

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114676.D
 Acq On : 30 May 2019 22:34
 Operator : HP/JU
 Sample : K3068-10
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-6E(7-8)

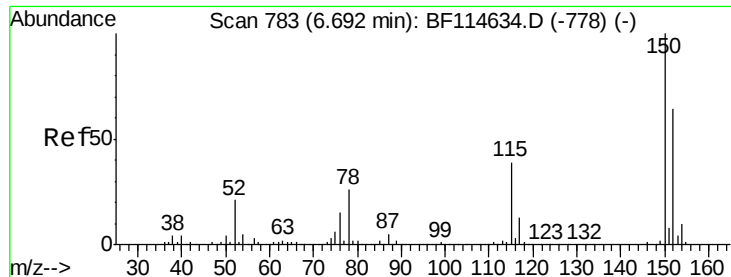
Manual Integrations
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 6/3/2019 8:47:33 AM

Quant Time: Jun 07 02:31:42 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 19:08:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	398797	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	1468218	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	667587	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	1112811	20.00	ng	0.00
76) Chrysene-d12	13.83	240	657431	20.00	ng	0.02
87) Perylene-d12	15.22	264	698973	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	2006653	88.34	ng	0.01
7) Phenol-d6	6.33	99	2494540	91.14	ng	0.00
23) Nitrobenzene-d5	7.26	82	1518761	64.54	ng	0.00
42) 2,4,6-Tribromophenol	10.50	330	497454	78.20	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	2532206	68.06	ng	0.00
79) Terphenyl-d14	12.78	244	2199298	62.90	ng	0.00
Target Compounds						
10) Phenol	6.34	94	86230m	2.608	ng	Qvalue
31) Naphthalene	8.00	128	746187	11.034	ng	96
37) 2-Methylnaphthalene	8.69	142	325592	7.246	ng	97
38) 1-Methylnaphthalene	8.78	142	341352	8.018	ng	98
49) Acenaphthylene	9.58	152	408916	6.511	ng	96
50) Dimethylphthalate	9.44	163	255732	5.497	ng	99
52) Acenaphthene	9.75	154	766148	19.893	ng	98
55) Dibenzofuran	9.92	168	657820	11.999	ng	97
58) Fluorene	10.26	166	889578	20.188	ng	97
71) Phenanthrene	11.24	178	6603666	116.331	ng	93
72) Anthracene	11.27	178	2128984	37.056	ng	100
73) Carbazole	11.42	167	1012661	20.055	ng	97
75) Fluoranthene	12.43	202	7881361	134.082	ng	94
78) Pyrene	12.65	202	7645491m	137.475	ng	
81) Benzo(a)anthracene	13.82	228	5232268	103.566	ng	93
83) Chrysene	13.86	228	4609660m	95.500	ng	
86) Indeno(1,2,3-cd)pyrene	16.56	276	2305987	47.700	ng	95
88) Benzo(b)fluoranthene	14.84	252	5403280m	122.735	ng	
89) Benzo(k)fluoranthene	14.86	252	1430048m	37.373	ng	
90) Benzo(a)pyrene	15.17	252	3623767	93.699	ng	94
91) Dibenzo(a,h)anthracene	16.56	278	618468	18.097	ng	95
92) Benzo(g,h,i)perylene	16.96	276	2128658	64.176	ng	100

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



#1

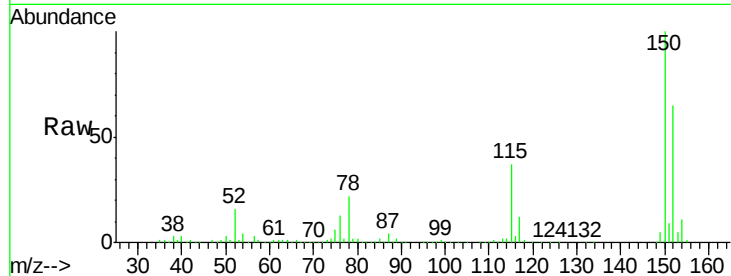
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.01 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampleId :
B-6E(7-8)

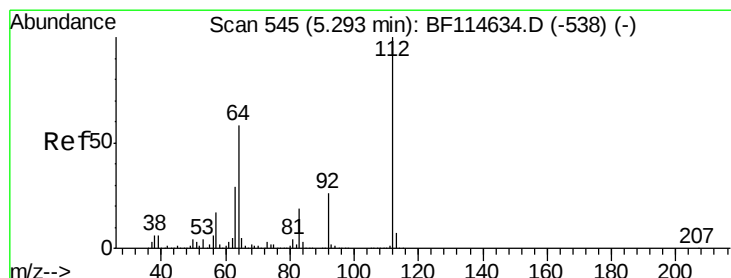
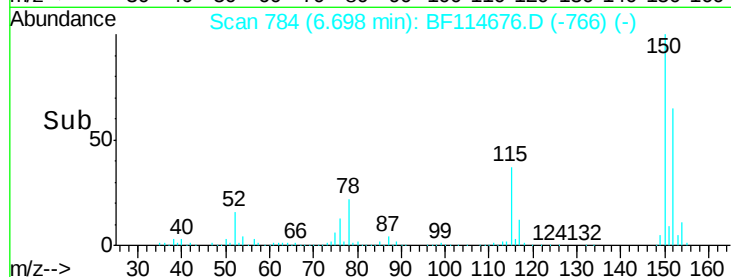
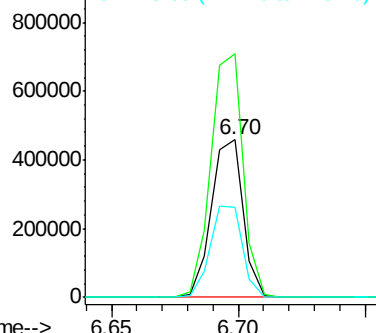
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.4	186.6
115	57.1	48.7	73.1

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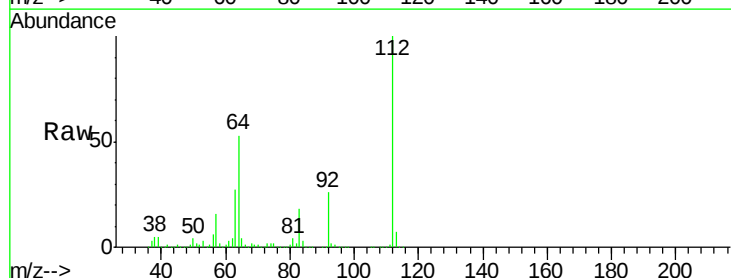
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



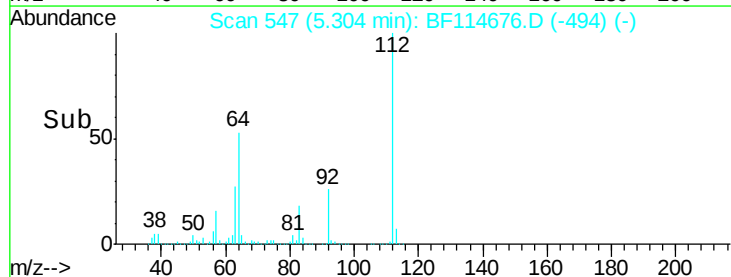
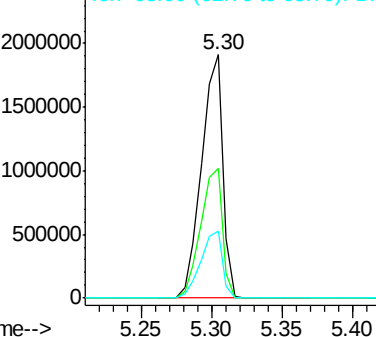
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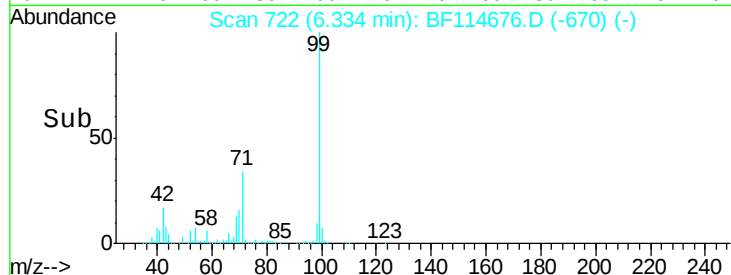
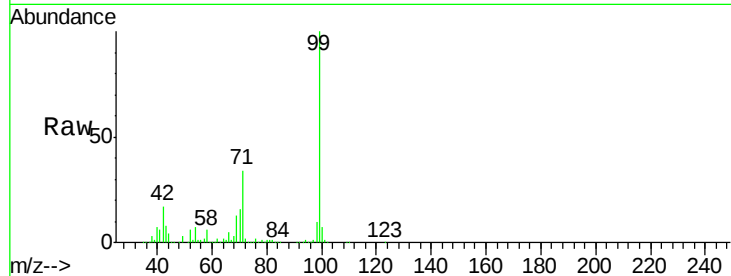
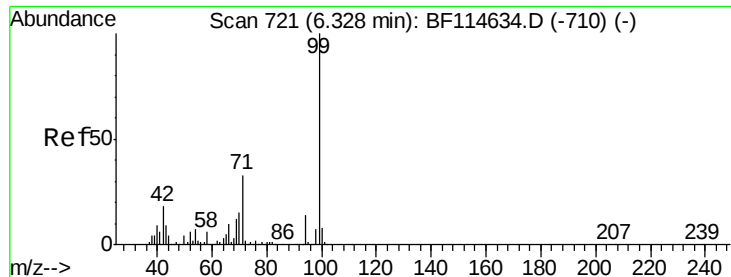
2-Fluorophenol
Concen: 88.343 ng
RT: 5.30 min Scan# 547
Delta R.T. 0.01 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.1	46.1	69.1
63	27.3	23.4	35.2



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: 91.136 ng

RT: 6.33 min Scan# 722

Delta R.T. 0.01 min

Lab File: BF114676.D

Acq: 30 May 2019 22:34

Tot Ion:	99	Resp:	2494540
Ion	Ratio	Lower	Upper
99	100		
42	17.0	14.7	22.1
71	33.6	26.6	40.0

Instrument :

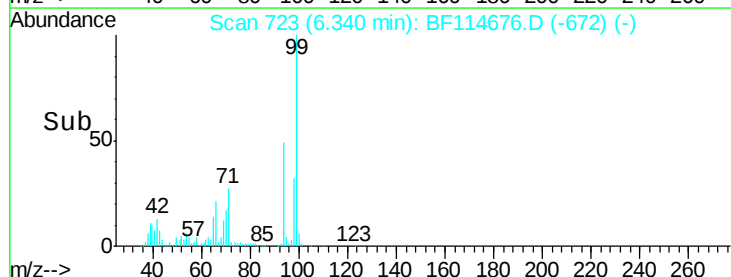
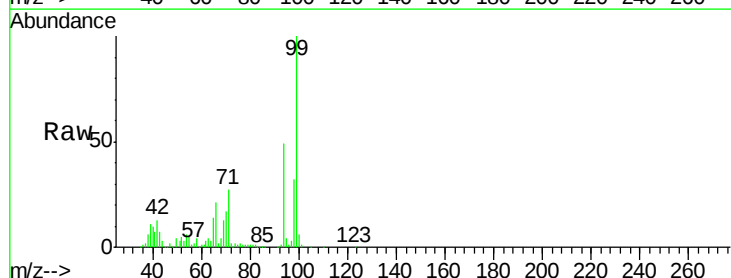
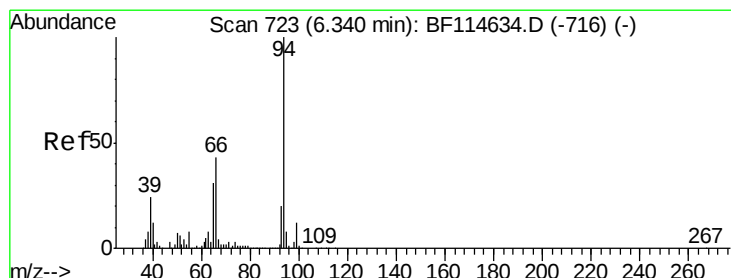
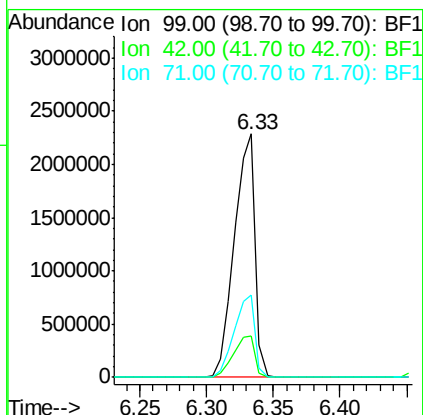
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 2.608 ng m

