

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
 Data File : BF111164.D
 Acq On : 7 Dec 2018 3:11
 Operator : JU/SJ
 Sample : J6195-03 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 07 07:32:39 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 05 17:30:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	519906	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	1898430	20.00	ng	0.00
39) Acenaphthene-d10	9.84	164	755256	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	1108599	20.00	ng	0.00
76) Chrysene-d12	13.96	240	897593	20.00	ng	0.01
87) Perylene-d12	15.40	264	632738	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.42	112	1541592	46.27	ng	0.00
7) Phenol-d6	6.43	99	1915369	44.63	ng	0.00
23) Nitrobenzene-d5	7.36	82	1134430	35.38	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	262830	43.78	ng	0.00
45) 2-Fluorobiphenyl	9.16	172	1707745	33.07	ng	0.00
79) Terphenyl-d14	12.91	244	1209256	27.59	ng	0.00

Target Compounds

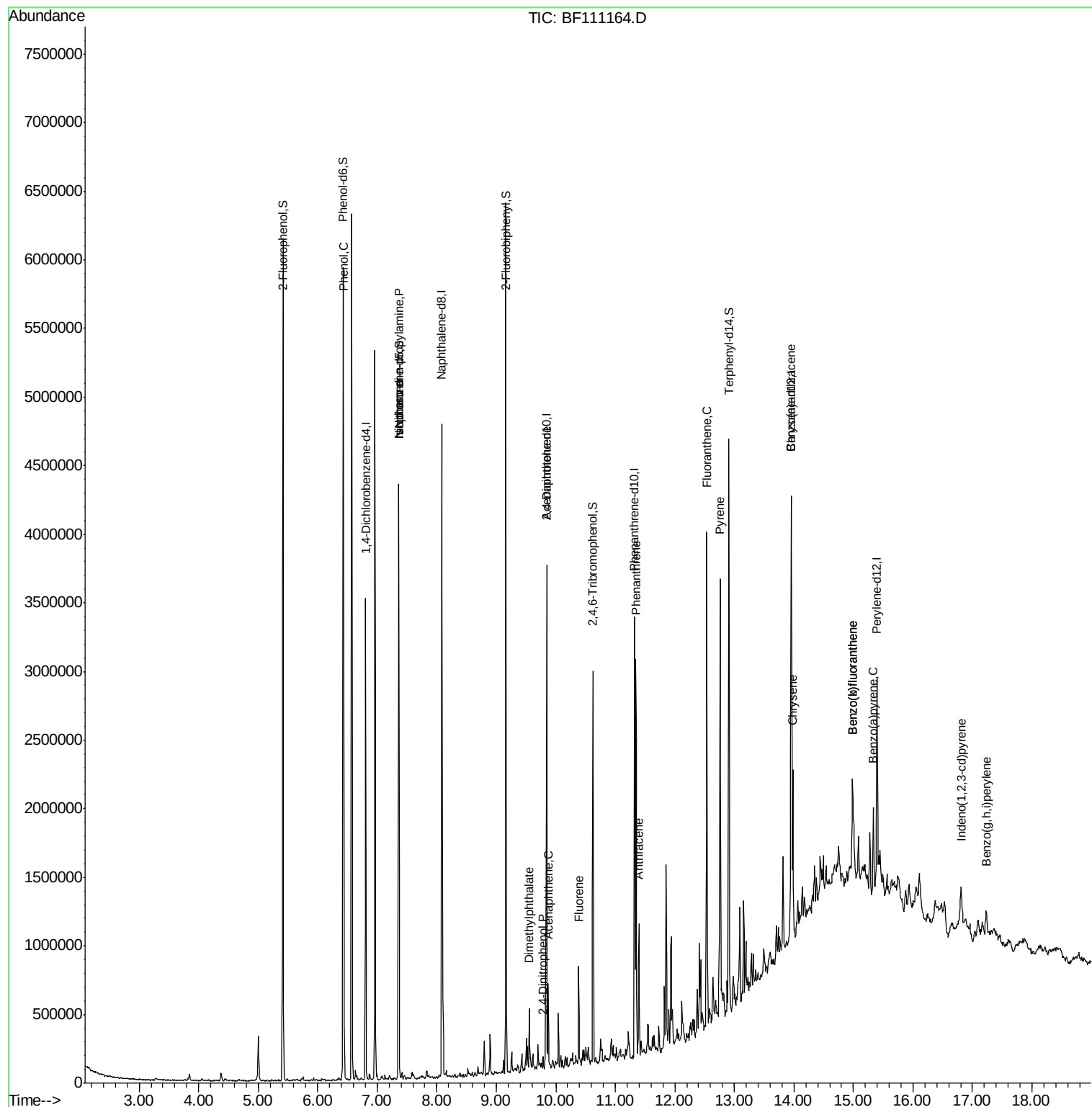
						Qvalue
9) Benzaldehyde	6.35	77	1264	Below Cal	#	68
10) Phenol	6.44	94	120551	2.576	ng	96
19) n-Nitroso-di-n-propylamine	7.36	70	153600	5.325	ng	75
25) Isophorone	7.36	82	1131107	19.221	ng	65
50) Dimethylphthalate	9.56	163	149314	2.841	ng	96
52) Acenaphthene	9.87	154	114284	2.576	ng	96
54) 2,4-Dinitrophenol	9.77	184	144	6.642	ng	# 1
57) 2,4-Dinitrotoluene	9.84	165	101035	7.020	ng	# 23
58) Fluorene	10.39	166	164625	3.820	ng	99
71) Phenanthrene	11.35	178	1022259	19.170	ng	95
72) Anthracene	11.40	178	323327	6.015	ng	95
75) Fluoranthene	12.53	202	1313598	25.174	ng	97
77) Benzidine	12.64	184	761	Below Cal	#	1
78) Pyrene	12.76	202	1210534	17.311	ng	95
81) Benzo(a)anthracene	13.95	228	527526	10.031	ng	99
83) Chrysene	13.99	228	485369	9.297	ng	95
86) Indeno(1,2,3-cd)pyrene	16.81	276	150673	3.594	ng	# 92
88) Benzo(b)fluoranthene	14.99	252	537520	14.992	ng	# 95
89) Benzo(k)fluoranthene	14.99	252	537520	15.508	ng	# 94
90) Benzo(a)pyrene	15.33	252	289674	8.808	ng	96
92) Benzo(a,h,i)perylene	17.23	276	146121	5.269	ng	93

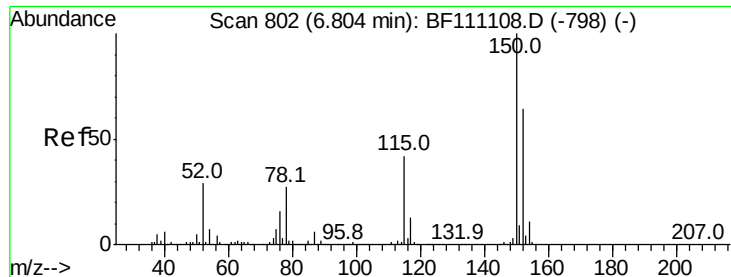
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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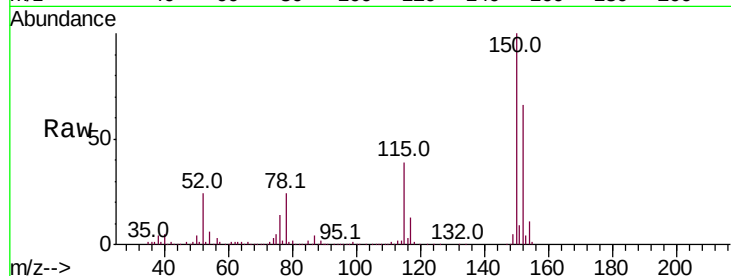


#1

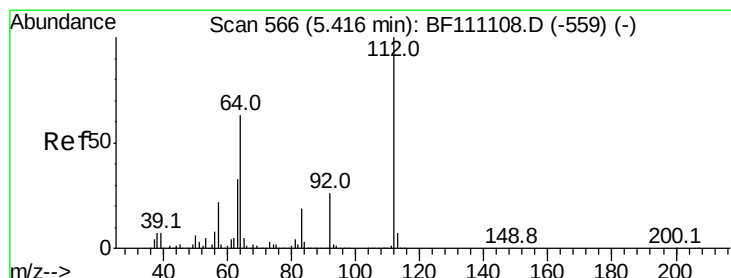
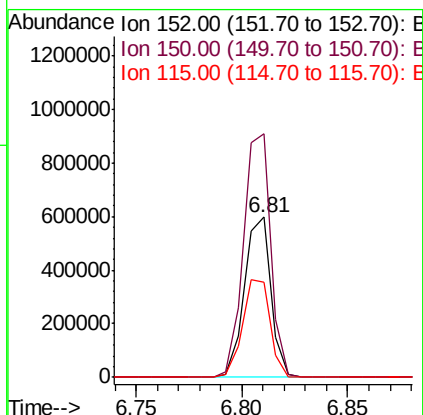
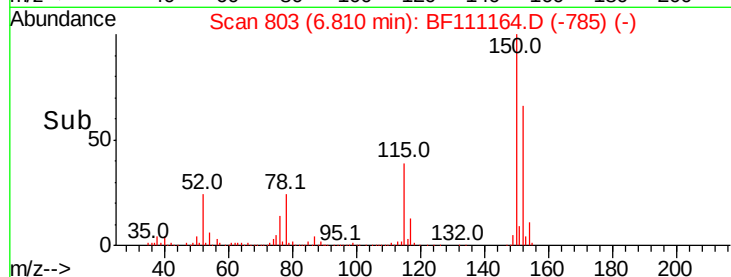
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 519906
Ion Ratio Lower Upper
152 100
150 152.3 124.6 187.0
115 59.3 52.2 78.2



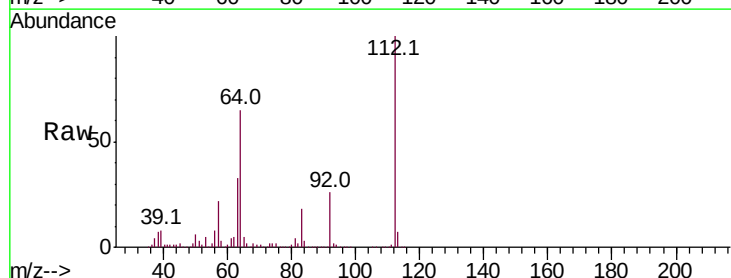
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



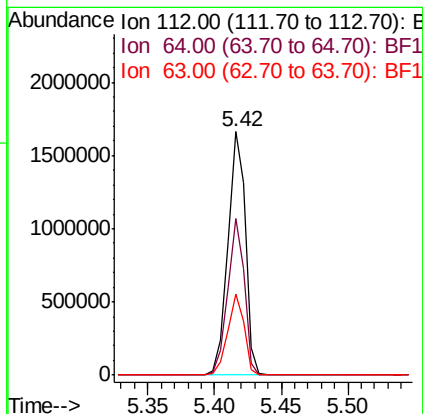
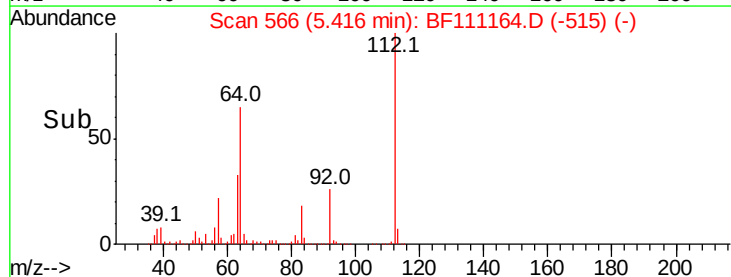
#5

