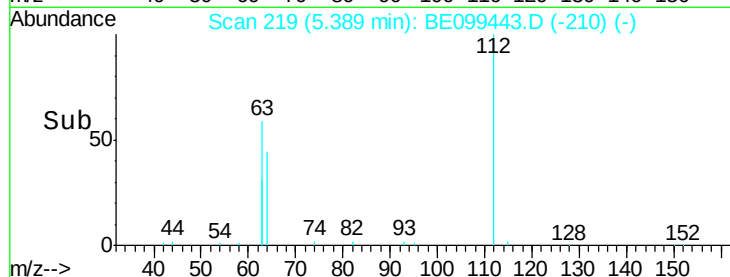
Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

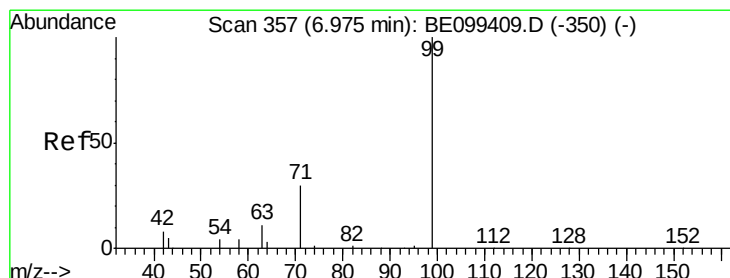
Ion 63.00 (62.70 to 63.70): BE0

Time-->

5.30 5.40



Time-->



#5

Phenol-d6

Concen: 0.276 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

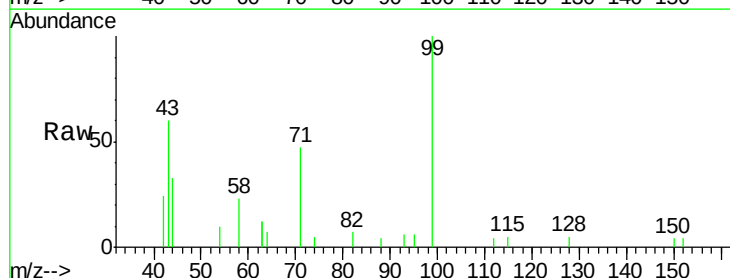
Tgt Ion: 99 Resp: 2399

Ion Ratio Lower Upper

99 100

42 20.8 14.9 22.3

71 42.9 33.0 49.6



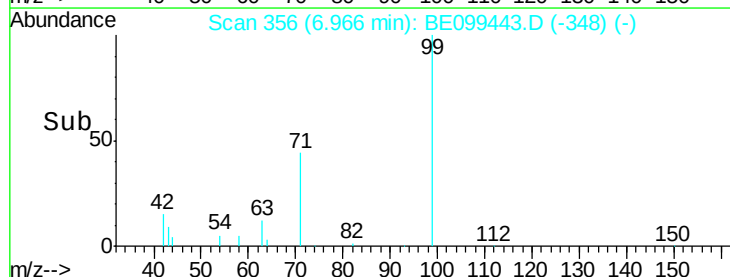
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

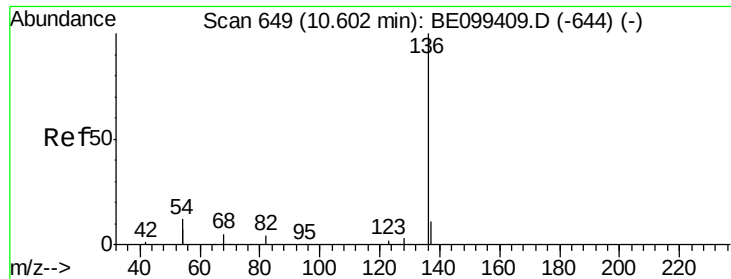
Ion 71.00 (70.70 to 71.70): BE0

Time-->

6.90 7.00 7.10



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

Tot Ion:136 Resp: 9337

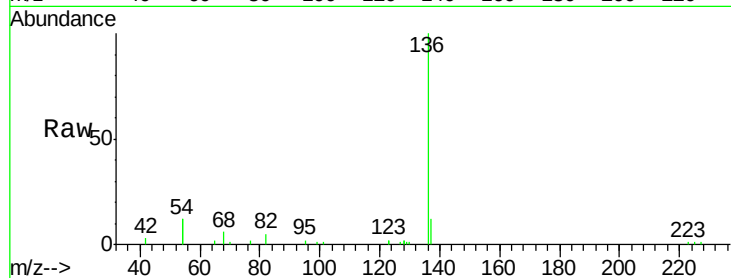
Ion Ratio Lower Upper

136 100

137 11.5 9.8 14.8

54 23.3 18.5 27.7

68 5.9 4.7 7.1

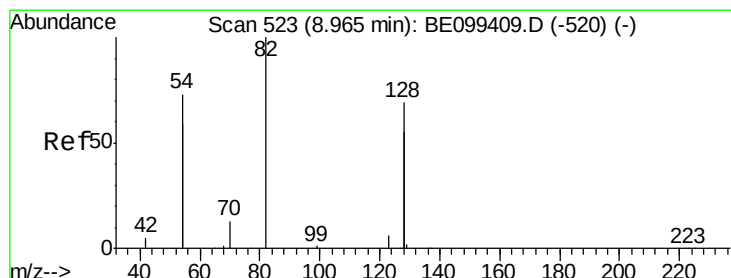
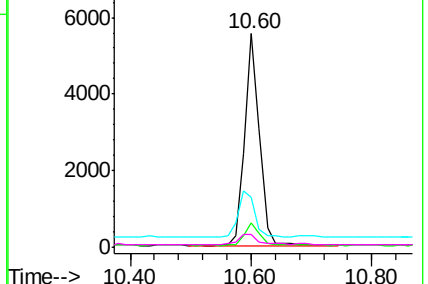
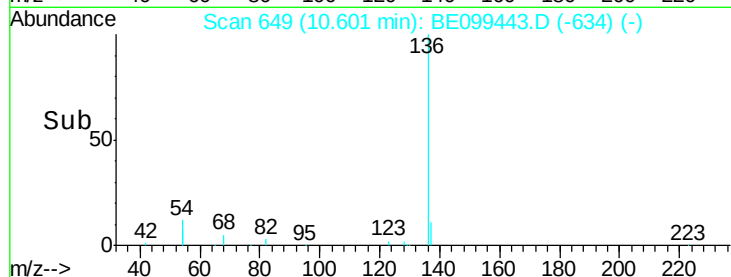


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.224 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

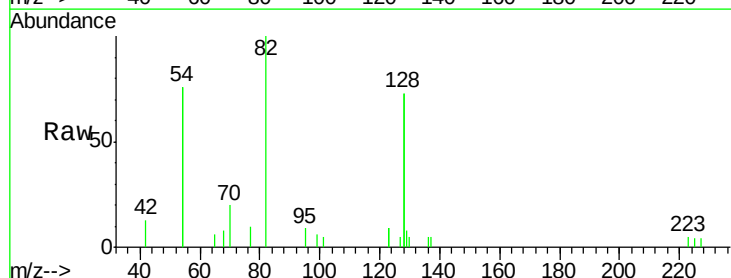
Tgt Ion: 82 Resp: 1963

Ion Ratio Lower Upper

82 100

128 145.3 107.0 160.4

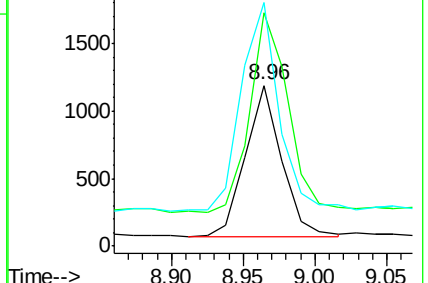
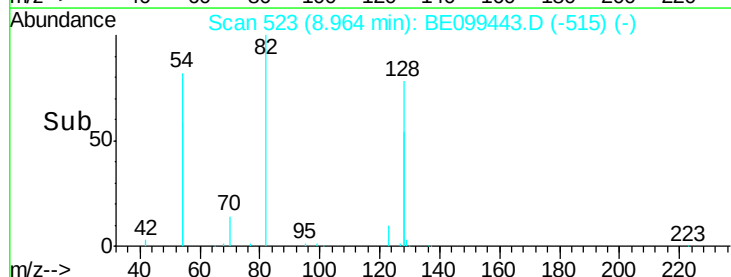
54 151.7 113.1 169.7

