

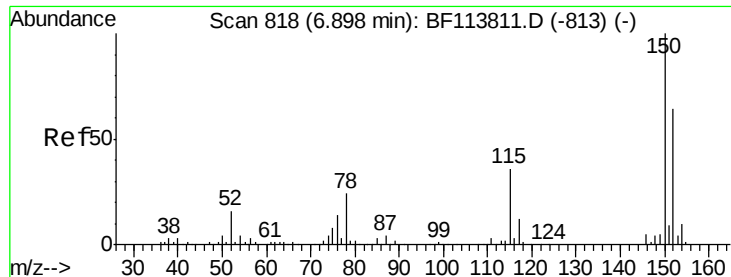
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041919\
 Data File : BF113869.D
 Acq On : 19 Apr 2019 19:57
 Operator : JU/SJ
 Sample : K2203-13 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-041819-A

Quant Time: Apr 19 23:25:44 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF041819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 18 13:55:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	158558	20.00	ng	0.00
21) Naphthalene-d8	8.19	136	541044	20.00	ng	0.00
39) Acenaphthene-d10	9.94	164	247462	20.00	ng	0.00
64) Phenanthrene-d10	11.43	188	499308	20.00	ng	0.02
76) Chrysene-d12	14.07	240	147	20.00	ng	0.02
87) Perylene-d12	15.54	264	398	20.00	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	173372	18.18	ng	0.00
7) Phenol-d6	6.52	99	219371	18.45	ng	0.00
23) Nitrobenzene-d5	7.45	82	104177	11.73	ng	0.00
42) 2,4,6-Tribromophenol	10.72	330	51647	18.89	ng	0.00
45) 2-Fluorobiphenyl	9.26	172	217836	13.42	ng	0.00
79) Terphenyl-d14	13.12	244	281707	40185.43	ng	0.12
Target Compounds						
9) Benzaldehyde	6.67	77	4016	Below Cal		Qvalue # 76
25) Isophorone	7.45	82	104175	5.663	ng	# 65
32) Benzoic acid	7.86	122	134	5.950	ng	# 82
51) 2,6-Dinitrotoluene	9.94	165	32463	8.494	ng	# 33
57) 2,4-Dinitrotoluene	9.94	165	32463	6.846	ng	# 29
77) Benzidine	12.81	184	112	22.094	ng	# 1
78) Pyrene	12.96	202	16785	1620.176	ng	98
80) Butylbenzylphthalate	13.47	149	380	99.017	ng	# 18
81) Benzo(a)anthracene	14.07	228	1061	123.474	ng	# 1
82) 3,3'-Dichlorobenzidine	14.03	252	794	259.974	ng	# 10
83) Chrysene	14.12	228	2228	261.227	ng	# 7
84) Bis(2-ethylhexyl)phthalate	14.04	149	234	50.967	ng	# 56
85) Di-n-octyl phthalate	14.68	149	624	87.598	ng	# 1
86) Indeno(1,2,3-cd)pyrene	17.04	276	521	74.827	ng	# 69
88) Benzo(b)fluoranthene	15.11	252	293	11.809	ng	# 1
89) Benzo(k)fluoranthene	15.18	252	568	25.135	ng	# 1
90) Benzo(a)pyrene	15.54	252	252	11.486	ng	# 1
91) Dibenzo(a,h)anthracene	17.02	278	101	5.174	ng	# 1
92) Benzo(g,h,i)perylene	17.45	276	187	9.425	ng	# 1

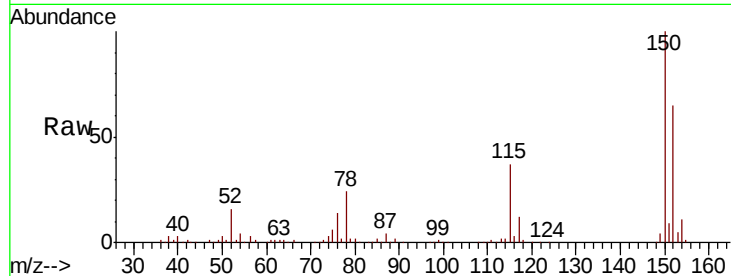
(#) = qualifier out of range (m) = manual integration (+) = signals summed



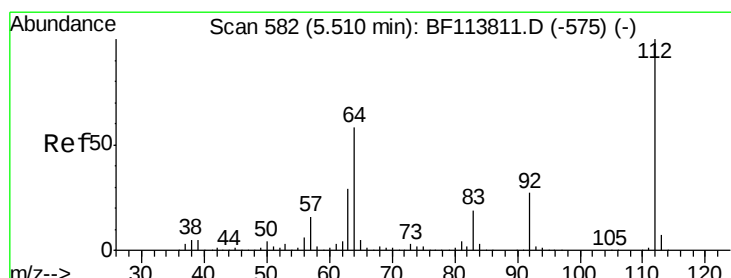
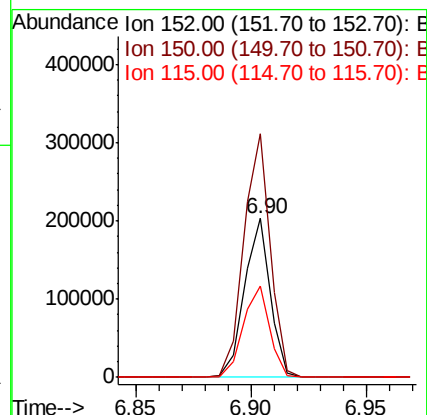
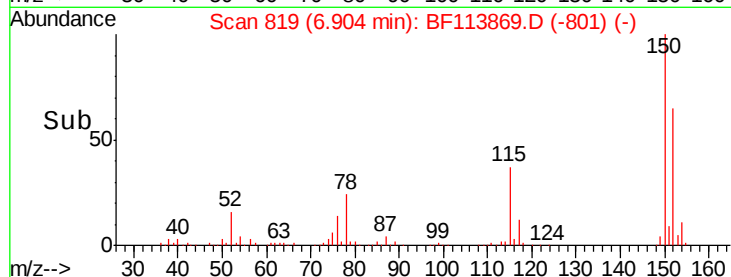
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.90 min Scan# 819
 Delta R.T. 0.01 min
 Lab File: BF113869.D
 Acq: 19 Apr 2019 19:57

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-041819-A

Tgt Ion:152 Resp: 158558
 Ion Ratio Lower Upper
 152 100
 150 153.5 125.9 188.9
 115 57.4 45.9 68.9

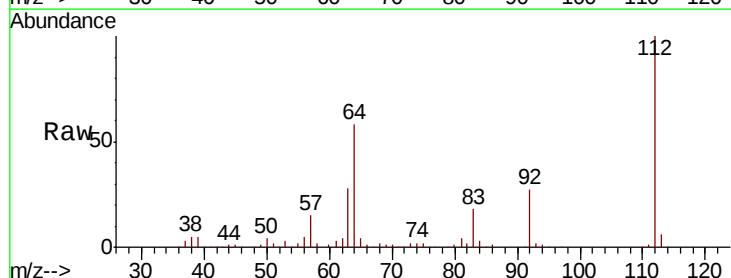


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

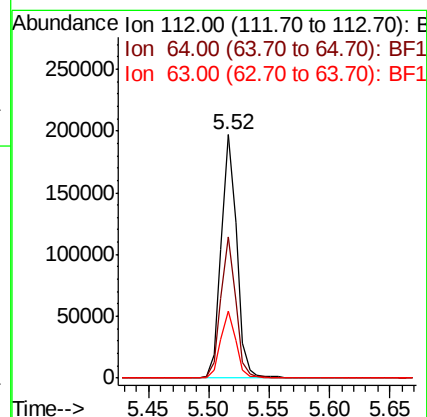
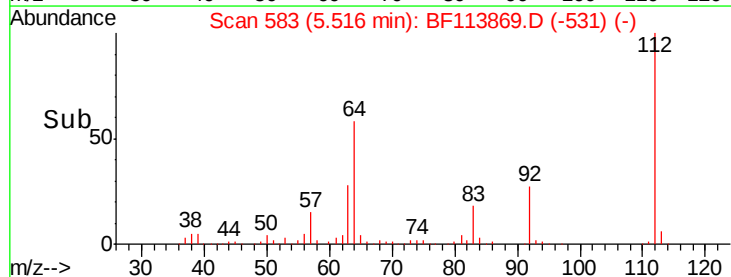


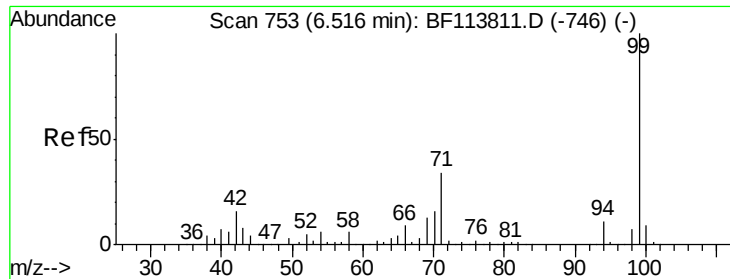
#5
 2-Fluorophenol
 Concen: 18.181 ng
 RT: 5.52 min Scan# 583
 Delta R.T. 0.01 min
 Lab File: BF113869.D
 Acq: 19 Apr 2019 19:57

Tgt Ion:112 Resp: 173372
 Ion Ratio Lower Upper
 112 100
 64 58.1 46.6 69.8
 63 27.6 23.1 34.7



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: 18.447 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.00 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

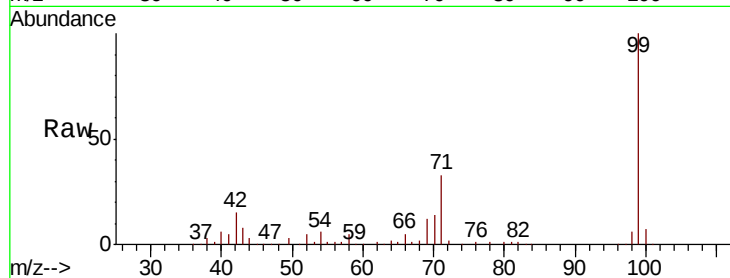
Tgt Ion: 99 Resp: 219371

Ion Ratio Lower Upper

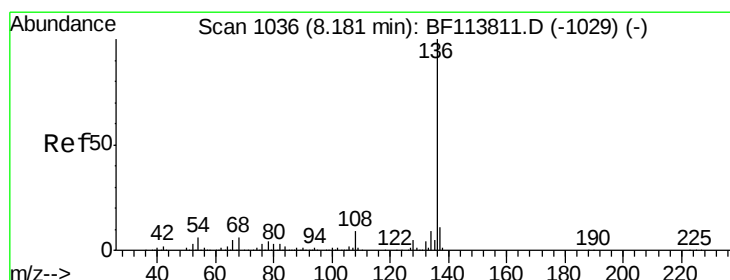
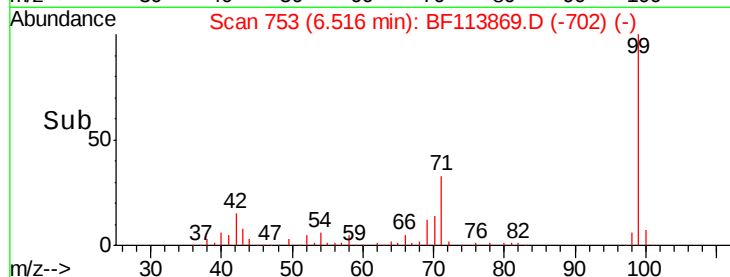
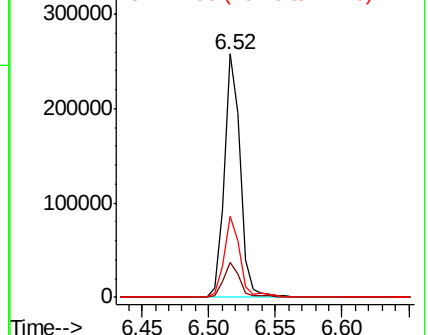
99 100

