

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051119\
 Data File : BF114183.D
 Acq On : 12 May 2019 4:49
 Operator : JU/SJ
 Sample : K2767-20 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0002-01

Quant Time: May 12 06:00:51 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	256122	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	955385	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	430749	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	776672	20.00	ng	0.00
76) Chrysene-d12	14.01	240	636988	20.00	ng	-0.01
87) Perylene-d12	15.47	264	654703	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	312869	19.66	ng	0.00
7) Phenol-d6	6.48	99	421632	22.40	ng	-0.01
23) Nitrobenzene-d5	7.40	82	241684	14.20	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	82536	18.53	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	387850	13.62	ng	0.00
79) Terphenyl-d14	12.95	244	298668	9.67	ng	-0.01

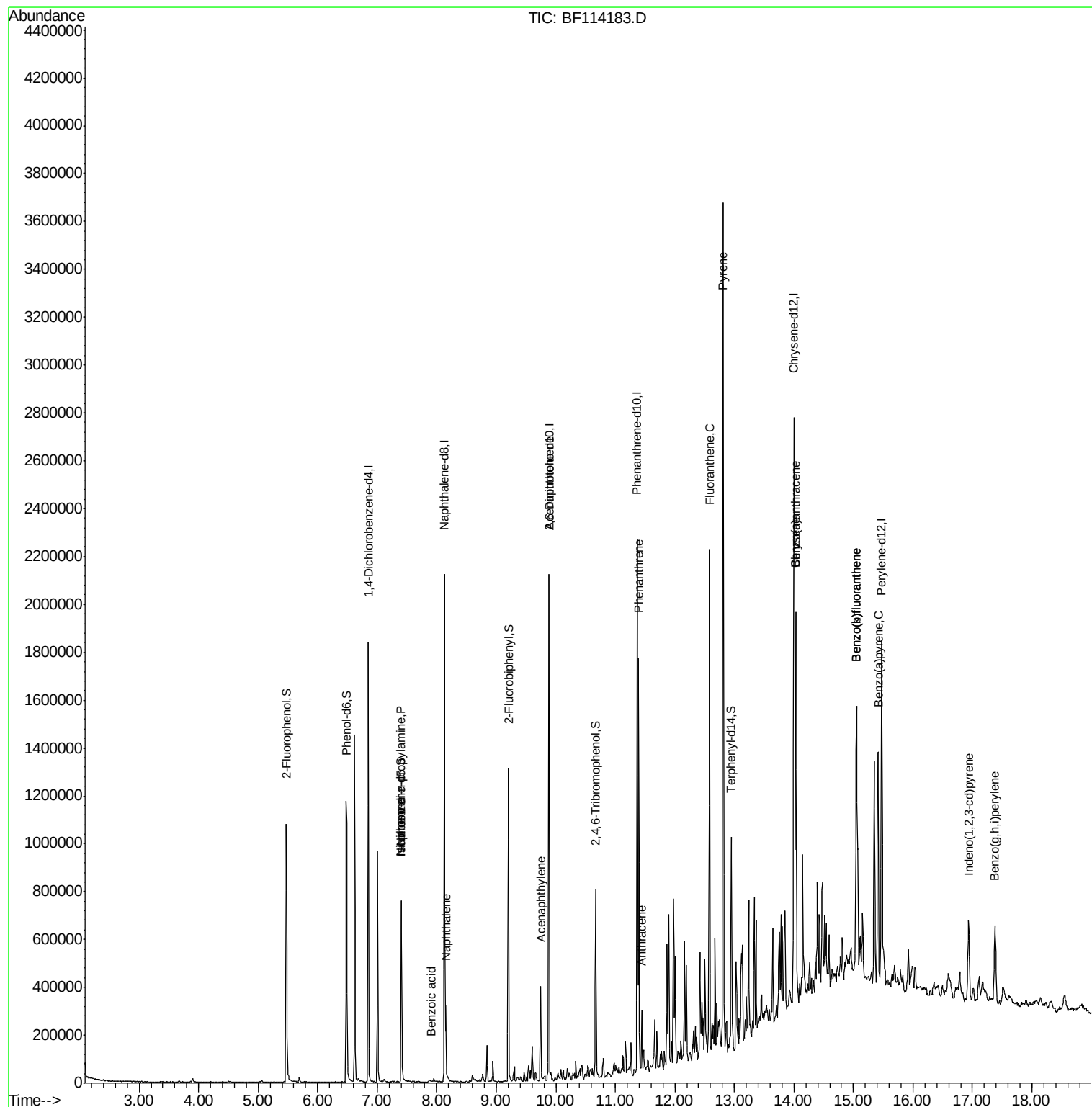
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	30268	2.537	ng	# 79
25) Isophorone	7.40	82	239613	7.589	ng	# 64
31) Naphthalene	8.15	128	112166	2.513	ng	96
32) Benzoic acid	7.92	122	744	7.088	ng	# 61
49) Acenaphthylene	9.75	152	162620	3.818	ng	96
51) 2,6-Dinitrotoluene	9.88	165	56839	8.104	ng	# 22
71) Phenanthrene	11.39	178	580844	15.372	ng	97
72) Anthracene	11.45	178	108056	2.847	ng	94
75) Fluoranthene	12.58	202	788826	19.386	ng	98
78) Pyrene	12.81	202	1474341	28.772	ng	99
81) Benzo(a)anthracene	14.03	228	591088	14.347	ng	97
83) Chrysene	14.03	228	591088	14.635	ng	97
86) Indeno(1,2,3-cd)pyrene	16.93	276	230888	6.469	ng	98
88) Benzo(b)fluoranthene	15.05	252	782815	18.663	ng	98
89) Benzo(k)fluoranthene	15.05	252	782815	20.317	ng	99
90) Benzo(a)pyrene	15.42	252	389702	10.557	ng	98
92) Benzo(g,h,i)perylene	17.38	276	260325	8.469	ng	98

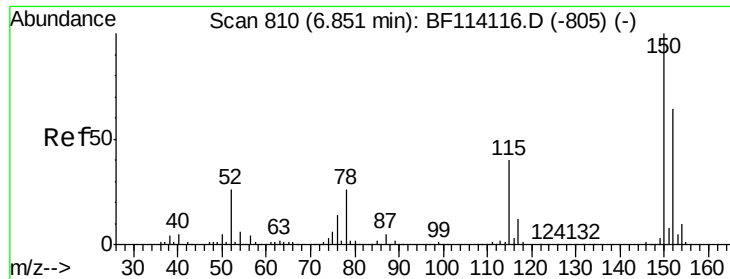
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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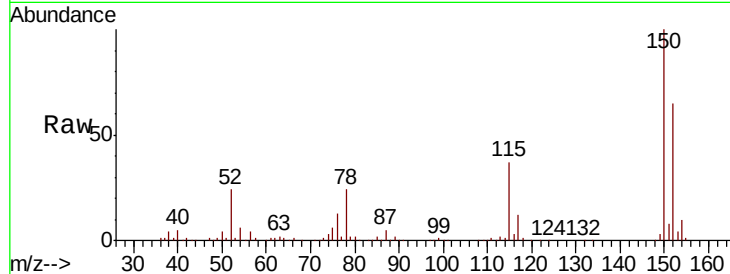


#1

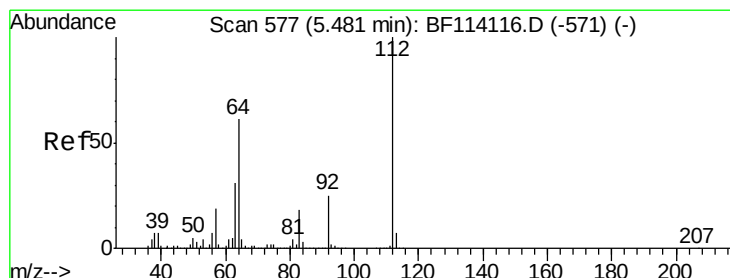
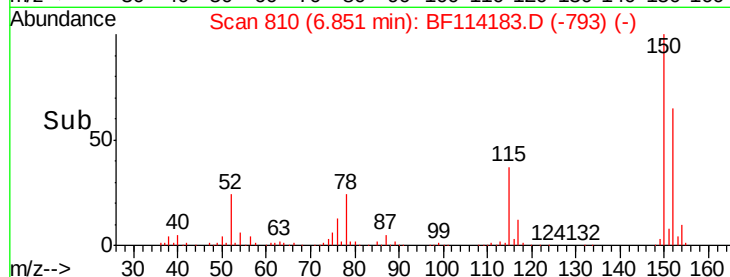
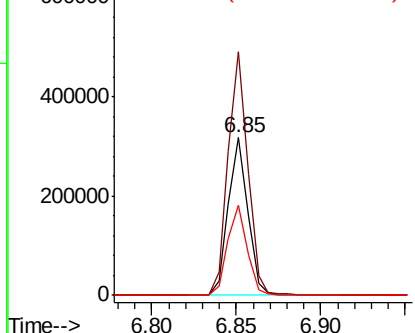
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

Instrument :
BNA_F
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P026-SS013-0002-01

Tgt Ion:152 Resp: 256122
Ion Ratio Lower Upper
152 100
150 154.8 124.3 186.5
115 57.2 49.1 73.7



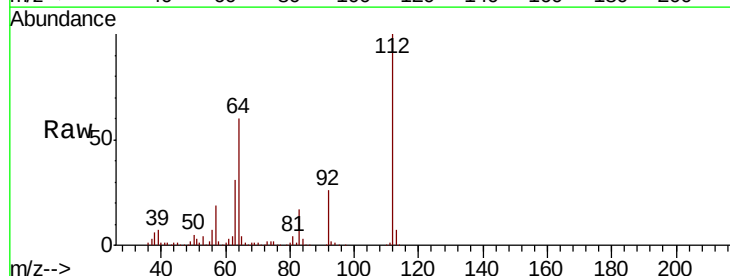
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



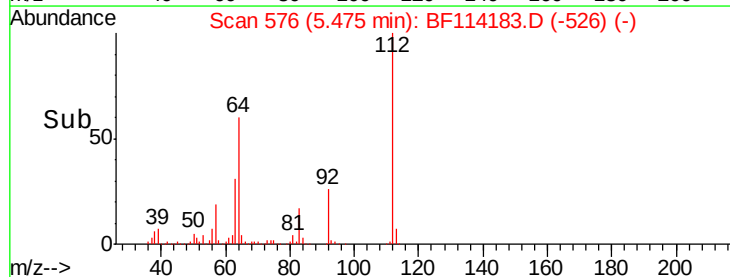
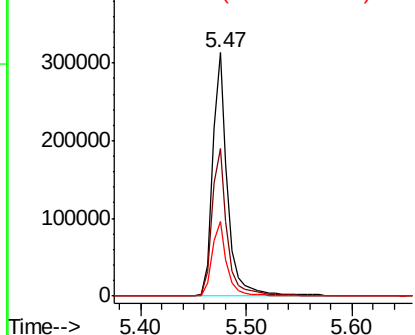
#5

