

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032719\
 Data File : BF113337.D
 Acq On : 27 Mar 2019 18:13
 Operator : JU/SJ
 Sample : K2086-07
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-18

Quant Time: Mar 28 04:08:40 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF032519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 26 03:32:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	177602	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	664738	20.00	ng	0.00
39) Acenaphthene-d10	9.73	164	316064	20.00	ng	0.00
64) Phenanthrene-d10	11.21	188	574770	20.00	ng	0.00
76) Chrysene-d12	13.84	240	391621	20.00	ng	0.00
87) Perylene-d12	15.24	264	411392	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	1093377	100.66	ng	0.00
7) Phenol-d6	6.35	99	1423615	103.61	ng	0.00
23) Nitrobenzene-d5	7.26	82	880063	78.58	ng	0.00
42) 2,4,6-Tribromophenol	10.52	330	376722	96.49	ng	0.00
45) 2-Fluorobiphenyl	9.06	172	1573024	76.18	ng	0.00
79) Terphenyl-d14	12.79	244	1379492	77.64	ng	0.00

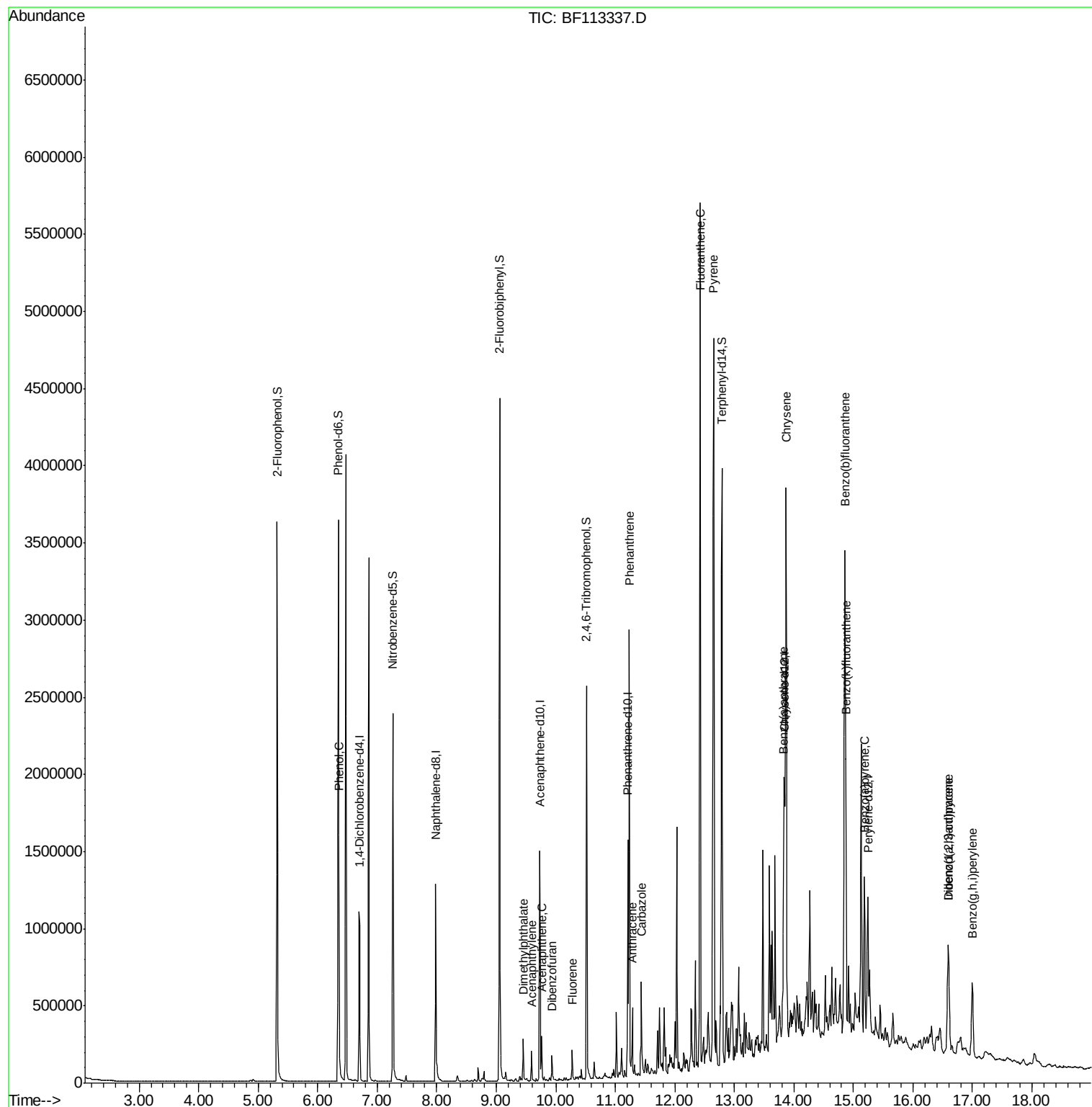
Target Compounds				Qvalue		
10) Phenol	6.36	94	32996	2.103	ng	# 71
49) Acenaphthylene	9.59	152	85430	2.600	ng	98
50) Dimethylphthalate	9.45	163	114118	4.872	ng	100
52) Acenaphthene	9.76	154	55237	2.985	ng	99
55) Dibenzofuran	9.94	168	76868	2.763	ng	95
58) Fluorene	10.27	166	61950	2.866	ng	99
71) Phenanthrene	11.23	178	1118497	39.186	ng	100
72) Anthracene	11.29	178	172226	5.940	ng	98
73) Carbazole	11.44	167	247556	8.948	ng	99
75) Fluoranthene	12.43	202	2903391	89.979	ng	97
78) Pyrene	12.65	202	2381653	87.761	ng	98
81) Benzo(a)anthracene	13.83	228	487455	21.745	ng	94
83) Chrysene	13.87	228	1666078	73.171	ng	98
86) Indeno(1,2,3-cd)pyrene	16.59	276	445492	22.797	ng	96
88) Benzo(b)fluoranthene	14.86	252	1827173m	71.498	ng	
89) Benzo(k)fluoranthene	14.87	252	606472m	27.023	ng	
90) Benzo(a)pyrene	15.19	252	438245	19.343	ng	97
91) Dibenzo(a,h)anthracene	16.60	278	108387	5.533	ng	# 80
92) Benzo(a,h,i)perylene	17.00	276	369340	18.699	ng	98

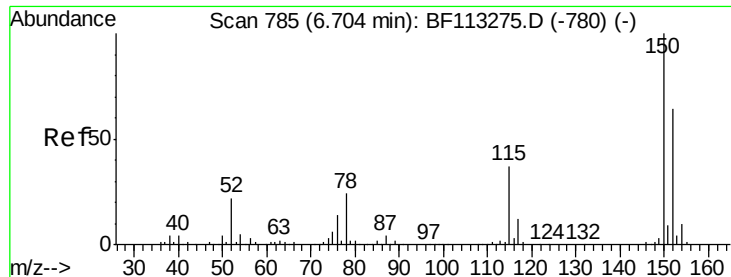
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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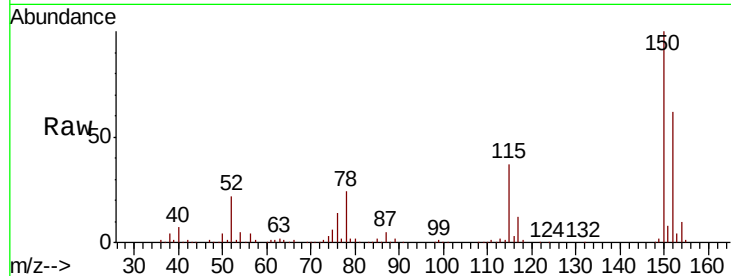


#1

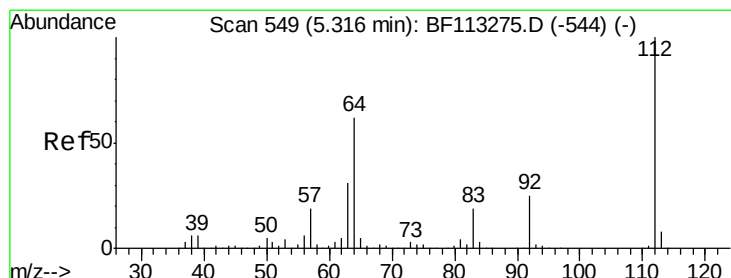
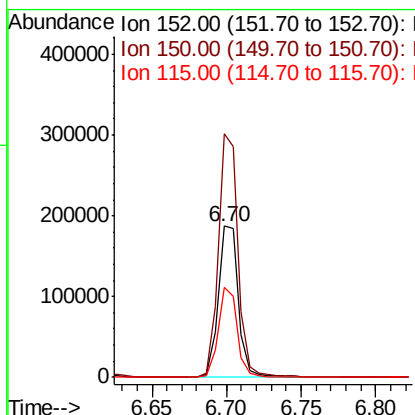
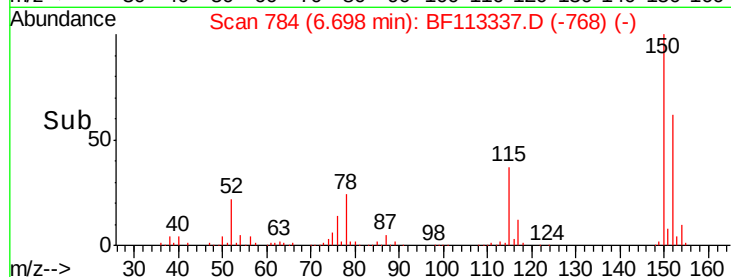
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Instrument :
BNA_F
ClientSampleId :
CS-18

Tot Ion:152 Resp: 177602
Ion Ratio Lower Upper
152 100
150 161.1 124.7 187.1
115 59.8 46.0 69.0



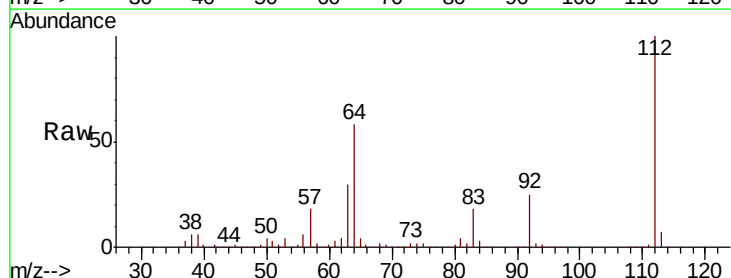
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



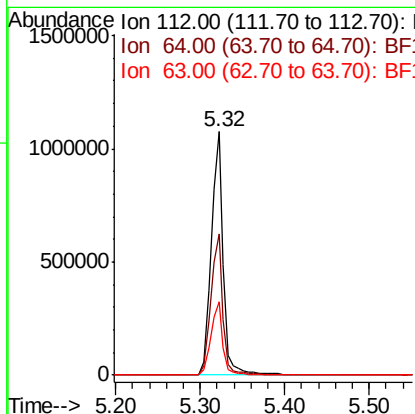
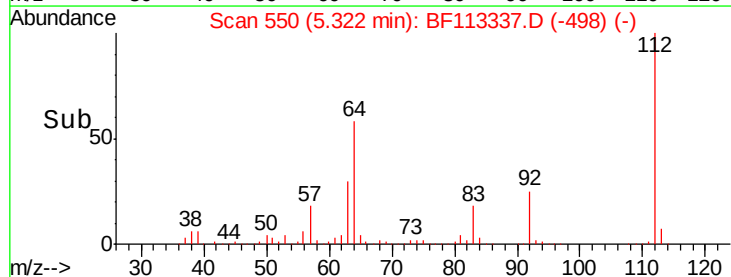
#5

