

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
 Data File : BF109688.D
 Acq On : 9 Oct 2018 10:43
 Operator : JU/SJ
 Sample : J5305-02DL2 40X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILDL2

Manual Integrations
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 10/9/2018 2:58:16 PM

Quant Time: Oct 09 11:27:51 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	77363	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	343010	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	135361	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	240099	20.00	ng	0.00
75) Chrysene-d12	13.83	240	207697	20.00	ng	0.00
86) Perylene-d12	15.23	264	168888	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	351	0.08	ng	0.07
7) Phenol-d6	6.44	99	10225m	1.76	ng	0.08
23) Nitrobenzene-d5	7.35	82	7134m	1.15	ng	0.08
41) 2,4,6-Tribromophenol	10.52	330	1827	1.24	ng	0.00
44) 2-Fluorobiphenyl	9.06	172	11821	1.20	ng	0.00
78) Terphenyl-d14	12.78	244	12326	1.15	ng	0.00
Target Compounds						
51) Acenaphthene	9.76	154	46874	5.987	ng	97
57) Fluorene	10.27	166	18941	2.161	ng	96
70) Phenanthrene	11.23	178	92660	7.712	ng	99
71) Anthracene	11.28	178	31971m	2.574	ng	
74) Fluoranthene	12.41	202	660000	52.580	ng	99
77) Pyrene	12.63	202	421046	27.669	ng	98
80) Benzo(a)anthracene	13.82	228	100095	8.733	ng	98
82) Chrysene	13.85	228	87707	7.285	ng	97
87) Benzo(b)fluoranthene	14.83	252	48550m	5.202	ng	
89) Benzo(a)pyrene	15.17	252	19177	2.264	ng	# 96

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

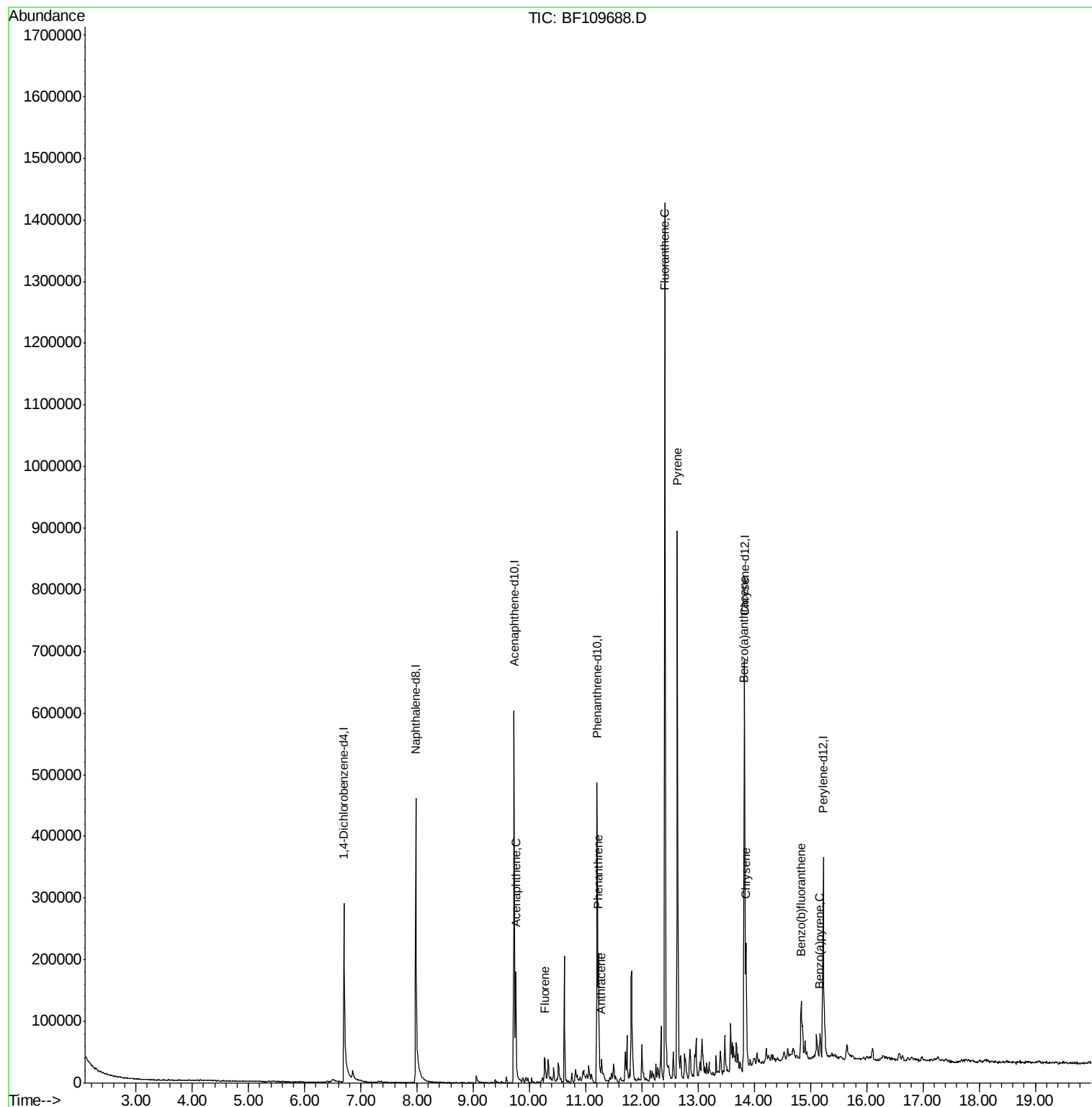
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
Data File : BF109688.D
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Sample : J5305-02DL2 40X
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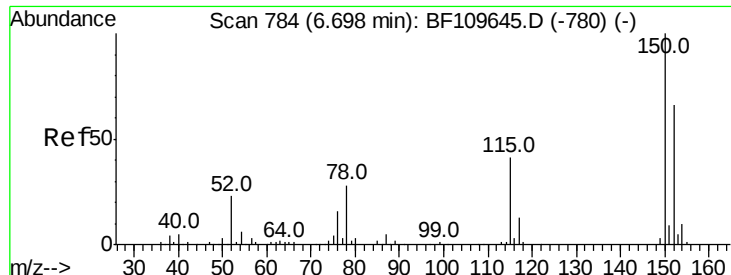
Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILDL2

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#1

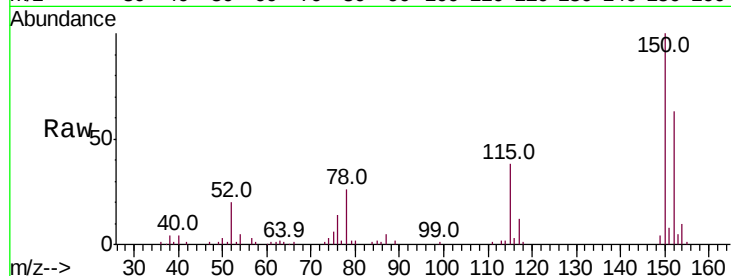
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.00 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILDL2

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.7	122.7	184.1
115	60.2	49.1	73.7

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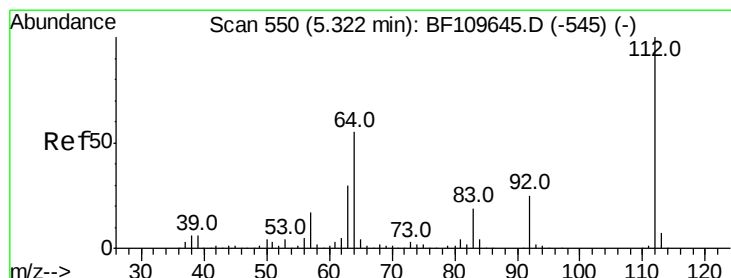
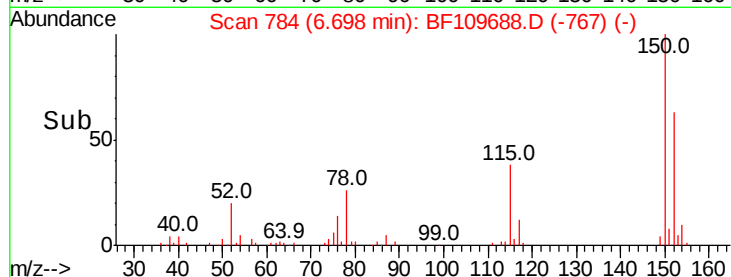
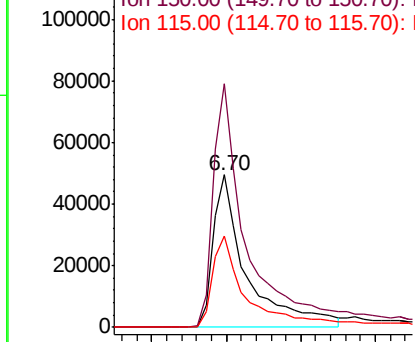


