

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114655.D
 Acq On : 30 May 2019 12:35
 Operator : HP/JU
 Sample : K2241-02
 Misc : L00-SOIL-20PPM
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:46:59 AM

Quant Time: May 30 14:41:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 30 14:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	459299	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	1605218	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	799479	20.00	ng	0.00
64) Phenanthrene-d10	11.19	188	1480879	20.00	ng	0.00
76) Chrysene-d12	13.82	240	1045384	20.00	ng	0.00
87) Perylene-d12	15.20	264	1152126	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	5507218	210.52	ng	0.02
7) Phenol-d6	6.35	99	6587759	208.98	ng	0.02
23) Nitrobenzene-d5	7.27	82	4341736	168.75	ng	0.01
42) 2,4,6-Tribromophenol	10.52	330	1905715	250.17	ng	0.01
45) 2-Fluorobiphenyl	9.06	172	5922648	123.08	ng	0.01
79) Terphenyl-d14	12.79	244	6278203	112.92	ng	0.00

Target Compounds					Qvalue
2) 1,4-Dioxane	2.38	88	241586	19.244 ng	98
3) Pyridine	3.16	79	594049	16.259 ng	98
4) n-Nitrosodimethylamine	2.99	42	247791	16.760 ng	97
6) Aniline	6.38	93	785616	16.499 ng	97
8) 2-Chlorophenol	6.49	128	520734	17.236 ng	94
9) Benzaldehyde	6.25	77	464464	25.823 ng	99
10) Phenol	6.36	94	591134	15.523 ng	82
11) bis(2-Chloroethyl)ether	6.45	93	511961	17.576 ng	96
12) 1,3-Dichlorobenzene	6.64	146	640496	18.608 ng	99
13) 1,4-Dichlorobenzene	6.72	146	650643	18.843 ng	99
14) 1,2-Dichlorobenzene	6.87	146	552205	17.565 ng	97
15) Benzyl Alcohol	6.83	79	455712m	18.378 ng	
16) 2,2'-oxybis(1-Chloropropan	6.98	45	771596	17.270 ng	100
17) 2-Methylphenol	6.95	107	458951	17.961 ng	99
18) Hexachloroethane	7.21	117	232307	17.769 ng	97
19) n-Nitroso-di-n-propylamine	7.12	70	399210	18.346 ng	98
20) 3+4-Methylphenols	7.10	107	574996	19.133 ng	97
22) Acetophenone	7.10	105	775810	22.683 ng	# 99
24) Nitrobenzene	7.28	77	568728	20.809 ng	95
25) Isophorone	7.52	82	1035005	20.045 ng	100
26) 2-Nitrophenol	7.59	139	278509	20.934 ng	94
27) 2,4-Dimethylphenol	7.63	122	506983	22.914 ng	97
28) bis(2-Chloroethoxy)methane	7.73	93	672531	20.461 ng	99
29) 2,4-Dichlorophenol	7.83	162	478007	21.225 ng	98
30) 1,2,4-Trichlorobenzene	7.92	180	544832	21.234 ng	98
31) Naphthalene	8.00	128	1649622	22.311 ng	98
32) Benzoic acid	7.73	122	281895	19.615 ng	98
33) 4-Chloroaniline	8.04	127	710490	20.169 ng	99
34) Hexachlorobutadiene	8.13	225	294376	20.653 ng	99
35) Caprolactam	8.40	113	147029	19.345 ng	95
36) 4-Chloro-3-methylphenol	8.52	107	476414	21.094 ng	99
37) 2-Methylnaphthalene	8.69	142	1116090	22.719 ng	98
38) 1-Methylnaphthalene	8.78	142	1069389	22.975 ng	100
40) 1,2,4,5-Tetrachlorobenzene	8.85	216	485342	22.796 ng	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	8.85	237	323393	22.986	nq	98
43) 2,4,6-Trichlorophenol	8.96	196	340031	20.298	nq	98
44) 2,4,5-Trichlorophenol	8.99	196	358118	21.422	nq	98
46) 1,1'-Biphenyl	9.15	154	1330452	22.419	nq	96
47) 2-Chloronaphthalene	9.17	162	1057634	21.726	nq	98
48) 2-Nitroaniline	9.26	65	279270	18.590	nq	99
49) Acenaphthylene	9.58	152	1649466	21.932	nq	99
50) Dimethylphthalate	9.45	163	1165130	20.915	nq	100
51) 2,6-Dinitrotoluene	9.50	165	265733	20.528	nq	96
52) Acenaphthene	9.75	154	991426	21.495	nq	99
53) 3-Nitroaniline	9.66	138	299232	18.888	nq	99
54) 2,4-Dinitrophenol	9.77	184	87061	17.051	nq	94
55) Dibenzofuran	9.92	168	1438163	21.905	nq	98
56) 4-Nitrophenol	9.82	139	231141	19.687	nq	89
57) 2,4-Dinitrotoluene	9.90	165	336419	20.250	nq	97
58) Fluorene	10.26	166	1027206	23.172	nq	99
59) 2,3,4,6-Tetrachlorophenol	10.04	232	298090	21.785	nq	100
60) Diethylphthalate	10.15	149	1161718	20.418	nq	99
61) 4-Chlorophenyl-phenylether	10.26	204	511858	23.078	nq	95
62) 4-Nitroaniline	10.27	138	280282	18.155	nq	96
63) Azobenzene	10.42	77	1113678	21.319	nq	98
65) 4,6-Dinitro-2-methylphenol	10.30	198	131425	20.015	nq	99
66) n-Nitrosodiphenylamine	10.38	169	975642	22.299	nq	100
67) 4-Bromophenyl-phenylether	10.75	248	333639	21.009	nq	94
68) Hexachlorobenzene	10.81	284	360100	20.935	nq	98
69) Atrazine	10.90	200	296194	21.486	nq	98
70) Pentachlorophenol	11.00	266	196795	19.848	nq	99
71) Phenanthrene	11.22	178	1592298	21.078	nq	98
72) Anthracene	11.27	178	1667013	21.804	nq	98
73) Carbazole	11.42	167	1460018	21.728	nq	98
74) Di-n-butylphthalate	11.77	149	1775555	21.749	nq	97
75) Fluoranthene	12.40	202	1617373	20.677	nq	97
77) Benzidine	12.52	184	910835	21.159	nq	97
78) Pyrene	12.62	202	1645060	18.603	nq	98
80) Butylbenzylphthalate	13.25	149	744637	16.755	nq	97
81) Benzo(a)anthracene	13.80	228	1528070	19.021	nq	98
82) 3,3'-Dichlorobenzidine	13.77	252	579752	18.687	nq	100
83) Chrysene	13.84	228	1436199	18.712	nq	97
84) Bis(2-ethylhexyl)phthalate	13.82	149	1007250	18.332	nq	100
85) Di-n-octyl phthalate	14.43	149	1726625	18.087	nq	97
86) Indeno(1,2,3-cd)pyrene	16.52	276	1406715	18.299	nq	99
88) Benzo(b)fluoranthene	14.82	252	1494666	20.598	nq	97
89) Benzo(k)fluoranthene	14.84	252	1329905	21.086	nq	99
90) Benzo(a)pyrene	15.14	252	1372542	21.531	nq	100
91) Dibenzo(a,h)anthracene	16.53	278	1199225	21.289	nq	100
92) Benzo(g,h,i)perylene	16.91	276	1115506	20.403	nq	99

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

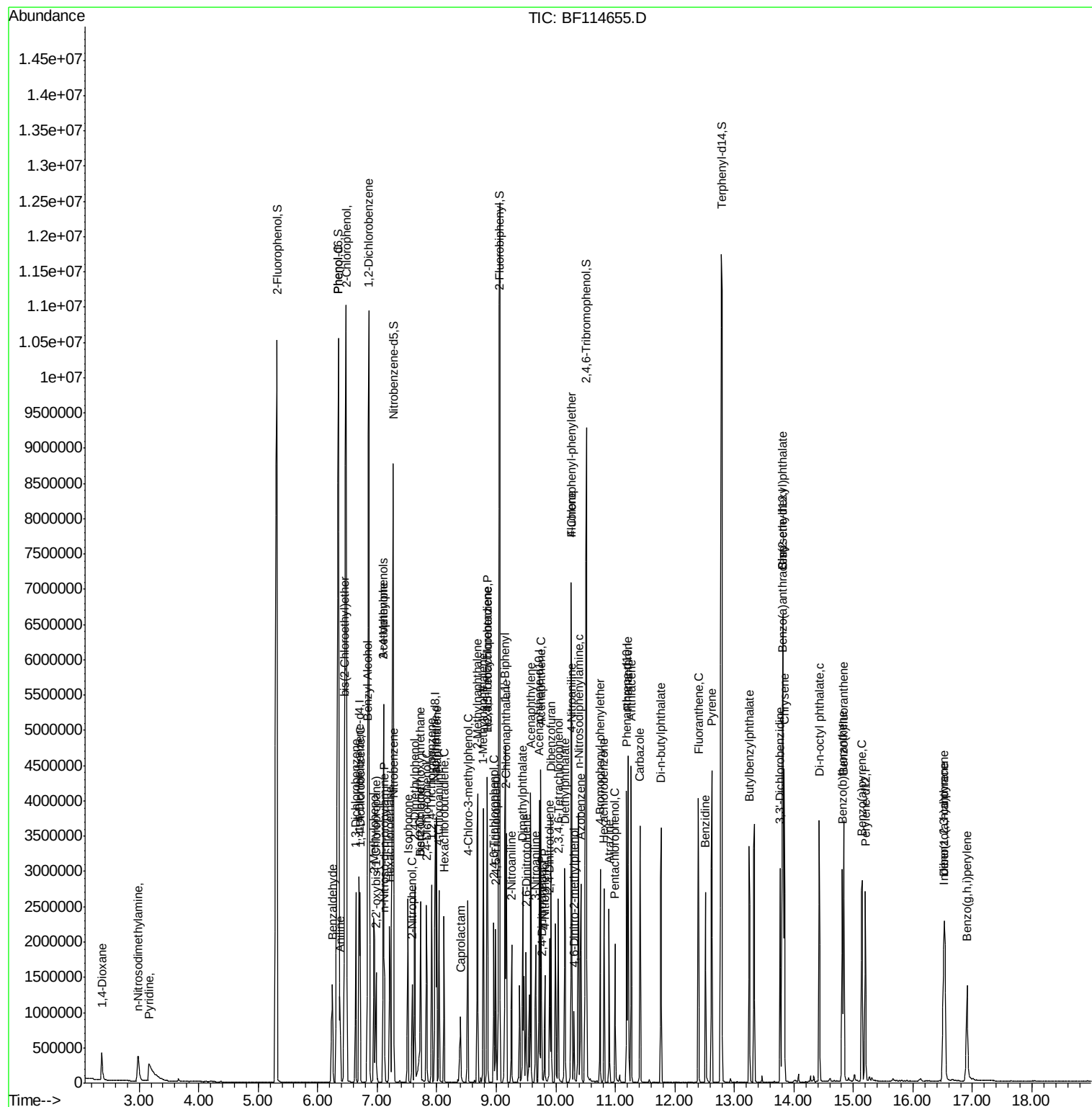
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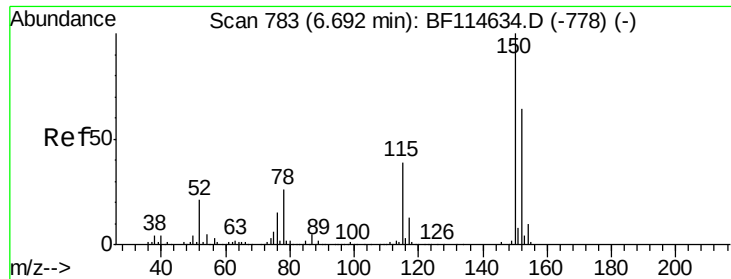
Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

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#1

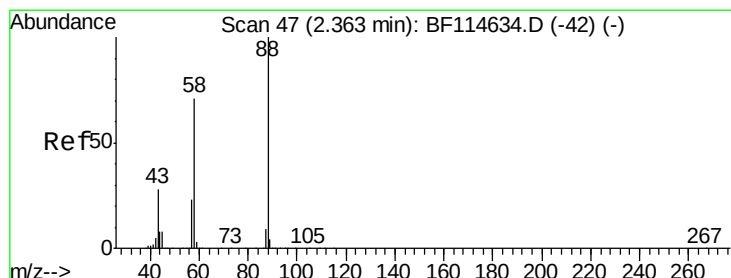
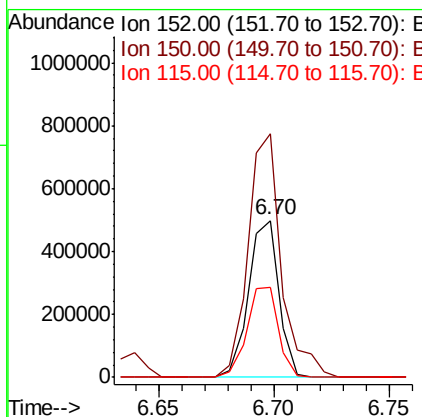
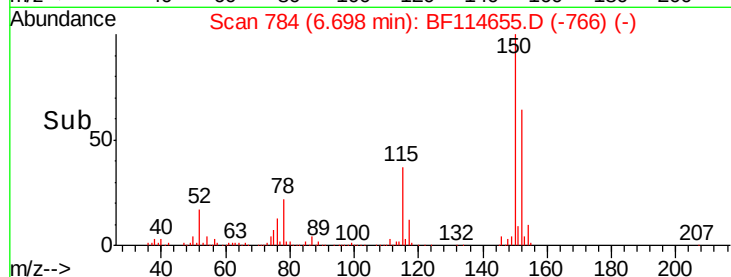
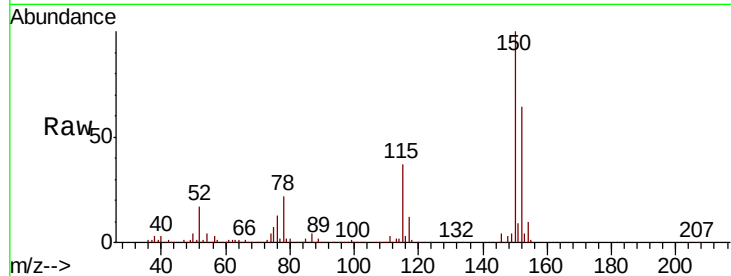
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.4	186.6
115	57.8	48.7	73.1

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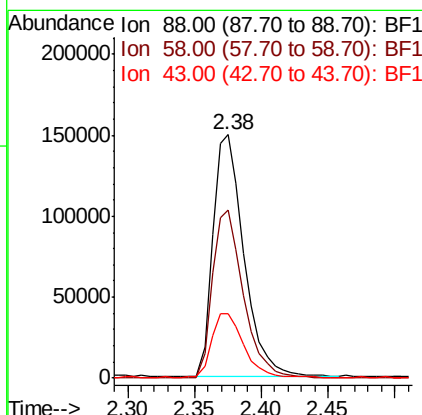
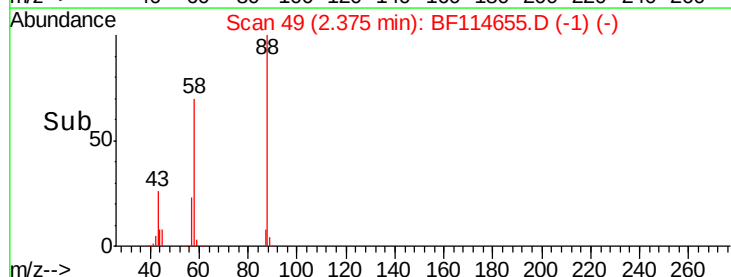
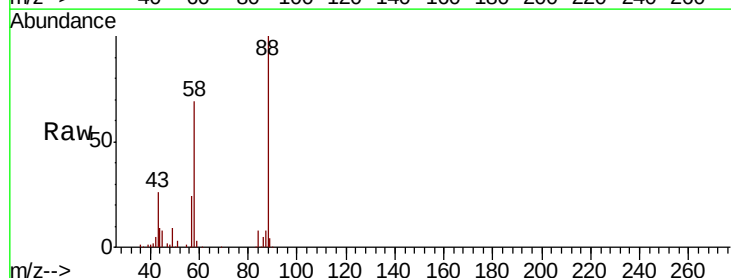
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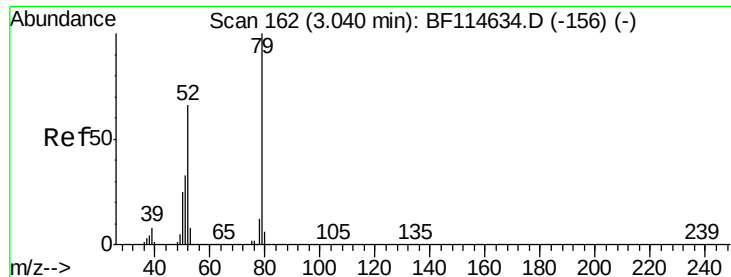


#2

1,4-Dioxane
Concen: 19.244 ng
RT: 2.38 min Scan# 49
Delta R.T. 0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
88	100		
58	69.8	57.2	85.8
43	27.6	22.6	33.8





#3

Pvridine

Concen: 16.259 ng

RT: 3.16 min Scan# 183

Delta R.T. 0.12 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

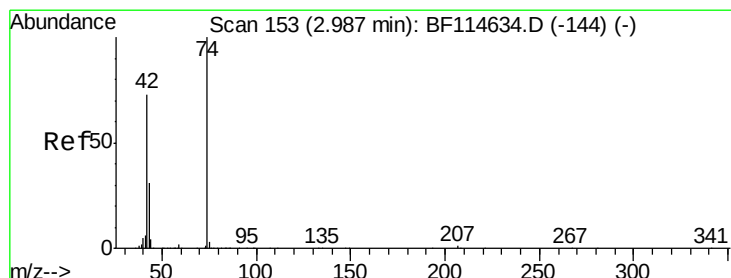
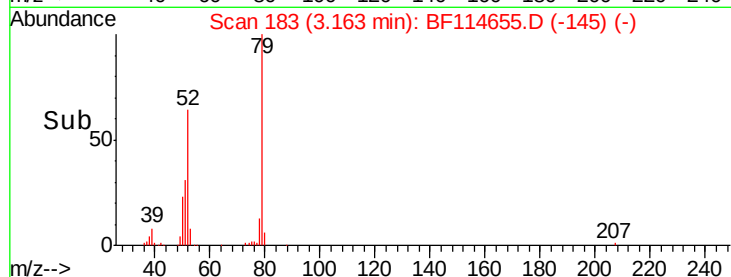
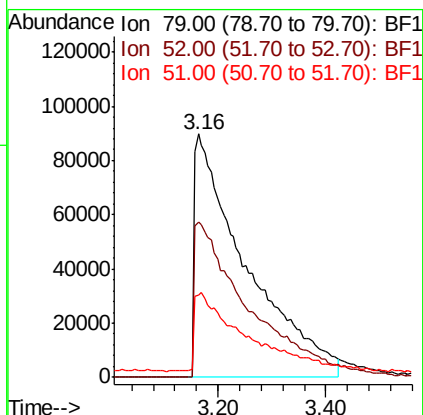
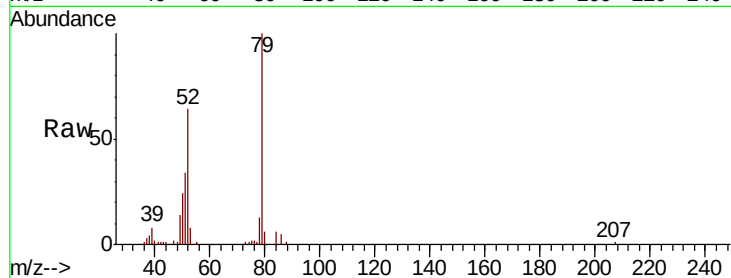
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	79	Resp:	594049
Ion	Ratio	Lower	Upper
79	100		
52	63.9	52.8	79.2
51	33.6	26.3	39.5

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#4

n-Nitrosodimethylamine

Concen: 16.760 ng

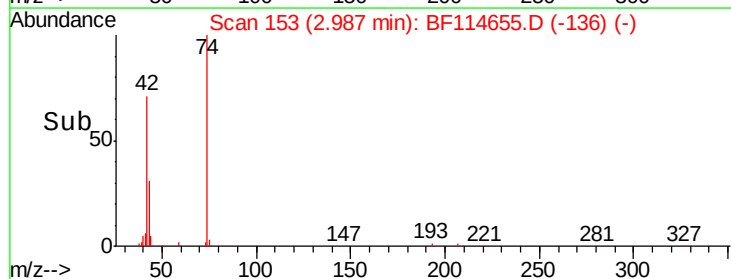
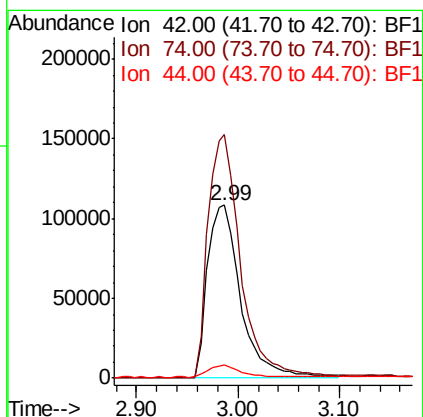
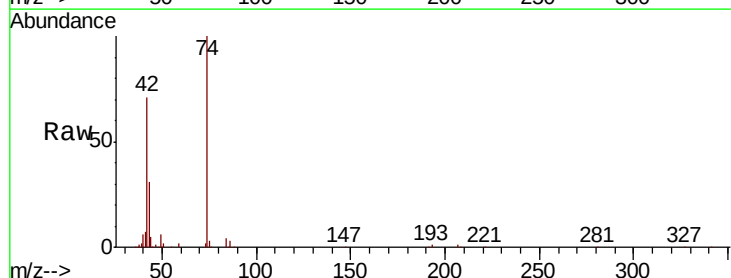
RT: 2.99 min Scan# 153

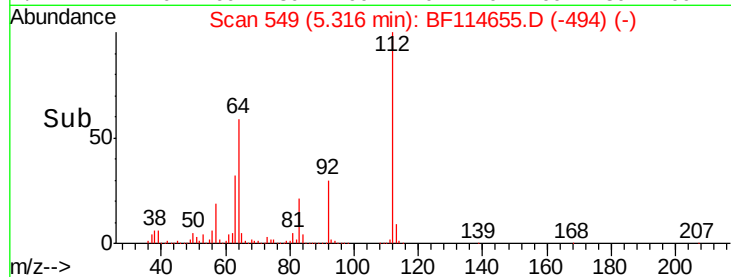
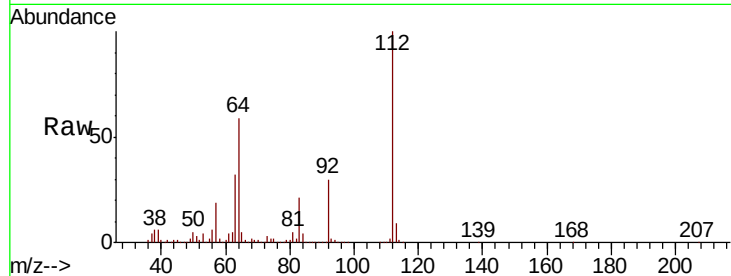
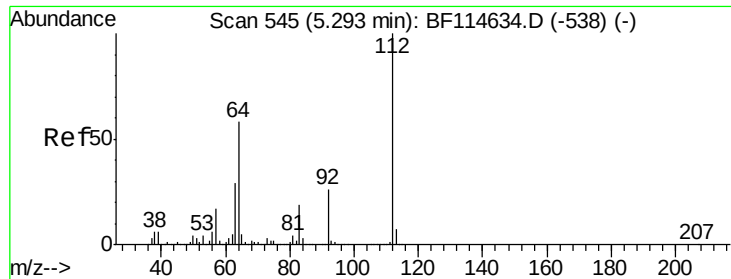
Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	42	Resp:	247791
Ion	Ratio	Lower	Upper
42	100		
74	140.7	110.0	165.0
44	7.3	5.6	8.4





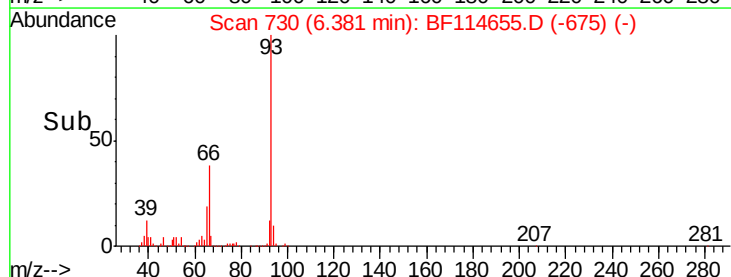
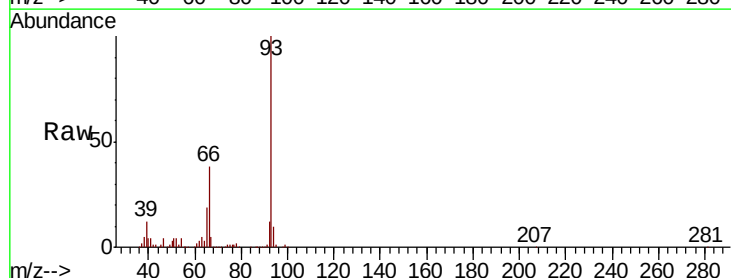
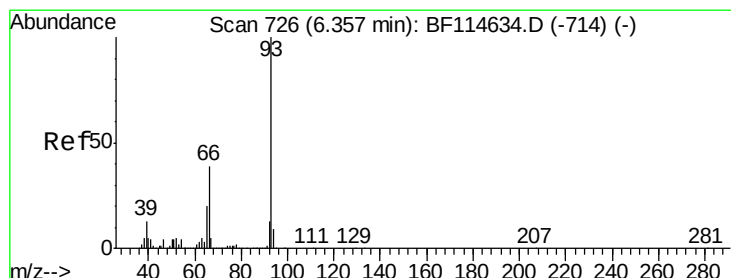
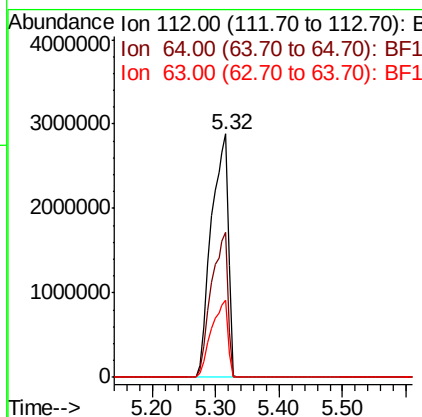
#5
2-Fluorophenol
Concen: 210.518 ng
RT: 5.32 min Scan# 549
Delta R.T. 0.02 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tot Ion	Ratio	Resp	Lower	Upper
112	100	5507218		
64	59.5		46.1	69.1
63	31.8		23.4	35.2

Instrument :
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ClientSampleId :
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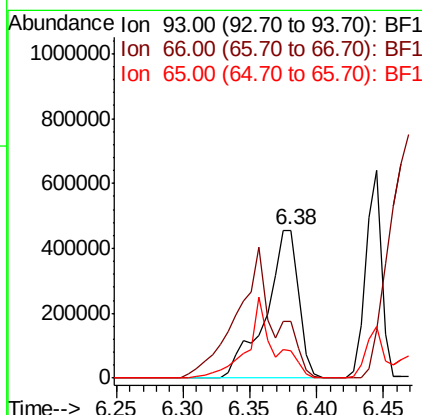
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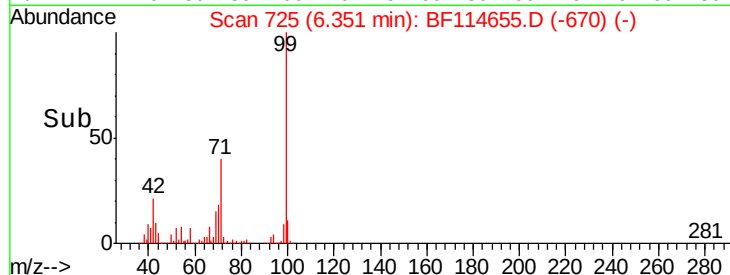
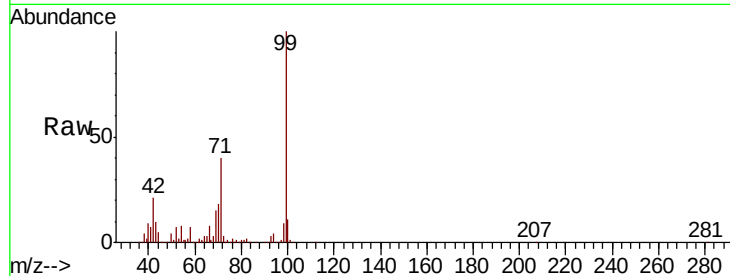
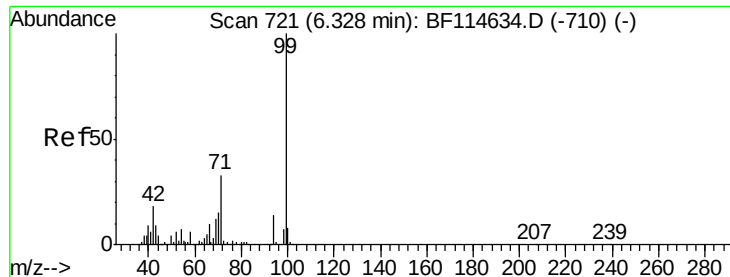
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#6
Aniline
Concen: 16.499 ng
RT: 6.38 min Scan# 730
Delta R.T. 0.02 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	785616		
66	38.1		31.4	47.2
65	18.6		16.2	24.2





#7

Phenol-d6

Concen: 208.975 ng

RT: 6.35 min Scan# 725

Delta R.T. 0.02 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tot Ion: 99 Resp: 6587759

Ion Ratio Lower Upper

99 100

42 20.9 14.7 22.1

71 39.7 26.6 40.0

Instrument :

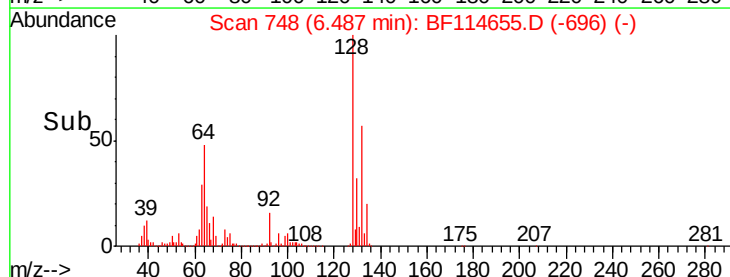
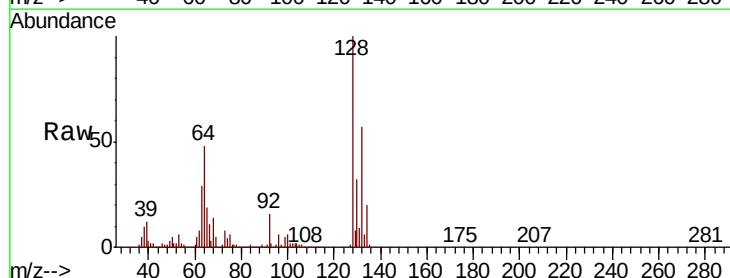
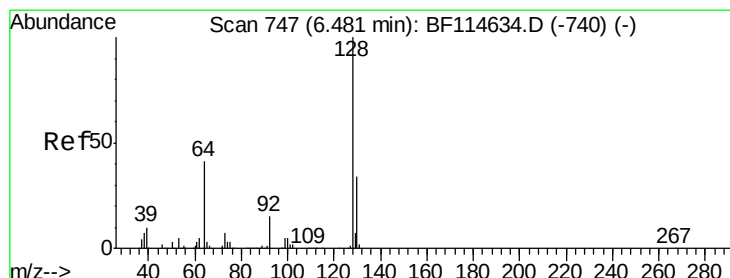
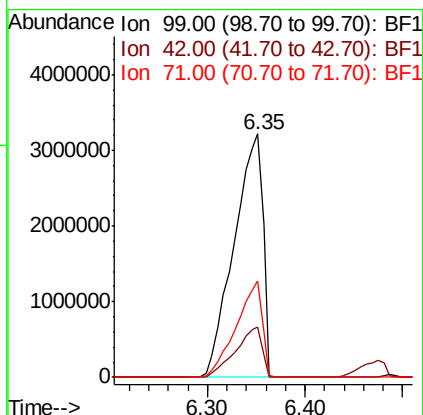
BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Manual Integrations
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#8

