

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041618\
 Data File : BF104542.D
 Acq On : 16 Apr 2018 19:34
 Operator : JU/SJ
 Sample : J2393-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 3-4-DENSE-GRADE-AGG-RCA

Quant Time: Apr 17 00:55:59 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 16 12:15:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	151927	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	628124	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	286823	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	492903	20.00	ng	0.00
75) Chrysene-d12	13.98	240	292143	20.00	ng	-0.01
86) Perylene-d12	15.44	264	300305	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.43	112	26632	2.68	ng	0.00
7) Phenol-d6	6.44	99	391087	32.03	ng	-0.01
23) Nitrobenzene-d5	7.37	82	644758	67.03	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	677	0.23	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	1158180	63.79	ng	0.00
78) Terphenyl-d14	12.93	244	979124	76.41	ng	0.00

Target Compounds

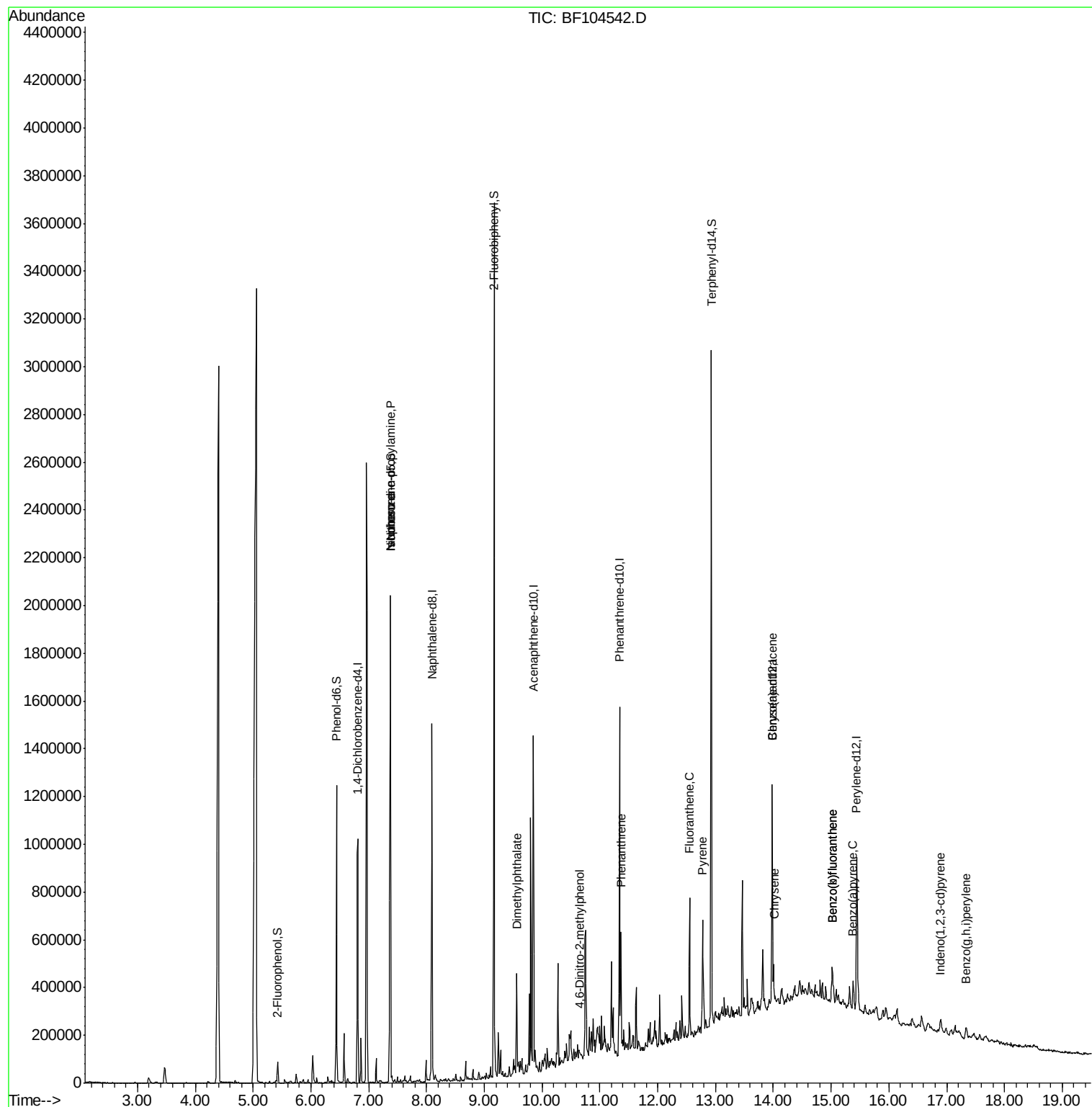
						Qvalue
9) Benzaldehyde	6.36	77	1065	Below Cal	#	76
19) n-Nitroso-di-n-propylamine	7.37	70	89308	11.195	ng	# 73
25) Isophorone	7.37	82	642477	31.585	ng	# 64
49) Dimethylphthalate	9.56	163	142337	6.293	ng	98
64) 4,6-Dinitro-2-methylphenol	10.66	198	461	7.510	ng	# 1
70) Phenanthrene	11.36	178	167952	6.119	ng	96
74) Fluoranthene	12.55	202	192385	6.708	ng	99
76) Benzydine	12.93	184	13973	Below Cal		95
77) Pyrene	12.78	202	176375	8.145	ng	99
80) Benzo(a)anthracene	13.97	228	67396	3.862	ng	96
82) Chrysene	14.01	228	63729	3.555	ng	98
85) Indeno(1,2,3-cd)pyrene	16.90	276	36430	2.392	ng	95
87) Benzo(b)fluoranthene	15.02	252	99714	5.257	ng	# 90
88) Benzo(k)fluoranthene	15.02	252	99714	5.569	ng	# 93
89) Benzo(a)pyrene	15.38	252	55103	3.247	ng	# 89
91) Benzo(g,h,i)perylene	17.34	276	33376	2.472	ng	# 91

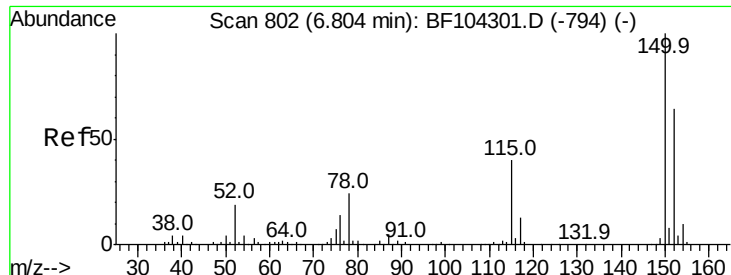
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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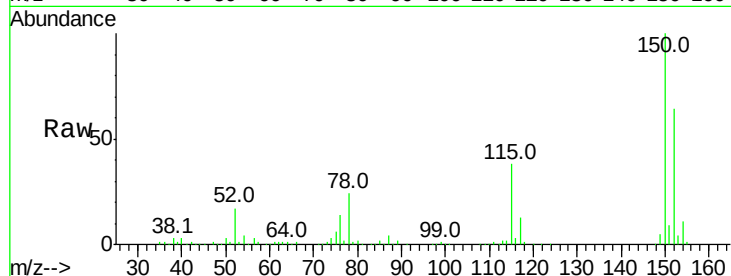


#1

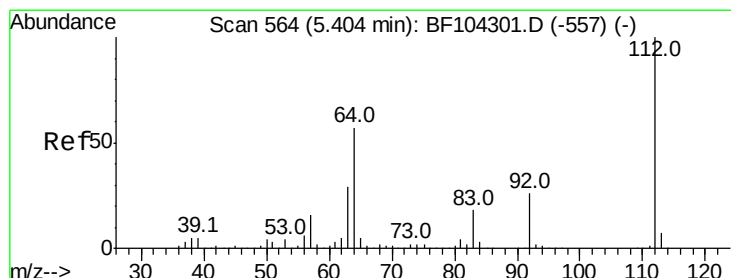
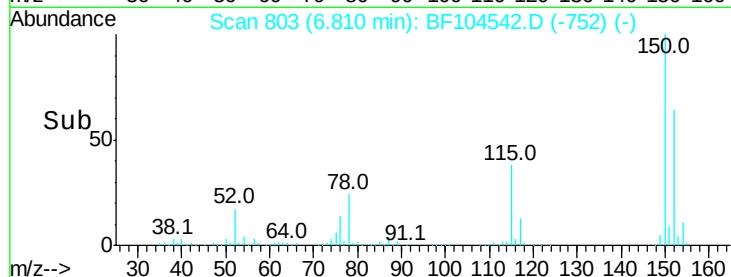
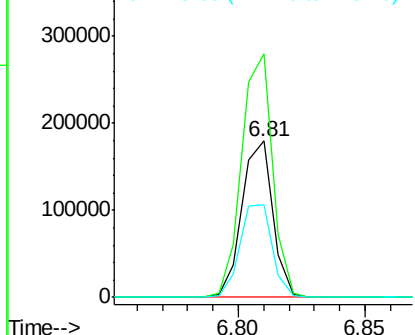
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.00 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

Instrument :
 BNA_F
 ClientSampleId :
 3-4-DENSE-GRADE-AGG-RCA

Tot Ion:152 Resp: 151927
 Ion Ratio Lower Upper
 152 100
 150 155.8 124.6 186.8
 115 59.7 50.1 75.1



