

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121418\
 Data File : BF111444.D
 Acq On : 15 Dec 2018 3:26
 Operator : JU/SJ
 Sample : J6208-17DL 4X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :

Quant Time: Dec 15 04:50:42 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 14 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	179676	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	906113	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	355362	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	540963	20.00	ng	0.00
76) Chrysene-d12	13.96	240	419069	20.00	ng	0.00
87) Perylene-d12	15.39	264	319041	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.41	112	296358	27.45	ng	0.00
7) Phenol-d6	6.43	99	374955	26.11	ng	-0.01
23) Nitrobenzene-d5	7.35	82	214409	14.09	ng	0.00
42) 2,4,6-Tribromophenol	10.62	330	68489	21.52	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	374796	16.29	ng	0.00
79) Terphenyl-d14	12.90	244	252175	14.13	ng	0.00

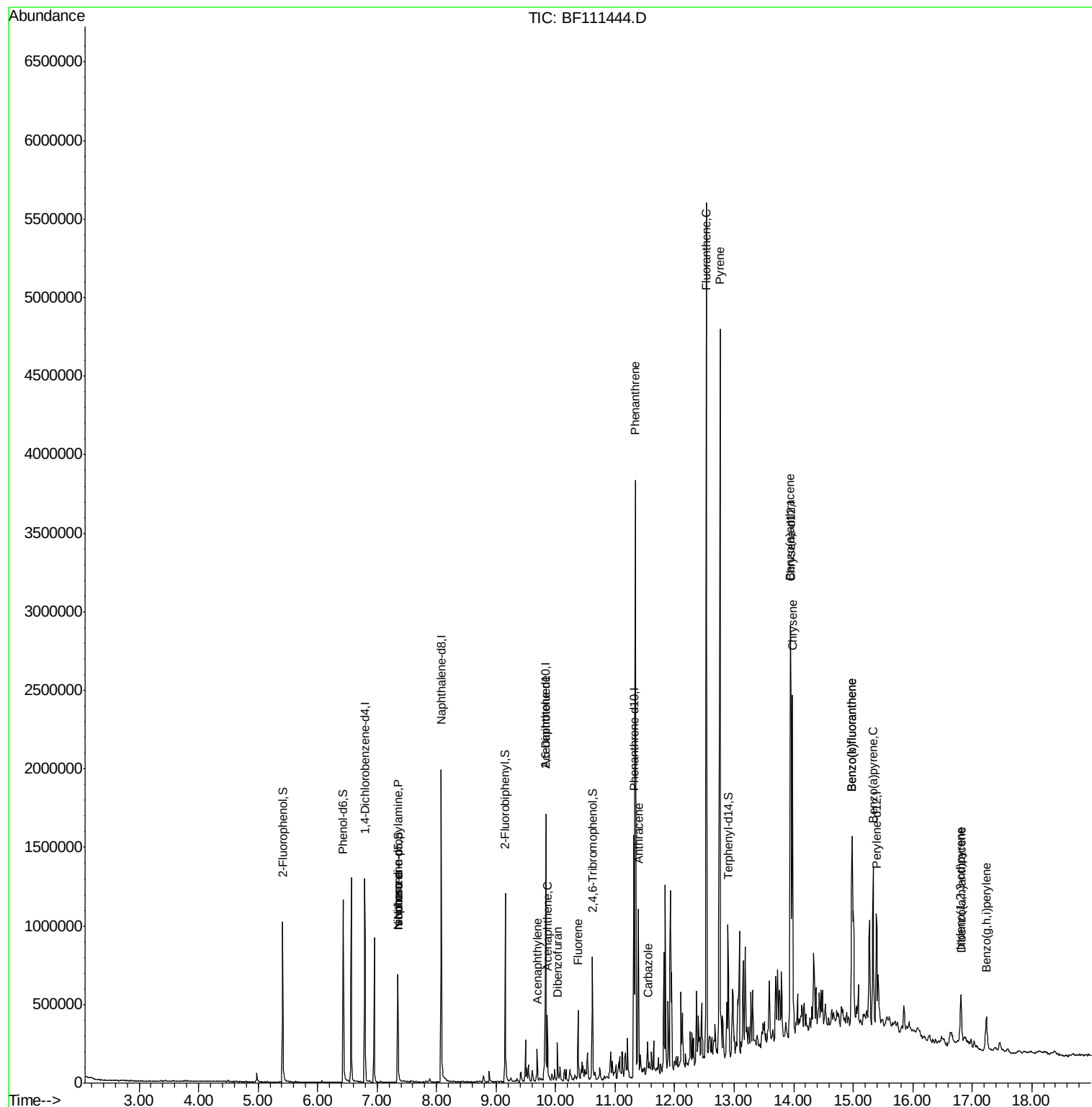
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.35	70	26881	2.837	ng	# 79
25) Isophorone	7.35	82	214405	8.328	ng	# 64
49) Acenaphthylene	9.69	152	77538	2.282	ng	92
51) 2,6-Dinitrotoluene	9.83	165	45703	7.934	ng	# 29
52) Acenaphthene	9.86	154	81353	3.789	ng	99
55) Dibenzofuran	10.03	168	67635	2.170	ng	# 94
58) Fluorene	10.37	166	119977	5.307	ng	99
71) Phenanthrene	11.34	178	1399100	50.192	ng	95
72) Anthracene	11.39	178	422081	14.806	ng	93
73) Carbazole	11.54	167	79474	2.696	ng	# 96
75) Fluoranthene	12.53	202	2131457	78.162	ng	100
78) Pyrene	12.76	202	1976278	66.889	ng	97
81) Benzo(a)anthracene	13.94	228	914501	40.134	ng	99
83) Chrysene	13.98	228	777351	32.384	ng	98
86) Indeno(1,2,3-cd)pyrene	16.81	276	202311	11.678	ng	# 89
88) Benzo(b)fluoranthene	14.98	252	927433	49.861	ng	98
89) Benzo(k)fluoranthene	14.98	252	927433	52.182	ng	97
90) Benzo(a)pyrene	15.33	252	474119	28.266	ng	98
91) Dibenzo(a,h)anthracene	16.82	278	55400	4.187	ng	95
92) Benzo(g,h,i)perylene	17.24	276	163648	12.600	ng	# 93

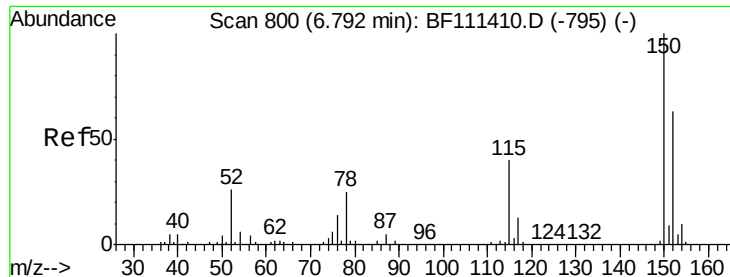
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.79 min Scan# 800

Delta R.T. -0.00 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampleId :

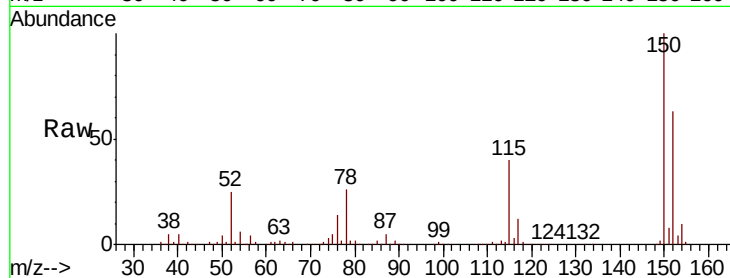
Tgt Ion:152 Resp: 179676

Ion Ratio Lower Upper

152 100

150 159.1 126.6 189.8

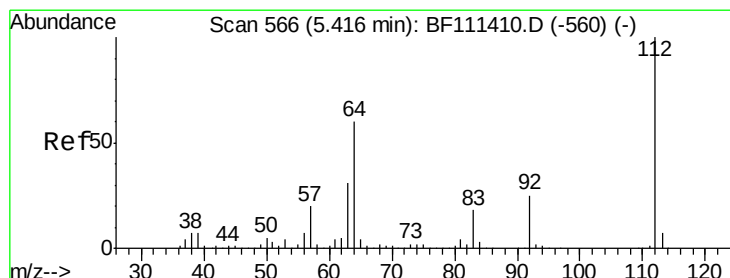
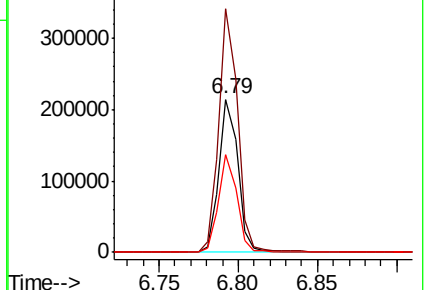
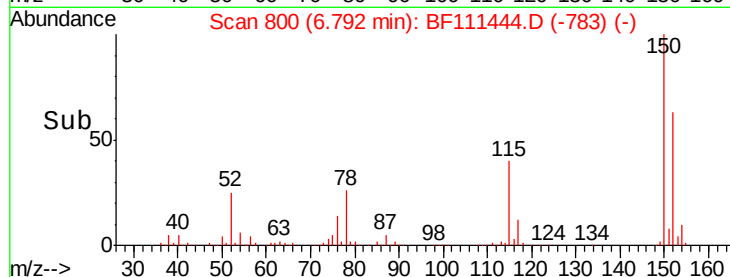
115 63.5 50.7 76.1



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: 27.447 ng

RT: 5.41 min Scan# 565

Delta R.T. -0.00 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

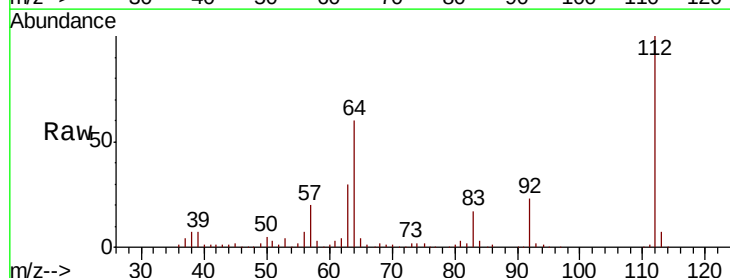
Tgt Ion:112 Resp: 296358

Ion Ratio Lower Upper

112 100

64 59.9 51.8 77.6

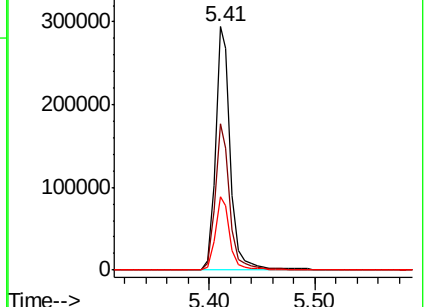
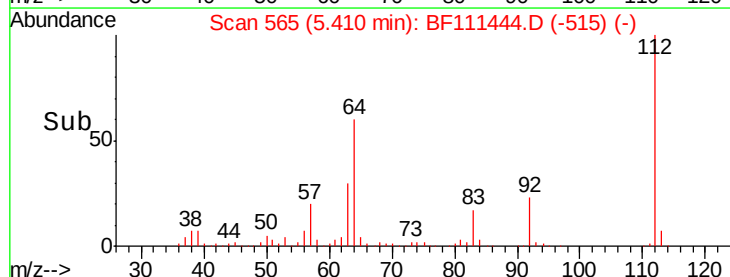
63 30.1 26.8 40.2

