

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012918\
 Data File : BF102594.D
 Acq On : 29 Jan 2018 13:42
 Operator : SJ/JU
 Sample : J1257-15 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-19(5-15)

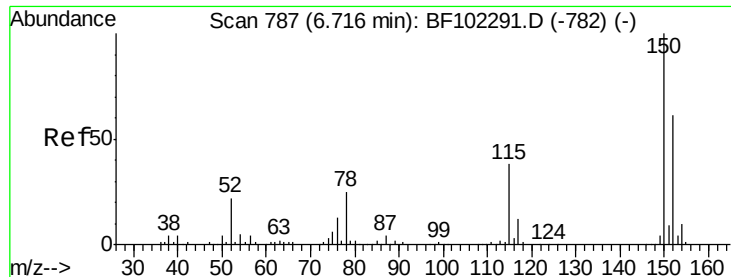
Manual Integrations
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Quant Time: Jan 30 00:57:04 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 27 20:48:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	168981	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	672602	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	245344	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	334618	20.00	ng	0.00
75) Chrysene-d12	13.90	240	252343	20.00	ng	0.02
86) Perylene-d12	15.35	264	213320	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	594699	53.36	ng	0.00
7) Phenol-d6	6.36	99	699958	52.10	ng	0.00
23) Nitrobenzene-d5	7.28	82	397170	33.93	ng	0.00
41) 2,4,6-Tribromophenol	10.55	330	86852	35.73	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	688701	41.27	ng	0.00
78) Terphenyl-d14	12.83	244	418055	37.35	ng	0.01
Target Compounds						Qvalue
10) Phenol	6.37	94	31009	2.114	ng	90
31) Naphthalene	8.02	128	266783	7.944	ng	99
37) 2-Methylnaphthalene	8.71	142	125377	5.606	ng	96
48) Acenaphthylene	9.62	152	151541	5.704	ng	99
49) Dimethylphthalate	9.47	163	85121	4.197	ng	99
51) Acenaphthene	9.79	154	118763	7.655	ng	99
54) Dibenzofuran	9.96	168	128564	6.123	ng	# 97
57) Fluorene	10.30	166	247035	14.847	ng	99
70) Phenanthrene	11.27	178	1401073	71.854	ng	100
71) Anthracene	11.32	178	351512	17.662	ng	99
72) Carbazole	11.48	167	171918	8.854	ng	97
74) Fluoranthene	12.47	202	1418823	71.354	ng	100
77) Pyrene	12.70	202	1407072	72.120	ng	99
80) Benzo(a)anthracene	13.89	228	631245	40.631	ng	95
82) Chrysene	13.93	228	589268	37.351	ng	97
85) Indeno(1,2,3-cd)pyrene	16.77	276	211299	16.217	ng	97
87) Benzo(b)fluoranthene	14.94	252	576888m	41.724	ng	
88) Benzo(k)fluoranthene	14.95	252	217695m	16.665	ng	
89) Benzo(a)pyrene	15.29	252	388126	31.125	ng	# 87
90) Dibenzo(a,h)anthracene	16.76	278	63967	6.333	ng	# 66
91) Benzo(g,h,i)perylene	17.19	276	203167	20.370	ng	92

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



#1

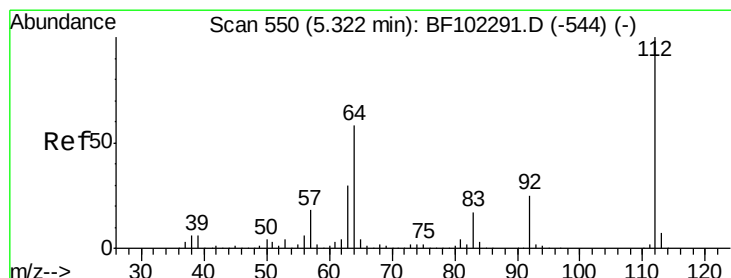
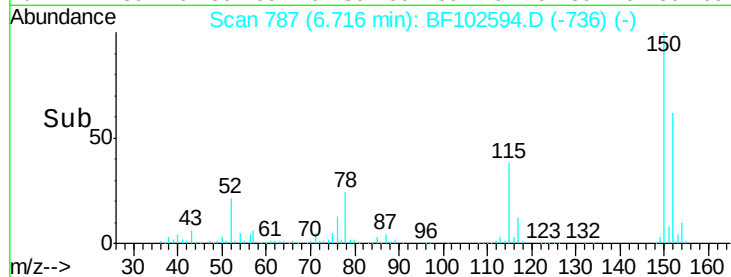
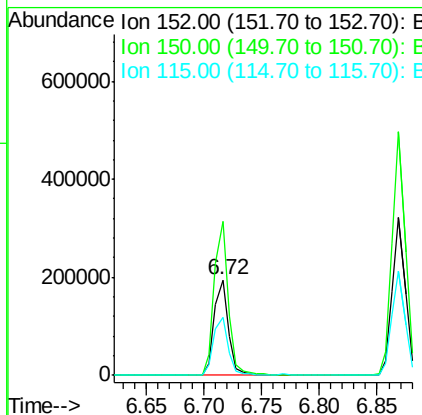
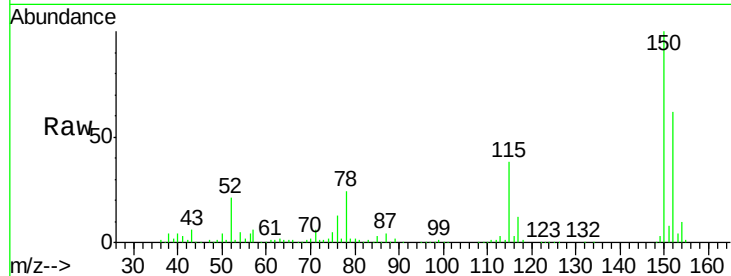
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampleId :
WC-19(5-15)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.7	124.6	186.8
115	61.0	50.1	75.1

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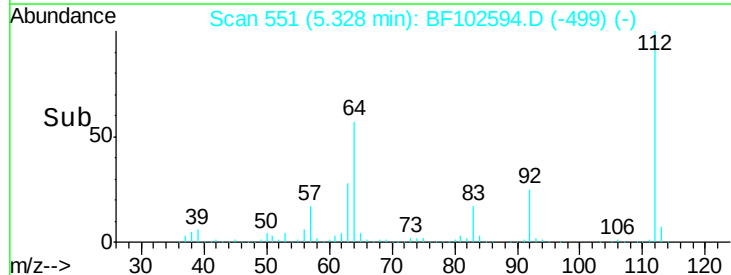
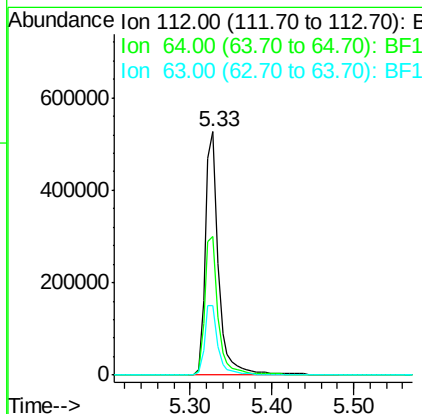
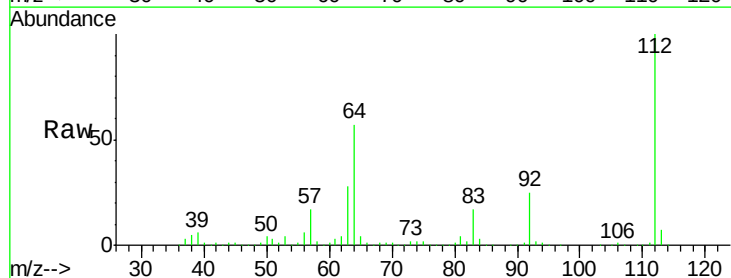
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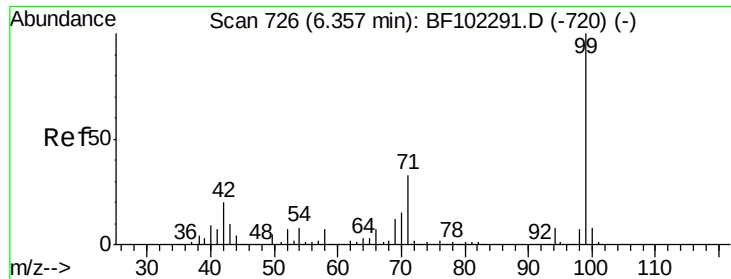


#5

2-Fluorophenol
Concen: 53.362 ng
RT: 5.33 min Scan# 551
Delta R.T. 0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.9	47.9	71.9
63	28.5	23.7	35.5





#7

Phenol-d6

Concen: 52.096 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.00 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Instrument :

BNA_F

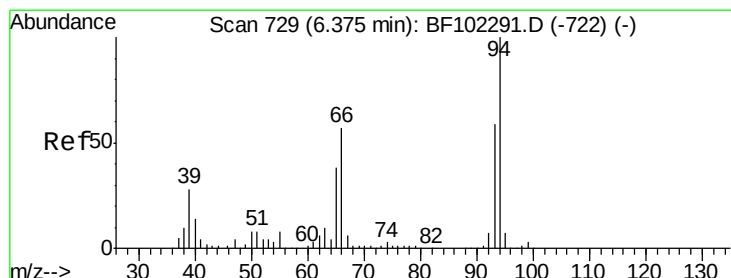
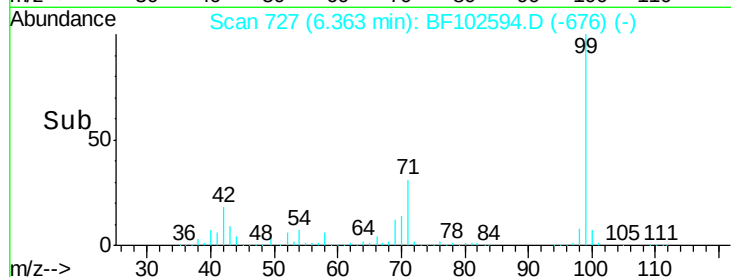
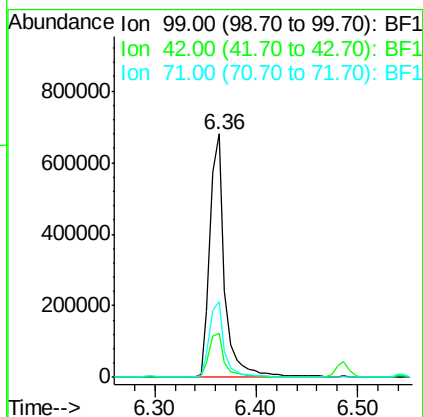
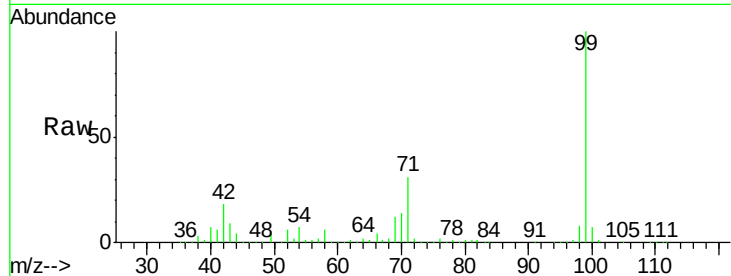
ClientSampled :

WC-19(5-15)

Tgt Ion:	99	Resp:	699958
Ion Ratio	Lower	Upper	
99	100		
42	18.0	14.5	21.7
71	31.4	25.4	38.0

