

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF021519\
 Data File : BF112587.D
 Acq On : 15 Feb 2019 19:09
 Operator : JU/SJ
 Sample : K1346-07
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-021419-A

Quant Time: Feb 15 23:45:05 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	98714	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	408561	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	214482	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	425485	20.00	ng	0.00
76) Chrysene-d12	14.01	240	267558	20.00	ng	0.00
87) Perylene-d12	15.49	264	239156	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.46	112	576059	123.95	ng	-0.02
7) Phenol-d6	6.48	99	745359	115.42	ng	-0.01
23) Nitrobenzene-d5	7.40	82	488402	68.88	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	285349	114.30	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	993902	65.54	ng	-0.02
79) Terphenyl-d14	12.94	244	1006236	70.83	ng	0.00

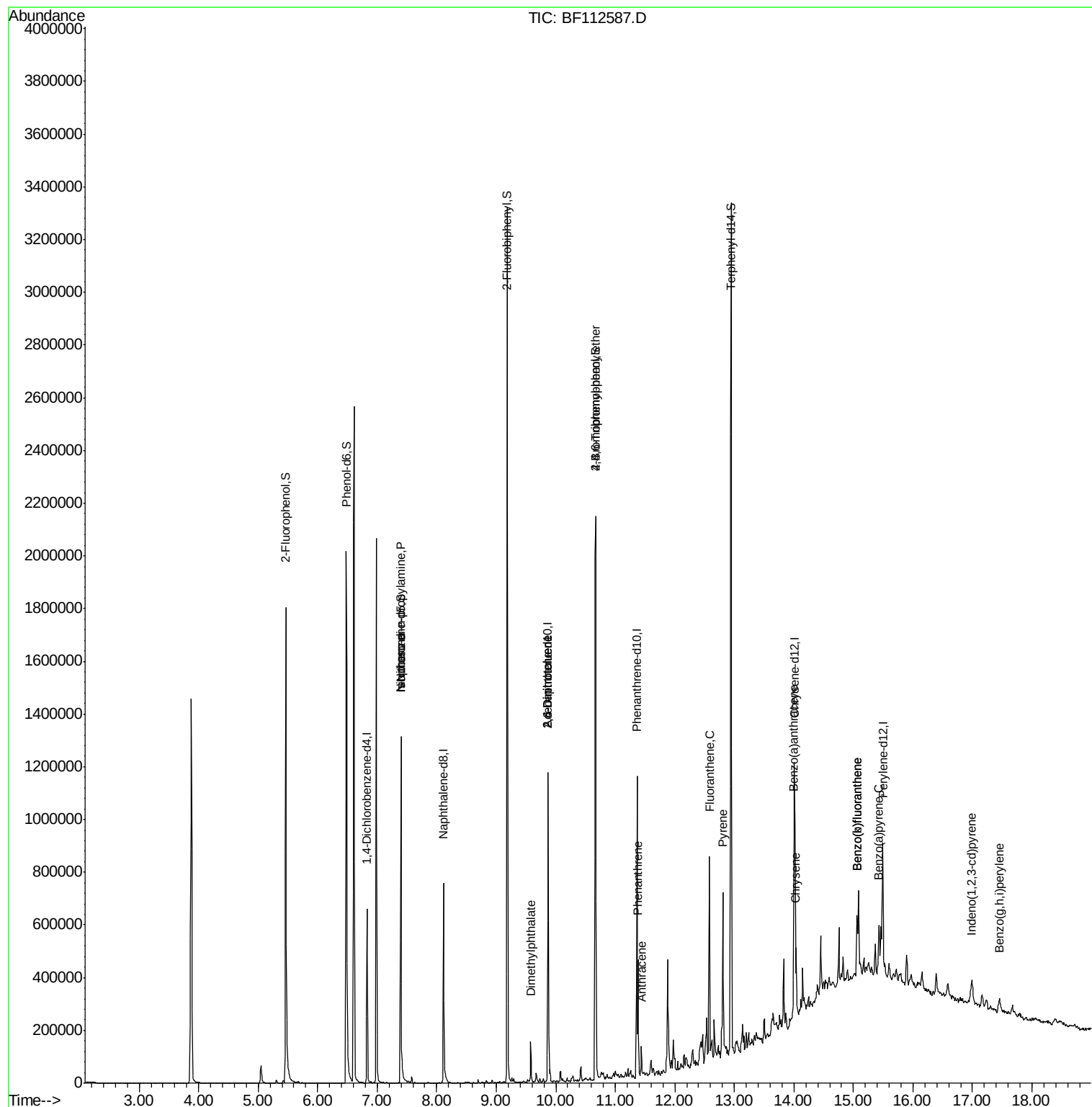
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	66928	15.030	ng	# 74
25) Isophorone	7.40	82	488398	43.906	ng	# 63
50) Dimethylphthalate	9.58	163	60462	3.628	ng	99
51) 2,6-Dinitrotoluene	9.87	165	27576	7.389	ng	# 34
57) 2,4-Dinitrotoluene	9.87	165	27576	5.804	ng	# 32
67) 4-Bromophenyl-phenylether	10.67	248	17323	3.462	ng	# 1
71) Phenanthrene	11.39	178	164952	7.457	ng	96
72) Anthracene	11.44	178	46375	2.105	ng	97
75) Fluoranthene	12.58	202	287405	12.114	ng	96
78) Pyrene	12.81	202	228307	12.325	ng	97
81) Benzo(a)anthracene	14.00	228	108542	6.901	ng	99
83) Chrysene	14.03	228	96262	6.412	ng	98
86) Indeno(1,2,3-cd)pyrene	16.99	276	46051	3.871	ng	# 89
88) Benzo(b)fluoranthene	15.06	252	165711	11.586	ng	96
89) Benzo(k)fluoranthene	15.06	252	165711	12.096	ng	97
90) Benzo(a)pyrene	15.43	252	87650	6.811	ng	95
92) Benzo(g,h,i)perylene	17.46	276	40569	4.146	ng	99

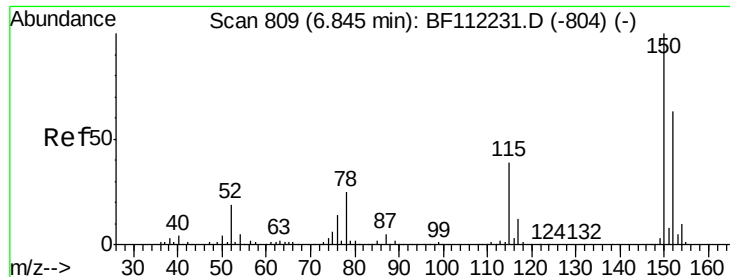
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.83 min Scan# 806

Delta R.T. -0.02 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

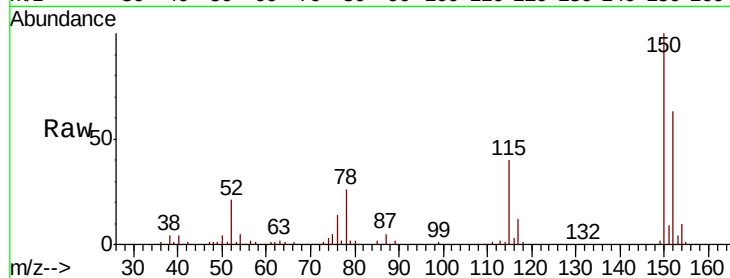
Tgt Ion:152 Resp: 98714

Ion Ratio Lower Upper

152 100

150 158.9 127.4 191.0

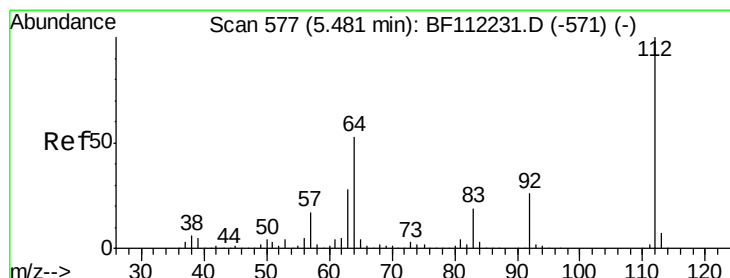
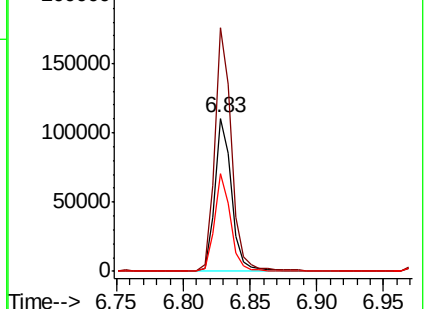
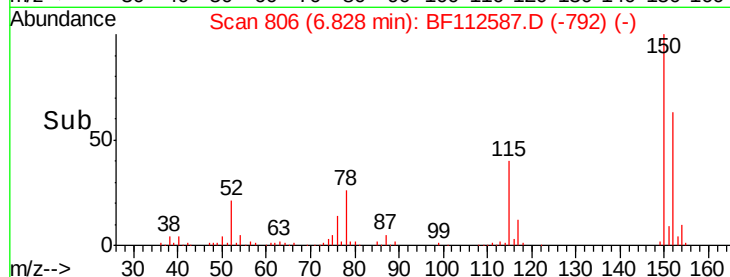
115 63.6 45.5 68.3



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: 123.953 ng

RT: 5.46 min Scan# 574

Delta R.T. -0.02 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

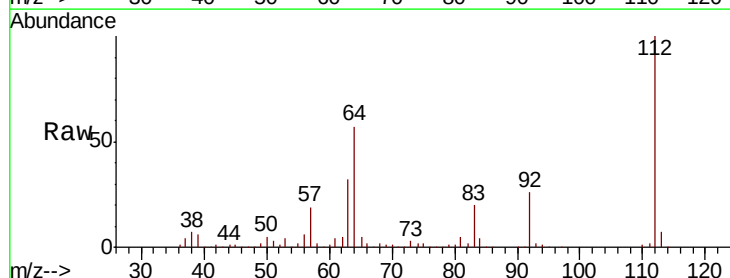
Tgt Ion:112 Resp: 576059

Ion Ratio Lower Upper

112 100

64 57.5 45.7 68.5

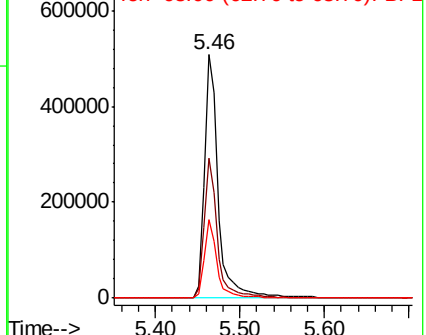
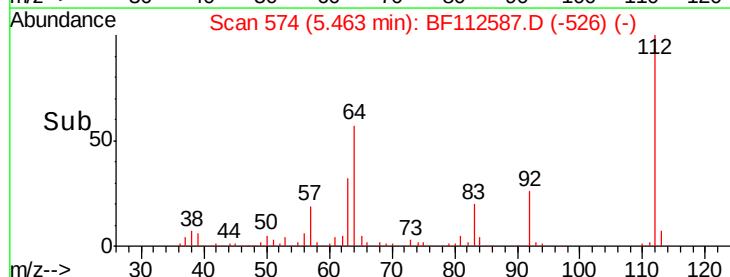
63 32.1 23.6 35.4

