

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012420\
 Data File : BM024621.D
 Acq On : 24 Jan 2020 15:31
 Operator : CG/JU
 Sample : K5111-02
 Misc : 10 PPM L00
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Manual Integrations
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mohammad
 1/28/2020 8:13:13 AM

Quant Time: Jan 24 17:11:11 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM012320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 23 14:57:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	216341	20.00	ng	0.00
21) Naphthalene-d8	10.20	136	894152	20.00	ng	0.00
39) Acenaphthene-d10	14.09	164	635176	20.00	ng	0.00
64) Phenanthrene-d10	16.84	188	1457373	20.00	ng	0.00
76) Chrysene-d12	21.05	240	1536762	20.00	ng	0.00
87) Perylene-d12	23.16	264	1717032	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	1508129	132.57	ng	0.00
7) Phenol-d6	6.64	99	1991166	127.06	ng	0.00
23) Nitrobenzene-d5	8.58	82	1326729	72.77	ng	0.00
42) 2,4,6-Tribromophenol	15.59	330	1299125	125.74	ng	0.00
45) 2-Fluorobiphenyl	12.70	172	3317248	71.00	ng	0.00
79) Terphenyl-d14	19.50	244	6658752	80.89	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.08	88	48737	10.831	ng	100
3) Pyridine	3.46	79	143015	10.963	ng	94
4) n-Nitrosodimethylamine	3.37	42	55944	9.662	ng	# 96
6) Aniline	6.78	93	190537	9.988	ng	96
8) 2-Chlorophenol	7.02	128	127428	9.840	ng	96
9) Benzaldehyde	6.59	77	87050m	9.401	ng	
10) Phenol	6.66	94	154496	9.890	ng	97
11) bis(2-Chloroethyl)ether	6.89	93	125521	10.037	ng	98
12) 1,3-Dichlorobenzene	7.33	146	161587	10.157	ng	100
13) 1,4-Dichlorobenzene	7.47	146	159083	9.857	ng	98
14) 1,2-Dichlorobenzene	7.79	146	156537	10.048	ng	98
15) Benzyl Alcohol	7.68	79	127185	9.844	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.97	45	118766	10.374	ng	97
17) 2-Methylphenol	7.89	107	107106	9.730	ng	99
18) Hexachloroethane	8.50	117	62187	9.978	ng	97
19) n-Nitroso-di-n-propylamine	8.25	70	117116	9.954	ng	96
20) 3+4-Methylphenols	8.22	107	143523	9.419	ng	99
22) Acetophenone	8.25	105	225558	9.783	ng	96
24) Nitrobenzene	8.62	77	179224	10.258	ng	99
25) Isophorone	9.15	82	300321	9.694	ng	99
26) 2-Nitrophenol	9.33	139	68620	8.482	ng	98
27) 2,4-Dimethylphenol	9.40	122	101778	9.258	ng	99
28) bis(2-Chloroethoxy)methane	9.64	93	185593	9.807	ng	97
29) 2,4-Dichlorophenol	9.86	162	134598	9.062	ng	97
30) 1,2,4-Trichlorobenzene	10.07	180	172207	9.613	ng	96
31) Naphthalene	10.25	128	433864	9.607	ng	99
32) Benzoic acid	9.50	122	80202m	7.975	ng	
33) 4-Chloroaniline	10.36	127	183781	9.284	ng	98
34) Hexachlorobutadiene	10.56	225	120014	9.691	ng	97
35) Caprolactam	11.13	113	42534	8.926	ng	96
36) 4-Chloro-3-methylphenol	11.50	107	142913	9.048	ng	98
37) 2-Methylnaphthalene	11.87	142	328244	9.418	ng	99
38) 1-Methylnaphthalene	12.10	142	317789	9.586	ng	97
40) 1,2,4,5-Tetrachlorobenzene	12.26	216	214240	9.451	ng	99

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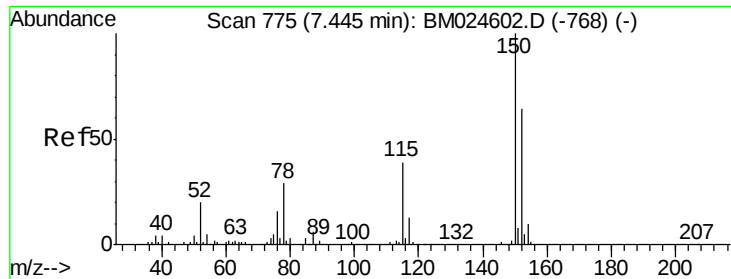
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	12.25	237	113528	8.935	nq	99
43) 2,4,6-Trichlorophenol	12.50	196	126663	8.780	nq	97
44) 2,4,5-Trichlorophenol	12.57	196	129112	8.764	nq	99
46) 1,1'-Biphenyl	12.92	154	461295	9.597	nq	99
47) 2-Chloronaphthalene	12.95	162	373713	9.630	nq	99
48) 2-Nitroaniline	13.16	65	105107	8.881	nq	98
49) Acenaphthylene	13.80	152	548321	9.439	nq	100
50) Dimethylphthalate	13.56	163	491224	9.564	nq	100
51) 2,6-Dinitrotoluene	13.67	165	98815	9.049	nq	98
52) Acenaphthene	14.15	154	342295	9.495	nq	99
53) 3-Nitroaniline	13.99	138	101975	9.004	nq	94
54) 2,4-Dinitrophenol	14.20	184	43910	6.724	nq	89
55) Dibenzofuran	14.49	168	559193	9.512	nq	99
56) 4-Nitrophenol	14.32	139	72282	8.164	nq	95
57) 2,4-Dinitrotoluene	14.46	165	138319	8.838	nq	99
58) Fluorene	15.15	166	456763	9.245	nq	98
59) 2,3,4,6-Tetrachlorophenol	14.73	232	134726	9.018	nq	99
60) Diethylphthalate	14.95	149	486677	9.333	nq	99
61) 4-Chlorophenyl-phenylether	15.15	204	263121	9.238	nq	98
62) 4-Nitroaniline	15.16	138	106681	8.533	nq	93
63) Azobenzene	15.45	77	422422	9.497	nq	98
65) 4,6-Dinitro-2-methylphenol	15.23	198	64877	7.571	nq	99
66) n-Nitrosodiphenylamine	15.37	169	397737	9.501	nq	100
67) 4-Bromophenyl-phenylether	16.05	248	168347	9.289	nq	98
68) Hexachlorobenzene	16.16	284	196751	9.460	nq	96
69) Atrazine	16.33	200	143047	8.902	nq	97
70) Pentachlorophenol	16.50	266	105827	8.354	nq	98
71) Phenanthrene	16.88	178	752663	9.537	nq	99
72) Anthracene	16.97	178	727757	9.424	nq	99
73) Carbazole	17.24	167	656511	9.339	nq	98
74) Di-n-butylphthalate	17.84	149	805573	8.964	nq	99
75) Fluoranthene	18.91	202	922337	9.364	nq	98
77) Benzidine	19.10	184	316796	8.852	nq	99
78) Pyrene	19.27	202	958730	9.463	nq	99
80) Butylbenzylphthalate	20.21	149	357849	8.418	nq	96
81) Benzo(a)anthracene	21.03	228	1023855	9.599	nq	99
82) 3,3'-Dichlorobenzidine	20.97	252	339532	8.849	nq	98
83) Chrysene	21.09	228	986146	9.689	nq	98
84) Bis(2-ethylhexyl)phthalate	21.01	149	534396	8.520	nq	99
85) Di-n-octyl phthalate	21.86	149	870006	8.395	nq	99
86) Indeno(1,2,3-cd)pyrene	25.22	276	1040544	9.380	nq	99
88) Benzo(b)fluoranthene	22.54	252	992501	8.912	nq	100
89) Benzo(k)fluoranthene	22.58	252	1026169	9.440	nq	99
90) Benzo(a)pyrene	23.07	252	915015	9.037	nq	99
91) Dibenzo(a,h)anthracene	25.23	278	870908	9.063	nq	99
92) Benzo(g,h,i)perylene	25.84	276	796463	9.128	nq	99

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



#1

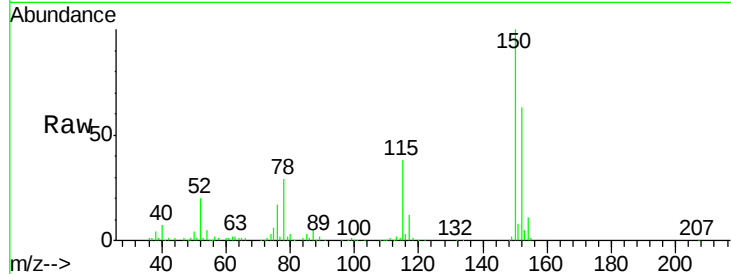
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.44 min Scan# 774
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	124.2	186.4
115	60.6	48.6	72.8

