

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
 Data File : BF103943.D
 Acq On : 26 Mar 2018 23:25
 Operator : JU/SJ
 Sample : J2047-01 2X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCA

Manual Integrations
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 3/27/2018 2:15:53 PM

Quant Time: Mar 27 08:27:48 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	140891	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	571688	20.00	ng	0.00
38) Acenaphthene-d10	10.02	164	252919	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	405820	20.00	ng	0.00
75) Chrysene-d12	14.16	240	272551	20.00	ng	0.00
86) Perylene-d12	15.72	264	265471	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	59051	6.37	ng	0.00
7) Phenol-d6	6.59	99	250781	22.13	ng	0.00
23) Nitrobenzene-d5	7.53	82	181681	22.16	ng	0.00
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.33	172	383867	24.21	ng	0.00
78) Terphenyl-d14	13.09	244	300475	25.59	ng	0.00
Target Compounds						
31) Naphthalene	8.28	128	96642	3.346	ng	Qvalue 97
51) Acenaphthene	10.05	154	89854	5.826	ng	100
54) Dibenzofuran	10.22	168	58179	2.641	ng	95
57) Fluorene	10.56	166	71659	4.192	ng	99
70) Phenanthrene	11.53	178	645523	29.079	ng	99
71) Anthracene	11.59	178	193272	8.572	ng	98
72) Carbazole	11.74	167	104808	4.783	ng	98
74) Fluoranthene	12.73	202	720620	31.509	ng	97
77) Pyrene	12.96	202	596471	29.800	ng	99
79) Butylbenzylphthalate	13.56	149	97120	10.952	ng	99
80) Benzo(a)anthracene	14.16	228	297044	17.218	ng	99
82) Chrysene	14.19	228	265445	16.140	ng	97
83) Bis(2-ethylhexyl)phthalate	14.12	149	285838	22.562	ng	99
85) Indeno(1,2,3-cd)pyrene	17.29	276	123464	8.596	ng	# 93
87) Benzo(b)fluoranthene	15.25	252	307670m	18.344	ng	
88) Benzo(k)fluoranthene	15.28	252	118547m	7.353	ng	
89) Benzo(a)pyrene	15.64	252	223542	14.695	ng	96
90) Dibenzo(a,h)anthracene	17.30	278	32690	2.482	ng	# 89
91) Benzo(a,h,i)perylene	17.78	276	108910	8.499	ng	95

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

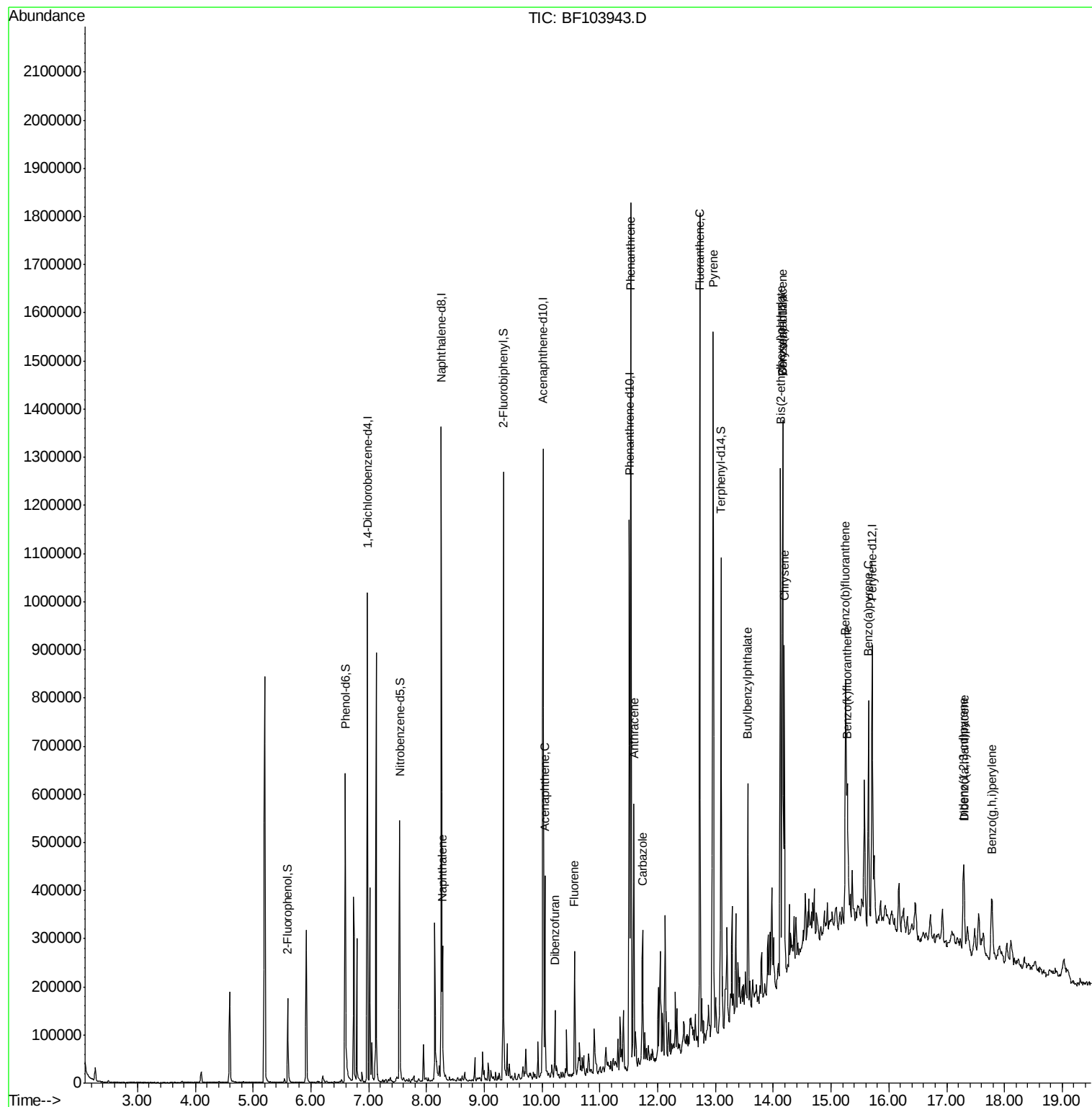
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
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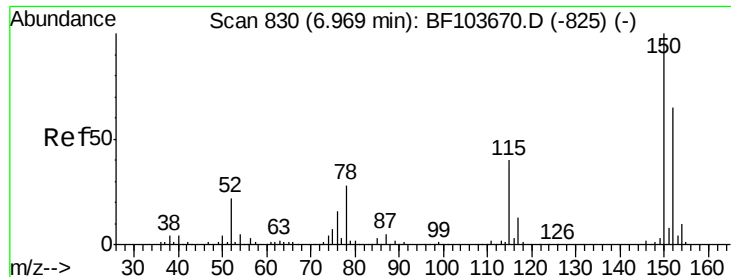
Instrument :
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C1-CARVER-HALL-RCA

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#1

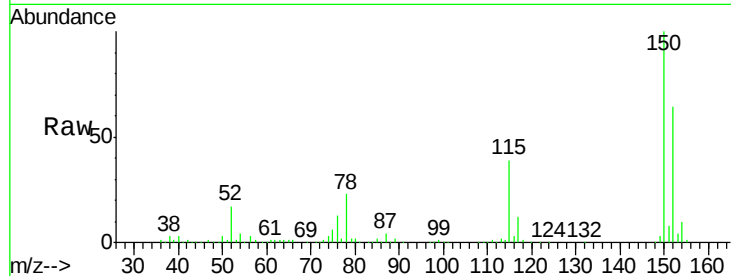
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

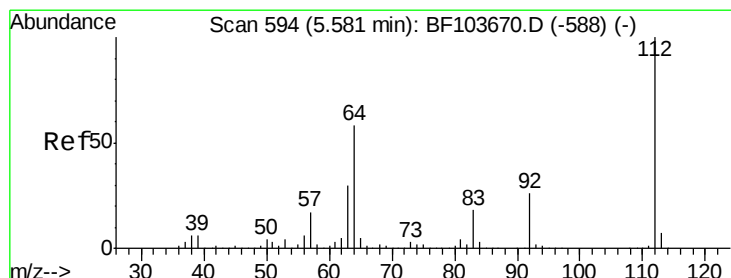
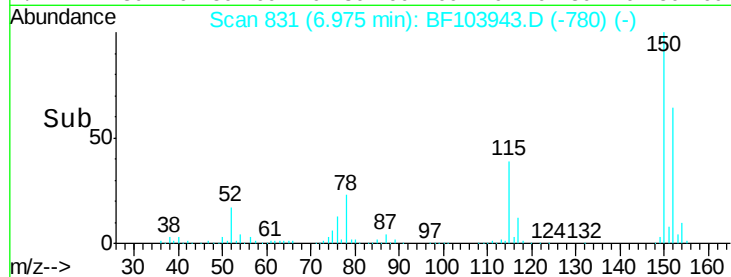
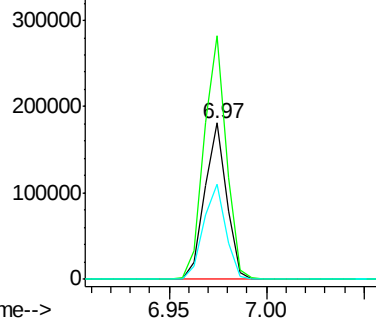
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.6	186.8
115	60.7	50.1	75.1

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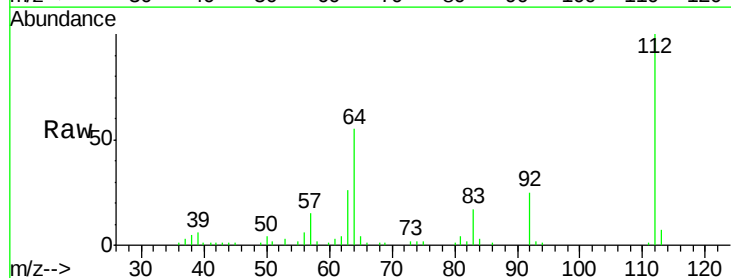
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



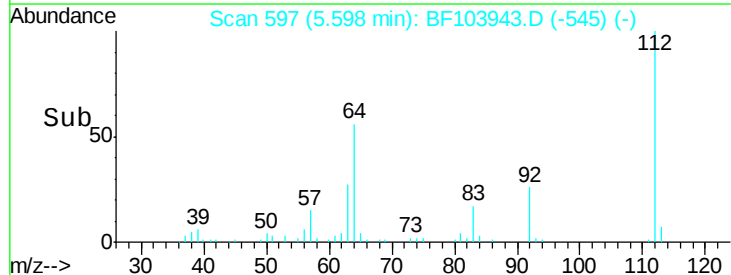
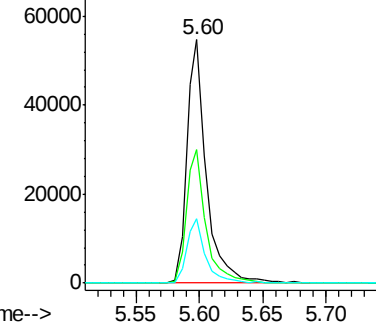
#5

2-Fluorophenol
Concen: 6.375 ng
RT: 5.60 min Scan# 597
Delta R.T. 0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	47.9	71.9
63	26.2	23.7	35.5