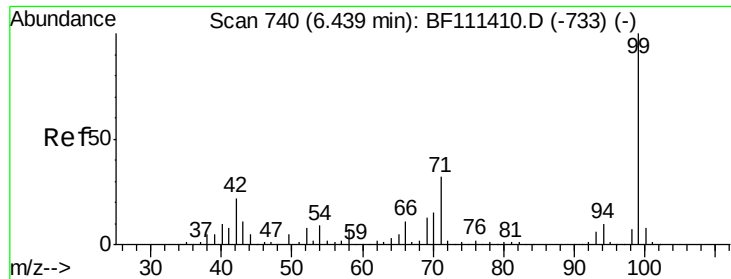


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 26.107 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampleId :

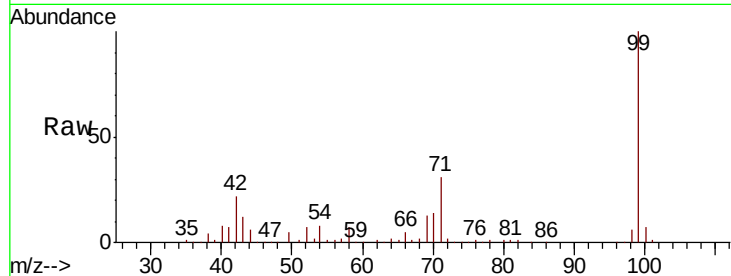
Tgt Ion: 99 Resp: 374955

Ion Ratio Lower Upper

99 100

42 21.9 17.4 26.0

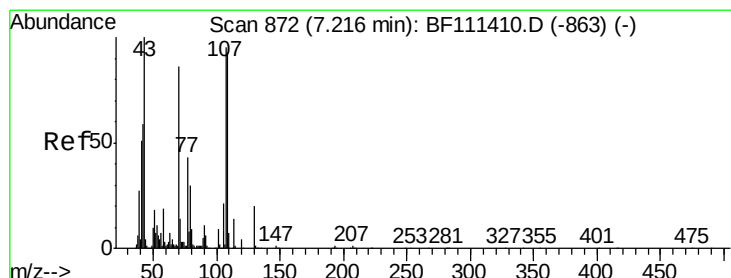
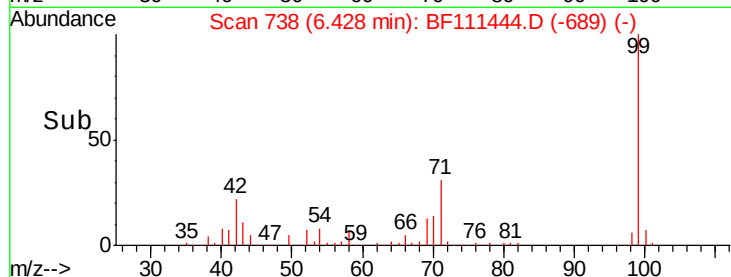
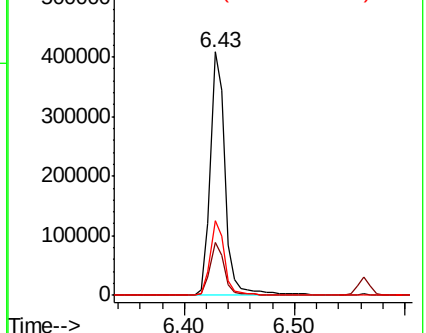
71 30.9 26.1 39.1



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.837 ng

RT: 7.35 min Scan# 895

Delta R.T. 0.14 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Tgt Ion: 70 Resp: 26881

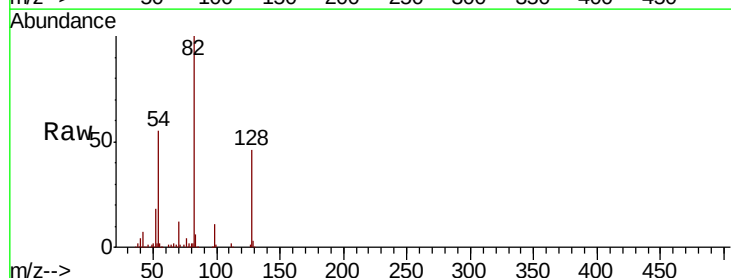
Ion Ratio Lower Upper

70 100

42 55.8 53.2 79.8

101 0.0 8.2 12.4#

130 2.6 18.1 27.1#

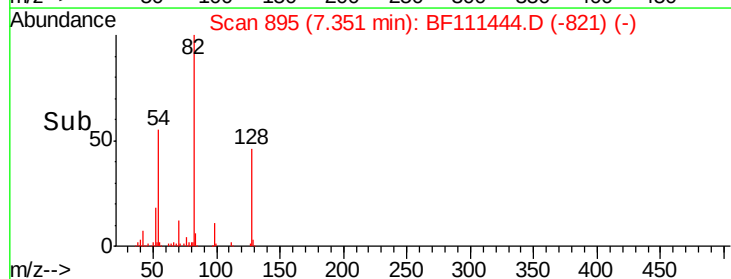
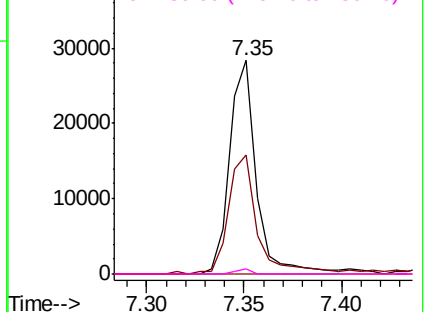


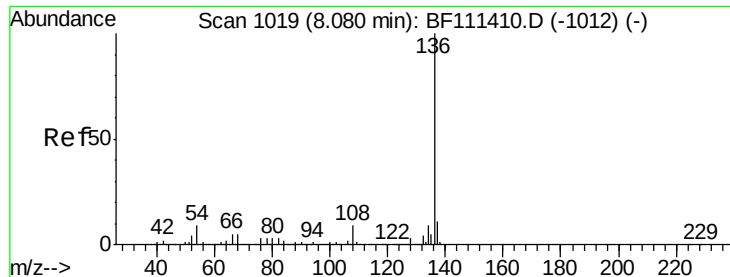
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

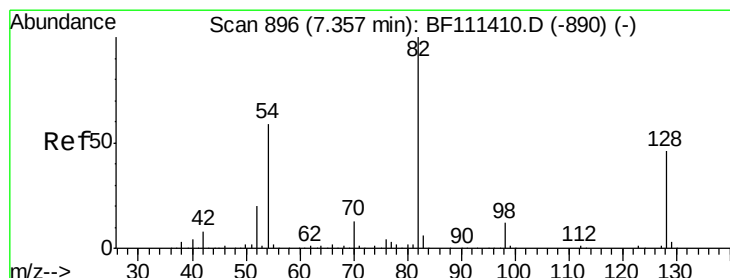
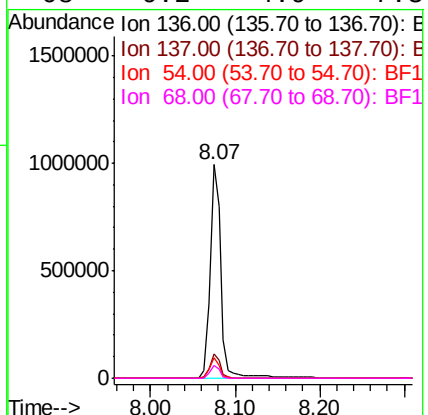
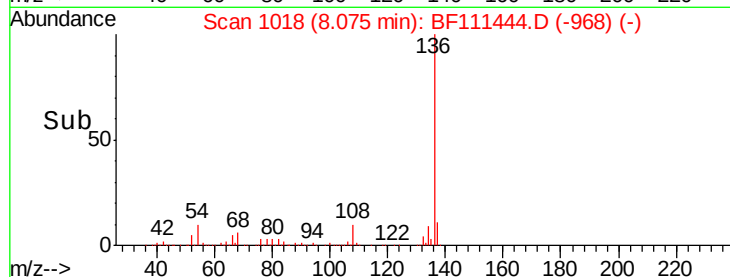
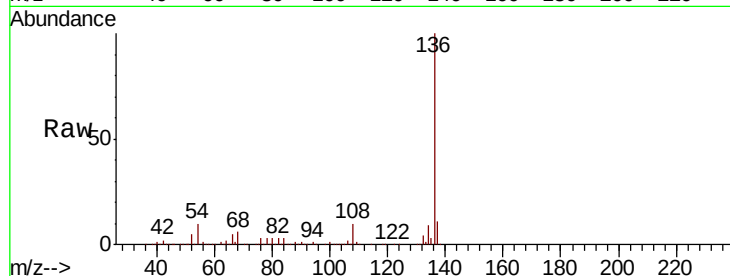




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.07 min Scan# 1018
Delta R.T. -0.01 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

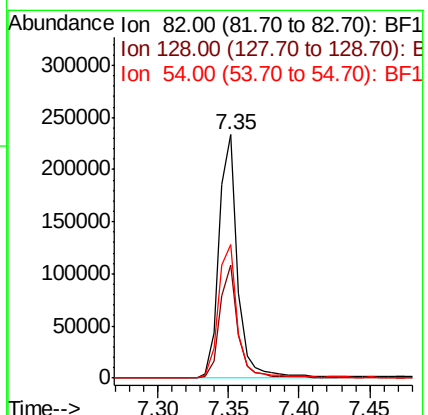
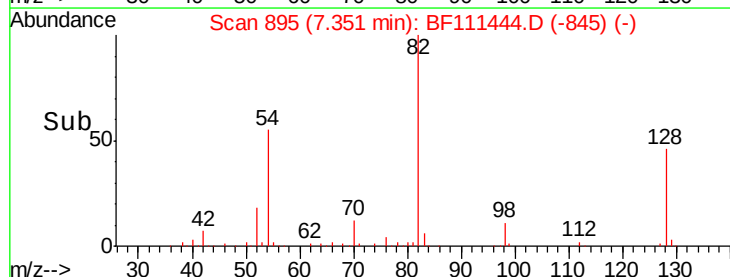
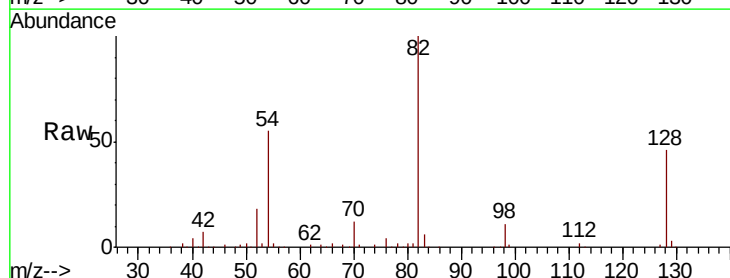
Instrument :
BNA_G
ClientSampleId :

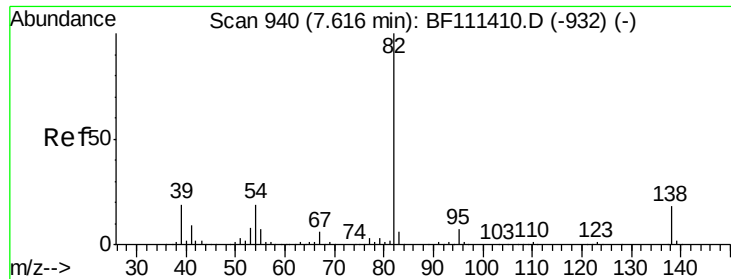
Tgt Ion:	136	Resp:	906113
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.7	7.7	11.5
68	6.2	4.9	7.3



#23
Nitrobenzene-d5
Concen: 14.091 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.01 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

Tgt Ion:	82	Resp:	214409
Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.4	56.2
54	55.0	47.6	71.4





#25

Isophorone

Concen: 8.328 ng

RT: 7.35 min Scan# 895

Delta R.T. -0.26 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampleId :

