

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\
 Data File : BF116087.D
 Acq On : 9 Aug 2019 00:18
 Operator : HP/JU
 Sample : K4154-10 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 09 09:15:31 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 07 11:13:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	119728	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	500430	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	278312	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	477908	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	297177	20.00	ng	-0.01
87) Perylene-d12	15.46	264	336348	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.46	112	324049	45.31	ng	-0.01
7) Phenol-d6	6.47	99	428619	47.50	ng	-0.02
23) Nitrobenzene-d5	7.40	82	244934	28.25	ng	-0.02
42) 2,4,6-Tribromophenol	10.66	330	95413	35.36	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	385835	25.97	ng	-0.02
79) Terphenyl-d14	12.93	244	358218	25.40	ng	-0.02

Target Compounds

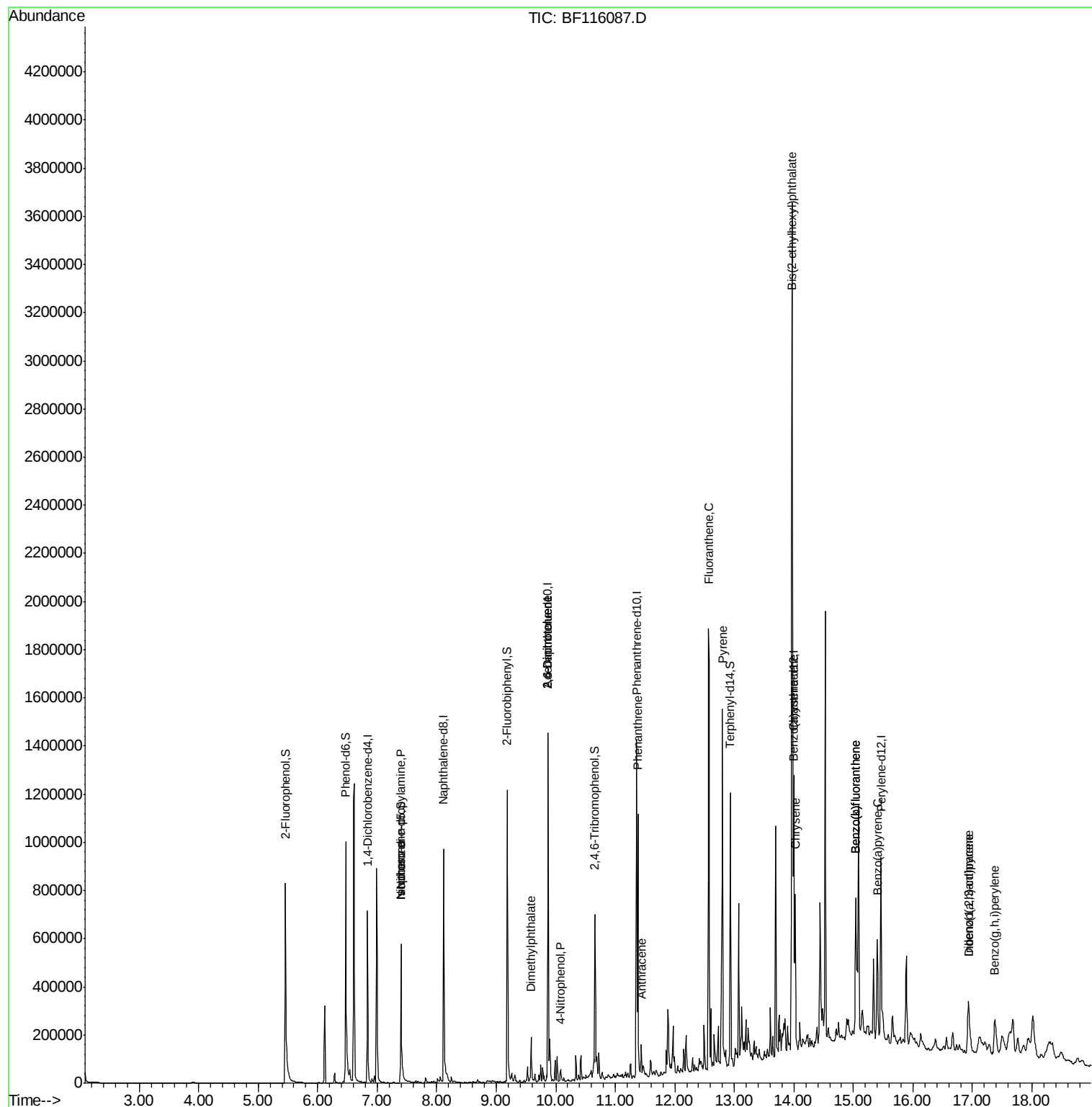
						Qvalue
19) n-Nitroso-di-n-propylamine	7.40	70	33617	6.012	ng	# 82
25) Isophorone	7.40	82	244931	14.775	ng	# 65
50) Dimethylphthalate	9.59	163	89966	4.748	ng	99
51) 2,6-Dinitrotoluene	9.87	165	36000	8.742	ng	# 29
56) 4-Nitrophenol	10.08	139	7999	2.454	ng	# 8
57) 2,4-Dinitrotoluene	9.87	165	36001	6.566	ng	# 21
71) Phenanthrene	11.38	178	391961	16.043	ng	99
72) Anthracene	11.43	178	52441	2.121	ng	98
75) Fluoranthene	12.57	202	758822	29.668	ng	97
78) Pyrene	12.80	202	612967	27.363	ng	99
81) Benzo(a)anthracene	13.99	228	246753	12.991	ng	99
83) Chrysene	14.02	228	267559	14.509	ng	99
84) Bis(2-ethylhexyl)phthalate	13.97	149	1012337	82.210	ng	98
86) Indeno(1,2,3-cd)pyrene	16.93	276	145601	9.401	ng	# 91
88) Benzo(b)fluoranthene	15.04	252	435728	22.405	ng	99
89) Benzo(k)fluoranthene	15.04	252	435728	23.003	ng	98
90) Benzo(a)pyrene	15.40	252	207902	11.959	ng	99
91) Dibenzo(a,h)anthracene	16.94	278	33507	2.227	ng	# 92
92) Benzo(a,h,i)perylene	17.37	276	128518	8.696	ng	98

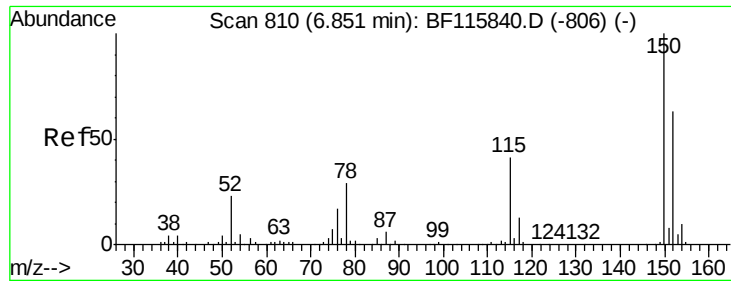
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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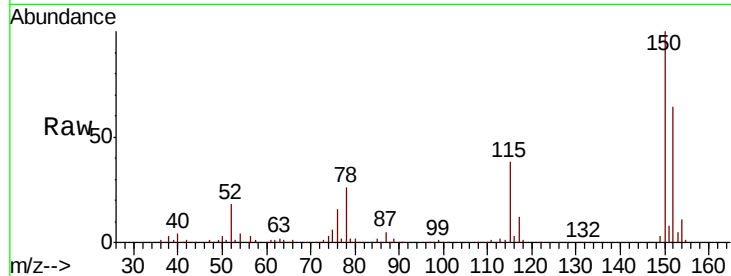


#1

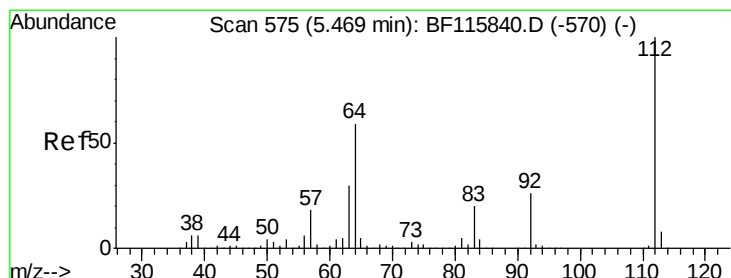
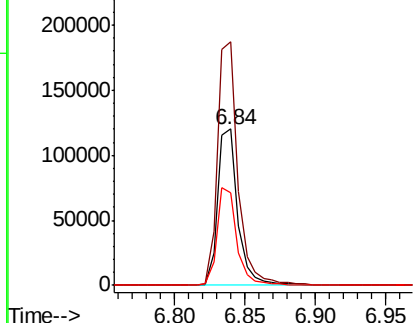
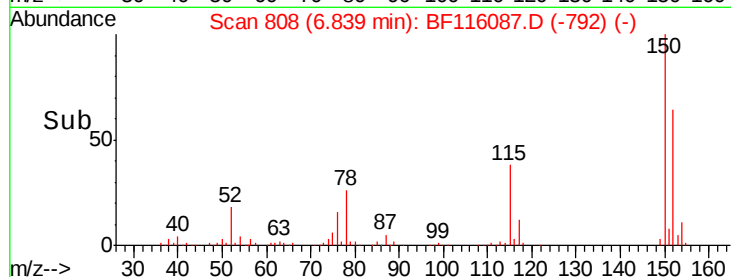
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 119728
Ion Ratio Lower Upper
152 100
150 156.1 126.2 189.2
115 59.4 49.9 74.9



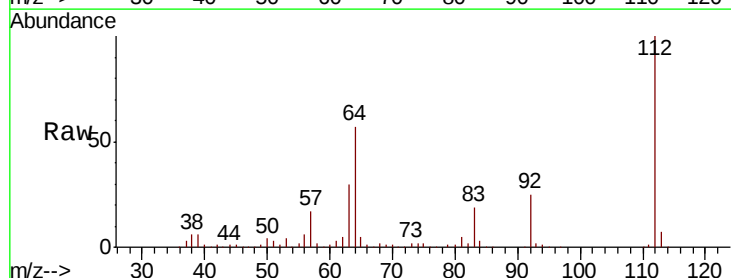
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



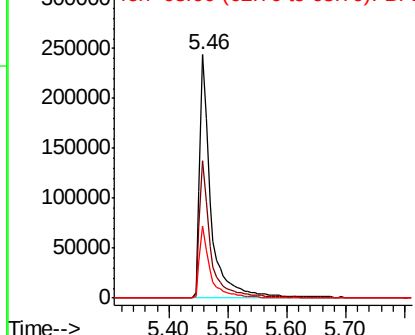
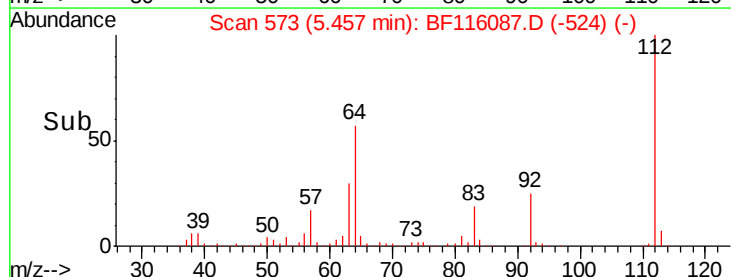
#5

