

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
 Data File : BF114182.D
 Acq On : 12 May 2019 4:23
 Operator : JU/SJ
 Sample : K2767-21 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0206-01

Quant Time: May 12 06:00:33 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	258547	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	961519	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	420657	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	731039	20.00	ng	0.00
76) Chrysene-d12	14.01	240	575779	20.00	ng	-0.01
87) Perylene-d12	15.48	264	628428	20.00	ng	-0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	332105	20.67	ng	0.00
7) Phenol-d6	6.49	99	460825	24.25	ng	0.00
23) Nitrobenzene-d5	7.40	82	262824	15.34	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	84106	19.34	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	429279	15.44	ng	0.00
79) Terphenyl-d14	12.94	244	318664	11.41	ng	-0.01

Target Compounds

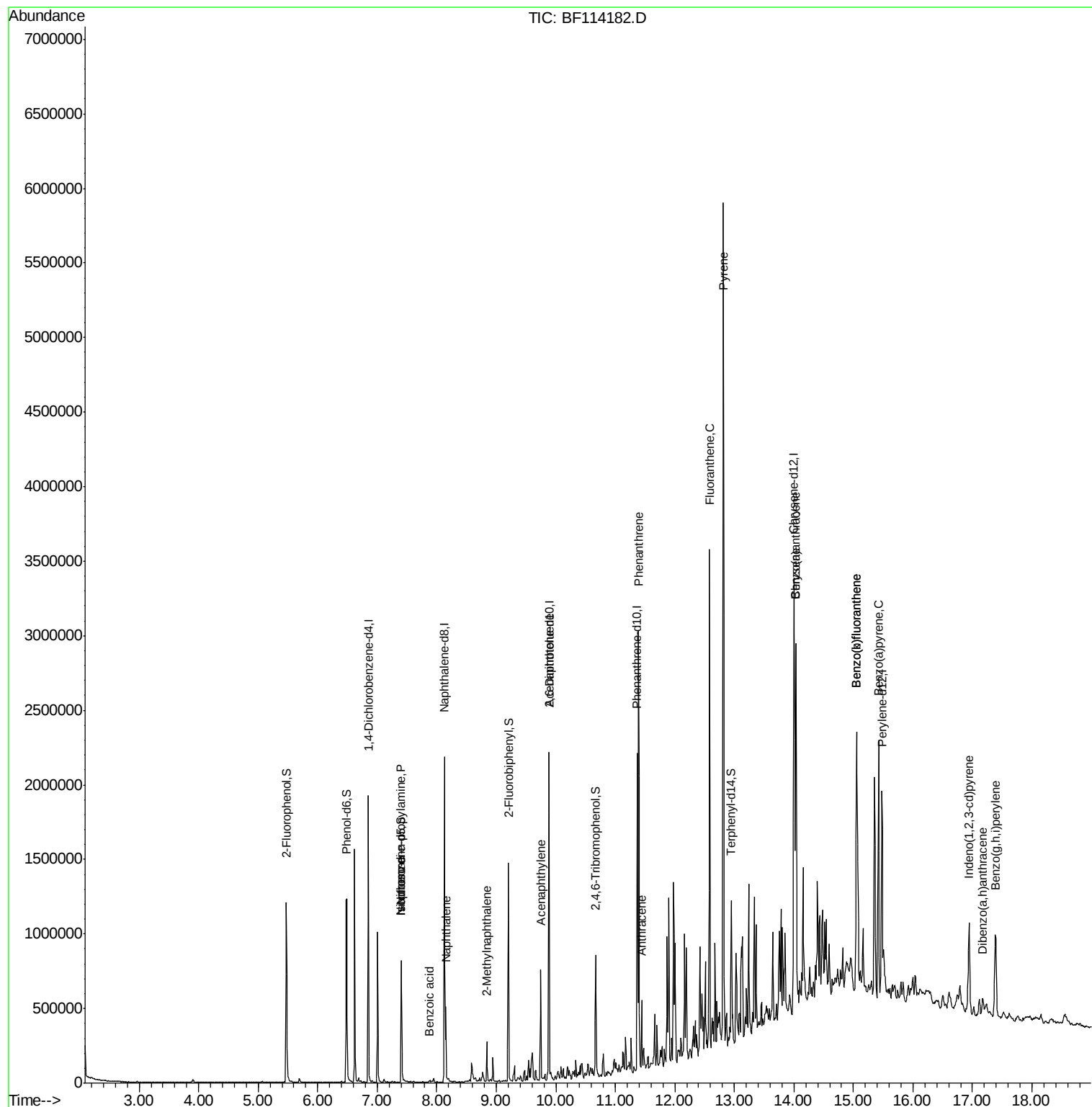
						Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	33904	2.815	ng	# 74
25) Isophorone	7.40	82	260259	8.191	ng	# 64
31) Naphthalene	8.15	128	190593	4.244	ng	98
32) Benzoic acid	7.87	122	1264	7.134	ng	# 76
37) 2-Methylnaphthalene	8.85	142	72477	2.501	ng	97
49) Acenaphthylene	9.75	152	285211	6.857	ng	98
51) 2,6-Dinitrotoluene	9.89	165	57186	8.349	ng	# 22
71) Phenanthrene	11.39	178	998624	28.078	ng	98
72) Anthracene	11.45	178	169910	4.756	ng	97
75) Fluoranthene	12.59	202	1296399	33.849	ng	99
78) Pyrene	12.82	202	2267114	48.946	ng	99
81) Benzo(a)anthracene	14.03	228	1000108	26.855	ng	97
83) Chrysene	14.03	228	1000108	27.395	ng	99
86) Indeno(1,2,3-cd)pyrene	16.94	276	399352	12.378	ng	97
88) Benzo(b)fluoranthene	15.06	252	1318846	32.758	ng	# 98
89) Benzo(k)fluoranthene	15.06	252	1318846	35.660	ng	# 98
90) Benzo(a)pyrene	15.42	252	678192	19.140	ng	99
91) Dibenzo(a,h)anthracene	17.17	278	85751	2.912	ng	99
92) Benzo(g,h,i)perylene	17.39	276	450630	15.272	ng	98

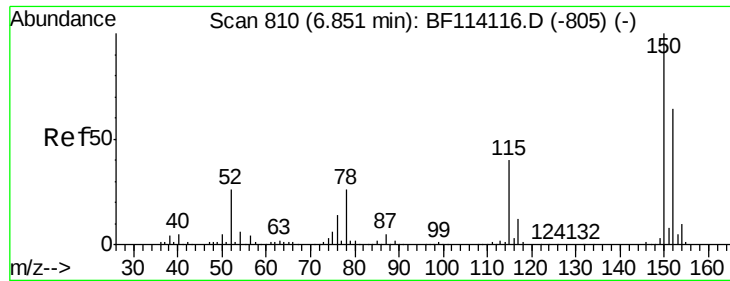
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 10 15:56:46 2019
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.85 min Scan# 810

Delta R.T. -0.00 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

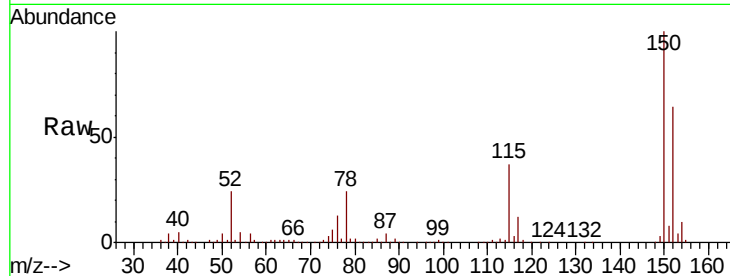
Tgt Ion:152 Resp: 258547

Ion Ratio Lower Upper

152 100

150 155.2 124.3 186.5

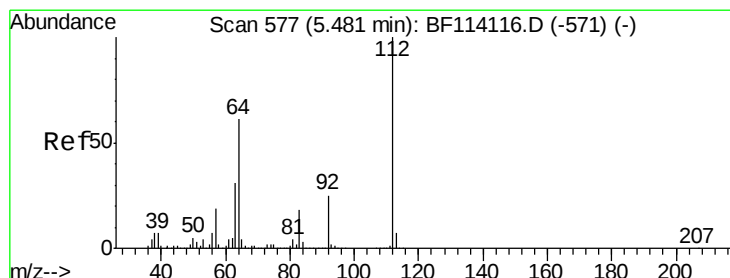
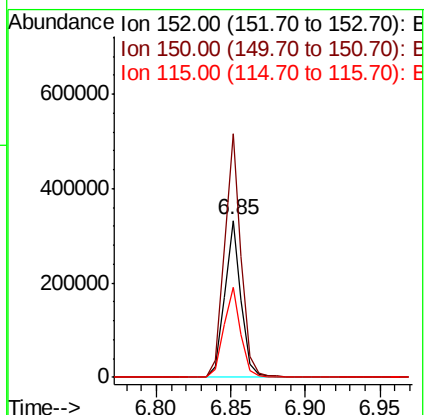
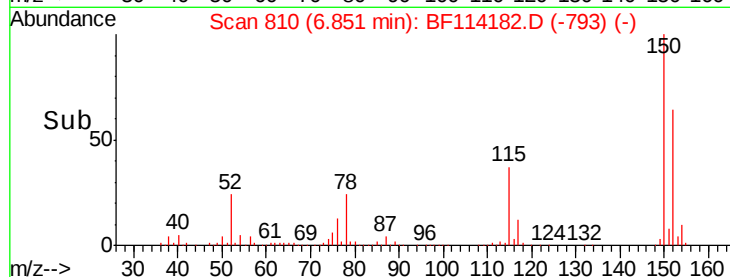
115 57.4 49.1 73.7



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: 20.671 ng

RT: 5.47 min Scan# 576

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

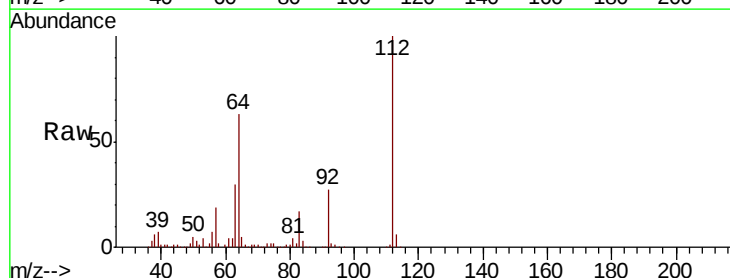
Tgt Ion:112 Resp: 332105

Ion Ratio Lower Upper

112 100

64 62.7 49.0 73.6

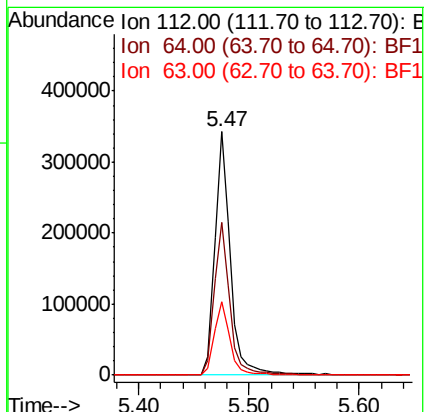
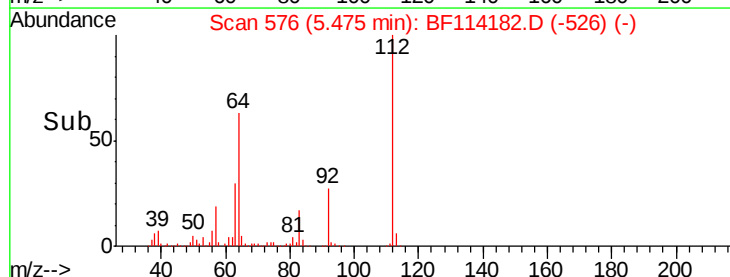
63 30.3 24.6 37.0