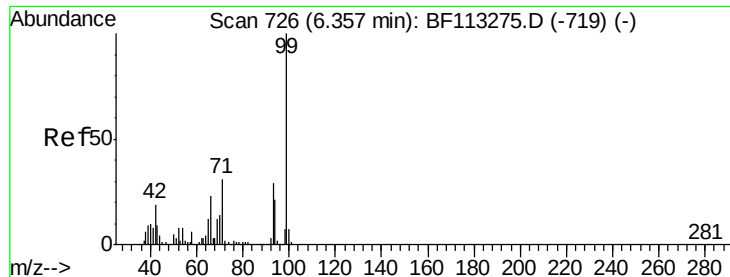
2-Fluorophenol
Concen: 100.663 ng
RT: 5.32 min Scan# 550
Delta R.T. 0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Tgt Ion:112 Resp: 1093377
Ion Ratio Lower Upper
112 100
64 57.9 49.2 73.8
63 29.9 24.9 37.3



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 103.606 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampleId :

CS-18

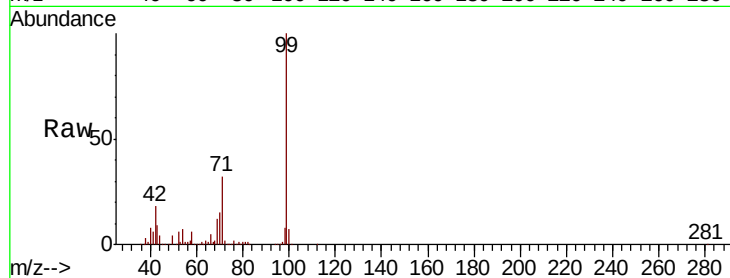
Tot Ion: 99 Resp: 1423615

Ion Ratio Lower Upper

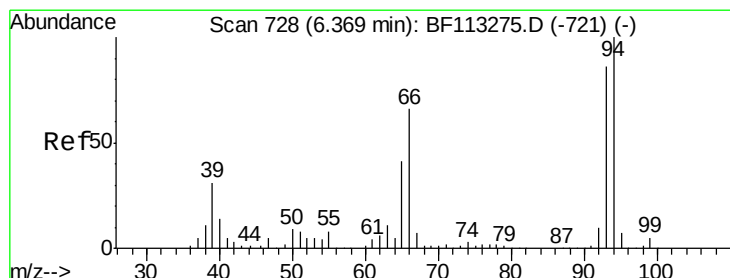
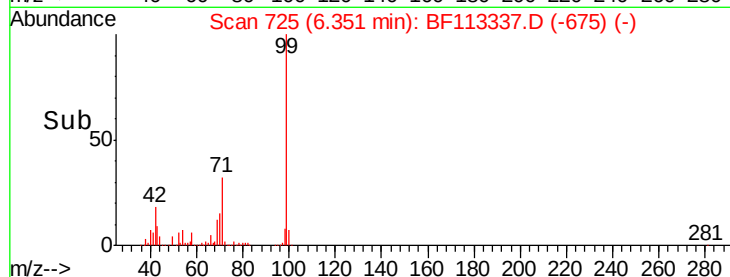
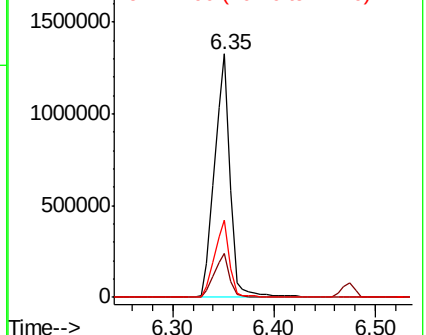
99 100

42 17.8 14.8 22.2

71 31.8 24.9 37.3



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.103 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

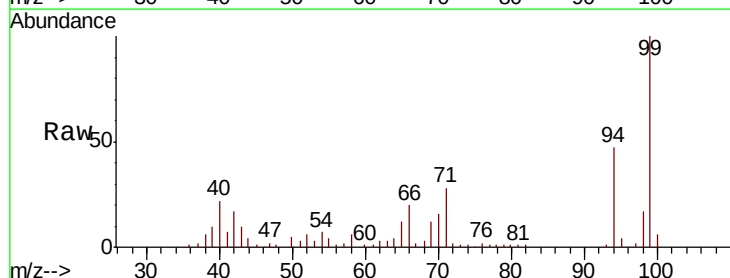
Tgt Ion: 94 Resp: 32996

Ion Ratio Lower Upper

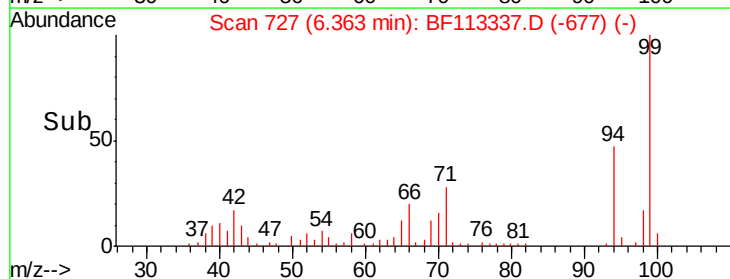
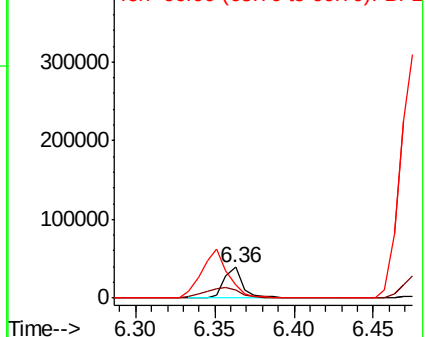
94 100

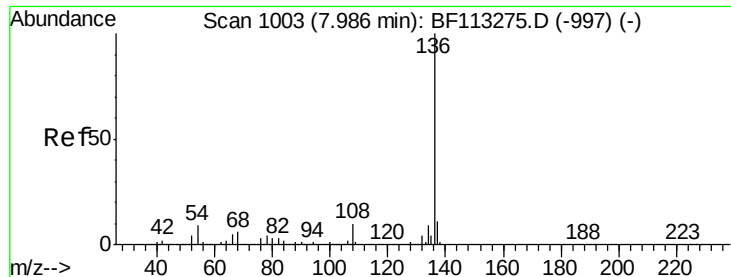
65 25.4 21.4 61.4

66 41.1 46.4 86.4#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

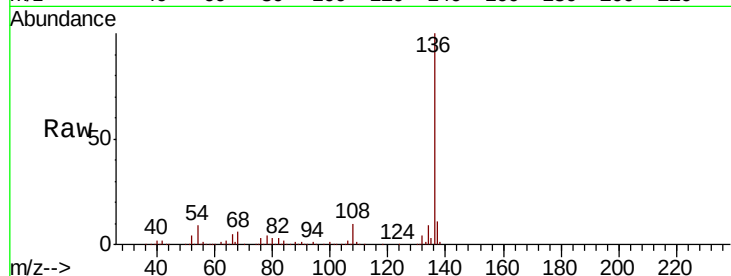




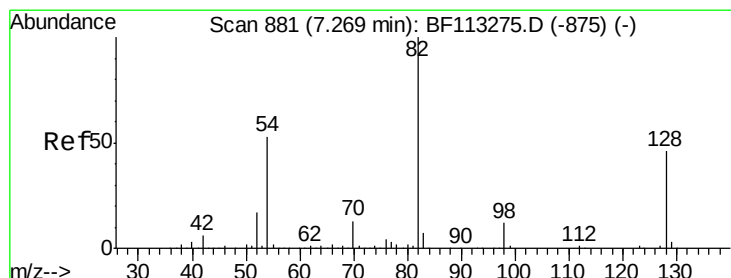
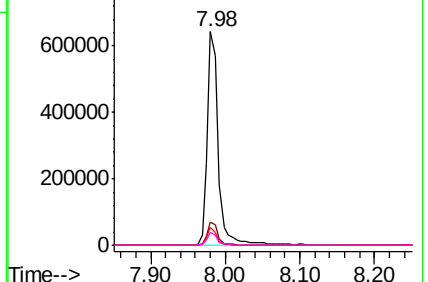
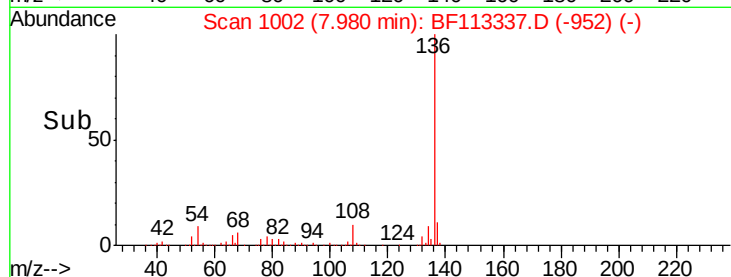
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.98 min Scan# 1002
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Instrument :
BNA_F
ClientSampleId :
CS-18

Tot Ion:136	Resp:	664738
Ion	Ratio	Lower Upper
136	100	
137	11.0	8.9 13.3
54	8.7	7.0 10.6
68	6.2	4.8 7.2

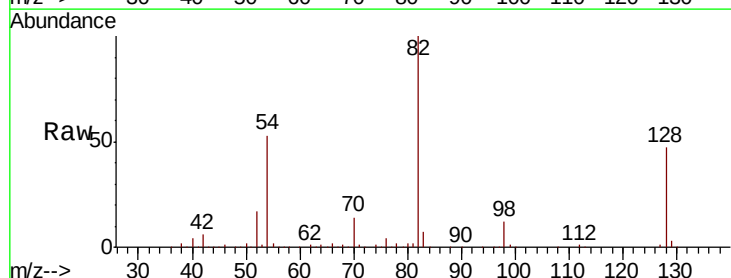


Abundance Ion 136.00 (135.70 to 136.70): E
1000000 Ion 137.00 (136.70 to 137.70): E
800000 Ion 54.00 (53.70 to 54.70): BF1
600000 Ion 68.00 (67.70 to 68.70): BF1
400000
200000
0

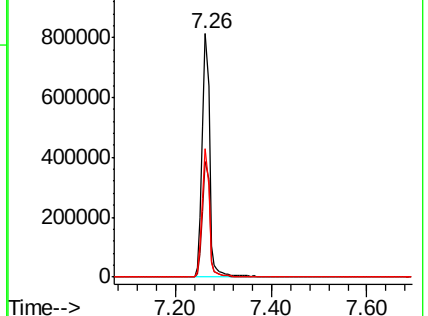
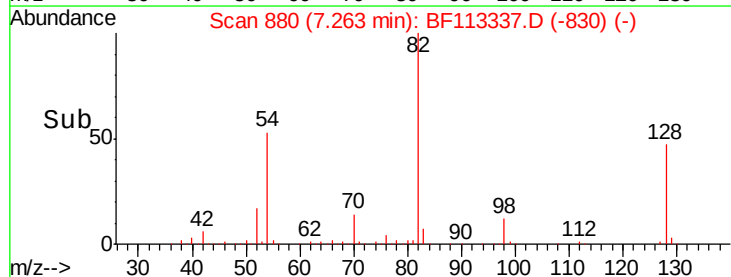


