

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
 Data File : BF109686.D
 Acq On : 9 Oct 2018 9:46
 Operator : JU/SJ
 Sample : J5305-02DL 4X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILDL

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

Quant Time: Oct 09 11:20:38 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	88178	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	344636	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	132810	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	223257	20.00	ng	0.00
75) Chrysene-d12	13.84	240	197888	20.00	ng	0.00
86) Perylene-d12	15.23	264	180391	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	74766	15.05	ng	0.00
7) Phenol-d6	6.35	99	142119	21.42	ng	0.00
23) Nitrobenzene-d5	7.26	82	89793	14.36	ng	0.00
41) 2,4,6-Tribromophenol	10.51	330	25549	17.66	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	141114	14.63	ng	0.00
78) Terphenyl-d14	12.78	244	113037	11.06	ng	0.00
Target Compounds						
48) Acenaphthylene	9.59	152	79668	6.148	ng	99
51) Acenaphthene	9.76	154	395598	51.497	ng	99
54) Dibenzofuran	9.93	168	71543	6.213	ng	# 90
57) Fluorene	10.27	166	177956	20.694	ng	100
58) 2,3,4,6-Tetrachlorophenol	10.02	232	16259	6.437	ng	# 81
69) Pentachlorophenol	11.02	266	43874	28.069	ng	98
70) Phenanthrene	11.23	178	786123	70.361	ng	100
71) Anthracene	11.28	178	229678	19.887	ng	99
74) Fluoranthene	12.44	202	3938763	337.457	ng	96
77) Pyrene	12.66	202	2773176	191.272	ng	97
80) Benzo(a)anthracene	13.83	228	832090m	76.197	ng	
82) Chrysene	13.86	228	779775m	67.981	ng	
83) Bis(2-ethylhexyl)phthalate	13.82	149	16246	2.118	ng	98
85) Indeno(1,2,3-cd)pyrene	16.57	276	83739	10.199	ng	95
87) Benzo(b)fluoranthene	14.84	252	498325m	49.989	ng	
88) Benzo(k)fluoranthene	14.86	252	133676m	13.346	ng	
89) Benzo(a)pyrene	15.17	252	178260	19.705	ng	99
90) Dibenzo(a,h)anthracene	16.58	278	22176m	2.985	ng	
91) Benzo(a,h,i)perylene	16.97	276	64033	8.631	ng	96

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

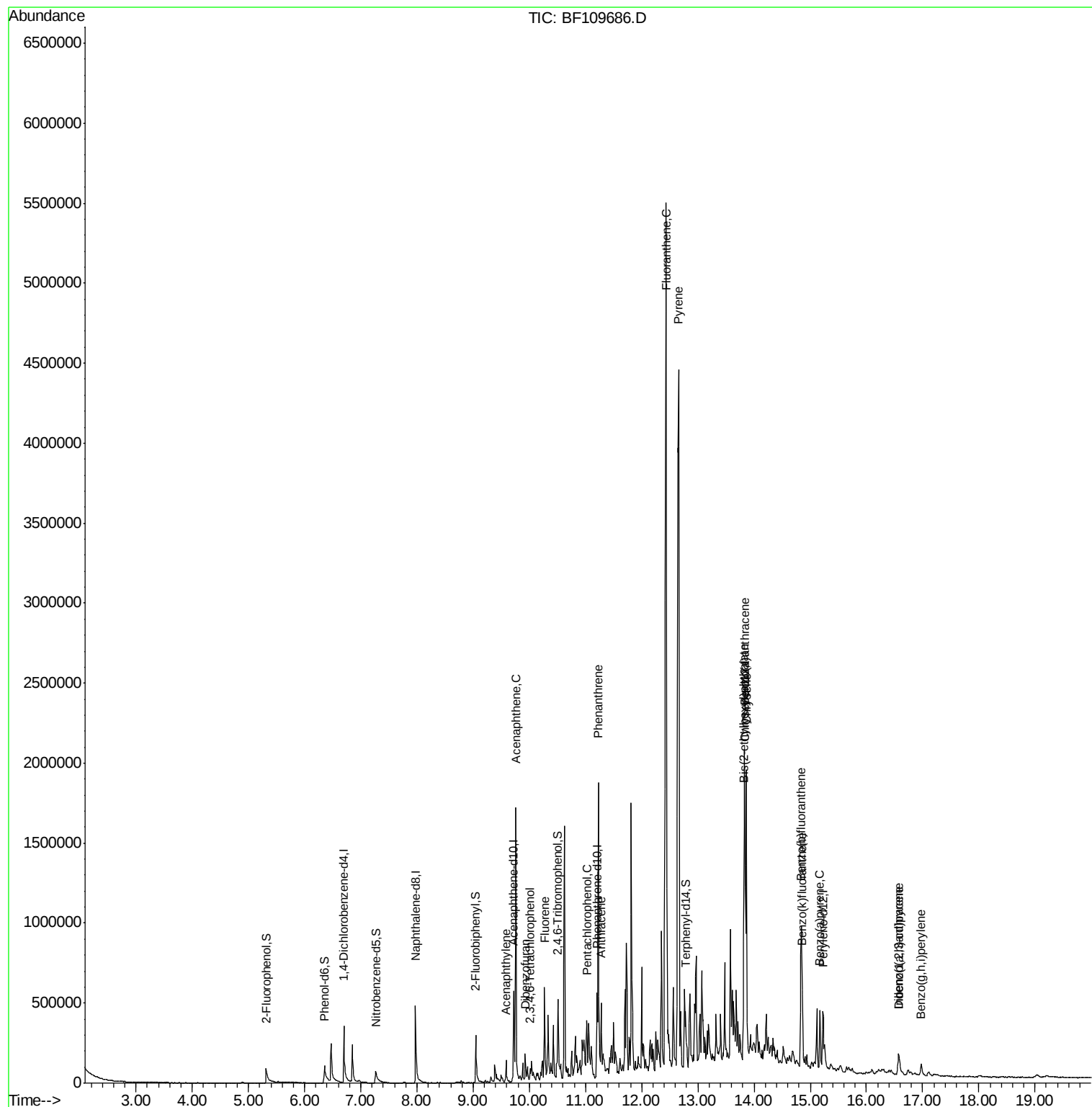
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100818\
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ALS Vial : 35 Sample Multiplier: 1

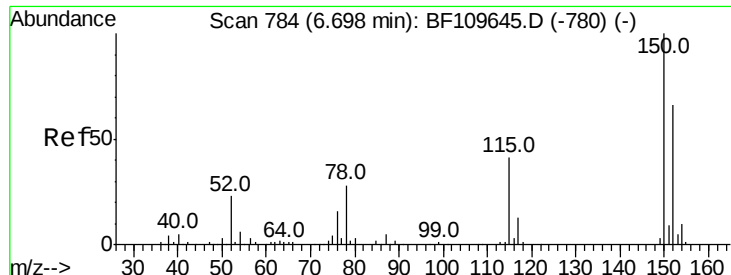
Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILD

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QLast Update : Mon Oct 08 16:02:11 2018
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#1

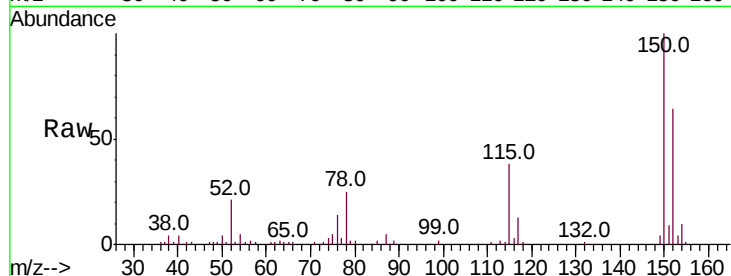
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. -0.00 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.7	122.7	184.1
115	59.2	49.1	73.7

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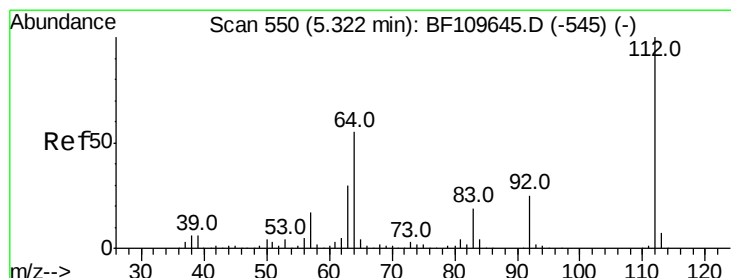
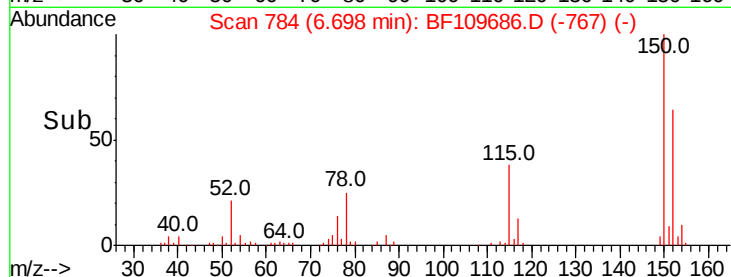
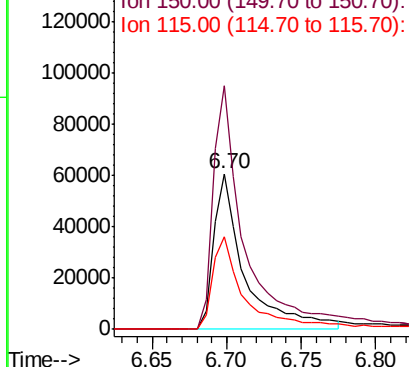


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

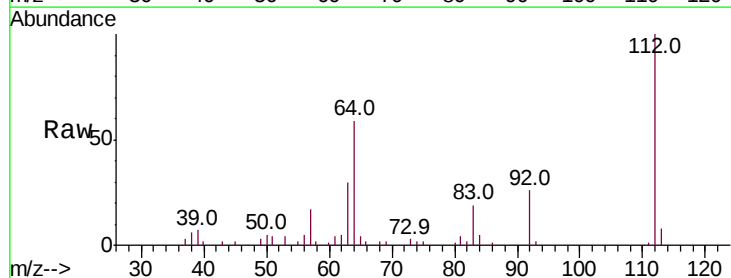
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 15.050 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.2	44.1	66.1
63	30.0	23.7	35.5

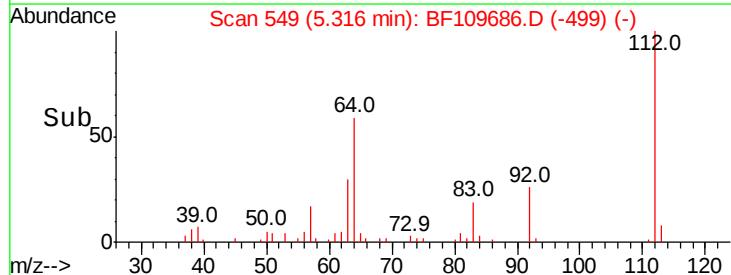
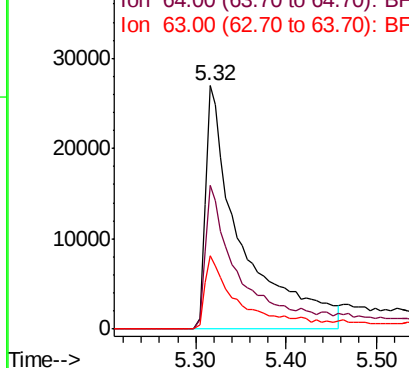


