

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM072318\
 Data File : BM016036.D
 Acq On : 23 Jul 2018 21:28
 Operator : SJ/JU
 Sample : J3762-03
 Misc : MDL 1 PPM
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Manual Integrations
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 7/24/2018 5:28:52 PM

Quant Time: Jul 24 15:32:42 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 23 16:08:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	41604	20.00	ng	0.00
21) Naphthalene-d8	11.05	136	153568	20.00	ng	0.00
38) Acenaphthene-d10	14.86	164	79444	20.00	ng	0.00
63) Phenanthrene-d10	17.59	188	171310	20.00	ng	0.00
75) Chrysene-d12	21.70	240	183109	20.00	ng	0.00
86) Perylene-d12	24.07	264	195976	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.74	112	318043	126.98	ng	0.00
7) Phenol-d6	7.39	99	387193	118.38	ng	0.00
23) Nitrobenzene-d5	9.42	82	295124	89.38	ng	0.00
41) 2,4,6-Tribromophenol	16.34	330	131568	130.57	ng	0.00
44) 2-Fluorobiphenyl	13.48	172	592553	90.75	ng	0.00
78) Terphenyl-d14	20.16	244	1104750	126.29	ng	0.00

Target Compounds

						Qvalue
6) Aniline	7.57	93	1449	0.385	ng	# 77
8) 2-Chlorophenol	7.78	128	2456	0.825	ng	# 1
9) Benzaldehyde	7.42	77	2404	1.046	ng	# 84
10) Phenol	7.40	94	2830	0.865	ng	# 1
11) bis(2-Chloroethyl)ether	7.66	93	1415	0.548	ng	# 78
12) 1,3-Dichlorobenzene	8.13	146	2512	0.721	ng	# 70
13) 1,4-Dichlorobenzene	8.27	146	2831	0.801	ng	# 84
14) 1,2-Dichlorobenzene	8.59	146	2754	0.796	ng	# 85
15) Benzyl Alcohol	8.55	79	7787m	2.990	ng	
16) 2,2'-oxybis(1-Chloropropan	8.77	45	3006	0.760	ng	# 75
18) Hexachloroethane	9.31	117	1126	0.737	ng	# 74
24) Nitrobenzene	9.47	77	3011	0.906	ng	# 73
31) Naphthalene	11.11	128	7862	1.012	ng	# 97
34) Hexachlorobutadiene	11.36	225	1455	0.752	ng	# 86
37) 2-Methylnaphthalene	12.71	142	4761	0.914	ng	# 73
39) 1,2,4,5-Tetrachlorobenzene	13.07	216	2258	0.835	ng	# 100
45) 1,1'-Biphenyl	13.70	154	7116	0.993	ng	# 97
46) 2-Chloronaphthalene	13.75	162	5010	0.898	ng	# 84
47) 2-Nitroaniline	14.01	65	117	0.063	ng	# 64
48) Acenaphthylene	14.59	152	6368	0.780	ng	# 96
49) Dimethylphthalate	14.31	163	5939	0.854	ng	# 97
50) 2,6-Dinitrotoluene	14.46	165	633	0.453	ng	# 54
51) Acenaphthene	14.92	154	4557	0.908	ng	# 89
54) Dibenzofuran	15.26	168	7142	0.863	ng	# 77
57) Fluorene	15.90	166	5491	0.893	ng	# 92
58) 2,3,4,6-Tetrachlorophenol	15.49	232	823	0.549	ng	# 100
59) Diethylphthalate	15.65	149	5970	0.797	ng	# 92
62) Azobenzene	16.17	77	5090	0.645	ng	# 83
65) n-Nitrosodiphenylamine	16.10	169	4308	0.764	ng	# 94
66) 4-Bromophenyl-phenylether	16.78	248	1426	0.735	ng	# 77
67) Hexachlorobenzene	16.89	284	1480	0.693	ng	# 37
68) Atrazine	17.04	200	1310	0.648	ng	# 78
70) Phenanthrene	17.63	178	9308	0.970	ng	# 95
71) Anthracene	17.73	178	7821	0.839	ng	# 94

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Instrument :
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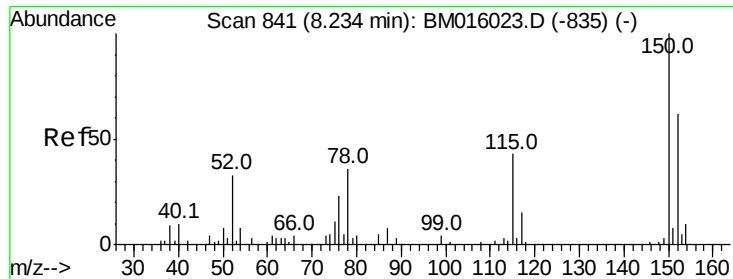
Manual Integrations
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Quant Time: Jul 24 15:32:42 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 23 16:08:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) Carbazole	18.00	167	6902	0.715	nq	# 91
73) Di-n-butylphthalate	18.51	149	8193	0.681	nq	# 96
74) Fluoranthene	19.62	202	9542	0.892	nq	94
77) Pyrene	19.98	202	9349	0.852	nq	95
79) Butylbenzylphthalate	20.83	149	4473	0.802	nq	94
80) Benzo(a)anthracene	21.69	228	11633	1.031	nq	96
82) Chrysene	21.74	228	10209	0.944	nq	98
83) Bis(2-ethylhexyl)phthalate	21.57	149	5776	0.715	nq	# 88
84) Di-n-octyl phthalate	22.48	149	10704	0.788	nq	# 80
85) Indeno(1,2,3-cd)pyrene	26.51	276	12714	0.990	nq	# 90
87) Benzo(b)fluoranthene	23.36	252	11513	0.998	nq	95
88) Benzo(k)fluoranthene	23.40	252	11282m	0.965	nq	
89) Benzo(a)pyrene	23.98	252	11603	1.046	nq	96
90) Dibenzo(a,h)anthracene	26.52	278	10616	0.924	nq	# 95
91) Benzo(a,h,i)perylene	27.27	276	10811	0.995	nq	# 92

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



#1

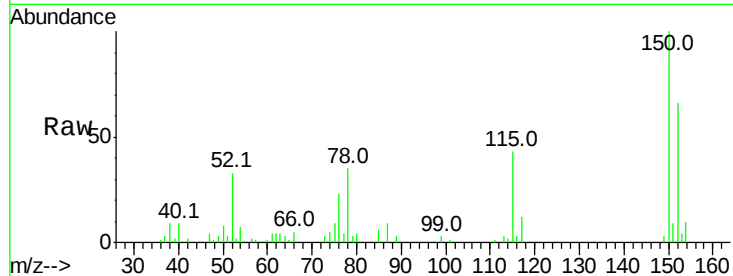
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.23 min Scan# 841
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

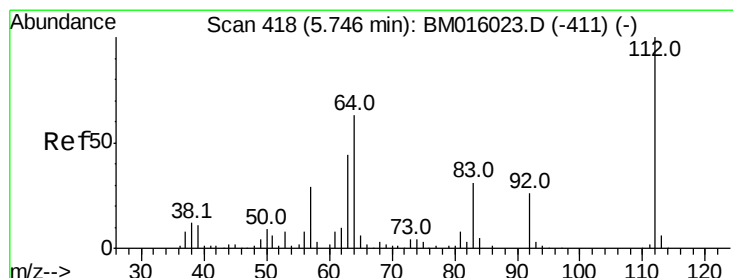
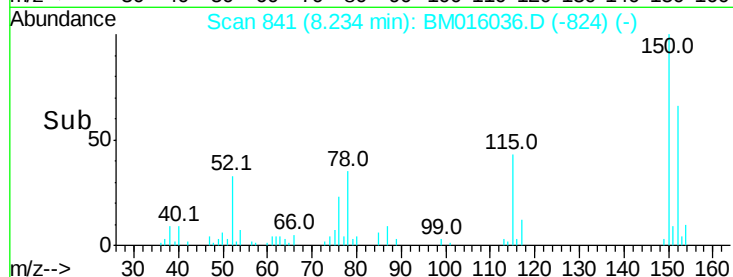
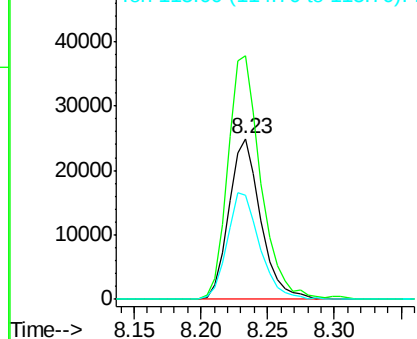
Tot Ion	Ratio	Lower	Upper
152	100		
150	151.6	119.5	179.3
115	64.9	43.0	64.4#

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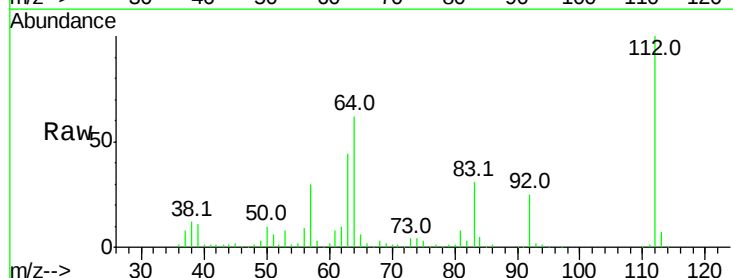
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



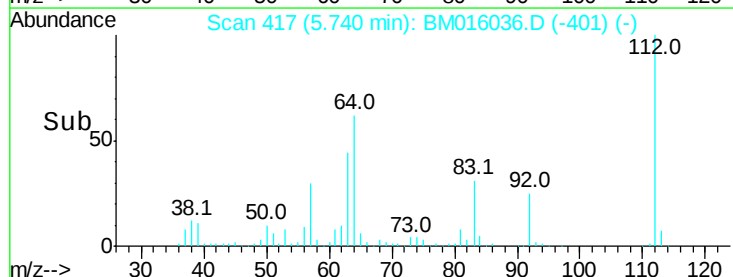
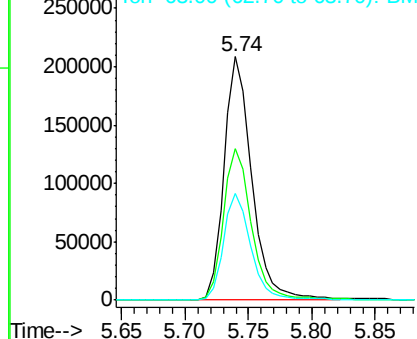
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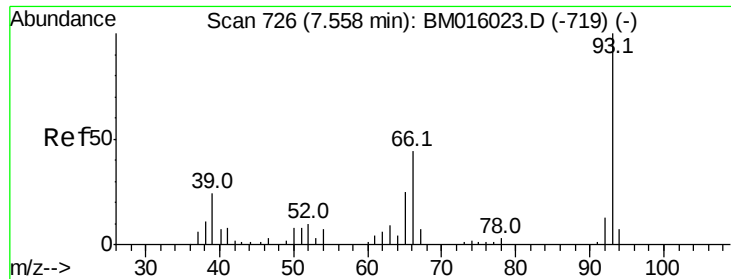
2-Fluorophenol
Concen: N.D. ng
RT: 5.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.4	38.6	57.8#
63	43.7	19.3	28.9#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#6

Aniline

Concen: 0.385 ng

RT: 7.57 min Scan# 729

Delta R.T. 0.02 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampleId :

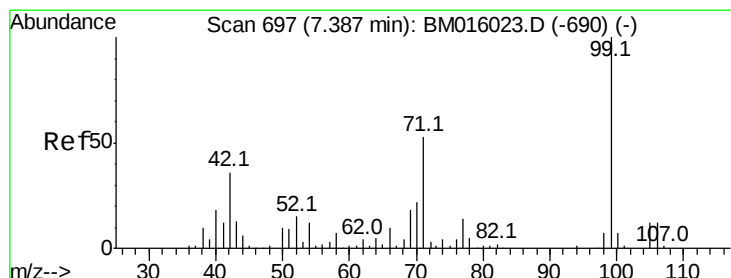
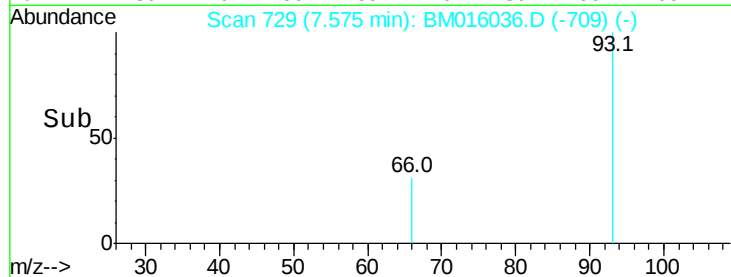
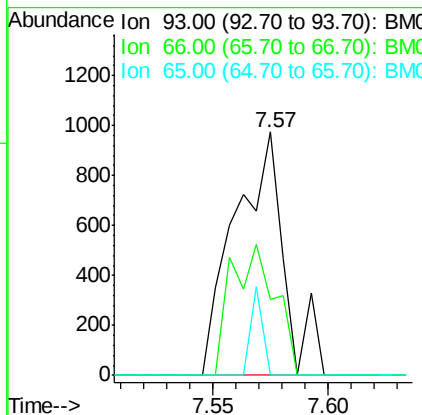
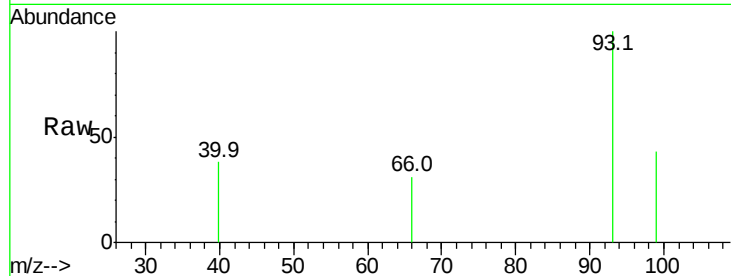
MDL-SOIL-03-QT3-2018

Tot Ion:	93	Resp:	1449
Ion Ratio	Lower	Upper	
93	100		
66	31.2	30.8	46.2
65	0.0	16.0	24.0#

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#7

Phenol-d6

Concen: 0.385 ng

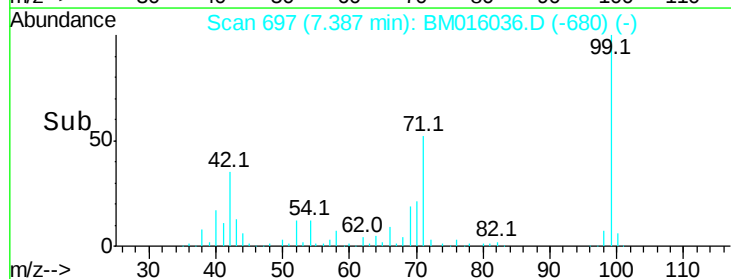
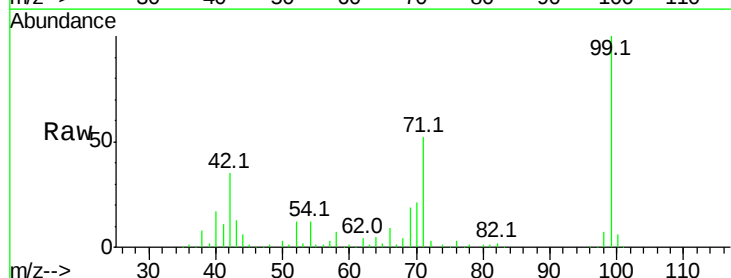
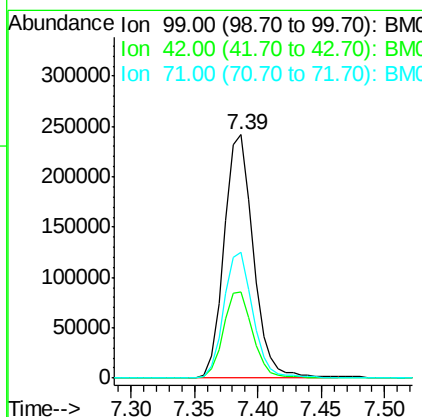
RT: 7.39 min Scan# 697

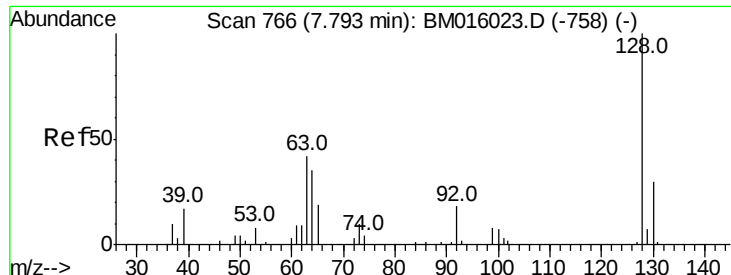
Delta R.T. -0.00 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion:	99	Resp:	387193
Ion Ratio	Lower	Upper	
99	100		
42	35.2	11.0	16.4#
71	51.7	23.4	35.2#





#8

2-Chlorophenol

Concen: 0.825 ng

RT: 7.78 min Scan# 764

Delta R.T. -0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampleId :

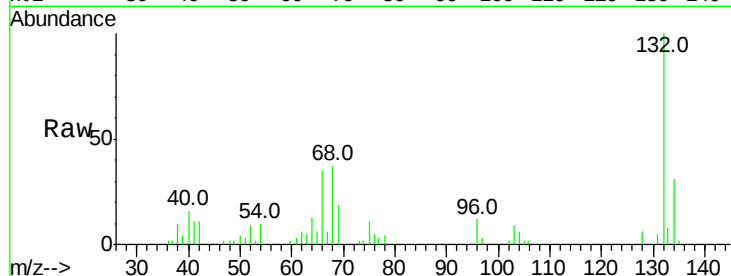
MDL-SOIL-03-QT3-2018

Tot Ion:	128	Resp:	2456
Ion Ratio	Lower	Upper	
128	100		
130	0.0	12.0	52.0#
64	224.6	24.9	64.9#

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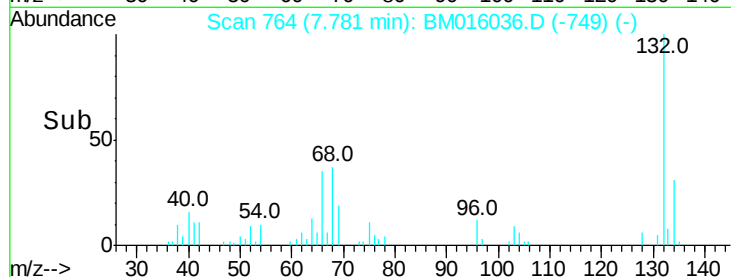


Abundance Ion 128.00 (127.70 to 128.70): E

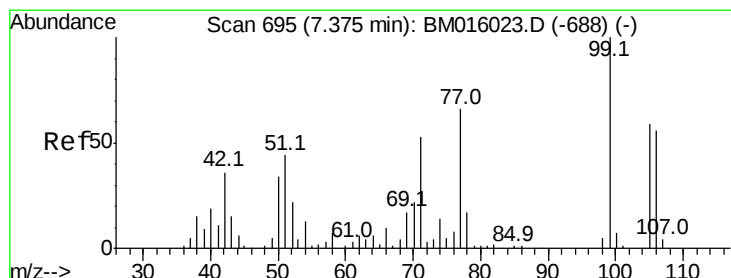
Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): E

Time-->



Time-->



#9

Benzaldehyde

Concen: 1.046 ng

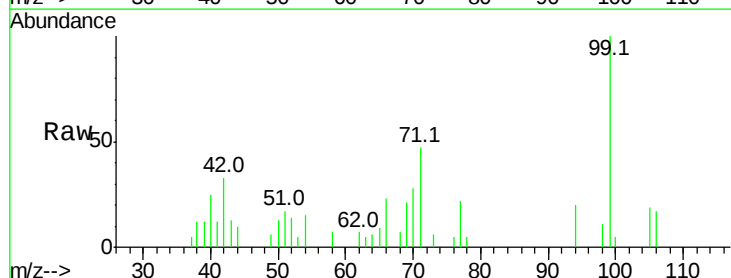
RT: 7.42 min Scan# 703

Delta R.T. 0.05 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion:	77	Resp:	2404
Ion Ratio	Lower	Upper	
77	100		
105	83.8	78.8	118.8
106	77.3	73.7	113.7

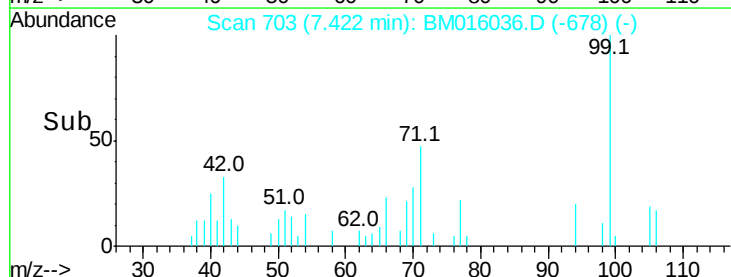


Abundance Ion 77.00 (76.70 to 77.70): E

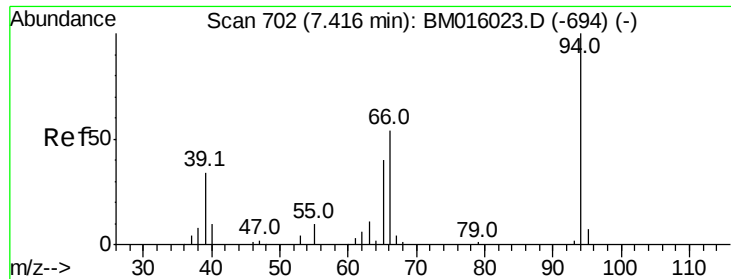
Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

