

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042619\
 Data File : BE099399.D
 Acq On : 27 Apr 2019 4:20
 Operator : JU/SJ
 Sample : K2533-18
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW020-042219

Quant Time: Apr 29 00:56:53 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	2963	0.40	ng	0.00
7) Naphthalene-d8	10.61	136	11763	0.40	ng	0.01
13) Acenaphthene-d10	14.46	164	8297	0.40	ng	0.00
19) Phenanthrene-d10	17.20	188	21765	0.40	ng	0.01
27) Chrysene-d12	21.37	240	24750	0.40	ng	0.00
34) Perylene-d12	23.88	264	28307	0.40	ng	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.40	112	4032	0.56	ng	0.01
5) Phenol-d6	6.98	99	5715	0.55	ng	0.00
8) Nitrobenzene-d5	8.98	82	5375	0.59	ng	0.01
11) 2-Methylnaphthalene-d10	12.21	152	9787	0.47	ng	0.01
14) 2,4,6-Tribromophenol	15.94	330	2409	0.87	ng	0.00
15) 2-Fluorobiphenyl	13.09	172	14204	0.44	ng	0.00
25) Fluoranthene-d10	19.22	212	115973	0.44	ng	0.00
29) Terphenyl-d14	19.82	244	19330	0.40	ng	0.00

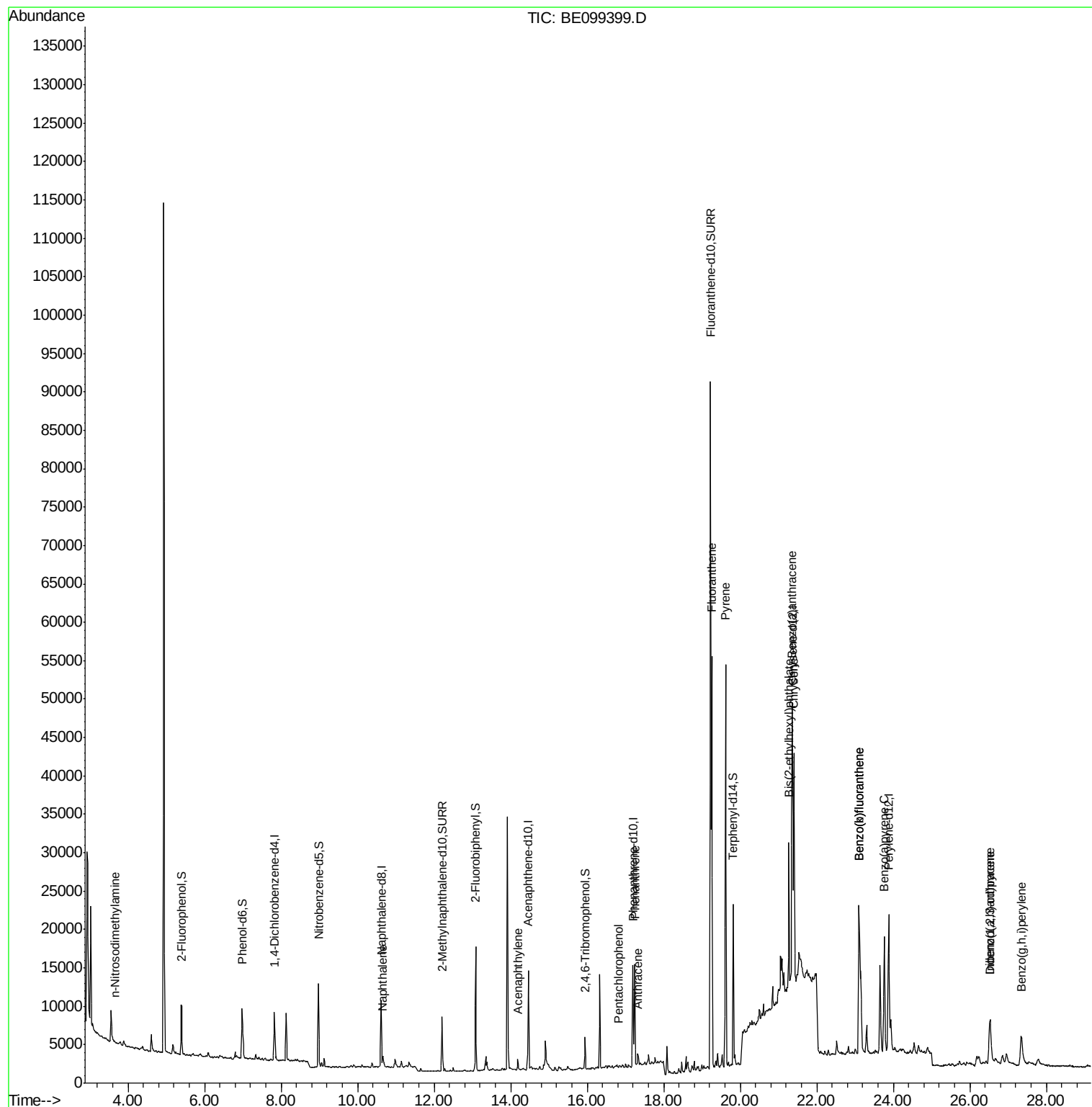
Target Compounds				Qvalue		
3) n-Nitrosodimethylamine	3.65	42	47	0.021	ng	# 1
9) Naphthalene	10.65	128	2578	0.020	ng	# 89
16) Acenaphthylene	14.18	152	1833	0.049	ng	# 96
22) Pentachlorophenol	16.81	266	30	0.227	ng	# 73
23) Phenanthrene	17.24	178	15268	0.265	ng	98
24) Anthracene	17.32	178	2070	0.040	ng	100
26) Fluoranthene	19.25	202	48355	0.627	ng	98
28) Pyrene	19.62	202	49153	0.674	ng	# 96
30) Benzo(a)anthracene	21.35	228	30242	0.416	ng	93
31) Chrysene	21.40	228	29387	0.380	ng	93
32) Bis(2-ethylhexyl)phthalate	21.27	149	20657	0.312	ng	98
33) Indeno(1,2,3-cd)pyrene	26.52	276	13516	0.177	ng	# 86
35) Benzo(b)fluoranthene	23.11	252	37341	0.431	ng	# 83
36) Benzo(k)fluoranthene	23.11	252	37341	0.432	ng	# 85
37) Benzo(a)pyrene	23.76	252	24587	0.317	ng	# 82
38) Dibenzo(a,h)anthracene	26.54	278	1789	0.023	ng	# 23
39) Benzo(a,h,i)perylene	27.34	276	12143	0.151	ng	# 86

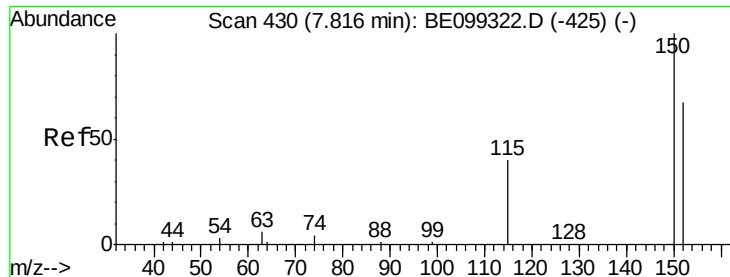
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

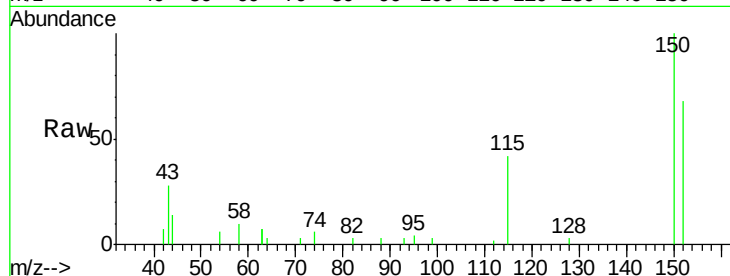
Tot Ion:152 Resp: 2963

Ion Ratio Lower Upper

152 100

150 146.8 119.5 179.3

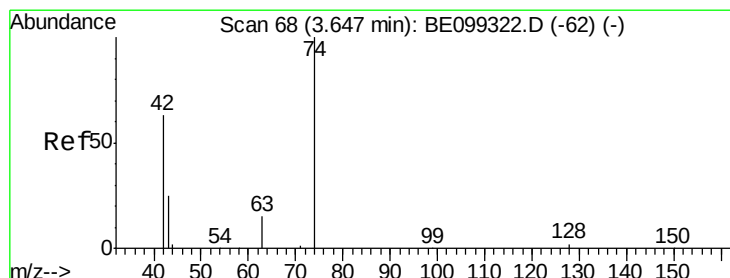
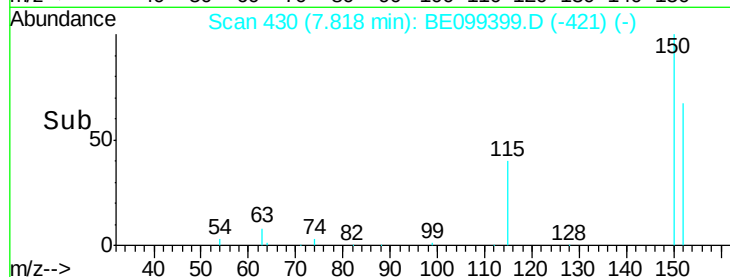
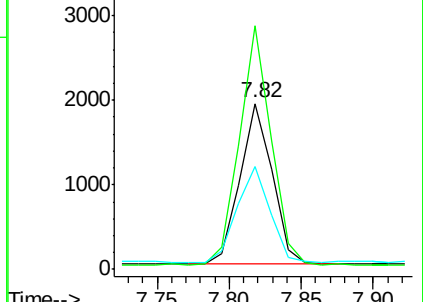
115 61.9 47.5 71.3



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



#3

n-Nitrosodimethylamine

Concen: 0.021 ng

RT: 3.65 min Scan# 68

Delta R.T. -0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

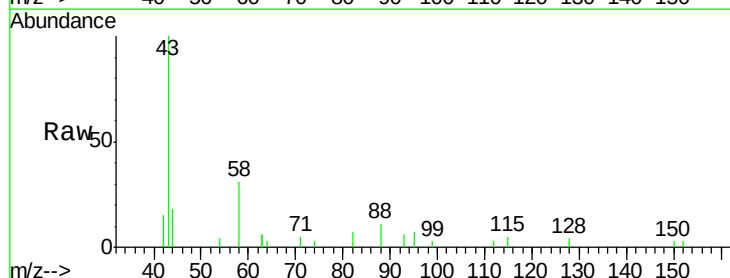
Tgt Ion: 42 Resp: 47

Ion Ratio Lower Upper

42 100

74 0.0 145.8 218.8#

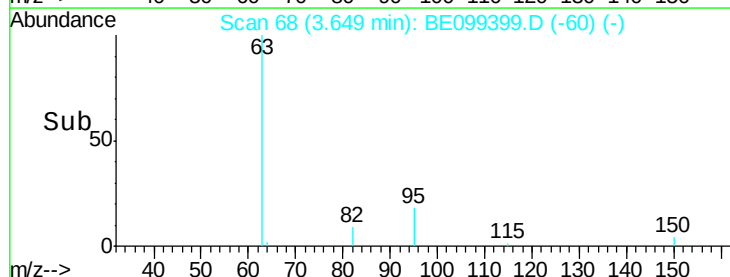
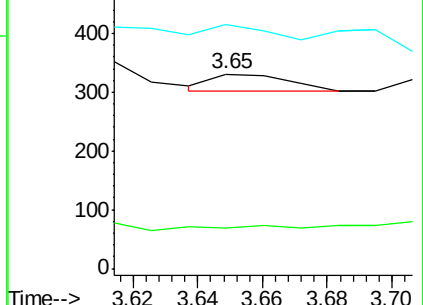
44 0.0 9.0 13.4#