2-Fluorophenol
Concen: 45.309 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Tgt Ion:112 Resp: 324049
Ion Ratio Lower Upper
112 100
64 56.5 45.4 68.2
63 29.5 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 47.501 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.02 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

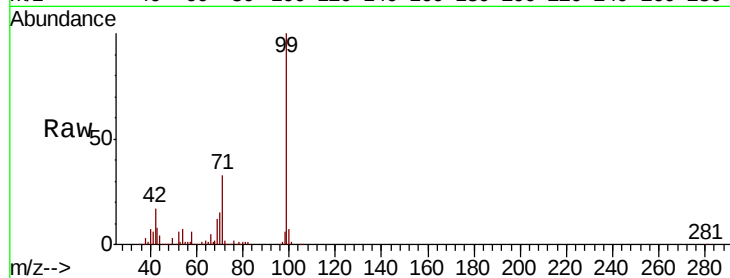
Instrument :

BNA_F

ClientSampled :

Tot Ion: 99 Resp: 428619

Ion	Ratio	Lower	Upper
99	100		
42	16.6	13.8	20.8
71	32.5	27.3	40.9

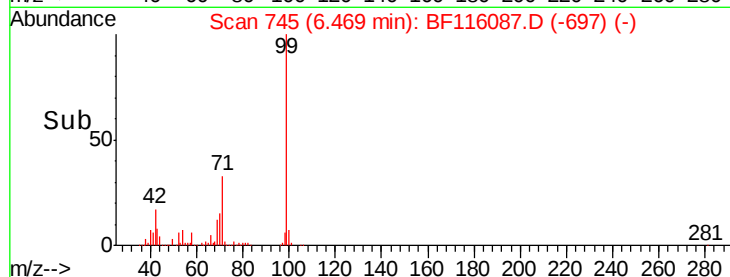
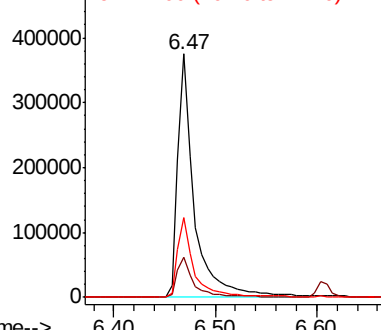


Abundance

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: 6.012 ng

RT: 7.40 min Scan# 903

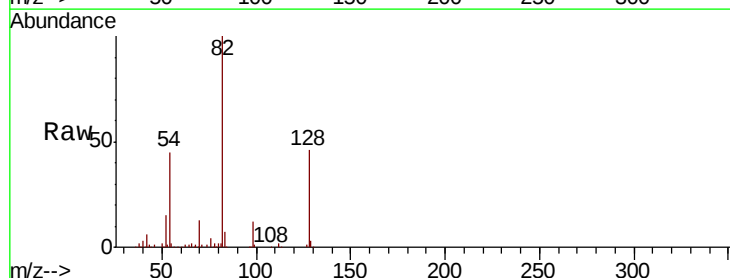
Delta R.T. 0.13 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

Tgt Ion: 70 Resp: 33617

Ion	Ratio	Lower	Upper
70	100		
42	46.0	40.9	61.3
101	0.0	7.9	11.9#
130	2.1	16.9	25.3#



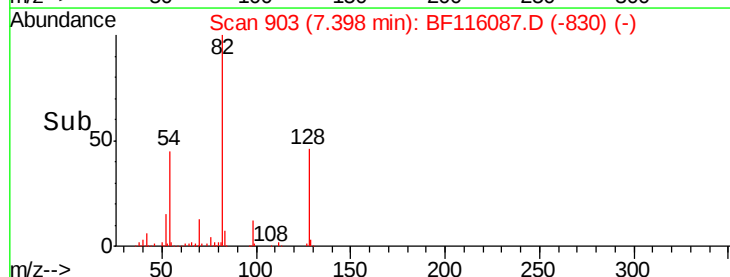
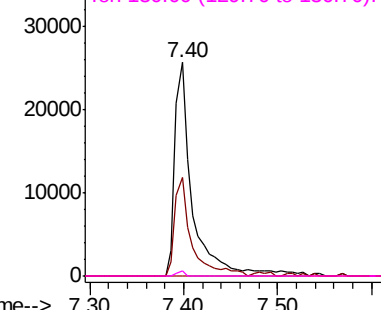
Abundance

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: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 500430

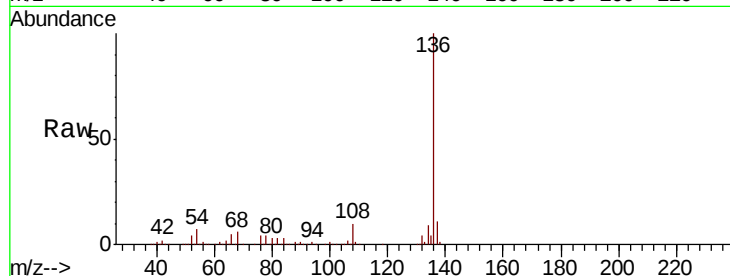
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 7.4 5.8 8.6

68 6.2 5.2 7.8

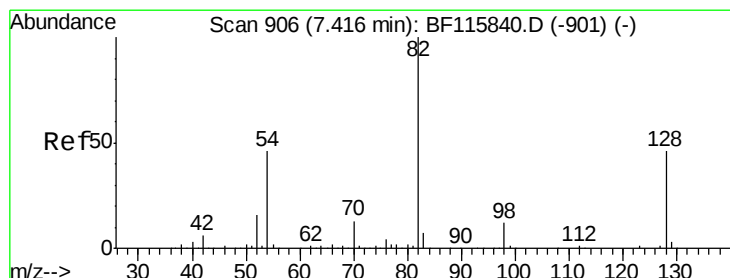
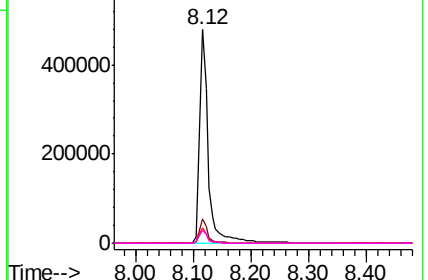
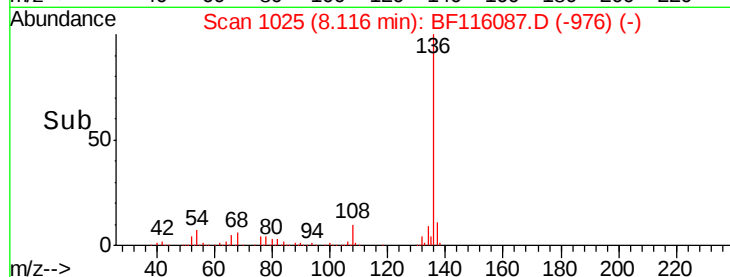


Abundance Ion 136.00 (135.70 to 136.70): E

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: 28.252 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.02 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

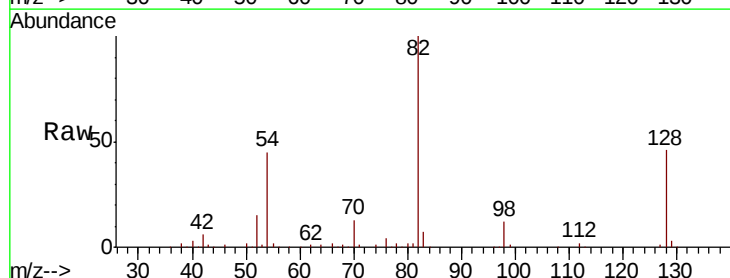
Tgt Ion: 82 Resp: 244934

Ion Ratio Lower Upper

82 100

128 45.8 36.5 54.7

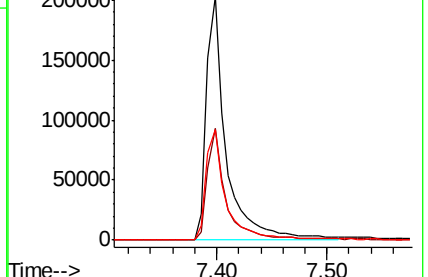
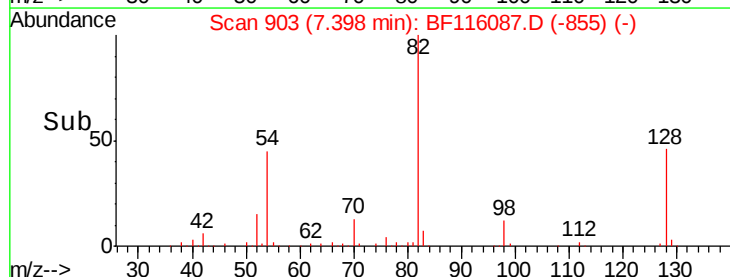
54 45.5 36.0 54.0



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: 14.775 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

Instrument :

BNA_F

ClientSampleId :

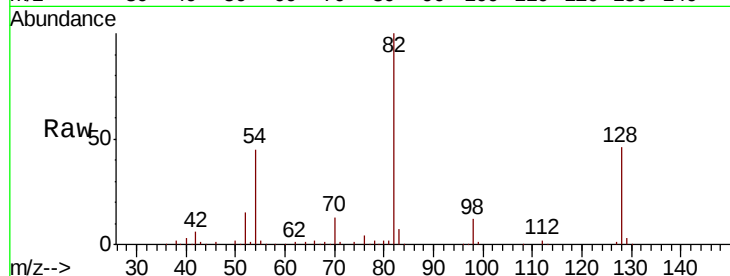
Tot Ion: 82 Resp: 244931

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

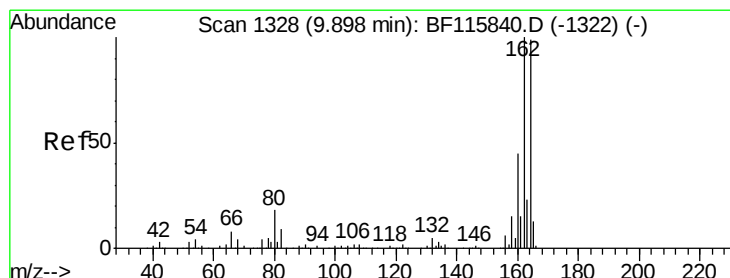
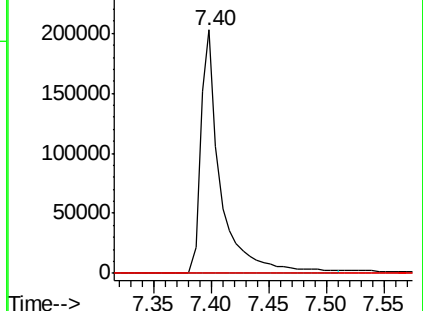
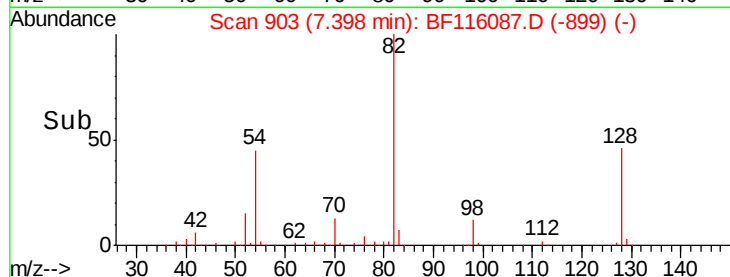
138 0.0 14.5 21.7#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