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: 24.251 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

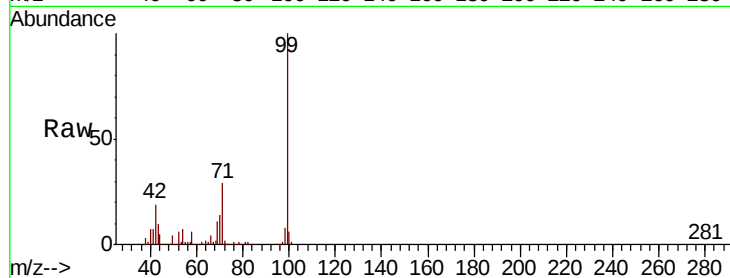
Tgt Ion: 99 Resp: 460825

Ion Ratio Lower Upper

99 100

42 19.3 17.9 26.9

71 28.9 26.2 39.2

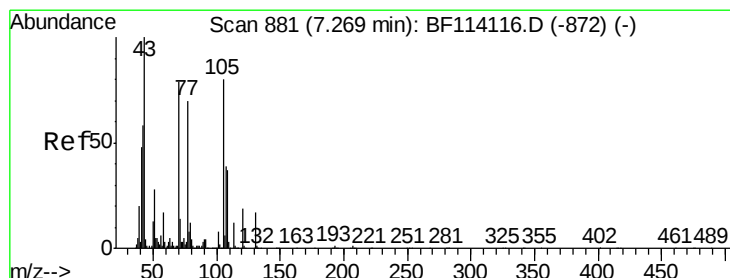
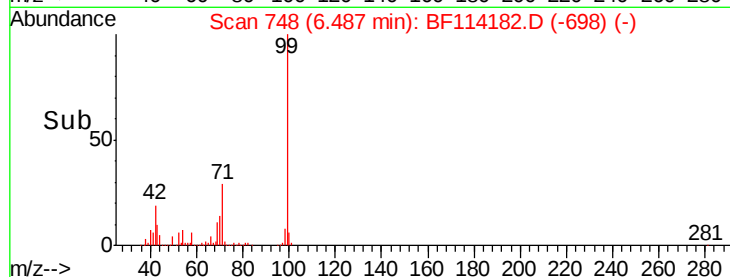
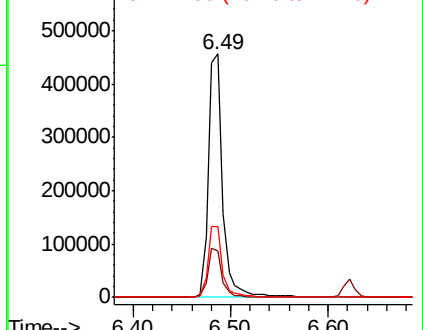


Abundance

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: 2.815 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Tgt Ion: 70 Resp: 33904

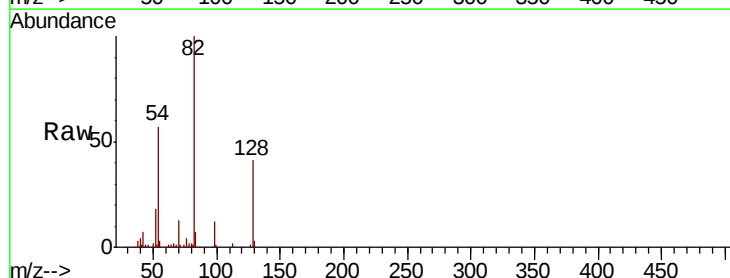
Ion Ratio Lower Upper

70 100

42 55.1 58.6 87.8#

101 0.0 7.8 11.8#

130 2.7 17.1 25.7#



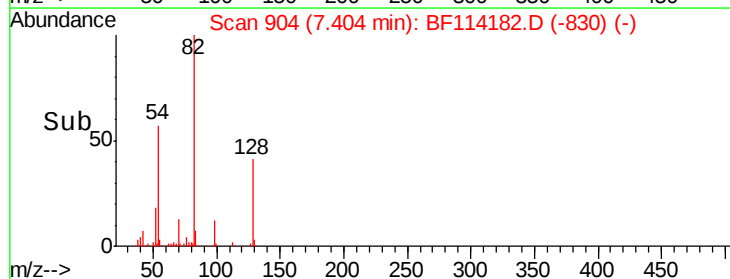
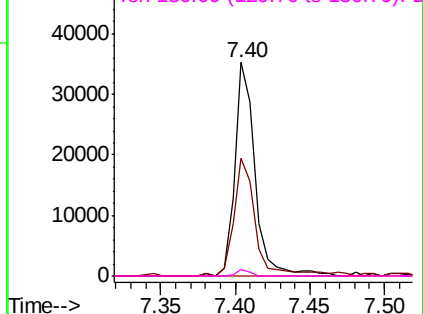
Abundance

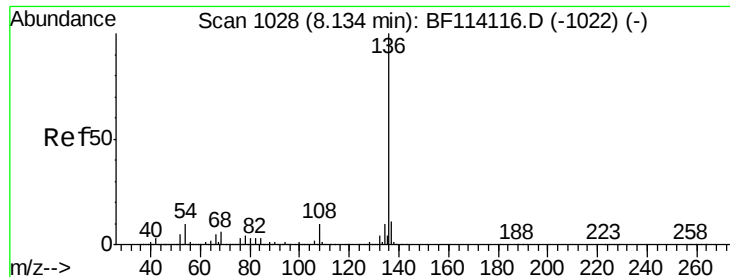
Ion 70.00 (69.70 to 70.70): BF1

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

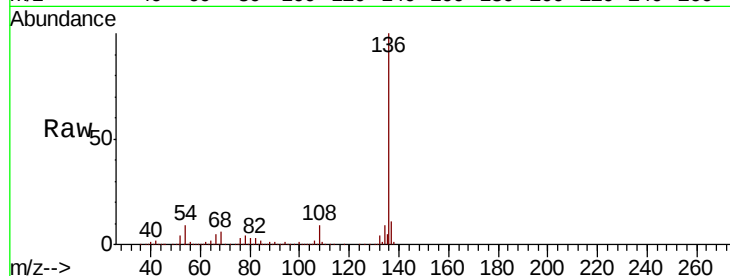




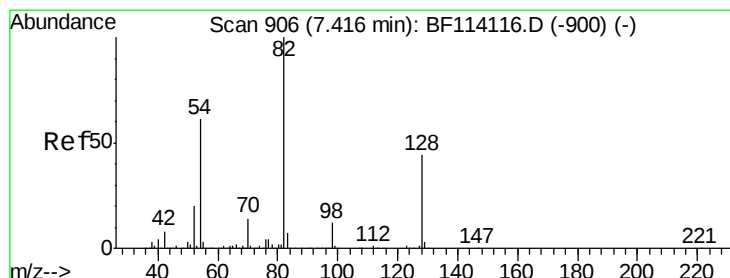
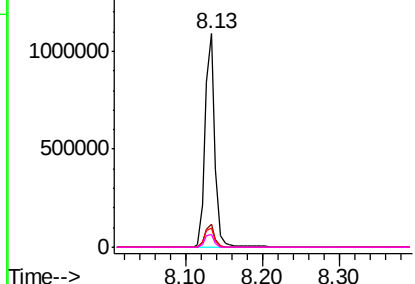
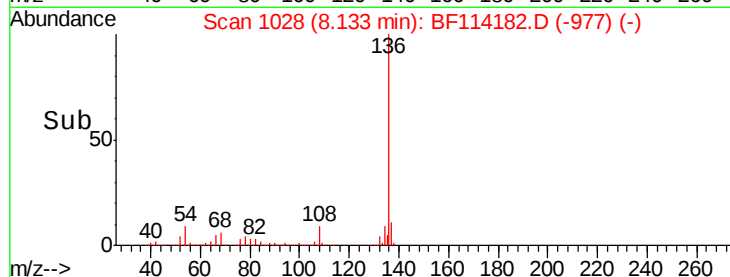
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1028
Delta R.T. -0.00 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

Tgt Ion:	136	Resp:	961519
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	8.9	7.8	11.8
68	6.0	5.1	7.7

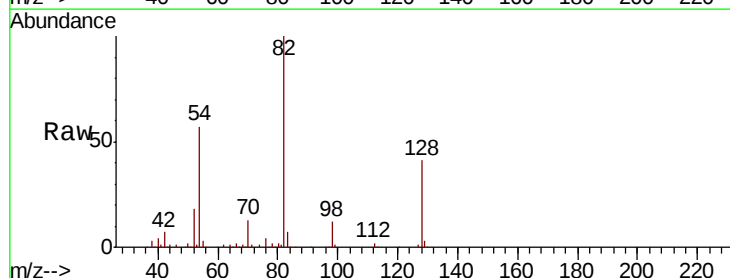


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1

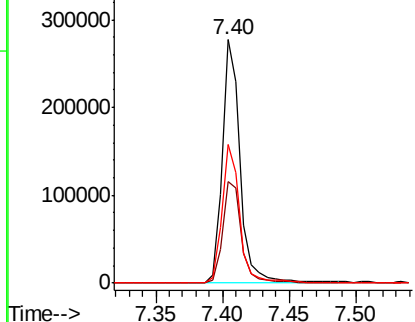
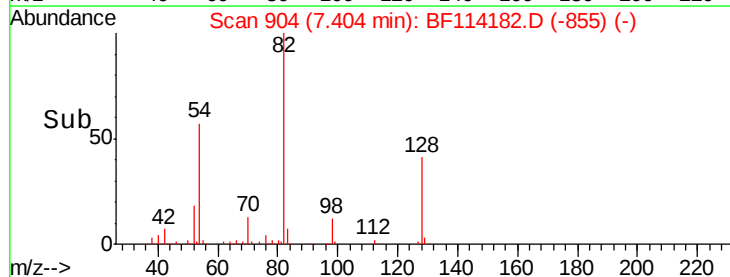


#23
Nitrobenzene-d5
Concen: 15.340 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion:	82	Resp:	262824
Ion	Ratio	Lower	Upper
82	100		
128	41.5	35.5	53.3
54	56.9	48.5	72.7



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: 8.191 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