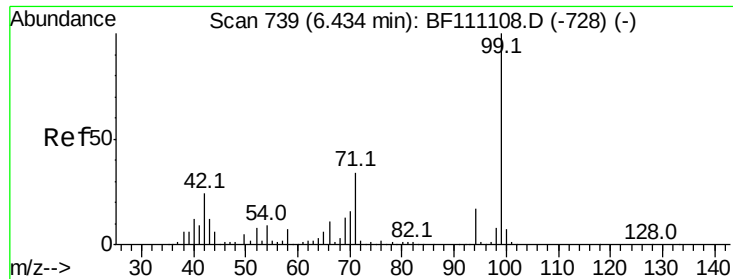
2-Fluorophenol
Concen: 46.270 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.00 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Tgt Ion:112 Resp: 1541592
Ion Ratio Lower Upper
112 100
64 64.5 50.2 75.4
63 33.3 26.6 39.8



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: 44.628 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

Instrument :

BNA_F

ClientSampled :

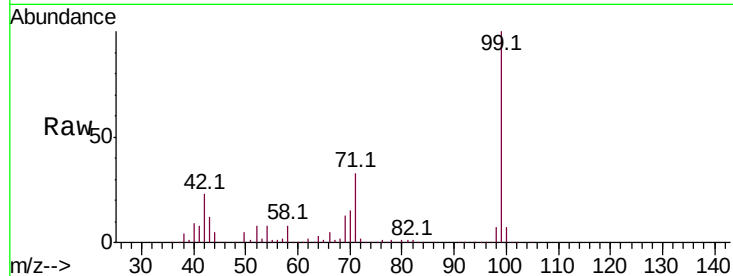
Tot Ion: 99 Resp: 1915369

Ion Ratio Lower Upper

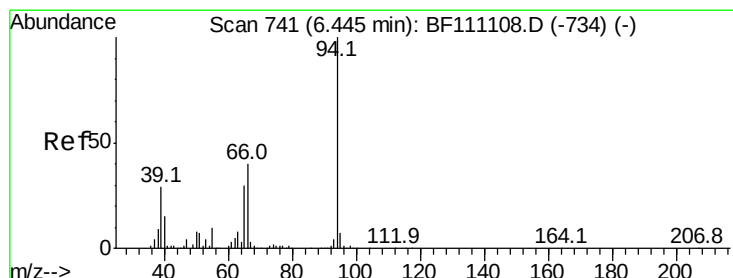
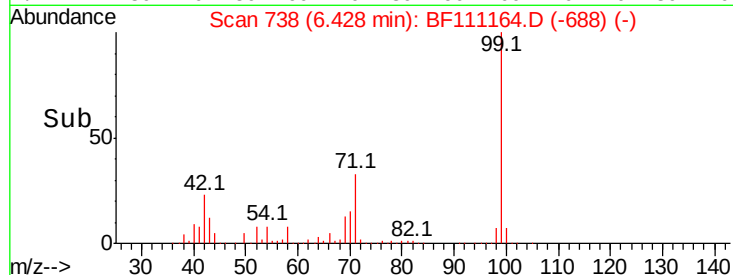
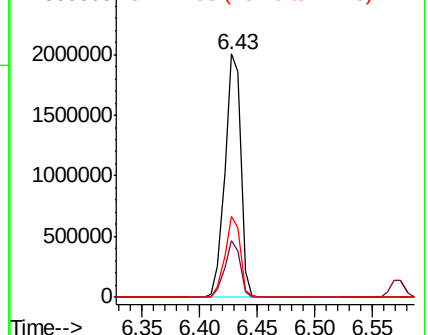
99 100

42 23.3 19.3 28.9

71 33.1 27.4 41.2



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: 2.576 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

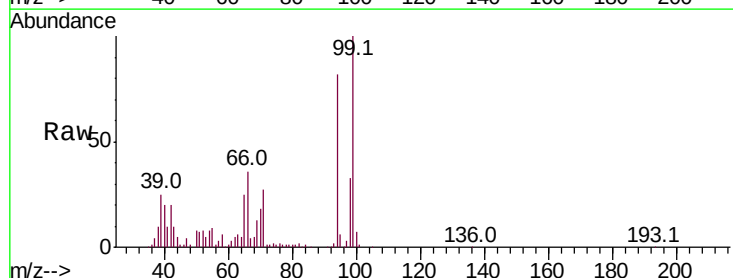
Tgt Ion: 94 Resp: 120551

Ion Ratio Lower Upper

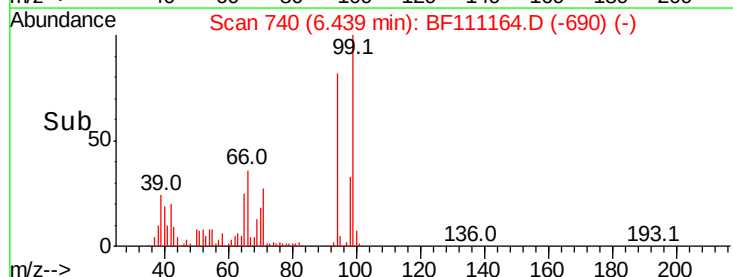
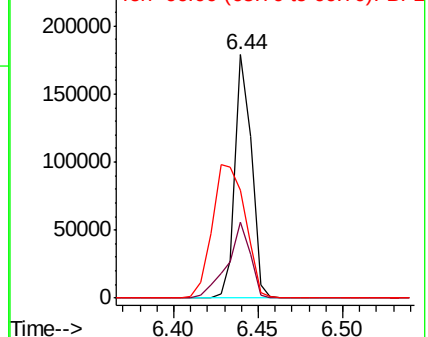
94 100

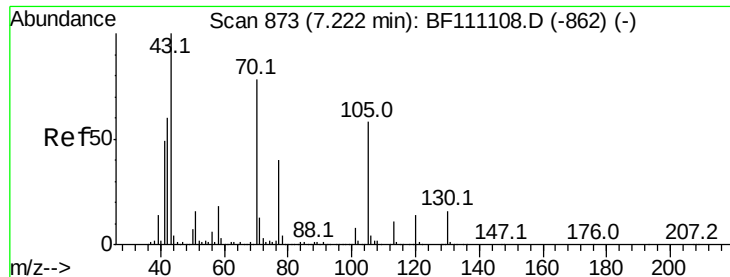
65 31.1 10.5 50.5

66 44.1 19.8 59.8



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

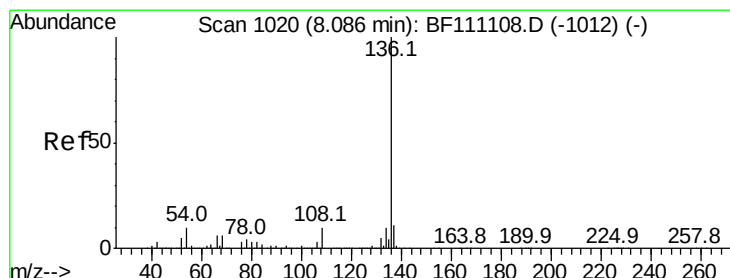
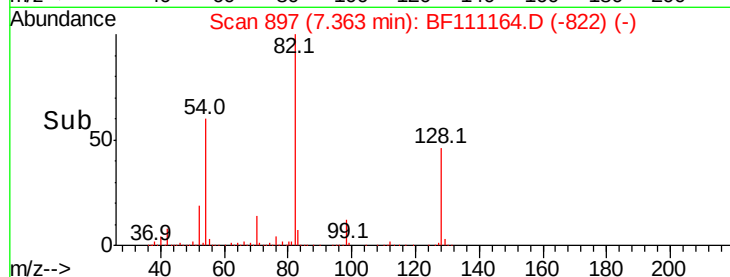
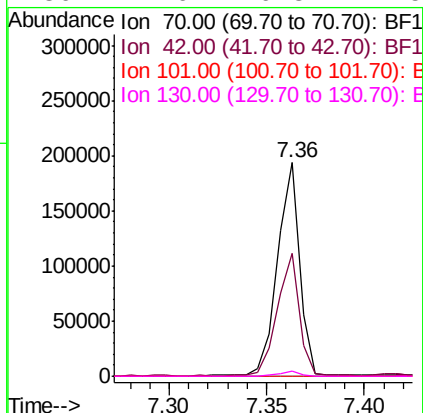
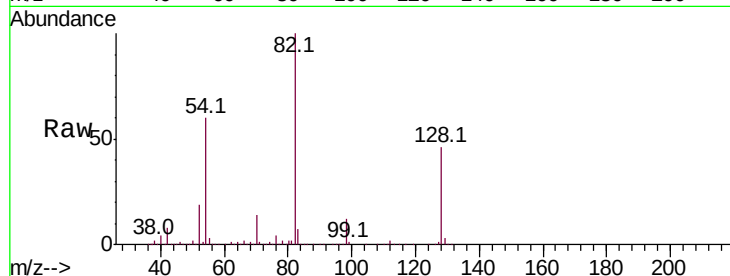




#19
n-Nitroso-di-n-propylamine
Concen: 5.325 ng
RT: 7.36 min Scan# 897
Delta R.T. 0.14 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

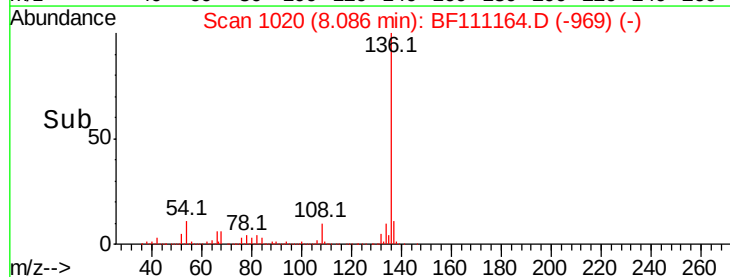
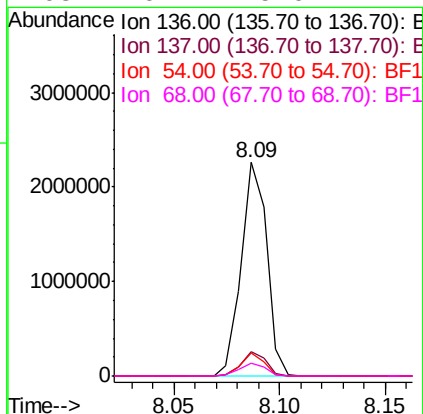
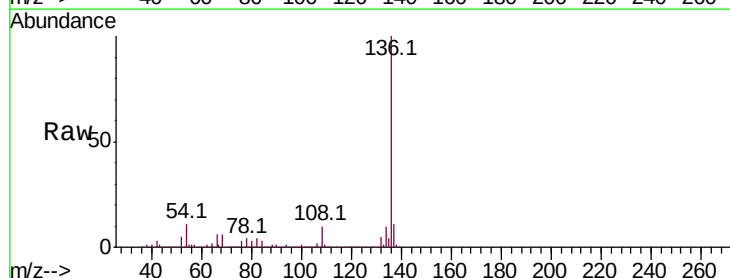
Instrument :
BNA_F
ClientSampleId :