2-Chlorophenol

Concen: 17.236 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

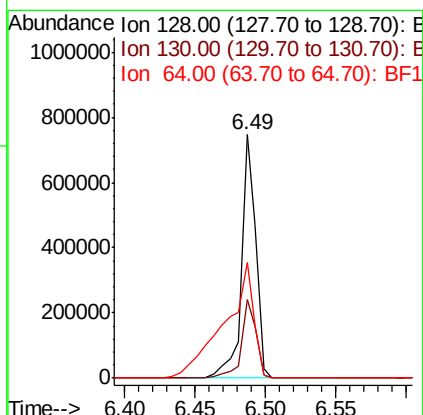
Tgt Ion: 128 Resp: 520734

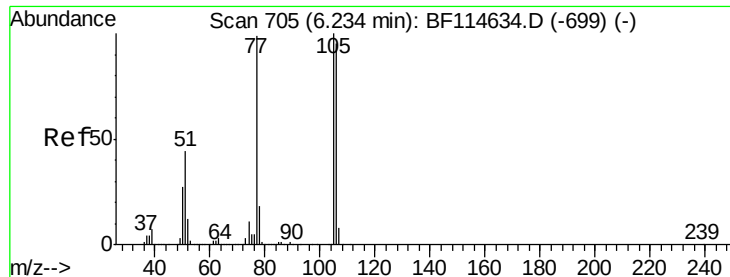
Ion Ratio Lower Upper

128 100

130 32.4 13.9 53.9

64 47.6 22.0 62.0





#9

Benzaldehyde

Concen: 25.823 ng

RT: 6.25 min Scan# 707

Delta R.T. 0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

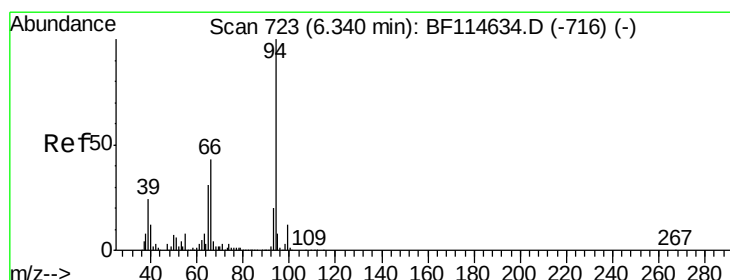
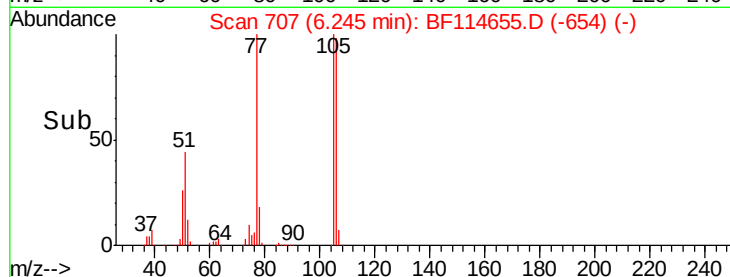
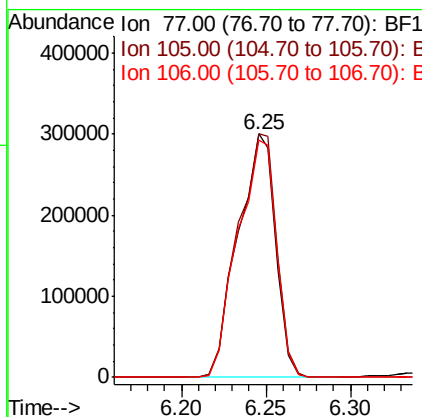
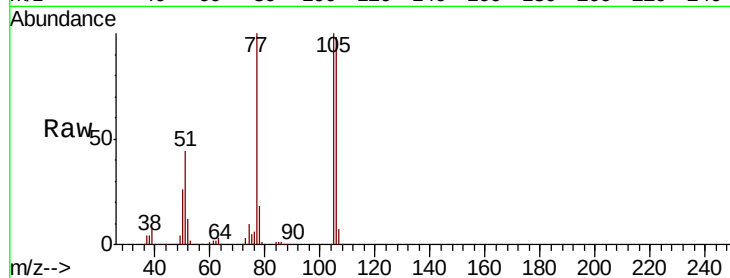
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	77	Resp:	464464
Ion	Ratio	Lower	Upper
77	100		
105	99.9	80.8	120.8
106	97.7	76.2	116.2

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#10

Phenol

Concen: 15.523 ng

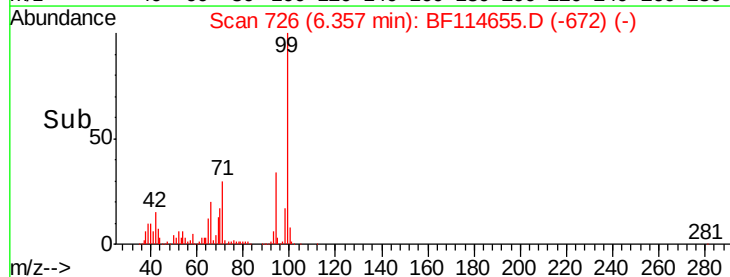
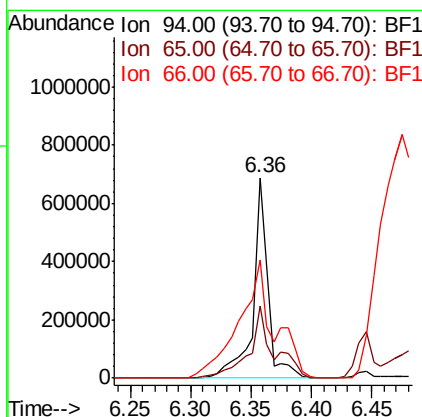
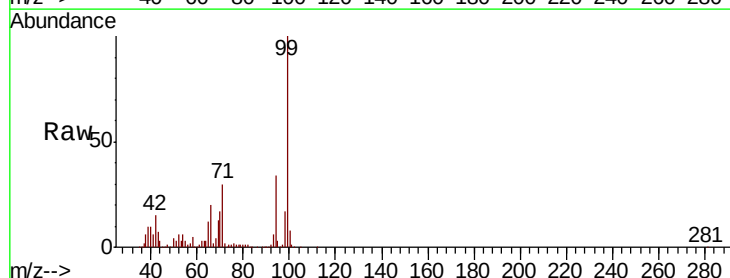
RT: 6.36 min Scan# 726

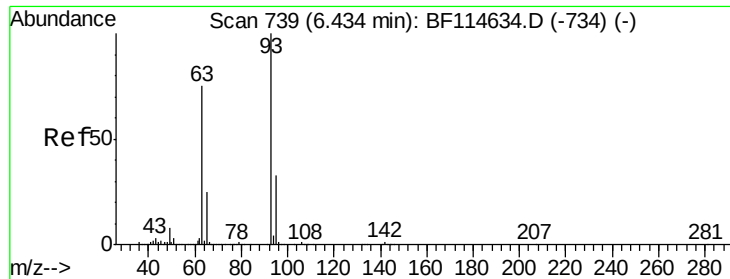
Delta R.T. 0.02 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	94	Resp:	591134
Ion	Ratio	Lower	Upper
94	100		
65	36.1	11.0	51.0
66	58.8	23.0	63.0





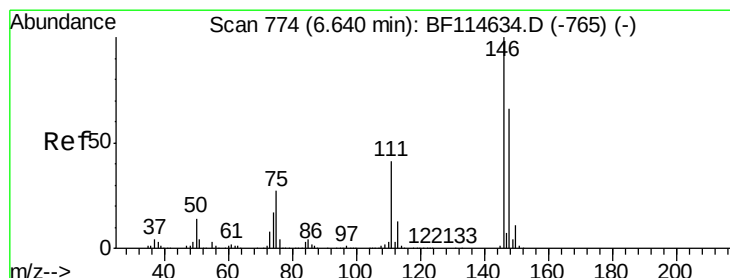
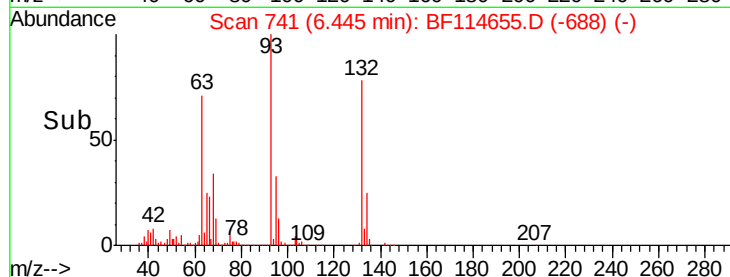
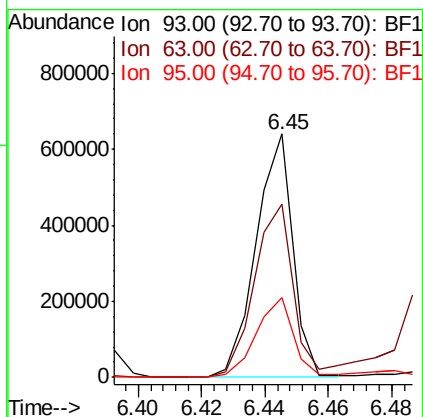
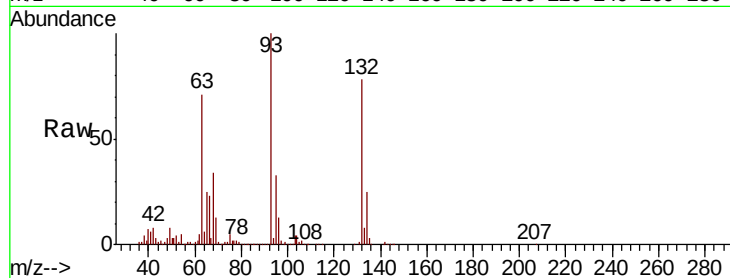
#11
bis(2-Chloroethyl)ether
Concen: 17.576 ng
RT: 6.45 min Scan# 741
Delta R.T. 0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion:	93	Resp:	511961
Ion	Ratio	Lower	Upper
93	100		
63	71.1	55.0	95.0
95	32.8	13.5	53.5

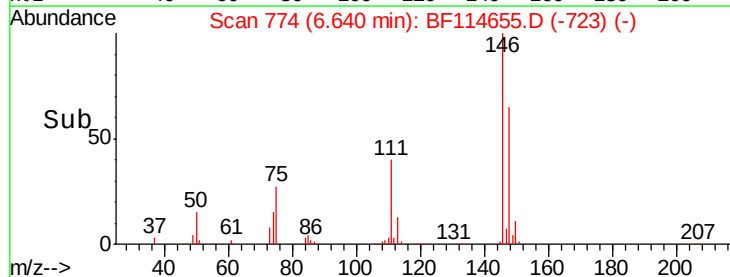
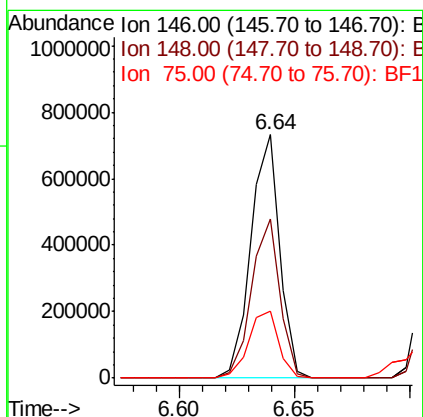
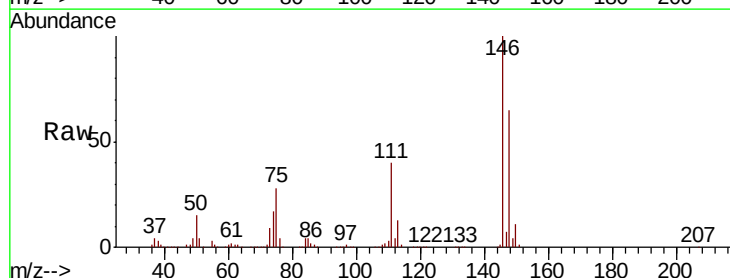
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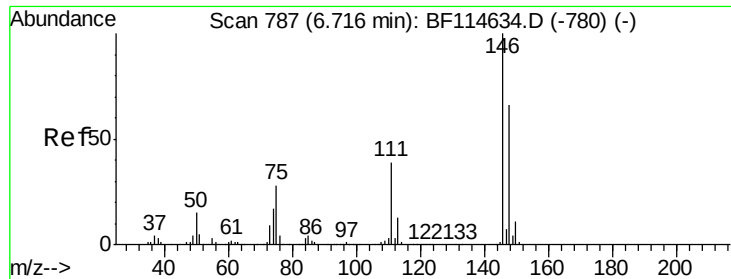
mohammad
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#12
1,3-Dichlorobenzene
Concen: 18.608 ng
RT: 6.64 min Scan# 774
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion:	146	Resp:	640496
Ion	Ratio	Lower	Upper
146	100		
148	65.2	52.9	79.3
75	27.7	22.0	33.0





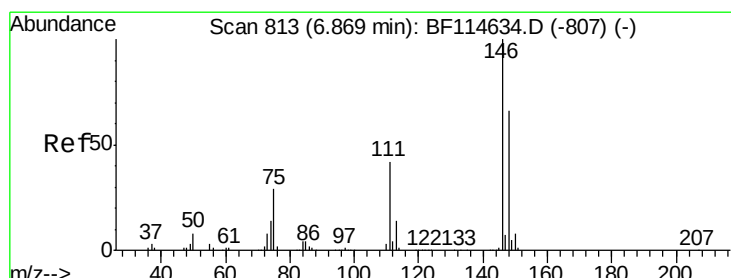
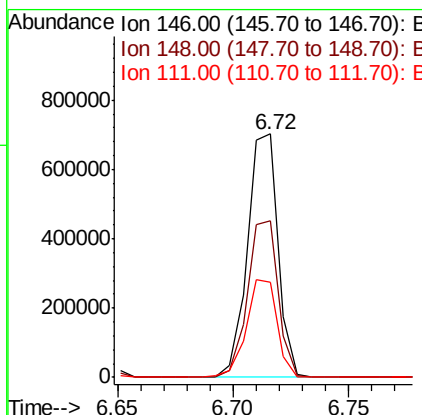
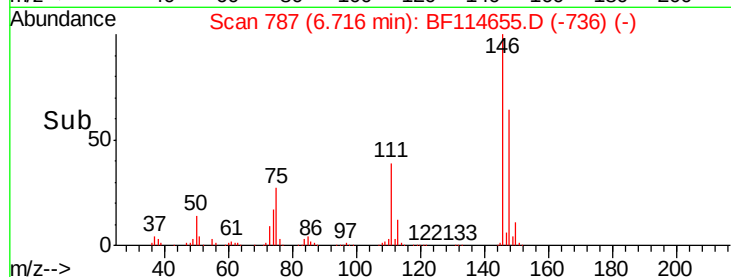
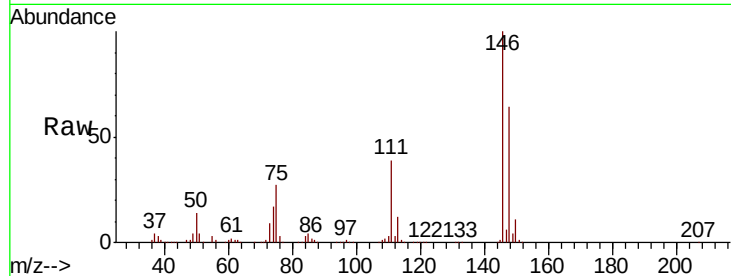
#13
 1,4-Dichlorobenzene
 Concen: 18.843 ng
 RT: 6.72 min Scan# 787
 Delta R.T. 0.00 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
148	64.4	52.5	78.7
111	39.0	31.4	47.2

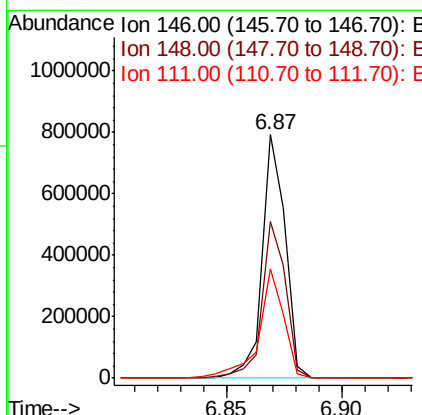
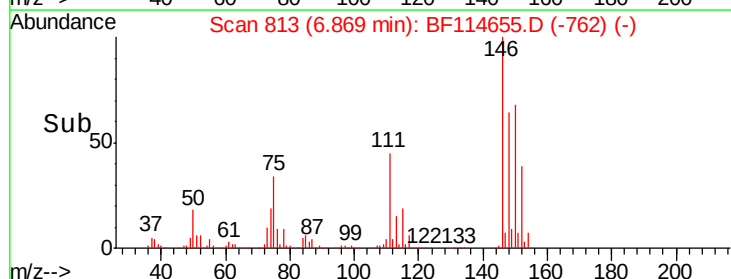
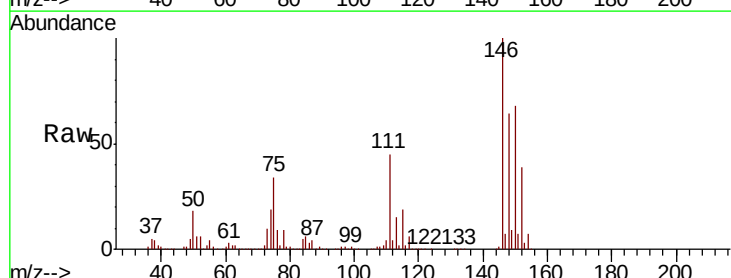
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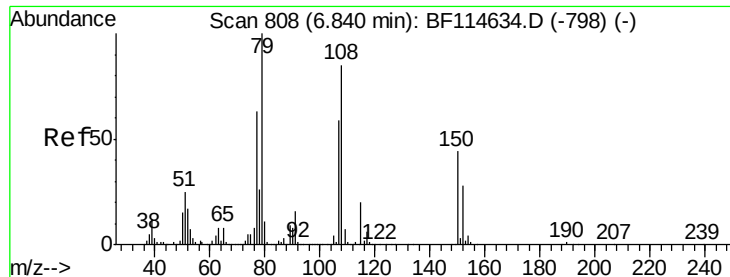
mohammad
 6/3/2019 8:46:59 AM



#14
 1,2-Dichlorobenzene
 Concen: 17.565 ng
 RT: 6.87 min Scan# 813
 Delta R.T. 0.00 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.4	52.6	79.0
111	45.1	34.1	51.1





#15

Benzyl Alcohol

Concen: 18.378 ng m

RT: 6.83 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 79 Resp: 455712

Ion Ratio Lower Upper

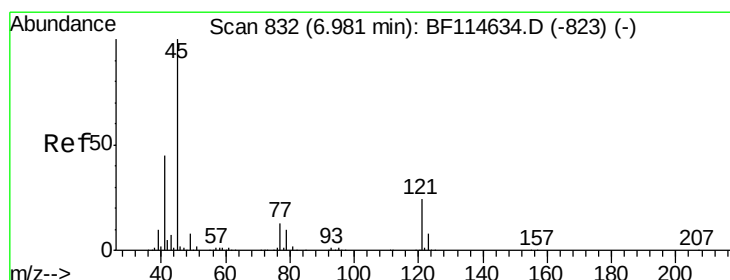
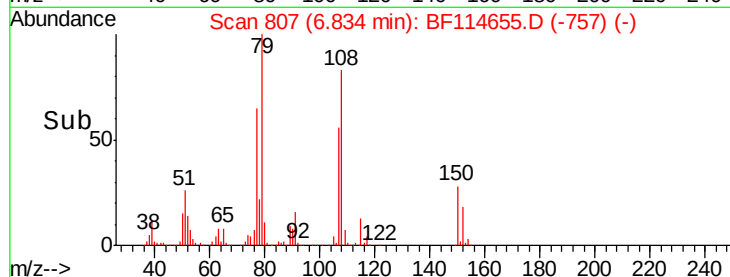
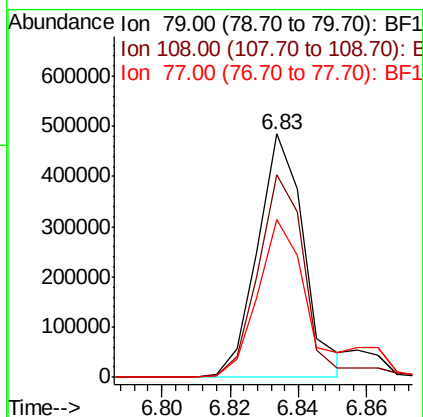
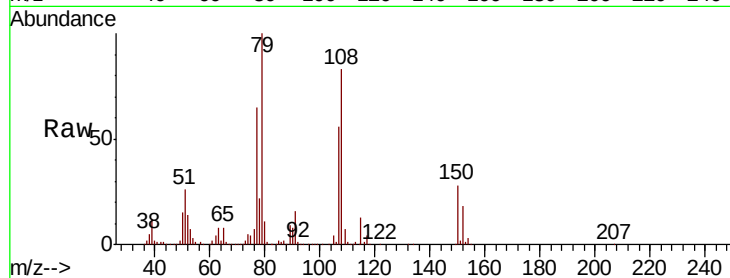
79 100

108 83.3 67.8 101.8

77 65.0 50.7 76.1

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#16

2,2'-oxybis(1-chloropropane)

Concen: 17.270 ng

RT: 6.98 min Scan# 832

Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

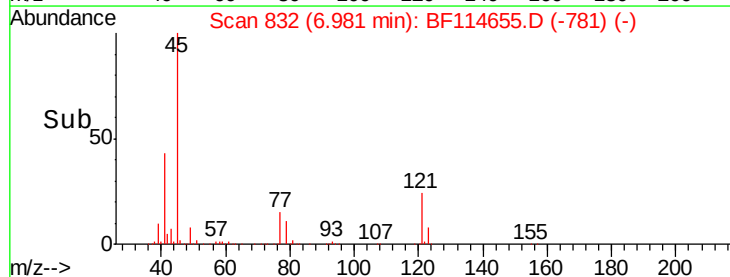
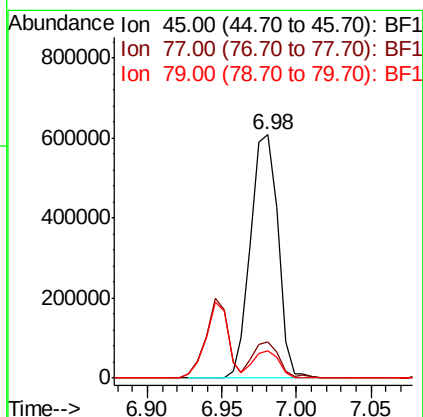
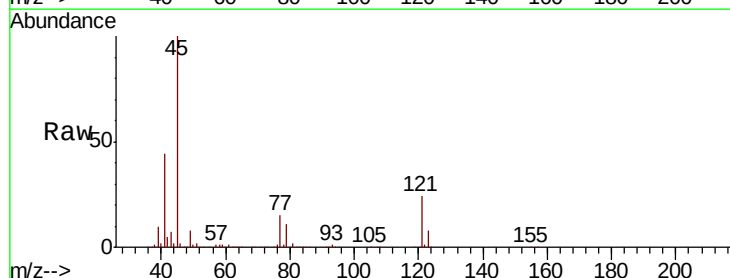
Tgt Ion: 45 Resp: 771596

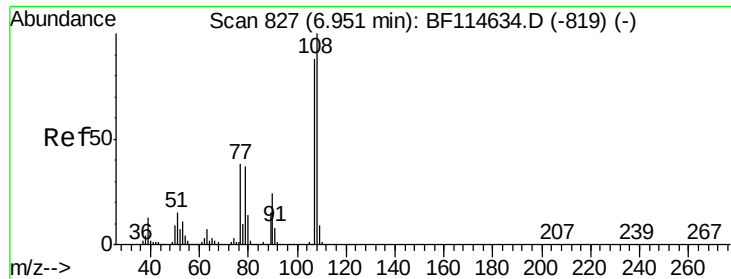
Ion Ratio Lower Upper

45 100

77 14.8 0.0 34.7

79 11.4 0.0 31.3





#17

2-Methylphenol

Concen: 17.961 ng

RT: 6.95 min Scan# 826

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

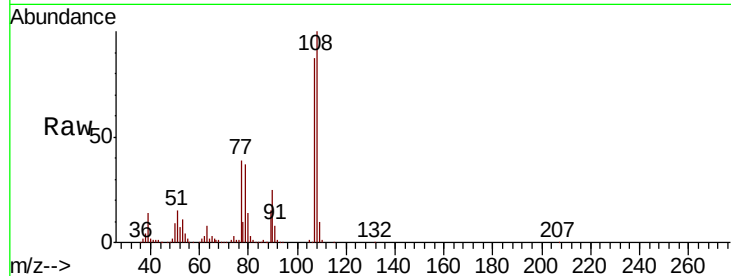
ClientSampleId :

LOQ-SOIL-02-QT2-2019

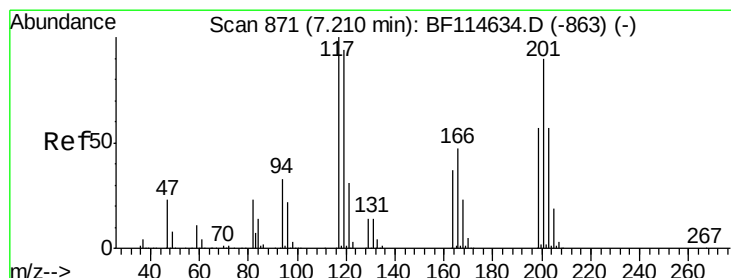
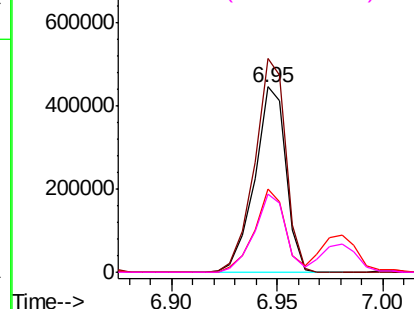
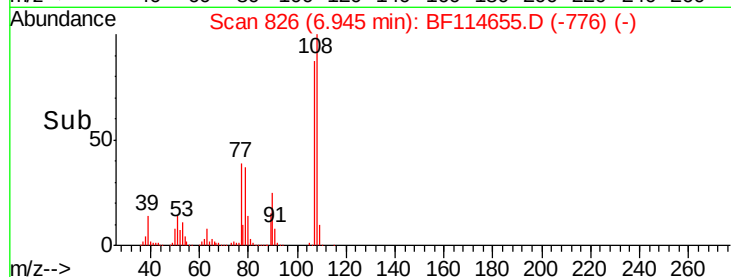
Tot Ion	Ion	Ratio	Resp	Lower	Upper
107	100				
108	115.3	91.1	136.7		
77	45.0	34.9	52.3		
79	42.4	33.8	50.6		

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Abundance Ion 107.00 (106.70 to 107.70): E
800000
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1



#18

Hexachloroethane

Concen: 17.769 ng

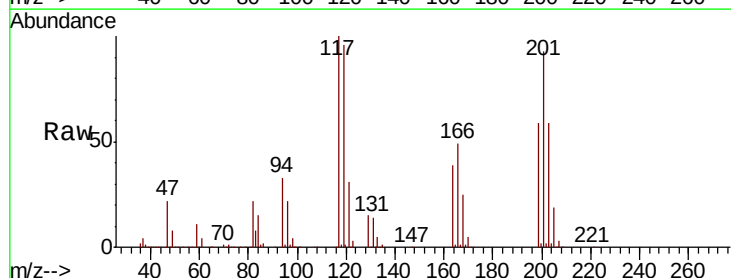
RT: 7.21 min Scan# 871

Delta R.T. 0.00 min

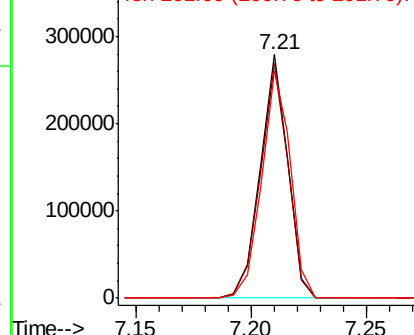
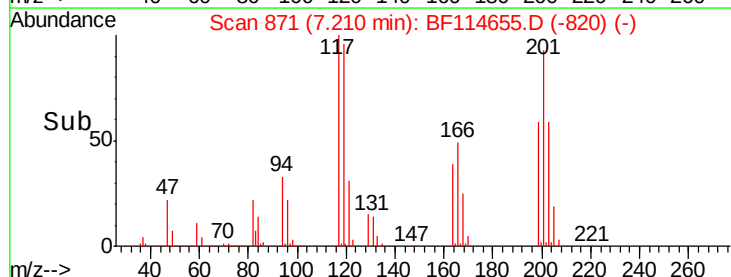
Lab File: BF114655.D

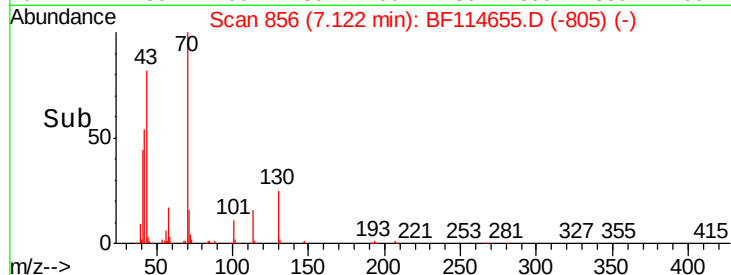
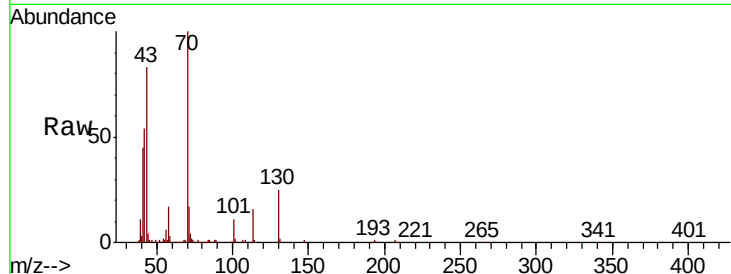
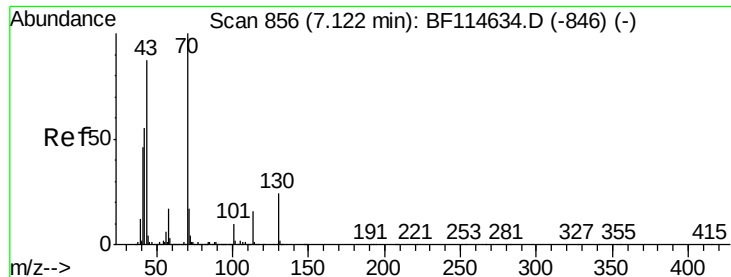
Acq: 30 May 2019 12:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100				
119	96.2	75.6	113.4		
201	93.0	71.7	107.5		



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





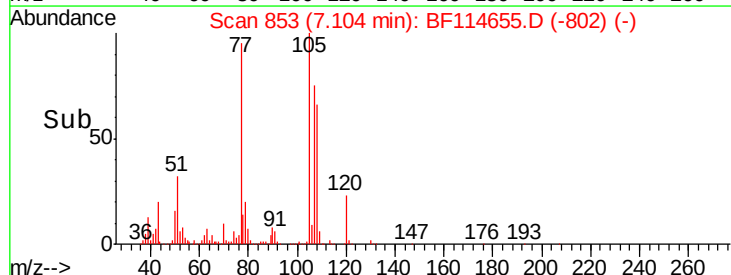
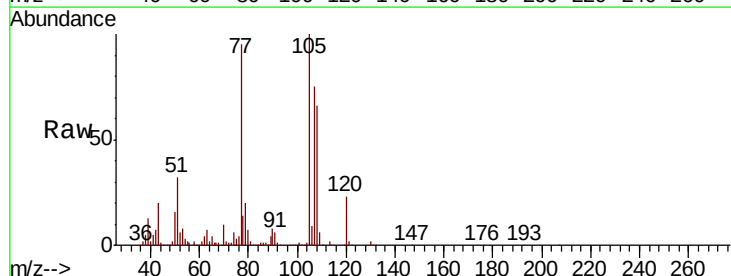
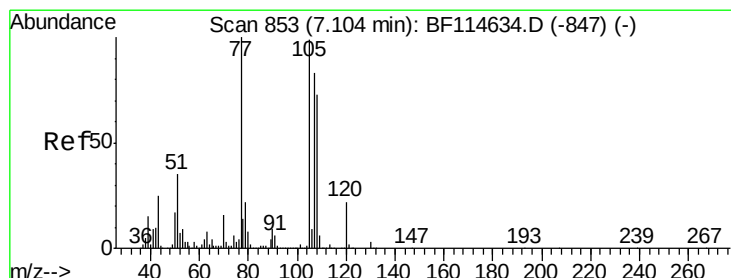
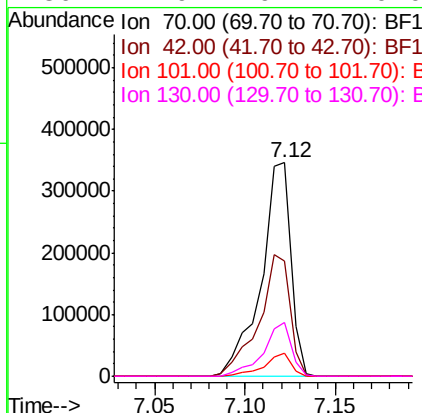
#19
n-Nitroso-di-n-propylamine
Concen: 18.346 ng
RT: 7.12 min Scan# 856
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
70	100		399210		
42	54.2	44.4	66.6		
101	10.6	8.2	12.4		
130	24.9	19.4	29.0		