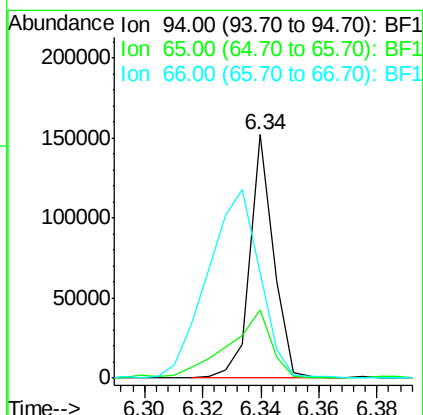
RT: 6.34 min Scan# 723

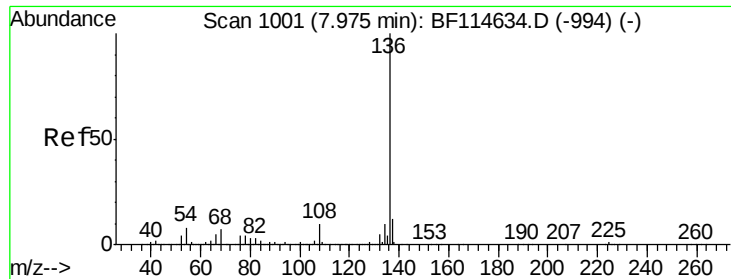
Delta R.T. 0.00 min

Lab File: BF114676.D

Acq: 30 May 2019 22:34

Tgt Ion:	94	Resp:	86230
Ion	Ratio	Lower	Upper
94	100		
65	28.1	11.0	51.0
66	43.1	23.0	63.0





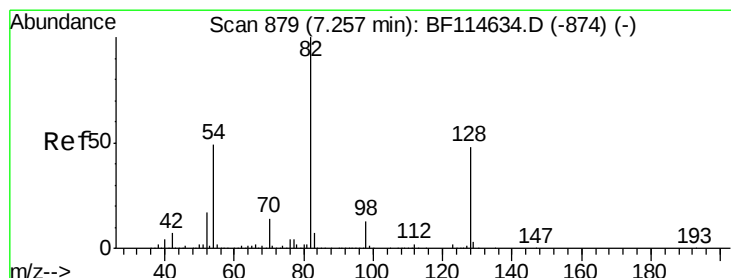
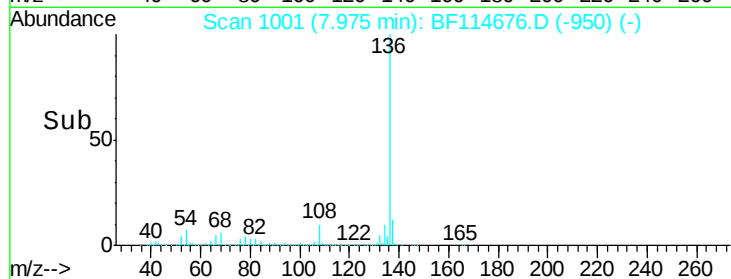
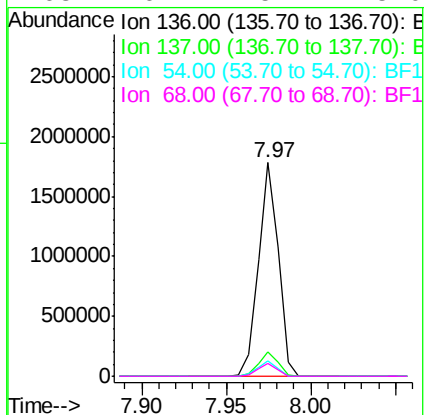
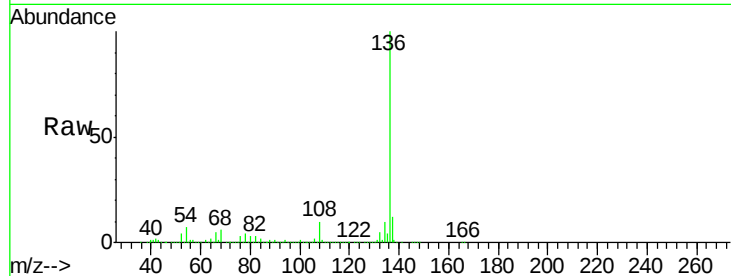
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampled :
B-6E(7-8)

Tot Ion	136	Resp	1468218
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.3	13.9
54	7.2	6.3	9.5
68	6.1	5.4	8.0

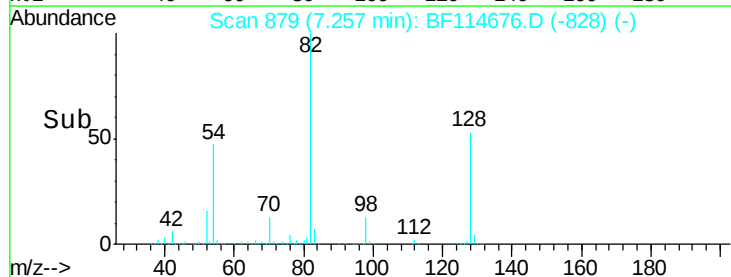
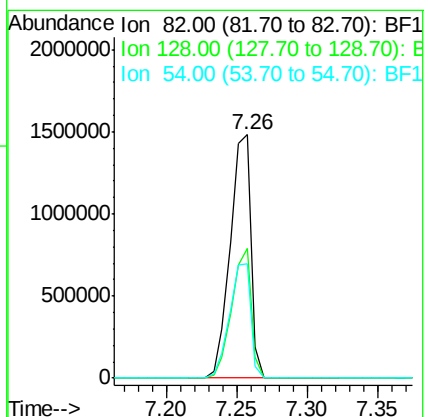
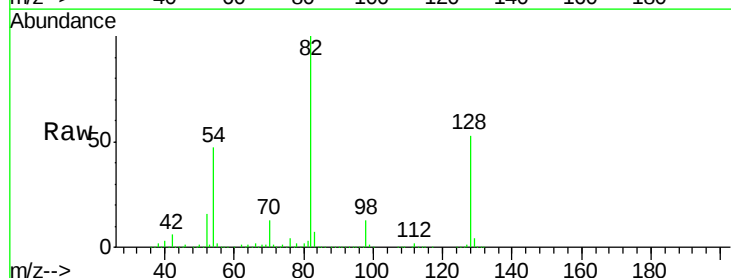
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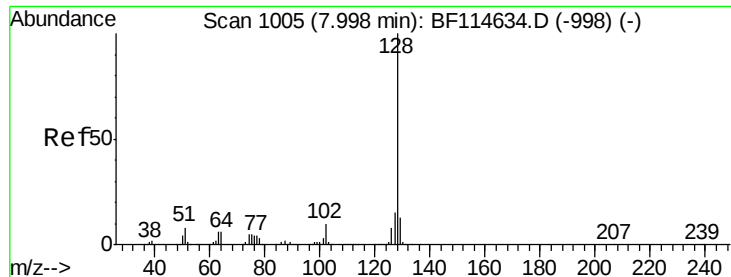
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#23
Nitrobenzene-d5
Concen: 64.537 ng
RT: 7.26 min Scan# 879
Delta R.T. 0.00 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion	82	Resp	1518761
Ion	Ratio	Lower	Upper
82	100		
128	53.4	38.5	57.7
54	47.1	39.1	58.7





#31

Naphthalene

Concen: 11.034 ng

RT: 8.00 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BF114676.D

Acq: 30 May 2019 22:34

Instrument :

BNA_F

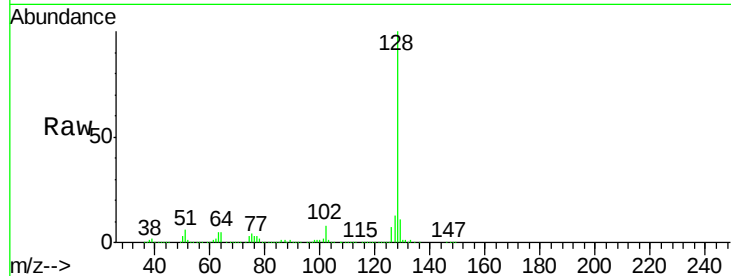
ClientSampleId :

B-6E(7-8)

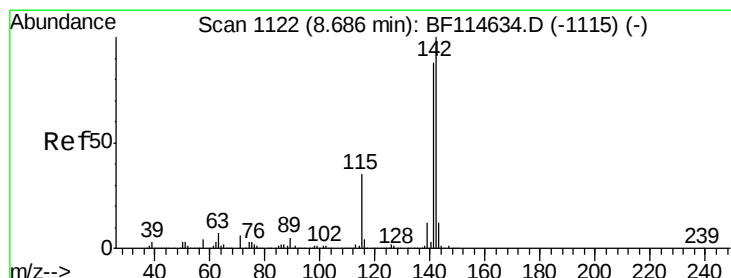
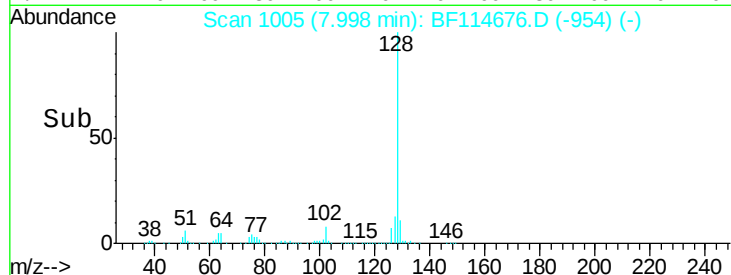
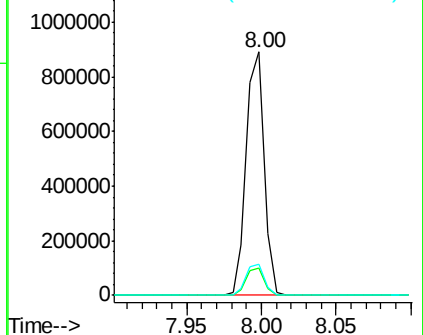
Tot Ion:	128	Resp:	746187
Ion Ratio		Lower	Upper
128	100		
129	11.2	10.2	15.2
127	12.9	11.9	17.9

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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



#37

2-Methylnaphthalene

Concen: 7.246 ng

RT: 8.69 min Scan# 1122

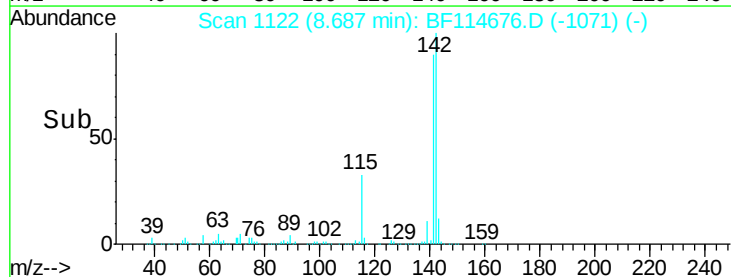
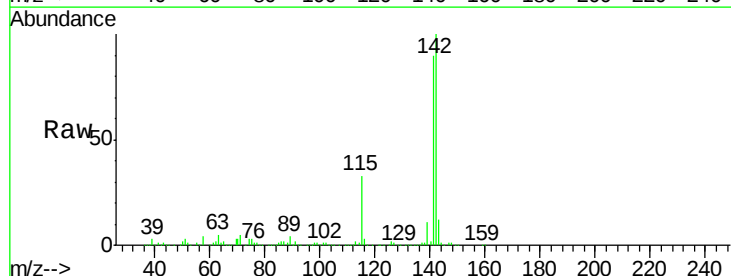
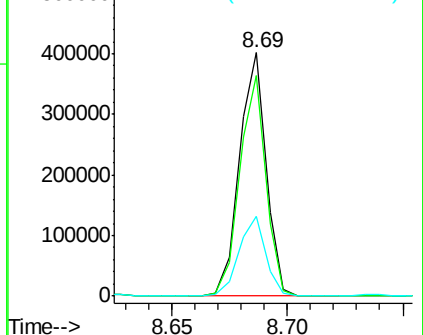
Delta R.T. 0.00 min