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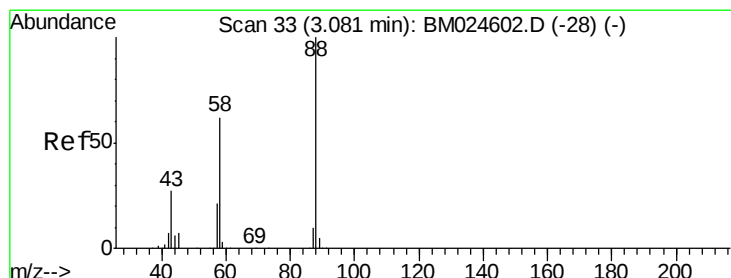
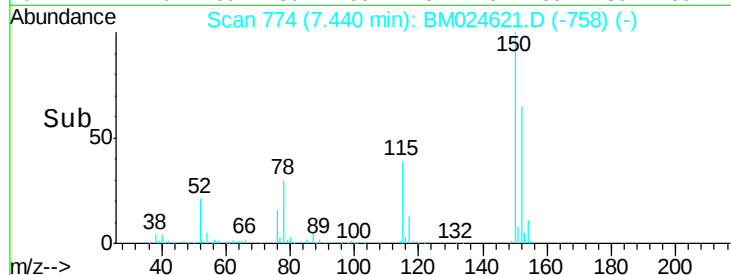
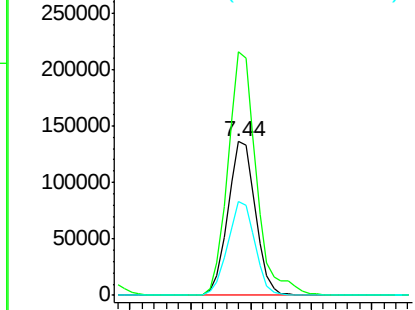


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

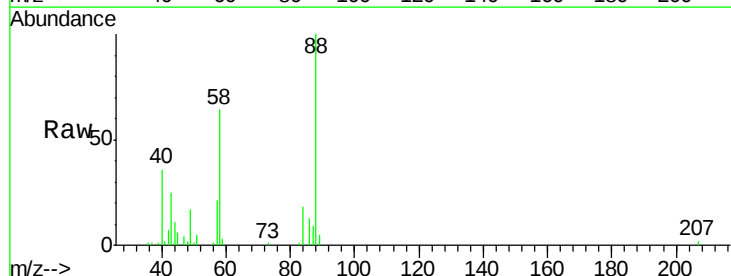
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane
Concen: 10.831 ng
RT: 3.08 min Scan# 33
Delta R.T. 0.00 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
88	100		
58	62.6	50.0	75.0
43	26.5	21.6	32.4

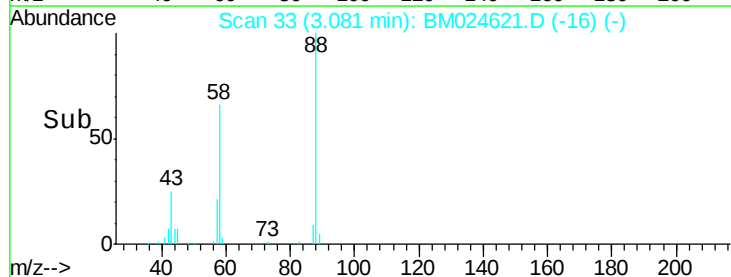
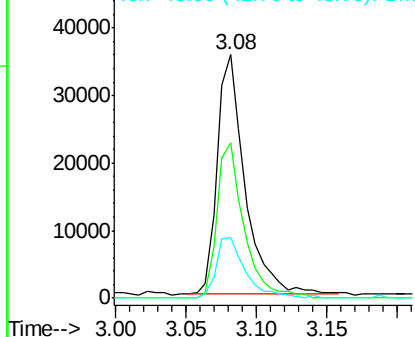


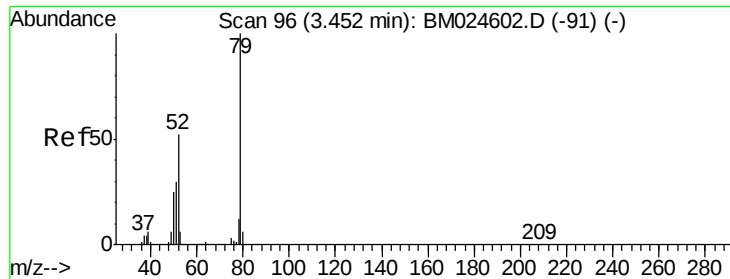
Abundance

Ion 88.00 (87.70 to 88.70): BMC

Ion 58.00 (57.70 to 58.70): BMC

Ion 43.00 (42.70 to 43.70): BMC





#3

Pvridine

Concen: 10.963 ng

RT: 3.46 min Scan# 97

Delta R.T. 0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

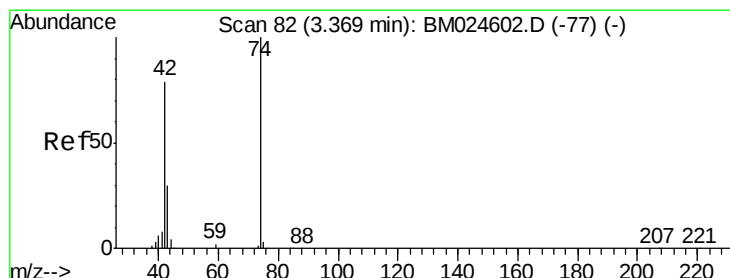
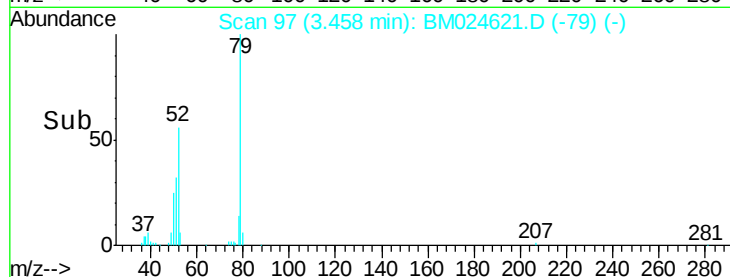
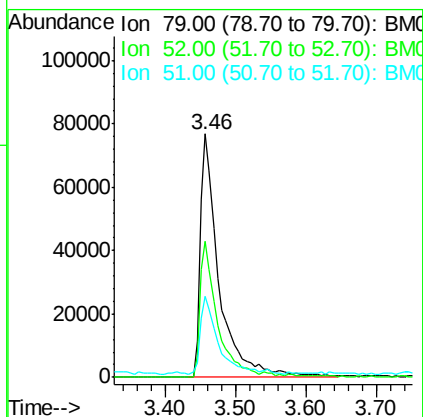
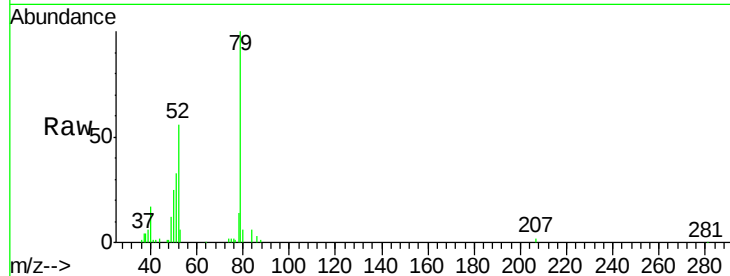
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	79	Resp:	143015
Ion Ratio	Lower	Upper	
79	100		
52	55.8	41.4	62.2
51	33.5	23.8	35.8

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#4

n-Nitrosodimethylamine

Concen: 9.662 ng

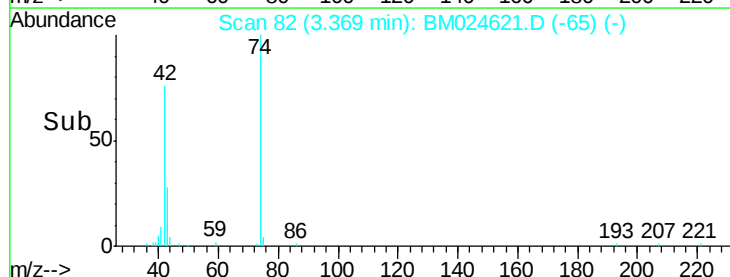
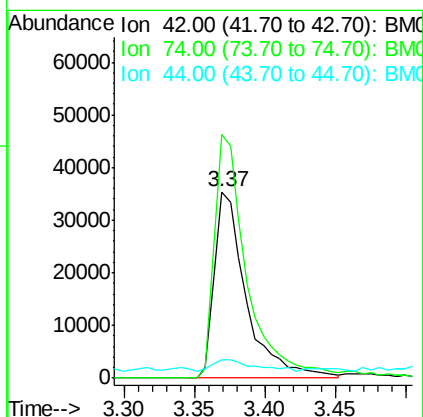
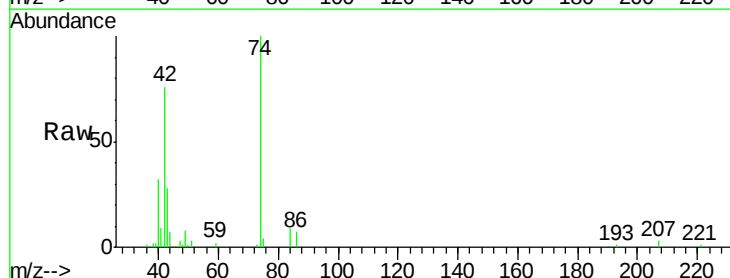
RT: 3.37 min Scan# 82