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#10

Phenol

Concen: 2.114 ng

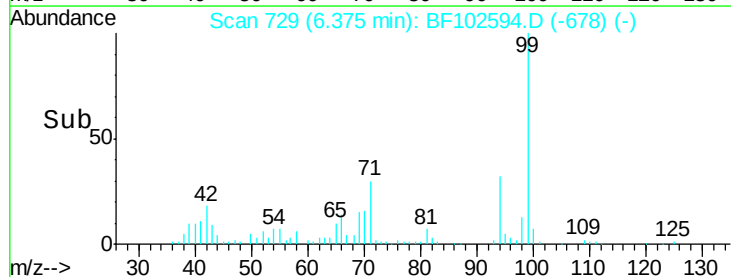
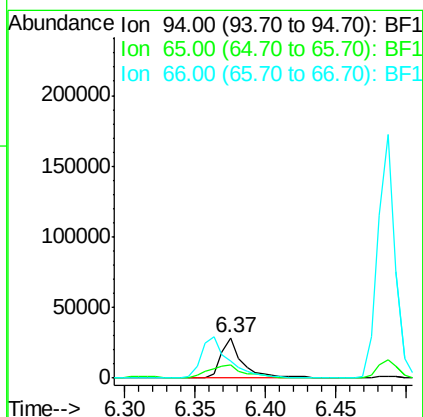
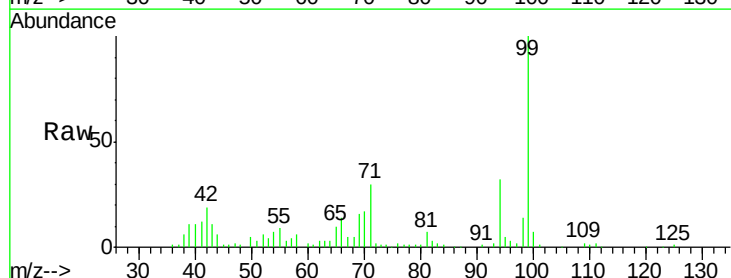
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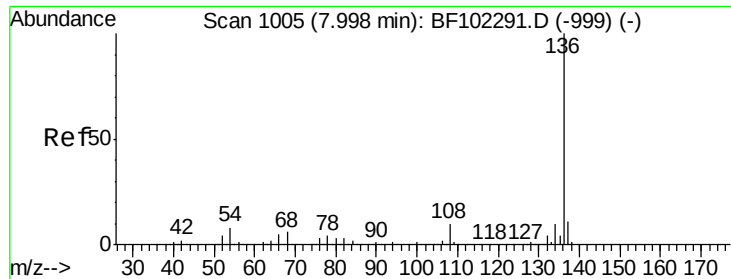
Delta R.T. -0.00 min

Lab File: BF102594.D

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Tgt Ion:	94	Resp:	31009
Ion Ratio	Lower	Upper	
94	100		
65	31.8	7.9	47.9
66	43.8	16.2	56.2





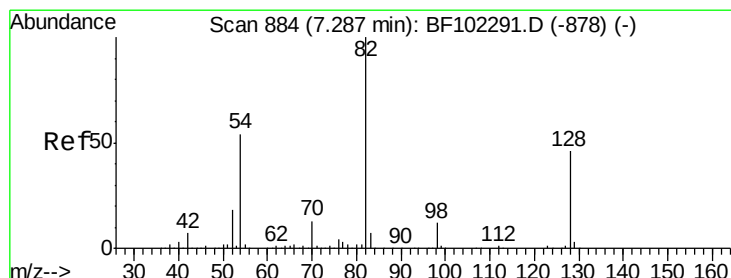
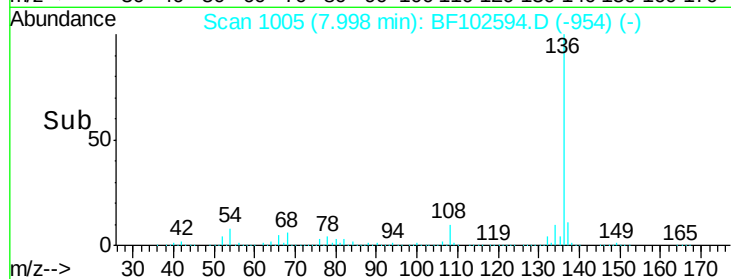
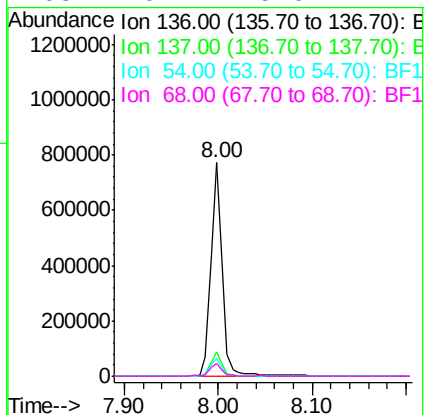
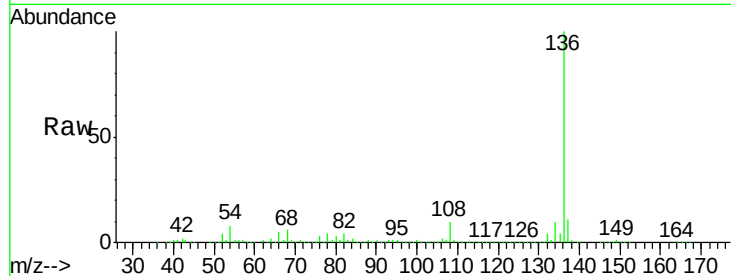
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampleId :
WC-19(5-15)

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	672602		
137	11.2	8.9	13.3	
54	8.5	6.6	9.8	
68	6.1	5.0	7.4	

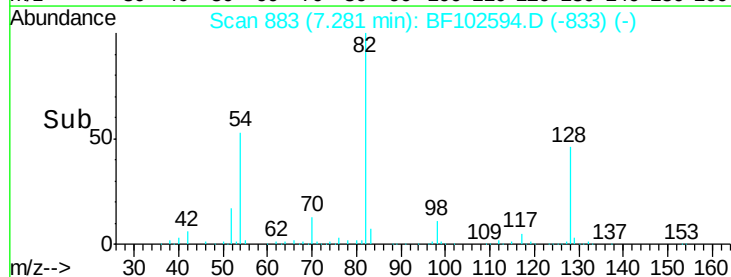
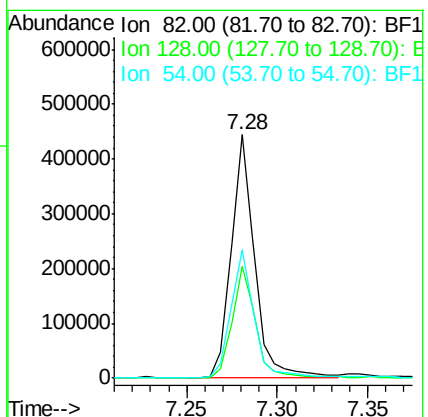
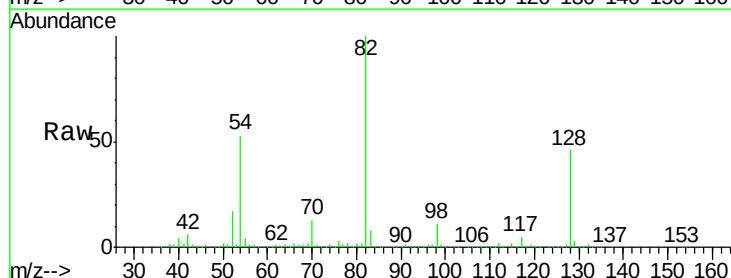
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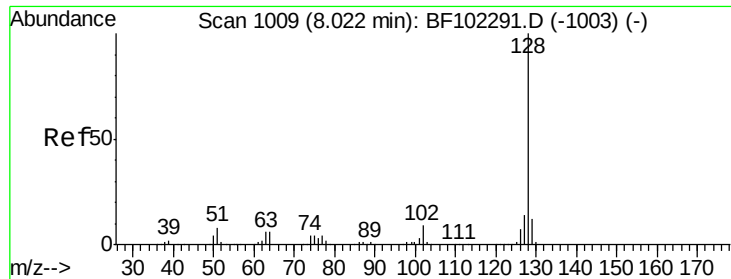
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#23
Nitrobenzene-d5
Concen: 33.934 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	397170		
128	46.0	36.1	54.1	
54	52.8	41.4	62.2	





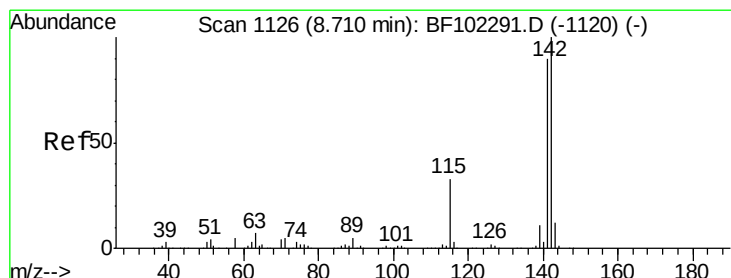
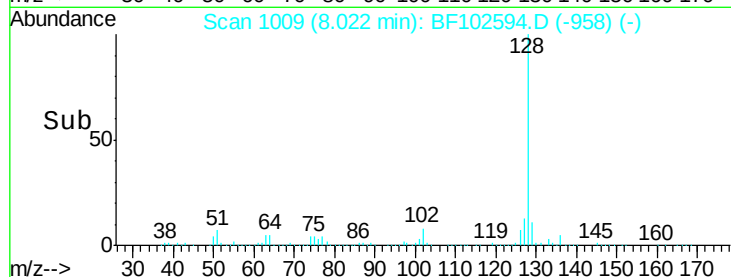
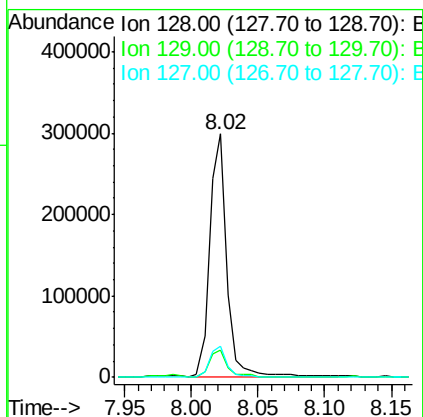
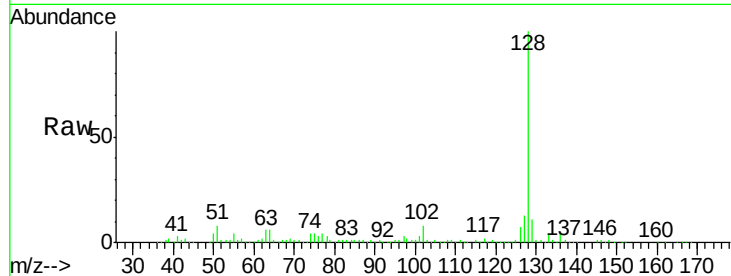
#31
Naphthalene
Concen: 7.944 ng
RT: 8.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampleId :
WC-19(5-15)

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	266783		
129	11.1		8.8	13.2
127	12.7		10.9	16.3