42 14.6 12.5 18.7

71 33.5 26.9 40.3



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.19 min Scan# 1037

Delta R.T. 0.01 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Tgt Ion: 136 Resp: 541044

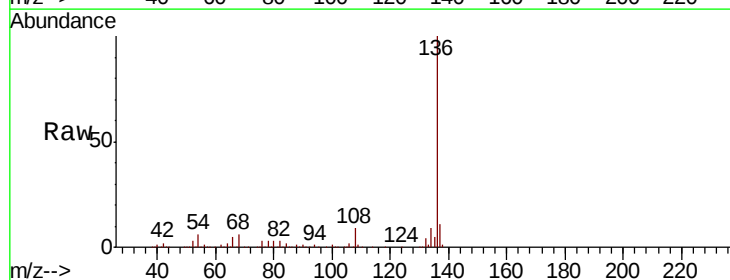
Ion Ratio Lower Upper

136 100

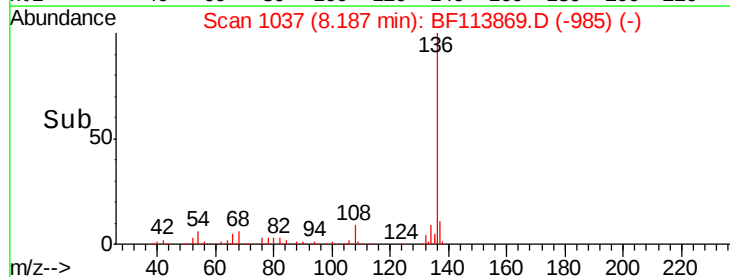
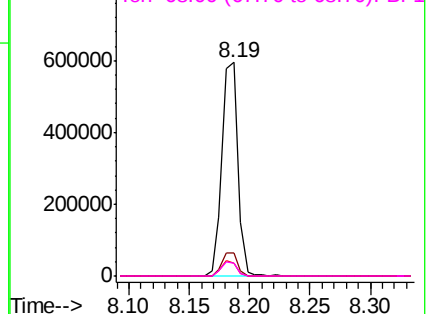
137 10.8 8.6 12.8

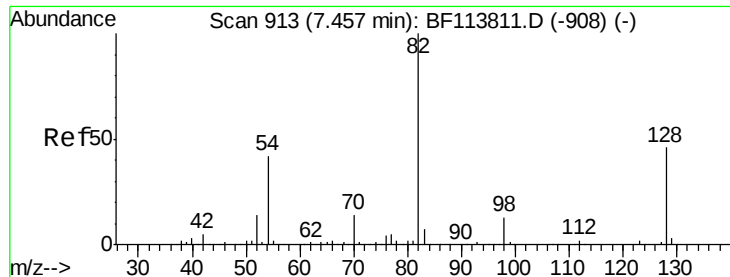
54 5.8 5.0 7.6

68 5.8 4.9 7.3



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

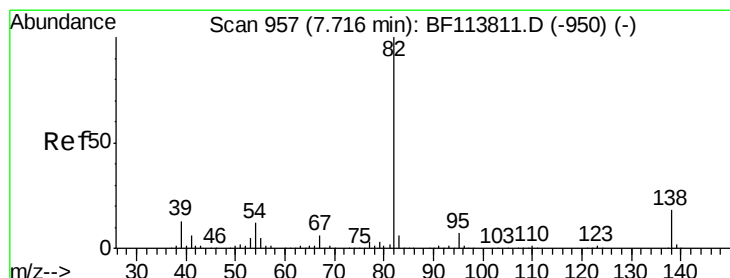
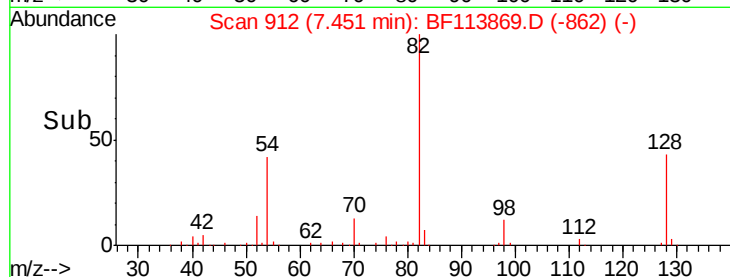
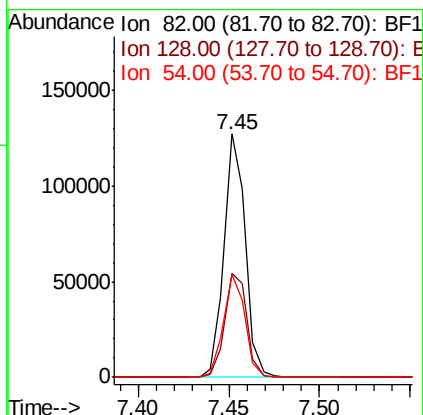
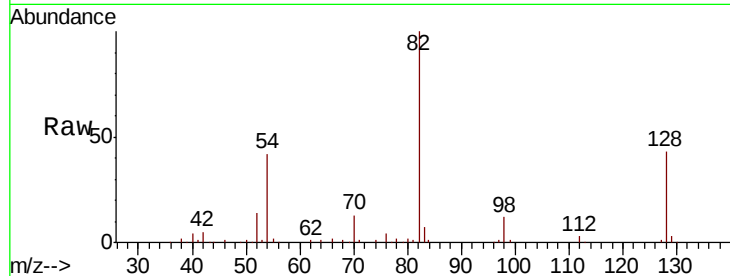




#23
Nitrobenzene-d5
Concen: 11.725 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

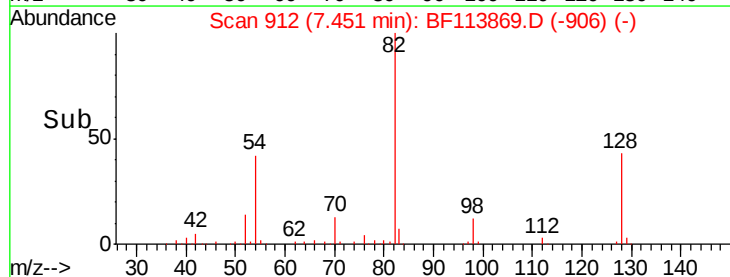
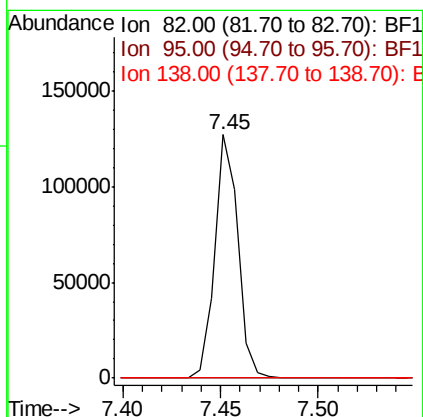
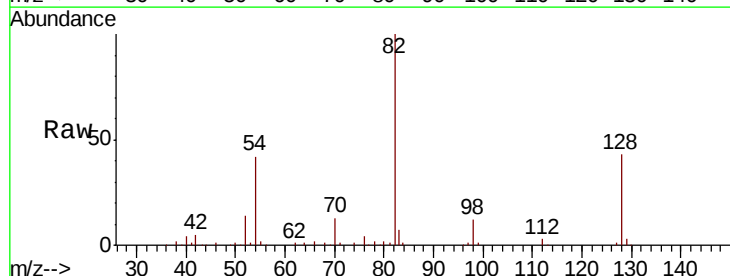
Instrument :
BNA_F
ClientSampleId :
SU-02-041819-A

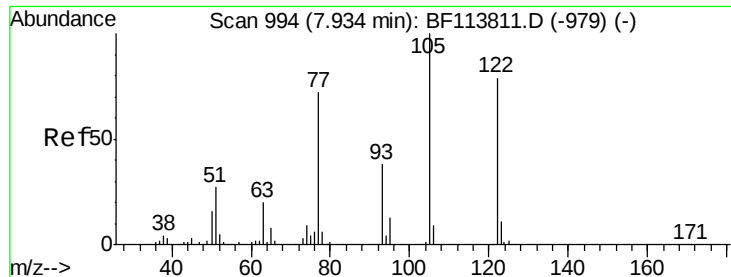
Tgt Ion: 82 Resp: 104177
Ion Ratio Lower Upper
82 100
128 42.9 36.8 55.2
54 42.2 33.8 50.6



#25
Isophorone
Concen: 5.663 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.26 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

Tgt Ion: 82 Resp: 104175
Ion Ratio Lower Upper
82 100
95 0.0 5.4 8.2#
138 0.0 14.6 22.0#





#32

Benzoic acid

Concen: 5.950 ng

RT: 7.86 min Scan# 982

Delta R.T. -0.07 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

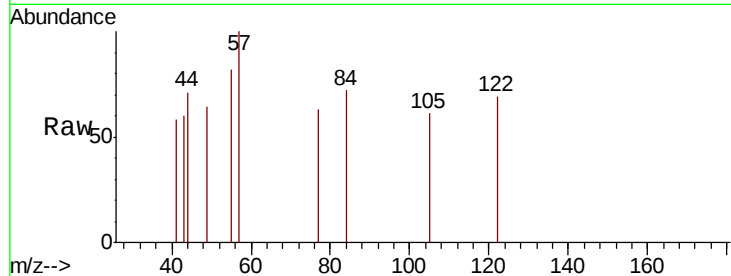
Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