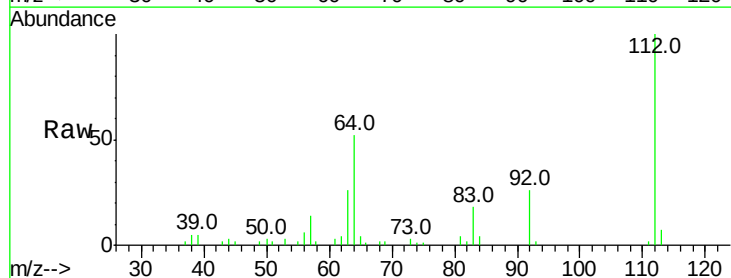
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



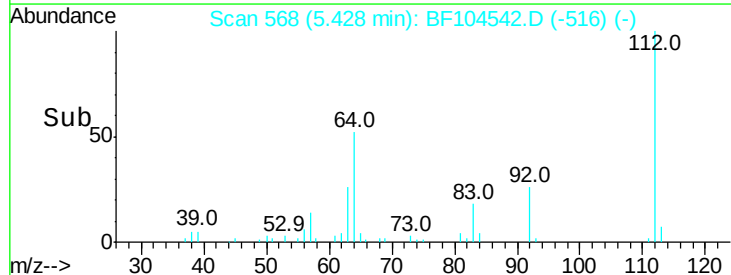
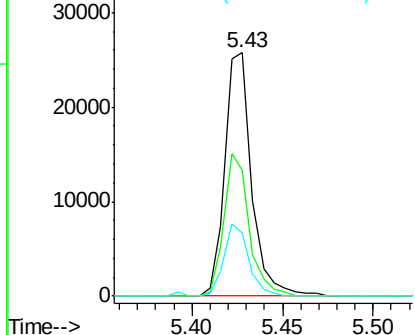
#5

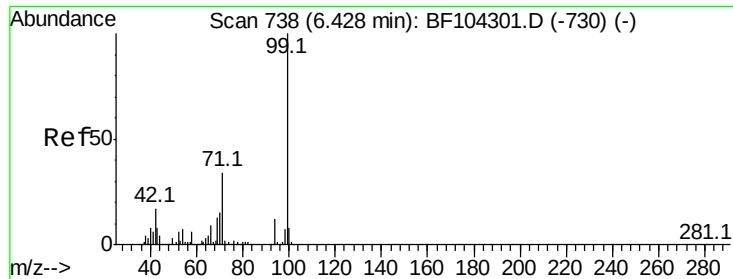
2-Fluorophenol
 Concen: 2.680 ng
 RT: 5.43 min Scan# 568
 Delta R.T. 0.01 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

Tgt Ion:112 Resp: 26632
 Ion Ratio Lower Upper
 112 100
 64 51.8 47.9 71.9
 63 26.0 23.7 35.5



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: 32.035 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA_F

ClientSampleId :

3-4-DENSE-GRADE-AGG-RCA

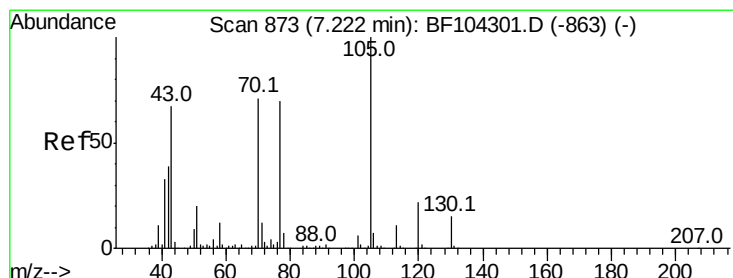
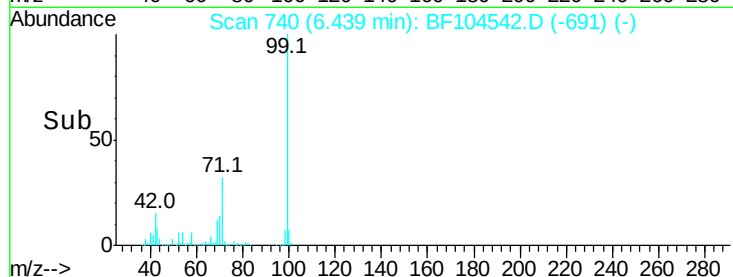
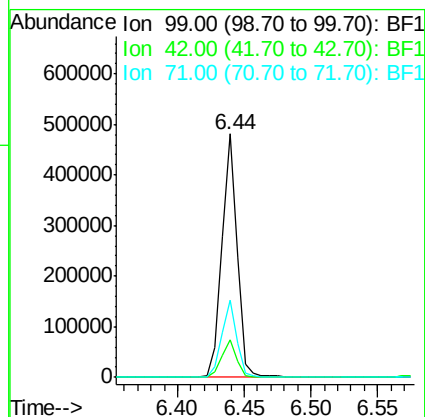
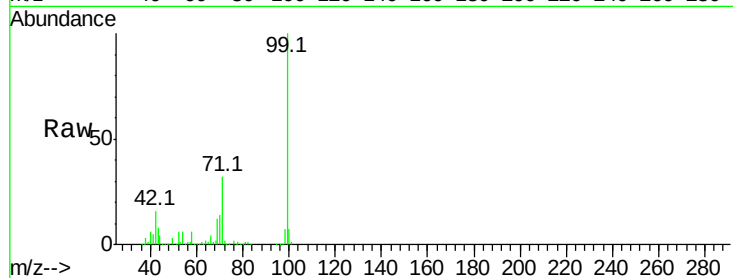
Tot Ion: 99 Resp: 391087

Ion Ratio Lower Upper

99 100

42 15.6 14.5 21.7

71 31.6 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 11.195 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Tgt Ion: 70 Resp: 89308

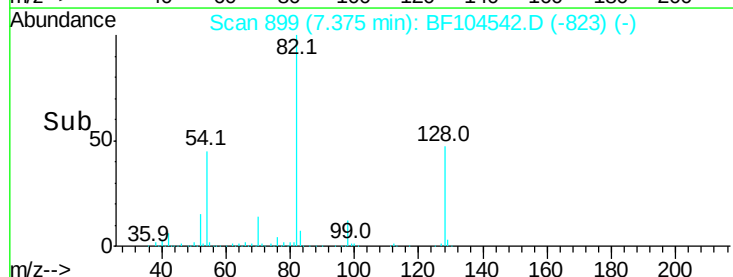
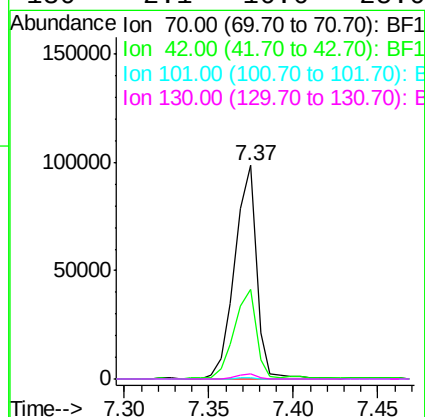
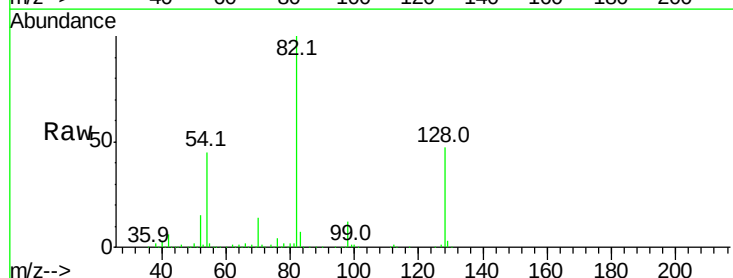
Ion Ratio Lower Upper

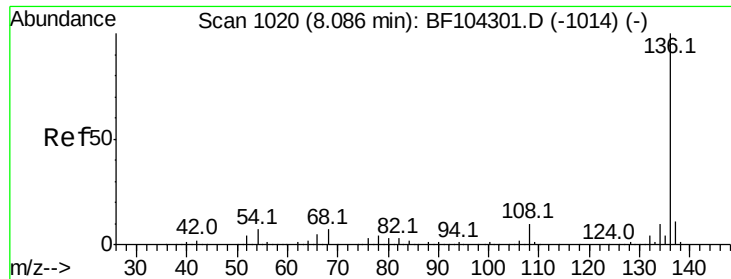
70 100

42 41.8 47.5 71.3#

101 0.3 7.4 11.2#

130 2.1 16.6 25.0#

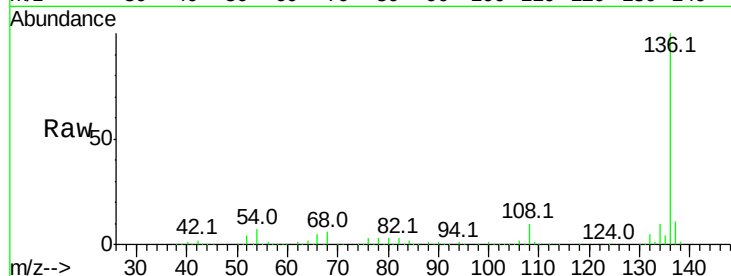




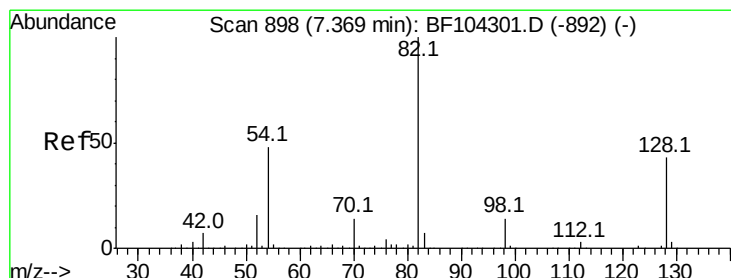
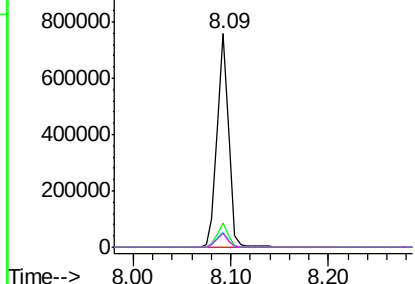
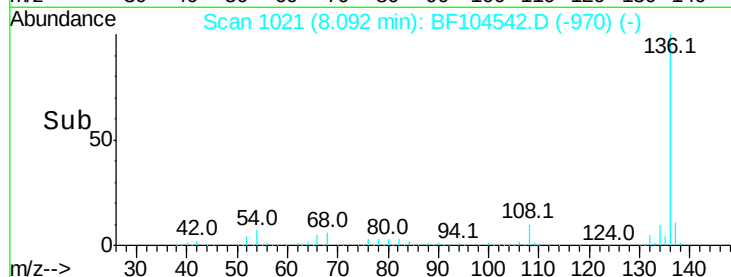
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BF104542.D
Acq: 16 Apr 2018 19:34

