

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020819\
 Data File : BF112466.D
 Acq On : 8 Feb 2019 18:15
 Operator : JU/SJ
 Sample : K1349-03 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-020719-B

Quant Time: Feb 09 04:58:07 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	120262	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	489483	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	230832	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	388960	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	275029	20.00	ng	0.00
87) Perylene-d12	15.47	264	290672	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	31522	5.57	ng	0.00
7) Phenol-d6	6.50	99	40495	5.15	ng	0.00
23) Nitrobenzene-d5	7.40	82	27089	3.19	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	8191	3.05	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	61198	3.75	ng	-0.02
79) Terphenyl-d14	12.94	244	47932	3.28	ng	-0.01

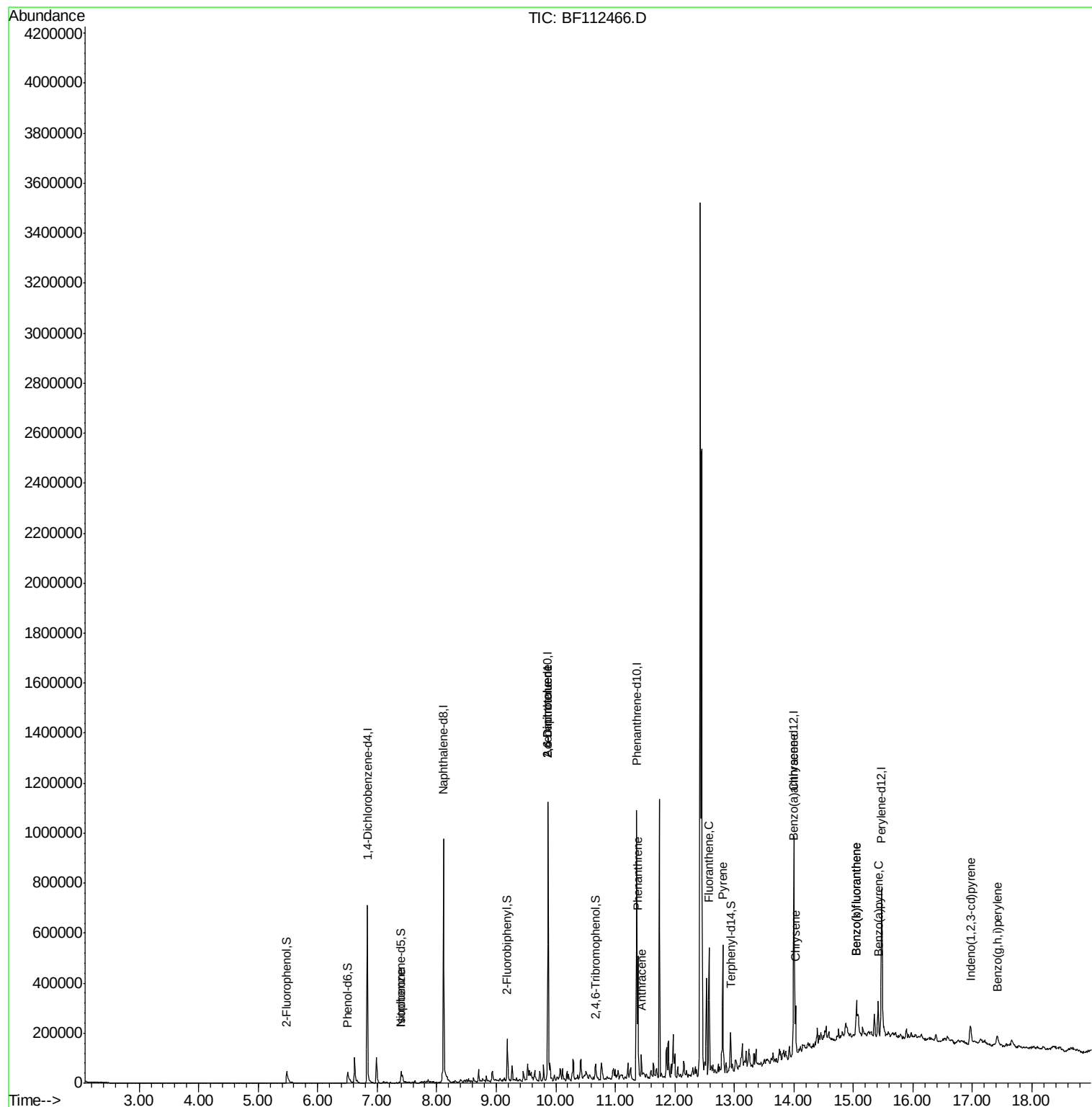
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.40	82	27089	2.033	ng	# 63
51) 2,6-Dinitrotoluene	9.87	165	30927	7.700	ng	# 34
57) 2,4-Dinitrotoluene	9.87	165	30927	6.048	ng	# 32
71) Phenanthrene	11.38	178	178960	8.850	ng	97
72) Anthracene	11.44	178	48694	2.417	ng	98
75) Fluoranthene	12.57	202	185455	8.551	ng	96
78) Pyrene	12.80	202	189987	9.978	ng	98
81) Benzo(a)anthracene	13.99	228	80487	4.978	ng	97
83) Chrysene	14.03	228	72327	4.687	ng	96
86) Indeno(1,2,3-cd)pyrene	16.96	276	30625	2.504	ng	96
88) Benzo(b)fluoranthene	15.05	252	108157	6.222	ng	98
89) Benzo(k)fluoranthene	15.05	252	108157	6.496	ng	98
90) Benzo(a)pyrene	15.42	252	66467	4.249	ng	# 97
92) Benzo(a,h,i)perylene	17.42	276	29443	2.476	ng	95

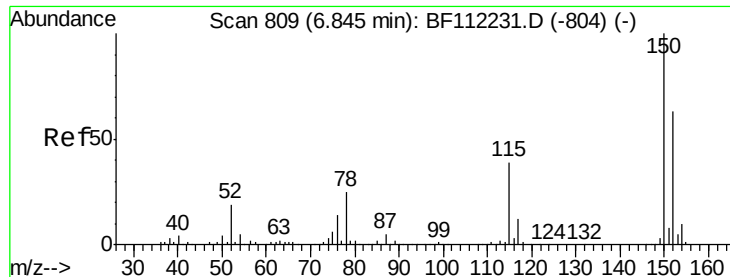
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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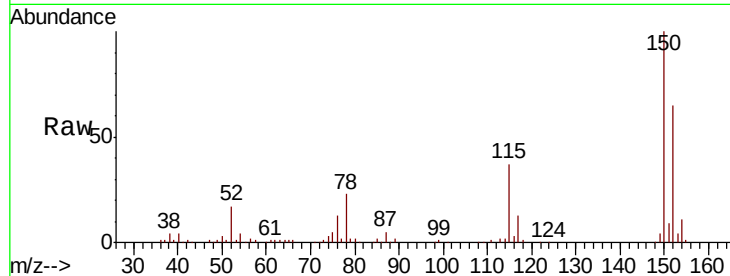


#1

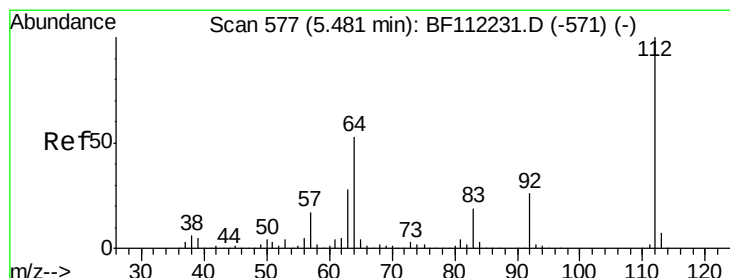
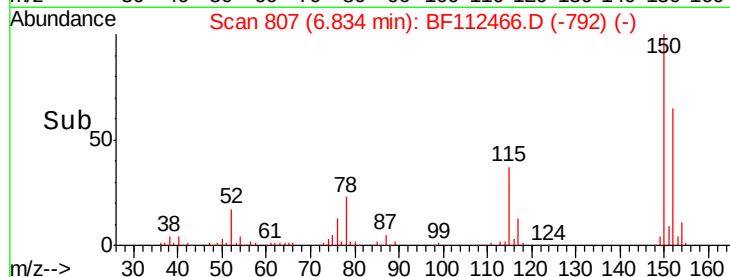
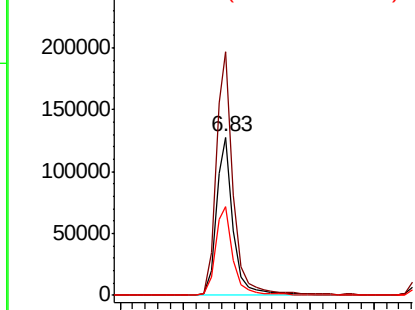
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Instrument :
BNA_F
ClientSampleId :
OR-03-020719-B

Tot Ion:152 Resp: 120262
Ion Ratio Lower Upper
152 100
150 153.7 127.4 191.0
115 56.2 45.5 68.3



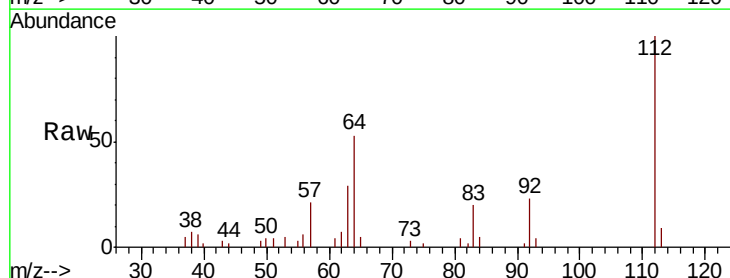
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



