

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE093019\
 Data File : BE100584.D
 Acq On : 30 Sep 2019 16:46
 Operator : JU
 Sample : K4839-21
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Quant Time: Oct 01 04:26:42 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE092719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 27 18:32:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.86	152	3286	0.40	ng	0.00
7) Naphthalene-d8	10.64	136	14960	0.40	ng	-0.01
13) Acenaphthene-d10	14.49	164	8241	0.40	ng	0.00
19) Phenanthrene-d10	17.21	188	17543	0.40	ng	0.00
27) Chrysene-d12	21.37	240	28746	0.40	ng	0.00
34) Perylene-d12	23.85	264	31889	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.43	112	3751	0.39	ng	0.00
5) Phenol-d6	7.02	99	4653	0.35	ng	0.00
8) Nitrobenzene-d5	9.00	82	3643	0.34	ng	0.00
11) 2-Methylnaphthalene-d10	12.24	152	8195	0.35	ng	0.00
14) 2,4,6-Tribromophenol	15.97	330	480	0.20	ng	0.01
15) 2-Fluorobiphenyl	13.12	172	10900	0.38	ng	0.00
25) Fluoranthene-d10	19.23	212	90509	0.41	ng	0.00
29) Terphenyl-d14	19.83	244	22162	0.31	ng	0.00

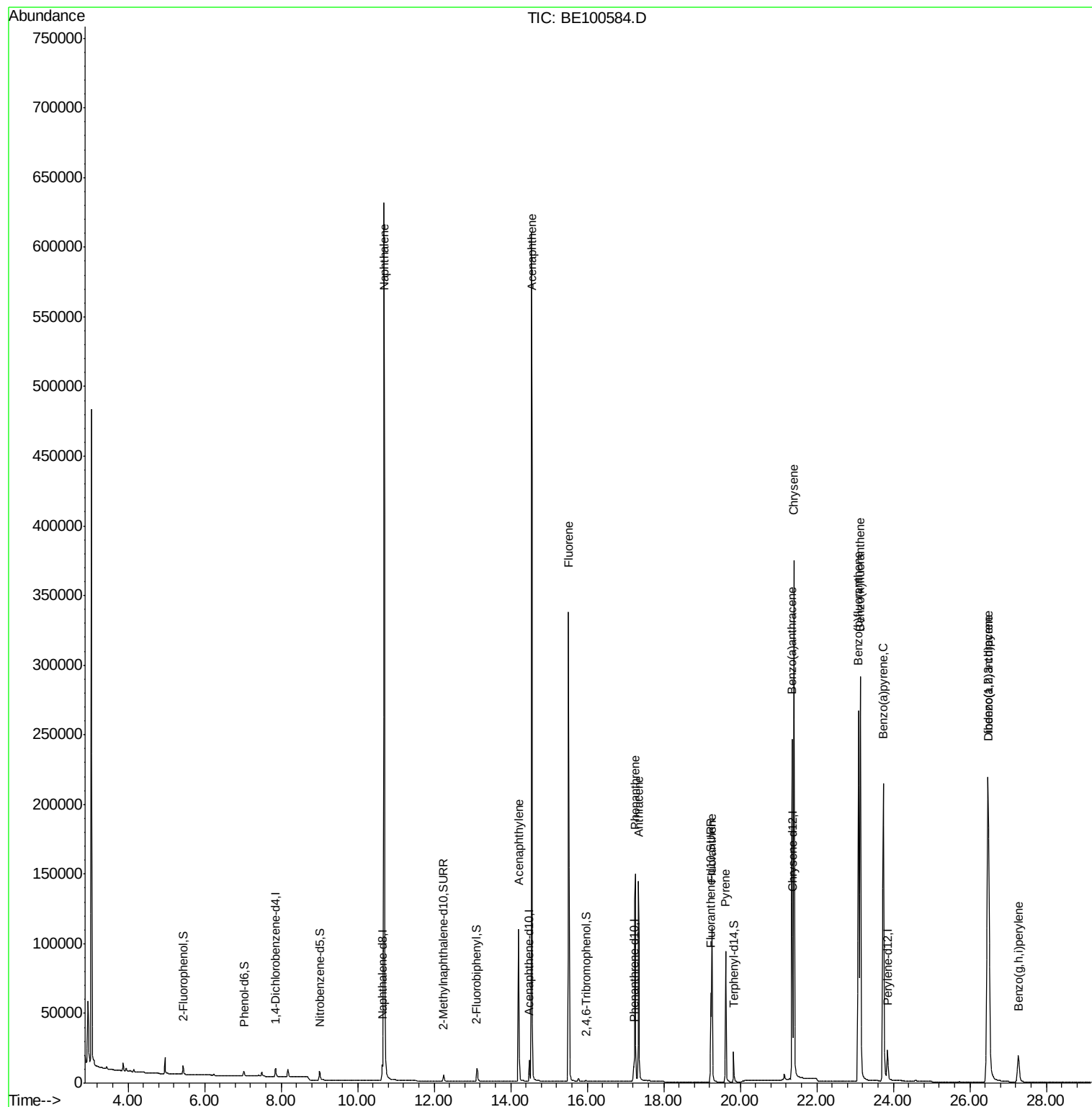
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.69	128	1045160	6.724	ng	100
16) Acenaphthylene	14.21	152	149072	4.060	ng	100
17) Acenaphthene	14.54	154	341956	14.490	ng	99
18) Fluorene	15.51	166	229257	7.479	ng	99
23) Phenanthrene	17.25	178	181747	3.674	ng	100
24) Anthracene	17.34	178	164326	3.670	ng	100
26) Fluoranthene	19.26	202	106615	1.714	ng	99
28) Pyrene	19.62	202	86377	0.992	ng	99
30) Benzo(a)anthracene	21.35	228	214854	2.537	ng	99
31) Chrysene	21.40	228	340245	3.941	ng	99
33) Indeno(1,2,3-cd)pyrene	26.47	276	406832	3.822	ng	98
35) Benzo(b)fluoranthene	23.09	252	367767	4.217	ng	98
36) Benzo(k)fluoranthene	23.14	252	444166	4.671	ng	# 94
37) Benzo(a)pyrene	23.74	252	361798	4.341	ng	97
38) Dibenzo(a,h)anthracene	26.49	278	249775	2.942	ng	98
39) Benzo(g,h,i)perylene	27.27	276	47955	0.553	ng	98

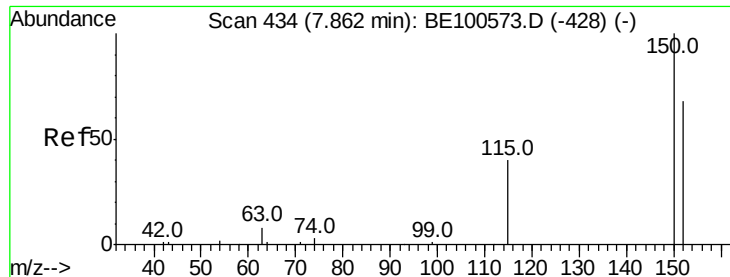
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. 0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

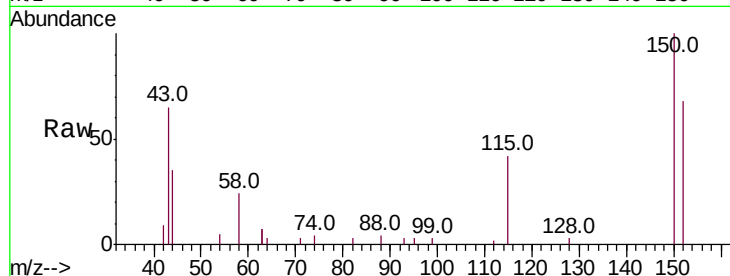
Tot Ion:152 Resp: 3286

Ion Ratio Lower Upper

152 100

150 146.5 116.9 175.3

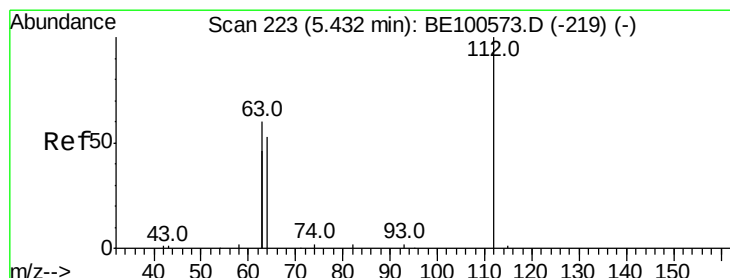
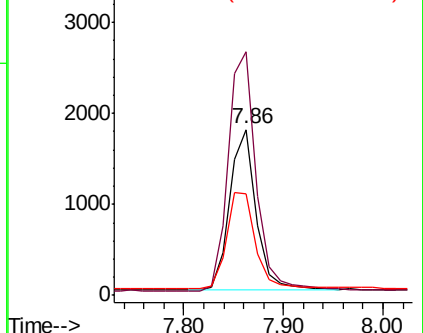
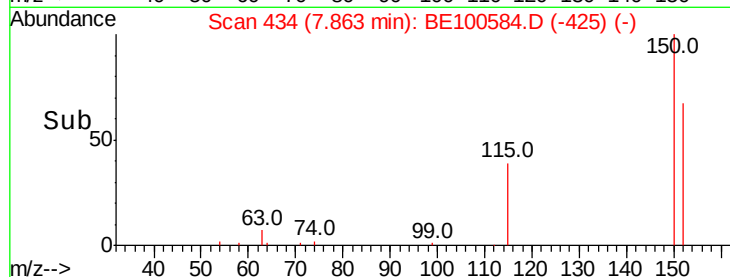
115 60.9 50.2 75.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.387 ng

RT: 5.43 min Scan# 223

Delta R.T. 0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

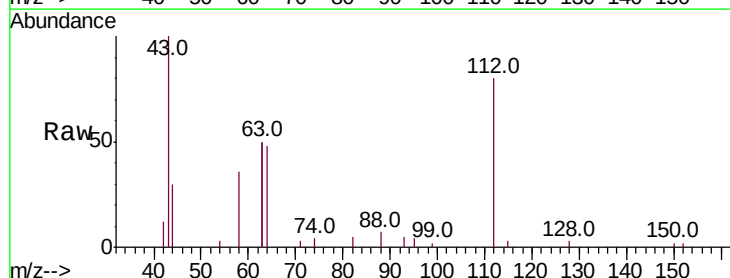
Tgt Ion:112 Resp: 3751

Ion Ratio Lower Upper

112 100

64 56.7 44.9 67.3

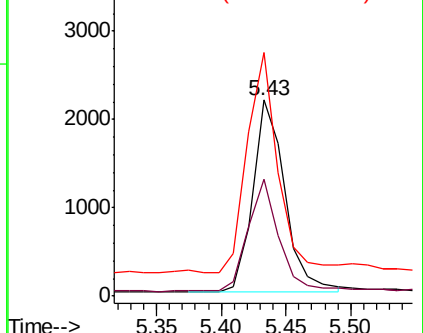
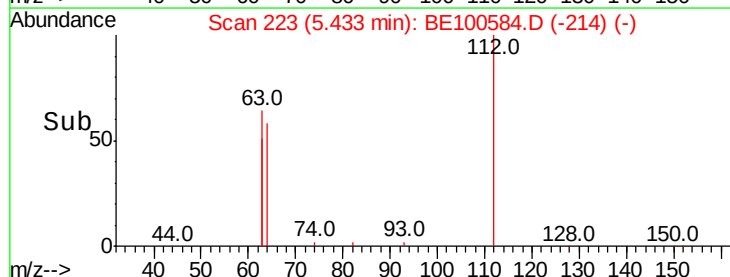
63 111.4 90.1 135.1

