

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE110118\
 Data File : BE098149.D
 Acq On : 1 Nov 2018 16:47
 Operator : SJ/JU
 Sample : J5665-09
 Misc :
 ALS Vial : 6 Sample Multiplier: 50

Instrument :
 BNA_E
 ClientSampleId :
 TWP-04

Quant Time: Nov 02 13:17:04 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE110118.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 01 13:00:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	60148	20.00	ng	-0.01
7) Naphthalene-d8	10.67	136	282714	20.00	ng	0.00
13) Acenaphthene-d10	14.53	164	192211	20.00	ng	-0.01
19) Phenanthrene-d10	17.28	188	451556	20.00	ng	0.00
27) Chrysene-d12	21.48	240	506620	20.00	ng	0.01
34) Perylene-d12	24.02	264	518087	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.46	112	154717	43.33	ng	0.00
5) Phenol-d6	7.04	99	166473	28.31	ng	-0.01
8) Nitrobenzene-d5	9.03	82	360657	59.48	ng	0.00
11) 2-Methylnaphthalene-d10	12.27	152	50	0.01	ng	0.00
14) 2,4,6-Tribromophenol	16.03	330	174063	95.62	ng	0.00
15) 2-Fluorobiphenyl	13.16	172	777603	49.20	ng	0.00
25) Fluoranthene-d10	19.33	212	43	0.00	ng	0.02
29) Terphenyl-d14	19.91	244	1094219	46.44	ng	0.00

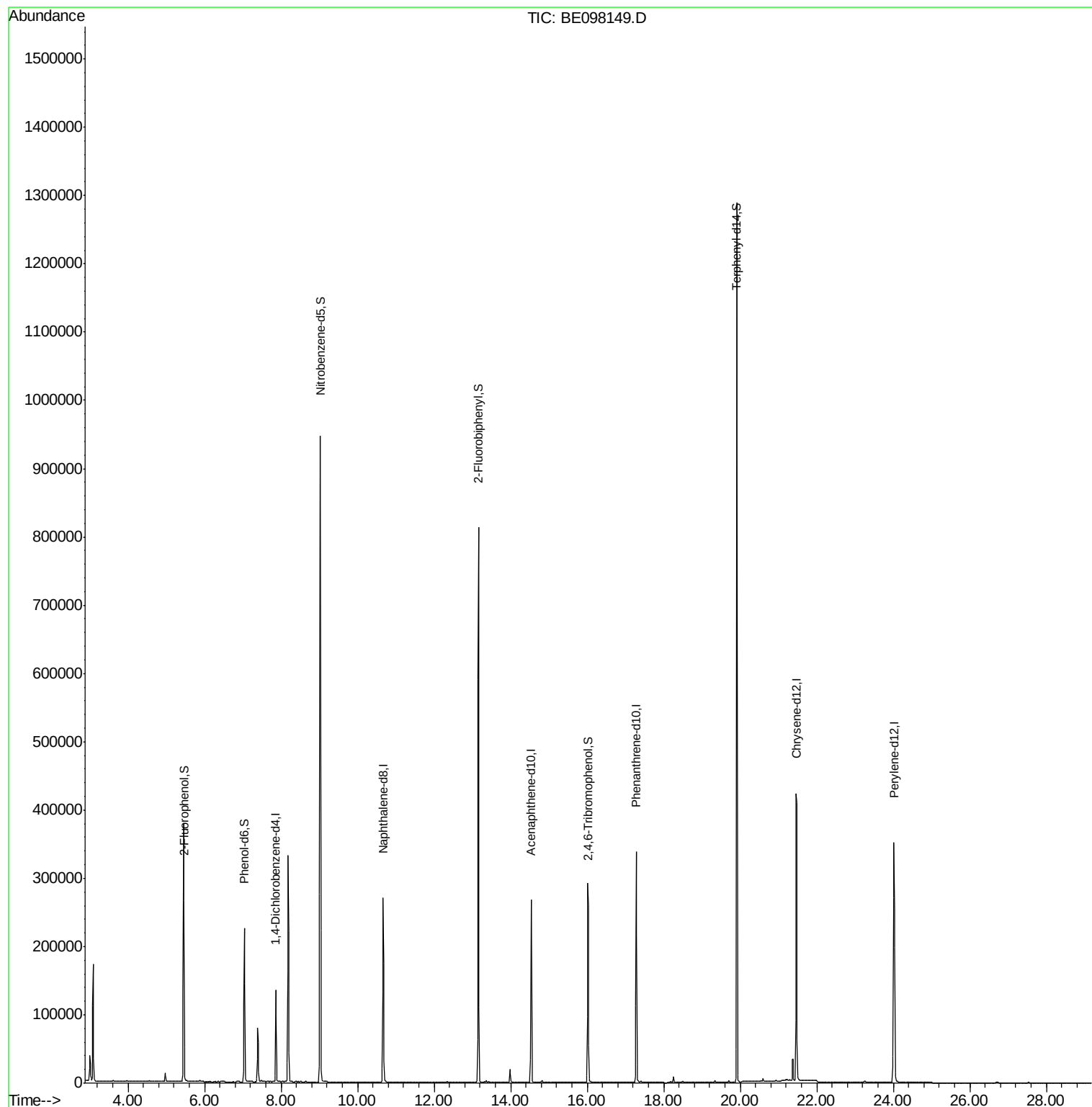
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.72	128	2661	0.047	ng	# 93
12) 2-Methylnaphthalene	12.34	142	622	0.062	ng	# 87
23) Phenanthrene	17.33	178	2312	0.103	ng	# 98
24) Anthracene	17.42	178	476	0.022	ng	# 93
26) Fluoranthene	19.34	202	3005	0.107	ng	# 98
28) Pyrene	19.71	202	2802	0.101	ng	# 96
30) Benzo(a)anthracene	21.45	228	4259	0.144	ng	# 92
33) Indeno(1,2,3-cd)pyrene	26.71	276	1067	0.035	ng	# 89
35) Benzo(b)fluoranthene	23.24	252	3727	0.128	ng	# 88
37) Benzo(a)pyrene	23.90	252	1019	0.036	ng	# 60
39) Benzo(a,h,i)perylene	27.53	276	1049	0.040	ng	# 74

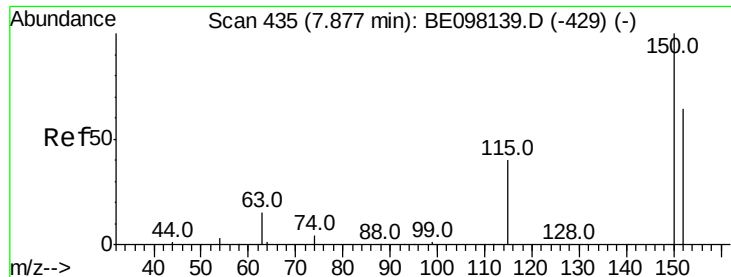
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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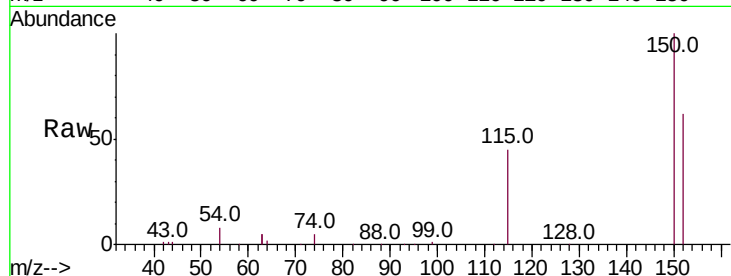


#1

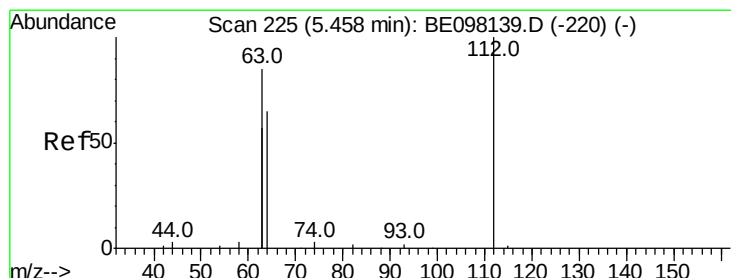
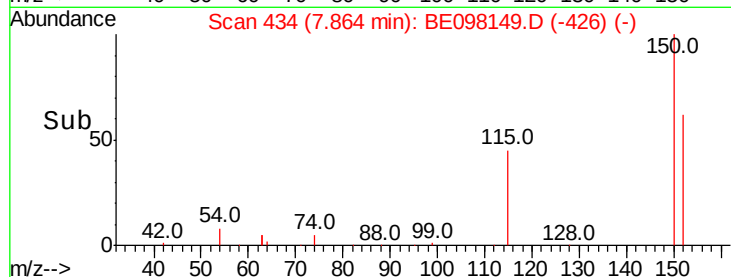
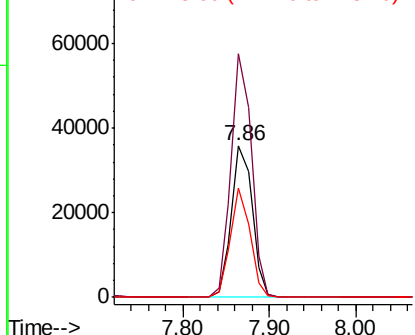
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.86 min Scan# 434
Delta R.T. -0.01 min
Lab File: BE098149.D
Acq: 1 Nov 2018 16:47

