

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF020119\
 Data File : BF112360.D
 Acq On : 1 Feb 2019 19:13
 Operator : JU/SJ
 Sample : K1011-15 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-013119-B

Quant Time: Feb 01 23:21:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	157638	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	621241	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	281344	20.00	ng	-0.01
64) Phenanthrene-d10	11.36	188	448614	20.00	ng	0.00
76) Chrysene-d12	14.00	240	333357	20.00	ng	0.00
87) Perylene-d12	15.47	264	318409	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	98505	13.27	ng	-0.01
7) Phenol-d6	6.49	99	121392	11.77	ng	0.00
23) Nitrobenzene-d5	7.40	82	71037	6.59	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	31420	9.59	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	168254	8.46	ng	-0.01
79) Terphenyl-d14	12.94	244	124395	7.03	ng	-0.01

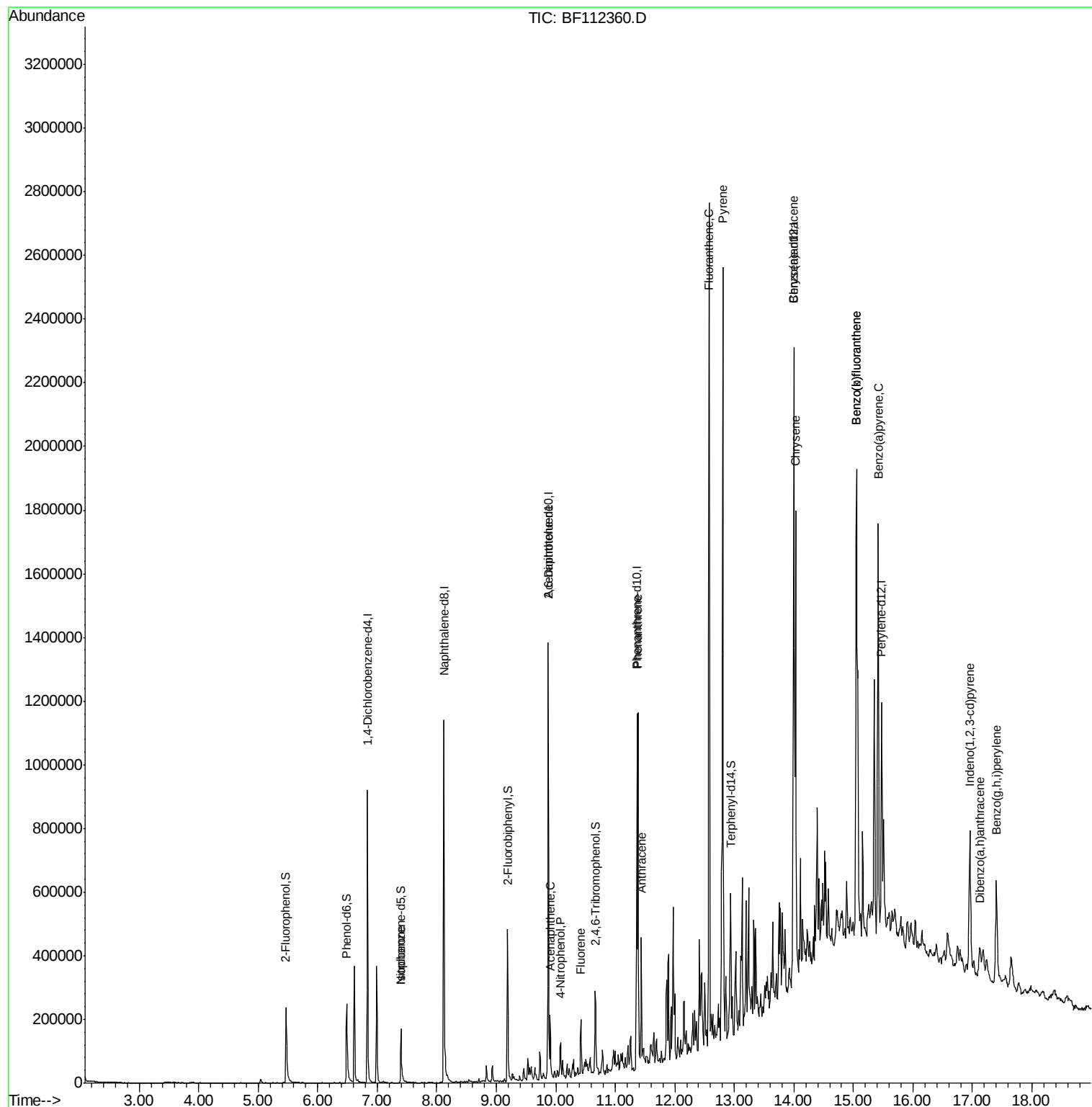
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.40	82	71036	4.200	ng	# 63
51) 2,6-Dinitrotoluene	9.87	165	38648	7.894	ng	# 35
52) Acenaphthene	9.90	154	37801	2.264	ng	93
56) 4-Nitrophenol	10.08	139	15464	5.515	ng	# 16
58) Fluorene	10.42	166	51380	2.690	ng	98
71) Phenanthrene	11.39	178	445402	19.097	ng	97
72) Anthracene	11.43	178	157343	6.773	ng	98
75) Fluoranthene	12.57	202	1053374	42.110	ng	100
78) Pyrene	12.80	202	1072631	46.475	ng	99
81) Benzo(a)anthracene	13.99	228	718967	36.689	ng	98
83) Chrysene	14.03	228	596571	31.892	ng	98
86) Indeno(1,2,3-cd)pyrene	16.96	276	276686	18.667	ng	# 92
88) Benzo(b)fluoranthene	15.05	252	1126427	59.154	ng	98
89) Benzo(k)fluoranthene	15.05	252	1126427	61.757	ng	99
90) Benzo(a)pyrene	15.42	252	617607	36.045	ng	98
91) Dibenzo(a,h)anthracene	17.12	278	67851	4.913	ng	93
92) Benzo(g,h,i)perylene	17.40	276	255711	19.627	ng	98

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

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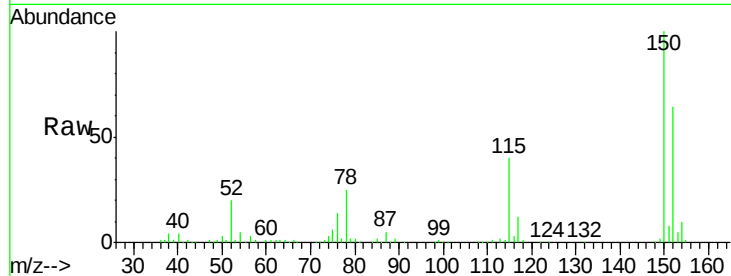




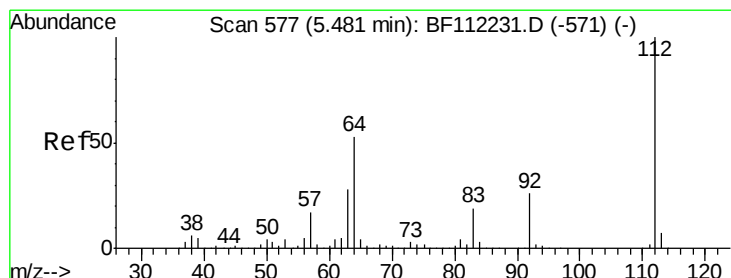
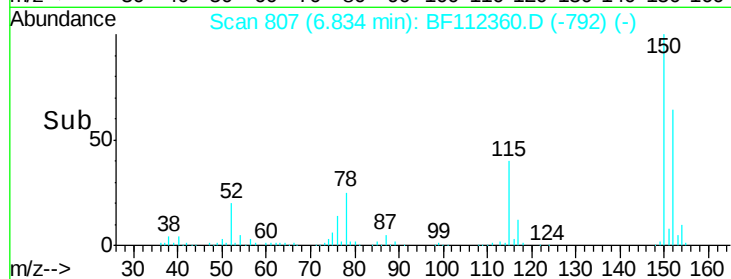
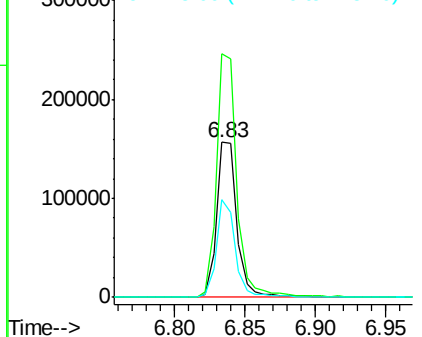
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.83 min Scan# 807
 Delta R.T. -0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-013119-B

Tgt Ion:152 Resp: 157638
 Ion Ratio Lower Upper
 152 100
 150 157.2 127.4 191.0
 115 63.0 45.5 68.3

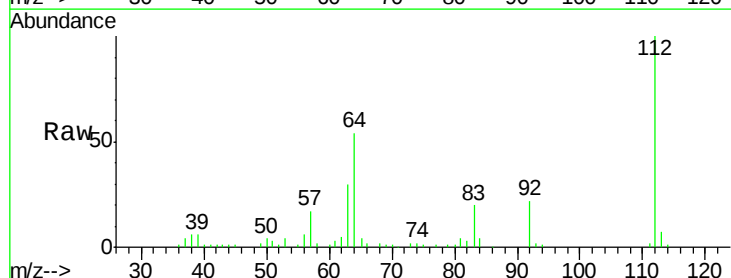


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

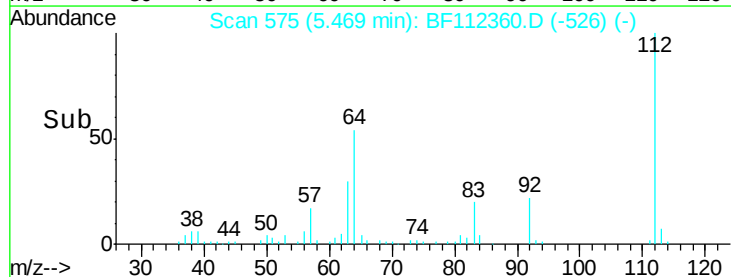
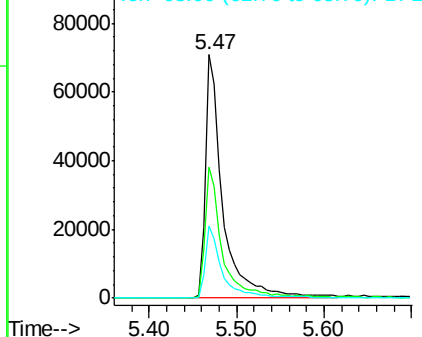


