

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042717\
 Data File : BF094675.D
 Acq On : 27 Apr 2017 20:36
 Operator : SJ/MA
 Sample : I2870-02MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Manual Integrations
 APPROVED

mohammad
 4/28/2017 3:00:49 PM

Quant Time: Apr 28 05:47:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

4/28/2017 3:00:49 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.78	152	109816	20.00	ng	0.01
21) Naphthalene-d8	7.27	136	455739	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	216630	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	390321	20.00	ng	0.00
75) Chrysene-d12	14.48	240	296964	20.00	ng	0.00
86) Perylene-d12	16.10	264	221627	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	4.34	112	808695	122.18	ng	0.04
7) Phenol-d6	5.41	99	927127	118.81	ng	0.01
23) Nitrobenzene-d5	6.43	82	656550	88.96	ng	0.01
41) 2,4,6-Tribromophenol	10.38	330	239144	141.13	ng	0.00
44) 2-Fluorobiphenyl	8.59	172	1218484	82.76	ng	0.00
78) Terphenyl-d14	13.20	244	1179663	106.18	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.25	88	106057	27.55	ng	# 83
3) Pyridine	2.73	79	192679	22.90	ng	99
4) n-Nitrosodimethylamine	2.67	42	133224	38.27	ng	83
6) Aniline	5.41	93	221468	21.36	ng	# 52
8) 2-Chlorophenol	5.55	128	322769	42.85	ng	97
9) Benzaldehyde	5.28	77	79524	13.40	ng	94
10) Phenol	5.42	94	342363	35.71	ng	98
11) bis(2-Chloroethyl)ether	5.49	93	299618	42.78	ng	98
12) 1,3-Dichlorobenzene	5.71	146	171830	20.59	ng	96
13) 1,4-Dichlorobenzene	5.80	146	184646	21.99	ng	96
14) 1,2-Dichlorobenzene	5.97	146	179527	23.21	ng	97
15) Benzyl Alcohol	5.95	79	256290	44.28	ng	98
16) 2,2'-oxybis(1-Chloropropan	6.11	45	359164	39.12	ng	66
17) 2-Methylphenol	6.10	107	256052	43.16	ng	94
18) Hexachloroethane	6.35	117	51934	18.04	ng	# 86
19) n-Nitroso-di-n-propylamine	6.27	70	230046	44.49	ng	95
20) 3+4-Methylphenols	6.28	107	353669	43.87	ng	# 60
22) Acetophenone	6.25	105	464389	41.91	ng	# 84
24) Nitrobenzene	6.45	77	320169	41.19	ng	96
25) Isophorone	6.74	82	599523	43.82	ng	94
26) 2-Nitrophenol	6.82	139	179885	43.08	ng	95
27) 2,4-Dimethylphenol	6.90	122	297320	43.84	ng	97
28) bis(2-Chloroethoxy)methane	7.00	93	387263	43.76	ng	99
29) 2,4-Dichlorophenol	7.12	162	284006	45.01	ng	100
30) 1,2,4-Trichlorobenzene	7.20	180	197661	30.30	ng	99
31) Naphthalene	7.30	128	727465	33.20	ng	99
32) Benzoic acid	7.10	122	175577	48.95	ng	94
33) 4-Chloroaniline	7.38	127	73615	8.08	ng	# 91
34) Hexachlorobutadiene	7.45	225	81608	25.09	ng	99
35) Caprolactam	7.85	113	68050m	34.33	ng	
36) 4-Chloro-3-methylphenol	8.00	107	302329	45.72	ng	88
37) 2-Methylnaphthalene	8.13	142	600222	40.04	ng	98
39) 1,2,4,5-Tetrachlorobenzene	8.34	216	244316	39.61	ng	100
40) Hexachlorocyclopentadiene	8.32	237	164021	65.73	ng	98

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Manual Integrations
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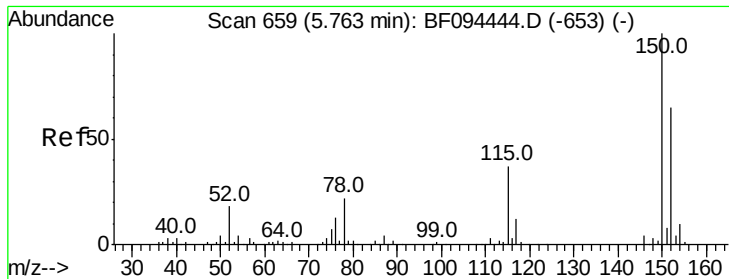
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	8.50	196	192317	44.39	nq	96
43) 2,4,5-Trichlorophenol	8.55	196	202285	45.47	nq	94
45) 1,1'-Biphenyl	8.71	154	743509	42.01	nq	98
46) 2-Chloronaphthalene	8.72	162	579420	41.17	nq	94
47) 2-Nitroaniline	8.87	65	177328	43.80	nq	88
48) Acenaphthylene	9.23	152	930329	42.41	nq	98
49) Dimethylphthalate	9.11	163	745168	46.16	nq	98
50) 2,6-Dinitrotoluene	9.17	165	167769	46.30	nq	91
51) Acenaphthene	9.44	154	567435	43.18	nq	100
52) 3-Nitroaniline	9.38	138	81160	19.36	nq	92
53) 2,4-Dinitrophenol	9.52	184	172689	87.26	nq	# 66
54) Dibenzofuran	9.66	168	850667	44.54	nq	99
55) 4-Nitrophenol	9.64	139	156701m	52.91	nq	
56) 2,4-Dinitrotoluene	9.68	165	219610	49.39	nq	98
57) Fluorene	10.08	166	660775	44.43	nq	99
58) 2,3,4,6-Tetrachlorophenol	9.82	232	148558	46.59	nq	# 95
59) Diethylphthalate	9.97	149	710314	46.63	nq	99
60) 4-Chlorophenyl-phenylether	10.08	204	285612	46.15	nq	93
61) 4-Nitroaniline	10.14	138	160596	37.68	nq	96
62) Azobenzene	10.28	77	670888	45.36	nq	93
64) 4,6-Dinitro-2-methylphenol	10.18	198	118133	46.19	nq	# 74
65) n-Nitrosodiphenylamine	10.24	169	600226	44.22	nq	99
66) 4-Bromophenyl-phenylether	10.69	248	170984	44.12	nq	92
67) Hexachlorobenzene	10.76	284	177901	45.55	nq	# 92
68) Atrazine	10.92	200	182422	44.92	nq	97
69) Pentachlorophenol	11.01	266	162556	104.81	nq	99
70) Phenanthrene	11.25	178	964784	43.89	nq	98
71) Anthracene	11.32	178	997810	43.89	nq	98
72) Carbazole	11.53	167	917975	43.02	nq	97
73) Di-n-butylphthalate	11.98	149	1137357	48.41	nq	99
74) Fluoranthene	12.72	202	994622	43.66	nq	98
76) Benzidine	12.89	184	96024	7.99	nq	# 91
77) Pyrene	12.99	202	999756	48.19	nq	99
79) Butylbenzylphthalate	13.81	149	484527	53.29	nq	90
80) Benzo(a)anthracene	14.47	228	774984	44.90	nq	99
81) 3,3'-Dichlorobenzidine	14.44	252	162358	26.57	nq	# 97
82) Chrysene	14.51	228	708889	44.94	nq	99
83) Bis(2-ethylhexyl)phthalate	14.52	149	668417	54.75	nq	99
84) Di-n-octyl phthalate	15.28	149	1093971	53.42	nq	97
85) Indeno(1,2,3-cd)pyrene	17.39	276	608899	40.57	nq	99
87) Benzo(b)fluoranthene	15.70	252	599370	44.21	nq	98
88) Benzo(k)fluoranthene	15.73	252	609728	47.52	nq	95
89) Benzo(a)pyrene	16.05	252	556563	44.13	nq	100
90) Dibenzo(a,h)anthracene	17.40	278	507419	48.45	nq	98
91) Benzo(g,h,i)perylene	17.77	276	508461	47.69	nq	98

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



#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.78 min Scan# 653
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

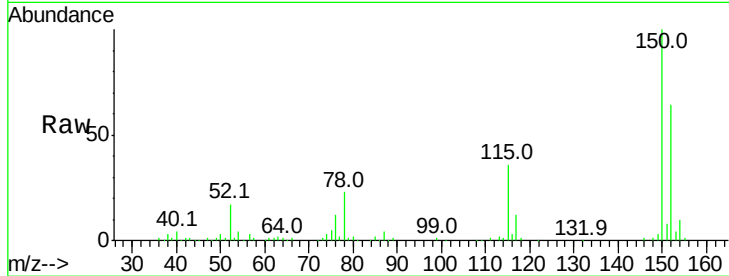
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	126.2	189.2
115	57.3	52.2	78.2

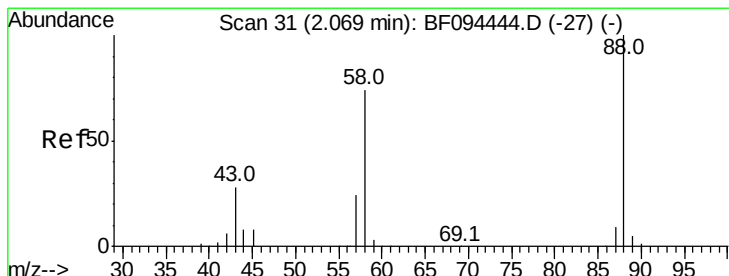
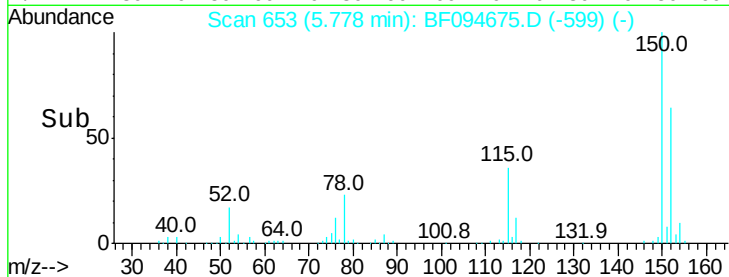
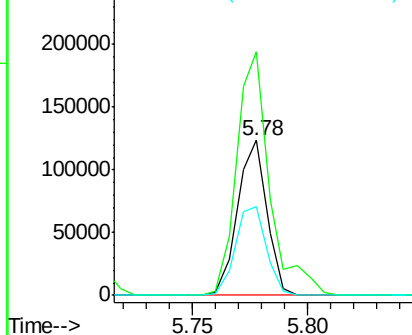
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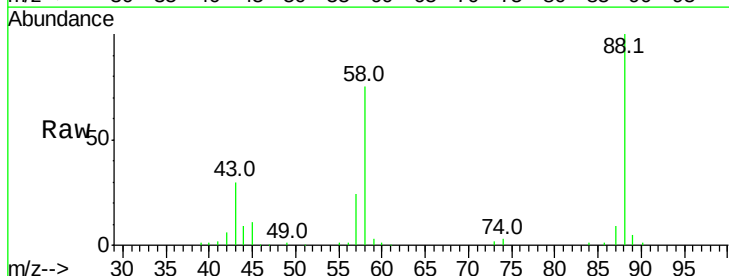
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



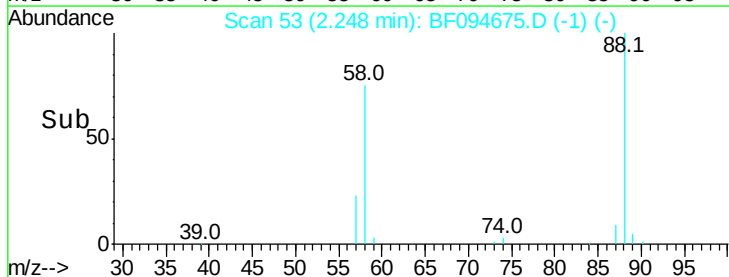
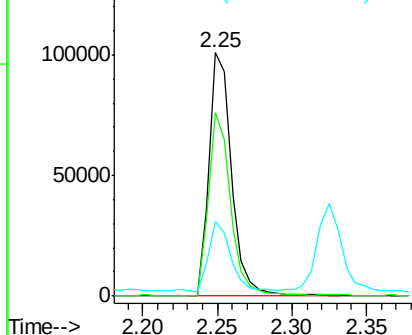
#2

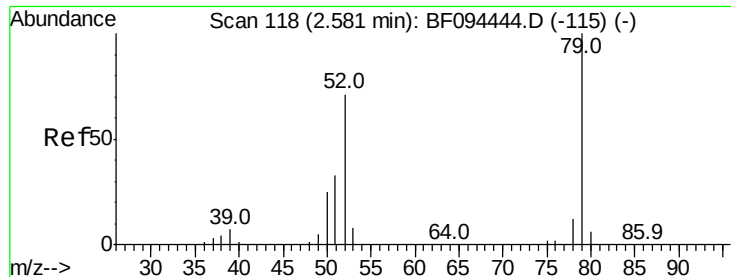
1,4-Dioxane
Concen: 27.55 ng
RT: 2.25 min Scan# 53
Delta R.T. 0.18 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Lower	Upper
88	100		
58	74.1	61.4	92.0
43	0.0	23.4	35.0



Abundance Ion 88.00 (87.70 to 88.70): BF0
Ion 58.00 (57.70 to 58.70): BF0
Ion 43.00 (42.70 to 43.70): BF0





#3

Pvridine

Concen: 22.90 ng

RT: 2.73 min Scan# 135

Delta R.T. 0.15 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

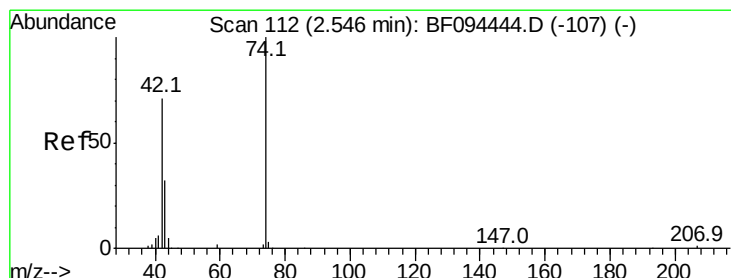
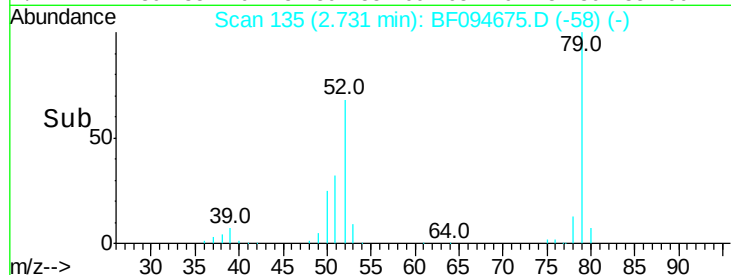
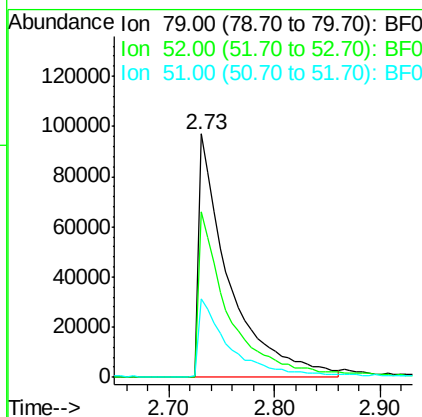
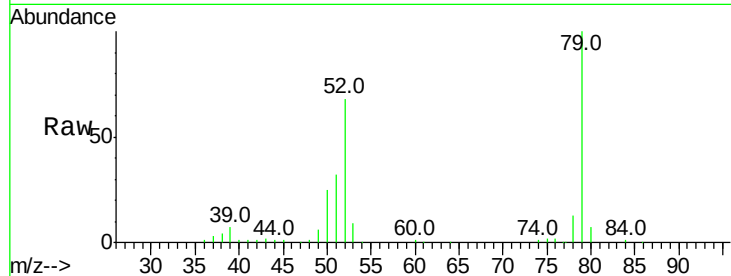
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	79	Resp:	192679
Ion Ratio	Lower	Upper	
79	100		
52	68.2	54.8	82.2
51	32.2	27.0	40.4

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#4

n-Nitrosodimethylamine

Concen: 38.27 ng

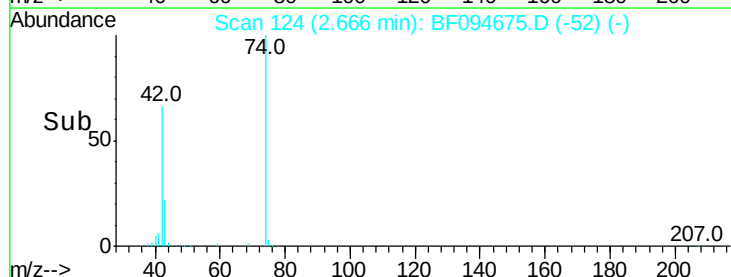
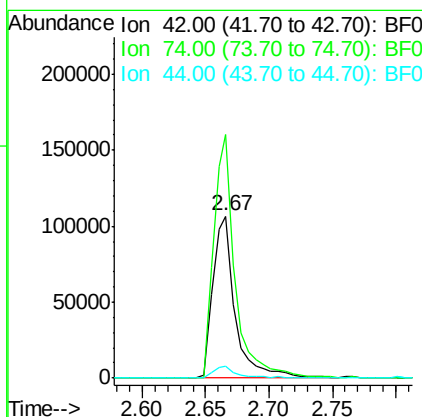
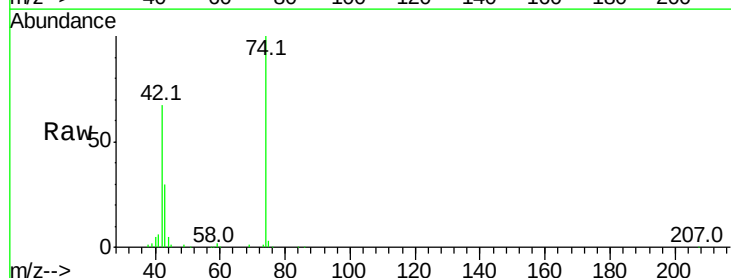
RT: 2.67 min Scan# 124

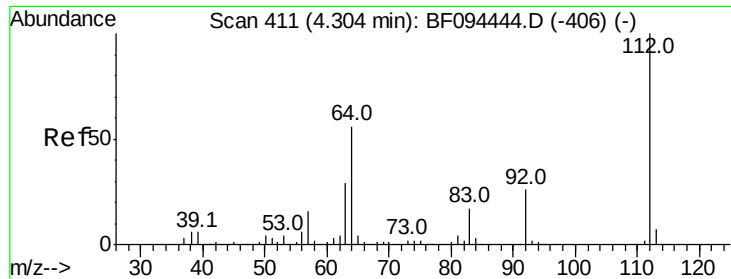
Delta R.T. 0.12 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	42	Resp:	133224
Ion Ratio	Lower	Upper	
42	100		
74	150.3	103.9	155.9
44	7.0	5.7	8.5





#5

2-Fluorophenol

Concen: 122.18 ng

RT: 4.34 min Scan# 409

Delta R.T. 0.04 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

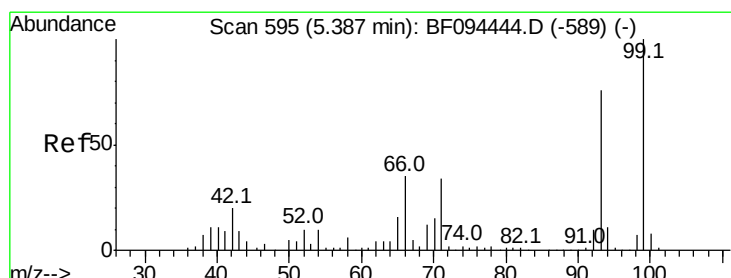
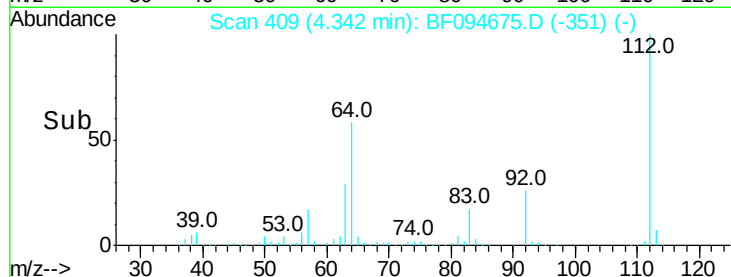
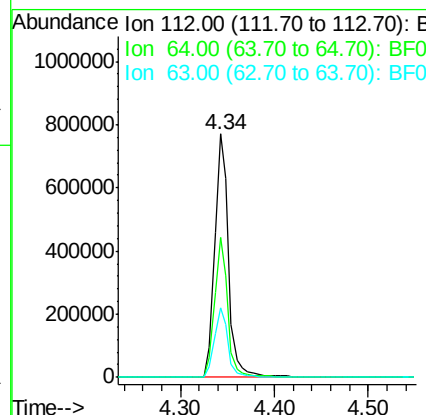
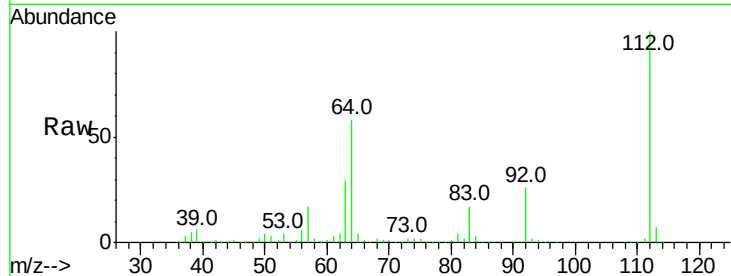
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	112	Resp:	808695
Ion Ratio	Lower	Upper	
112	100		
64	57.7	46.0	69.0
63	28.7	23.4	35.0

Manual Integrations
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#6

Aniline

Concen: 21.36 ng

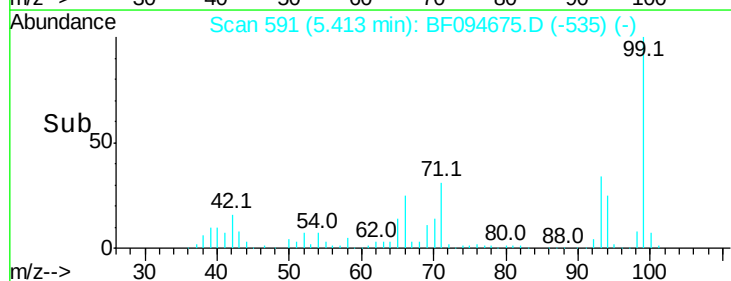
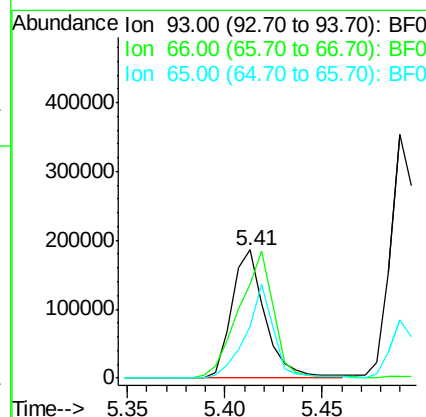
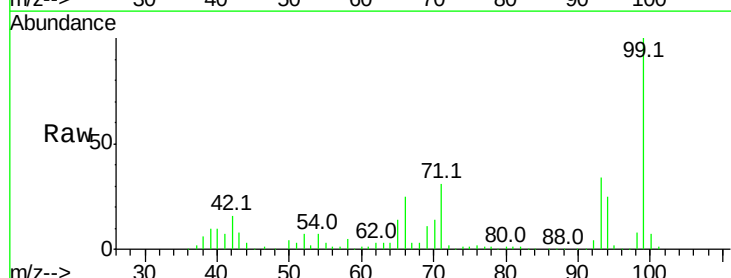
RT: 5.41 min Scan# 591

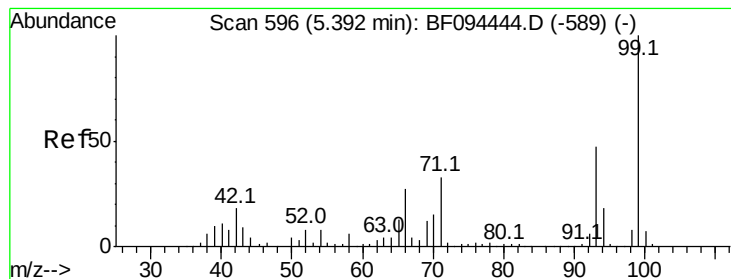
Delta R.T. 0.03 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	93	Resp:	221468
Ion Ratio	Lower	Upper	
93	100		
66	72.9	32.9	49.3#
65	39.9	16.0	24.0#





#7

Phenol-d6

Concen: 118.81 ng

RT: 5.41 min Scan# 590

Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

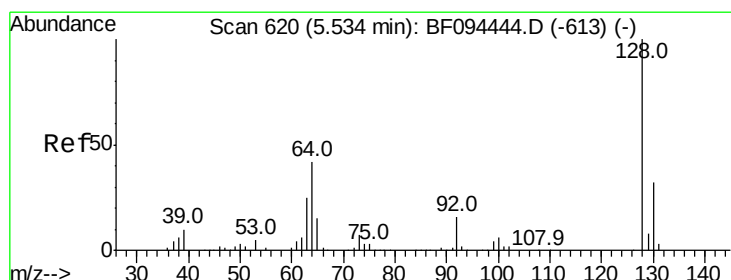
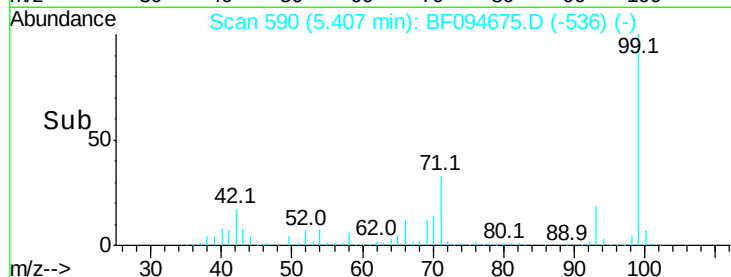
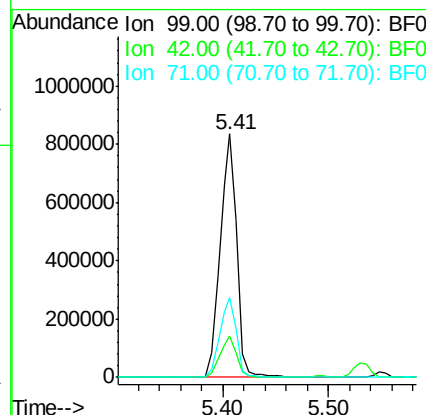
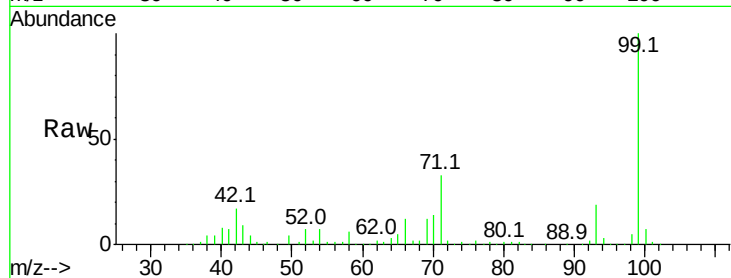
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	99	Resp:	927127
Ion Ratio	Lower	Upper	
99	100		
42	17.2	13.5	20.3
71	33.0	24.5	36.7

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#8

2-Chlorophenol

Concen: 42.85 ng

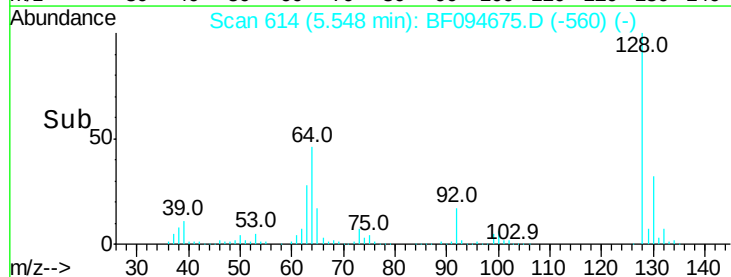
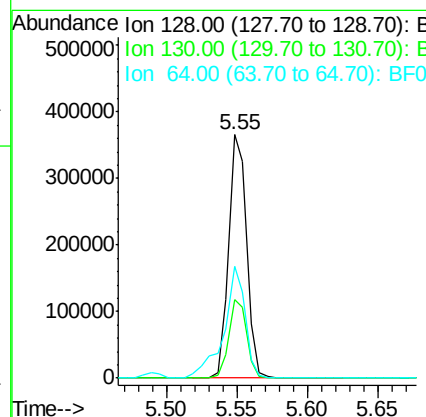
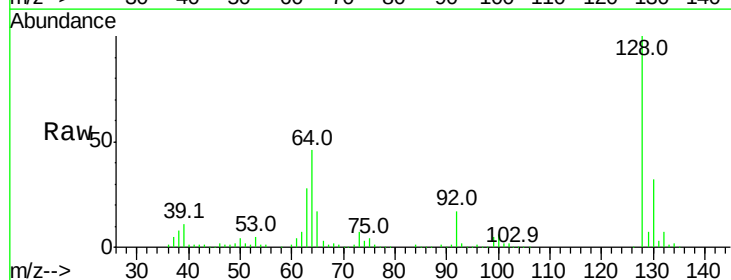
RT: 5.55 min Scan# 614

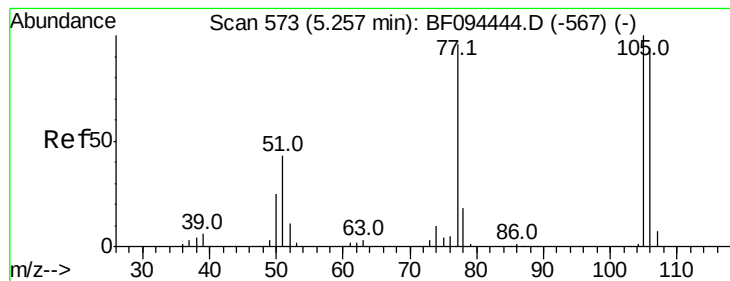
Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	128	Resp:	322769
Ion Ratio	Lower	Upper	
128	100		
130	32.3	12.9	52.9
64	45.9	28.4	68.4





#9

Benzaldehyde

Concen: 13.40 ng

RT: 5.28 min Scan# 569

Delta R.T. 0.03 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

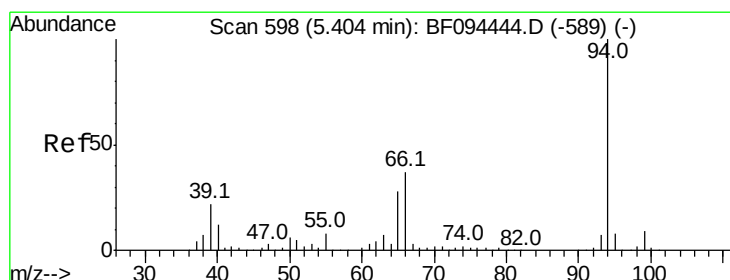
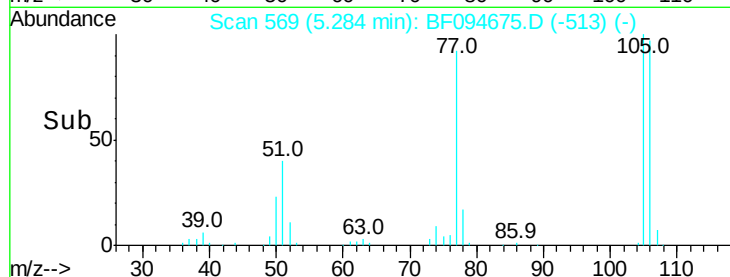
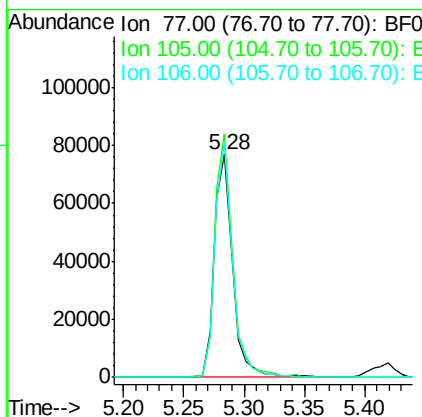
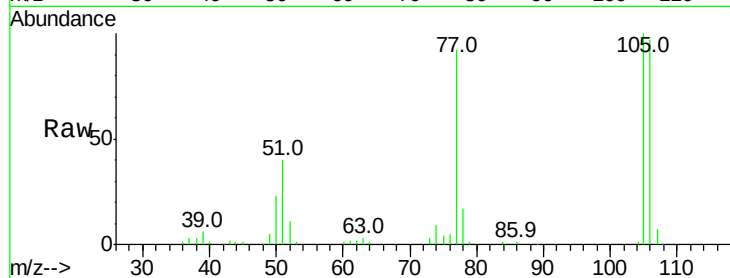
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	77	Resp:	79524
Ion Ratio	Lower	Upper	
77	100		
105	109.2	83.8	123.8
106	105.4	79.1	119.1