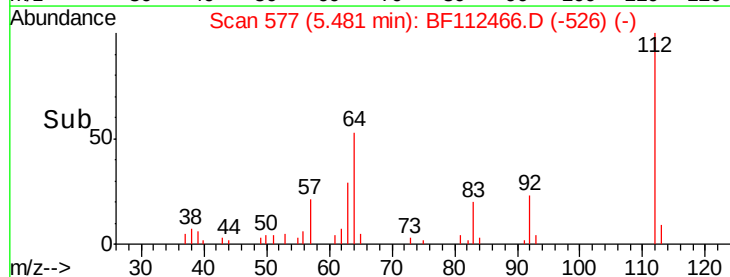
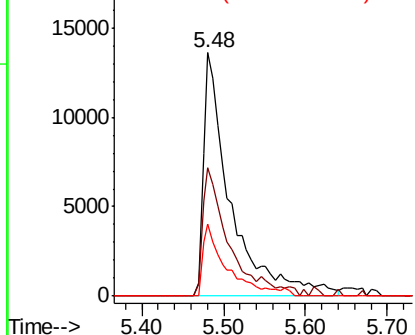
#5

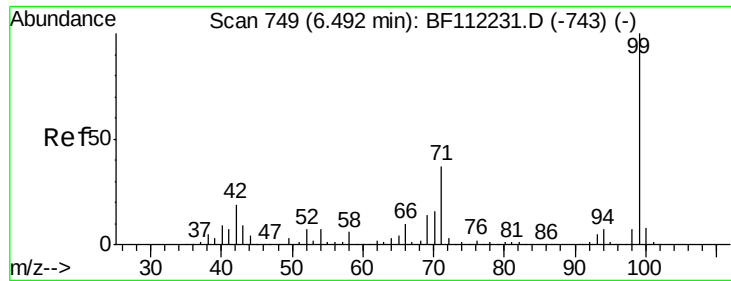
2-Fluorophenol
Concen: 5.567 ng
RT: 5.48 min Scan# 577
Delta R.T. 0.00 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Tgt Ion:112 Resp: 31522
Ion Ratio Lower Upper
112 100
64 52.8 45.7 68.5
63 29.4 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: 5.147 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

Instrument :

BNA_F

ClientSampleId :

OR-03-020719-B

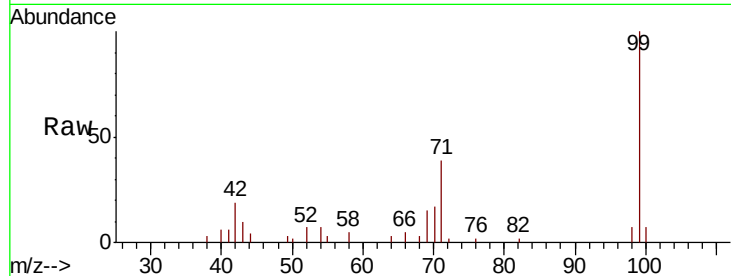
Tot Ion: 99 Resp: 40495

Ion Ratio Lower Upper

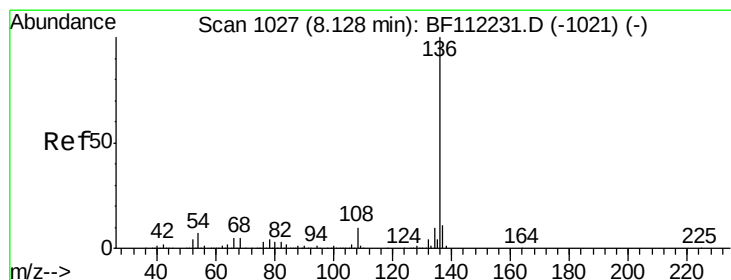
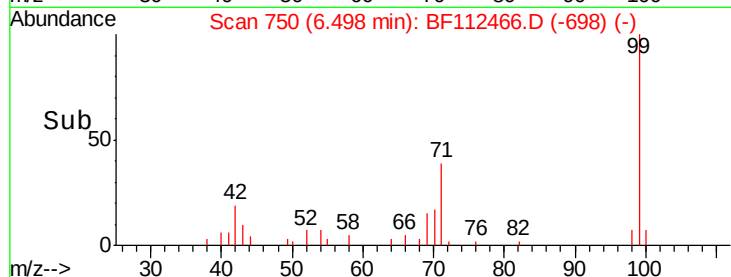
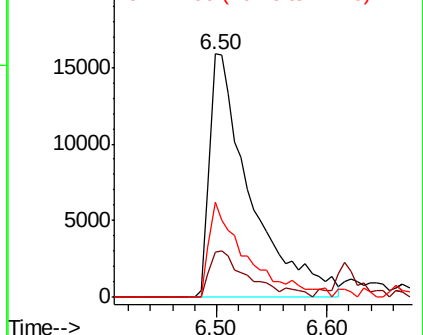
99 100

42 18.7 15.1 22.7

71 38.9 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# 1025

Delta R.T. -0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

Tgt Ion: 136 Resp: 489483

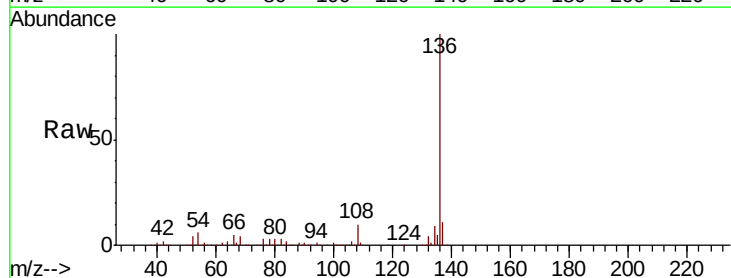
Ion Ratio Lower Upper

136 100

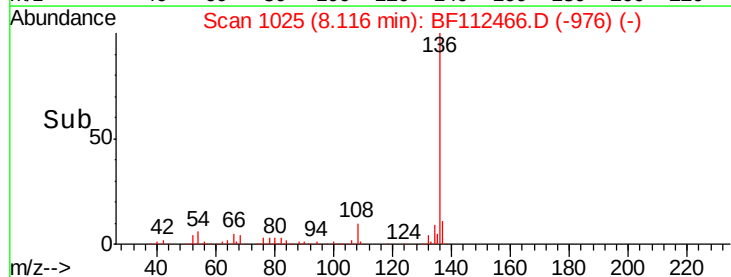
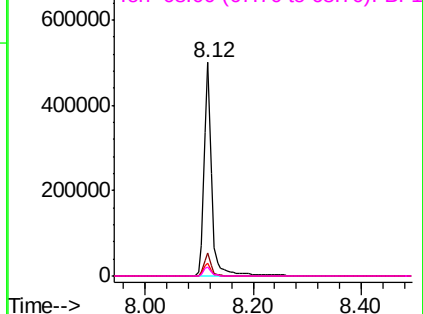
137 10.8 9.1 13.7

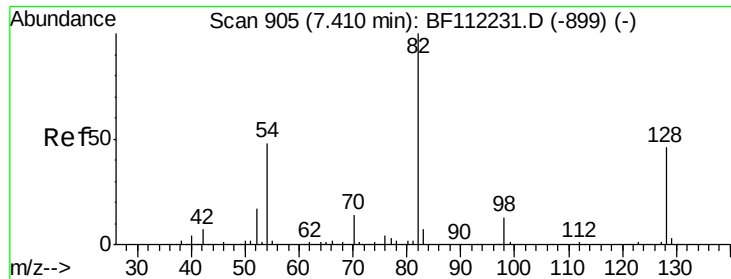
54 6.0 5.9 8.9

68 4.5 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

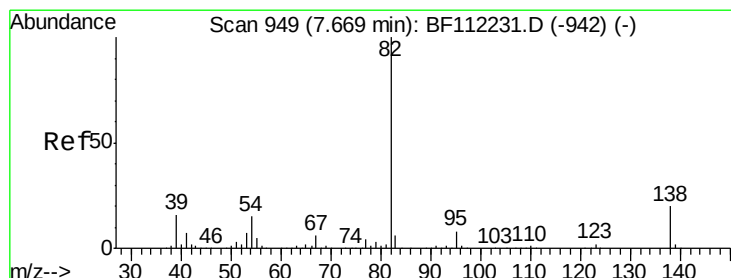
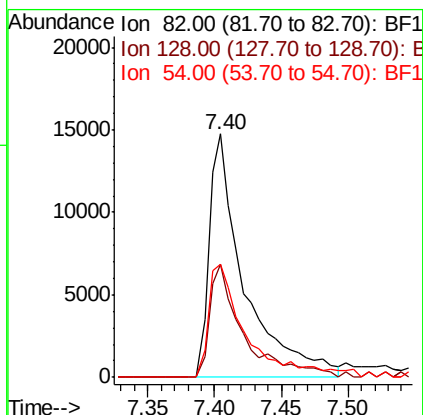
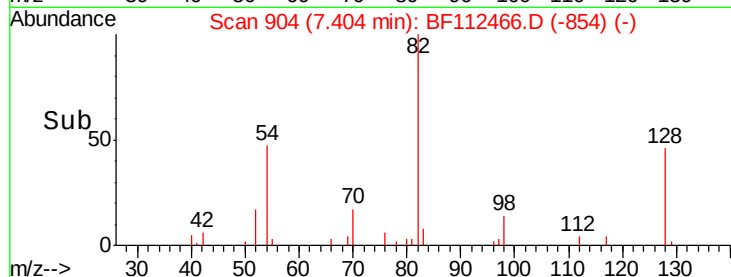
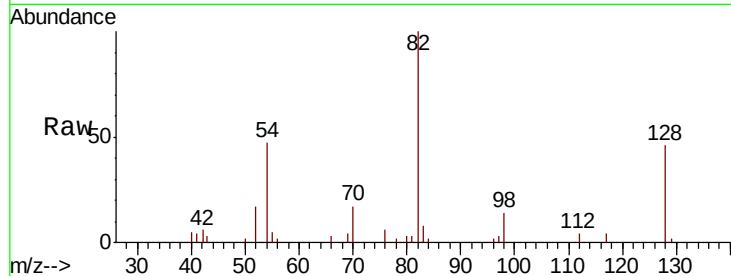