Abundance

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: 0.081 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.07 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

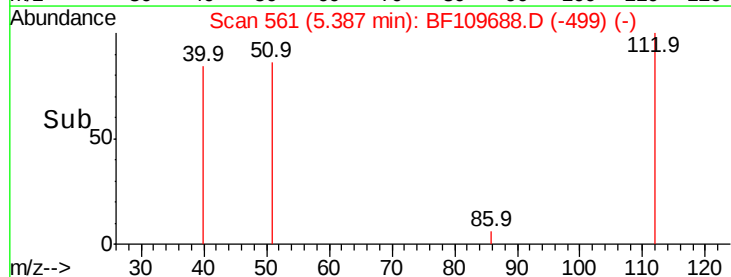
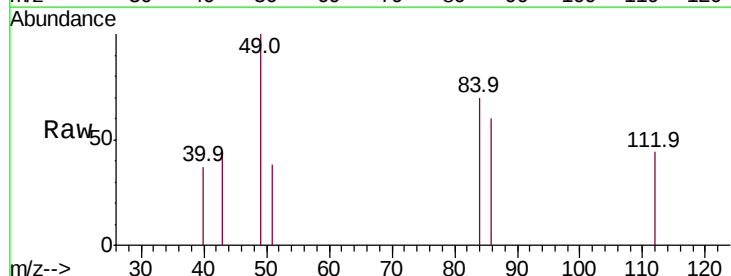
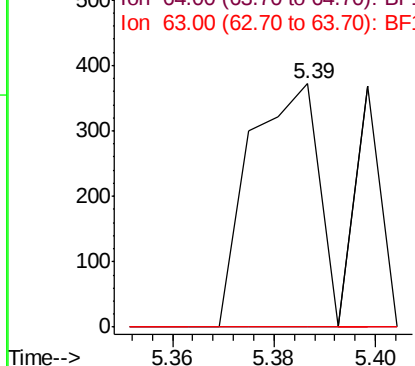
Tgt Ion	Ratio	Lower	Upper
112	100		
64	0.0	44.1	66.1#
63	0.0	23.7	35.5#

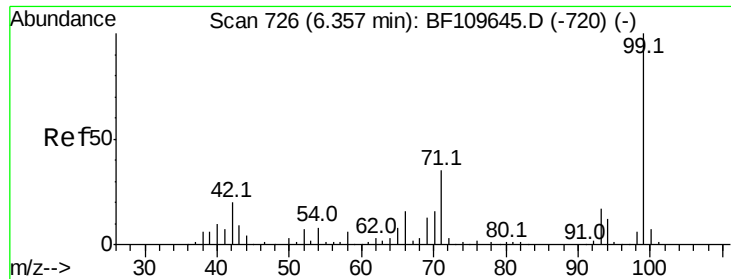
Abundance

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

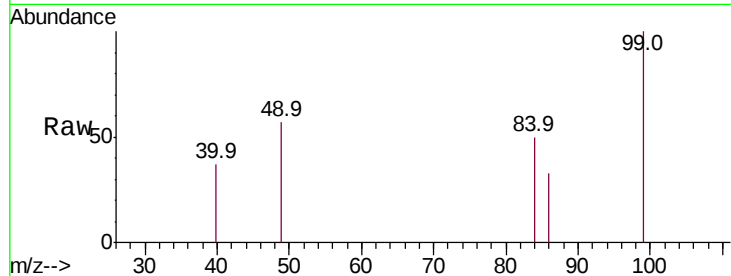
Concen: 1.756 ng/mL
 RT: 6.44 min Scan# 740
 Delta R.T. 0.08 min
 Lab File: BF109688.D
 Acq: 9 Oct 2018 10:43

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILD2

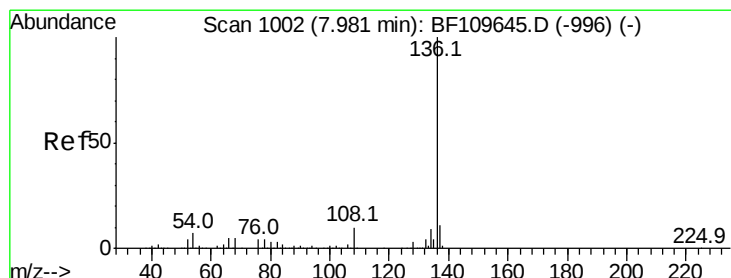
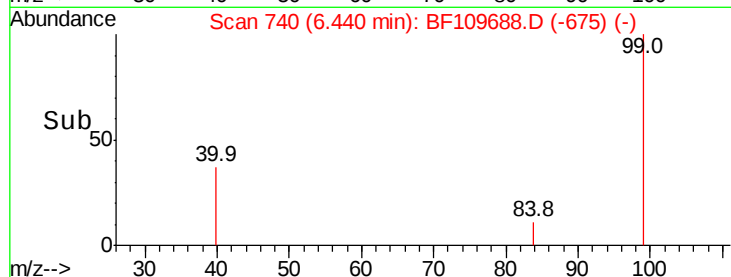
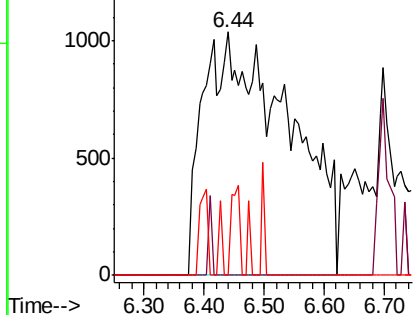
Tot Ion	Ratio	Lower	Upper
99	100		
42	0.0	15.8	23.6#
71	0.0	28.0	42.0#

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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



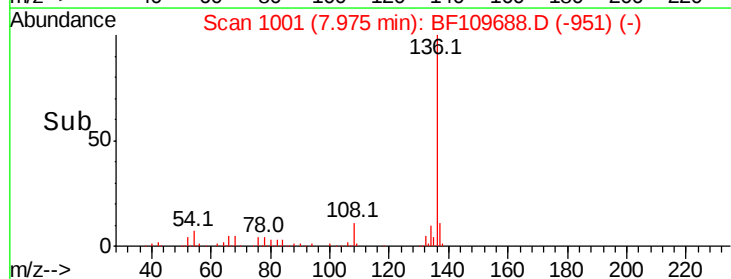
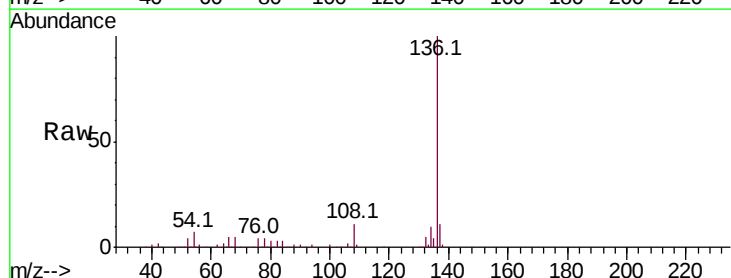
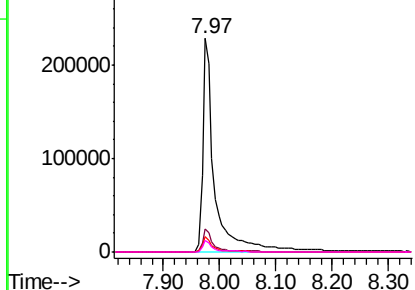
#21

