

Data Path : Z:\HPCHEM1\BNA E\DATA\BE122716\
 Data File : BE092625.D
 Acq On : 27 Dec 2016 17:55
 Operator : UM/SJ
 Sample : H6103-02
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL-02-QT1-2017

Manual Integrations
 APPROVED

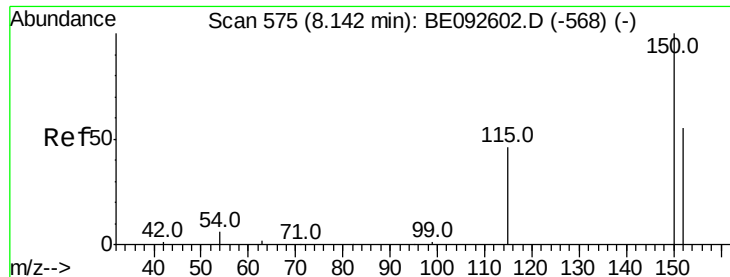
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Quant Time: Dec 28 13:08:15 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 19 16:16:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	10723	5.00	ng	0.00
7) Naphthalene-d8	10.93	136	43543	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	24893	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	45271	5.00	ng	0.00
24) Chrysene-d12	21.72	240	48715	5.00	ng	0.00
31) Perylene-d12	24.08	264	45832	5.00	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	19519	9.38	ng	-0.04
5) Phenol-d6	7.31	99	25024	7.95	ng	-0.07
8) Nitrobenzene-d5	9.32	82	11860	3.97	ng	-0.05
13) 2,4,6-Tribromophenol	16.30	330	3866	5.43	ng	-0.01
14) 2-Fluorobiphenyl	13.42	172	26928	4.52	ng	-0.01
26) Terphenyl-d14	20.16	244	27613	4.62	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.39	88	528	0.27	ng	Qvalue # 1
3) n-Nitrosodimethylamine	3.87	42	32m	0.22	ng	
6) bis(2-Chloroethyl)ether	7.59	93	441	0.25	ng	# 25
9) Naphthalene	10.97	128	1605	0.18	ng	# 87
10) Hexachlorobutadiene	11.26	225	241	0.18	ng	93
11) 2-Methylnaphthalene	12.64	142	861	0.15	ng	97
15) Acenaphthylene	14.51	152	5850	0.17	ng	100
16) Acenaphthene	14.87	154	1048	0.19	ng	92
17) Fluorene	15.86	166	1078	0.15	ng	96
19) Hexachlorobenzene	16.86	284	343m	0.18	ng	
20) Pentachlorophenol	17.26	266	40m	0.15	ng	
21) Phenanthrene	17.60	178	1916	0.17	ng	# 76
22) Anthracene	17.72	178	1552	0.15	ng	# 74
23) Fluoranthene	19.61	202	6936	0.14	ng	98
25) Pyrene	19.97	202	7030	0.16	ng	100
27) Benzo(a)anthracene	21.70	228	6428m	0.15	ng	
28) Chrysene	21.75	228	9759m	0.19	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	527	0.18	ng	# 78
30) Indeno(1,2,3-cd)pyrene	26.60	276	8166	0.18	ng	98
32) Benzo(b)fluoranthene	23.36	252	1647	0.16	ng	# 87
33) Benzo(k)fluoranthene	23.40	252	1992	0.17	ng	# 88
34) Benzo(a)pyrene	23.97	252	1564	0.15	ng	# 82
35) Dibenzo(a,h)anthracene	26.62	278	1599	0.17	ng	# 73
