

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
 Data File : BF101492.D
 Acq On : 18 Dec 2017 20:30
 Operator : SJ/JU
 Sample : I6677-07 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-B

Manual Integrations
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Quant Time: Dec 19 06:33:16 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 18 15:38:59 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	143979	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	527264	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	198894	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	318937	20.00	ng	0.00
75) Chrysene-d12	13.99	240	244095	20.00	ng	0.00
86) Perylene-d12	15.46	264	206786	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	228299	23.62	ng	0.00
7) Phenol-d6	6.45	99	277242	23.05	ng	0.00
23) Nitrobenzene-d5	7.37	82	138148	14.58	ng	0.00
41) 2,4,6-Tribromophenol	10.65	330	39123	20.41	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	262697	20.49	ng	0.00
78) Terphenyl-d14	12.92	244	190049	18.77	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.12	128	302857	11.409	ng	98
37) 2-Methylnaphthalene	8.80	142	149192	8.627	ng	98
48) Acenaphthylene	9.71	152	102324	4.800	ng	97
51) Acenaphthene	9.88	154	142516	11.128	ng	99
54) Dibenzofuran	10.06	168	174462	10.719	ng	96
57) Fluorene	10.40	166	278233	20.208	ng	99
70) Phenanthrene	11.37	178	1289741	72.717	ng	99
71) Anthracene	11.42	178	502592	27.741	ng	99
72) Carbazole	11.57	167	87514	5.159	ng	99
74) Fluoranthene	12.56	202	1341928	72.081	ng	98
77) Pyrene	12.79	202	1264558	69.029	ng	100
80) Benzo(a)anthracene	13.98	228	611648	37.948	ng	98
82) Chrysene	14.02	228	507515	33.349	ng	97
85) Indeno(1,2,3-cd)pyrene	16.95	276	193404	14.271	ng	# 90
87) Benzo(b)fluoranthene	15.04	252	465715m	36.950	ng	
88) Benzo(k)fluoranthene	15.06	252	185025m	15.098	ng	
89) Benzo(a)pyrene	15.40	252	372575	32.066	ng	98
90) Dibenzo(a,h)anthracene	16.94	278	47510	4.762	ng	# 69
91) Benzo(g,h,i)perylene	17.40	276	185594	18.788	ng	96

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

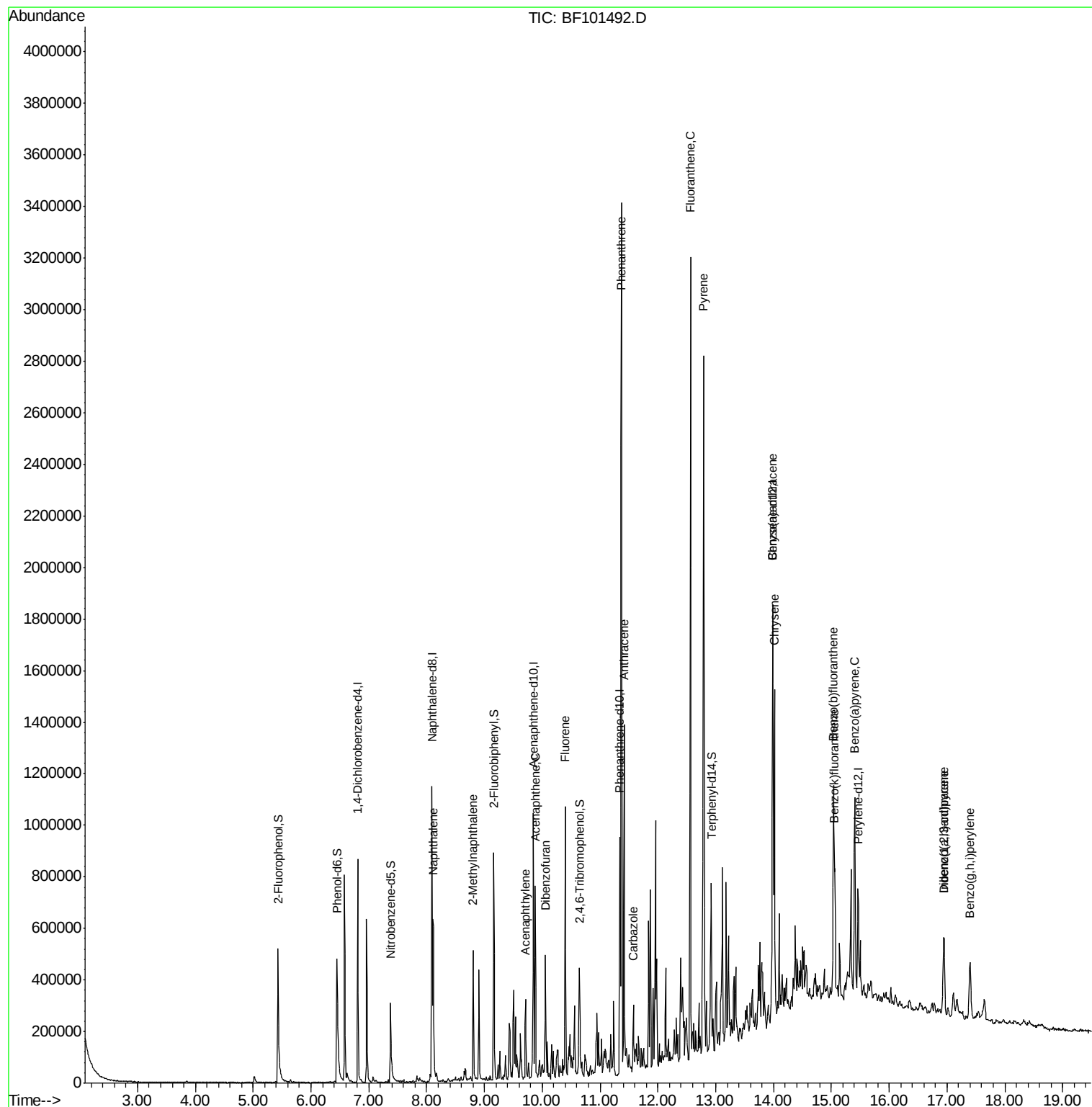
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121817\
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ALS Vial : 21 Sample Multiplier: 1

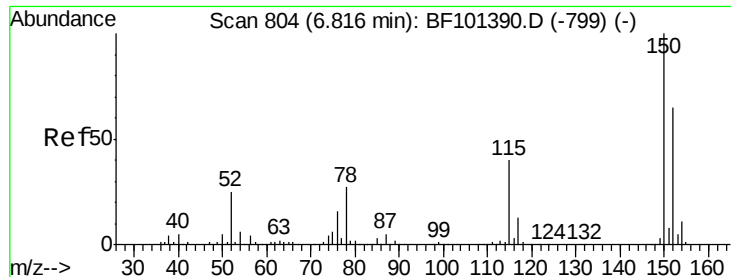
Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

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Quant Time: Dec 19 06:33:16 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121417.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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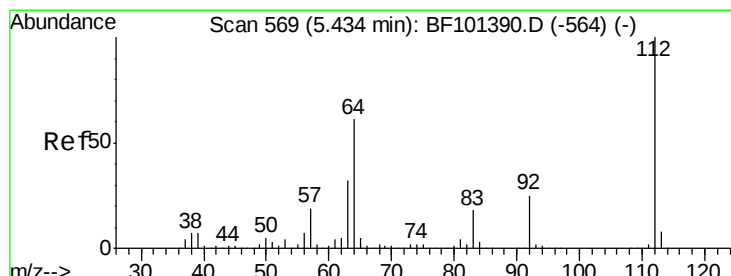
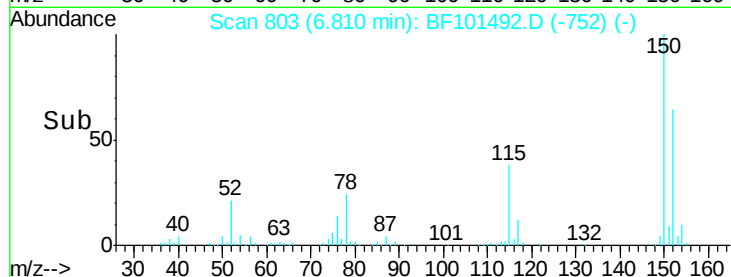
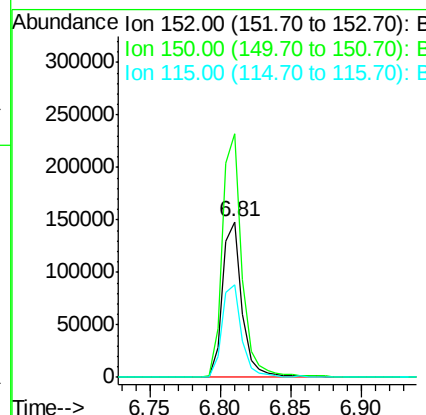
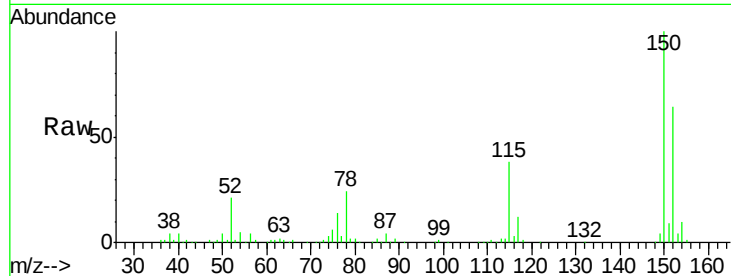
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.00 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-B

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.3	124.6	186.8
115	59.3	50.1	75.1