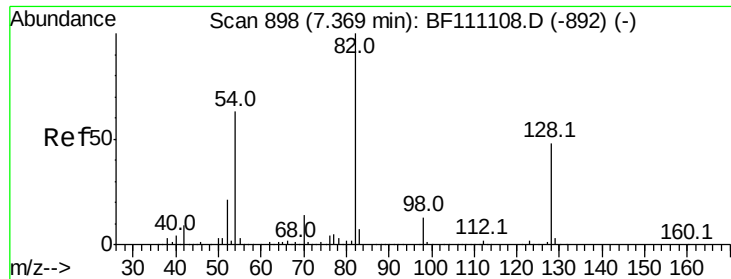
Tot Ion: 70 Resp: 153600
Ion Ratio Lower Upper
70 100
42 57.8 61.3 91.9#
101 0.0 7.7 11.5#
130 2.6 16.3 24.5#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.00 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Tgt Ion: 136 Resp: 1898430
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.6
54 10.6 8.4 12.6
68 6.2 5.0 7.4

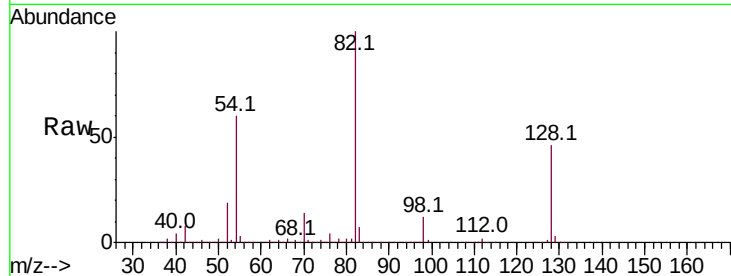




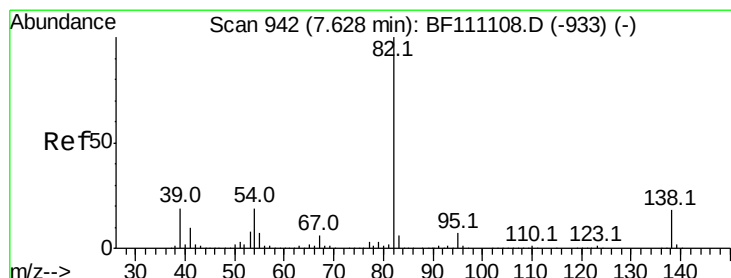
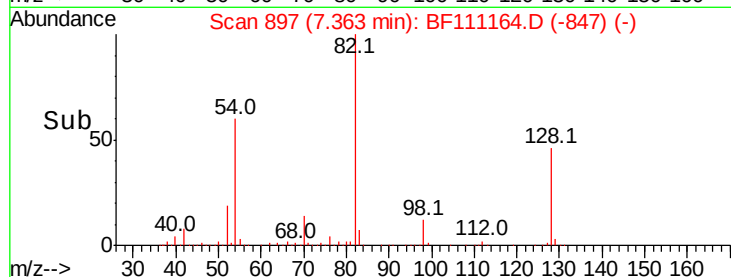
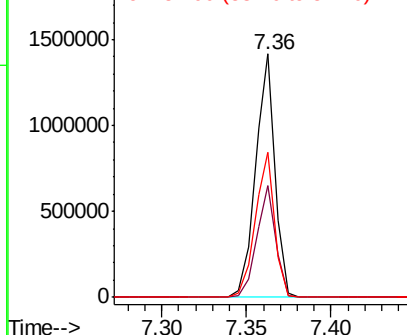
#23
Nitrobenzene-d5
Concen: 35.378 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 1134430
Ion Ratio Lower Upper
82 100
128 46.0 38.1 57.1
54 59.7 50.3 75.5

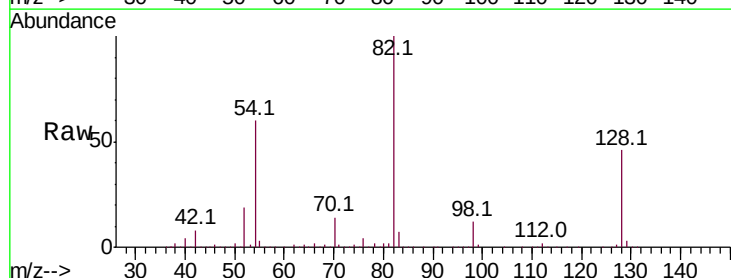


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

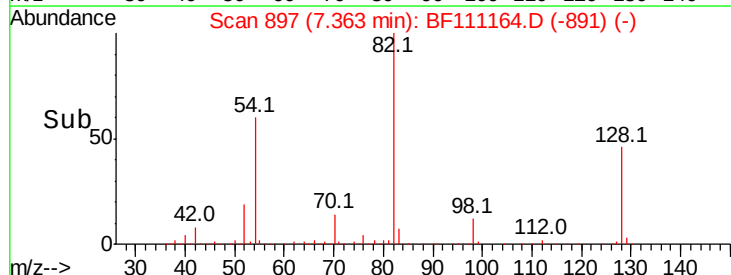
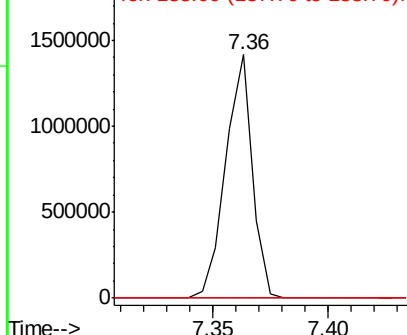


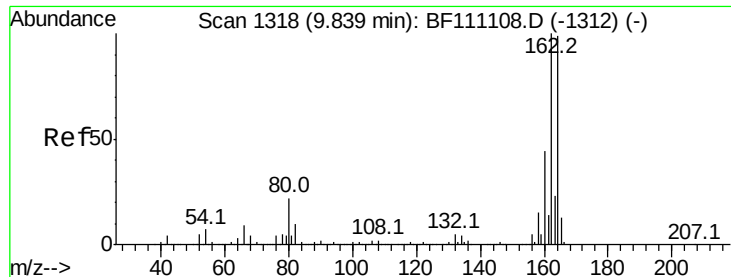
#25
Isophorone
Concen: 19.221 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.26 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Tgt Ion: 82 Resp: 1131107
Ion Ratio Lower Upper
82 100
95 0.0 5.6 8.4#
138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.00 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

Instrument :

BNA_F

ClientSampleId :

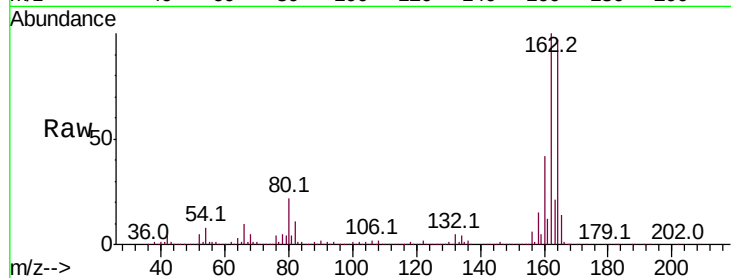
Tot Ion:164 Resp: 755256

Ion Ratio Lower Upper

164 100

162 102.7 80.6 120.8

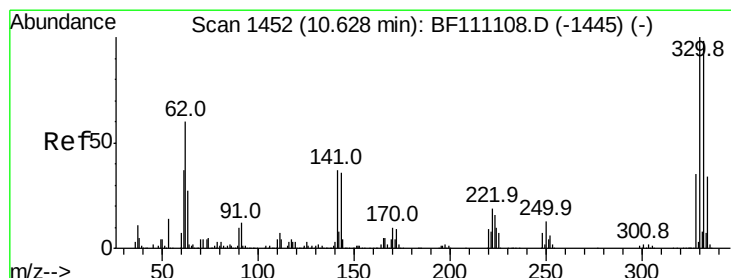
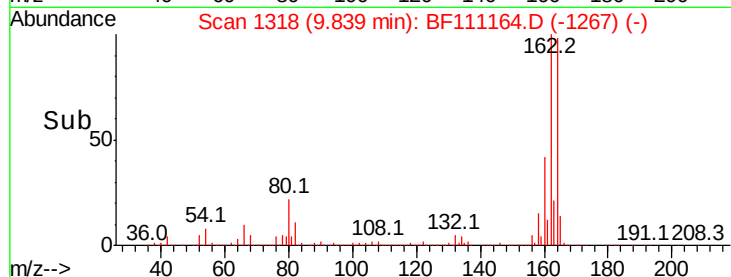
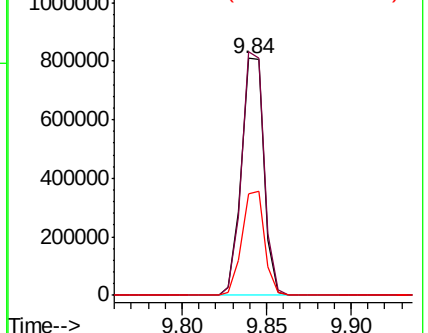
160 43.0 35.5 53.3



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



#42

2,4,6-Tribromophenol

Concen: 43.780 ng

RT: 10.63 min Scan# 1452

Delta R.T. -0.00 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

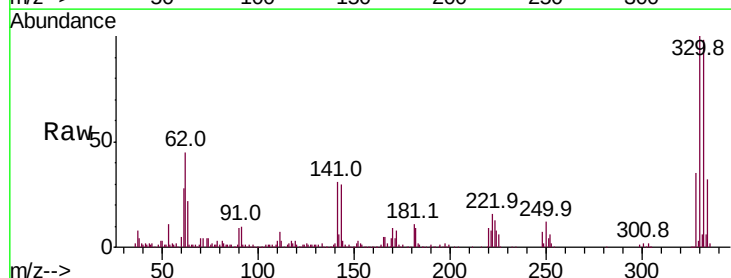
Tgt Ion:330 Resp: 262830

Ion Ratio Lower Upper

330 100

332 95.0 77.2 115.8

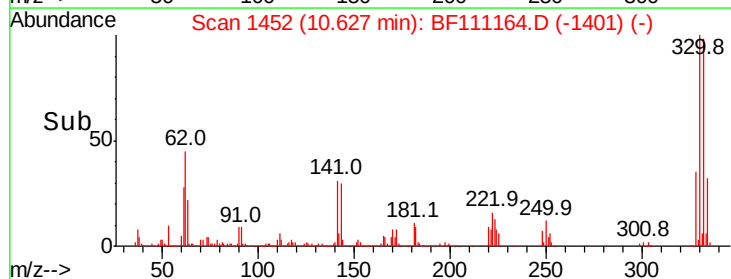
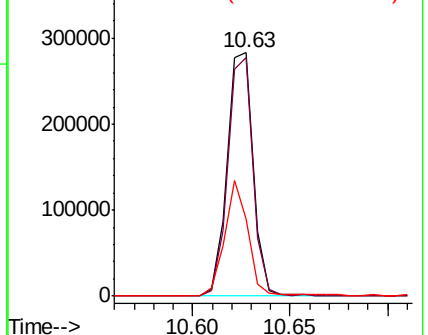
141 41.2 36.1 54.1