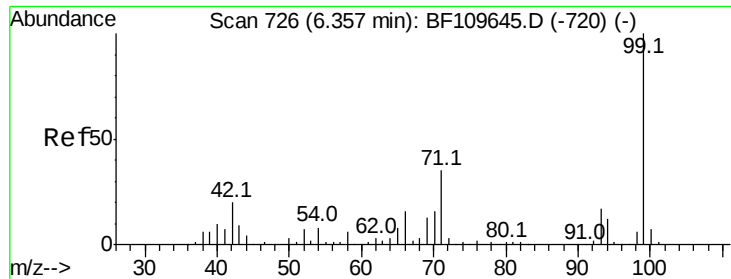
Abundance

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: 21.415 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

Instrument :

BNA_F

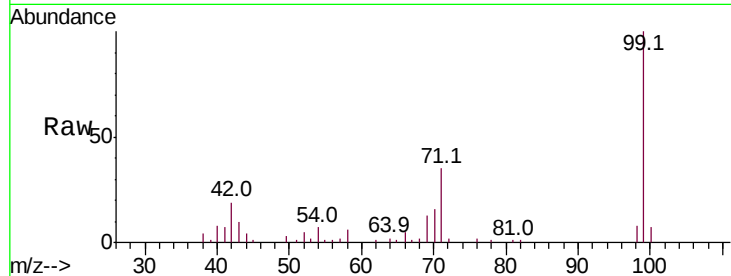
ClientSampleId :

331-SAND-SOILD

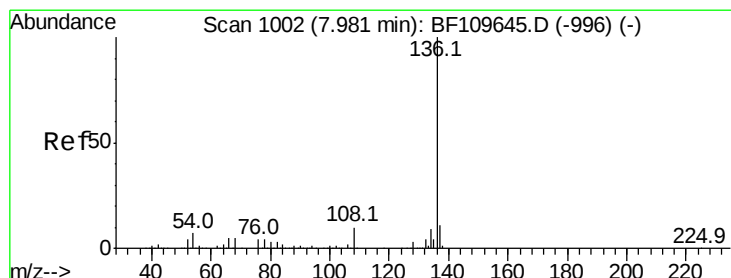
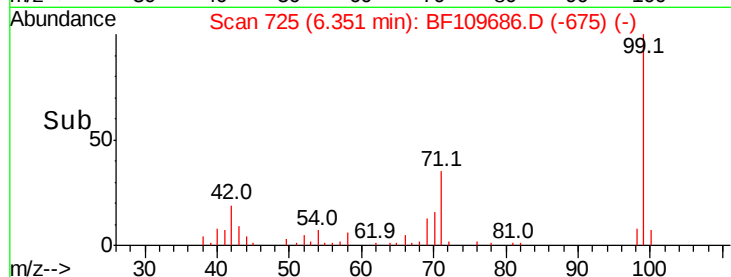
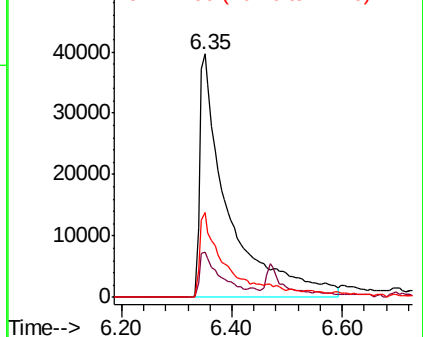
Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		142119		
42	18.6	15.8	23.6		
71	35.1	28.0	42.0		

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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

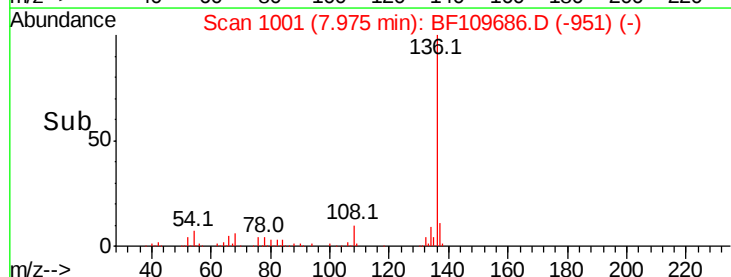
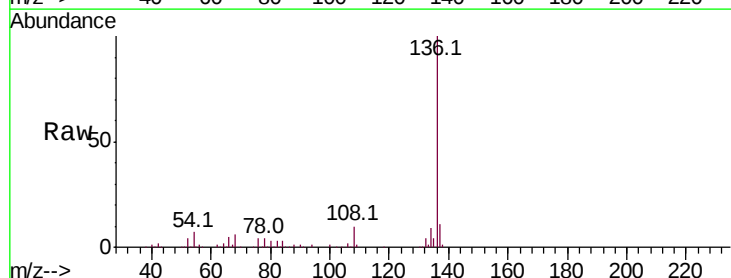
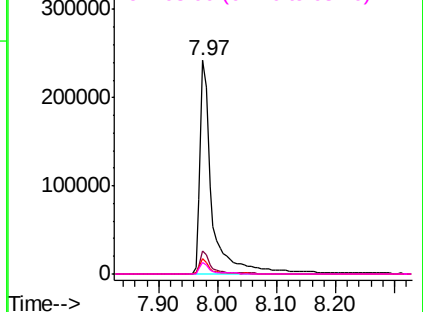
Delta R.T. -0.01 min

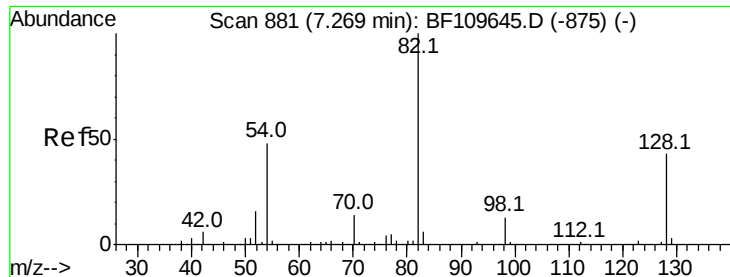
Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		344636		
137	11.0	8.8	13.2		
54	7.2	5.4	8.2		
68	5.6	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





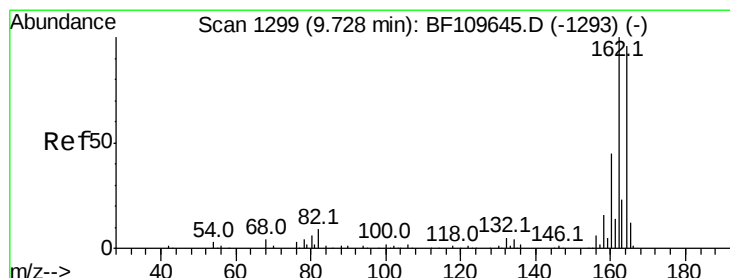
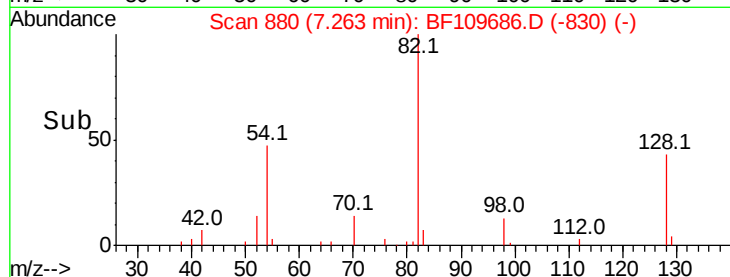
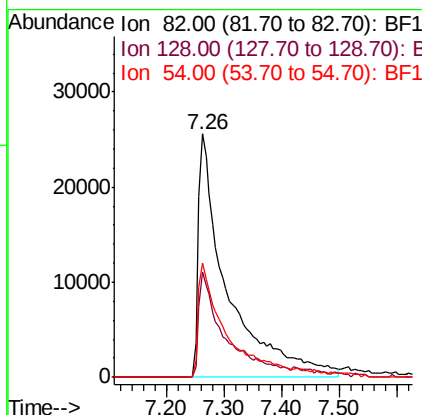
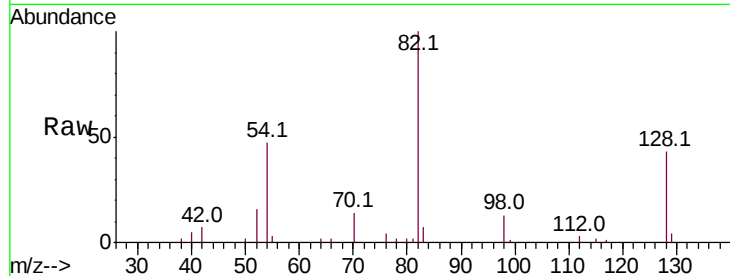
#23
Nitrobenzene-d5
Concen: 14.362 ng
RT: 7.26 min Scan# 880
Delta R.T. -0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.2	34.2	51.2
54	47.2	38.6	58.0

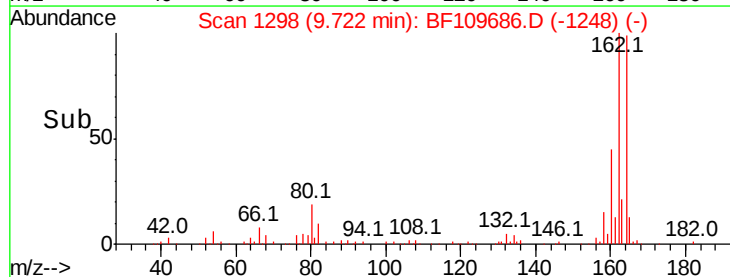
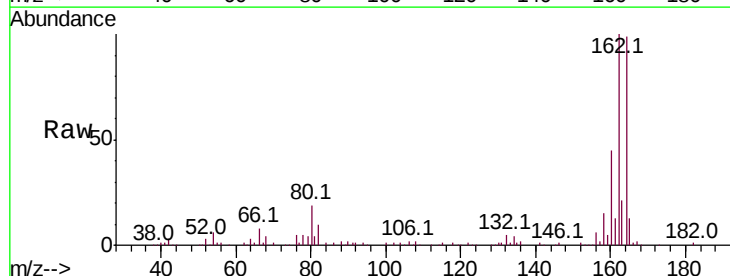
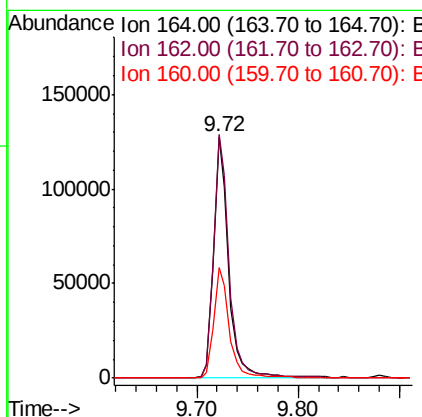
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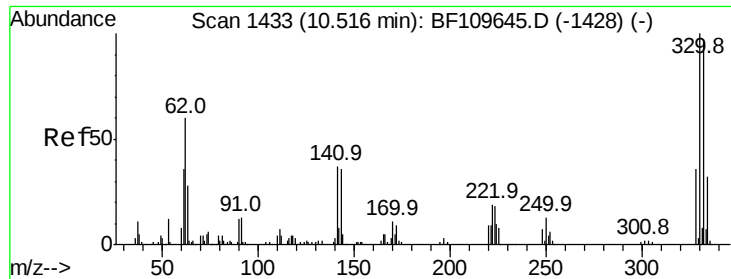
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	83.0	124.6
160	45.6	37.0	55.6