36) Benzo(g,h,i)perylene	27.35	276	7626	0.18	ng	# 85

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

```
Data Path : Z:\HPCHEM1\BNA E\DATA\BE122716\  
Data File : BE092625.D  
Acq On    : 27 Dec 2016 17:55  
Operator  : UM/SJ  
Sample    : H6103-02  
Misc      :  
ALS Vial  : 10      Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

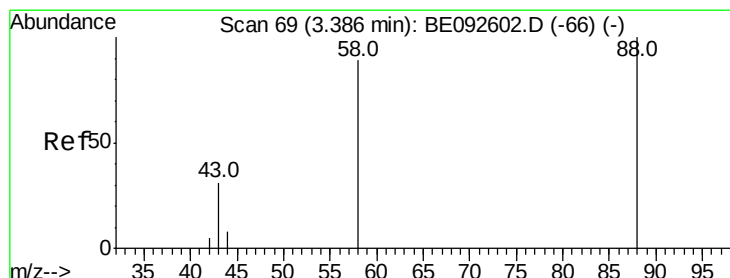
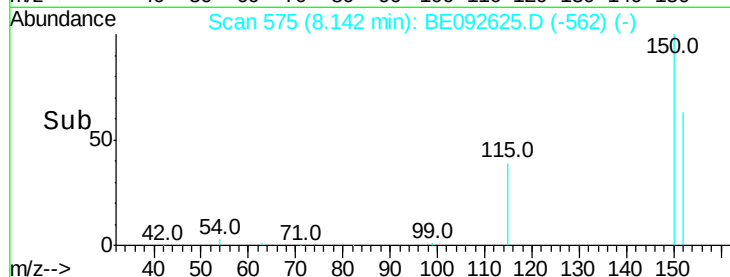
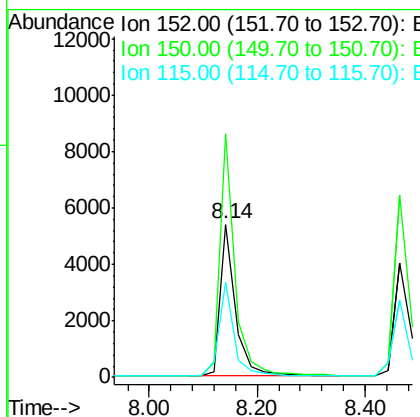
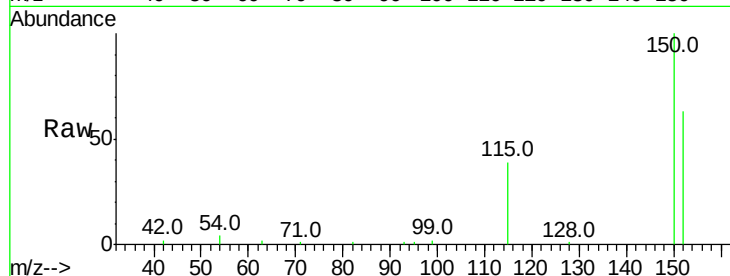
ClientSampleId :

LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.2	106.0	159.0#
115	61.9	31.2	46.8#

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#2

1,4-Dioxane

Concen: 0.27 ng

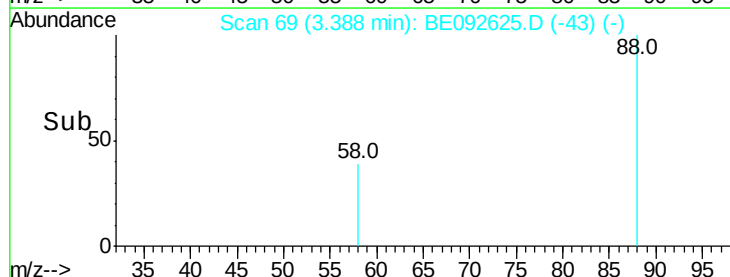
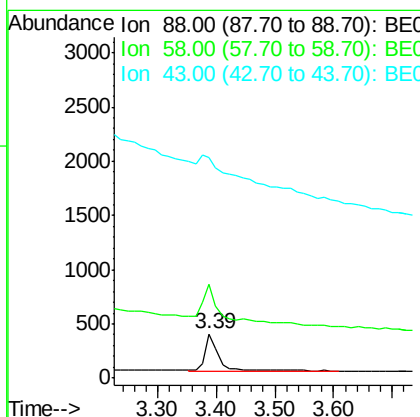
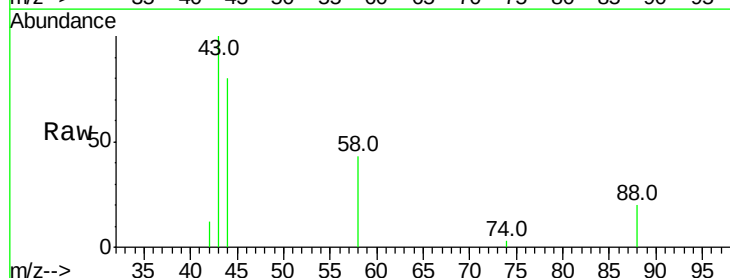
RT: 3.39 min Scan# 69

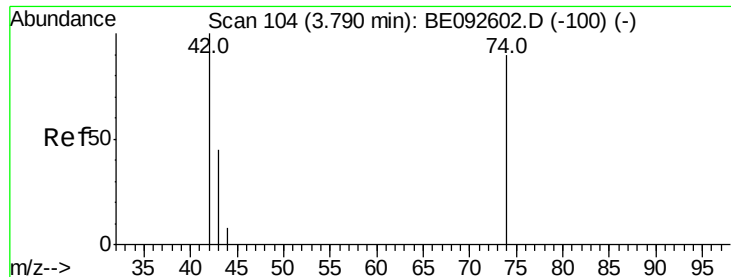
Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
88	100		
58	225.9	63.6	95.4#
43	0.0	28.0	42.0#





#3

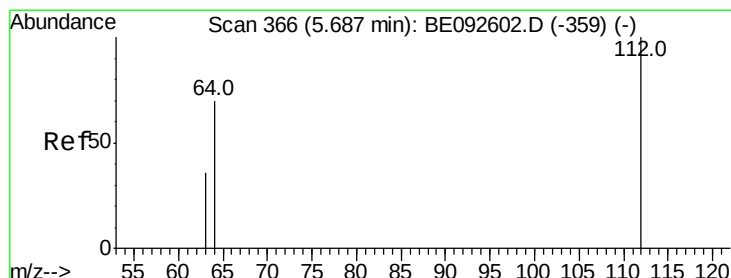
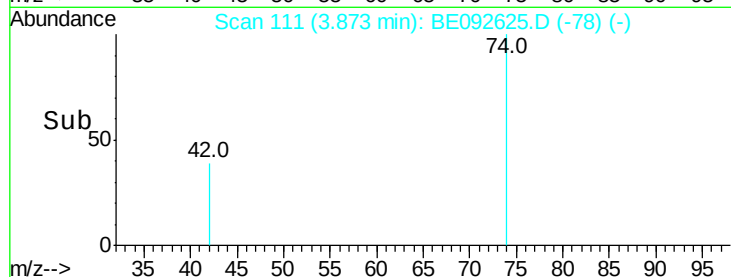
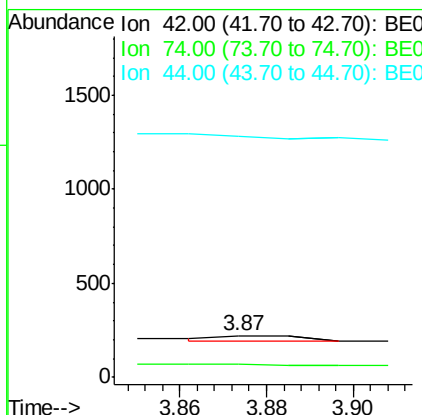
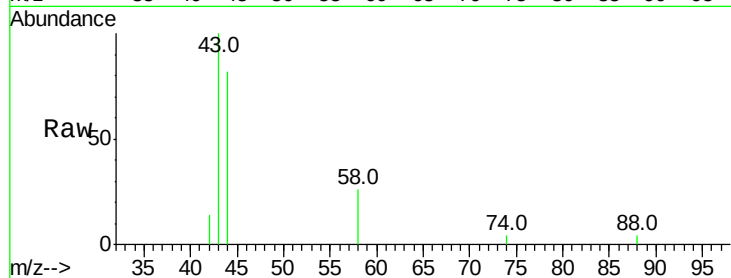
n-Nitrosodimethylamine
Concen: 0.22 ng/ml
RT: 3.87 min Scan# 111
Delta R.T. 0.08 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
42	100		
74	0.0	86.0	129.0#
44	0.0	5.1	7.7#

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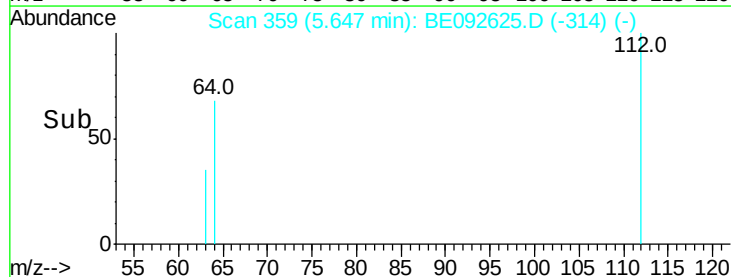
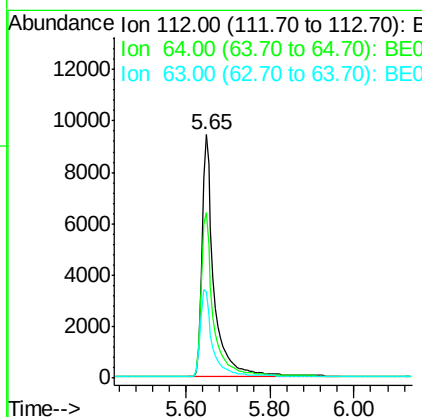
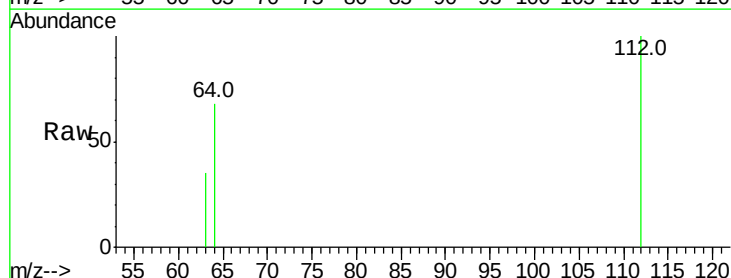
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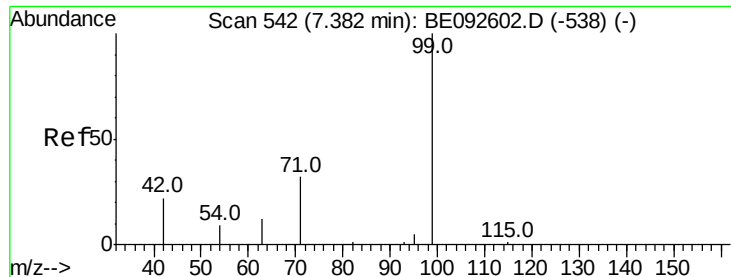


#4

2-Fluorophenol
Concen: 9.38 ng
RT: 5.65 min Scan# 359
Delta R.T. -0.04 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.7	53.5	80.3
63	36.8	27.9	41.9





#5

Phenol-d6

Concen: 7.95 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.07 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

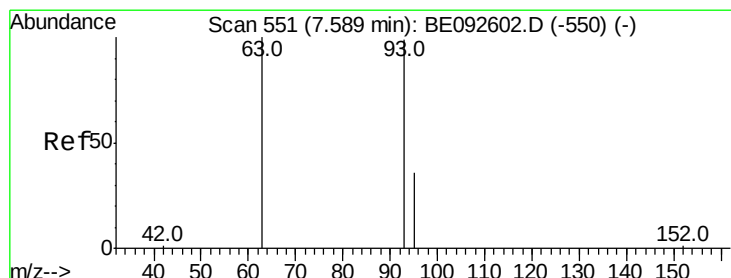
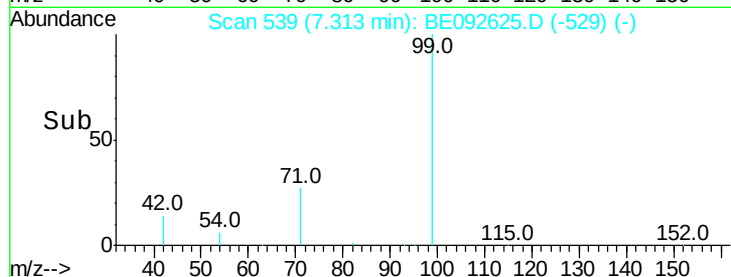
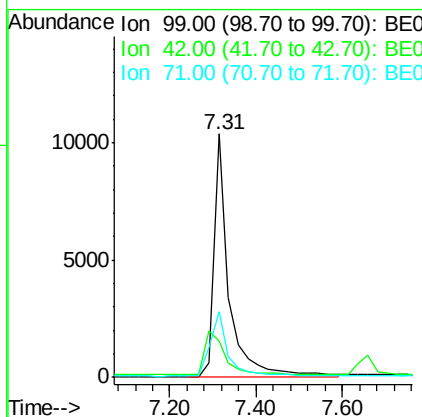
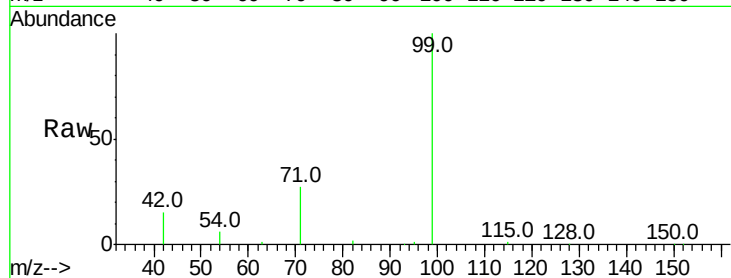
ClientSampleId :

LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Resp	Lower	Upper
99	100	25024		
42	0.0	16.0	24.0#	
71	33.1	30.6	45.8	

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#6

bis(2-Chloroethyl)ether

Concen: 0.25 ng

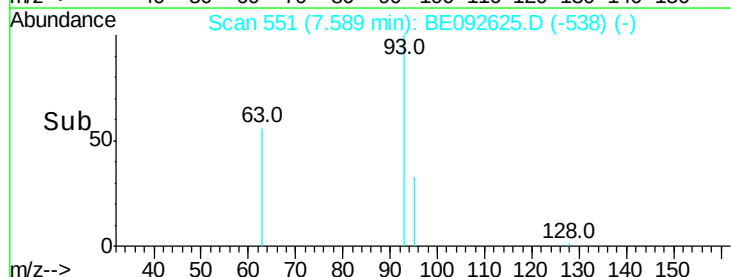
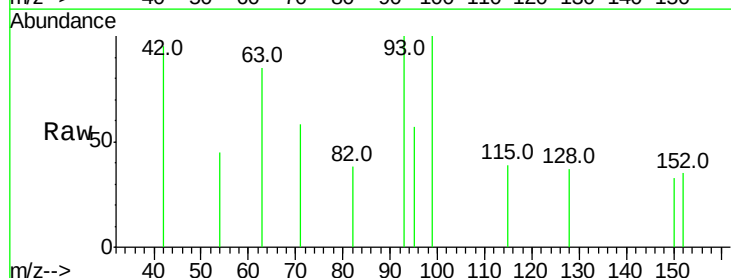
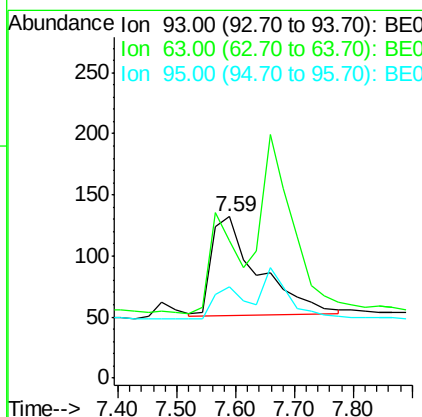
RT: 7.59 min Scan# 551

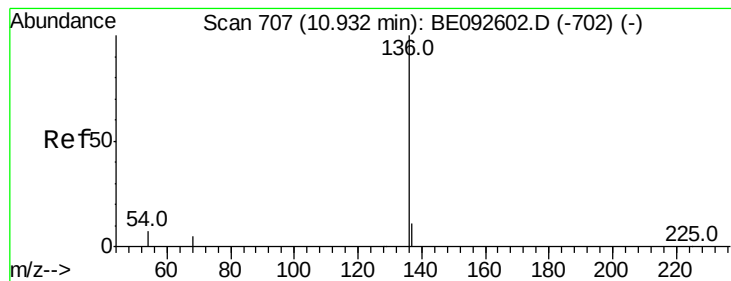
Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	441		
63	0.0	71.6	107.4#	
95	22.0	24.0	36.0#	





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

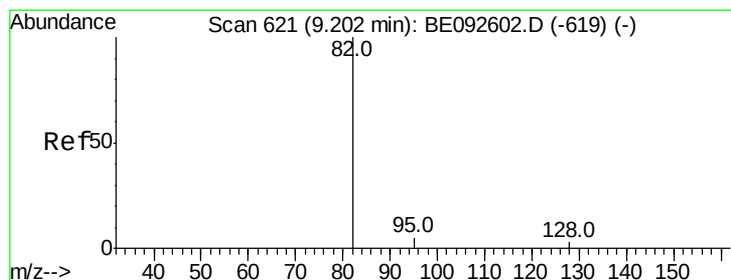
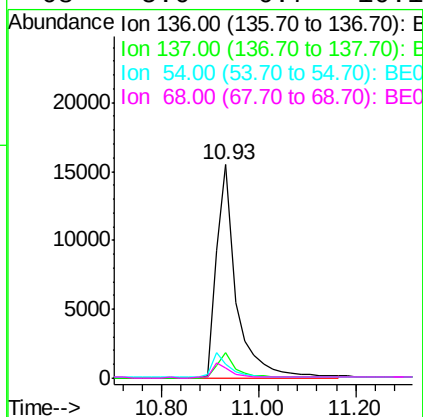
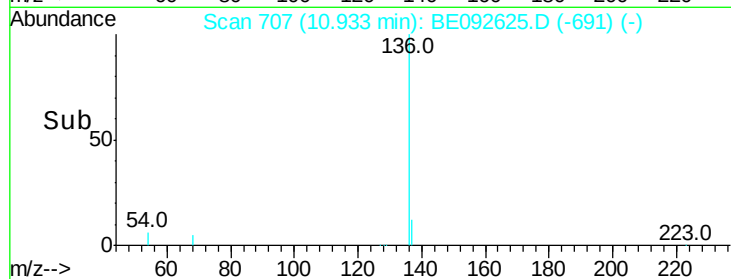
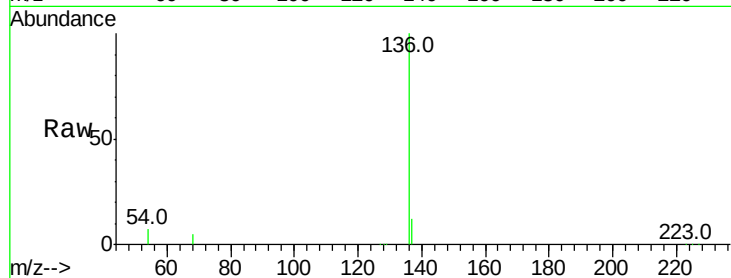
ClientSampleId :

LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.9	8.2	12.4	
54	6.8	9.6	14.4	#
68	5.0	6.7	10.1	#

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#8

Nitrobenzene-d5

Concen: 3.97 ng

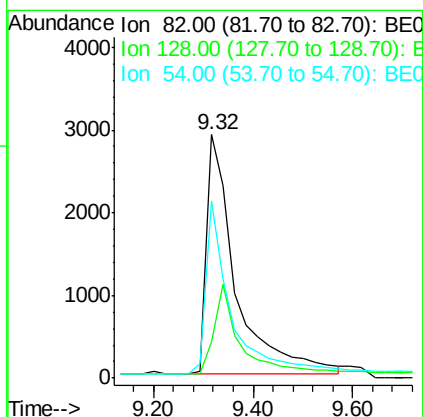
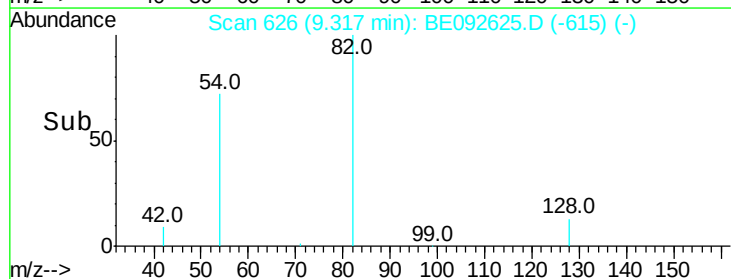
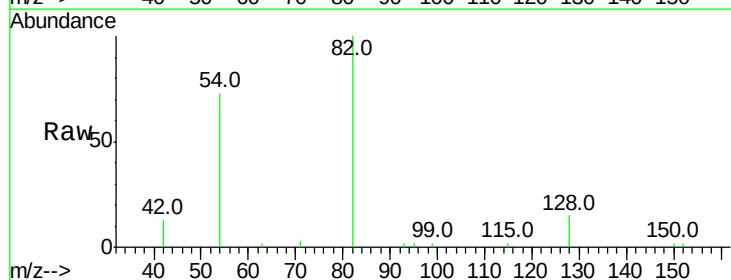
RT: 9.32 min Scan# 626

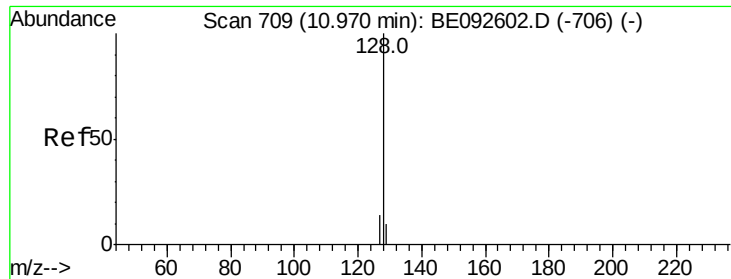
Delta R.T. -0.05 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	14.7	39.0	58.4	#
54	72.9	44.8	67.2	#





#9

Naphthalene

Concen: 0.18 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

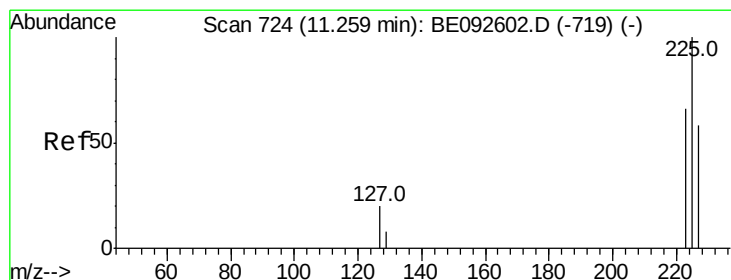
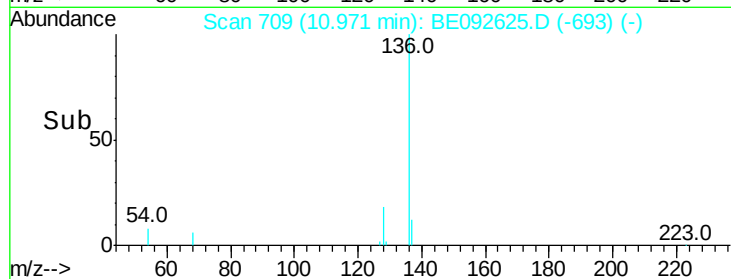
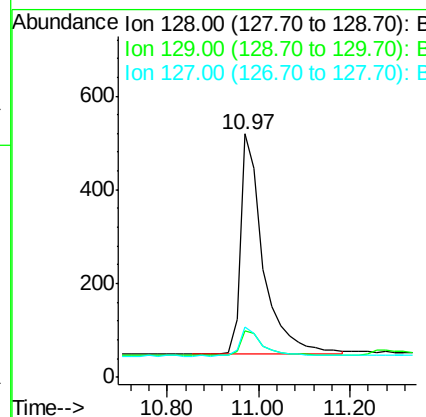
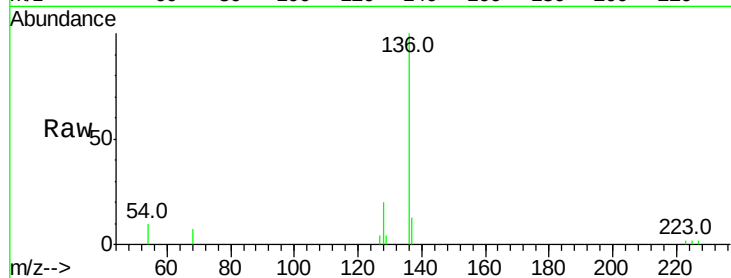
ClientSampleId :

LOQ-SOIL-02-QT1-2017

Tot Ion:	128	Resp:	1605
Ion Ratio	Lower	Upper	
128	100		
129	18.9	11.2	16.8#
127	20.6	11.6	17.4#

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#10

Hexachlorobutadiene

Concen: 0.18 ng

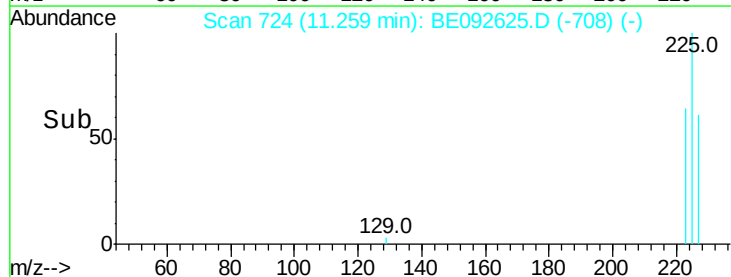
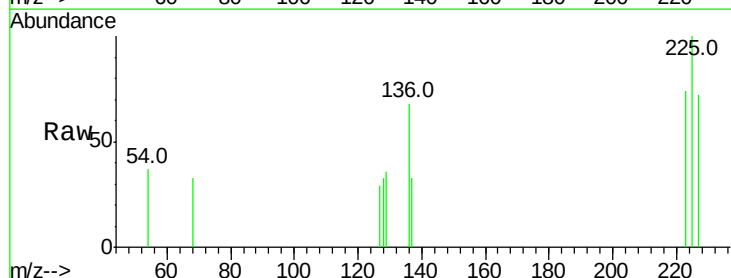
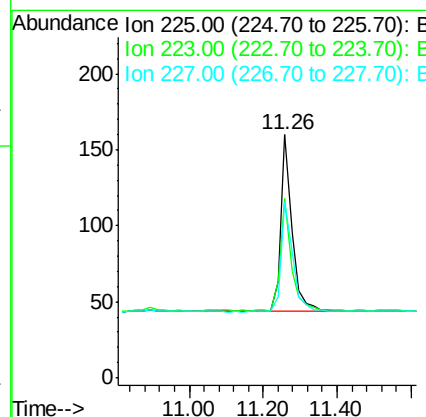
RT: 11.26 min Scan# 724

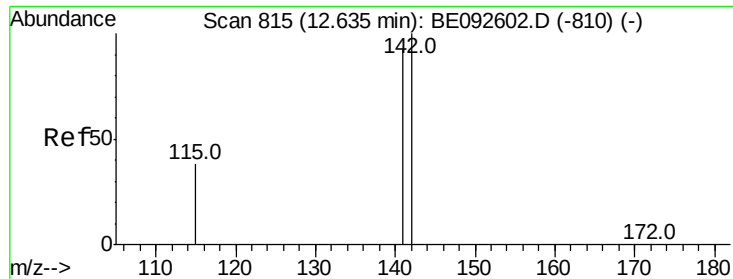
Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion:	225	Resp:	241
Ion Ratio	Lower	Upper	
225	100		
223	67.6	50.6	76.0
227	71.0	51.4	77.0





#11

2-Methylnaphthalene

Concen: 0.15 ng

RT: 12.64 min Scan# 815

Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