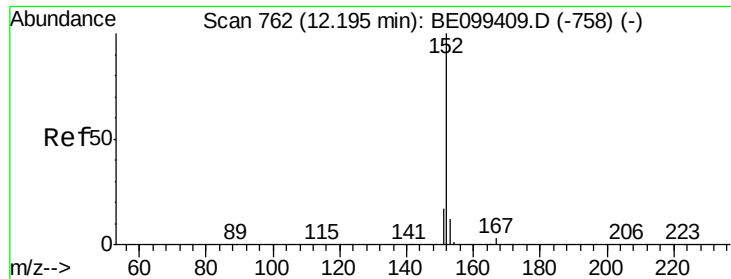


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

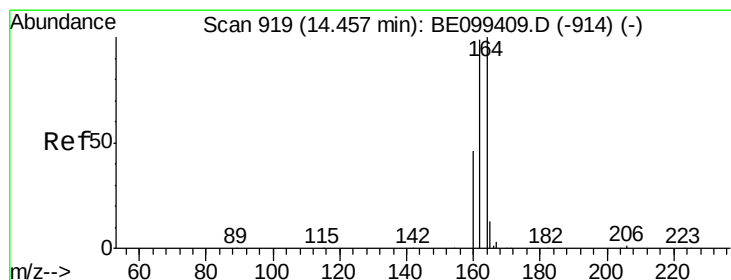
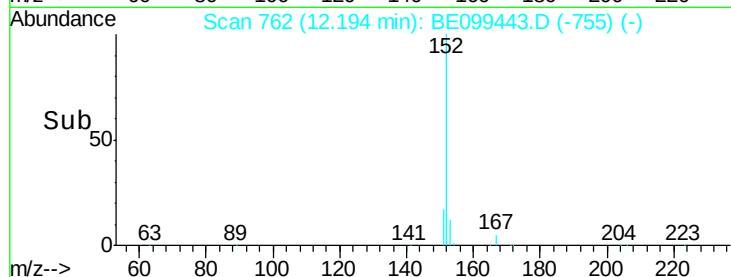
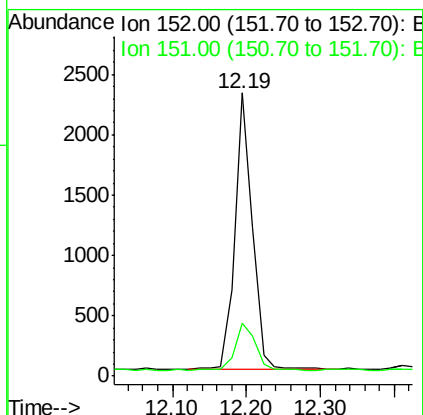
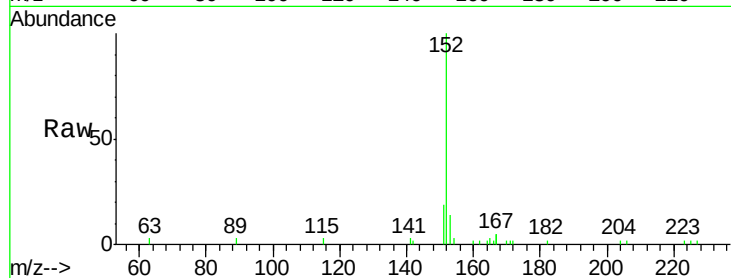




#11
 2-Methylnaphthalene-d10
 Concen: 0.221 ng
 RT: 12.19 min Scan# 762
 Delta R.T. -0.00 min
 Lab File: BE099443.D
 Acq: 1 May 2019 1:51

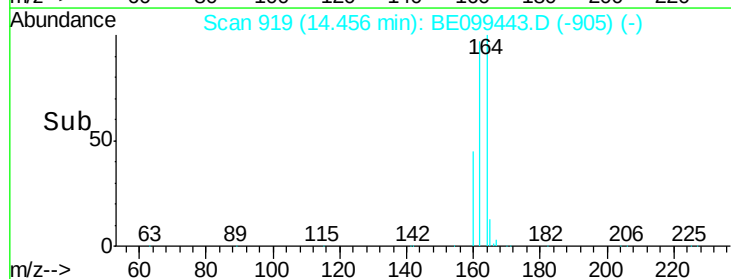
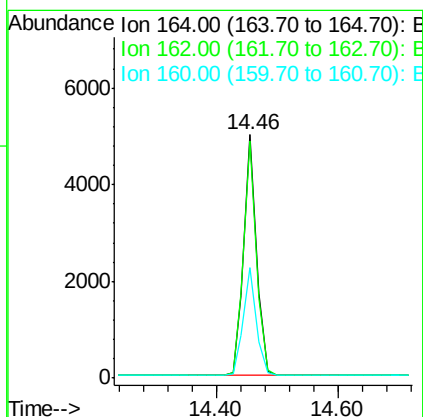
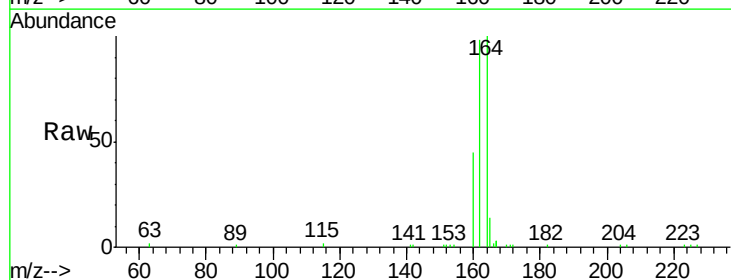
Instrument :
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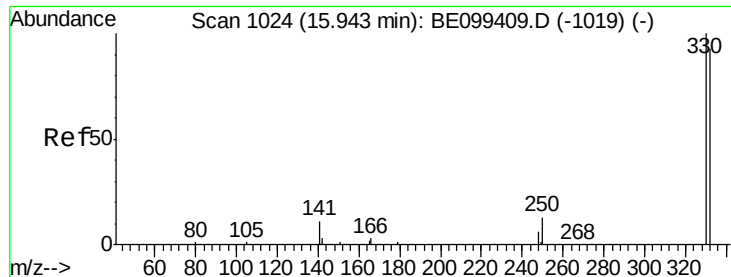
Tot Ion:152 Resp: 3724
 Ion Ratio Lower Upper
 152 100
 151 19.4 15.5 23.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: BE099443.D
 Acq: 1 May 2019 1:51

Tgt Ion:164 Resp: 7412
 Ion Ratio Lower Upper
 164 100
 162 97.6 79.0 118.4
 160 45.4 37.0 55.4

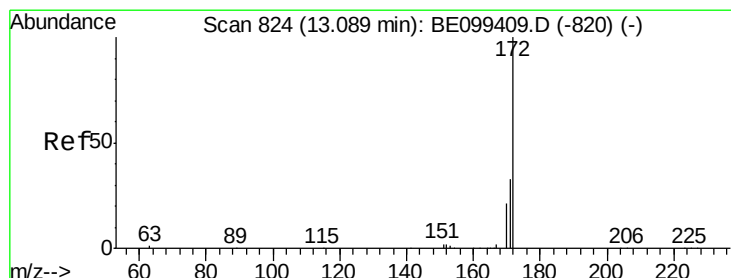
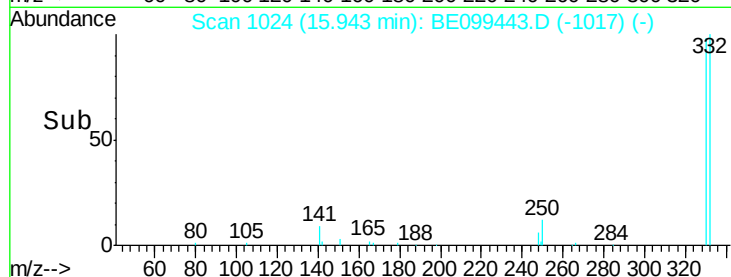
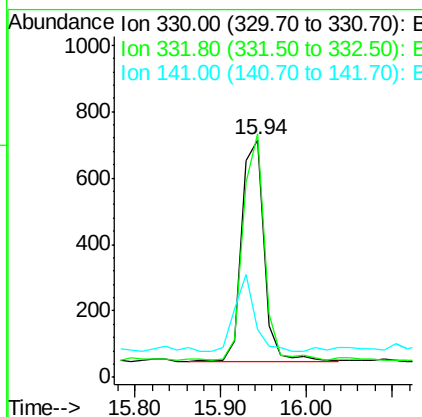
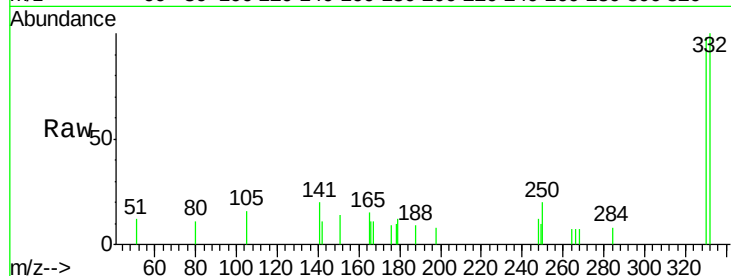




#14
 2,4,6-Tribromophenol
 Concen: 0.262 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. 0.00 min
 Lab File: BE099443.D
 Acq: 1 May 2019 1:51