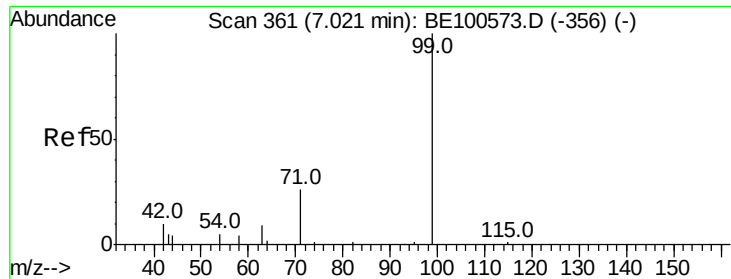


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE1

Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.354 ng

RT: 7.02 min Scan# 361

Delta R.T. 0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampled :

RR-PAH-WP

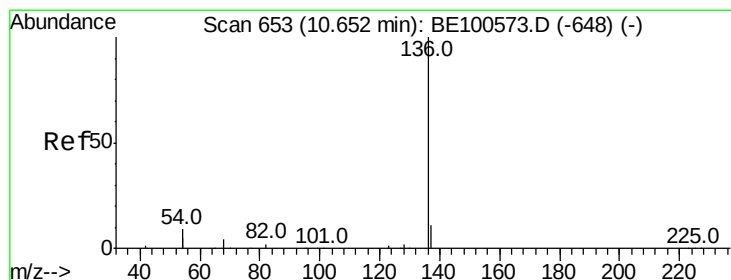
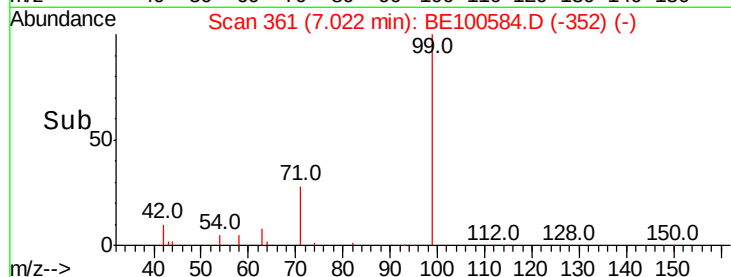
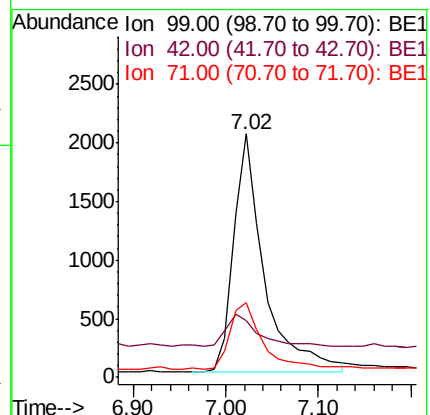
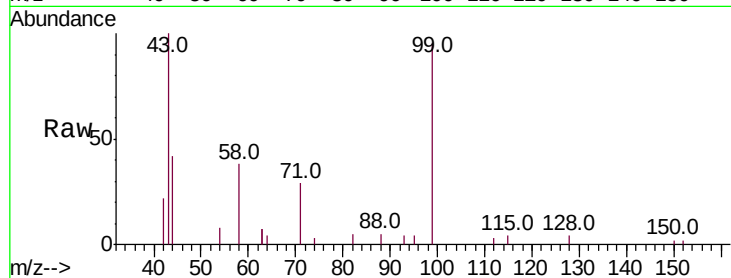
Tot Ion: 99 Resp: 4653

Ion Ratio Lower Upper

99 100

42 14.2 11.7 17.5

71 31.3 23.6 35.4



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

Delta R.T. -0.01 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Tgt Ion: 136 Resp: 14960

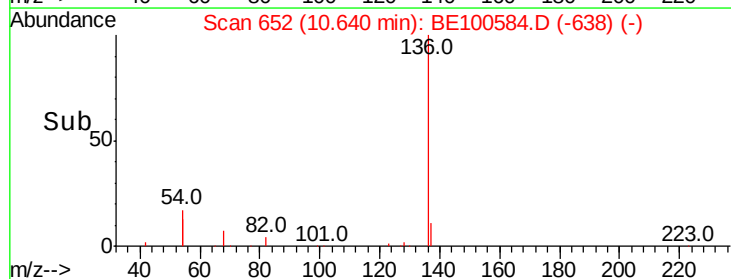
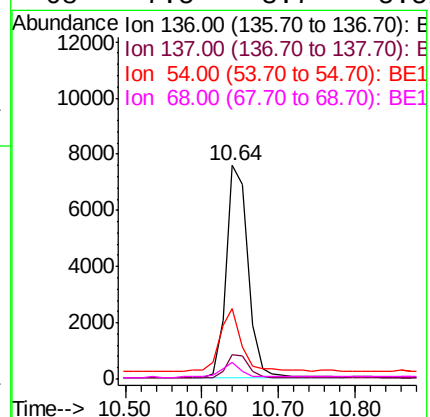
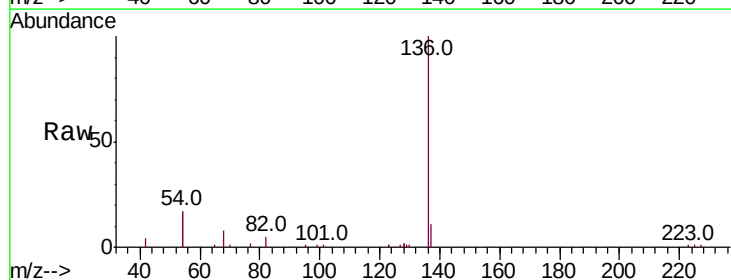
Ion Ratio Lower Upper

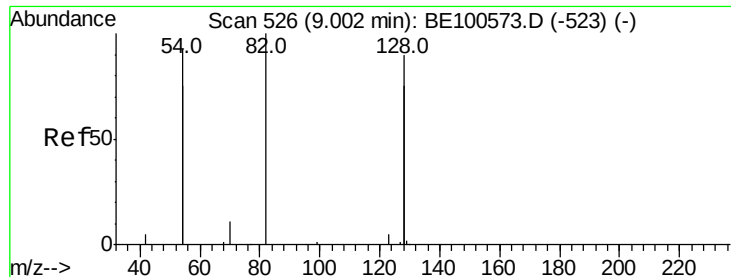
136 100

137 11.2 9.0 13.4

54 33.2 15.0 22.6#

68 7.5 3.7 5.5#





#8

Nitrobenzene-d5

Concen: 0.337 ng

RT: 9.00 min Scan# 526

Delta R.T. 0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

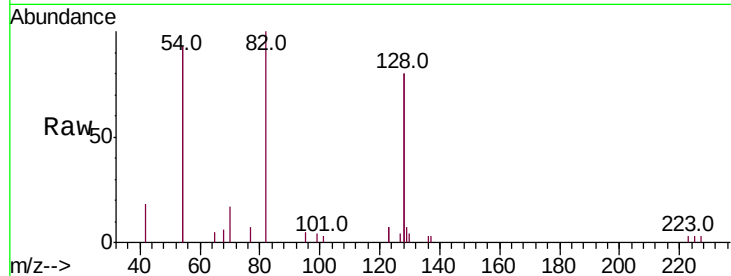
Tot Ion: 82 Resp: 3643

Ion Ratio Lower Upper

82 100

128 160.4 137.9 206.9

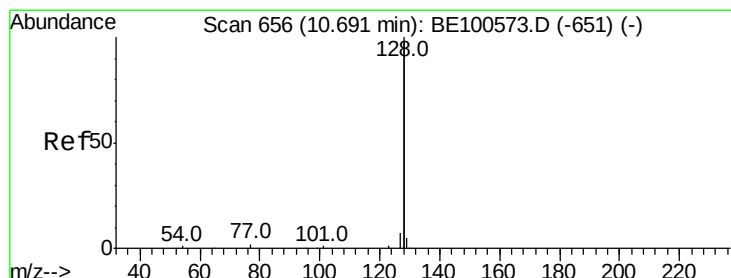
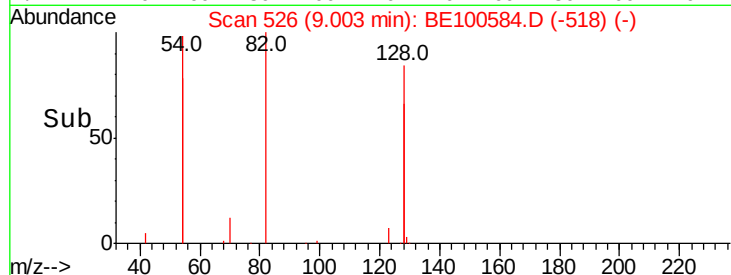
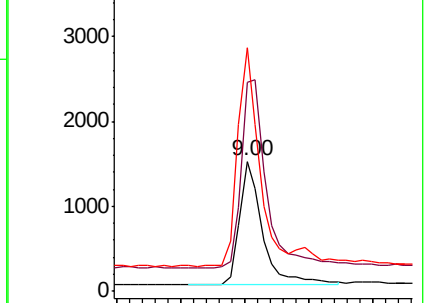
54 186.9 143.0 214.6



Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 6.724 ng

RT: 10.69 min Scan# 656

Delta R.T. 0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

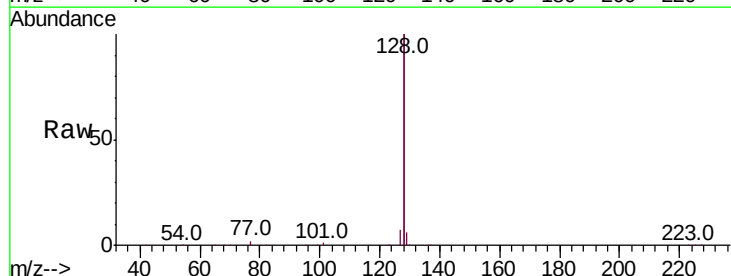
Tgt Ion: 128 Resp: 1045160

Ion Ratio Lower Upper

128 100

129 2.8 2.2 3.4

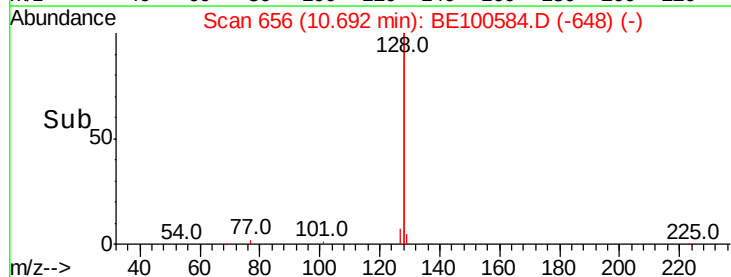
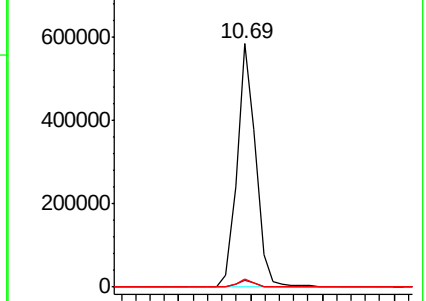
127 3.3 2.8 4.2