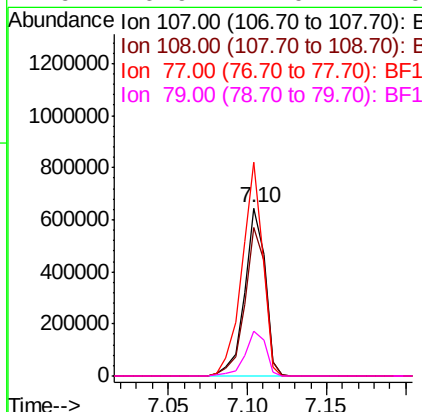
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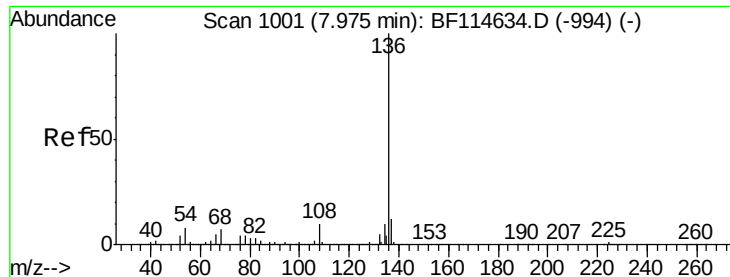
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#20
3+4-Methylphenols
Concen: 19.133 ng
RT: 7.10 min Scan# 853
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		574996		
108	88.6	68.6	108.6		
77	127.1	100.5	140.5		
79	26.9	7.0	47.0		





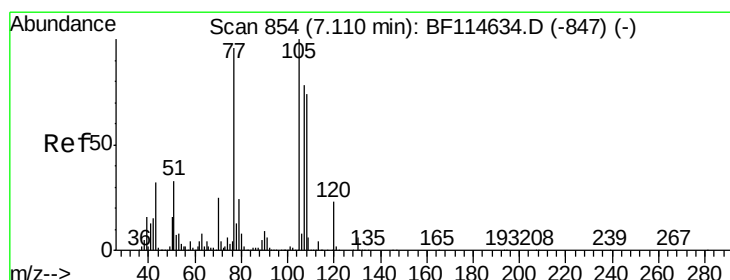
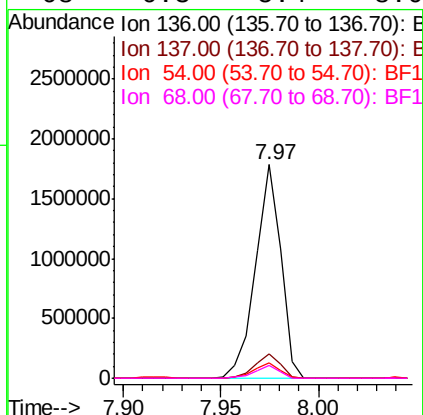
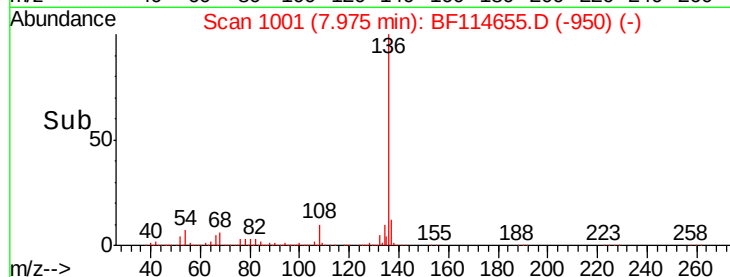
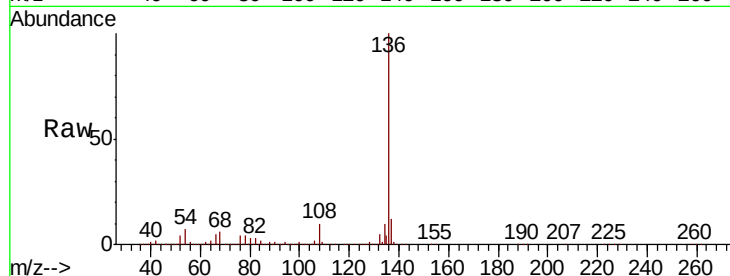
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	136	Resp	1605218
Ion	Ratio	Lower	Upper
136	100		
137	11.6	9.3	13.9
54	7.4	6.3	9.5
68	6.3	5.4	8.0

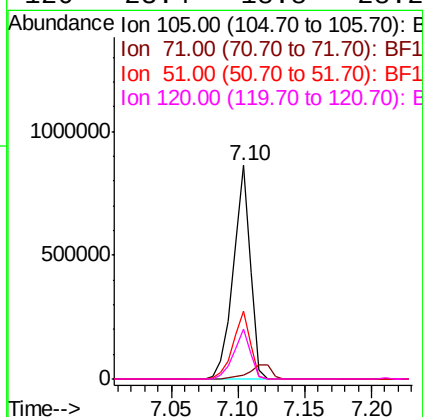
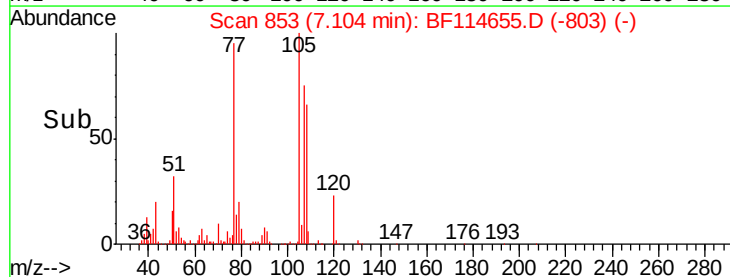
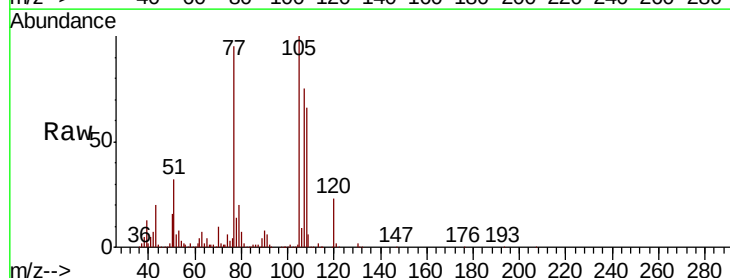
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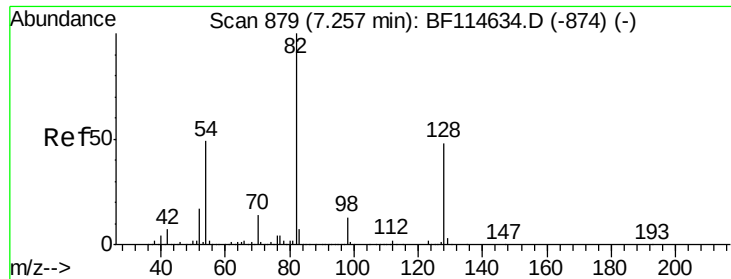
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#22
Acetophenone
Concen: 22.683 ng
RT: 7.10 min Scan# 853
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	105	Resp	775810
Ion	Ratio	Lower	Upper
105	100		
71	1.6	3.6	5.4#
51	31.9	26.0	39.0
120	23.4	18.8	28.2





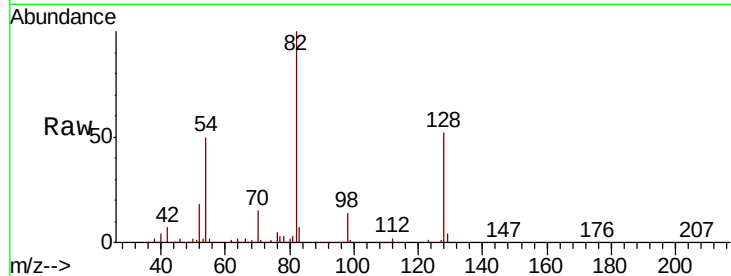
#23
 Nitrobenzene-d5
 Concen: 168.748 ng
 RT: 7.27 min Scan# 881
 Delta R.T. 0.01 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	82	Resp	4341736
Ion Ratio	100	Lower	Upper
82	100		
128	52.4	38.5	57.7
54	50.1	39.1	58.7

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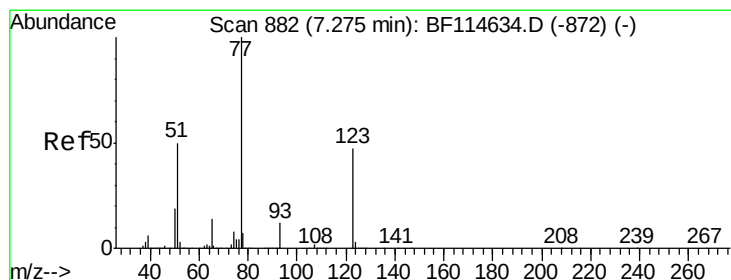
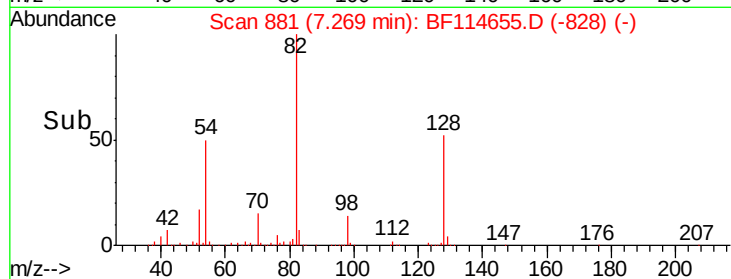
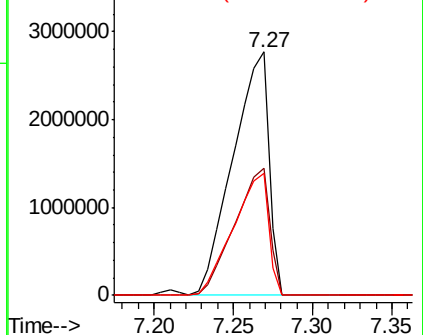


Abundance

Ion 82.00 (81.70 to 82.70): BF1

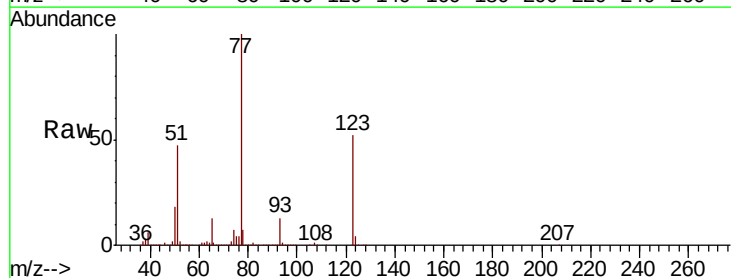
Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#24
 Nitrobenzene
 Concen: 20.809 ng
 RT: 7.28 min Scan# 883
 Delta R.T. 0.01 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Tgt Ion	77	Resp	568728
Ion Ratio	100	Lower	Upper
77	100		
123	51.9	38.5	57.7
65	13.3	11.2	16.8

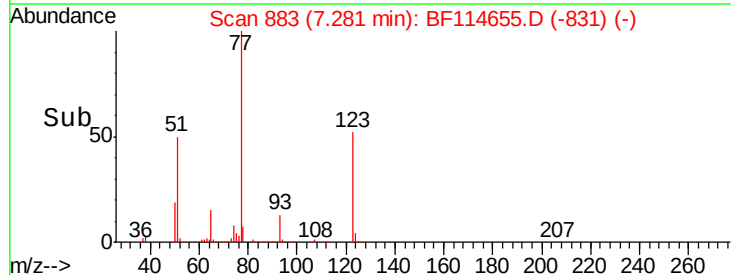
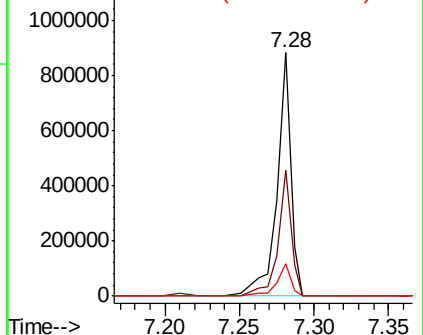


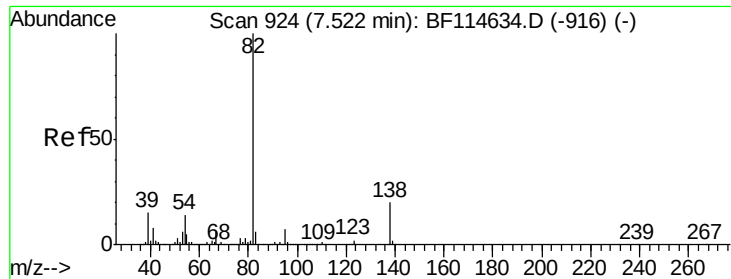
Abundance

Ion 77.00 (76.70 to 77.70): BF1

Ion 123.00 (122.70 to 123.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 20.045 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 82 Resp: 1035005

Ion Ratio Lower Upper

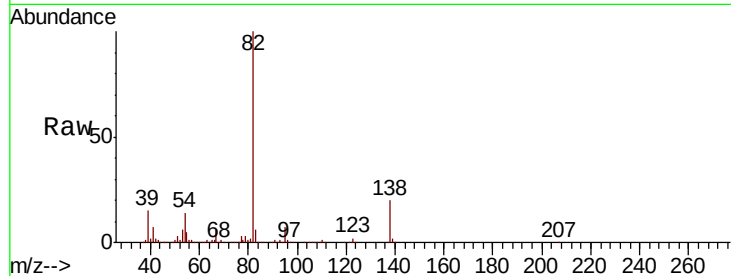
82 100

95 6.9 5.6 8.4

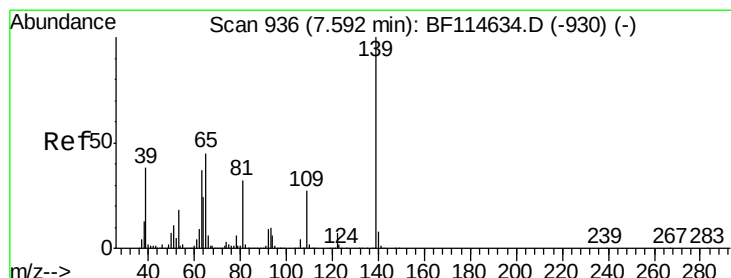
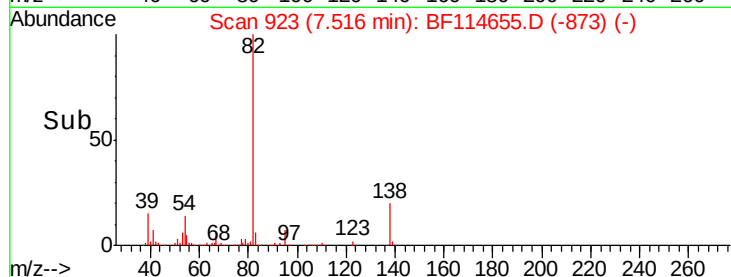
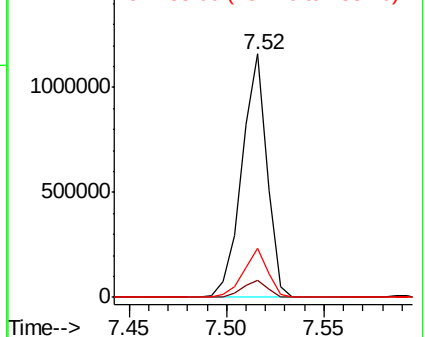
138 20.0 15.9 23.9

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Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#26

2-Nitrophenol

Concen: 20.934 ng

RT: 7.59 min Scan# 936

Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

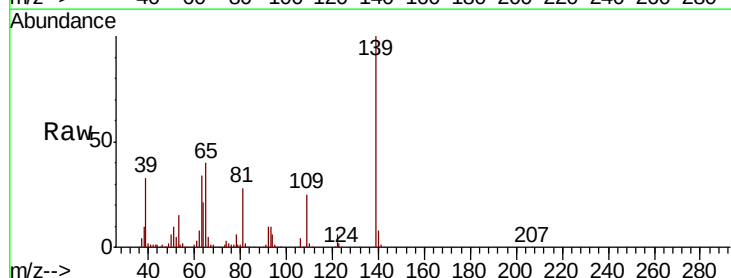
Tgt Ion: 139 Resp: 278509

Ion Ratio Lower Upper

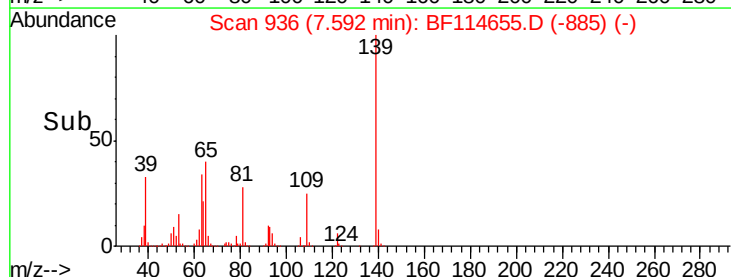
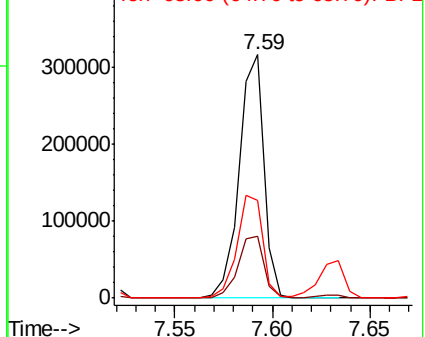
139 100

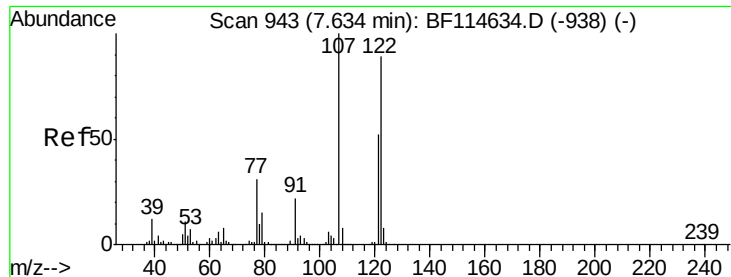
109 25.4 21.7 32.5

65 40.1 36.3 54.5



Abundance Ion 139.00 (138.70 to 139.70): BF1
Ion 109.00 (108.70 to 109.70): BF1
Ion 65.00 (64.70 to 65.70): BF1





#27

2,4-Dimethylphenol

Concen: 22.914 ng

RT: 7.63 min Scan# 943

Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

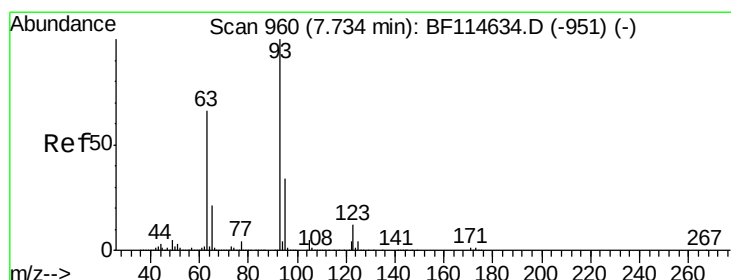
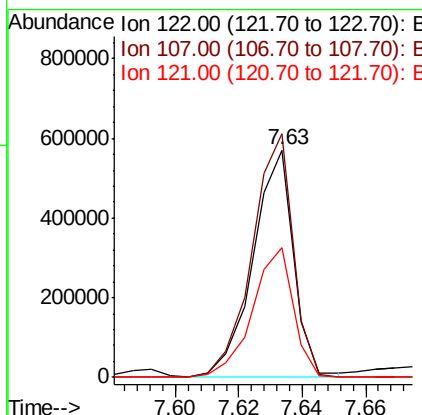
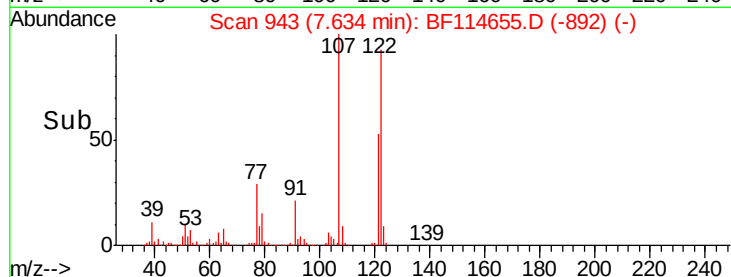
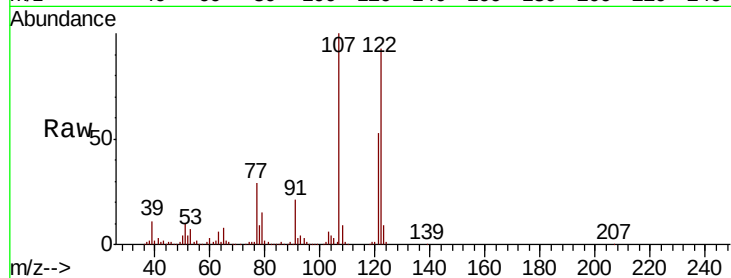
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	122	Resp:	506983
Ion Ratio	Lower	Upper	
122	100		
107	107.3	89.3	133.9
121	57.2	46.8	70.2

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#28

bis(2-Chloroethoxy)methane

Concen: 20.461 ng

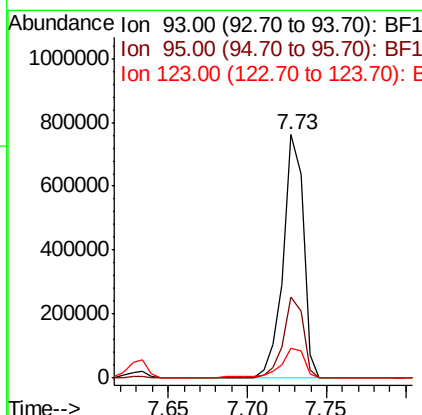
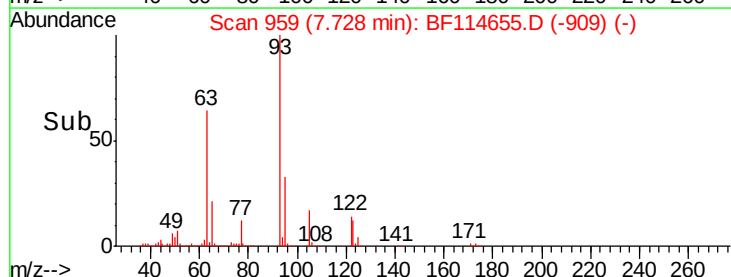
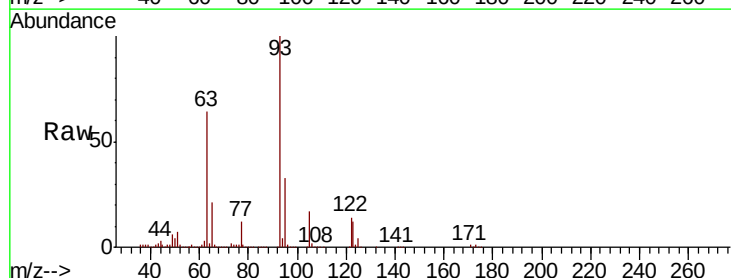
RT: 7.73 min Scan# 959

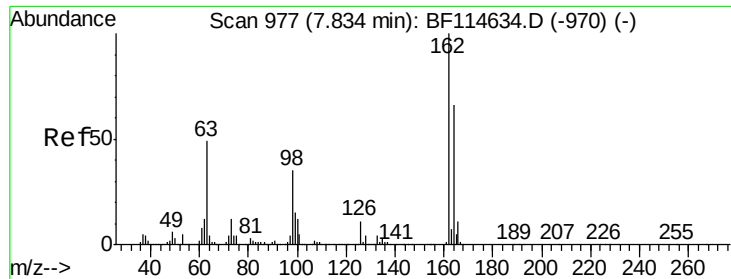
Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	93	Resp:	672531
Ion Ratio	Lower	Upper	
93	100		
95	33.2	27.0	40.4
123	12.5	10.2	15.2





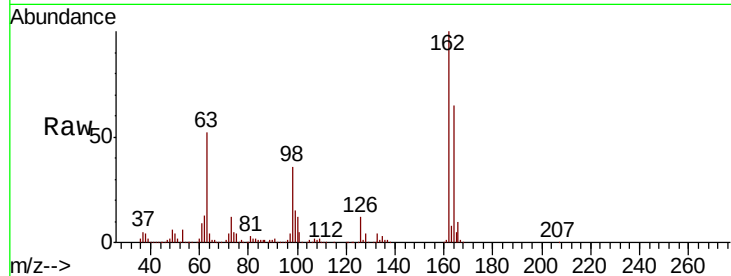
#29
2,4-Dichlorophenol
Concen: 21.225 ng
RT: 7.83 min Scan# 976
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

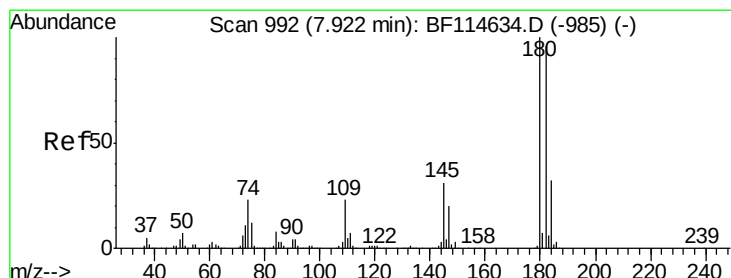
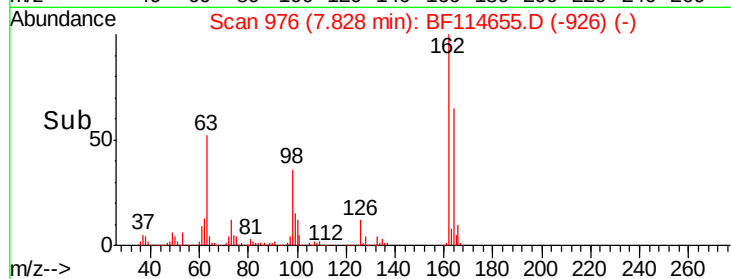
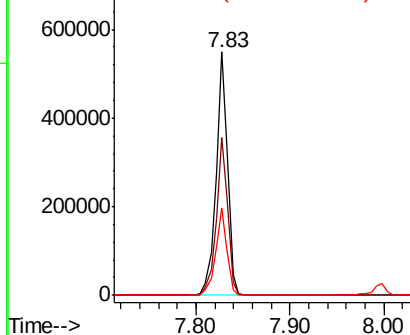
Tot Ion	Ion	Ratio	Resp	Lower	Upper
162	100		478007		
164	64.8	45.8	85.8		
98	36.1	14.9	54.9		

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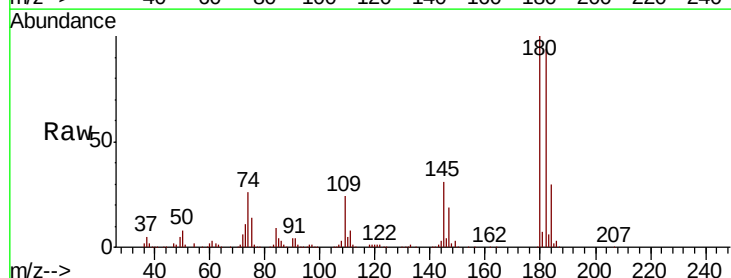


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF1

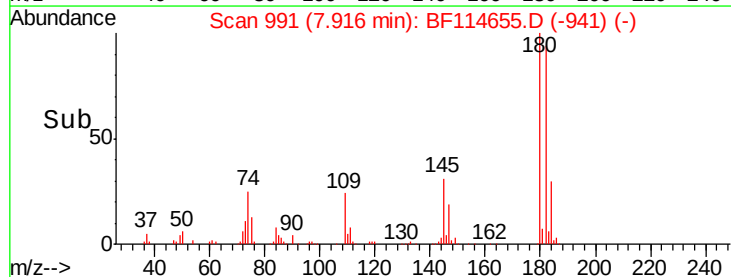
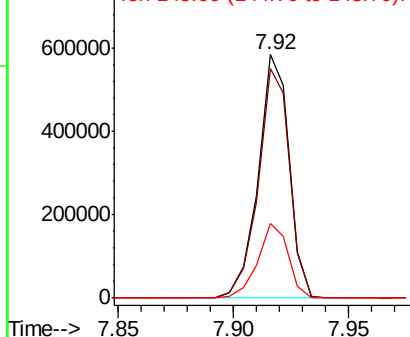


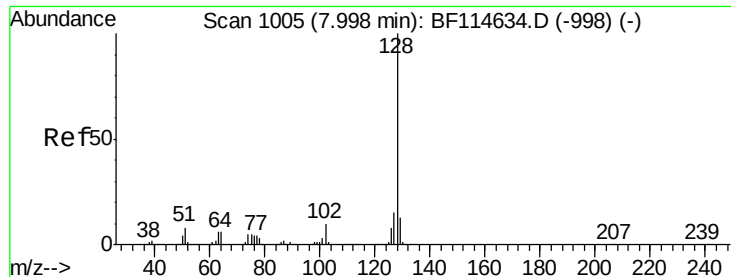
#30
1,2,4-Trichlorobenzene
Concen: 21.234 ng
RT: 7.92 min Scan# 991
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
180	100		544832		
182	94.1	76.9	115.3		
145	30.9	24.5	36.7		



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





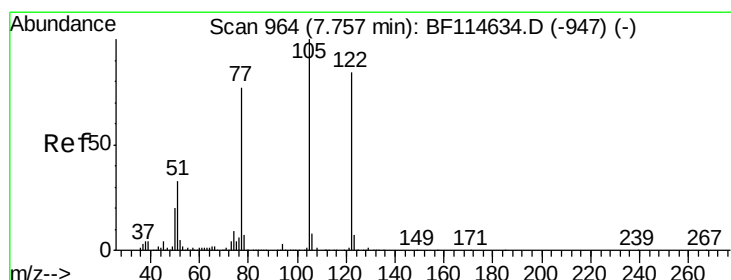
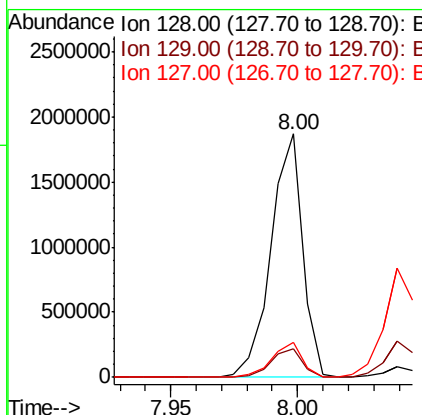
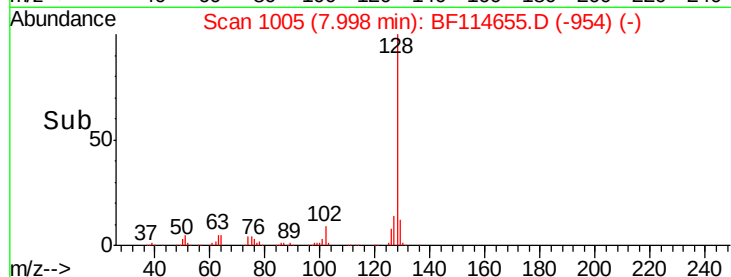
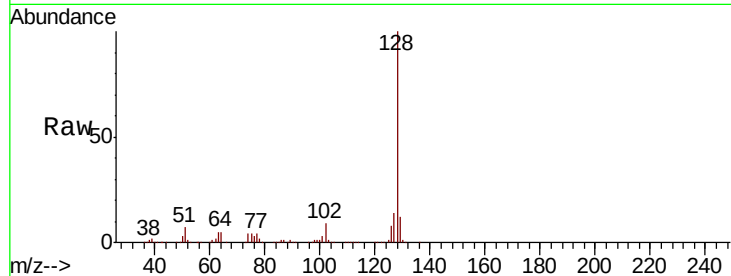
#31
Naphthalene
Concen: 22.311 ng
RT: 8.00 min Scan# 1005
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.7	10.2	15.2
127	14.2	11.9	17.9

