

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020416\
 Data File : BE091389.D
 Acq On : 4 Feb 2016 10:59
 Operator : UM/IZ
 Sample : G4825-03
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOD-SOIL2016-01

Manual Integrations
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Quant Time: Feb 05 12:36:08 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	52729	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	241924	5.00	ng	0.00
8) Acenaphthene-d10	13.36	164	151851	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	402243	5.00	ng	0.00
18) Chrysene-d12	20.22	240	427442	5.00	ng	0.00
24) Perylene-d12	22.10	264	386976	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	84879	6.81	ng	-0.04
3) Phenol-d6	6.54	99	113624	6.45	ng	-0.03
5) Nitrobenzene-d5	8.17	82	46317	3.01	ng	0.00
9) 2,4,6-Tribromophenol	14.91	330	28248	3.98	ng	0.00
10) 2-Fluorobiphenyl	12.01	172	157979	4.00	ng	0.00
20) Terphenyl-d14	18.62	244	267875	4.24	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.60	128	4034	0.07	ng	# 91
7) 2-Methylnaphthalene	11.18	142	2403	0.20	ng	98
11) Acenaphthylene	13.12	152	13672	0.23	ng	100
12) Acenaphthene	13.42	154	3025	0.07	ng	97
13) Fluorene	14.43	166	3620	0.07	ng	100
15) Phenanthrene	16.13	178	8119m	0.08	ng	
16) Anthracene	16.23	178	5318	0.06	ng	98
17) Fluoranthene	18.11	202	6336	0.17	ng	99
19) Pyrene	18.49	202	6513	0.07	ng	99
21) Benzo(a)anthracene	20.19	228	5629	0.23	ng	98
22) Chrysene	20.25	228	9342	0.02	ng	99
23) Indeno(1,2,3-cd)pyrene	23.73	276	4627m	0.21	ng	
25) Benzo(b)fluoranthene	21.56	252	5206	0.20	ng	# 93
26) Benzo(k)fluoranthene	21.58	252	6352	0.08	ng	# 91
27) Benzo(a)pyrene	22.01	252	3988	0.21	ng	# 82
28) Dibenzo(a,h)anthracene	23.68	278	3589	0.29	ng	# 82
29) Benzo(g,h,i)perylene	24.28	276	5260	0.20	ng	# 91

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

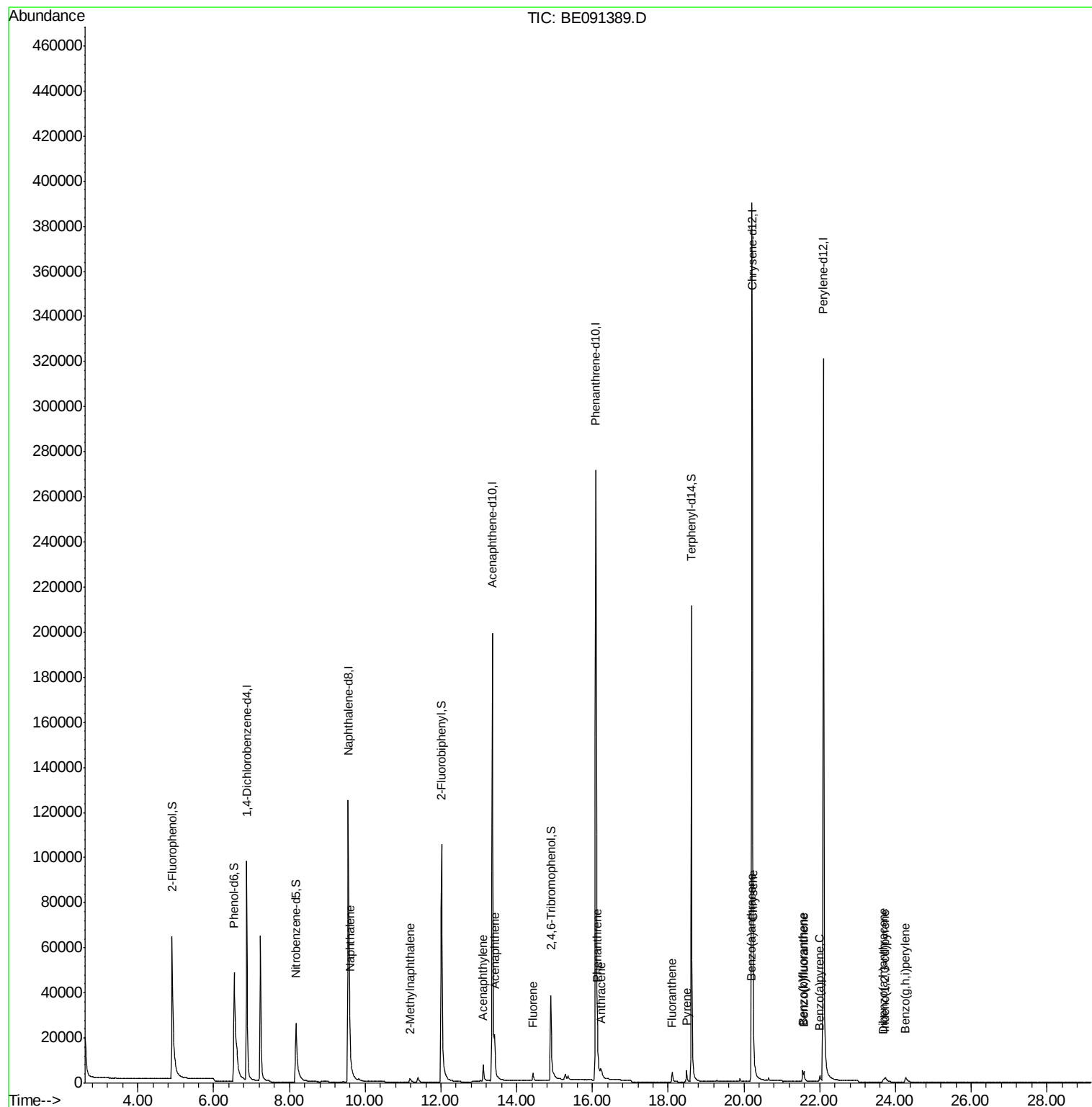
Data Path : Z:\HPCHEM1\BNA E\DATA\BE020416\
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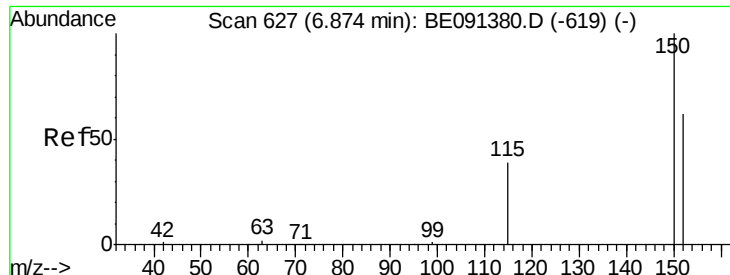
Instrument :
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Quant Time: Feb 05 12:36:08 2016
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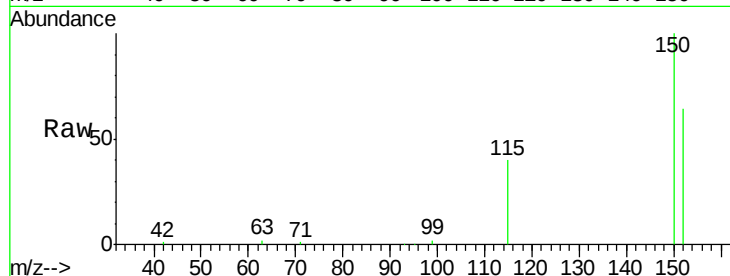




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59

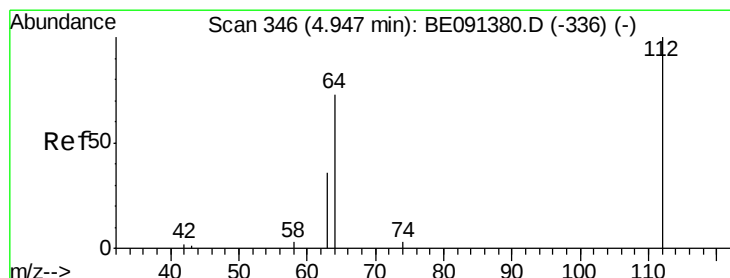
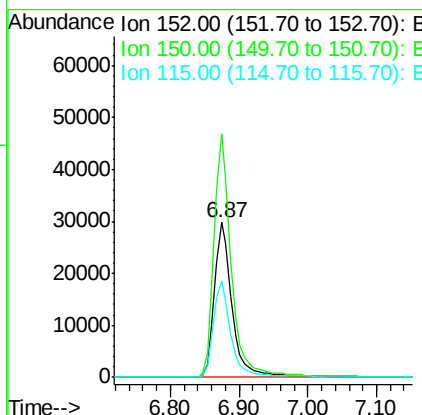
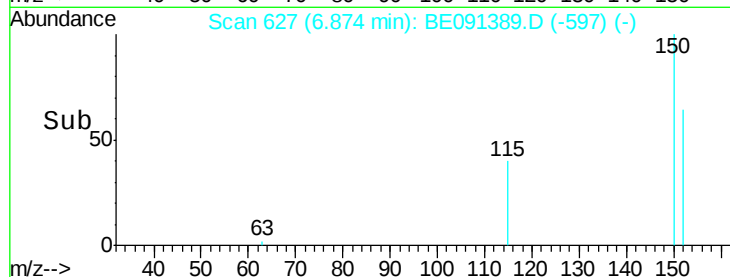
Instrument :
BNA_E
ClientSampleId :
LOD-SOIL2016-01



Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	128.9	193.3
115	62.6	50.9	76.3

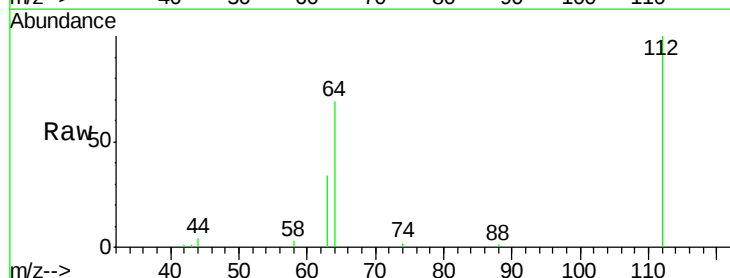
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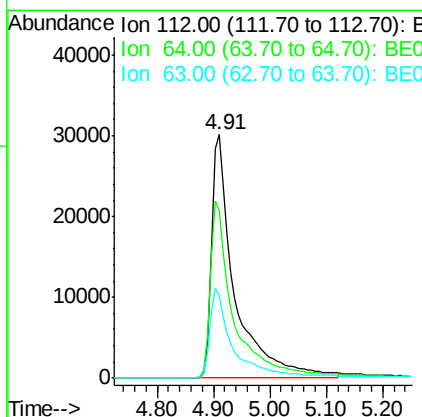
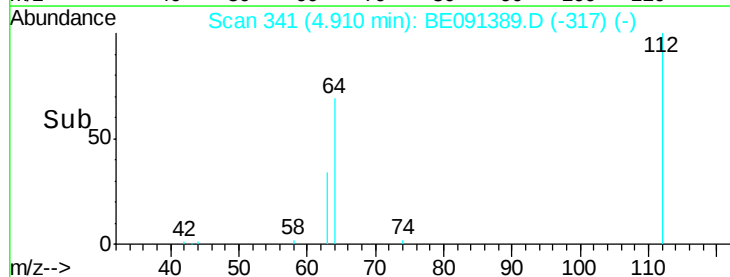