ClientSampleId :

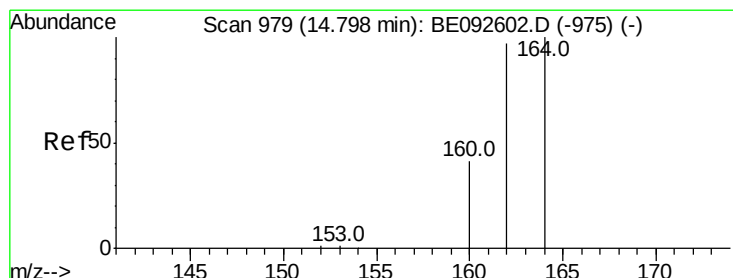
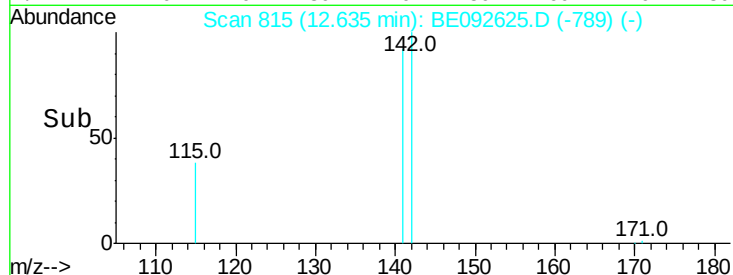
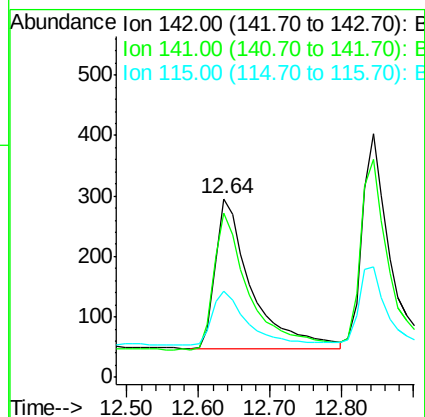
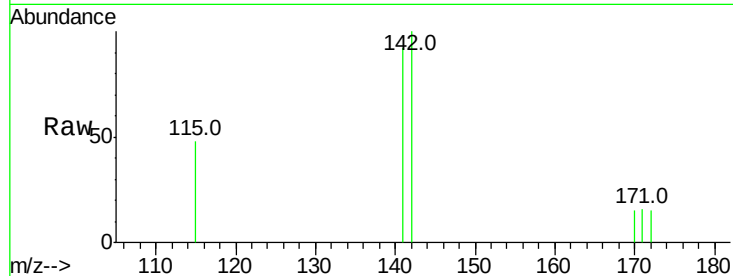
LOQ-SOIL-02-QT1-2017

Tot Ion:142 Resp: 861

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.7	110.5
115	48.3	34.0	51.0

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

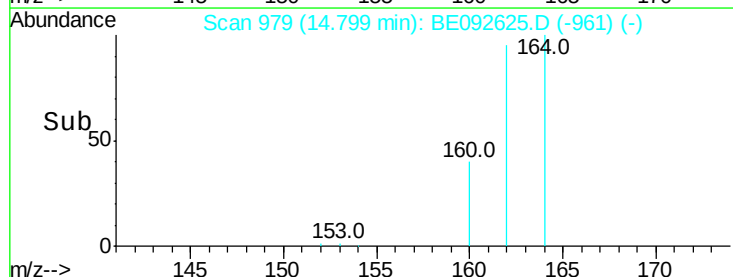
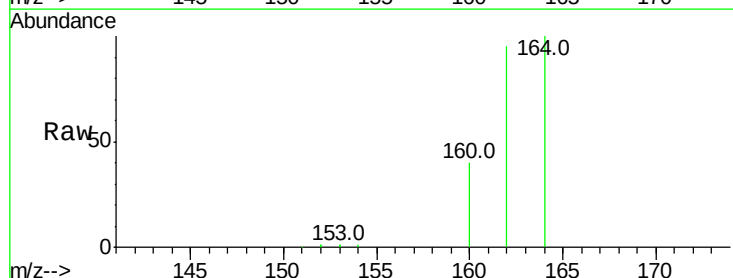
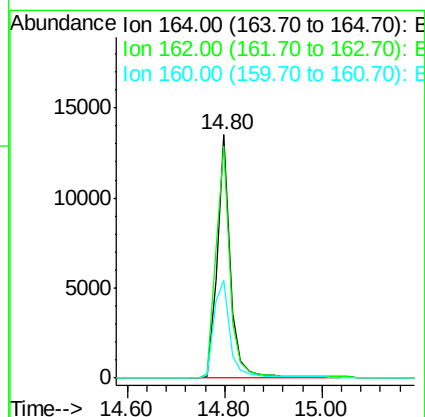
Delta R.T. 0.00 min

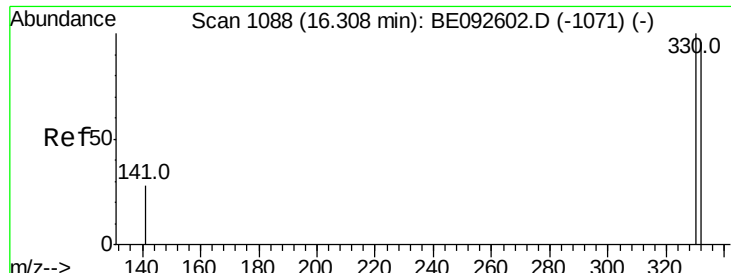
Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion:164 Resp: 24893

Ion	Ratio	Lower	Upper
164	100		
162	95.3	71.4	107.0
160	40.2	27.4	41.2





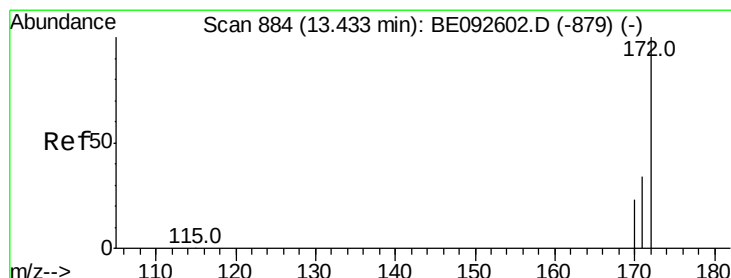
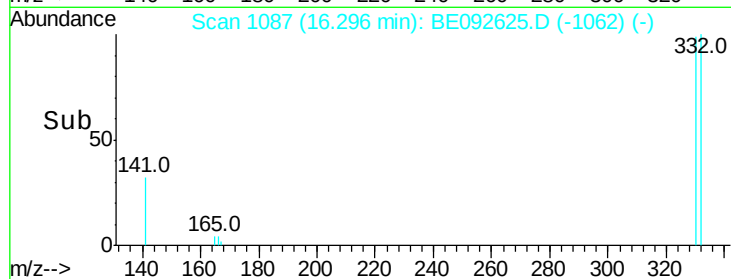
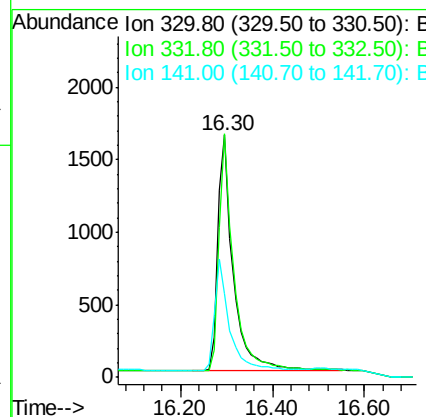
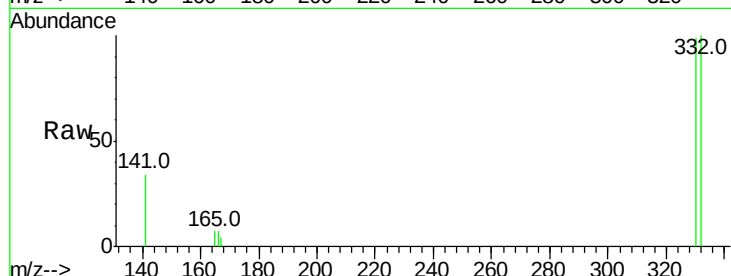
#13
 2,4,6-Tribromophenol
 Concen: 5.43 ng
 RT: 16.30 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: BE092625.D
 Acq: 27 Dec 2016 17:55

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.2	75.4	113.0
141	45.1	31.0	46.6

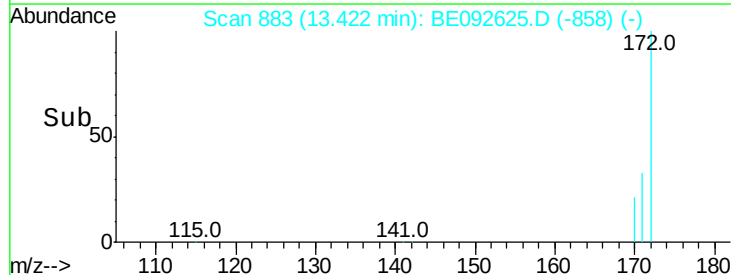
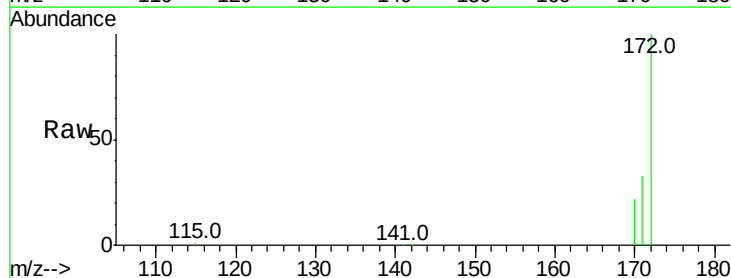
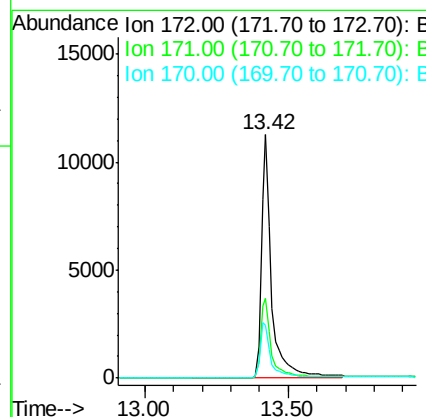
Manual Integrations
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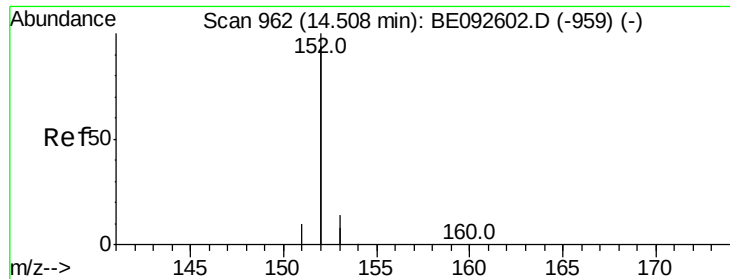
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#14
 2-Fluorobiphenyl
 Concen: 4.52 ng
 RT: 13.42 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BE092625.D
 Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.9	30.1	45.1
170	21.6	21.8	32.6#





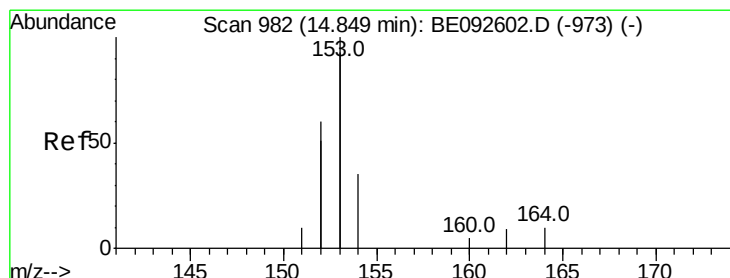
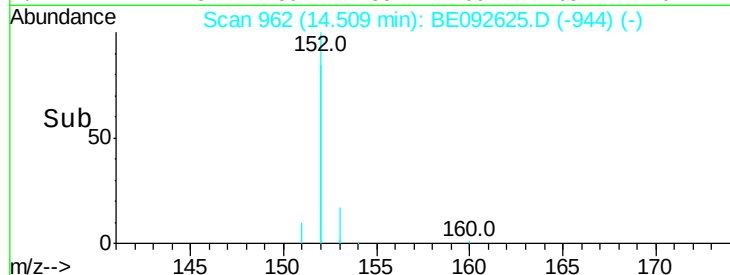
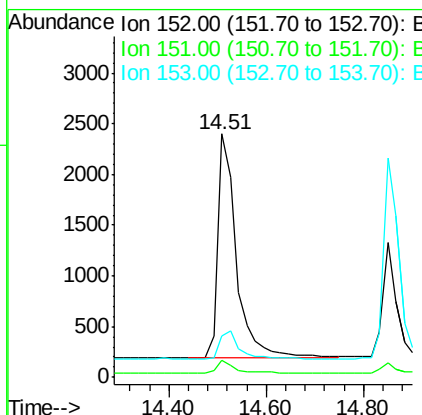
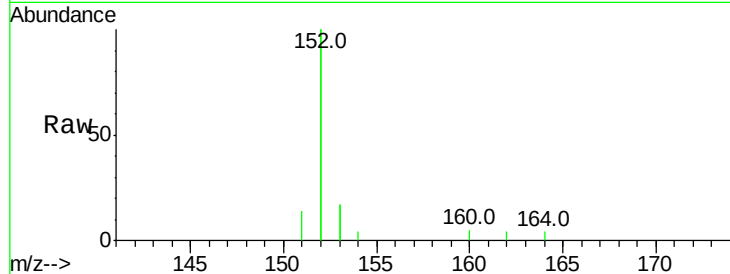
#15
Acenaphthylene
Concen: 0.17 ng
RT: 14.51 min Scan# 962
Delta R.T. 0.00 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	12.9	10.4	15.6

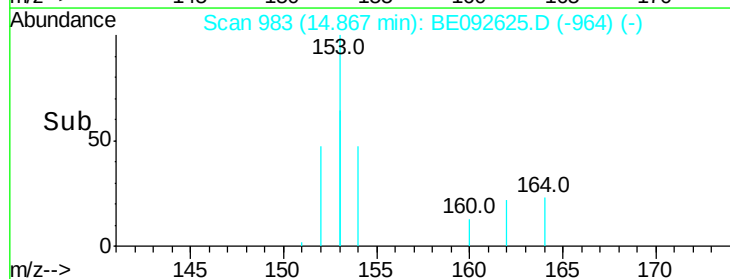
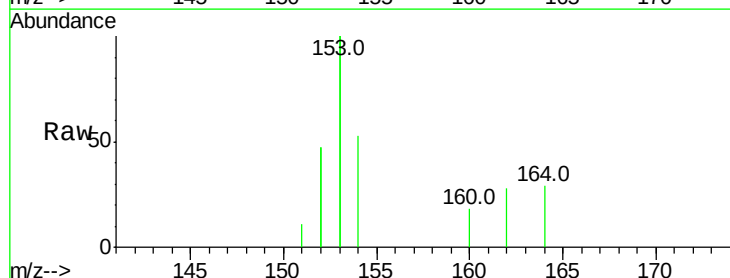
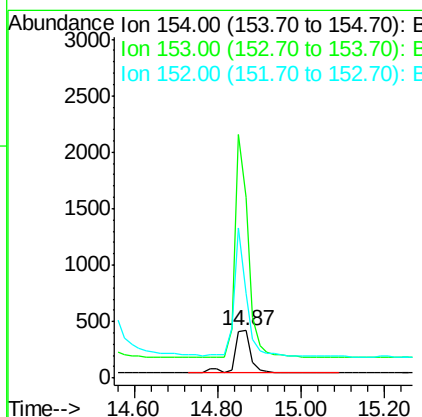
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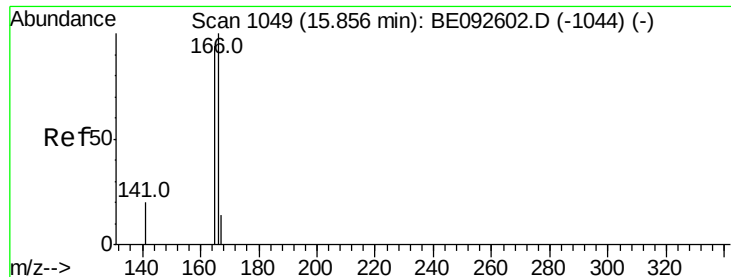
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#16