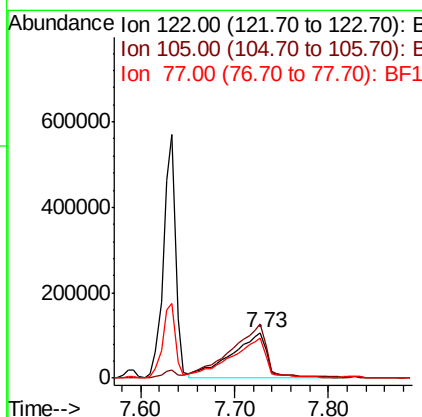
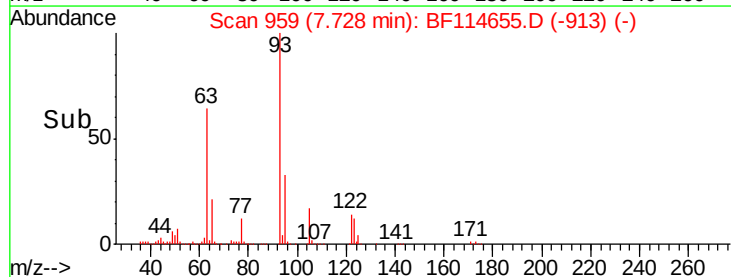
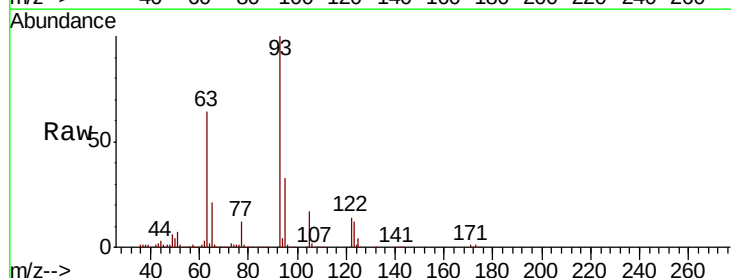
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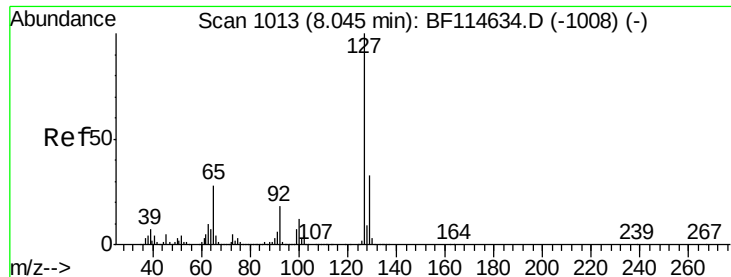
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#32
Benzoic acid
Concen: 19.615 ng
RT: 7.73 min Scan# 959
Delta R.T. -0.03 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
122	100		
105	119.6	98.3	138.3
77	87.6	70.7	110.7





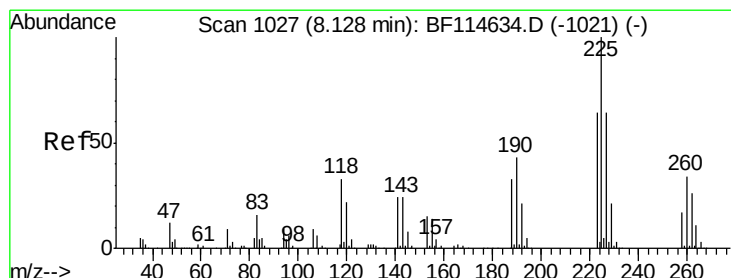
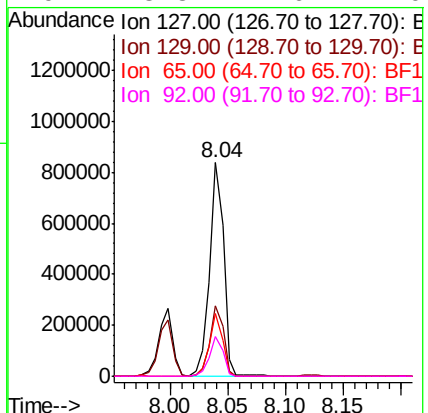
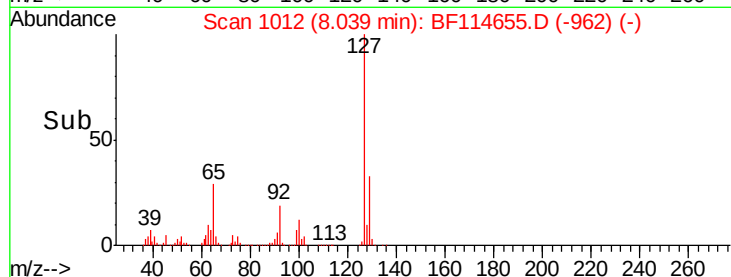
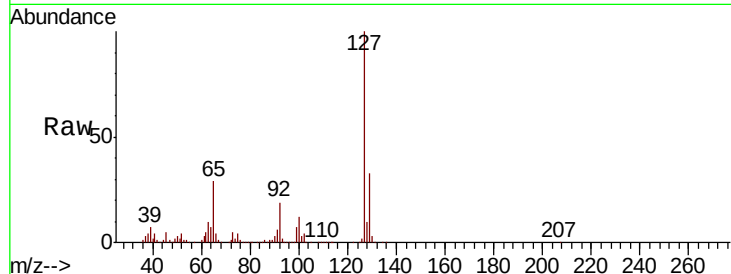
#33
4-Chloroaniline
Concen: 20.169 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100		710490		
129	32.7	26.7	40.1		
65	29.2	22.5	33.7		
92	18.8	14.6	22.0		

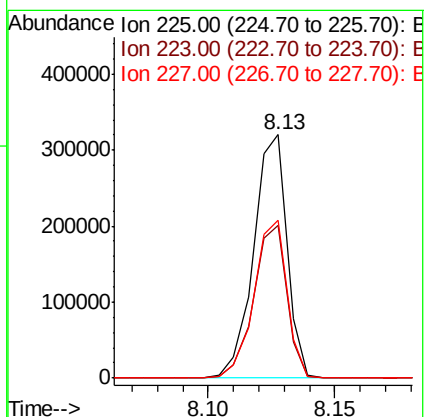
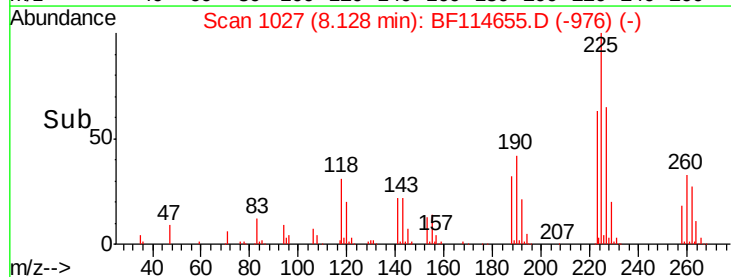
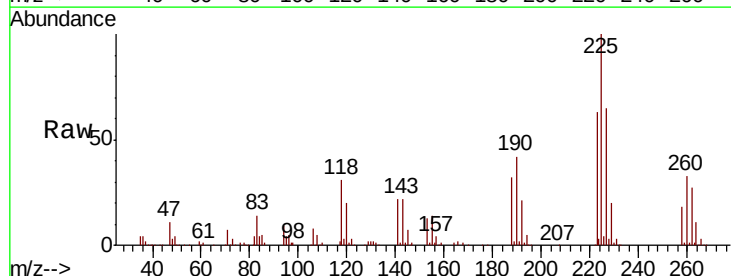
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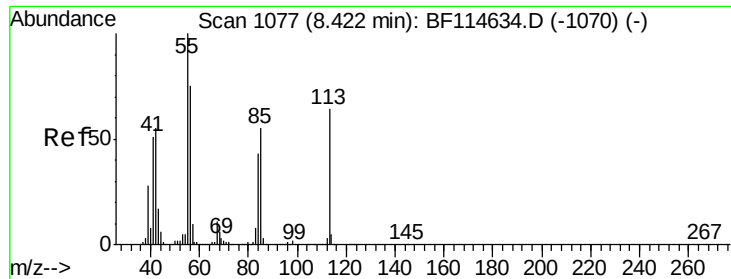
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#34
Hexachlorobutadiene
Concen: 20.653 ng
RT: 8.13 min Scan# 1027
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100		294376		
223	62.9	50.9	76.3		
227	64.7	51.3	76.9		





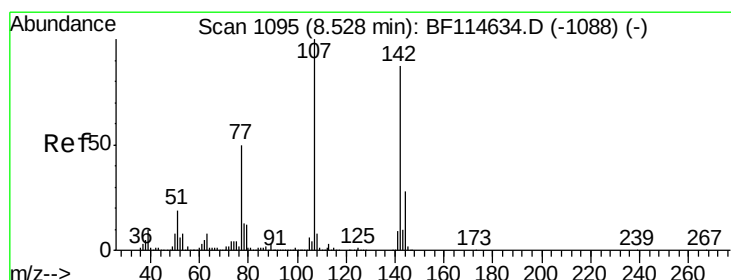
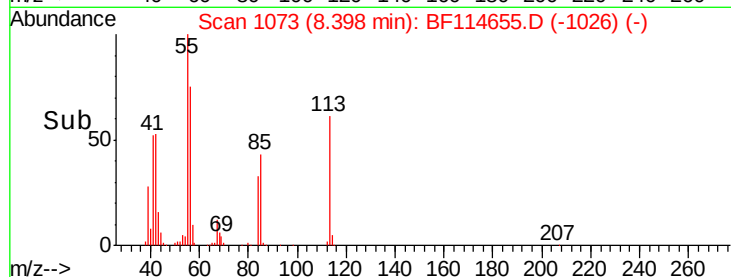
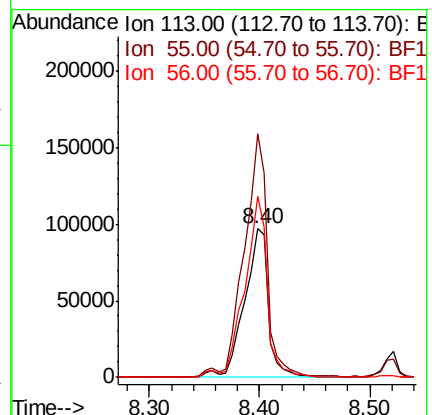
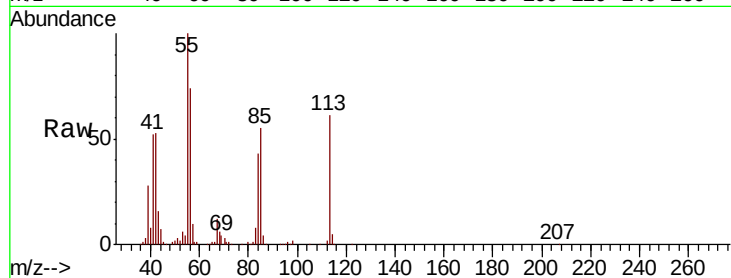
#35
 Caprolactam
 Concen: 19.345 ng
 RT: 8.40 min Scan# 1073
 Delta R.T. -0.02 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
113	100		
55	164.2	136.4	176.4
56	122.2	97.0	137.0

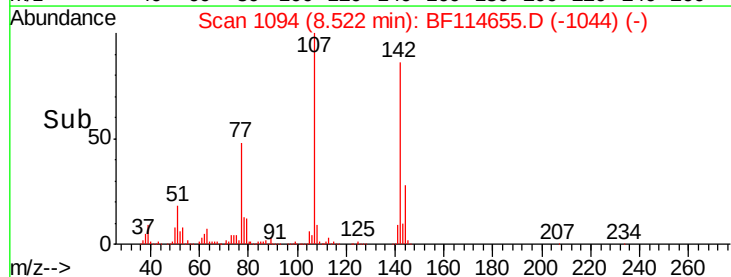
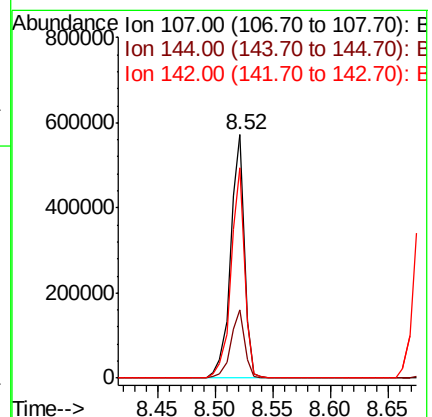
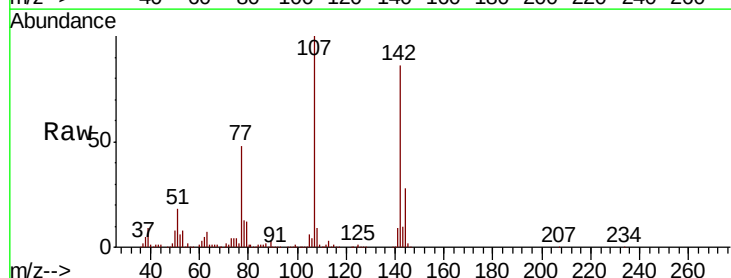
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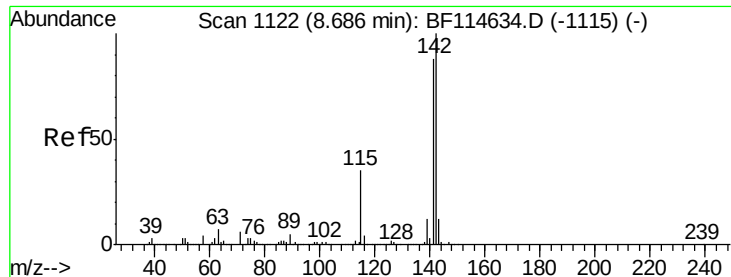
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#36
 4-Chloro-3-methylphenol
 Concen: 21.094 ng
 RT: 8.52 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
107	100		
144	28.2	22.5	33.7
142	86.4	69.8	104.6





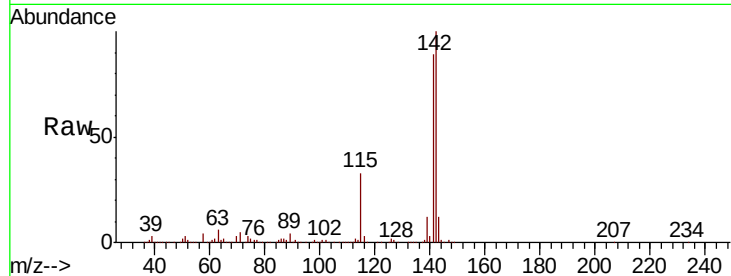
#37
2-Methylnaphthalene
Concen: 22.719 ng
RT: 8.69 min Scan# 1122
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.3	105.5
115	32.6	28.0	42.0

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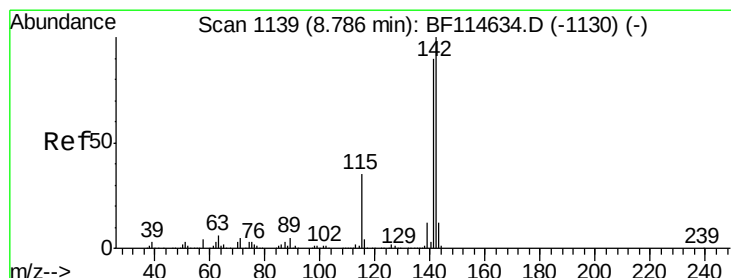
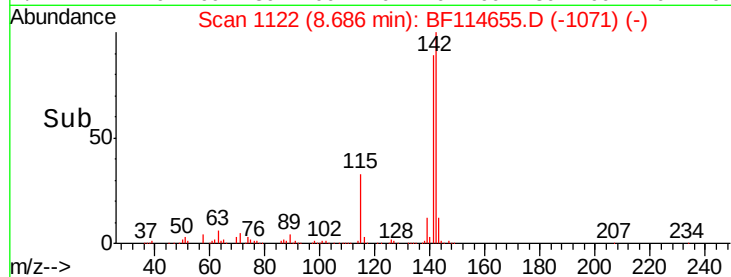
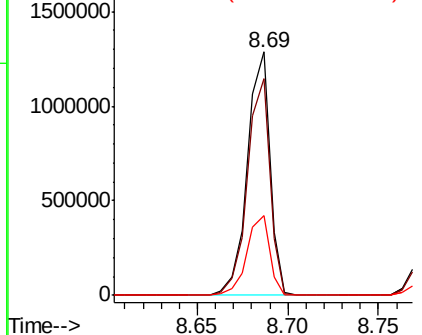


Abundance

Ion 142.00 (141.70 to 142.70): E

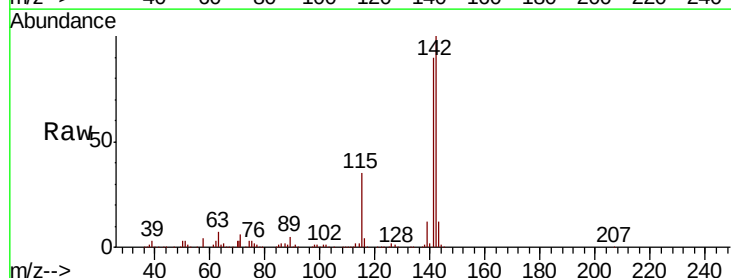
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 22.975 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.3	108.5
116	3.6	3.0	4.4

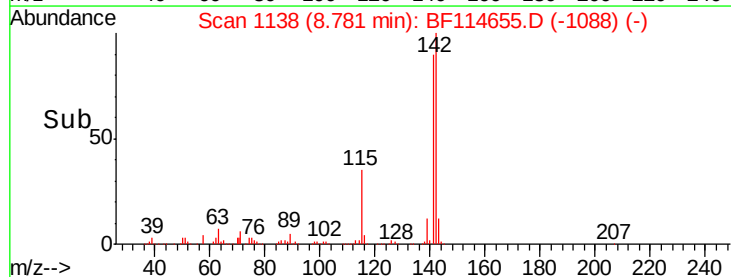
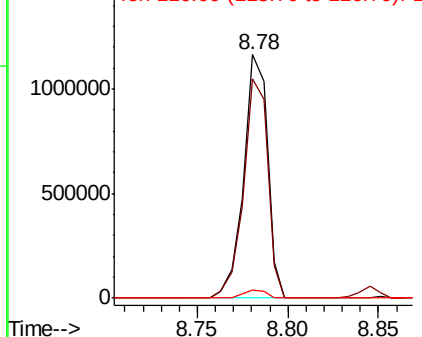


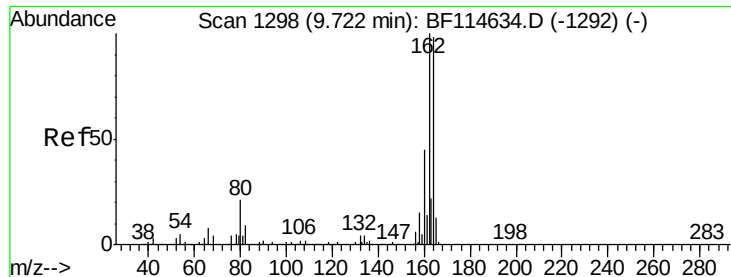
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





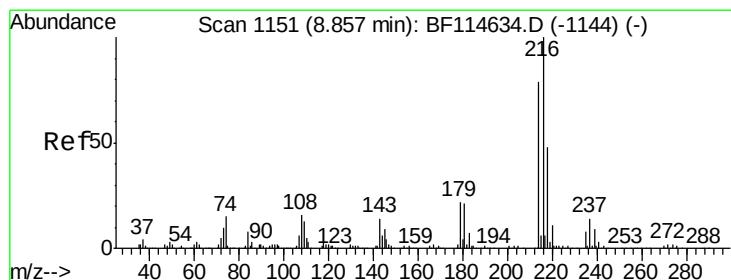
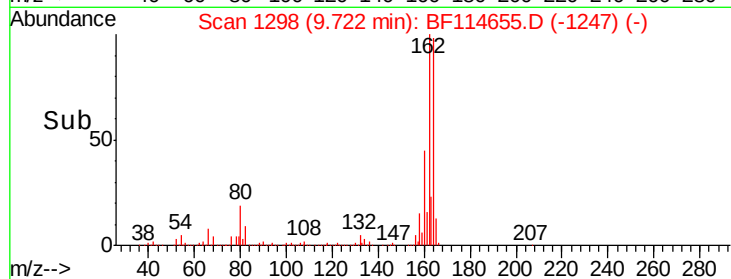
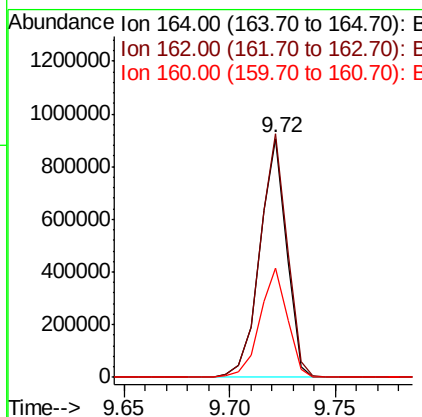
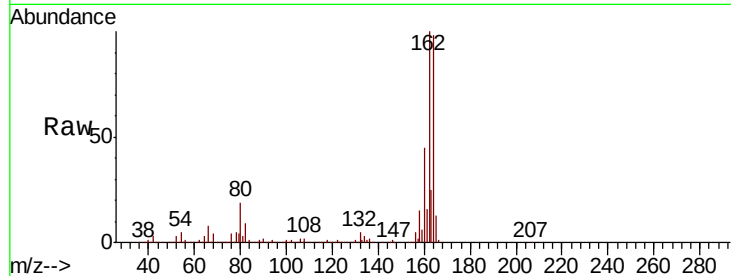
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.0	81.4	122.2	
160	45.9	36.6	54.8	

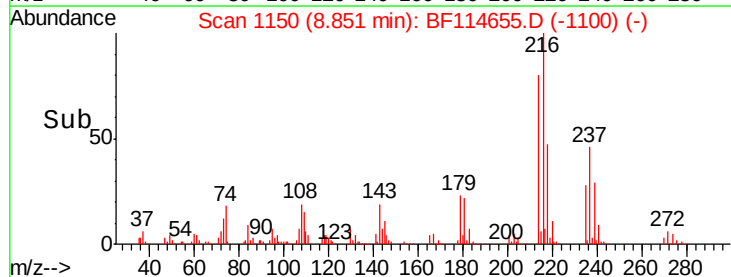
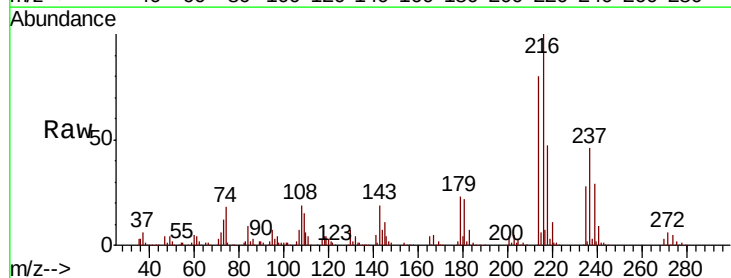
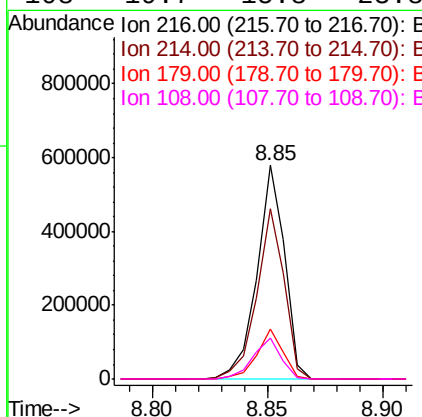
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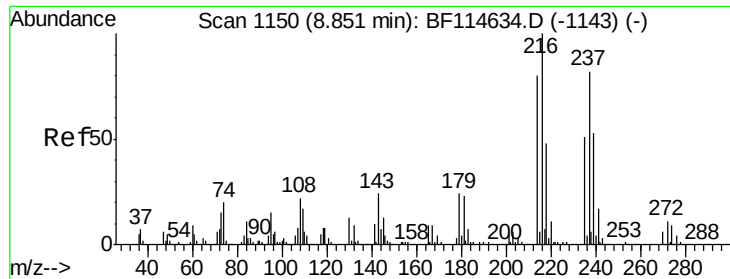
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#40
1,2,4,5-Tetrachlorobenzene
Concen: 22.796 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
216	100			
214	78.8	63.2	94.8	
179	22.0	17.9	26.9	
108	19.7	15.8	23.8	





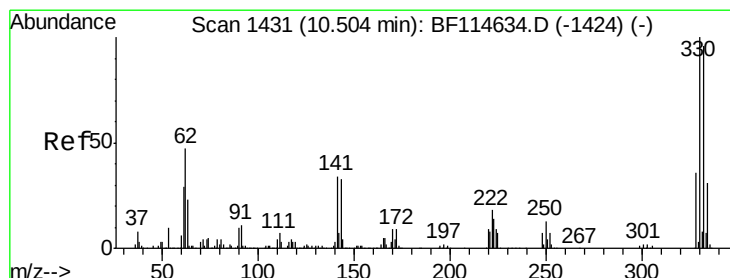
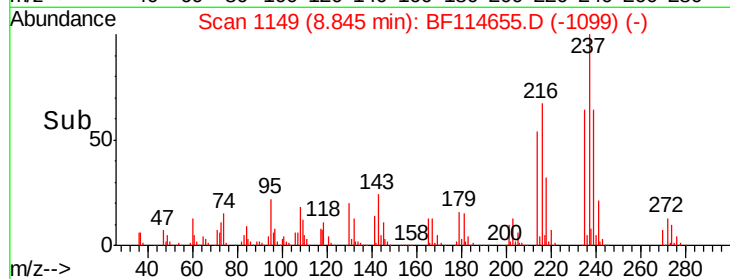
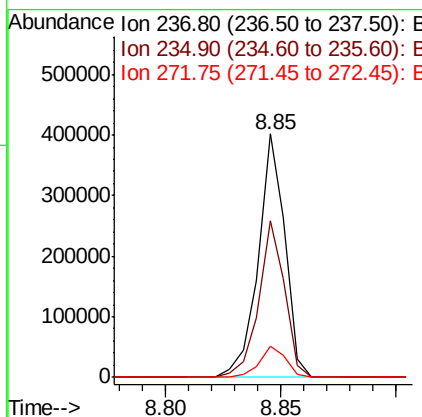
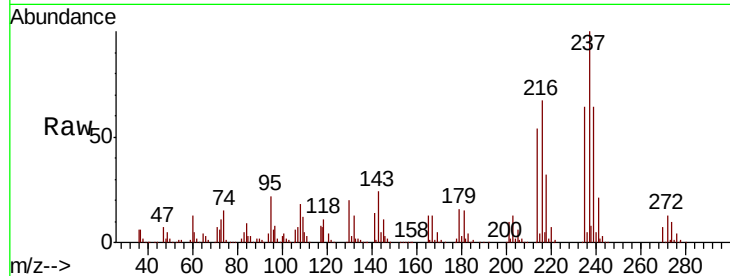
#41
Hexachlorocyclopentadiene
Concen: 22.986 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion:	237	Resp:	323393
Ion Ratio	Lower	Upper	
237	100		
235	64.3	42.8	82.8
272	12.7	0.0	33.7

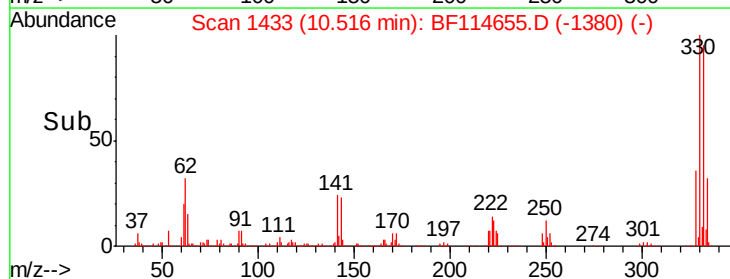
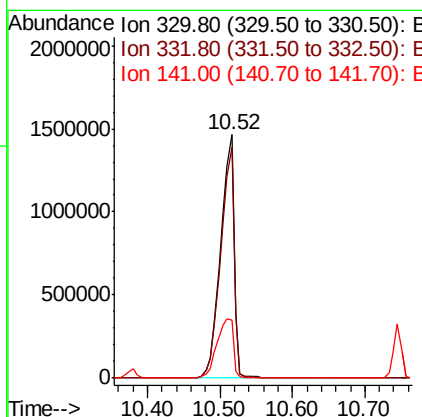
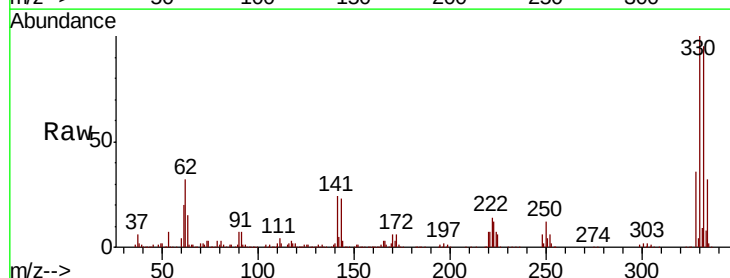
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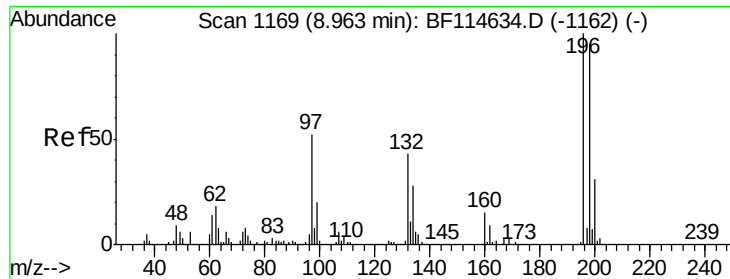
mohammad
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#42
2,4,6-Tribromophenol
Concen: 250.167 ng
RT: 10.52 min Scan# 1433
Delta R.T. 0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion:	330	Resp:	1905715
Ion Ratio	Lower	Upper	
330	100		
332	95.0	75.8	113.8
141	29.4	27.8	41.8





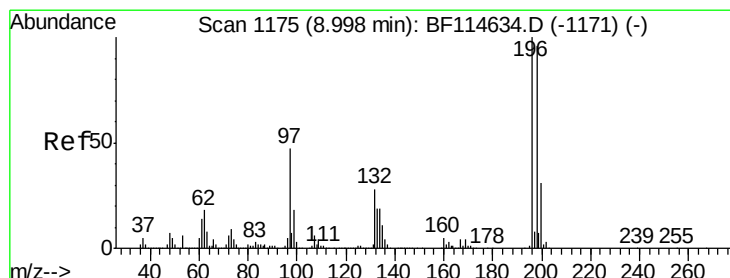
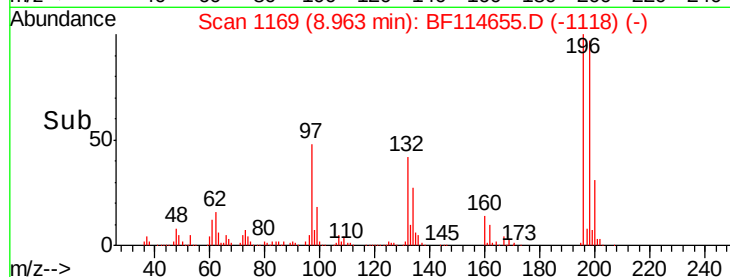
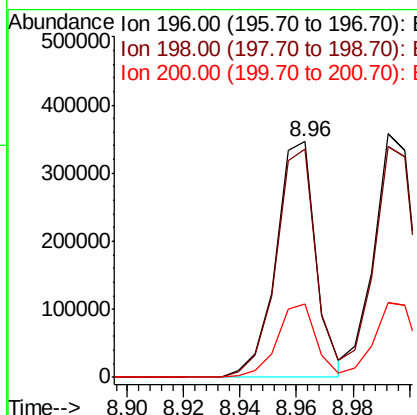
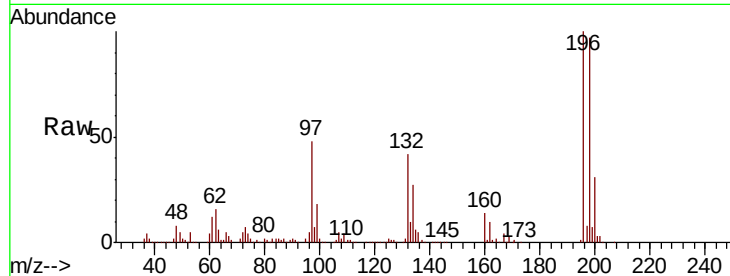
#43
 2,4,6-Trichlorophenol
 Concen: 20.298 ng
 RT: 8.96 min Scan# 1169
 Delta R.T. 0.00 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
196	100	340031		
198	97.1	76.1	114.1	
200	31.0	24.7	37.1	