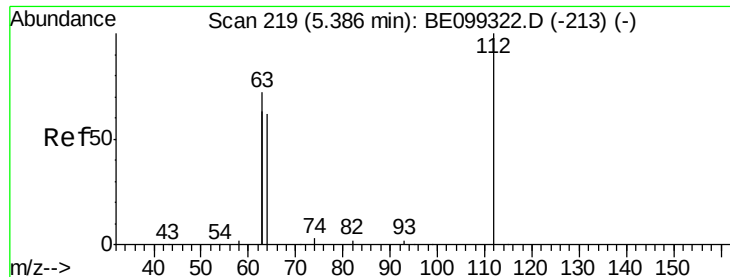


Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.557 ng

RT: 5.40 min Scan# 220

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

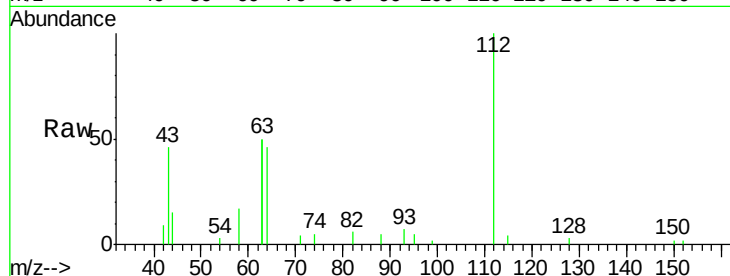
Tot Ion: 112 Resp: 4032

Ion Ratio Lower Upper

112 100

64 58.0 44.9 67.3

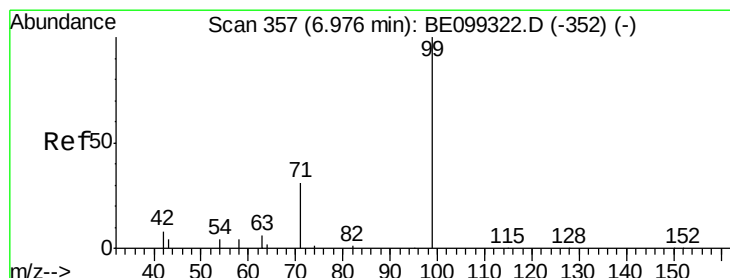
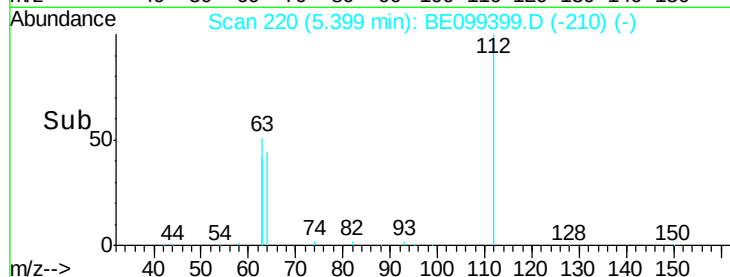
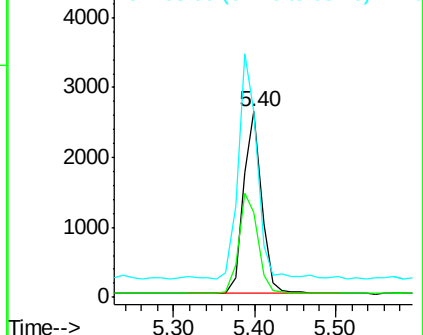
63 126.1 97.4 146.0



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



#5

Phenol-d6

Concen: 0.553 ng

RT: 6.98 min Scan# 357

Delta R.T. 0.00 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

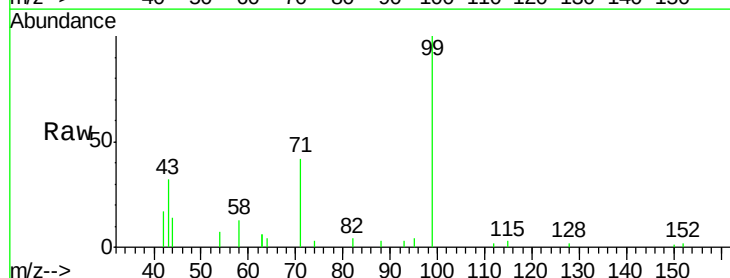
Tgt Ion: 99 Resp: 5715

Ion Ratio Lower Upper

99 100

42 16.2 11.7 17.5

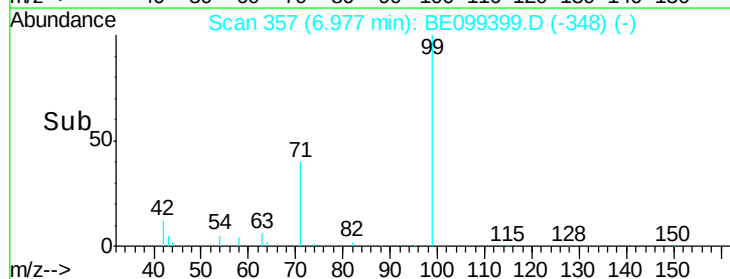
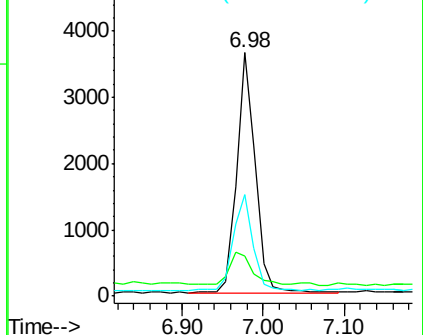
71 42.4 29.6 44.4

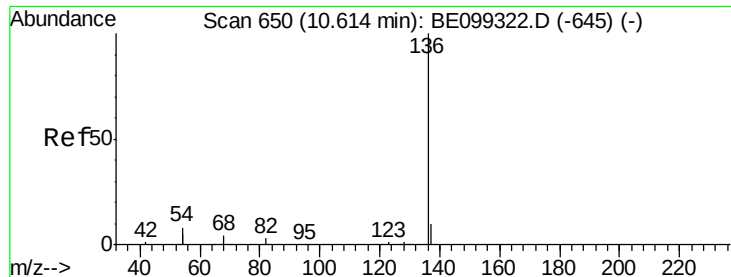


Abundance Ion 99.00 (98.70 to 99.70): BE0

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: 10.61 min Scan# 650

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

Tot Ion:136 Resp: 11763

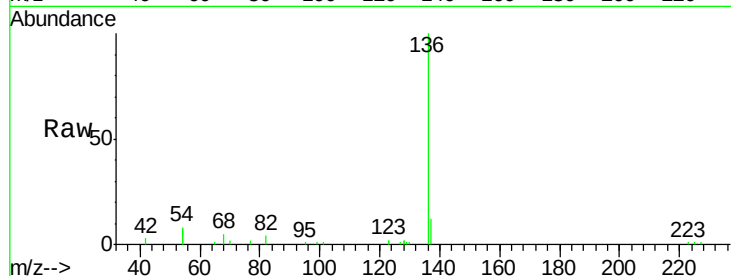
Ion Ratio Lower Upper

136 100

137 11.6 8.7 13.1

54 16.8 23.8 35.8#

68 4.6 6.4 9.6#

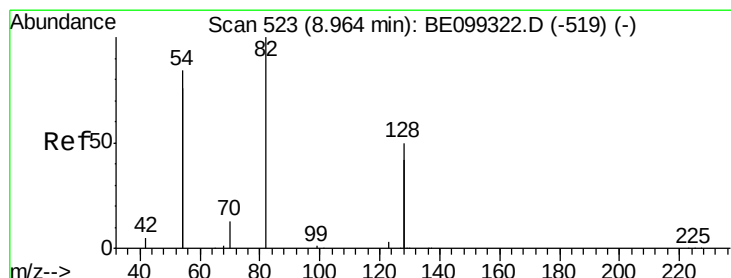
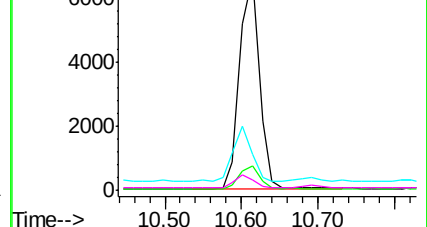
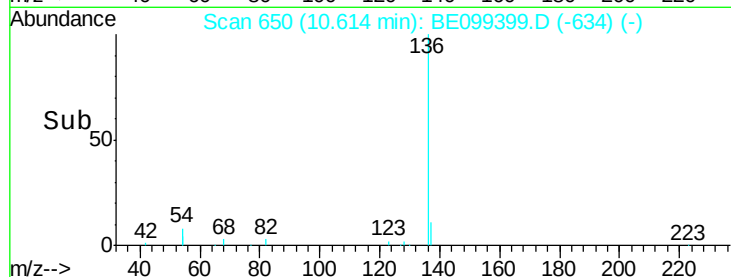


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.589 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

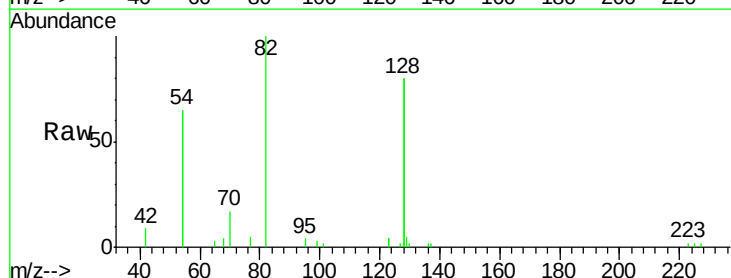
Tgt Ion: 82 Resp: 5375

Ion Ratio Lower Upper

82 100

128 159.6 91.7 137.5#

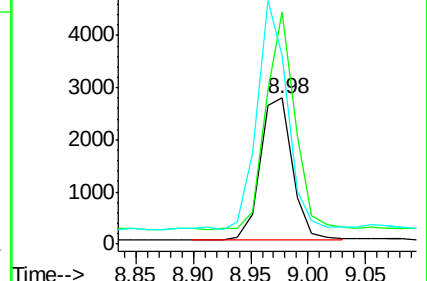
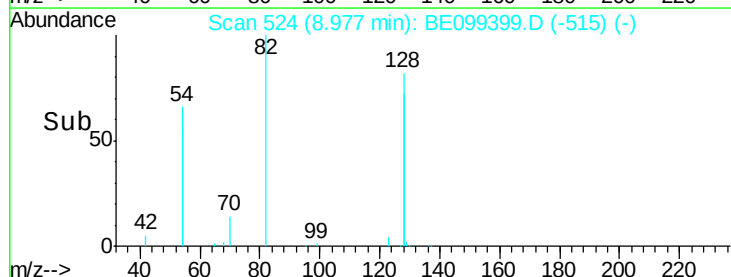
54 129.1 122.8 184.2