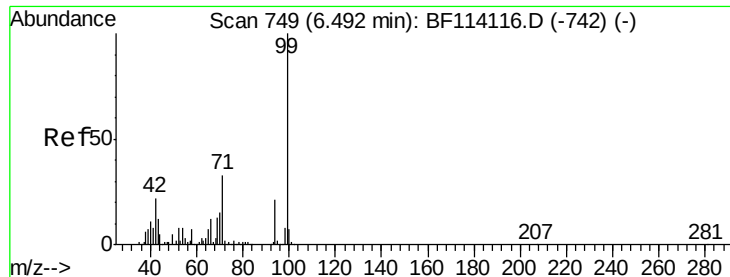
2-Fluorophenol
Concen: 19.658 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

Tgt Ion:112 Resp: 312869
Ion Ratio Lower Upper
112 100
64 60.4 49.0 73.6
63 30.6 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: 22.399 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0002-01

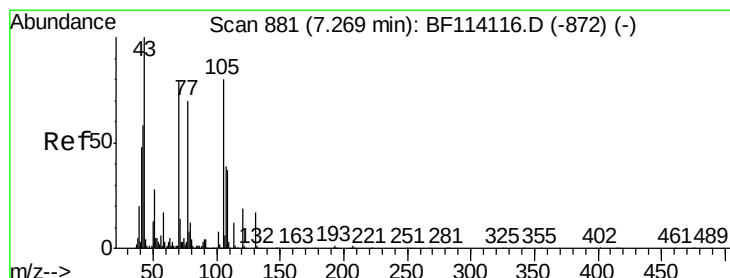
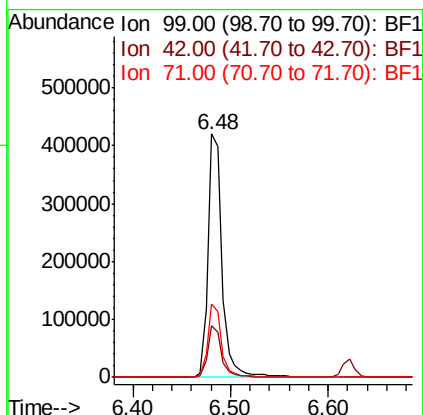
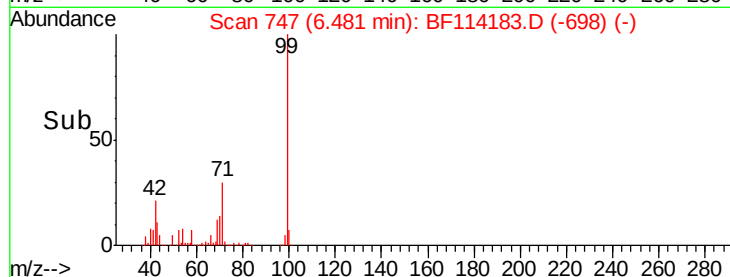
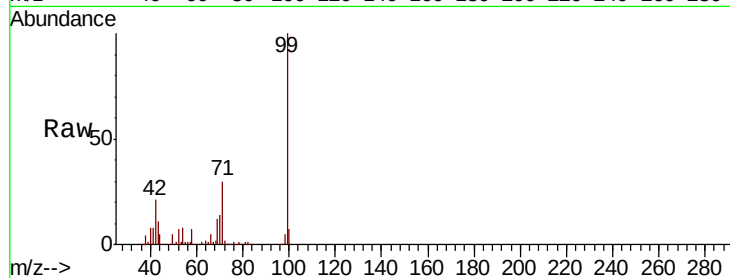
Tgt Ion: 99 Resp: 421632

Ion Ratio Lower Upper

99 100

42 21.4 17.9 26.9

71 30.2 26.2 39.2



#19

n-Nitroso-di-n-propylamine

Concen: 2.537 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

Tgt Ion: 70 Resp: 30268

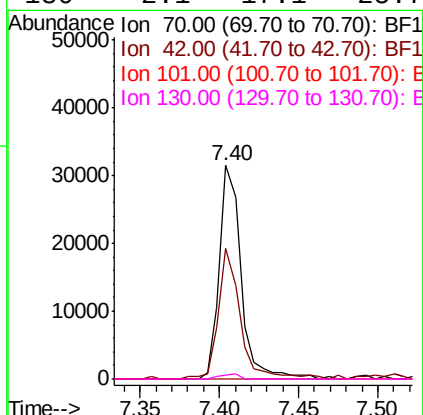
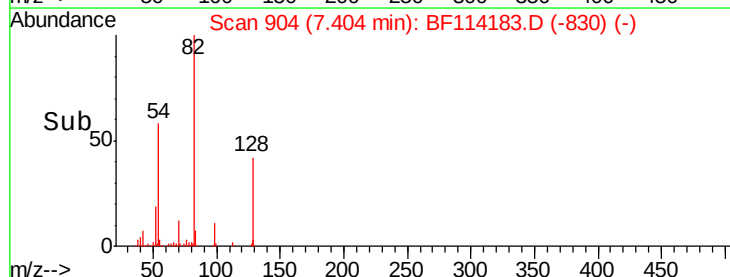
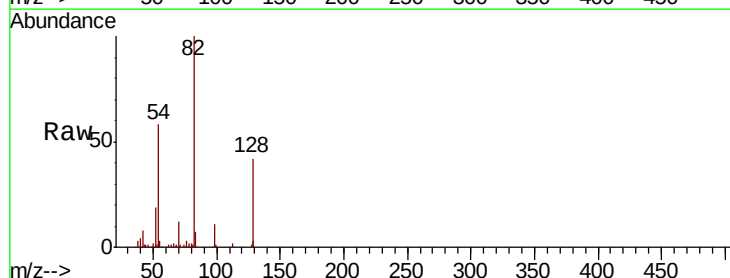
Ion Ratio Lower Upper

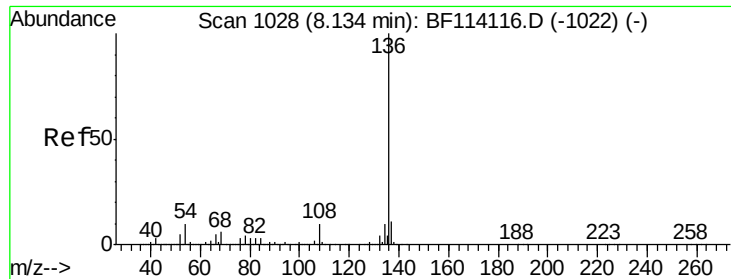
70 100

42 61.0 58.6 87.8

101 0.0 7.8 11.8#

130 2.1 17.1 25.7#

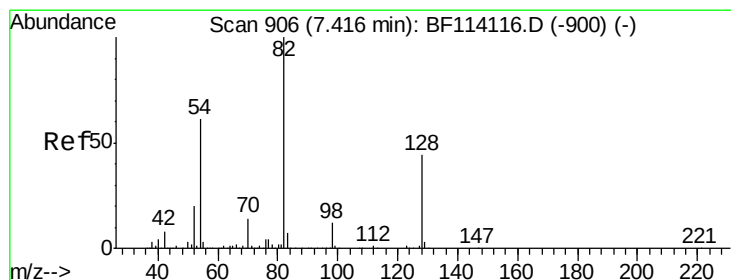
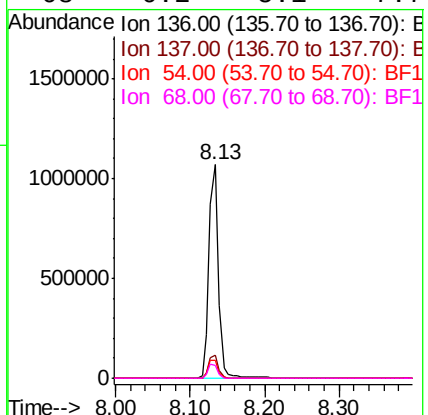
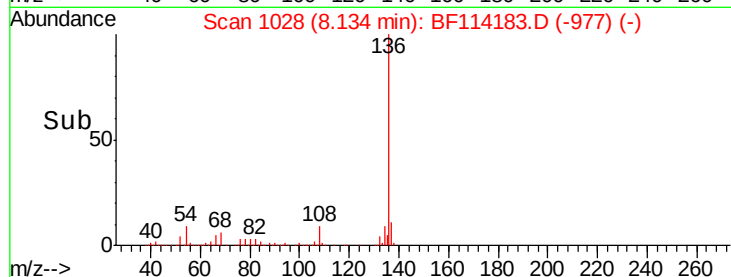
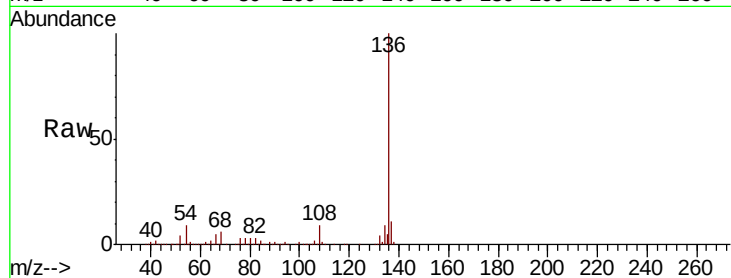




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

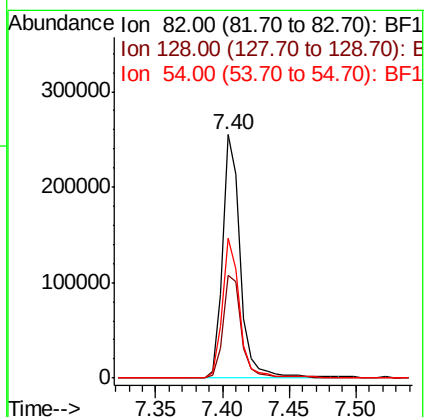
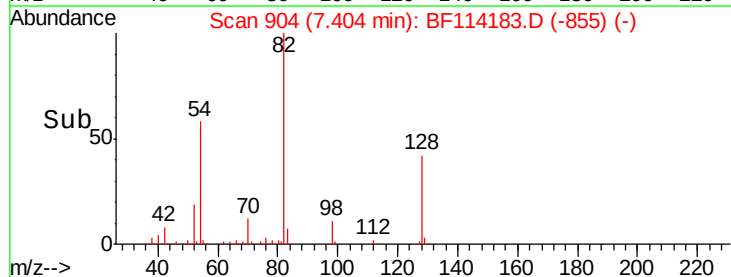
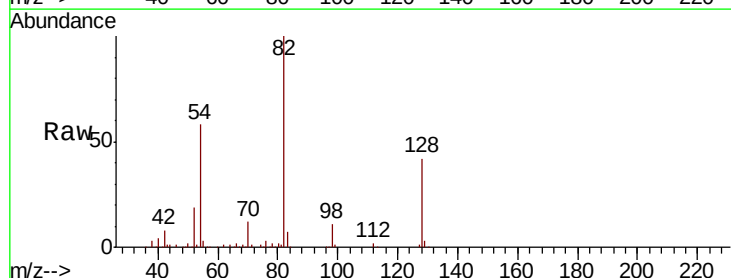
Instrument :
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P026-SS013-0002-01