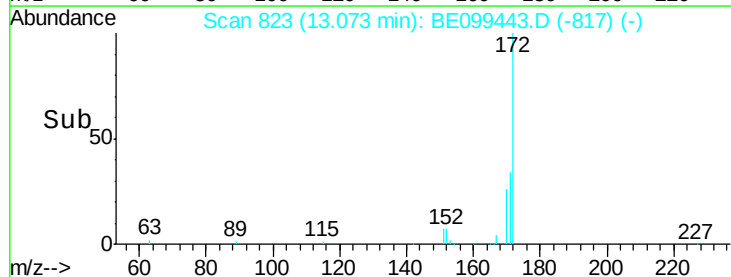
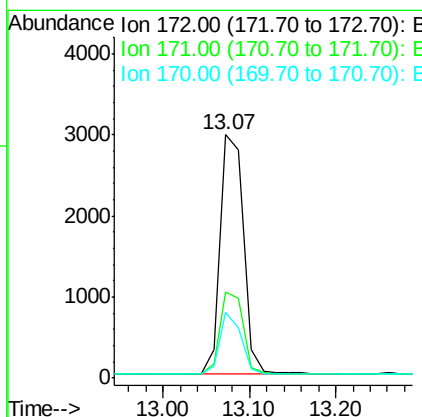
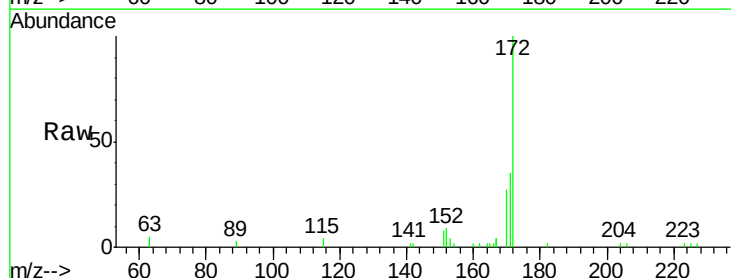
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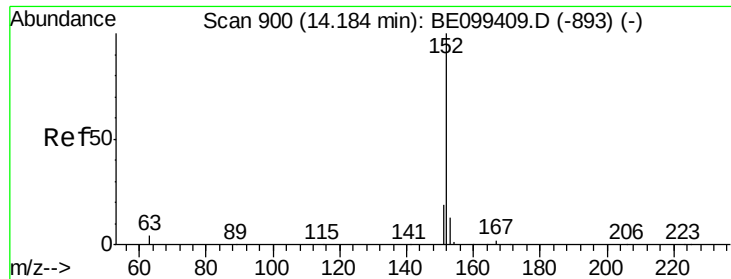
Tot Ion:330 Resp: 1221
 Ion Ratio Lower Upper
 330 100
 332 95.7 71.5 107.3
 141 30.8 24.0 36.0



#15
 2-Fluorobiphenyl
 Concen: 0.198 ng
 RT: 13.07 min Scan# 823
 Delta R.T. -0.02 min
 Lab File: BE099443.D
 Acq: 1 May 2019 1:51

Tgt Ion:172 Resp: 5605
 Ion Ratio Lower Upper
 172 100
 171 35.3 26.6 39.8
 170 26.8 17.0 25.6#

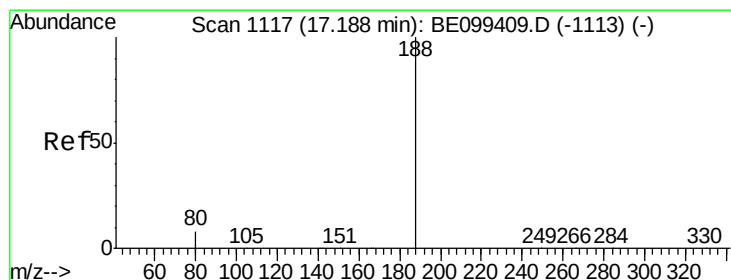
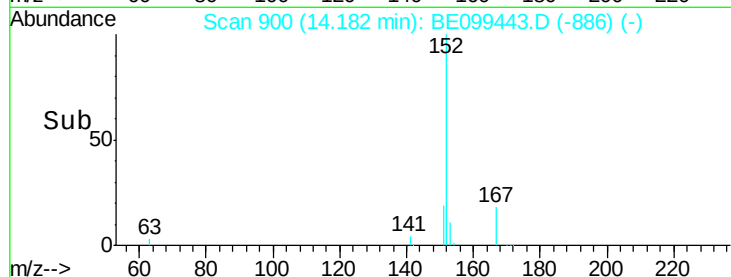
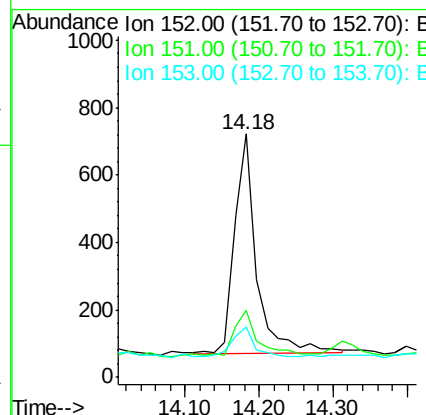
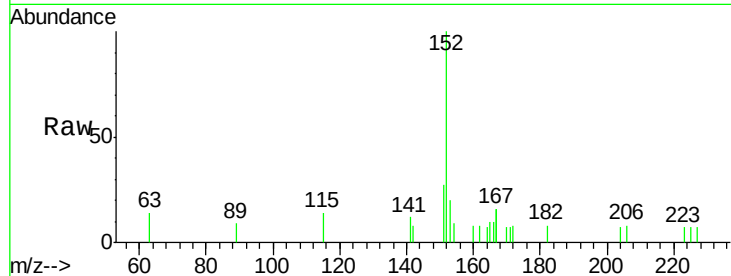




#16
Acenaphthylene
Concen: 0.037 ng
RT: 14.18 min Scan# 900
Delta R.T. -0.00 min
Lab File: BE099443.D
Acq: 1 May 2019 1:51

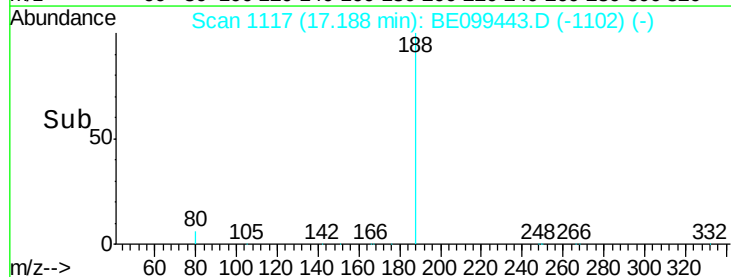
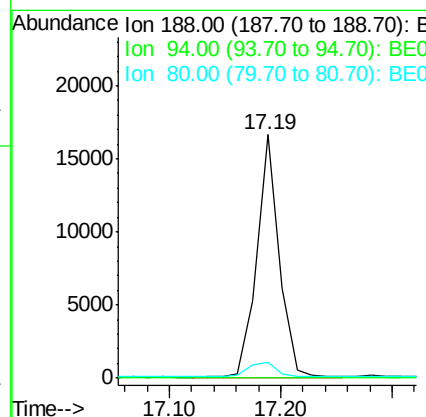
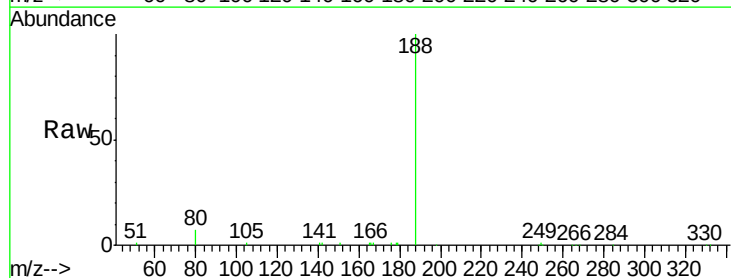
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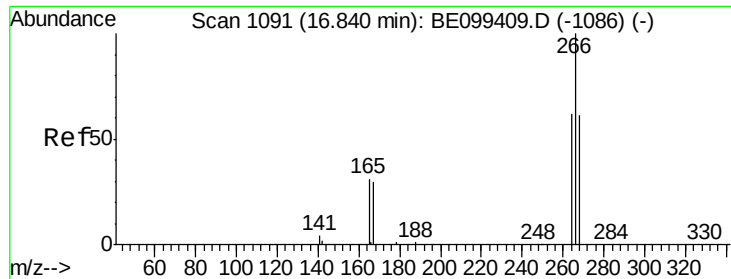
Tot Ion:152 Resp: 1341
Ion Ratio Lower Upper
152 100
151 20.1 15.4 23.2
153 13.6 9.8 14.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.19 min Scan# 1117
Delta R.T. 0.00 min
Lab File: BE099443.D
Acq: 1 May 2019 1:51

Tgt Ion:188 Resp: 23190
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.6 6.7 10.1#