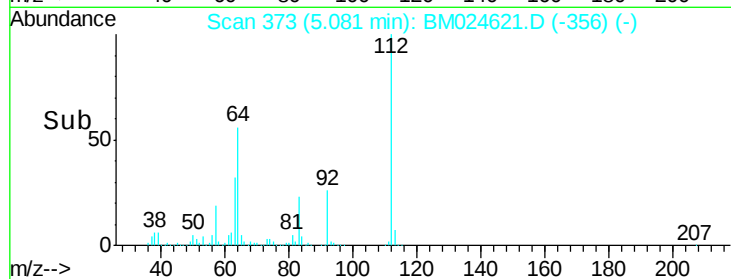
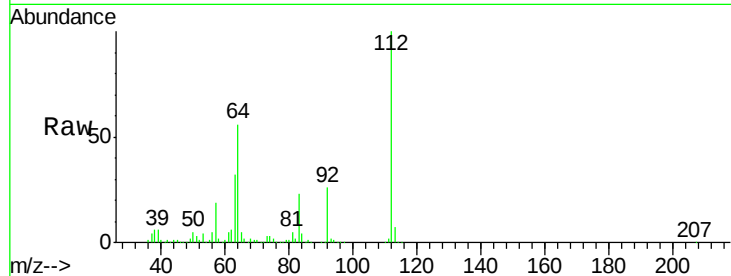
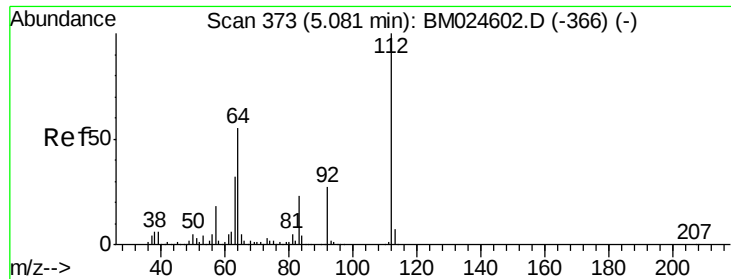
Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	42	Resp:	55944
Ion Ratio	Lower	Upper	
42	100		
74	130.8	101.4	152.2
44	9.7	4.6	6.8#





#5

2-Fluorophenol

Concen: 132.573 ng

RT: 5.08 min Scan# 373

Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 112 Resp: 1508129

Ion Ratio Lower Upper

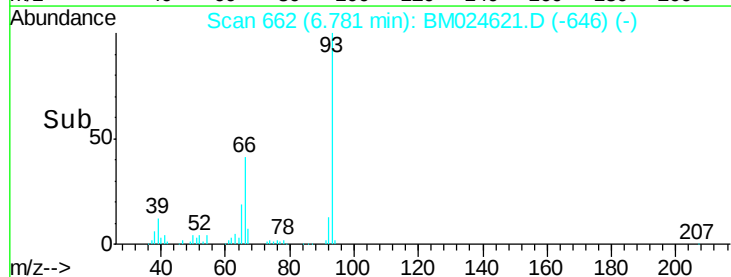
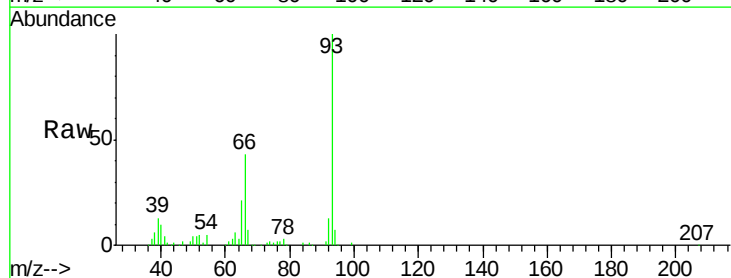
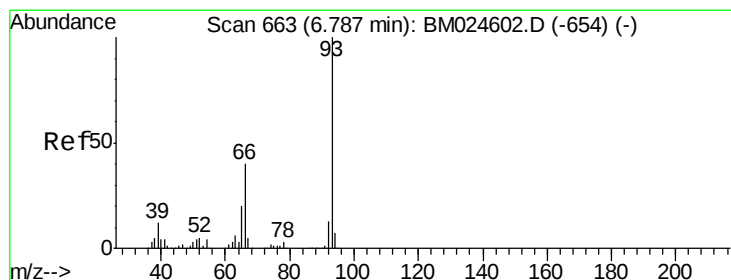
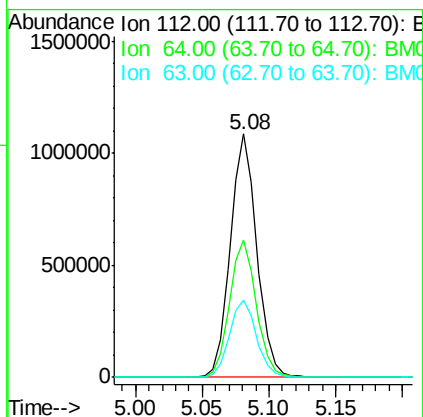
112 100

64 56.4 44.2 66.4

63 31.9 25.9 38.9

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#6

Aniline

Concen: 9.988 ng

RT: 6.78 min Scan# 662

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

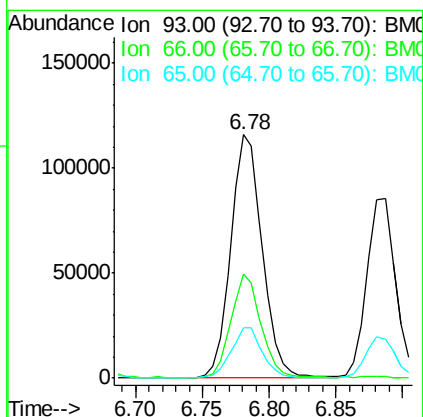
Tgt Ion: 93 Resp: 190537

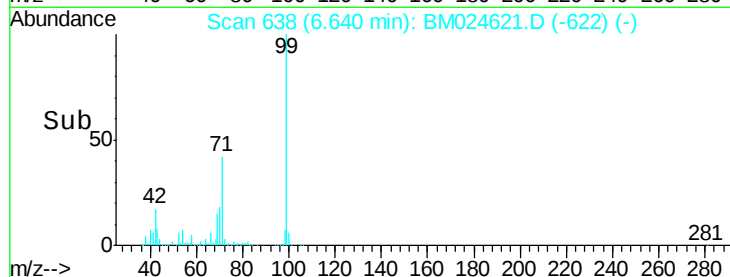
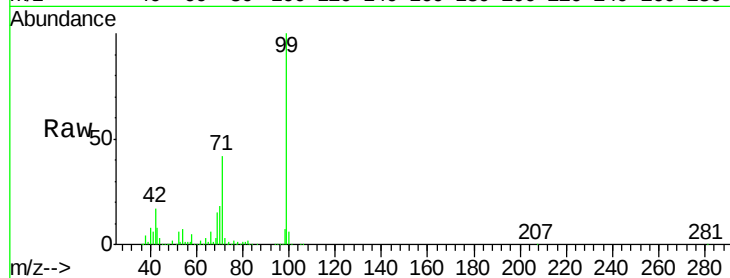
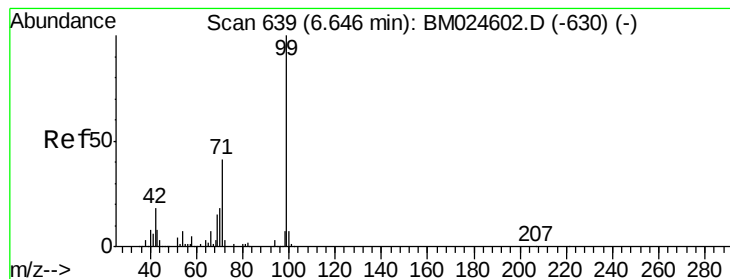
Ion Ratio Lower Upper

93 100

66 42.8 31.8 47.8

65 20.6 15.8 23.6





#7

Phenol-d6

Concen: 127.060 ng

RT: 6.64 min Scan# 638

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tot Ion: 99 Resp: 1991166

Ion Ratio Lower Upper

99 100

42 17.4 14.1 21.1

71 41.8 33.0 49.6

Instrument :

BNA_M

ClientSampleId :

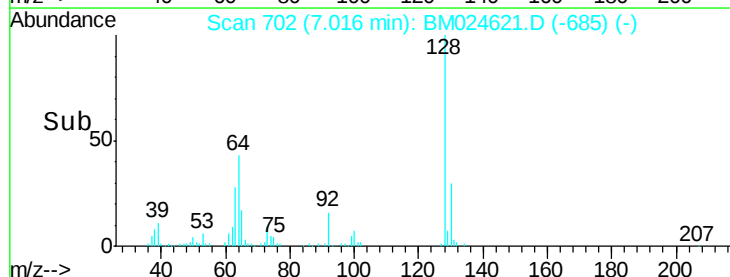
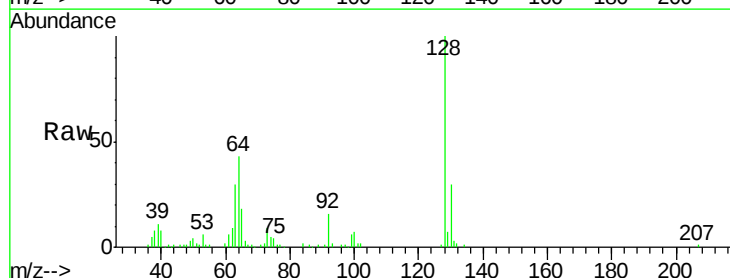
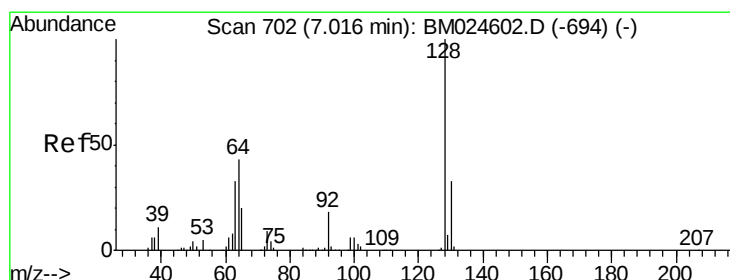
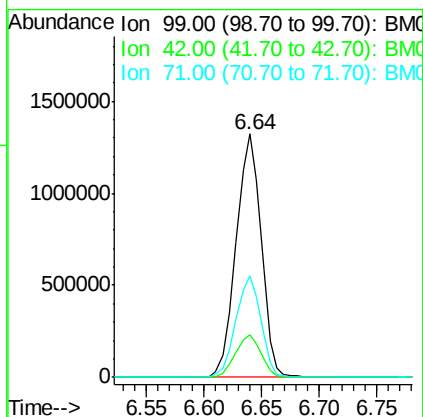
LOQ-SOIL-02-QT4-2019