Time-->



Time-->



#10

Phenol

Concen: 0.865 ng

RT: 7.40 min Scan# 700

Delta R.T. -0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampleId :

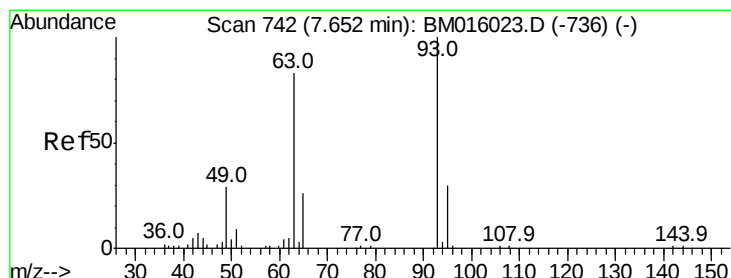
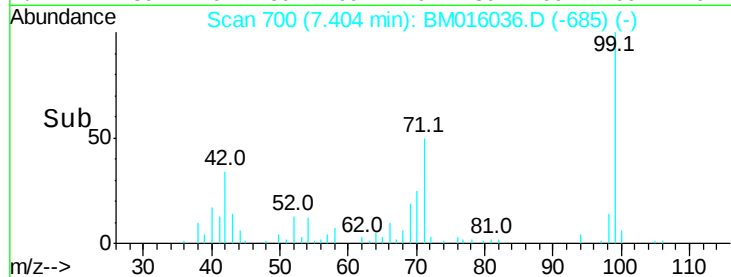
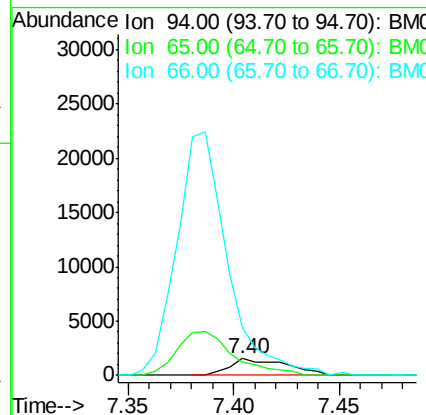
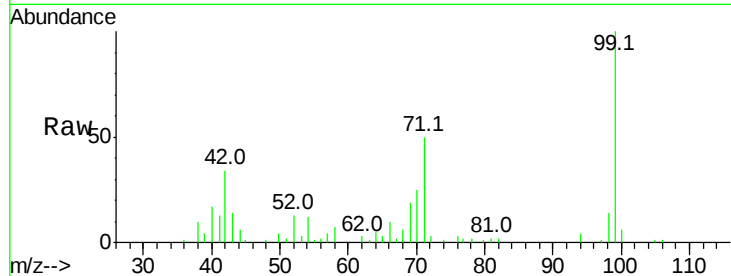
MDL-SOIL-03-QT3-2018

Tot Ion:	94	Resp:	2830
Ion Ratio	Lower	Upper	
94	100		
65	80.9	18.8	58.8#
66	283.7	39.9	79.9#

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#11

bis(2-Chloroethyl)ether

Concen: 0.548 ng

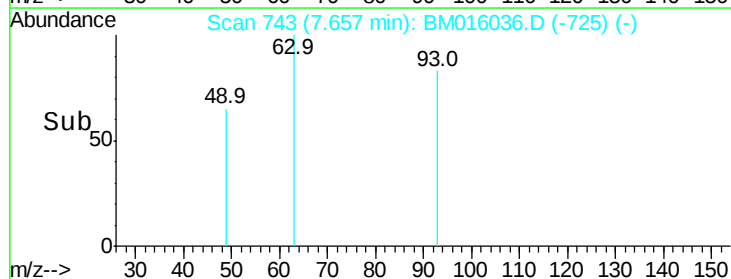
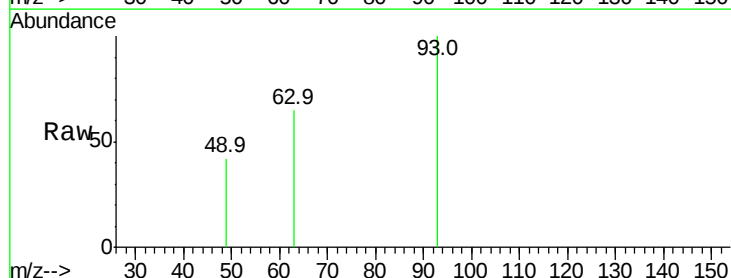
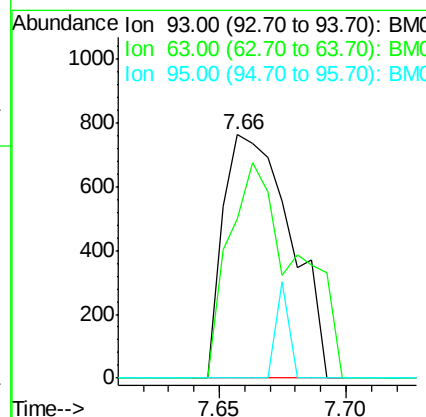
RT: 7.66 min Scan# 743

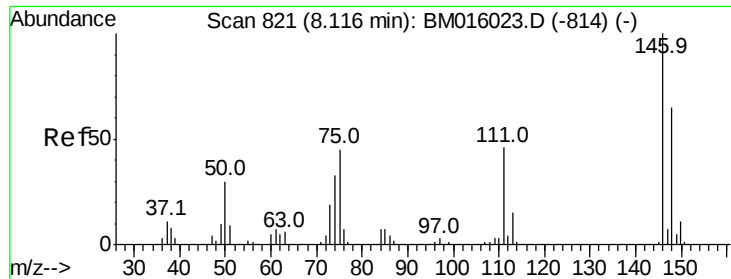
Delta R.T. 0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion:	93	Resp:	1415
Ion Ratio	Lower	Upper	
93	100		
63	65.4	49.5	89.5
95	0.0	13.5	53.5#





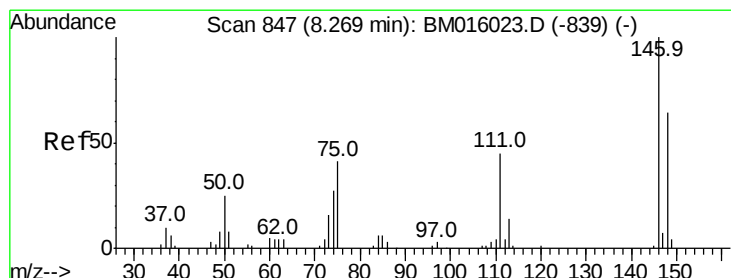
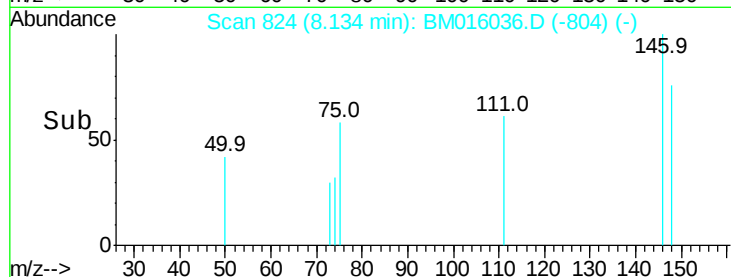
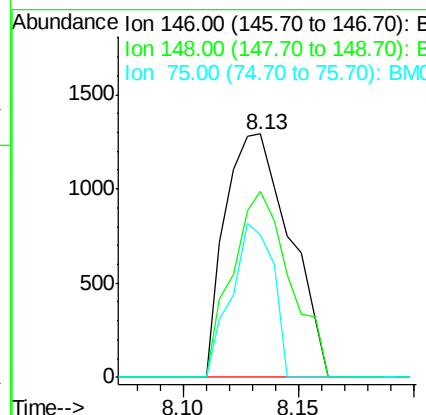
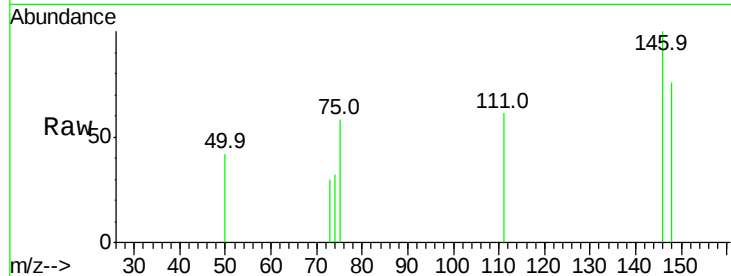
#12
 1,3-Dichlorobenzene
 Concen: 0.721 ng
 RT: 8.13 min Scan# 824
 Delta R.T. 0.02 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
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 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
148	76.2	50.9	76.3
75	58.4	21.4	32.2

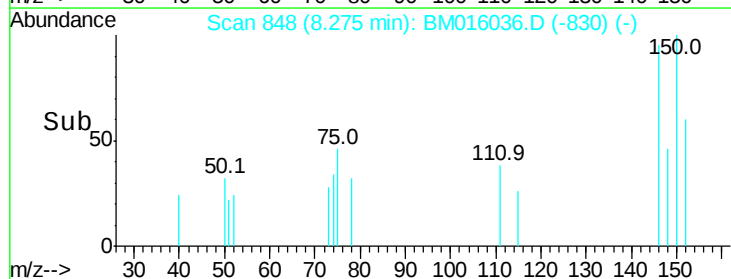
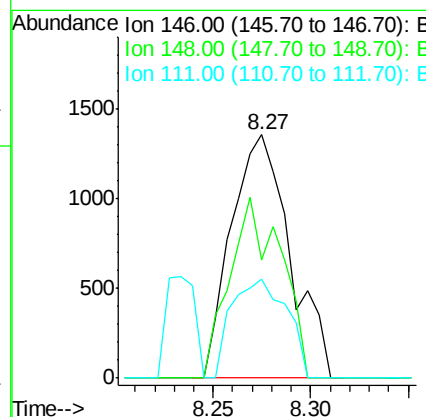
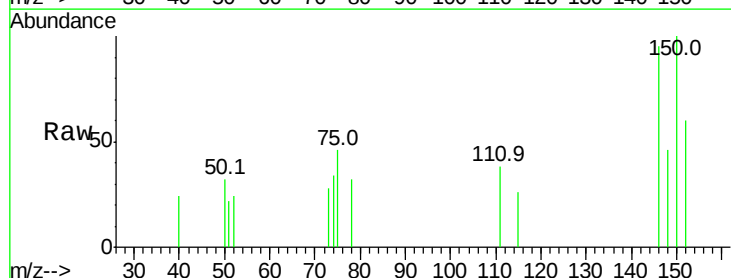
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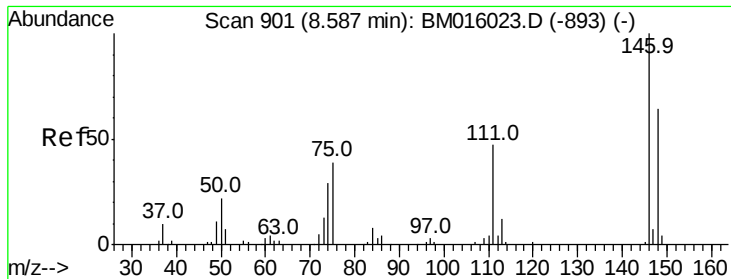
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#13
 1,4-Dichlorobenzene
 Concen: 0.801 ng
 RT: 8.27 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
146	100		
148	48.6	51.9	77.9
111	40.4	29.2	43.8





#14

1,2-Dichlorobenzene

Concen: 0.796 ng

RT: 8.59 min Scan# 901

Delta R.T. -0.00 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampleId :

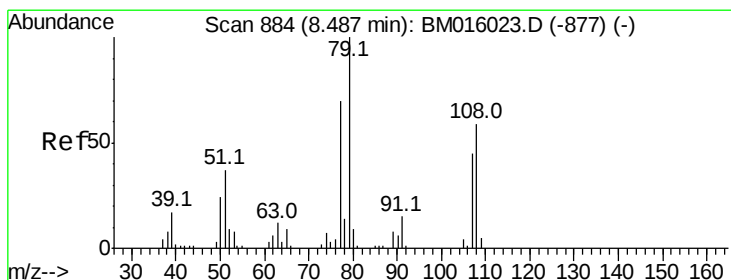
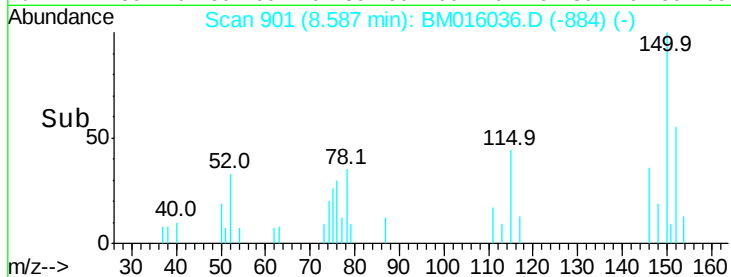
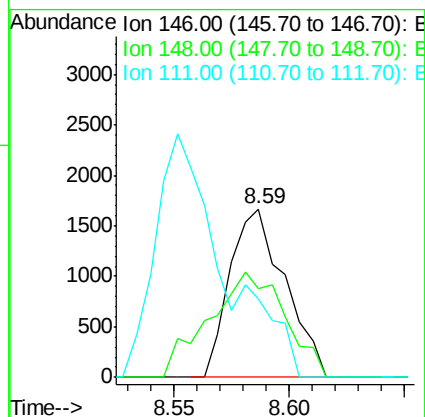
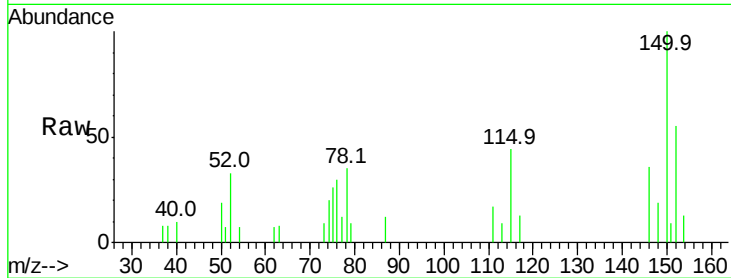
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
148	52.4	52.3	78.5
111	46.5	30.6	45.8

Manual Integrations
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#15

Benzyl Alcohol

Concen: 2.990 ng m

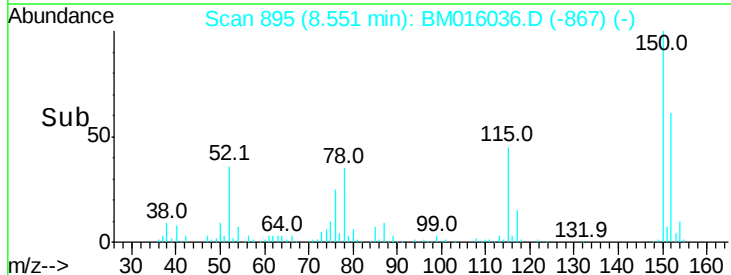
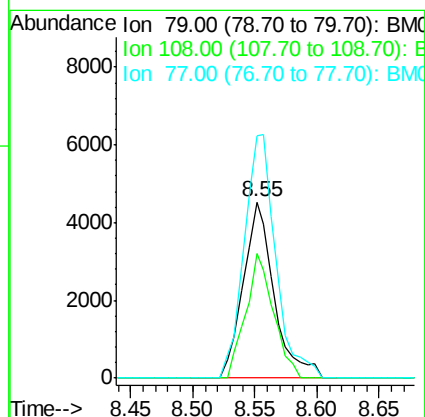
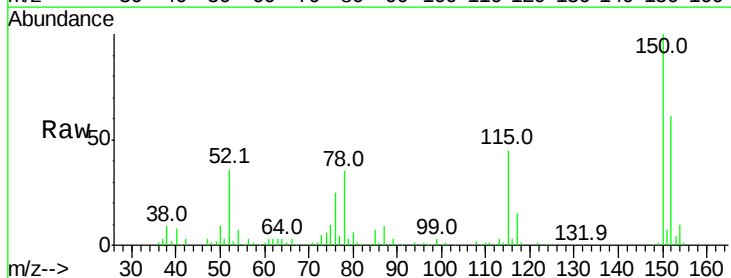
RT: 8.55 min Scan# 895

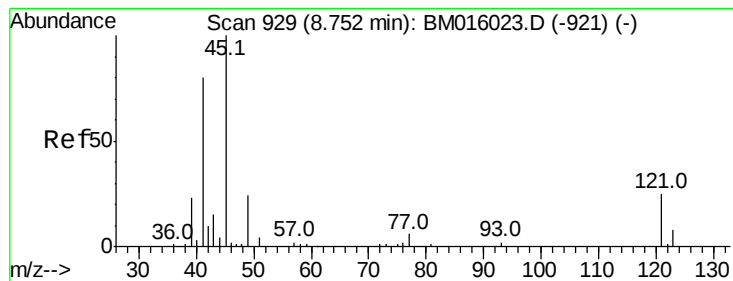
Delta R.T. 0.06 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
79	100		
108	70.7	65.0	97.4
77	137.2	53.0	79.6





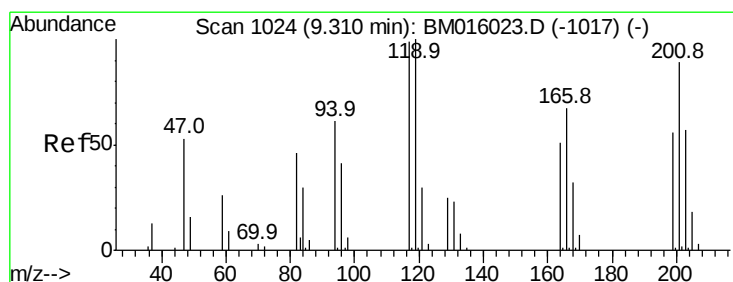
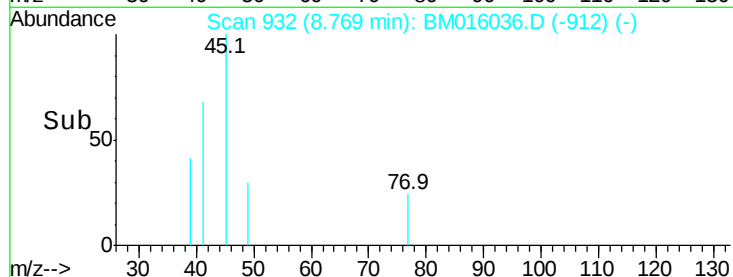
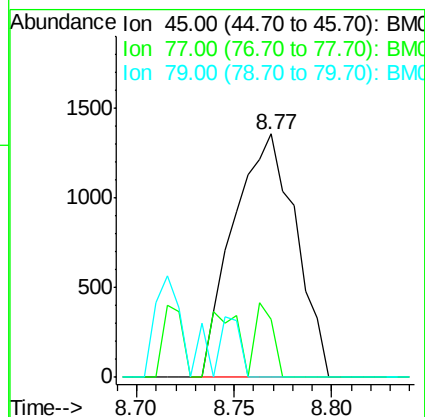
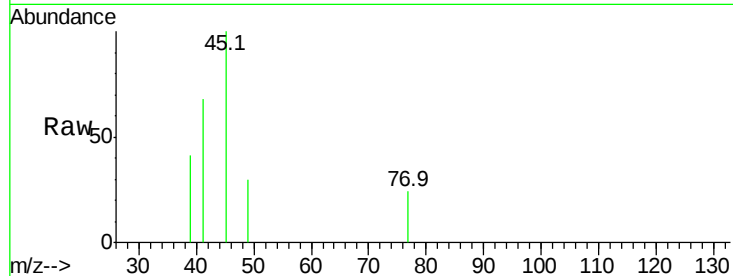
#16
2,2'-oxvbis(1-Chloropropane)
Concen: 0.760 ng
RT: 8.77 min Scan# 932
Delta R.T. 0.02 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
45	100		
77	23.7	0.0	35.2
79	0.0	0.0	32.0

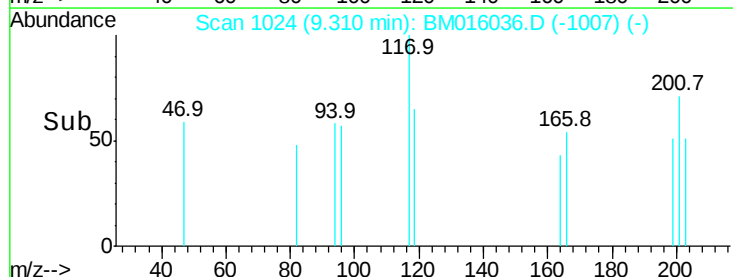
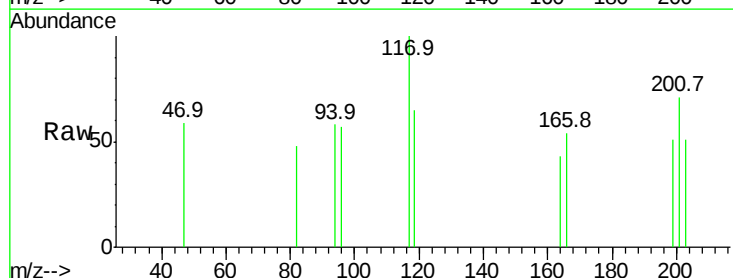
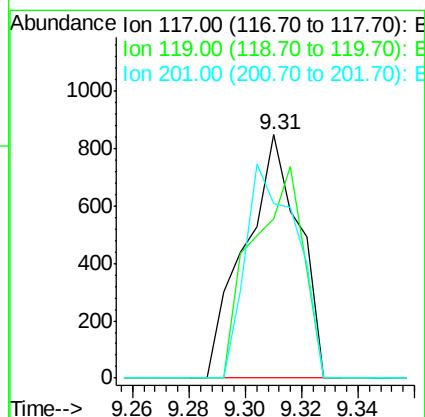
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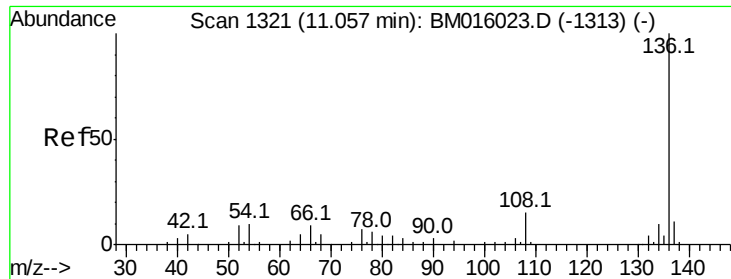
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#18
Hexachloroethane
Concen: 0.737 ng
RT: 9.31 min Scan# 1024
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	65.4	79.2	118.8#
201	71.5	69.8	104.6