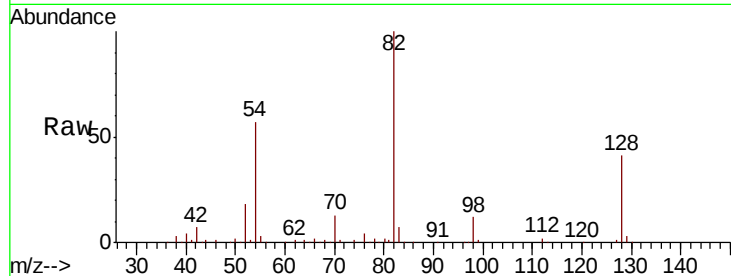
Tgt Ion: 82 Resp: 260259

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

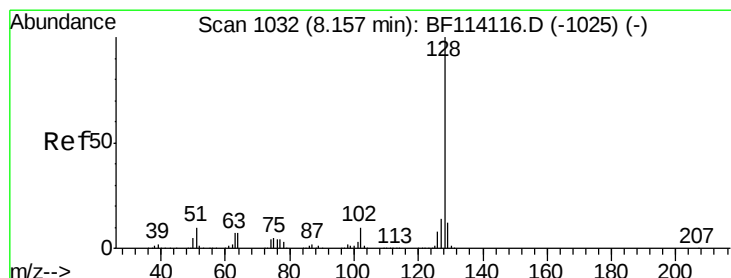
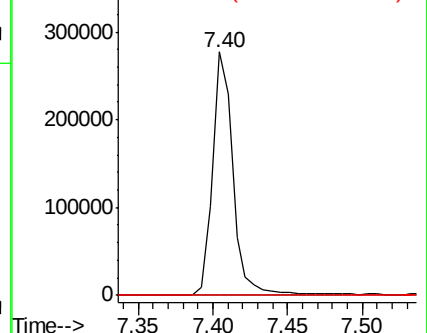
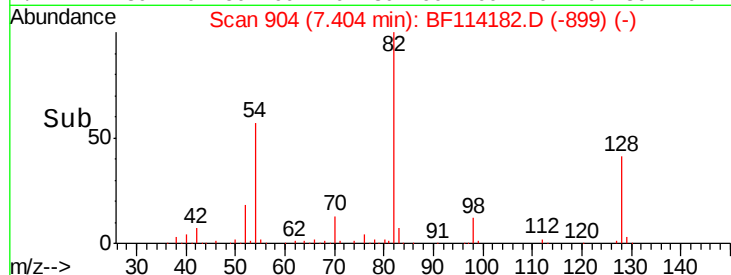
138 0.0 14.8 22.2#



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



#31

Naphthalene

Concen: 4.244 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

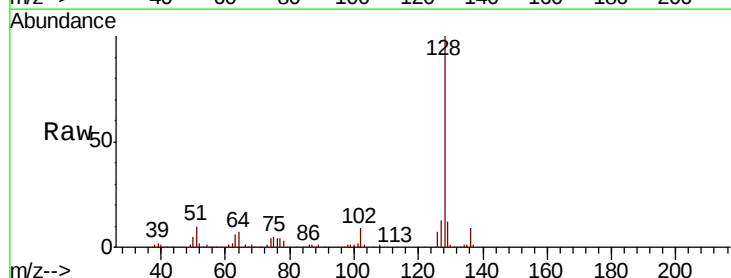
Tgt Ion: 128 Resp: 190593

Ion Ratio Lower Upper

128 100

129 11.8 9.6 14.4

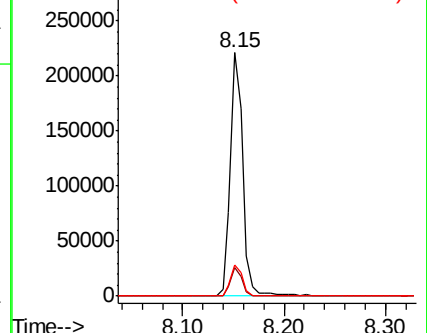
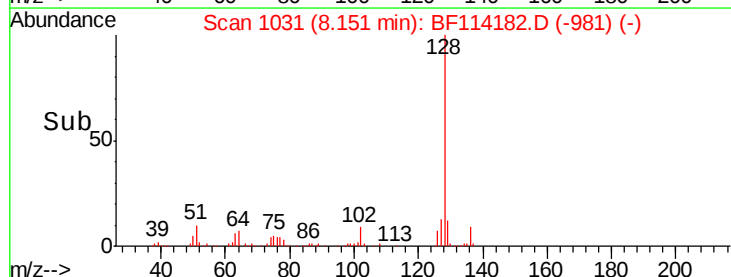
127 12.9 11.3 16.9

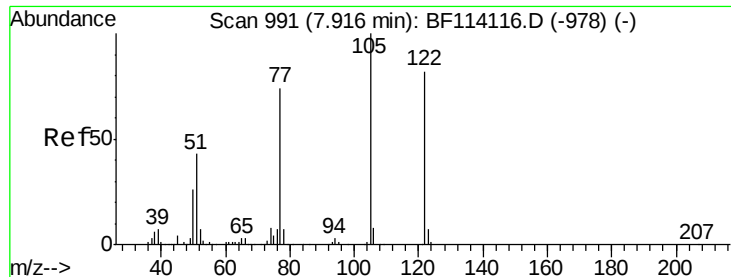


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 7.134 ng

RT: 7.87 min Scan# 983

Delta R.T. -0.05 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

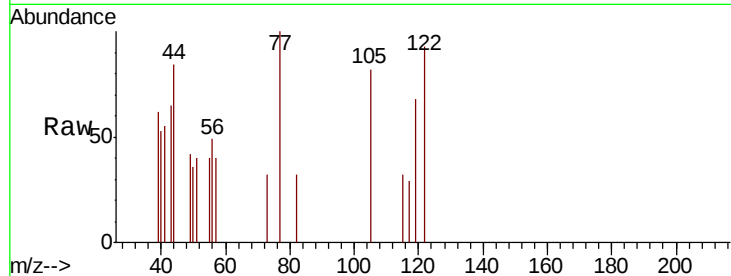
BNA_F

ClientSampleId :

P026-SS013-0206-01

Tgt Ion:122 Resp: 1264

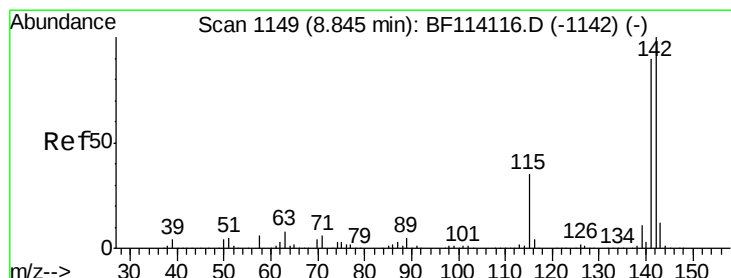
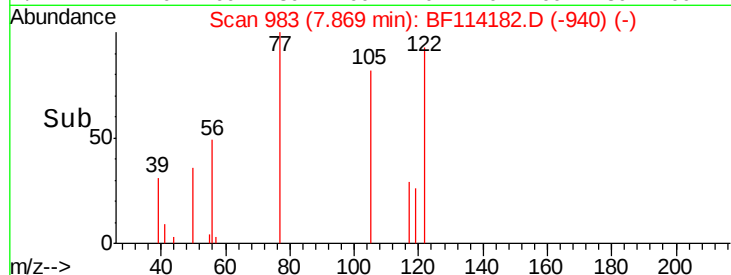
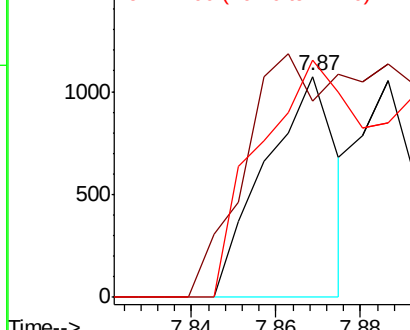
Ion	Ratio	Lower	Upper
122	100		
105	88.7	99.9	139.9#
77	107.5	69.4	109.4



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#37

2-Methylnaphthalene

Concen: 2.501 ng

RT: 8.85 min Scan# 1149

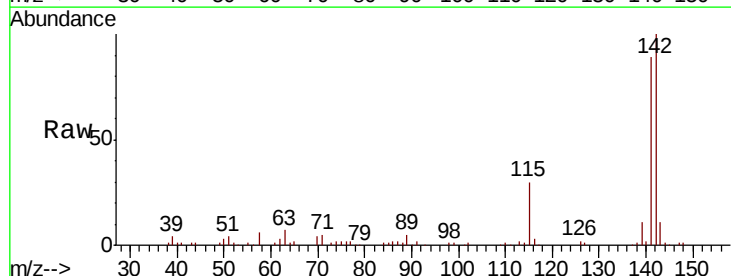
Delta R.T. -0.00 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Tgt Ion:142 Resp: 72477

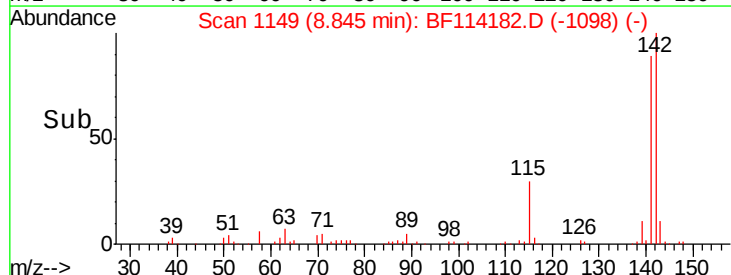
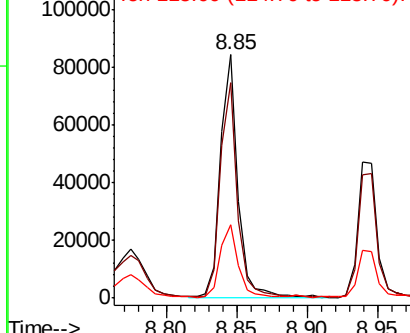
Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.1	108.1
115	30.4	28.0	42.0

