

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100516\
 Data File : BF090383.D
 Acq On : 5 Oct 2016 16:03
 Operator : UM/SJ
 Sample : H4818-02
 Misc : LOO 20PPM
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Manual Integrations
 APPROVED

SOHIL
 10/6/2016 5:27:29 PM

Quant Time: Oct 06 01:19:42 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF100516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 05 14:57:00 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	248595	20.00	ng	0.00
21) Naphthalene-d8	8.29	136	1086023	20.00	ng	0.00
38) Acenaphthene-d10	10.05	164	533081	20.00	ng	0.00
63) Phenanthrene-d10	11.55	188	837810	20.00	ng	0.00
75) Chrysene-d12	14.19	240	681978	20.00	ng	-0.01
86) Perylene-d12	15.70	264	496496	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	2096631	125.87	ng	0.01
7) Phenol-d6	6.62	99	2795697	128.15	ng	0.00
23) Nitrobenzene-d5	7.56	82	2101165	94.11	ng	-0.01
41) 2,4,6-Tribromophenol	10.85	330	627963	144.87	ng	0.00
44) 2-Fluorobiphenyl	9.38	172	3238405	101.22	ng	0.00
78) Terphenyl-d14	13.14	244	2684407	88.49	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.83	88	161737	19.70	ng	# 94
3) Pyridine	3.59	79	473178m	20.67	ng	
4) n-Nitrosodimethylamine	3.51	42	182571	19.32	ng	# 67
6) Aniline	6.66	93	579782	19.24	ng	98
8) 2-Chlorophenol	6.78	128	349540	19.07	ng	83
9) Benzaldehyde	6.54	77	212060	19.23	ng	90
10) Phenol	6.63	94	394840	15.57	ng	# 76
11) bis(2-Chloroethyl)ether	6.74	93	400781	20.64	ng	99
12) 1,3-Dichlorobenzene	6.94	146	380204m	20.81	ng	
13) 1,4-Dichlorobenzene	7.02	146	364727	19.65	ng	95
14) 1,2-Dichlorobenzene	7.17	146	345395	19.32	ng	96
15) Benzyl Alcohol	7.14	79	380714	22.96	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.27	45	672247	20.41	ng	96
17) 2-Methylphenol	7.25	107	311278	20.65	ng	97
18) Hexachloroethane	7.51	117	136940	18.72	ng	# 87
19) n-Nitroso-di-n-propylamine	7.41	70	328267	20.52	ng	# 85
20) 3+4-Methylphenols	7.40	107	404747	20.74	ng	# 88
22) Acetophenone	7.41	105	523156	20.34	ng	# 88
24) Nitrobenzene	7.58	77	485973	21.93	ng	99
25) Isophorone	7.82	82	815126	19.97	ng	99
26) 2-Nitrophenol	7.90	139	187893	19.70	ng	# 88
27) 2,4-Dimethylphenol	7.94	122	376567	20.30	ng	98
28) bis(2-Chloroethoxy)methane	8.03	93	459110	19.02	ng	# 96
29) 2,4-Dichlorophenol	8.14	162	278815	19.77	ng	94
30) 1,2,4-Trichlorobenzene	8.23	180	282946	19.46	ng	97
31) Naphthalene	8.31	128	1065810	20.34	ng	97
32) Benzoic acid	8.03	122	244356	18.94	ng	94
33) 4-Chloroaniline	8.36	127	407665	18.82	ng	# 90
34) Hexachlorobutadiene	8.43	225	140759	17.33	ng	99
35) Caprolactam	8.70	113	86624	18.27	ng	# 88
36) 4-Chloro-3-methylphenol	8.83	107	310834	17.60	ng	92
37) 2-Methylnaphthalene	9.00	142	612095	19.30	ng	100
39) 1,2,4,5-Tetrachlorobenzene	9.17	216	266756	18.98	ng	# 96
40) Hexachlorocyclopentadiene	9.16	237	137526	17.85	ng	99

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100516\
 Data File : BF090383.D
 Acq On : 5 Oct 2016 16:03
 Operator : UM/SJ
 Sample : H4818-02
 Misc : LOQ 20PPM
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

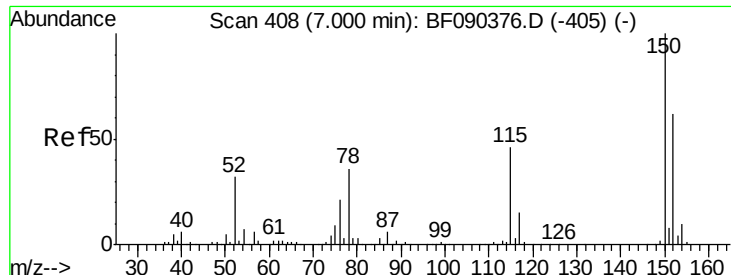
Manual Integrations
 APPROVED

SOHIL
 10/6/2016 5:27:29 PM

Quant Time: Oct 06 01:19:42 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF100516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 05 14:57:00 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.29	196	184764	19.05	nq	100
43) 2,4,5-Trichlorophenol	9.32	196	181780	19.82	nq	95
45) 1,1'-Biphenyl	9.47	154	807141	20.43	nq	93
46) 2-Chloronaphthalene	9.49	162	562778	19.28	nq	97
47) 2-Nitroaniline	9.58	65	238341	20.70	nq	# 86
48) Acenaphthylene	9.91	152	1019190	21.16	nq	98
49) Dimethylphthalate	9.77	163	684777	20.06	nq	98
50) 2,6-Dinitrotoluene	9.82	165	135220	17.84	nq	# 82
51) Acenaphthene	10.09	154	628059	20.92	nq	98
52) 3-Nitroaniline	9.99	138	177018	19.99	nq	93
53) 2,4-Dinitrophenol	10.10	184	66034	19.54	nq	# 52
54) Dibenzofuran	10.26	168	796538	20.50	nq	96
55) 4-Nitrophenol	10.14	139	148360	19.15	nq	90
56) 2,4-Dinitrotoluene	10.22	165	187448	18.58	nq	# 1
57) Fluorene	10.60	166	677032	20.73	nq	99
58) 2,3,4,6-Tetrachlorophenol	10.37	232	127925	18.68	nq	# 73
59) Diethylphthalate	10.47	149	731592	20.71	nq	# 92
60) 4-Chlorophenyl-phenylether	10.59	204	280828	18.91	nq	# 81
61) 4-Nitroaniline	10.61	138	183777	20.60	nq	86
62) Azobenzene	10.75	77	859435	21.06	nq	87
64) 4,6-Dinitro-2-methylphenol	10.63	198	80216	18.01	nq	87
65) n-Nitrosodiphenylamine	10.71	169	574141	20.45	nq	98
66) 4-Bromophenyl-phenylether	11.09	248	152218	18.53	nq	# 82
67) Hexachlorobenzene	11.15	284	172229	18.83	nq	# 66
68) Atrazine	11.23	200	129457	18.70	nq	96
69) Pentachlorophenol	11.34	266	110758	20.34	nq	98
70) Phenanthrene	11.57	178	885787	20.65	nq	96
71) Anthracene	11.62	178	913939	20.86	nq	97
72) Carbazole	11.77	167	810571	19.91	nq	98
73) Di-n-butylphthalate	12.11	149	1122773	22.67	nq	# 96
74) Fluoranthene	12.76	202	918465	21.83	nq	96
76) Benzidine	12.88	184	353679	19.72	nq	98
77) Pyrene	12.99	202	906042	19.92	nq	98
79) Butylbenzylphthalate	13.61	149	444659	19.06	nq	# 69
80) Benzo(a)anthracene	14.18	228	810615	21.18	nq	97
81) 3,3'-Dichlorobenzidine	14.14	252	288521	20.80	nq	# 98
82) Chrysene	14.22	228	762684	21.66	nq	98
83) Bis(2-ethylhexyl)phthalate	14.18	149	690388	20.82	nq	99
84) Di-n-octyl phthalate	14.80	149	1092101	22.21	nq	95
85) Indeno(1,2,3-cd)pyrene	17.22	276	488373	19.45	nq	93
87) Benzo(b)fluoranthene	15.25	252	589194	18.63	nq	# 94
88) Benzo(k)fluoranthene	15.29	252	622065m	20.94	nq	
89) Benzo(a)pyrene	15.63	252	529477	19.42	nq	# 93
90) Dibenzo(a,h)anthracene	17.23	278	407338	17.56	nq	# 92
91) Benzo(g,h,i)perylene	17.66	276	380974	17.12	nq	# 92

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.00 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:152 Resp: 248595

Ion Ratio Lower Upper

152 100

150 160.1 124.6 186.8

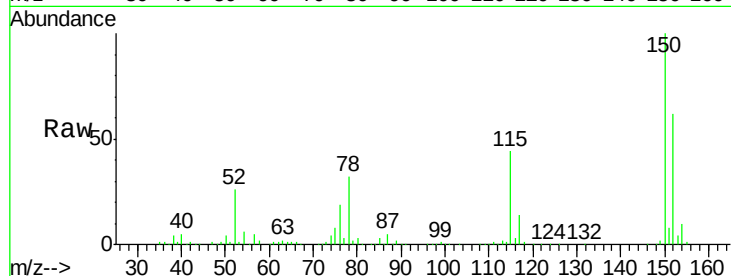
115 70.2 46.2 69.4#

Manual Integrations

APPROVED

SOHIL

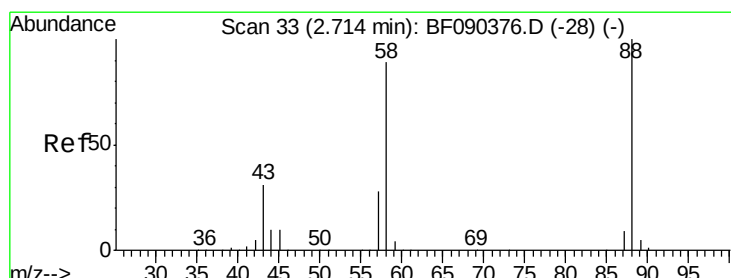
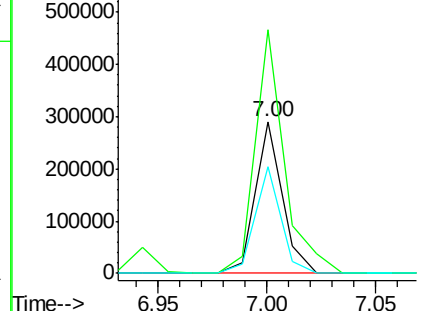
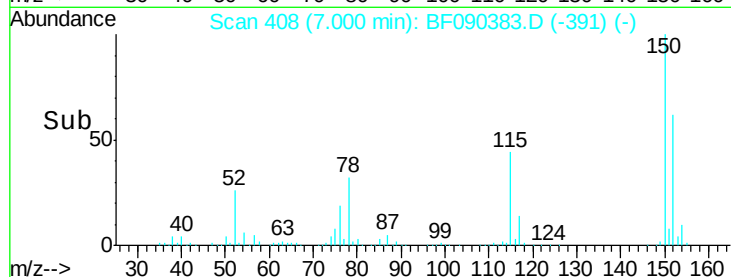
10/6/2016 5:27:29 PM



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: 19.70 ng

RT: 2.83 min Scan# 43

Delta R.T. 0.11 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

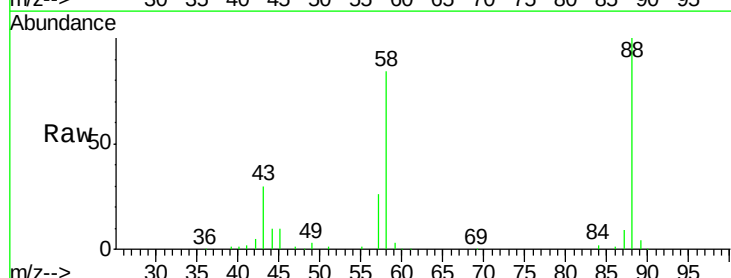
Tgt Ion: 88 Resp: 161737

Ion Ratio Lower Upper

88 100

58 86.1 71.2 106.8

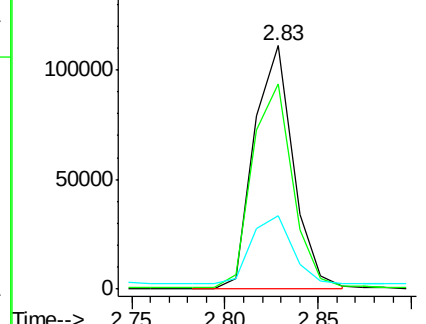
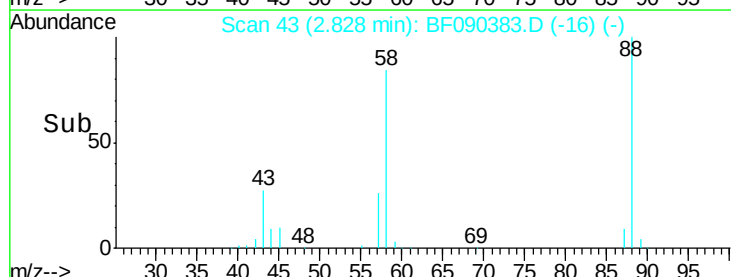
43 28.6 29.8 44.6#

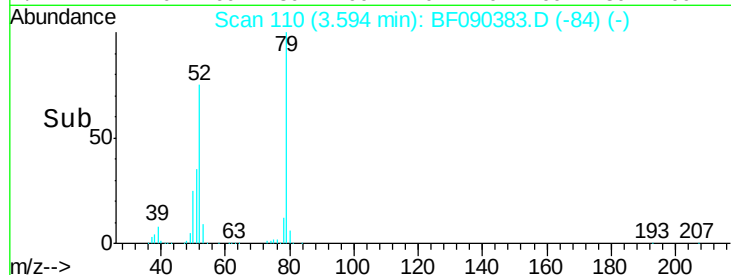
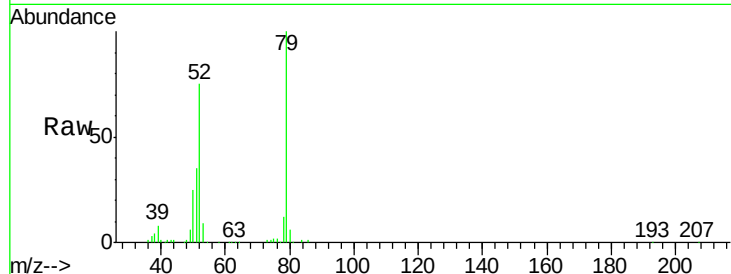
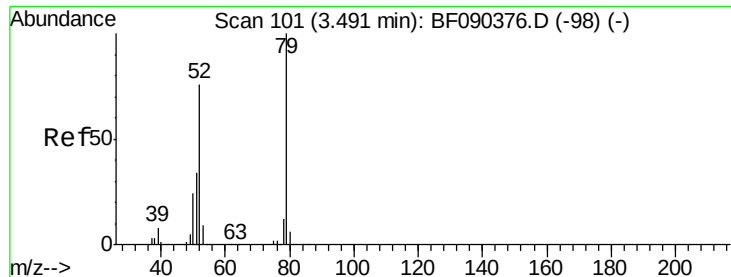


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





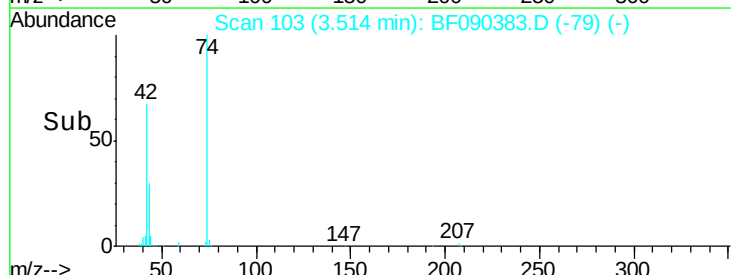
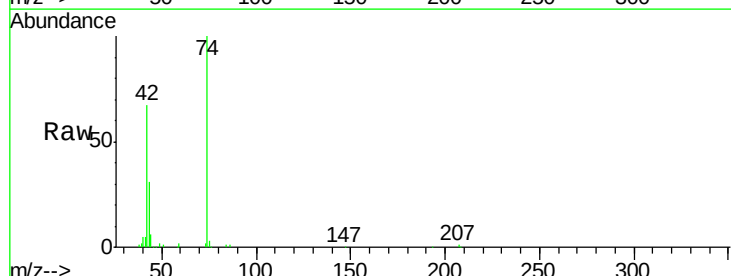
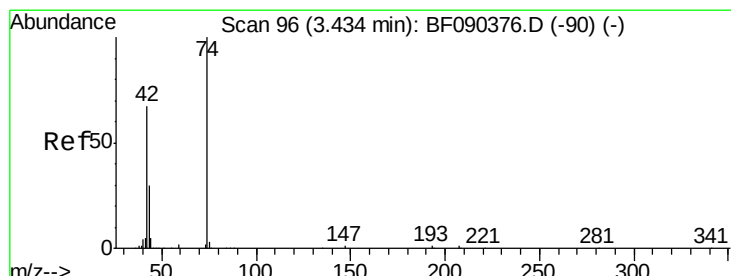
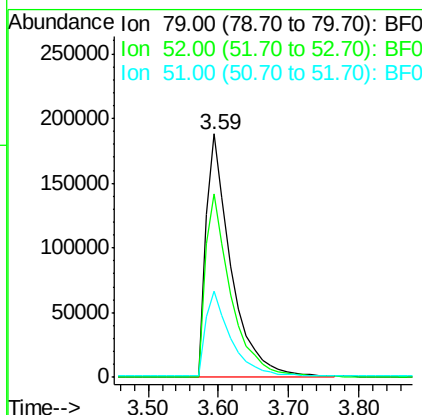
#3
 Pvridine
 Concen: 20.67 ng/ml
 RT: 3.59 min Scan# 110
 Delta R.T. 0.10 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tot Ion:	79	Resp:	473178
Ion Ratio	Lower	Upper	
79	100		
52	75.4	71.3	106.9
51	35.5	34.5	51.7

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

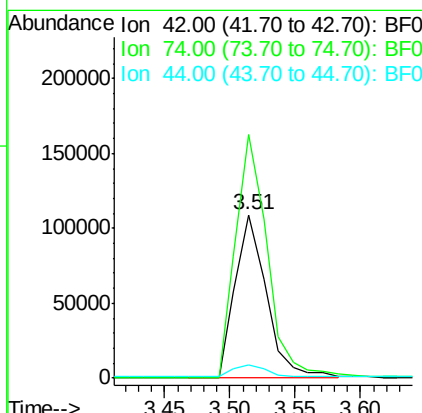
Manual Integrations
 APPROVED

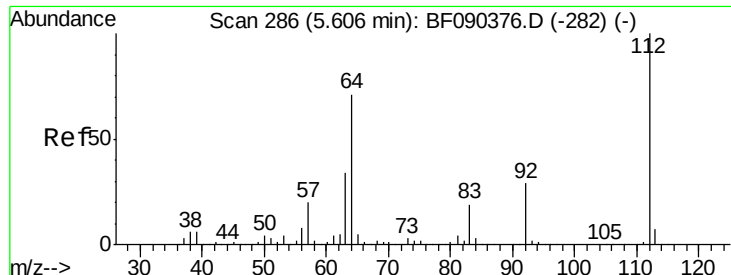
SOHIL
 10/6/2016 5:27:29 PM



#4
 n-Nitrosodimethylamine
 Concen: 19.32 ng/ml
 RT: 3.51 min Scan# 103
 Delta R.T. 0.08 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion:	42	Resp:	182571
Ion Ratio	Lower	Upper	
42	100		
74	148.9	88.9	133.3#
44	8.3	6.5	9.7





#5

2-Fluorophenol

Concen: 125.87 ng

RT: 5.62 min Scan# 287

Delta R.T. 0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion: 112 Resp: 2096631

Ion Ratio Lower Upper

112 100

64 75.2 57.9 86.9

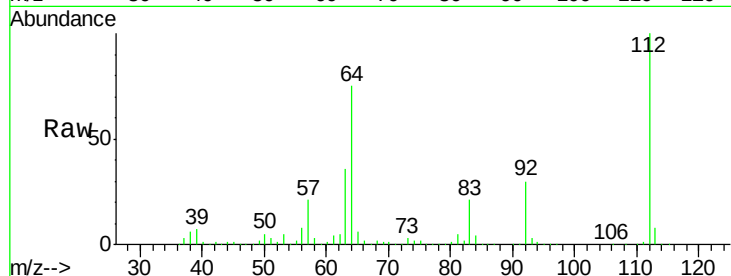
63 36.4 29.6 44.4

Manual Integrations

APPROVED

SOHIL

10/6/2016 5:27:29 PM



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

2000000

1500000

1000000

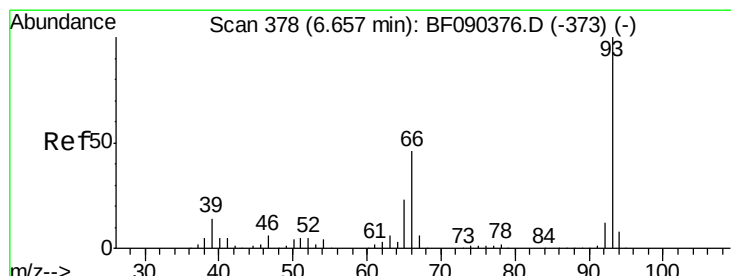
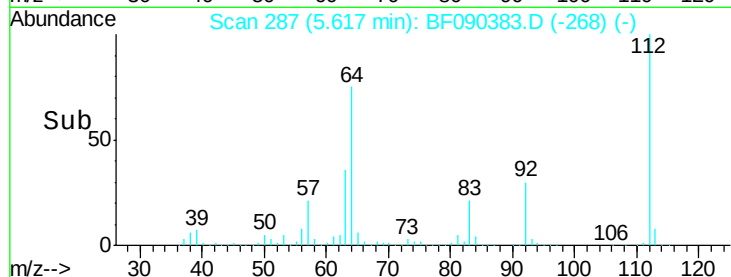
500000

0

5.62

5.50 5.60 5.70

Time-->



#6

Aniline

Concen: 19.24 ng

RT: 6.66 min Scan# 378

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

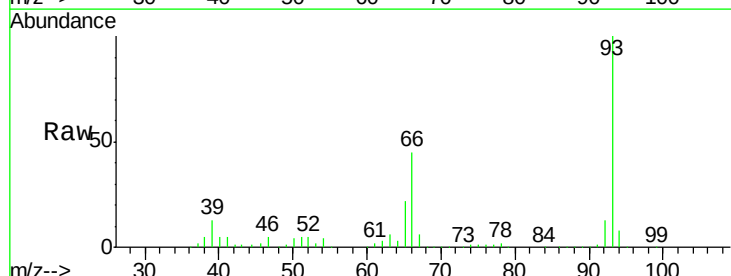
Tgt Ion: 93 Resp: 579782

Ion Ratio Lower Upper

93 100

66 45.0 34.5 51.7

65 22.3 18.2 27.2



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

600000

400000

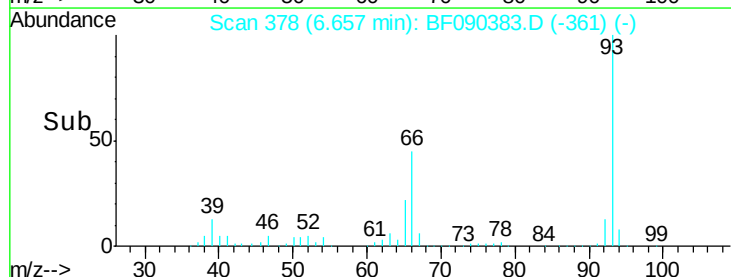
200000

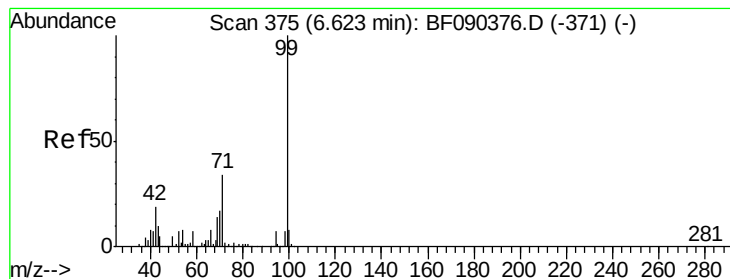
0

6.66

6.60 6.65 6.70

Time-->





#7

Phenol-d6

Concen: 128.15 ng

RT: 6.62 min Scan# 375

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion: 99 Resp: 2795697

Ion Ratio Lower Upper

99 100

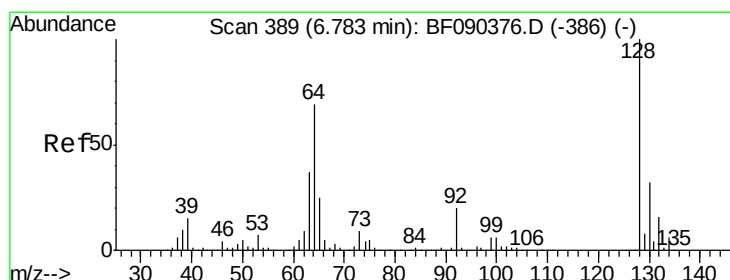
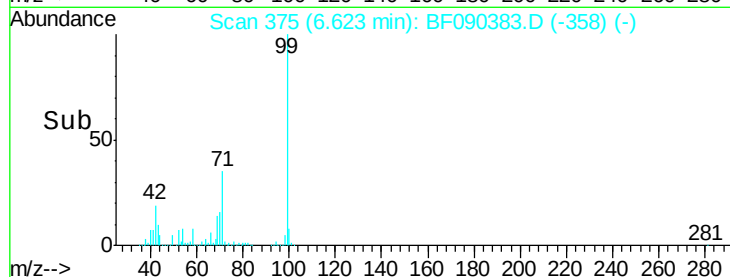
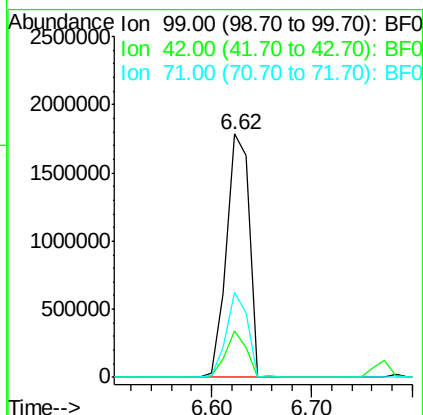
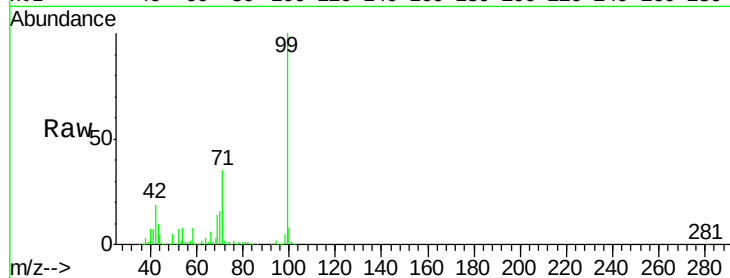
42 18.9 20.0 30.0#

71 35.1 27.9 41.9

Manual Integrations
APPROVED

SOHIL

10/6/2016 5:27:29 PM



#8

2-Chlorophenol

Concen: 19.07 ng

RT: 6.78 min Scan# 389

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

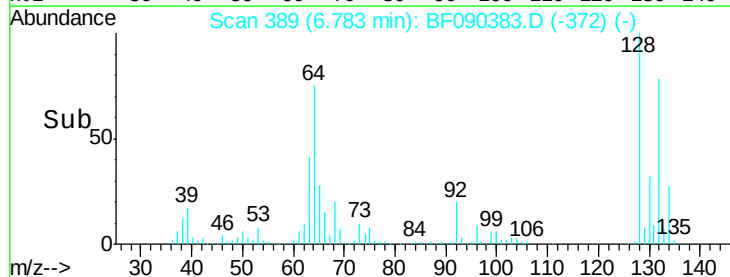
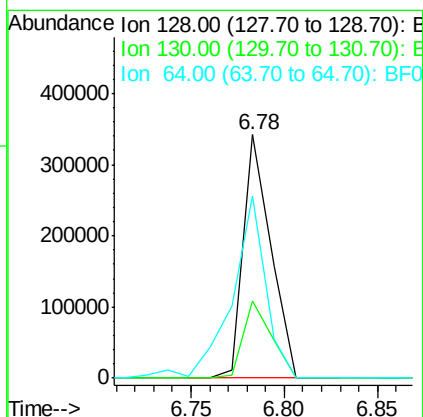
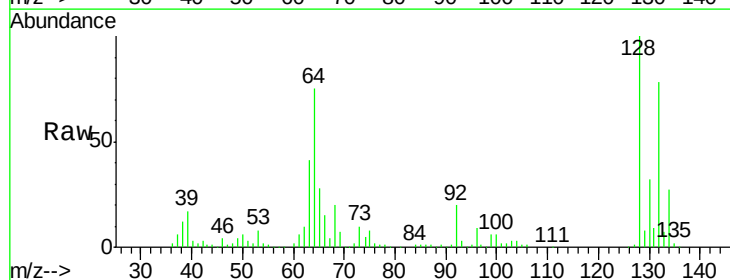
Tgt Ion: 128 Resp: 349540

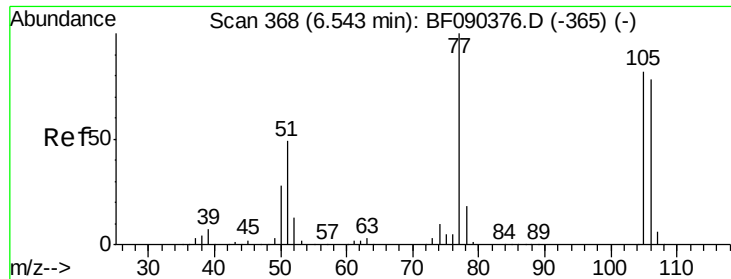
Ion Ratio Lower Upper

128 100

130 31.6 13.3 53.3

64 74.8 36.0 76.0





#9

Benzaldehyde

Concen: 19.23 ng

RT: 6.54 min Scan# 368

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

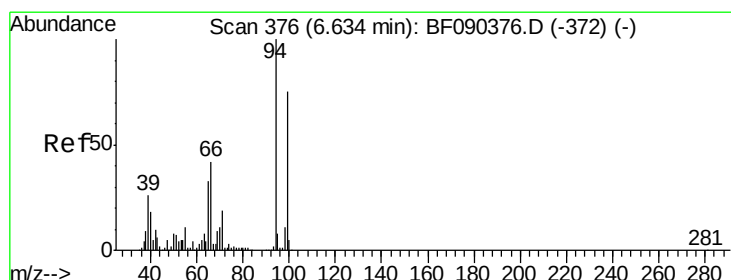
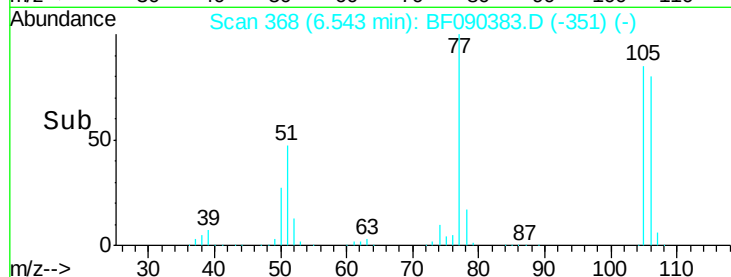
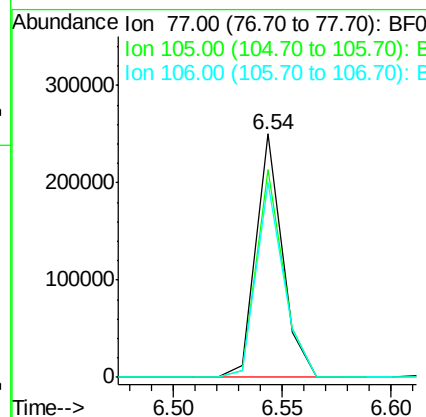
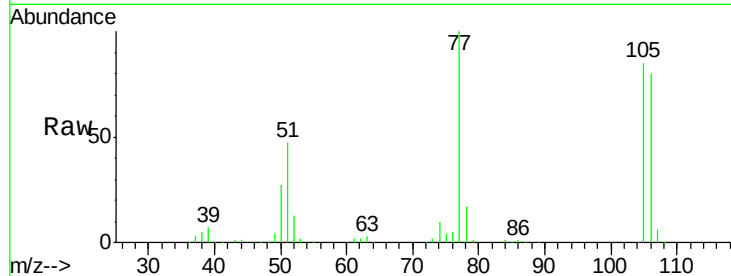
ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
77	100		
105	85.1	73.1	113.1
106	80.0	70.2	110.2