#23
 Nitrobenzene-d5
 Concen: 3.189 ng
 RT: 7.40 min Scan# 904
 Delta R.T. -0.01 min
 Lab File: BF112466.D
 Acq: 8 Feb 2019 18:15

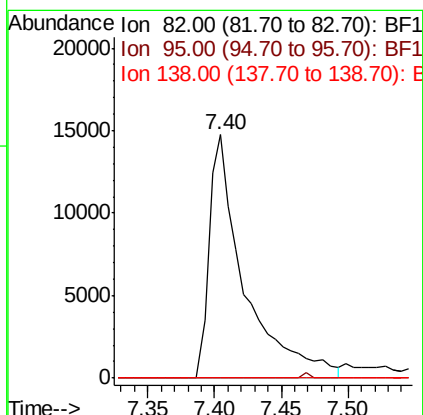
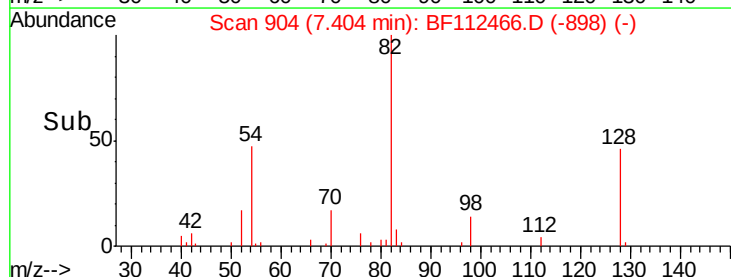
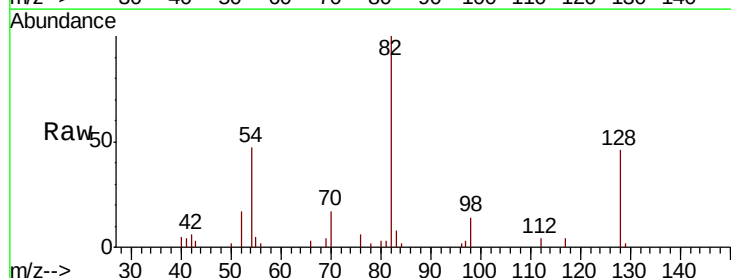
Instrument :
 BNA_F
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 OR-03-020719-B

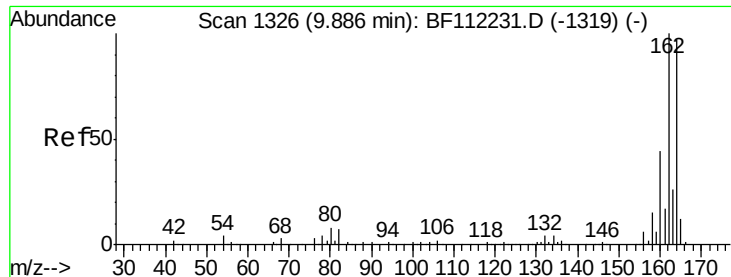
Tot Ion	82	Resp	27089
Ion Ratio	Lower	Upper	
82	100		
128	46.4	37.8	56.8
54	46.7	39.7	59.5



#25
 Isophorone
 Concen: 2.033 ng
 RT: 7.40 min Scan# 904
 Delta R.T. -0.26 min
 Lab File: BF112466.D
 Acq: 8 Feb 2019 18:15

Tgt Ion	82	Resp	27089
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.7	8.5#
138	0.0	15.4	23.0#

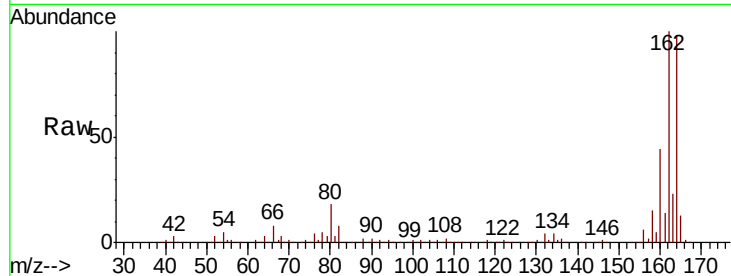




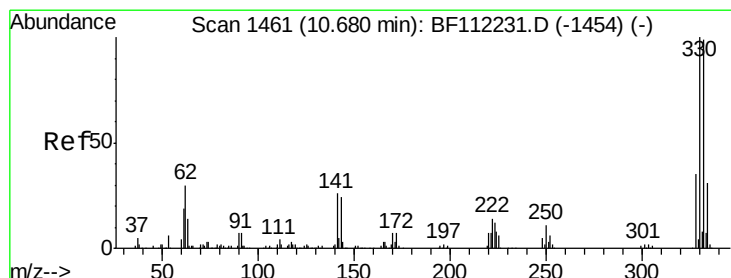
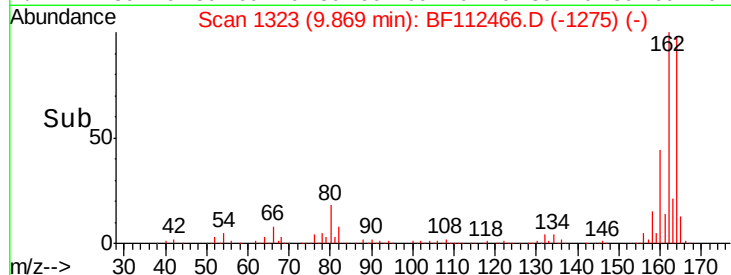
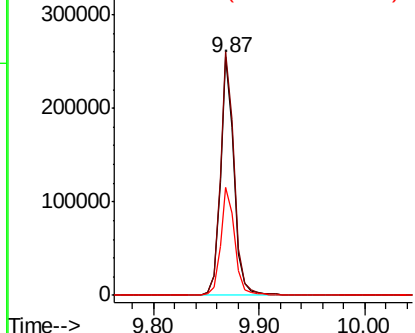
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.02 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Instrument :
BNA_F
ClientSampleId :
OR-03-020719-B

Tot Ion:164 Resp: 230832
Ion Ratio Lower Upper
164 100
162 102.1 82.2 123.4
160 45.2 36.2 54.4

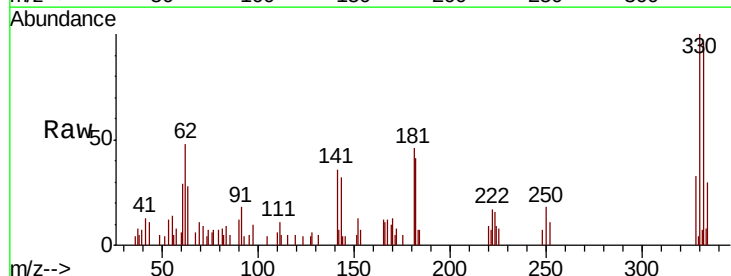


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

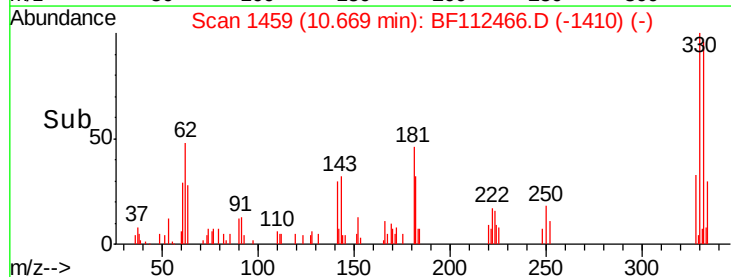
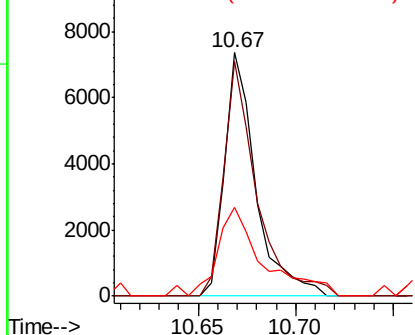


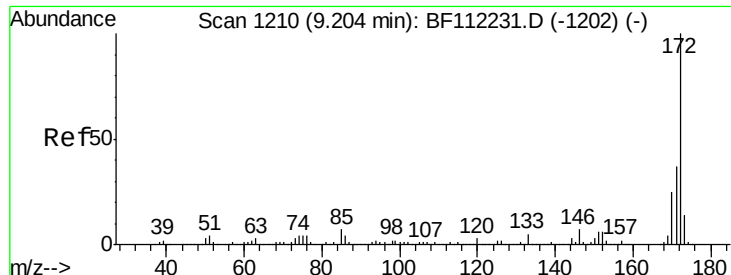
#42
2,4,6-Tribromophenol
Concen: 3.049 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.01 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Tgt Ion:330 Resp: 8191
Ion Ratio Lower Upper
330 100
332 101.3 76.6 114.8
141 53.5 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