#22

Pentachlorophenol

Concen: 0.219 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

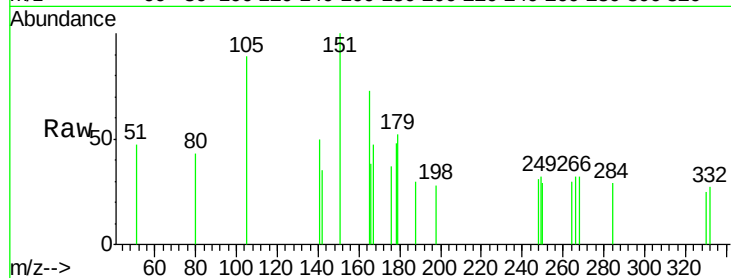
Tot Ion:266 Resp: 22

Ion Ratio Lower Upper

266 100

264 93.9 50.8 76.2#

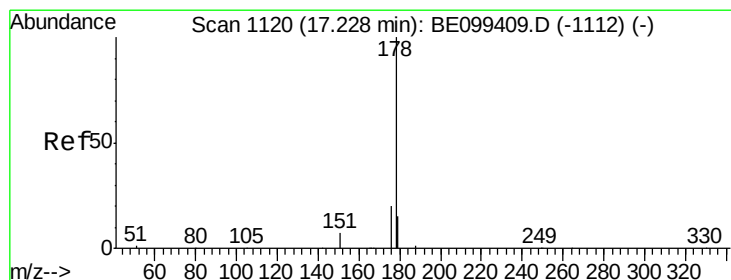
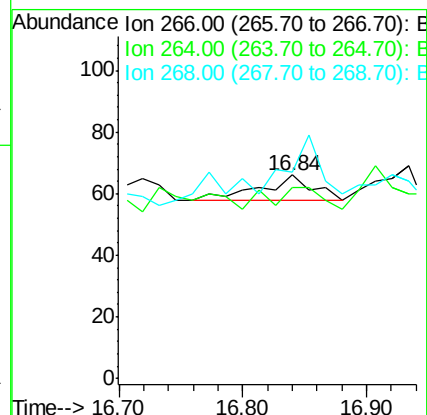
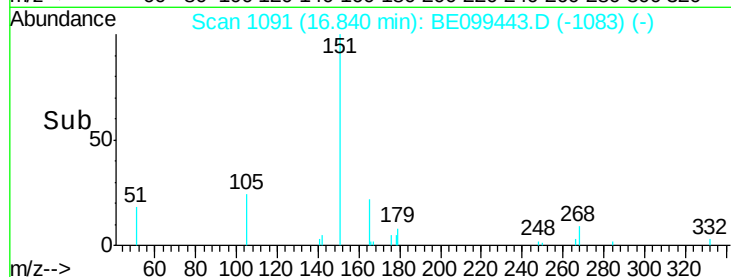
268 101.5 50.5 75.7#



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: 0.214 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

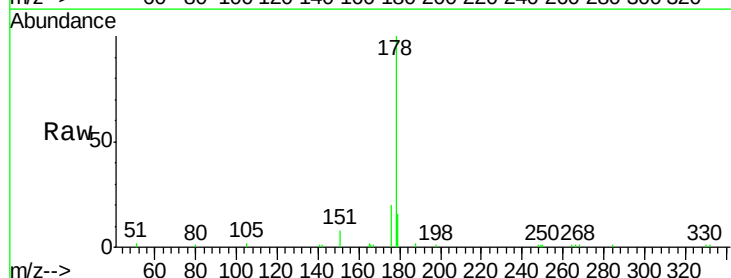
Tgt Ion:178 Resp: 12785

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

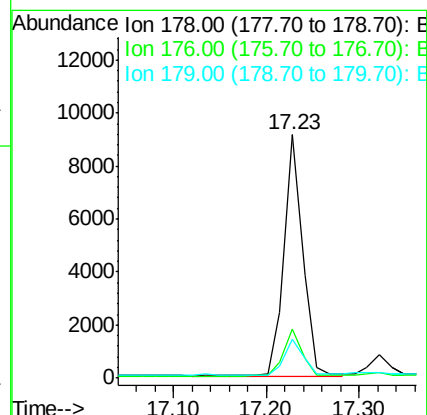
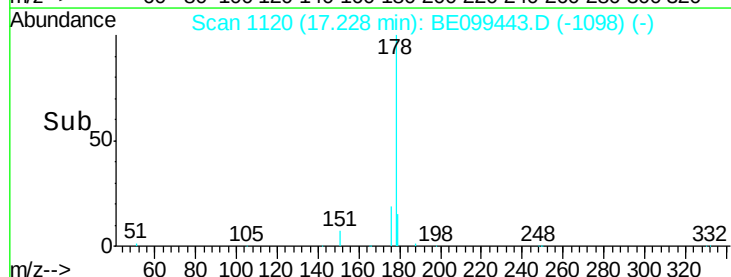
179 15.1 12.0 18.0

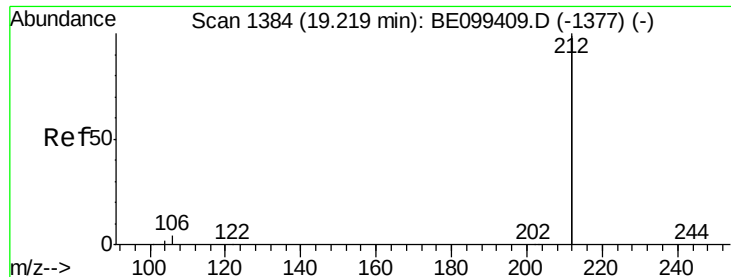


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.204 ng

RT: 19.21 min Scan# 1383

Delta R.T. -0.01 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

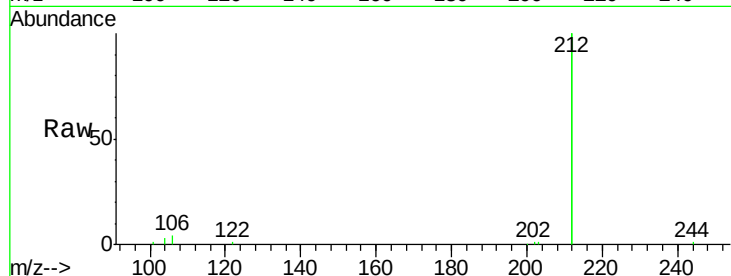
Tot Ion:212 Resp: 63898

Ion Ratio Lower Upper

212 100

106 1.9 1.5 2.3

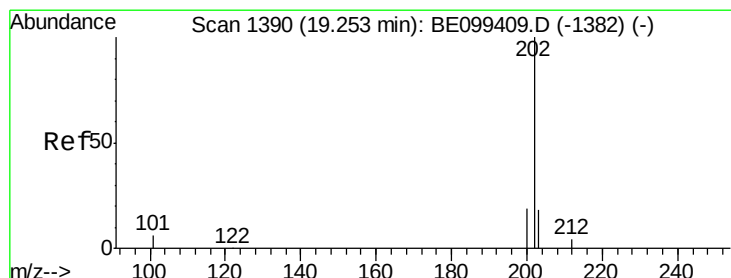
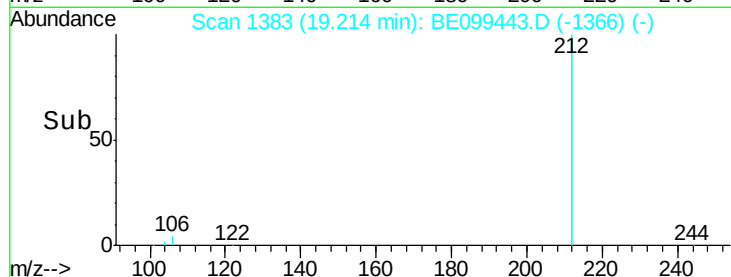
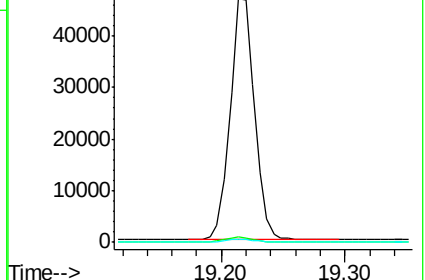
104 1.3 0.9 1.3



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: 0.374 ng

RT: 19.25 min Scan# 1389

Delta R.T. -0.01 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

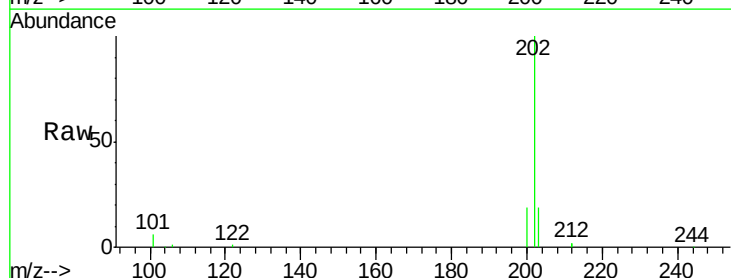
Tgt Ion:202 Resp: 33550

Ion Ratio Lower Upper

202 100

101 6.7 5.4 8.0

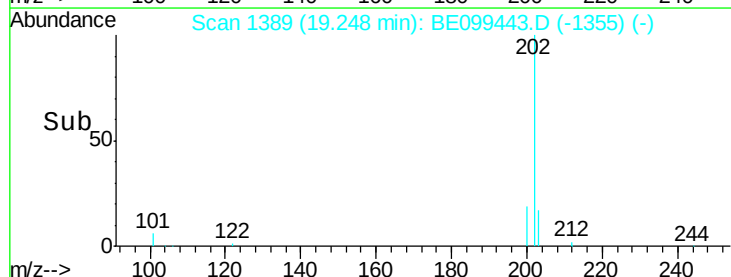
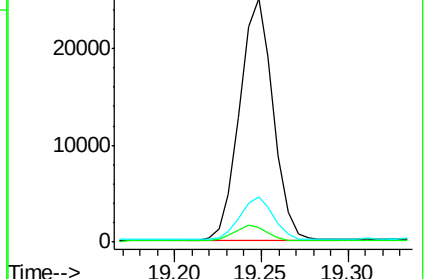
203 17.4 13.9 20.9