Instrument :
BNA_F
ClientSampleId :
3-4-DENSE-GRADE-AGG-RCA

Tot Ion:	136	Resp:	628124
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.2	6.6	9.8
68	6.4	5.0	7.4

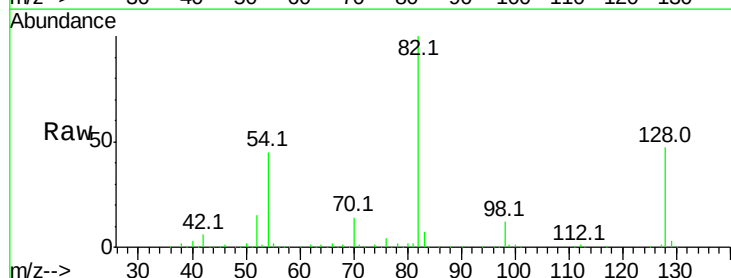


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

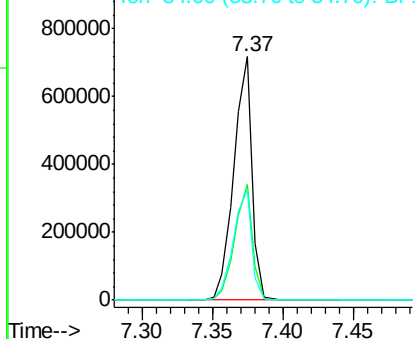
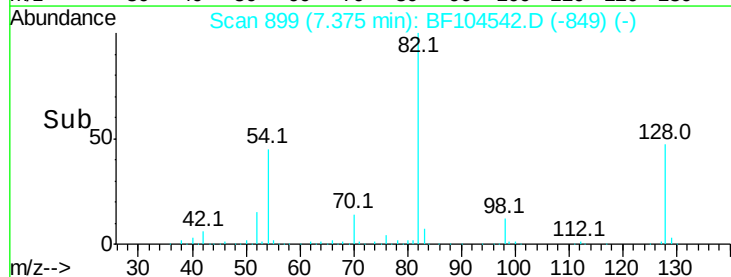


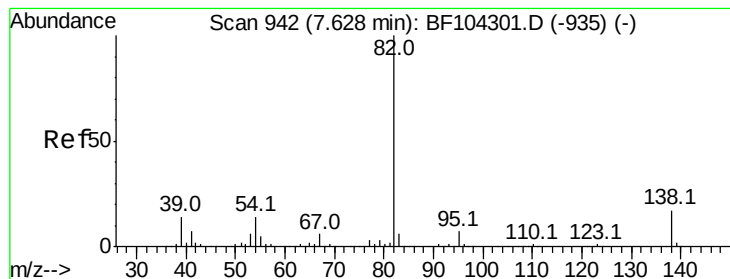
#23
Nitrobenzene-d5
Concen: 67.027 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF104542.D
Acq: 16 Apr 2018 19:34

Tgt Ion:	82	Resp:	644758
Ion	Ratio	Lower	Upper
82	100		
128	47.3	36.1	54.1
54	45.3	41.4	62.2



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





#25

Isophorone

Concen: 31.585 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA_F

ClientSampleId :

3-4-DENSE-GRADE-AGG-RCA

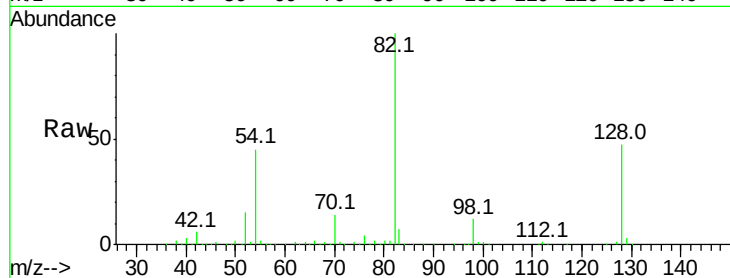
Tot Ion: 82 Resp: 642477

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

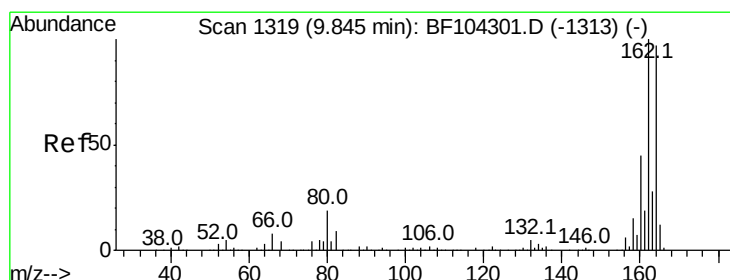
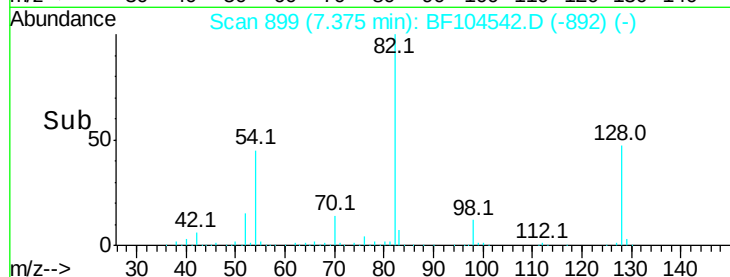
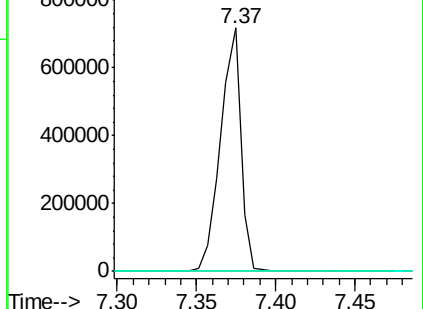
138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.00 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

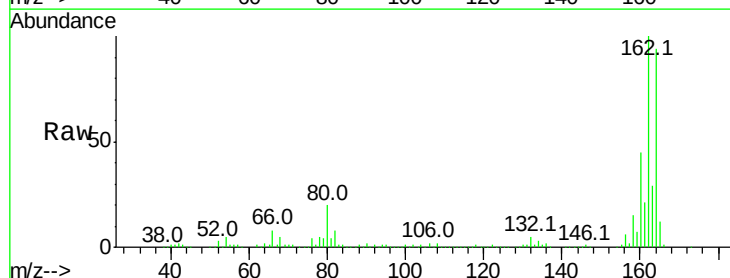
Tgt Ion: 164 Resp: 286823

Ion Ratio Lower Upper

164 100

162 105.9 86.1 129.1

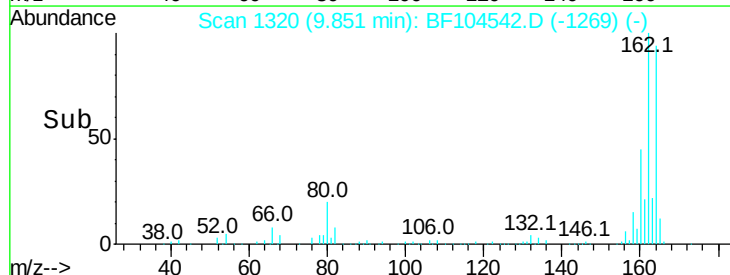
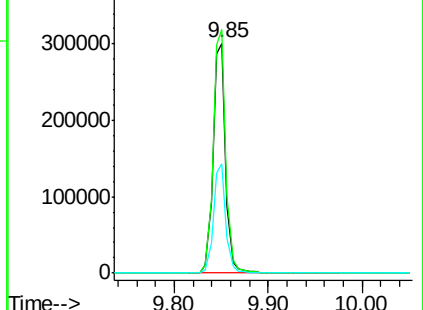
160 47.5 38.3 57.5