Manual Integrations
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#10

Phenol

Concen: 35.71 ng

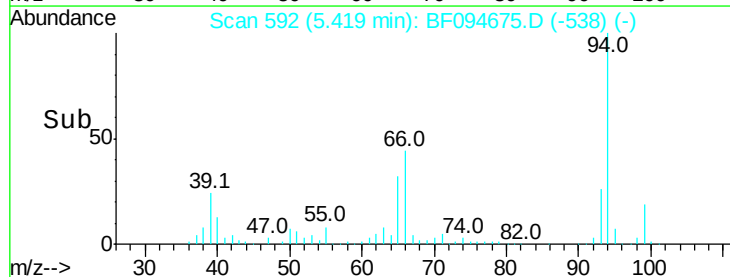
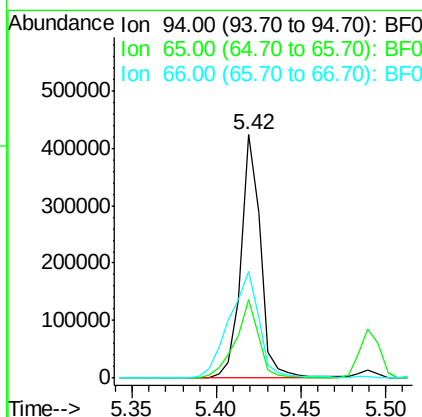
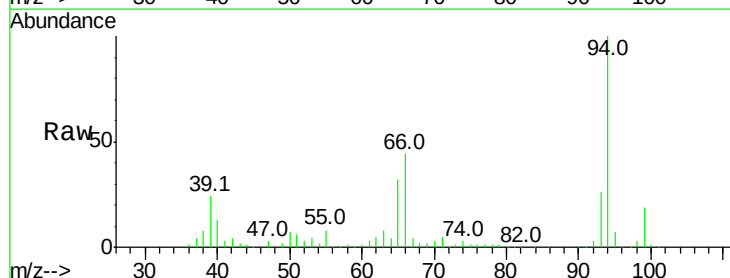
RT: 5.42 min Scan# 592

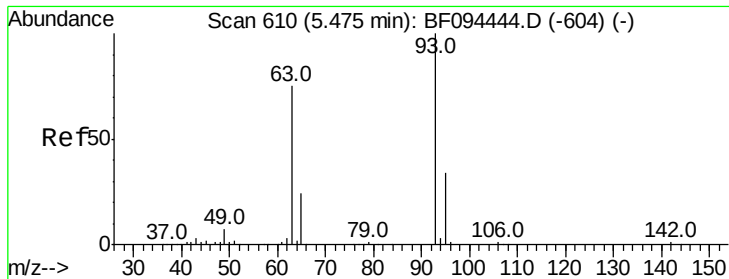
Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	94	Resp:	342363
Ion Ratio	Lower	Upper	
94	100		
65	32.1	9.9	49.9
66	43.7	23.1	63.1





#11
bis(2-Chloroethyl)ether
Concen: 42.78 ng
RT: 5.49 min Scan# 604
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

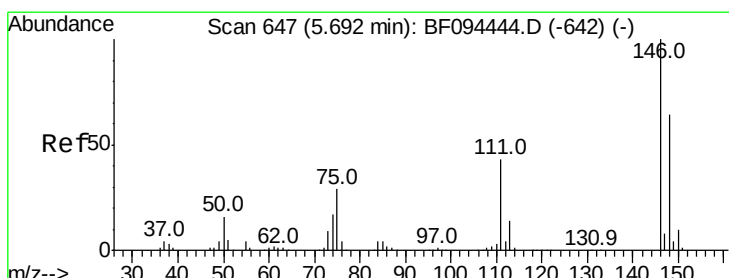
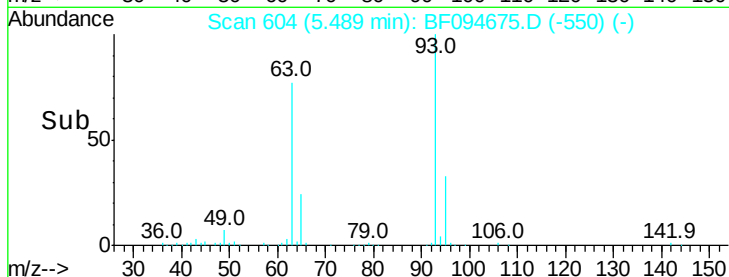
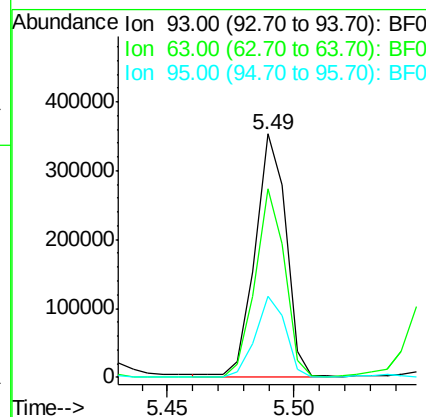
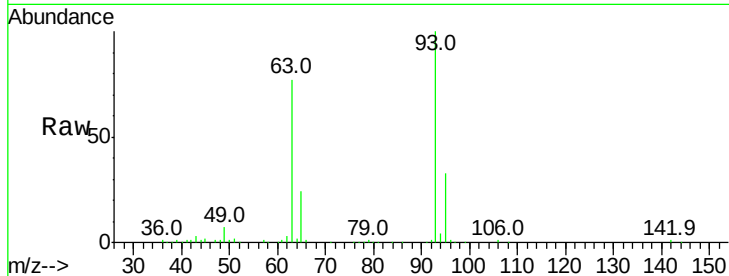
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	93	Resp:	299618
Ion Ratio	Lower	Upper	
93	100		
63	77.5	59.2	99.2
95	33.3	12.8	52.8

Manual Integrations
APPROVED

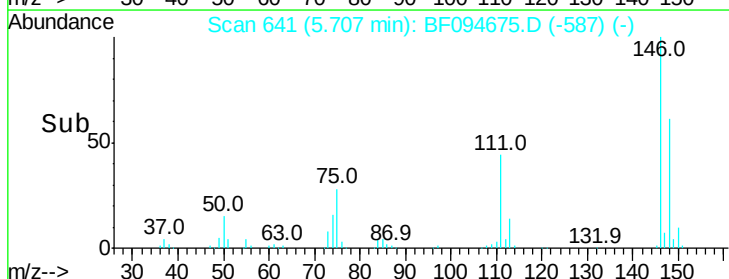
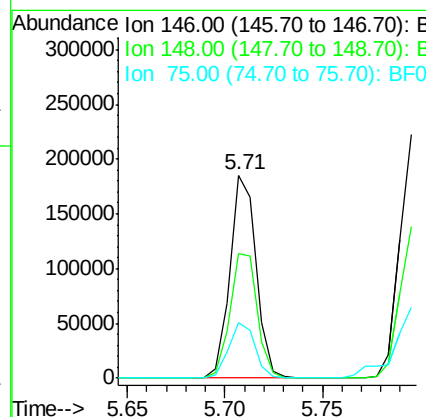
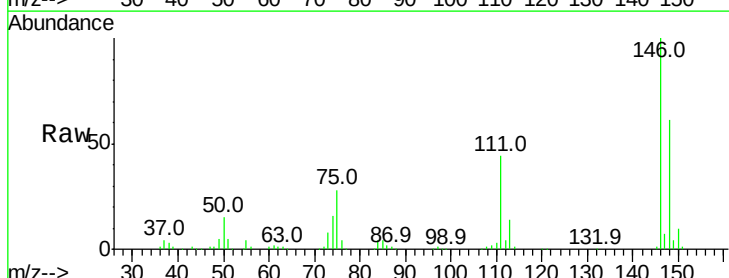
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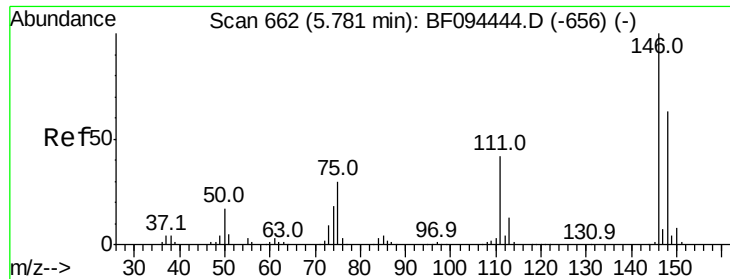
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#12
1,3-Dichlorobenzene
Concen: 20.59 ng
RT: 5.71 min Scan# 641
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion:	146	Resp:	171830
Ion Ratio	Lower	Upper	
146	100		
148	61.4	51.8	77.6
75	27.6	23.1	34.7





#13
 1,4-Dichlorobenzene
 Concen: 21.99 ng
 RT: 5.80 min Scan# 656
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

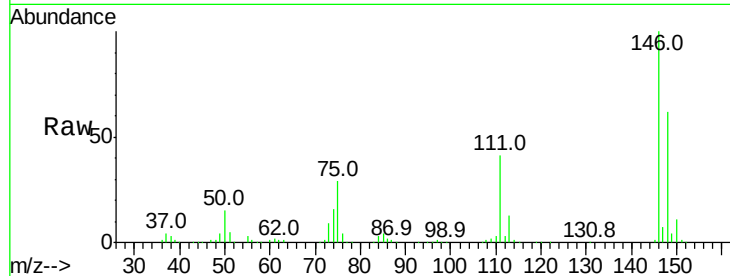
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Lower	Upper
146	100		
148	62.2	52.2	78.2
111	40.6	30.3	45.5

Manual Integrations
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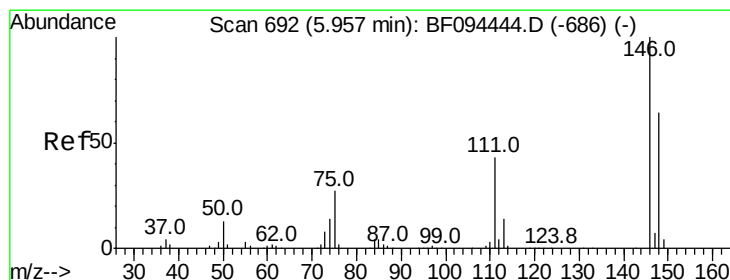
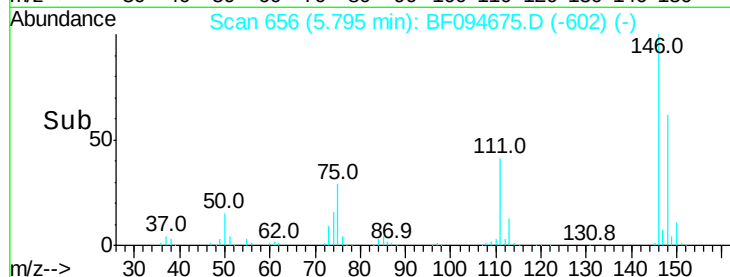
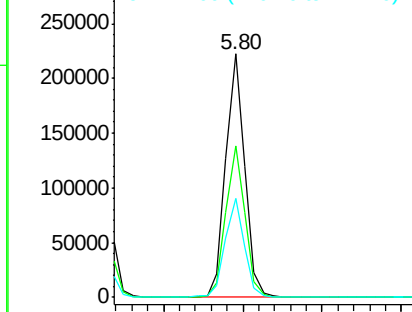


Abundance

Ion 146.00 (145.70 to 146.70): E

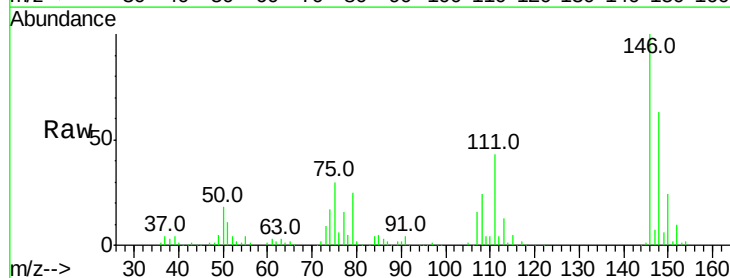
Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14
 1,2-Dichlorobenzene
 Concen: 23.21 ng
 RT: 5.97 min Scan# 685
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
111	43.0	38.2	57.4

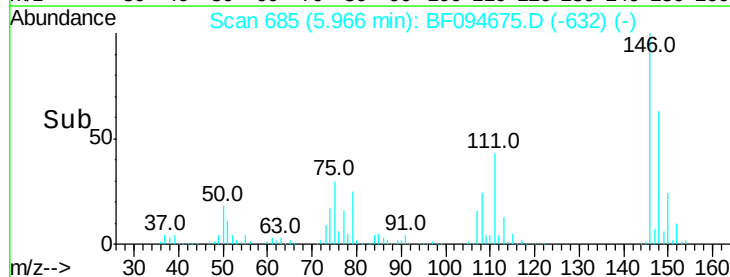
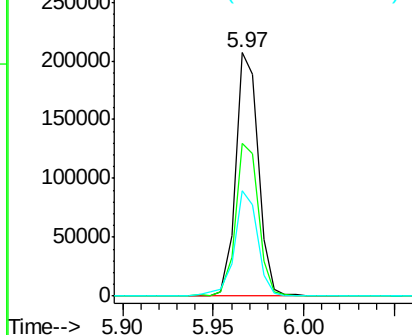


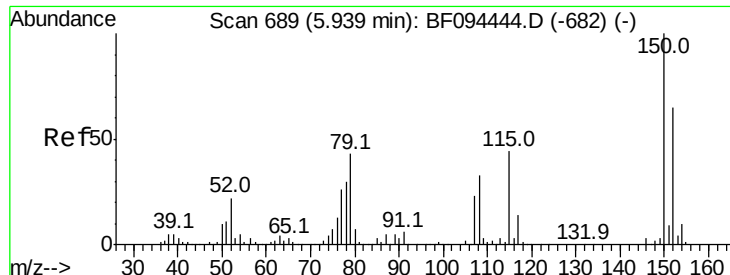
Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15
Benzyl Alcohol
Concen: 44.28 ng
RT: 5.95 min Scan# 683
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

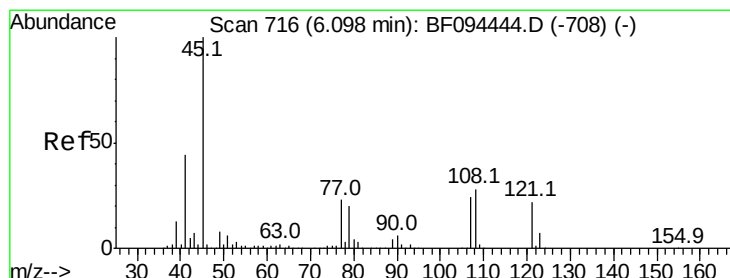
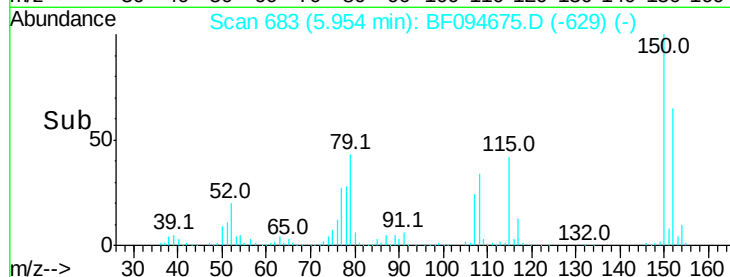
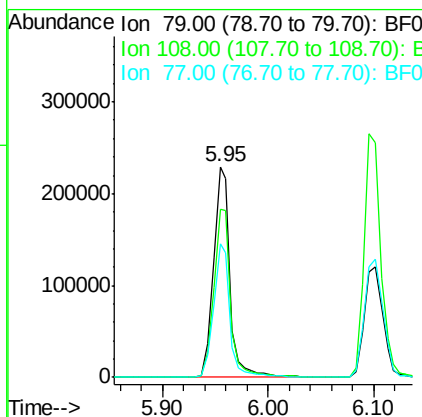
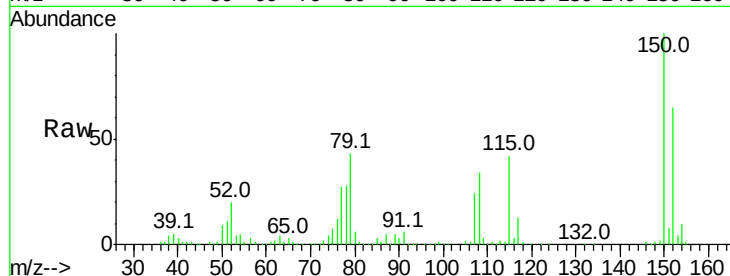
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	79	Resp:	256290
Ion Ratio	Lower	Upper	
79	100		
108	79.9	63.4	95.0
77	63.5	49.2	73.8

Manual Integrations
APPROVED

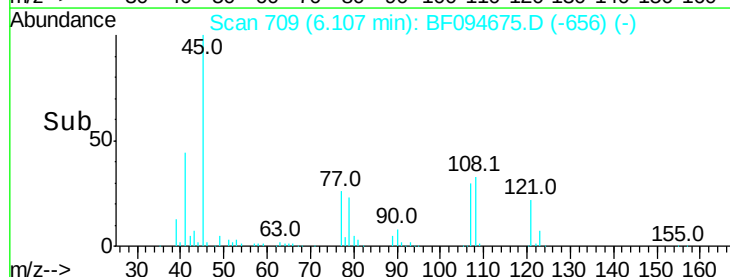
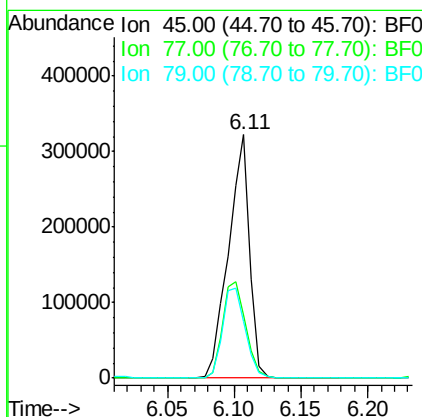
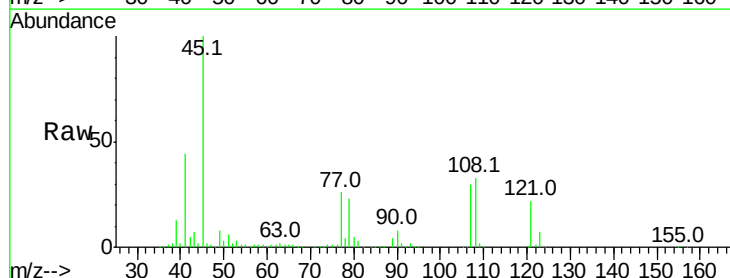
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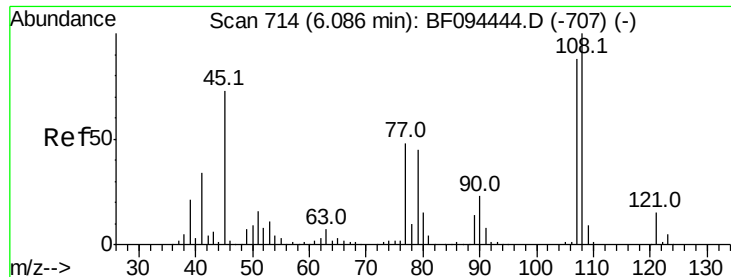
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#16
2,2'-oxybis(1-chloropropane)
Concen: 39.12 ng
RT: 6.11 min Scan# 709
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion:	45	Resp:	359164
Ion Ratio	Lower	Upper	
45	100		
77	25.8	0.0	33.2
79	23.4	0.0	30.0





#17
2-Methylphenol
Concen: 43.16 ng
RT: 6.10 min Scan# 707
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

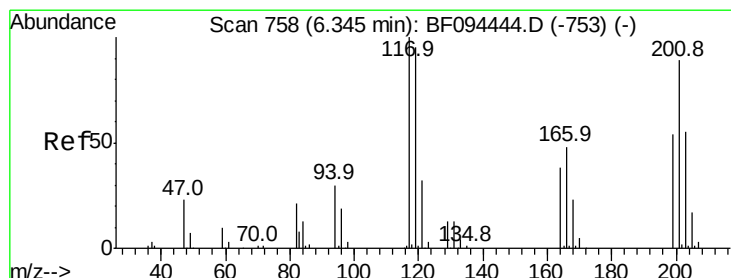
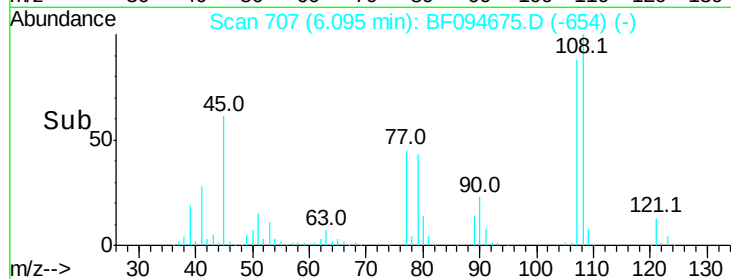
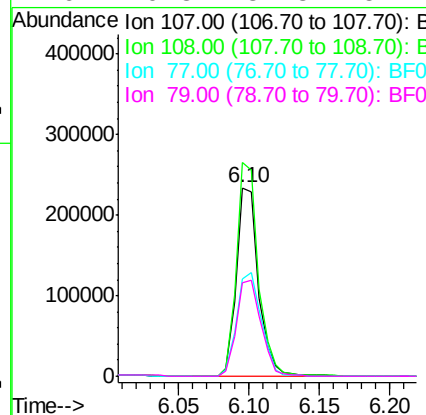
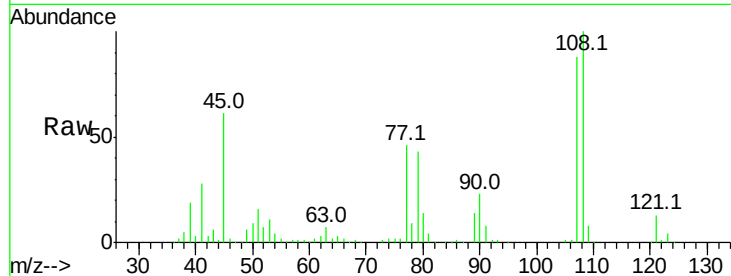
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	113.4	93.4	140.0	
77	51.7	35.8	53.6	
79	49.3	34.8	52.2	

Manual Integrations
APPROVED

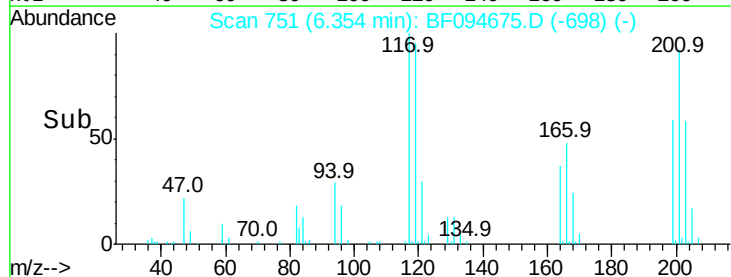
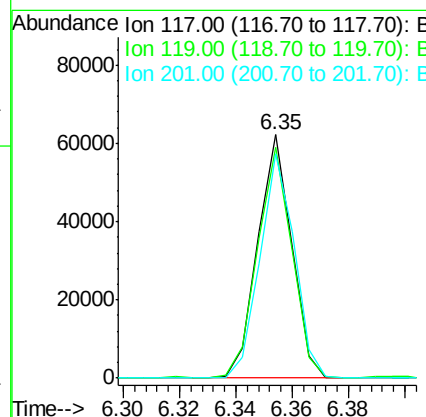
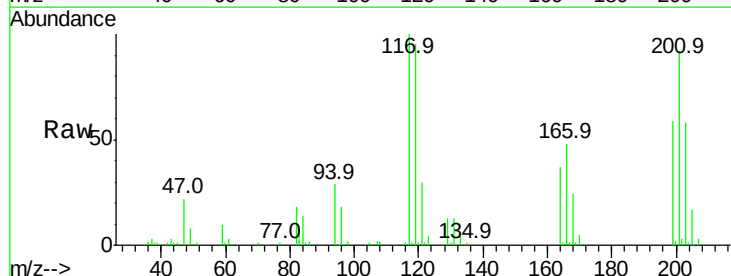
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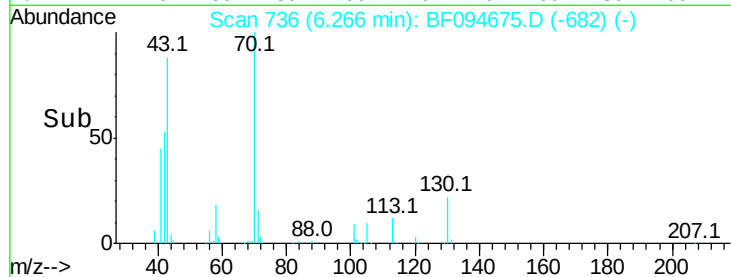
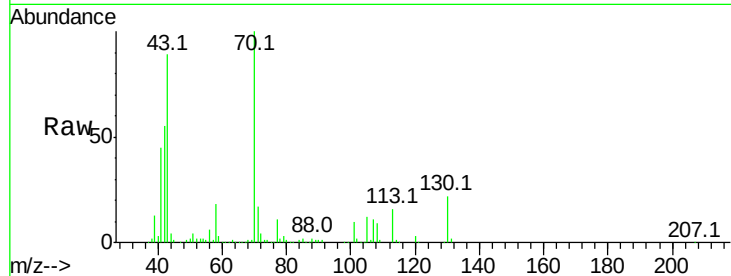
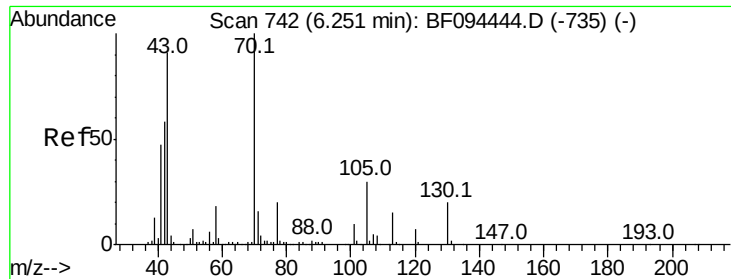
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#18
Hexachloroethane
Concen: 18.04 ng
RT: 6.35 min Scan# 751
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	95.0	77.4	116.0	
201	92.2	94.6	141.8#	





#19
n-Nitroso-di-n-propylamine
Concen: 44.49 ng
RT: 6.27 min Scan# 736
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

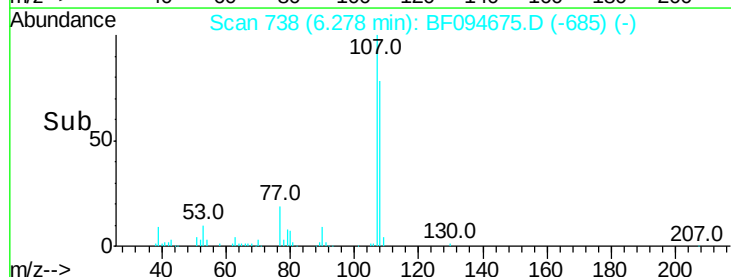
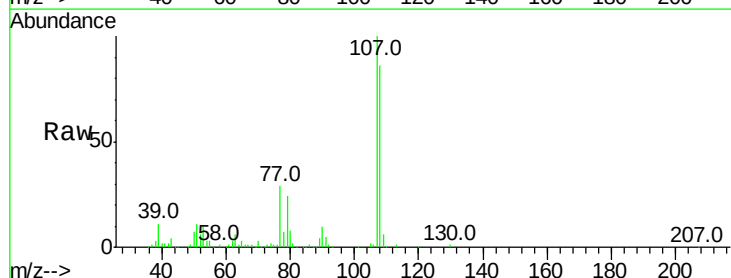
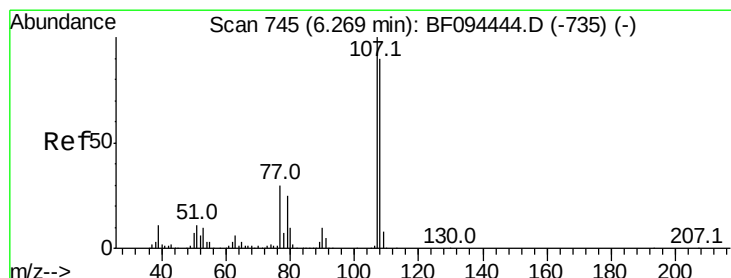
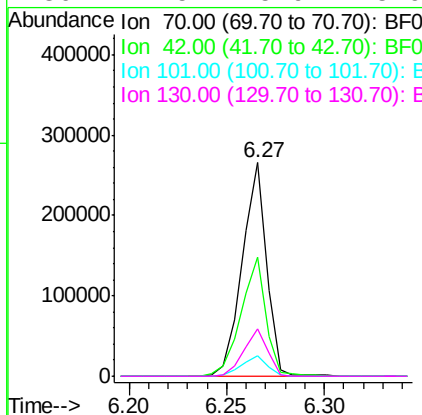
Tot Ion	Ratio	Lower	Upper
70	100		
42	55.5	47.2	70.8
101	9.9	7.2	10.8
130	22.5	15.9	23.9

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Manual Integrations
APPROVED

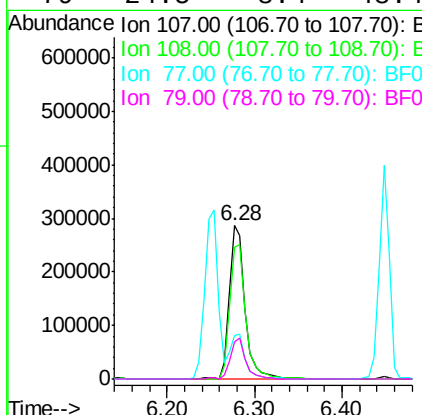
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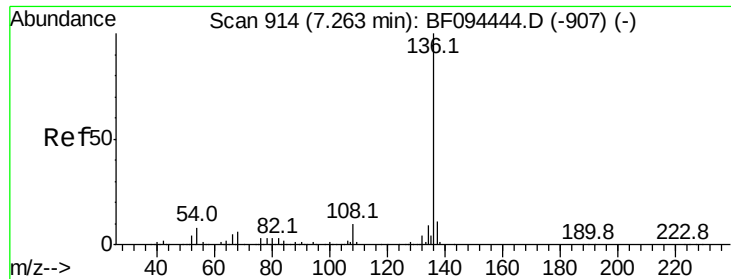
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#20
3+4-Methylphenols
Concen: 43.87 ng
RT: 6.28 min Scan# 738
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Lower	Upper
107	100		
108	86.3	71.0	111.0
77	28.5	90.5	130.5#
79	24.5	8.4	48.4





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.27 min Scan# 906

Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

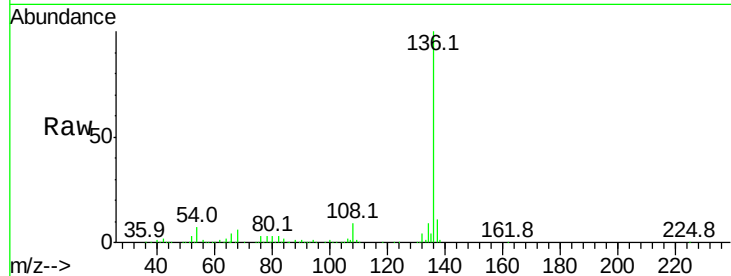
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.9	8.5	12.7	
54	6.8	4.9	7.3	
68	5.6	4.1	6.1	