Instrument :
BNA_E
ClientSampleId :
TWP-04

Tot Ion:152 Resp: 60148
Ion Ratio Lower Upper
152 100
150 160.2 118.2 177.4
115 71.5 50.9 76.3



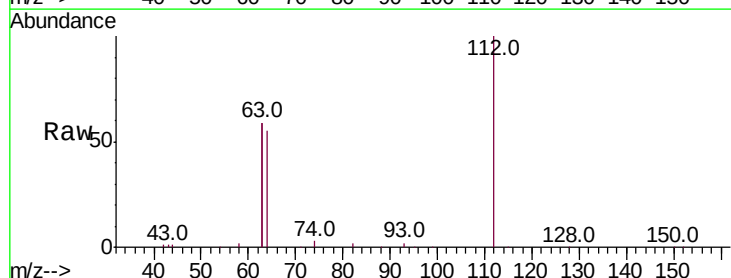
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



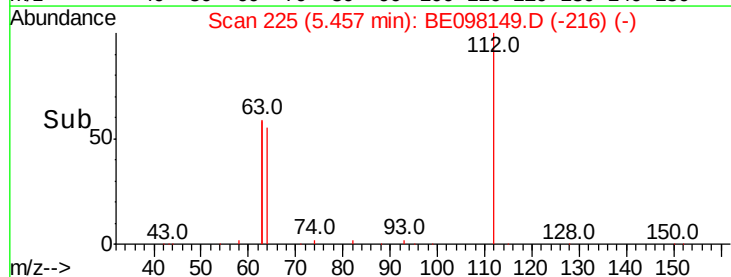
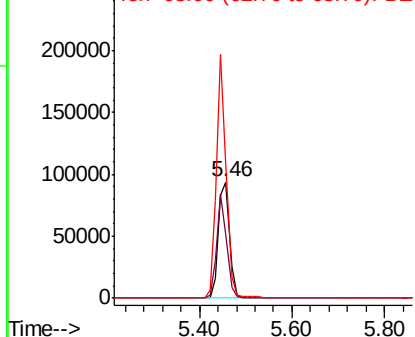
#4

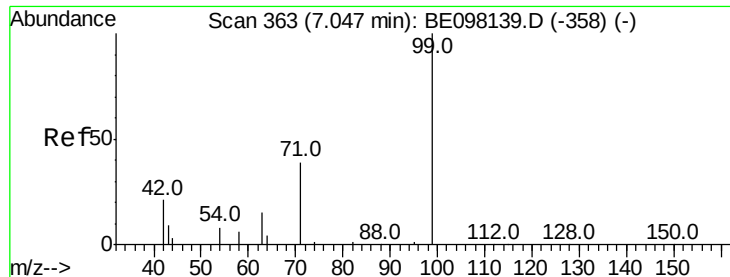
2-Fluorophenol
Concen: 43.330 ng
RT: 5.46 min Scan# 225
Delta R.T. -0.00 min
Lab File: BE098149.D
Acq: 1 Nov 2018 16:47

Tgt Ion:112 Resp: 154717
Ion Ratio Lower Upper
112 100
64 80.1 58.9 88.3
63 186.4 120.3 180.5#



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: 28.309 ng

RT: 7.04 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampled :

TWP-04

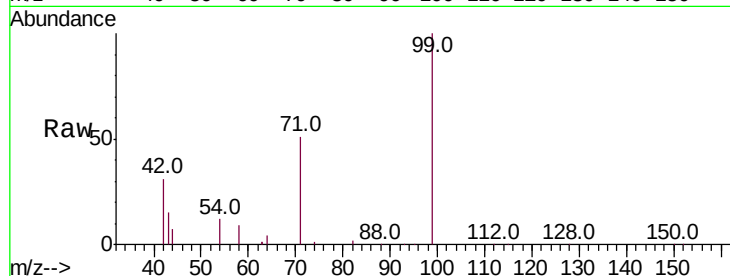
Tot Ion: 99 Resp: 166473

Ion Ratio Lower Upper

99 100

42 30.9 19.9 29.9#

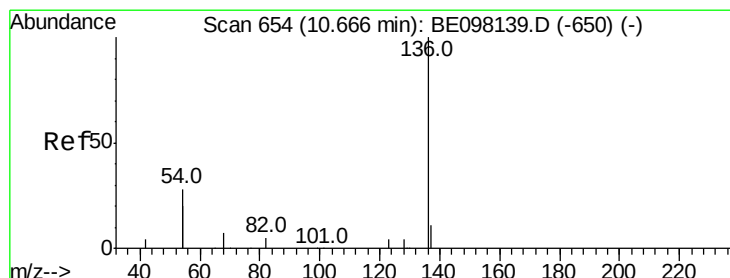
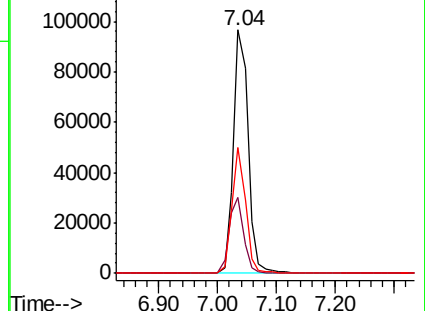
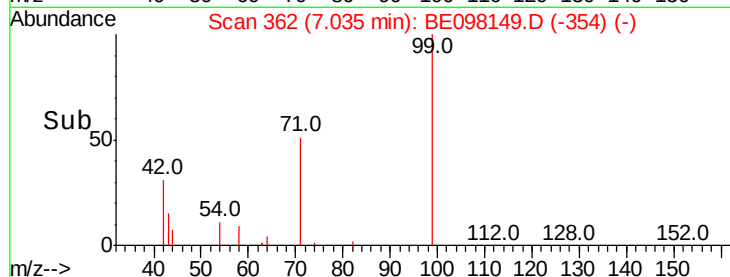
71 47.7 27.8 41.8#



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: 20.000 ng

RT: 10.67 min Scan# 654

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Tgt Ion: 136 Resp: 282714

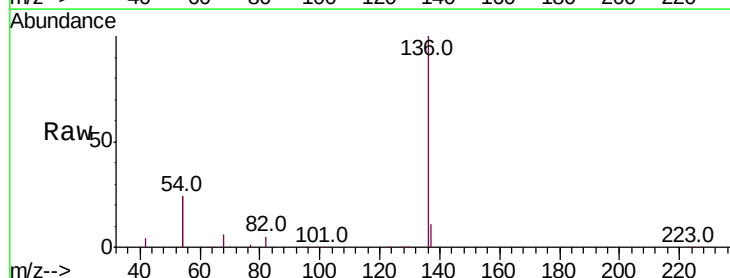
Ion Ratio Lower Upper

136 100

137 10.9 9.6 14.4

54 48.2 27.7 41.5#

68 6.3 5.3 7.9

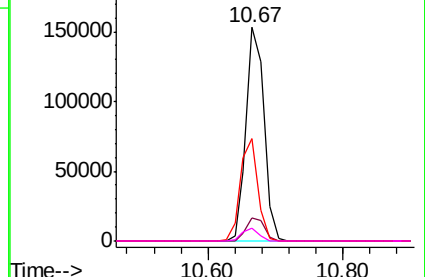
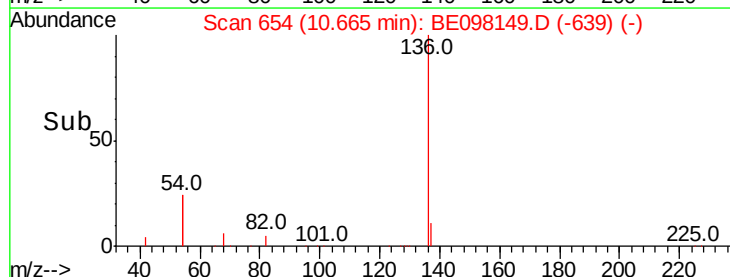


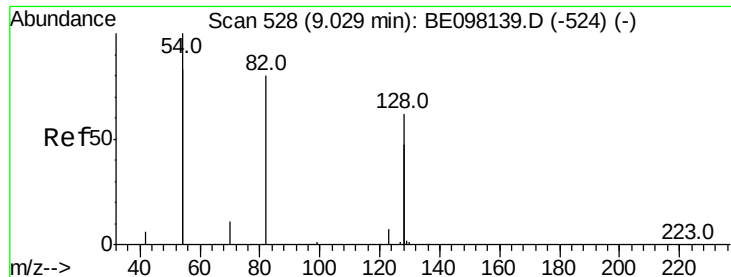
Abundance Ion 136.00 (135.70 to 136.70): E