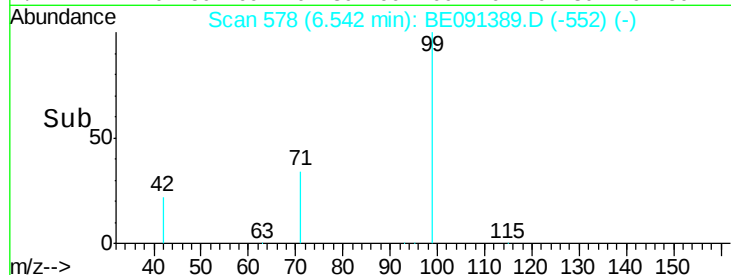
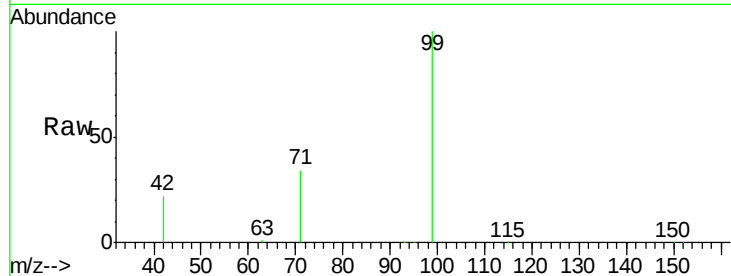
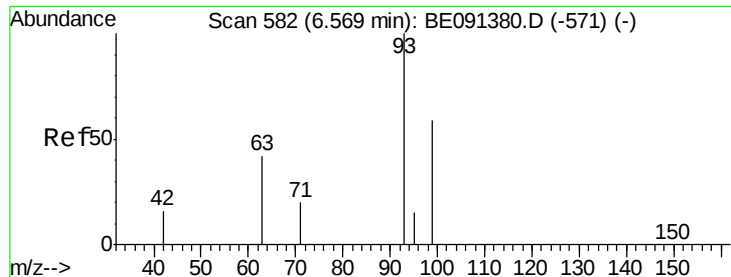
#2

2-Fluorophenol
Concen: 6.81 ng
RT: 4.91 min Scan# 341
Delta R.T. -0.04 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59



Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.4	60.5	90.7
63	36.3	29.8	44.8





#3

Phenol-d6

Concen: 6.45 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Tot Ion:	99	Resp:	113624
Ion Ratio	Lower	Upper	
99	100		
42	15.7	13.3	19.9
71	33.5	25.6	38.4

Instrument :

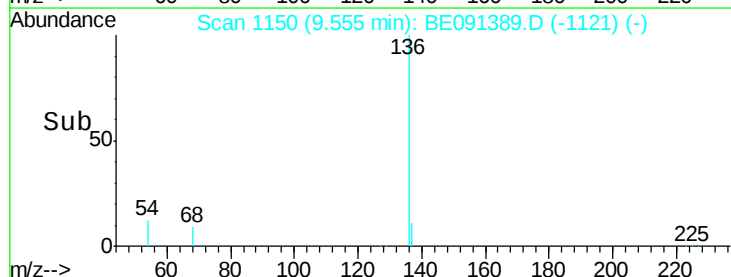
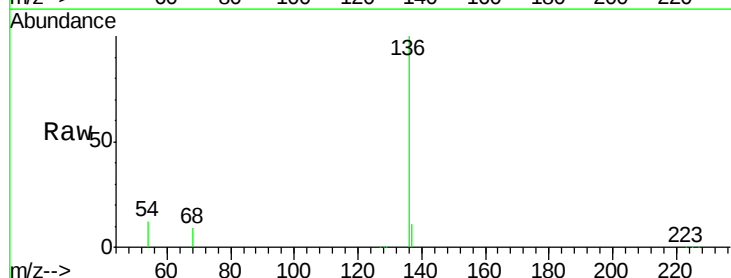
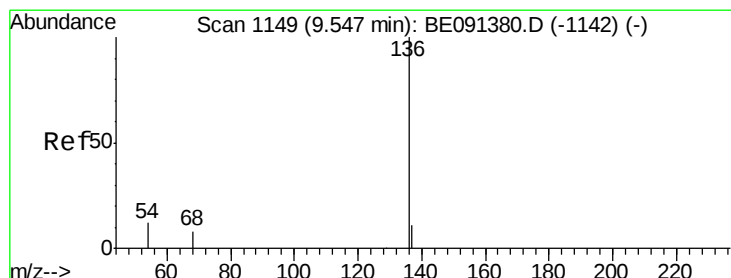
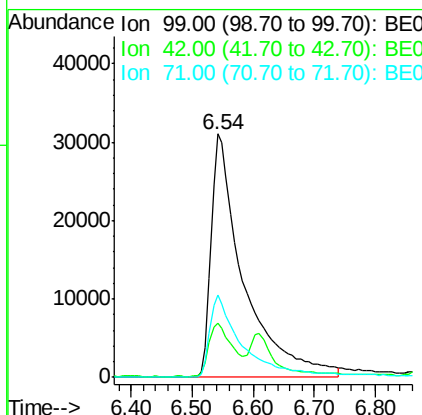
BNA_E

ClientSampleId :

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#4

Naphthalene-d8

Concen: 5.00 ng

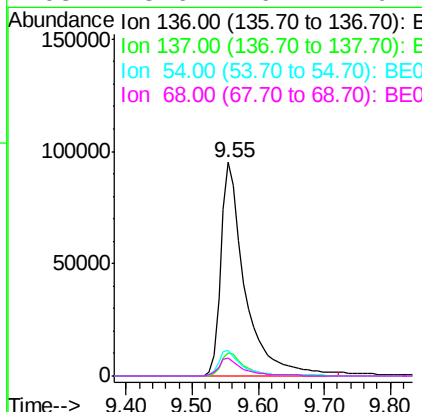
RT: 9.55 min Scan# 1150

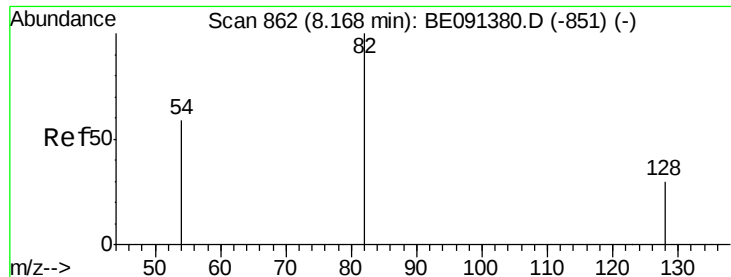
Delta R.T. 0.01 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Tgt Ion:	136	Resp:	241924
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	12.0	9.3	13.9
68	8.6	6.7	10.1





#5

Nitrobenzene-d5

Concen: 3.01 ng

RT: 8.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Instrument :

BNA_E

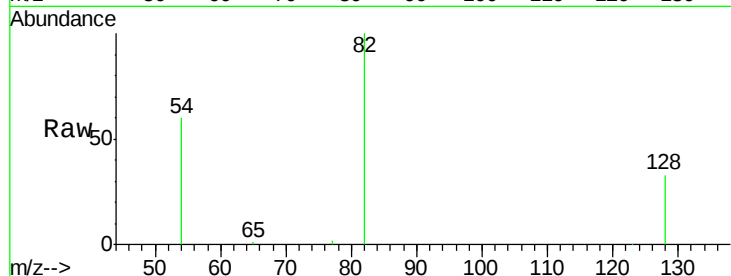
ClientSampleId :

LOD-SOIL2016-01

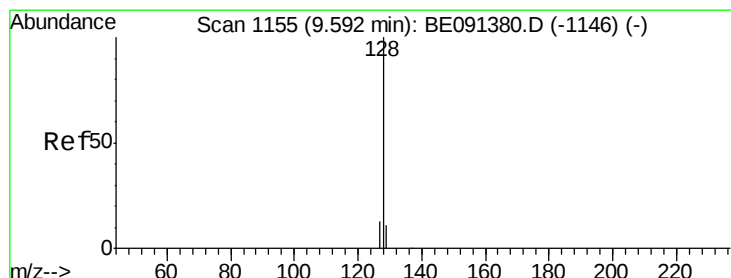
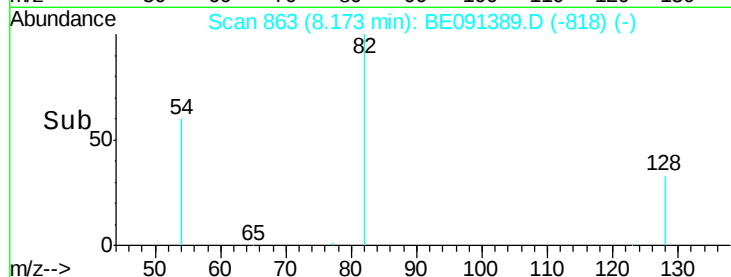
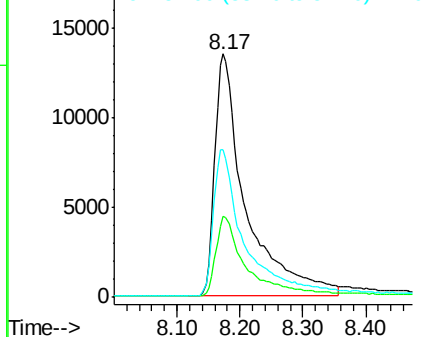
Tot Ion:	82	Resp:	46317
Ion Ratio	Lower	Upper	
82	100		
128	33.2	25.0	37.4
54	60.5	48.1	72.1

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Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.07 ng