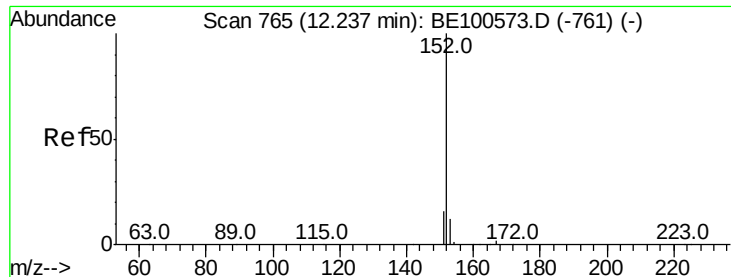


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

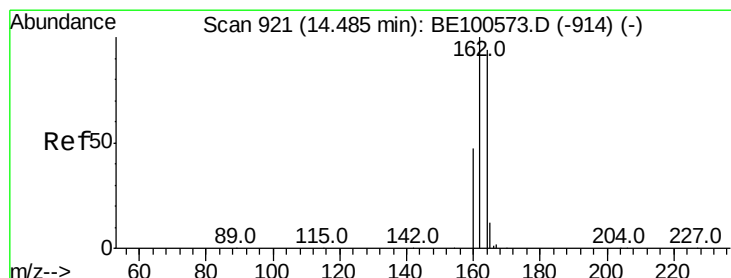
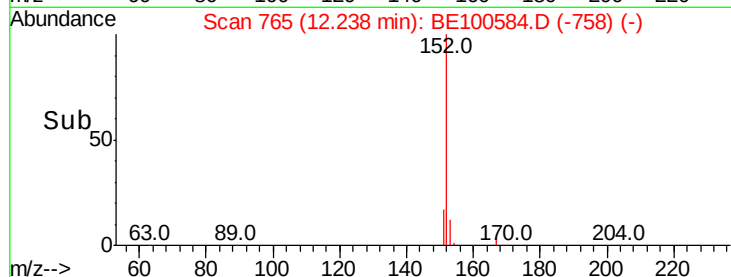
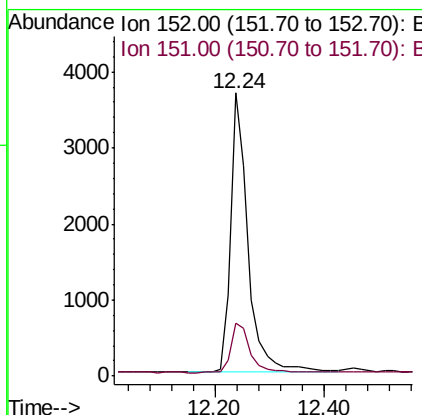
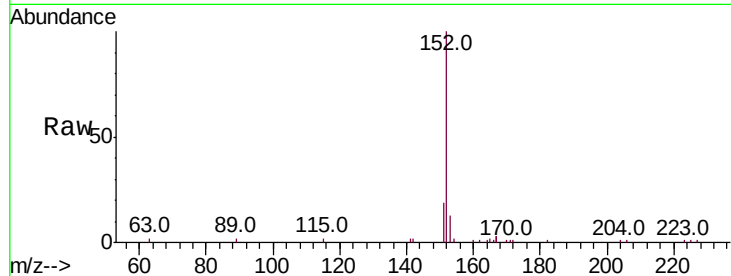




#11
 2-Methylnaphthalene-d10
 Concen: 0.351 ng
 RT: 12.24 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: BE100584.D
 Acq: 30 Sep 2019 16:46

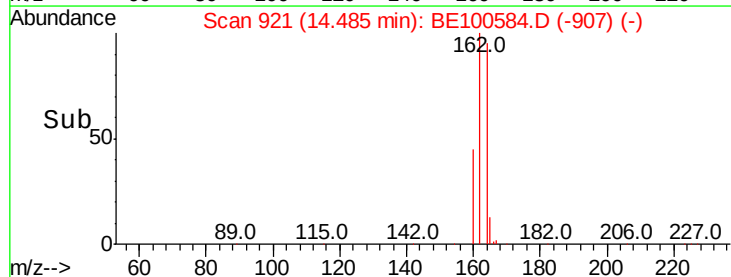
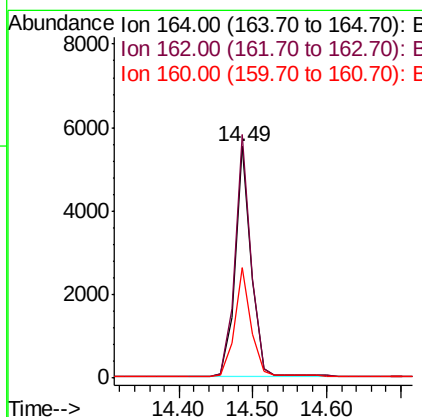
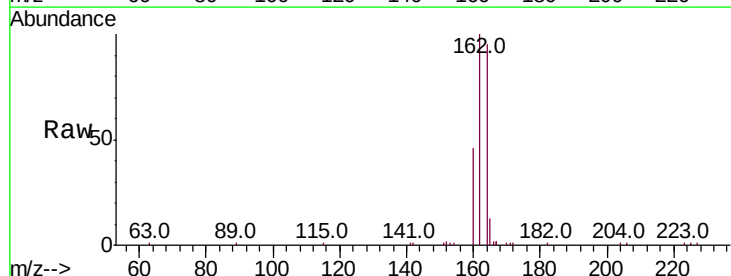
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

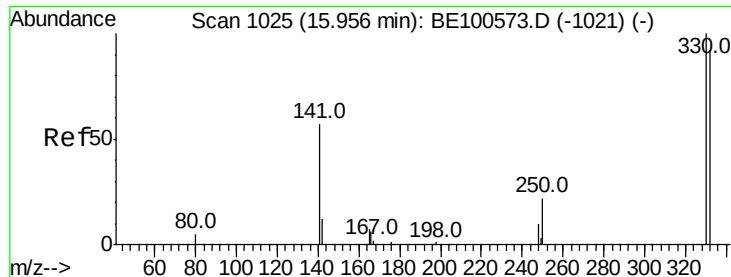
Tot Ion:152 Resp: 8195
 Ion Ratio Lower Upper
 152 100
 151 20.0 15.3 22.9



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.49 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: BE100584.D
 Acq: 30 Sep 2019 16:46

Tgt Ion:164 Resp: 8241
 Ion Ratio Lower Upper
 164 100
 162 105.1 85.0 127.4
 160 47.9 40.2 60.4

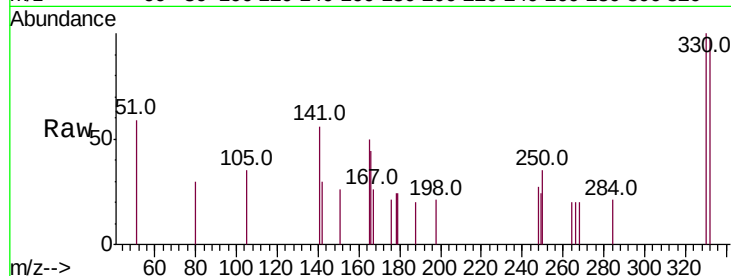




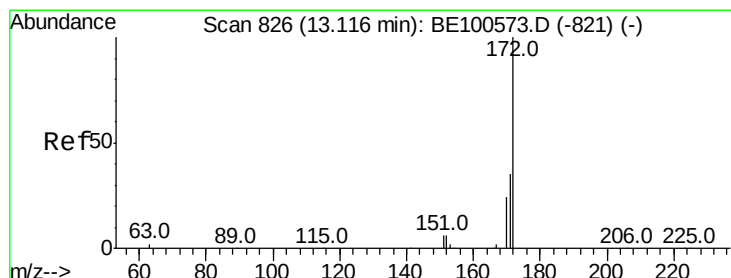
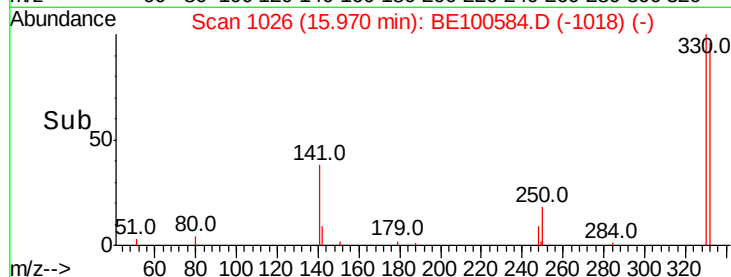
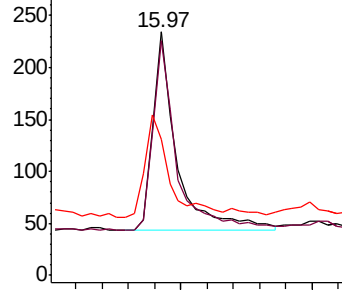
#14
 2,4,6-Tribromophenol
 Concen: 0.203 ng
 RT: 15.97 min Scan# 1026
 Delta R.T. 0.01 min
 Lab File: BE100584.D
 Acq: 30 Sep 2019 16:46

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Tot Ion:330 Resp: 480
 Ion Ratio Lower Upper
 330 100
 332 94.8 78.1 117.1
 141 52.3 42.1 63.1

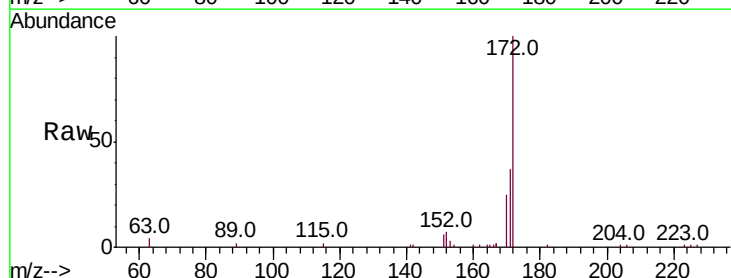


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

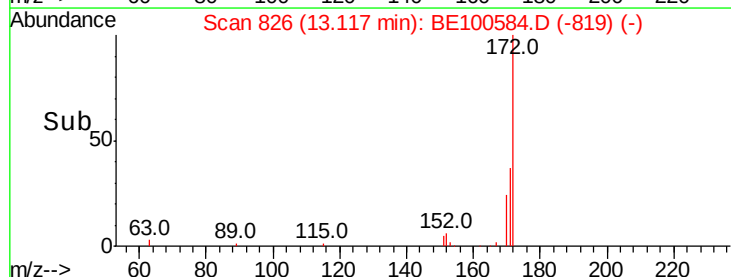
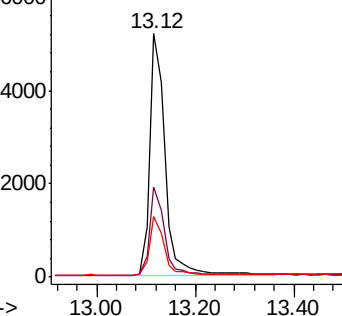