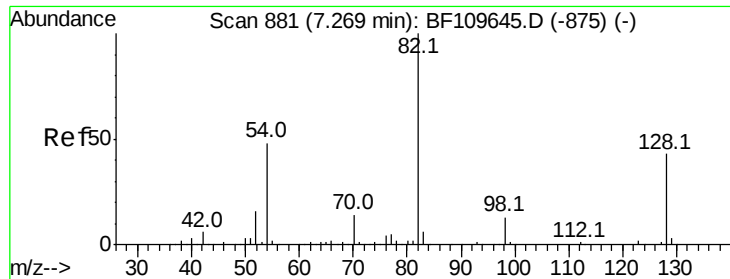
Naphthalene-d8

Concen: 20.000 ng
 RT: 7.97 min Scan# 1001
 Delta R.T. -0.01 min
 Lab File: BF109688.D
 Acq: 9 Oct 2018 10:43

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.2	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





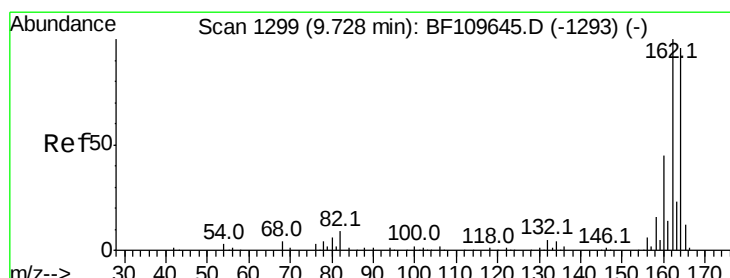
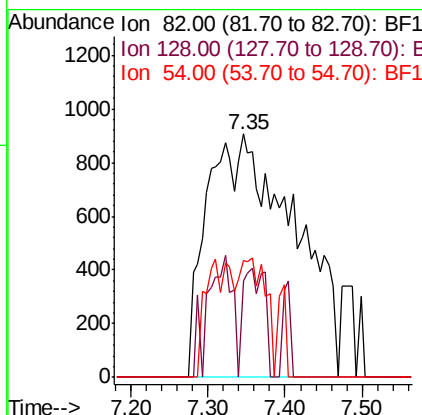
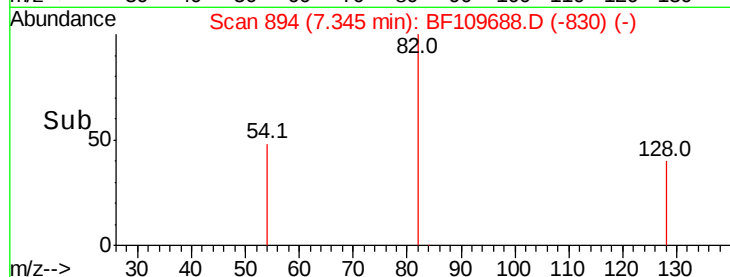
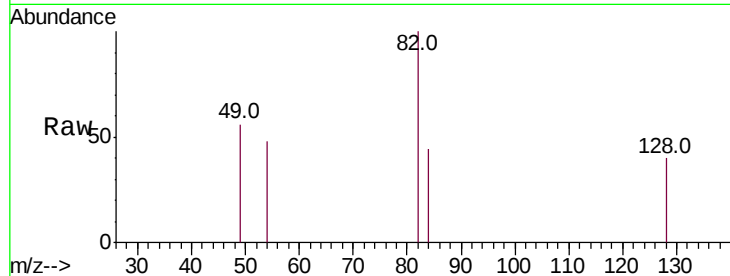
#23
Nitrobenzene-d5
Concen: 1.146 ng/ml
RT: 7.35 min Scan# 894
Delta R.T. 0.08 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILDL2

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.6	34.2	51.2
54	47.9	38.6	58.0

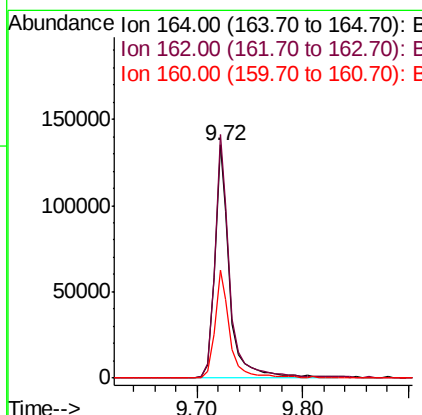
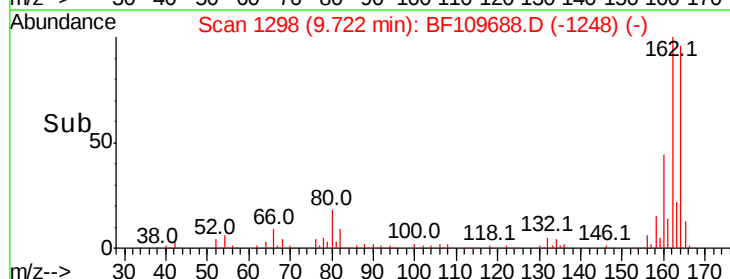
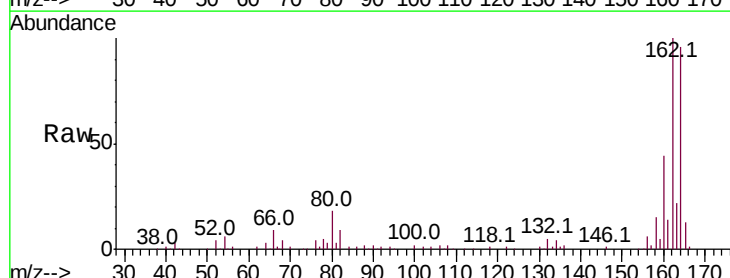
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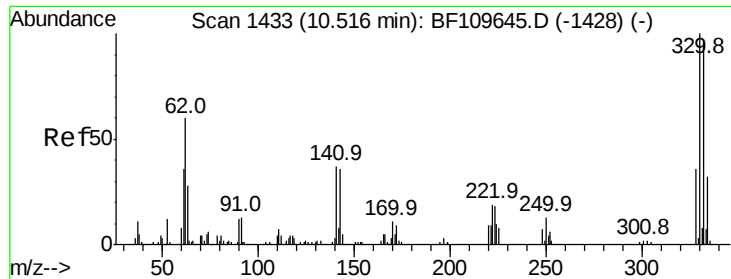
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	83.0	124.6
160	46.4	37.0	55.6





#41

2,4,6-Tribromophenol

Concen: 1.239 ng

RT: 10.52 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Instrument :

BNA_F

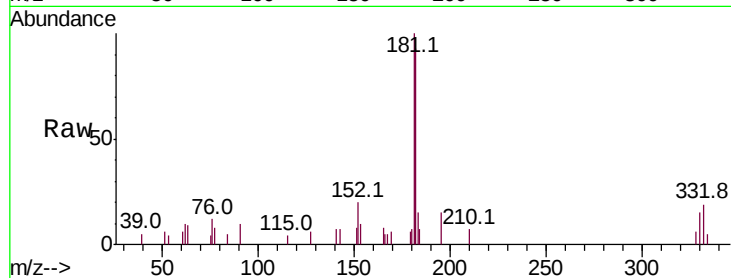
ClientSampleId :