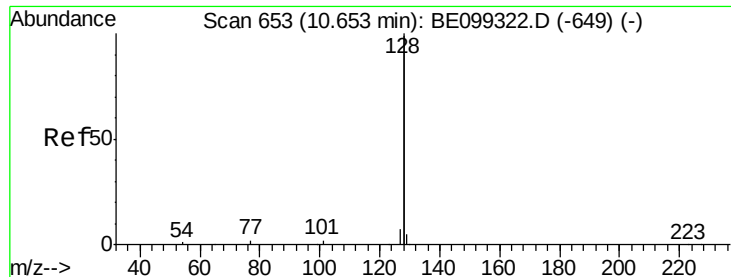


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

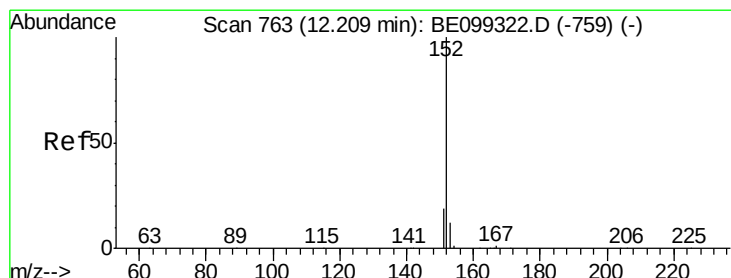
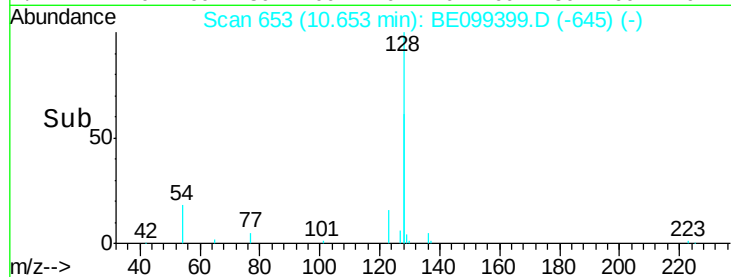
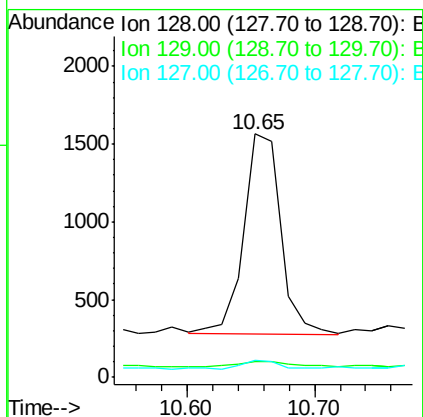
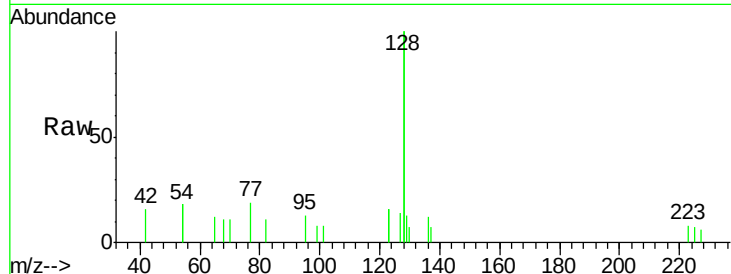




#9
Naphthalene
Concen: 0.020 ng
RT: 10.65 min Scan# 653
Delta R.T. -0.00 min
Lab File: BE099399.D
Acq: 27 Apr 2019 4:20

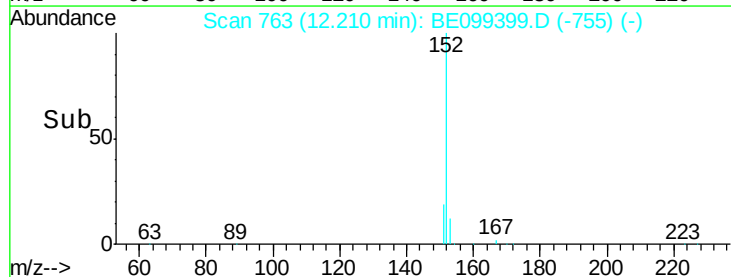
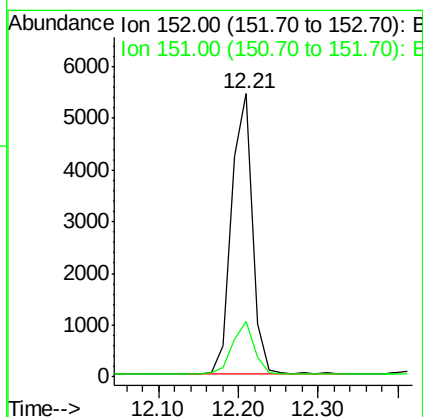
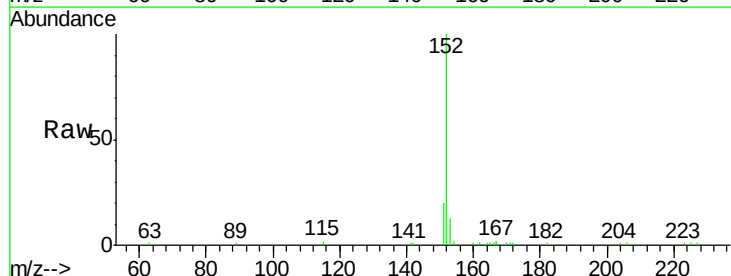
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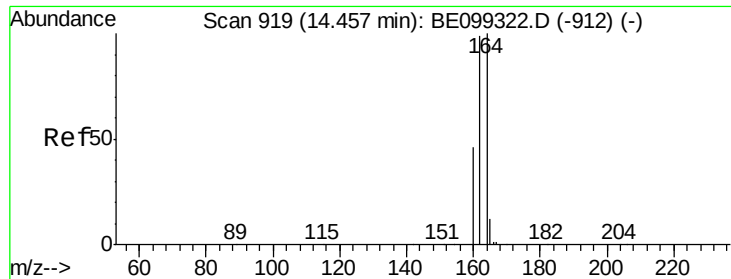
Tot Ion:128 Resp: 2578
Ion Ratio Lower Upper
128 100
129 6.5 2.3 3.5#
127 7.1 2.8 4.2#



#11
2-Methylnaphthalene-d10
Concen: 0.471 ng
RT: 12.21 min Scan# 763
Delta R.T. 0.01 min
Lab File: BE099399.D
Acq: 27 Apr 2019 4:20

Tgt Ion:152 Resp: 9787
Ion Ratio Lower Upper
152 100
151 19.5 14.9 22.3

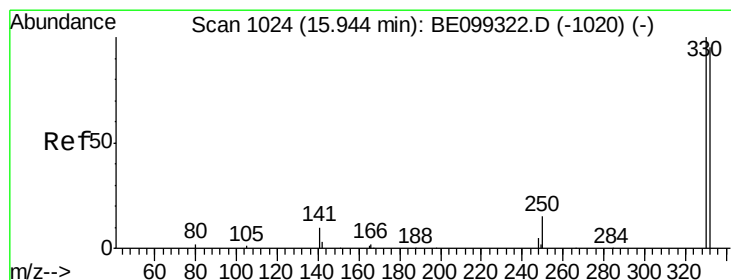
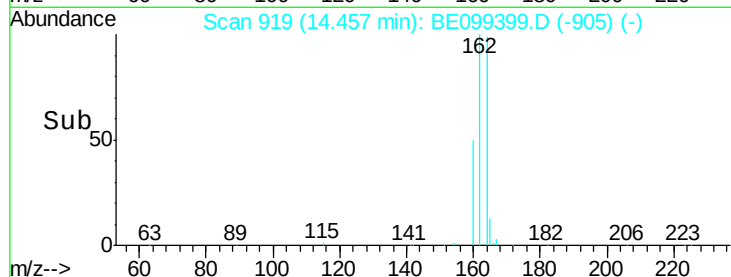
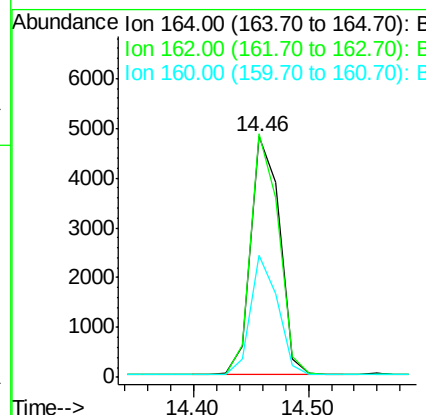
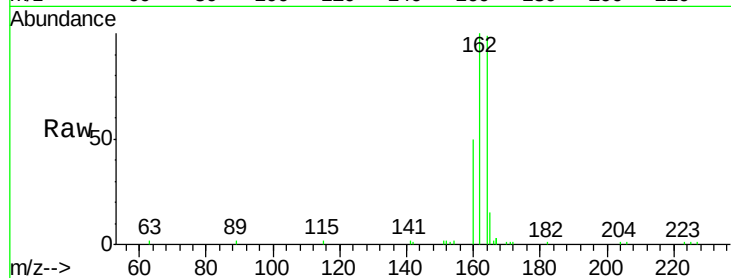




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.46 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

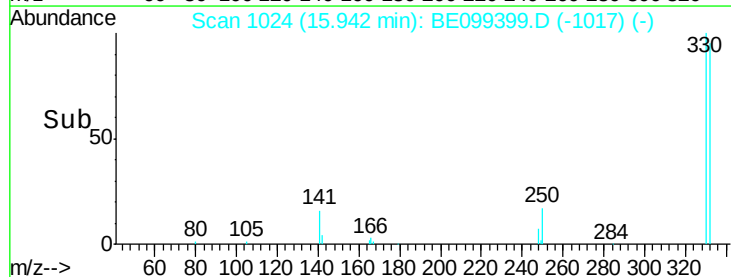
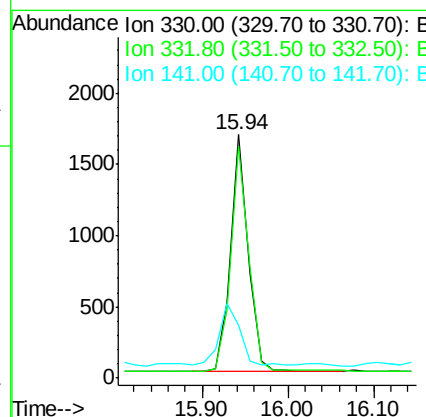
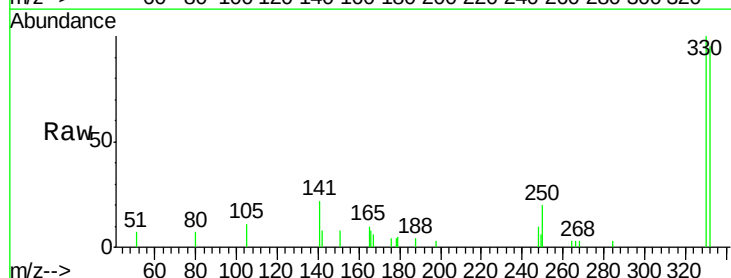
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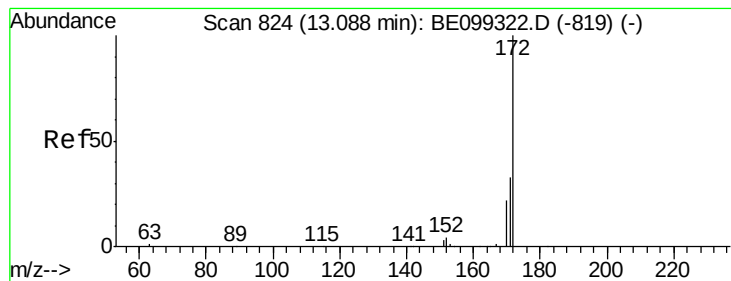
Tot Ion:164 Resp: 8297
 Ion Ratio Lower Upper
 164 100
 162 101.0 77.8 116.6
 160 50.7 37.1 55.7