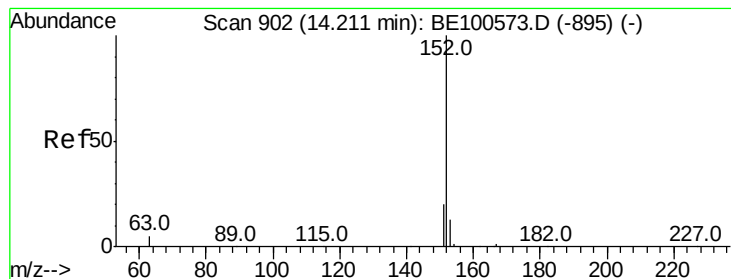
#15
 2-Fluorobiphenyl
 Concen: 0.382 ng
 RT: 13.12 min Scan# 826
 Delta R.T. 0.00 min
 Lab File: BE100584.D
 Acq: 30 Sep 2019 16:46

Tgt Ion:172 Resp: 10900
 Ion Ratio Lower Upper
 172 100
 171 37.1 28.2 42.2
 170 25.1 19.2 28.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#16

Acenaphthylene

Concen: 4.060 ng

RT: 14.21 min Scan# 902

Delta R.T. 0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

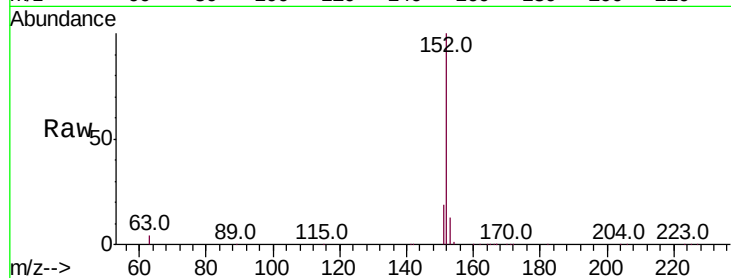
Tot Ion:152 Resp: 149072

Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

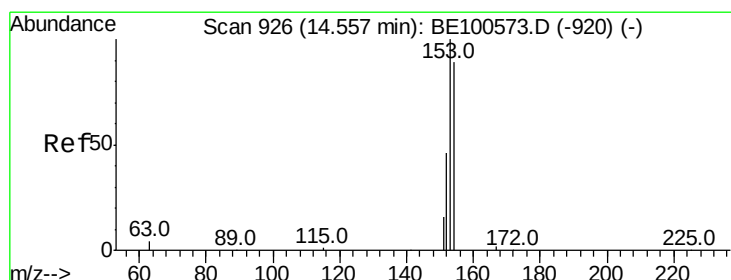
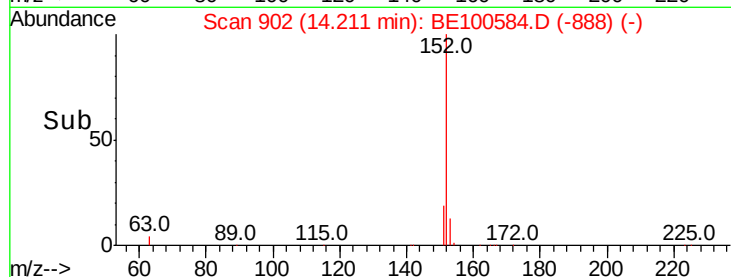
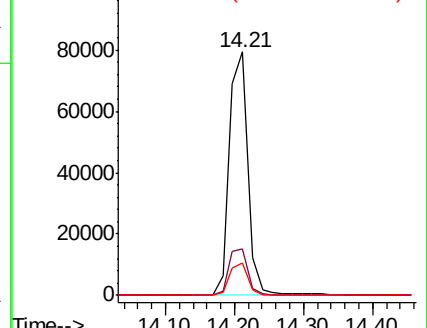
153 13.0 10.6 16.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#17

Acenaphthene

Concen: 14.490 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.01 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

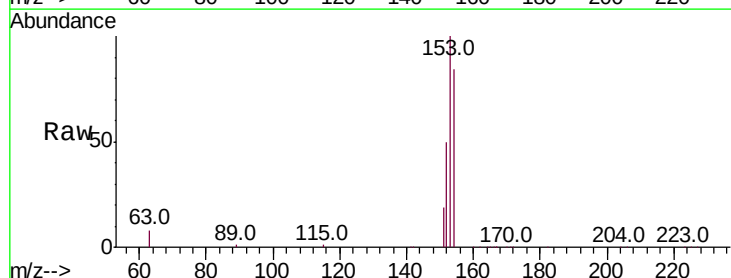
Tgt Ion:154 Resp: 341956

Ion Ratio Lower Upper

154 100

153 115.0 92.7 139.1

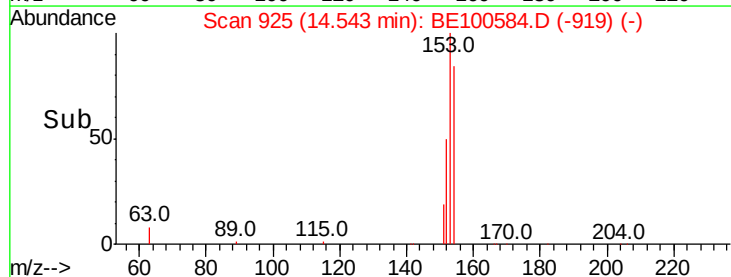
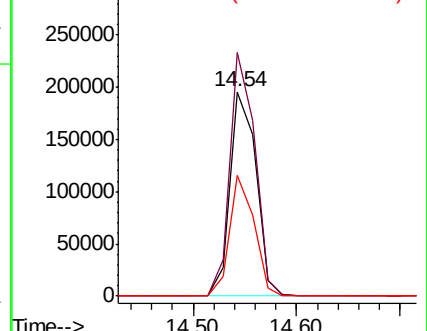
152 55.9 45.6 68.4

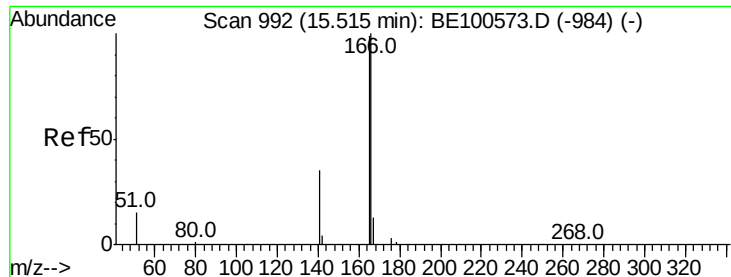


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

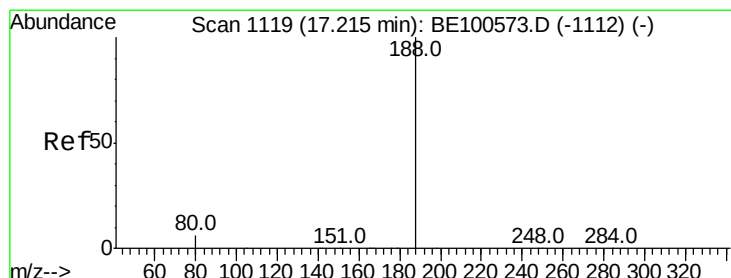
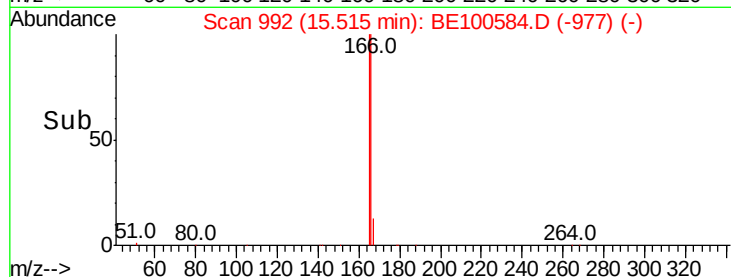
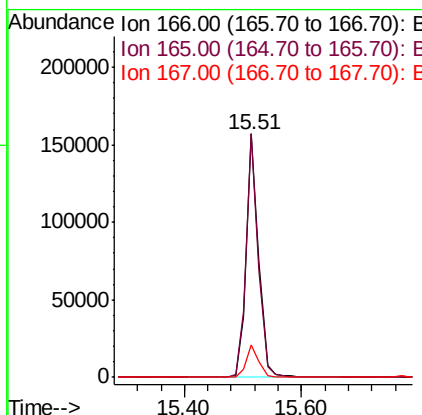
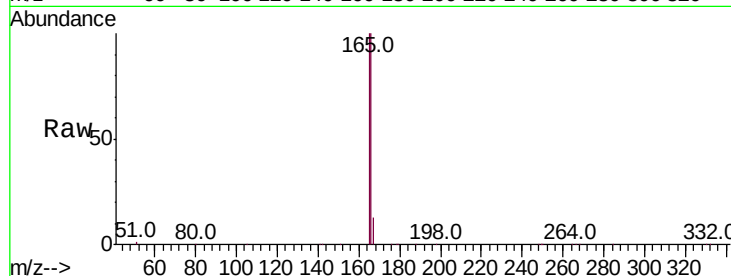




#18
 Fluorene
 Concen: 7.479 ng
 RT: 15.51 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: BE100584.D
 Acq: 30 Sep 2019 16:46

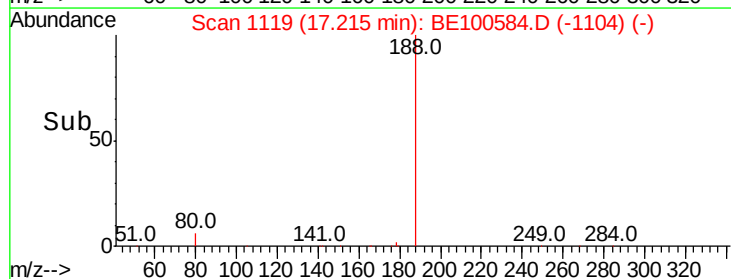
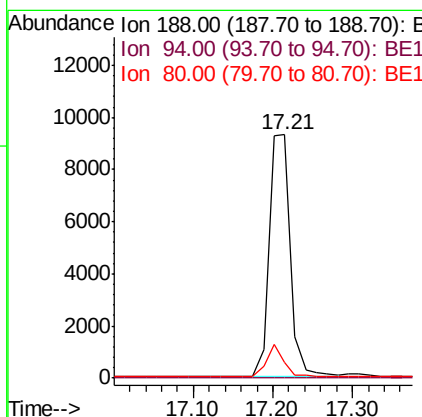
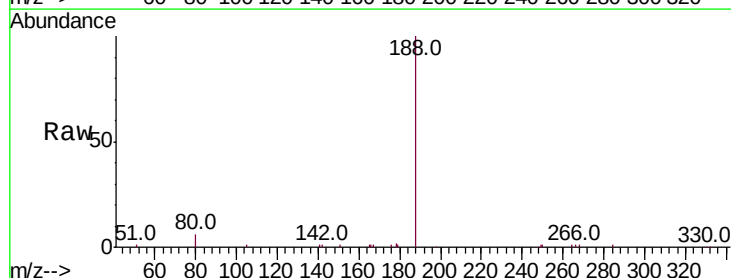
Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