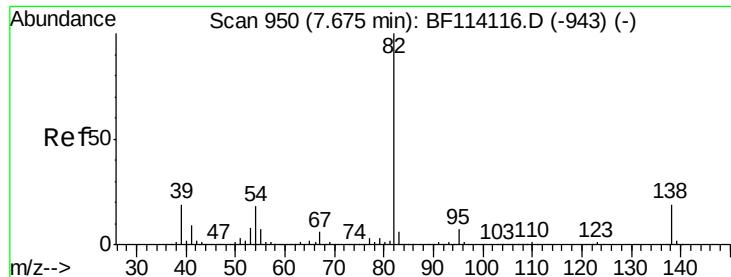
Tgt Ion:	136	Resp:	955385
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.8	13.2
54	8.5	7.8	11.8
68	6.2	5.1	7.7



#23
Nitrobenzene-d5
Concen: 14.197 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

Tgt Ion:	82	Resp:	241684
Ion Ratio	Lower	Upper	
82	100		
128	42.3	35.5	53.3
54	57.7	48.5	72.7





#25

Isophorone

Concen: 7.589 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0002-01

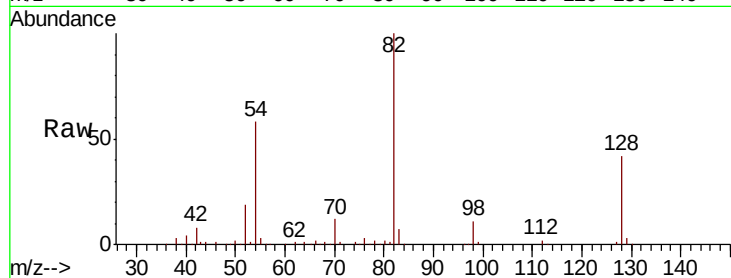
Tgt Ion: 82 Resp: 239613

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

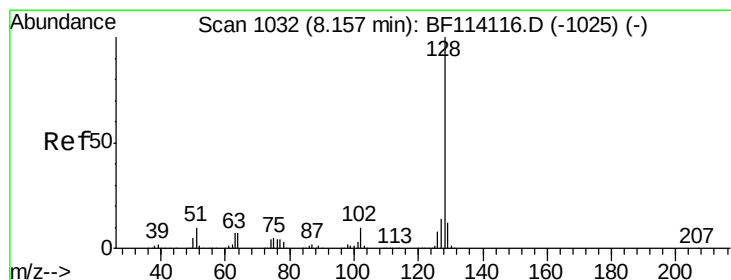
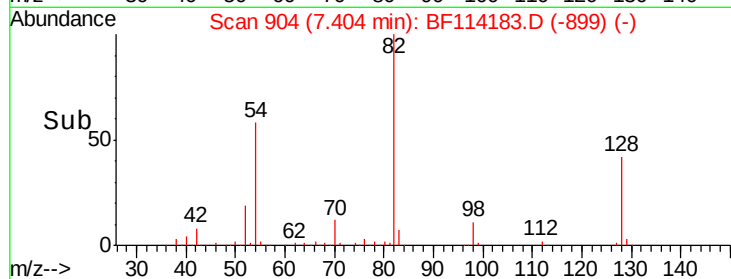
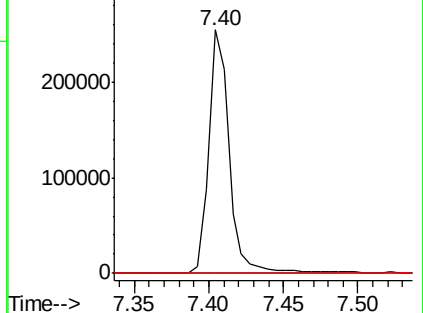
138 0.0 14.8 22.2#



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: 2.513 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

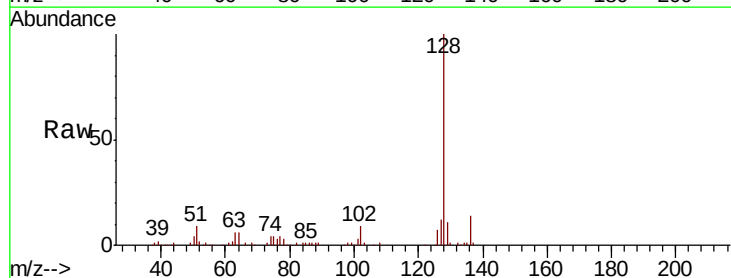
Tgt Ion: 128 Resp: 112166

Ion Ratio Lower Upper

128 100

129 10.6 9.6 14.4

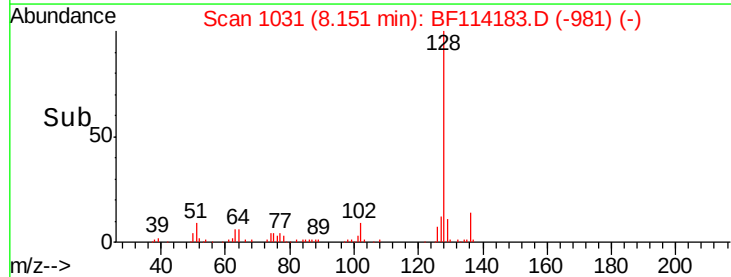
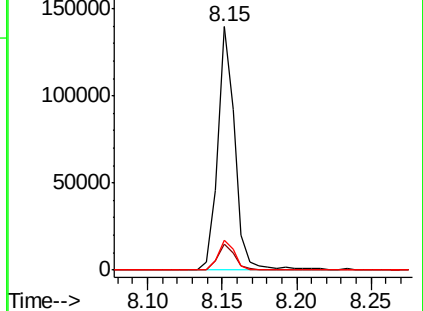
127 12.4 11.3 16.9

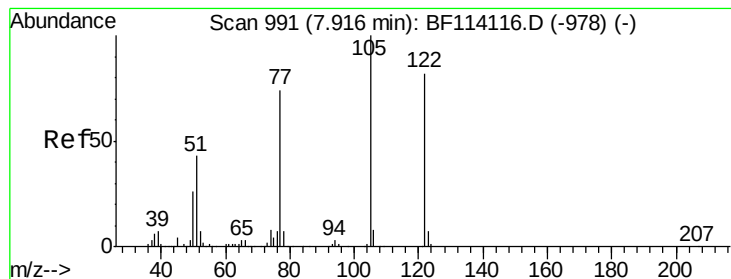


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 7.088 ng

RT: 7.92 min Scan# 992

Delta R.T. 0.01 min

Lab File: BF114183.D

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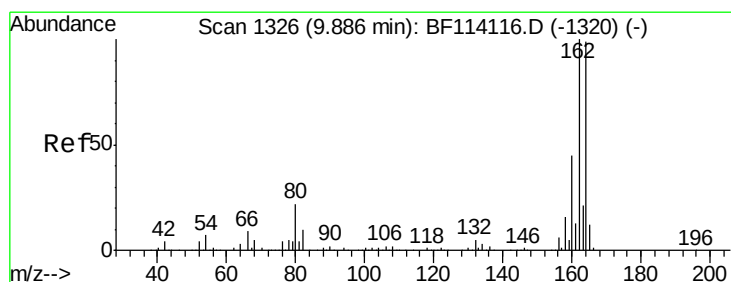
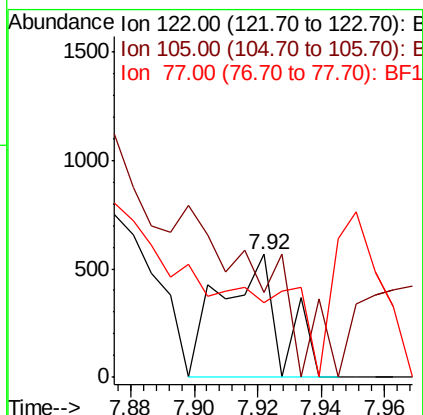
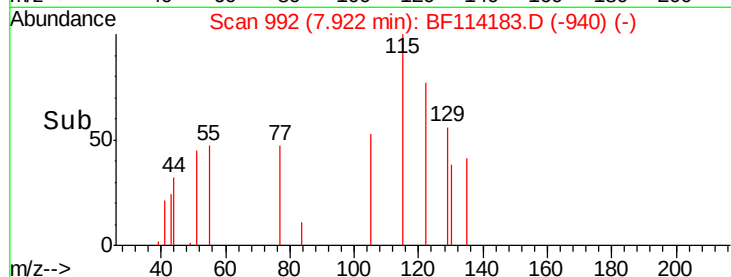
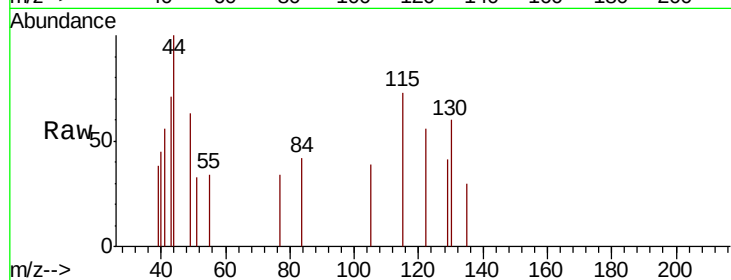
Tgt Ion:122 Resp: 744

Ion Ratio Lower Upper

122 100

105 69.0 99.9 139.9#

77 60.8 69.4 109.4#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.89 min Scan# 1326