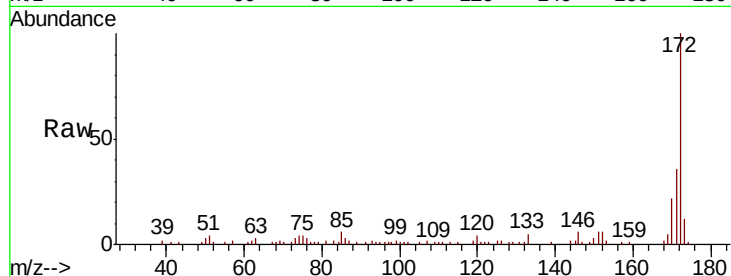




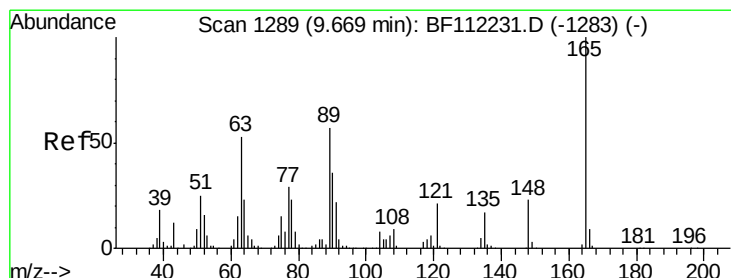
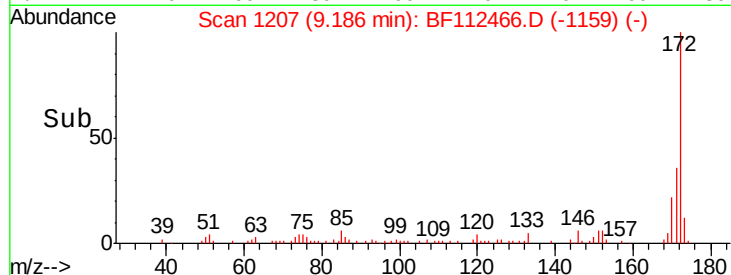
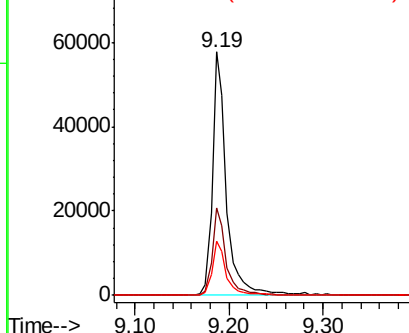
#45
2-Fluorobiphenyl
Concen: 3.750 ng
RT: 9.19 min Scan# 1207
Delta R.T. -0.02 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

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Tot Ion:172 Resp: 61198
Ion Ratio Lower Upper
172 100
171 35.9 30.5 45.7
170 22.0 20.2 30.4

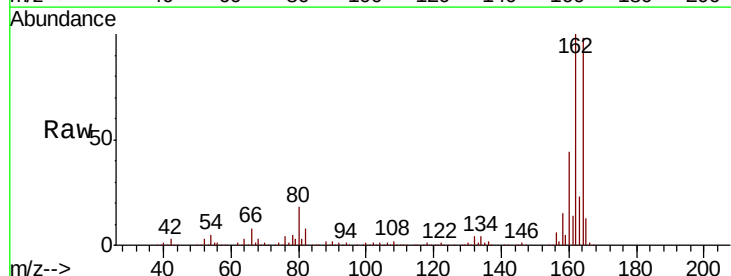


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

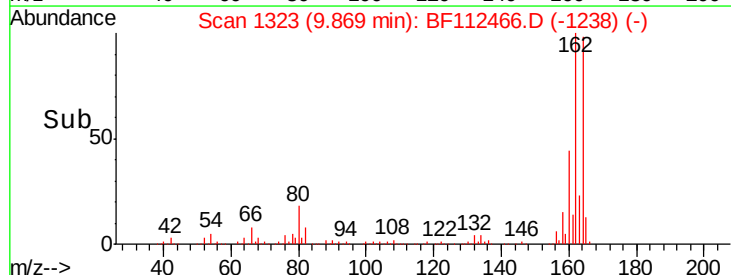
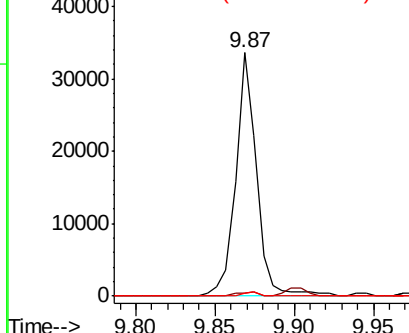


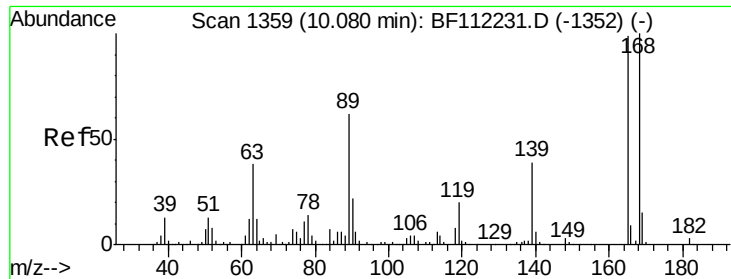
#51
2,6-Dinitrotoluene
Concen: 7.700 ng
RT: 9.87 min Scan# 1323
Delta R.T. 0.20 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Tgt Ion:165 Resp: 30927
Ion Ratio Lower Upper
165 100
63 1.5 33.8 50.8#
89 1.3 36.9 55.3#



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

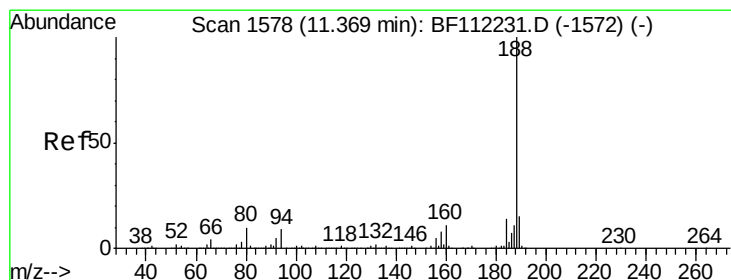
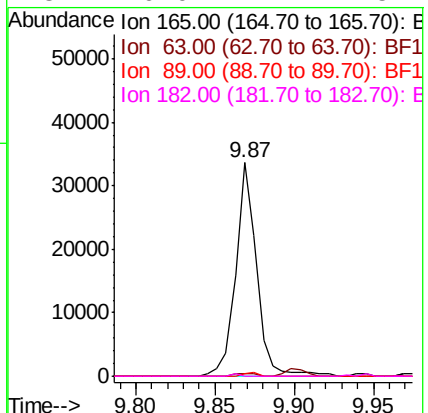
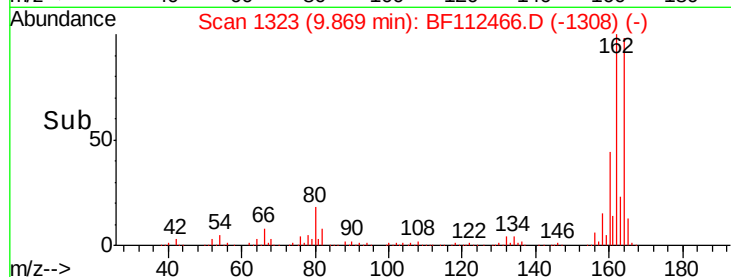
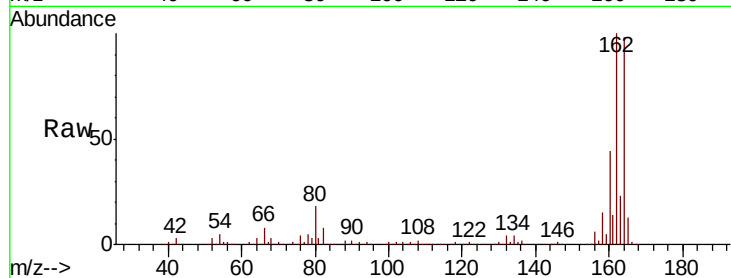




#57
 2,4-Dinitrotoluene
 Concen: 6.048 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. -0.21 min
 Lab File: BF112466.D
 Acq: 8 Feb 2019 18:15

