

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042016\
 Data File : BF086321.D
 Acq On : 20 Apr 2016 21:10
 Operator : UM/SJ
 Sample : H1824-04
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Manual Integrations
 APPROVED

sohil
 4/21/2016 7:10:34 PM

Quant Time: Apr 21 01:38:54 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 20 15:45:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	262253	20.00	ng	-0.03
21) Naphthalene-d8	8.14	136	1048047	20.00	ng	-0.03
38) Acenaphthene-d10	9.90	164	458722	20.00	ng	-0.03
63) Phenanthrene-d10	11.38	188	752051	20.00	ng	-0.03
75) Chrysene-d12	14.02	240	434691	20.00	ng	-0.03
86) Perylene-d12	15.44	264	436289	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1928521	128.30	ng	-0.01
7) Phenol-d6	6.50	99	2421141	123.09	ng	-0.02
23) Nitrobenzene-d5	7.42	82	1535427	83.90	ng	-0.03
41) 2,4,6-Tribromophenol	10.69	330	466956	130.60	ng	-0.03
44) 2-Fluorobiphenyl	9.23	172	2441811	107.79	ng	-0.03
78) Terphenyl-d14	12.97	244	1510927	82.74	ng	-0.03

Target Compounds						Qvalue
2) 1,4-Dioxane	2.54	88	123715	15.19	ng	# 93
3) Pyridine	3.31	79	276464	13.26	ng	96
4) n-Nitrosodimethylamine	3.20	42	114790	15.98	ng	# 69
6) Aniline	6.52	93	262380	9.91	ng	# 84
8) 2-Chlorophenol	6.65	128	319664	17.90	ng	84
9) Benzaldehyde	6.41	77	292863	21.01	ng	99
10) Phenol	6.51	94	365944	16.23	ng	92
11) bis(2-Chloroethyl)ether	6.60	93	345534	17.55	ng	94
12) 1,3-Dichlorobenzene	6.80	146	343987	17.56	ng	99
13) 1,4-Dichlorobenzene	6.88	146	374228	17.88	ng	98
14) 1,2-Dichlorobenzene	7.04	146	301007	16.21	ng	97
15) Benzyl Alcohol	7.00	79	236818	19.38	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.14	45	470384	16.98	ng	89
17) 2-Methylphenol	7.12	107	273114	18.30	ng	97
18) Hexachloroethane	7.38	117	119762	19.20	ng	94
19) n-Nitroso-di-n-propylamine	7.28	70	234727	19.70	ng	# 94
20) 3+4-Methylphenols	7.26	107	333147	20.58	ng	# 79
22) Acetophenone	7.28	105	466352	21.18	ng	# 97
24) Nitrobenzene	7.45	77	335205	17.12	ng	95
25) Isophorone	7.68	82	616002	17.77	ng	94
26) 2-Nitrophenol	7.77	139	164942	18.84	ng	# 73
27) 2,4-Dimethylphenol	7.80	122	296451	17.26	ng	100
28) bis(2-Chloroethoxy)methane	7.89	93	400573	19.76	ng	99
29) 2,4-Dichlorophenol	8.01	162	263404	19.45	ng	93
30) 1,2,4-Trichlorobenzene	8.09	180	283336	19.39	ng	99
31) Naphthalene	8.17	128	1012811	20.27	ng	98
32) Benzoic acid	7.88	122	138137	13.53	ng	91
33) 4-Chloroaniline	8.22	127	147243	7.12	ng	# 94
34) Hexachlorobutadiene	8.29	225	138563	18.82	ng	98
35) Caprolactam	8.57	113	77375	17.64	ng	# 64
36) 4-Chloro-3-methylphenol	8.69	107	288444	18.94	ng	86
37) 2-Methylnaphthalene	8.86	142	608585	19.73	ng	97
39) 1,2,4,5-Tetrachlorobenzene	9.02	216	249017	20.39	ng	96
40) Hexachlorocyclopentadiene	9.01	237	54384	19.62	ng	98

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042016\
 Data File : BF086321.D
 Acq On : 20 Apr 2016 21:10
 Operator : UM/SJ
 Sample : H1824-04
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Manual Integrations
 APPROVED

sohil
 4/21/2016 7:10:34 PM

Quant Time: Apr 21 01:38:54 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 20 15:45:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.14	196	161523	19.07	nq	97
43) 2,4,5-Trichlorophenol	9.17	196	179368	19.44	nq	# 87
45) 1,1'-Biphenyl	9.32	154	743323	20.63	nq	99
46) 2-Chloronaphthalene	9.34	162	551274	20.19	nq	99
47) 2-Nitroaniline	9.45	65	172606	18.60	nq	# 72
48) Acenaphthylene	9.76	152	886891	20.81	nq	99
49) Dimethylphthalate	9.62	163	639674	18.32	nq	99
50) 2,6-Dinitrotoluene	9.69	165	139085	19.35	nq	92
51) Acenaphthene	9.93	154	521433	20.85	nq	100
52) 3-Nitroaniline	9.85	138	106821	11.69	nq	97
53) 2,4-Dinitrophenol	9.96	184	17378	17.26	nq	# 3
54) Dibenzofuran	10.11	168	760273	22.36	nq	99
55) 4-Nitrophenol	10.01	139	88366	15.59	nq	85
56) 2,4-Dinitrotoluene	10.09	165	179762	20.13	nq	98
57) Fluorene	10.44	166	549420	21.81	nq	99
58) 2,3,4,6-Tetrachlorophenol	10.22	232	137779	22.26	nq	89
59) Diethylphthalate	10.33	149	647573	19.00	nq	98
60) 4-Chlorophenyl-phenylether	10.44	204	258477	22.15	nq	99
61) 4-Nitroaniline	10.46	138	144471	16.89	nq	# 84
62) Azobenzene	10.60	77	723229	21.53	nq	94
64) 4,6-Dinitro-2-methylphenol	10.49	198	36176	19.42	nq	84
65) n-Nitrosodiphenylamine	10.56	169	497254	20.07	nq	98
66) 4-Bromophenyl-phenylether	10.93	248	153213	18.96	nq	97
67) Hexachlorobenzene	10.99	284	152308	18.78	nq	94
68) Atrazine	11.08	200	144985	19.04	nq	99
69) Pentachlorophenol	11.18	266	75515	17.77	nq	94
70) Phenanthrene	11.40	178	730613	20.50	nq	98
71) Anthracene	11.46	178	797983	20.91	nq	98
72) Carbazole	11.61	167	717337	19.86	nq	97
73) Di-n-butylphthalate	11.95	149	955052	20.54	nq	# 97
74) Fluoranthene	12.59	202	629105	19.04	nq	97
76) Benzidine	12.72	184	154191	8.03	nq	97
77) Pyrene	12.82	202	619378	19.21	nq	98
79) Butylbenzylphthalate	13.44	149	305716	17.96	nq	# 69
80) Benzo(a)anthracene	14.01	228	439955	19.21	nq	98
81) 3,3'-Dichlorobenzidine	13.97	252	109567	6.92	nq	# 96
82) Chrysene	14.04	228	498450	20.14	nq	96
83) Bis(2-ethylhexyl)phthalate	14.01	149	373468	18.74	nq	# 97
84) Di-n-octyl phthalate	14.61	149	665750	18.53	nq	# 94
85) Indeno(1,2,3-cd)pyrene	16.83	276	454358	17.85	nq	96
87) Benzo(b)fluoranthene	15.03	252	421696m	16.71	nq	
88) Benzo(k)fluoranthene	15.06	252	521647m	24.56	nq	
89) Benzo(a)pyrene	15.38	252	453690	19.51	nq	98
90) Dibenzo(a,h)anthracene	16.84	278	391766	19.30	nq	# 96
91) Benzo(g,h,i)perylene	17.24	276	360678	18.53	nq	95

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

```

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042016\
Data File : BF086321.D
Acq On    : 20 Apr 2016   21:10
Operator  : UM/SJ
Sample    : H1824-04
Misc      :
ALS Vial  : 23      Sample Multiplier: 1

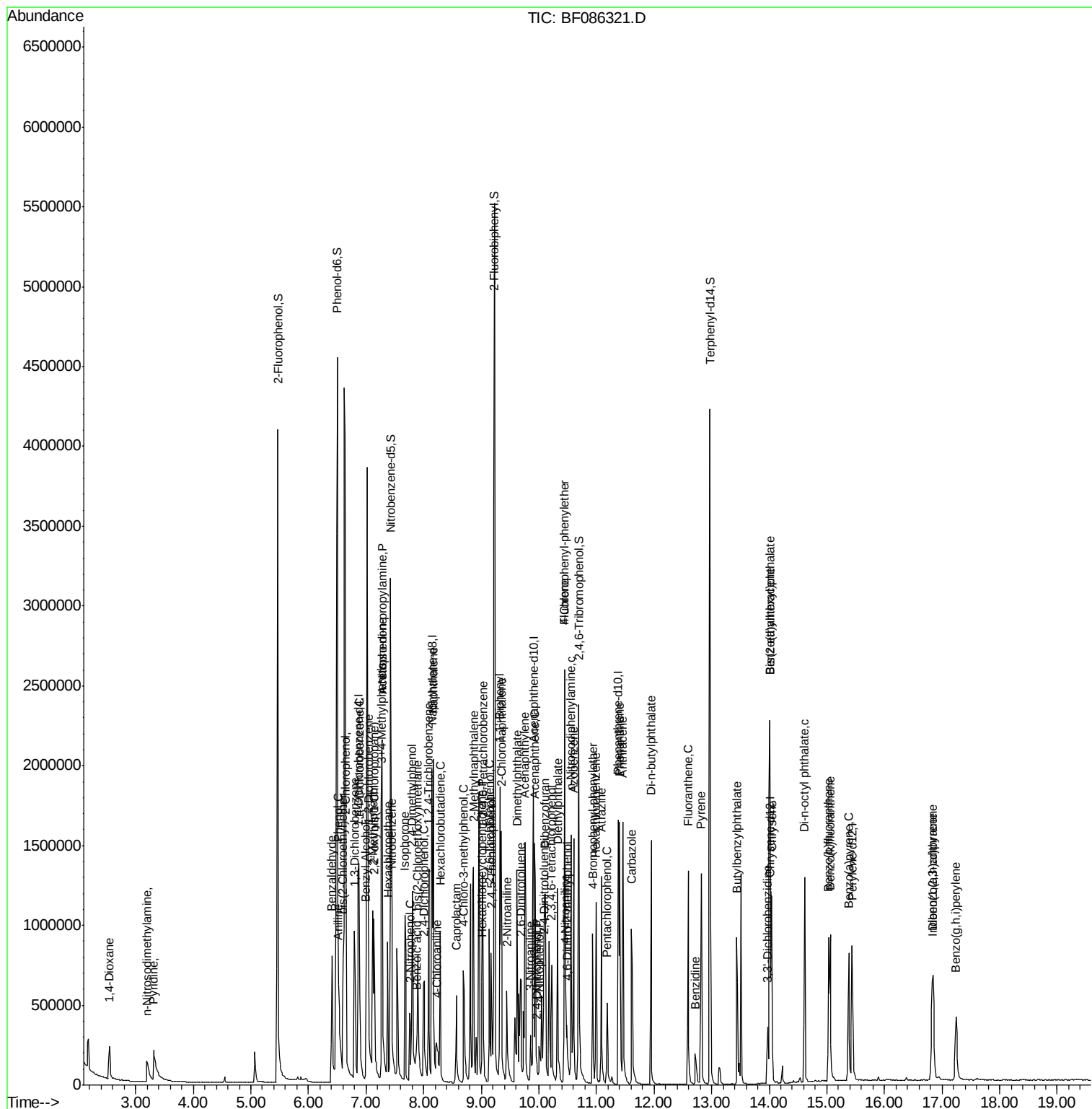
```

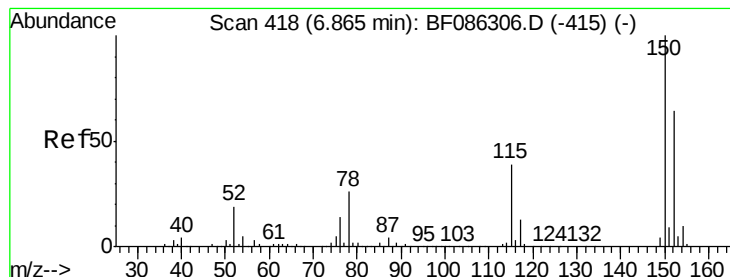
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Manual Integrations APPROVED

sohil
4/21/2016 7:10:34 PM

Quant Time: Apr 21 01:38:54 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 20 15:45:26 2016
Response via : Initial Calibration





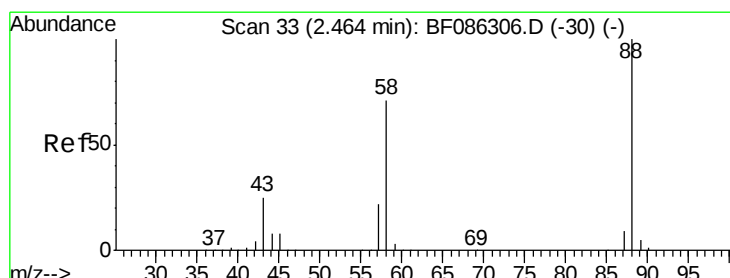
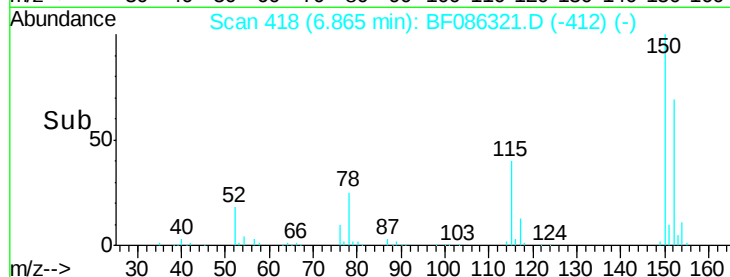
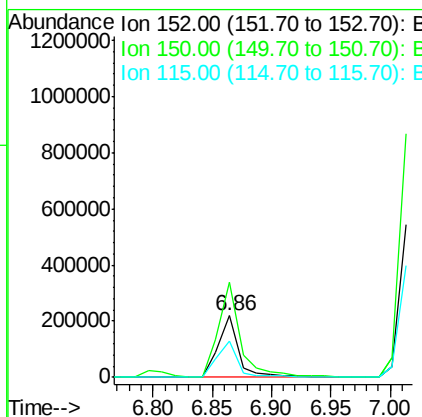
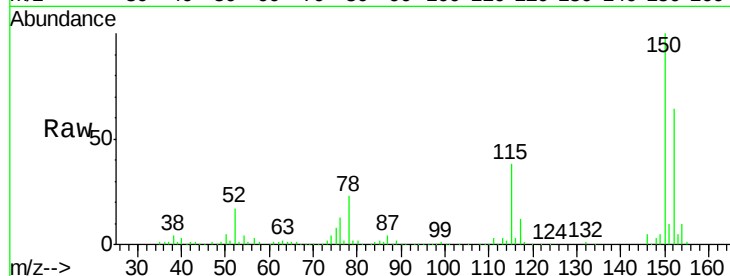
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.86 min Scan# 418
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.7	124.1	186.1
115	58.4	43.9	65.9

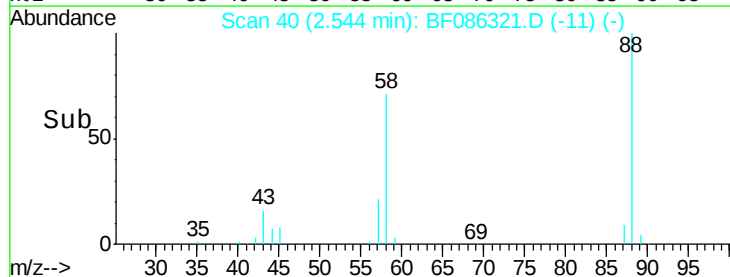
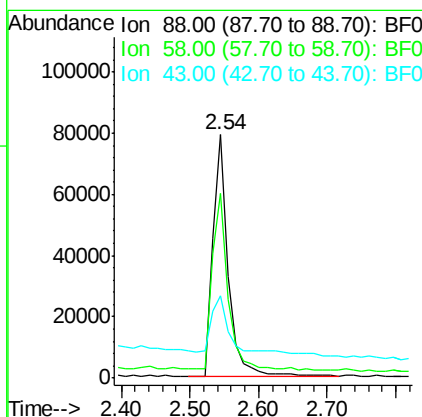
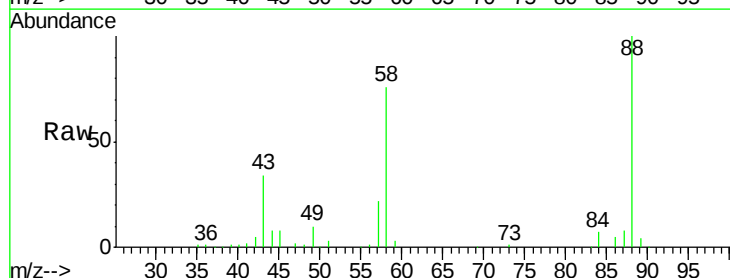
Manual Integrations
 APPROVED

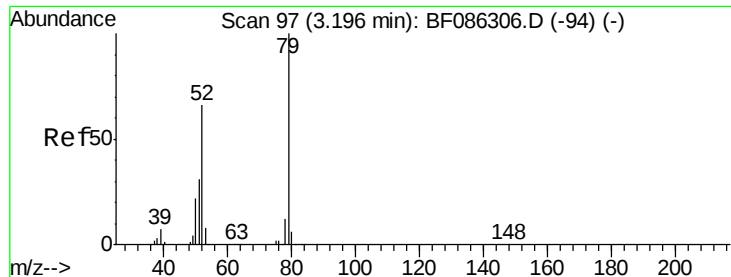
sohil
 4/21/2016 7:10:34 PM



#2
 1,4-Dioxane
 Concen: 15.19 ng
 RT: 2.54 min Scan# 40
 Delta R.T. 0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Lower	Upper
88	100		
58	77.1	58.4	87.6
43	22.6	23.3	34.9#





#3

Pvridine

Concen: 13.26 ng

RT: 3.31 min Scan# 107

Delta R.T. 0.06 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

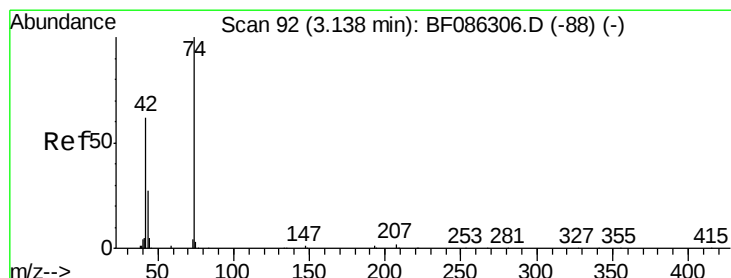
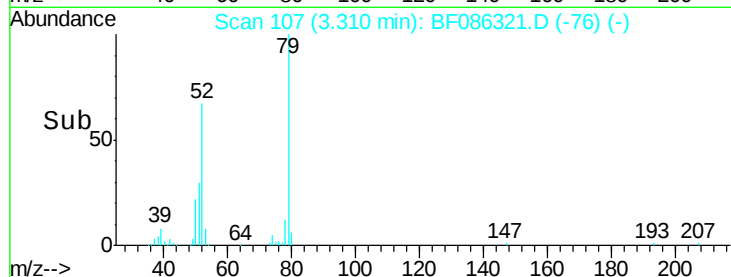
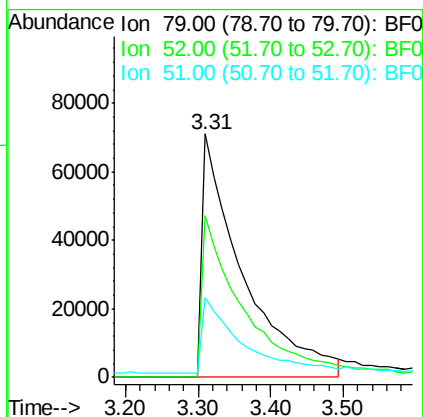
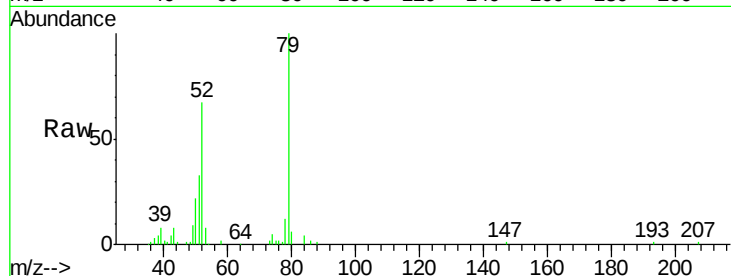
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	79	Resp:	276464
Ion Ratio	Lower	Upper	
79	100		
52	66.6	55.4	83.2
51	32.5	28.1	42.1

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#4

n-Nitrosodimethylamine

Concen: 15.98 ng

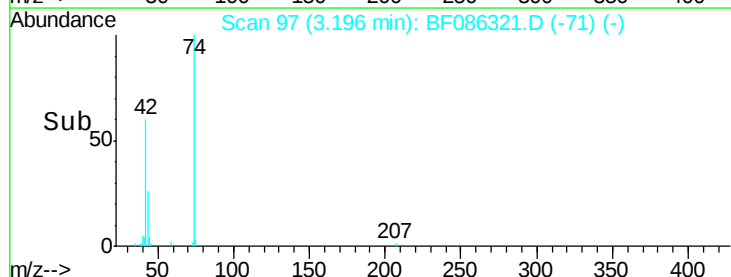
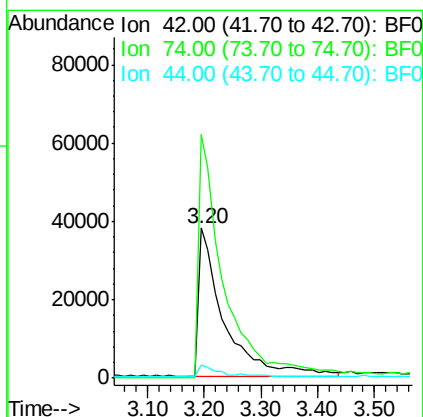
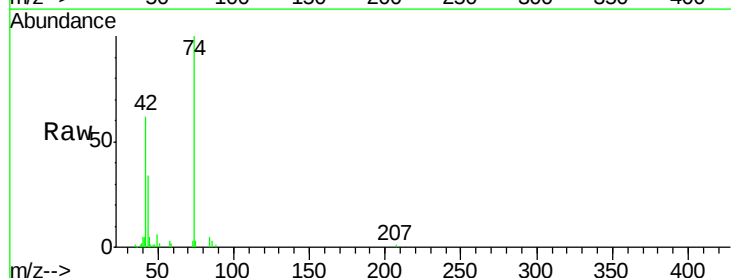
RT: 3.20 min Scan# 97

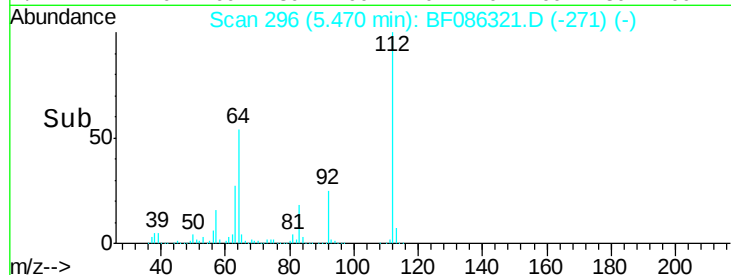
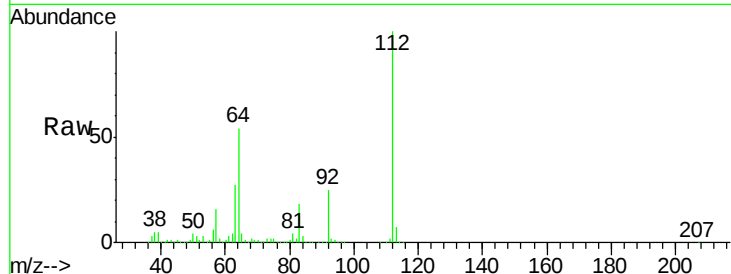
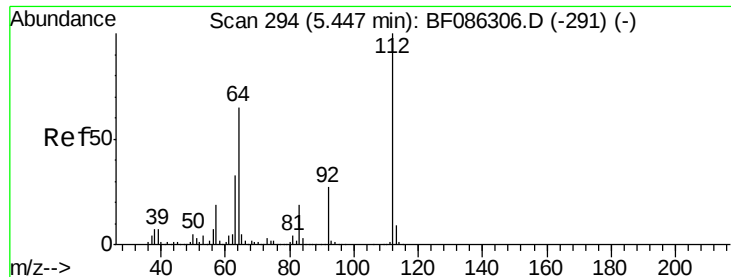
Delta R.T. -0.00 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	42	Resp:	114790
Ion Ratio	Lower	Upper	
42	100		
74	162.4	100.5	150.7#
44	8.7	5.4	8.0#





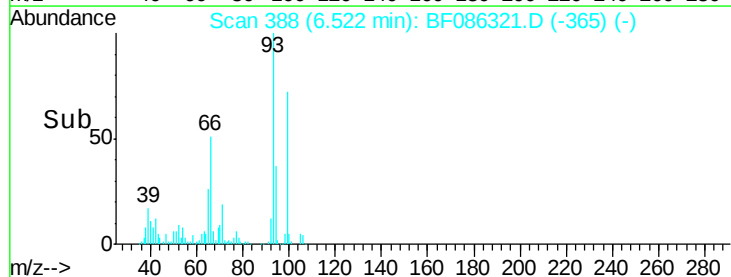
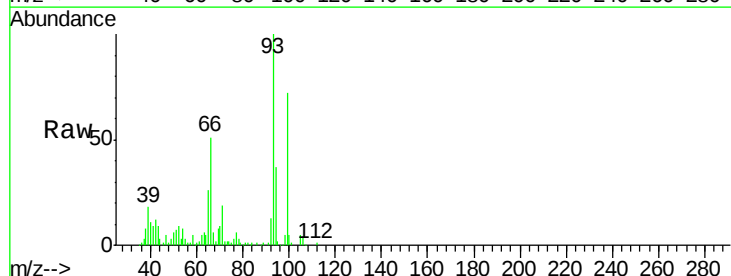
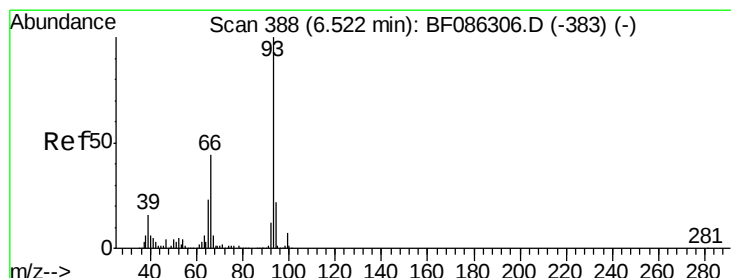
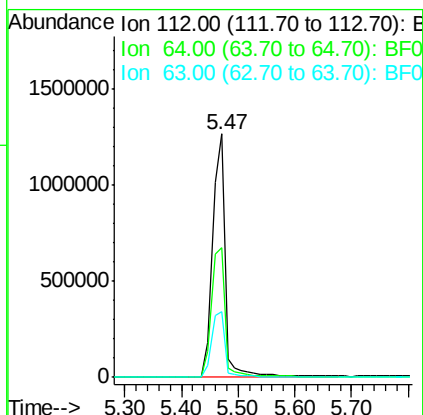
#5
2-Fluorophenol
Concen: 128.30 ng
RT: 5.47 min Scan# 296
Delta R.T. -0.01 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tot Ion	Ratio	Lower	Upper
112	100		
64	53.5	48.1	72.1
63	27.2	25.5	38.3

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

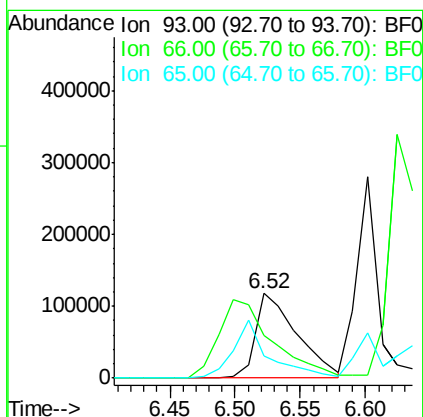
Manual Integrations
APPROVED

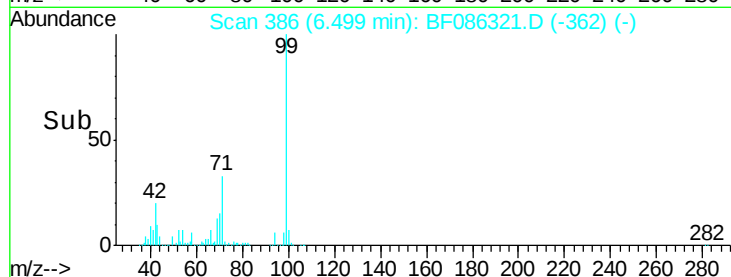
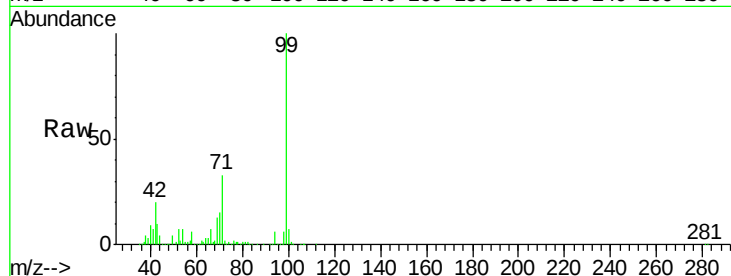
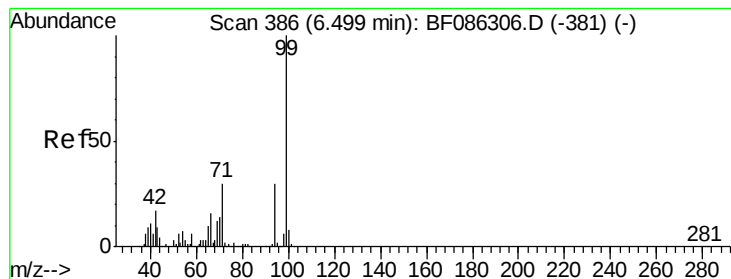
sohil
4/21/2016 7:10:34 PM



#6
Aniline
Concen: 9.91 ng
RT: 6.52 min Scan# 388
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Lower	Upper
93	100		
66	51.0	32.2	48.2#
65	26.3	16.4	24.6#





#7

Phenol-d6

Concen: 123.09 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.02 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tot Ion: 99 Resp: 2421141

Ion Ratio Lower Upper

99 100

42 19.9 15.4 23.2

71 33.1 25.6 38.4

Instrument :

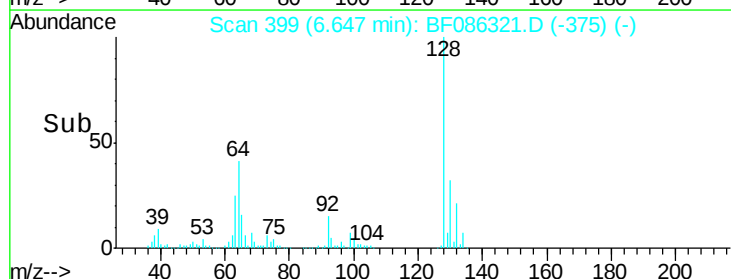
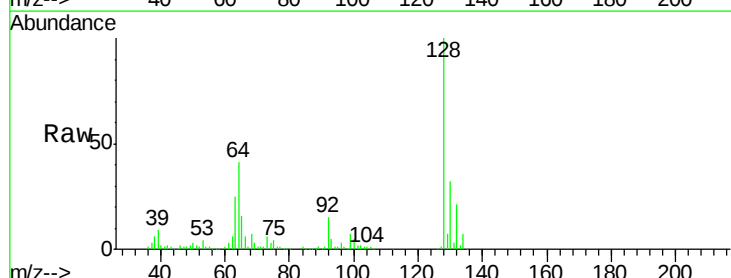
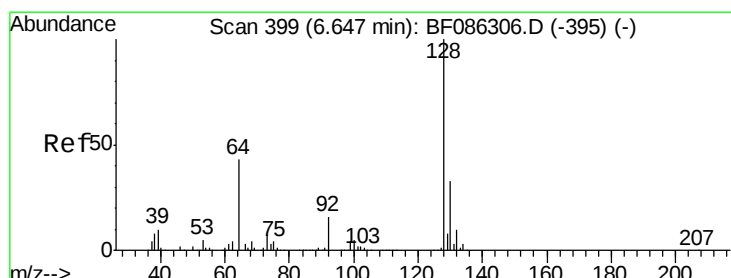
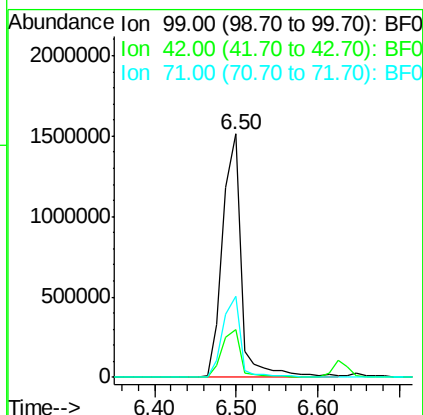
BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#8