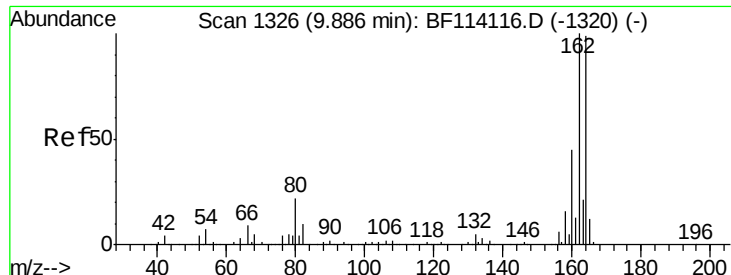


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

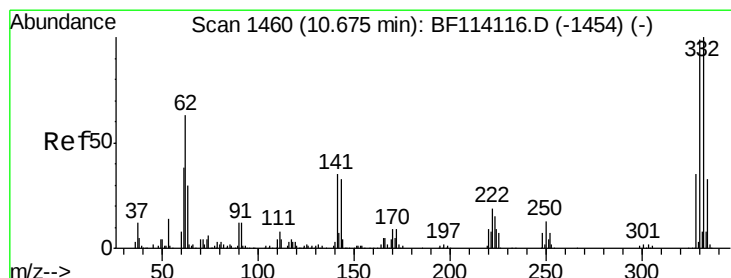
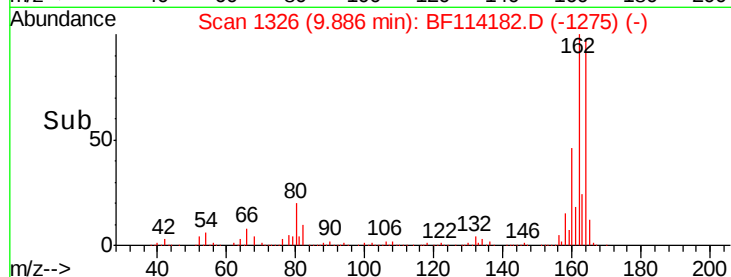
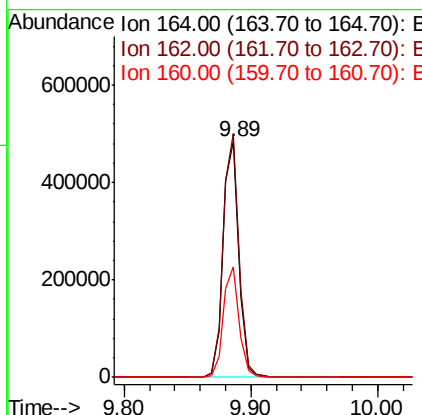
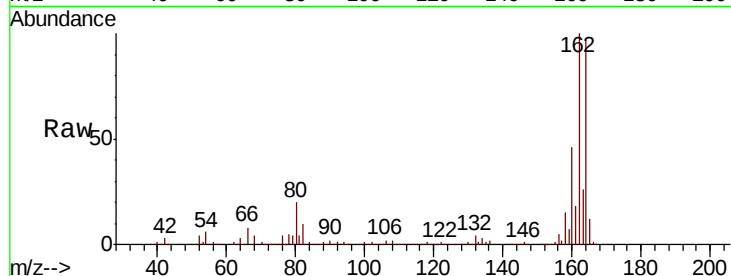




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

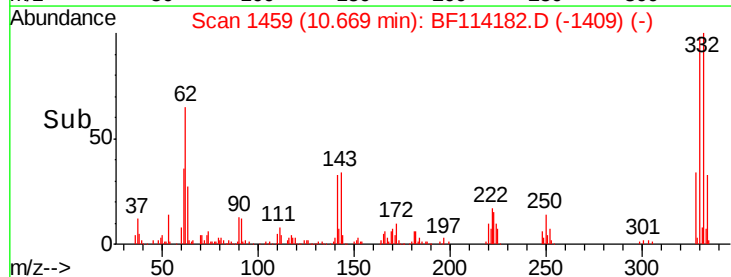
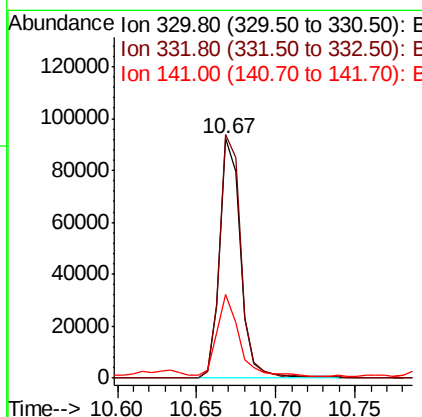
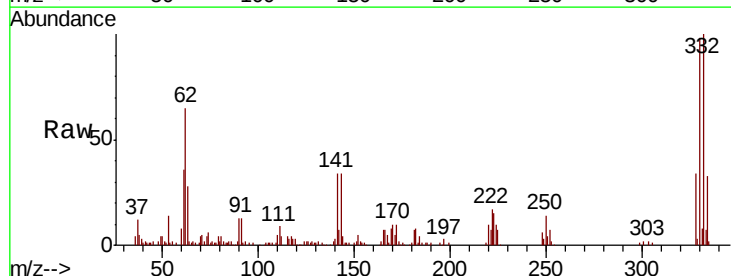
Instrument :
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P026-SS013-0206-01

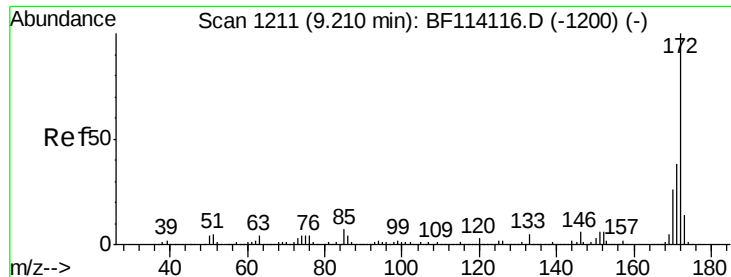
Tgt Ion:164 Resp: 420657
Ion Ratio Lower Upper
164 100
162 103.3 80.6 120.8
160 47.0 36.5 54.7



#42
2,4,6-Tribromophenol
Concen: 19.340 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion:330 Resp: 84106
Ion Ratio Lower Upper
330 100
332 104.3 81.4 122.2
141 35.7 26.6 40.0

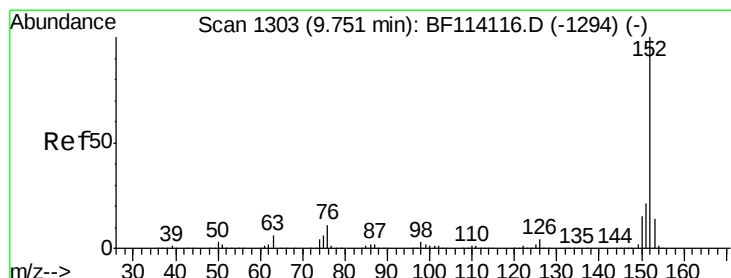
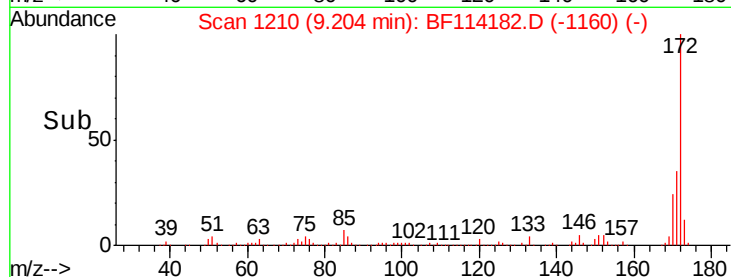
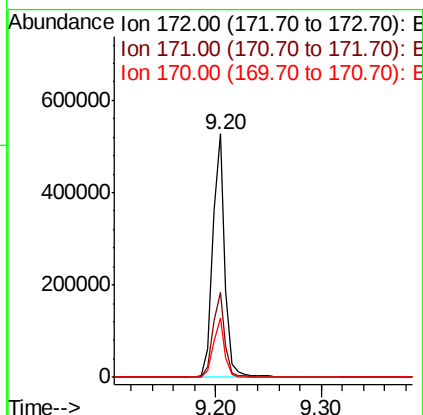
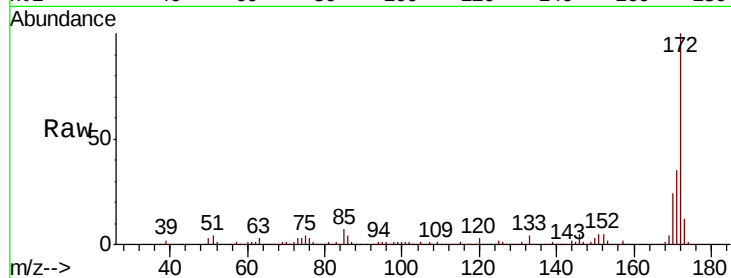




#45
 2-Fluorobiphenyl
 Concen: 15.437 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

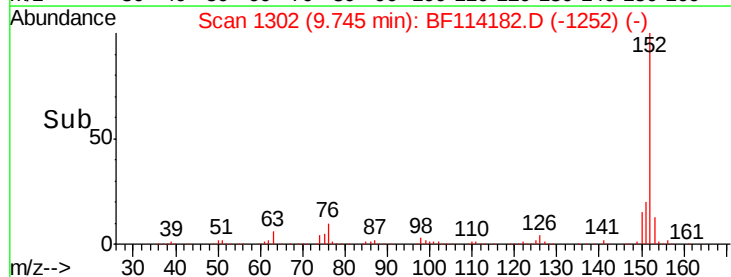
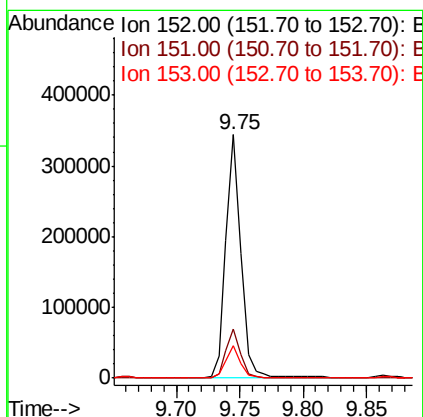
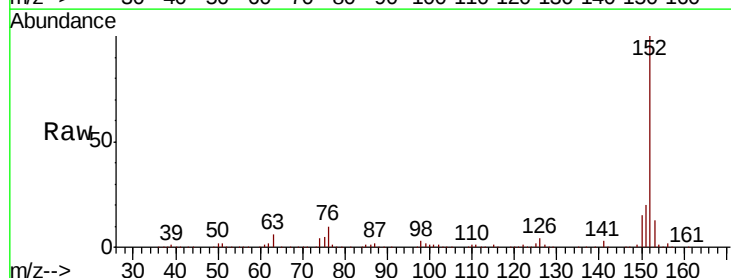
Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0206-01

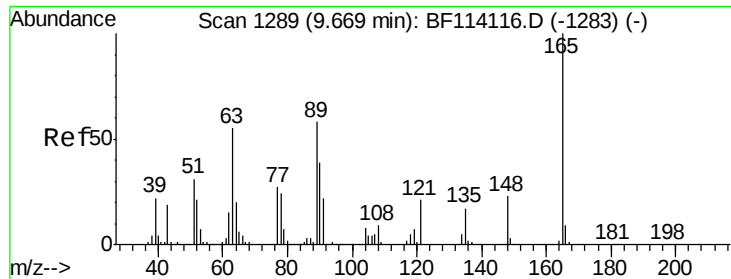
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	30.7	46.1
170	24.2	20.5	30.7



#49
 Acenaphthylene
 Concen: 6.857 ng
 RT: 9.75 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.8	25.2
153	13.1	11.4	17.2