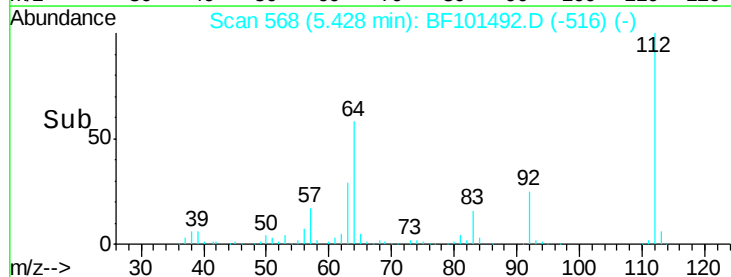
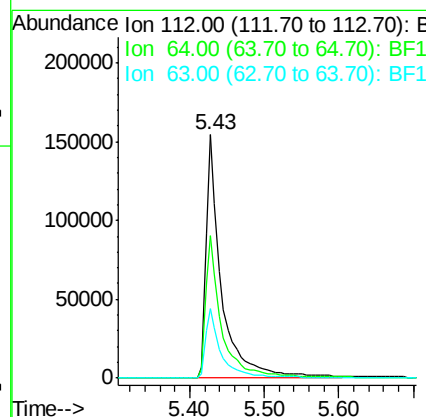
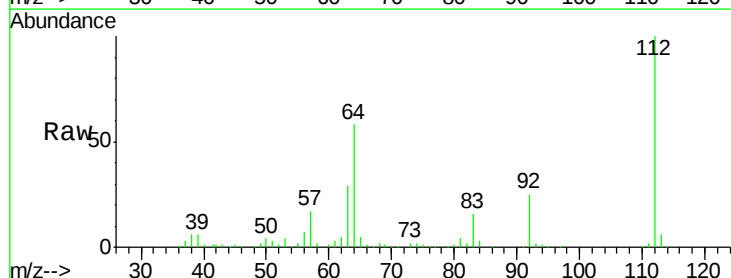
Manual Integrations
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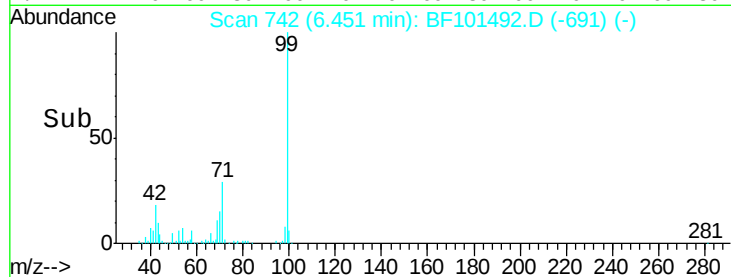
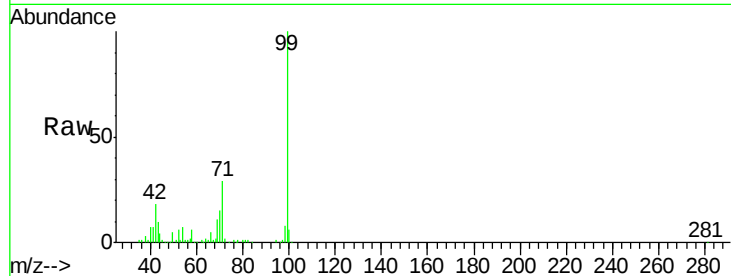
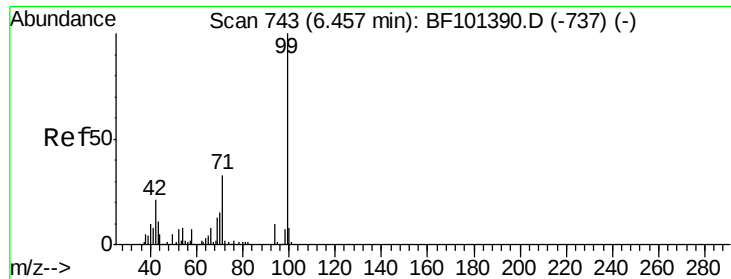
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#5
 2-Fluorophenol
 Concen: 23.619 ng
 RT: 5.43 min Scan# 568
 Delta R.T. 0.01 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.4	47.9	71.9
63	28.8	23.7	35.5





#7

Phenol-d6

Concen: 23.047 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF101492.D

Acq: 18 Dec 2017 20:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		277242		
42	17.9	14.5	21.7		
71	29.1	25.4	38.0		

Instrument :

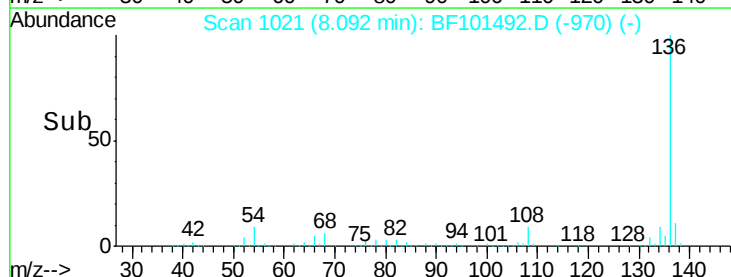
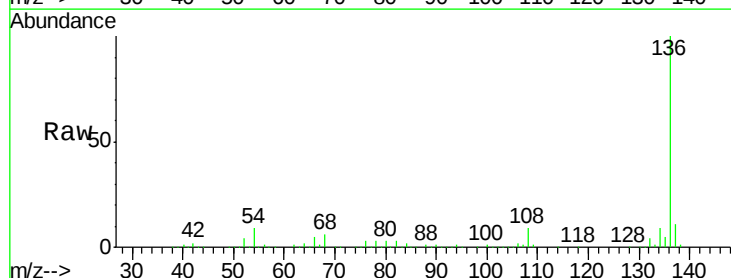
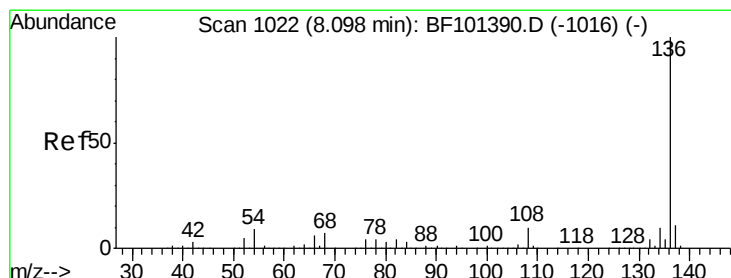
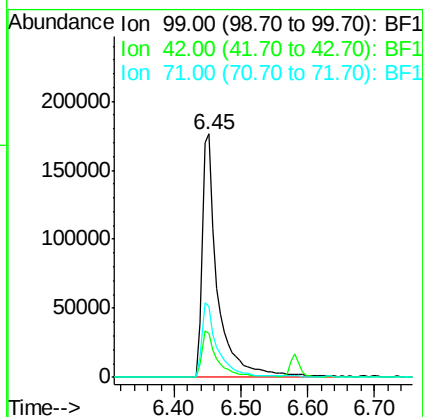
BNA_F

ClientSampleId :

OR-01-121517-B

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#21

Naphthalene-d8

Concen: 20.000 ng

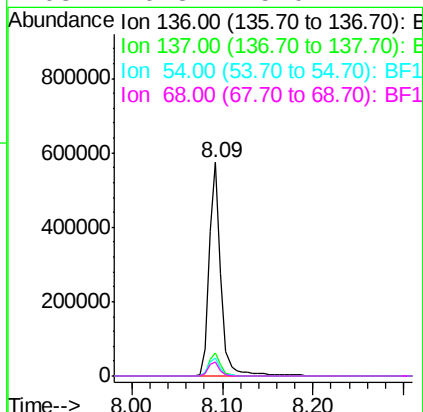
RT: 8.09 min Scan# 1021

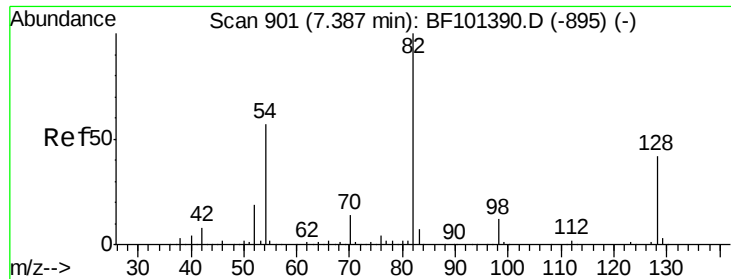
Delta R.T. -0.00 min

Lab File: BF101492.D

Acq: 18 Dec 2017 20:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		527264		
137	11.1	8.9	13.3		
54	8.7	6.6	9.8		
68	6.3	5.0	7.4		





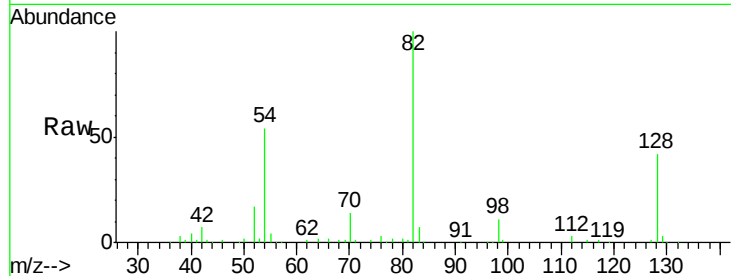
#23
Nitrobenzene-d5
Concen: 14.585 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

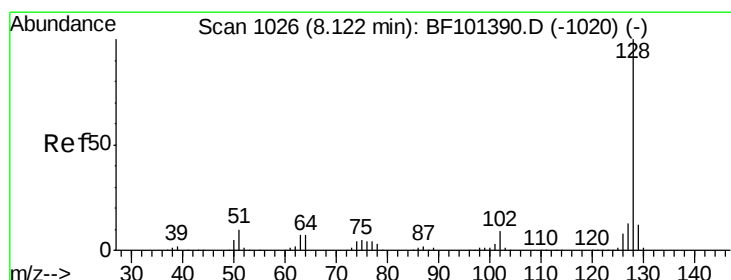
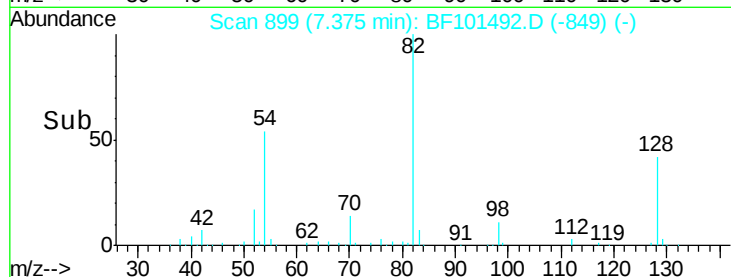
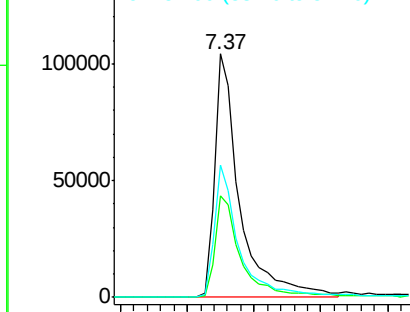
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	138148		
128	42.0	36.1	54.1	
54	54.1	41.4	62.2	

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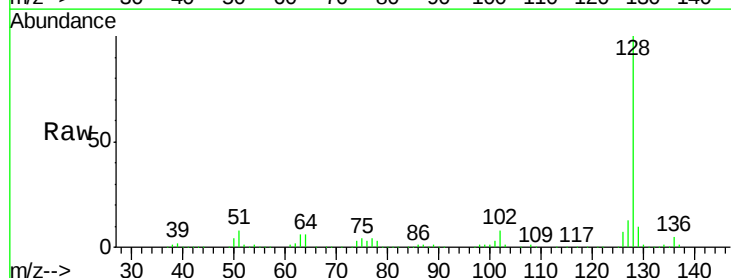


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

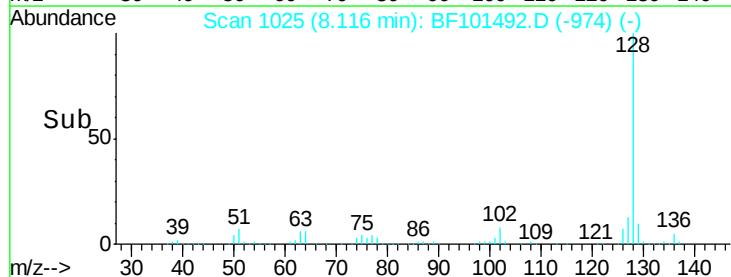
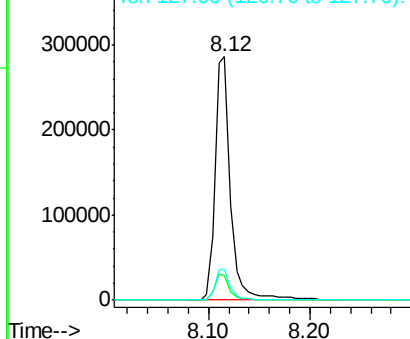


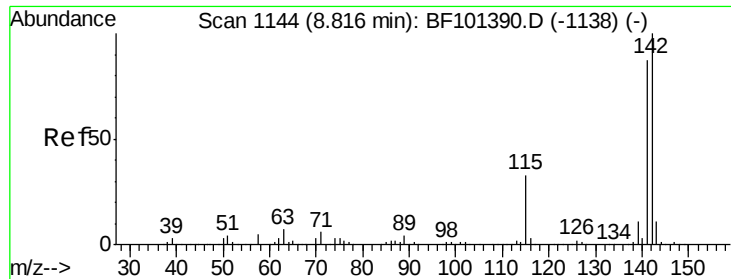
#31
Naphthalene
Concen: 11.409 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.00 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	302857		
129	10.3	8.8	13.2	
127	13.0	10.9	16.3	