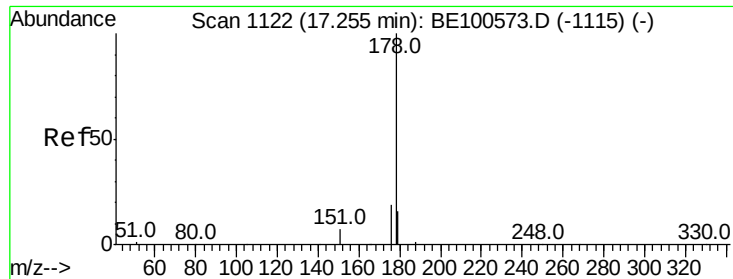
Tot Ion	Ratio	Lower	Upper
166	100		
165	99.1	78.0	117.0
167	13.3	10.7	16.1



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.21 min Scan# 1119
 Delta R.T. -0.00 min
 Lab File: BE100584.D
 Acq: 30 Sep 2019 16:46

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.3	5.6	8.4





#23

Phenanthrene

Concen: 3.674 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

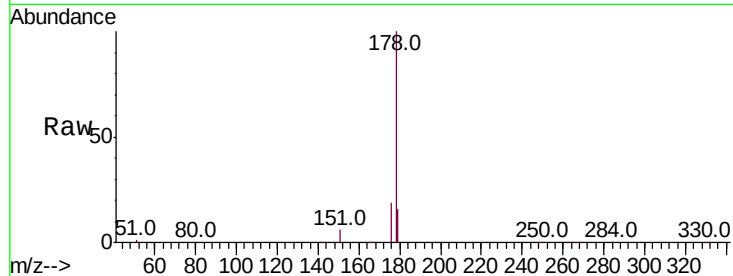
Tot Ion:178 Resp: 181747

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

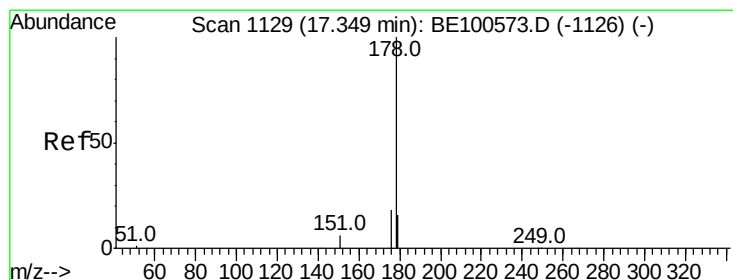
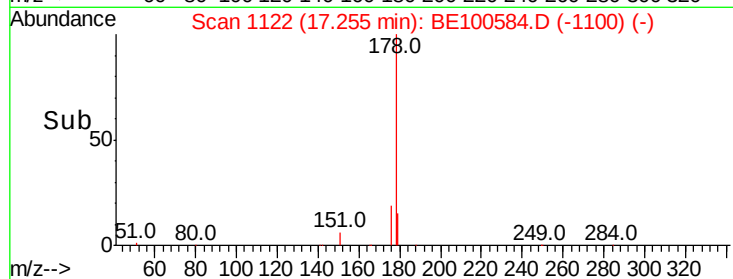
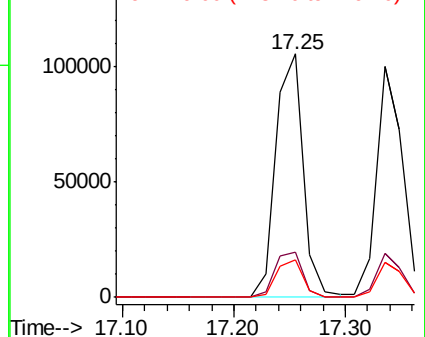
179 15.3 12.4 18.6



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



#24

Anthracene

Concen: 3.670 ng

RT: 17.34 min Scan# 1128

Delta R.T. -0.01 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

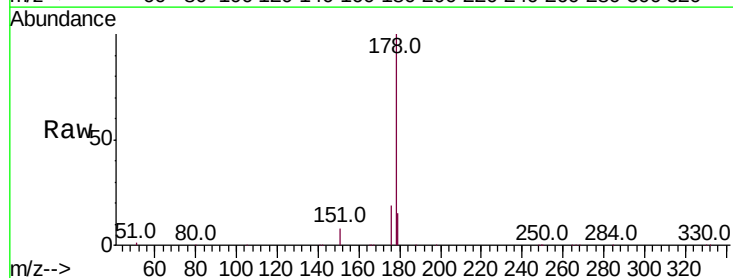
Tgt Ion:178 Resp: 164326

Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

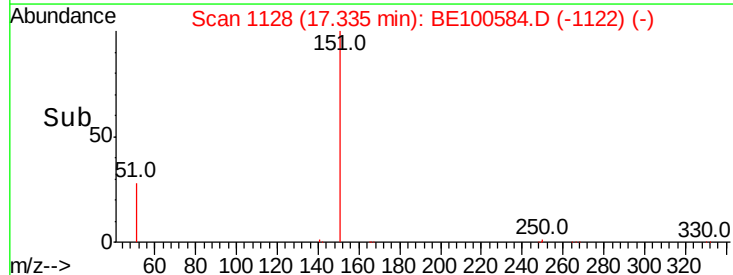
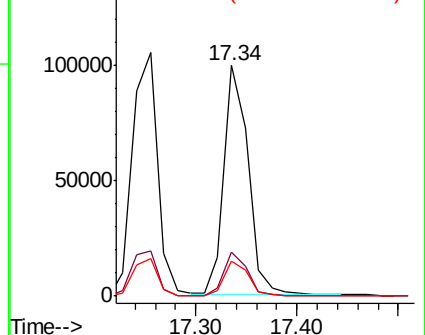
179 15.3 12.3 18.5

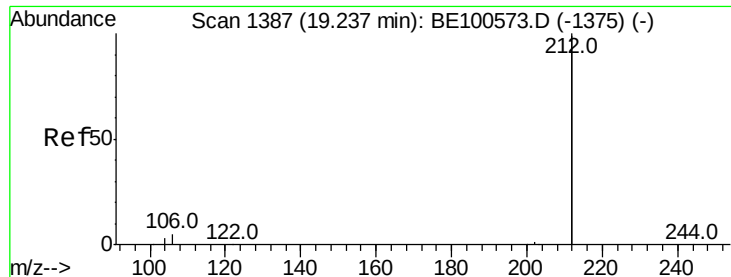


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.406 ng

RT: 19.23 min Scan# 1386

Delta R.T. -0.01 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

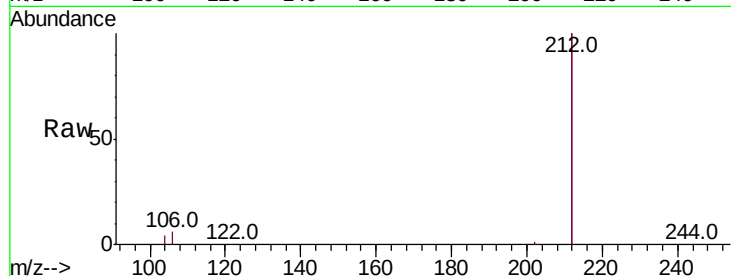
Tot Ion:212 Resp: 90509

Ion Ratio Lower Upper

212 100

106 3.1 2.5 3.7

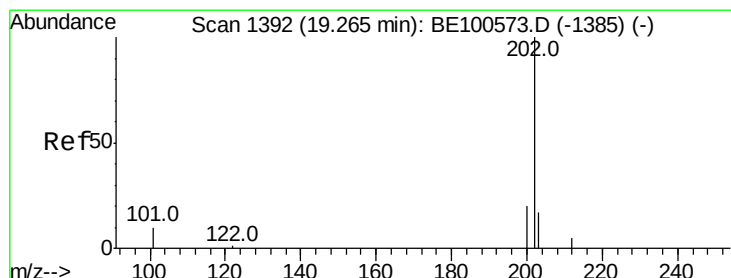
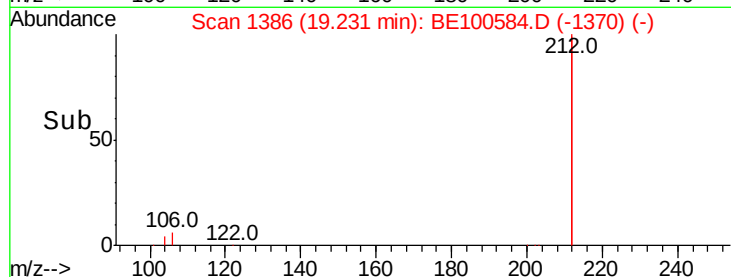
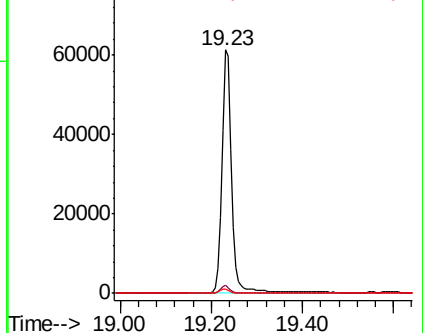
104 1.7 1.4 2.0



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: 1.714 ng

RT: 19.26 min Scan# 1391

Delta R.T. -0.01 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

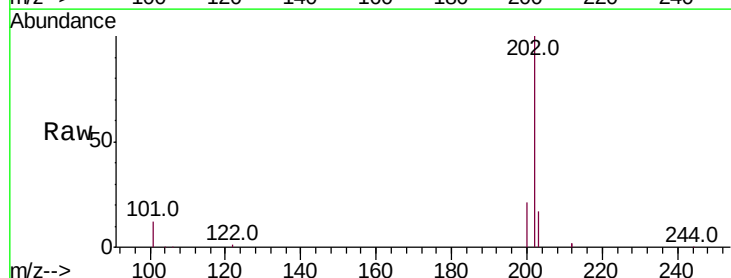
Tgt Ion:202 Resp: 106615

Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.4

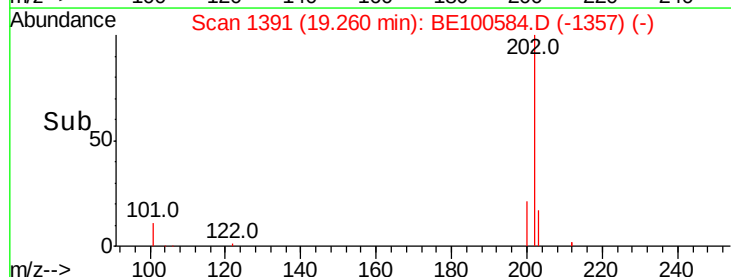
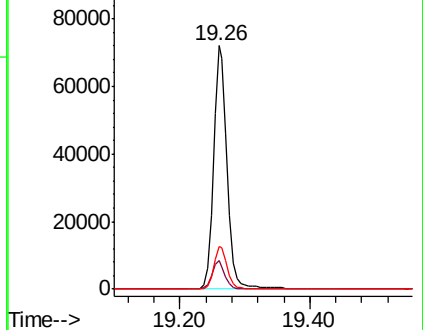
203 17.4 13.6 20.4