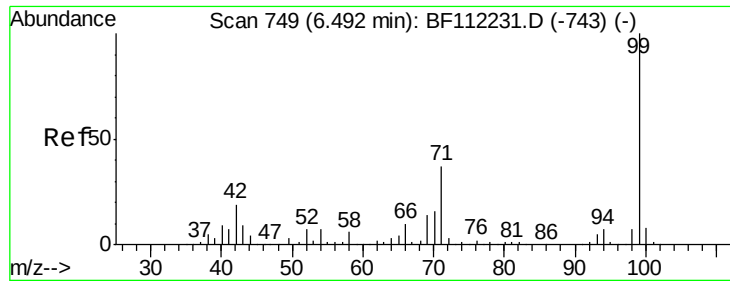


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 115.420 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

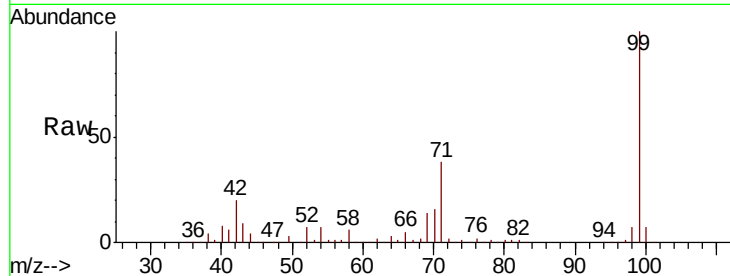
Tgt Ion: 99 Resp: 745359

Ion Ratio Lower Upper

99 100

42 19.7 15.1 22.7

71 38.1 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

800000

600000

400000

200000

0

6.40

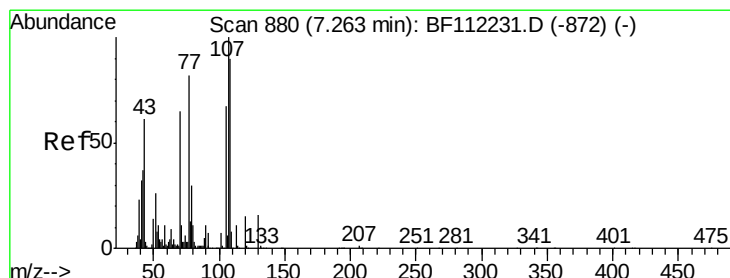
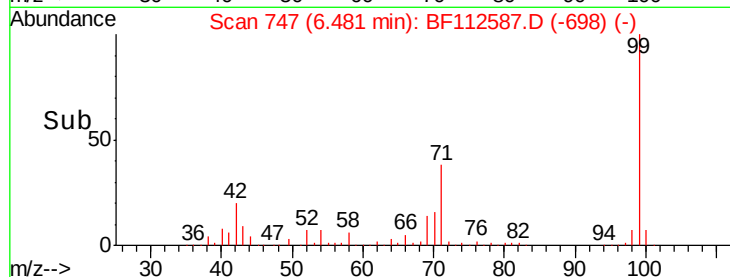
6.48

6.50

6.55

6.60

Time-->



#19

n-Nitroso-di-n-propylamine

Concen: 15.030 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.14 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Tgt Ion: 70 Resp: 66928

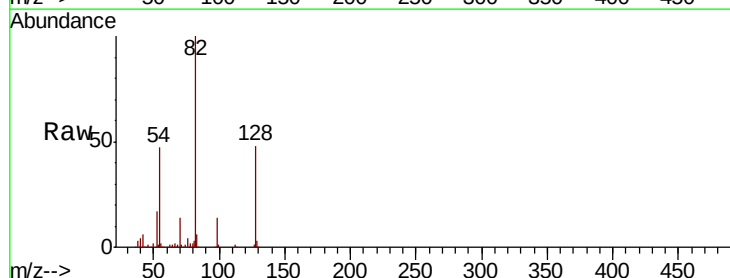
Ion Ratio Lower Upper

70 100

42 44.9 47.6 71.4#

101 0.0 7.9 11.9#

130 2.7 18.4 27.6#



Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

80000

60000

40000

20000

0

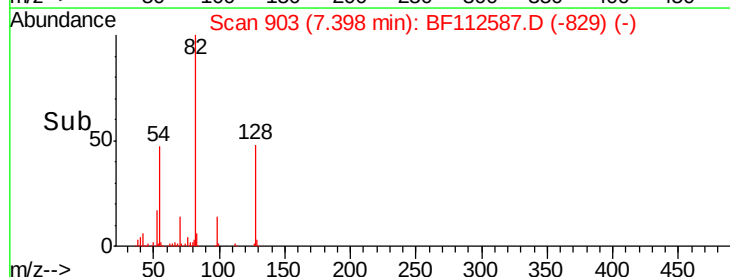
7.35

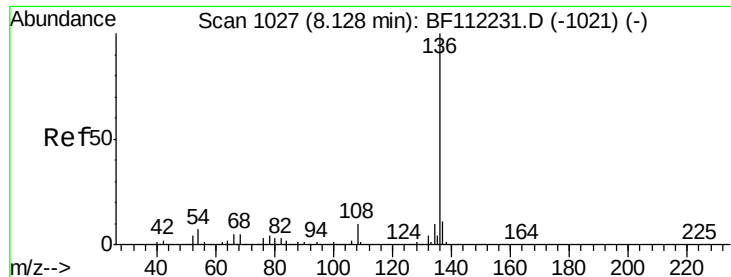
7.40

7.45

7.50

Time-->

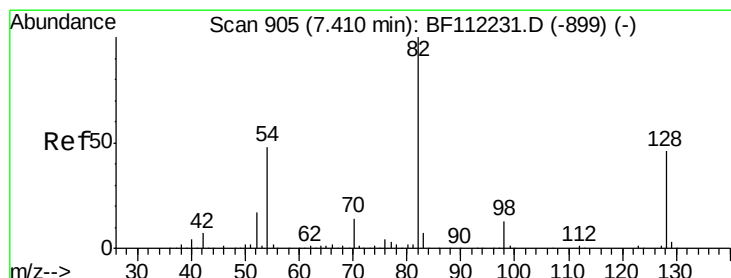
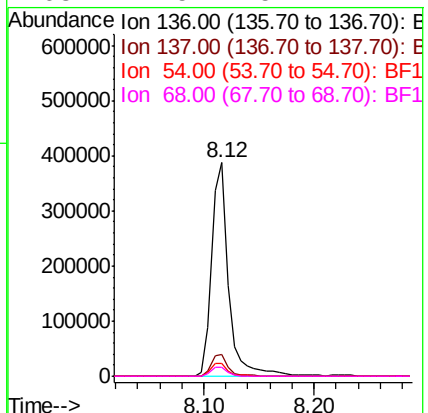
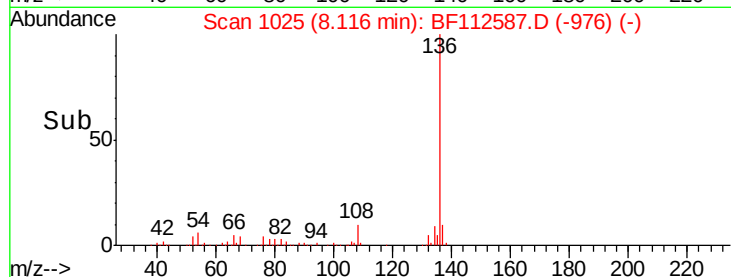
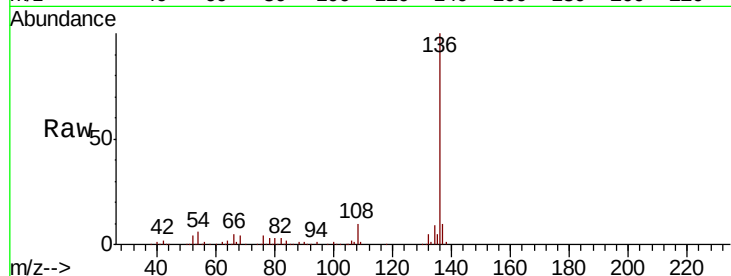




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

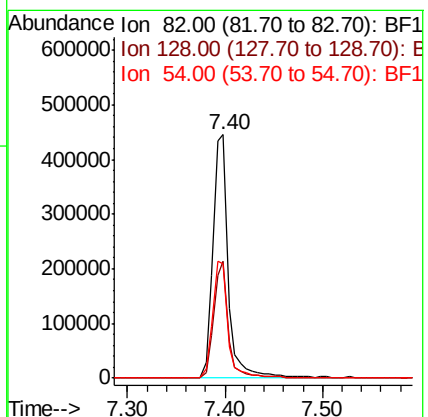
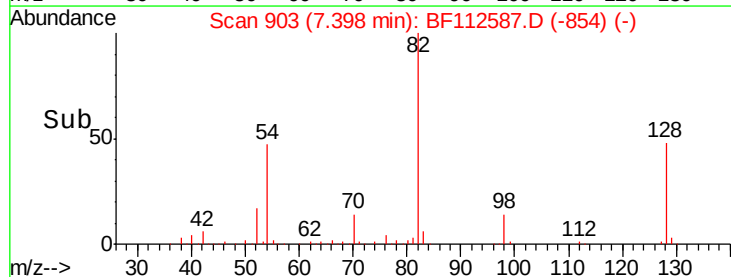
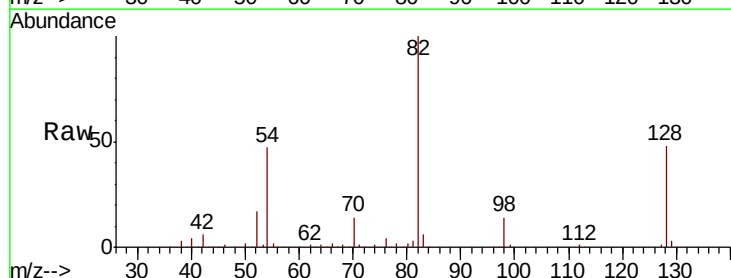
Instrument :
BNA_F
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CL-01-021419-A