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





#7

Phenol-d6

Concen: 22.129 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Instrument :

BNA_F

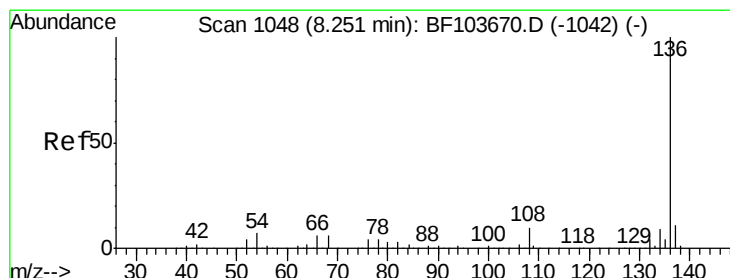
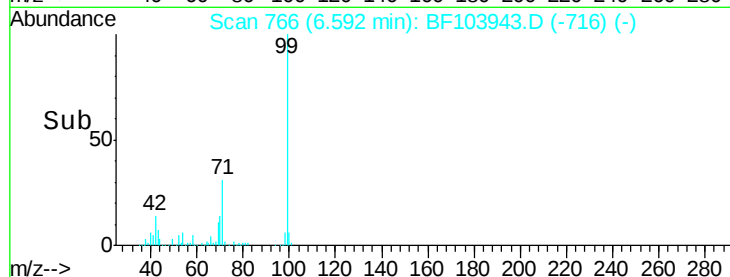
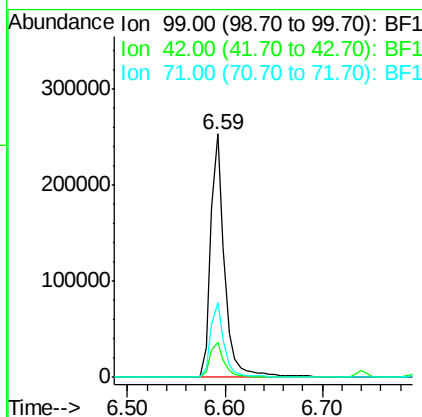
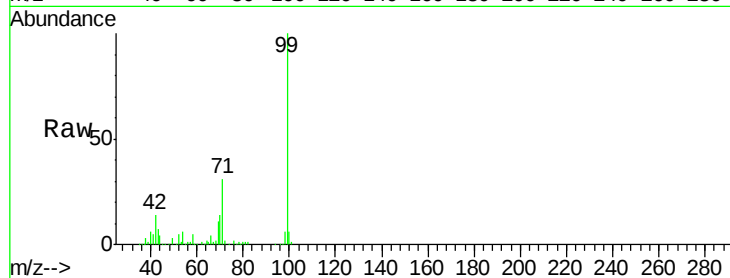
ClientSampleId :

C1-CARVER-HALL-RCA

Tot Ion:	99	Resp:	250781
Ion Ratio	Lower	Upper	
99	100		
42	14.4	14.5	21.7#
71	30.6	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

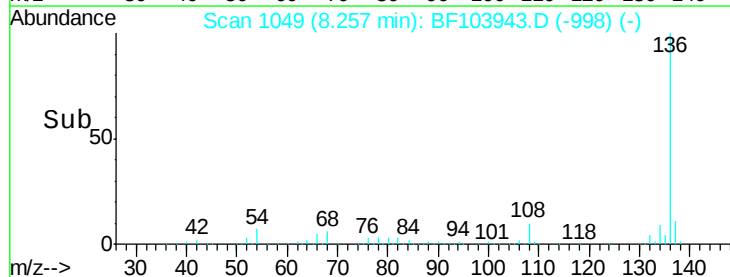
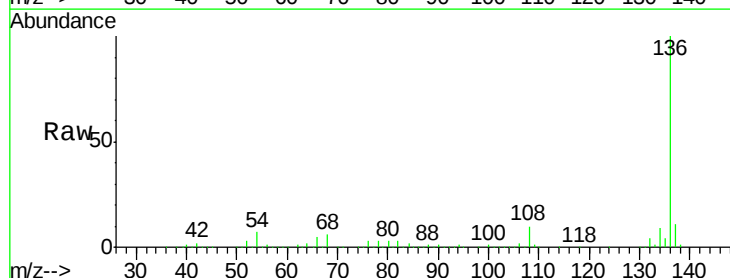
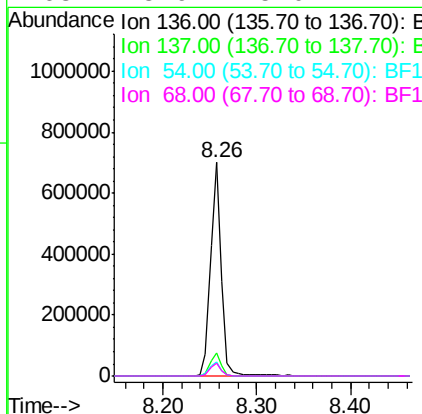
RT: 8.26 min Scan# 1049

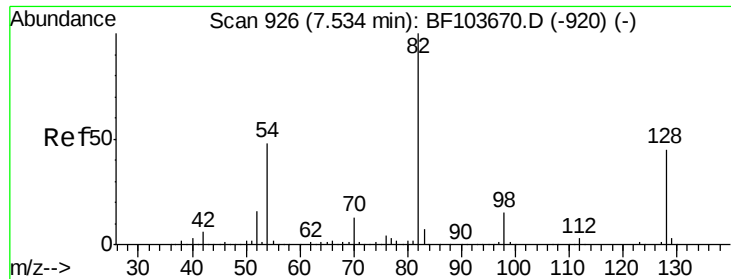
Delta R.T. -0.00 min

Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Tgt Ion:	136	Resp:	571688
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.9	13.3
54	6.6	6.6	9.8
68	5.9	5.0	7.4





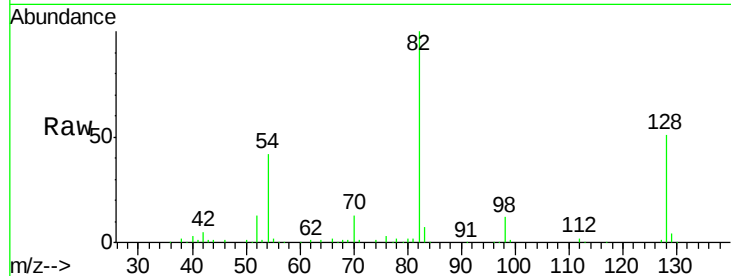
#23
Nitrobenzene-d5
Concen: 22.162 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

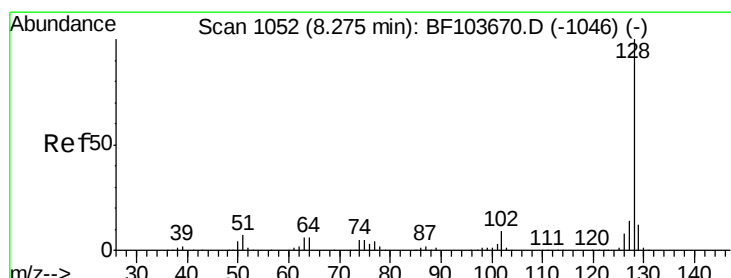
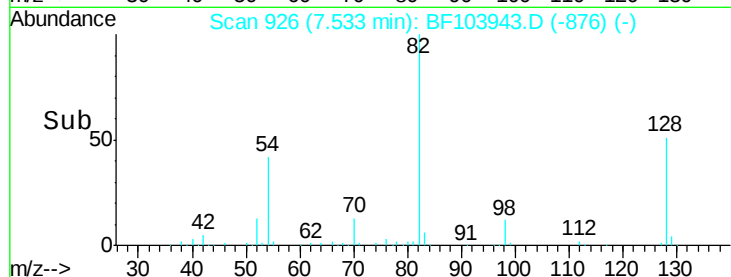
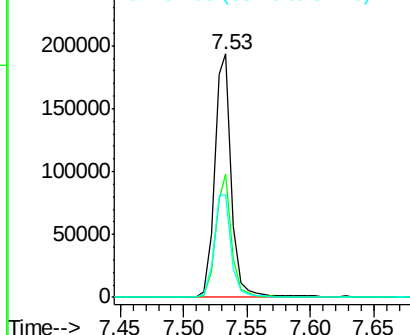
Tot Ion	Ratio	Lower	Upper
82	100		
128	50.6	36.1	54.1
54	42.4	41.4	62.2

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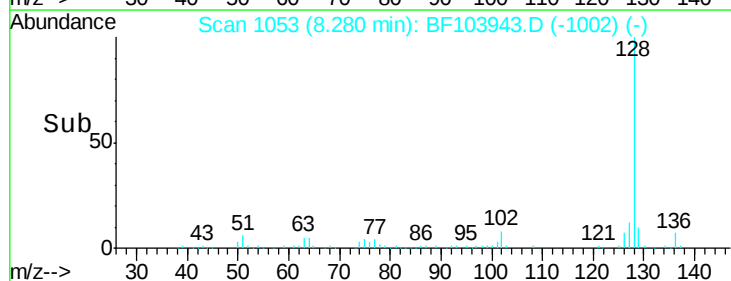
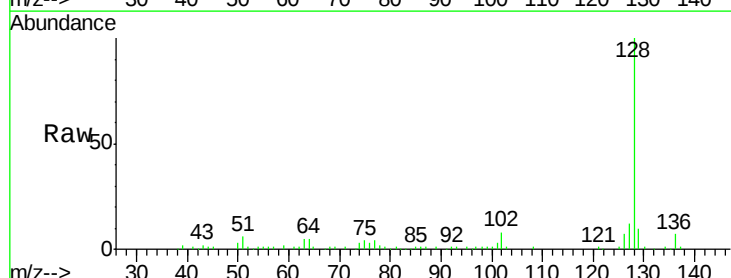
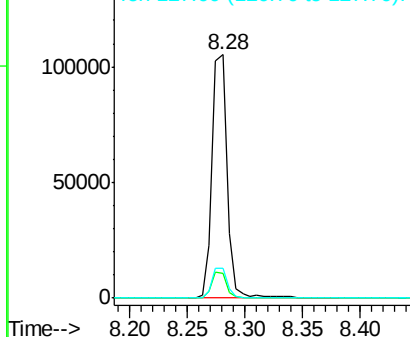
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

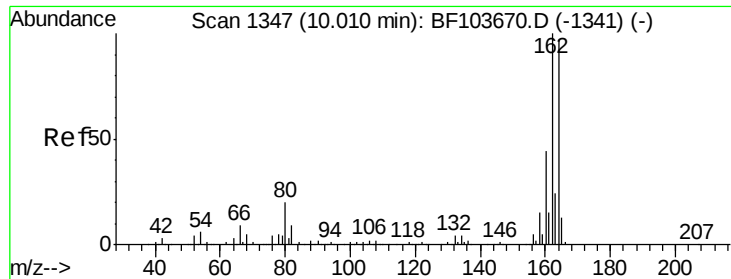


#31
Naphthalene
Concen: 3.346 ng
RT: 8.28 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.2	8.8	13.2
127	12.3	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