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#8

2-Chlorophenol

Concen: 9.840 ng

RT: 7.02 min Scan# 702

Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

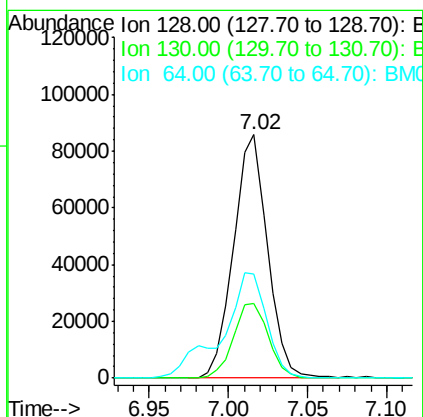
Tgt Ion: 128 Resp: 127428

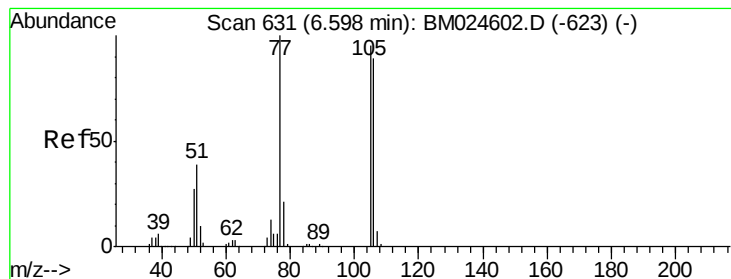
Ion Ratio Lower Upper

128 100

130 30.5 12.5 52.5

64 42.8 26.1 66.1





#9

Benzaldehyde

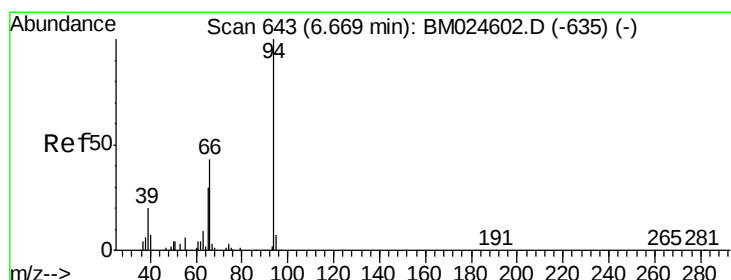
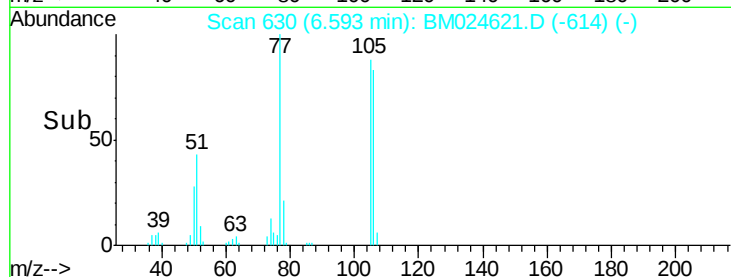
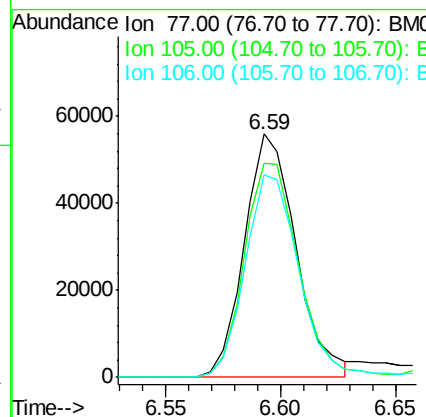
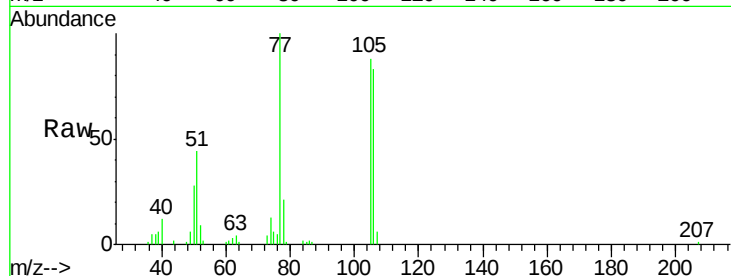
Concen: 9.401 ng/mL
 RT: 6.59 min Scan# 630
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
77	100		
105	87.7	75.2	115.2
106	83.2	68.6	108.6

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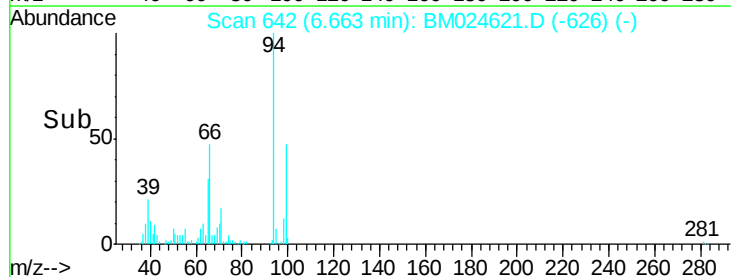
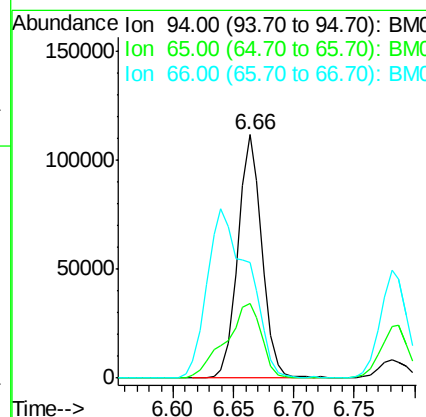
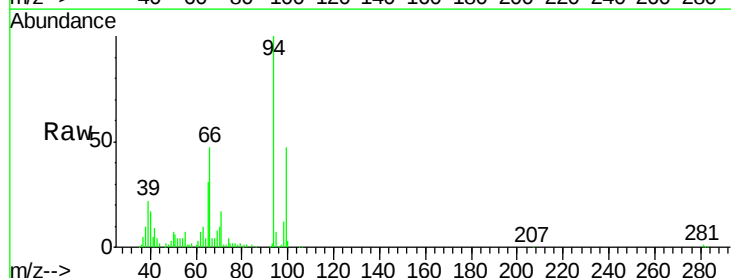


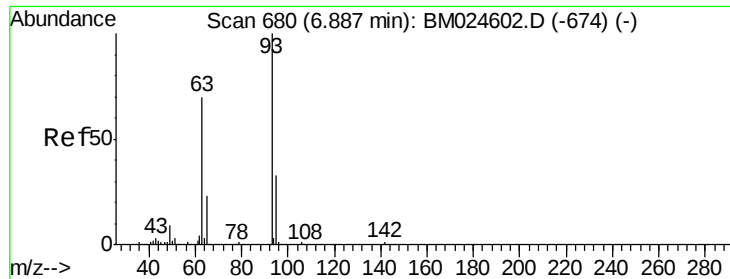
#10

Phenol

Concen: 9.890 ng/mL
 RT: 6.66 min Scan# 642
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
94	100		
65	30.9	10.3	50.3
66	47.4	24.8	64.8





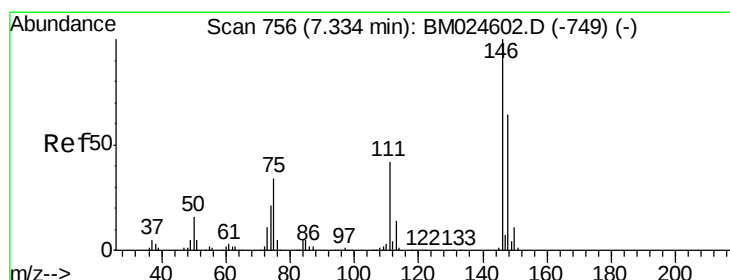
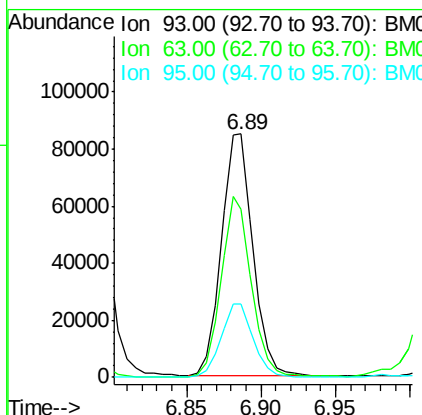
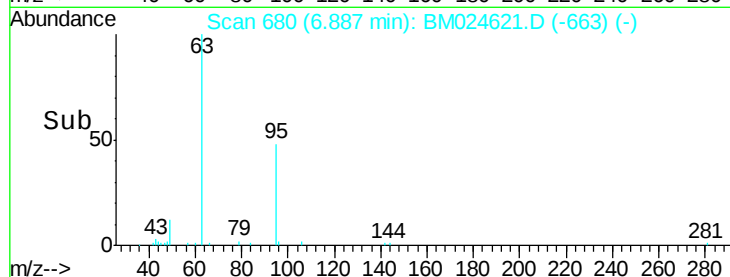
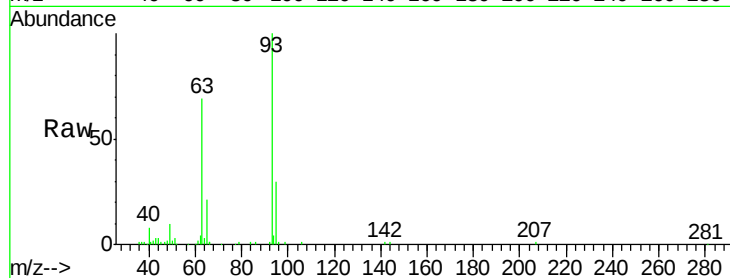
#11
bis(2-Chloroethyl)ether
Concen: 10.037 ng
RT: 6.89 min Scan# 680
Delta R.T. 0.00 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	93	Resp	125521
Ion Ratio	Lower	Upper	
93	100		
63	69.0	49.6	89.6
95	30.4	12.6	52.6