Delta R.T. 0.00 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

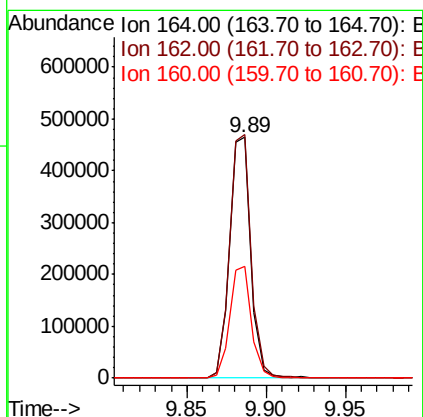
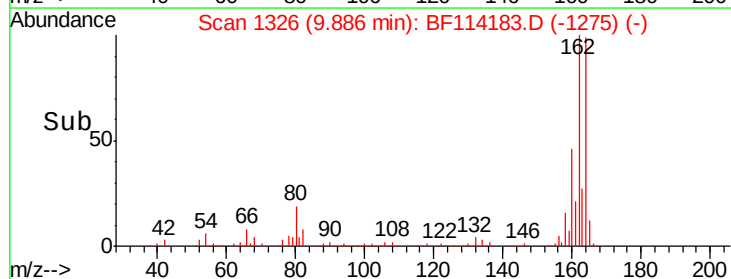
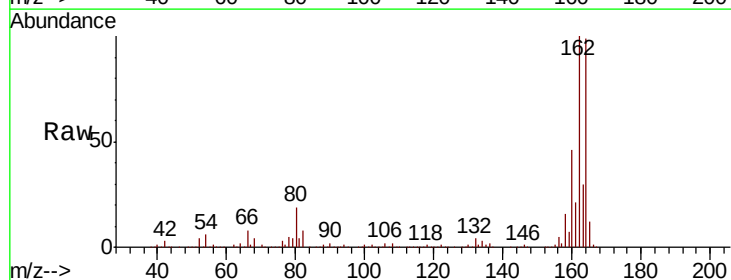
Tgt Ion:164 Resp: 430749

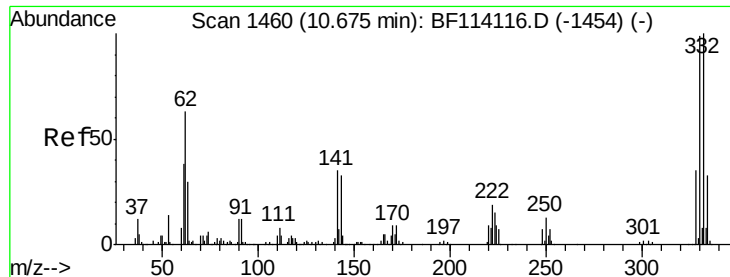
Ion Ratio Lower Upper

164 100

162 101.1 80.6 120.8

160 46.4 36.5 54.7





#42

2,4,6-Tribromophenol

Concen: 18.534 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF114183.D

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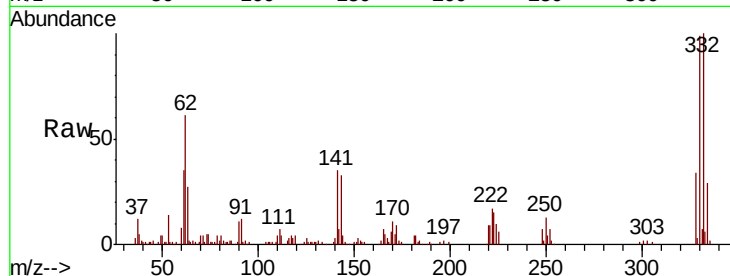
Tgt Ion:330 Resp: 82536

Ion Ratio Lower Upper

330 100

332 101.5 81.4 122.2

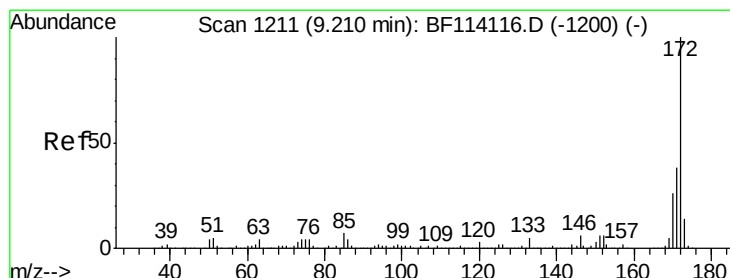
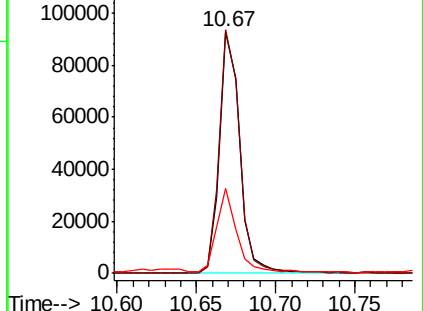
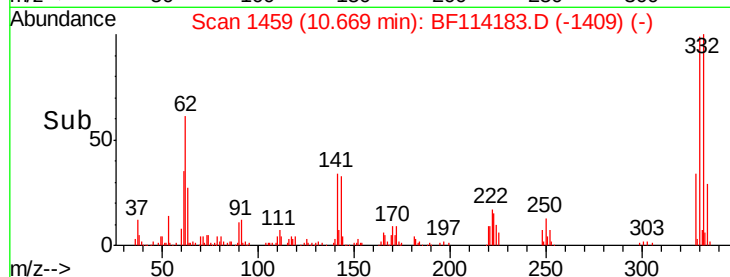
141 34.7 26.6 40.0



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: 13.620 ng

RT: 9.20 min Scan# 1210

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

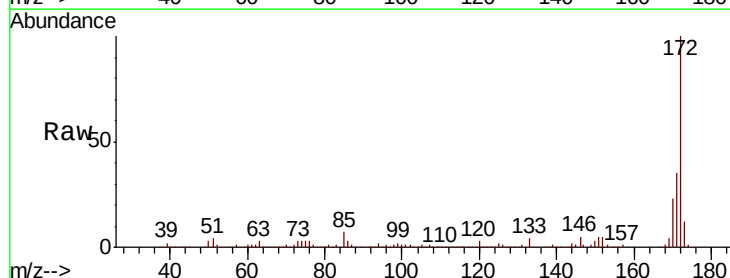
Tgt Ion:172 Resp: 387850

Ion Ratio Lower Upper

172 100

171 35.2 30.7 46.1

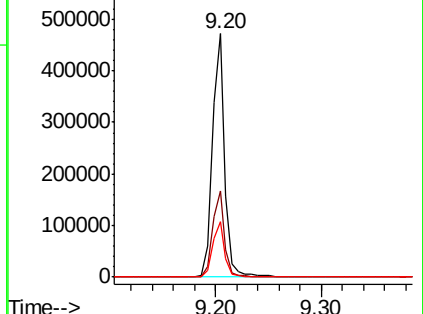
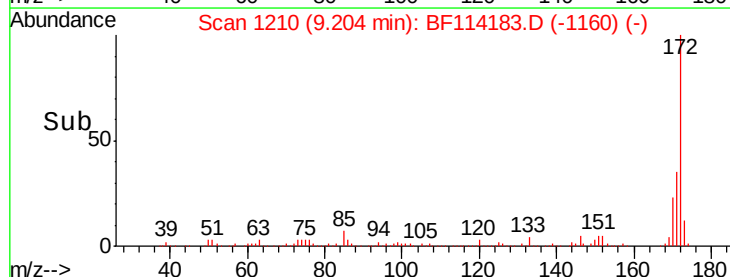
170 22.6 20.5 30.7

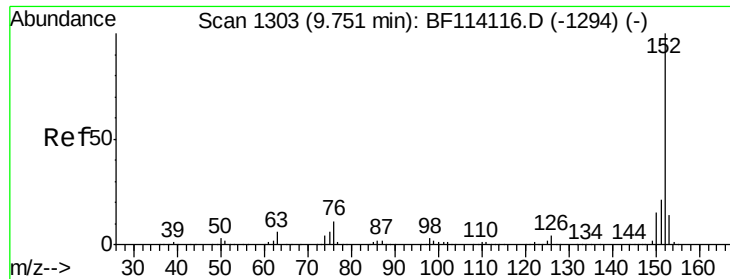


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 3.818 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

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P026-SS013-0002-01

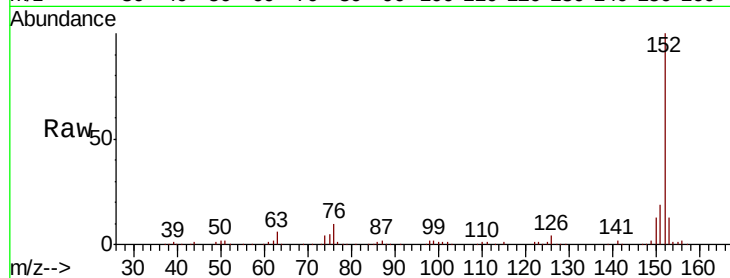
Tgt Ion:152 Resp: 162620

Ion Ratio Lower Upper

152 100

151 19.3 16.8 25.2

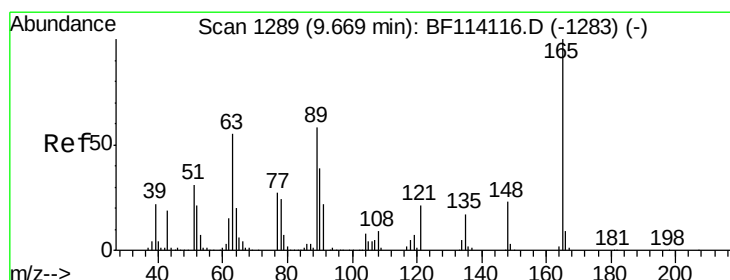
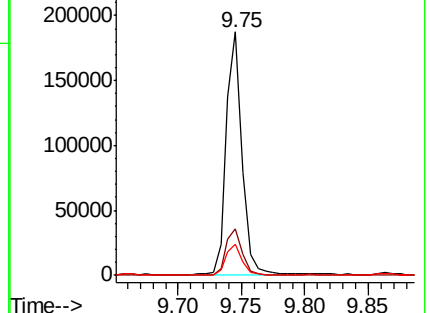
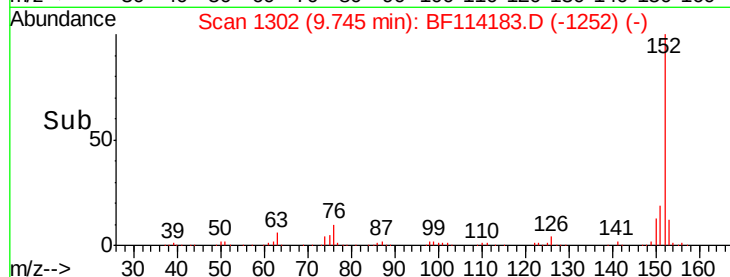
153 12.7 11.4 17.2



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



#51

2,6-Dinitrotoluene

Concen: 8.104 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.21 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

