

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
 Data File : BF101297.D
 Acq On : 11 Dec 2017 18:43
 Operator : SJ/JU
 Sample : I6813-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Soil-Cuttings

Manual Integrations
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Quant Time: Dec 12 01:20:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 08 18:17:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	43129	20.00	ng	0.01
21) Naphthalene-d8	8.12	136	169481	20.00	ng	0.00
38) Acenaphthene-d10	9.87	164	73841	20.00	ng	0.00
63) Phenanthrene-d10	11.36	188	116734	20.00	ng	0.00
75) Chrysene-d12	14.02	240	90442	20.00	ng	0.02
86) Perylene-d12	15.50	264	76529	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	306118	117.29	ng	0.02
7) Phenol-d6	6.47	99	370080	116.79	ng	0.01
23) Nitrobenzene-d5	7.40	82	218005	76.73	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	72603	81.85	ng	0.00
44) 2-Fluorobiphenyl	9.19	172	421930	78.18	ng	0.00
78) Terphenyl-d14	12.95	244	279863	67.68	ng	0.01
Target Compounds						
10) Phenol	6.48	94	12509	3.550	ng	Qvalue # 57
31) Naphthalene	8.13	128	29882	3.577	ng	99
37) 2-Methylnaphthalene	8.83	142	15899	2.801	ng	99
48) Acenaphthylene	9.73	152	179690	22.757	ng	100
49) Dimethylphthalate	9.58	163	29149	4.895	ng	98
70) Phenanthrene	11.39	178	227800	35.436	ng	98
71) Anthracene	11.44	178	86769	13.336	ng	98
74) Fluoranthene	12.59	202	263472	36.974	ng	95
77) Pyrene	12.82	202	558316	89.463	ng	98
79) Butylbenzylphthalate	13.42	149	48296	17.553	ng	# 87
80) Benzo(a)anthracene	14.01	228	197822m	34.643	ng	
82) Chrysene	14.04	228	206233m	38.888	ng	
85) Indeno(1,2,3-cd)pyrene	16.99	276	94379	20.017	ng	# 87
87) Benzo(b)fluoranthene	15.07	252	204715m	44.660	ng	
88) Benzo(k)fluoranthene	15.09	252	54314m	12.027	ng	
89) Benzo(a)pyrene	15.44	252	189603	45.497	ng	99
90) Dibenzo(a,h)anthracene	16.99	278	25336m	6.896	ng	
91) Benzo(g,h,i)perylene	17.45	276	125231m	36.170	ng	

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

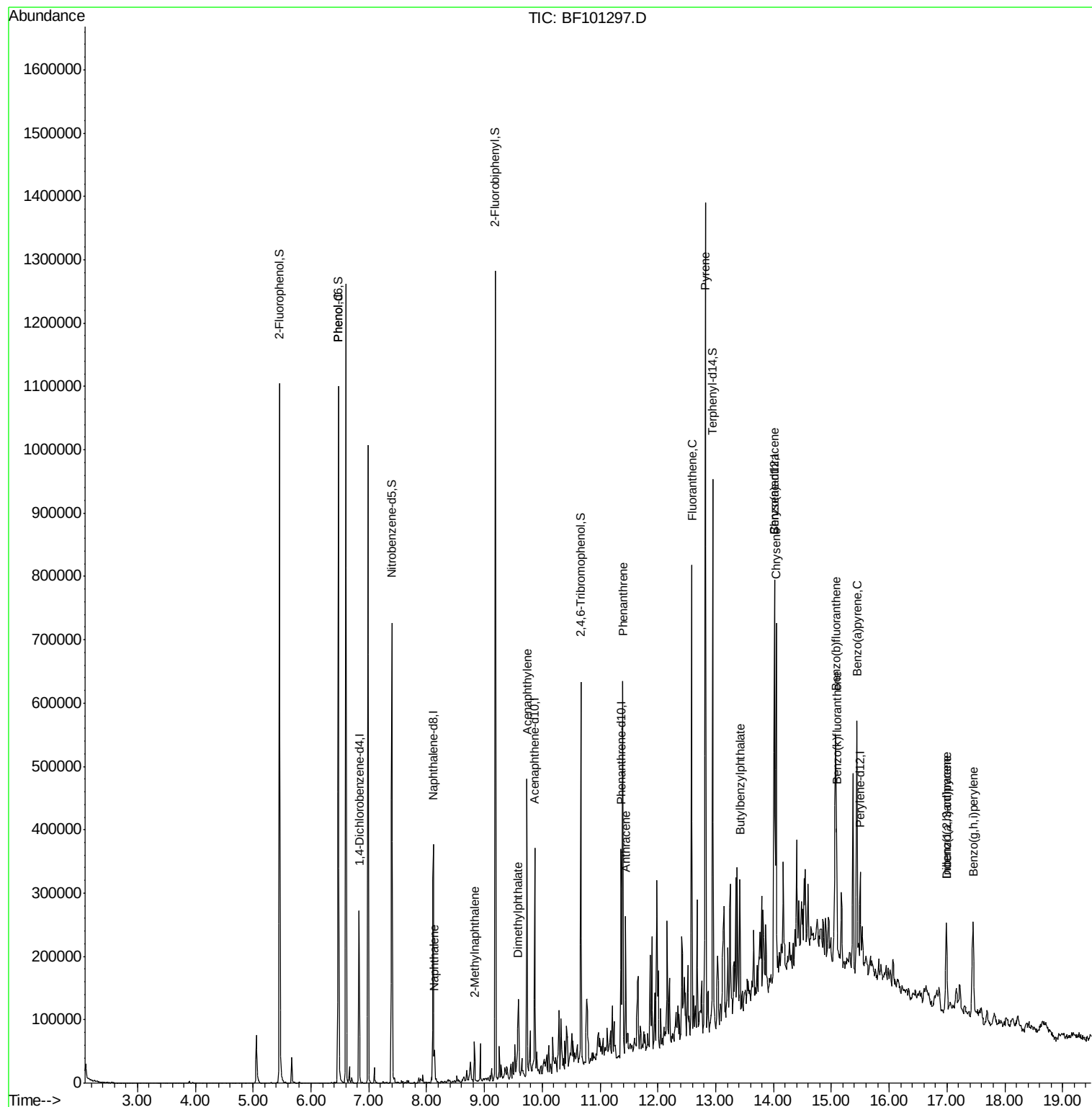
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
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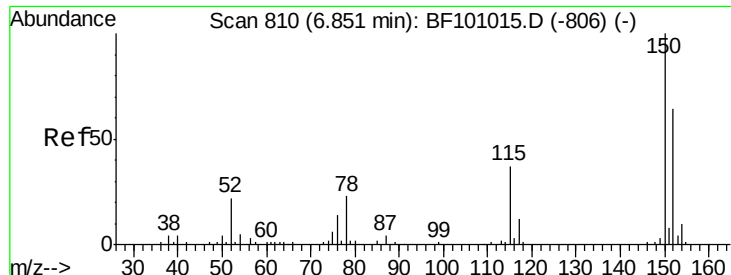
Instrument :
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Soil-Cuttings

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#1

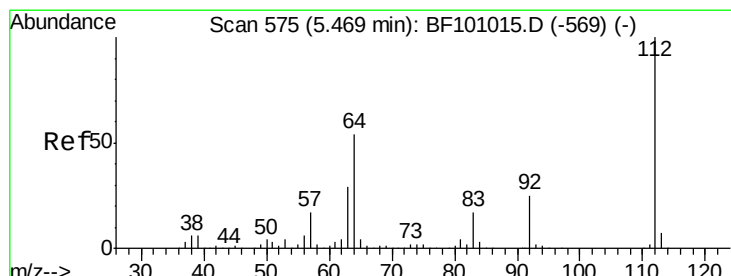
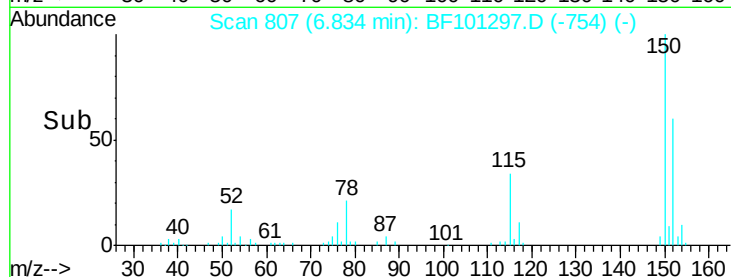
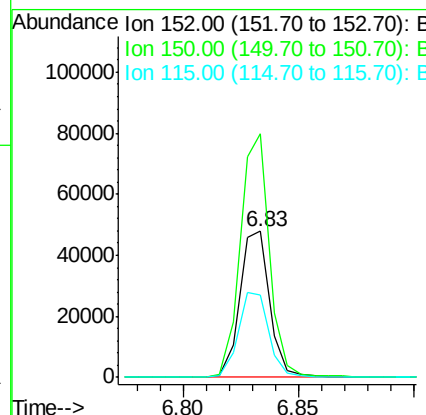
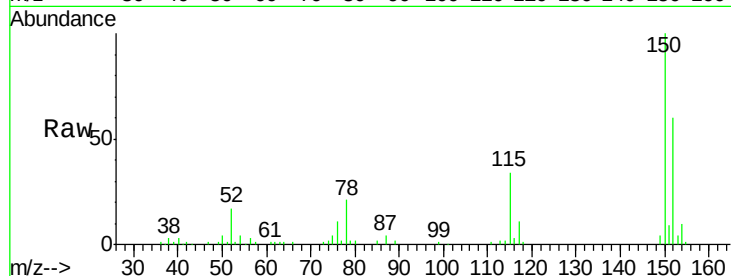
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampled :
Soil-Cuttings

Tot Ion	Ratio	Lower	Upper
152	100		
150	166.5	124.6	186.8
115	56.2	50.1	75.1

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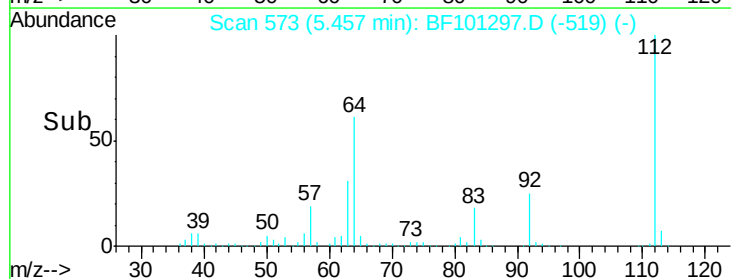
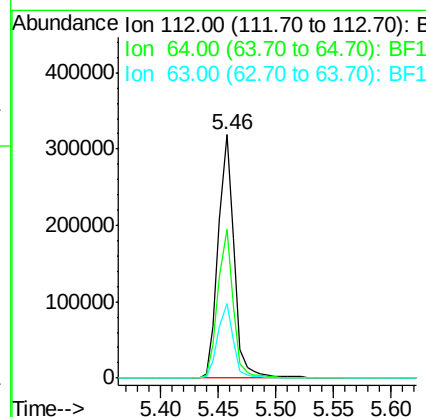
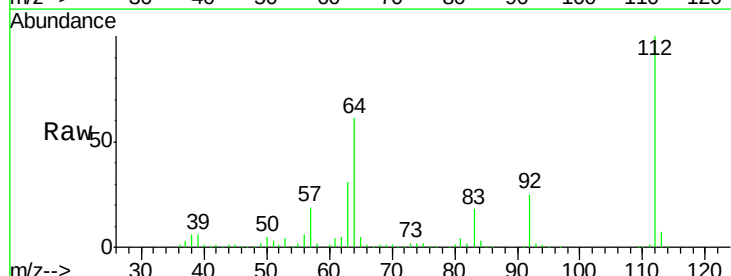
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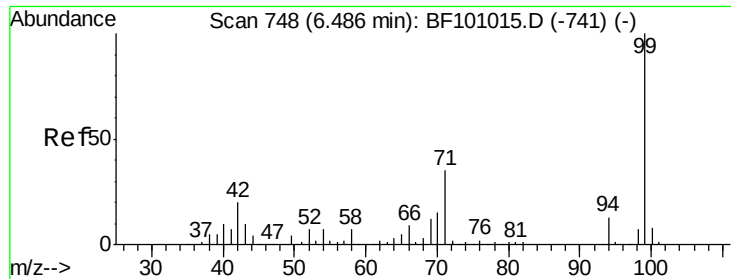