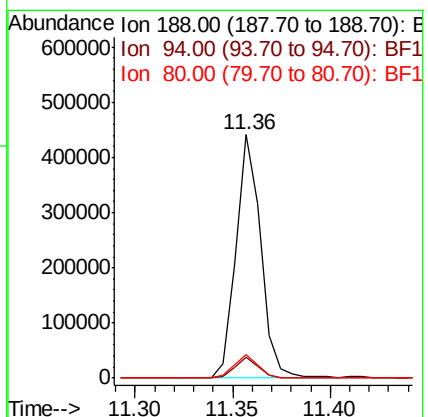
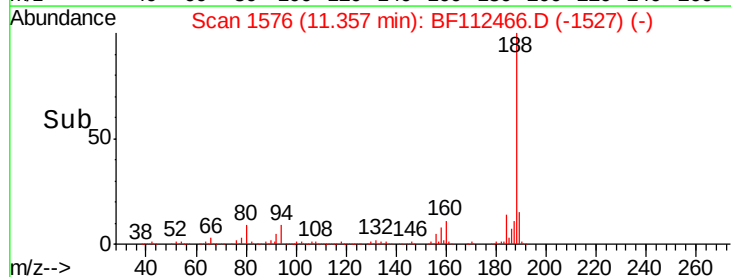
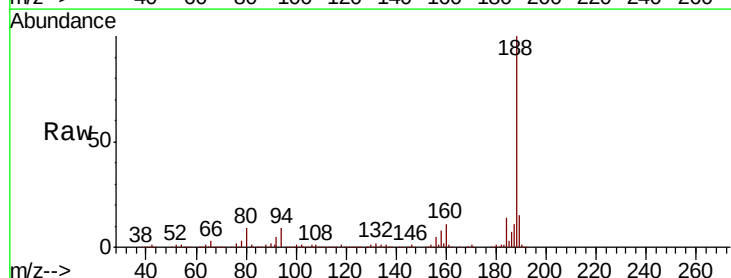
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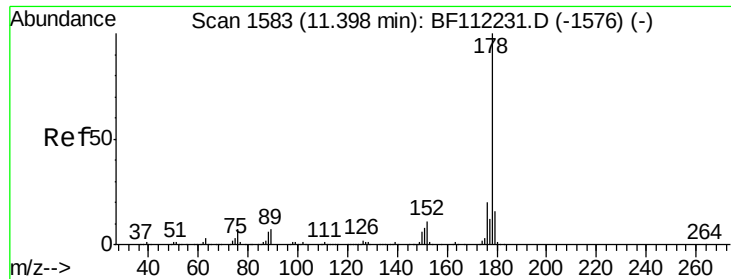
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	27.9	41.9#
89	1.3	47.9	71.9#
182	0.0	2.2	3.4#



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF112466.D
 Acq: 8 Feb 2019 18:15

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	8.2	12.2
80	9.5	8.9	13.3





#71

Phenanthrene

Concen: 8.850 ng

RT: 11.38 min Scan# 1580

Delta R.T. -0.02 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

Instrument :

BNA_F

ClientSampleId :

OR-03-020719-B

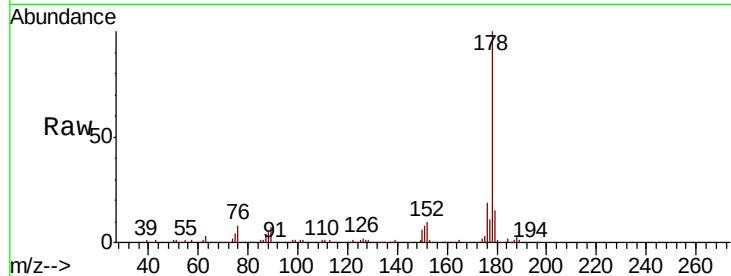
Tot Ion:178 Resp: 178960

Ion Ratio Lower Upper

178 100

176 18.6 16.3 24.5

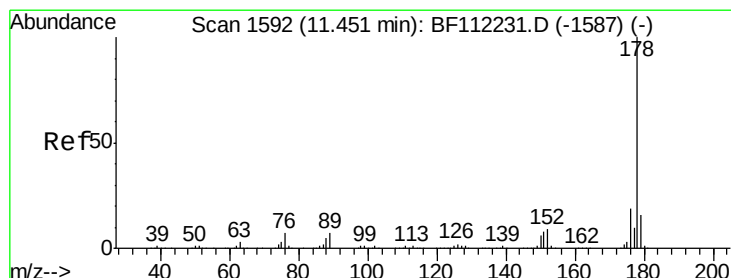
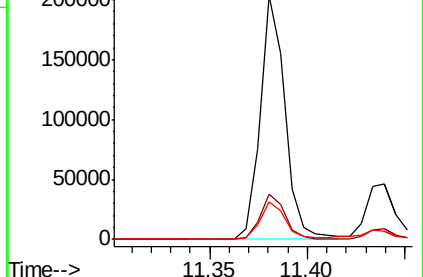
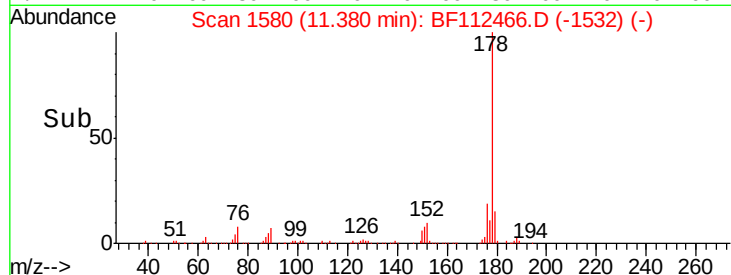
179 15.5 13.0 19.4



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: 2.417 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

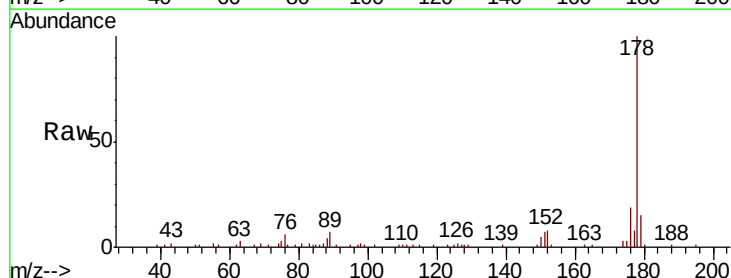
Tgt Ion:178 Resp: 48694

Ion Ratio Lower Upper

178 100

176 18.7 15.5 23.3

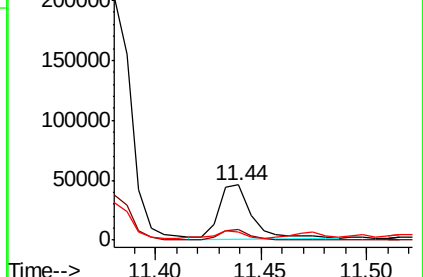
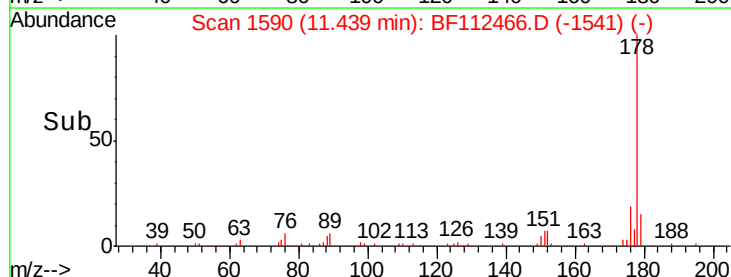
179 15.3 12.8 19.2

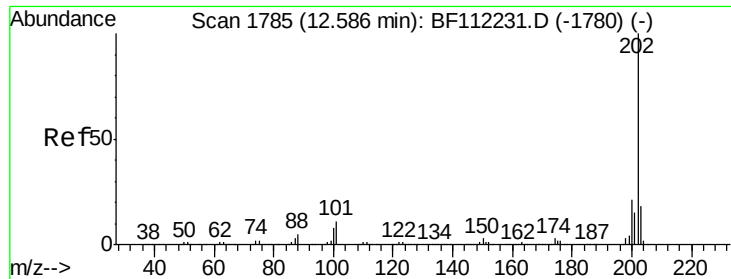


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 8.551 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

Instrument :

BNA_F

ClientSampleId :

OR-03-020719-B

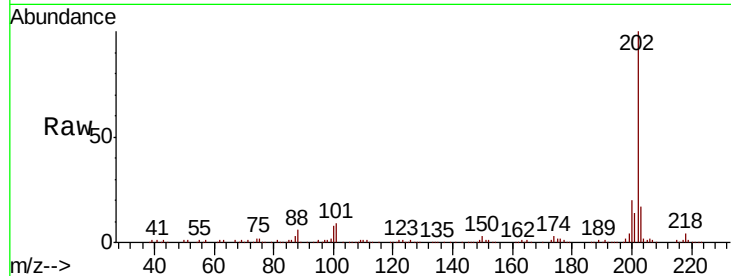
Tot Ion:202 Resp: 185455

Ion Ratio Lower Upper

202 100

101 9.3 0.0 31.8

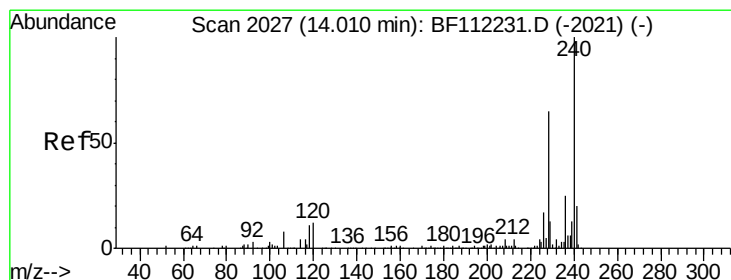
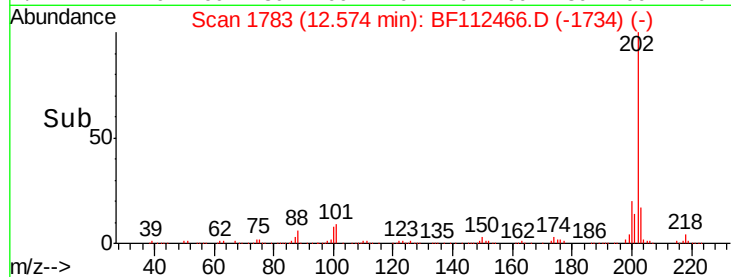
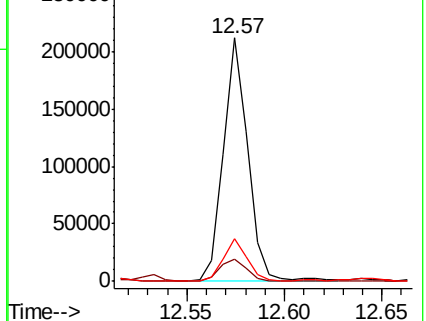
203 17.4 0.0 38.4