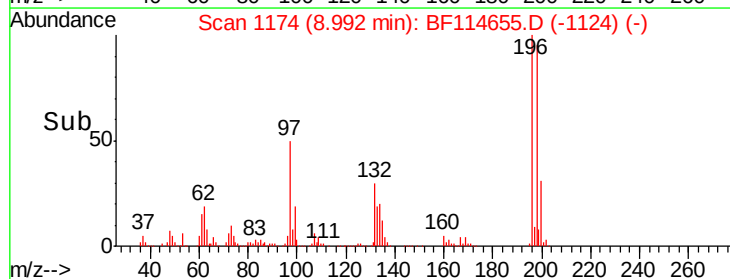
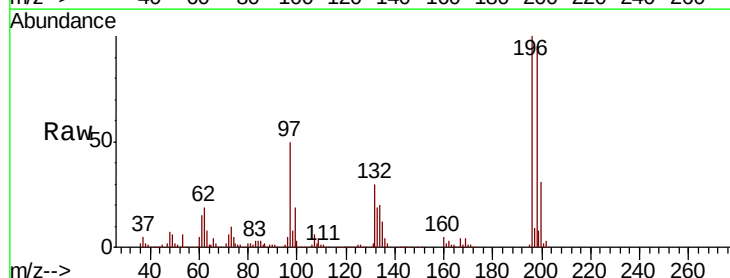
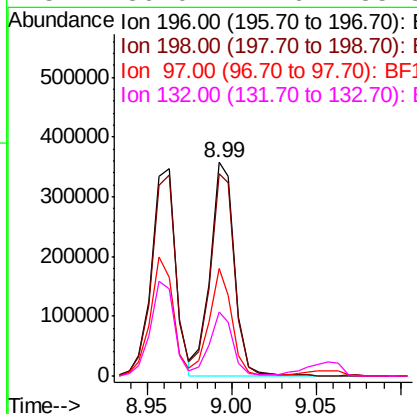
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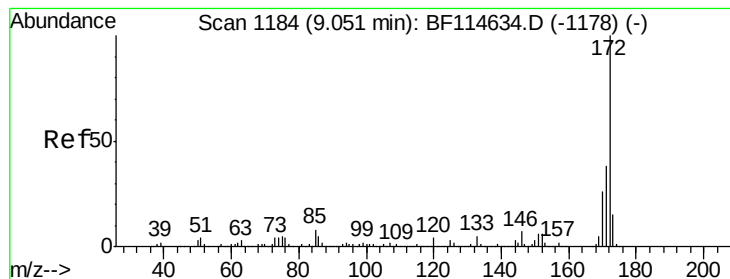
mohammad
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#44
 2,4,5-Trichlorophenol
 Concen: 21.422 ng
 RT: 8.99 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	358118		
198	94.9	76.8	115.2	
97	50.2	37.8	56.8	
132	30.0	22.6	33.8	





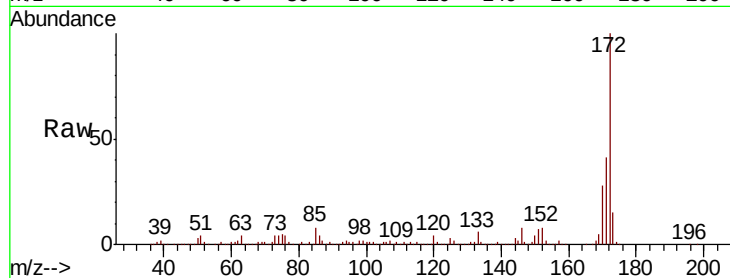
#45
2-Fluorobiphenyl
Concen: 123.077 ng
RT: 9.06 min Scan# 1186
Delta R.T. 0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
172	100		
171	41.4	30.6	45.8
170	28.2	20.7	31.1

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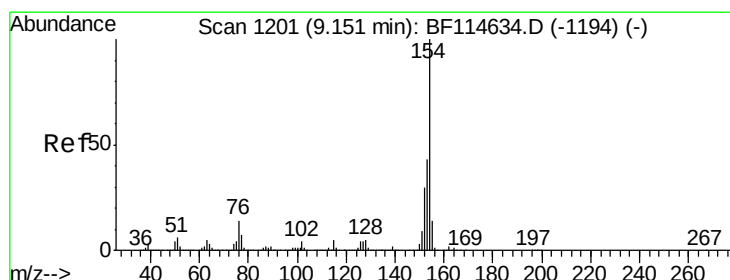
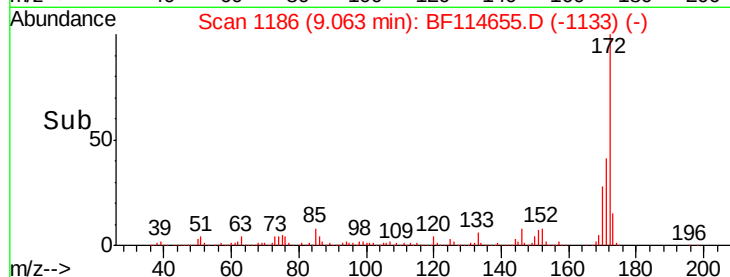
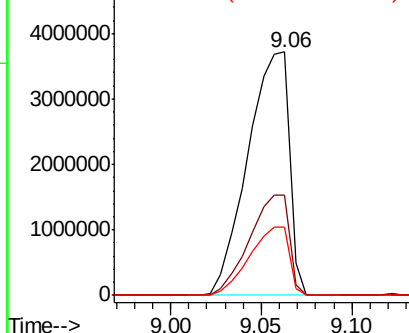


Abundance

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



#46
1,1'-Biphenyl
Concen: 22.419 ng
RT: 9.15 min Scan# 1201
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

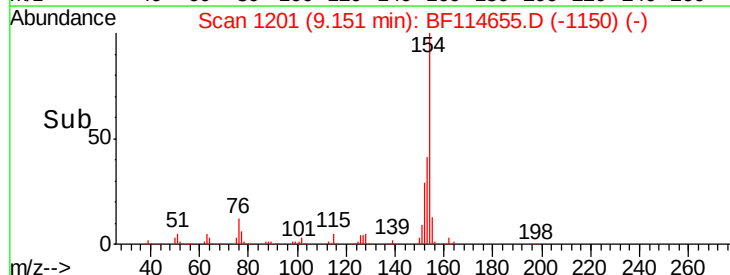
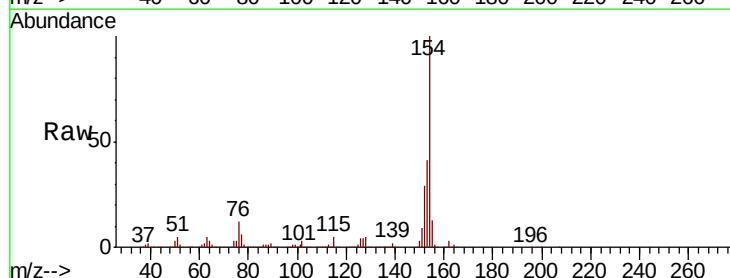
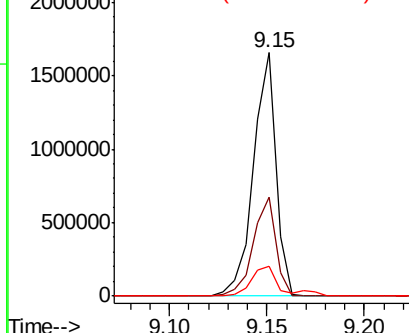
Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.9	23.0	63.0
76	12.2	0.0	33.9

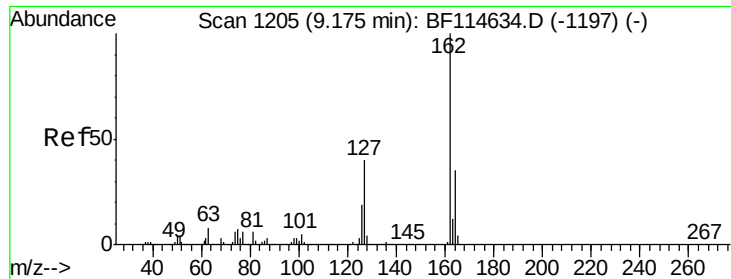
Abundance

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): BF1





#47

2-Chloronaphthalene

Concen: 21.726 ng

RT: 9.17 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

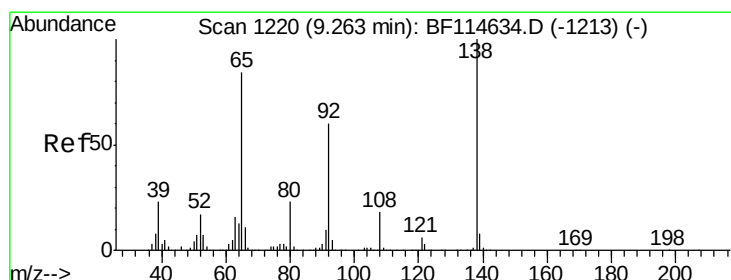
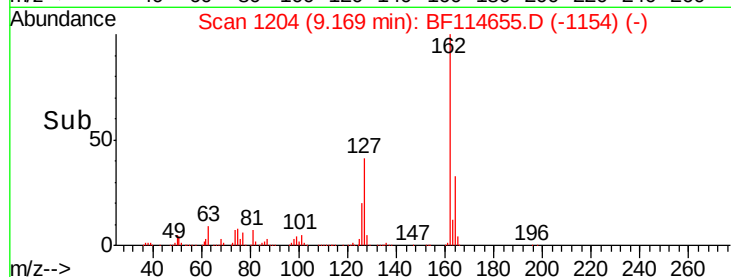
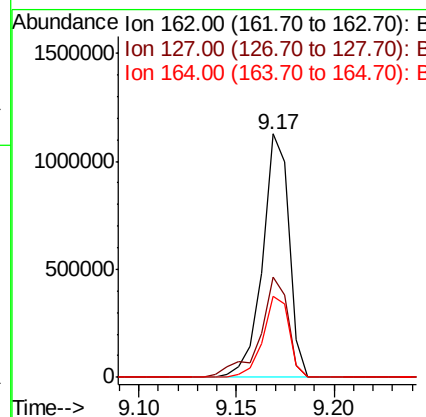
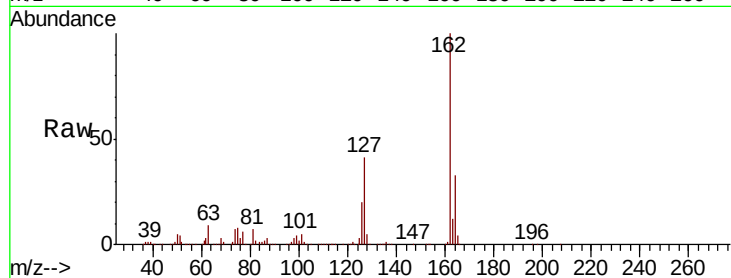
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	162	Resp:	1057634
Ion	Ratio	Lower	Upper
162	100		
127	41.0	32.2	48.2
164	33.3	27.8	41.6

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#48

2-Nitroaniline

Concen: 18.590 ng

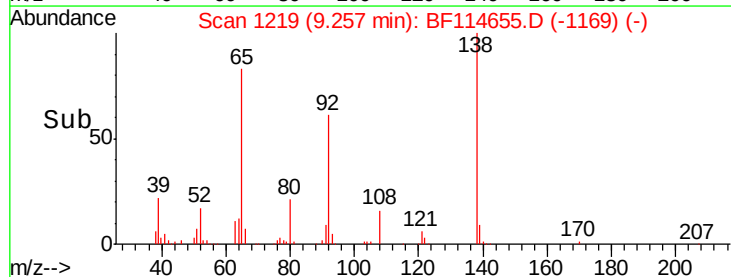
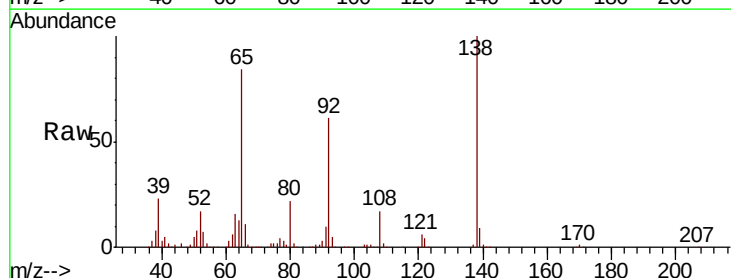
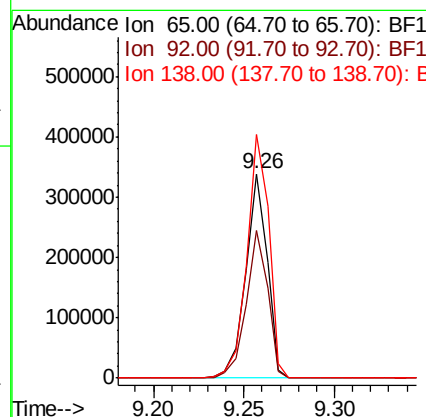
RT: 9.26 min Scan# 1219

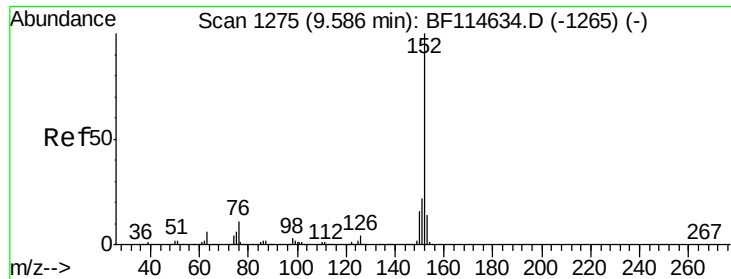
Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	65	Resp:	279270
Ion	Ratio	Lower	Upper
65	100		
92	72.5	57.1	85.7
138	119.1	95.8	143.6





#49

Acenaphthylene

Concen: 21.932 ng

RT: 9.58 min Scan# 1274

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

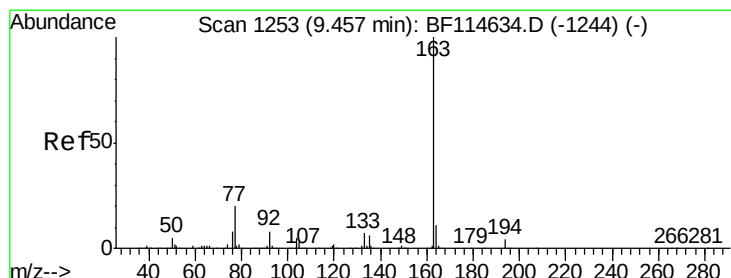
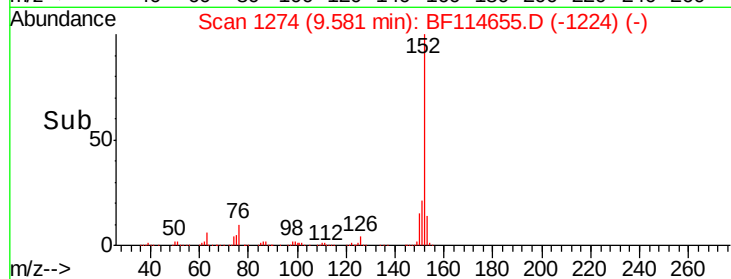
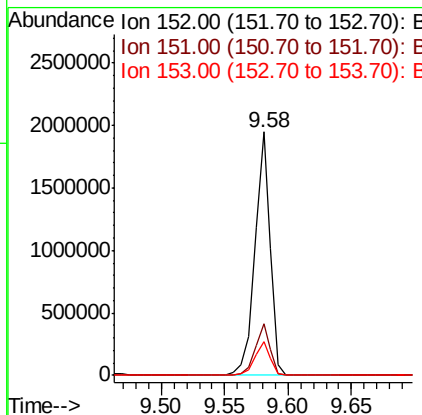
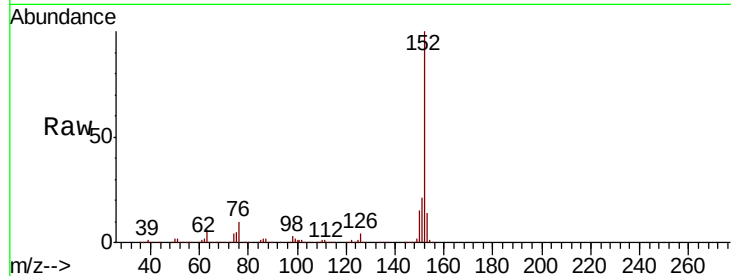
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	152	Resp:	1649466
Ion Ratio	Lower	Upper	
152	100		
151	21.3	17.5	26.3
153	14.1	11.6	17.4

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#50

Dimethylphthalate

Concen: 20.915 ng

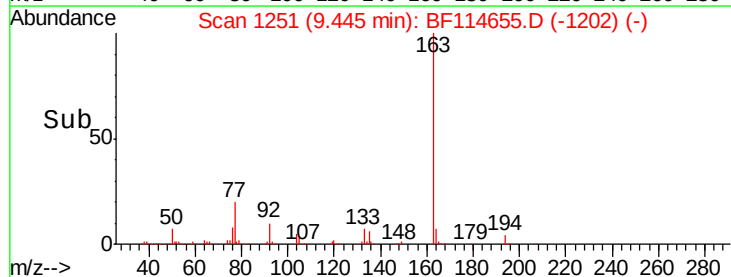
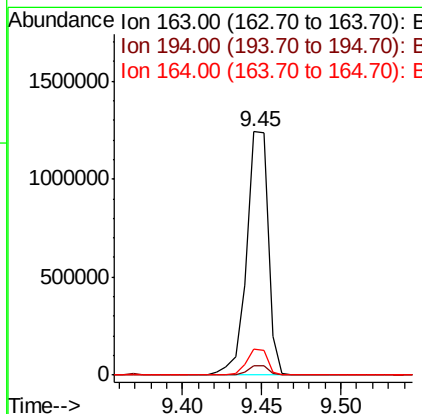
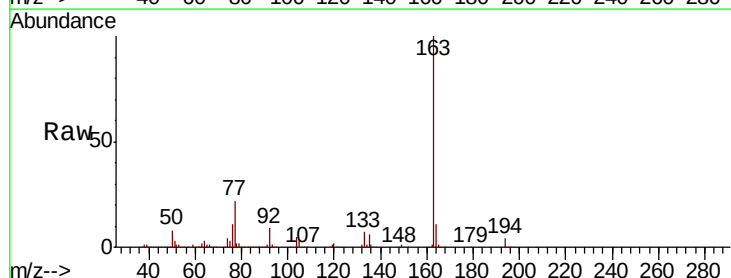
RT: 9.45 min Scan# 1251

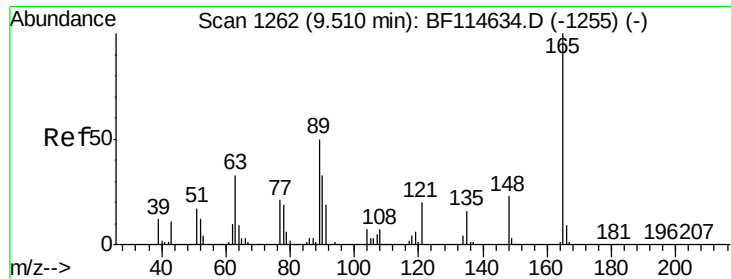
Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	163	Resp:	1165130
Ion Ratio	Lower	Upper	
163	100		
194	3.9	3.4	5.0
164	10.9	8.6	13.0





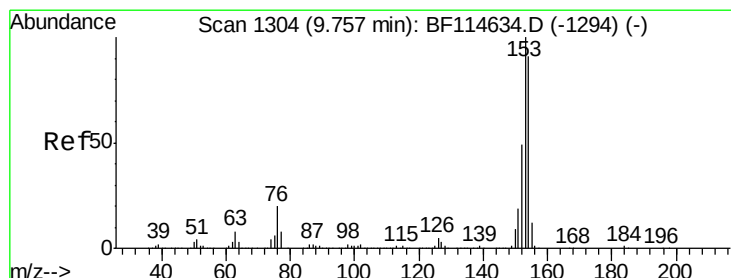
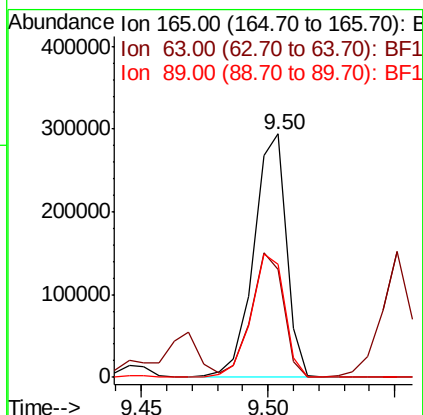
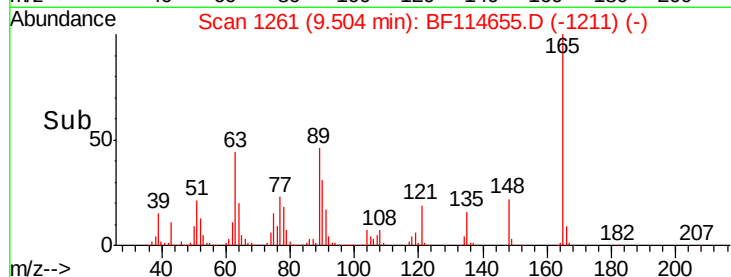
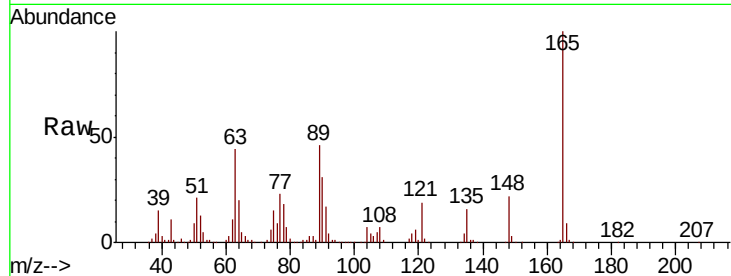
#51
 2,6-Dinitrotoluene
 Concen: 20.528 ng
 RT: 9.50 min Scan# 1261
 Delta R.T. -0.01 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion:	165	Resp:	265733
Ion Ratio	Lower	Upper	
165	100		
63	44.3	36.6	54.8
89	46.2	40.2	60.4

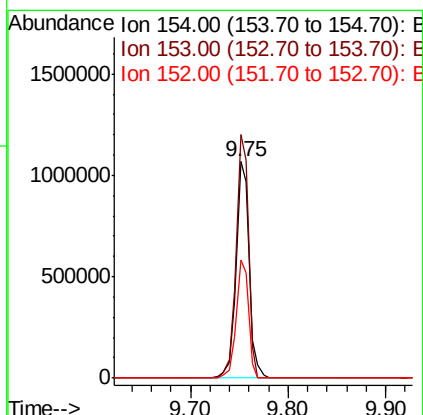
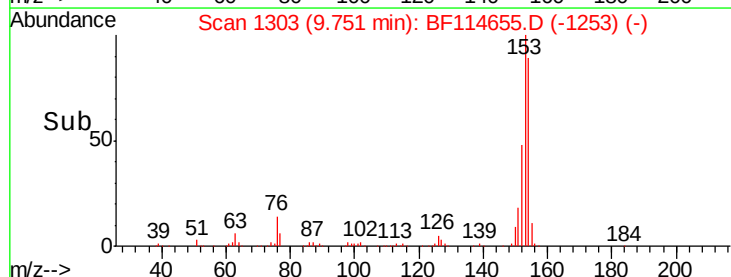
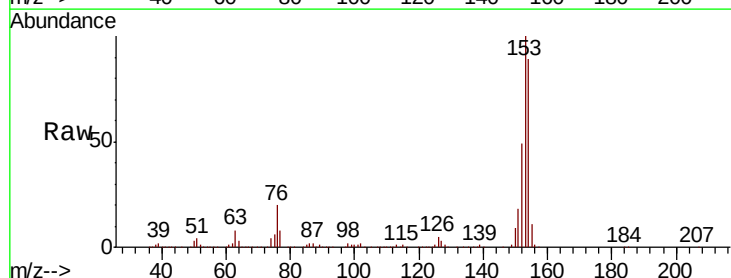
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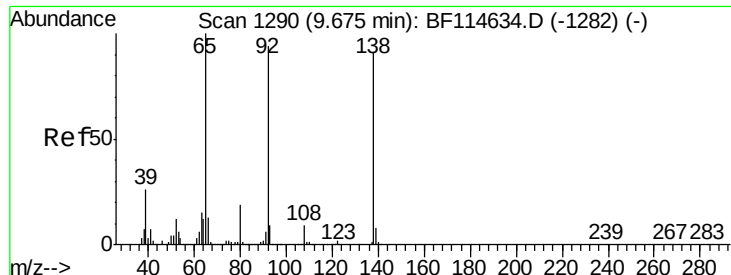
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#52
 Acenaphthene
 Concen: 21.495 ng
 RT: 9.75 min Scan# 1303
 Delta R.T. -0.01 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Tgt Ion:	154	Resp:	991426
Ion Ratio	Lower	Upper	
154	100		
153	112.4	88.4	132.6
152	54.7	43.4	65.0





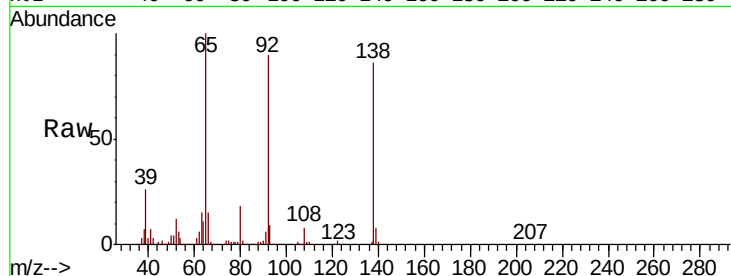
#53
3-Nitroaniline
Concen: 18.888 ng
RT: 9.66 min Scan# 1288
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
138	100	299232		
108	9.9	8.3	12.5	
92	105.1	83.1	124.7	

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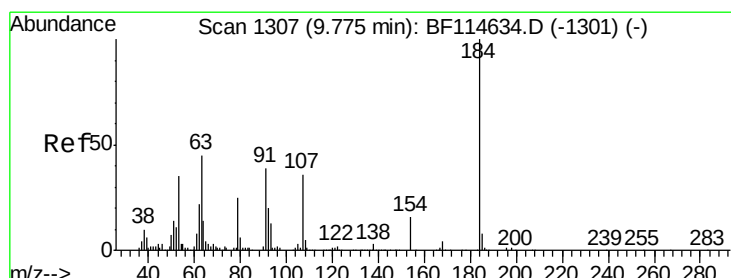
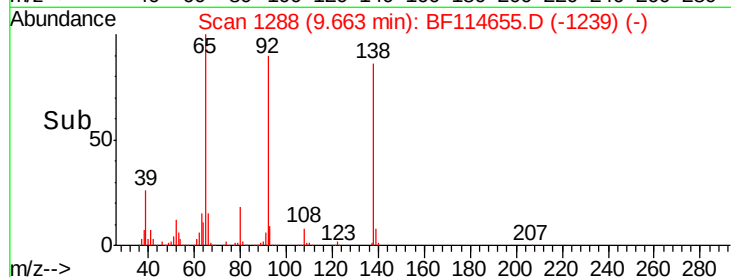
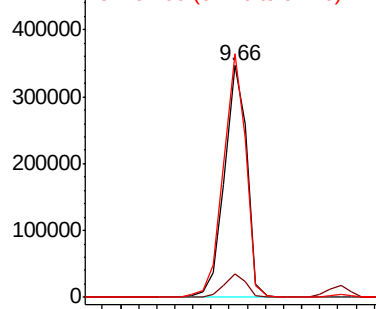


Abundance

Ion 138.00 (137.70 to 138.70): E

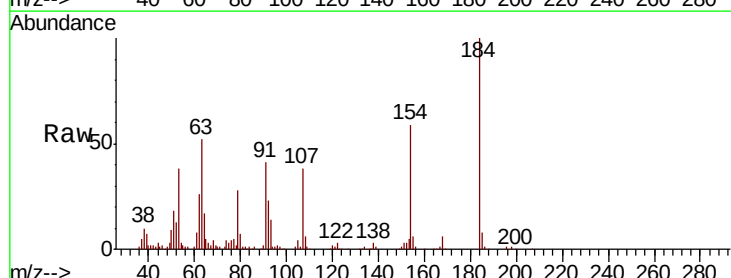
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54
2,4-Dinitrophenol
Concen: 17.051 ng
RT: 9.77 min Scan# 1306
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
184	100	87061		
63	52.2	38.8	58.2	
154	58.6	43.7	65.5	

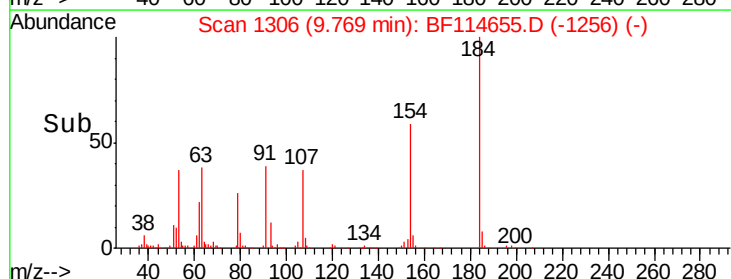
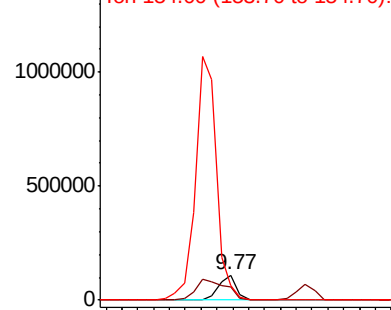


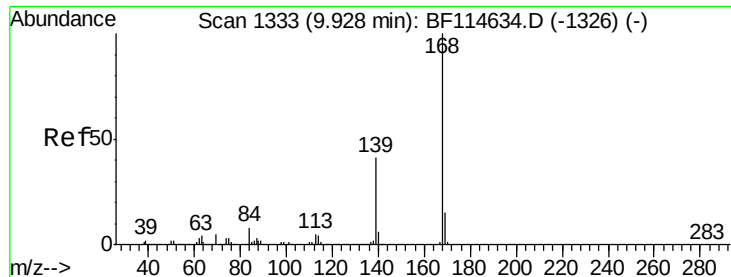
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





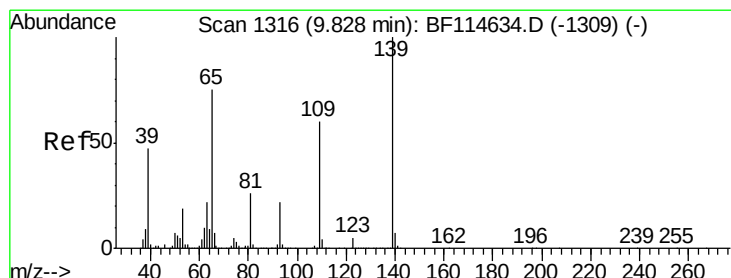
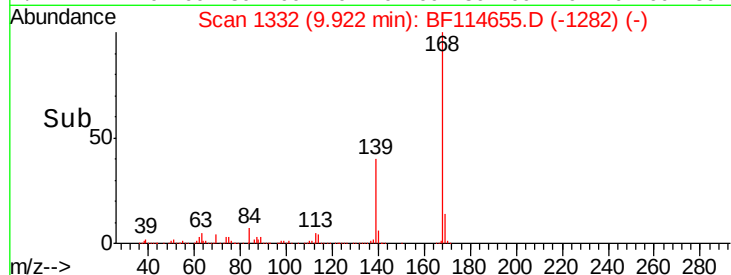
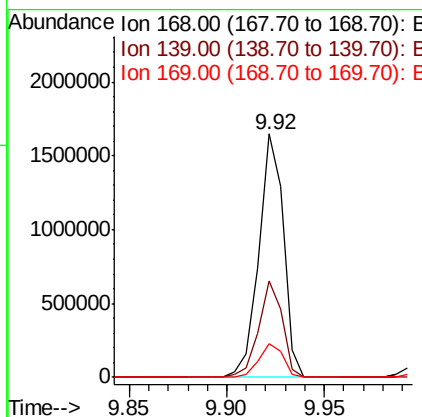
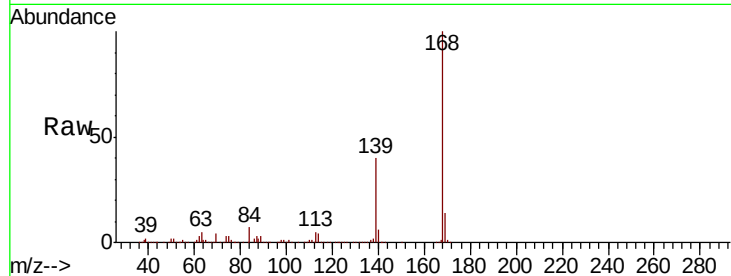
#55
Dibenzofuran
Concen: 21.905 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.8	32.6	48.8
169	14.1	11.8	17.8