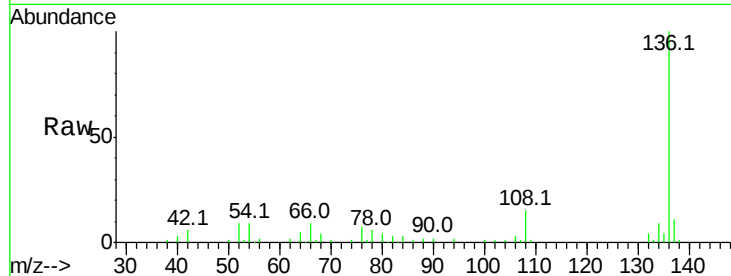
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 11.05 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

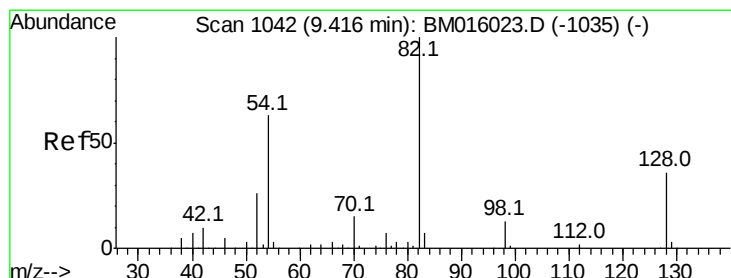
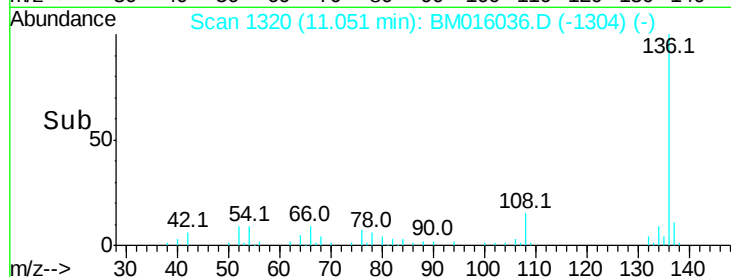
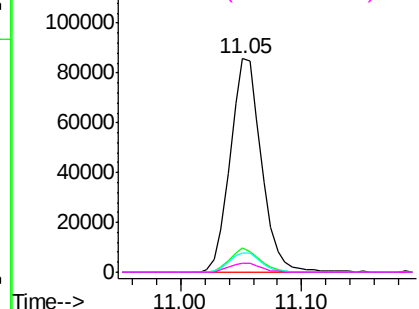
Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.5	8.7	13.1	
54	9.2	4.6	6.8#	
68	4.0	3.7	5.5	

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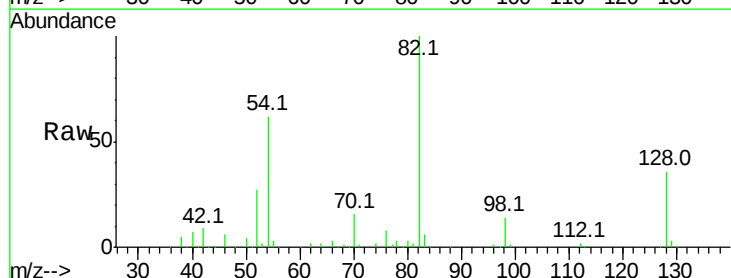


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BM
Ion 68.00 (67.70 to 68.70): BM

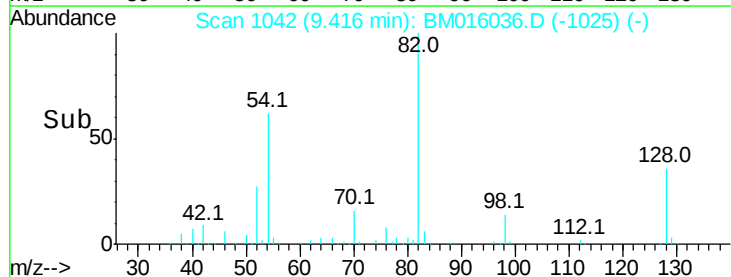
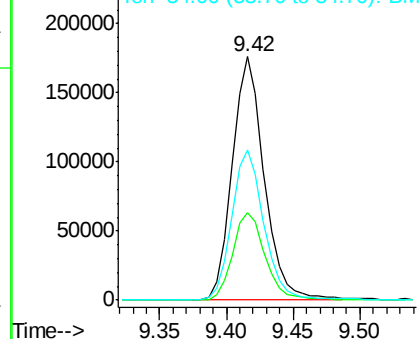


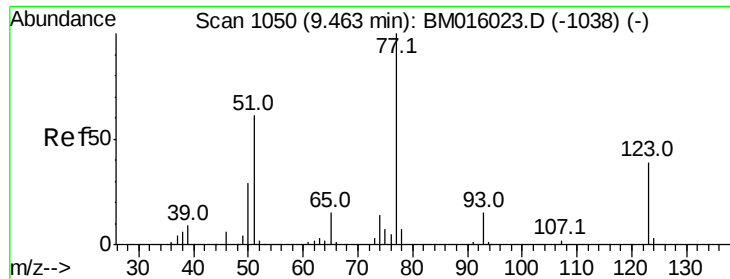
#23
Nitrobenzene-d5
Concen: N.D. ng
RT: 9.42 min Scan# 1042
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	35.8	32.8	49.2	
54	61.6	40.6	60.8#	



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





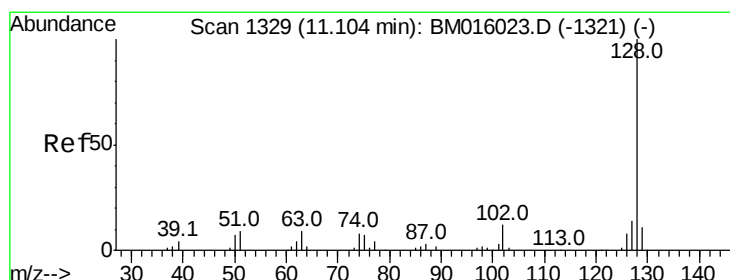
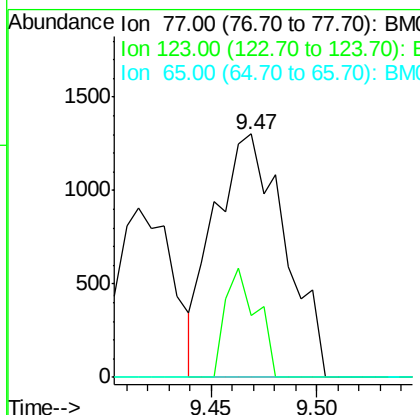
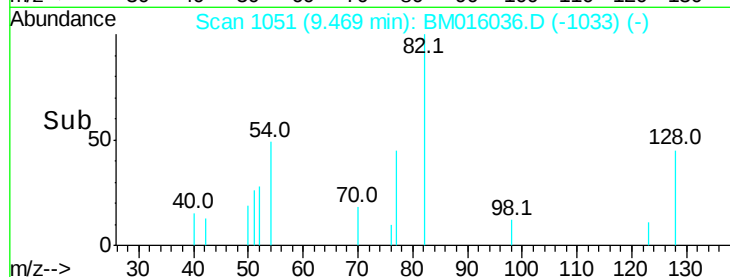
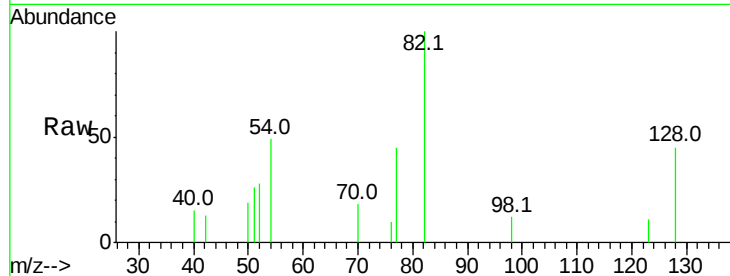
#24
Nitrobenzene
Concen: 0.906 ng
RT: 9.47 min Scan# 1051
Delta R.T. 0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
77	100		
123	25.5	32.6	49.0#
65	0.0	10.9	16.3#

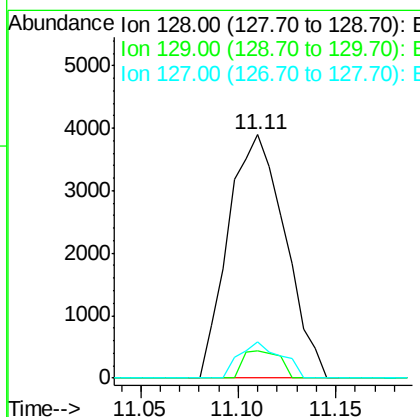
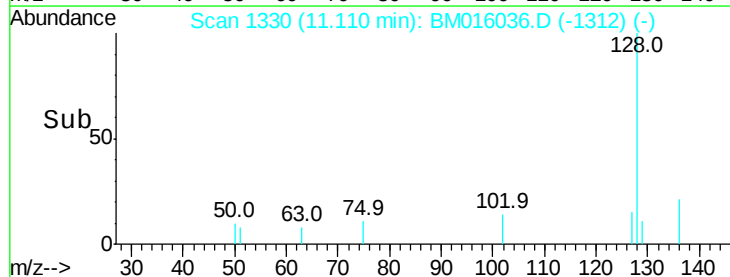
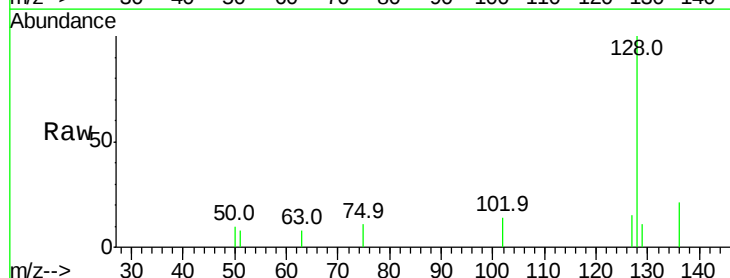
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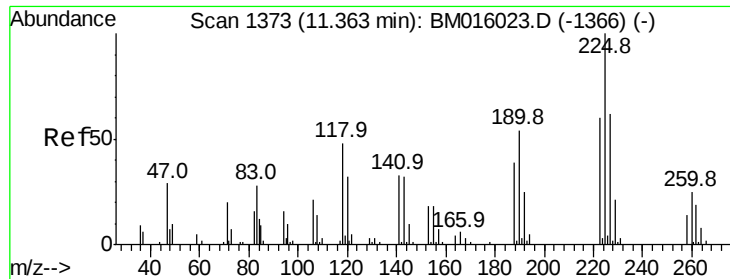
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#31
Naphthalene
Concen: 1.012 ng
RT: 11.11 min Scan# 1330
Delta R.T. 0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	15.1	10.4	15.6





#34

Hexachlorobutadiene

Concen: 0.752 ng

RT: 11.36 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampled :

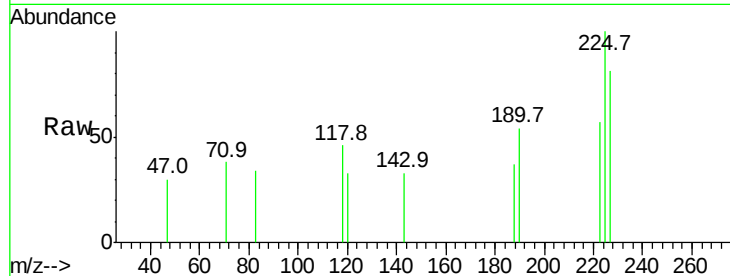
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
225	100		
223	57.3	47.9	71.9
227	81.1	50.1	75.1#

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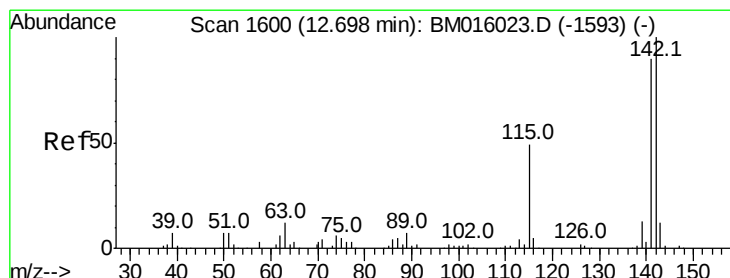
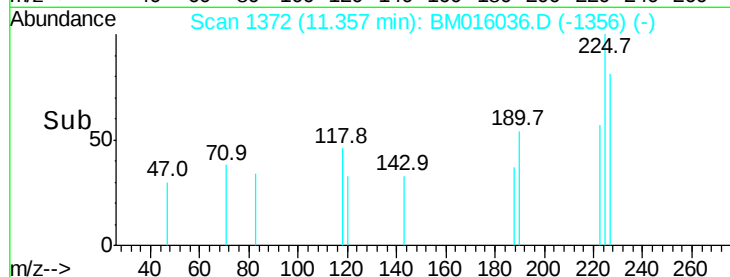
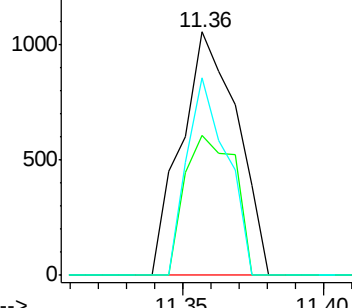
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Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#37

2-Methylnaphthalene

Concen: 0.914 ng

RT: 12.71 min Scan# 1602

Delta R.T. 0.01 min

Lab File: BM016036.D

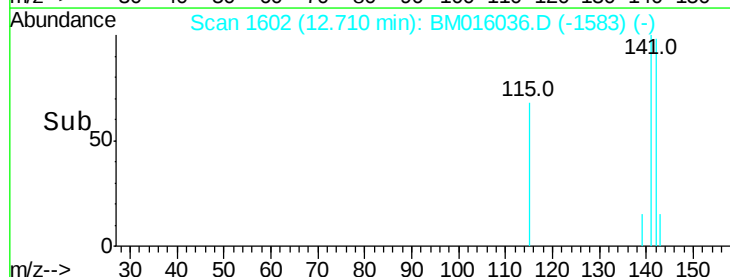
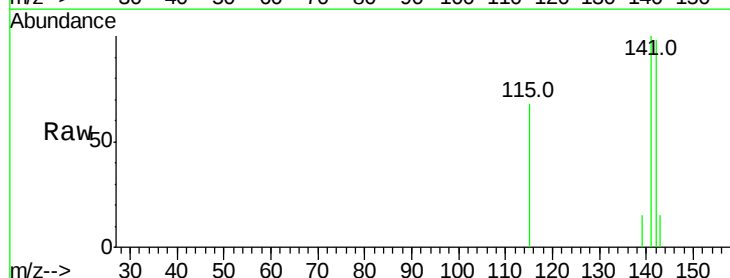
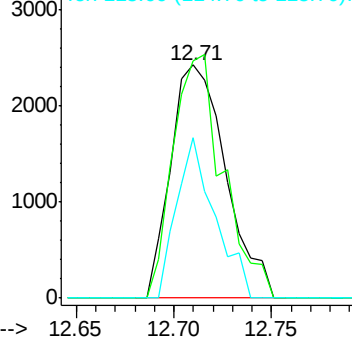
Acq: 23 Jul 2018 21:28

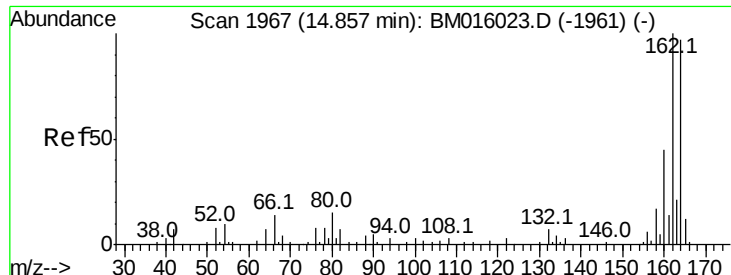
Tgt Ion	Ratio	Lower	Upper
142	100		
141	101.9	71.9	107.9
115	68.9	25.4	38.0#

Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.86 min Scan# 1967

Delta R.T. -0.00 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:164 Resp: 79444

Ion Ratio Lower Upper

164 100

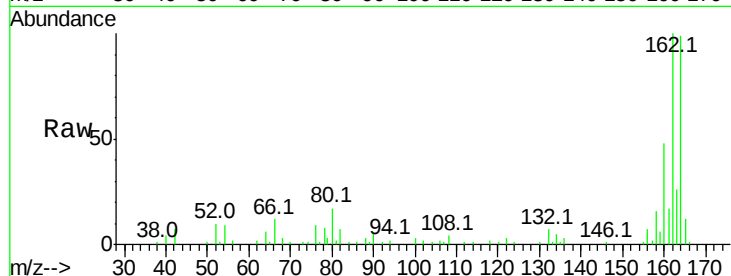
162 101.1 82.4 123.6

160 48.3 35.8 53.6

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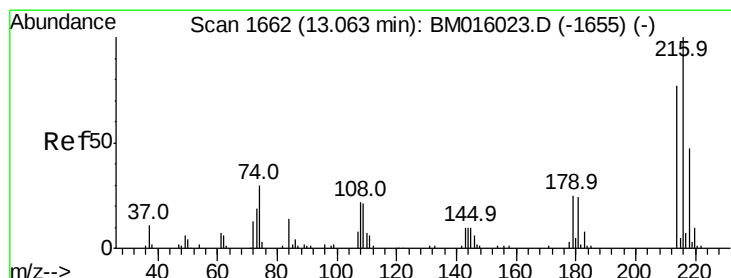
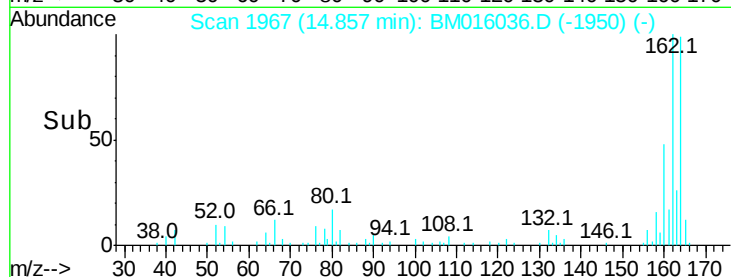
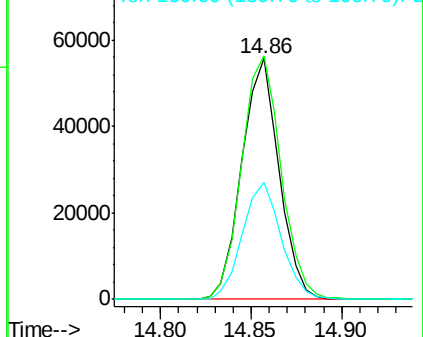
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Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#39

1,2,4,5-Tetrachlorobenzene

Concen: 0.835 ng

RT: 13.07 min Scan# 1663

Delta R.T. 0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion:216 Resp: 2258

Ion Ratio Lower Upper

216 100

214 82.3 0.0 0.0#

179 12.5 0.0 0.0#

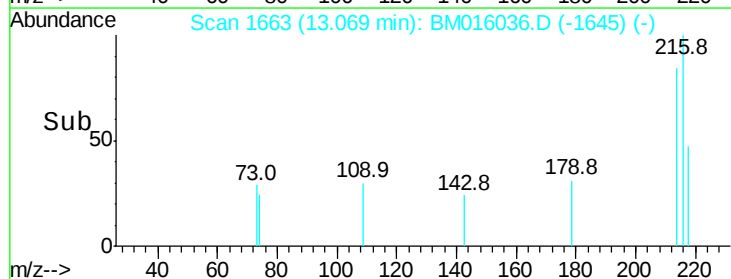
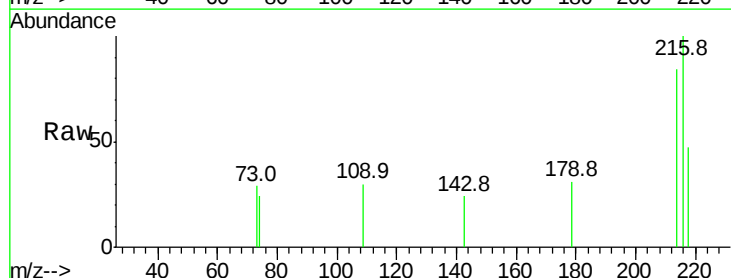
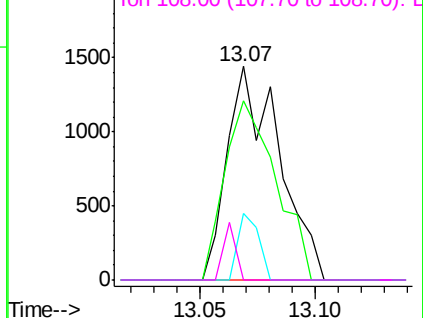
108 6.1 0.0 0.0#