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: 59.477 ng

RT: 9.03 min Scan# 528

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

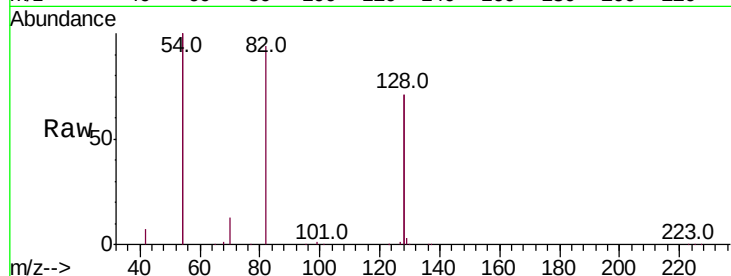
Tot Ion: 82 Resp: 360657

Ion Ratio Lower Upper

82 100

128 151.5 129.9 194.9

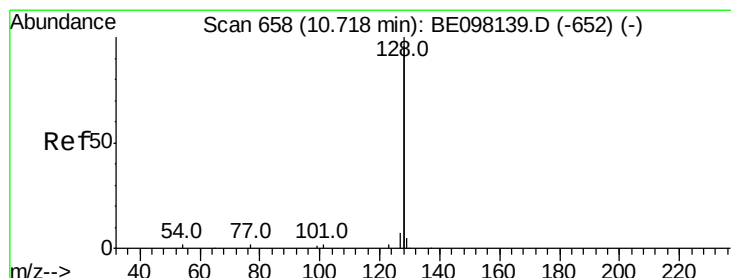
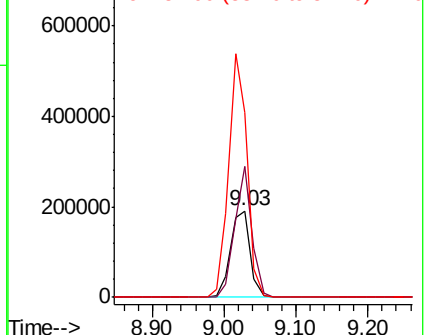
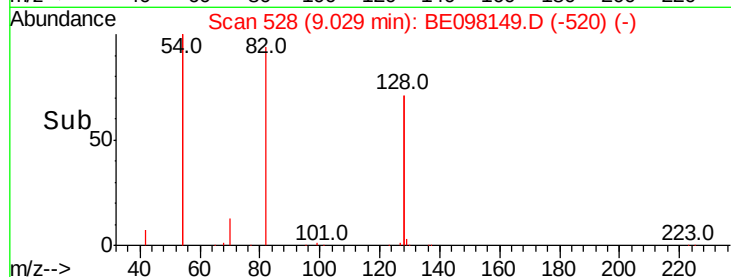
54 212.8 174.0 261.0



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: 0.047 ng

RT: 10.72 min Scan# 658

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

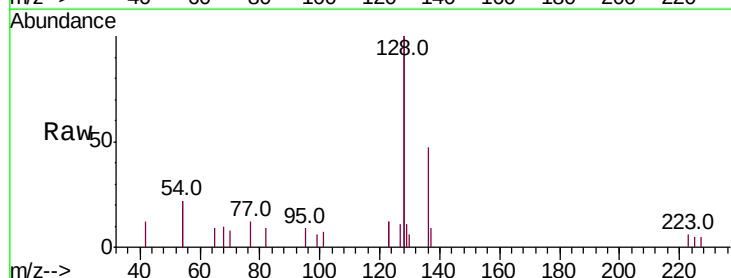
Tgt Ion: 128 Resp: 2661

Ion Ratio Lower Upper

128 100

129 5.7 2.5 3.7#

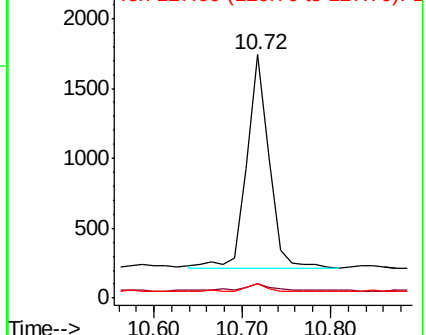
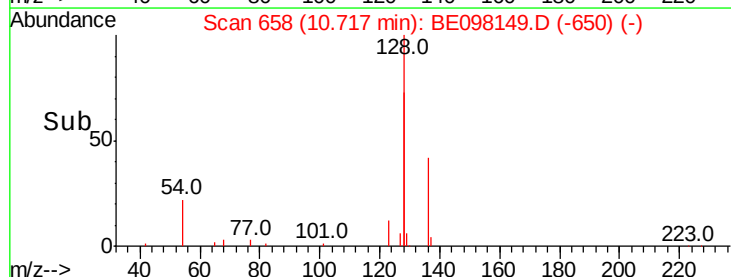
127 5.7 2.8 4.2#

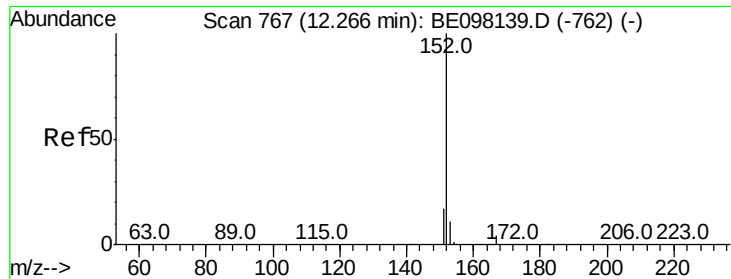


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

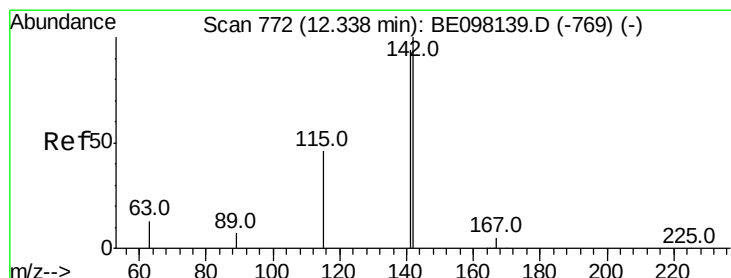
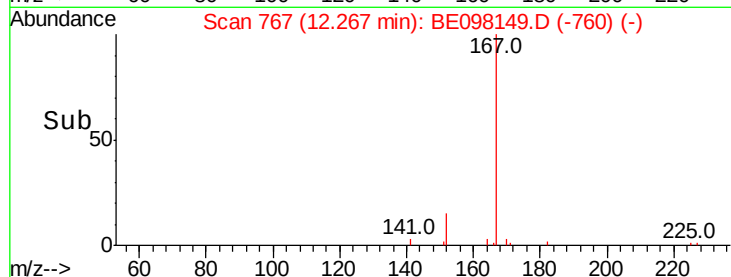
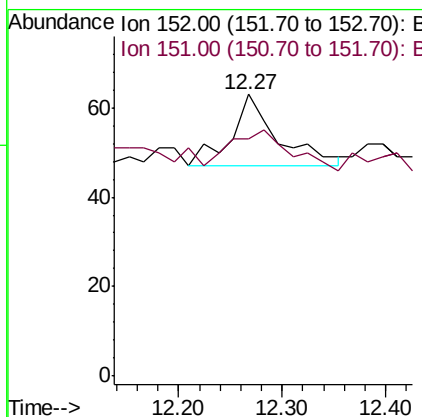
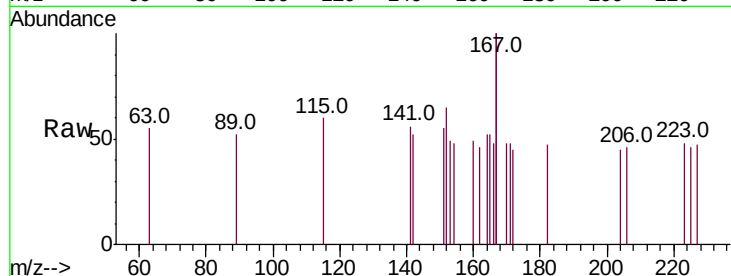




#11
2-Methylnaphthalene-d10
Concen: 0.005 ng
RT: 12.27 min Scan# 767
Delta R.T. 0.00 min
Lab File: BE098149.D
Acq: 1 Nov 2018 16:47

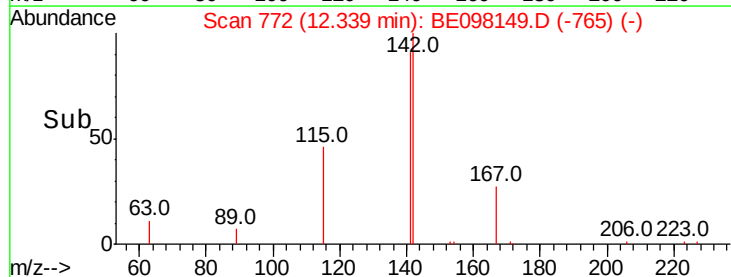
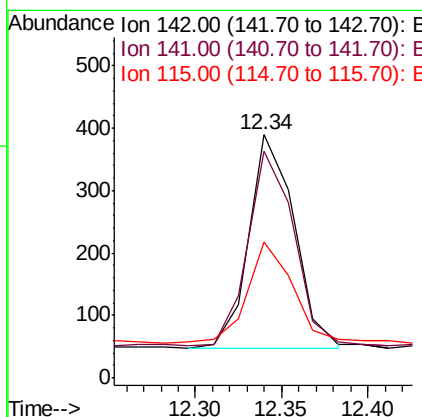
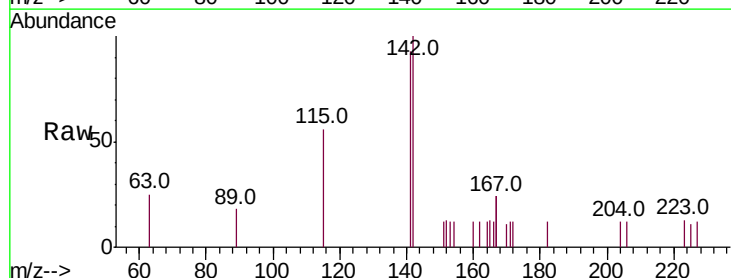
Instrument :
BNA_E
ClientSampleId :
TWP-04

