

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061119\
 Data File : BF114947.D
 Acq On : 11 Jun 2019 15:38
 Operator : HP/JU
 Sample : 3158-01 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-060619

Quant Time: Jun 11 16:24:45 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 10 16:44:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	234540	20.00	ng	0.00
21) Naphthalene-d8	7.95	136	919756	20.00	ng	0.00
39) Acenaphthene-d10	9.69	164	456656	20.00	ng	0.00
64) Phenanthrene-d10	11.16	188	815868	20.00	ng	0.00
76) Chrysene-d12	13.79	240	603623	20.00	ng	0.00
87) Perylene-d12	15.19	264	412046	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	638028	46.04	ng	0.00
7) Phenol-d6	6.30	99	801957	47.98	ng	0.00
23) Nitrobenzene-d5	7.22	82	458832	30.65	ng	0.00
42) 2,4,6-Tribromophenol	10.47	330	208456	41.96	ng	0.00
45) 2-Fluorobiphenyl	9.02	172	965610	33.56	ng	0.00
79) Terphenyl-d14	12.74	244	962922	31.72	ng	0.00

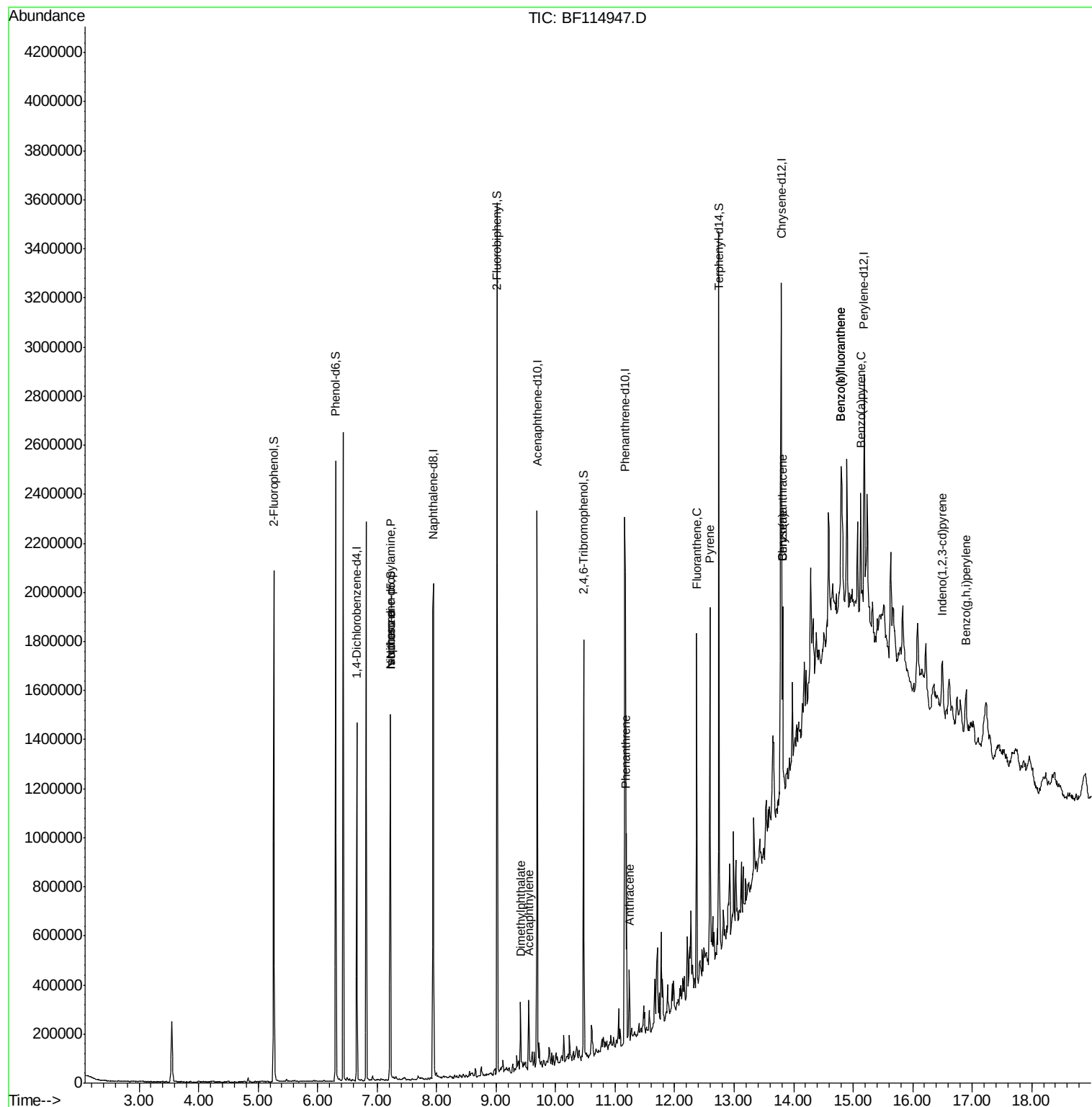
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.22	70	60420	5.780	ng	# 74
25) Isophorone	7.22	82	448171	15.289	ng	# 62
49) Acenaphthylene	9.55	152	121097	2.849	ng	96
50) Dimethylphthalate	9.41	163	90792	2.645	ng	99
71) Phenanthrene	11.19	178	297240	7.509	ng	97
72) Anthracene	11.24	178	98736	2.458	ng	96
75) Fluoranthene	12.37	202	540979	13.213	ng	96
78) Pyrene	12.60	202	584241	11.114	ng	95
81) Benzo(a)anthracene	13.82	228	293643	6.579	ng	97
83) Chrysene	13.82	228	293643	6.552	ng	96
86) Indeno(1,2,3-cd)pyrene	16.50	276	121216	2.877	ng	96
88) Benzo(b)fluoranthene	14.80	252	390462	14.556	ng	# 91
89) Benzo(k)fluoranthene	14.80	252	390462	16.772	ng	# 90
90) Benzo(a)pyrene	15.13	252	205418	8.816	ng	# 91
92) Benzo(a,h,i)perylene	16.89	276	124975	6.370	ng	92

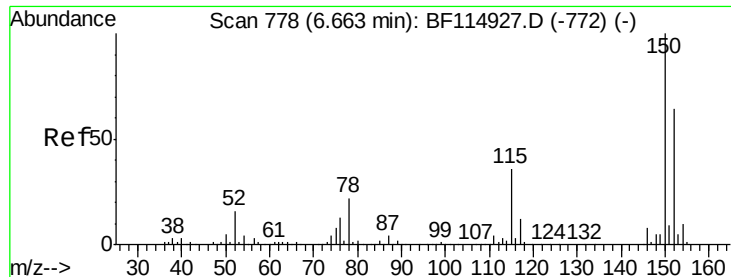
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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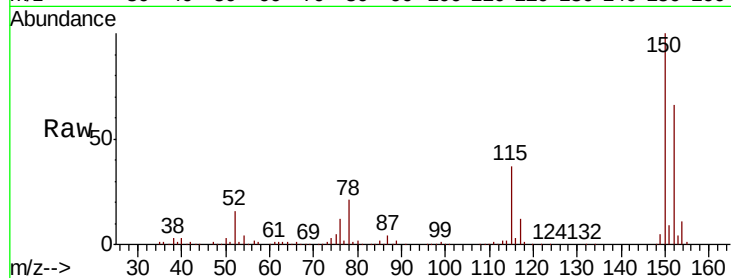


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.66 min Scan# 778
Delta R.T. -0.00 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Instrument :
BNA_F
ClientSampleId :
OK-03-060619

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.0	125.2	187.8
115	55.6	45.0	67.4

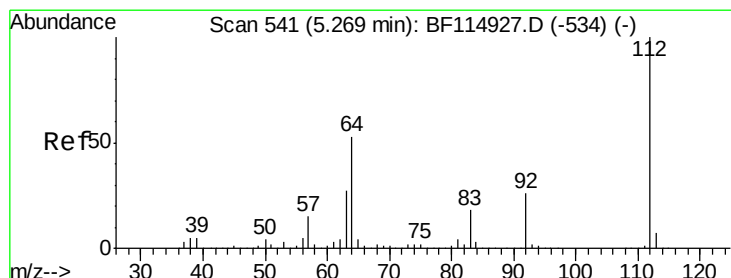
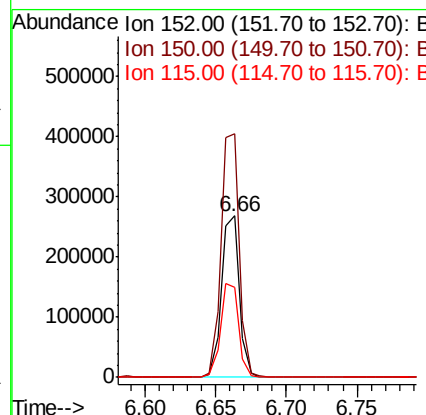
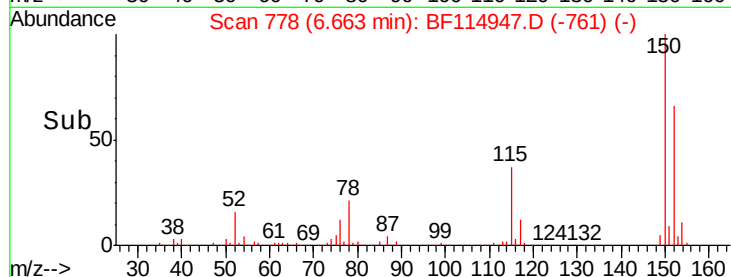