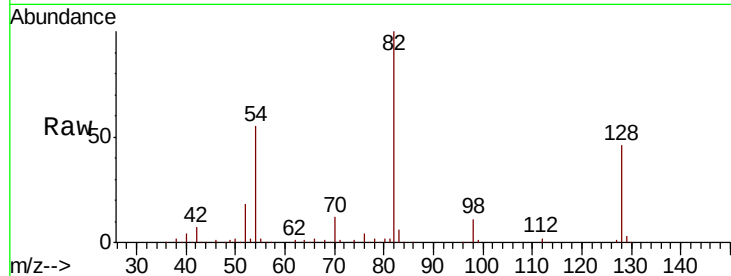
Tgt Ion: 82 Resp: 214405

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

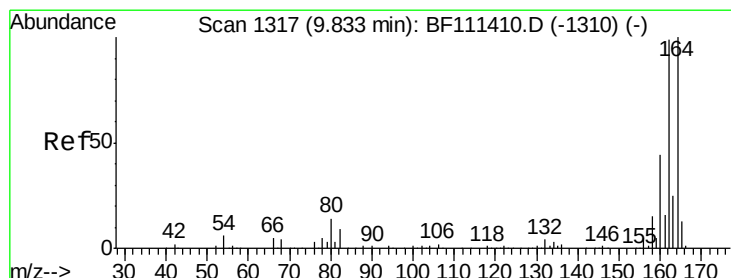
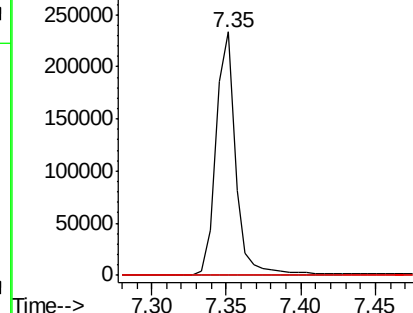
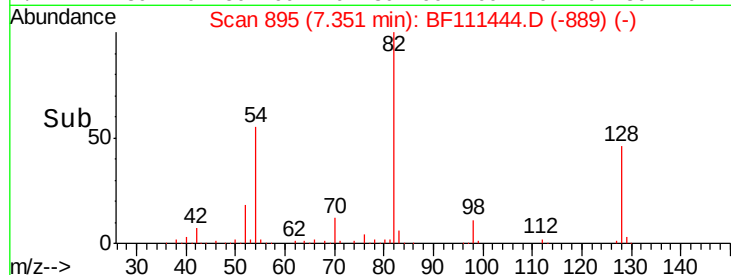
138 0.0 15.1 22.7#



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: 9.83 min Scan# 1317

Delta R.T. -0.00 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

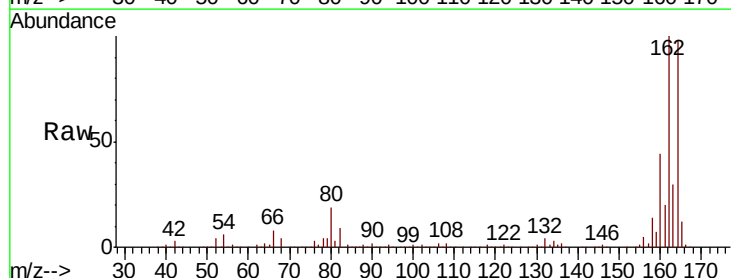
Tgt Ion: 164 Resp: 355362

Ion Ratio Lower Upper

164 100

162 102.4 81.4 122.0

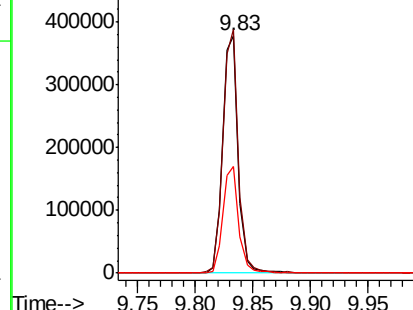
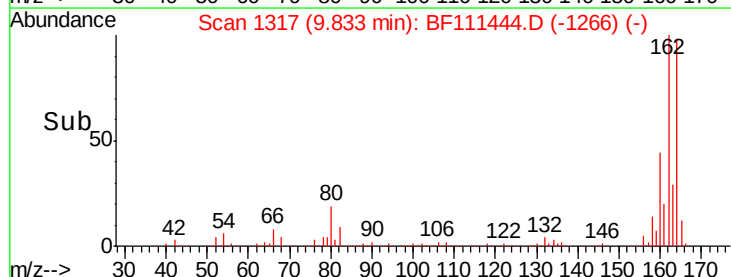
160 44.8 35.7 53.5

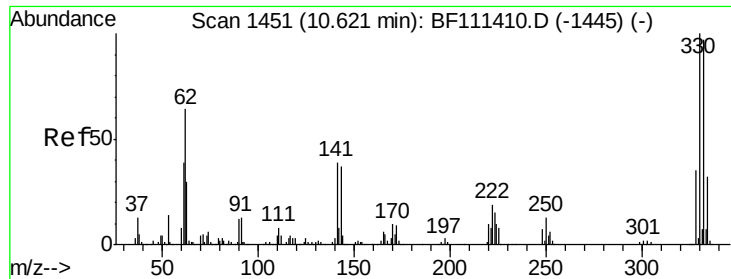


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 21.515 ng

RT: 10.62 min Scan# 1450

Delta R.T. -0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampleId :

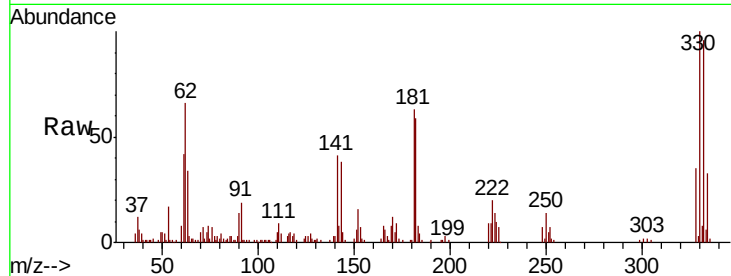
Tgt Ion:330 Resp: 68489

Ion Ratio Lower Upper

330 100

332 98.1 76.0 114.0

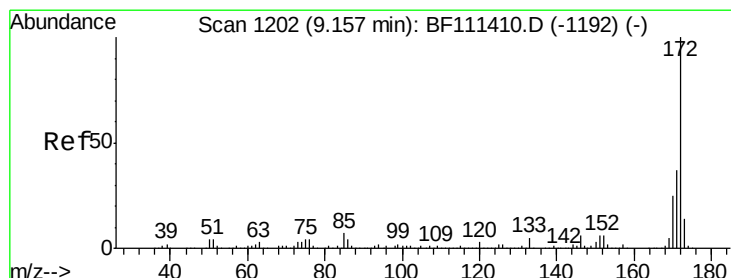
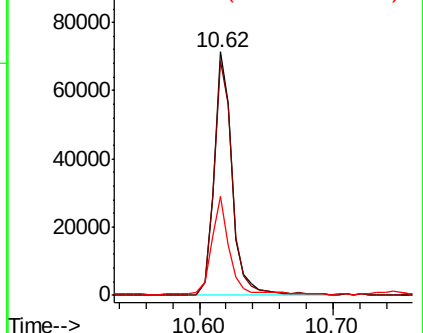
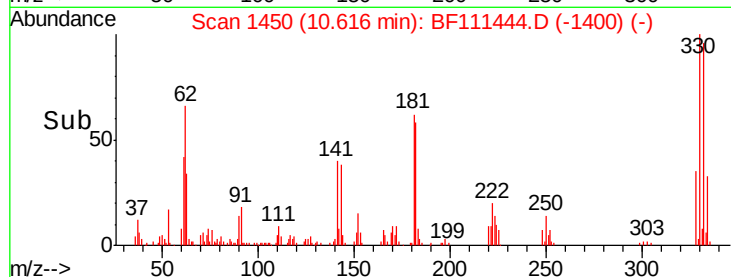
141 42.7 31.0 46.6



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: 16.291 ng

RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

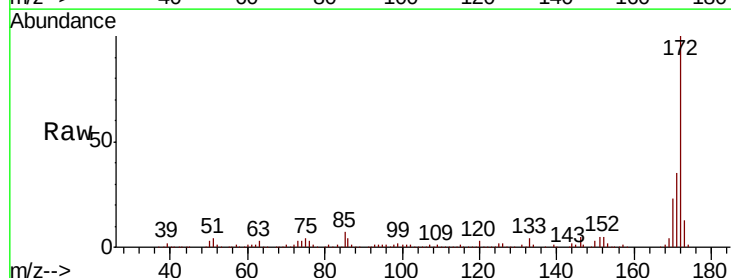
Tgt Ion:172 Resp: 374796

Ion Ratio Lower Upper

172 100

171 35.1 33.0 49.4

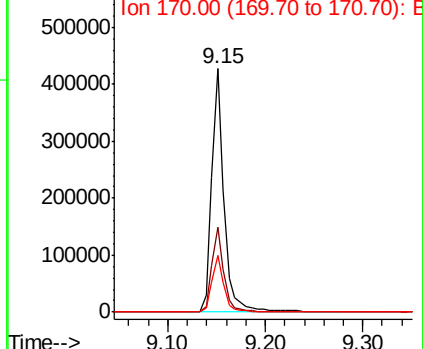
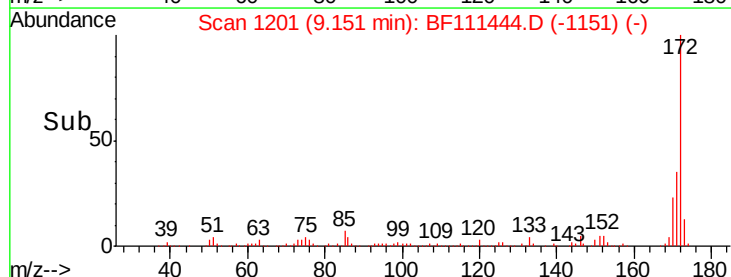
170 23.2 22.3 33.5

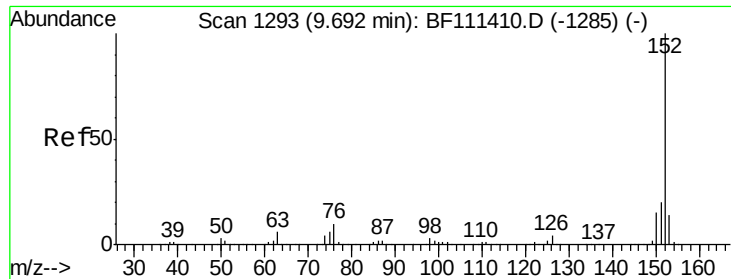


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.282 ng

RT: 9.69 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampled :

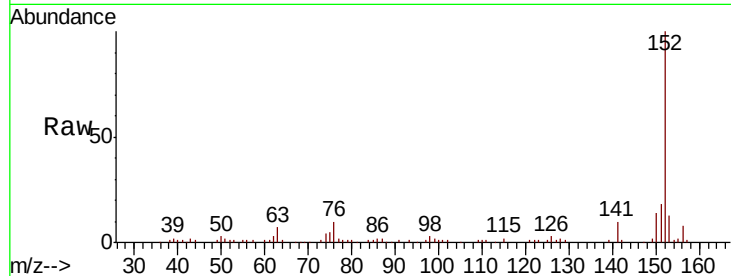
Tgt Ion:152 Resp: 77538

Ion Ratio Lower Upper

152 100

151 18.2 18.0 27.0

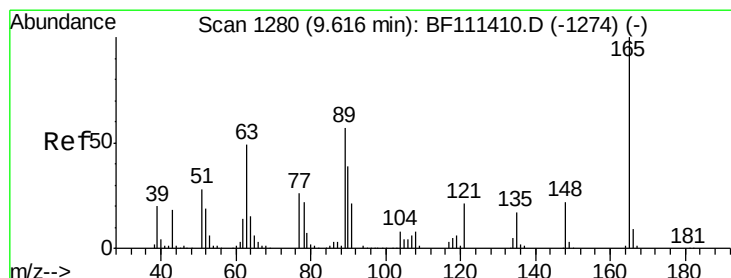
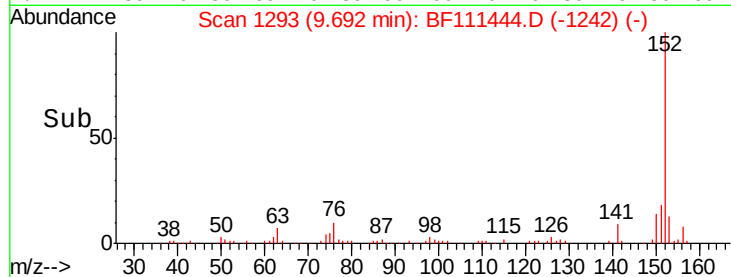
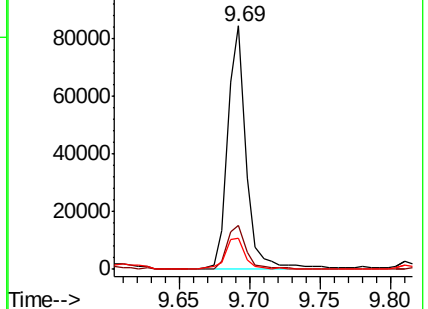
153 12.5 12.3 18.5



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



#51

2,6-Dinitrotoluene

Concen: 7.934 ng

RT: 9.83 min Scan# 1316

Delta R.T. 0.21 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

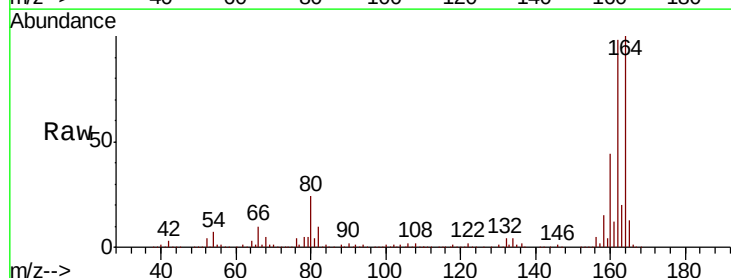
Tgt Ion:165 Resp: 45703

Ion Ratio Lower Upper

165 100

63 1.8 40.5 60.7#

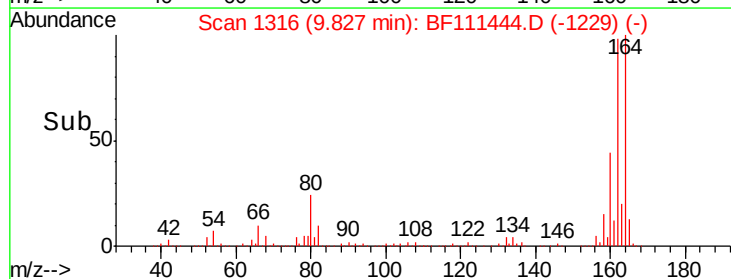
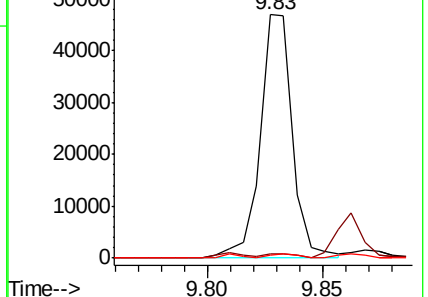
89 1.0 40.0 60.0#

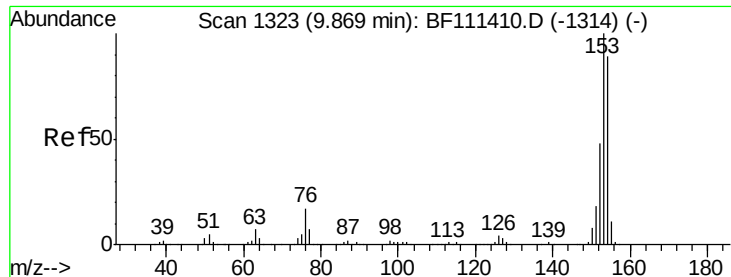


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 3.789 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampled :

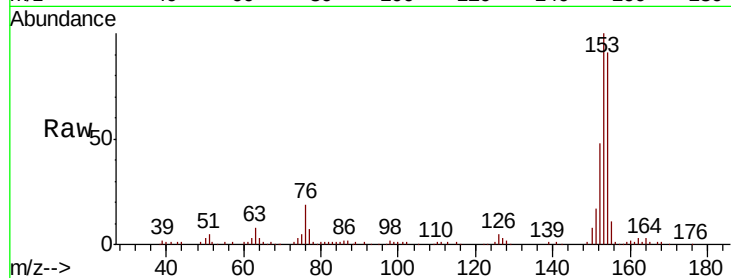
Tgt Ion:154 Resp: 81353

Ion Ratio Lower Upper

154 100

153 110.1 87.8 131.8

152 53.1 43.4 65.2

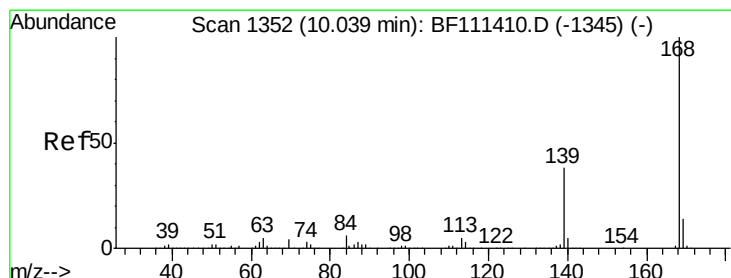
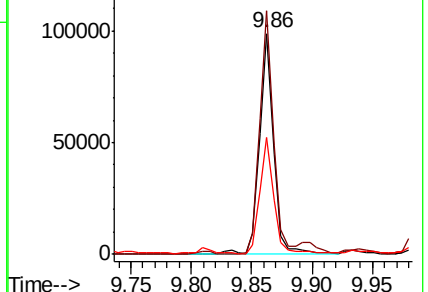
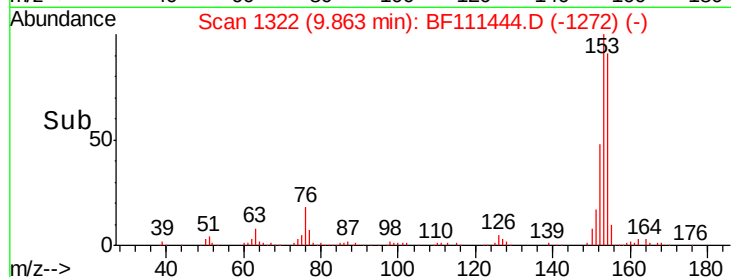


Abundance

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: 2.170 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

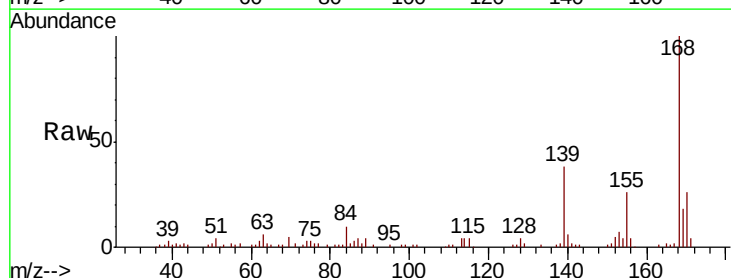
Tgt Ion:168 Resp: 67635

Ion Ratio Lower Upper

168 100

139 37.7 32.6 49.0

169 18.4 11.8 17.6#

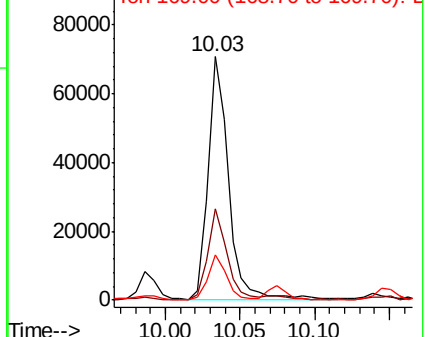
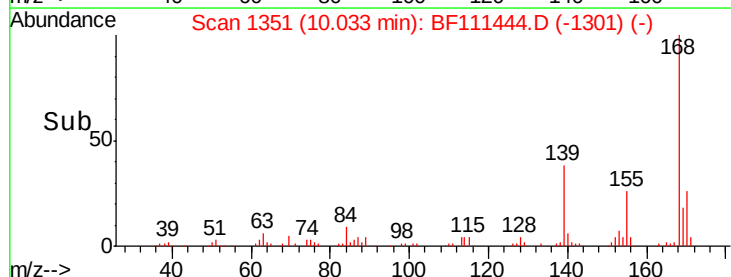


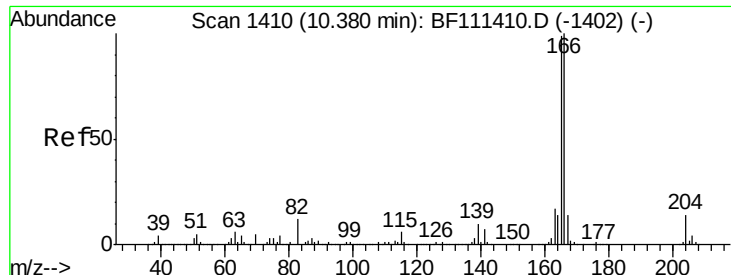
Abundance

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

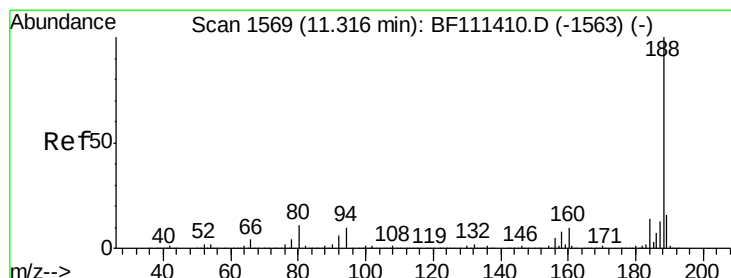
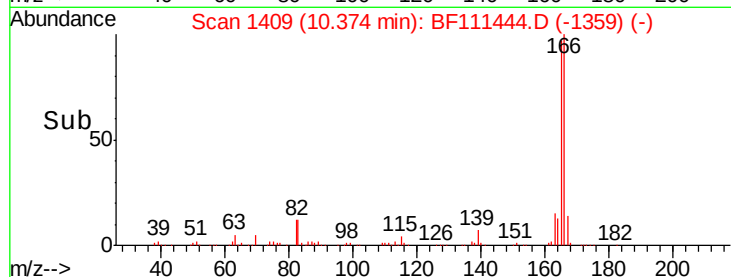
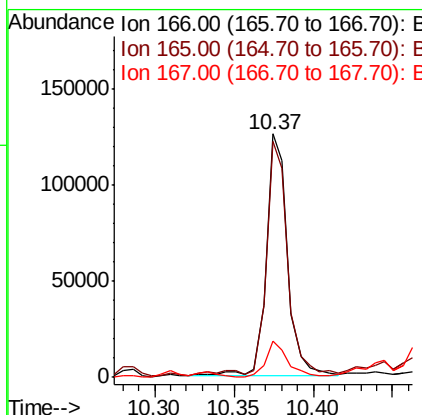
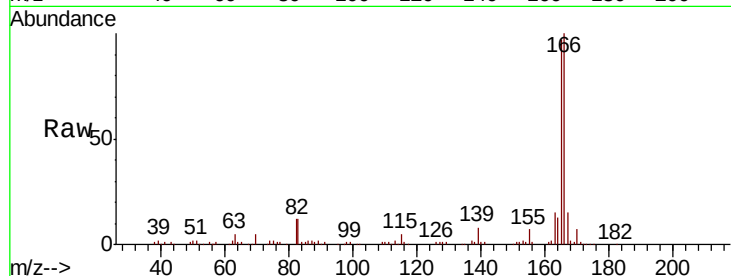