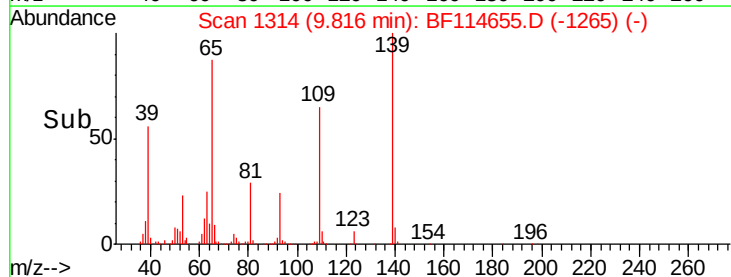
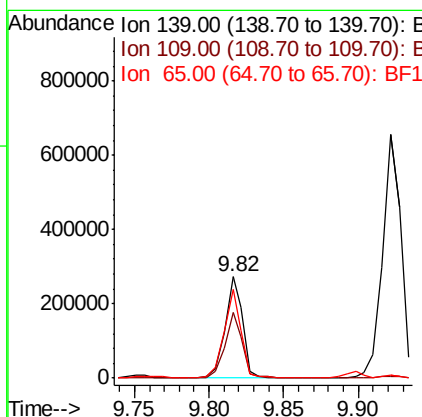
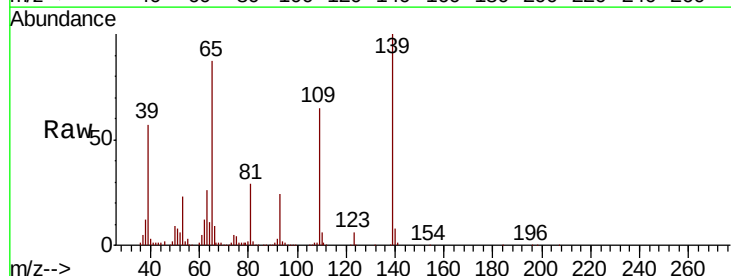
Manual Integrations
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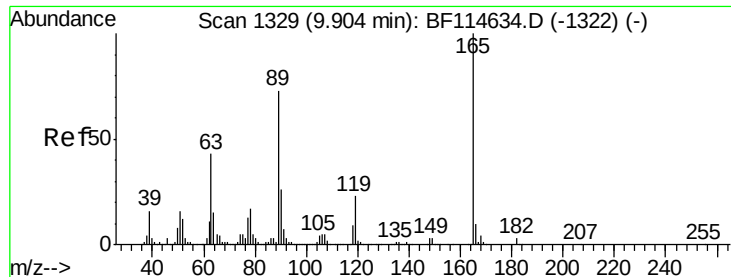
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#56
4-Nitrophenol
Concen: 19.687 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
139	100		
109	65.2	40.4	80.4
65	87.4	54.7	94.7





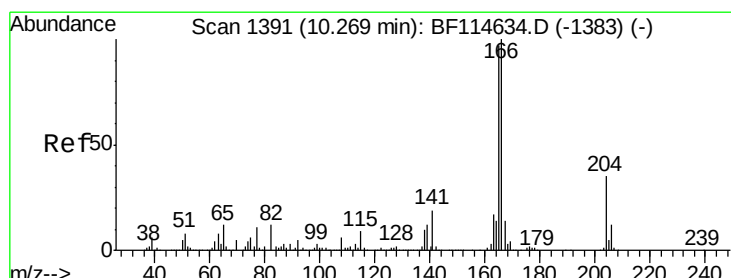
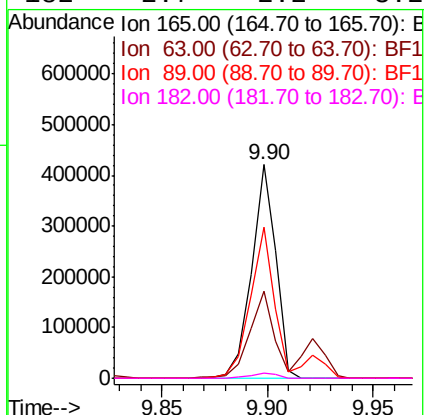
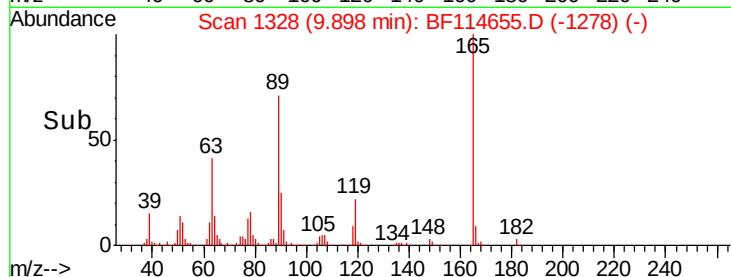
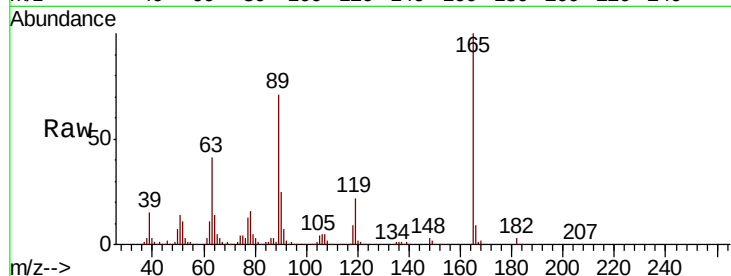
#57
2,4-Dinitrotoluene
Concen: 20.250 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion:	165	Resp:	336419
Ion Ratio	Lower	Upper	
165	100		
63	41.0	34.8	52.2
89	70.7	58.5	87.7
182	2.7	2.2	3.2

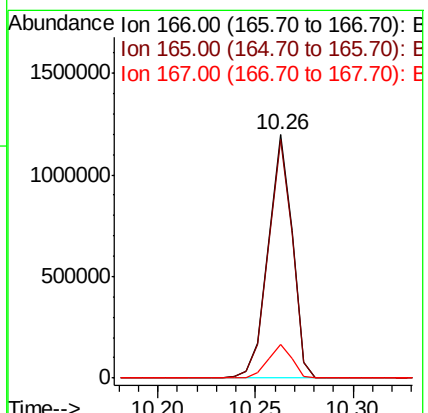
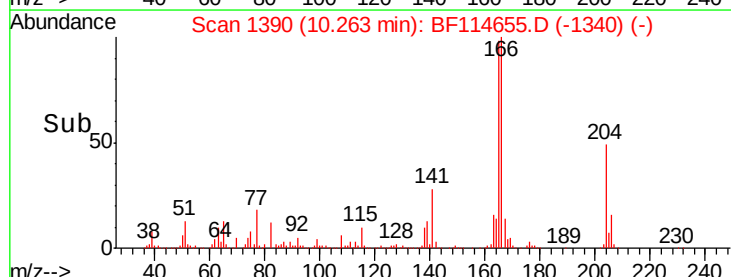
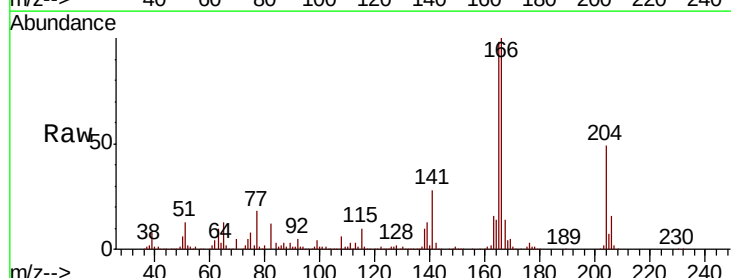
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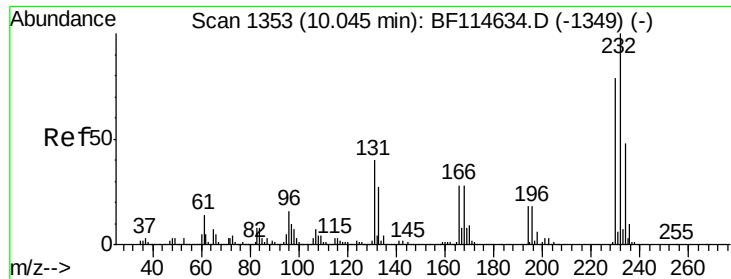
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#58
Fluorene
Concen: 23.172 ng
RT: 10.26 min Scan# 1390
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion:	166	Resp:	1027206
Ion Ratio	Lower	Upper	
166	100		
165	97.9	77.6	116.4
167	14.0	11.2	16.8





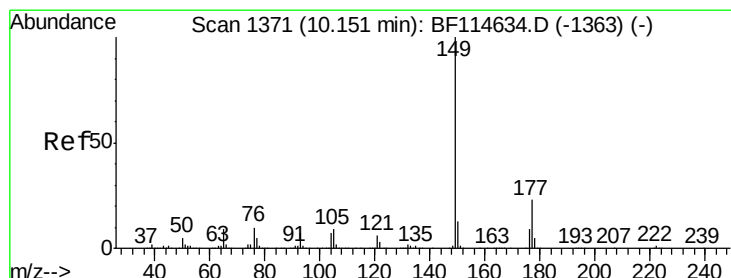
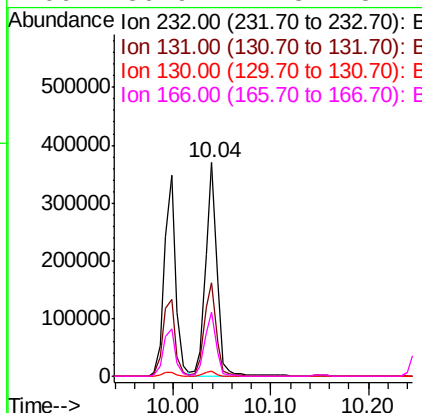
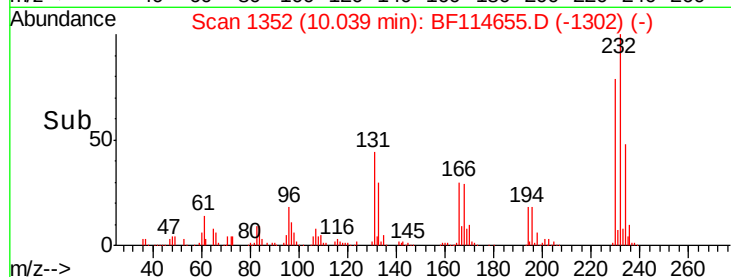
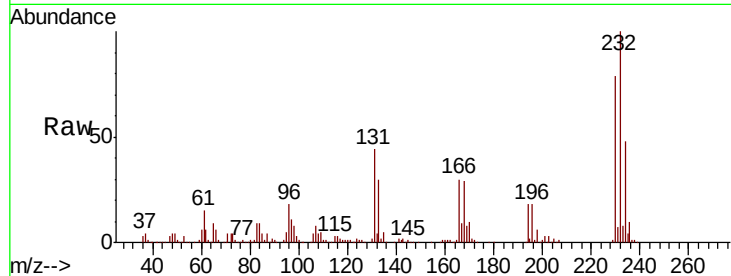
#59
2,3,4,6-Tetrachlorophenol
Concen: 21.785 ng
RT: 10.04 min Scan# 1352
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
232	100		
131	46.0	37.2	55.8
130	2.2	1.8	2.8
166	30.9	24.8	37.2

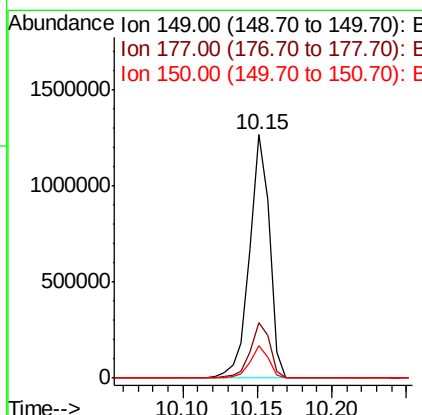
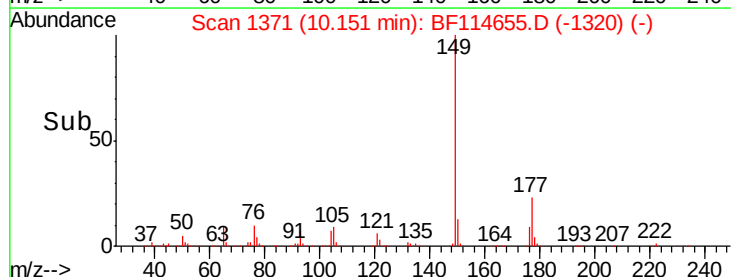
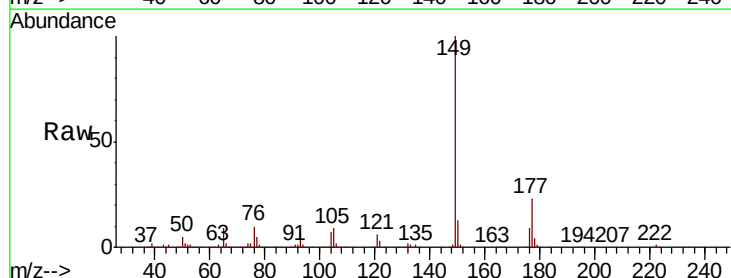
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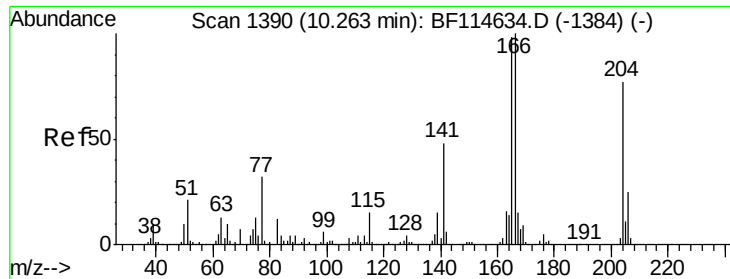
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#60
Diethylphthalate
Concen: 20.418 ng
RT: 10.15 min Scan# 1371
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
149	100		
177	22.6	18.6	28.0
150	13.2	10.6	15.8





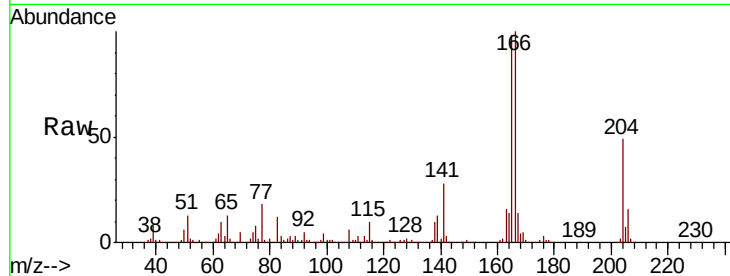
#61
4-Chlorophenyl-phenylether
Concen: 23.078 ng
RT: 10.26 min Scan# 1390
Delta R.T. 0.00 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.4	39.6
141	56.8	50.0	75.0

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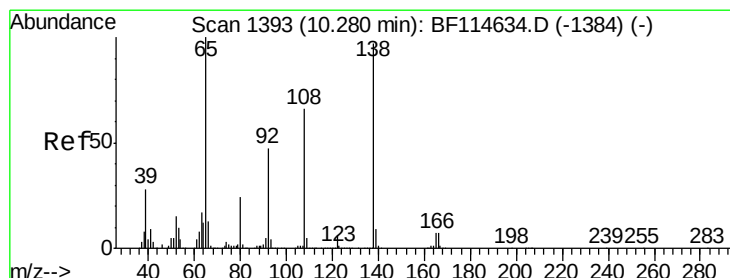
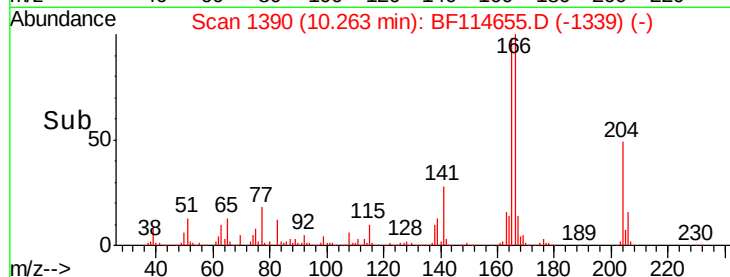
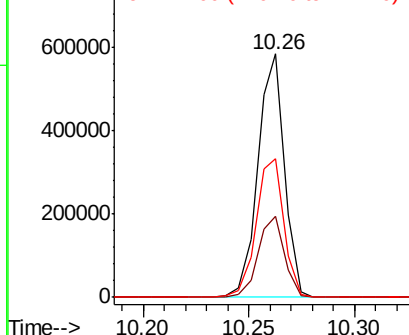


Abundance

Ion 204.00 (203.70 to 204.70): E

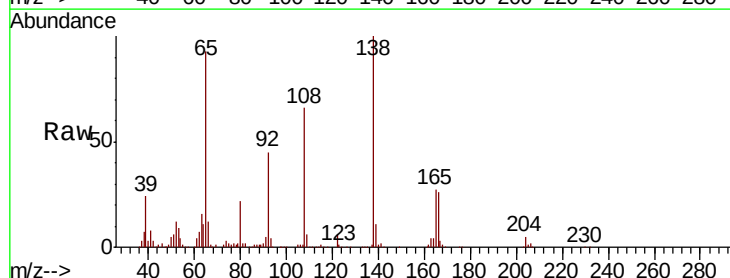
Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#62
4-Nitroaniline
Concen: 18.155 ng
RT: 10.27 min Scan# 1392
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
138	100		
92	44.7	28.0	68.0
108	65.6	48.4	88.4

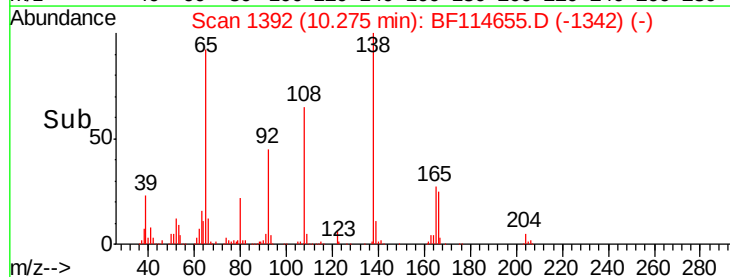
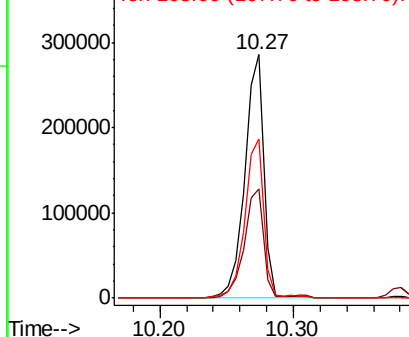


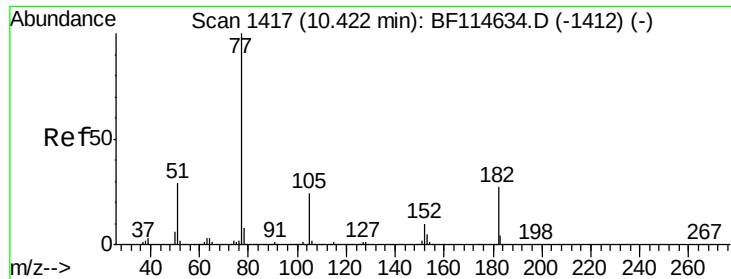
Abundance

Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E





#63

Azobenzene

Concen: 21.319 ng

RT: 10.42 min Scan# 1417

Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 77 Resp: 1113678

Ion Ratio Lower Upper

77 100

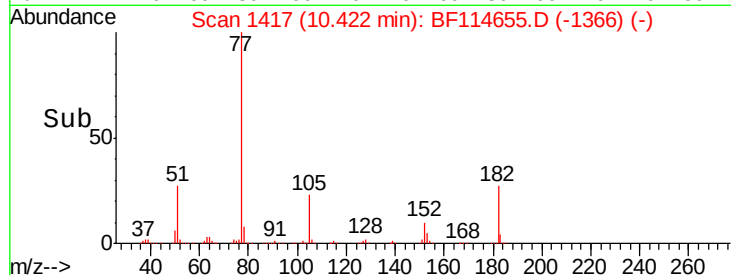
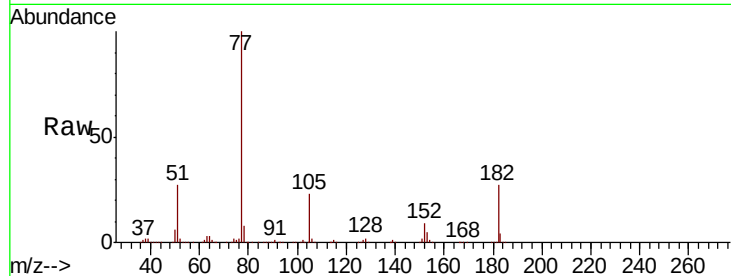
182 26.7 7.0 47.0

105 23.0 3.7 43.7

51 27.3 9.1 49.1

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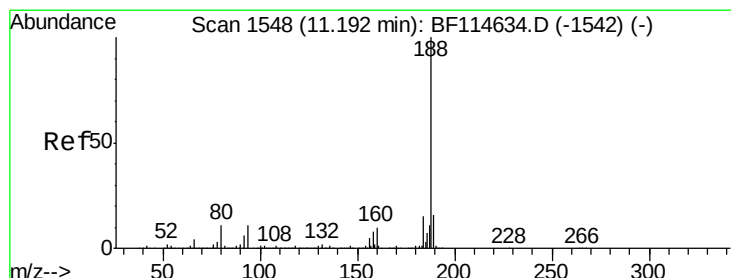
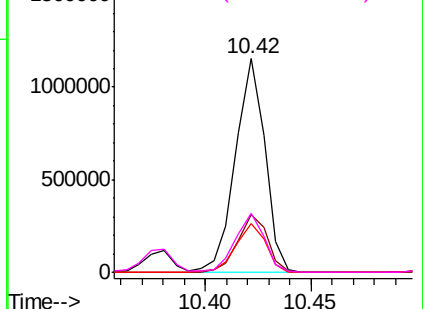


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1548

Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

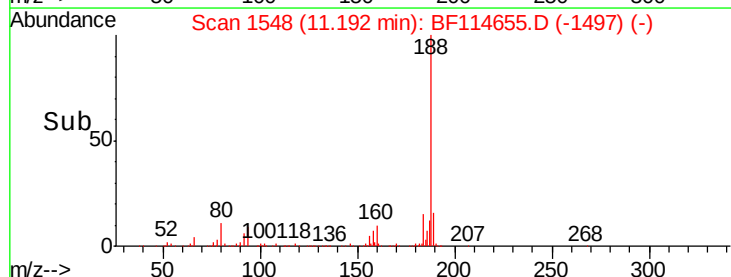
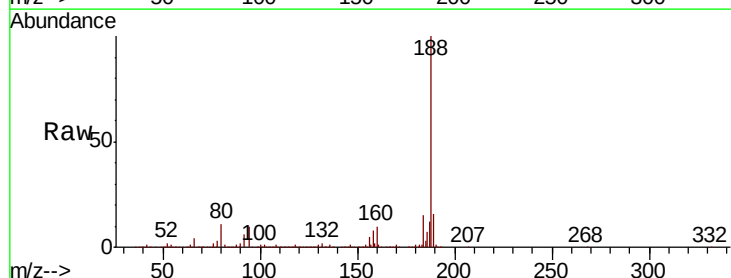
Tgt Ion: 188 Resp: 1480879

Ion Ratio Lower Upper

188 100

94 10.1 8.6 13.0

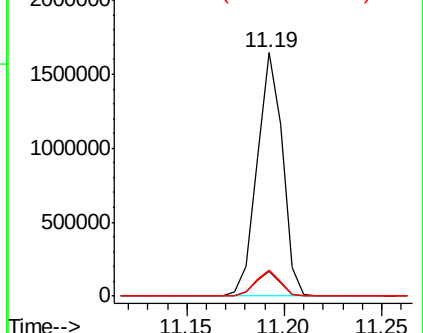
80 10.8 9.0 13.6

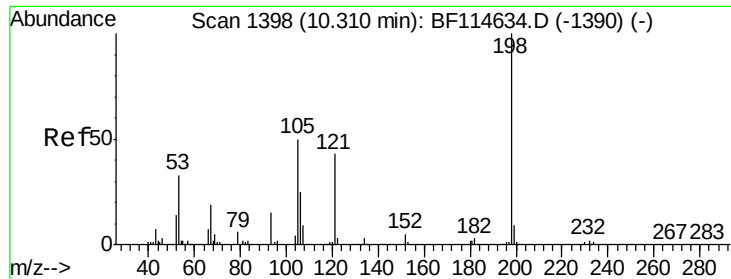


Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 20.015 ng

RT: 10.30 min Scan# 1397

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

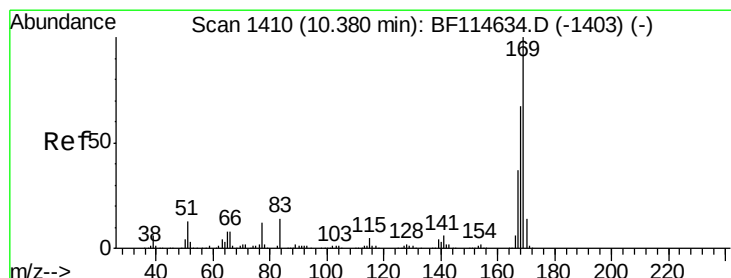
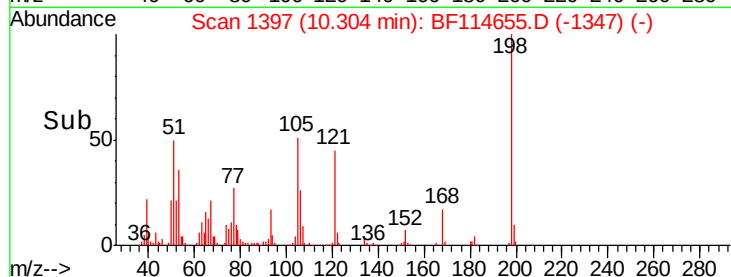
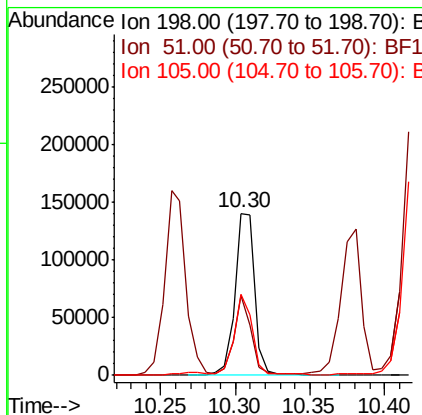
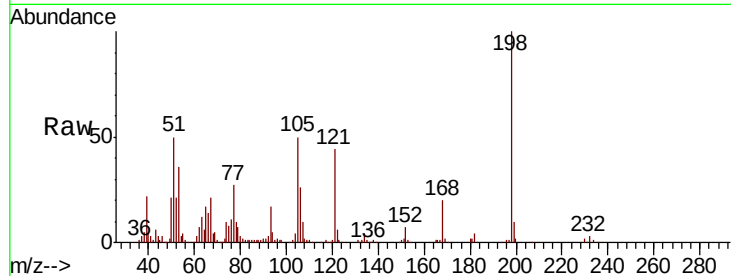
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	198	Resp:	131425
Ion Ratio	Lower	Upper	
198	100		
51	49.6	29.0	69.0
105	50.5	30.4	70.4

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#66

n-Nitrosodiphenylamine

Concen: 22.299 ng

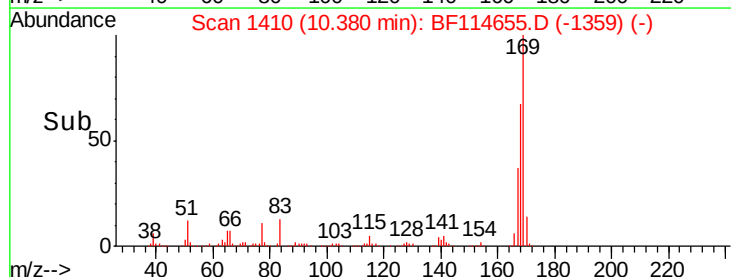
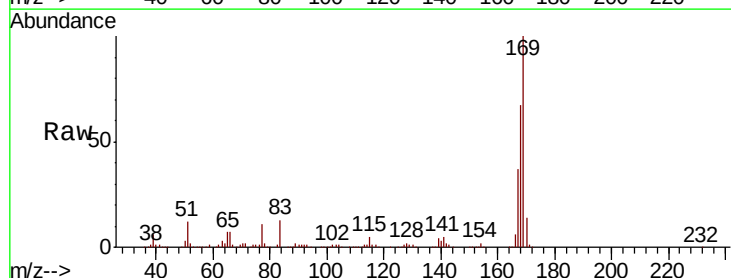
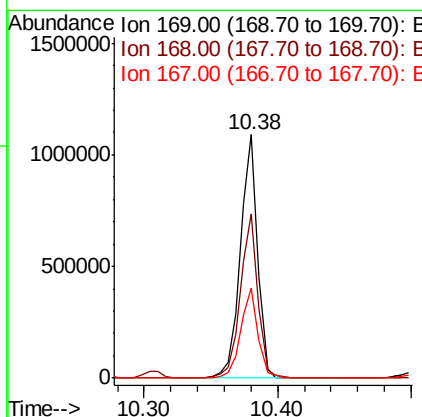
RT: 10.38 min Scan# 1410

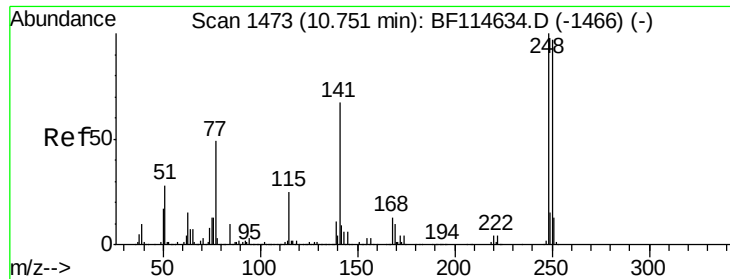
Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	169	Resp:	975642
Ion Ratio	Lower	Upper	
169	100		
168	67.3	53.8	80.8
167	36.8	29.8	44.6





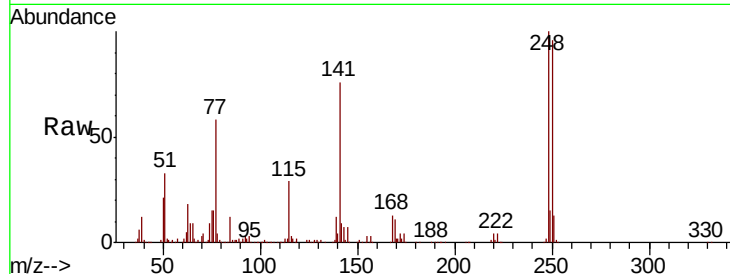
#67
4-Bromophenyl-phenylether
Concen: 21.009 ng
RT: 10.75 min Scan# 1472
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
248	100		
250	95.7	78.0	117.0
141	76.4	53.8	80.8

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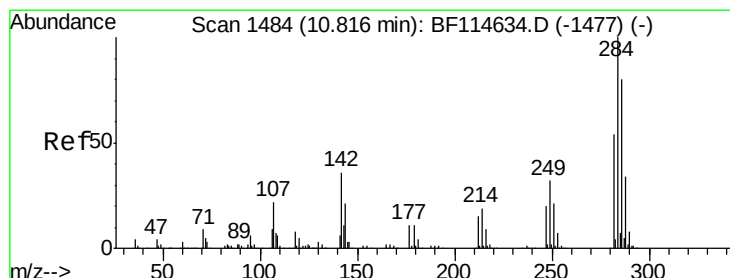
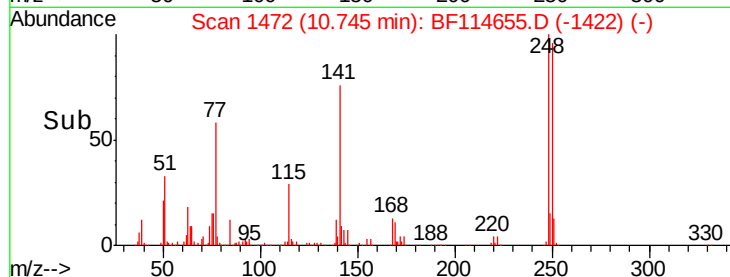
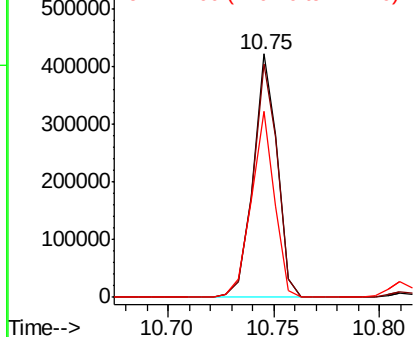