331-SAND-SOILD2

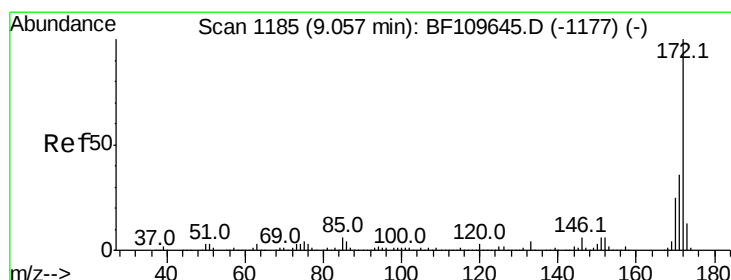
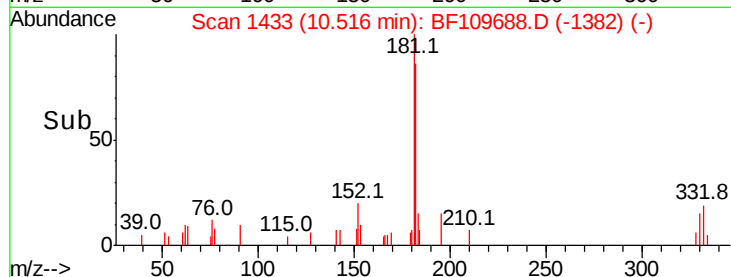
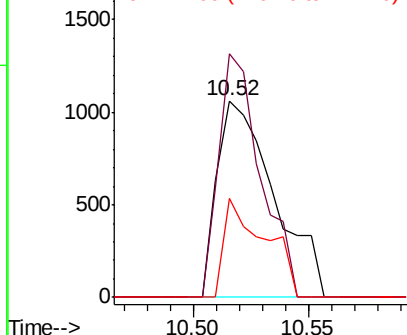
Tot Ion	Ratio	Lower	Upper
330	100		
332	90.8	77.1	115.7
141	36.2	27.0	40.4

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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: 1.203 ng

RT: 9.06 min Scan# 1185

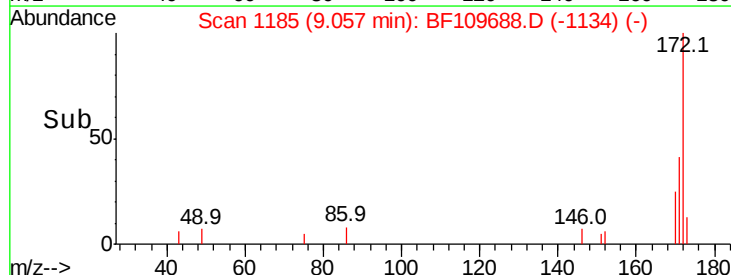
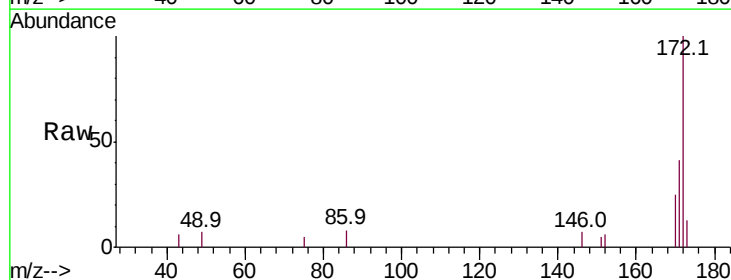
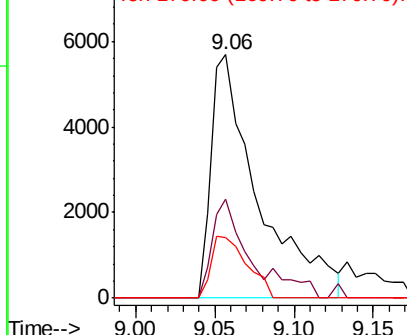
Delta R.T. 0.00 min

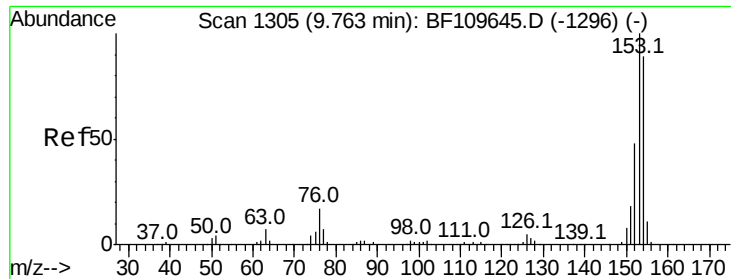
Lab File: BF109688.D

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Tgt Ion	Ratio	Lower	Upper
172	100		
171	40.7	28.6	43.0
170	25.1	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





#51

Acenaphthene

Concen: 5.987 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Instrument :

BNA_F

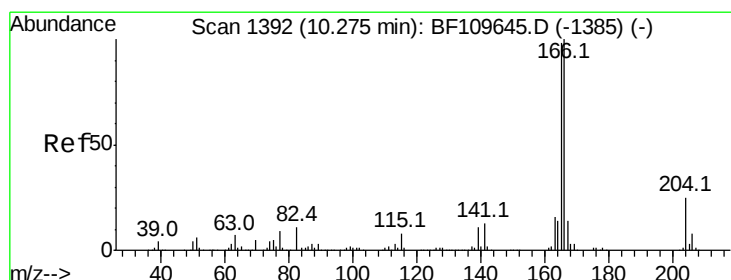
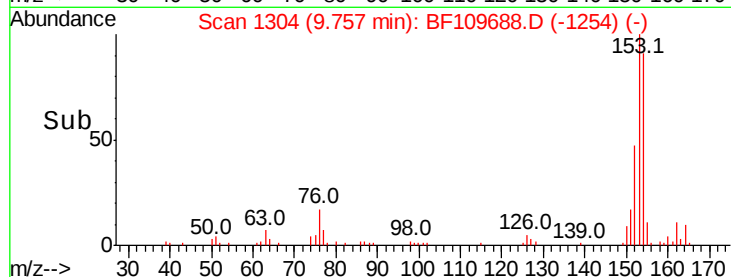
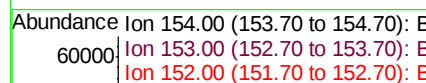
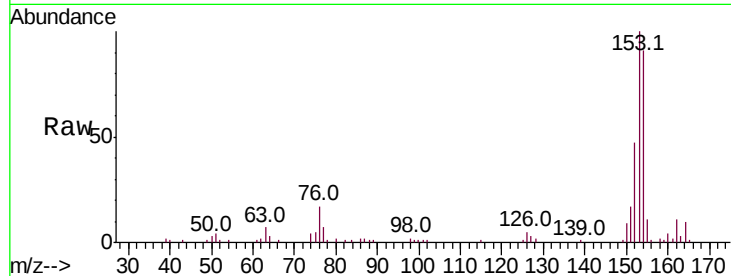
ClientSampleId :

331-SAND-SOILD2

Tot Ion:	154	Resp:	46874
Ion Ratio	Lower	Upper	
154	100		
153	110.4	90.1	135.1
152	51.6	43.4	65.2

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#57

Fluorene

Concen: 2.161 ng

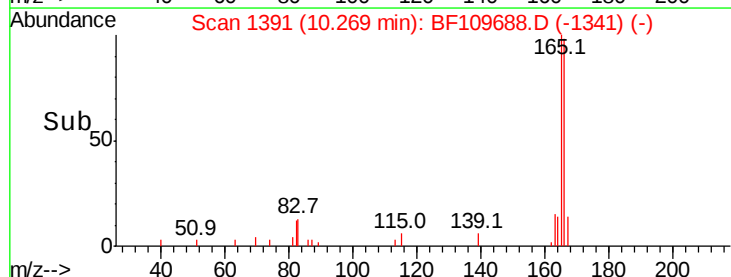
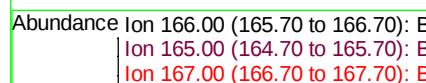
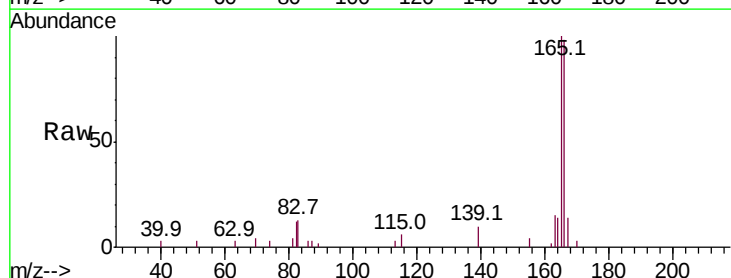
RT: 10.27 min Scan# 1391