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



#10

Phenol

Concen: 15.57 ng

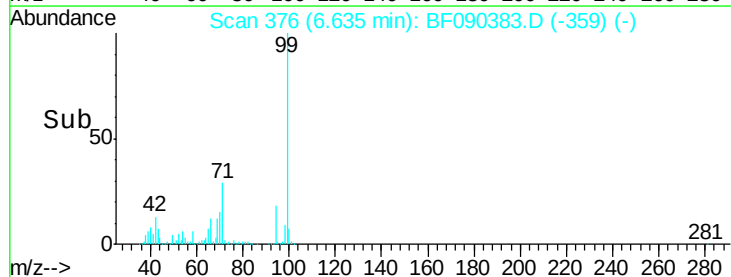
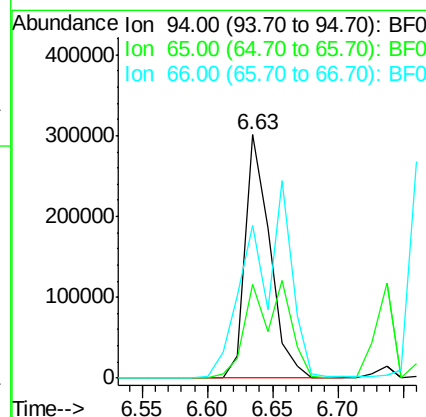
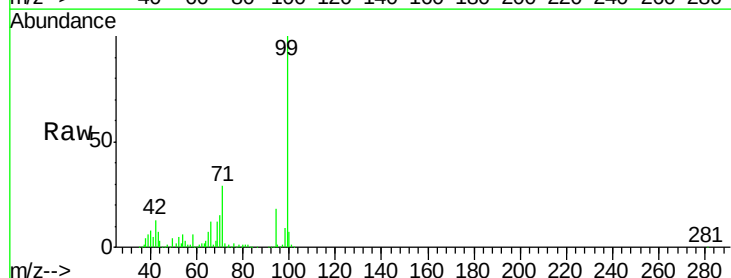
RT: 6.63 min Scan# 376

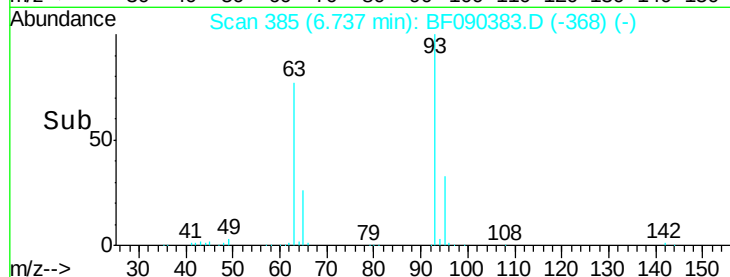
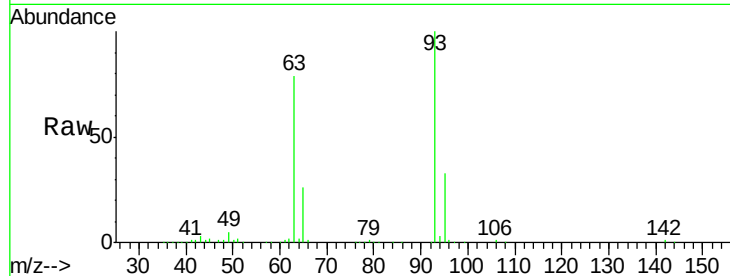
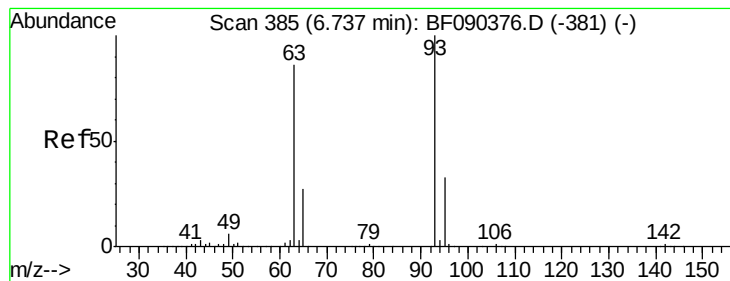
Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
94	100		
65	38.6	13.3	53.3
66	62.7	20.4	60.4





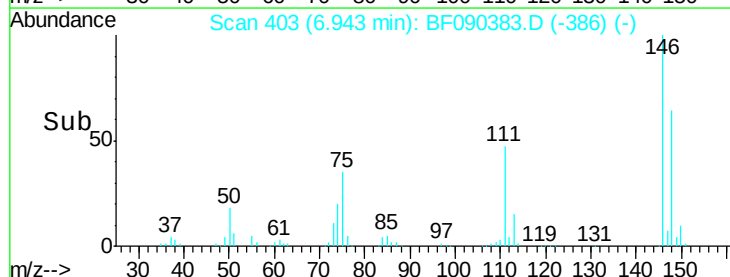
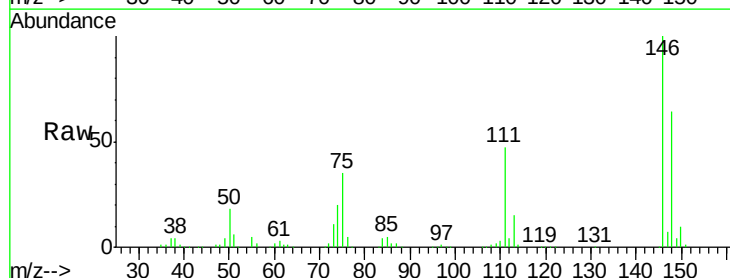
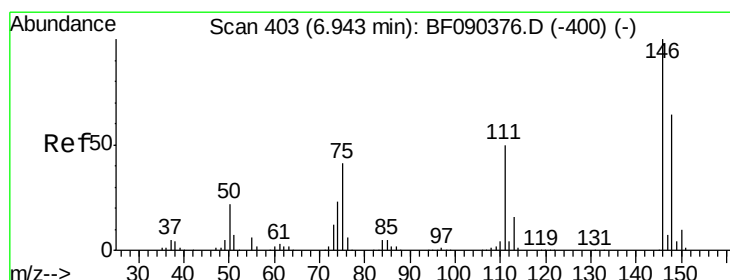
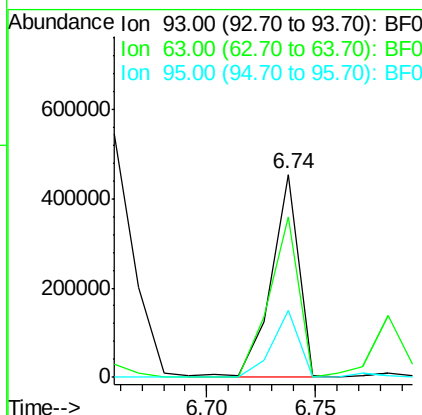
#11
bis(2-Chloroethyl)ether
Concen: 20.64 ng
RT: 6.74 min Scan# 385
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tot Ion	Ratio	Lower	Upper
93	100		
63	78.8	59.7	99.7
95	32.7	14.0	54.0

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

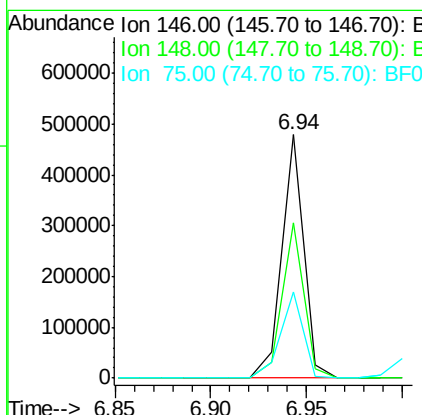
Manual Integrations
APPROVED

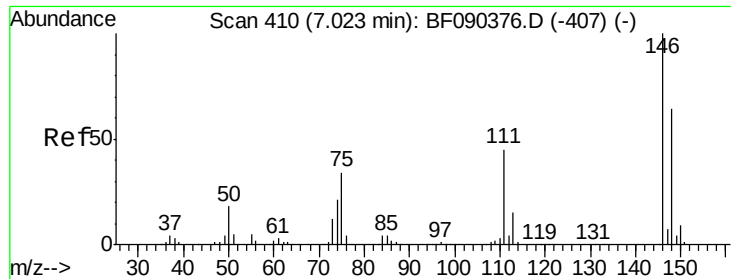
SOHIL
10/6/2016 5:27:29 PM



#12
1,3-Dichlorobenzene
Concen: 20.81 ng m
RT: 6.94 min Scan# 403
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.0	52.2	78.4
75	35.2	21.4	32.2





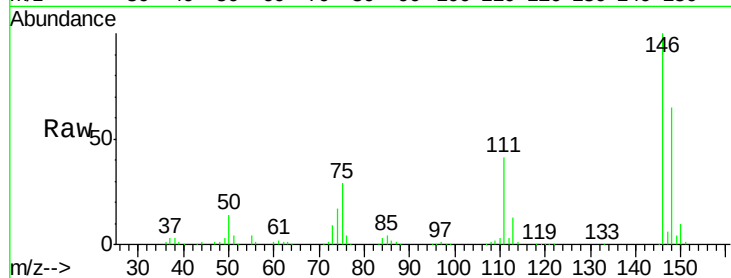
#13
1,4-Dichlorobenzene
Concen: 19.65 ng
RT: 7.02 min Scan# 410
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

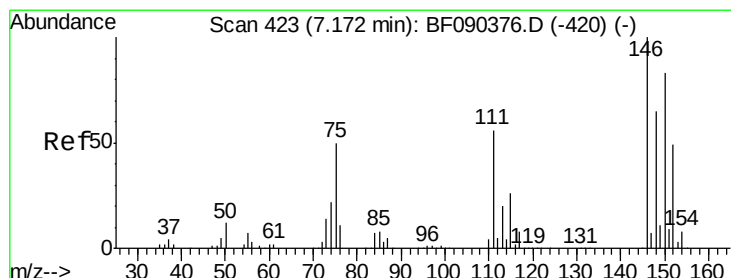
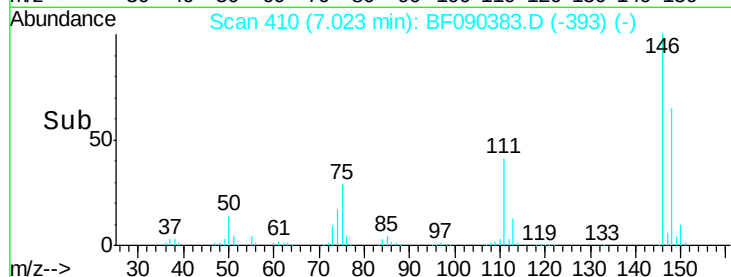
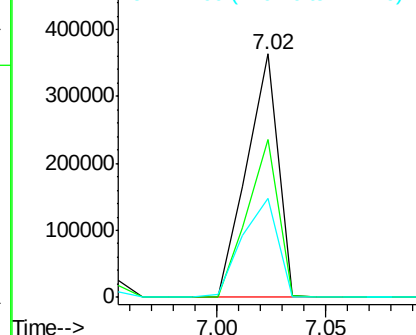
Tot Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.1	76.7
111	40.8	37.8	56.6

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM

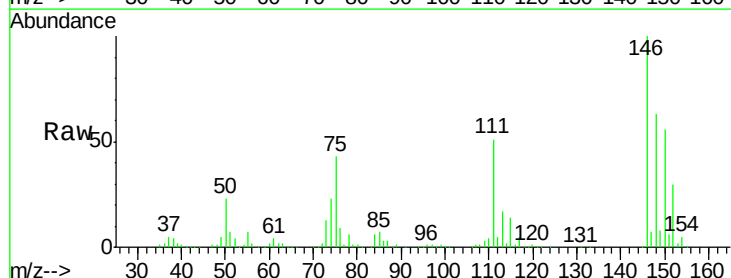


Abundance Ion 146.00 (145.70 to 146.70): E
Ion 148.00 (147.70 to 148.70): E
Ion 111.00 (110.70 to 111.70): E

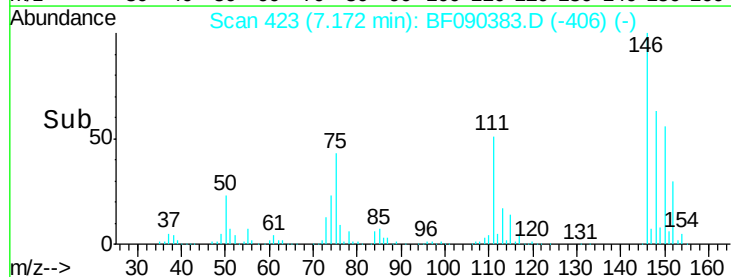
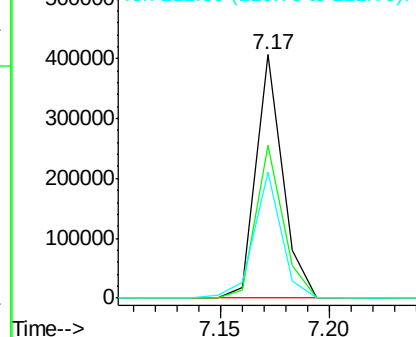


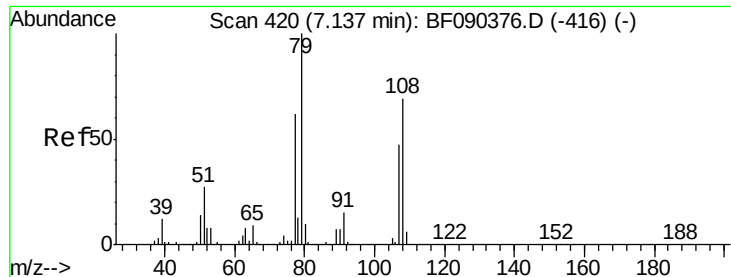
#14
1,2-Dichlorobenzene
Concen: 19.32 ng
RT: 7.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.8	52.3	78.5
111	51.5	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: 22.96 ng

RT: 7.14 min Scan# 420

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

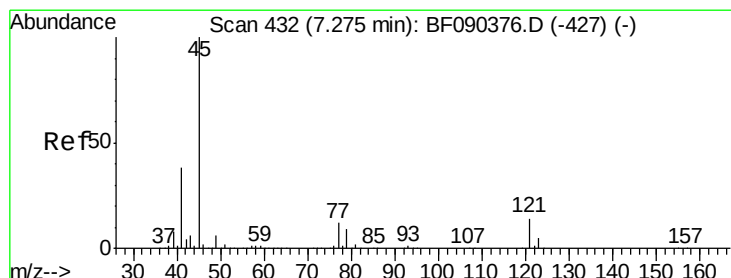
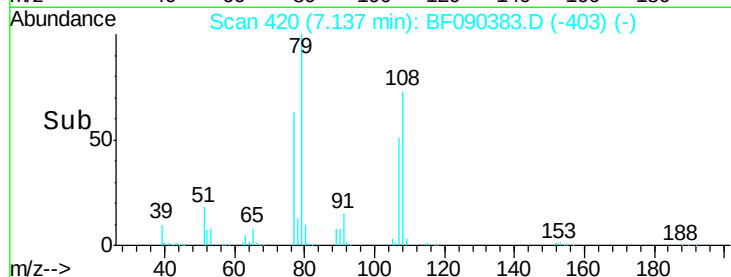
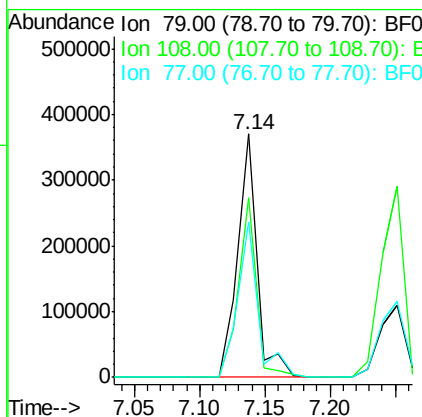
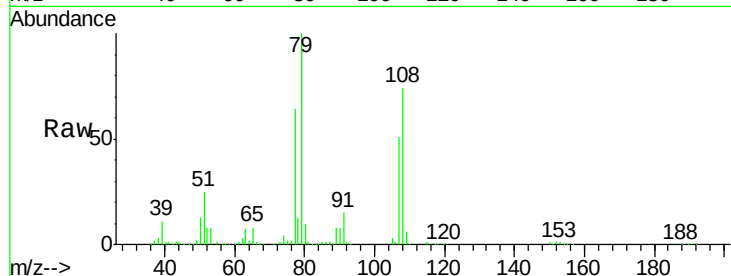
ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:	79	Resp:	380714
Ion Ratio	Lower	Upper	
79	100		
108	73.9	60.9	91.3
77	63.7	51.5	77.3

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



#16

2,2'-oxybis(1-Chloropropane)

Concen: 20.41 ng

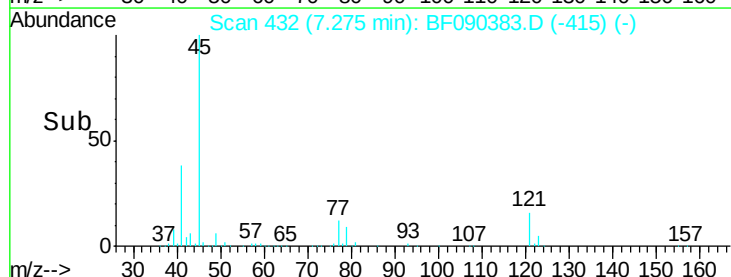
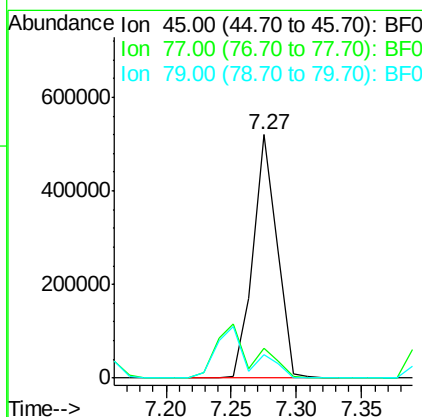
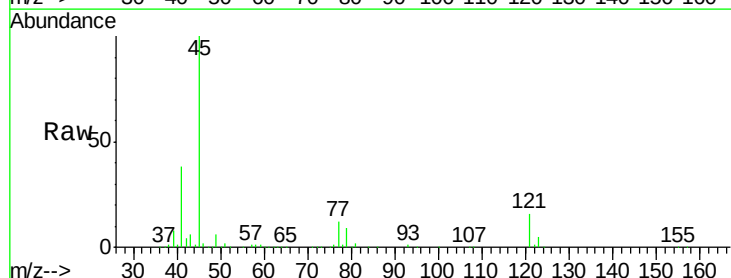
RT: 7.27 min Scan# 432

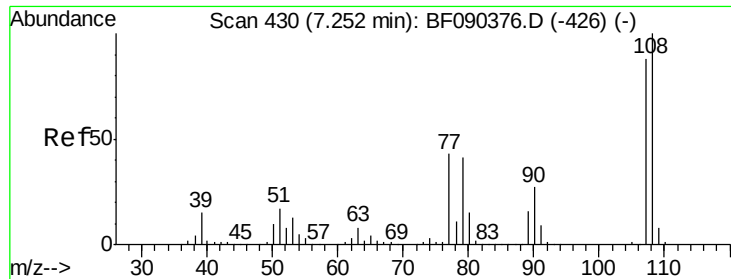
Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Tgt Ion:	45	Resp:	672247
Ion Ratio	Lower	Upper	
45	100		
77	12.2	0.0	30.8
79	9.4	0.0	28.2





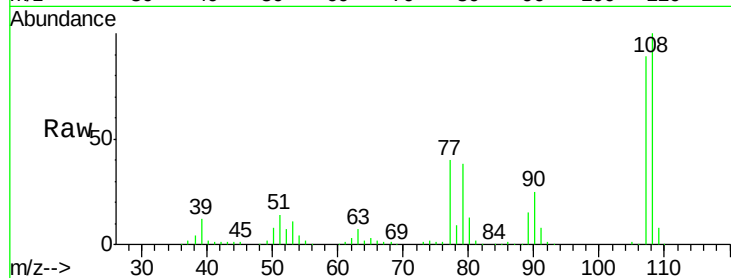
#17
2-Methylphenol
Concen: 20.65 ng
RT: 7.25 min Scan# 430
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

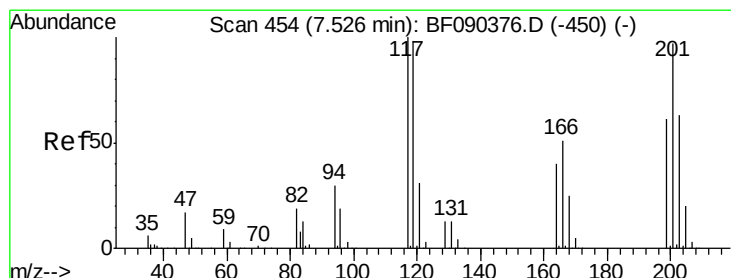
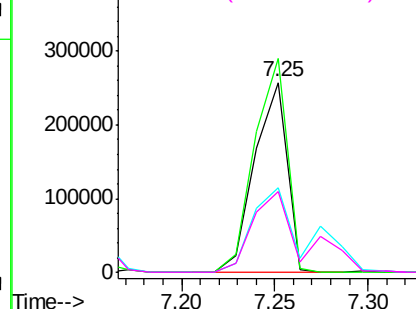
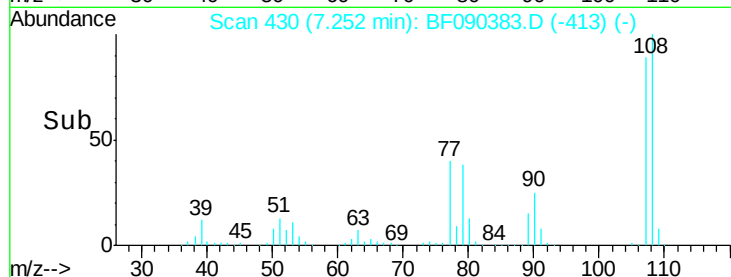
Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	112.4	90.9	136.3	
77	44.5	38.2	57.4	
79	42.3	37.0	55.4	

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM

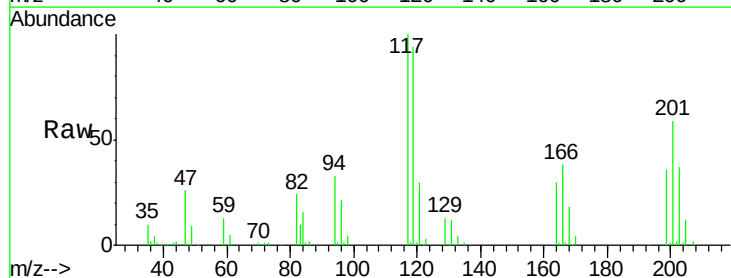


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF0
Ion 79.00 (78.70 to 79.70): BF0

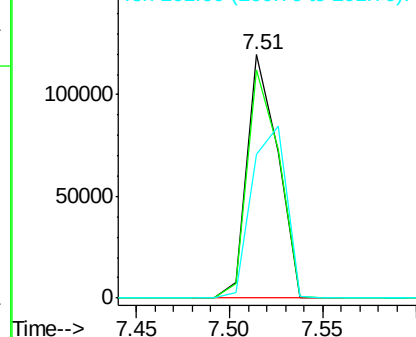
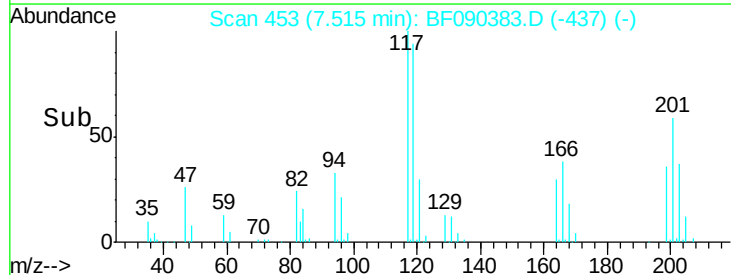


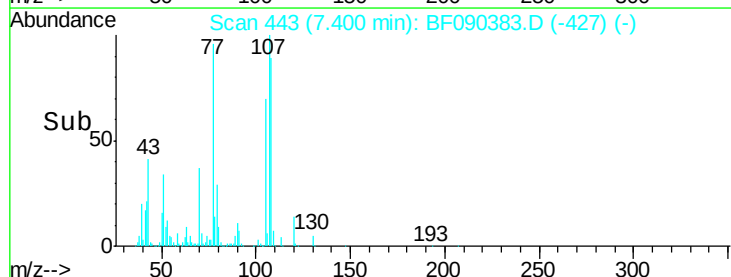
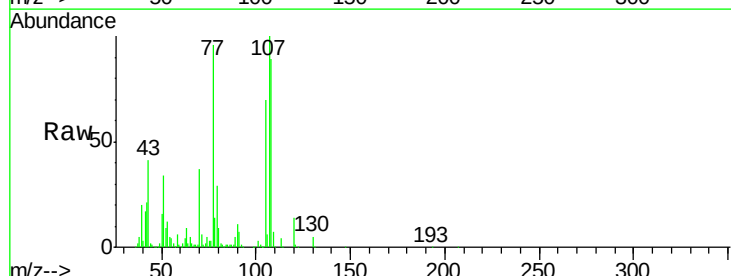
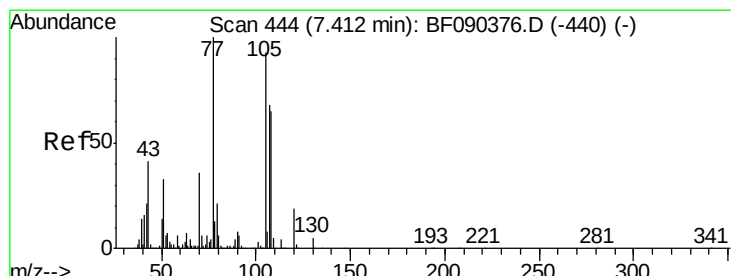
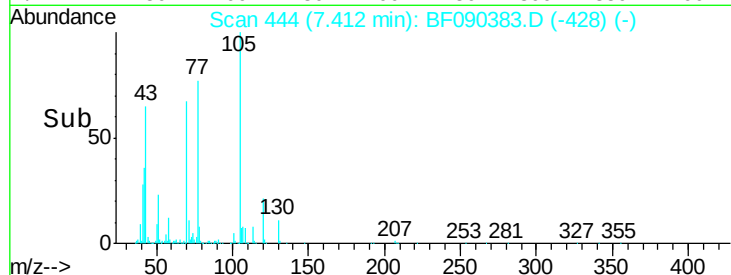
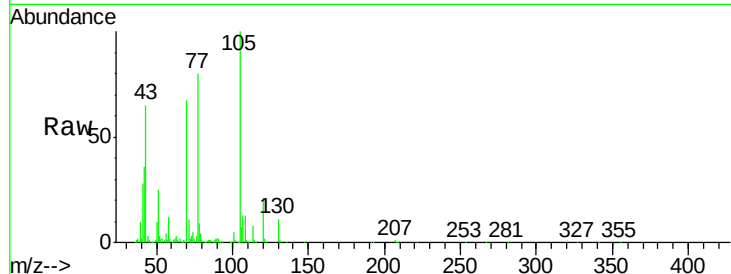
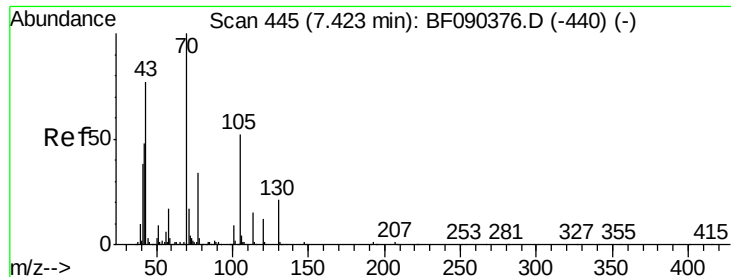
#18
Hexachloroethane
Concen: 18.72 ng
RT: 7.51 min Scan# 453
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	93.6	75.9	113.9	
201	59.1	66.5	99.7#	



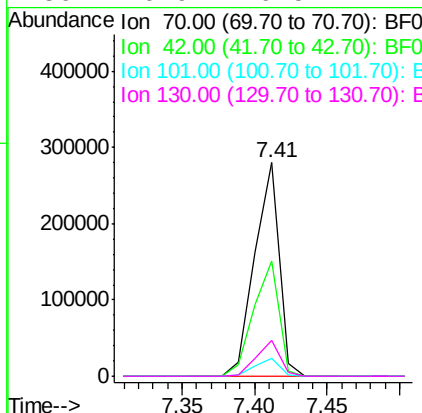
Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#19
n-Nitroso-di-n-propylamine
Concen: 20.52 ng
RT: 7.41 min Scan# 444
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tot Ion	Ratio	Lower	Upper
70	100		
42	54.1	55.4	83.2#
101	8.1	7.6	11.4
130	16.9	16.5	24.7



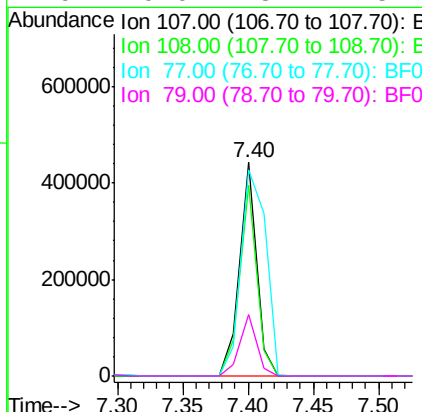
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

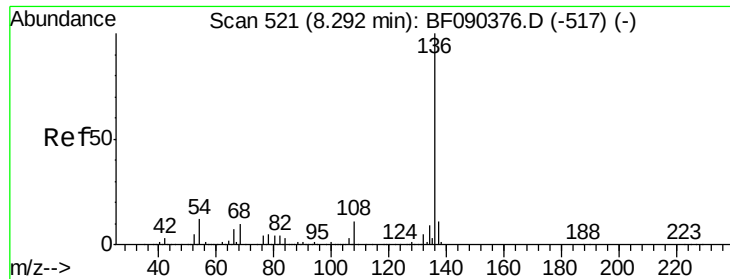
Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM

#20
3+4-Methylphenols
Concen: 20.74 ng
RT: 7.40 min Scan# 443
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
107	100		
108	89.0	66.7	106.7
77	96.4	53.7	93.7#
79	29.0	8.4	48.4





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.29 min Scan# 521

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

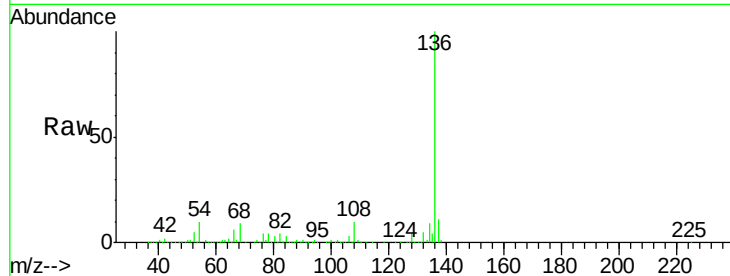
LOQ-SOIL2016--02-QT4

Tot Ion:136 Resp: 1086023

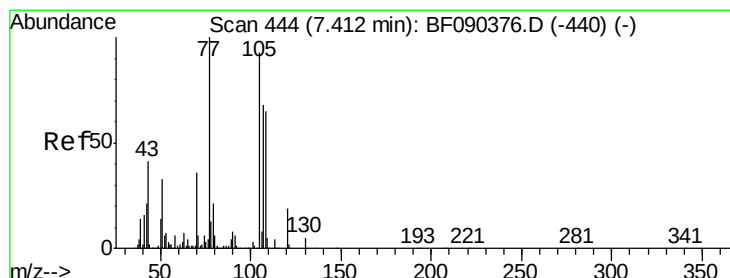
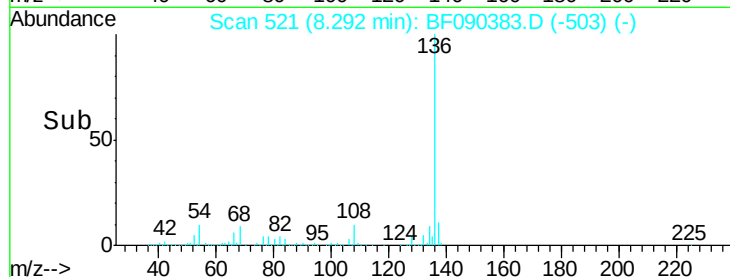
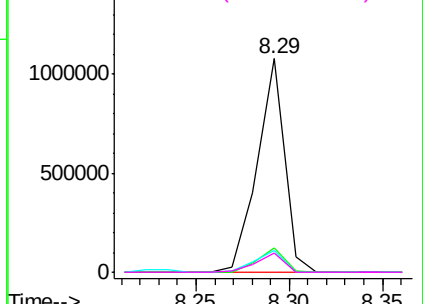
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.1	6.6	10.0#
68	8.8	5.0	7.6#