RT: 9.60 min Scan# 1156

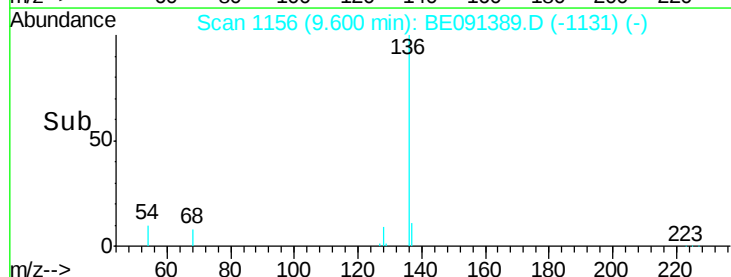
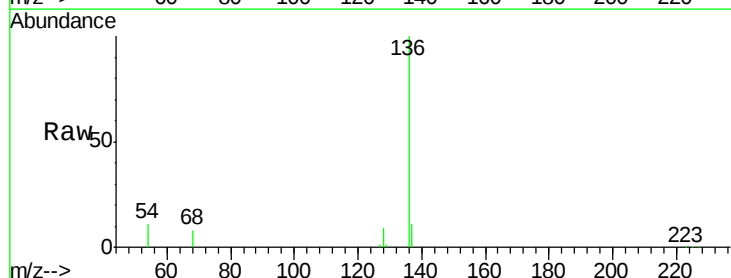
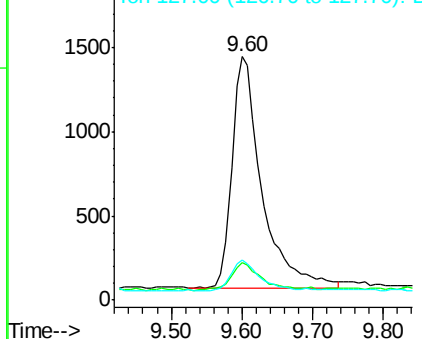
Delta R.T. 0.01 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Tgt Ion:	128	Resp:	4034
Ion Ratio	Lower	Upper	
128	100		
129	15.5	9.1	13.7#
127	16.3	10.5	15.7#

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.20 ng

RT: 11.18 min Scan# 1421

Delta R.T. 0.05 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Instrument :

BNA_E

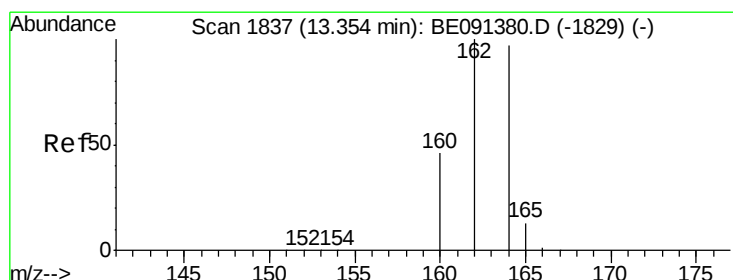
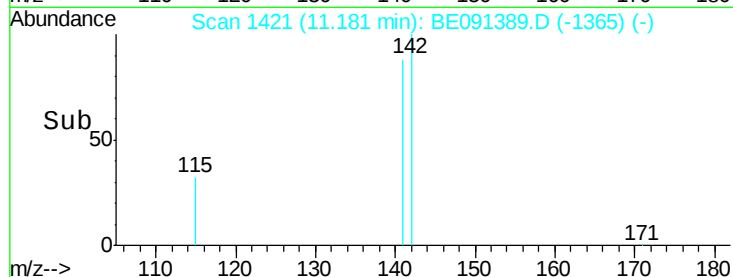
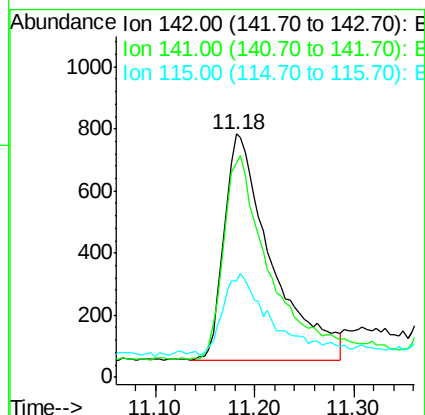
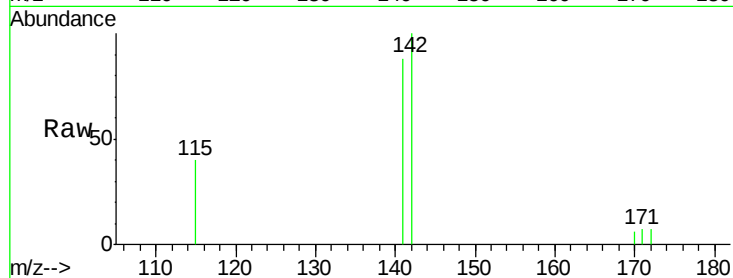
ClientSampleId :

LOD-SOIL2016-01

Tot Ion:	142	Resp:	2403
Ion Ratio	Lower	Upper	
142	100		
141	88.1	72.3	108.5
115	39.7	30.5	45.7

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#8

Acenaphthene-d10

Concen: 5.00 ng

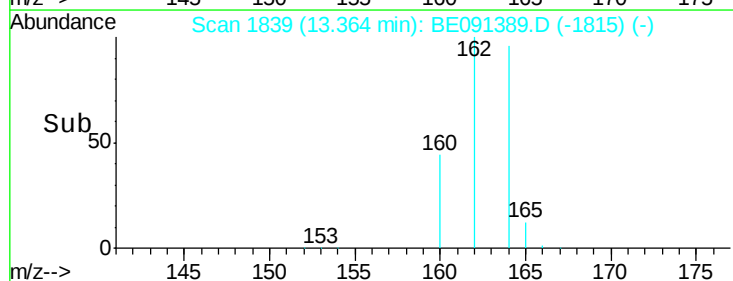
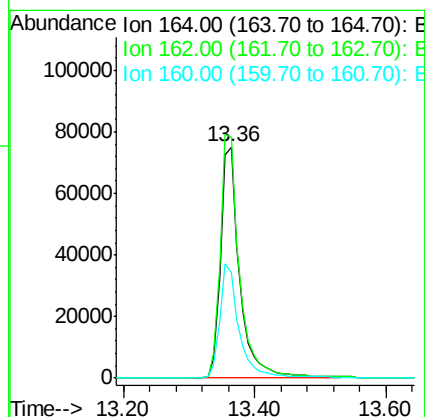
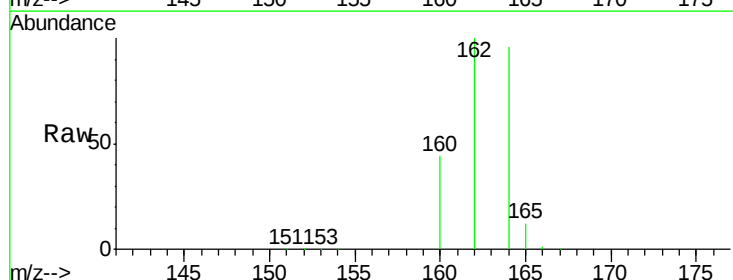
RT: 13.36 min Scan# 1839

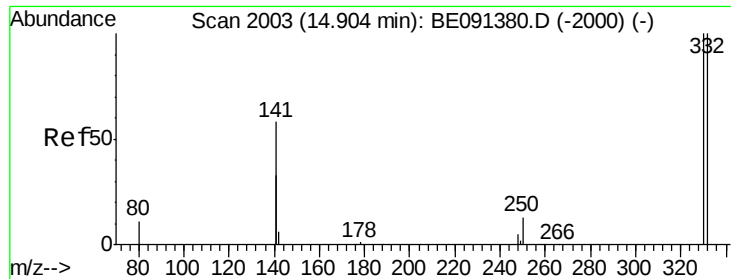
Delta R.T. 0.01 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Tgt Ion:	164	Resp:	151851
Ion Ratio	Lower	Upper	
164	100		
162	104.1	82.2	123.2
160	45.8	37.8	56.8





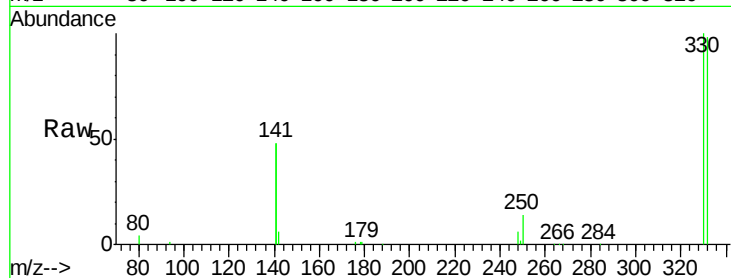
#9
 2,4,6-Tribromophenol
 Concen: 3.98 ng
 RT: 14.91 min Scan# 2004
 Delta R.T. 0.00 min
 Lab File: BE091389.D
 Acq: 4 Feb 2016 10:59

Instrument :
 BNA_E
 ClientSampleId :
 LOD-SOIL2016-01

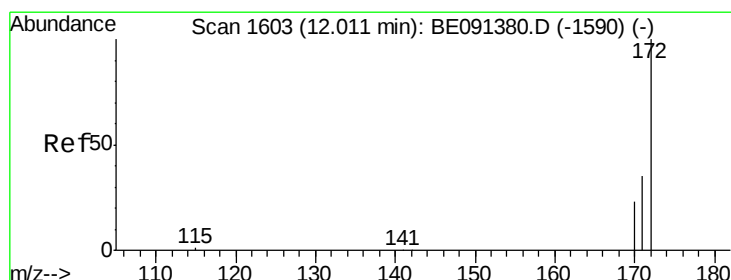
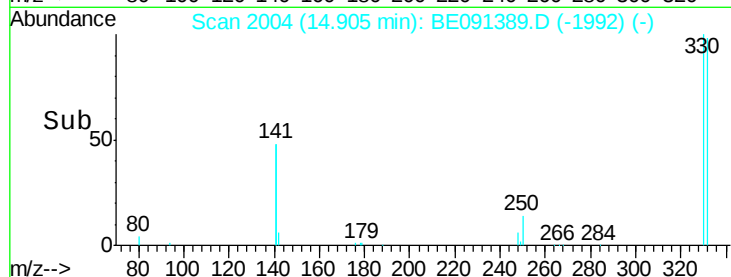
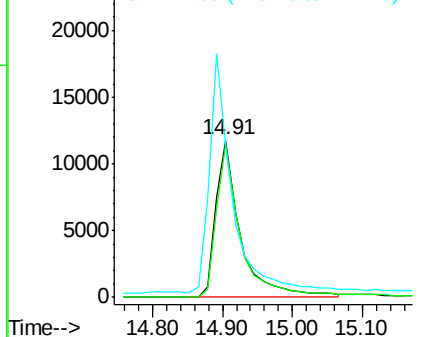
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.1	78.8	118.2
141	145.8	105.1	157.7

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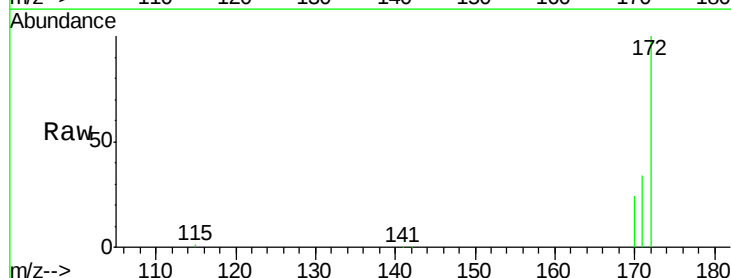