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

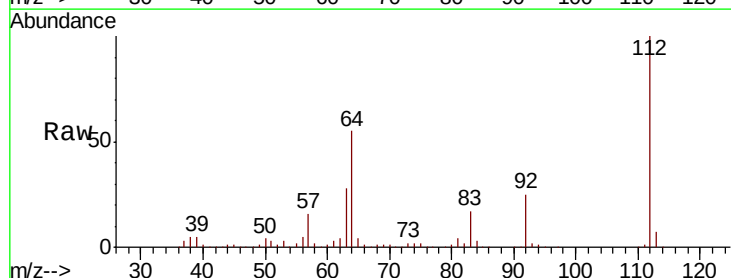
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 46.039 ng
RT: 5.26 min Scan# 540
Delta R.T. -0.01 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.7	42.1	63.1
63	27.6	21.8	32.8

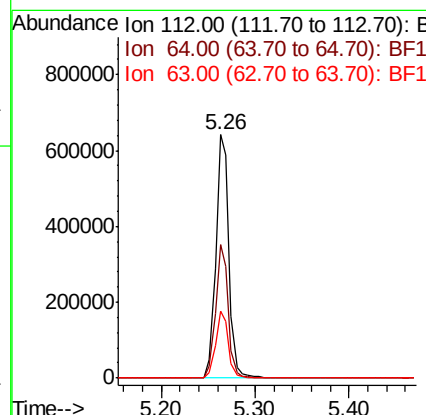
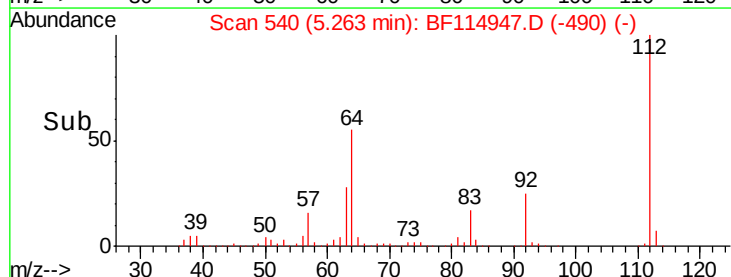


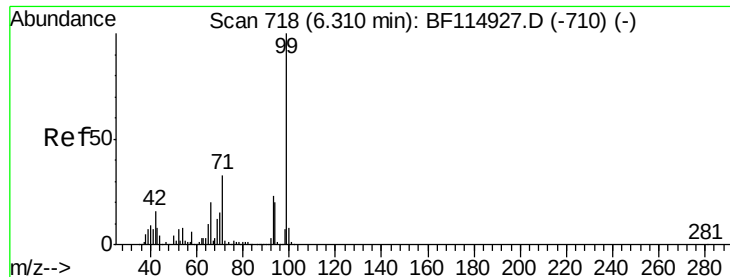
Abundance

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: 47.976 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.01 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

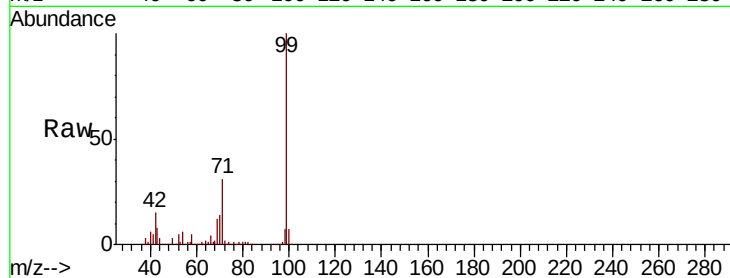
Tot Ion: 99 Resp: 801957

Ion Ratio Lower Upper

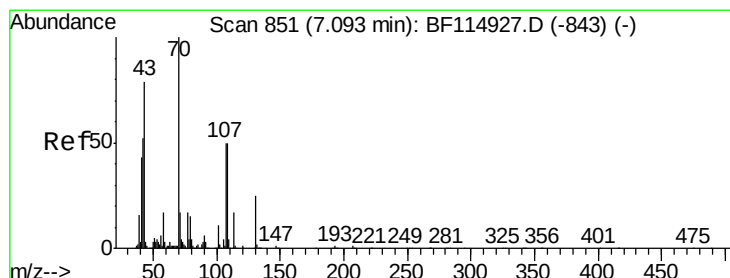
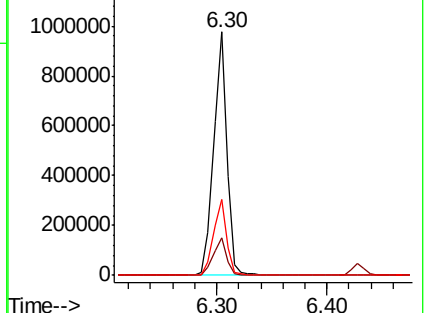
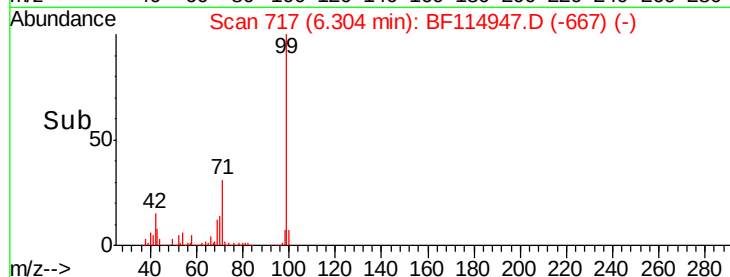
99 100

42 15.4 13.1 19.7

71 31.3 26.8 40.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 5.780 ng

RT: 7.22 min Scan# 873

Delta R.T. 0.13 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Tgt Ion: 70 Resp: 60420

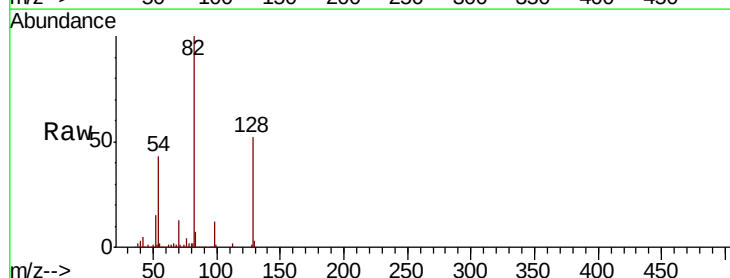
Ion Ratio Lower Upper

70 100

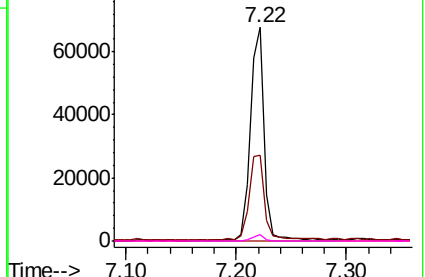
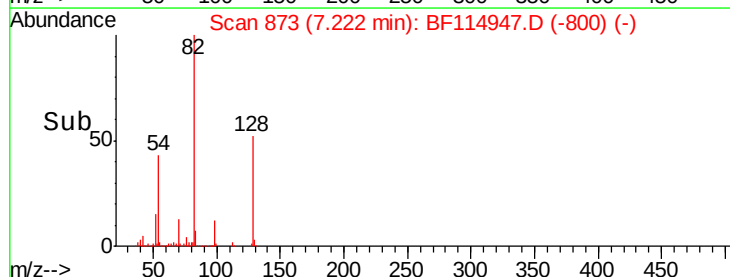
42 40.3 41.7 62.5#

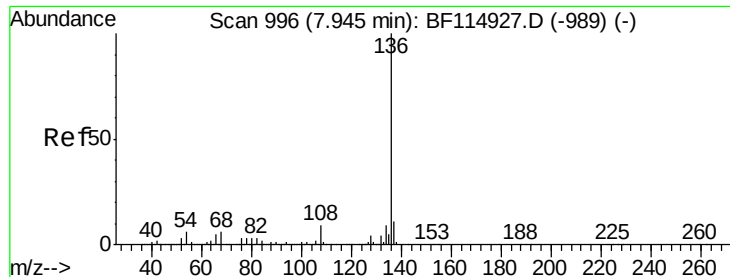
101 0.0 8.4 12.6#

130 3.0 19.9 29.9#



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

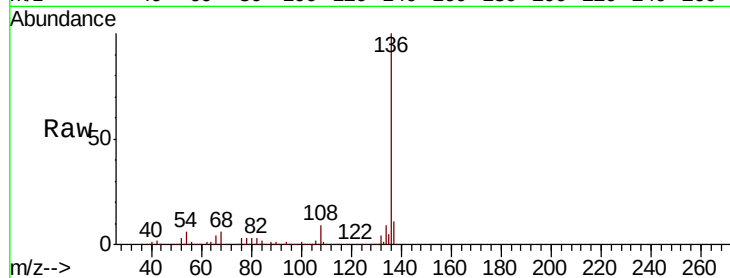




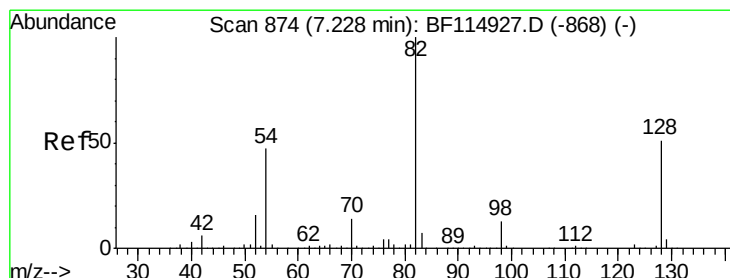
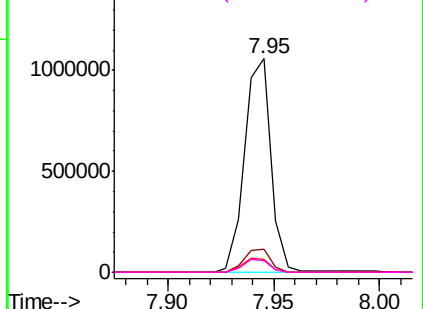
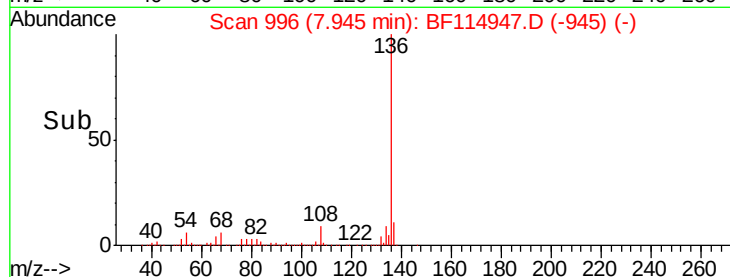
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.95 min Scan# 996
Delta R.T. -0.00 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Instrument :
BNA_F
ClientSampleId :
OK-03-060619