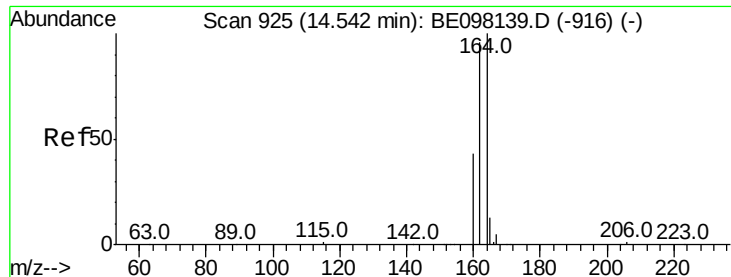
Tot Ion:152 Resp: 50
Ion Ratio Lower Upper
152 100
151 72.0 16.2 24.4#



#12
2-Methylnaphthalene
Concen: 0.062 ng
RT: 12.34 min Scan# 772
Delta R.T. 0.00 min
Lab File: BE098149.D
Acq: 1 Nov 2018 16:47

Tgt Ion:142 Resp: 622
Ion Ratio Lower Upper
142 100
141 93.1 69.8 104.6
115 55.9 30.5 45.7#





#13

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.01 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

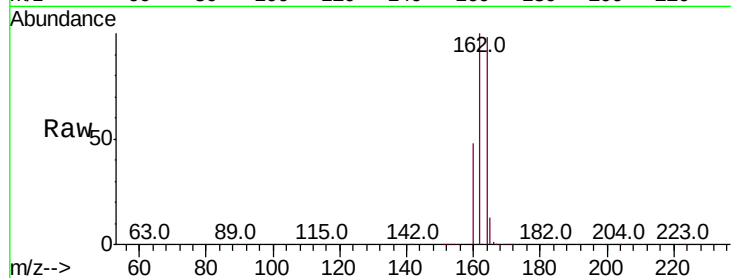
Tot Ion:164 Resp: 192211

Ion Ratio Lower Upper

164 100

162 101.7 77.4 116.2

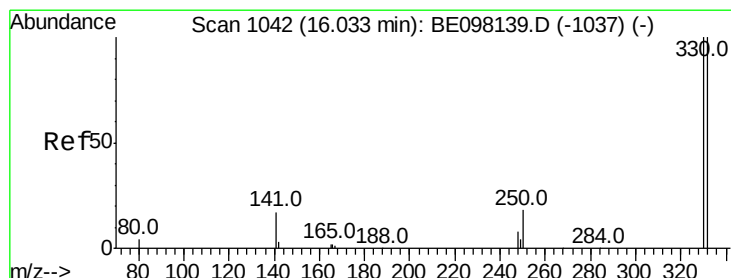
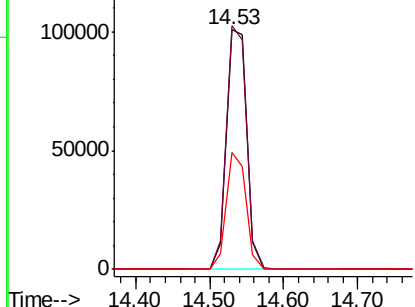
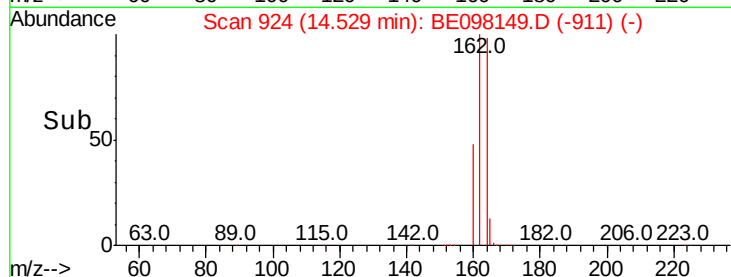
160 48.6 36.5 54.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 95.622 ng

RT: 16.03 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

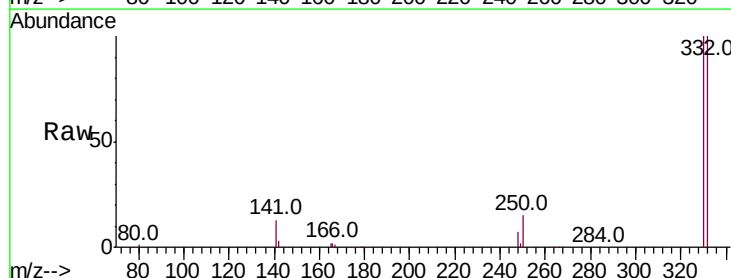
Tgt Ion:330 Resp: 174063

Ion Ratio Lower Upper

330 100

332 96.1 76.5 114.7

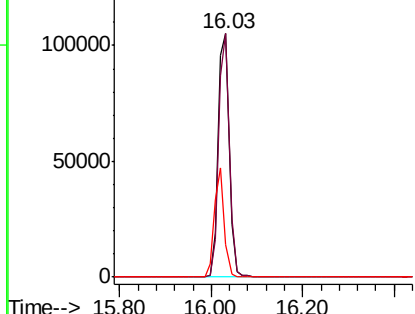
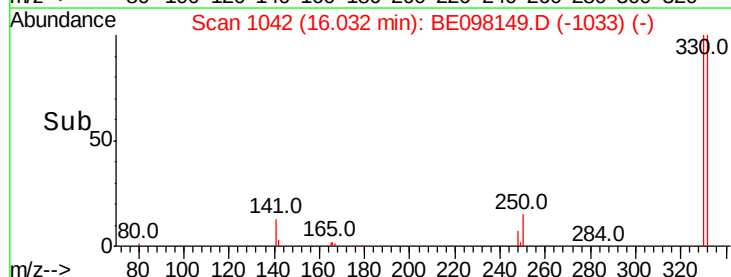
141 41.2 31.8 47.6

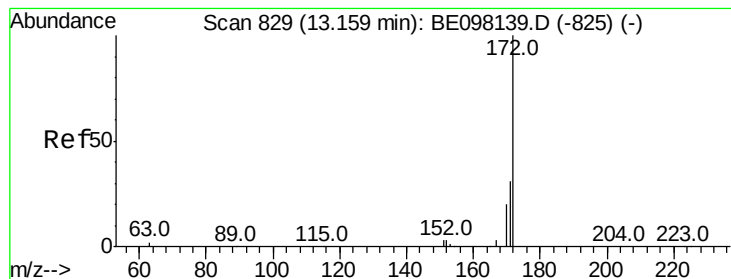


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

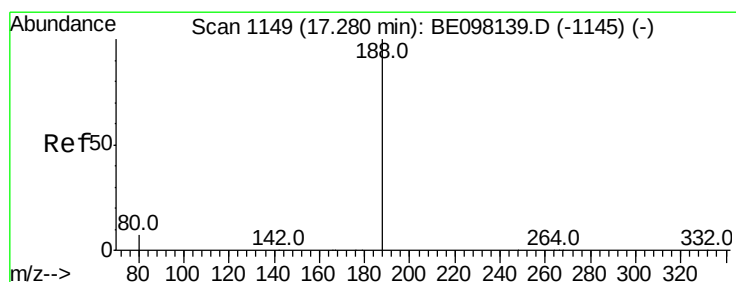
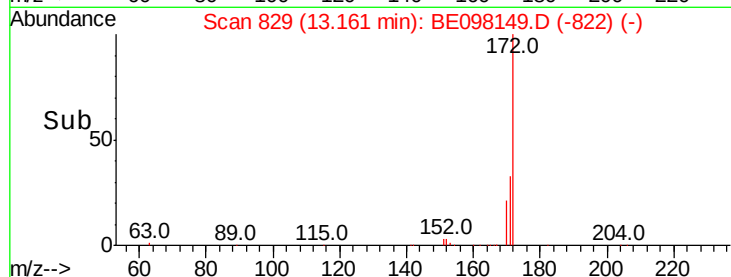
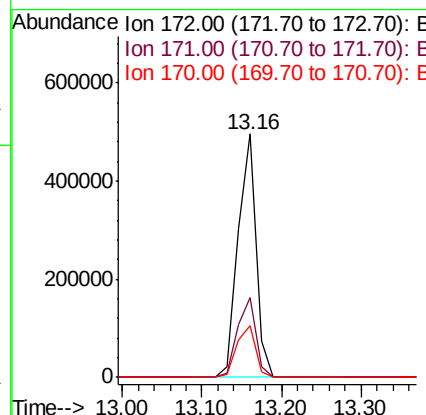
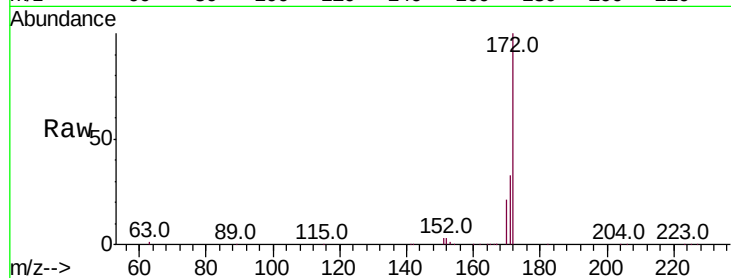