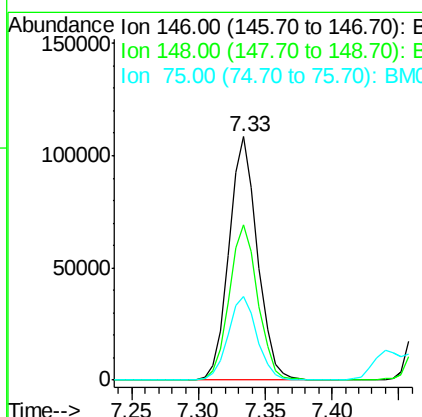
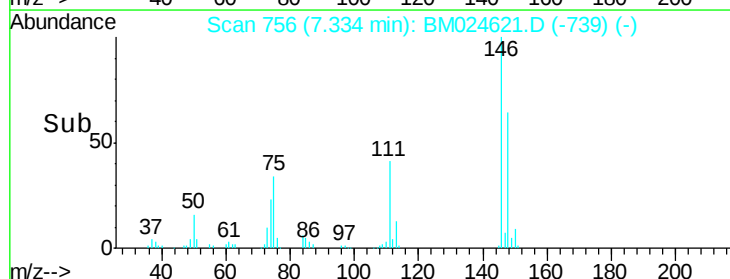
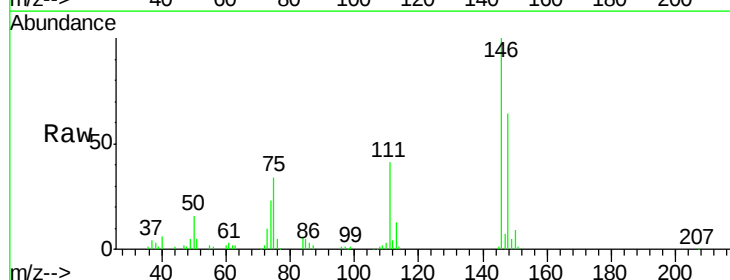
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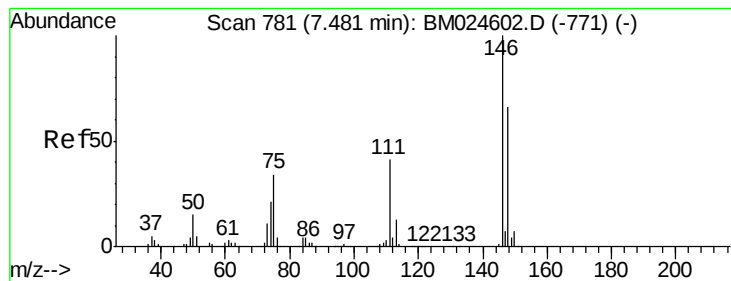
mohammad
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#12
1,3-Dichlorobenzene
Concen: 10.157 ng
RT: 7.33 min Scan# 756
Delta R.T. 0.00 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	146	Resp	161587
Ion Ratio	Lower	Upper	
146	100		
148	63.6	51.0	76.6
75	34.1	27.0	40.4





#13

1,4-Dichlorobenzene

Concen: 9.857 ng

RT: 7.47 min Scan# 780

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

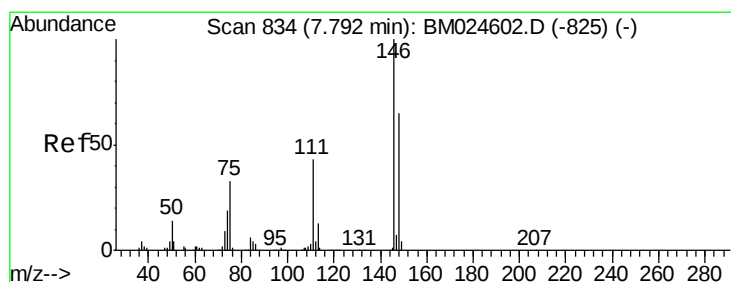
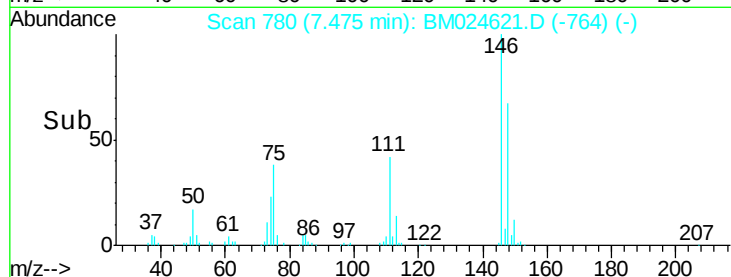
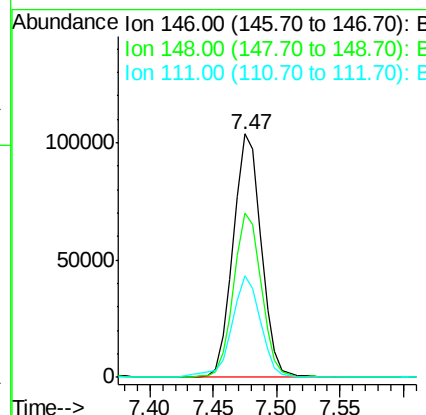
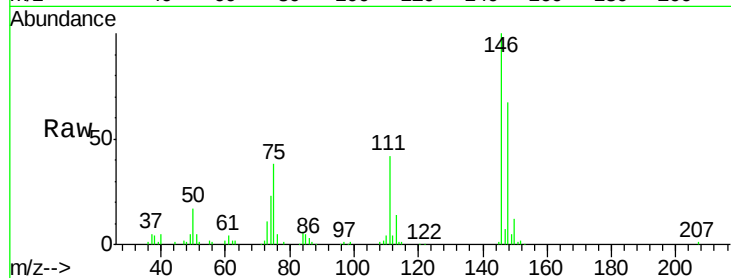
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	146	Resp:	159083
Ion Ratio	Lower	Upper	
146	100		
148	67.3	52.5	78.7
111	41.8	33.0	49.4

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#14

1,2-Dichlorobenzene

Concen: 10.048 ng

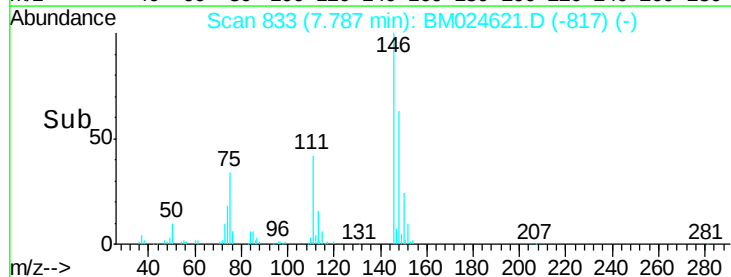
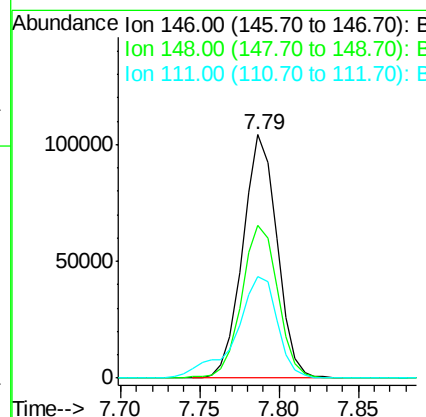
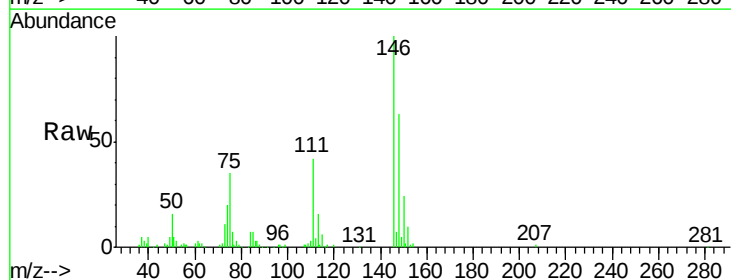
RT: 7.79 min Scan# 833

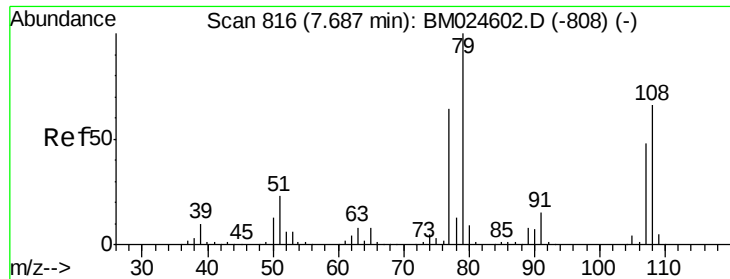
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	146	Resp:	156537
Ion Ratio	Lower	Upper	
146	100		
148	63.0	51.9	77.9
111	41.8	34.5	51.7