Tgt Ion	Ratio	Lower	Upper
122	100		
105	89.4	104.3	144.3
77	91.3	70.4	110.4

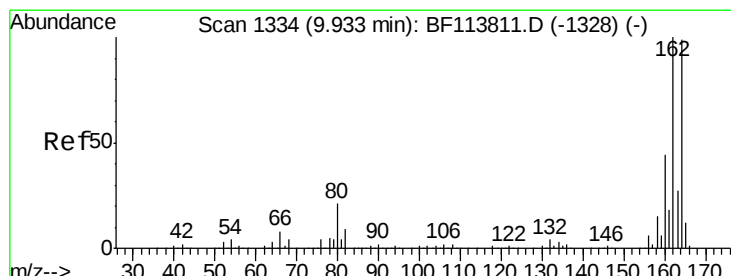
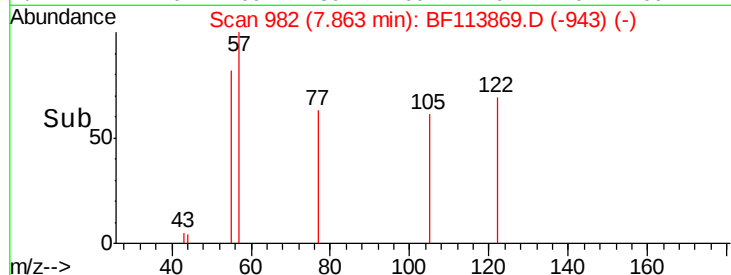
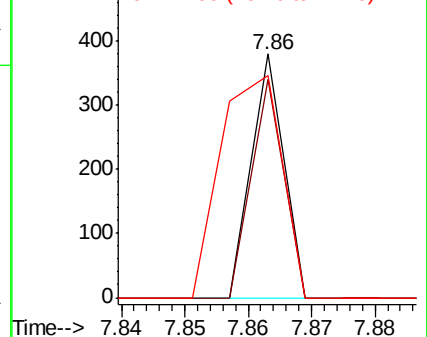


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

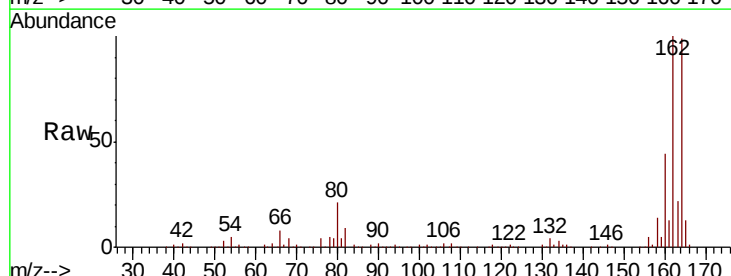
RT: 9.94 min Scan# 1335

Delta R.T. 0.01 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.1	121.7
160	44.4	35.8	53.6

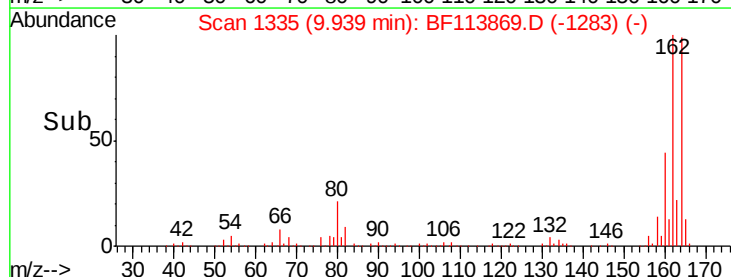
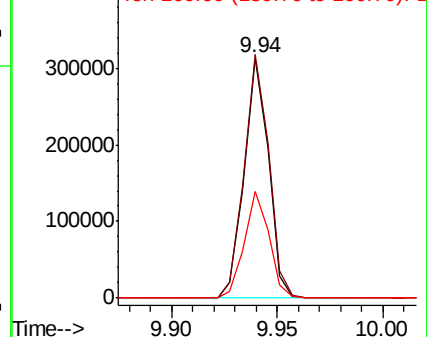


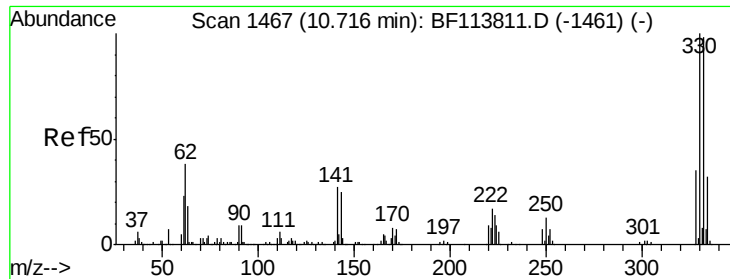
Abundance

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

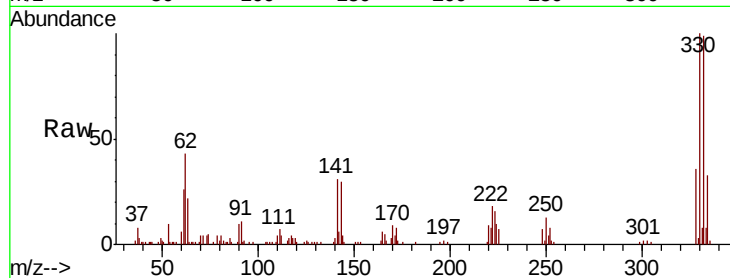




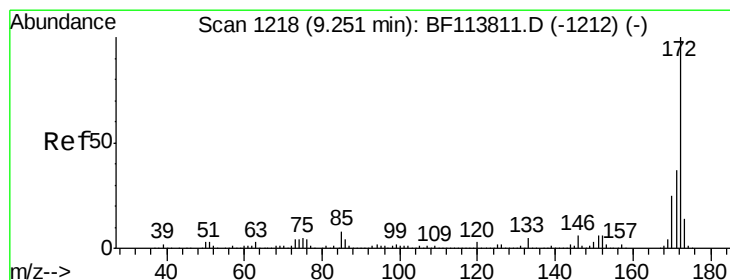
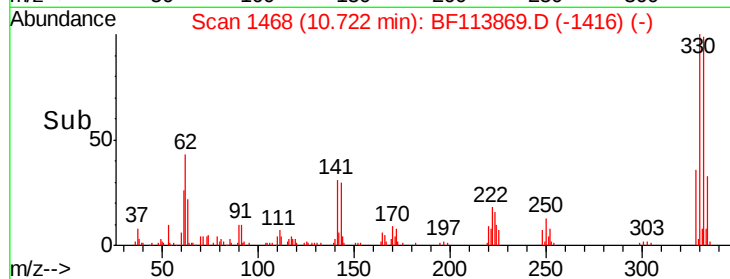
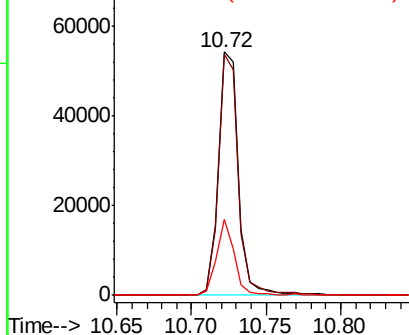
#42
 2,4,6-Tribromophenol
 Concen: 18.891 ng
 RT: 10.72 min Scan# 1468
 Delta R.T. 0.01 min
 Lab File: BF113869.D
 Acq: 19 Apr 2019 19:57

Instrument :
 BNA_F
 ClientSampleId :
 SU-02-041819-A

Tgt Ion:330 Resp: 51647
 Ion Ratio Lower Upper
 330 100
 332 97.2 77.5 116.3
 141 27.2 22.2 33.2

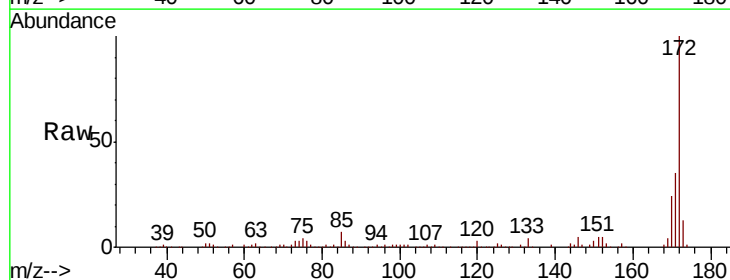


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

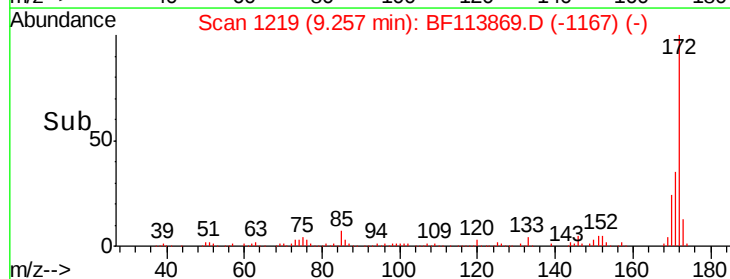
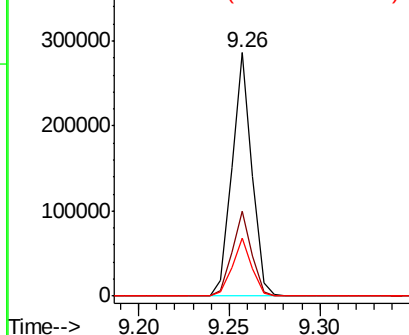


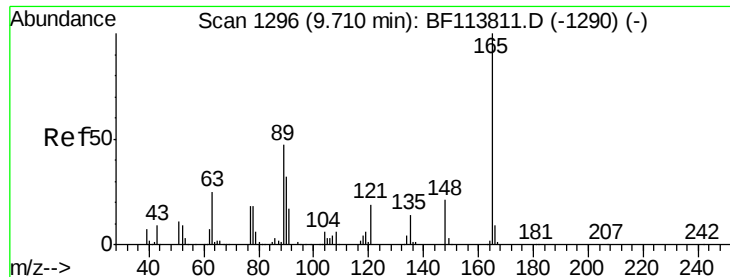
#45
 2-Fluorobiphenyl
 Concen: 13.425 ng
 RT: 9.26 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: BF113869.D
 Acq: 19 Apr 2019 19:57

Tgt Ion:172 Resp: 217836
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.4 44.0
 170 23.8 19.9 29.9