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



Abundance Ion 136.00 (135.70 to 136.70): E



#22

Acetophenone

Concen: 20.34 ng

RT: 7.41 min Scan# 444

Delta R.T. 0.00 min

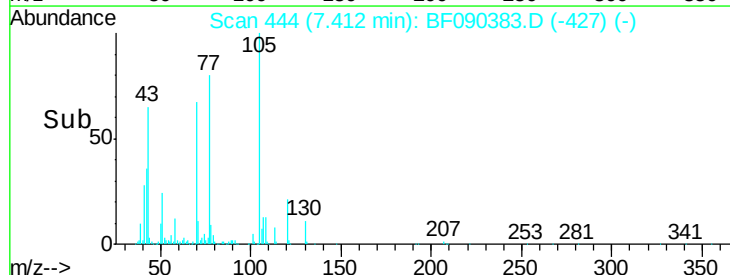
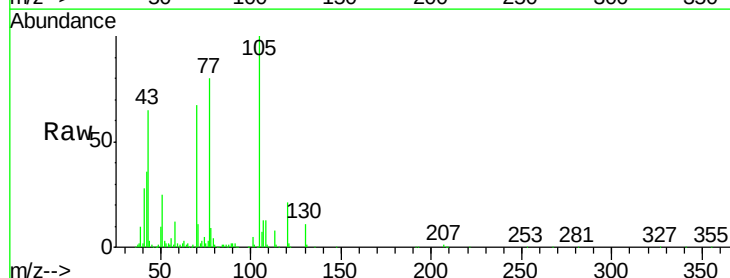
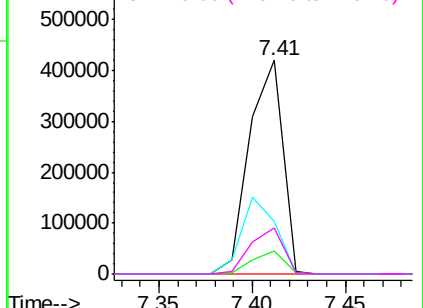
Lab File: BF090383.D

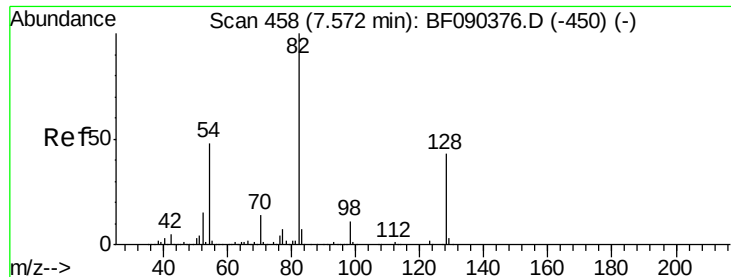
Acq: 5 Oct 2016 16:03

Tgt Ion:105 Resp: 523156

Ion	Ratio	Lower	Upper
105	100		
71	11.0	3.8	5.6#
51	24.5	28.2	42.4#
120	21.3	17.4	26.2#

Abundance Ion 105.00 (104.70 to 105.70): E





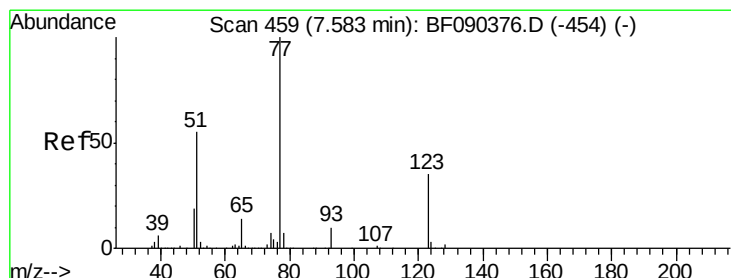
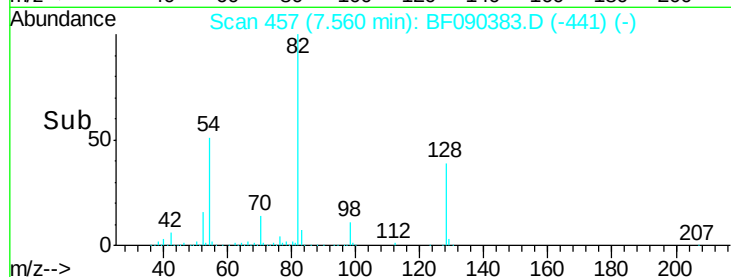
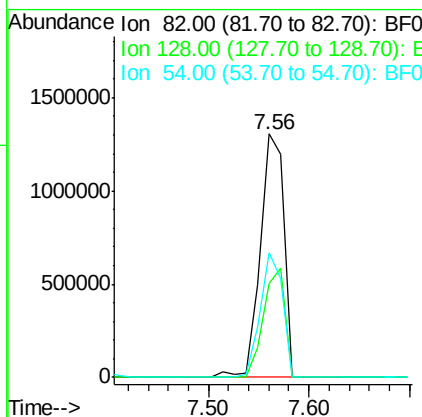
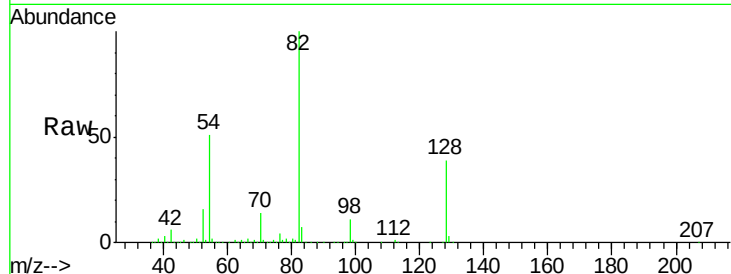
#23
 Nitrobenzene-d5
 Concen: 94.11 ng
 RT: 7.56 min Scan# 457
 Delta R.T. -0.01 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion: 82 Resp: 2101165
 Ion Ratio Lower Upper
 82 100
 128 38.5 40.0 60.0#
 54 51.4 42.6 64.0

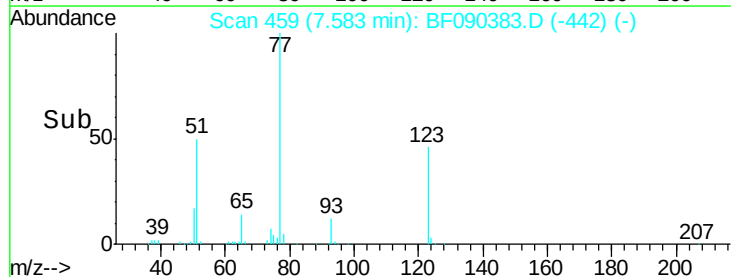
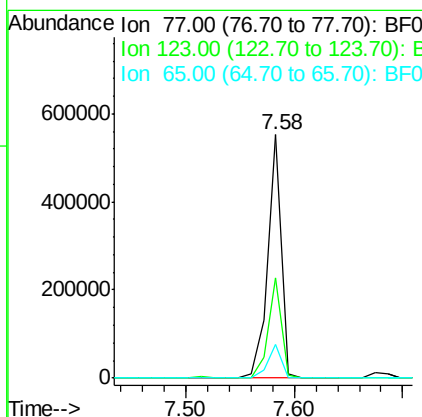
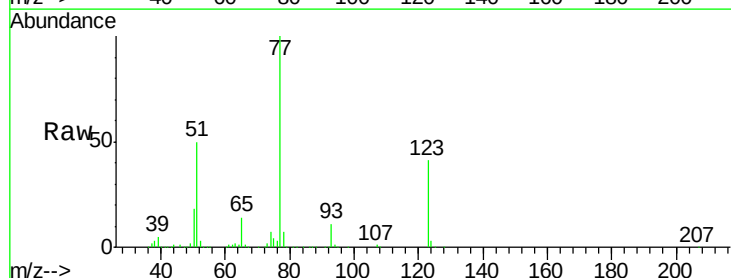
Manual Integrations
 APPROVED

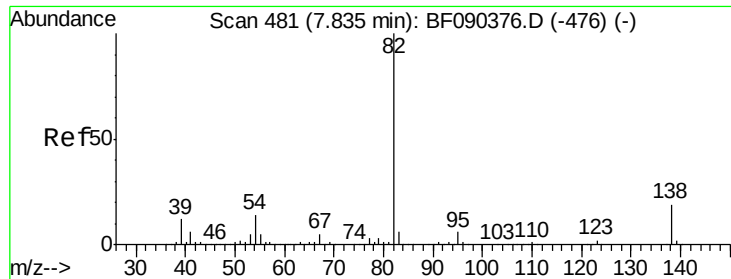
SOHIL
 10/6/2016 5:27:29 PM



#24
 Nitrobenzene
 Concen: 21.93 ng
 RT: 7.58 min Scan# 459
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion: 77 Resp: 485973
 Ion Ratio Lower Upper
 77 100
 123 41.2 33.0 49.4
 65 13.6 12.0 18.0





#25

Isophorone

Concen: 19.97 ng

RT: 7.82 min Scan# 480

Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

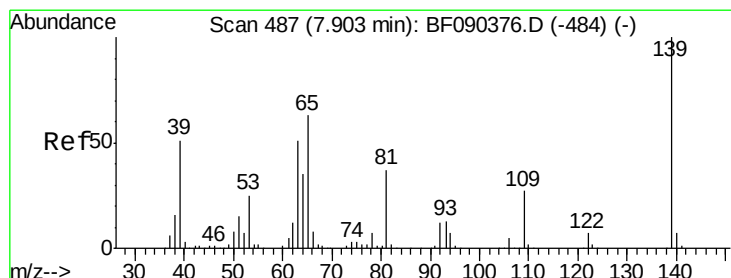
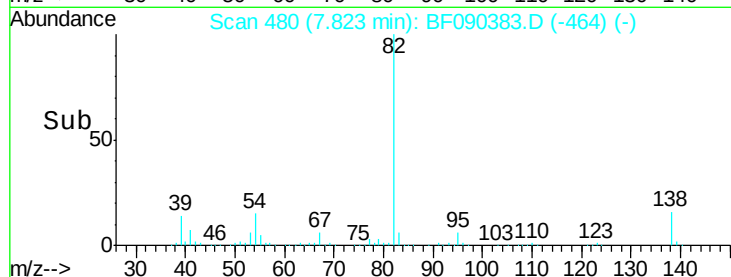
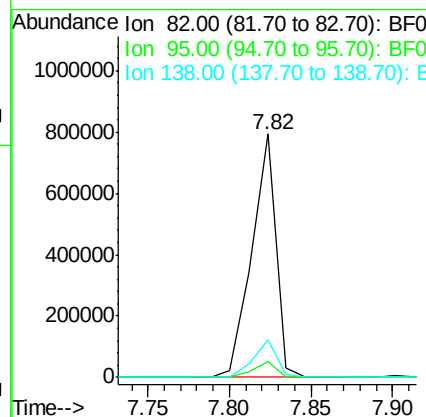
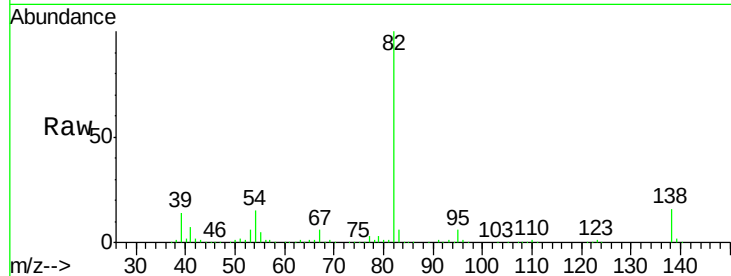
ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:	82	Resp:	815126
Ion Ratio		Lower	Upper
82	100		
95	6.3	5.2	7.8
138	15.6	13.0	19.4

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



#26

2-Nitrophenol

Concen: 19.70 ng

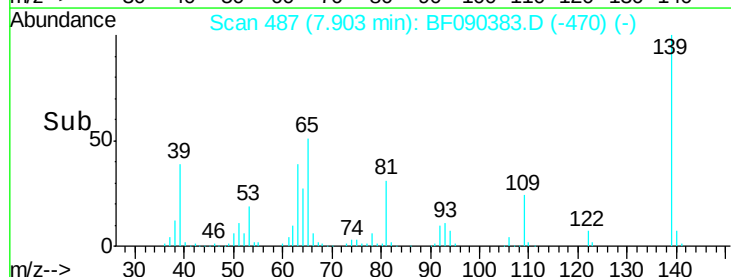
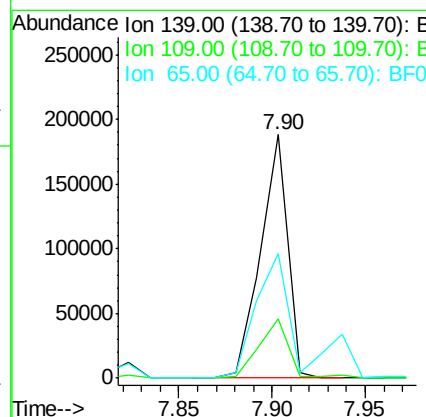
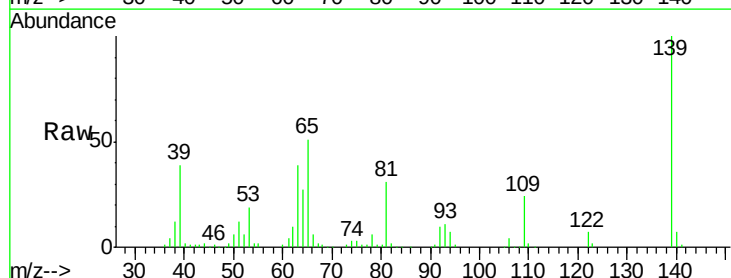
RT: 7.90 min Scan# 487

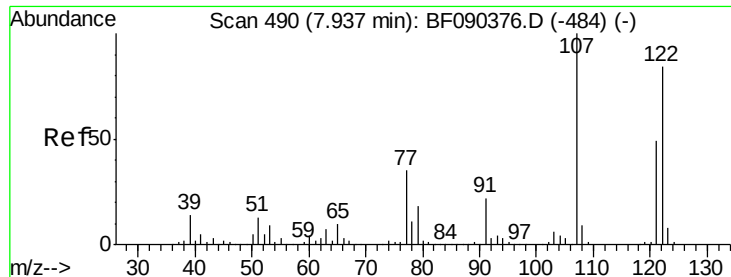
Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Tgt Ion:	139	Resp:	187893
Ion Ratio		Lower	Upper
139	100		
109	24.3	18.9	28.3
65	51.1	31.6	47.4#





#27

2,4-Dimethylphenol

Concen: 20.30 ng

RT: 7.94 min Scan# 490

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

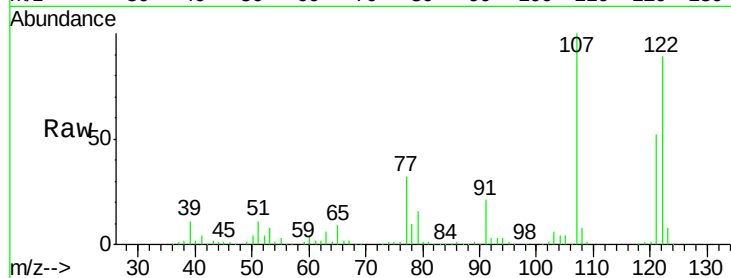
ClientSampleId :

LOQ-SOIL2016--02-QT4

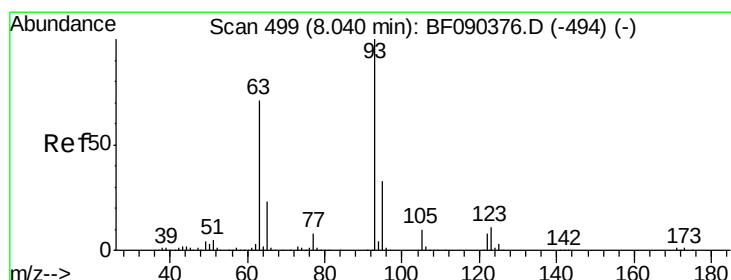
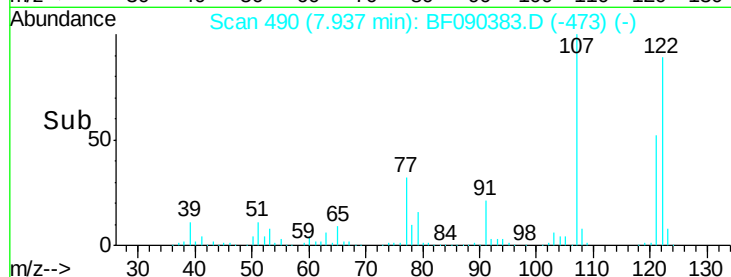
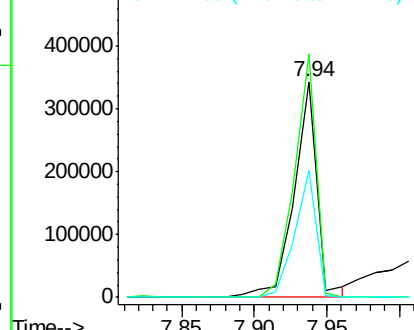
Tot Ion:	122	Resp:	376567
Ion Ratio	Lower	Upper	
122	100		
107	112.8	88.6	132.8
121	59.0	47.5	71.3

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 19.02 ng

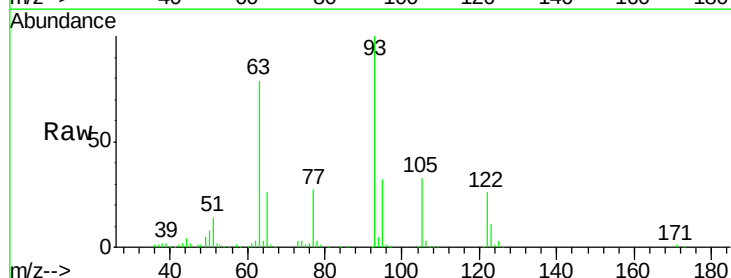
RT: 8.03 min Scan# 498

Delta R.T. -0.01 min

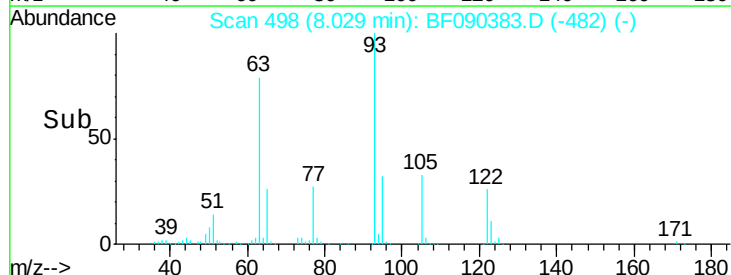
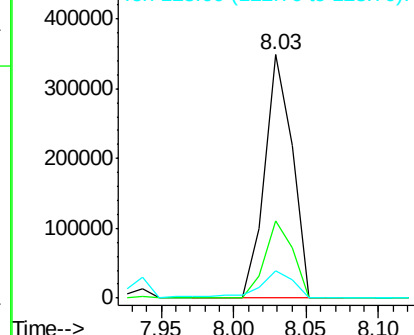
Lab File: BF090383.D

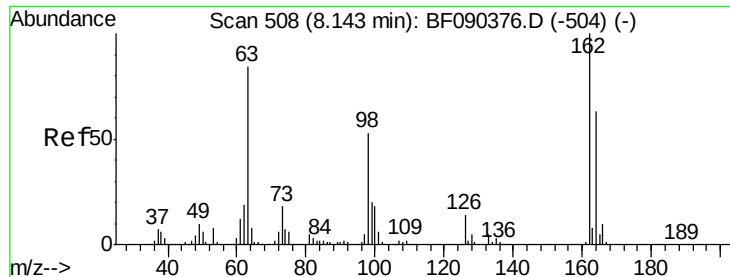
Acq: 5 Oct 2016 16:03

Tgt Ion:	93	Resp:	459110
Ion Ratio	Lower	Upper	
93	100		
95	32.0	27.0	40.4
123	11.0	11.1	16.7#



Abundance Ion 93.00 (92.70 to 93.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 123.00 (122.70 to 123.70): E





#29

2,4-Dichlorophenol

Concen: 19.77 ng

RT: 8.14 min Scan# 508

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

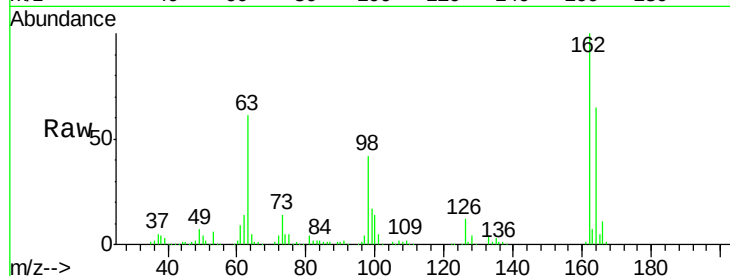
ClientSampleId :

LOQ-SOIL2016--02-QT4

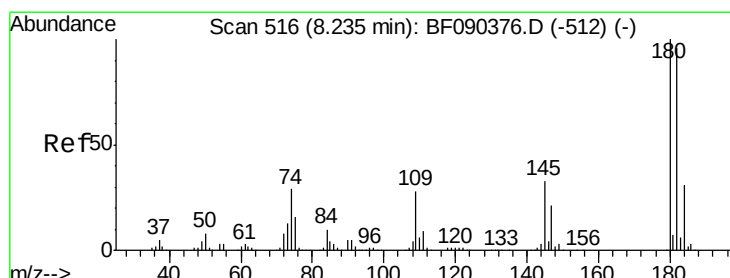
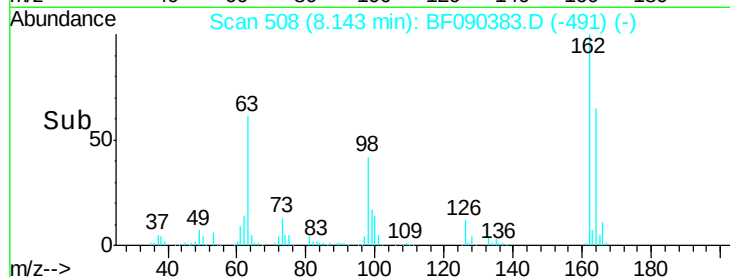
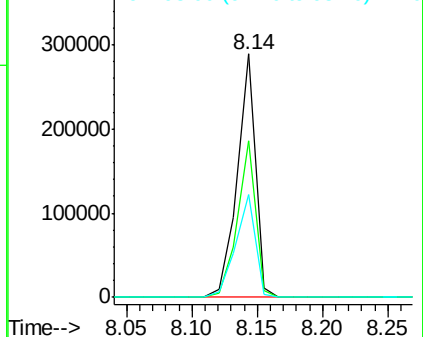
Tot Ion:	162	Resp:	278815
Ion Ratio		Lower	Upper
162	100		
164	64.5	45.7	85.7
98	42.2	13.3	53.3

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF0



#30

1,2,4-Trichlorobenzene

Concen: 19.46 ng

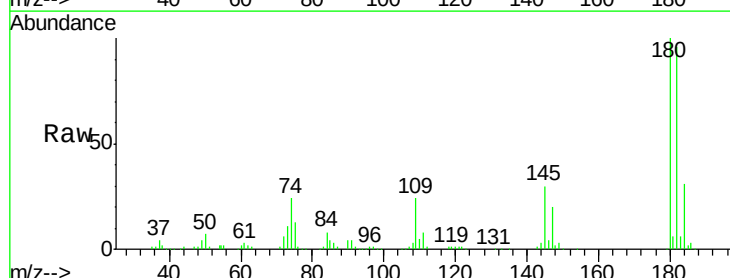
RT: 8.23 min Scan# 516

Delta R.T. 0.00 min

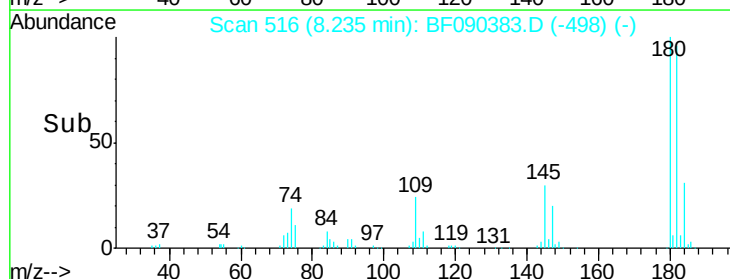
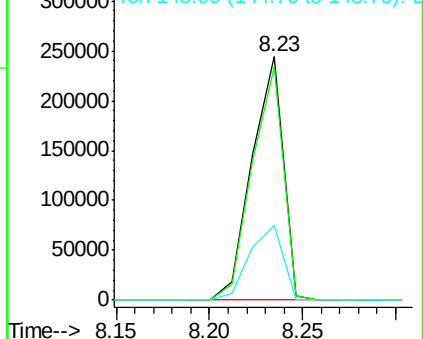
Lab File: BF090383.D

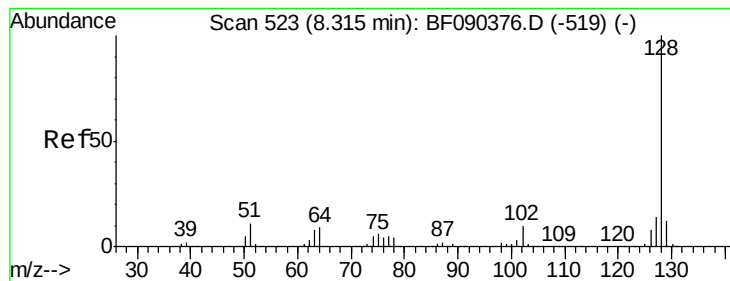
Acq: 5 Oct 2016 16:03

Tgt Ion:	180	Resp:	282946
Ion Ratio		Lower	Upper
180	100		
182	95.8	75.3	112.9
145	30.5	27.7	41.5



Abundance Ion 180.00 (179.70 to 180.70): E
Ion 182.00 (181.70 to 182.70): E
Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 20.34 ng

RT: 8.31 min Scan# 523

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:128 Resp: 1065810

Ion Ratio Lower Upper

128 100

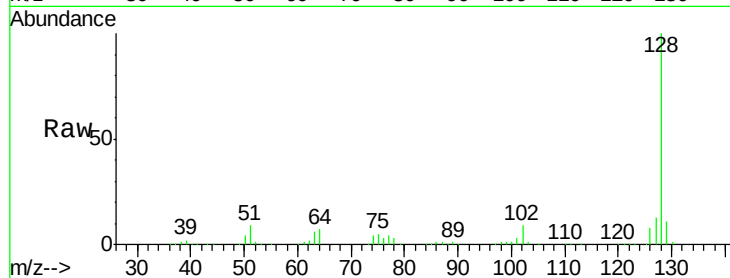
129 11.1 9.7 14.5

127 13.3 11.7 17.5

Manual Integrations
APPROVED

SOHIL

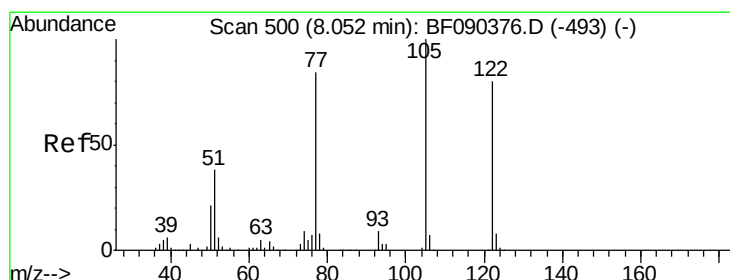
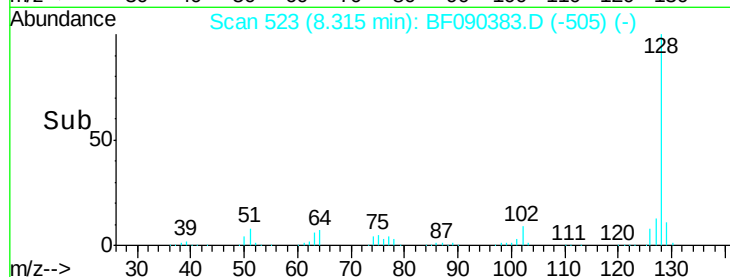
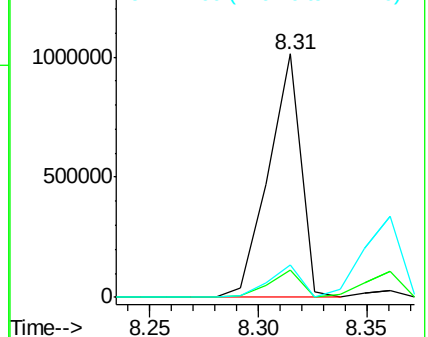
10/6/2016 5:27:29 PM



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 18.94 ng

RT: 8.03 min Scan# 498

Delta R.T. -0.02 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

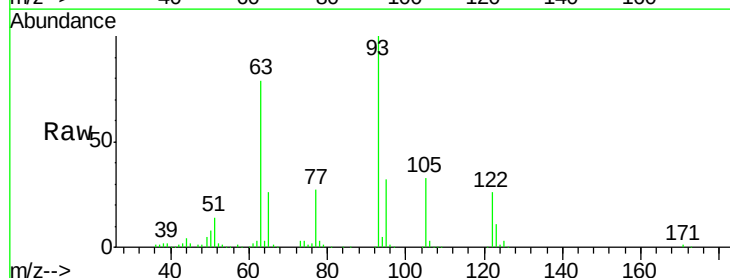
Tgt Ion:122 Resp: 244356

Ion Ratio Lower Upper

122 100

105 126.9 103.9 143.9

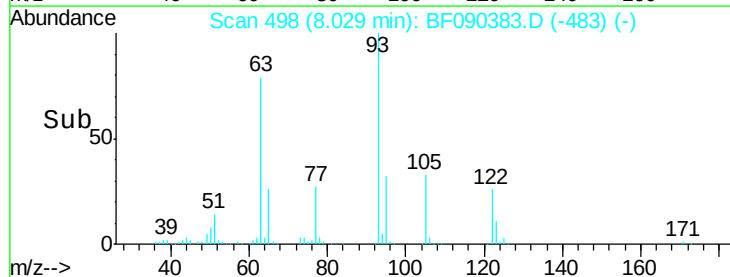
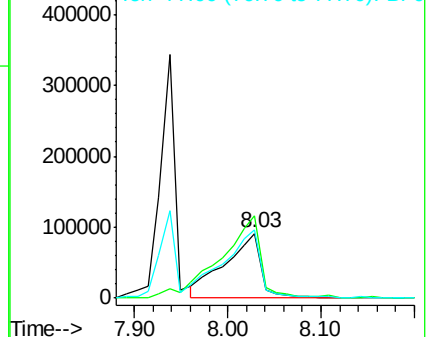
77 105.0 74.6 114.6