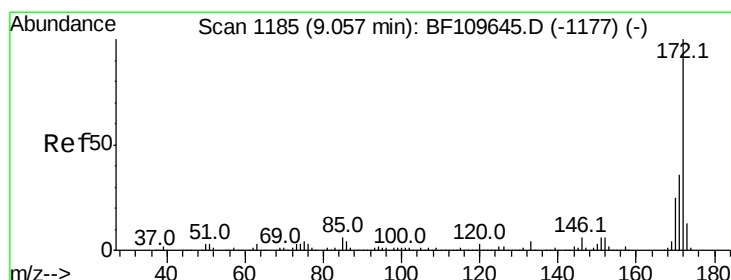
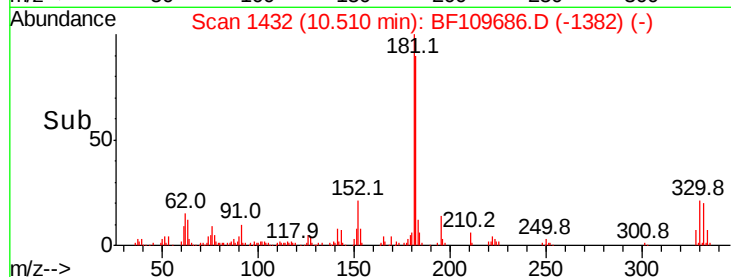
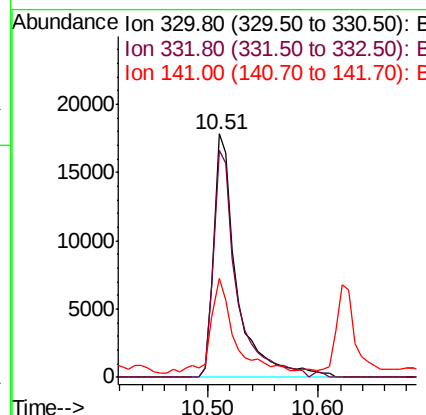
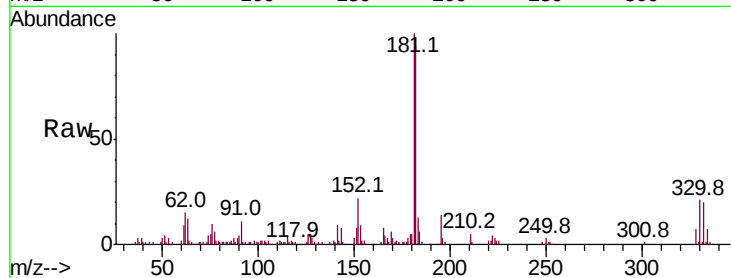
#41
 2,4,6-Tribromophenol
 Concen: 17.655 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.2	77.1	115.7
141	39.4	27.0	40.4

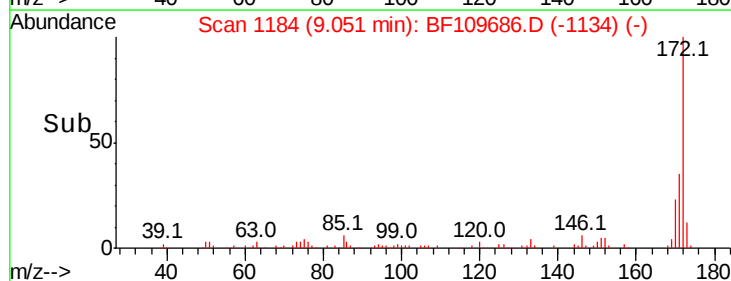
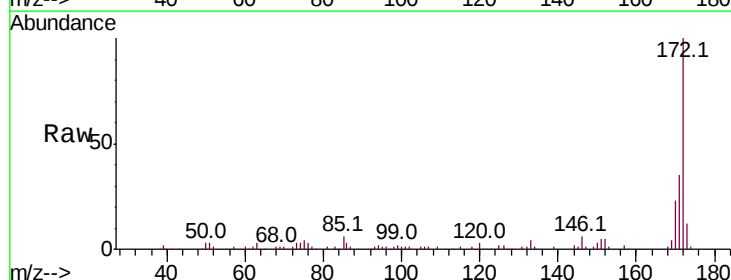
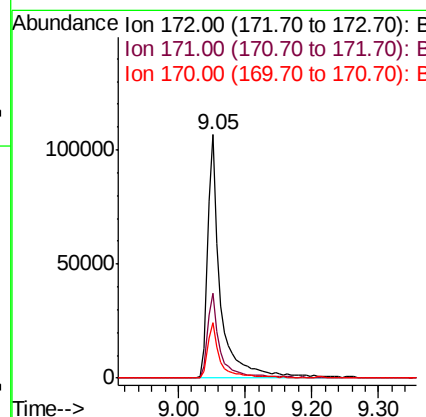
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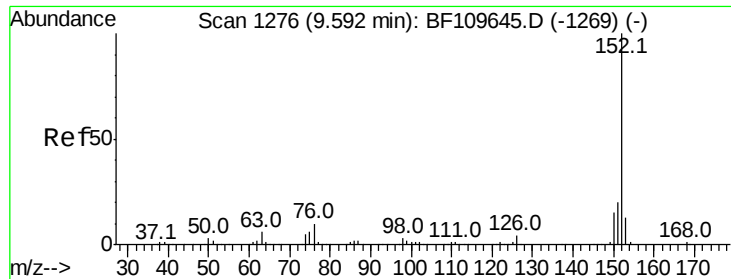
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#44
 2-Fluorobiphenyl
 Concen: 14.634 ng
 RT: 9.05 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.6	43.0
170	23.0	19.7	29.5





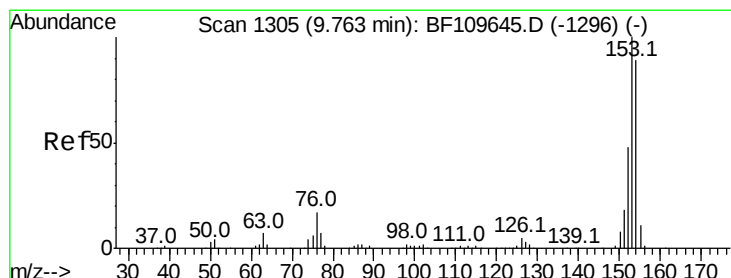
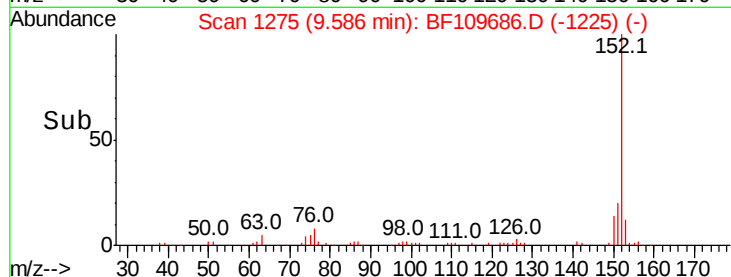
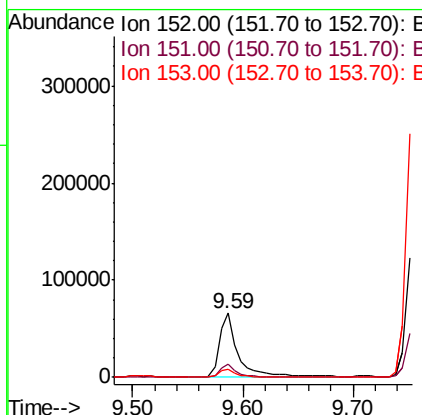
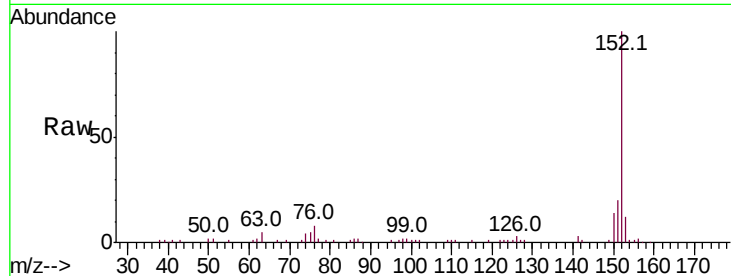
#48
Acenaphthylene
Concen: 6.148 ng
RT: 9.59 min Scan# 1275
Delta R.T. -0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	12.3	10.4	15.6

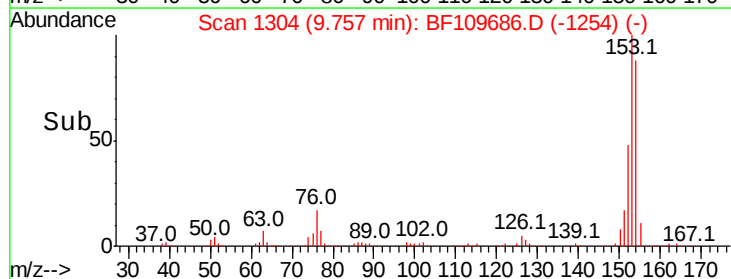
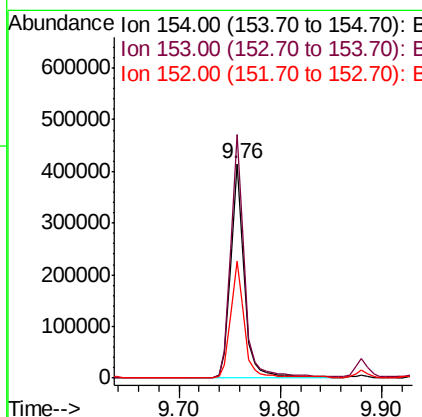
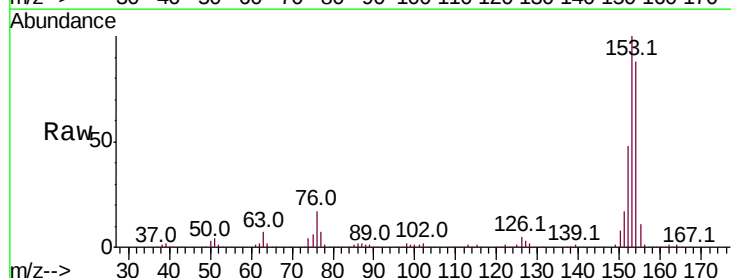
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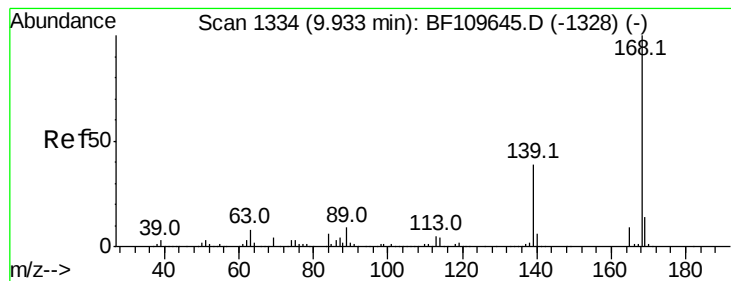
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#51
Acenaphthene
Concen: 51.497 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.5	90.1	135.1
152	54.6	43.4	65.2