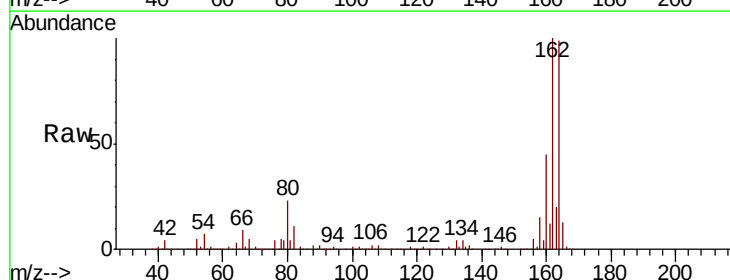
Tgt Ion:165 Resp: 56839

Ion Ratio Lower Upper

165 100

63 1.7 50.2 75.4#

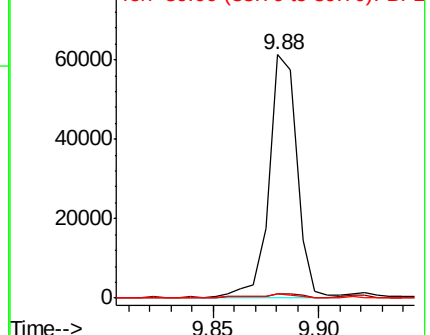
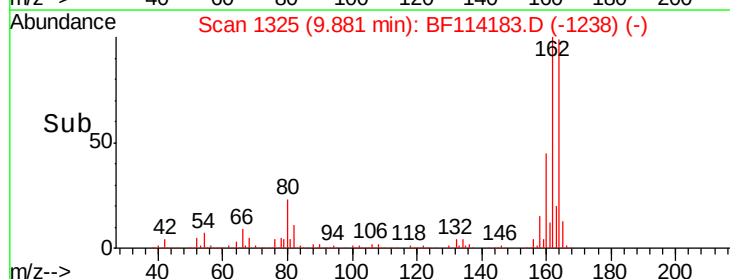
89 1.5 46.6 69.8#

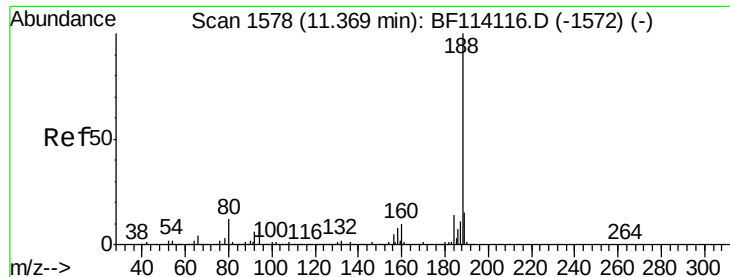


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

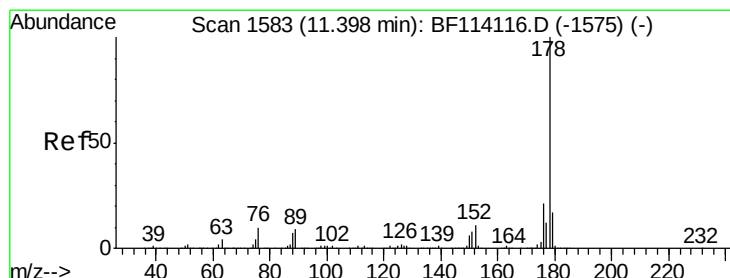
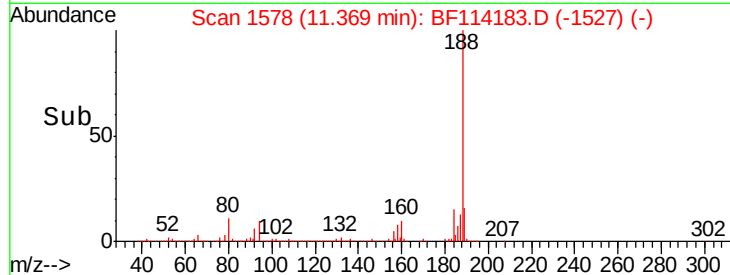
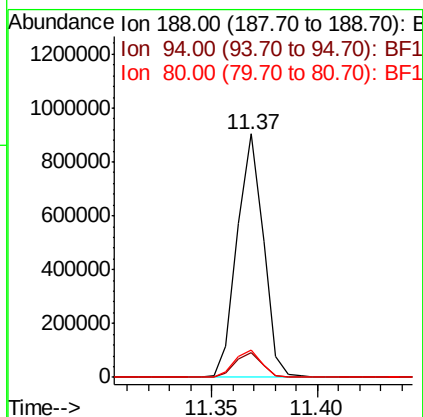
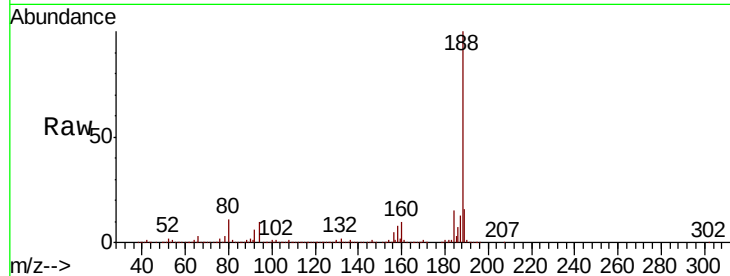




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.00 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

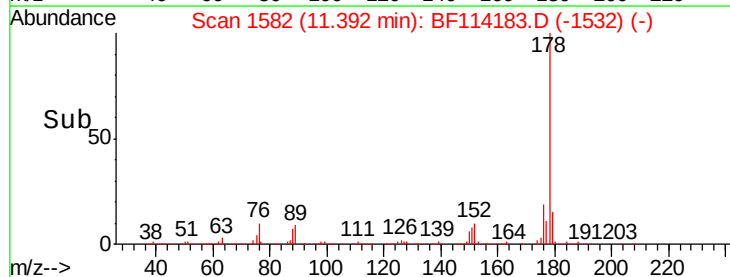
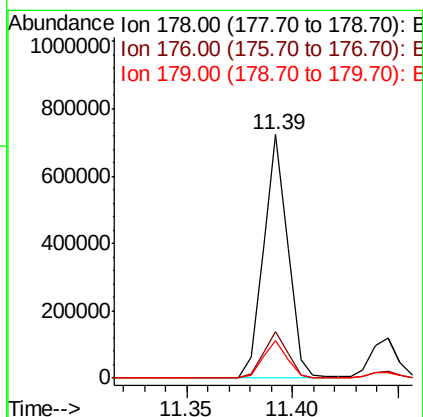
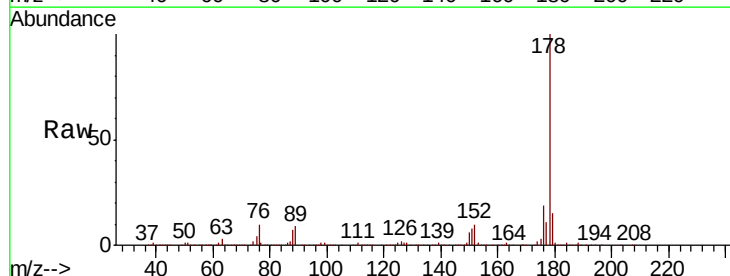
Instrument :
BNA_F
ClientSampleId :
P026-SS013-0002-01

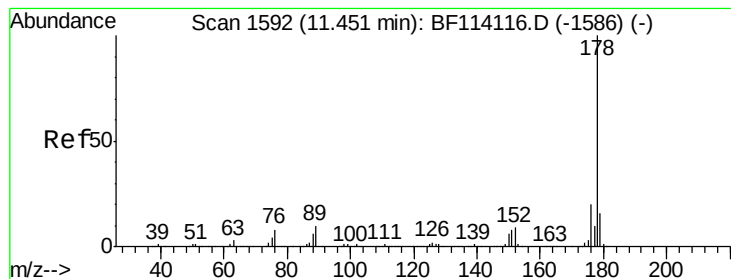
Tgt Ion:188 Resp: 776672
Ion Ratio Lower Upper
188 100
94 10.4 8.4 12.6
80 11.0 9.2 13.8



#71
Phenanthrene
Concen: 15.372 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.01 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

Tgt Ion:178 Resp: 580844
Ion Ratio Lower Upper
178 100
176 19.3 16.4 24.6
179 15.3 13.2 19.8





#72

Anthracene

Concen: 2.847 ng

RT: 11.45 min Scan# 1591

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0002-01

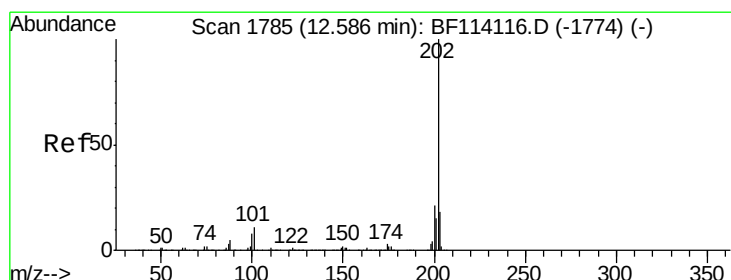
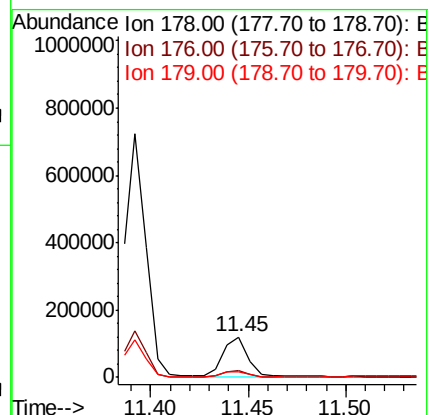
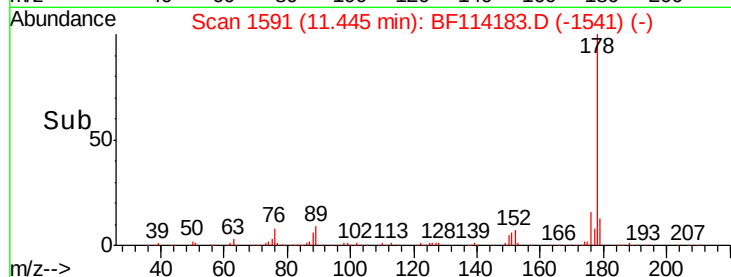
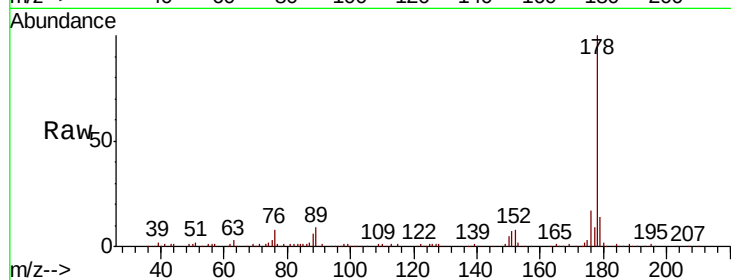
Tgt Ion:178 Resp: 108056