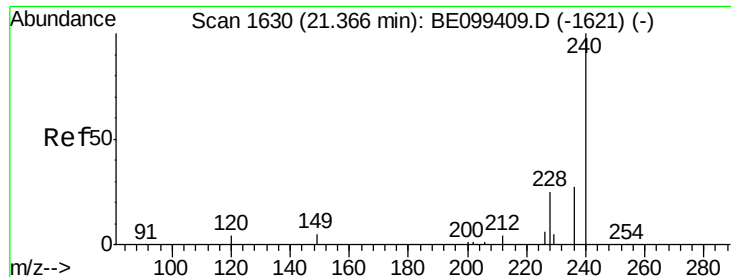


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

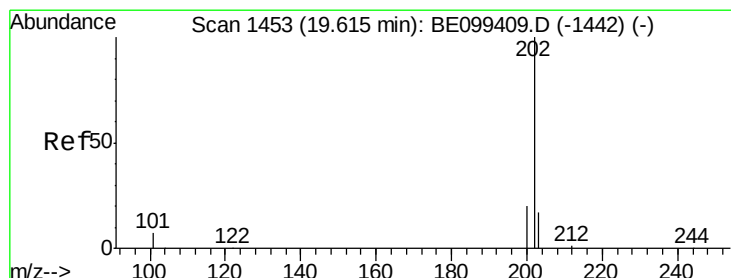
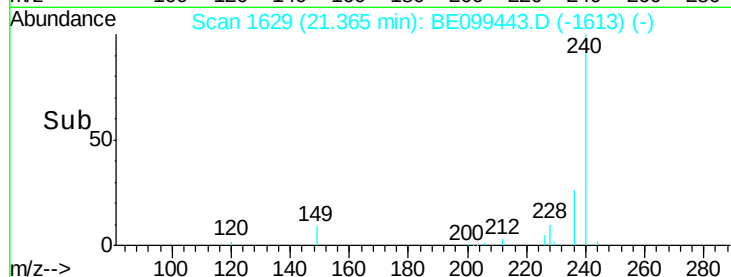
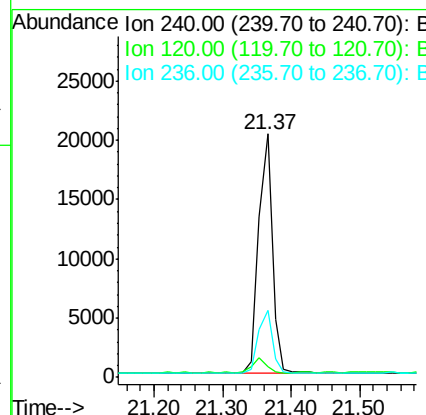
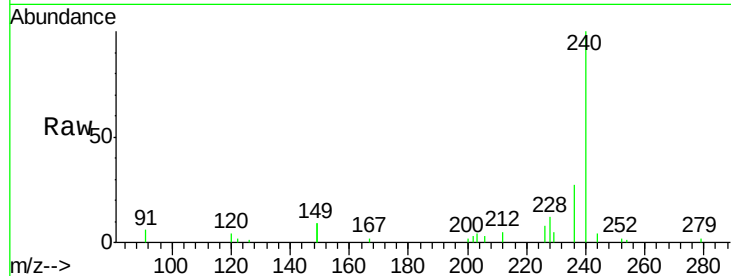




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: BE099443.D
 Acq: 1 May 2019 1:51

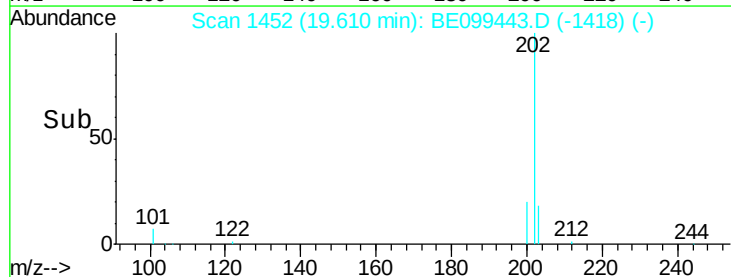
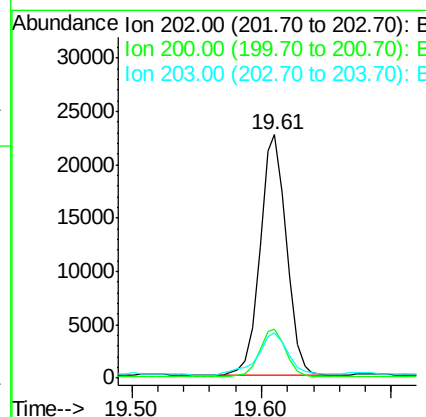
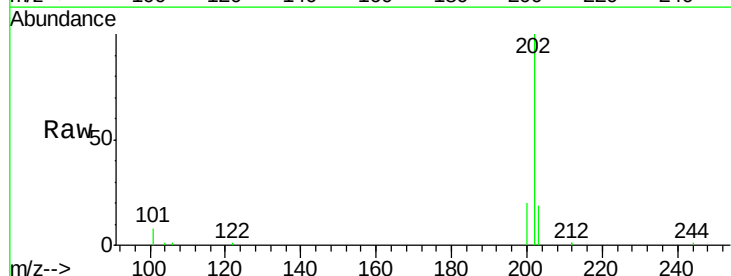
Instrument :
 BNA_E
 ClientSampleId :
 EXT-026-SW044-042219

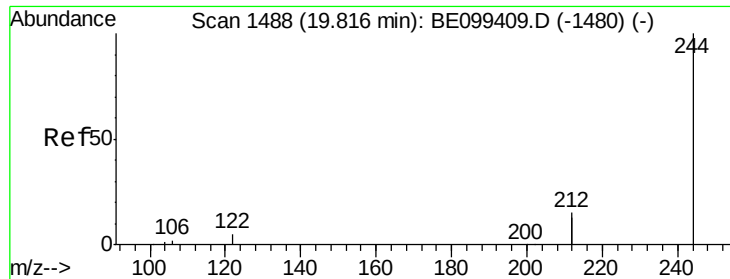
Tot Ion:240 Resp: 29078
 Ion Ratio Lower Upper
 240 100
 120 4.3 4.0 6.0
 236 27.3 22.0 33.0



#28
 Pyrene
 Concen: 0.424 ng
 RT: 19.61 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BE099443.D
 Acq: 1 May 2019 1:51

Tgt Ion:202 Resp: 32136
 Ion Ratio Lower Upper
 202 100
 200 19.8 15.7 23.5
 203 20.6 13.9 20.9





#29

Terphenyl-d14

Concen: 0.260 ng

RT: 19.81 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

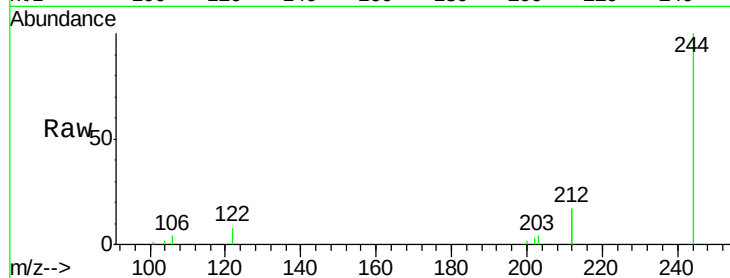
Tot Ion:244 Resp: 13843

Ion Ratio Lower Upper

244 100

212 33.8 23.2 34.8

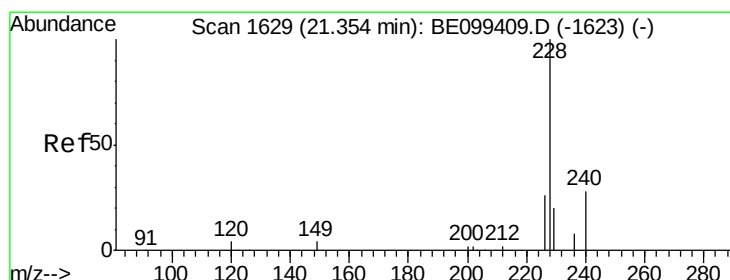
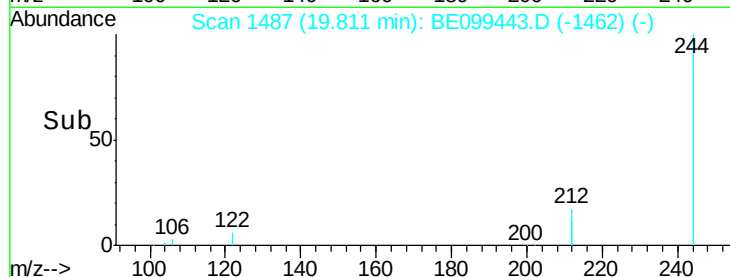
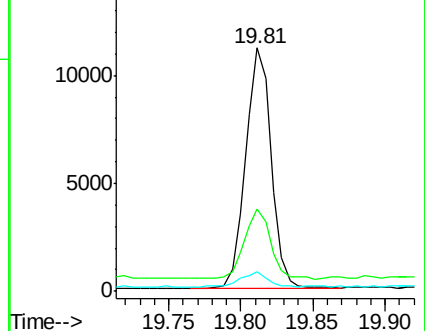
122 8.0 4.2 6.4#