#5

2-Fluorophenol
Concen: 117.286 ng
RT: 5.46 min Scan# 573
Delta R.T. 0.02 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.2	47.9	71.9
63	30.8	23.7	35.5





#7

Phenol-d6

Concen: 116.788 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.01 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Instrument :

BNA_F

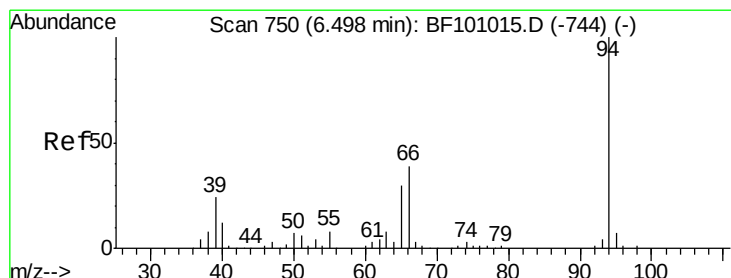
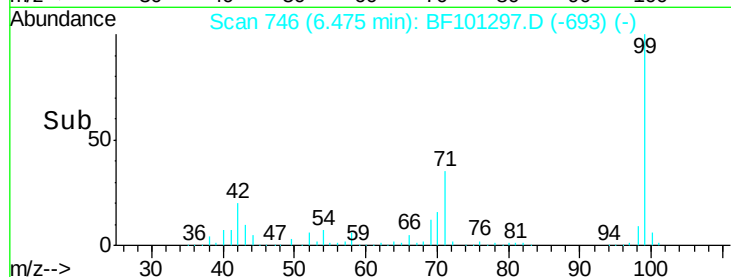
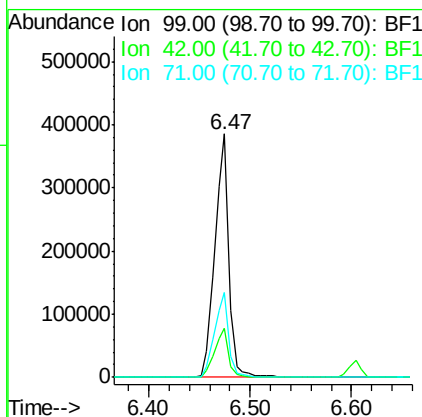
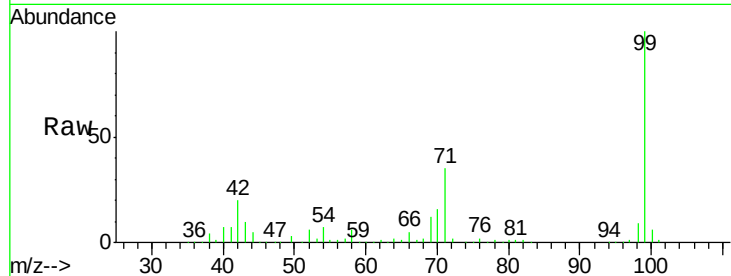
ClientSampled :

Soil-Cuttings

Tot Ion:	99	Resp:	370080
Ion Ratio	Lower	Upper	
99	100		
42	20.3	14.5	21.7
71	35.1	25.4	38.0

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#10

Phenol

Concen: 3.550 ng

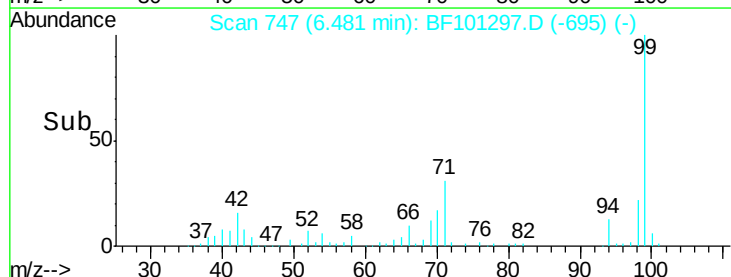
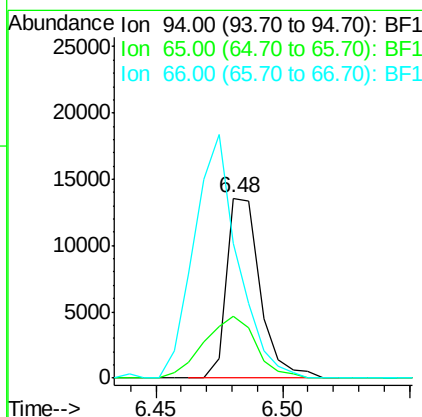
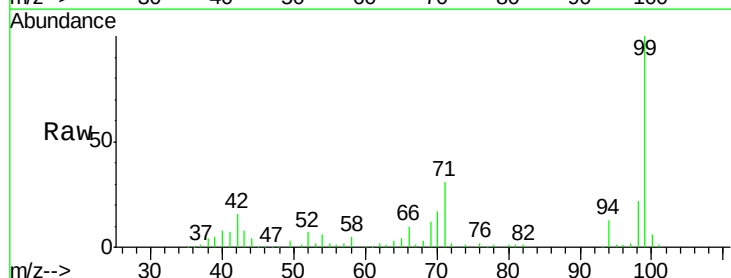
RT: 6.48 min Scan# 747

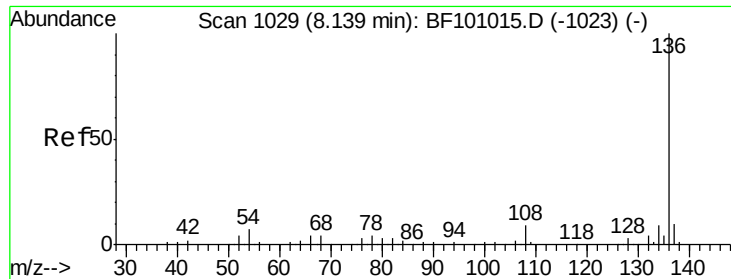
Delta R.T. 0.01 min

Lab File: BF101297.D

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Tgt Ion:	94	Resp:	12509
Ion Ratio	Lower	Upper	
94	100		
65	34.3	7.9	47.9
66	75.1	16.2	56.2





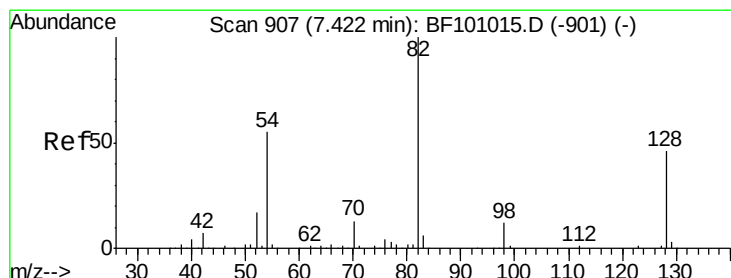
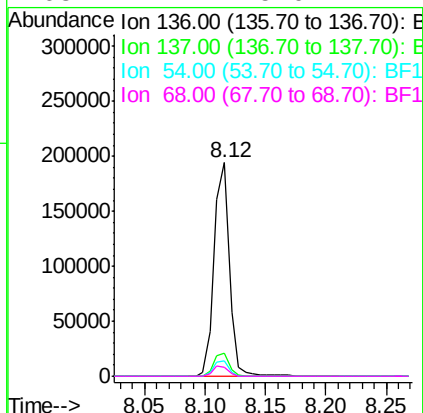
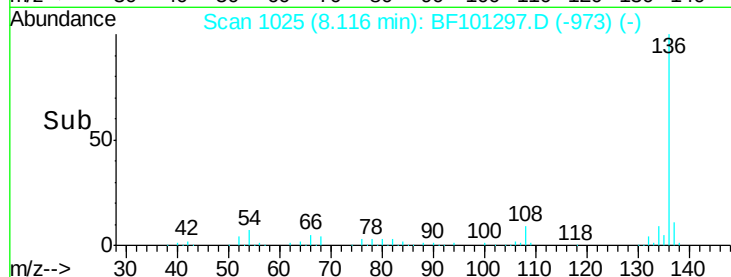
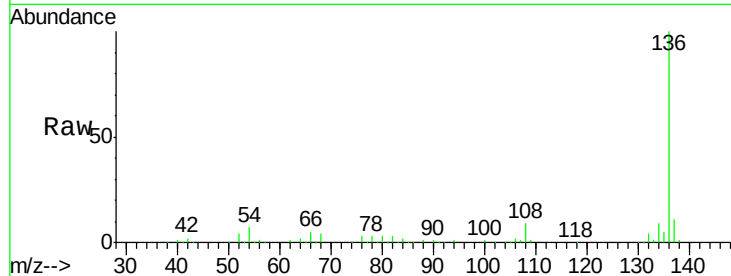
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1025
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

Tot Ion	Ratio	Resp	Lower	Upper
136	100	169481		
137	11.0	8.9	13.3	
54	7.0	6.6	9.8	
68	4.2	5.0	7.4#	