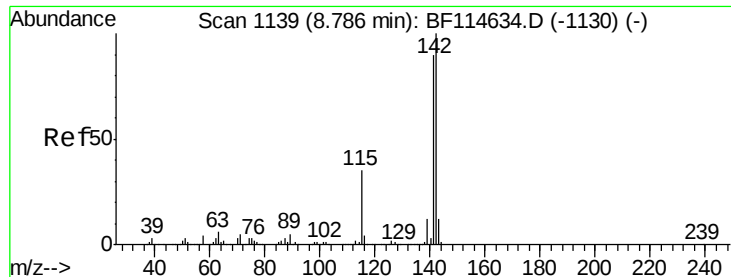
Lab File: BF114676.D

Acq: 30 May 2019 22:34

Tgt Ion:	142	Resp:	325592
Ion Ratio		Lower	Upper
142	100		
141	90.5	70.3	105.5
115	32.7	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





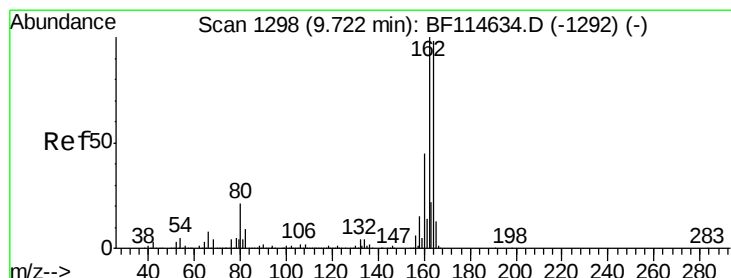
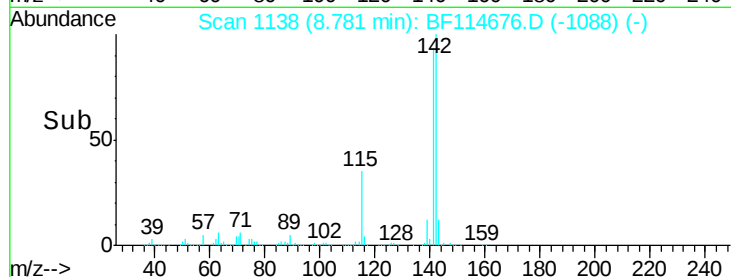
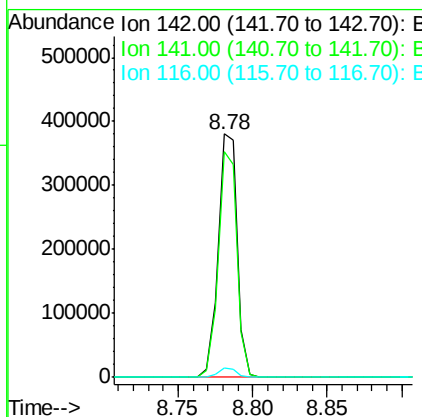
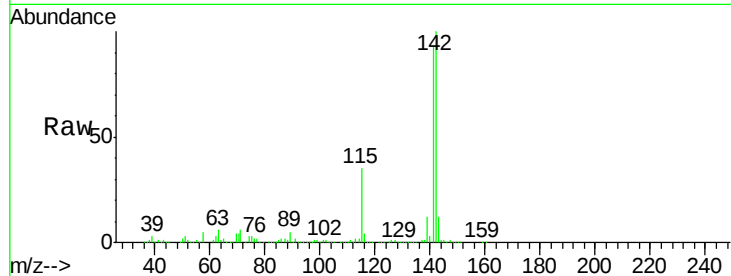
#38
1-Methylnaphthalene
Concen: 8.018 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampleId :
B-6E(7-8)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	341352		
141	92.8	72.3	108.5	
116	3.8	3.0	4.4	

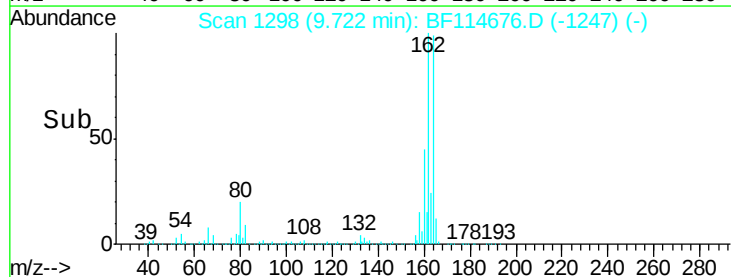
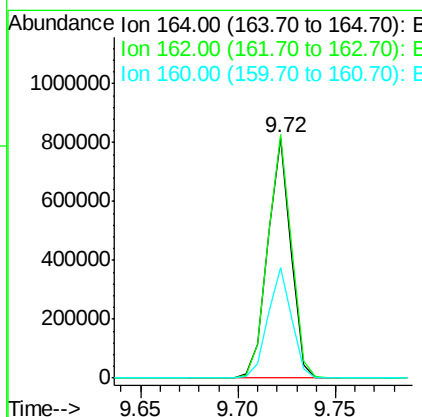
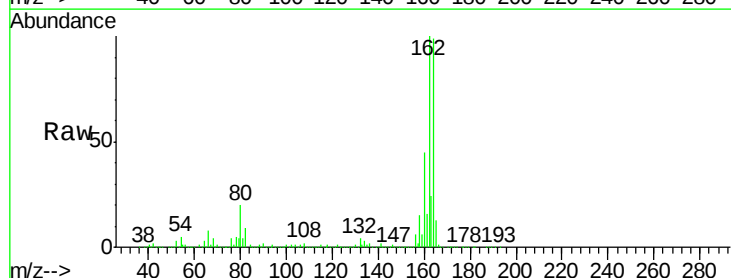
Manual Integrations
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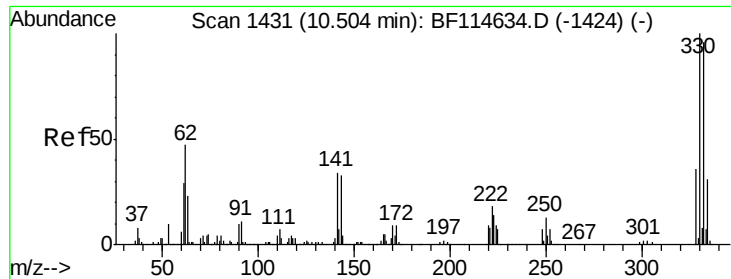
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. 0.00 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	667587		
162	101.5	81.4	122.2	
160	45.9	36.6	54.8	





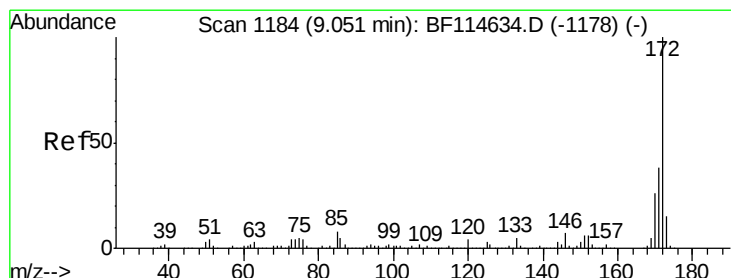
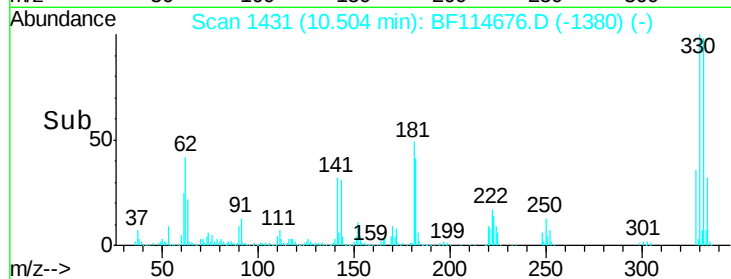
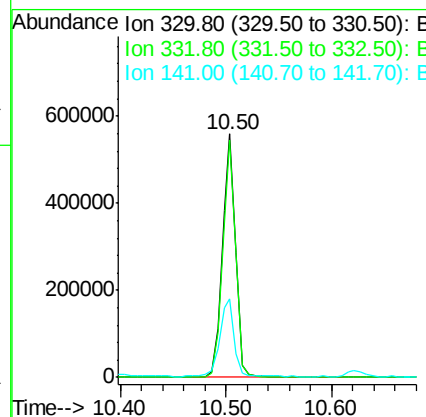
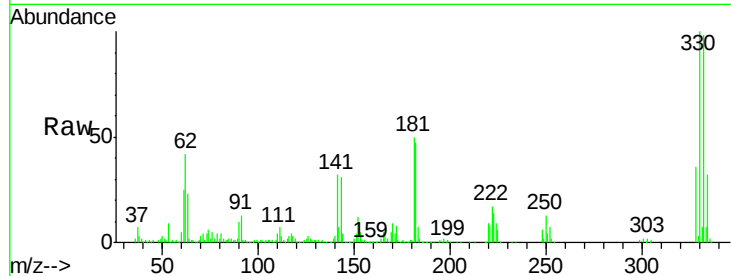
#42
 2,4,6-Tribromophenol
 Concen: 78.203 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. 0.00 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Instrument :
 BNA_F
 ClientSampleId :
 B-6E(7-8)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	497454		
332	96.2	75.8	113.8	
141	34.7	27.8	41.8	

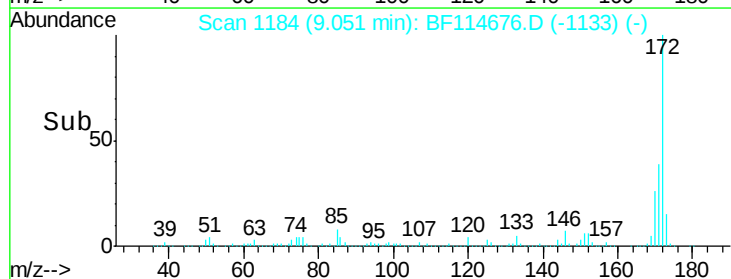
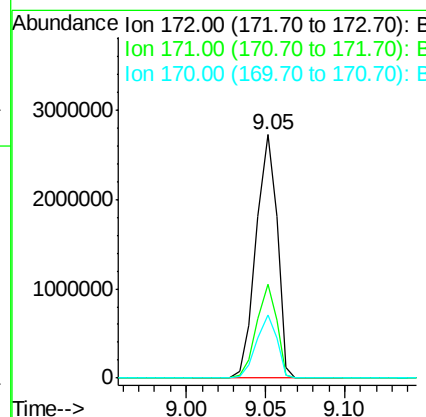
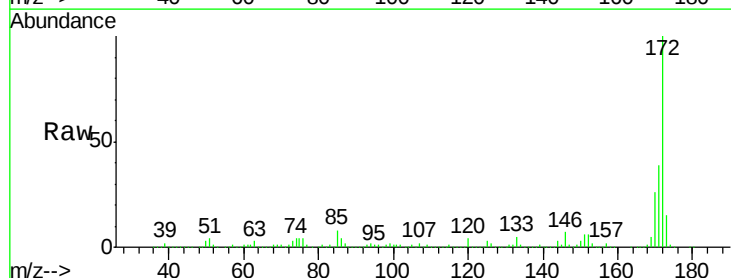
Manual Integrations
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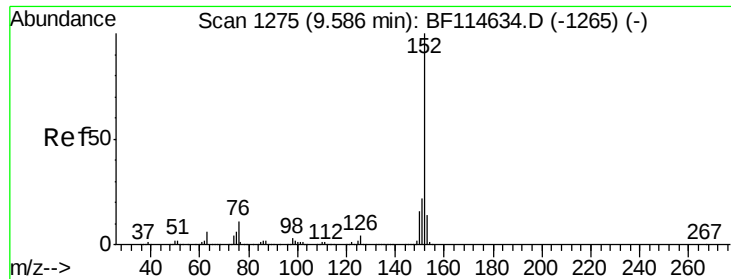
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#45
 2-Fluorobiphenyl
 Concen: 68.064 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. 0.00 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	2532206		
171	38.6	30.6	45.8	
170	26.0	20.7	31.1	