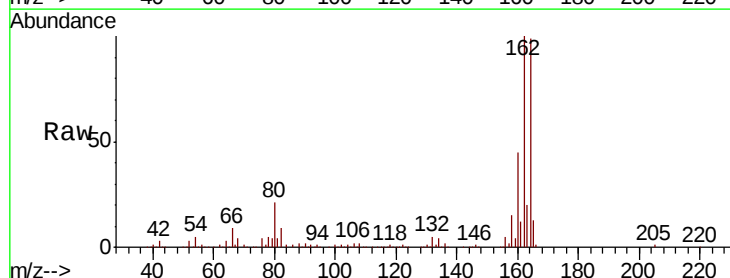
Tgt Ion:164 Resp: 278312

Ion Ratio Lower Upper

164 100

162 101.2 82.6 124.0

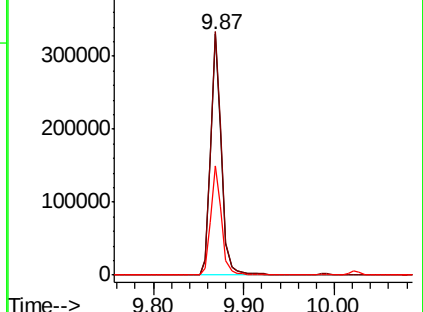
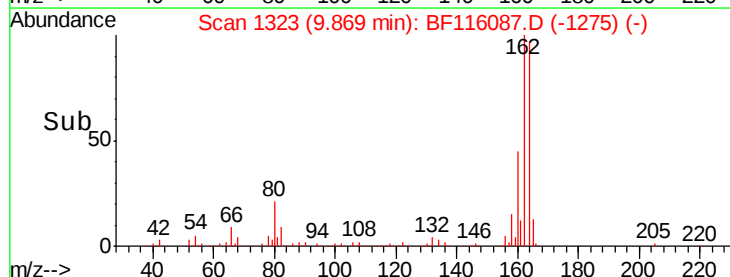
160 45.1 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 35.360 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

Instrument :

BNA_F

ClientSampleId :

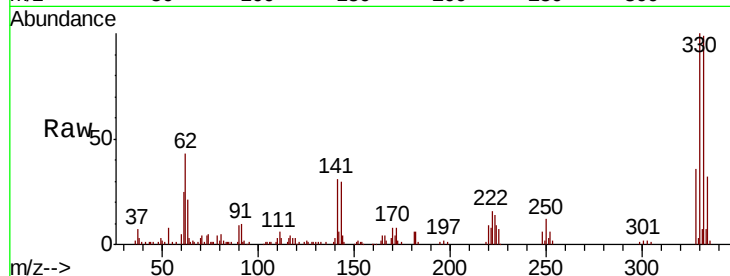
Tot Ion:330 Resp: 95413

Ion Ratio Lower Upper

330 100

332 97.8 76.8 115.2

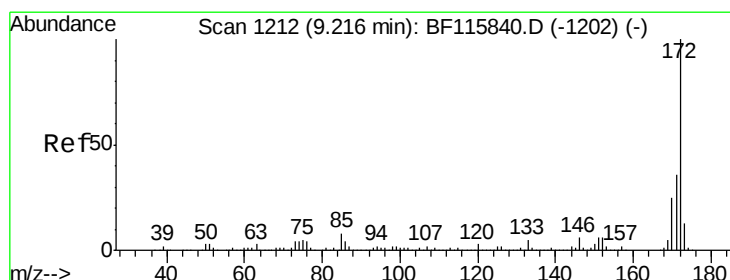
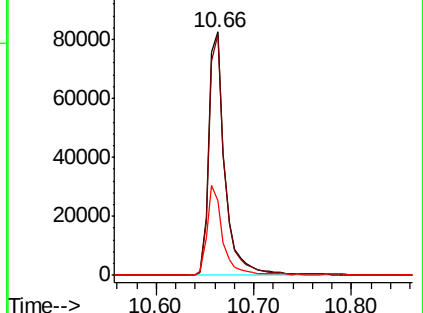
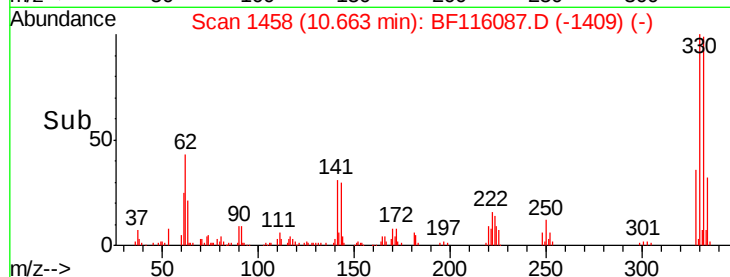
141 35.7 26.3 39.5



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 25.967 ng

RT: 9.19 min Scan# 1207

Delta R.T. -0.02 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

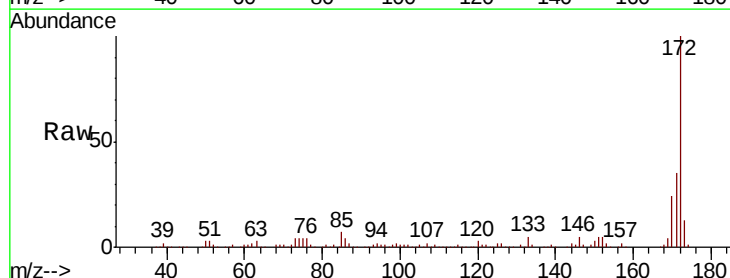
Tgt Ion:172 Resp: 385835

Ion Ratio Lower Upper

172 100

171 35.0 29.6 44.4

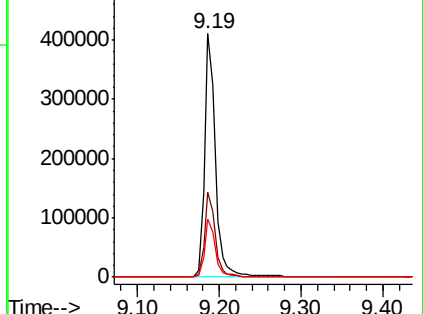
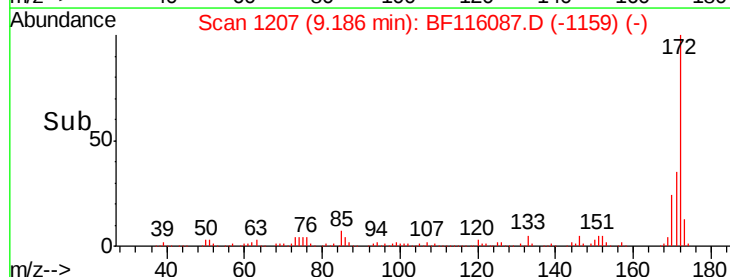
170 23.8 20.1 30.1

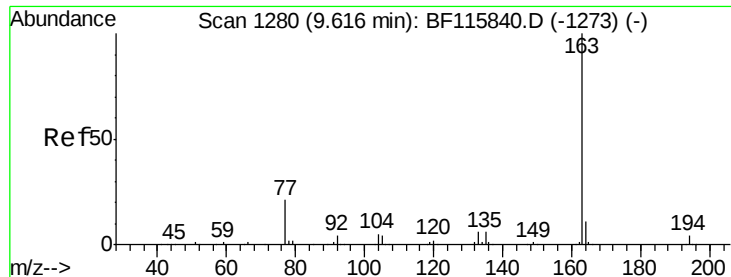


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

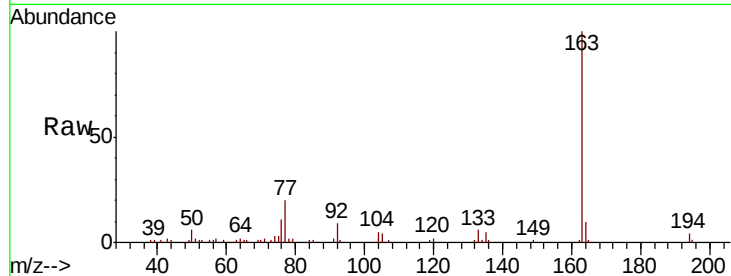




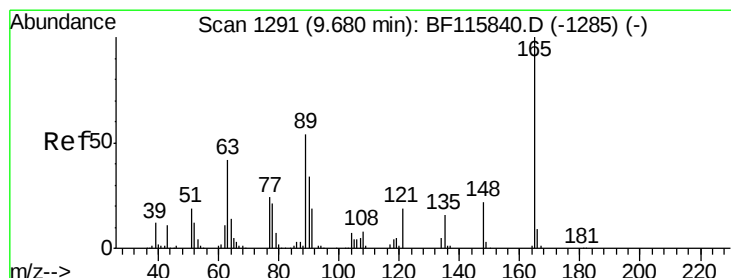
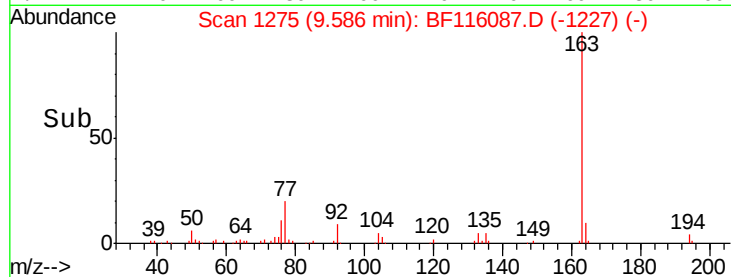
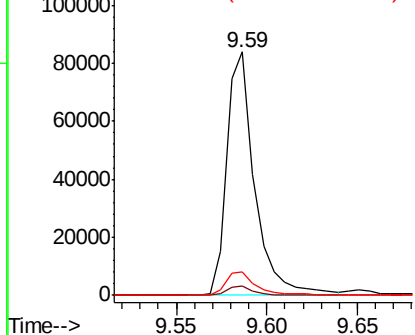
#50
Dimethylphthalate
Concen: 4.748 ng
RT: 9.59 min Scan# 1275
Delta R.T. -0.02 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Instrument :
BNA_F
ClientSampled :