2-Chlorophenol

Concen: 17.90 ng

RT: 6.65 min Scan# 399

Delta R.T. -0.02 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

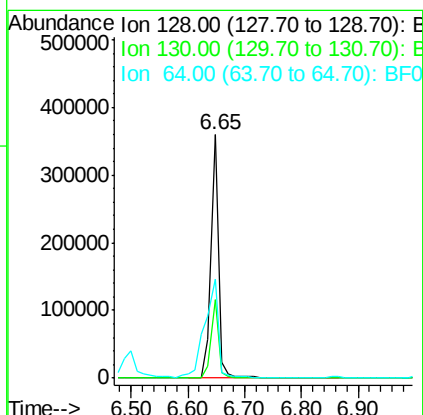
Tgt Ion:128 Resp: 319664

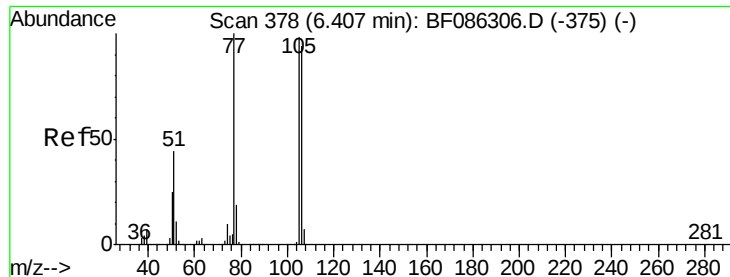
Ion Ratio Lower Upper

128 100

130 32.1 11.8 51.8

64 40.7 39.5 79.5





#9

Benzaldehyde

Concen: 21.01 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

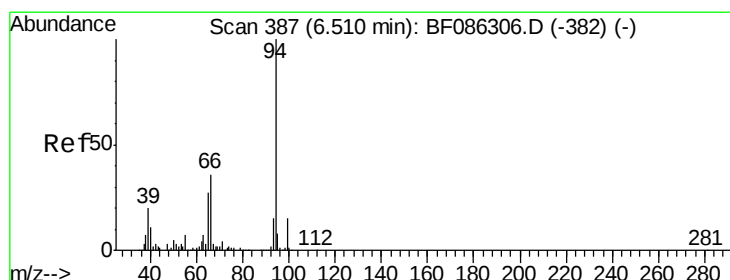
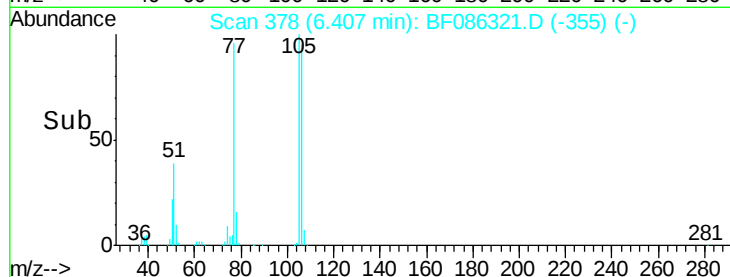
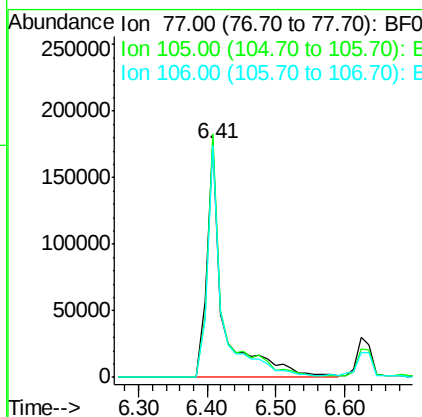
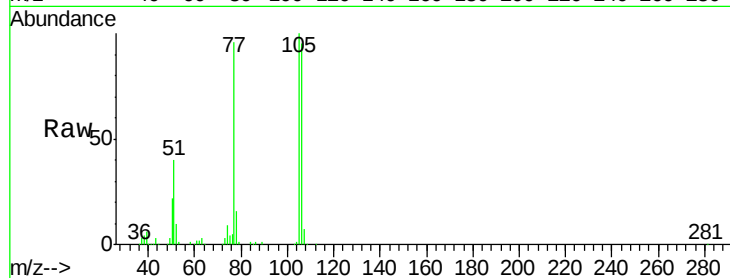
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	77	Resp:	292863
Ion Ratio	Lower	Upper	
77	100		
105	103.9	84.6	124.6
106	98.9	78.6	118.6

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#10

Phenol

Concen: 16.23 ng

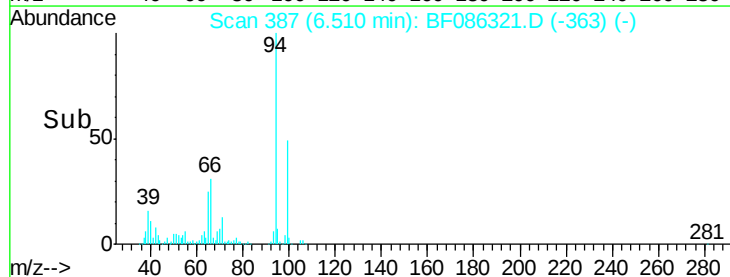
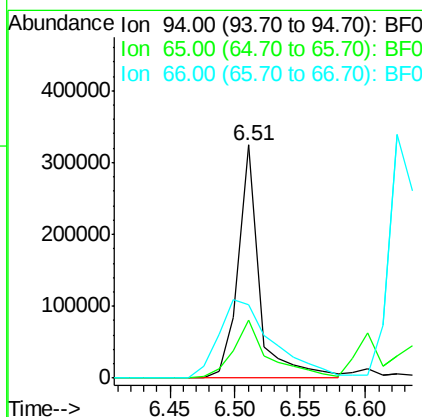
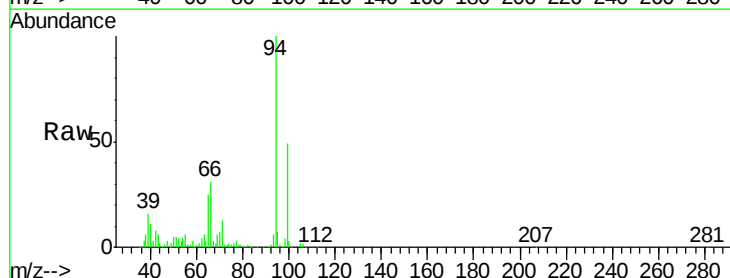
RT: 6.51 min Scan# 387

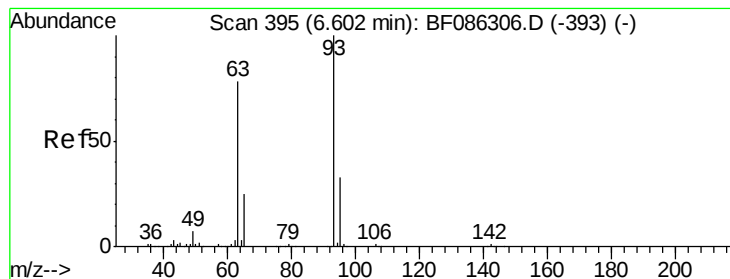
Delta R.T. -0.02 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	94	Resp:	365944
Ion Ratio	Lower	Upper	
94	100		
65	24.7	7.9	47.9
66	31.4	16.5	56.5





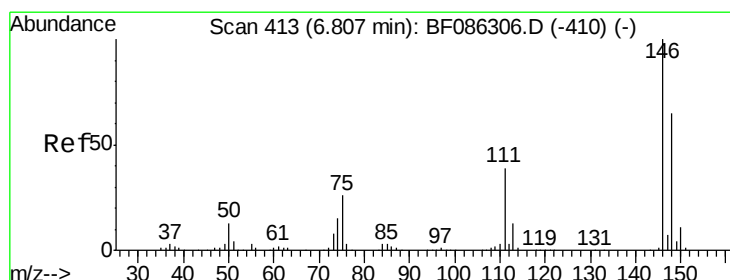
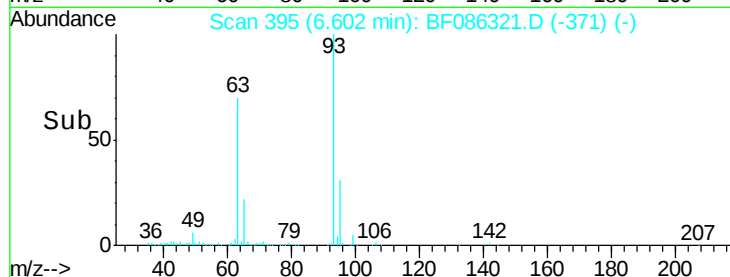
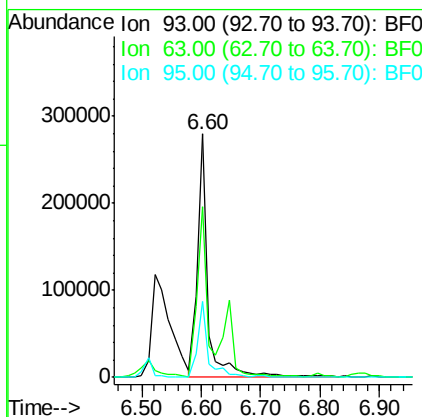
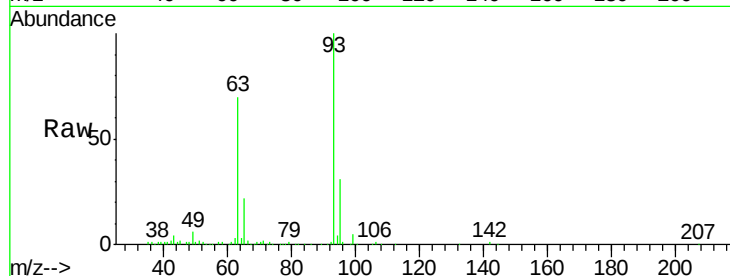
#11
 bis(2-Chloroethyl)ether
 Concen: 17.55 ng
 RT: 6.60 min Scan# 395
 Delta R.T. -0.02 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Tot Ion:	93	Resp:	345534
Ion Ratio	Lower	Upper	
93	100		
63	70.0	44.4	84.4
95	31.2	13.1	53.1

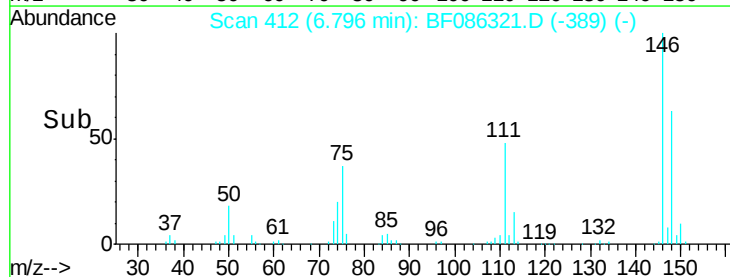
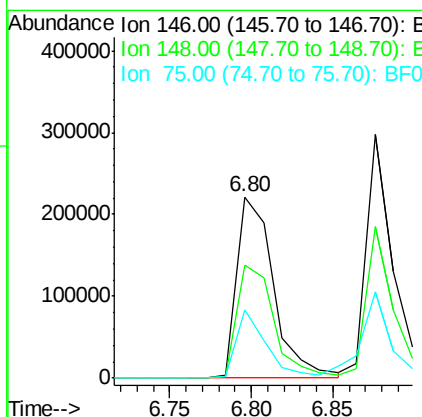
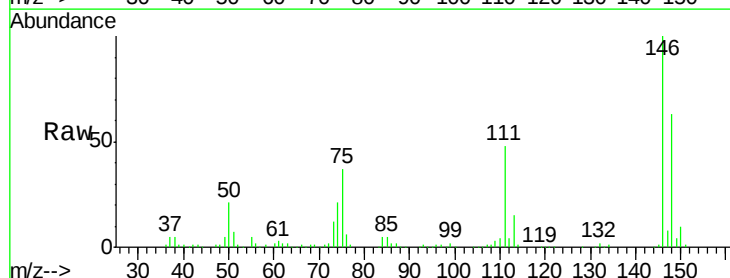
Manual Integrations
 APPROVED

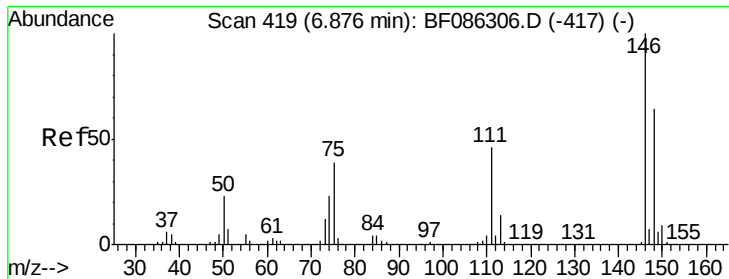
sohil
 4/21/2016 7:10:34 PM



#12
 1,3-Dichlorobenzene
 Concen: 17.56 ng
 RT: 6.80 min Scan# 412
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Tgt Ion:	146	Resp:	343987
Ion Ratio	Lower	Upper	
146	100		
148	62.8	51.0	76.4
75	37.4	29.9	44.9





#13

1,4-Dichlorobenzene

Concen: 17.88 ng

RT: 6.88 min Scan# 419

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

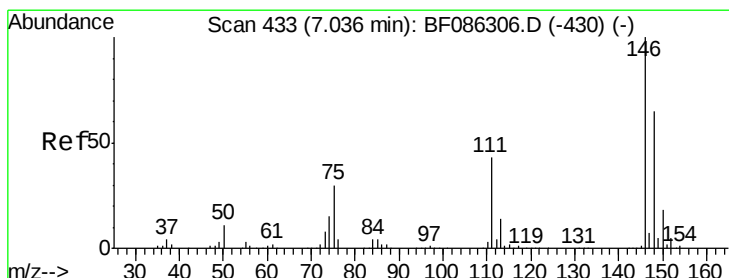
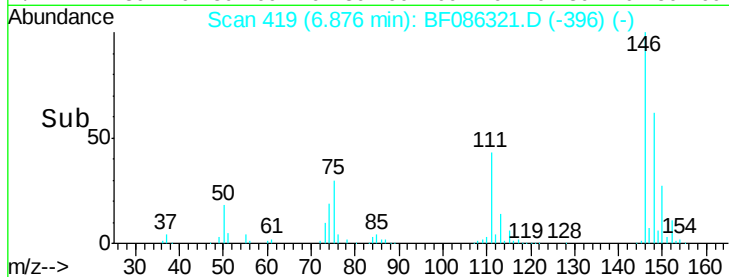
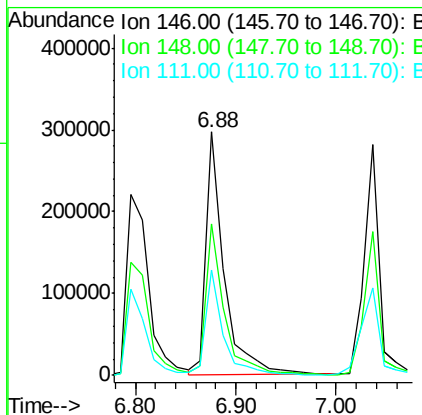
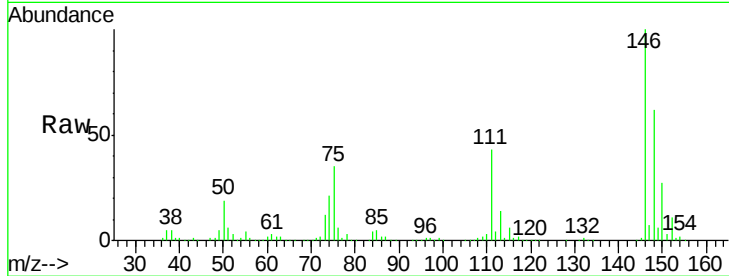
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	146	Resp:	374228
Ion Ratio	Lower	Upper	
146	100		
148	62.4	51.8	77.6
111	43.1	34.9	52.3

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#14

1,2-Dichlorobenzene

Concen: 16.21 ng

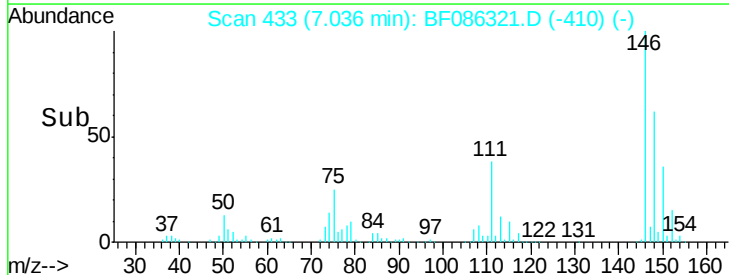
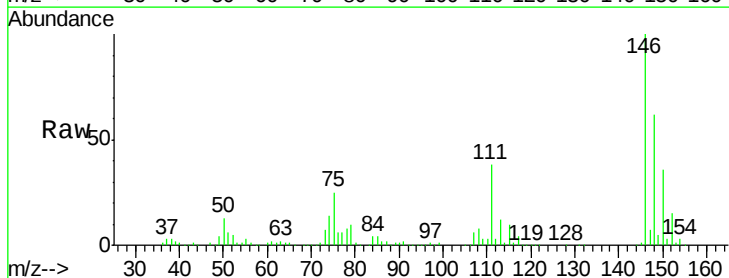
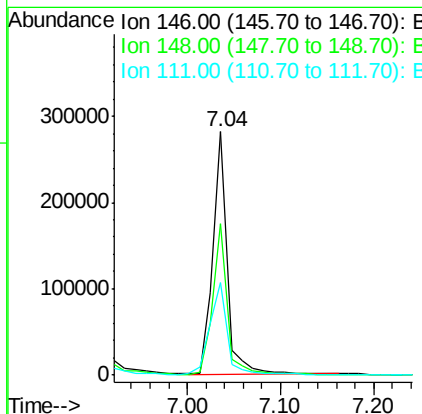
RT: 7.04 min Scan# 433

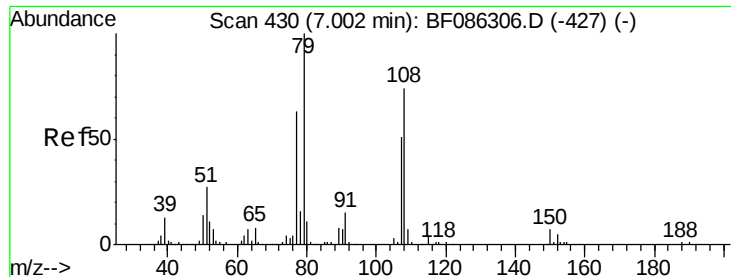
Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	146	Resp:	301007
Ion Ratio	Lower	Upper	
146	100		
148	62.3	52.2	78.2
111	37.8	31.0	46.4





#15

Benzyl Alcohol

Concen: 19.38 ng

RT: 7.00 min Scan# 430

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

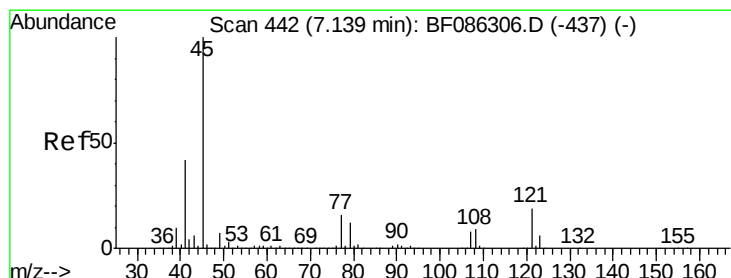
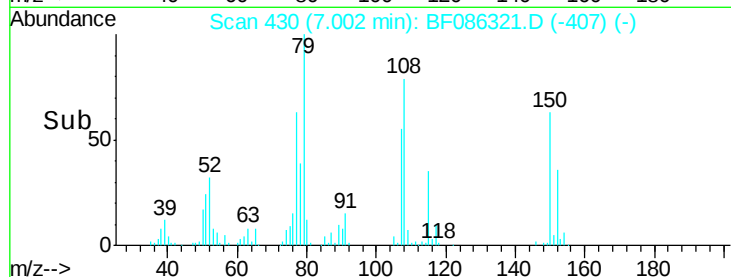
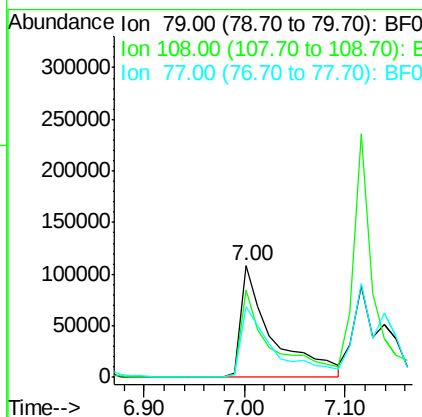
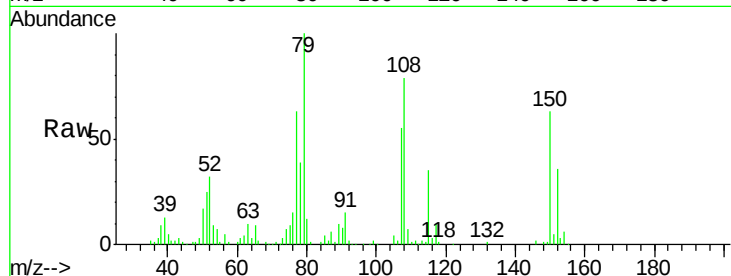
ClientSampleId :

LOQ-SOIL2016-02

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM

Tot Ion:	79	Resp:	236818
Ion Ratio	Lower	Upper	
79	100		
108	78.6	64.8	97.2
77	63.4	51.9	77.9



#16

2,2'-oxybis(1-chloropropane)

Concen: 16.98 ng

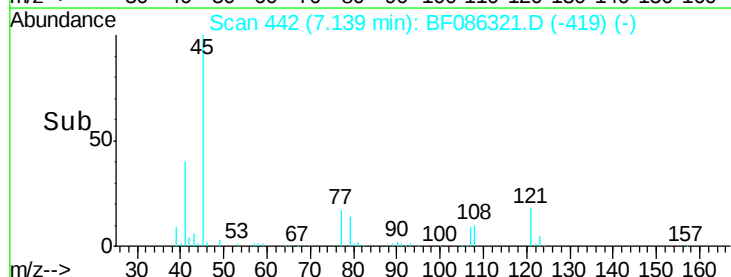
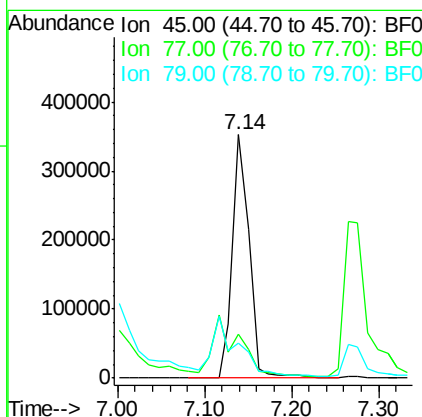
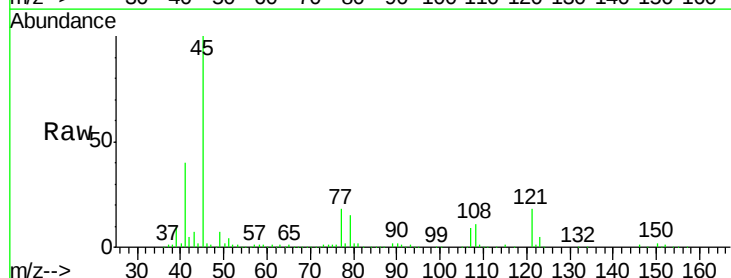
RT: 7.14 min Scan# 442

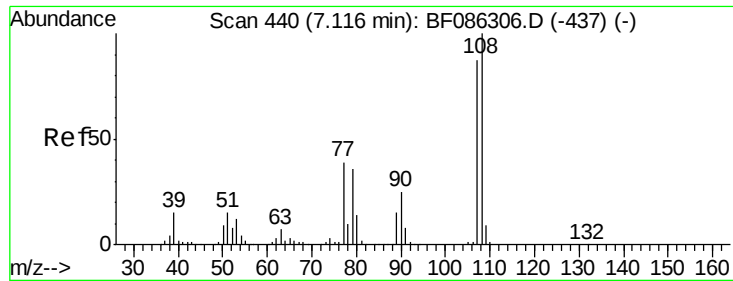
Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	45	Resp:	470384
Ion Ratio	Lower	Upper	
45	100		
77	17.8	0.0	33.7
79	14.6	0.0	30.1





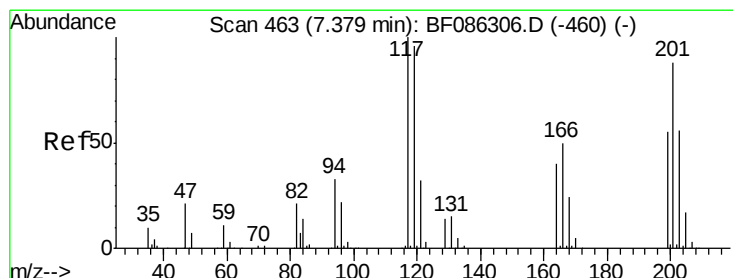
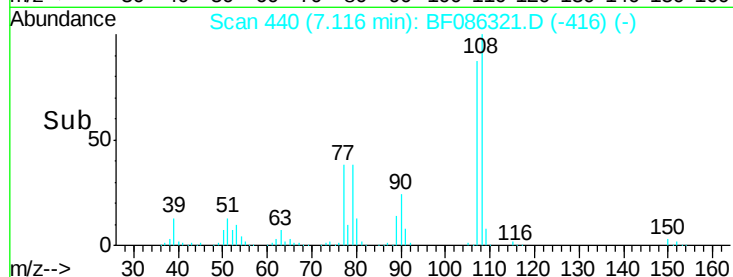
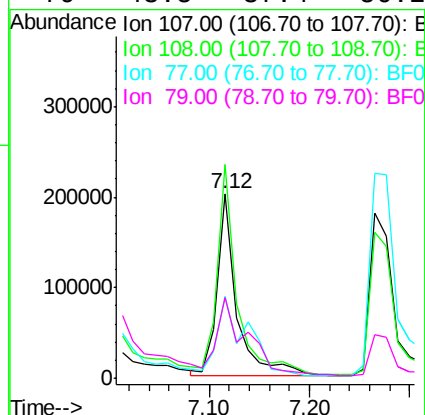
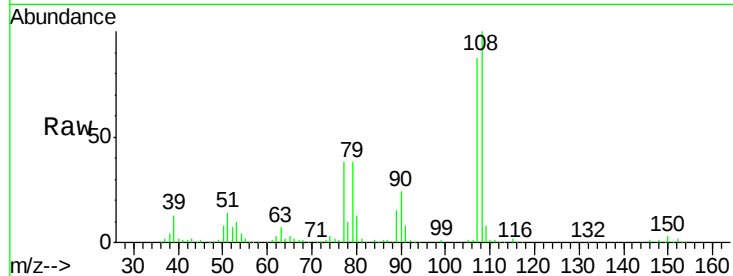
#17
2-Methylphenol
Concen: 18.30 ng
RT: 7.12 min Scan# 440
Delta R.T. -0.02 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion:	107	Resp:	273114
Ion Ratio	Lower	Upper	
107	100		
108	115.5	92.7	139.1
77	44.3	39.6	59.4
79	43.5	37.4	56.2

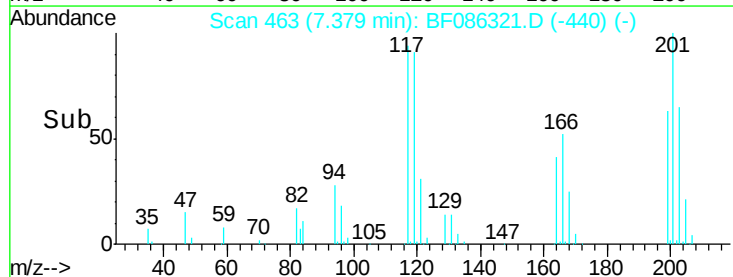
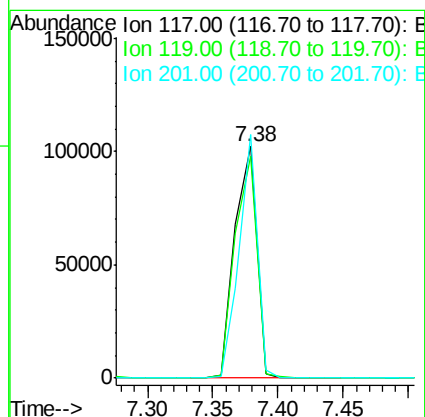
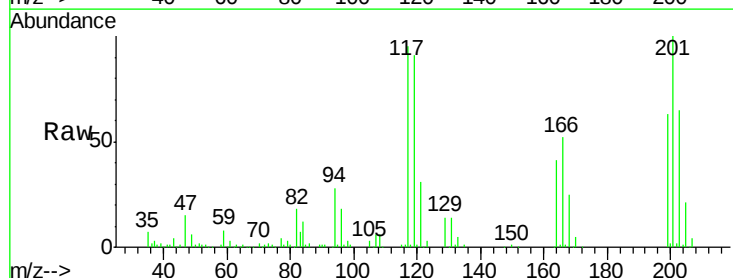
Manual Integrations
APPROVED

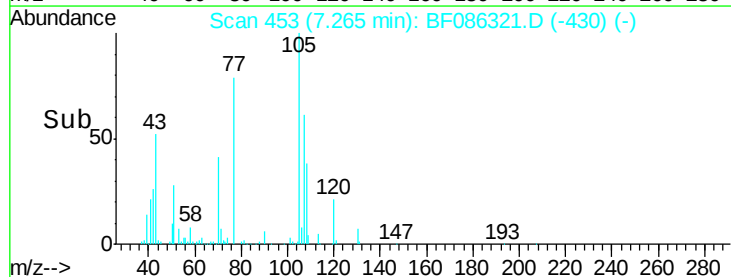
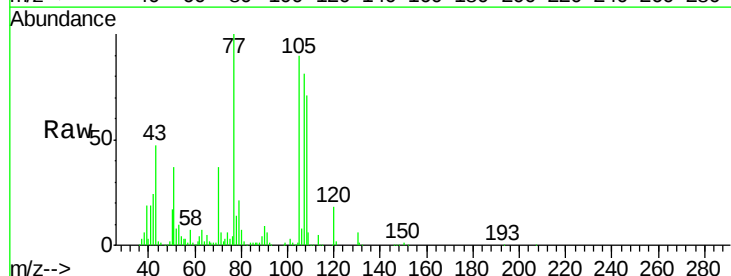
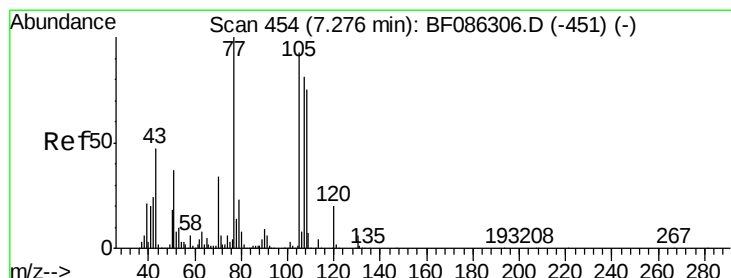
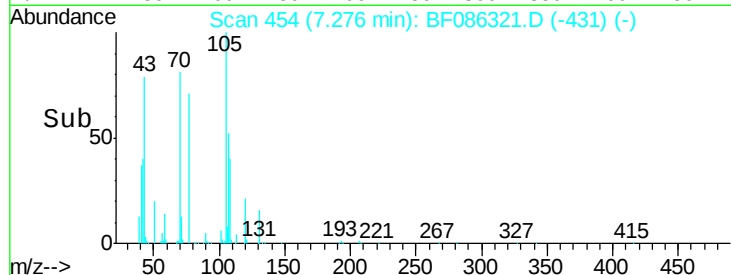
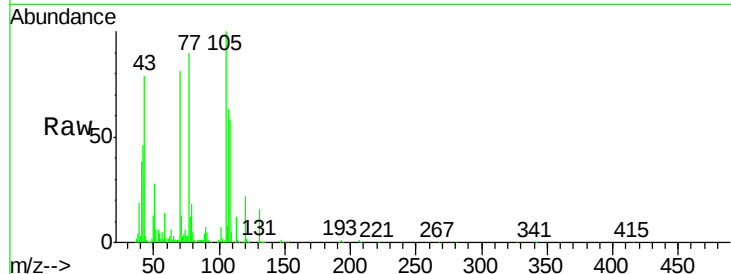
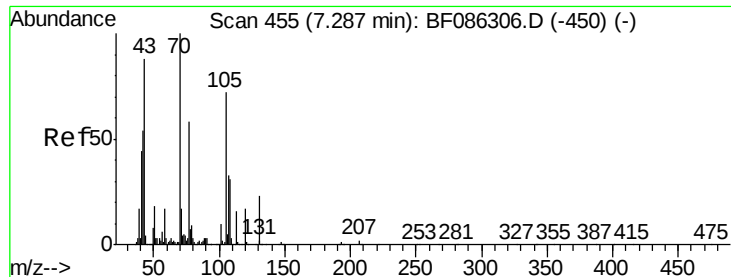
sohil
4/21/2016 7:10:34 PM



#18
Hexachloroethane
Concen: 19.20 ng
RT: 7.38 min Scan# 463
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