#14
 2,4,6-Tribromophenol
 Concen: 0.874 ng
 RT: 15.94 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

Tgt Ion:330 Resp: 2409
 Ion Ratio Lower Upper
 330 100
 332 96.1 82.5 123.7
 141 28.9 24.9 37.3

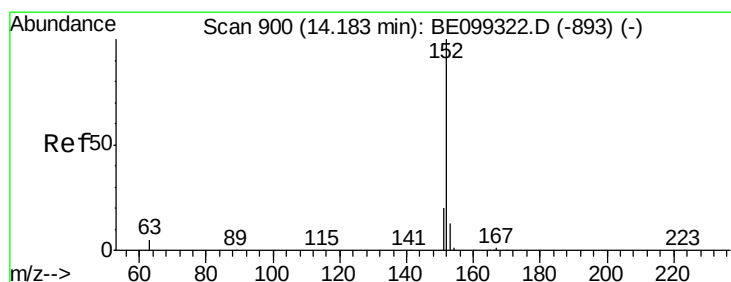
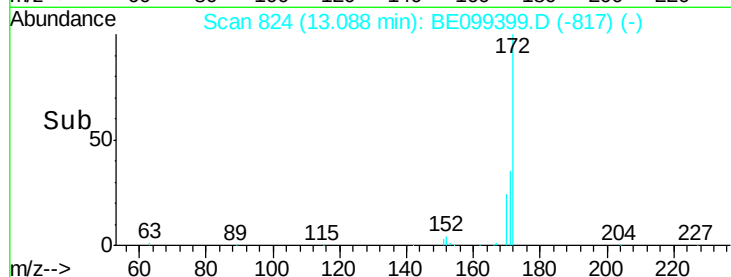
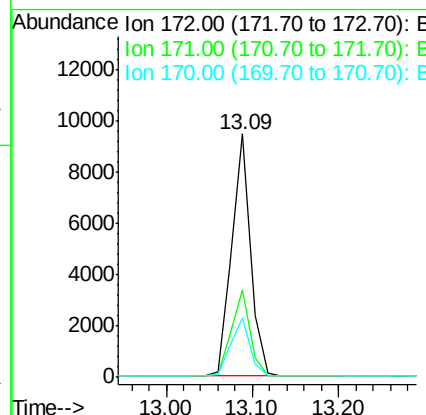
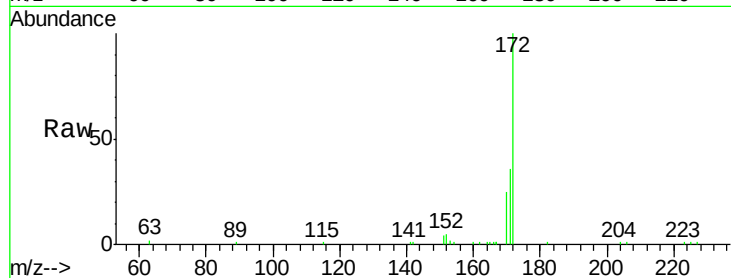




#15
 2-Fluorobiphenyl
 Concen: 0.436 ng
 RT: 13.09 min Scan# 824
 Delta R.T. 0.00 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

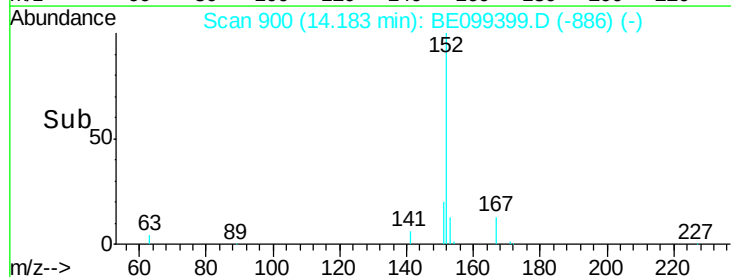
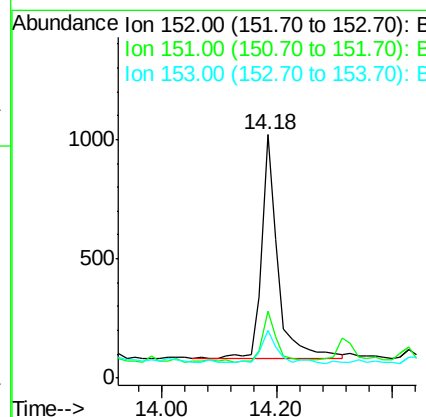
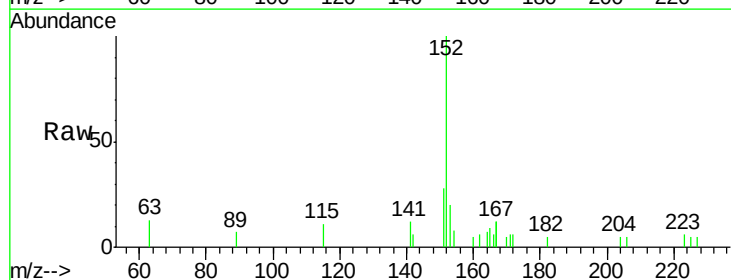
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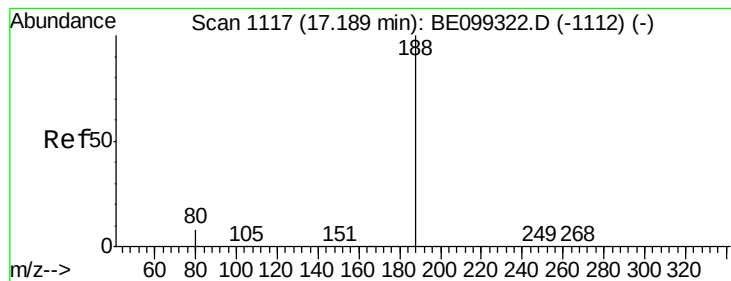
Tot Ion:172 Resp: 14204
 Ion Ratio Lower Upper
 172 100
 171 35.7 26.2 39.2
 170 24.5 18.1 27.1



#16
 Acenaphthylene
 Concen: 0.049 ng
 RT: 14.18 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

Tgt Ion:152 Resp: 1833
 Ion Ratio Lower Upper
 152 100
 151 20.1 15.5 23.3
 153 15.8 10.2 15.4#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.20 min Scan# 1118

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

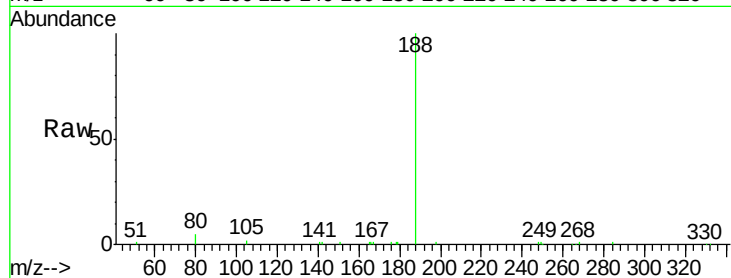
Tot Ion:188 Resp: 21765

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

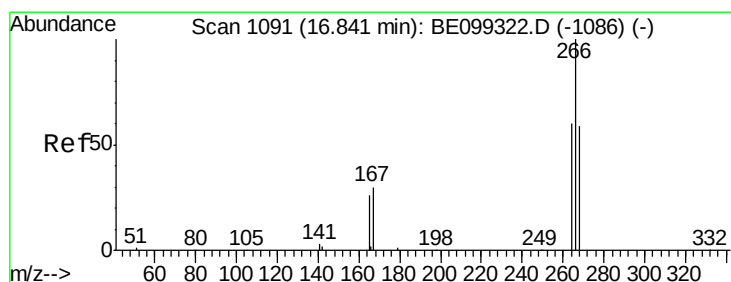
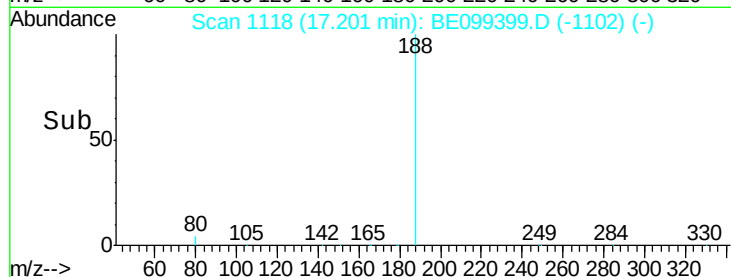
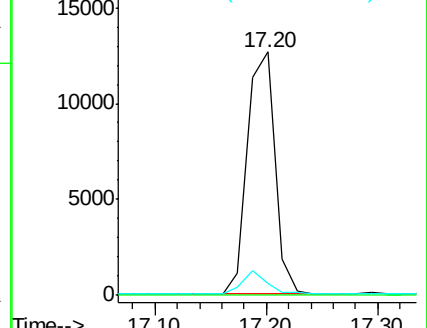
80 4.7 6.2 9.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.227 ng

RT: 16.81 min Scan# 1089

Delta R.T. -0.03 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

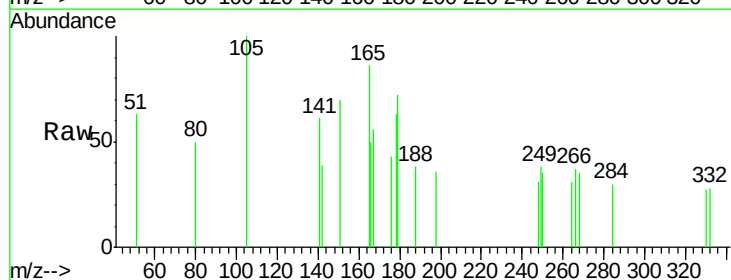
Tgt Ion:266 Resp: 30

Ion Ratio Lower Upper

266 100

264 83.8 54.5 81.7#

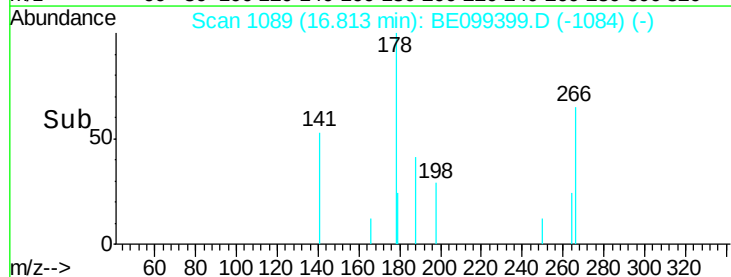
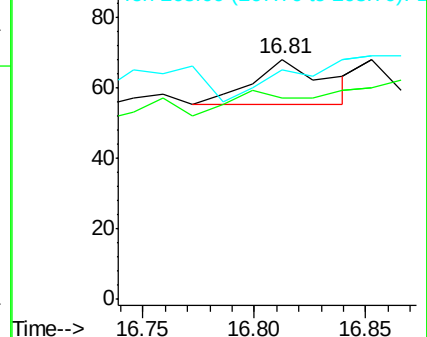
268 95.6 54.3 81.5#