Tot Ion	163	Resp	89966
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.6
164	9.8	8.4	12.6

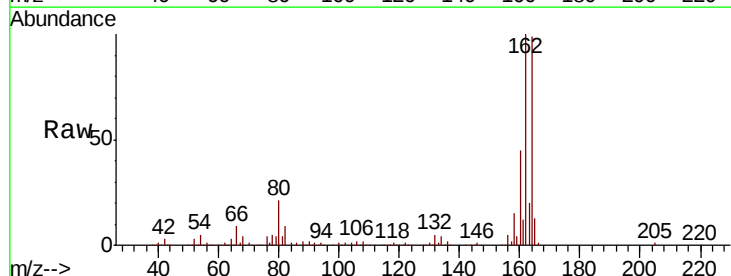


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

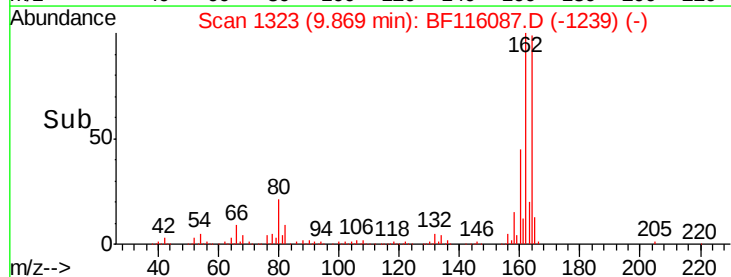
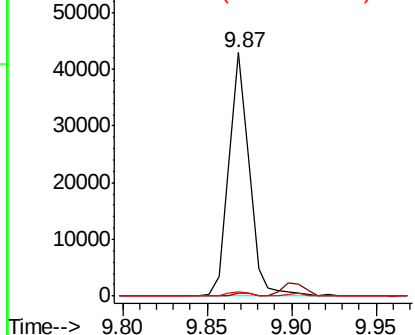


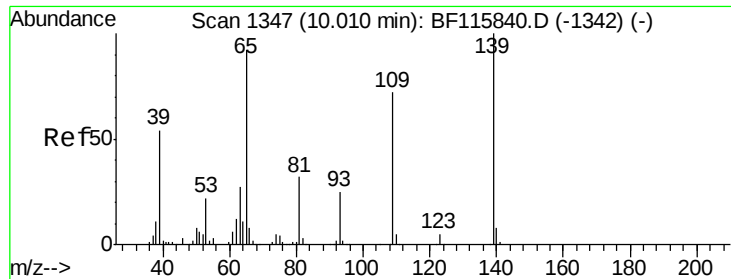
#51
2,6-Dinitrotoluene
Concen: 8.742 ng
RT: 9.87 min Scan# 1323
Delta R.T. 0.19 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Tgt Ion	165	Resp	36000
Ion Ratio	Lower	Upper	
165	100		
63	1.3	38.2	57.2#
89	1.8	42.9	64.3#



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

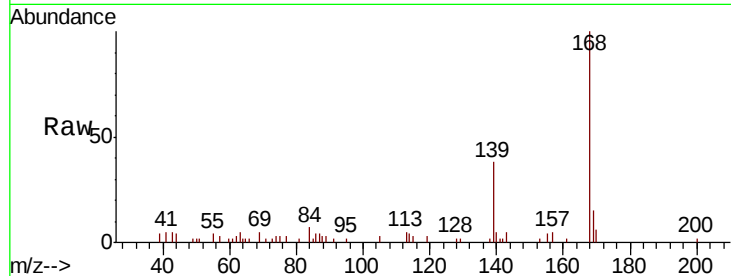




#56
4-Nitrophenol
Concen: 2.454 ng
RT: 10.08 min Scan# 1359
Delta R.T. 0.07 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	54.4	94.4#
65	4.8	80.6	120.6#

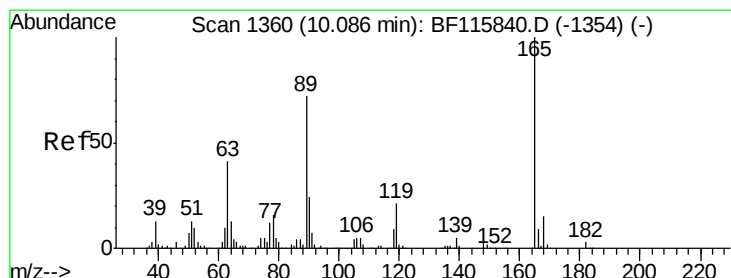
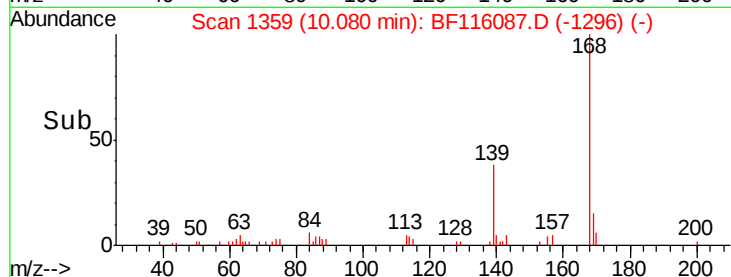
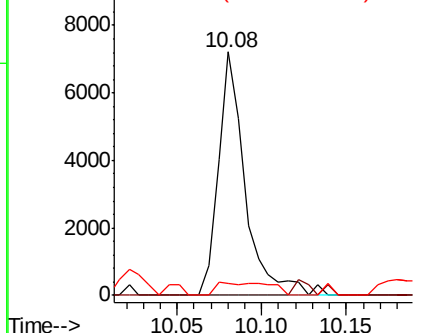


Abundance

Ion 139.00 (138.70 to 139.70): E

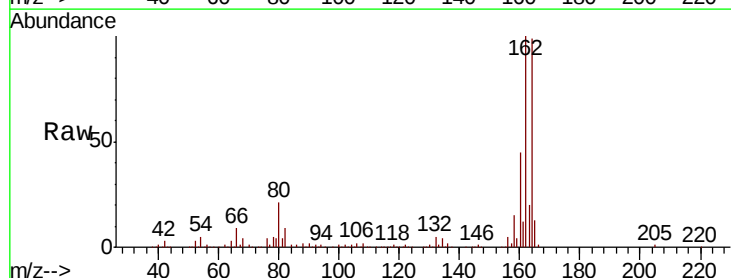
Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57
2,4-Dinitrotoluene
Concen: 6.566 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.21 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.3	39.6	59.4#
89	1.8	62.2	93.2#
182	0.0	2.1	3.1#



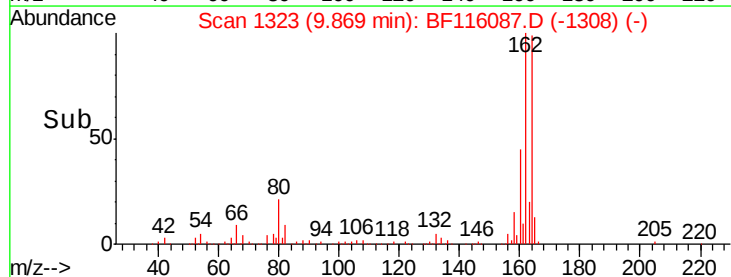
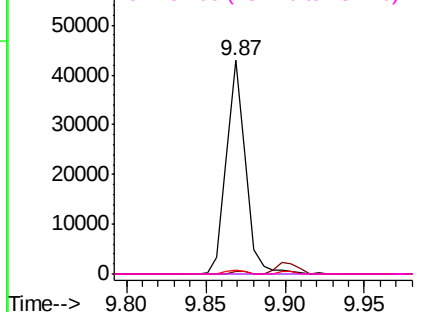
Abundance

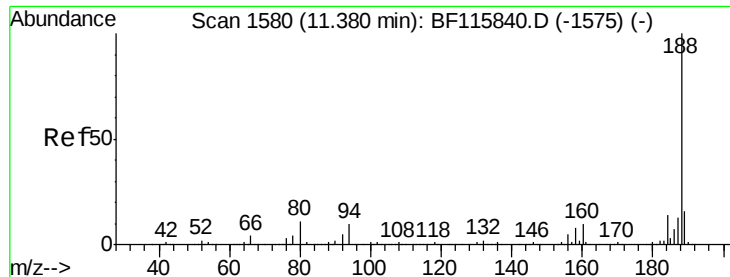
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

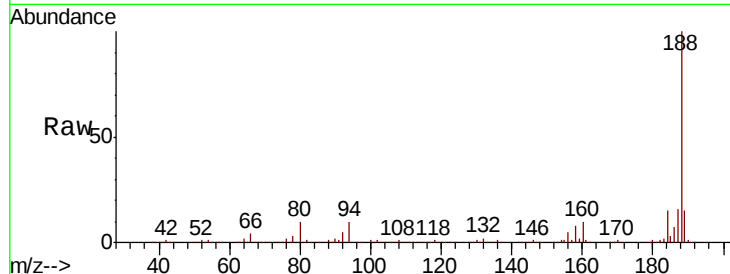




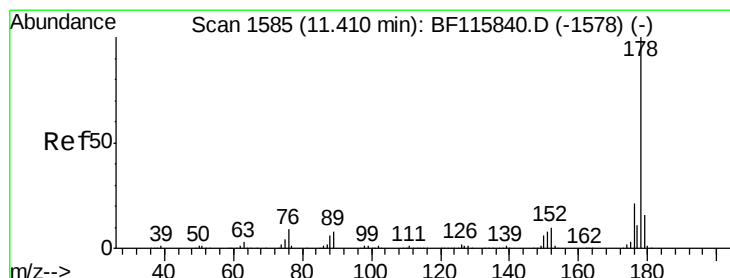
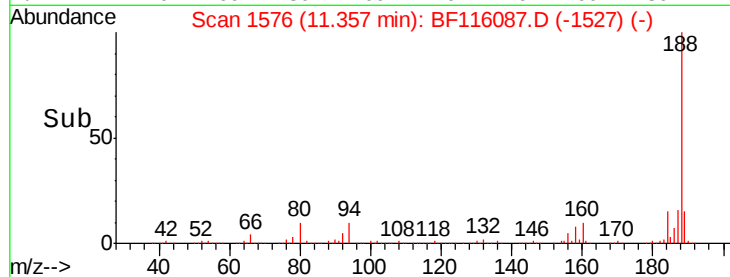
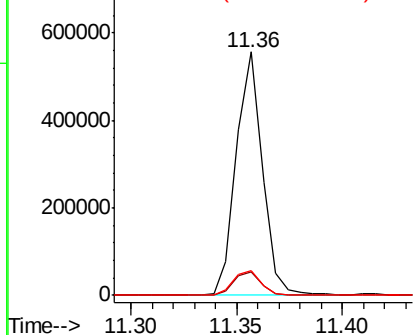
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF116087.D
 Acq: 9 Aug 2019 00:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 477908
 Ion Ratio Lower Upper
 188 100
 94 9.8 8.1 12.1
 80 10.3 8.7 13.1