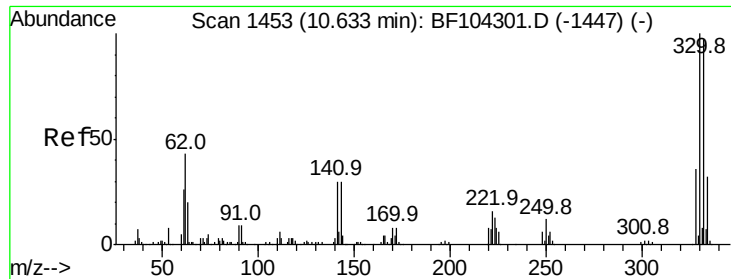


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

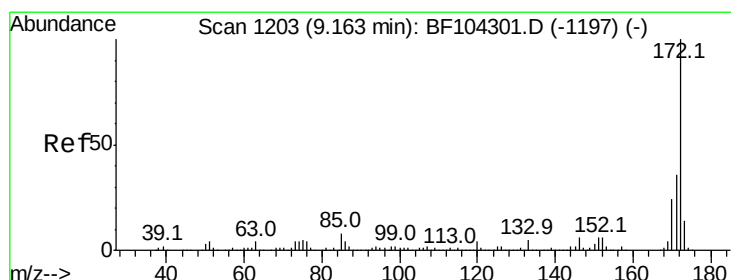
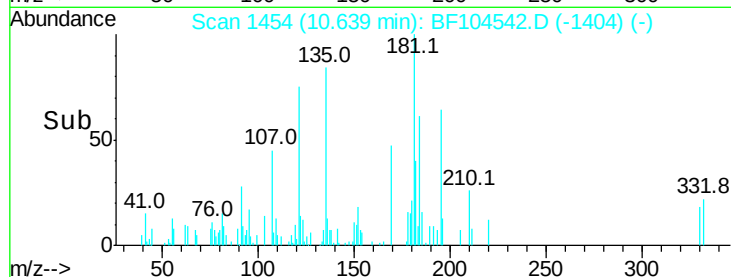
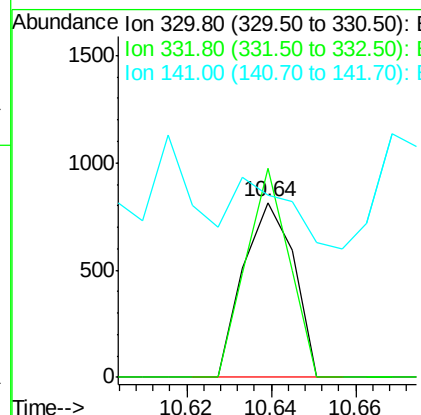
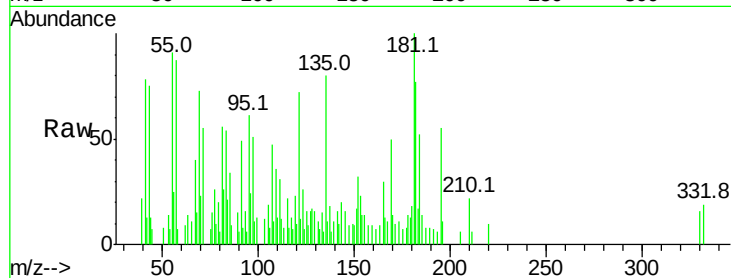




#41
 2,4,6-Tribromophenol
 Concen: 0.228 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

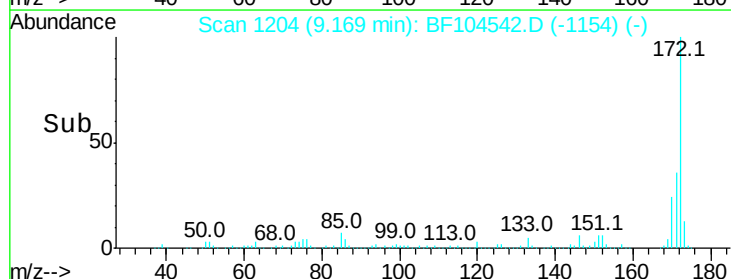
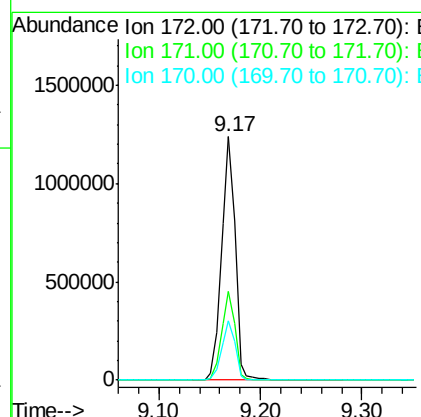
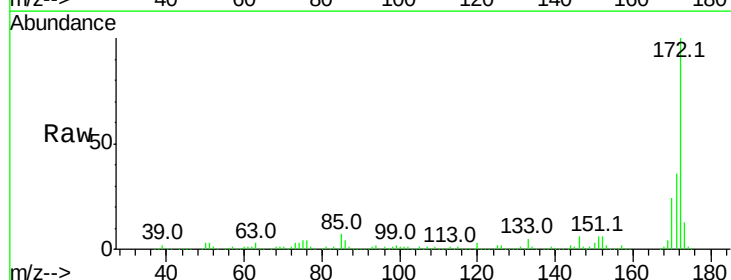
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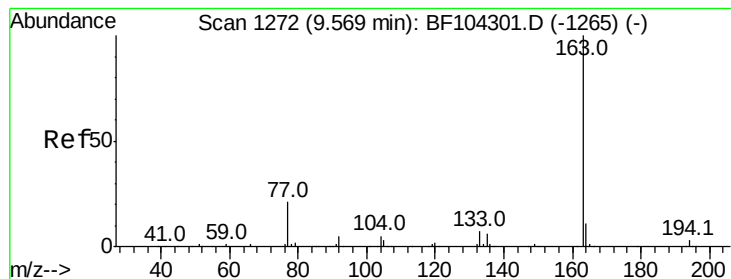
Tot Ion:330 Resp: 677
 Ion Ratio Lower Upper
 330 100
 332 102.2 77.0 115.6
 141 44.0 29.9 44.9



#44
 2-Fluorobiphenyl
 Concen: 63.790 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

Tgt Ion:172 Resp: 1158180
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.7 44.5
 170 24.3 19.6 29.4





#49

Dimethylphthalate

Concen: 6.293 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA_F

ClientSampleId :

3-4-DENSE-GRADE-AGG-RCA

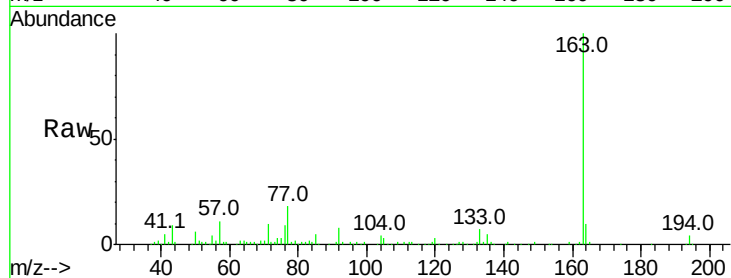
Tot Ion:163 Resp: 142337

Ion Ratio Lower Upper

163 100

194 3.9 2.7 4.1

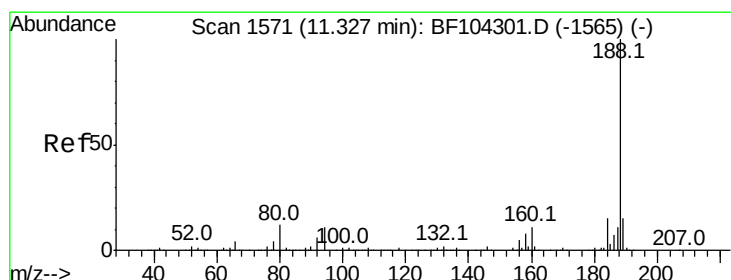
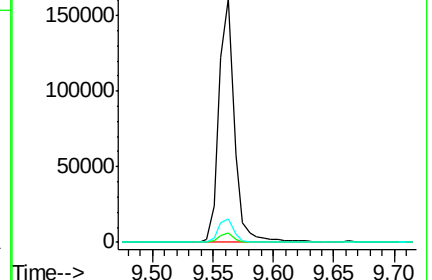
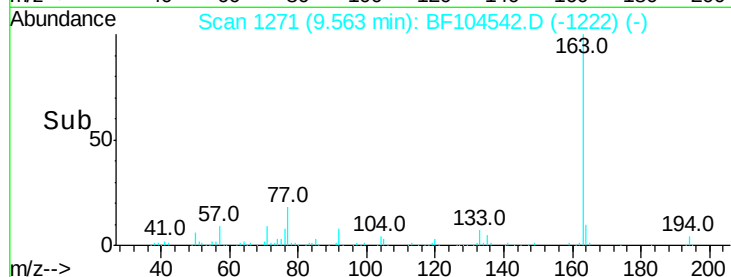
164 9.6 8.2 12.2



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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.00 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

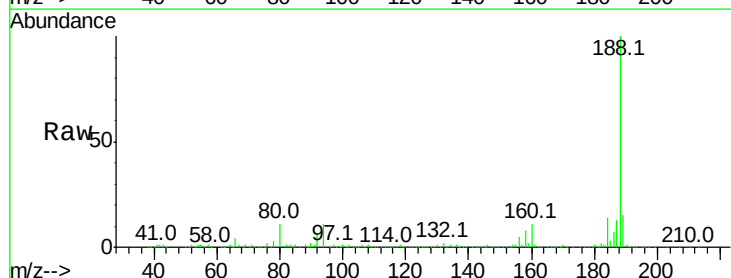
Tgt Ion:188 Resp: 492903

Ion Ratio Lower Upper

188 100

94 10.7 8.5 12.7

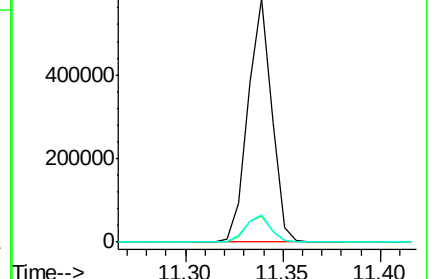
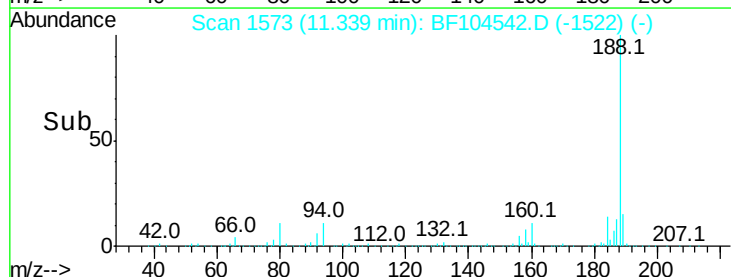
80 11.4 9.2 13.8