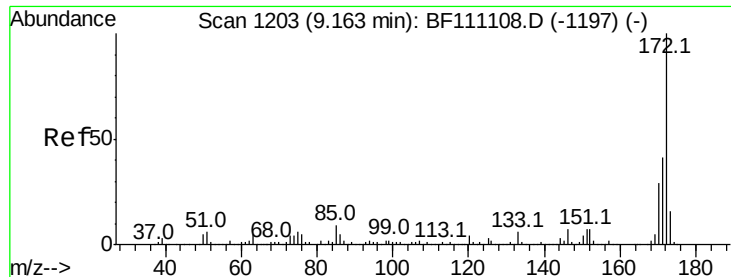


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



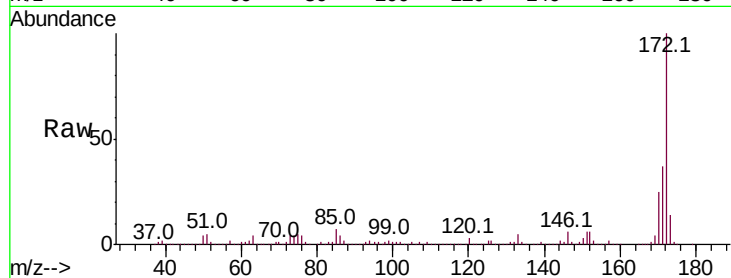


#45
 2-Fluorobiphenyl
 Concen: 33.074 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: BF111164.D
 Acq: 7 Dec 2018 3:11

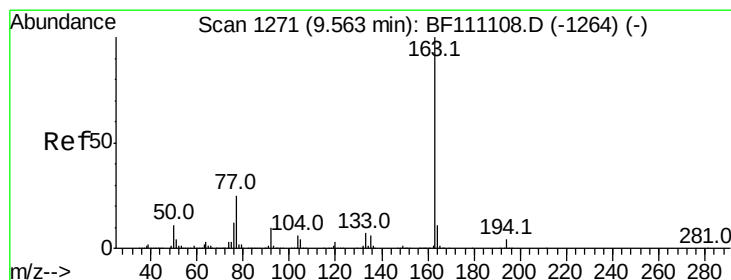
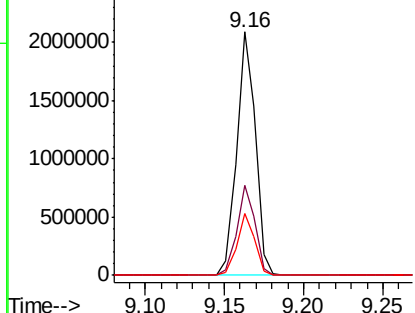
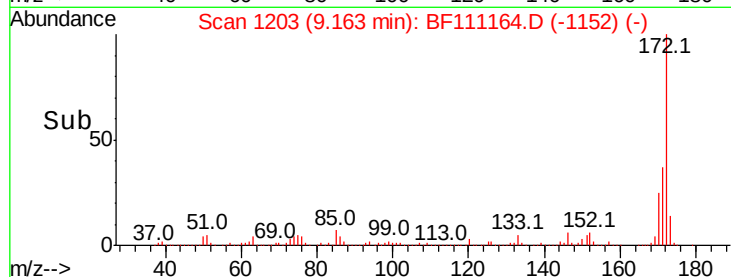
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1707745

Ion	Ratio	Lower	Upper
172	100		
171	37.0	33.2	49.8
170	25.3	22.9	34.3



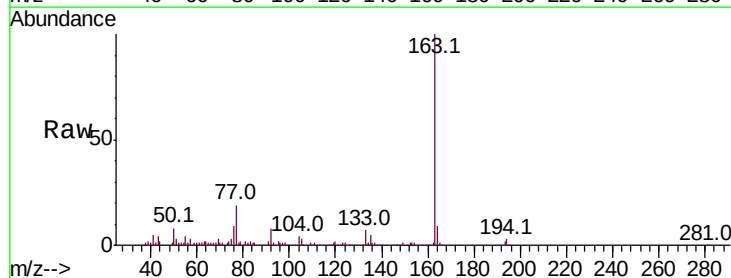
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



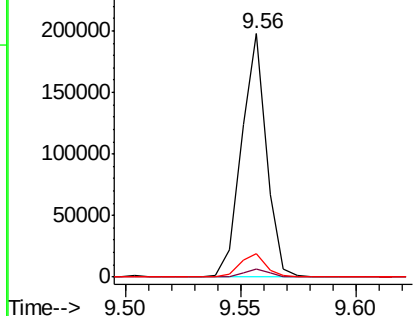
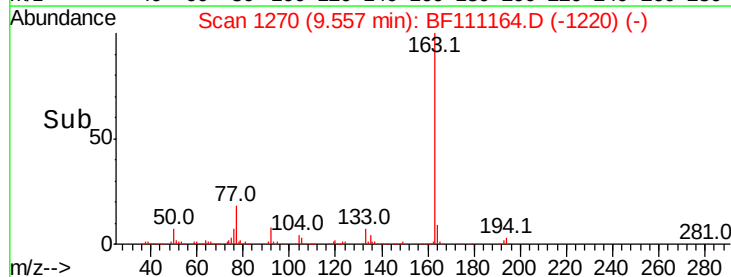
#50
 Dimethylphthalate
 Concen: 2.841 ng
 RT: 9.56 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: BF111164.D
 Acq: 7 Dec 2018 3:11

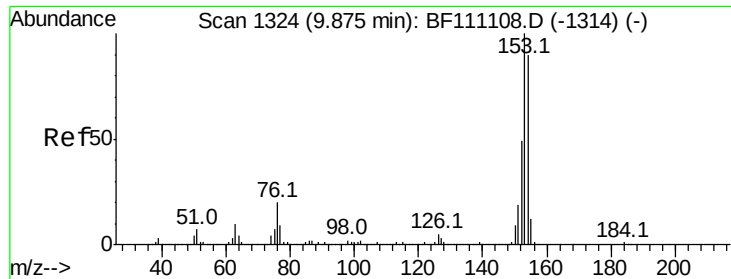
Tgt Ion:163 Resp: 149314

Ion	Ratio	Lower	Upper
163	100		
194	3.4	3.0	4.4
164	9.4	8.9	13.3



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: 2.576 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.00 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

Instrument :

BNA_F

ClientSampleId :

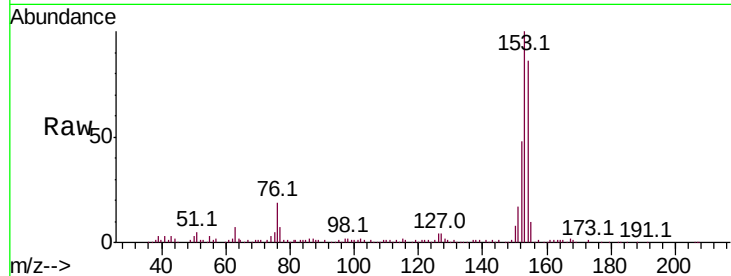
Tot Ion:154 Resp: 114284

Ion Ratio Lower Upper

154 100

153 116.9 88.7 133.1

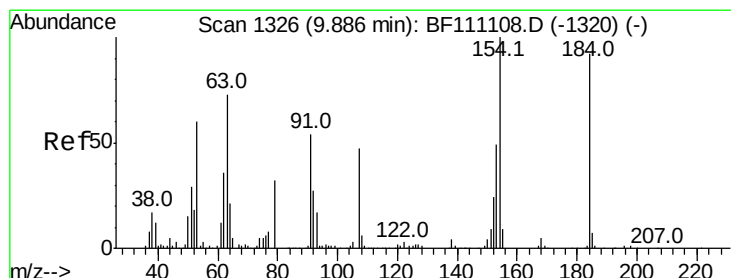
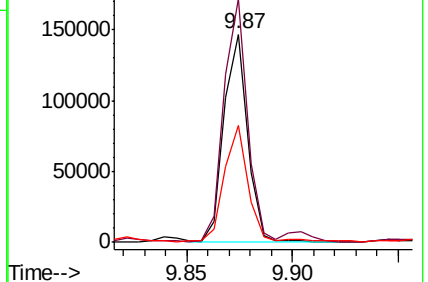
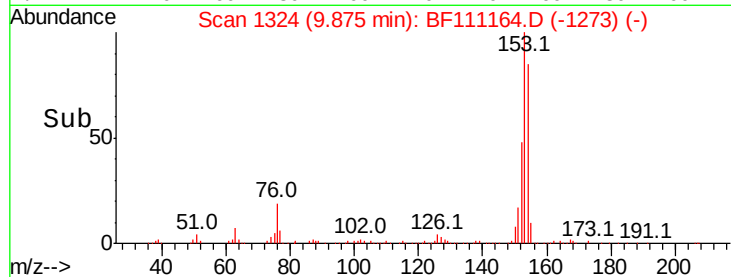
152 56.0 43.8 65.8



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



#54

2,4-Dinitrophenol

Concen: 6.642 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.11 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

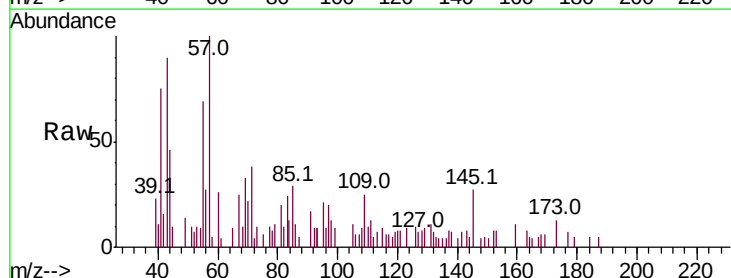
Tgt Ion:184 Resp: 144

Ion Ratio Lower Upper

184 100

63 0.0 64.2 96.4#

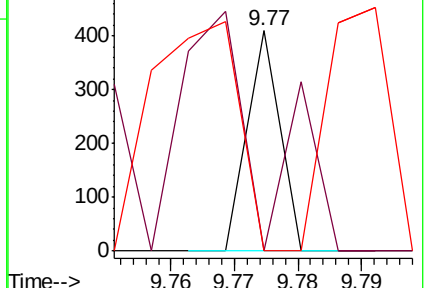
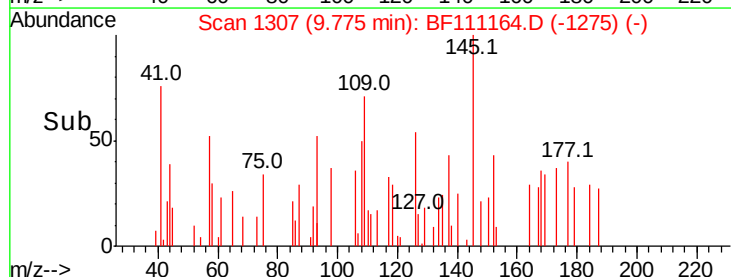
154 0.0 89.5 134.3#