#15
2-Fluorobiphenyl
Concen: 49.200 ng
RT: 13.16 min Scan# 829
Delta R.T. 0.00 min
Lab File: BE098149.D
Acq: 1 Nov 2018 16:47

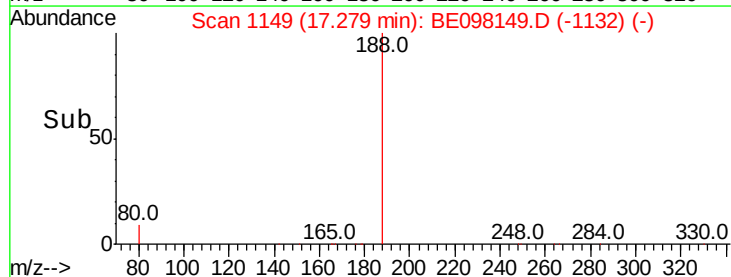
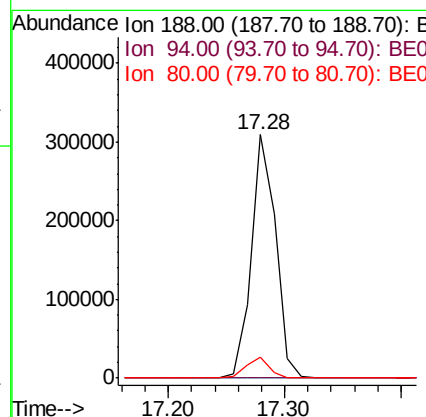
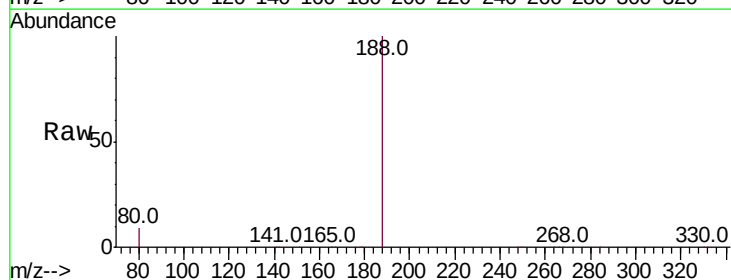
Instrument :
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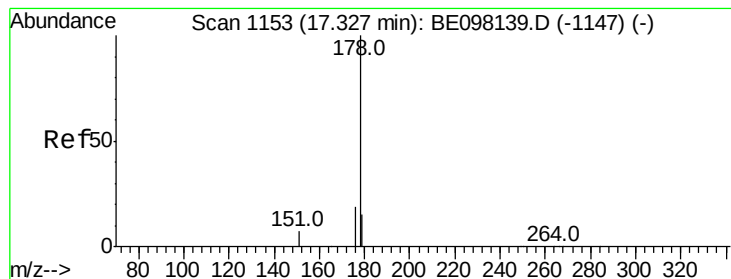
Tot Ion:172 Resp: 777603
Ion Ratio Lower Upper
172 100
171 32.5 26.0 39.0
170 21.4 18.0 27.0



#19
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.28 min Scan# 1149
Delta R.T. -0.00 min
Lab File: BE098149.D
Acq: 1 Nov 2018 16:47

Tgt Ion:188 Resp: 451556
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.6 6.3 9.5





#23

Phenanthrene

Concen: 0.103 ng

RT: 17.33 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

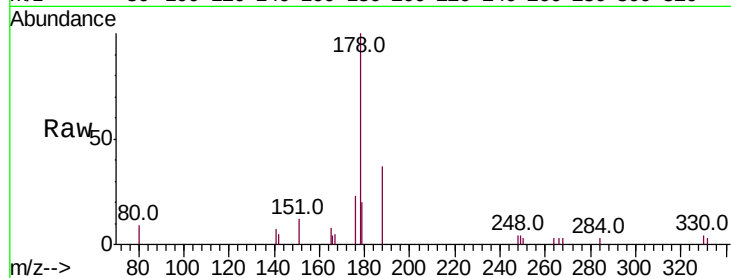
Tot Ion:178 Resp: 2312

Ion Ratio Lower Upper

178 100

176 18.3 15.5 23.3

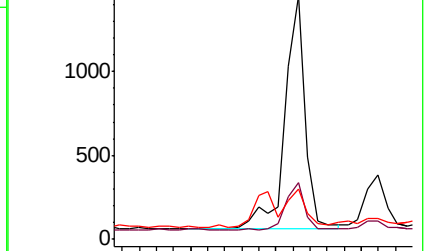
179 15.1 12.2 18.4



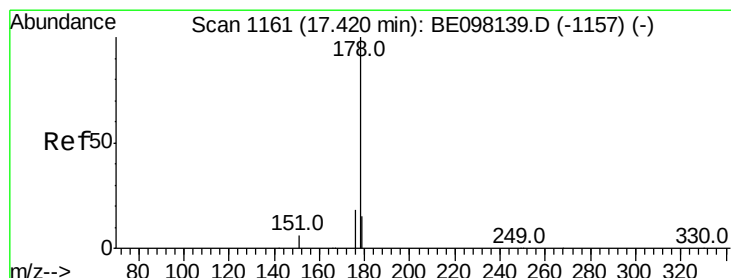
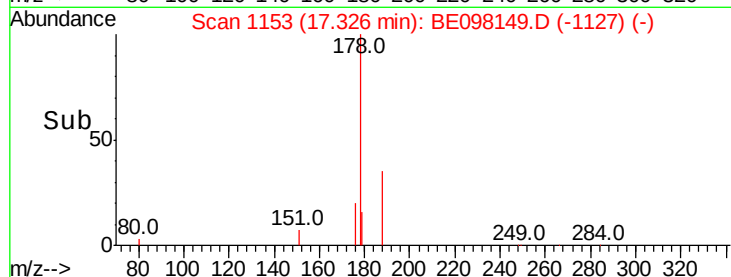
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#24

Anthracene

Concen: 0.022 ng

RT: 17.42 min Scan# 1161

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

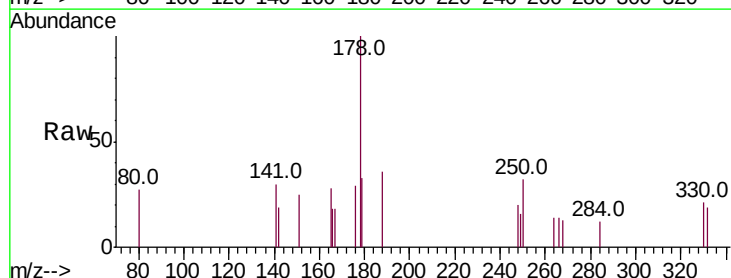
Tgt Ion:178 Resp: 476

Ion Ratio Lower Upper

178 100

176 19.7 14.9 22.3

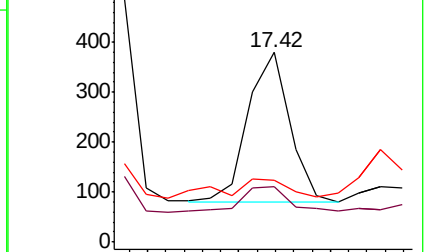
179 19.7 11.9 17.9#



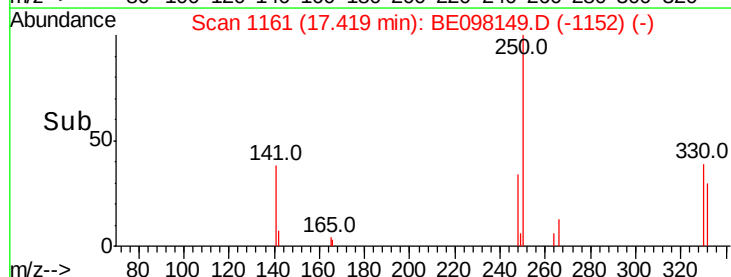
Abundance Ion 178.00 (177.70 to 178.70): E

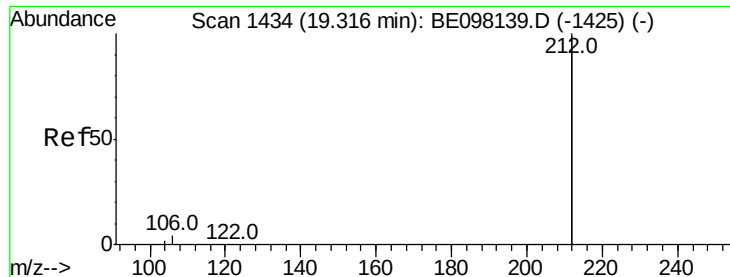
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#25