Acenaphthene
Concen: 0.19 ng
RT: 14.87 min Scan# 983
Delta R.T. 0.02 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
154	100		
153	415.1	350.8	526.2
152	220.0	171.1	256.7





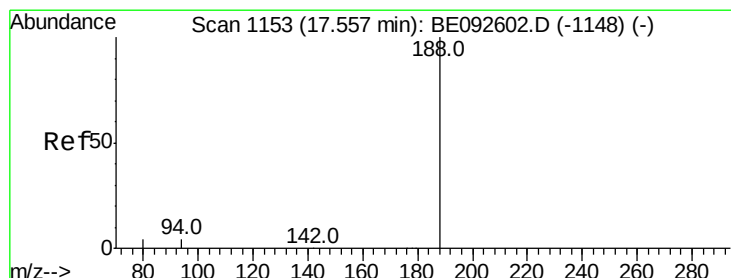
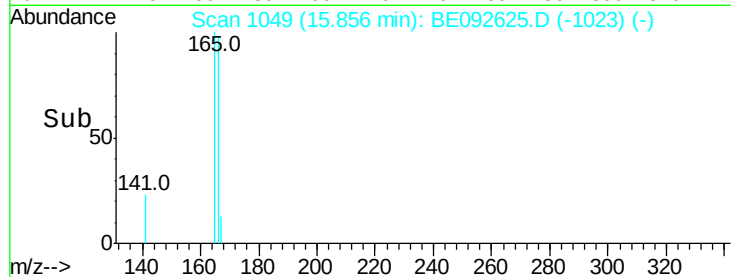
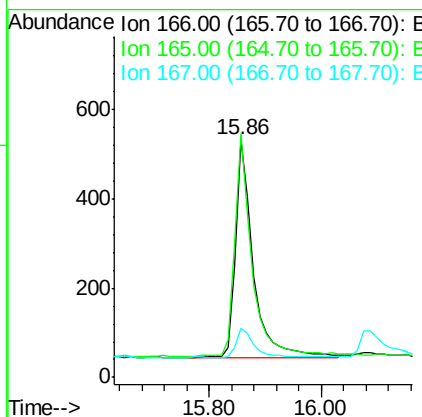
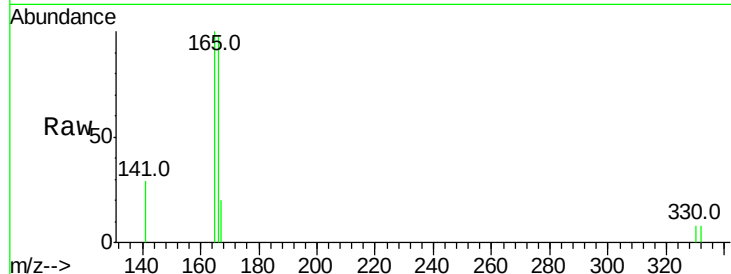
#17
Fluorene
Concen: 0.15 ng
RT: 15.86 min Scan# 1049
Delta R.T. 0.00 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.1	78.2	117.4
167	13.8	11.0	16.4

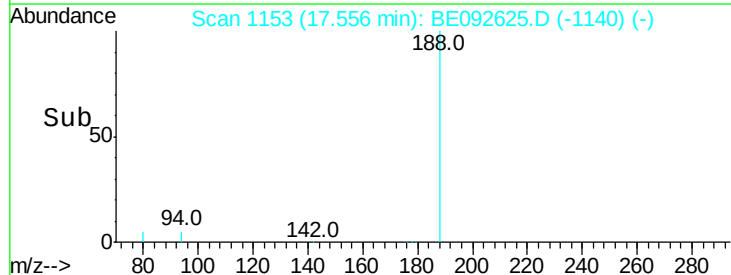
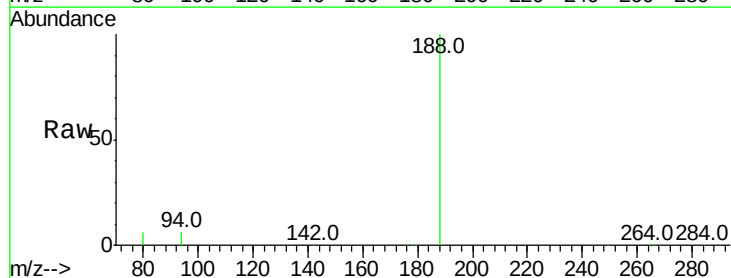
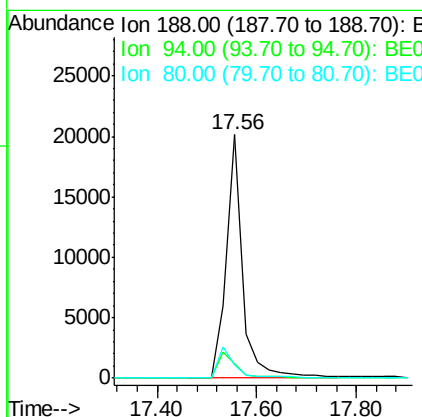
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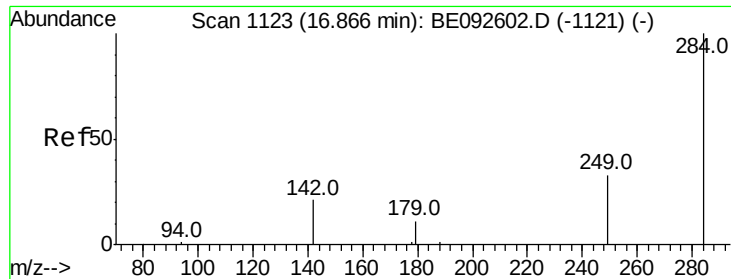
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.7	3.2	4.8#
80	5.5	2.6	3.8#





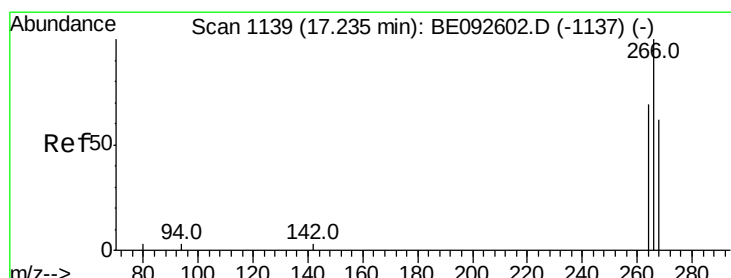
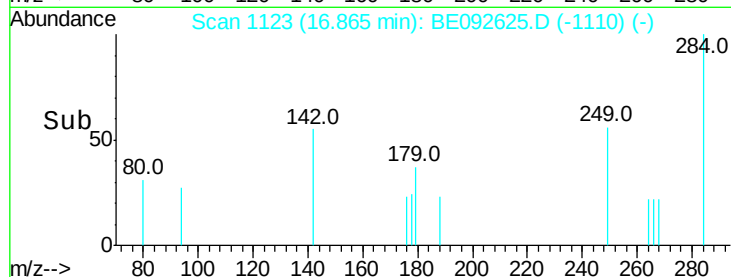
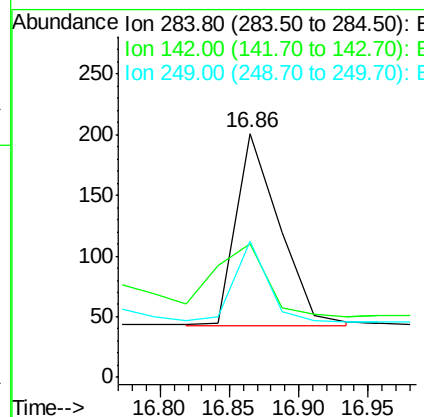
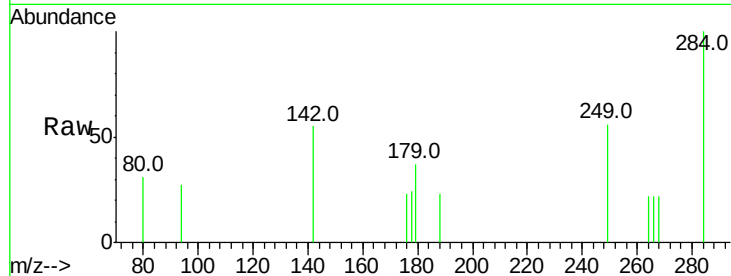
#19
Hexachlorobenzene
Concen: 0.18 ng m
RT: 16.86 min Scan# 1123
Delta R.T. -0.00 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
284	100		
142	490.1	29.1	43.7#
249	85.7	27.9	41.9#

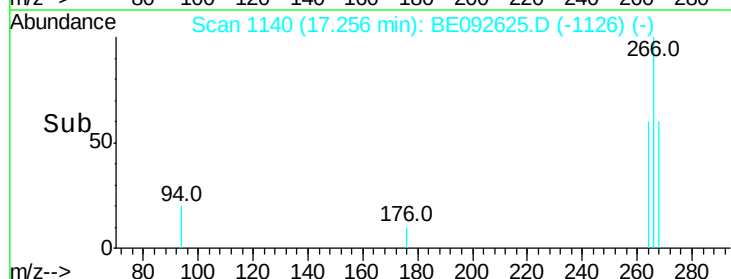
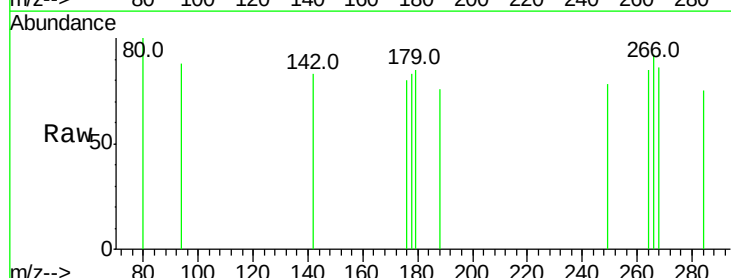
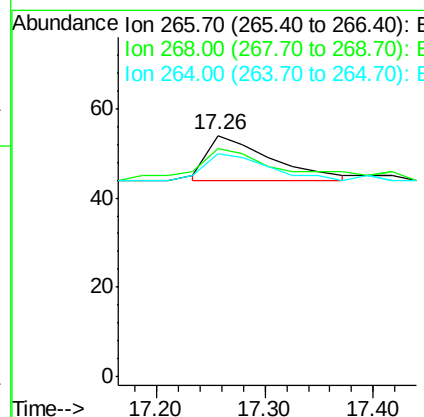
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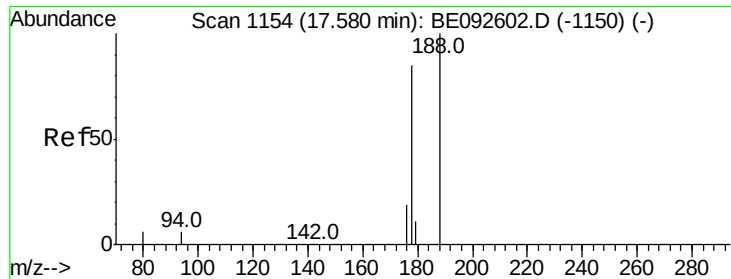
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#20
Pentachlorophenol
Concen: 0.15 ng m
RT: 17.26 min Scan# 1140
Delta R.T. 0.02 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
266	100		
268	94.4	62.5	93.7#
264	92.6	57.2	85.8#





#21

Phenanthrene

Concen: 0.17 ng

RT: 17.60 min Scan# 1155

Delta R.T. 0.02 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

ClientSampleId :

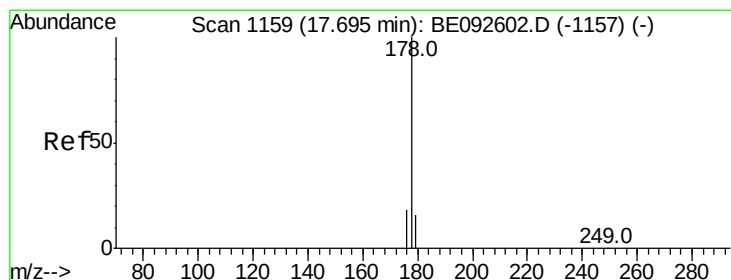
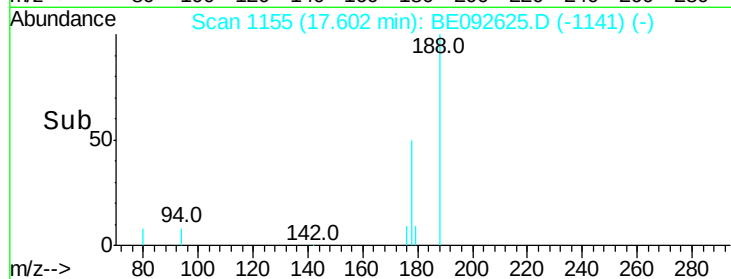
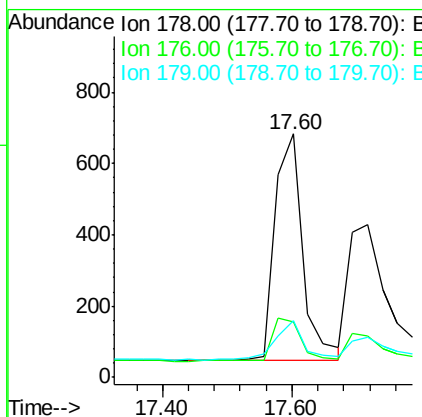
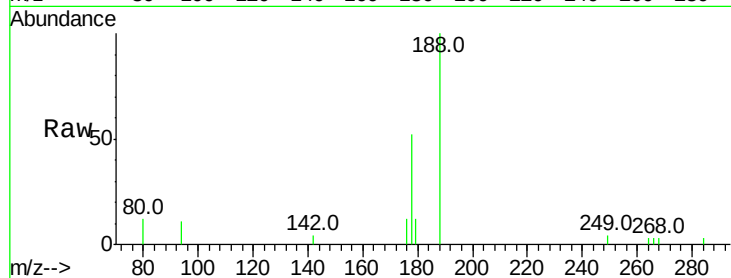
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Tot Ion:178 Resp: 1916

Ion	Ratio	Lower	Upper
178	100		
176	0.0	15.8	23.8#
179	18.1	16.0	24.0

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#22