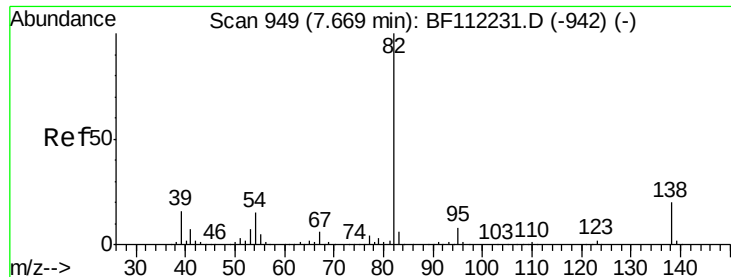
Tgt Ion:	136	Resp:	408561
Ion	Ratio	Lower	Upper
136	100		
137	10.4	9.1	13.7
54	5.9	5.9	8.9
68	4.5	5.1	7.7#



#23
Nitrobenzene-d5
Concen: 68.880 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

Tgt Ion:	82	Resp:	488402
Ion	Ratio	Lower	Upper
82	100		
128	48.0	37.8	56.8
54	46.9	39.7	59.5





#25

Isophorone

Concen: 43.906 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.27 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

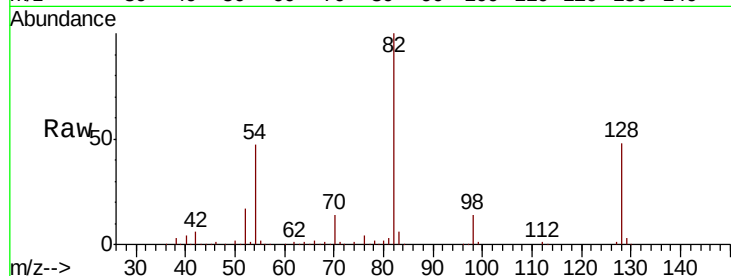
Tgt Ion: 82 Resp: 488398

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

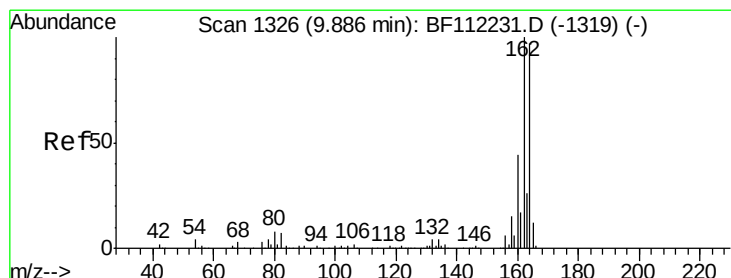
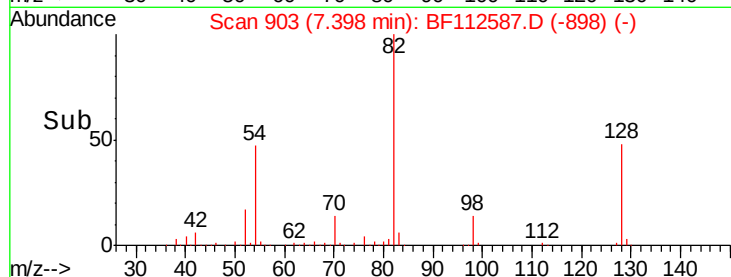
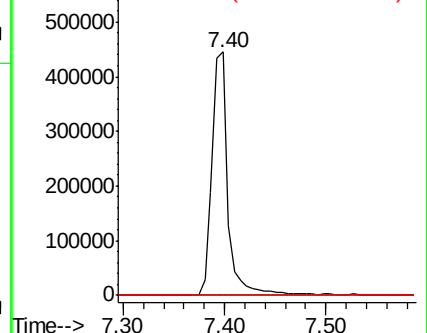
138 0.0 15.4 23.0#



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# 1323

Delta R.T. -0.02 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

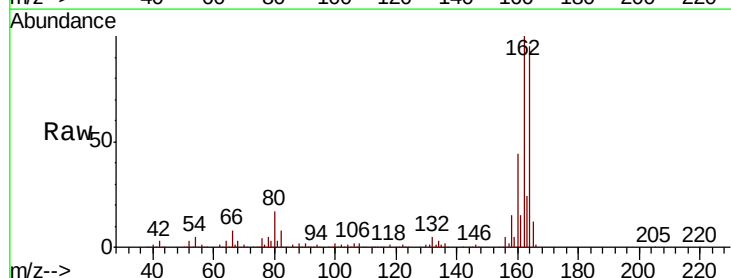
Tgt Ion: 164 Resp: 214482

Ion Ratio Lower Upper

164 100

162 105.4 82.2 123.4

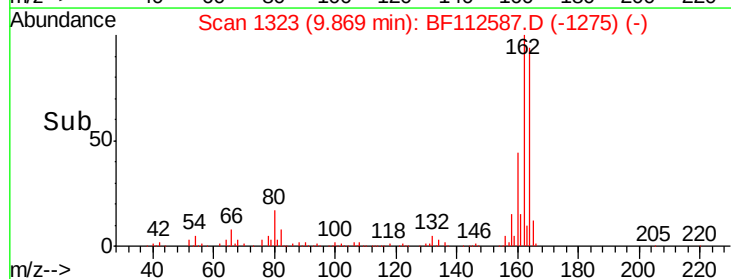
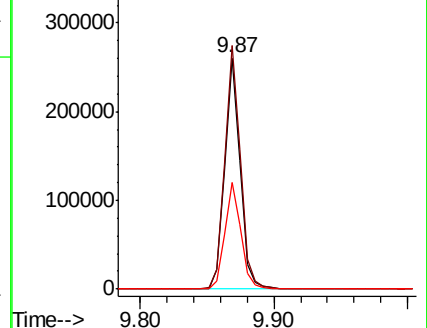
160 46.2 36.2 54.4

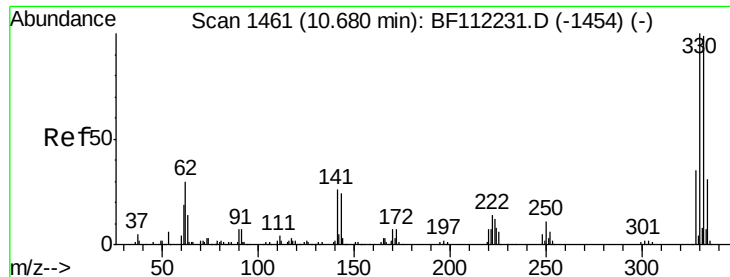


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

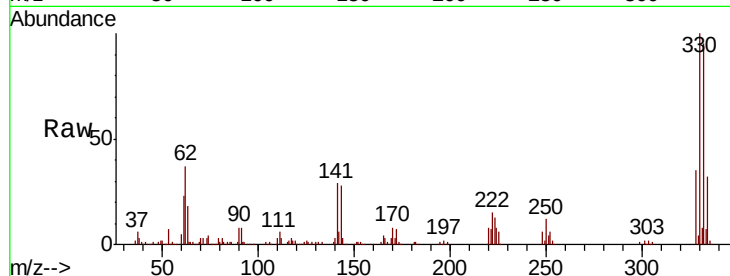




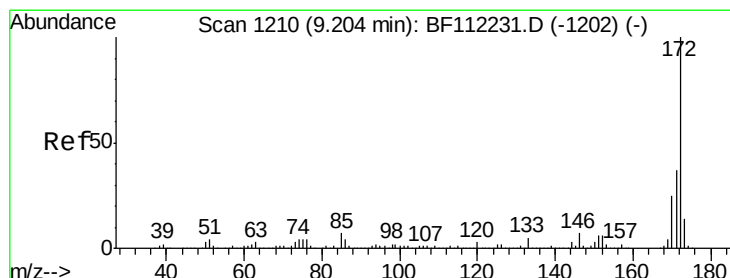
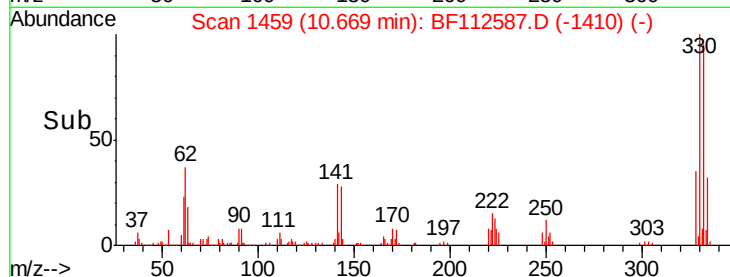
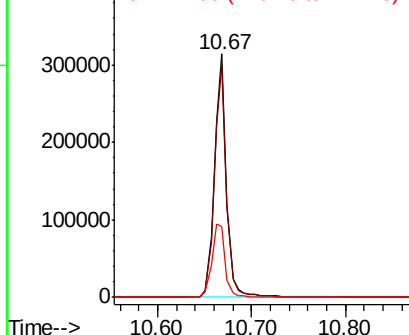
#42
 2,4,6-Tribromophenol
 Concen: 114.299 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF112587.D
 Acq: 15 Feb 2019 19:09

Instrument :
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 CL-01-021419-A