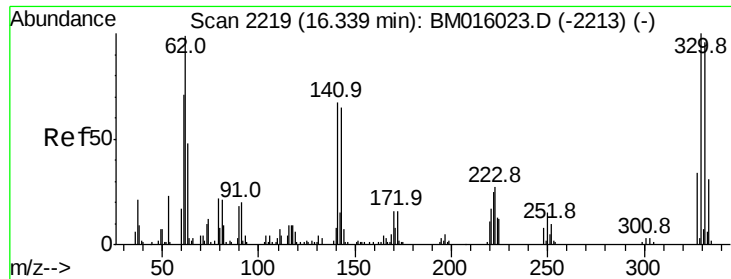
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





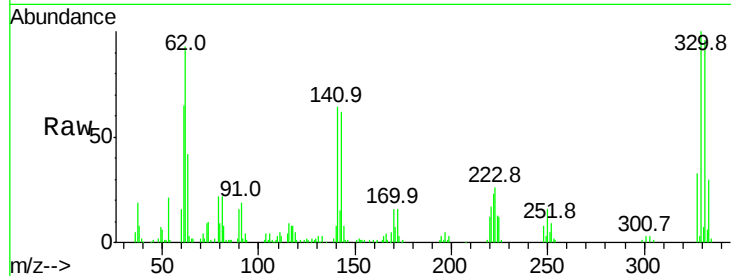
#41
 2,4,6-Tribromophenol
 Concen: N.D. ng
 RT: 16.34 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

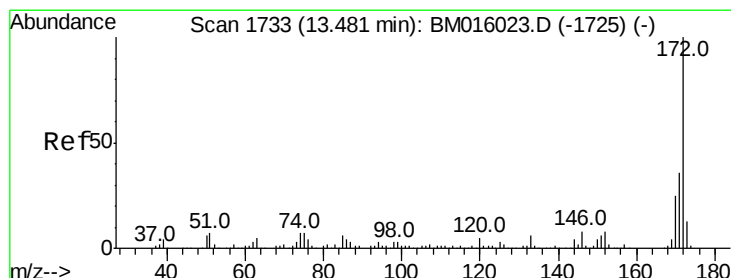
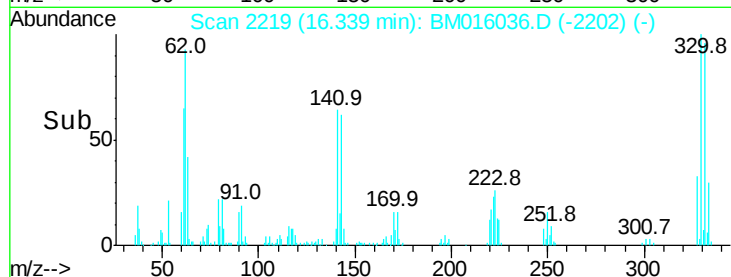
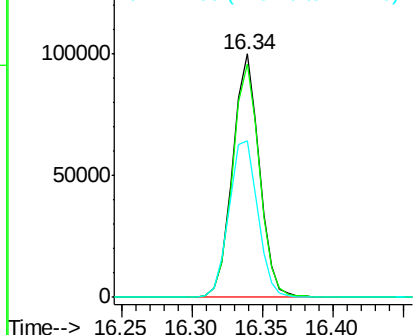
Tot Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	96.5	0.0	0.0#
141	69.2	0.0	0.0#

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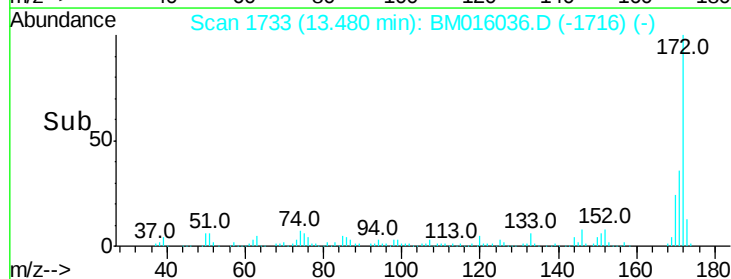
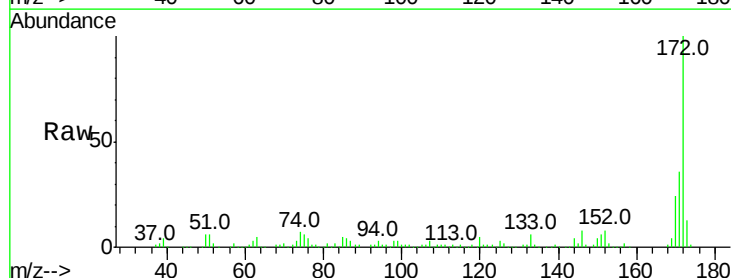
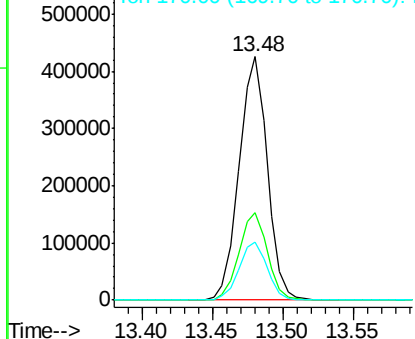
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

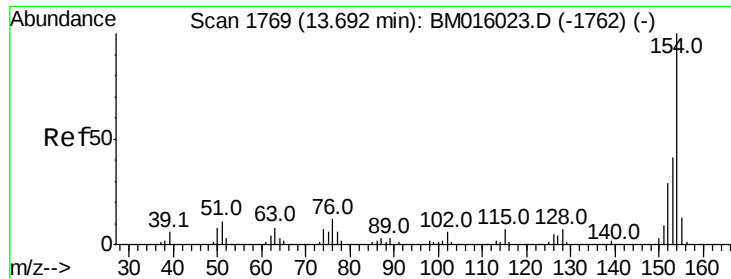


#44
 2-Fluorobiphenyl
 Concen: N.D. ng
 RT: 13.48 min Scan# 1733
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.9	28.5	42.7
170	23.8	18.8	28.2

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





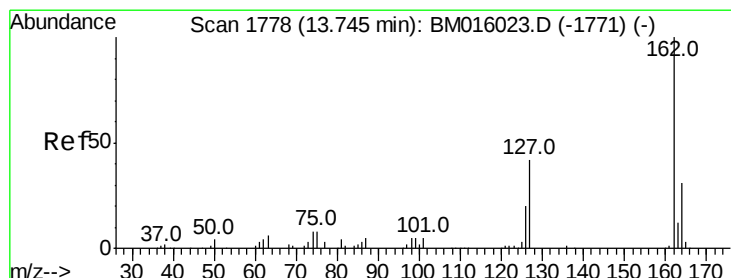
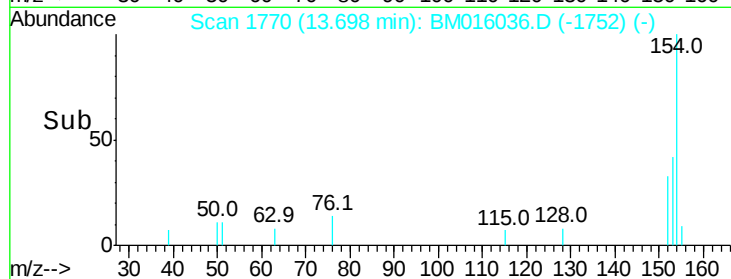
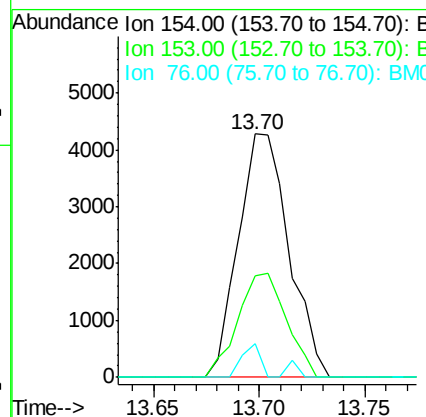
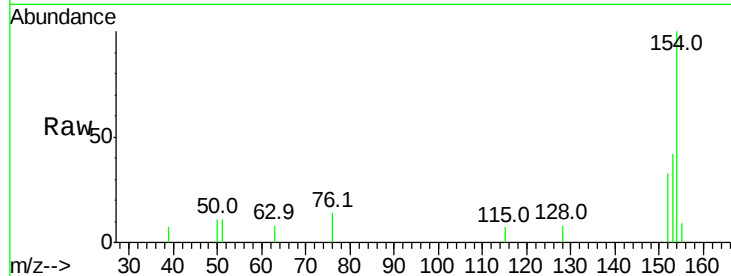
#45
 1,1'-Biphenyl
 Concen: 0.993 ng
 RT: 13.70 min Scan# 1770
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
154	100		
153	41.9	20.7	60.7
76	13.8	0.0	30.9

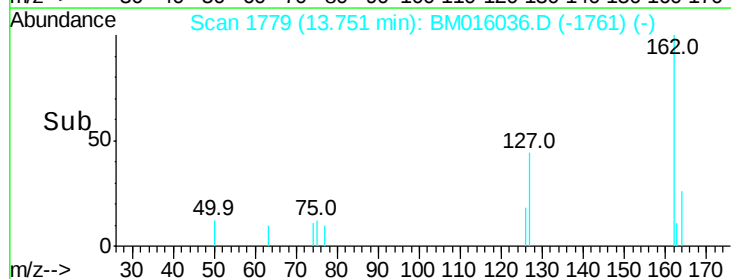
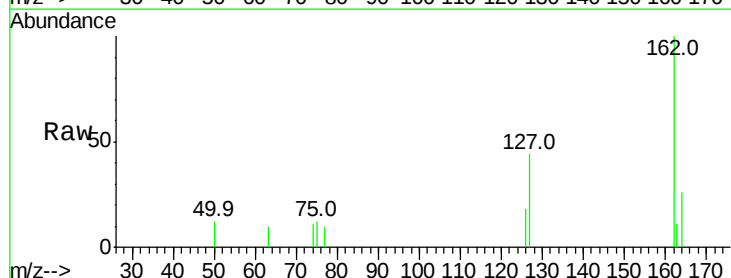
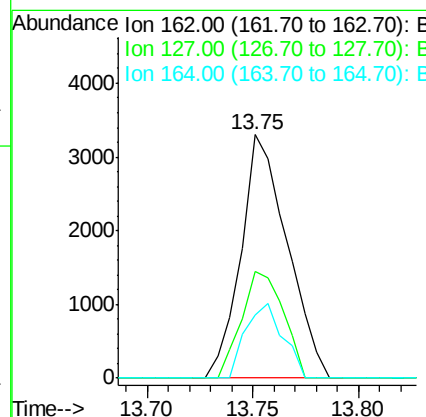
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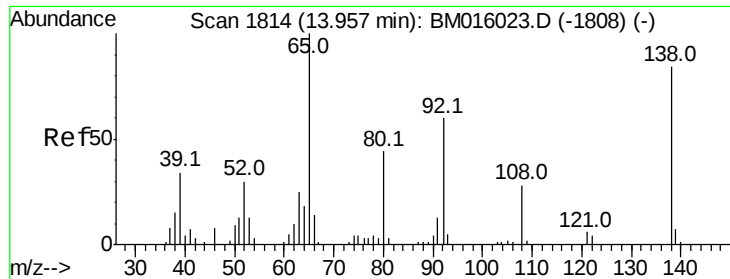
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#46
 2-Chloronaphthalene
 Concen: 0.898 ng
 RT: 13.75 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
162	100		
127	44.1	26.9	40.3#
164	25.7	26.8	40.2#





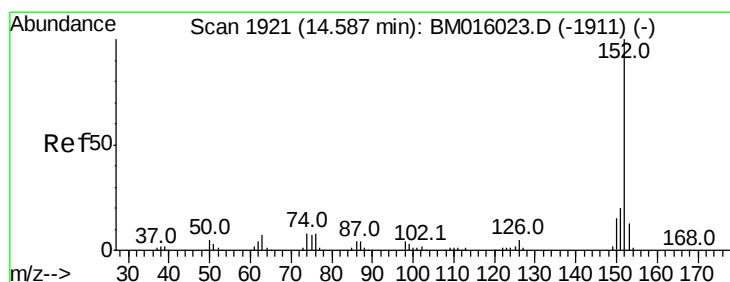
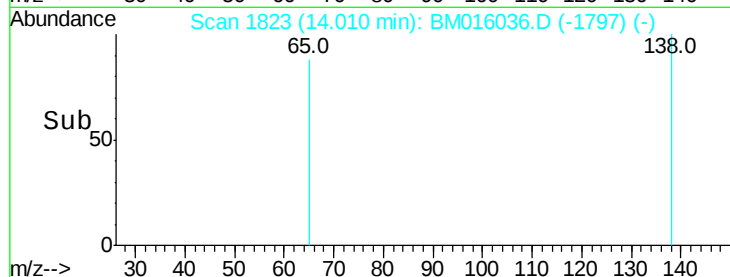
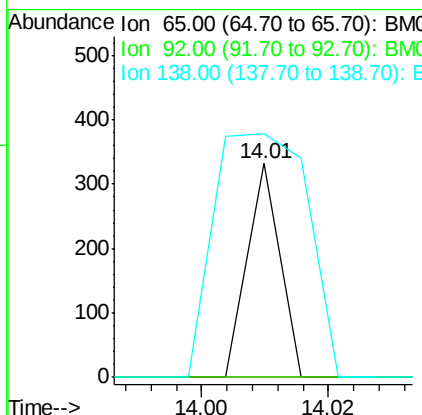
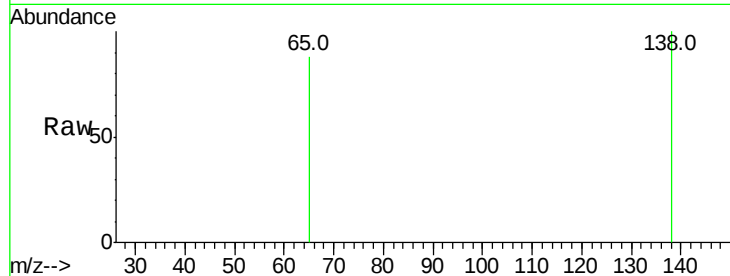
#47
 2-Nitroaniline
 Concen: 0.063 ng
 RT: 14.01 min Scan# 1823
 Delta R.T. 0.05 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
65	100		
92	0.0	59.1	88.7#
138	113.9	93.9	140.9

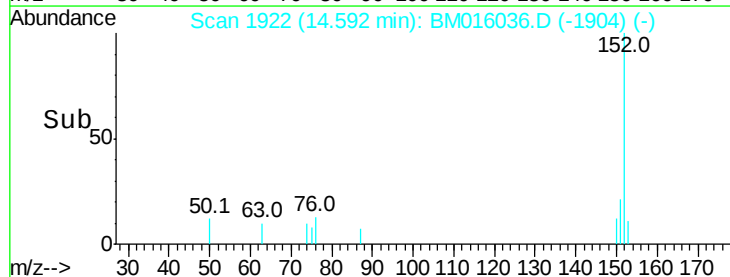
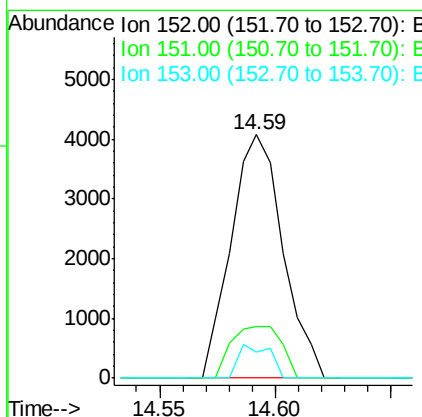
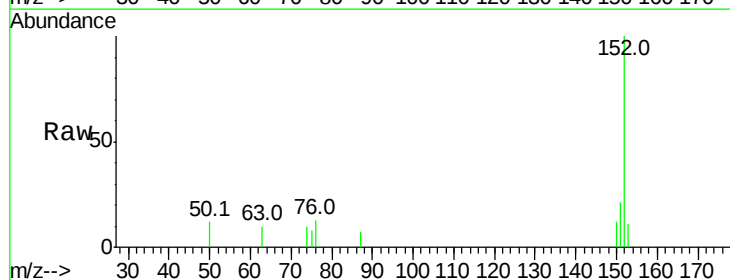
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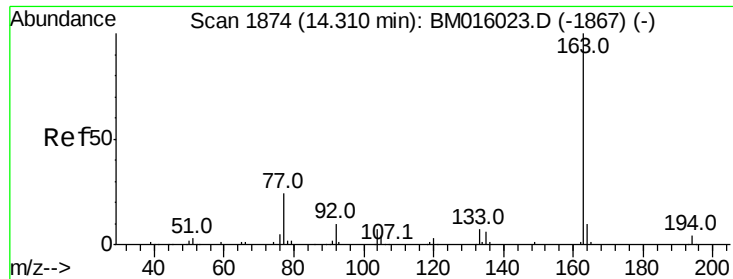
Sohil
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#48
 Acenaphthylene
 Concen: 0.780 ng
 RT: 14.59 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.1	15.9	23.9
153	10.7	10.6	16.0





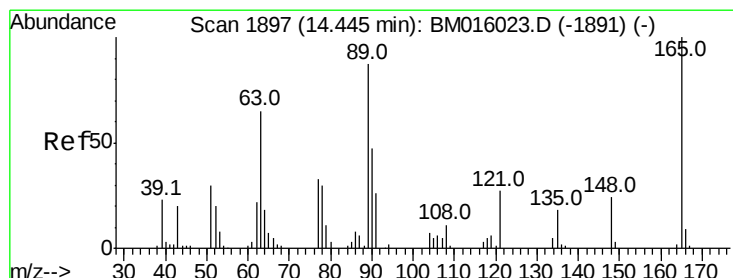
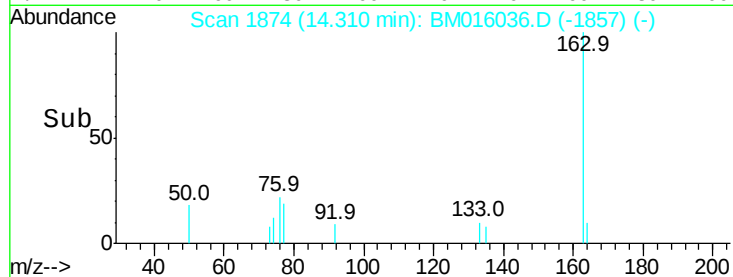
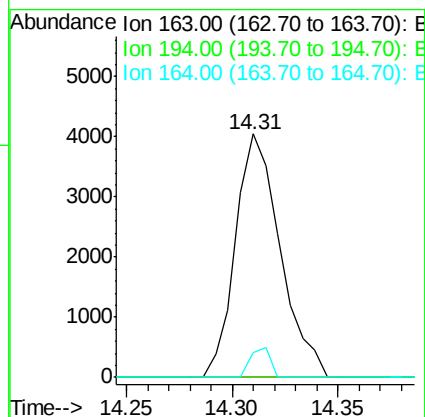
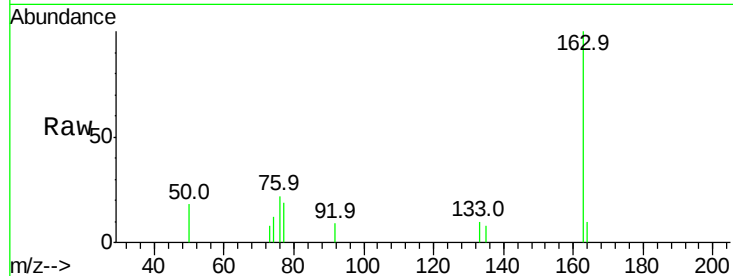
#49
Dimethylphthalate
Concen: 0.854 ng
RT: 14.31 min Scan# 1874
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion:163 Resp: 5939
Ion Ratio Lower Upper
163 100
194 0.0 2.7 4.1#
164 10.3 8.2 12.2