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: 0.251 ng

RT: 21.40 min Scan# 1632

Delta R.T. 0.05 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

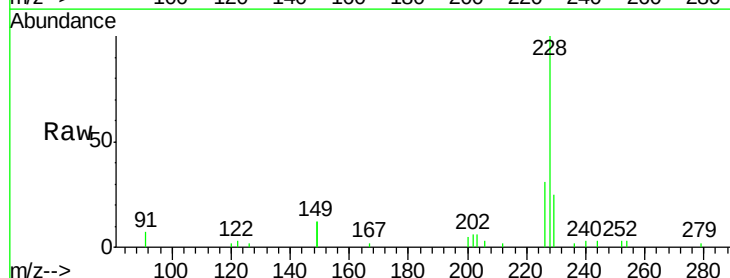
Tgt Ion:228 Resp: 23288

Ion Ratio Lower Upper

228 100

226 31.3 21.0 31.6

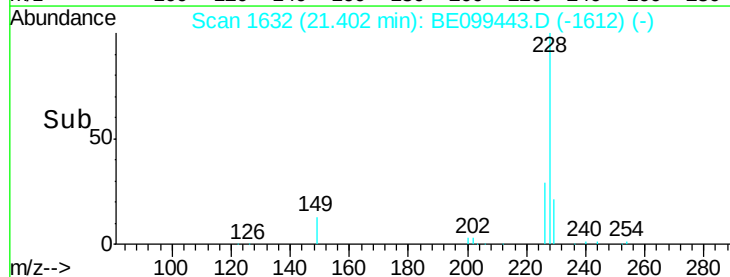
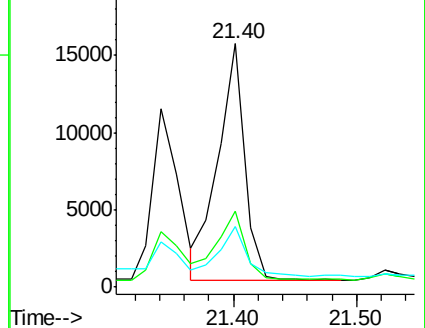
229 24.6 16.6 25.0

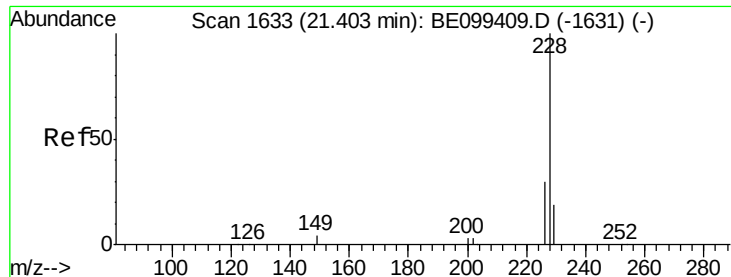


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.255 ng

RT: 21.40 min Scan# 1632

Delta R.T. -0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

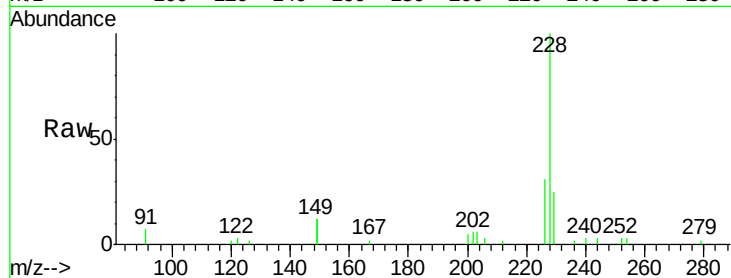
Tot Ion:228 Resp: 23154

Ion Ratio Lower Upper

228 100

226 31.3 24.0 36.0

229 24.6 15.8 23.8#

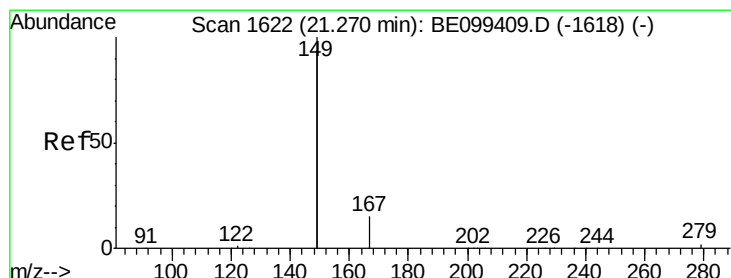
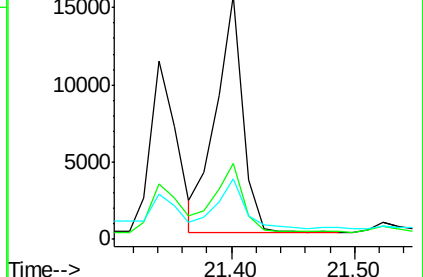
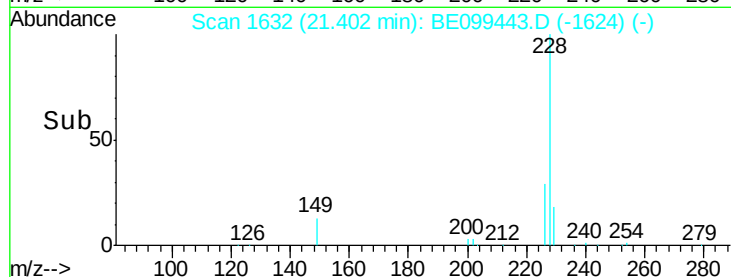


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

21.40



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.068 ng

RT: 21.27 min Scan# 1621

Delta R.T. -0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

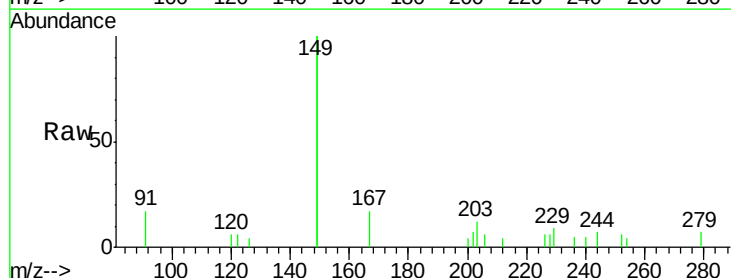
Tgt Ion:149 Resp: 18269

Ion Ratio Lower Upper

149 100

167 6.1 5.8 8.6

279 1.2 1.0 1.6

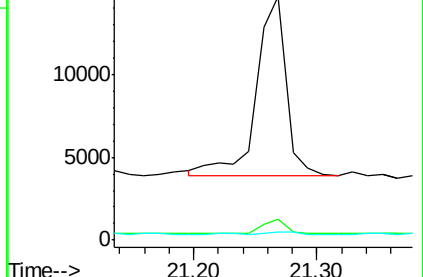
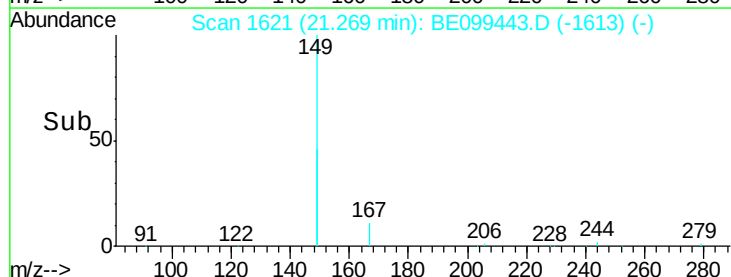


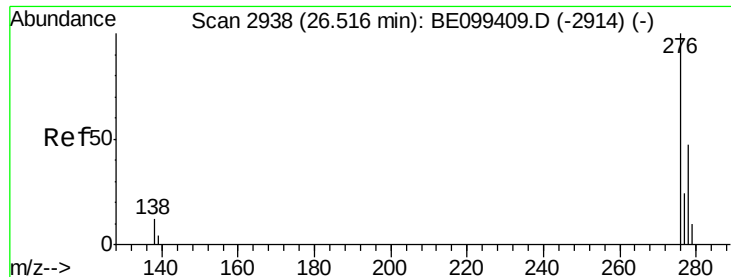
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

