

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
 Data File : BF109659.D
 Acq On : 8 Oct 2018 20:33
 Operator : JU/SJ
 Sample : J5305-02 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOIL

Manual Integrations
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 10/9/2018 2:57:38 PM

Quant Time: Oct 09 06:47:58 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 08 16:02:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	93571	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	366035	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	141566	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	231612	20.00	ng	0.00
75) Chrysene-d12	13.84	240	185395	20.00	ng	0.01
86) Perylene-d12	15.23	264	196707	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	213475	40.50	ng	0.00
7) Phenol-d6	6.35	99	331569	47.08	ng	-0.01
23) Nitrobenzene-d5	7.26	82	202557	30.50	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	54432	35.29	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	306889	29.86	ng	0.00
78) Terphenyl-d14	12.79	244	226356	23.64	ng	0.00
Target Compounds						
48) Acenaphthylene	9.59	152	145076	10.503	ng	Qvalue 100
51) Acenaphthene	9.76	154	819488	100.079	ng	99
54) Dibenzofuran	9.93	168	161976	13.196	ng	# 96
57) Fluorene	10.27	166	386761	42.194	ng	99
69) Pentachlorophenol	11.02	266	98957	61.026	ng	96
70) Phenanthrene	11.23	178	1505239	129.865	ng	98
71) Anthracene	11.28	178	365676	30.520	ng	99
72) Carbazole	11.45	167	34699	2.986	ng	# 84
74) Fluoranthene	12.46	202	6957039	574.549	ng	96
77) Pyrene	12.68	202	4664757	343.420	ng	95
80) Benzo(a)anthracene	13.84	228	1696502	165.822	ng	97
82) Chrysene	13.87	228	1454388	135.338	ng	96
83) Bis(2-ethylhexyl)phthalate	13.82	149	33263	4.630	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.58	276	185884	24.166	ng	95
87) Benzo(b)fluoranthene	14.85	252	1017948m	93.644	ng	
88) Benzo(k)fluoranthene	14.87	252	342169m	31.328	ng	
89) Benzo(a)pyrene	15.18	252	401501	40.701	ng	98
90) Dibenzo(a,h)anthracene	16.58	278	57452m	7.091	ng	
91) Benzo(a,h,i)perylene	16.98	276	142260	17.584	ng	99

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

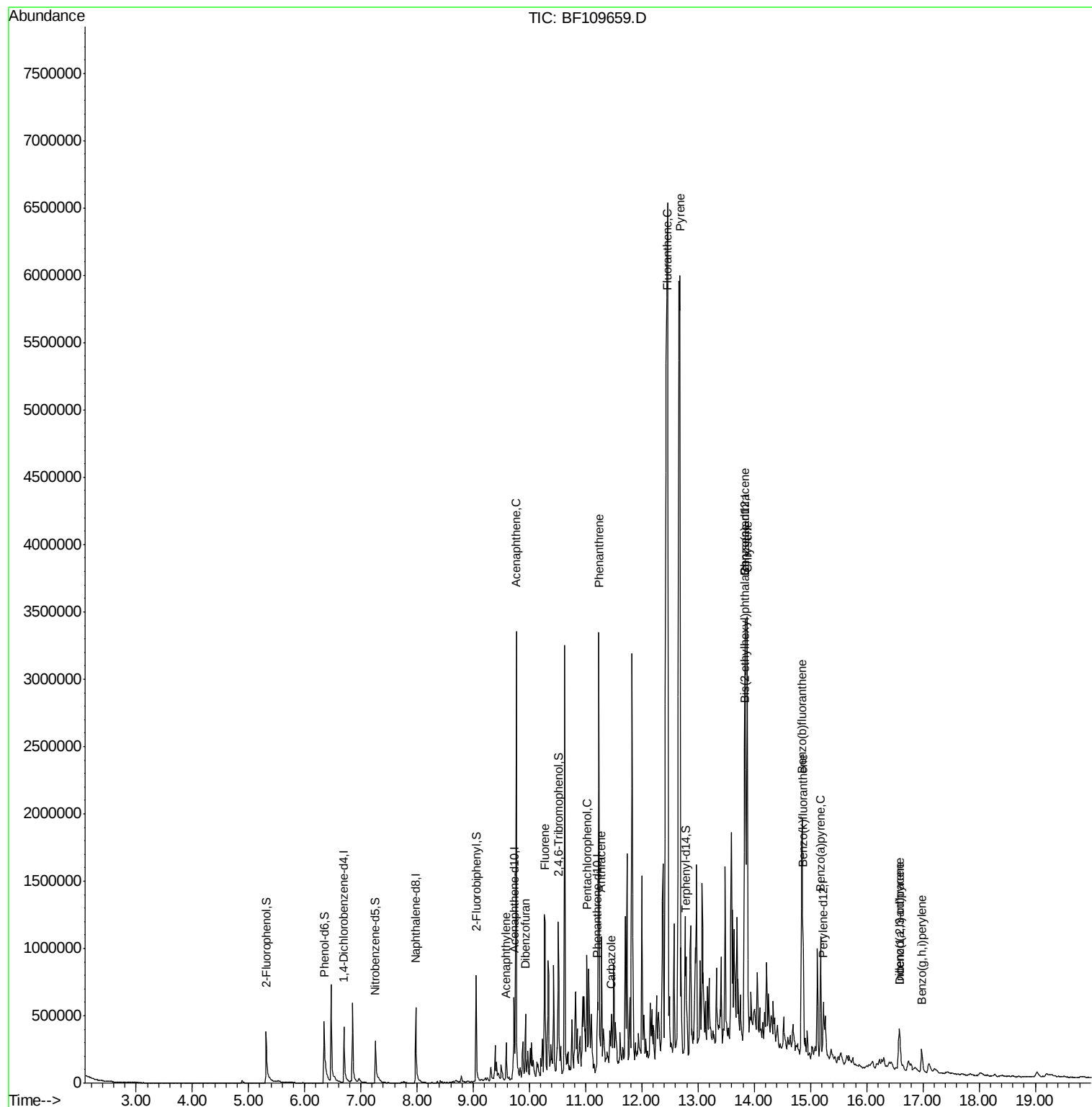
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109659.D
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ALS Vial : 10 Sample Multiplier: 1

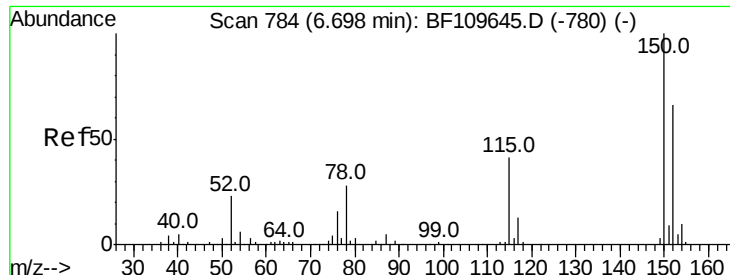
Instrument :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF100818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

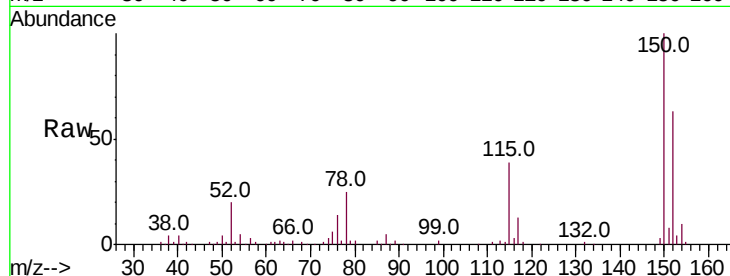
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOIL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.4	122.7	184.1
115	62.1	49.1	73.7

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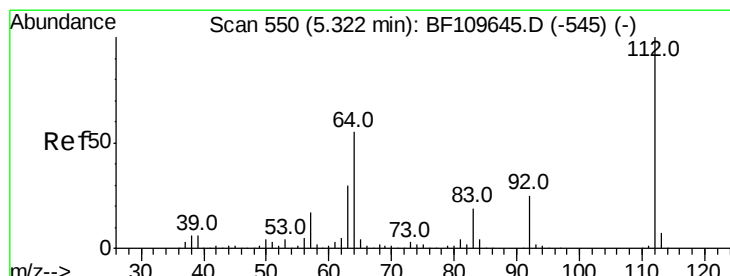
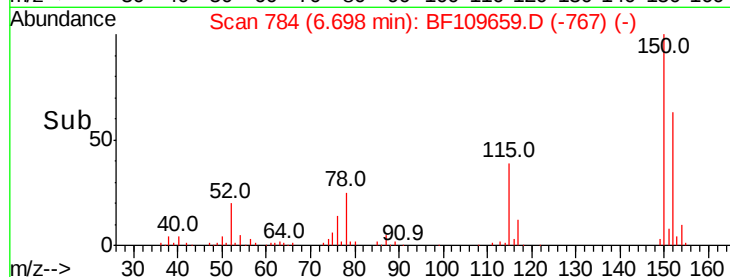
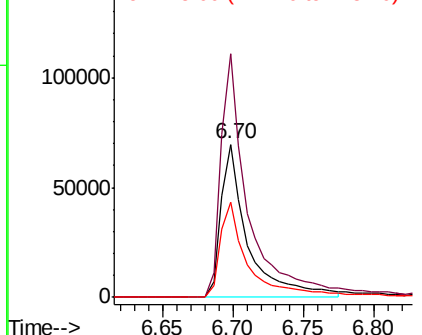


Abundance

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: 40.496 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

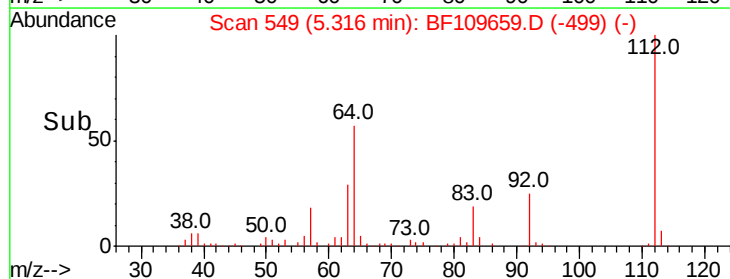
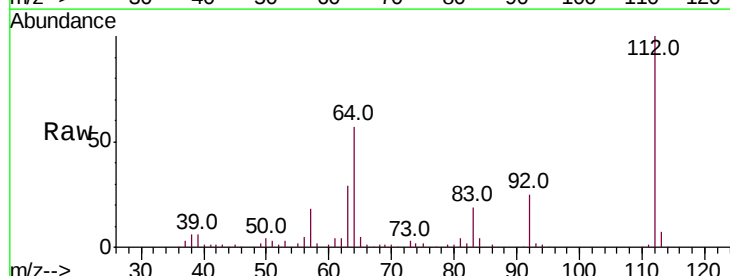
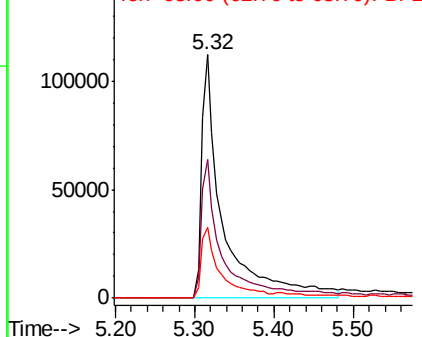
Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.7	44.1	66.1
63	28.9	23.7	35.5