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





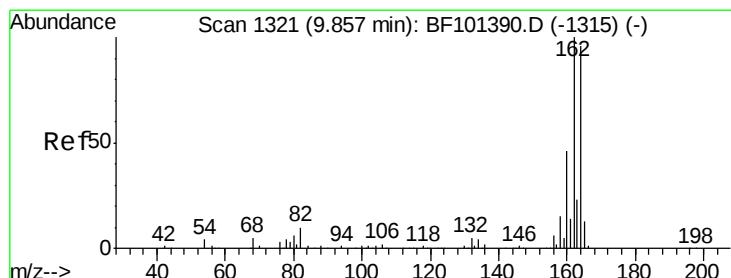
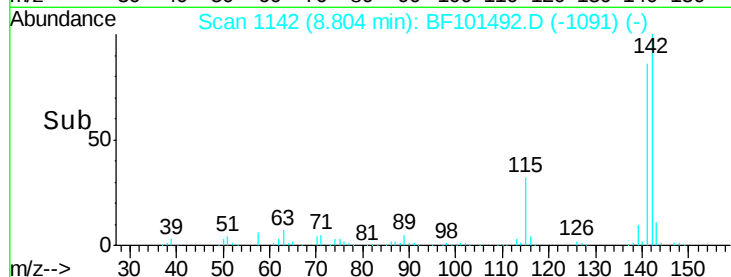
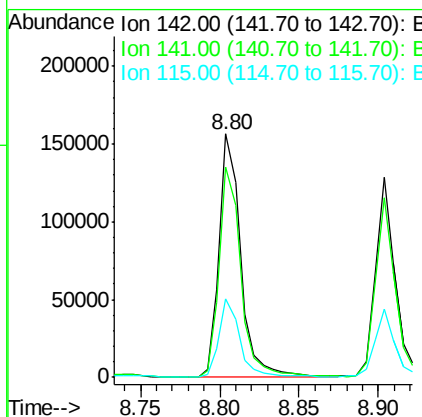
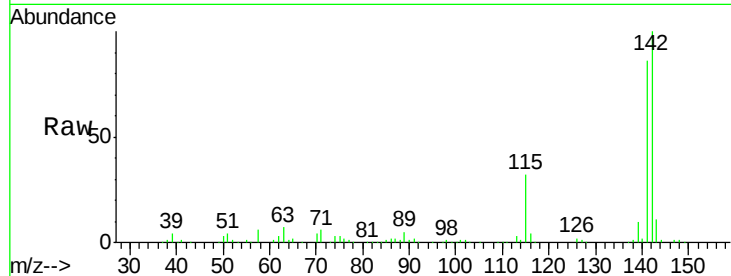
#37
2-Methylnaphthalene
Concen: 8.627 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.00 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	149192		
141	86.2	70.8	106.2	
115	32.4	26.1	39.1	

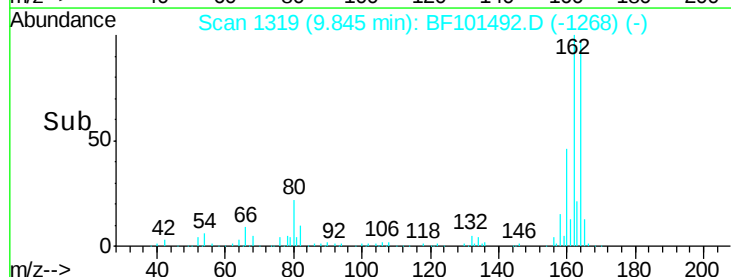
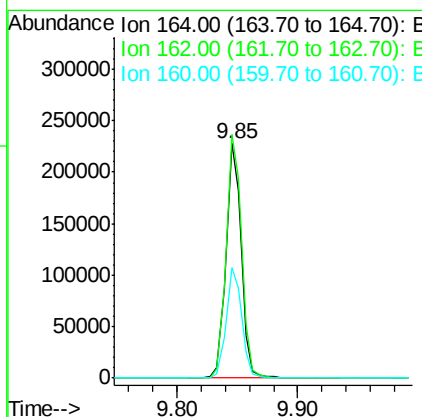
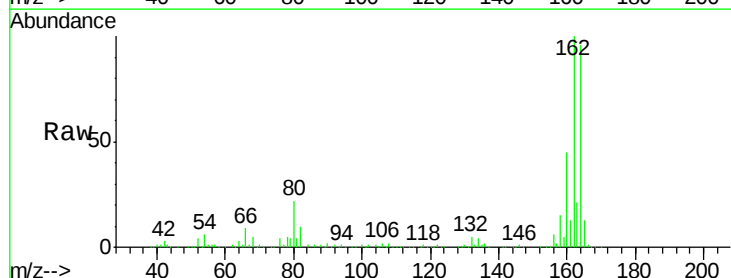
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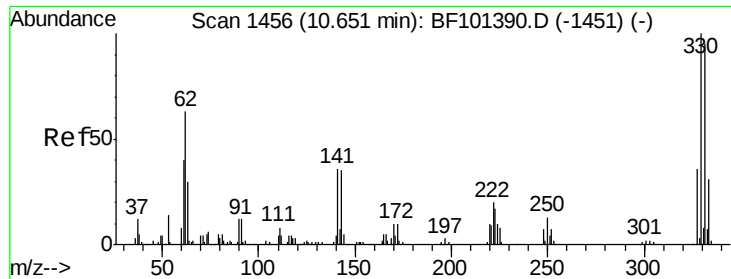
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.00 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	198894		
162	104.0	86.1	129.1	
160	47.3	38.3	57.5	





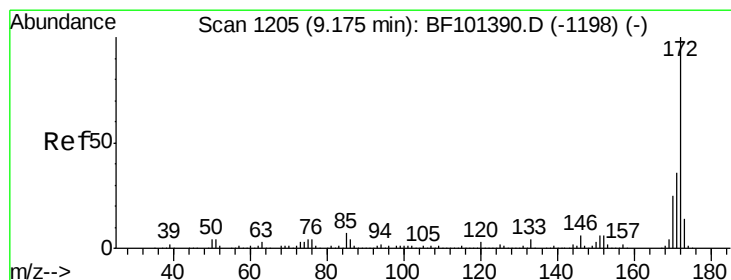
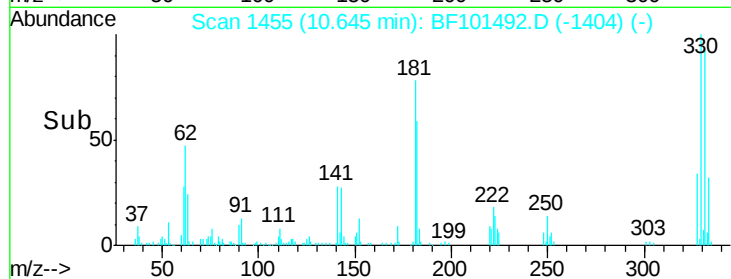
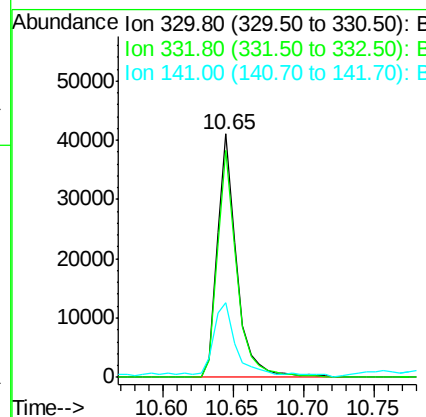
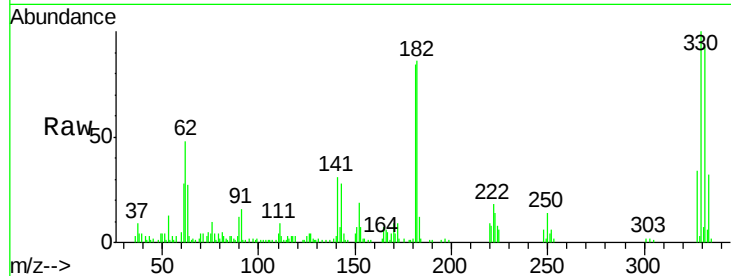
#41
 2,4,6-Tribromophenol
 Concen: 20.414 ng
 RT: 10.65 min Scan# 1455
 Delta R.T. -0.00 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-B

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	39123		
332	93.0	77.0	115.6	
141	32.7	29.9	44.9	

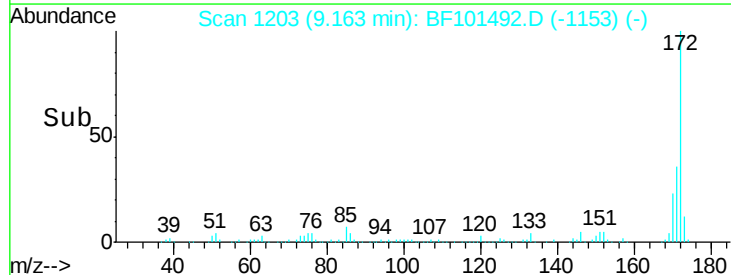
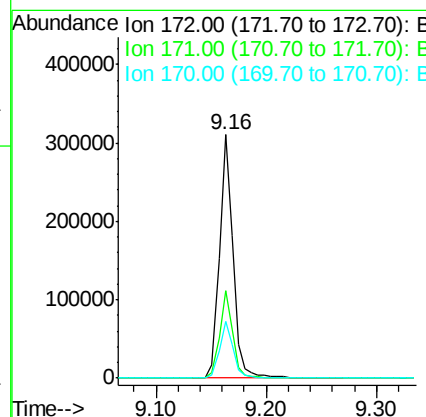
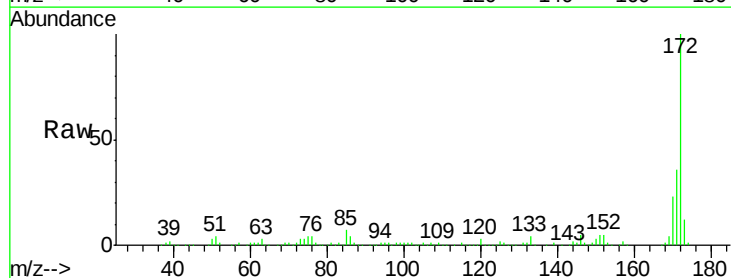
Manual Integrations
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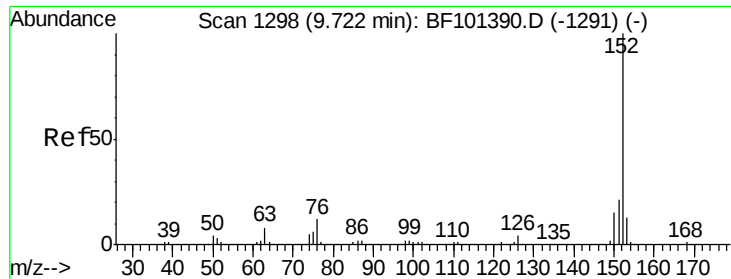
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#44
 2-Fluorobiphenyl
 Concen: 20.489 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	262697		
171	35.9	29.7	44.5	
170	23.4	19.6	29.4	