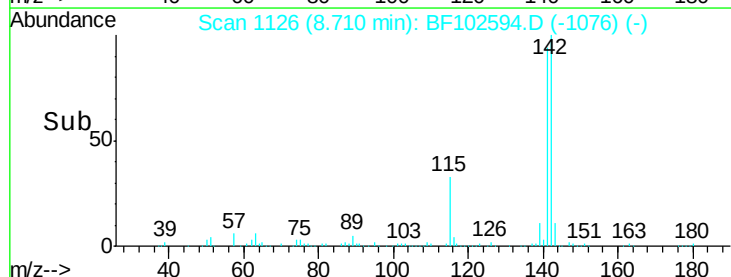
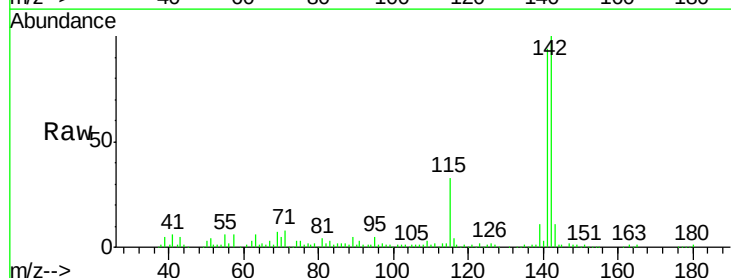
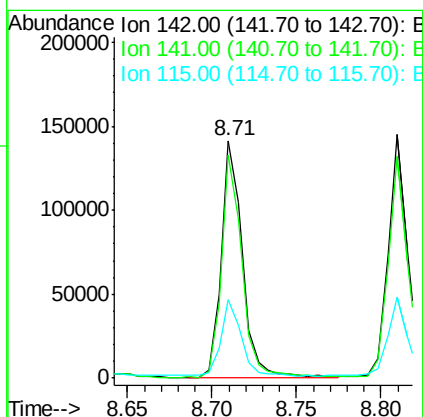
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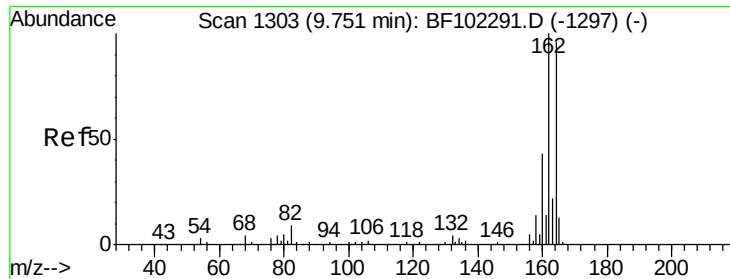
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#37
2-Methylnaphthalene
Concen: 5.606 ng
RT: 8.71 min Scan# 1126
Delta R.T. -0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	125377		
141	94.0		70.8	106.2
115	33.0		26.1	39.1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.00 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Instrument :

BNA_F

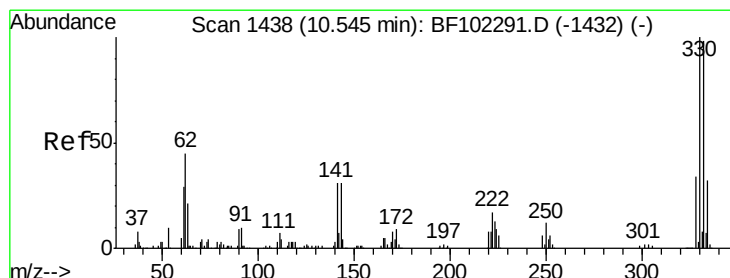
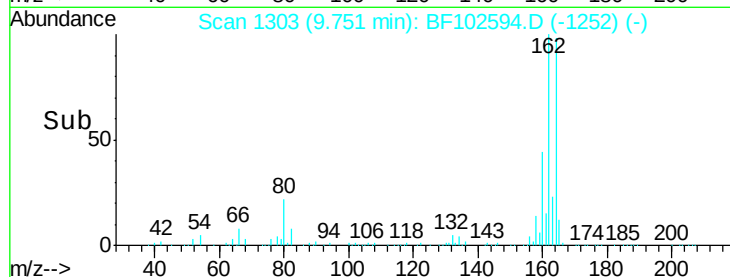
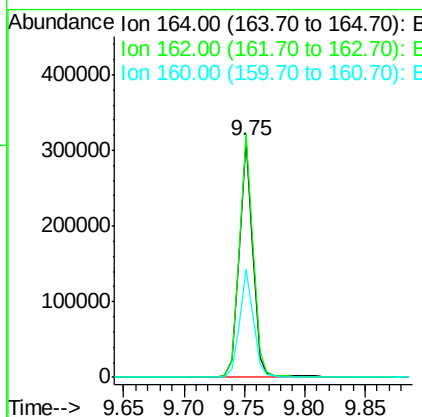
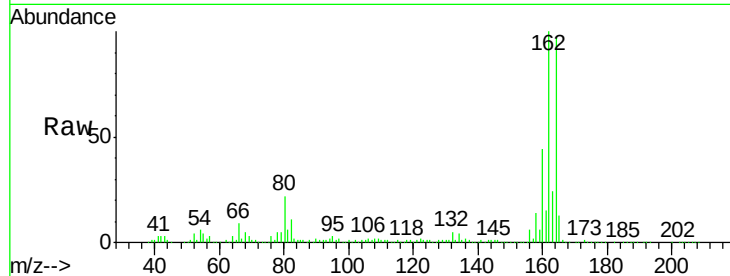
ClientSampleId :

WC-19(5-15)

Tgt Ion:	164	Resp:	245344
Ion Ratio	Lower	Upper	
164	100		
162	102.9	86.1	129.1
160	45.6	38.3	57.5

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#41

2,4,6-Tribromophenol

Concen: 35.727 ng

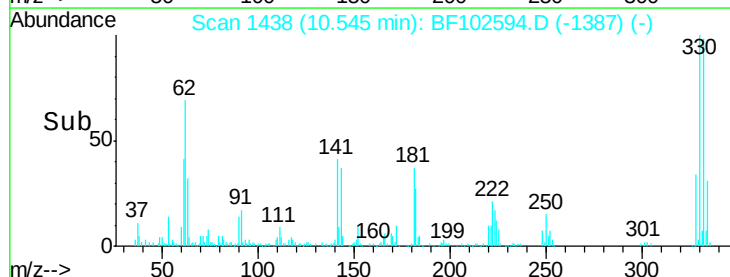
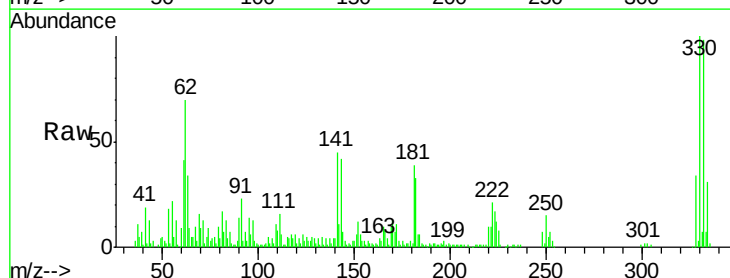
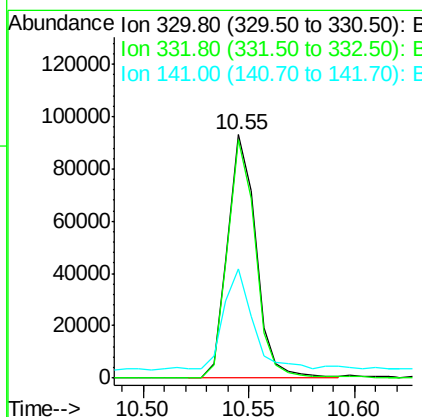
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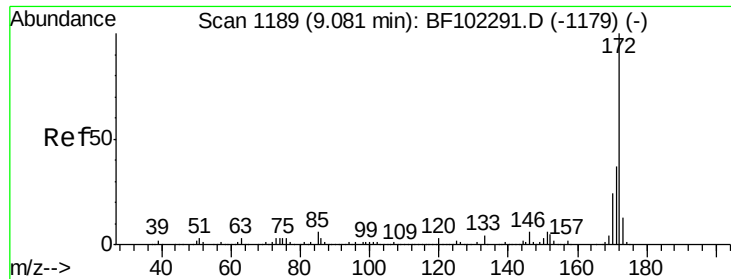
Delta R.T. -0.00 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Tgt Ion:	330	Resp:	86852
Ion Ratio	Lower	Upper	
330	100		
332	97.5	77.0	115.6
141	42.5	29.9	44.9





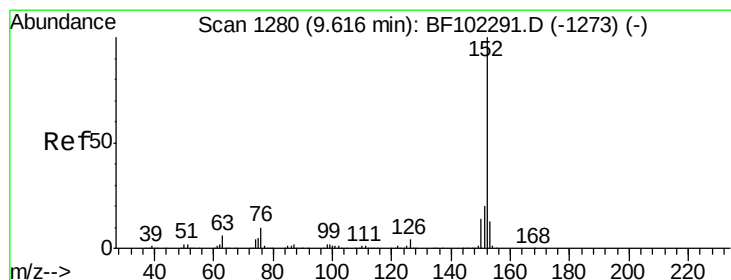
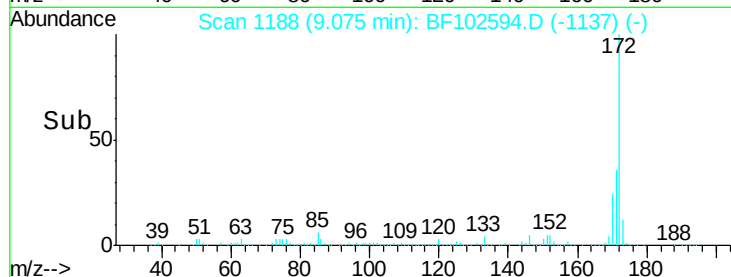
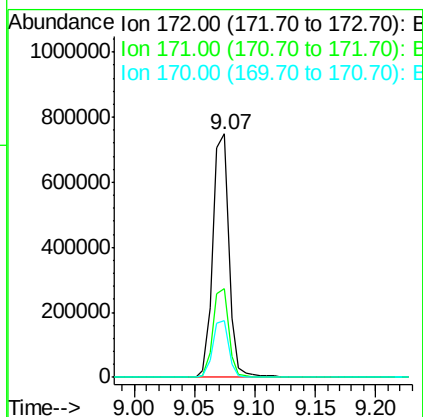
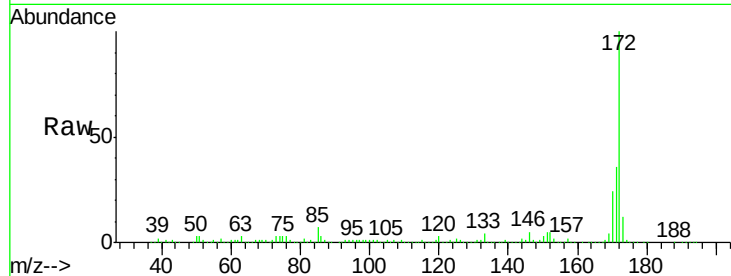
#44
2-Fluorobiphenyl
Concen: 41.274 ng
RT: 9.07 min Scan# 1188
Delta R.T. -0.00 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampleId :
WC-19(5-15)