Abundance

Ion 248.00 (247.70 to 248.70): E

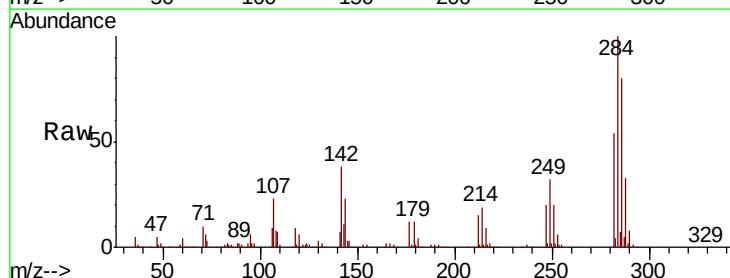
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#68
Hexachlorobenzene
Concen: 20.935 ng
RT: 10.81 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.5	28.9	43.3
249	32.2	25.8	38.6

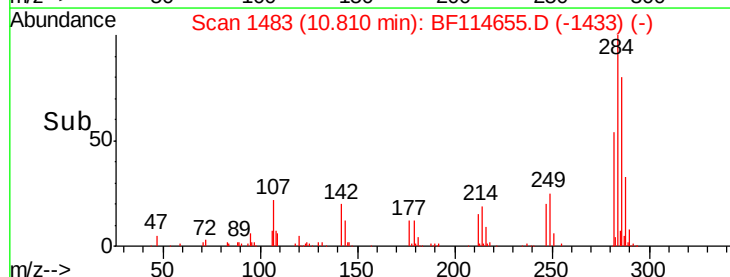
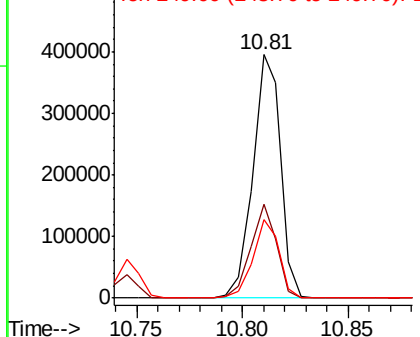


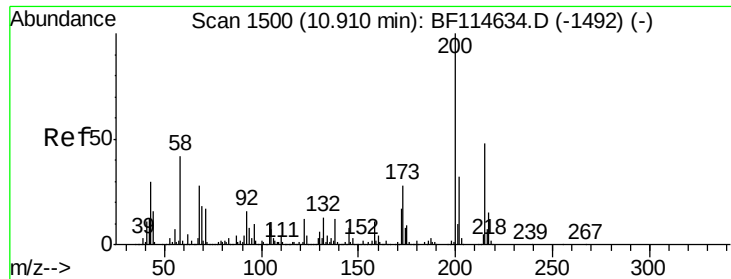
Abundance

Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





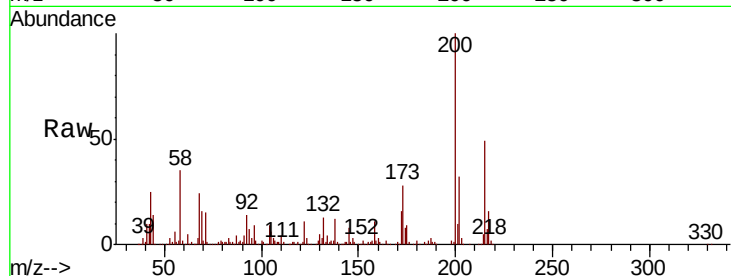
#69
Atrazine
Concen: 21.486 ng
RT: 10.90 min Scan# 1499
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
200	100	296194		
173	27.5	7.9	47.9	
215	49.2	27.8	67.8	

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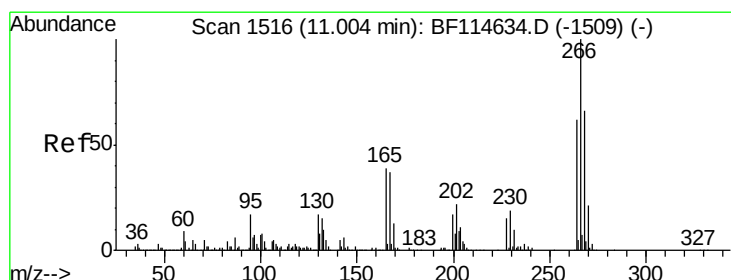
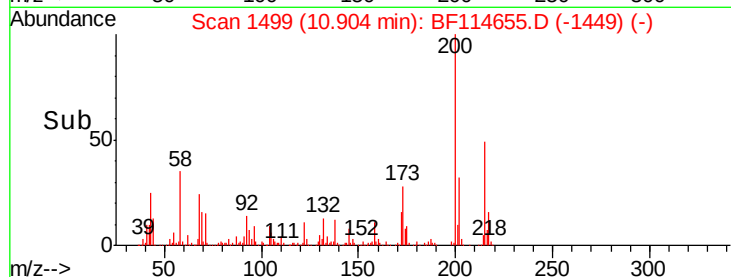
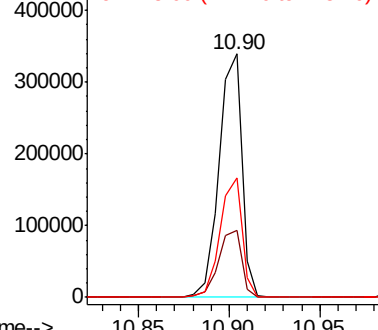


Abundance

Ion 200.00 (199.70 to 200.70): E

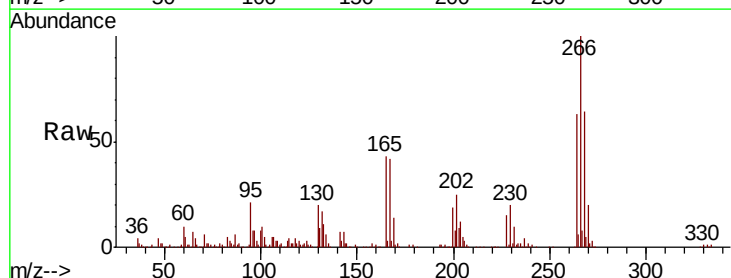
Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#70
Pentachlorophenol
Concen: 19.848 ng
RT: 11.00 min Scan# 1515
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	196795		
268	64.4	52.8	79.2	
264	62.7	49.9	74.9	

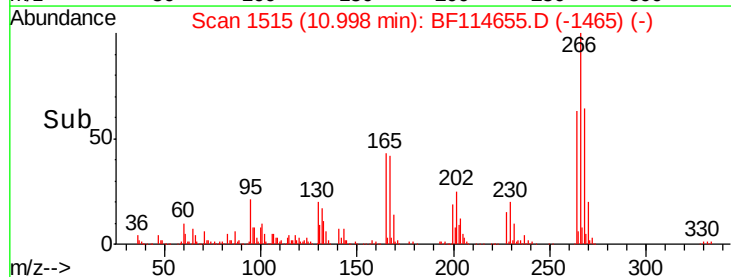
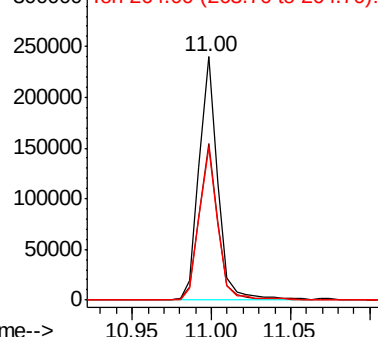


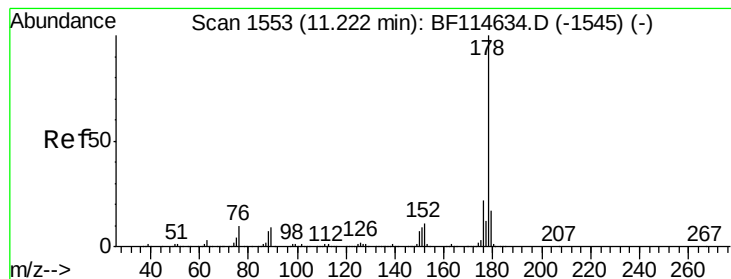
Abundance

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





#71

Phenanthrene

Concen: 21.078 ng

RT: 11.22 min Scan# 1552

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:178 Resp: 1592298

Ion Ratio Lower Upper

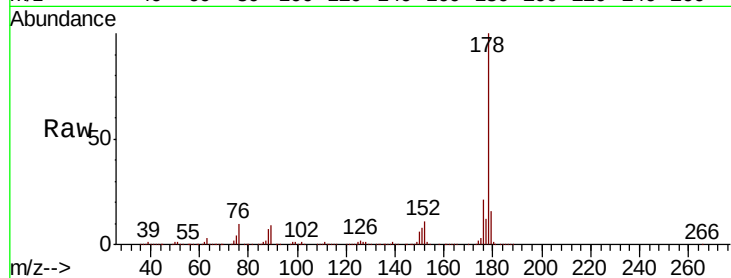
178 100

176 20.5 17.2 25.8

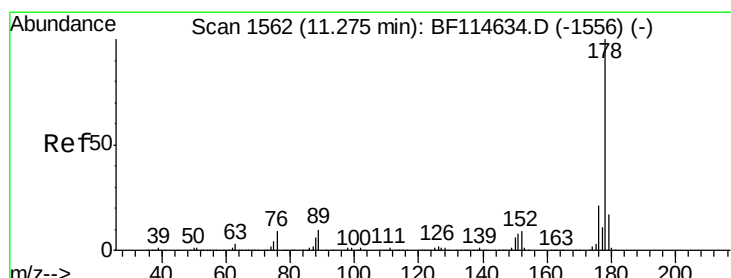
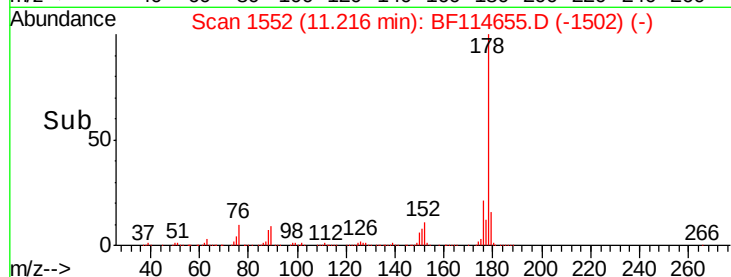
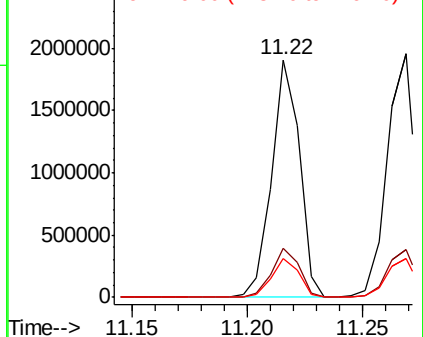
179 16.4 13.9 20.9

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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

Anthracene

Concen: 21.804 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:178 Resp: 1667013

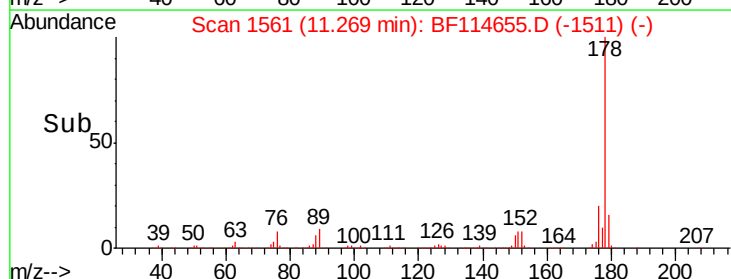
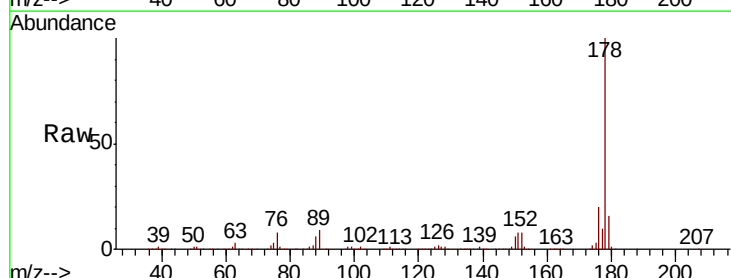
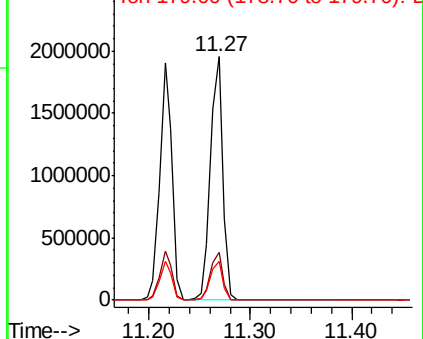
Ion Ratio Lower Upper

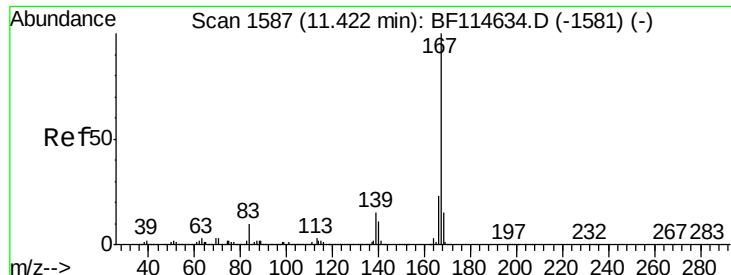
178 100

176 19.8 16.6 24.8

179 16.0 13.4 20.0

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





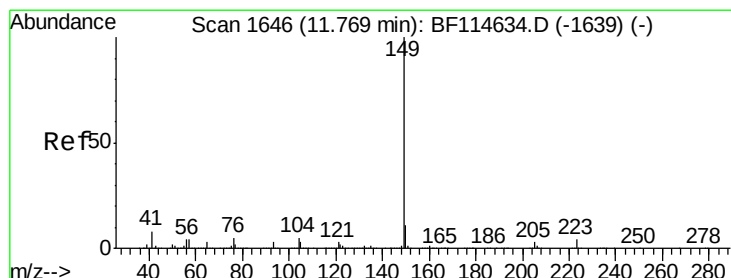
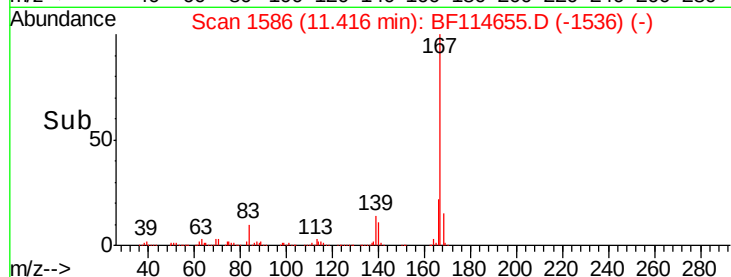
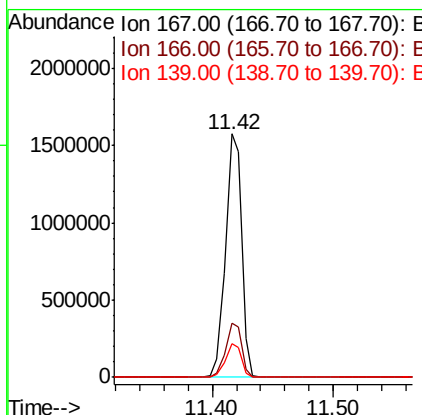
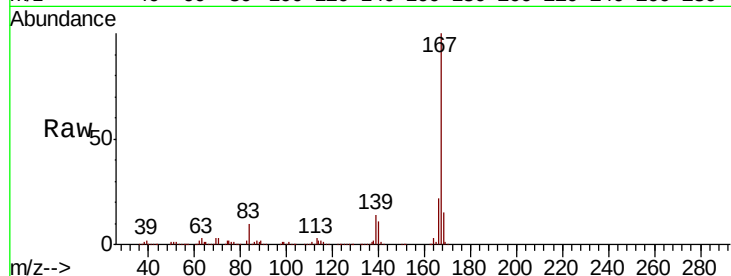
#73
 Carbazole
 Concen: 21.728 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Instrument :
 BNA_F
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.3	18.7	28.1
139	14.0	11.8	17.8

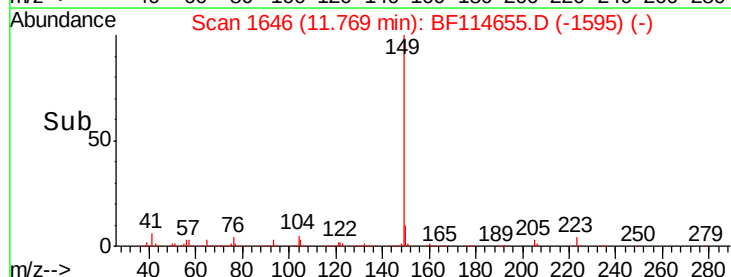
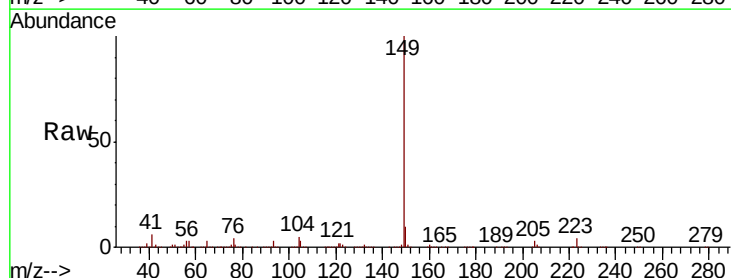
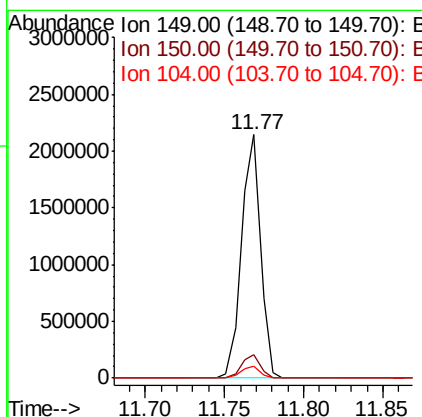
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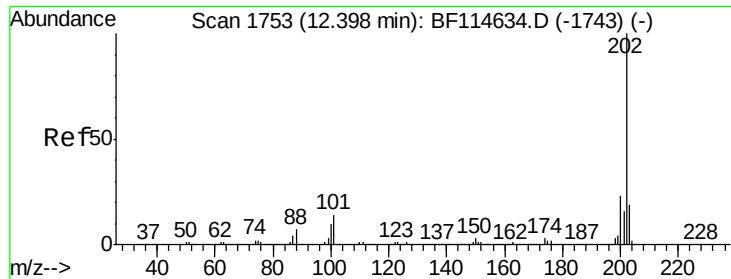
mohammad
 6/3/2019 8:46:59 AM



#74
 Di-n-butylphthalate
 Concen: 21.749 ng
 RT: 11.77 min Scan# 1646
 Delta R.T. 0.00 min
 Lab File: BF114655.D
 Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.6	8.6	12.8
104	4.7	4.3	6.5





#75

Fluoranthene

Concen: 20.677 ng

RT: 12.40 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

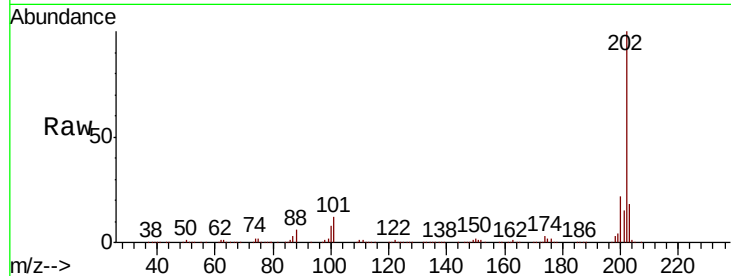
ClientSampleId :

LOQ-SOIL-02-QT2-2019

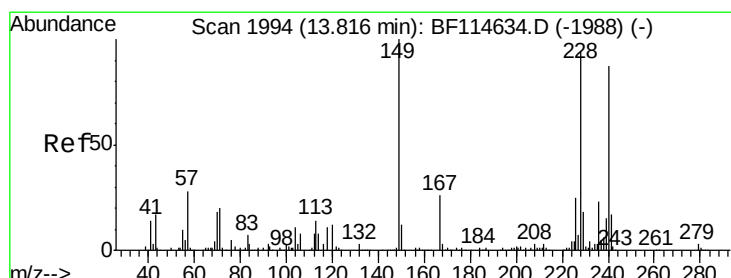
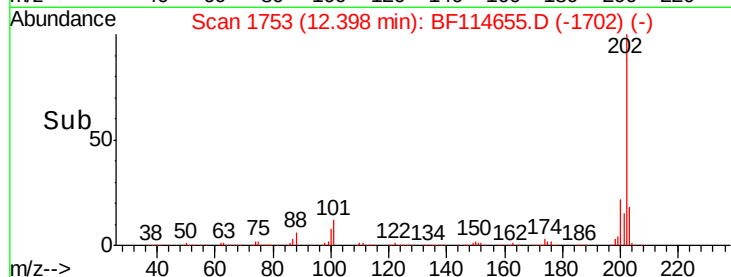
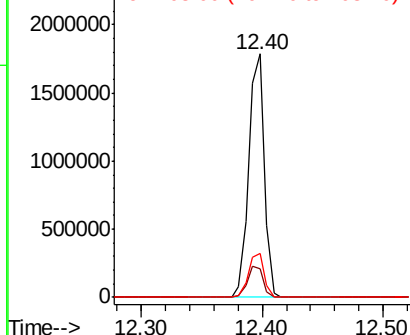
Tot Ion:	202	Resp:	1617373
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	33.9
203	18.0	0.0	39.1

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



#76

Chrysene-d12

Concen: 20.000 ng

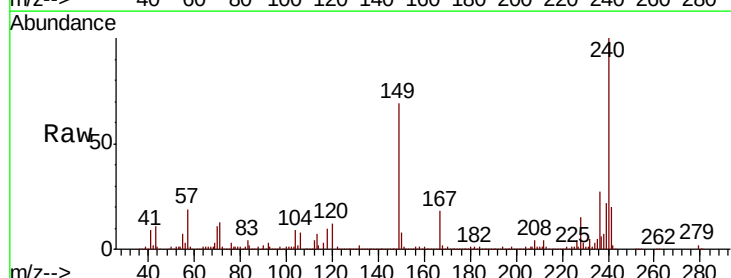
RT: 13.82 min Scan# 1994

Delta R.T. 0.00 min

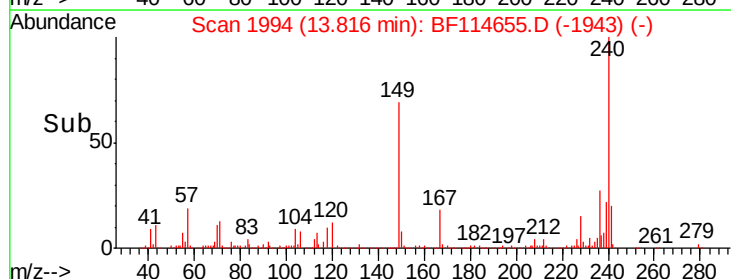
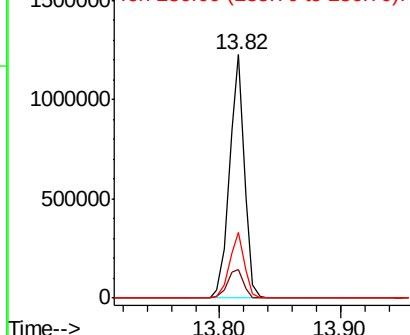
Lab File: BF114655.D

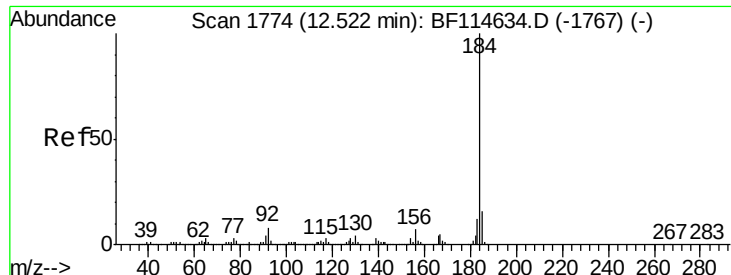
Acq: 30 May 2019 12:35

Tgt Ion:	240	Resp:	1045384
Ion	Ratio	Lower	Upper
240	100		
120	11.6	11.2	16.8
236	27.2	21.2	31.8



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 21.159 ng

RT: 12.52 min Scan# 1773

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

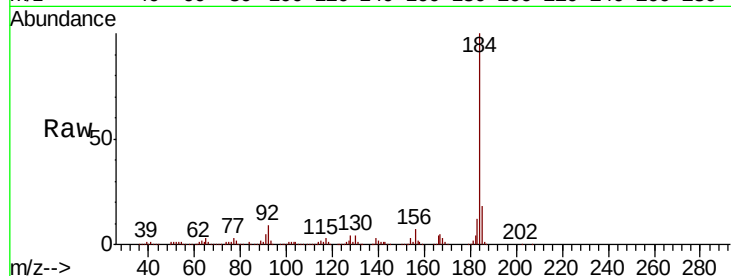
ClientSampleId :

LOQ-SOIL-02-QT2-2019

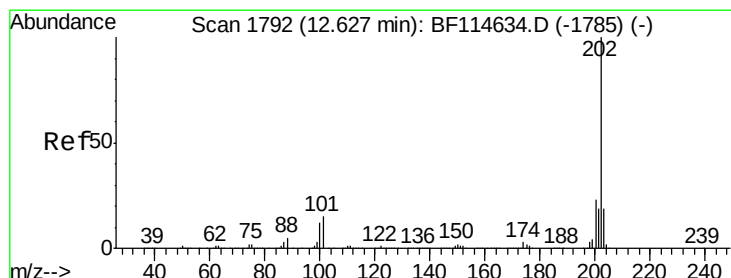
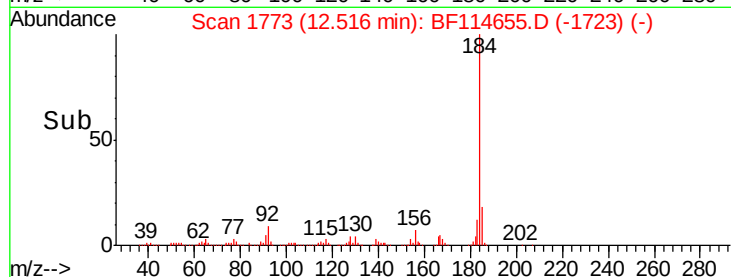
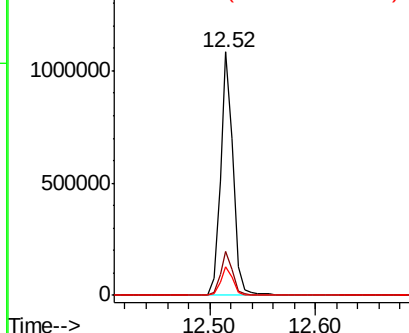
Tot Ion:	184	Resp:	910835
Ion Ratio	Lower	Upper	
184	100		
185	18.1	12.6	18.8
183	11.6	9.4	14.2

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Abundance Ion 184.00 (183.70 to 184.70): E
Ion 185.00 (184.70 to 185.70): E
Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 18.603 ng

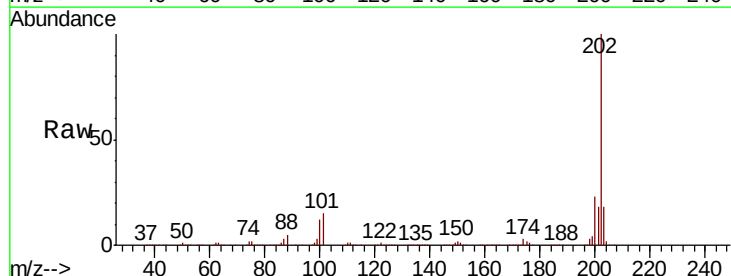
RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

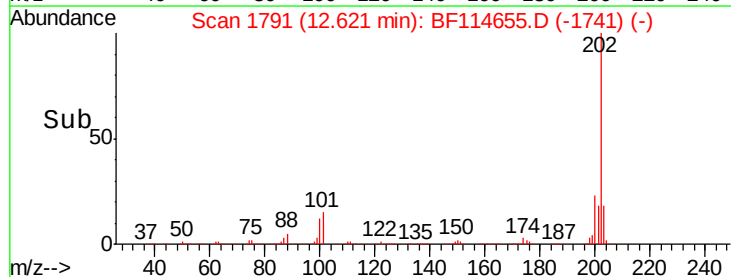
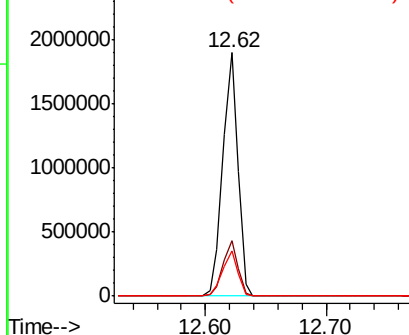
Lab File: BF114655.D

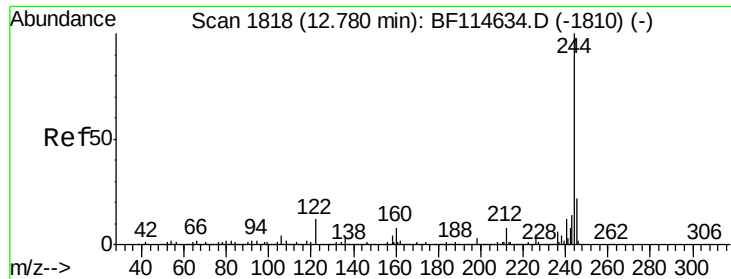
Acq: 30 May 2019 12:35

Tgt Ion:	202	Resp:	1645060
Ion Ratio	Lower	Upper	
202	100		
200	22.7	18.6	28.0
203	18.3	15.4	23.2



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





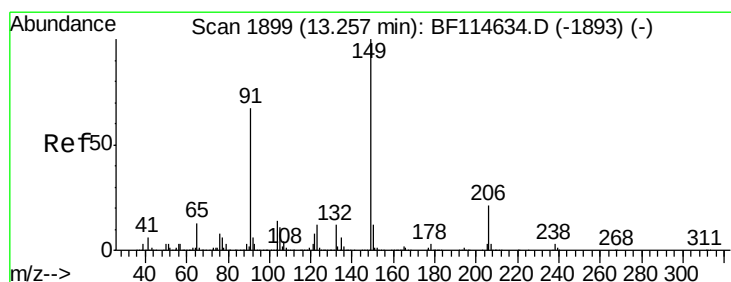
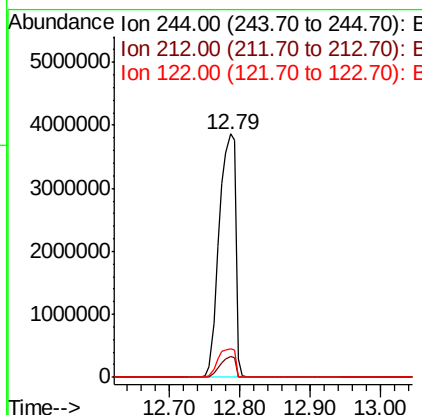
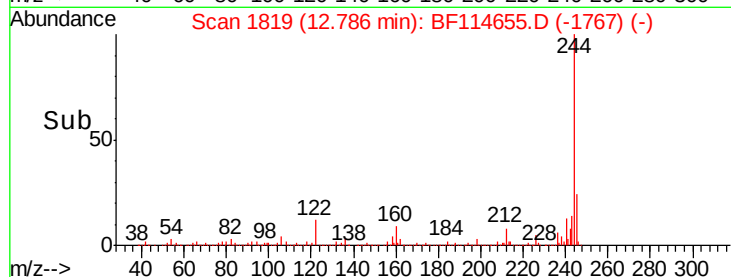
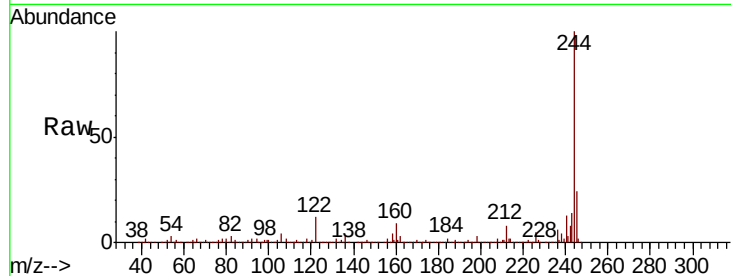
#79
Terphenyl-d14
Concen: 112.915 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.4	6.1	9.1
122	11.7	9.8	14.8