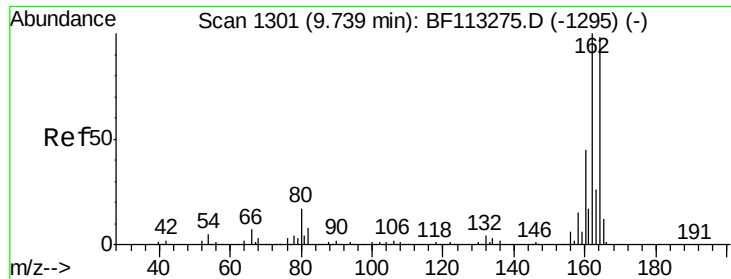
#23
Nitrobenzene-d5
Concen: 78.580 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Tgt Ion: 82	Resp:	880063
Ion	Ratio	Lower Upper
82	100	
128	47.3	36.5 54.7
54	52.6	42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF1
1000000 Ion 128.00 (127.70 to 128.70): E
800000 Ion 54.00 (53.70 to 54.70): BF1
600000
400000
200000
0

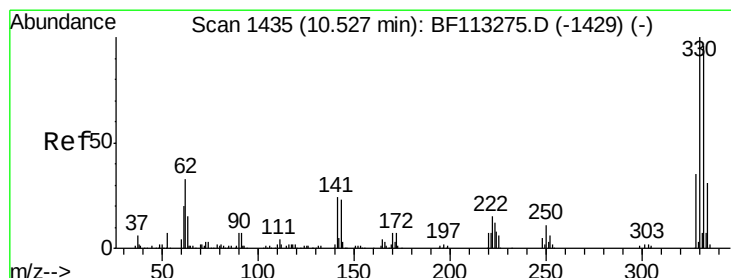
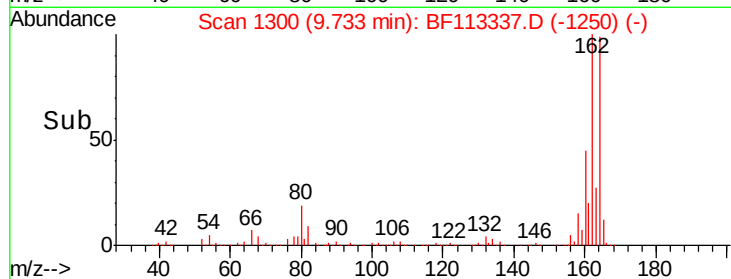
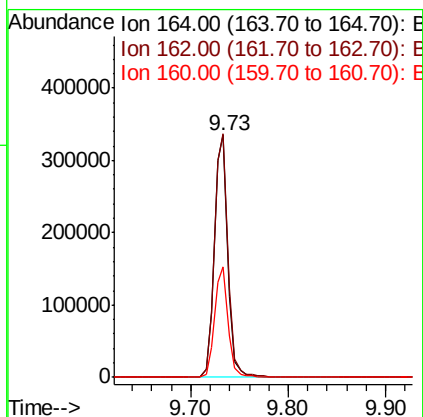
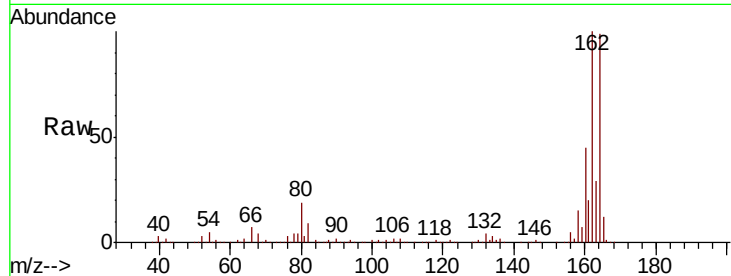




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

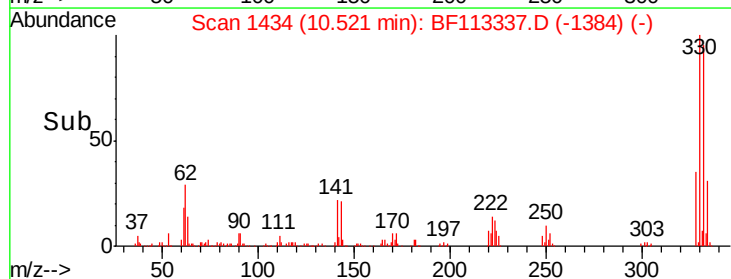
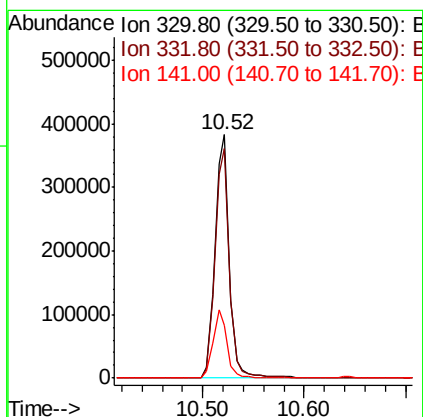
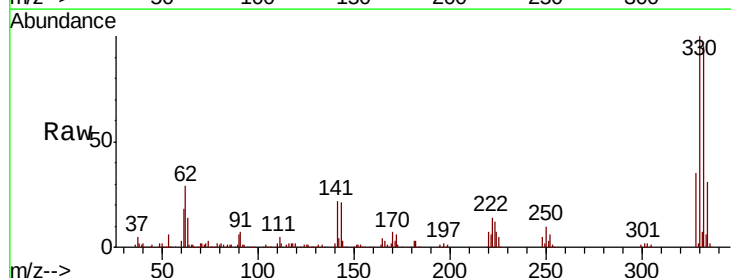
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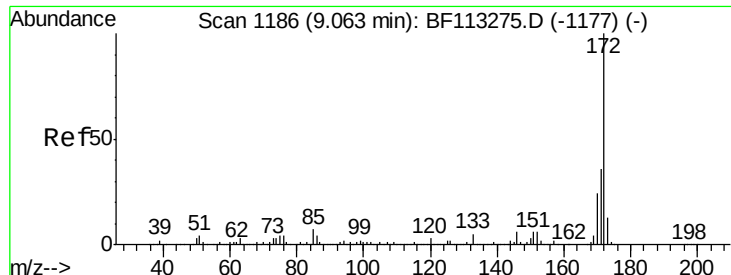
Tot Ion	Ratio	Lower	Upper
164	100		
162	100.5	81.8	122.6
160	45.5	36.4	54.6



#42
2,4,6-Tribromophenol
Concen: 96.494 ng
RT: 10.52 min Scan# 1434
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.8	116.6
141	27.7	22.7	34.1

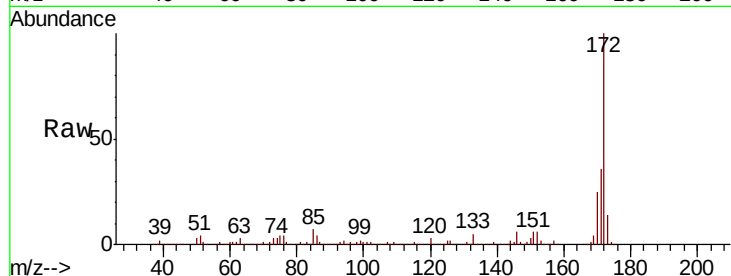




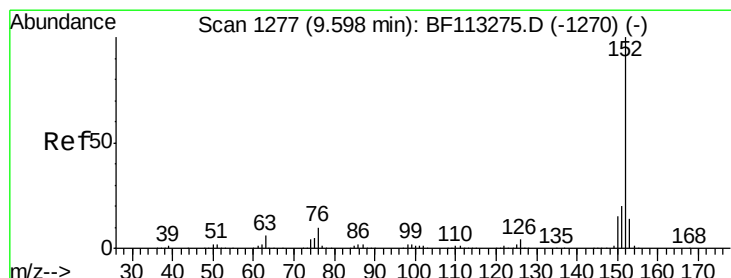
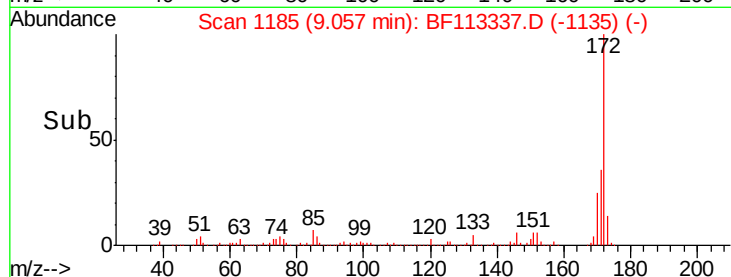
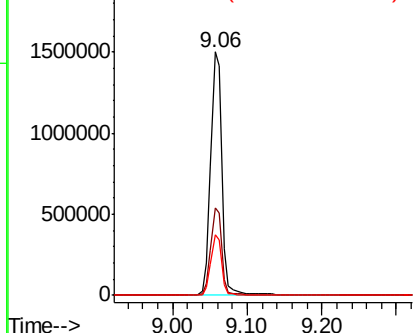
#45
2-Fluorobiphenyl
Concen: 76.175 ng
RT: 9.06 min Scan# 1185
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Instrument :
BNA_F
ClientSampleId :
CS-18

Tot Ion:172 Resp: 1573024
Ion Ratio Lower Upper
172 100
171 36.1 29.0 43.6
170 24.7 19.5 29.3

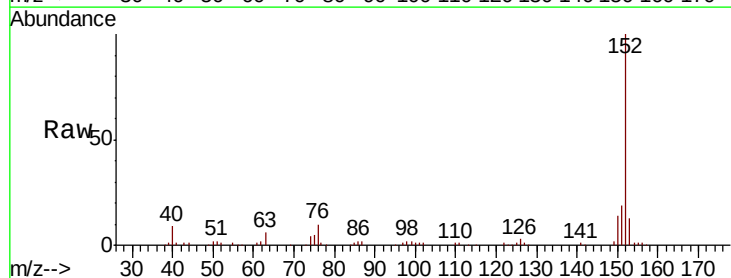


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

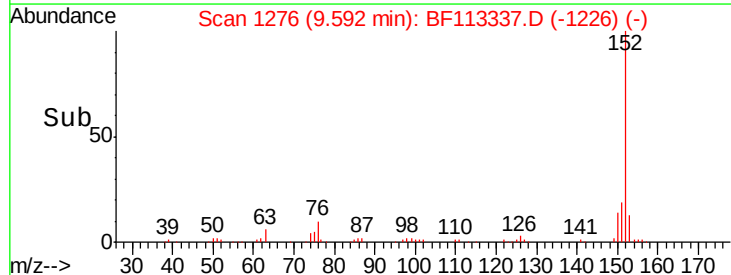
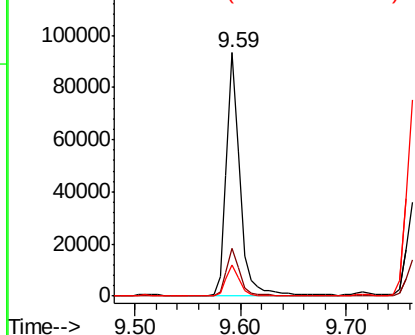