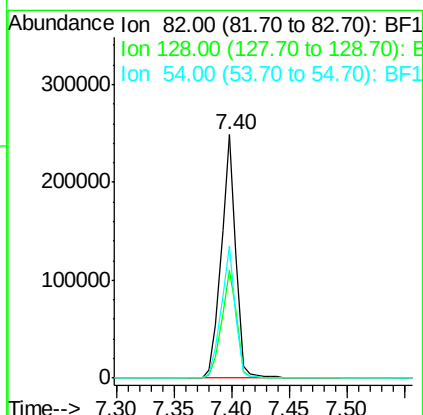
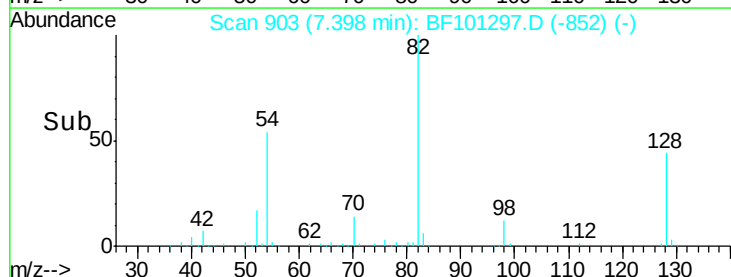
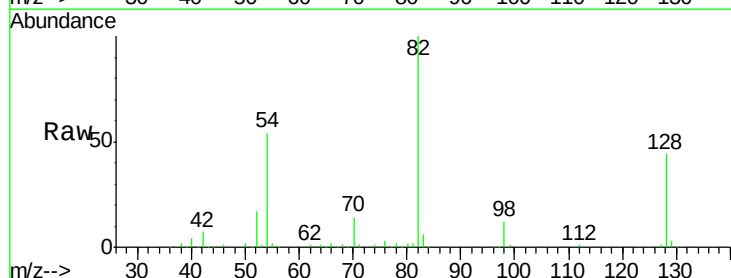
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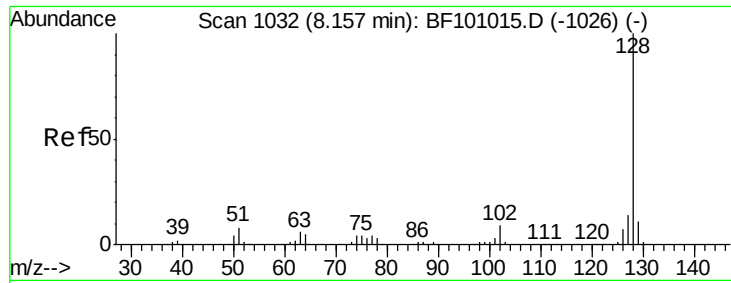
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#23
Nitrobenzene-d5
Concen: 76.732 ng
RT: 7.40 min Scan# 903
Delta R.T. 0.00 min
Lab File: BF101297.D
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Tgt Ion	Ratio	Resp	Lower	Upper
82	100	218005		
128	44.4	36.1	54.1	
54	54.2	41.4	62.2	





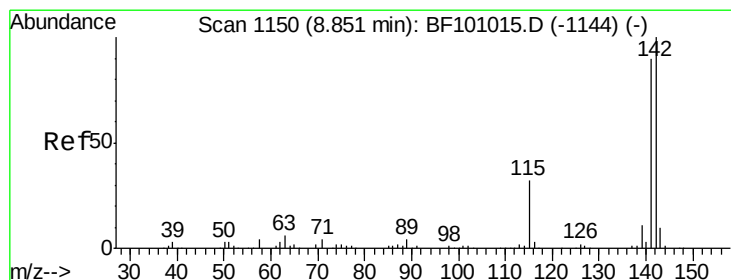
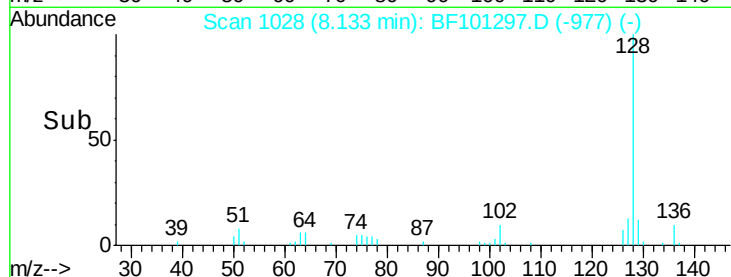
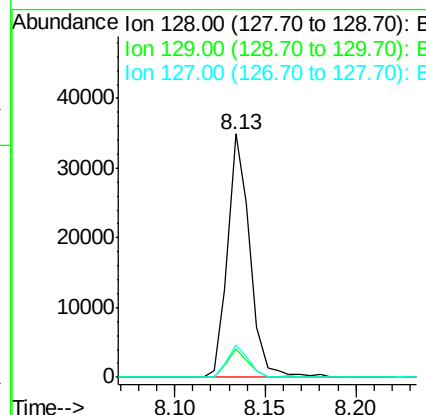
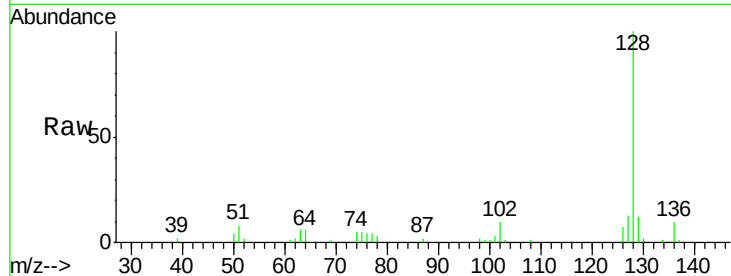
#31
Naphthalene
Concen: 3.577 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.00 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	13.3	10.9	16.3

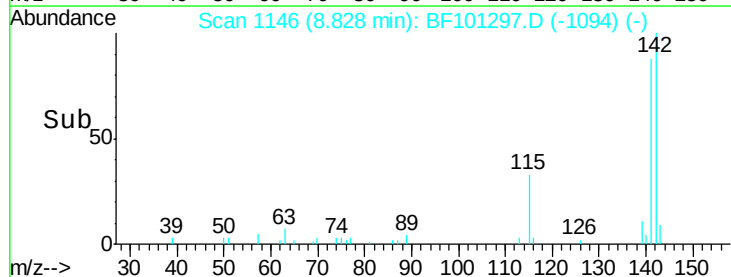
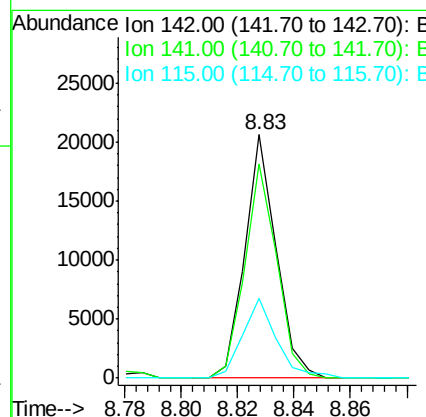
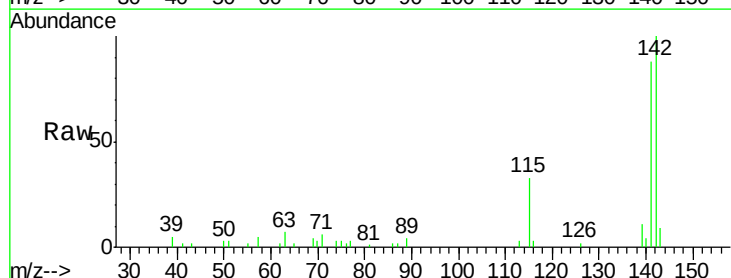
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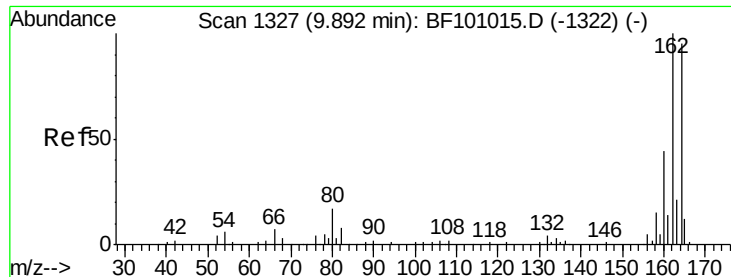
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#37
2-Methylnaphthalene
Concen: 2.801 ng
RT: 8.83 min Scan# 1146
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.8	106.2
115	32.6	26.1	39.1





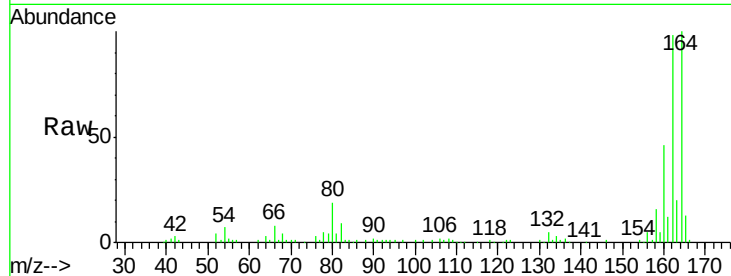
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. 0.00 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

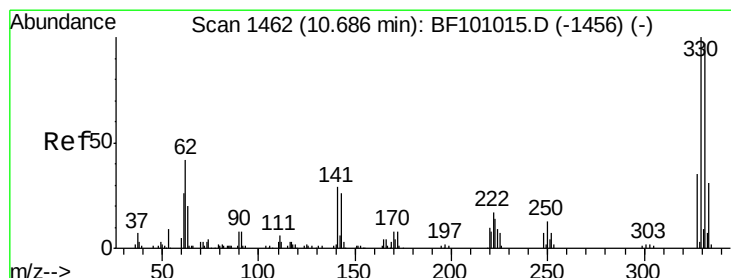
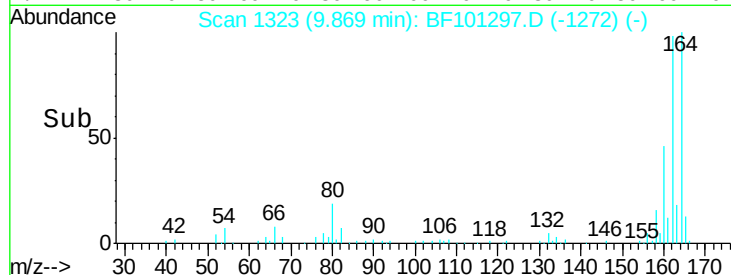
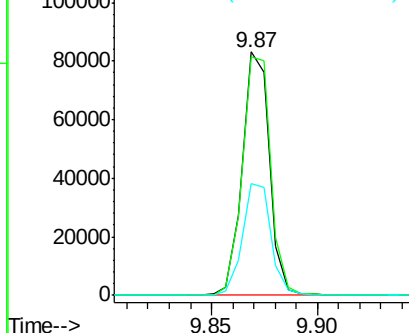
Tot Ion	Ratio	Lower	Upper
164	100		
162	98.0	86.1	129.1
160	46.0	38.3	57.5

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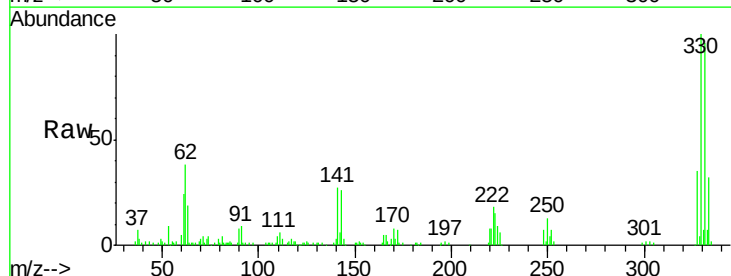