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

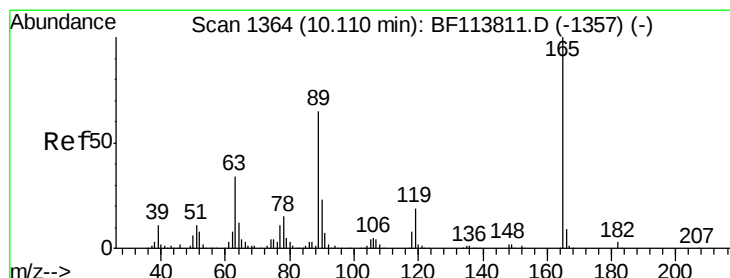
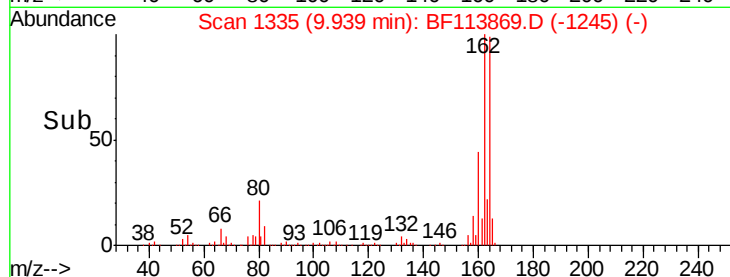
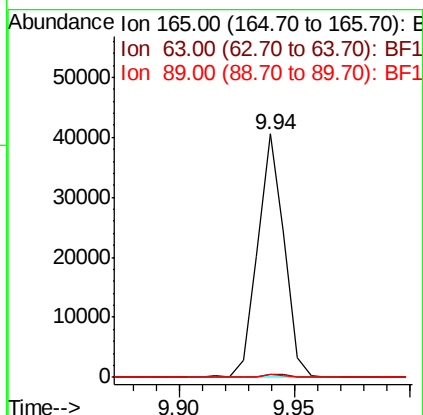
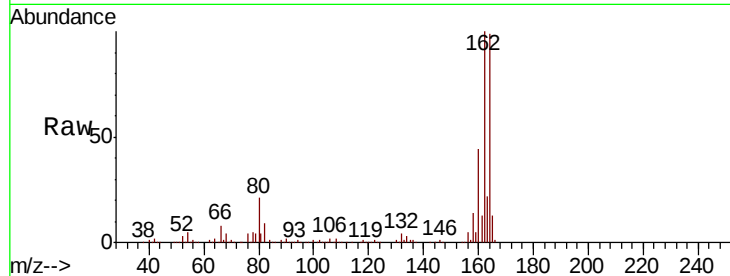




#51
2,6-Dinitrotoluene
Concen: 8.494 ng
RT: 9.94 min Scan# 1335
Delta R.T. 0.23 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

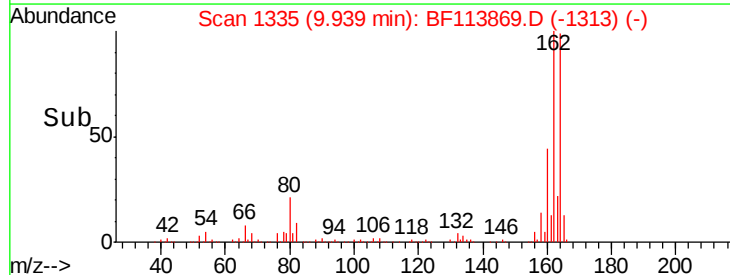
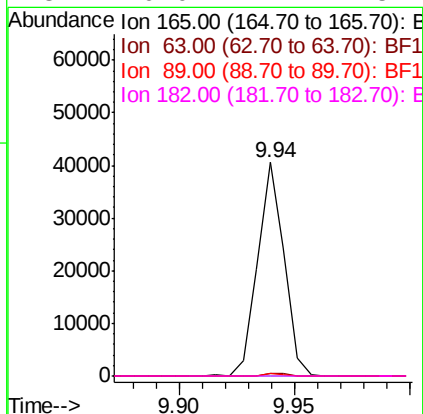
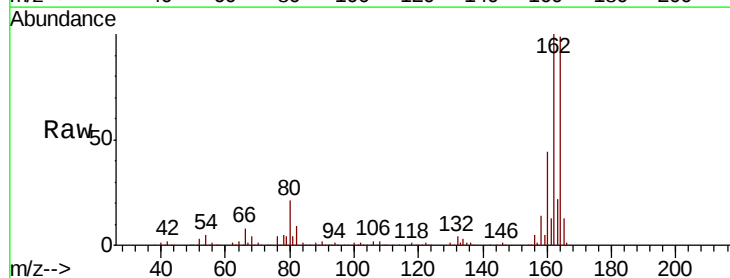
Instrument :
BNA_F
ClientSampleId :
SU-02-041819-A

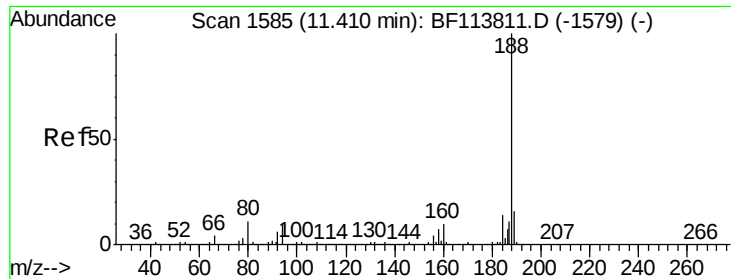
Tgt Ion:165 Resp: 32463
Ion Ratio Lower Upper
165 100
63 1.1 33.8 50.8#
89 1.1 38.2 57.2#



#57
2,4-Dinitrotoluene
Concen: 6.846 ng
RT: 9.94 min Scan# 1335
Delta R.T. -0.17 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

Tgt Ion:165 Resp: 32463
Ion Ratio Lower Upper
165 100
63 1.1 27.4 41.0#
89 1.1 51.8 77.6#
182 0.0 2.2 3.2#

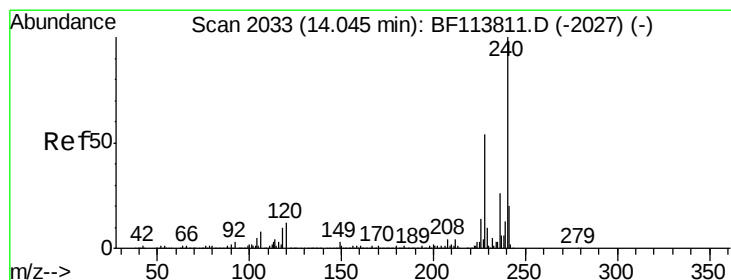
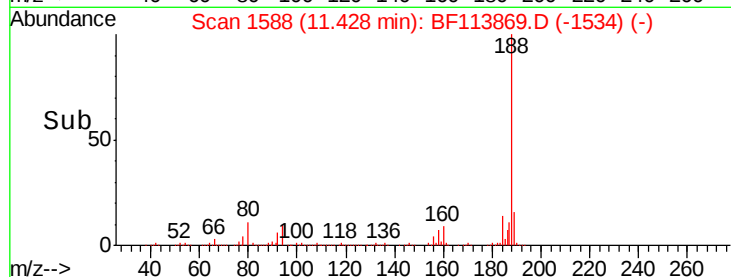
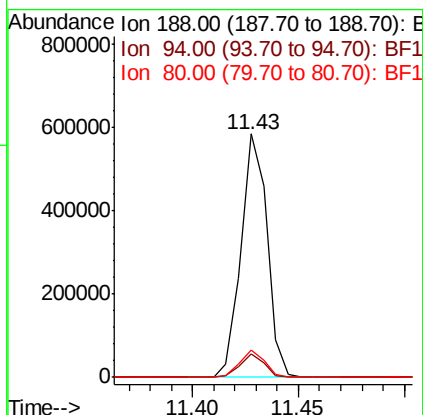
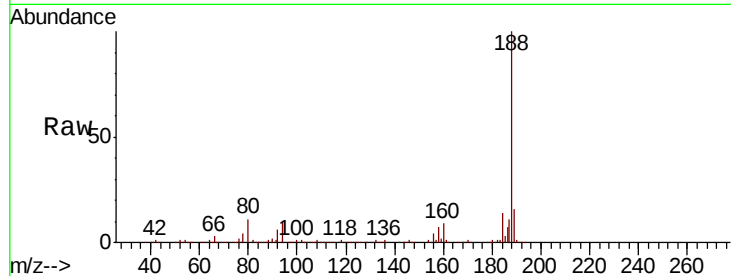




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.43 min Scan# 1588
Delta R.T. 0.02 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

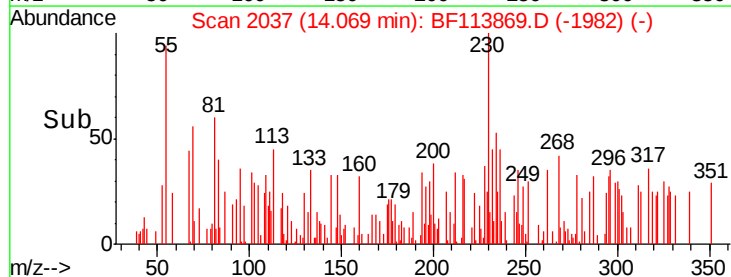
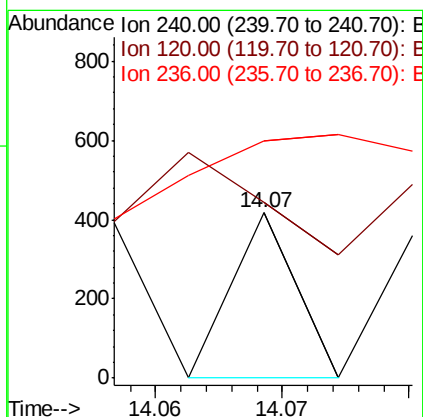
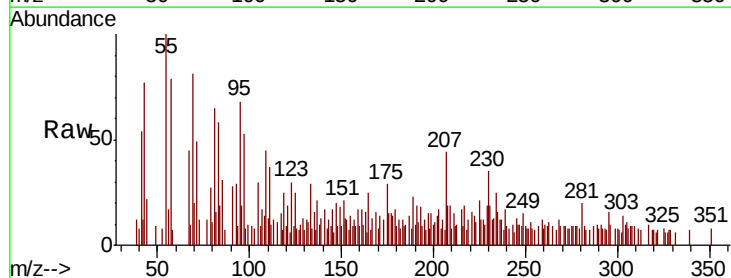
Instrument :
BNA_F
ClientSampleId :
SU-02-041819-A

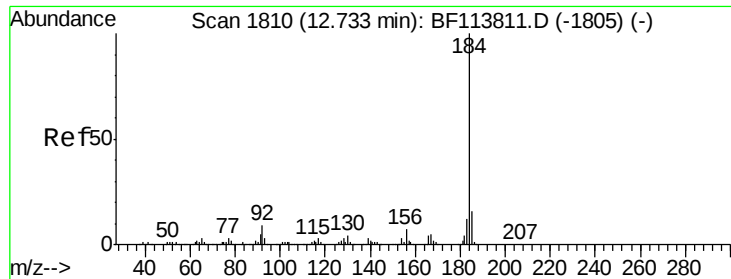
Tgt Ion:188 Resp: 499308
Ion Ratio Lower Upper
188 100
94 9.8 8.2 12.4
80 11.0 9.0 13.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.07 min Scan# 2037
Delta R.T. 0.02 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