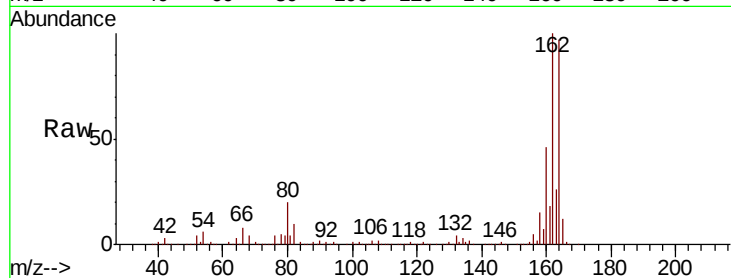




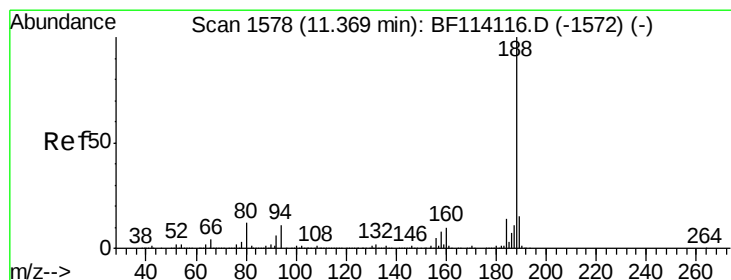
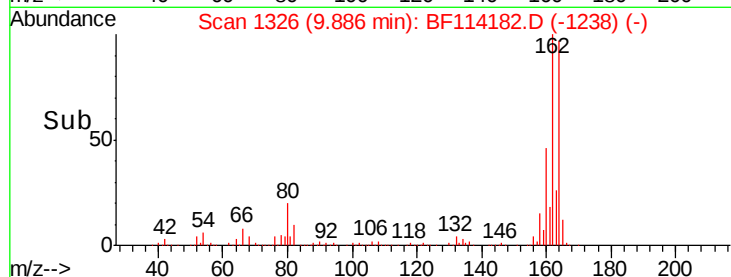
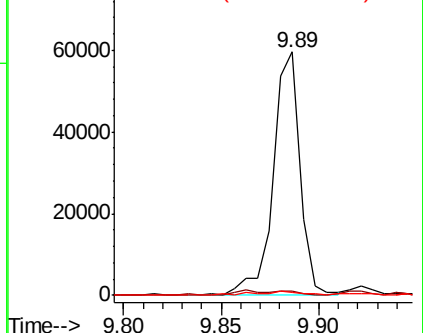
#51
 2,6-Dinitrotoluene
 Concen: 8.349 ng
 RT: 9.89 min Scan# 1326
 Delta R.T. 0.22 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0206-01

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.7	50.2	75.4#
89	1.1	46.6	69.8#

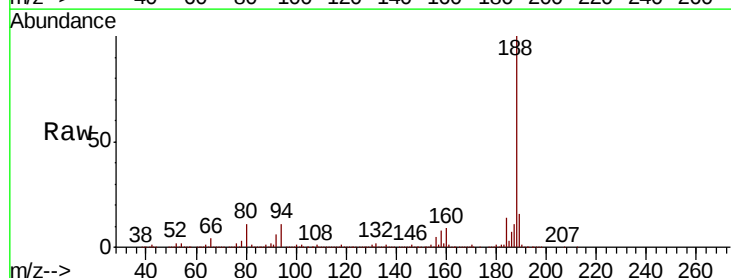


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1

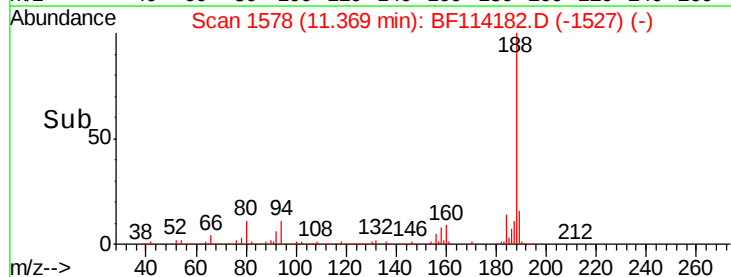
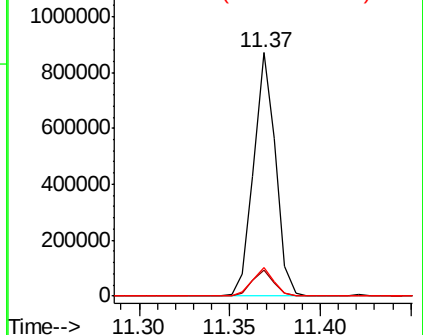


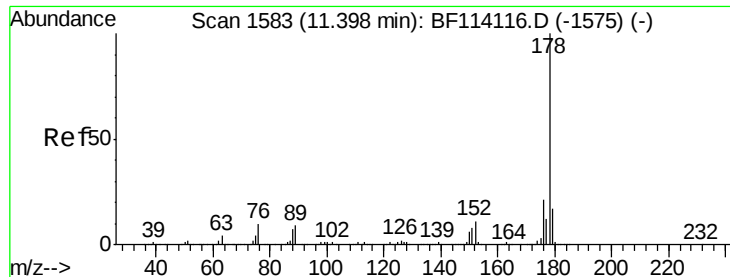
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.4	12.6
80	11.5	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

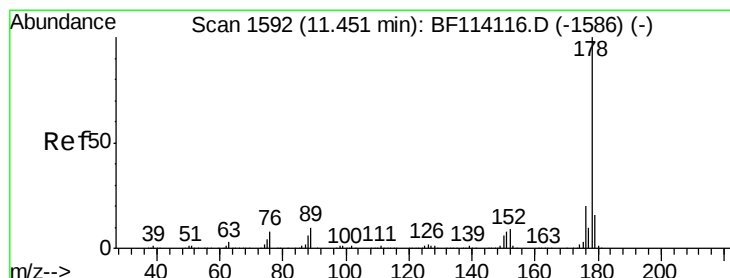
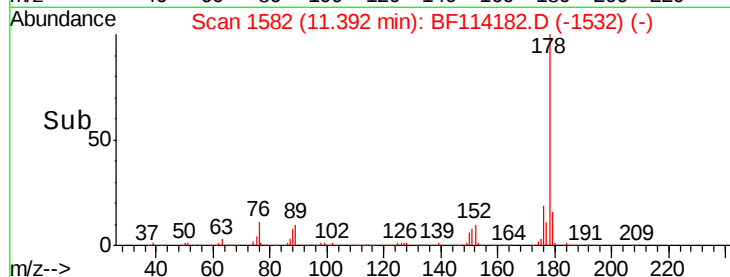
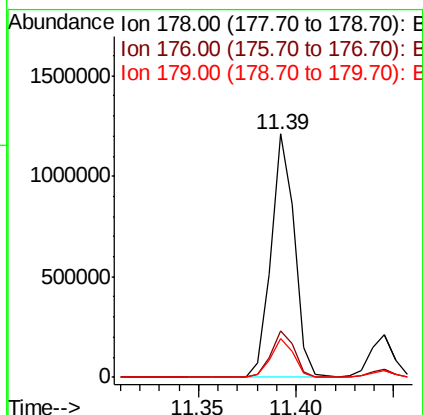
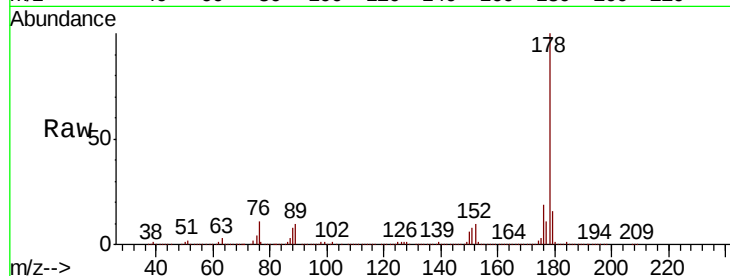




#71
Phenanthrene
Concen: 28.078 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

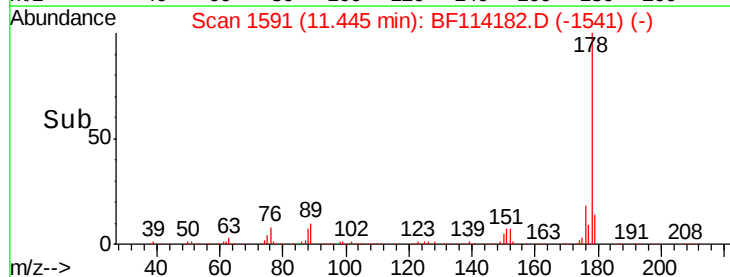
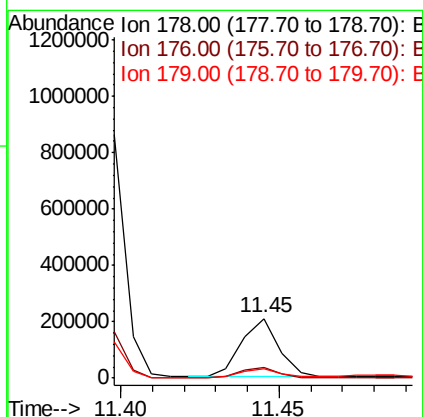
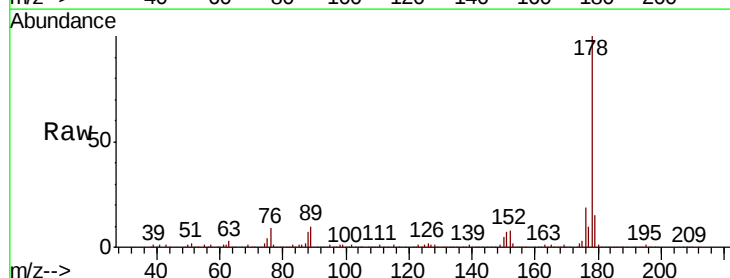
Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

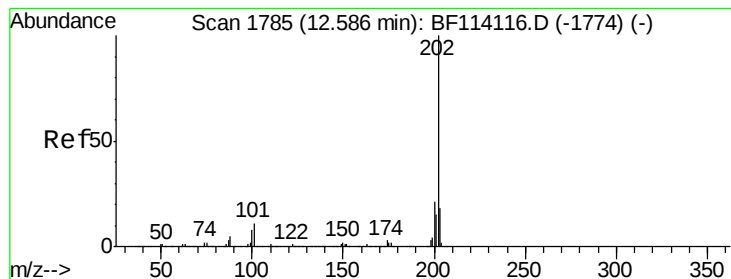
Tgt Ion:178 Resp: 998624
Ion Ratio Lower Upper
178 100
176 19.3 16.4 24.6
179 15.9 13.2 19.8



#72
Anthracene
Concen: 4.756 ng
RT: 11.45 min Scan# 1591
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion:178 Resp: 169910
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 14.8 13.0 19.4





#75

Fluoranthene

Concen: 33.849 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.00 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