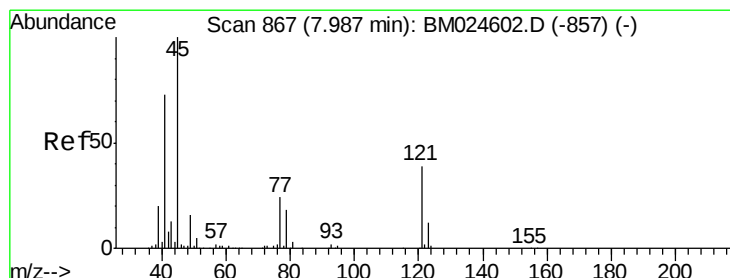
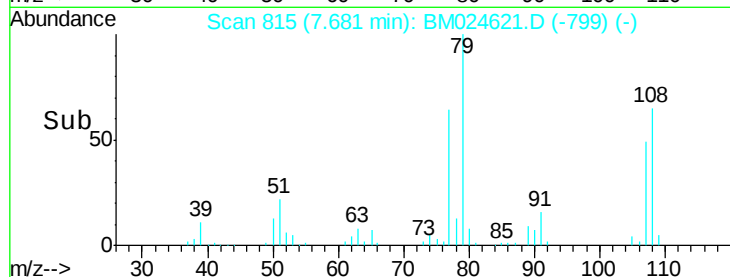
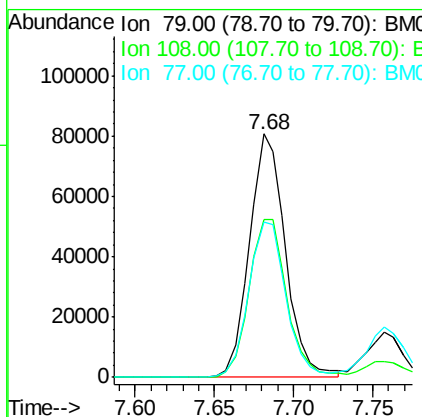
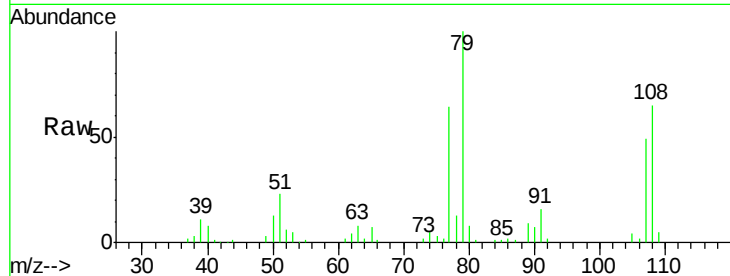
#15
Benzyl Alcohol
Concen: 9.844 ng
RT: 7.68 min Scan# 815
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
79	100		
108	65.0	53.0	79.4
77	63.7	50.8	76.2

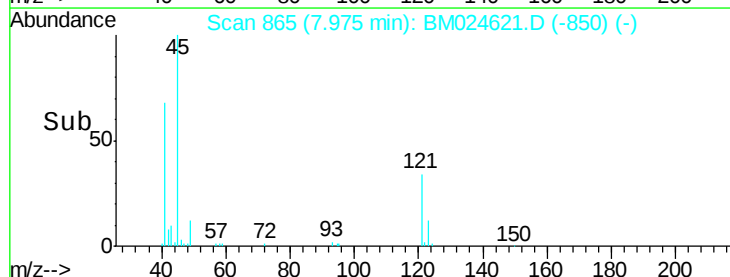
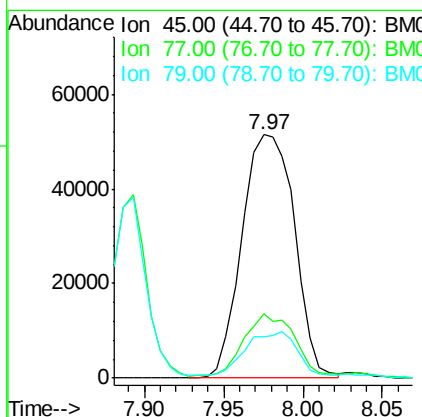
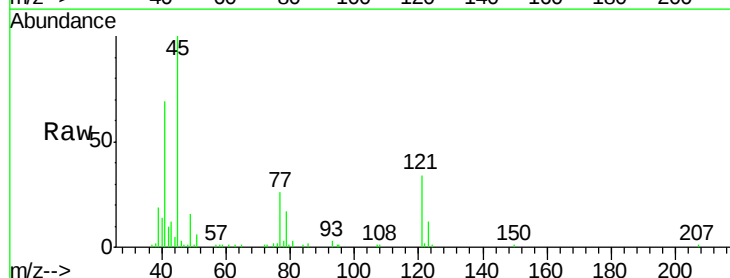
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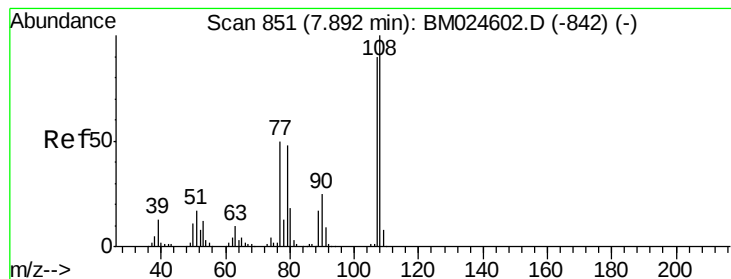
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#16
2,2'-oxybis(1-chloropropane)
Concen: 10.374 ng
RT: 7.97 min Scan# 865
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
45	100		
77	26.2	5.2	45.2
79	17.0	0.0	39.4





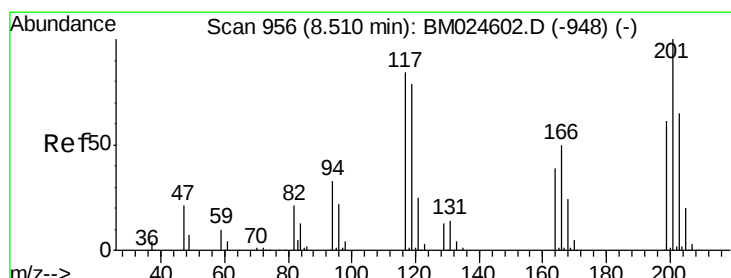
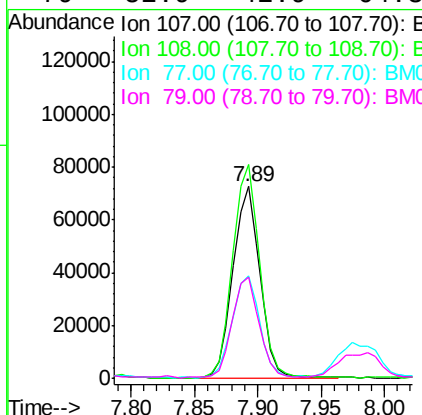
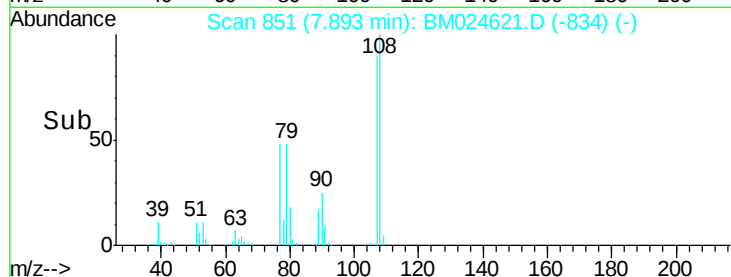
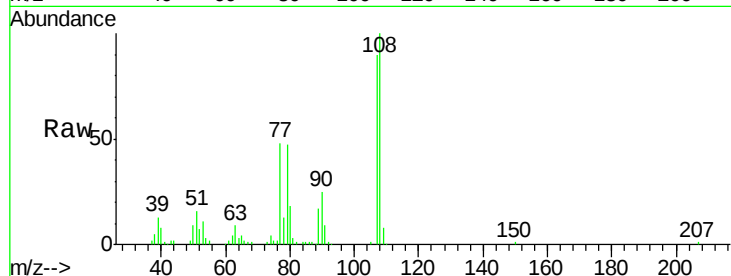
#17
2-Methylphenol
Concen: 9.730 ng
RT: 7.89 min Scan# 851
Delta R.T. 0.00 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	111.5	88.9	133.3	
77	53.6	44.5	66.7	
79	52.9	42.9	64.3	