Tgt Ion:240 Resp: 147
Ion Ratio Lower Upper
240 100
120 106.5 9.3 13.9#
236 143.9 21.2 31.8#





#77

Benzidine

Concen: 22.094 ng

RT: 12.81 min Scan# 1823

Delta R.T. 0.08 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

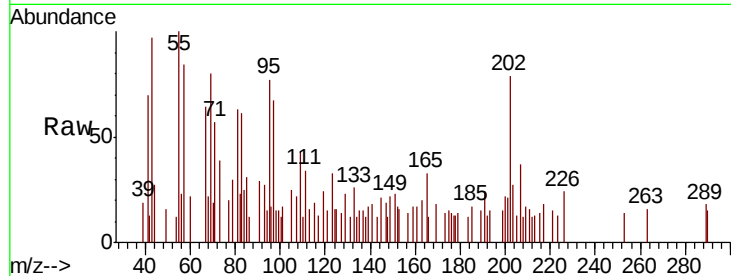
Tgt Ion:184 Resp: 112

Ion Ratio Lower Upper

184 100

185 140.3 13.0 19.6#

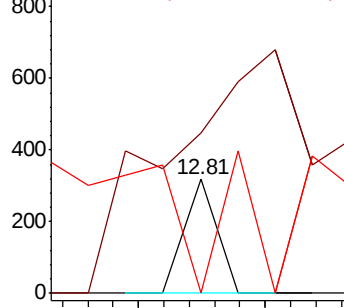
183 100.0 9.4 14.0#



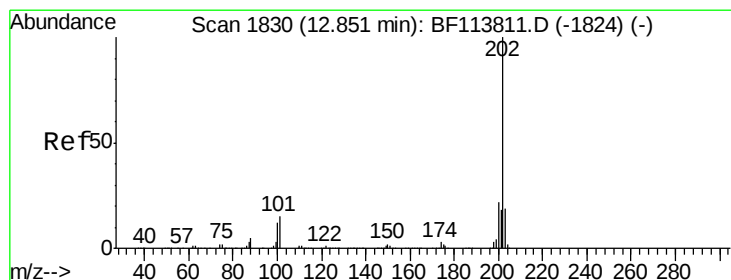
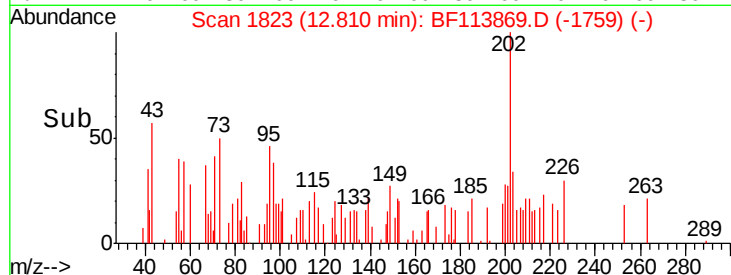
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



Time-->



#78

Pyrene

Concen: 1620.176 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.11 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

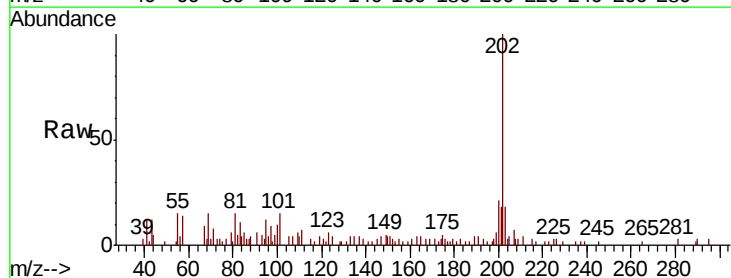
Tgt Ion:202 Resp: 16785

Ion Ratio Lower Upper

202 100

200 20.8 17.7 26.5

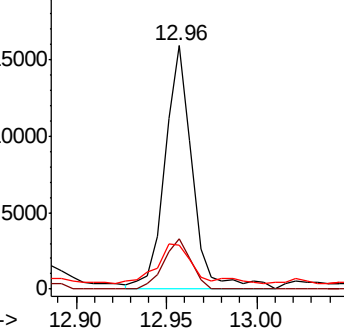
203 18.1 15.0 22.6



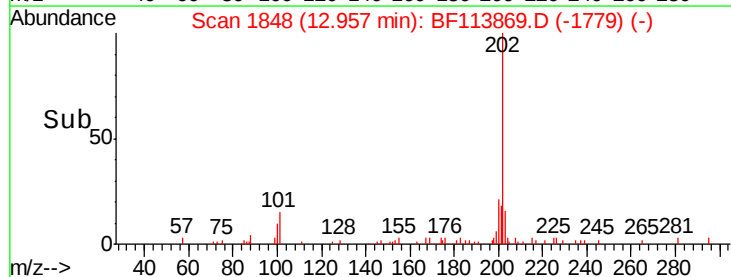
Abundance Ion 202.00 (201.70 to 202.70): E

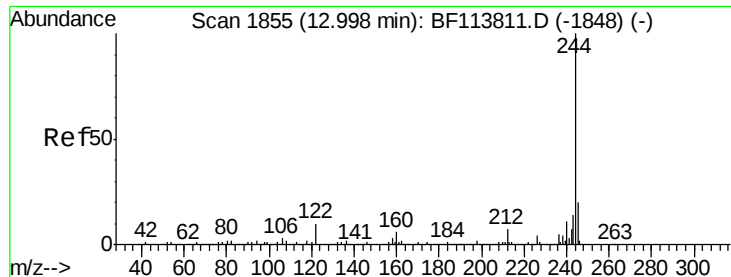
Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#79

Terphenyl-d14

Concen: 40185.428 ng

RT: 13.12 min Scan# 1876

Delta R.T. 0.12 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

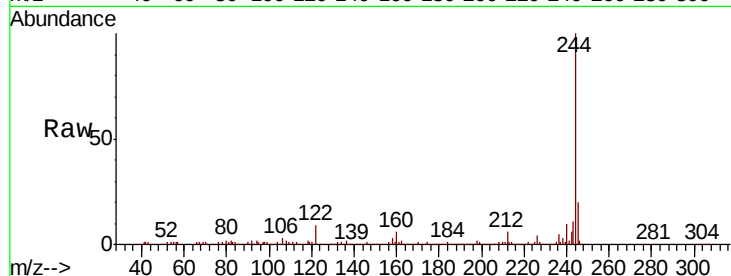
Tgt Ion:244 Resp: 281707

Ion Ratio Lower Upper

244 100

212 6.2 5.4 8.2

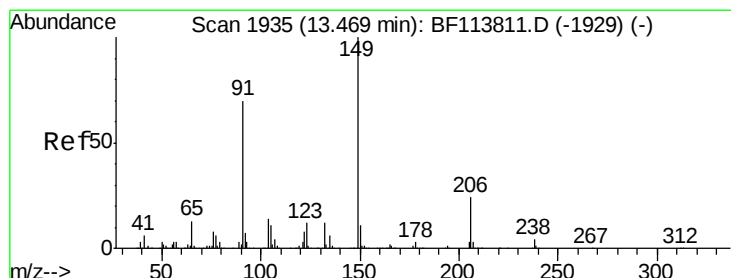
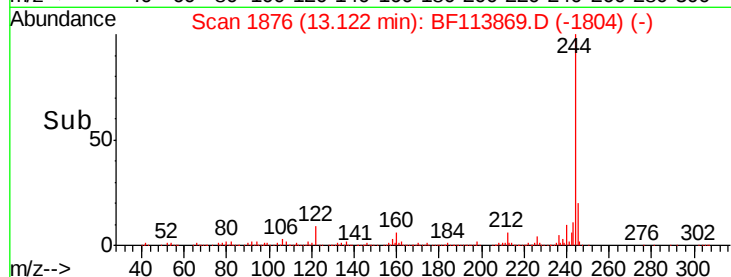
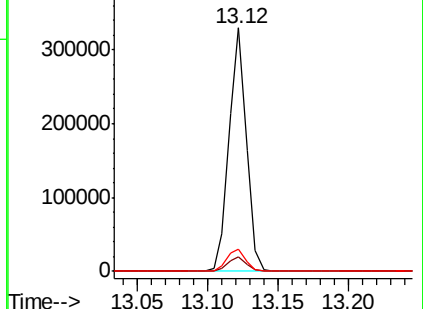
122 9.2 7.6 11.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 99.017 ng

RT: 13.47 min Scan# 1936

Delta R.T. 0.01 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

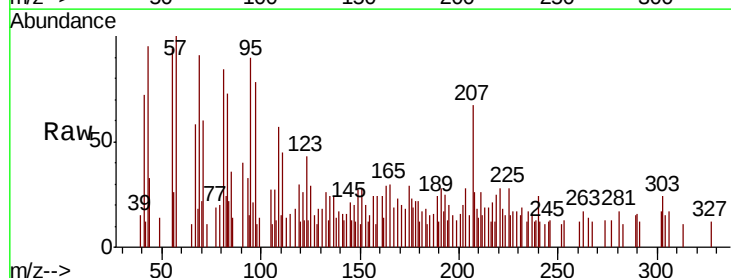
Tgt Ion:149 Resp: 380

Ion Ratio Lower Upper

149 100

91 147.1 56.3 84.5#

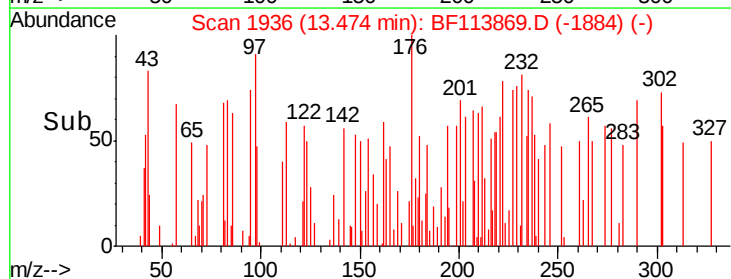
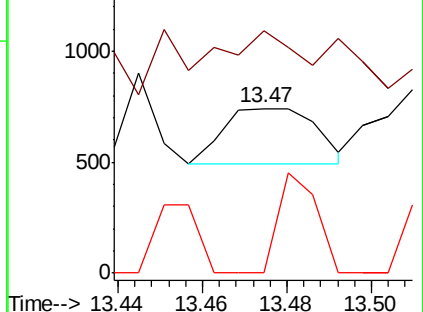
206 0.0 19.0 28.6#

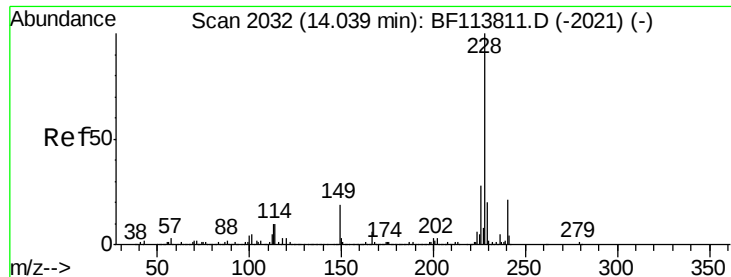


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 123.474 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.03 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