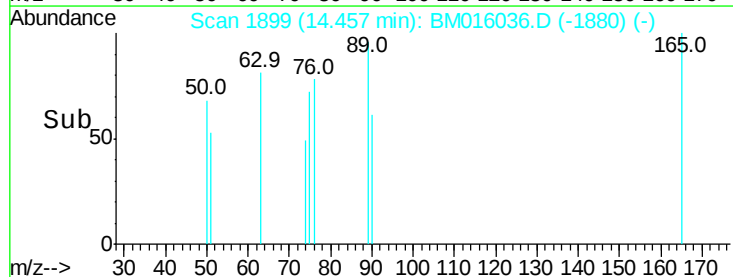
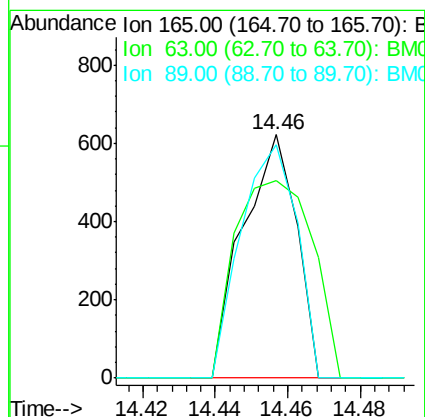
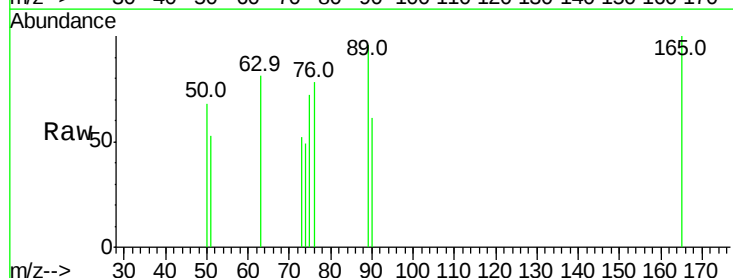
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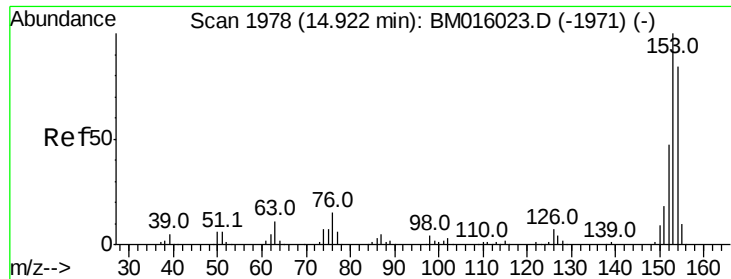
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#50
2,6-Dinitrotoluene
Concen: 0.453 ng
RT: 14.46 min Scan# 1899
Delta R.T. 0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion:165 Resp: 633
Ion Ratio Lower Upper
165 100
63 80.9 44.1 66.1#
89 95.7 44.3 66.5#





#51

Acenaphthene

Concen: 0.908 ng

RT: 14.92 min Scan# 1978

Delta R.T. -0.00 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:154 Resp: 4557

Ion Ratio Lower Upper

154 100

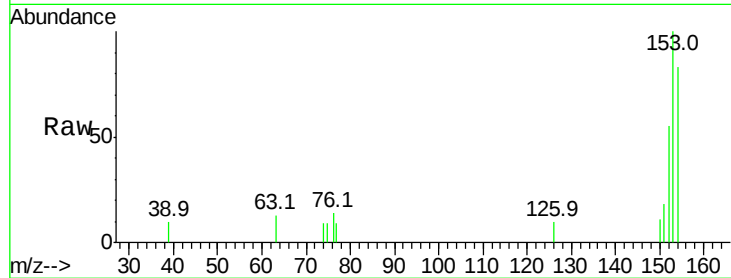
153 121.1 90.0 135.0

152 66.4 42.6 63.8#

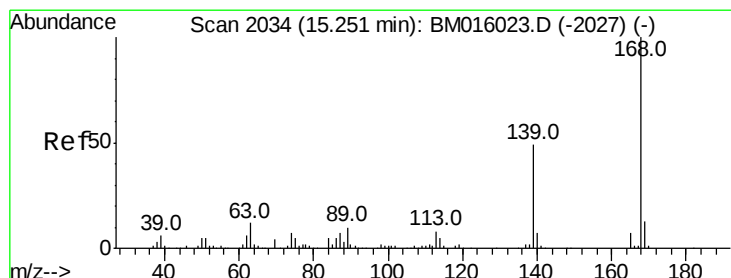
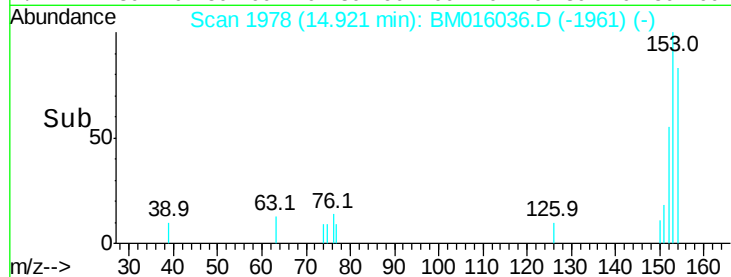
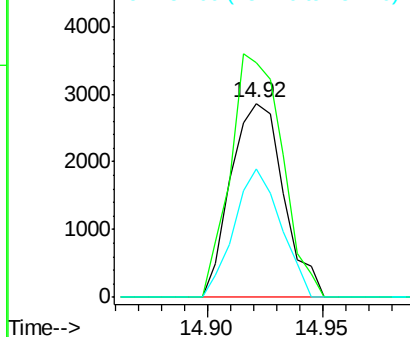
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 0.863 ng

RT: 15.26 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

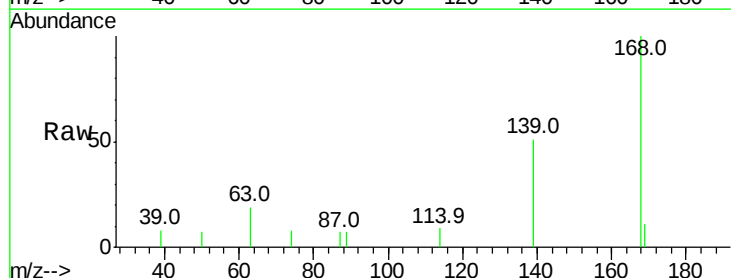
Tgt Ion:168 Resp: 7142

Ion Ratio Lower Upper

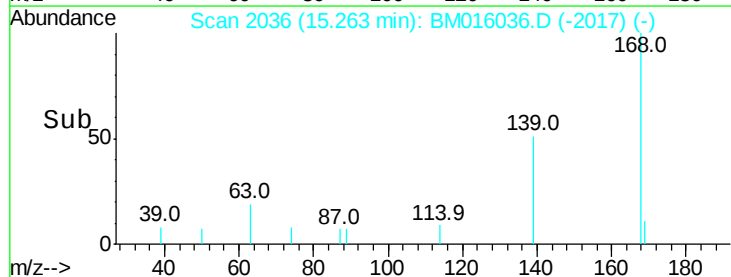
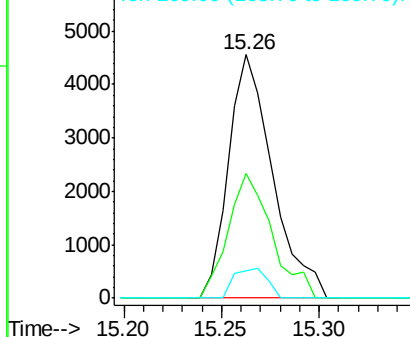
168 100

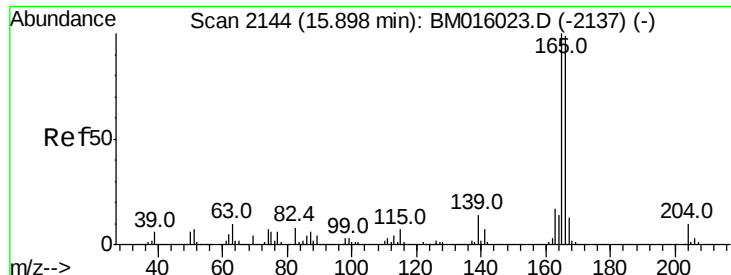
139 50.9 27.3 40.9#

169 11.1 10.6 16.0



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





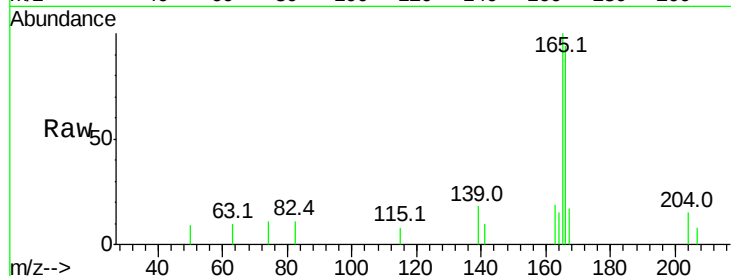
#57
 Fluorene
 Concen: 0.893 ng
 RT: 15.90 min Scan# 2145
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
166	100		
165	106.5	79.0	118.4
167	17.6	10.3	15.5#

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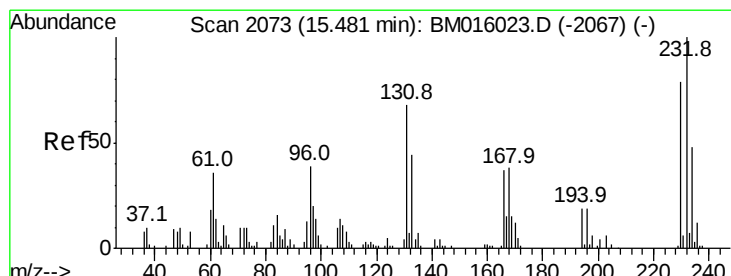
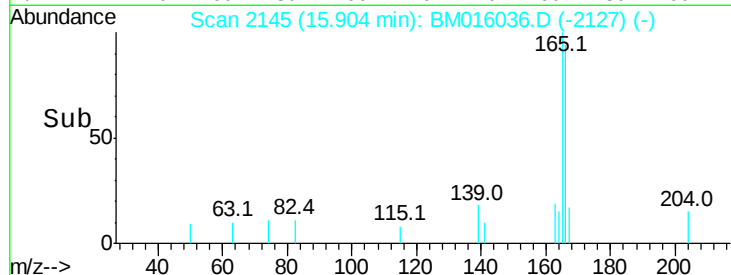
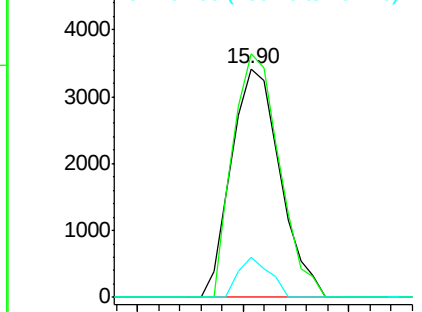


Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#58
 2,3,4,6-Tetrachlorophenol
 Concen: 0.549 ng
 RT: 15.49 min Scan# 2075
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
232	100		
131	47.1	0.0	0.0#
130	0.0	0.0	0.0
166	0.0	0.0	0.0

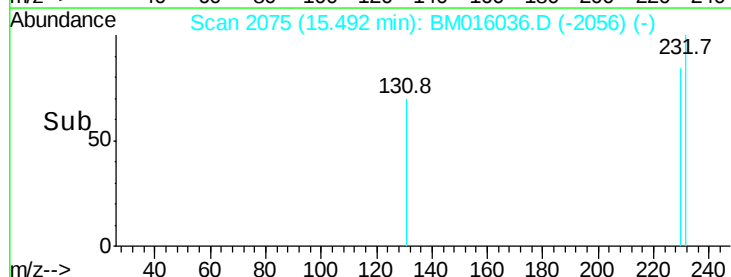
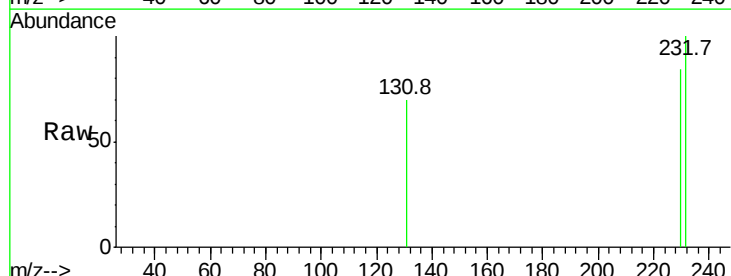
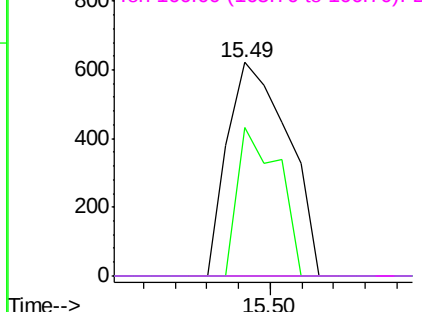
Abundance

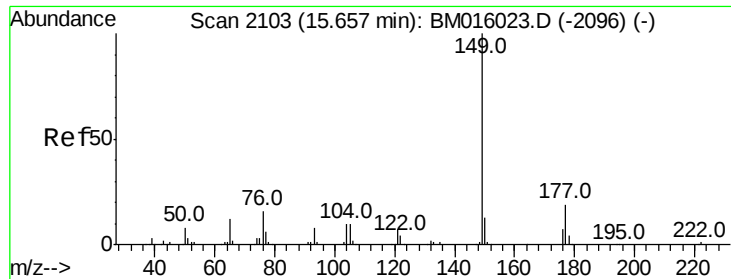
Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E





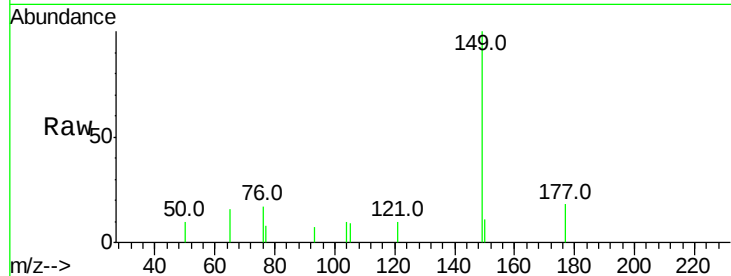
#59
Diethylphthalate
Concen: 0.797 ng
RT: 15.65 min Scan# 2102
Delta R.T. -0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

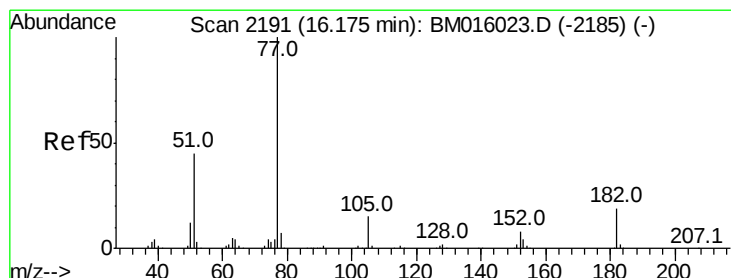
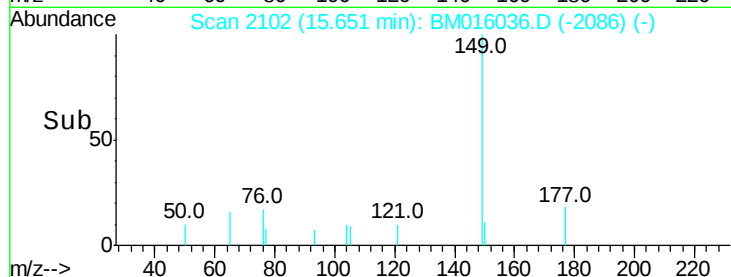
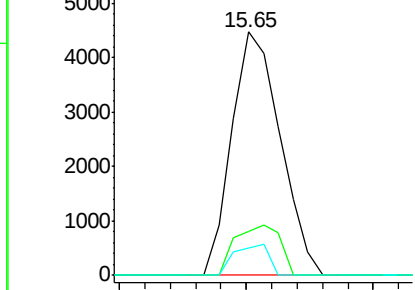
Tot Ion	Ratio	Lower	Upper
149	100		
177	17.8	18.3	27.5#
150	11.4	9.8	14.8

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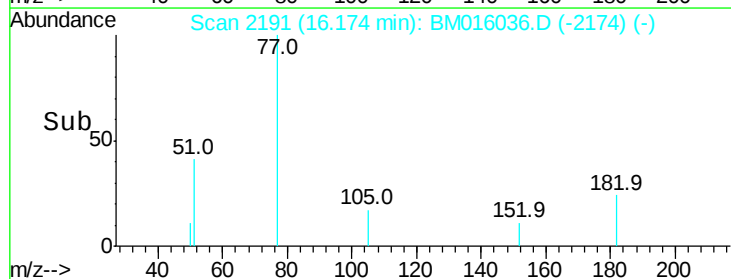
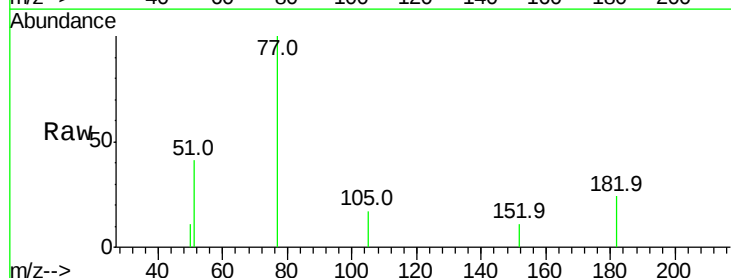
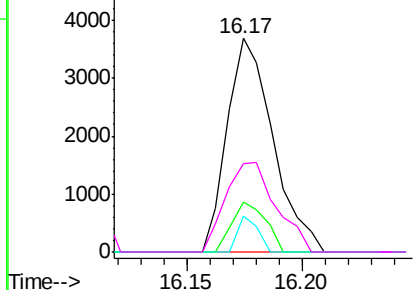
Abundance Ion 149.00 (148.70 to 149.70): E
Ion 177.00 (176.70 to 177.70): E
Ion 150.00 (149.70 to 150.70): E

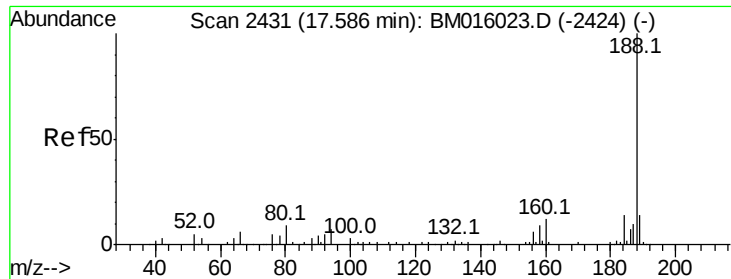


#62
Azobenzene
Concen: 0.645 ng
RT: 16.17 min Scan# 2191
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
77	100		
182	23.5	6.5	46.5
105	17.0	3.8	43.8
51	41.1	5.5	45.5

Abundance Ion 77.00 (76.70 to 77.70): BM0
Ion 182.00 (181.70 to 182.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 51.00 (50.70 to 51.70): BM0





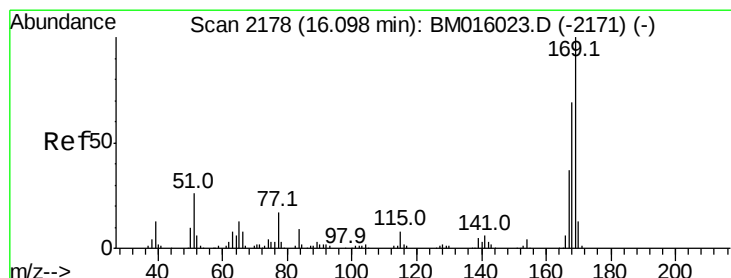
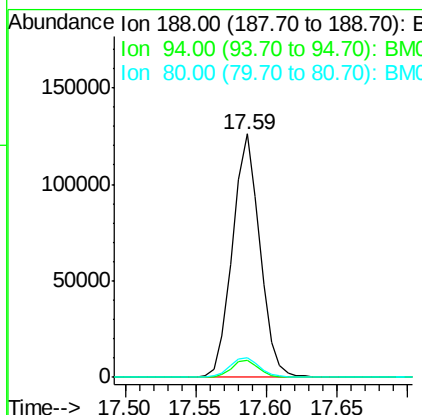
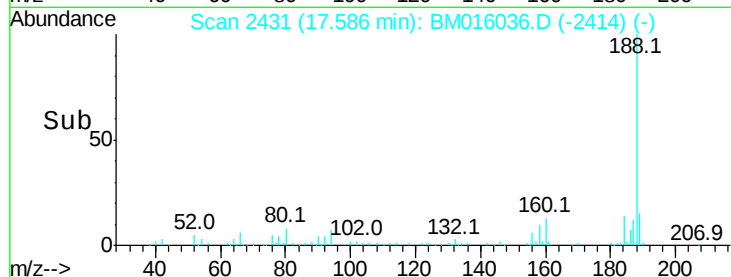
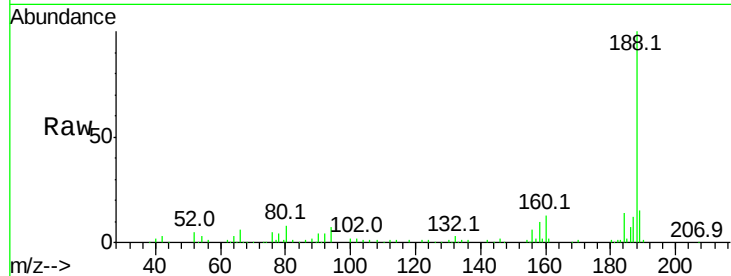
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 17.59 min Scan# 2431
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	6.8	8.7	13.1#
80	8.0	9.3	13.9#