#5
 2-Fluorophenol
 Concen: 13.273 ng
 RT: 5.47 min Scan# 575
 Delta R.T. -0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Tgt Ion:112 Resp: 98505
 Ion Ratio Lower Upper
 112 100
 64 53.7 45.7 68.5
 63 29.8 23.6 35.4



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: 11.771 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

Instrument :

BNA_F

ClientSampleId :

OR-02-013119-B

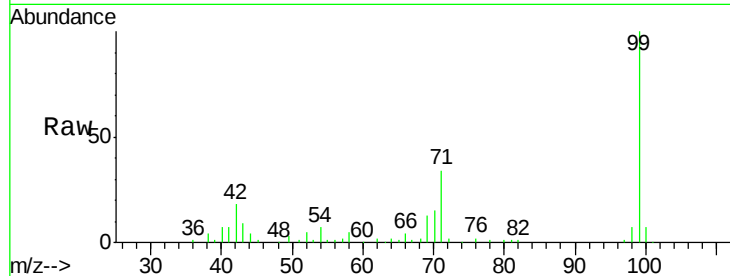
Tgt Ion: 99 Resp: 121392

Ion Ratio Lower Upper

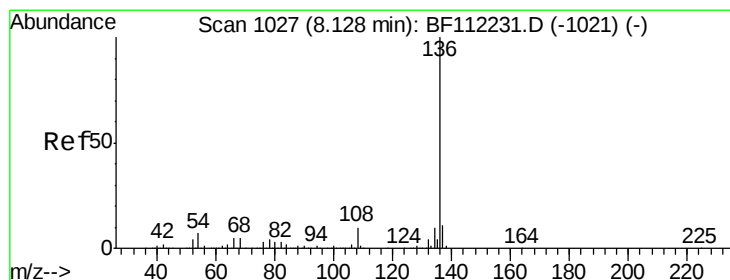
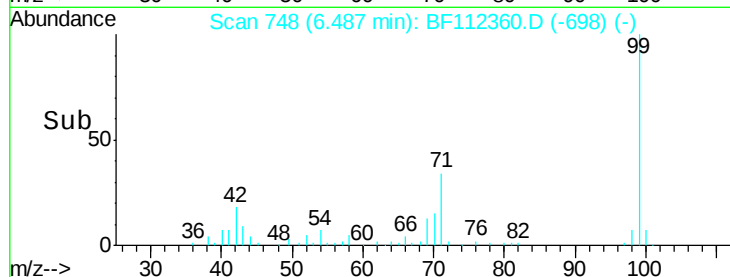
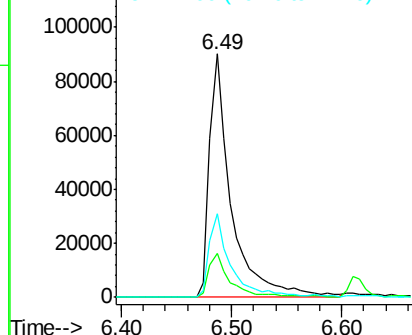
99 100

42 18.1 15.1 22.7

71 34.1 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: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

Tgt Ion: 136 Resp: 621241

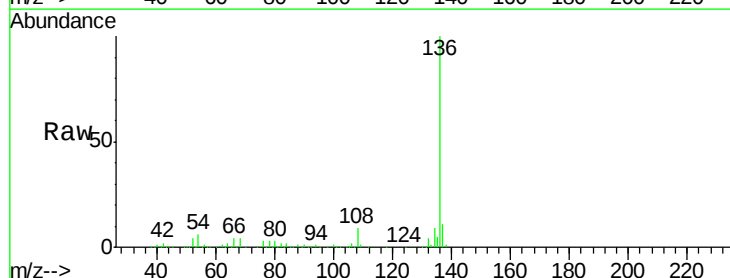
Ion Ratio Lower Upper

136 100

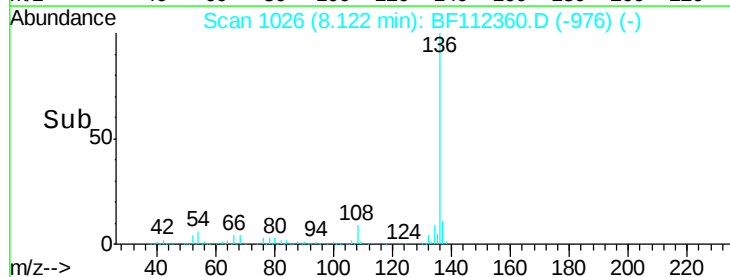
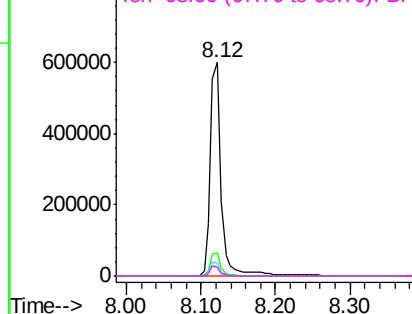
137 10.6 9.1 13.7

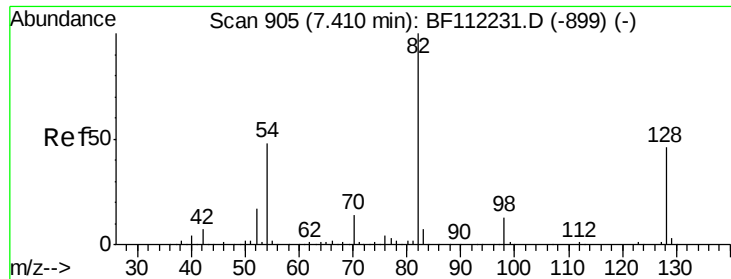
54 5.7 5.9 8.9#

68 4.4 5.1 7.7#



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

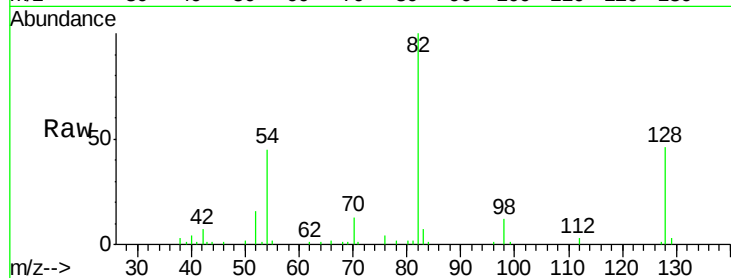




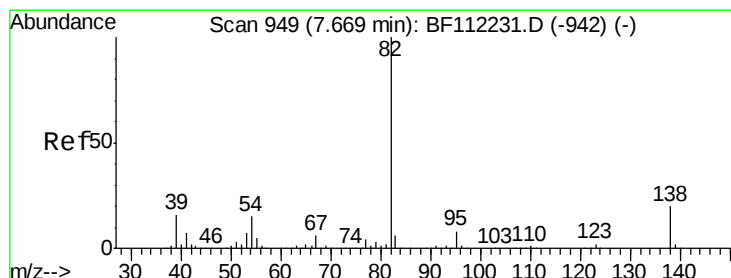
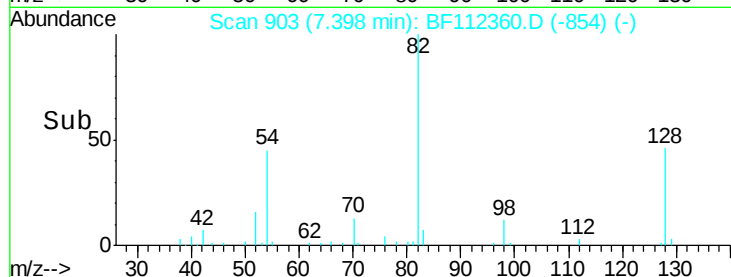
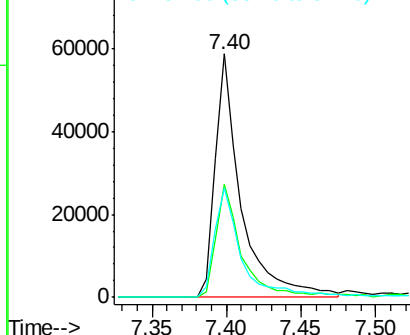
#23
 Nitrobenzene-d5
 Concen: 6.589 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Instrument :
 BNA_F
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 OR-02-013119-B

Tgt Ion: 82 Resp: 71037
 Ion Ratio Lower Upper
 82 100
 128 46.4 37.8 56.8
 54 44.8 39.7 59.5

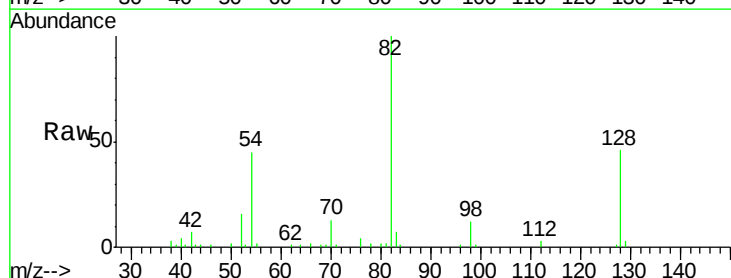


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

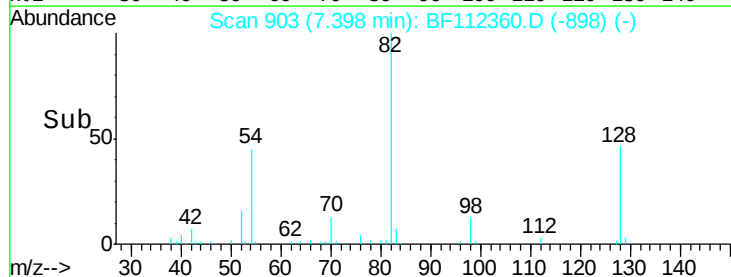
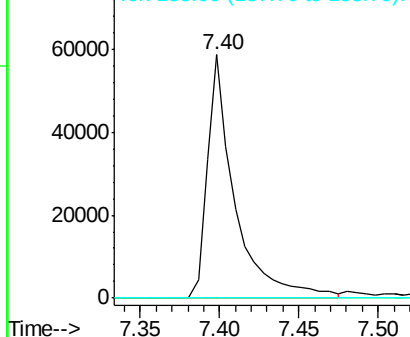