Anthracene

Concen: 0.15 ng

RT: 17.72 min Scan# 1160

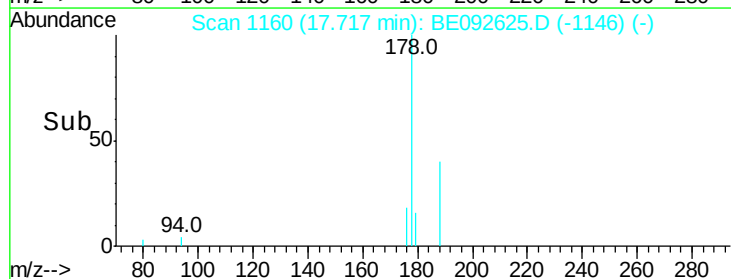
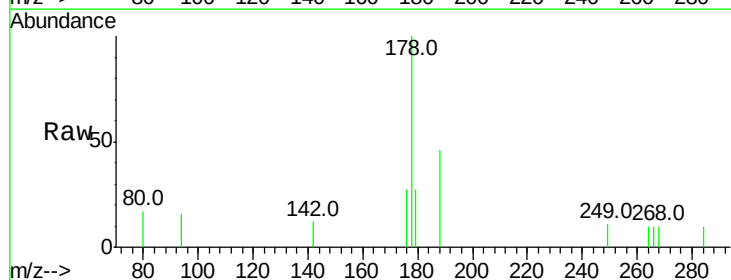
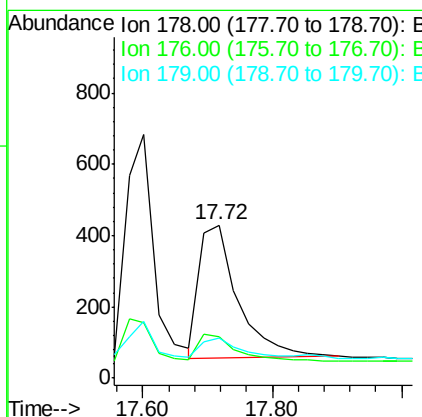
Delta R.T. 0.02 min

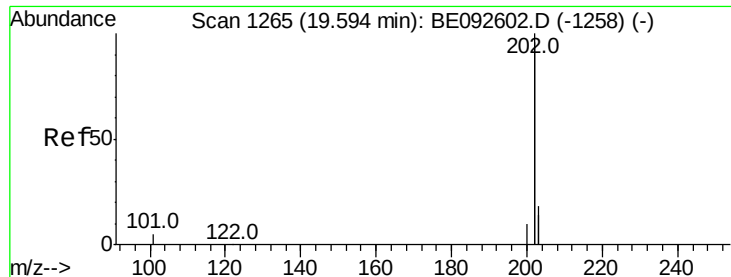
Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion:178 Resp: 1552

Ion	Ratio	Lower	Upper
178	100		
176	0.0	15.0	22.4#
179	18.2	12.2	18.2





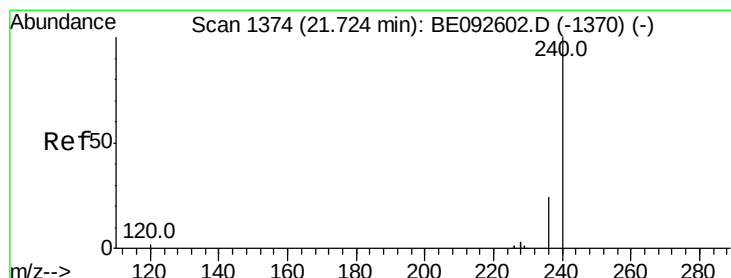
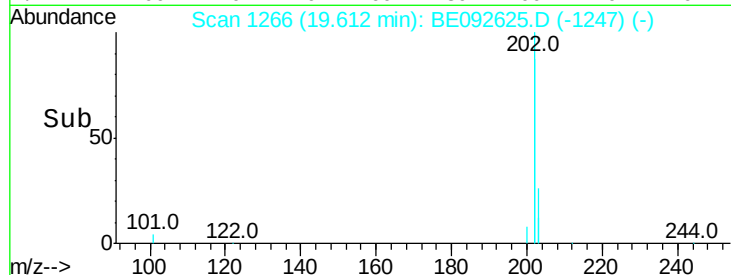
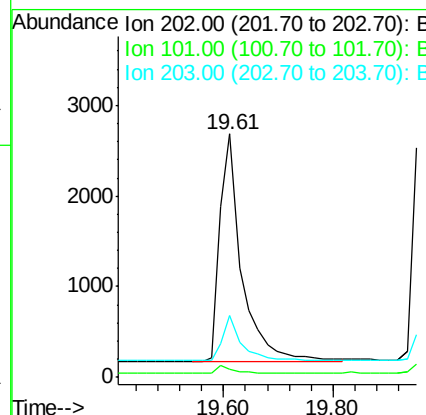
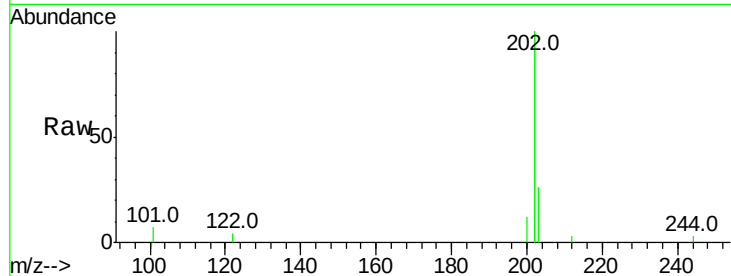
#23
 Fluoranthene
 Concen: 0.14 ng
 RT: 19.61 min Scan# 1266
 Delta R.T. 0.02 min
 Lab File: BE092625.D
 Acq: 27 Dec 2016 17:55

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
202	100		
101	2.9	2.2	3.4
203	17.9	13.7	20.5

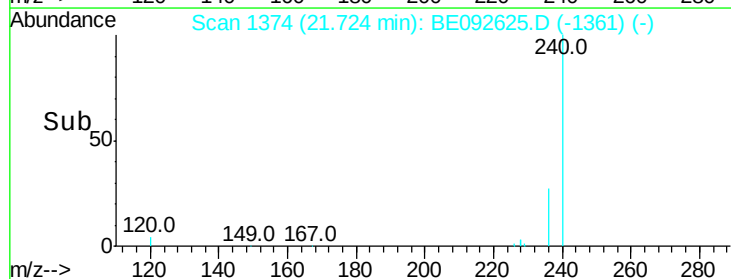
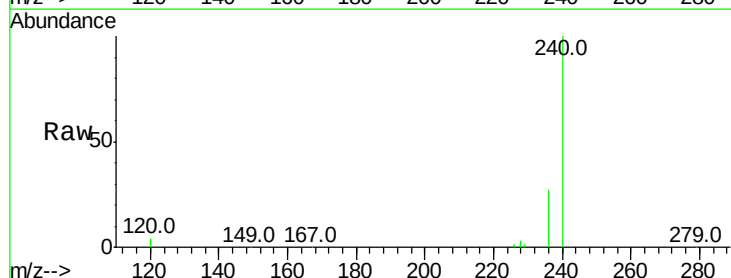
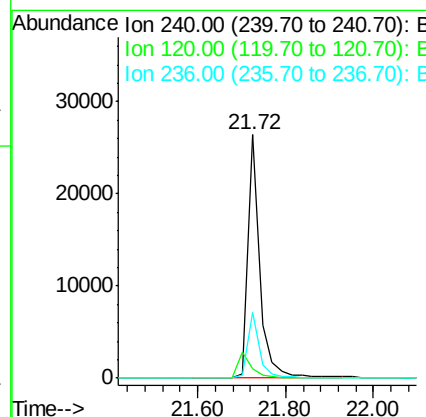
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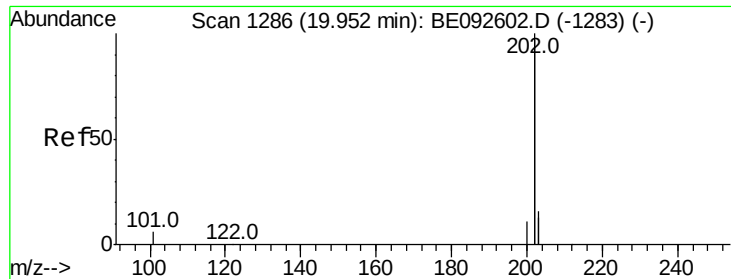
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#24
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.72 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: BE092625.D
 Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
240	100		
120	4.0	2.6	4.0#
236	27.1	24.6	37.0





#25

Pvrene

Concen: 0.16 ng

RT: 19.97 min Scan# 1287

Delta R.T. 0.02 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

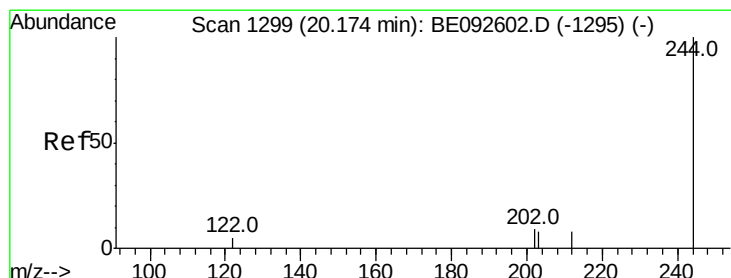
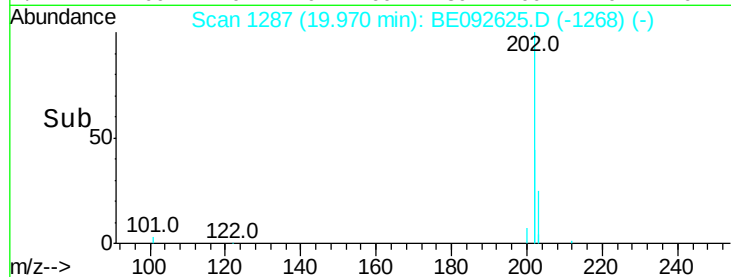
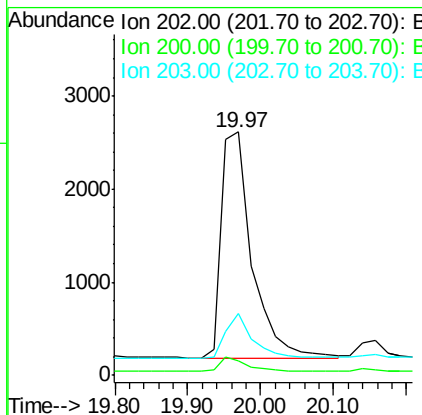
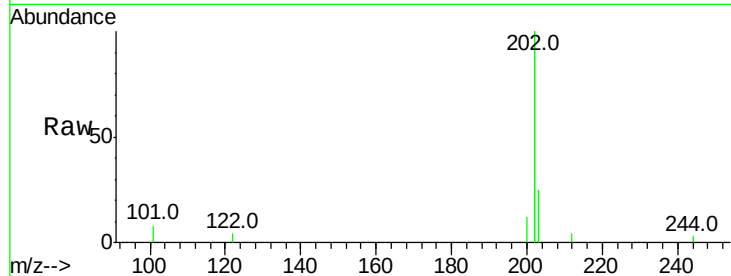
ClientSampleId :

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Tot Ion:	202	Resp:	7030
Ion Ratio	Lower	Upper	
202	100		
200	5.3	4.2	6.4
203	17.3	13.9	20.9

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#26

Terphenyl-d14

Concen: 4.62 ng

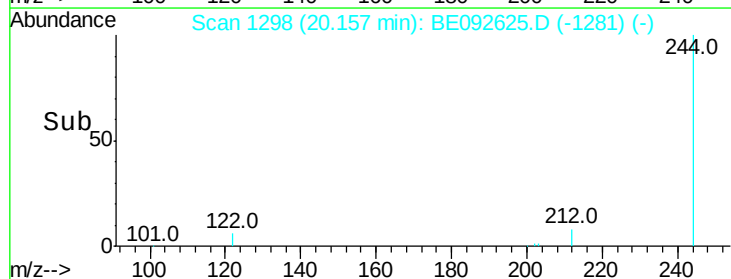
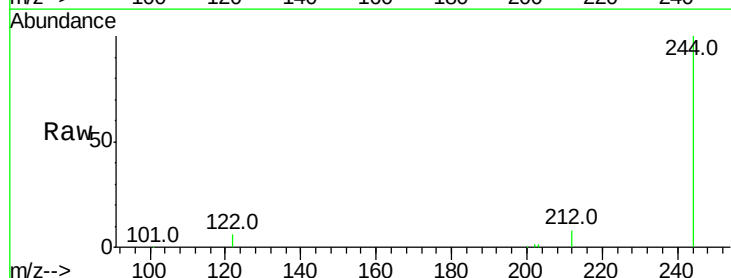
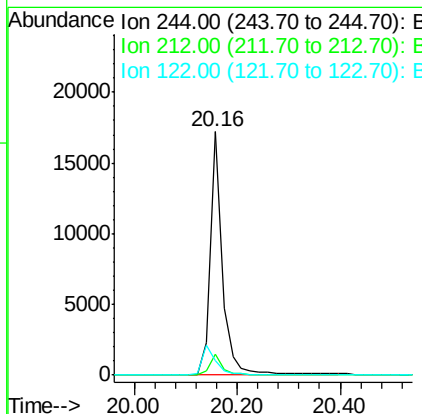
RT: 20.16 min Scan# 1298

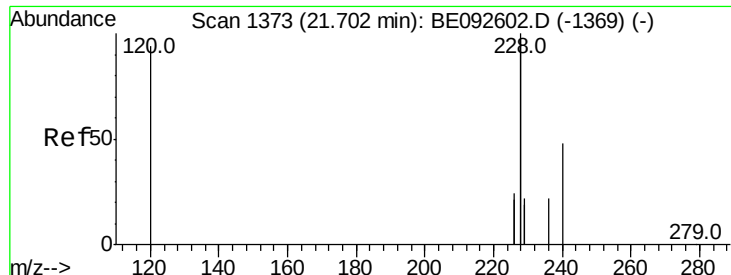
Delta R.T. -0.02 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion:	244	Resp:	27613
Ion Ratio	Lower	Upper	
244	100		
212	8.5	6.7	10.1