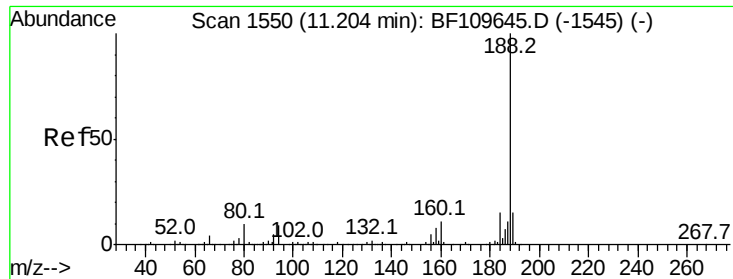
Delta R.T. -0.01 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Tgt Ion:	166	Resp:	18941
Ion Ratio	Lower	Upper	
166	100		
165	102.1	78.6	117.8
167	14.0	10.8	16.2





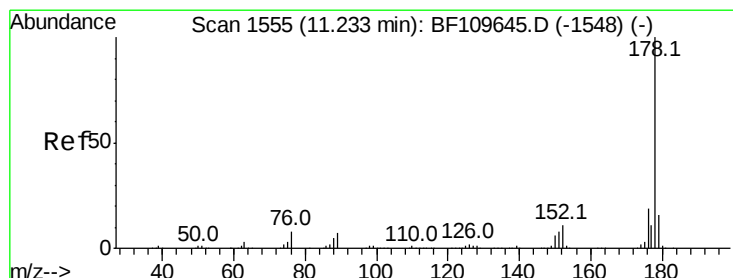
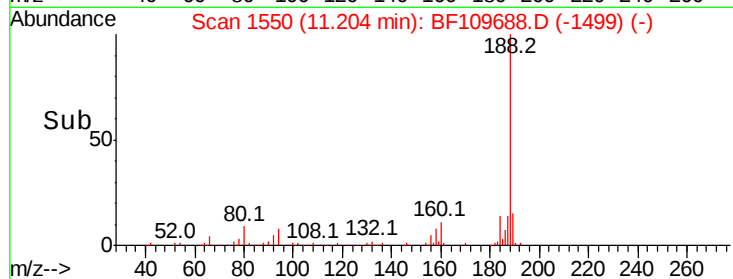
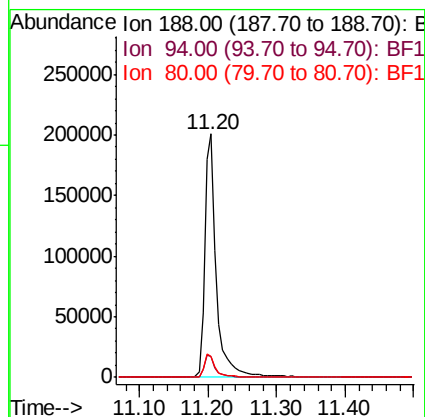
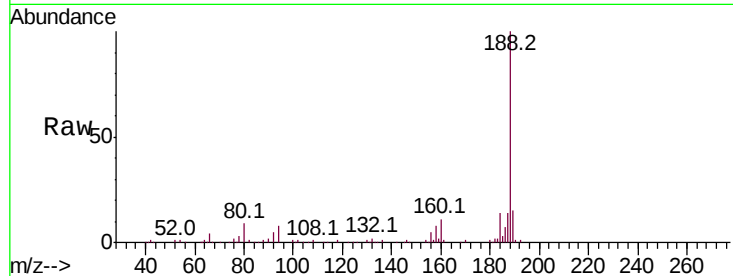
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1550
Delta R.T. 0.00 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILDL2

Tot Ion	Ratio	Resp	Lower	Upper
188	100	240099		
94	8.4		7.2	10.8
80	8.7		7.9	11.9

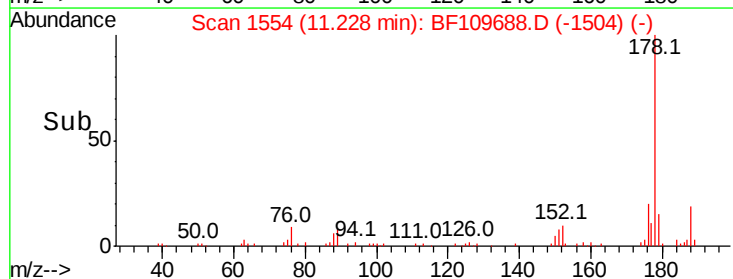
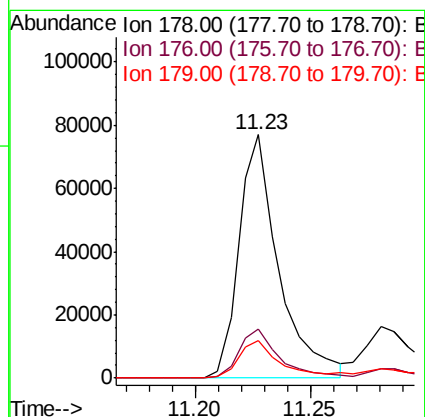
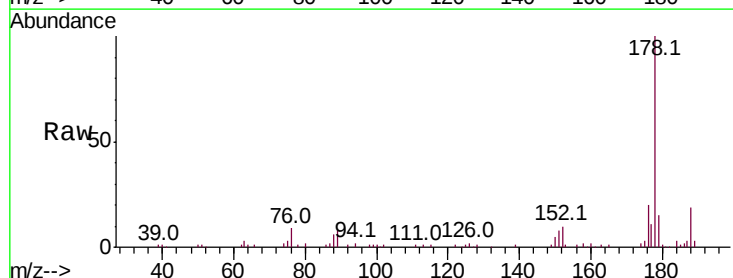
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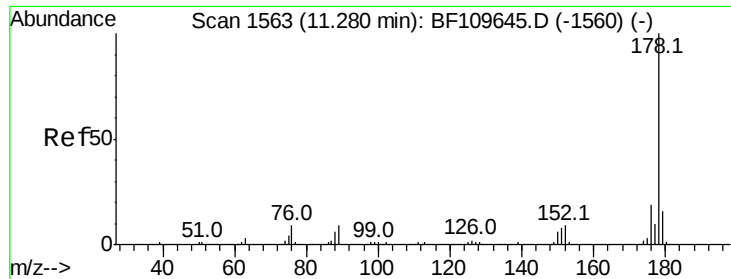
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#70
Phenanthrene
Concen: 7.712 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	92660		
176	20.0		15.5	23.3
179	15.3		12.5	18.7





#71

Anthracene

Concen: 2.574 ng/mL

RT: 11.28 min Scan# 1563

Delta R.T. 0.00 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Instrument :

BNA_F

ClientSampleID :

331-SAND-SOILDL2

Tot Ion:178 Resp: 31971

Ion Ratio Lower Upper

178 100

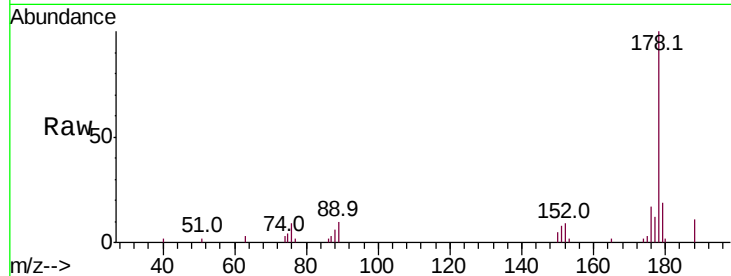
176 17.4 15.4 23.2

179 19.1 12.6 18.8#

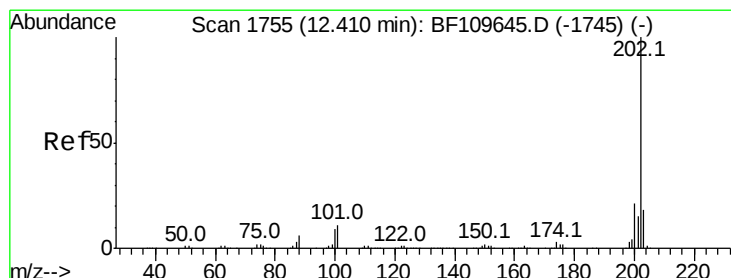
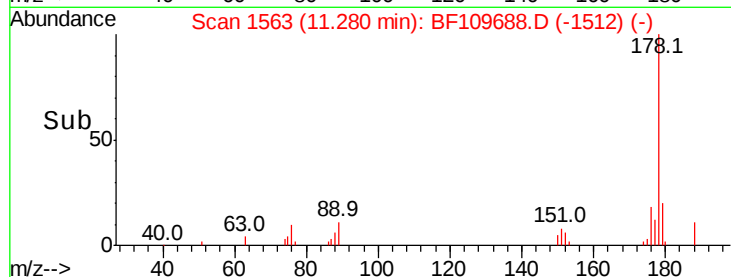
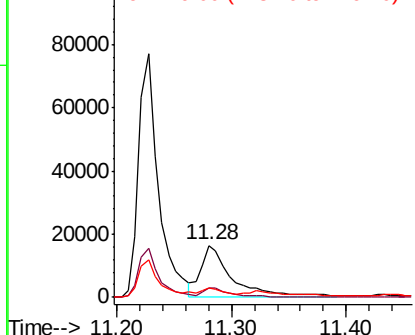
Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 52.580 ng/mL