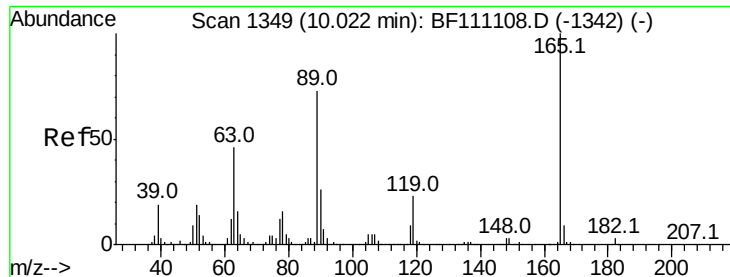


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

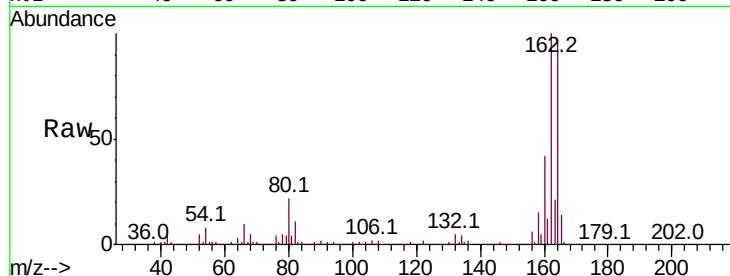




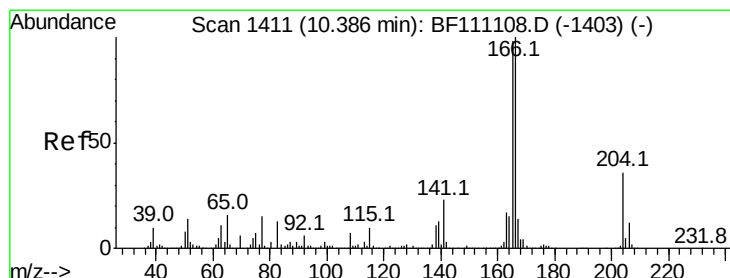
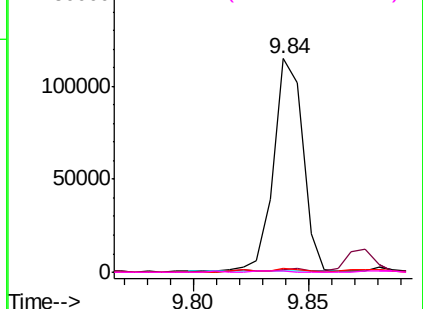
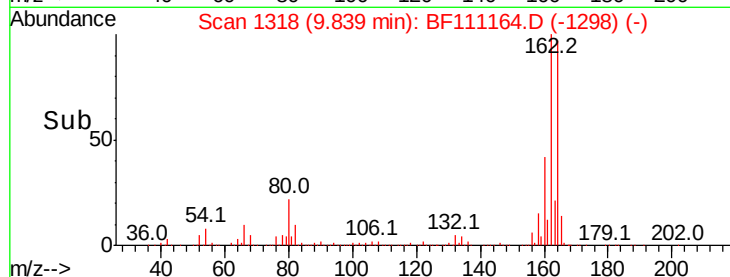
#57
 2,4-Dinitrotoluene
 Concen: 7.020 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.18 min
 Lab File: BF111164.D
 Acq: 7 Dec 2018 3:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	36.7	55.1#
89	1.7	58.4	87.6#
182	0.6	2.1	3.1#

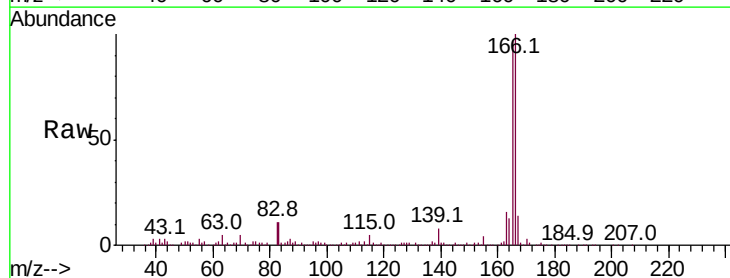


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

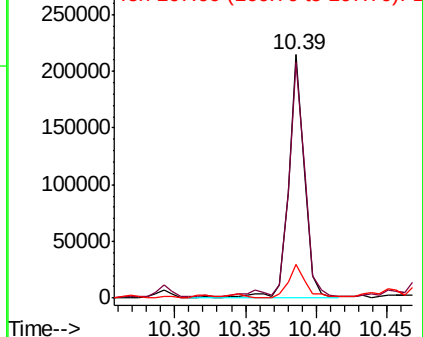
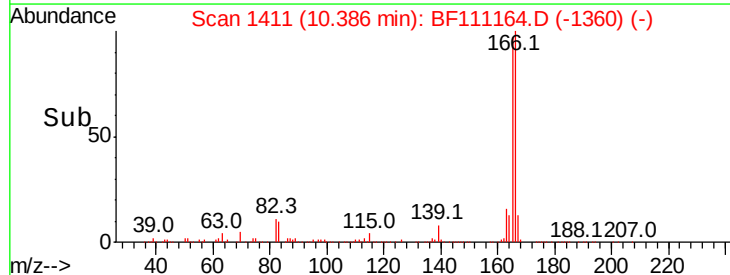


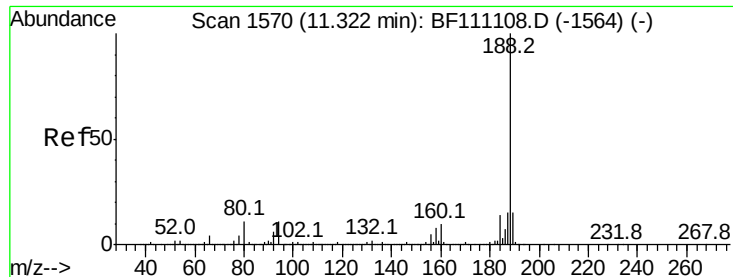
#58
 Fluorene
 Concen: 3.820 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.00 min
 Lab File: BF111164.D
 Acq: 7 Dec 2018 3:11

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.0	78.4	117.6
167	13.7	11.4	17.2



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: 11.32 min Scan# 1570

Delta R.T. -0.00 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

Instrument :

BNA_F

ClientSampleId :

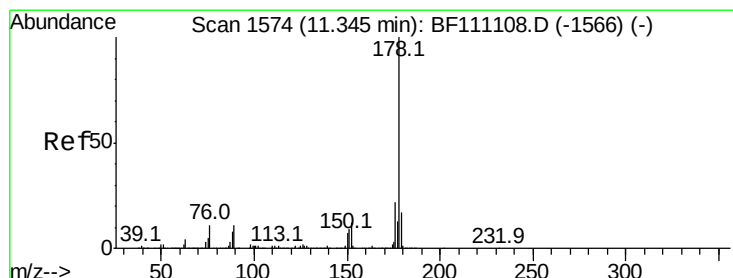
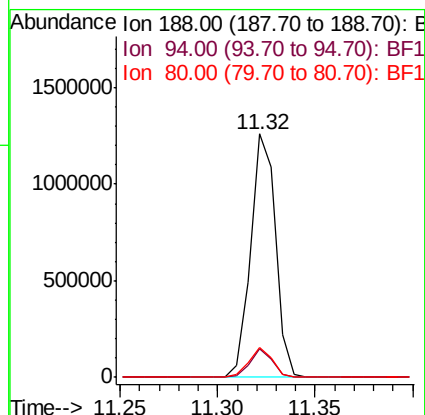
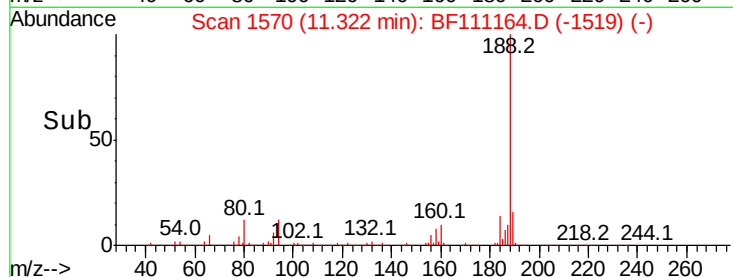
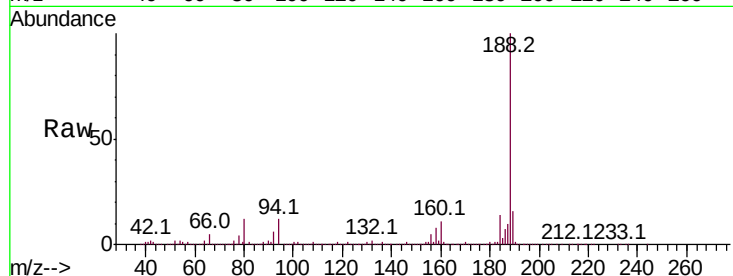
Tot Ion:188 Resp: 1108599

Ion Ratio Lower Upper

188 100

94 12.0 8.5 12.7

80 12.5 9.0 13.6



#71

Phenanthrene

Concen: 19.170 ng

RT: 11.35 min Scan# 1574

Delta R.T. -0.00 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

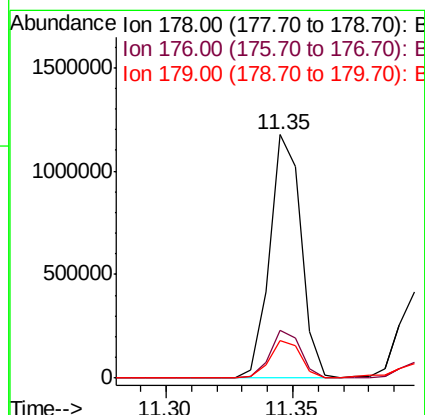
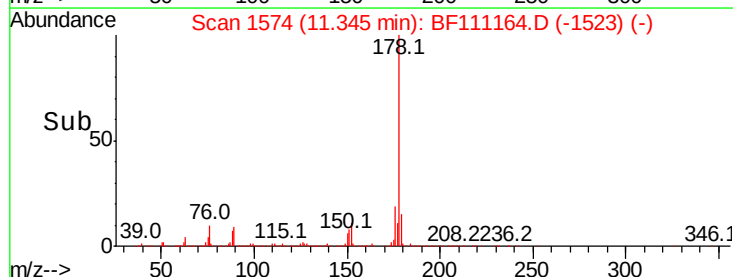
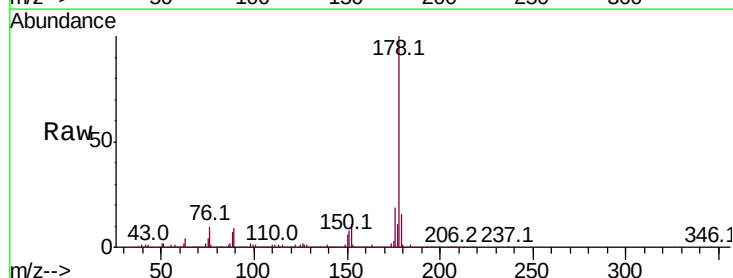
Tgt Ion:178 Resp: 1022259