21.27





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.119 ng

RT: 26.51 min Scan# 2934

Delta R.T. -0.01 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

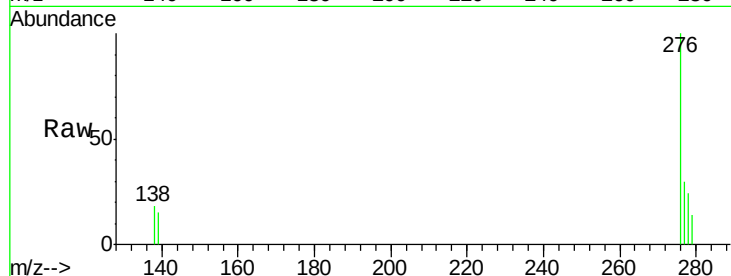
Tot Ion:276 Resp: 12733

Ion Ratio Lower Upper

276 100

138 13.1 10.2 15.2

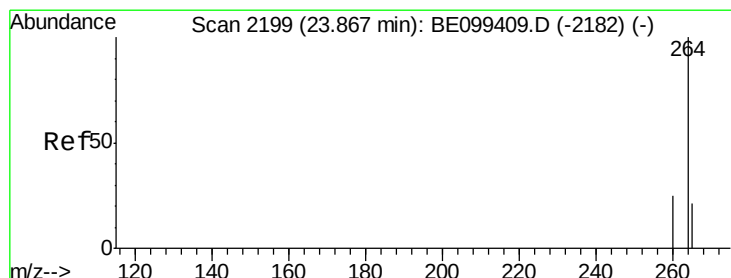
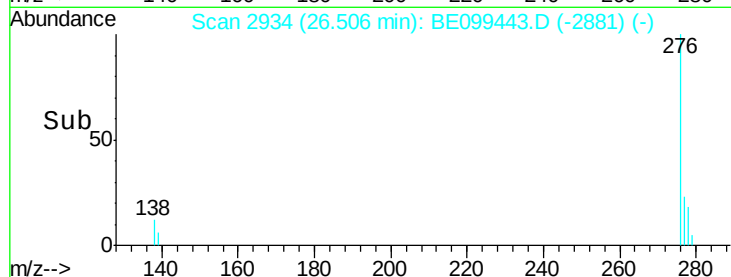
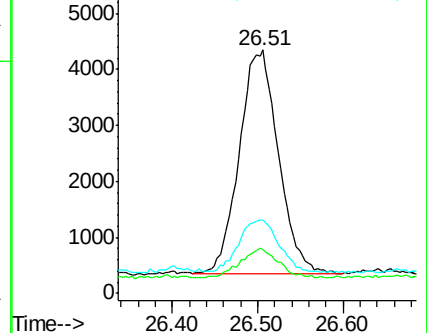
277 23.3 19.2 28.8



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

Perylene-d12

Concen: 0.400 ng

RT: 23.86 min Scan# 2197

Delta R.T. -0.00 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

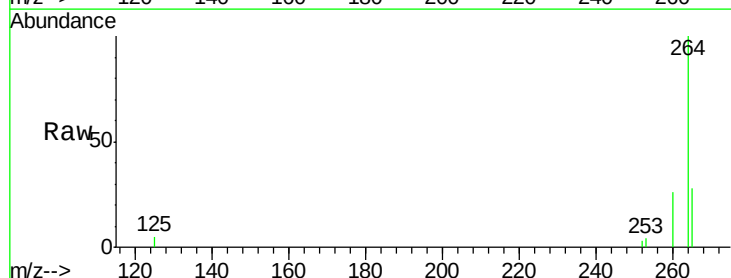
Tgt Ion:264 Resp: 33242

Ion Ratio Lower Upper

264 100

260 25.7 20.2 30.2

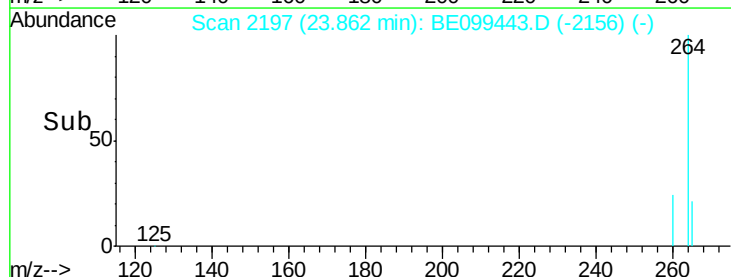
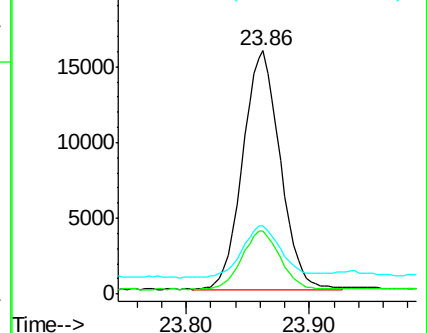
265 27.8 21.3 31.9

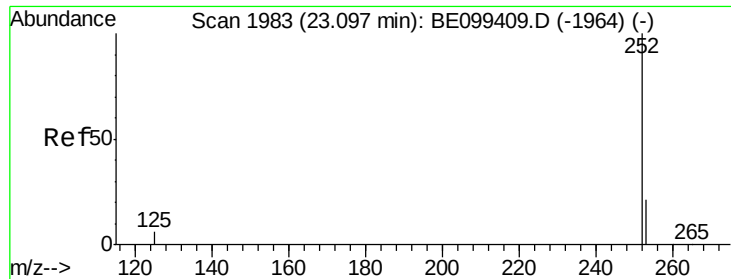


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

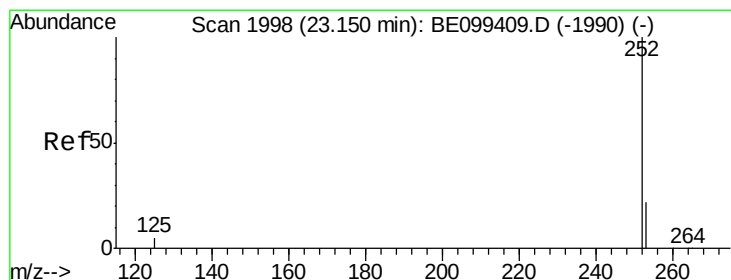
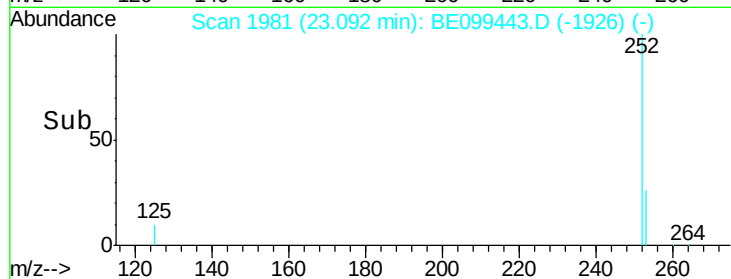
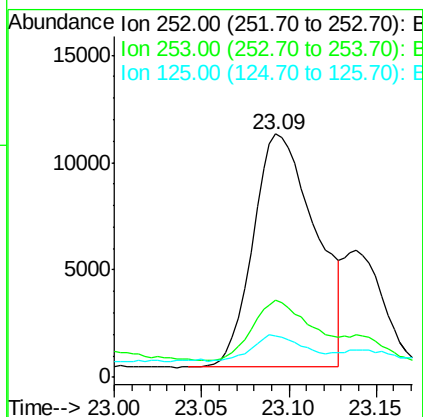
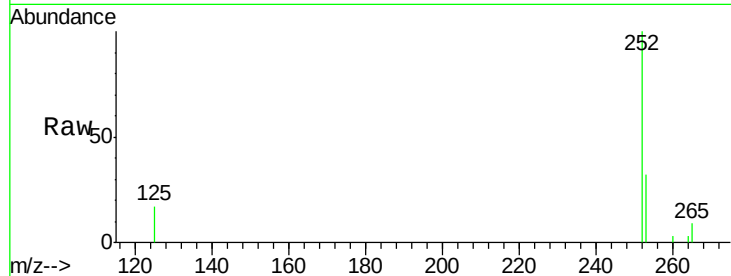




#35
Benzo(b)fluoranthene
Concen: 0.282 ng
RT: 23.09 min Scan# 1981
Delta R.T. -0.00 min
Lab File: BE099443.D
Acq: 1 May 2019 1:51

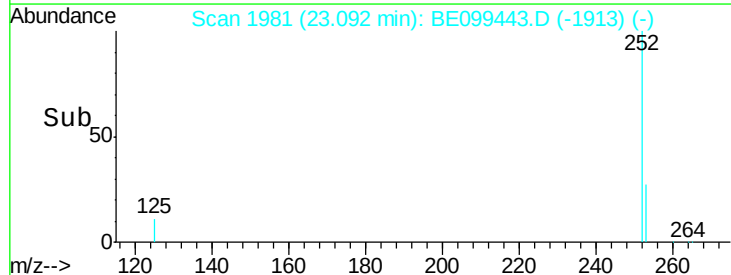
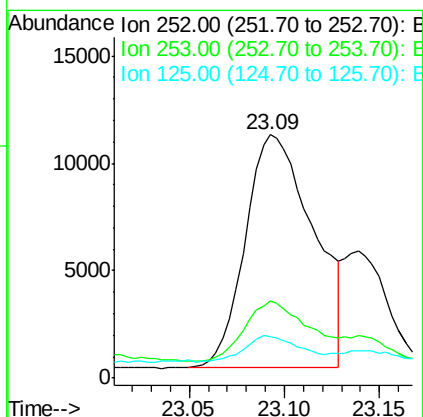
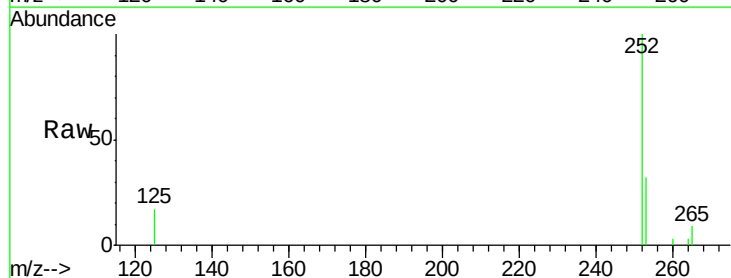
Instrument :
BNA_E
ClientSampleId :
EXT-026-SW044-042219