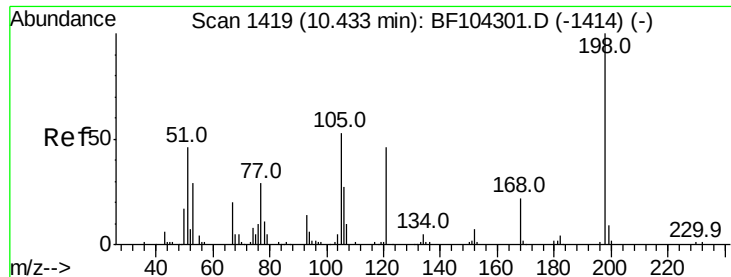


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

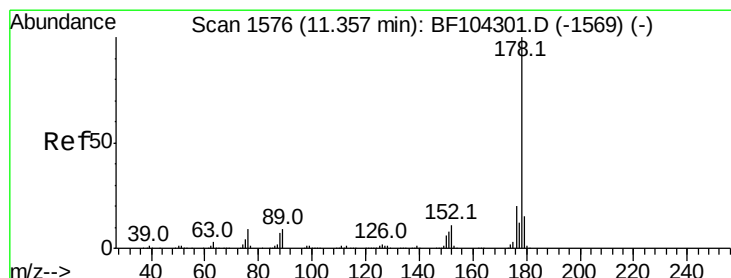
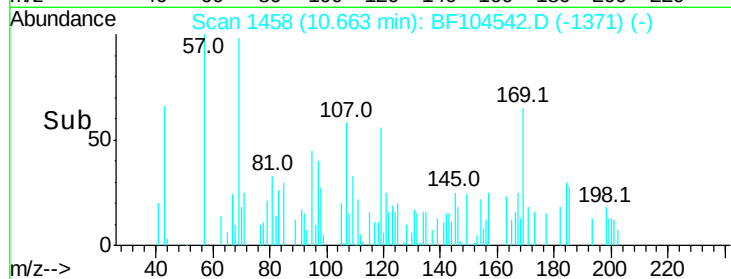
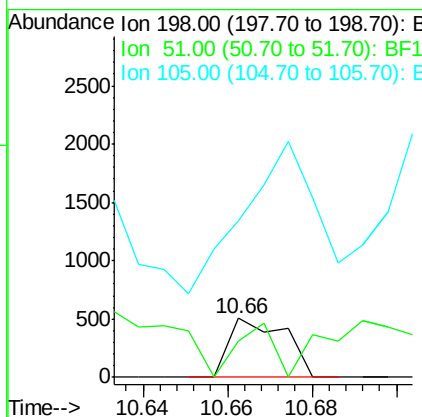
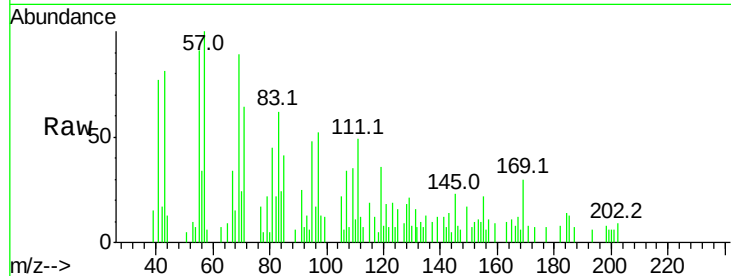




#64
 4,6-Dinitro-2-methylphenol
 Concen: 7.510 ng
 RT: 10.66 min Scan# 1458
 Delta R.T. 0.21 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

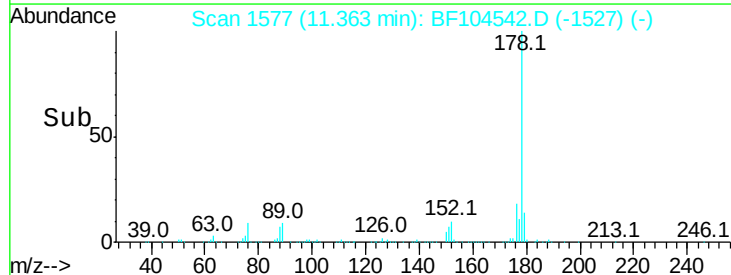
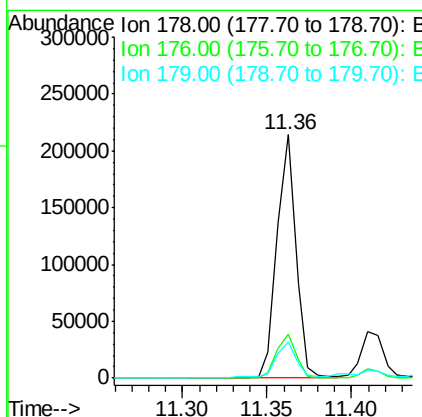
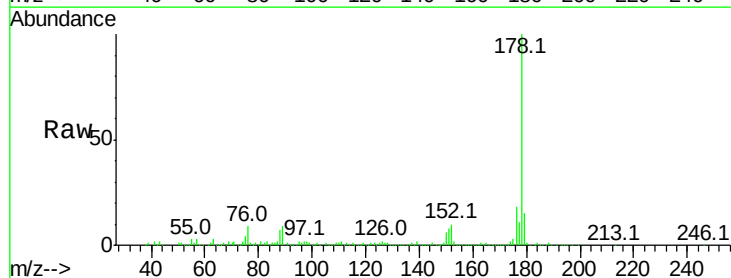
Instrument :
 BNA_F
 ClientSampleId :
 3-4-DENSE-GRADE-AGG-RCA

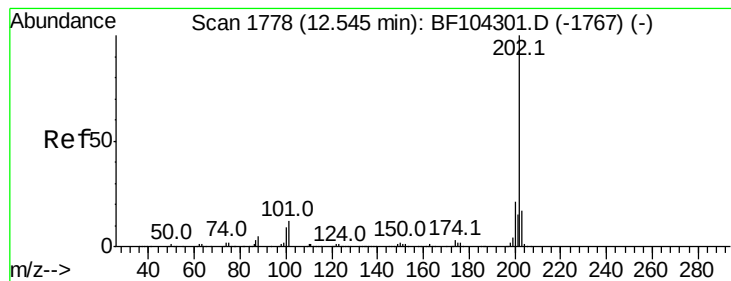
Tot Ion:198 Resp: 461
 Ion Ratio Lower Upper
 198 100
 51 62.5 37.7 77.7
 105 265.8 36.3 76.3#



#70
 Phenanthrene
 Concen: 6.119 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

Tgt Ion:178 Resp: 167952
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.8 23.8
 179 14.8 13.0 19.6





#74

Fluoranthene

Concen: 6.708 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA_F

ClientSampleId :

3-4-DENSE-GRADE-AGG-RCA

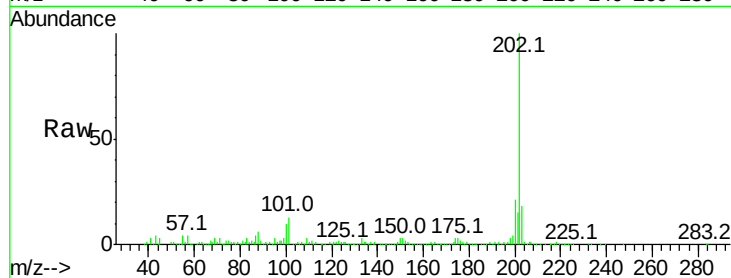
Tot Ion:202 Resp: 192385

Ion Ratio Lower Upper

202 100

101 13.5 0.0 34.1

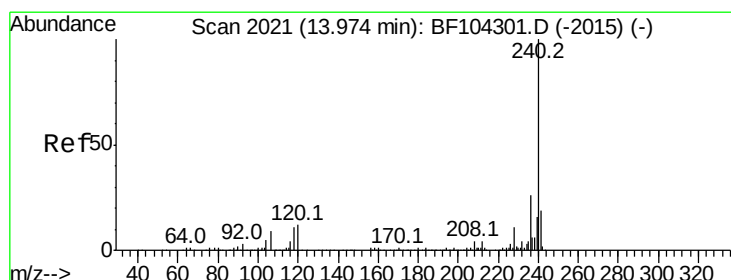
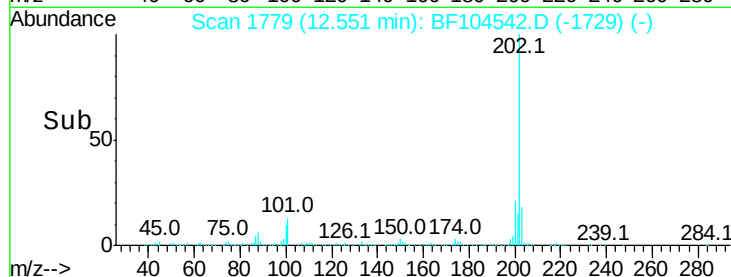
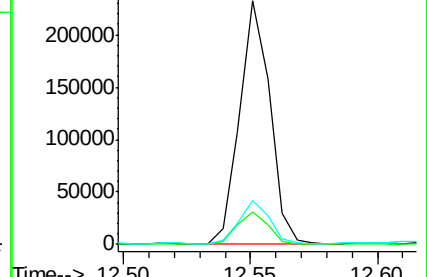
203 18.2 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