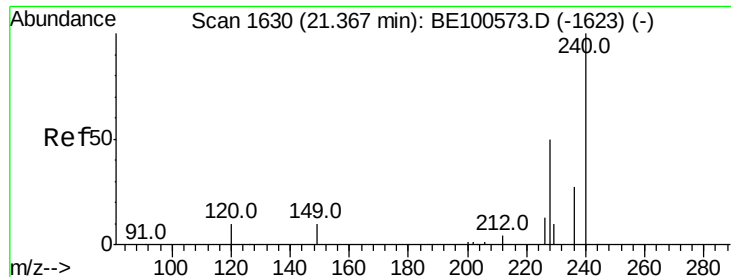


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

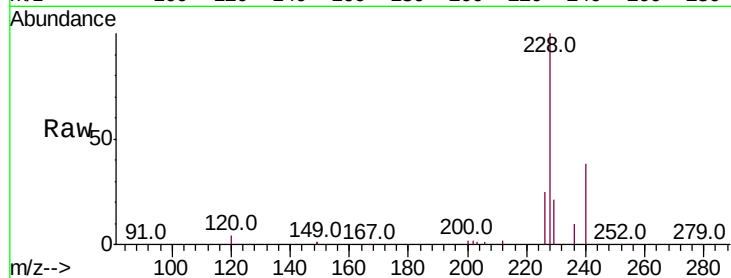
Tot Ion:240 Resp: 28746

Ion Ratio Lower Upper

240 100

120 9.8 8.7 13.1

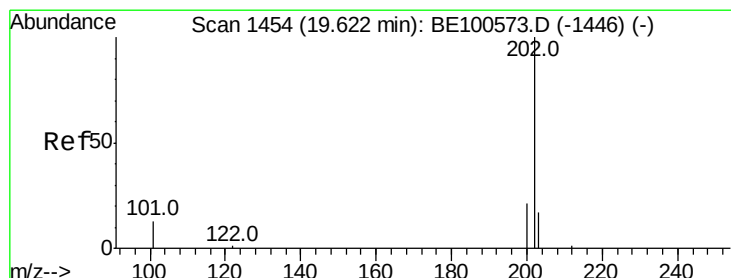
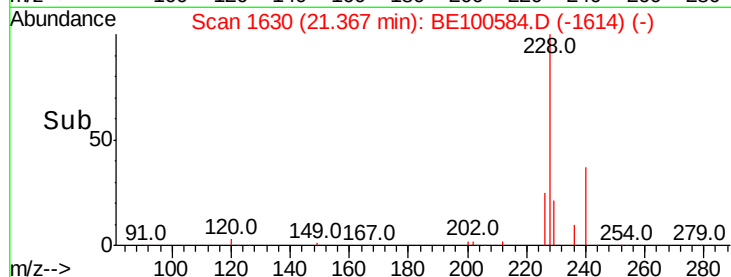
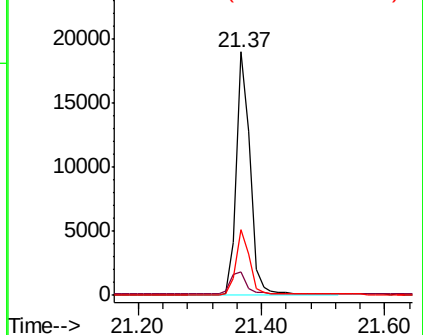
236 27.2 21.8 32.8



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: 0.992 ng

RT: 19.62 min Scan# 1454

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

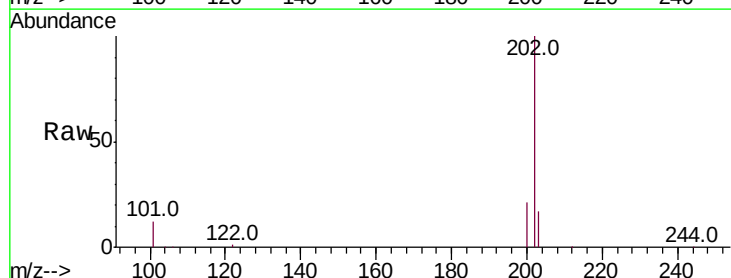
Tgt Ion:202 Resp: 86377

Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

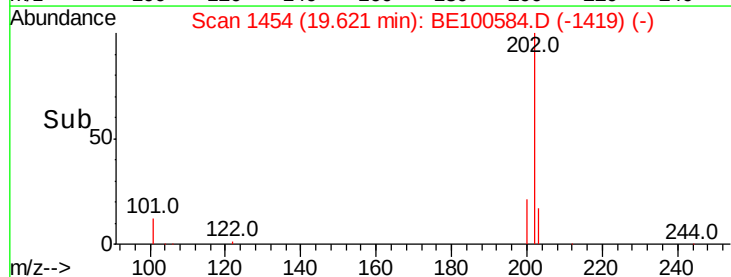
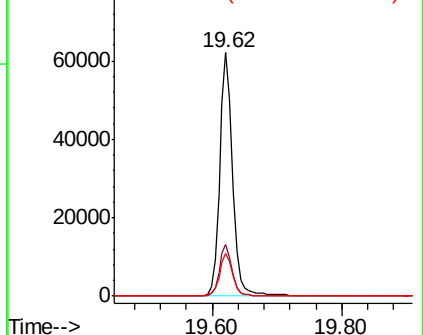
203 18.1 14.2 21.2

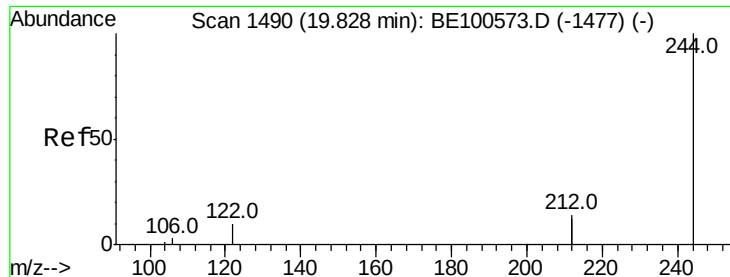


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.312 ng

RT: 19.83 min Scan# 1490

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

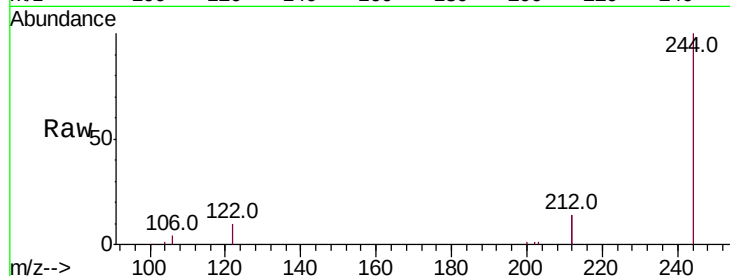
Tot Ion:244 Resp: 22162

Ion Ratio Lower Upper

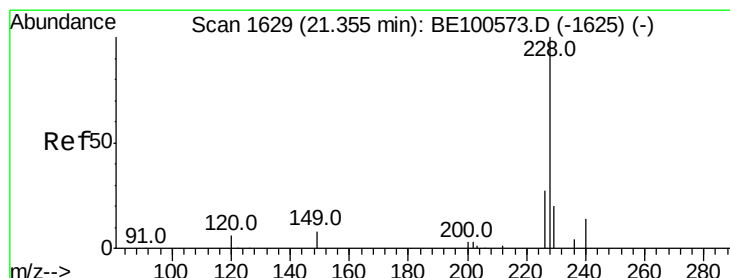
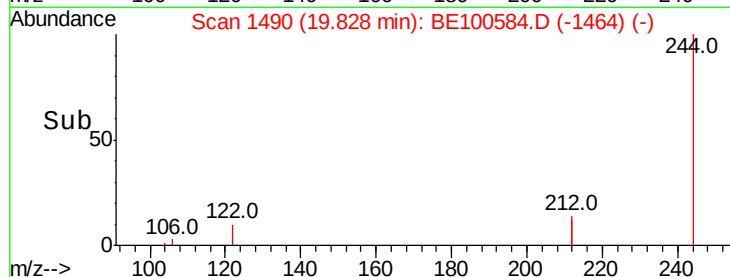
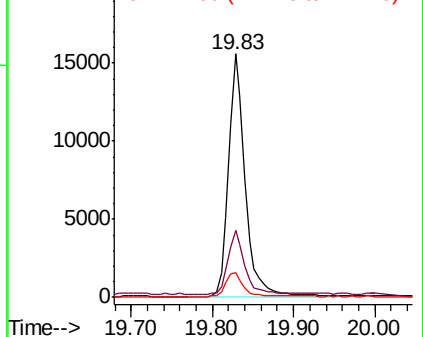
244 100

212 27.5 21.8 32.8

122 10.1 8.2 12.4



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: 2.537 ng

RT: 21.35 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

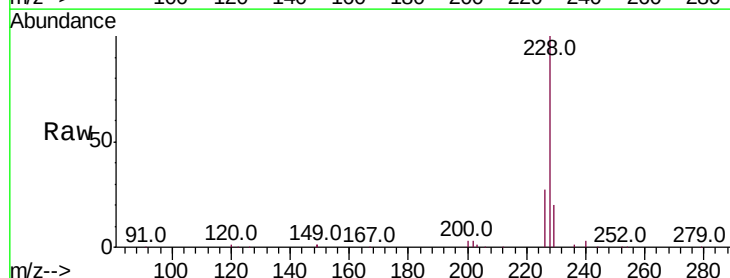
Tgt Ion:228 Resp: 214854

Ion Ratio Lower Upper

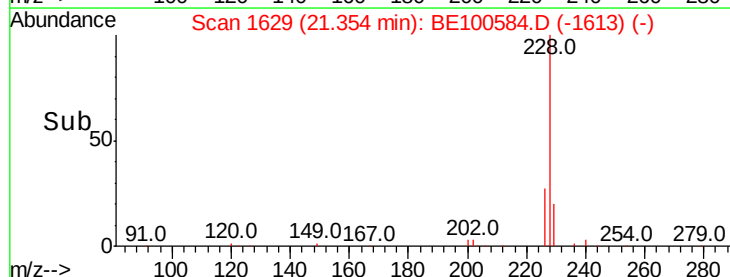
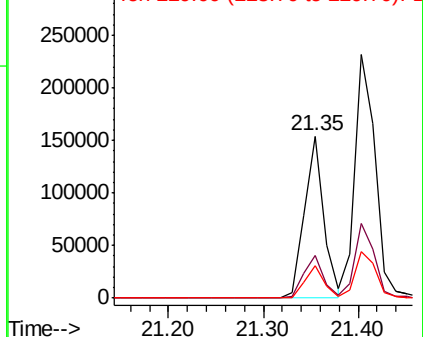
228 100