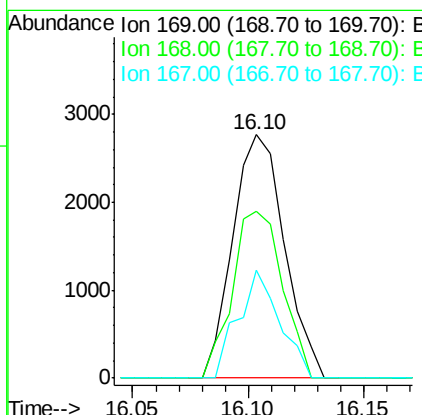
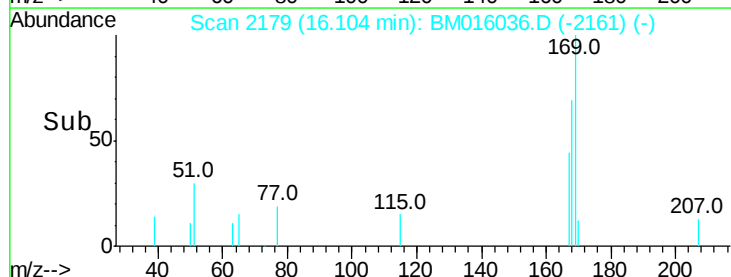
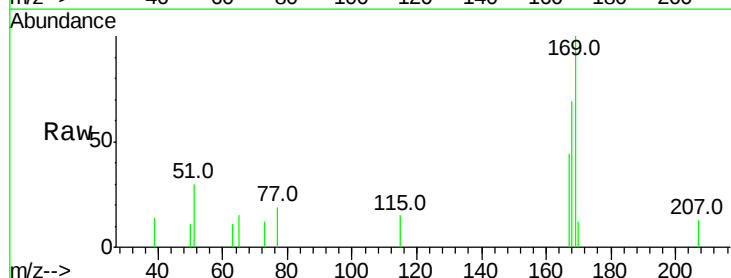
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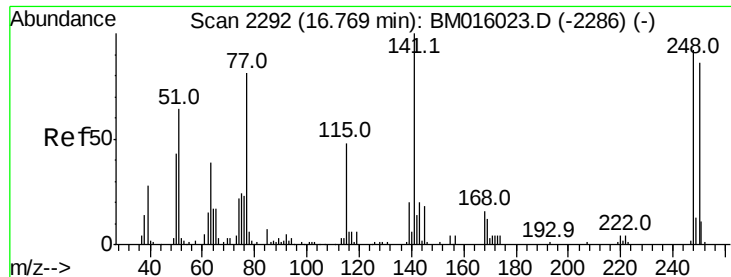
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#65
 n-Nitrosodiphenylamine
 Concen: 0.764 ng
 RT: 16.10 min Scan# 2179
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Resp Lower	Upper
169	100		
168	68.6	53.9	80.9
167	44.4	28.9	43.3#





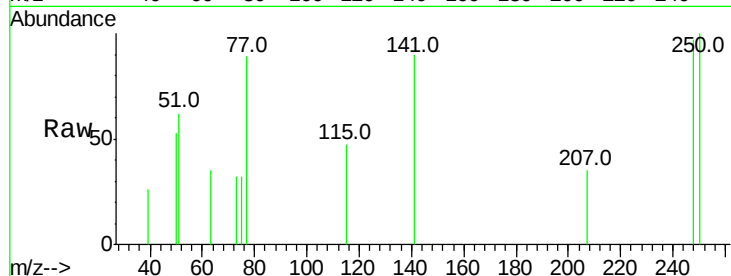
#66
 4-Bromophenyl-phenylether
 Concen: 0.735 ng
 RT: 16.78 min Scan# 2294
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

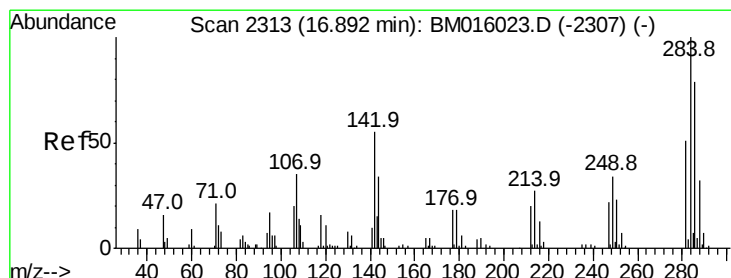
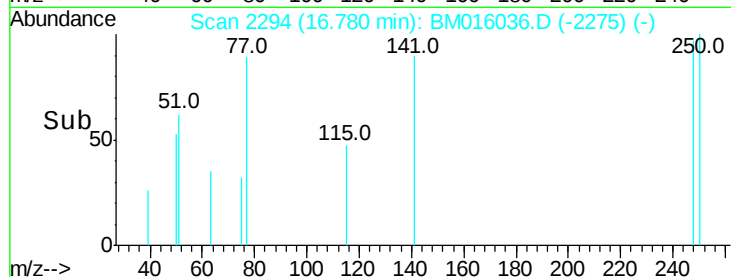
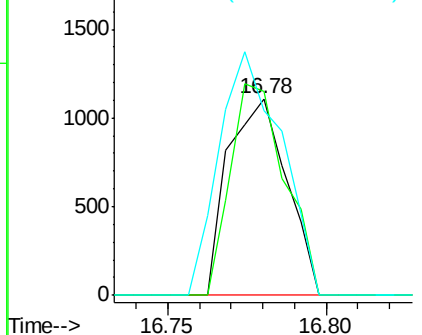
Tot Ion	Ratio	Lower	Upper
248	100		
250	103.6	77.4	116.0
141	93.7	45.2	67.8

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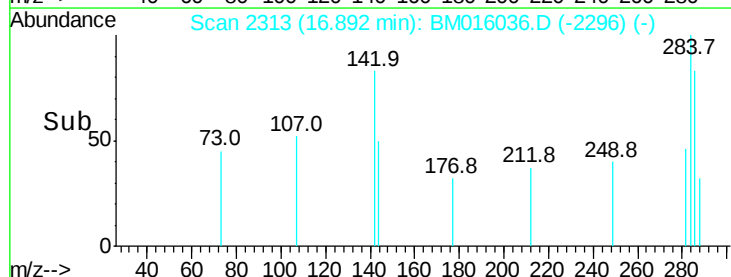
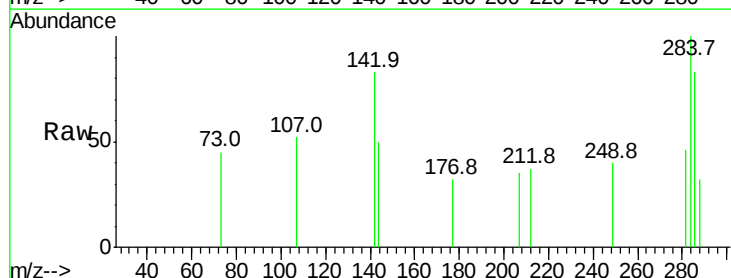
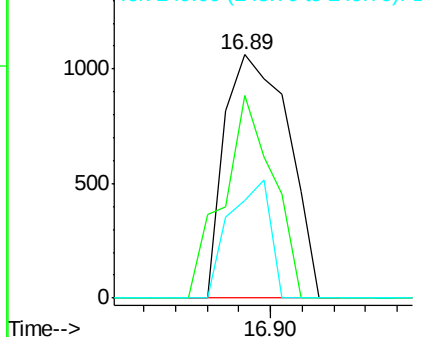
Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

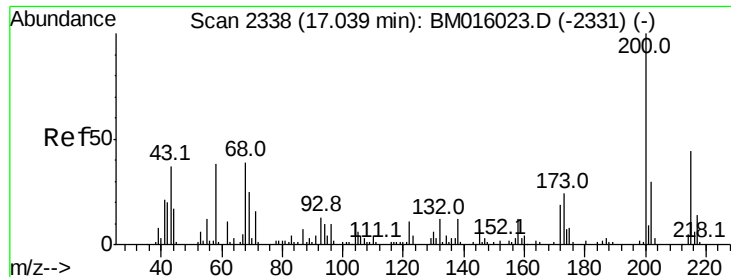


#67
 Hexachlorobenzene
 Concen: 0.693 ng
 RT: 16.89 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	83.3	20.4	30.6
249	40.0	23.8	35.6

Abundance Ion 283.80 (283.50 to 284.50): E
 Ion 142.00 (141.70 to 142.70): E
 Ion 249.00 (248.70 to 249.70): E





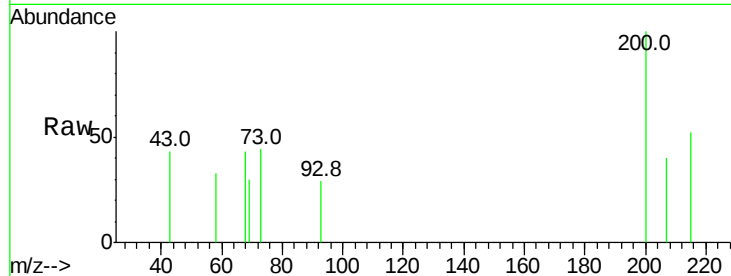
#68
 Atrazine
 Concen: 0.648 ng
 RT: 17.04 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
200	100		
173	0.0	4.8	44.8#
215	51.9	26.9	66.9

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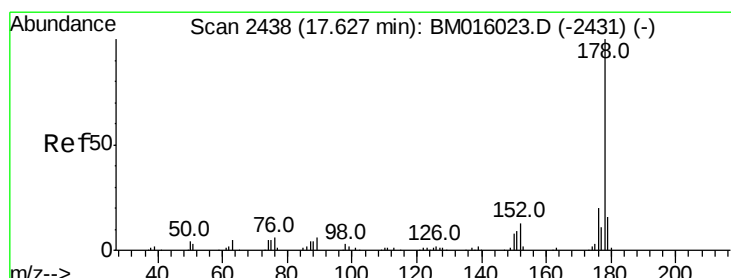
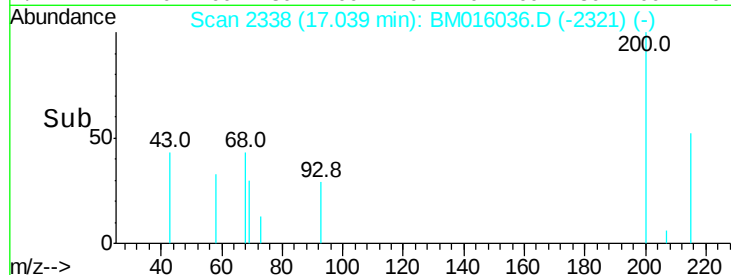
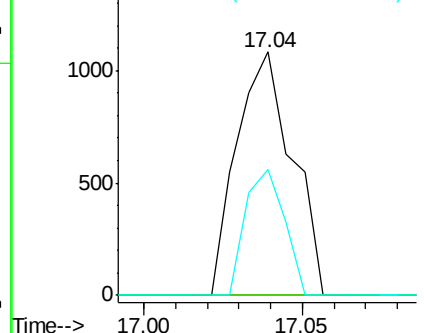


Abundance

Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#70
 Phenanthrene
 Concen: 0.970 ng
 RT: 17.63 min Scan# 2438
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

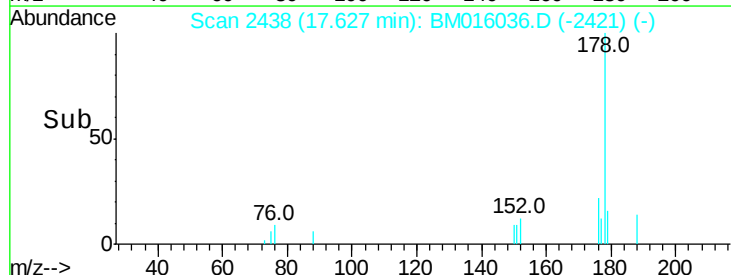
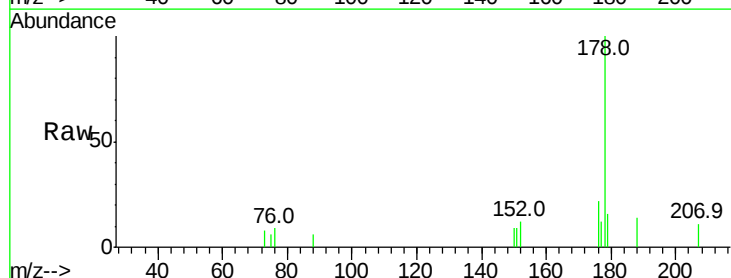
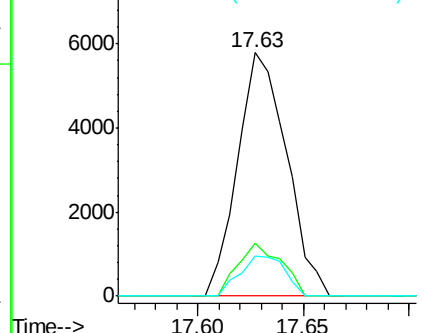
Tgt Ion	Ratio	Lower	Upper
178	100		
176	22.0	15.2	22.8
179	16.4	12.1	18.1

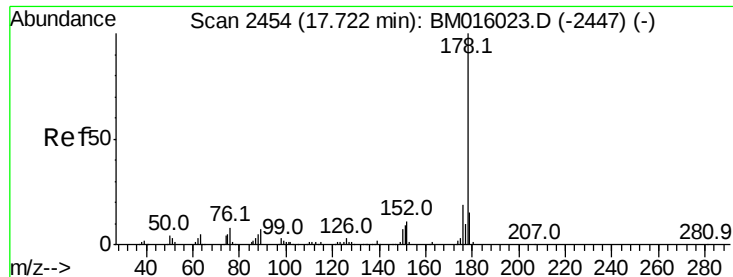
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





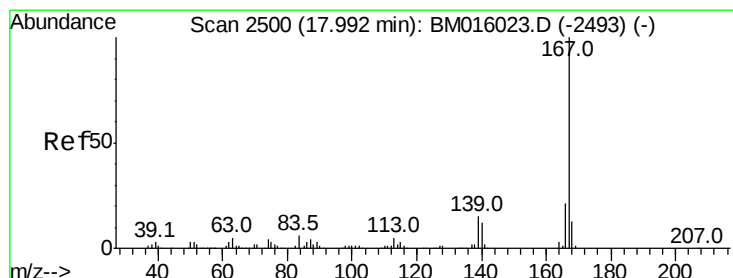
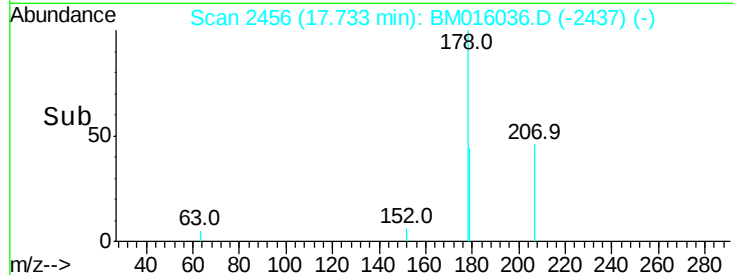
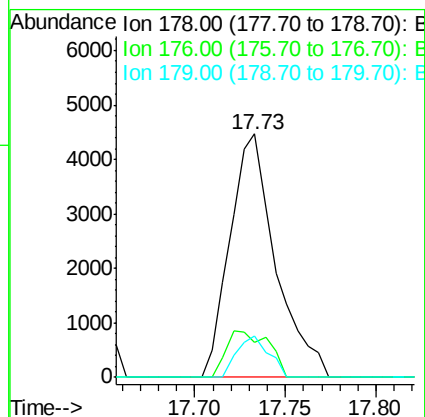
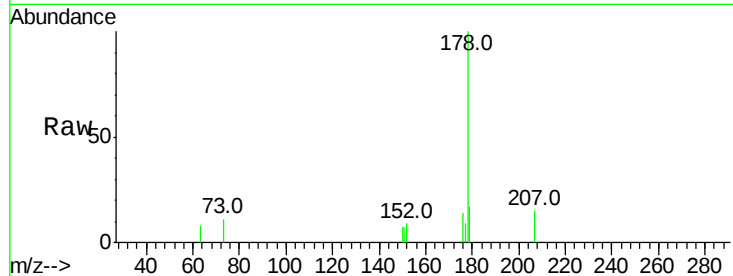
#71
 Anthracene
 Concen: 0.839 ng
 RT: 17.73 min Scan# 2456
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
178	100		
176	14.3	14.6	22.0#
179	17.1	12.6	19.0

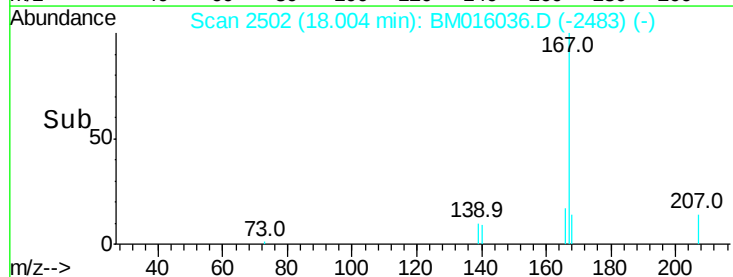
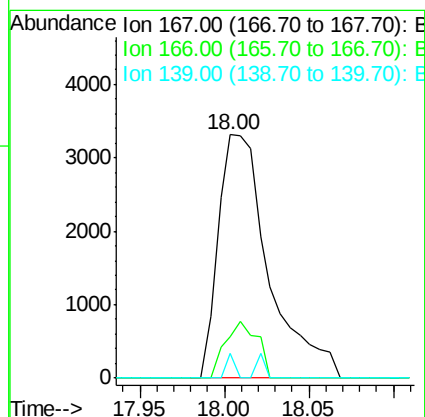
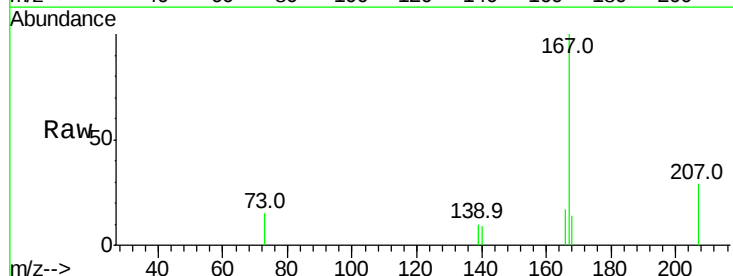
Manual Integrations
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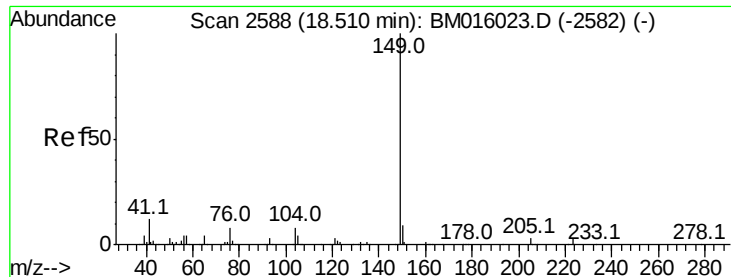
Sohil
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#72
 Carbazole
 Concen: 0.715 ng
 RT: 18.00 min Scan# 2502
 Delta R.T. 0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
167	100		
166	17.0	17.2	25.8#
139	10.0	10.8	16.2#





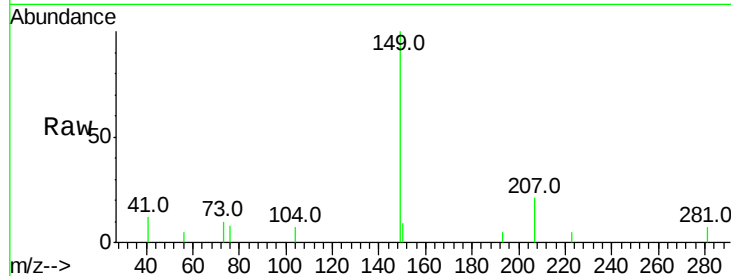
#73
Di-n-butylphthalate
Concen: 0.681 ng
RT: 18.51 min Scan# 2588
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

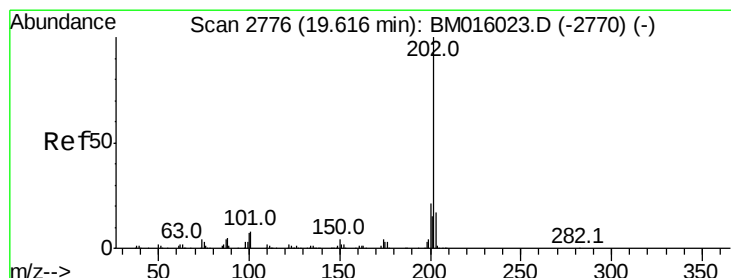
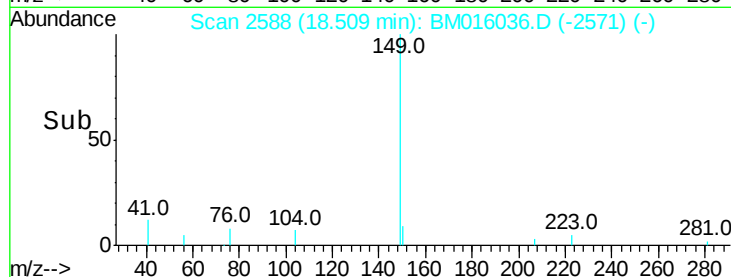
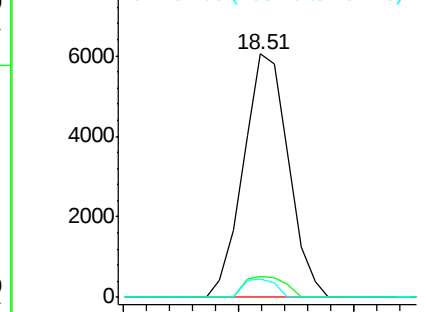
Tot Ion	Ratio	Lower	Upper
149	100		
150	8.7	7.5	11.3
104	7.3	3.7	5.5

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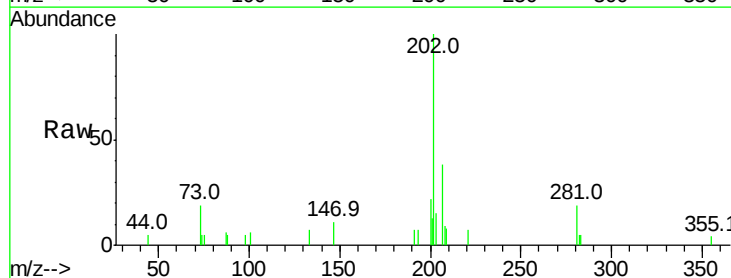