#48

Acenaphthylene

Concen: 4.800 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.00 min

Lab File: BF101492.D

Acq: 18 Dec 2017 20:30

Instrument :

BNA_F

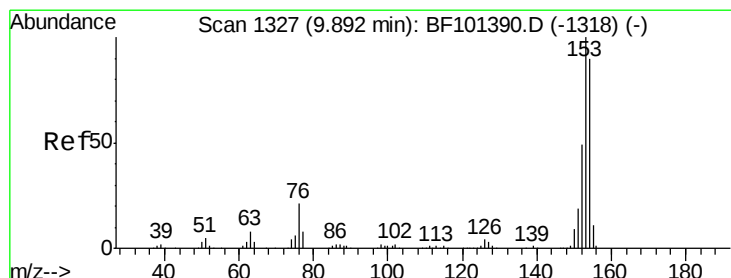
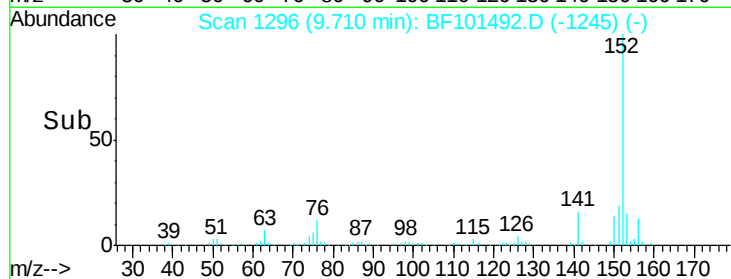
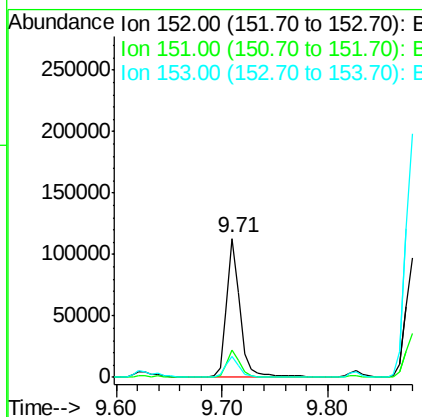
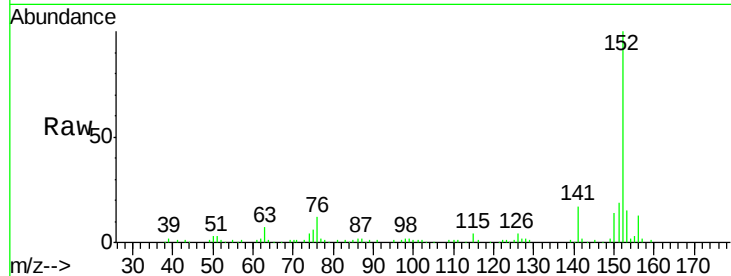
ClientSampled :

OR-01-121517-B

Tgt Ion:	152	Resp:	102324
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.3	24.5
153	14.7	10.7	16.1

Manual Integrations
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#51

Acenaphthene

Concen: 11.128 ng

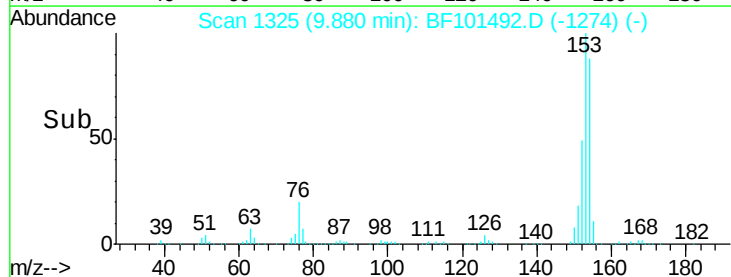
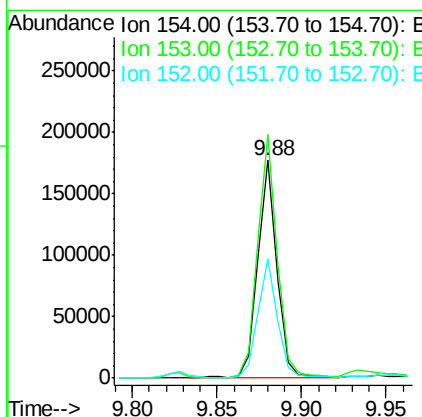
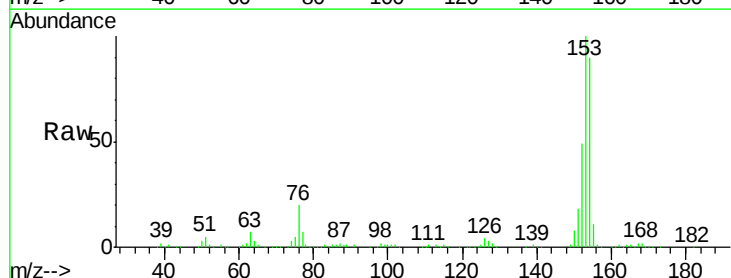
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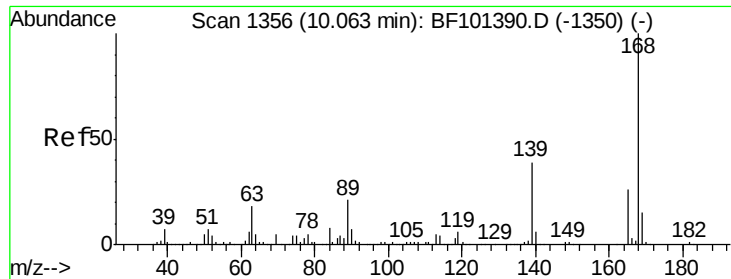
Delta R.T. -0.00 min

Lab File: BF101492.D

Acq: 18 Dec 2017 20:30

Tgt Ion:	154	Resp:	142516
Ion Ratio	Lower	Upper	
154	100		
153	111.7	91.2	136.8
152	54.7	43.8	65.8





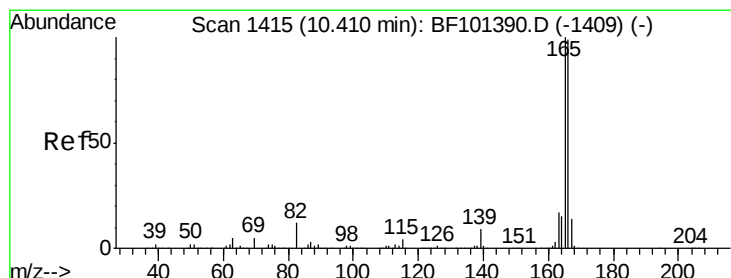
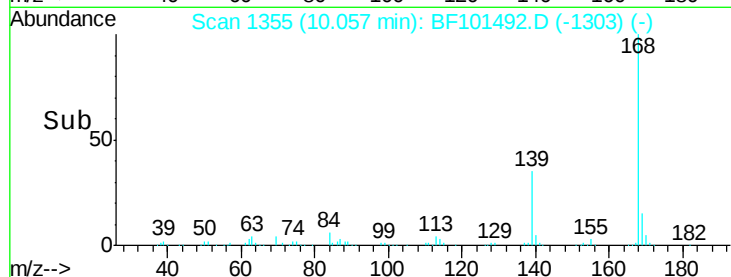
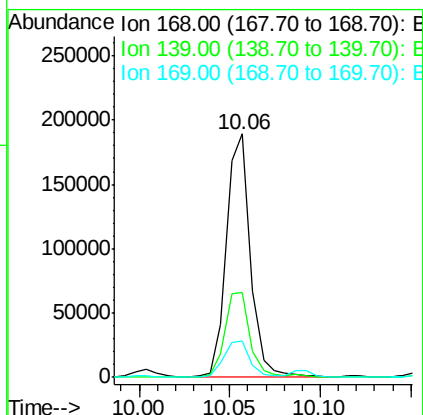
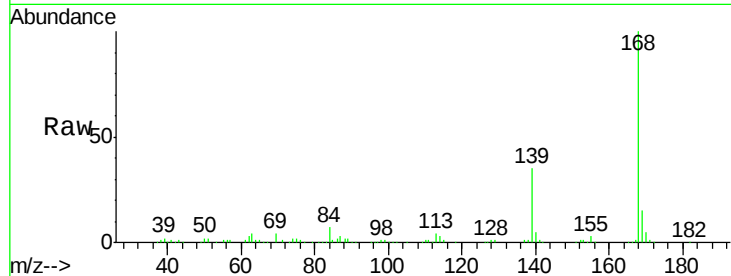
#54
Dibenzenofuran
Concen: 10.719 ng
RT: 10.06 min Scan# 1355
Delta R.T. 0.01 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	174462		
139	34.9	30.1	45.1	
169	14.7	10.9	16.3	

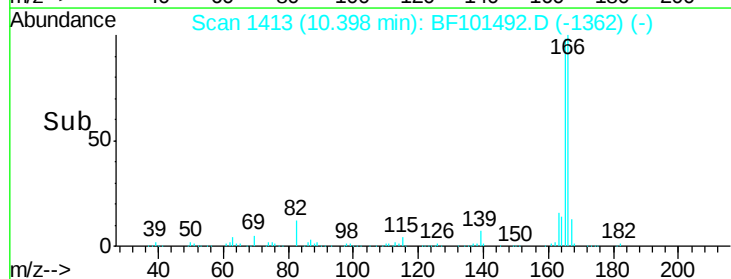
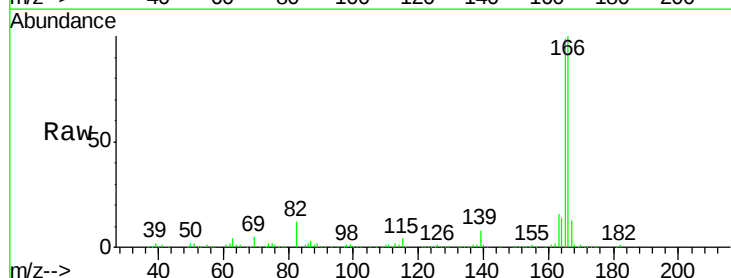
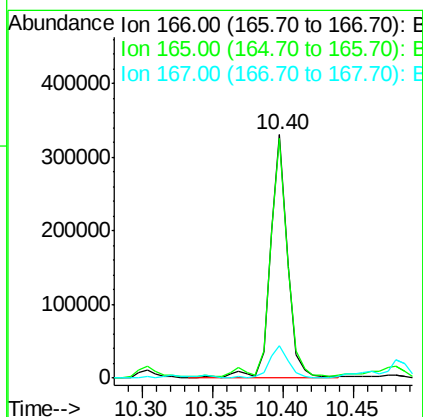
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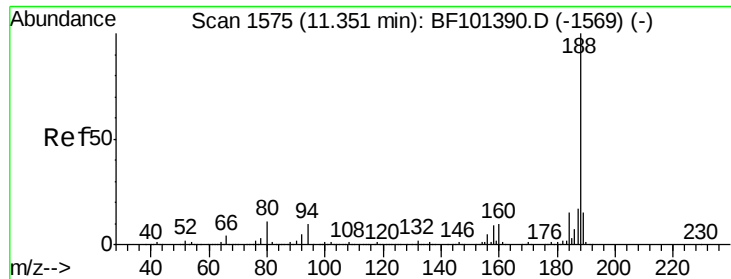
Sohil
12/19/2017 4:50:06 PM



#57
Fluorene
Concen: 20.208 ng
RT: 10.40 min Scan# 1413
Delta R.T. -0.00 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	278233		
165	98.6	79.8	119.8	
167	13.5	10.6	16.0	