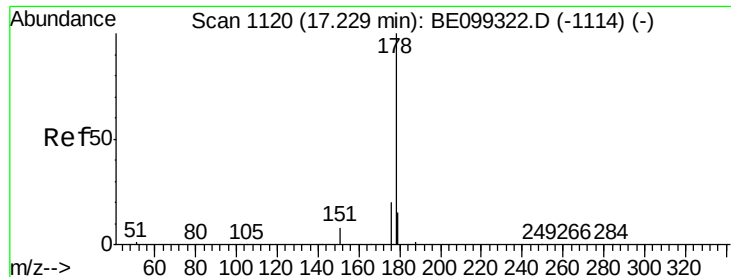


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.265 ng

RT: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

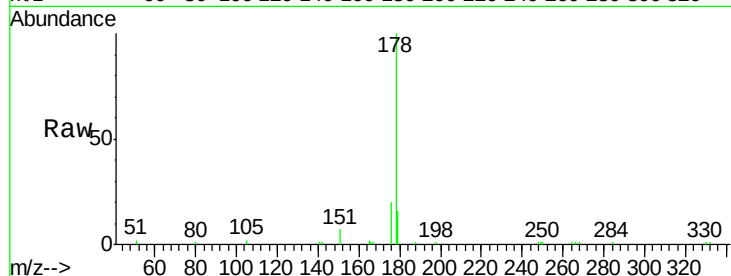
Tot Ion:178 Resp: 15268

Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

179 16.2 12.4 18.6



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

12000

10000

8000

6000

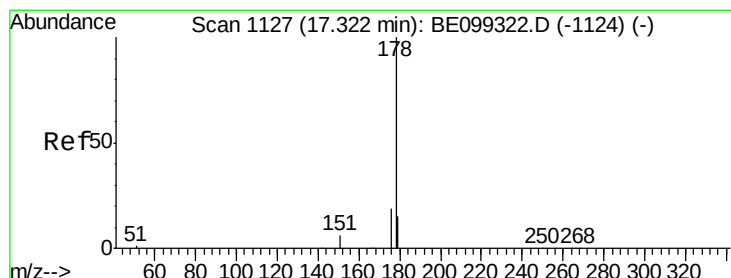
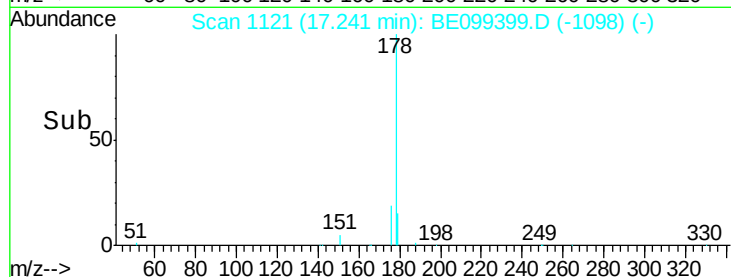
4000

2000

0

17.10 17.20 17.30

Time-->



#24

Anthracene

Concen: 0.040 ng

RT: 17.32 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

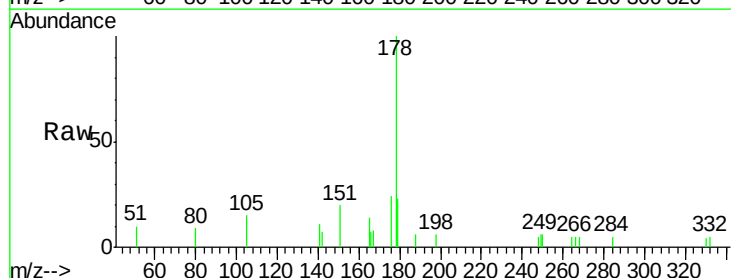
Tgt Ion:178 Resp: 2070

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

179 14.8 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

12000

10000

8000

6000

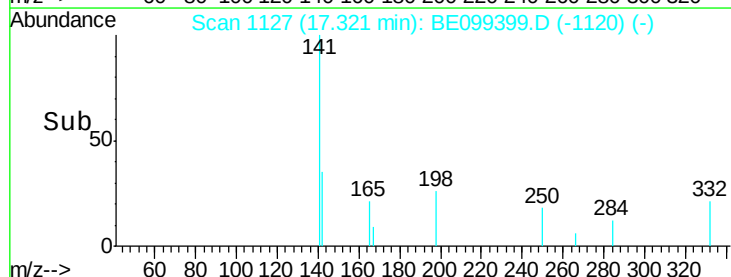
4000

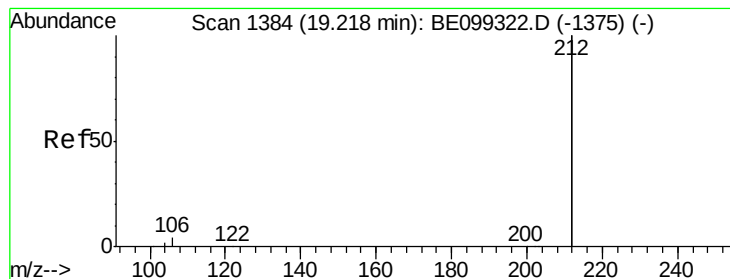
2000

0

17.25 17.30 17.35 17.40

Time-->





#25

Fluoranthene-d10

Concen: 0.444 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

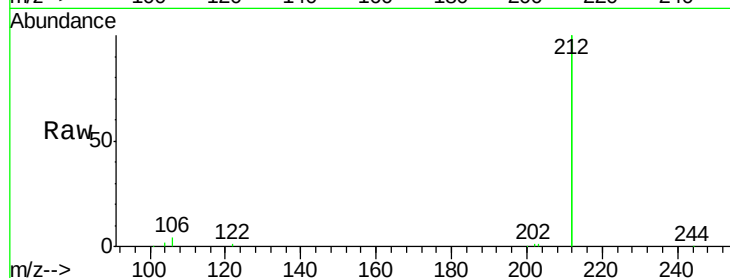
Tot Ion:212 Resp: 115973

Ion Ratio Lower Upper

212 100

106 1.8 1.8 2.6

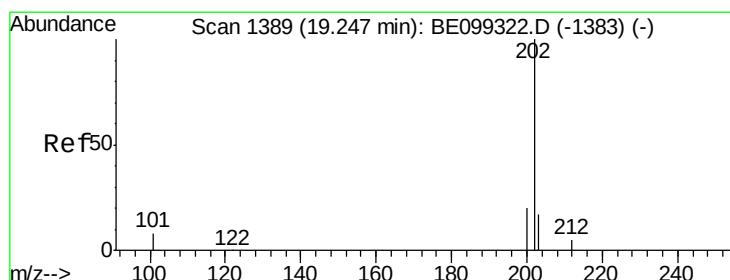
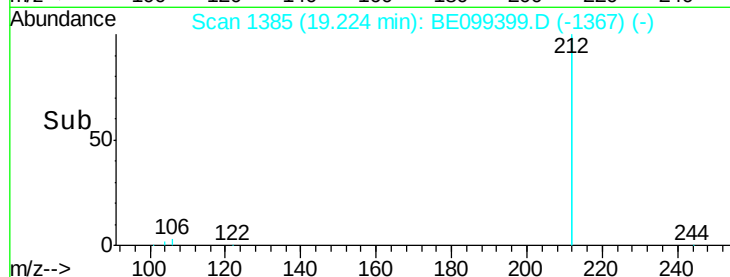
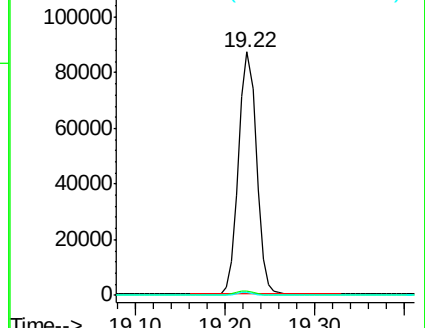
104 1.1 1.0 1.4



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: 0.627 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

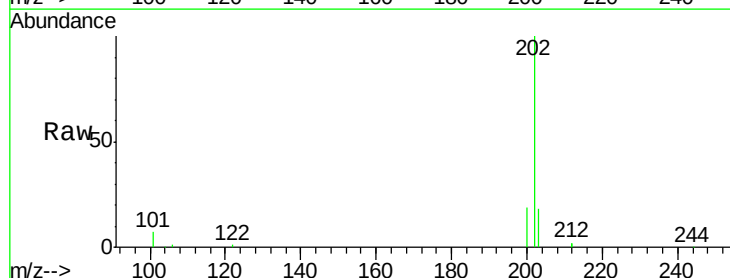
Tgt Ion:202 Resp: 48355

Ion Ratio Lower Upper

202 100

101 6.9 6.4 9.6

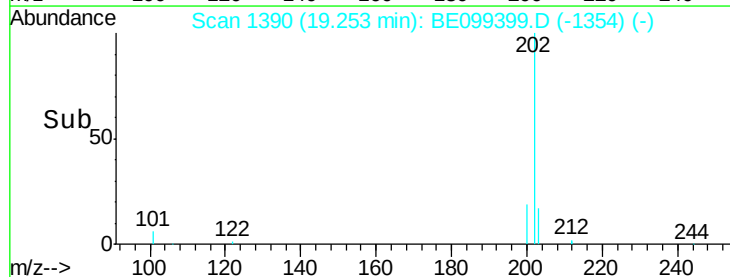
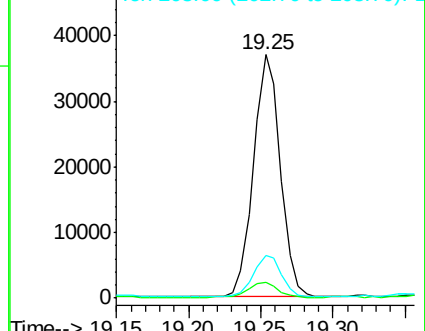
203 17.3 13.5 20.3

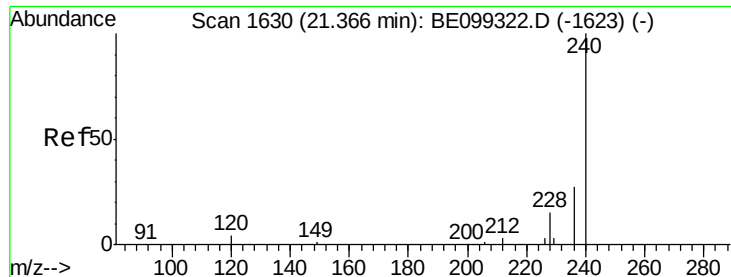


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

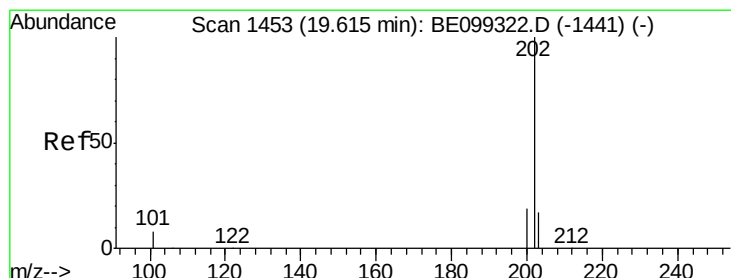
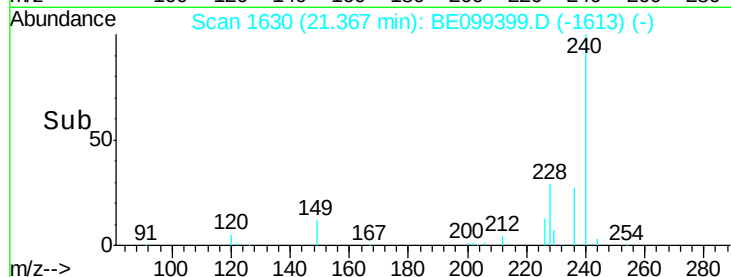
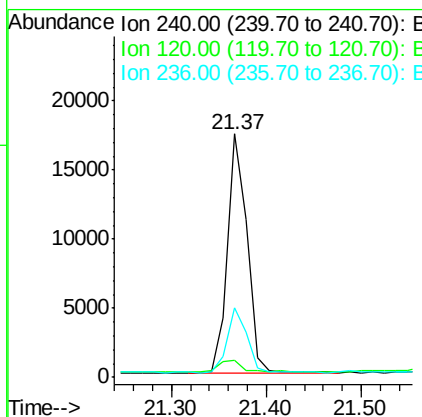
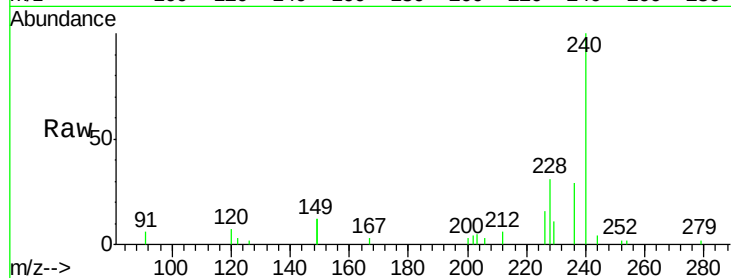