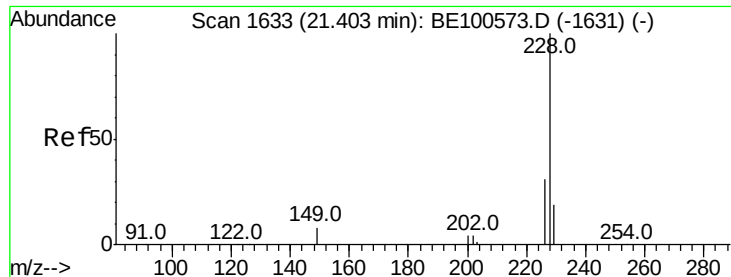
226 26.6 21.7 32.5

229 20.0 16.1 24.1



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: 3.941 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

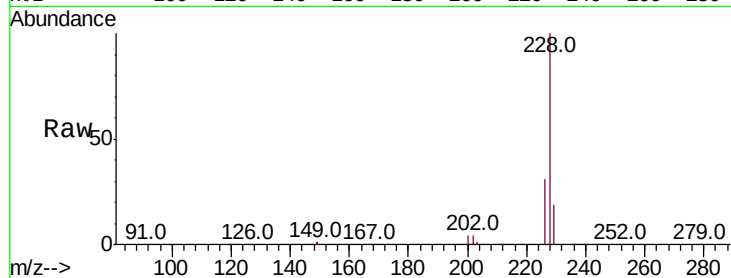
Tot Ion:228 Resp: 340245

Ion Ratio Lower Upper

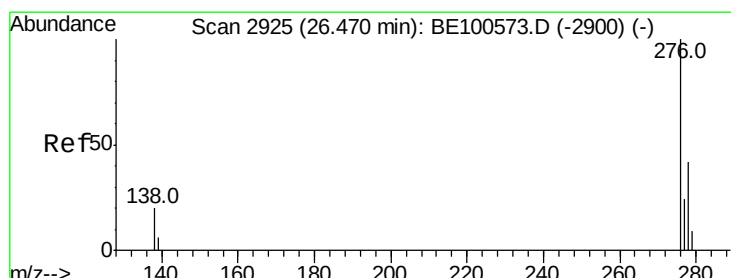
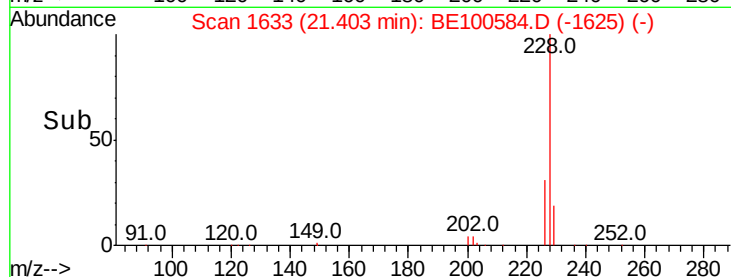
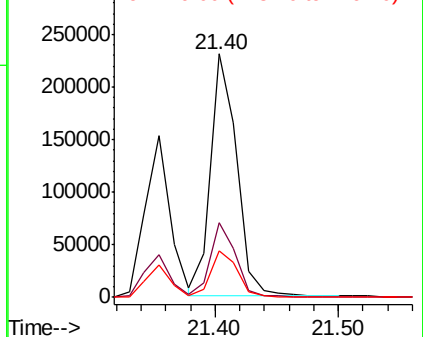
228 100

226 30.8 24.4 36.6

229 19.1 15.6 23.4



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: 3.822 ng

RT: 26.47 min Scan# 2924

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

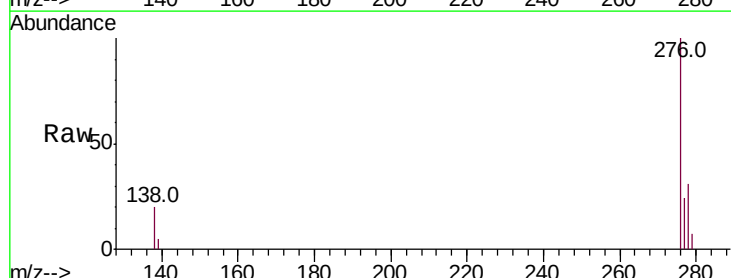
Tgt Ion:276 Resp: 406832

Ion Ratio Lower Upper

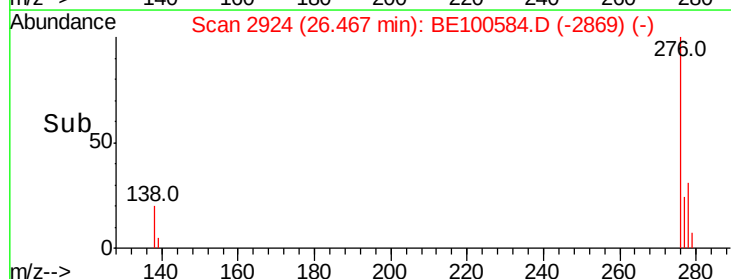
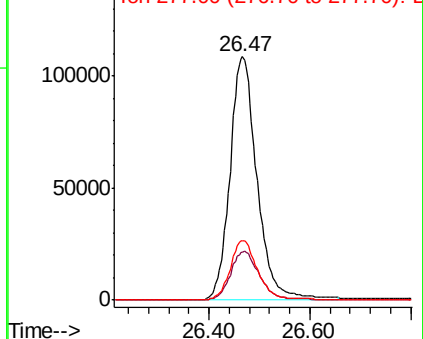
276 100

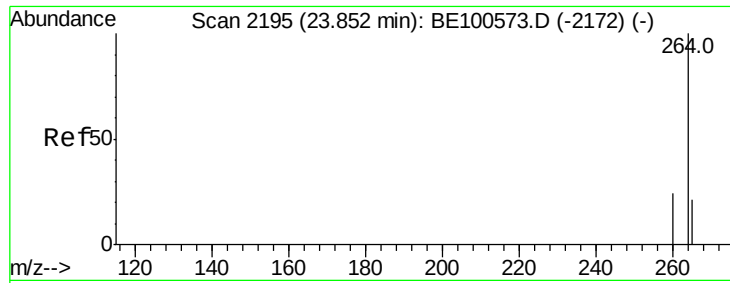
138 21.3 18.6 27.8

277 24.7 19.4 29.2



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



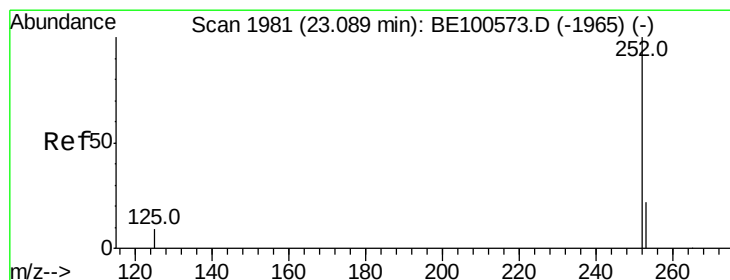
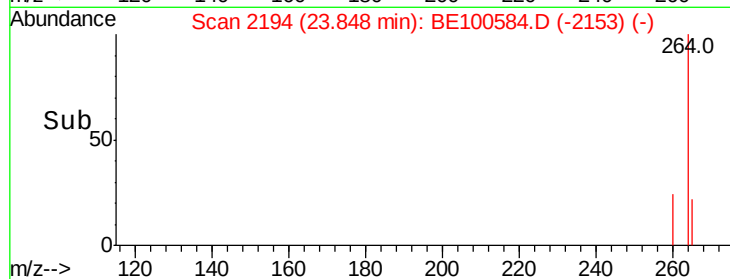
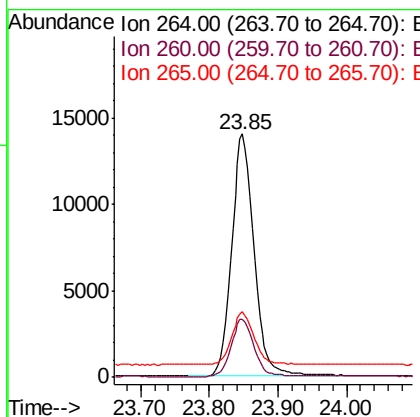
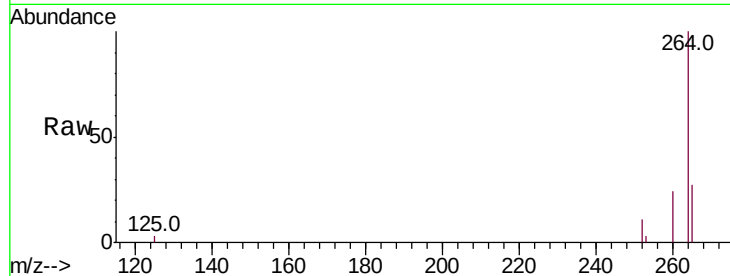


#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.85 min Scan# 2194
Delta R.T. -0.00 min
Lab File: BE100584.D
Acq: 30 Sep 2019 16:46

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion:264 Resp: 31889

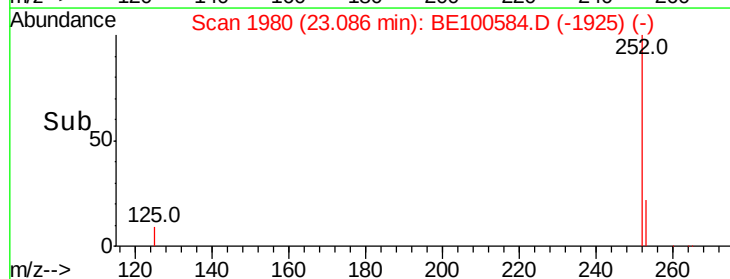
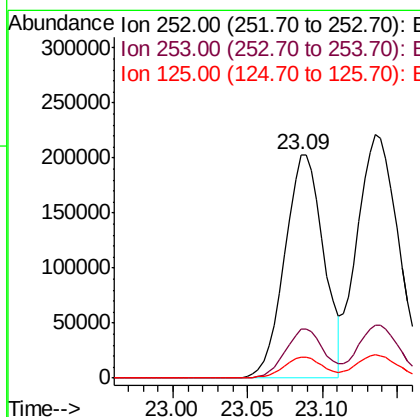
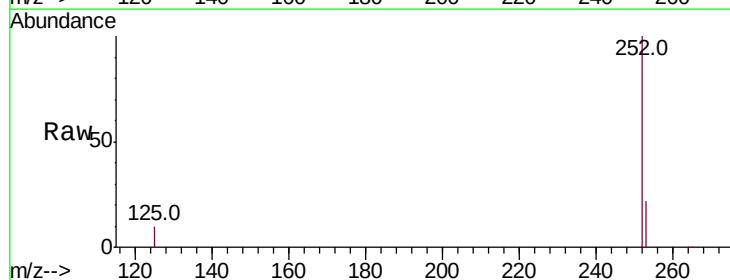
Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.7	29.5
265	26.8	22.2	33.4