#54

Dibenzofuran

Concen: 6.213 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.00 min

Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

Instrument :

BNA_F

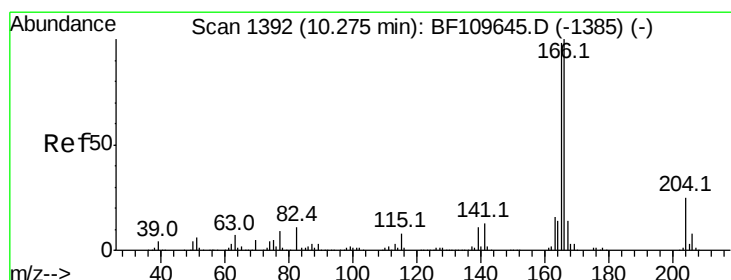
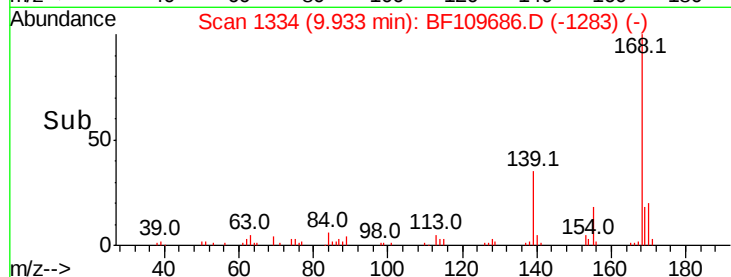
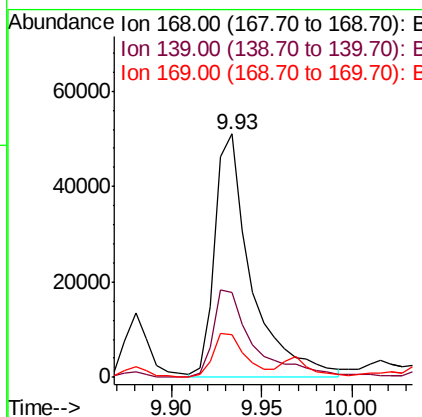
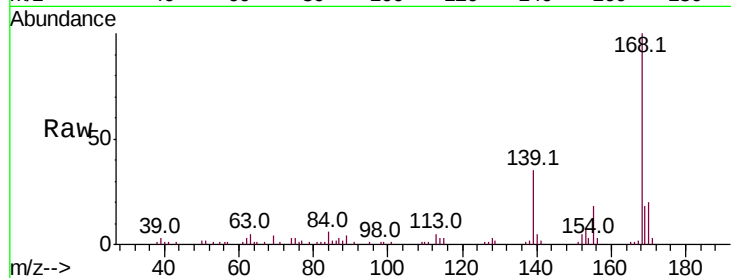
ClientSampleId :

331-SAND-SOILD

Tot Ion:	168	Resp:	71543
Ion Ratio	Lower	Upper	
168	100		
139	35.1	33.0	49.6
169	17.7	11.3	16.9#

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#57

Fluorene

Concen: 20.694 ng

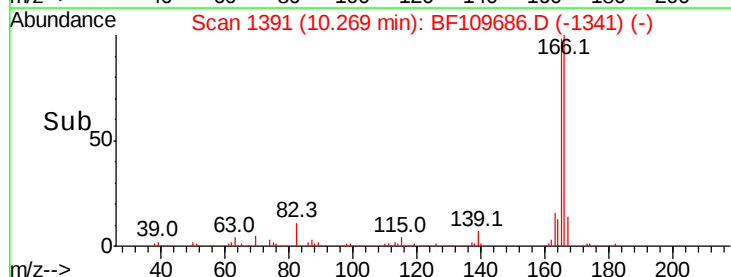
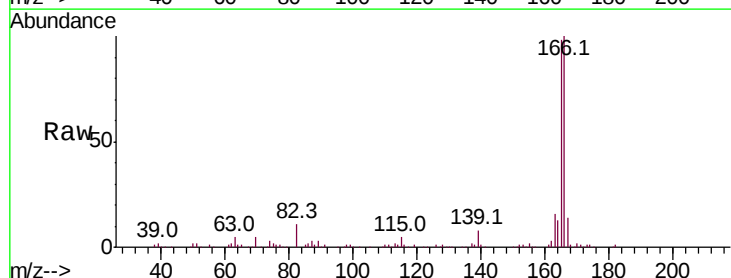
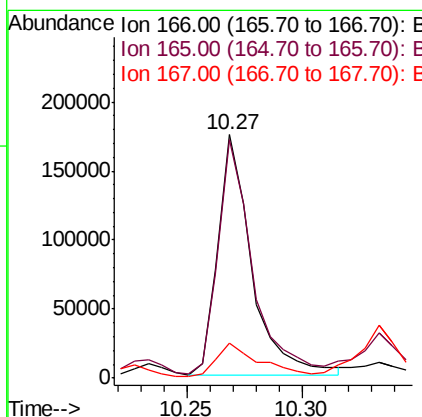
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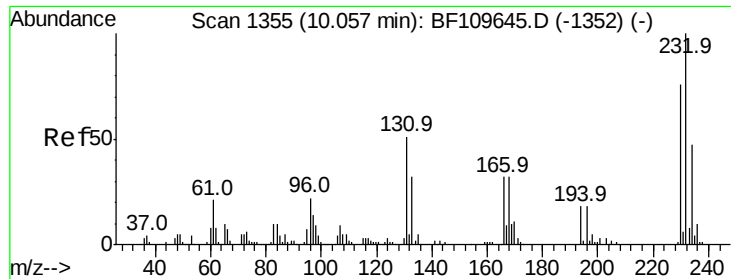
Delta R.T. -0.01 min

Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

Tgt Ion:	166	Resp:	177956
Ion Ratio	Lower	Upper	
166	100		
165	98.2	78.6	117.8
167	14.3	10.8	16.2





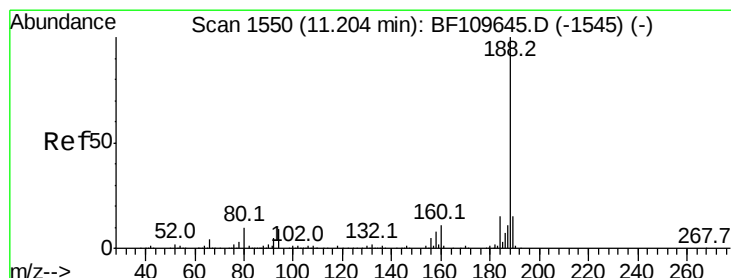
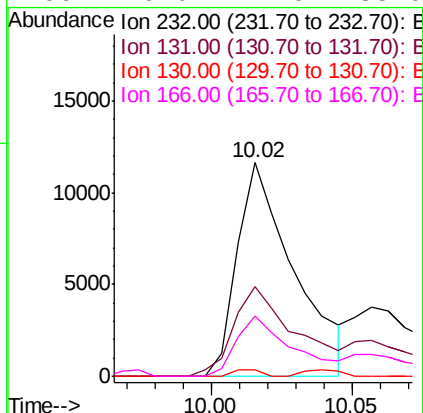
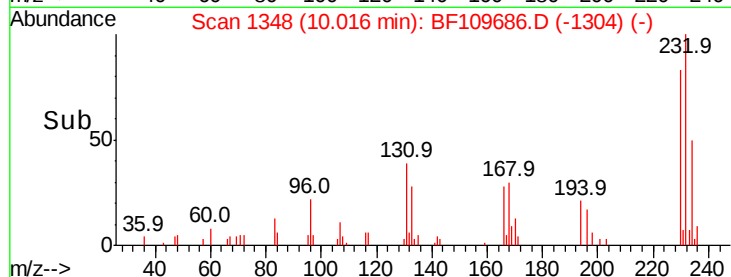
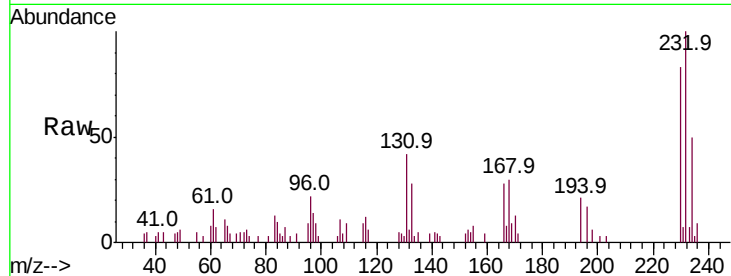
#58
 2,3,4,6-Tetrachlorophenol
 Concen: 6.437 ng
 RT: 10.02 min Scan# 1348
 Delta R.T. -0.04 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
232	100		
131	46.2	37.0	55.4
130	1.5	1.8	2.6
166	0.0	22.0	33.0

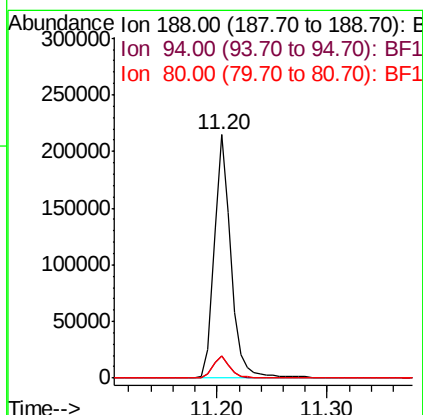
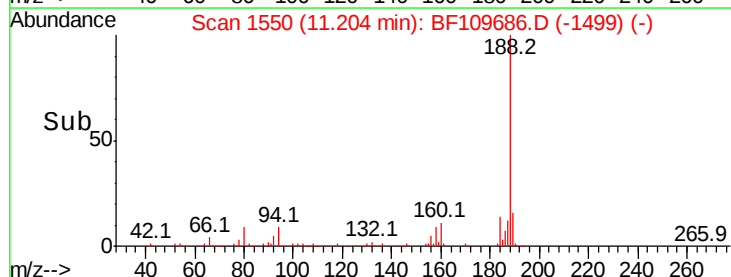
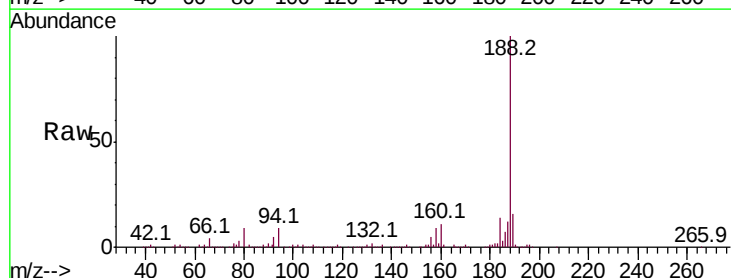
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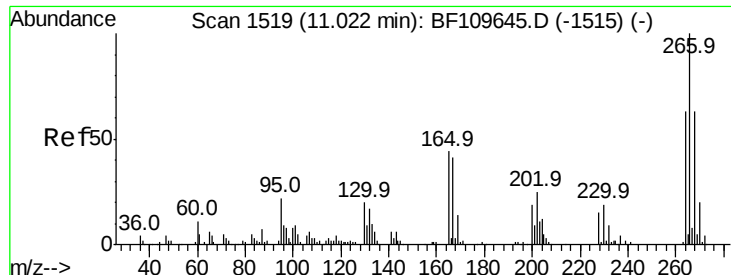
Sohil
 10/9/2018 2:58:10 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.20 min Scan# 1550
 Delta R.T. -0.00 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.2	10.8
80	9.2	7.9	11.9