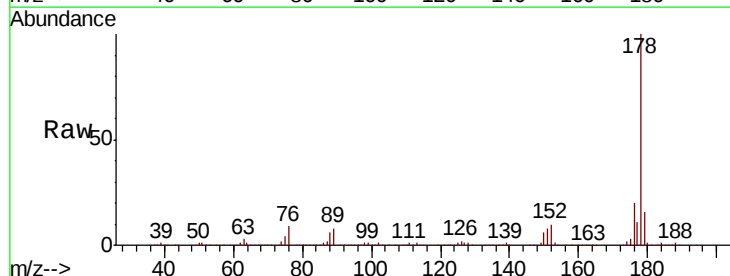


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

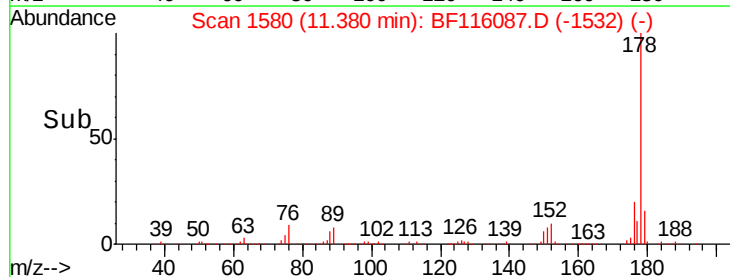
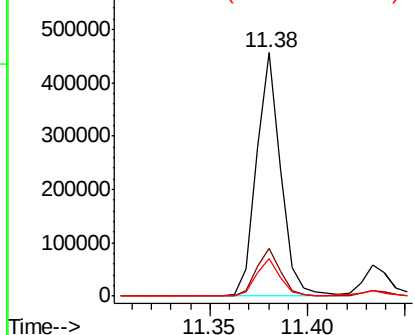


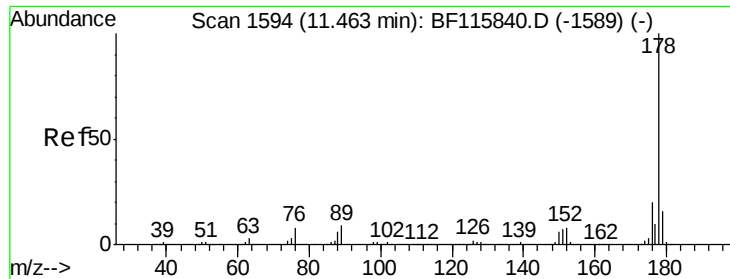
#71
 Phenanthrene
 Concen: 16.043 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. -0.02 min
 Lab File: BF116087.D
 Acq: 9 Aug 2019 00:18

Tgt Ion:178 Resp: 391961
 Ion Ratio Lower Upper
 178 100
 176 19.8 16.6 24.8
 179 15.6 12.5 18.7



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

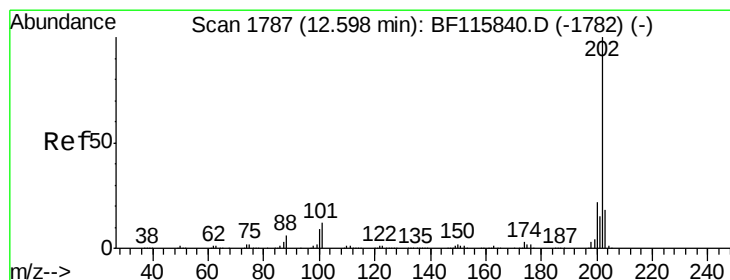
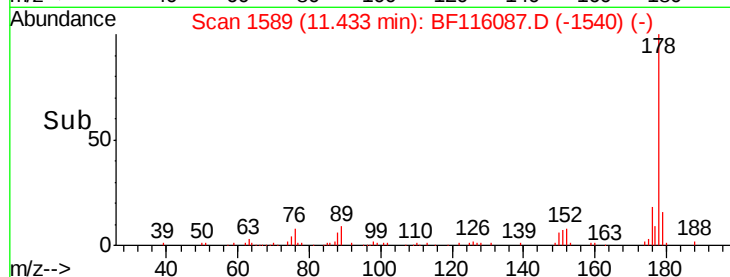
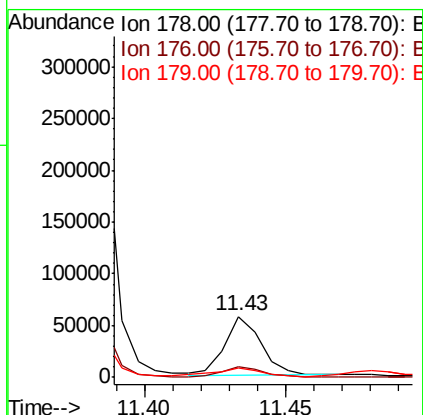
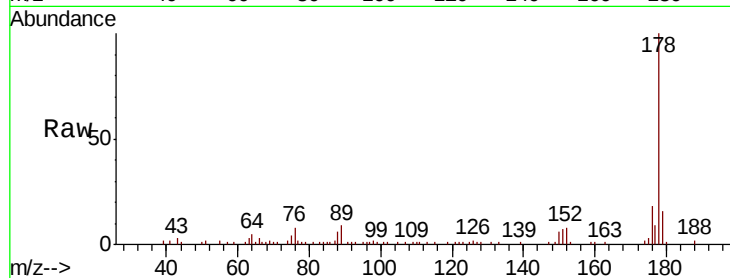




#72
 Anthracene
 Concen: 2.121 ng
 RT: 11.43 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: BF116087.D
 Acq: 9 Aug 2019 00:18

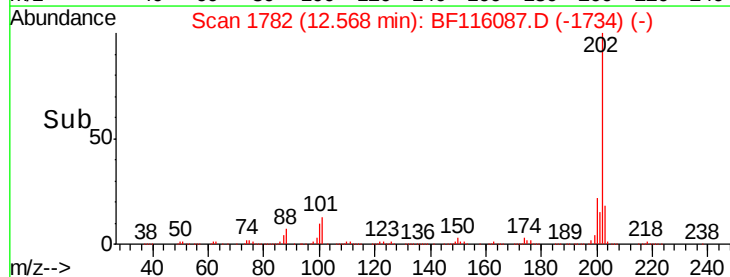
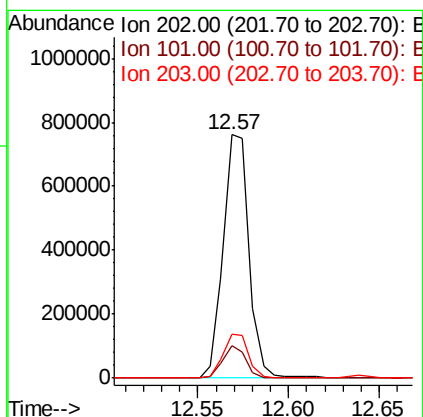
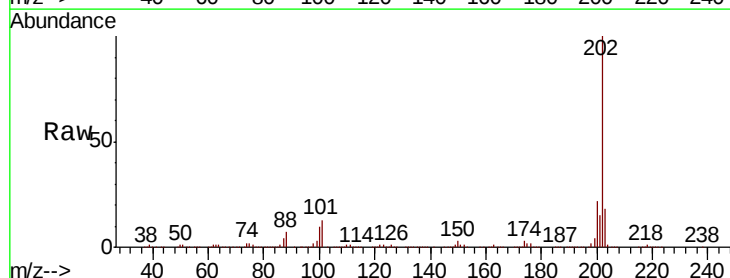
Instrument :
 BNA_F
 ClientSampleId :

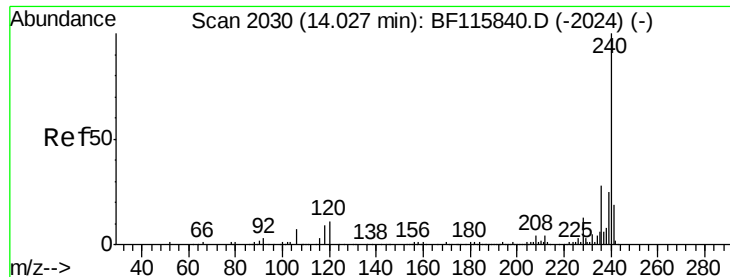
Tot Ion:178 Resp: 52441
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.7 23.5
 179 15.7 13.0 19.6



#75
 Fluoranthene
 Concen: 29.668 ng
 RT: 12.57 min Scan# 1782
 Delta R.T. -0.02 min
 Lab File: BF116087.D
 Acq: 9 Aug 2019 00:18

Tgt Ion:202 Resp: 758822
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 31.2
 203 18.1 0.0 37.8

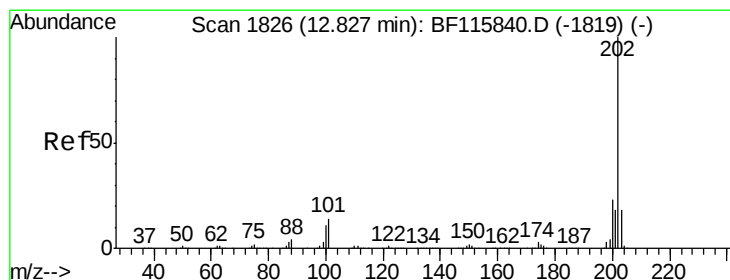
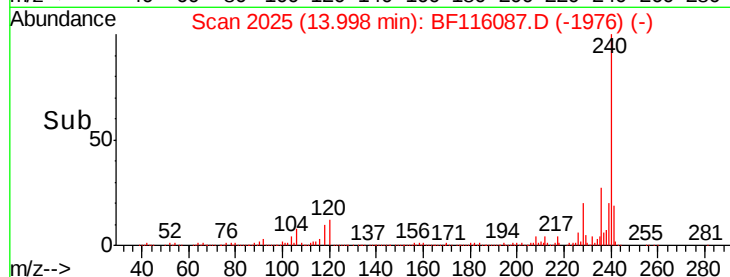
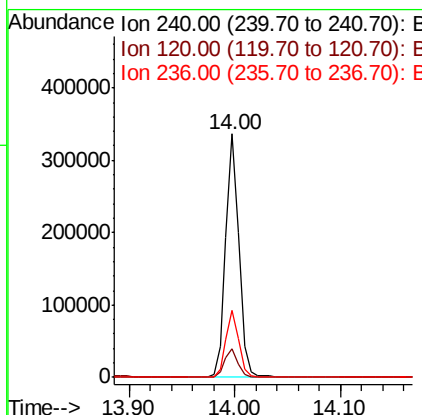
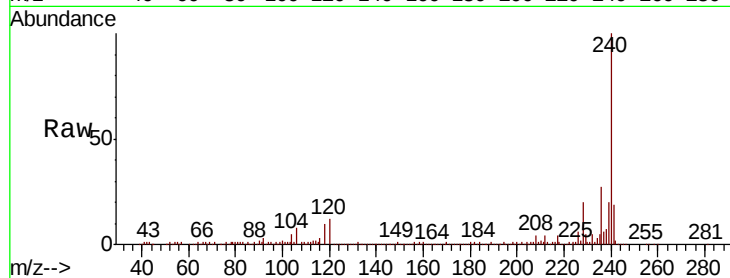