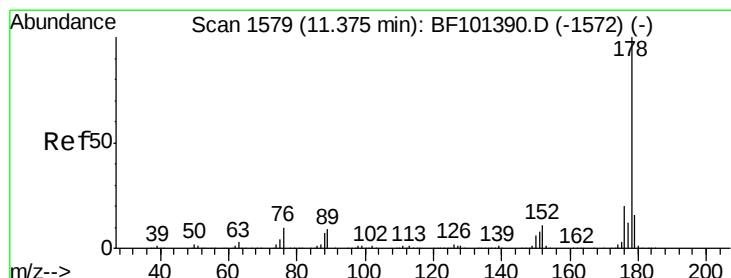
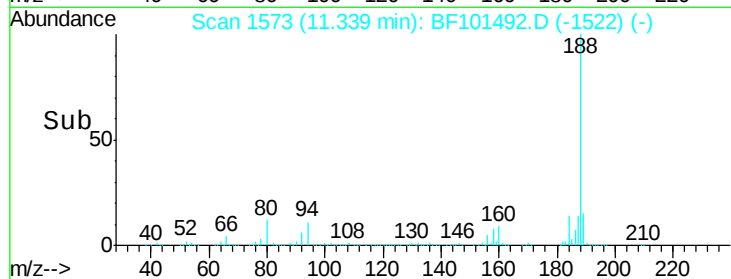
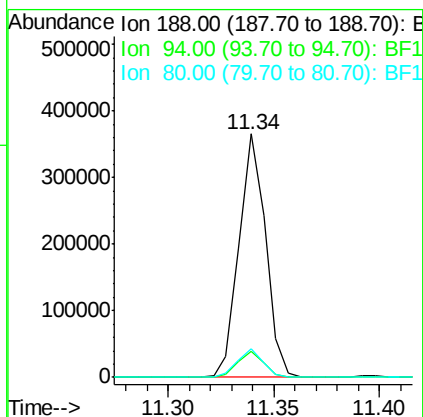
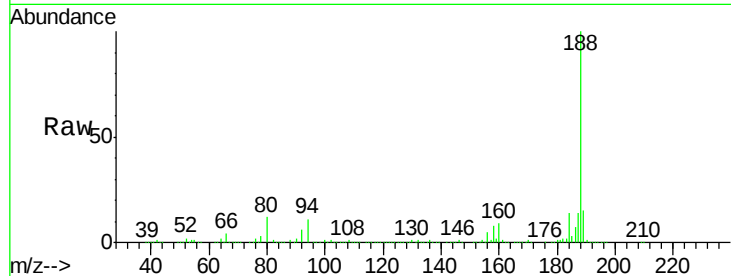
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.34 min Scan# 1573
Delta R.T. -0.00 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.6	8.5	12.7
80	11.5	9.2	13.8

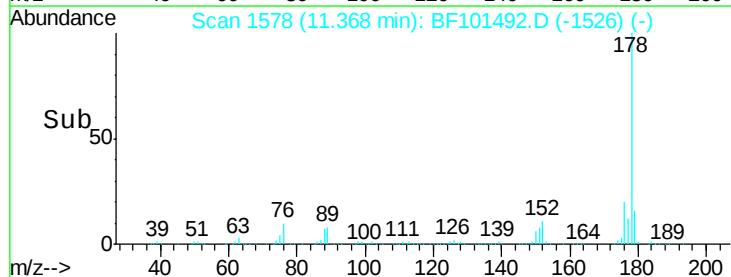
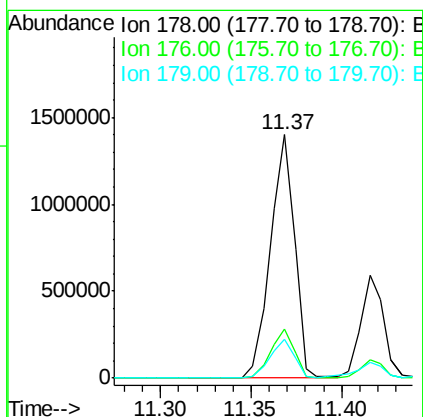
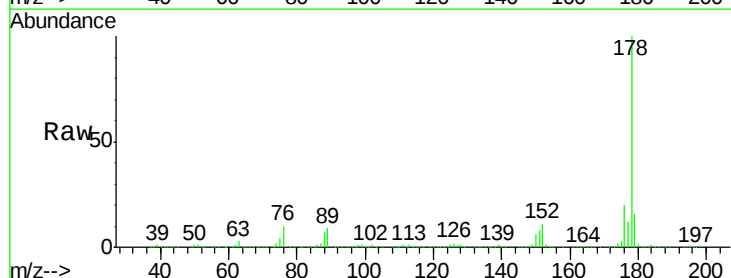
Manual Integrations
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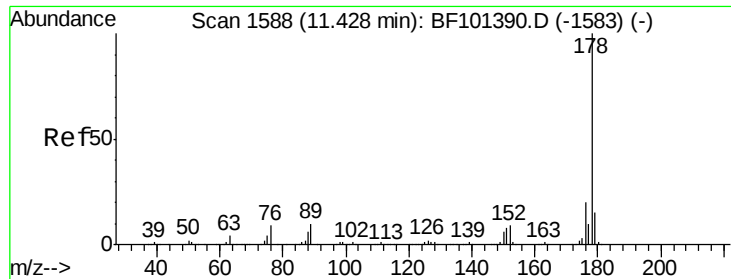
Sohil
12/19/2017 4:50:06 PM



#70
Phenanthrene
Concen: 72.717 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.1	15.8	23.8
179	15.9	13.0	19.6





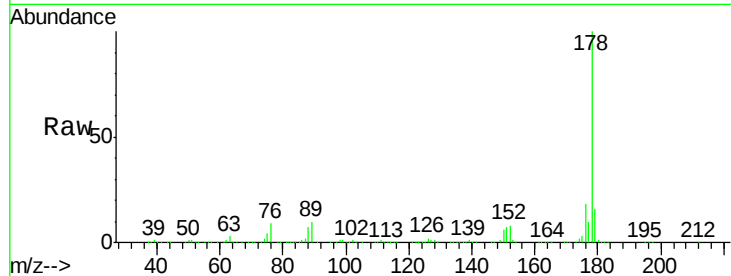
#71
 Anthracene
 Concen: 27.741 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-B

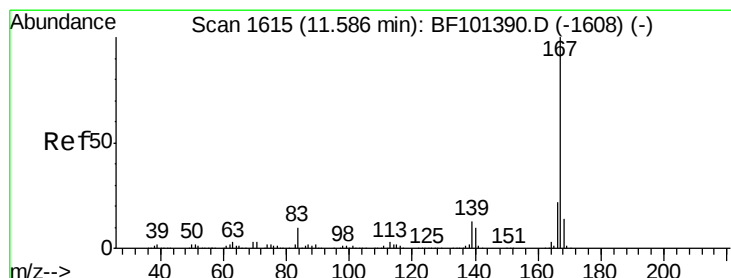
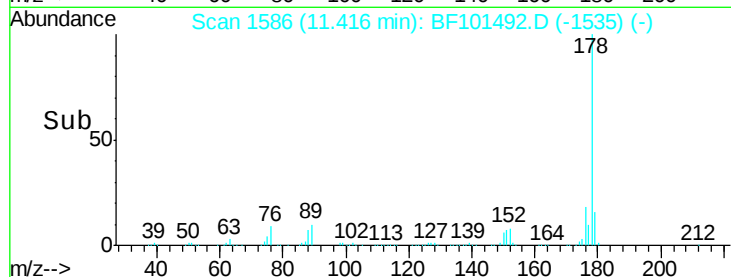
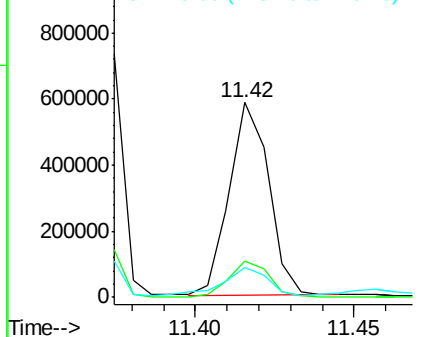
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.7	12.6	19.0

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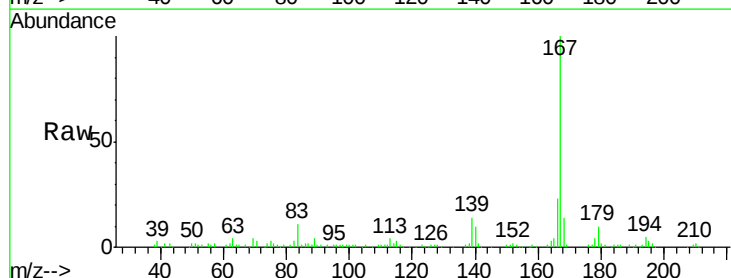


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

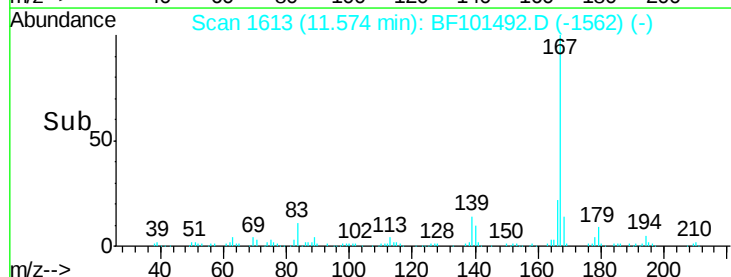
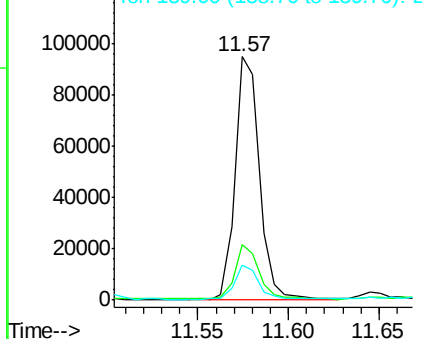


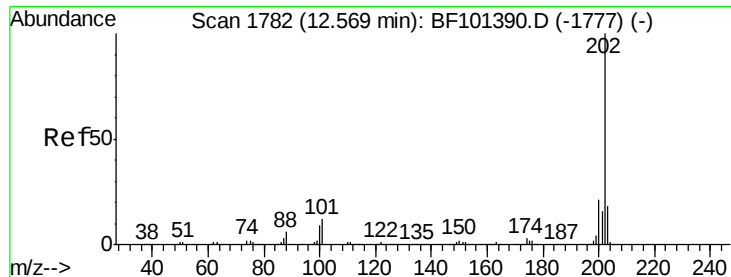
#72
 Carbazole
 Concen: 5.159 ng
 RT: 11.57 min Scan# 1613
 Delta R.T. -0.00 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.7	17.6	26.4
139	14.1	10.9	16.3



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 72.081 ng

RT: 12.56 min Scan# 1781

Delta R.T. 0.01 min

Lab File: BF101492.D

Acq: 18 Dec 2017 20:30

Instrument :