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.7	44.5
170	23.5	19.6	29.4

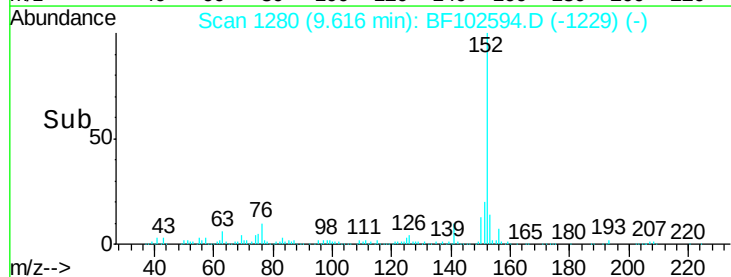
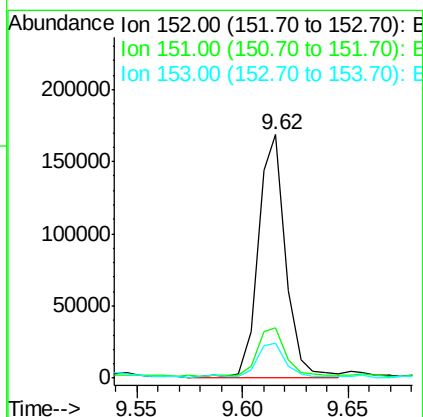
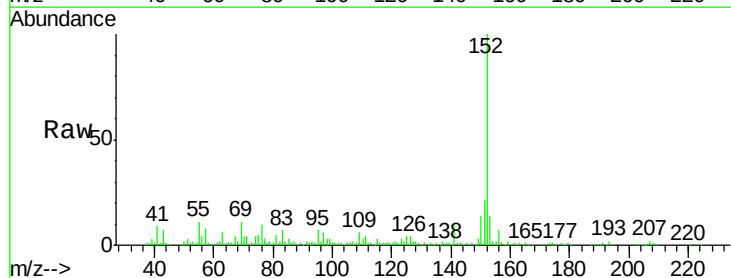
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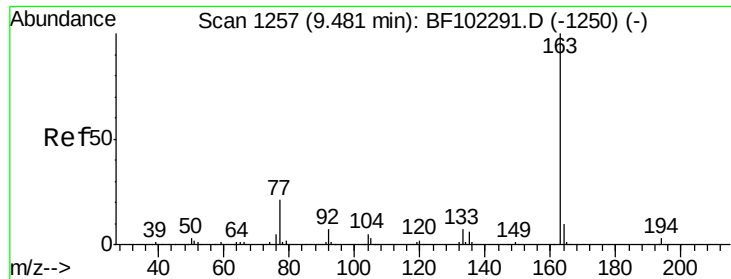
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#48
Acenaphthylene
Concen: 5.704 ng
RT: 9.62 min Scan# 1280
Delta R.T. -0.00 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.3	24.5
153	14.3	10.7	16.1





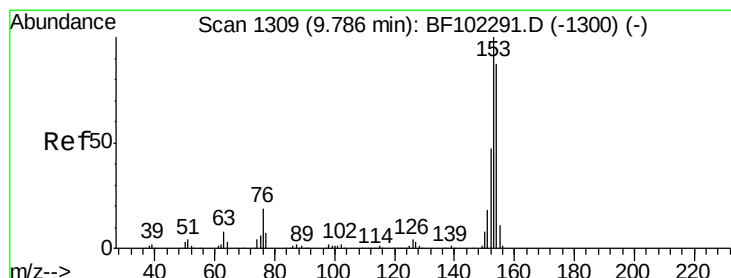
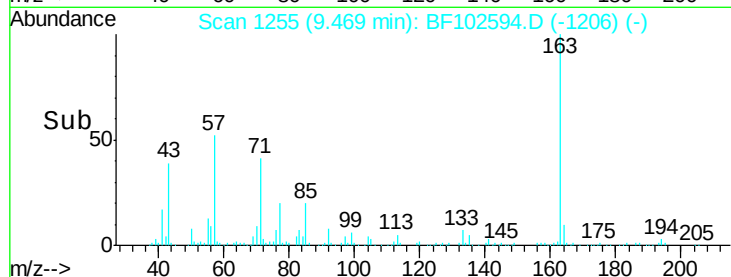
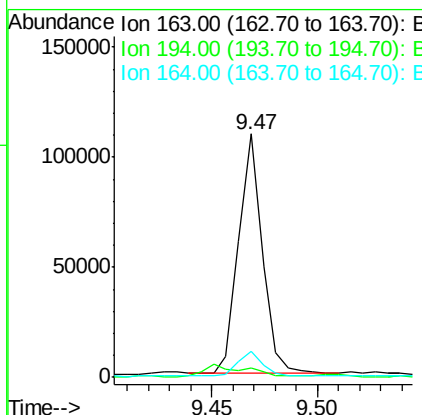
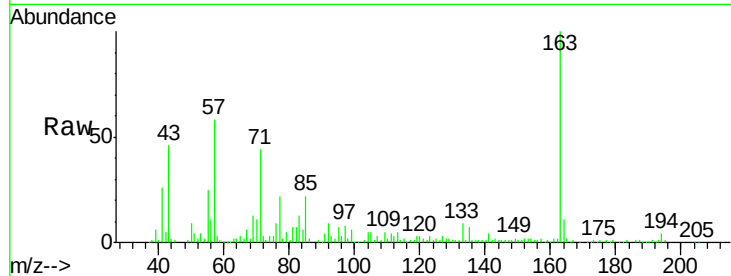
#49
Dimethylphthalate
Concen: 4.197 ng
RT: 9.47 min Scan# 1255
Delta R.T. -0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampled :
WC-19(5-15)

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	85121		
194	3.9	2.7	4.1	
164	10.5	8.2	12.2	

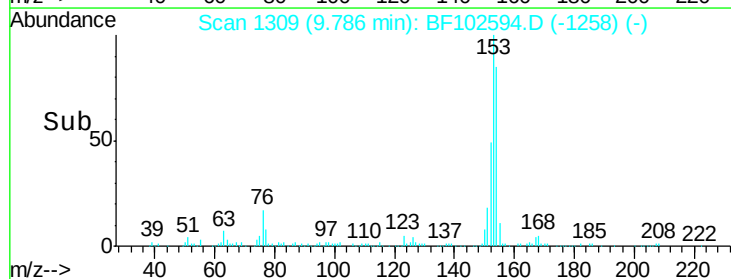
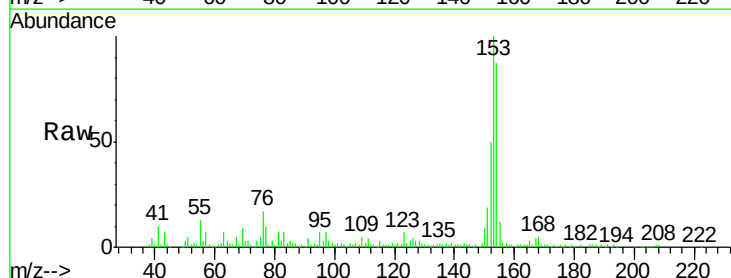
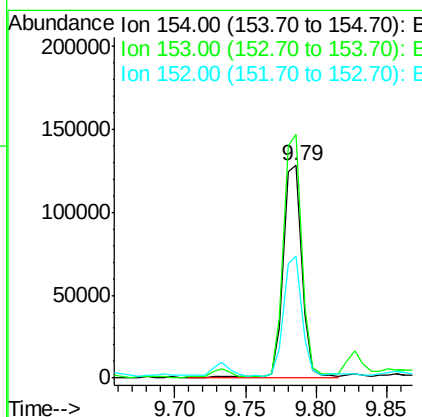
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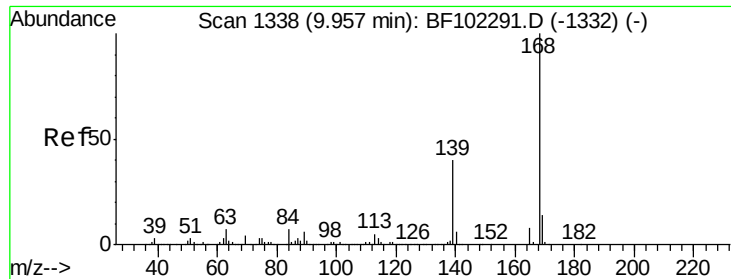
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#51
Acenaphthene
Concen: 7.655 ng
RT: 9.79 min Scan# 1309
Delta R.T. -0.00 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	118763		
153	114.5	91.2	136.8	
152	57.4	43.8	65.8	





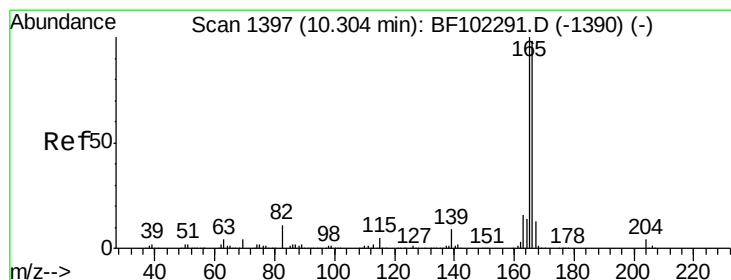
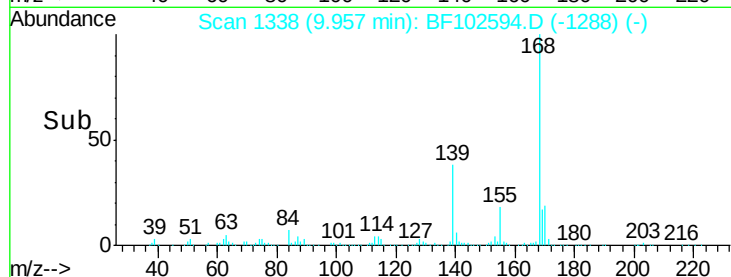
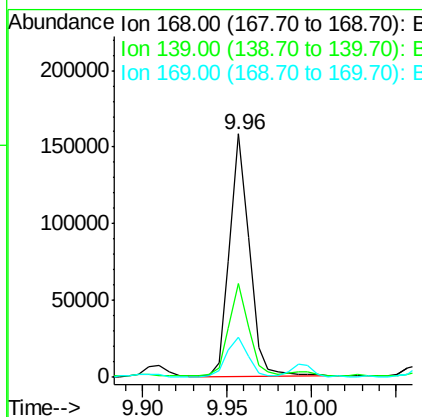
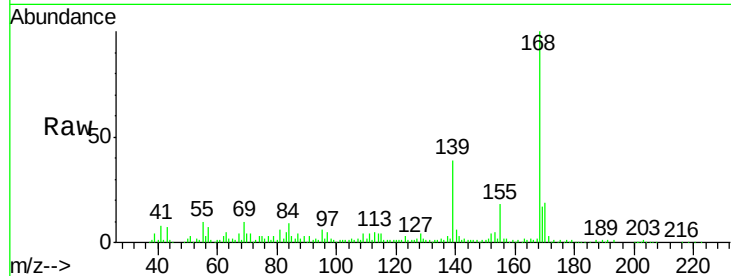
#54
Dibenzofuran
Concen: 6.123 ng
RT: 9.96 min Scan# 1338
Delta R.T. -0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampleId :
WC-19(5-15)

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	128564		
139	38.8	30.1	45.1	
169	16.6	10.9	16.3	

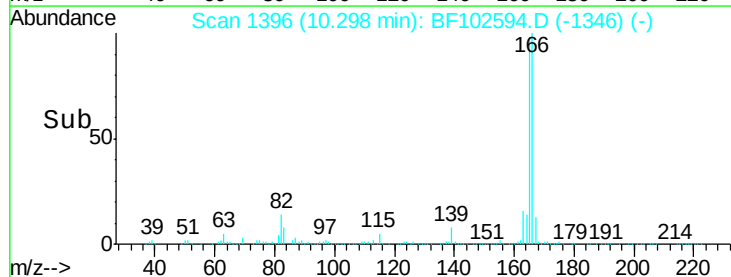
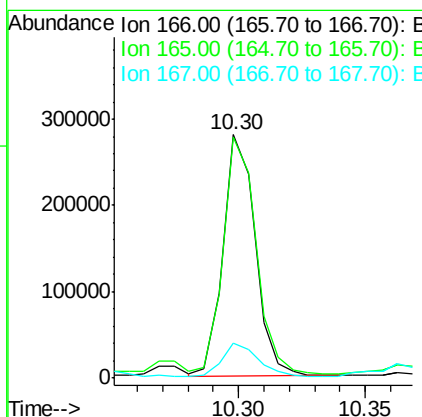
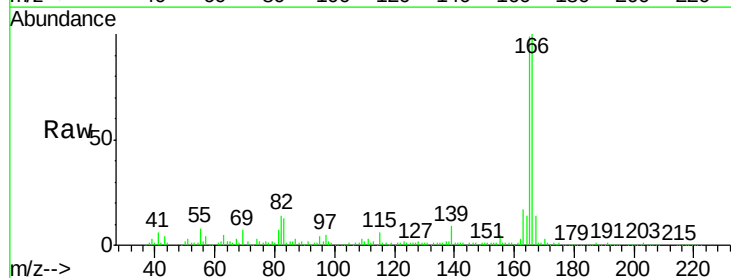
Manual Integrations
APPROVED