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

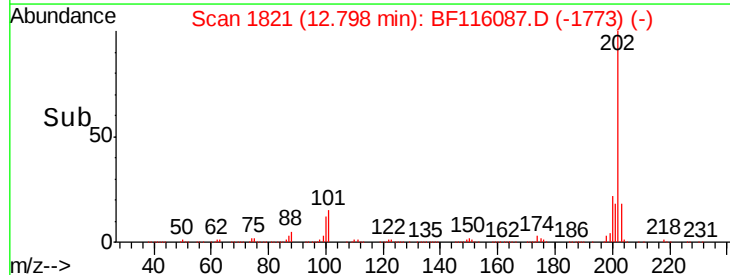
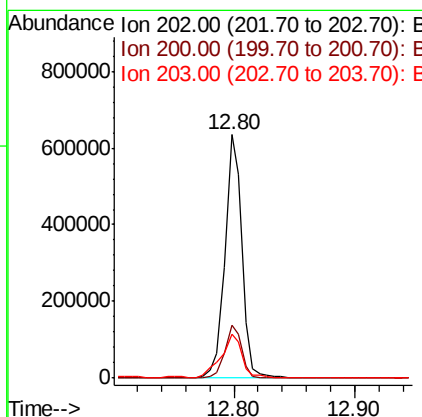
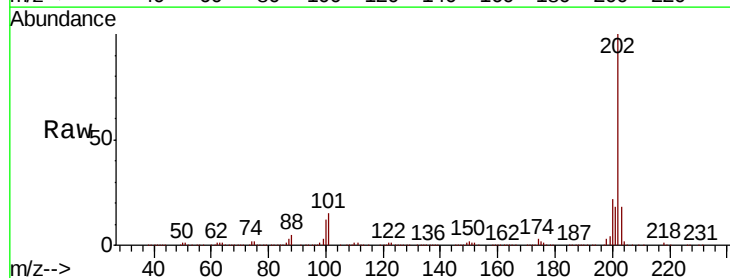
Instrument :
BNA_F
ClientSampleId :

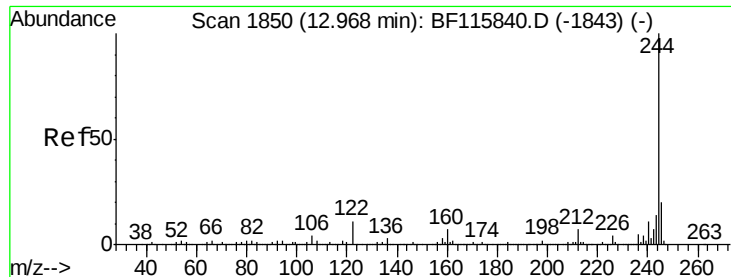
Tot Ion:240 Resp: 297177
Ion Ratio Lower Upper
240 100
120 12.0 10.7 16.1
236 27.3 22.2 33.2



#78
Pyrene
Concen: 27.363 ng
RT: 12.80 min Scan# 1821
Delta R.T. -0.02 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Tgt Ion:202 Resp: 612967
Ion Ratio Lower Upper
202 100
200 21.9 18.0 27.0
203 18.2 14.1 21.1

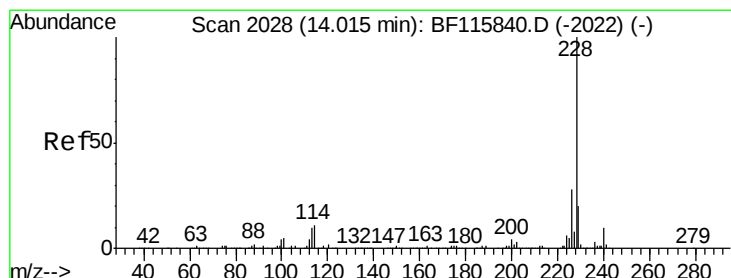
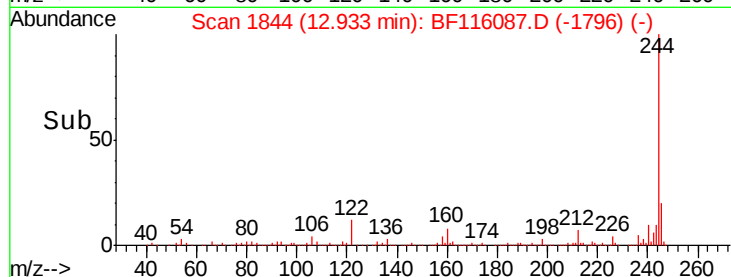
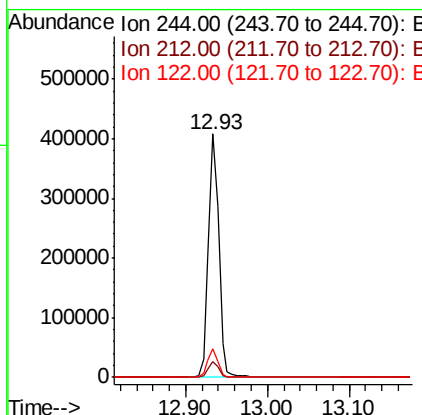
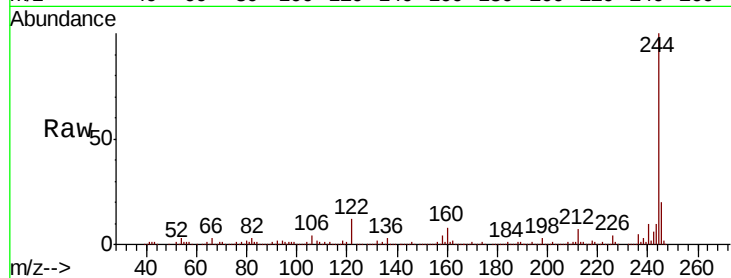




#79
 Terphenyl-d14
 Concen: 25.400 ng
 RT: 12.93 min Scan# 1844
 Delta R.T. -0.02 min
 Lab File: BF116087.D
 Acq: 9 Aug 2019 00:18

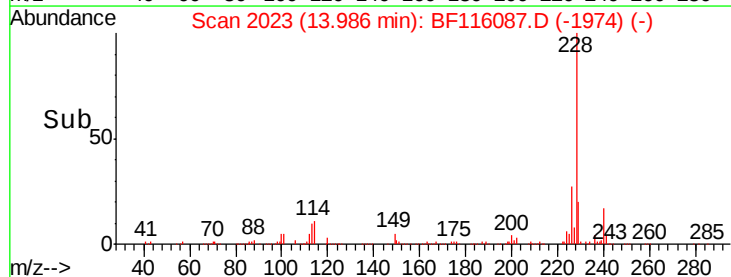
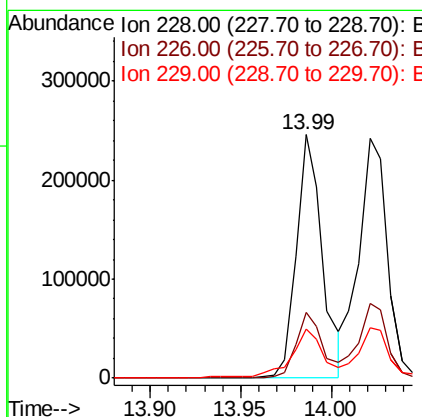
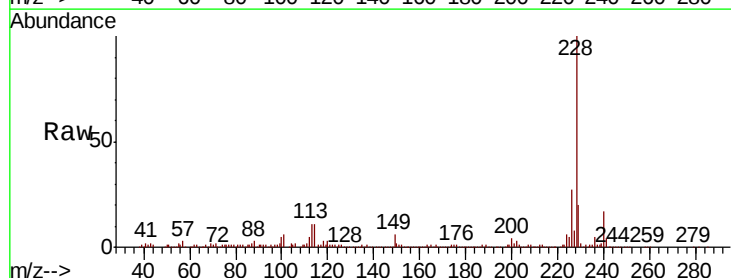
Instrument :
 BNA_F
 ClientSampled :

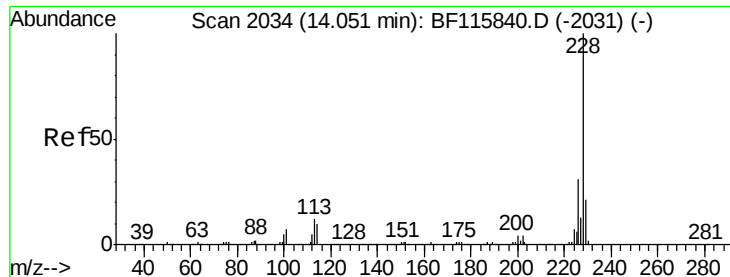
Tot Ion:244 Resp: 358218
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.8 8.8
 122 12.0 9.0 13.4



#81
 Benzo(a)anthracene
 Concen: 12.991 ng
 RT: 13.99 min Scan# 2023
 Delta R.T. -0.01 min
 Lab File: BF116087.D
 Acq: 9 Aug 2019 00:18

Tgt Ion:228 Resp: 246753
 Ion Ratio Lower Upper
 228 100
 226 27.2 22.7 34.1
 229 20.3 16.2 24.4





#83

Chrysene

Concen: 14.509 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.02 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

Instrument :

BNA_F

ClientSampleId :

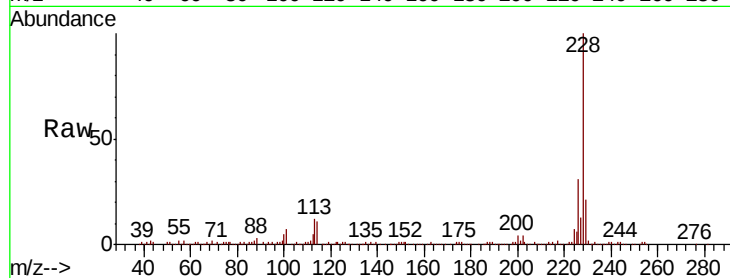
Tot Ion:228 Resp: 267559

Ion Ratio Lower Upper

228 100

226 31.1 25.5 38.3

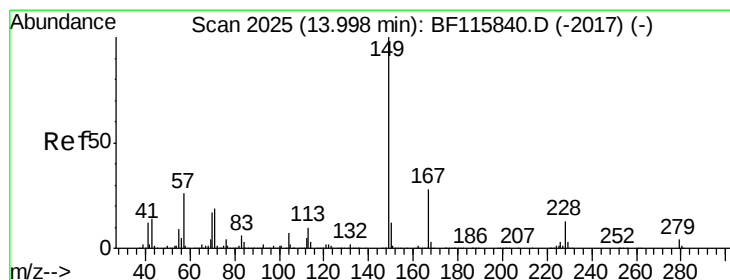
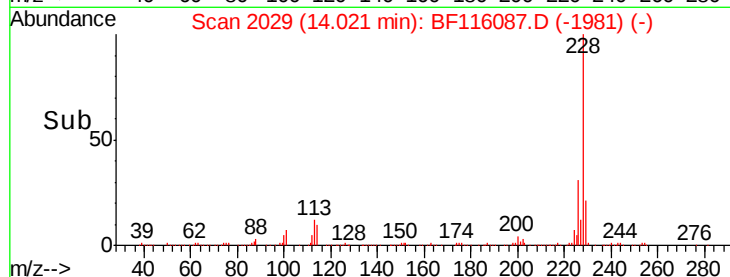
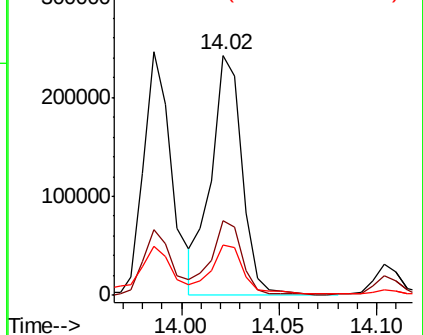
229 21.1 16.6 24.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 82.210 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