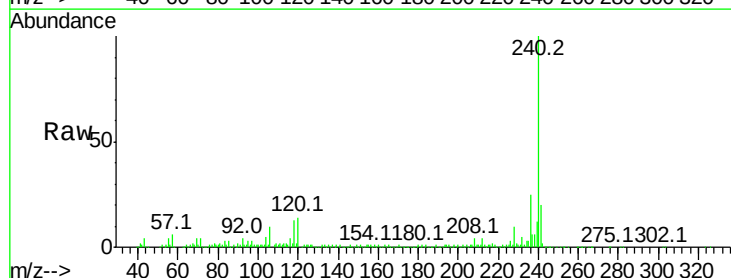
Tgt Ion:240 Resp: 292143

Ion Ratio Lower Upper

240 100

120 14.4 9.5 14.3#

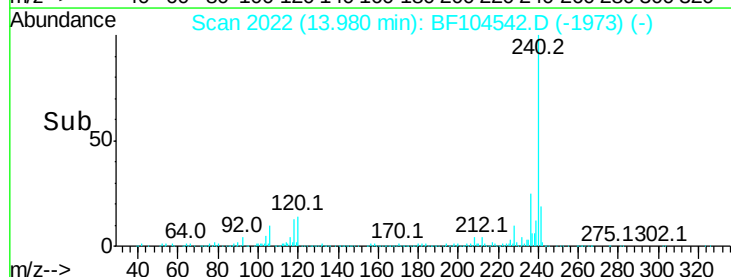
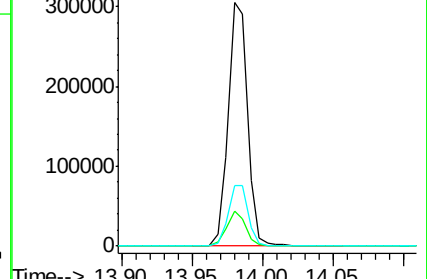
236 25.0 20.7 31.1

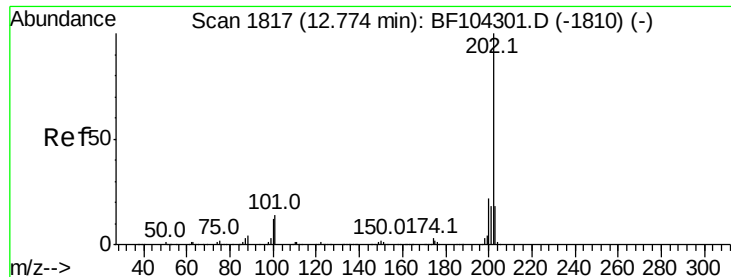


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 8.145 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA_F

ClientSampleId :

3-4-DENSE-GRADE-AGG-RCA

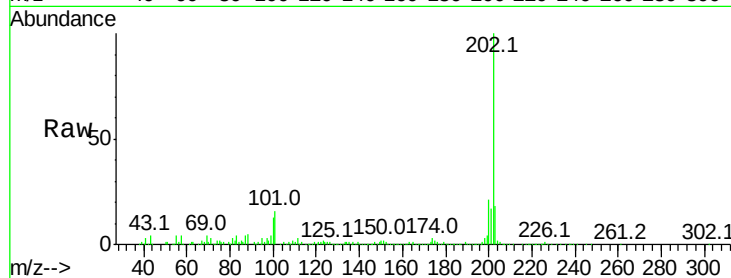
Tot Ion:202 Resp: 176375

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

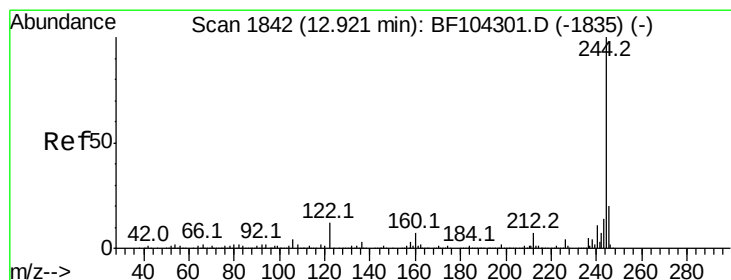
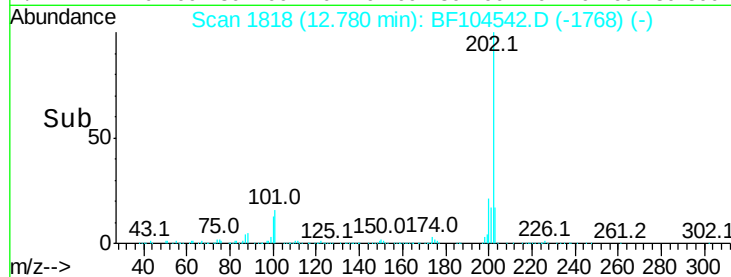
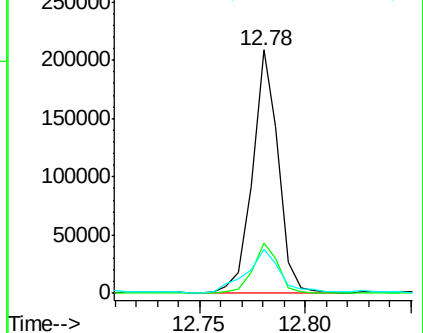
203 18.0 14.3 21.5



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



#78

Terphenyl-d14

Concen: 76.409 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

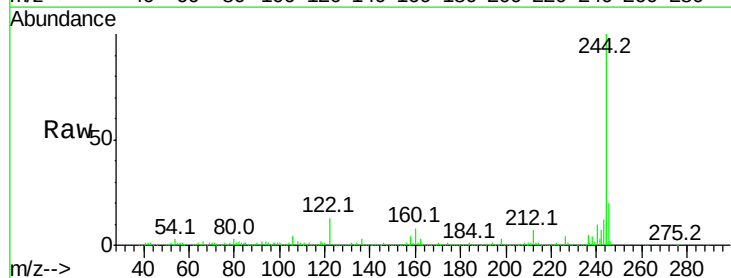
Tgt Ion:244 Resp: 979124

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

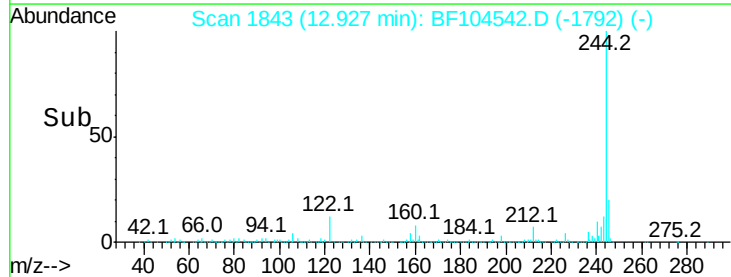
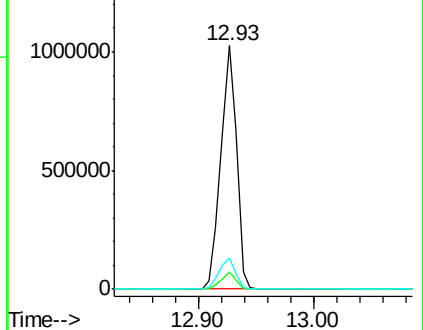
122 12.6 11.0 16.4

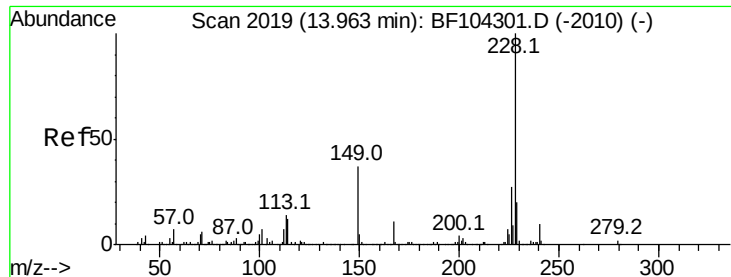


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

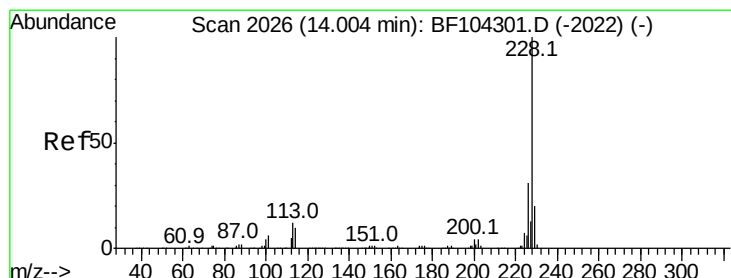
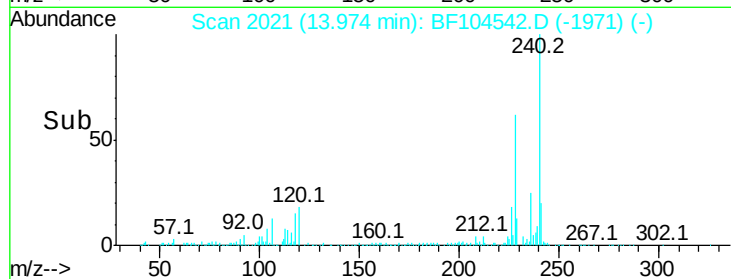
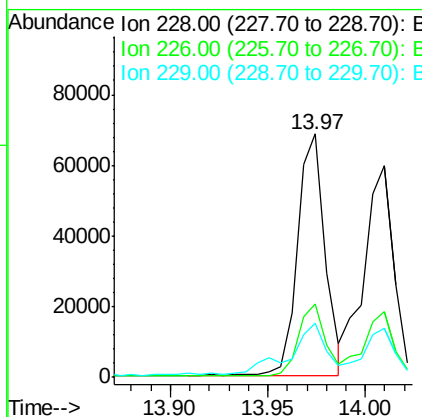
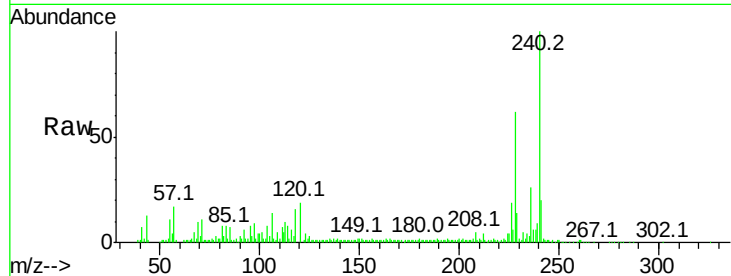