Tot Ion:136	Resp:	919756
Ion	Ratio	Lower Upper
136	100	
137	11.1	9.0 13.6
54	5.8	5.2 7.8
68	5.6	4.6 7.0

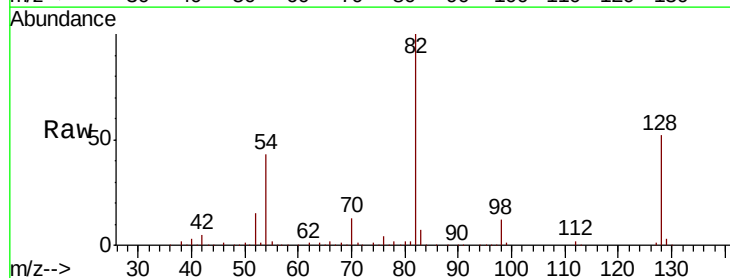


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

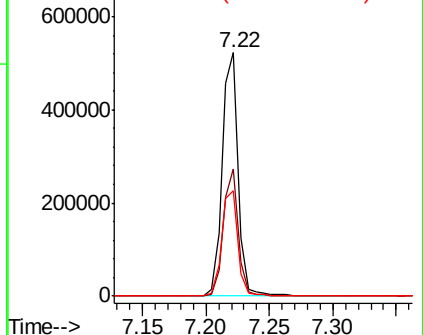
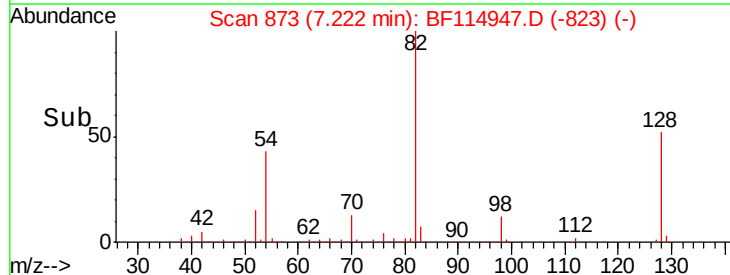


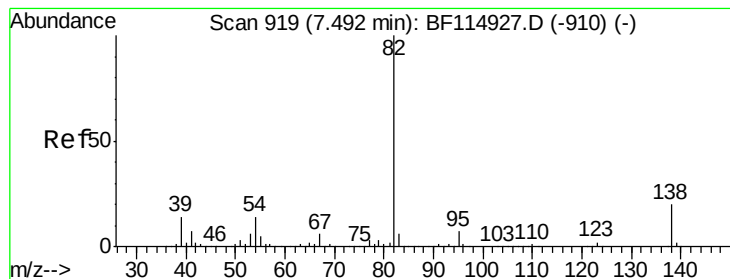
#23
Nitrobenzene-d5
Concen: 30.651 ng
RT: 7.22 min Scan# 873
Delta R.T. -0.01 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Tgt Ion: 82	Resp:	458832
Ion	Ratio	Lower Upper
82	100	
128	52.1	40.9 61.3
54	43.4	37.4 56.0



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: 15.289 ng

RT: 7.22 min Scan# 873

Delta R.T. -0.27 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

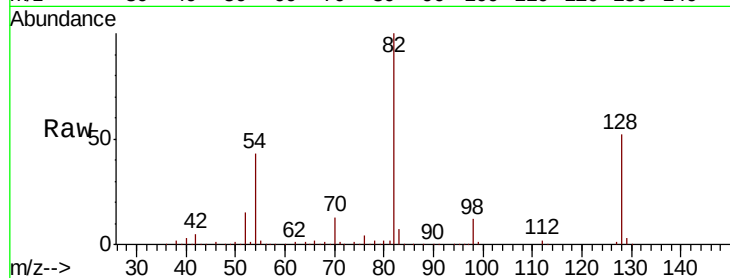
Tot Ion: 82 Resp: 448171

Ion Ratio Lower Upper

82 100

95 0.1 5.7 8.5#

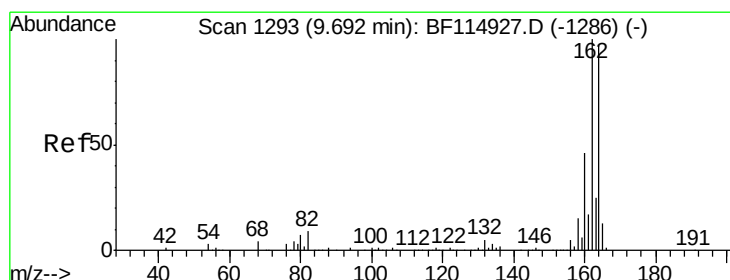
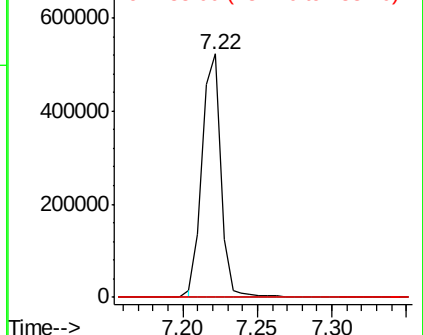
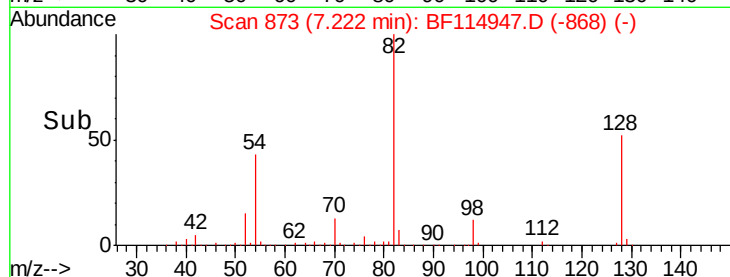
138 0.0 16.4 24.6#



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: 9.69 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

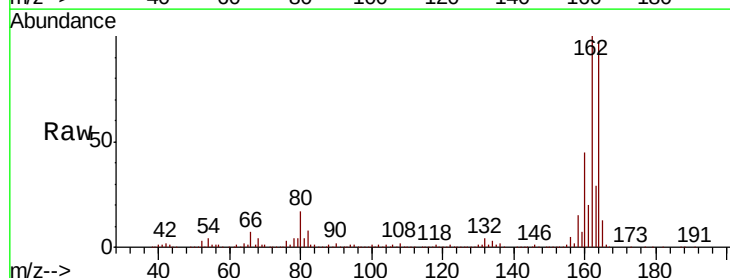
Tgt Ion: 164 Resp: 456656

Ion Ratio Lower Upper

164 100

162 102.8 82.4 123.6

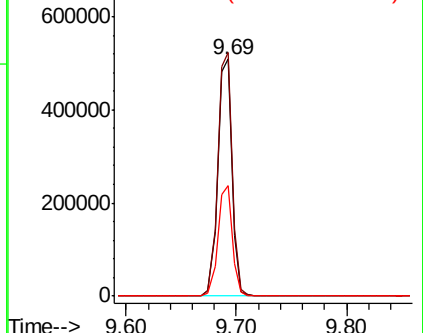
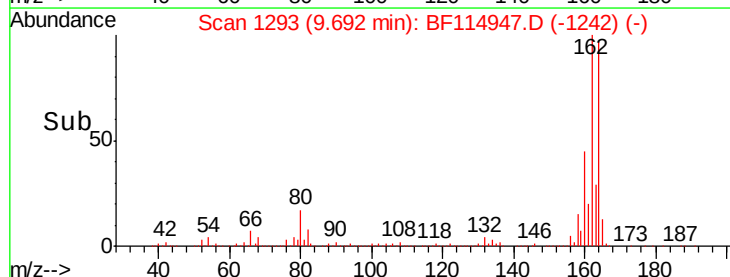
160 46.4 37.5 56.3