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.37 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

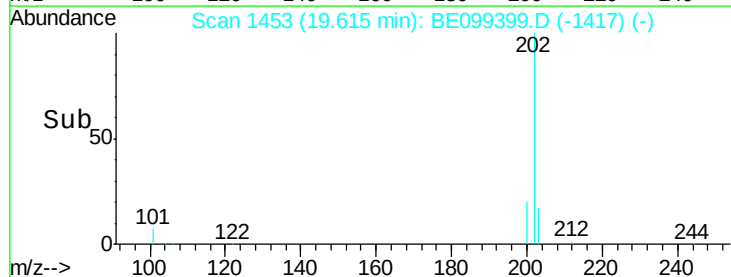
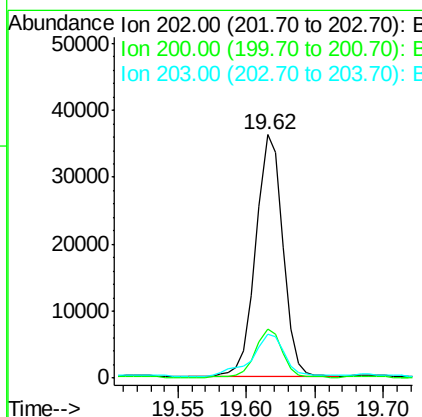
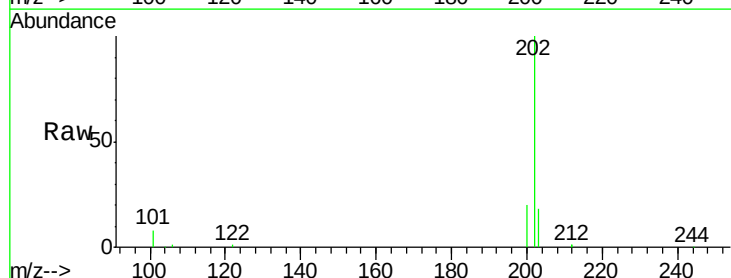
Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW020-042219

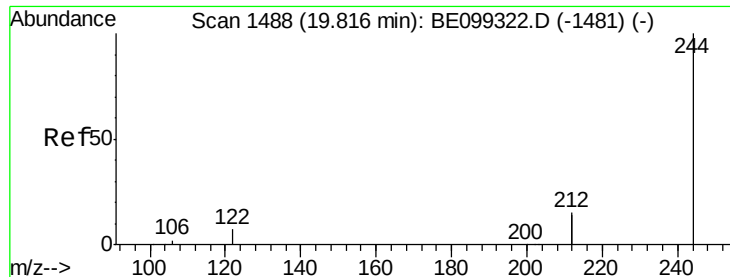
Tot Ion:240 Resp: 24750
 Ion Ratio Lower Upper
 240 100
 120 7.0 2.2 3.2#
 236 28.6 20.2 30.4



#28
 Pyrene
 Concen: 0.674 ng
 RT: 19.62 min Scan# 1453
 Delta R.T. 0.01 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

Tgt Ion:202 Resp: 49153
 Ion Ratio Lower Upper
 202 100
 200 19.8 15.7 23.5
 203 20.9 13.7 20.5#





#29

Terphenyl-d14

Concen: 0.397 ng

RT: 19.82 min Scan# 1488

Delta R.T. 0.00 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

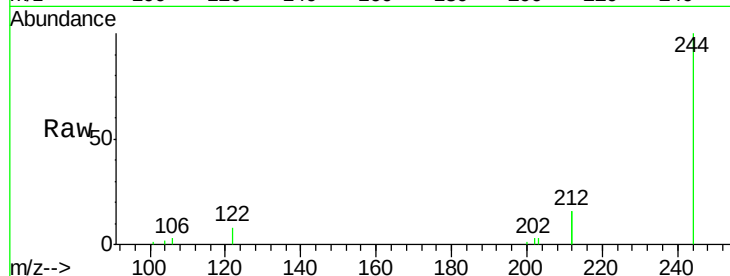
Tot Ion:244 Resp: 19330

Ion Ratio Lower Upper

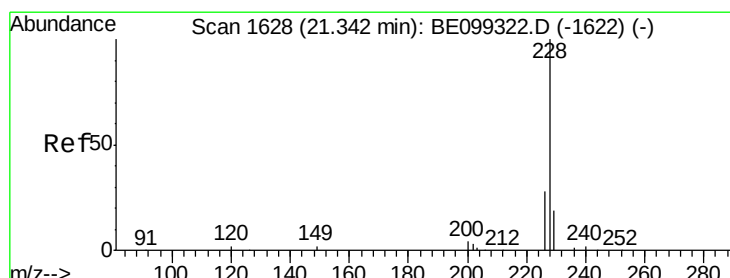
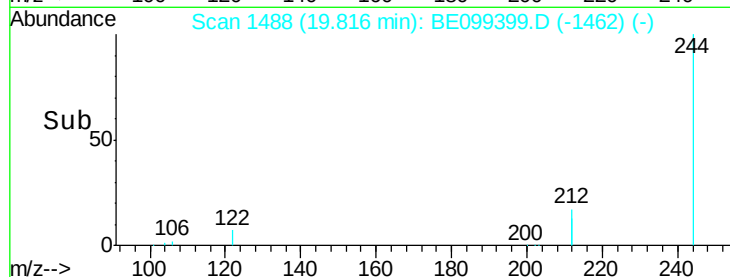
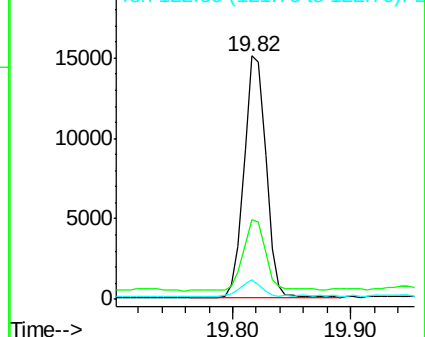
244 100

212 33.0 22.6 33.8

122 8.0 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: 0.416 ng

RT: 21.35 min Scan# 1629

Delta R.T. 0.01 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

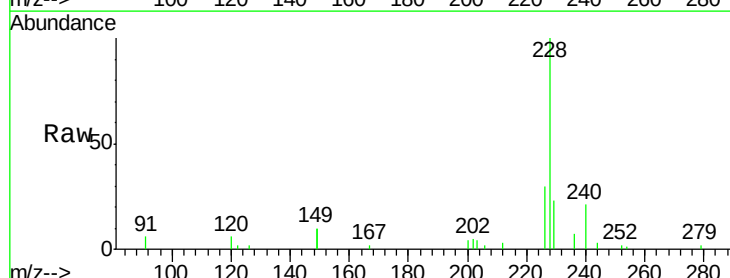
Tgt Ion:228 Resp: 30242

Ion Ratio Lower Upper

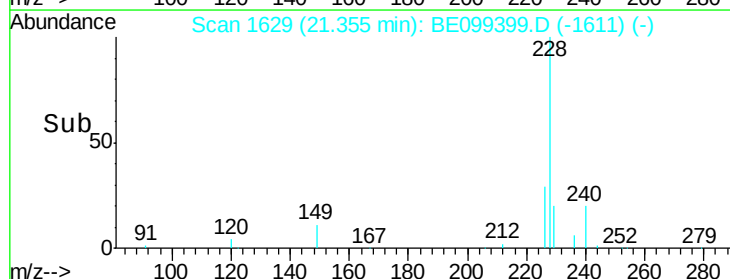
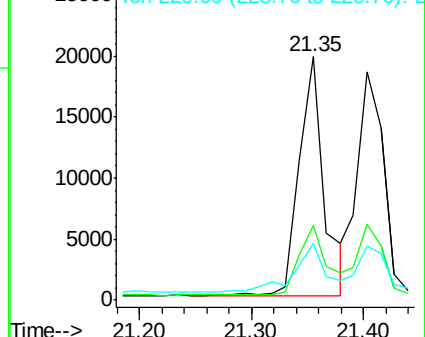
228 100

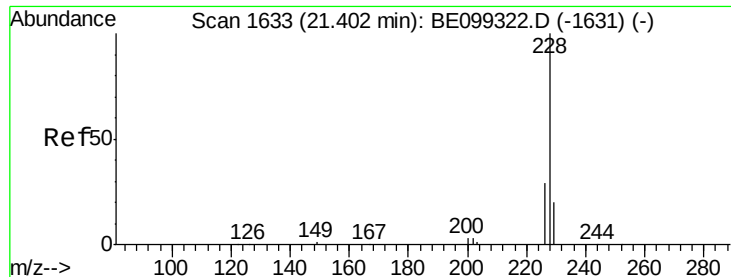
226 30.5 22.0 33.0

229 23.5 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: 0.380 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

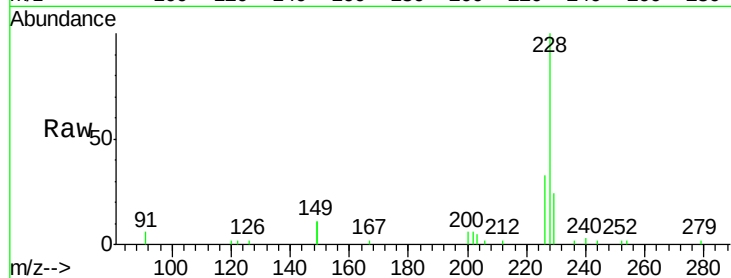
Tot Ion:228 Resp: 29387

Ion Ratio Lower Upper

228 100

226 33.1 23.4 35.2

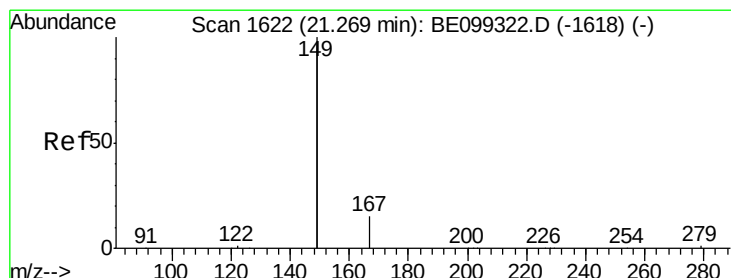
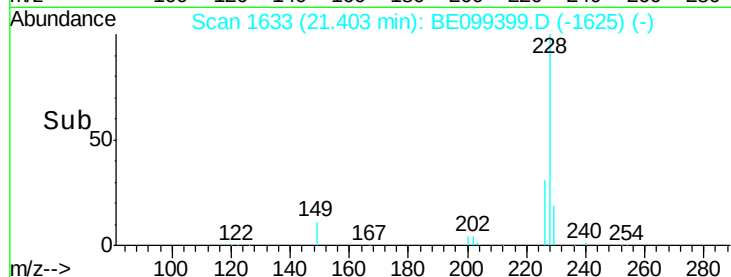
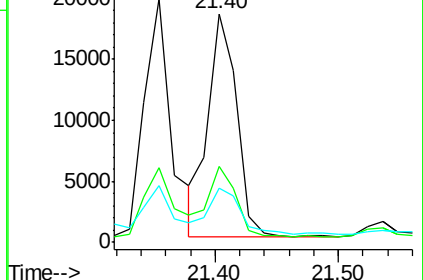
229 23.9 16.2 24.2