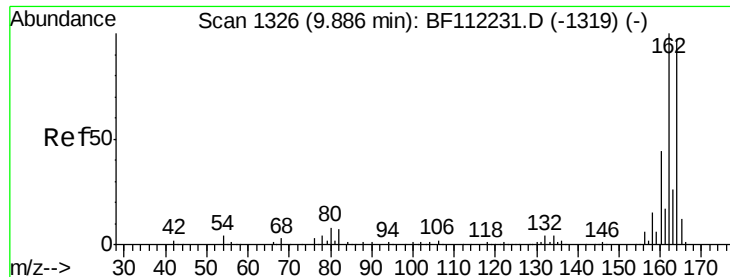
#25
 Isophorone
 Concen: 4.200 ng
 RT: 7.40 min Scan# 903
 Delta R.T. -0.27 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Tgt Ion: 82 Resp: 71036
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.7 8.5#
 138 0.0 15.4 23.0#



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

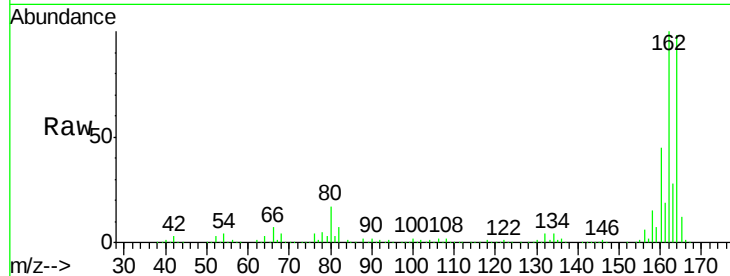




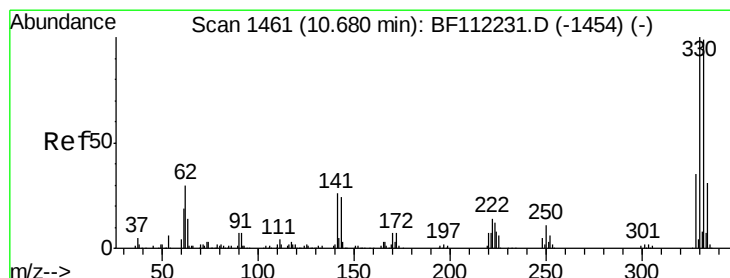
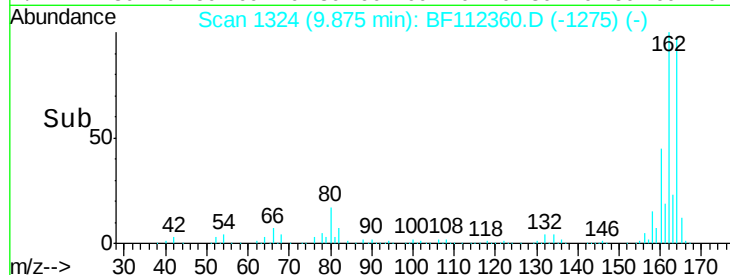
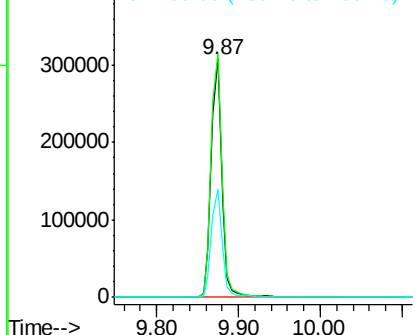
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-013119-B

Tgt Ion:164 Resp: 281344
 Ion Ratio Lower Upper
 164 100
 162 102.3 82.2 123.4
 160 45.5 36.2 54.4

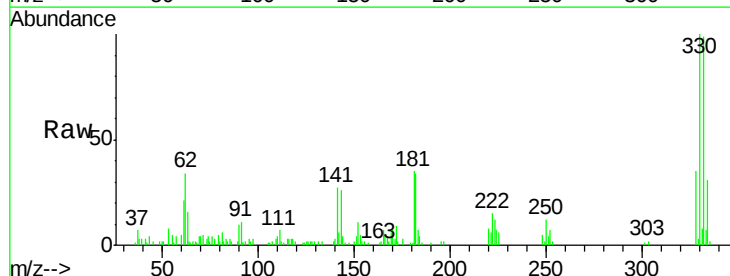


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

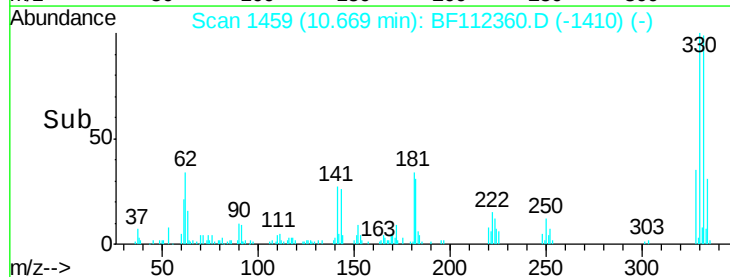
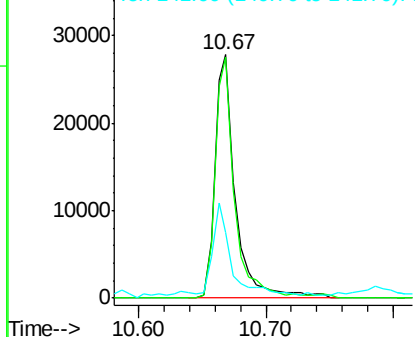


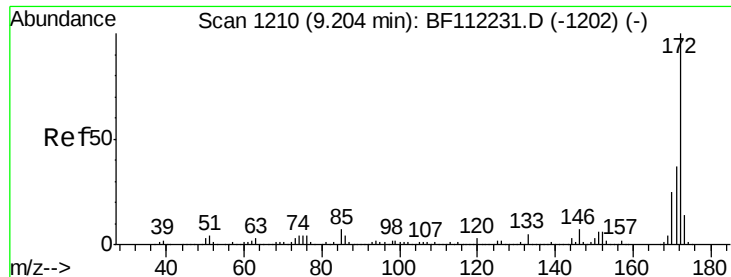
#42
 2,4,6-Tribromophenol
 Concen: 9.595 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Tgt Ion:330 Resp: 31420
 Ion Ratio Lower Upper
 330 100
 332 94.2 76.6 114.8
 141 35.3 24.3 36.5



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

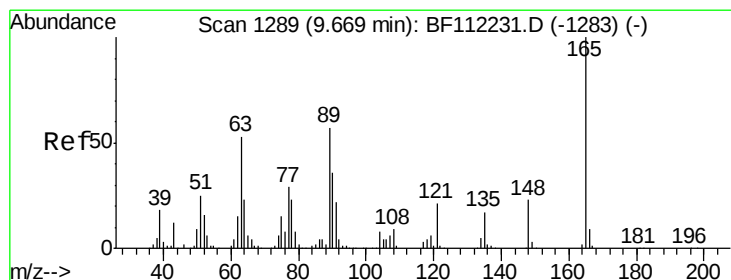
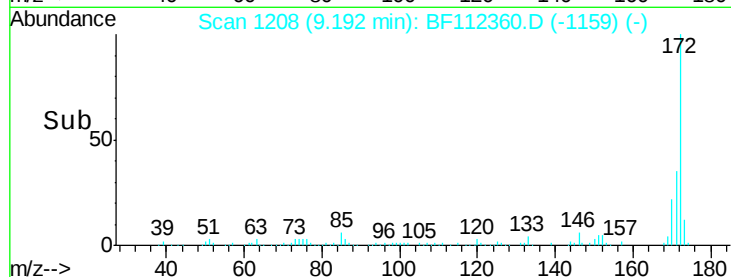
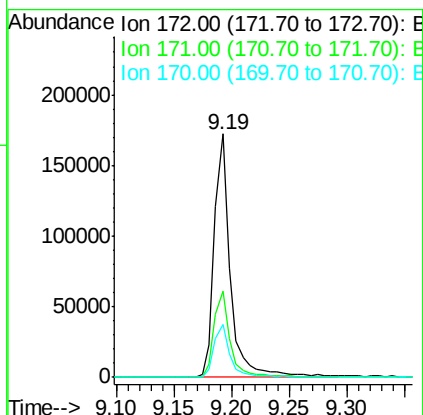
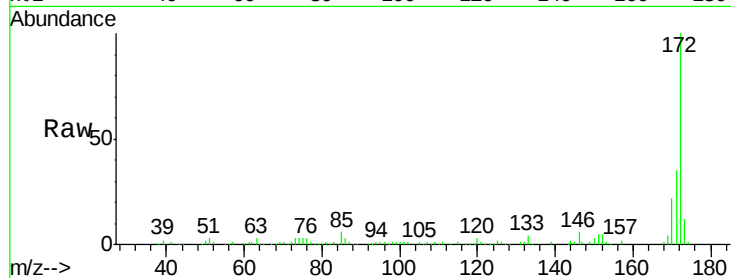




#45
2-Fluorobiphenyl
Concen: 8.458 ng
RT: 9.19 min Scan# 1208
Delta R.T. -0.01 min
Lab File: BF112360.D
Acq: 1 Feb 2019 19:13

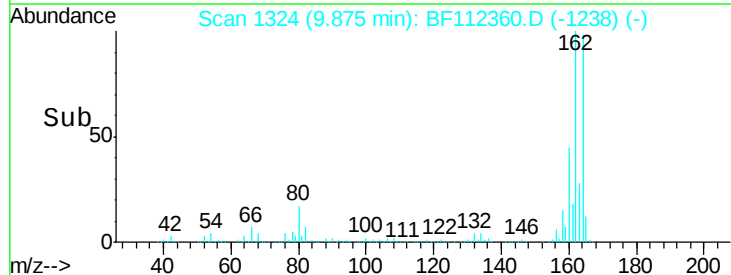
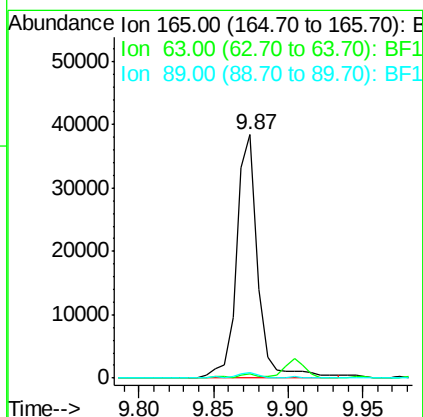
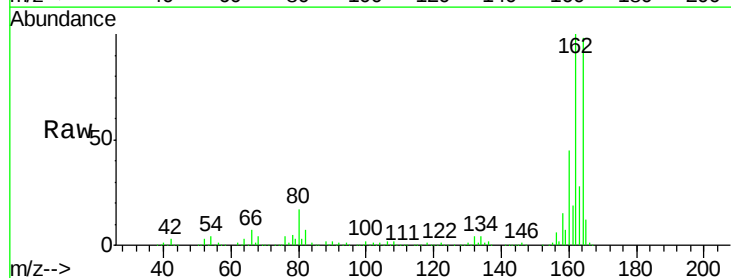
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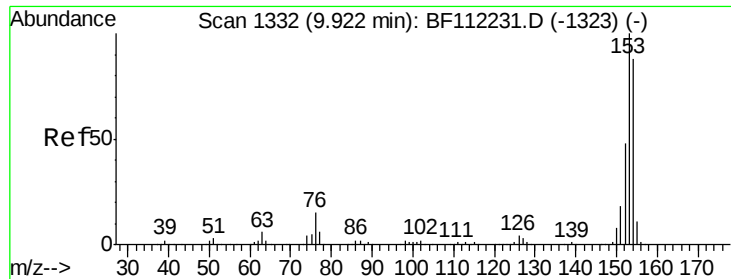
Tgt Ion:172 Resp: 168254
Ion Ratio Lower Upper
172 100
171 35.3 30.5 45.7
170 21.7 20.2 30.4