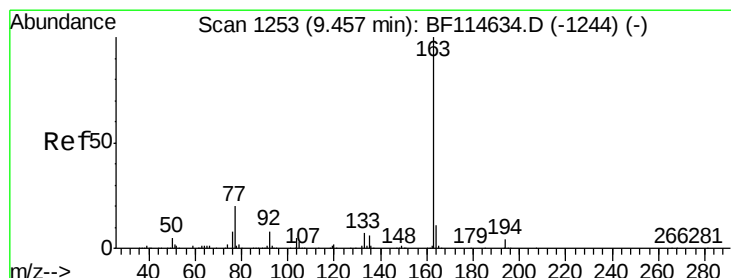
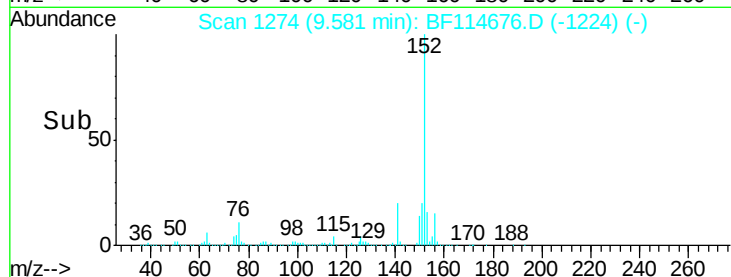
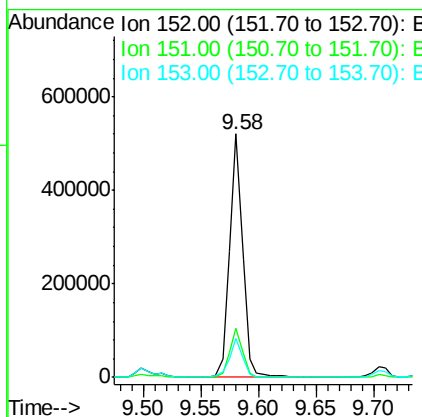
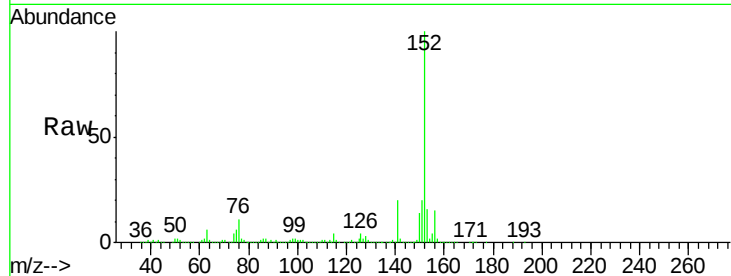
#49
Acenaphthylene
Concen: 6.511 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.01 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampleId :
B-6E(7-8)

Tot Ion	Ratio	Resp	Lower	Upper
152	100	408916		
151	20.0		17.5	26.3
153	15.7		11.6	17.4

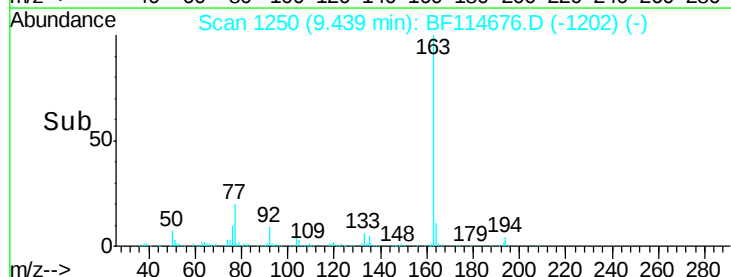
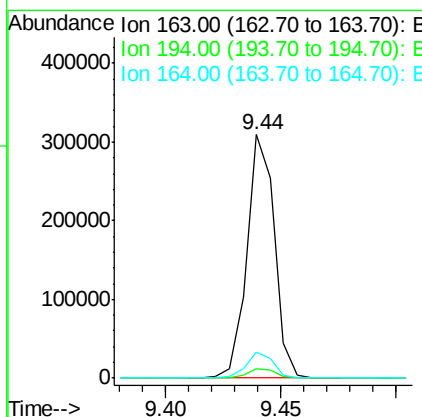
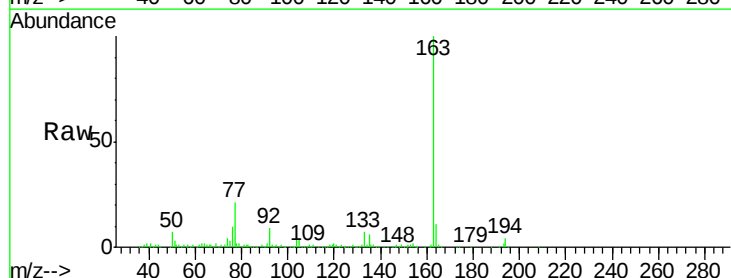
Manual Integrations
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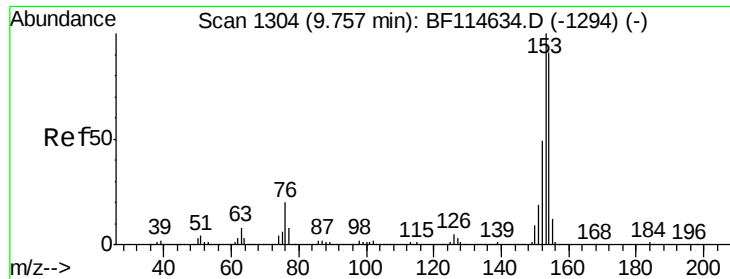
mohammad
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#50
Dimethylphthalate
Concen: 5.497 ng
RT: 9.44 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	255732		
194	3.9		3.4	5.0
164	10.5		8.6	13.0





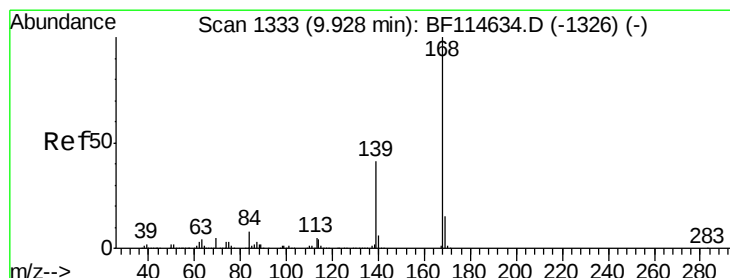
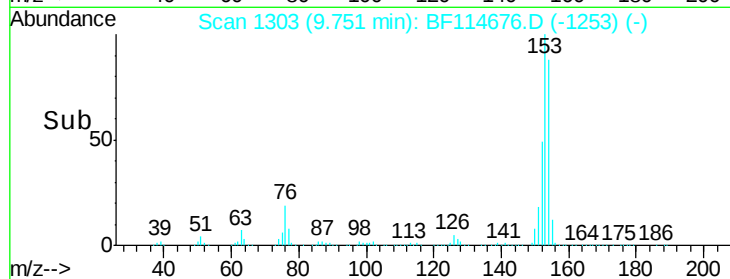
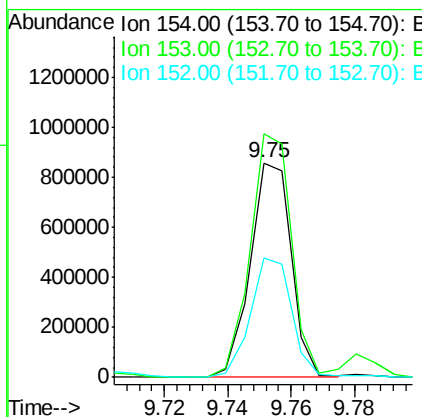
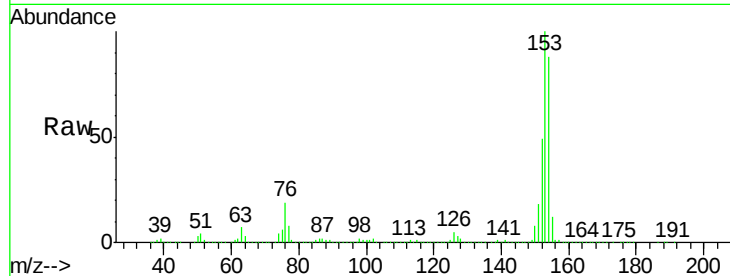
#52
Acenaphthene
Concen: 19.893 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampleId :
B-6E(7-8)

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.5	88.4	132.6
152	55.4	43.4	65.0

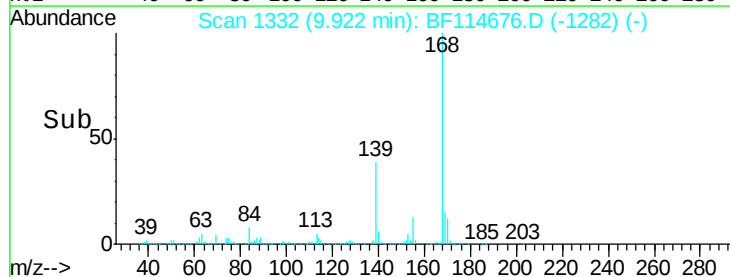
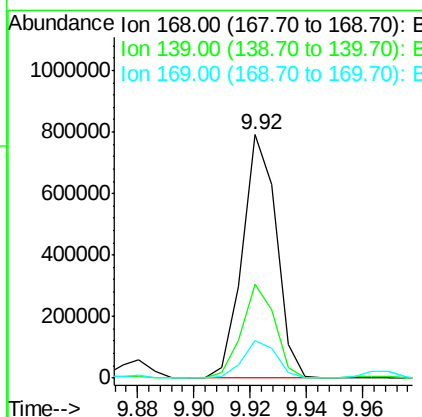
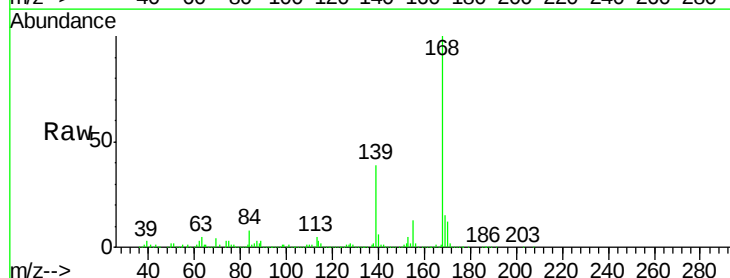
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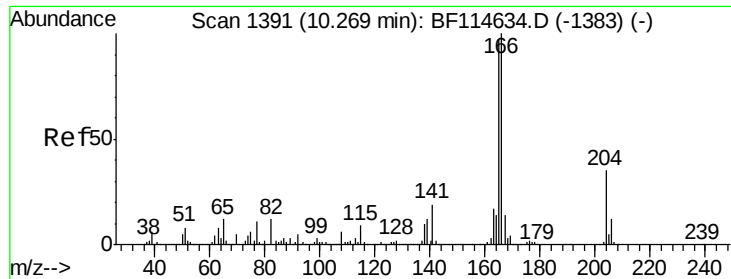
mohammad
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#55
Dibenzofuran
Concen: 11.999 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.6	32.6	48.8
169	15.4	11.8	17.8