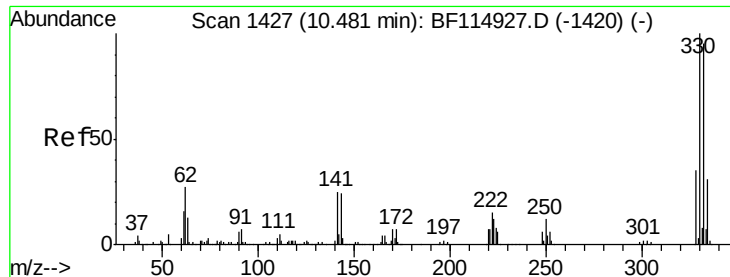


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

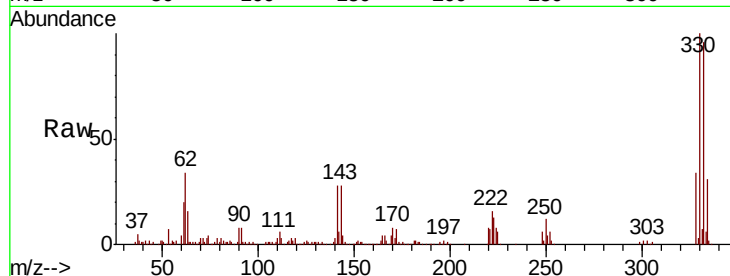




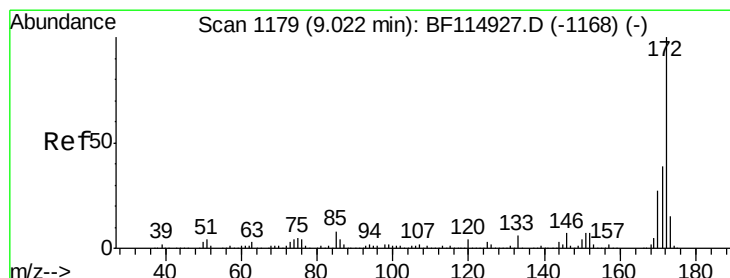
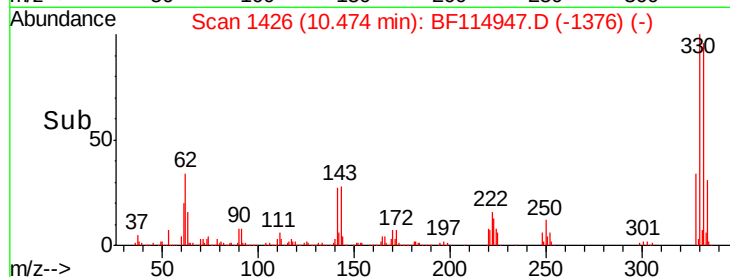
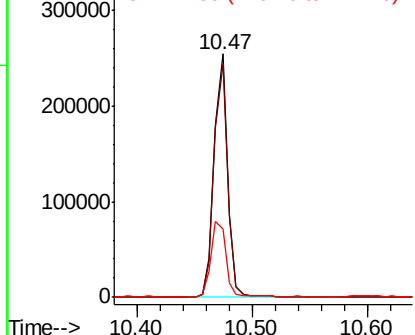
#42
 2,4,6-Tribromophenol
 Concen: 41.964 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.01 min
 Lab File: BF114947.D
 Acq: 11 Jun 2019 15:38

Instrument :
 BNA_F
 ClientSampleId :
 OK-03-060619

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.4	114.6
141	33.8	26.8	40.2

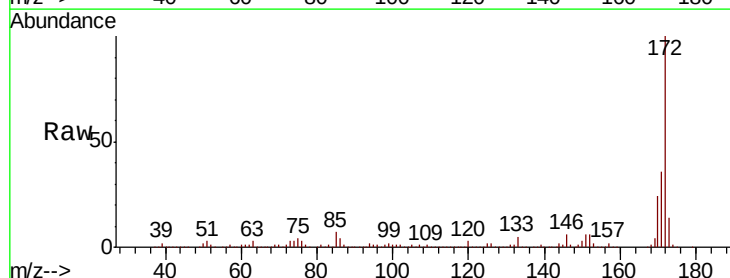


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

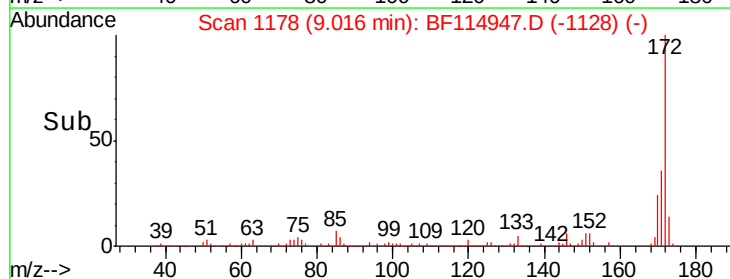
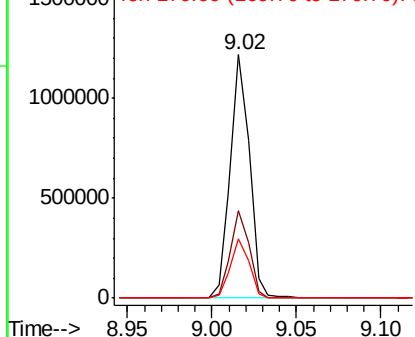


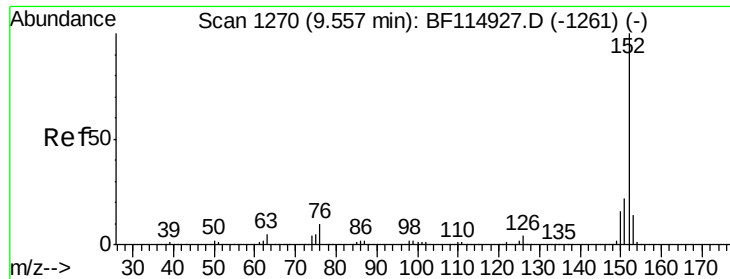
#45
 2-Fluorobiphenyl
 Concen: 33.559 ng
 RT: 9.02 min Scan# 1178
 Delta R.T. -0.01 min
 Lab File: BF114947.D
 Acq: 11 Jun 2019 15:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	31.3	46.9
170	24.4	21.4	32.0



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





#49

Acenaphthylene

Concen: 2.849 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.01 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

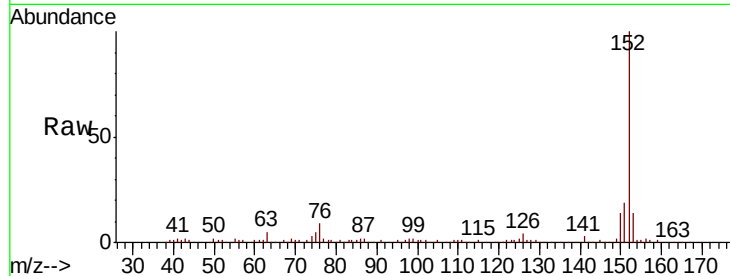
Tot Ion:152 Resp: 121097

Ion Ratio Lower Upper

152 100

151 19.3 17.6 26.4

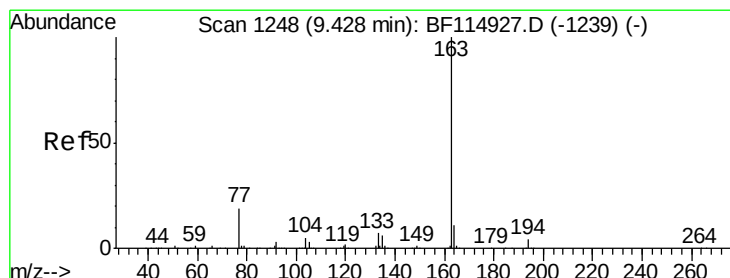
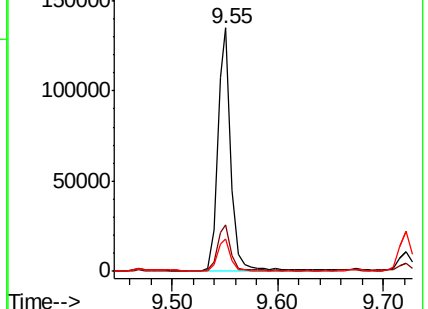
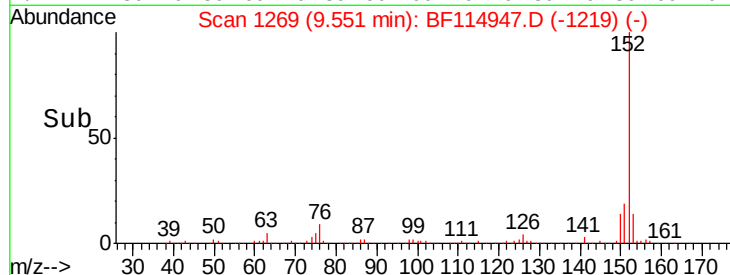
153 13.5 11.4 17.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 2.645 ng

RT: 9.41 min Scan# 1245

Delta R.T. -0.02 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

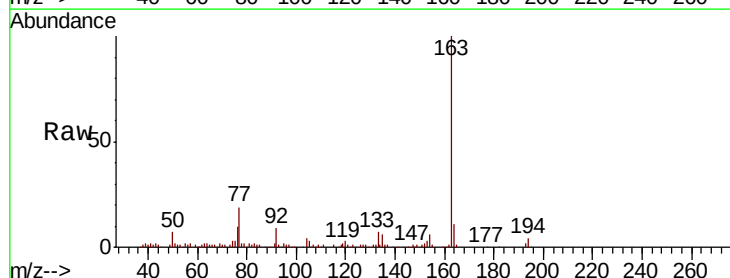
Tgt Ion:163 Resp: 90792

Ion Ratio Lower Upper

163 100

194 4.0 3.4 5.0

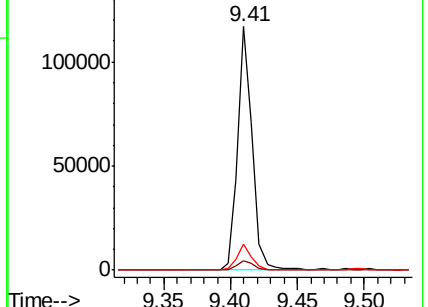
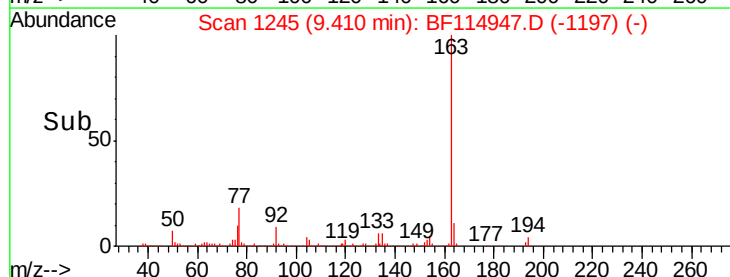
164 10.6 8.7 13.1