BNA_F

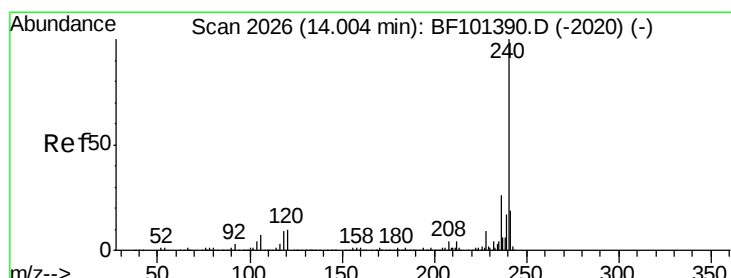
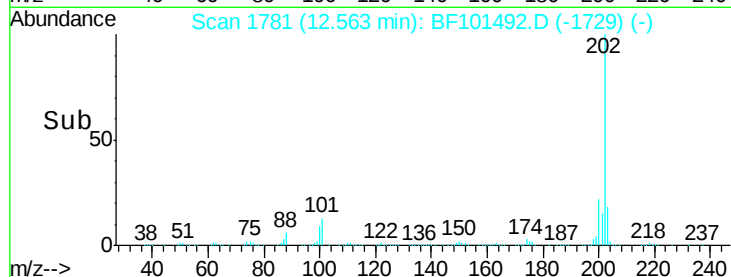
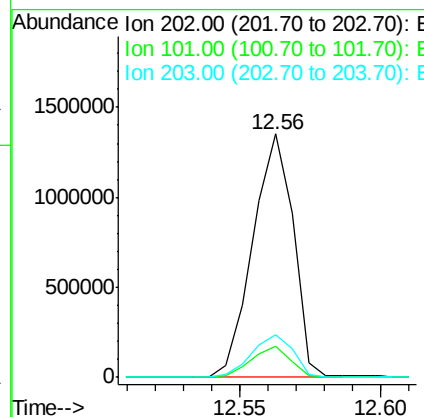
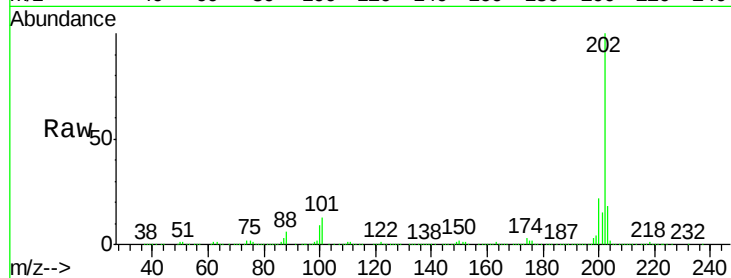
ClientSampleId :

OR-01-121517-B

Tgt	Ion	202	Resp:	1341928
Ion	Ratio	Lower	Upper	
202	100			
101	12.5	0.0	34.1	
203	17.7	0.0	38.1	

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#75

Chrysene-d12

Concen: 20.000 ng

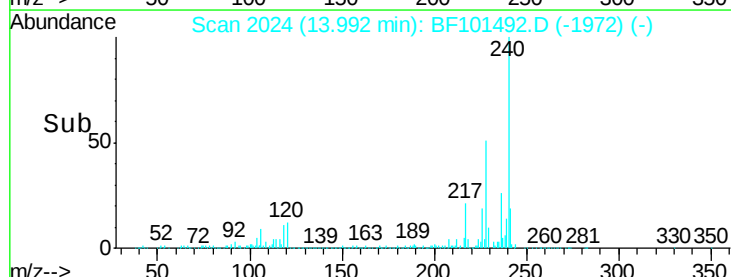
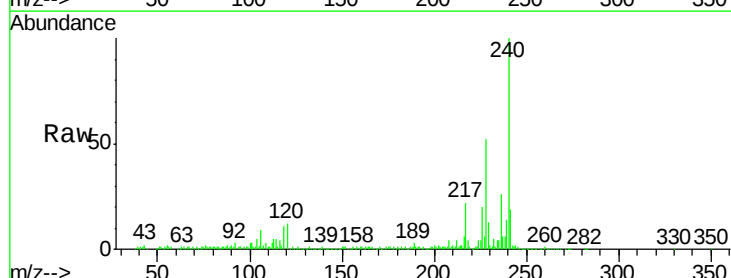
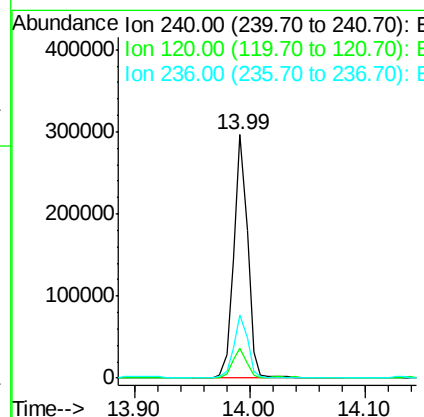
RT: 13.99 min Scan# 2024

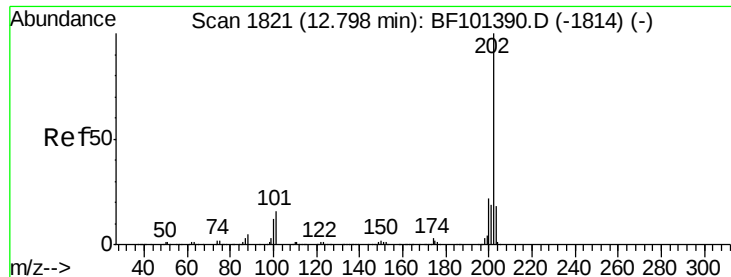
Delta R.T. 0.01 min

Lab File: BF101492.D

Acq: 18 Dec 2017 20:30

Tgt	Ion	240	Resp:	244095
Ion	Ratio	Lower	Upper	
240	100			
120	12.4	9.5	14.3	
236	26.2	20.7	31.1	





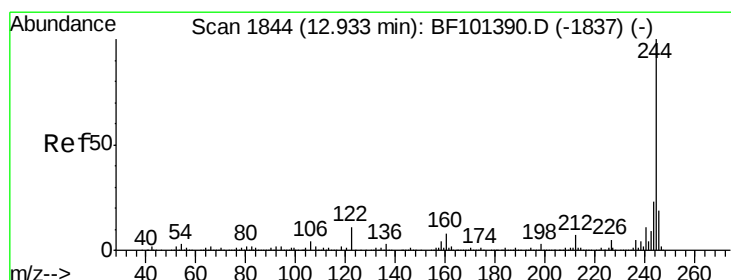
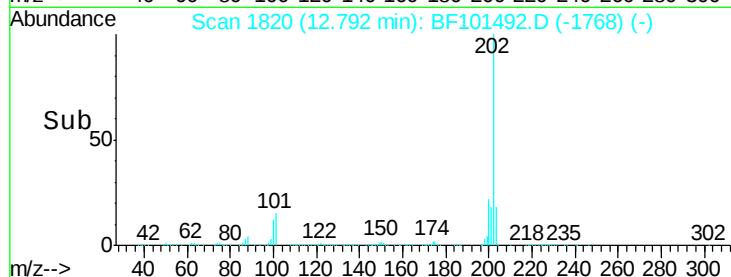
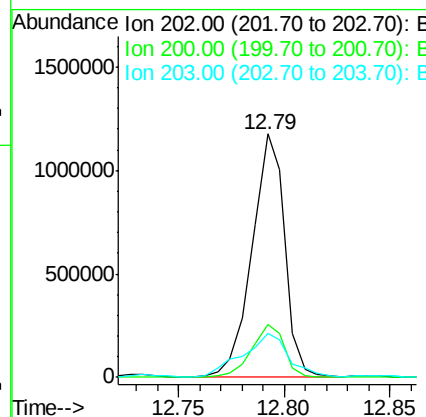
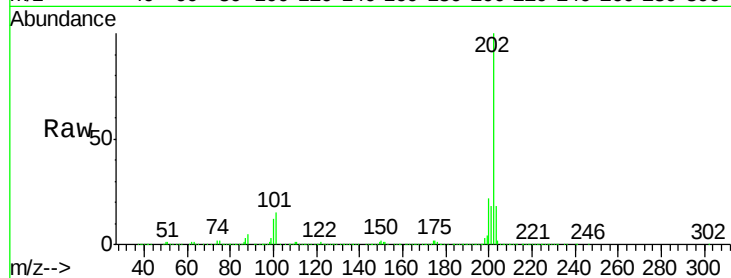
#77
 Pyrene
 Concen: 69.029 ng
 RT: 12.79 min Scan# 1820
 Delta R.T. 0.01 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-B

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.4	26.2
203	18.1	14.3	21.5

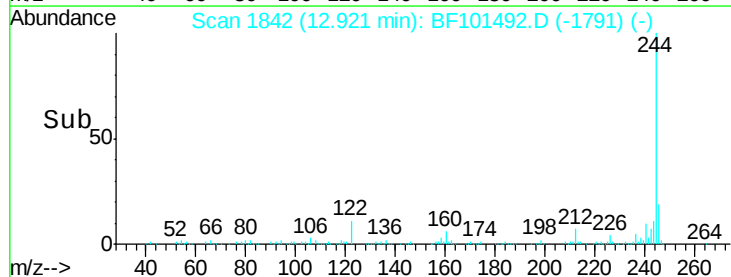
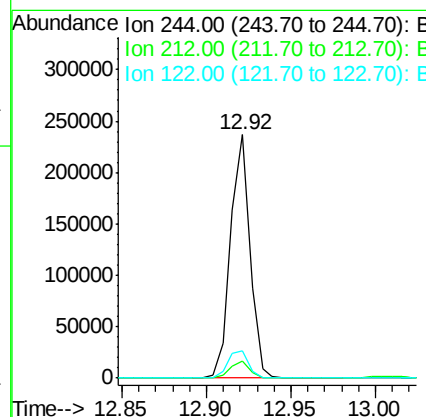
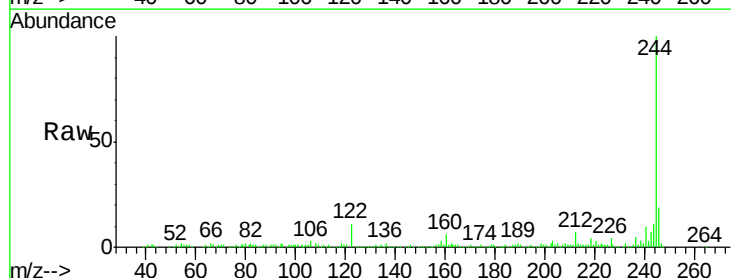
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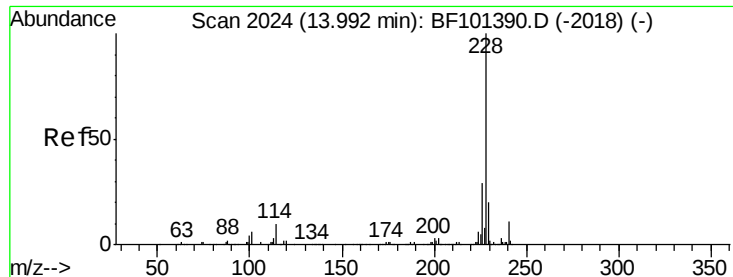
Sohil
 12/19/2017 4:50:06 PM



#78
 Terphenyl-d14
 Concen: 18.770 ng
 RT: 12.92 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	11.2	11.0	16.4