Manual Integrations
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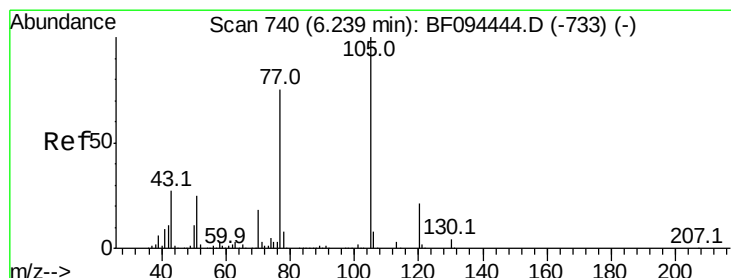
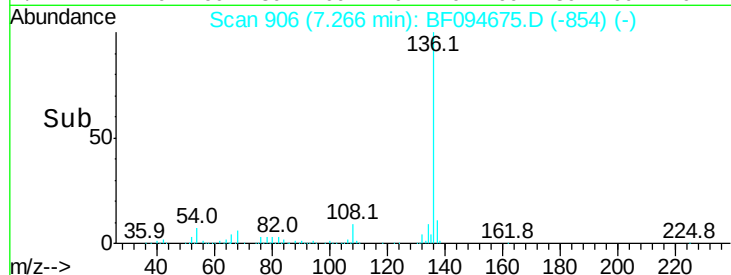
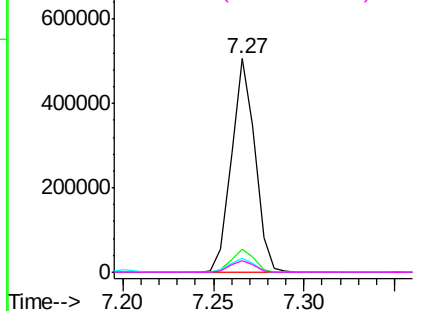
Abundance

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): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 41.91 ng

RT: 6.25 min Scan# 734

Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
71	2.7	2.8	4.2#	
51	22.6	30.7	46.1#	
120	22.0	17.4	26.0	

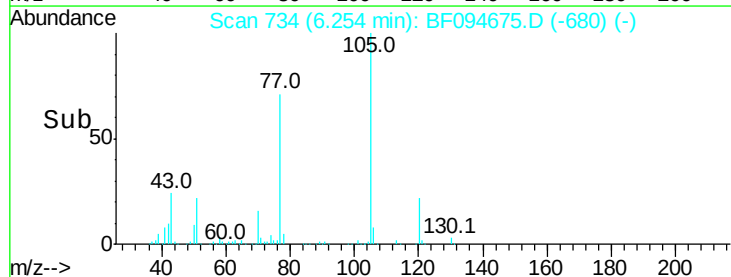
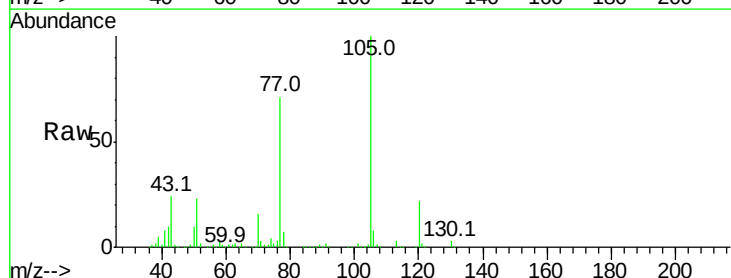
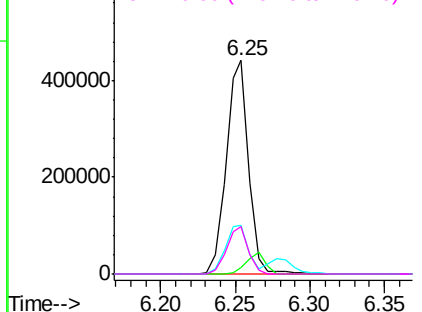
Abundance

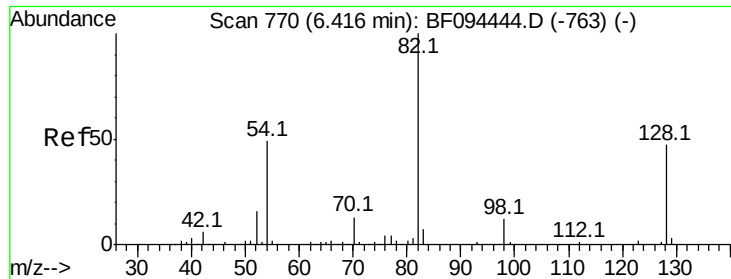
Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E





#23
 Nitrobenzene-d5
 Concen: 88.96 ng
 RT: 6.43 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

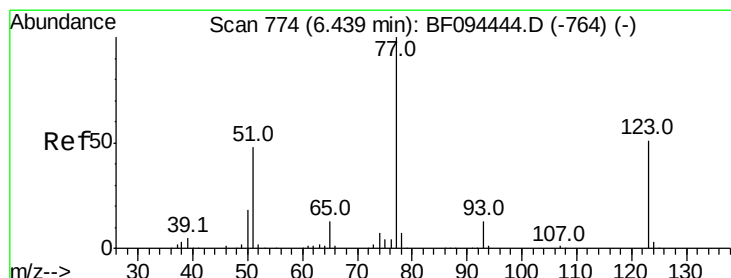
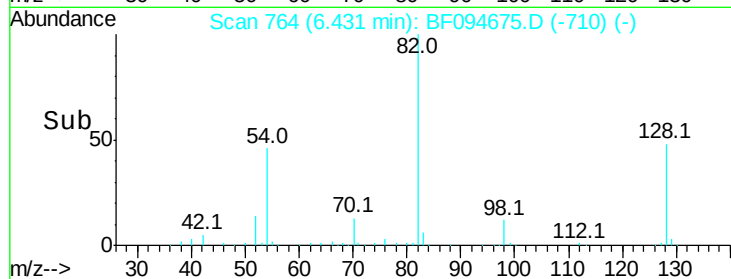
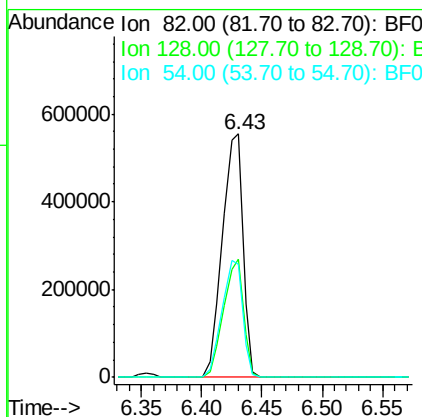
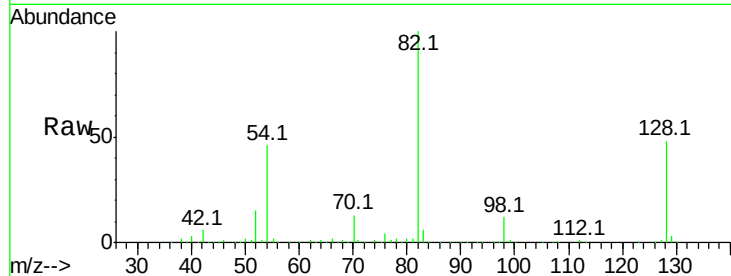
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.3	34.0	51.0	
54	46.2	42.2	63.2	

Manual Integrations
 APPROVED

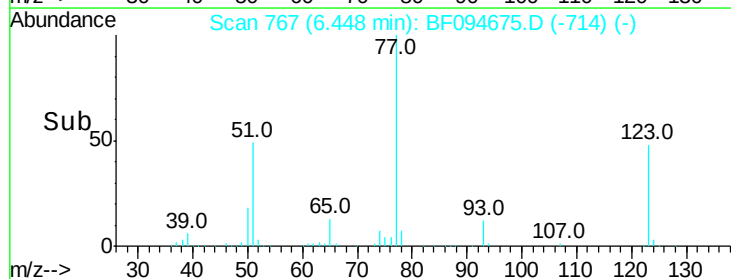
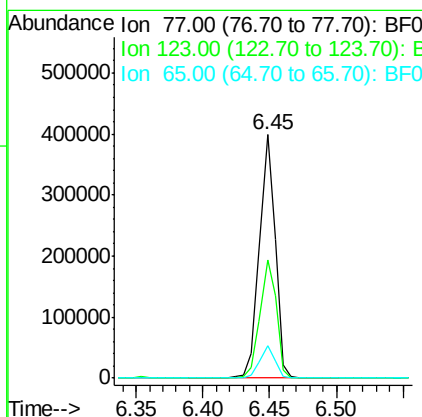
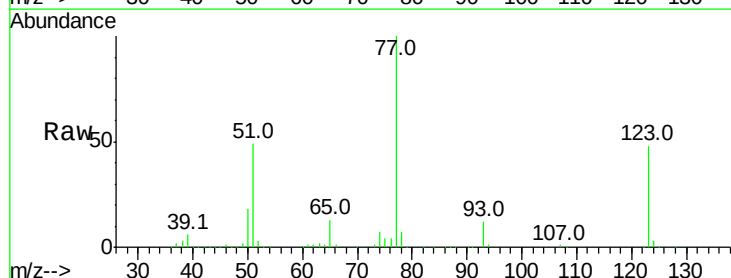
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 4/28/2017 3:00:49 PM

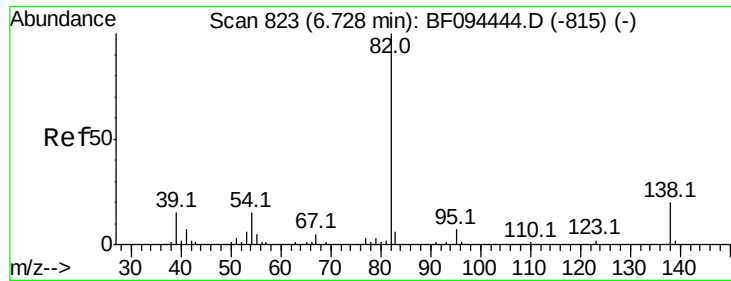
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#24
 Nitrobenzene
 Concen: 41.19 ng
 RT: 6.45 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
77	100			
123	48.3	35.8	53.8	
65	13.4	10.6	15.8	





#25

Isophorone

Concen: 43.82 ng

RT: 6.74 min Scan# 816

Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

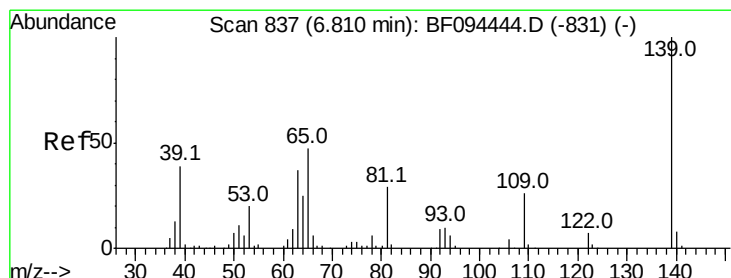
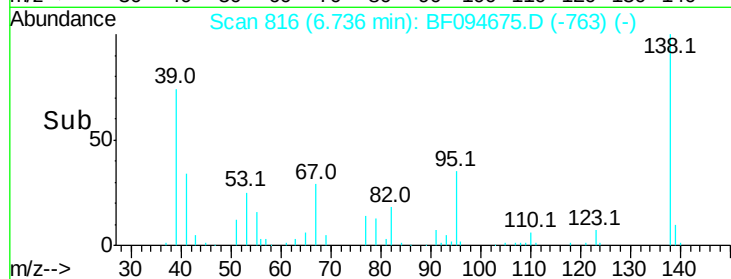
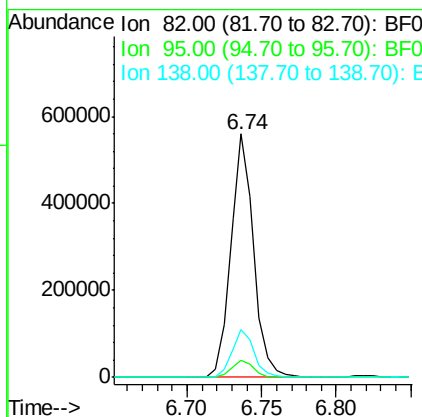
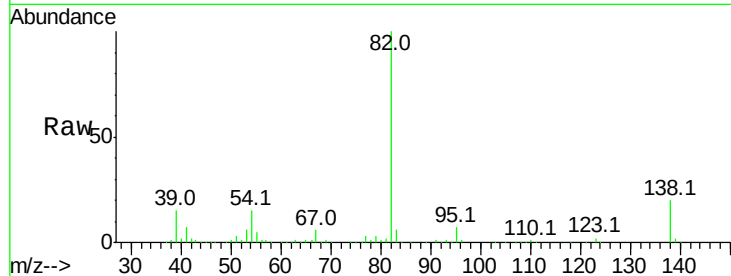
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	82	Resp:	599523
Ion Ratio	Lower	Upper	
82	100		
95	6.9	5.3	7.9
138	19.6	13.1	19.7

Manual Integrations
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#26

2-Nitrophenol

Concen: 43.08 ng

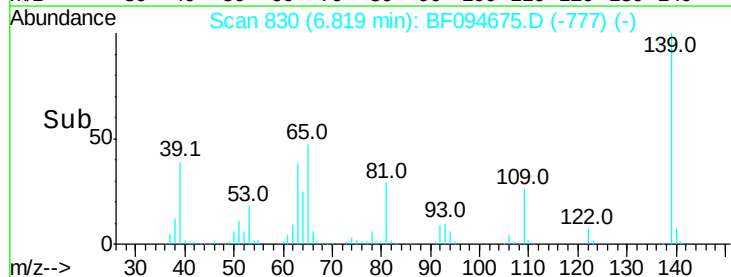
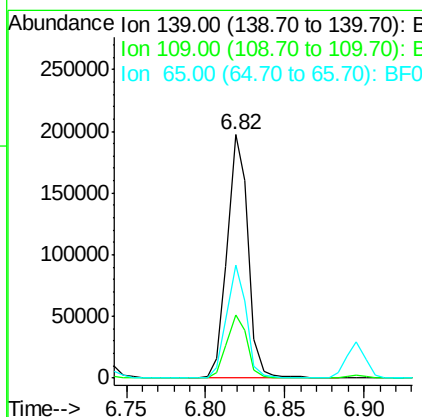
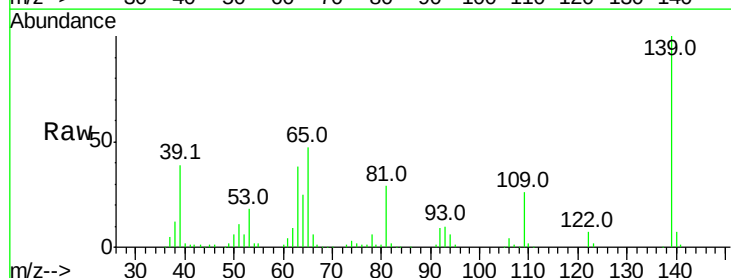
RT: 6.82 min Scan# 830

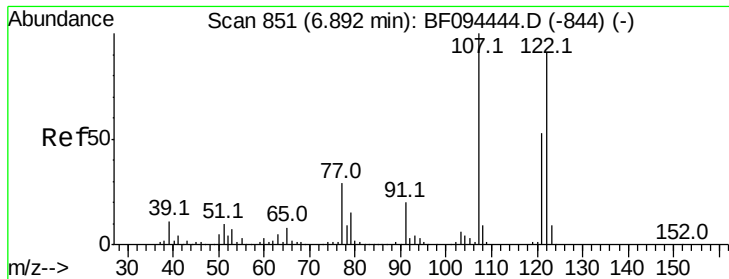
Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	139	Resp:	179885
Ion Ratio	Lower	Upper	
139	100		
109	26.2	21.0	31.6
65	46.7	33.0	49.6





#27
2,4-Dimethylphenol
Concen: 43.84 ng
RT: 6.90 min Scan# 843
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

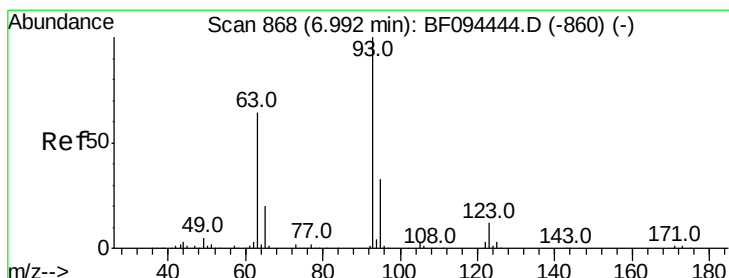
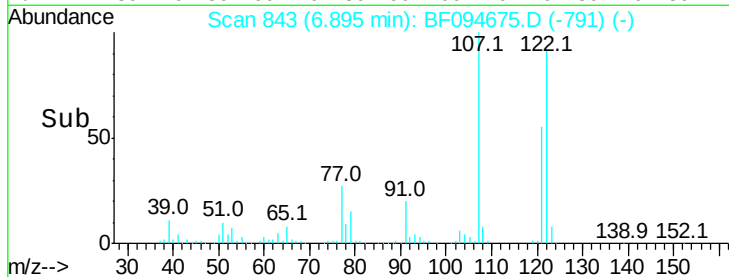
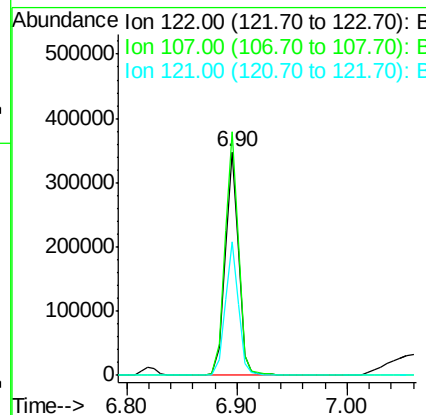
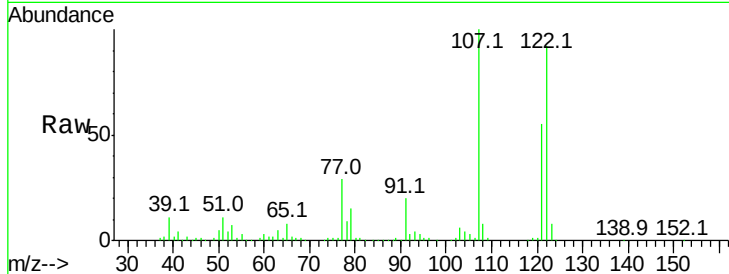
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Lower	Upper
122	100		
107	109.1	89.2	133.8
121	59.7	45.2	67.8

Manual Integrations
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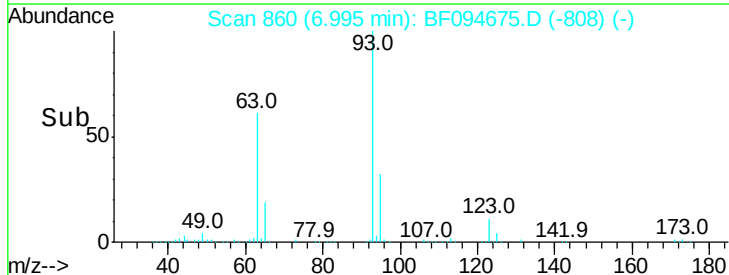
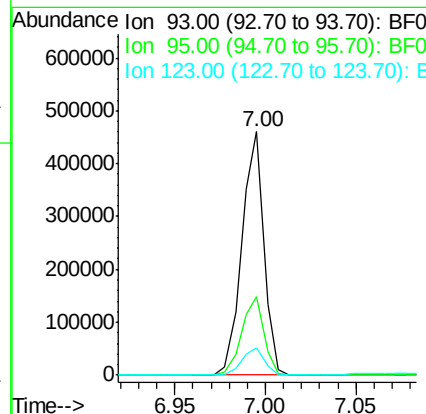
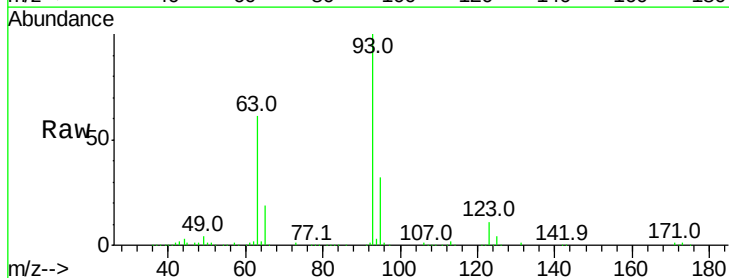
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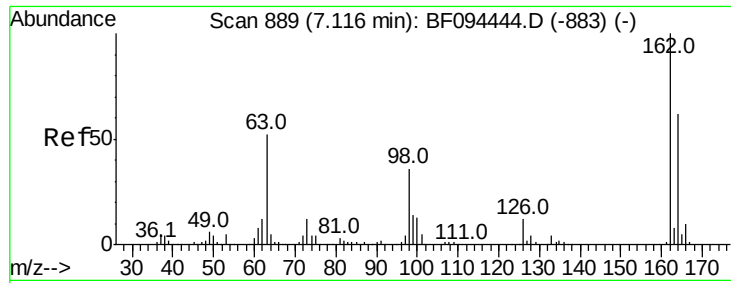
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#28
bis(2-Chloroethoxy)methane
Concen: 43.76 ng
RT: 7.00 min Scan# 860
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.5	39.7
123	11.1	9.0	13.4





#29
 2,4-Dichlorophenol
 Concen: 45.01 ng
 RT: 7.12 min Scan# 882
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

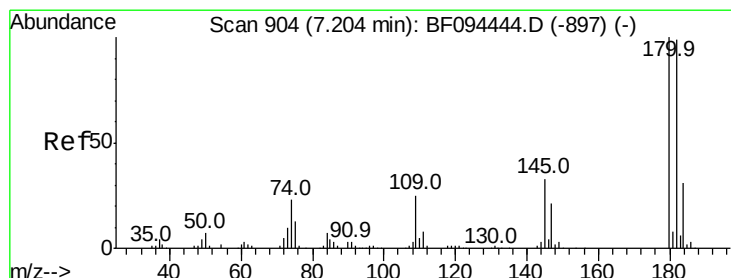
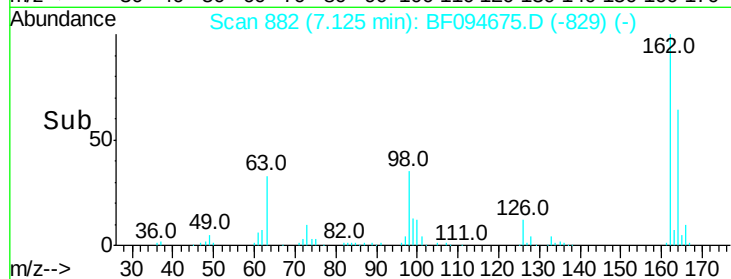
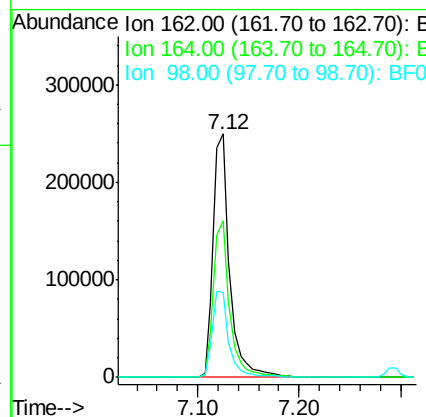
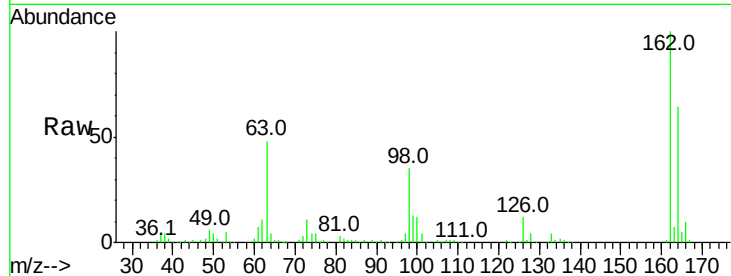
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	162	Resp:	284006
Ion Ratio	Lower	Upper	
162	100		
164	64.5	44.6	84.6
98	34.7	14.8	54.8

Manual Integrations
 APPROVED

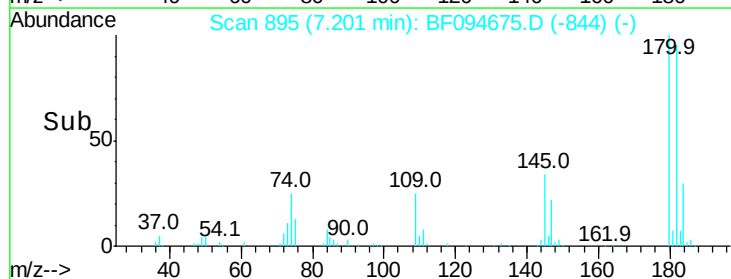
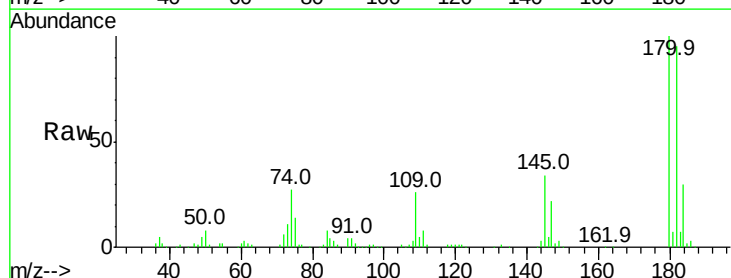
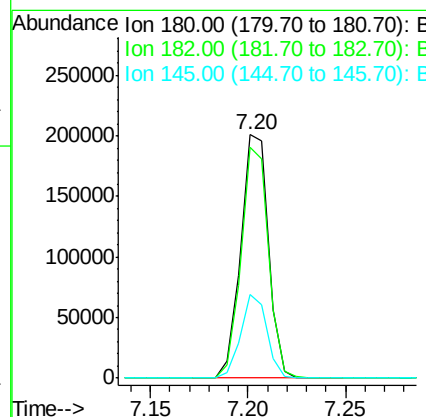
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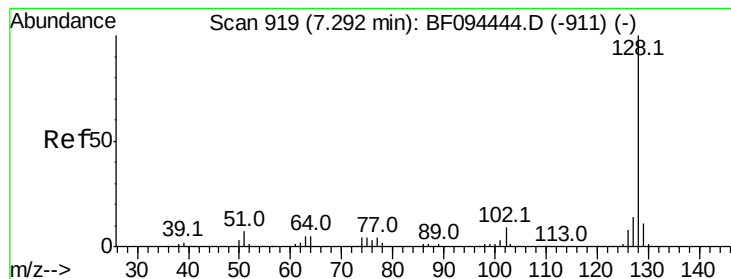
4/28/2017 3:00:49 PM



#30
 1,2,4-Trichlorobenzene
 Concen: 30.30 ng
 RT: 7.20 min Scan# 895
 Delta R.T. -0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion:	180	Resp:	197661
Ion Ratio	Lower	Upper	
180	100		
182	94.7	75.8	113.6
145	34.4	25.3	37.9





#31

Naphthalene

Concen: 33.20 ng

RT: 7.30 min Scan# 911

Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

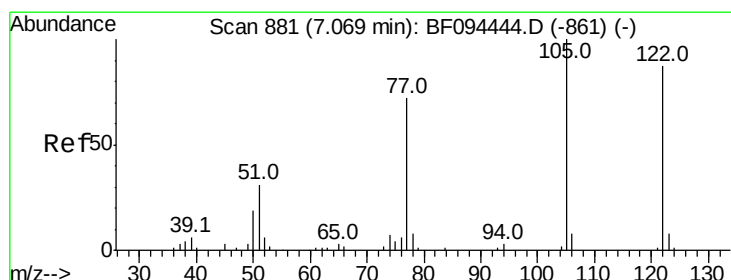
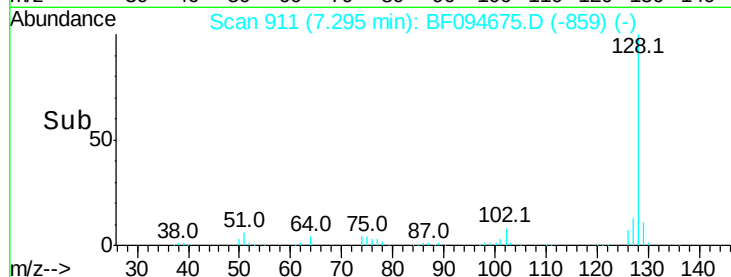
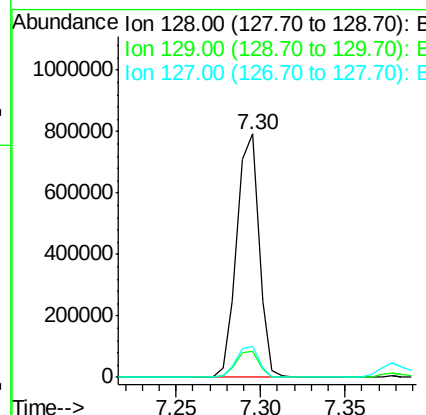
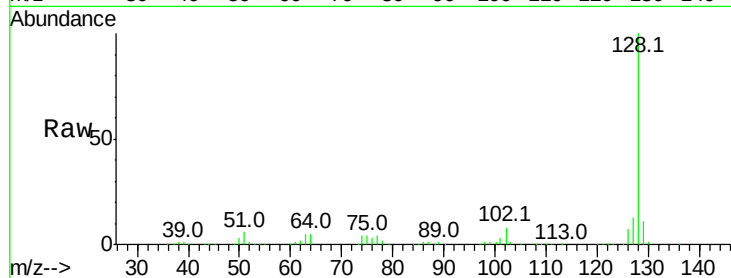
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	128	Resp	727465
Ion Ratio	Lower	Upper	
128	100		
129	10.8	9.0	13.6
127	13.0	10.8	16.2

Manual Integrations
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#32

Benzoic acid

Concen: 48.95 ng

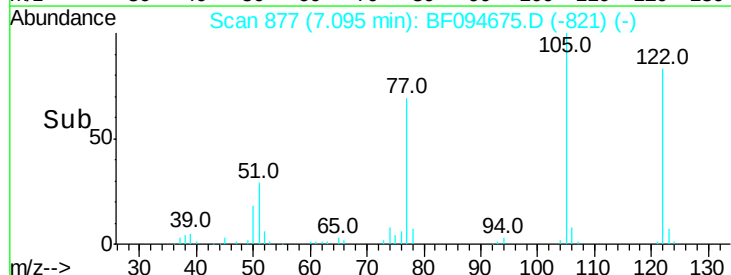
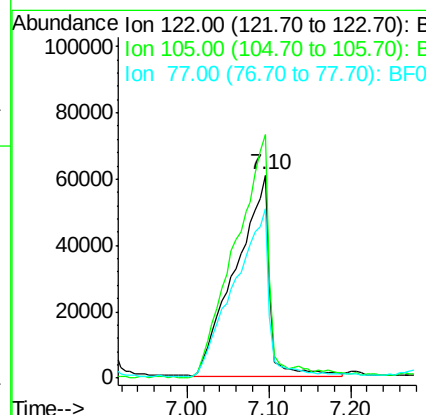
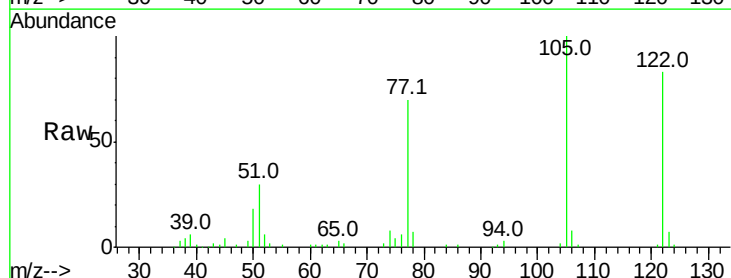
RT: 7.10 min Scan# 877

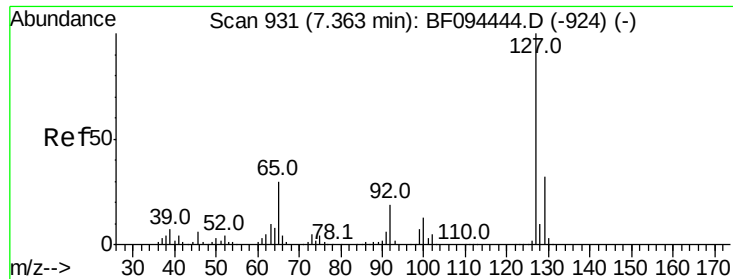
Delta R.T. 0.03 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion	122	Resp	175577
Ion Ratio	Lower	Upper	
122	100		
105	120.0	103.3	143.3
77	83.7	73.7	113.7