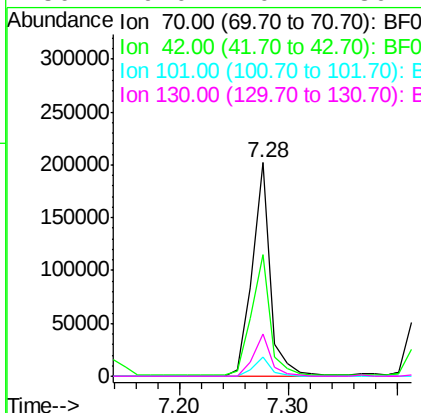
Tgt Ion:	117	Resp:	119762
Ion Ratio	Lower	Upper	
117	100		
119	95.7	78.2	117.4
201	105.1	75.7	113.5





#19
n-Nitroso-di-n-propylamine
Concen: 19.70 ng
RT: 7.28 min Scan# 454
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tot Ion	Ion	Ratio	Resp	Lower	Upper
70	100		234727		
42	56.9	43.0	64.4		
101	9.2	8.1	12.1		
130	20.0	20.1	30.1#		



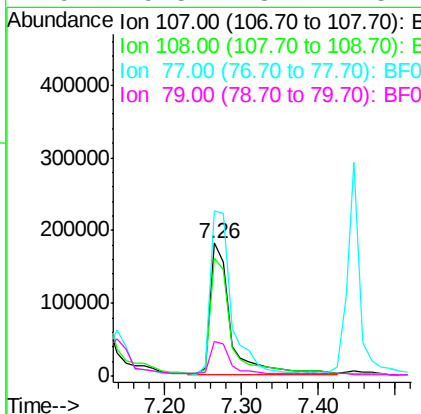
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

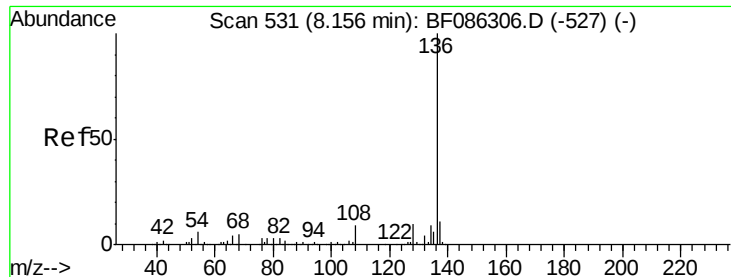
Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM

#20
3+4-Methylphenols
Concen: 20.58 ng
RT: 7.26 min Scan# 453
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		333147		
108	88.2	69.7	109.7		
77	123.9	60.5	100.5#		
79	26.5	8.1	48.1		





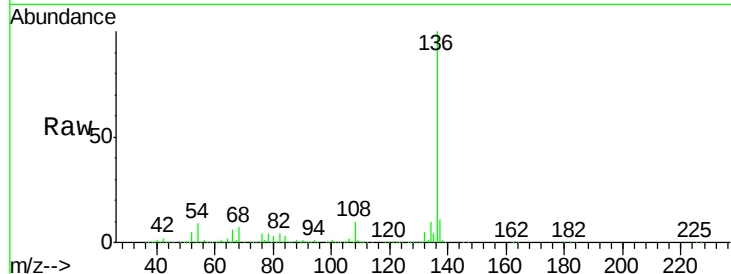
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.14 min Scan# 530
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

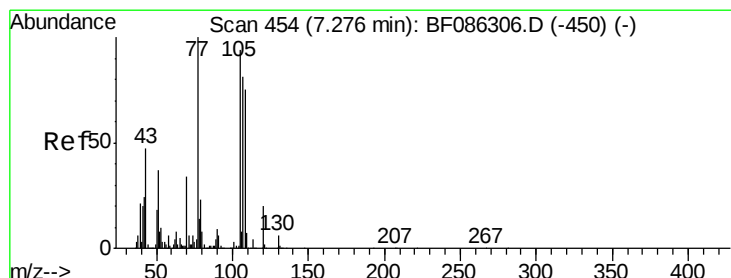
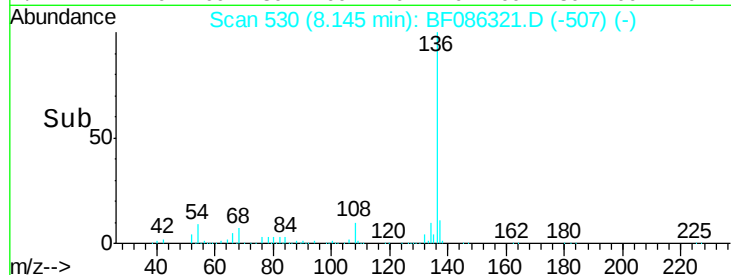
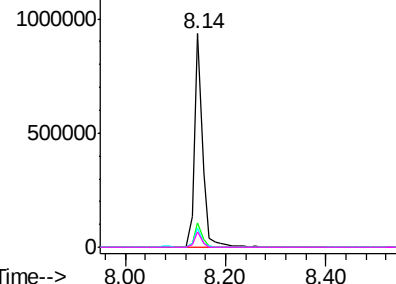
Tot Ion:136	Resp: 1048047
Ion Ratio	Lower Upper
136 100	
137 11.3	9.1 13.7
54 9.0	7.3 10.9
68 7.3	5.7 8.5

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



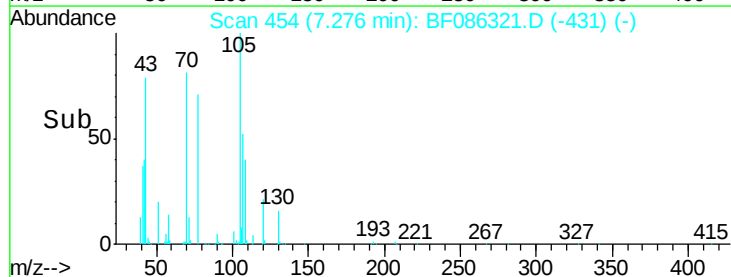
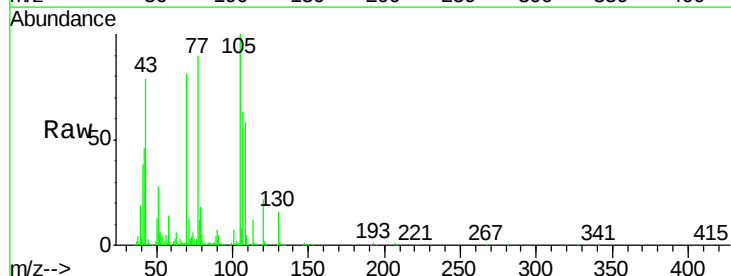
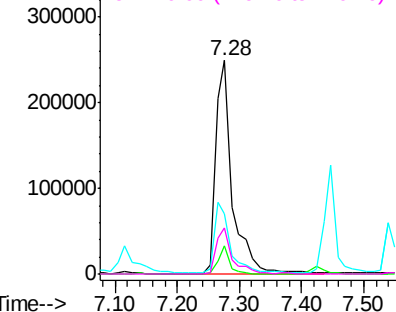
Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

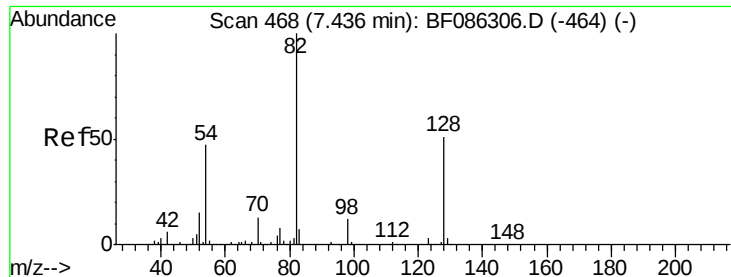


#22
Acetophenone
Concen: 21.18 ng
RT: 7.28 min Scan# 454
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt	Ion:105	Resp:	466352
Ion	Ratio	Lower	Upper
105	100		
71	13.3	4.0	6.0#
51	28.1	22.0	33.0
120	21.7	17.5	26.3

Abundance Ion 105.00 (104.70 to 105.70): E
Ion 71.00 (70.70 to 71.70): BF0
Ion 51.00 (50.70 to 51.70): BF0
Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 83.90 ng

RT: 7.42 min Scan# 467

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tot Ion: 82 Resp: 1535427

Ion Ratio Lower Upper

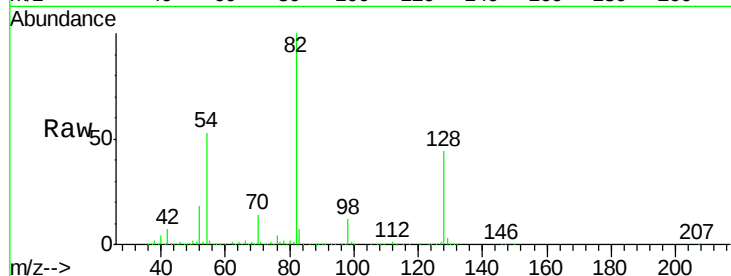
82 100

128 44.2 35.4 53.2

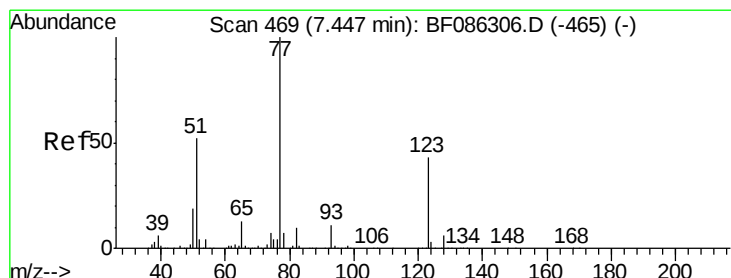
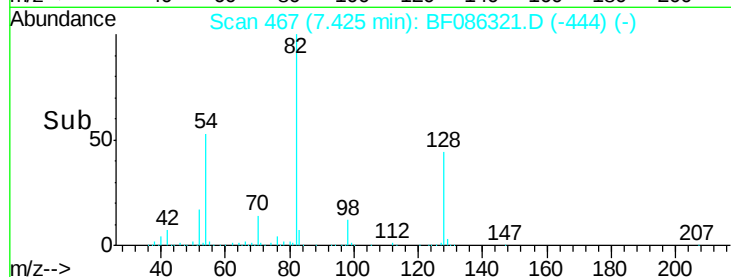
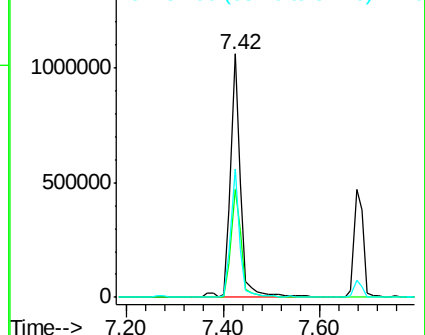
54 52.7 43.4 65.0

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): B
Ion 54.00 (53.70 to 54.70): BF0



#24

Nitrobenzene

Concen: 17.12 ng

RT: 7.45 min Scan# 469

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

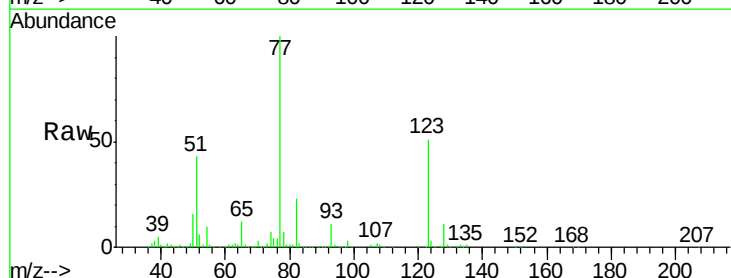
Tgt Ion: 77 Resp: 335205

Ion Ratio Lower Upper

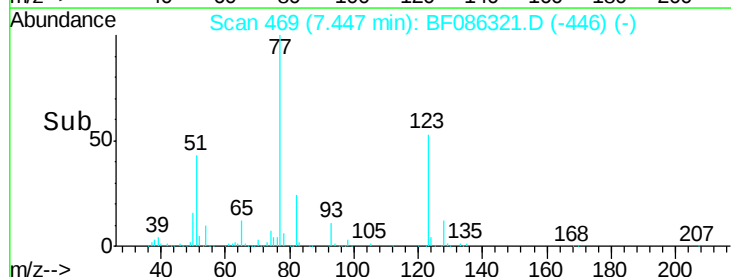
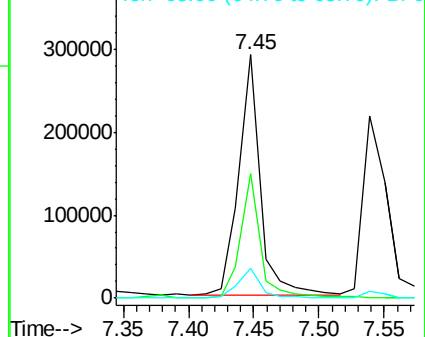
77 100

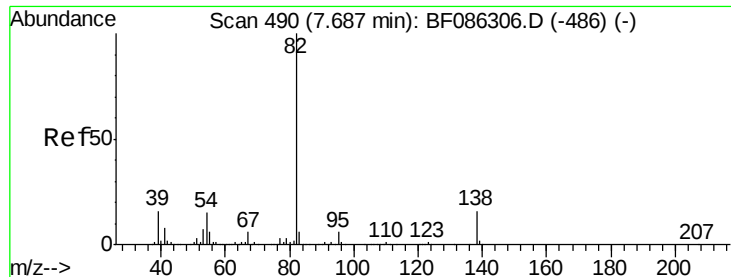
123 51.4 38.3 57.5

65 12.3 11.3 16.9



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 123.00 (122.70 to 123.70): B
Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 17.77 ng

RT: 7.68 min Scan# 489

Delta R.T. -0.05 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

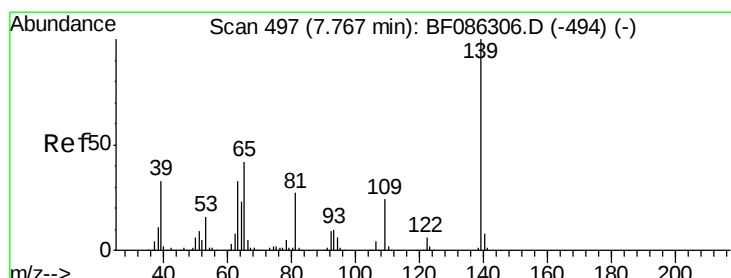
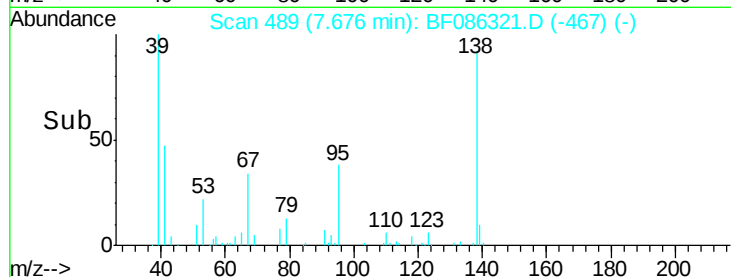
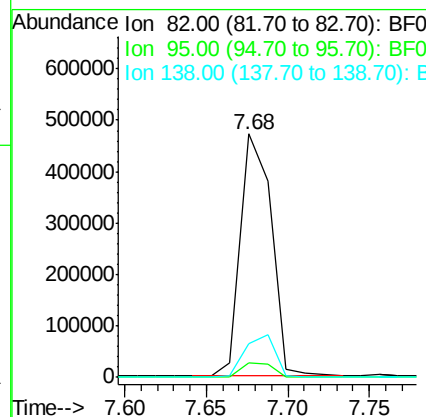
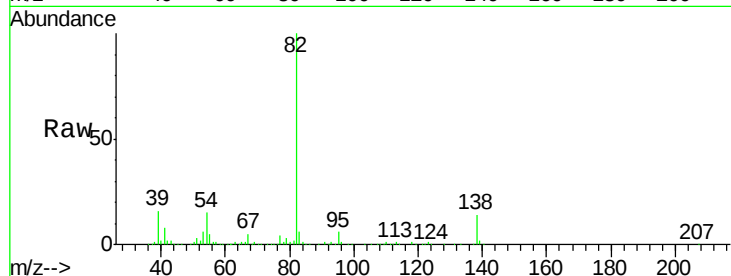
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	82	Resp:	616002
Ion Ratio		Lower	Upper
82	100		
95	5.8	5.4	8.2
138	13.9	13.4	20.2

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#26

2-Nitrophenol

Concen: 18.84 ng

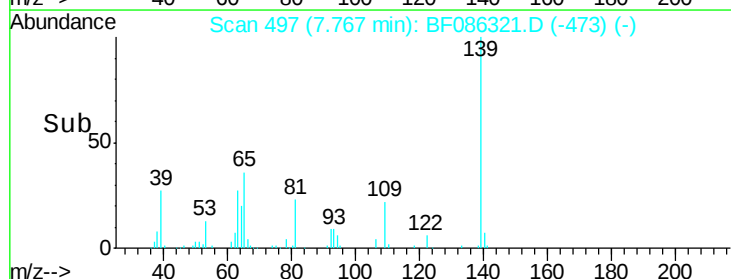
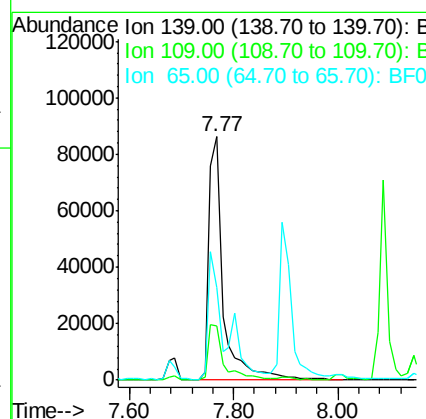
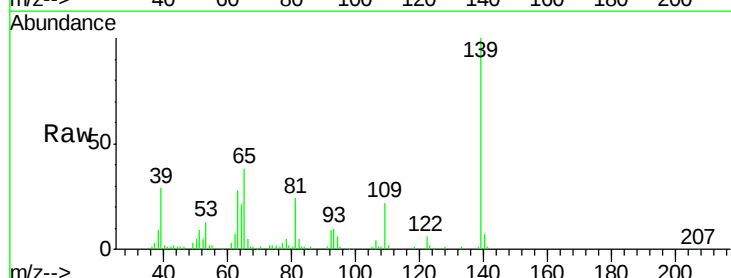
RT: 7.77 min Scan# 497

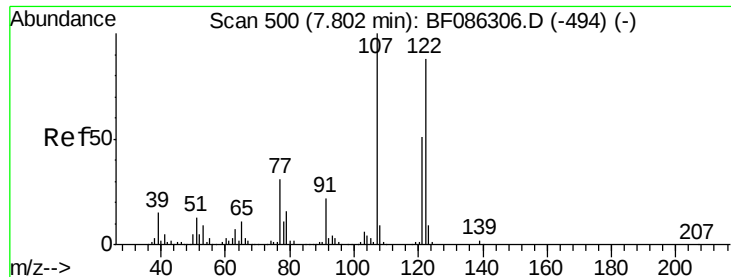
Delta R.T. -0.02 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	139	Resp:	164942
Ion Ratio		Lower	Upper
139	100		
109	22.3	25.8	38.8#
65	37.9	50.2	75.2#





#27

2,4-Dimethylphenol

Concen: 17.26 ng

RT: 7.80 min Scan# 500

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

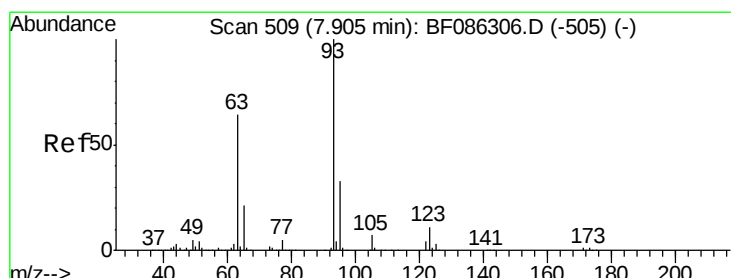
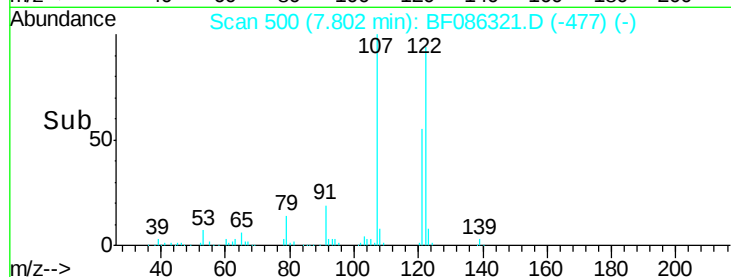
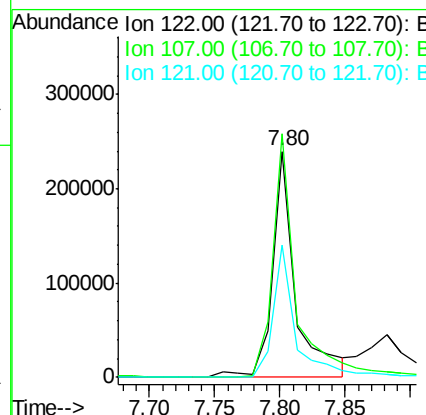
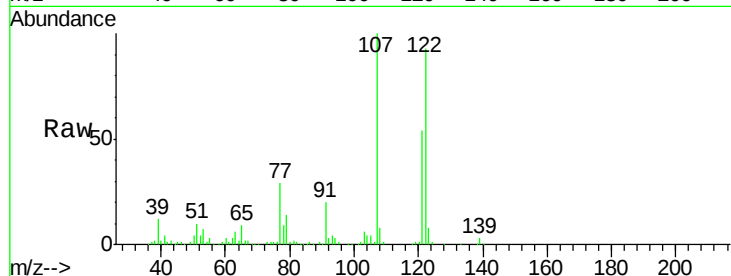
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	122	Resp:	296451
Ion Ratio	Lower	Upper	
122	100		
107	107.7	85.8	128.6
121	58.6	47.1	70.7

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#28

bis(2-Chloroethoxy)methane

Concen: 19.76 ng

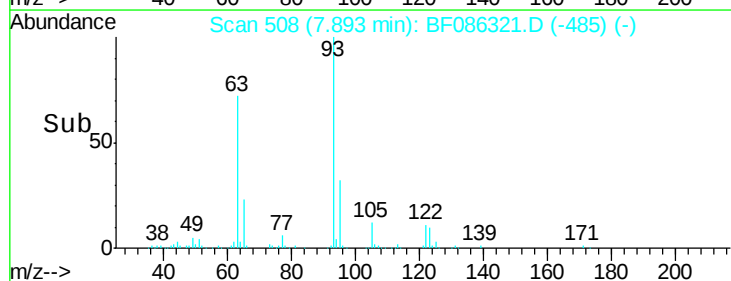
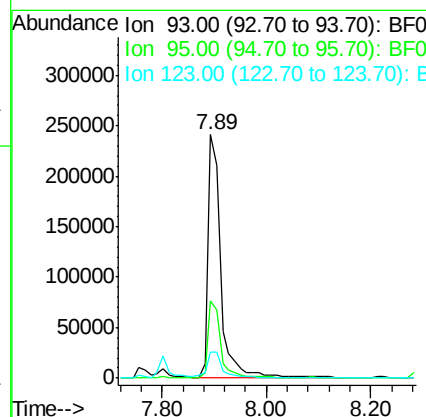
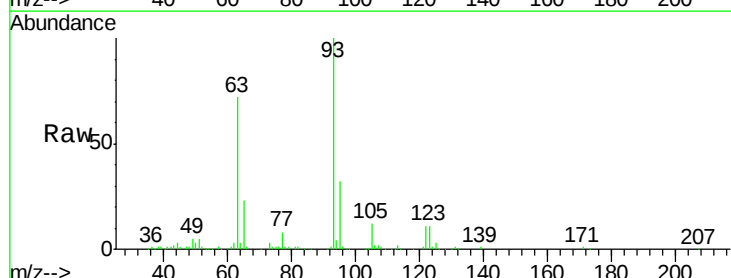
RT: 7.89 min Scan# 508

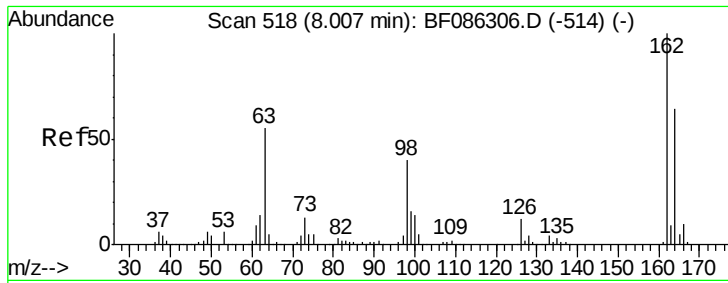
Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	93	Resp:	400573
Ion Ratio	Lower	Upper	
93	100		
95	31.7	25.8	38.8
123	10.6	8.9	13.3





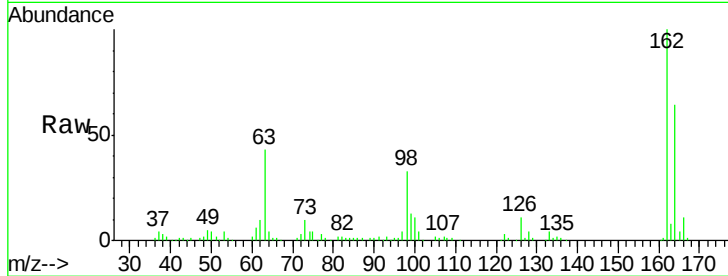
#29
2,4-Dichlorophenol
Concen: 19.45 ng
RT: 8.01 min Scan# 518
Delta R.T. -0.02 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

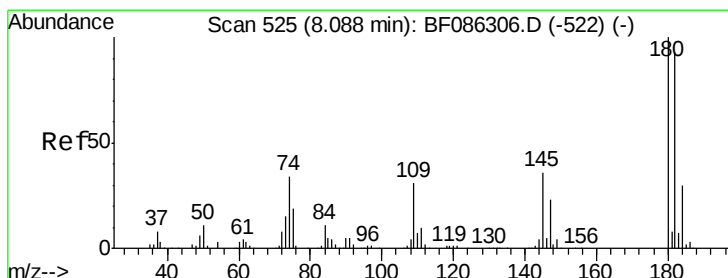
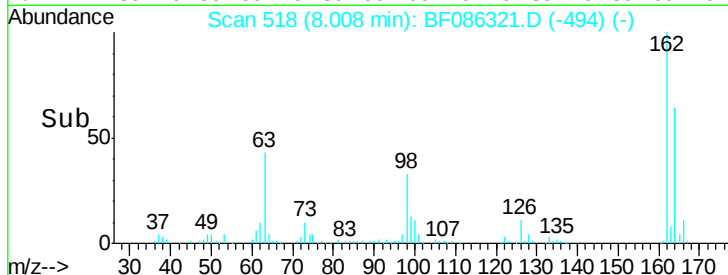
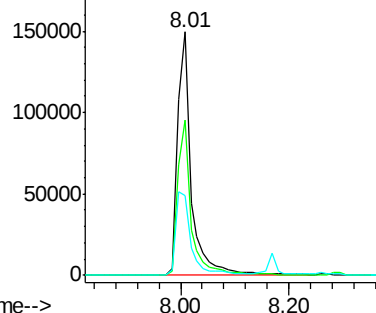
Tot Ion:	162	Resp:	263404
Ion Ratio	Lower	Upper	
162	100		
164	64.0	43.3	83.3
98	32.7	22.9	62.9

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



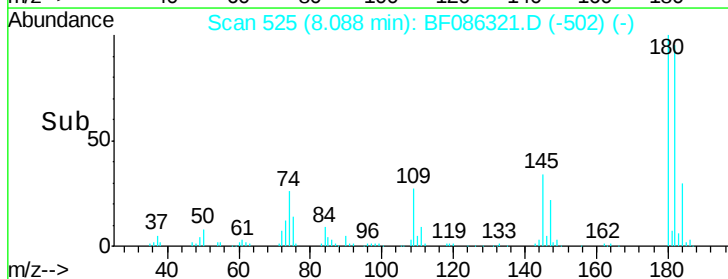
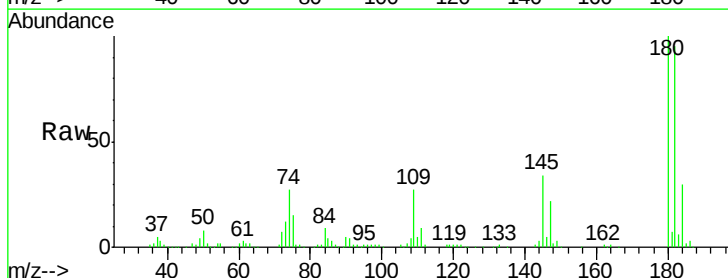
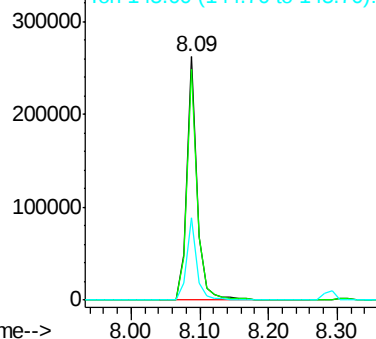
Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF0

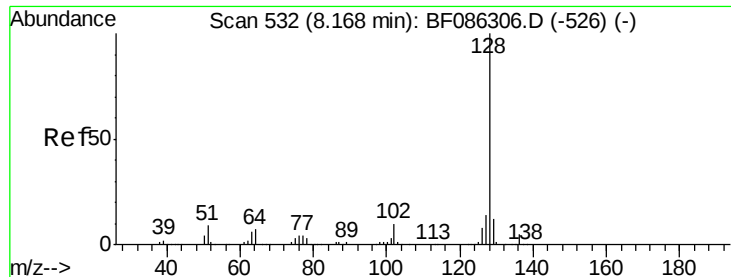


#30
1,2,4-Trichlorobenzene
Concen: 19.39 ng
RT: 8.09 min Scan# 525
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion:	180	Resp:	283336
Ion Ratio	Lower	Upper	
180	100		
182	94.8	76.3	114.5
145	34.0	27.4	41.2

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





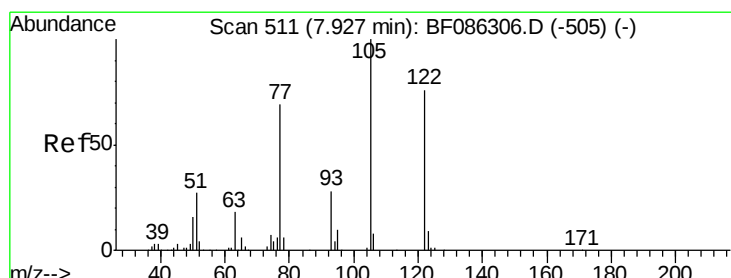
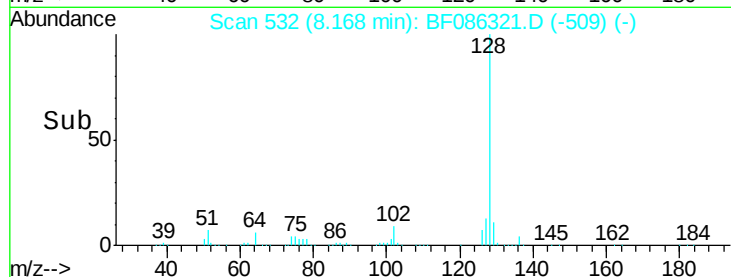
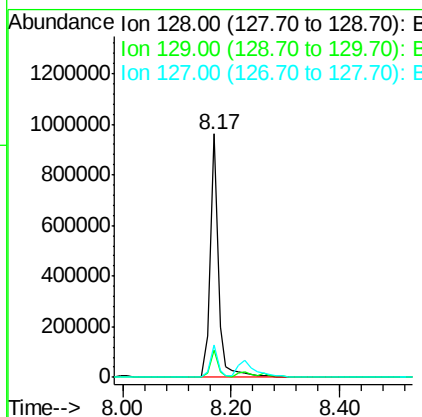
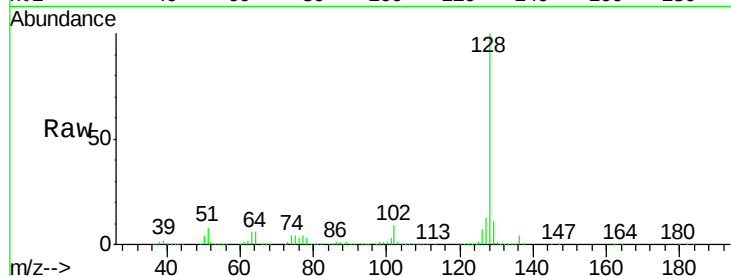
#31
Naphthalene
Concen: 20.27 ng
RT: 8.17 min Scan# 532
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.6	14.4
127	13.3	11.4	17.2