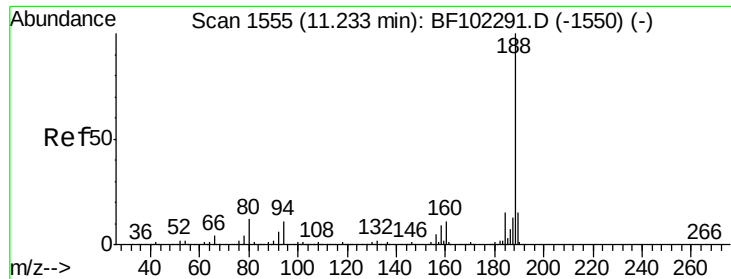
Sohil
1/30/2018 3:36:28 PM



#57
Fluorene
Concen: 14.847 ng
RT: 10.30 min Scan# 1396
Delta R.T. -0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	247035		
165	98.8	79.8	119.8	
167	14.2	10.6	16.0	





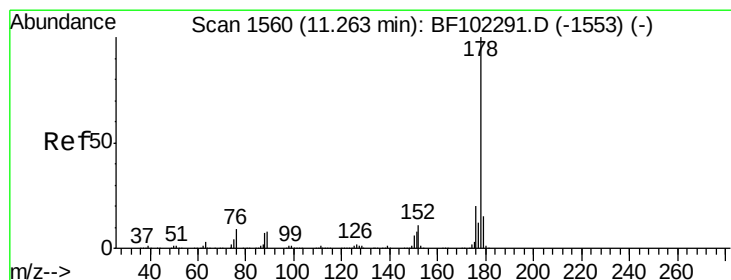
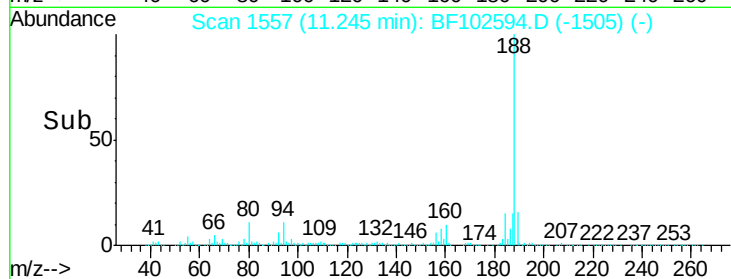
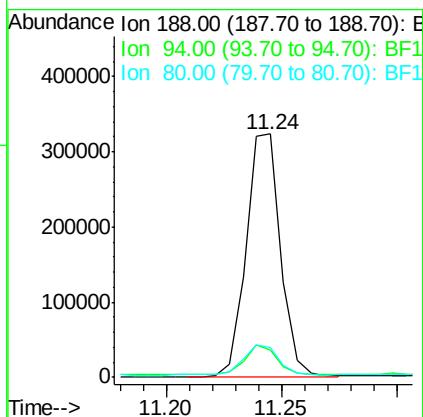
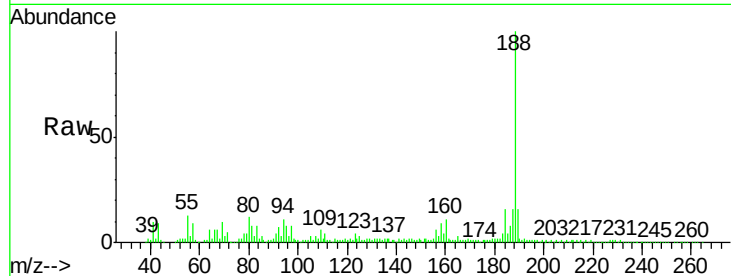
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1557
Delta R.T. 0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampleId :
WC-19(5-15)

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	334618		
94	11.4	8.5	12.7	
80	12.1	9.2	13.8	

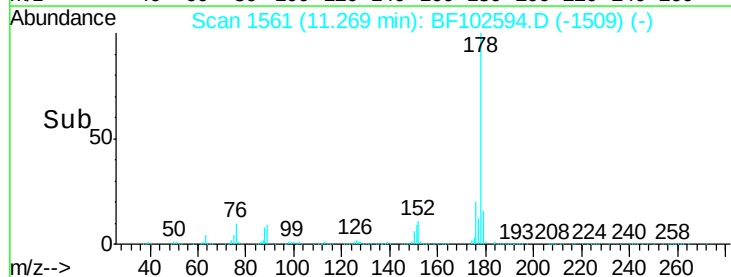
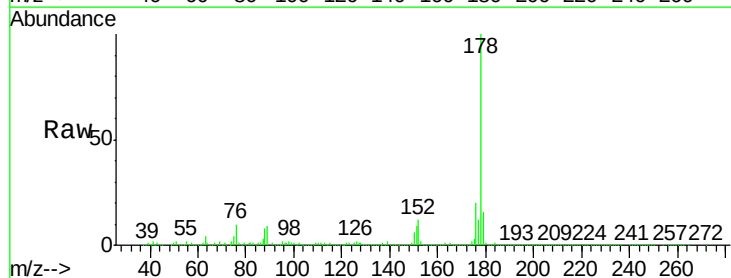
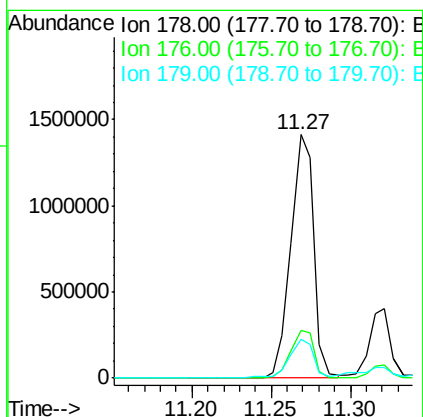
Manual Integrations
APPROVED

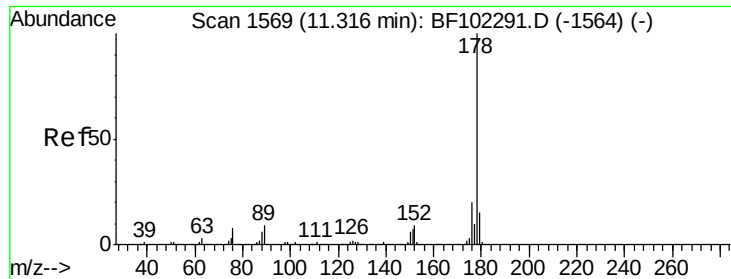
Sohil
1/30/2018 3:36:28 PM



#70
Phenanthrene
Concen: 71.854 ng
RT: 11.27 min Scan# 1561
Delta R.T. 0.01 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1401073		
176	19.8	15.8	23.8	
179	16.2	13.0	19.6	





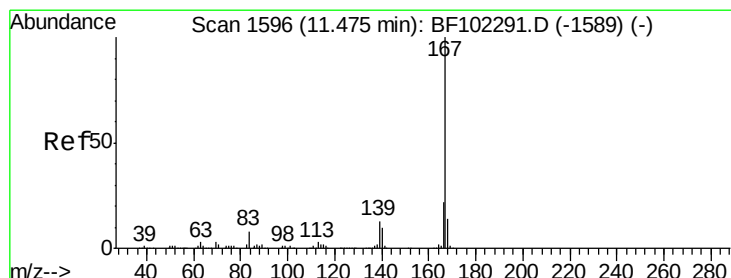
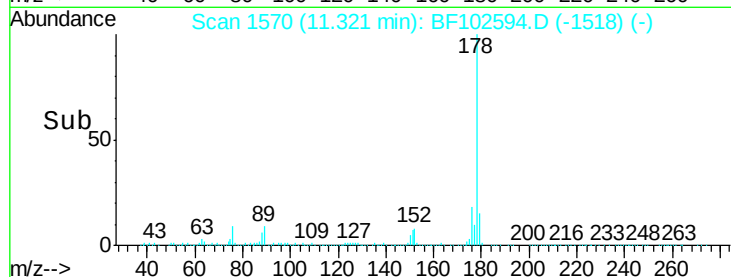
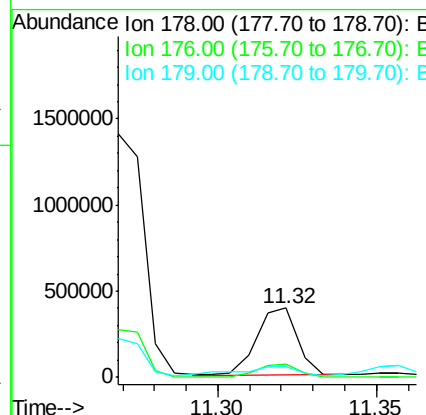
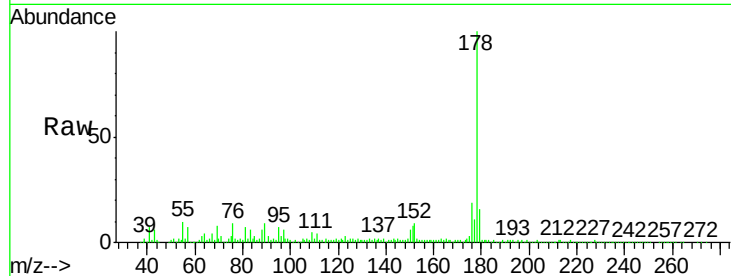
#71
 Anthracene
 Concen: 17.662 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: BF102594.D
 Acq: 29 Jan 2018 13:42

Instrument :
 BNA_F
 ClientSampleId :
 WC-19(5-15)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	16.0	12.6	19.0

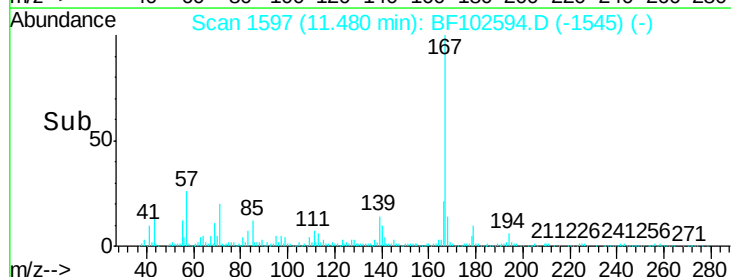
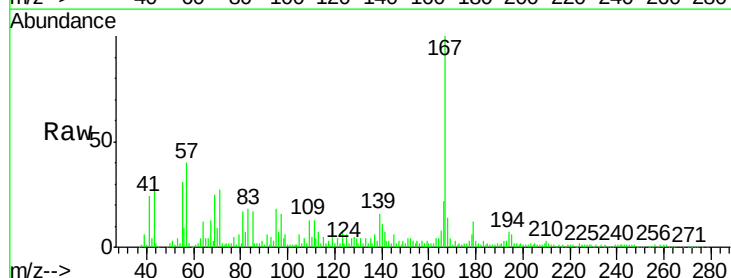
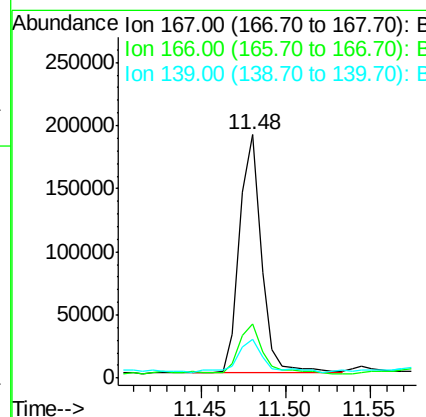
Manual Integrations
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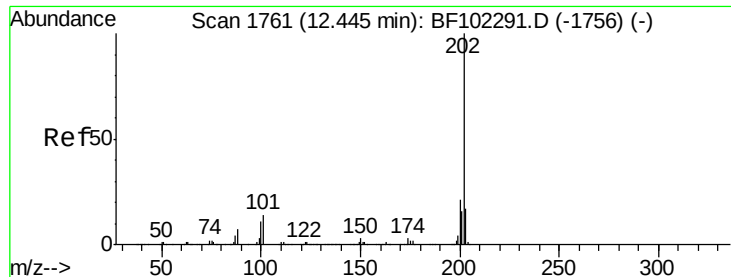
Sohil
 1/30/2018 3:36:28 PM