#33

4-Chloroaniline

Concen: 8.08 ng

RT: 7.38 min Scan# 925

Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

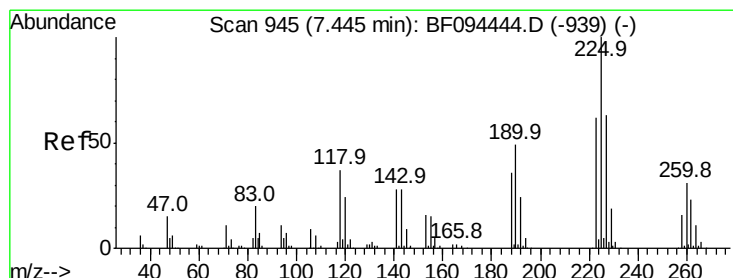
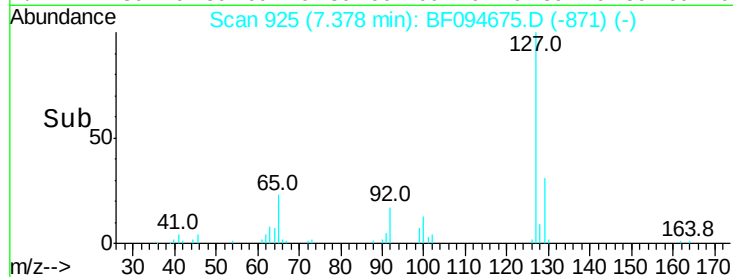
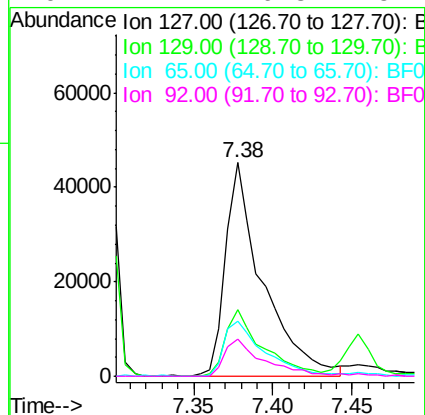
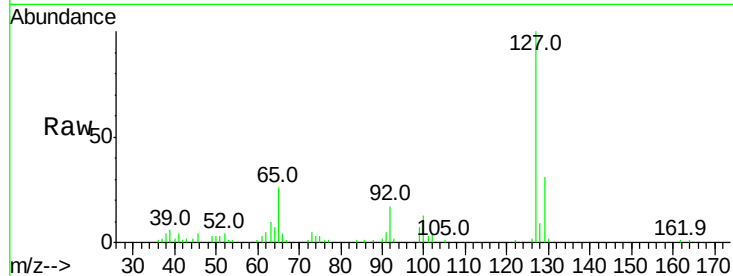
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100				
129	31.3	26.2	39.2		
65	25.8	27.8	41.8		
92	17.4	16.8	25.2		

Manual Integrations
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#34

Hexachlorobutadiene

Concen: 25.09 ng

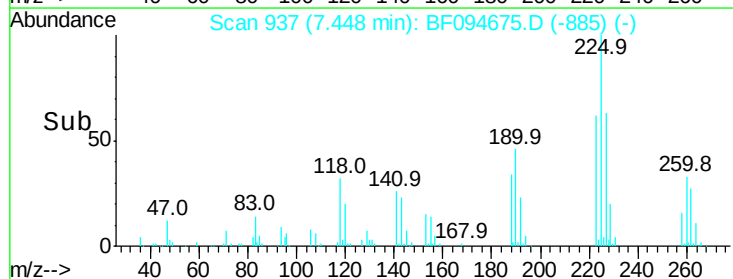
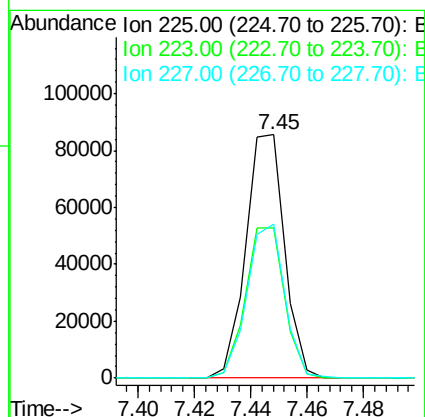
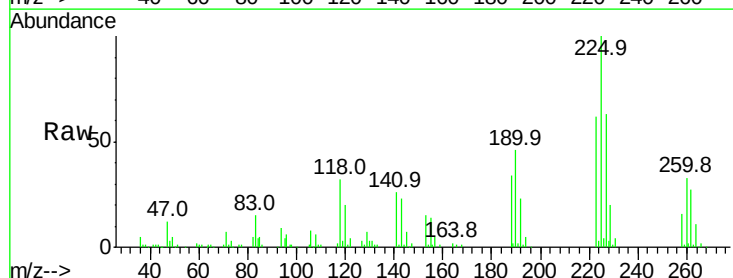
RT: 7.45 min Scan# 937

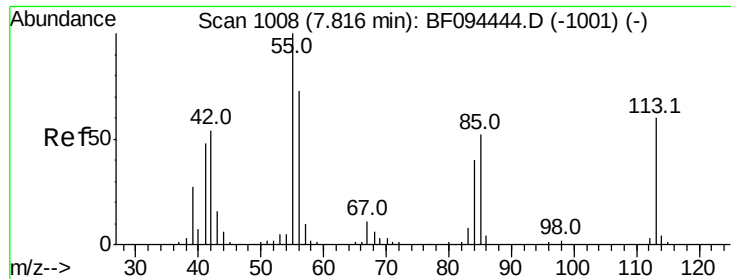
Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100				
223	61.8	48.8	73.2		
227	63.5	51.1	76.7		





#35

Caprolactam

Concen: 34.33 ng/ml

RT: 7.85 min Scan# 1005

Delta R.T. 0.03 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

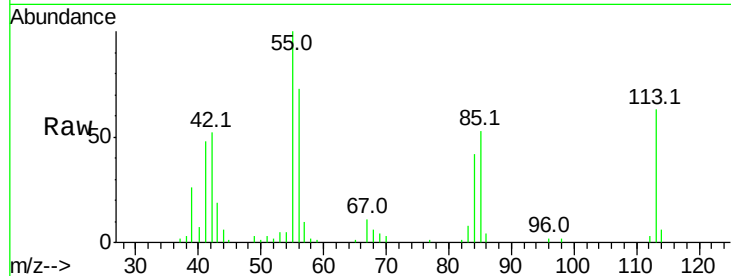
Tot Ion:	113	Resp:	68050
Ion Ratio	Lower	Upper	
113	100		
55	159.0	150.2	190.2
56	116.1	107.8	147.8

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Manual Integrations
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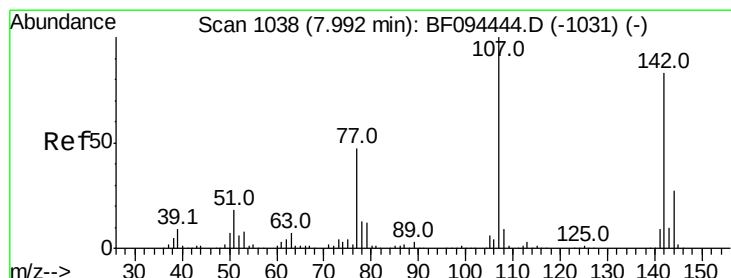
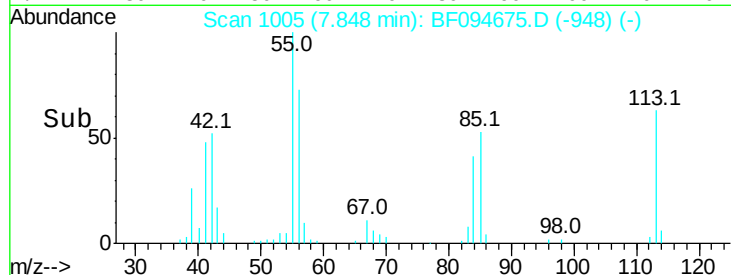
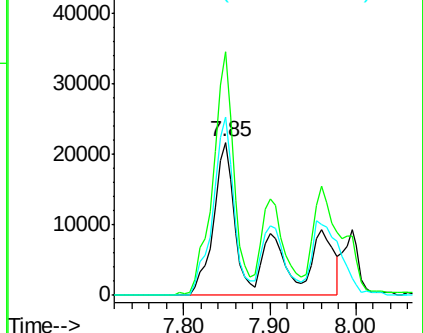
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Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#36

4-Chloro-3-methylphenol

Concen: 45.72 ng/ml

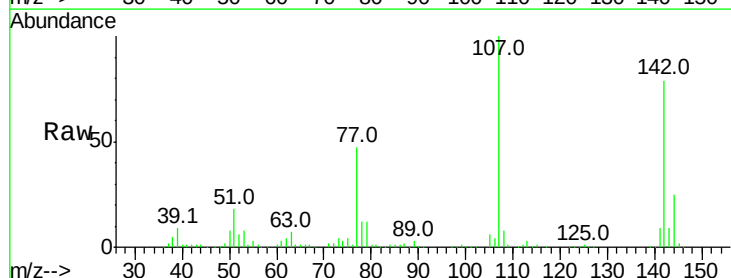
RT: 8.00 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

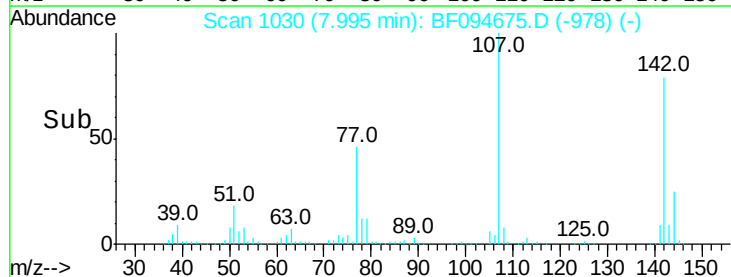
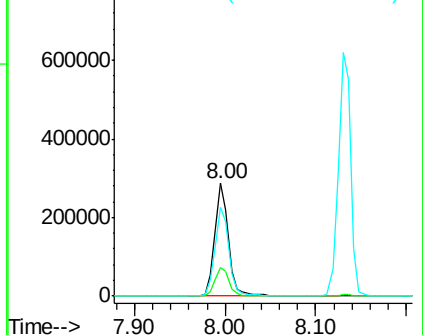
Tgt Ion:	107	Resp:	302329
Ion Ratio	Lower	Upper	
107	100		
144	25.5	24.2	36.4
142	78.7	73.4	110.0

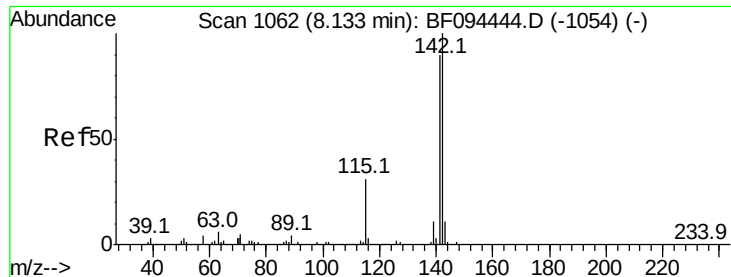


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 40.04 ng

RT: 8.13 min Scan# 1053

Delta R.T. -0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

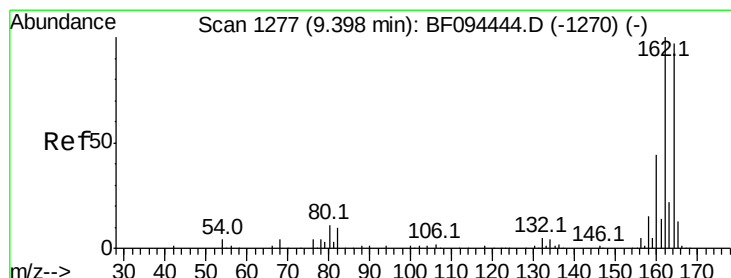
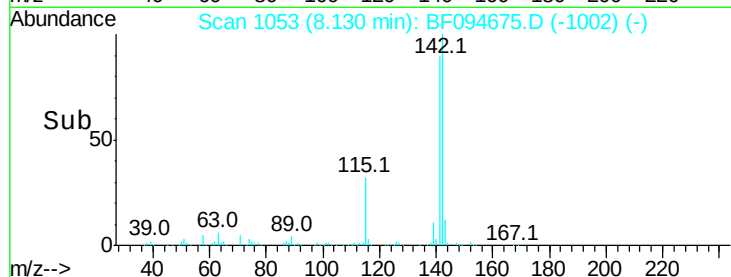
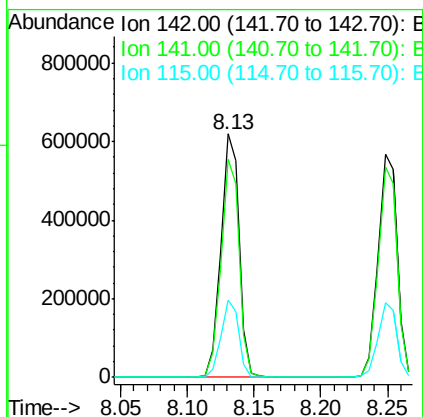
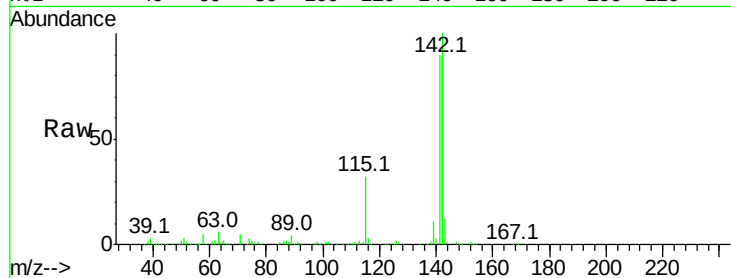
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	142	Resp:	600222
Ion Ratio	Lower	Upper	
142	100		
141	89.8	71.3	106.9
115	31.6	27.1	40.7

Manual Integrations
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#38

Acenaphthene-d10

Concen: 20.00 ng

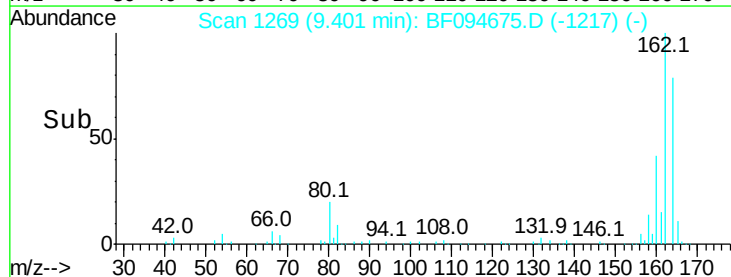
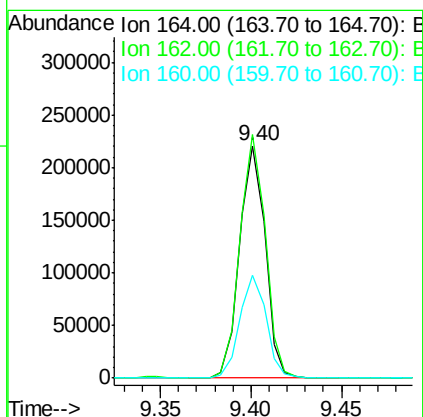
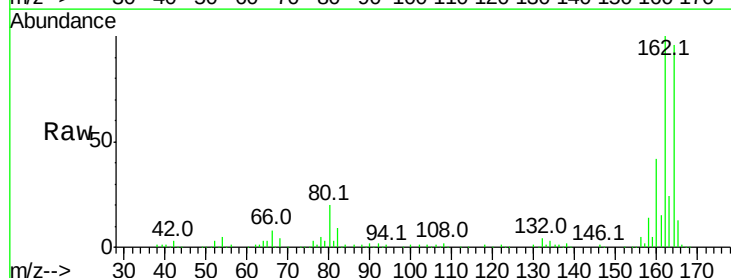
RT: 9.40 min Scan# 1269

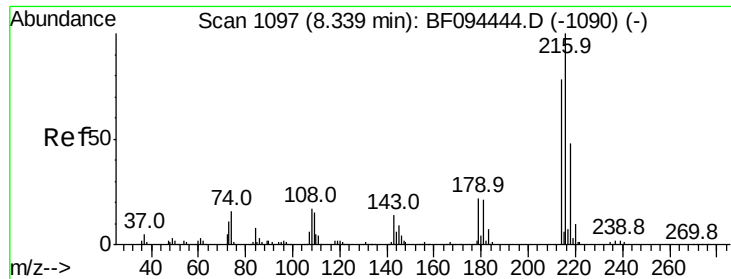
Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	164	Resp:	216630
Ion Ratio	Lower	Upper	
164	100		
162	104.7	82.6	123.8
160	44.5	36.2	54.2





#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 39.61 ng
 RT: 8.34 min Scan# 1089
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

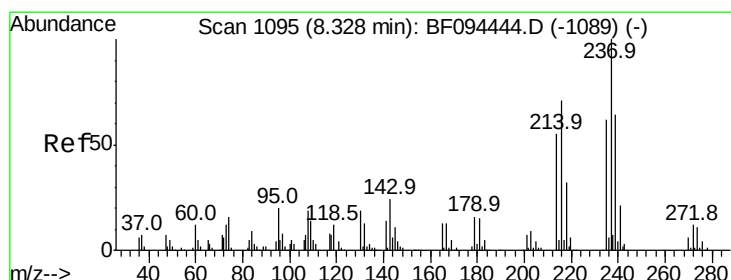
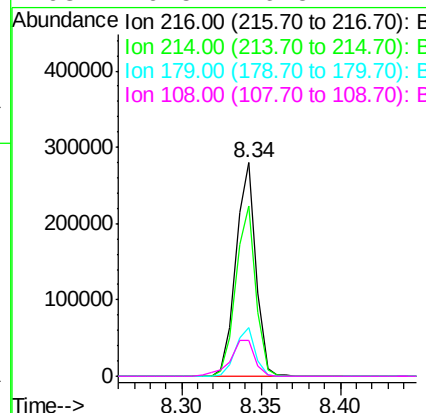
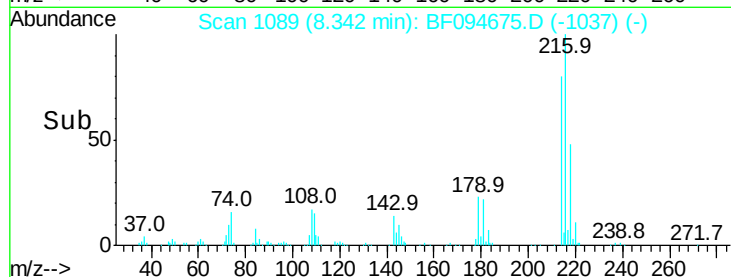
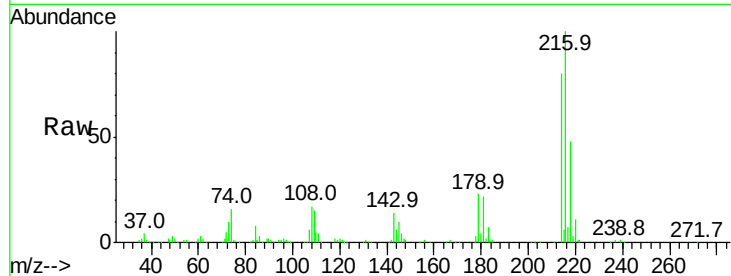
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
216	100	244316		
214	79.4	63.4	95.2	
179	22.4	17.9	26.9	
108	20.5	16.5	24.7	

Manual Integrations
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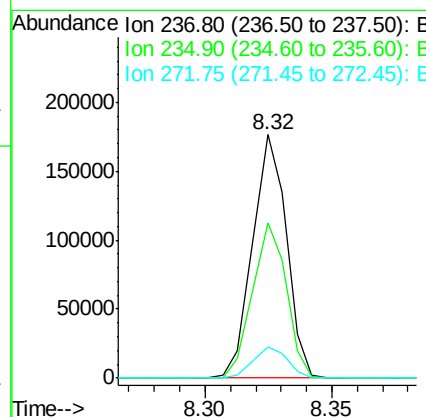
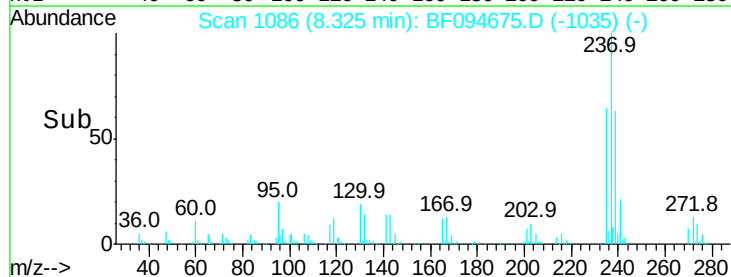
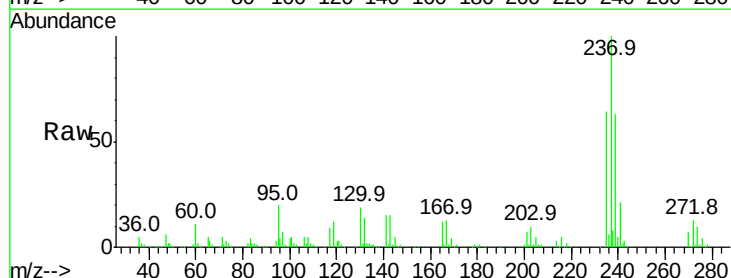
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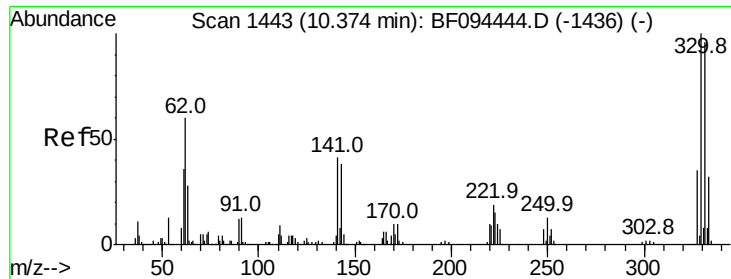
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#40
 Hexachlorocyclopentadiene
 Concen: 65.73 ng
 RT: 8.32 min Scan# 1086
 Delta R.T. -0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
237	100	164021		
235	63.7	42.6	82.6	
272	12.8	0.0	31.9	





#41
 2,4,6-Tribromophenol
 Concen: 141.13 ng
 RT: 10.38 min Scan# 1436
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

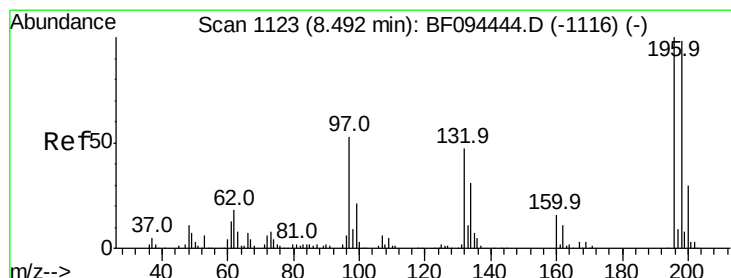
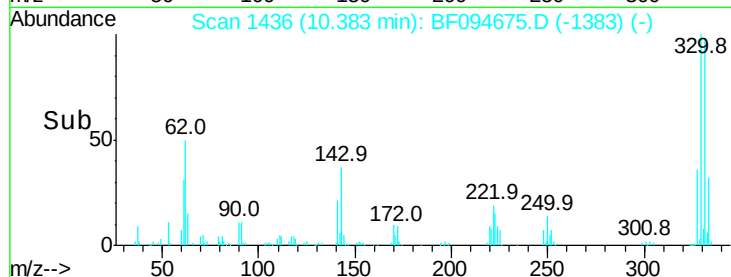
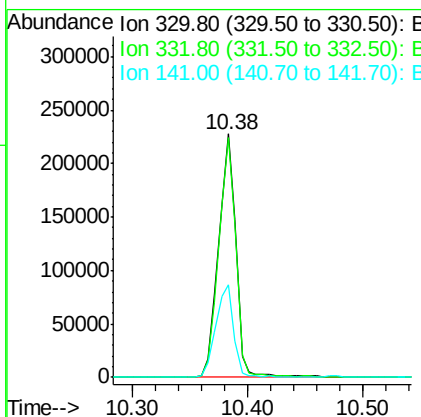
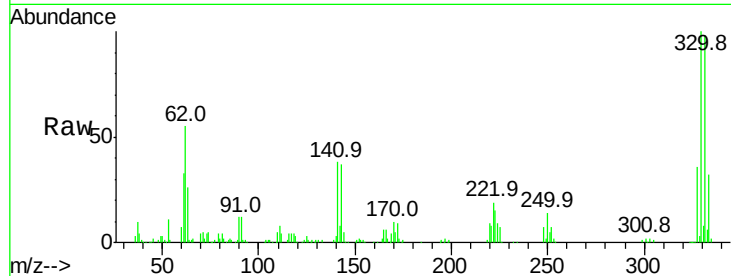
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
330	100	239144		
332	97.2	76.6	115.0	
141	39.3	31.4	47.2	

Manual Integrations
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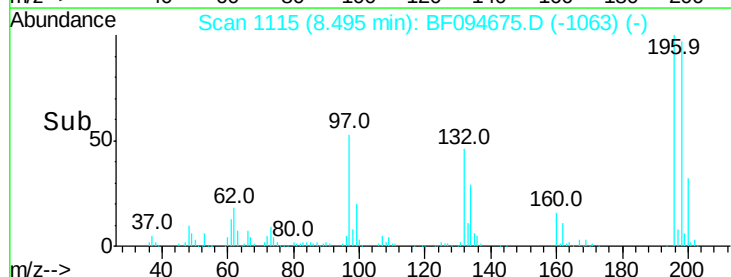
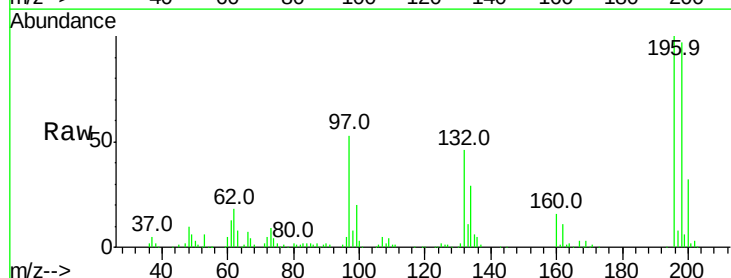
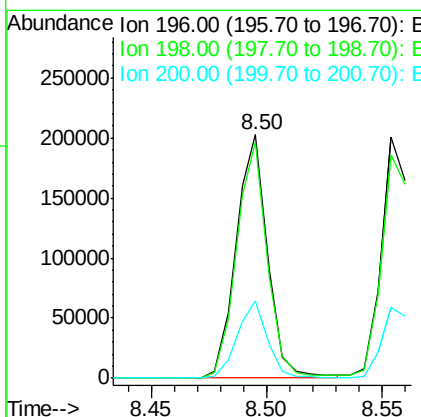
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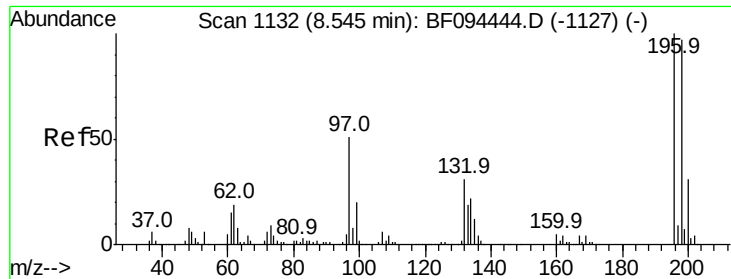
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#42
 2,4,6-Trichlorophenol
 Concen: 44.39 ng
 RT: 8.50 min Scan# 1115
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	192317		
198	96.9	74.2	111.4	
200	31.7	24.0	36.0	





#43
 2,4,5-Trichlorophenol
 Concen: 45.47 ng
 RT: 8.55 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

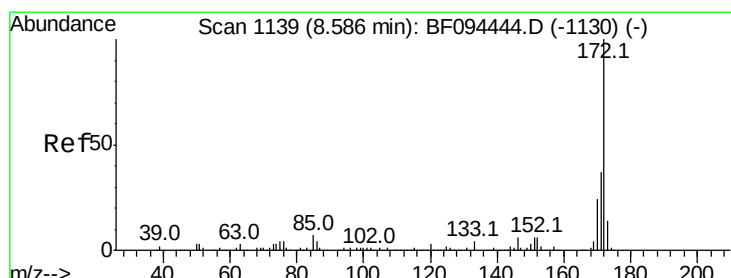
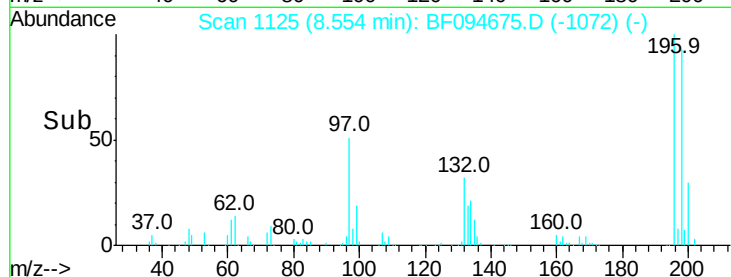
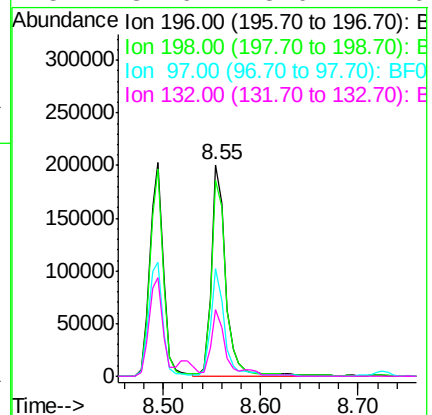
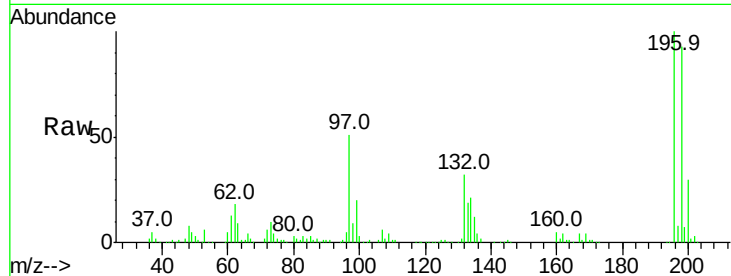
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
196	100	202285		
198	92.7		75.7	113.5
97	51.0		47.7	71.5
132	31.6		28.0	42.0

Manual Integrations
 APPROVED

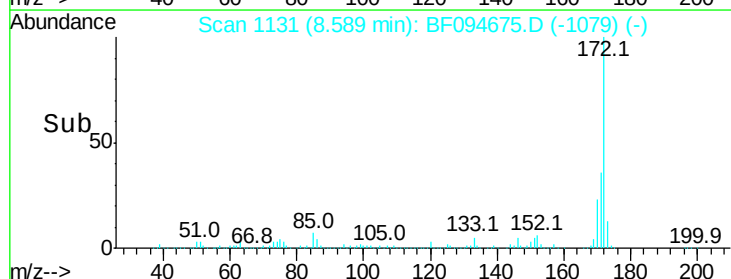
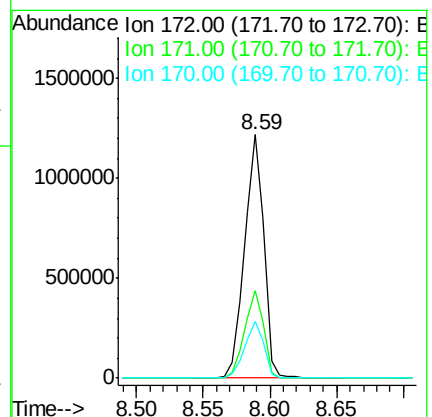
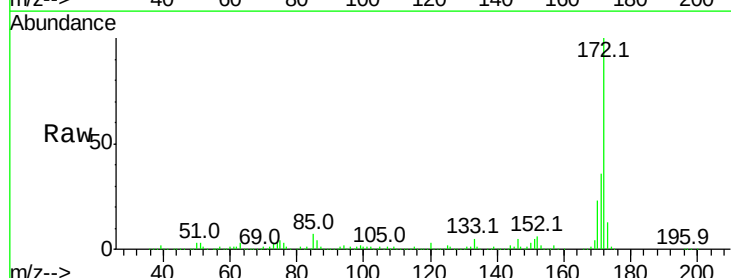
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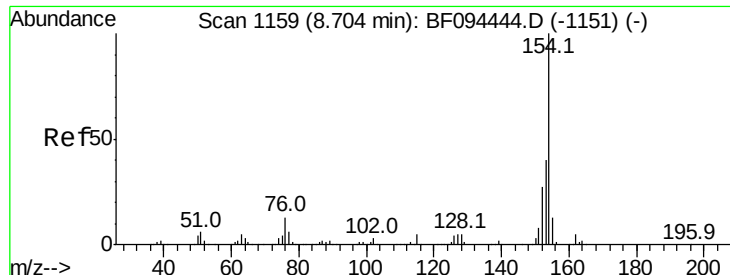
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#44
 2-Fluorobiphenyl
 Concen: 82.76 ng
 RT: 8.59 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1218484		
171	36.1		29.6	44.4
170	23.3		19.8	29.8