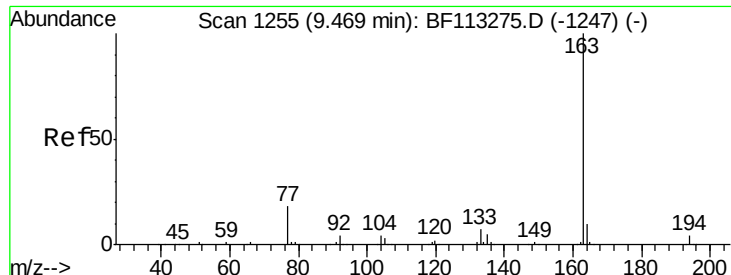
#49
Acenaphthylene
Concen: 2.600 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Tgt Ion:152 Resp: 85430
Ion Ratio Lower Upper
152 100
151 19.4 16.2 24.4
153 12.9 11.0 16.6



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

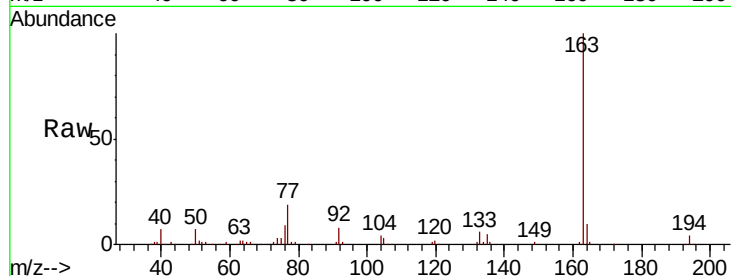




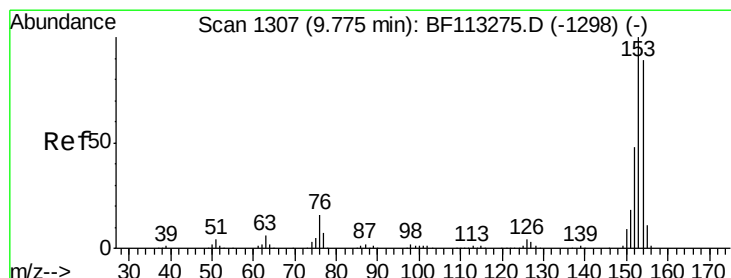
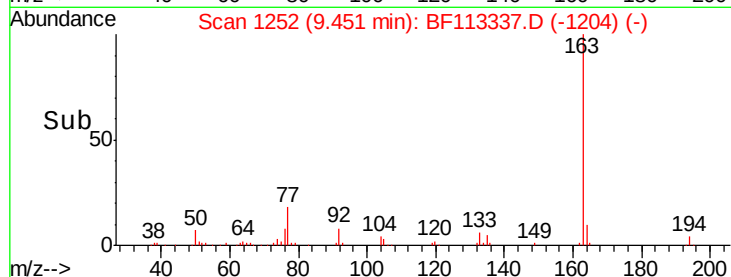
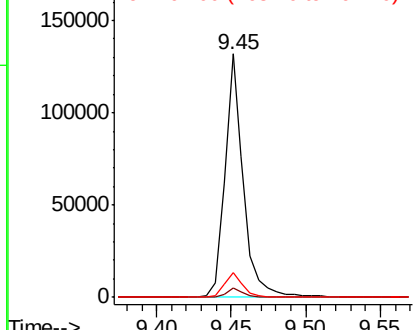
#50
Dimethylphthalate
Concen: 4.872 ng
RT: 9.45 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Instrument :
BNA_F
ClientSampleId :
CS-18

Tot Ion:163 Resp: 114118
Ion Ratio Lower Upper
163 100
194 3.9 3.0 4.6
164 10.1 8.1 12.1

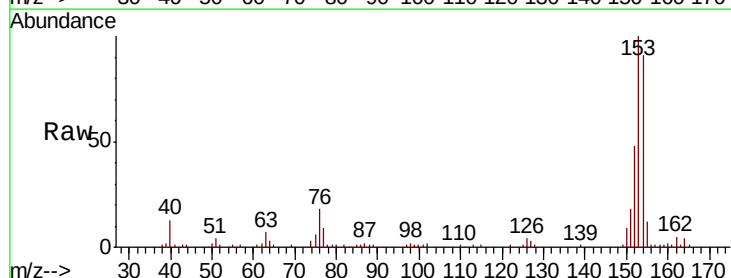


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

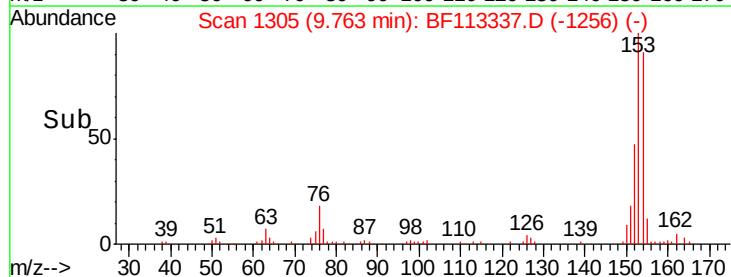
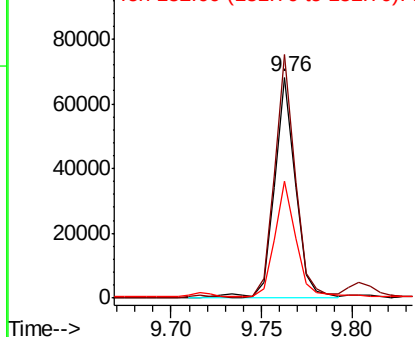


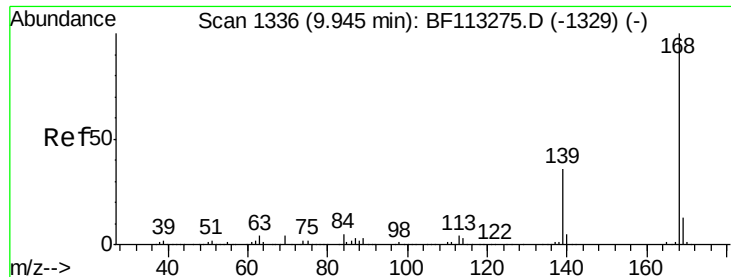
#52
Acenaphthene
Concen: 2.985 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Tgt Ion:154 Resp: 55237
Ion Ratio Lower Upper
154 100
153 110.4 89.5 134.3
152 53.1 43.3 64.9



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





#55

Dibenzofuran

Concen: 2.763 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampleId :

CS-18

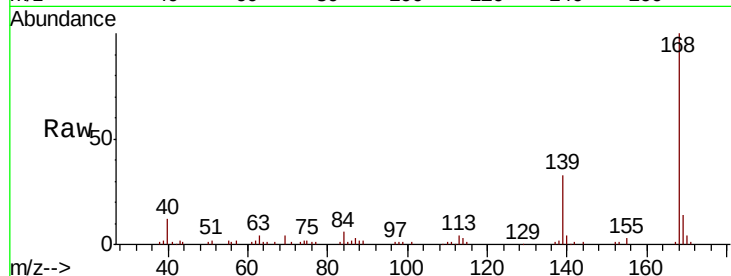
Tot Ion:168 Resp: 76868

Ion Ratio Lower Upper

168 100

139 32.9 29.7 44.5

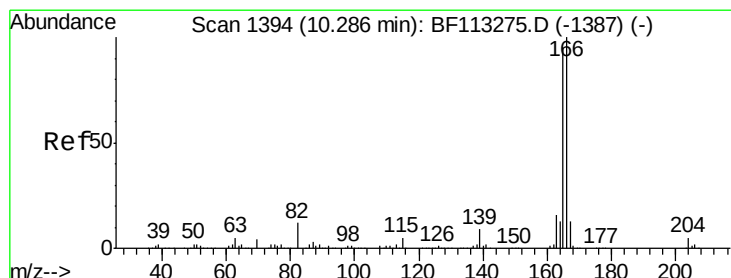
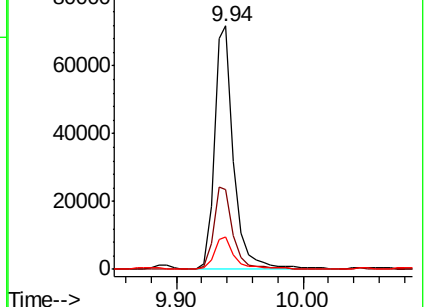
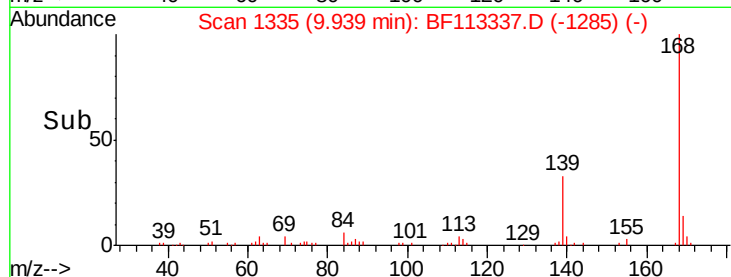
169 13.5 10.7 16.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#58

Fluorene

Concen: 2.866 ng

RT: 10.27 min Scan# 1392

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

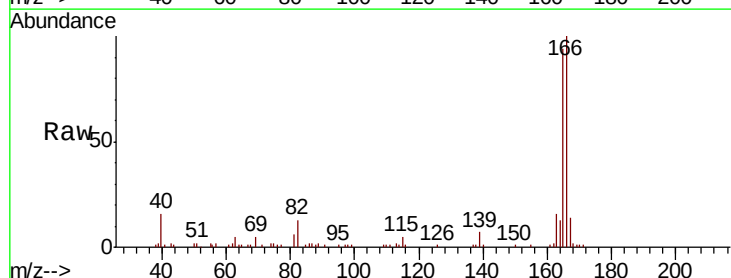
Tgt Ion:166 Resp: 61950

Ion Ratio Lower Upper

166 100

165 94.4 76.2 114.2

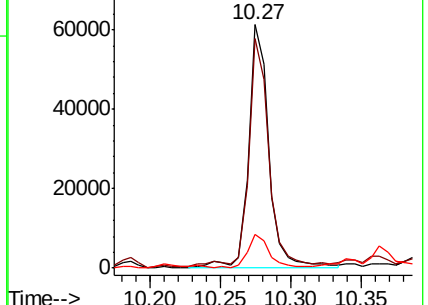
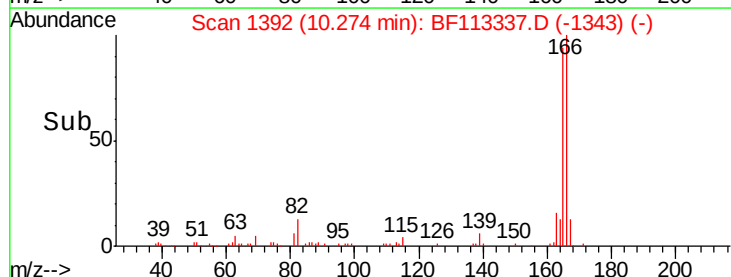
167 14.0 10.7 16.1

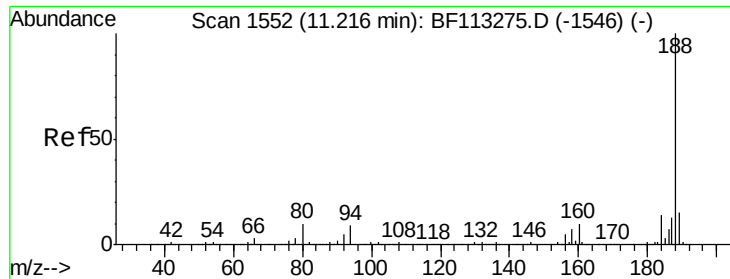


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.21 min Scan# 1551

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampleId :

CS-18

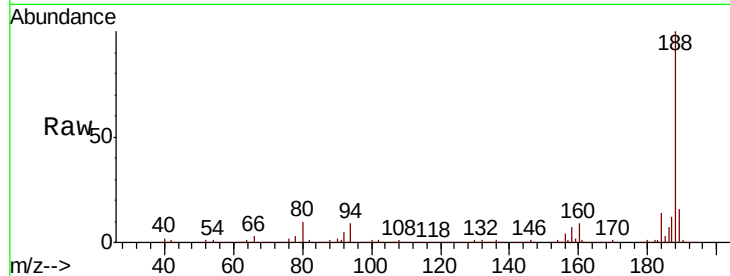
Tot Ion:188 Resp: 574770

Ion Ratio Lower Upper

188 100

94 9.4 7.0 10.6

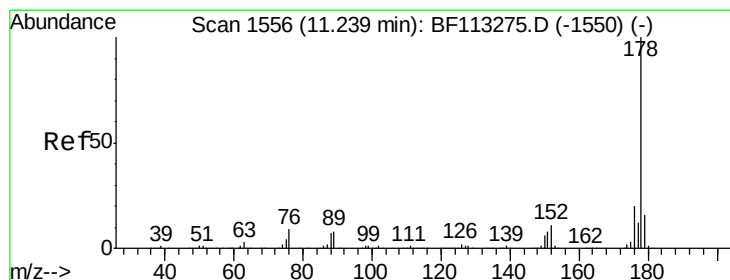
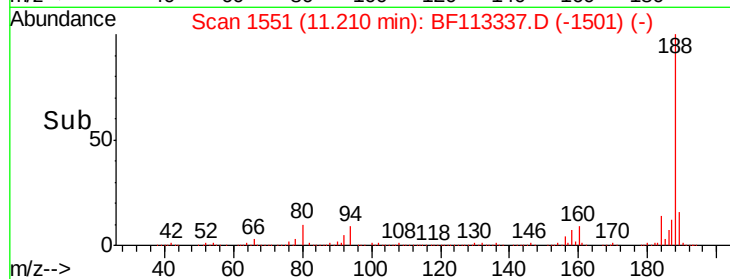
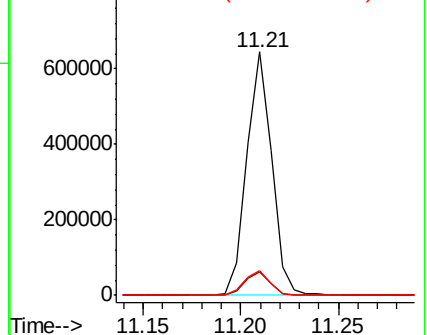
80 9.9 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 39.186 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

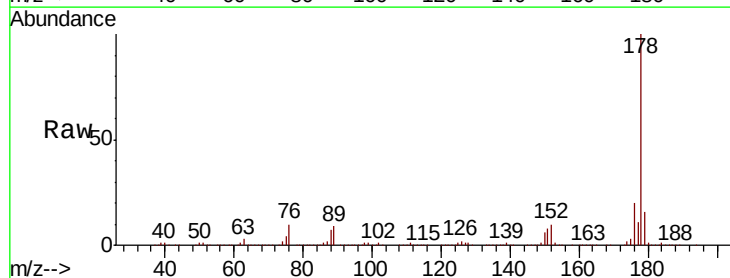
Tgt Ion:178 Resp: 1118497

Ion Ratio Lower Upper

178 100

176 20.2 16.2 24.2

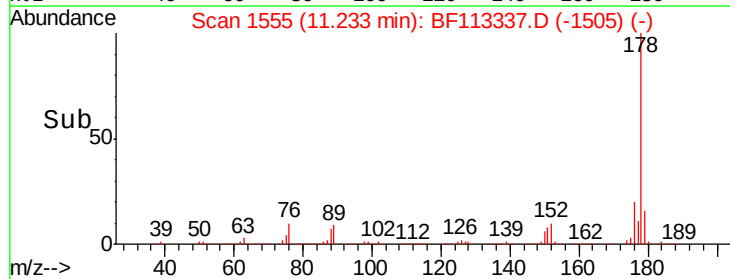
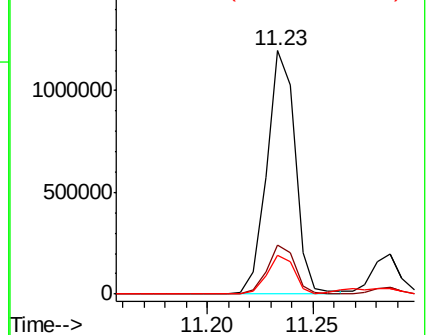
179 16.0 12.7 19.1

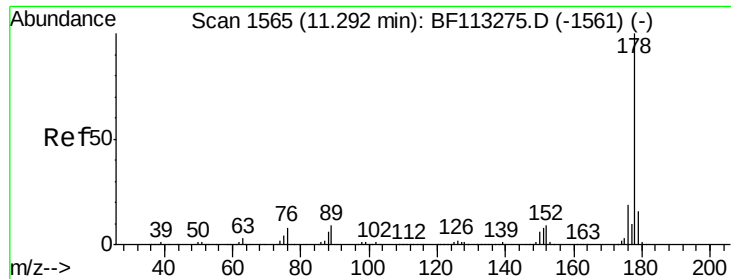


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 5.940 ng

RT: 11.29 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampleId :

CS-18

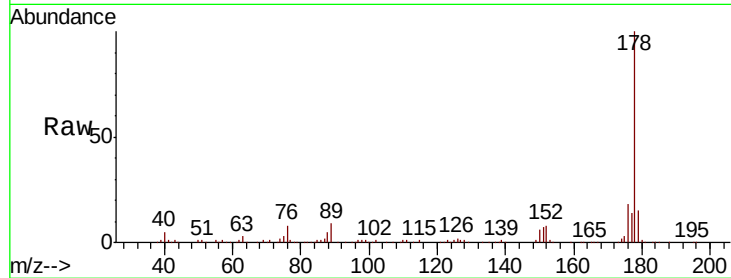
Tot Ion:178 Resp: 172226

Ion Ratio Lower Upper

178 100

176 18.1 15.4 23.2

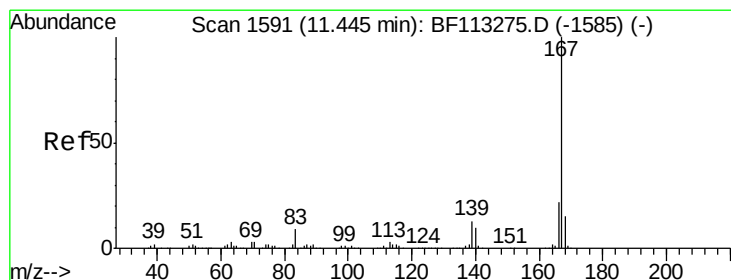
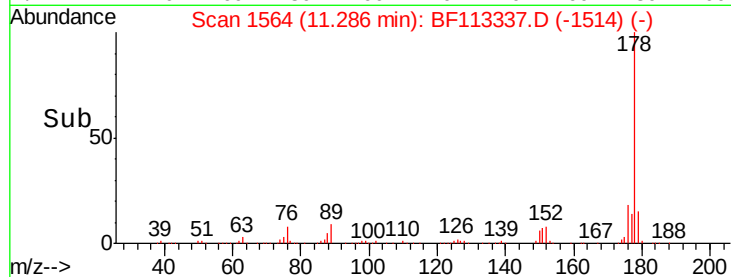
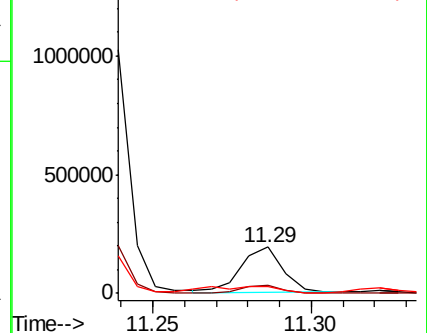
179 15.4 12.8 19.2



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



#73

Carbazole

Concen: 8.948 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

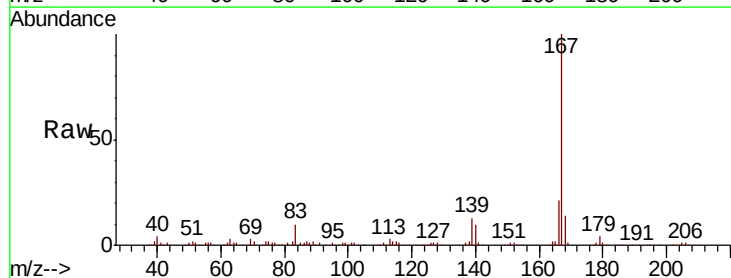
Tgt Ion:167 Resp: 247556

Ion Ratio Lower Upper

167 100

166 21.0 17.4 26.0

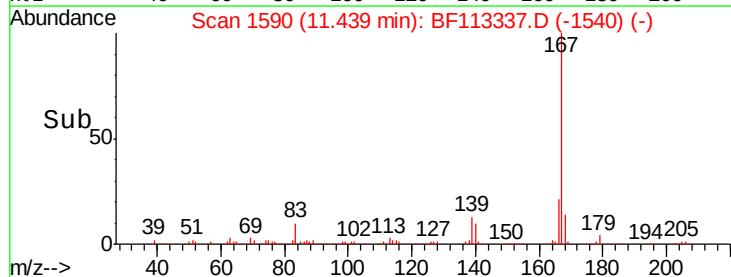
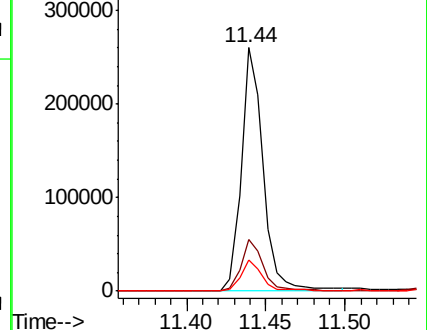
139 12.7 10.4 15.6

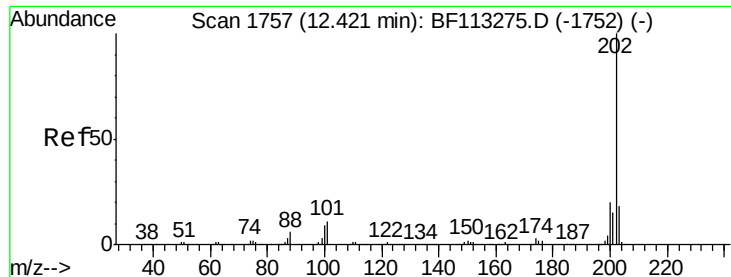


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 89.979 ng

RT: 12.43 min Scan# 1758

Delta R.T. 0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampleId :