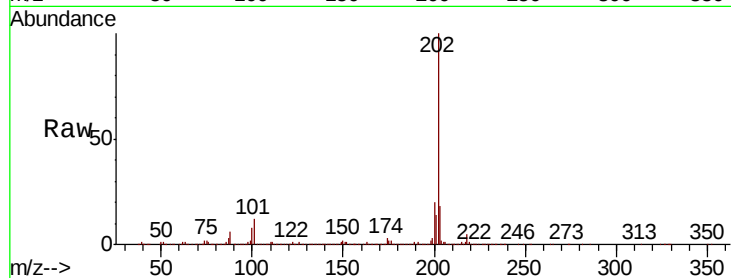
Tgt Ion:202 Resp: 1296399

Ion Ratio Lower Upper

202 100

101 11.8 0.0 31.0

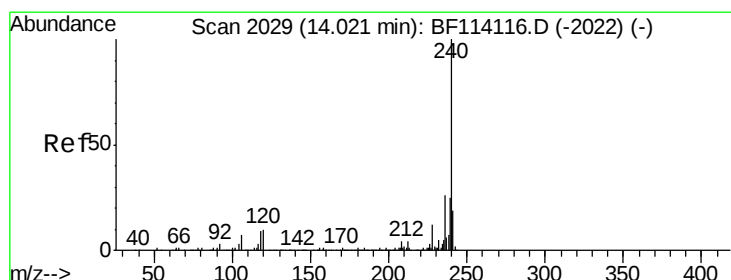
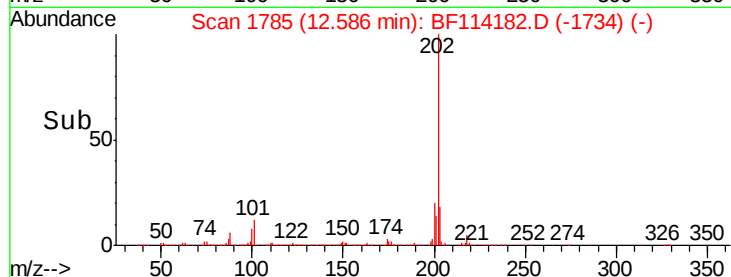
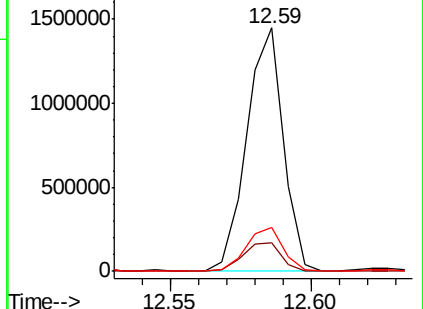
203 18.1 0.0 38.4



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. -0.01 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

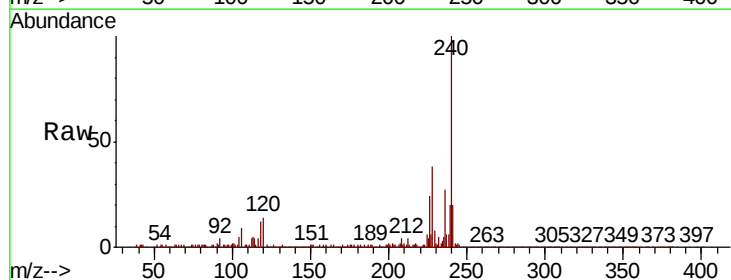
Tgt Ion:240 Resp: 575779

Ion Ratio Lower Upper

240 100

120 14.4 8.3 12.5#

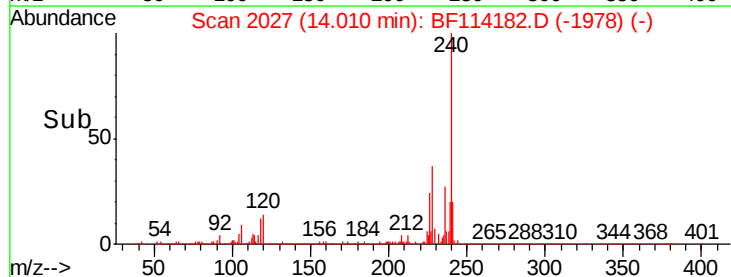
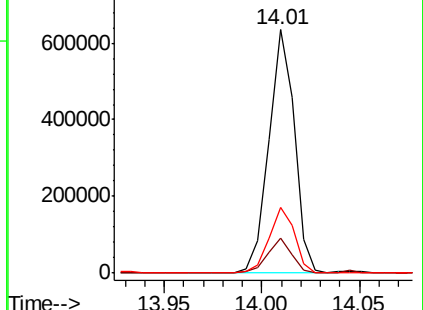
236 27.1 20.8 31.2

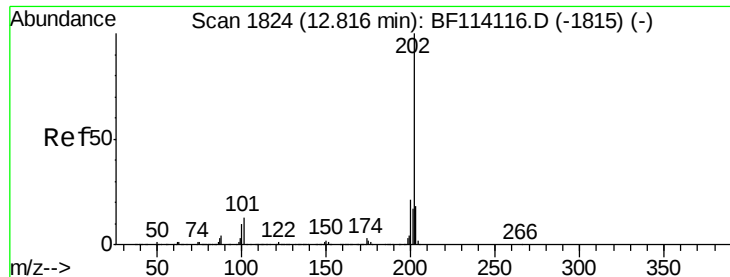


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

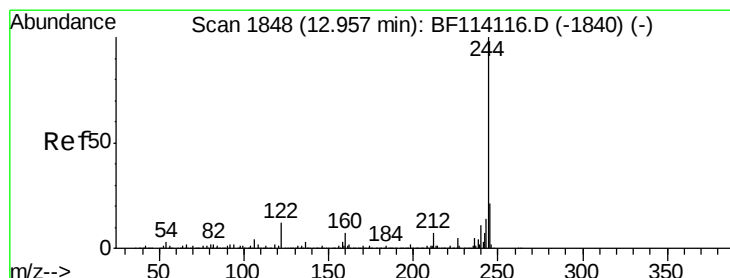
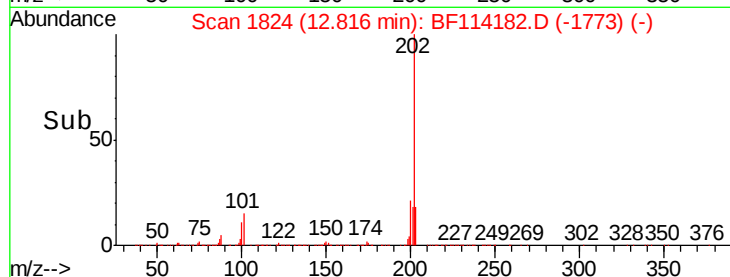
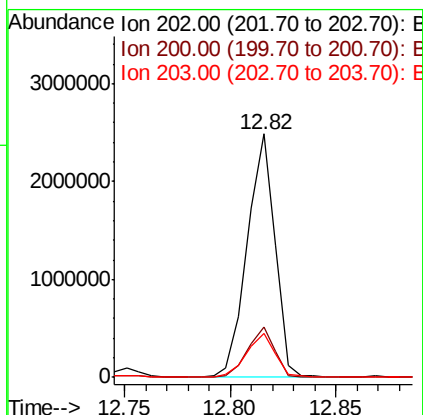
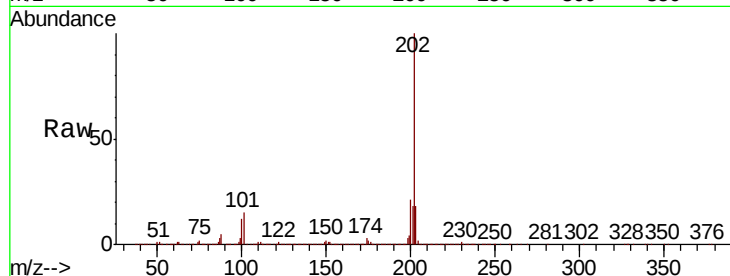




#78
 Pyrene
 Concen: 48.946 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.00 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

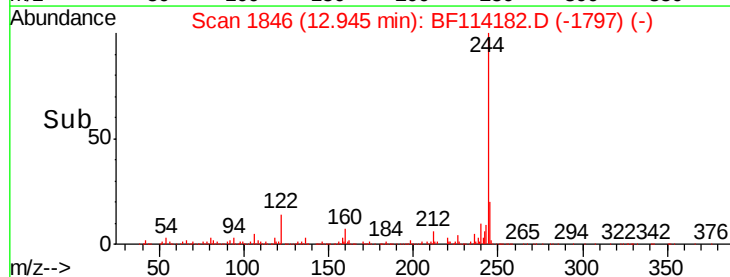
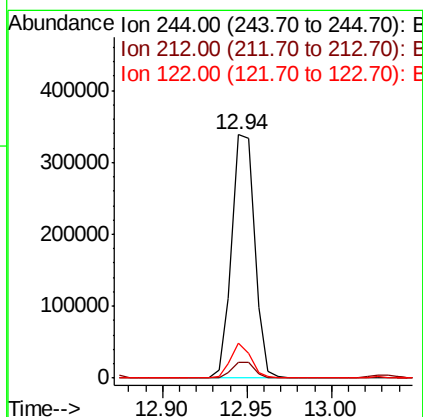
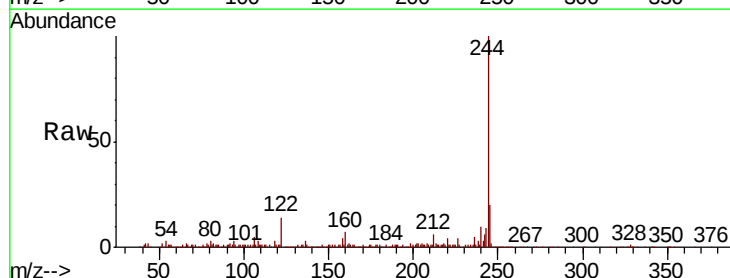
Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0206-01

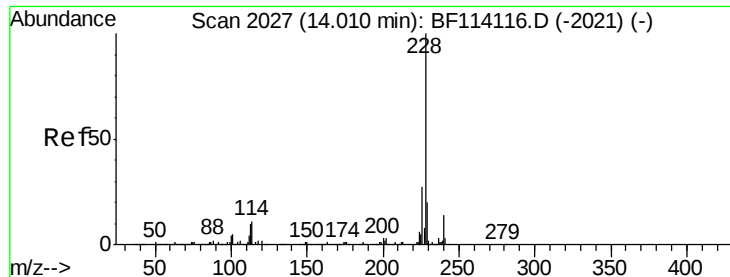
Tgt Ion:202 Resp: 2267114
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.9 25.3
 203 18.3 14.5 21.7



#79
 Terphenyl-d14
 Concen: 11.409 ng
 RT: 12.94 min Scan# 1846
 Delta R.T. -0.01 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

Tgt Ion:244 Resp: 318664
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.8 8.6
 122 14.2 9.4 14.2#