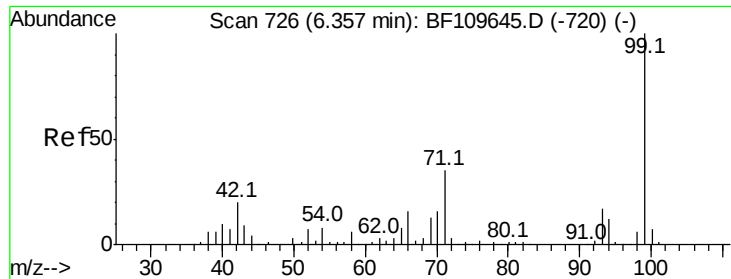
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 47.084 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

Instrument :

BNA_F

ClientSampleId :

331-SAND-SOIL

Tot Ion: 99 Resp: 331569

Ion Ratio Lower Upper

99 100

42 18.8 15.8 23.6

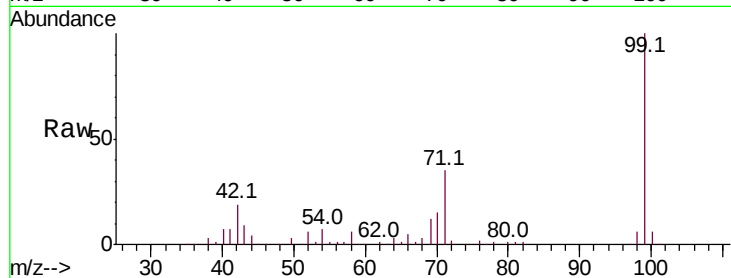
71 34.7 28.0 42.0

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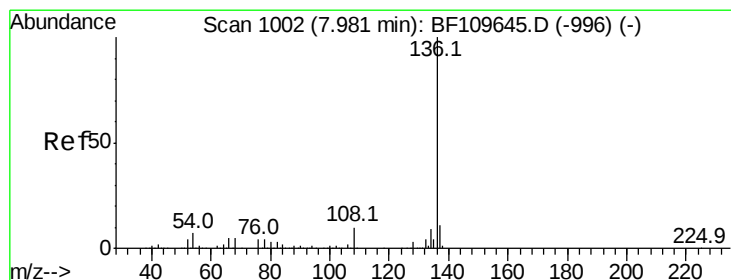
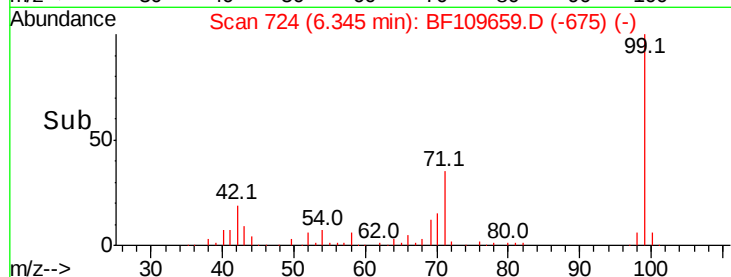
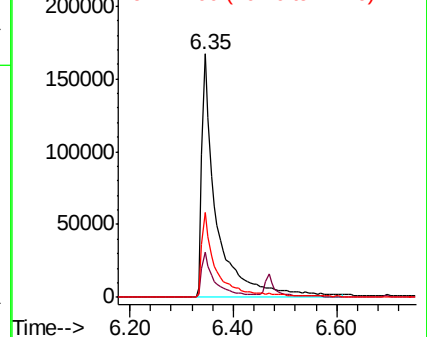
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

Tgt Ion: 136 Resp: 366035

Ion Ratio Lower Upper

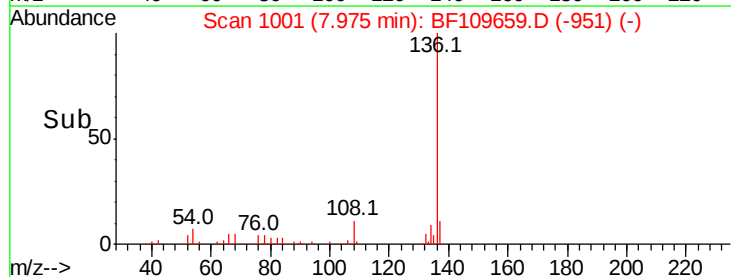
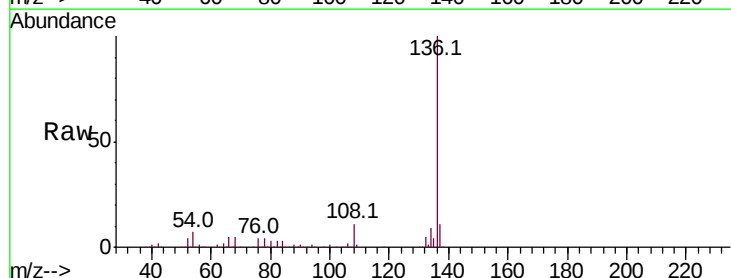
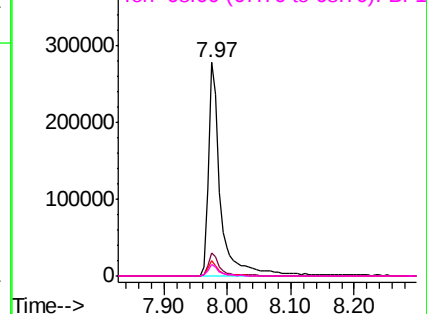
136 100

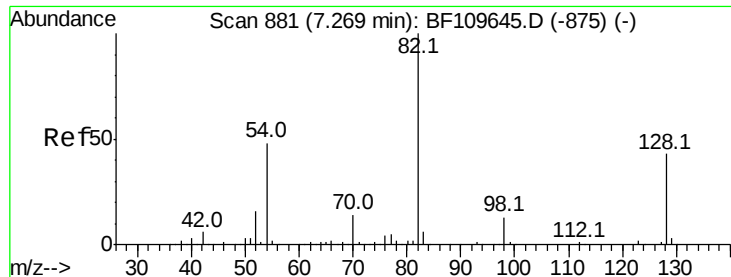
137 10.8 8.8 13.2

54 7.0 5.4 8.2

68 5.5 4.2 6.2

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





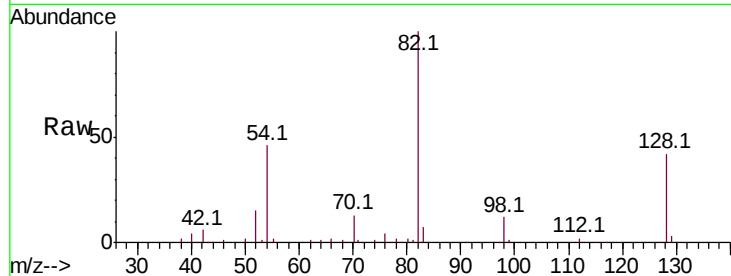
#23
Nitrobenzene-d5
Concen: 30.504 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOIL

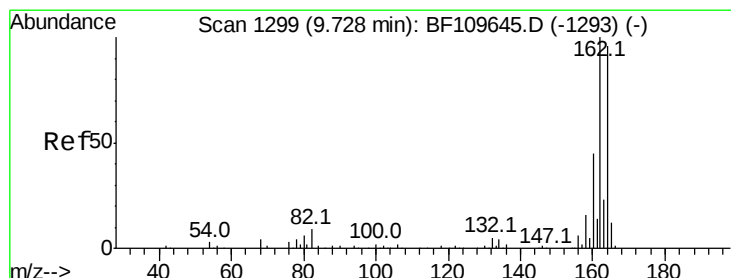
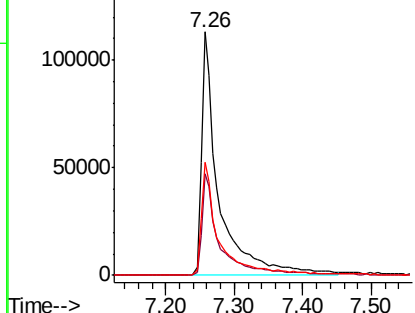
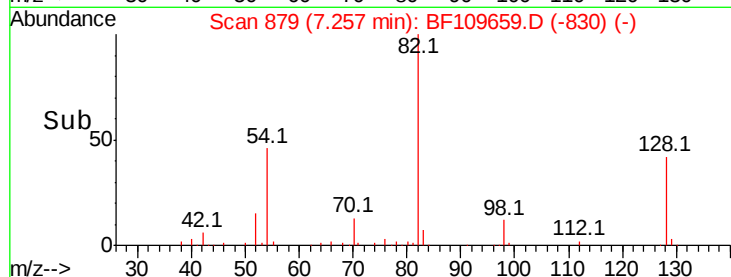
Tot Ion	Ratio	Lower	Upper
82	100		
128	41.8	34.2	51.2
54	46.5	38.6	58.0

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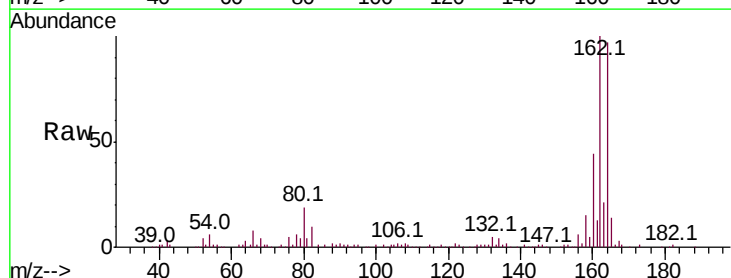


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

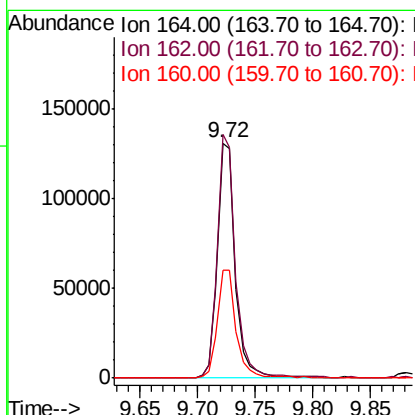
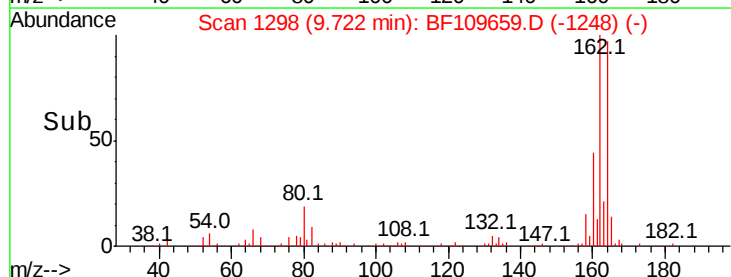


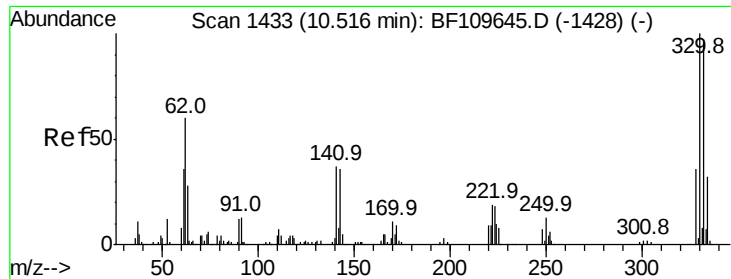
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	83.0	124.6
160	46.0	37.0	55.6