#45
 1,1'-Biphenyl
 Concen: 42.01 ng
 RT: 8.71 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

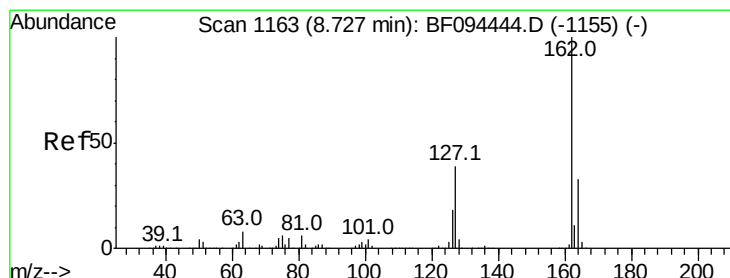
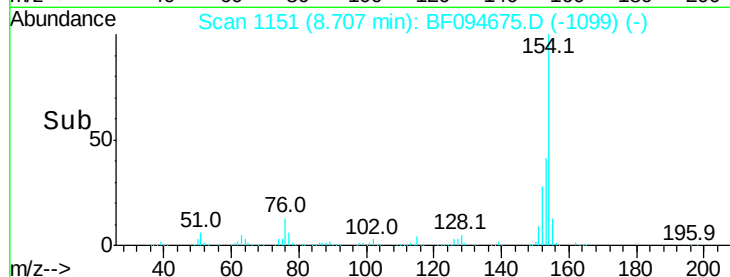
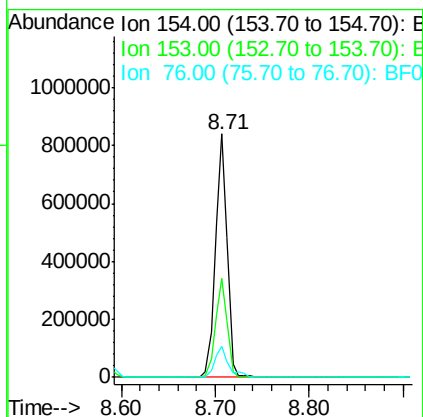
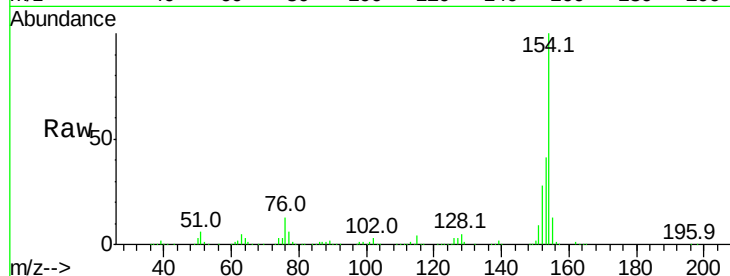
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	154	Resp:	743509
Ion Ratio	Lower	Upper	
154	100		
153	40.6	21.2	61.2
76	12.8	0.0	29.9

Manual Integrations
 APPROVED

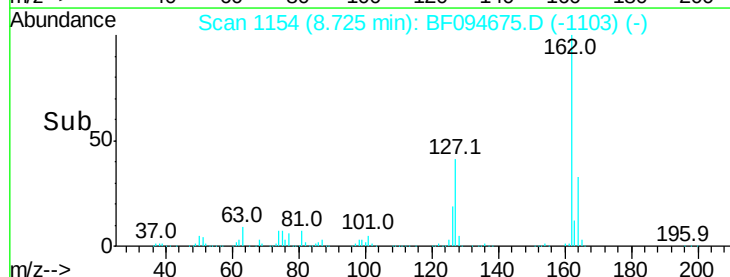
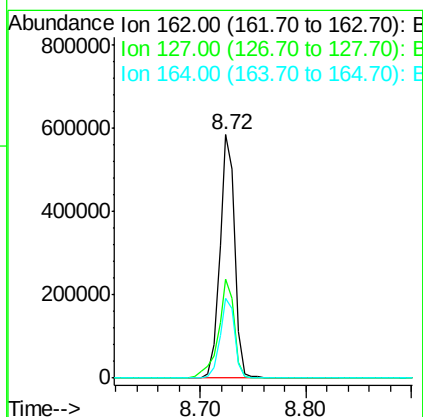
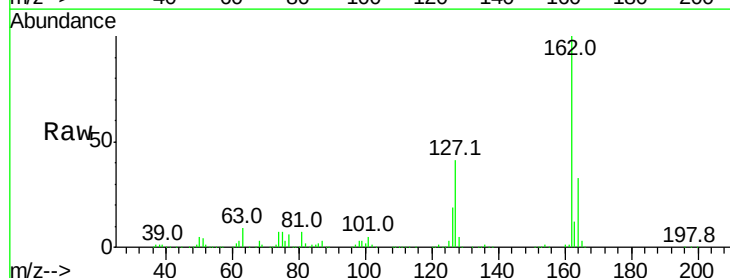
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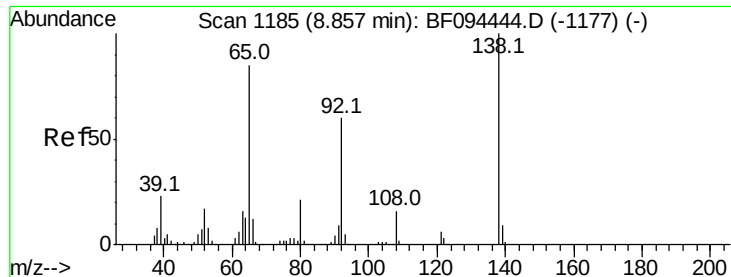
4/28/2017 3:00:49 PM



#46
 2-Chloronaphthalene
 Concen: 41.17 ng
 RT: 8.72 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion:	162	Resp:	579420
Ion Ratio	Lower	Upper	
162	100		
127	40.9	28.3	42.5
164	32.7	27.0	40.4





#47
2-Nitroaniline
Concen: 43.80 ng
RT: 8.87 min Scan# 1178
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

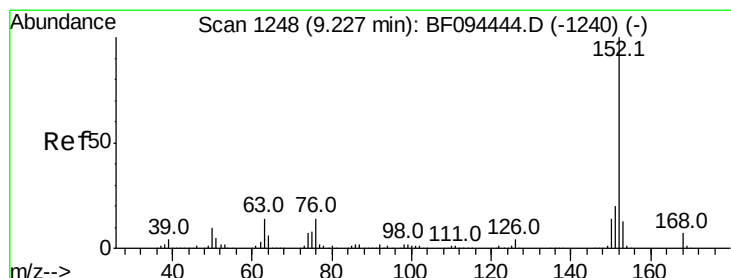
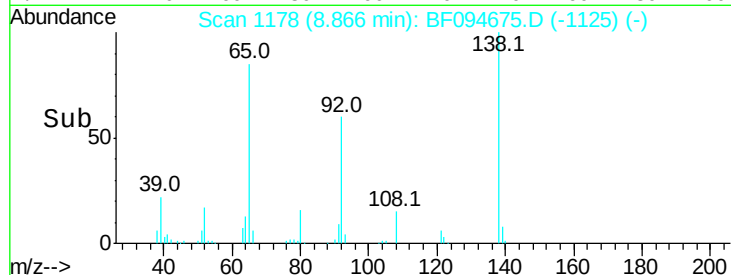
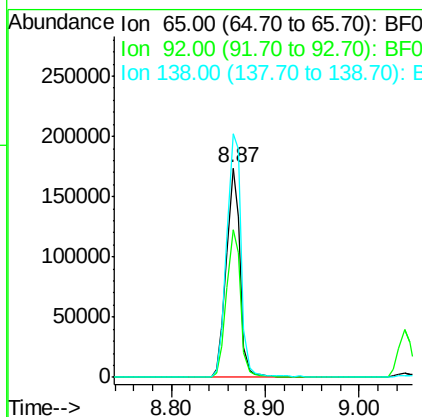
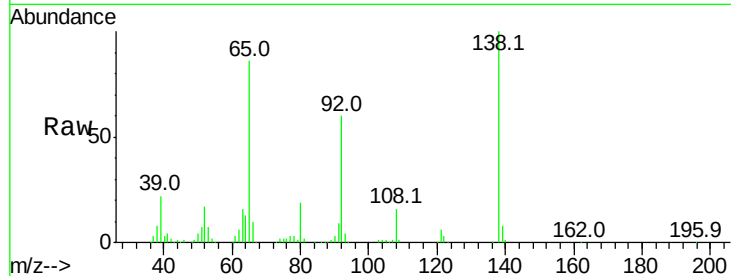
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Lower	Upper
65	100		
92	70.2	53.9	80.9
138	116.2	78.8	118.2

Manual Integrations
APPROVED

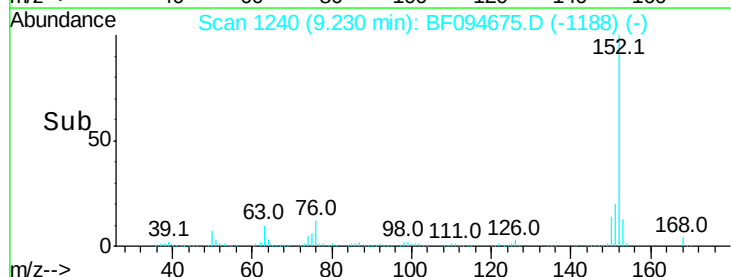
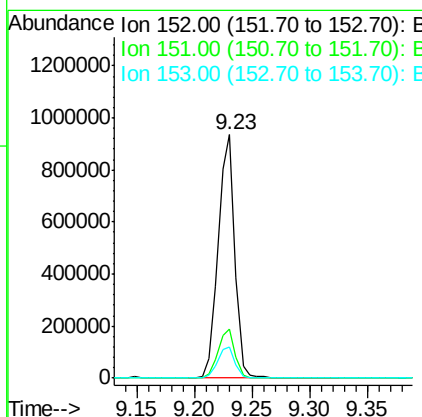
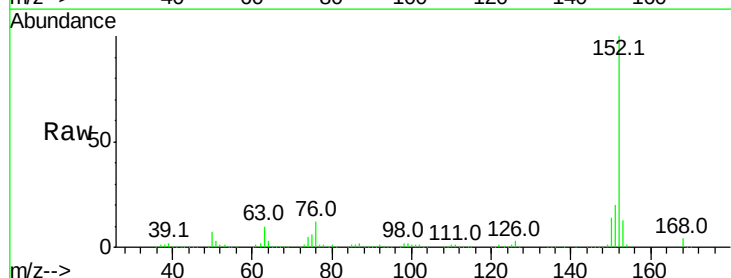
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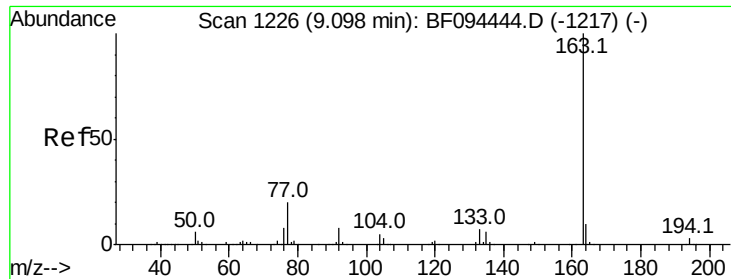
4/28/2017 3:00:49 PM



#48
Acenaphthylene
Concen: 42.41 ng
RT: 9.23 min Scan# 1240
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.8	25.2
153	13.0	10.8	16.2





#49
Dimethylphthalate
Concen: 46.16 ng
RT: 9.11 min Scan# 1219
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

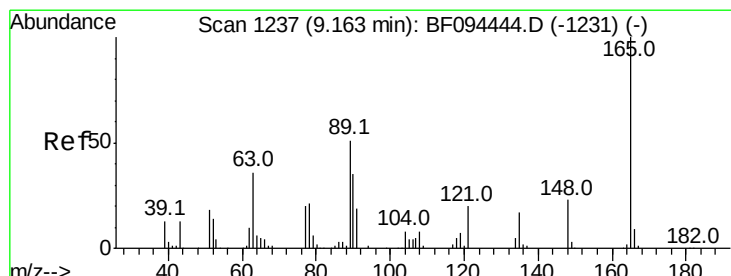
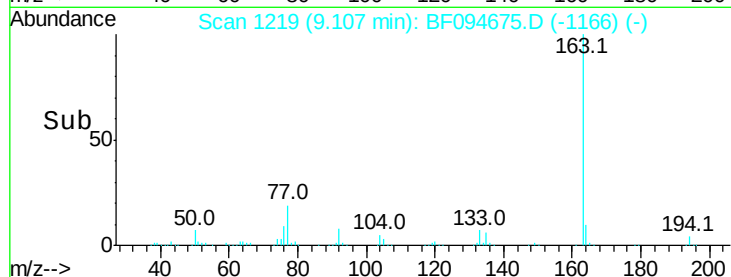
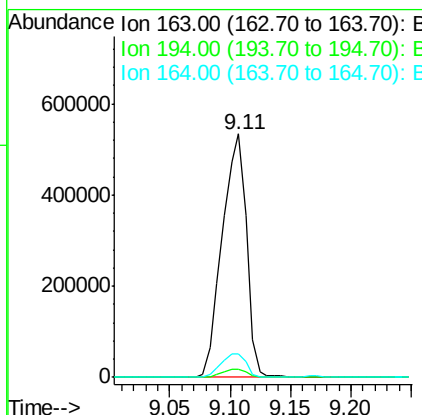
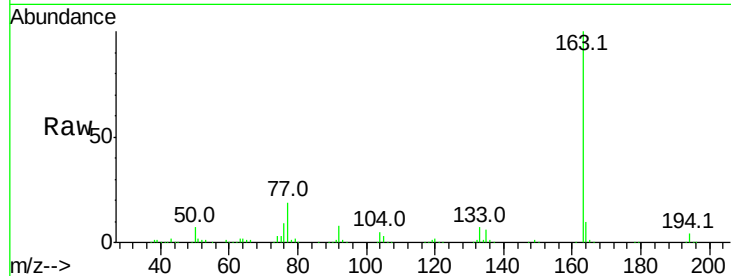
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
163	100	745168		
194	3.5	2.6	4.0	
164	9.7	8.4	12.6	

Manual Integrations
APPROVED

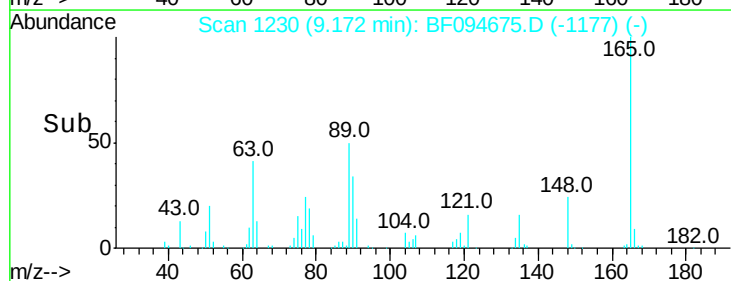
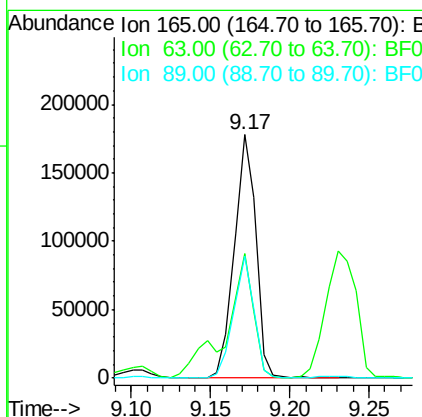
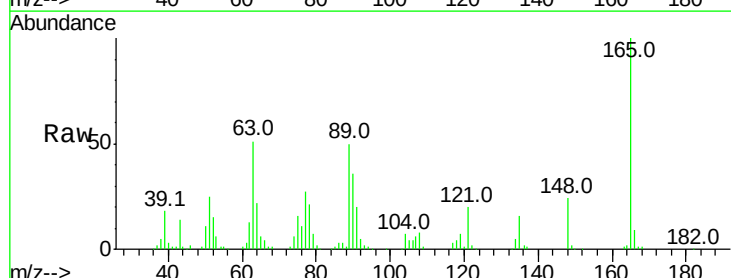
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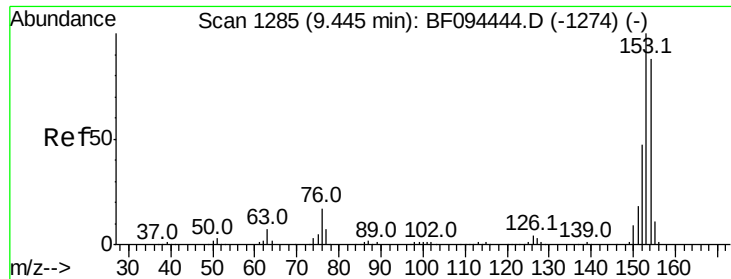
4/28/2017 3:00:49 PM



#50
2,6-Dinitrotoluene
Concen: 46.30 ng
RT: 9.17 min Scan# 1230
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	167769		
63	51.4	34.3	51.5	
89	50.1	37.1	55.7	





#51

Acenaphthene

Concen: 43.18 ng

RT: 9.44 min Scan# 1276

Delta R.T. -0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

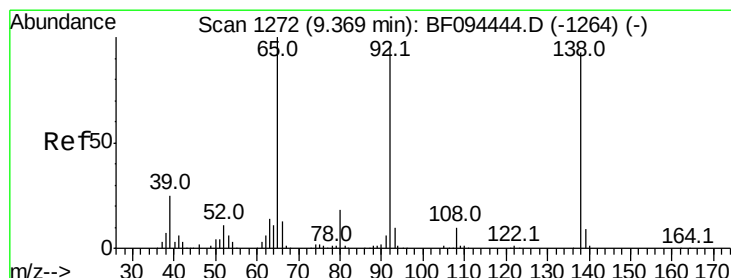
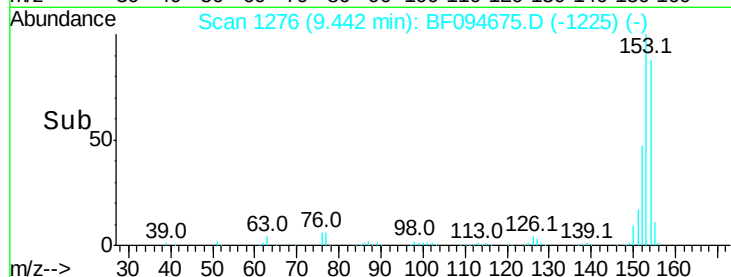
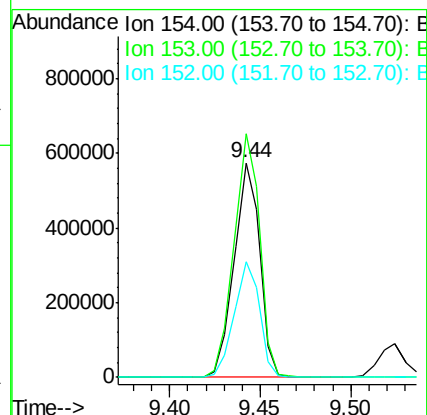
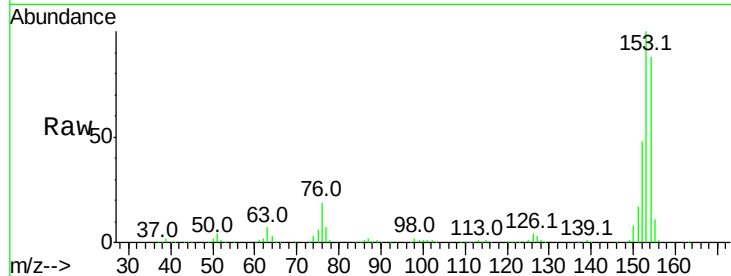
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	154	Resp:	567435
Ion Ratio	Lower	Upper	
154	100		
153	113.3	90.5	135.7
152	53.9	43.6	65.4

Manual Integrations
APPROVED

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#52

3-Nitroaniline

Concen: 19.36 ng

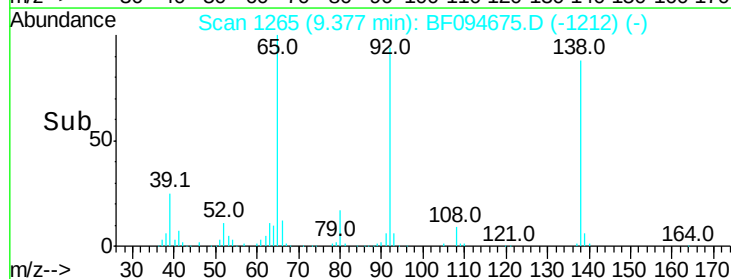
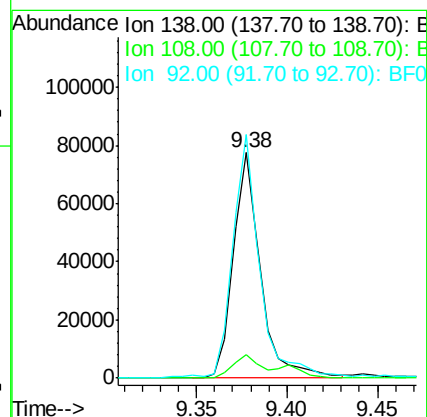
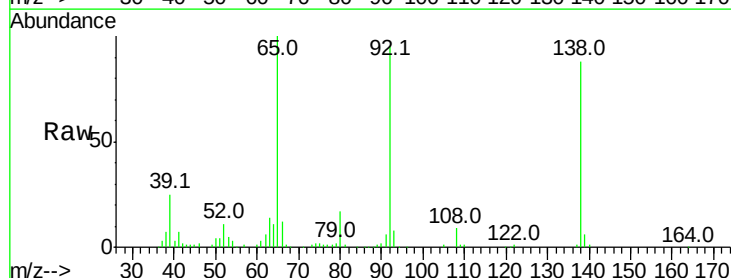
RT: 9.38 min Scan# 1265

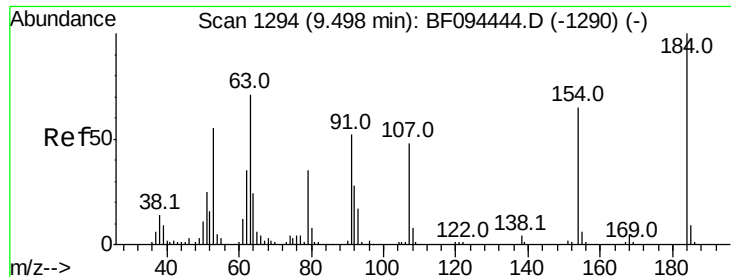
Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	138	Resp:	81160
Ion Ratio	Lower	Upper	
138	100		
108	10.6	9.1	13.7
92	108.0	93.8	140.6





#53
 2,4-Dinitrophenol
 Concen: 87.26 ng
 RT: 9.52 min Scan# 1290
 Delta R.T. 0.03 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

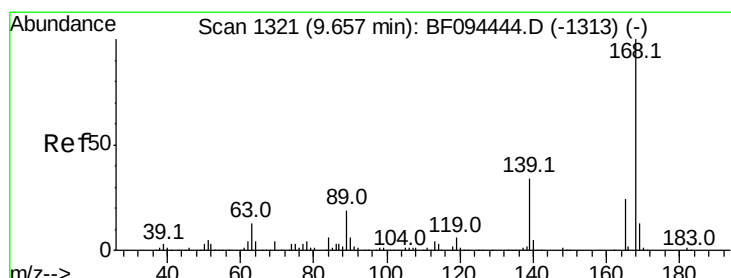
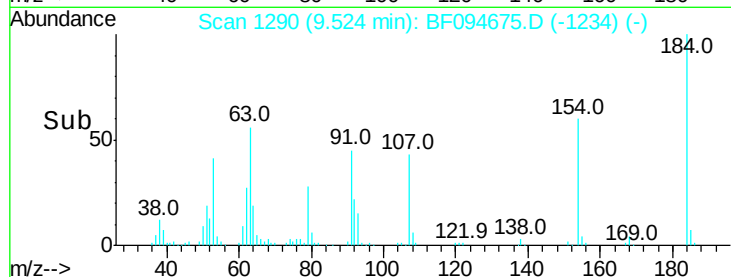
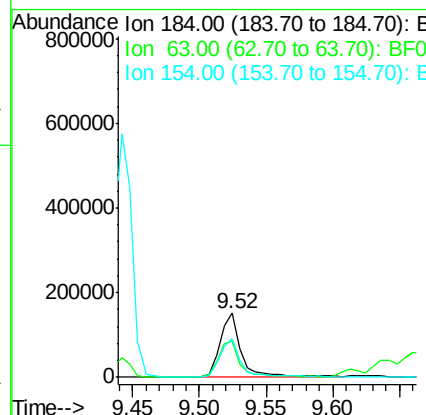
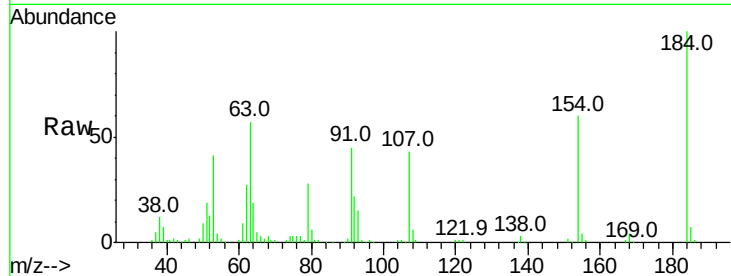
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
184	100	172689		
63	56.6	62.7	94.1#	
154	60.2	81.1	121.7#	

Manual Integrations
 APPROVED

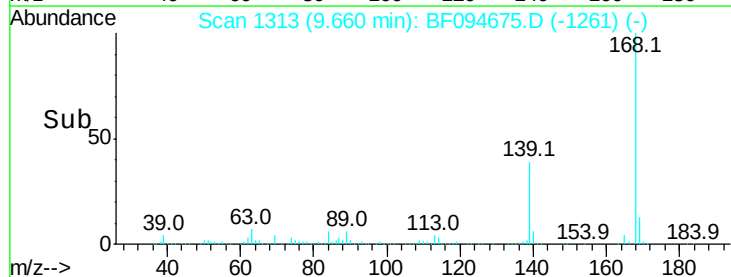
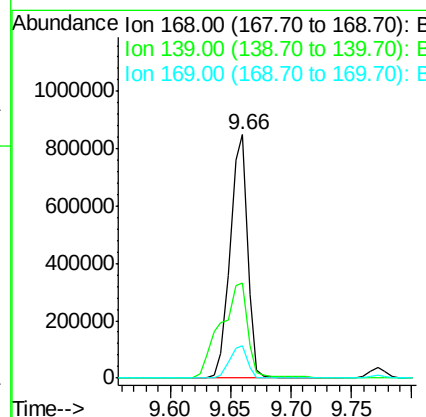
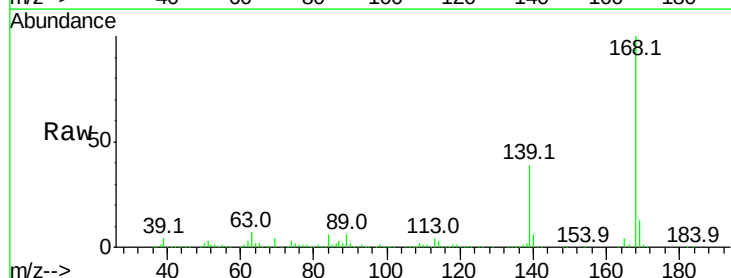
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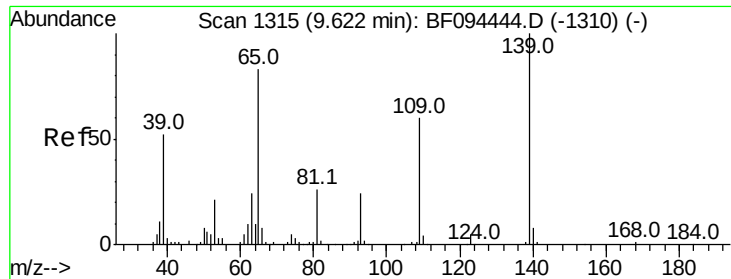
4/28/2017 3:00:49 PM



#54
 Dibenzofuran
 Concen: 44.54 ng
 RT: 9.66 min Scan# 1313
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	850667		
139	39.2	30.6	45.8	
169	13.4	10.8	16.2	





#55
4-Nitrophenol
Concen: 52.91 ng/ml
RT: 9.64 min Scan# 1310
Delta R.T. 0.02 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

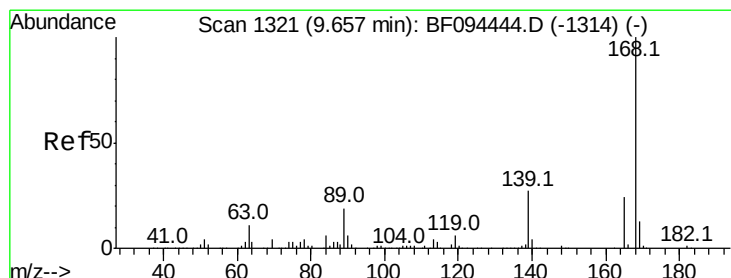
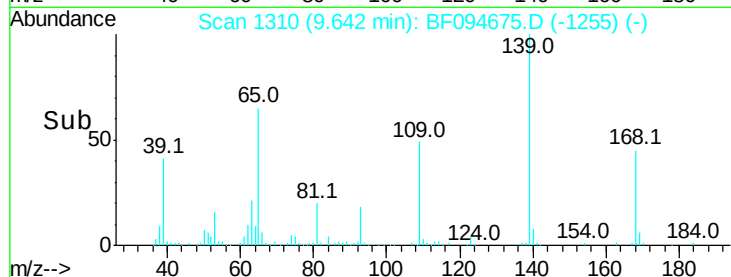
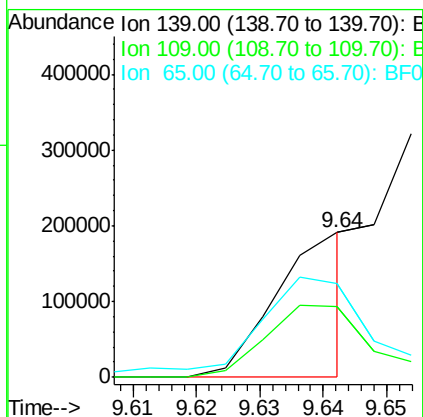
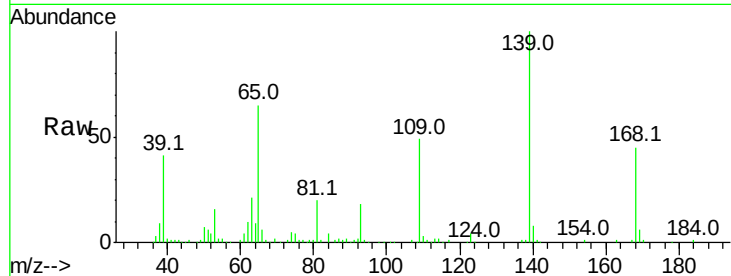
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	139	Resp:	156701
Ion Ratio	Lower	Upper	
139	100		
109	49.3	34.1	74.1
65	64.6	31.4	71.4