122	6.1	3.6	5.4#





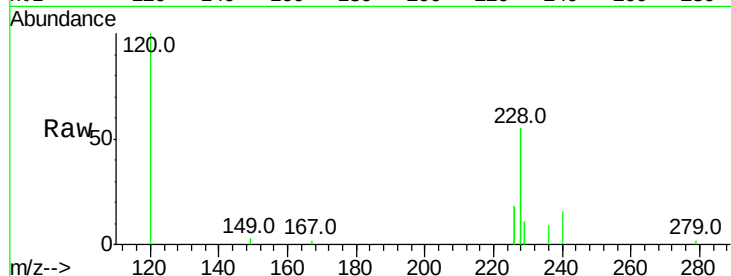
#27
Benzo(a)anthracene
Concen: 0.15 ng m
RT: 21.70 min Scan# 1373
Delta R.T. 0.00 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT1-2017

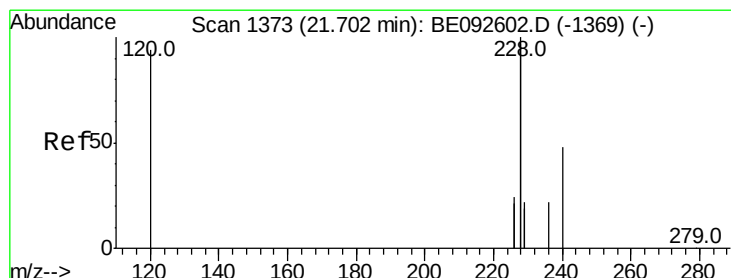
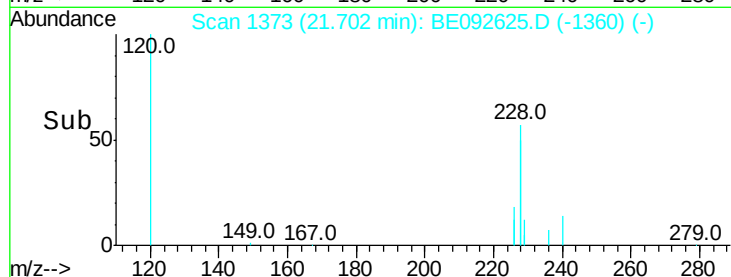
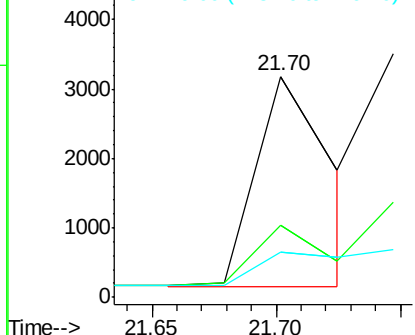
Tot Ion	Ratio	Lower	Upper
228	100		
226	32.5	23.6	35.4
229	20.5	13.3	19.9

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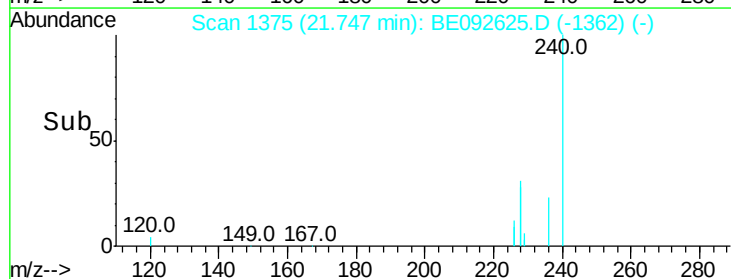
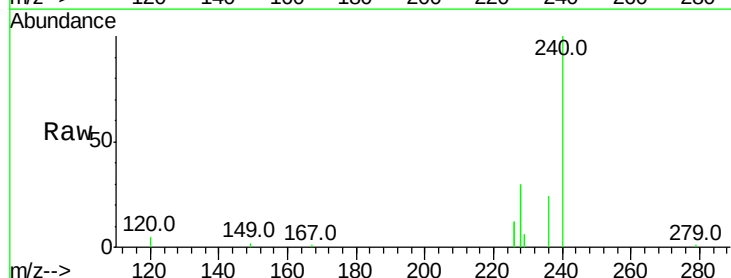
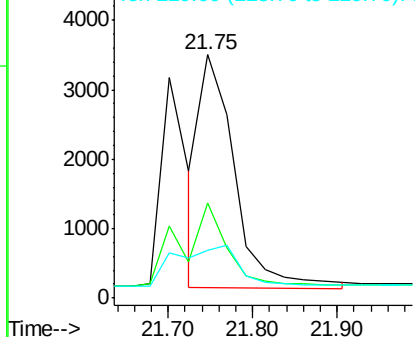
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

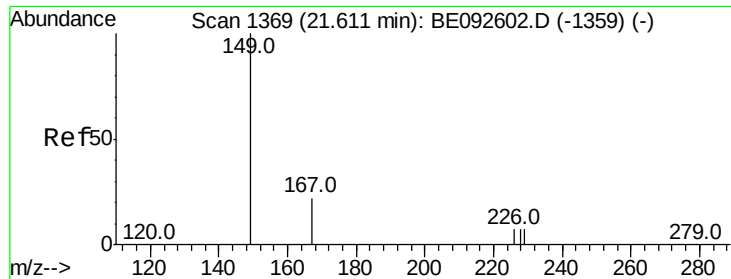


#28
Chrysene
Concen: 0.19 ng m
RT: 21.75 min Scan# 1375
Delta R.T. 0.00 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.0	36.3	54.5
229	19.4	10.6	16.0

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





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.18 ng

RT: 21.61 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Instrument :

BNA_E

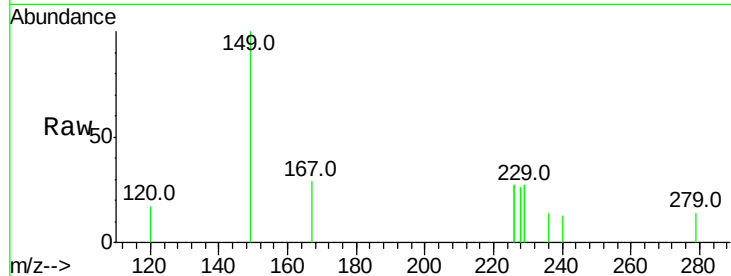
ClientSampleId :

LOQ-SOIL-02-QT1-2017

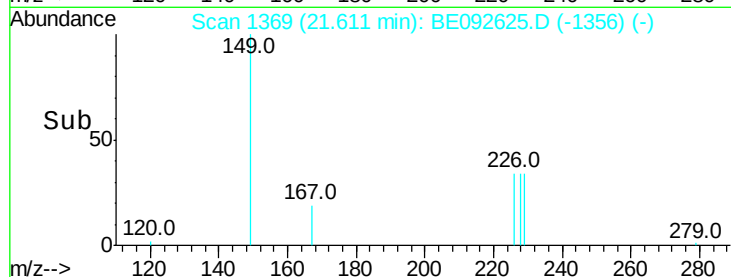
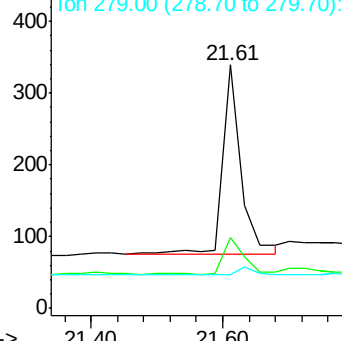
Tot Ion:	149	Resp:	527
Ion Ratio	Lower	Upper	
149	100		
167	20.3	16.0	24.0
279	0.0	16.0	24.0#

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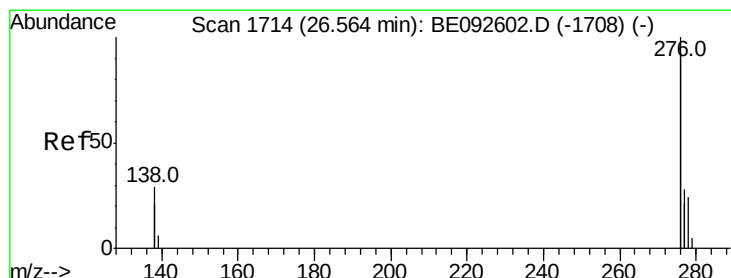
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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



Time-->



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.18 ng

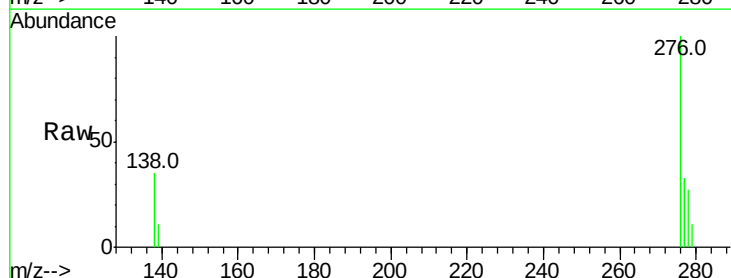
RT: 26.60 min Scan# 1716

Delta R.T. 0.03 min

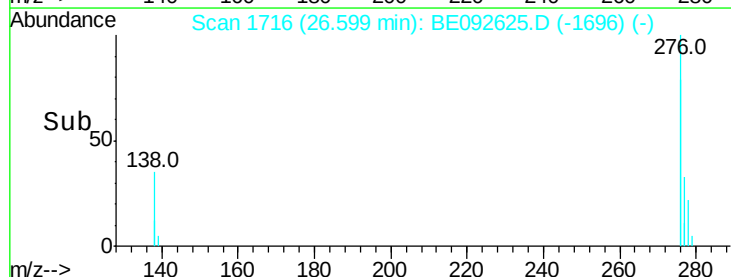
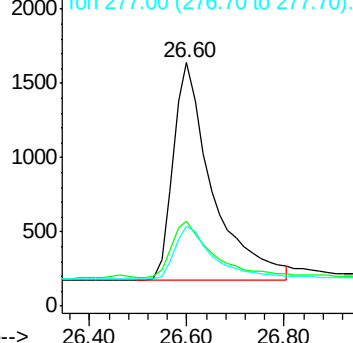
Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

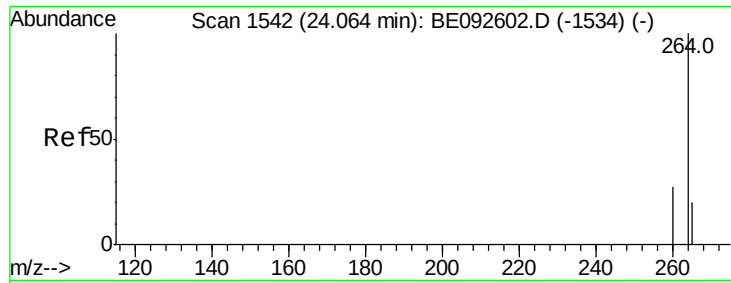
Tgt Ion:	276	Resp:	8166
Ion Ratio	Lower	Upper	
276	100		
138	27.0	20.3	30.5
277	24.5	19.7	29.5



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



Time-->



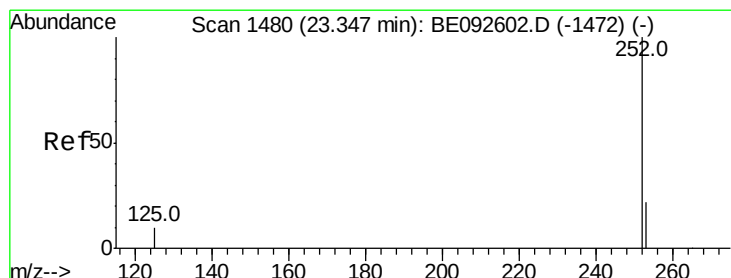
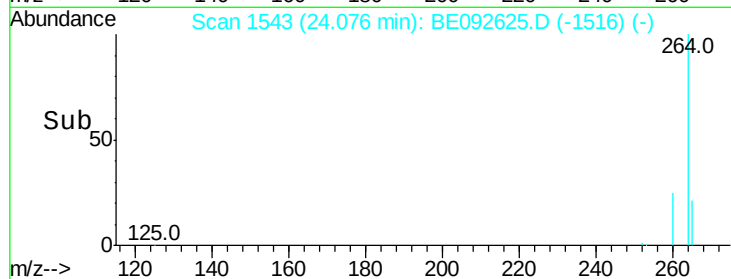
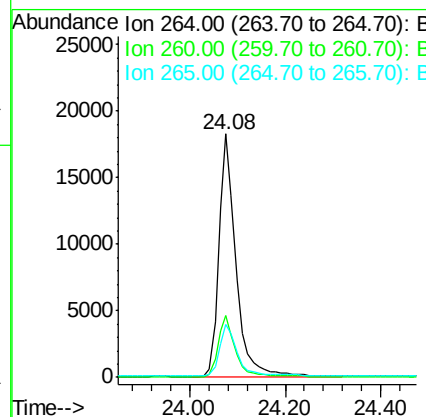
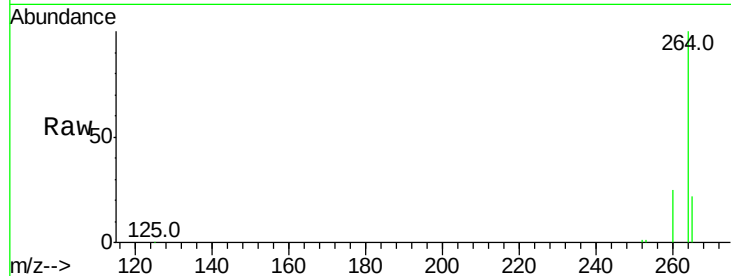