#58
 Fluorene
 Concen: 5.307 ng
 RT: 10.37 min Scan# 1409
 Delta R.T. -0.01 min
 Lab File: BF111444.D
 Acq: 15 Dec 2018 3:26

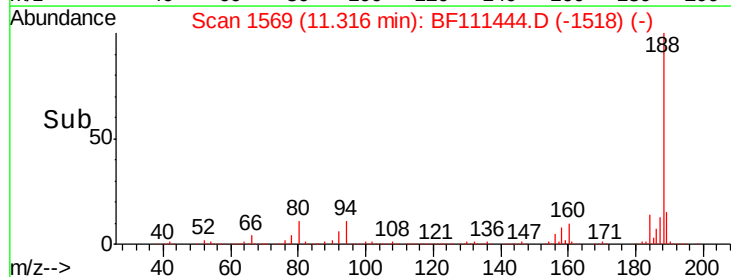
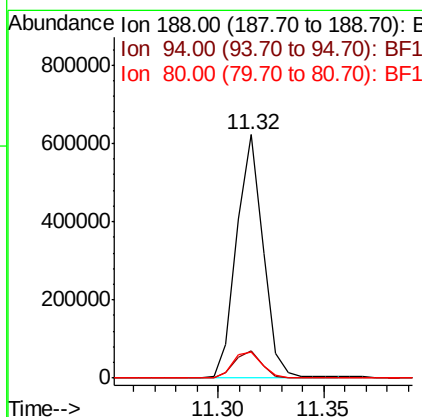
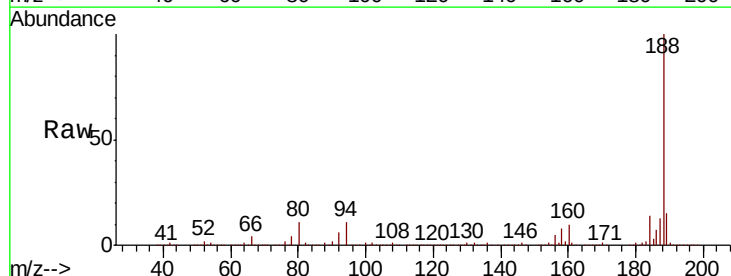
Instrument :
 BNA_G
 ClientSampleId :

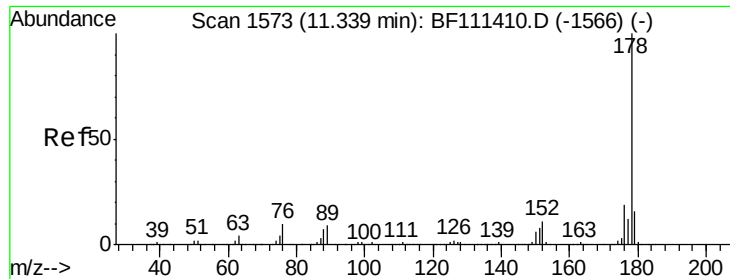
Tgt Ion:166 Resp: 119977
 Ion Ratio Lower Upper
 166 100
 165 96.9 78.4 117.6
 167 14.9 11.2 16.8



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.32 min Scan# 1569
 Delta R.T. -0.00 min
 Lab File: BF111444.D
 Acq: 15 Dec 2018 3:26

Tgt Ion:188 Resp: 540963
 Ion Ratio Lower Upper
 188 100
 94 11.4 9.6 14.4
 80 10.8 9.8 14.6

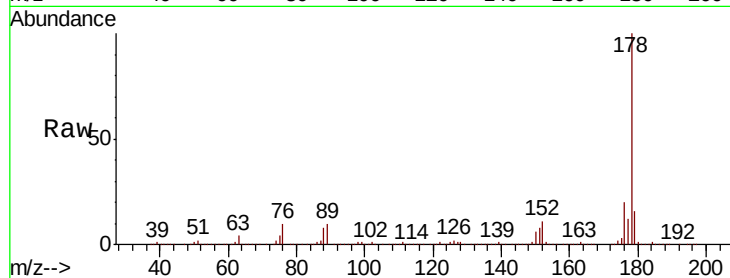




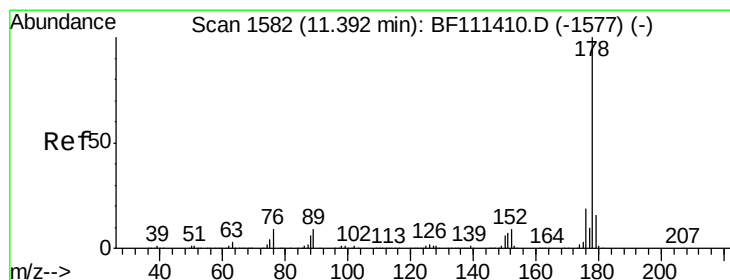
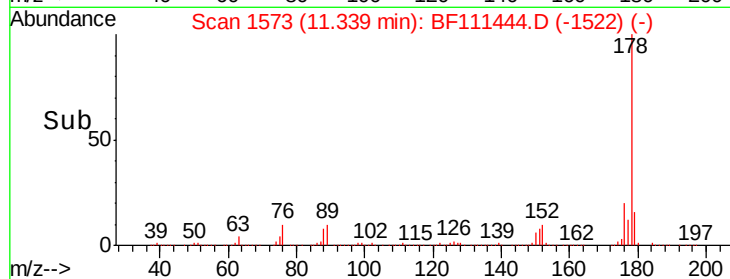
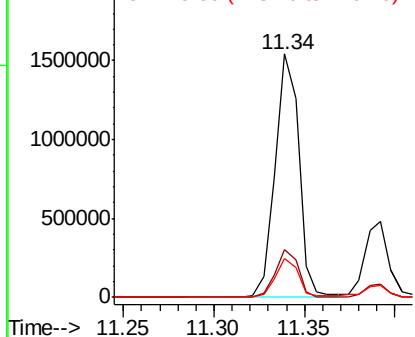
#71
Phenanthrene
Concen: 50.192 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.00 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

Instrument :
BNA_G
ClientSampleId :

Tgt Ion:178 Resp: 1399100
Ion Ratio Lower Upper
178 100
176 19.8 18.1 27.1
179 15.9 14.0 21.0

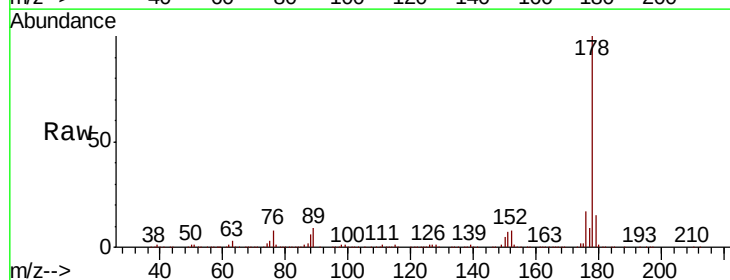


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

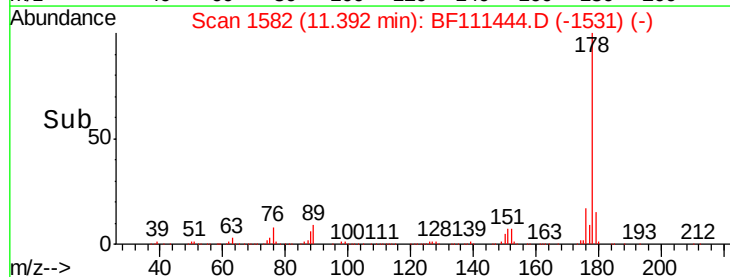
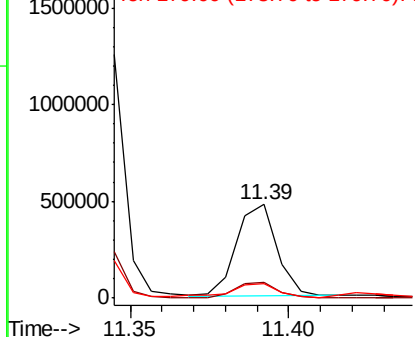


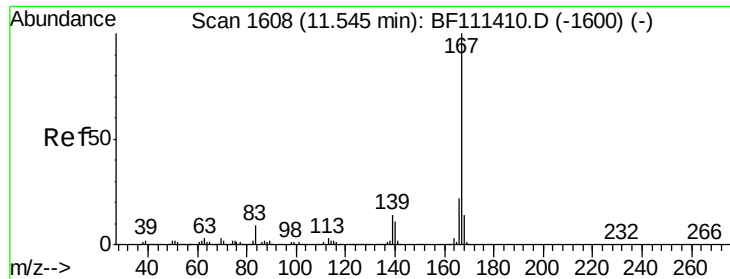
#72
Anthracene
Concen: 14.806 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.00 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

Tgt Ion:178 Resp: 422081
Ion Ratio Lower Upper
178 100
176 17.3 17.2 25.8
179 15.1 13.8 20.8



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

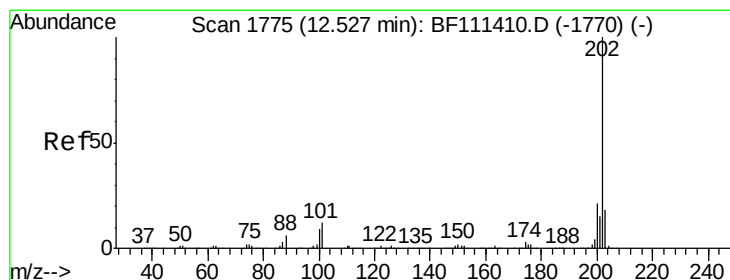
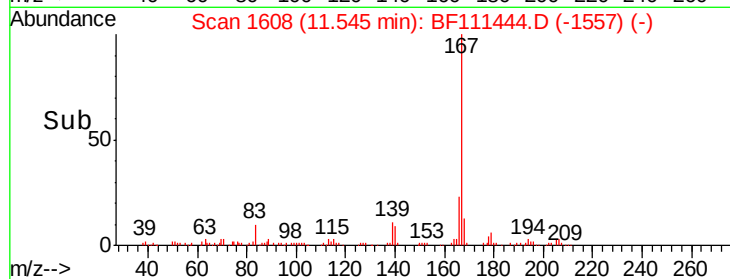
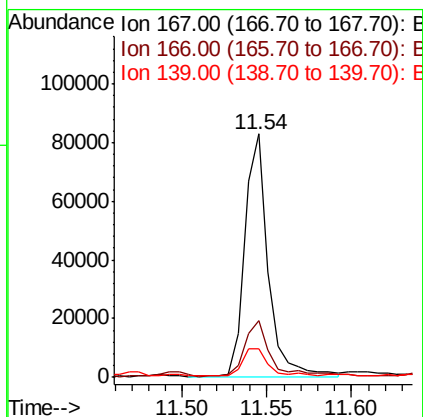
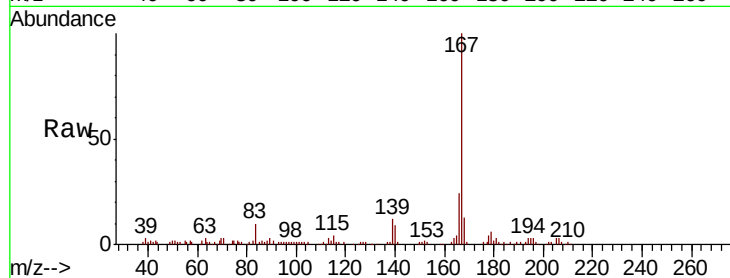