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: BF112466.D

Acq: 8 Feb 2019 18:15

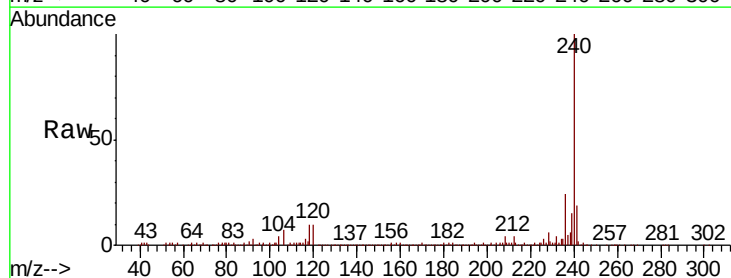
Tgt Ion:240 Resp: 275029

Ion Ratio Lower Upper

240 100

120 9.5 9.0 13.6

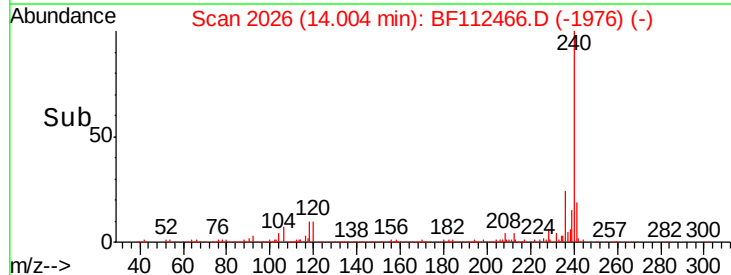
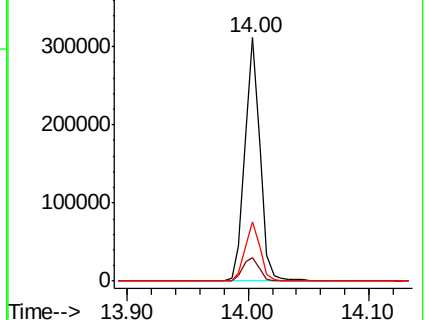
236 24.4 20.7 31.1

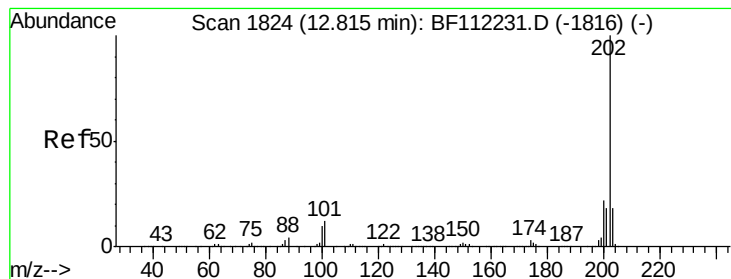


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 9.978 ng

RT: 12.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

Instrument :

BNA_F

ClientSampleId :

OR-03-020719-B

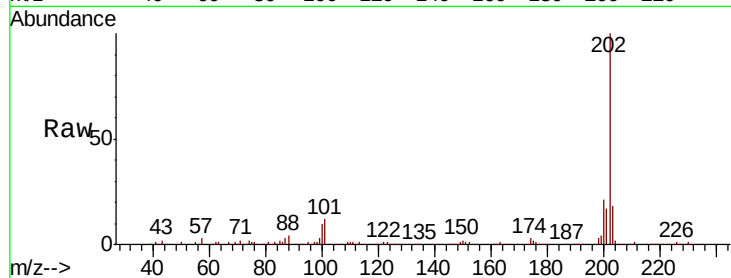
Tot Ion:202 Resp: 189987

Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.7	26.5
203	18.1	14.6	22.0

202 100

200 20.6 17.7 26.5

203 18.1 14.6 22.0

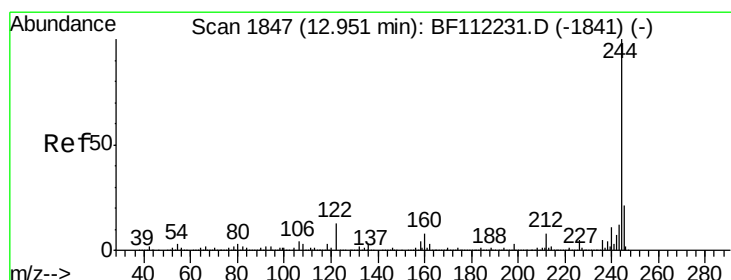
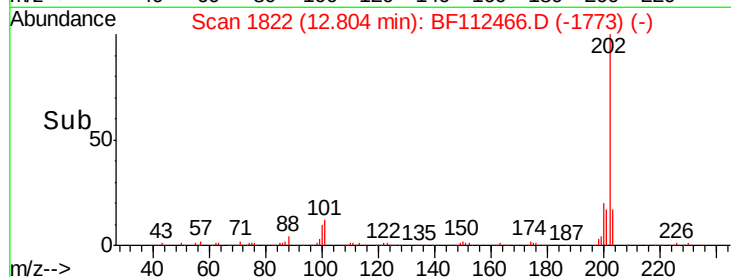
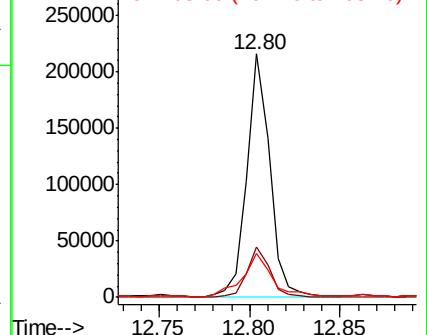


Abundance

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: 3.282 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

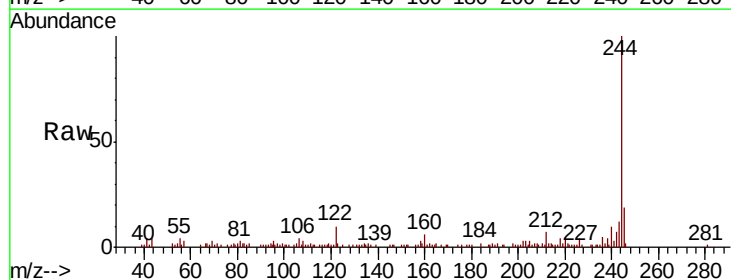
Tgt Ion:244 Resp: 47932

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.9	8.9
122	9.5	9.8	14.6#

244 100

212 6.5 5.9 8.9

122 9.5 9.8 14.6#

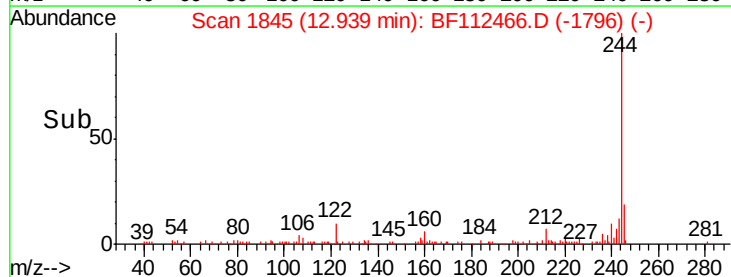
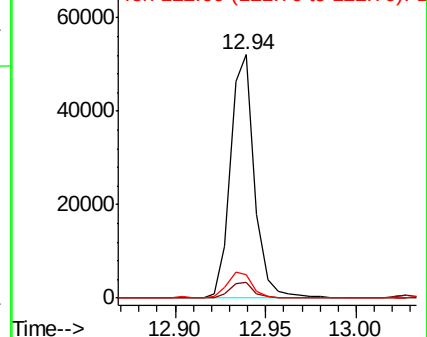


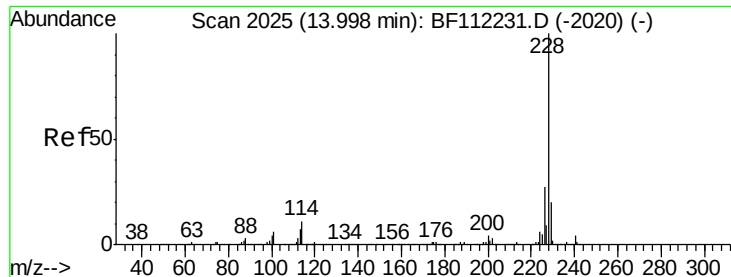
Abundance

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: 4.978 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

Instrument :

BNA_F

ClientSampleId :