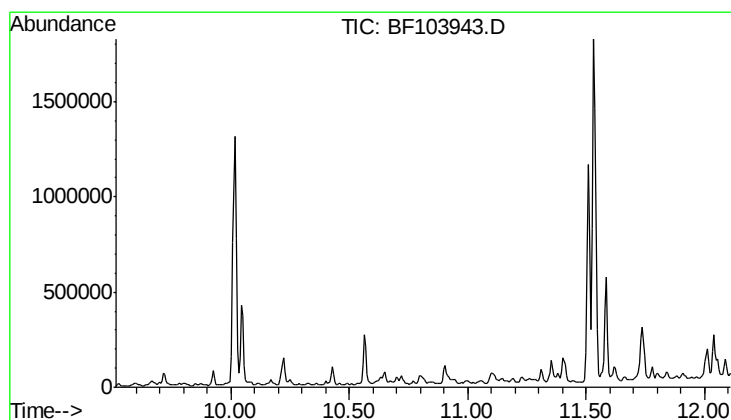
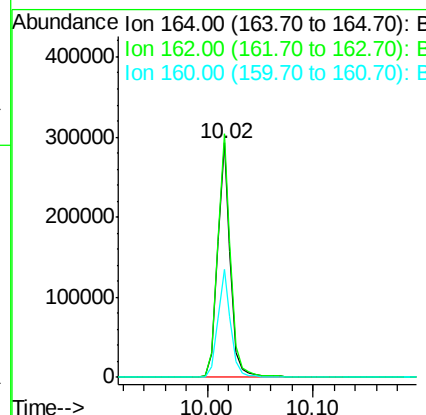
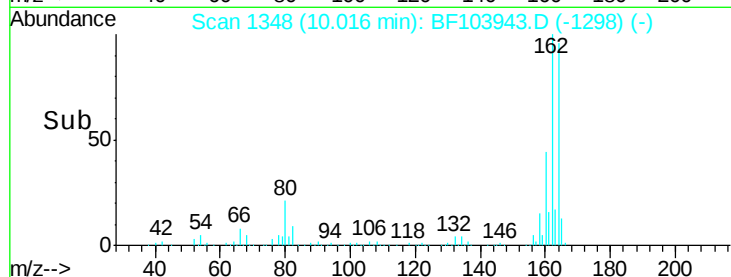
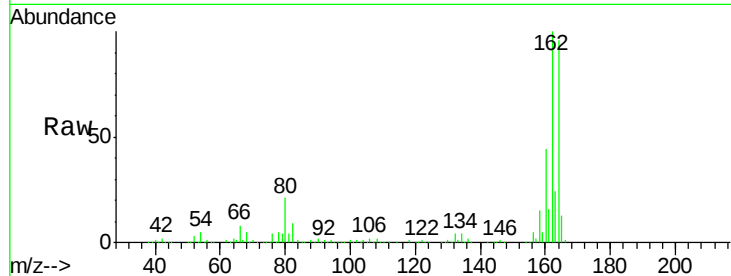
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.02 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: BF103943.D
 Acq: 26 Mar 2018 23:25

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCA

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.9	86.1	129.1	
160	45.9	38.3	57.5	

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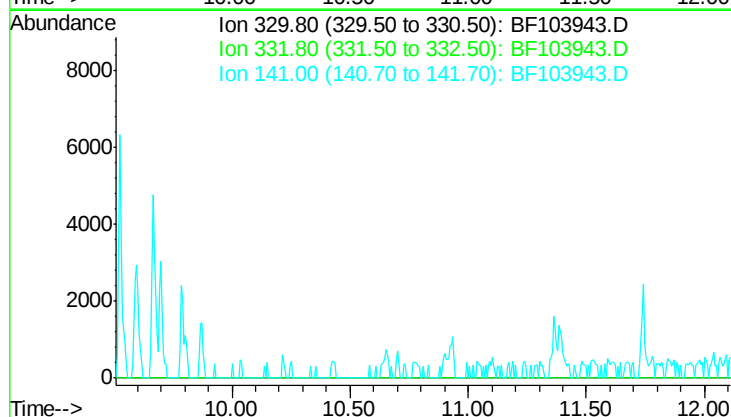
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#41
 2,4,6-Tribromophenol
 Concen: 0.000 ng
 Expected RT: 10.81 min

Lab File: BF103943.D
 Acq: 26 Mar 2018 23:25

Tgt Ion	Sig	Exp Ratio
330	100	
332	96.3	
141	37.4	





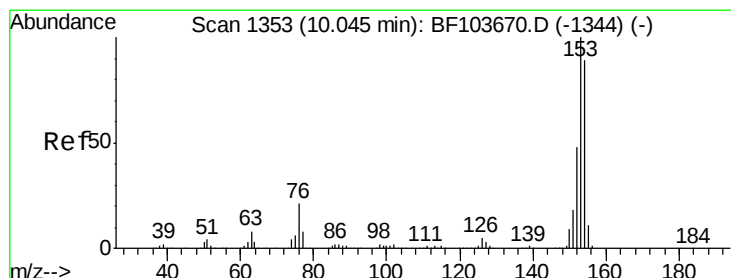
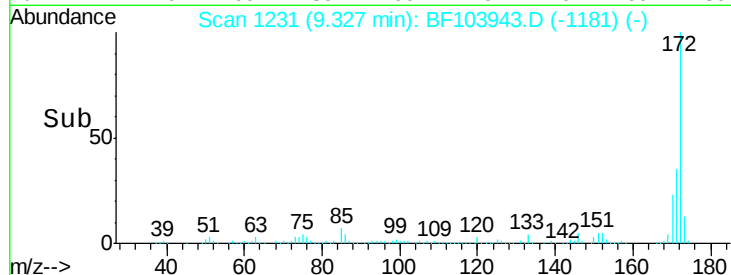
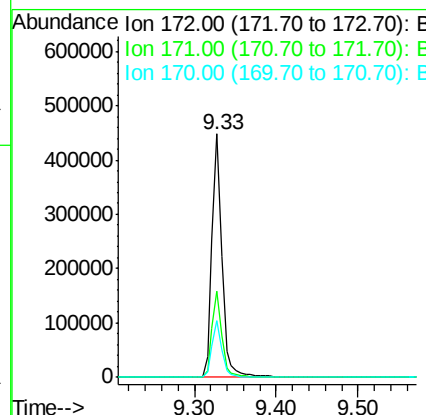
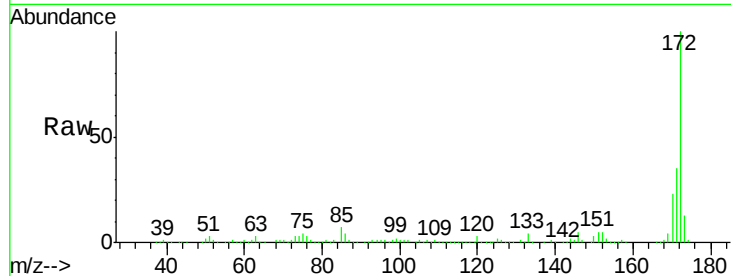
#44
2-Fluorobiphenyl
Concen: 24.210 ng
RT: 9.33 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.7	44.5
170	23.2	19.6	29.4

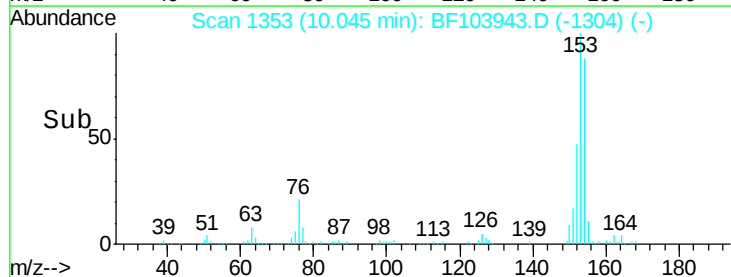
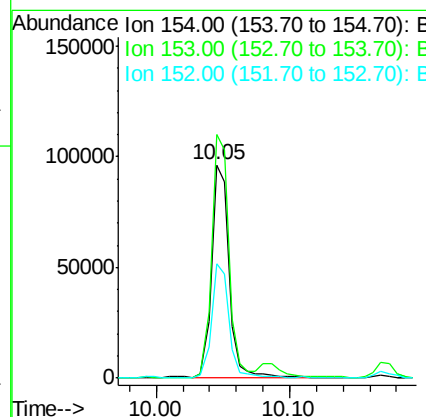
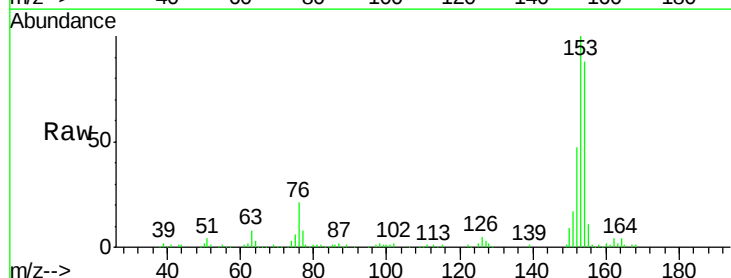
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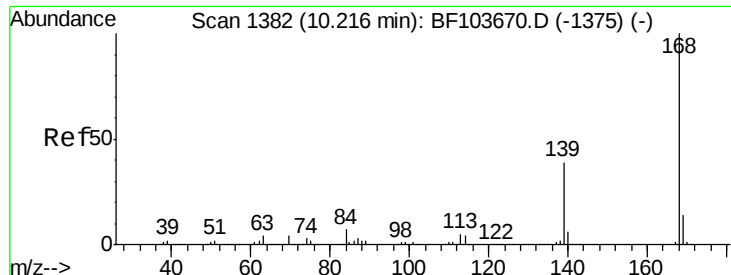
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#51
Acenaphthene
Concen: 5.826 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.1	91.2	136.8
152	53.8	43.8	65.8





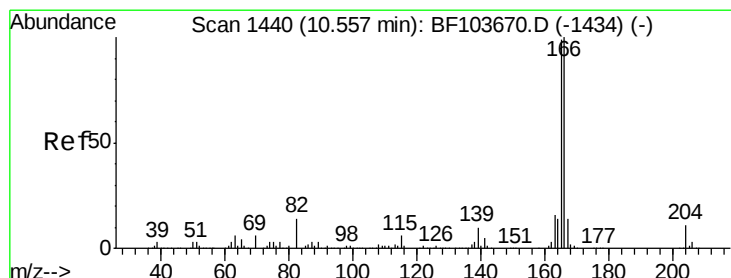
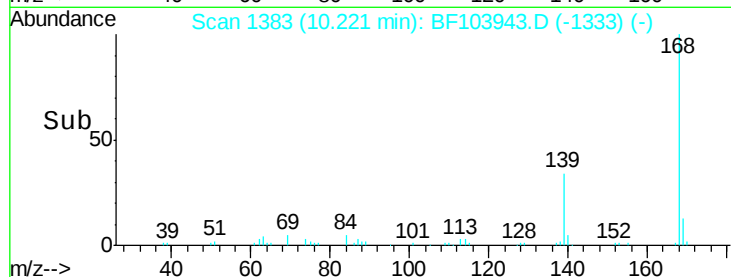
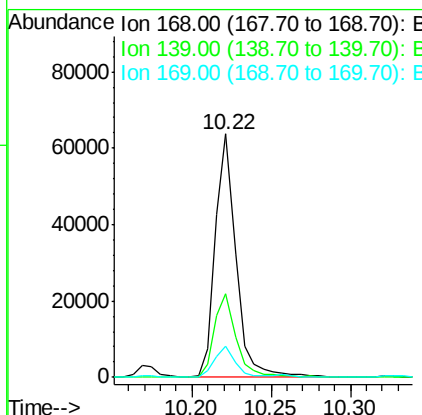
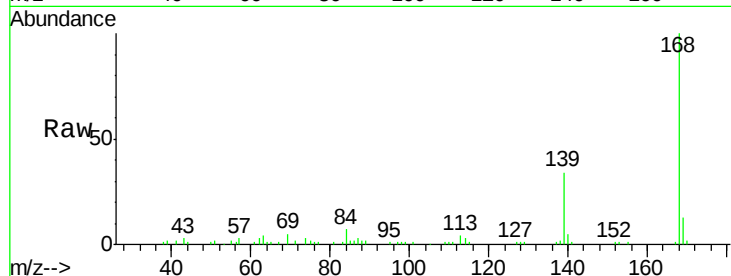
#54
Dibenzenofuran
Concen: 2.641 ng
RT: 10.22 min Scan# 1383
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
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C1-CARVER-HALL-RCA