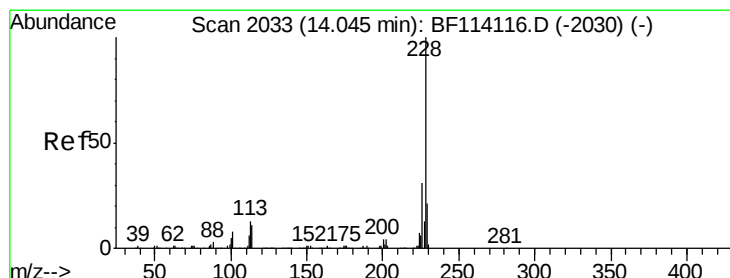
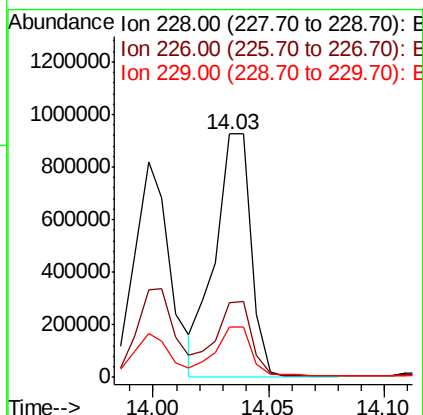
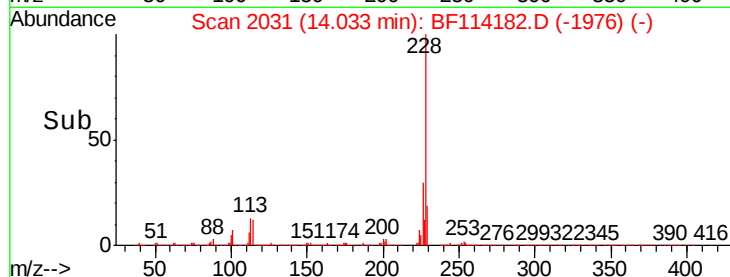
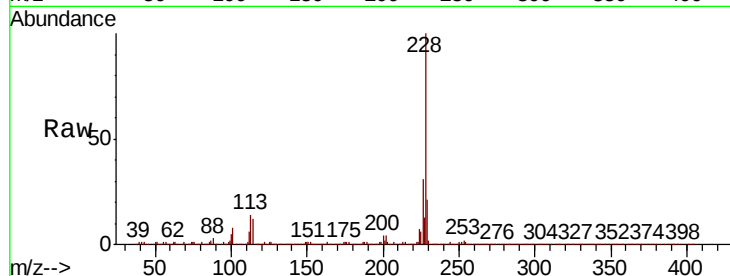




#81
Benzo(a)anthracene
Concen: 26.855 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.02 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

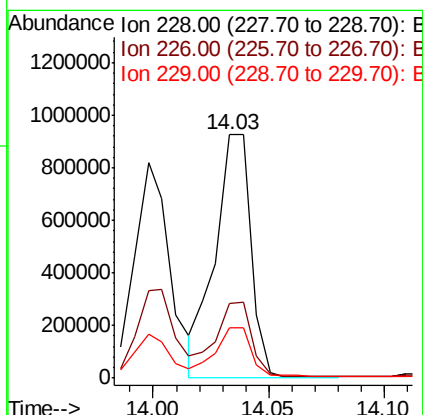
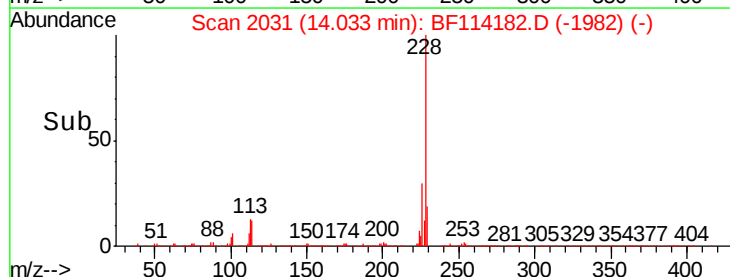
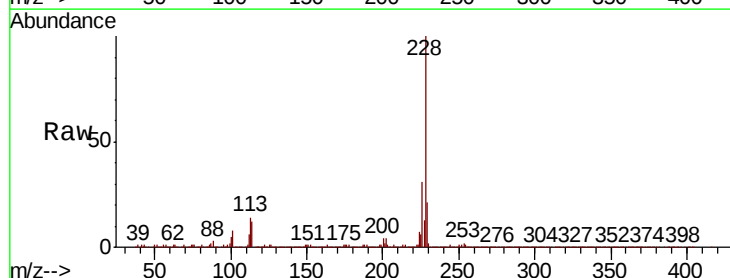
Instrument :
BNA_F
ClientSampleId :
P026-SS013-0206-01

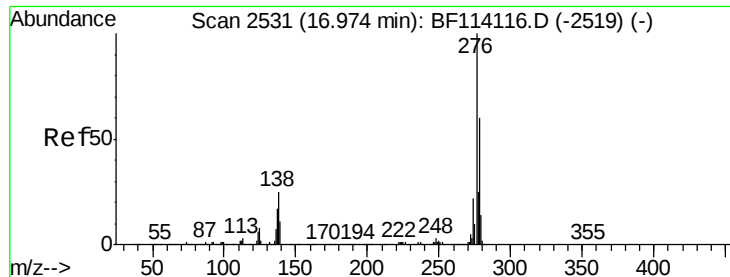
Tgt Ion:228 Resp: 1000108
Ion Ratio Lower Upper
228 100
226 30.6 22.2 33.2
229 20.6 16.4 24.6



#83
Chrysene
Concen: 27.395 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.01 min
Lab File: BF114182.D
Acq: 12 May 2019 4:23

Tgt Ion:228 Resp: 1000108
Ion Ratio Lower Upper
228 100
226 30.6 25.0 37.6
229 20.6 17.0 25.6





#86

Indeno(1,2,3-cd)pyrene

Concen: 12.378 ng

RT: 16.94 min Scan# 2526

Delta R.T. -0.03 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

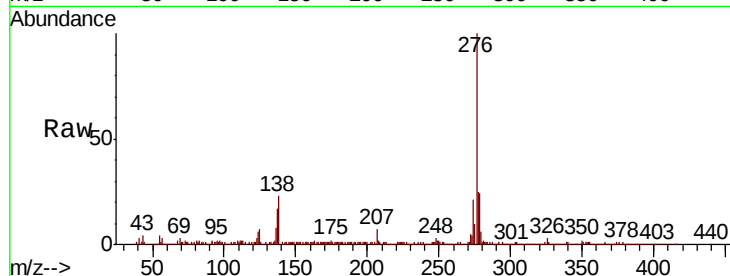
Tgt Ion:276 Resp: 399352

Ion Ratio Lower Upper

276 100

138 23.1 20.2 30.2

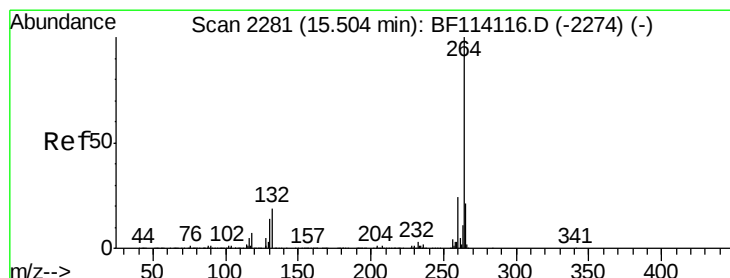
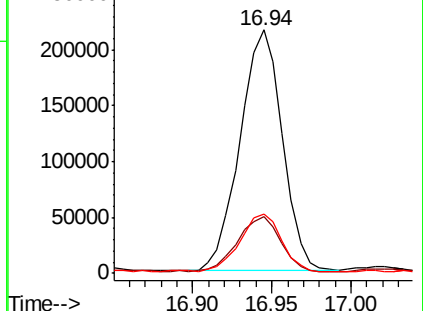
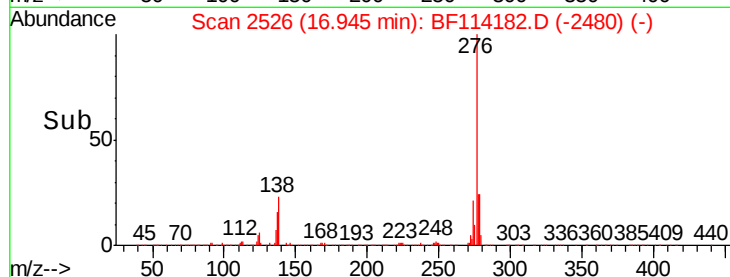
277 24.0 20.0 30.0



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: 15.48 min Scan# 2277

Delta R.T. -0.02 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

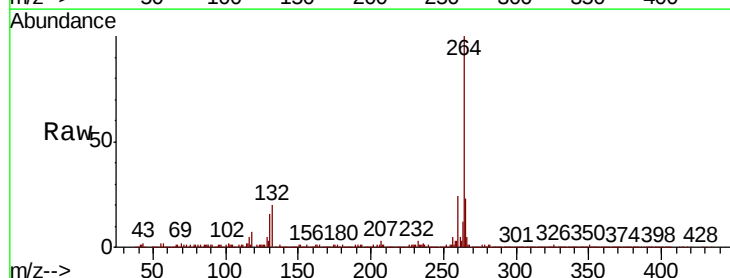
Tgt Ion:264 Resp: 628428

Ion Ratio Lower Upper

264 100

260 24.4 19.4 29.0

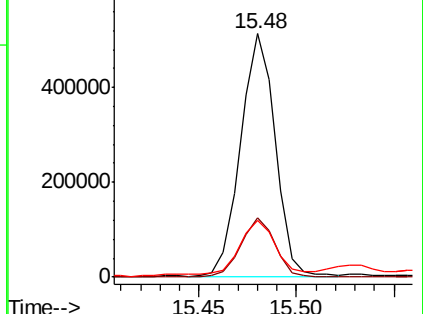
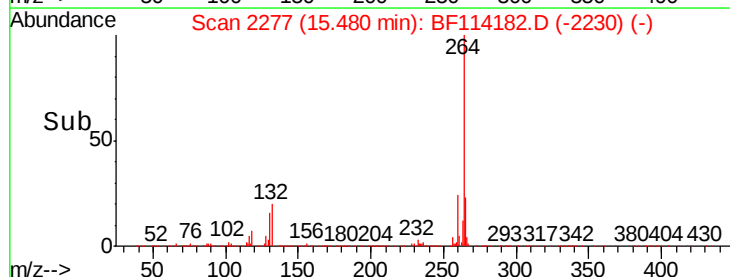
265 23.1 16.9 25.3