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E

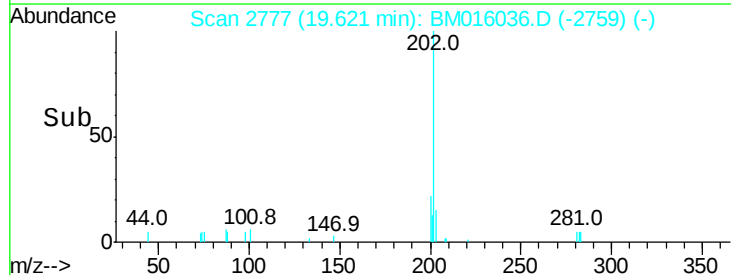
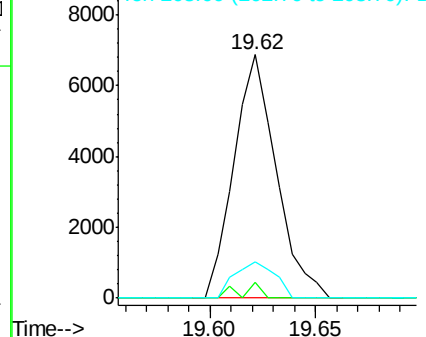


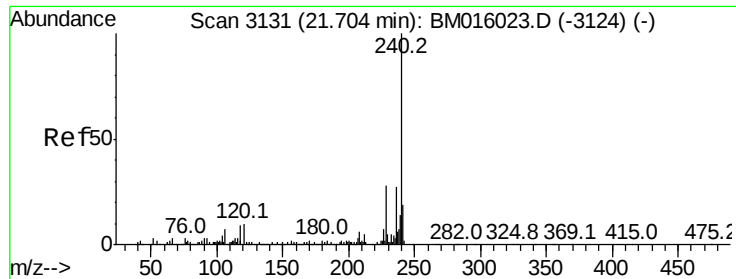
#74
Fluoranthene
Concen: 0.892 ng
RT: 19.62 min Scan# 2777
Delta R.T. 0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.4	0.0	28.7
203	15.0	0.0	37.2



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.70 min Scan# 3131

Delta R.T. -0.00 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

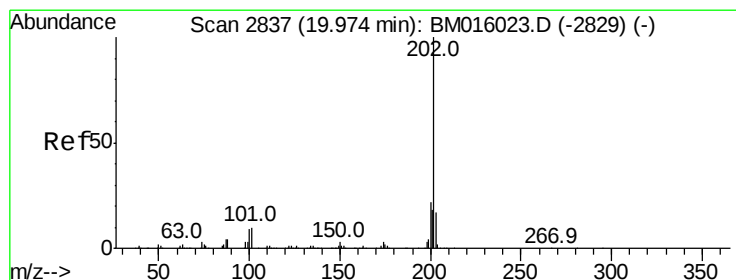
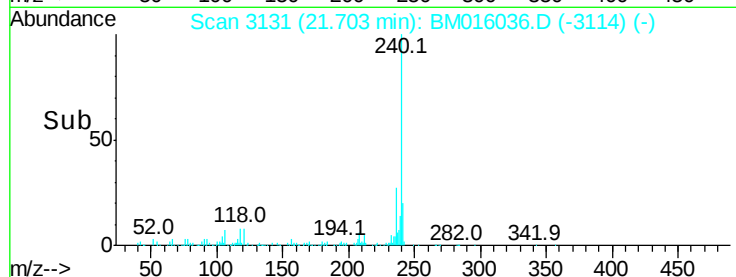
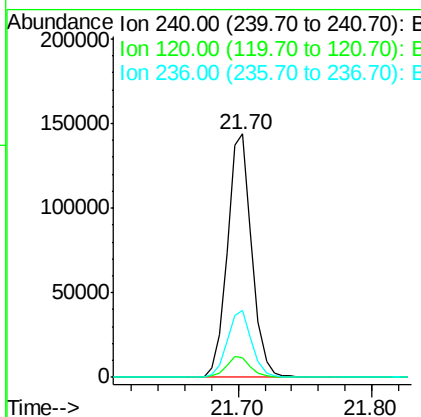
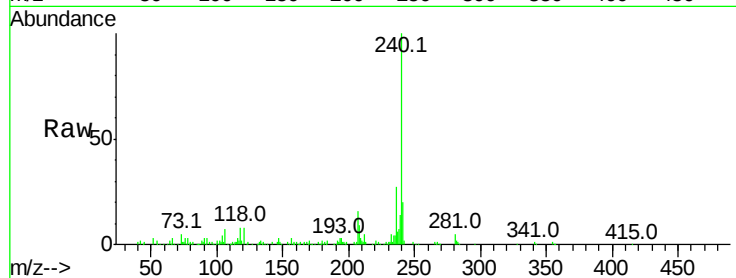
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	240	Resp:	183109
Ion Ratio	Lower	Upper	
240	100		
120	8.1	8.2	12.2#
236	27.4	20.0	30.0

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#77

Pyrene

Concen: 0.852 ng

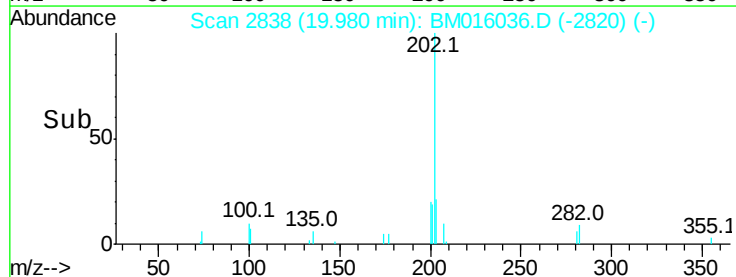
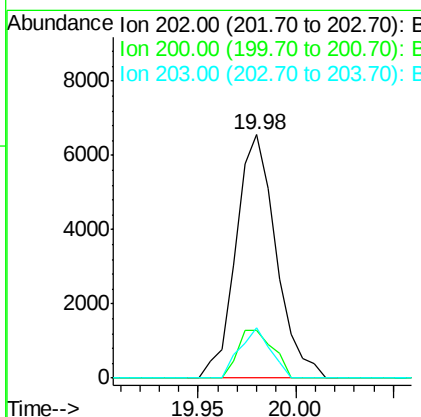
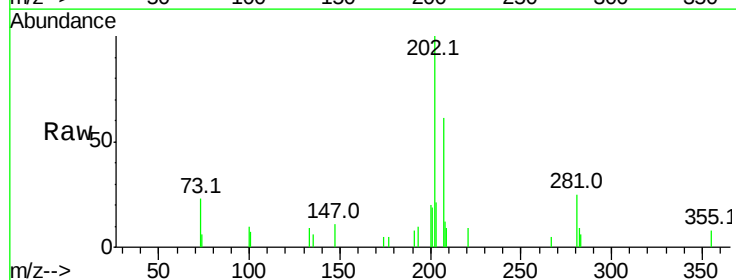
RT: 19.98 min Scan# 2838

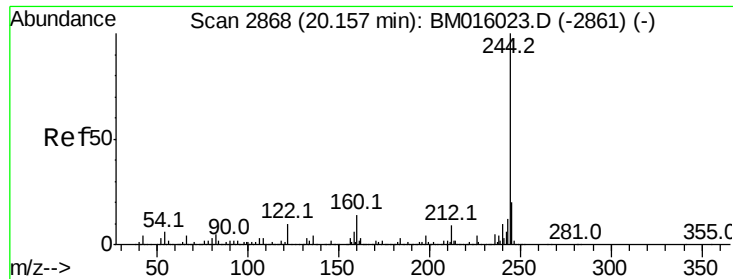
Delta R.T. 0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion:	202	Resp:	9349
Ion Ratio	Lower	Upper	
202	100		
200	19.8	16.9	25.3
203	20.6	14.1	21.1





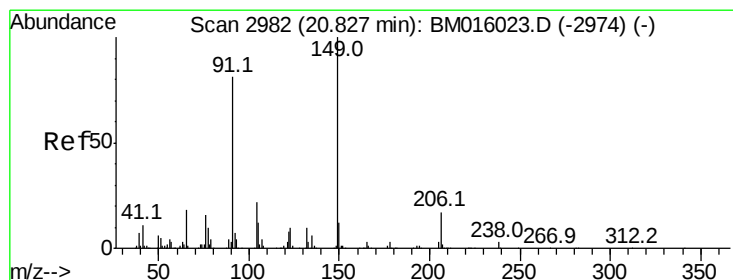
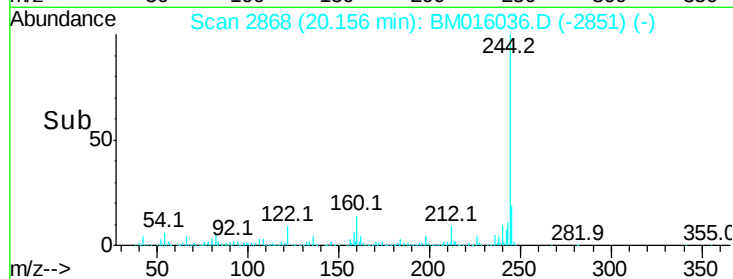
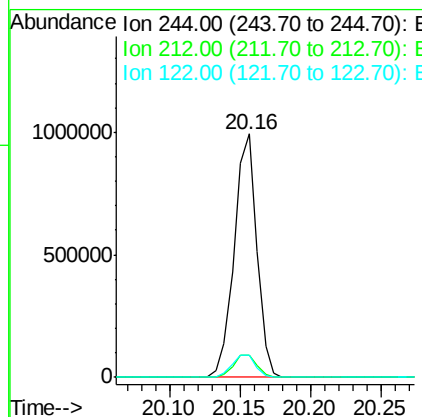
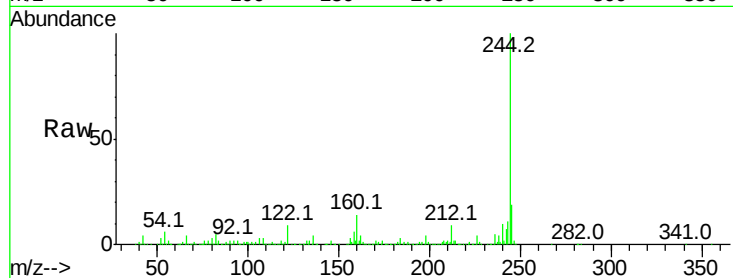
#78
 Terphenyl-d14
 Concen: 0.852 ng
 RT: 20.16 min Scan# 2868
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.4	4.9	7.3#
122	9.2	6.2	9.4

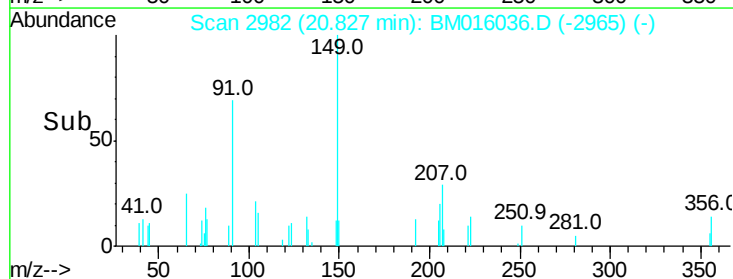
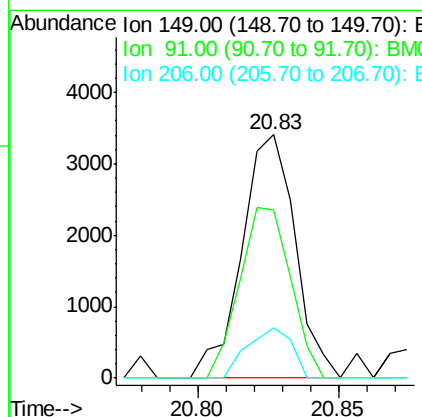
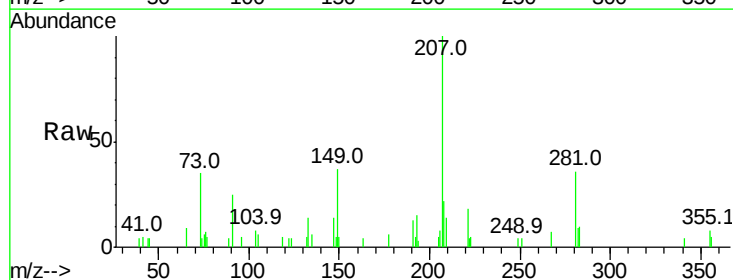
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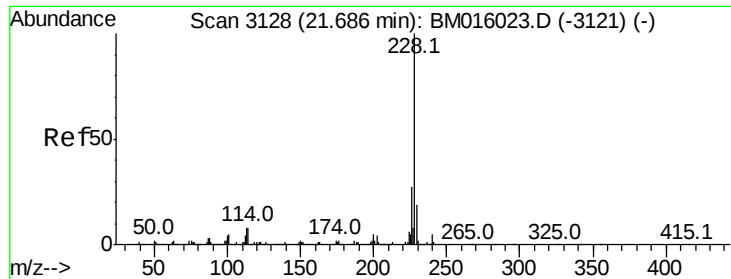
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#79
 Butylbenzylphthalate
 Concen: 0.802 ng
 RT: 20.83 min Scan# 2982
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
149	100		
91	68.9	50.1	75.1
206	20.5	16.2	24.2





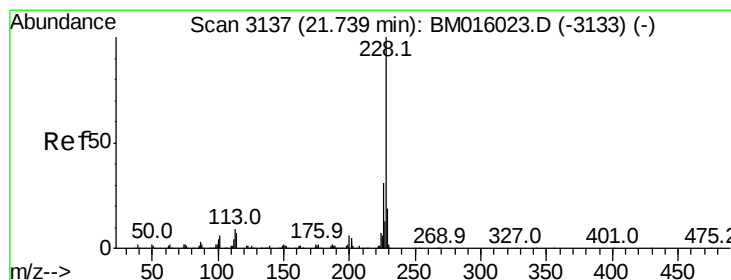
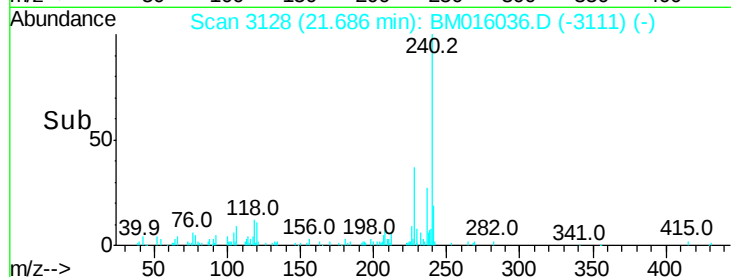
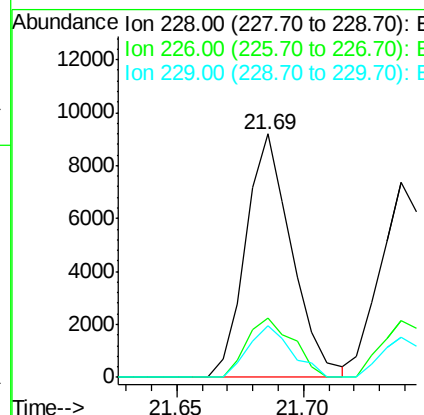
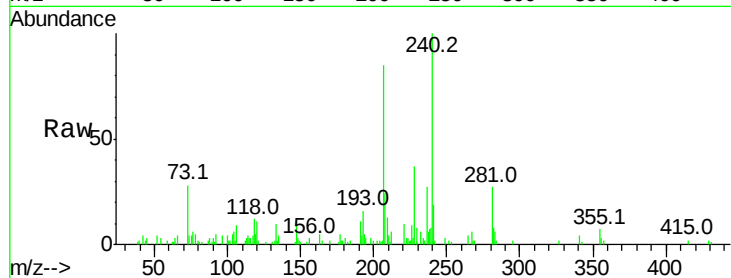
#80
Benzo(a)anthracene
Concen: 1.031 ng
RT: 21.69 min Scan# 3128
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
228	100		
226	24.2	21.7	32.5
229	21.3	16.0	24.0

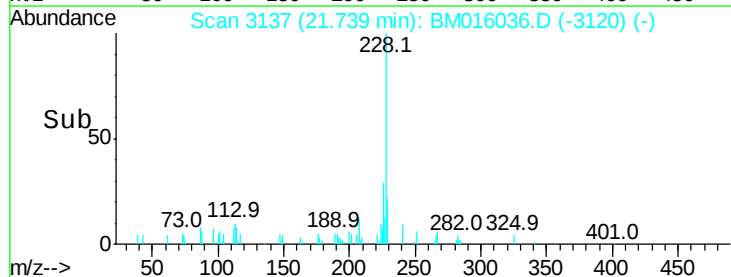
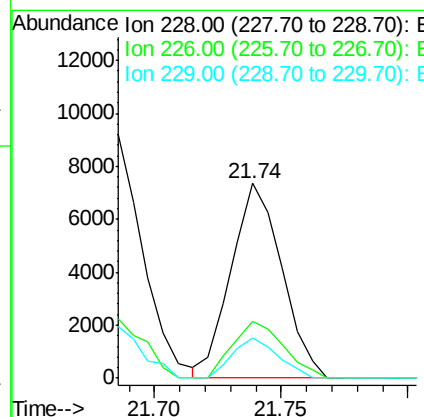
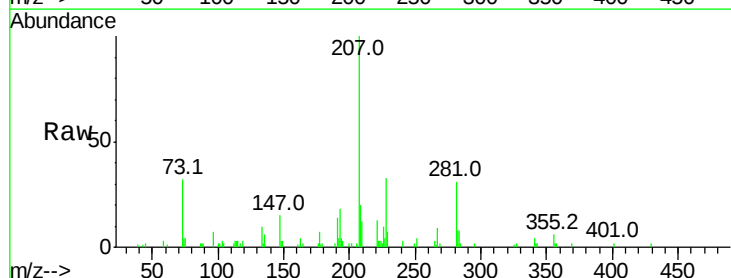
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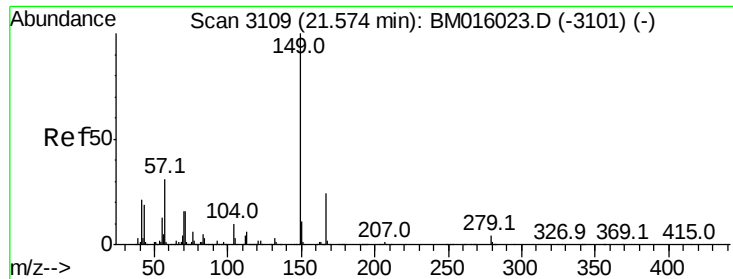
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#82
Chrysene
Concen: 0.944 ng
RT: 21.74 min Scan# 3137
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.1	36.1
229	20.8	15.5	23.3





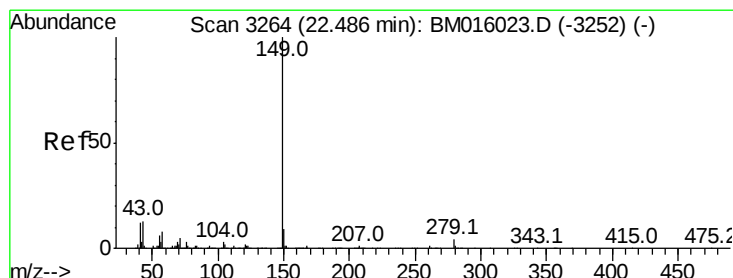
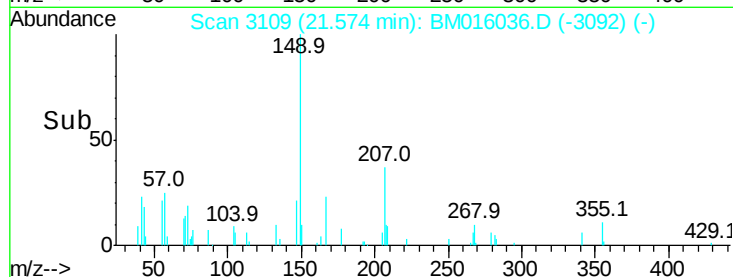
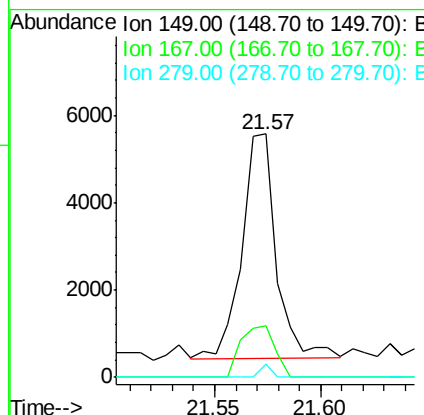
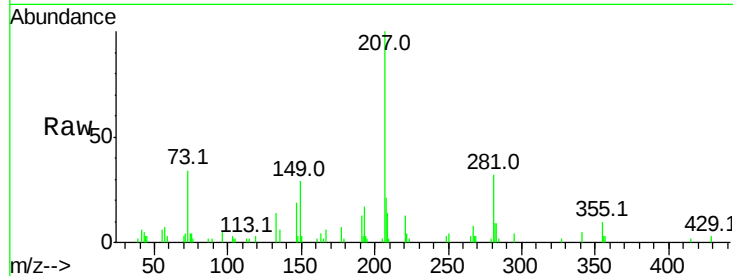
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 0.715 ng
 RT: 21.57 min Scan# 3109
 Delta R.T. -0.00 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Instrument :
 BNA_M
 ClientSampleId :
 MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
149	100		
167	21.3	22.4	33.6#
279	5.4	3.4	5.0#