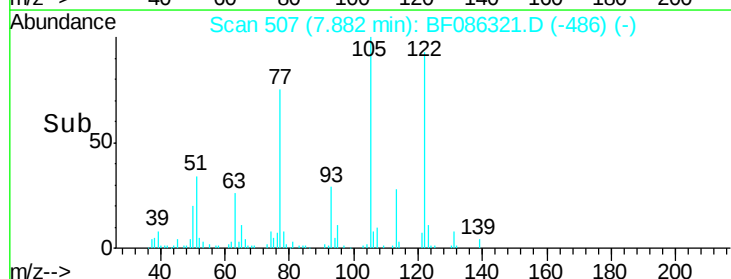
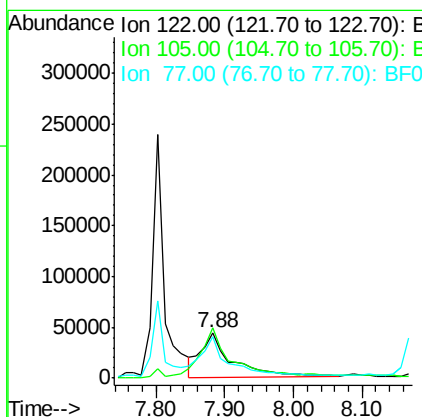
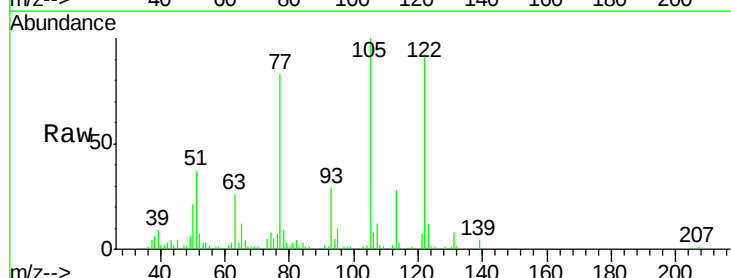
Manual Integrations
APPROVED

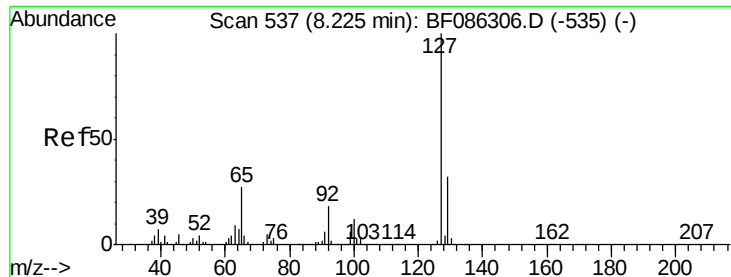
sohil
4/21/2016 7:10:34 PM



#32
Benzoic acid
Concen: 13.53 ng
RT: 7.88 min Scan# 507
Delta R.T. -0.06 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Lower	Upper
122	100		
105	109.1	103.7	143.7
77	90.8	74.9	114.9





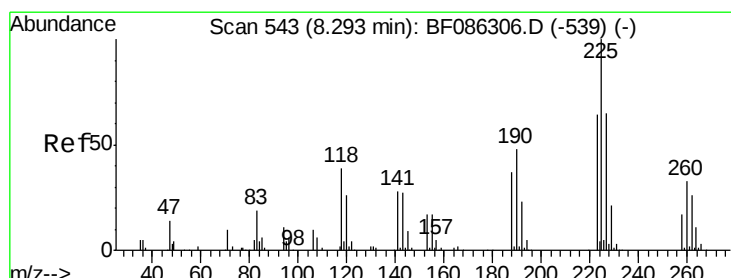
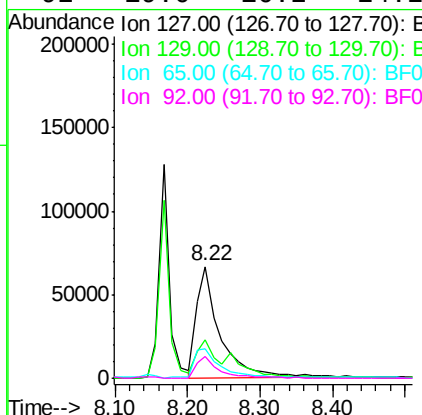
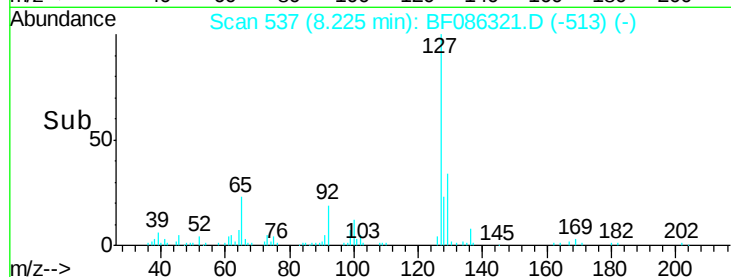
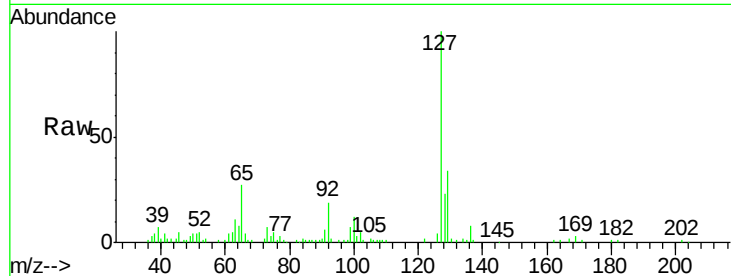
#33
4-Chloroaniline
Concen: 7.12 ng
RT: 8.22 min Scan# 537
Delta R.T. -0.02 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
127	100			
129	34.3	26.8	40.2	
65	26.7	27.1	40.7	
92	19.0	16.2	24.2	

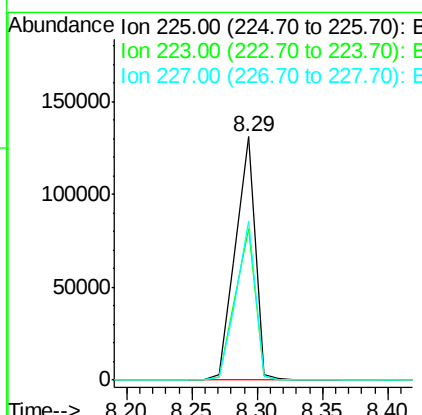
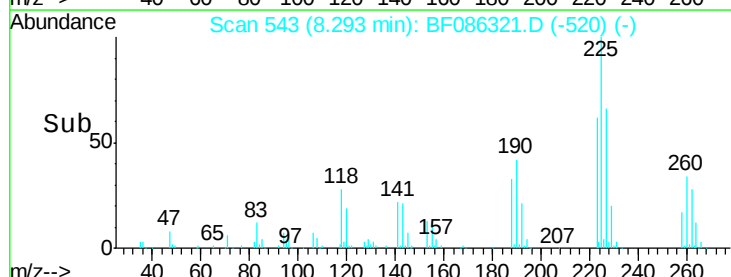
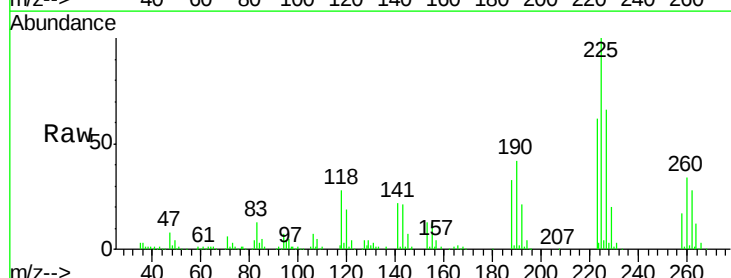
Manual Integrations
APPROVED

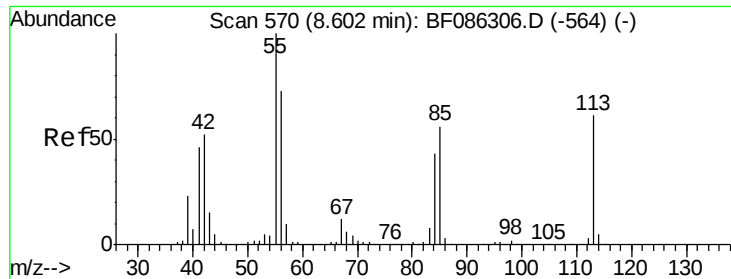
sohil
4/21/2016 7:10:34 PM



#34
Hexachlorobutadiene
Concen: 18.82 ng
RT: 8.29 min Scan# 543
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.4	49.4	74.0	
227	65.5	51.1	76.7	





#35

Caprolactam

Concen: 17.64 ng

RT: 8.57 min Scan# 567

Delta R.T. -0.06 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

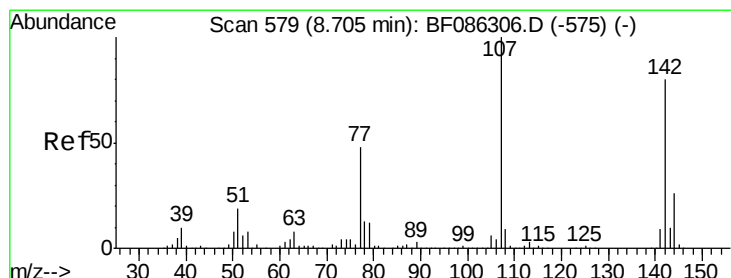
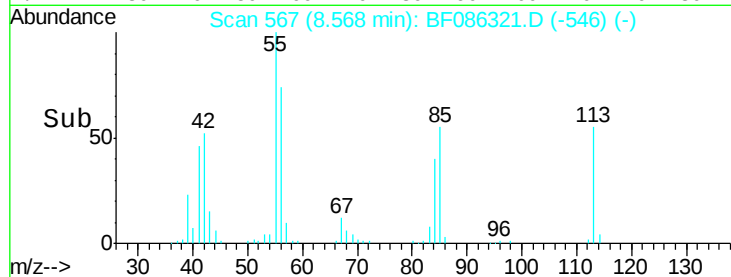
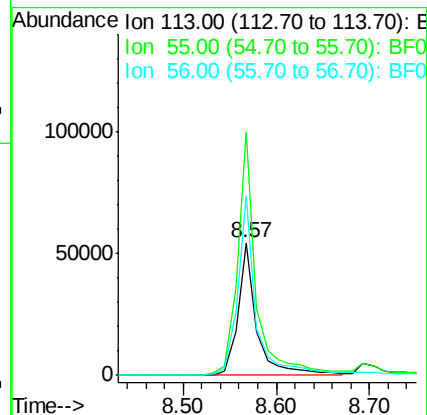
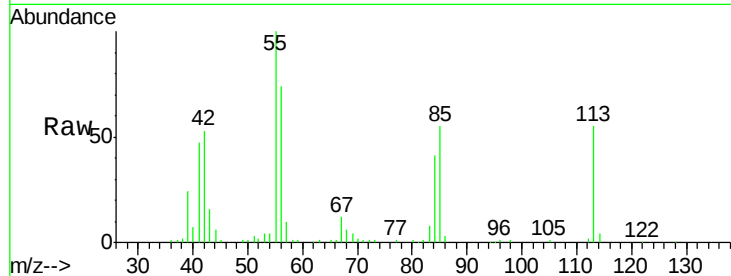
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
113	100		
55	183.4	117.5	157.5#
56	135.7	82.5	122.5#

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#36

4-Chloro-3-methylphenol

Concen: 18.94 ng

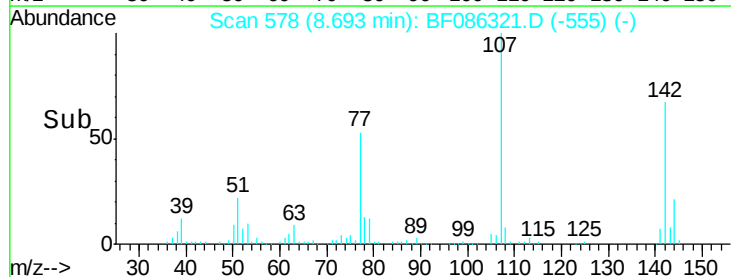
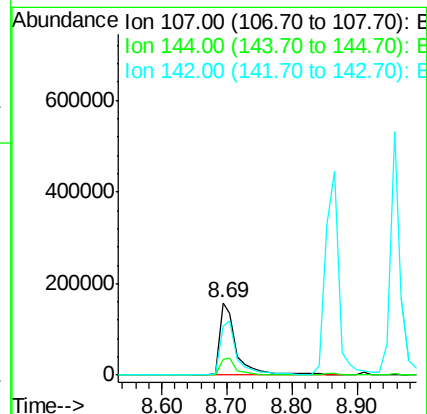
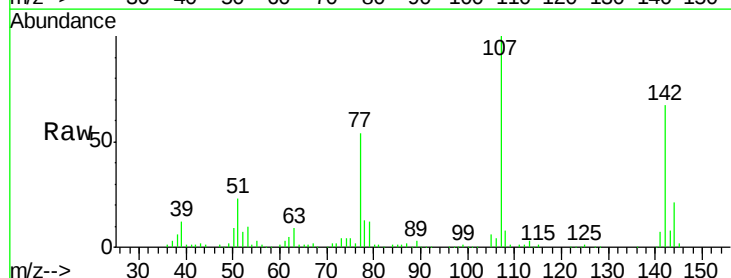
RT: 8.69 min Scan# 578

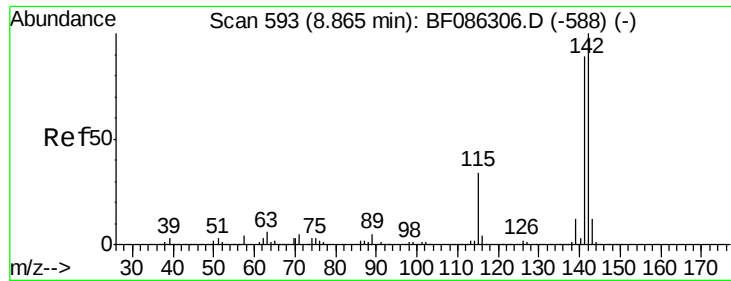
Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Lower	Upper
107	100		
144	21.4	20.7	31.1
142	67.3	64.5	96.7





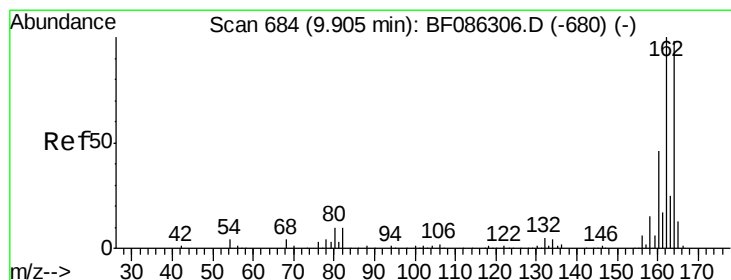
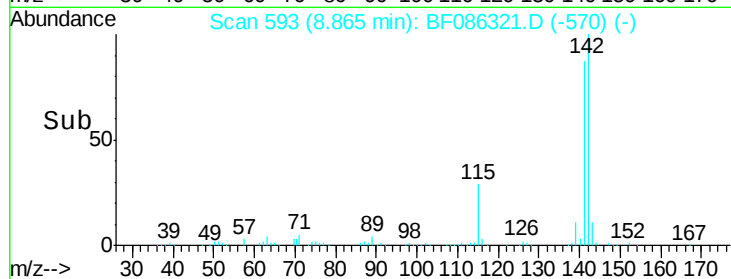
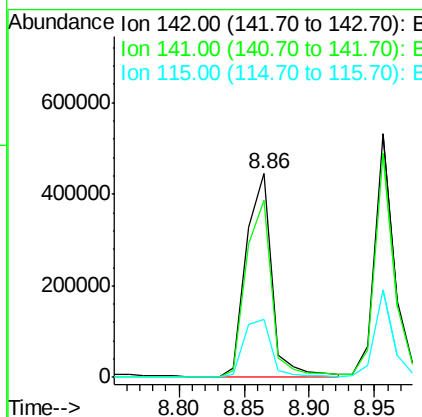
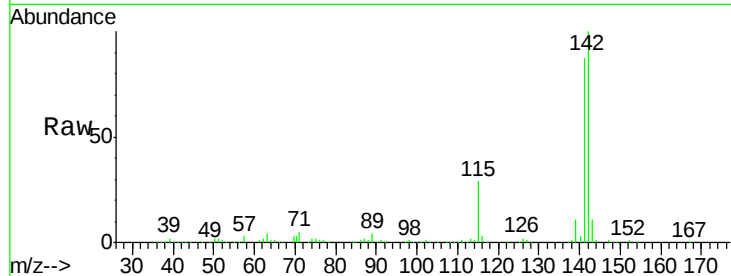
#37
2-Methylnaphthalene
Concen: 19.73 ng
RT: 8.86 min Scan# 593
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion:	142	Resp:	608585
Ion Ratio	Lower	Upper	
142	100		
141	87.3	71.1	106.7
115	28.6	25.1	37.7

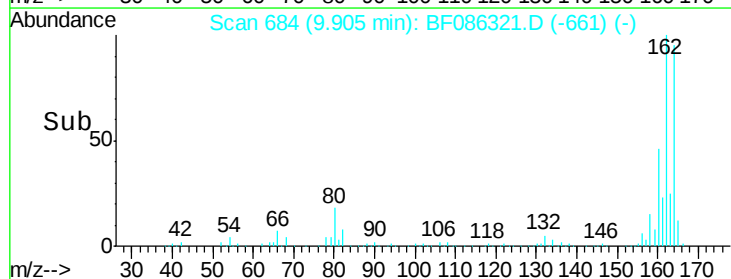
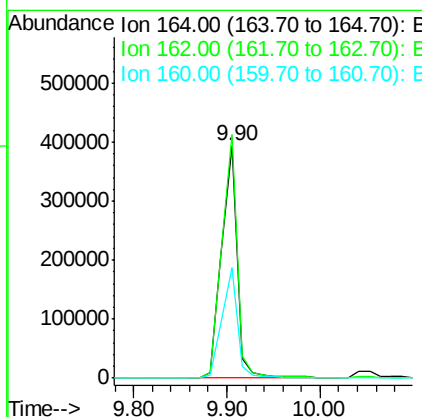
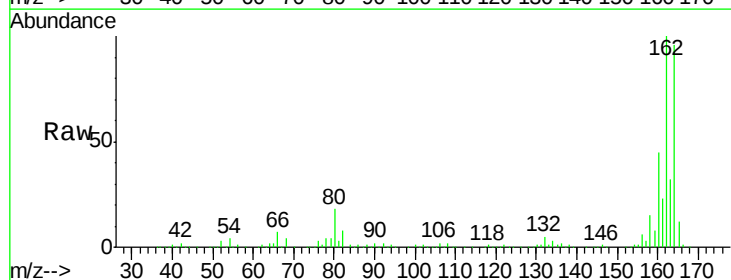
Manual Integrations
APPROVED

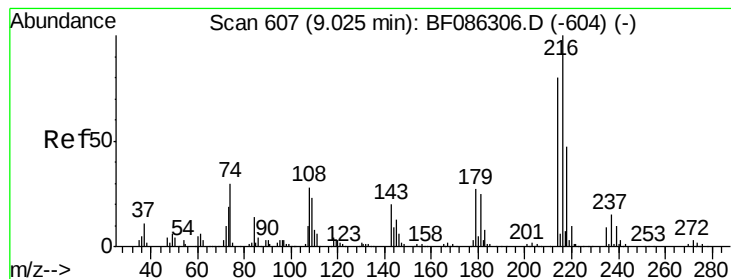
sohil
4/21/2016 7:10:34 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.90 min Scan# 684
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion:	164	Resp:	458722
Ion Ratio	Lower	Upper	
164	100		
162	104.6	82.8	124.2
160	47.5	38.9	58.3





#39

1,2,4,5-Tetrachlorobenzene

Concen: 20.39 ng

RT: 9.02 min Scan# 607

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

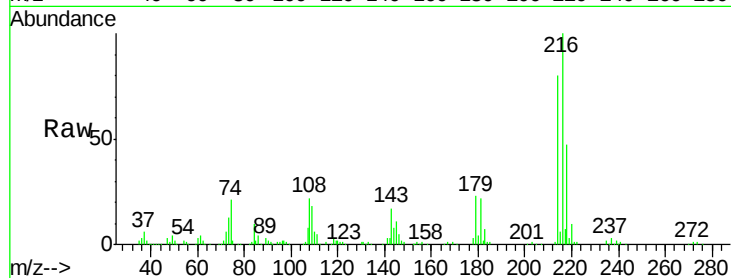
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	216	Resp:	249017
Ion Ratio		Lower	Upper
216	100		
214	78.7	64.9	97.3
179	22.5	19.8	29.6
108	21.7	21.0	31.4

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM

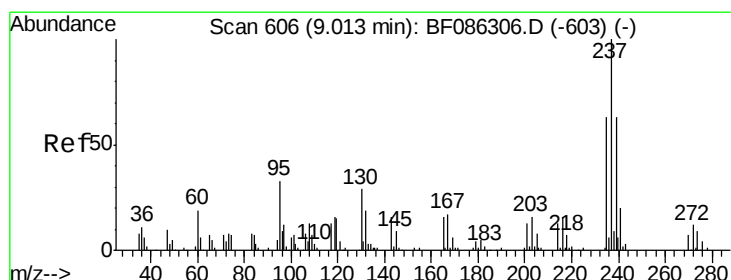
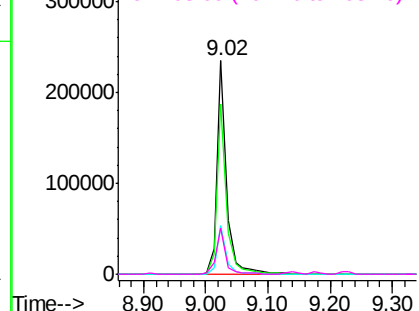
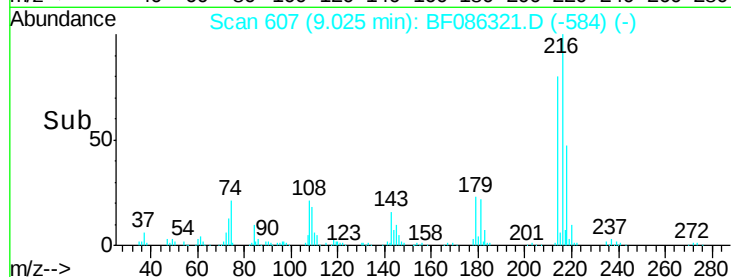


Abundance Ion 216.00 (215.70 to 216.70): E

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: 19.62 ng

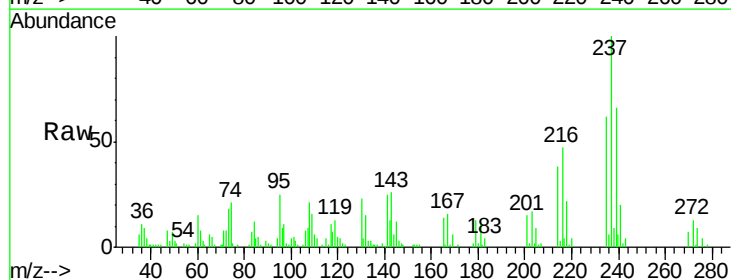
RT: 9.01 min Scan# 606

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

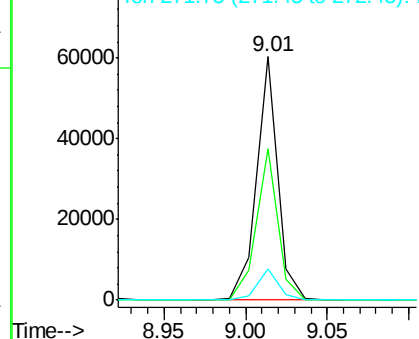
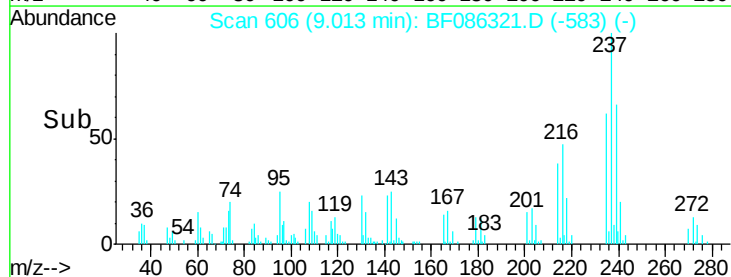
Tgt Ion:	237	Resp:	54384
Ion Ratio		Lower	Upper
237	100		
235	62.0	44.0	84.0
272	12.6	0.0	32.4

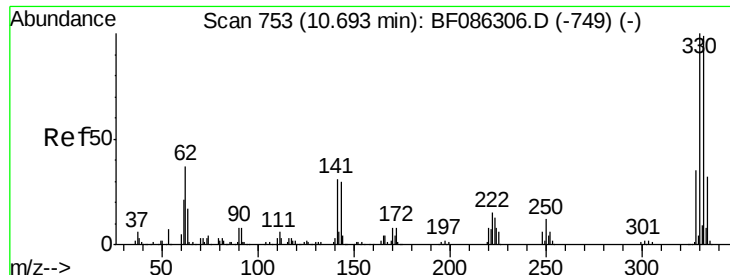


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E





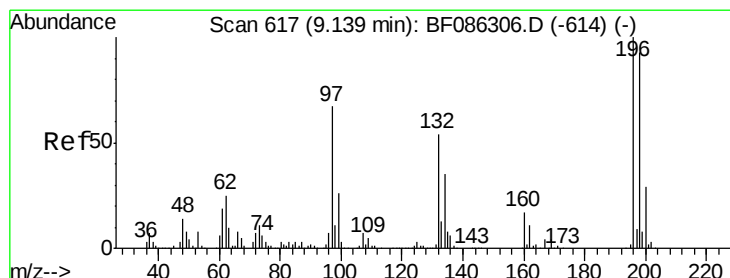
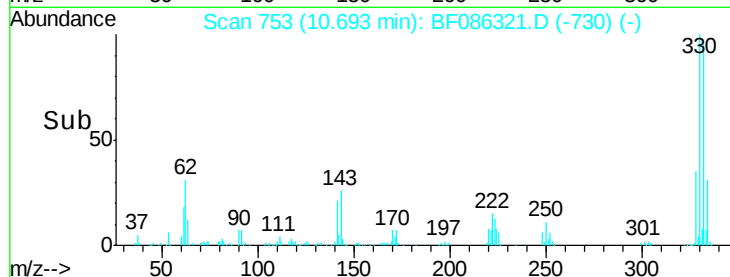
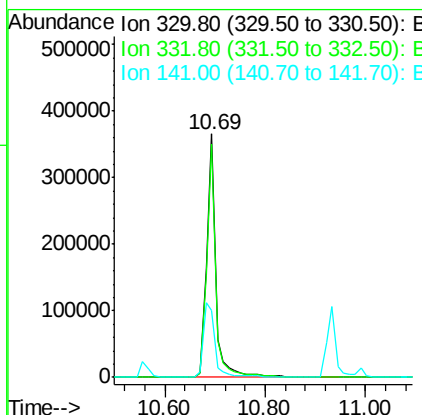
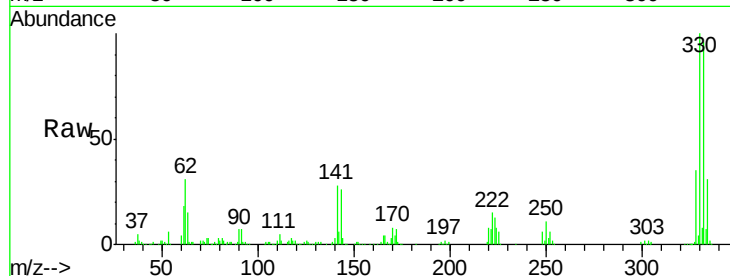
#41
 2,4,6-Tribromophenol
 Concen: 130.60 ng
 RT: 10.69 min Scan# 753
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
330	100	466956		
332	94.0	78.7	118.1	
141	38.4	28.6	42.8	

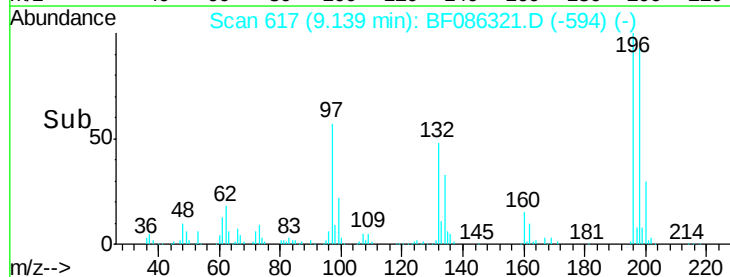
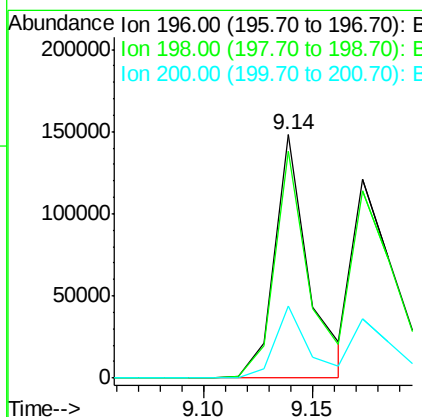
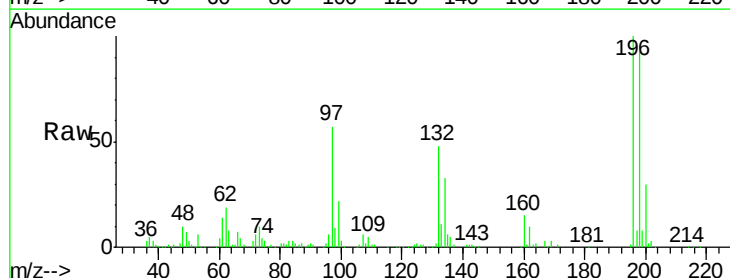
Manual Integrations
 APPROVED

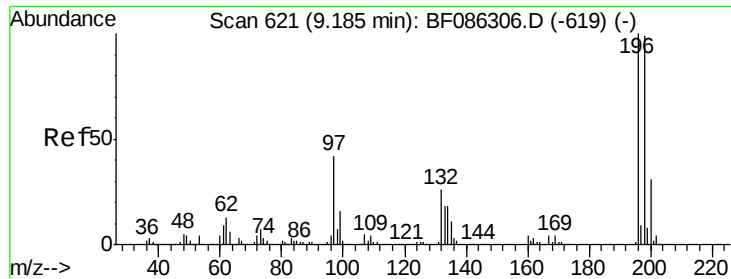
sohil
 4/21/2016 7:10:34 PM



#42
 2,4,6-Trichlorophenol
 Concen: 19.07 ng
 RT: 9.14 min Scan# 617
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	161523		
198	93.1	76.6	115.0	
200	29.7	25.3	37.9	





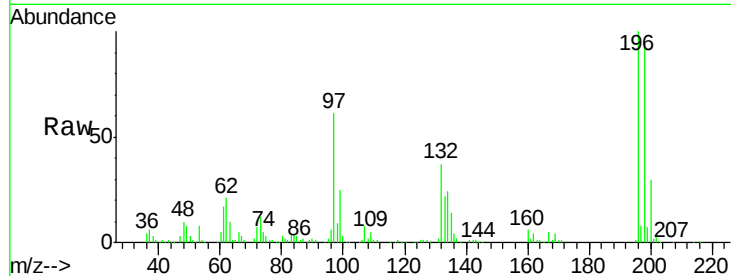
#43
 2,4,5-Trichlorophenol
 Concen: 19.44 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
196	100	179368		
198	94.0	77.7	116.5	
97	60.7	32.6	48.8#	
132	36.6	21.4	32.0#	

Manual Integrations
 APPROVED

sohil
 4/21/2016 7:10:34 PM



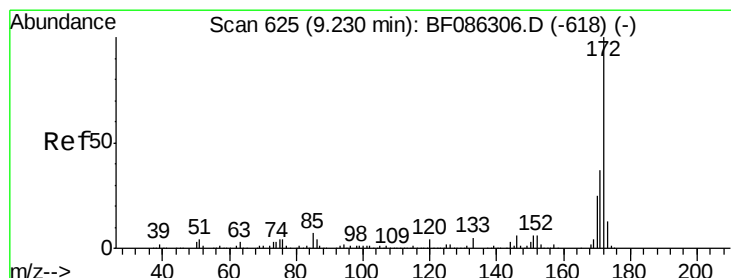
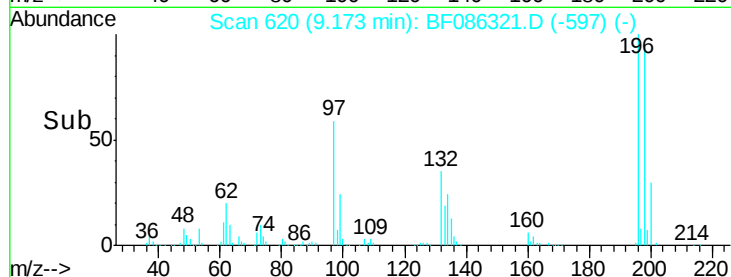
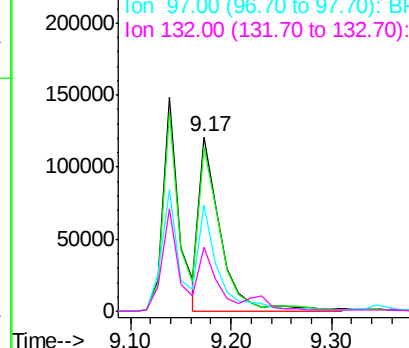
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