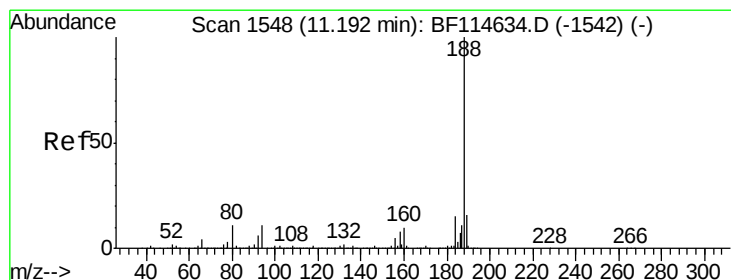
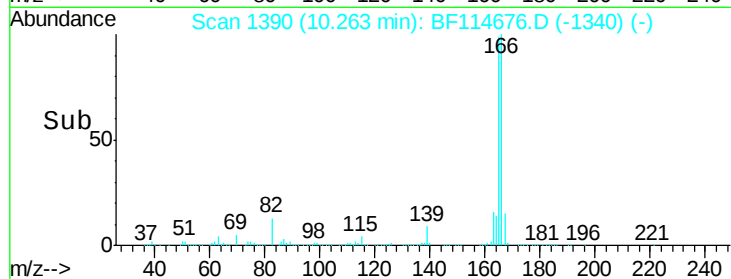
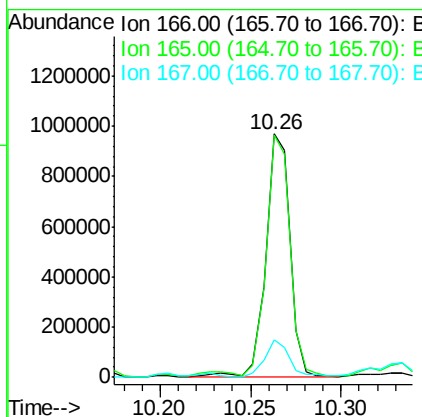
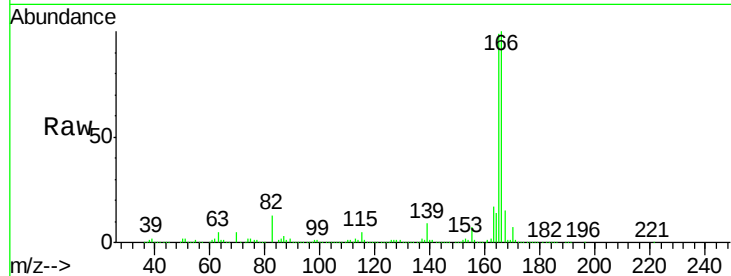
#58
Fluorene
 Concen: 20.188 ng
 RT: 10.26 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Instrument :
 BNA_F
 ClientSampleId :
 B-6E(7-8)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		889578		
165	99.5	77.6		116.4	
167	15.4	11.2		16.8	

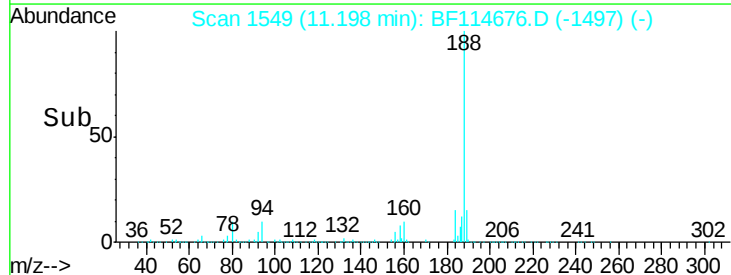
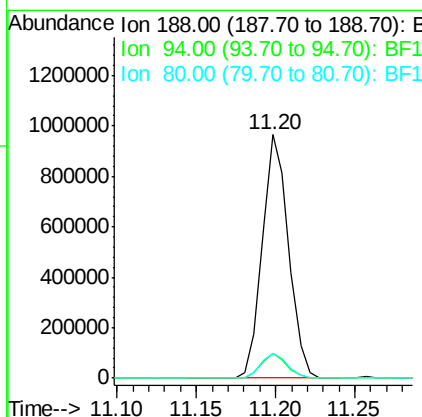
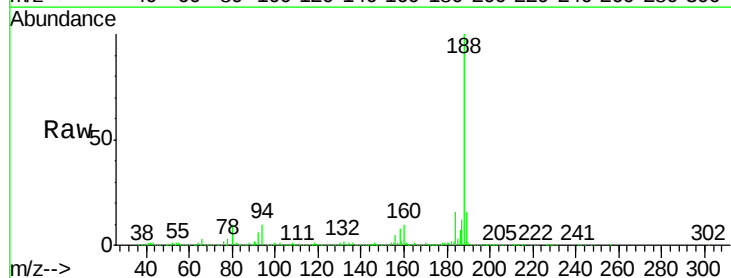
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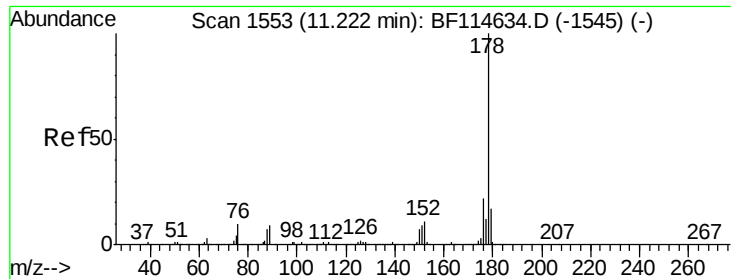
mohammad
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#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.20 min Scan# 1549
 Delta R.T. 0.01 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		1112811		
94	10.2	8.6		13.0	
80	10.3	9.0		13.6	





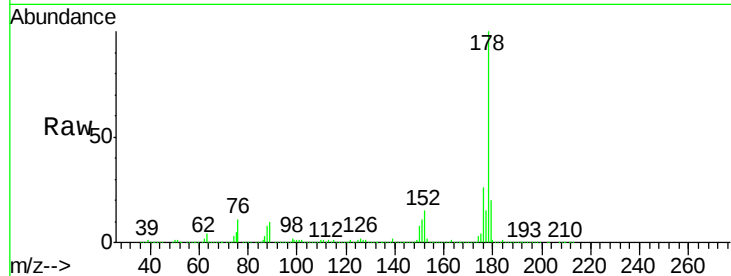
#71
Phenanthrene
Concen: 116.331 ng
RT: 11.24 min Scan# 1556
Delta R.T. 0.02 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampled :
B-6E(7-8)

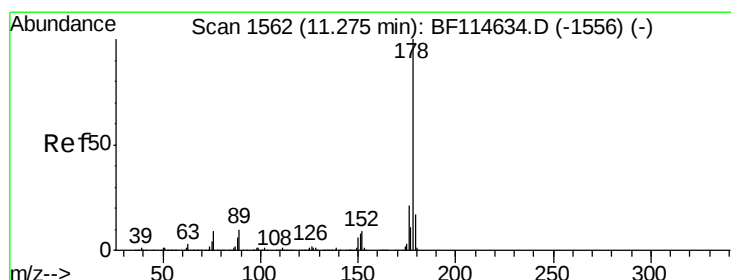
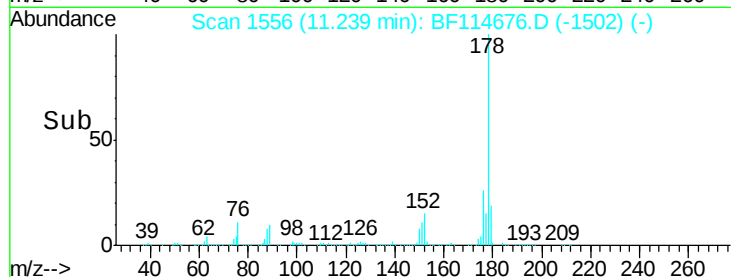
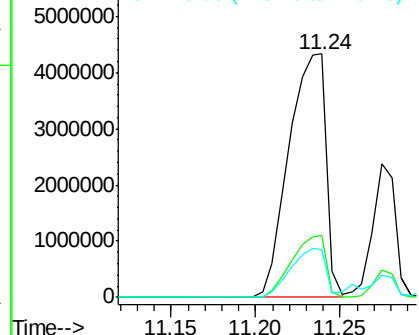
Tot Ion:178 Resp: 6603666
Ion Ratio Lower Upper
178 100
176 25.6 17.2 25.8
179 19.5 13.9 20.9

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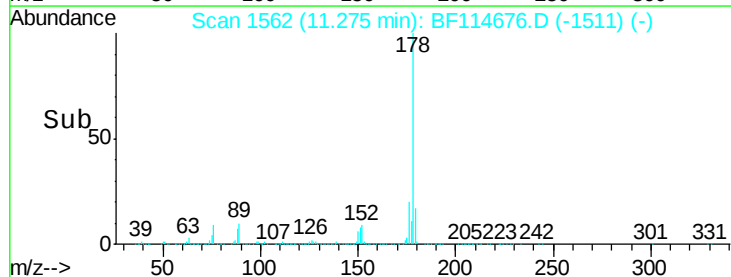
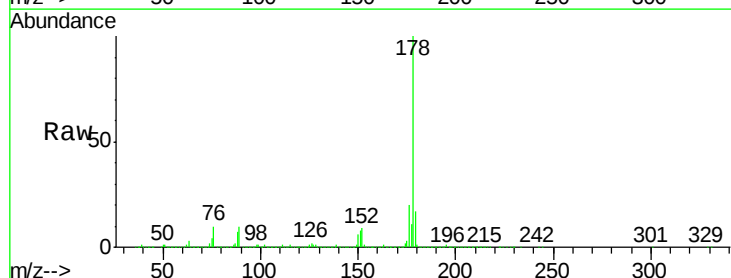
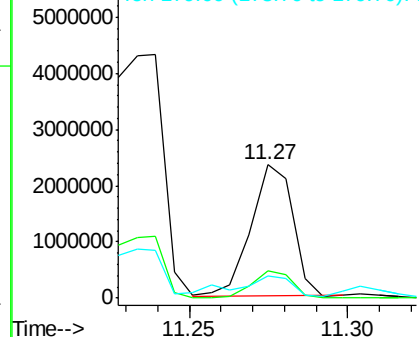
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

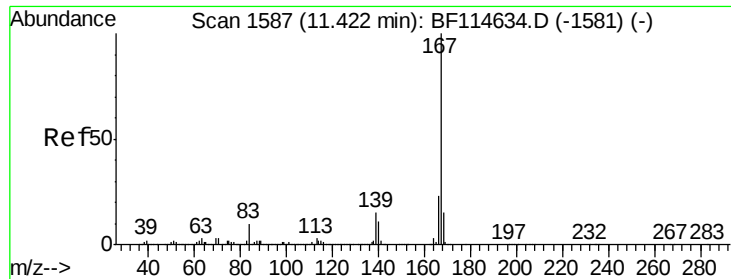


#72
Anthracene
Concen: 37.056 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.00 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion:178 Resp: 2128984
Ion Ratio Lower Upper
178 100
176 20.4 16.6 24.8
179 16.7 13.4 20.0

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





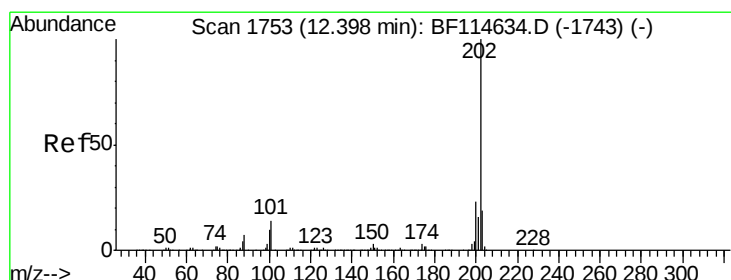
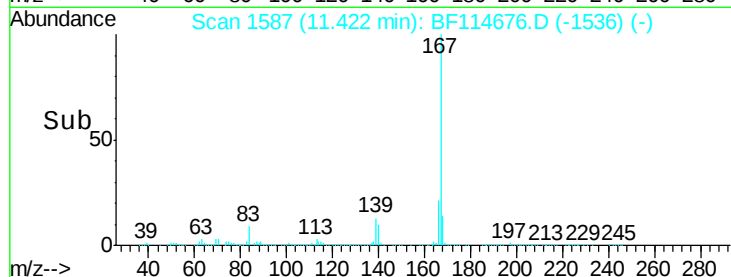
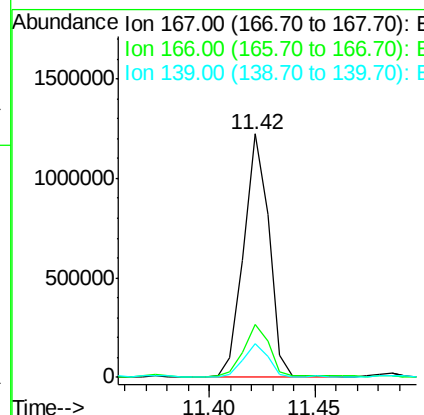
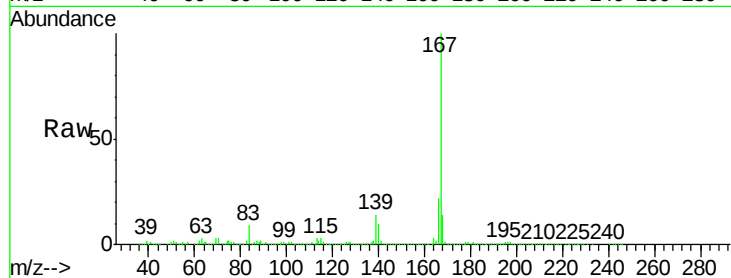
#73
 Carbazole
 Concen: 20.055 ng
 RT: 11.42 min Scan# 1587
 Delta R.T. 0.00 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Instrument :
 BNA_F
 ClientSampleId :
 B-6E(7-8)