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

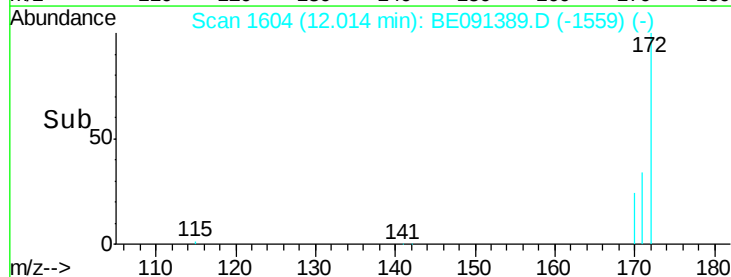
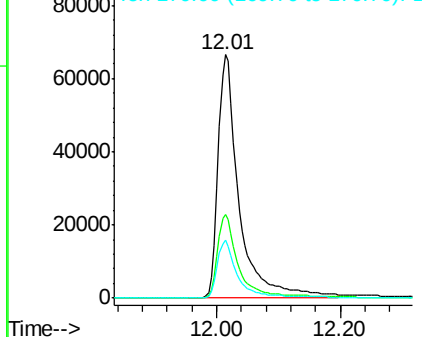


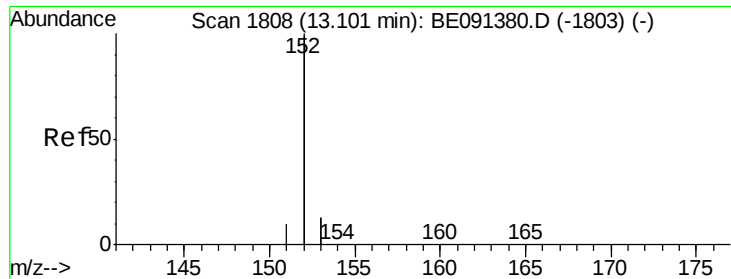
#10
 2-Fluorobiphenyl
 Concen: 4.00 ng
 RT: 12.01 min Scan# 1604
 Delta R.T. 0.00 min
 Lab File: BE091389.D
 Acq: 4 Feb 2016 10:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	27.8	41.8
170	23.7	18.6	28.0



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





#11

Acenaphthylene

Concen: 0.23 ng

RT: 13.12 min Scan# 1811

Delta R.T. 0.02 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Instrument :

BNA_E

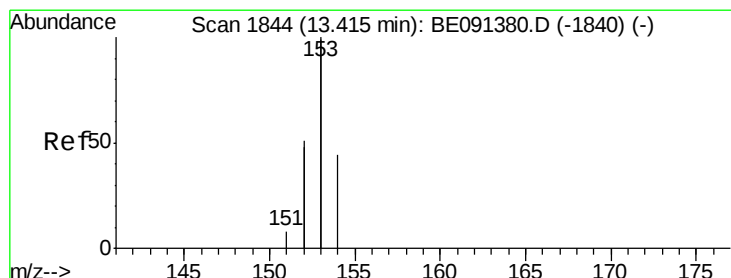
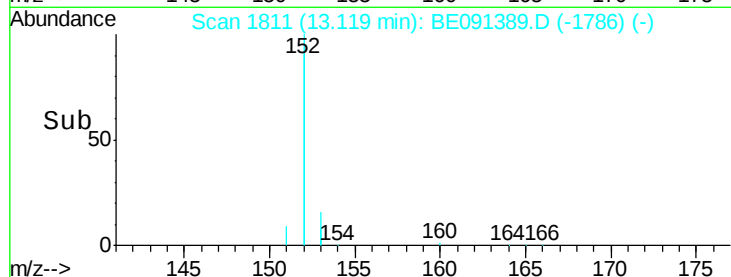
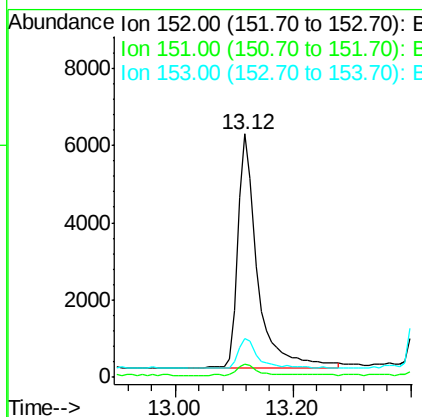
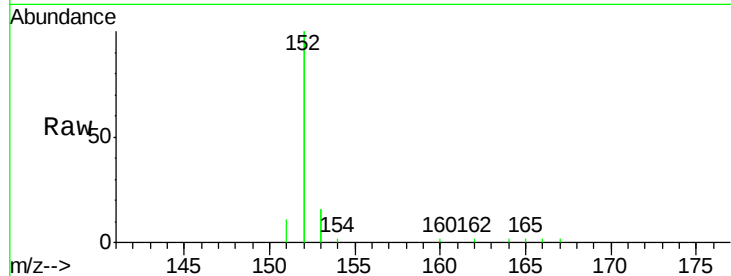
ClientSampleId :

LOD-SOIL2016-01

Tot Ion:	152	Resp:	13672
Ion Ratio	Lower	Upper	
152	100		
151	4.5	3.8	5.8
153	12.7	10.2	15.4

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#12

Acenaphthene

Concen: 0.07 ng

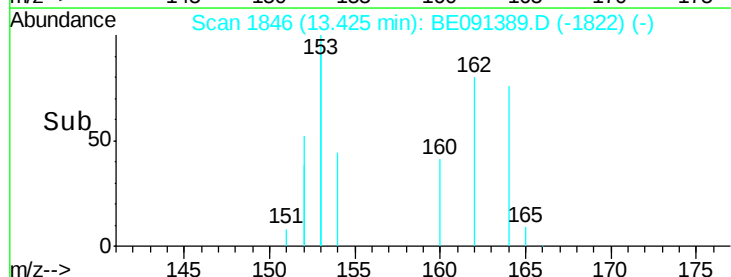
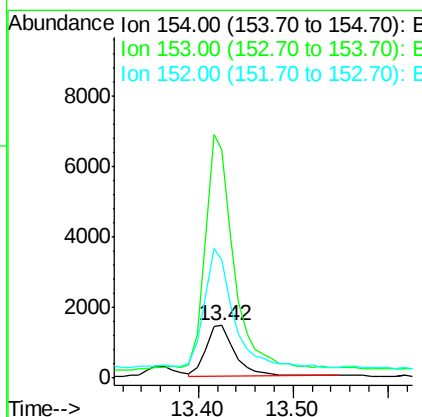
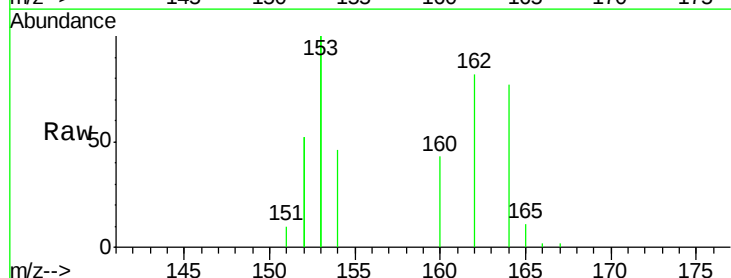
RT: 13.42 min Scan# 1846

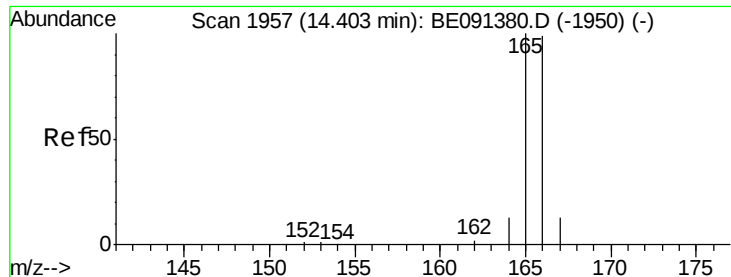
Delta R.T. 0.01 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Tgt Ion:	154	Resp:	3025
Ion Ratio	Lower	Upper	
154	100		
153	469.2	369.8	554.8
152	238.7	194.4	291.6





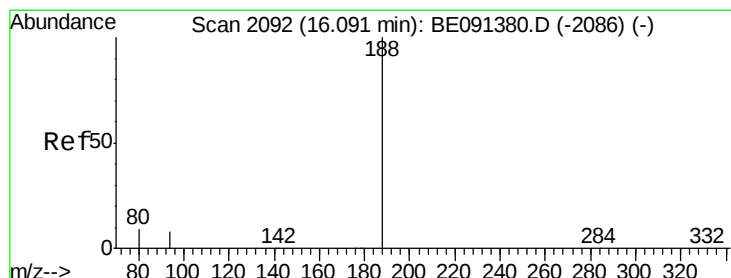
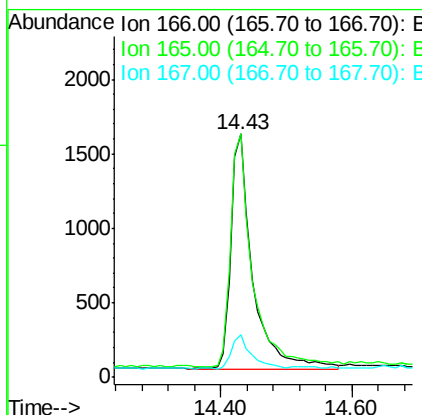
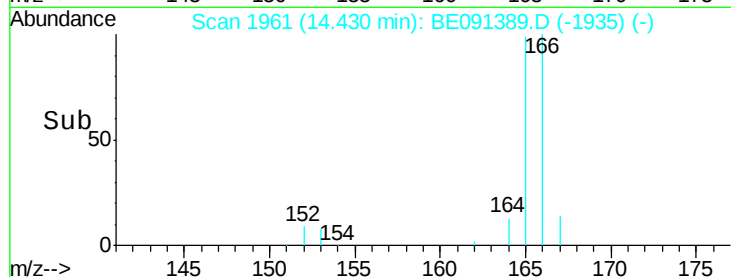
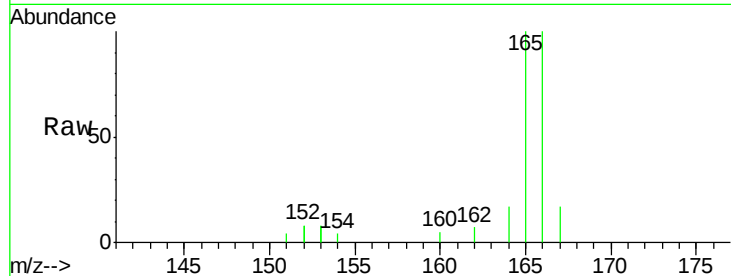
#13
Fluorene
 Concen: 0.07 ng
 RT: 14.43 min Scan# 1961
 Delta R.T. 0.03 min
 Lab File: BE091389.D
 Acq: 4 Feb 2016 10:59