#51
2,6-Dinitrotoluene
Concen: 7.894 ng
RT: 9.87 min Scan# 1324
Delta R.T. 0.21 min
Lab File: BF112360.D
Acq: 1 Feb 2019 19:13

Tgt Ion:165 Resp: 38648
Ion Ratio Lower Upper
165 100
63 1.8 33.8 50.8#
89 2.1 36.9 55.3#





#52

Acenaphthene

Concen: 2.264 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

Instrument :

BNA_F

ClientSampleId :

OR-02-013119-B

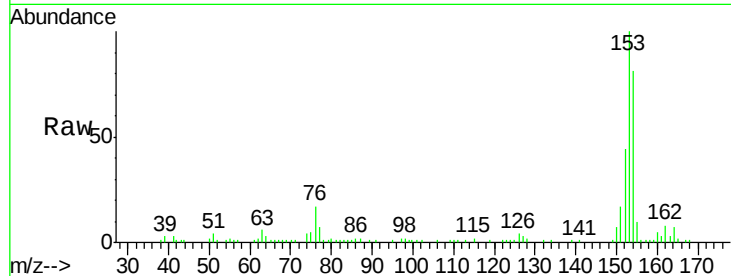
Tgt Ion:154 Resp: 37801

Ion Ratio Lower Upper

154 100

153 123.7 89.8 134.6

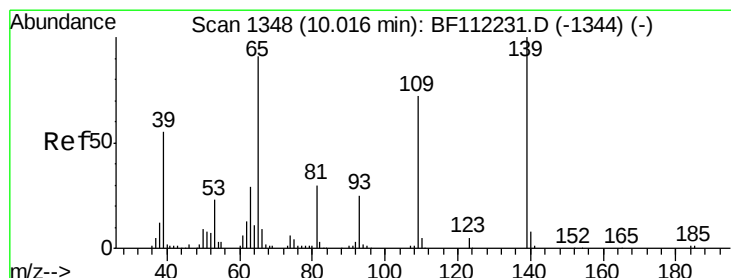
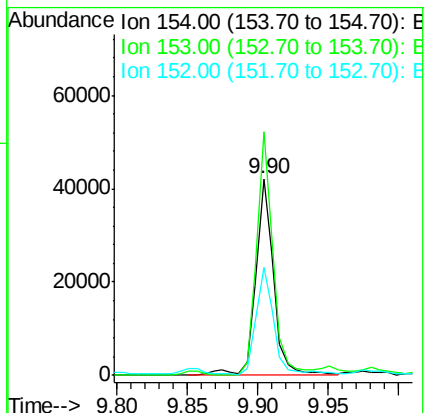
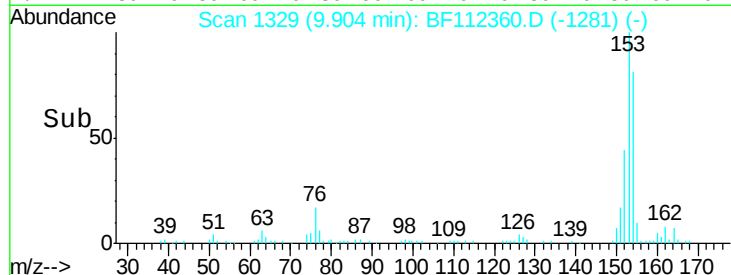
152 54.6 43.5 65.3



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



#56

4-Nitrophenol

Concen: 5.515 ng

RT: 10.08 min Scan# 1359

Delta R.T. 0.06 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

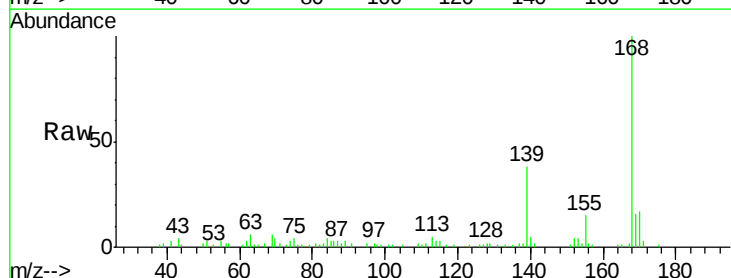
Tgt Ion:139 Resp: 15464

Ion Ratio Lower Upper

139 100

109 4.7 42.8 82.8#

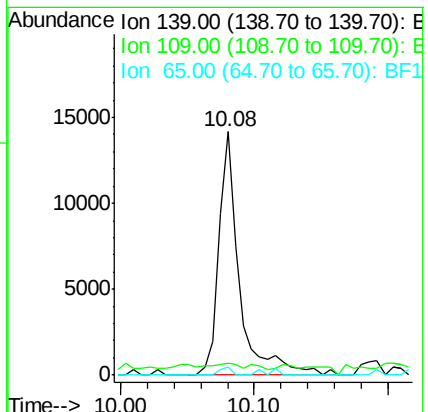
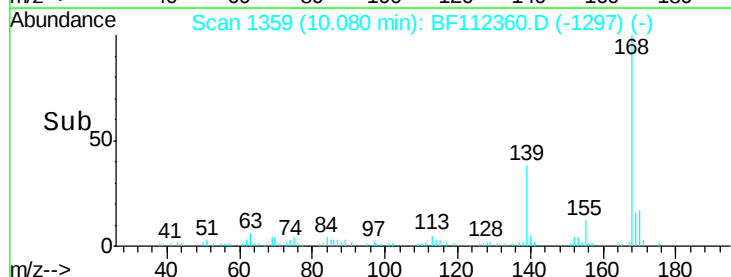
65 3.3 66.1 106.1#

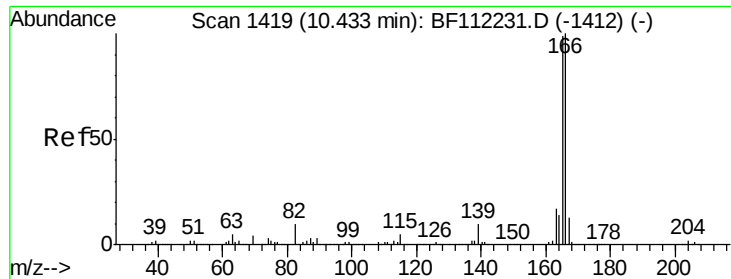


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





#58

Fluorene

Concen: 2.690 ng

RT: 10.42 min Scan# 1417

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

Instrument :

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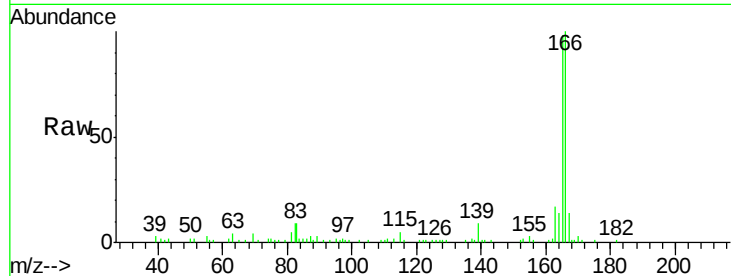
Tgt Ion:166 Resp: 51380

Ion Ratio Lower Upper

166 100

165 98.0 77.1 115.7

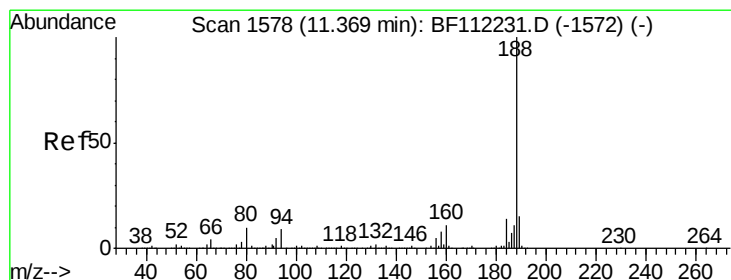
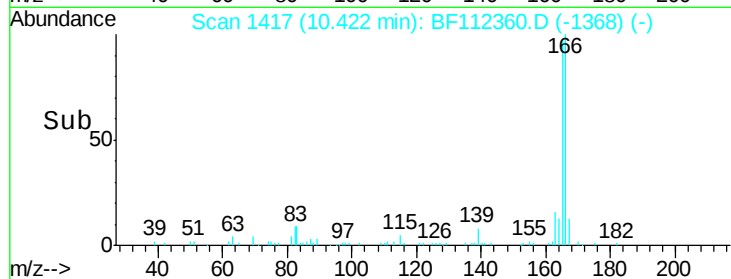
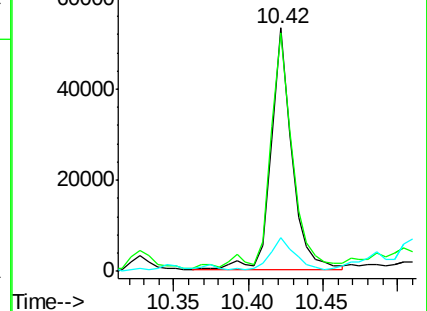
167 13.9 11.3 16.9



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: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