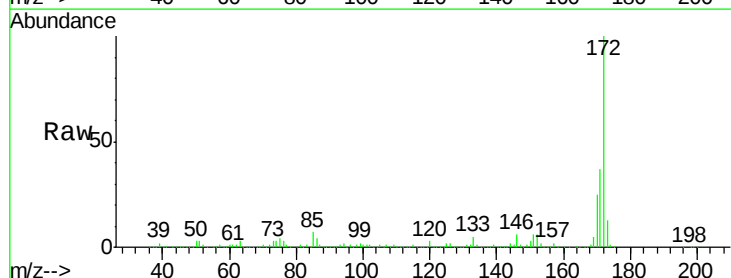
Ion 97.00 (96.70 to 97.70): BF0

Ion 132.00 (131.70 to 132.70): E



#44
 2-Fluorobiphenyl
 Concen: 107.79 ng
 RT: 9.23 min Scan# 625
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	2441811		
171	36.7	29.1	43.7	
170	25.1	19.9	29.9	

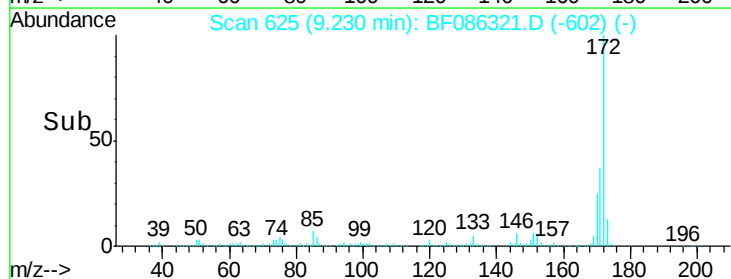
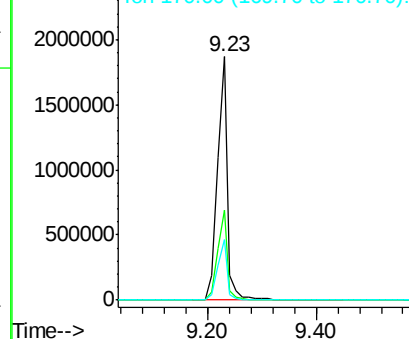


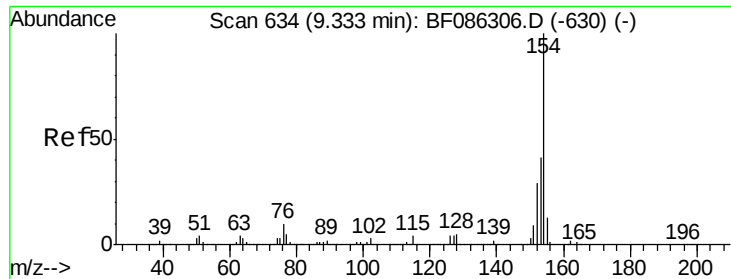
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 20.63 ng

RT: 9.32 min Scan# 633

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

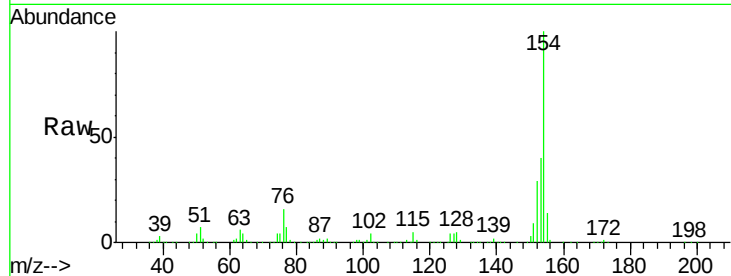
ClientSampleId :

LOQ-SOIL2016-02

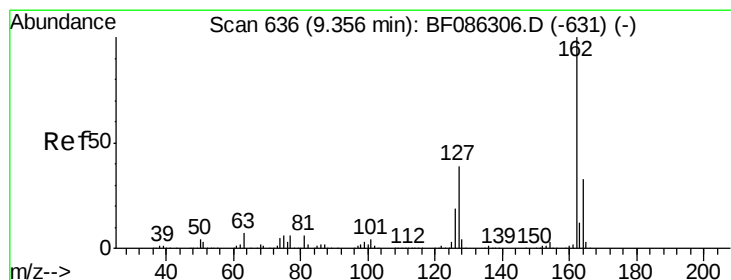
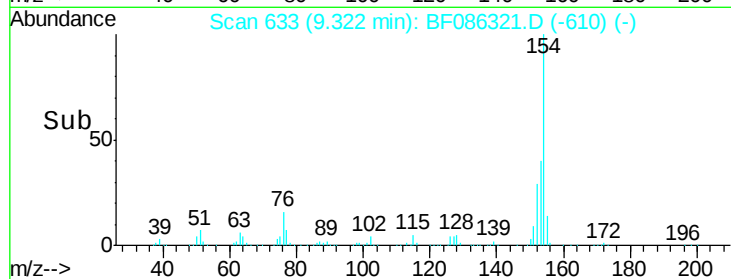
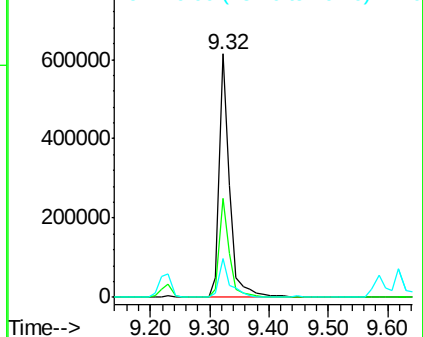
Tot Ion:	154	Resp:	743323
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.3	61.3
76	15.8	0.0	36.4

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#46

2-Chloronaphthalene

Concen: 20.19 ng

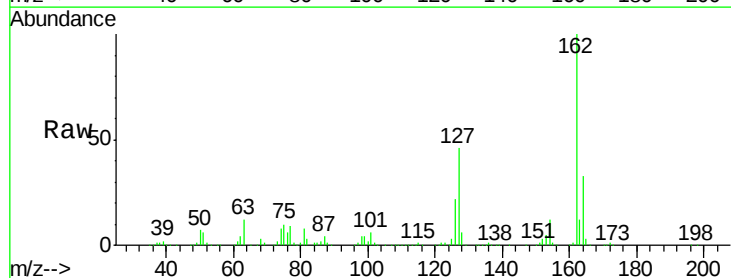
RT: 9.34 min Scan# 635

Delta R.T. -0.03 min

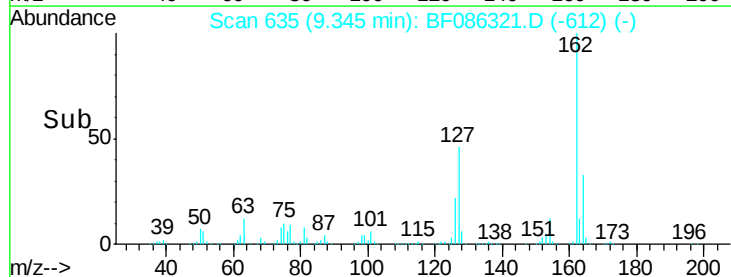
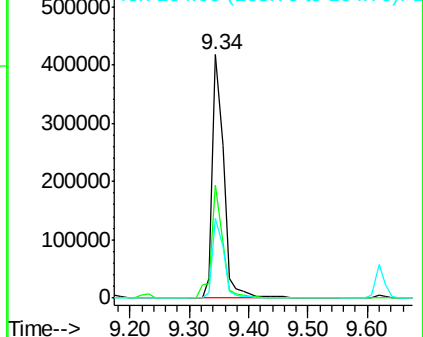
Lab File: BF086321.D

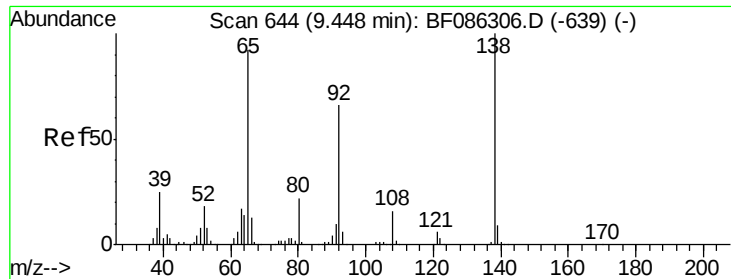
Acq: 20 Apr 2016 21:10

Tgt Ion:	162	Resp:	551274
Ion Ratio	Lower	Upper	
162	100		
127	46.5	36.7	55.1
164	32.6	26.4	39.6



Abundance Ion 162.00 (161.70 to 162.70): E
Ion 127.00 (126.70 to 127.70): E
Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 18.60 ng

RT: 9.45 min Scan# 644

Delta R.T. -0.02 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tot Ion: 65 Resp: 172606

Ion Ratio Lower Upper

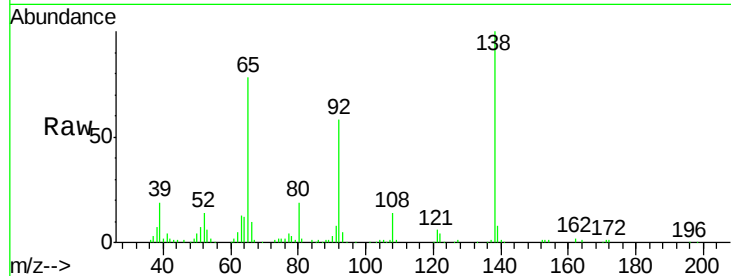
65 100

92 74.6 51.9 77.9

138 128.0 72.6 108.8#

Manual Integrations
APPROVED

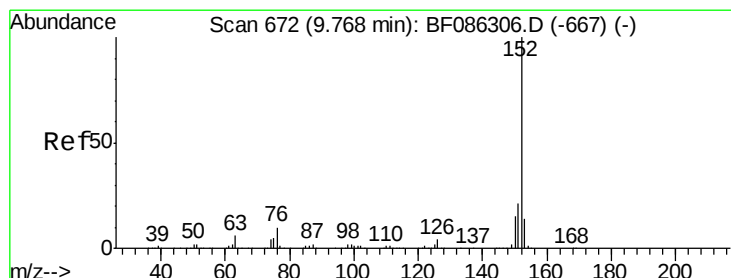
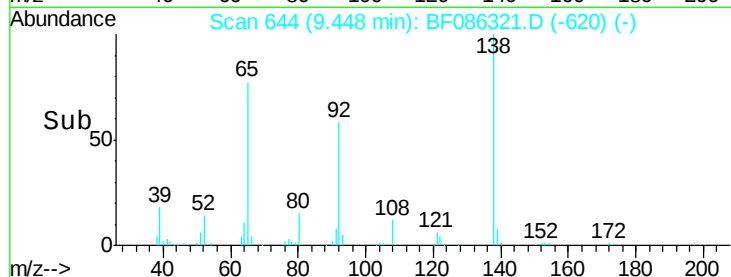
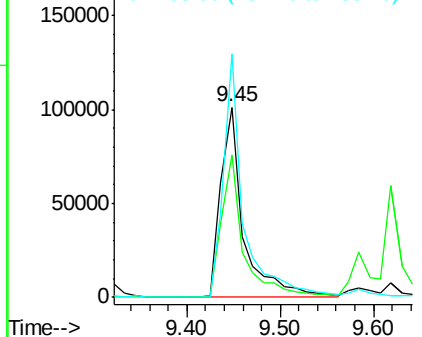
sohil
4/21/2016 7:10:34 PM



Abundance Ion 65.00 (64.70 to 65.70): BF0

Ion 92.00 (91.70 to 92.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#48

Acenaphthylene

Concen: 20.81 ng

RT: 9.76 min Scan# 671

Delta R.T. -0.04 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

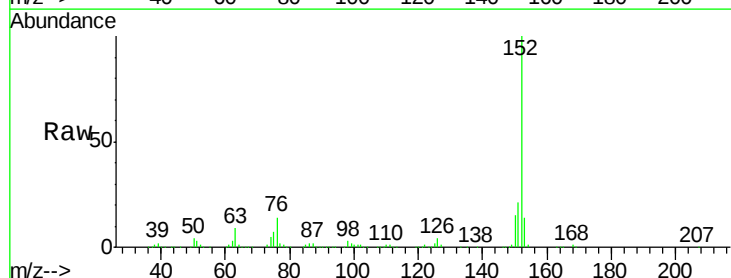
Tgt Ion: 152 Resp: 886891

Ion Ratio Lower Upper

152 100

151 20.7 17.2 25.8

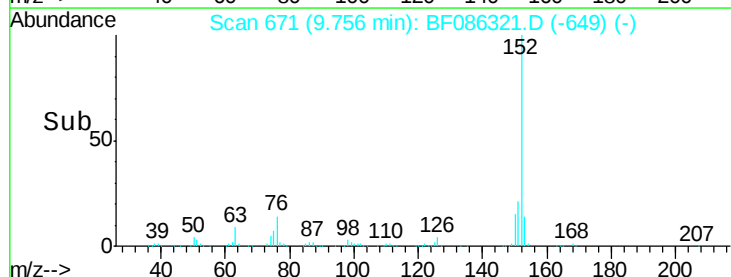
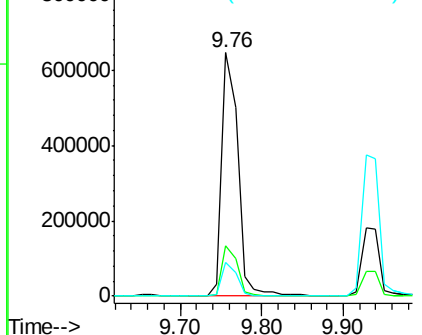
153 13.8 10.7 16.1

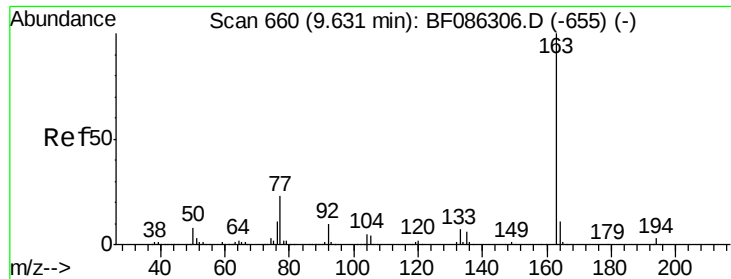


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





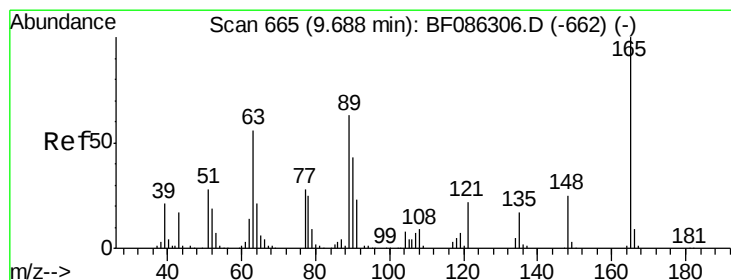
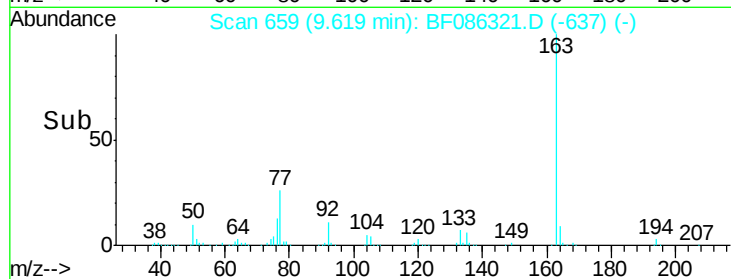
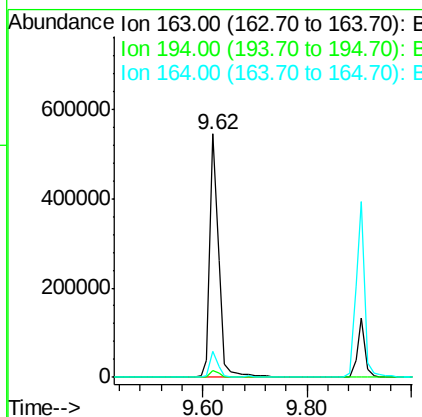
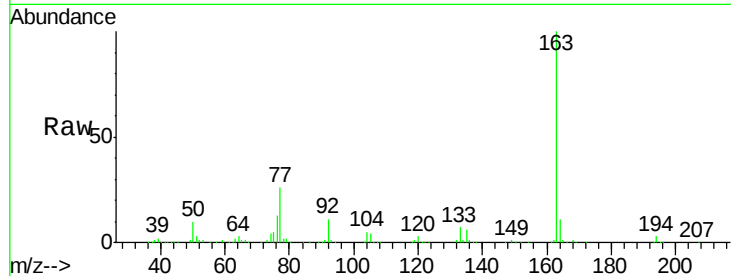
#49
Dimethylphthalate
Concen: 18.32 ng
RT: 9.62 min Scan# 659
Delta R.T. -0.05 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
163	100	639674		
194	2.9		2.8	4.2
164	10.6		8.4	12.6

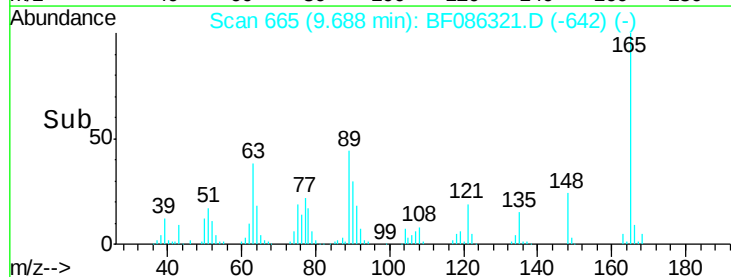
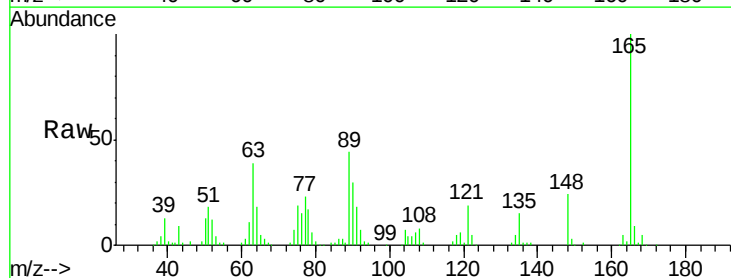
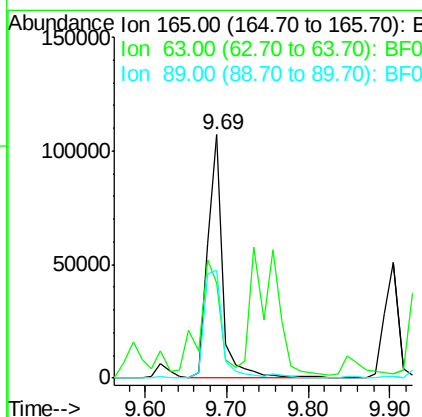
Manual Integrations
APPROVED

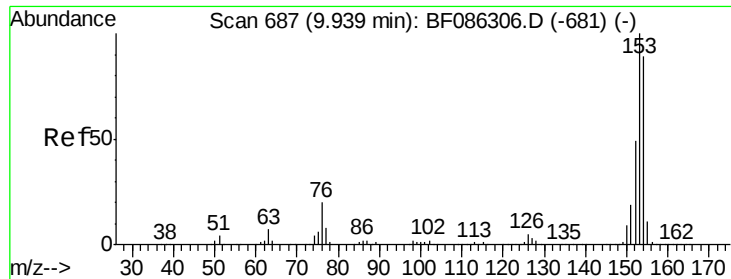
sohil
4/21/2016 7:10:34 PM



#50
2,6-Dinitrotoluene
Concen: 19.35 ng
RT: 9.69 min Scan# 665
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	139085		
63	39.3		35.1	52.7
89	44.3		39.8	59.6





#51

Acenaphthene

Concen: 20.85 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.05 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

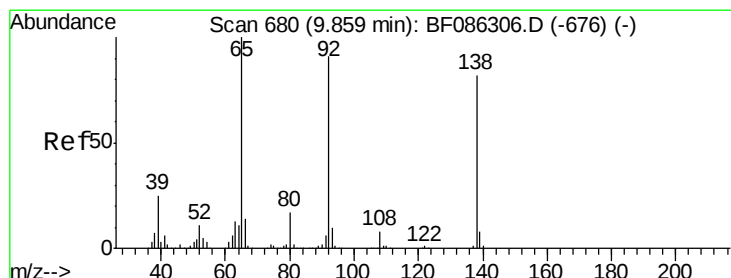
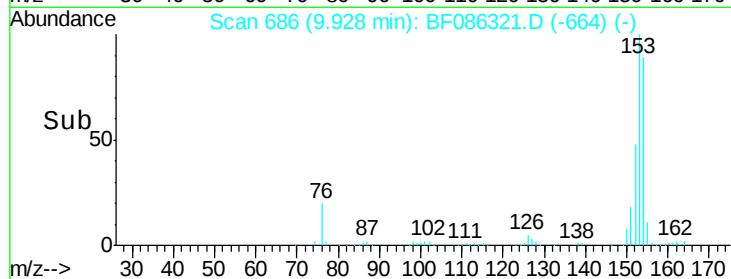
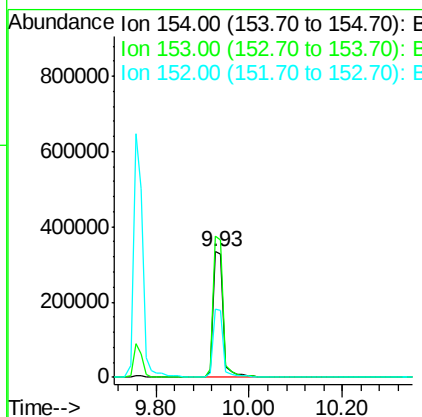
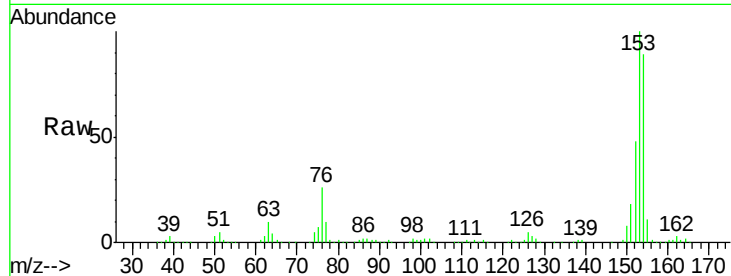
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	154	Resp:	521433
Ion Ratio	Lower	Upper	
154	100		
153	112.5	90.0	135.0
152	54.3	44.3	66.5

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#52

3-Nitroaniline

Concen: 11.69 ng

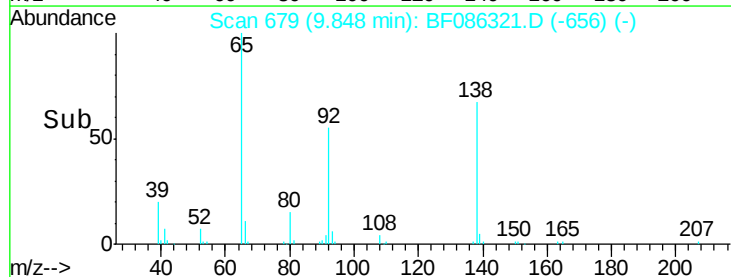
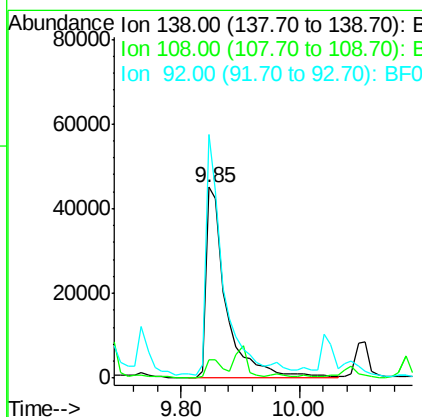
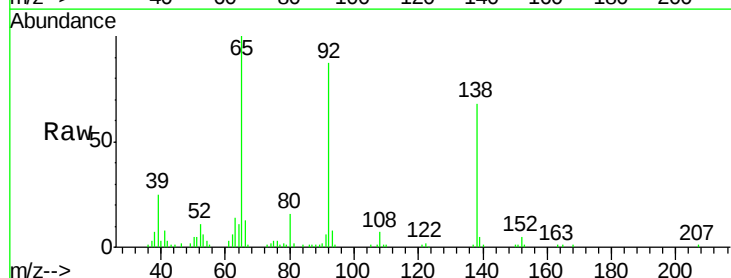
RT: 9.85 min Scan# 679

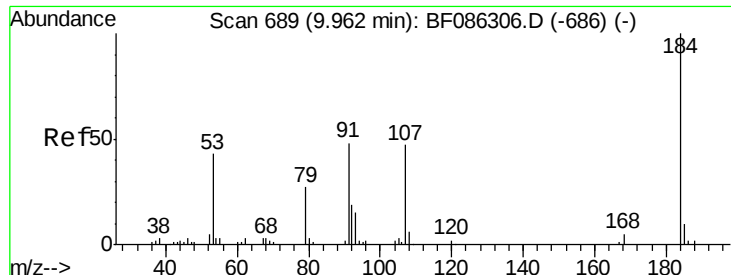
Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	138	Resp:	106821
Ion Ratio	Lower	Upper	
138	100		
108	9.9	9.0	13.4
92	127.5	99.3	148.9





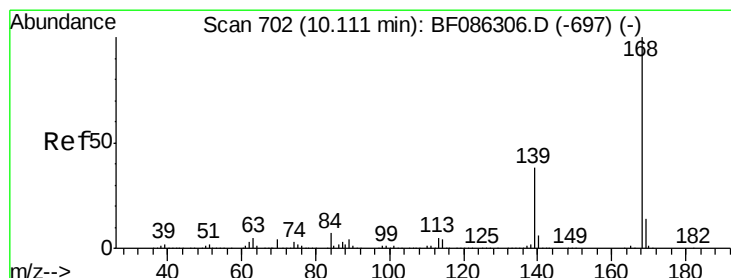
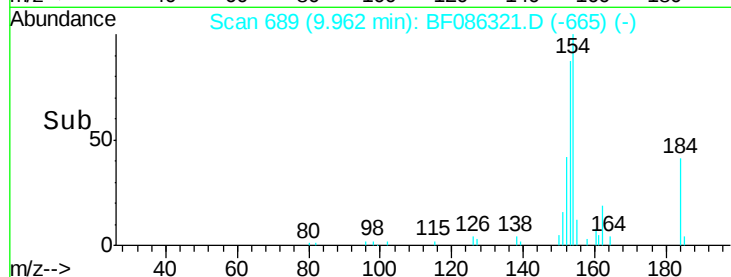
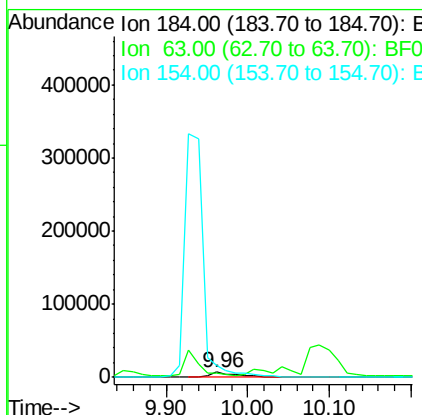
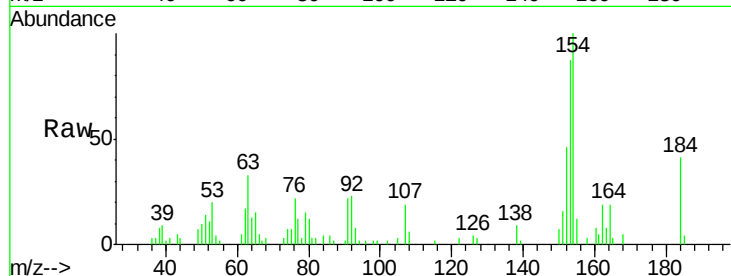
#53
2,4-Dinitrophenol
Concen: 17.26 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.02 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
184	100			
63	79.6	64.7	97.1	
154	244.7	59.4	89.2	

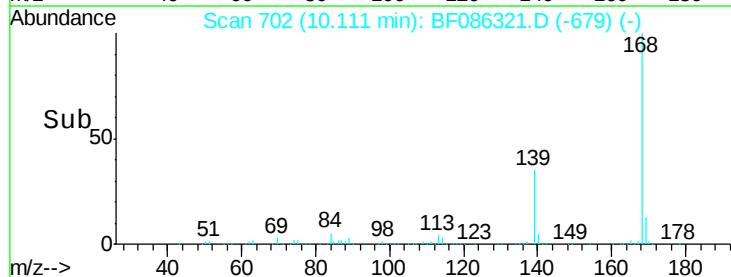
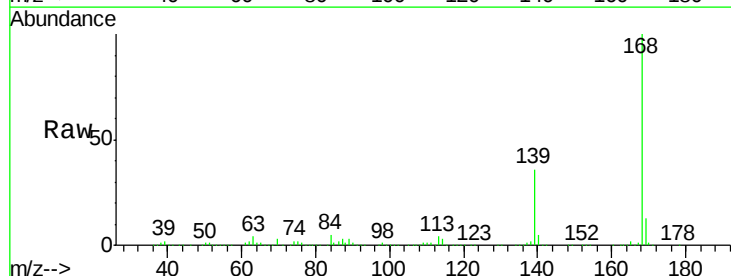
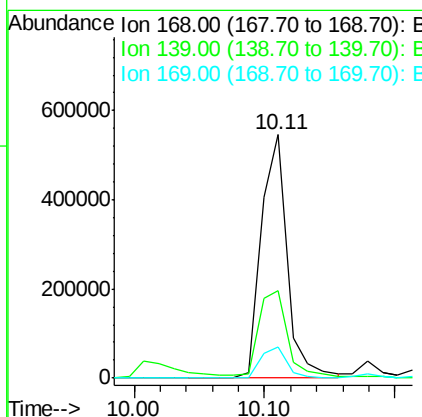
Manual Integrations
APPROVED

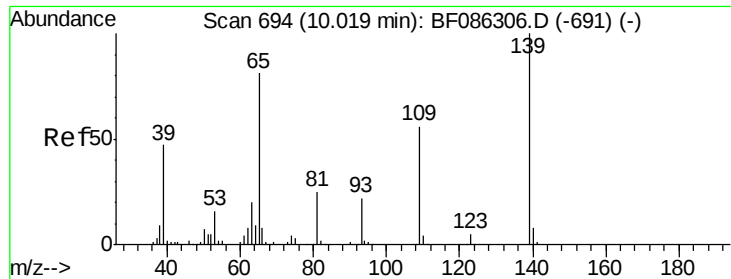
sohil
4/21/2016 7:10:34 PM



#54
Dibenzofuran
Concen: 22.36 ng
RT: 10.11 min Scan# 702
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
168	100			
139	36.0	29.5	44.3	
169	12.9	10.6	16.0	





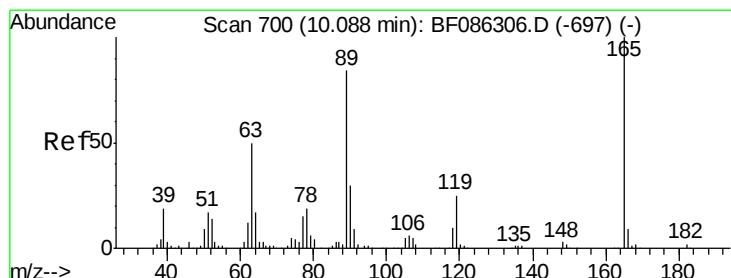
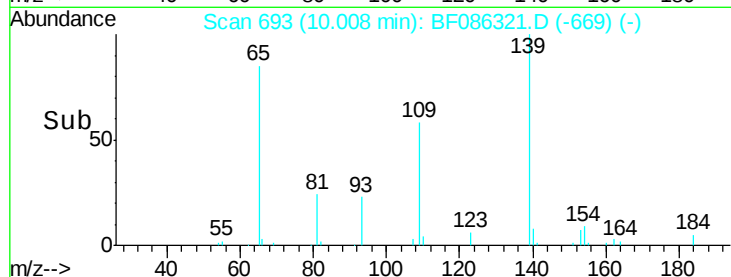
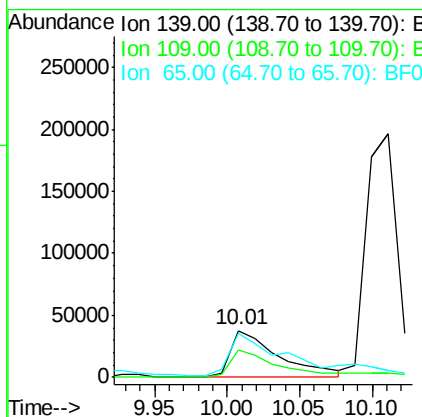
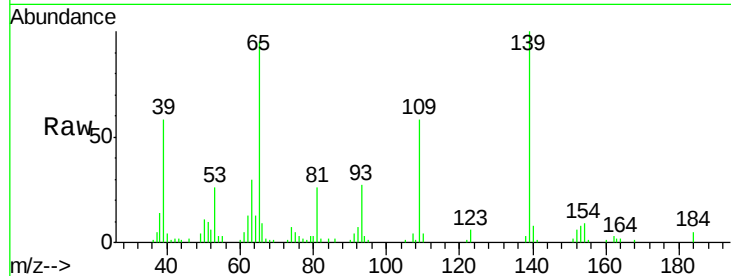
#55
4-Nitrophenol
Concen: 15.59 ng
RT: 10.01 min Scan# 693
Delta R.T. -0.02 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
139	100			
109	57.6	55.0	95.0	
65	95.0	87.3	127.3	