Instrument :
 BNA_E
 ClientSampleId :
 LOD-SOIL2016-01

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.3	118.9
167	13.2	10.6	16.0

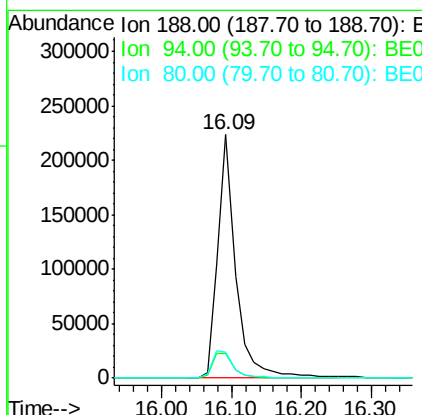
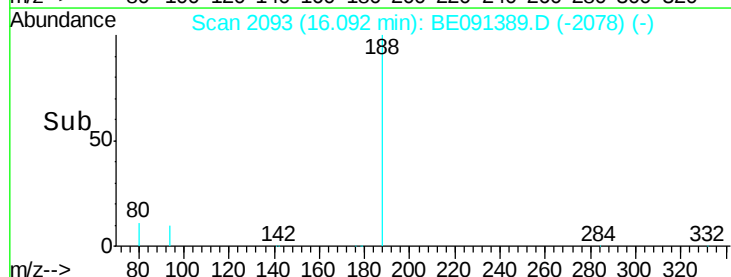
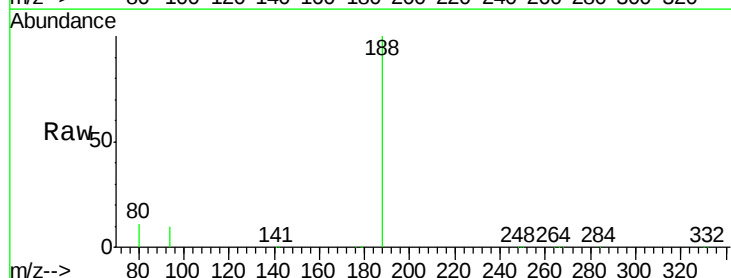
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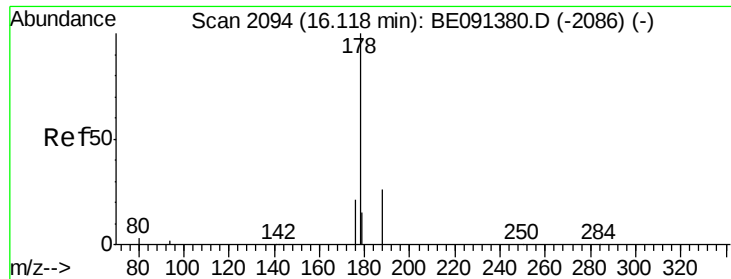
mohammad
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#14
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.09 min Scan# 2093
 Delta R.T. 0.00 min
 Lab File: BE091389.D
 Acq: 4 Feb 2016 10:59

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.1	6.6	10.0#
80	10.6	7.0	10.6#





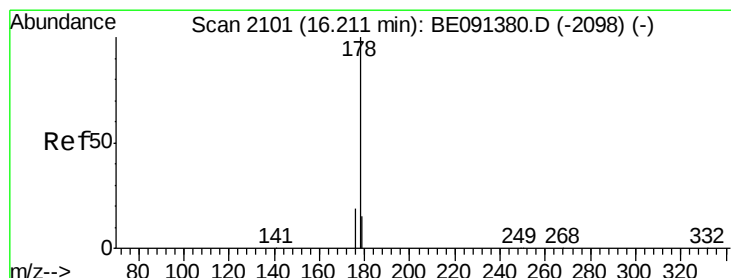
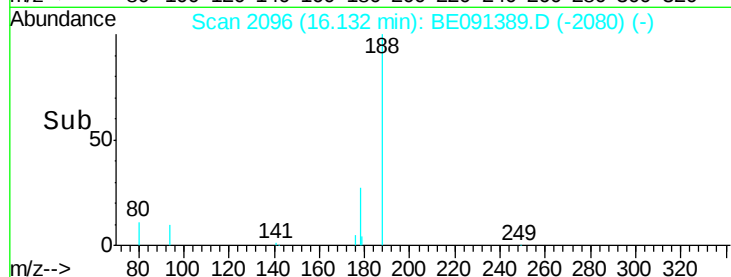
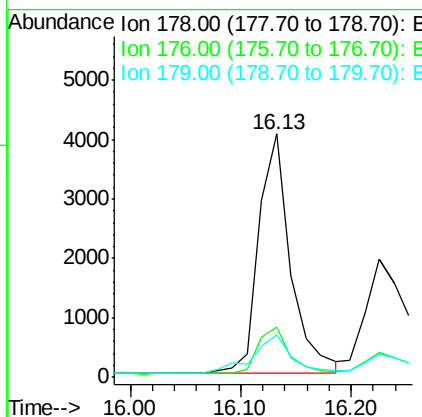
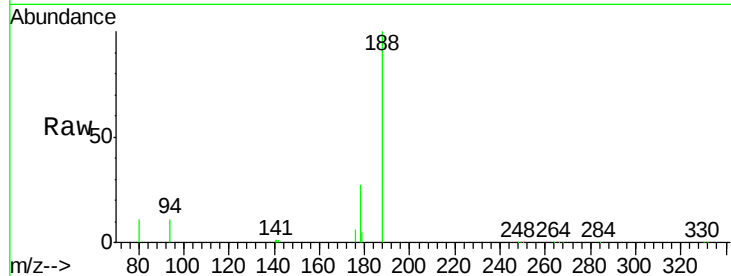
#15
Phenanthrene
Concen: 0.08 ng m
RT: 16.13 min Scan# 2096
Delta R.T. 0.01 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59

Instrument :
BNA_E
ClientSampleId :
LOD-SOIL2016-01

Tot Ion	Ratio	Lower	Upper
178	100		
176	9.2	15.4	23.2#
179	8.5	12.7	19.1#

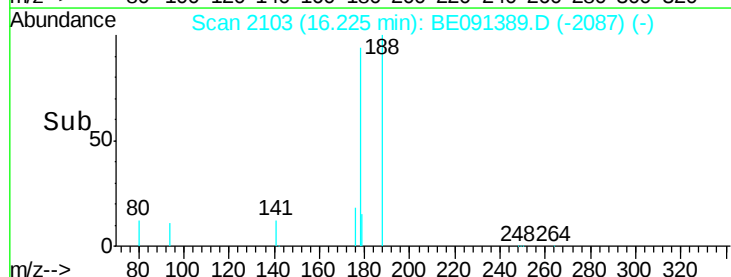
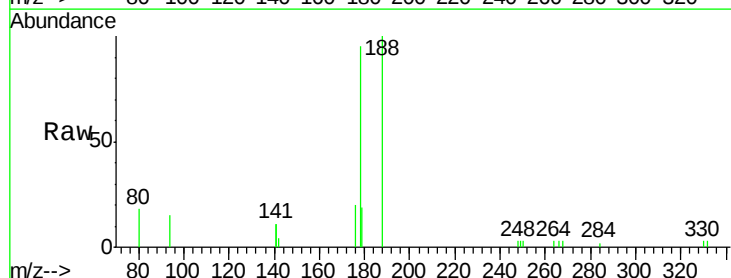
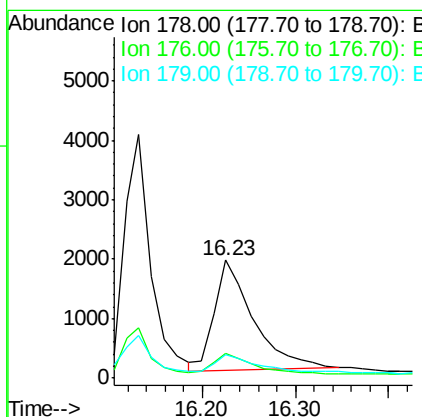
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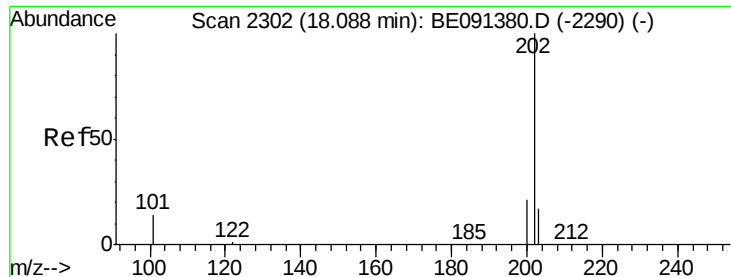
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#16
Anthracene
Concen: 0.06 ng
RT: 16.23 min Scan# 2103
Delta R.T. 0.01 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	16.8	12.1	18.1





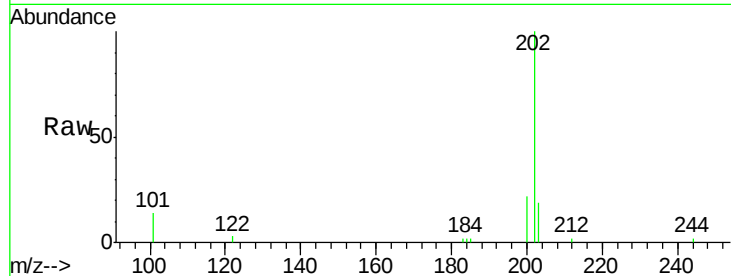
#17
Fluoranthene
 Concen: 0.17 ng
 RT: 18.11 min Scan# 2306
 Delta R.T. 0.02 min
 Lab File: BE091389.D
 Acq: 4 Feb 2016 10:59