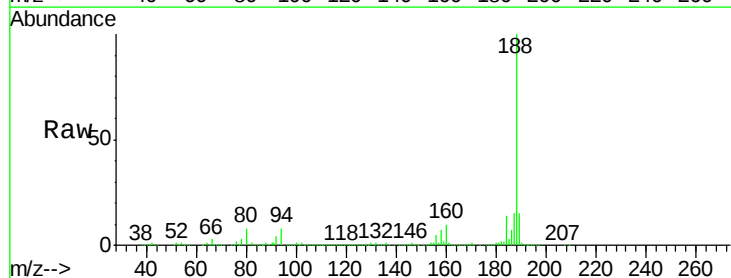
Tgt Ion:188 Resp: 448614

Ion Ratio Lower Upper

188 100

94 7.8 8.2 12.2#

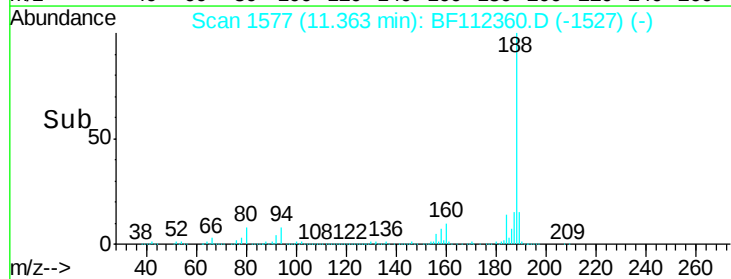
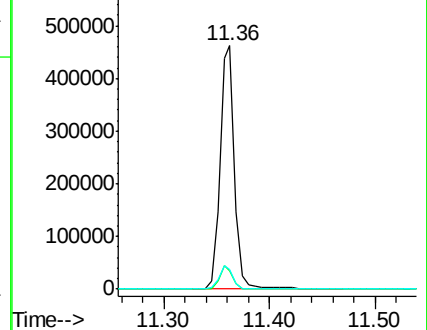
80 8.0 8.9 13.3#

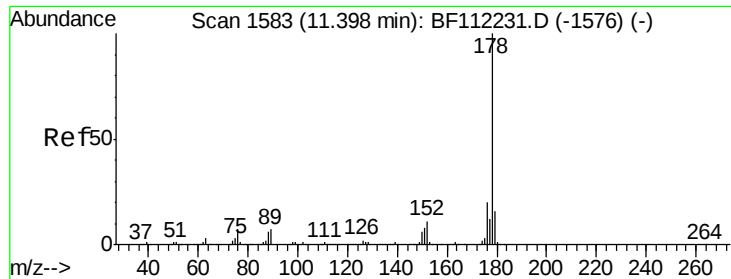


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

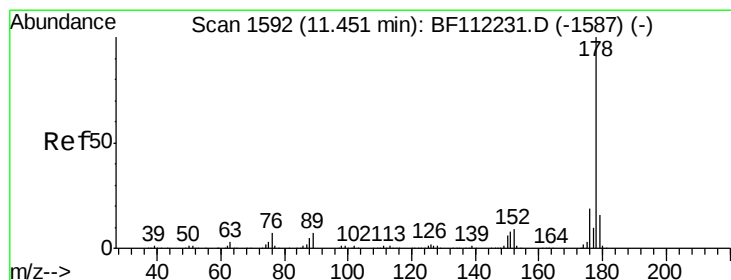
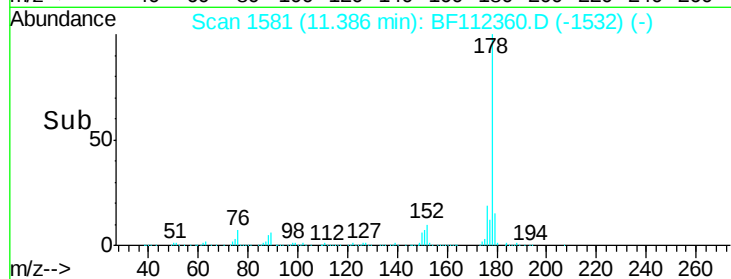
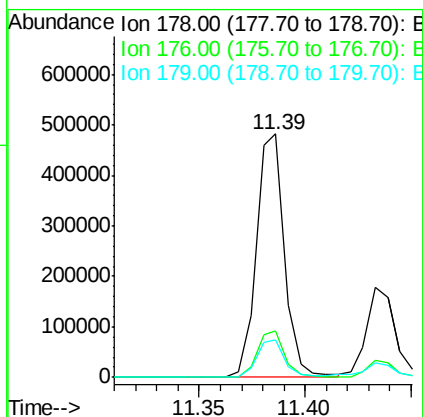
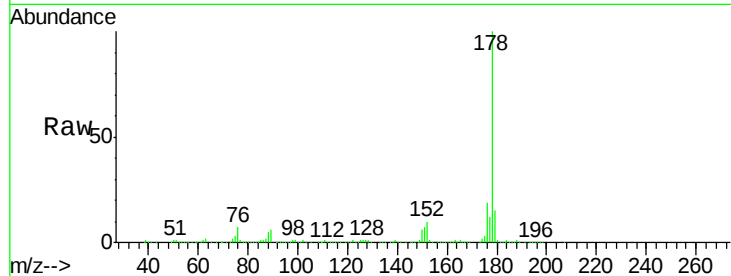




#71
Phenanthrene
Concen: 19.097 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF112360.D
Acq: 1 Feb 2019 19:13

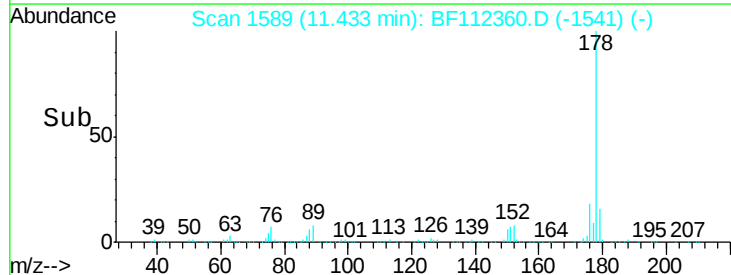
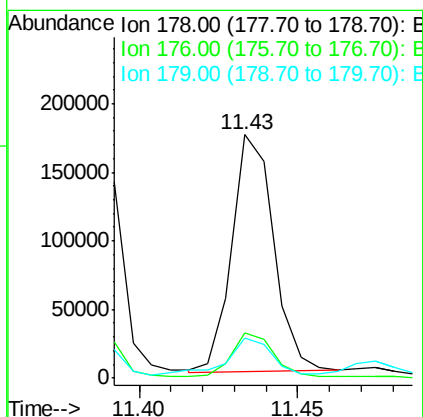
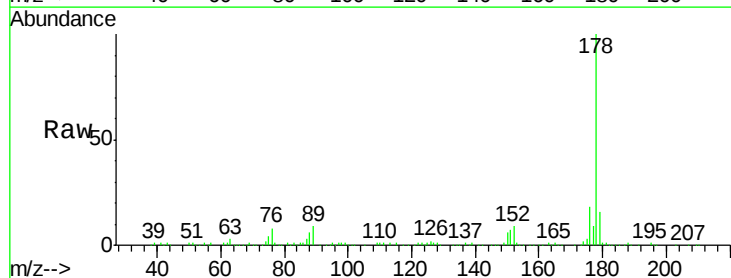
Instrument :
BNA_F
ClientSampleId :
OR-02-013119-B

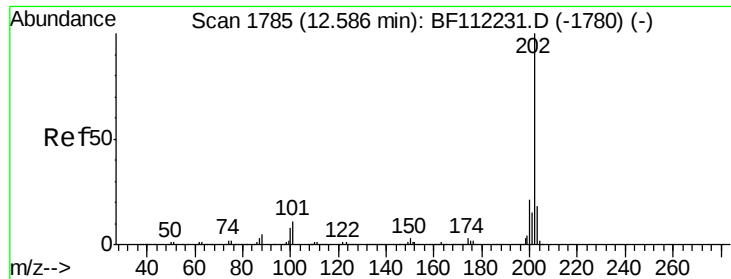
Tgt Ion:178 Resp: 445402
Ion Ratio Lower Upper
178 100
176 18.9 16.3 24.5
179 15.5 13.0 19.4



#72
Anthracene
Concen: 6.773 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF112360.D
Acq: 1 Feb 2019 19:13

Tgt Ion:178 Resp: 157343
Ion Ratio Lower Upper
178 100
176 18.3 15.5 23.3
179 16.2 12.8 19.2





#75

Fluoranthene

Concen: 42.110 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

Instrument :

BNA_F

ClientSampleId :

OR-02-013119-B

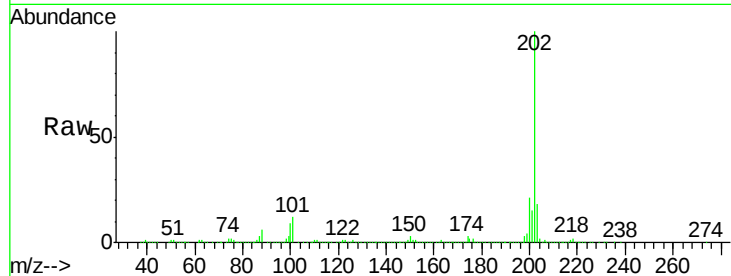
Tgt Ion:202 Resp: 1053374

Ion Ratio Lower Upper

202 100

101 11.8 0.0 31.8

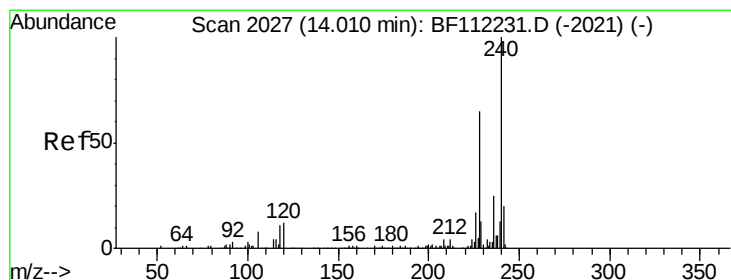
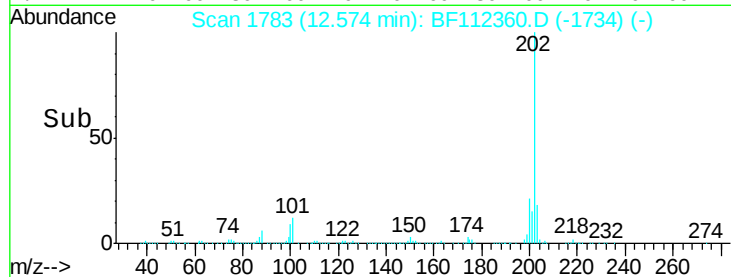
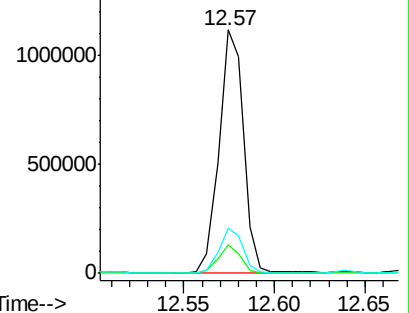
203 18.4 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