Fluoranthene-d10

Concen: 0.000 ng

RT: 19.33 min Scan# 1437

Delta R.T. 0.02 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

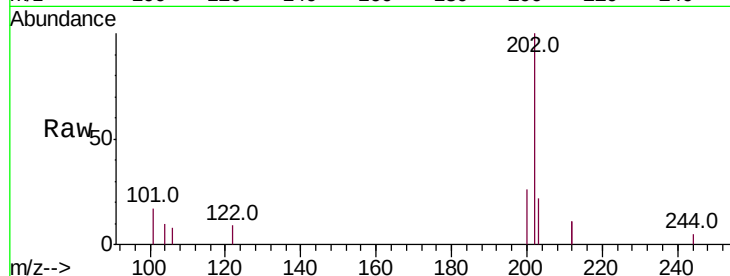
Tot Ion:212 Resp: 43

Ion Ratio Lower Upper

212 100

106 93.0 2.3 3.5#

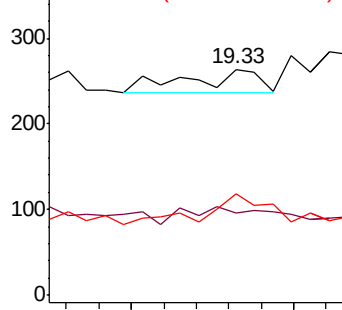
104 127.9 1.3 1.9#



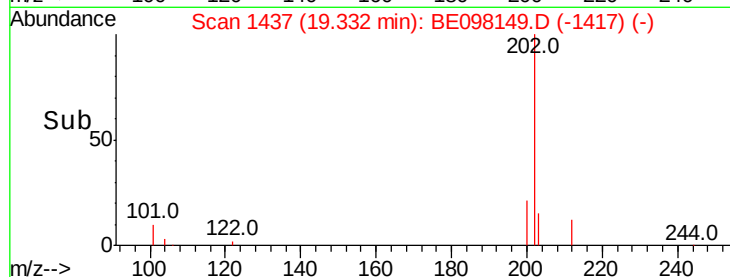
Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



Time-->



#26

Fluoranthene

Concen: 0.107 ng

RT: 19.34 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

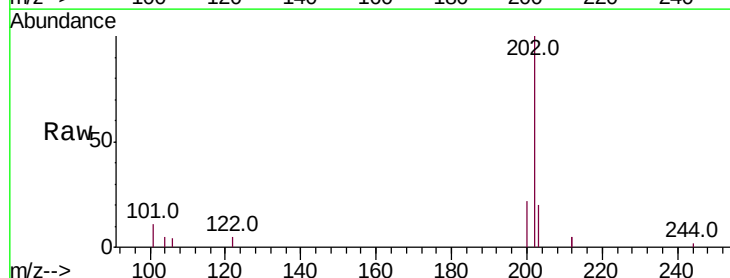
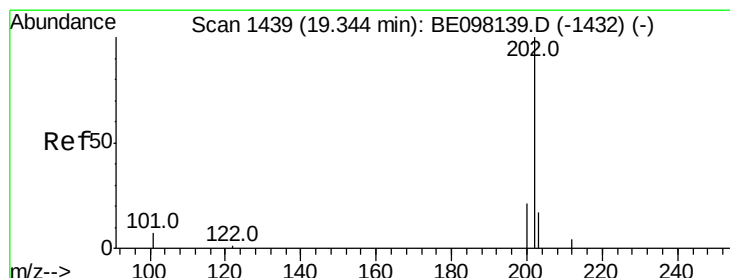
Tgt Ion:202 Resp: 3005

Ion Ratio Lower Upper

202 100

101 9.5 8.2 12.2

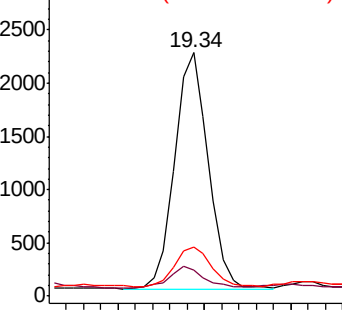
203 17.6 15.0 22.4



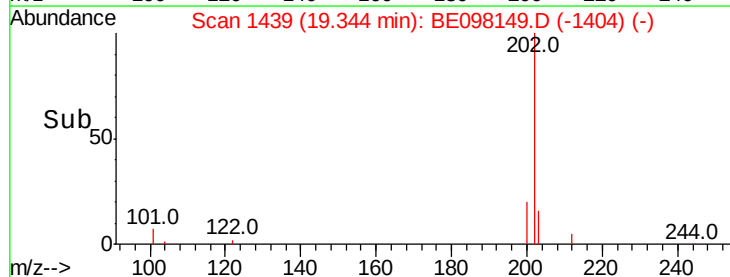
Abundance Ion 202.00 (201.70 to 202.70): E

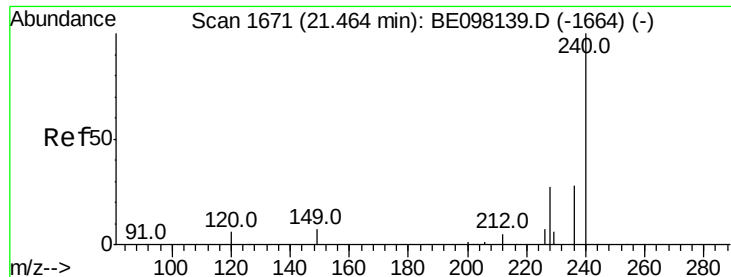
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#27

Chrysene-d12

Concen: 20.000 ng

RT: 21.48 min Scan# 1672

Delta R.T. 0.01 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

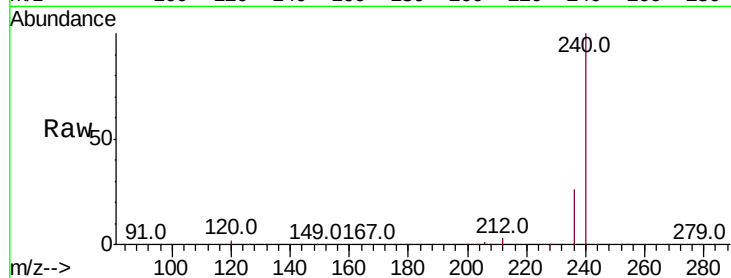
Tot Ion:240 Resp: 506620

Ion Ratio Lower Upper

240 100

120 2.3 7.1 10.7#

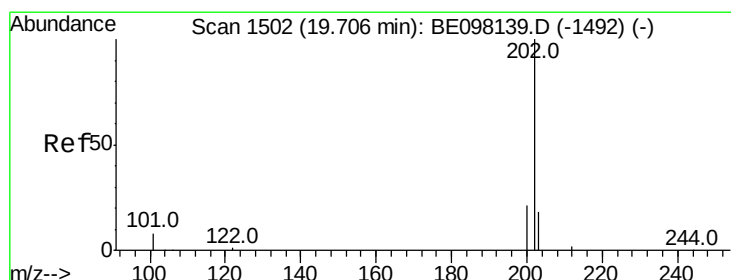
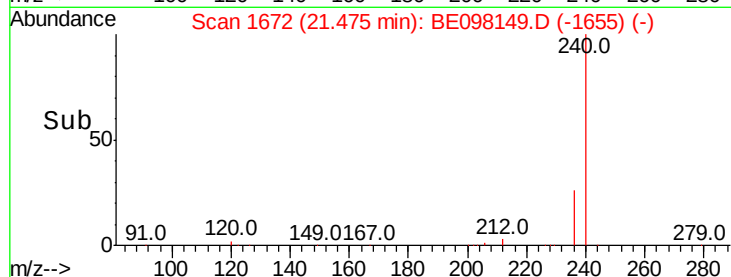
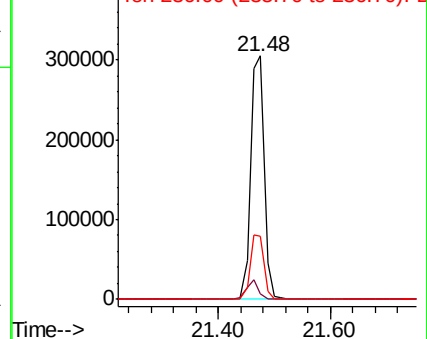
236 26.0 21.3 31.9



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: 0.101 ng

RT: 19.71 min Scan# 1502

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

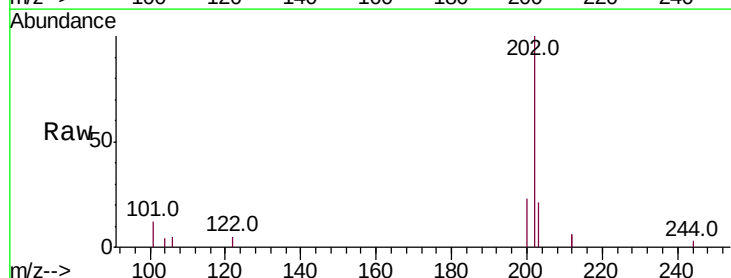
Tgt Ion:202 Resp: 2802

Ion Ratio Lower Upper

202 100

200 20.6 17.0 25.4

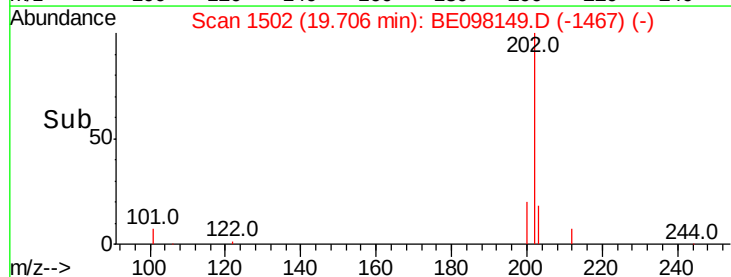
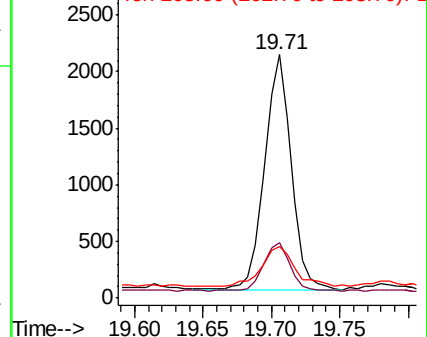
203 21.3 14.2 21.4