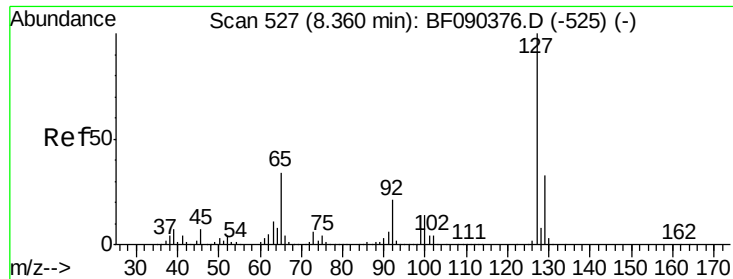


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0





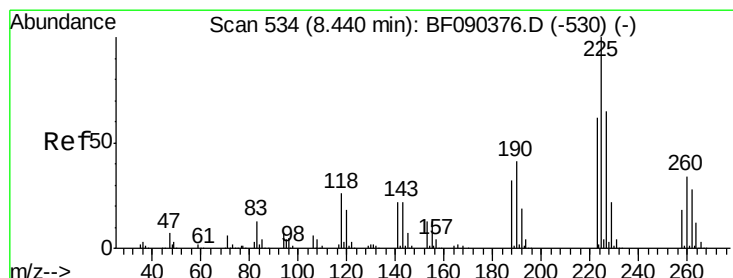
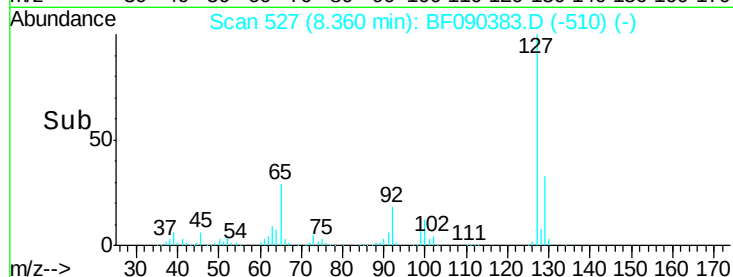
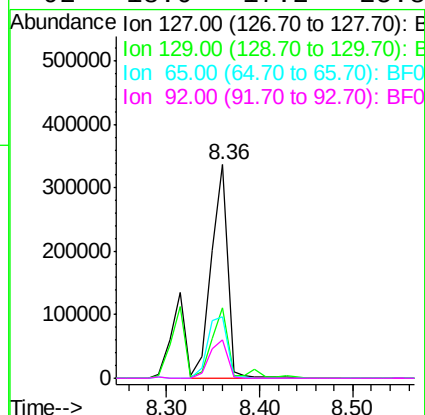
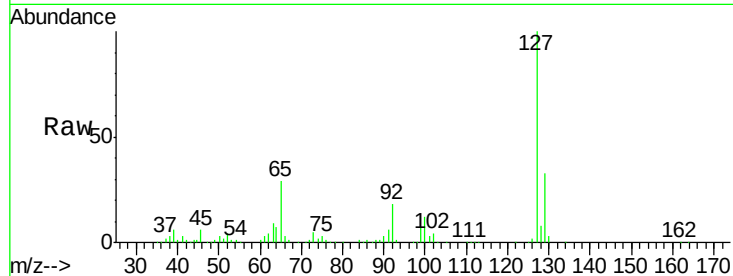
#33
4-Chloroaniline
Concen: 18.82 ng
RT: 8.36 min Scan# 527
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100				
129	32.8	26.2	39.4		
65	28.7	32.5	48.7		
92	18.0	17.2	25.8		

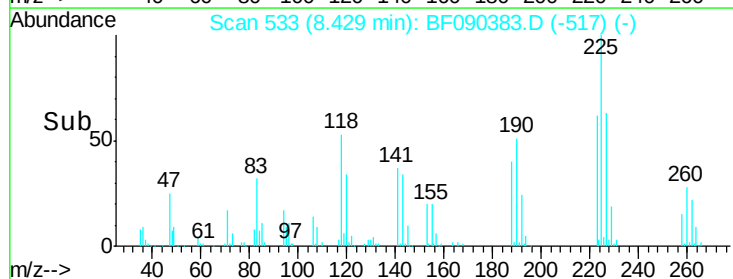
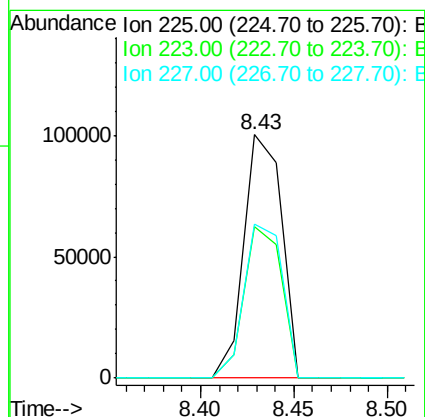
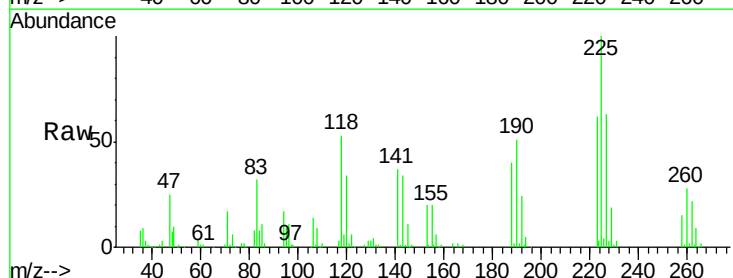
Manual Integrations
APPROVED

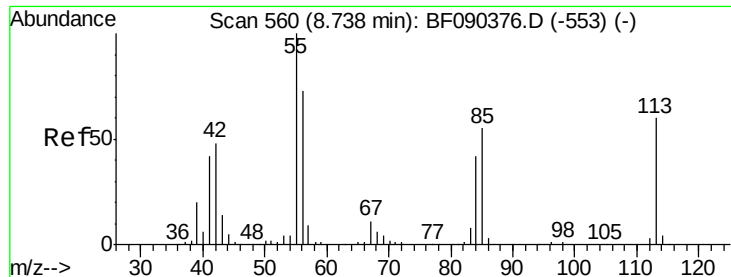
SOHIL
10/6/2016 5:27:29 PM



#34
Hexachlorobutadiene
Concen: 17.33 ng
RT: 8.43 min Scan# 533
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100				
223	62.0	51.0	76.4		
227	63.5	50.8	76.2		





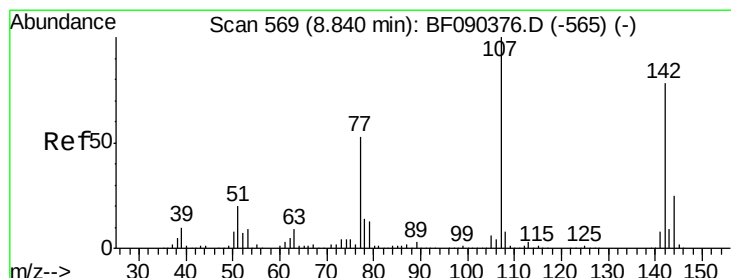
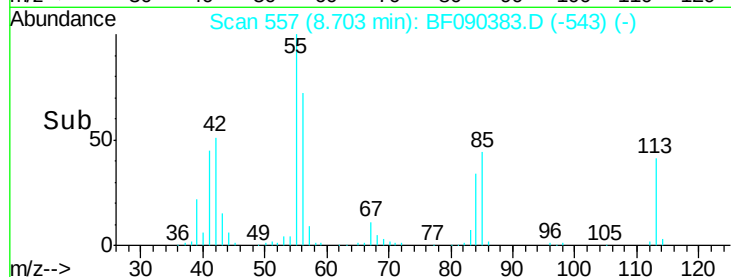
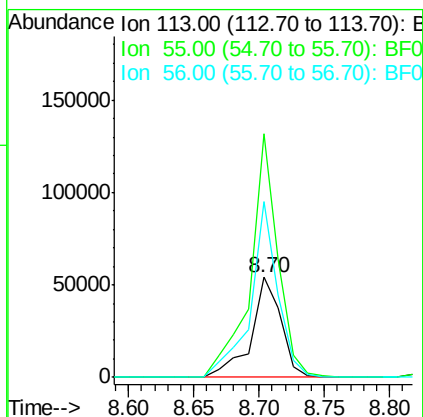
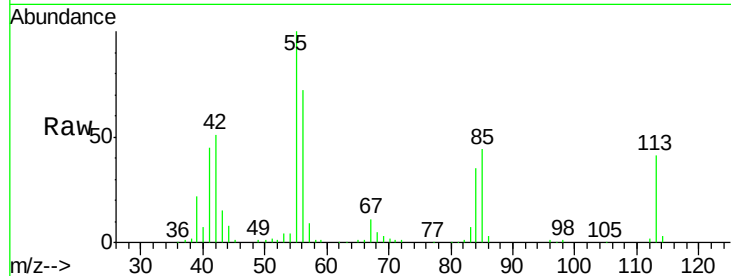
#35
 Caprolactam
 Concen: 18.27 ng
 RT: 8.70 min Scan# 557
 Delta R.T. -0.03 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion:113 Resp: 86624
 Ion Ratio Lower Upper
 113 100
 55 243.6 203.3 243.3#
 56 176.0 140.5 180.5

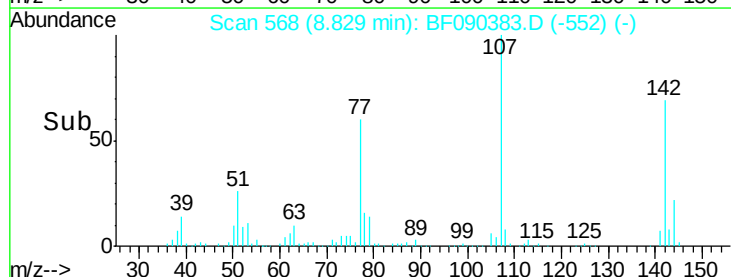
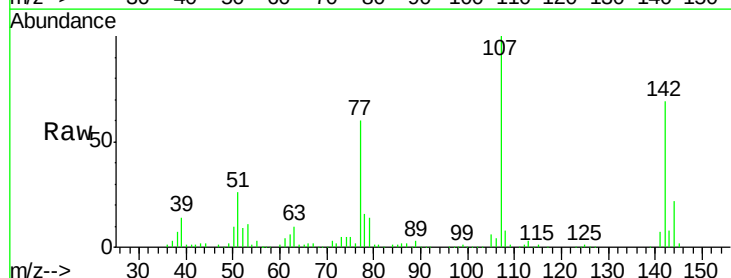
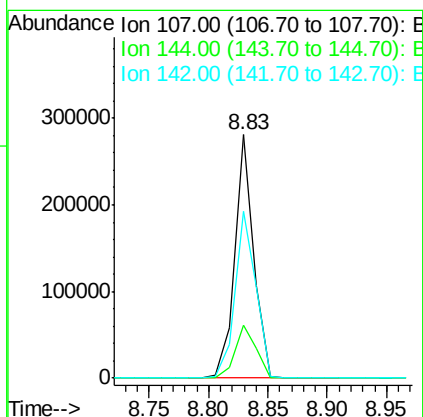
Manual Integrations
 APPROVED

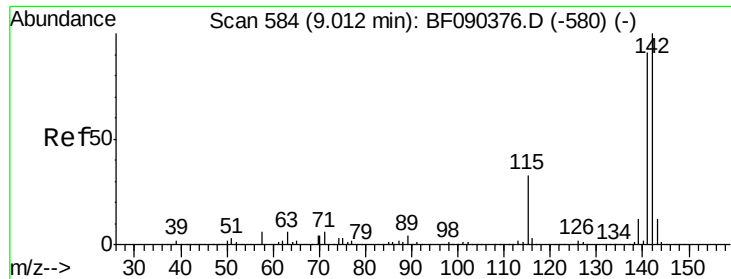
SOHIL
 10/6/2016 5:27:29 PM



#36
 4-Chloro-3-methylphenol
 Concen: 17.60 ng
 RT: 8.83 min Scan# 568
 Delta R.T. -0.01 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion:107 Resp: 310834
 Ion Ratio Lower Upper
 107 100
 144 21.6 19.8 29.8
 142 68.5 60.7 91.1





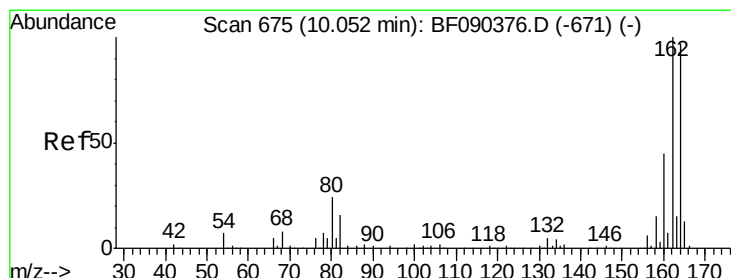
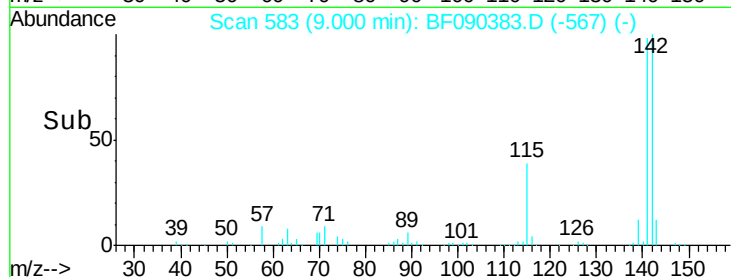
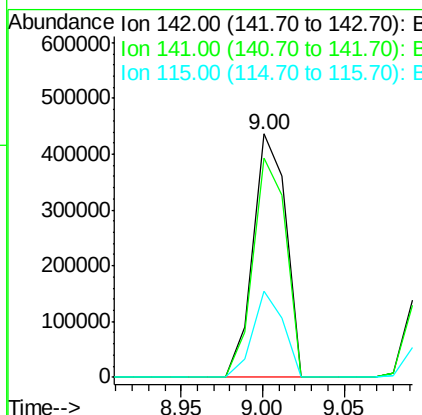
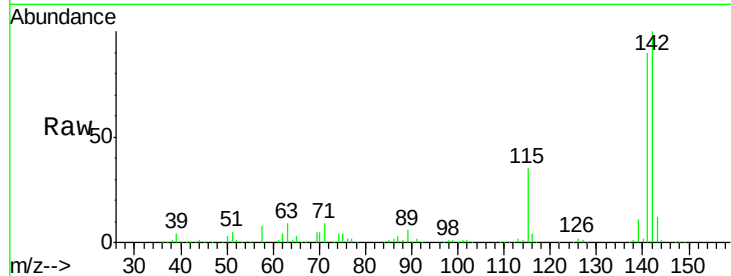
#37
2-Methylnaphthalene
Concen: 19.30 ng
RT: 9.00 min Scan# 583
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.8	107.8
115	35.4	28.8	43.2

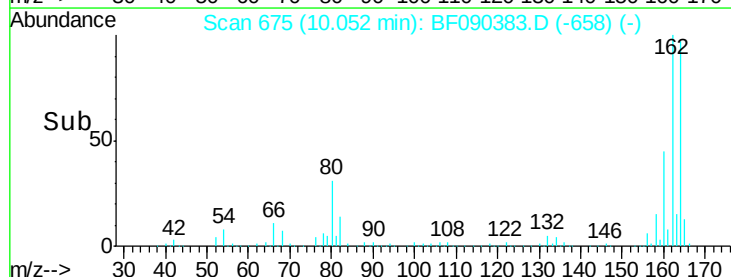
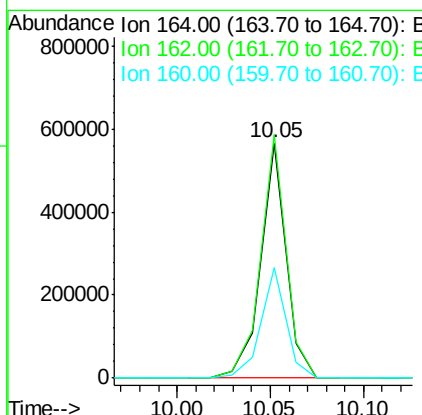
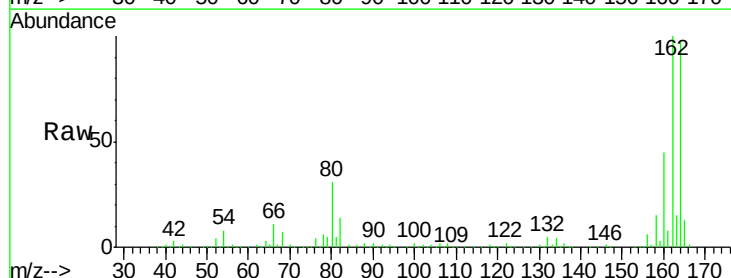
Manual Integrations
APPROVED

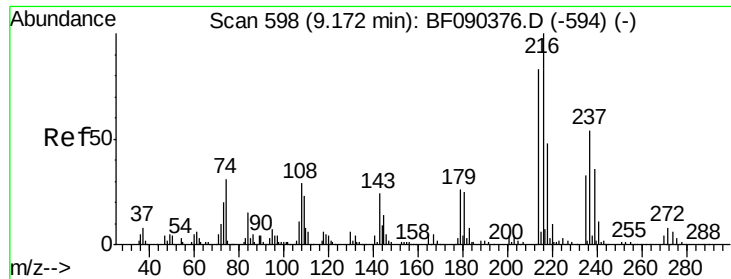
SOHIL
10/6/2016 5:27:29 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.05 min Scan# 675
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	80.1	120.1
160	47.0	36.3	54.5





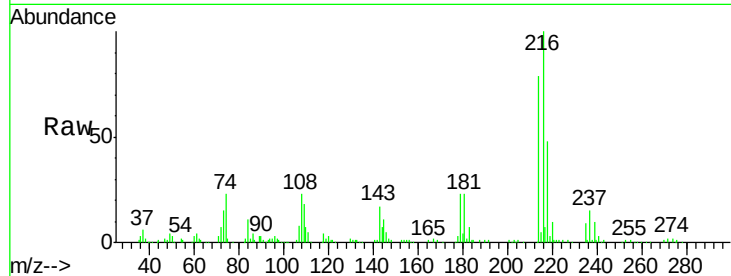
#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 18.98 ng
 RT: 9.17 min Scan# 598
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
216	100		
214	78.9	64.2	96.2
179	23.6	18.0	27.0
108	25.5	15.2	22.8

Manual Integrations
 APPROVED

SOHIL
 10/6/2016 5:27:29 PM



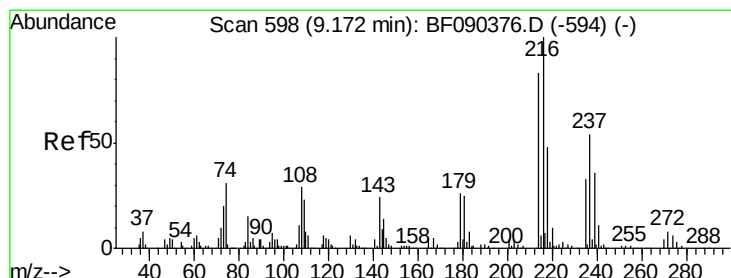
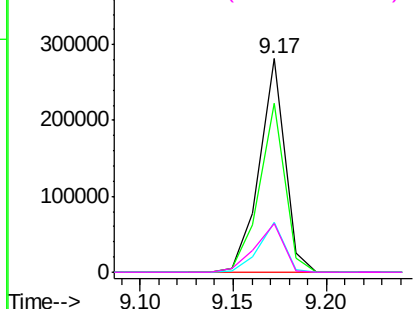
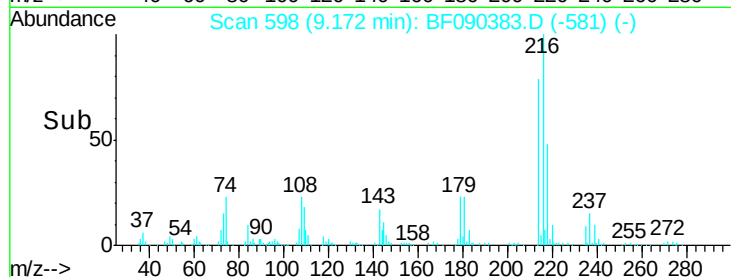
Abundance

Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

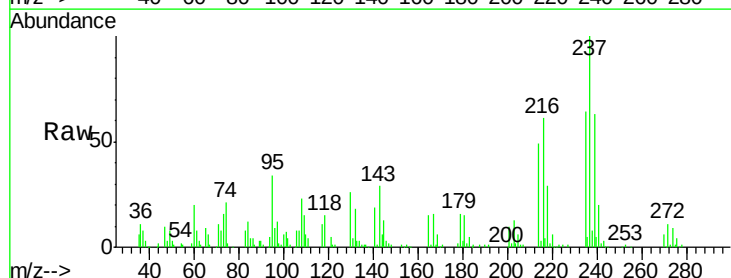
Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40
 Hexachlorocyclopentadiene
 Concen: 17.85 ng
 RT: 9.16 min Scan# 597
 Delta R.T. -0.01 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
237	100		
235	63.8	43.6	83.6
272	11.3	0.0	32.7

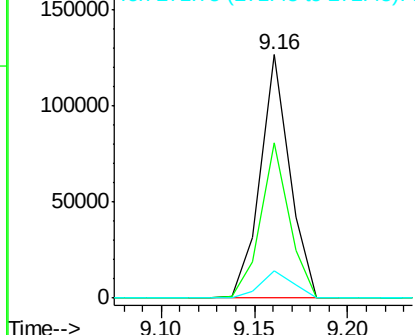
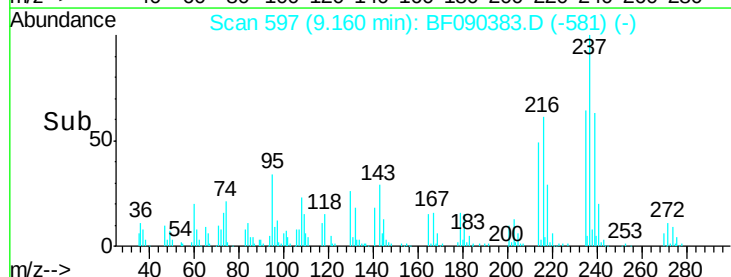


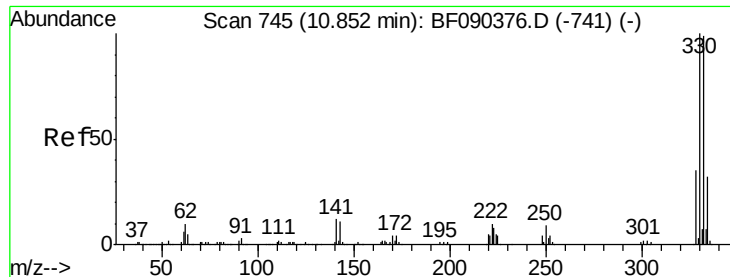
Abundance

Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





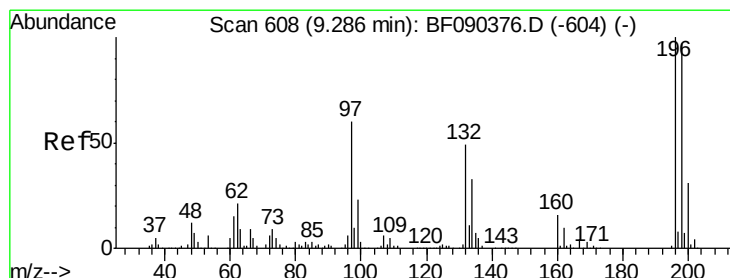
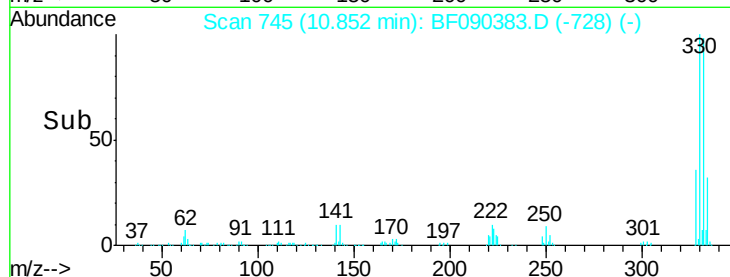
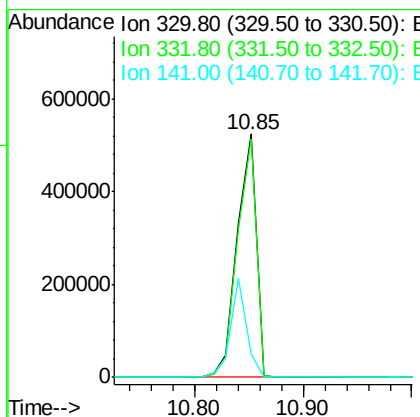
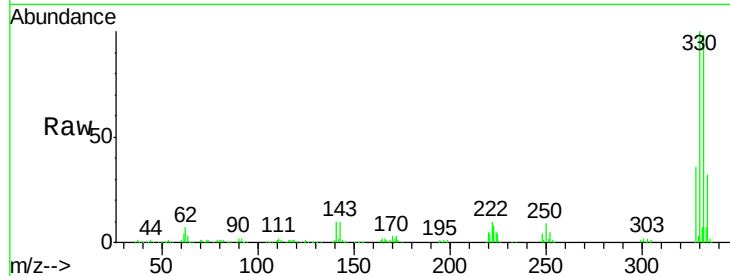
#41
 2,4,6-Tribromophenol
 Concen: 144.87 ng
 RT: 10.85 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
330	100	627963		
332	96.7		75.4	113.0
141	34.7		26.9	40.3

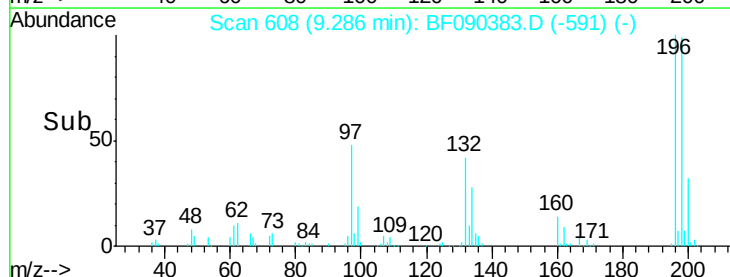
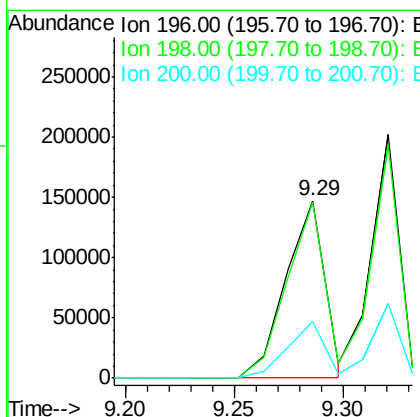
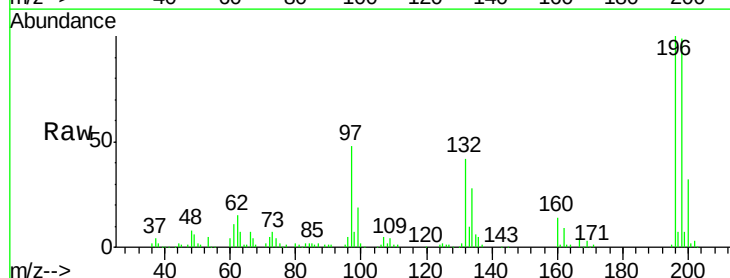
Manual Integrations
 APPROVED

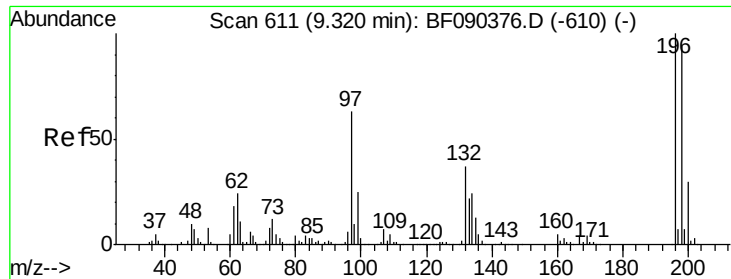
SOHIL
 10/6/2016 5:27:29 PM



#42
 2,4,6-Trichlorophenol
 Concen: 19.05 ng
 RT: 9.29 min Scan# 608
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	184764		
198	99.0		78.9	118.3
200	31.7		25.4	38.2





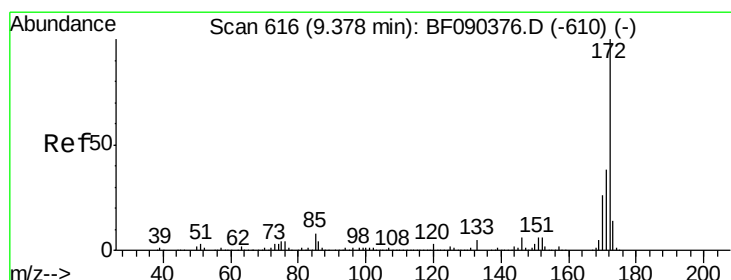
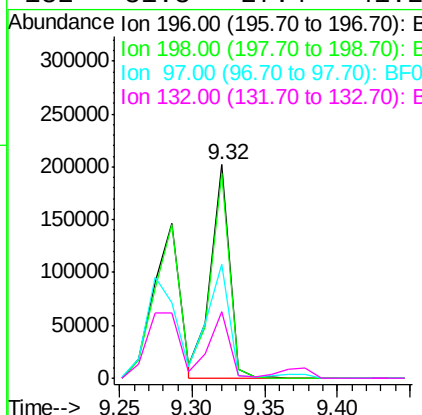
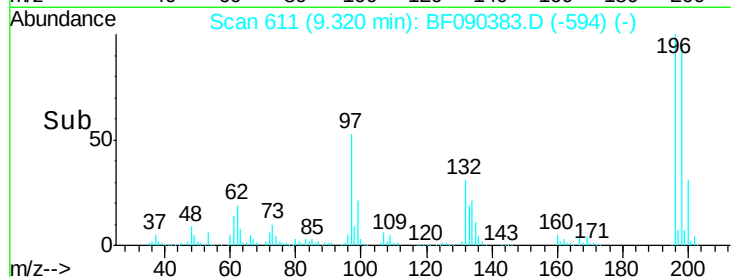
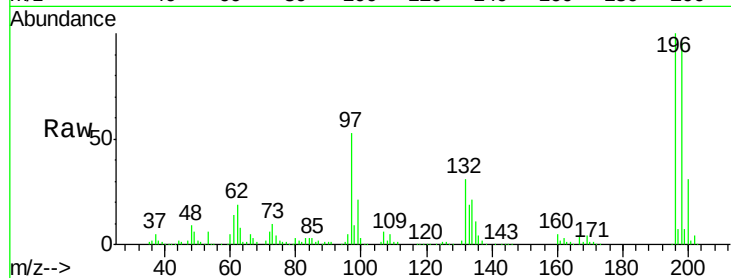
#43
 2,4,5-Trichlorophenol
 Concen: 19.82 ng
 RT: 9.32 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
196	100		181780		
198	95.9	78.1	117.1		
97	53.1	48.1	72.1		
132	31.3	27.4	41.2		

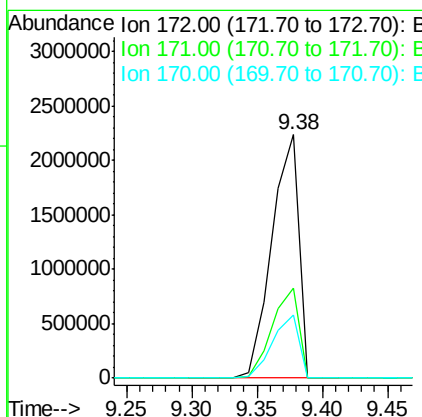
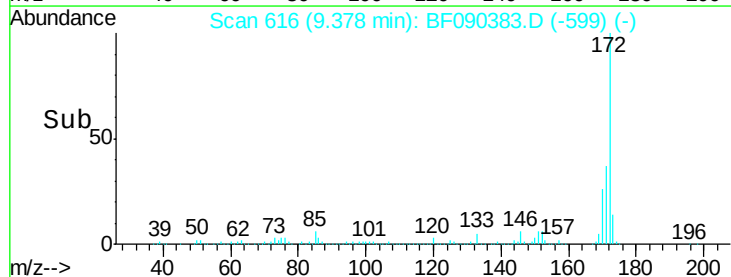
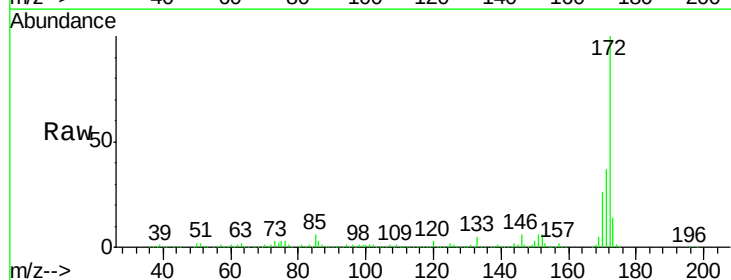
Manual Integrations
 APPROVED