RT: 12.41 min Scan# 1755

Delta R.T. 0.00 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

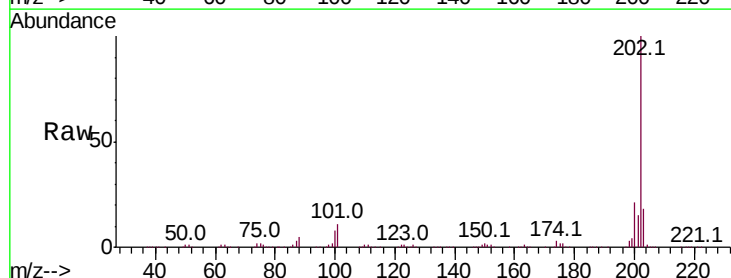
Tgt Ion:202 Resp: 660000

Ion Ratio Lower Upper

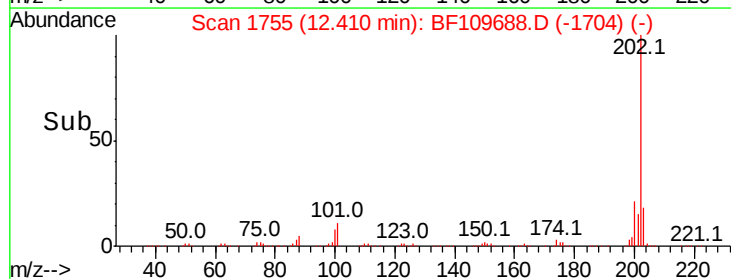
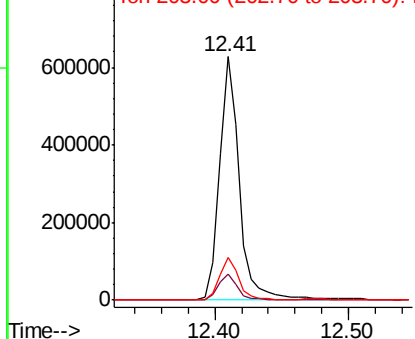
202 100

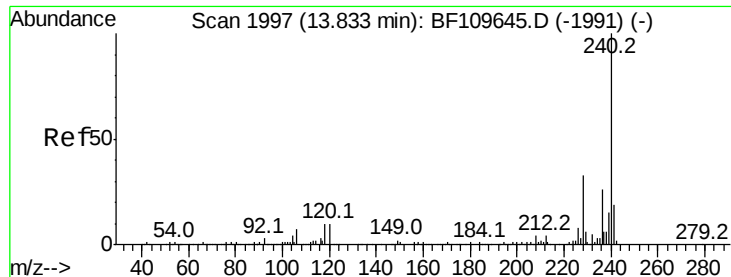
101 10.8 0.0 31.4

203 17.7 0.0 37.7



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.01 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Instrument :

BNA_F

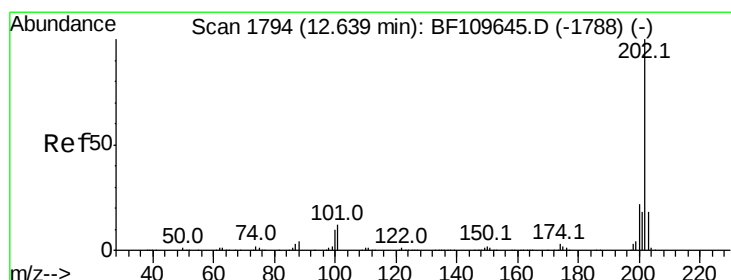
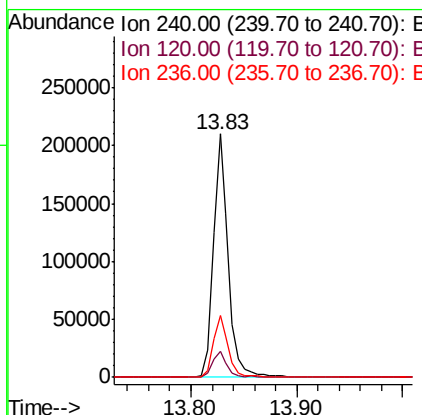
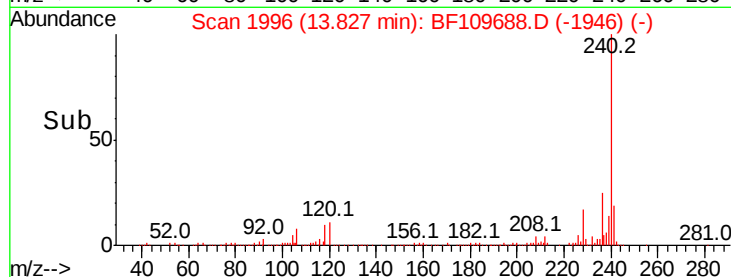
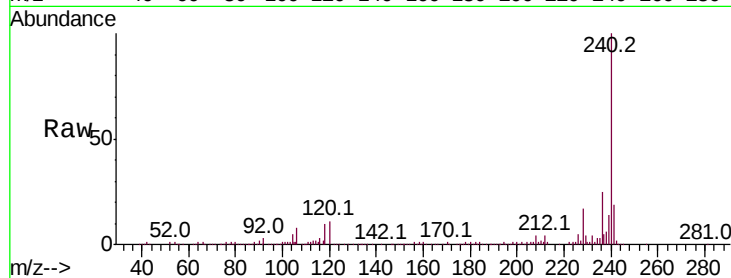
ClientSampleId :

331-SAND-SOILDL2

Tot Ion:	240	Resp:	207697
Ion Ratio	Lower	Upper	
240	100		
120	10.9	8.3	12.5
236	25.4	21.2	31.8

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#77

Pyrene

Concen: 27.669 ng

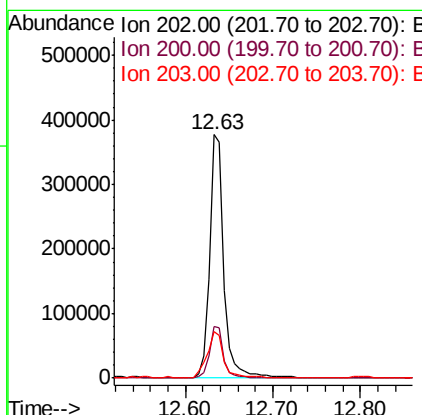
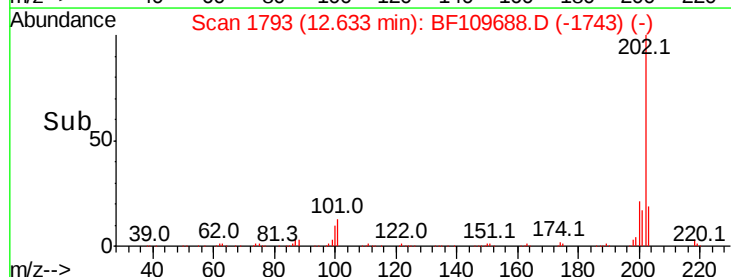
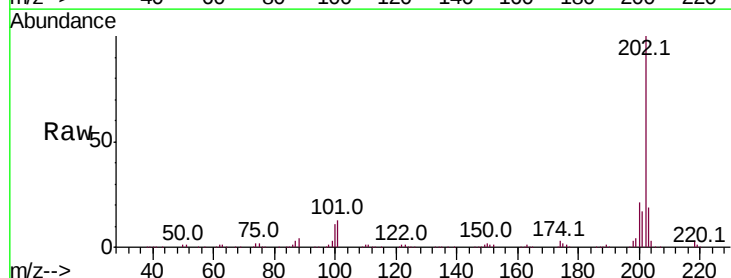
RT: 12.63 min Scan# 1793