#73
 Carbazole
 Concen: 2.696 ng
 RT: 11.54 min Scan# 1608
 Delta R.T. -0.00 min
 Lab File: BF111444.D
 Acq: 15 Dec 2018 3:26

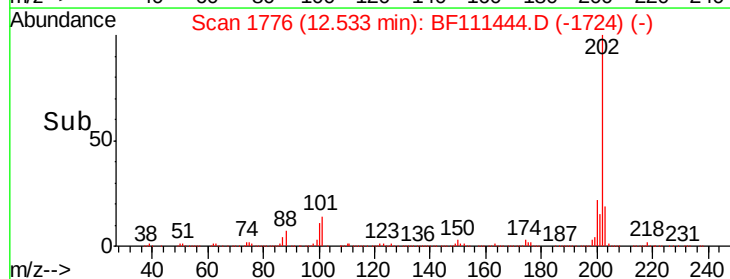
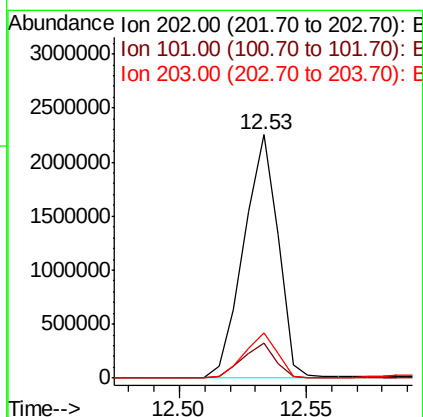
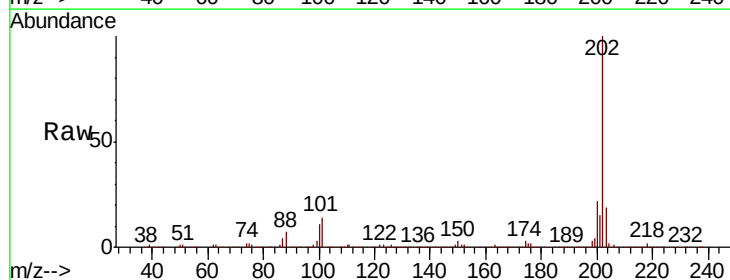
Instrument :
 BNA_G
 ClientSampleId :

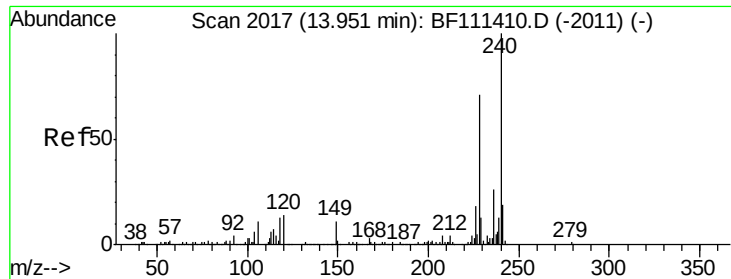
Tgt Ion:167 Resp: 79474
 Ion Ratio Lower Upper
 167 100
 166 23.6 19.3 28.9
 139 11.6 11.9 17.9#



#75
 Fluoranthene
 Concen: 78.162 ng
 RT: 12.53 min Scan# 1776
 Delta R.T. 0.01 min
 Lab File: BF111444.D
 Acq: 15 Dec 2018 3:26

Tgt Ion:202 Resp: 2131457
 Ion Ratio Lower Upper
 202 100
 101 14.2 0.0 33.8
 203 18.6 0.0 38.6

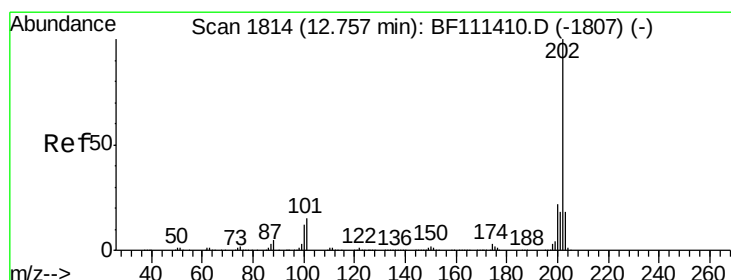
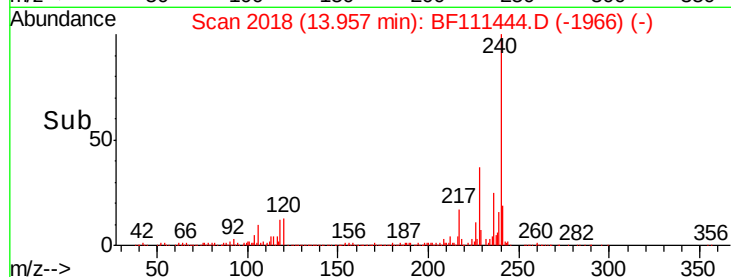
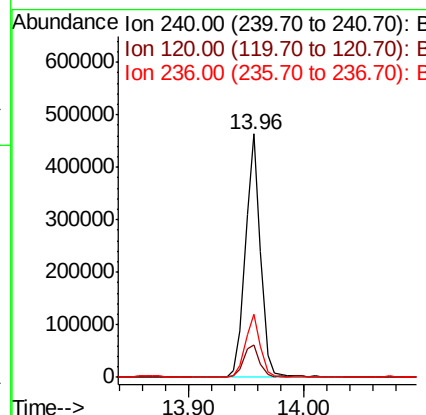
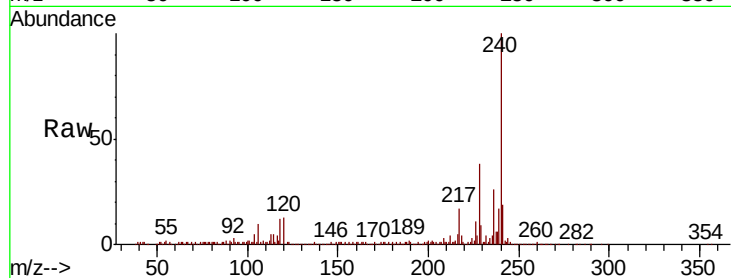




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.96 min Scan# 2018
Delta R.T. 0.01 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

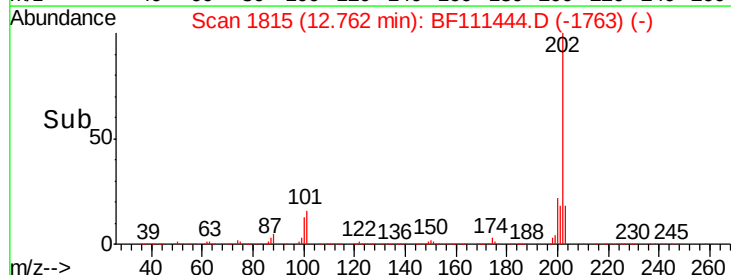
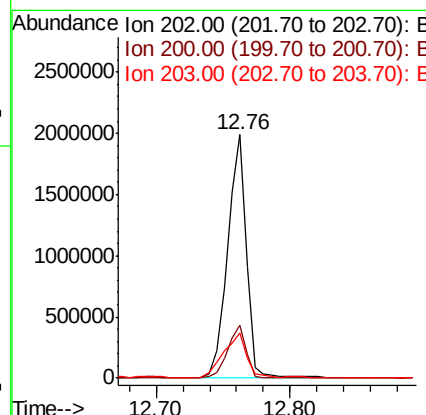
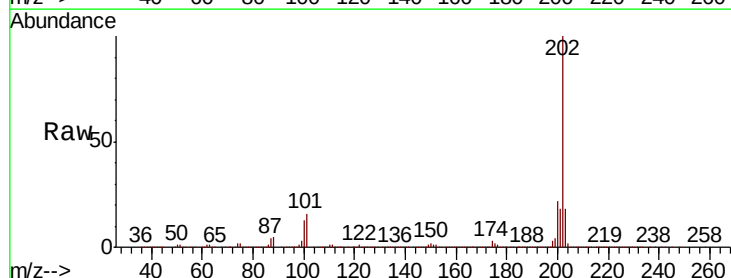
Instrument :
BNA_G
ClientSampleId :

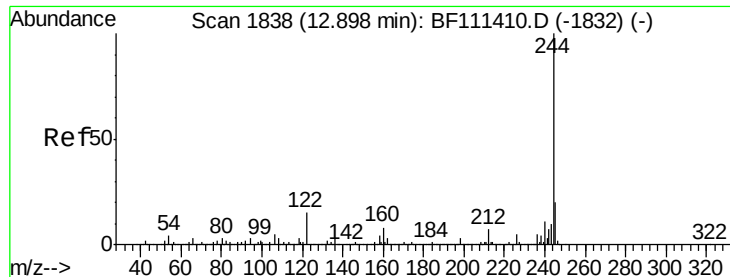
Tgt Ion:240 Resp: 419069
Ion Ratio Lower Upper
240 100
120 13.2 12.2 18.2
236 25.8 20.2 30.2



#78
Pyrene
Concen: 66.889 ng
RT: 12.76 min Scan# 1815
Delta R.T. 0.01 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

Tgt Ion:202 Resp: 1976278
Ion Ratio Lower Upper
202 100
200 21.9 19.0 28.4
203 18.4 15.2 22.8





#79

Terphenyl-d14

Concen: 14.131 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.00 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampleId :

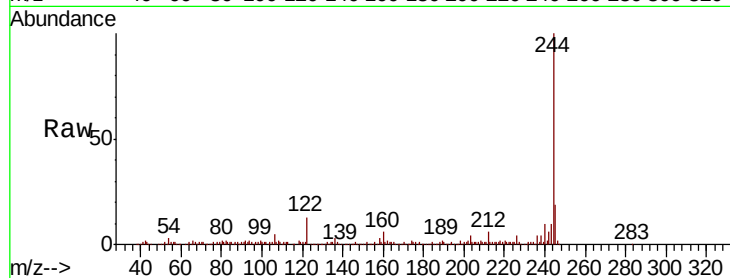
Tgt Ion: 244 Resp: 252175

Ion Ratio Lower Upper

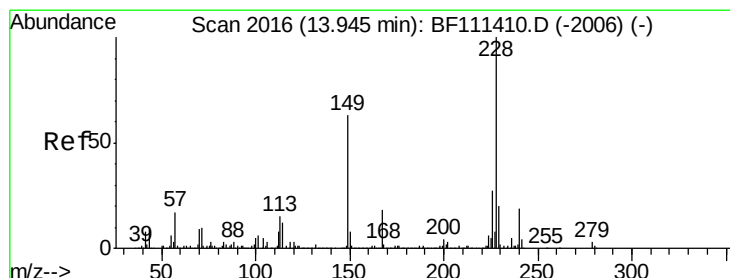
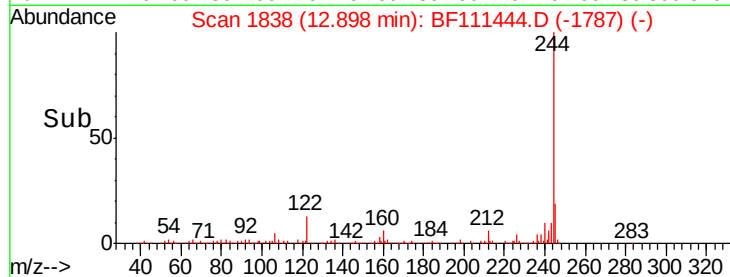
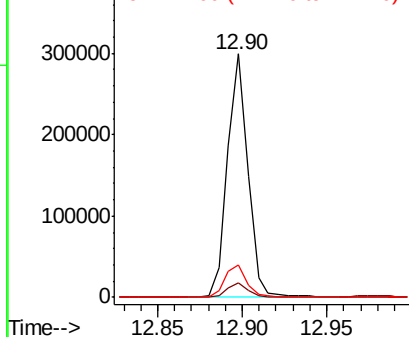
244 100