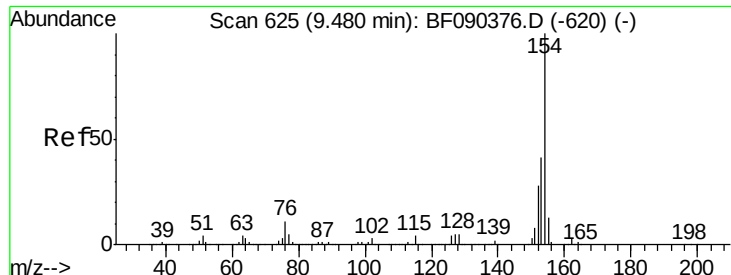
SOHIL
 10/6/2016 5:27:29 PM



#44
 2-Fluorobiphenyl
 Concen: 101.22 ng
 RT: 9.38 min Scan# 616
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
172	100		3238405		
171	37.2	31.8	47.8		
170	25.8	21.7	32.5		





#45

1,1'-Biphenyl

Concen: 20.43 ng

RT: 9.47 min Scan# 624

Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

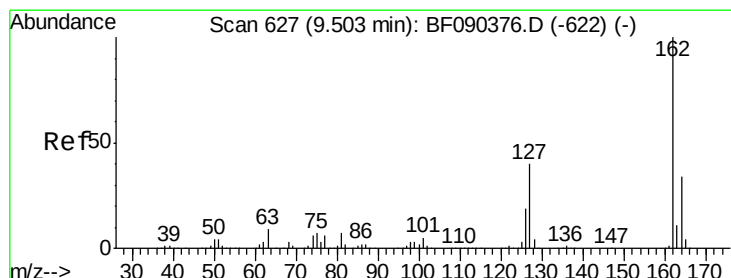
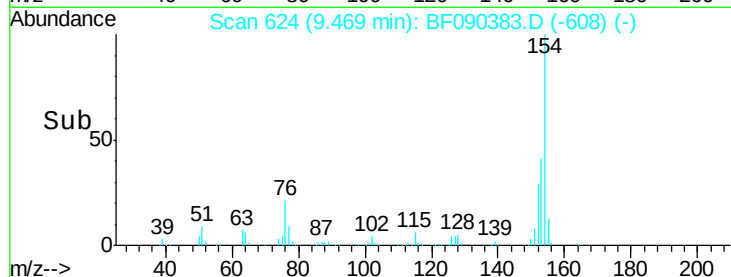
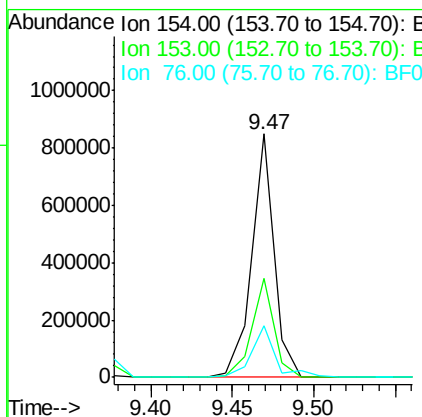
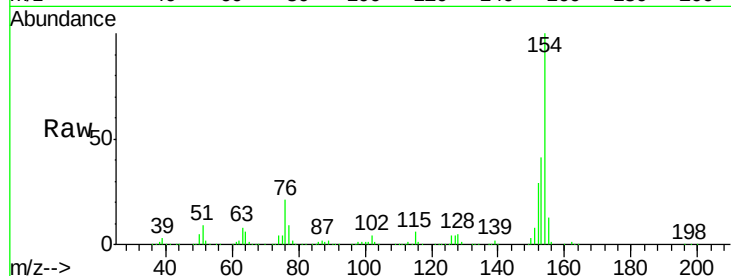
ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:	154	Resp:	807141
Ion Ratio	Lower	Upper	
154	100		
153	40.7	23.8	63.8
76	21.0	0.0	35.8

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



#46

2-Chloronaphthalene

Concen: 19.28 ng

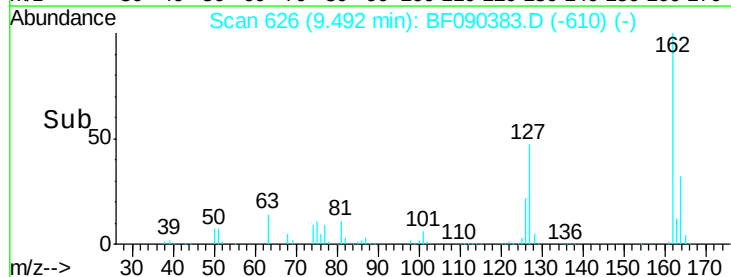
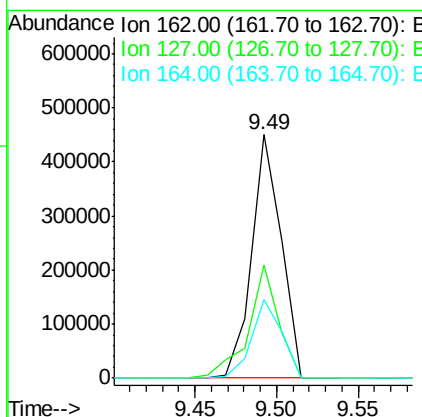
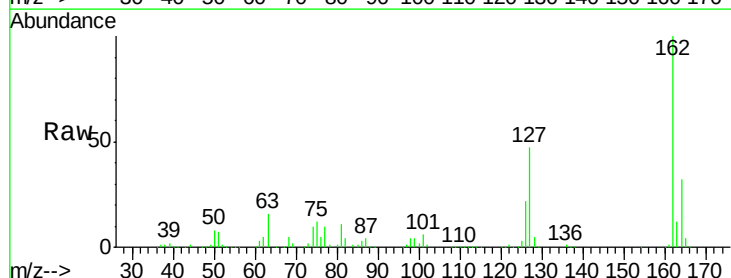
RT: 9.49 min Scan# 626

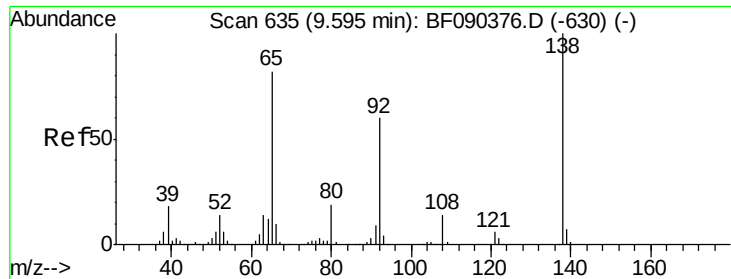
Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Tgt Ion:	162	Resp:	562778
Ion Ratio	Lower	Upper	
162	100		
127	46.5	35.6	53.4
164	32.2	27.5	41.3





#47

2-Nitroaniline

Concen: 20.70 ng

RT: 9.58 min Scan# 634

Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

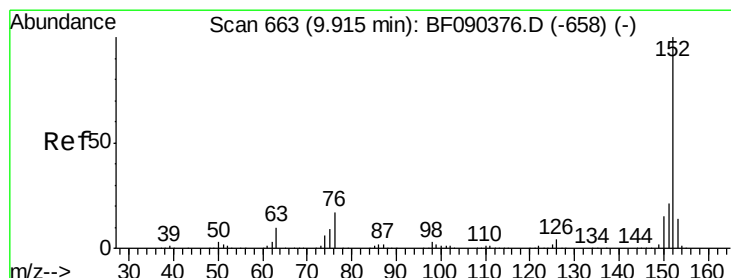
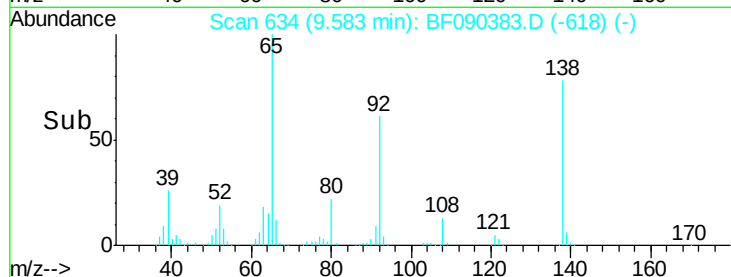
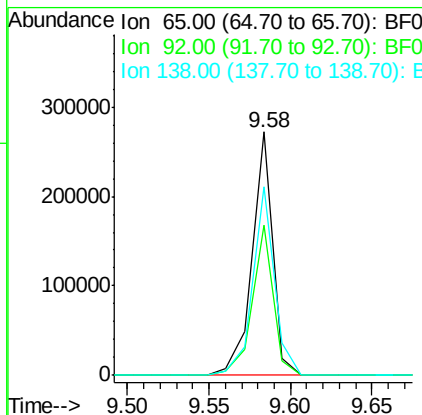
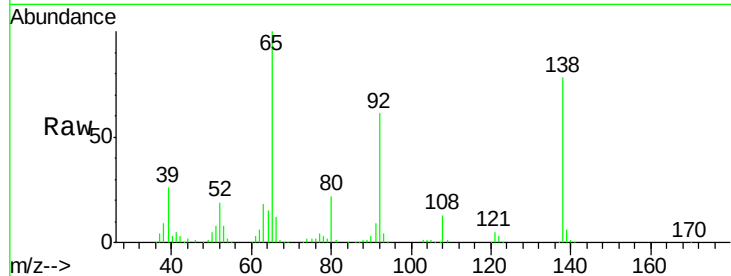
ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:	65	Resp:	238341
Ion Ratio	Lower	Upper	
65	100		
92	61.5	51.7	77.5
138	77.6	79.0	118.4#

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



#48

Acenaphthylene

Concen: 21.16 ng

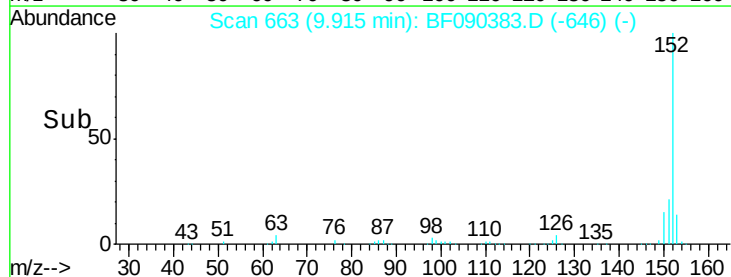
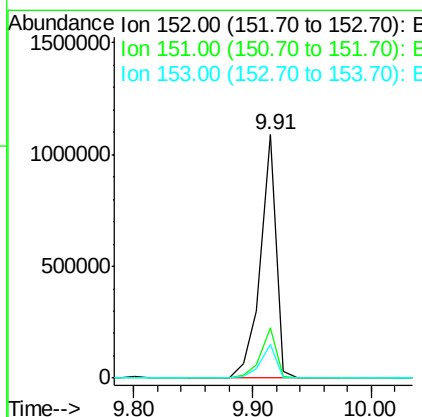
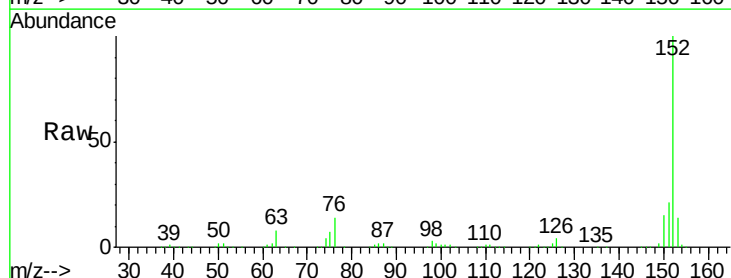
RT: 9.91 min Scan# 663

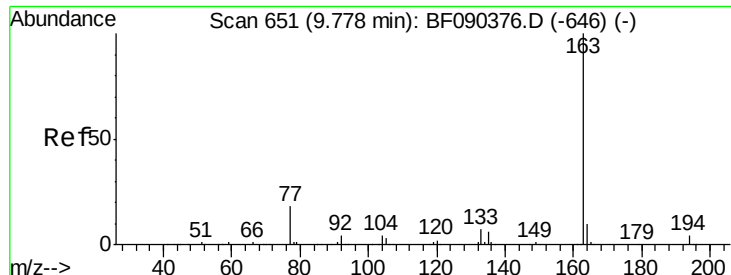
Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Tgt Ion:	152	Resp:	1019190
Ion Ratio	Lower	Upper	
152	100		
151	20.5	17.4	26.0
153	13.8	11.6	17.4





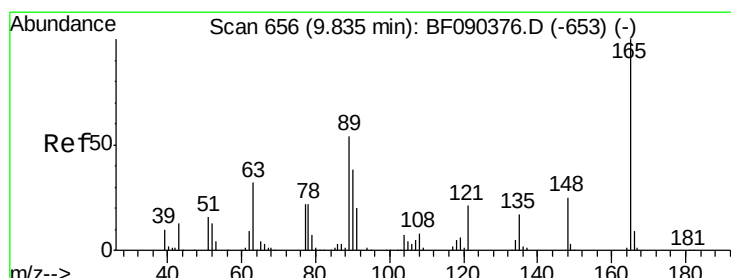
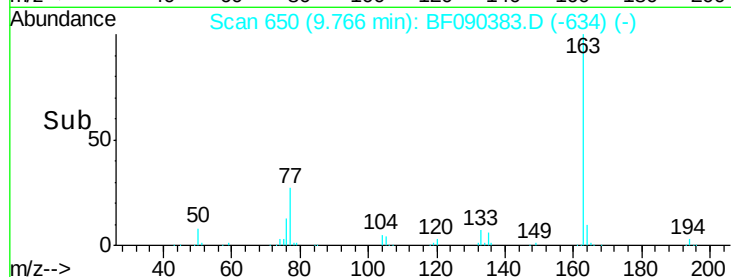
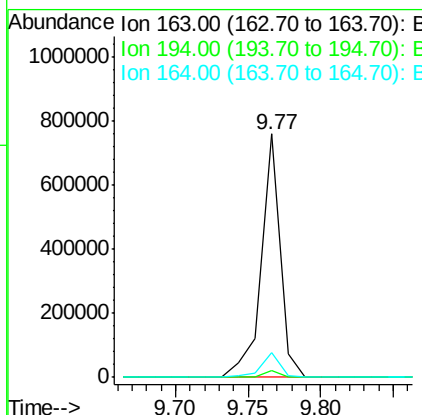
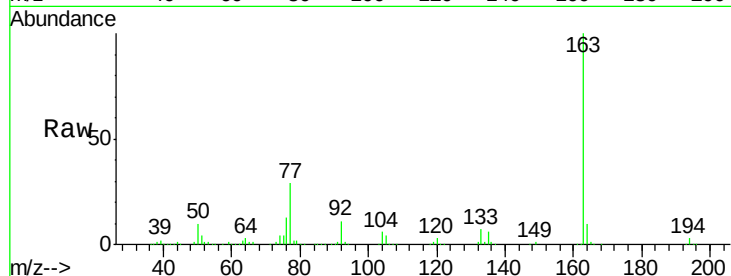
#49
Dimethylphthalate
Concen: 20.06 ng
RT: 9.77 min Scan# 650
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
163	100	684777		
194	3.0		2.8	4.2
164	10.3		9.0	13.4

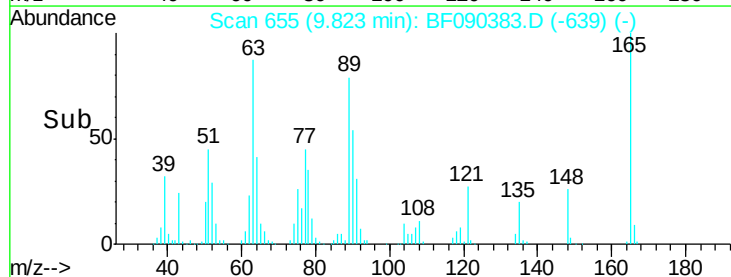
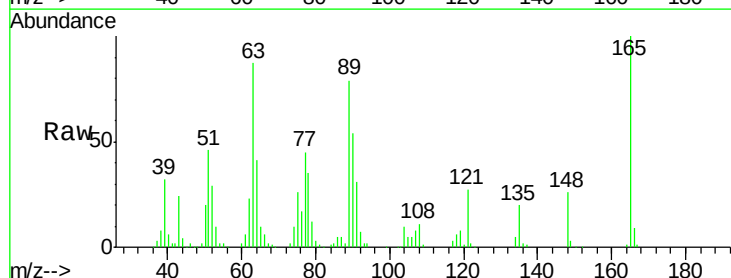
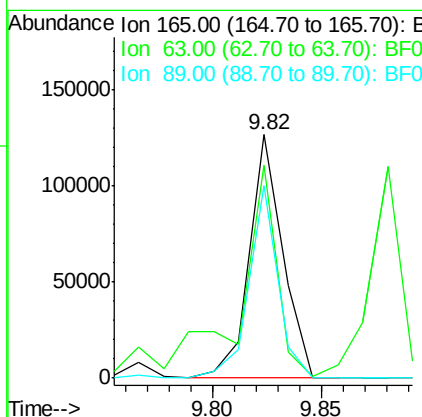
Manual Integrations
APPROVED

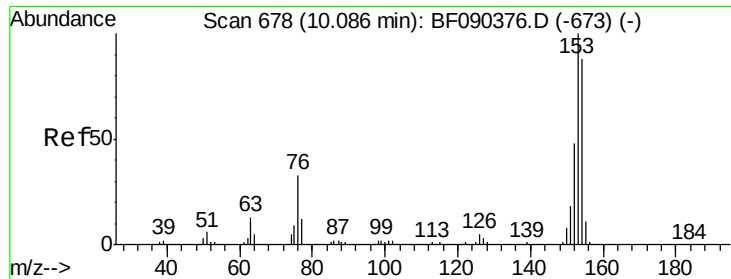
SOHIL
10/6/2016 5:27:29 PM



#50
2,6-Dinitrotoluene
Concen: 17.84 ng
RT: 9.82 min Scan# 655
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	135220		
63	87.3		58.0	87.0#
89	78.9		51.2	76.8#





#51

Acenaphthene

Concen: 20.92 ng

RT: 10.09 min Scan# 678

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

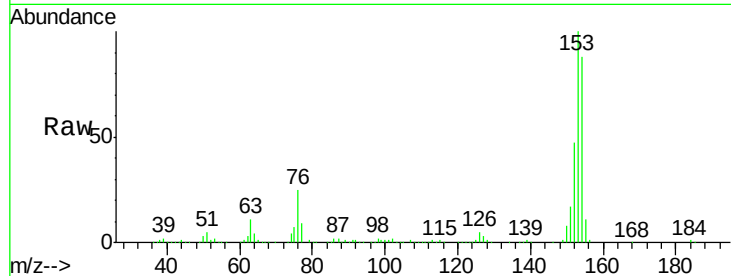
ClientSampleId :

LOQ-SOIL2016-02-QT4

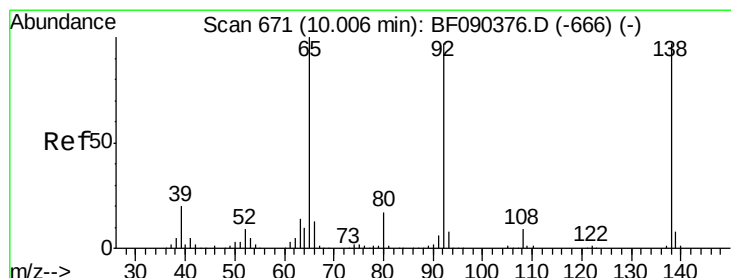
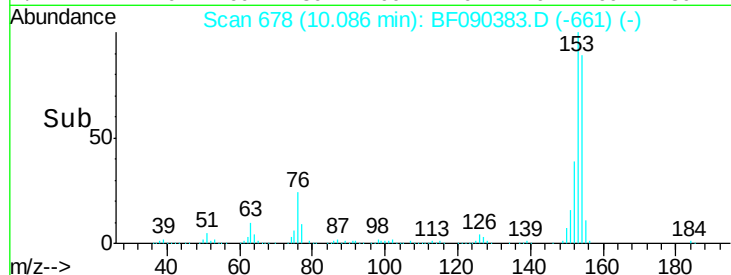
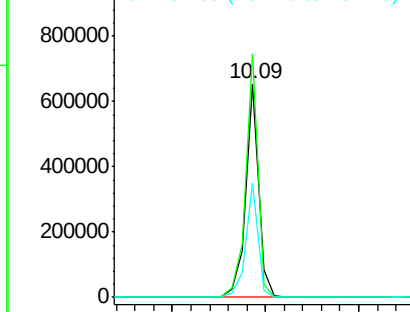
Tot Ion:	154	Resp:	628059
Ion Ratio	Lower	Upper	
154	100		
153	114.0	88.6	133.0
152	53.6	42.6	64.0

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



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



#52

3-Nitroaniline

Concen: 19.99 ng

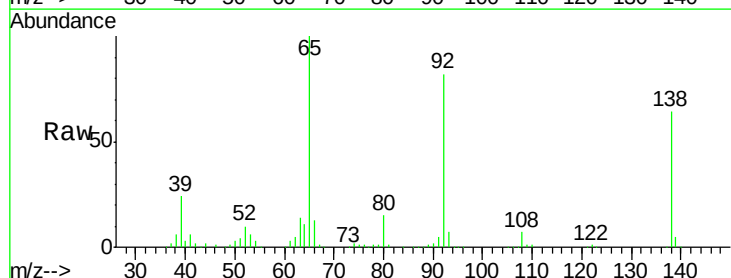
RT: 9.99 min Scan# 670

Delta R.T. -0.01 min

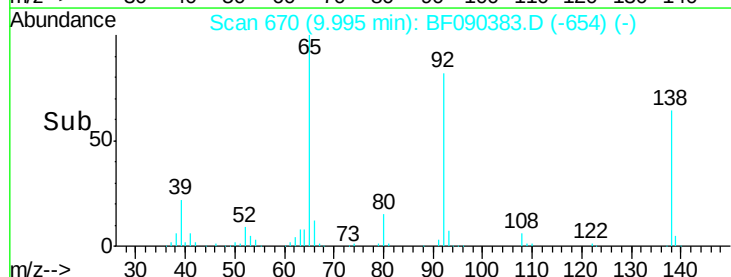
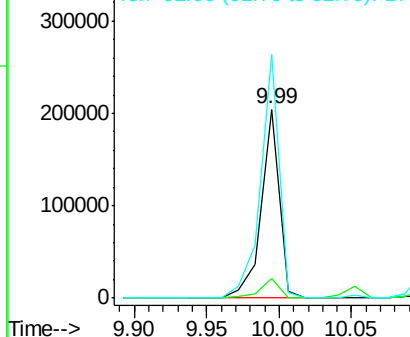
Lab File: BF090383.D

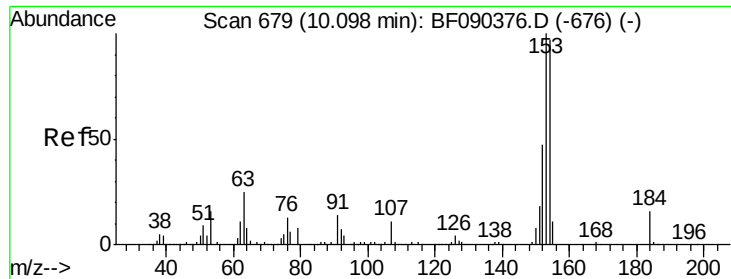
Acq: 5 Oct 2016 16:03

Tgt Ion:	138	Resp:	177018
Ion Ratio	Lower	Upper	
138	100		
108	10.5	9.7	14.5
92	129.0	97.1	145.7



Abundance Ion 138.00 (137.70 to 138.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 92.00 (91.70 to 92.70): BF0





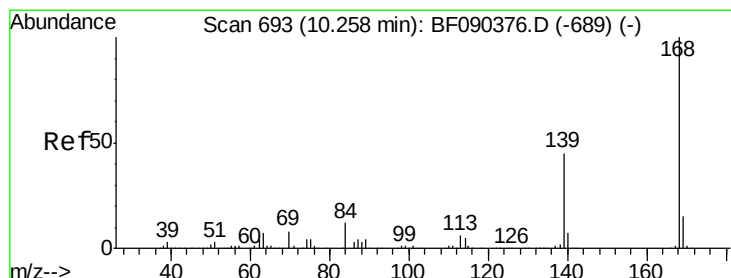
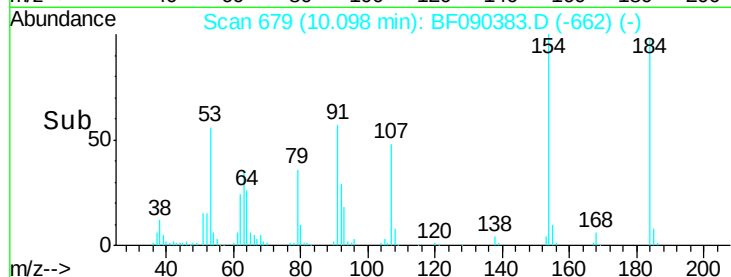
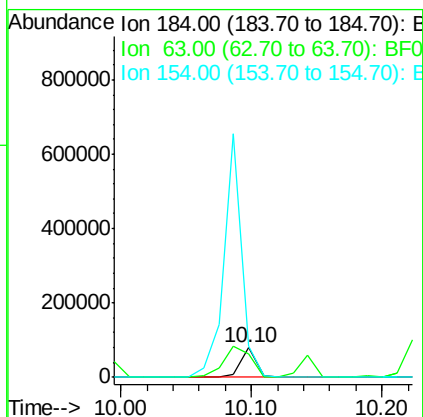
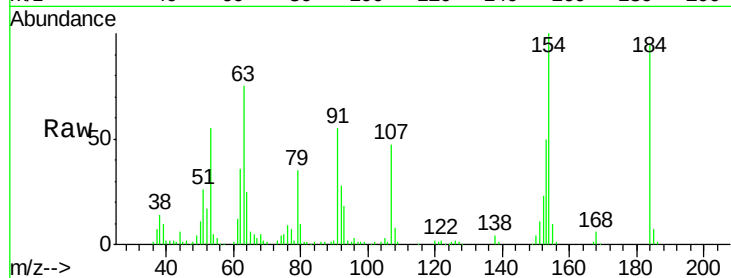
#53
2,4-Dinitrophenol
Concen: 19.54 ng
RT: 10.10 min Scan# 679
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
184	100	66034		
63	78.5	41.9	62.9#	
154	105.3	48.9	73.3#	

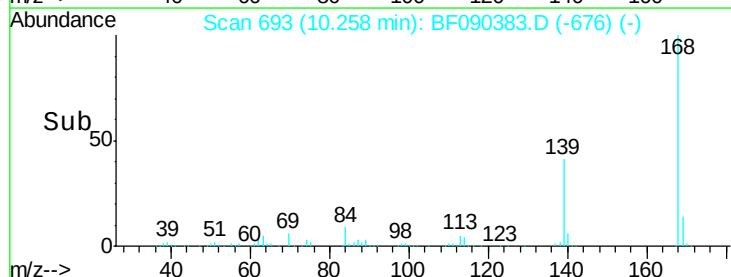
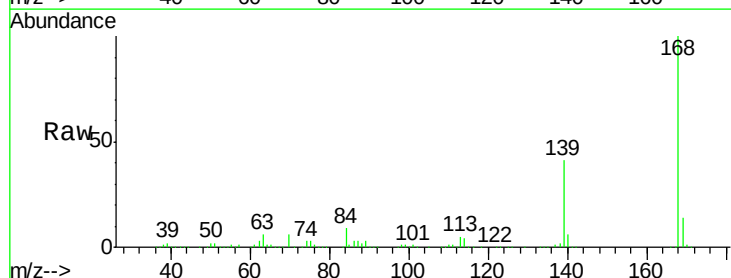
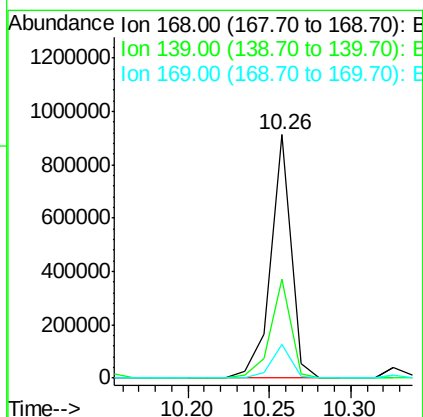
Manual Integrations
APPROVED

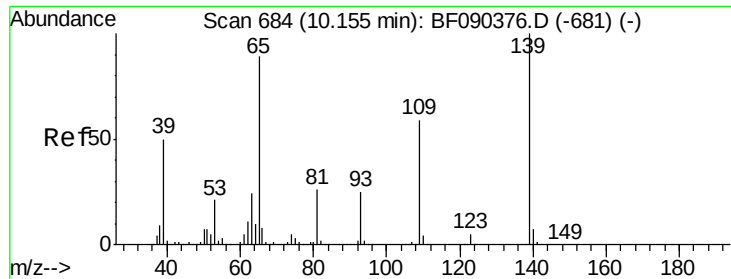
SOHIL
10/6/2016 5:27:29 PM



#54
Dibenzofuran
Concen: 20.50 ng
RT: 10.26 min Scan# 693
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	796538		
139	40.6	29.6	44.4	
169	14.0	11.3	16.9	





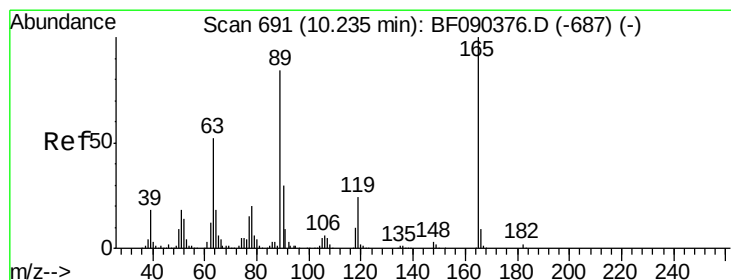
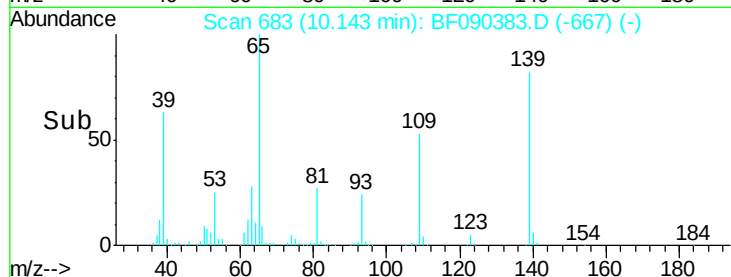
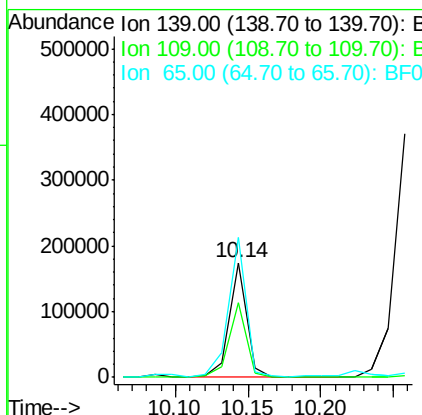
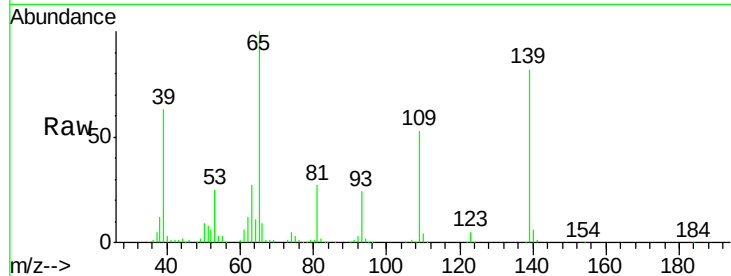
#55
4-Nitrophenol
Concen: 19.15 ng
RT: 10.14 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
139	100	148360		
109	65.0	43.6	83.6	
65	122.3	87.5	127.5	