#80
Benzo(a)anthracene
Concen: 3.862 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF104542.D
Acq: 16 Apr 2018 19:34

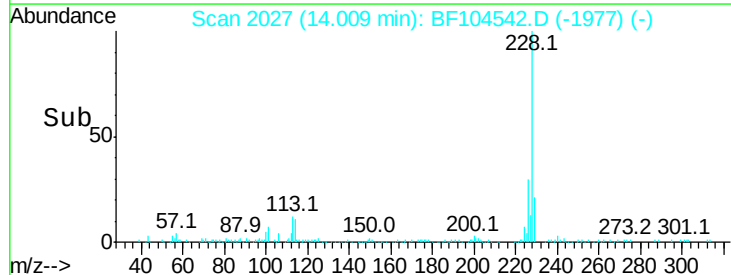
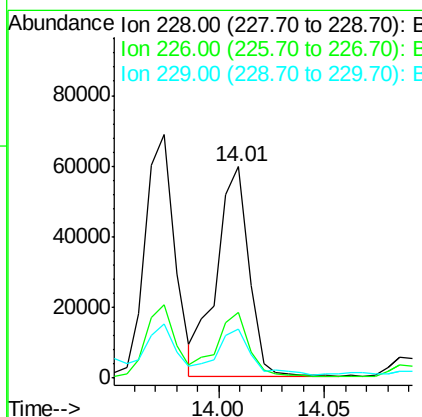
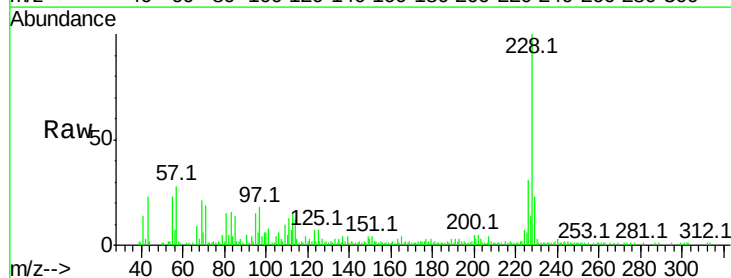
Instrument :
BNA_F
ClientSampleId :
3-4-DENSE-GRADE-AGG-RCA

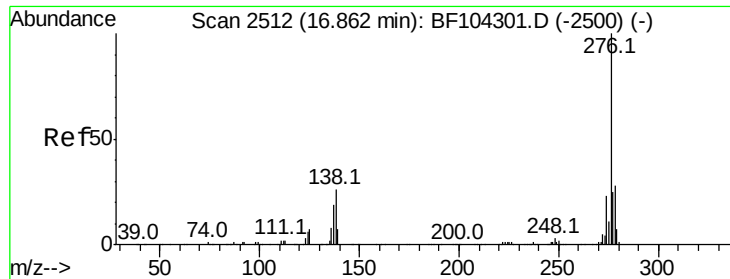
Tot Ion:228 Resp: 67396
Ion Ratio Lower Upper
228 100
226 30.2 22.6 33.8
229 22.2 15.8 23.6



#82
Chrysene
Concen: 3.555 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF104542.D
Acq: 16 Apr 2018 19:34

Tgt Ion:228 Resp: 63729
Ion Ratio Lower Upper
228 100
226 31.2 25.0 37.6
229 23.0 16.2 24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 2.392 ng

RT: 16.90 min Scan# 2518

Delta R.T. -0.02 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

Instrument :

BNA_F

ClientSampleId :

3-4-DENSE-GRADE-AGG-RCA

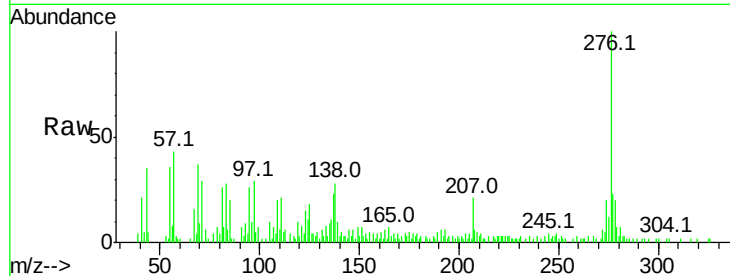
Tot Ion:276 Resp: 36430

Ion Ratio Lower Upper

276 100

138 27.1 25.0 37.6

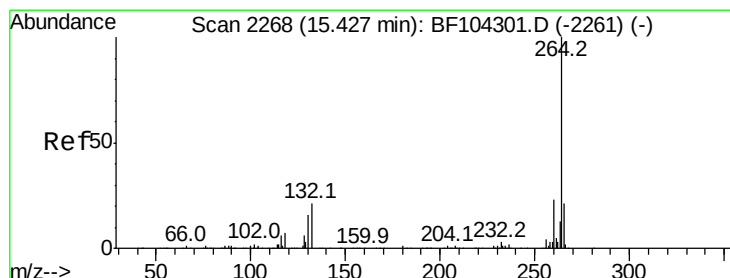
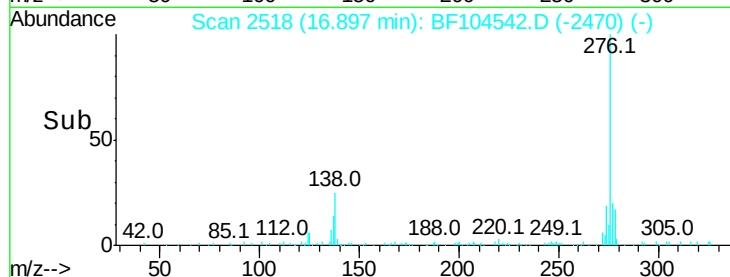
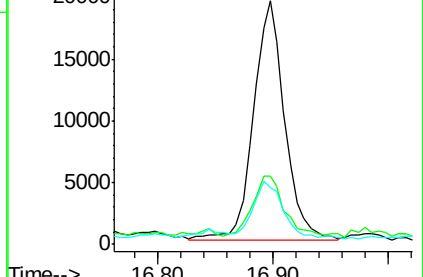
277 24.4 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2271

Delta R.T. -0.01 min

Lab File: BF104542.D

Acq: 16 Apr 2018 19:34

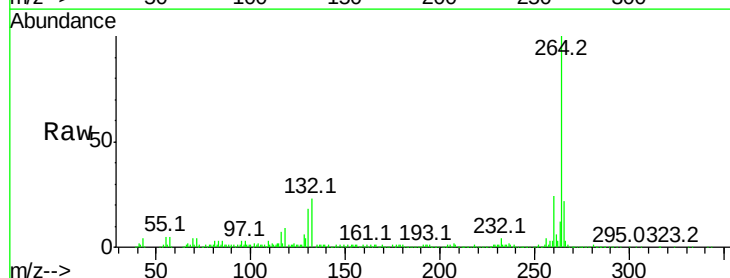
Tgt Ion:264 Resp: 300305

Ion Ratio Lower Upper

264 100

260 24.0 19.2 28.8

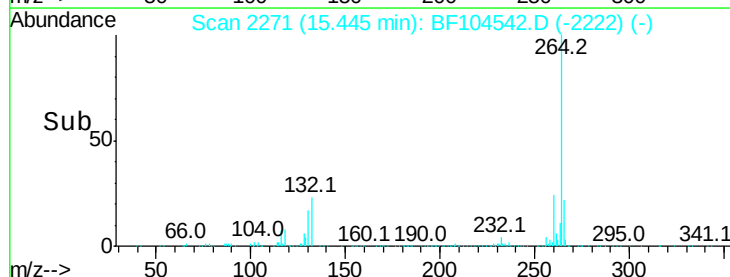
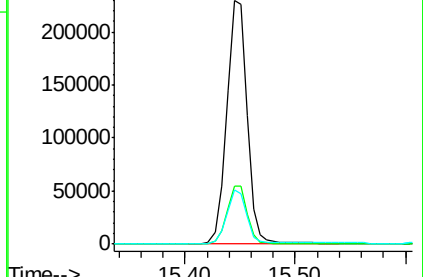
265 22.1 17.5 26.3