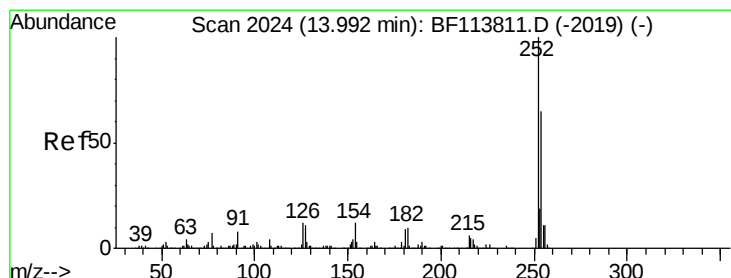
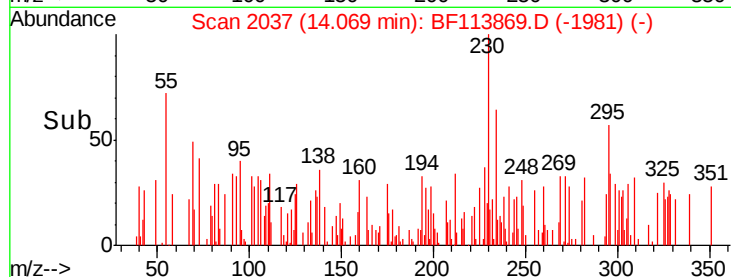
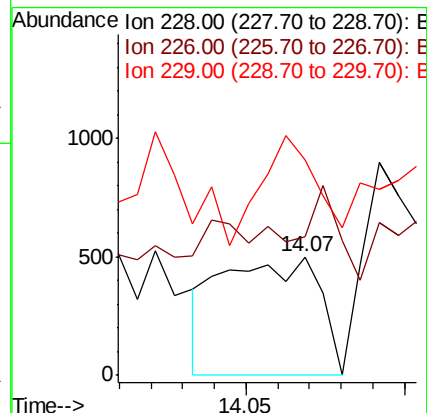
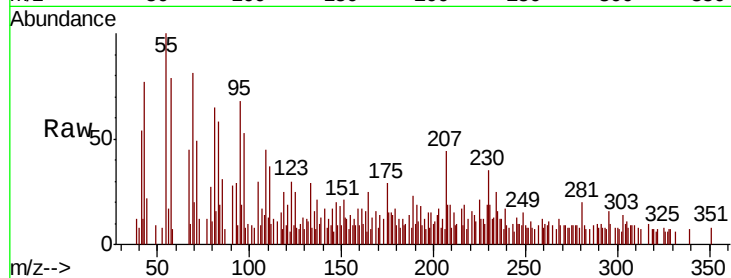
Tgt Ion:228 Resp: 1061

Ion Ratio Lower Upper

228 100

226 116.8 22.2 33.2#

229 182.2 16.0 24.0#



#82

3,3'-Dichlorobenzidine

Concen: 259.974 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.04 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

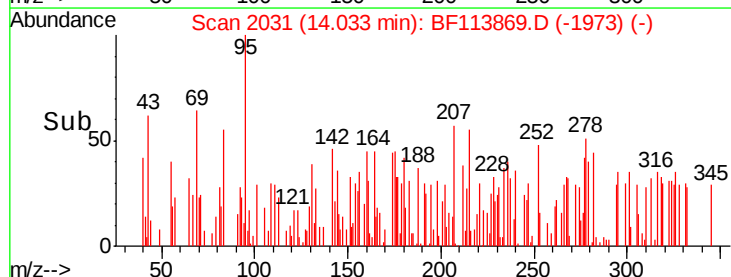
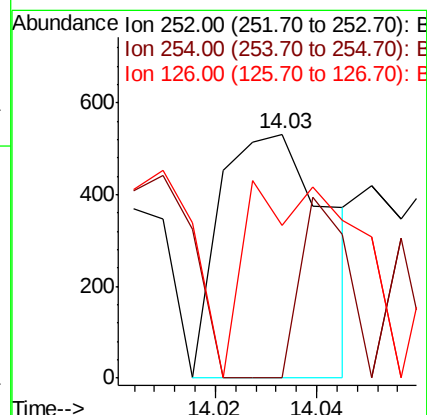
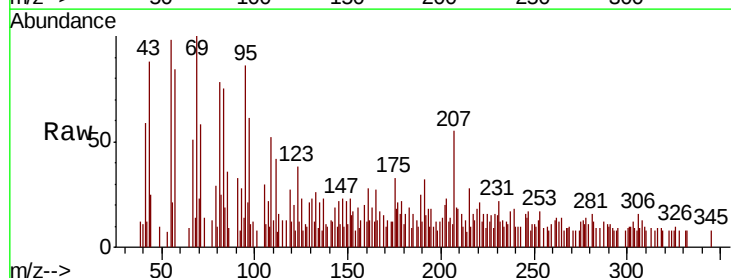
Tgt Ion:252 Resp: 794

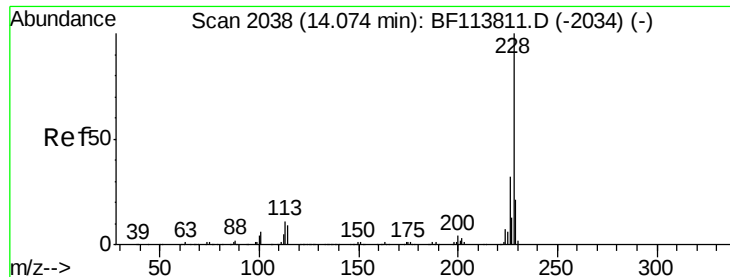
Ion Ratio Lower Upper

252 100

254 0.0 52.1 78.1#

126 62.7 9.3 13.9#





#83

Chrysene

Concen: 261.227 ng

RT: 14.12 min Scan# 2045

Delta R.T. 0.04 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

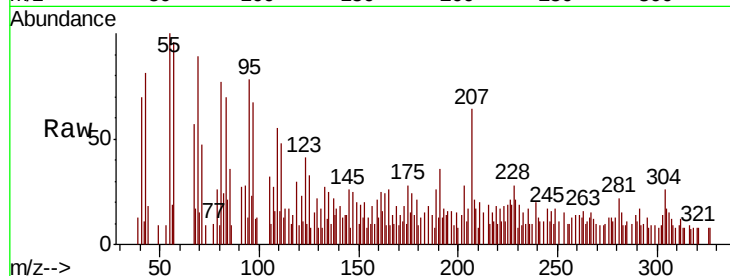
Tgt Ion:228 Resp: 2228

Ion Ratio Lower Upper

228 100

226 74.0 25.2 37.8#

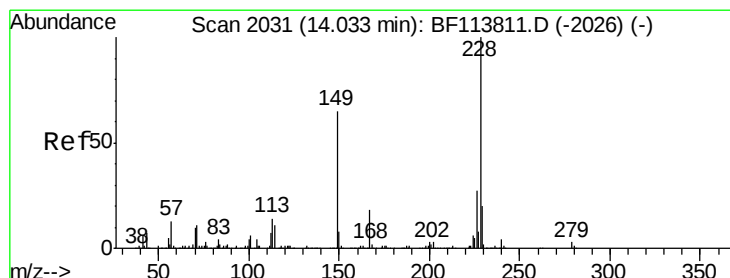
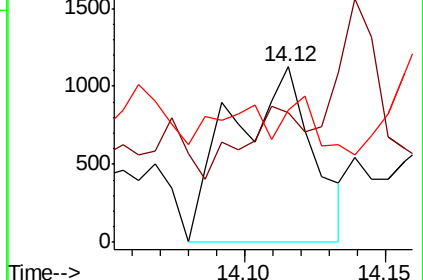
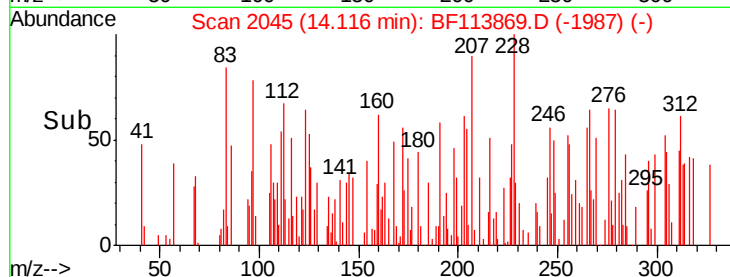
229 75.7 16.7 25.1#



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 50.967 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.01 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

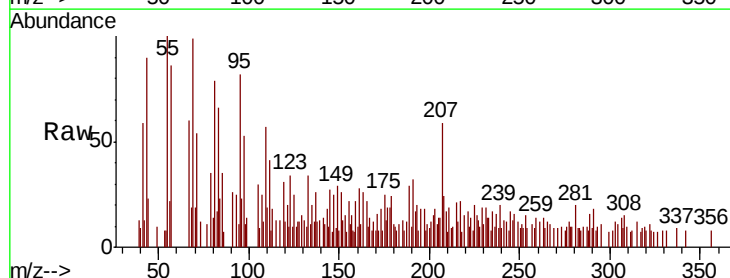
Tgt Ion:149 Resp: 234

Ion Ratio Lower Upper

149 100

167 47.1 22.9 34.3#

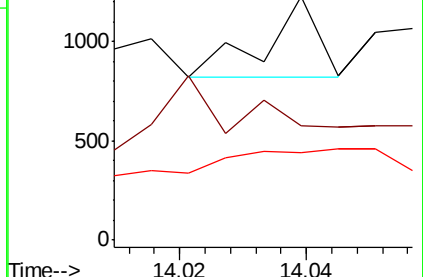
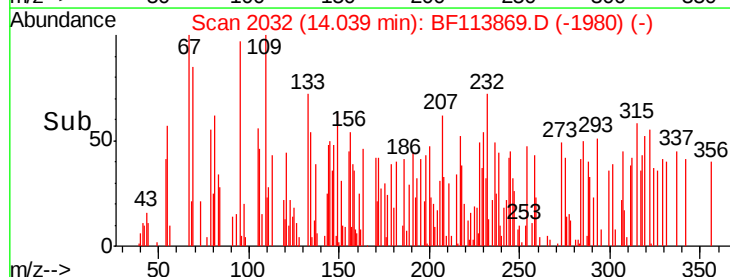
279 35.6 4.2 6.2#