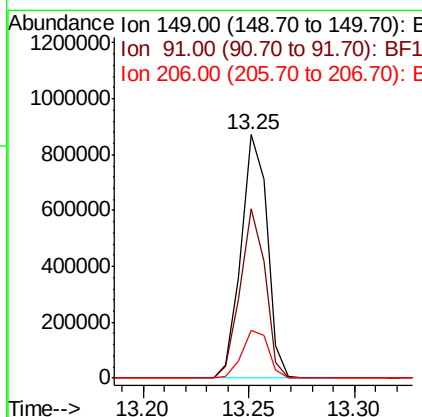
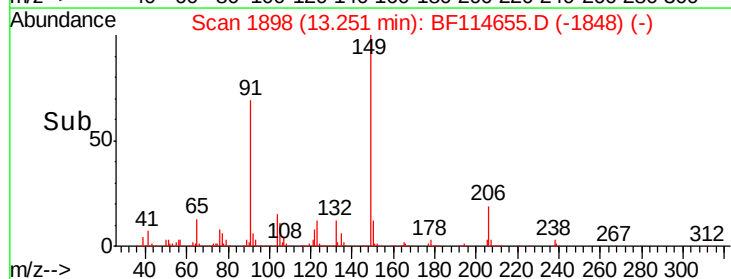
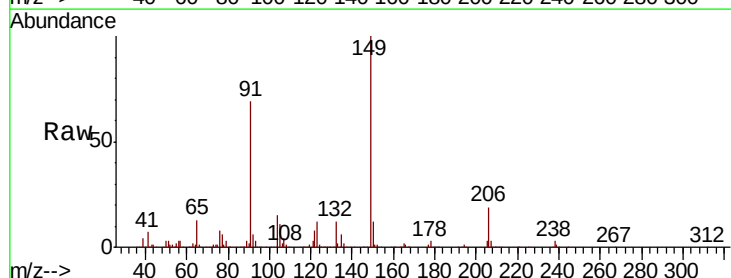
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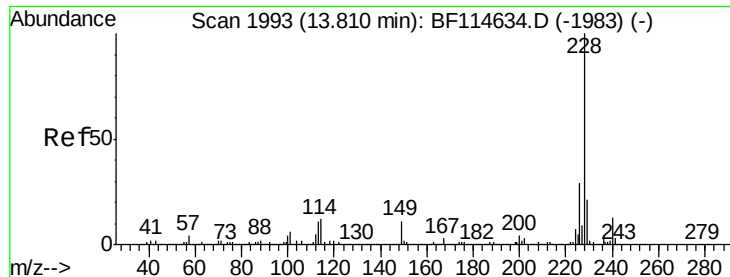
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#80
Butylbenzylphthalate
Concen: 16.755 ng
RT: 13.25 min Scan# 1898
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
149	100		
91	69.4	53.8	80.8
206	19.4	16.9	25.3





#81

Benzo(a)anthracene

Concen: 19.021 ng

RT: 13.80 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:228 Resp: 1528070

Ion Ratio Lower Upper

228 100

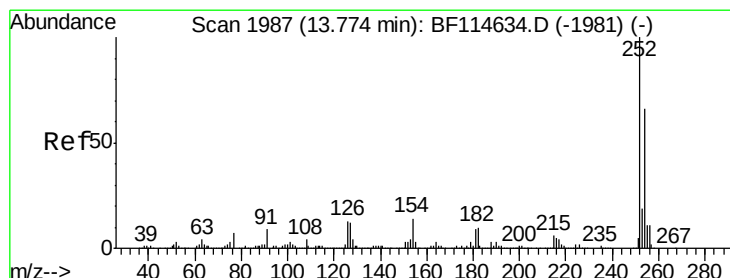
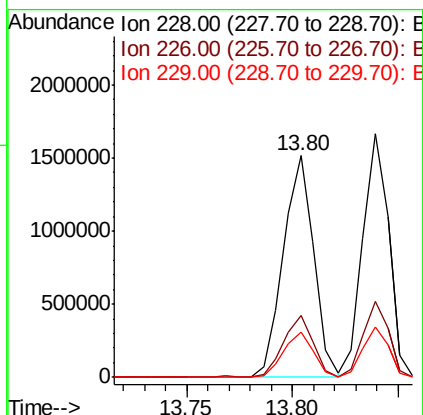
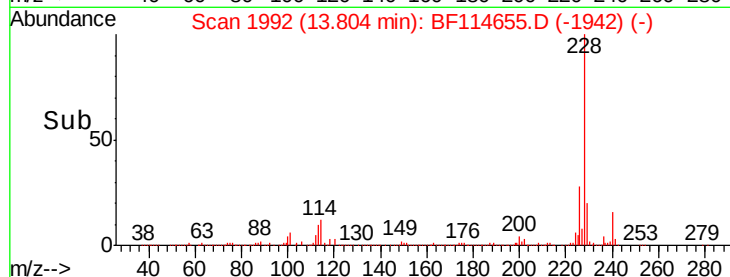
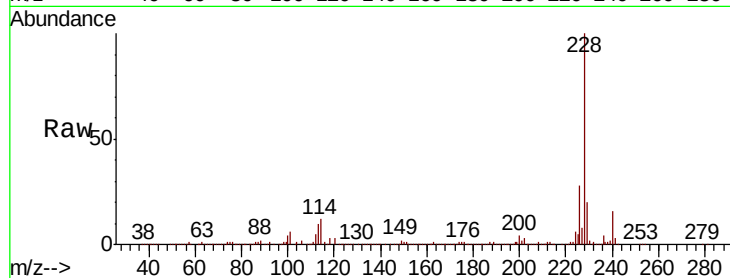
226 27.9 23.0 34.6

229 20.3 17.0 25.4

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#82

3,3'-Dichlorobenzidine

Concen: 18.687 ng

RT: 13.77 min Scan# 1986

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

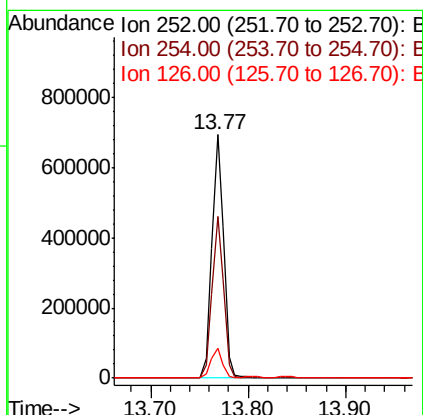
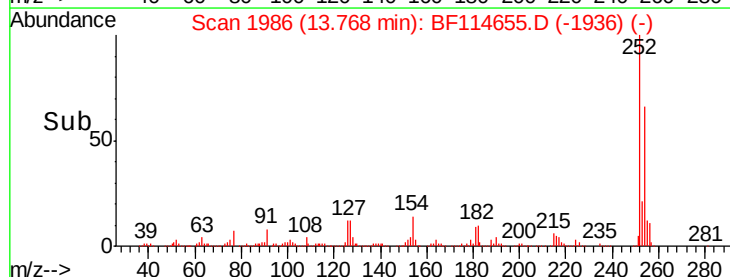
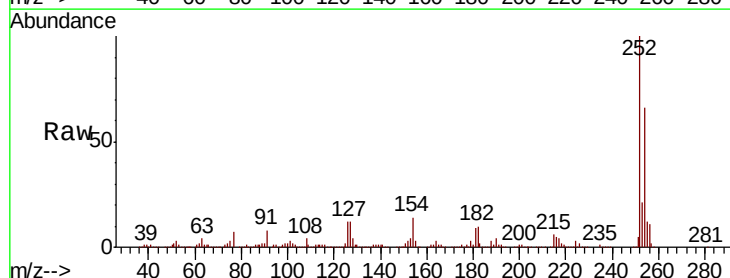
Tgt Ion:252 Resp: 579752

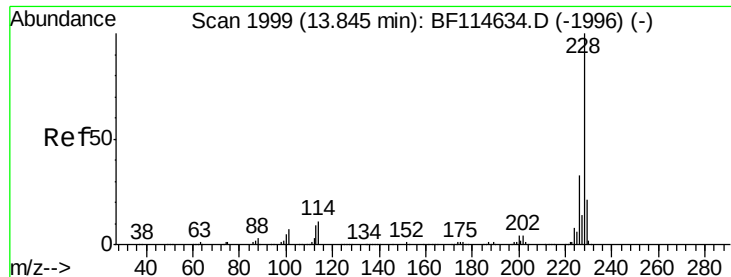
Ion Ratio Lower Upper

252 100

254 66.4 53.1 79.7

126 12.5 10.2 15.2





#83

Chrysene

Concen: 18.712 ng

RT: 13.84 min Scan# 1998

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:228 Resp: 1436199

Ion Ratio Lower Upper

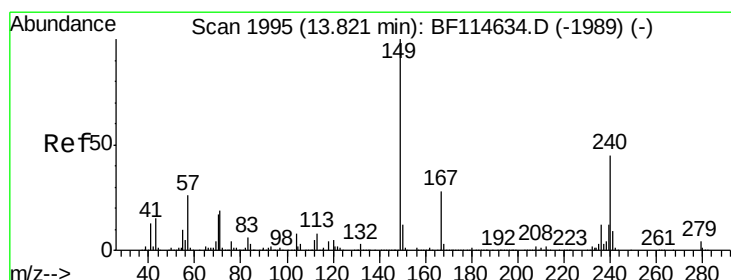
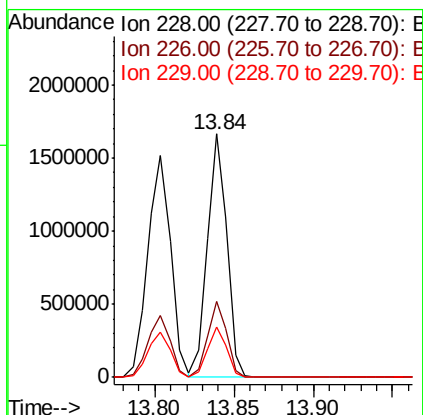
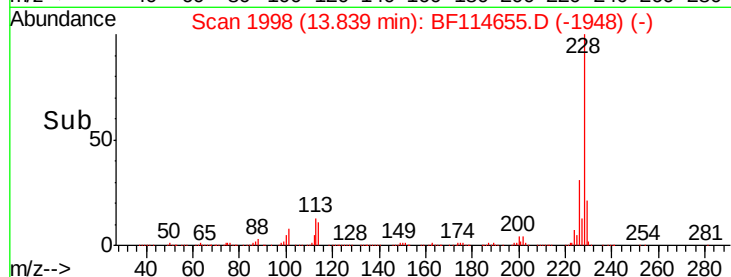
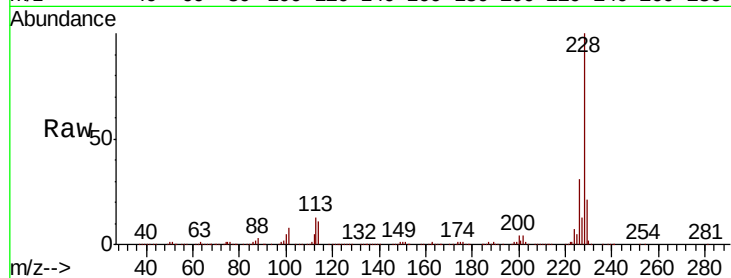
228 100

226 31.2 26.4 39.6

229 20.6 17.1 25.7

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#84

Bis(2-ethylhexyl)phthalate

Concen: 18.332 ng

RT: 13.82 min Scan# 1995

Delta R.T. 0.00 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

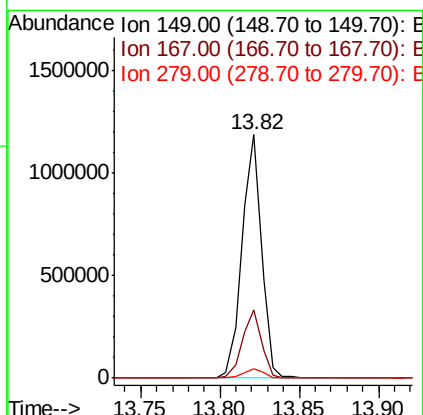
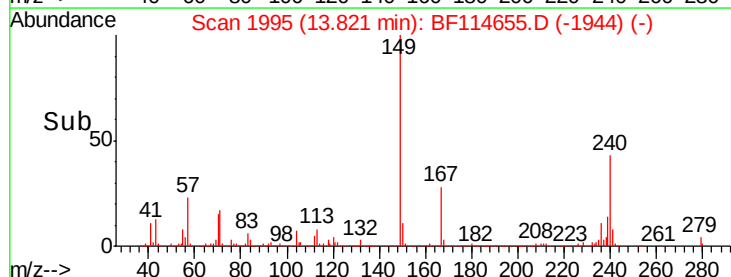
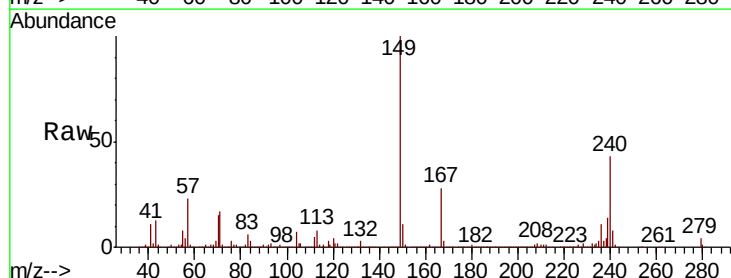
Tgt Ion:149 Resp: 1007250

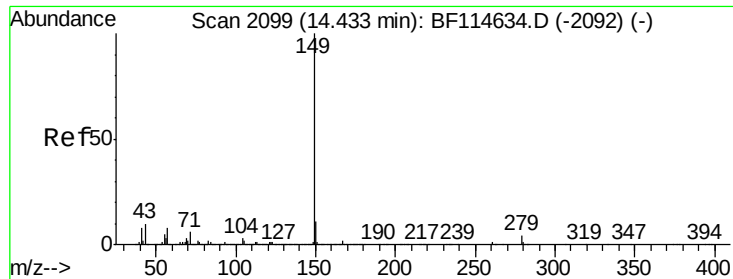
Ion Ratio Lower Upper

149 100

167 28.0 22.6 33.8

279 3.9 3.0 4.4





#85

Di-n-octyl phthalate

Concen: 18.087 ng

RT: 14.43 min Scan# 2098

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

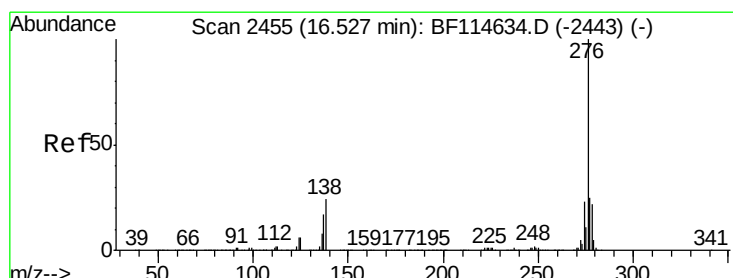
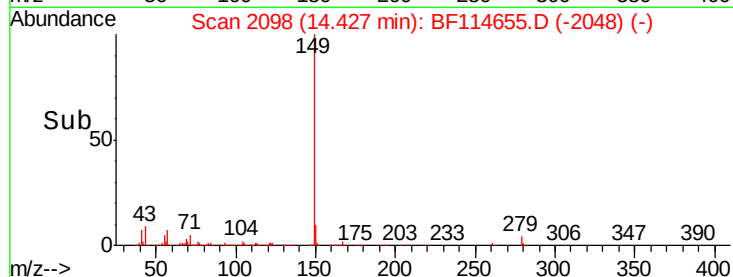
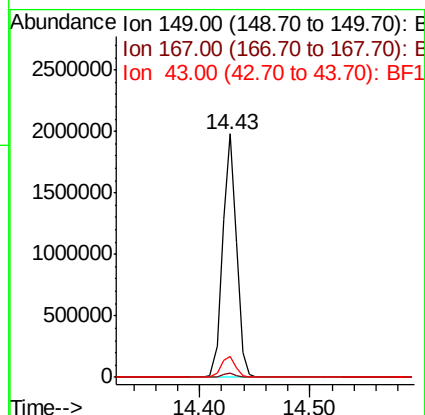
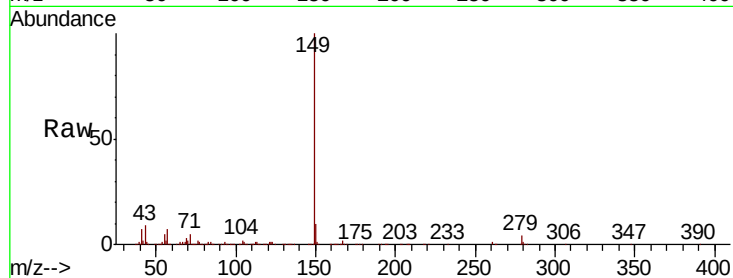
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	149	Resp:	1726625
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	8.9	8.0	12.0

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#86

Indeno(1,2,3-cd)pyrene

Concen: 18.299 ng

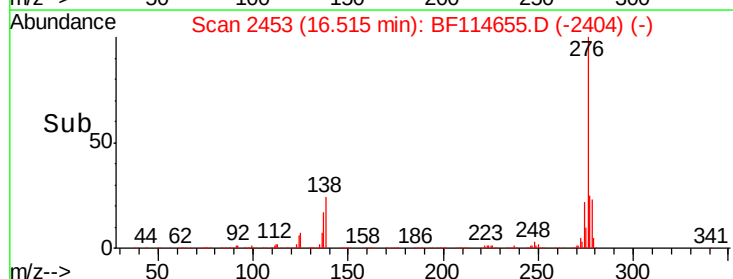
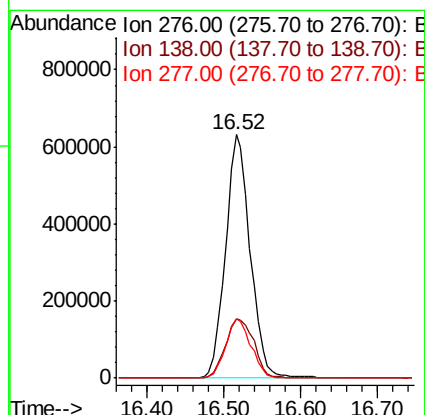
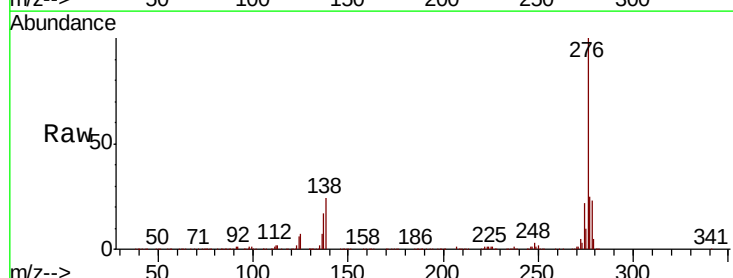
RT: 16.52 min Scan# 2453

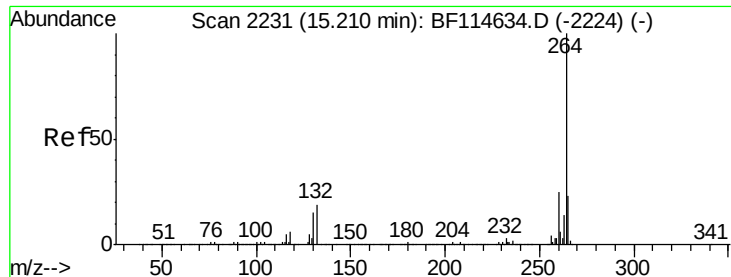
Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	276	Resp:	1406715
Ion	Ratio	Lower	Upper
276	100		
138	28.2	23.0	34.6
277	25.2	20.5	30.7





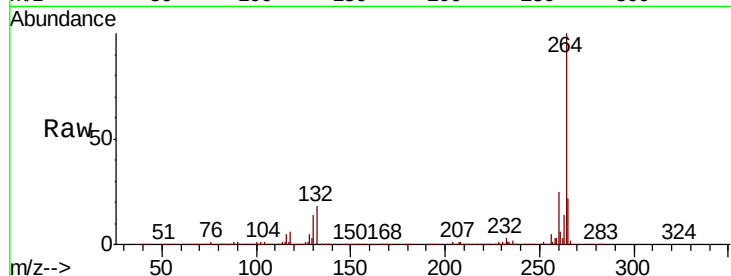
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.7	29.5
265	22.3	18.1	27.1

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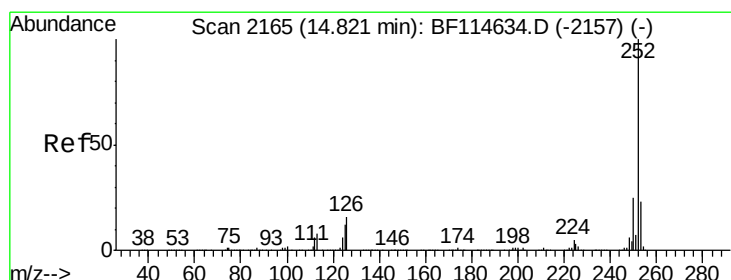
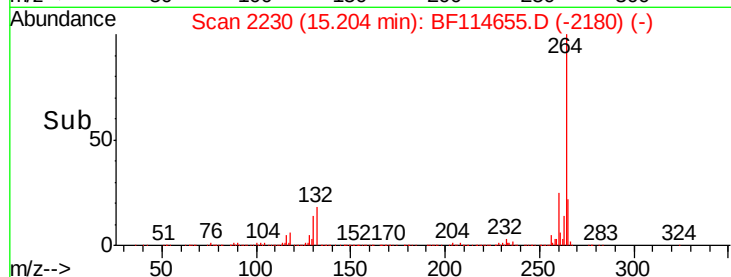
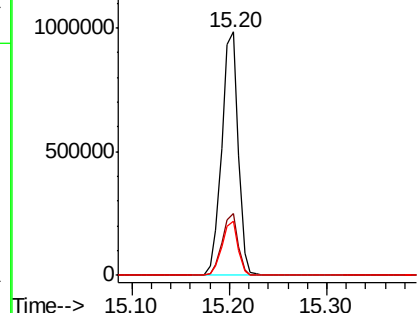


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88
Benzo(b)fluoranthene
Concen: 20.598 ng
RT: 14.82 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

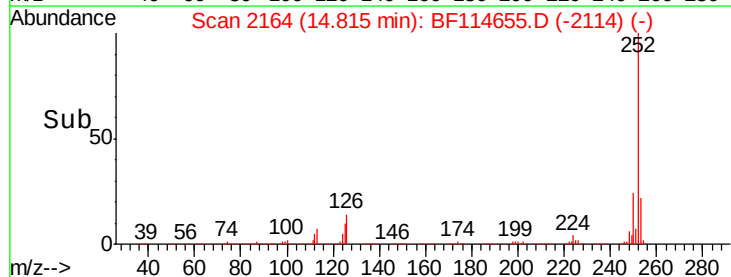
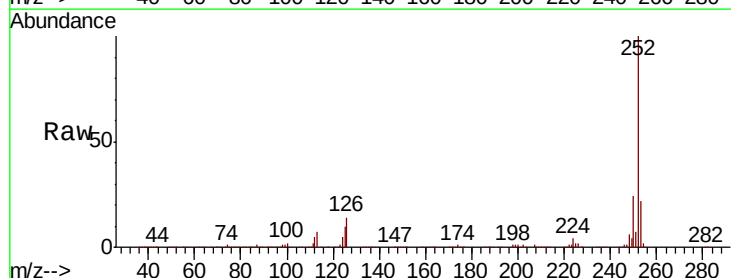
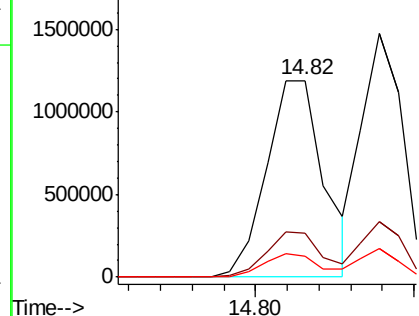
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.7	28.1
125	10.4	9.4	14.2

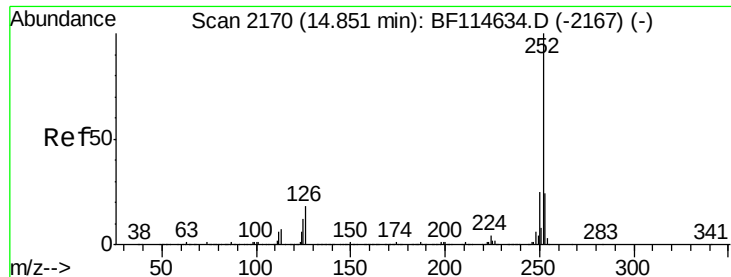
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 21.086 ng

RT: 14.84 min Scan# 2168

Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Instrument :

BNA_F

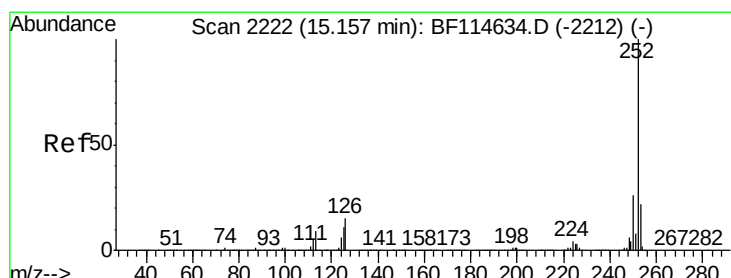
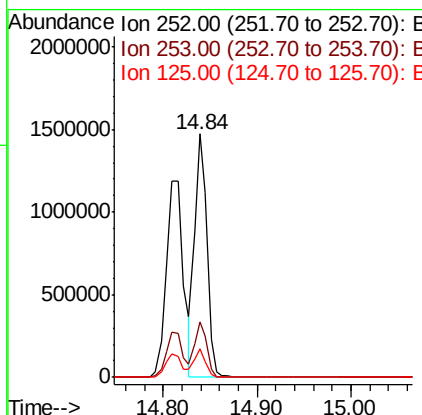
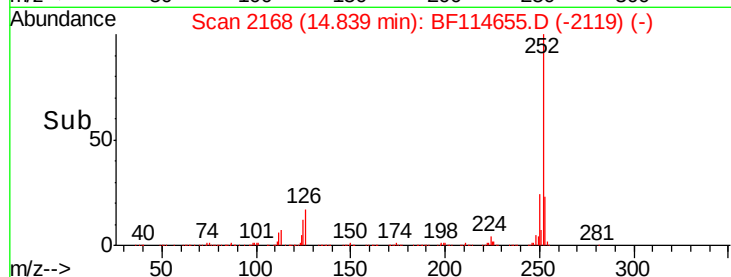
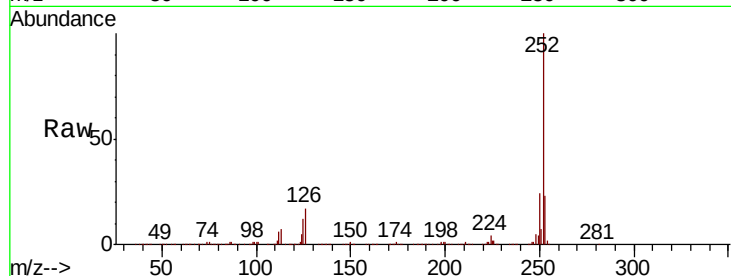
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	252	Resp:	1329905
Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.9	28.3
125	11.9	9.5	14.3

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#90

Benzo(a)pyrene

Concen: 21.531 ng

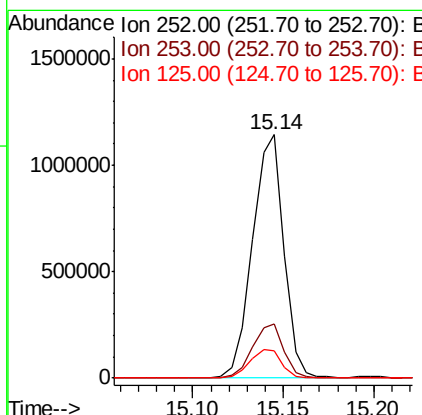
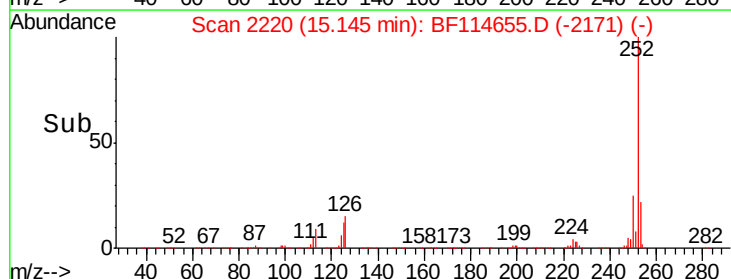
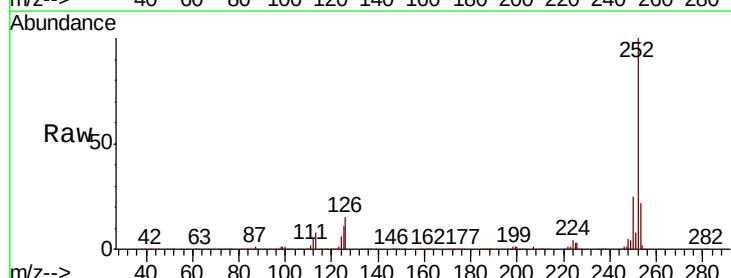
RT: 15.14 min Scan# 2220

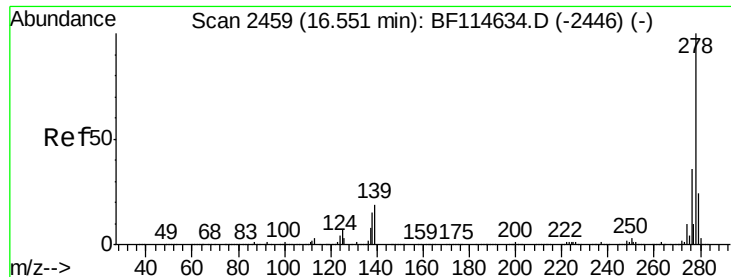
Delta R.T. -0.01 min

Lab File: BF114655.D

Acq: 30 May 2019 12:35

Tgt Ion:	252	Resp:	1372542
Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	11.4	9.2	13.8





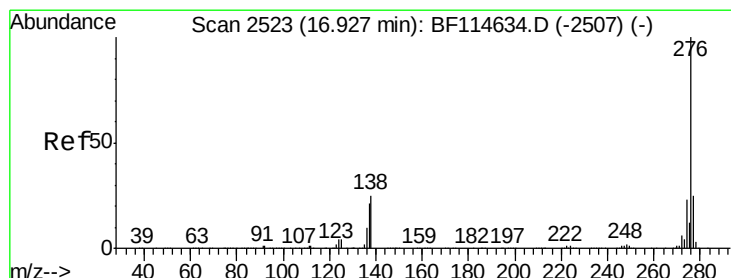
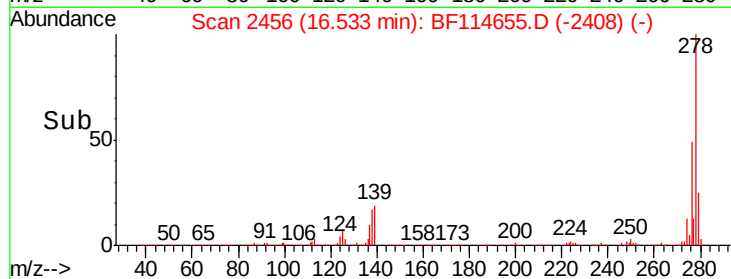
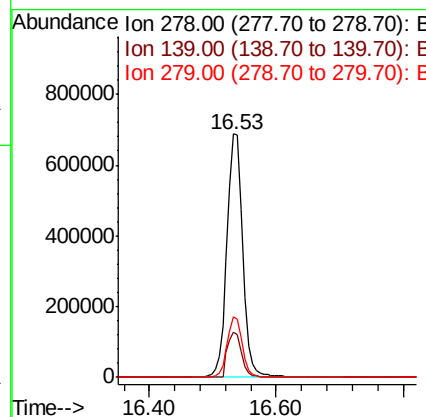
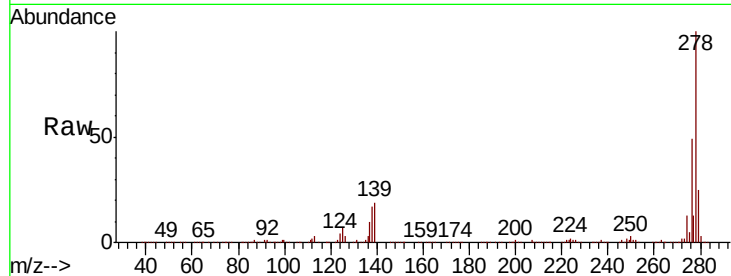
#91
Dibenzo(a,h)anthracene
Concen: 21.289 ng
RT: 16.53 min Scan# 2456
Delta R.T. -0.02 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Instrument :
BNA_F
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.9	22.3
279	24.8	19.5	29.3

Manual Integrations
APPROVED

mohammad
6/3/2019 8:46:59 AM



#92
Benzo(g,h,i)perylene
Concen: 20.403 ng
RT: 16.91 min Scan# 2520
Delta R.T. -0.02 min
Lab File: BF114655.D
Acq: 30 May 2019 12:35

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.7	29.5
138	25.1	19.8	29.8