Ion Ratio Lower Upper

178 100

176 16.7 15.8 23.8

179 14.0 13.0 19.4



#75

Fluoranthene

Concen: 19.386 ng

RT: 12.58 min Scan# 1784

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

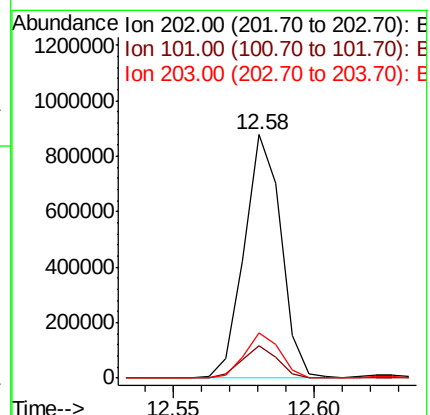
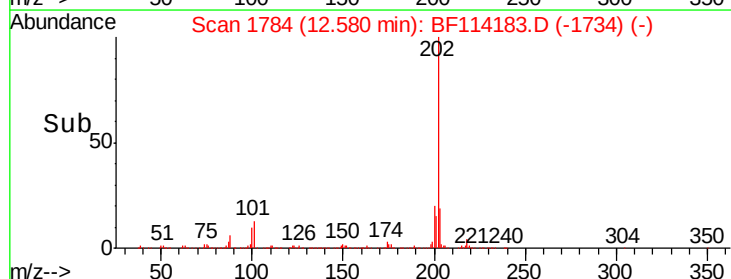
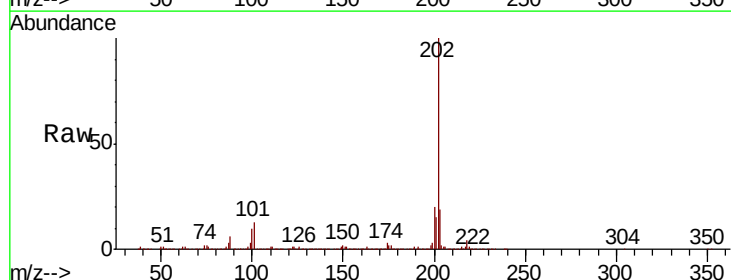
Tgt Ion:202 Resp: 788826

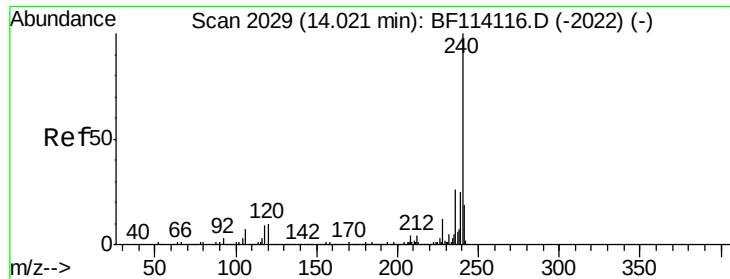
Ion Ratio Lower Upper

202 100

101 13.1 0.0 31.0

203 18.6 0.0 38.4

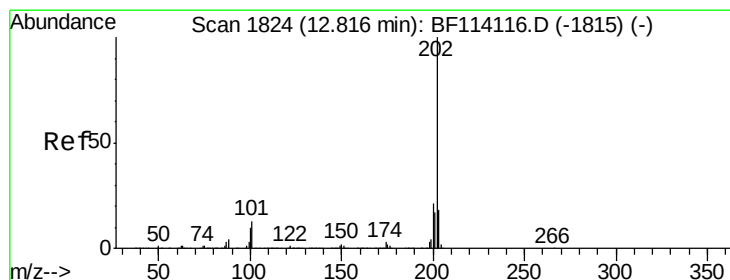
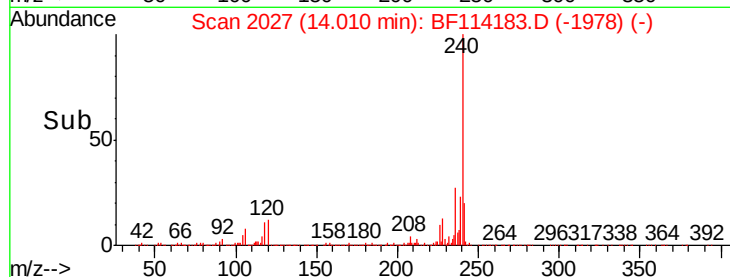
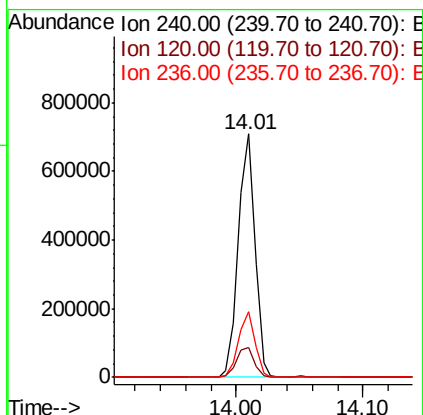
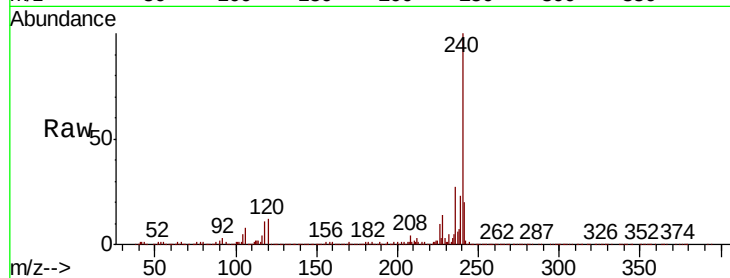




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

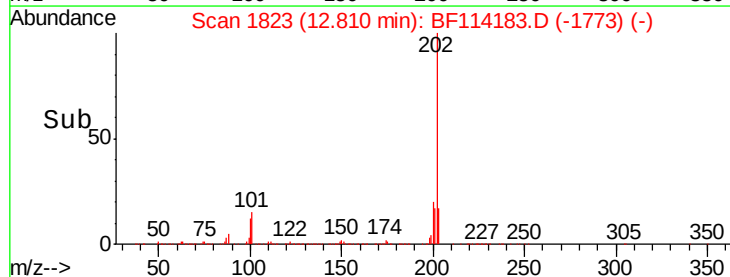
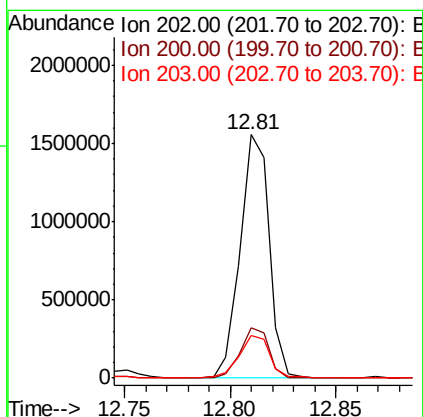
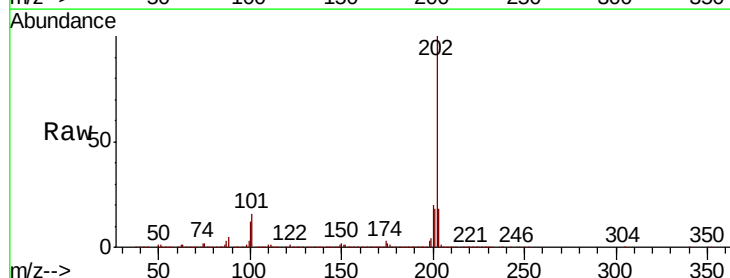
Instrument :
BNA_F
ClientSampleId :
P026-SS013-0002-01

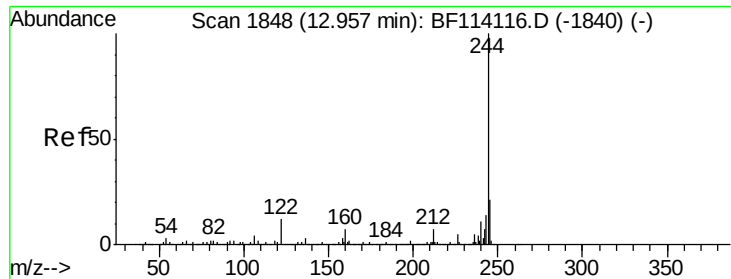
Tgt Ion:240 Resp: 636988
Ion Ratio Lower Upper
240 100
120 12.4 8.3 12.5
236 26.8 20.8 31.2



#78
Pyrene
Concen: 28.772 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

Tgt Ion:202 Resp: 1474341
Ion Ratio Lower Upper
202 100
200 20.4 16.9 25.3
203 17.7 14.5 21.7





#79

Terphenyl-d14

Concen: 9.666 ng

RT: 12.95 min Scan# 1846

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0002-01

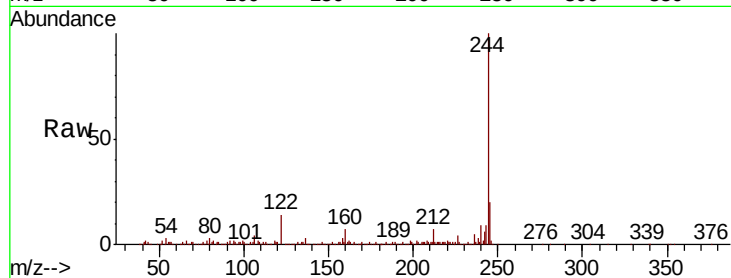
Tgt Ion:244 Resp: 298668

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.6

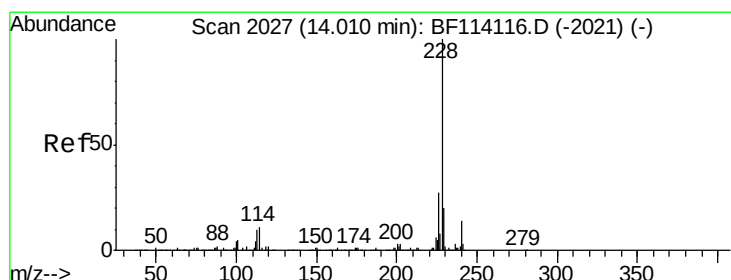
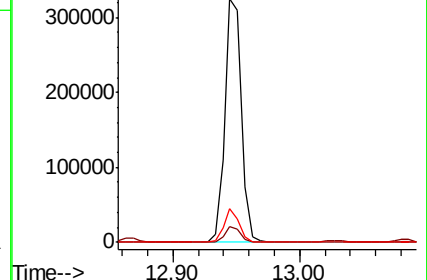
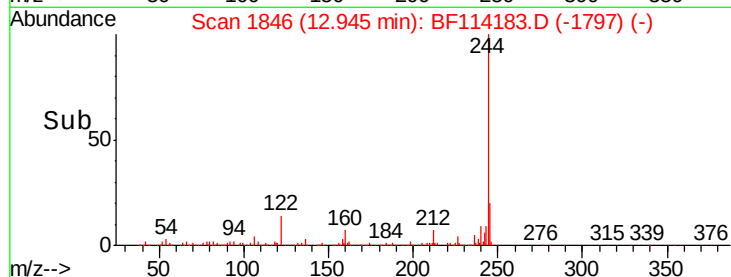
122 14.0 9.4 14.2