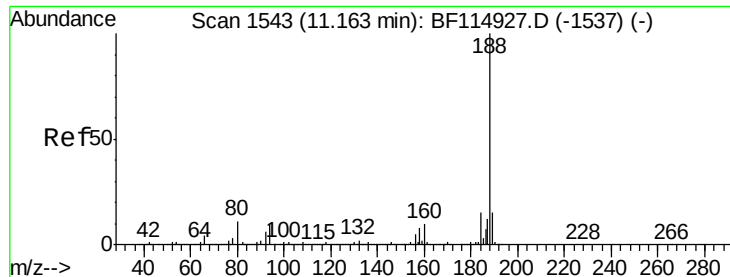


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

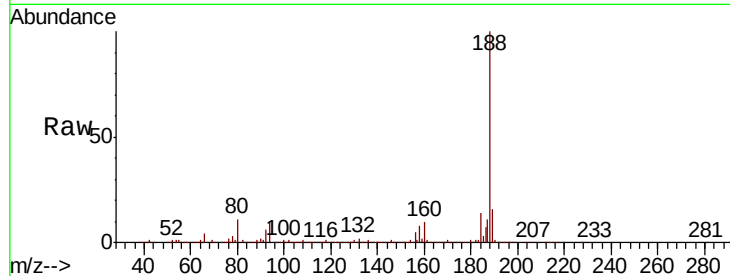




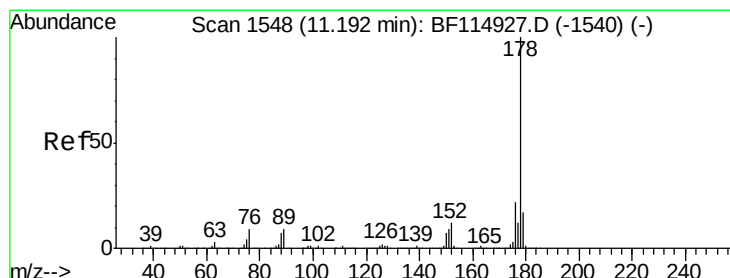
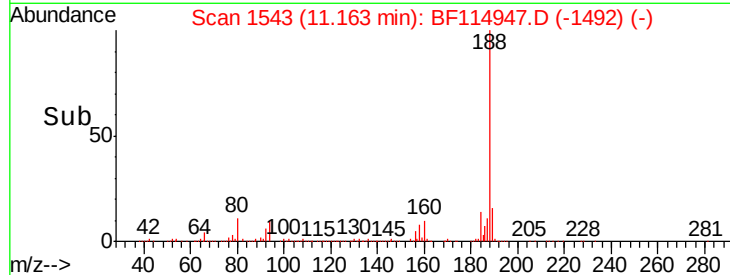
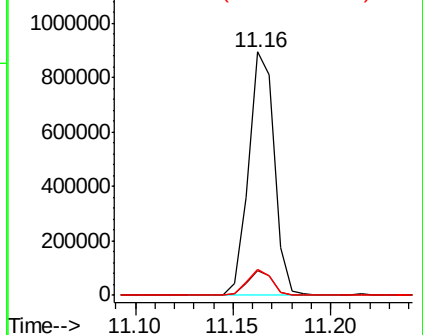
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.16 min Scan# 1543
Delta R.T. -0.00 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Instrument :
BNA_F
ClientSampleId :
OK-03-060619

Tot Ion:188 Resp: 815868
Ion Ratio Lower Upper
188 100
94 10.4 8.1 12.1
80 10.9 8.6 12.8

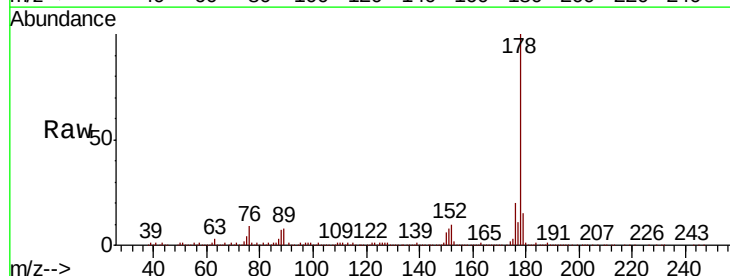


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

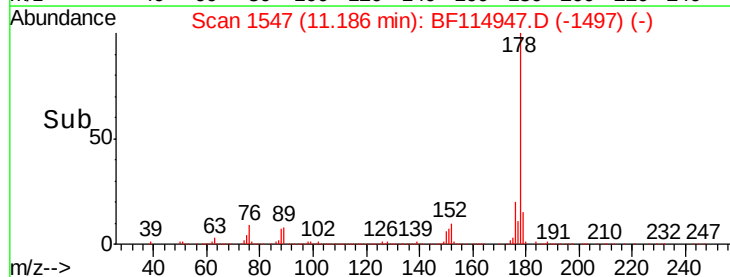
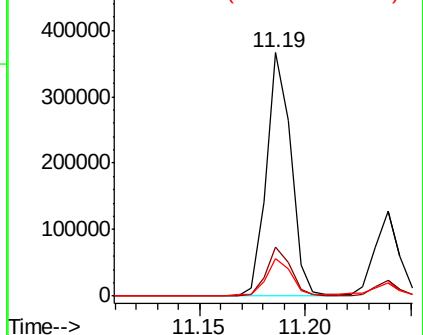


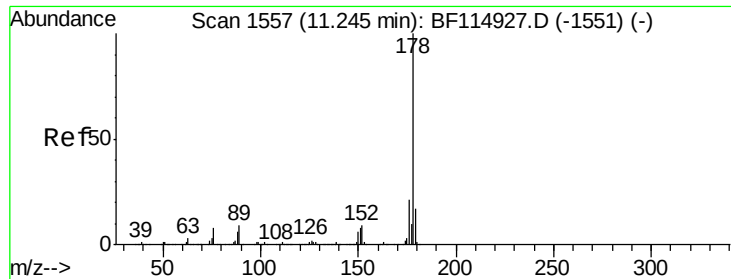
#71
Phenanthrene
Concen: 7.509 ng
RT: 11.19 min Scan# 1547
Delta R.T. -0.01 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Tgt Ion:178 Resp: 297240
Ion Ratio Lower Upper
178 100
176 20.2 17.4 26.2
179 15.5 13.6 20.4



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: 2.458 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

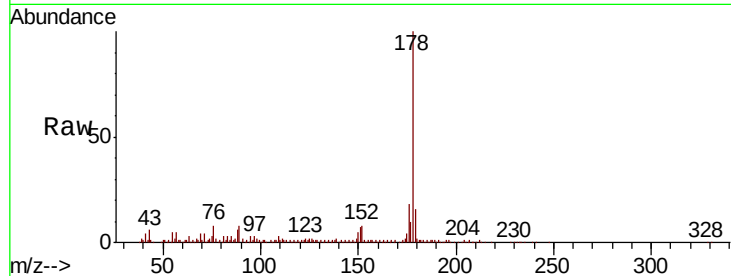
Tot Ion:178 Resp: 98736

Ion Ratio Lower Upper

178 100

176 18.3 16.6 25.0

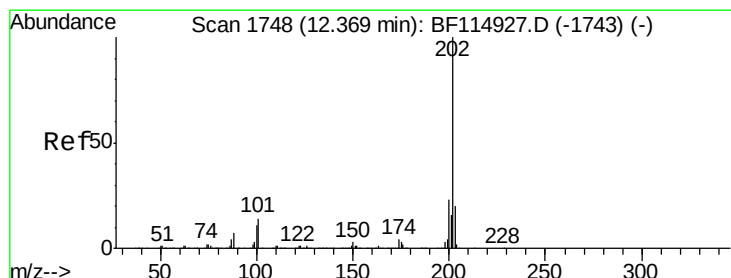
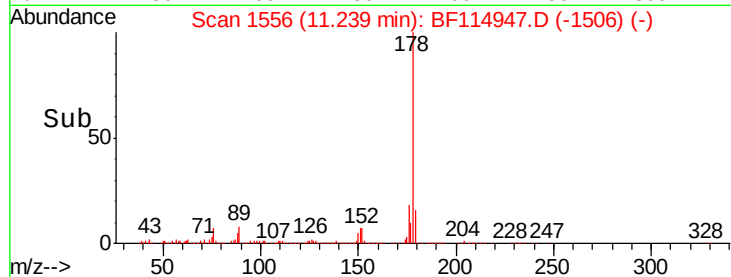
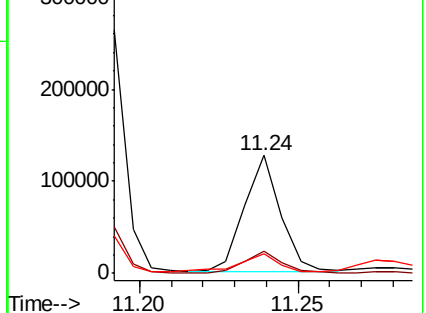
179 16.2 13.4 20.2



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: 13.213 ng

RT: 12.37 min Scan# 1748

Delta R.T. -0.00 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

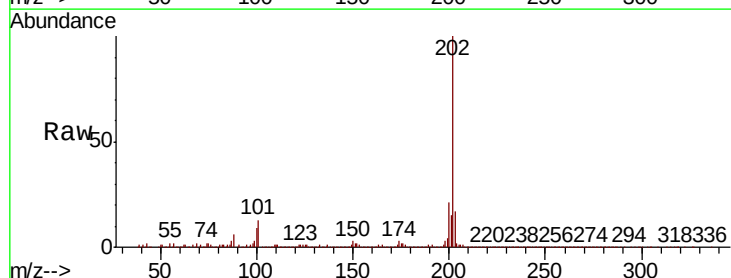
Tgt Ion:202 Resp: 540979

Ion Ratio Lower Upper

202 100

101 13.1 0.0 34.3

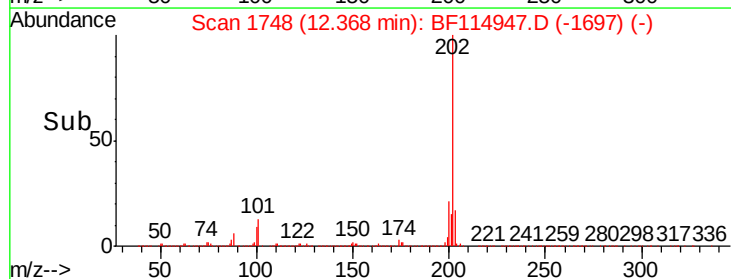
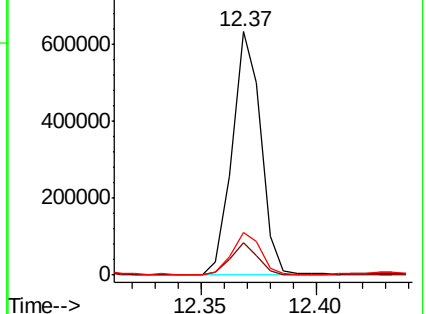
203 17.3 0.0 39.6