Tot Ion	Ratio	Lower	Upper
168	100		
139	34.2	30.1	45.1
169	13.0	10.9	16.3

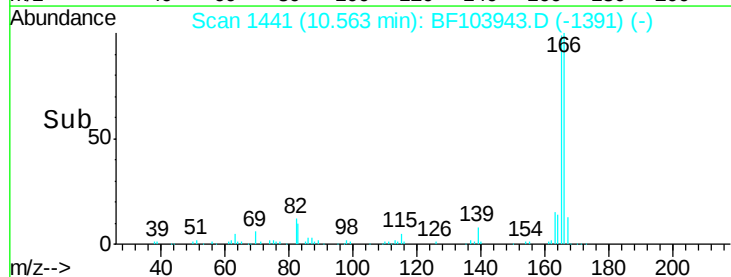
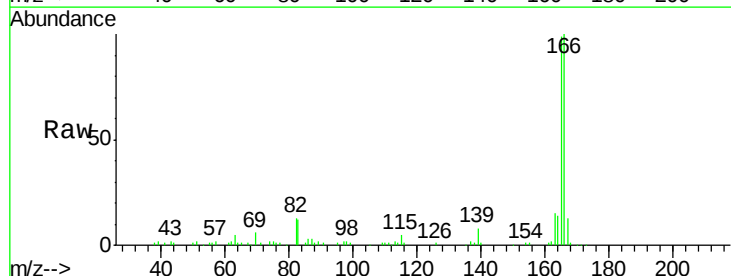
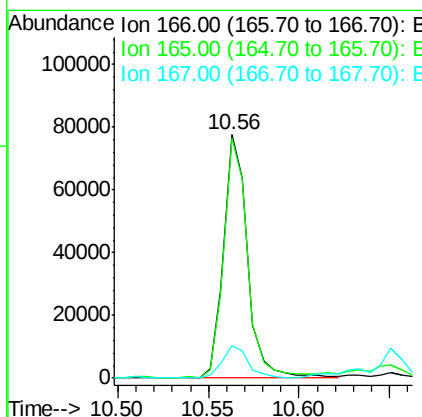
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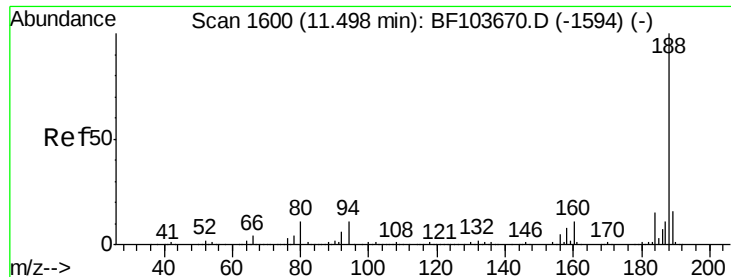
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#57
Fluorene
Concen: 4.192 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.8	119.8
167	13.3	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.51 min Scan# 1602

Delta R.T. -0.00 min

Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Instrument :

BNA_F

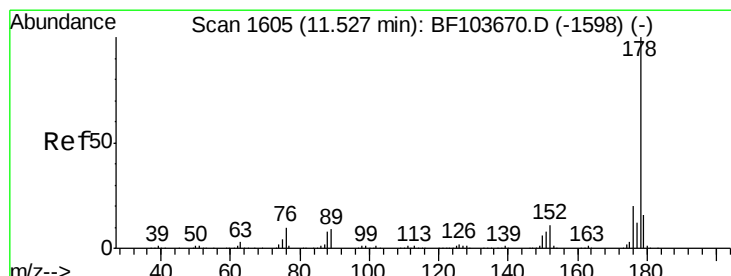
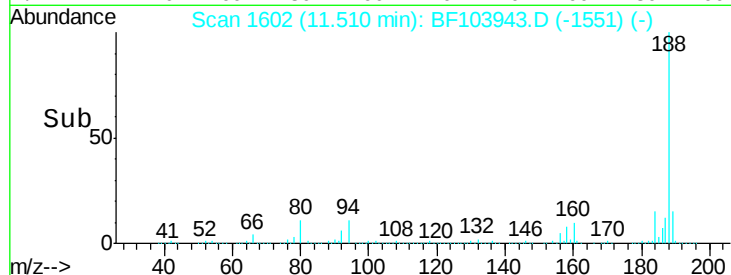
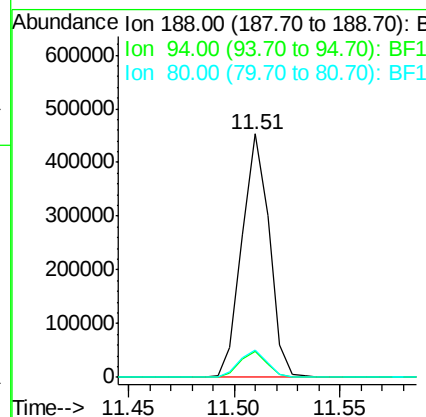
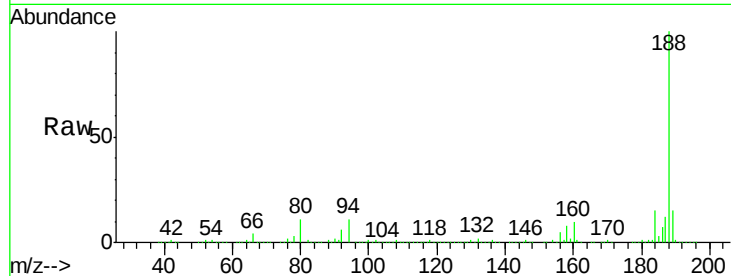
ClientSampleId :

C1-CARVER-HALL-RCA

Tot Ion:	188	Resp:	405820
Ion Ratio	Lower	Upper	
188	100		
94	10.6	8.5	12.7
80	11.3	9.2	13.8

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#70

Phenanthrene

Concen: 29.079 ng

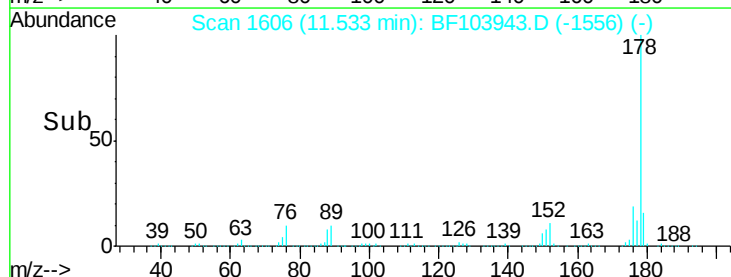
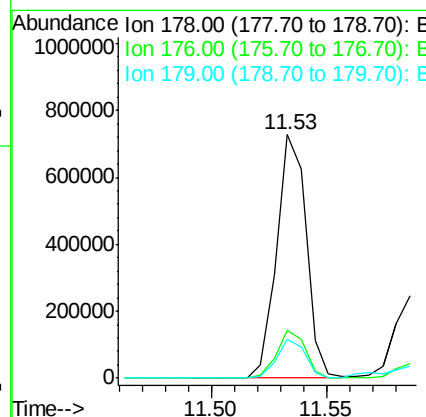
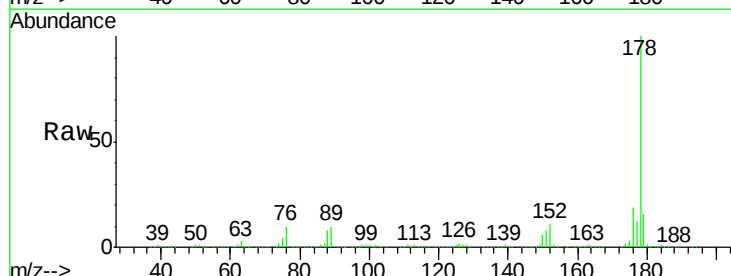
RT: 11.53 min Scan# 1606

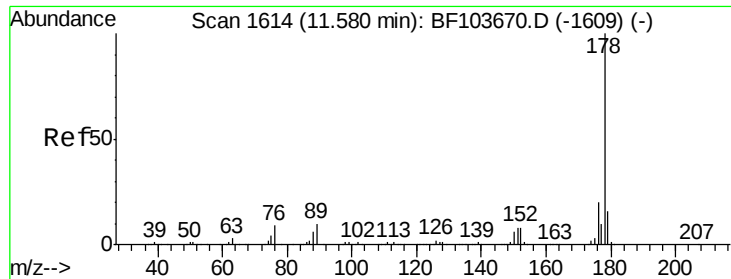
Delta R.T. -0.01 min

Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Tgt Ion:	178	Resp:	645523
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.8	23.8
179	15.8	13.0	19.6





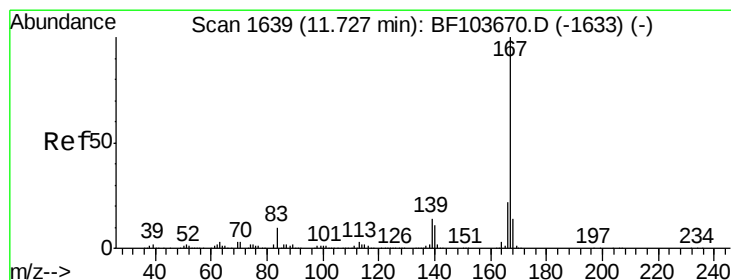
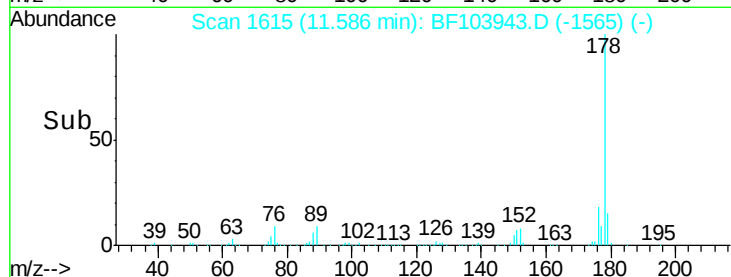
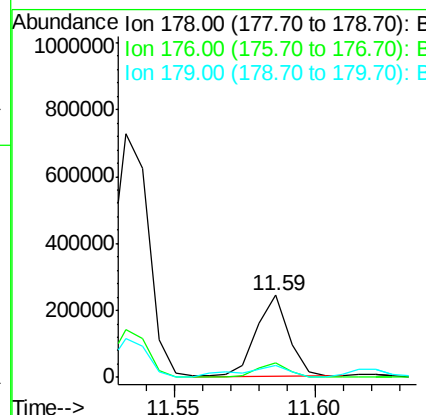
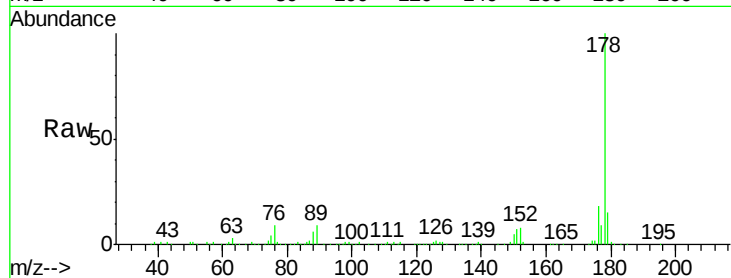
#71
 Anthracene
 Concen: 8.572 ng
 RT: 11.59 min Scan# 1615
 Delta R.T. -0.01 min
 Lab File: BF103943.D
 Acq: 26 Mar 2018 23:25