CS-18

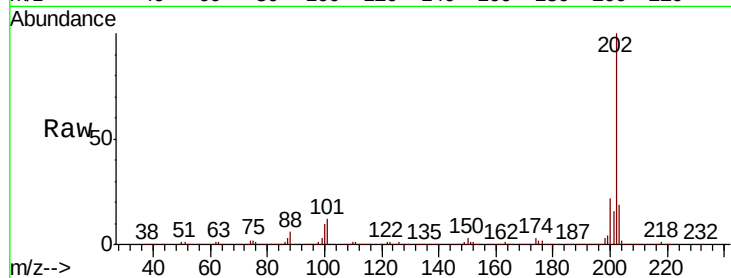
Tot Ion:202 Resp: 2903391

Ion Ratio Lower Upper

202 100

101 12.4 0.0 31.4

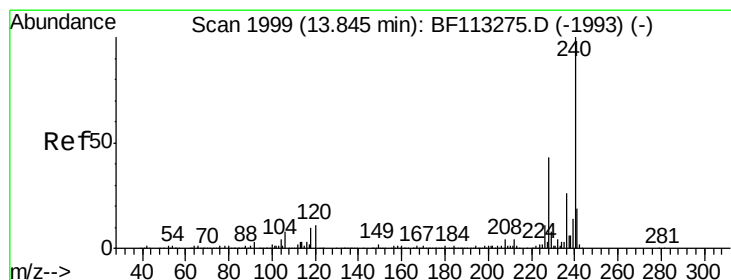
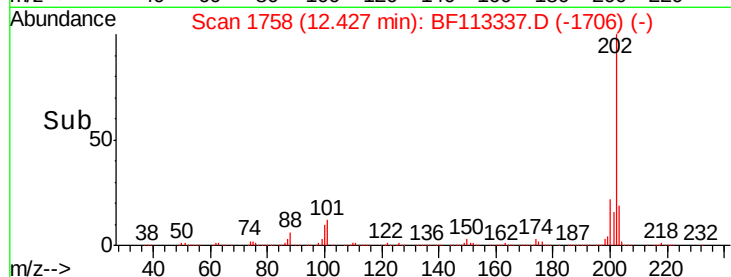
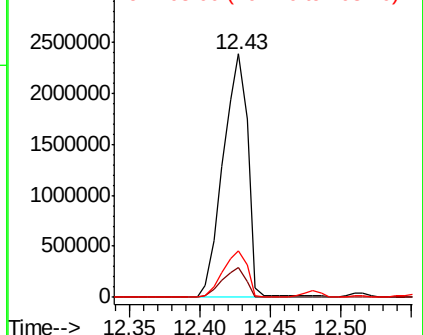
203 19.1 0.0 38.0



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

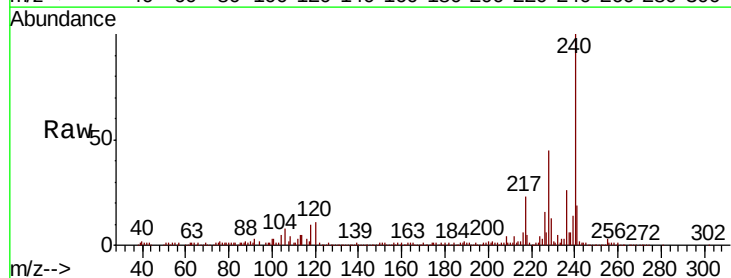
Tgt Ion:240 Resp: 391621

Ion Ratio Lower Upper

240 100

120 11.5 8.8 13.2

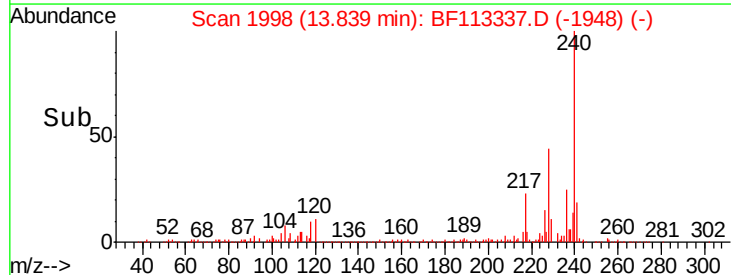
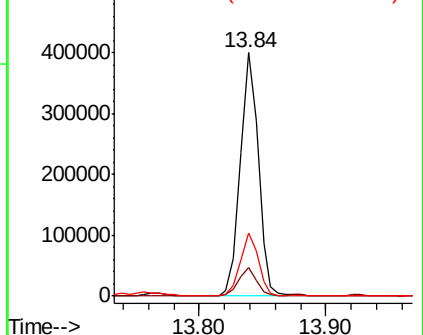
236 25.8 20.9 31.3

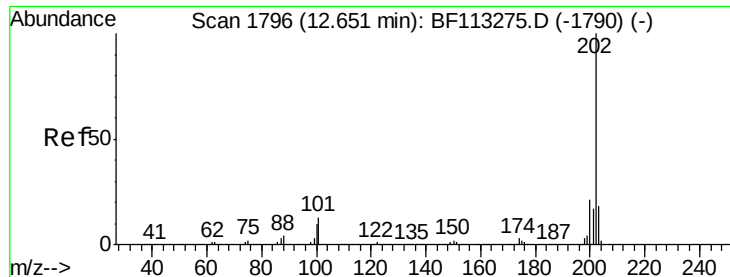


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 87.761 ng

RT: 12.65 min Scan# 1796

Delta R.T. -0.00 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampleId :

CS-18

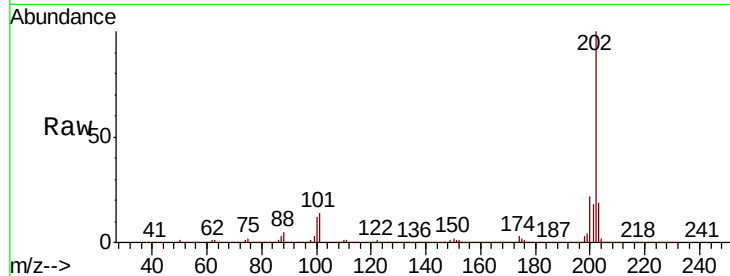
Tot Ion:202 Resp: 2381653

Ion Ratio Lower Upper

202 100

200 21.6 16.8 25.2

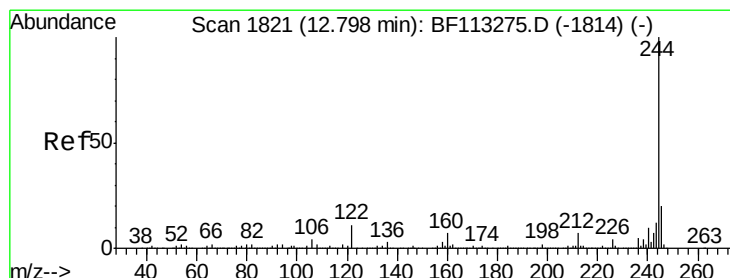
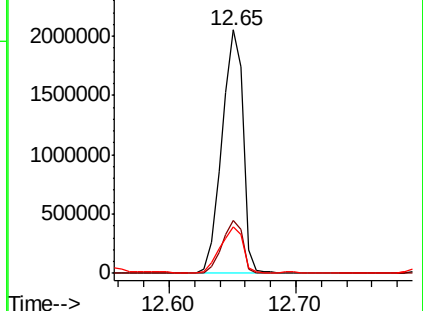
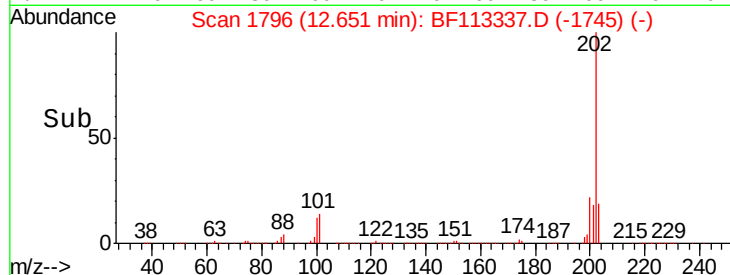
203 19.2 14.4 21.6



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



#79

Terphenyl-d14

Concen: 77.642 ng

RT: 12.79 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

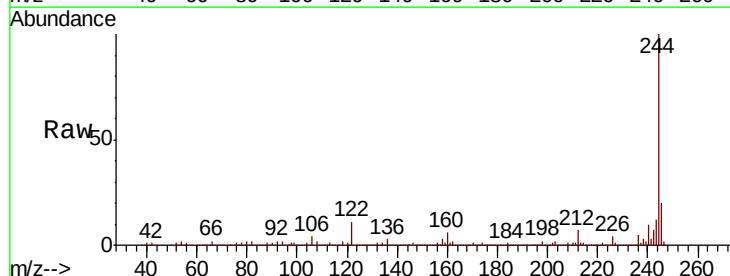
Tgt Ion:244 Resp: 1379492

Ion Ratio Lower Upper

244 100

212 6.5 5.5 8.3

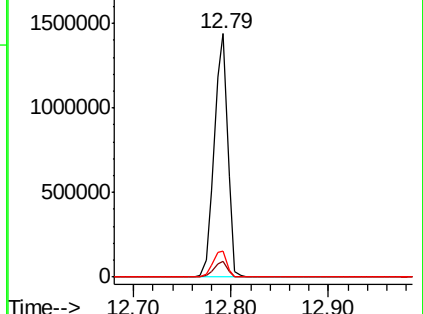
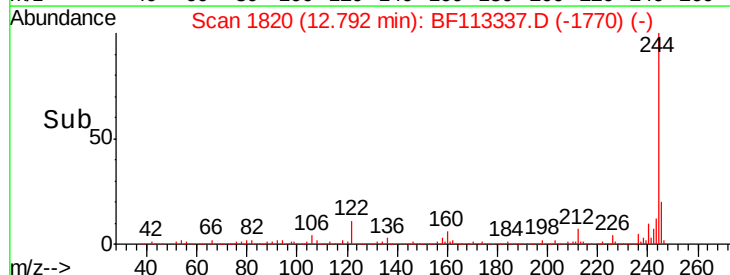
122 10.9 8.6 13.0

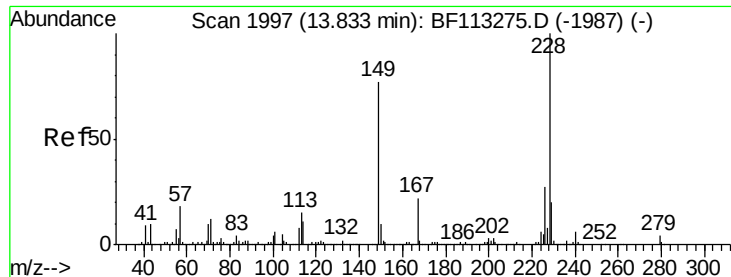


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

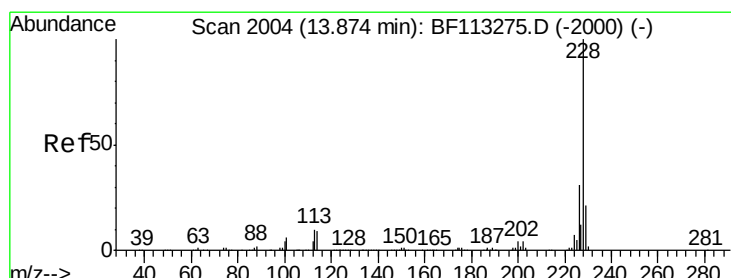
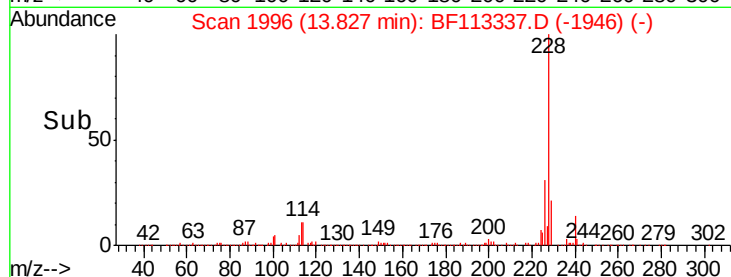
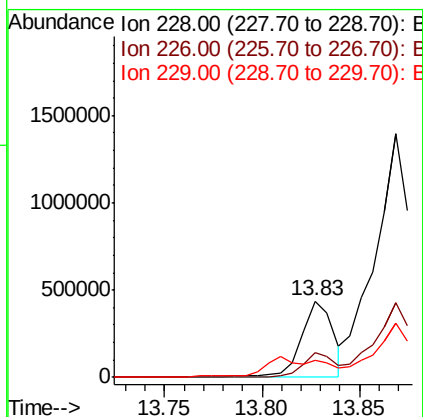
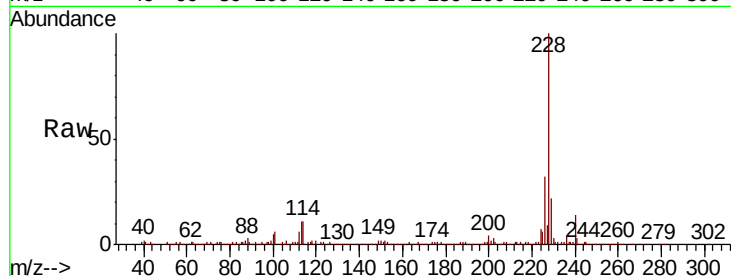