Manual Integrations
APPROVED

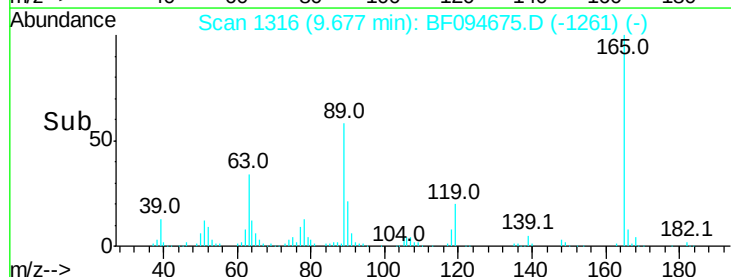
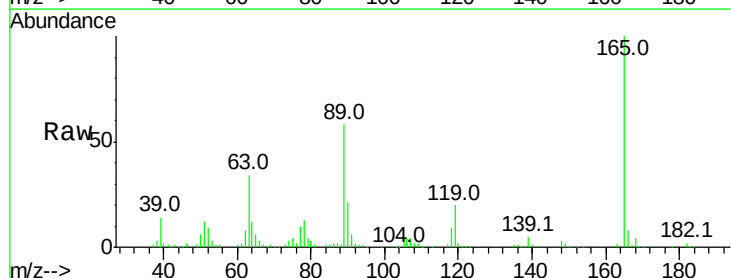
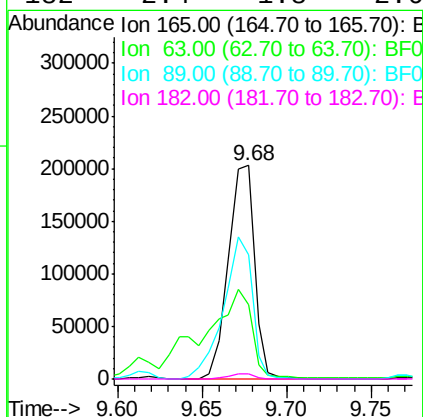
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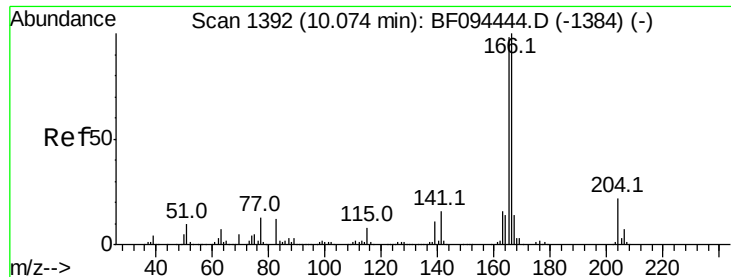
4/28/2017 3:00:49 PM



#56
2,4-Dinitrotoluene
Concen: 49.39 ng/ml
RT: 9.68 min Scan# 1316
Delta R.T. 0.02 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion:	165	Resp:	219610
Ion Ratio	Lower	Upper	
165	100		
63	34.5	25.4	38.0
89	58.3	46.4	69.6
182	2.4	1.8	2.6





#57

Fluorene

Concen: 44.43 ng

RT: 10.08 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:166 Resp: 660775

Ion Ratio Lower Upper

166 100

165 99.3 78.8 118.2

167 13.7 10.6 16.0

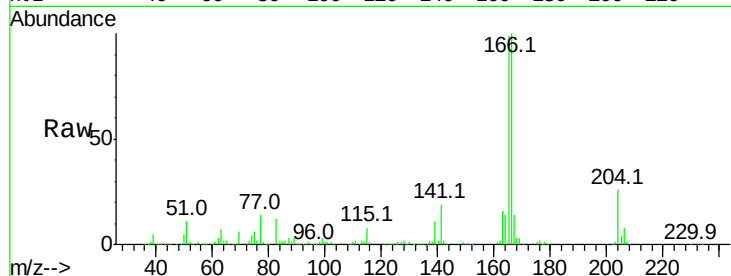
Manual Integrations

APPROVED

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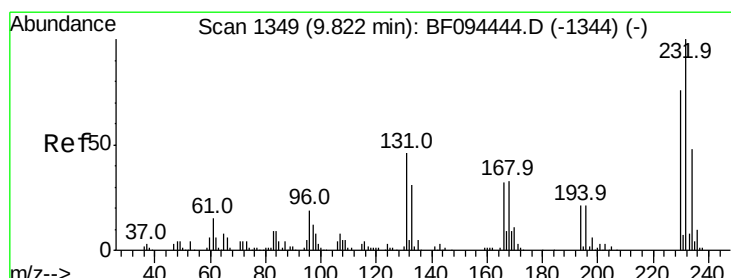
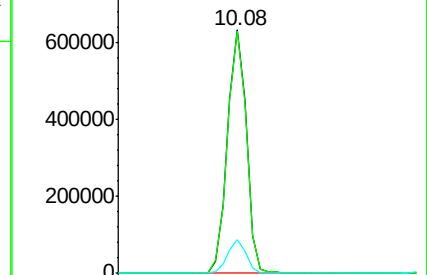
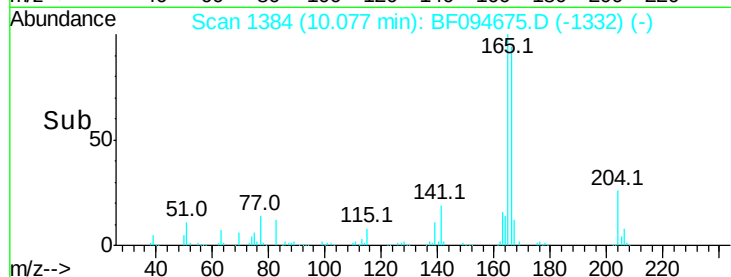
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Abundance Ion 166.00 (165.70 to 166.70): E

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: 46.59 ng

RT: 9.82 min Scan# 1341

Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:232 Resp: 148558

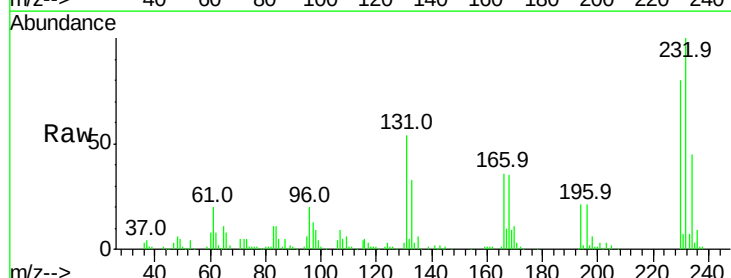
Ion Ratio Lower Upper

232 100

131 50.0 44.8 67.2

130 2.3 2.3 3.5#

166 35.6 29.0 43.4

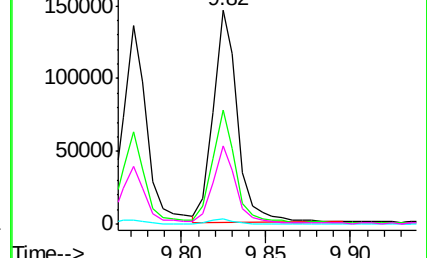
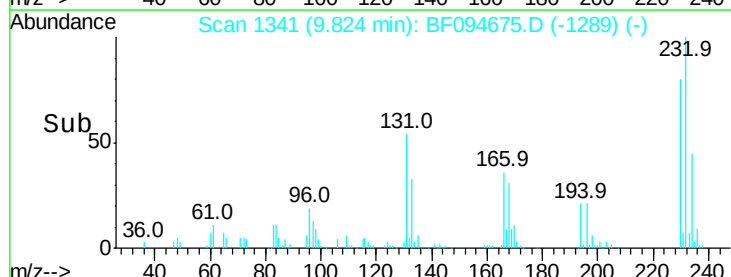


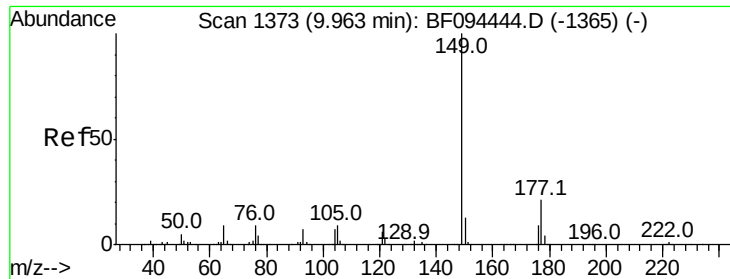
Abundance Ion 232.00 (231.70 to 232.70): E

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: 46.63 ng
RT: 9.97 min Scan# 1366
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

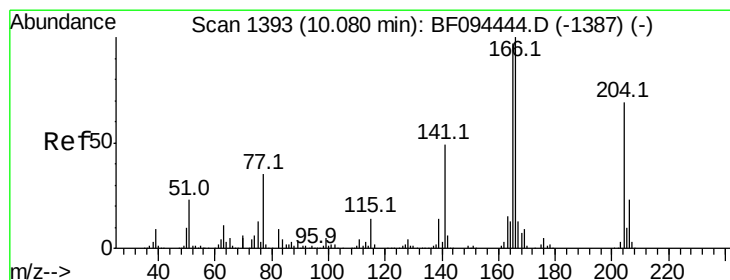
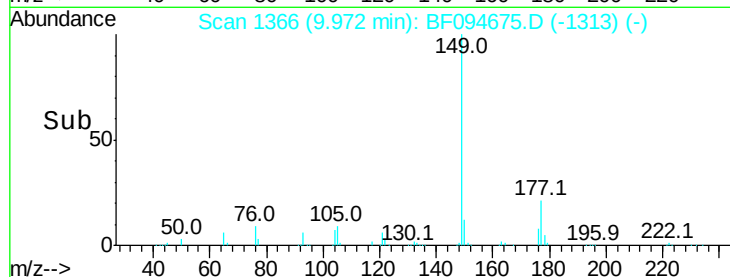
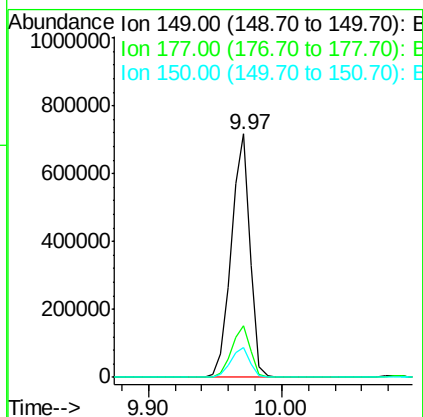
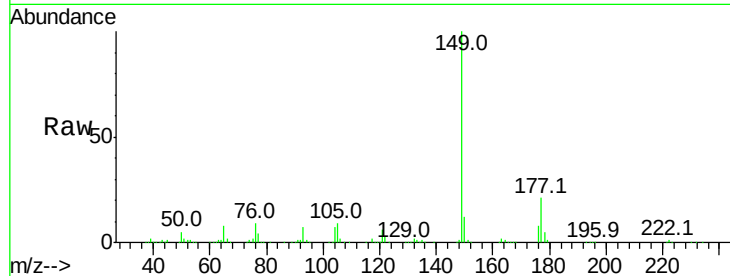
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
149	100	710314		
177	21.4	16.7	25.1	
150	12.3	10.2	15.2	

Manual Integrations
APPROVED

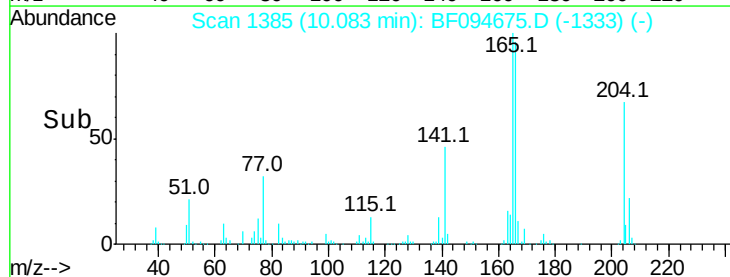
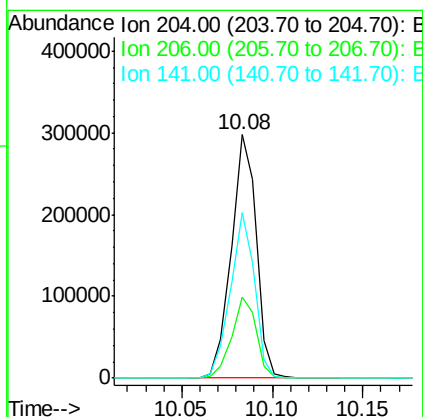
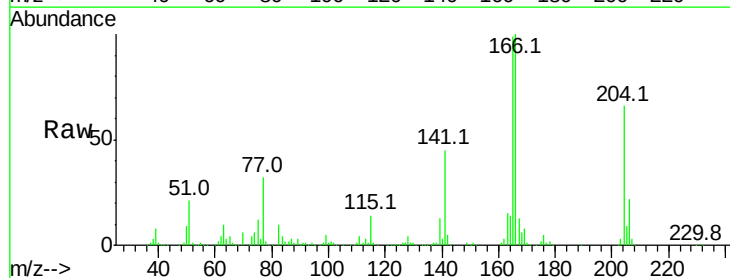
mohammad
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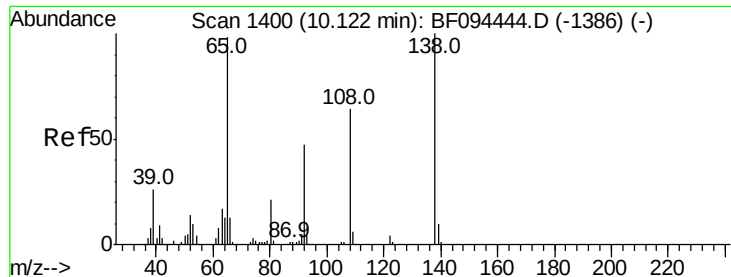
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#60
4-Chlorophenyl-phenylether
Concen: 46.15 ng
RT: 10.08 min Scan# 1385
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
204	100	285612		
206	33.2	26.2	39.2	
141	68.2	60.8	91.2	





#61
4-Nitroaniline
Concen: 37.68 ng
RT: 10.14 min Scan# 1394
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

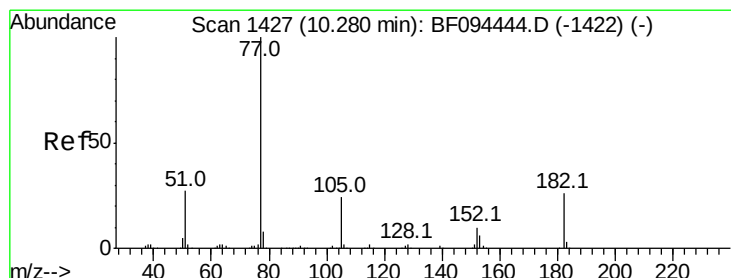
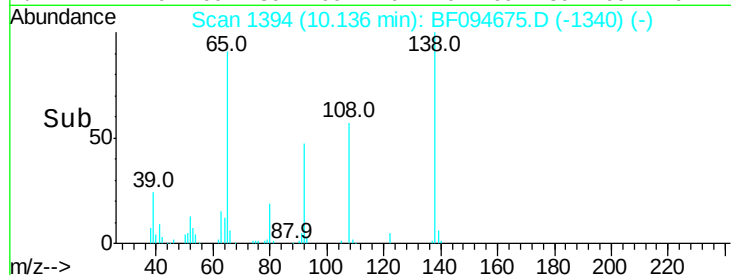
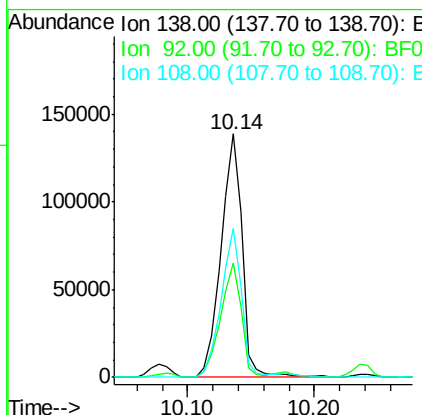
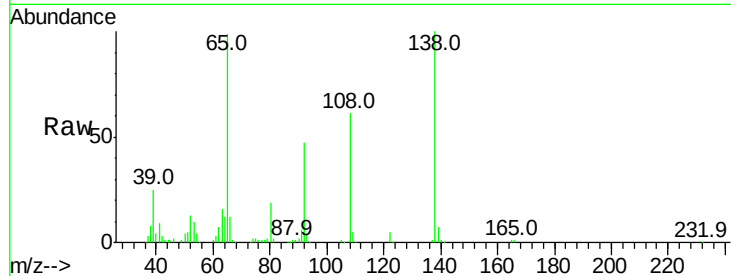
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
138	100	160596		
92	46.9	21.8	61.8	
108	60.9	42.3	82.3	

Manual Integrations
APPROVED

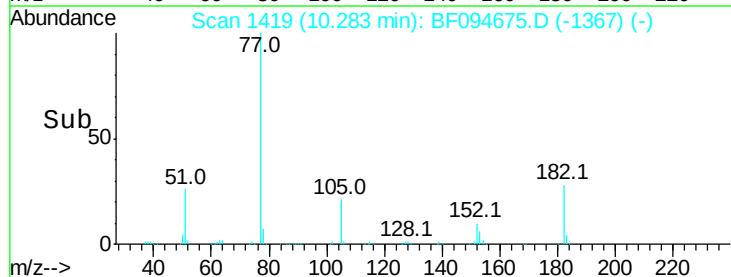
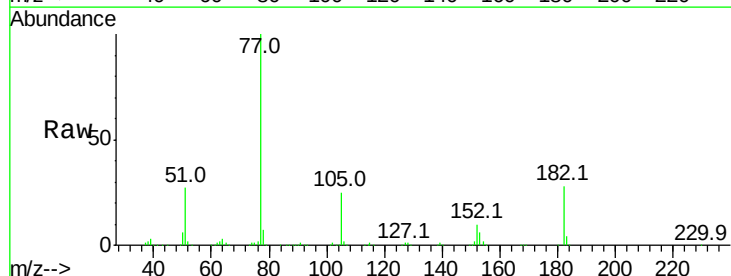
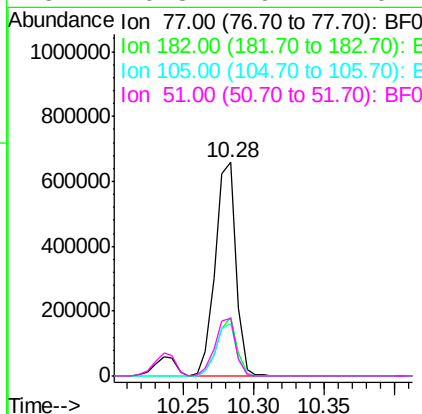
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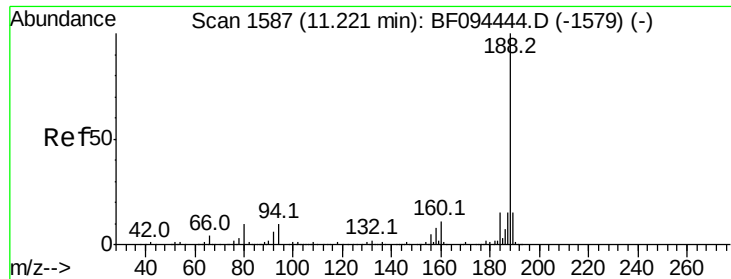
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#62
Azobenzene
Concen: 45.36 ng
RT: 10.28 min Scan# 1419
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
77	100	670888		
182	27.8	0.1	40.1	
105	24.7	3.6	43.6	
51	26.8	9.4	49.4	





#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

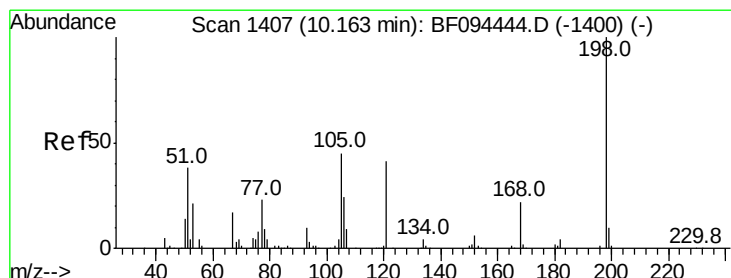
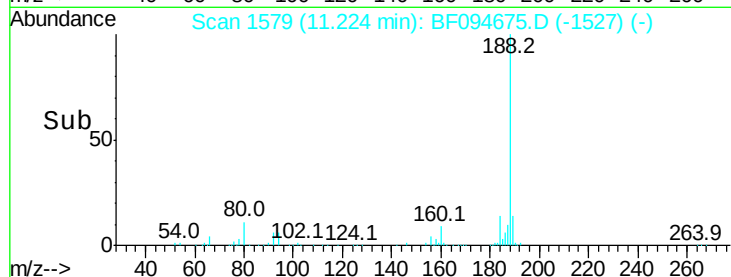
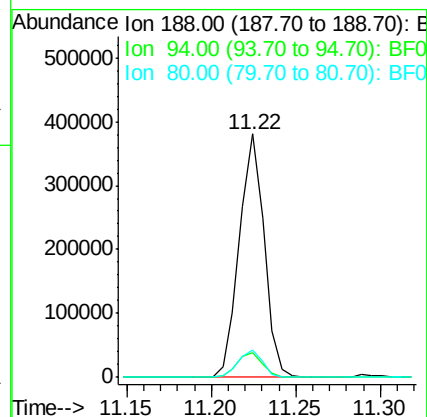
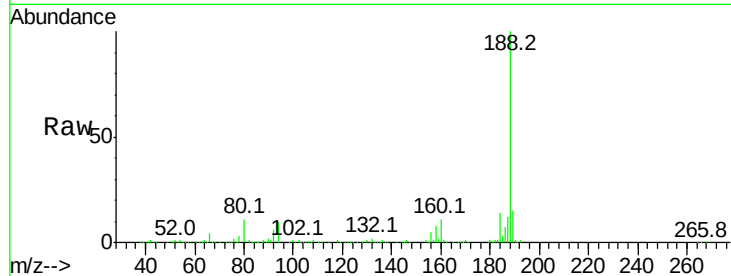
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
188	100	390321		
94	10.2		9.4	14.2
80	11.1		10.2	15.2

Manual Integrations
APPROVED

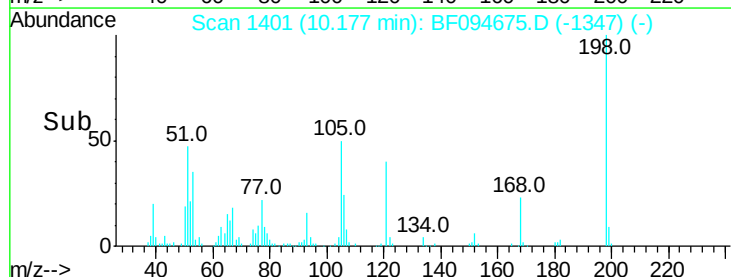
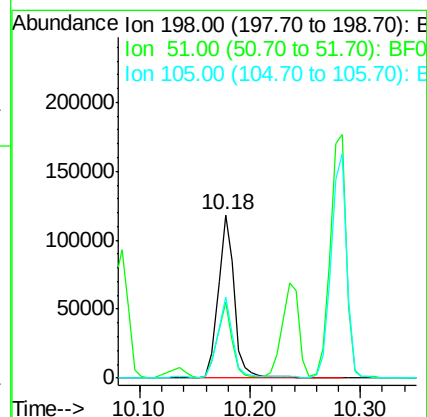
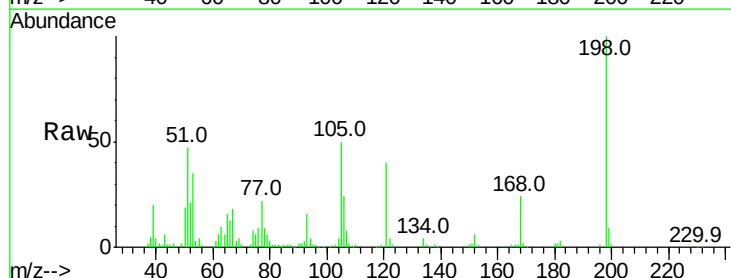
mohammad
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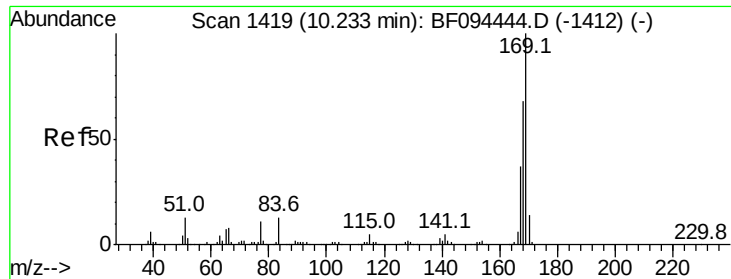
4/28/2017 3:00:49 PM



#64
4,6-Dinitro-2-methylphenol
Concen: 46.19 ng
RT: 10.18 min Scan# 1401
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
198	100	118133		
51	46.7		53.2	93.2#
105	49.7		45.8	85.8





#65
n-Nitrosodiphenylamine
Concen: 44.22 ng
RT: 10.24 min Scan# 1412
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

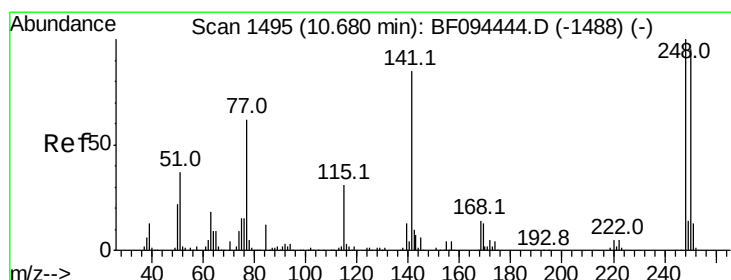
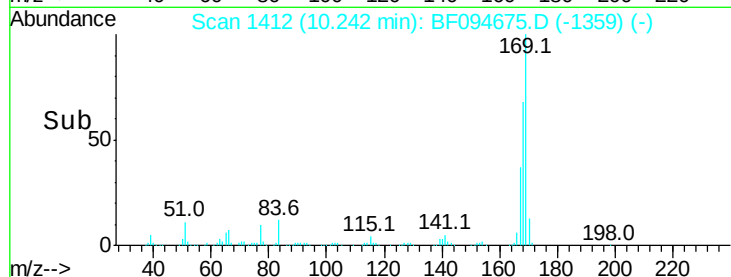
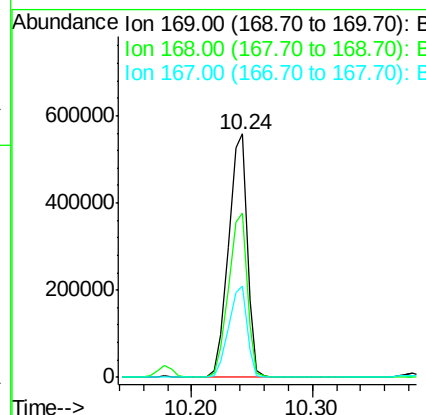
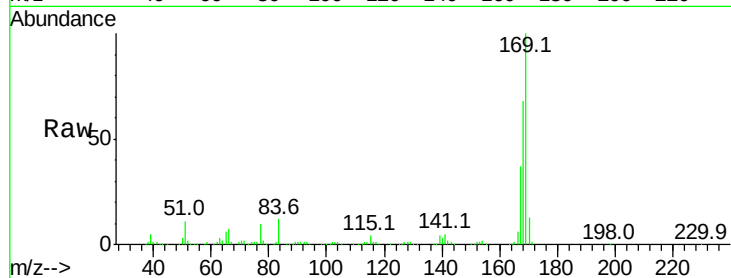
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
169	100	600226		
168	67.7		53.2	79.8
167	37.5		29.5	44.3

Manual Integrations
APPROVED

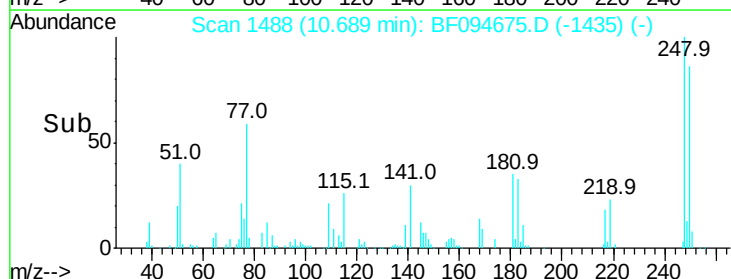
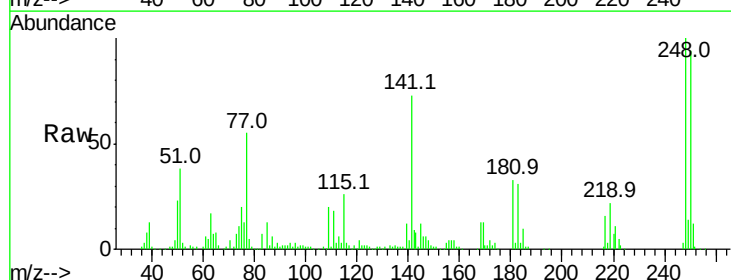
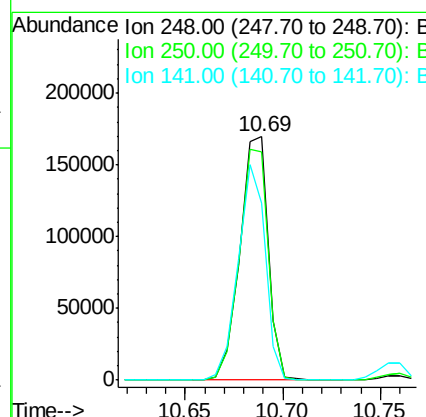
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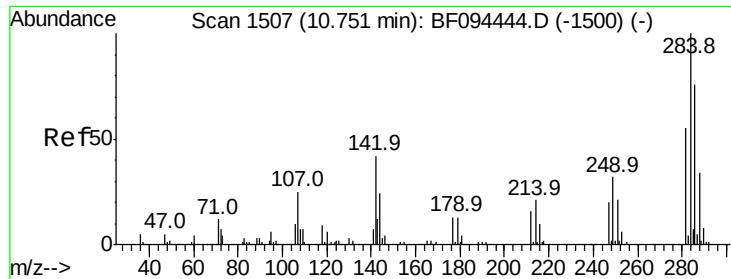
4/28/2017 3:00:49 PM



#66
4-Bromophenyl-phenylether
Concen: 44.12 ng
RT: 10.69 min Scan# 1488
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
248	100	170984		
250	93.7		76.8	115.2
141	72.7		68.6	103.0





#67

Hexachlorobenzene

Concen: 45.55 ng

RT: 10.76 min Scan# 1500

Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

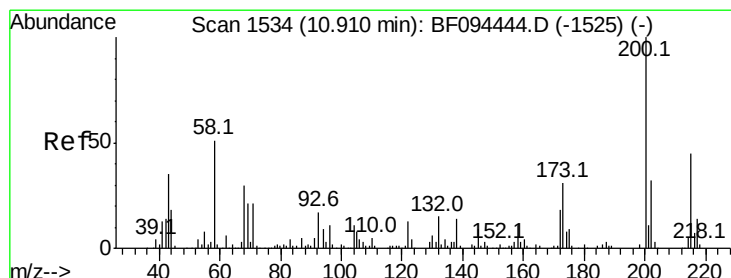
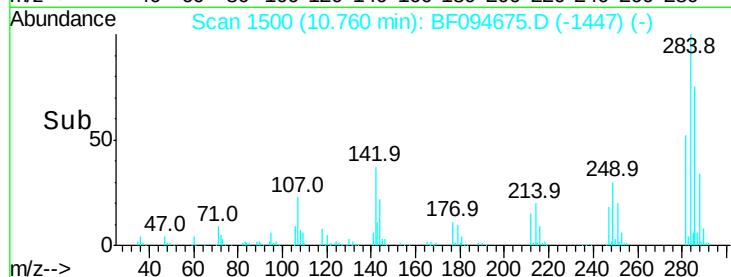
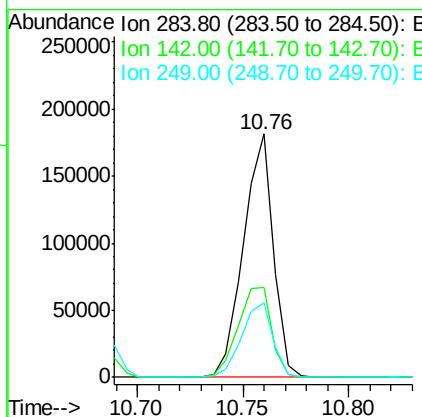
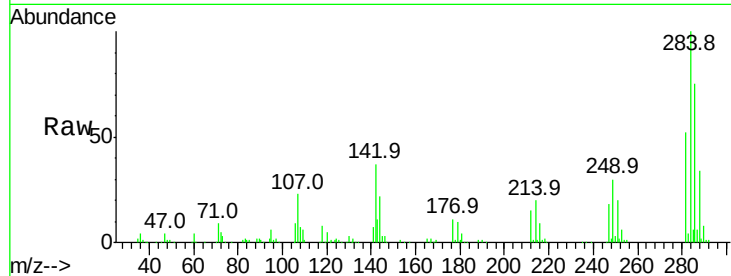
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	284	Resp:	177901
Ion Ratio	Lower	Upper	
284	100		
142	37.0	22.8	34.2#
249	30.5	24.0	36.0