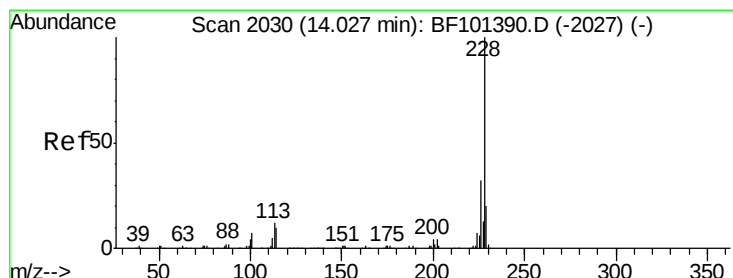
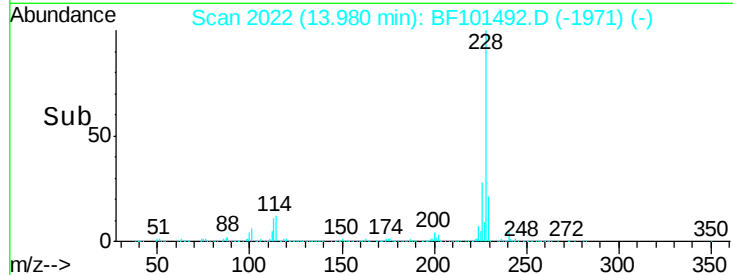
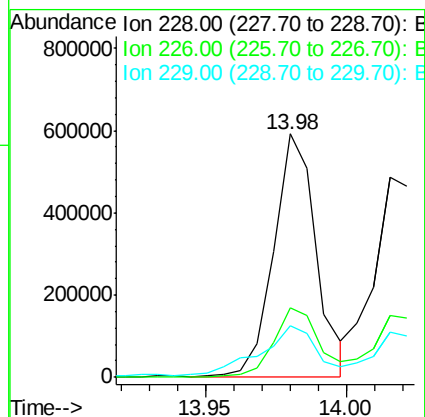
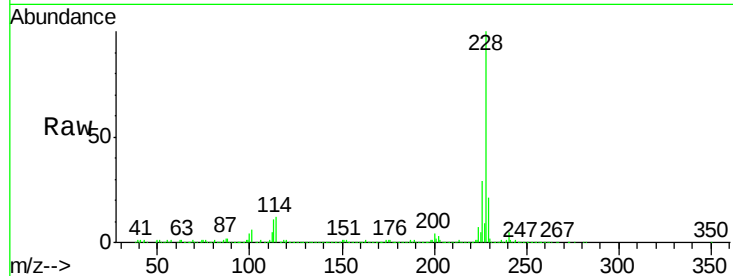
#80
Benzo(a)anthracene
Concen: 37.948 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.00 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	611648		
226	28.6	22.6	33.8	
229	21.3	15.8	23.6	

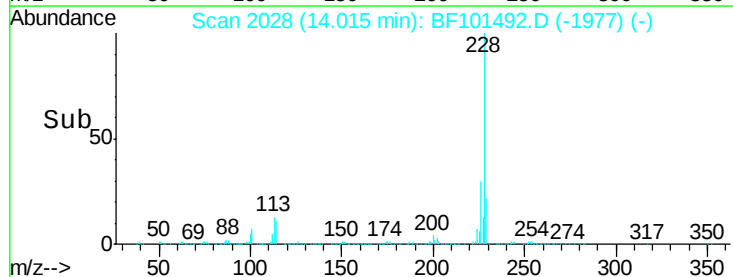
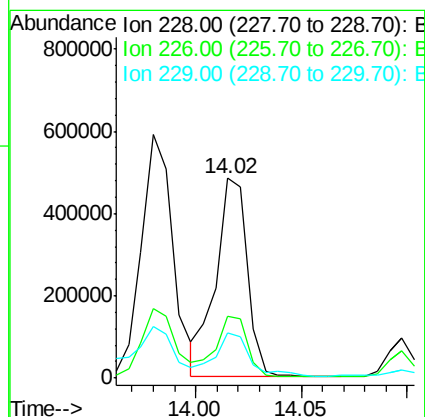
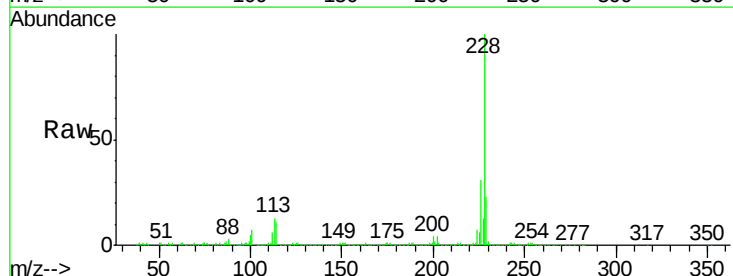
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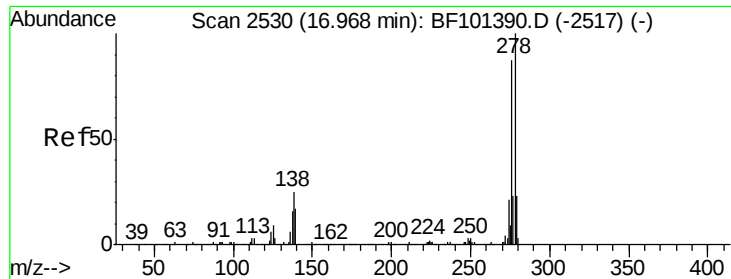
Sohil
12/19/2017 4:50:06 PM



#82
Chrysene
Concen: 33.349 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.00 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	507515		
226	30.8	25.0	37.6	
229	22.8	16.2	24.4	





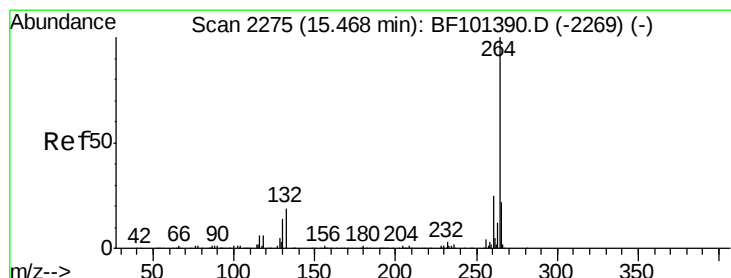
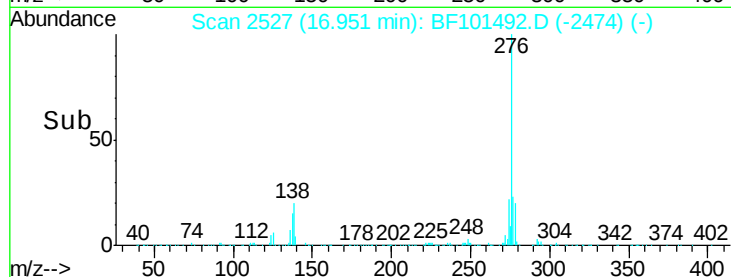
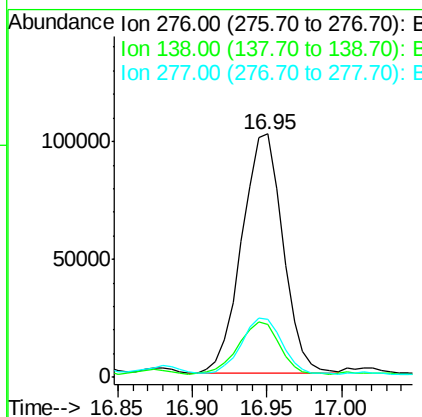
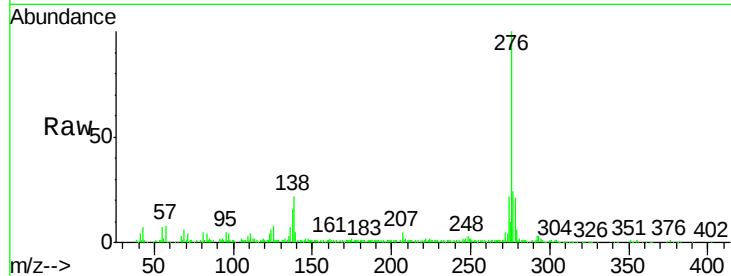
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.271 ng
 RT: 16.95 min Scan# 2527
 Delta R.T. 0.01 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Instrument :
 BNA_F
 ClientSampleId :
 OR-01-121517-B

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	193404		
138	22.9	25.0	37.6#	
277	23.7	20.1	30.1	

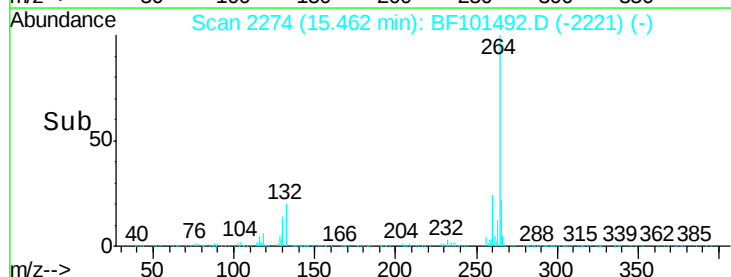
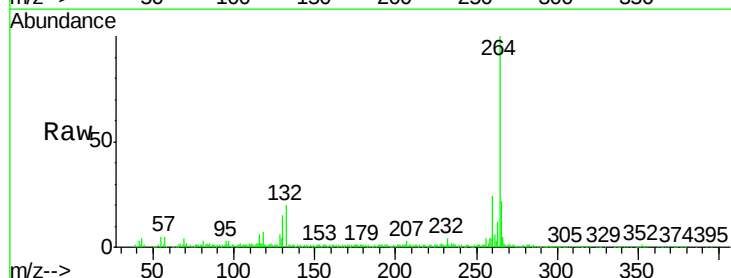
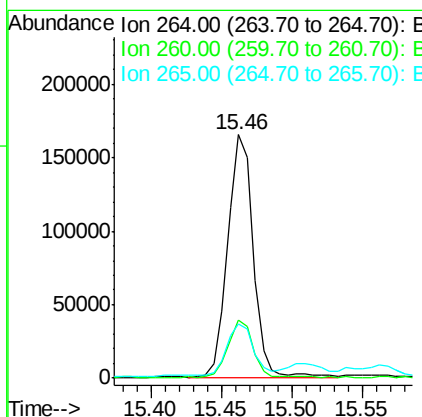
Manual Integrations
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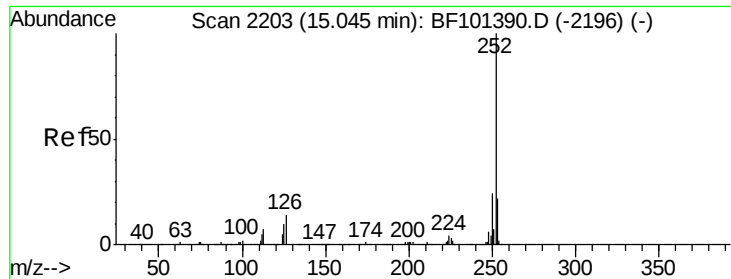
Sohil
 12/19/2017 4:50:06 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.46 min Scan# 2274
 Delta R.T. 0.01 min
 Lab File: BF101492.D
 Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	206786		
260	24.0	19.2	28.8	
265	22.3	17.5	26.3	