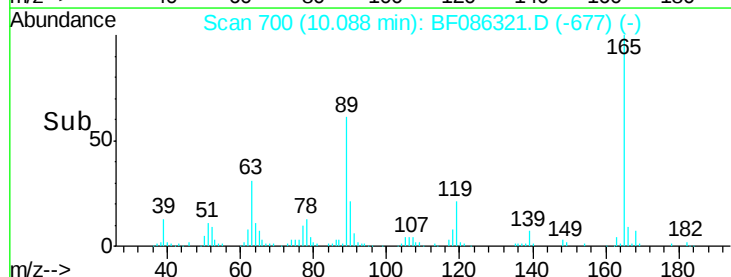
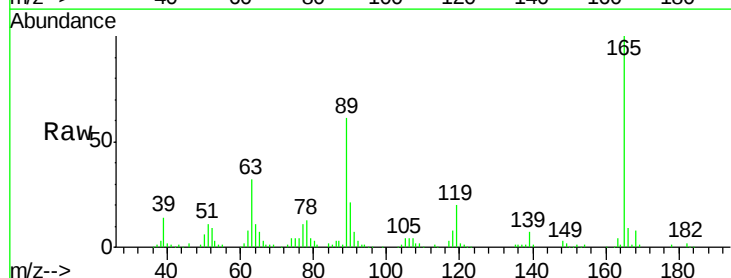
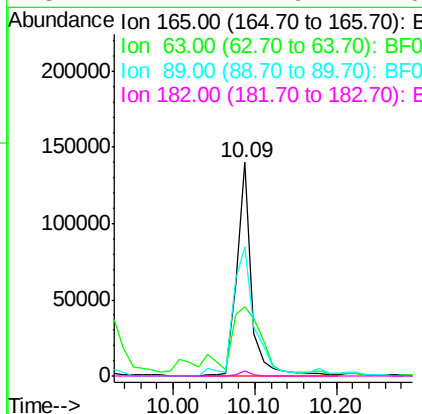
Manual Integrations
APPROVED

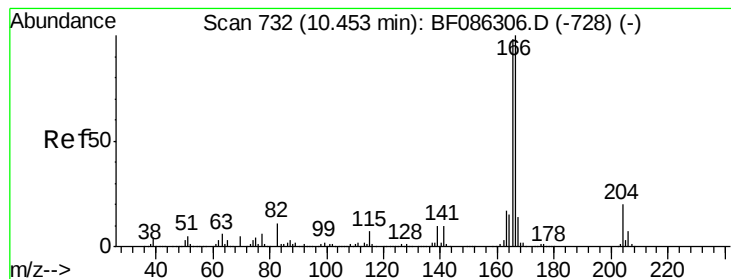
sohil
4/21/2016 7:10:34 PM



#56
2,4-Dinitrotoluene
Concen: 20.13 ng
RT: 10.09 min Scan# 700
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
165	100			
63	32.2	26.6	40.0	
89	60.6	49.5	74.3	
182	2.4	1.9	2.9	





#57

Fluorene

Concen: 21.81 ng

RT: 10.44 min Scan# 731

Delta R.T. -0.04 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

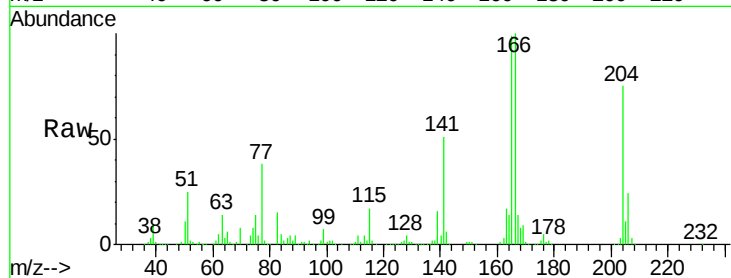
ClientSampleId :

LOQ-SOIL2016-02

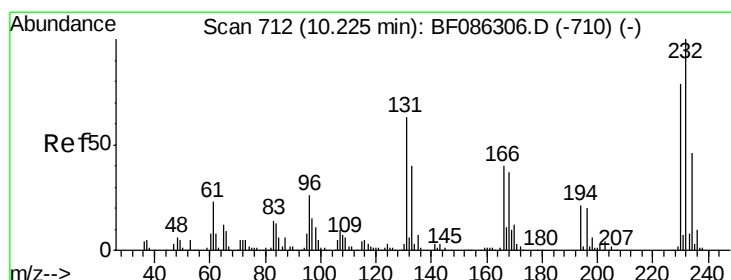
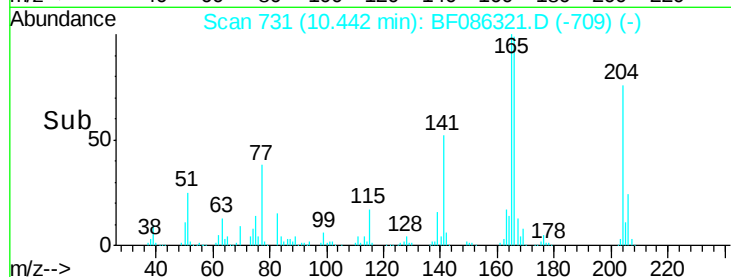
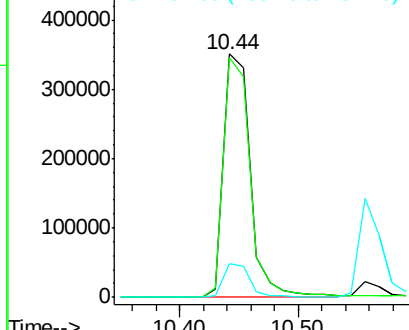
Tot Ion:	166	Resp:	549420
Ion Ratio	Lower	Upper	
166	100		
165	98.7	78.6	117.8
167	13.9	10.4	15.6

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#58

2,3,4,6-Tetrachlorophenol

Concen: 22.26 ng

RT: 10.22 min Scan# 712

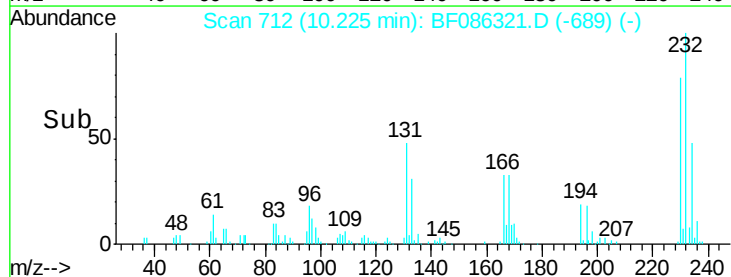
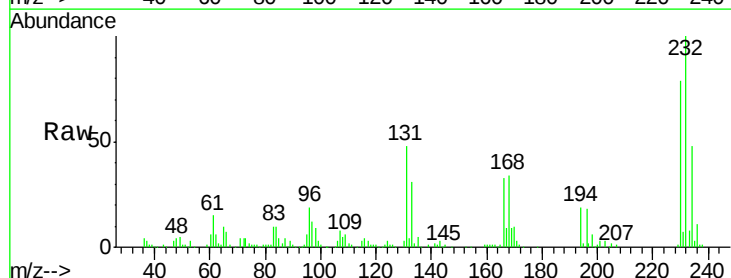
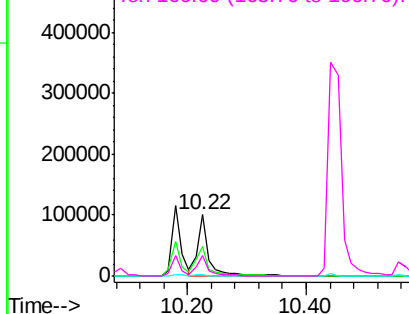
Delta R.T. -0.03 min

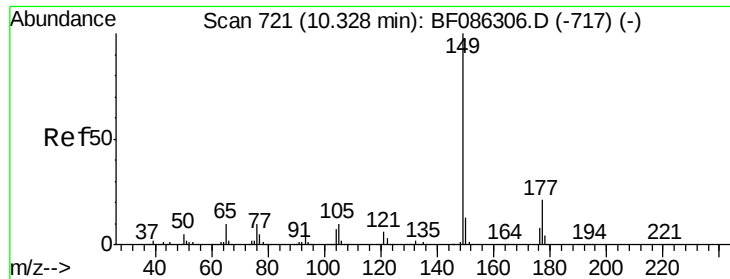
Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	232	Resp:	137779
Ion Ratio	Lower	Upper	
232	100		
131	47.6	46.6	70.0
130	2.7	2.5	3.7
166	31.6	28.3	42.5

Abundance Ion 232.00 (231.70 to 232.70): E
Ion 131.00 (130.70 to 131.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 166.00 (165.70 to 166.70): E





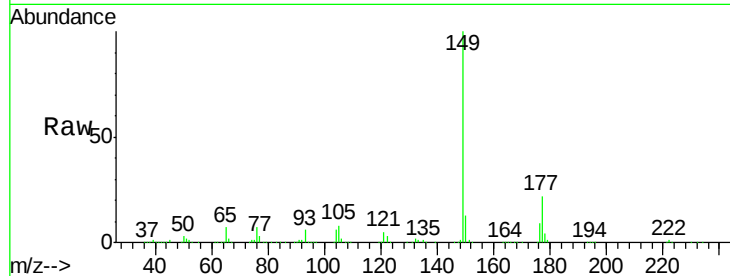
#59
Diethylphthalate
Concen: 19.00 ng
RT: 10.33 min Scan# 721
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

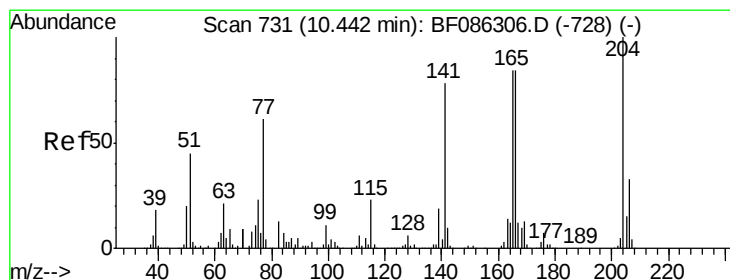
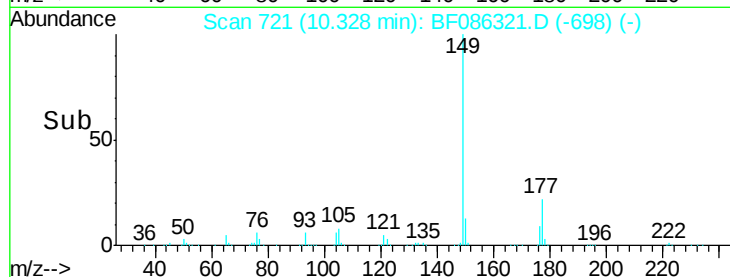
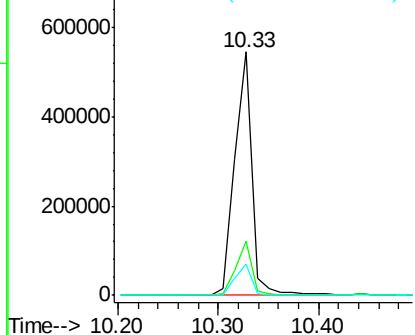
Tot Ion	Ratio	Resp	Lower	Upper
149	100	647573		
177	22.5	17.0	25.6	
150	12.6	10.2	15.4	

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM

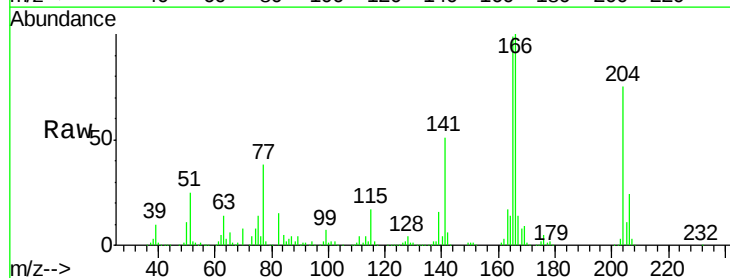


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 177.00 (176.70 to 177.70): E
Ion 150.00 (149.70 to 150.70): E

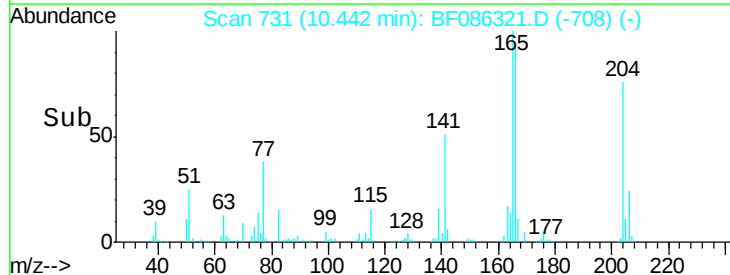
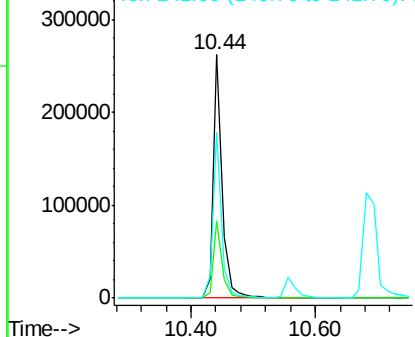


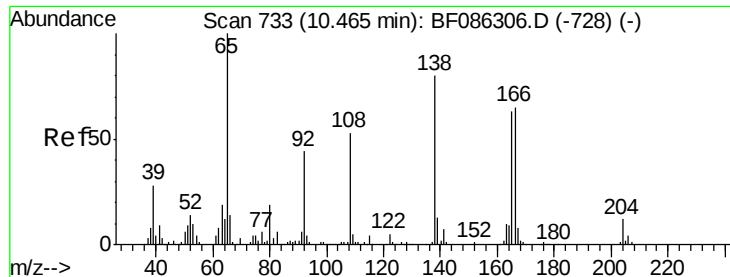
#60
4-Chlorophenyl-phenylether
Concen: 22.15 ng
RT: 10.44 min Scan# 731
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
204	100	258477		
206	31.9	26.2	39.2	
141	68.1	55.4	83.0	



Abundance Ion 204.00 (203.70 to 204.70): E
Ion 206.00 (205.70 to 206.70): E
Ion 141.00 (140.70 to 141.70): E





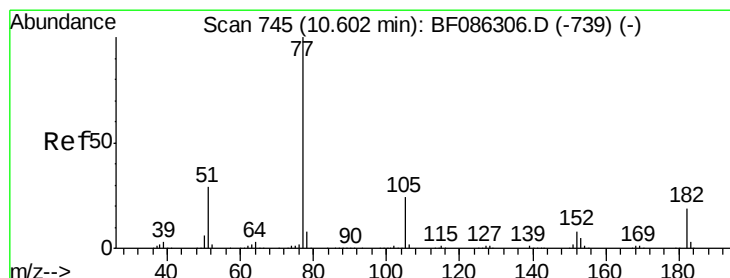
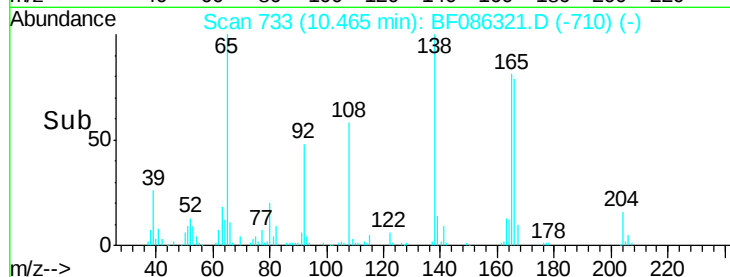
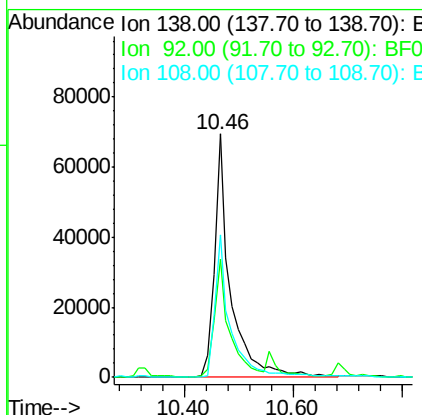
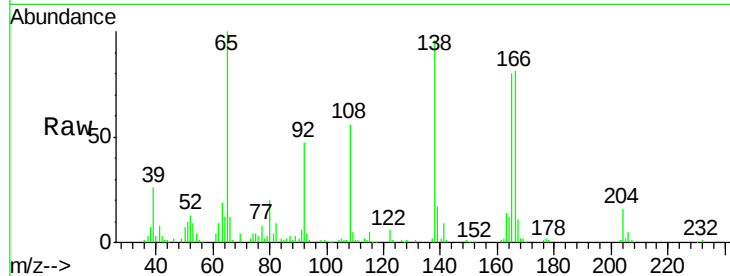
#61
4-Nitroaniline
Concen: 16.89 ng
RT: 10.46 min Scan# 733
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
138	100	144471		
92	48.5	31.9	71.9	
108	58.3	58.7	98.7#	

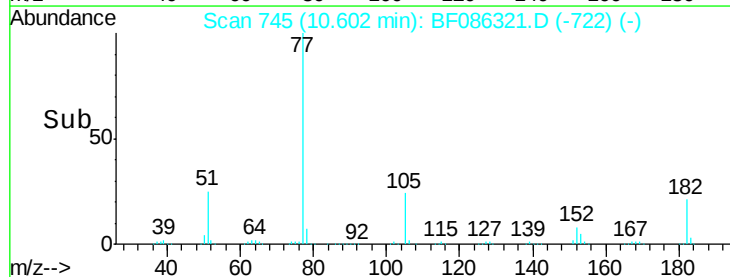
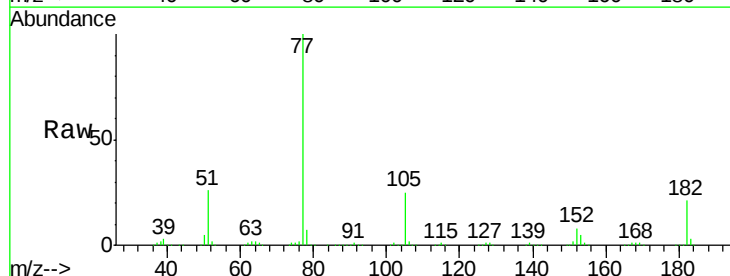
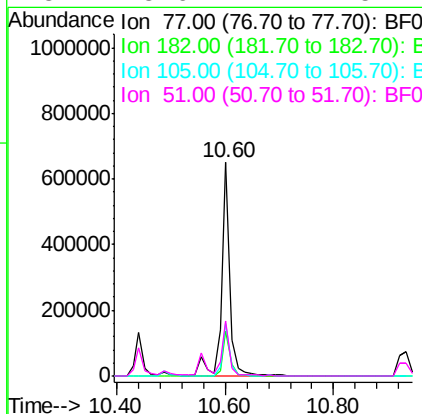
Manual Integrations
APPROVED

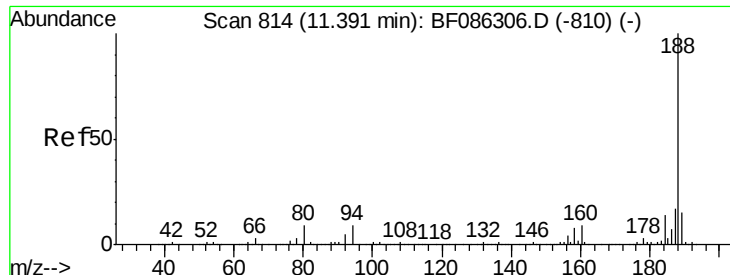
sohil
4/21/2016 7:10:34 PM



#62
Azobenzene
Concen: 21.53 ng
RT: 10.60 min Scan# 745
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
77	100	723229		
182	20.9	2.3	42.3	
105	24.6	3.4	43.4	
51	25.6	11.7	51.7	





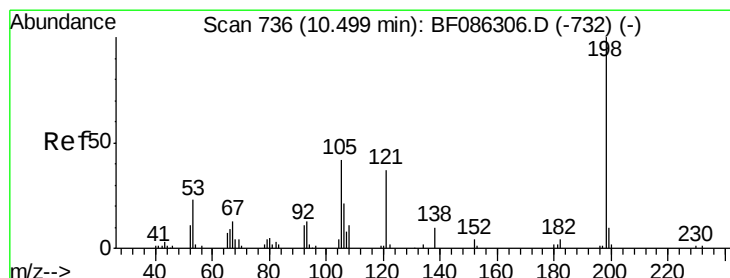
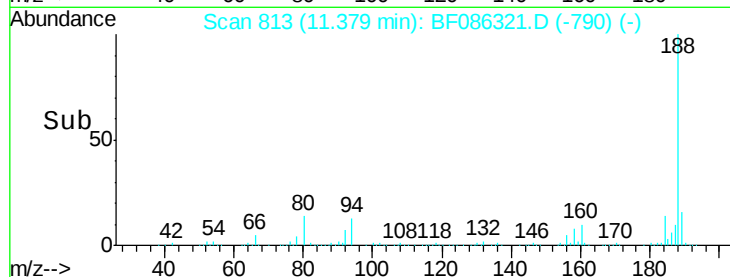
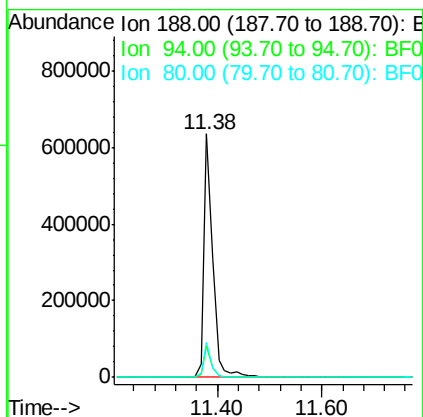
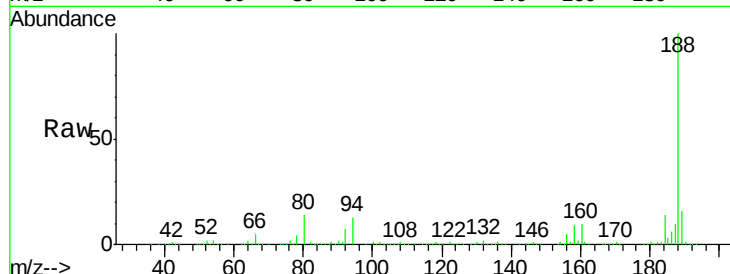
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.38 min Scan# 813
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
188	100	752051		
94	12.9		9.8	14.8
80	14.4		10.5	15.7

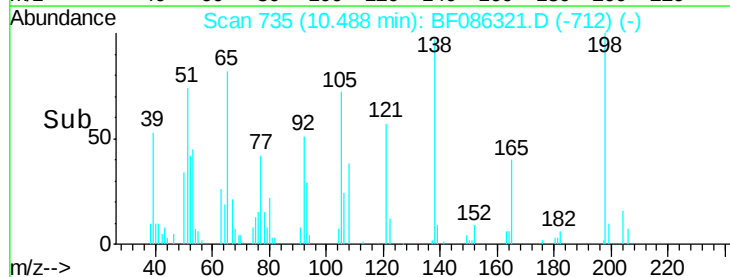
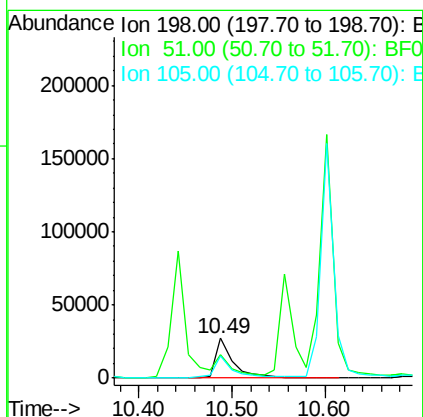
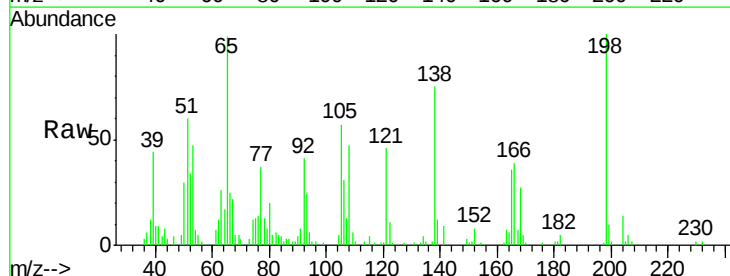
Manual Integrations
APPROVED

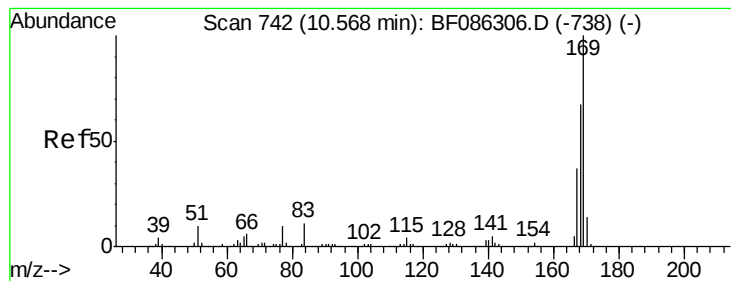
sohil
4/21/2016 7:10:34 PM



#64
4,6-Dinitro-2-methylphenol
Concen: 19.42 ng
RT: 10.49 min Scan# 735
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
198	100	36176		
51	60.4		56.5	96.5
105	57.0		48.0	88.0





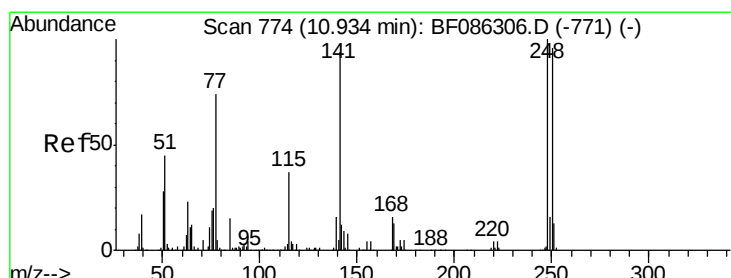
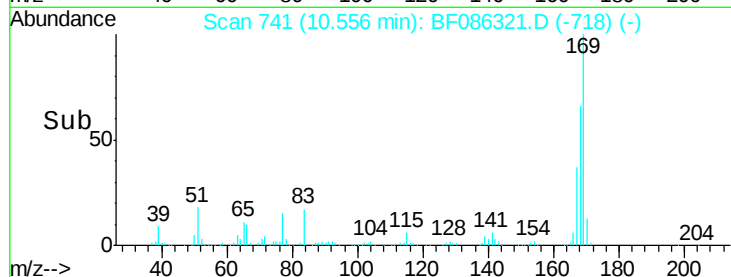
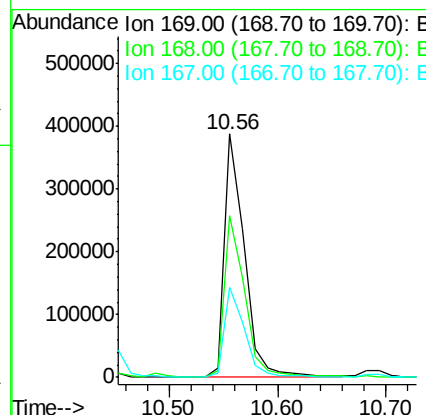
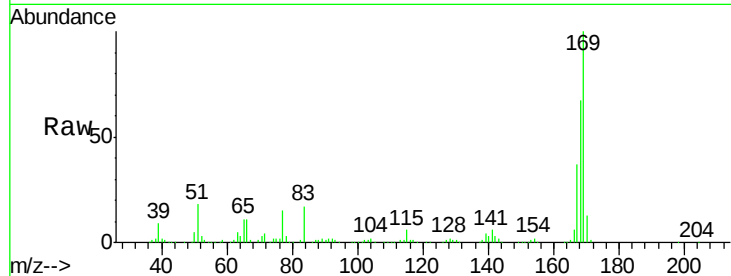
#65
n-Nitrosodiphenylamine
Concen: 20.07 ng
RT: 10.56 min Scan# 741
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
169	100	497254		
168	66.6	54.3	81.5	
167	36.9	30.2	45.2	

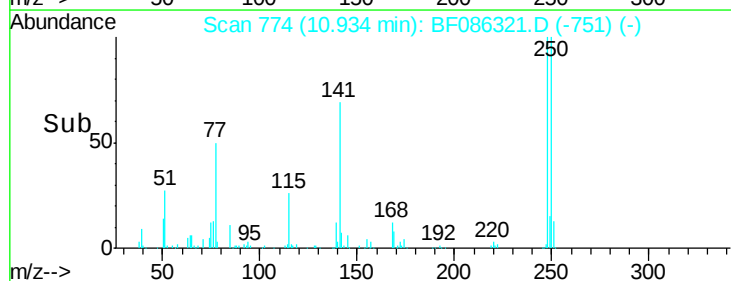
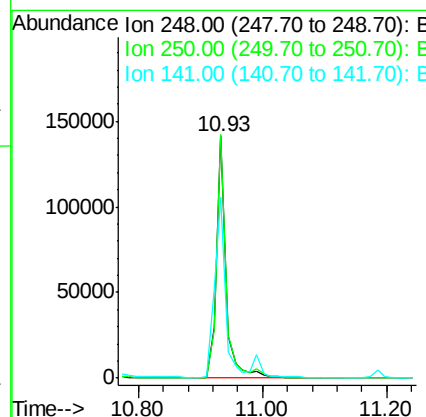
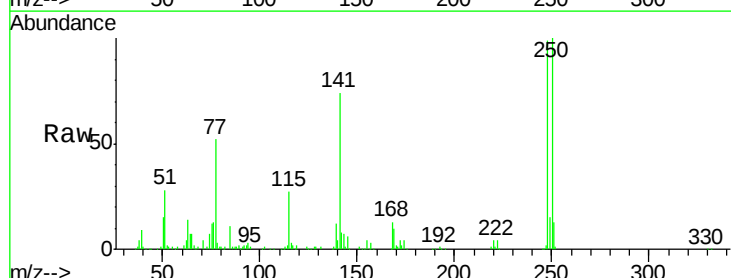
Manual Integrations
APPROVED

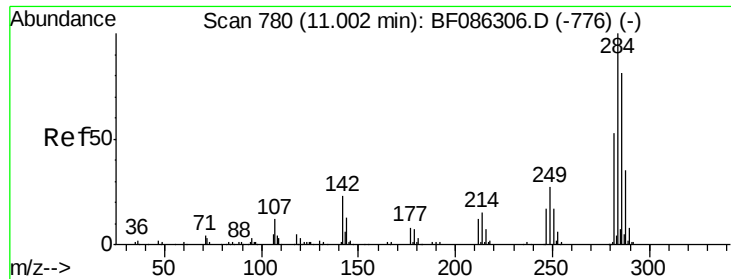
sohil
4/21/2016 7:10:34 PM



#66
4-Bromophenyl-phenylether
Concen: 18.96 ng
RT: 10.93 min Scan# 774
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
248	100	153213		
250	100.6	78.6	118.0	
141	74.8	57.9	86.9	





#67

Hexachlorobenzene

Concen: 18.78 ng

RT: 10.99 min Scan# 779

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

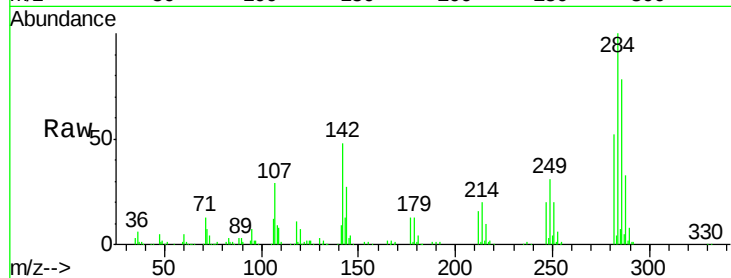
ClientSampleId :

LOQ-SOIL2016-02

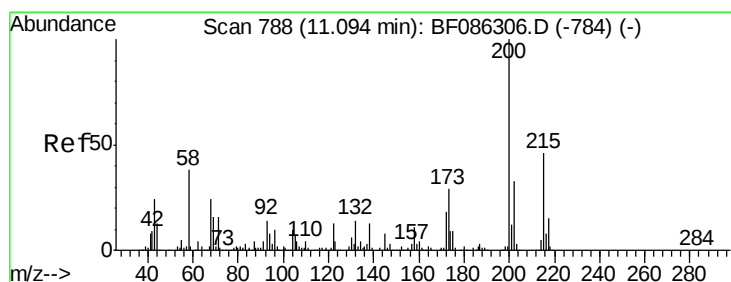
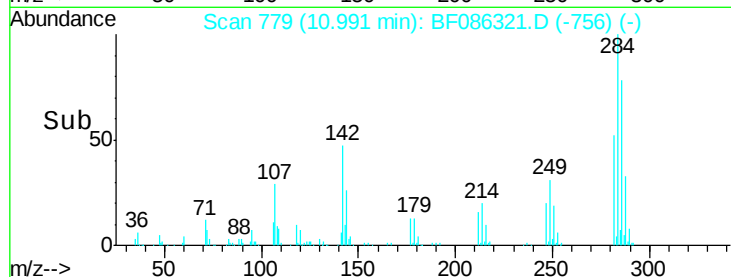
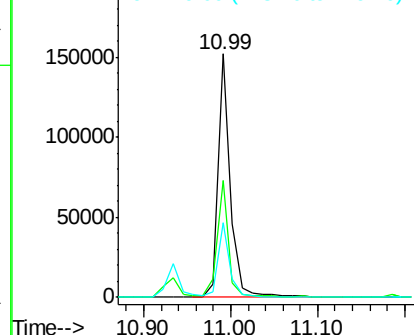
Tot Ion:	284	Resp:	152308
Ion Ratio	Lower	Upper	
284	100		
142	47.9	42.6	64.0
249	30.7	25.9	38.9