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	114.8
141	34.1	24.3	36.5

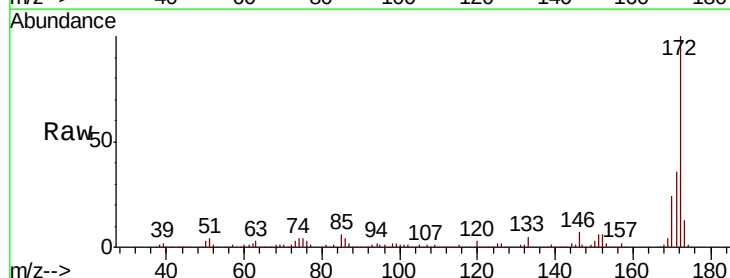


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

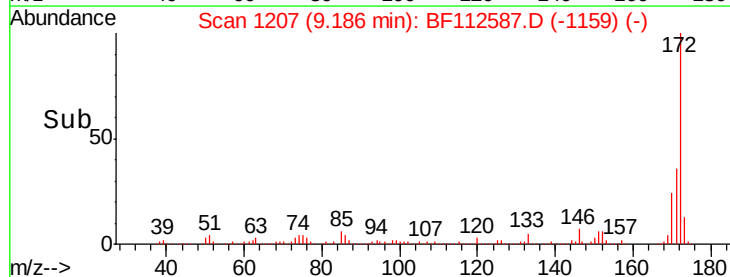
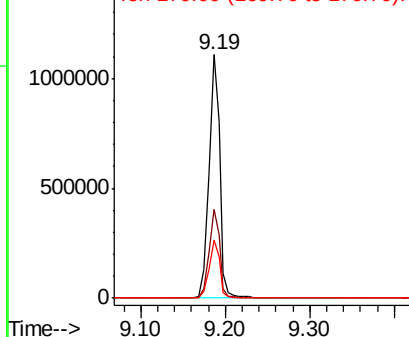


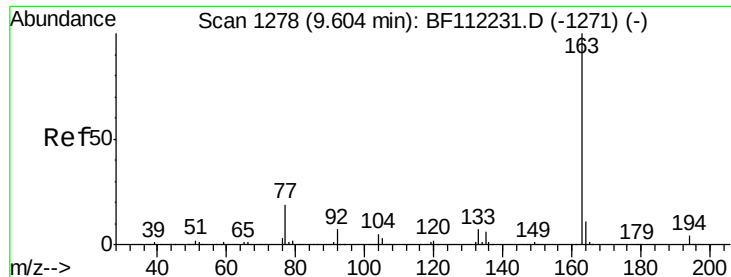
#45
 2-Fluorobiphenyl
 Concen: 65.540 ng
 RT: 9.19 min Scan# 1207
 Delta R.T. -0.02 min
 Lab File: BF112587.D
 Acq: 15 Feb 2019 19:09

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	30.5	45.7
170	23.6	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

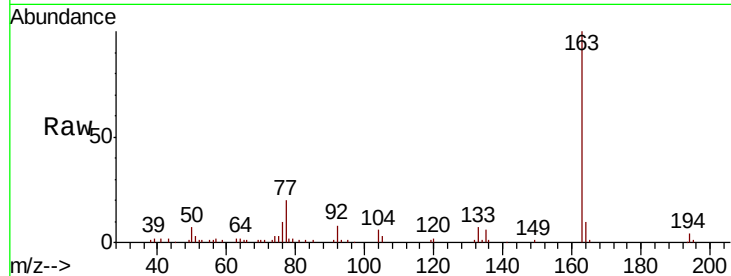




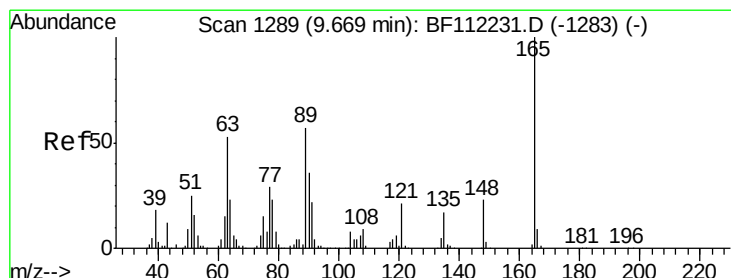
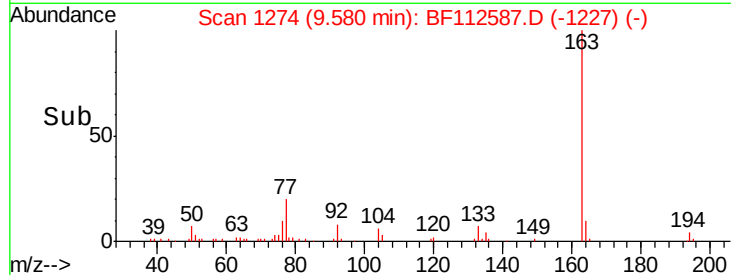
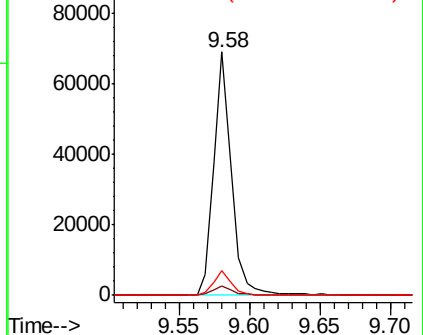
#50
Dimethylphthalate
Concen: 3.628 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.02 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

Instrument :
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CL-01-021419-A

Tgt Ion:163 Resp: 60462
Ion Ratio Lower Upper
163 100
194 3.7 3.3 4.9
164 10.4 8.5 12.7

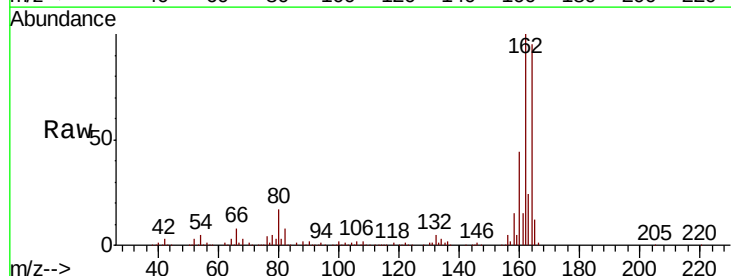


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

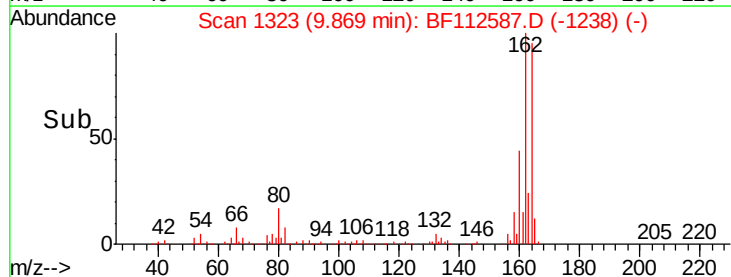
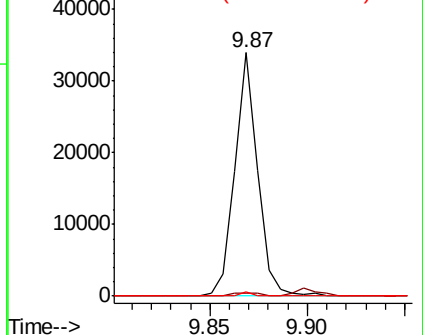


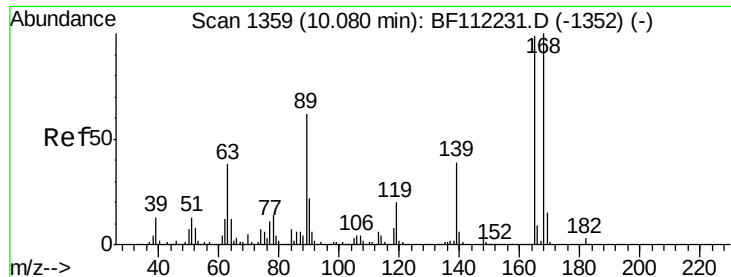
#51
2,6-Dinitrotoluene
Concen: 7.389 ng
RT: 9.87 min Scan# 1323
Delta R.T. 0.20 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

Tgt Ion:165 Resp: 27576
Ion Ratio Lower Upper
165 100
63 1.3 33.8 50.8#
89 1.5 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: 5.804 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.21 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

Tgt Ion:165 Resp: 27576

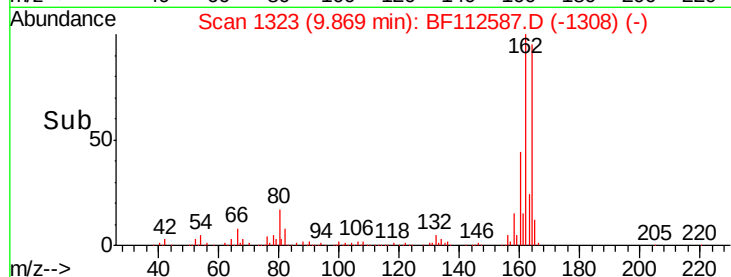
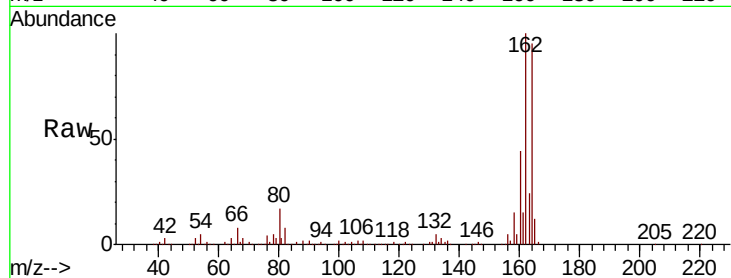
Ion Ratio Lower Upper

165 100

63 1.3 27.9 41.9#

89 1.5 47.9 71.9#

182 0.0 2.2 3.4#

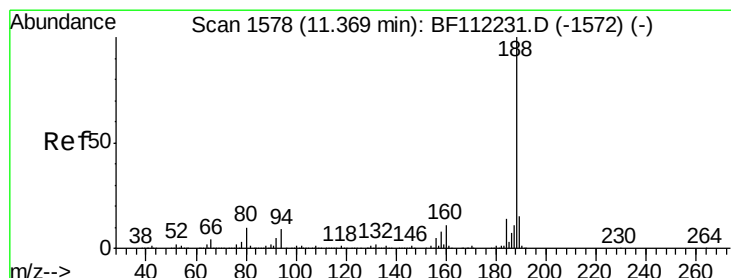
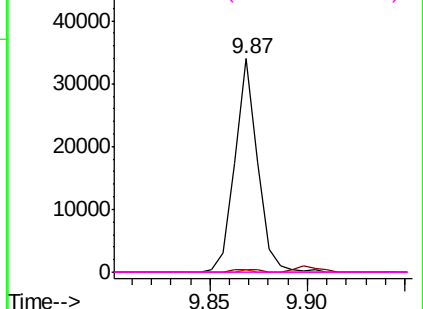


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. -0.01 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