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

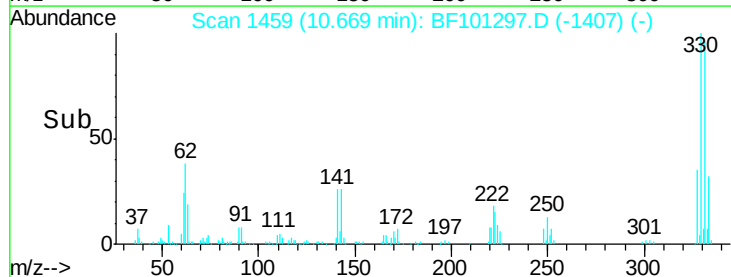
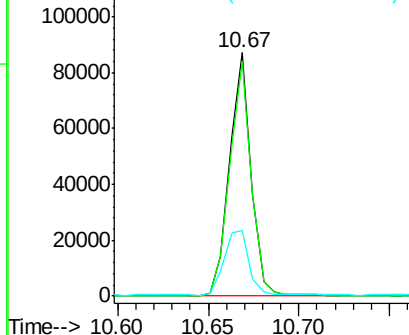


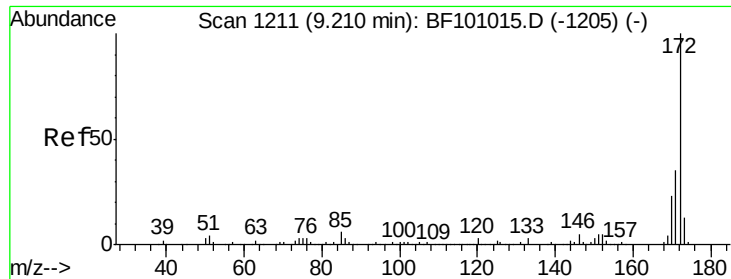
#41
2,4,6-Tribromophenol
Concen: 81.849 ng
RT: 10.67 min Scan# 1459
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.6
141	31.1	29.9	44.9



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





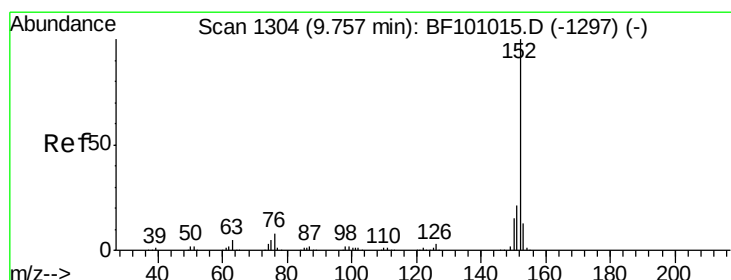
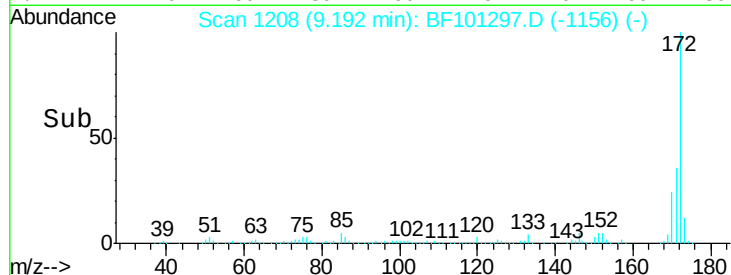
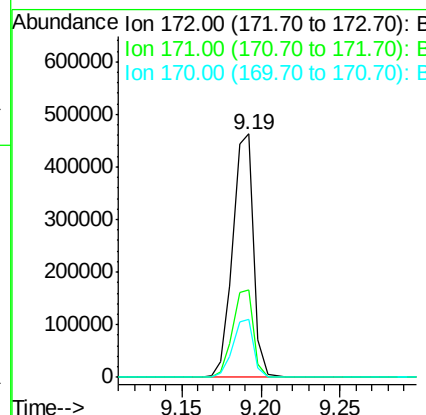
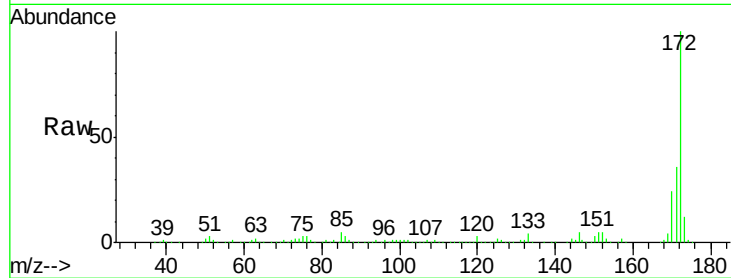
#44
2-Fluorobiphenyl
Concen: 78.179 ng
RT: 9.19 min Scan# 1208
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

Tot Ion	Ratio	Resp	Lower	Upper
172	100	421930		
171	35.9		29.7	44.5
170	23.7		19.6	29.4

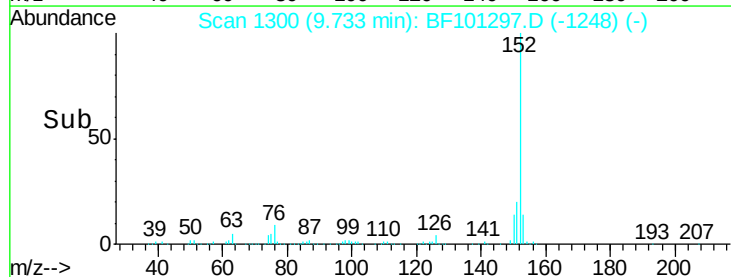
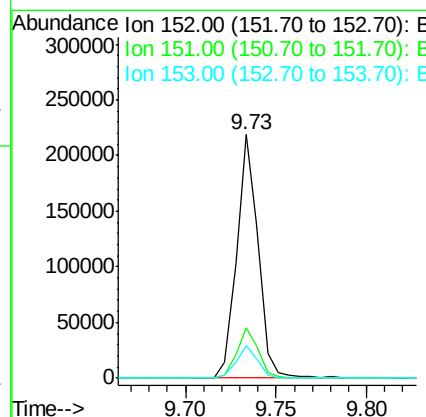
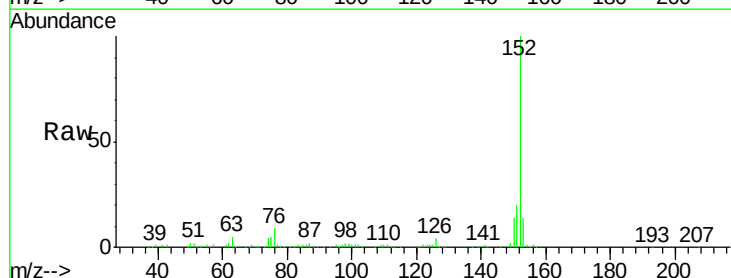
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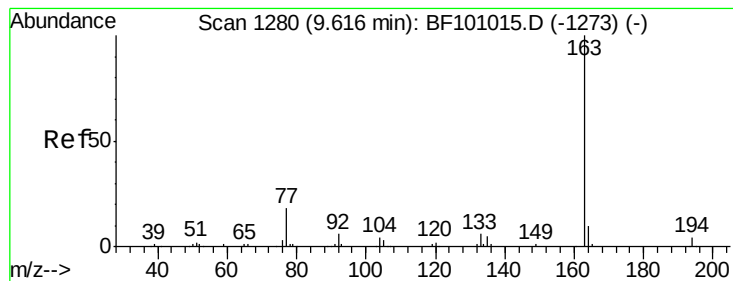
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#48
Acenaphthylene
Concen: 22.757 ng
RT: 9.73 min Scan# 1300
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	179690		
151	20.5		16.3	24.5
153	13.6		10.7	16.1





#49

Dimethylphthalate

Concen: 4.895 ng

RT: 9.58 min Scan# 1274

Delta R.T. -0.01 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Instrument :

BNA_F

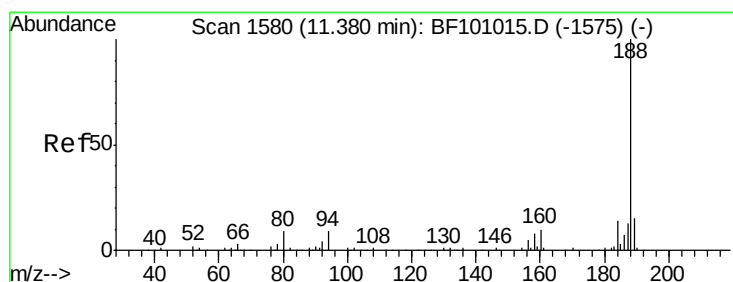
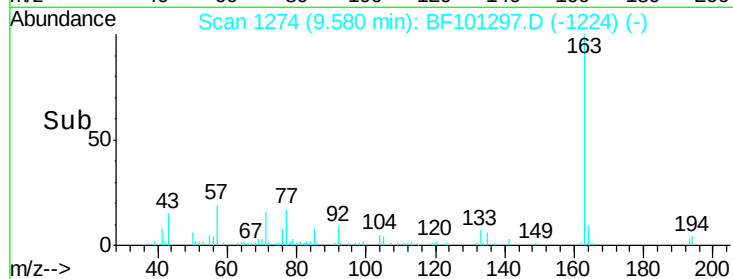
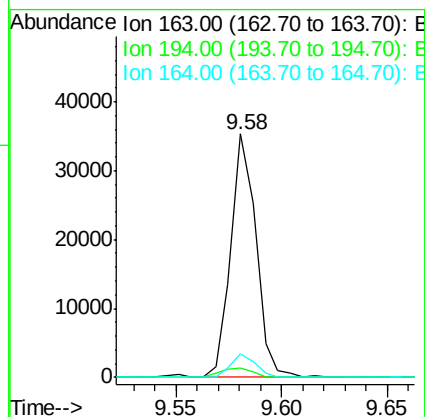
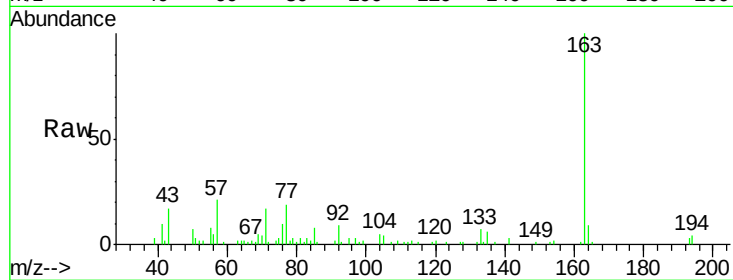
ClientSampleId :

Soil-Cuttings

Tot Ion:	163	Resp:	29149
Ion Ratio	Lower	Upper	
163	100		
194	4.0	2.7	4.1
164	9.5	8.2	12.2