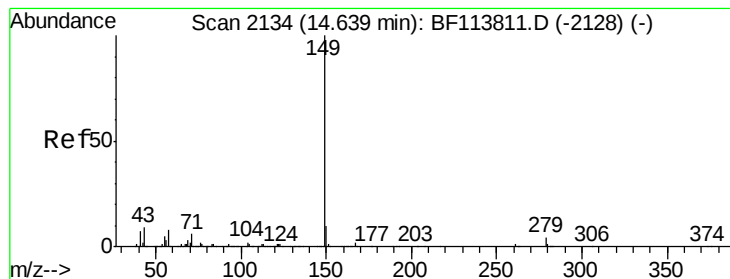


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 87.598 ng

RT: 14.68 min Scan# 2141

Delta R.T. 0.04 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

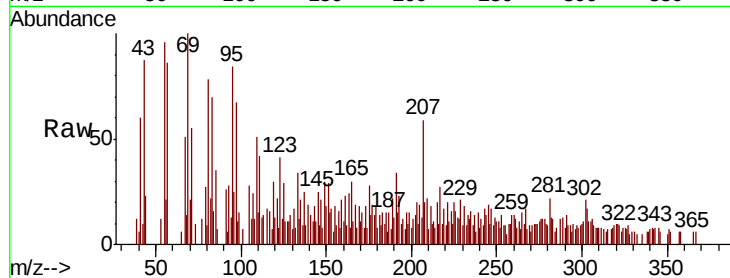
Tgt Ion:149 Resp: 624

Ion Ratio Lower Upper

149 100

167 51.4 1.3 1.9#

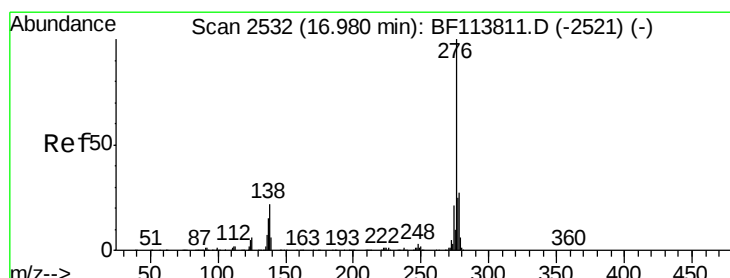
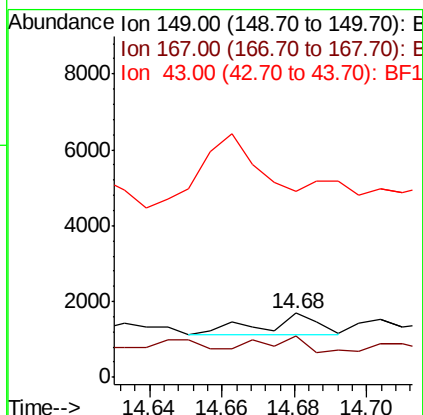
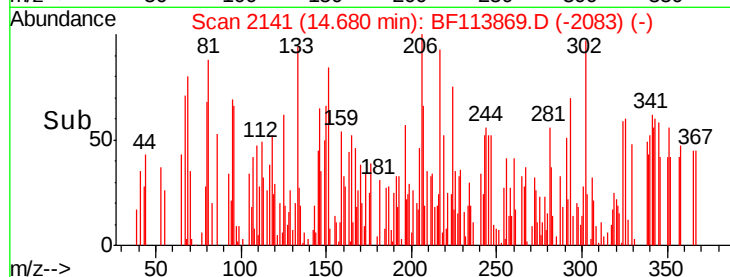
43 363.5 6.6 10.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1



#86

Indeno(1,2,3-cd)pyrene

Concen: 74.827 ng

RT: 17.04 min Scan# 2542

Delta R.T. 0.06 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

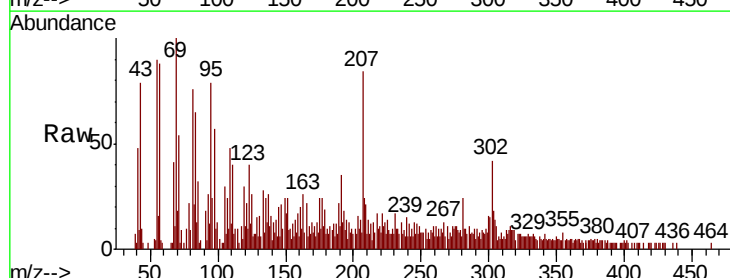
Tgt Ion:276 Resp: 521

Ion Ratio Lower Upper

276 100

138 29.9 19.6 29.4#

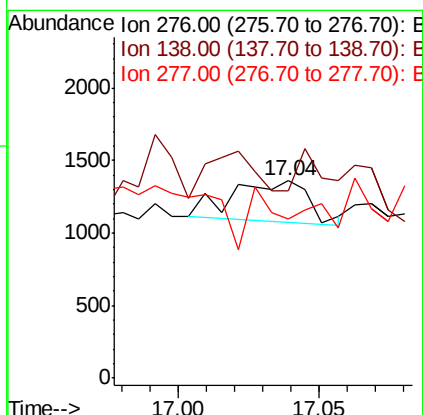
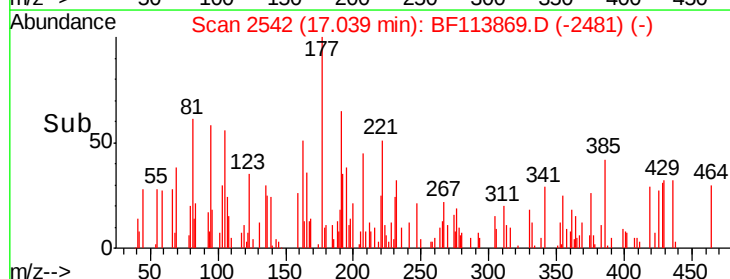
277 0.0 20.2 30.4#

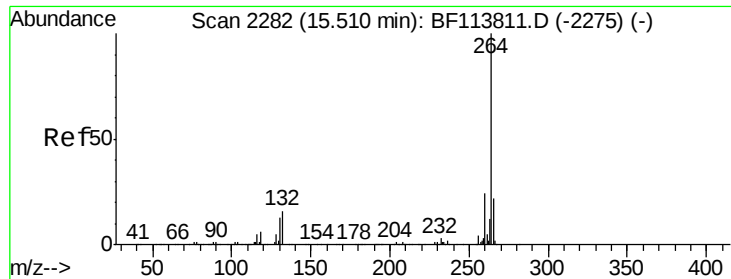


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.54 min Scan# 2288

Delta R.T. 0.04 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

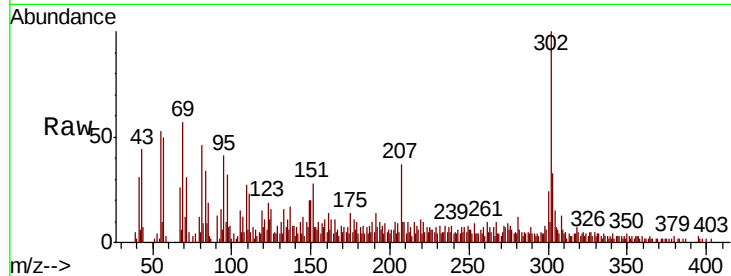
Tgt Ion: 264 Resp: 398

Ion Ratio Lower Upper

264 100

260 67.0 18.9 28.3#

265 134.7 17.3 25.9#

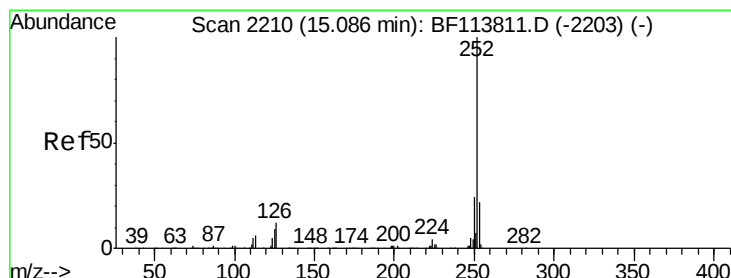
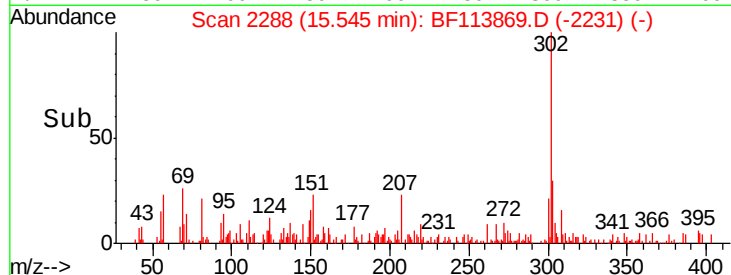
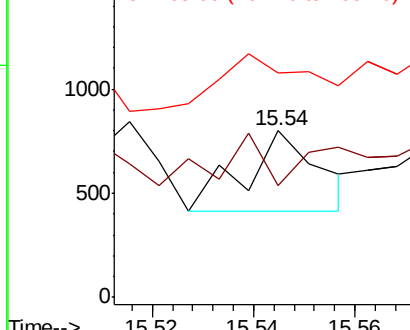


Abundance

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: 11.809 ng

RT: 15.11 min Scan# 2214

Delta R.T. 0.02 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

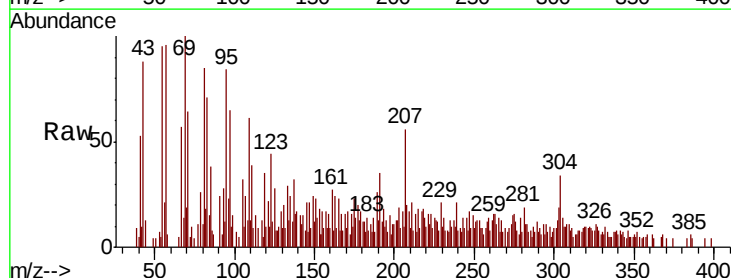
Tgt Ion: 252 Resp: 293

Ion Ratio Lower Upper

252 100

253 104.2 17.8 26.6#

125 223.8 7.0 10.6#

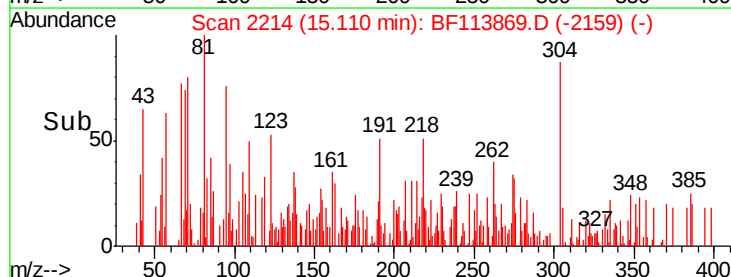
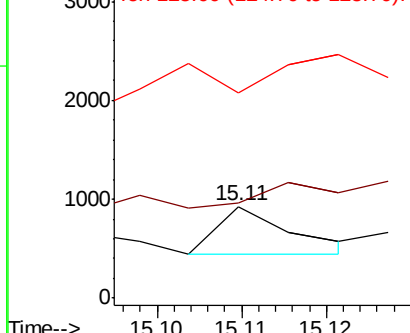