#81
Benzo(a)anthracene
Concen: 21.745 ng
RT: 13.83 min Scan# 1996
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

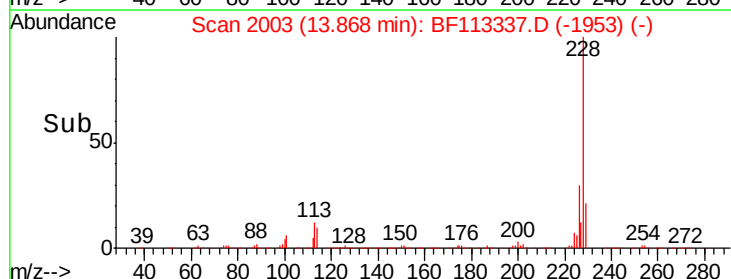
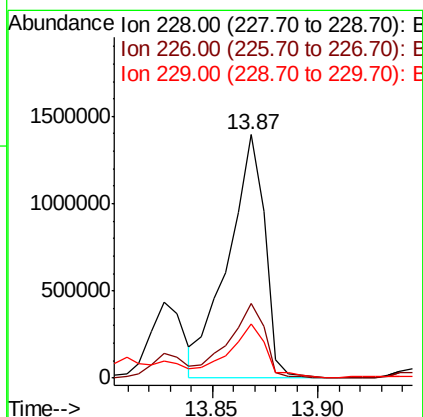
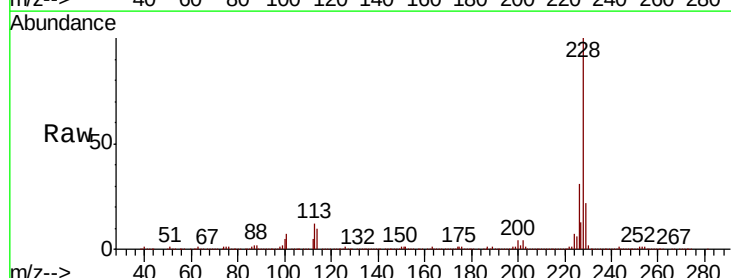
Instrument :
BNA_F
ClientSampleId :
CS-18

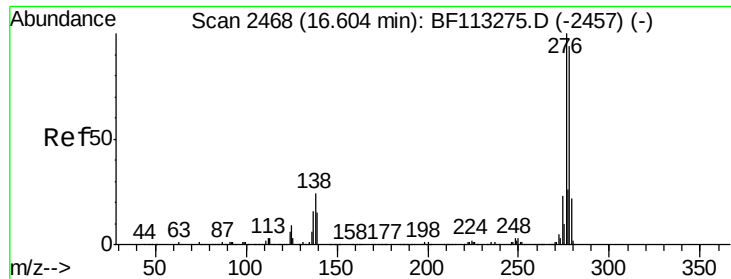
Tot Ion:228 Resp: 487455
Ion Ratio Lower Upper
228 100
226 31.6 21.8 32.8
229 21.9 16.2 24.4



#83
Chrysene
Concen: 73.171 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Tgt Ion:228 Resp: 1666078
Ion Ratio Lower Upper
228 100
226 30.6 24.3 36.5
229 22.0 16.3 24.5

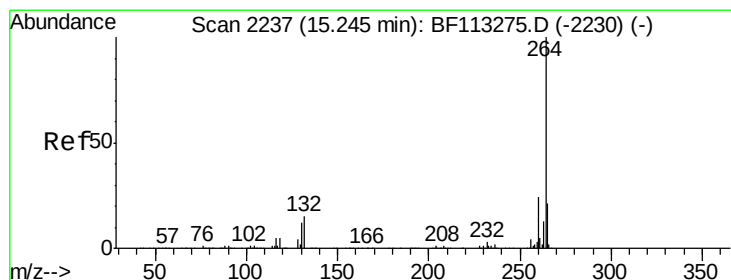
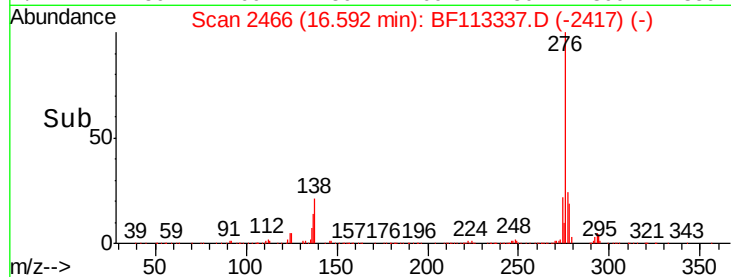
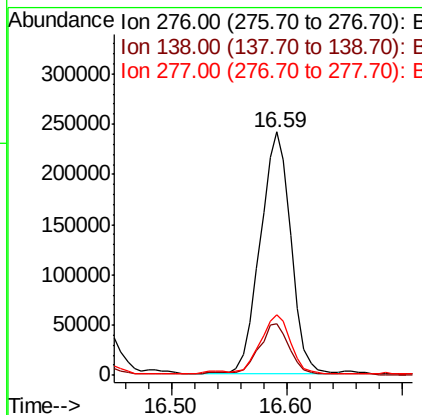
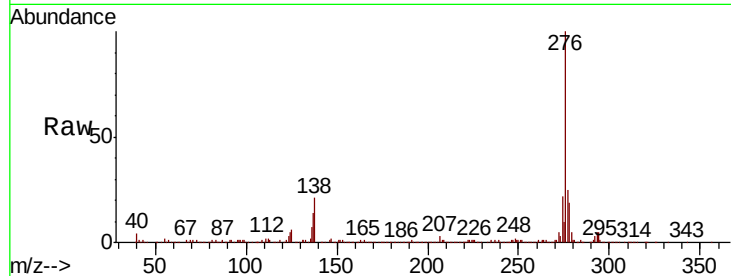




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 22.797 ng
 RT: 16.59 min Scan# 2466
 Delta R.T. -0.01 min
 Lab File: BF113337.D
 Acq: 27 Mar 2019 18:13

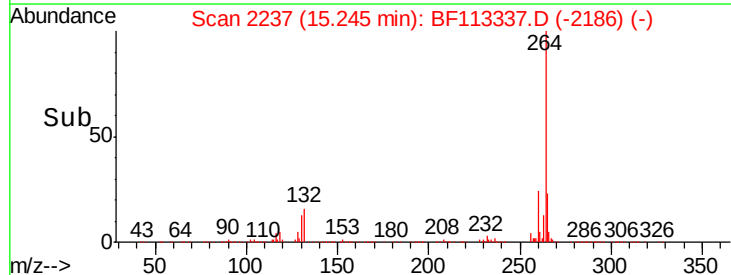
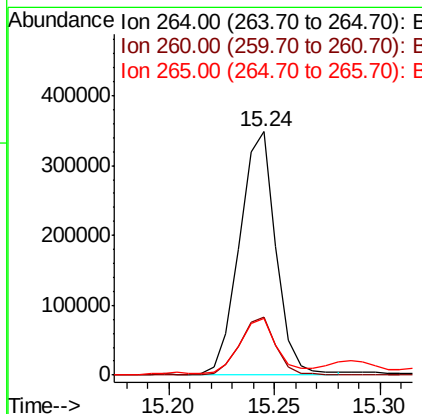
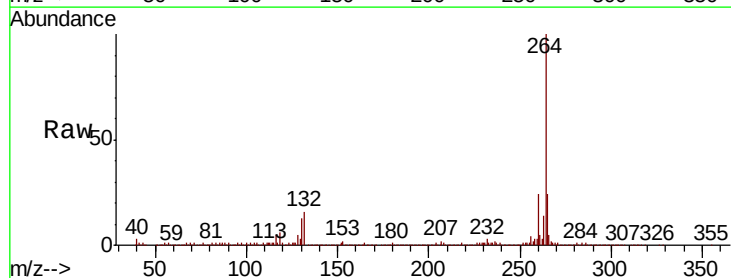
Instrument :
 BNA_F
 ClientSampleId :
 CS-18

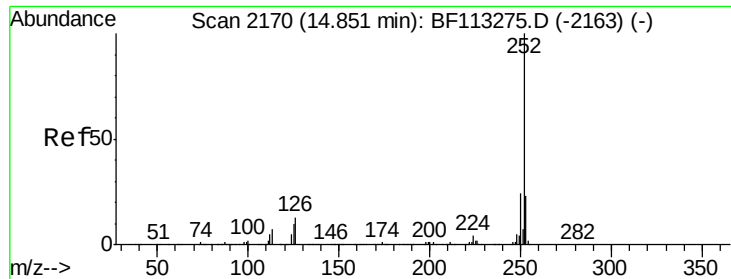
Tot Ion:276 Resp: 445492
 Ion Ratio Lower Upper
 276 100
 138 20.2 18.1 27.1
 277 24.0 20.2 30.4



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.24 min Scan# 2237
 Delta R.T. -0.00 min
 Lab File: BF113337.D
 Acq: 27 Mar 2019 18:13

Tgt Ion:264 Resp: 411392
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.1 28.7
 265 23.6 17.1 25.7