OR-03-020719-B

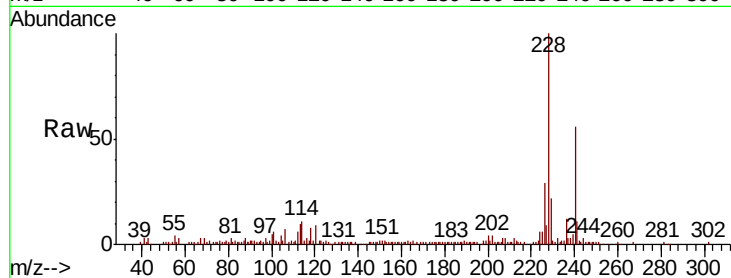
Tot Ion:228 Resp: 80487

Ion Ratio Lower Upper

228 100

226 29.1 22.6 34.0

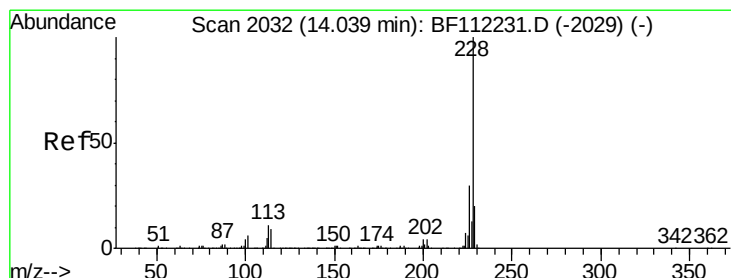
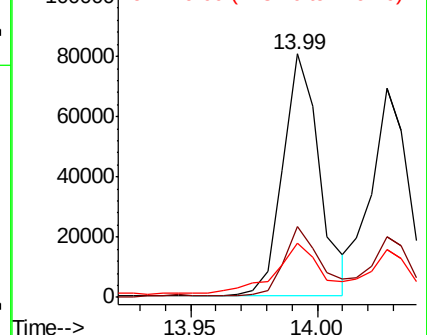
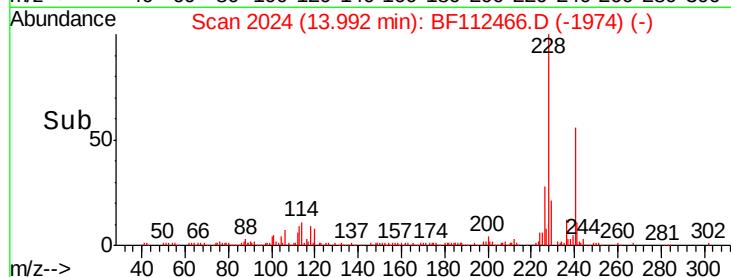
229 22.4 16.5 24.7



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: 4.687 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BF112466.D

Acq: 8 Feb 2019 18:15

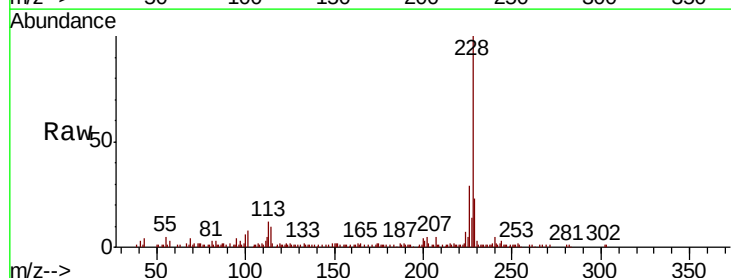
Tgt Ion:228 Resp: 72327

Ion Ratio Lower Upper

228 100

226 29.3 25.0 37.6

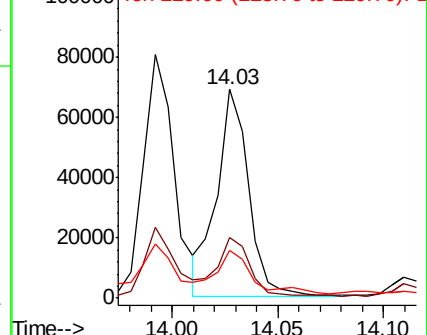
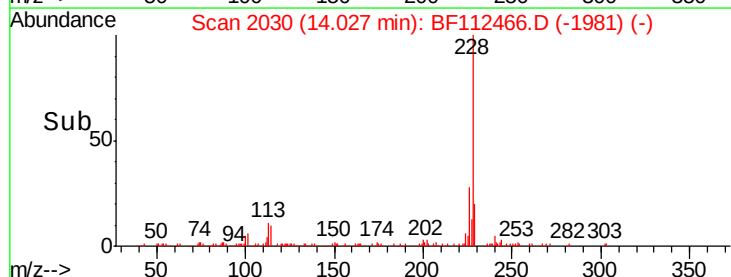
229 23.2 16.6 24.8

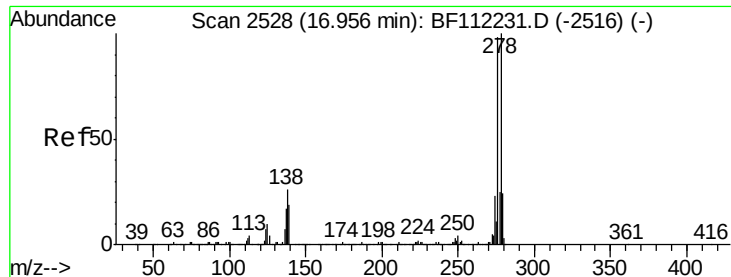


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

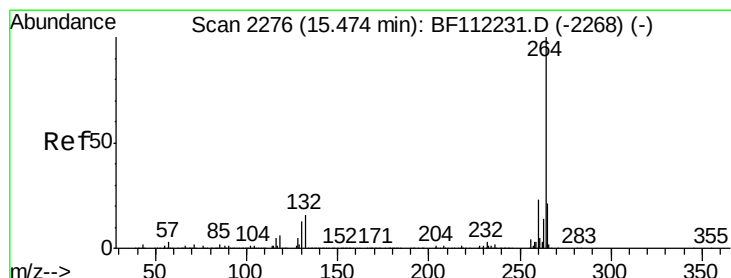
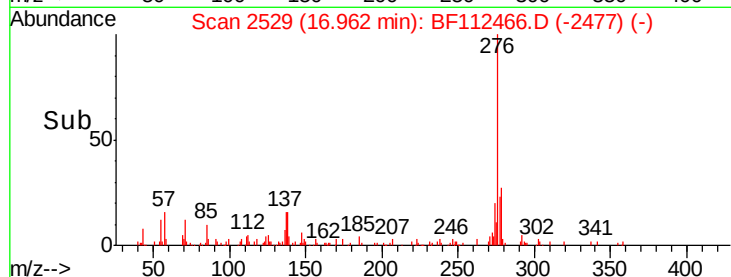
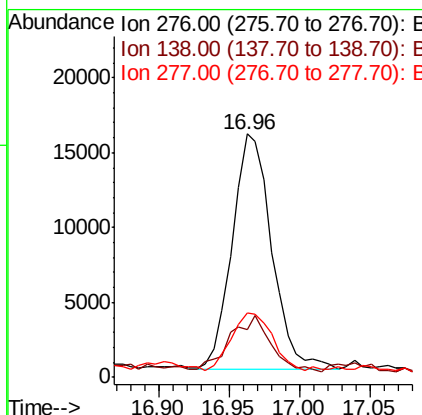
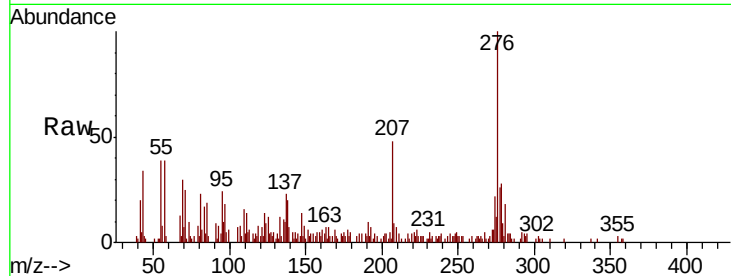




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.504 ng
 RT: 16.96 min Scan# 2529
 Delta R.T. 0.01 min
 Lab File: BF112466.D
 Acq: 8 Feb 2019 18:15

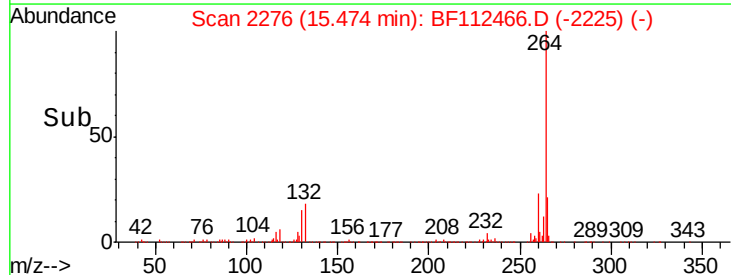
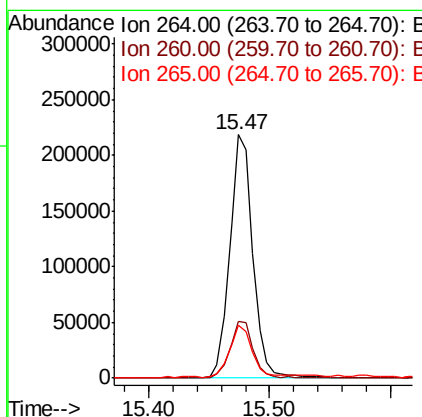
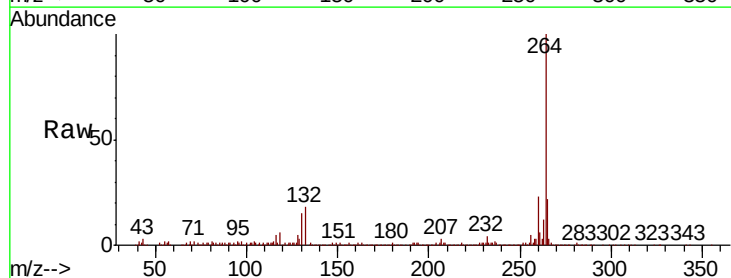
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-020719-B

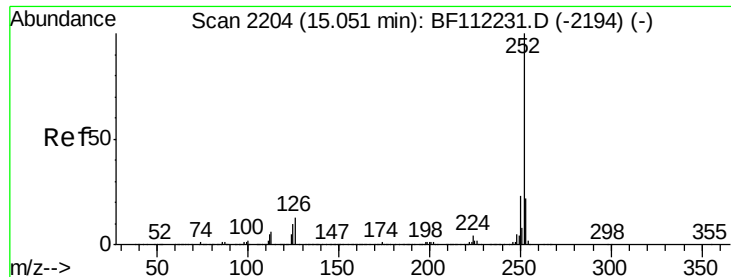
Tot Ion	Ratio	Lower	Upper
276	100		
138	24.9	22.6	34.0
277	26.5	20.3	30.5