Instrument :
 BNA_E
 ClientSampleId :
 LOD-SOIL2016-01

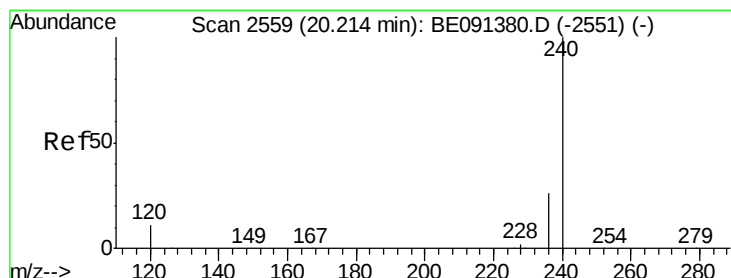
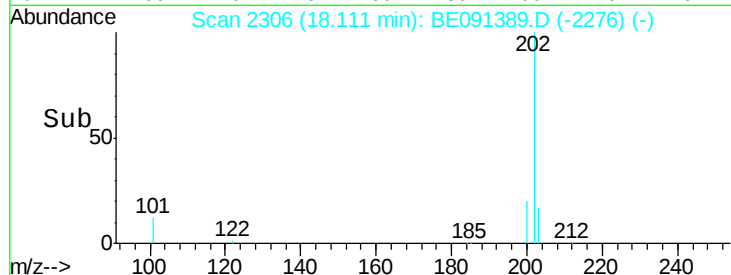
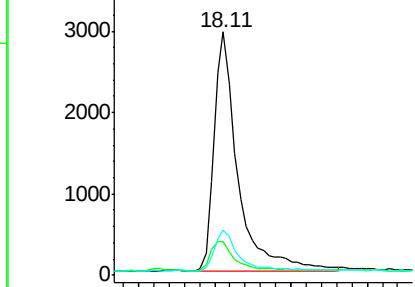
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.2	10.5	15.7
203	17.8	13.9	20.9

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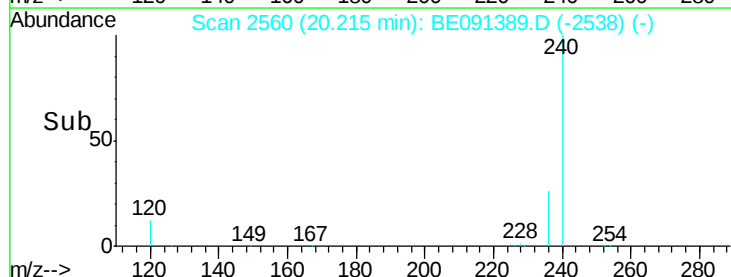
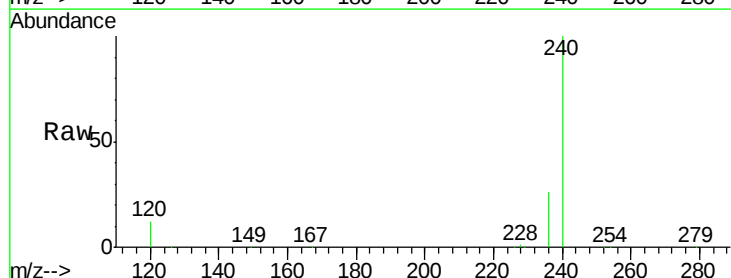
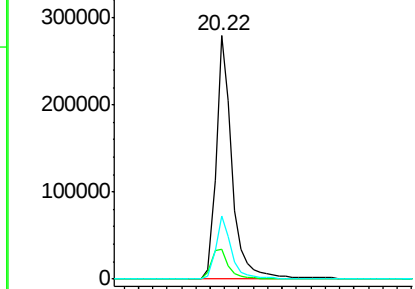
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E



#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.22 min Scan# 2560
 Delta R.T. 0.00 min
 Lab File: BE091389.D
 Acq: 4 Feb 2016 10:59

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.4	8.9	13.3
236	26.1	21.0	31.4

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





#19

Pvrene

Concen: 0.07 ng

RT: 18.49 min Scan# 2356

Delta R.T. 0.02 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Instrument :

BNA_E

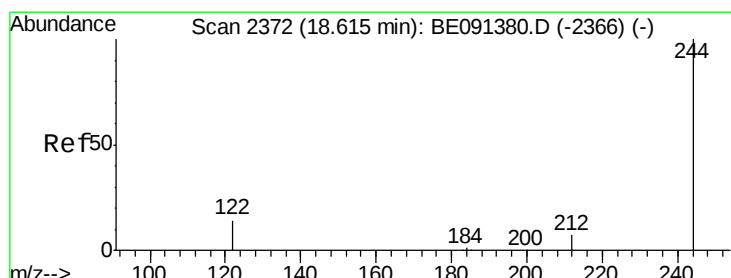
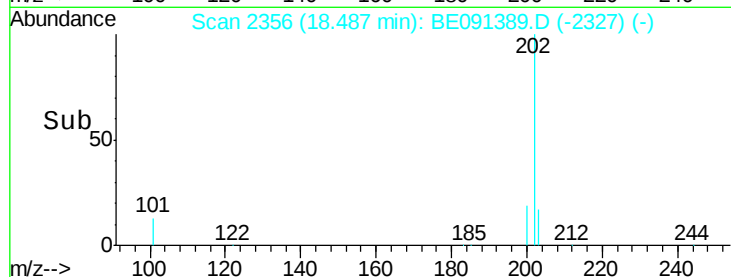
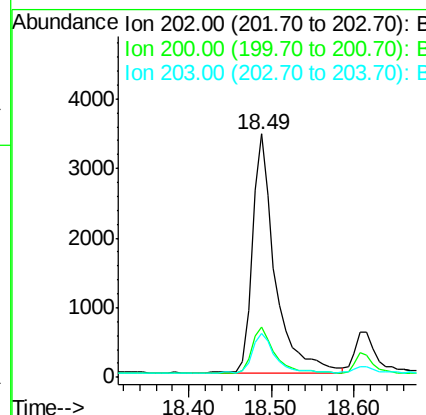
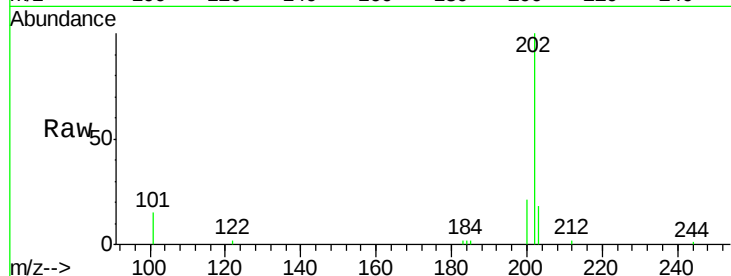
ClientSampleId :

LOD-SOIL2016-01

Tot Ion:	202	Resp:	6513
Ion Ratio	Lower	Upper	
202	100		
200	20.3	16.8	25.2
203	18.0	14.0	21.0

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#20

Terphenyl-d14

Concen: 4.24 ng

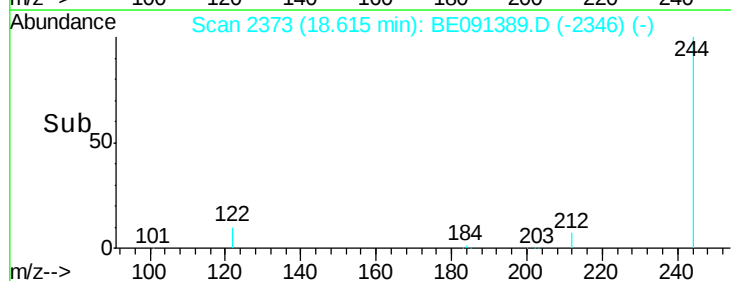
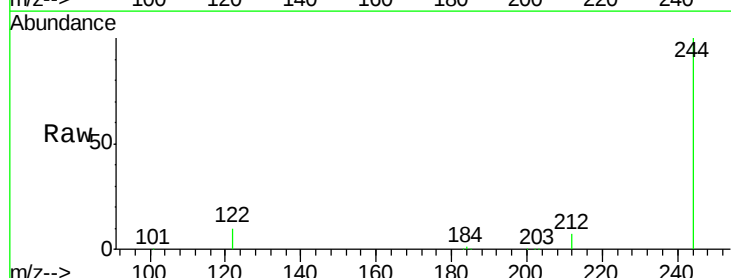
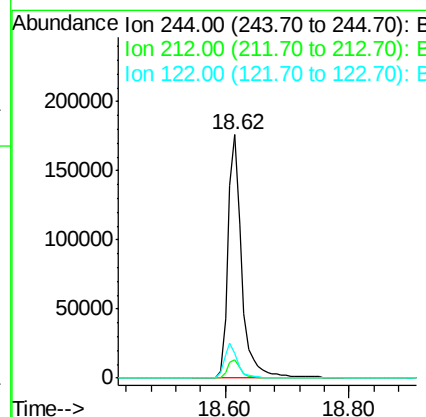
RT: 18.62 min Scan# 2373

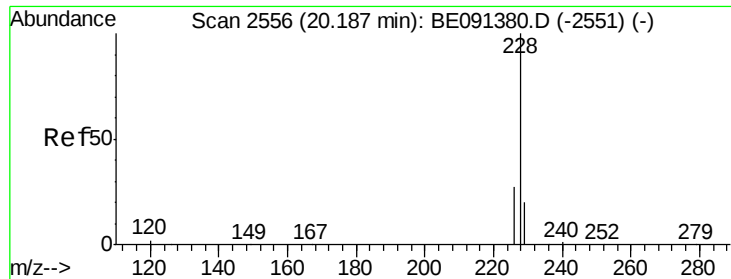
Delta R.T. 0.00 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Tgt Ion:	244	Resp:	267875
Ion Ratio	Lower	Upper	
244	100		
212	7.5	6.1	9.1
122	10.2	11.0	16.6#





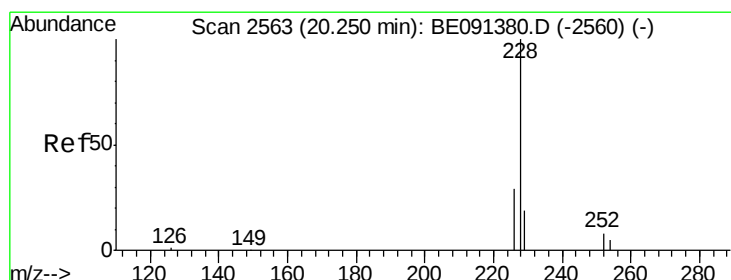
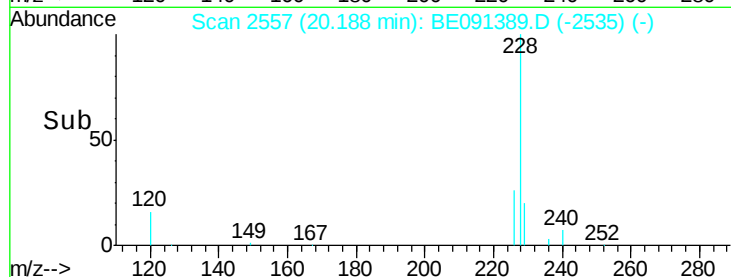
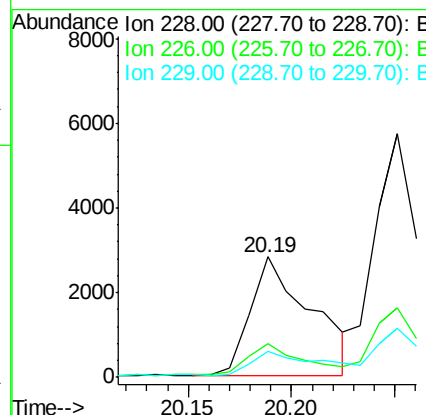
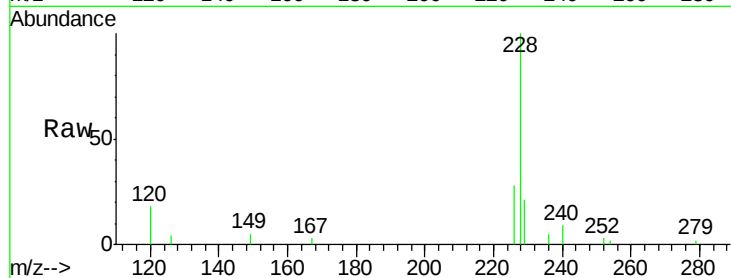
#21
Benzo(a)anthracene
Concen: 0.23 ng
RT: 20.19 min Scan# 2557
Delta R.T. 0.00 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59