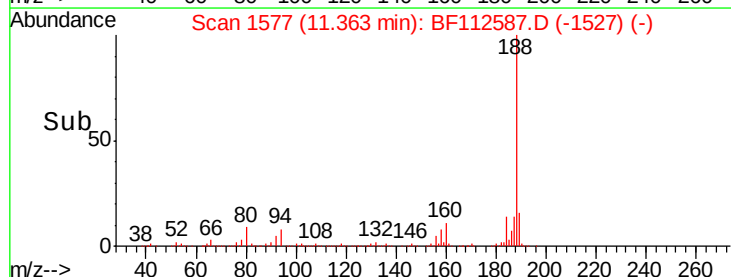
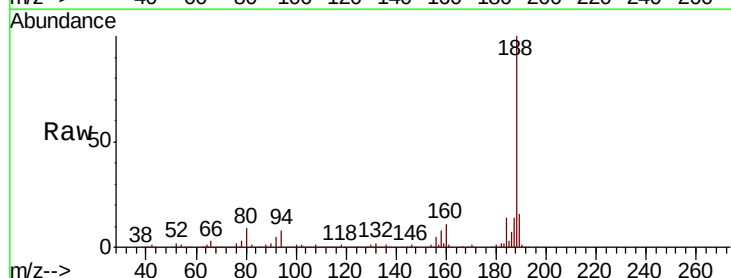
Tgt Ion:188 Resp: 425485

Ion Ratio Lower Upper

188 100

94 7.7 8.2 12.2#

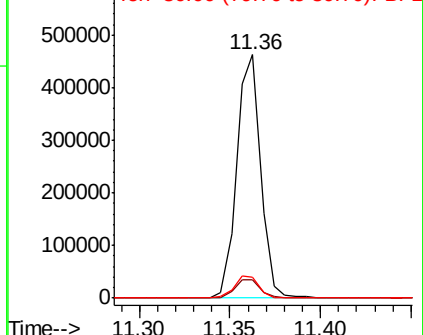
80 8.8 8.9 13.3#

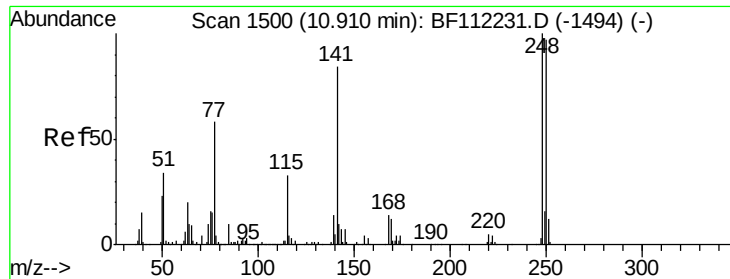


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

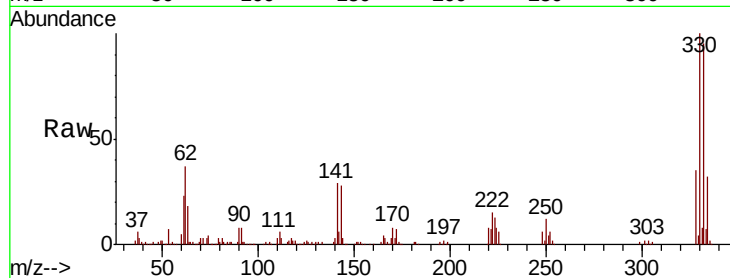




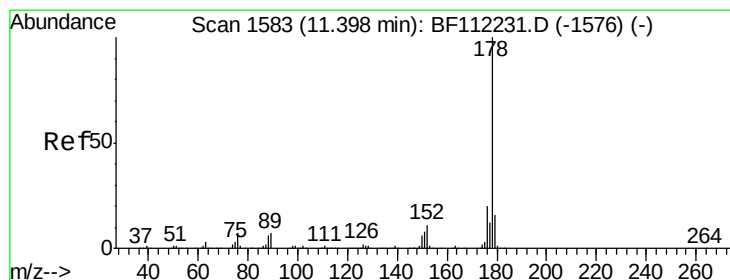
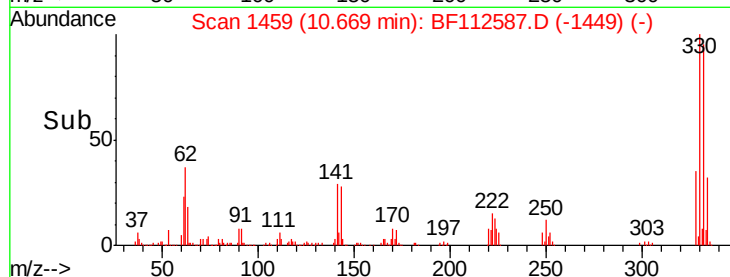
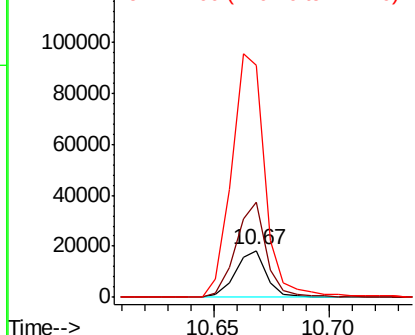
#67
 4-Bromophenyl-phenylether
 Concen: 3.462 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.24 min
 Lab File: BF112587.D
 Acq: 15 Feb 2019 19:09

Instrument :
 BNA_F
 ClientSampleId :
 CL-01-021419-A

Tgt Ion: 248 Resp: 17323
 Ion Ratio Lower Upper
 248 100
 250 201.8 79.7 119.5#
 141 493.4 60.3 90.5#

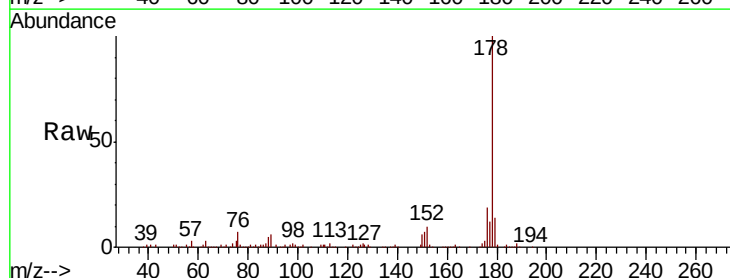


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

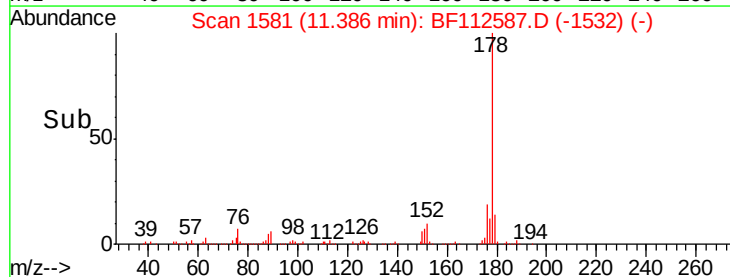
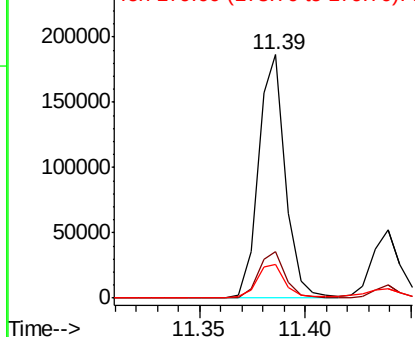


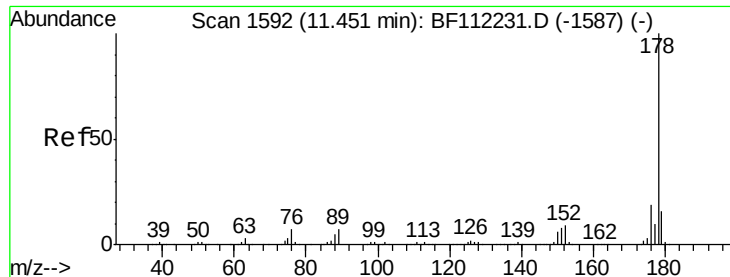
#71
 Phenanthrene
 Concen: 7.457 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: BF112587.D
 Acq: 15 Feb 2019 19:09

Tgt Ion: 178 Resp: 164952
 Ion Ratio Lower Upper
 178 100
 176 19.0 16.3 24.5
 179 14.1 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: 2.105 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

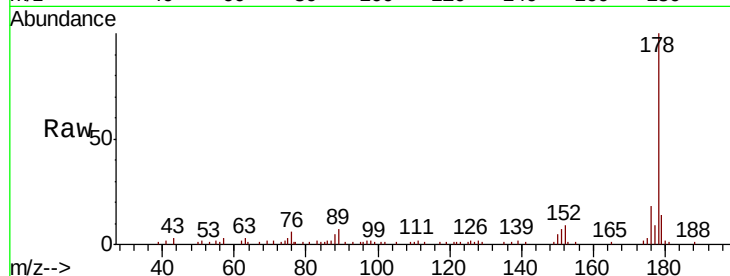
Tgt Ion:178 Resp: 46375

Ion Ratio Lower Upper

178 100

176 18.5 15.5 23.3

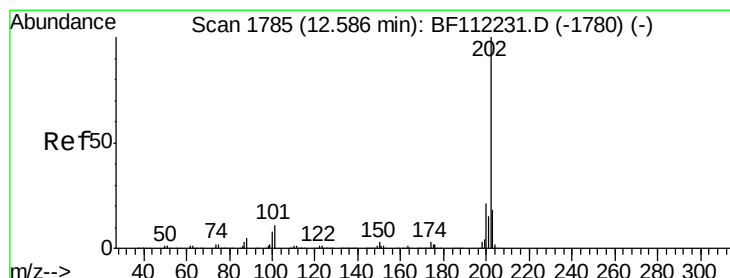
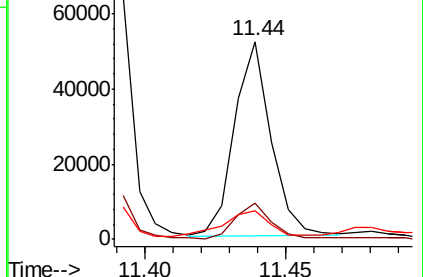
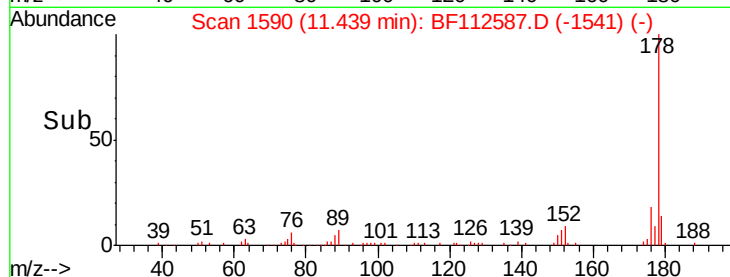
179 14.4 12.8 19.2