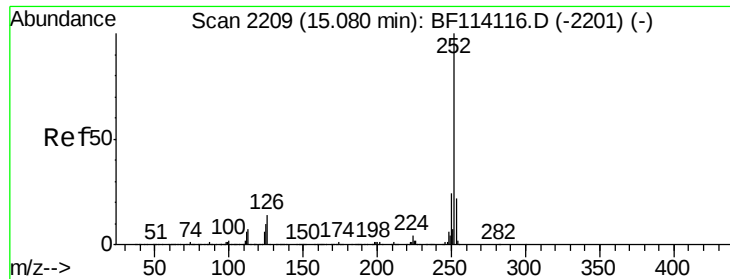


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#88

Benzo(b)fluoranthene

Concen: 32.758 ng

RT: 15.06 min Scan# 2205

Delta R.T. -0.02 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

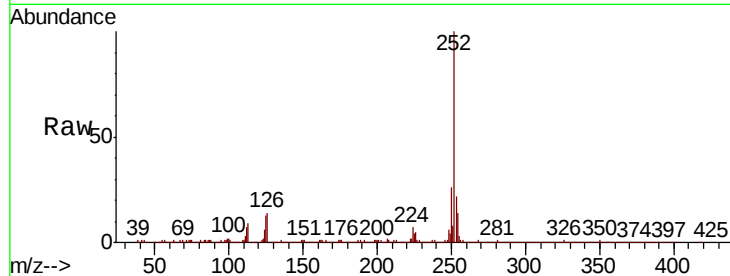
Tgt Ion:252 Resp: 1318846

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.8

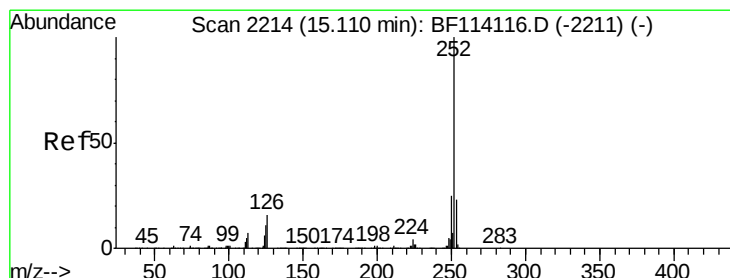
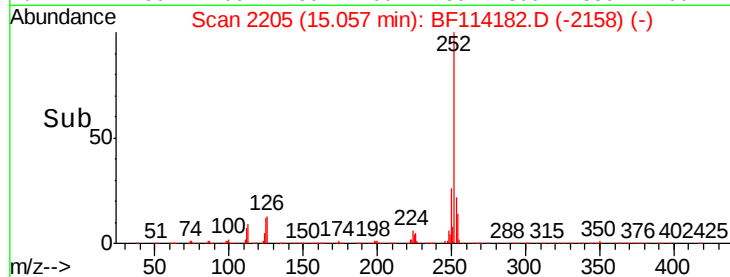
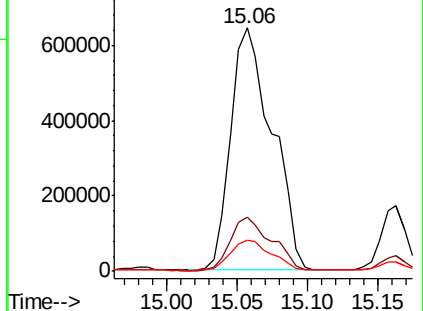
125 13.0 8.3 12.5#



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: 35.660 ng

RT: 15.06 min Scan# 2205

Delta R.T. -0.05 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

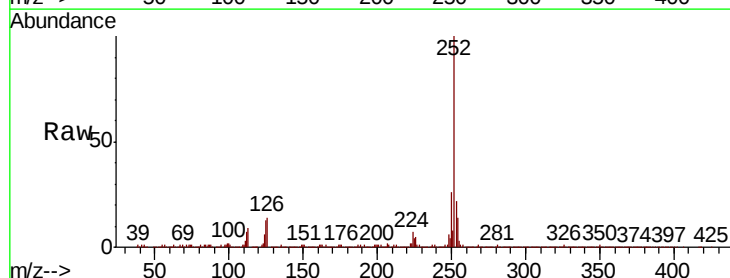
Tgt Ion:252 Resp: 1318846

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.2

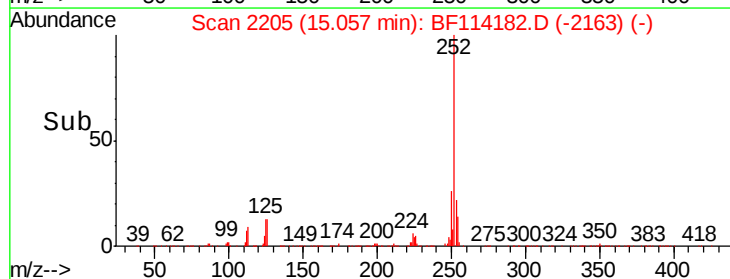
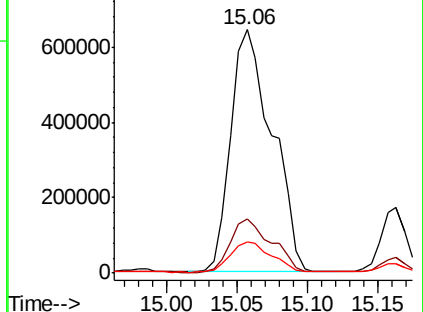
125 13.0 8.6 13.0#

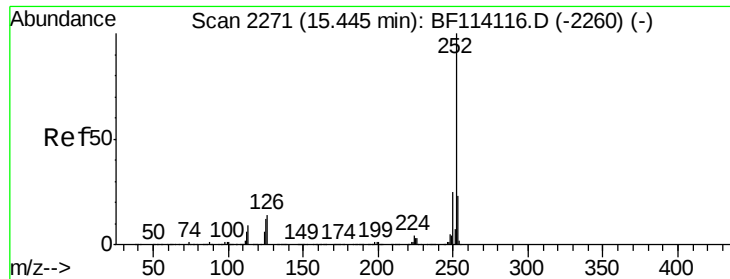


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 19.140 ng

RT: 15.42 min Scan# 2267

Delta R.T. -0.02 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0206-01

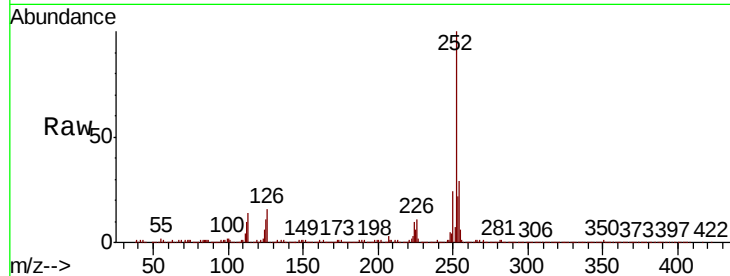
Tgt Ion:252 Resp: 678192

Ion Ratio Lower Upper

252 100

253 22.4 18.1 27.1

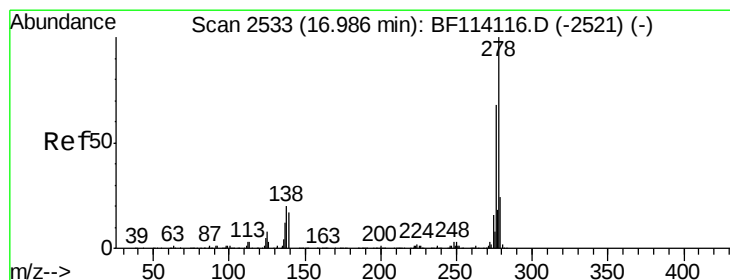
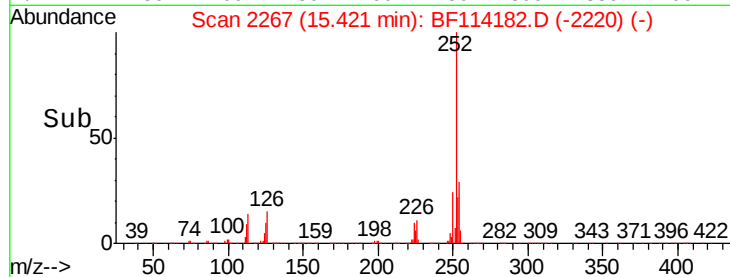
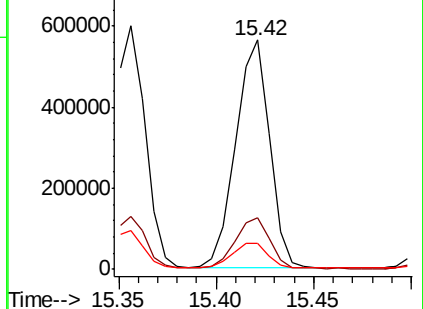
125 11.5 9.5 14.3



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



#91

Dibenzo(a,h)anthracene

Concen: 2.912 ng

RT: 17.17 min Scan# 2565

Delta R.T. 0.19 min

Lab File: BF114182.D

Acq: 12 May 2019 4:23

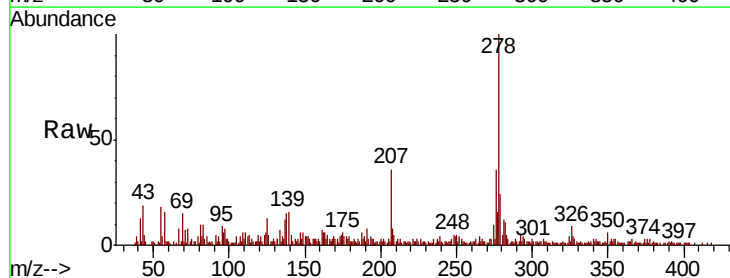
Tgt Ion:278 Resp: 85751

Ion Ratio Lower Upper

278 100

139 16.4 13.5 20.3

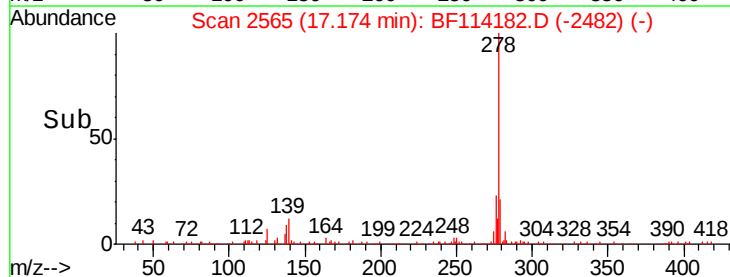
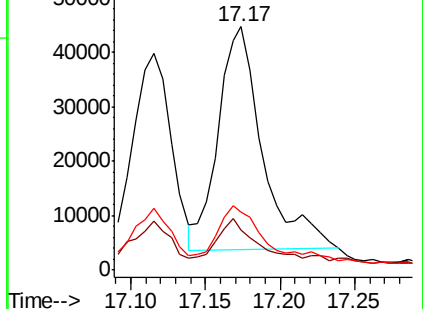
279 24.0 19.0 28.6

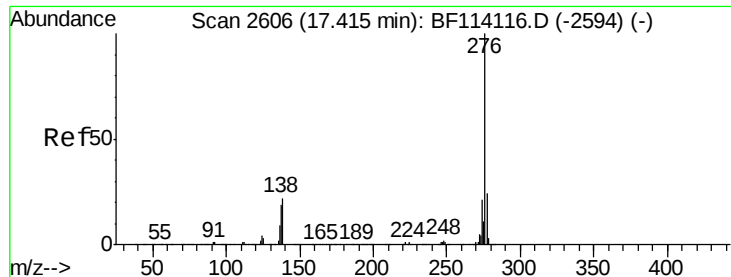


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(g,h,i)perylene
 Concen: 15.272 ng
 RT: 17.39 min Scan# 2601
 Delta R.T. -0.03 min
 Lab File: BF114182.D
 Acq: 12 May 2019 4:23

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0206-01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.0	28.4
138	22.9	17.8	26.6