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCA

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.0	12.6	19.0

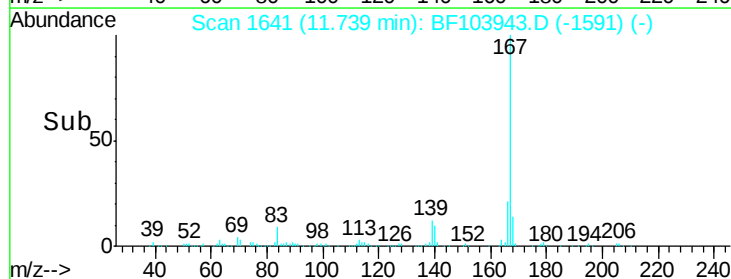
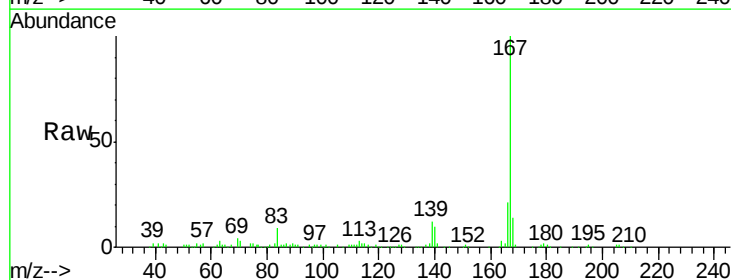
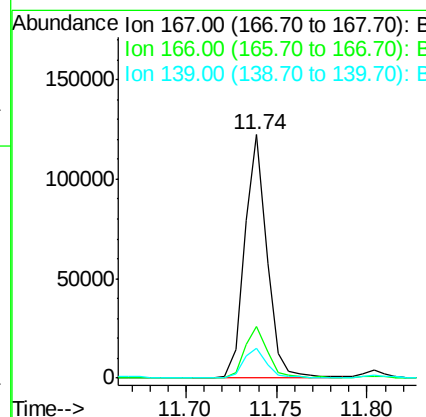
Manual Integrations
 APPROVED

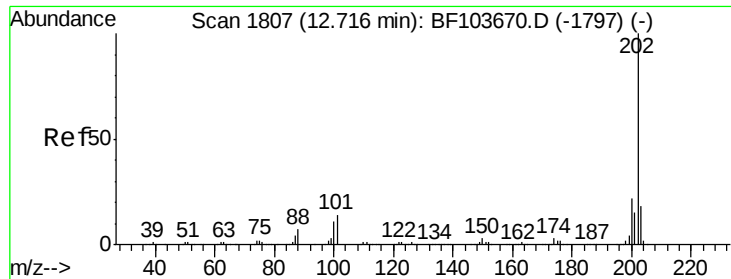
Sohil
 3/27/2018 2:15:53 PM



#72
 Carbazole
 Concen: 4.783 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. -0.01 min
 Lab File: BF103943.D
 Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.6	26.4
139	12.4	10.9	16.3





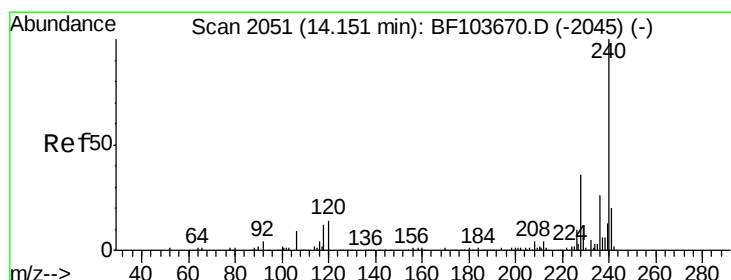
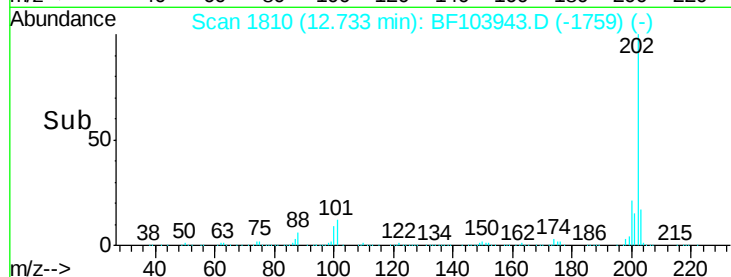
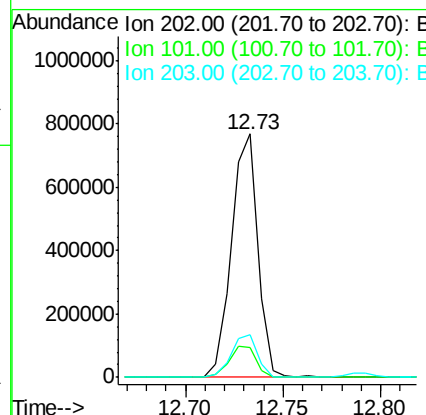
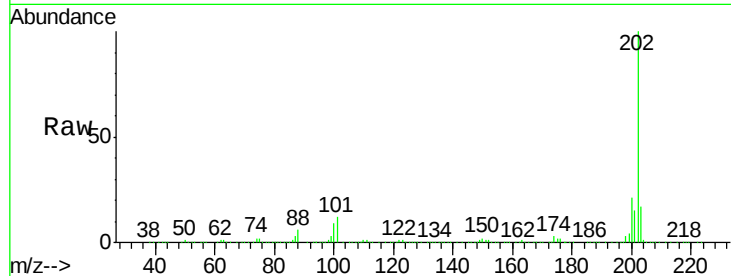
#74
Fluoranthene
Concen: 31.509 ng
RT: 12.73 min Scan# 1810
Delta R.T. -0.00 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	12.1	0.0	34.1
203	17.4	0.0	38.1

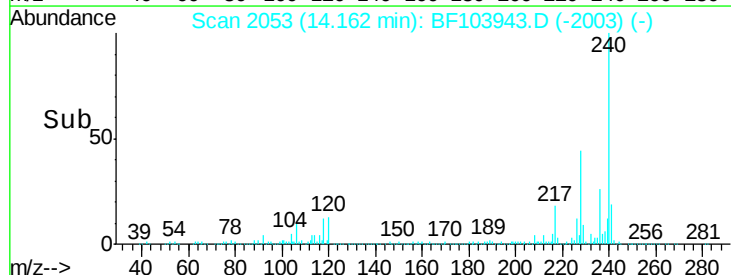
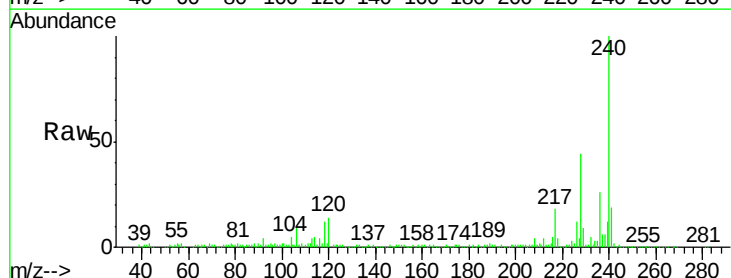
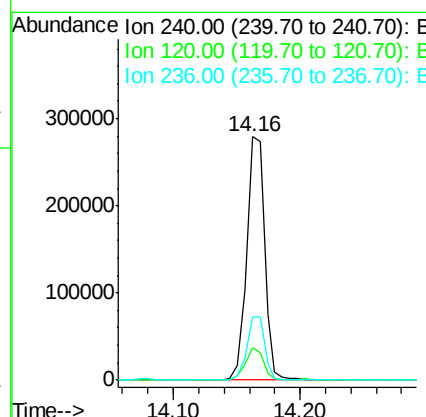
Manual Integrations
APPROVED

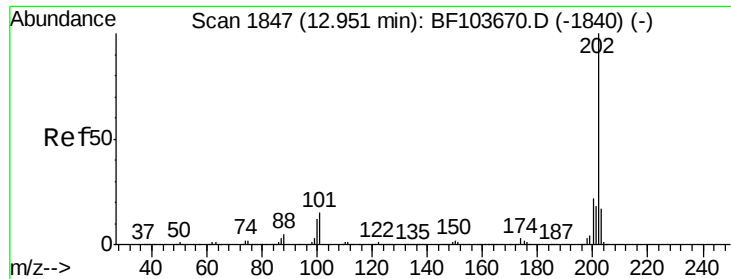
Sohil
3/27/2018 2:15:53 PM



#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.16 min Scan# 2053
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	13.6	9.5	14.3
236	25.7	20.7	31.1





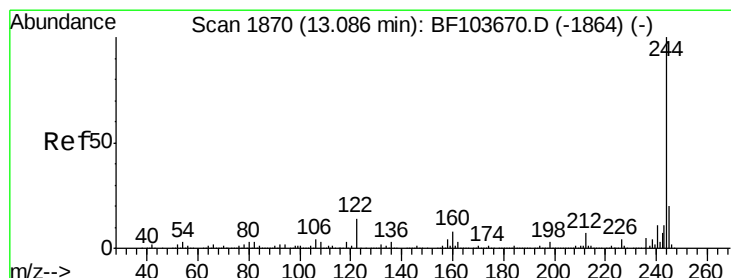
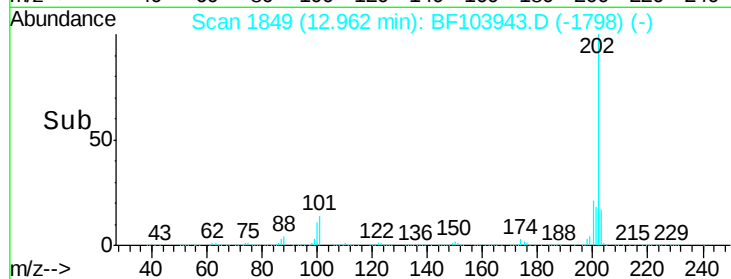
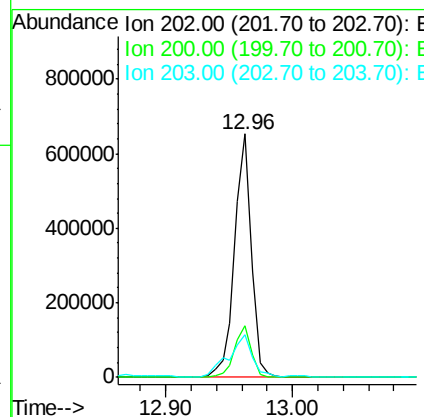
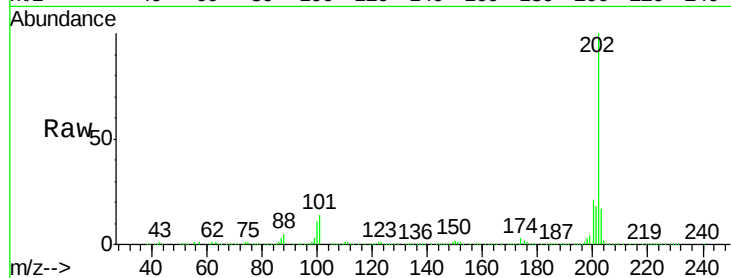
#77
Pvrene
Concen: 29.800 ng
RT: 12.96 min Scan# 1849
Delta R.T. -0.00 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.1	17.4	26.2
203	17.4	14.3	21.5