Instrument :
BNA_E
ClientSampleId :
LOD-SOIL2016-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.7	32.5
229	21.1	16.1	24.1

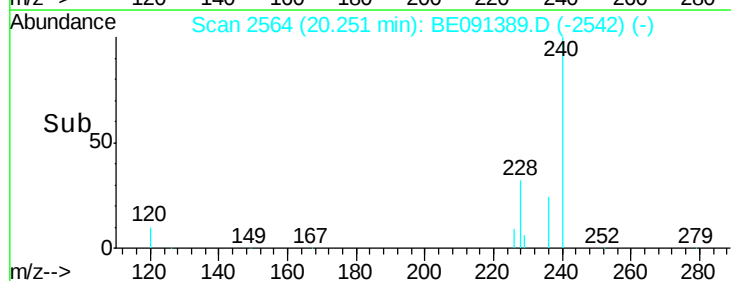
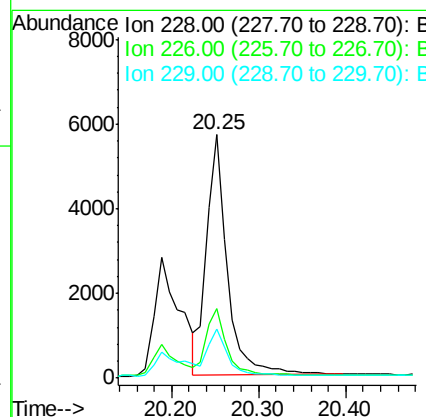
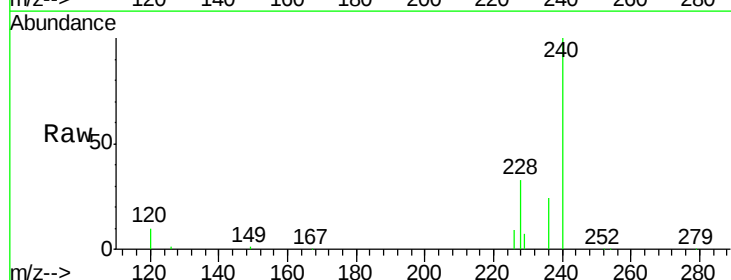
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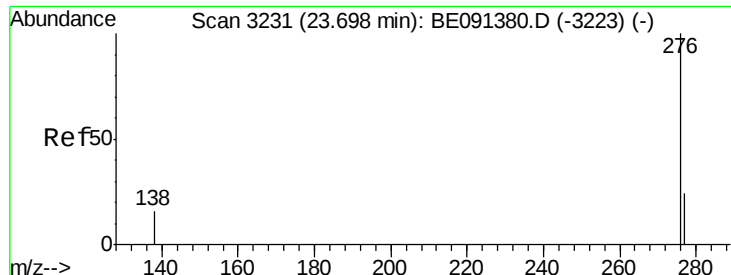
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#22
Chrysene
Concen: 0.02 ng
RT: 20.25 min Scan# 2564
Delta R.T. 0.00 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	23.4	35.0
229	20.0	15.7	23.5





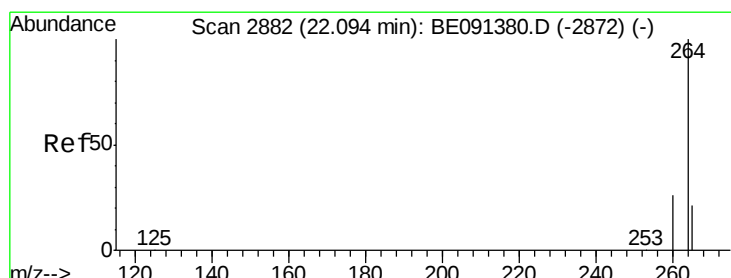
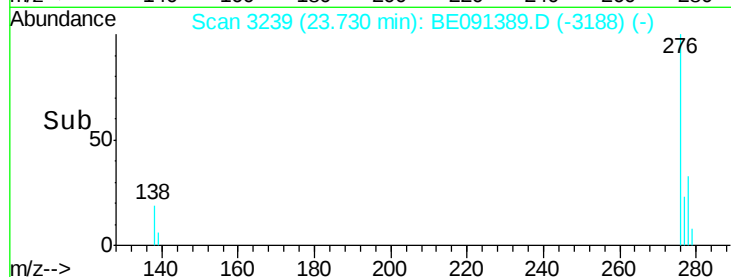
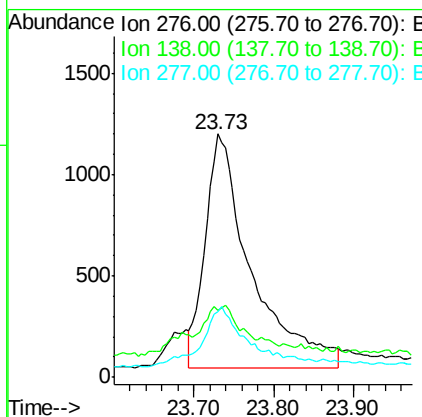
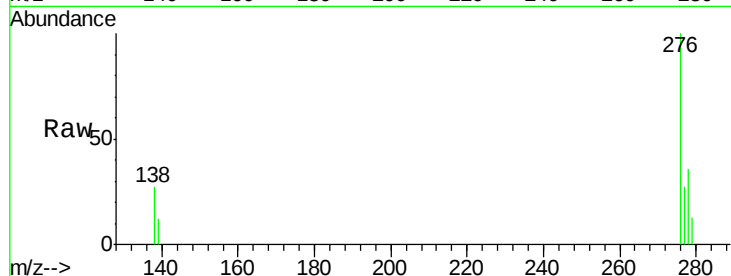
#23
Indeno(1,2,3-cd)pyrene
Concen: 0.21 ng m
RT: 23.73 min Scan# 3239
Delta R.T. 0.03 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59

Instrument :
BNA_E
ClientSampleId :
LOD-SOIL2016-01

Tot Ion	Ratio	Lower	Upper
276	100		
138	3.7	16.6	25.0#
277	23.8	19.0	28.6

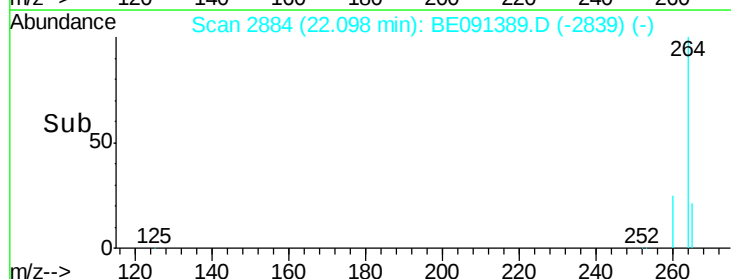
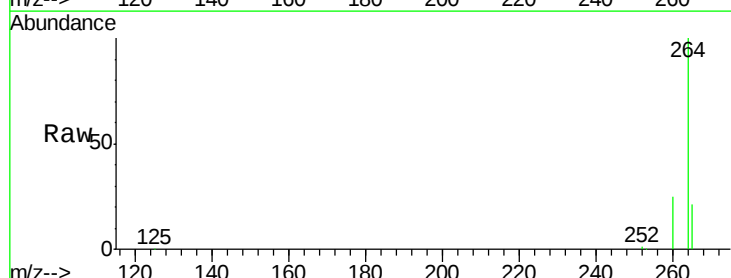
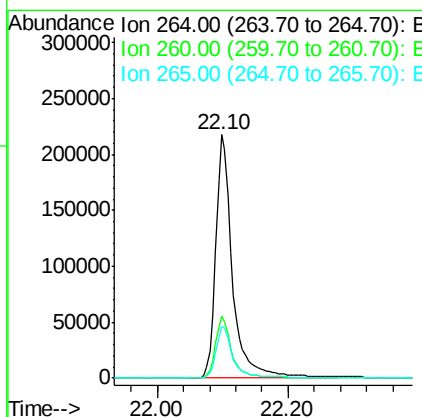
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#24
Perylene-d12
Concen: 5.00 ng
RT: 22.10 min Scan# 2884
Delta R.T. 0.00 min
Lab File: BE091389.D
Acq: 4 Feb 2016 10:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.5	20.7	31.1
265	21.3	17.2	25.8





#25

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 21.56 min Scan# 2765

Delta R.T. 0.01 min

Lab File: BE091389.D

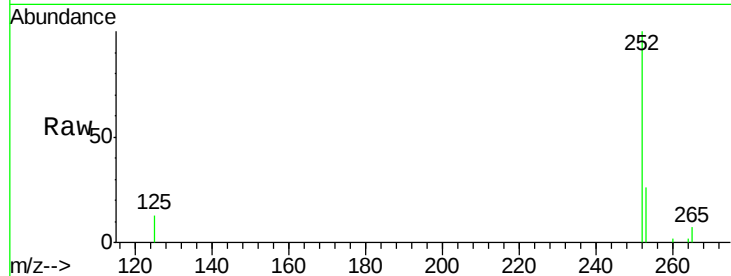
Acq: 4 Feb 2016 10:59

Instrument :

BNA_E

ClientSampleId :

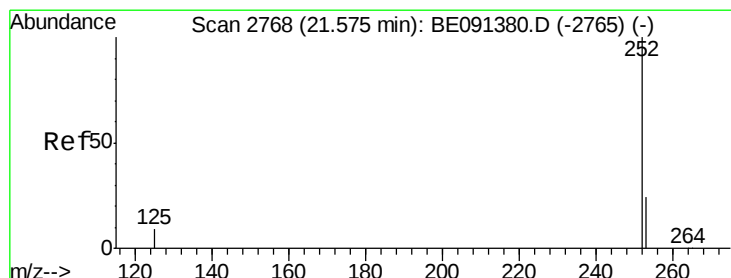
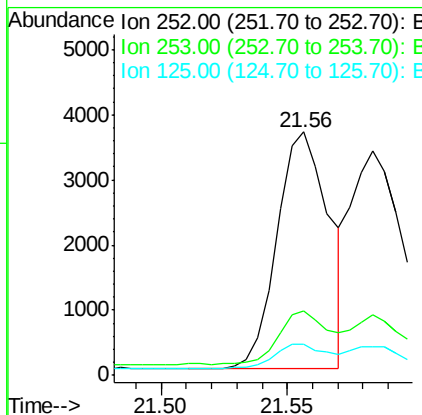
LOD-SOIL2016-01