#72
 Carbazole
 Concen: 8.854 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. 0.01 min
 Lab File: BF102594.D
 Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.6	26.4
139	15.9	10.9	16.3





#74

Fluoranthene

Concen: 71.354 ng

RT: 12.47 min Scan# 1765

Delta R.T. 0.02 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Instrument :

BNA_F

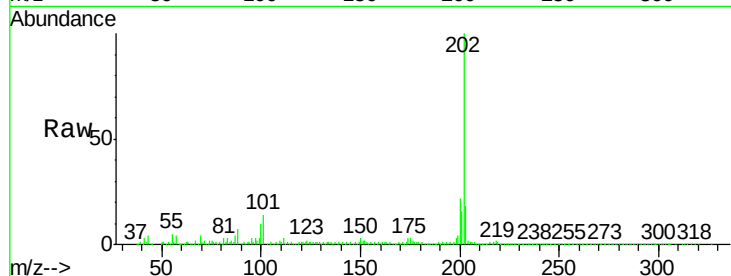
ClientSampleId :

WC-19(5-15)

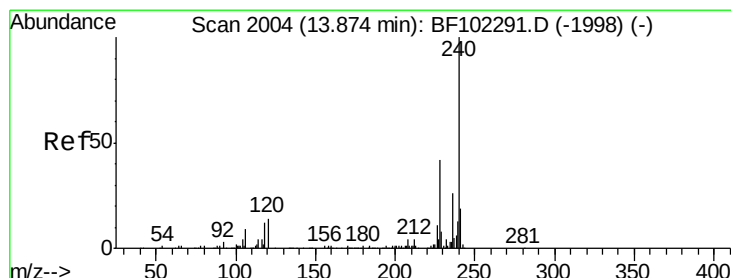
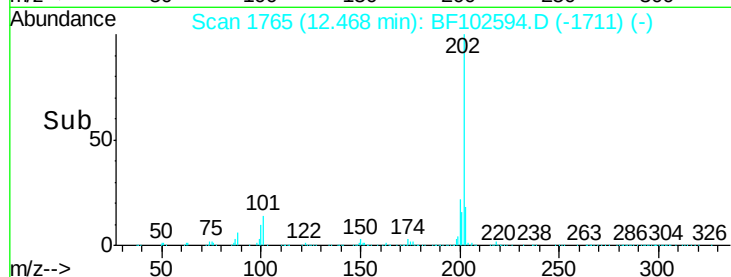
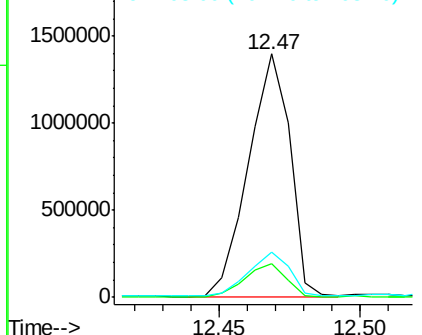
Tgt	Ion	Resp	Lower	Upper
202	100			
101	14.1	0.0	34.1	
203	18.4	0.0	38.1	

Manual Integrations
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1/30/2018 3:36:28 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

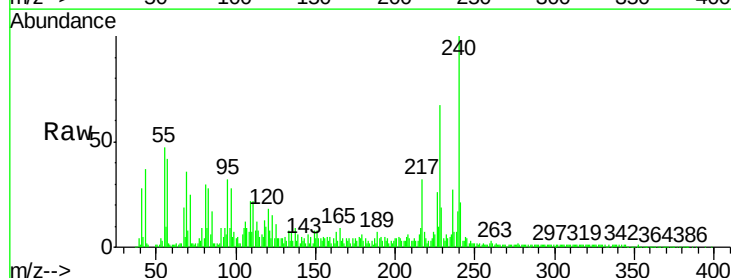
RT: 13.90 min Scan# 2009

Delta R.T. 0.02 min

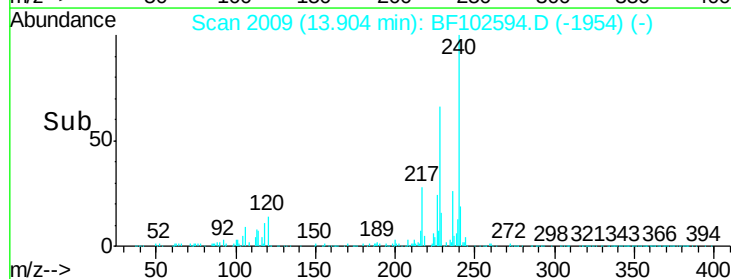
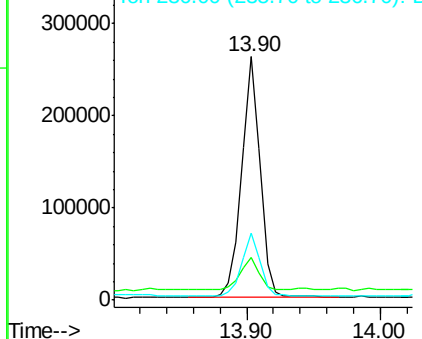
Lab File: BF102594.D

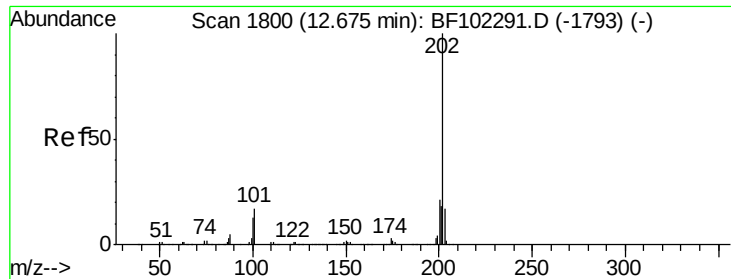
Acq: 29 Jan 2018 13:42

Tgt	Ion	Resp	Lower	Upper
240	100			
120	17.6	9.5	14.3#	
236	27.4	20.7	31.1	



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





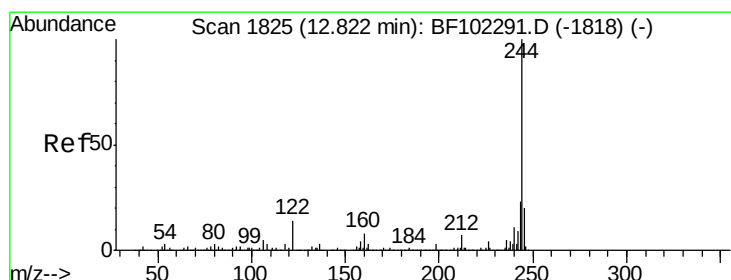
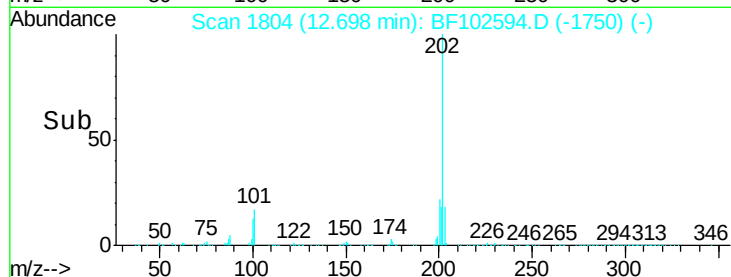
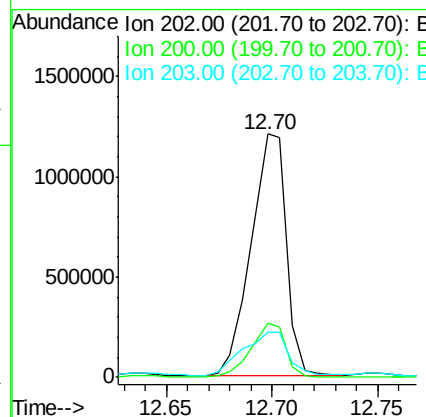
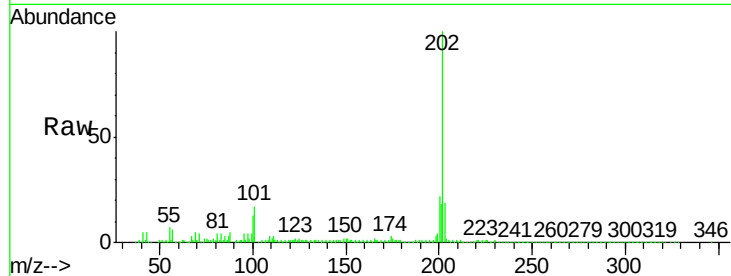
#77
 Pyrene
 Concen: 72.120 ng
 RT: 12.70 min Scan# 1804
 Delta R.T. 0.02 min
 Lab File: BF102594.D
 Acq: 29 Jan 2018 13:42

Instrument :
 BNA_F
 ClientSampleId :
 WC-19(5-15)

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.4	26.2
203	18.6	14.3	21.5

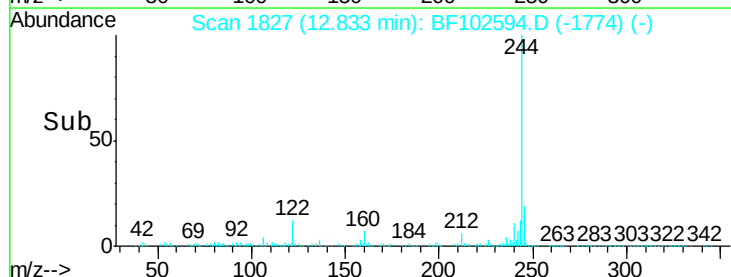
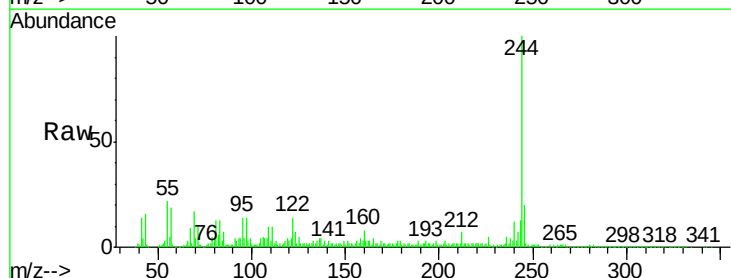
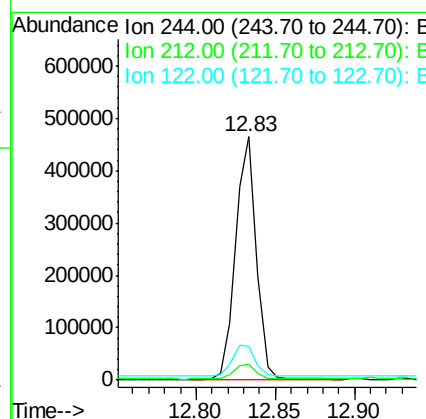
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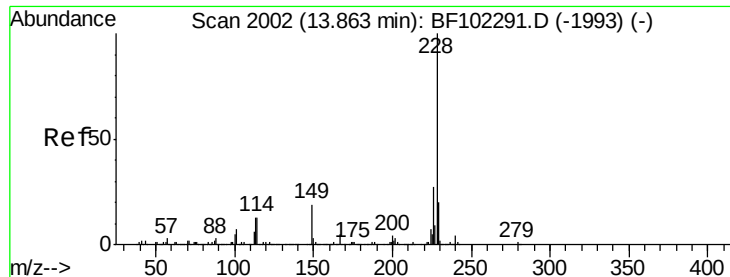
Sohil
 1/30/2018 3:36:28 PM