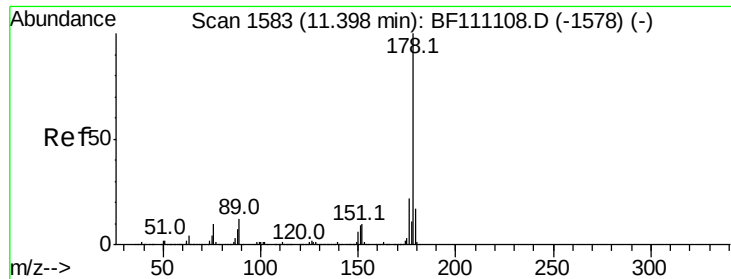
Ion Ratio Lower Upper

178 100

176 19.4 17.7 26.5

179 15.5 14.0 21.0

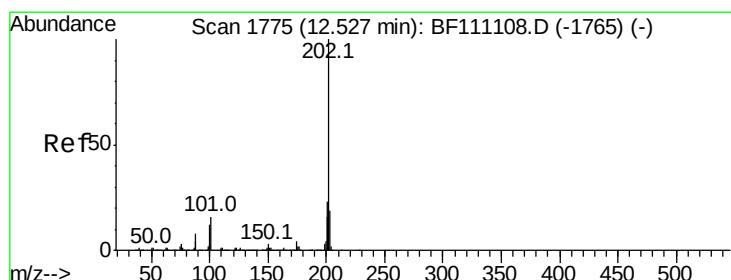
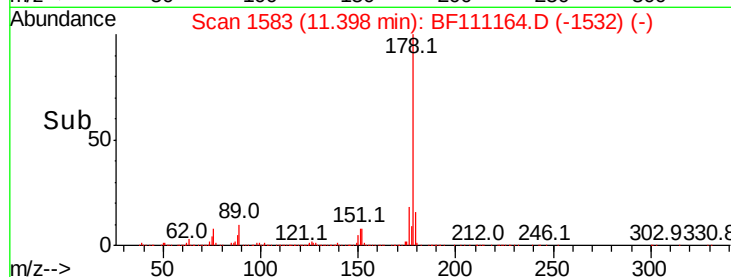
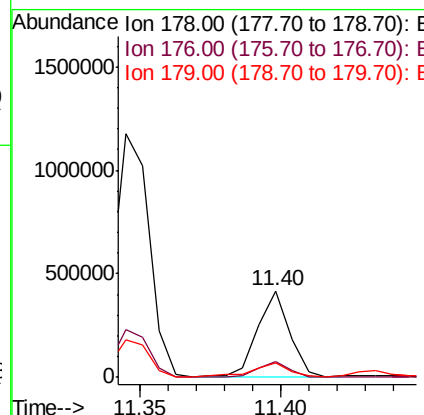
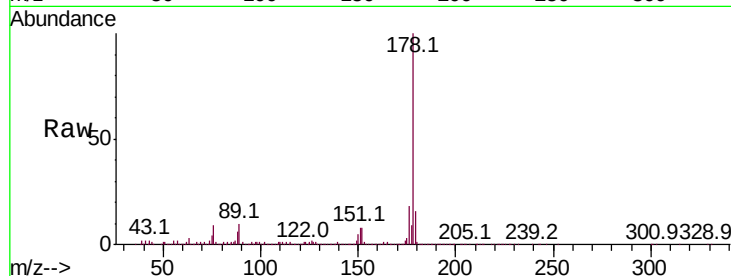




#72
 Anthracene
 Concen: 6.015 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: BF111164.D
 Acq: 7 Dec 2018 3:11

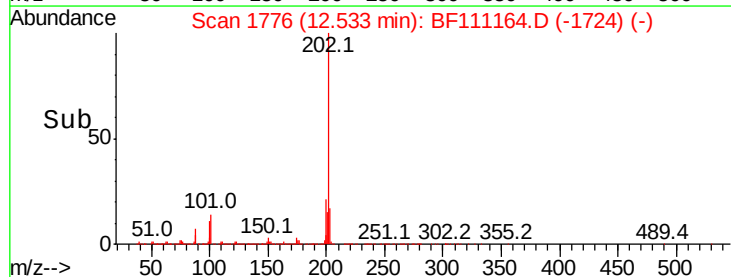
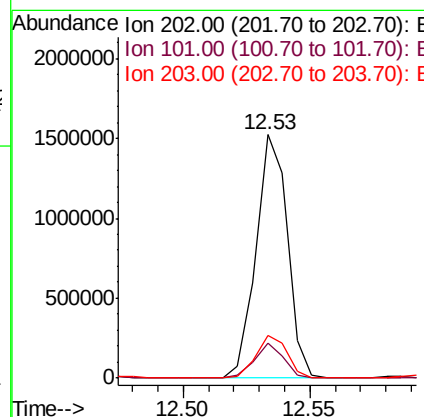
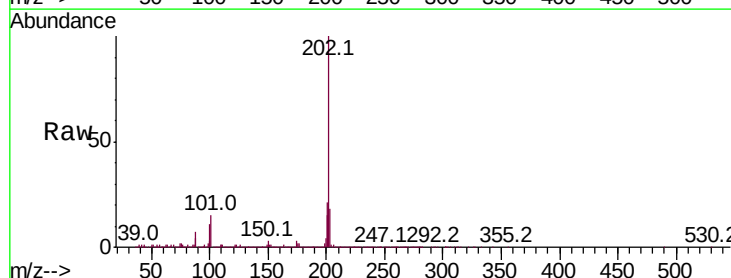
Instrument :
 BNA_F
 ClientSampleId :

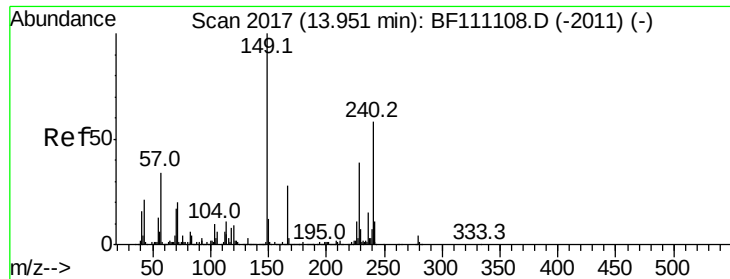
Tot Ion:178 Resp: 323327
 Ion Ratio Lower Upper
 178 100
 176 18.0 17.3 25.9
 179 16.2 13.8 20.8



#75
 Fluoranthene
 Concen: 25.174 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. 0.01 min
 Lab File: BF111164.D
 Acq: 7 Dec 2018 3:11

Tgt Ion:202 Resp: 1313598
 Ion Ratio Lower Upper
 202 100
 101 14.5 0.0 35.8
 203 17.6 0.0 38.6

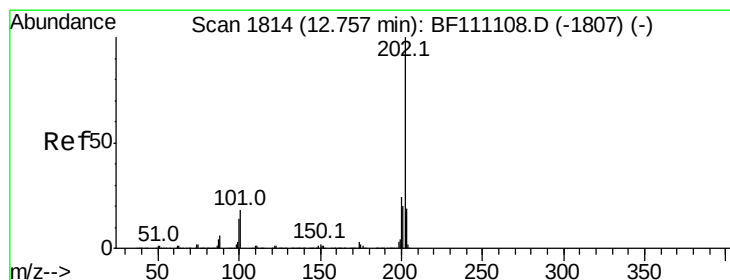
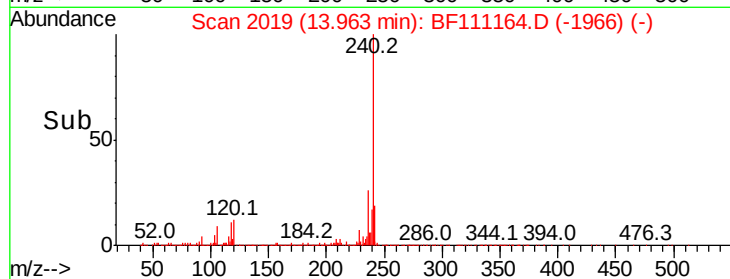
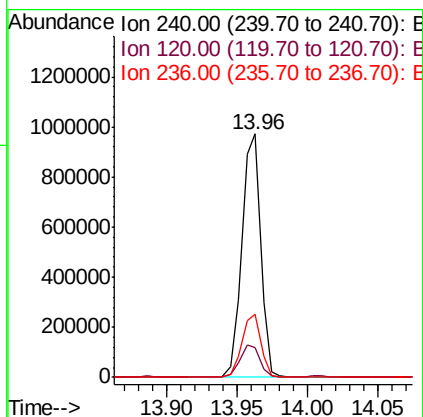
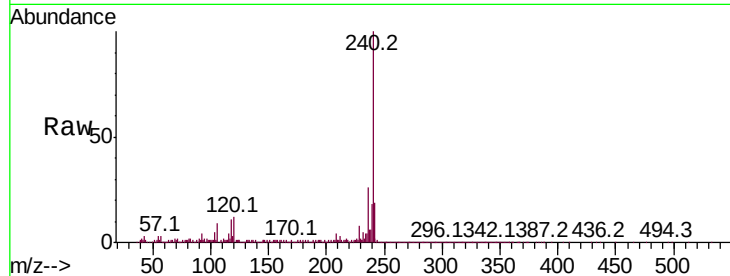




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2019
Delta R.T. 0.01 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

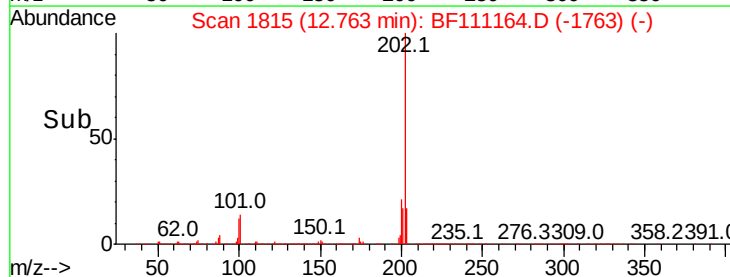
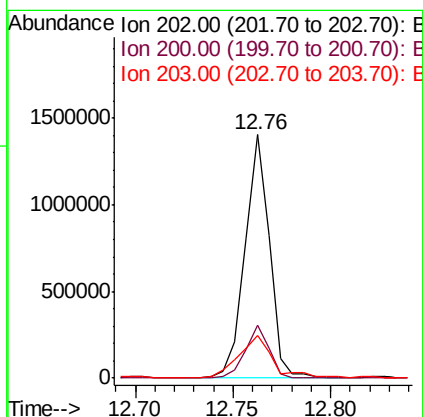
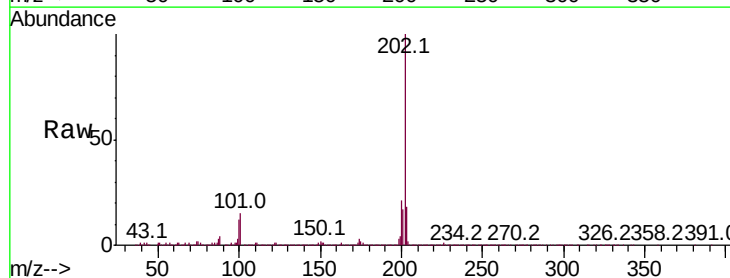
Instrument :
BNA_F
ClientSampleId :

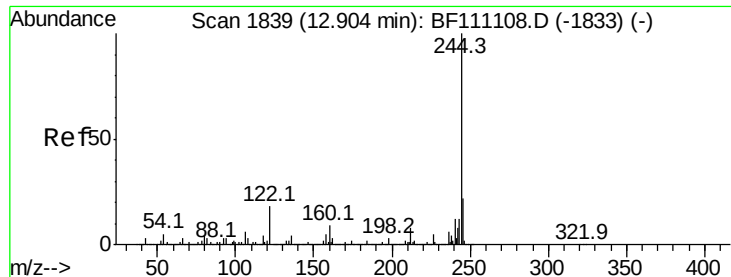
Tot Ion:240 Resp: 897593
Ion Ratio Lower Upper
240 100
120 12.2 12.8 19.2#
236 25.9 21.1 31.7