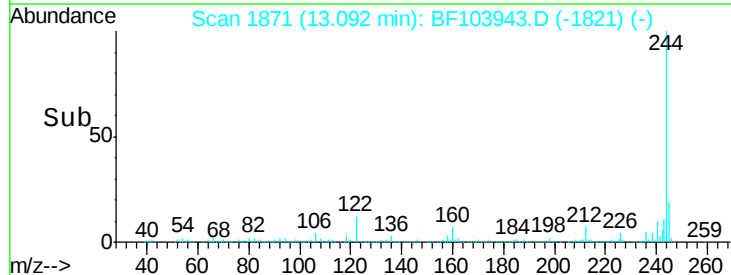
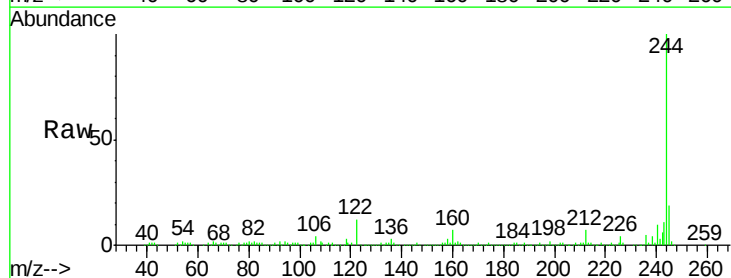
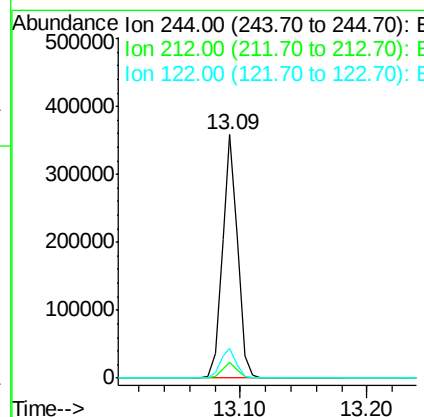
Manual Integrations
APPROVED

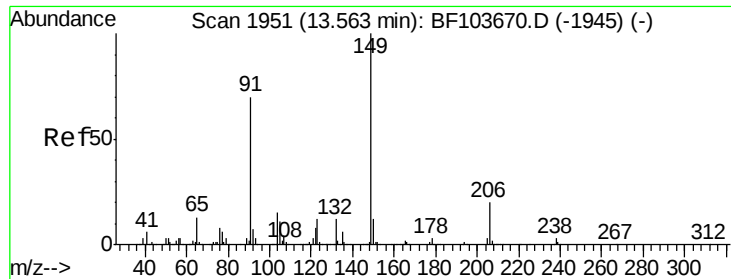
Sohil
3/27/2018 2:15:53 PM



#78
Terphenyl-d14
Concen: 25.590 ng
RT: 13.09 min Scan# 1871
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	6.5	5.4	8.0
122	12.3	11.0	16.4





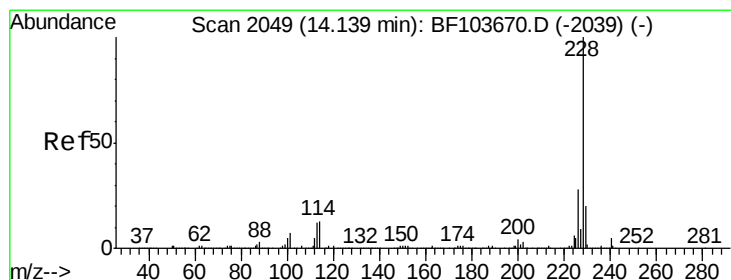
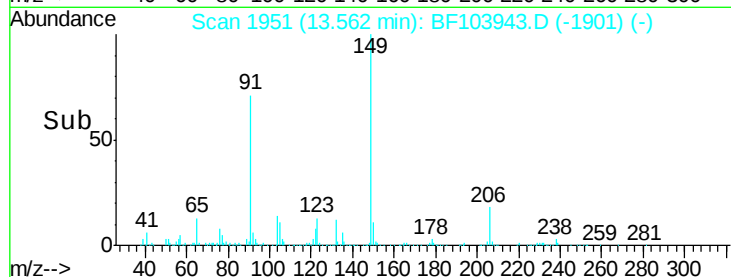
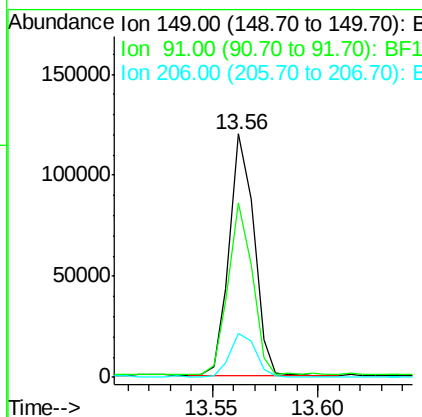
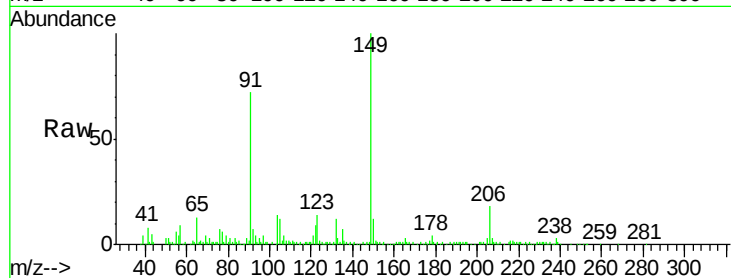
#79
Butylbenzylphthalate
Concen: 10.952 ng
RT: 13.56 min Scan# 1951
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

Tot Ion	Ratio	Lower	Upper
149	100		
91	71.7	56.8	85.2
206	18.2	14.1	21.1

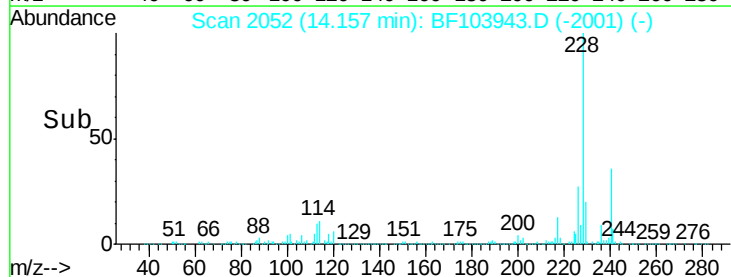
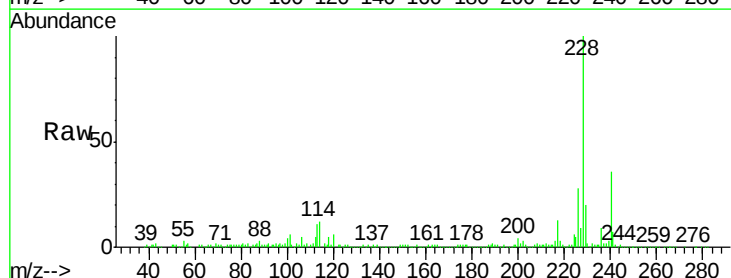
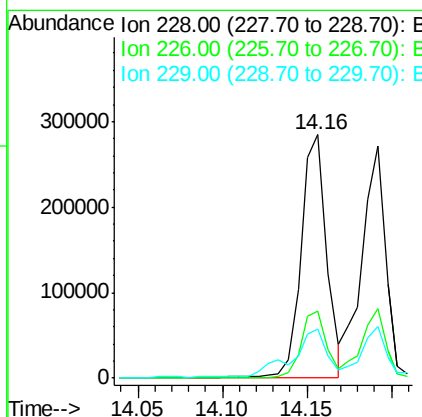
Manual Integrations
APPROVED

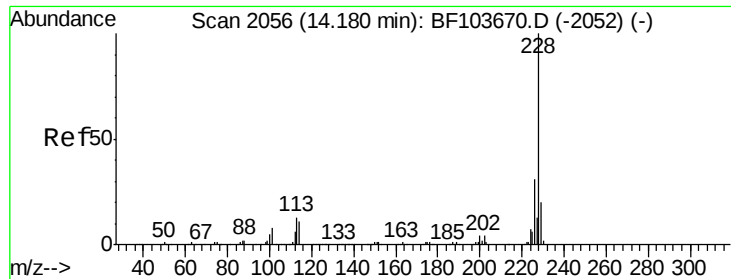
Sohil
3/27/2018 2:15:53 PM



#80
Benzo(a)anthracene
Concen: 17.218 ng
RT: 14.16 min Scan# 2052
Delta R.T. -0.00 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.6	33.8
229	20.3	15.8	23.6





#82

Chrysene

Concen: 16.140 ng

RT: 14.19 min Scan# 2058

Delta R.T. -0.01 min

Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Instrument :

BNA_F

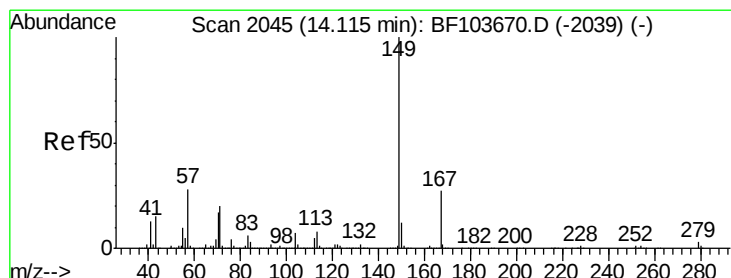
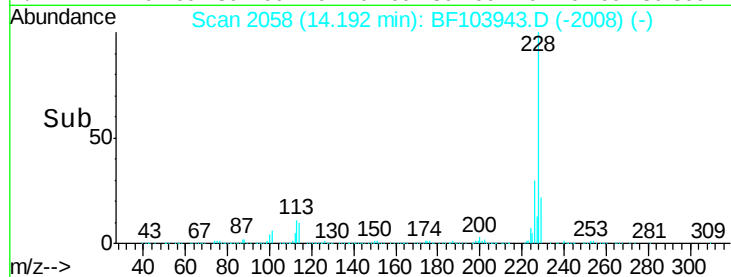
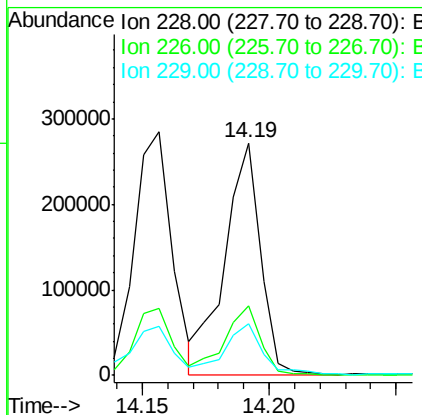
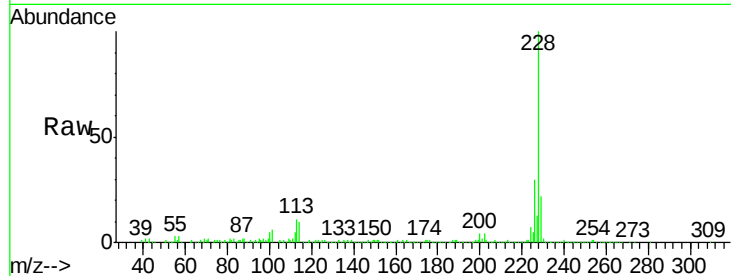
ClientSampleId :