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.08 min Scan# 1543
Delta R.T. 0.01 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.2	20.1	30.1
265	21.7	17.9	26.9

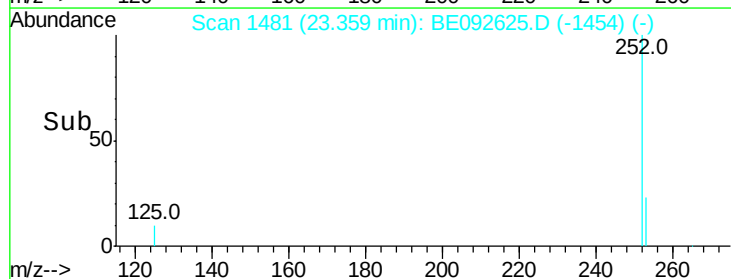
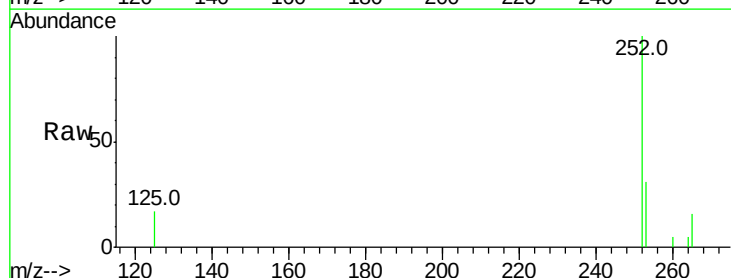
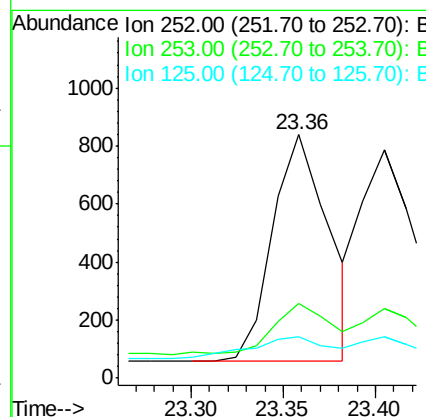
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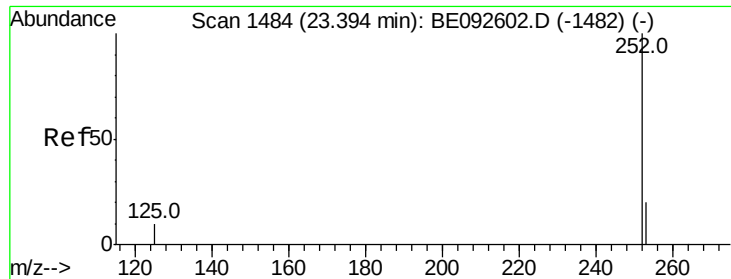
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#32
Benzo(b)fluoranthene
Concen: 0.16 ng
RT: 23.36 min Scan# 1481
Delta R.T. 0.01 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.9	18.7	28.1#
125	16.9	10.5	15.7#





#33

Benzo(k)fluoranthene

Concen: 0.17 ng

RT: 23.40 min Scan# 1485

Delta R.T. 0.01 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

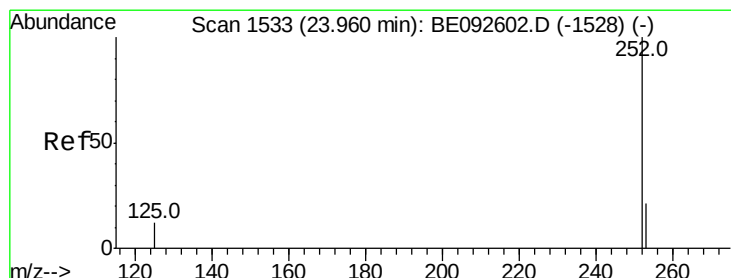
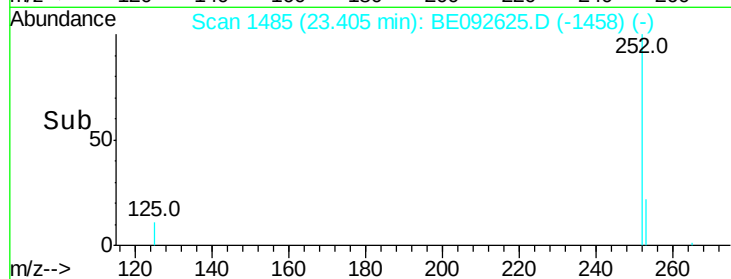
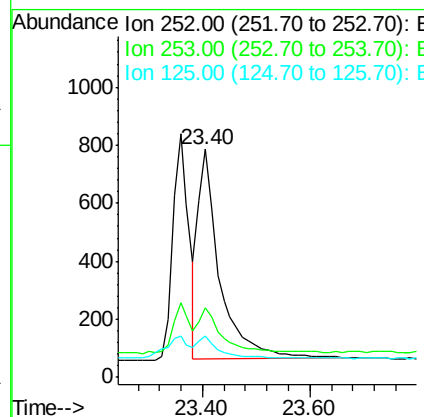
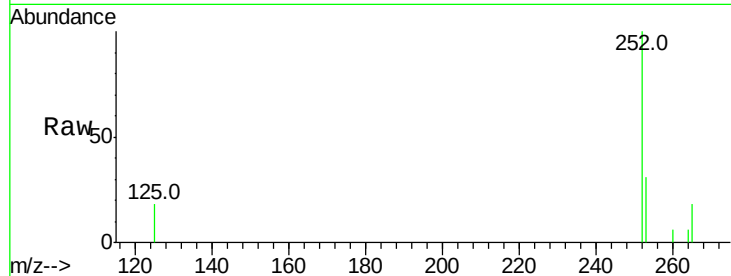
Instrument :
BNA_E

ClientSampleId :
LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
252	100		
253	30.8	20.3	30.5#
125	17.9	9.6	14.4#

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#34

Benzo(a)pyrene

Concen: 0.15 ng

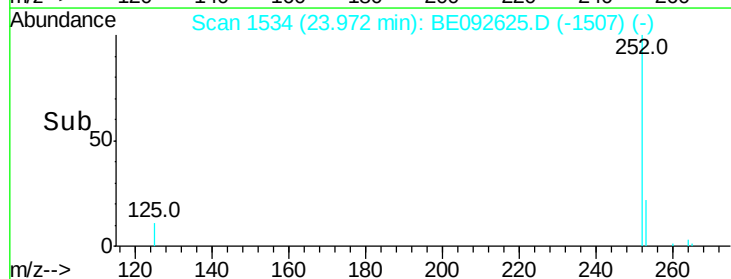
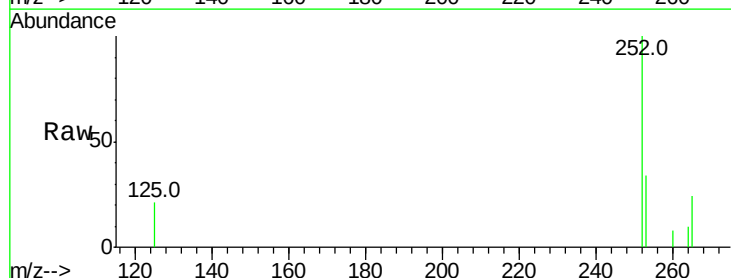
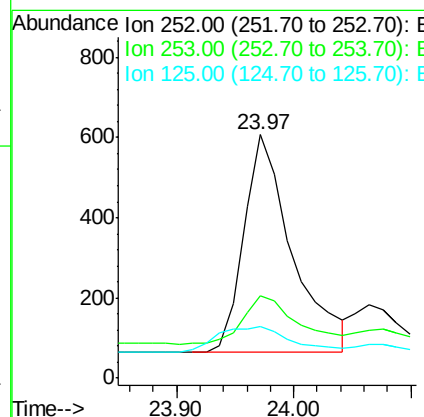
RT: 23.97 min Scan# 1534

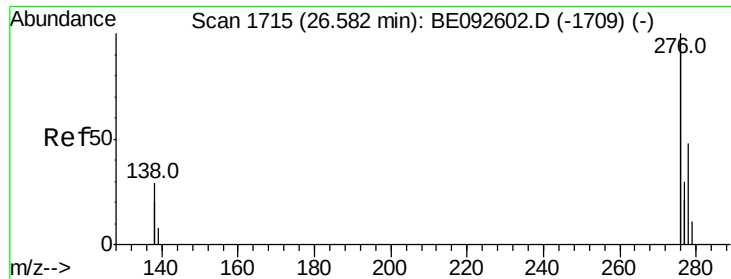
Delta R.T. 0.01 min

Lab File: BE092625.D

Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.8	19.0	28.6#
125	21.1	11.8	17.8#





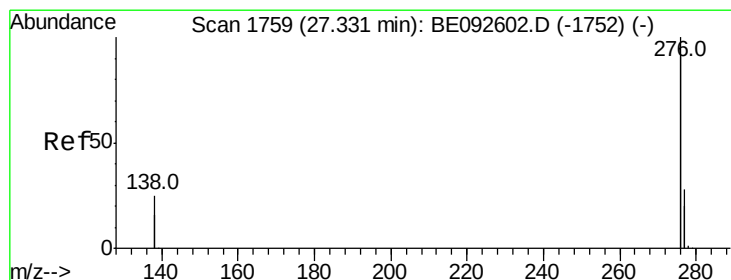
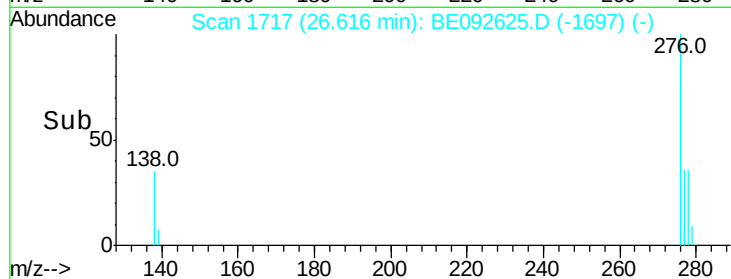
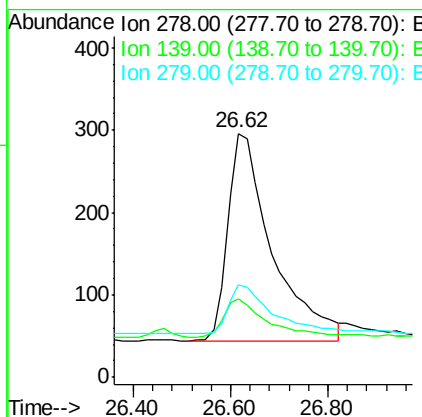
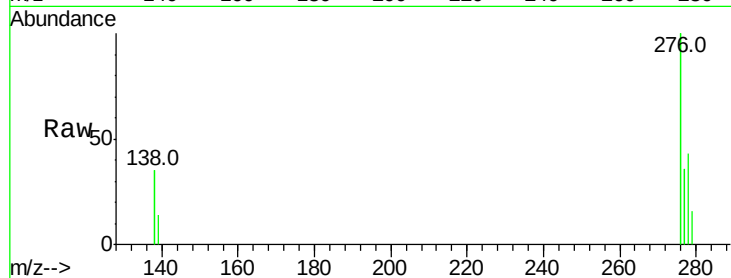
#35
Dibenzo(a,h)anthracene
Concen: 0.17 ng
RT: 26.62 min Scan# 1717
Delta R.T. 0.03 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT1-2017

Tot Ion	Ratio	Lower	Upper
278	100		
139	32.1	13.8	20.8#
279	38.2	21.4	32.2#

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#36
Benzo(g,h,i)perylene
Concen: 0.18 ng
RT: 27.35 min Scan# 1760
Delta R.T. 0.02 min
Lab File: BE092625.D
Acq: 27 Dec 2016 17:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	31.9	19.8	29.8#
138	32.9	19.8	29.6#