#78
Pyrene
Concen: 17.311 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Tgt Ion:202 Resp: 1210534
Ion Ratio Lower Upper
202 100
200 21.5 19.3 28.9
203 17.6 15.4 23.2





#79

Terphenyl-d14

Concen: 27.591 ng

RT: 12.91 min Scan# 1840

Delta R.T. 0.01 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

Instrument :

BNA_F

ClientSampleId :

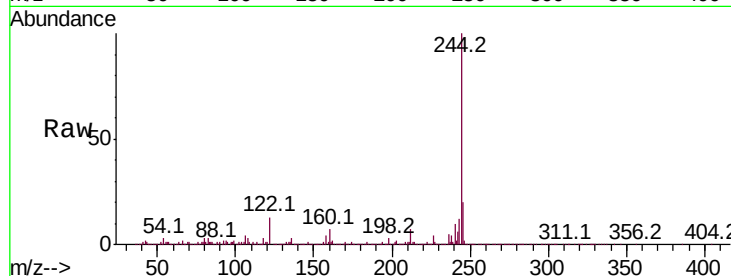
Tot Ion:244 Resp: 1209256

Ion Ratio Lower Upper

244 100

212 6.8 6.6 9.8

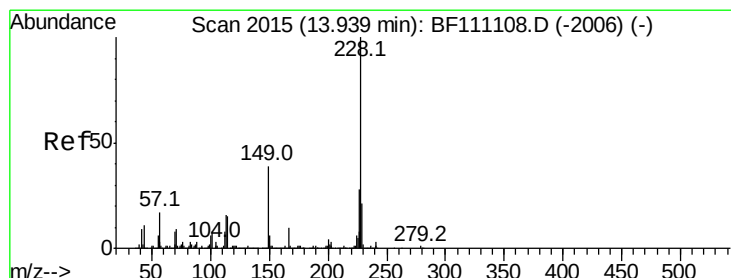
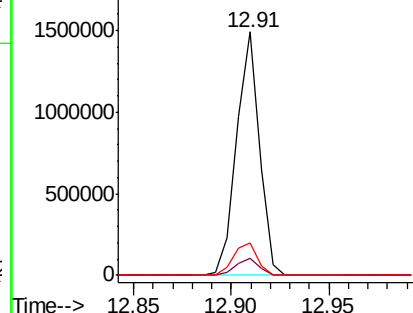
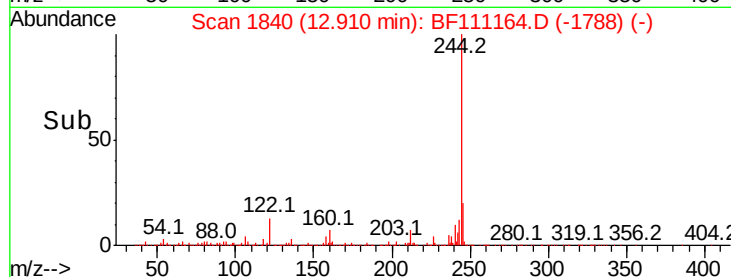
122 13.3 14.2 21.2#



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: 10.031 ng

RT: 13.95 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

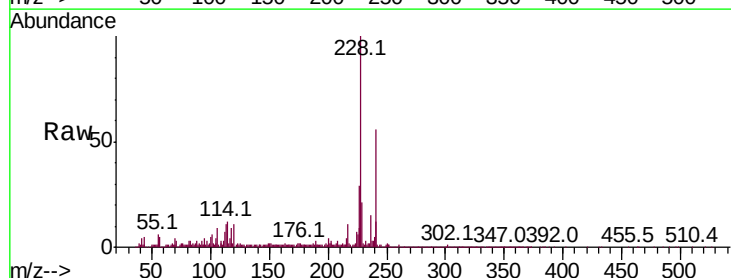
Tgt Ion:228 Resp: 527526

Ion Ratio Lower Upper

228 100

226 29.2 22.6 34.0

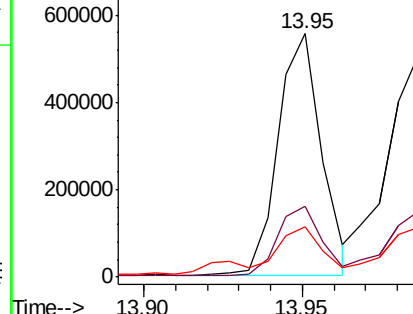
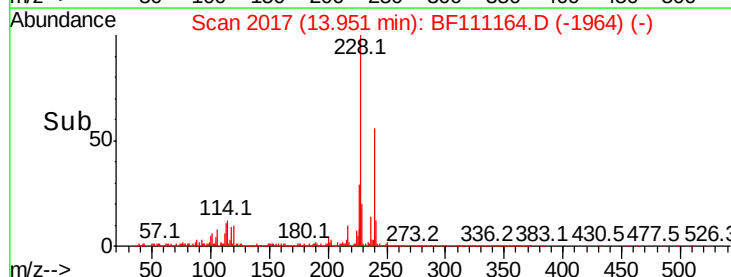
229 20.6 16.7 25.1

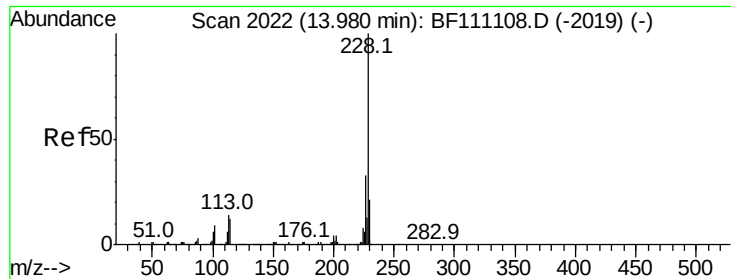


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

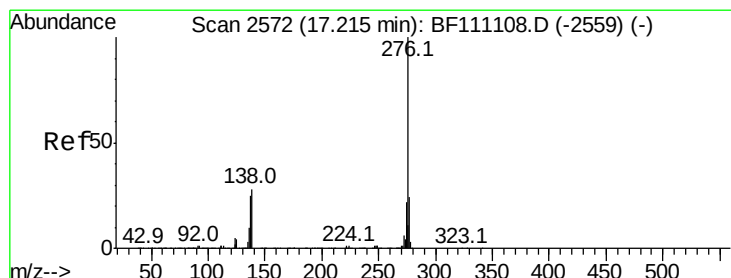
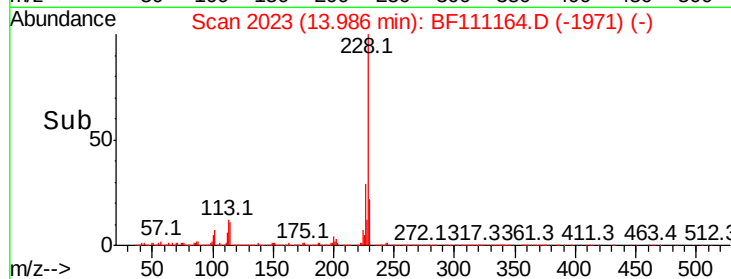
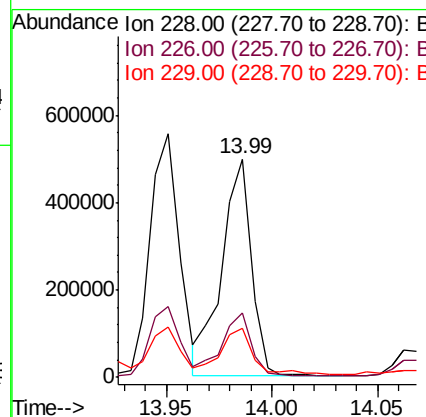
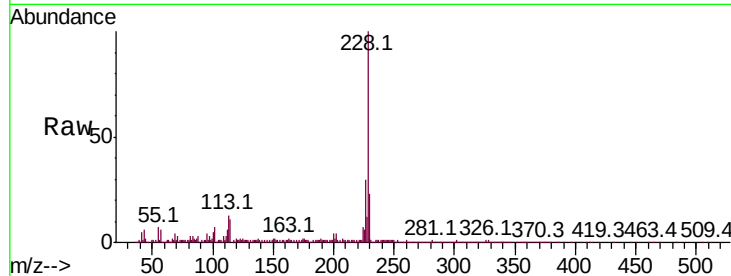




#83
Chrysene
Concen: 9.297 ng
RT: 13.99 min Scan# 2023
Delta R.T. 0.01 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

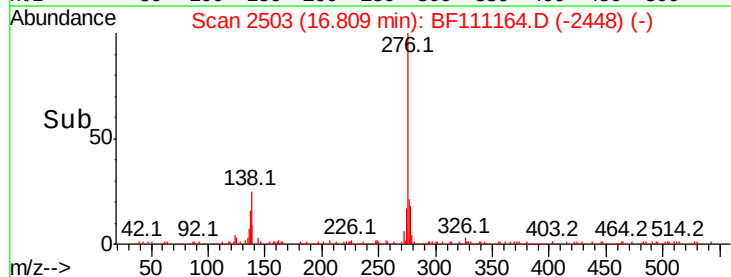
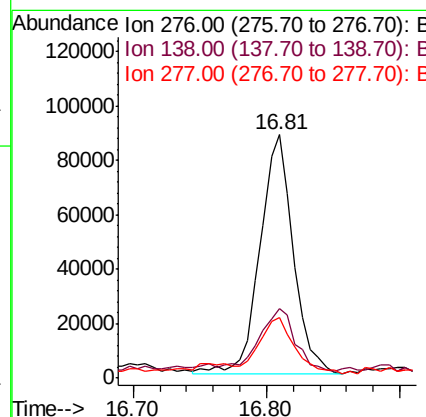
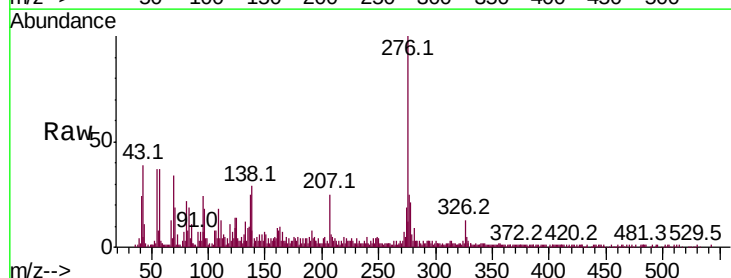
Instrument :
BNA_F
ClientSampleId :

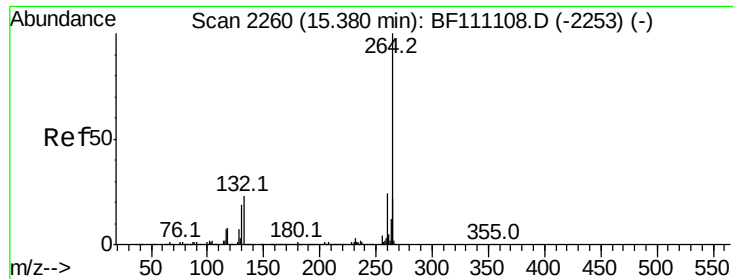
Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	26.2	39.2
229	22.5	16.9	25.3