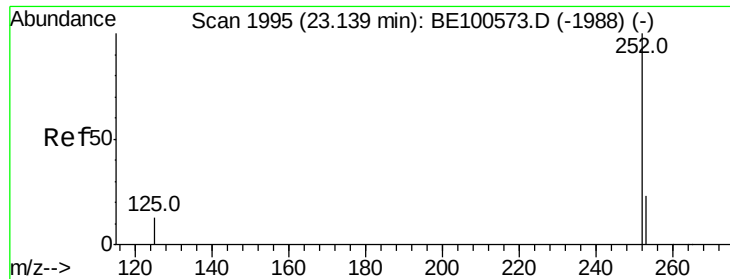


#35
Benzo(b)fluoranthene
Concen: 4.217 ng
RT: 23.09 min Scan# 1980
Delta R.T. -0.00 min
Lab File: BE100584.D
Acq: 30 Sep 2019 16:46

Tgt Ion:252 Resp: 367767

Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.2	27.2
125	9.6	8.7	13.1

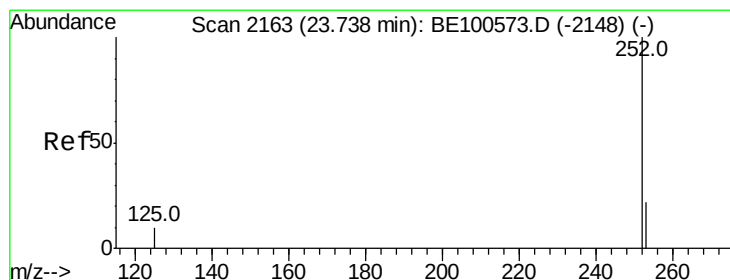
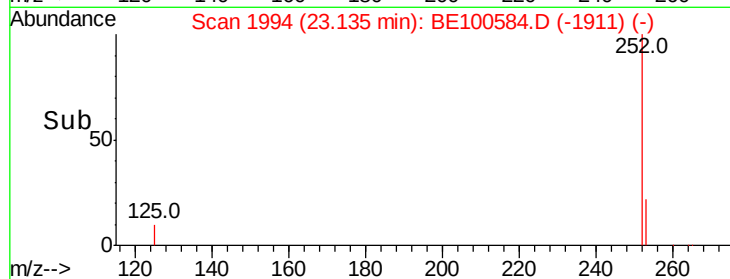
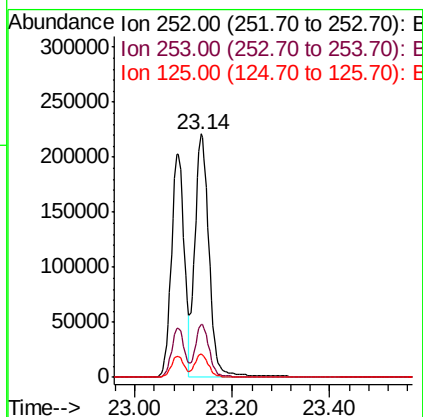
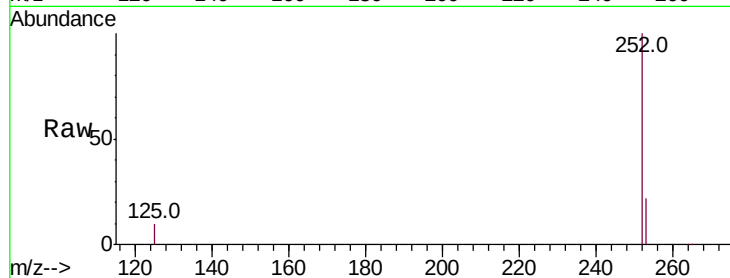




#36
Benzo(k)fluoranthene
Concen: 4.671 ng
RT: 23.14 min Scan# 1994
Delta R.T. -0.00 min
Lab File: BE100584.D
Acq: 30 Sep 2019 16:46

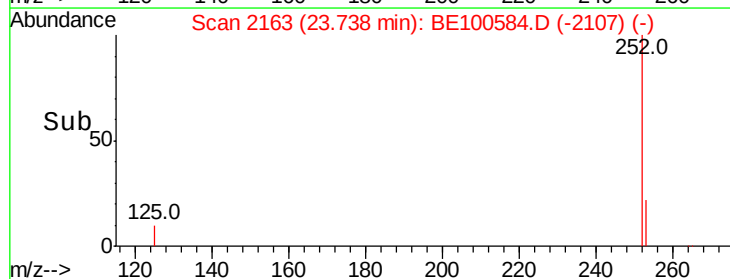
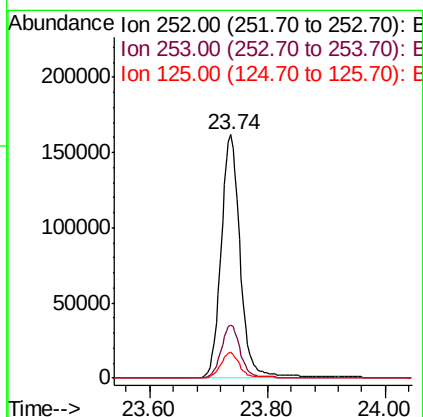
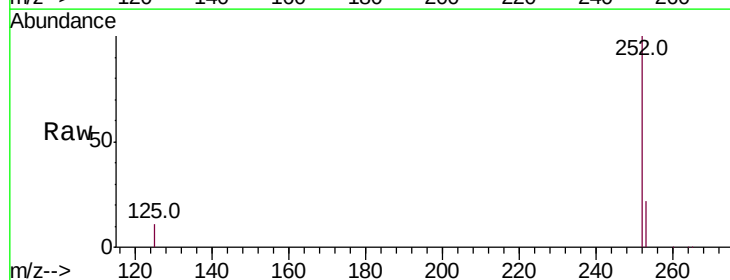
Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

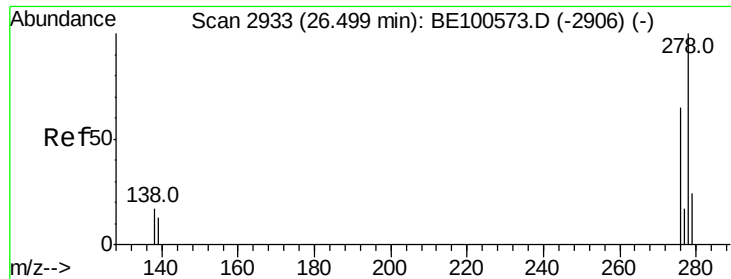
Tot Ion:252 Resp: 444166
Ion Ratio Lower Upper
252 100
253 21.9 18.6 28.0
125 9.7 11.4 17.2#



#37
Benzo(a)pyrene
Concen: 4.341 ng
RT: 23.74 min Scan# 2163
Delta R.T. -0.00 min
Lab File: BE100584.D
Acq: 30 Sep 2019 16:46

Tgt Ion:252 Resp: 361798
Ion Ratio Lower Upper
252 100
253 21.9 18.2 27.4
125 10.5 9.8 14.6





#38

Dibenzo(a,h)anthracene

Concen: 2.942 ng

RT: 26.49 min Scan# 2930

Delta R.T. -0.01 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

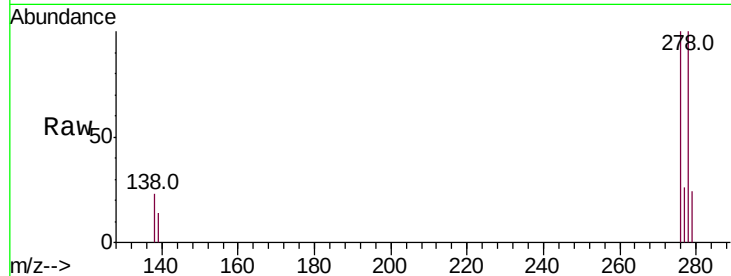
Tot Ion:278 Resp: 249775

Ion Ratio Lower Upper

278 100

139 14.1 11.7 17.5

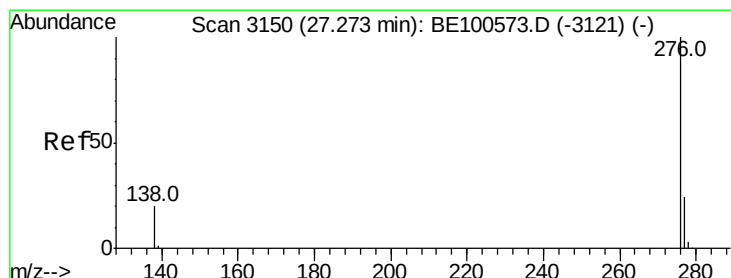
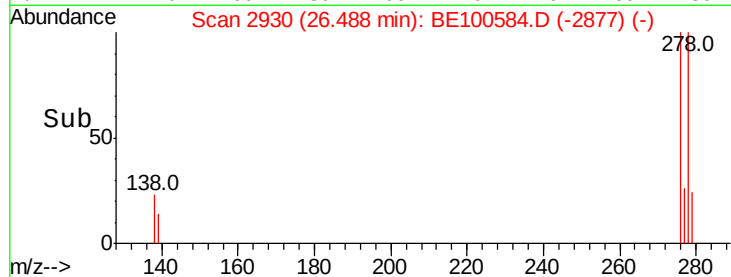
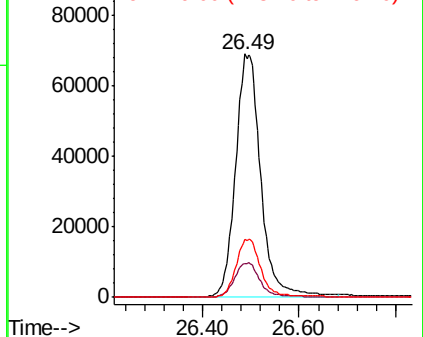
279 23.8 19.9 29.9



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(g,h,i)perylene

Concen: 0.553 ng

RT: 27.27 min Scan# 3149

Delta R.T. -0.00 min

Lab File: BE100584.D

Acq: 30 Sep 2019 16:46

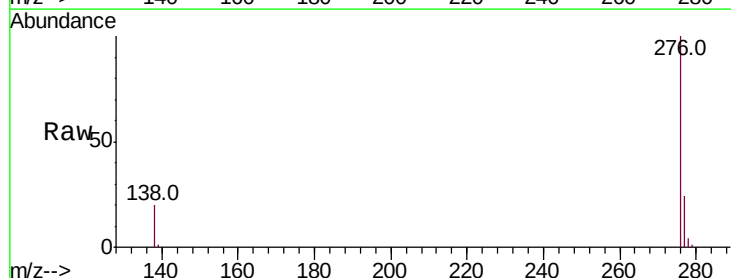
Tgt Ion:276 Resp: 47955

Ion Ratio Lower Upper

276 100

277 24.1 19.7 29.5

138 19.9 17.0 25.4



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