212 6.1 5.7 8.5

122 13.3 13.1 19.7



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: 40.134 ng

RT: 13.94 min Scan# 2016

Delta R.T. -0.00 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

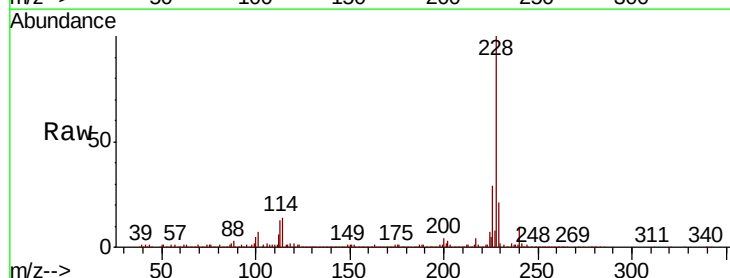
Tgt Ion: 228 Resp: 914501

Ion Ratio Lower Upper

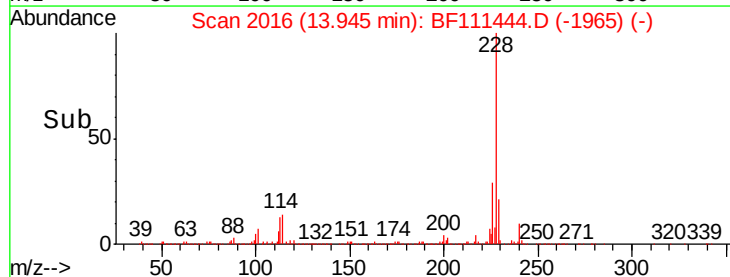
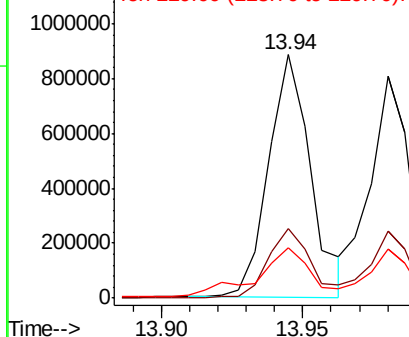
228 100

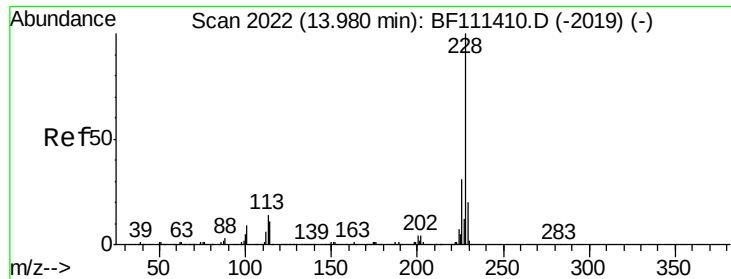
226 28.8 22.6 34.0

229 20.9 16.3 24.5



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: 32.384 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.00 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampled :

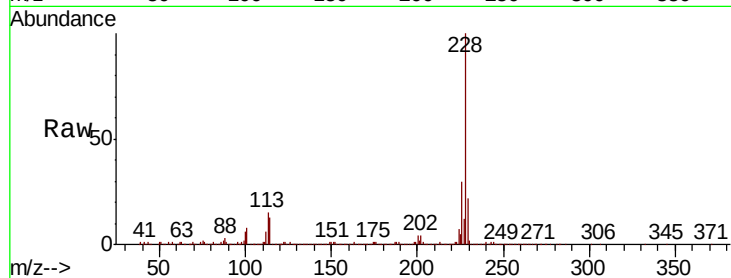
Tgt Ion:228 Resp: 777351

Ion Ratio Lower Upper

228 100

226 30.4 25.3 37.9

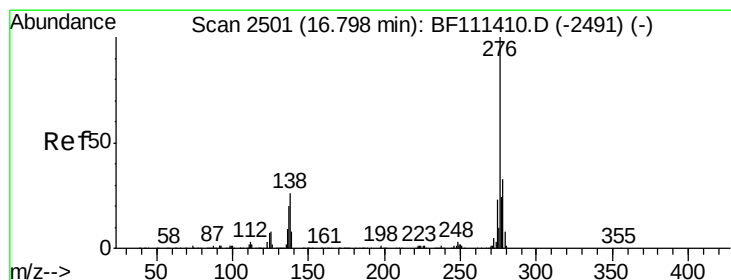
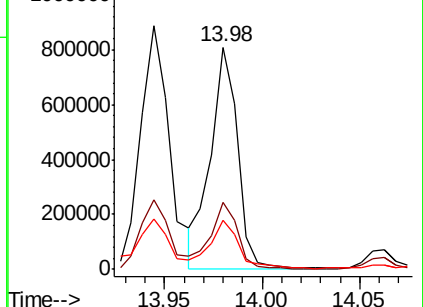
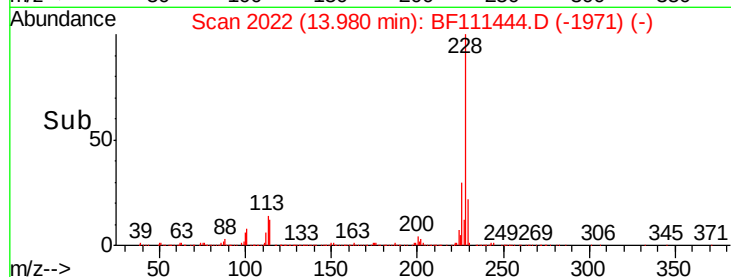
229 21.9 17.2 25.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 11.678 ng

RT: 16.81 min Scan# 2503

Delta R.T. 0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

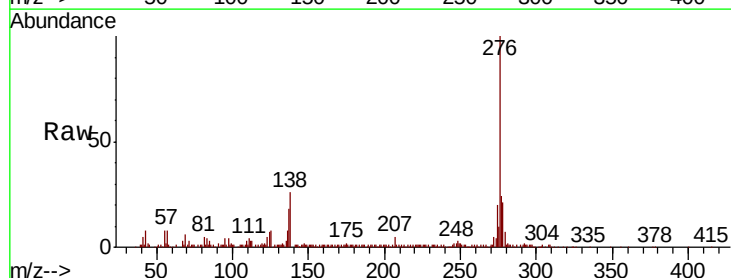
Tgt Ion:276 Resp: 202311

Ion Ratio Lower Upper

276 100

138 26.2 27.8 41.6#

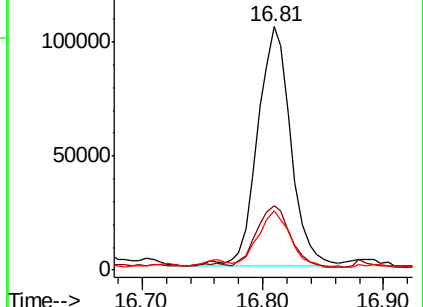
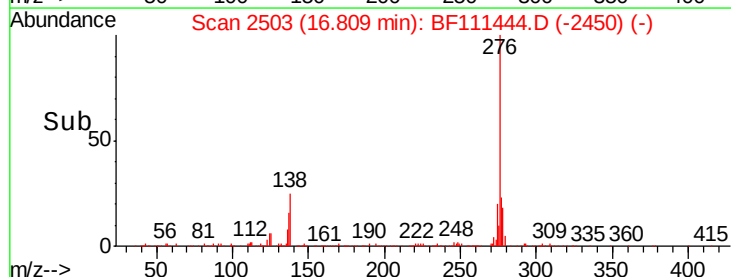
277 22.6 20.1 30.1

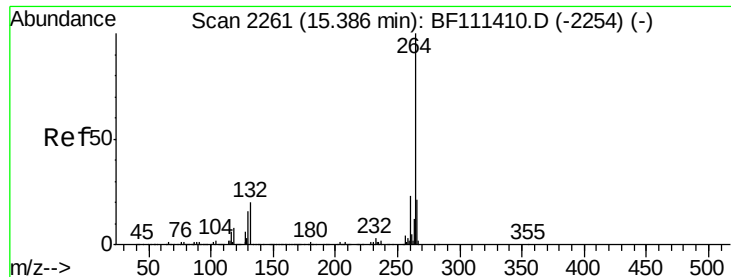


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.39 min Scan# 2262

Delta R.T. 0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampleId :

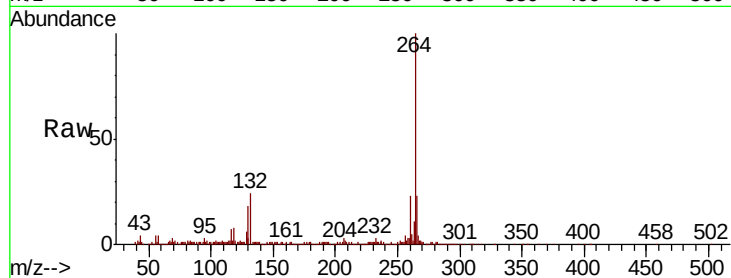
Tgt Ion:264 Resp: 319041

Ion Ratio Lower Upper

264 100

260 23.1 18.3 27.5

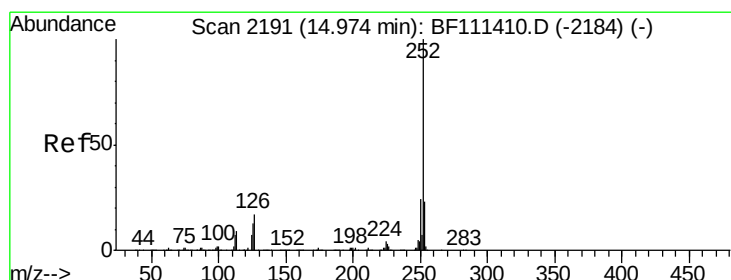
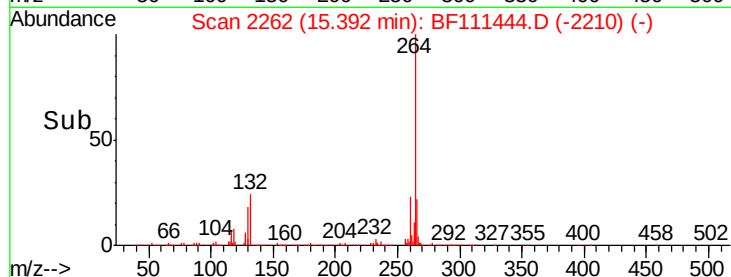
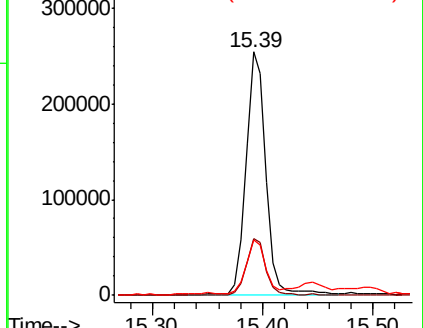
265 22.6 17.7 26.5