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.594 ng
RT: 16.81 min Scan# 2503
Delta R.T. 0.02 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.0	20.2	30.4
277	24.8	15.8	23.6





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.40 min Scan# 2263

Delta R.T. 0.02 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

Instrument :

BNA_F

ClientSampleId :

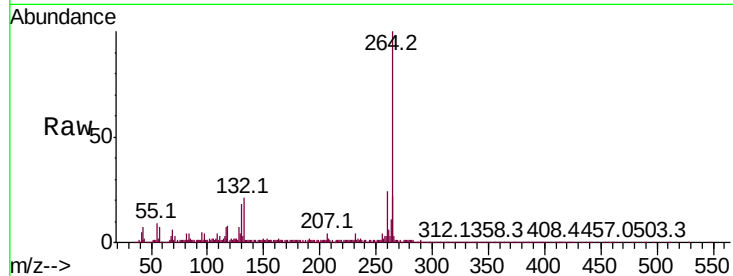
Tot Ion:264 Resp: 632738

Ion Ratio Lower Upper

264 100

260 24.0 19.4 29.0

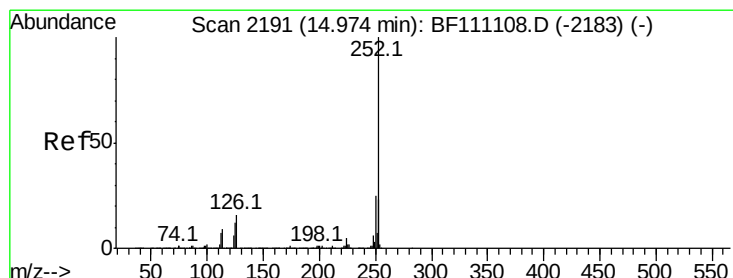
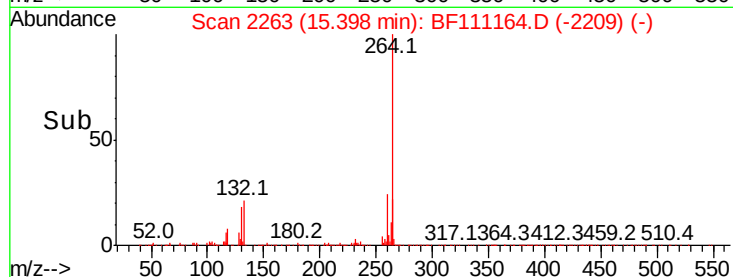
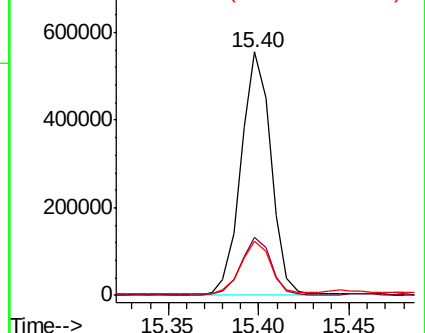
265 22.5 17.4 26.0



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



#88

Benzo(b)fluoranthene

Concen: 14.992 ng

RT: 14.99 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BF111164.D

Acq: 7 Dec 2018 3:11

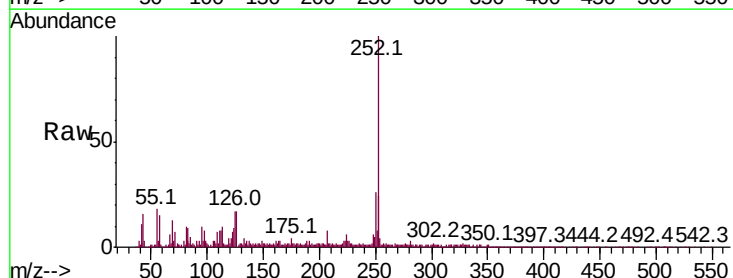
Tgt Ion:252 Resp: 537520

Ion Ratio Lower Upper

252 100

253 23.7 18.5 27.7

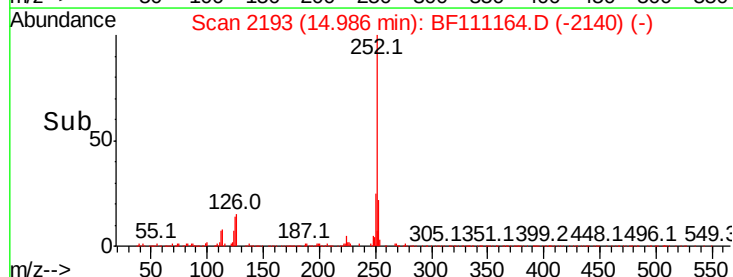
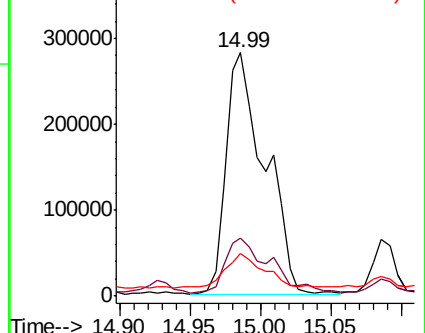
125 17.5 9.9 14.9#

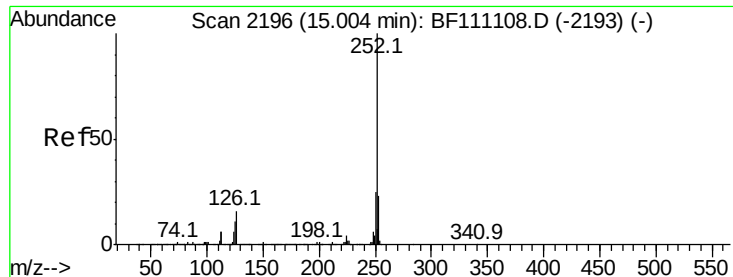


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

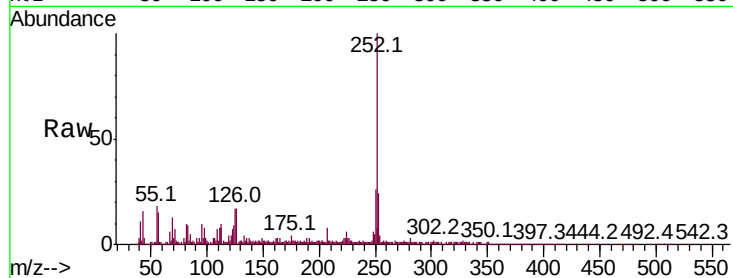




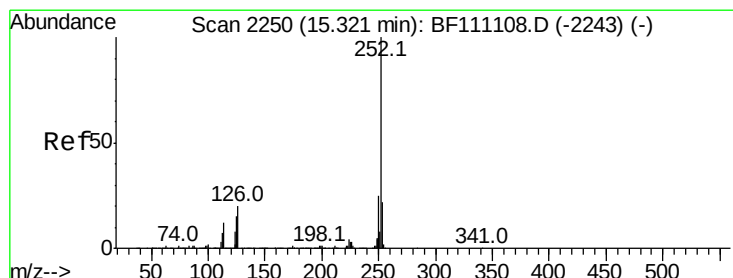
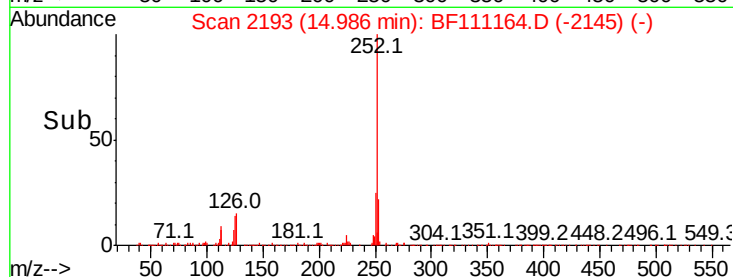
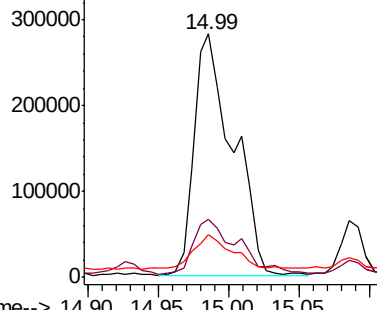
#89
Benzo(k)fluoranthene
Concen: 15.508 ng
RT: 14.99 min Scan# 2193
Delta R.T. -0.02 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.2	27.4
125	17.5	9.9	14.9#

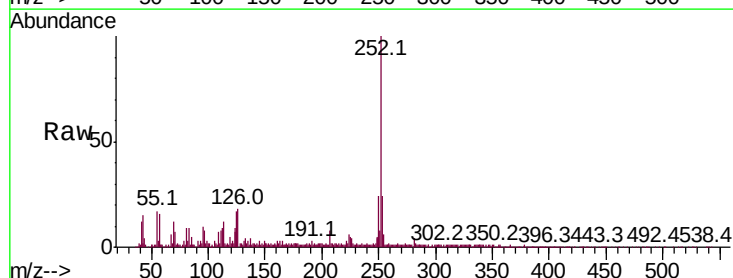


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

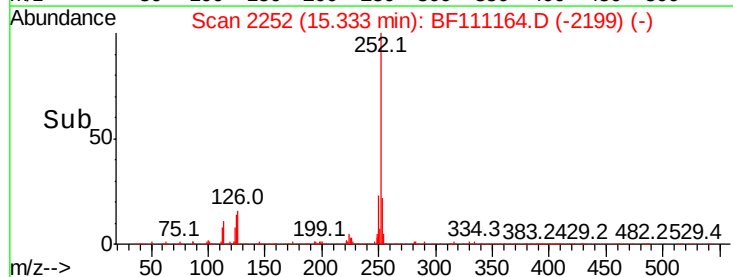
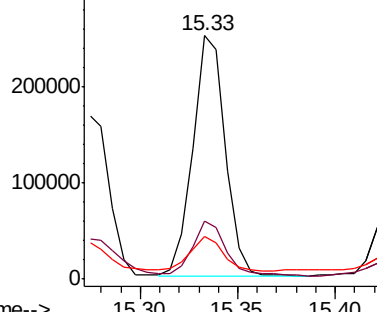


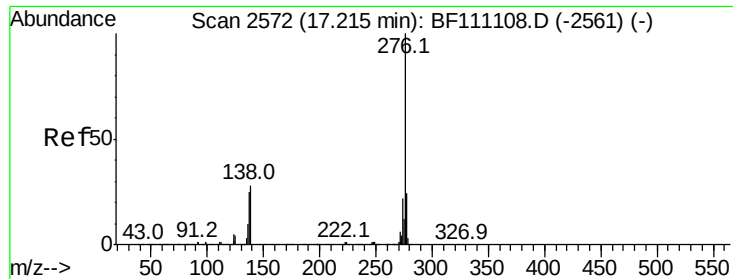
#90
Benzo(a)pyrene
Concen: 8.808 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF111164.D
Acq: 7 Dec 2018 3:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	17.3	12.4	18.6



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





#92
 Benzo(a,h,i)perylene
 Concen: 5.269 ng
 RT: 17.23 min Scan# 2575
 Delta R.T. 0.02 min
 Lab File: BF111164.D
 Acq: 7 Dec 2018 3:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	27.3	19.3	28.9
138	32.0	22.3	33.5