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#63

Phenanthrene-d10

Concen: 20.000 ng

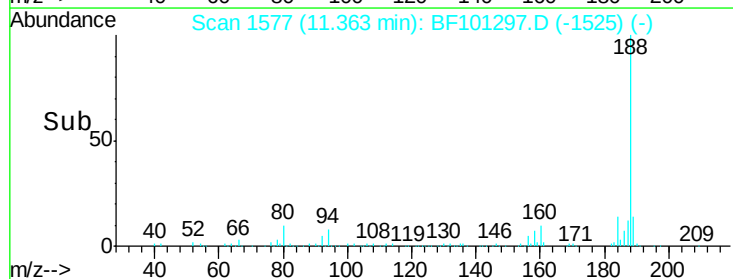
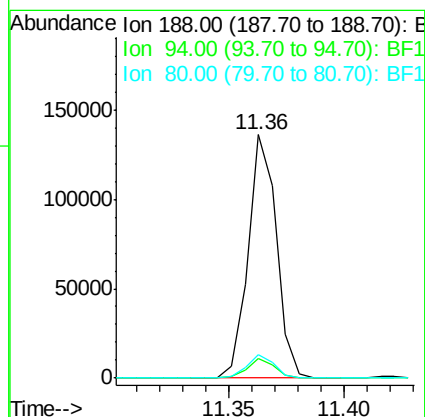
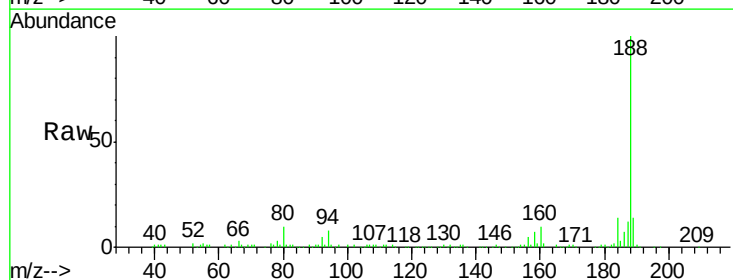
RT: 11.36 min Scan# 1577

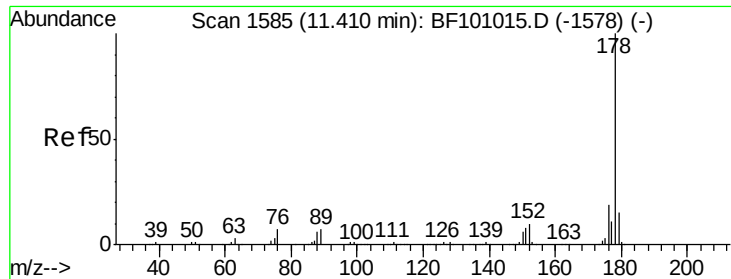
Delta R.T. 0.01 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Tgt Ion:	188	Resp:	116734
Ion Ratio	Lower	Upper	
188	100		
94	8.0	8.5	12.7#
80	9.8	9.2	13.8





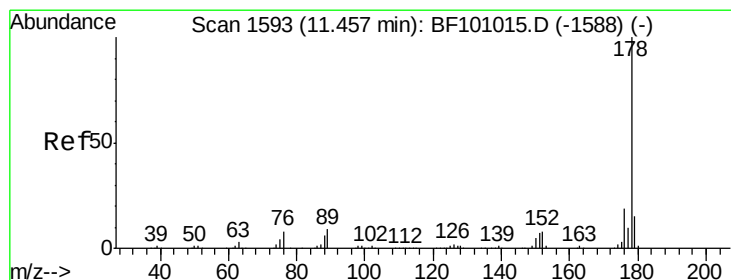
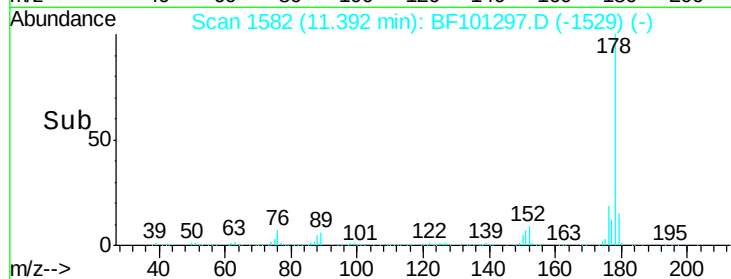
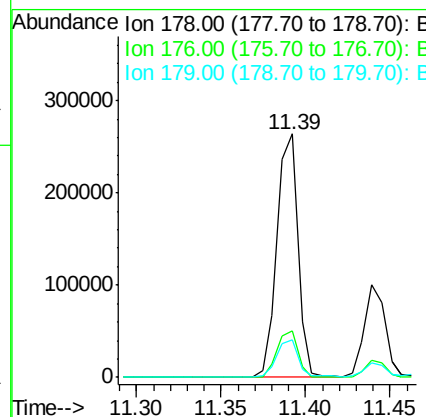
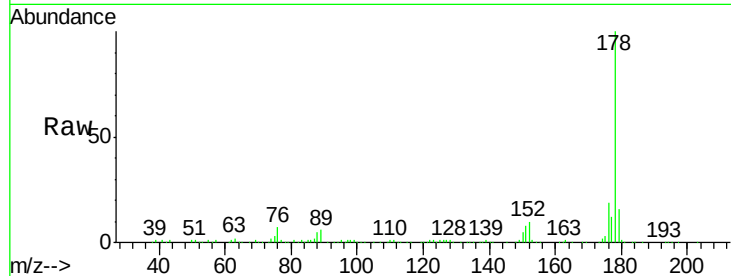
#70
Phenanthrene
Concen: 35.436 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	15.6	13.0	19.6

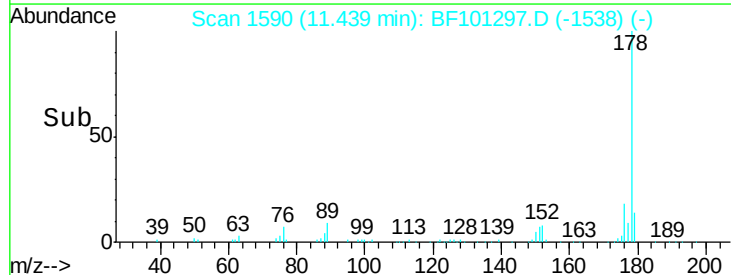
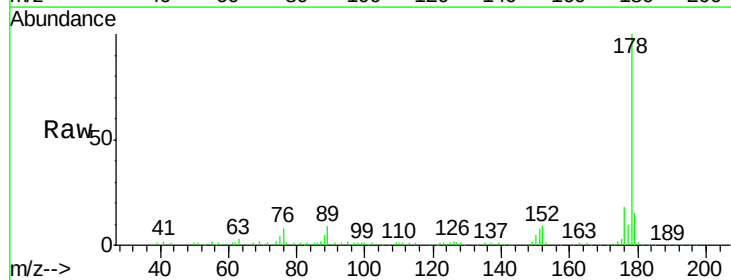
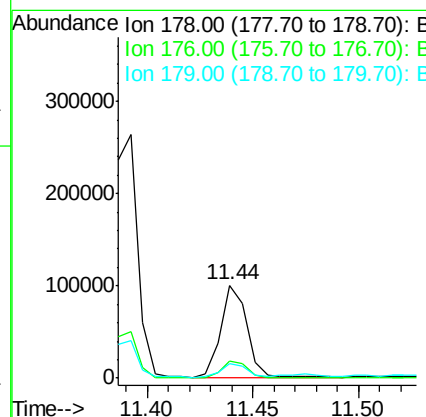
Manual Integrations
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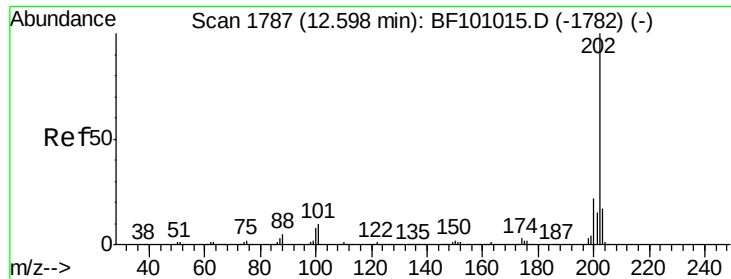
Sohil
12/12/2017 3:59:15 PM



#71
Anthracene
Concen: 13.336 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.4	23.2
179	15.4	12.6	19.0





#74

Fluoranthene

Concen: 36.974 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.02 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Instrument :

BNA_F

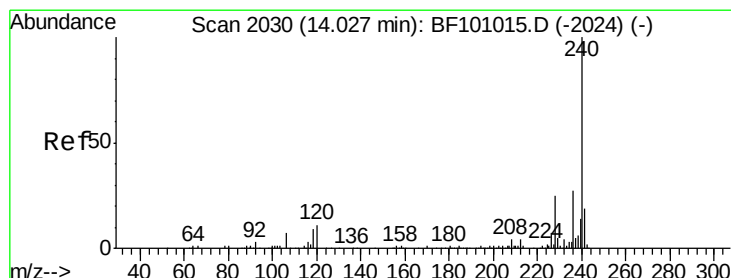
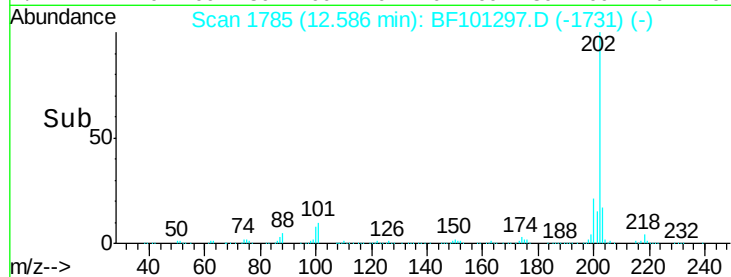
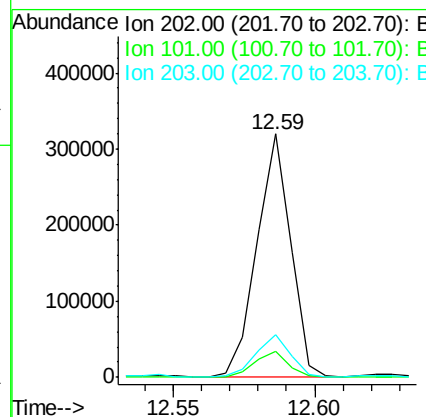
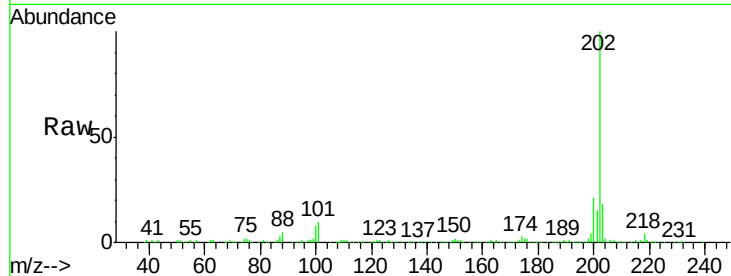
ClientSampleId :

Soil-Cuttings

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.5	0.0	34.1
203	17.5	0.0	38.1