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





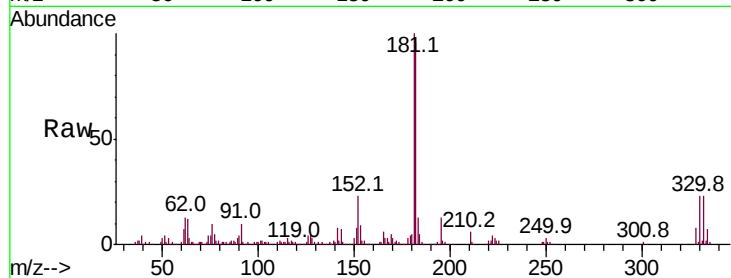
#41
 2,4,6-Tribromophenol
 Concen: 35.288 ng
 RT: 10.52 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOIL

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.4	77.1	115.7
141	40.9	27.0	40.4

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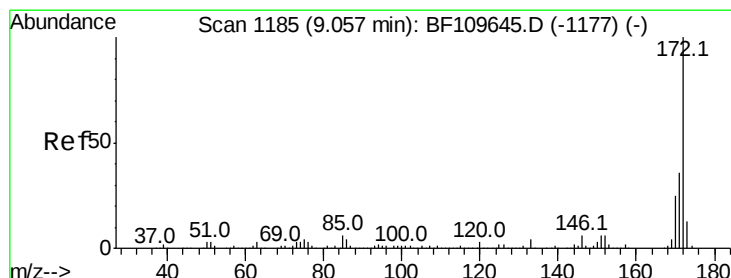
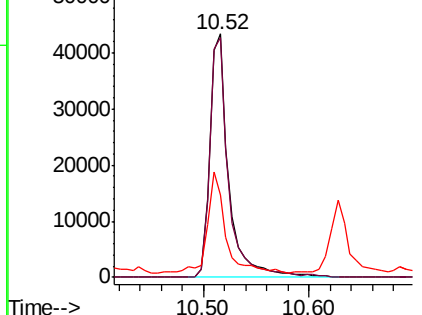
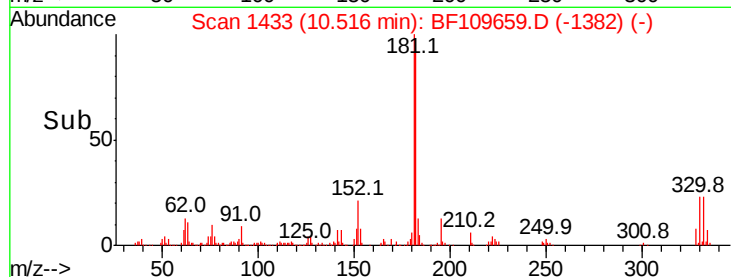


Abundance

Ion 329.80 (329.50 to 330.50): E

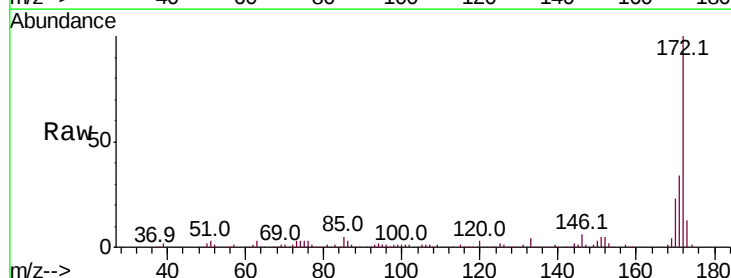
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 29.856 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	28.6	43.0
170	23.4	19.7	29.5

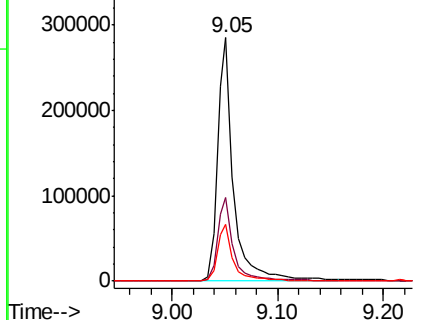
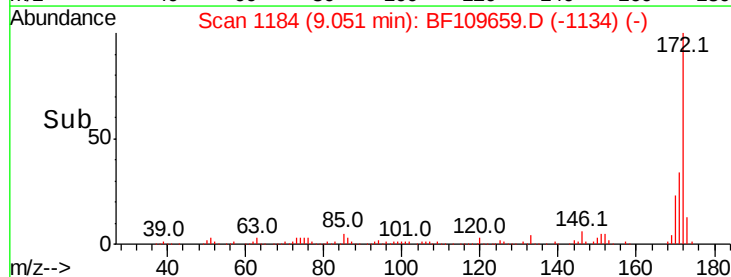


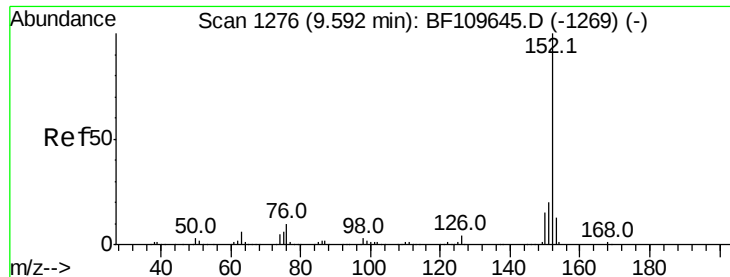
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 10.503 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.01 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

Instrument :

BNA_F

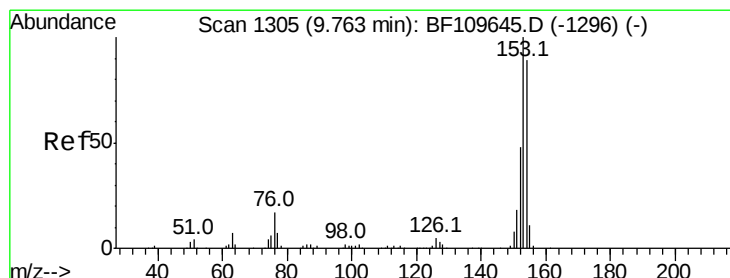
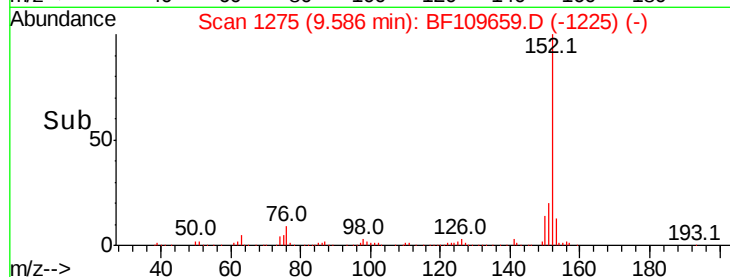
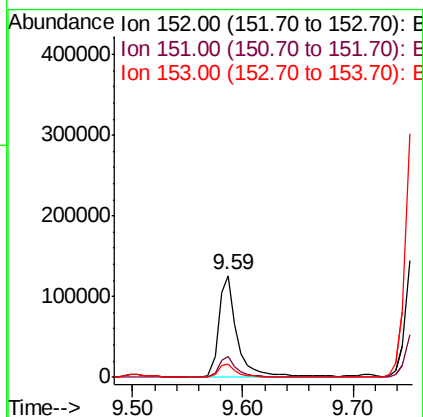
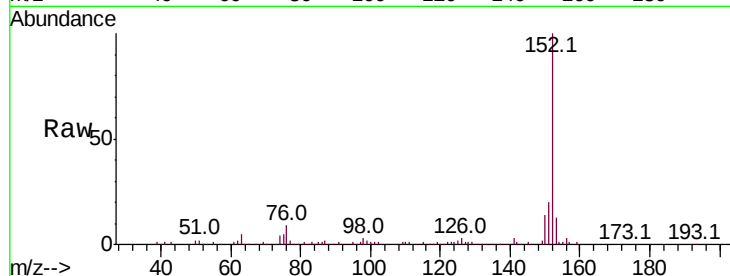
ClientSampleId :

331-SAND-SOIL

Tot Ion:	152	Resp:	145076
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.8	23.8
153	12.9	10.4	15.6

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#51

Acenaphthene

Concen: 100.079 ng

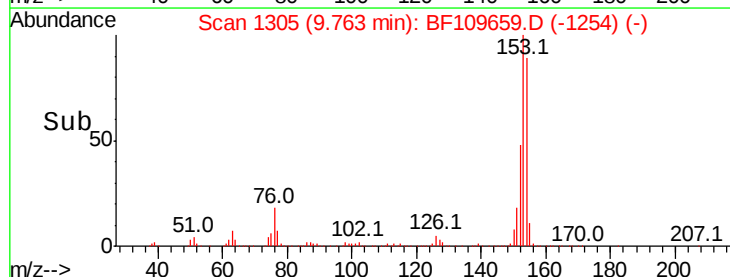
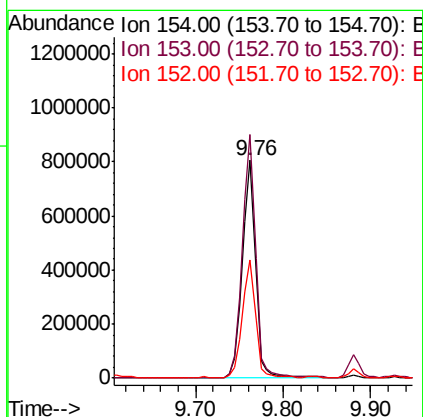
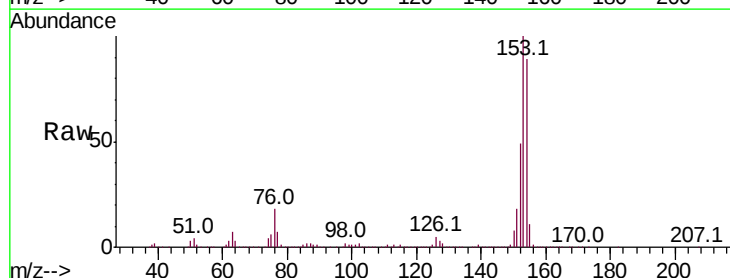
RT: 9.76 min Scan# 1305

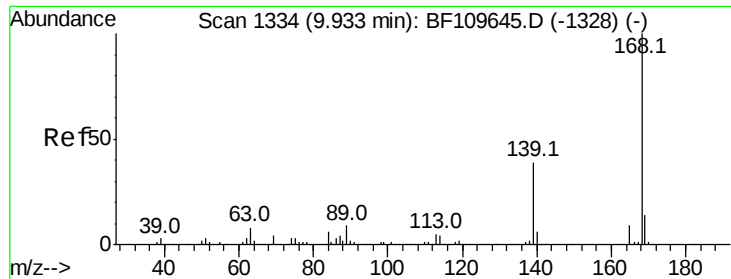
Delta R.T. -0.00 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

Tgt Ion:	154	Resp:	819488
Ion Ratio	Lower	Upper	
154	100		
153	111.7	90.1	135.1
152	54.2	43.4	65.2





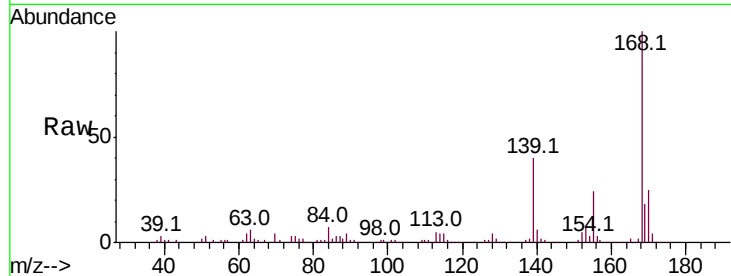
#54
Dibenzofuran
Concen: 13.196 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.01 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
168	100	161976		
139	40.5		33.0	49.6
169	18.4		11.3	16.9#