#78
 Terphenyl-d14
 Concen: 37.348 ng
 RT: 12.83 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: BF102594.D
 Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	13.6	11.0	16.4





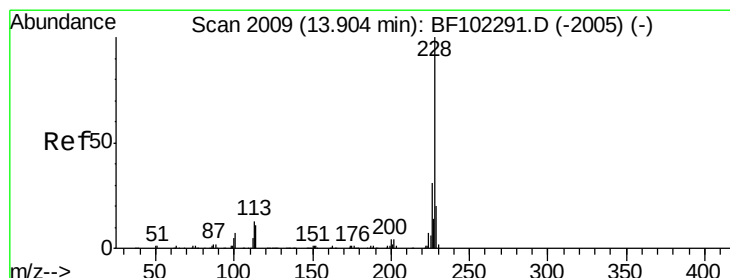
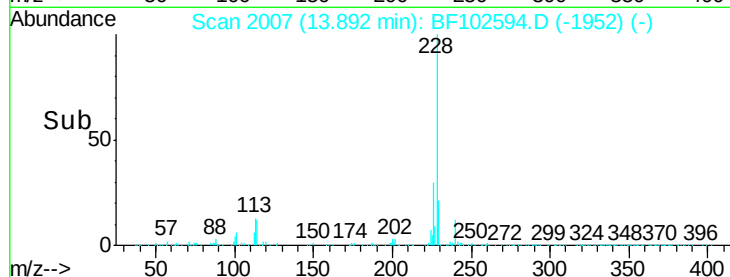
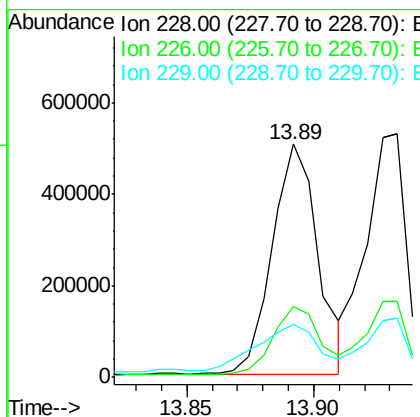
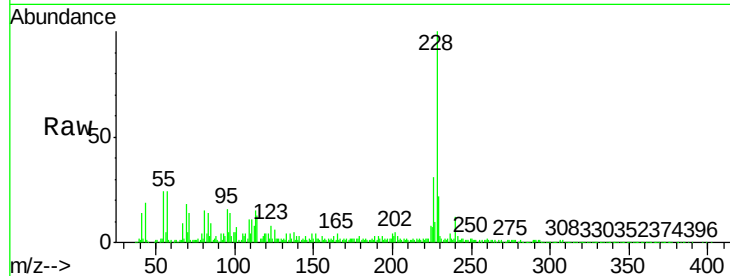
#80
Benzo(a)anthracene
Concen: 40.631 ng
RT: 13.89 min Scan# 2007
Delta R.T. 0.02 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampled :
WC-19(5-15)

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	22.6	33.8
229	22.5	15.8	23.6

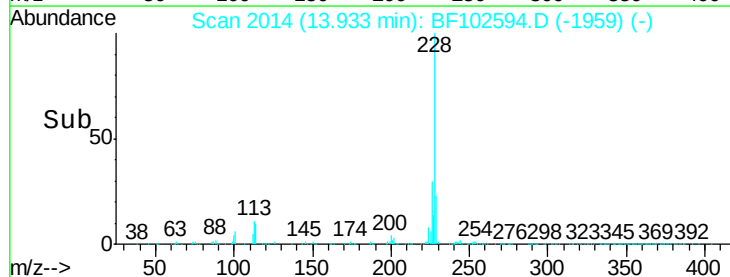
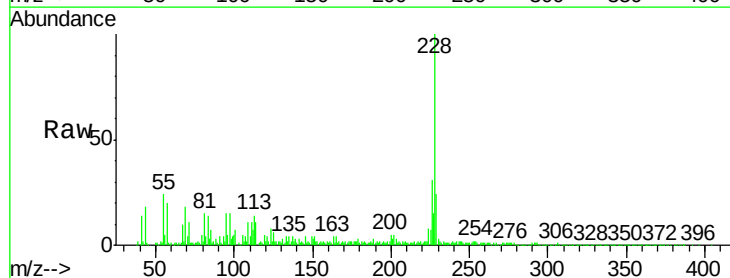
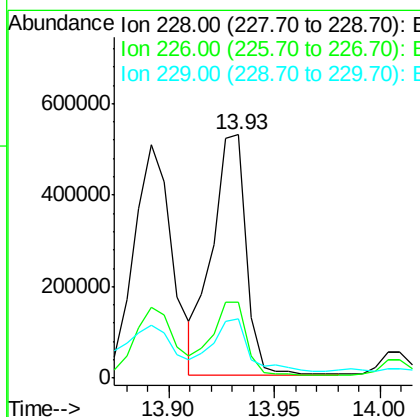
Manual Integrations
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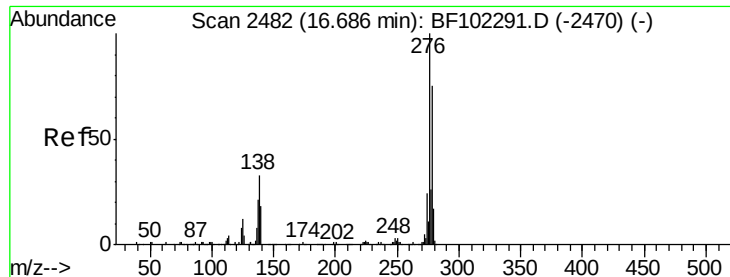
Sohil
1/30/2018 3:36:28 PM



#82
Chrysene
Concen: 37.351 ng
RT: 13.93 min Scan# 2014
Delta R.T. 0.02 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.6
229	24.2	16.2	24.4





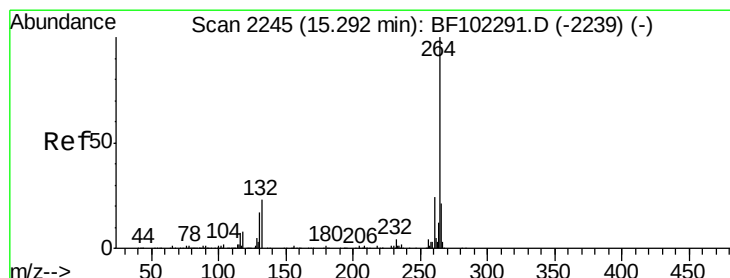
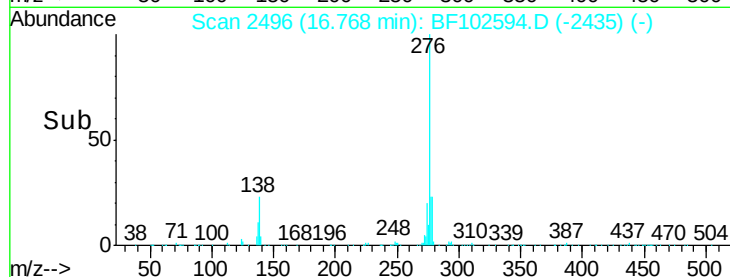
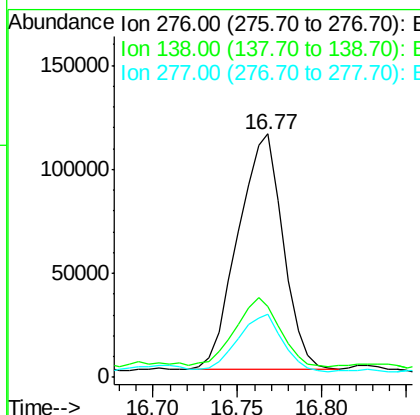
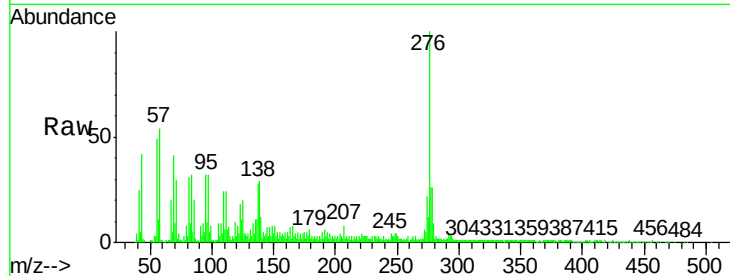
#85
Indeno(1,2,3-cd)pyrene
Concen: 16.217 ng
RT: 16.77 min Scan# 2496
Delta R.T. 0.06 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Instrument :
BNA_F
ClientSampleId :
WC-19(5-15)

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	211299		
138	29.0	25.0	37.6	
277	24.6	20.1	30.1	

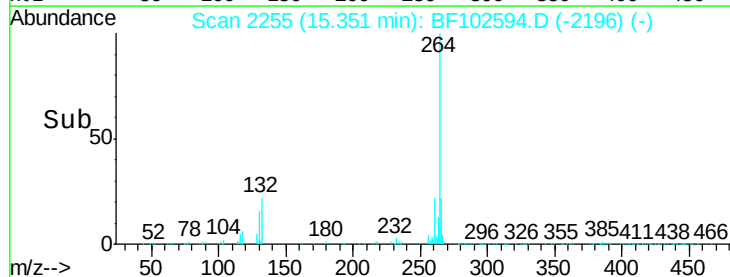
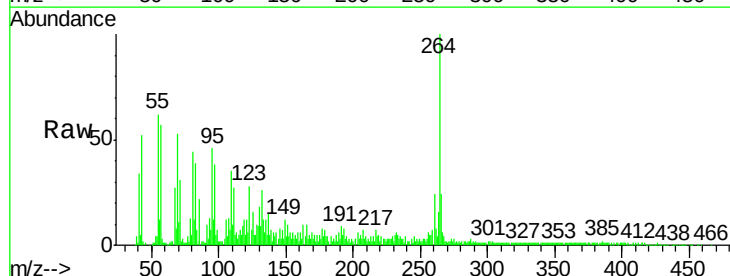
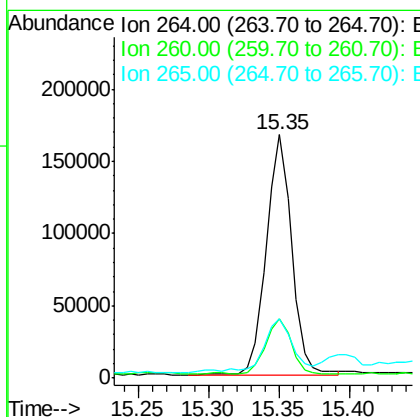
Manual Integrations
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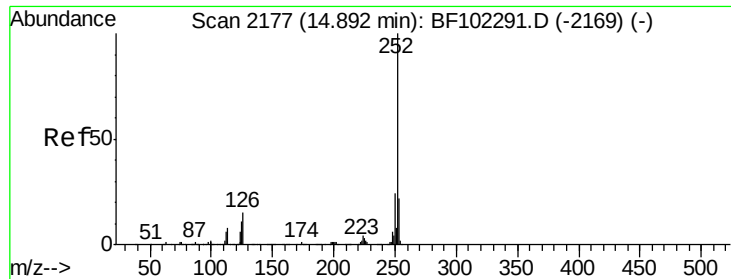
Sohil
1/30/2018 3:36:28 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.35 min Scan# 2255
Delta R.T. 0.05 min
Lab File: BF102594.D
Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	213320		
260	24.3	19.2	28.8	
265	24.4	17.5	26.3	





#87

Benzo(b)fluoranthene

Concen: 41.724 ng m

RT: 14.94 min Scan# 2185

Delta R.T. 0.04 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Instrument :