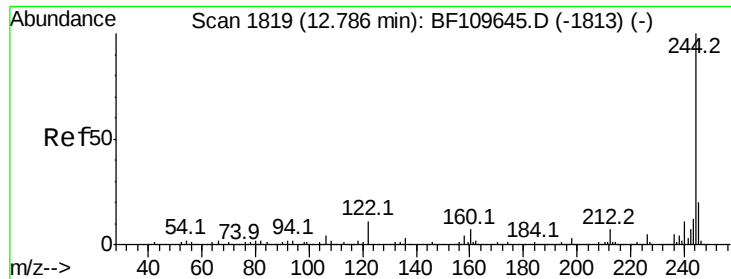
Delta R.T. -0.01 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Tgt Ion:	202	Resp:	421046
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.8	26.6
203	19.1	14.2	21.4





#78

Terphenyl-d14

Concen: 1.149 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Instrument :

BNA_F

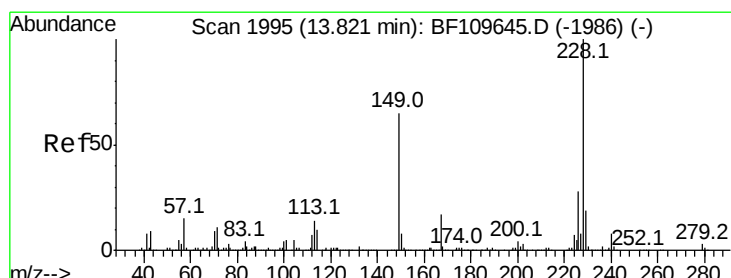
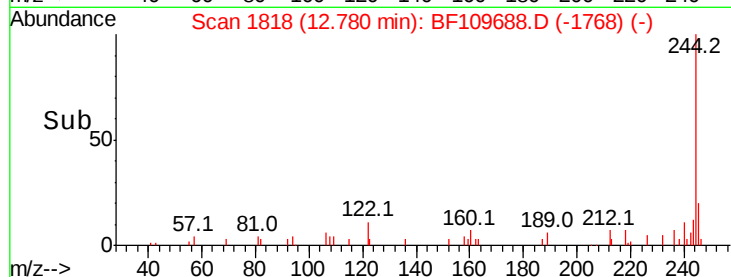
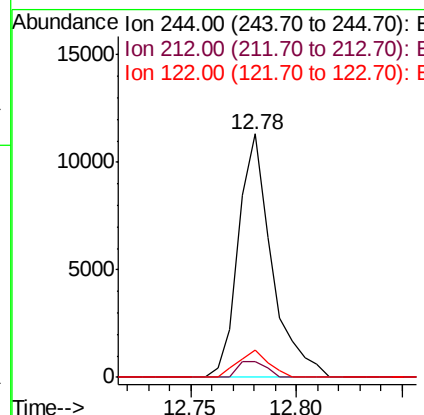
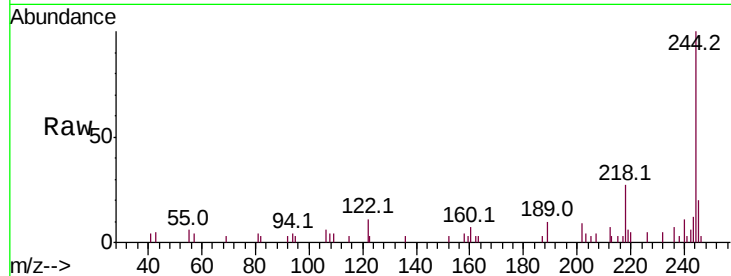
ClientSampleId :

331-SAND-SOILDL2

Tot Ion:	244	Resp:	12326
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.8	8.8
122	14.3	8.7	13.1

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#80

Benzo(a)anthracene

Concen: 8.733 ng

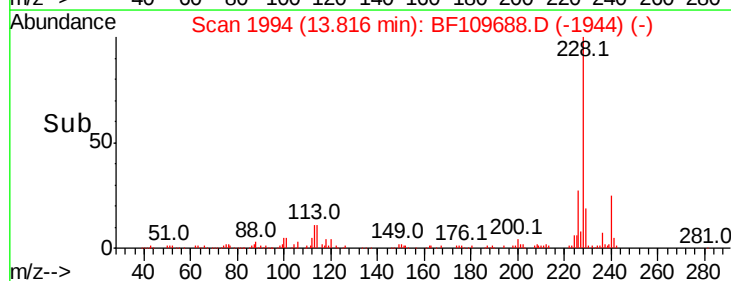
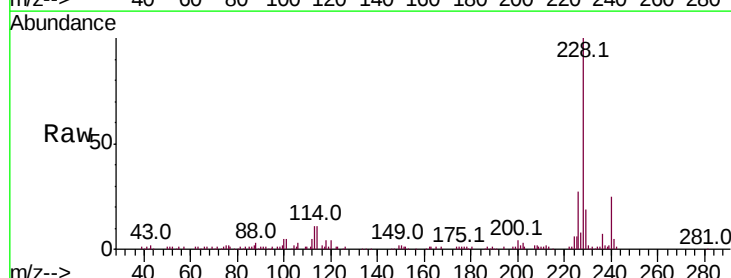
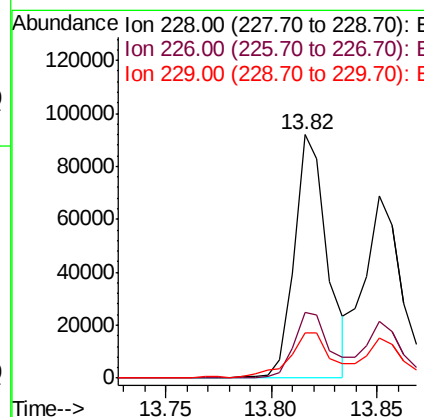
RT: 13.82 min Scan# 1994

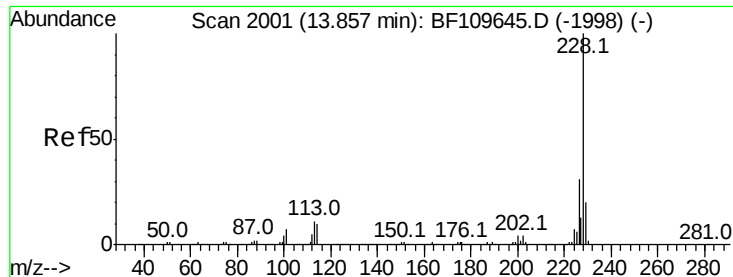
Delta R.T. -0.01 min

Lab File: BF109688.D

Acq: 9 Oct 2018 10:43

Tgt Ion:	228	Resp:	100095
Ion Ratio	Lower	Upper	
228	100		
226	26.7	22.1	33.1
229	18.8	15.6	23.4