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: 14.347 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.02 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

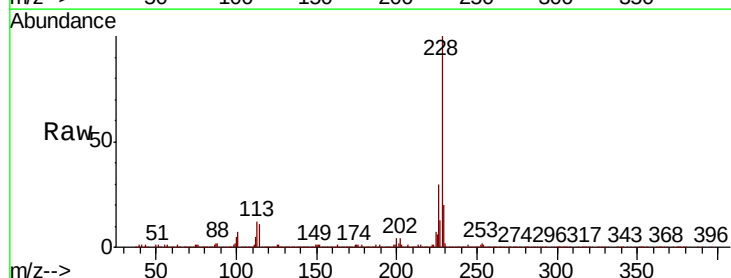
Tgt Ion:228 Resp: 591088

Ion Ratio Lower Upper

228 100

226 29.5 22.2 33.2

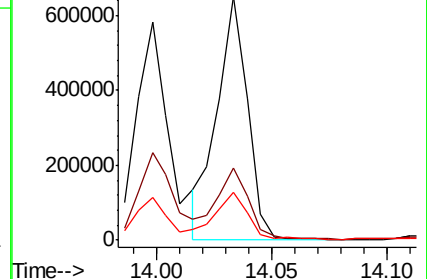
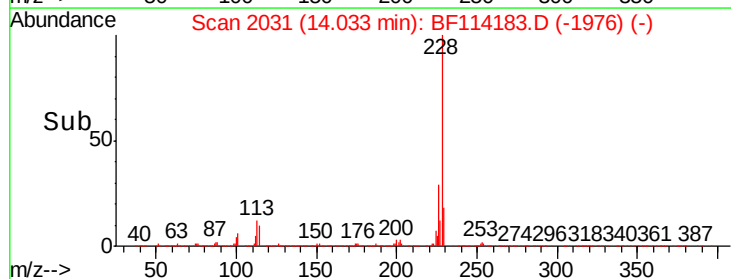
229 19.7 16.4 24.6

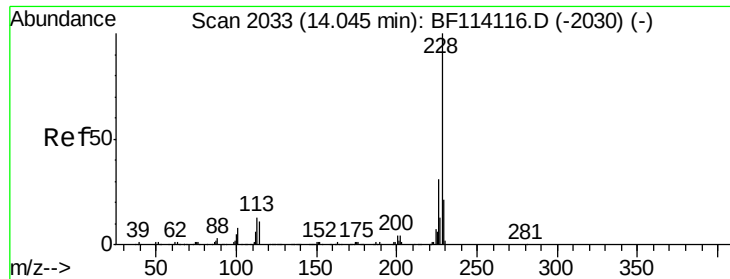


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 14.635 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0002-01

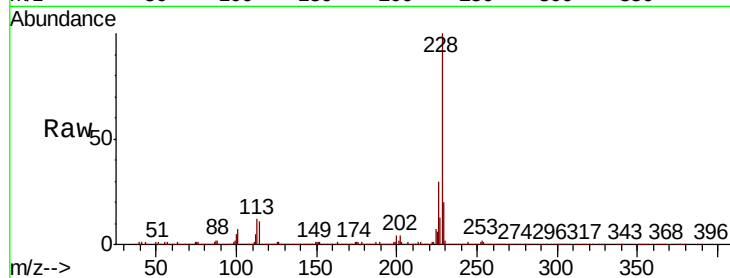
Tgt Ion: 228 Resp: 591088

Ion Ratio Lower Upper

228 100

226 29.5 25.0 37.6

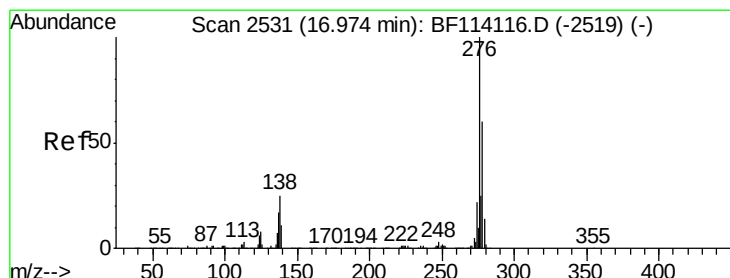
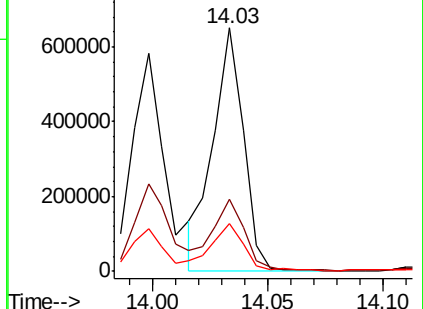
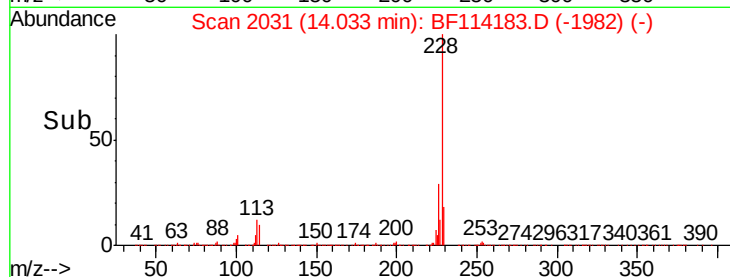
229 19.7 17.0 25.6



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: 6.469 ng

RT: 16.93 min Scan# 2524

Delta R.T. -0.04 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

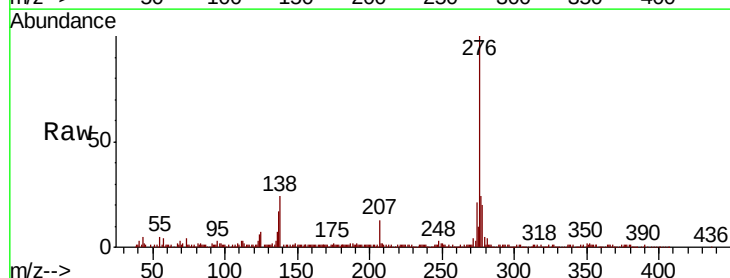
Tgt Ion: 276 Resp: 230888

Ion Ratio Lower Upper

276 100

138 24.3 20.2 30.2

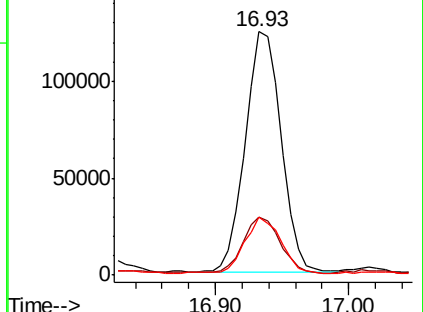
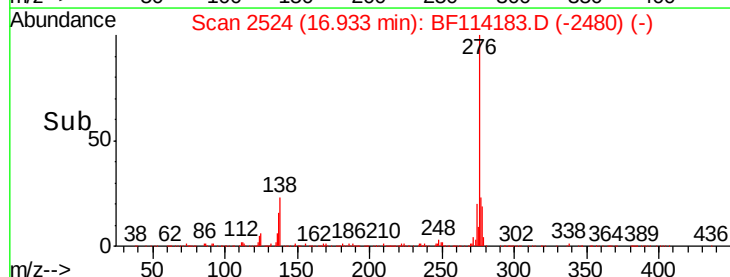
277 23.8 20.0 30.0

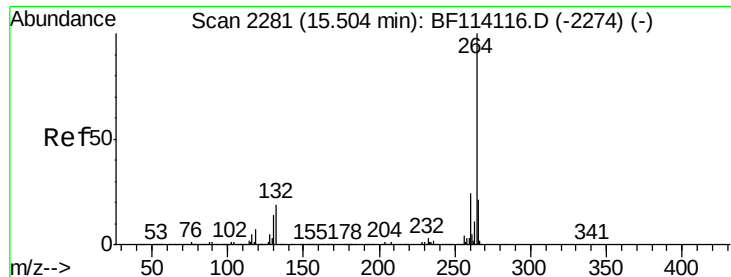


Abundance Ion 276.00 (275.70 to 276.70): E

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: 15.47 min Scan# 2276

Delta R.T. -0.03 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

Instrument :

BNA_F

ClientSampleId :

P026-SS013-0002-01

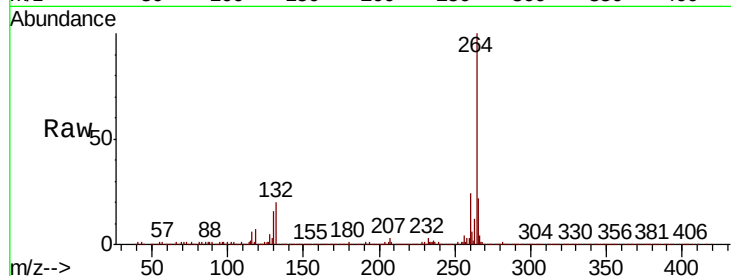
Tgt Ion:264 Resp: 654703

Ion Ratio Lower Upper

264 100

260 24.1 19.4 29.0

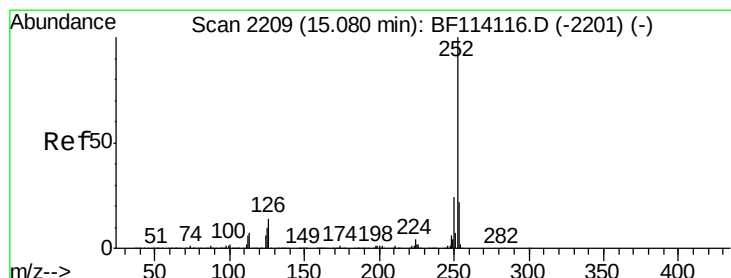
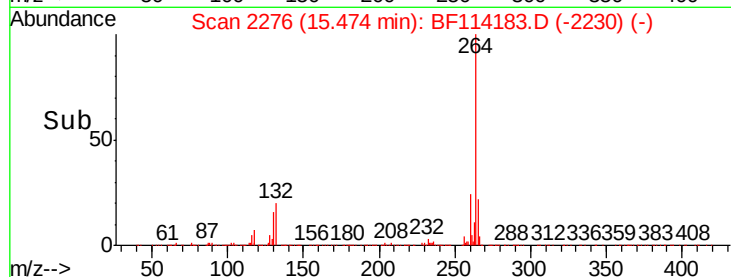
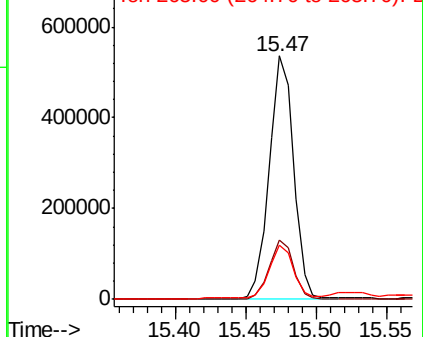
265 22.4 16.9 25.3