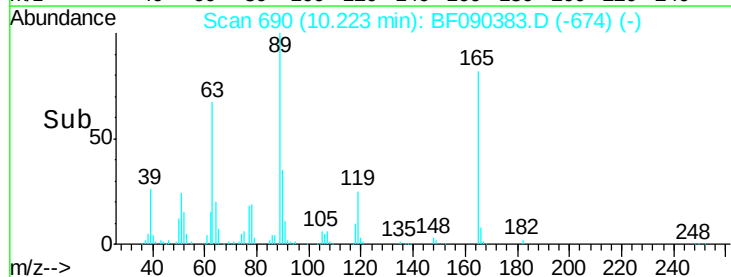
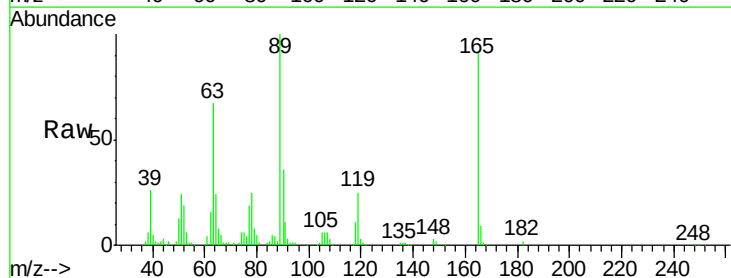
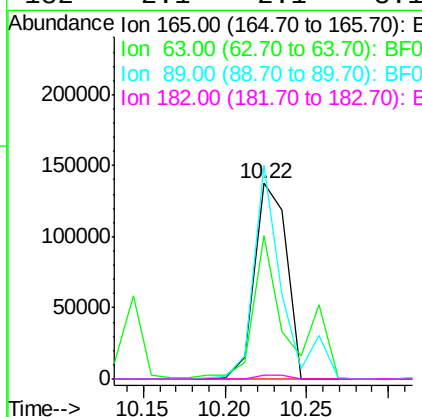
Manual Integrations
APPROVED

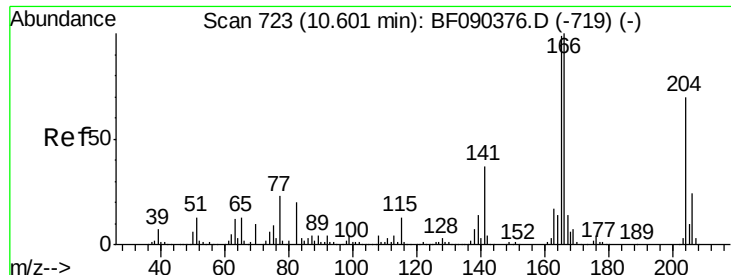
SOHIL
10/6/2016 5:27:29 PM



#56
2,4-Dinitrotoluene
Concen: 18.58 ng
RT: 10.22 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	187448		
63	73.1	17.8	26.6#	
89	109.3	33.2	49.8#	
182	2.1	2.1	3.1	





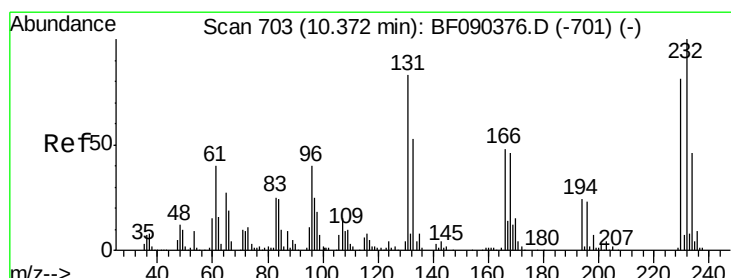
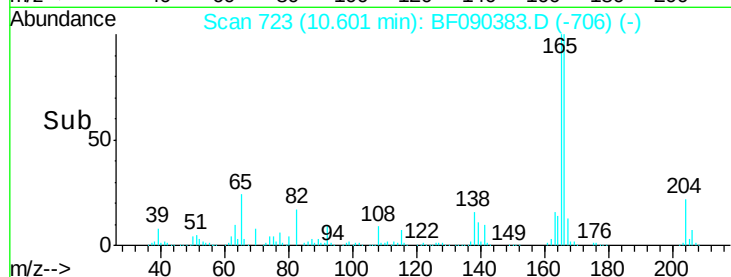
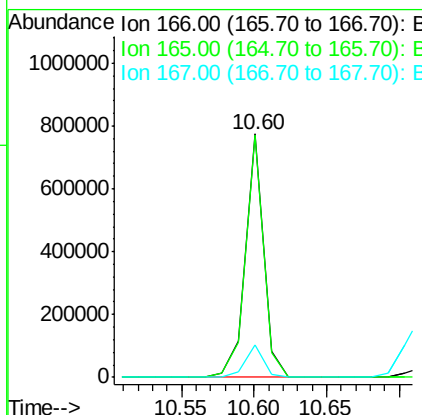
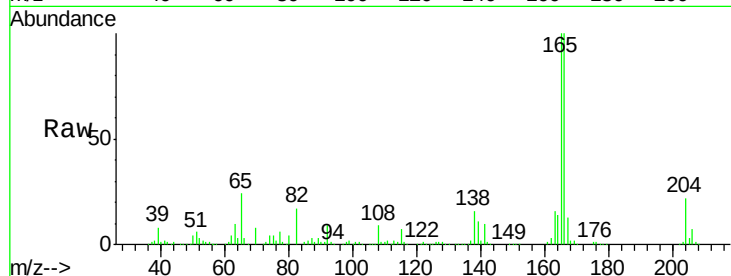
#57
 Fluorene
 Concen: 20.73 ng
 RT: 10.60 min Scan# 723
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
166	100	677032		
165	99.6	79.2	118.8	
167	13.5	11.1	16.7	

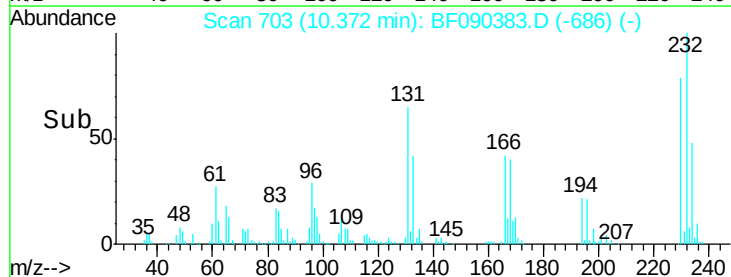
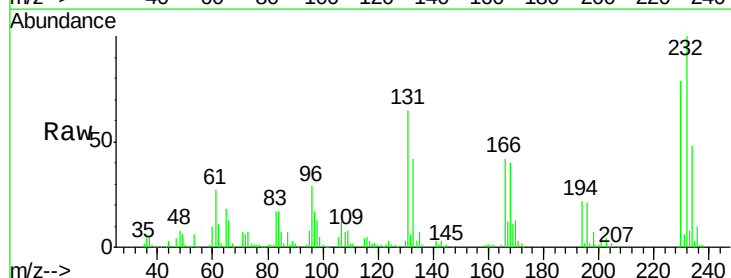
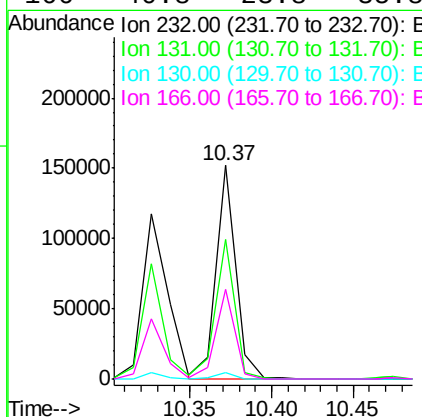
Manual Integrations
 APPROVED

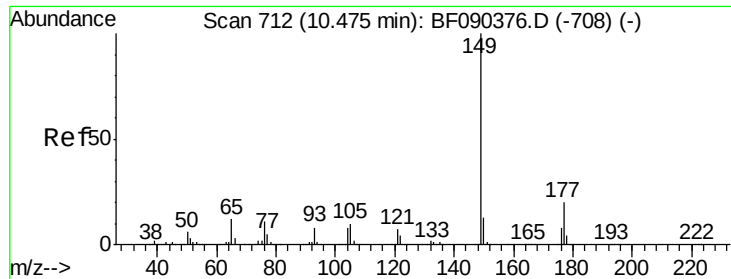
SOHIL
 10/6/2016 5:27:29 PM



#58
 2,3,4,6-Tetrachlorophenol
 Concen: 18.68 ng
 RT: 10.37 min Scan# 703
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
232	100	127925		
131	63.6	34.5	51.7#	
130	2.8	1.6	2.4#	
166	40.8	23.8	35.8#	





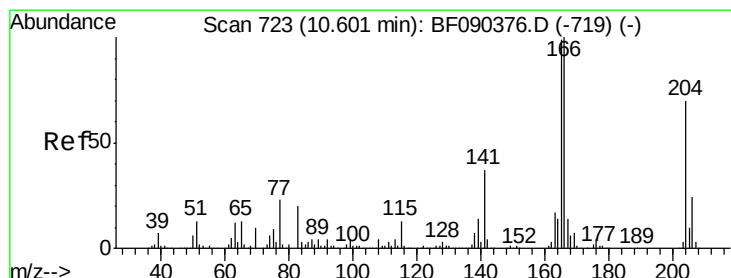
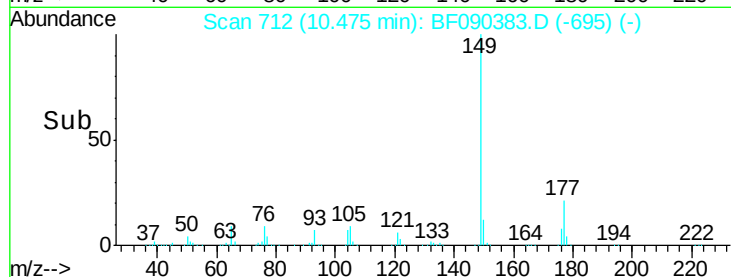
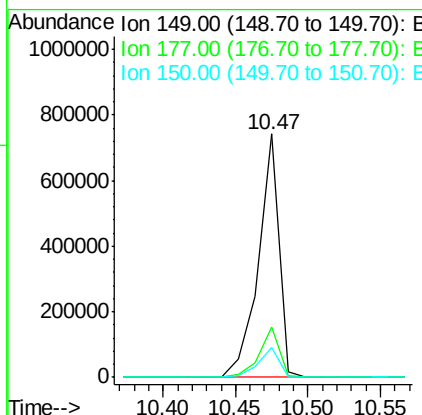
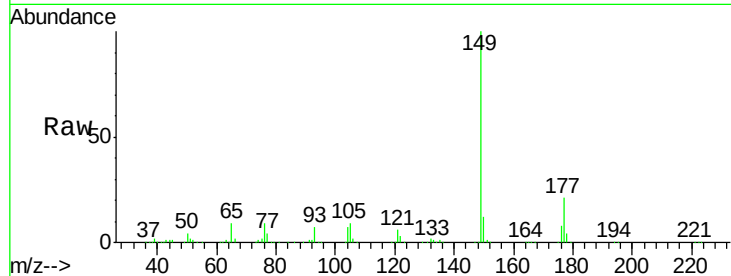
#59
Diethylphthalate
Concen: 20.71 ng
RT: 10.47 min Scan# 712
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
149	100	731592		
177	20.9	21.1	31.7#	
150	12.3	10.2	15.2	

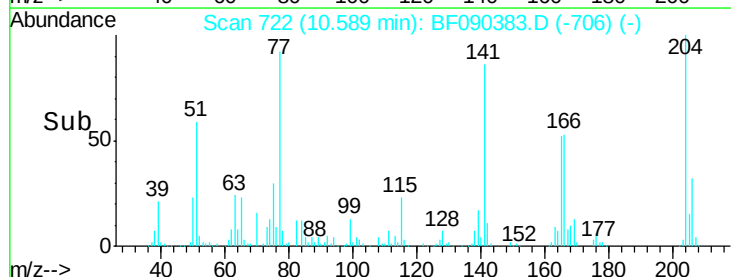
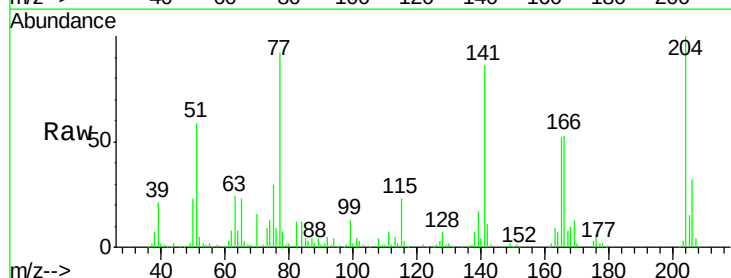
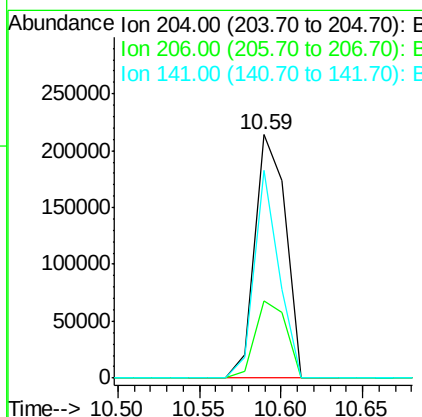
Manual Integrations
APPROVED

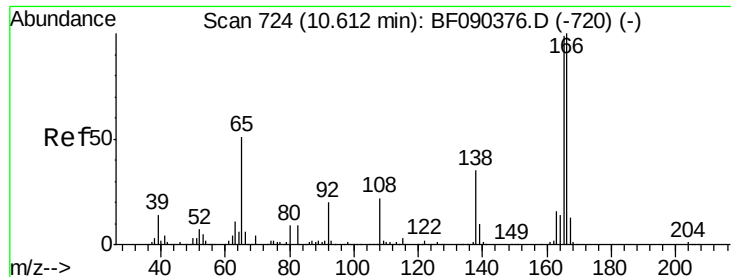
SOHIL
10/6/2016 5:27:29 PM



#60
4-Chlorophenyl-phenylether
Concen: 18.91 ng
RT: 10.59 min Scan# 722
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
204	100	280828		
206	31.8	26.7	40.1	
141	85.6	51.7	77.5#	





#61

4-Nitroaniline

Concen: 20.60 ng

RT: 10.61 min Scan# 724

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

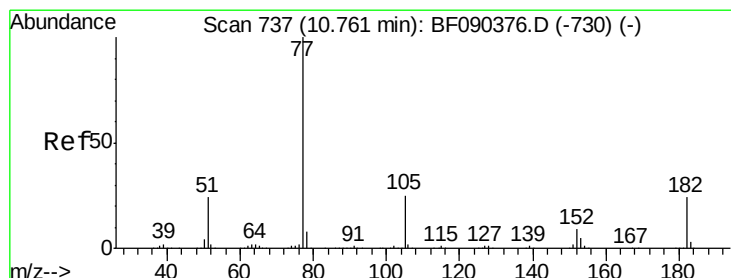
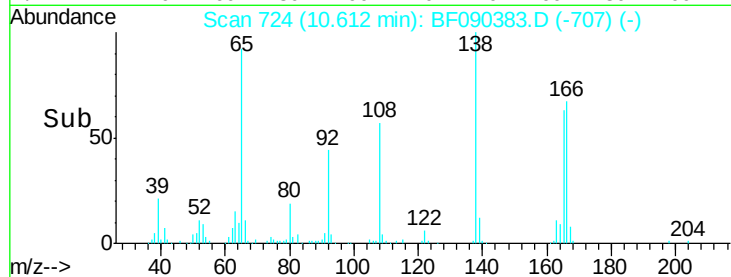
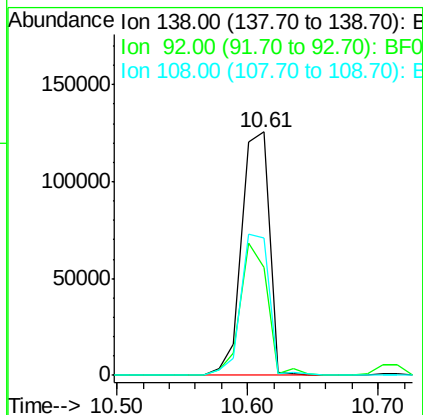
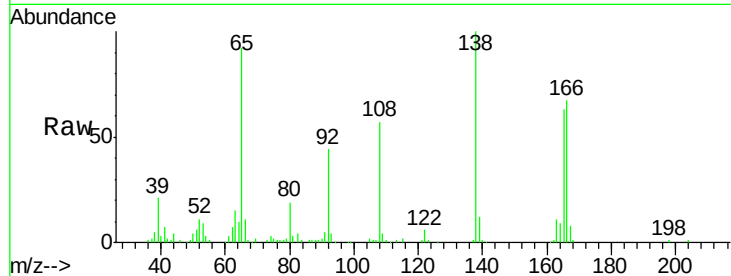
ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:	138	Resp:	183777
Ion Ratio	Lower	Upper	
138	100		
92	44.3	33.2	73.2
108	56.5	48.5	88.5

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



#62

Azobenzene

Concen: 21.06 ng

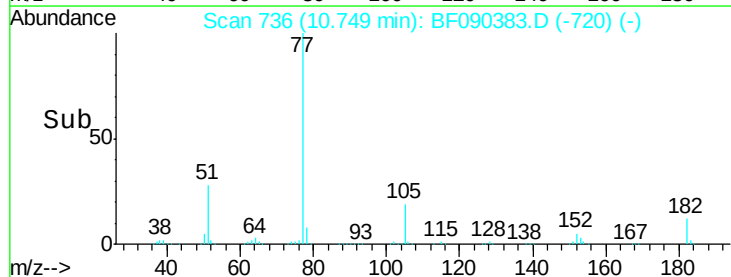
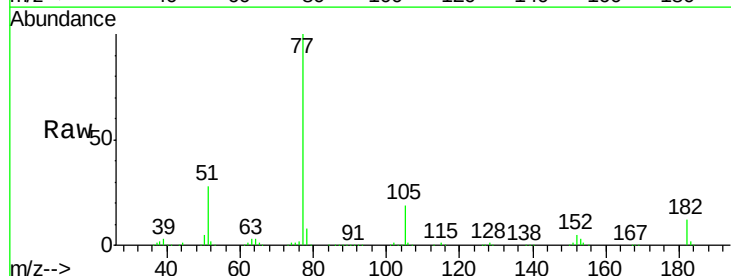
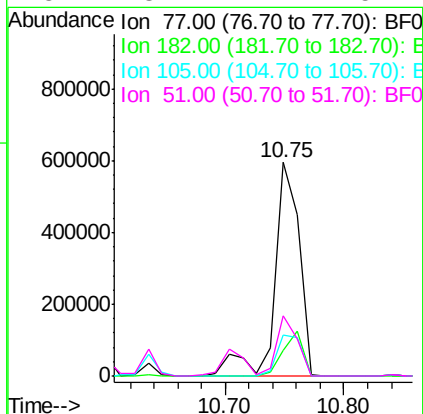
RT: 10.75 min Scan# 736

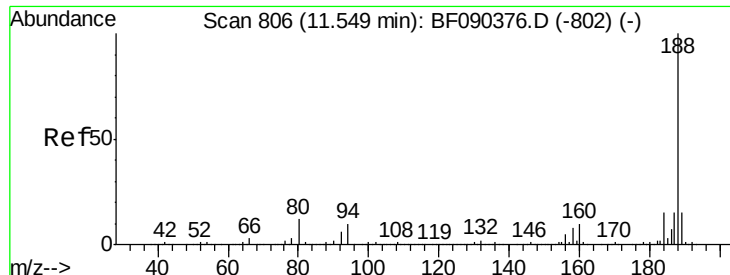
Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Tgt Ion:	77	Resp:	859435
Ion Ratio	Lower	Upper	
77	100		
182	11.9	3.2	43.2
105	19.0	2.9	42.9
51	28.2	14.2	54.2





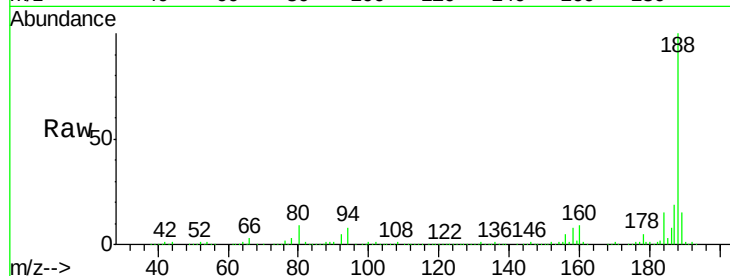
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.55 min Scan# 806
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

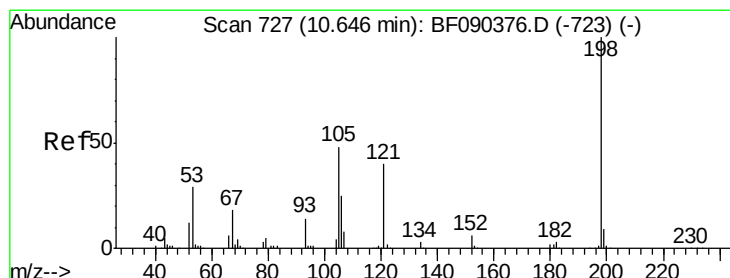
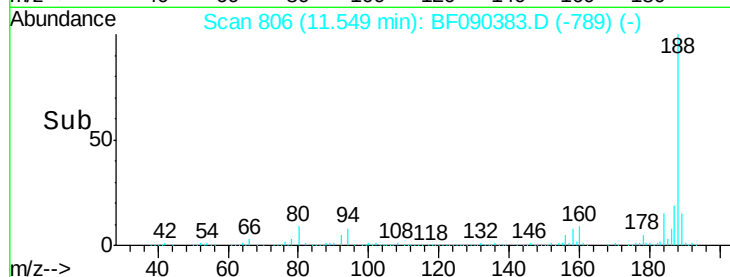
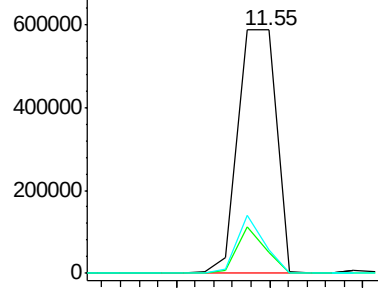
Tot Ion	Ratio	Resp	Lower	Upper
188	100	837810		
94	8.4		8.2	12.2
80	9.4		8.8	13.2

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM

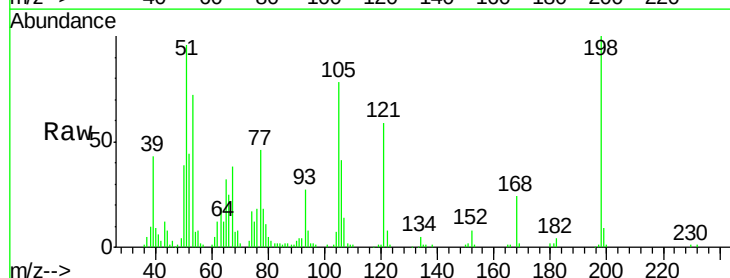


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

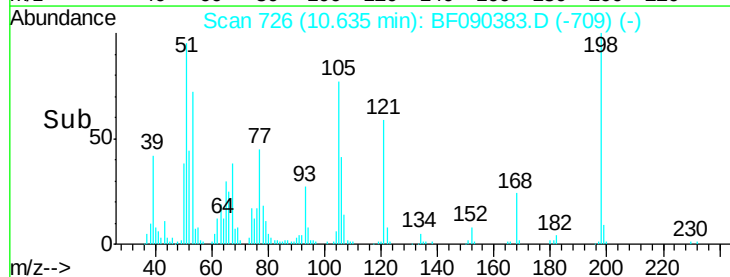
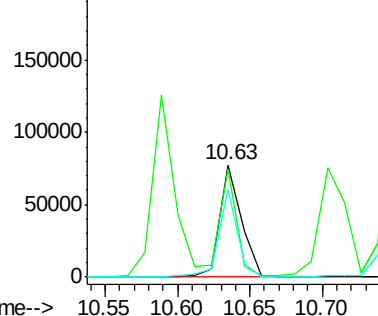


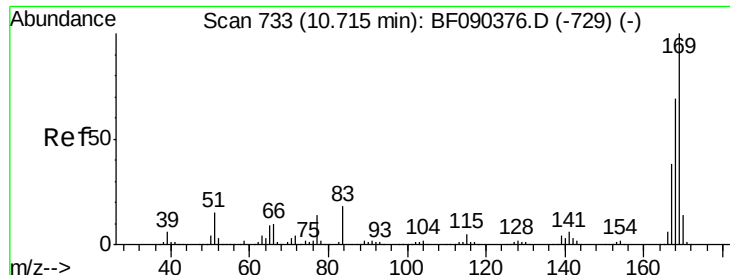
#64
4,6-Dinitro-2-methylphenol
Concen: 18.01 ng
RT: 10.63 min Scan# 726
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
198	100	80216		
51	95.6		67.3	107.3
105	77.9		42.6	82.6



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





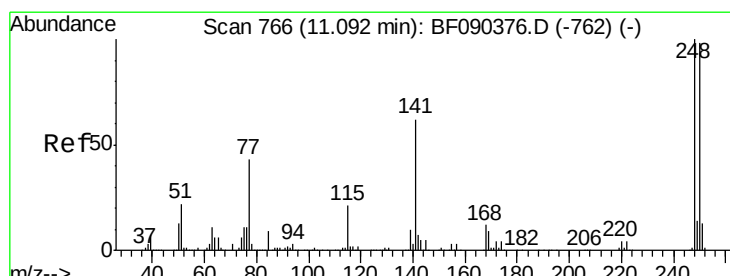
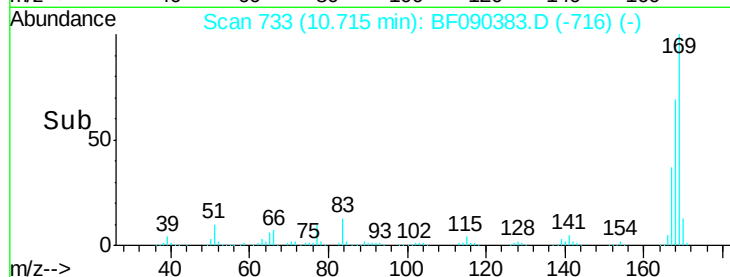
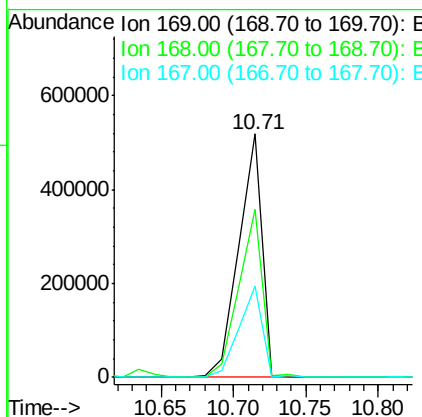
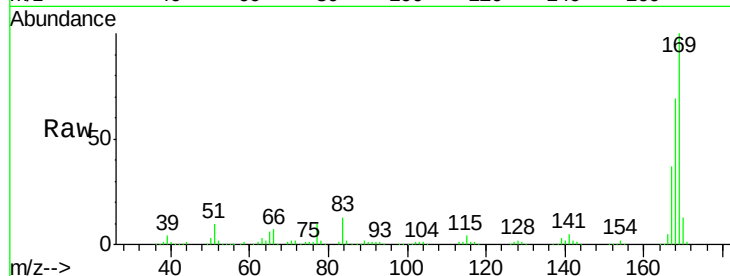
#65
n-Nitrosodiphenylamine
Concen: 20.45 ng
RT: 10.71 min Scan# 733
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
169	100	574141		
168	69.1		53.8	80.6
167	37.3		29.8	44.8

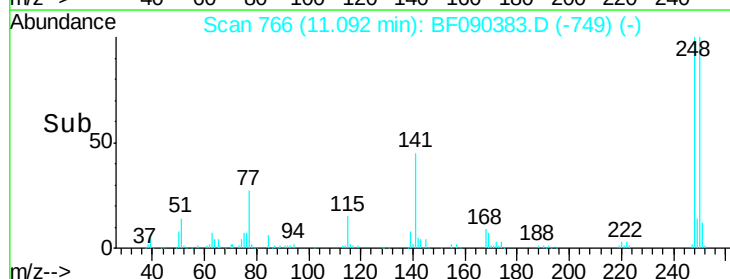
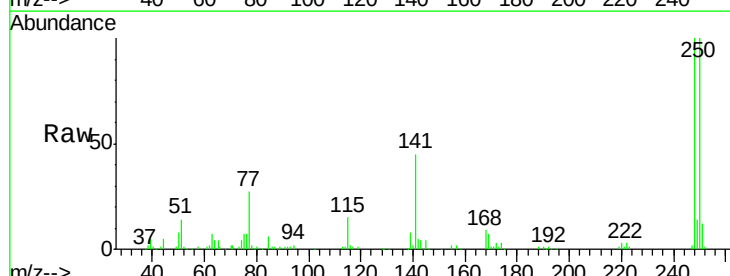
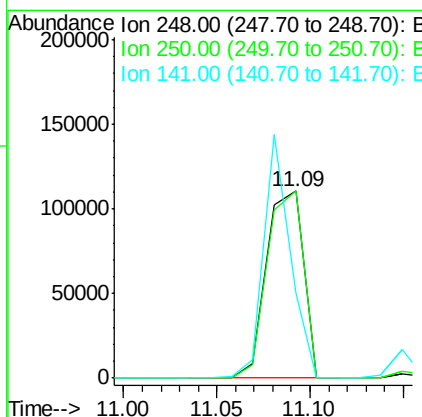
Manual Integrations
APPROVED

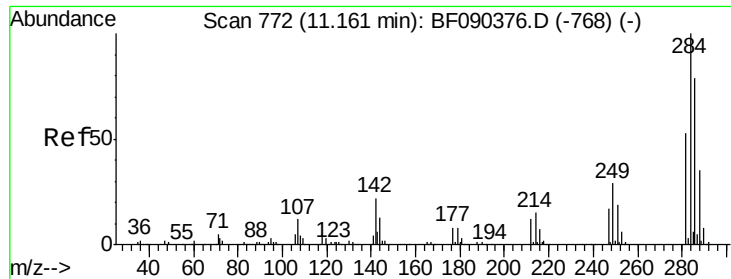
SOHIL
10/6/2016 5:27:29 PM



#66
4-Bromophenyl-phenylether
Concen: 18.53 ng
RT: 11.09 min Scan# 766
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
248	100	152218		
250	100.2		76.5	114.7
141	45.4		59.8	89.6





#67

Hexachlorobenzene

Concen: 18.83 ng

RT: 11.15 min Scan# 771

Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

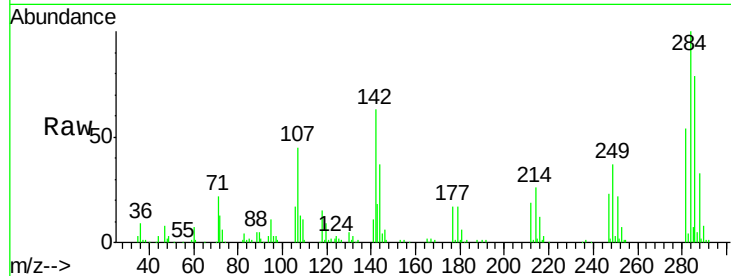
ClientSampleId :

LOQ-SOIL2016--02-QT4

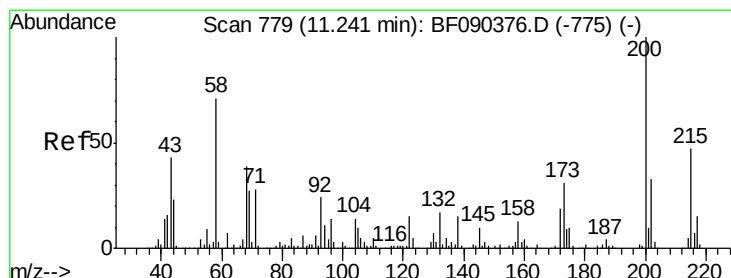
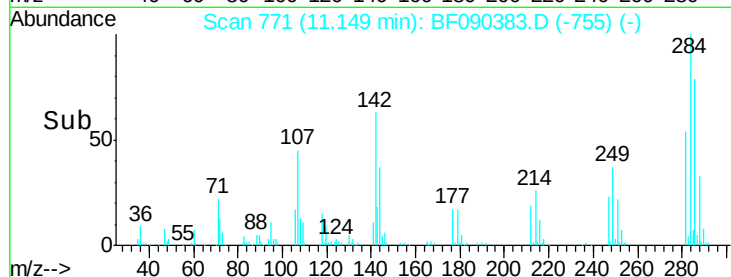
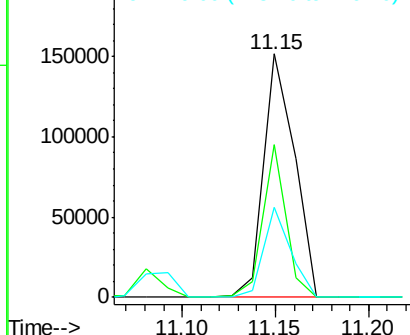
Tot Ion:	284	Resp:	172229
Ion Ratio	Lower	Upper	
284	100		
142	63.0	23.1	34.7#
249	36.8	26.3	39.5