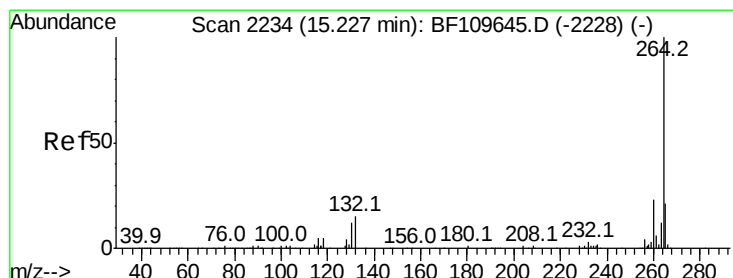
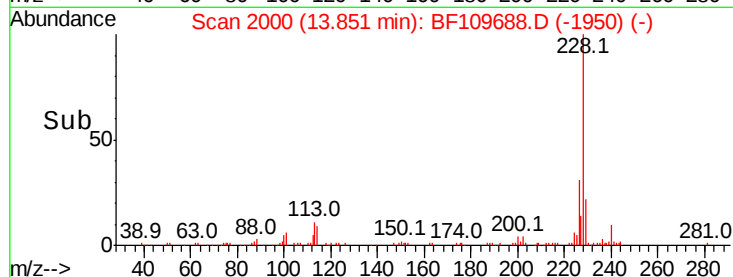
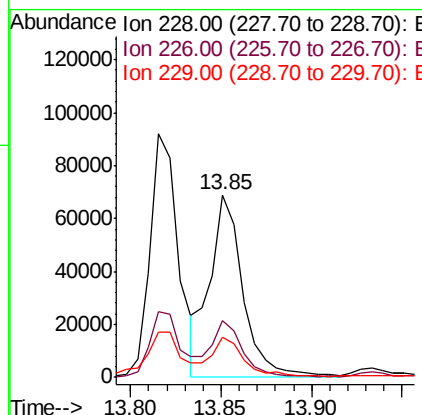
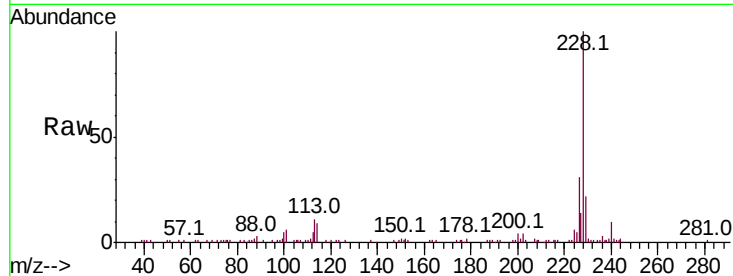
#82
 Chrysene
 Concen: 7.285 ng
 RT: 13.85 min Scan# 2000
 Delta R.T. -0.01 min
 Lab File: BF109688.D
 Acq: 9 Oct 2018 10:43

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILD2

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.7	37.1
229	22.3	15.9	23.9

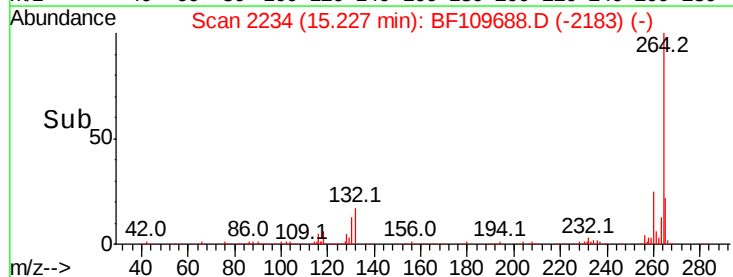
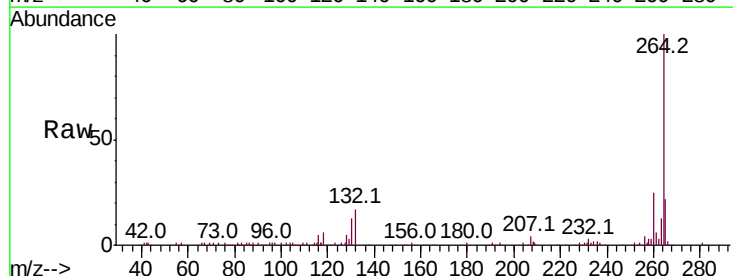
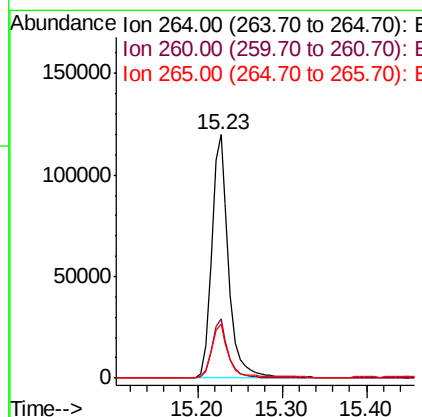
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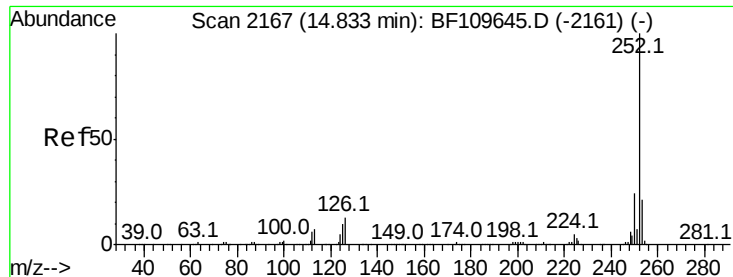
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.23 min Scan# 2234
 Delta R.T. 0.00 min
 Lab File: BF109688.D
 Acq: 9 Oct 2018 10:43

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	18.7	28.1
265	22.4	16.7	25.1





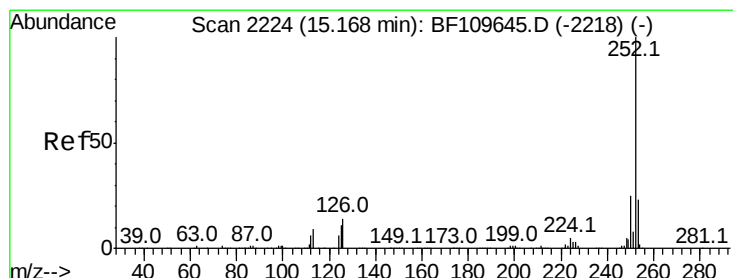
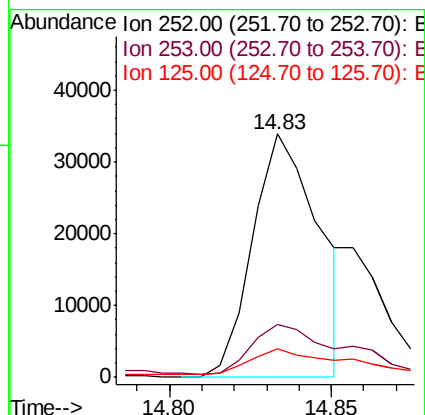
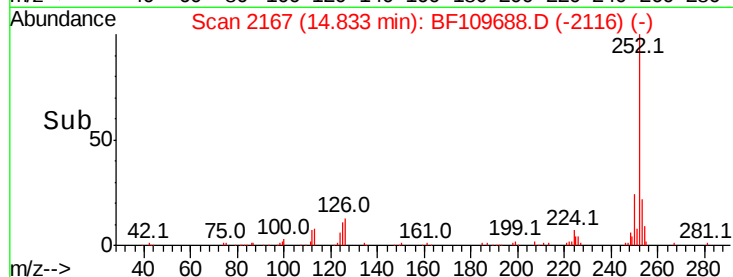
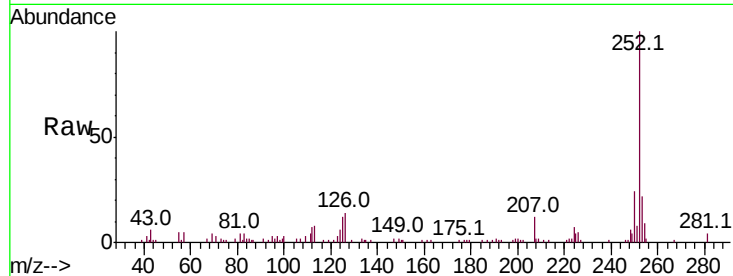
#87
Benzo(b)fluoranthene
Concen: 5.202 ng m
RT: 14.83 min Scan# 2167
Delta R.T. 0.00 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILDL2

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.2	25.8
125	11.8	8.2	12.4

Manual Integrations
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#89
Benzo(a)pyrene
Concen: 2.264 ng
RT: 15.17 min Scan# 2224
Delta R.T. 0.00 min
Lab File: BF109688.D
Acq: 9 Oct 2018 10:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.2	27.4
125	15.0	9.0	13.6#