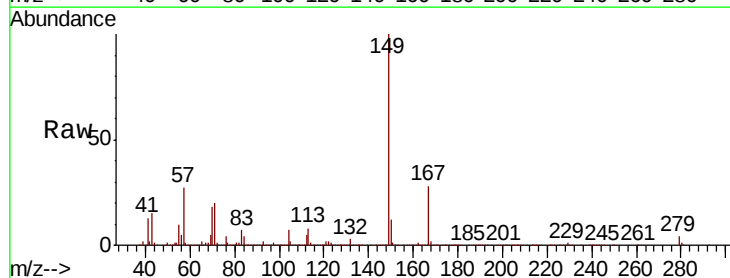
Tgt Ion:149 Resp: 1012337

Ion Ratio Lower Upper

149 100

167 28.2 21.6 32.4

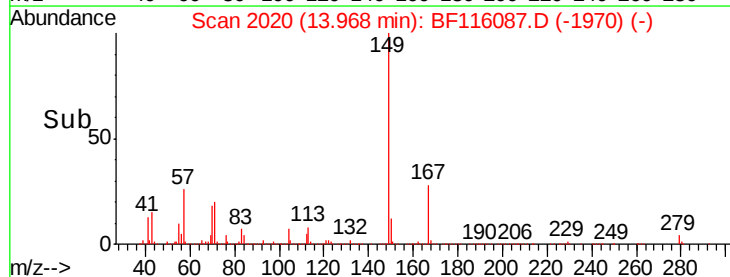
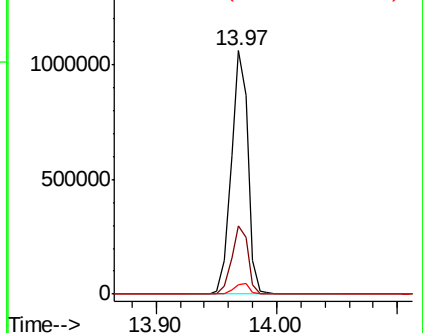
279 3.9 3.0 4.4

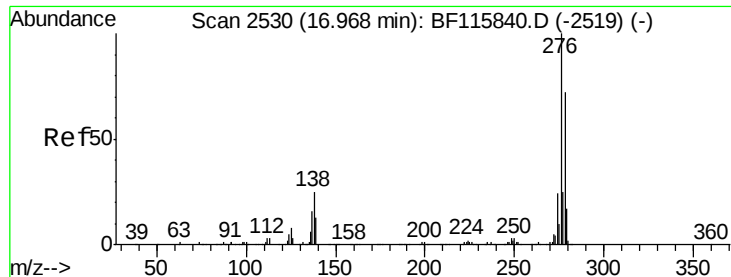


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 9.401 ng

RT: 16.93 min Scan# 2524

Delta R.T. -0.02 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

Instrument :

BNA_F

ClientSampleId :

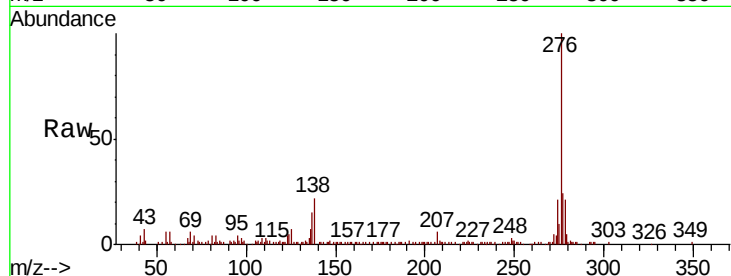
Tot Ion:276 Resp: 145601

Ion Ratio Lower Upper

276 100

138 20.2 20.4 30.6#

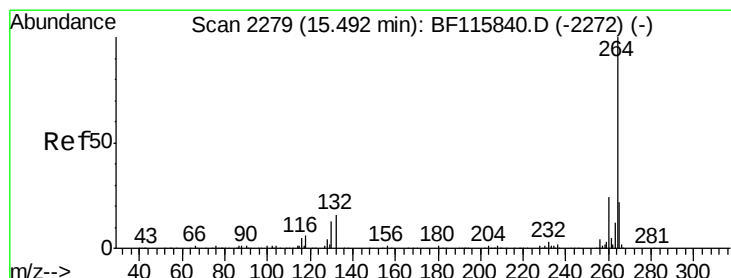
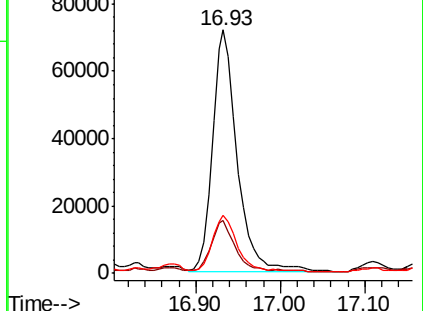
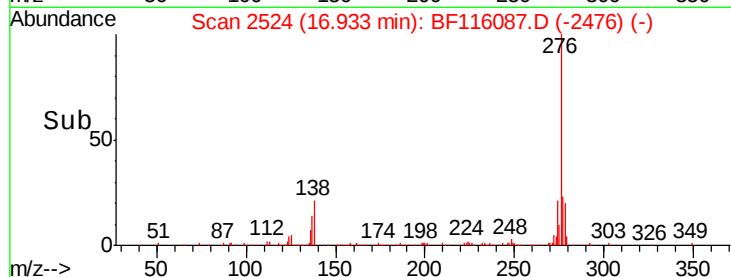
277 21.7 20.0 30.0



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: 15.46 min Scan# 2274

Delta R.T. -0.01 min

Lab File: BF116087.D

Acq: 9 Aug 2019 00:18

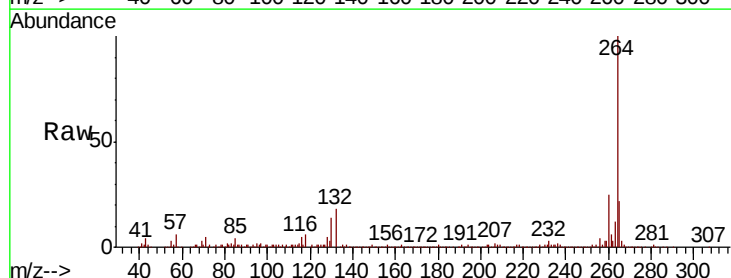
Tgt Ion:264 Resp: 336348

Ion Ratio Lower Upper

264 100

260 25.0 19.7 29.5

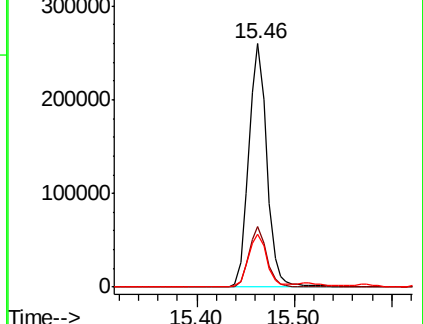
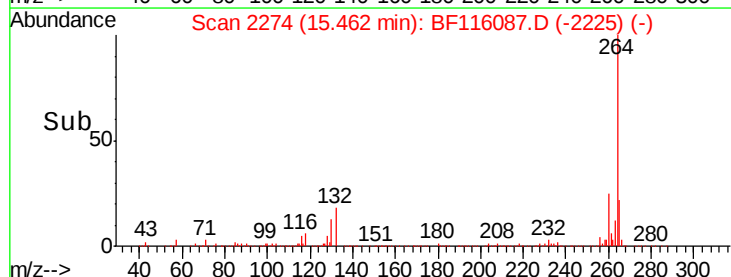
265 21.7 17.4 26.0

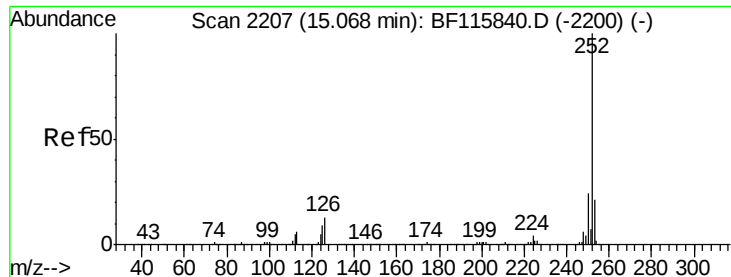


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

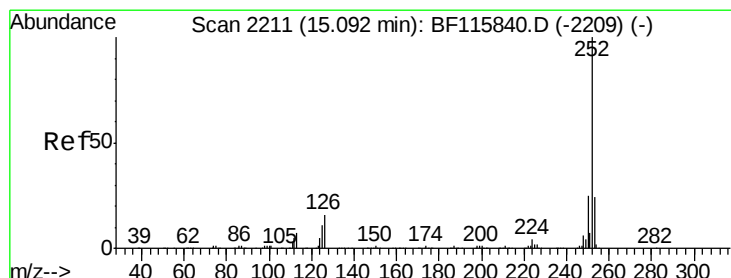
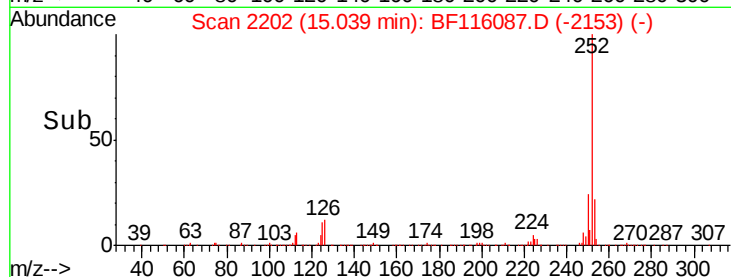
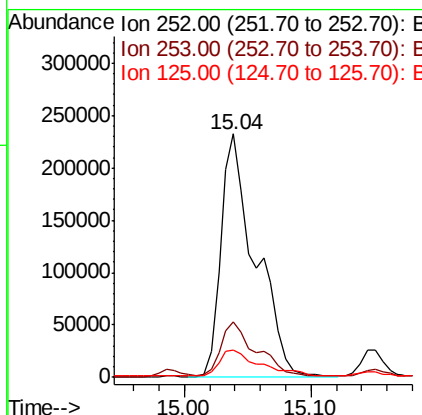
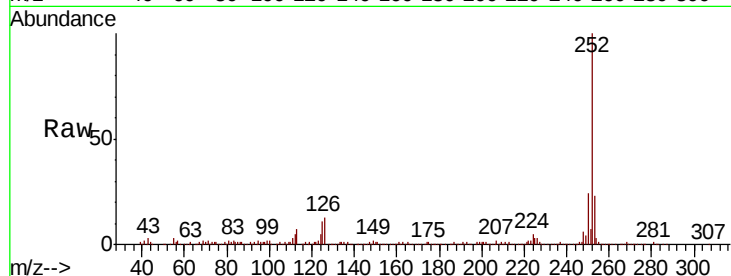