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



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



#68

Atrazine

Concen: 18.70 ng

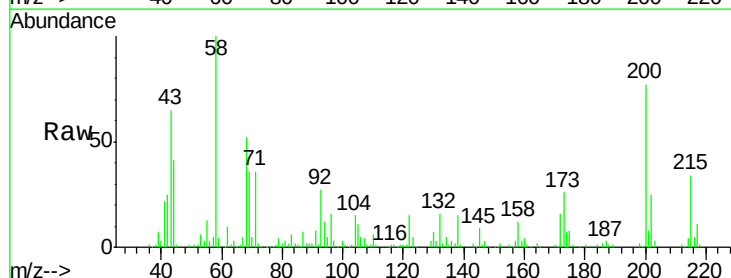
RT: 11.23 min Scan# 778

Delta R.T. -0.01 min

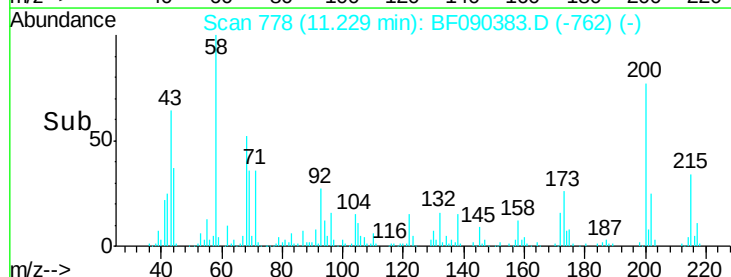
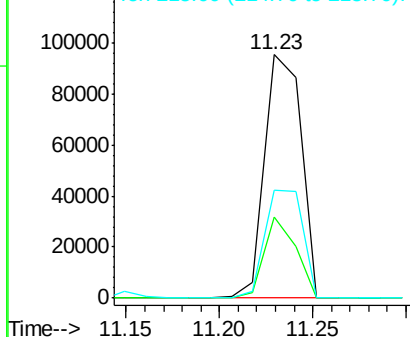
Lab File: BF090383.D

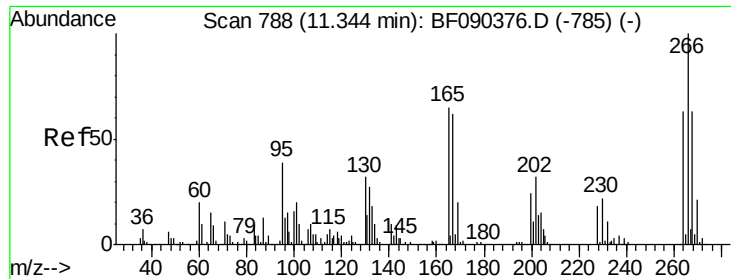
Acq: 5 Oct 2016 16:03

Tgt Ion:	200	Resp:	129457
Ion Ratio	Lower	Upper	
200	100		
173	33.2	9.0	49.0
215	44.3	24.8	64.8



Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E





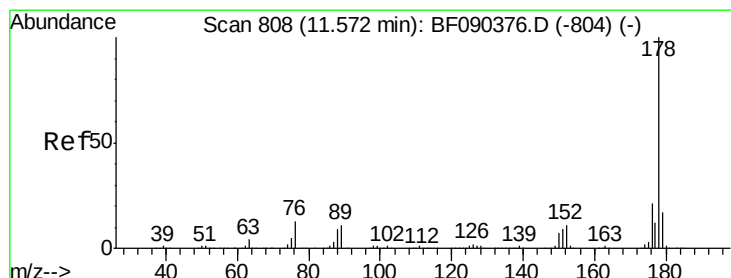
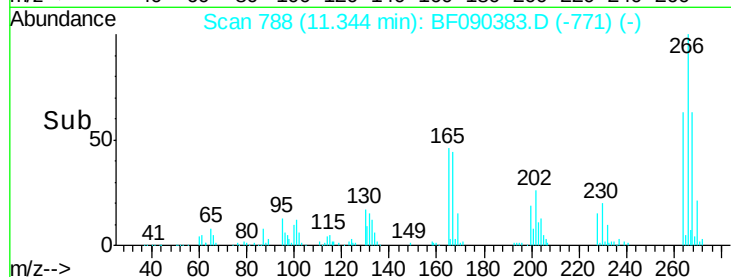
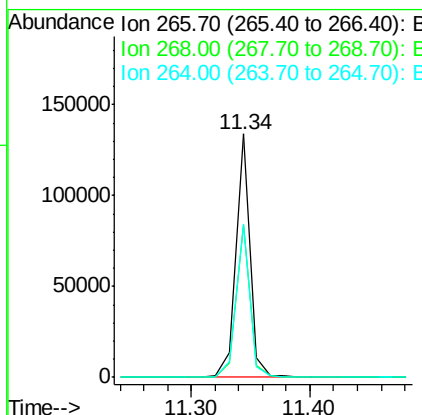
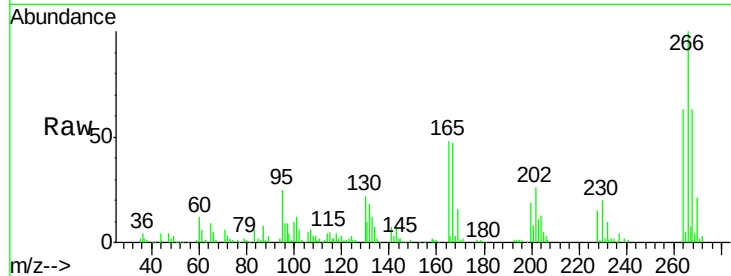
#69
 Pentachlorophenol
 Concen: 20.34 ng
 RT: 11.34 min Scan# 788
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.9	76.3
264	62.6	51.5	77.3

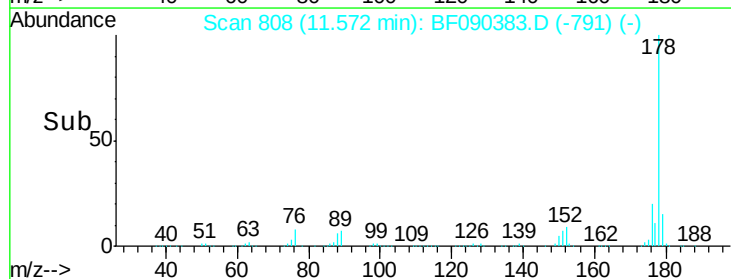
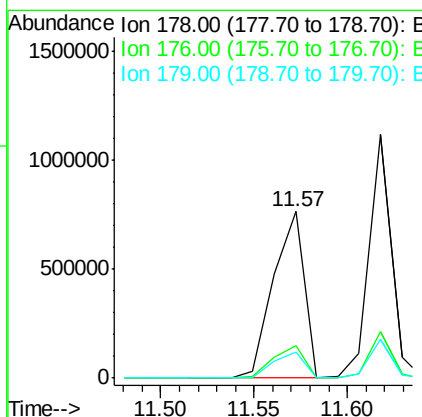
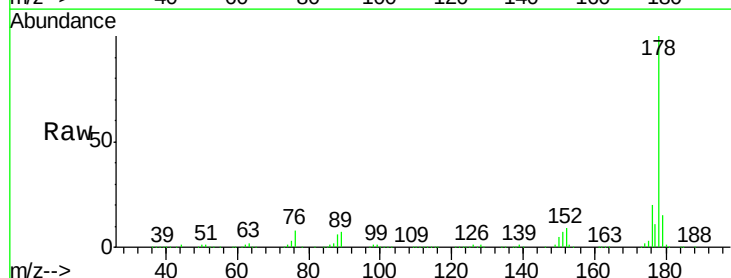
Manual Integrations
 APPROVED

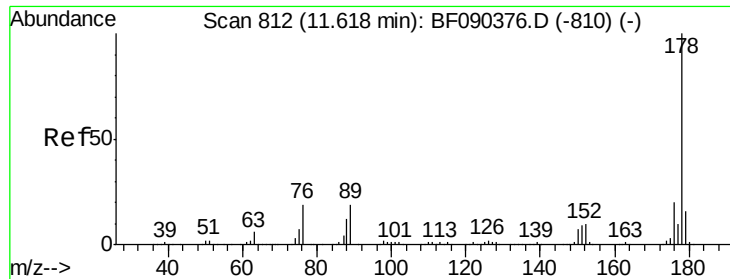
SOHIL
 10/6/2016 5:27:29 PM



#70
 Phenanthrene
 Concen: 20.65 ng
 RT: 11.57 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	17.3	25.9
179	15.3	13.8	20.6





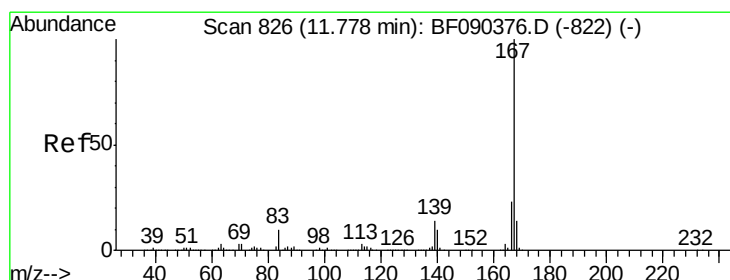
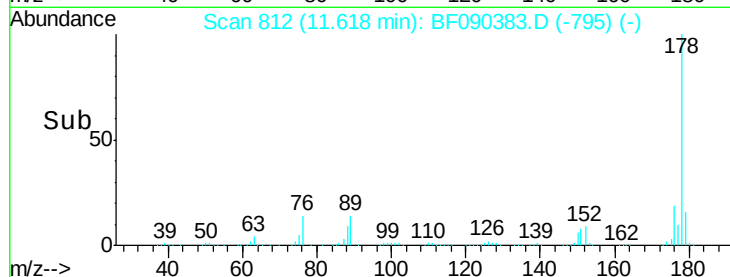
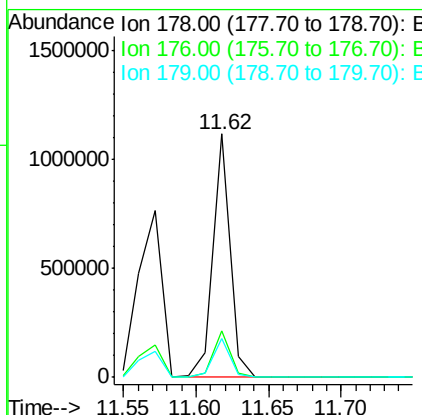
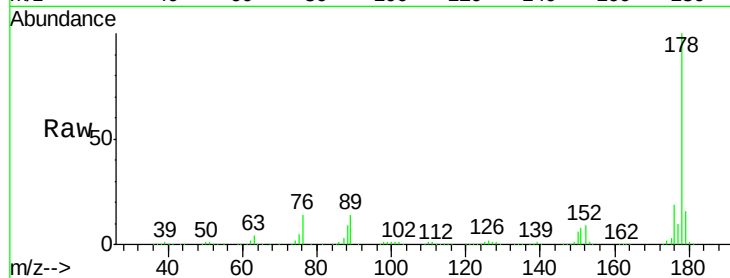
#71
 Anthracene
 Concen: 20.86 ng
 RT: 11.62 min Scan# 812
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.8	25.2
179	15.8	13.4	20.2

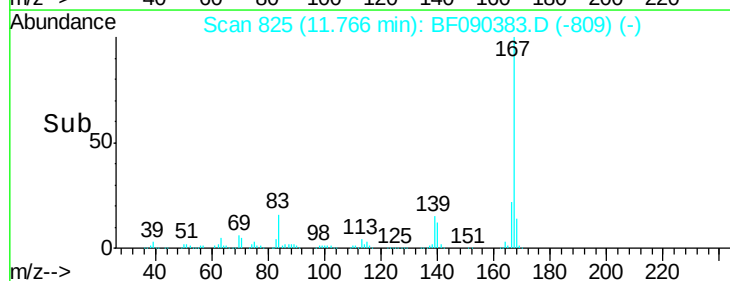
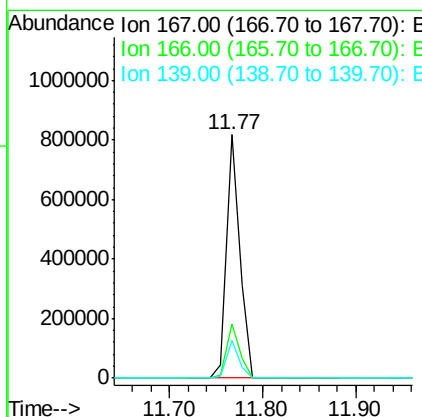
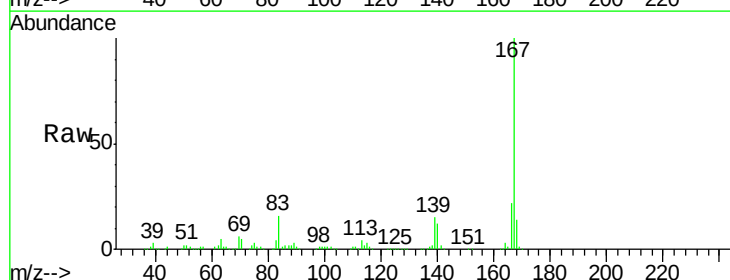
Manual Integrations
 APPROVED

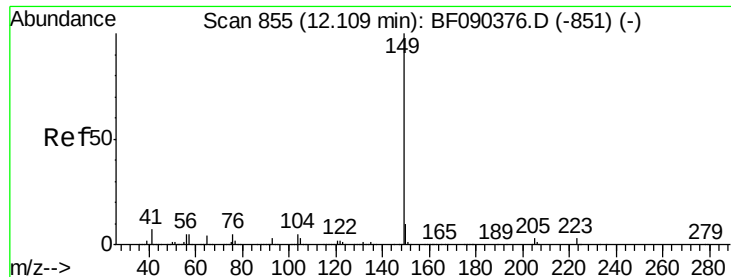
SOHIL
 10/6/2016 5:27:29 PM



#72
 Carbazole
 Concen: 19.91 ng
 RT: 11.77 min Scan# 825
 Delta R.T. -0.01 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	19.1	28.7
139	15.3	12.1	18.1





#73

Di-n-butylphthalate

Concen: 22.67 ng

RT: 12.11 min Scan# 855

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:149 Resp: 1122773

Ion Ratio Lower Upper

149 100

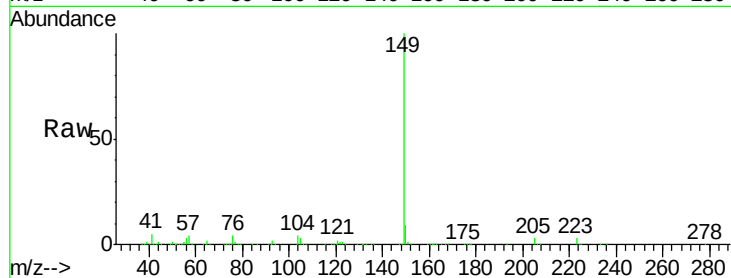
150 9.2 8.6 12.8

104 4.1 4.7 7.1#

Manual Integrations
APPROVED

SOHIL

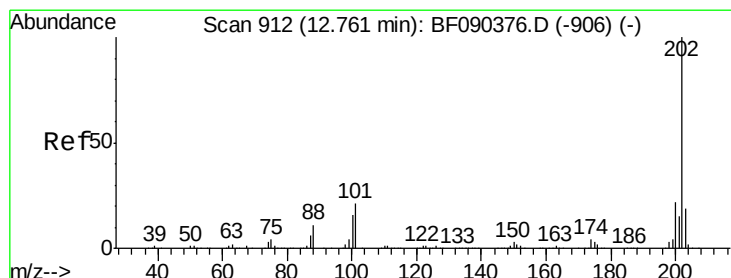
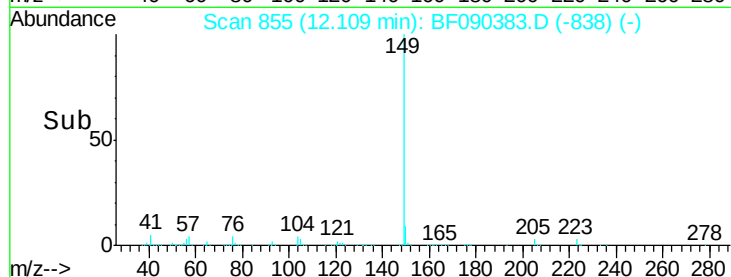
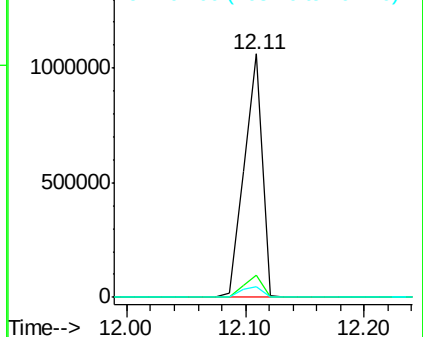
10/6/2016 5:27:29 PM



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 21.83 ng

RT: 12.76 min Scan# 912

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

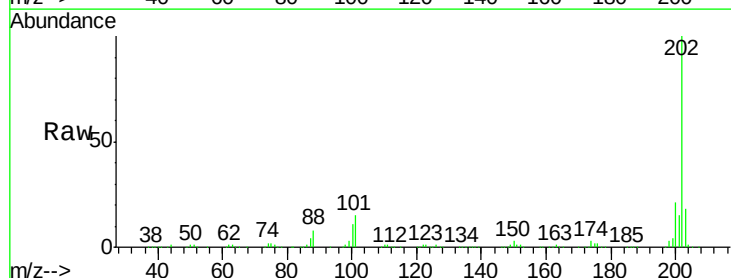
Tgt Ion:202 Resp: 918465

Ion Ratio Lower Upper

202 100

101 14.8 0.0 37.2

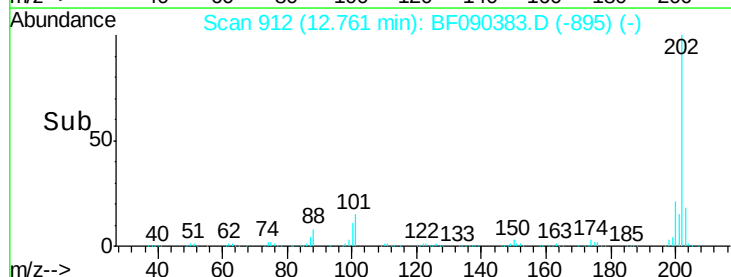
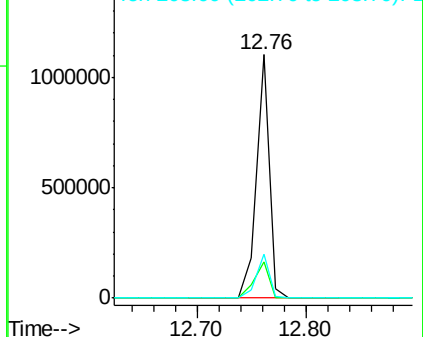
203 18.0 0.0 39.3

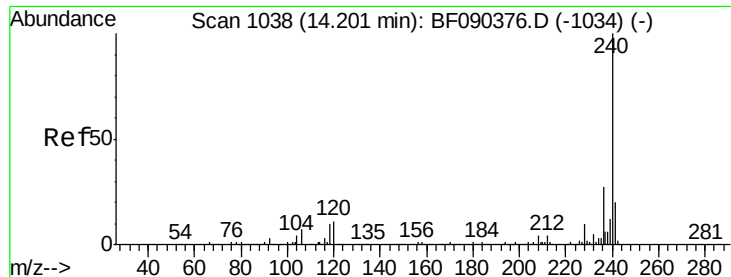


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:240 Resp: 681978

Ion Ratio Lower Upper

240 100

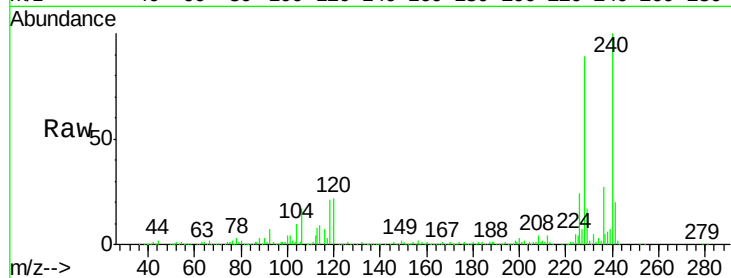
120 22.4 8.6 13.0#

236 27.0 21.6 32.4

Manual Integrations
APPROVED

SOHIL

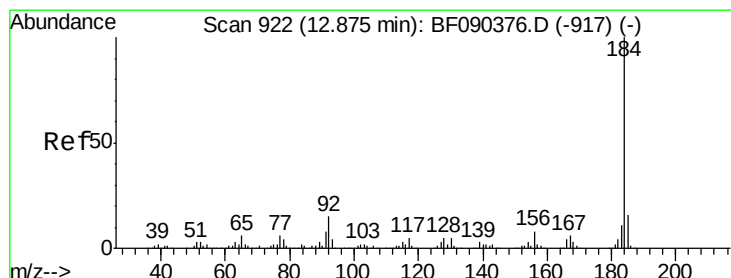
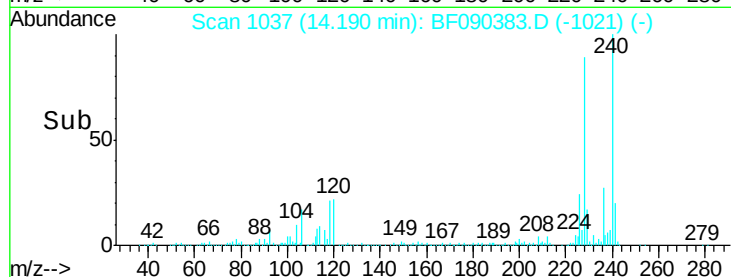
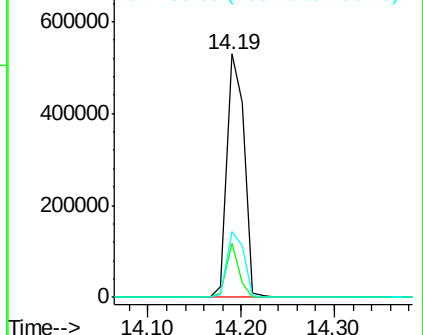
10/6/2016 5:27:29 PM



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: 19.72 ng

RT: 12.88 min Scan# 922

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

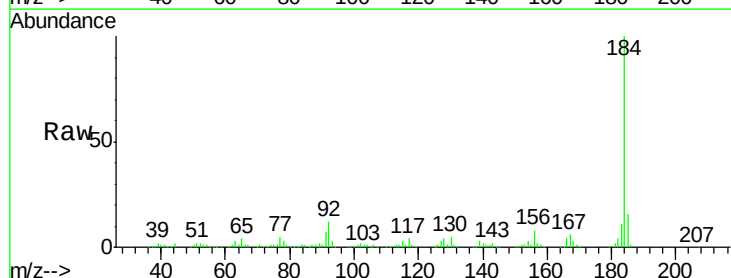
Tgt Ion:184 Resp: 353679

Ion Ratio Lower Upper

184 100

185 15.5 11.8 17.8

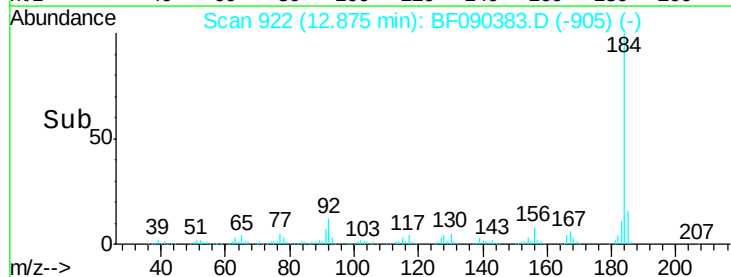
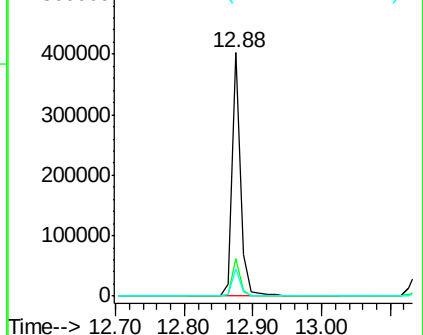
183 11.3 9.6 14.4

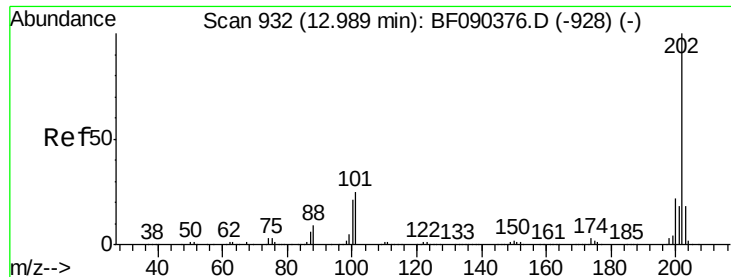


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





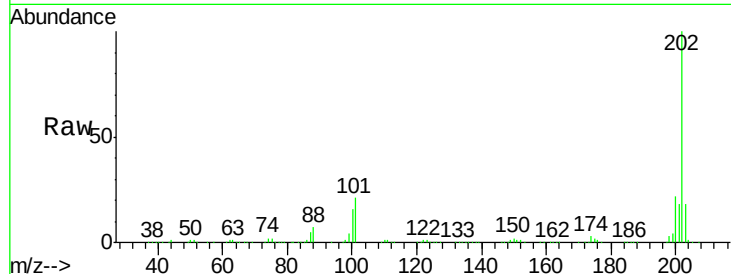
#77
Pvrene
Concen: 19.92 ng
RT: 12.99 min Scan# 932
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

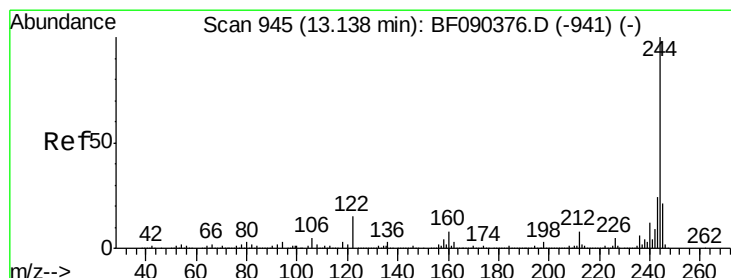
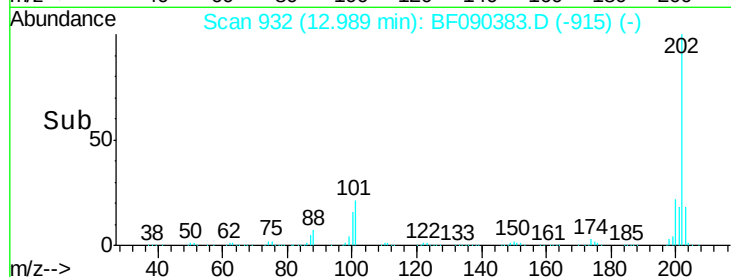
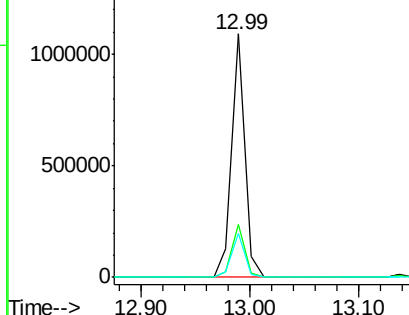
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	18.5	27.7
203	18.1	15.0	22.6

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



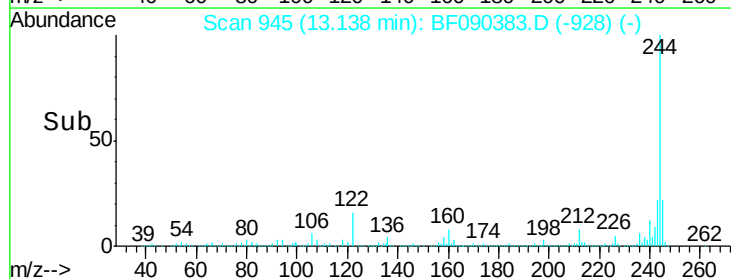
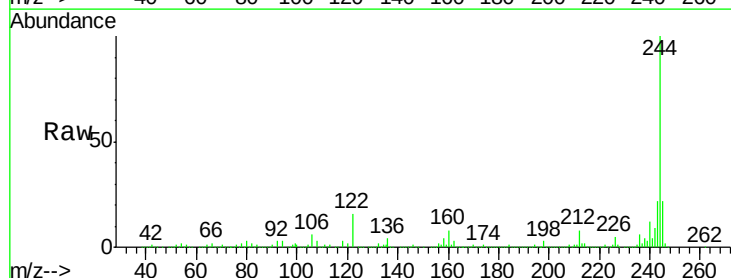
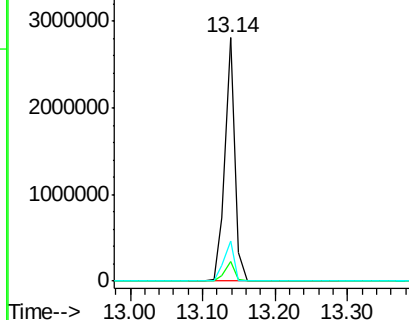
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

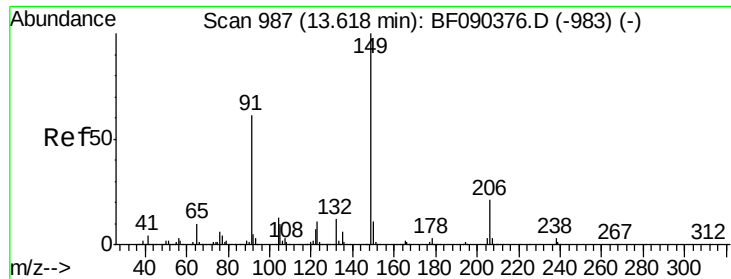


#78
Terphenyl-d14
Concen: 88.49 ng
RT: 13.14 min Scan# 945
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.8	10.2
122	16.3	13.3	19.9