Manual Integrations
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#68

Atrazine

Concen: 44.92 ng

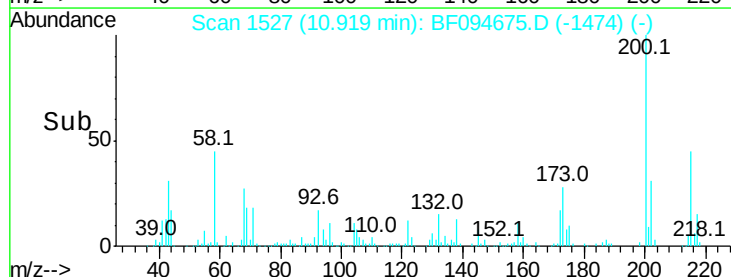
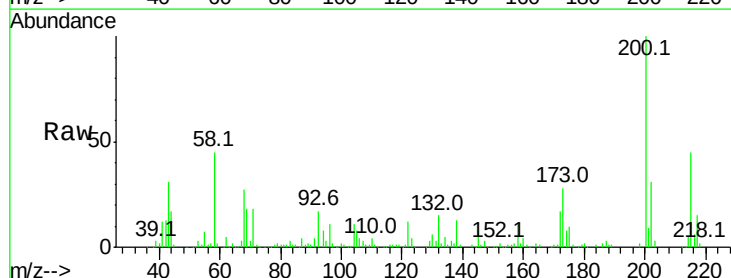
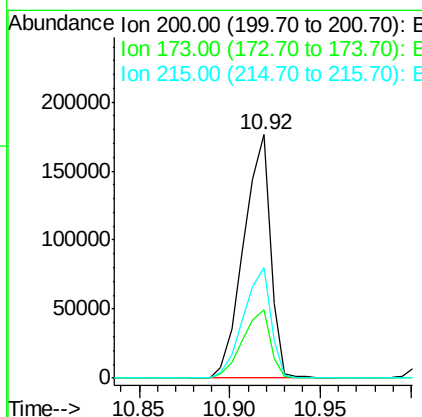
RT: 10.92 min Scan# 1527

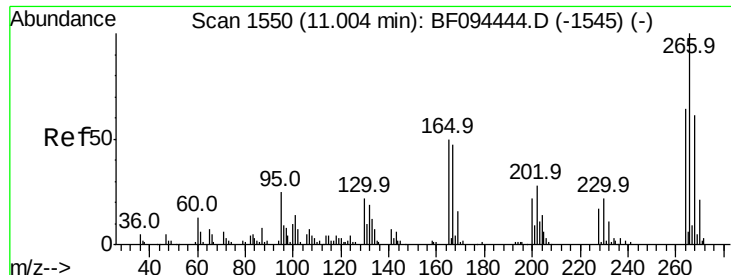
Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	200	Resp:	182422
Ion Ratio	Lower	Upper	
200	100		
173	28.0	6.3	46.3
215	45.4	27.2	67.2





#69
 Pentachlorophenol
 Concen: 104.81 ng
 RT: 11.01 min Scan# 1543
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

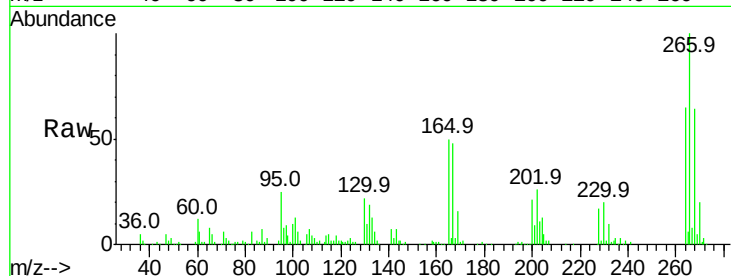
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	266	Resp:	162556
Ion Ratio		Lower	Upper
266	100		
268	64.3	51.1	76.7
264	65.2	51.7	77.5

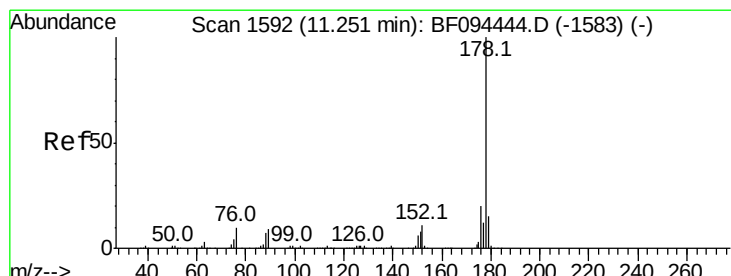
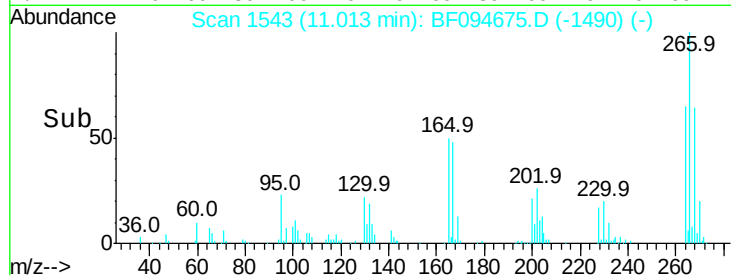
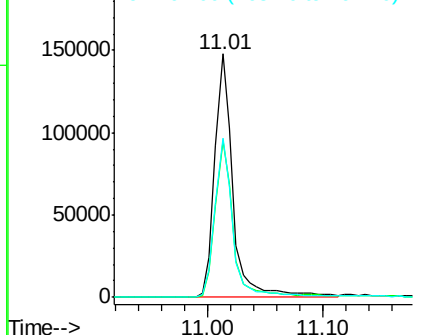
Manual Integrations
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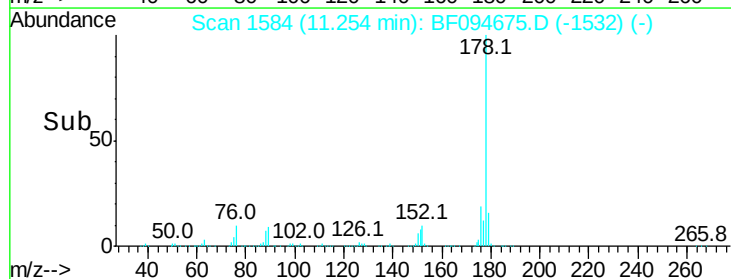
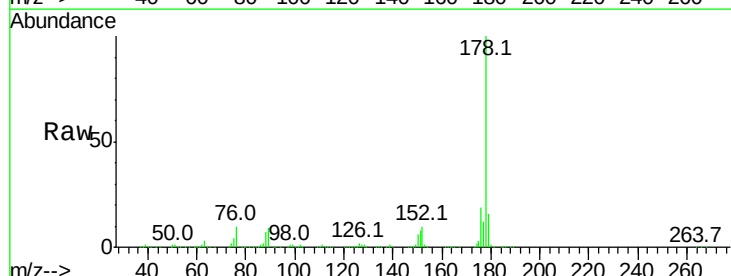
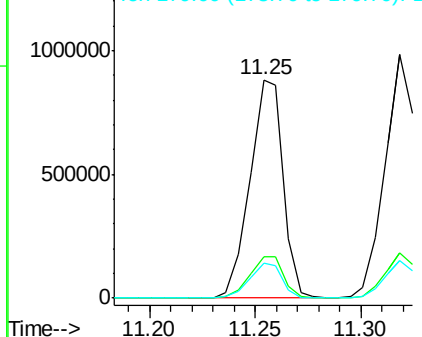
Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

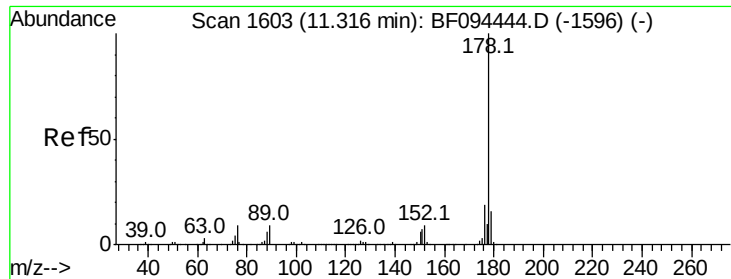


#70
 Phenanthrene
 Concen: 43.89 ng
 RT: 11.25 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion:	178	Resp:	964784
Ion Ratio		Lower	Upper
178	100		
176	19.0	16.2	24.4
179	15.8	12.6	19.0

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: 43.89 ng
 RT: 11.32 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

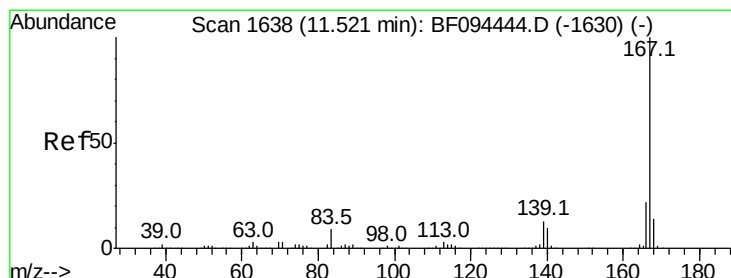
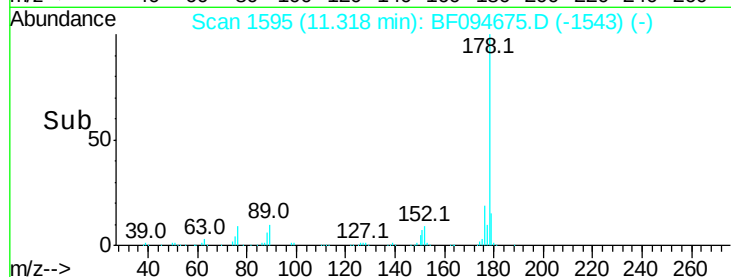
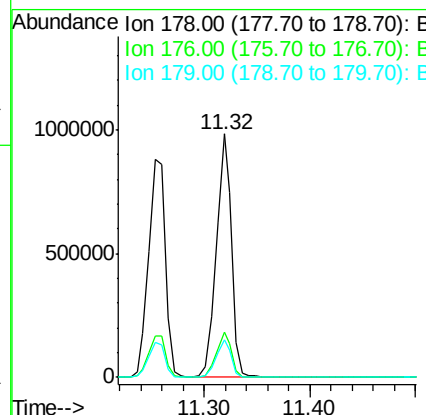
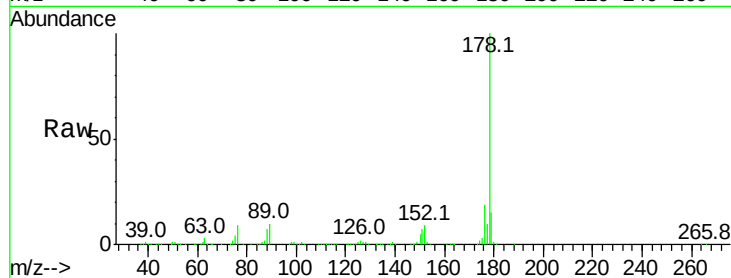
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	15.4	12.7	19.1

Manual Integrations
 APPROVED

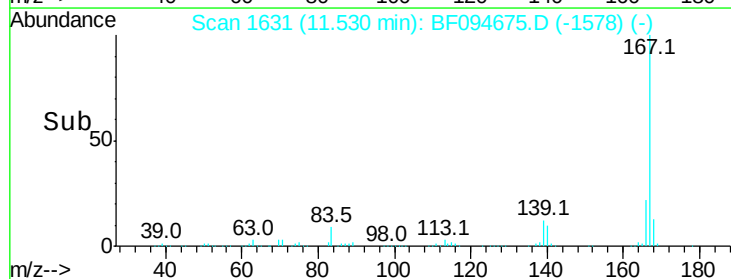
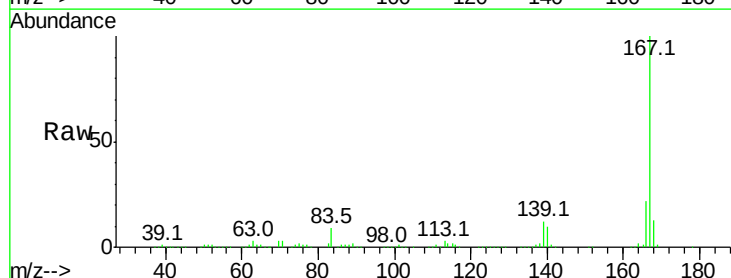
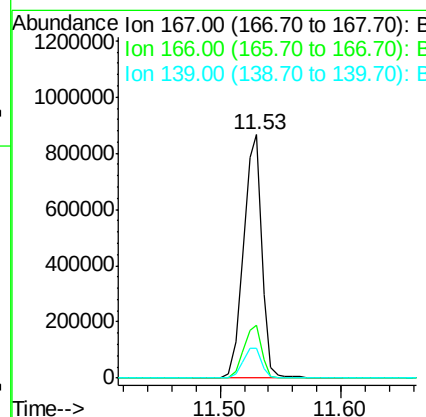
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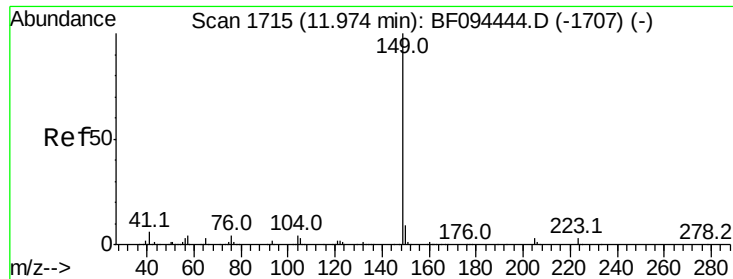
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#72
 Carbazole
 Concen: 43.02 ng
 RT: 11.53 min Scan# 1631
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.1	27.1
139	12.4	11.7	17.5





#73
Di-n-butylphthalate
Concen: 48.41 ng
RT: 11.98 min Scan# 1707
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

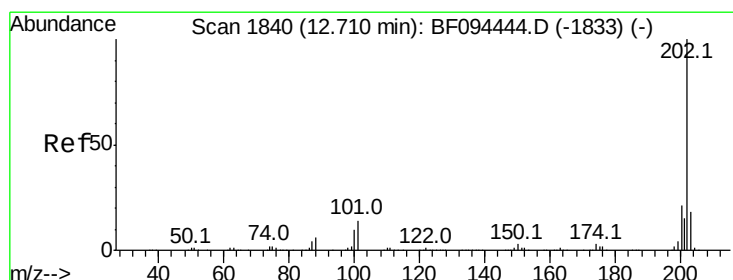
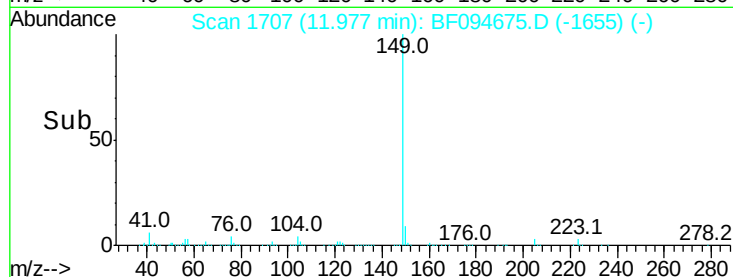
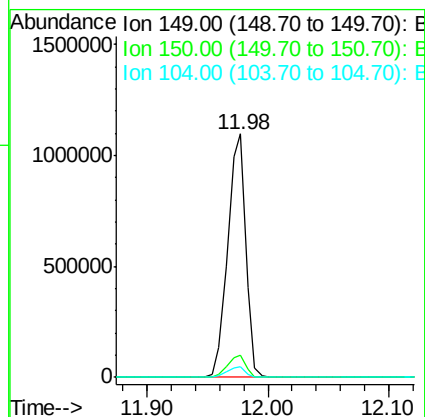
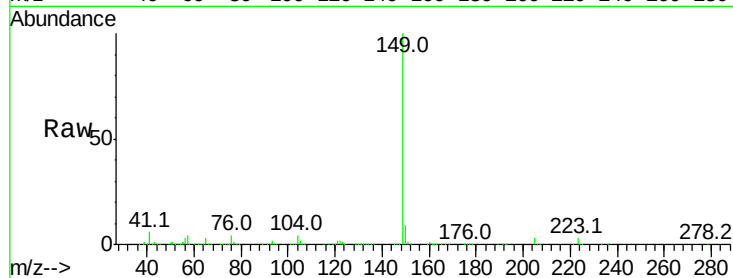
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:149 Resp: 1137357
Ion Ratio Lower Upper
149 100
150 9.3 7.7 11.5
104 4.3 4.0 6.0

Manual Integrations
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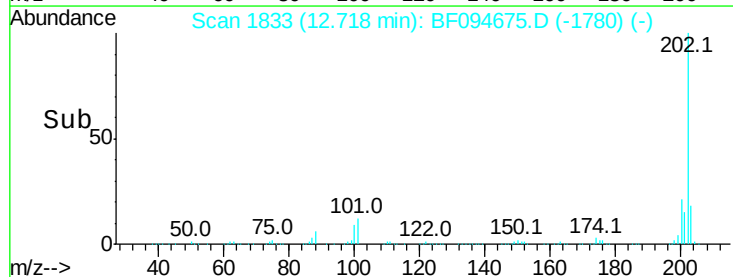
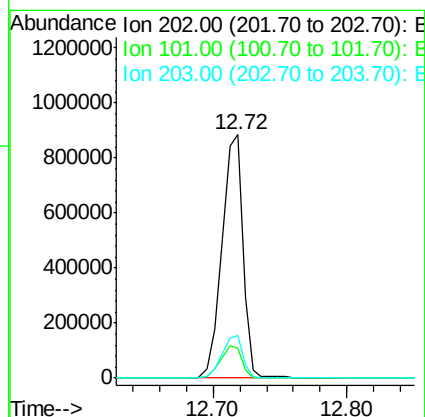
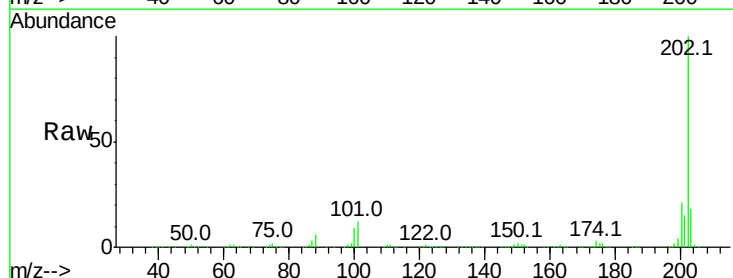
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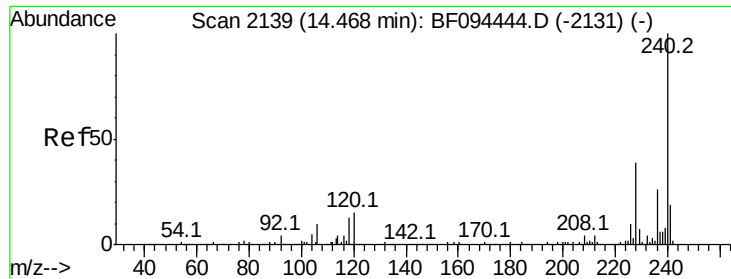
4/28/2017 3:00:49 PM



#74
Fluoranthene
Concen: 43.66 ng
RT: 12.72 min Scan# 1833
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion:202 Resp: 994622
Ion Ratio Lower Upper
202 100
101 12.2 0.0 33.2
203 17.6 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.48 min Scan# 2132

Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:240 Resp: 296964

Ion Ratio Lower Upper

240 100

120 14.2 5.8 8.8#

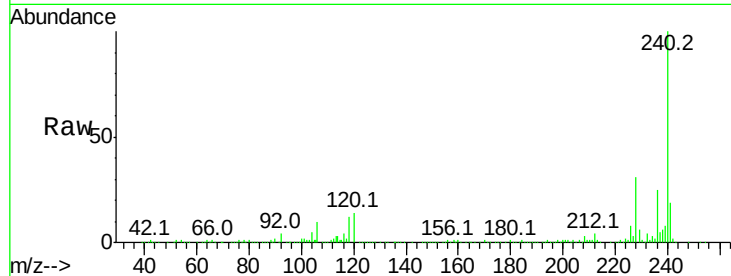
236 25.4 20.5 30.7

Manual Integrations
APPROVED

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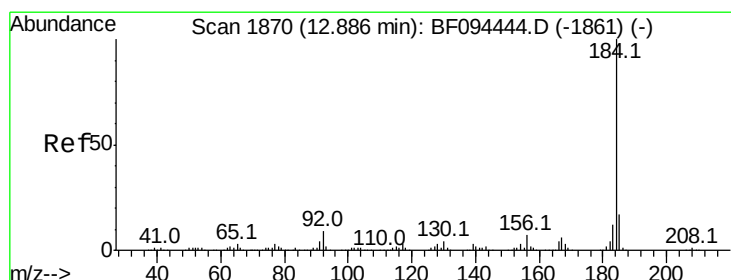
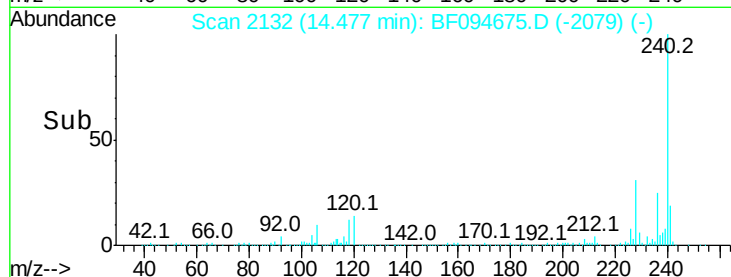
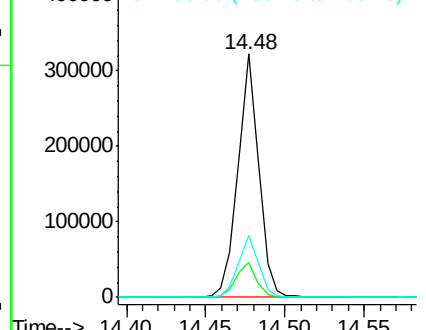
4/28/2017 3:00:49 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 7.99 ng

RT: 12.89 min Scan# 1862

Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

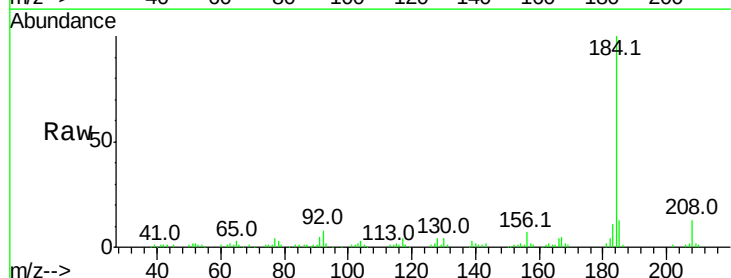
Tgt Ion:184 Resp: 96024

Ion Ratio Lower Upper

184 100

185 13.3 15.5 23.3#

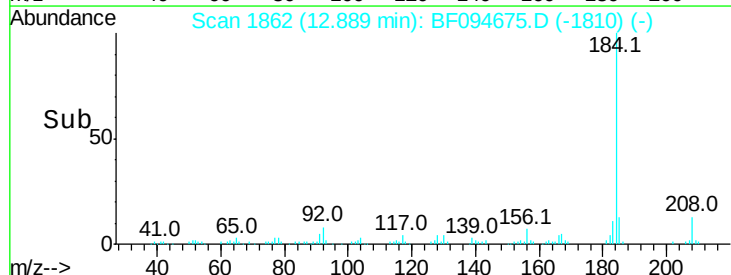
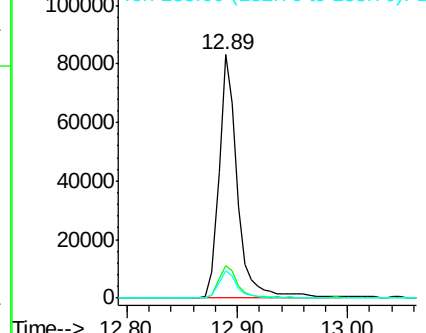
183 11.4 9.8 14.6

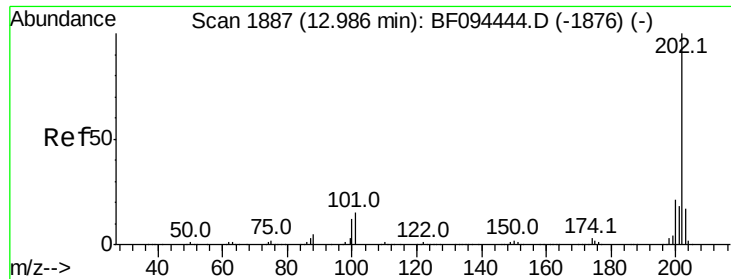


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77
Pvrene
Concen: 48.19 ng
RT: 12.99 min Scan# 1879
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

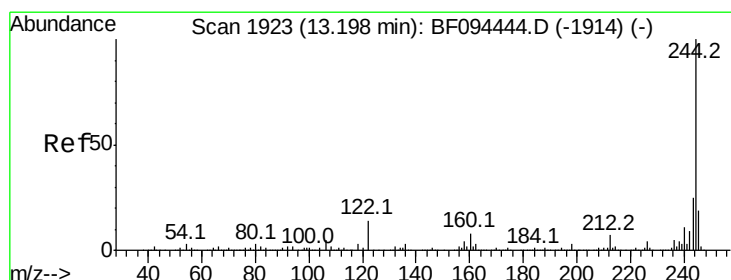
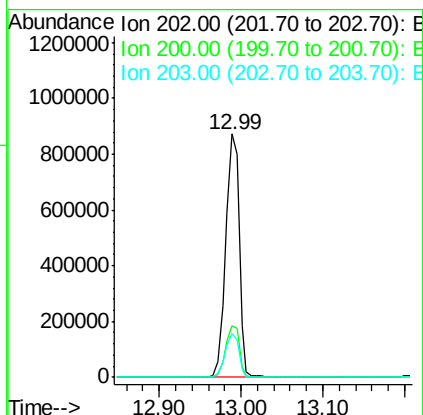
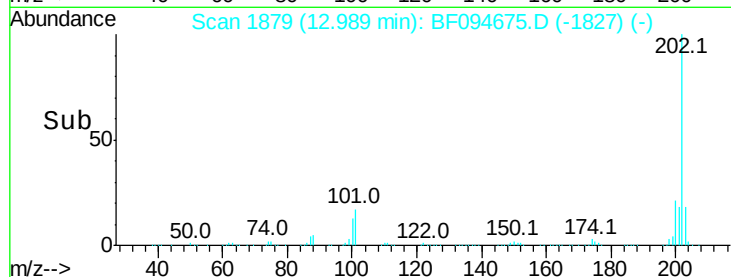
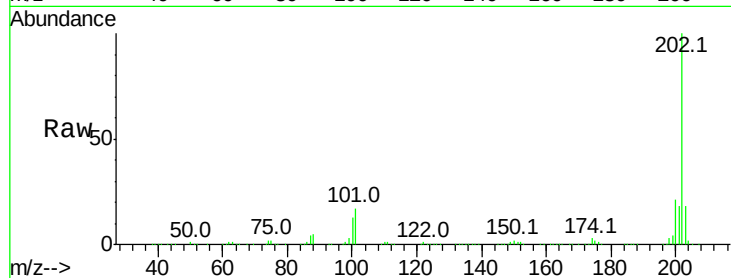
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
202	100	999756		
200	21.4		17.6	26.4
203	18.0		14.4	21.6

Manual Integrations
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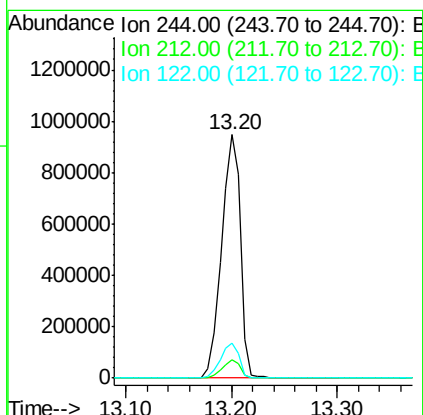
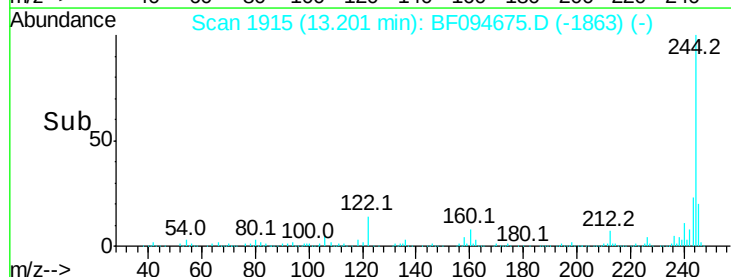
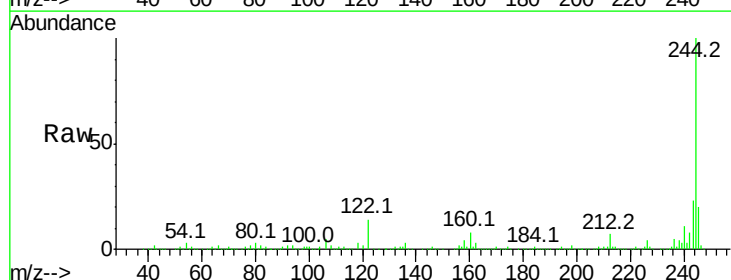
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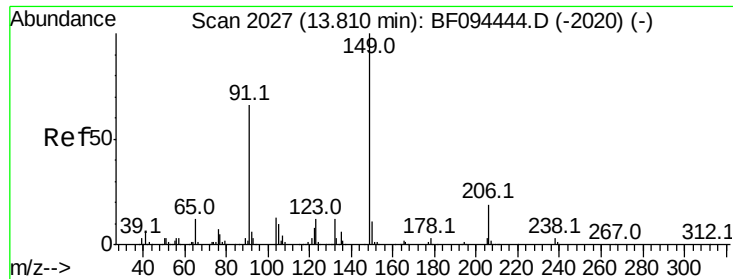
4/28/2017 3:00:49 PM



#78
Terphenyl-d14
Concen: 106.18 ng
RT: 13.20 min Scan# 1915
Delta R.T. 0.00 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	1179663		
212	7.5		6.0	9.0
122	14.3		10.3	15.5





#79

Butylbenzylphthalate

Concen: 53.29 ng

RT: 13.81 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

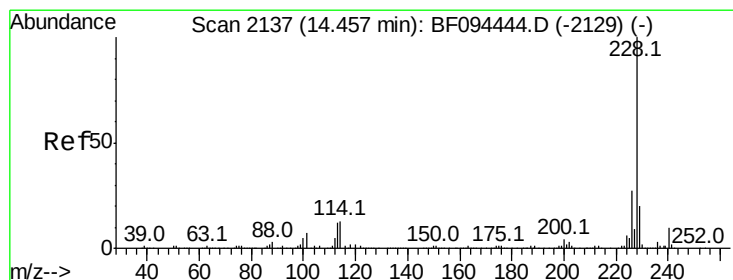
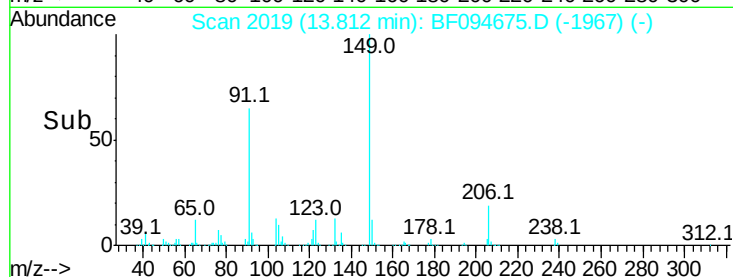
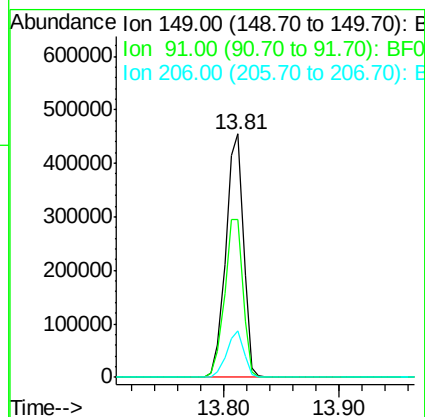
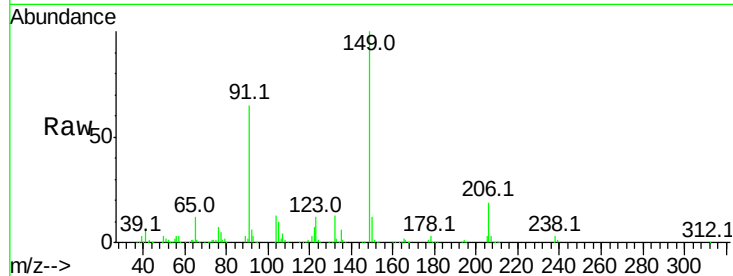
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	149	Resp:	484527
Ion Ratio	Lower	Upper	
149	100		
91	64.9	45.0	67.4
206	19.1	17.0	25.6