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: 12.114 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

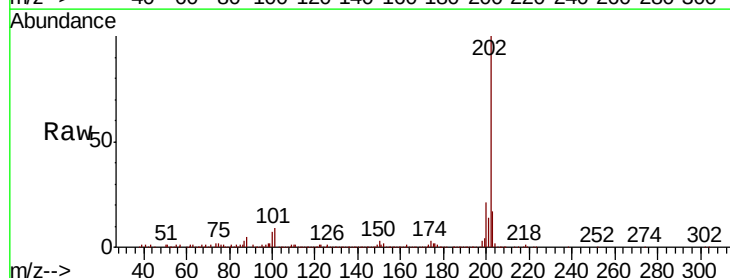
Tgt Ion:202 Resp: 287405

Ion Ratio Lower Upper

202 100

101 9.1 0.0 31.8

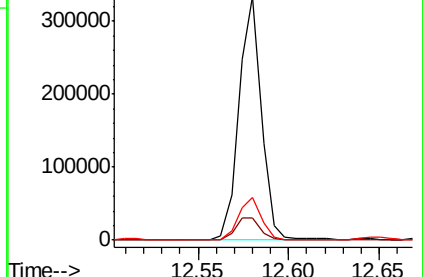
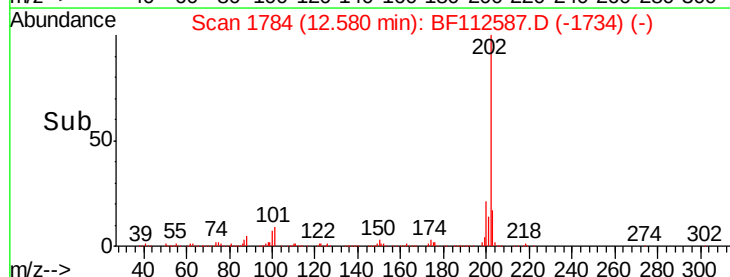
203 17.4 0.0 38.4

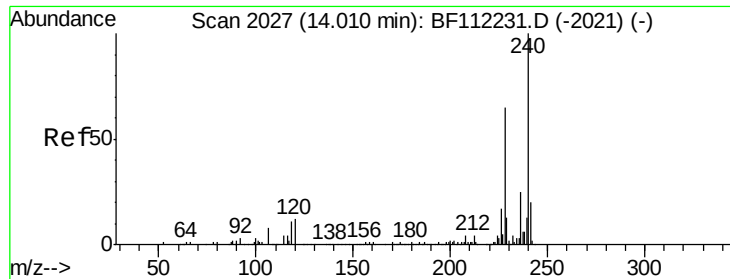


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

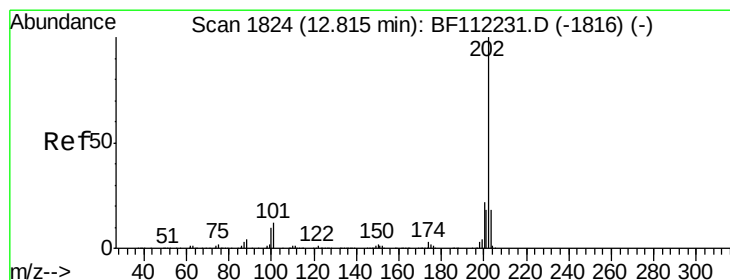
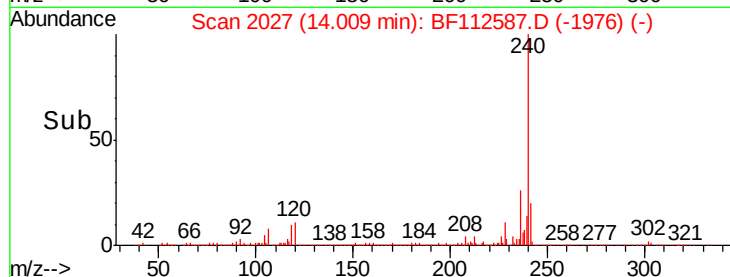
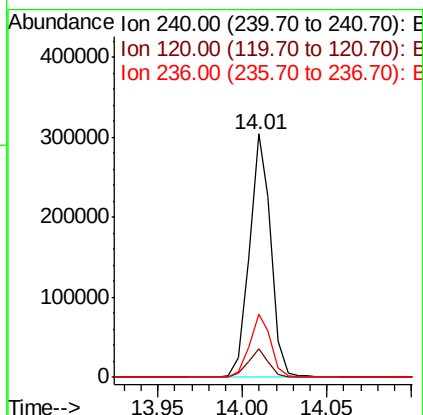
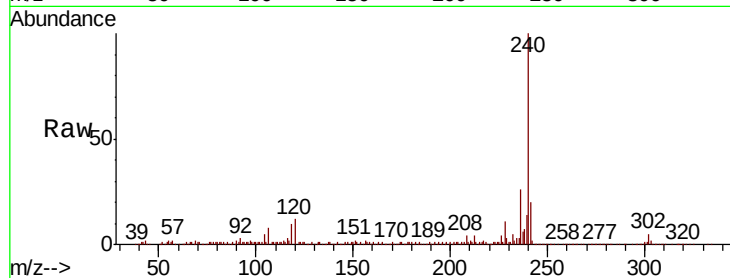




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.00 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

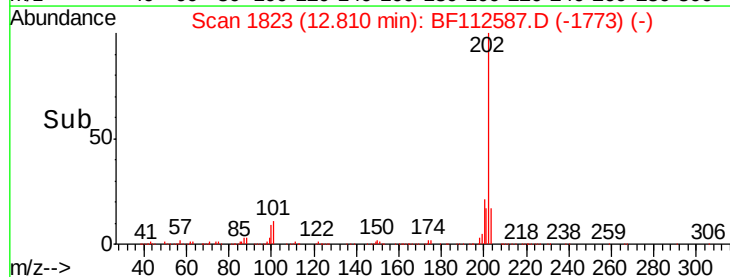
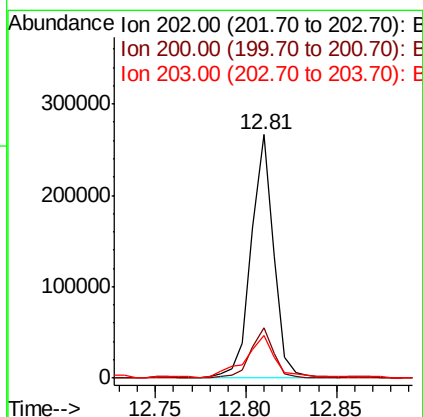
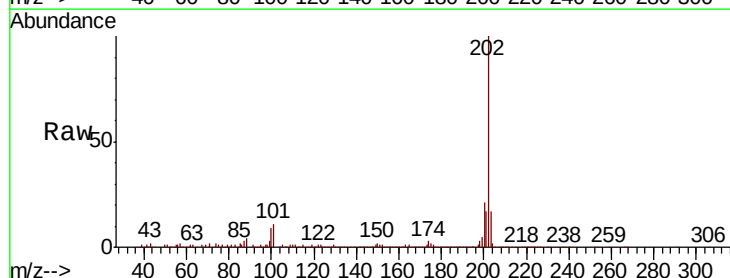
Instrument :
BNA_F
ClientSampleId :
CL-01-021419-A

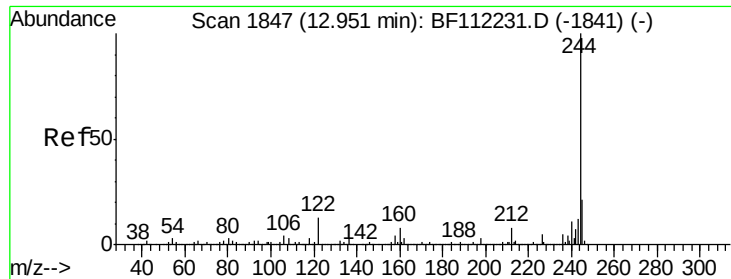
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.0	13.6
236	26.0	20.7	31.1



#78
Pyrene
Concen: 12.325 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.7	26.5
203	17.3	14.6	22.0





#79

Terphenyl-d14

Concen: 70.833 ng

RT: 12.94 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

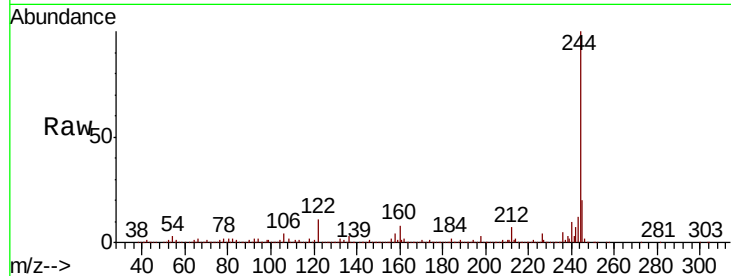
Tgt Ion:244 Resp: 1006236

Ion Ratio Lower Upper

244 100

212 7.1 5.9 8.9

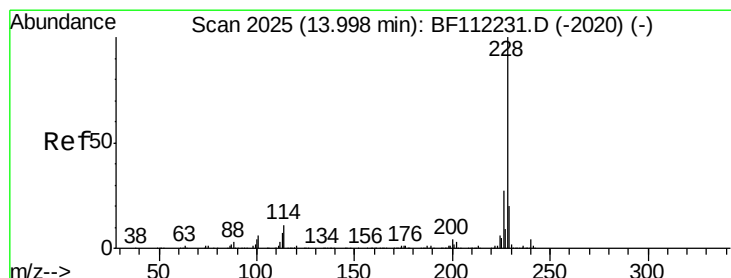
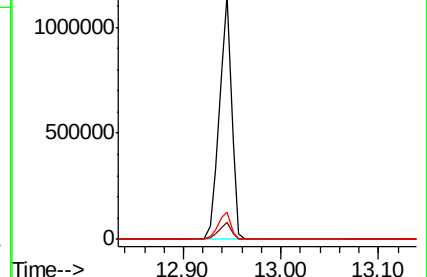
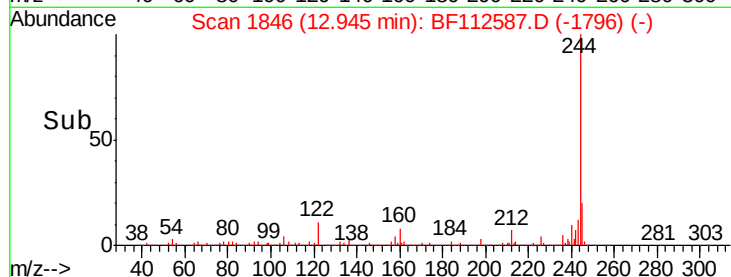
122 11.2 9.8 14.6