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





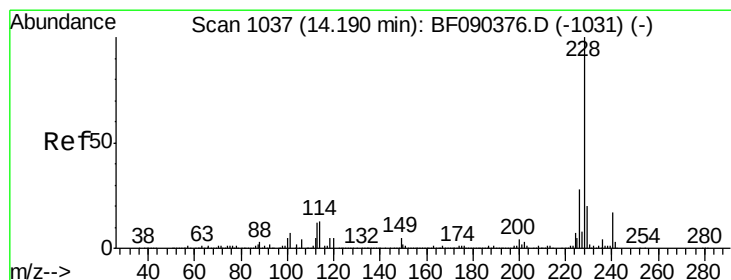
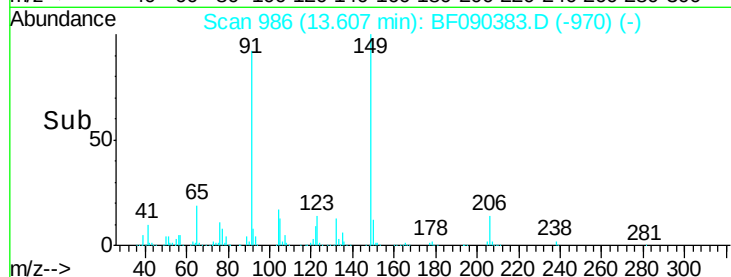
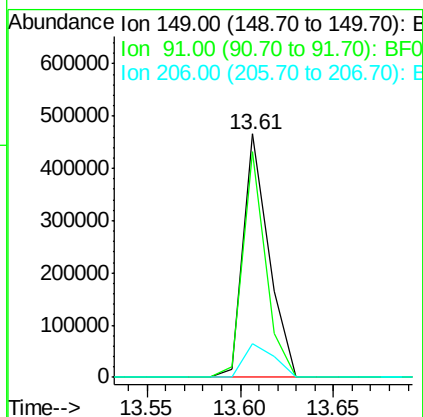
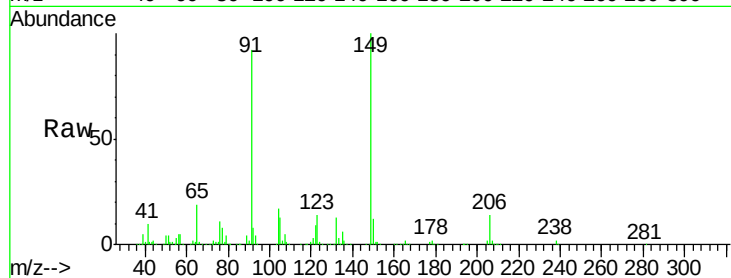
#79
Butylbenzylphthalate
Concen: 19.06 ng
RT: 13.61 min Scan# 986
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
149	100		
91	92.4	51.8	77.8#
206	13.7	18.0	27.0#

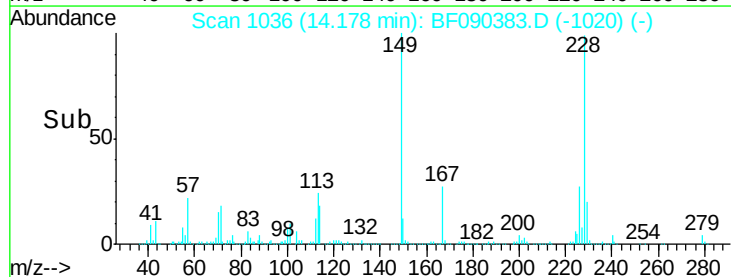
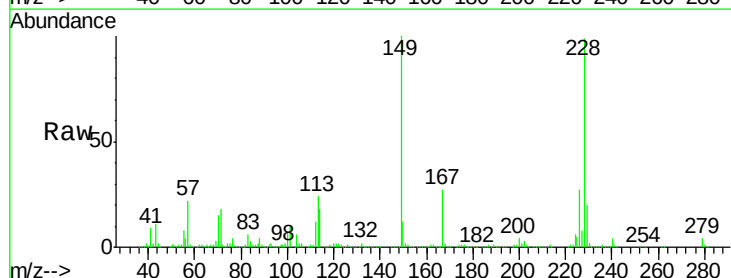
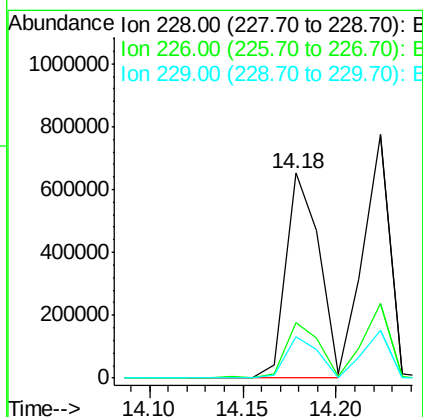
Manual Integrations
APPROVED

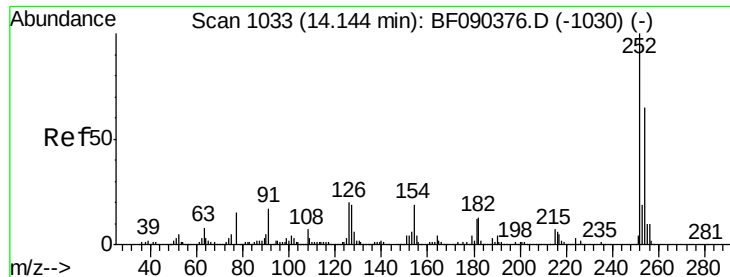
SOHIL
10/6/2016 5:27:29 PM



#80
Benzo(a)anthracene
Concen: 21.18 ng
RT: 14.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	23.6	35.4
229	20.2	16.6	25.0





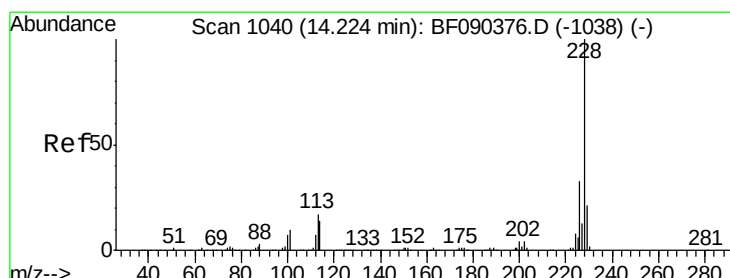
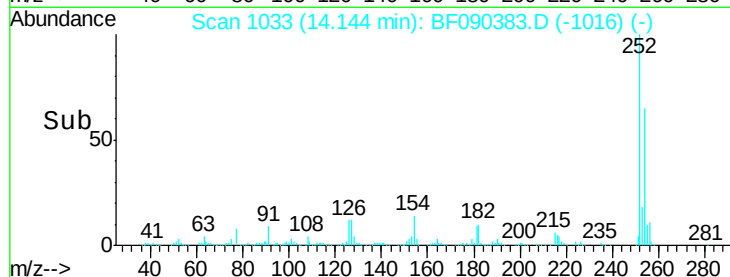
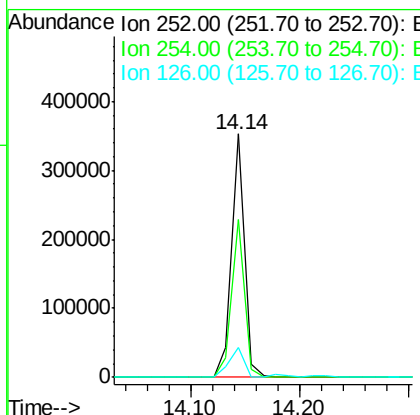
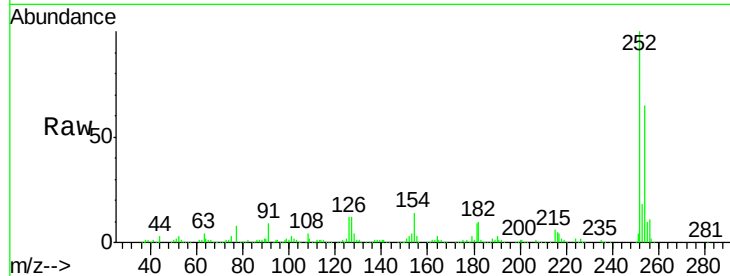
#81
 3,3'-Dichlorobenzidine
 Concen: 20.80 ng
 RT: 14.14 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp	Lower	Upper
252	100	288521		
254	64.8	52.1	78.1	
126	12.3	4.2	6.4	

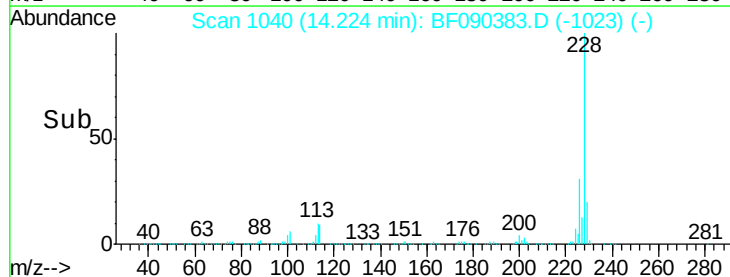
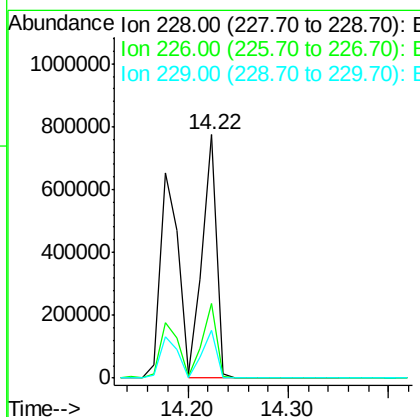
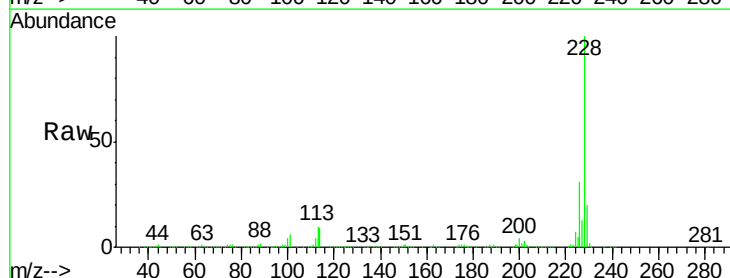
Manual Integrations
 APPROVED

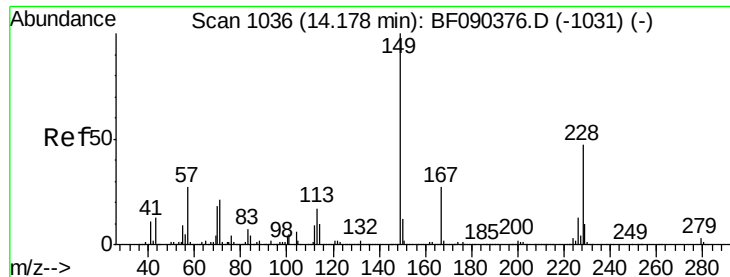
SOHIL
 10/6/2016 5:27:29 PM



#82
 Chrysene
 Concen: 21.66 ng
 RT: 14.22 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	762684		
226	30.9	25.8	38.6	
229	19.8	16.9	25.3	





#83

Bis(2-ethylhexyl)phthalate

Concen: 20.82 ng

RT: 14.18 min Scan# 1036

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016--02-QT4

Tot Ion:149 Resp: 690388

Ion Ratio Lower Upper

149 100

167 27.3 21.5 32.3

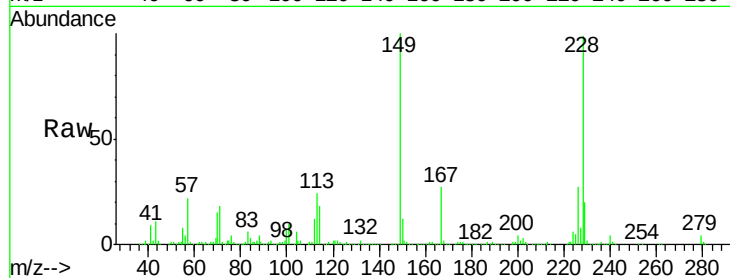
279 3.7 2.6 3.8

Manual Integrations

APPROVED

SOHIL

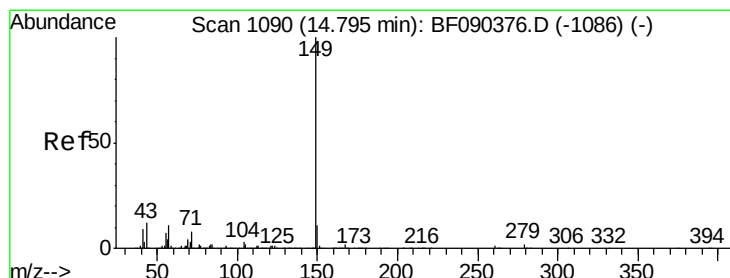
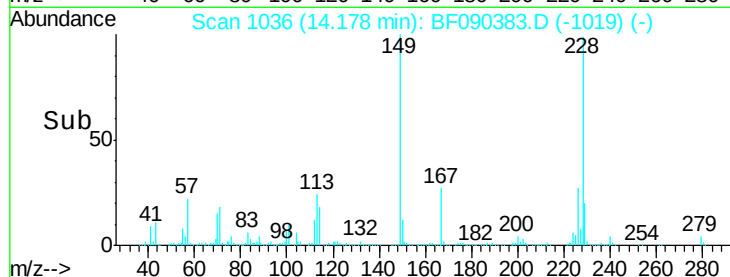
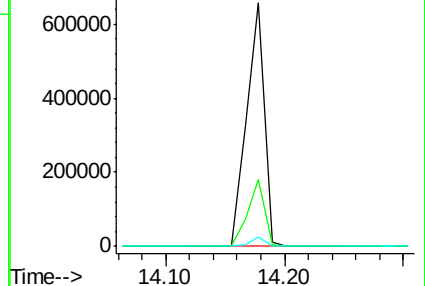
10/6/2016 5:27:29 PM



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 22.21 ng

RT: 14.80 min Scan# 1090

Delta R.T. 0.00 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

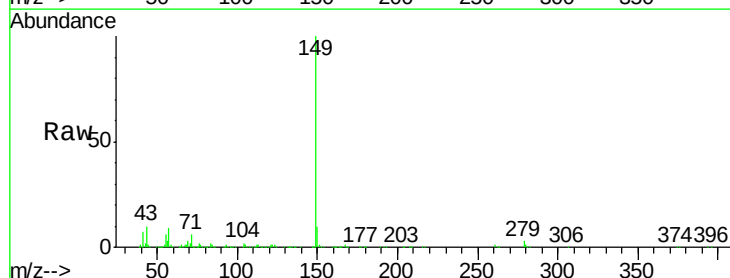
Tgt Ion:149 Resp: 1092101

Ion Ratio Lower Upper

149 100

167 1.4 1.3 1.9

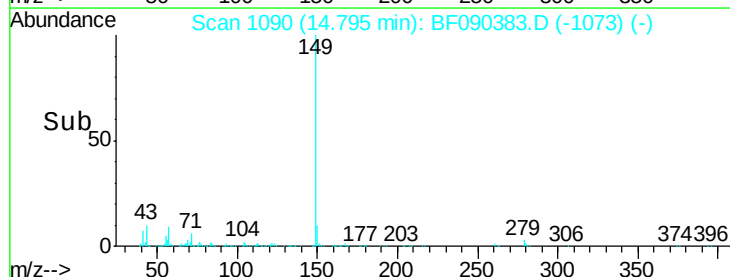
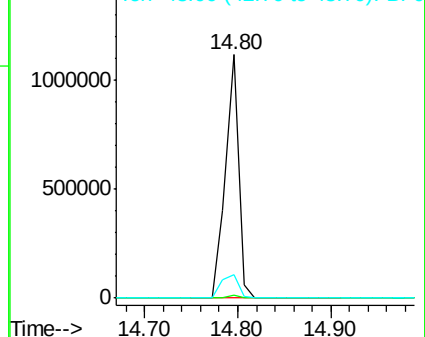
43 12.7 11.8 17.8

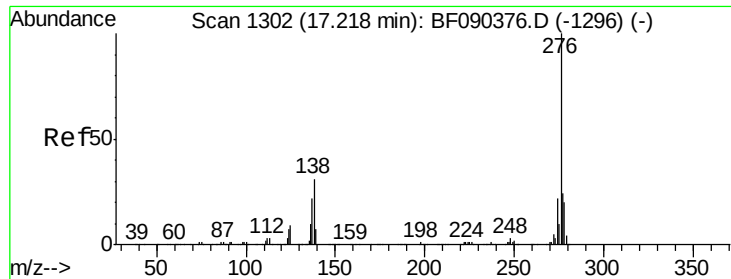


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0





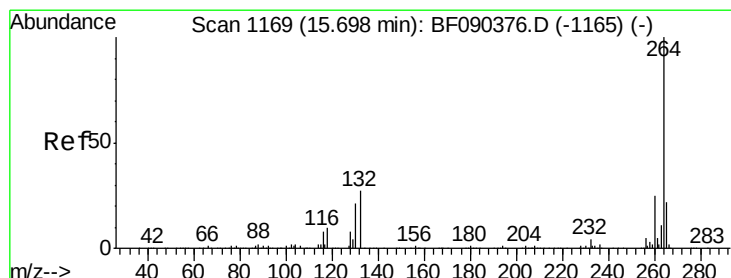
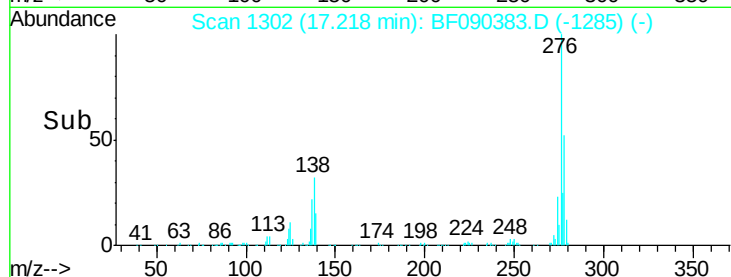
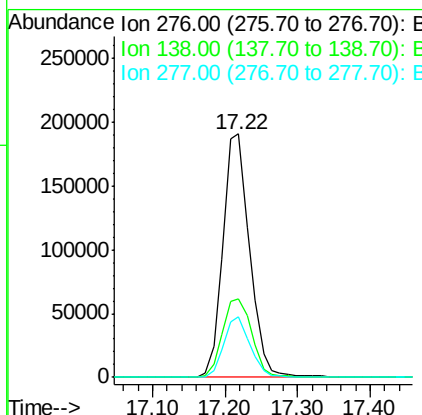
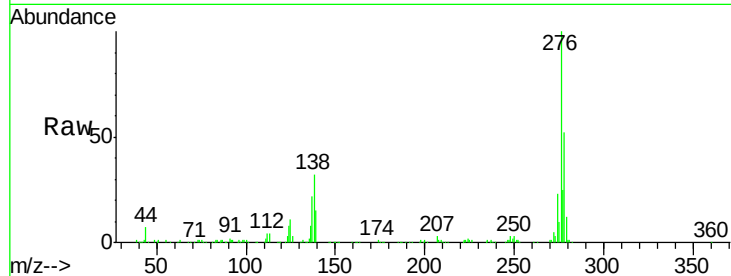
#85
Indeno(1,2,3-cd)pyrene
Concen: 19.45 ng
RT: 17.22 min Scan# 1302
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
276	100		
138	35.7	23.8	35.8
277	24.5	20.4	30.6

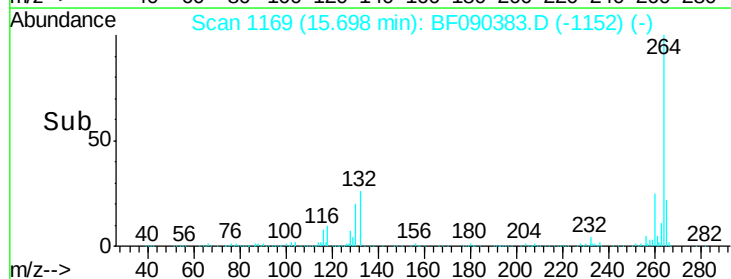
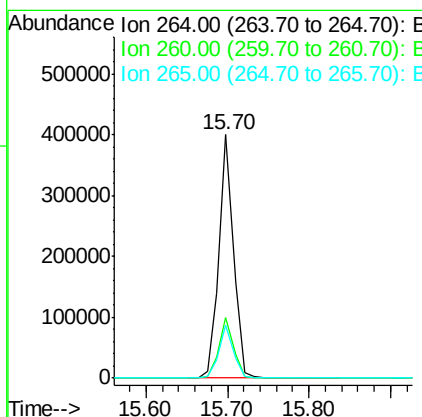
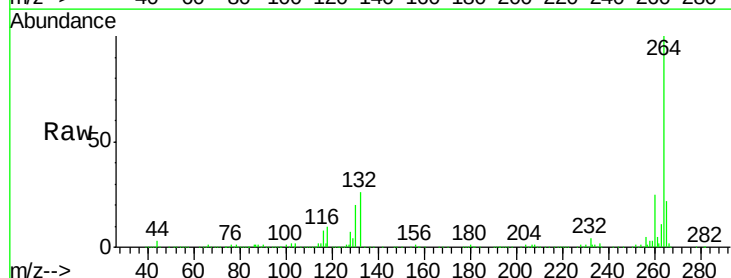
Manual Integrations
APPROVED

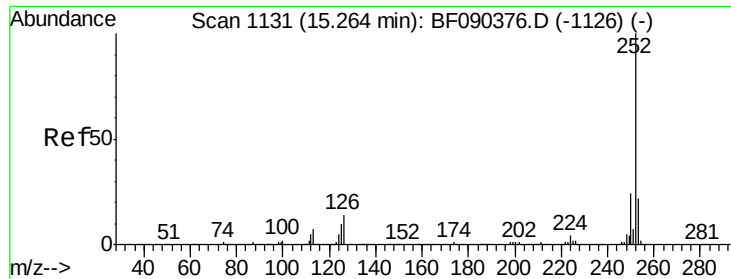
SOHIL
10/6/2016 5:27:29 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.70 min Scan# 1169
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.3	28.9
265	21.9	17.4	26.0





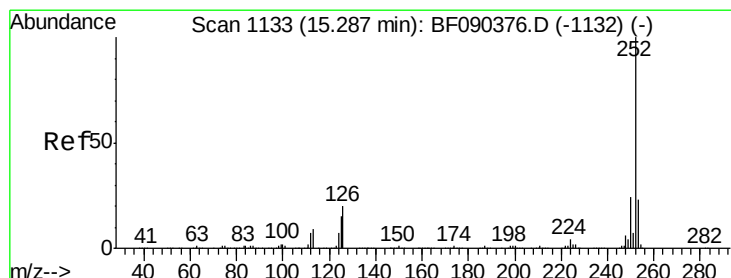
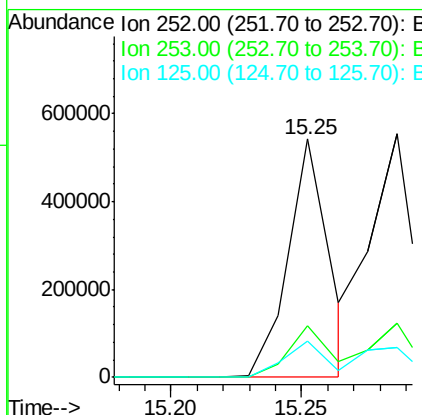
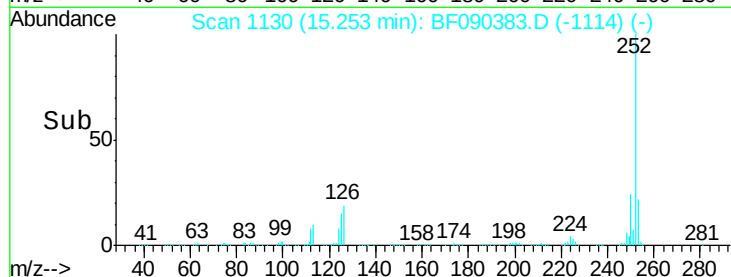
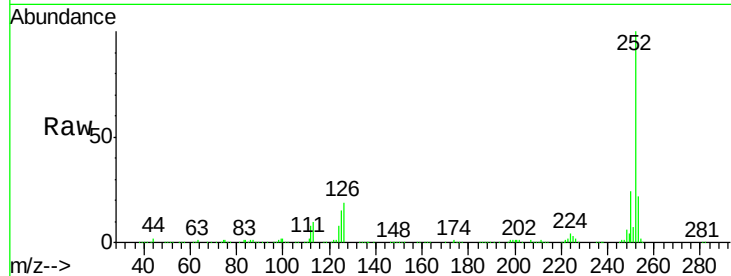
#87
Benzo(b)fluoranthene
Concen: 18.63 ng
RT: 15.25 min Scan# 1130
Delta R.T. -0.01 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	21.9	18.2	27.2
125	15.0	7.0	10.4

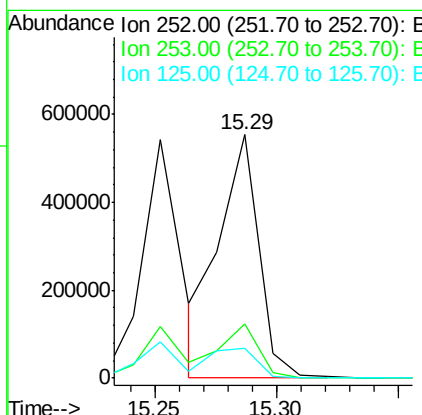
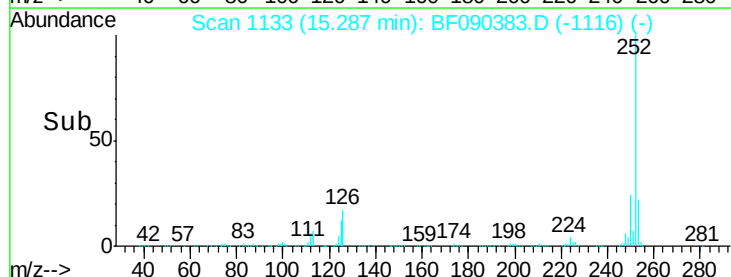
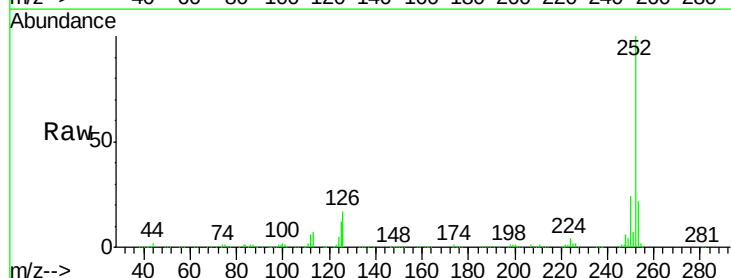
Manual Integrations
APPROVED

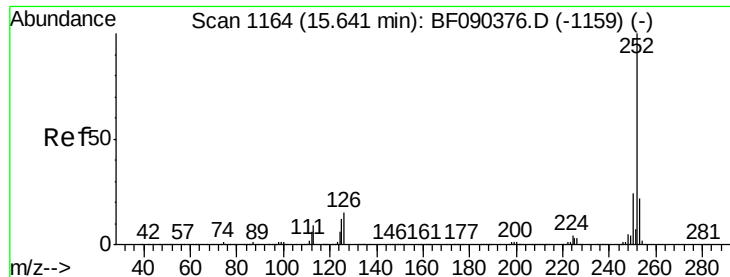
SOHIL
10/6/2016 5:27:29 PM



#88
Benzo(k)fluoranthene
Concen: 20.94 ng m
RT: 15.29 min Scan# 1133
Delta R.T. 0.00 min
Lab File: BF090383.D
Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.4	18.6	27.8
125	12.1	11.7	17.5





#89

Benzo(a)pyrene

Concen: 19.42 ng

RT: 15.63 min Scan# 1163

Delta R.T. -0.01 min

Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Instrument :

BNA_F

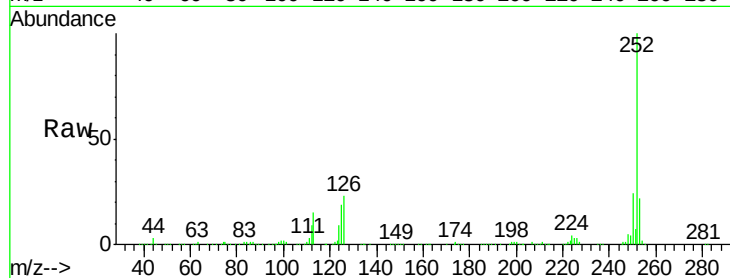
ClientSampleId :

LOQ-SOIL2016--02-QT4

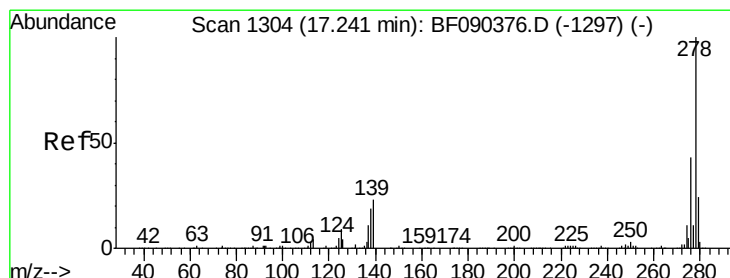
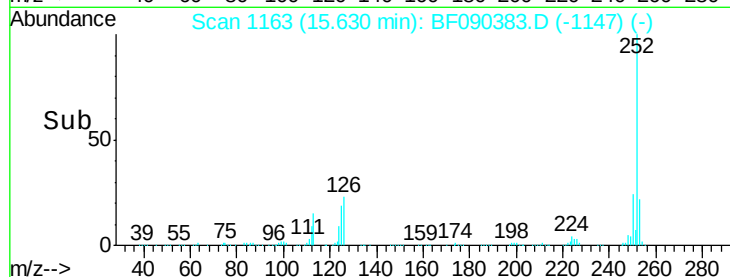
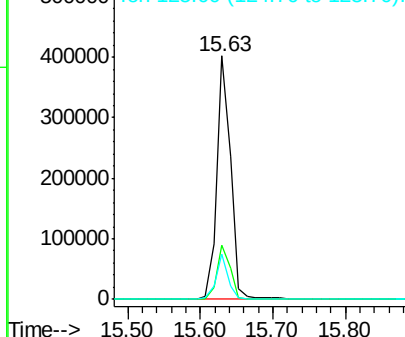
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.2	27.4
125	18.8	9.8	14.8

Manual Integrations
APPROVED

SOHIL
10/6/2016 5:27:29 PM



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



#90

Dibenzo(a,h)anthracene

Concen: 17.56 ng

RT: 17.23 min Scan# 1303

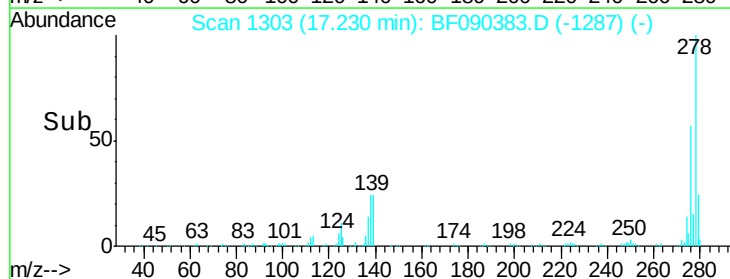
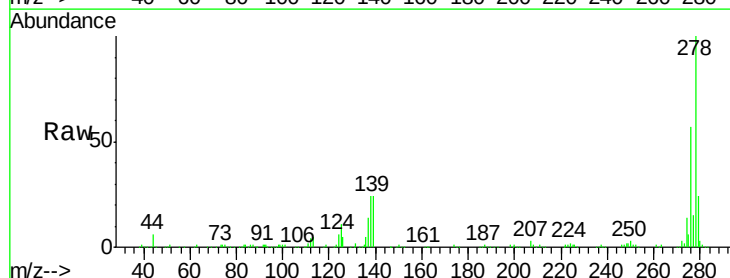
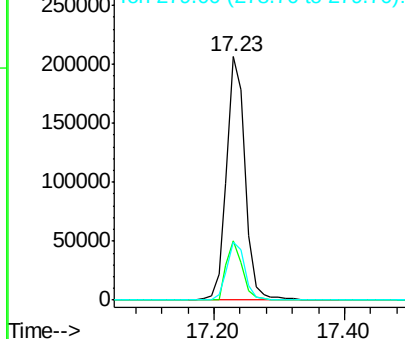
Delta R.T. -0.01 min

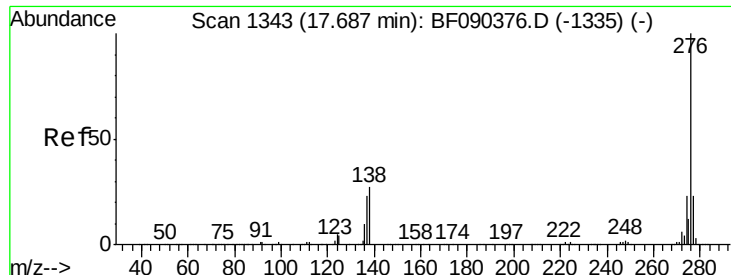
Lab File: BF090383.D

Acq: 5 Oct 2016 16:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.2	12.8	19.2
279	23.9	19.6	29.4

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 17.12 ng
 RT: 17.66 min Scan# 1341
 Delta R.T. -0.02 min
 Lab File: BF090383.D
 Acq: 5 Oct 2016 16:03

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016--02-QT4

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.4	29.0
138	33.6	20.8	31.2

Manual Integrations
 APPROVED

SOHIL
 10/6/2016 5:27:29 PM