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: 49.861 ng

RT: 14.98 min Scan# 2192

Delta R.T. 0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

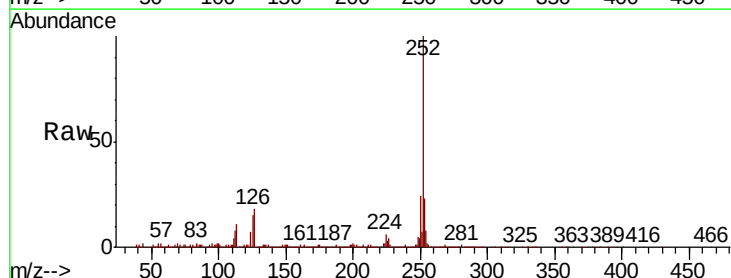
Tgt Ion:252 Resp: 927433

Ion Ratio Lower Upper

252 100

253 23.0 18.2 27.2

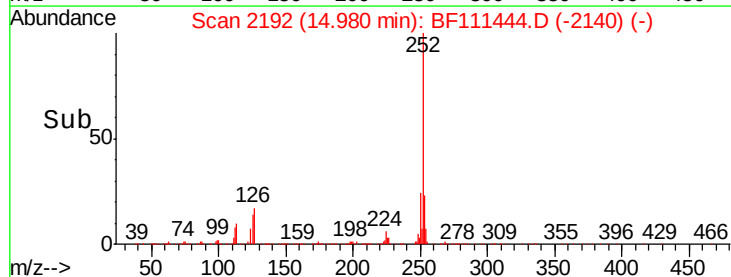
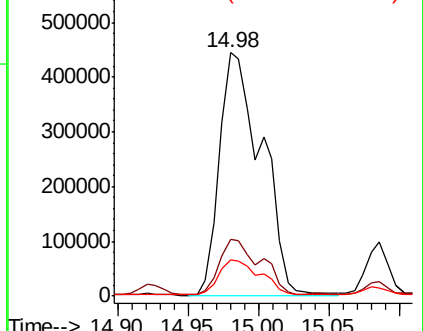
125 14.6 10.4 15.6

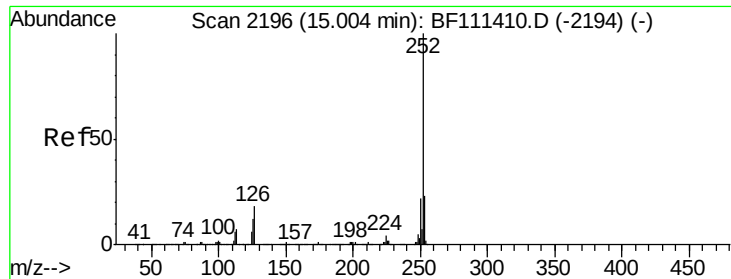


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

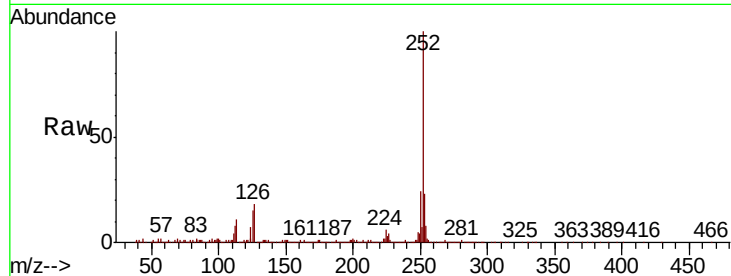




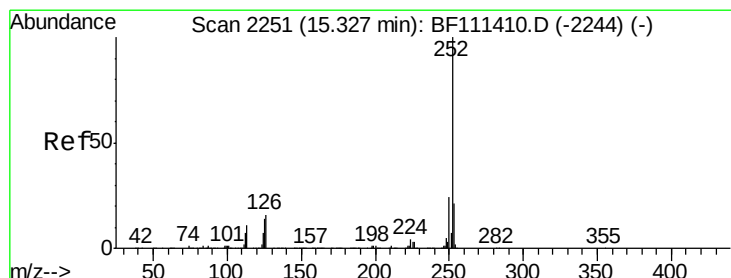
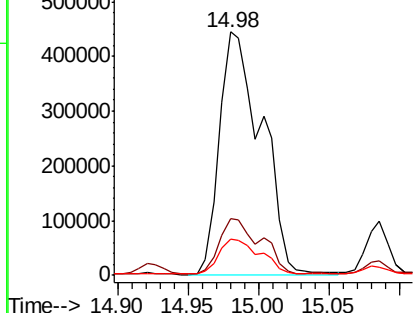
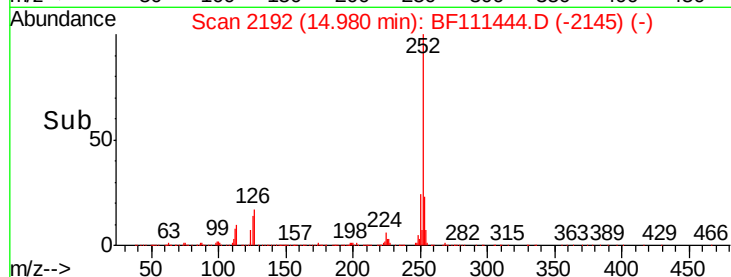
#89
Benzo(k)fluoranthene
Concen: 52.182 ng
RT: 14.98 min Scan# 2192
Delta R.T. -0.02 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

Instrument :
BNA_G
ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	14.6	9.8	14.8

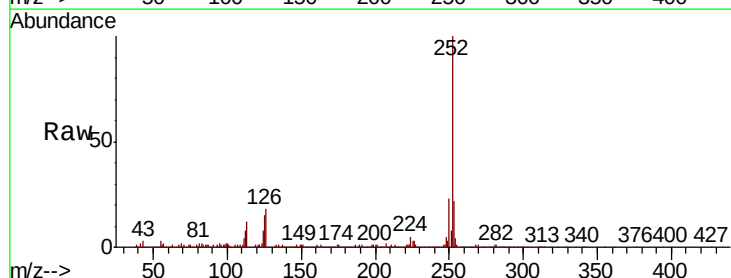


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

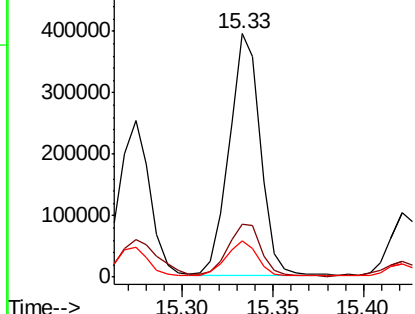
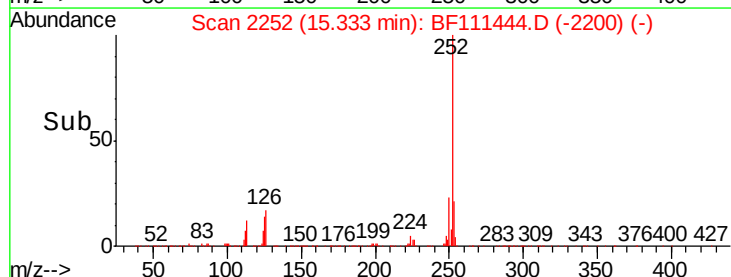


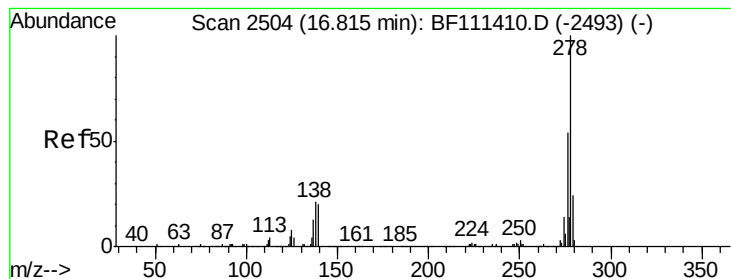
#90
Benzo(a)pyrene
Concen: 28.266 ng
RT: 15.33 min Scan# 2252
Delta R.T. 0.01 min
Lab File: BF111444.D
Acq: 15 Dec 2018 3:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.8
125	14.7	12.3	18.5



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





#91

Dibenzo(a,h)anthracene

Concen: 4.187 ng

RT: 16.82 min Scan# 2505

Delta R.T. 0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

Instrument :

BNA_G

ClientSampleId :

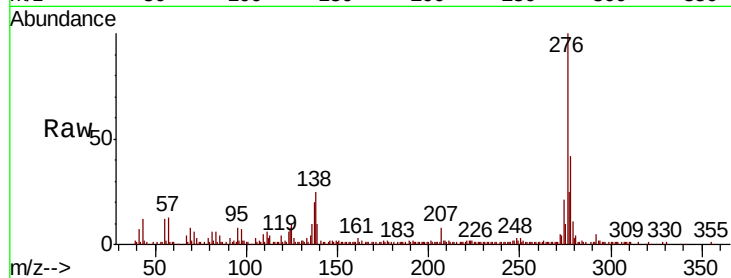
Tgt Ion: 278 Resp: 55400

Ion Ratio Lower Upper

278 100

139 24.6 18.2 27.4

279 26.5 19.0 28.6

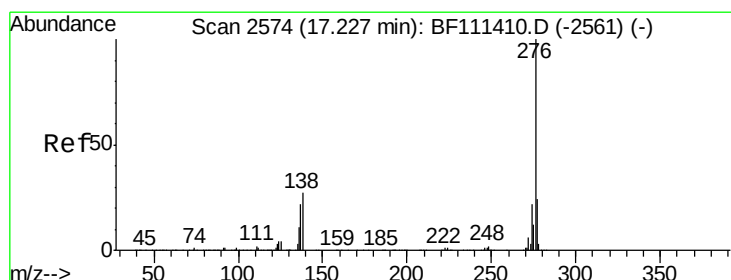
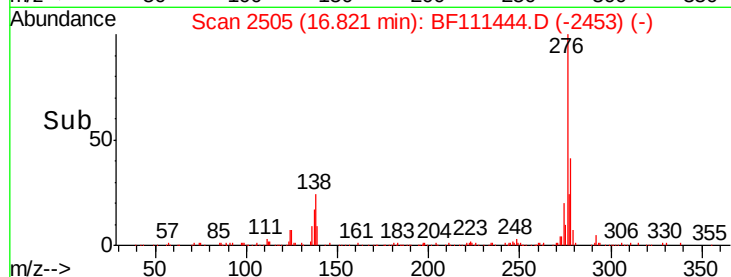
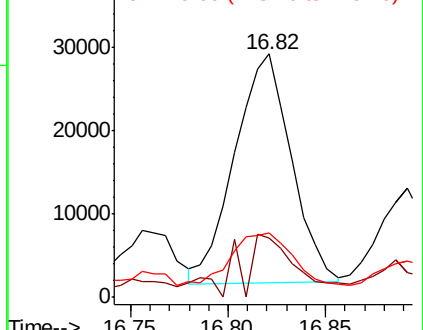


Abundance

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(g,h,i)perylene

Concen: 12.600 ng

RT: 17.24 min Scan# 2576

Delta R.T. 0.01 min

Lab File: BF111444.D

Acq: 15 Dec 2018 3:26

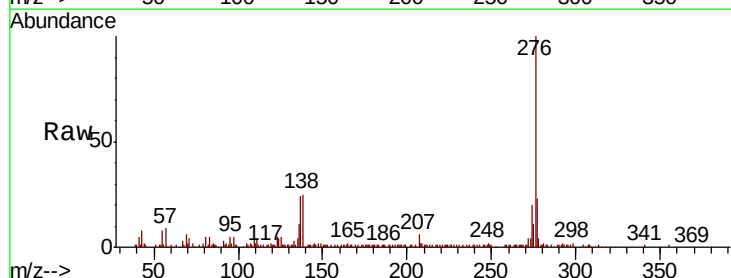
Tgt Ion: 276 Resp: 163648

Ion Ratio Lower Upper

276 100

277 23.0 19.2 28.8

138 24.8 24.9 37.3#



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