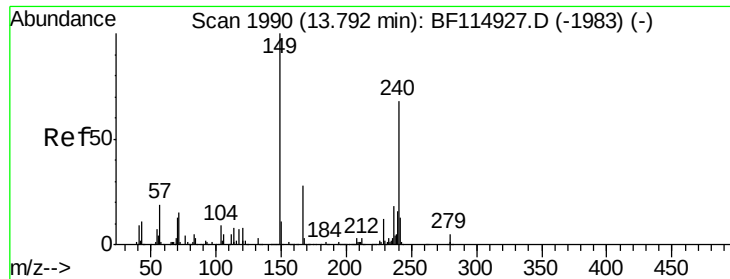


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

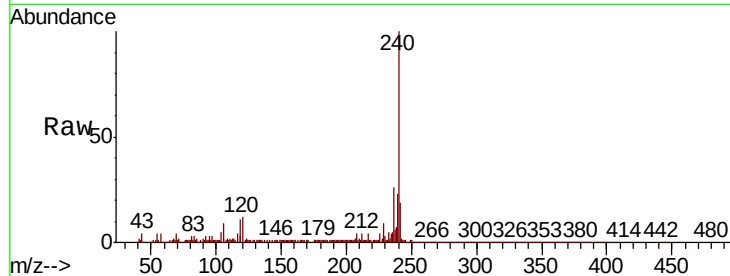




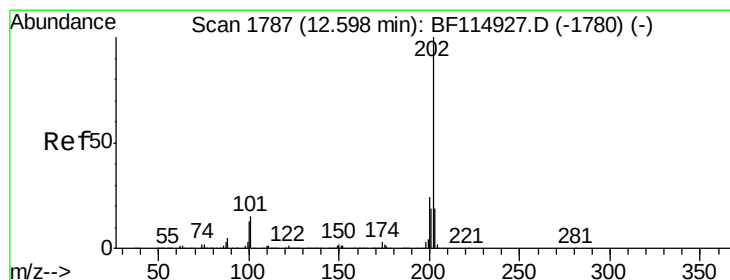
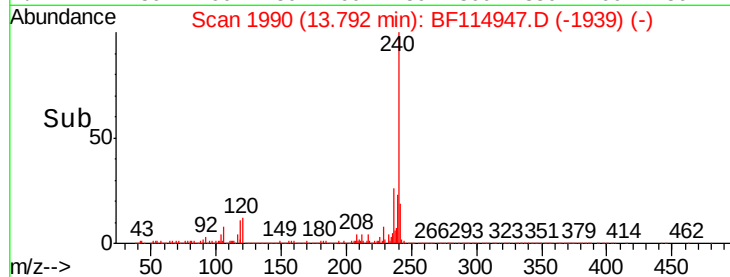
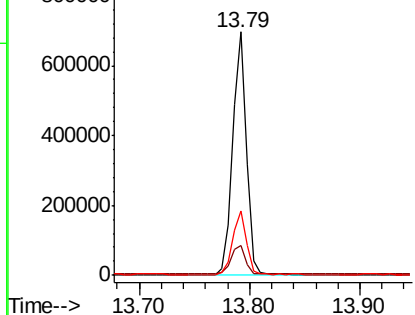
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.79 min Scan# 1990
Delta R.T. -0.00 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Instrument :
BNA_F
ClientSampleId :
OK-03-060619

Tot Ion:240 Resp: 603623
Ion Ratio Lower Upper
240 100
120 12.3 9.2 13.8
236 26.3 21.7 32.5

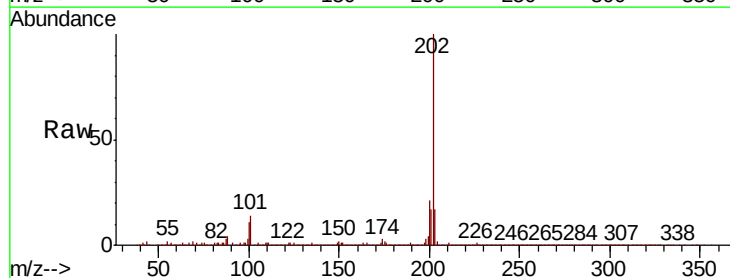


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

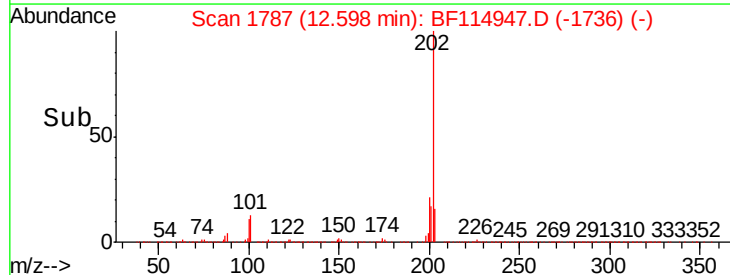
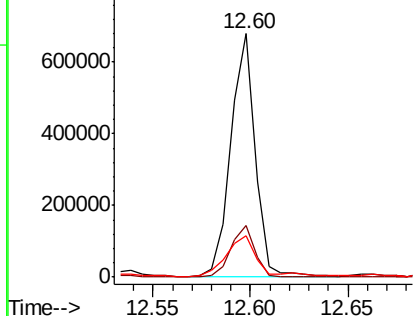


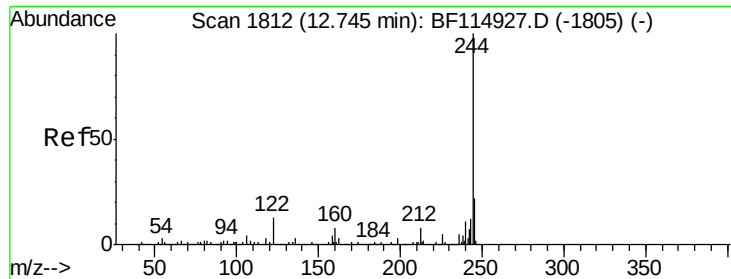
#78
Pyrene
Concen: 11.114 ng
RT: 12.60 min Scan# 1787
Delta R.T. -0.00 min
Lab File: BF114947.D
Acq: 11 Jun 2019 15:38

Tgt Ion:202 Resp: 584241
Ion Ratio Lower Upper
202 100
200 21.0 18.9 28.3
203 17.0 15.2 22.8



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

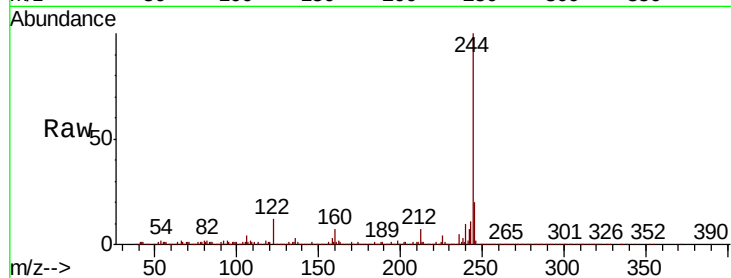




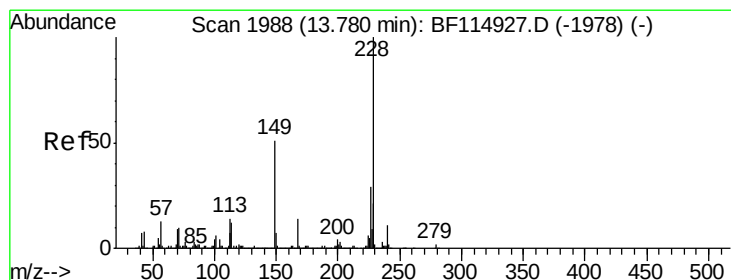
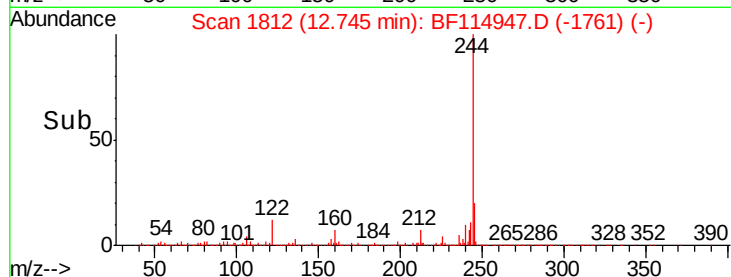
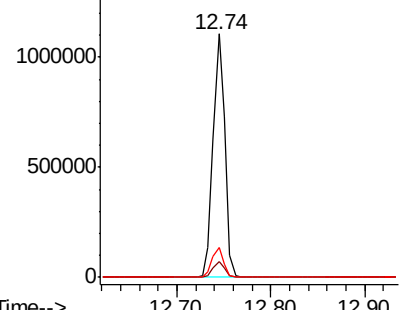
#79
 Terphenyl-d14
 Concen: 31.725 ng
 RT: 12.74 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: BF114947.D
 Acq: 11 Jun 2019 15:38