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.7	28.1
139	13.6	11.8	17.8

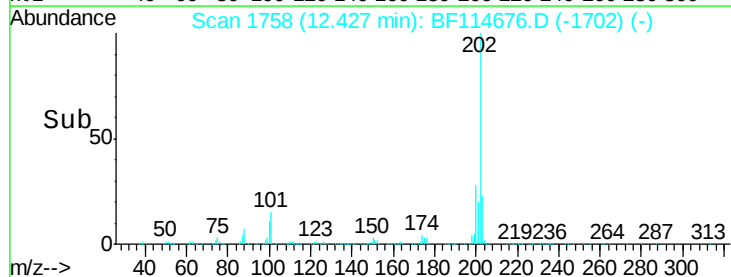
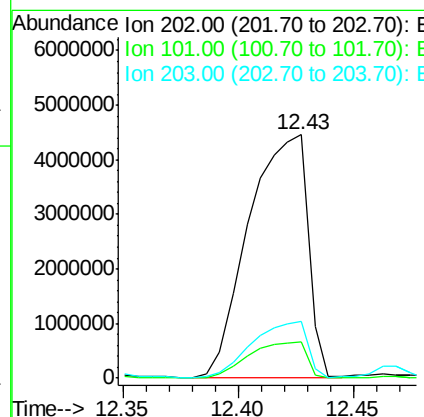
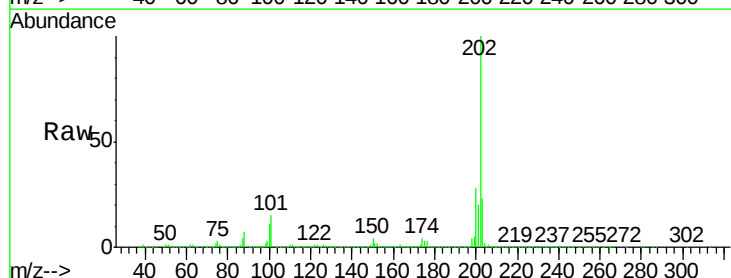
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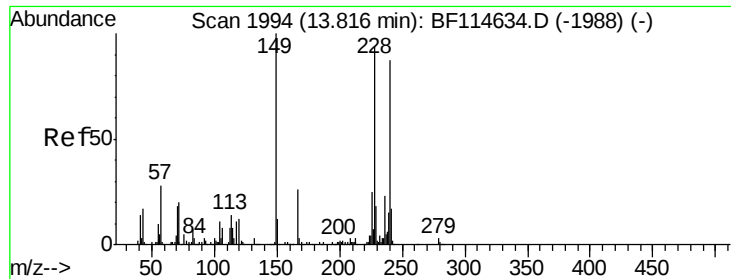
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#75
 Fluoranthene
 Concen: 134.082 ng
 RT: 12.43 min Scan# 1758
 Delta R.T. 0.03 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.8	0.0	33.9
203	23.1	0.0	39.1





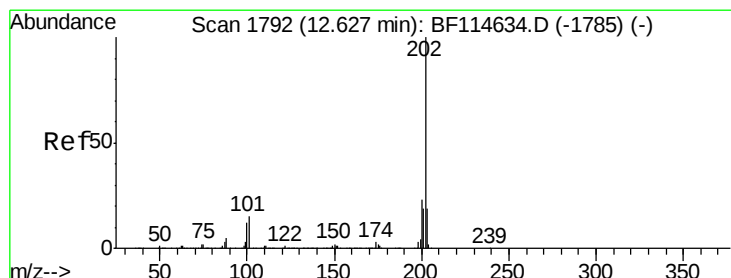
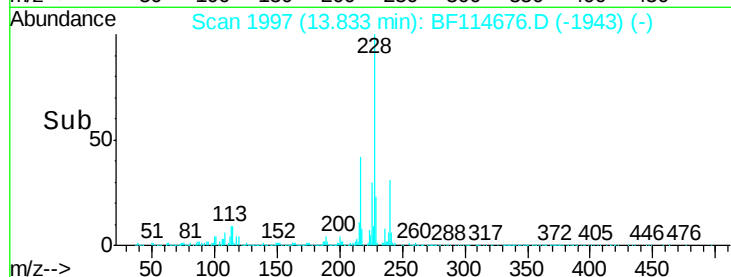
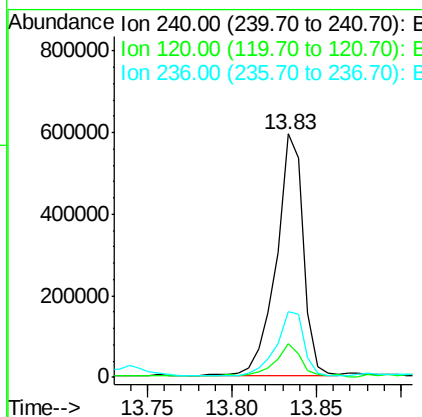
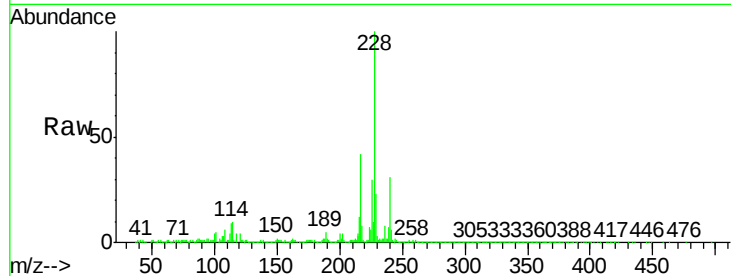
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.83 min Scan# 1997
Delta R.T. 0.02 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampleId :
B-6E(7-8)

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.0	11.2	16.8
236	26.9	21.2	31.8

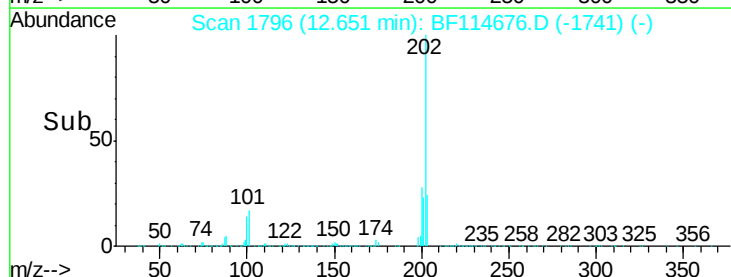
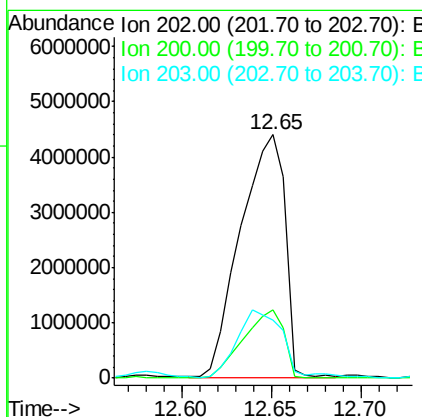
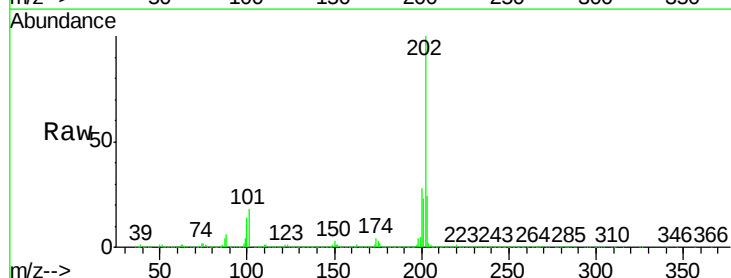
Manual Integrations
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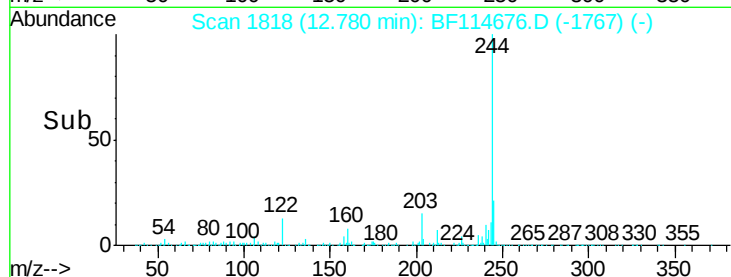
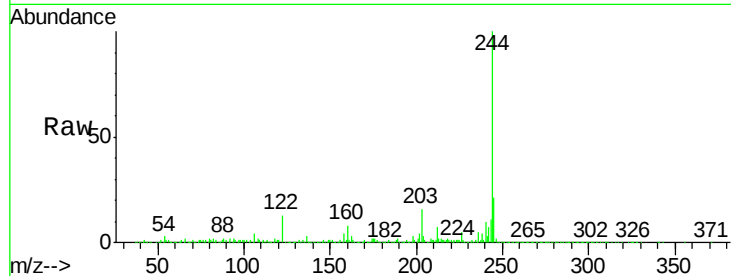
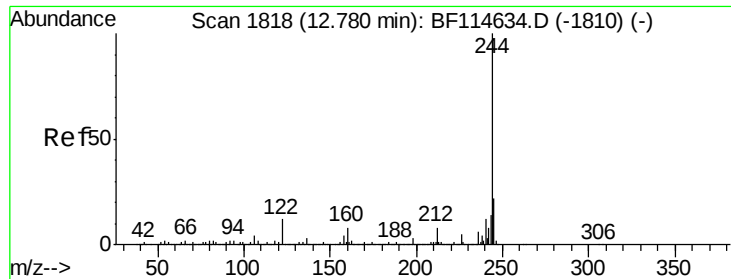
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#78
Pyrene
Concen: 137.475 ng m
RT: 12.65 min Scan# 1796
Delta R.T. 0.02 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Lower	Upper
202	100		
200	28.1	18.6	28.0#
203	23.8	15.4	23.2#