#88
Benzo(b)fluoranthene
Concen: 22.405 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

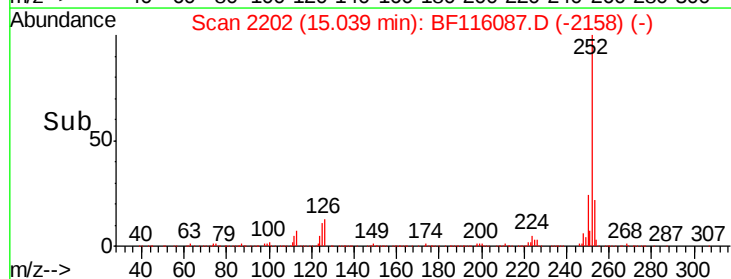
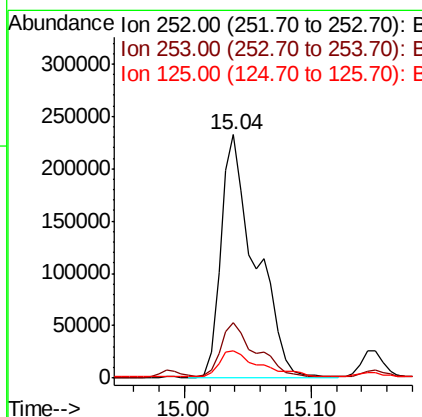
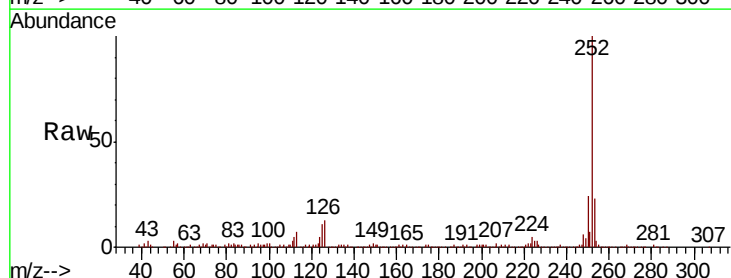
Instrument :
BNA_F
ClientSampleId :

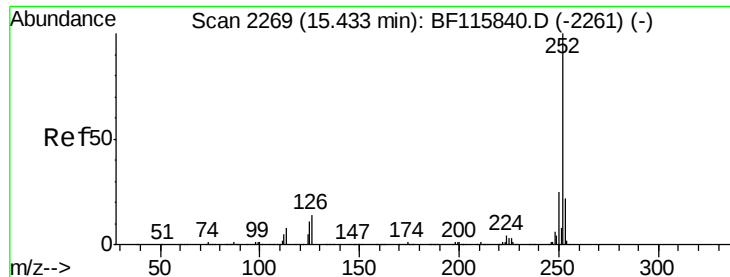
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	11.3	8.4	12.6



#89
Benzo(k)fluoranthene
Concen: 23.003 ng
RT: 15.04 min Scan# 2202
Delta R.T. -0.04 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	11.3	7.7	11.5

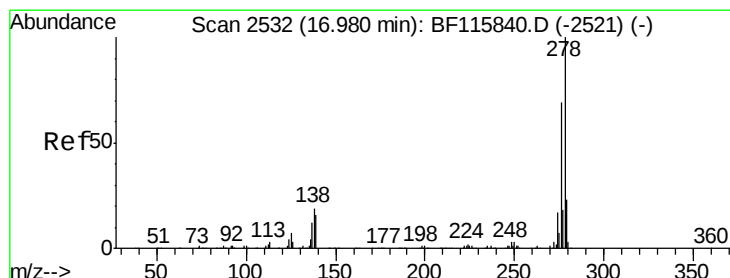
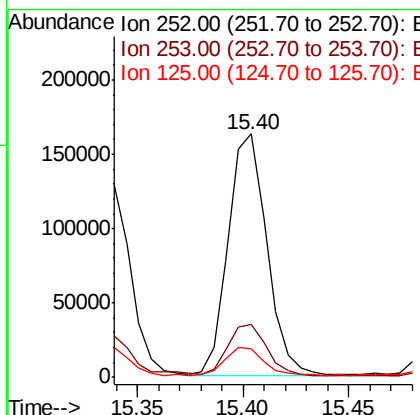
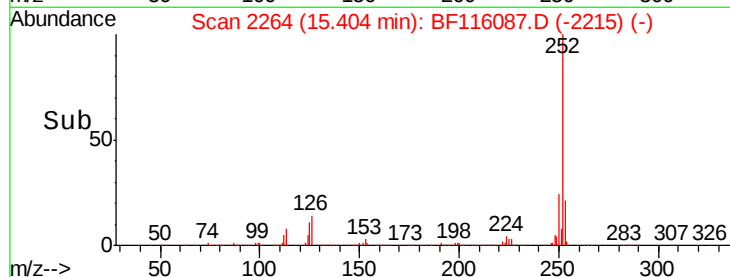
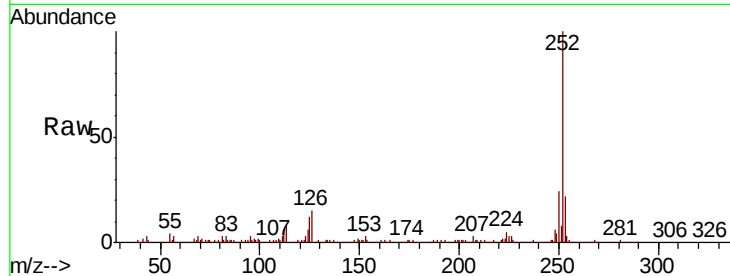




#90
Benzo(a)pyrene
Concen: 11.959 ng
RT: 15.40 min Scan# 2264
Delta R.T. -0.01 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

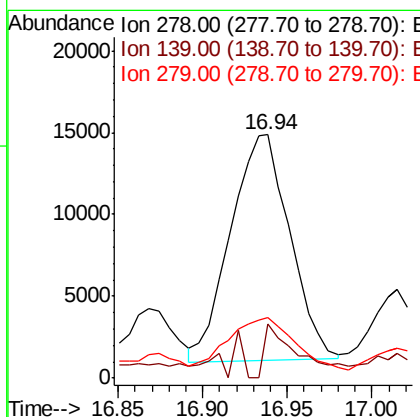
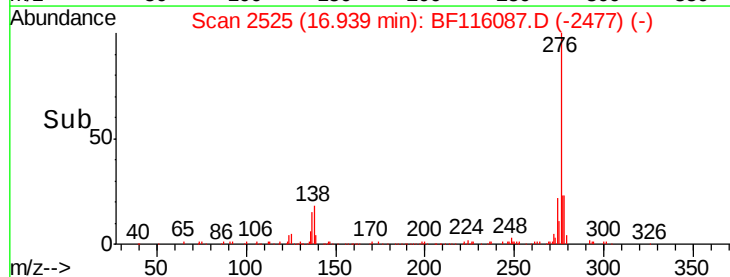
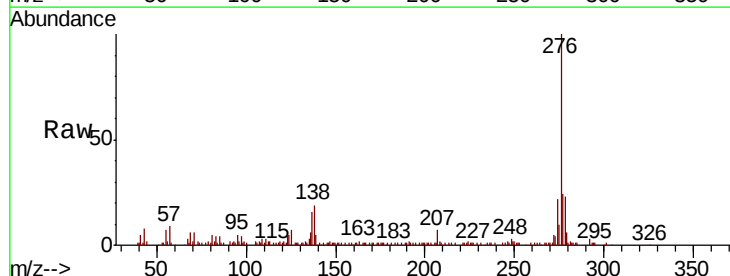
Instrument :
BNA_F
ClientSampled :

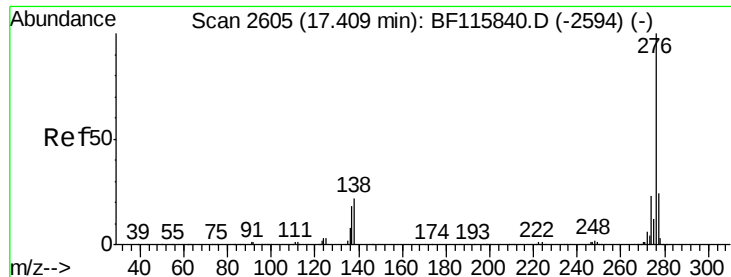
Tot Ion:252 Resp: 207902
Ion Ratio Lower Upper
252 100
253 21.9 18.0 27.0
125 11.8 8.9 13.3



#91
Dibenzo(a,h)anthracene
Concen: 2.227 ng
RT: 16.94 min Scan# 2525
Delta R.T. -0.02 min
Lab File: BF116087.D
Acq: 9 Aug 2019 00:18

Tgt Ion:278 Resp: 33507
Ion Ratio Lower Upper
278 100
139 22.2 12.8 19.2#
279 24.9 18.8 28.2

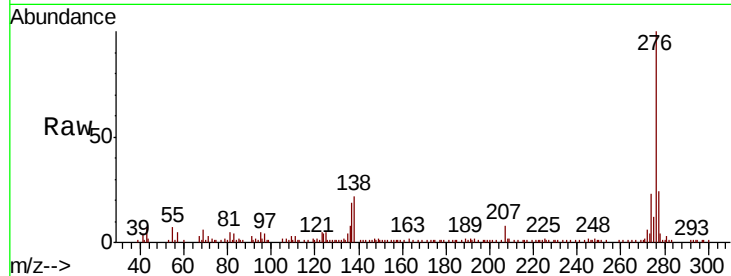




#92
 Benzo(a,h,i)perylene
 Concen: 8.696 ng
 RT: 17.37 min Scan# 2599
 Delta R.T. -0.01 min
 Lab File: BF116087.D
 Acq: 9 Aug 2019 00:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.4	27.6
138	22.4	17.0	25.6



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