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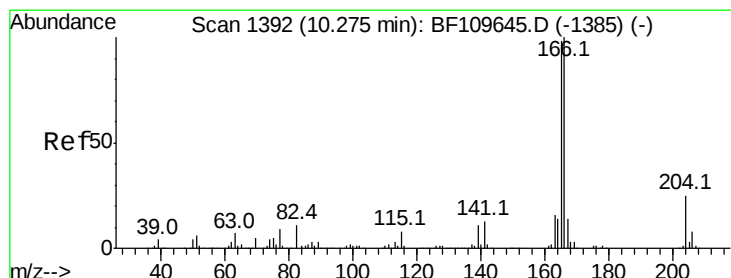
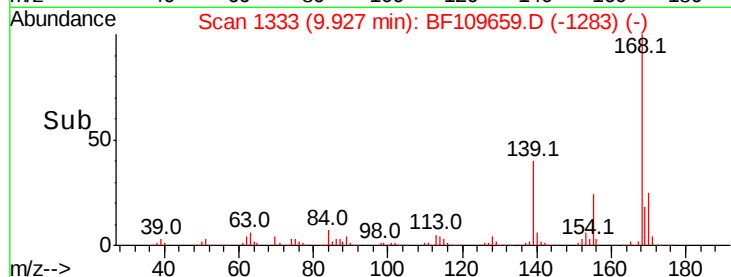
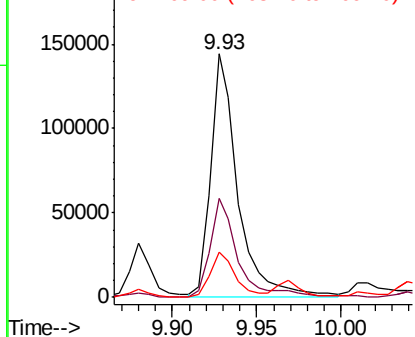


Abundance

Ion 168.00 (167.70 to 168.70): E

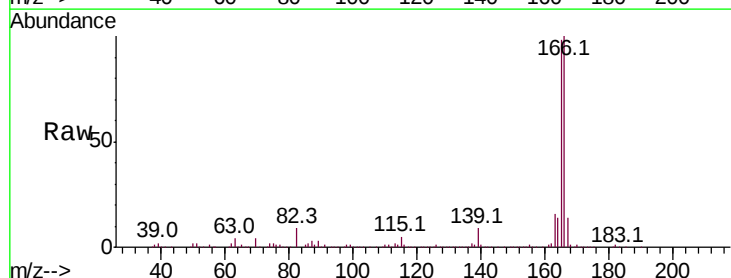
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57
Fluorene
Concen: 42.194 ng
RT: 10.27 min Scan# 1392
Delta R.T. -0.00 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	386761		
165	97.9		78.6	117.8
167	14.3		10.8	16.2

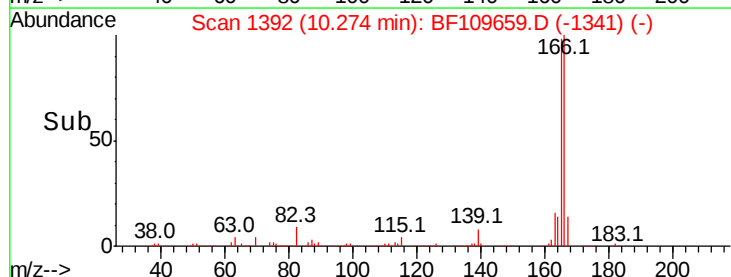
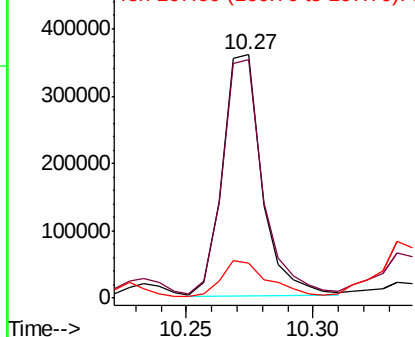


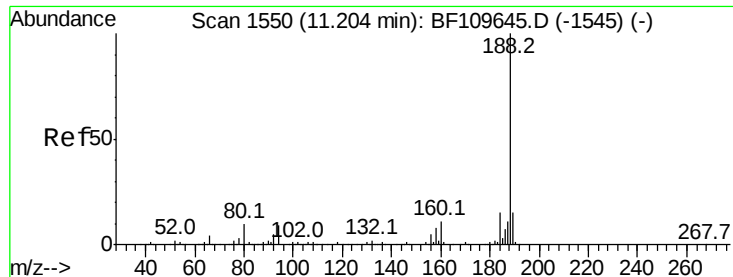
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





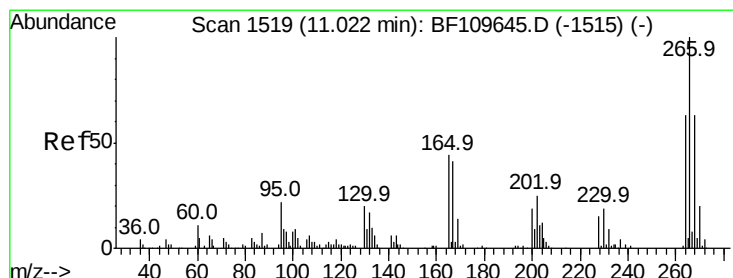
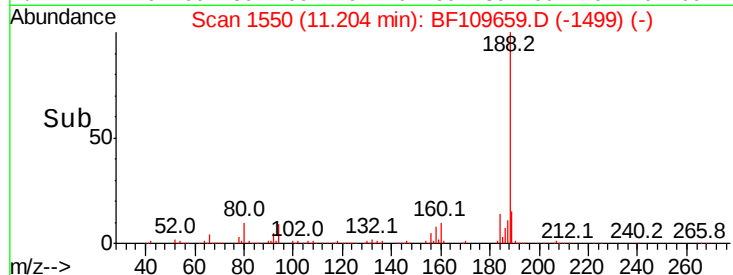
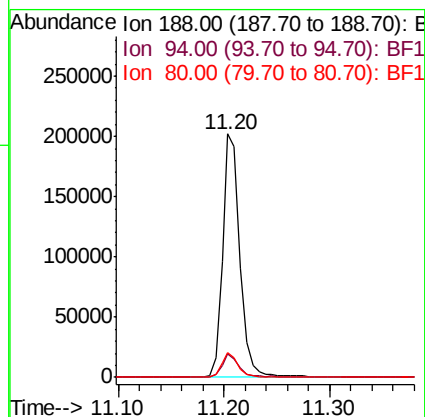
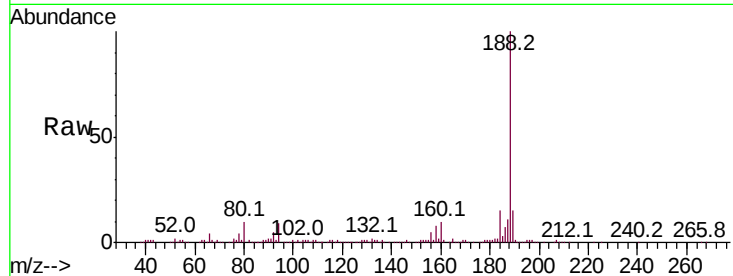
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1550
Delta R.T. -0.00 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	231612		
94	9.5	7.2	10.8	
80	10.1	7.9	11.9	

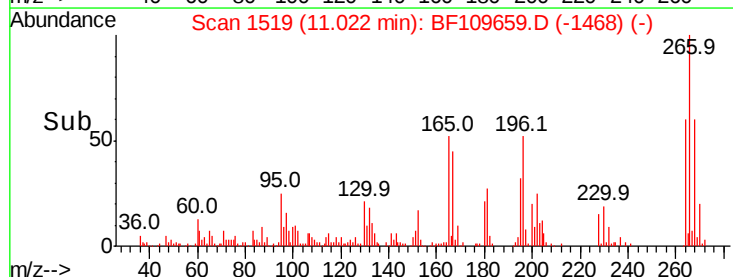
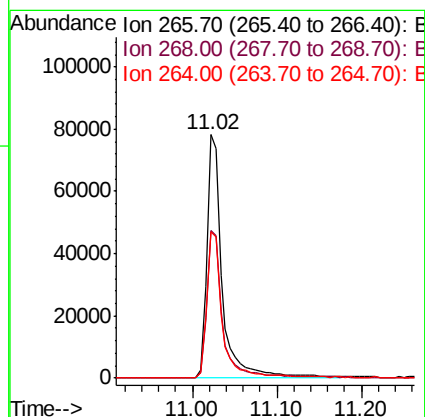
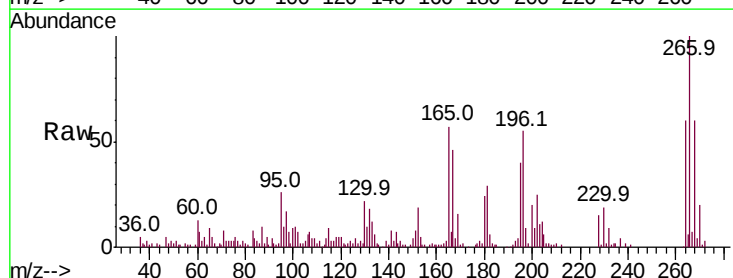
Manual Integrations
APPROVED

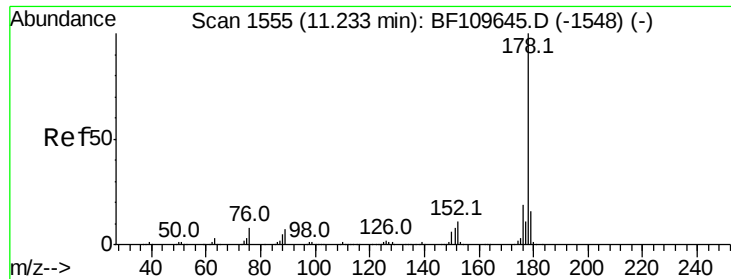
Sohil
10/9/2018 2:57:38 PM



#69
Pentachlorophenol
Concen: 61.026 ng
RT: 11.02 min Scan# 1519
Delta R.T. -0.00 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	98957		
268	60.4	50.6	75.8	
264	60.1	50.6	75.8	