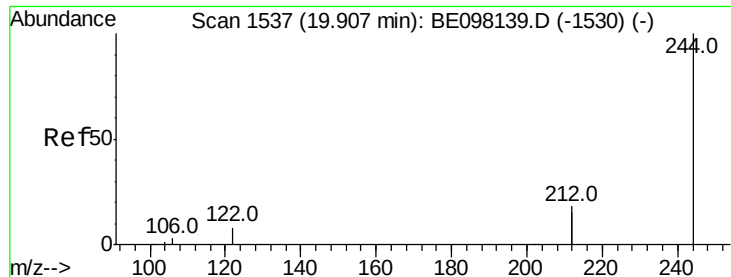


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 46.438 ng

RT: 19.91 min Scan# 1538

Delta R.T. 0.01 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

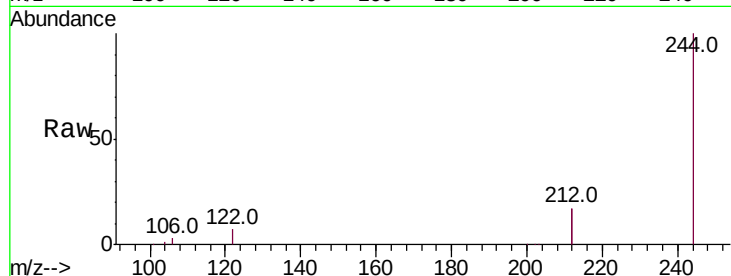
Tot Ion:244 Resp: 1094219

Ion Ratio Lower Upper

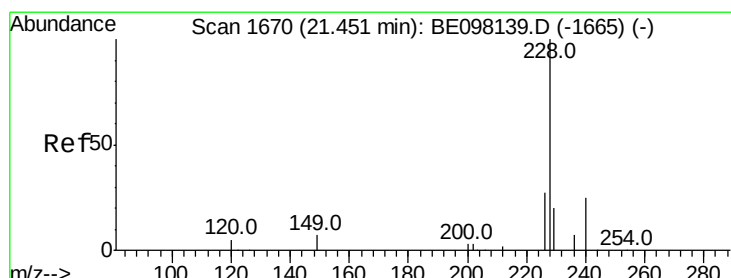
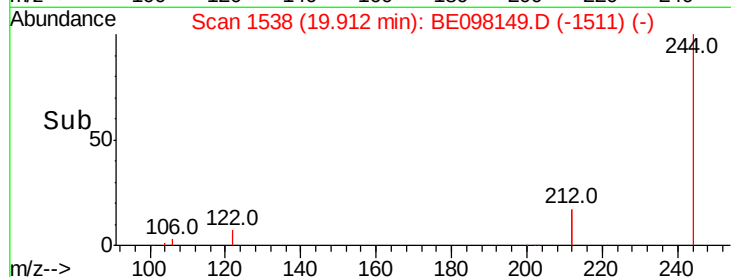
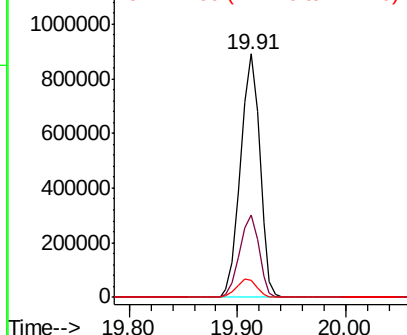
244 100

212 33.7 26.2 39.2

122 7.0 7.7 11.5#



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: 0.144 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

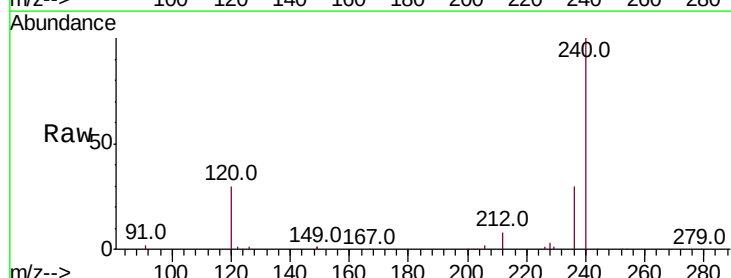
Tgt Ion:228 Resp: 4259

Ion Ratio Lower Upper

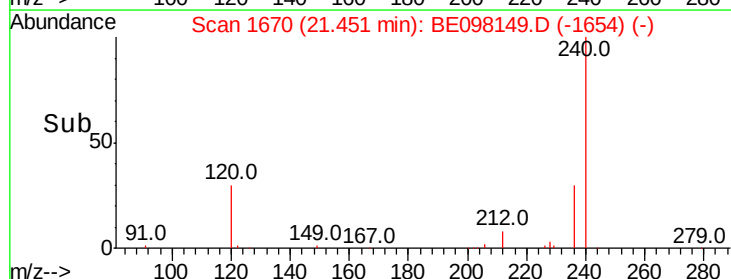
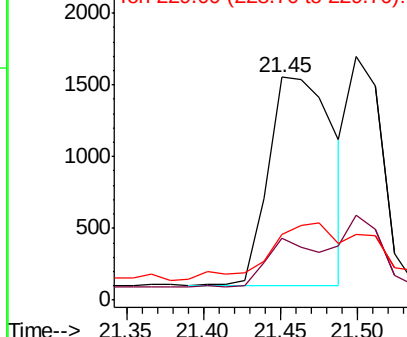
228 100

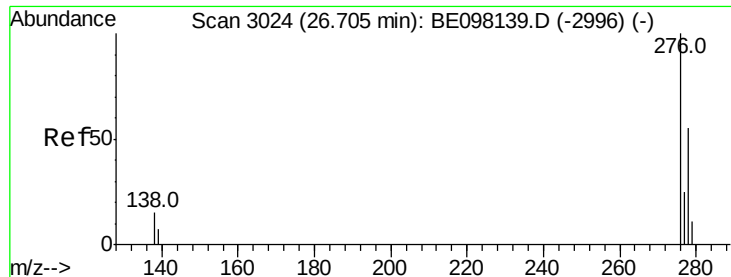
226 28.0 22.6 33.8

229 29.7 16.9 25.3#



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: 0.035 ng

RT: 26.71 min Scan# 3024

Delta R.T. 0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

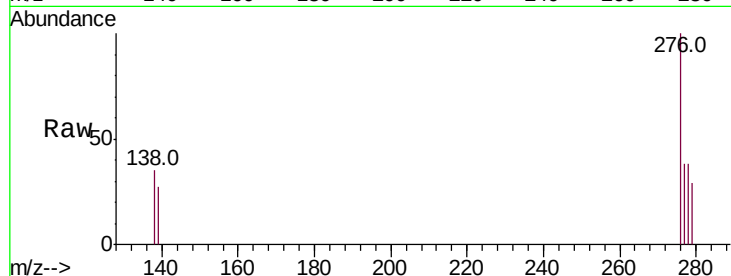
Tot Ion:276 Resp: 1067

Ion Ratio Lower Upper

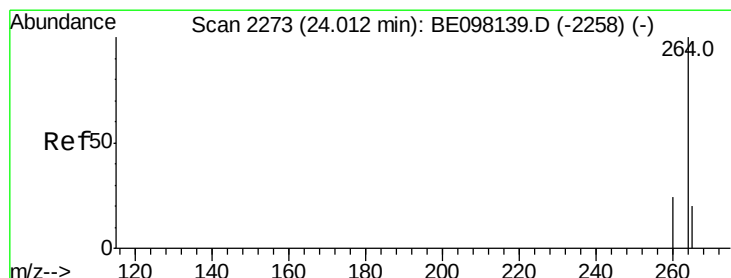
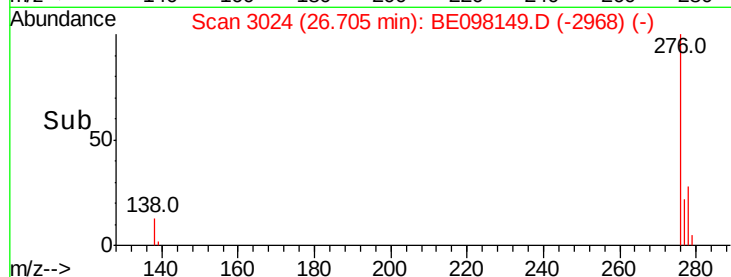
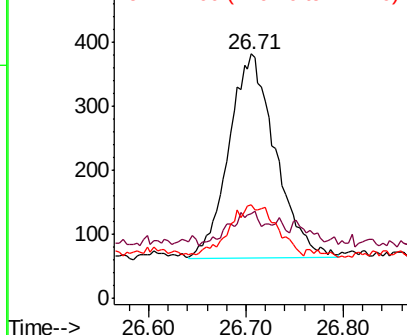
276 100