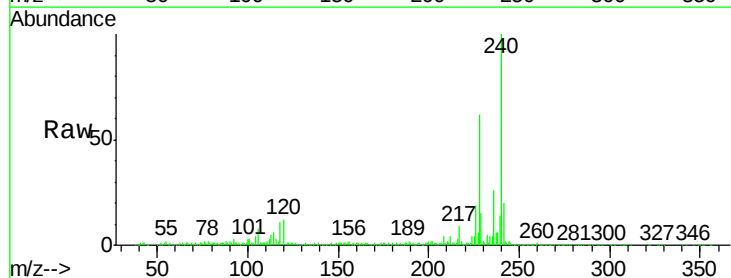
Tgt Ion:240 Resp: 333357

Ion Ratio Lower Upper

240 100

120 12.2 9.0 13.6

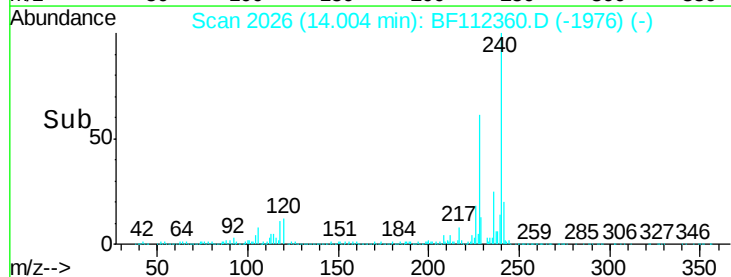
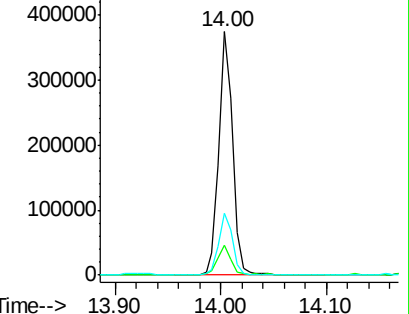
236 25.5 20.7 31.1

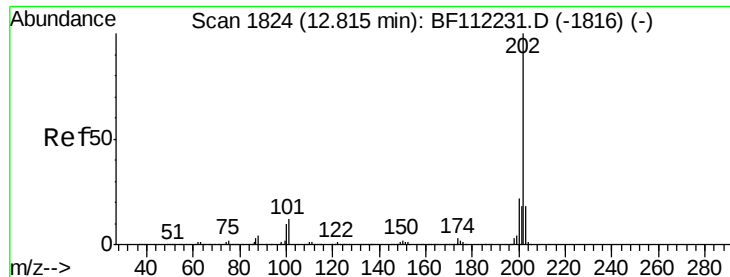


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

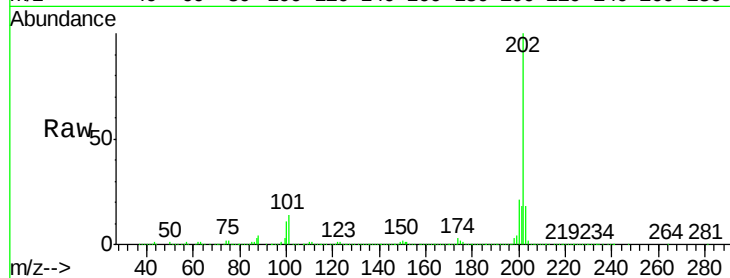




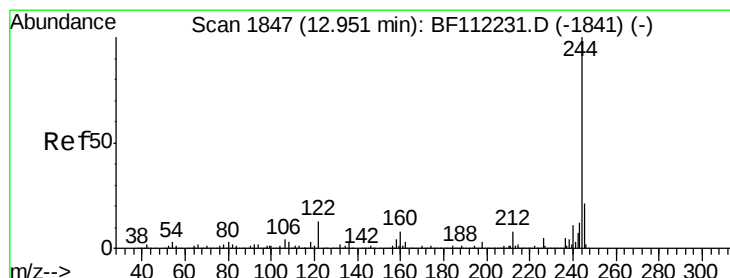
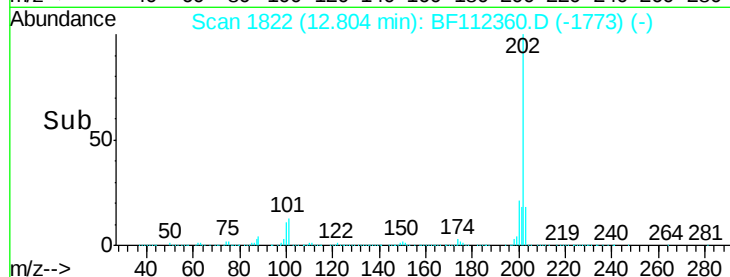
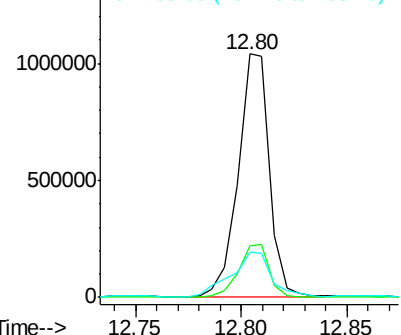
#78
 Pyrene
 Concen: 46.475 ng
 RT: 12.80 min Scan# 1822
 Delta R.T. -0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-013119-B

Tgt Ion:202 Resp: 1072631
 Ion Ratio Lower Upper
 202 100
 200 21.1 17.7 26.5
 203 18.3 14.6 22.0

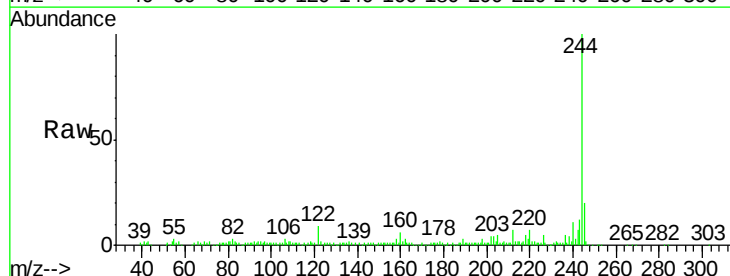


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

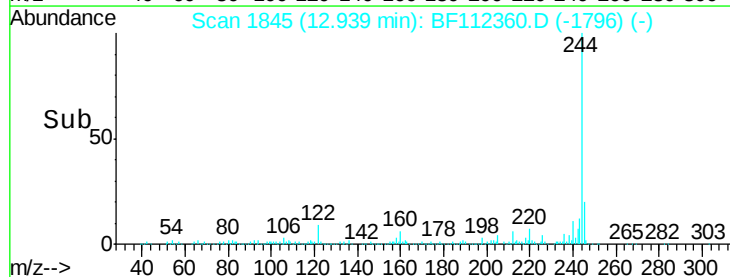
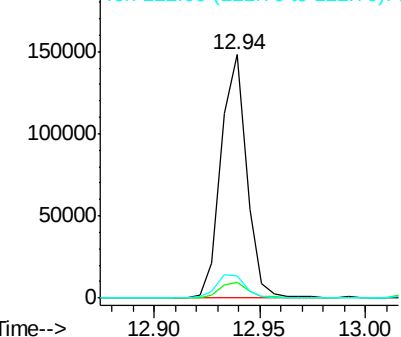


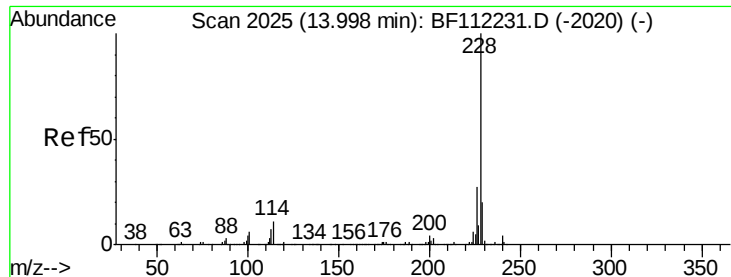
#79
 Terphenyl-d14
 Concen: 7.028 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Tgt Ion:244 Resp: 124395
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.9 8.9
 122 9.2 9.8 14.6#



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: 36.689 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

Instrument :

BNA_F

ClientSampleId :

OR-02-013119-B

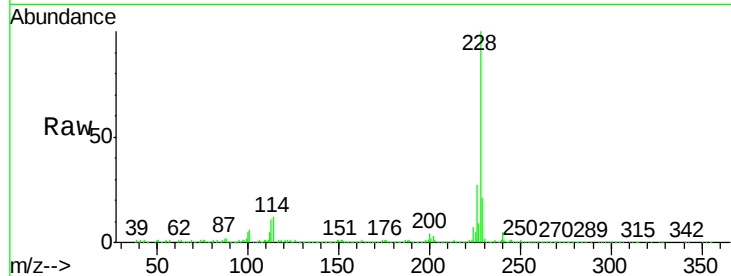
Tgt Ion:228 Resp: 718967

Ion Ratio Lower Upper

228 100

226 27.1 22.6 34.0

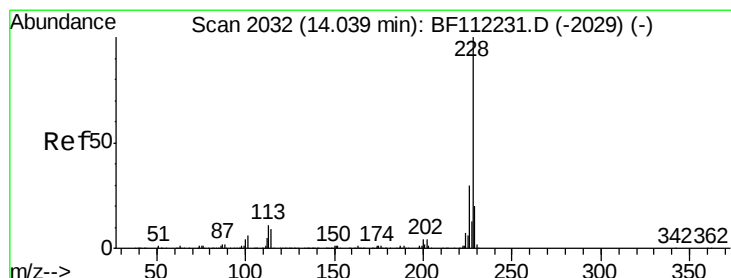
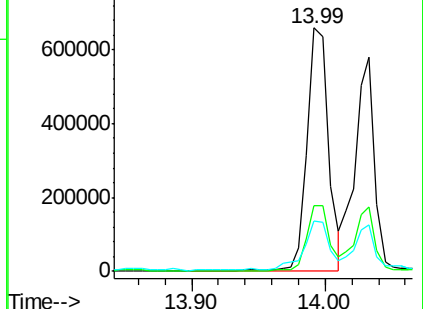
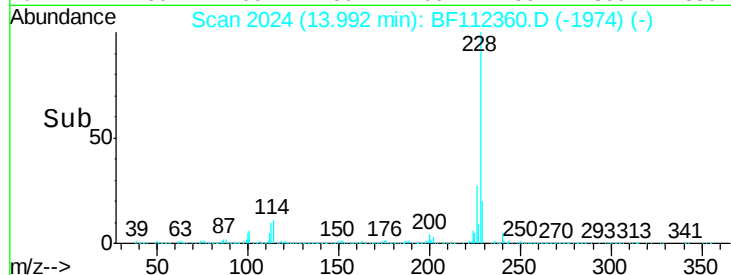
229 20.9 16.5 24.7