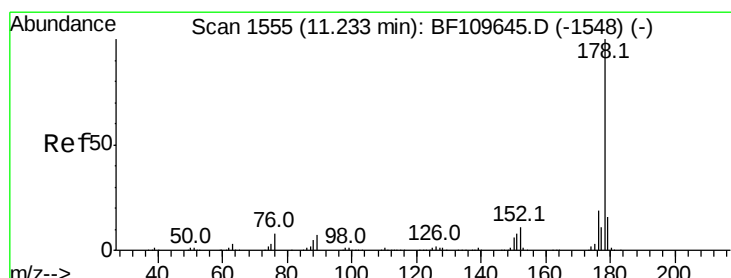
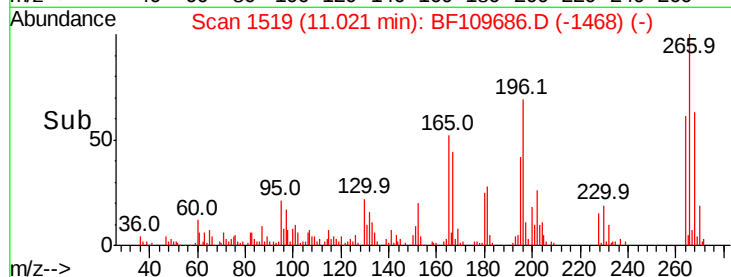
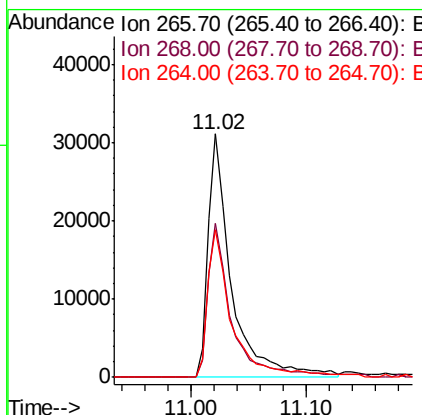
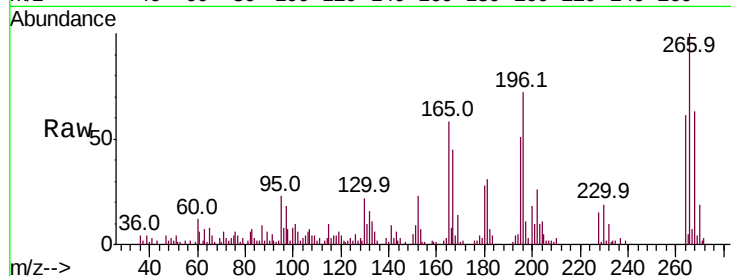
#69
 Pentachlorophenol
 Concen: 28.069 ng
 RT: 11.02 min Scan# 1519
 Delta R.T. -0.00 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.6	75.8
264	60.5	50.6	75.8

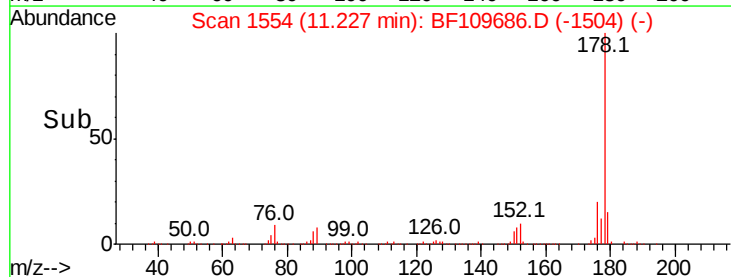
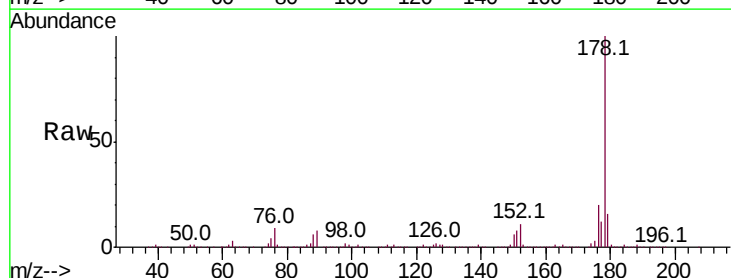
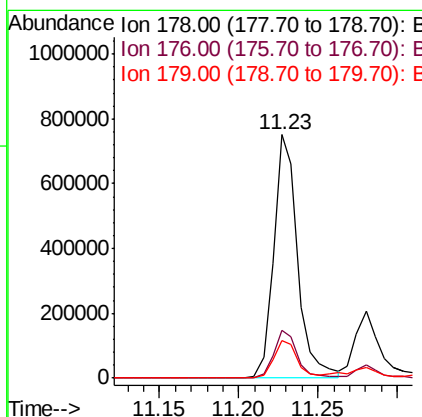
Manual Integrations
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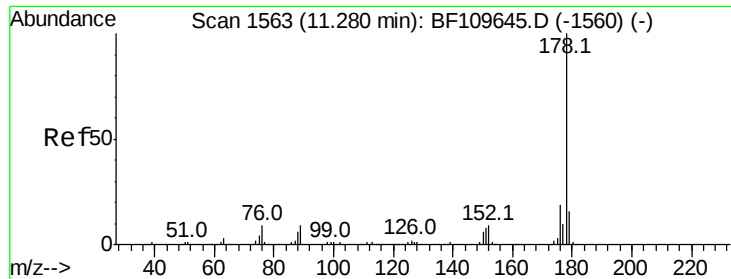
Sohil
 10/9/2018 2:58:10 PM



#70
 Phenanthrene
 Concen: 70.361 ng
 RT: 11.23 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.5	23.3
179	15.6	12.5	18.7





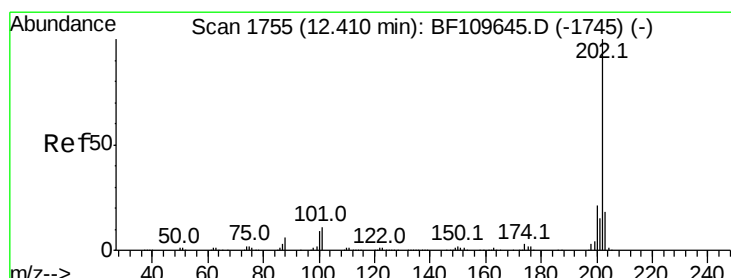
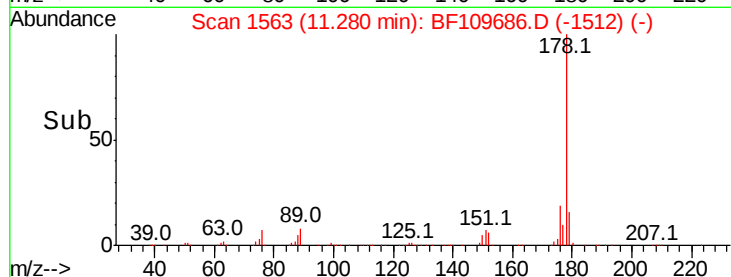
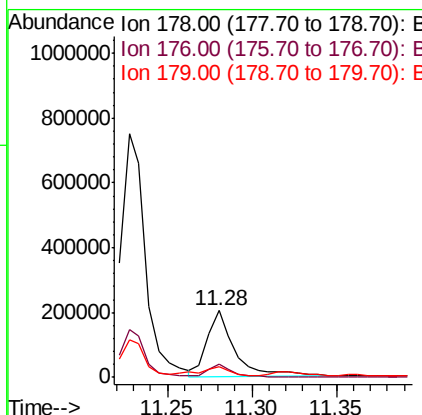
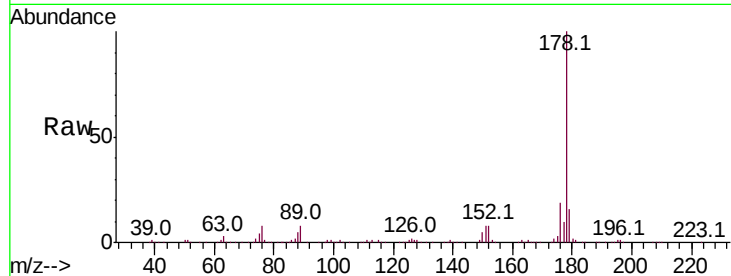
#71
 Anthracene
 Concen: 19.887 ng
 RT: 11.28 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	16.1	12.6	18.8

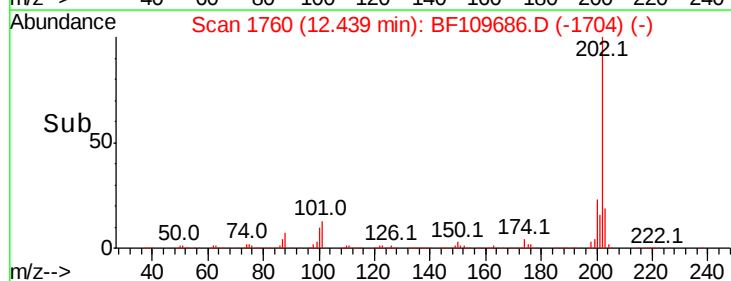
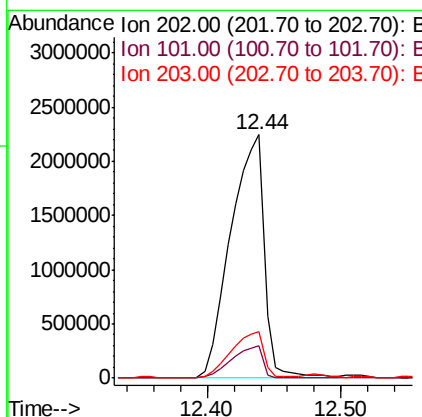
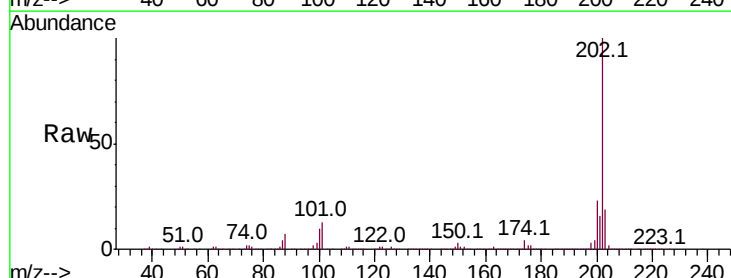
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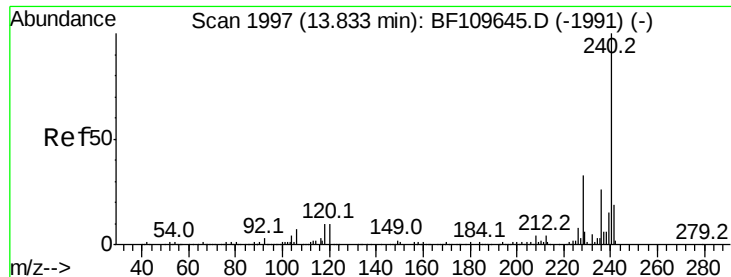
Sohil
 10/9/2018 2:58:10 PM



#74
 Fluoranthene
 Concen: 337.457 ng
 RT: 12.44 min Scan# 1760
 Delta R.T. 0.03 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	31.4
203	19.1	0.0	37.7