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.47 min Scan# 2276
 Delta R.T. 0.00 min
 Lab File: BF112466.D
 Acq: 8 Feb 2019 18:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.2	27.2
265	21.6	17.0	25.4

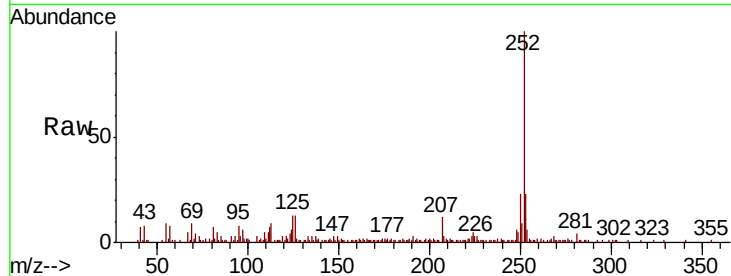




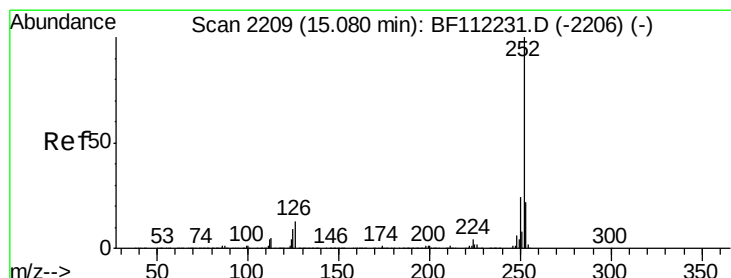
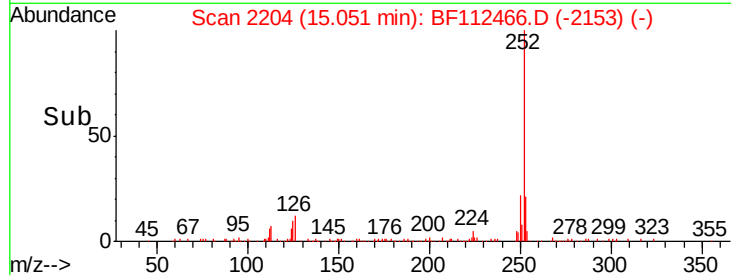
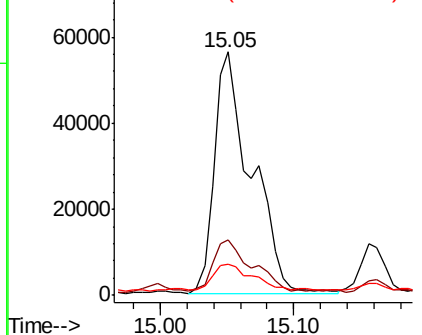
#88
Benzo(b)fluoranthene
Concen: 6.222 ng
RT: 15.05 min Scan# 2204
Delta R.T. 0.00 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Instrument :
BNA_F
ClientSampleId :
OR-03-020719-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	13.0	8.7	13.1

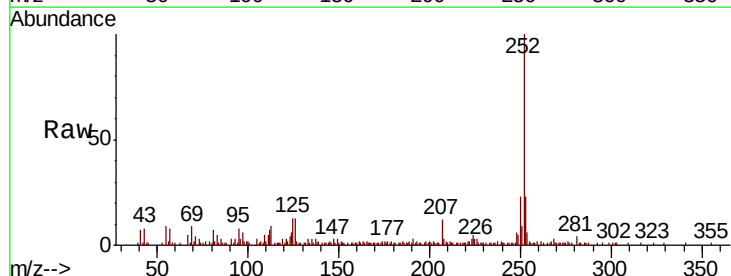


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

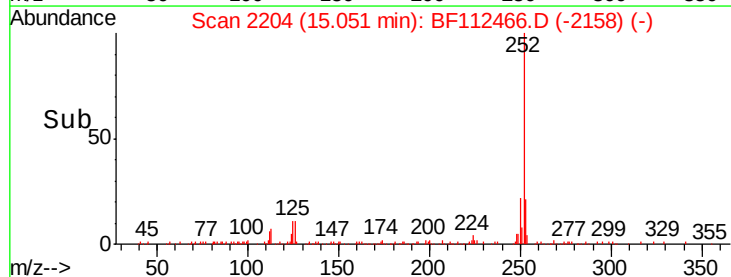
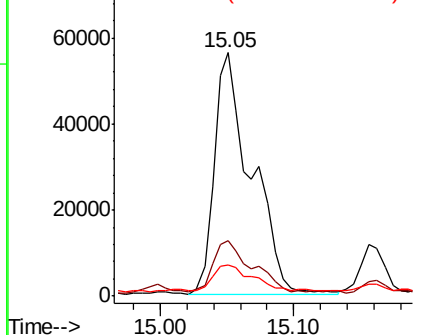


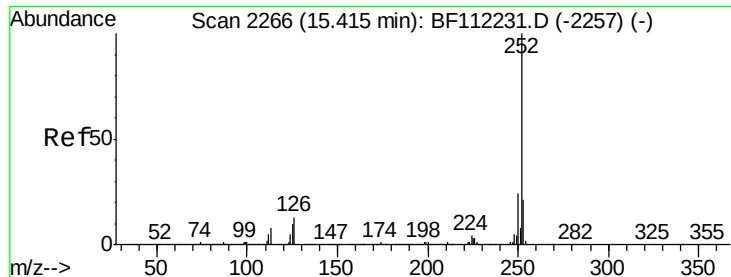
#89
Benzo(k)fluoranthene
Concen: 6.496 ng
RT: 15.05 min Scan# 2204
Delta R.T. -0.03 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.0	27.0
125	13.0	9.1	13.7



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

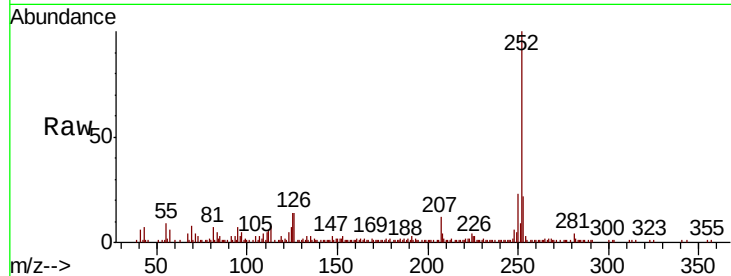




#90
Benzo(a)pyrene
Concen: 4.249 ng
RT: 15.42 min Scan# 2266
Delta R.T. 0.00 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Instrument :
BNA_F
ClientSampleId :
OR-03-020719-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	14.1	9.0	13.4

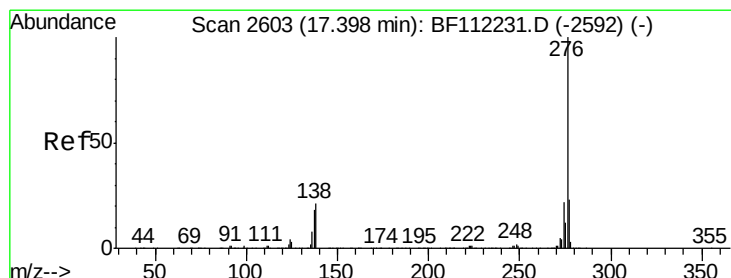
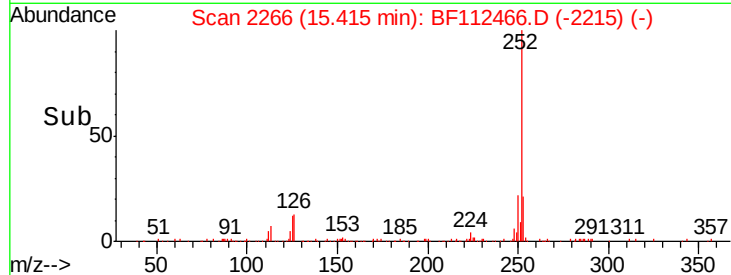
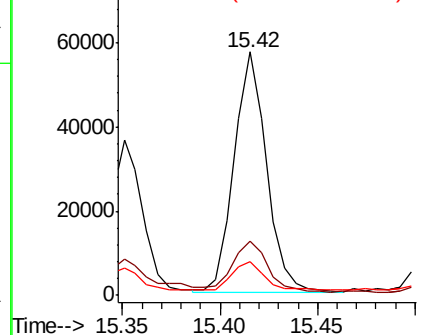


Abundance

Ion 252.00 (251.70 to 252.70): E

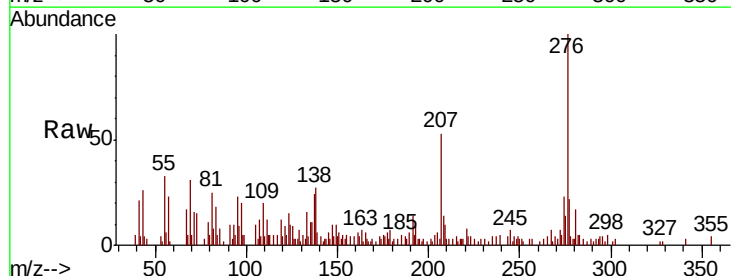
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 2.476 ng
RT: 17.42 min Scan# 2606
Delta R.T. 0.02 min
Lab File: BF112466.D
Acq: 8 Feb 2019 18:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.1	19.4	29.0
138	26.8	19.1	28.7



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