Instrument :
 BNA_F
 ClientSampled :
 OK-03-060619

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.2	9.2
122	12.4	10.2	15.4

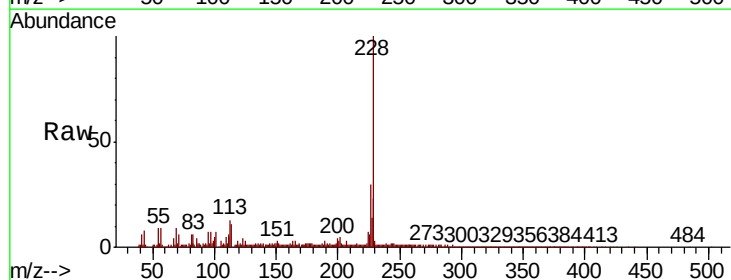


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

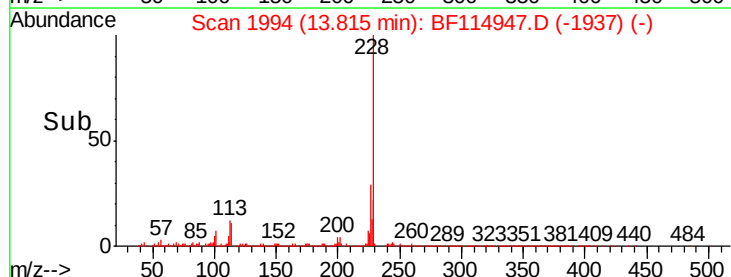
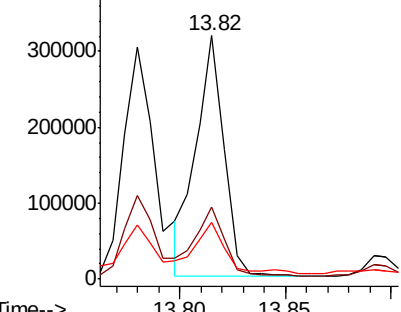


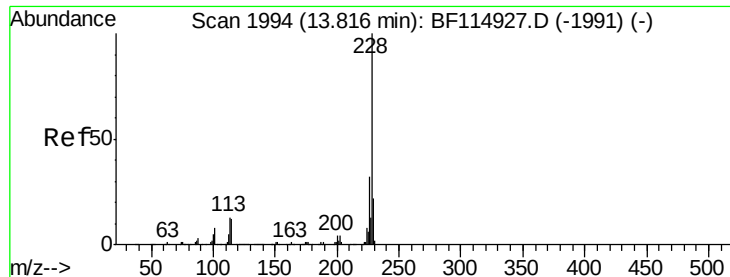
#81
 Benzo(a)anthracene
 Concen: 6.579 ng
 RT: 13.82 min Scan# 1994
 Delta R.T. 0.04 min
 Lab File: BF114947.D
 Acq: 11 Jun 2019 15:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.8	34.2
229	23.2	16.6	25.0



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: 6.552 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

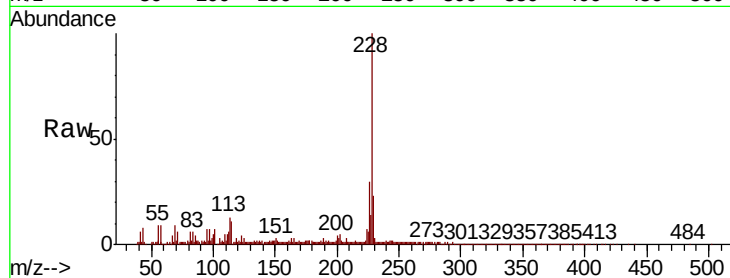
Tot Ion:228 Resp: 293643

Ion Ratio Lower Upper

228 100

226 29.6 25.8 38.8

229 23.2 17.2 25.8

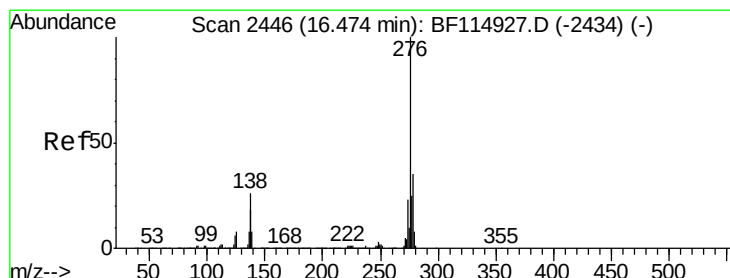
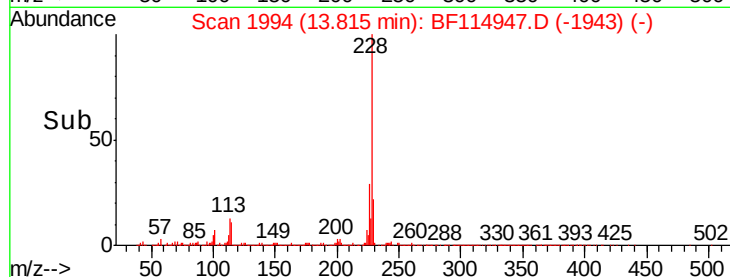
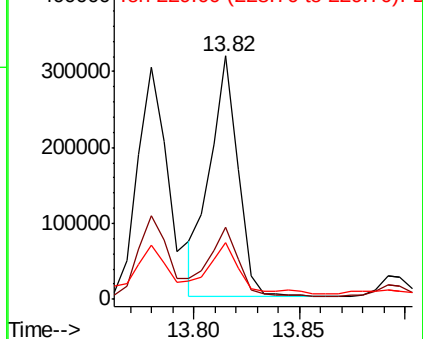


Abundance

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: 2.877 ng

RT: 16.50 min Scan# 2450

Delta R.T. 0.02 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

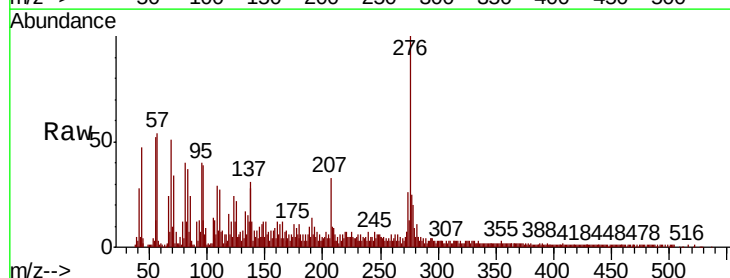
Tgt Ion:276 Resp: 121216

Ion Ratio Lower Upper

276 100

138 25.1 23.3 34.9

277 25.0 20.5 30.7

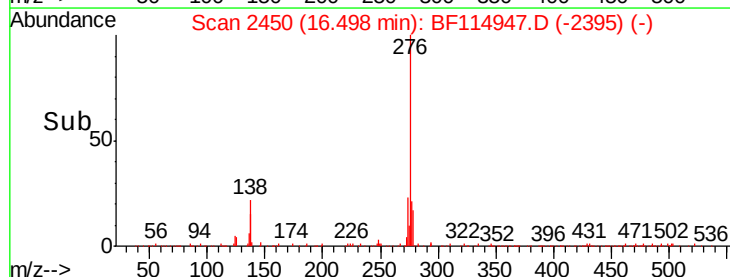
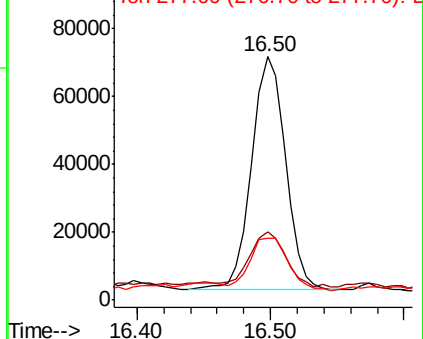


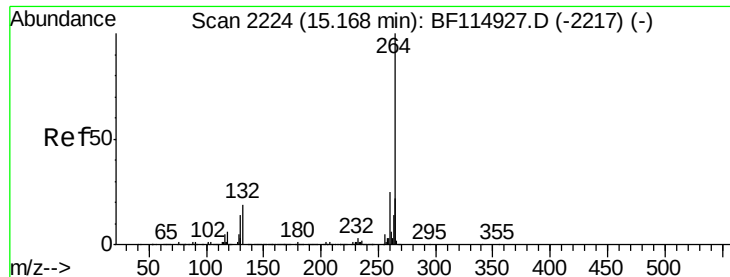
Abundance

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

Pervlene-d12

Concen: 20.000 ng

RT: 15.19 min Scan# 2227

Delta R.T. 0.02 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

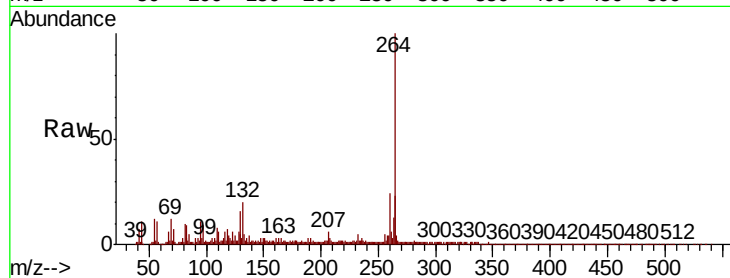
Tot Ion:264 Resp: 412046

Ion Ratio Lower Upper

264 100

260 24.2 19.7 29.5

265 22.6 17.5 26.3

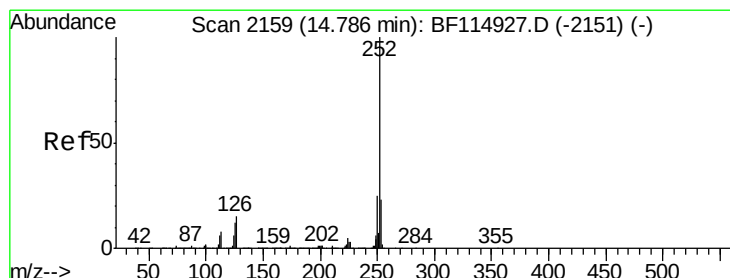
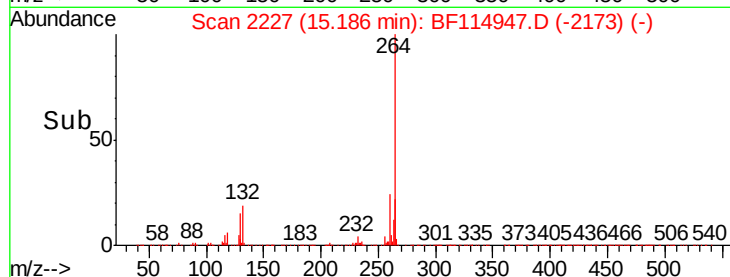
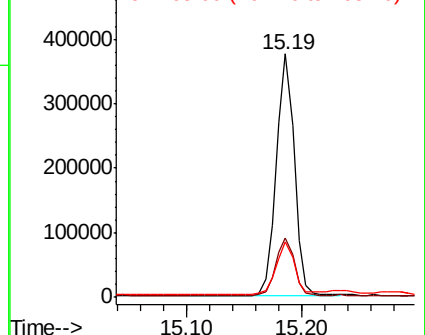