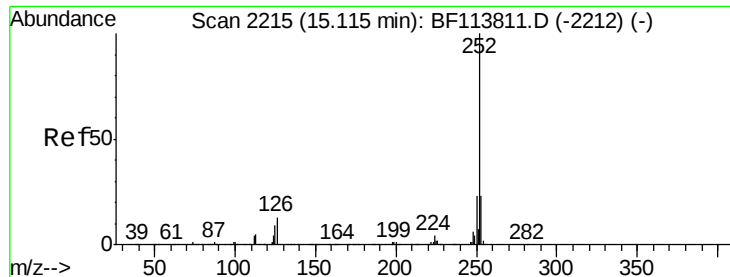
Abundance

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

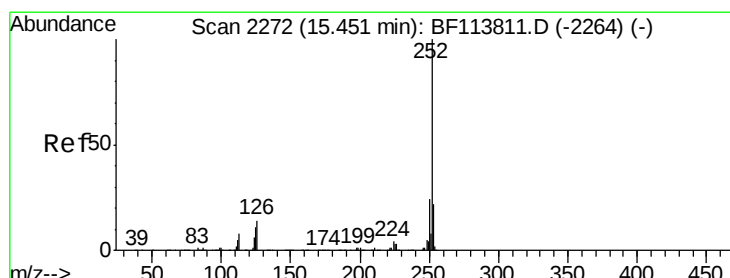
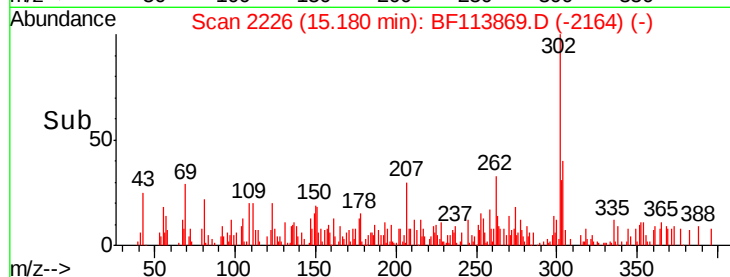
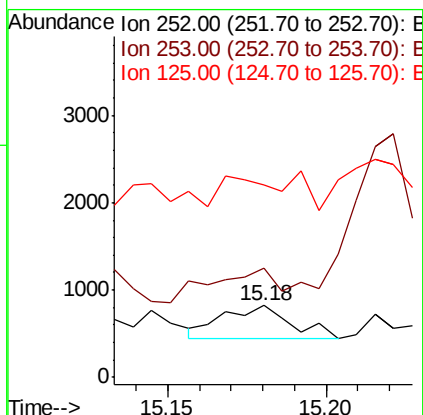
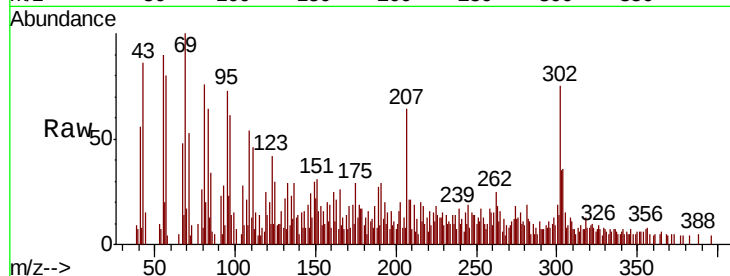




#89
Benzo(k)fluoranthene
Concen: 25.135 ng
RT: 15.18 min Scan# 2226
Delta R.T. 0.06 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

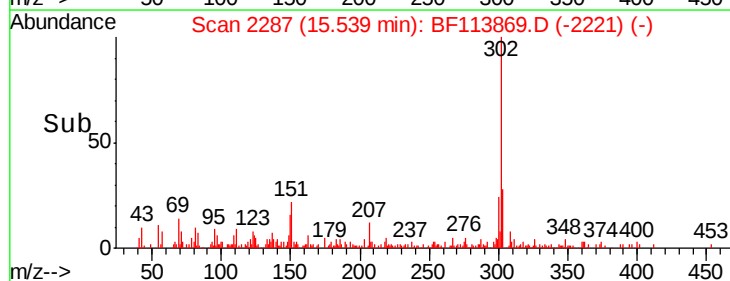
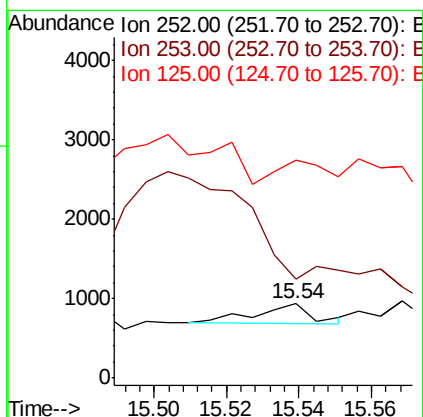
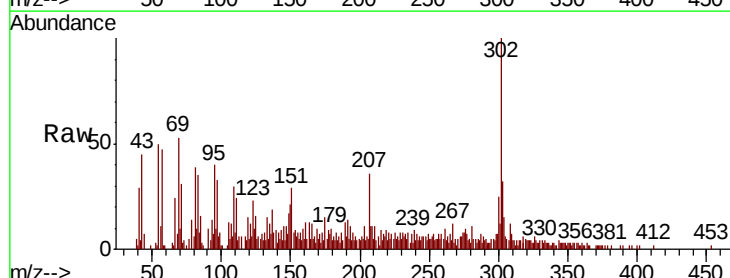
Instrument :
BNA_F
ClientSampleId :
SU-02-041819-A

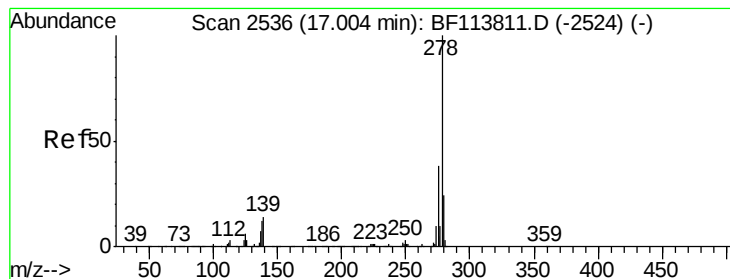
Tgt Ion:252 Resp: 568
Ion Ratio Lower Upper
252 100
253 151.5 18.2 27.2#
125 268.0 7.4 11.2#



#90
Benzo(a)pyrene
Concen: 11.486 ng
RT: 15.54 min Scan# 2287
Delta R.T. 0.09 min
Lab File: BF113869.D
Acq: 19 Apr 2019 19:57

Tgt Ion:252 Resp: 252
Ion Ratio Lower Upper
252 100
253 132.8 17.5 26.3#
125 293.9 8.5 12.7#





#91

Dibenzo(a,h)anthracene

Concen: 5.174 ng

RT: 17.02 min Scan# 2539

Delta R.T. 0.02 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

Instrument :

BNA_F

ClientSampleId :

SU-02-041819-A

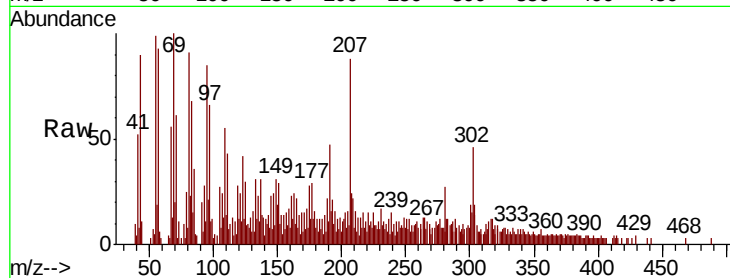
Tgt Ion:278 Resp: 101

Ion Ratio Lower Upper

278 100

139 164.8 11.6 17.4#

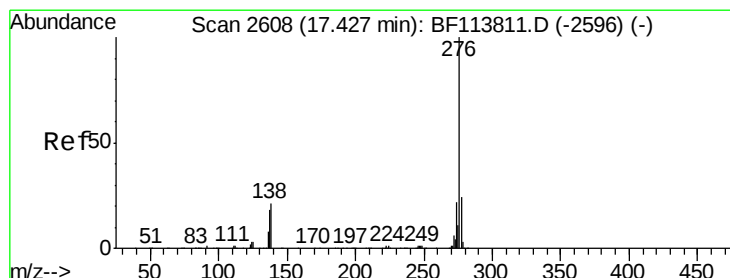
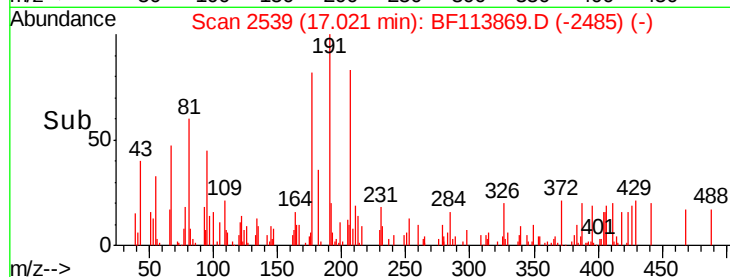
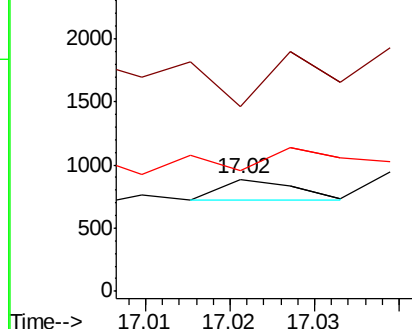
279 107.4 19.0 28.6#



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: 9.425 ng

RT: 17.45 min Scan# 2612

Delta R.T. 0.02 min

Lab File: BF113869.D

Acq: 19 Apr 2019 19:57

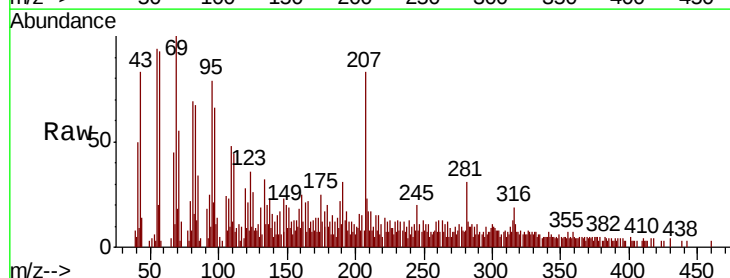
Tgt Ion:276 Resp: 187

Ion Ratio Lower Upper

276 100

277 98.0 19.0 28.4#

138 84.5 16.6 25.0#



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