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: 6.901 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.00 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

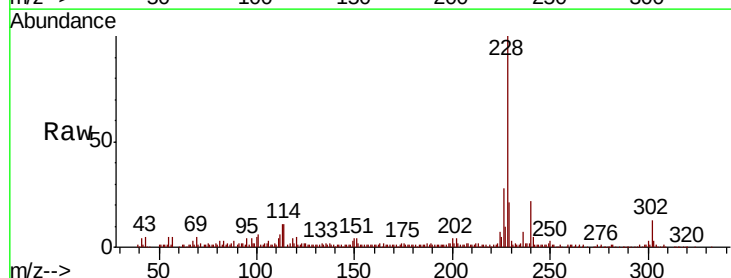
Tgt Ion:228 Resp: 108542

Ion Ratio Lower Upper

228 100

226 27.7 22.6 34.0

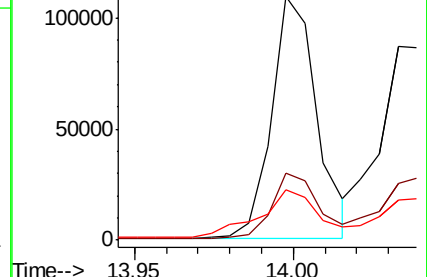
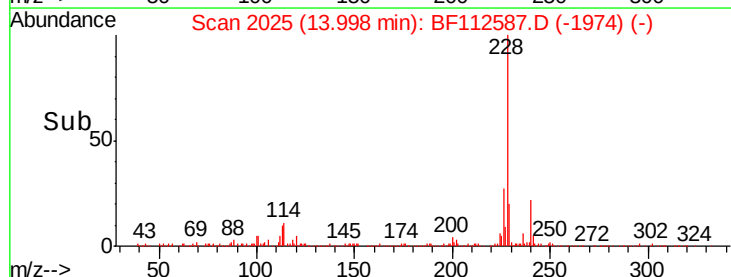
229 20.5 16.5 24.7

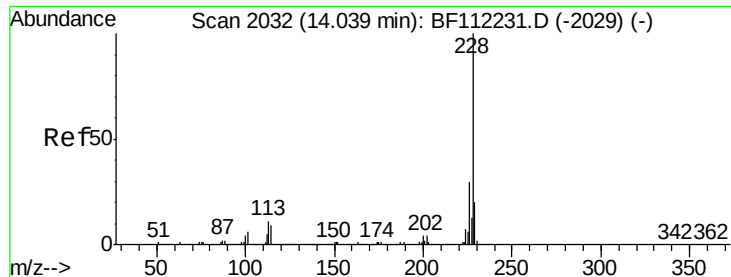


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

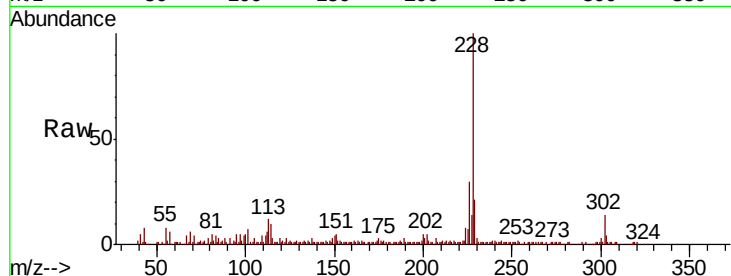




#83
Chrysene
Concen: 6.412 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

Instrument :
BNA_F
ClientSampleId :
CL-01-021419-A

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.0	37.6
229	21.0	16.6	24.8

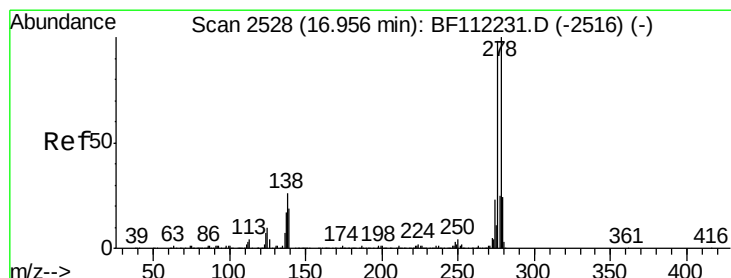
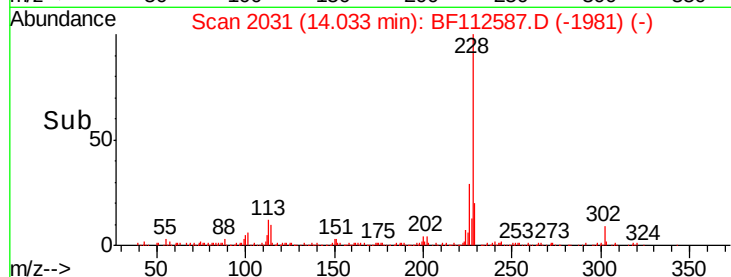
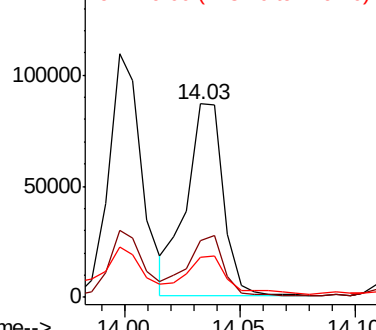


Abundance

Ion 228.00 (227.70 to 228.70): E

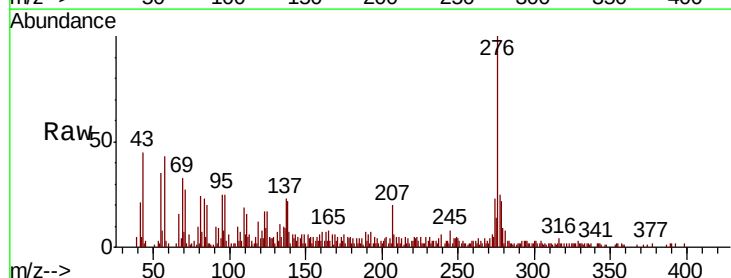
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.871 ng
RT: 16.99 min Scan# 2534
Delta R.T. 0.04 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.4	22.6	34.0#
277	23.6	20.3	30.5

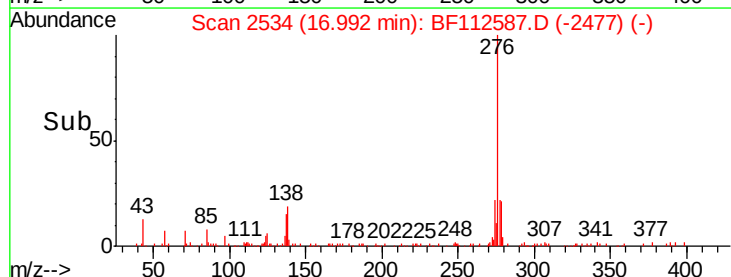
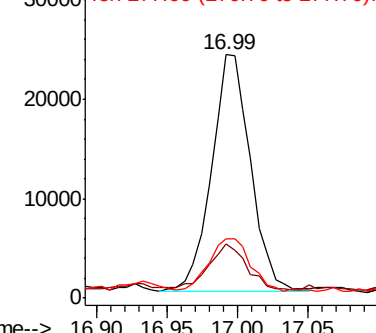


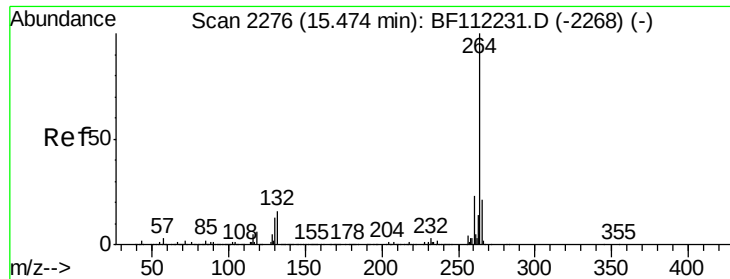
Abundance

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

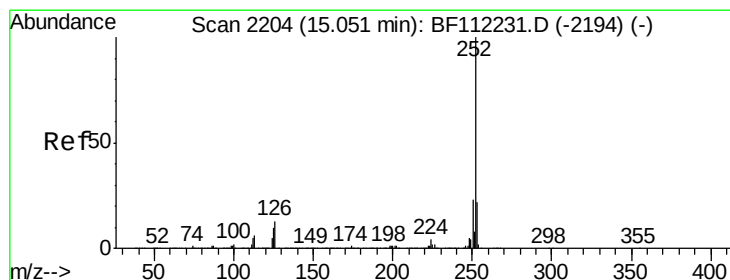
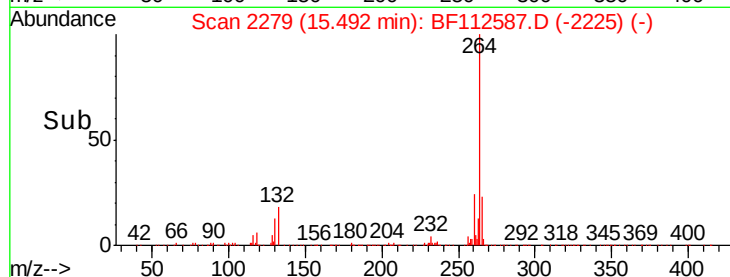
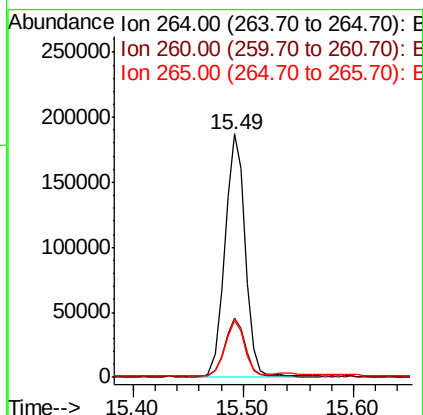
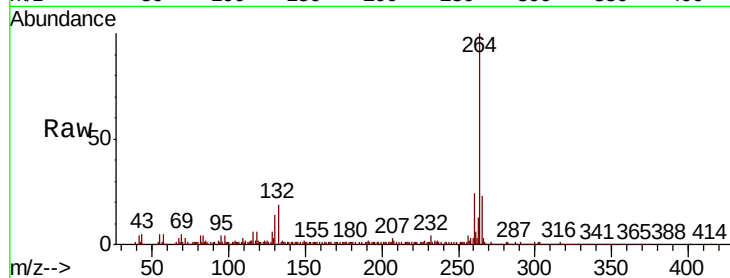