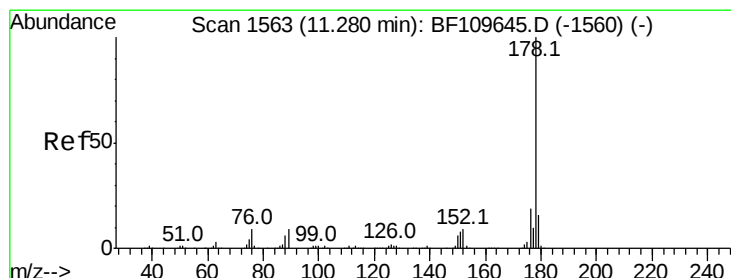
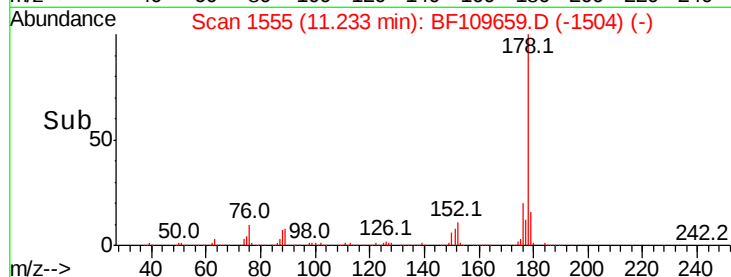
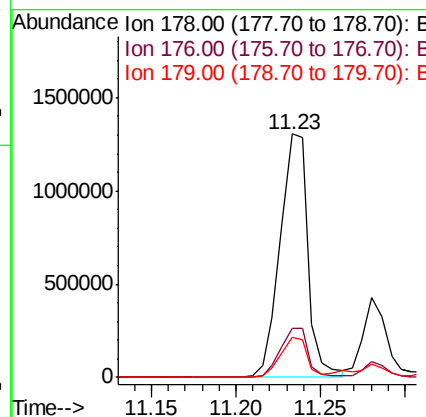
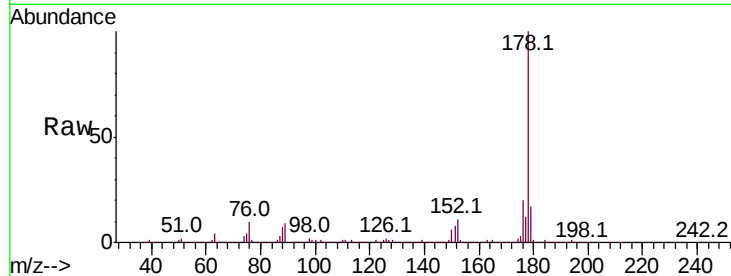
#70
Phenanthrene
Concen: 129.865 ng
RT: 11.23 min Scan# 1555
Delta R.T. -0.00 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOIL

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.5	23.3
179	16.6	12.5	18.7

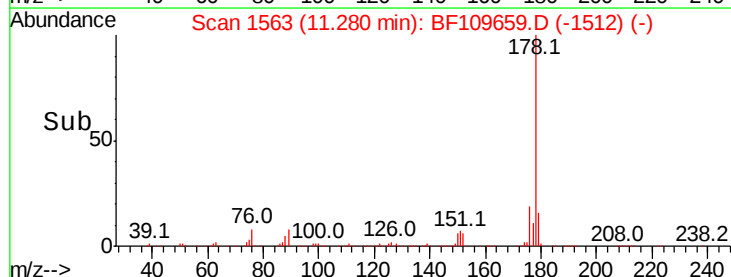
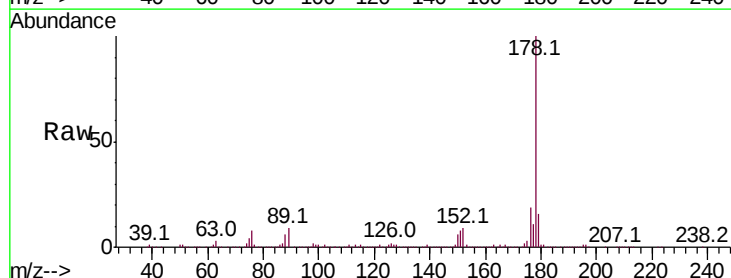
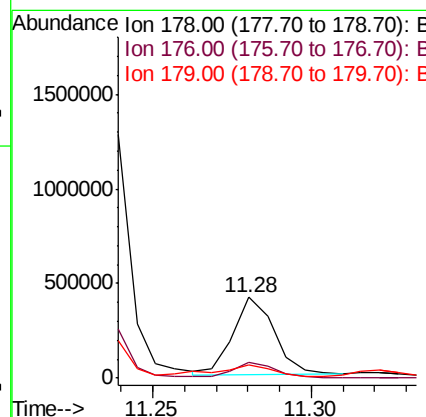
Manual Integrations
APPROVED

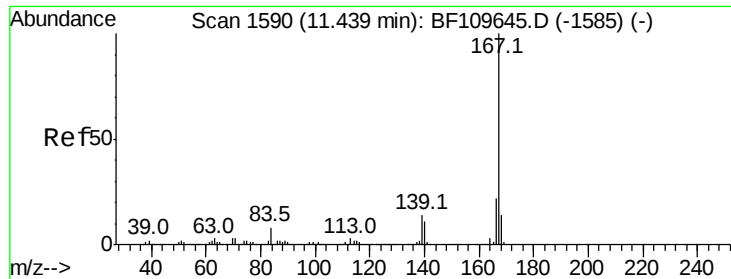
Sohil
10/9/2018 2:57:38 PM



#71
Anthracene
Concen: 30.520 ng
RT: 11.28 min Scan# 1563
Delta R.T. -0.00 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	16.3	12.6	18.8





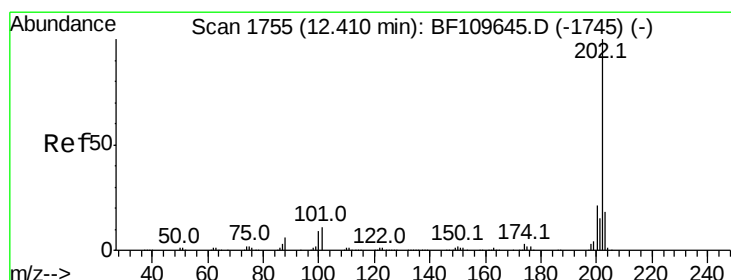
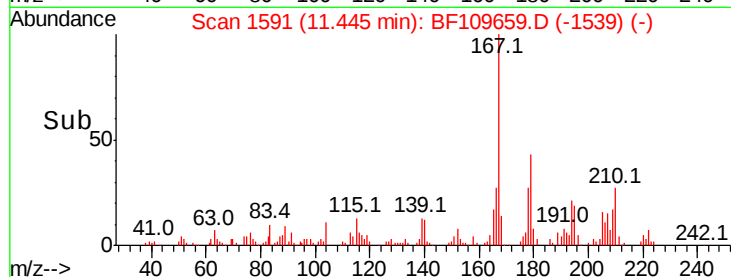
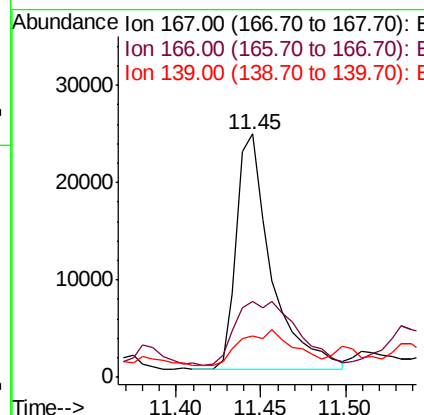
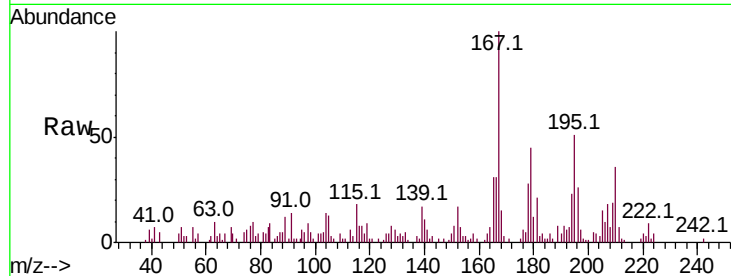
#72
 Carbazole
 Concen: 2.986 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOIL

Tot Ion	Ratio	Lower	Upper
167	100		
166	31.3	17.4	26.0#
139	17.1	10.9	16.3#

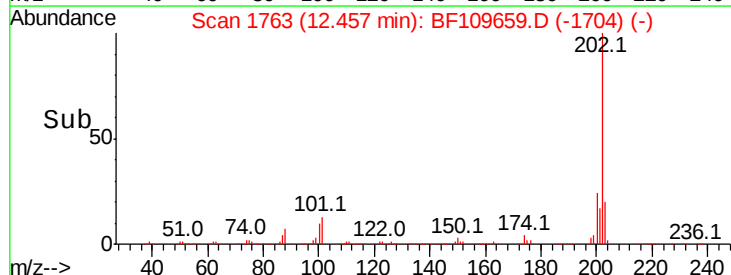
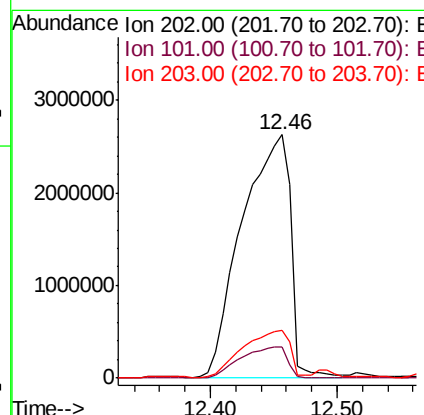
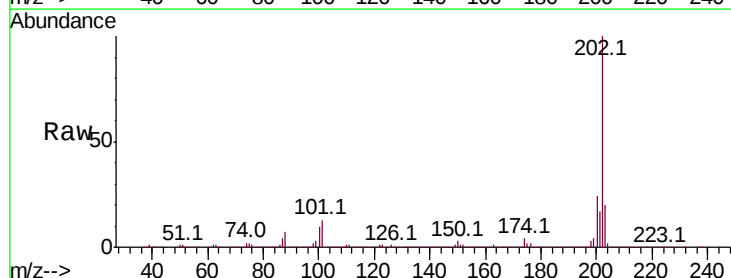
Manual Integrations
 APPROVED

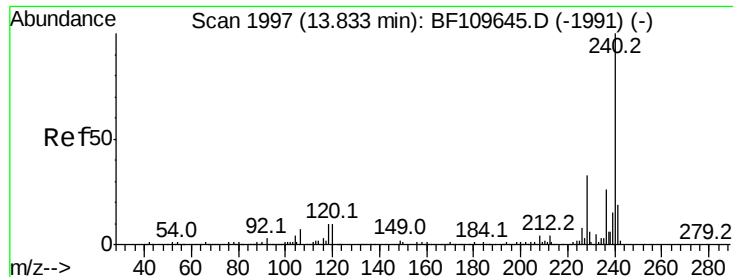
Sohil
 10/9/2018 2:57:38 PM



#74
 Fluoranthene
 Concen: 574.549 ng
 RT: 12.46 min Scan# 1763
 Delta R.T. 0.05 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	31.4
203	19.7	0.0	37.7





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1999

Delta R.T. 0.01 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

Instrument :