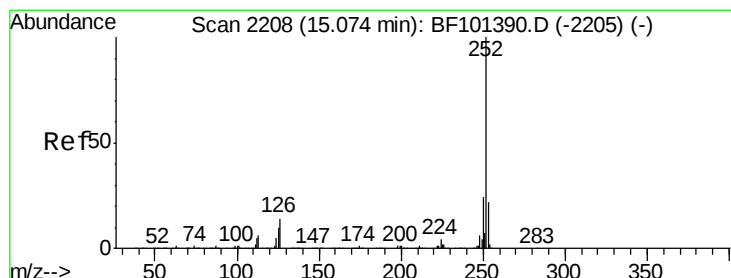
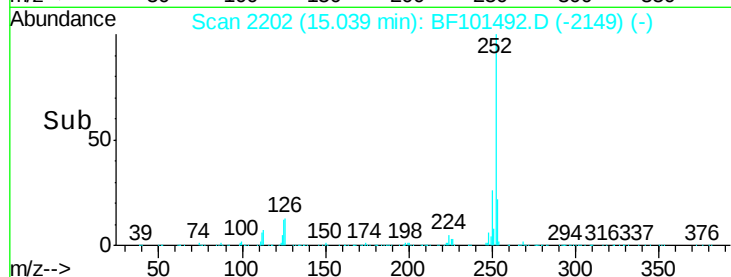
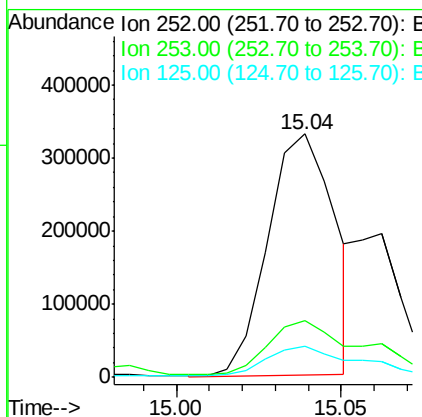
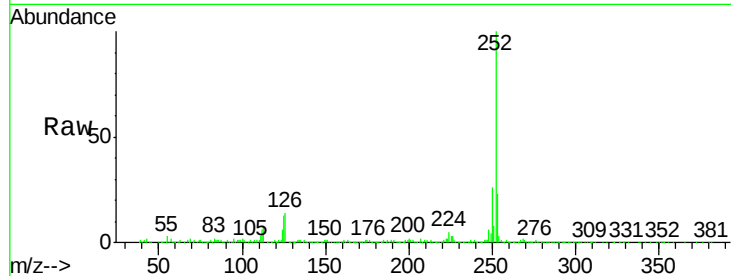
#87
Benzo(b)fluoranthene
Concen: 36.950 ng m
RT: 15.04 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	12.6	9.0	13.6

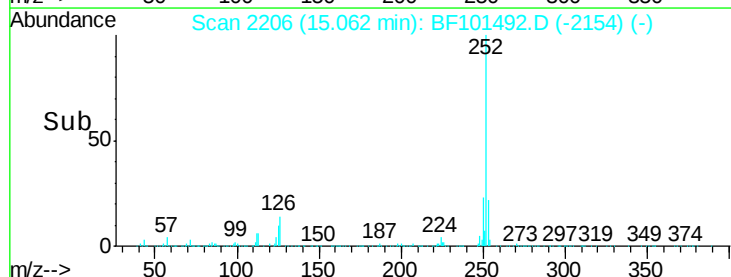
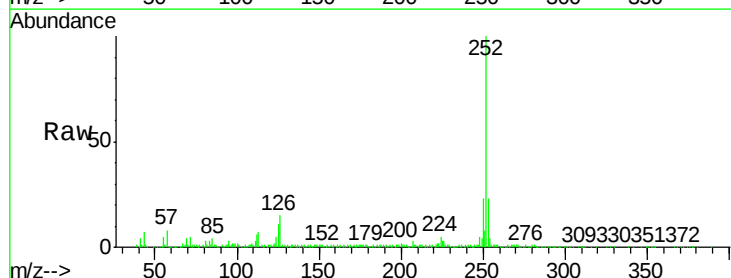
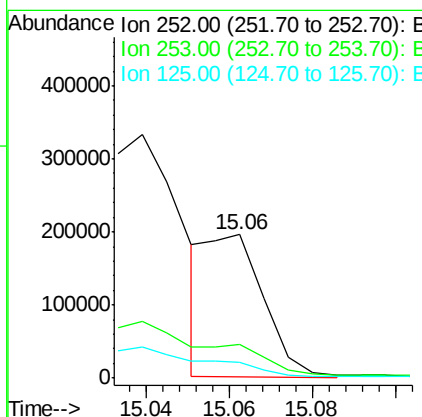
Manual Integrations
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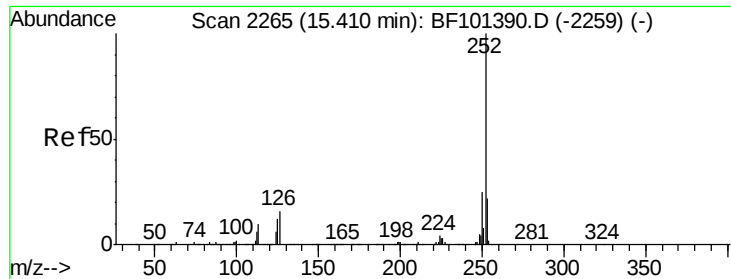
Sohil
12/19/2017 4:50:06 PM



#88
Benzo(k)fluoranthene
Concen: 15.098 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	11.1	10.2	15.2





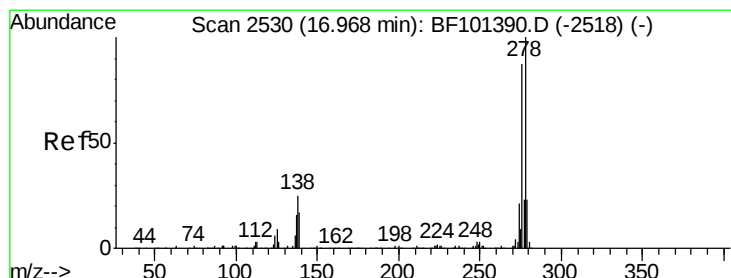
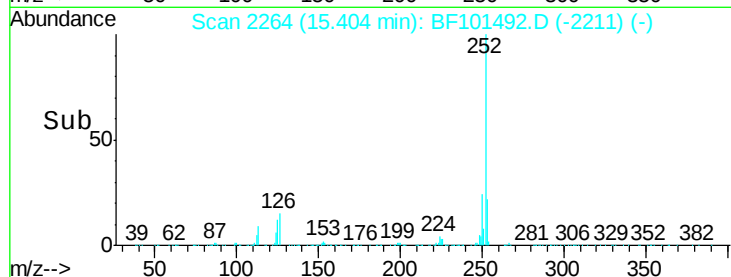
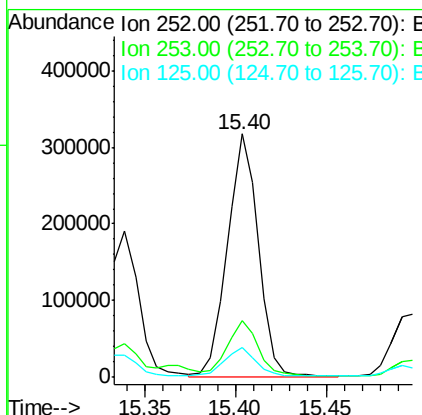
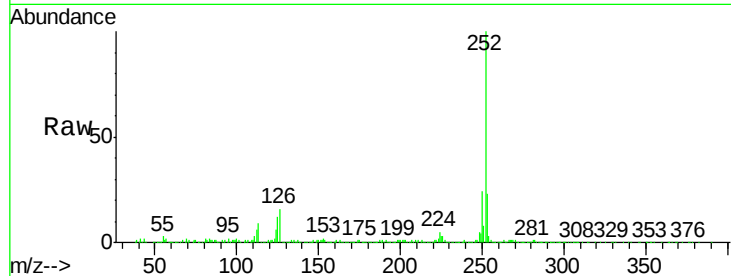
#89
Benzo(a)pyrene
Concen: 32.066 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.01 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Instrument :
BNA_F
ClientSampleId :
OR-01-121517-B

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	372575		
253	23.1	17.1	25.7	
125	12.4	9.8	14.6	

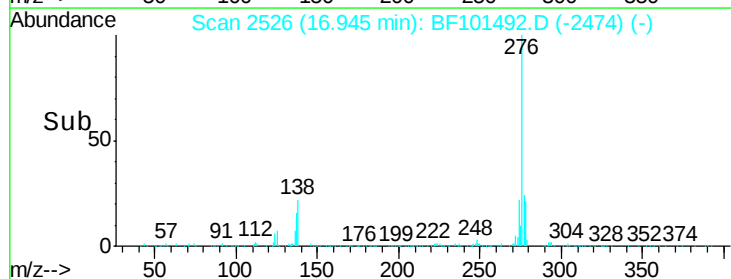
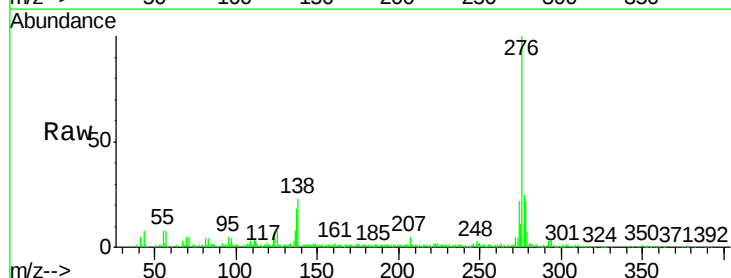
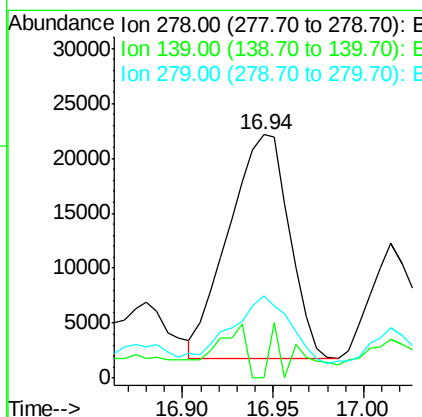
Manual Integrations
APPROVED

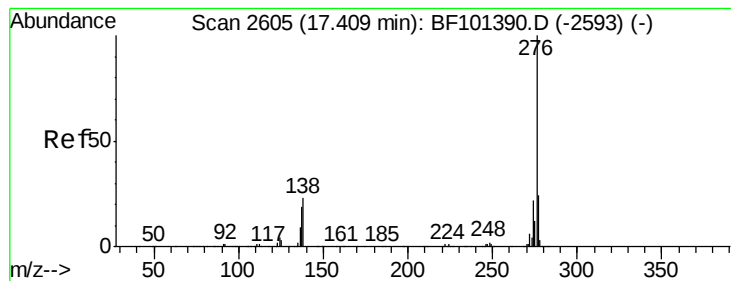
Sohil
12/19/2017 4:50:06 PM



#90
Dibenzo(a,h)anthracene
Concen: 4.762 ng
RT: 16.94 min Scan# 2526
Delta R.T. 0.01 min
Lab File: BF101492.D
Acq: 18 Dec 2017 20:30

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	47510		
139	0.0	15.9	23.9#	
279	34.0	19.0	28.4#	





#91

Benzo(g,h,i)perylene

Concen: 18.788 ng

RT: 17.40 min Scan# 2603

Delta R.T. 0.02 min

Lab File: BF101492.D

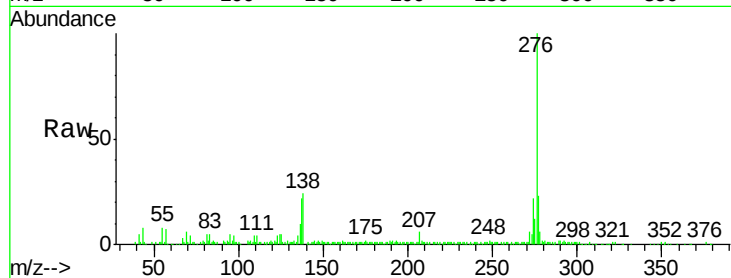
Acq: 18 Dec 2017 20:30

Instrument :

BNA_F

ClientSampleId :

OR-01-121517-B



Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	17.9	26.9
138	24.1	21.8	32.8

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