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: 0.312 ng

RT: 21.27 min Scan# 1622

Delta R.T. 0.00 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

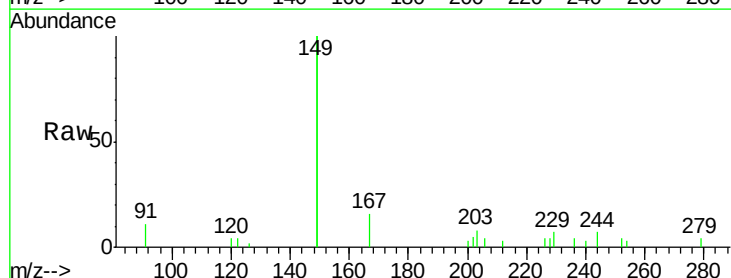
Tgt Ion:149 Resp: 20657

Ion Ratio Lower Upper

149 100

167 6.8 6.0 9.0

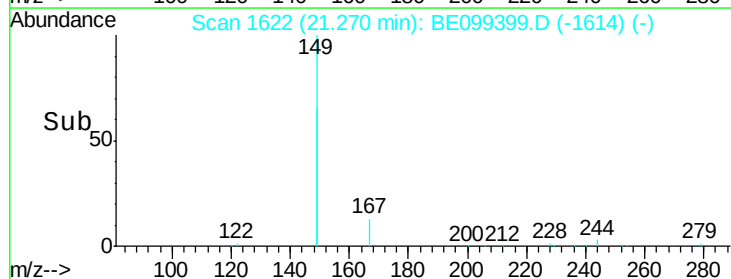
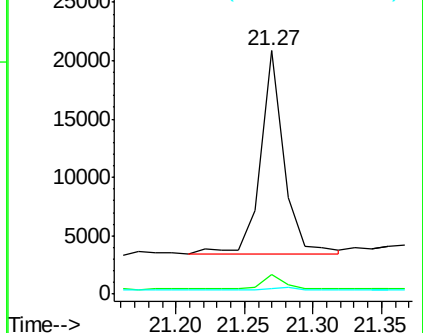
279 1.4 1.1 1.7

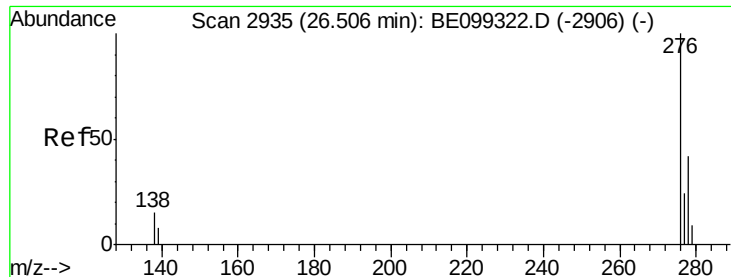


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

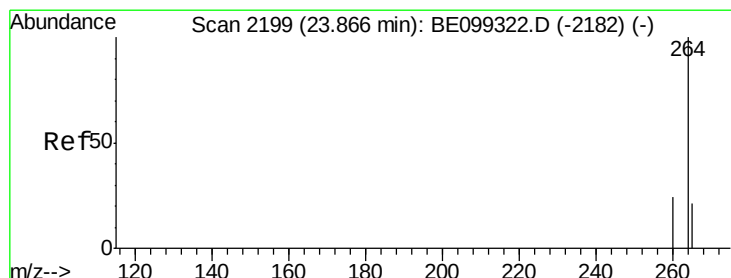
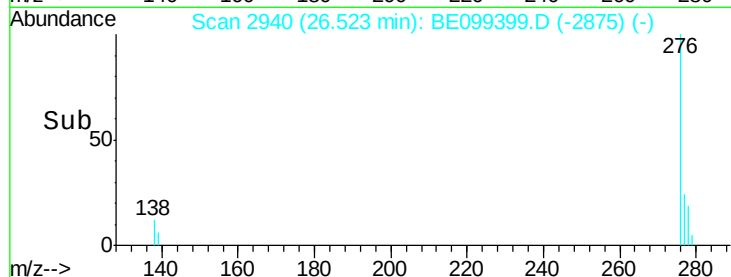
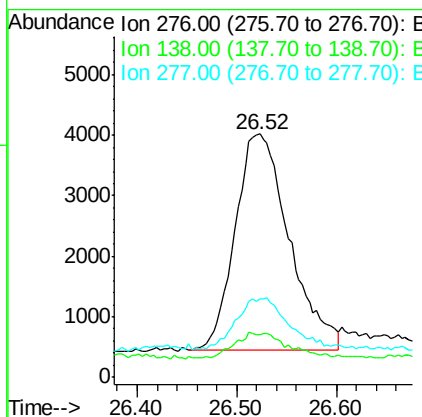
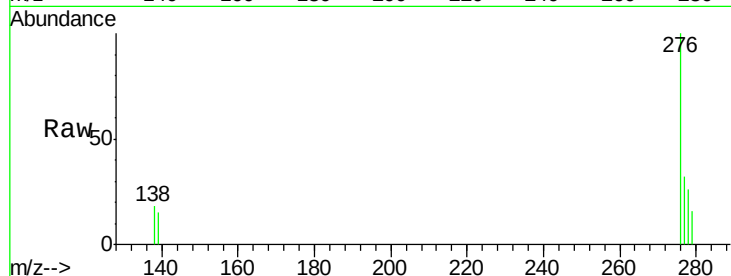




#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.177 ng
 RT: 26.52 min Scan# 2940
 Delta R.T. 0.03 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

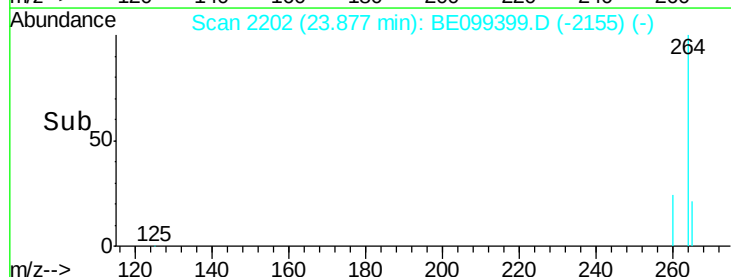
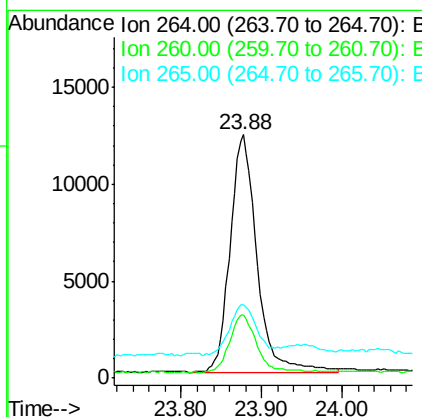
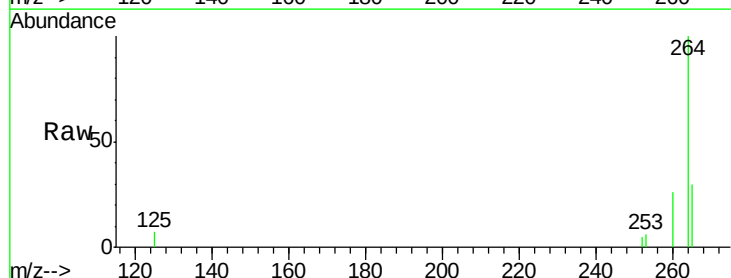
Instrument :
 BNA_E
 ClientSampleId :
 EXT-027-SW020-042219

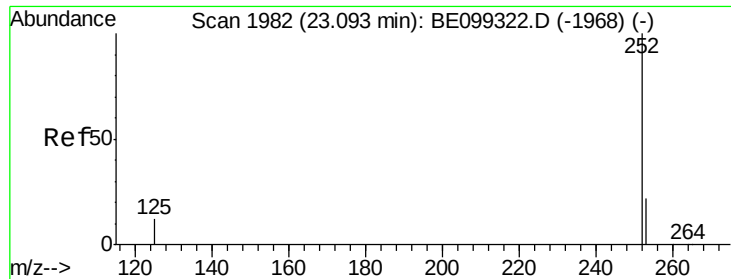
Tot Ion:276 Resp: 13516
 Ion Ratio Lower Upper
 276 100
 138 4.9 12.7 19.1#
 277 21.5 19.6 29.4



#34
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.88 min Scan# 2202
 Delta R.T. 0.02 min
 Lab File: BE099399.D
 Acq: 27 Apr 2019 4:20

Tgt Ion:264 Resp: 28307
 Ion Ratio Lower Upper
 264 100
 260 26.1 20.1 30.1
 265 30.1 19.9 29.9#





#35

Benzo(b)fluoranthene

Concen: 0.431 ng

RT: 23.11 min Scan# 1986

Delta R.T. 0.02 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

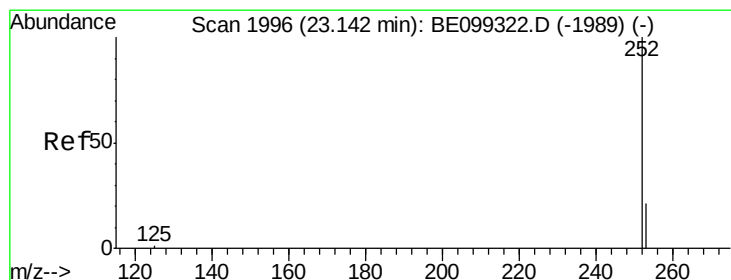
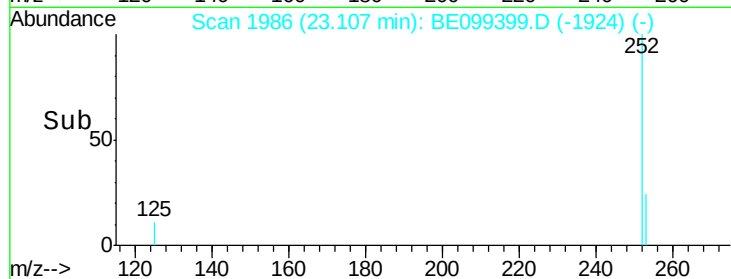
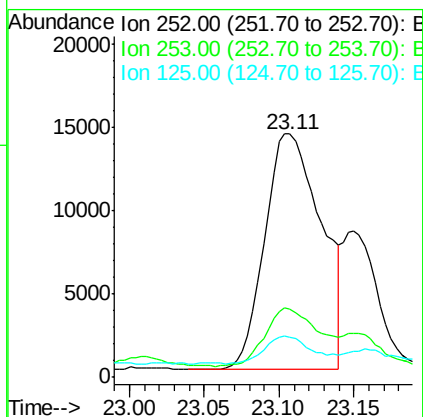
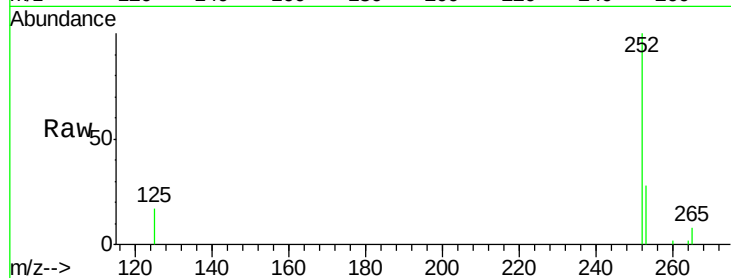
Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