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 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: 19.04 ng

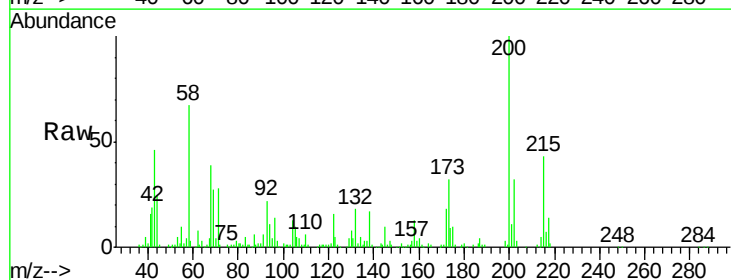
RT: 11.08 min Scan# 787

Delta R.T. -0.03 min

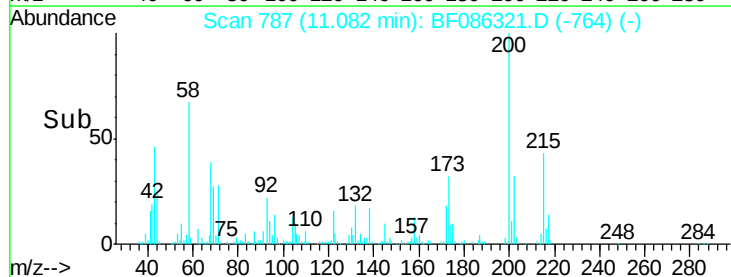
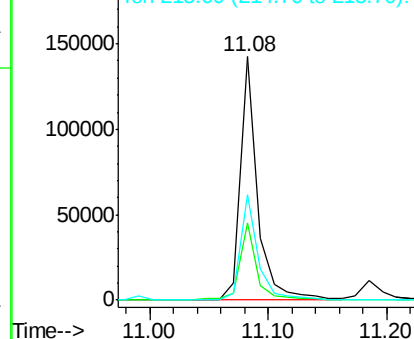
Lab File: BF086321.D

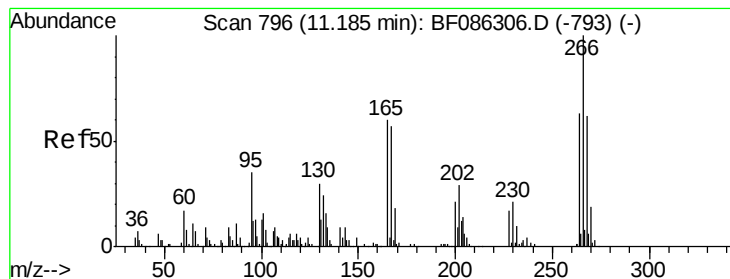
Acq: 20 Apr 2016 21:10

Tgt Ion:	200	Resp:	144985
Ion Ratio	Lower	Upper	
200	100		
173	31.8	11.2	51.2
215	43.2	24.0	64.0



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: 17.77 ng

RT: 11.18 min Scan# 796

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

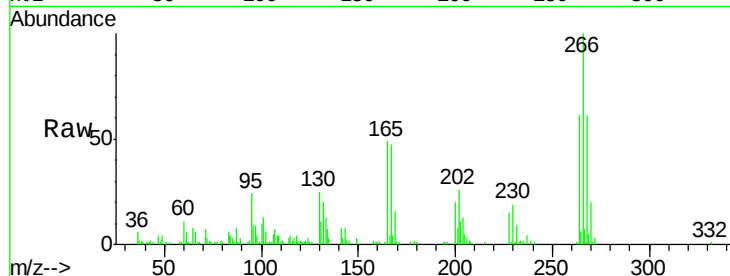
ClientSampleId :

LOQ-SOIL2016-02

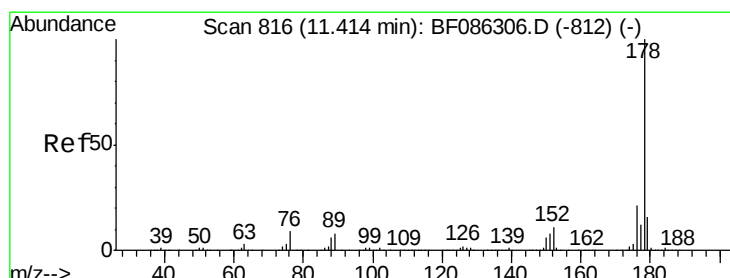
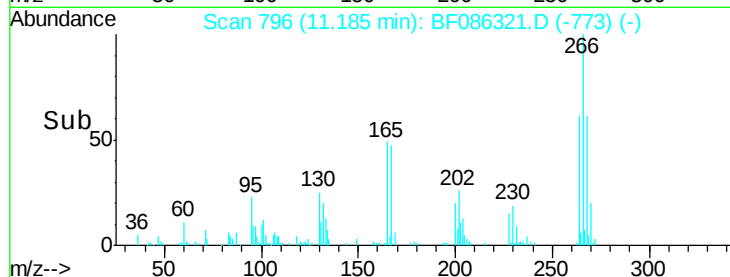
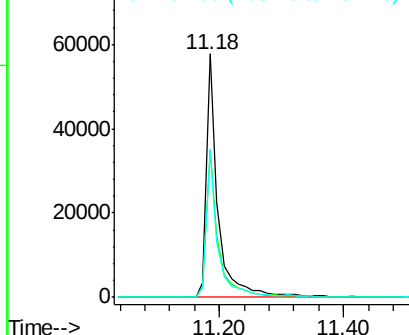
Tot Ion:	266	Resp:	75515
Ion Ratio	Lower	Upper	
266	100		
268	60.8	53.0	79.4
264	60.8	51.3	76.9

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



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



#70

Phenanthrene

Concen: 20.50 ng

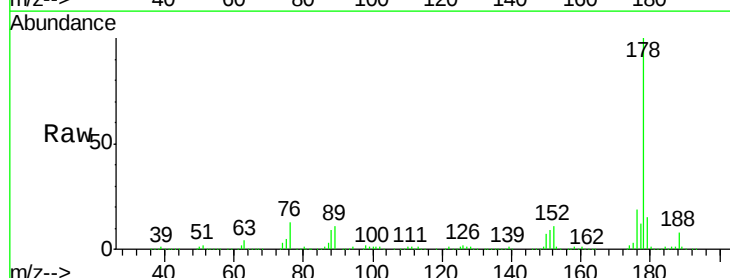
RT: 11.40 min Scan# 815

Delta R.T. -0.03 min

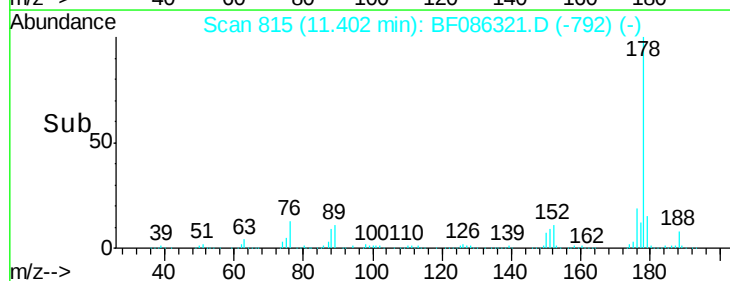
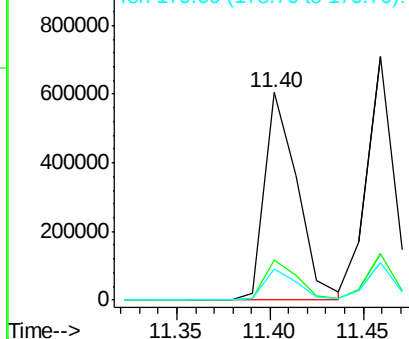
Lab File: BF086321.D

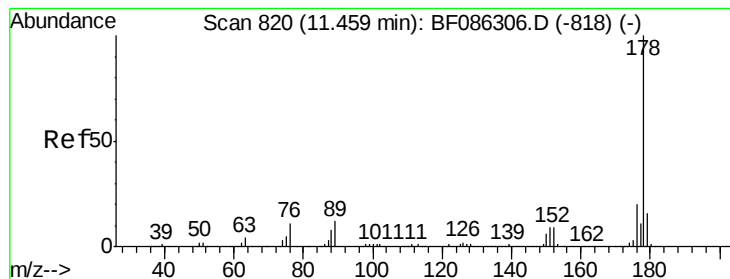
Acq: 20 Apr 2016 21:10

Tgt Ion:	178	Resp:	730613
Ion Ratio	Lower	Upper	
178	100		
176	19.3	16.3	24.5
179	15.3	13.0	19.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 20.91 ng

RT: 11.46 min Scan# 820

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:178 Resp: 797983

Ion Ratio Lower Upper

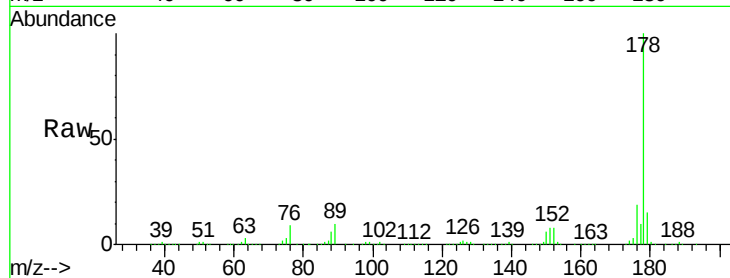
178 100

176 19.3 16.2 24.4

179 15.3 13.2 19.8

Manual Integrations
APPROVED

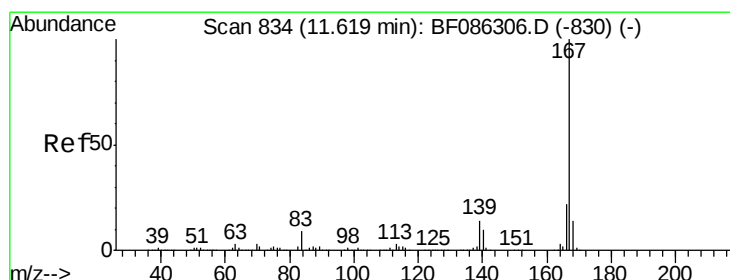
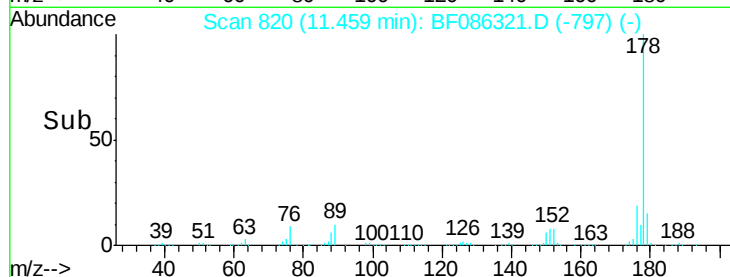
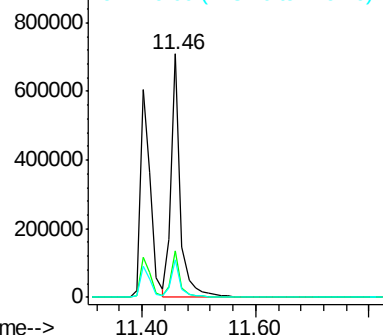
sohil
4/21/2016 7:10:34 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Carbazole

Concen: 19.86 ng

RT: 11.61 min Scan# 833

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

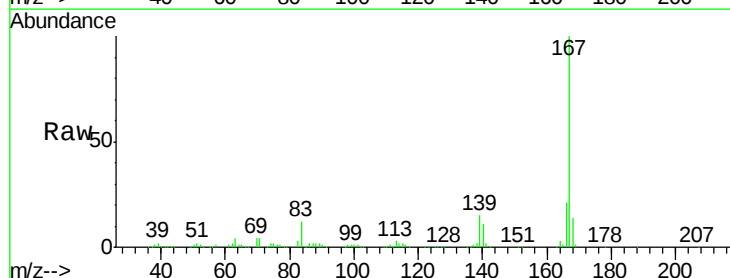
Tgt Ion:167 Resp: 717337

Ion Ratio Lower Upper

167 100

166 21.1 18.3 27.5

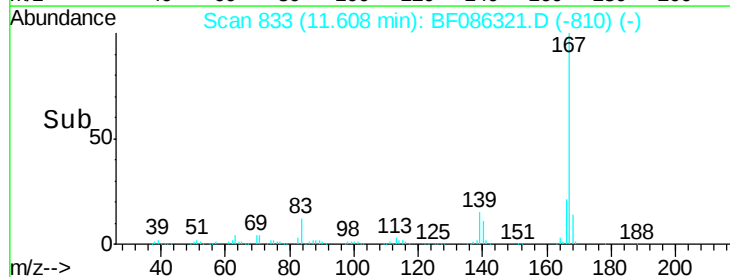
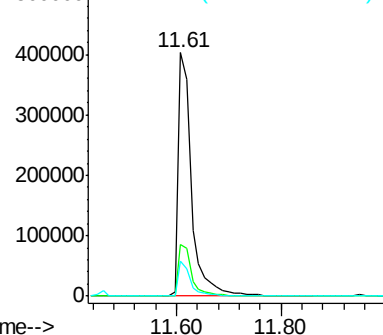
139 14.6 12.3 18.5

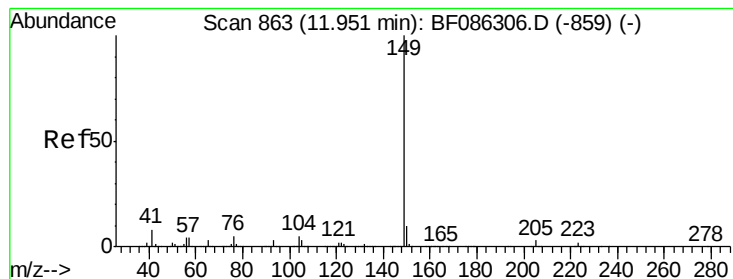


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





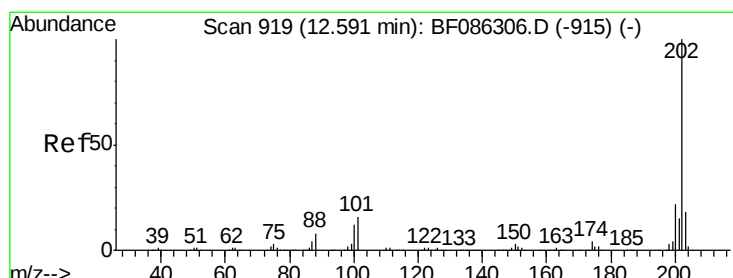
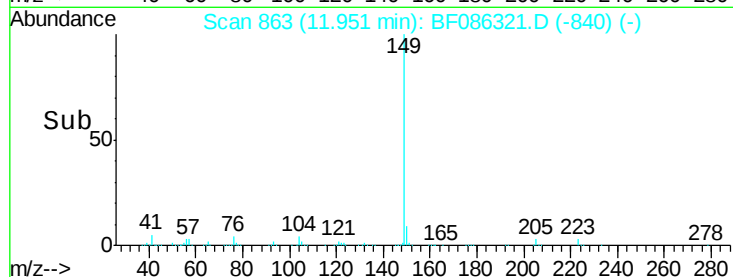
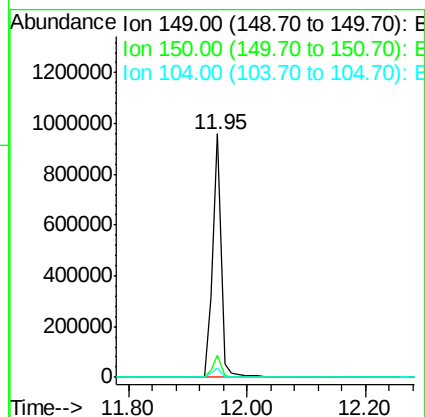
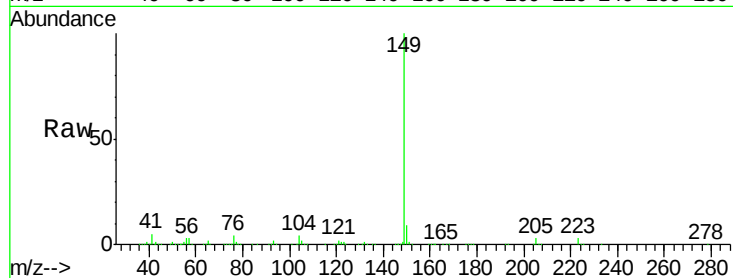
#73
Di-n-butylphthalate
Concen: 20.54 ng
RT: 11.95 min Scan# 863
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp Lower	Upper
149	100		
150	8.9	7.8	11.8
104	4.1	4.1	6.1

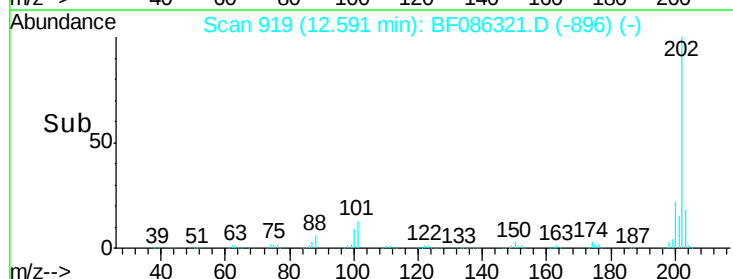
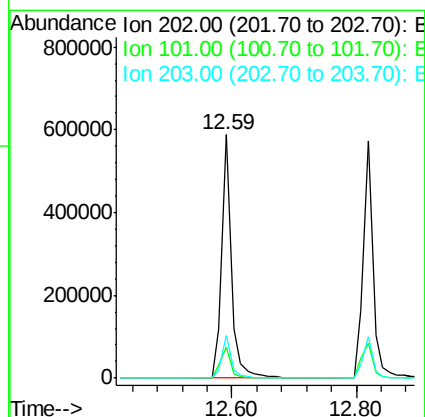
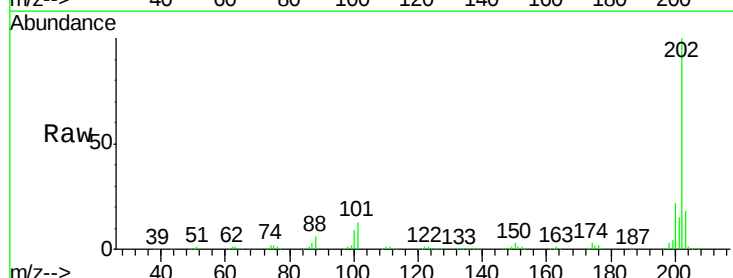
Manual Integrations
APPROVED

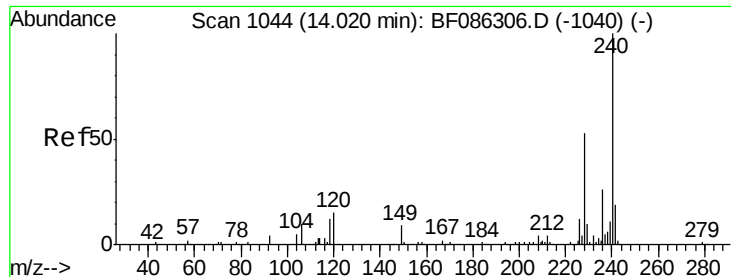
sohil
4/21/2016 7:10:34 PM



#74
Fluoranthene
Concen: 19.04 ng
RT: 12.59 min Scan# 919
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
101	12.8	0.0	35.2
203	17.6	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 1044

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

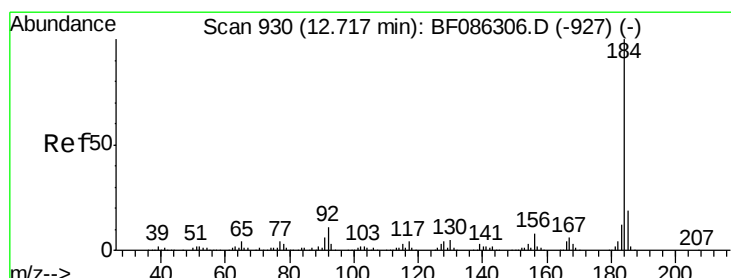
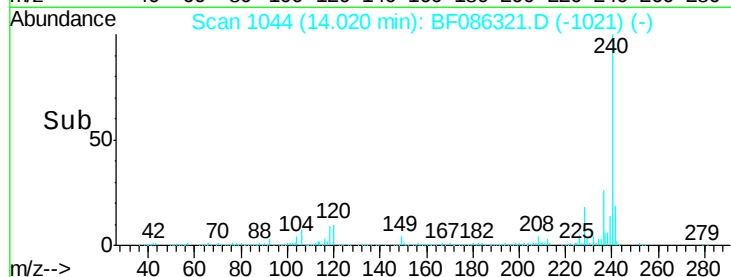
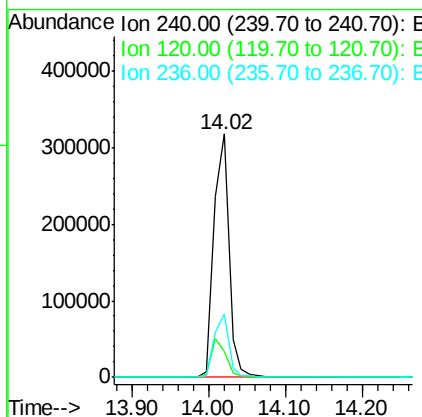
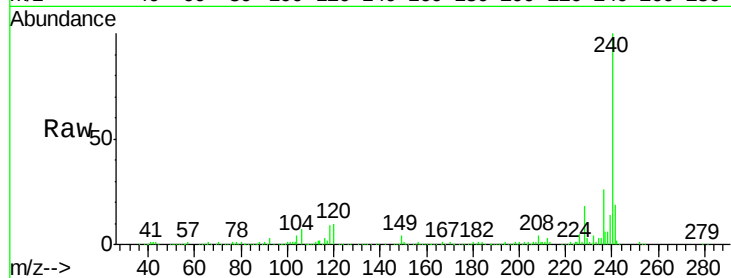
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	240	Resp:	434691
Ion Ratio	Lower	Upper	
240	100		
120	10.5	9.3	13.9
236	25.9	21.1	31.7

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#76

Benzidine

Concen: 8.03 ng

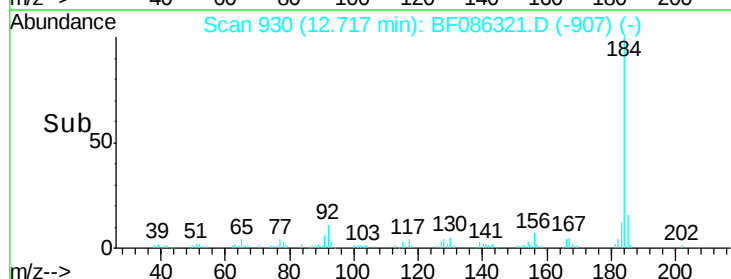
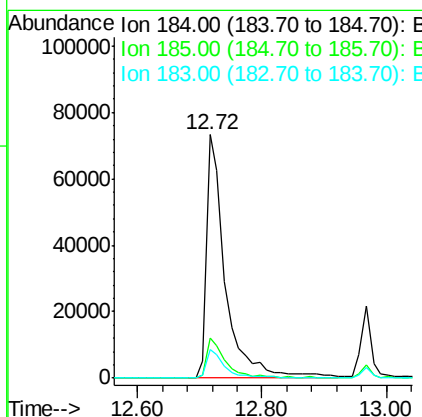
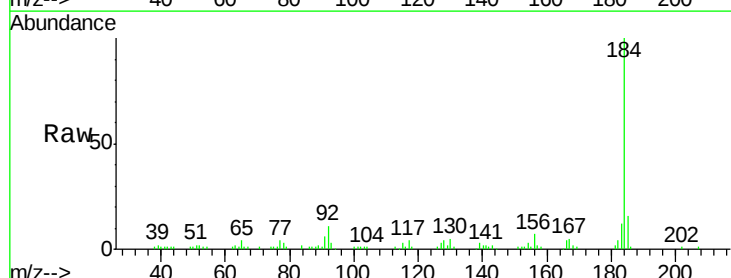
RT: 12.72 min Scan# 930

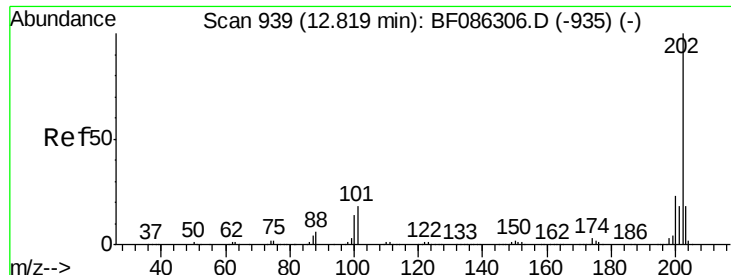
Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	184	Resp:	154191
Ion Ratio	Lower	Upper	
184	100		
185	16.2	14.2	21.2
183	11.7	9.8	14.6





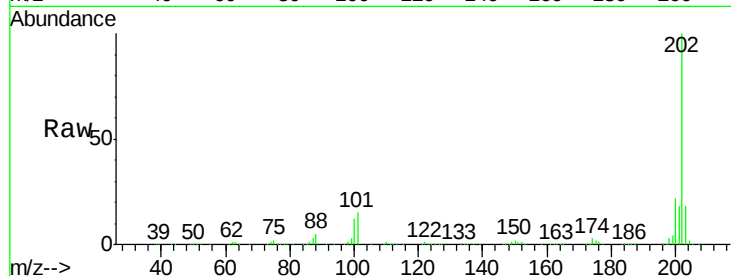
#77
Pvrene
Concen: 19.21 ng
RT: 12.82 min Scan# 939
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

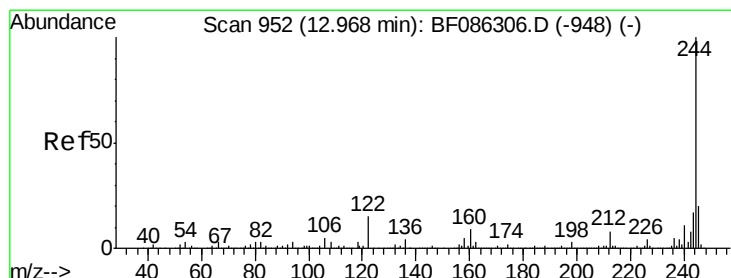
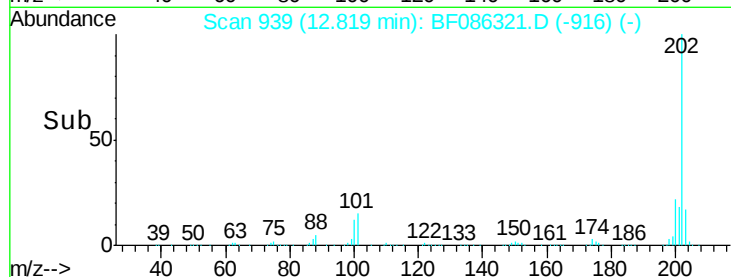
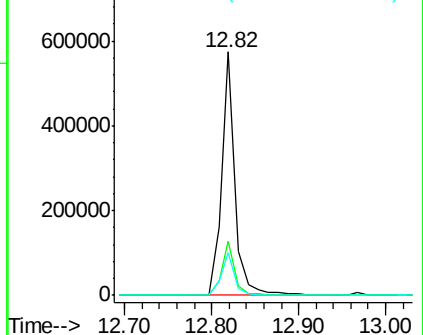
Tot Ion	Ratio	Resp	Lower	Upper
202	100	619378		
200	22.1		18.3	27.5
203	17.6		14.9	22.3

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM

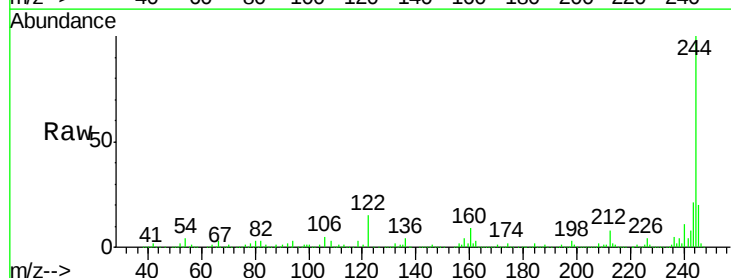


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

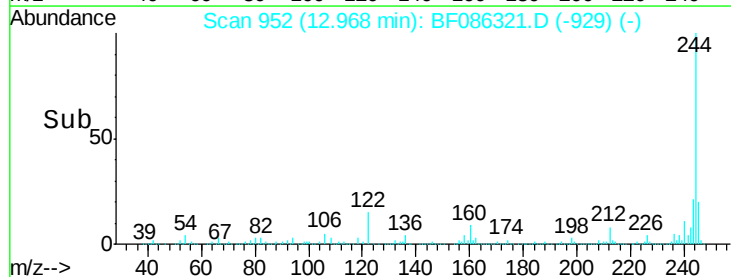
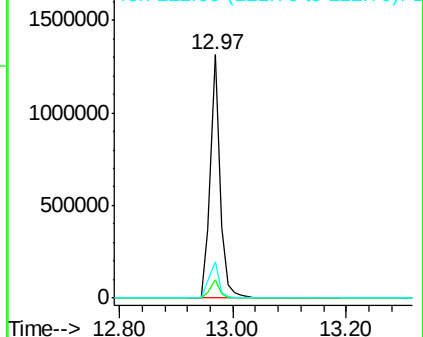


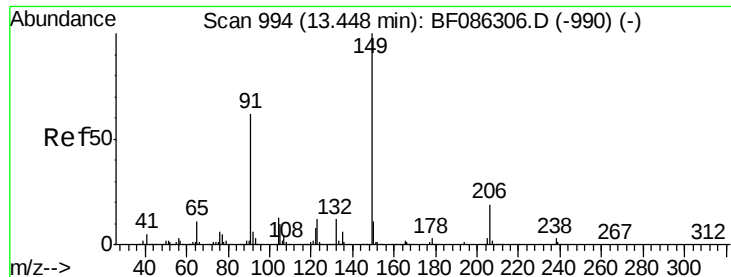
#78
Terphenyl-d14
Concen: 82.74 ng
RT: 12.97 min Scan# 952
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	1510927		
212	7.6		6.4	9.6
122	14.9		11.7	17.5



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





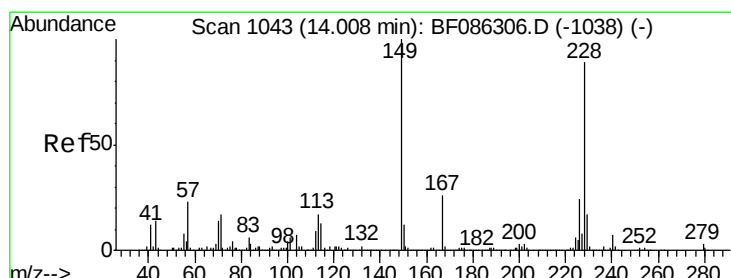
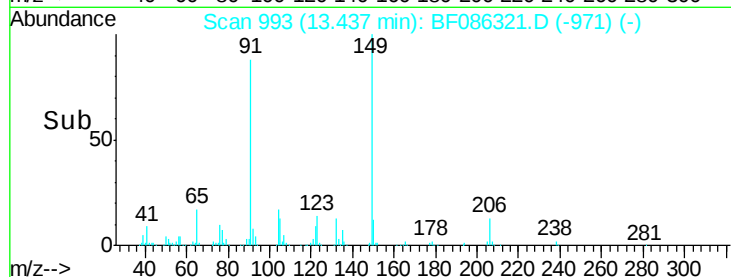
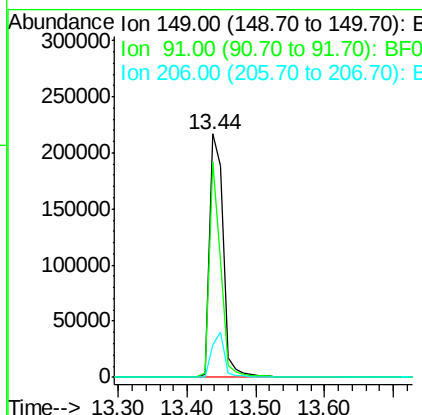
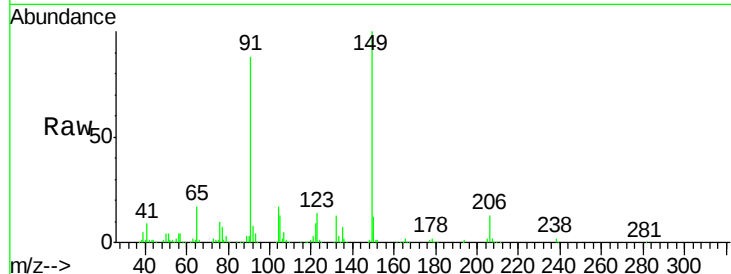
#79
Butylbenzylphthalate
Concen: 17.96 ng
RT: 13.44 min Scan# 993
Delta R.T. -0.05 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
149	100	305716		
91	88.4	48.7	73.1#	
206	13.1	15.7	23.5#	