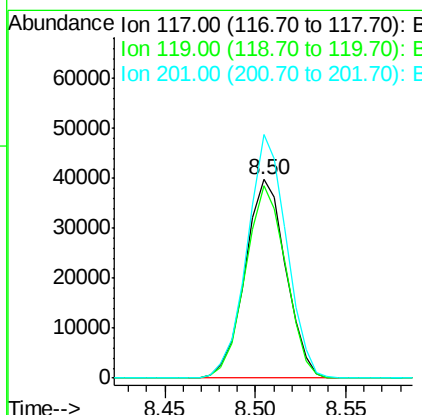
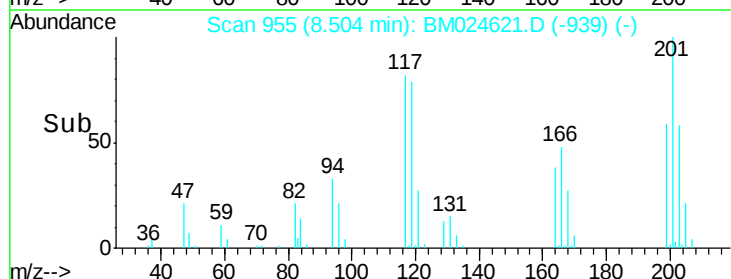
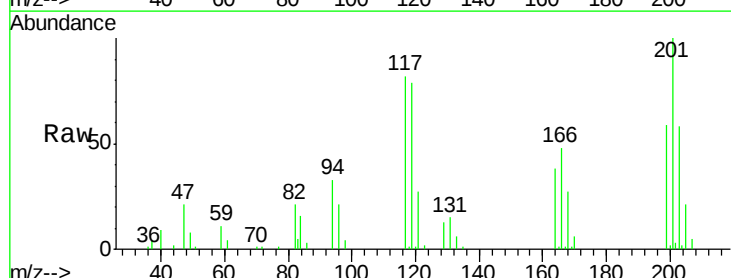
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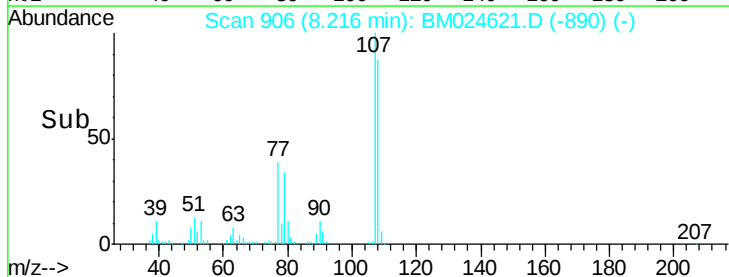
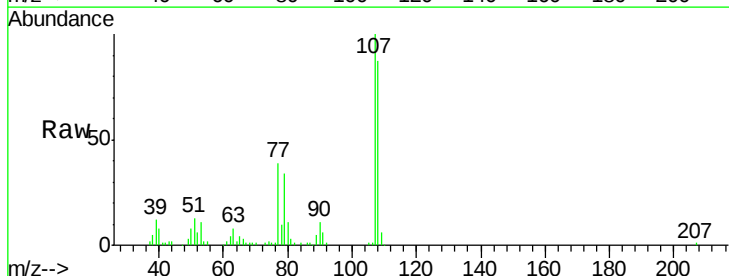
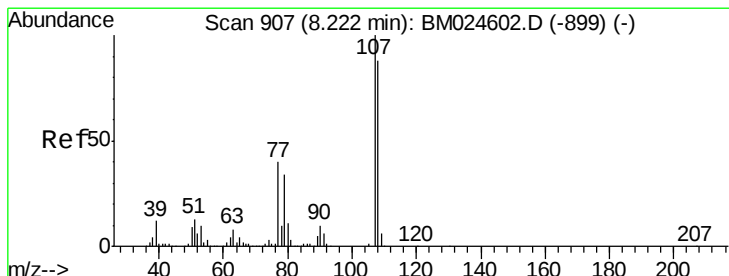
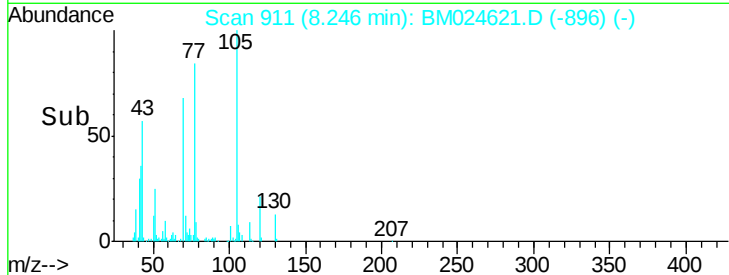
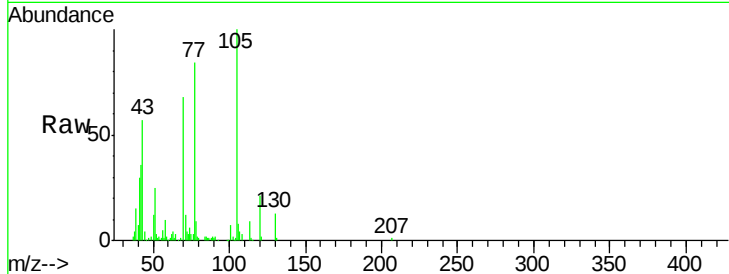
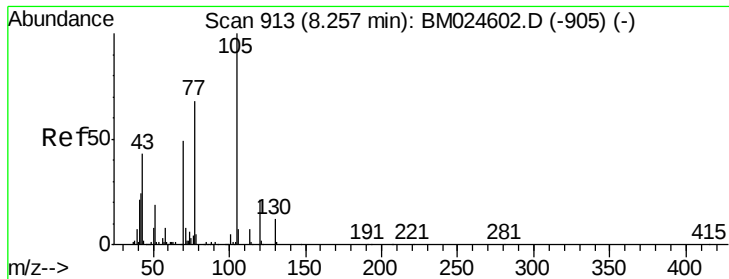
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#18
Hexachloroethane
Concen: 9.978 ng
RT: 8.50 min Scan# 955
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	97.2	75.4	113.2	
201	122.7	95.8	143.6	





#19

n-Nitroso-di-n-propylamine

Concen: 9.954 ng

RT: 8.25 min Scan# 911

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion: 70 Resp: 117116

Ion Ratio Lower Upper

70 100

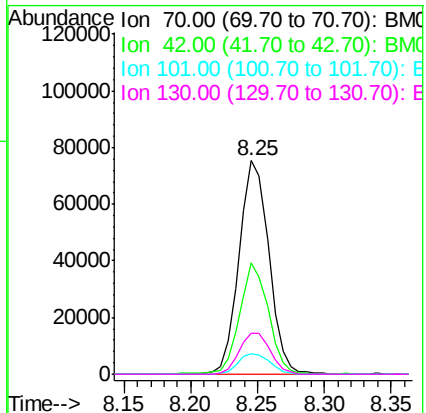
42 52.2 40.0 60.0

101 9.7 8.2 12.2

130 19.0 18.6 27.8

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#20

3+4-Methylphenols

Concen: 9.419 ng

RT: 8.22 min Scan# 906

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:107 Resp: 143523

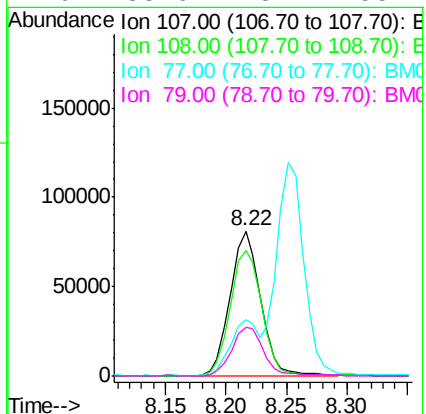
Ion Ratio Lower Upper

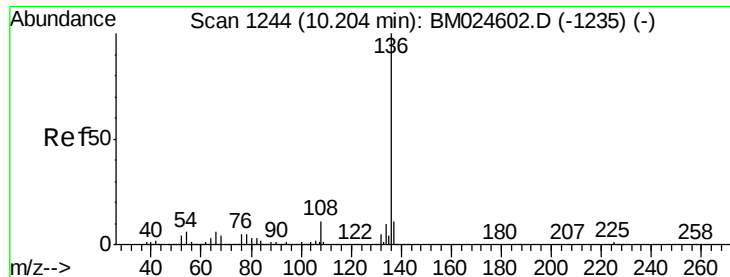
107 100

108 86.5 68.0 108.0

77 39.2 19.9 59.9

79 33.6 13.7 53.7





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.20 min Scan# 1243

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

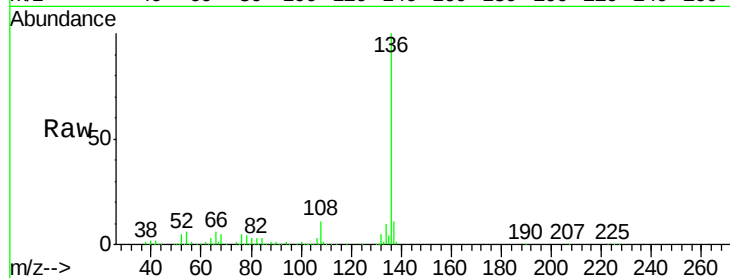
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		894152		
137	11.1	8.6	13.0		
54	6.0	4.5	6.7		
68	5.0	3.4	5.0		

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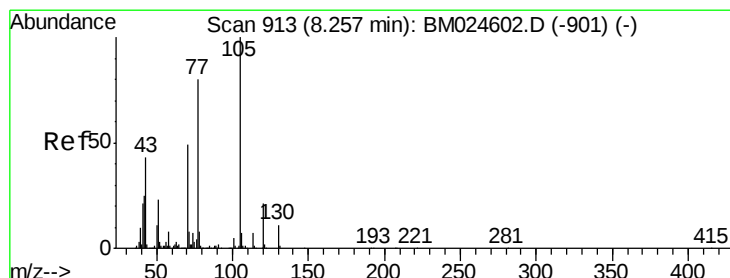
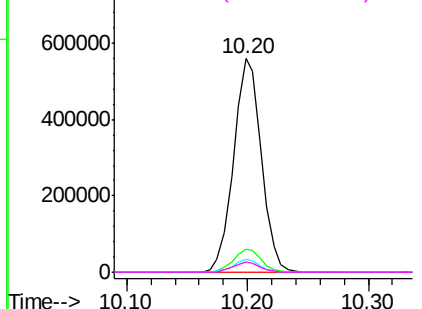
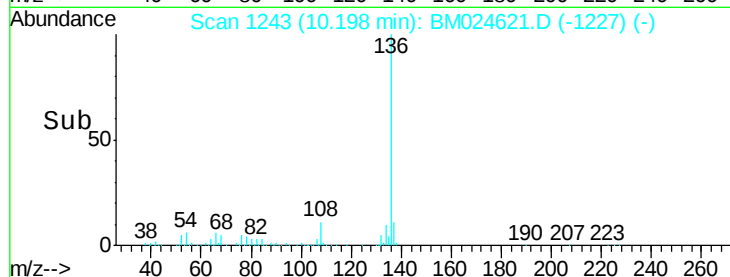
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#22