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.84 min Scan# 1998

Delta R.T. 0.01 min

Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

Instrument :

BNA_F

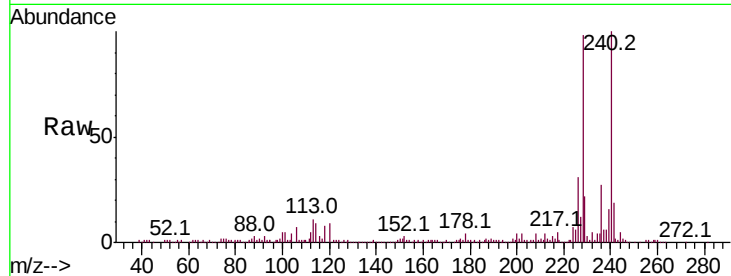
ClientSampleId :

331-SAND-SOILDL

Tot Ion	Ratio	Resp	Lower	Upper
240	100	197888		
120	9.2	8.3	12.5	
236	26.7	21.2	31.8	

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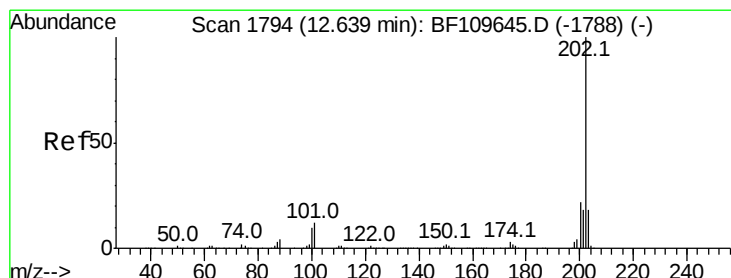
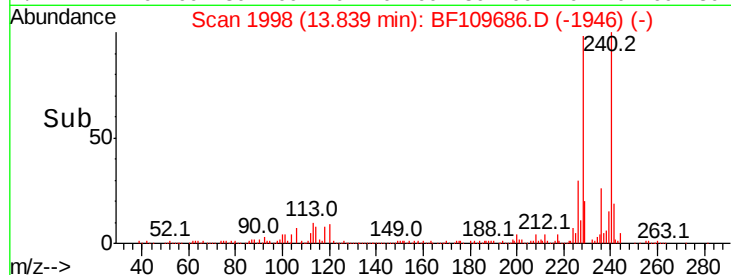
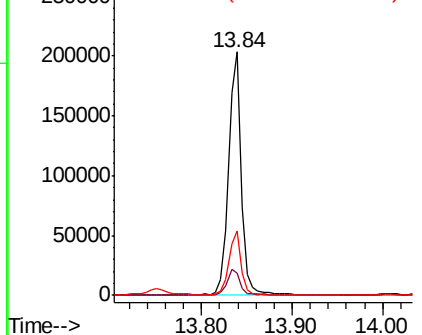


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 191.272 ng

RT: 12.66 min Scan# 1797

Delta R.T. 0.02 min

Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

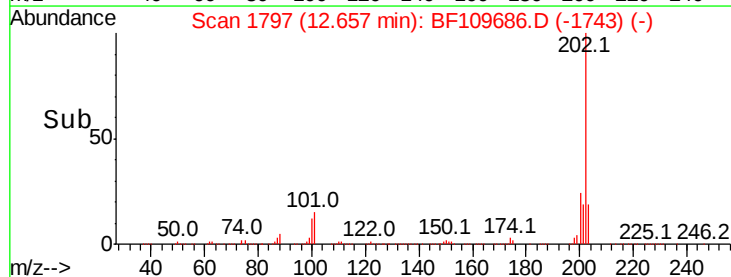
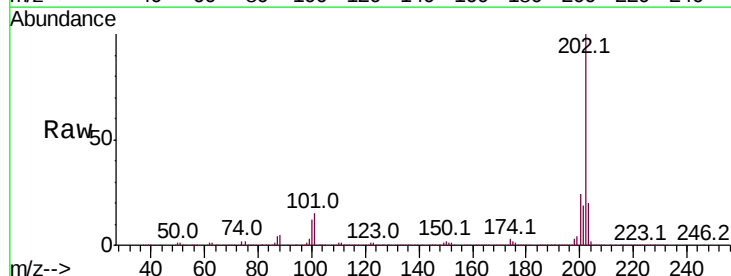
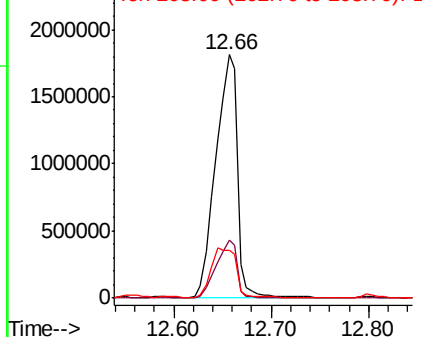
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2773176		
200	23.6	17.8	26.6	
203	19.6	14.2	21.4	

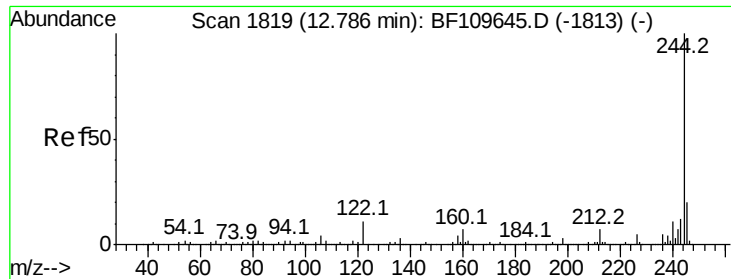
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





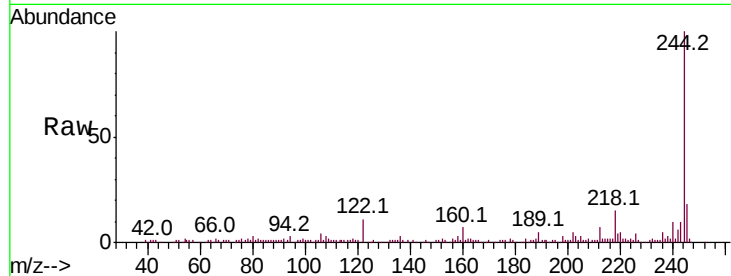
#78
 Terphenyl-d14
 Concen: 11.058 ng
 RT: 12.78 min Scan# 1818
 Delta R.T. -0.01 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.8
122	11.3	8.7	13.1

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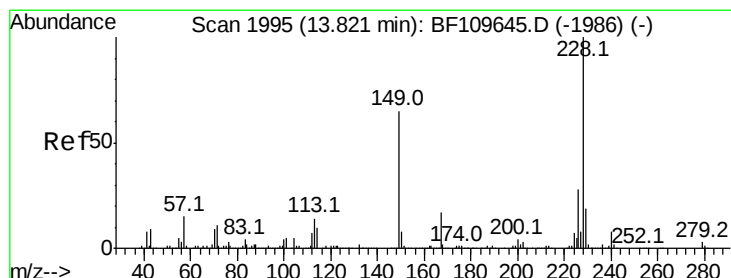
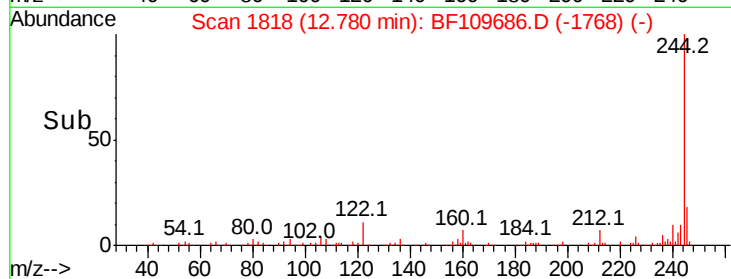
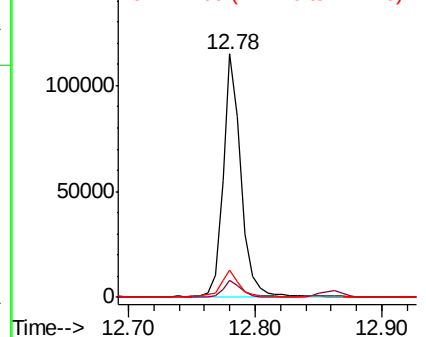


Abundance

Ion 244.00 (243.70 to 244.70): E

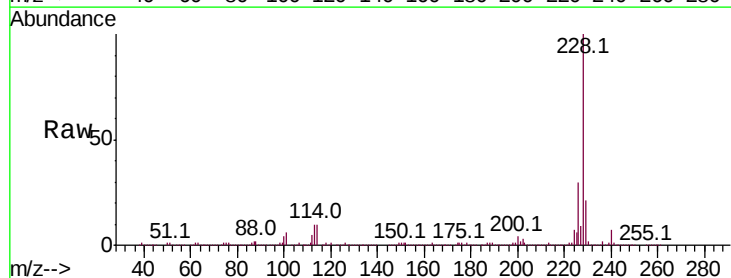
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80
 Benzo(a)anthracene
 Concen: 76.197 ng m
 RT: 13.83 min Scan# 1996
 Delta R.T. 0.01 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.1	33.1
229	20.6	15.6	23.4

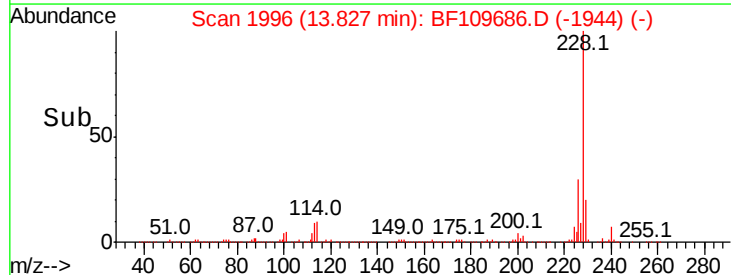
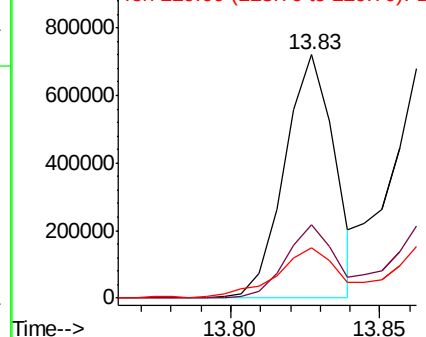


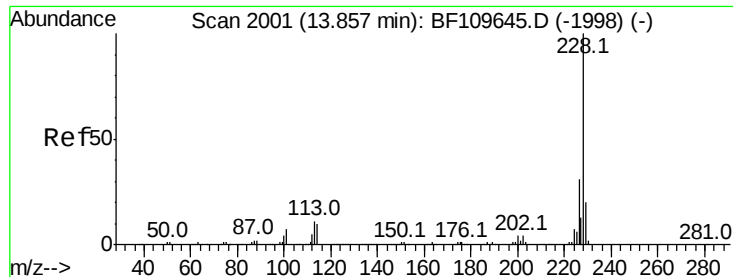
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 67.981 ng/mL

RT: 13.86 min Scan# 2002

Delta R.T. 0.01 min

Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

Instrument :