#87
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.02 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

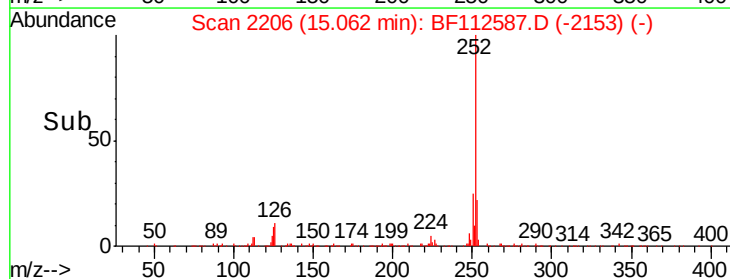
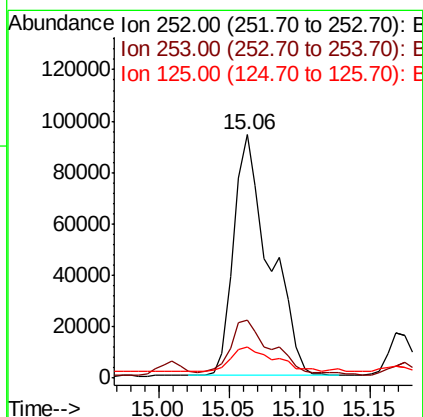
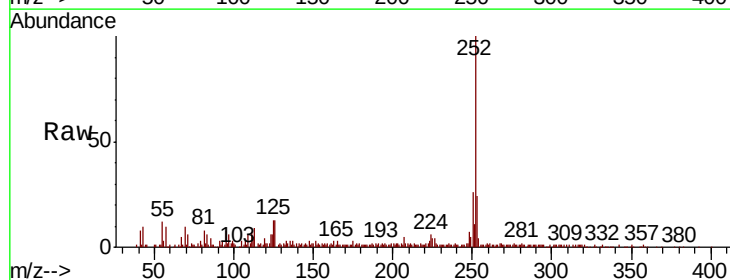
Instrument :
BNA_F
ClientSampleId :
CL-01-021419-A

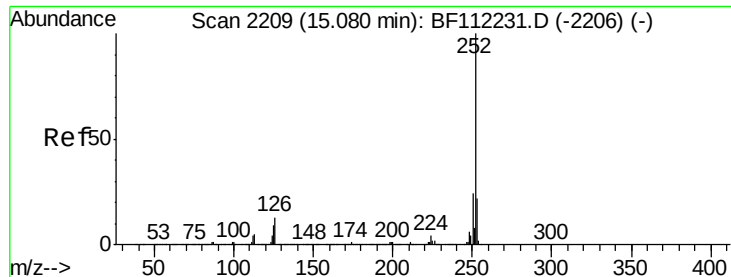
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.2	27.2
265	23.4	17.0	25.4



#88
Benzo(b)fluoranthene
Concen: 11.586 ng
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF112587.D
Acq: 15 Feb 2019 19:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.0	27.0
125	12.6	8.7	13.1





#89

Benzo(k)fluoranthene

Concen: 12.096 ng

RT: 15.06 min Scan# 2206

Delta R.T. -0.02 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

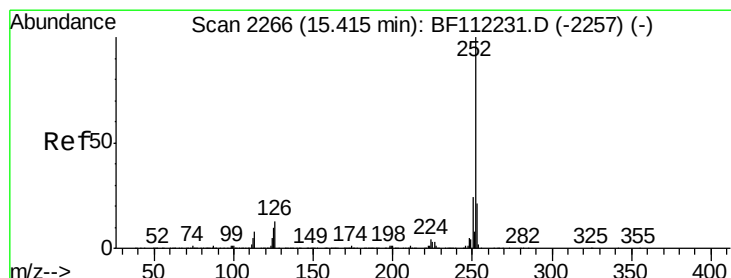
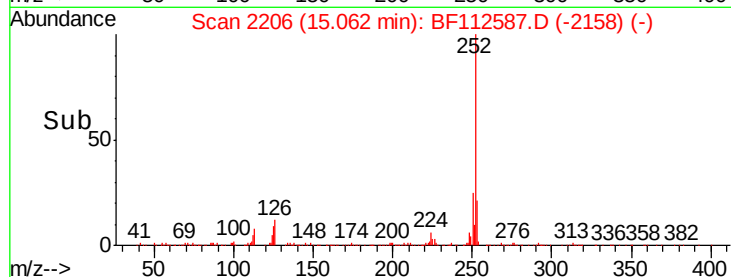
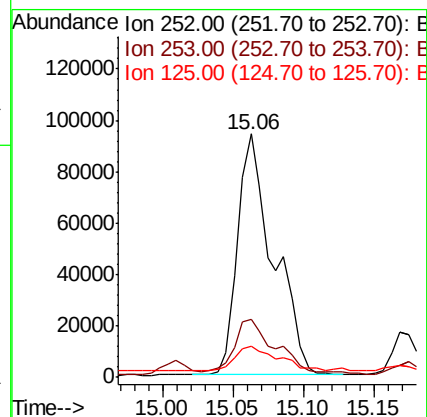
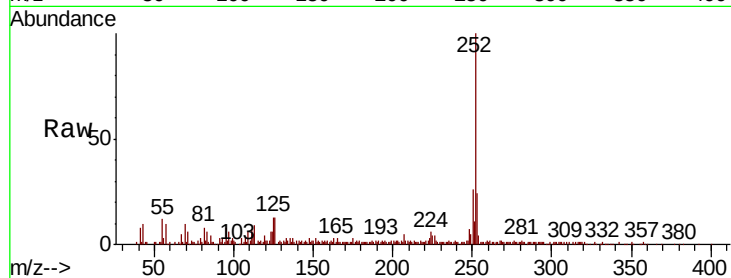
Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

Tgt Ion:	252	Resp:	165711
Ion Ratio	Lower	Upper	
252	100		
253	24.0	18.0	27.0
125	12.6	9.1	13.7



#90

Benzo(a)pyrene

Concen: 6.811 ng

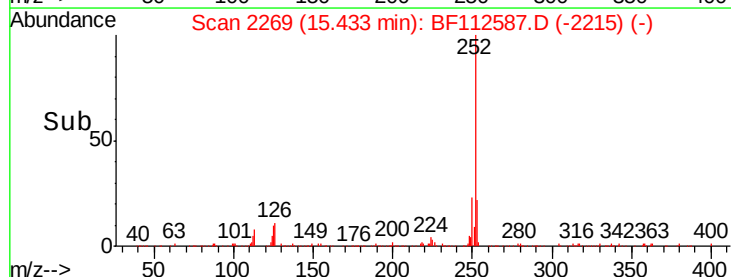
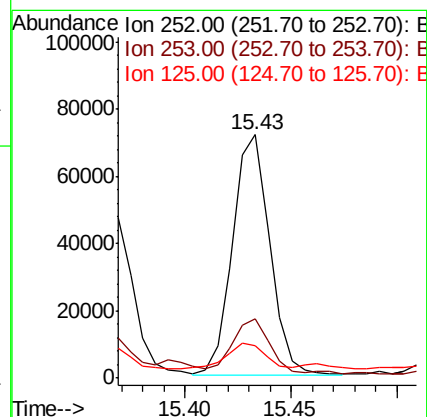
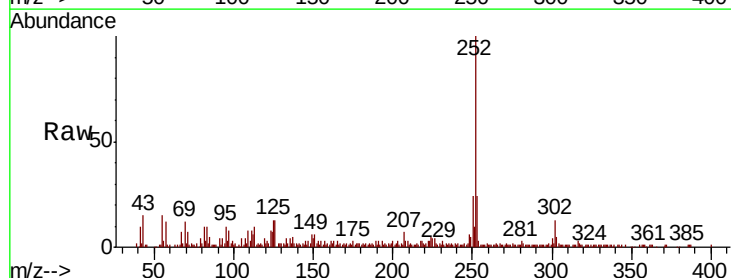
RT: 15.43 min Scan# 2269

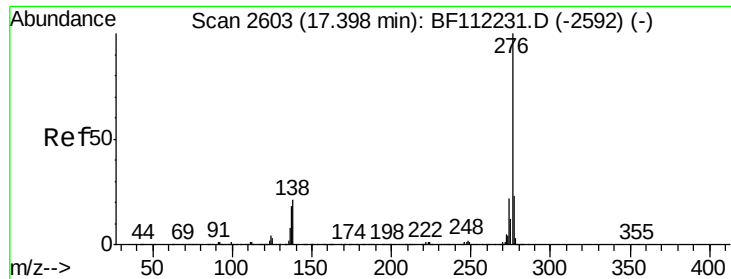
Delta R.T. 0.02 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Tgt Ion:	252	Resp:	87650
Ion Ratio	Lower	Upper	
252	100		
253	24.2	17.5	26.3
125	13.3	9.0	13.4





#92

Benzo(g,h,i)perylene

Concen: 4.146 ng

RT: 17.46 min Scan# 2613

Delta R.T. 0.06 min

Lab File: BF112587.D

Acq: 15 Feb 2019 19:09

Instrument :

BNA_F

ClientSampleId :

CL-01-021419-A

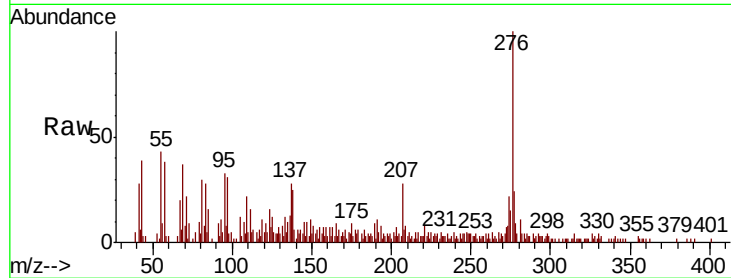
Tgt Ion: 276 Resp: 40569

Ion Ratio Lower Upper

276 100

277 24.2 19.4 29.0

138 24.7 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