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: 18.663 ng

RT: 15.05 min Scan# 2204

Delta R.T. -0.03 min

Lab File: BF114183.D

Acq: 12 May 2019 4:49

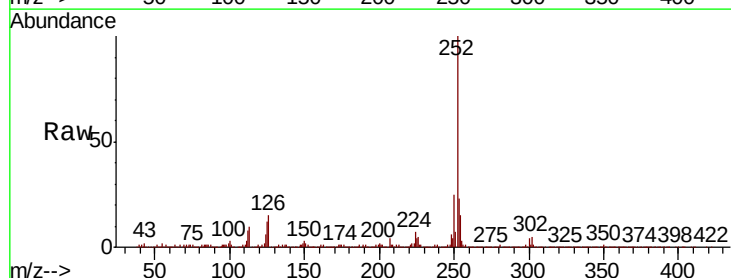
Tgt Ion:252 Resp: 782815

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.8

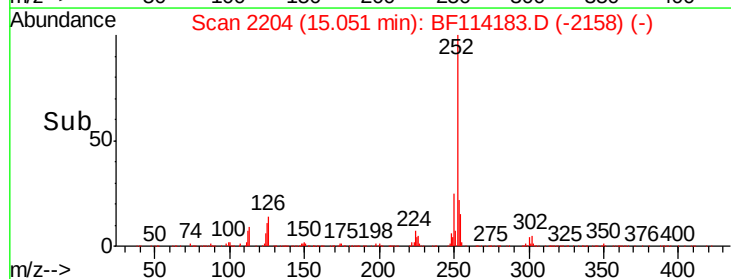
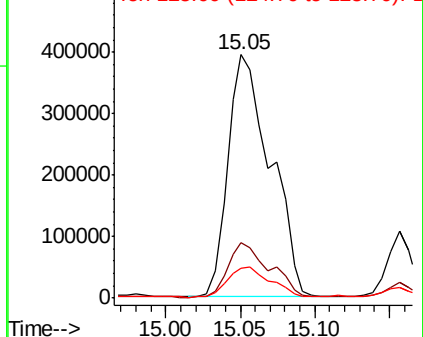
125 12.0 8.3 12.5

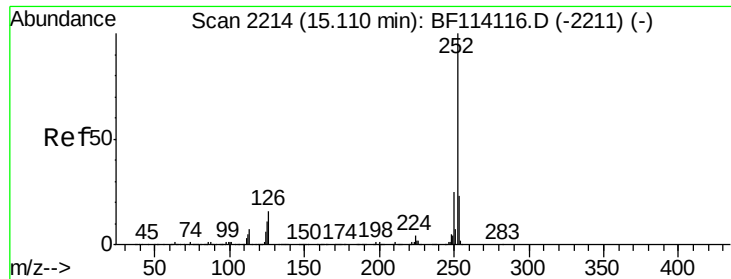


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

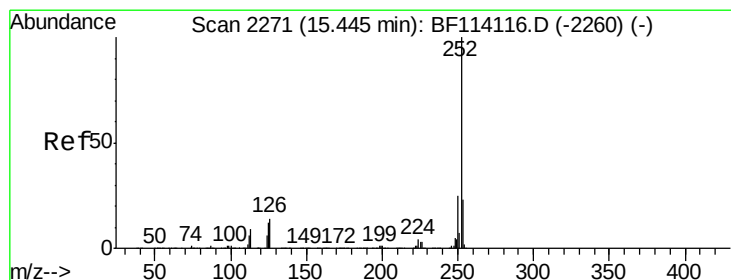
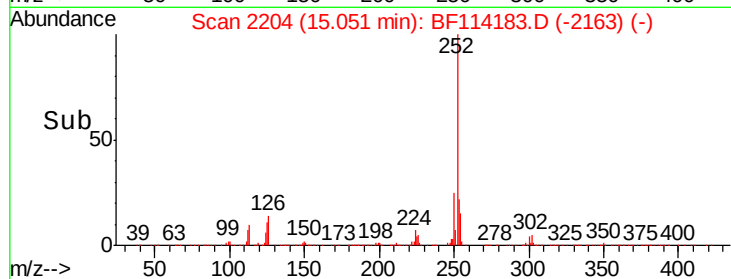
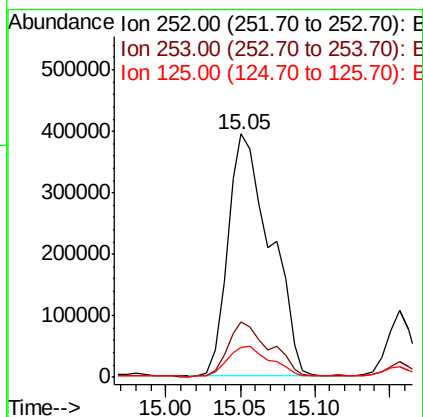
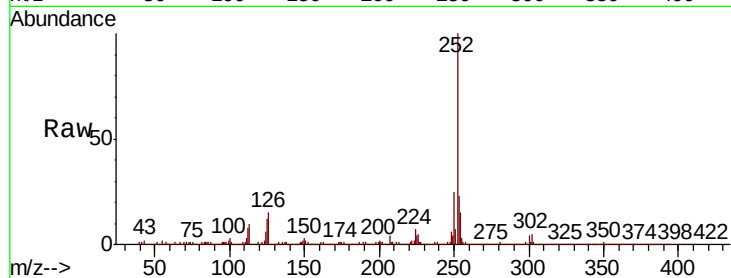




#89
Benzo(k)fluoranthene
Concen: 20.317 ng
RT: 15.05 min Scan# 2204
Delta R.T. -0.06 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

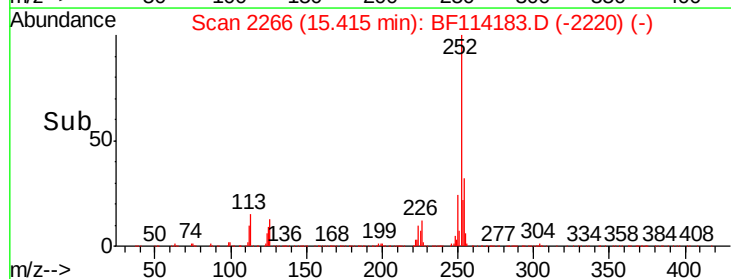
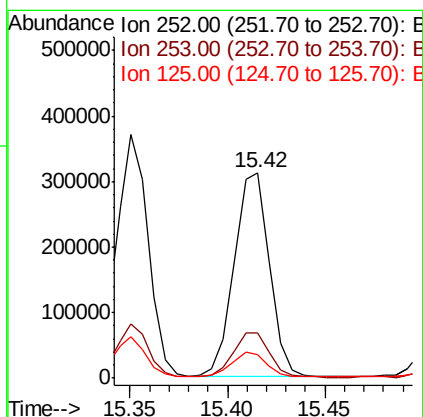
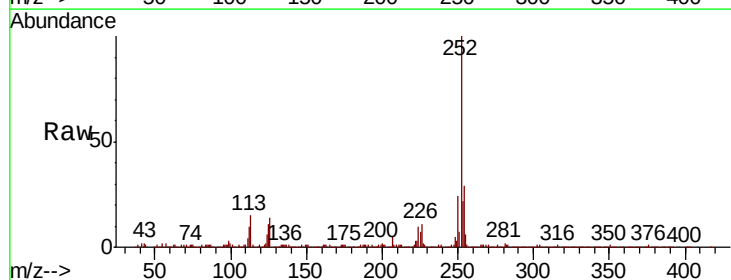
Instrument :
BNA_F
ClientSampleId :
P026-SS013-0002-01

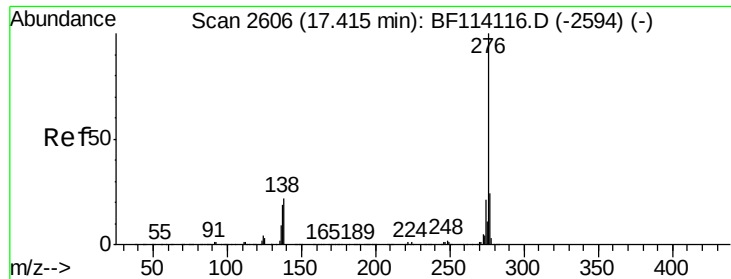
Tgt Ion: 252 Resp: 782815
Ion Ratio Lower Upper
252 100
253 22.6 18.2 27.2
125 12.0 8.6 13.0



#90
Benzo(a)pyrene
Concen: 10.557 ng
RT: 15.42 min Scan# 2266
Delta R.T. -0.03 min
Lab File: BF114183.D
Acq: 12 May 2019 4:49

Tgt Ion: 252 Resp: 389702
Ion Ratio Lower Upper
252 100
253 21.8 18.1 27.1
125 11.4 9.5 14.3

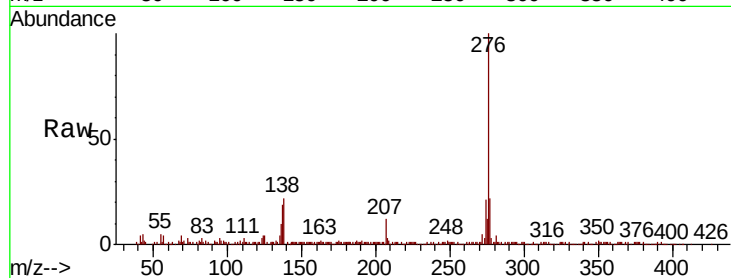




#92
 Benzo(g,h,i)perylene
 Concen: 8.469 ng
 RT: 17.38 min Scan# 2600
 Delta R.T. -0.04 min
 Lab File: BF114183.D
 Acq: 12 May 2019 4:49

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS013-0002-01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	21.8	19.0	28.4
138	22.2	17.8	26.6



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