BNA_F

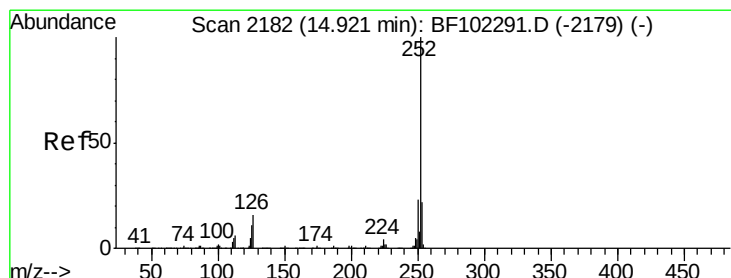
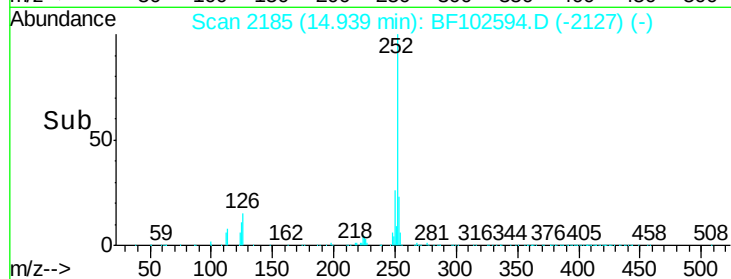
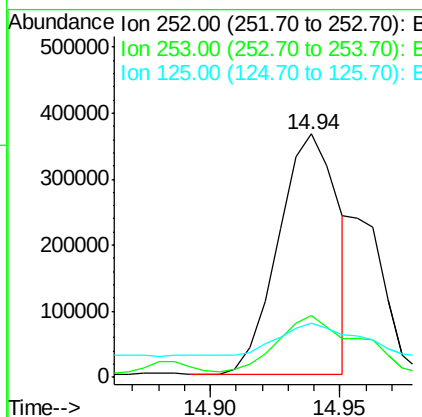
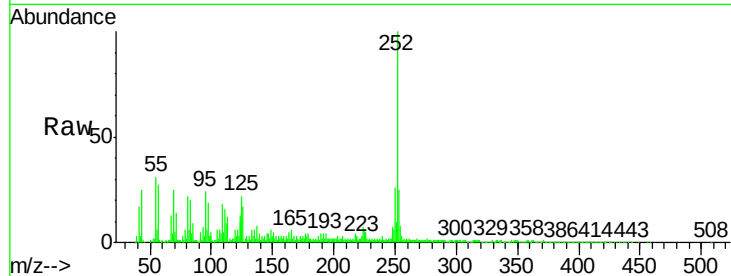
ClientSampleId :

WC-19(5-15)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.0	25.6
125	22.0	9.0	13.6#

Manual Integrations
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Sohil
1/30/2018 3:36:28 PM



#88

Benzo(k)fluoranthene

Concen: 16.665 ng m

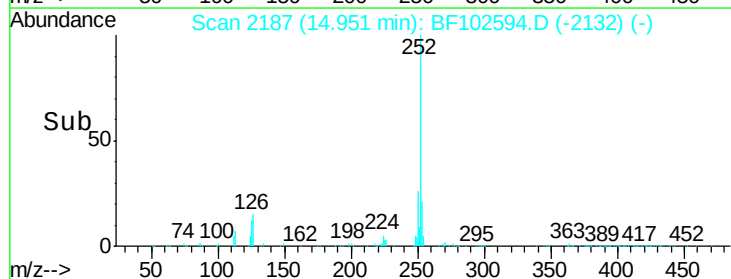
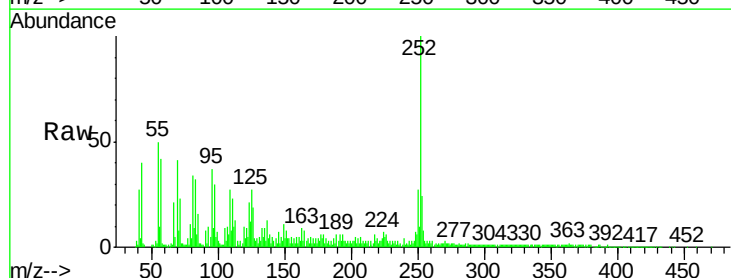
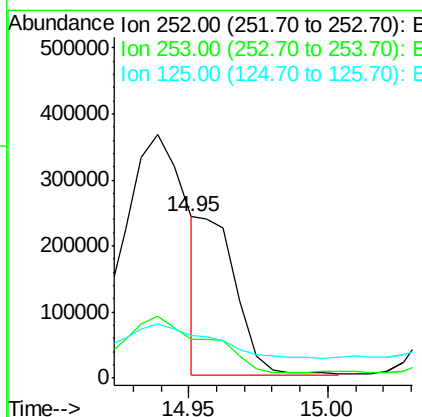
RT: 14.95 min Scan# 2187

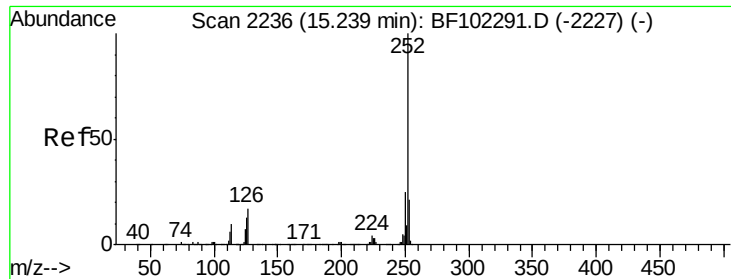
Delta R.T. 0.02 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.9	26.9
125	26.8	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 31.125 ng

RT: 15.29 min Scan# 2245

Delta R.T. 0.04 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Instrument :

BNA_F

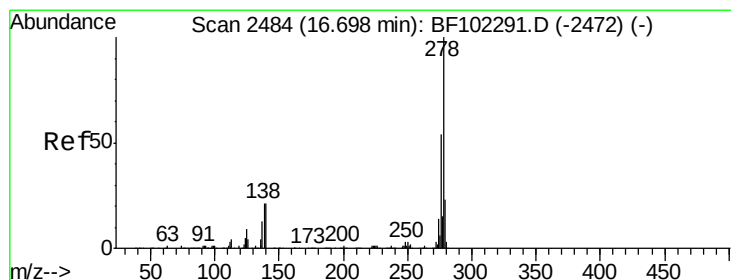
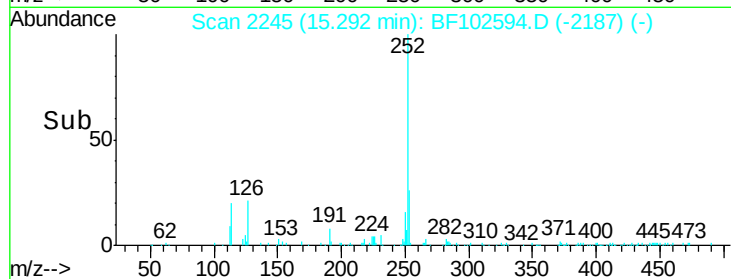
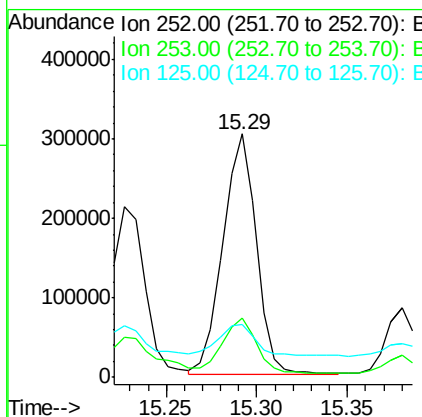
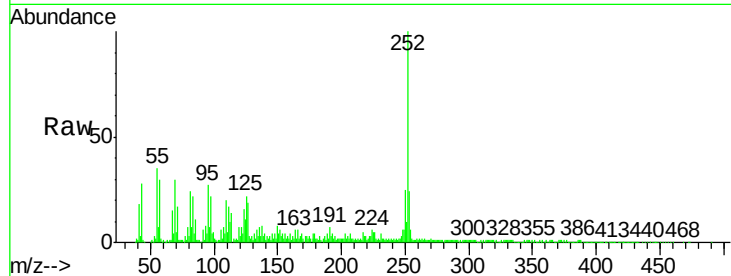
ClientSampleId :

WC-19(5-15)

Tgt Ion:	252	Resp:	388126
Ion Ratio	Lower	Upper	
252	100		
253	24.4	17.1	25.7
125	21.8	9.8	14.6#

Manual Integrations
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Sohil
1/30/2018 3:36:28 PM



#90

Dibenzo(a,h)anthracene

Concen: 6.333 ng

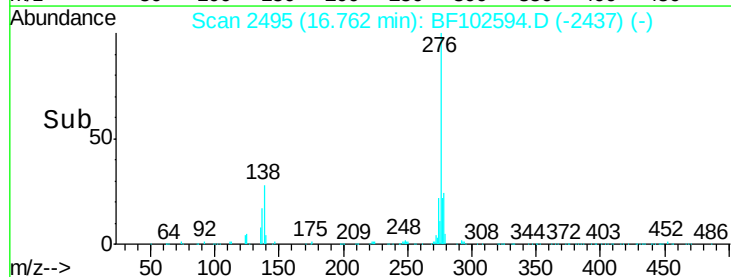
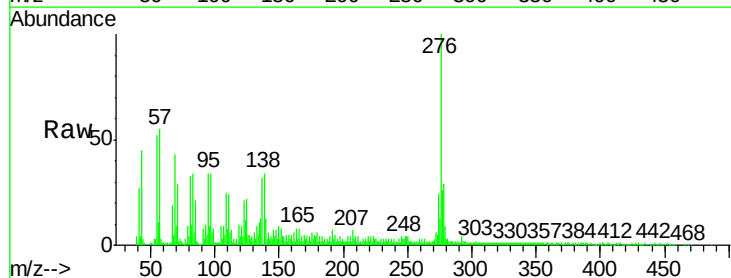
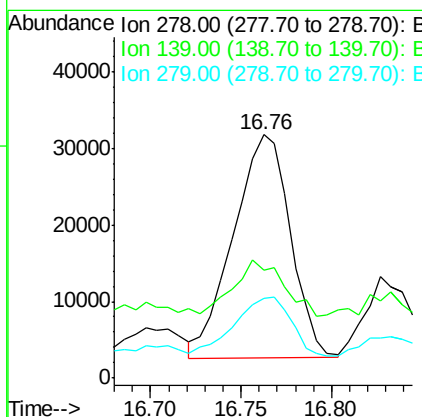
RT: 16.76 min Scan# 2495

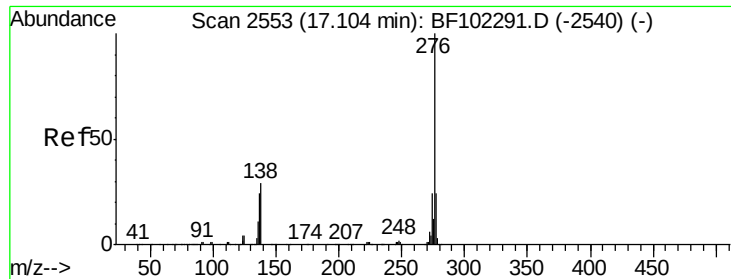
Delta R.T. 0.04 min

Lab File: BF102594.D

Acq: 29 Jan 2018 13:42

Tgt Ion:	278	Resp:	63967
Ion Ratio	Lower	Upper	
278	100		
139	44.6	15.9	23.9#
279	32.6	19.0	28.4#





#91
 Benzo(g,h,i)perylene
 Concen: 20.370 ng
 RT: 17.19 min Scan# 2568
 Delta R.T. 0.06 min
 Lab File: BF102594.D
 Acq: 29 Jan 2018 13:42

Instrument :
 BNA_F
 ClientSampleId :
 WC-19(5-15)

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.3	17.9	26.9
138	31.9	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 1/30/2018 3:36:28 PM