C1-CARVER-HALL-RCA

Tot Ion:	228	Resp:	265445
Ion Ratio	Lower	Upper	
228	100		
226	29.8	25.0	37.6
229	22.2	16.2	24.4

Manual Integrations
APPROVED

Sohil
3/27/2018 2:15:53 PM



#83

Bis(2-ethylhexyl)phthalate

Concen: 22.562 ng

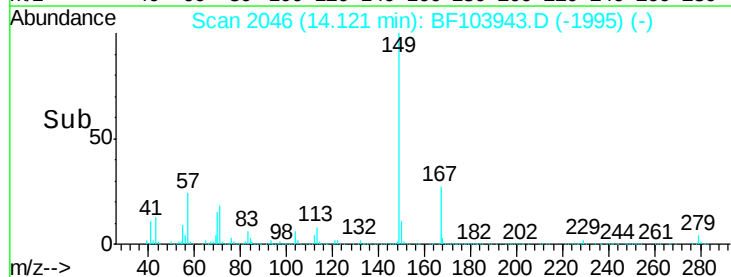
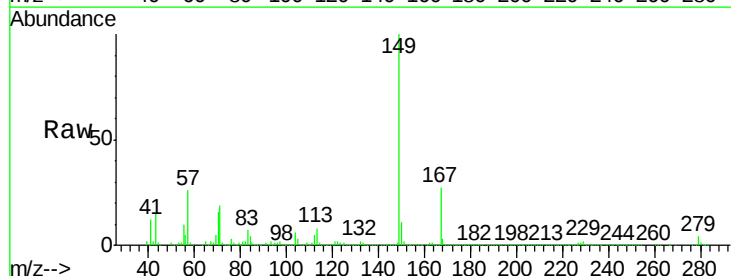
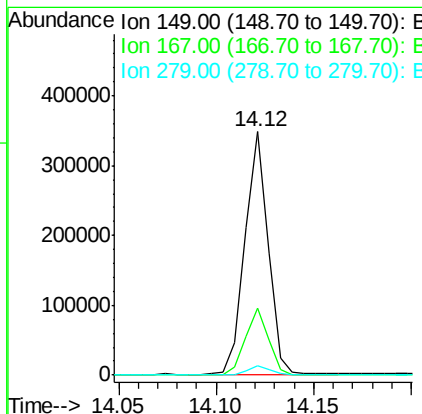
RT: 14.12 min Scan# 2046

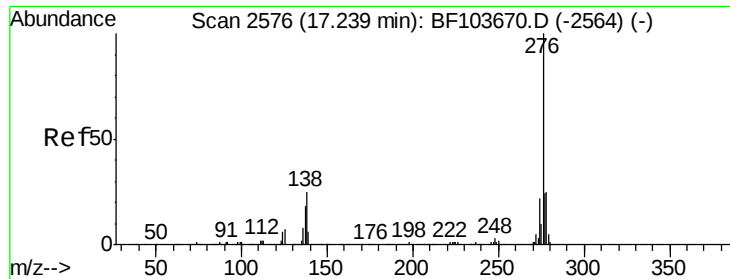
Delta R.T. -0.00 min

Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Tgt Ion:	149	Resp:	285838
Ion Ratio	Lower	Upper	
149	100		
167	27.3	21.3	31.9
279	3.7	3.0	4.4





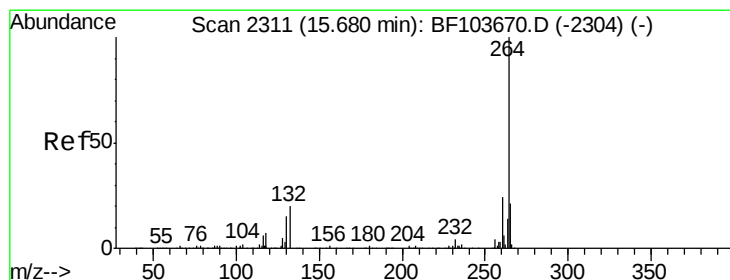
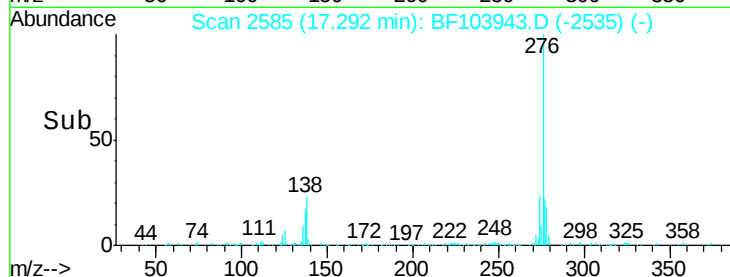
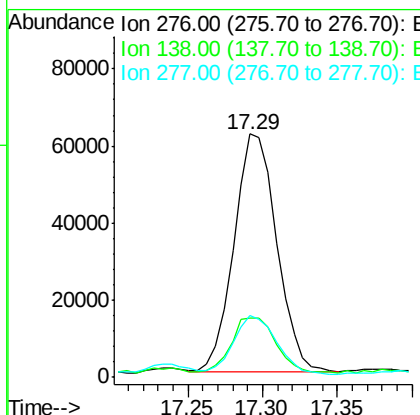
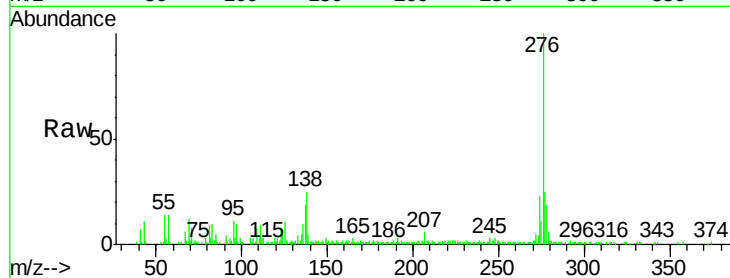
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.596 ng
RT: 17.29 min Scan# 2585
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

Tot Ion	Ratio	Lower	Upper
276	100		
138	24.4	25.0	37.6#
277	25.3	20.1	30.1

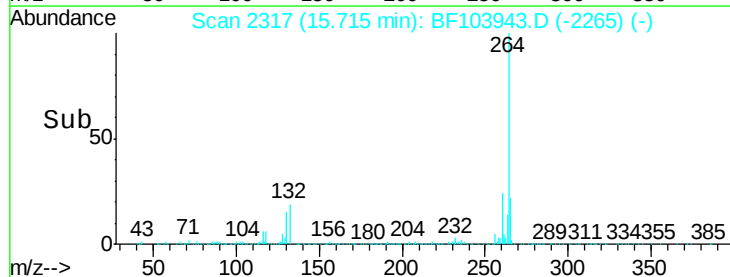
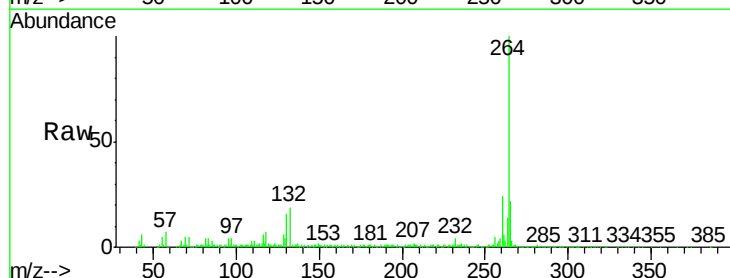
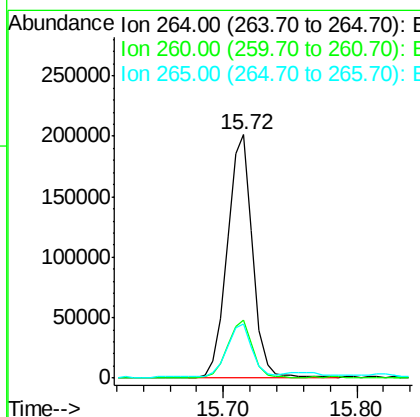
Manual Integrations
APPROVED

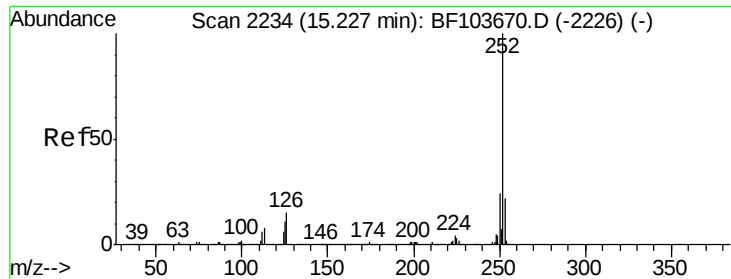
Sohil
3/27/2018 2:15:53 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.72 min Scan# 2317
Delta R.T. 0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	22.0	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 18.344 ng m

RT: 15.25 min Scan# 2238

Delta R.T. -0.00 min

Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Instrument :

BNA_F

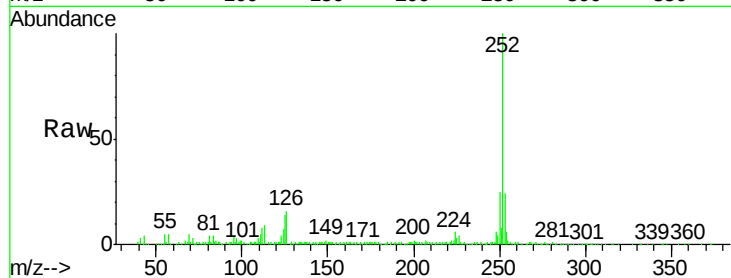
ClientSampleId :