Tot Ion:	252	Resp:	5206
Ion Ratio	Lower	Upper	
252	100		
253	26.3	18.2	27.2
125	12.8	8.3	12.5#

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#26

Benzo(k)fluoranthene

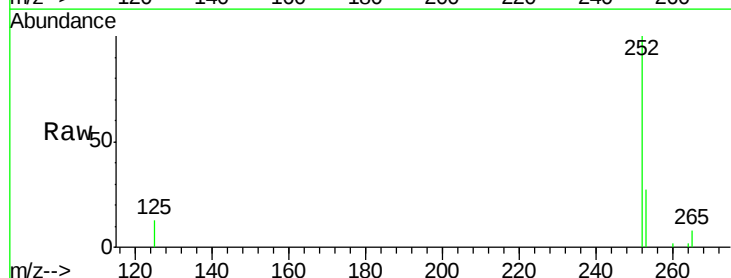
Concen: 0.08 ng

RT: 21.58 min Scan# 2771

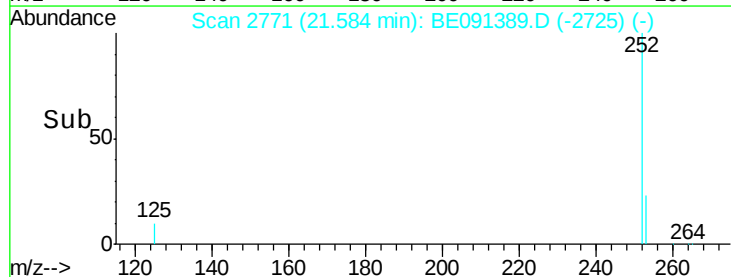
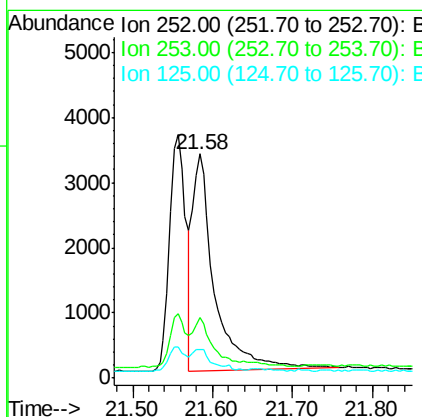
Delta R.T. 0.01 min

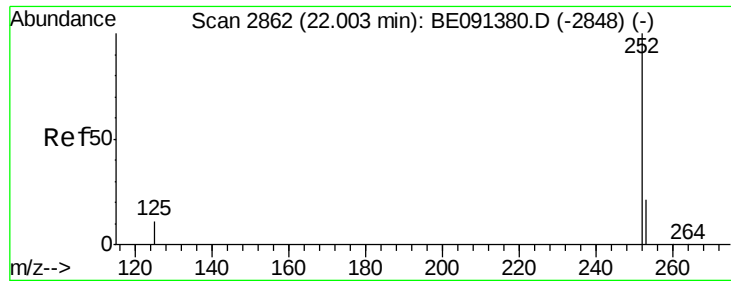
Lab File: BE091389.D

Acq: 4 Feb 2016 10:59



Tgt Ion:	252	Resp:	6352
Ion Ratio	Lower	Upper	
252	100		
253	27.3	18.1	27.1#
125	12.9	8.2	12.4#





#27

Benzo(a)pyrene

Concen: 0.21 ng

RT: 22.01 min Scan# 2864

Delta R.T. 0.00 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Instrument :

BNA_E

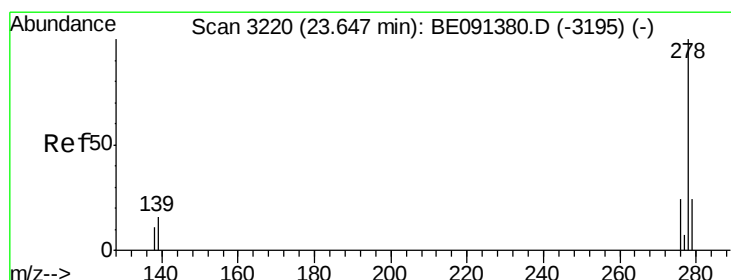
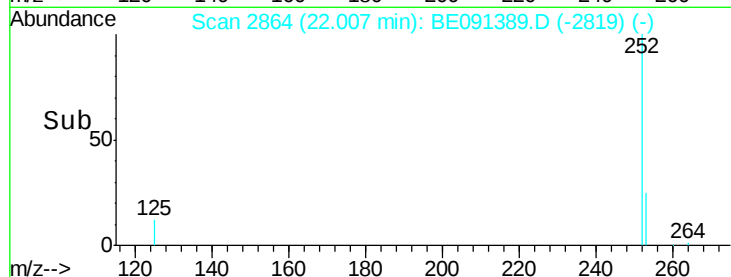
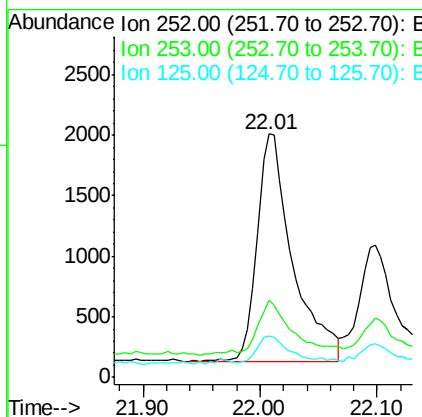
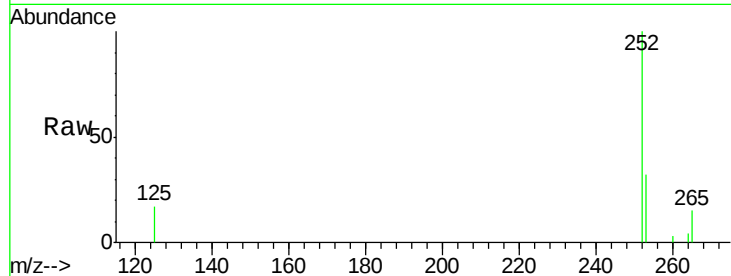
ClientSampleId :

LOD-SOIL2016-01

Tot Ion:	252	Resp:	3988
Ion Ratio	Lower	Upper	
252	100		
253	31.7	17.5	26.3#
125	17.0	9.4	14.0#

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#28

Dibenzo(a,h)anthracene

Concen: 0.29 ng

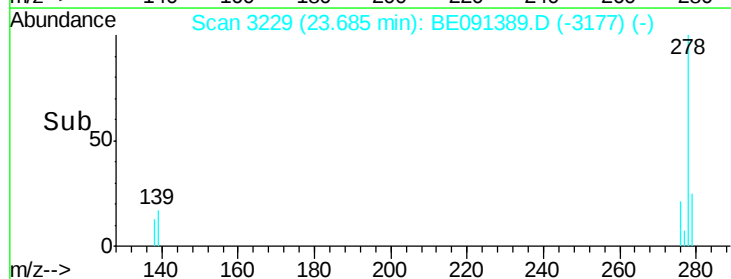
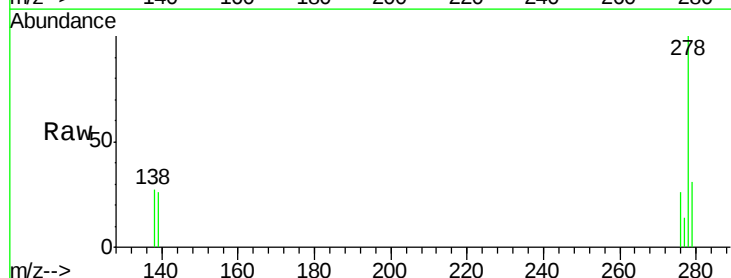
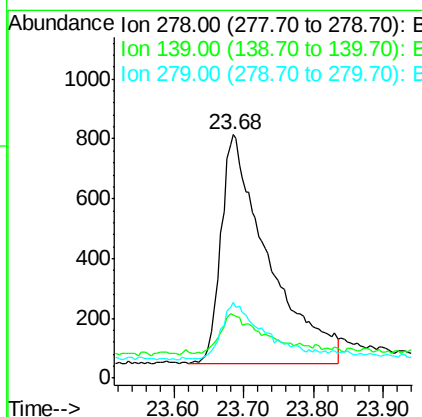
RT: 23.68 min Scan# 3229

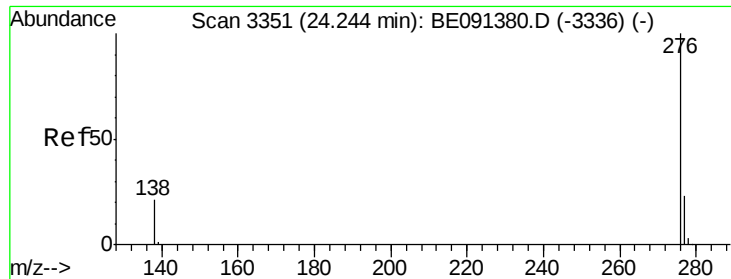
Delta R.T. 0.04 min

Lab File: BE091389.D

Acq: 4 Feb 2016 10:59

Tgt Ion:	278	Resp:	3589
Ion Ratio	Lower	Upper	
278	100		
139	26.0	13.0	19.4#
279	31.2	19.2	28.8#





#29

Benzo(a,h,i)perylene

Concen: 0.20 ng

RT: 24.28 min Scan# 3359

Delta R.T. 0.03 min

Lab File: BE091389.D

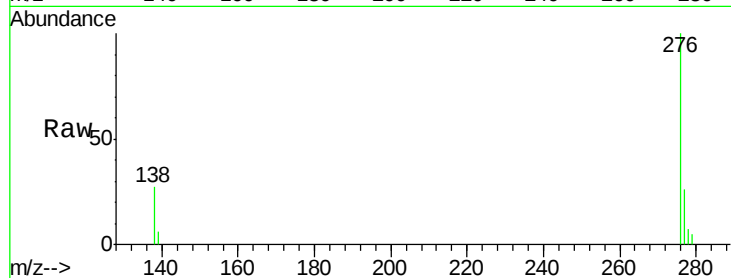
Acq: 4 Feb 2016 10:59

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2016-01



Tot Ion:	276	Resp:	5260
Ion Ratio	Lower	Upper	
276	100		
277	26.1	18.9	28.3
138	27.3	17.0	25.6

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