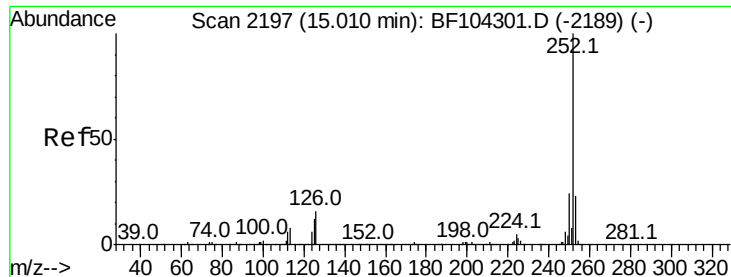


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

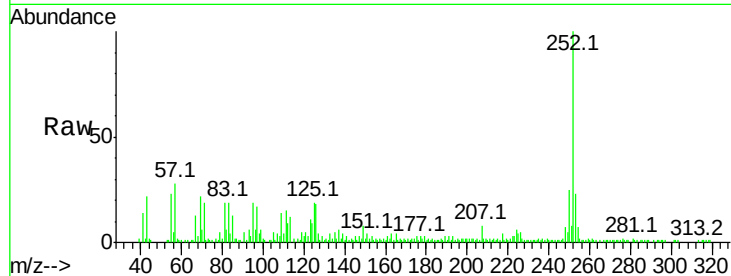




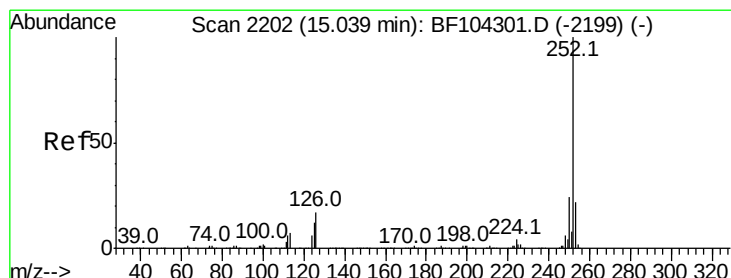
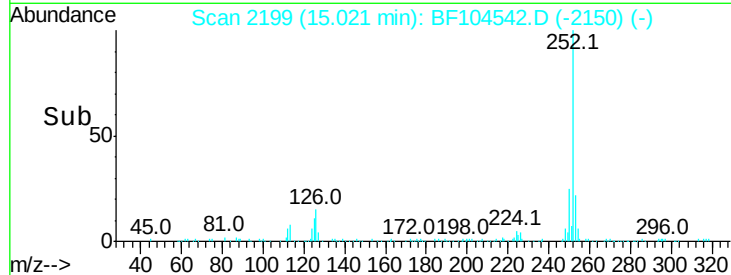
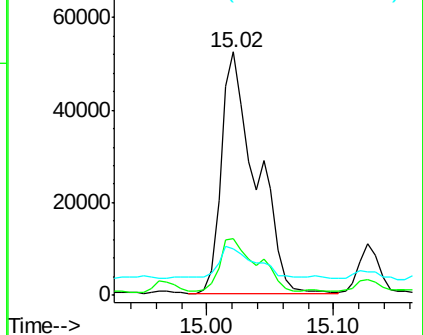
#87
Benzo(b)fluoranthene
Concen: 5.257 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.01 min
Lab File: BF104542.D
Acq: 16 Apr 2018 19:34

Instrument :
BNA_F
ClientSampleId :
3-4-DENSE-GRADE-AGG-RCA

Tot Ion:252 Resp: 99714
Ion Ratio Lower Upper
252 100
253 23.3 17.0 25.6
125 19.2 9.0 13.6#

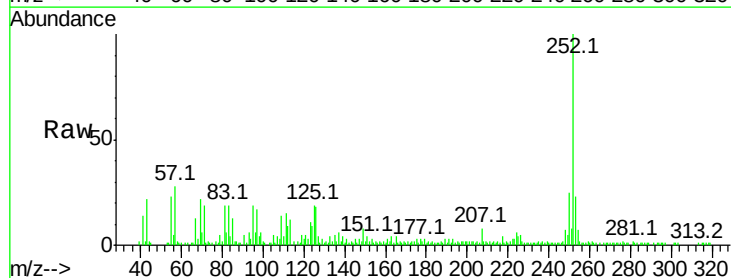


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

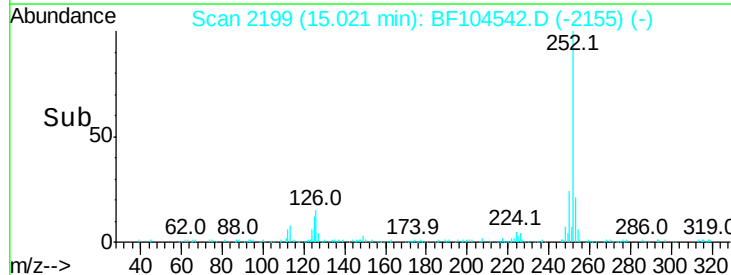
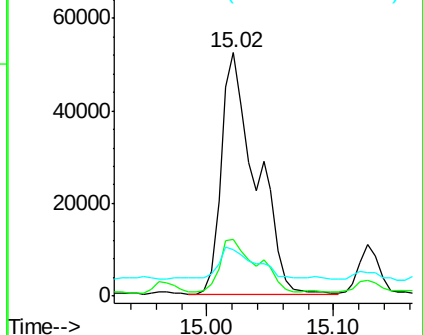


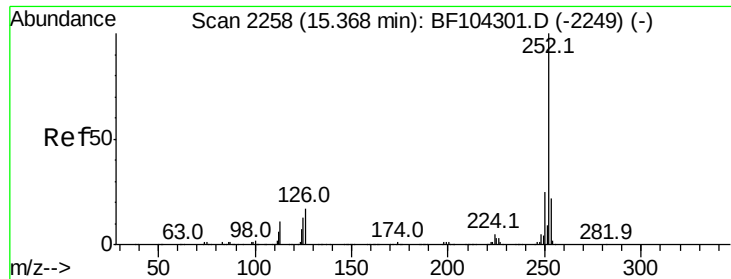
#88
Benzo(k)fluoranthene
Concen: 5.569 ng
RT: 15.02 min Scan# 2199
Delta R.T. -0.04 min
Lab File: BF104542.D
Acq: 16 Apr 2018 19:34

Tgt Ion:252 Resp: 99714
Ion Ratio Lower Upper
252 100
253 23.3 17.9 26.9
125 19.2 10.2 15.2#



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

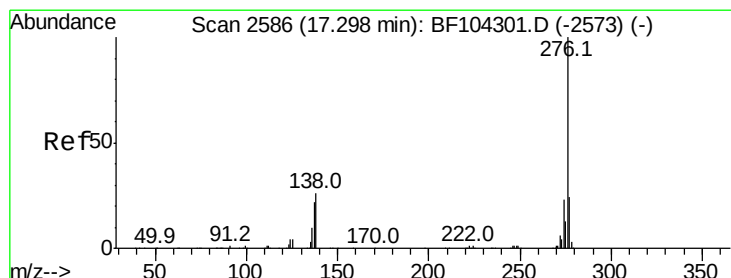
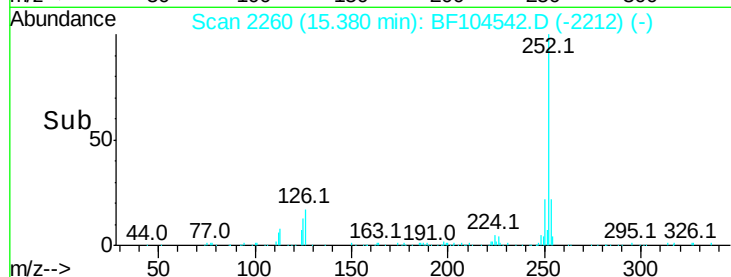
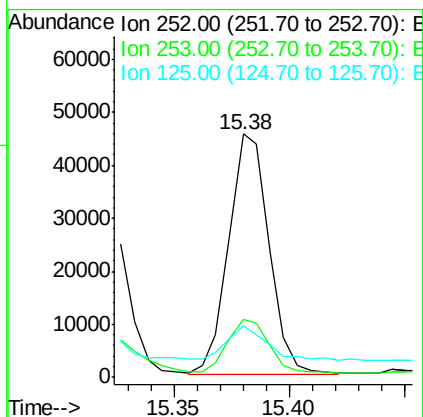
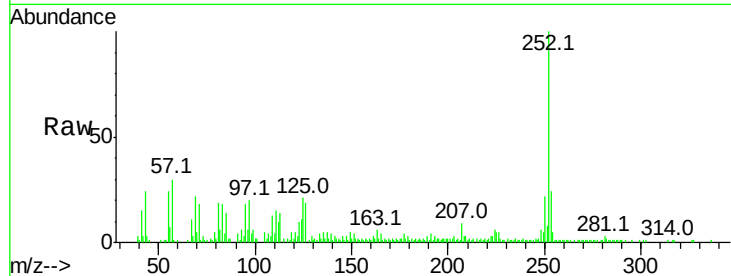




#89
 Benzo(a)pyrene
 Concen: 3.247 ng
 RT: 15.38 min Scan# 2260
 Delta R.T. -0.02 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

Instrument :
 BNA_F
 ClientSampleId :
 3-4-DENSE-GRADE-AGG-RCA

Tot Ion:252 Resp: 55103
 Ion Ratio Lower Upper
 252 100
 253 23.7 17.1 25.7
 125 21.0 9.8 14.6#



#91
 Benzo(g,h,i)perylene
 Concen: 2.472 ng
 RT: 17.34 min Scan# 2593
 Delta R.T. -0.02 min
 Lab File: BF104542.D
 Acq: 16 Apr 2018 19:34

Tgt Ion:276 Resp: 33376
 Ion Ratio Lower Upper
 276 100
 277 27.9 17.9 26.9#
 138 30.5 21.8 32.8