Abundance

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



#88

Benzo(b)fluoranthene

Concen: 14.556 ng

RT: 14.80 min Scan# 2161

Delta R.T. 0.01 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

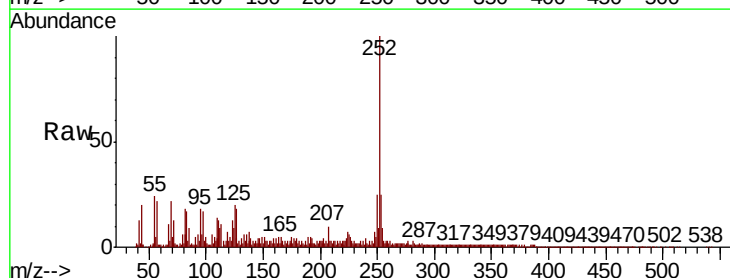
Tgt Ion:252 Resp: 390462

Ion Ratio Lower Upper

252 100

253 25.2 18.6 28.0

125 19.7 9.5 14.3#

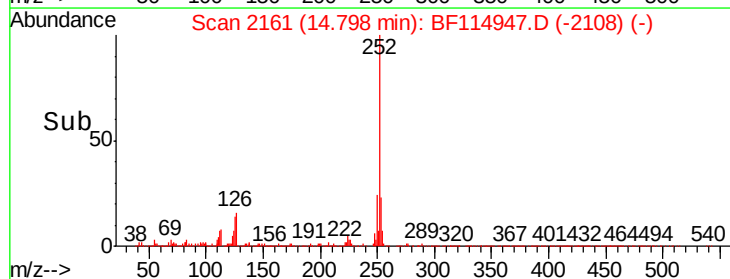
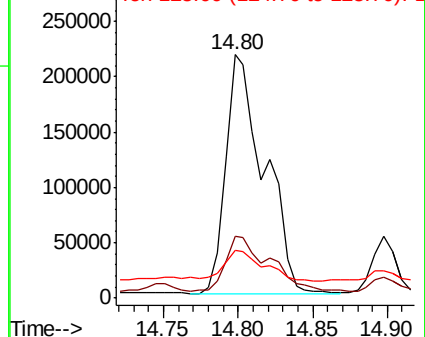


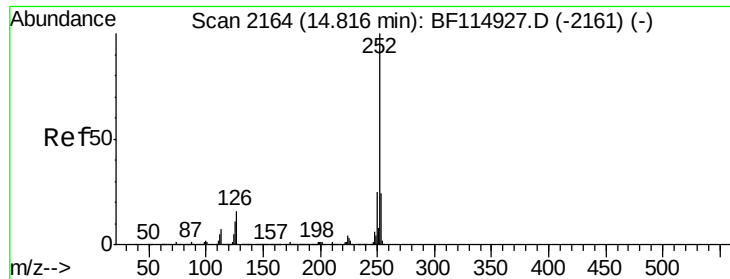
Abundance

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: 16.772 ng

RT: 14.80 min Scan# 2161

Delta R.T. -0.02 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

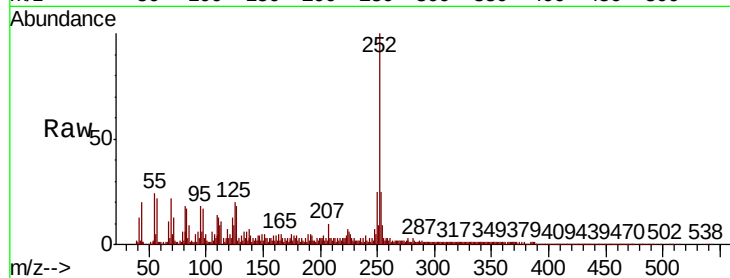
Tot Ion:252 Resp: 390462

Ion Ratio Lower Upper

252 100

253 25.2 18.6 28.0

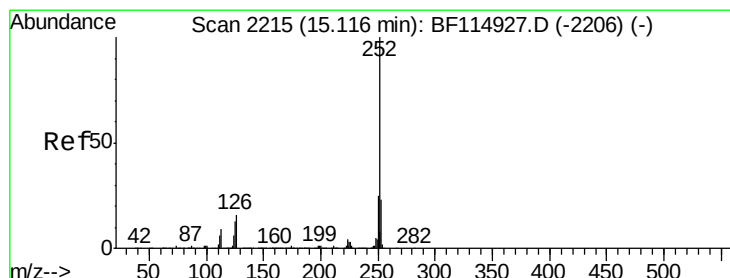
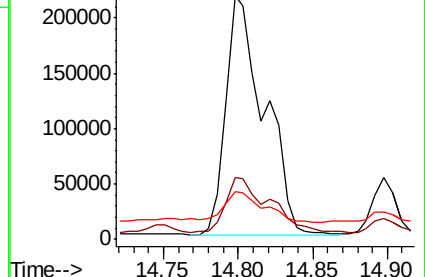
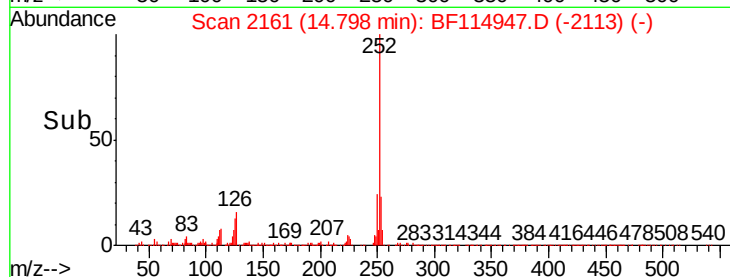
125 19.7 9.2 13.8#



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: 8.816 ng

RT: 15.13 min Scan# 2217

Delta R.T. 0.01 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

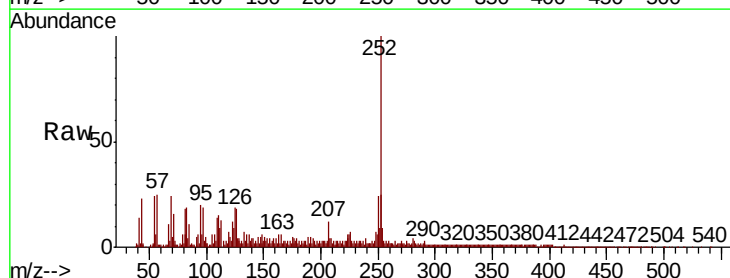
Tgt Ion:252 Resp: 205418

Ion Ratio Lower Upper

252 100

253 24.7 18.2 27.2

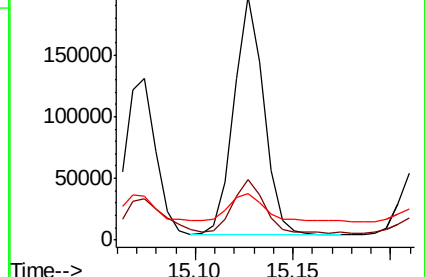
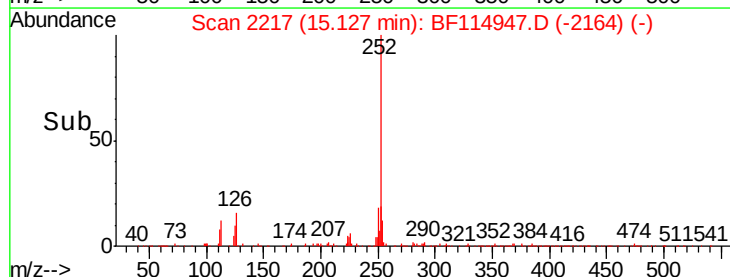
125 19.1 10.1 15.1#

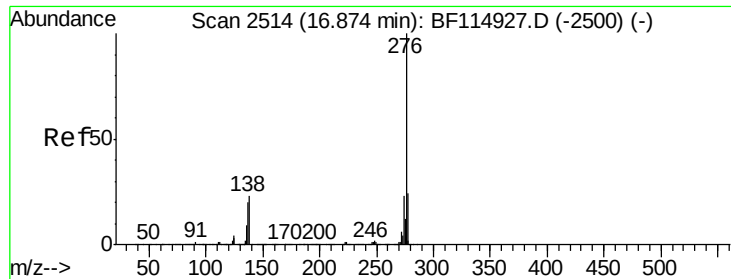


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 6.370 ng

RT: 16.89 min Scan# 2517

Delta R.T. 0.02 min

Lab File: BF114947.D

Acq: 11 Jun 2019 15:38

Instrument :

BNA_F

ClientSampleId :

OK-03-060619

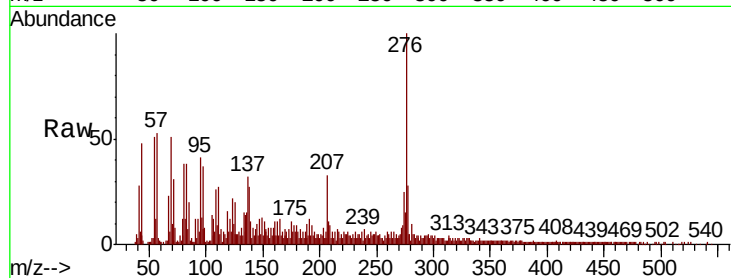
Tot Ion: 276 Resp: 124975

Ion Ratio Lower Upper

276 100

277 27.6 19.0 28.6

138 27.5 18.7 28.1



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