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#75

Chrysene-d12

Concen: 20.000 ng

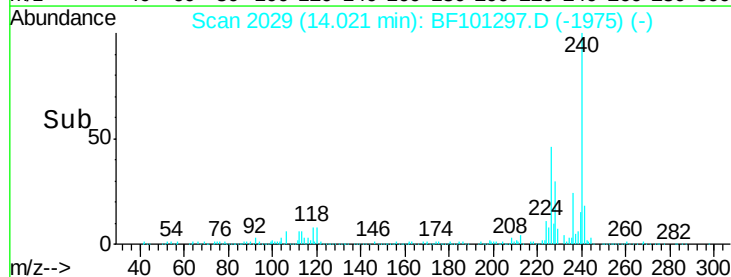
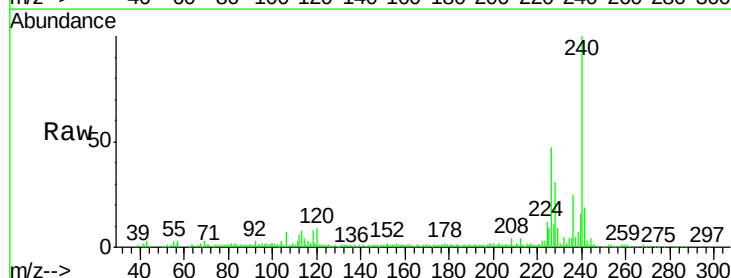
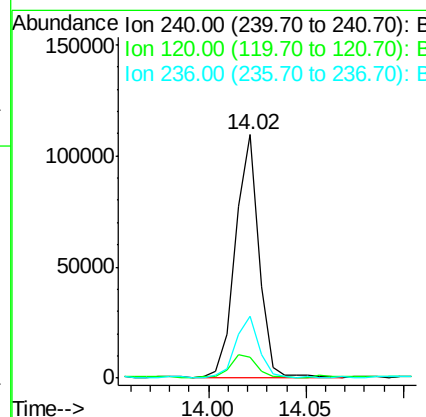
RT: 14.02 min Scan# 2029

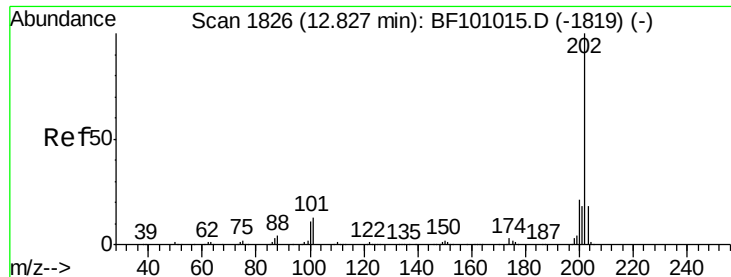
Delta R.T. 0.02 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	8.8	9.5	14.3#
236	25.5	20.7	31.1





#77

Pvrene

Concen: 89.463 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.02 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Instrument :

BNA_F

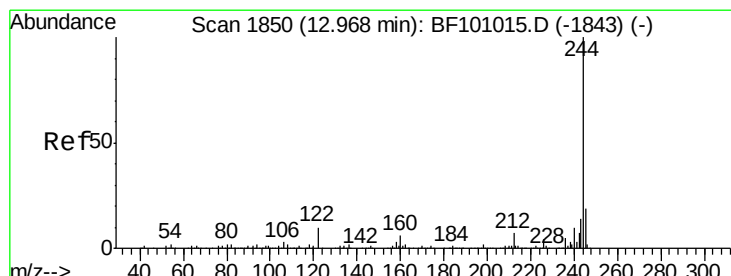
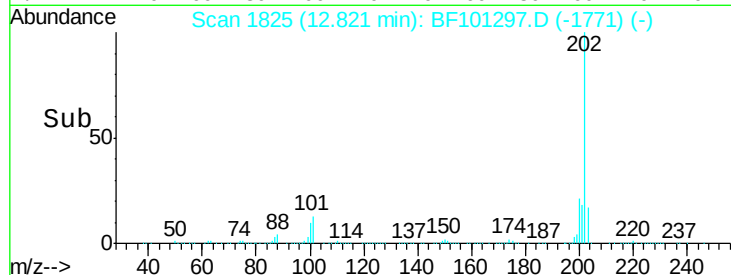
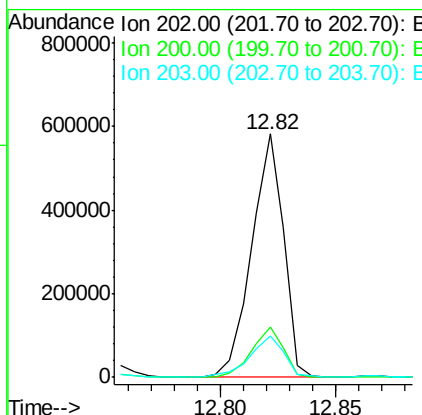
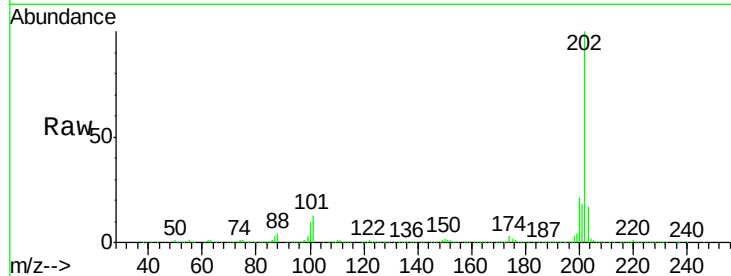
ClientSampleId :

Soil-Cuttings

Tot Ion:	202	Resp:	558316
Ion Ratio		Lower	Upper
202	100		
200	20.8	17.4	26.2
203	17.0	14.3	21.5

Manual Integrations
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#78

Terphenyl-d14

Concen: 67.682 ng

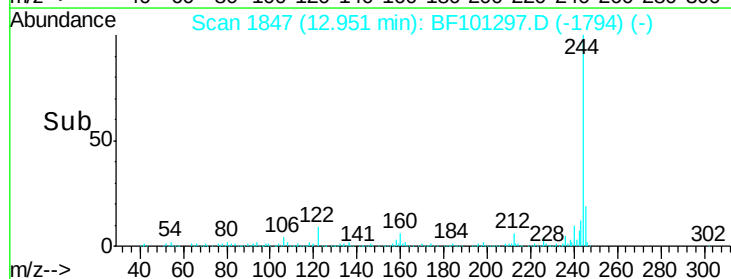
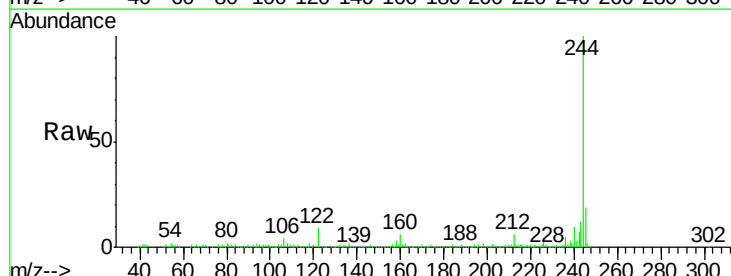
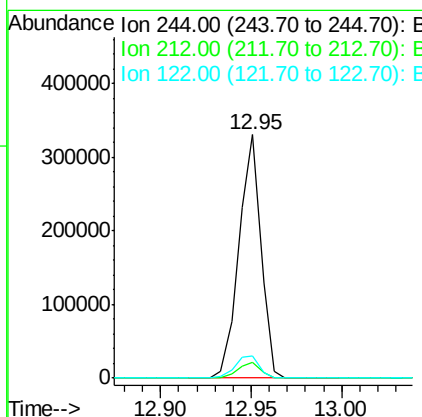
RT: 12.95 min Scan# 1847

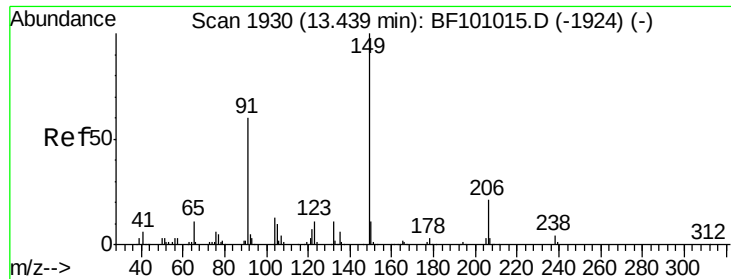
Delta R.T. 0.01 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Tgt Ion:	244	Resp:	279863
Ion Ratio		Lower	Upper
244	100		
212	6.4	5.4	8.0
122	9.2	11.0	16.4#





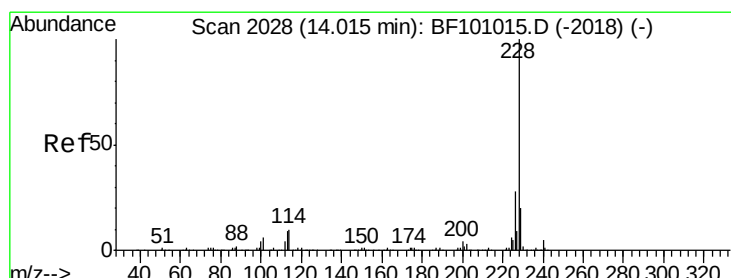
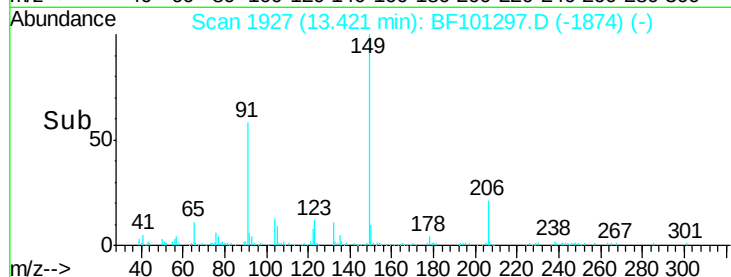
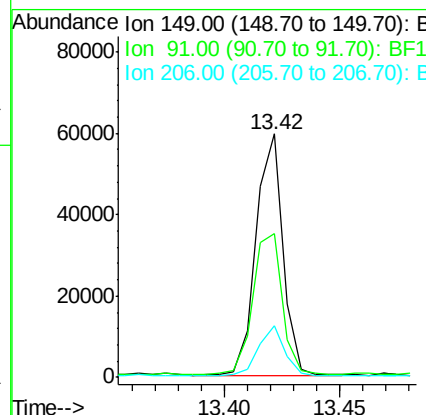
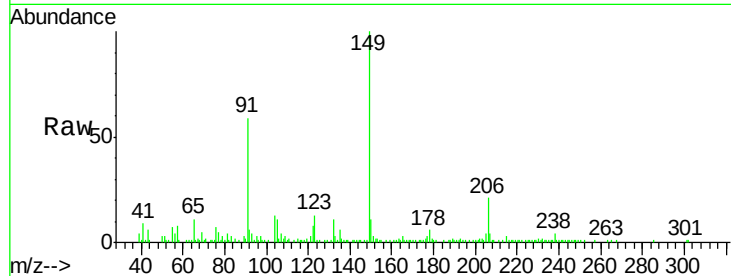
#79
Butylbenzylphthalate
Concen: 17.553 ng
RT: 13.42 min Scan# 1927
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