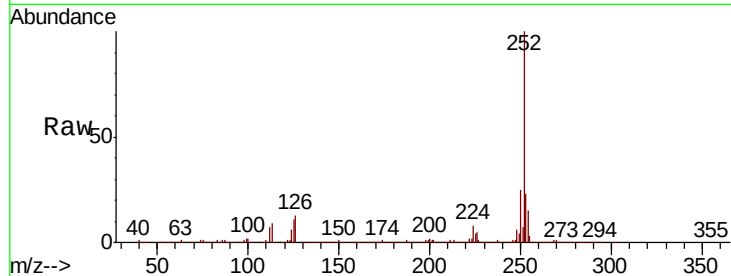




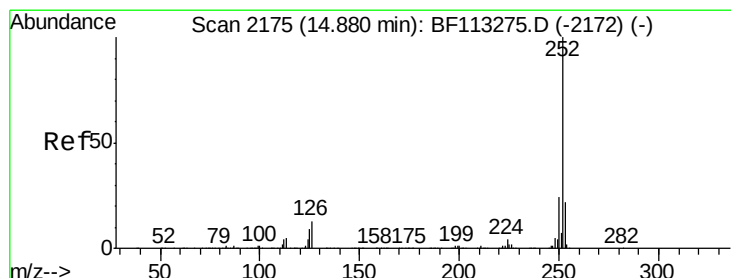
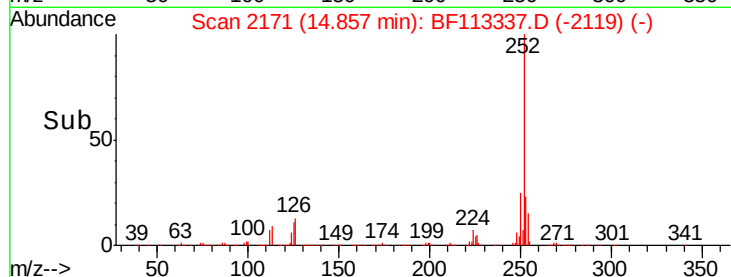
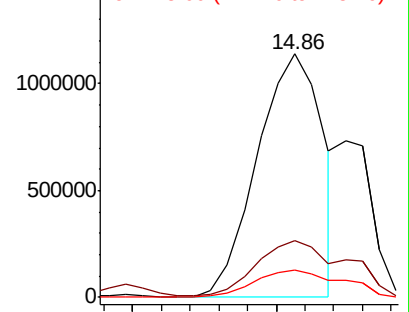
#88
Benzo(b)fluoranthene
Concen: 71.498 ng m
RT: 14.86 min Scan# 2171
Delta R.T. 0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Instrument :
BNA_F
ClientSampleId :
CS-18

Tot Ion:252 Resp: 1827173
Ion Ratio Lower Upper
252 100
253 23.2 18.0 27.0
125 11.3 7.6 11.4

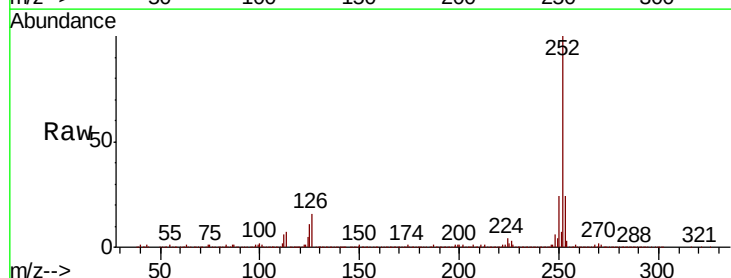


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

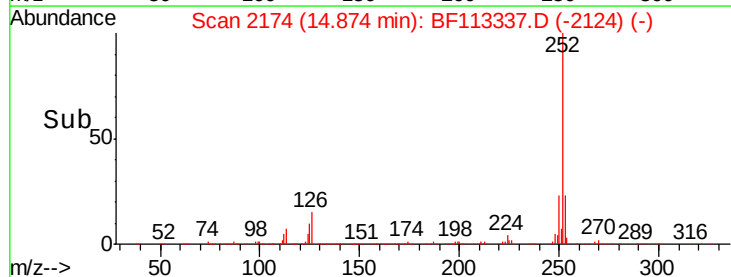
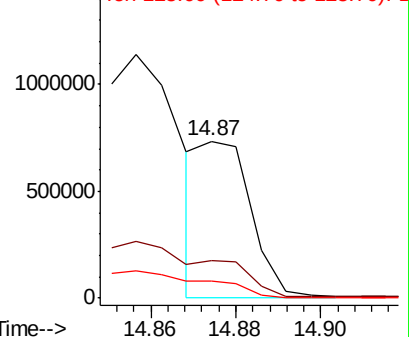


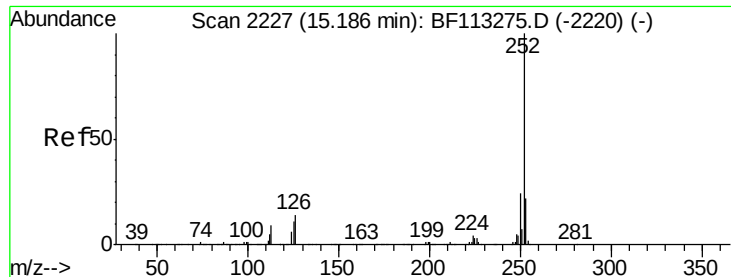
#89
Benzo(k)fluoranthene
Concen: 27.023 ng m
RT: 14.87 min Scan# 2174
Delta R.T. -0.01 min
Lab File: BF113337.D
Acq: 27 Mar 2019 18:13

Tgt Ion:252 Resp: 606472
Ion Ratio Lower Upper
252 100
253 23.6 17.7 26.5
125 10.6 7.3 10.9



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





#90

Benzo(a)pyrene

Concen: 19.343 ng

RT: 15.19 min Scan# 2227

Delta R.T. -0.00 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampled :

CS-18

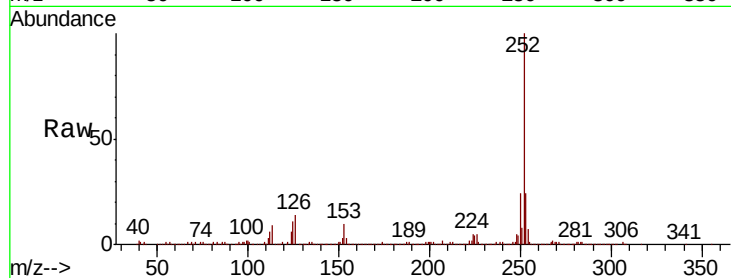
Tot Ion:252 Resp: 438245

Ion Ratio Lower Upper

252 100

253 24.3 17.9 26.9

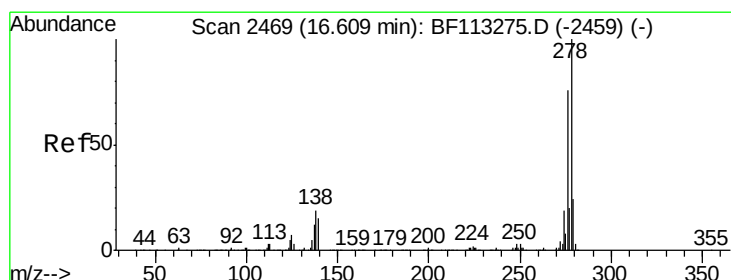
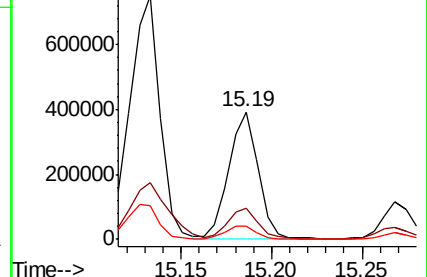
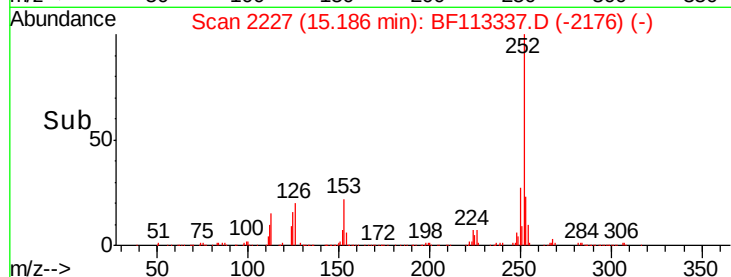
125 10.7 8.8 13.2



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



#91

Dibenzo(a,h)anthracene

Concen: 5.533 ng

RT: 16.60 min Scan# 2467

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

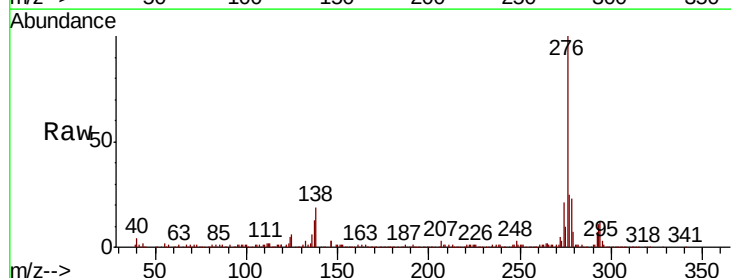
Tgt Ion:278 Resp: 108387

Ion Ratio Lower Upper

278 100

139 0.0 12.0 18.0#

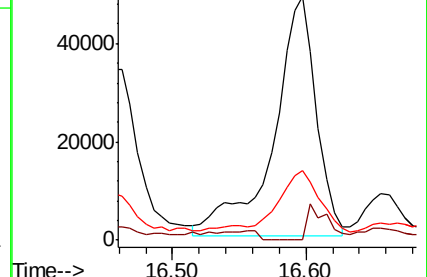
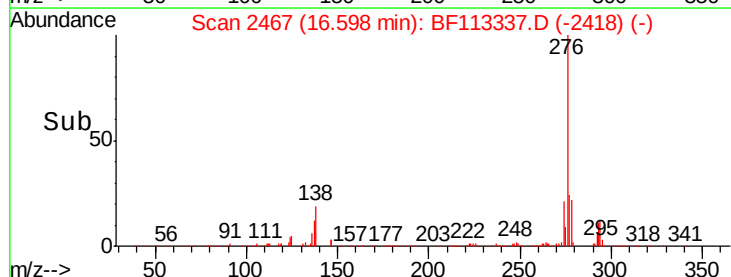
279 28.5 19.0 28.6

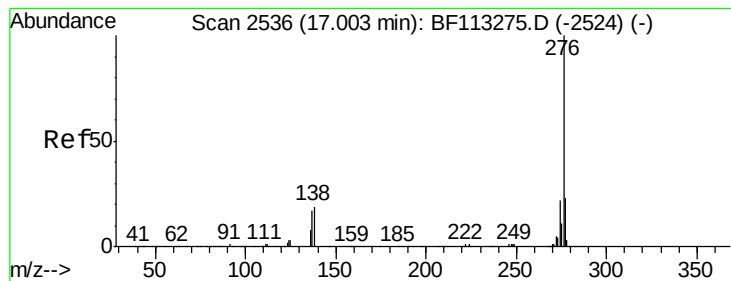


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 18.699 ng

RT: 17.00 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF113337.D

Acq: 27 Mar 2019 18:13

Instrument :

BNA_F

ClientSampleId :

CS-18

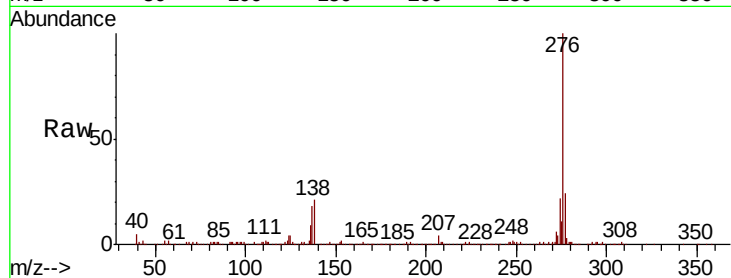
Tot Ion:276 Resp: 369340

Ion Ratio Lower Upper

276 100

277 23.9 18.8 28.2

138 21.4 15.6 23.4



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