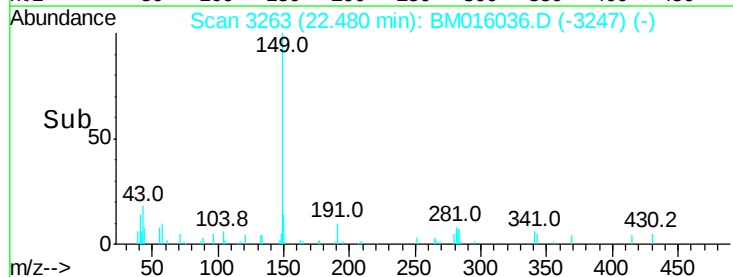
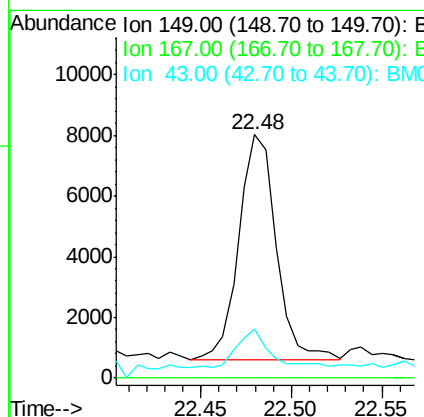
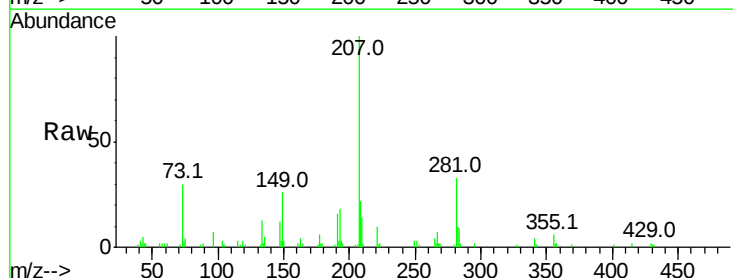
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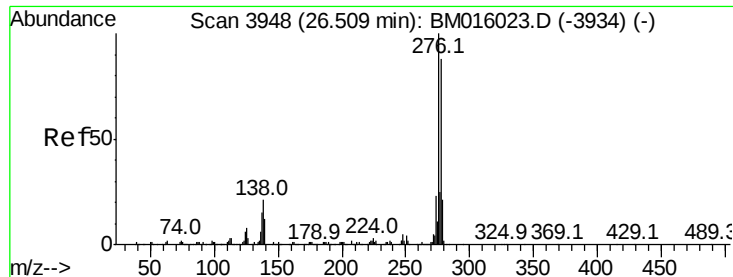
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#84
 Di-n-octyl phthalate
 Concen: 0.788 ng
 RT: 22.48 min Scan# 3263
 Delta R.T. -0.01 min
 Lab File: BM016036.D
 Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
149	100		
167	0.0	1.2	1.8#
43	17.5	7.3	10.9#





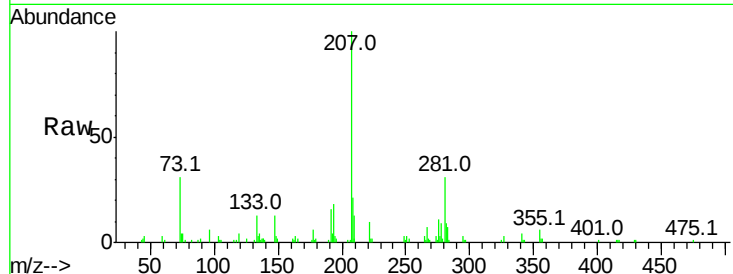
#85
Indeno(1,2,3-cd)pyrene
Concen: 0.990 ng
RT: 26.51 min Scan# 3949
Delta R.T. 0.01 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Instrument :
BNA_M
ClientSampleId :
MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.2	12.0	18.0#
277	21.7	20.0	30.0

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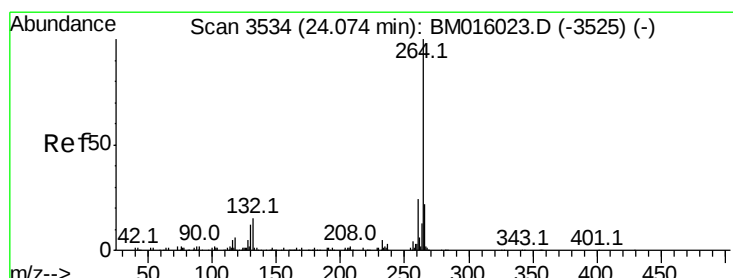
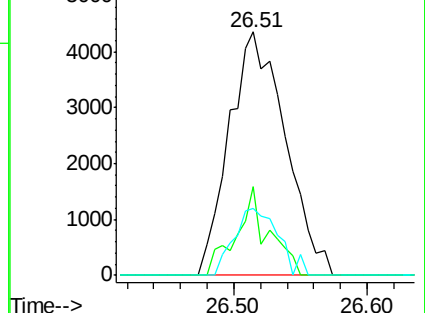
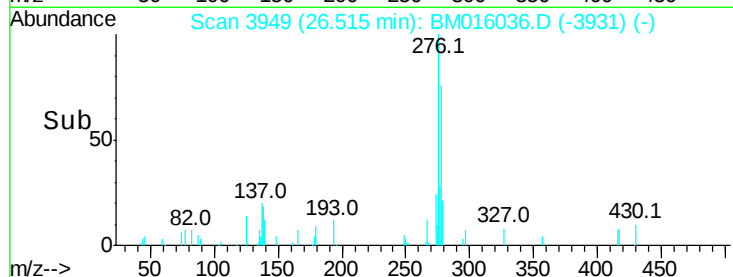


Abundance

Ion 276.00 (275.70 to 276.70): E

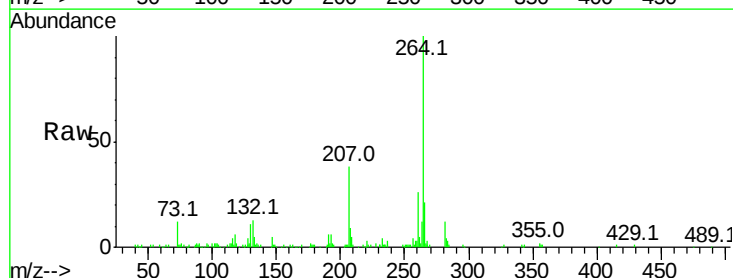
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.07 min Scan# 3534
Delta R.T. -0.00 min
Lab File: BM016036.D
Acq: 23 Jul 2018 21:28

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.5	18.6	27.8
265	21.4	17.3	25.9

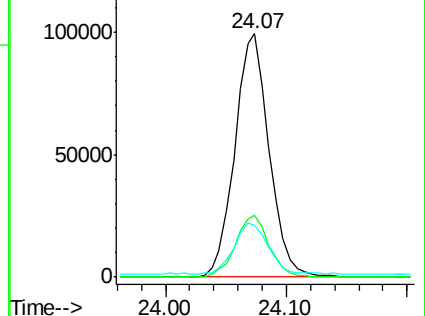
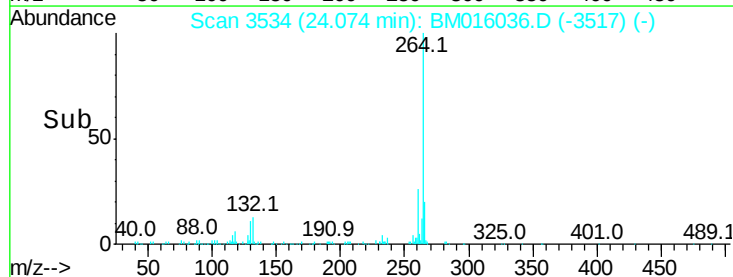


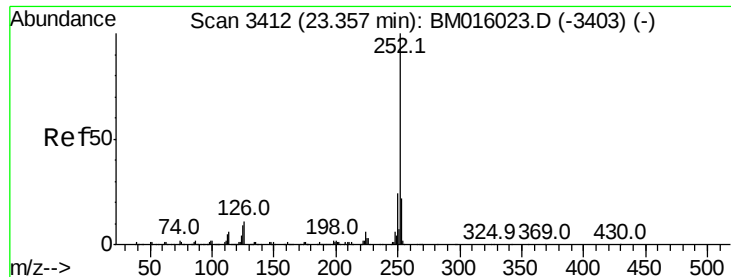
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 0.998 ng

RT: 23.36 min Scan# 3412

Delta R.T. -0.00 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

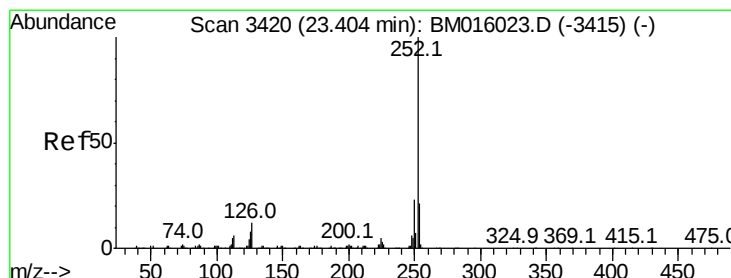
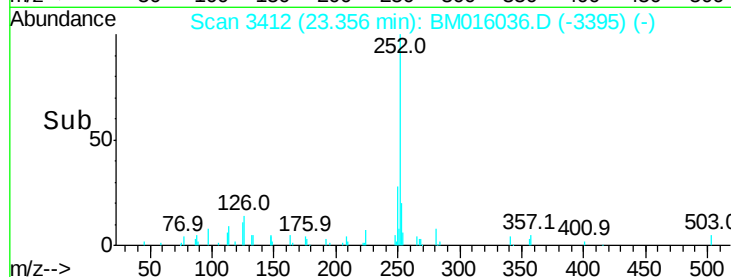
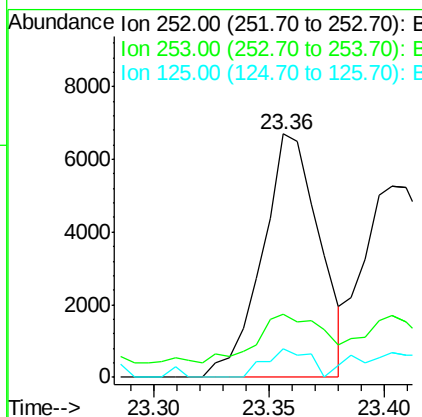
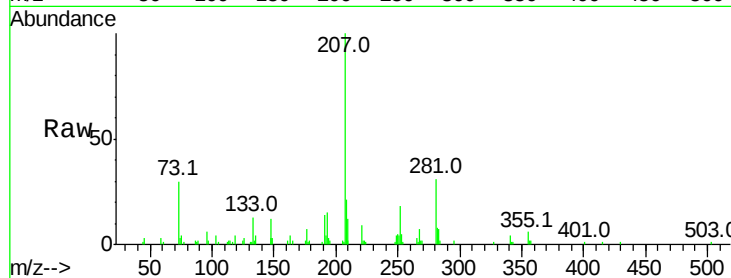
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	252	Resp:	11513
Ion Ratio	Lower	Upper	
252	100		
253	25.7	18.0	27.0
125	11.5	9.9	14.9

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#88

Benzo(k)fluoranthene

Concen: 0.965 ng m

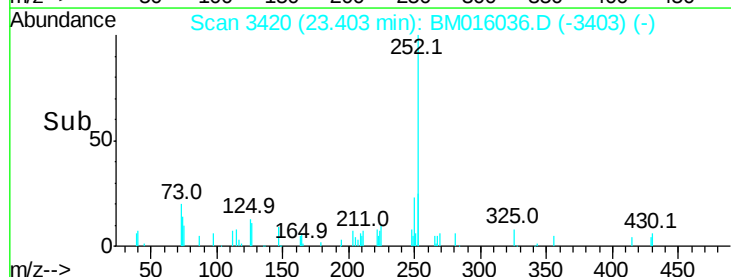
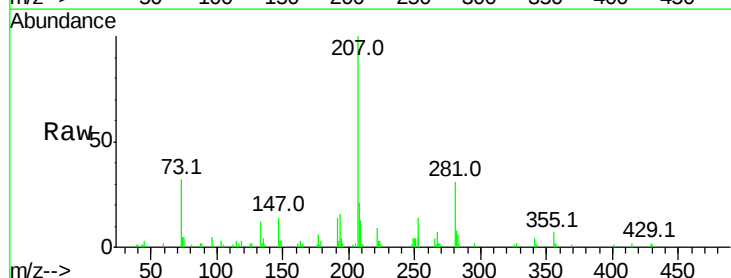
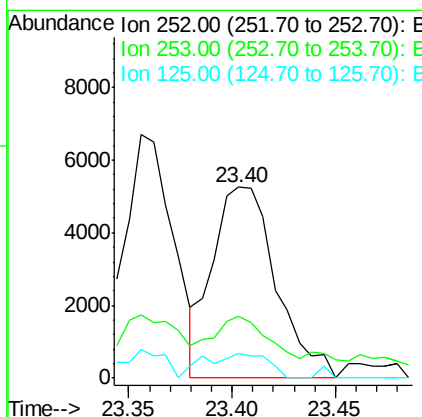
RT: 23.40 min Scan# 3420

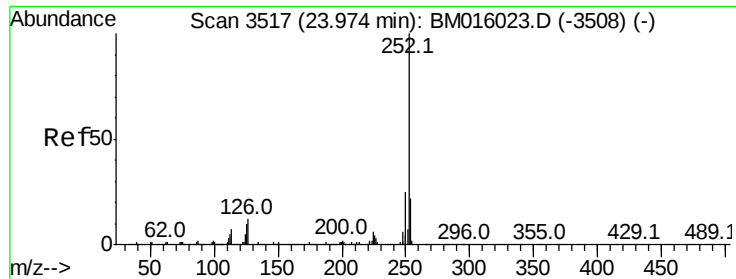
Delta R.T. -0.00 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion:	252	Resp:	11282
Ion Ratio	Lower	Upper	
252	100		
253	32.7	17.2	25.8#
125	12.8	8.1	12.1#





#89

Benzo(a)pyrene

Concen: 1.046 ng

RT: 23.98 min Scan# 3518

Delta R.T. 0.01 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

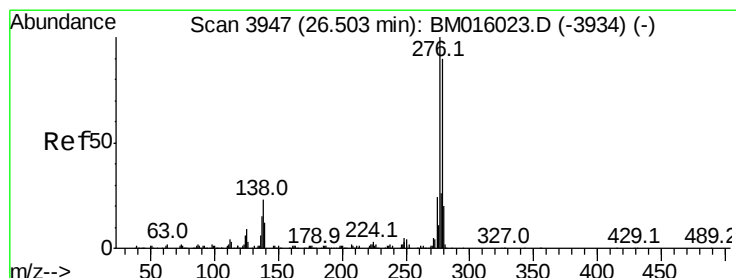
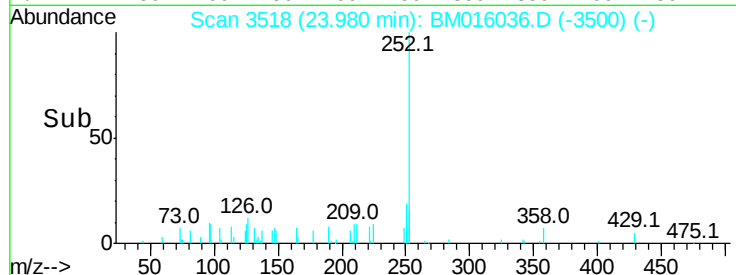
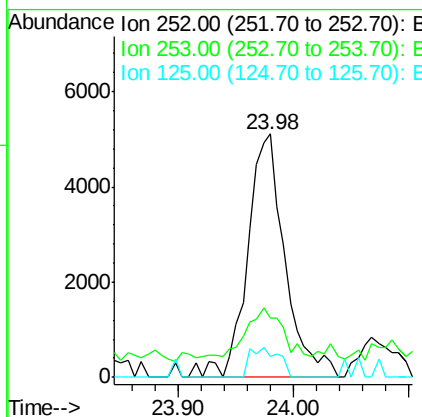
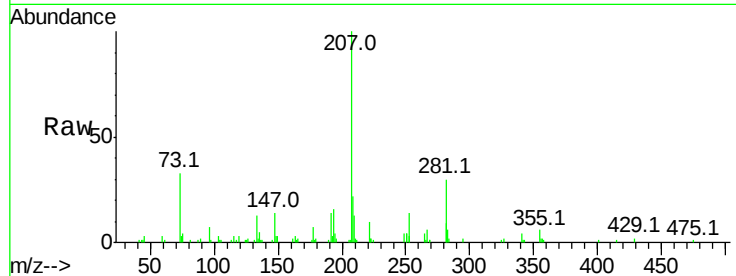
ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion:	252	Resp:	11603
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.6	26.4
125	8.8	7.4	11.2

Manual Integrations
APPROVED

Sohil
7/24/2018 5:28:52 PM



#90

Dibenzo(a,h)anthracene

Concen: 0.924 ng

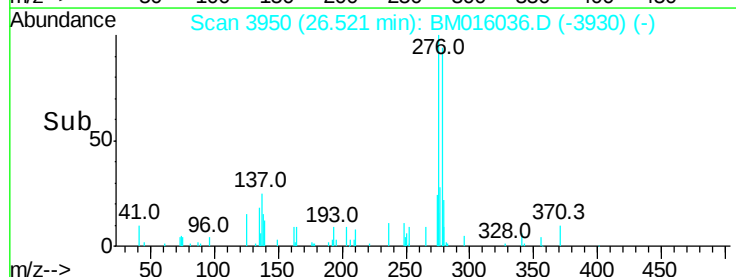
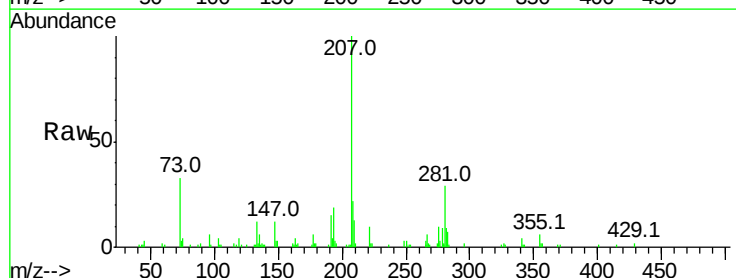
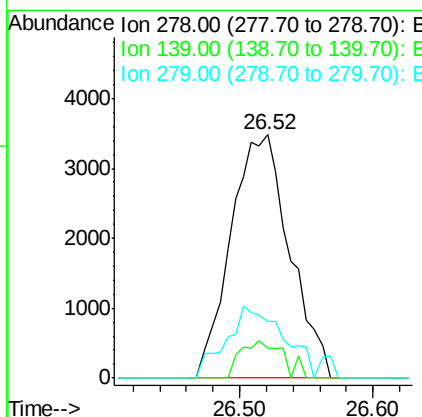
RT: 26.52 min Scan# 3950

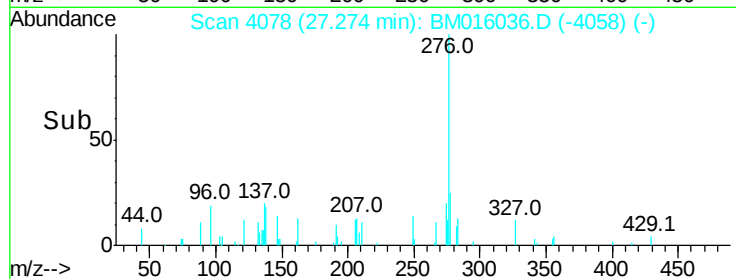
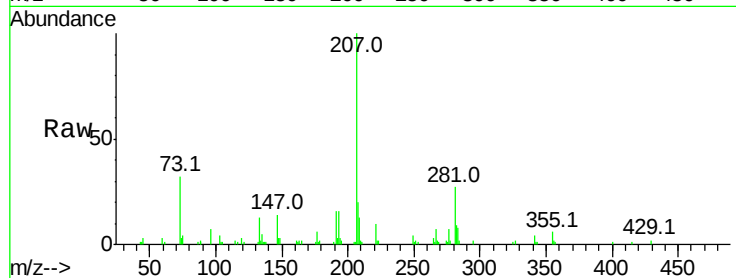
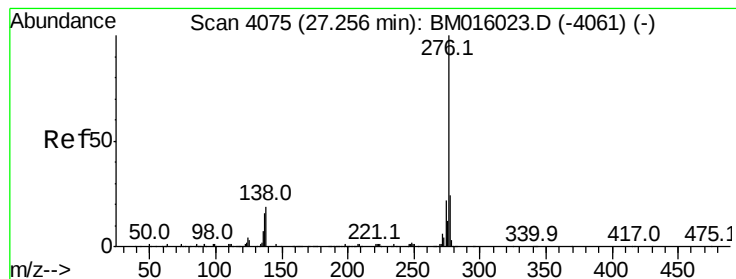
Delta R.T. 0.02 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Tgt Ion:	278	Resp:	10616
Ion Ratio	Lower	Upper	
278	100		
139	12.5	13.4	20.0#
279	23.1	19.0	28.4





#91

Benzo(a,h,i)perylene

Concen: 0.995 ng

RT: 27.27 min Scan# 4078

Delta R.T. 0.02 min

Lab File: BM016036.D

Acq: 23 Jul 2018 21:28

Instrument :

BNA_M

ClientSampleId :

MDL-SOIL-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.5	27.7
138	17.9	19.0	28.6

Manual Integrations
APPROVED

Sohil
7/24/2018 5:28:52 PM