BNA_F

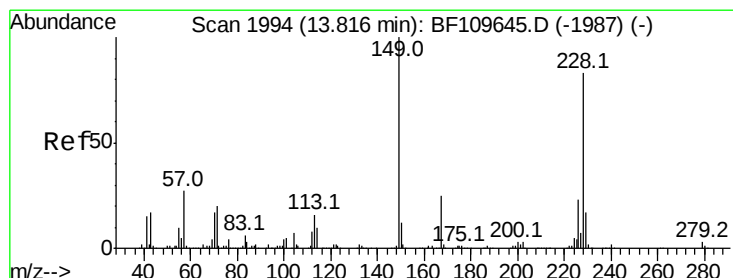
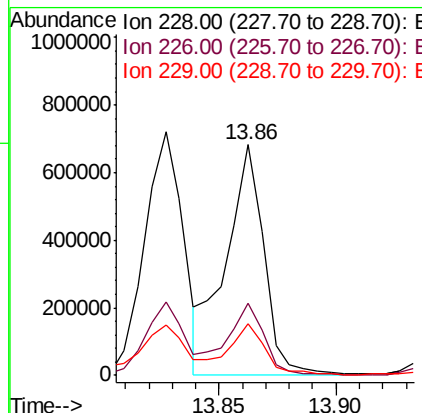
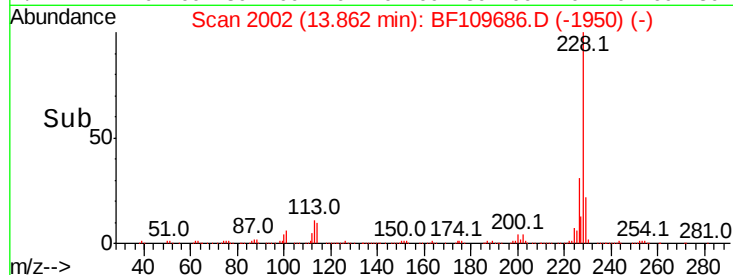
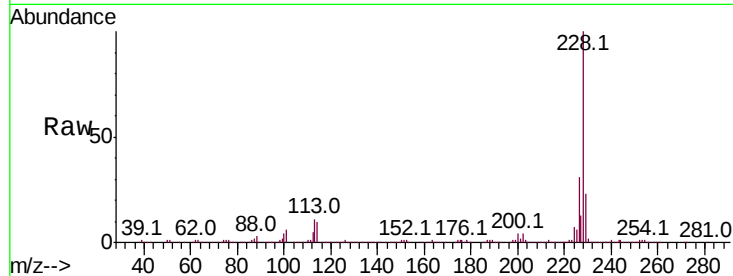
ClientSampleID :

331-SAND-SOILDL

Tot Ion:	228	Resp:	779775
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.7	37.1
229	22.6	15.9	23.9

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#83

Bis(2-ethylhexyl)phthalate

Concen: 2.118 ng

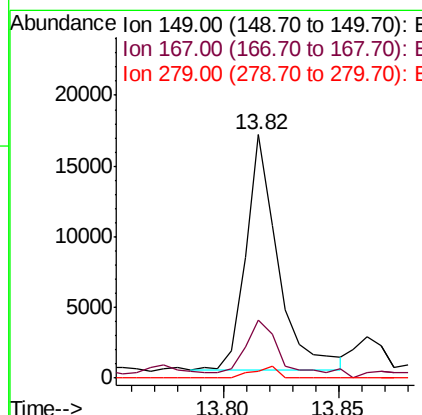
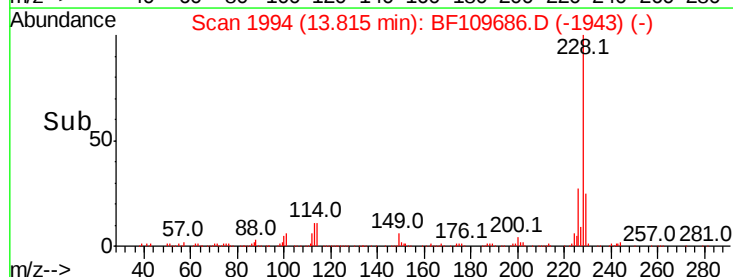
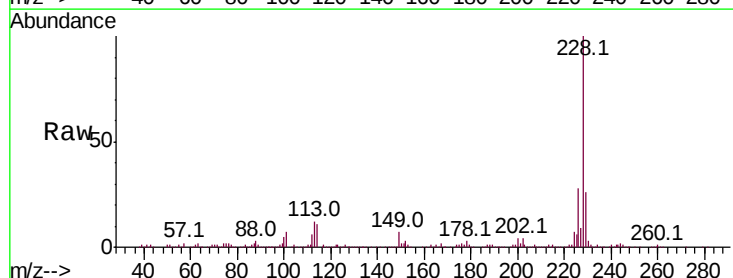
RT: 13.82 min Scan# 1994

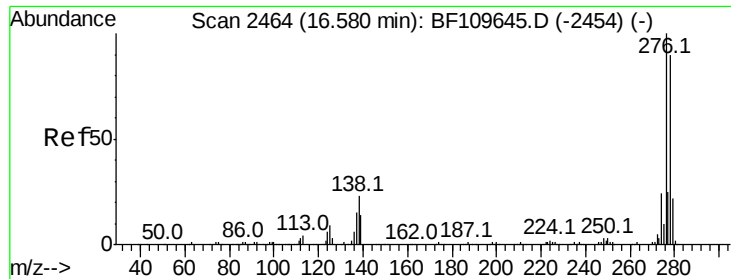
Delta R.T. -0.00 min

Lab File: BF109686.D

Acq: 9 Oct 2018 9:46

Tgt Ion:	149	Resp:	16246
Ion Ratio	Lower	Upper	
149	100		
167	24.0	19.8	29.8
279	3.0	2.7	4.1





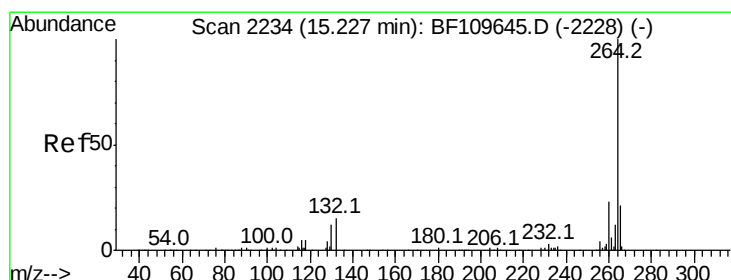
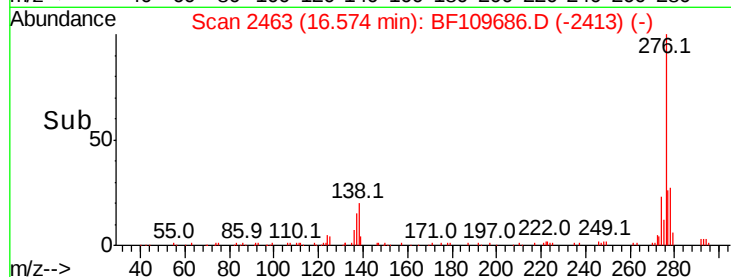
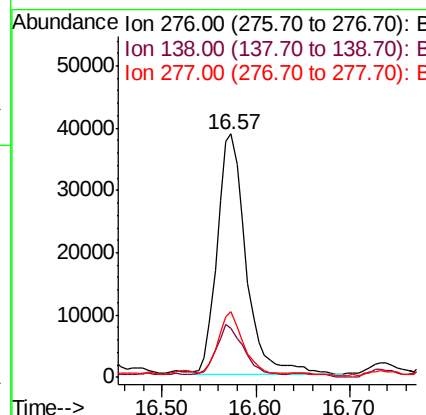
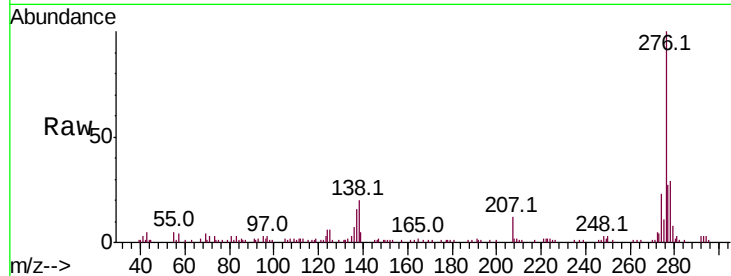
#85
Indeno(1,2,3-cd)pyrene
Concen: 10.199 ng
RT: 16.57 min Scan# 2463
Delta R.T. -0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Instrument :
BNA_F
ClientSampleID :
331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.3	18.5	27.7
277	23.3	20.0	30.0

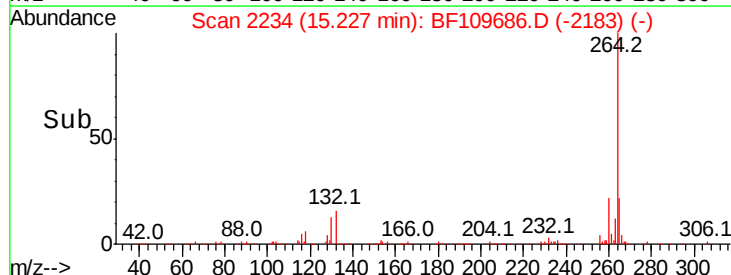
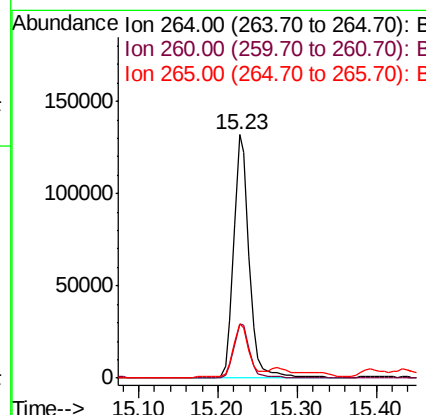
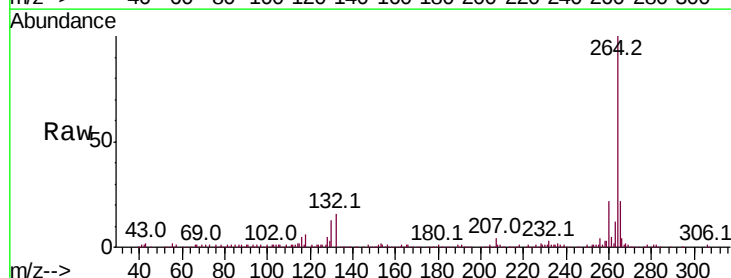
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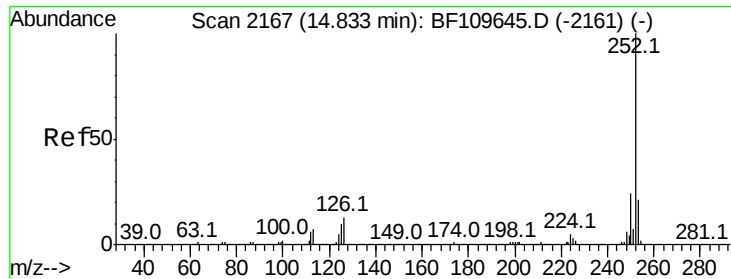
Sohil
10/9/2018 2:58:10 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2234
Delta R.T. -0.00 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.7	28.1
265	22.0	16.7	25.1