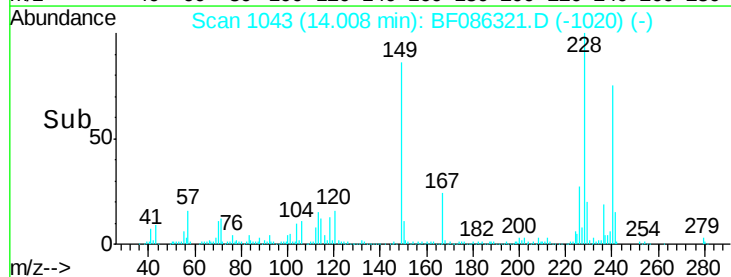
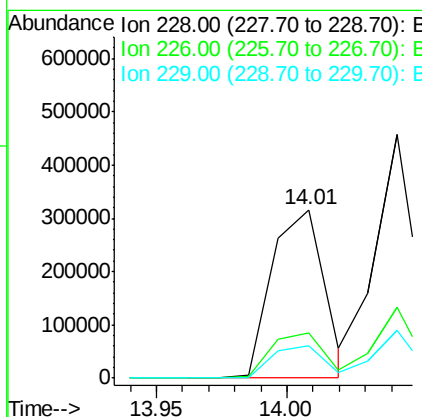
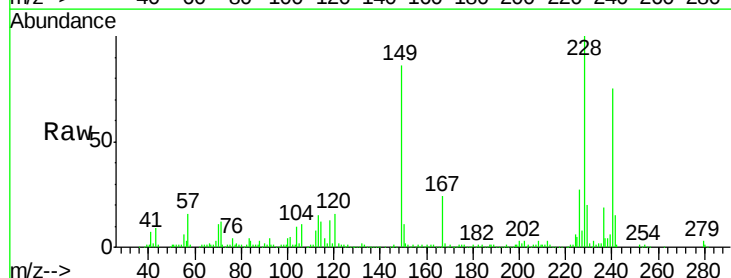
Manual Integrations
APPROVED

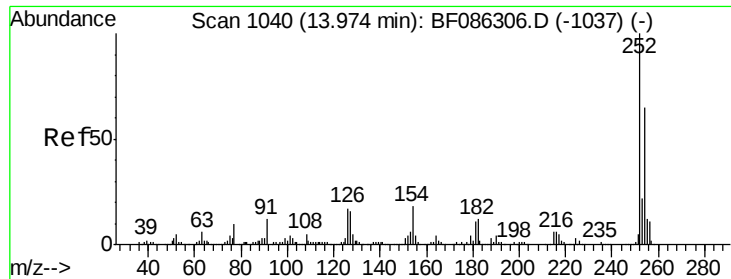
sohil
4/21/2016 7:10:34 PM



#80
Benzo(a)anthracene
Concen: 19.21 ng
RT: 14.01 min Scan# 1043
Delta R.T. -0.03 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	439955		
226	26.6	22.5	33.7	
229	19.6	16.2	24.2	





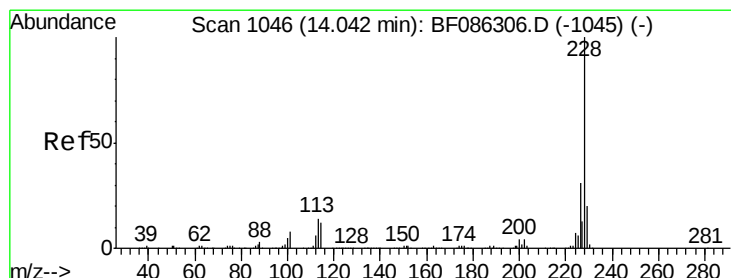
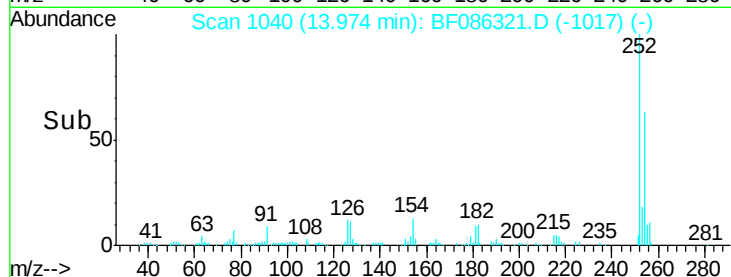
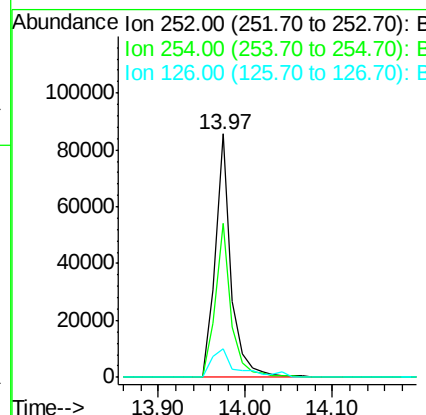
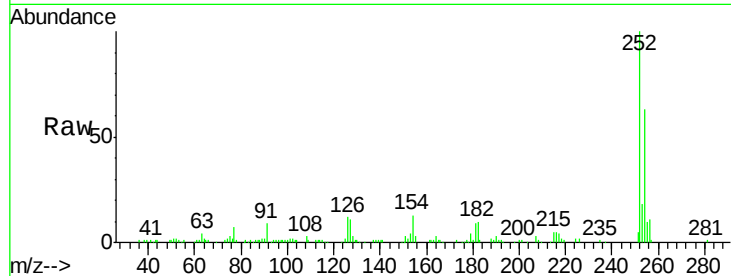
#81
 3,3'-Dichlorobenzidine
 Concen: 6.92 ng
 RT: 13.97 min Scan# 1040
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL2016-02

Tot Ion	Ratio	Resp Lower	Upper
252	100		
254	63.1	52.1	78.1
126	11.9	13.2	19.8

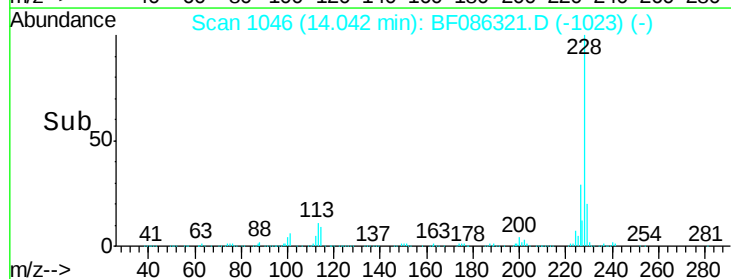
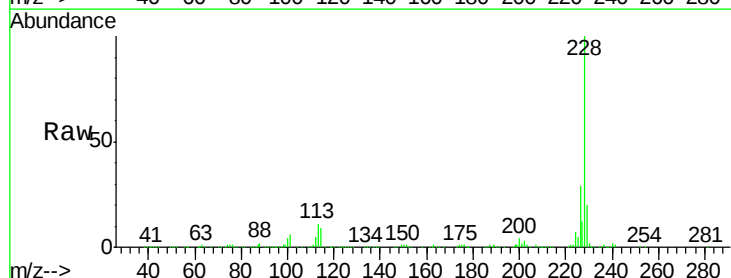
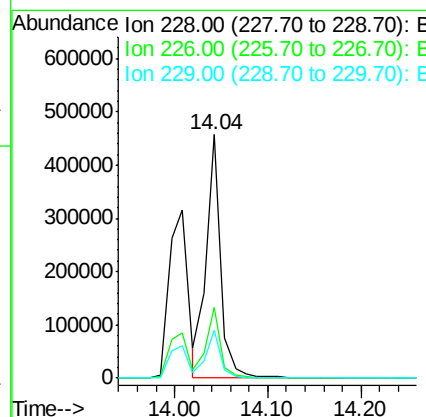
Manual Integrations
 APPROVED

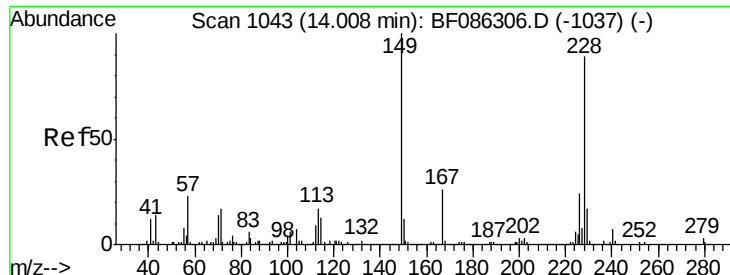
sohil
 4/21/2016 7:10:34 PM



#82
 Chrysene
 Concen: 20.14 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.03 min
 Lab File: BF086321.D
 Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
226	29.0	25.4	38.2
229	19.5	16.5	24.7





#83

Bis(2-ethylhexyl)phthalate

Concen: 18.74 ng

RT: 14.01 min Scan# 1043

Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

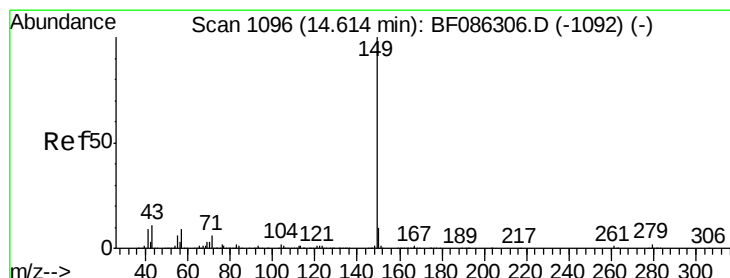
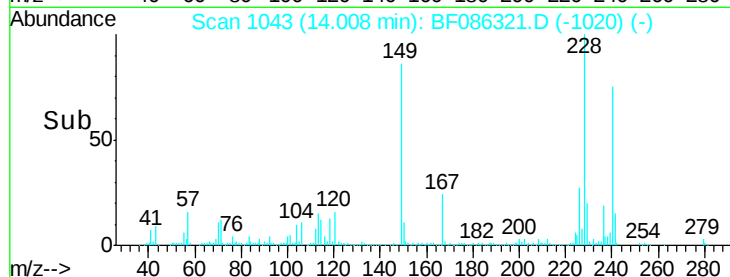
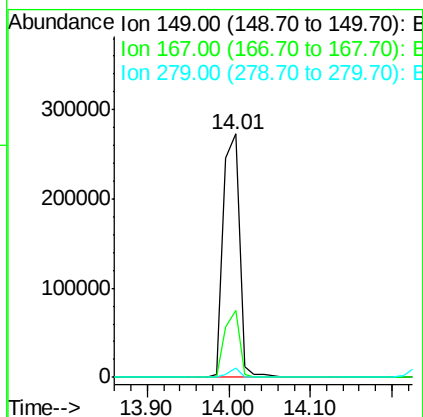
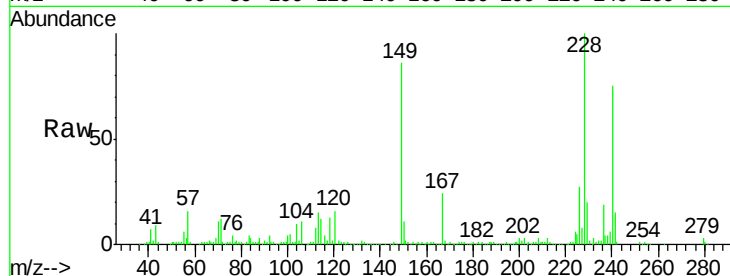
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	149	Resp:	373468
Ion Ratio	Lower	Upper	
149	100		
167	27.5	21.0	31.4
279	4.0	2.4	3.6#

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#84

Di-n-octyl phthalate

Concen: 18.53 ng

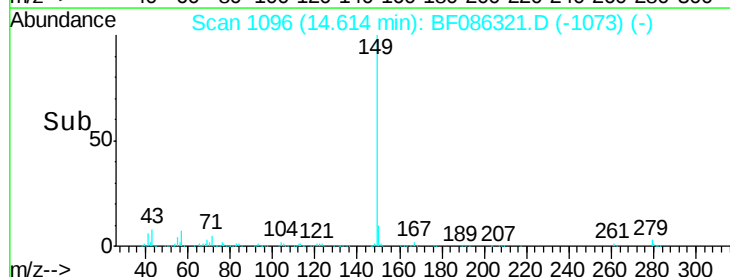
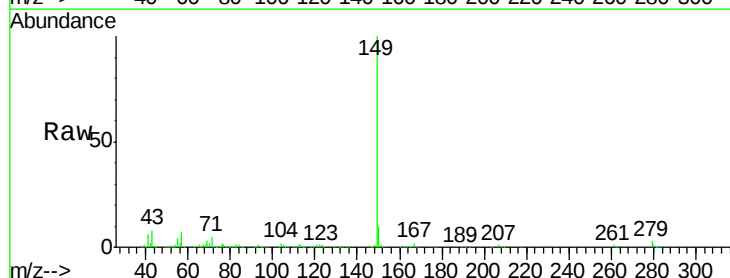
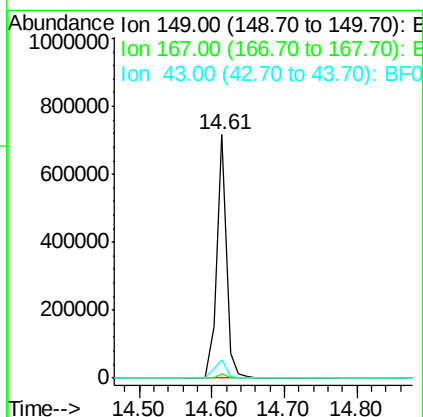
RT: 14.61 min Scan# 1096

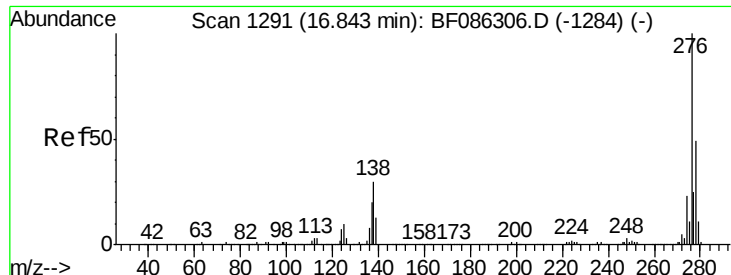
Delta R.T. -0.03 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	149	Resp:	665750
Ion Ratio	Lower	Upper	
149	100		
167	1.5	1.1	1.7
43	9.0	9.1	13.7#





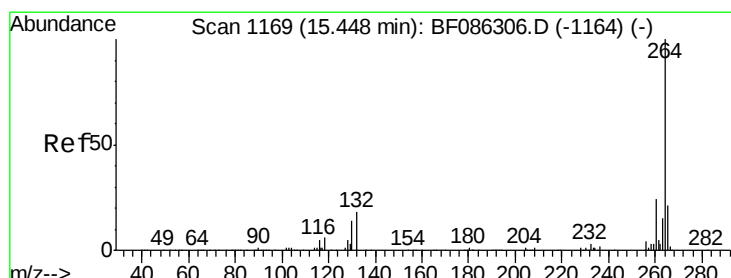
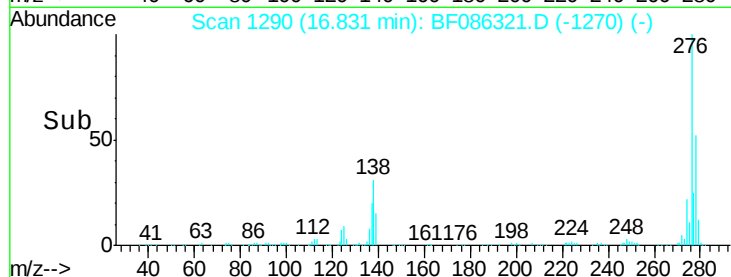
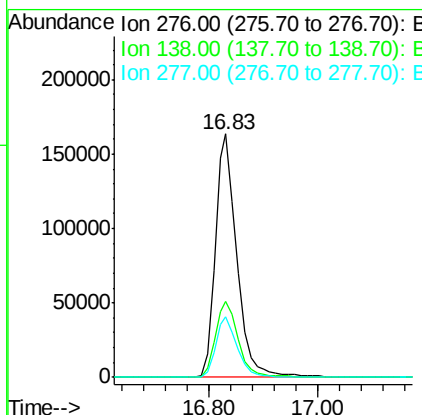
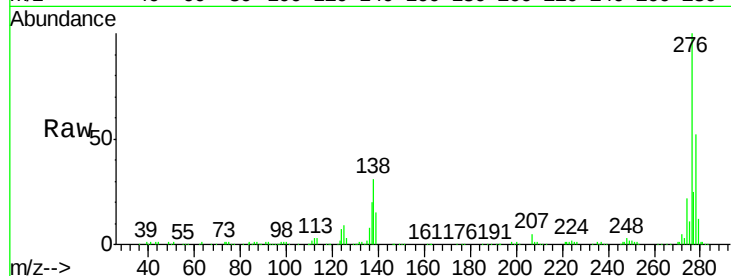
#85
Indeno(1,2,3-cd)pyrene
Concen: 17.85 ng
RT: 16.83 min Scan# 1290
Delta R.T. -0.07 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Resp	Lower	Upper
276	100	454358		
138	33.2	23.8	35.6	
277	25.0	20.2	30.2	

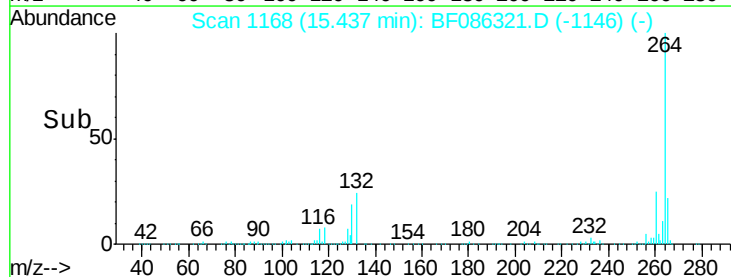
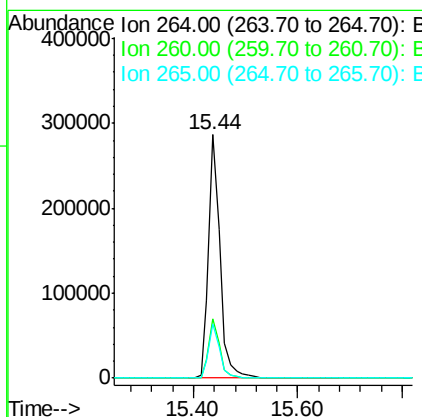
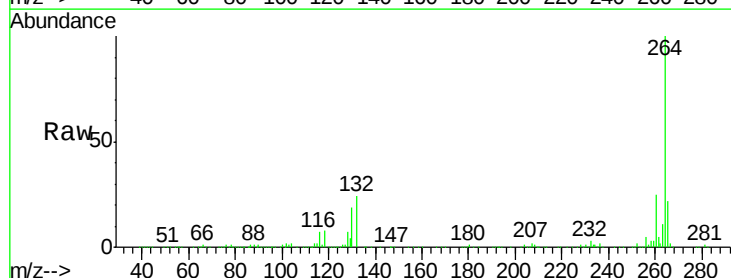
Manual Integrations
APPROVED

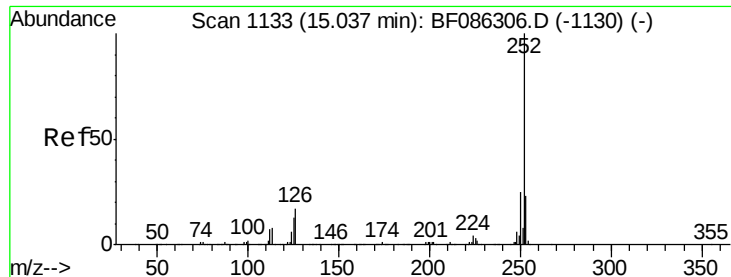
sohil
4/21/2016 7:10:34 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1168
Delta R.T. -0.05 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	436289		
260	24.6	20.0	30.0	
265	22.4	17.4	26.0	





#87

Benzo(b)fluoranthene

Concen: 16.71 ng m

RT: 15.03 min Scan# 1132

Delta R.T. -0.05 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

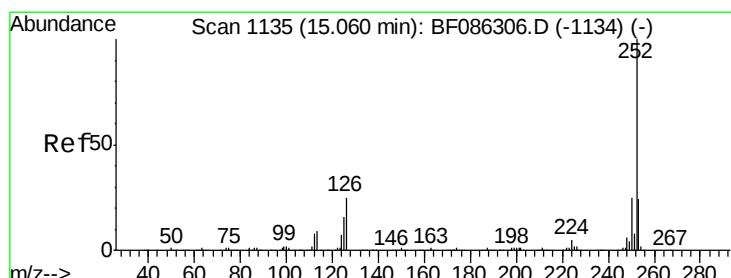
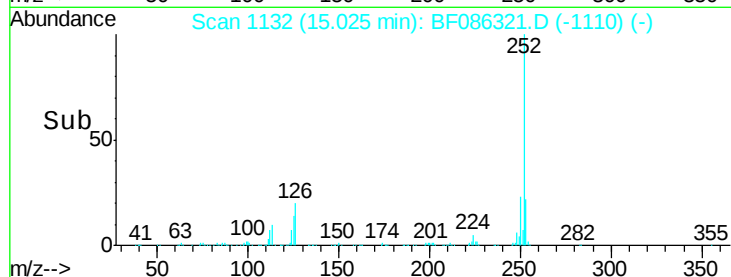
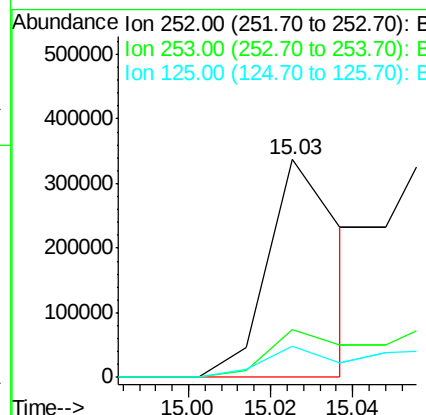
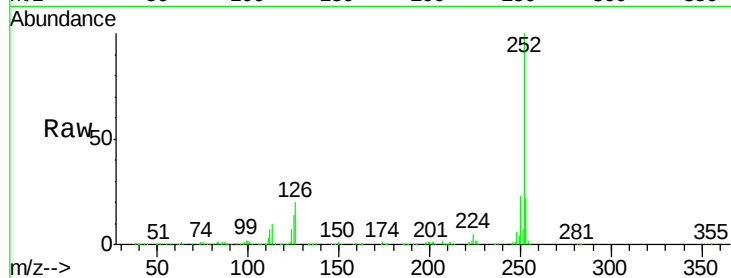
ClientSampleId :

LOQ-SOIL2016-02

Tot Ion:	252	Resp:	421696
Ion Ratio		Lower	Upper
252	100		
253	22.1	17.7	26.5
125	14.4	10.3	15.5

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM



#88

Benzo(k)fluoranthene

Concen: 24.56 ng m

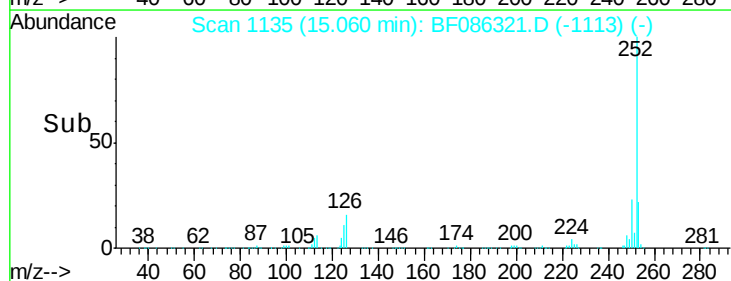
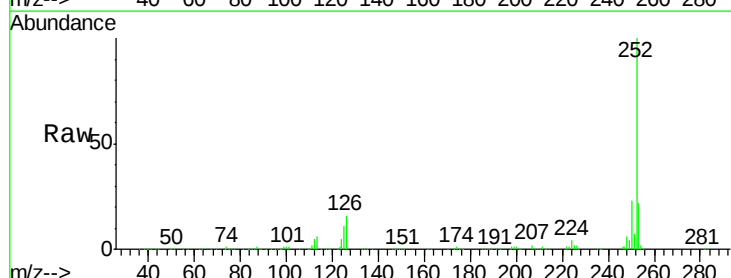
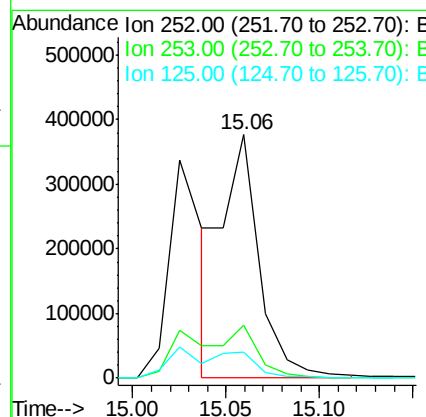
RT: 15.06 min Scan# 1135

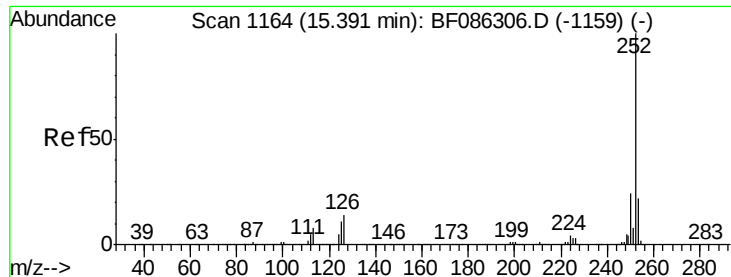
Delta R.T. -0.05 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Tgt Ion:	252	Resp:	521647
Ion Ratio		Lower	Upper
252	100		
253	22.0	17.5	26.3
125	10.9	7.8	11.6





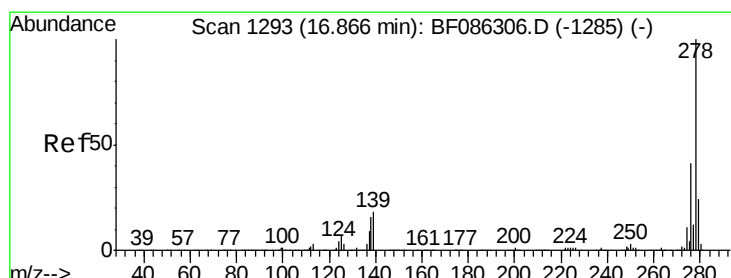
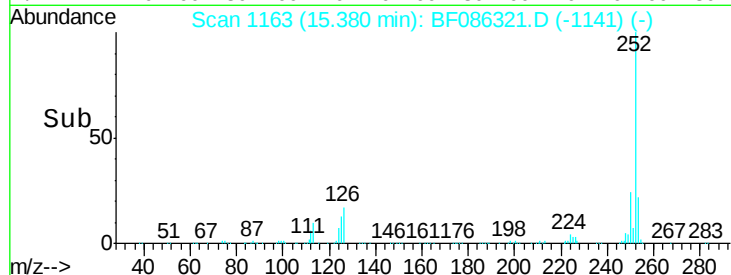
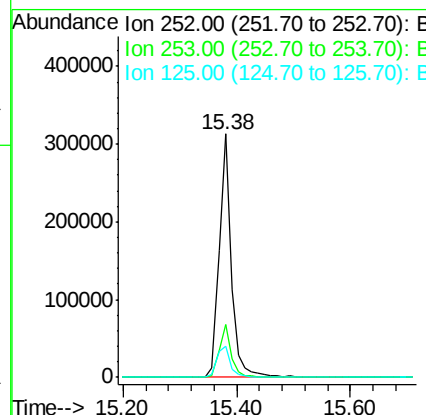
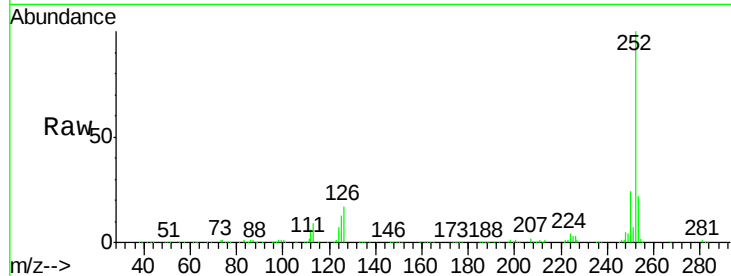
#89
Benzo(a)pyrene
Concen: 19.51 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.05 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL2016-02

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.8
125	13.0	11.2	16.8

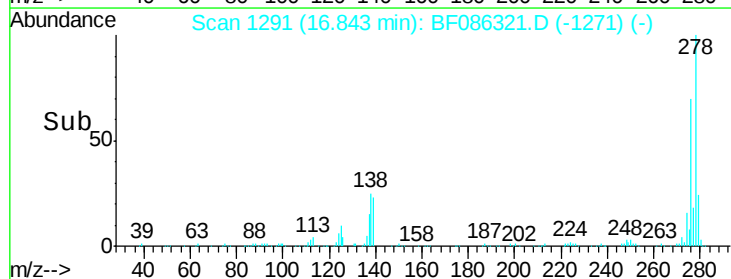
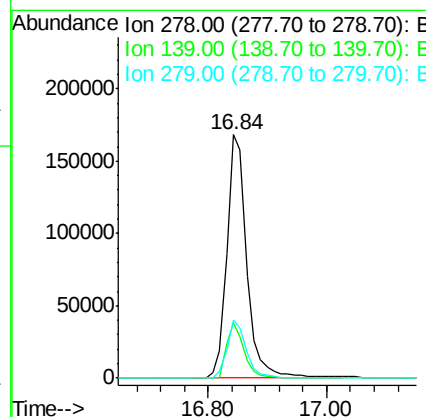
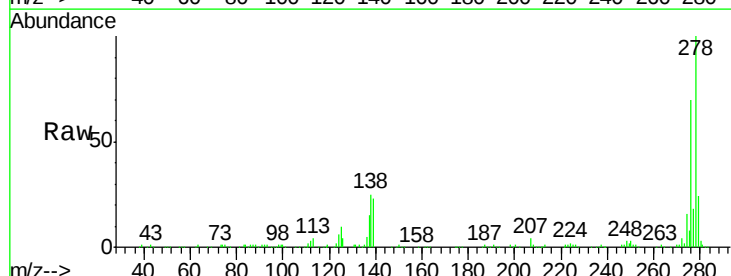
Manual Integrations
APPROVED

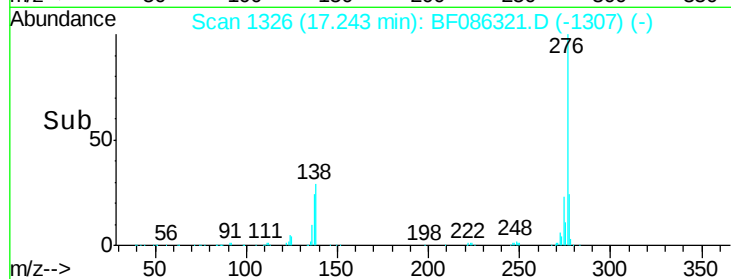
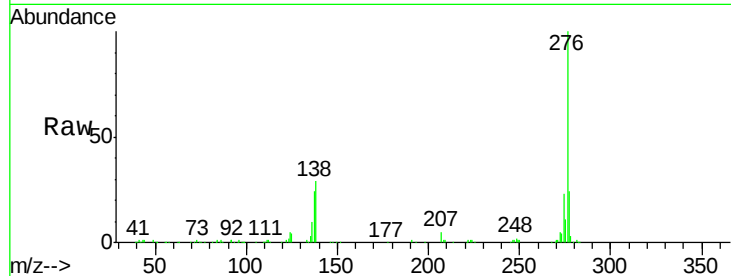
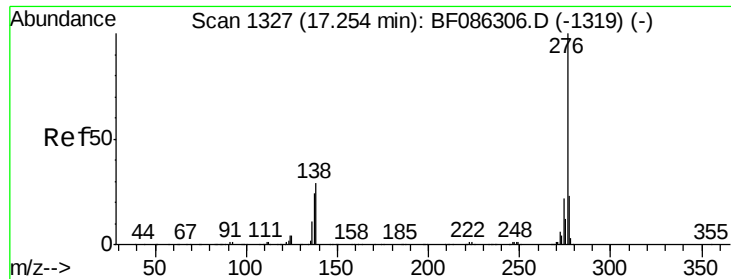
sohil
4/21/2016 7:10:34 PM



#90
Dibenzo(a,h)anthracene
Concen: 19.30 ng
RT: 16.84 min Scan# 1291
Delta R.T. -0.07 min
Lab File: BF086321.D
Acq: 20 Apr 2016 21:10

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.0	15.3	22.9#
279	23.7	19.1	28.7





#91

Benzo(a,h,i)perylene

Concen: 18.53 ng

RT: 17.24 min Scan# 1326

Delta R.T. -0.08 min

Lab File: BF086321.D

Acq: 20 Apr 2016 21:10

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL2016-02

Tot Ion: 276 Resp: 360678

Ion Ratio Lower Upper

276 100

277 24.4 19.0 28.6

138 28.9 19.6 29.4

Manual Integrations
APPROVED

sohil
4/21/2016 7:10:34 PM