BNA_F

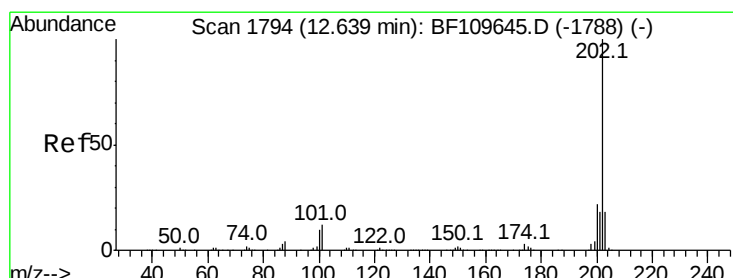
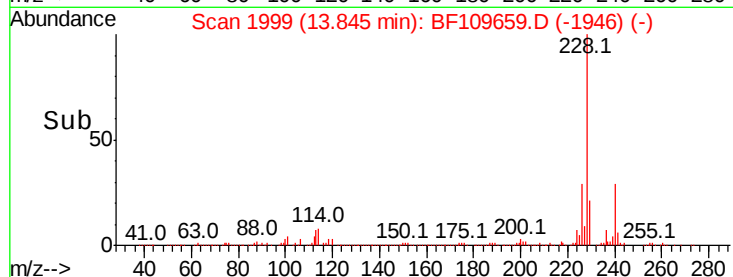
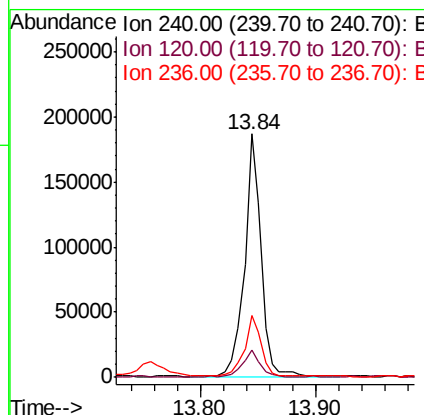
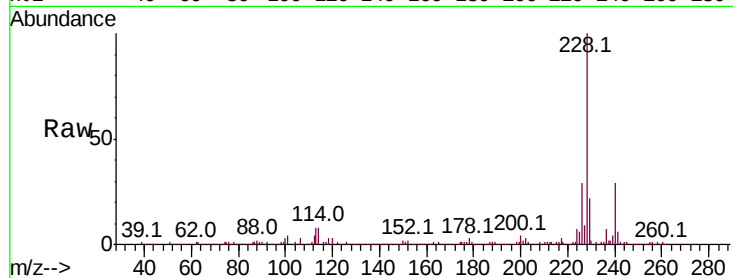
ClientSampleId :

331-SAND-SOIL

Tot Ion:	240	Resp:	185395
Ion Ratio	Lower	Upper	
240	100		
120	11.1	8.3	12.5
236	25.4	21.2	31.8

Manual Integrations
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#77

Pyrene

Concen: 343.420 ng

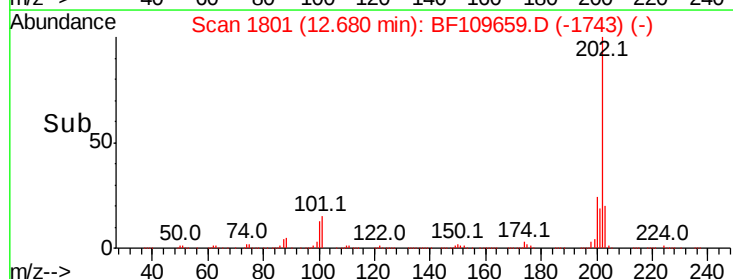
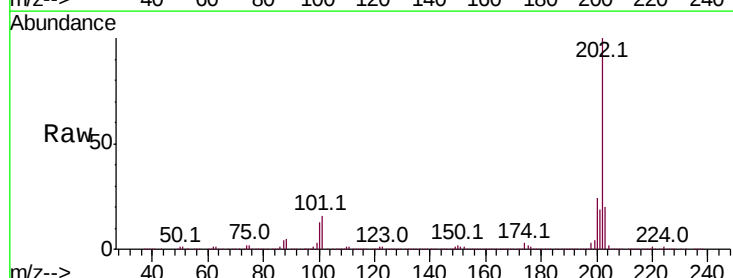
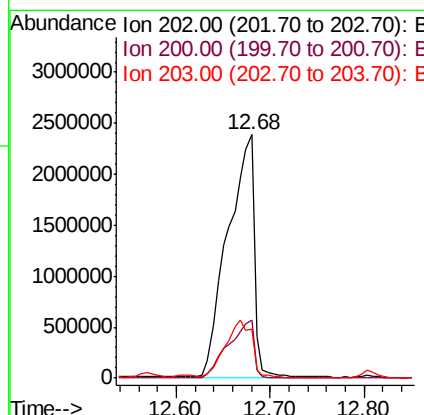
RT: 12.68 min Scan# 1801

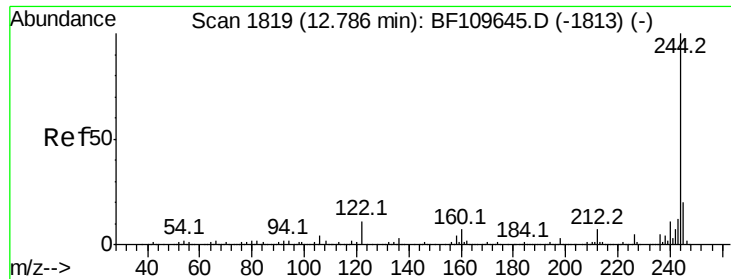
Delta R.T. 0.04 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

Tgt Ion:	202	Resp:	4664757
Ion Ratio	Lower	Upper	
202	100		
200	24.1	17.8	26.6
203	20.1	14.2	21.4





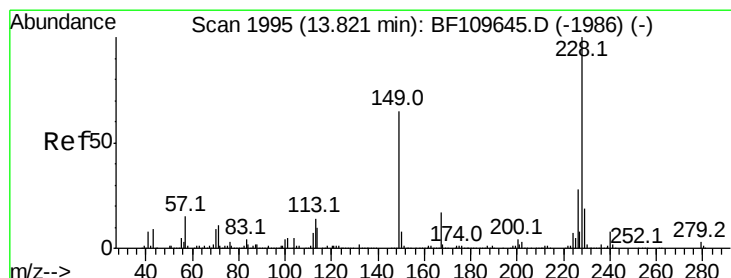
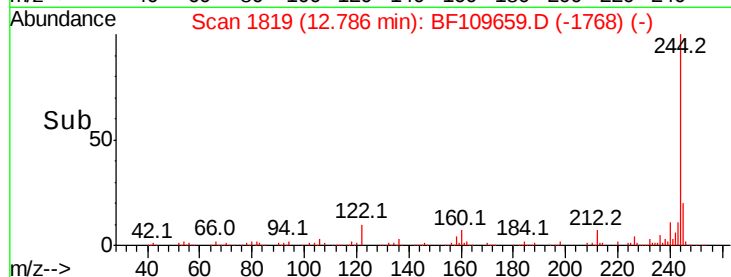
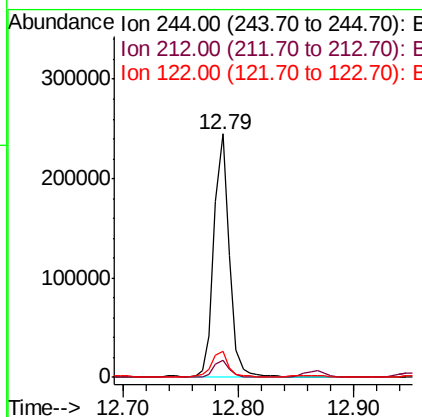
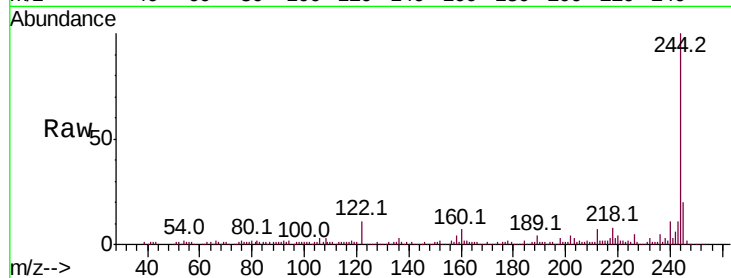
#78
 Terphenyl-d14
 Concen: 23.635 ng
 RT: 12.79 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOIL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.8
122	10.7	8.7	13.1

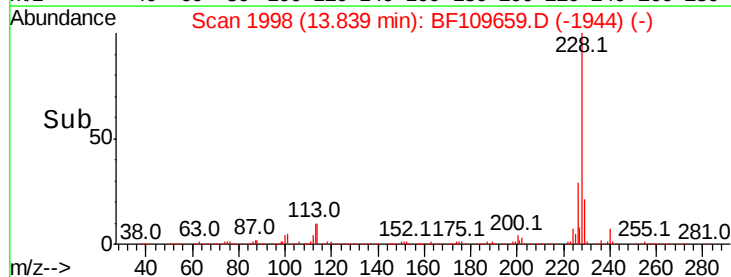
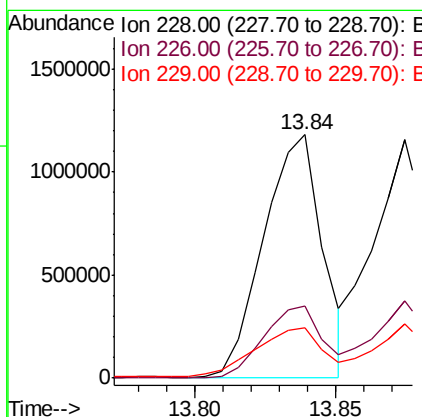
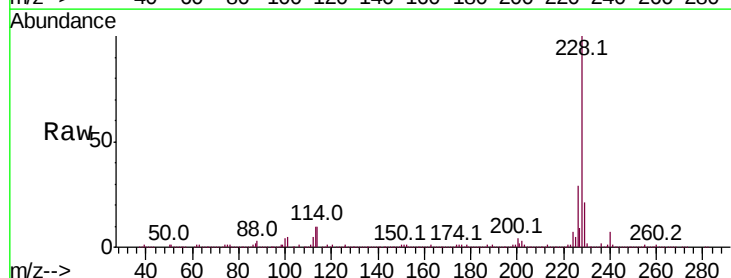
Manual Integrations
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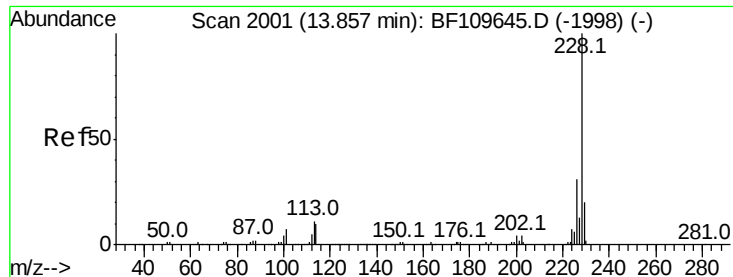
Sohil
 10/9/2018 2:57:38 PM



#80
 Benzo(a)anthracene
 Concen: 165.822 ng
 RT: 13.84 min Scan# 1998
 Delta R.T. 0.02 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.1	33.1
229	20.9	15.6	23.4