Tot Ion	Ratio	Lower	Upper
149	100		
91	58.9	56.8	85.2
206	21.3	14.1	21.1

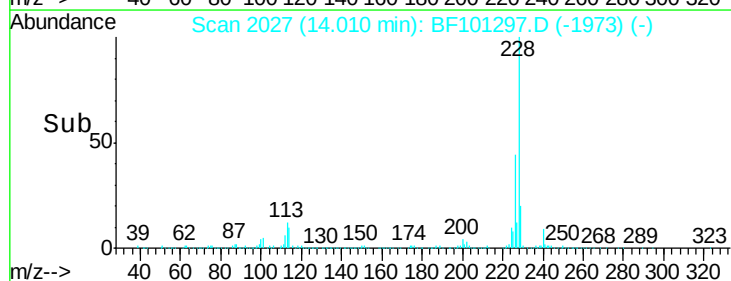
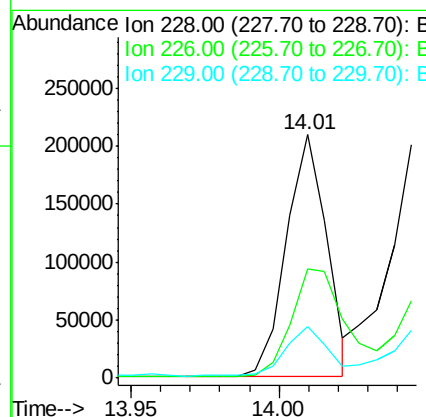
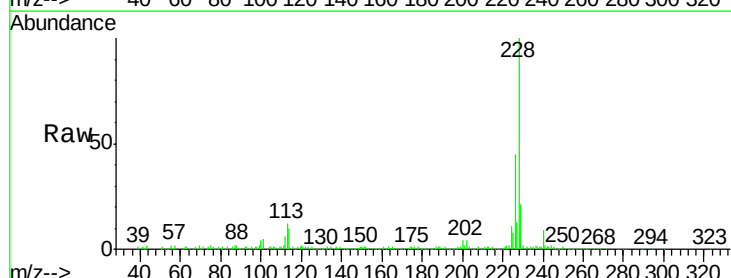
Manual Integrations
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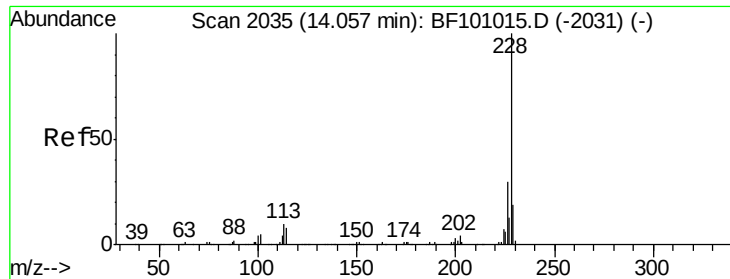
Sohil
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#80
Benzo(a)anthracene
Concen: 34.643 ng m
RT: 14.01 min Scan# 2027
Delta R.T. 0.02 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	44.7	22.6	33.8
229	21.1	15.8	23.6





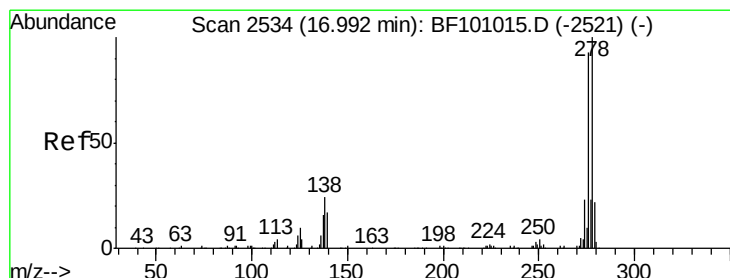
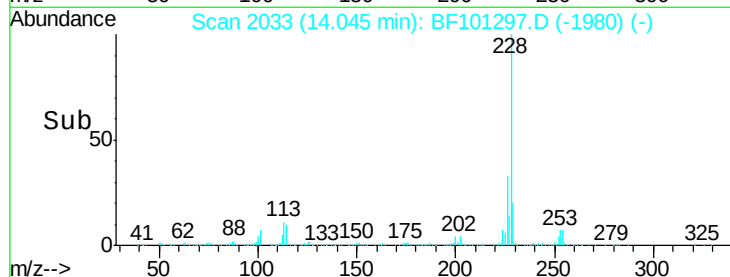
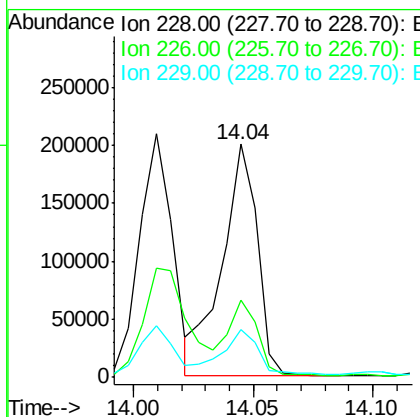
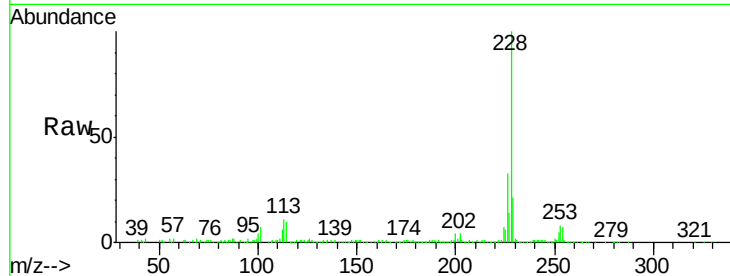
#82
Chrysene
Concen: 38.888 ng m
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampled :
Soil-Cuttings

Tot Ion	Ratio	Lower	Upper
228	100		
226	33.2	25.0	37.6
229	20.7	16.2	24.4

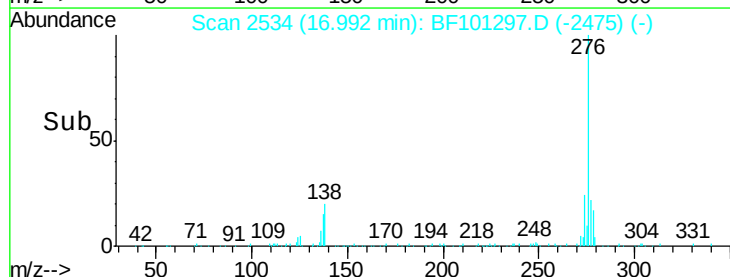
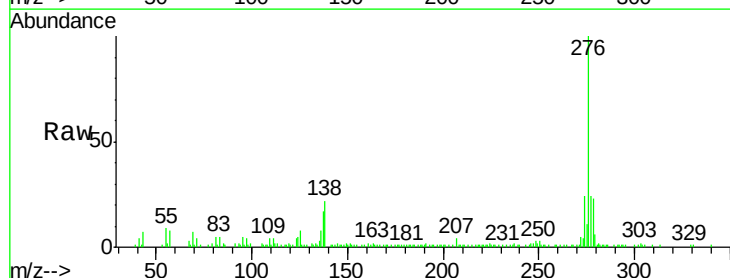
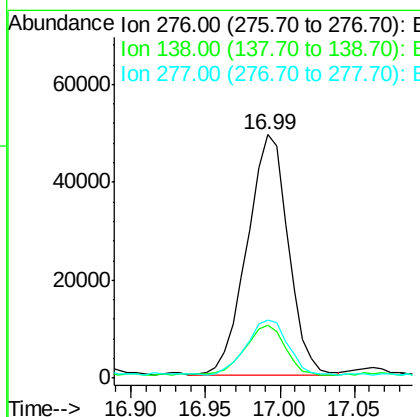
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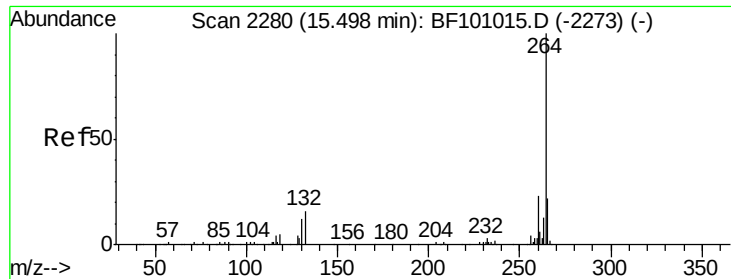
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 20.017 ng
RT: 16.99 min Scan# 2534
Delta R.T. 0.05 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.2	25.0	37.6#
277	22.9	20.1	30.1





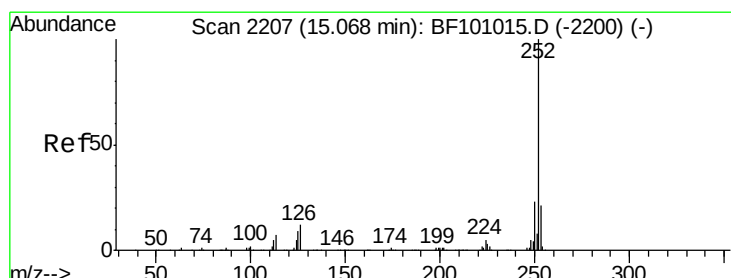
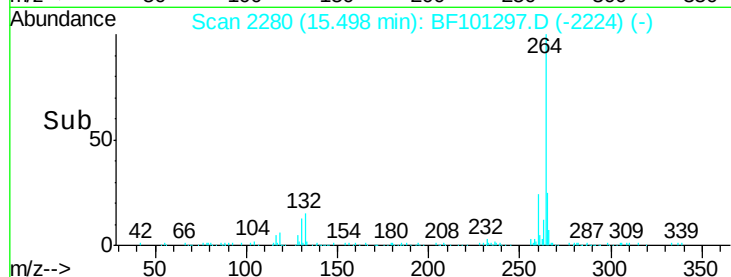
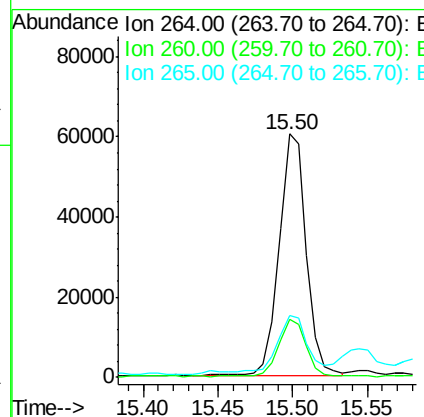
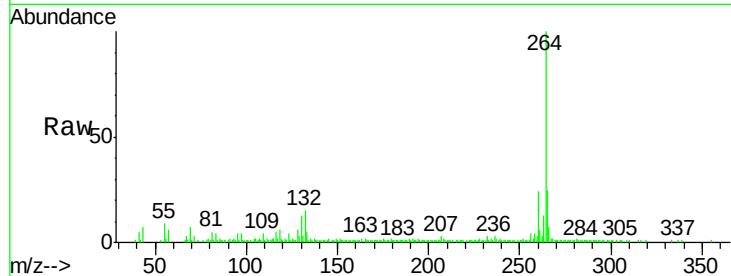
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.03 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	25.4	17.5	26.3