138 11.6 17.0 25.6#

277 24.5 20.5 30.7



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: 20.000 ng

RT: 24.02 min Scan# 2275

Delta R.T. 0.01 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

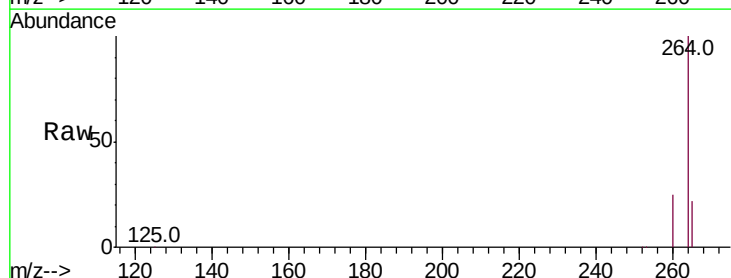
Tgt Ion:264 Resp: 518087

Ion Ratio Lower Upper

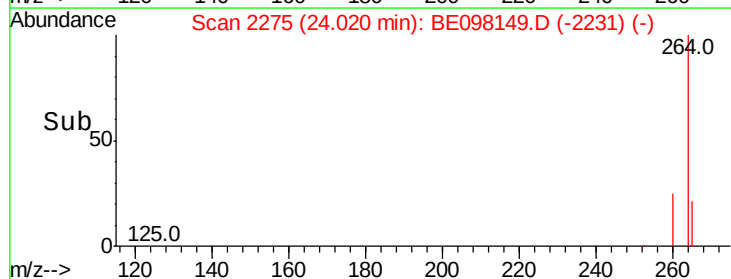
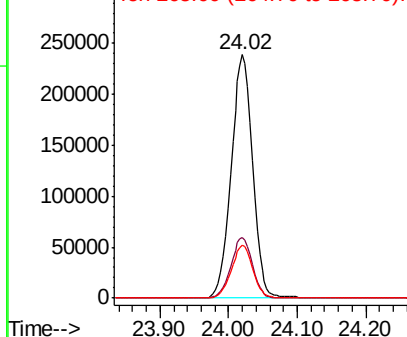
264 100

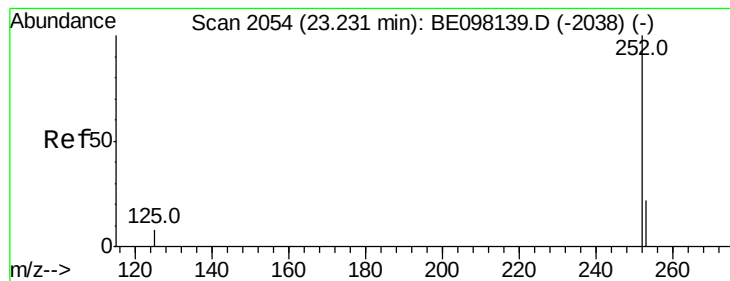
260 24.9 21.1 31.7

265 21.5 29.2 43.8#



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: 0.128 ng

RT: 23.24 min Scan# 2055

Delta R.T. 0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

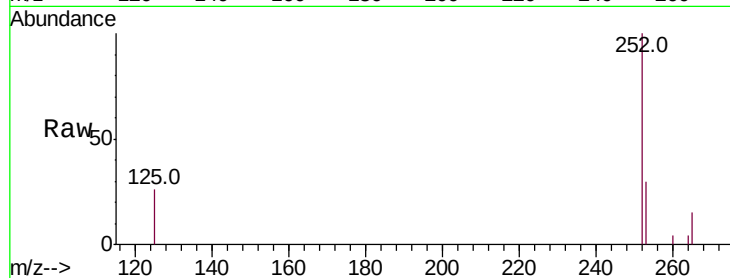
Tot Ion:252 Resp: 3727

Ion Ratio Lower Upper

252 100

253 29.6 20.6 31.0

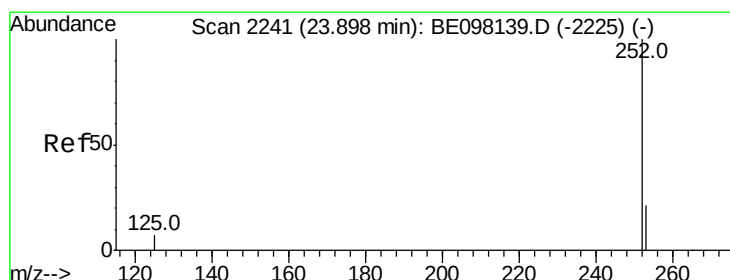
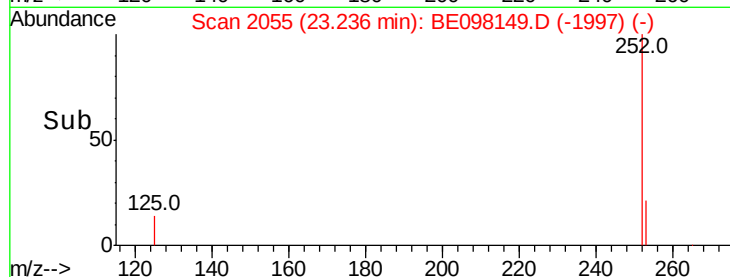
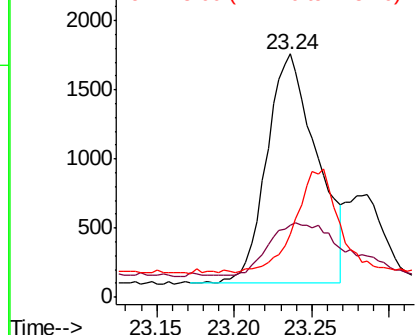
125 25.7 14.3 21.5#



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



#37

Benzo(a)pyrene

Concen: 0.036 ng

RT: 23.90 min Scan# 2242

Delta R.T. 0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

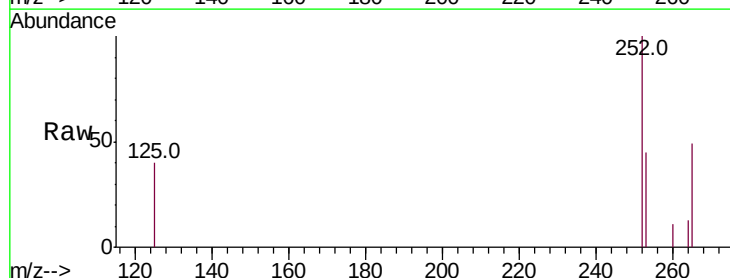
Tgt Ion:252 Resp: 1019

Ion Ratio Lower Upper

252 100

253 44.9 20.6 31.0#

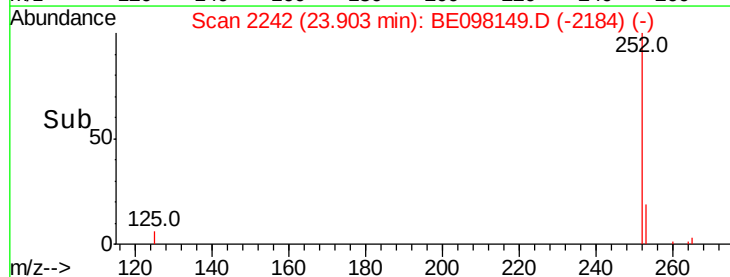
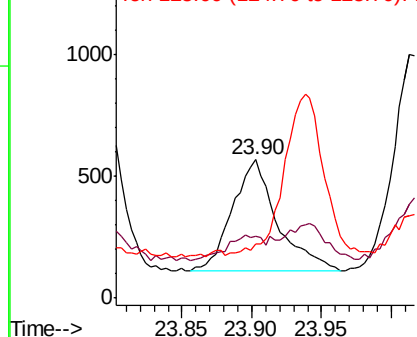
125 39.6 15.6 23.4#

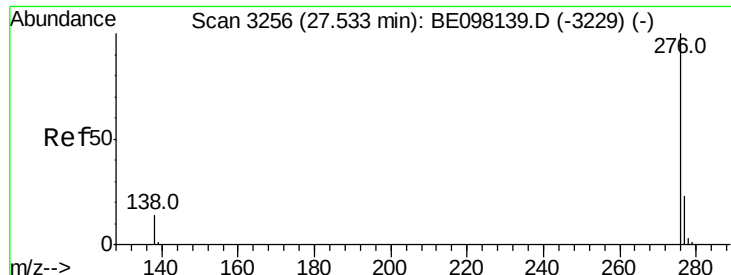


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.040 ng

RT: 27.53 min Scan# 3256

Delta R.T. 0.00 min

Lab File: BE098149.D

Acq: 1 Nov 2018 16:47

Instrument :

BNA_E

ClientSampleId :

TWP-04

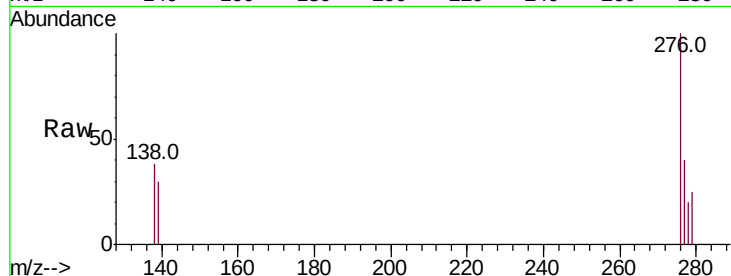
Tot Ion:276 Resp: 1049

Ion Ratio Lower Upper

276 100

277 40.2 22.1 33.1#

138 38.1 19.3 28.9#



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