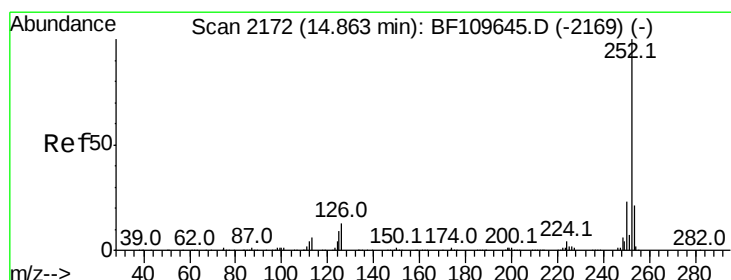
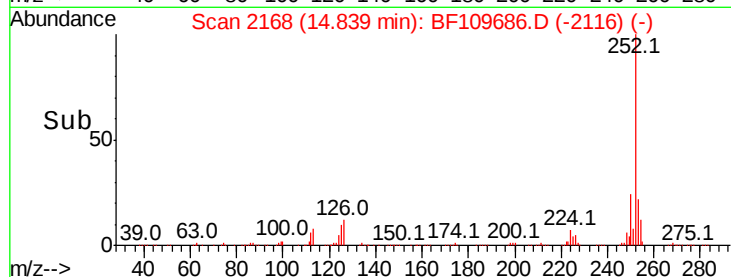
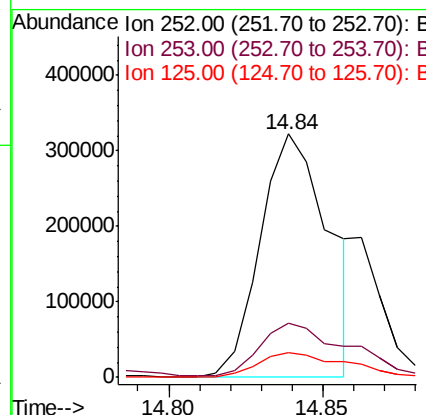
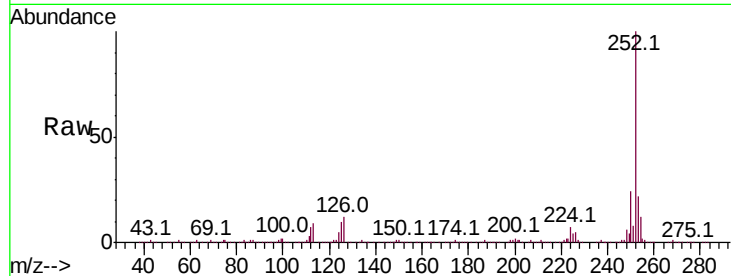
#87
Benzo(b)fluoranthene
Concen: 49.989 ng m
RT: 14.84 min Scan# 2168
Delta R.T. 0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.2	25.8
125	10.4	8.2	12.4

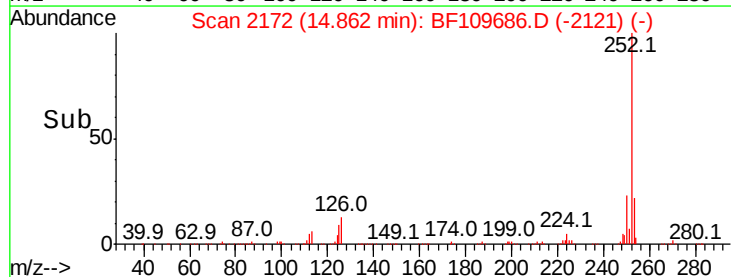
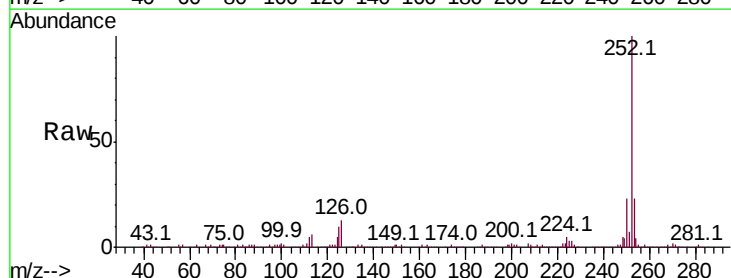
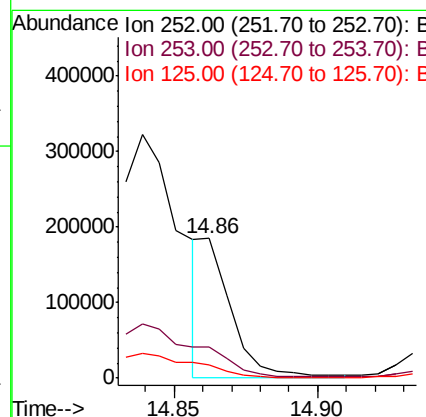
Manual Integrations
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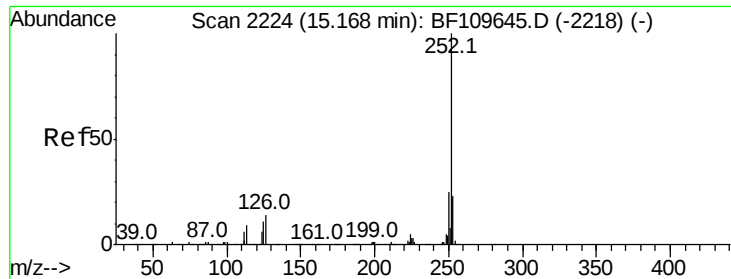
Sohil
10/9/2018 2:58:10 PM



#88
Benzo(k)fluoranthene
Concen: 13.346 ng m
RT: 14.86 min Scan# 2172
Delta R.T. -0.00 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.2	25.8
125	9.7	7.4	11.0





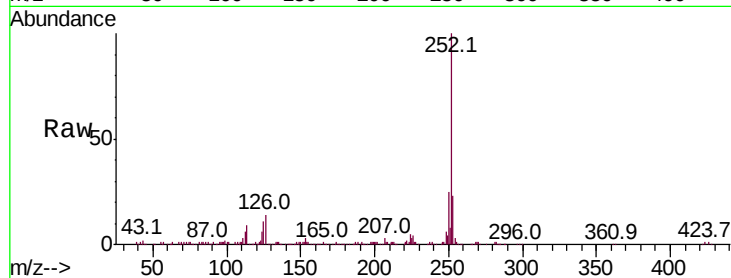
#89
Benzo(a)pyrene
Concen: 19.705 ng
RT: 15.17 min Scan# 2224
Delta R.T. -0.00 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

Instrument :
BNA_F
ClientSampleId :
331-SAND-SOILD

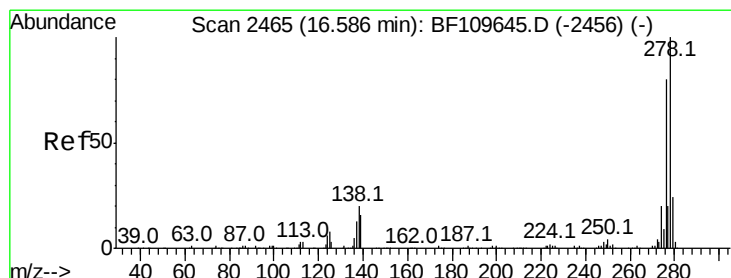
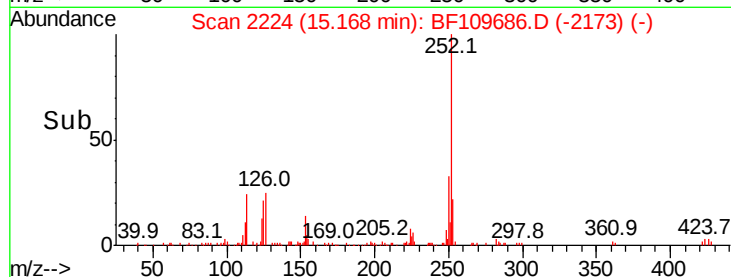
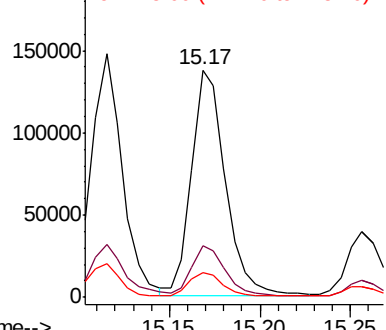
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	10.7	9.0	13.6

Manual Integrations
APPROVED

Sohil
10/9/2018 2:58:10 PM



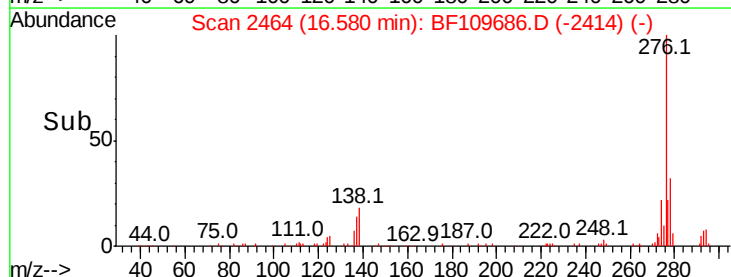
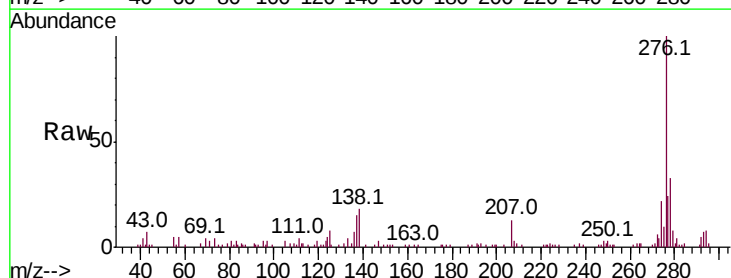
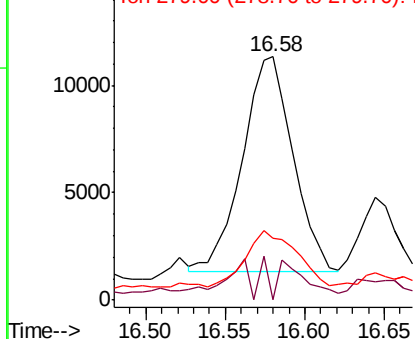
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

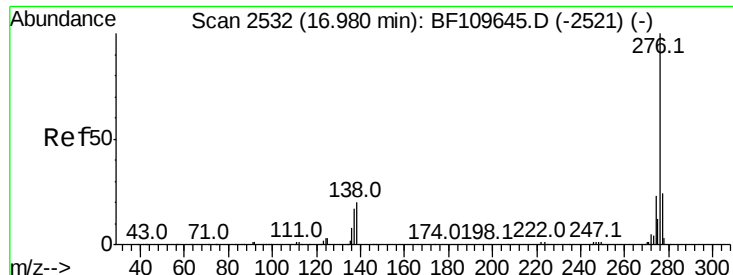


#90
Dibenzo(a,h)anthracene
Concen: 2.985 ng m
RT: 16.58 min Scan# 2464
Delta R.T. -0.01 min
Lab File: BF109686.D
Acq: 9 Oct 2018 9:46

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

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 8.631 ng
 RT: 16.97 min Scan# 2531
 Delta R.T. -0.01 min
 Lab File: BF109686.D
 Acq: 9 Oct 2018 9:46

Instrument :
 BNA_F
 ClientSampleId :
 331-SAND-SOILDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.9	18.8	28.2
138	22.5	16.0	24.0

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