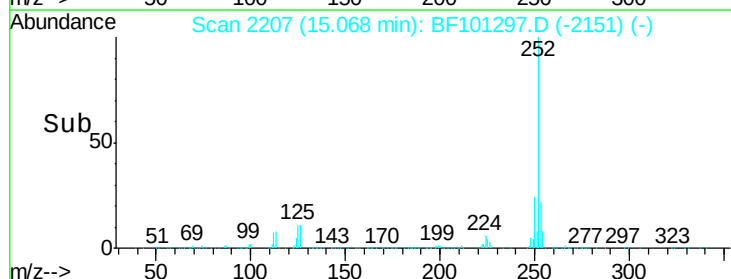
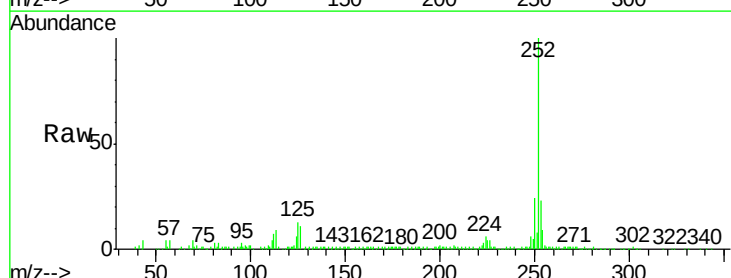
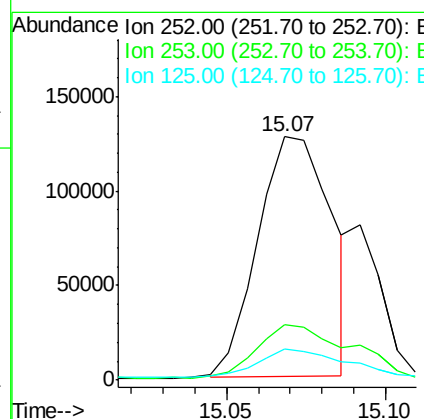
Manual Integrations
APPROVED

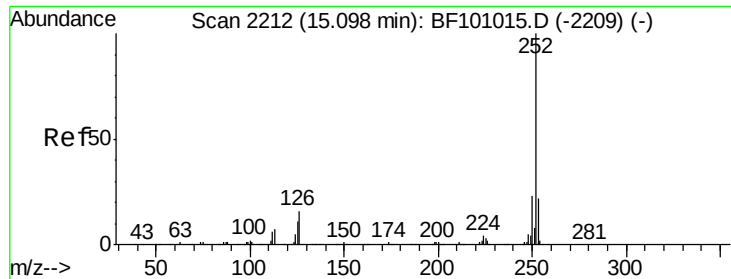
Sohil
12/12/2017 3:59:15 PM



#87
Benzo(b)fluoranthene
Concen: 44.660 ng m
RT: 15.07 min Scan# 2207
Delta R.T. 0.03 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	12.6	9.0	13.6





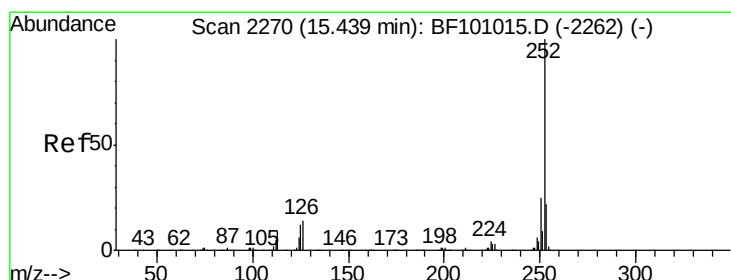
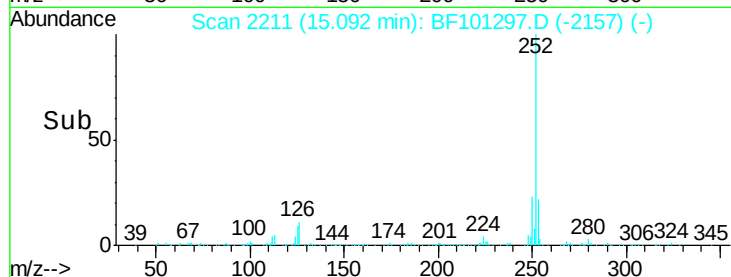
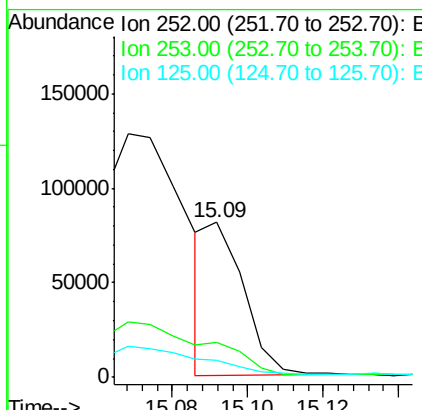
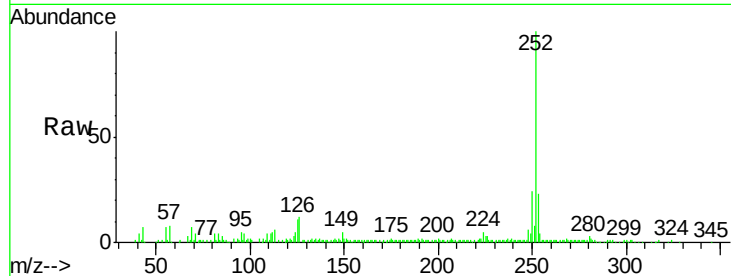
#88
Benzo(k)fluoranthene
Concen: 12.027 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.02 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Instrument :
BNA_F
ClientSampleId :
Soil-Cuttings

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	10.9	10.2	15.2

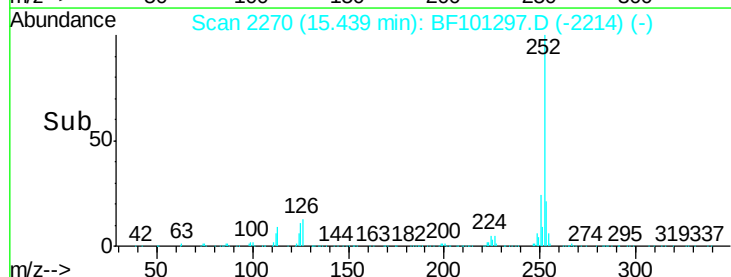
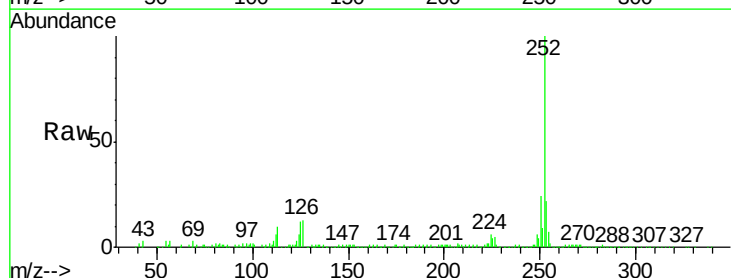
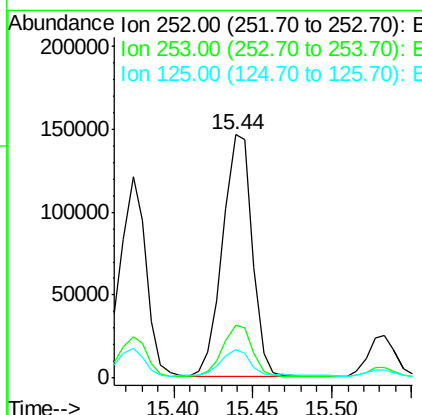
Manual Integrations
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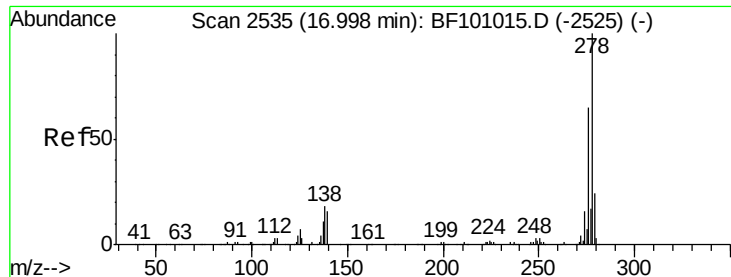
Sohil
12/12/2017 3:59:15 PM



#89
Benzo(a)pyrene
Concen: 45.497 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.03 min
Lab File: BF101297.D
Acq: 11 Dec 2017 18:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.1	25.7
125	11.7	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 6.896 ng m

RT: 16.99 min Scan# 2534

Delta R.T. 0.04 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Instrument :

BNA_F

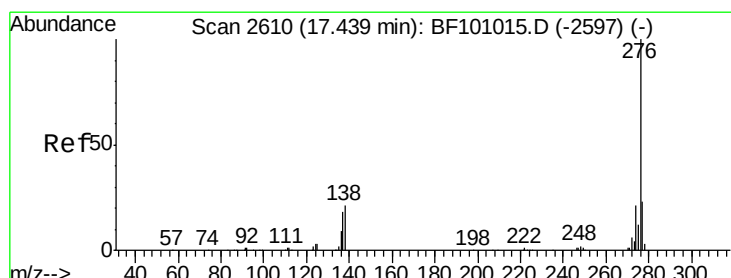
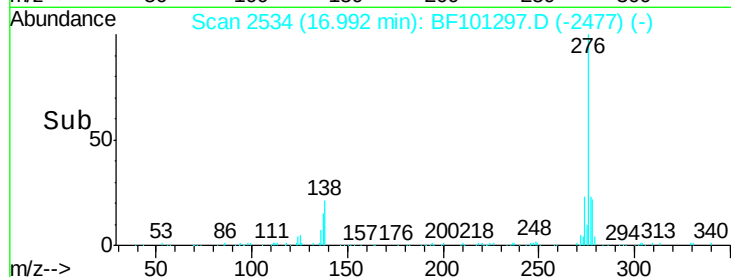
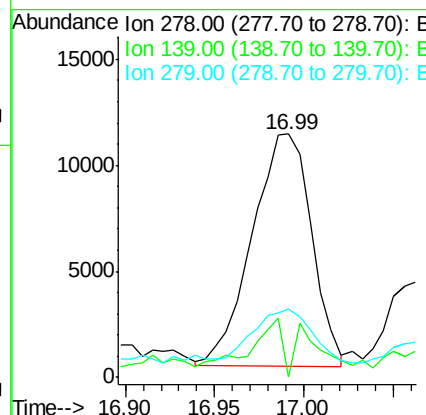
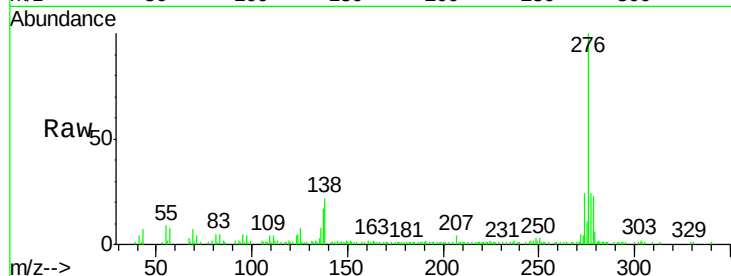
ClientSampleId :

Soil-Cuttings

Tot Ion:	278	Resp:	25336
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	28.0	19.0	28.4

Manual Integrations
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12/12/2017 3:59:15 PM



#91

Benzo(g,h,i)perylene

Concen: 36.170 ng m

RT: 17.45 min Scan# 2612

Delta R.T. 0.06 min

Lab File: BF101297.D

Acq: 11 Dec 2017 18:43

Tgt Ion:	276	Resp:	125231
Ion Ratio	Lower	Upper	
276	100		
277	22.7	17.9	26.9
138	20.6	21.8	32.8#