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: 31.892 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

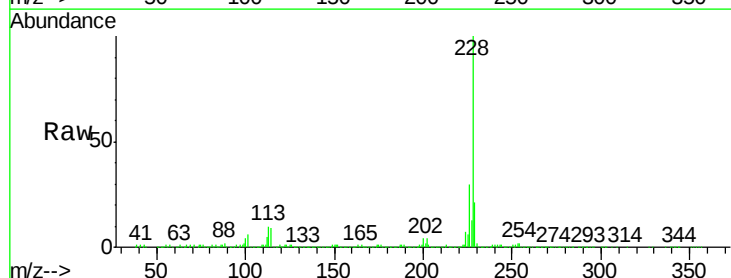
Tgt Ion:228 Resp: 596571

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

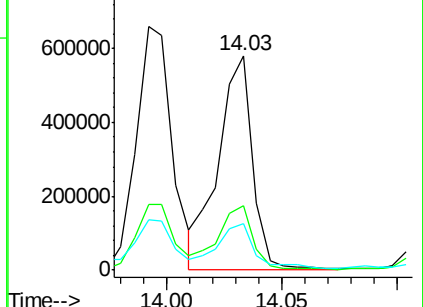
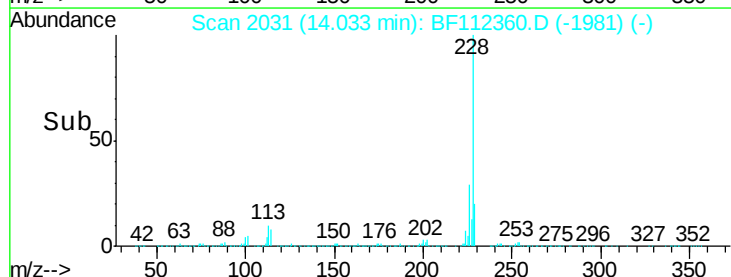
229 21.5 16.6 24.8

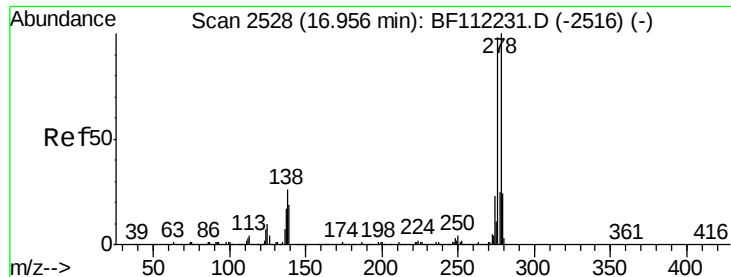


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

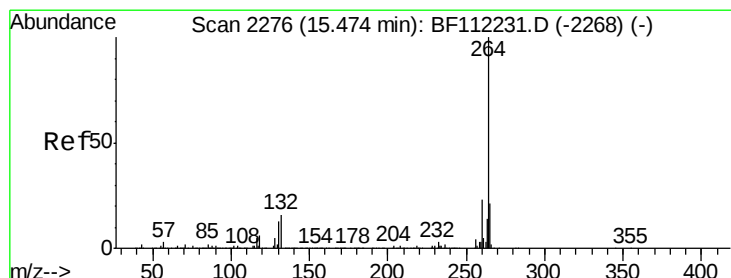
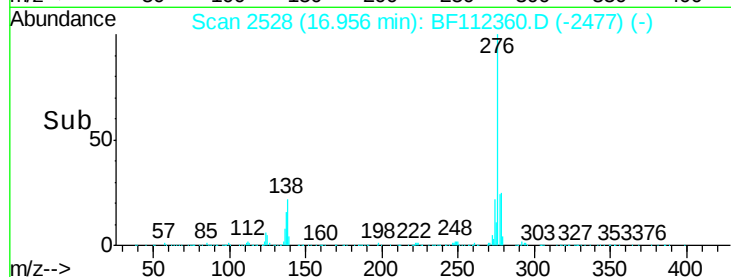
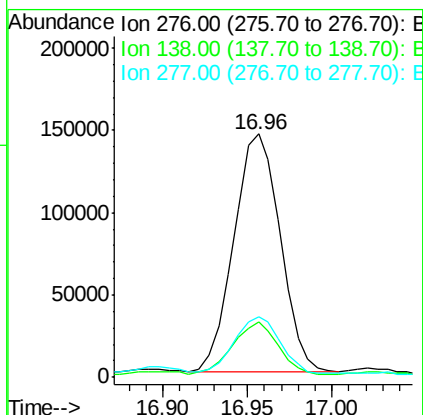
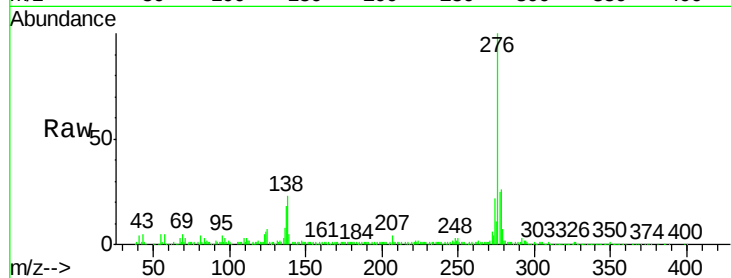




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 18.667 ng
 RT: 16.96 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

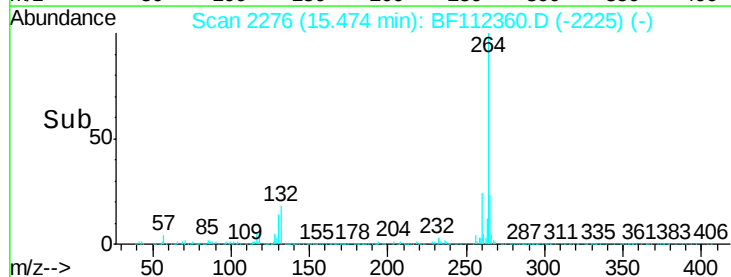
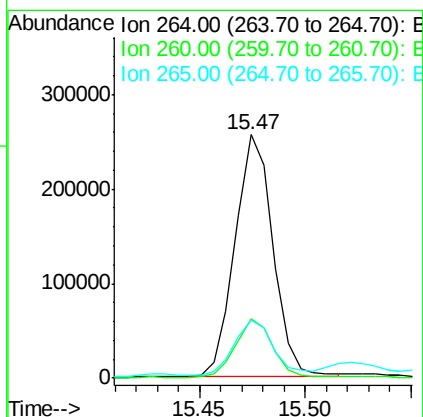
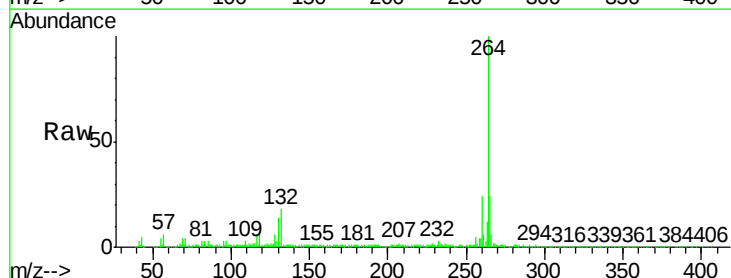
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-013119-B

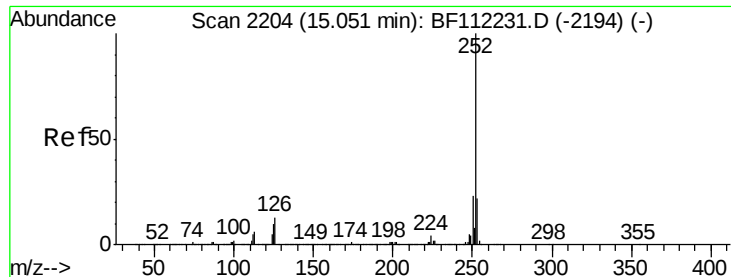
Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.7	22.6	34.0#
277	24.4	20.3	30.5



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2276
 Delta R.T. 0.00 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.2	27.2
265	23.7	17.0	25.4

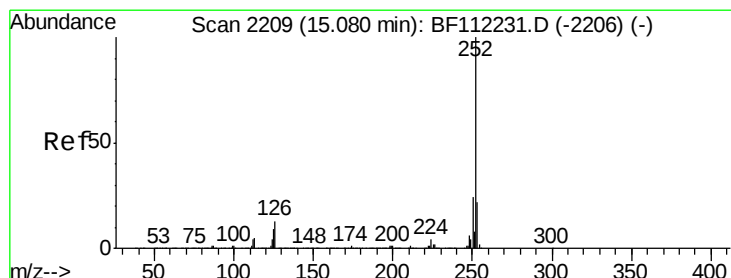
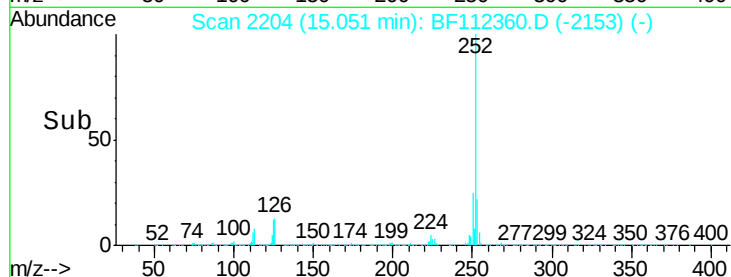
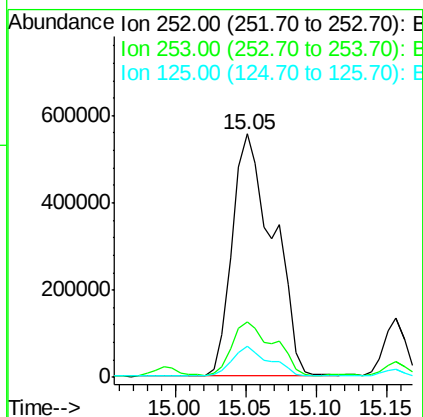
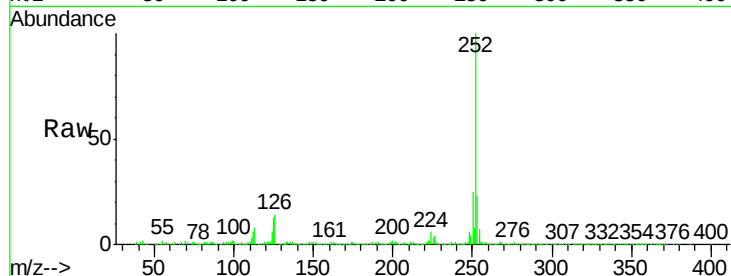