Tot Ion:252	Resp:	37341
Ion Ratio	Lower	Upper
252	100	
253	28.1	17.3 25.9#
125	16.7	5.8 8.6#



#36

Benzo(k)fluoranthene

Concen: 0.432 ng

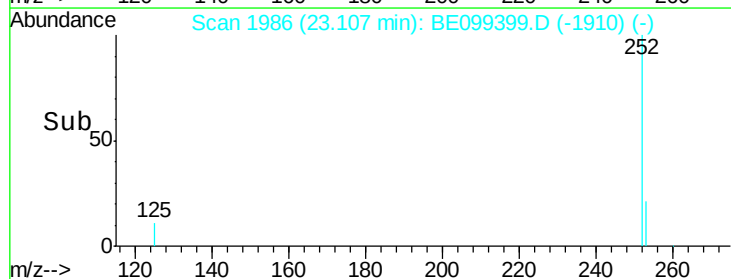
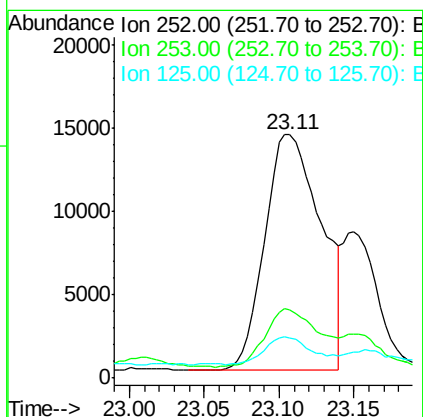
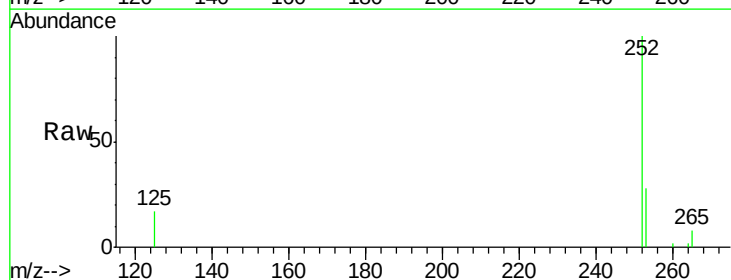
RT: 23.11 min Scan# 1986

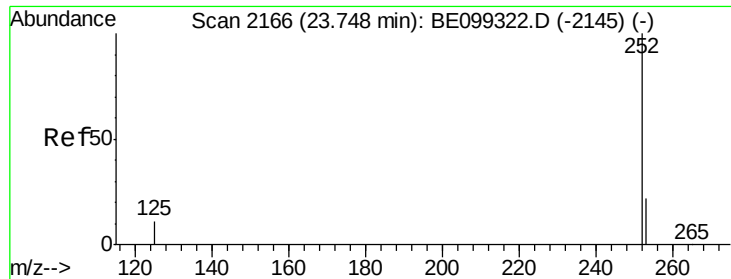
Delta R.T. -0.03 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Tgt Ion:252	Resp:	37341
Ion Ratio	Lower	Upper
252	100	
253	28.1	18.4 27.6#
125	16.7	5.4 8.0#





#37

Benzo(a)pyrene

Concen: 0.317 ng

RT: 23.76 min Scan# 2170

Delta R.T. 0.02 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219

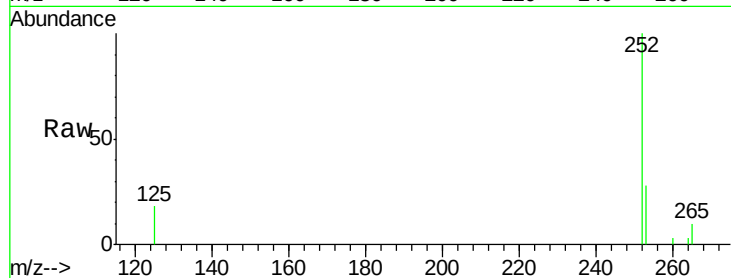
Tot Ion:252 Resp: 24587

Ion Ratio Lower Upper

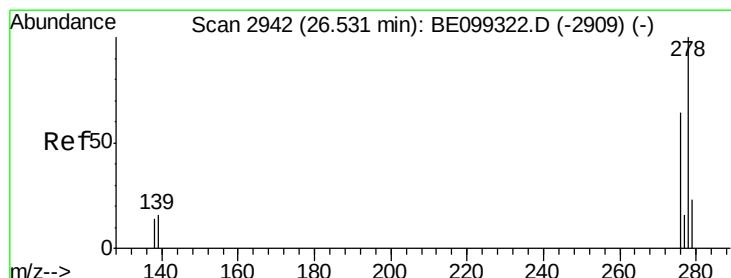
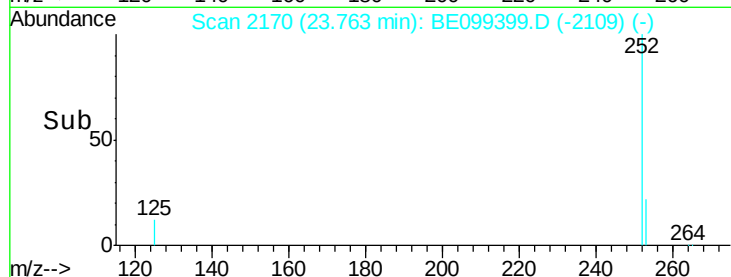
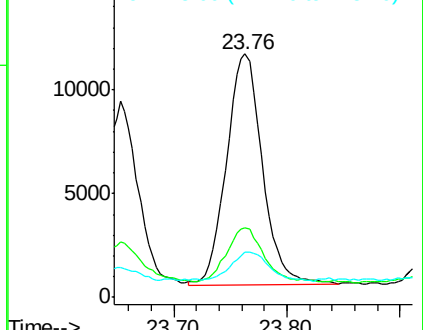
252 100

253 28.4 17.6 26.4#

125 18.5 6.5 9.7#



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: 0.023 ng

RT: 26.54 min Scan# 2944

Delta R.T. 0.02 min

Lab File: BE099399.D

Acq: 27 Apr 2019 4:20

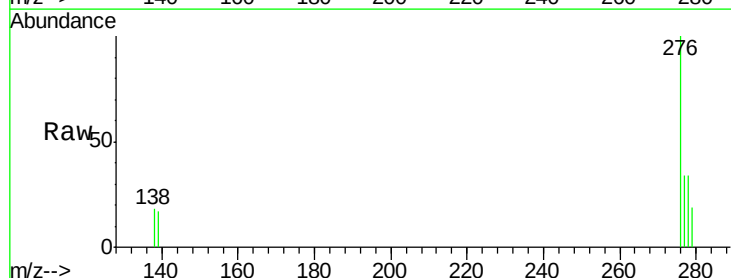
Tgt Ion:278 Resp: 1789

Ion Ratio Lower Upper

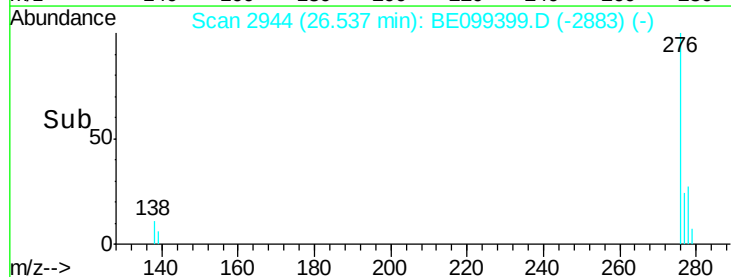
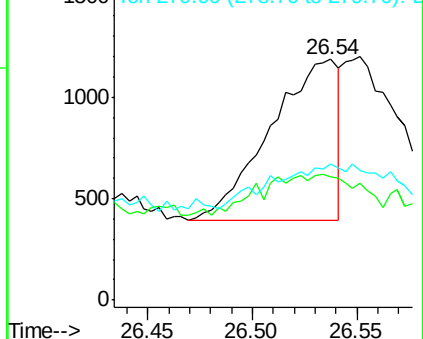
278 100

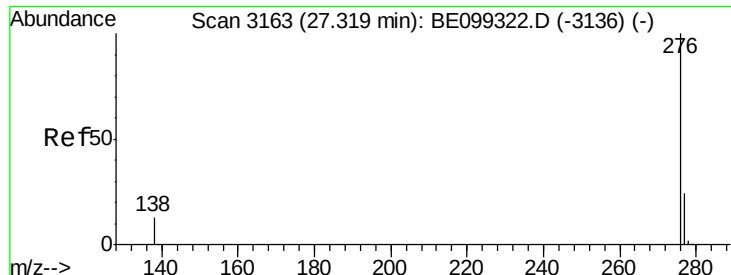
139 51.4 8.5 12.7#

279 56.3 19.8 29.8#



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: 0.151 ng

RT: 27.34 min Scan# 3169

Delta R.T. 0.03 min

Lab File: BE099399.D

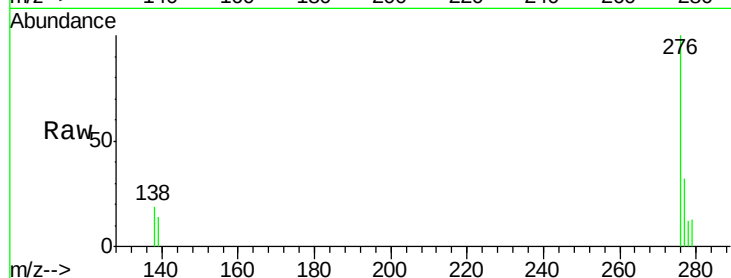
Acq: 27 Apr 2019 4:20

Instrument :

BNA_E

ClientSampleId :

EXT-027-SW020-042219



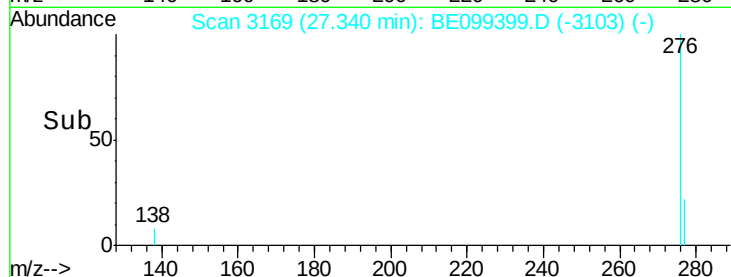
Tot Ion: 276 Resp: 12143

Ion Ratio Lower Upper

276 100

277 32.5 20.0 30.0#

138 18.8 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