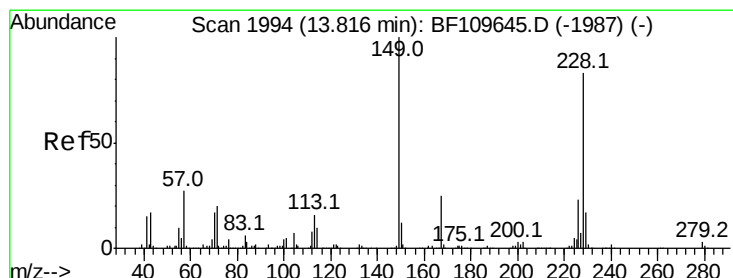
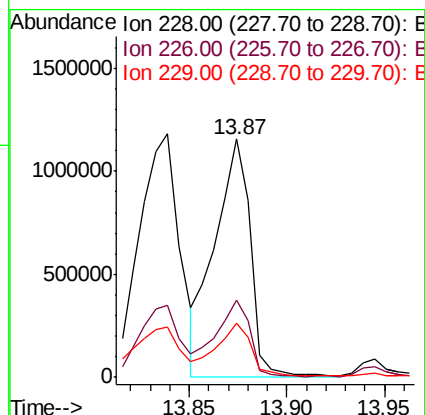
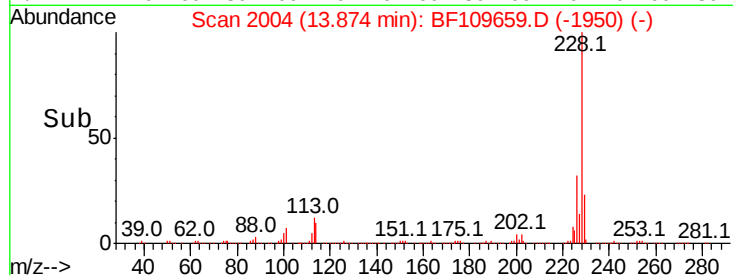
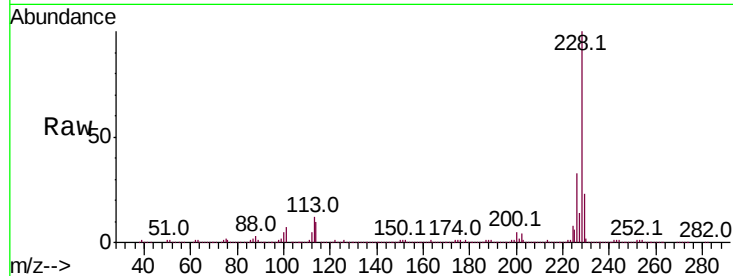
#82
Chrysene
Concen: 135.338 ng
RT: 13.87 min Scan# 2004
Delta R.T. 0.02 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOIL

Tot Ion:228 Resp: 1454388
Ion Ratio Lower Upper
228 100
226 32.5 24.7 37.1
229 22.9 15.9 23.9

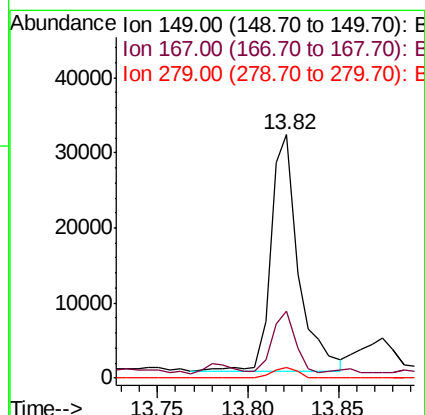
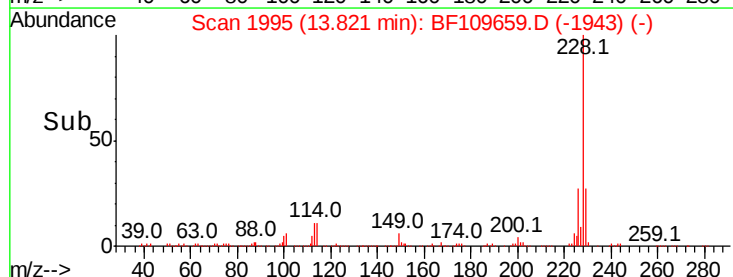
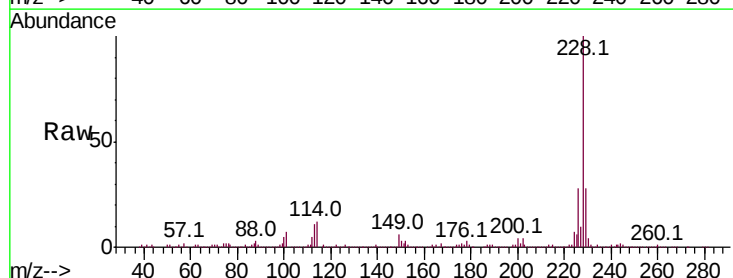
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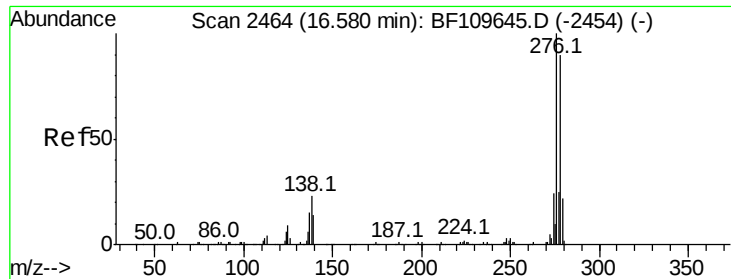
Sohil
10/9/2018 2:57:38 PM



#83
Bis(2-ethylhexyl)phthalate
Concen: 4.630 ng
RT: 13.82 min Scan# 1995
Delta R.T. 0.01 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Tgt Ion:149 Resp: 33263
Ion Ratio Lower Upper
149 100
167 27.7 19.8 29.8
279 4.5 2.7 4.1#





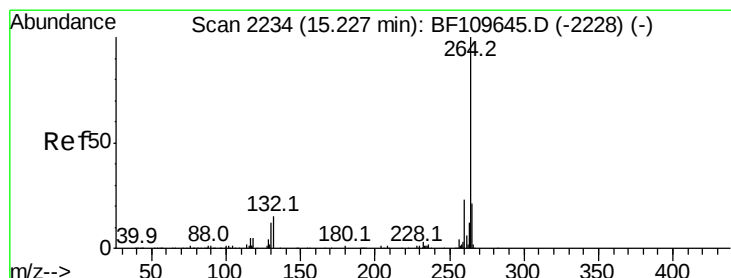
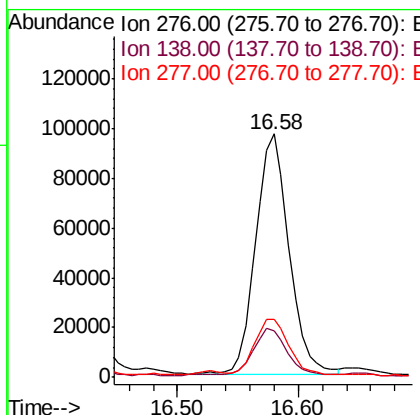
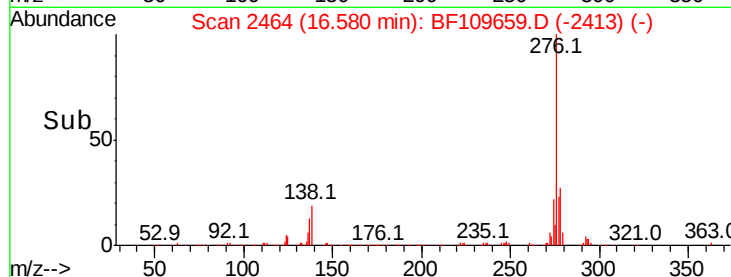
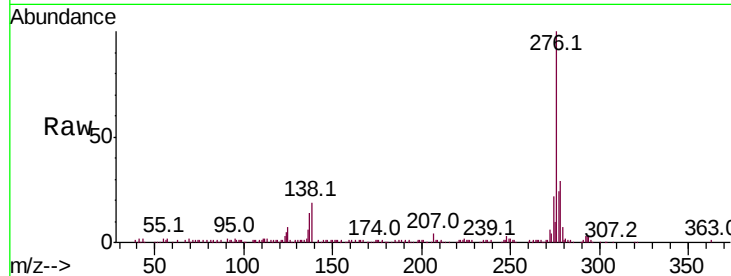
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 24.166 ng
 RT: 16.58 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOIL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.5	18.5	27.7
277	23.3	20.0	30.0

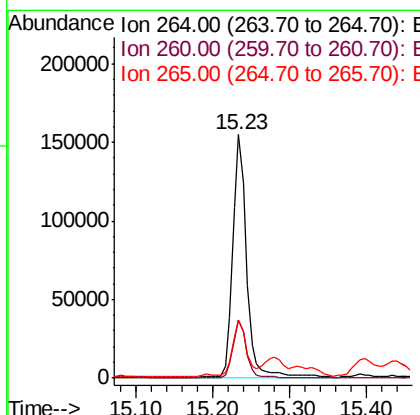
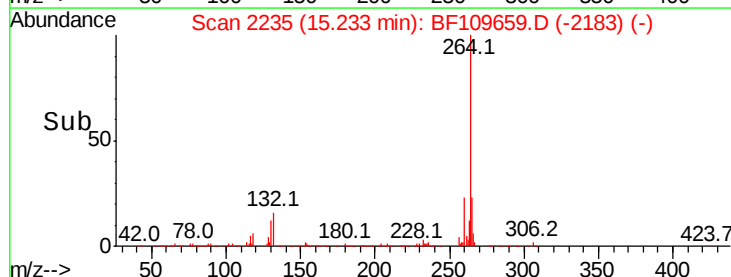
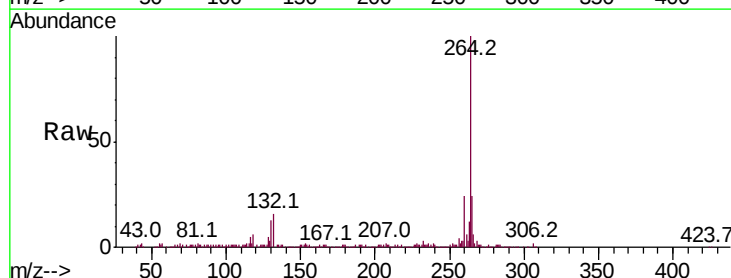
Manual Integrations
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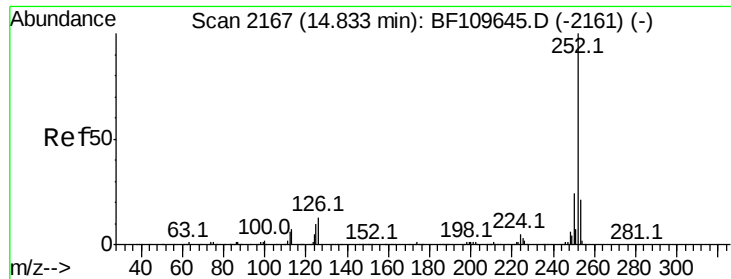
Sohil
 10/9/2018 2:57:38 PM



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.23 min Scan# 2235
 Delta R.T. 0.01 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	24.0	16.7	25.1





#87

Benzo(b)fluoranthene

Concen: 93.644 ng m

RT: 14.85 min Scan# 2170

Delta R.T. 0.02 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

Instrument :

BNA_F

ClientSampleId :