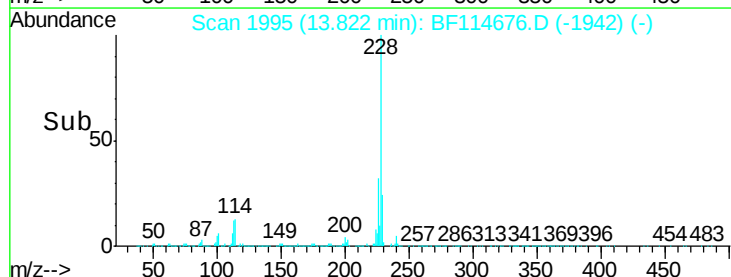
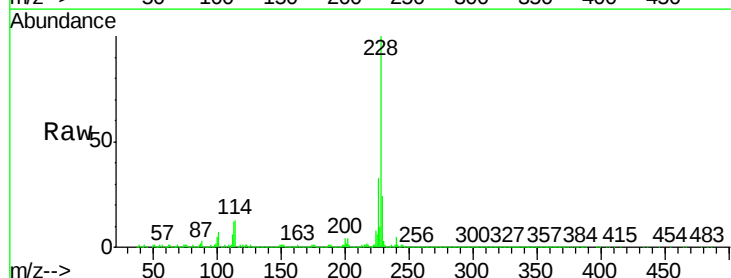
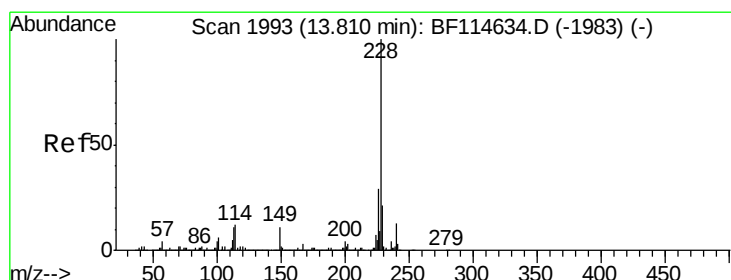
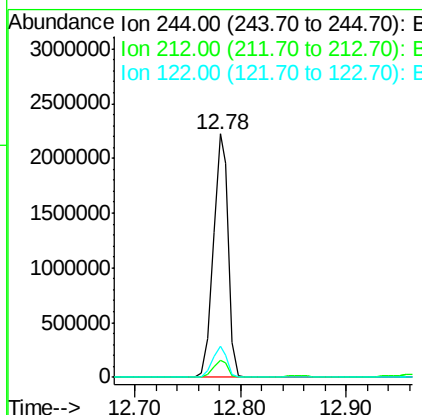
#79
 Terphenyl-d14
 Concen: 62.896 ng
 RT: 12.78 min Scan# 1818
 Delta R.T. 0.00 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Instrument :
 BNA_F
 ClientSampleId :
 B-6E(7-8)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.1	9.1
122	13.1	9.8	14.8

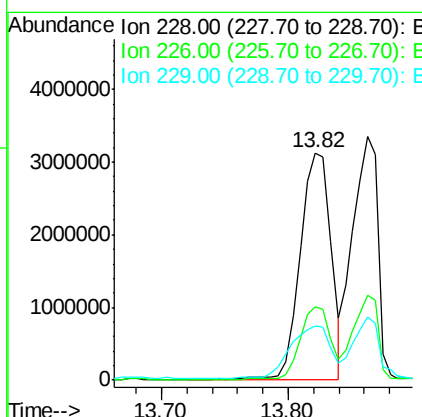
Manual Integrations
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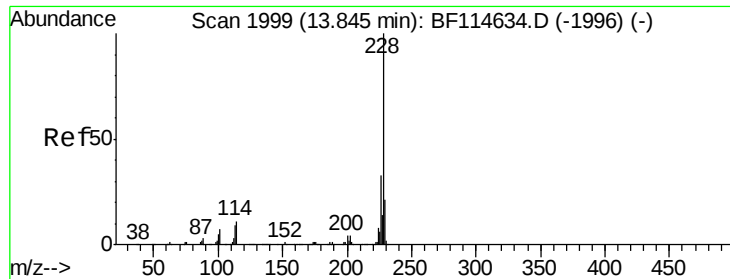
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#81
 Benzo(a)anthracene
 Concen: 103.566 ng
 RT: 13.82 min Scan# 1995
 Delta R.T. 0.01 min
 Lab File: BF114676.D
 Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.6	23.0	34.6
229	24.1	17.0	25.4





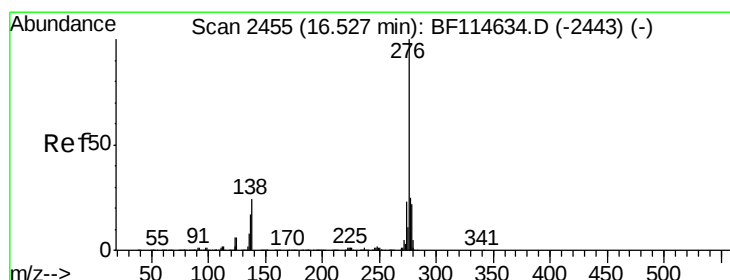
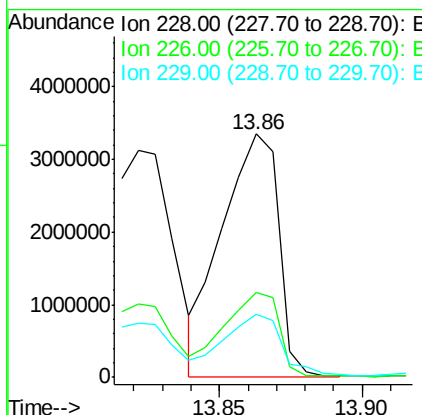
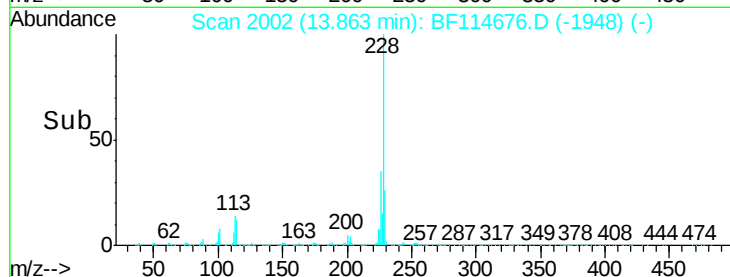
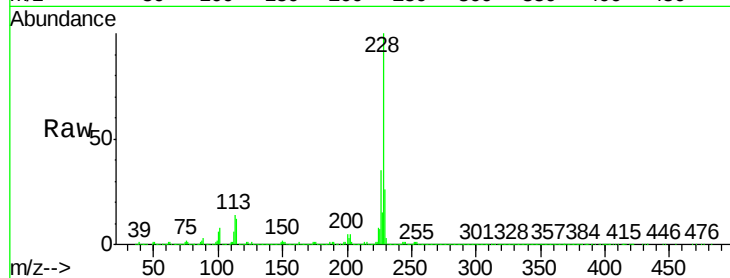
#83
Chrysene
Concen: 95.500 ng/mL
RT: 13.86 min Scan# 2002
Delta R.T. 0.02 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampleId :
B-6E(7-8)

Tot Ion:228 Resp: 4609660
Ion Ratio Lower Upper
228 100
226 34.9 26.4 39.6
229 26.1 17.1 25.7#

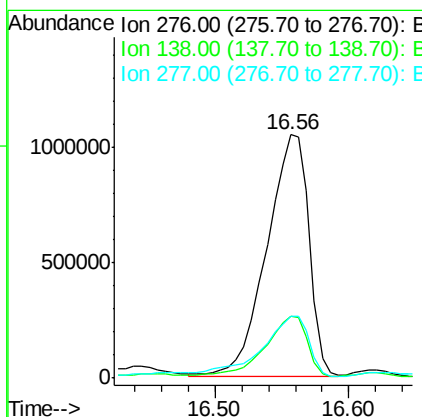
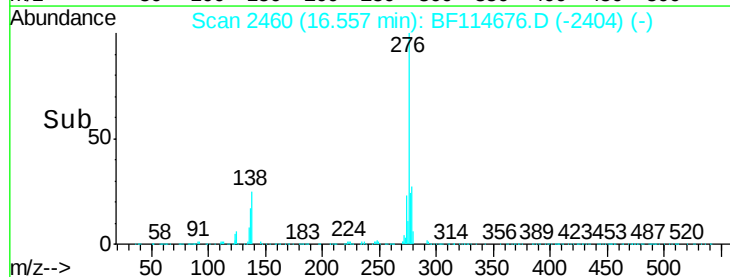
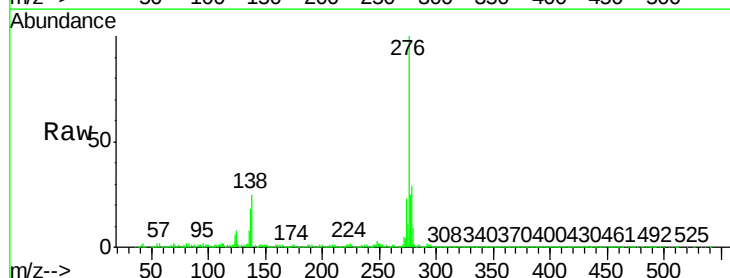
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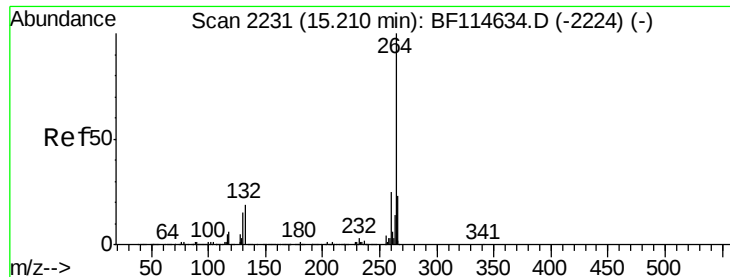
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#86
Indeno(1,2,3-cd)pyrene
Concen: 47.700 ng
RT: 16.56 min Scan# 2460
Delta R.T. 0.03 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion:276 Resp: 2305987
Ion Ratio Lower Upper
276 100
138 25.5 23.0 34.6
277 27.8 20.5 30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.22 min Scan# 2233

Delta R.T. 0.01 min

Lab File: BF114676.D

Acq: 30 May 2019 22:34

Instrument :

BNA_F

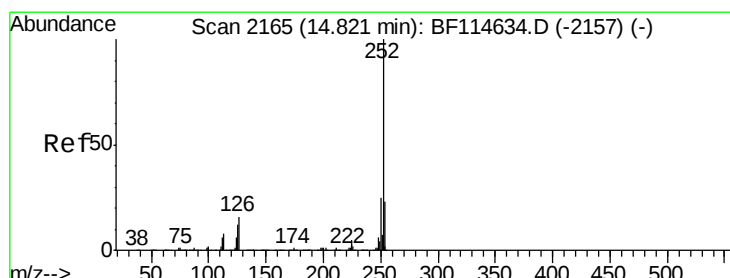
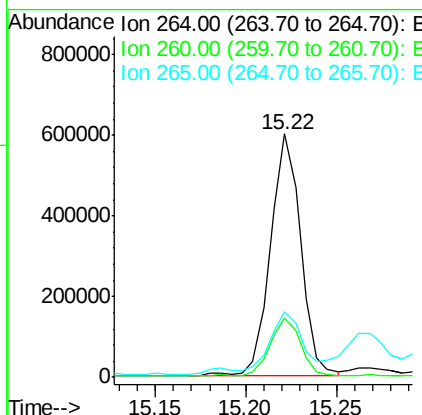
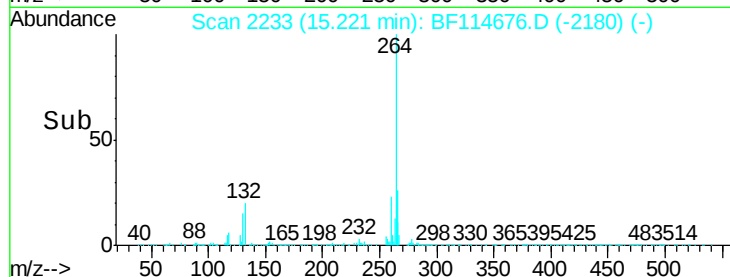
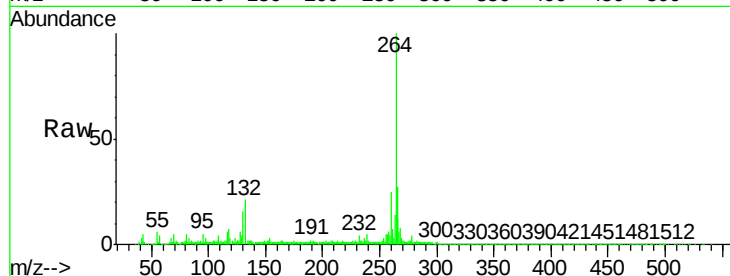
ClientSampleId :

B-6E(7-8)

Tot Ion:	264	Resp:	698973
Ion Ratio	Lower	Upper	
264	100		
260	24.6	19.7	29.5
265	27.2	18.1	27.1#