Manual Integrations
APPROVED

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#80

Benzo(a)anthracene

Concen: 44.90 ng

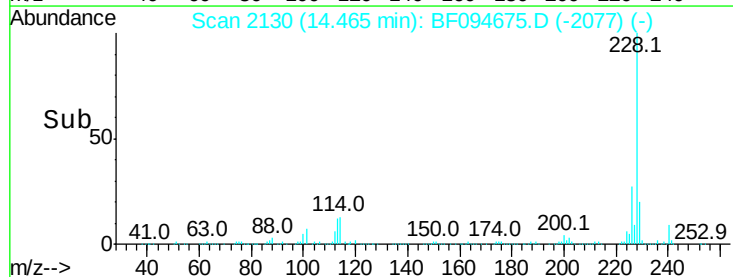
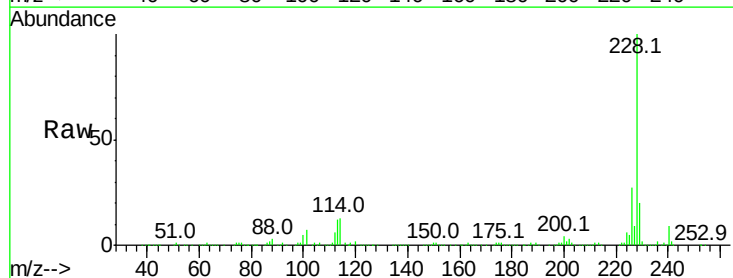
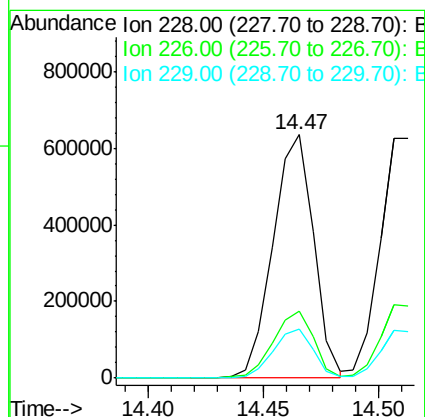
RT: 14.47 min Scan# 2130

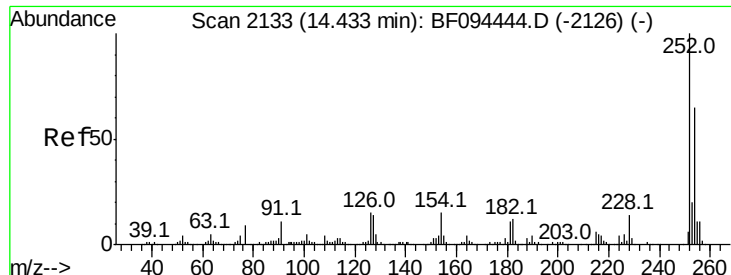
Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	228	Resp:	774984
Ion Ratio	Lower	Upper	
228	100		
226	27.4	22.6	33.8
229	20.0	16.3	24.5





#81
 3,3'-Dichlorobenzidine
 Concen: 26.57 ng
 RT: 14.44 min Scan# 2125
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

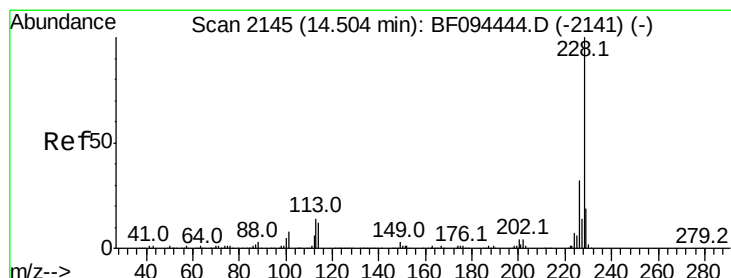
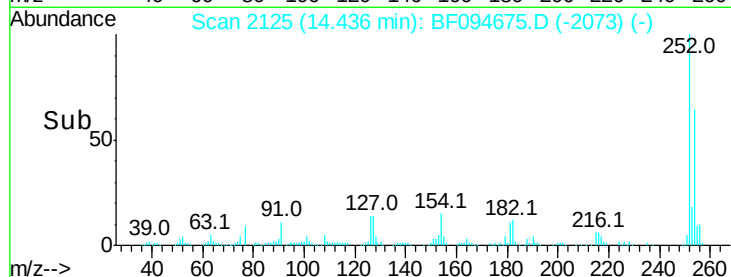
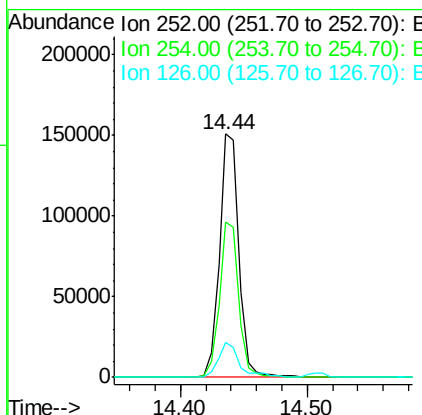
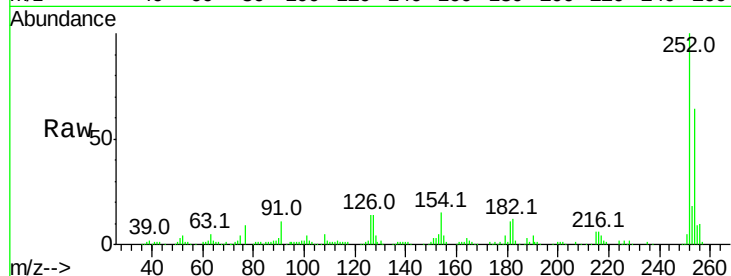
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
252	100	162358		
254	63.9	51.5	77.3	
126	14.4	15.8	23.8	

Manual Integrations
 APPROVED

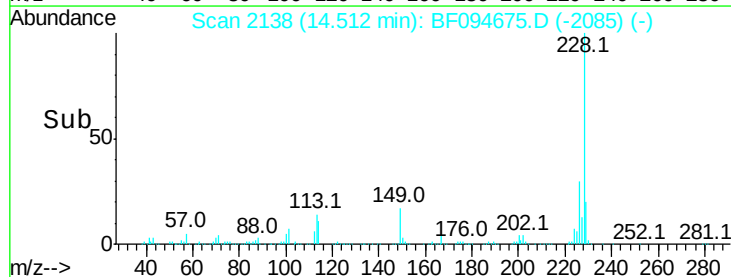
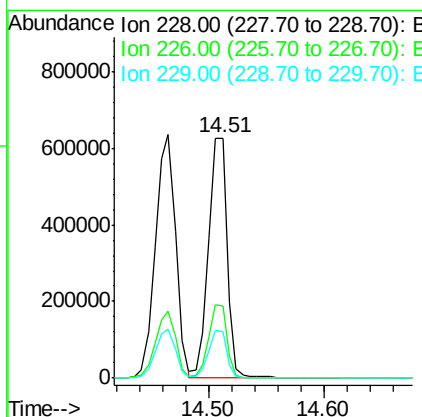
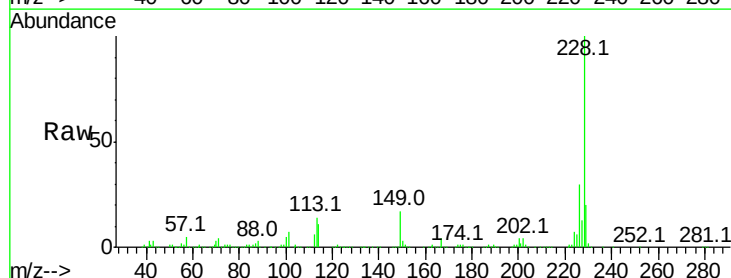
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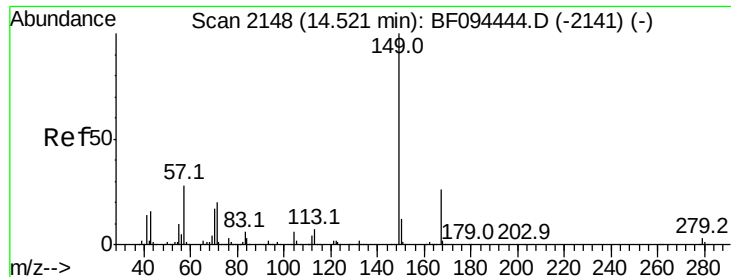
4/28/2017 3:00:49 PM



#82
 Chrysene
 Concen: 44.94 ng
 RT: 14.51 min Scan# 2138
 Delta R.T. 0.01 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	708889		
226	30.0	24.9	37.3	
229	19.6	15.8	23.6	





#83
 Bis(2-ethylhexyl)phthalate
 Concen: 54.75 ng
 RT: 14.52 min Scan# 2140
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

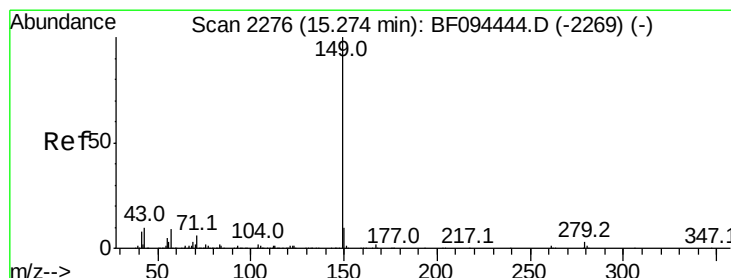
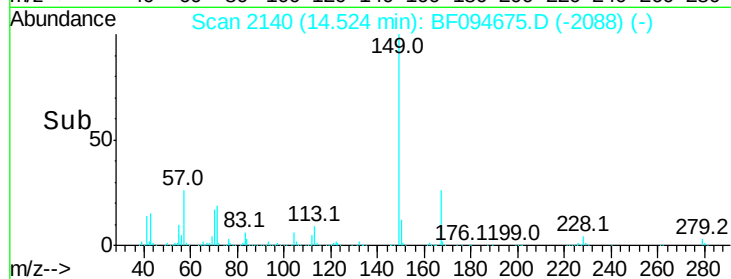
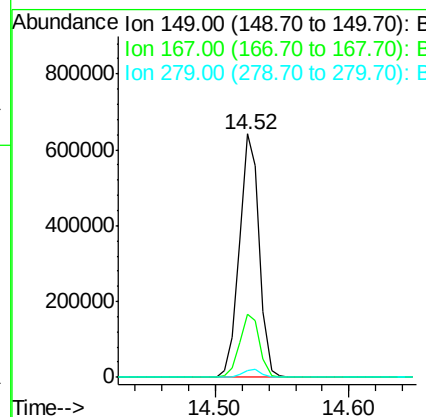
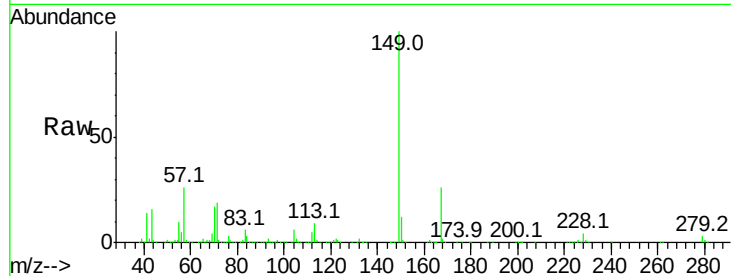
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
149	100	668417		
167	25.9		21.0	31.4
279	2.8		1.9	2.9

Manual Integrations
 APPROVED

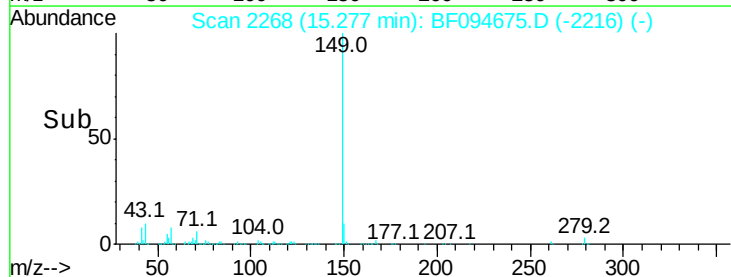
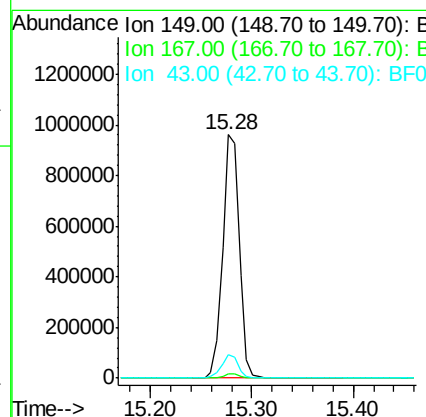
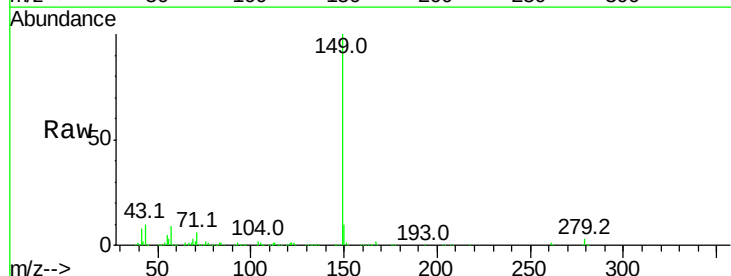
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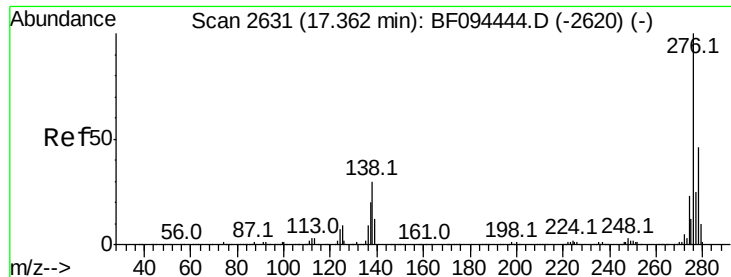
4/28/2017 3:00:49 PM



#84
 Di-n-octyl phthalate
 Concen: 53.42 ng
 RT: 15.28 min Scan# 2268
 Delta R.T. 0.00 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	1093971		
167	1.6		1.2	1.8
43	9.2		8.5	12.7





#85
Indeno(1,2,3-cd)pyrene
Concen: 40.57 ng
RT: 17.39 min Scan# 2627
Delta R.T. 0.03 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

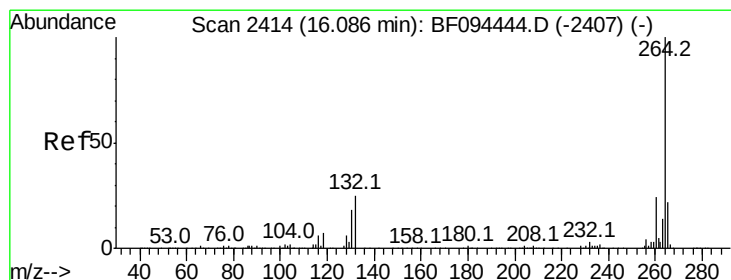
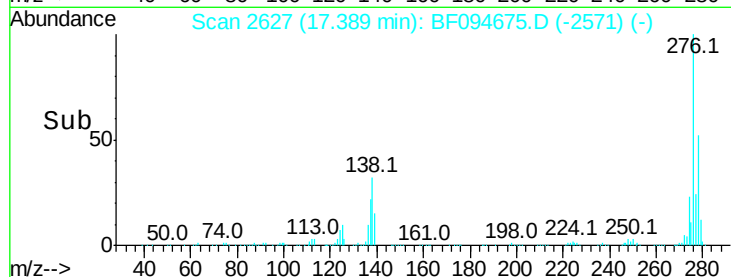
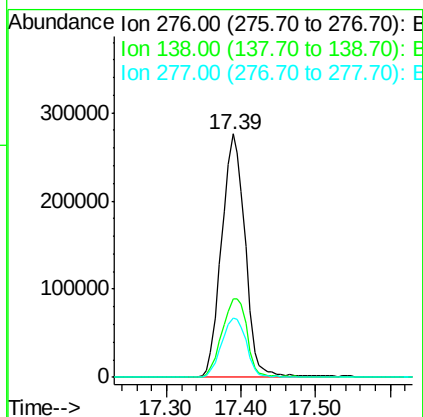
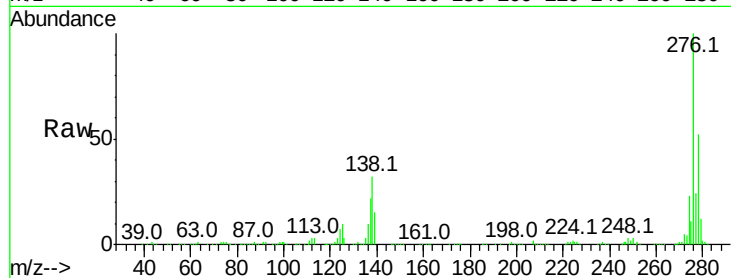
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	34.3	27.8	41.6	
277	25.8	20.2	30.4	

Manual Integrations
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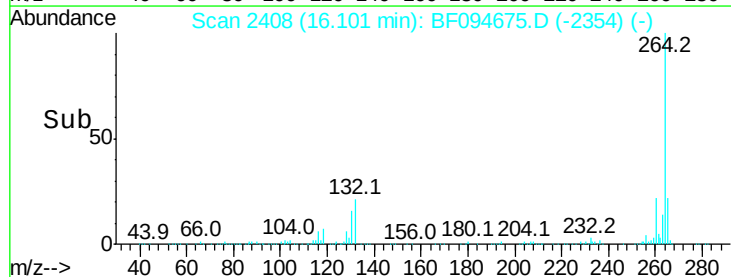
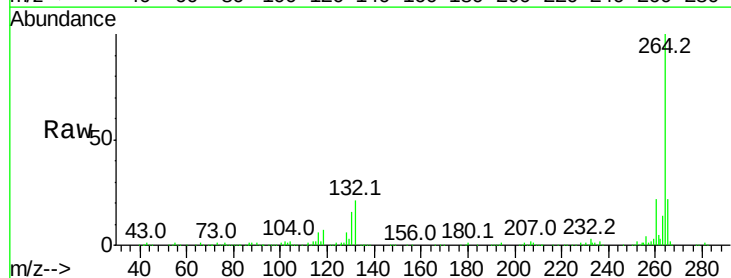
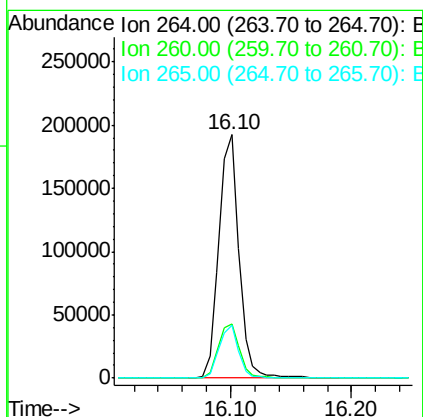
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4/28/2017 3:00:49 PM

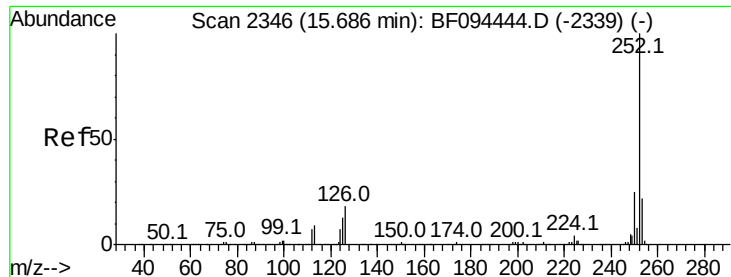
4/28/2017 3:00:49 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 16.10 min Scan# 2408
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	22.5	19.5	29.3	
265	21.9	17.2	25.8	





#87

Benzo(b)fluoranthene

Concen: 44.21 ng

RT: 15.70 min Scan# 2340

Delta R.T. 0.01 min

Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Instrument :

BNA_F

ClientSampleId :

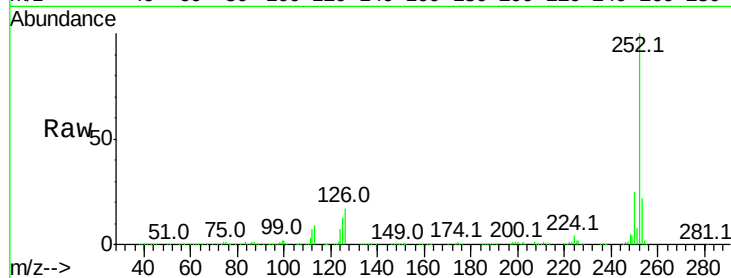
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	252	Resp:	599370
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.1	27.1
125	13.3	9.8	14.8

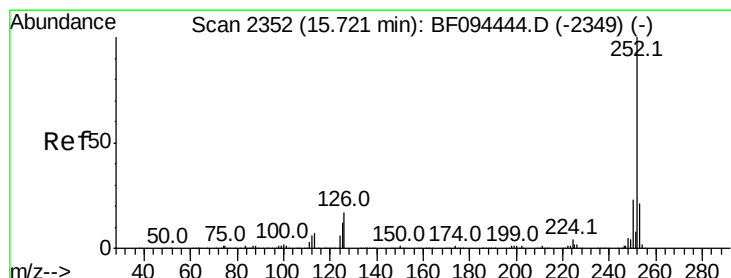
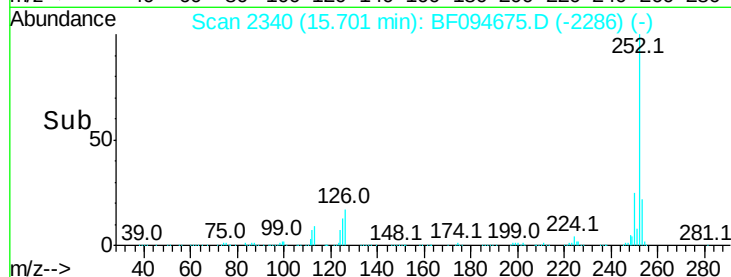
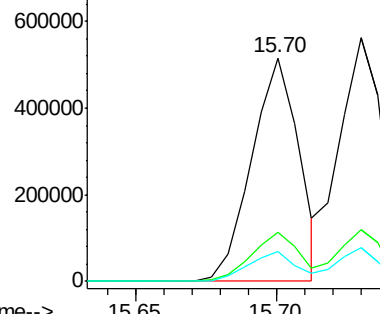
Manual Integrations
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 47.52 ng

RT: 15.73 min Scan# 2345

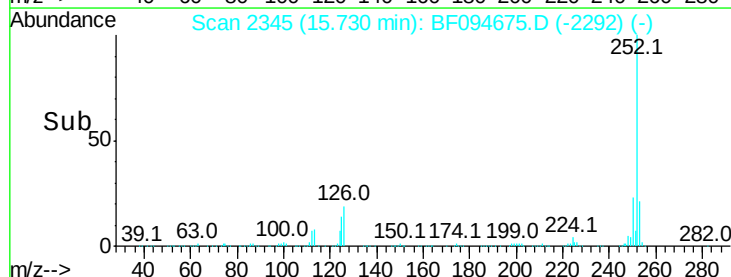
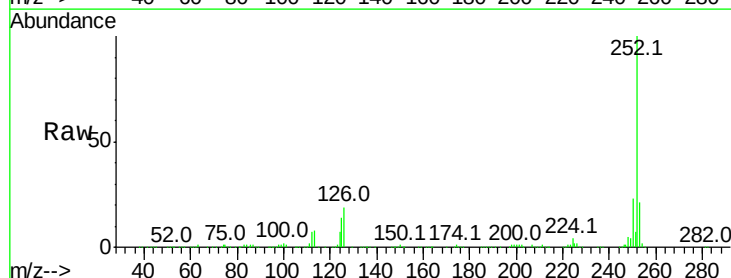
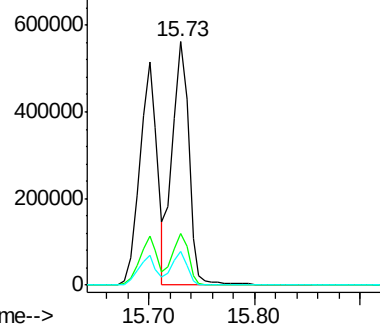
Delta R.T. 0.01 min

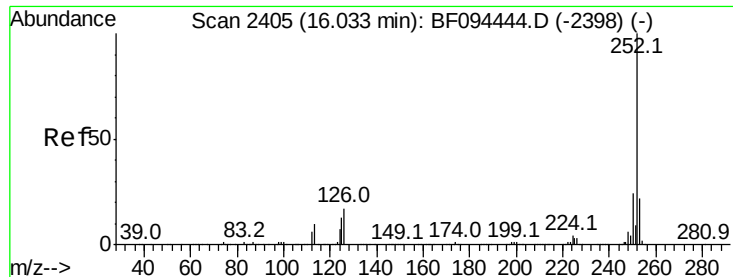
Lab File: BF094675.D

Acq: 27 Apr 2017 20:36

Tgt Ion:	252	Resp:	609728
Ion Ratio	Lower	Upper	
252	100		
253	21.1	18.4	27.6
125	13.9	13.1	19.7

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





#89
Benzo(a)pyrene
Concen: 44.13 ng
RT: 16.05 min Scan# 2399
Delta R.T. 0.01 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

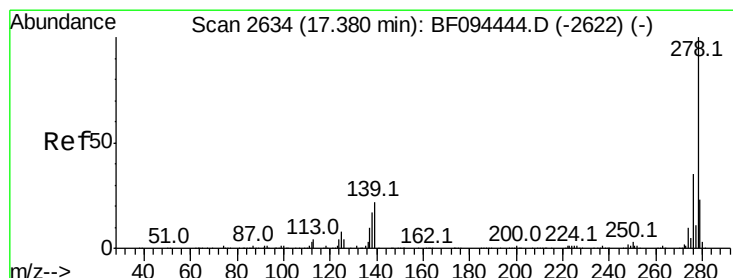
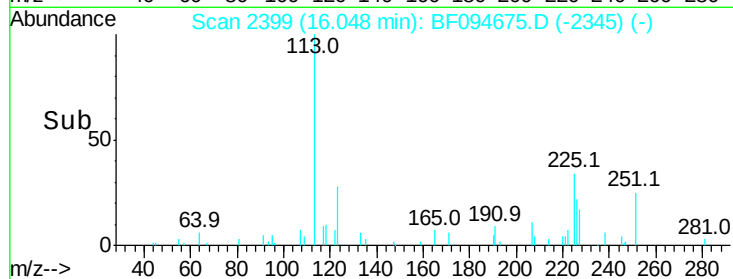
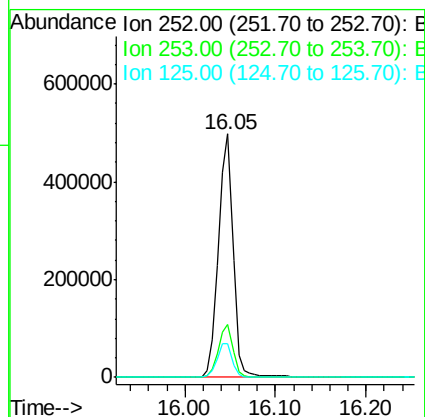
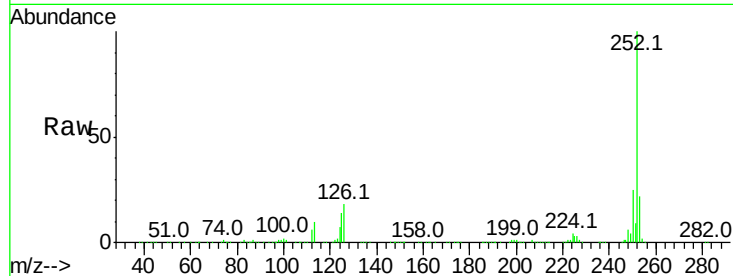
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	13.7	11.0	16.4

Manual Integrations
APPROVED

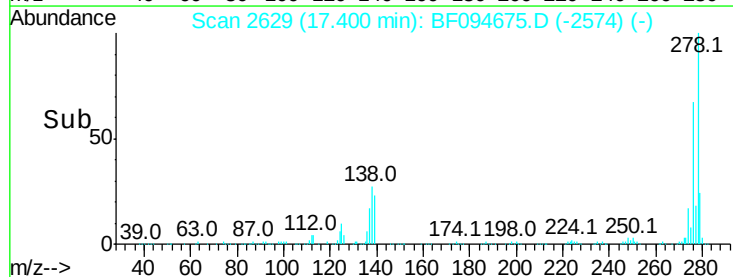
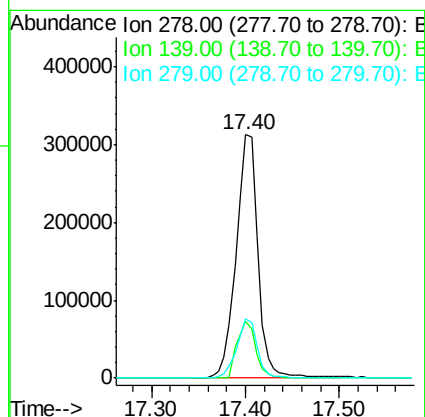
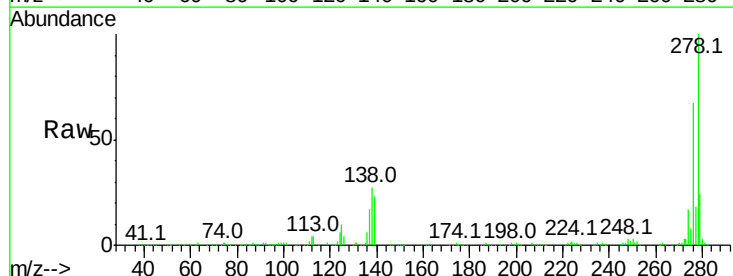
mohammad
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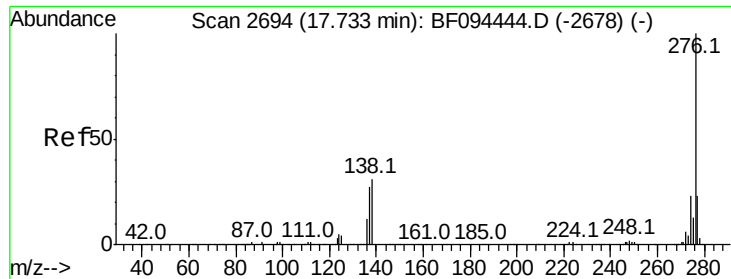
4/28/2017 3:00:49 PM



#90
Dibenzo(a,h)anthracene
Concen: 48.45 ng
RT: 17.40 min Scan# 2629
Delta R.T. 0.02 min
Lab File: BF094675.D
Acq: 27 Apr 2017 20:36

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.2	16.6	24.8
279	24.1	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 47.69 ng
 RT: 17.77 min Scan# 2691
 Delta R.T. 0.03 min
 Lab File: BF094675.D
 Acq: 27 Apr 2017 20:36

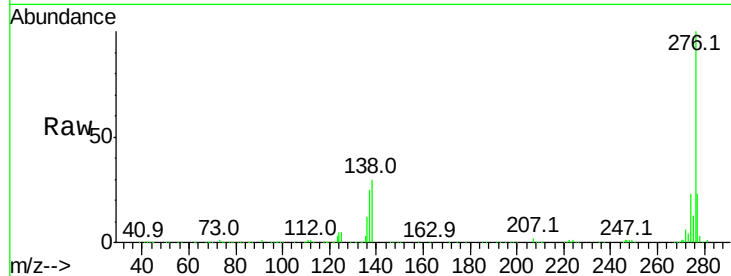
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS-DRUMS(COMP)M

Tot Ion:	276	Resp:	508461
Ion Ratio		Lower	Upper
276	100		
277	23.0	18.6	28.0
138	29.6	25.4	38.0

Manual Integrations
 APPROVED

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