#88
Benzo(b)fluoranthene
Concen: 59.154 ng
RT: 15.05 min Scan# 2204
Delta R.T. 0.00 min
Lab File: BF112360.D
Acq: 1 Feb 2019 19:13

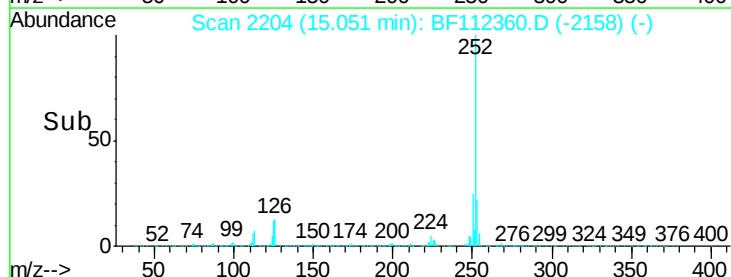
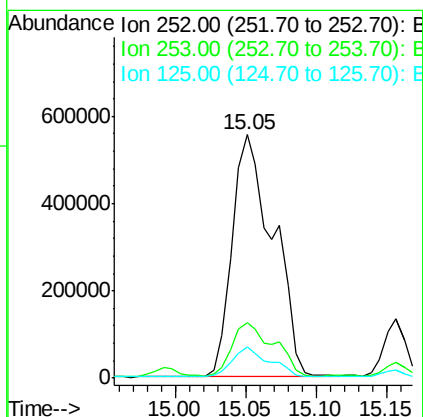
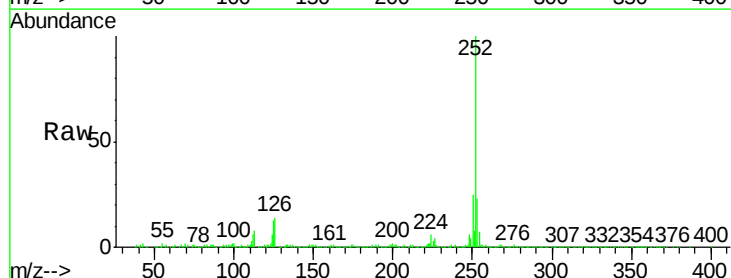
Instrument :
BNA_F
ClientSampleId :
OR-02-013119-B

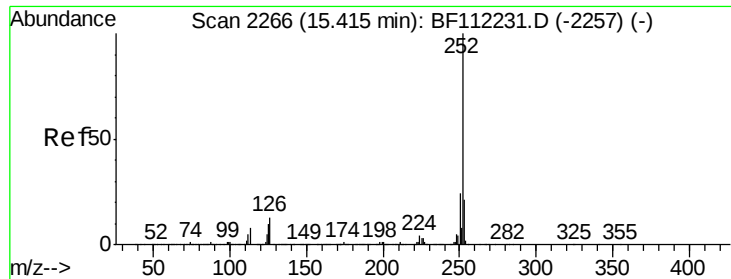
Tgt Ion:252 Resp: 1126427
Ion Ratio Lower Upper
252 100
253 22.8 18.0 27.0
125 12.5 8.7 13.1



#89
Benzo(k)fluoranthene
Concen: 61.757 ng
RT: 15.05 min Scan# 2204
Delta R.T. -0.03 min
Lab File: BF112360.D
Acq: 1 Feb 2019 19:13

Tgt Ion:252 Resp: 1126427
Ion Ratio Lower Upper
252 100
253 22.8 18.0 27.0
125 12.5 9.1 13.7





#90

Benzo(a)pyrene

Concen: 36.045 ng

RT: 15.42 min Scan# 2266

Delta R.T. 0.00 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

Instrument :

BNA_F

ClientSampleId :

OR-02-013119-B

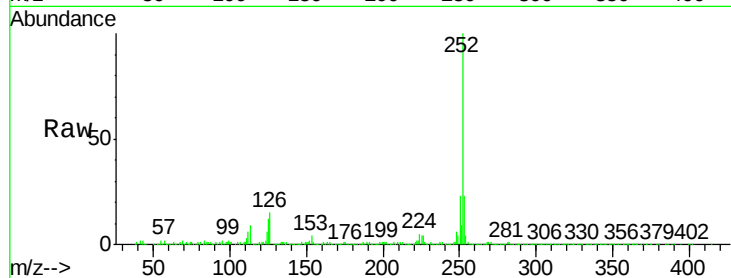
Tgt Ion:252 Resp: 617607

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

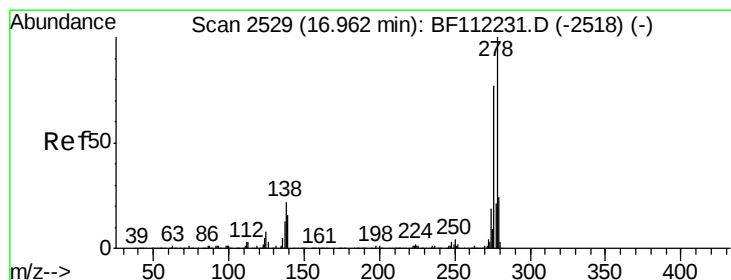
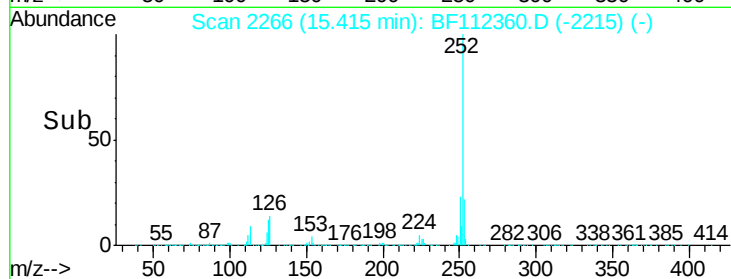
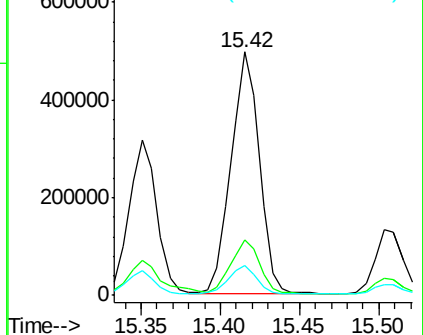
125 12.4 9.0 13.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 4.913 ng

RT: 17.12 min Scan# 2556

Delta R.T. 0.16 min

Lab File: BF112360.D

Acq: 1 Feb 2019 19:13

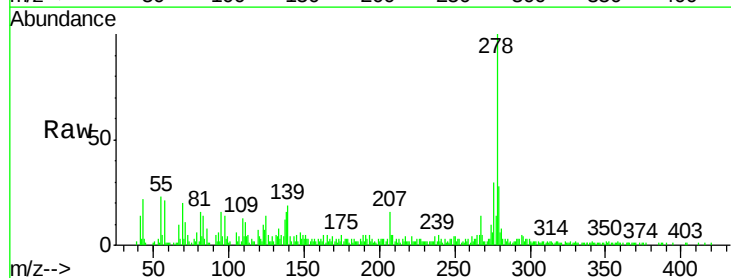
Tgt Ion:278 Resp: 67851

Ion Ratio Lower Upper

278 100

139 19.1 13.7 20.5

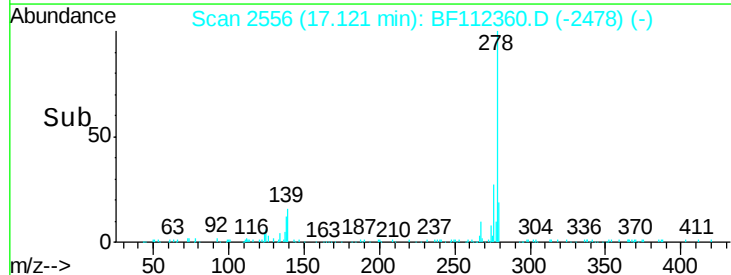
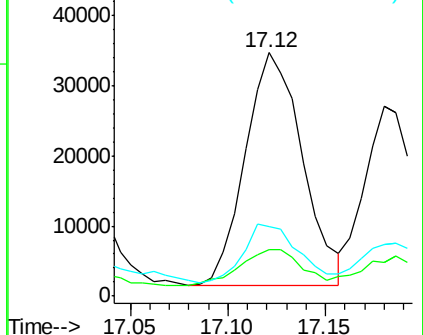
279 28.4 19.0 28.6

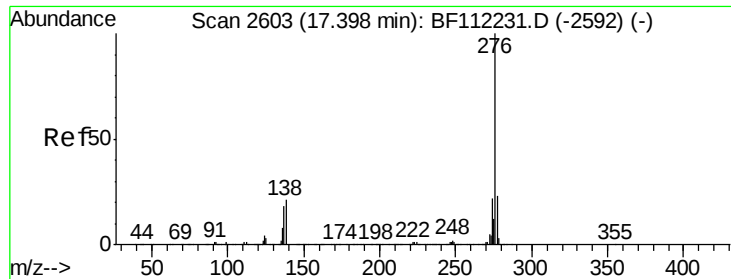


Abundance Ion 278.00 (277.70 to 278.70): E

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: 19.627 ng
 RT: 17.40 min Scan# 2604
 Delta R.T. 0.01 min
 Lab File: BF112360.D
 Acq: 1 Feb 2019 19:13

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-013119-B

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	22.4	19.1	28.7