Manual Integrations
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#88

Benzo(b)fluoranthene

Concen: 122.735 ng m

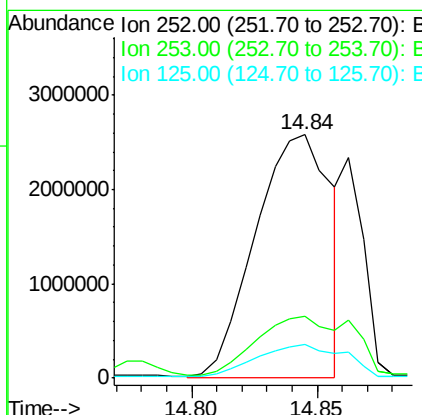
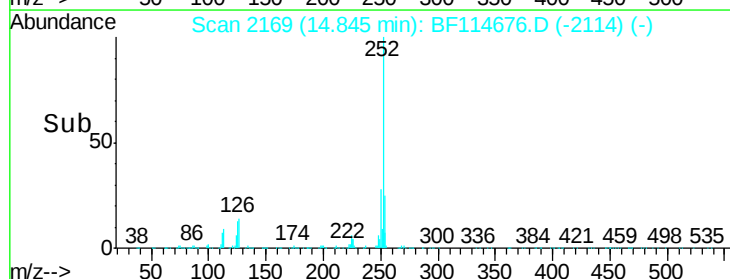
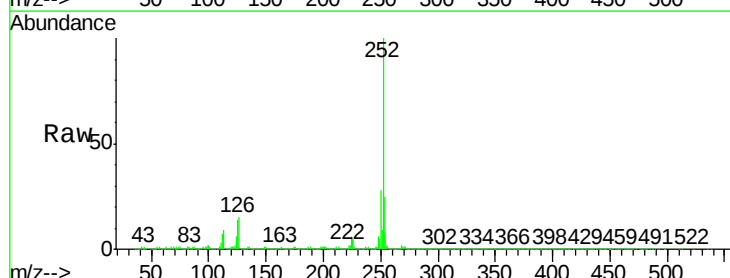
RT: 14.84 min Scan# 2169

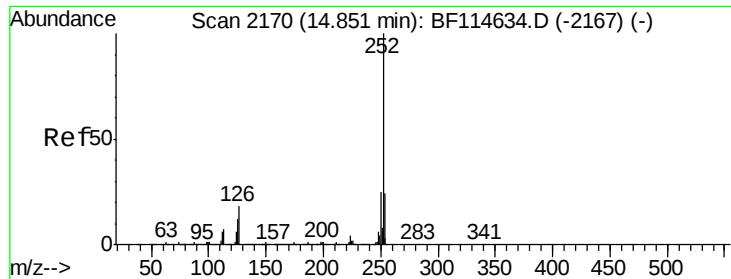
Delta R.T. 0.02 min

Lab File: BF114676.D

Acq: 30 May 2019 22:34

Tgt Ion:	252	Resp:	5403280
Ion Ratio	Lower	Upper	
252	100		
253	25.4	18.7	28.1
125	13.7	9.4	14.2





#89

Benzo(k)fluoranthene

Concen: 37.373 ng m

RT: 14.86 min Scan# 2172

Delta R.T. 0.01 min

Lab File: BF114676.D

Acq: 30 May 2019 22:34

Instrument :

BNA_F

ClientSampleId :

B-6E(7-8)

Tot Ion:252 Resp: 1430048

Ion Ratio Lower Upper

252 100

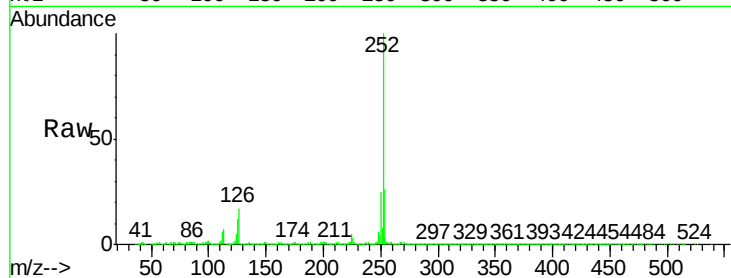
253 26.5 18.9 28.3

125 11.8 9.5 14.3

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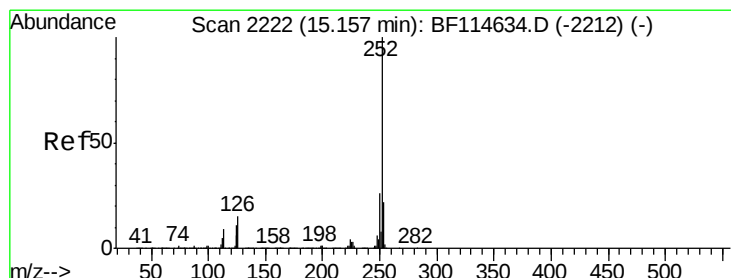
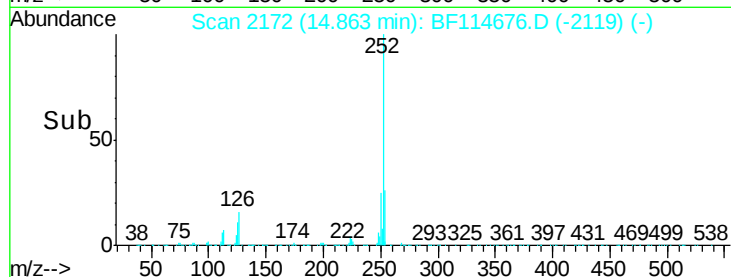
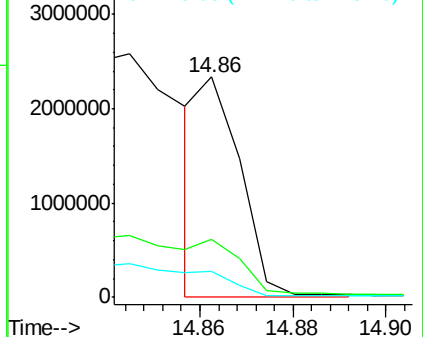
6/3/2019 8:47:33 AM



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: 93.699 ng

RT: 15.17 min Scan# 2225

Delta R.T. 0.02 min

Lab File: BF114676.D

Acq: 30 May 2019 22:34

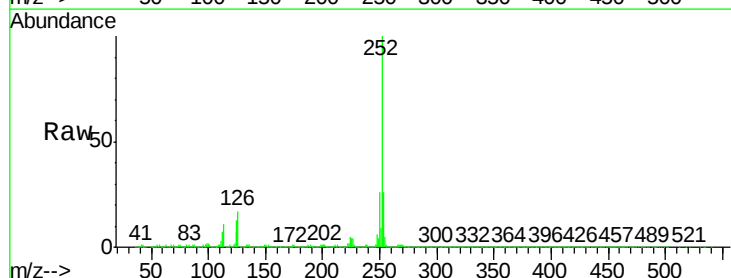
Tgt Ion:252 Resp: 3623767

Ion Ratio Lower Upper

252 100

253 25.8 18.0 27.0

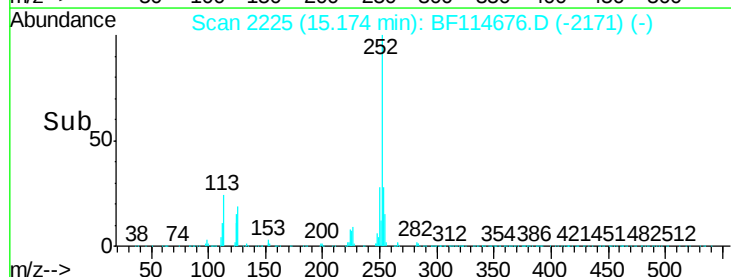
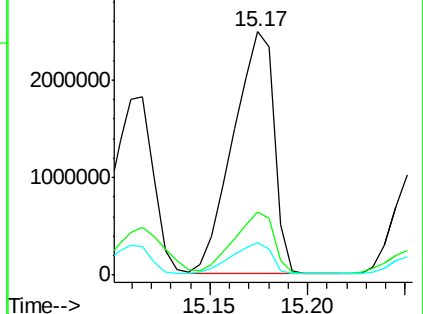
125 13.3 9.2 13.8

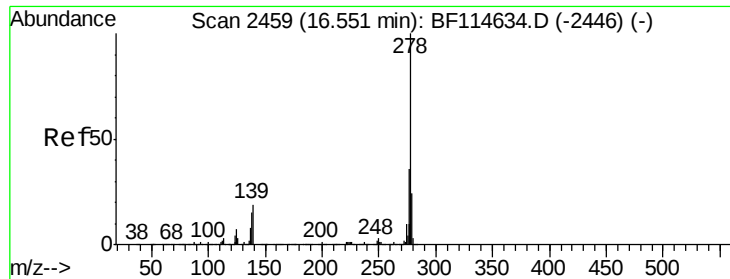


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





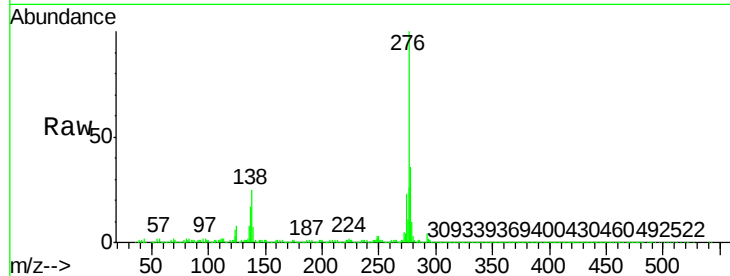
#91
Dibenzo(a,h)anthracene
Concen: 18.097 ng
RT: 16.56 min Scan# 2461
Delta R.T. 0.01 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Instrument :
BNA_F
ClientSampleId :
B-6E(7-8)

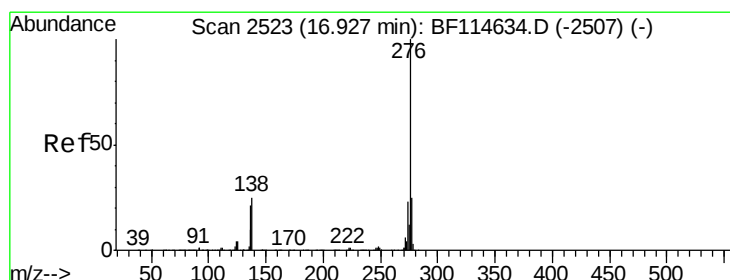
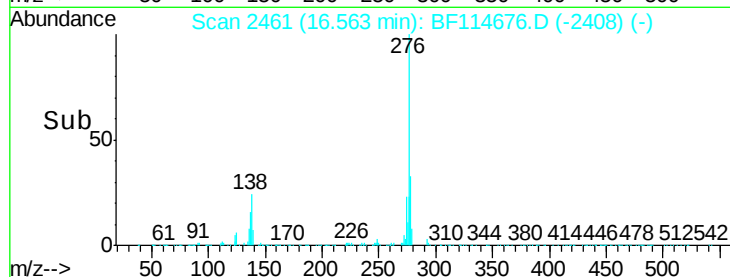
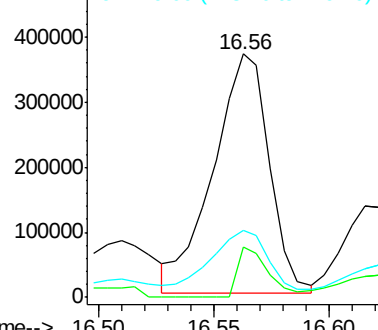
Tot Ion	Ratio	Lower	Upper
278	100		
139	20.7	14.9	22.3
279	27.3	19.5	29.3

Manual Integrations
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6/3/2019 8:47:33 AM

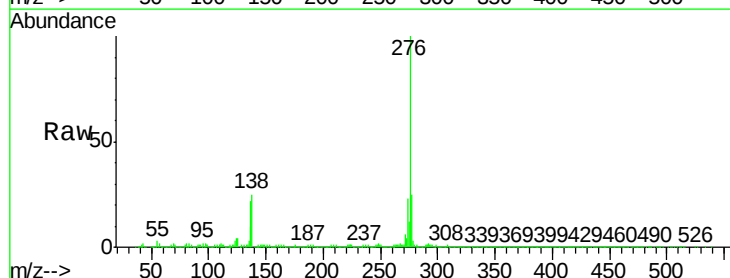


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 64.176 ng
RT: 16.96 min Scan# 2528
Delta R.T. 0.03 min
Lab File: BF114676.D
Acq: 30 May 2019 22:34

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.7	29.5
138	24.7	19.8	29.8



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