331-SAND-SOIL

Tot Ion:252 Resp: 1017948

Ion Ratio Lower Upper

252 100

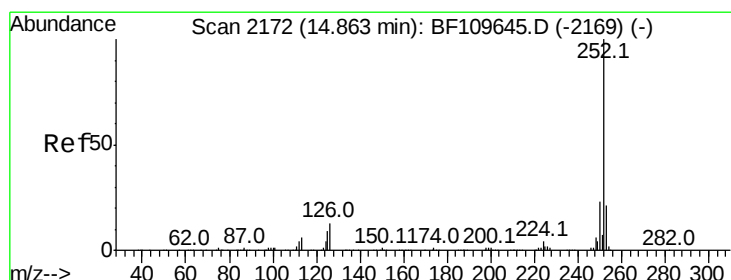
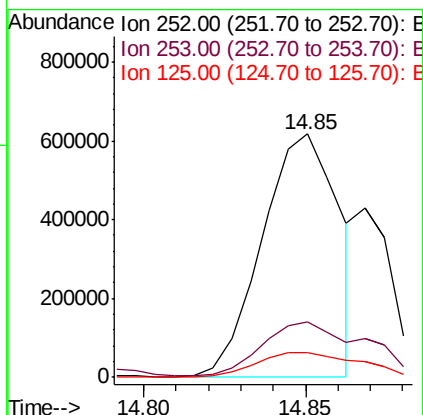
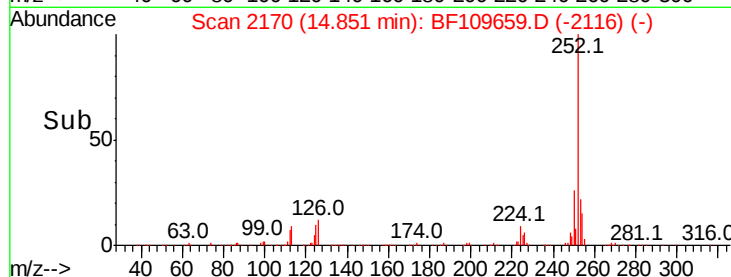
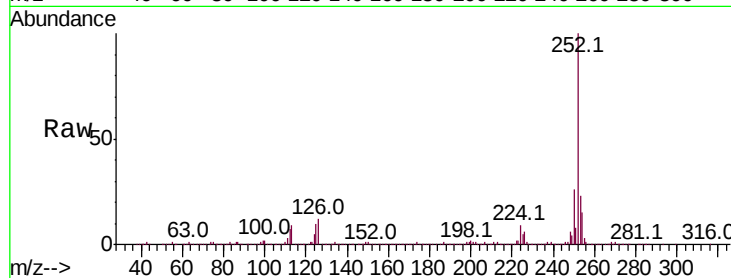
253 22.7 17.2 25.8

125 10.4 8.2 12.4

Manual Integrations
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Sohil

10/9/2018 2:57:38 PM



#88

Benzo(k)fluoranthene

Concen: 31.328 ng m

RT: 14.87 min Scan# 2173

Delta R.T. 0.01 min

Lab File: BF109659.D

Acq: 8 Oct 2018 20:33

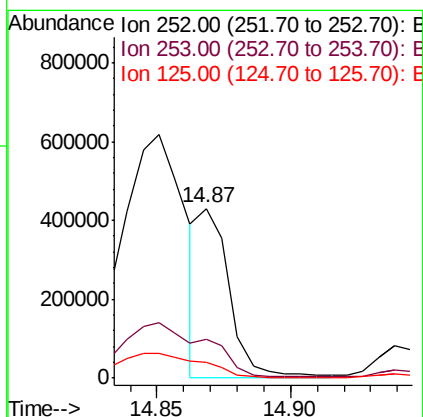
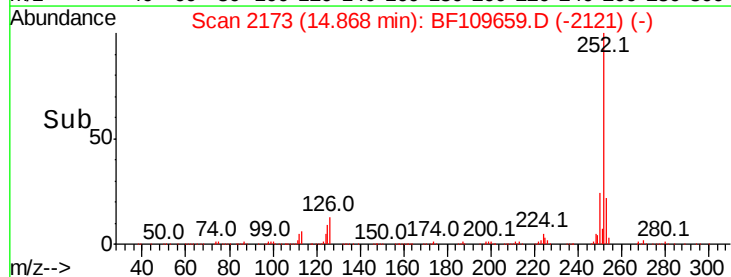
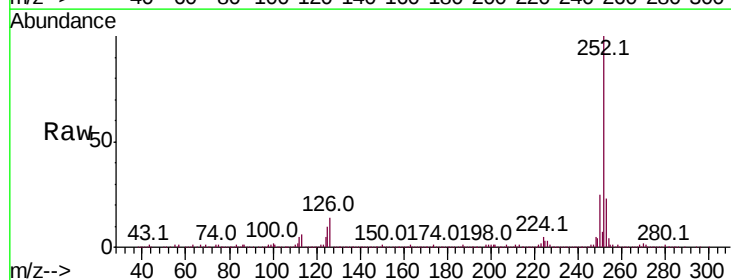
Tgt Ion:252 Resp: 342169

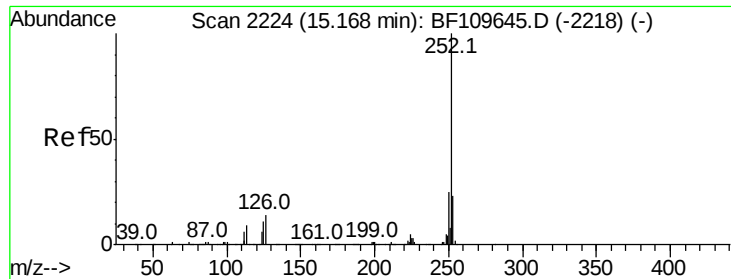
Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

125 9.7 7.4 11.0





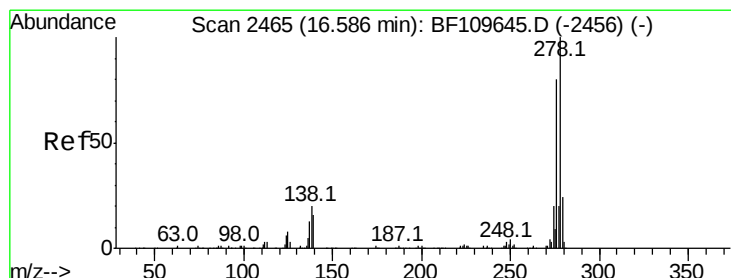
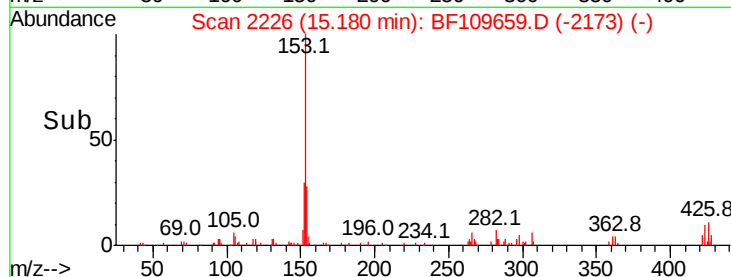
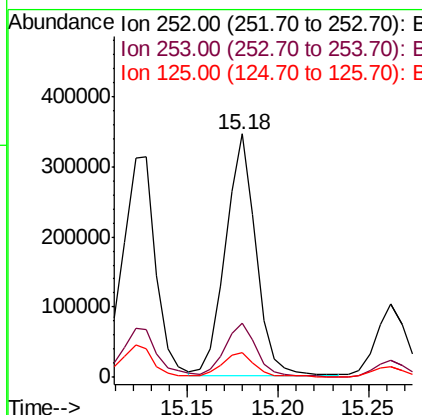
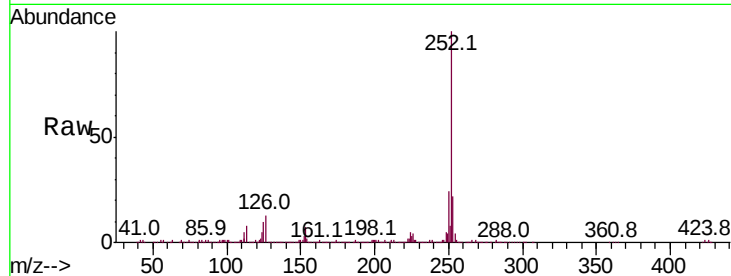
#89
Benzo(a)pyrene
Concen: 40.701 ng
RT: 15.18 min Scan# 2226
Delta R.T. 0.01 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOIL

Tot Ion	Ratio	Resp	Lower	Upper
252	100			
253	22.0	18.2	27.4	
125	10.3	9.0	13.6	

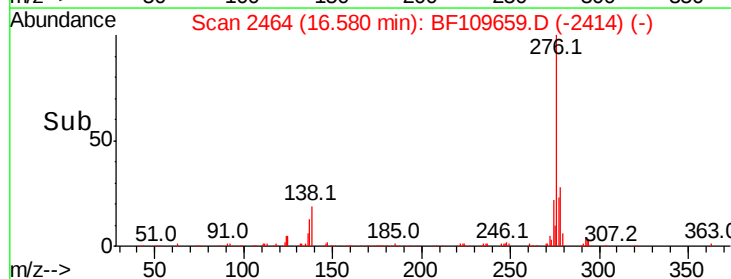
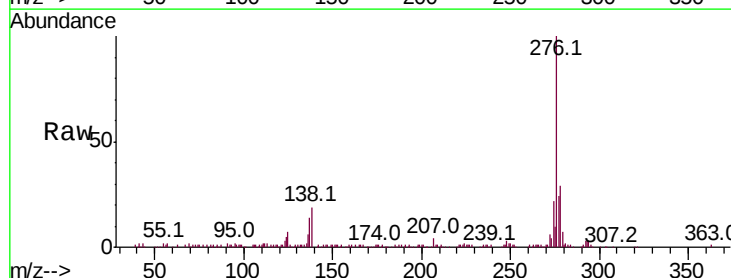
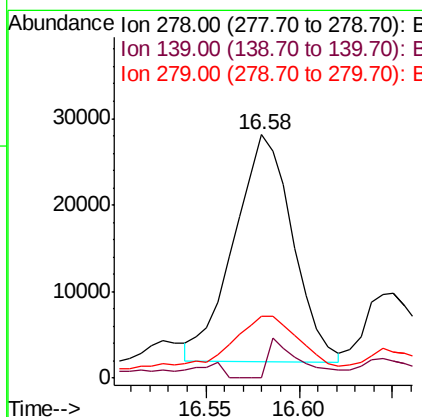
Manual Integrations
APPROVED

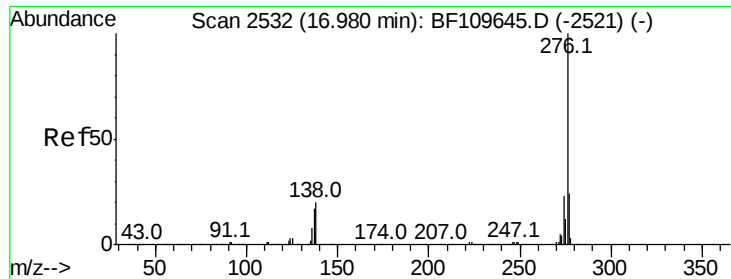
Sohil
10/9/2018 2:57:38 PM



#90
Dibenzo(a,h)anthracene
Concen: 7.091 ng m
RT: 16.58 min Scan# 2464
Delta R.T. -0.01 min
Lab File: BF109659.D
Acq: 8 Oct 2018 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
278	100			
139	0.0	12.7	19.1#	
279	25.4	19.0	28.4	





#91
 Benzo(a,h,i)perylene
 Concen: 17.584 ng
 RT: 16.98 min Scan# 2532
 Delta R.T. -0.00 min
 Lab File: BF109659.D
 Acq: 8 Oct 2018 20:33

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOIL

Tot Ion:	276	Resp:	142260
Ion Ratio		Lower	Upper
276	100		
277	23.9	18.8	28.2
138	20.0	16.0	24.0

Manual Integrations
 APPROVED

Sohil
 10/9/2018 2:57:38 PM