C1-CARVER-HALL-RCA

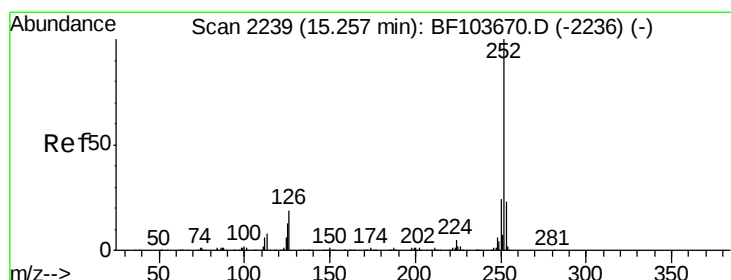
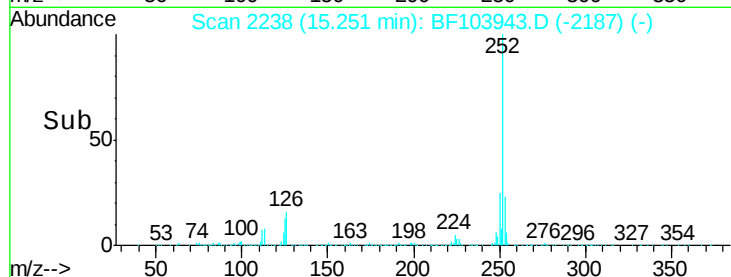
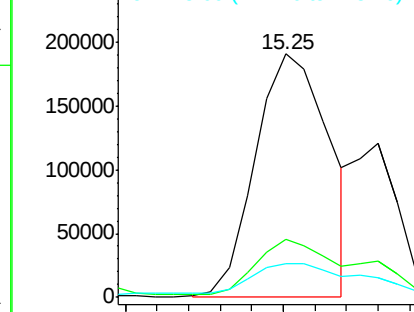
Tot Ion:	252	Resp:	307670
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.0	25.6
125	14.1	9.0	13.6

Manual Integrations
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3/27/2018 2:15:53 PM



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



#88

Benzo(k)fluoranthene

Concen: 7.353 ng m

RT: 15.28 min Scan# 2243

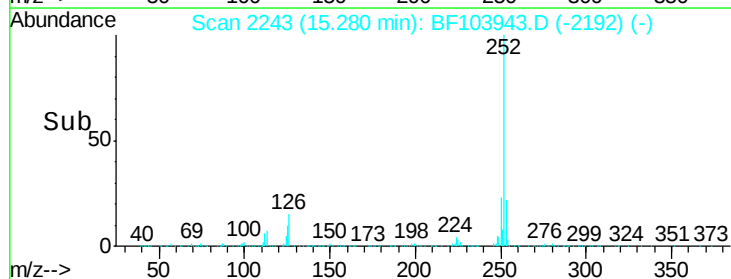
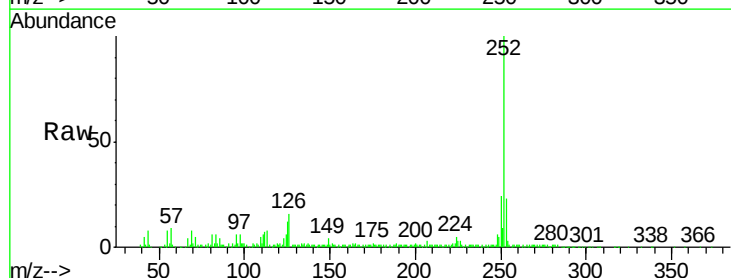
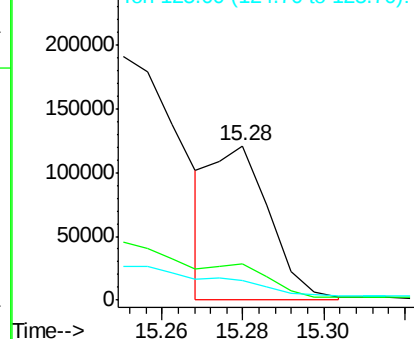
Delta R.T. -0.00 min

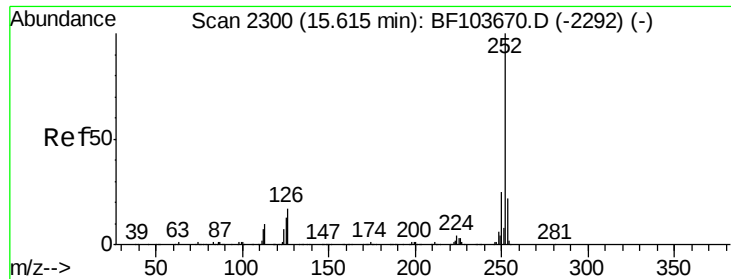
Lab File: BF103943.D

Acq: 26 Mar 2018 23:25

Tgt Ion:	252	Resp:	118547
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.9	26.9
125	12.4	10.2	15.2

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





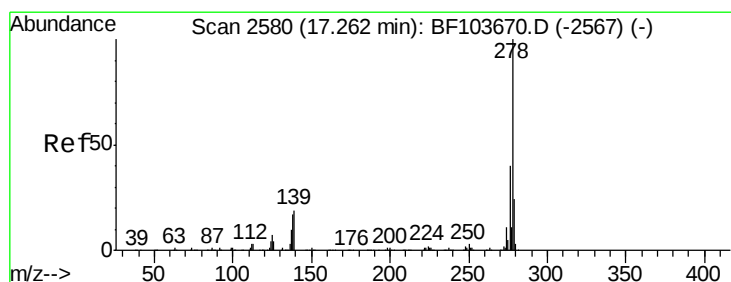
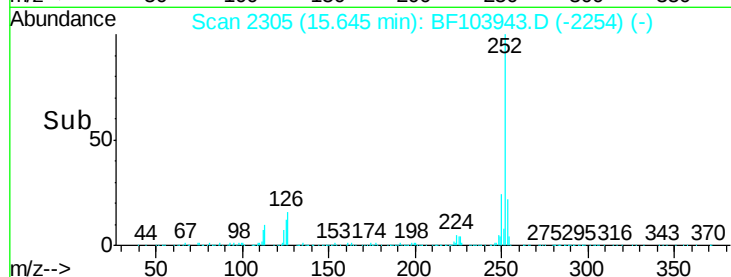
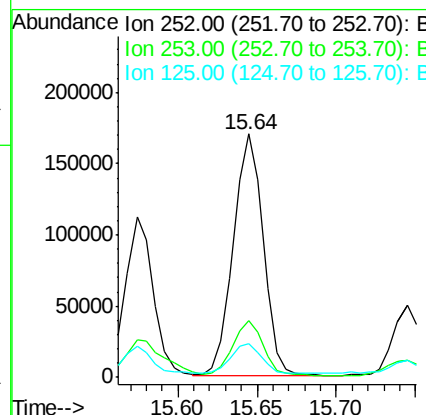
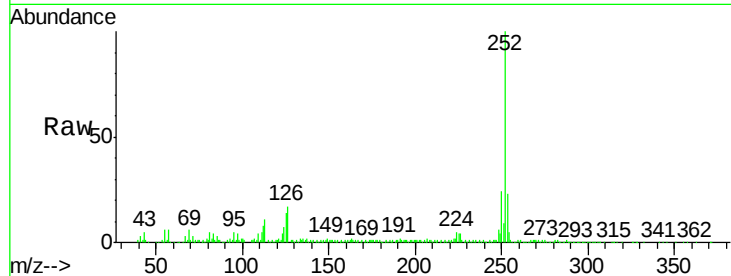
#89
Benzo(a)pyrene
Concen: 14.695 ng
RT: 15.64 min Scan# 2305
Delta R.T. -0.00 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCA

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	13.7	9.8	14.6

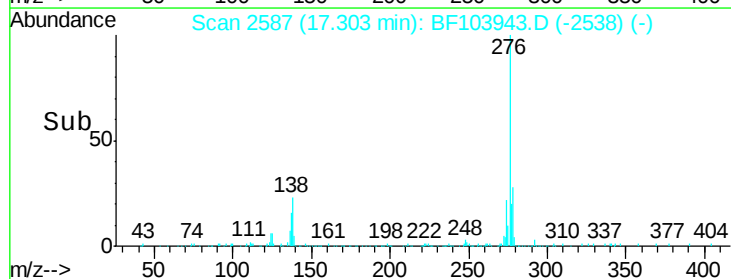
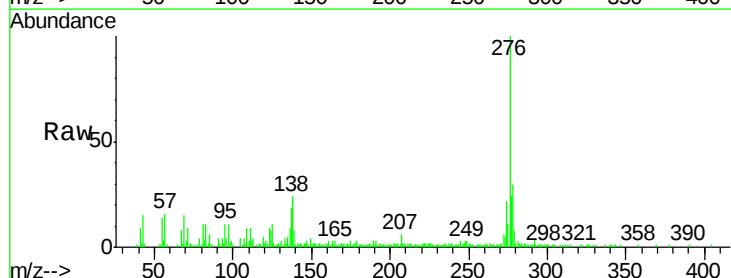
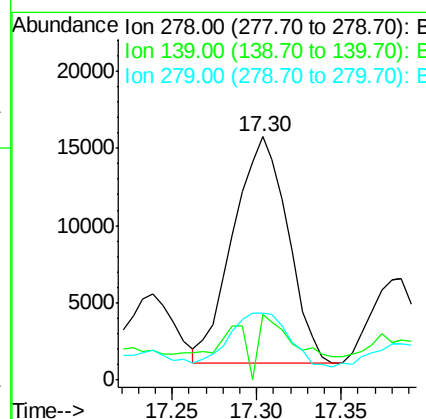
Manual Integrations
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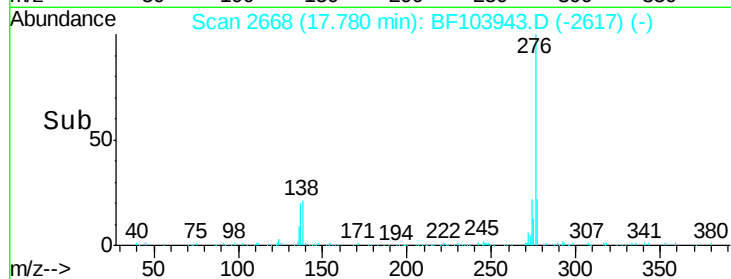
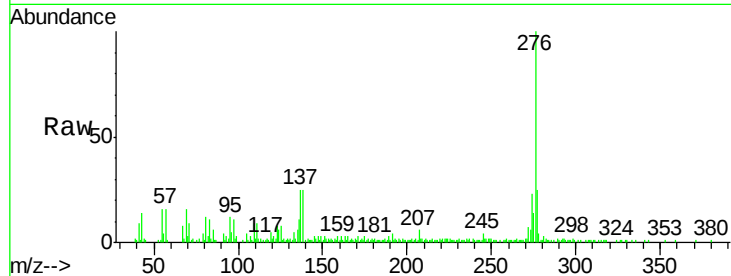
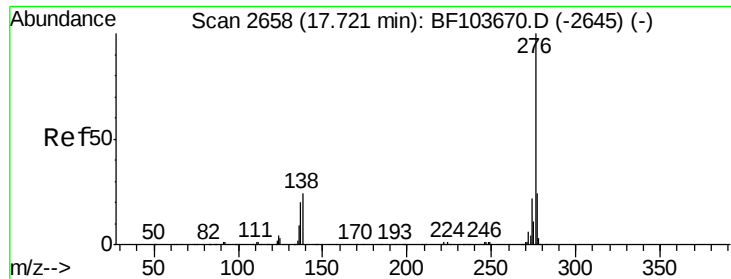
Sohil
3/27/2018 2:15:53 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.482 ng
RT: 17.30 min Scan# 2587
Delta R.T. -0.01 min
Lab File: BF103943.D
Acq: 26 Mar 2018 23:25

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.0	15.9	23.9#
279	27.6	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 8.499 ng
 RT: 17.78 min Scan# 2668
 Delta R.T. -0.00 min
 Lab File: BF103943.D
 Acq: 26 Mar 2018 23:25

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCA

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.5	17.9	26.9
138	25.2	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 3/27/2018 2:15:53 PM