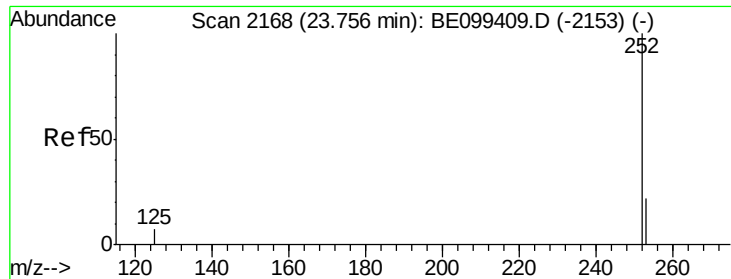
Tot Ion:252 Resp: 27027
Ion Ratio Lower Upper
252 100
253 31.6 18.1 27.1#
125 16.8 5.6 8.4#



#36
Benzo(k)fluoranthene
Concen: 0.292 ng
RT: 23.09 min Scan# 1981
Delta R.T. -0.06 min
Lab File: BE099443.D
Acq: 1 May 2019 1:51

Tgt Ion:252 Resp: 26961
Ion Ratio Lower Upper
252 100
253 31.6 18.4 27.6#
125 16.8 5.0 7.4#





#37

Benzo(a)pyrene

Concen: 0.171 ng

RT: 23.75 min Scan# 2165

Delta R.T. -0.01 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219

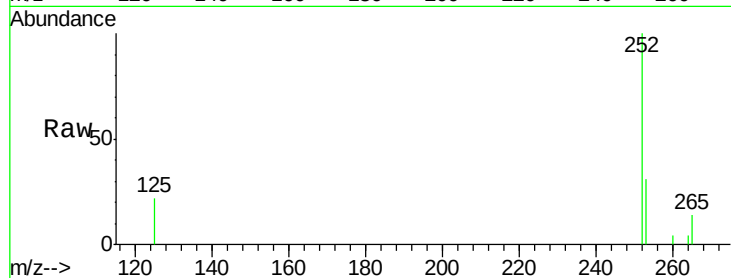
Tot Ion:252 Resp: 15536

Ion Ratio Lower Upper

252 100

253 31.2 18.9 28.3#

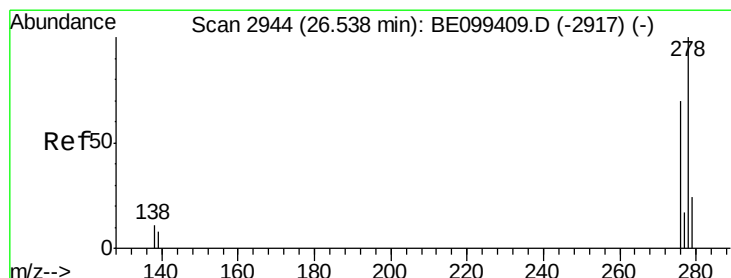
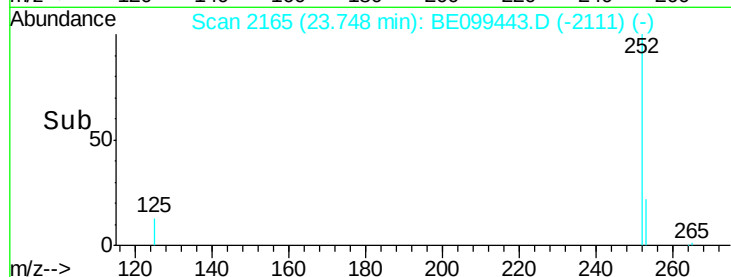
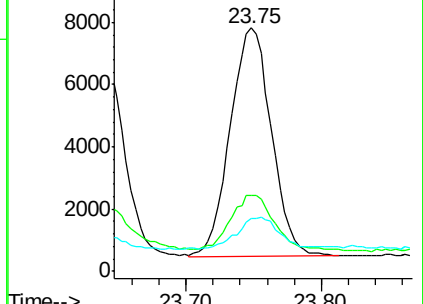
125 21.5 6.7 10.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.036 ng

RT: 26.51 min Scan# 2936

Delta R.T. -0.02 min

Lab File: BE099443.D

Acq: 1 May 2019 1:51

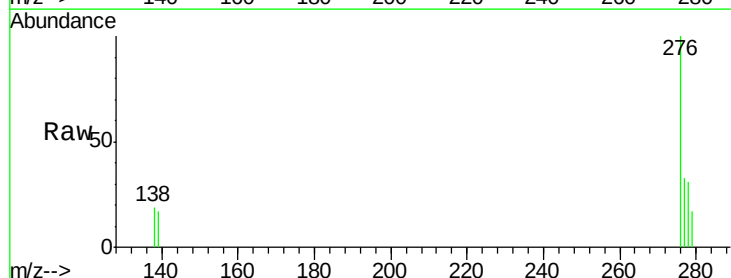
Tgt Ion:278 Resp: 3381

Ion Ratio Lower Upper

278 100

139 54.1 7.7 11.5#

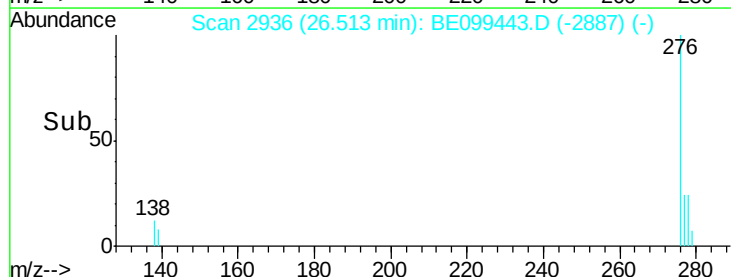
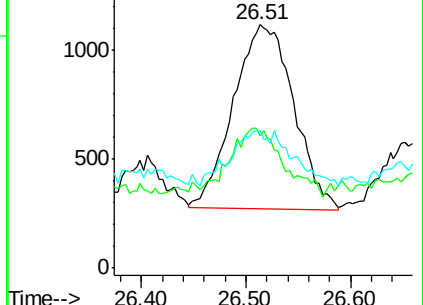
279 56.3 20.2 30.2#

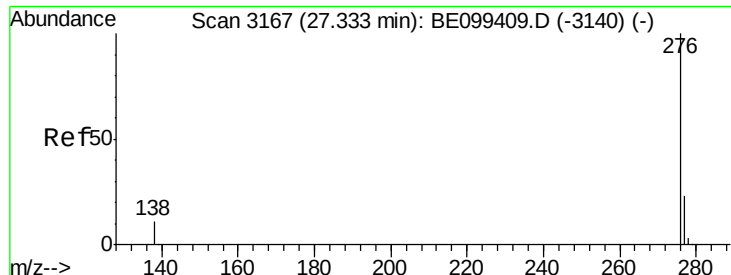


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.135 ng

RT: 27.32 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BE099443.D

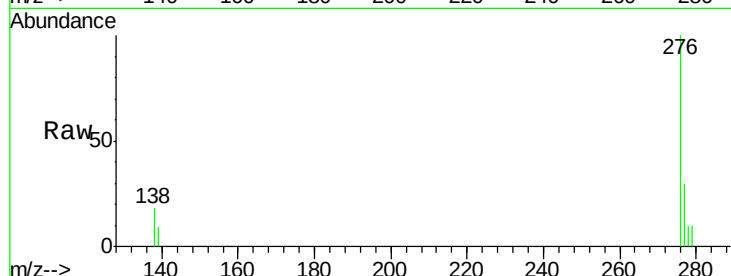
Acq: 1 May 2019 1:51

Instrument :

BNA_E

ClientSampleId :

EXT-026-SW044-042219



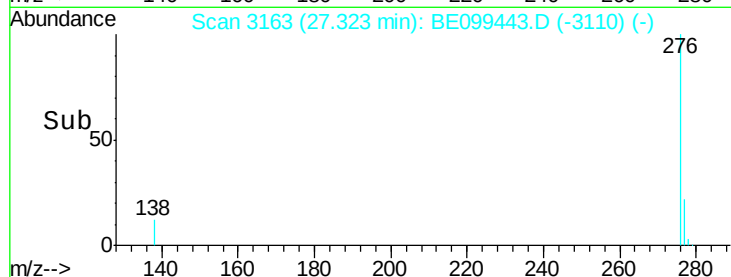
Tot Ion:276 Resp: 12508

Ion Ratio Lower Upper

276 100

277 29.9 19.5 29.3#

138 18.0 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