Acetophenone

Concen: 9.783 ng

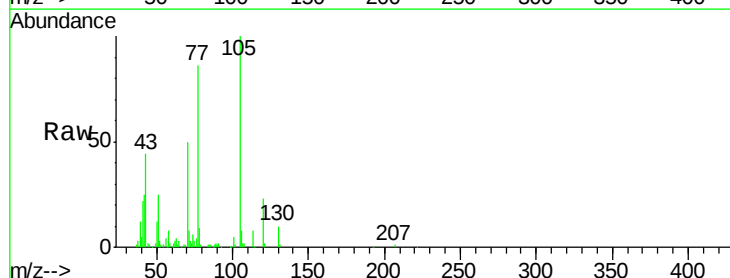
RT: 8.25 min Scan# 912

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		225558		
71	7.8	6.7	10.1		
51	25.0	18.5	27.7		
120	23.1	16.6	25.0		



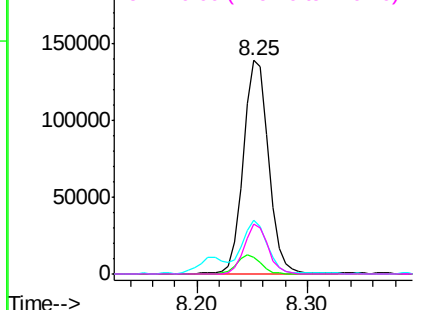
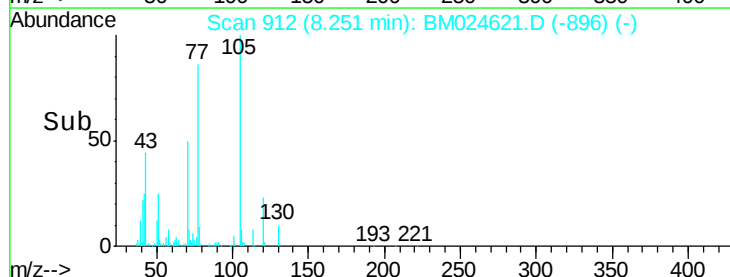
Abundance

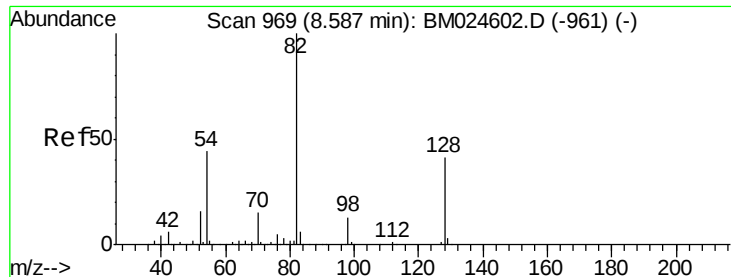
Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BM

Ion 51.00 (50.70 to 51.70): BM

Ion 120.00 (119.70 to 120.70): E





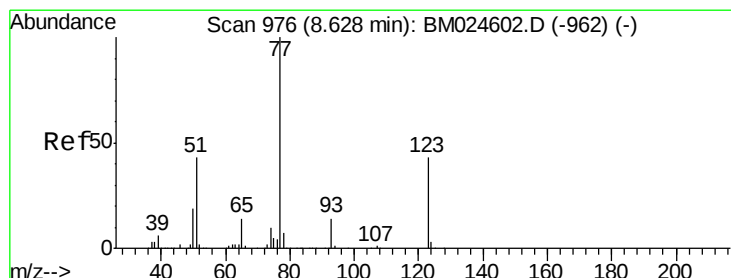
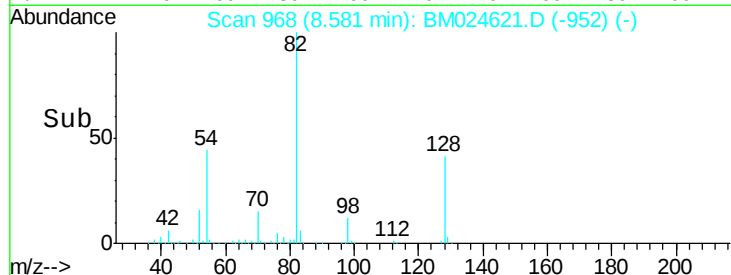
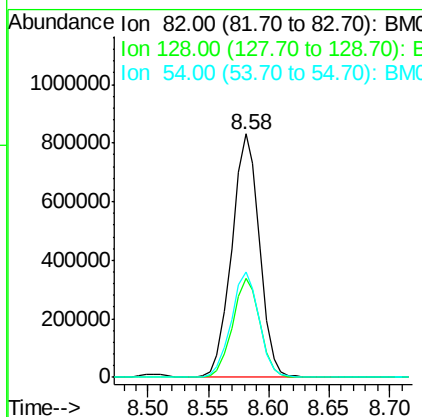
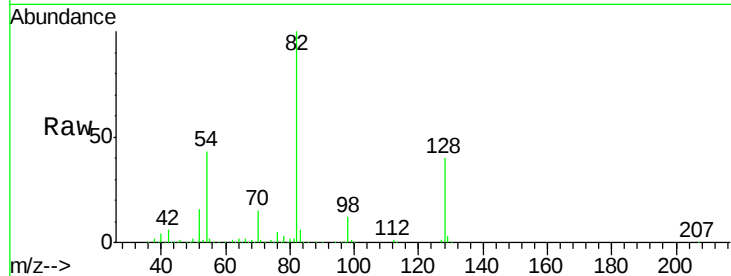
#23
 Nitrobenzene-d5
 Concen: 72.767 ng
 RT: 8.58 min Scan# 968
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	82	Resp	1326729
Ion Ratio	100	Lower	Upper
82	100		
128	40.5	32.6	48.8
54	43.5	34.8	52.2

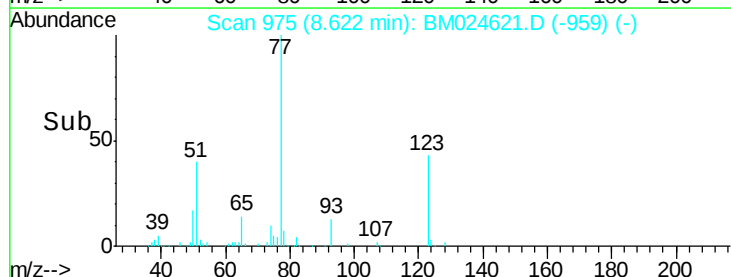
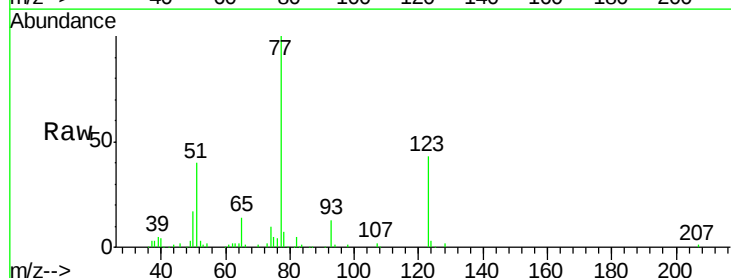
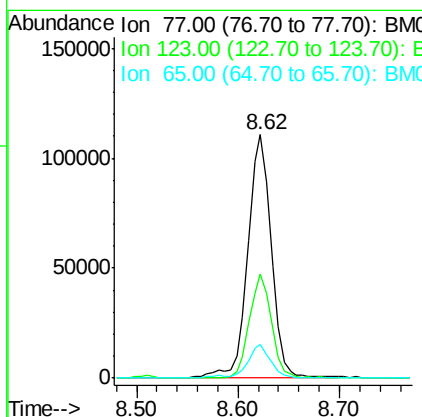
Manual Integrations
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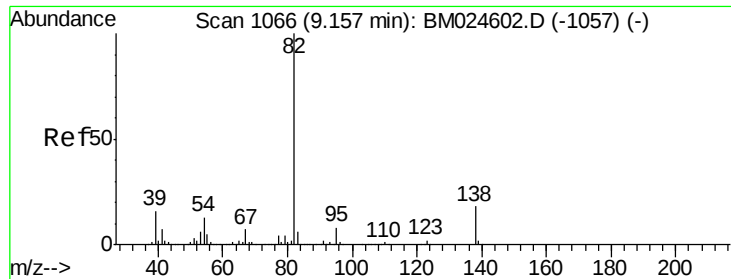
mohammad
 1/28/2020 8:13:13 AM



#24
 Nitrobenzene
 Concen: 10.258 ng
 RT: 8.62 min Scan# 975
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Tgt Ion	77	Resp	179224
Ion Ratio	100	Lower	Upper
77	100		
123	42.5	34.6	52.0
65	13.7	11.0	16.4





#25

Isophorone

Concen: 9.694 ng

RT: 9.15 min Scan# 1065

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

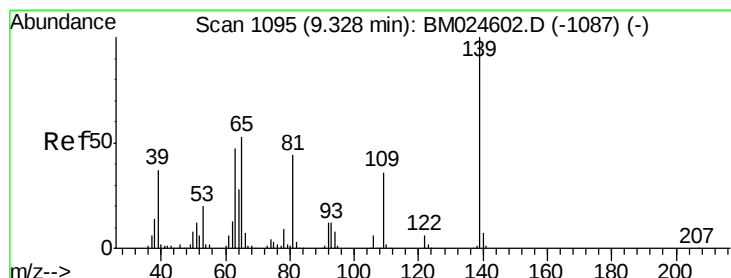
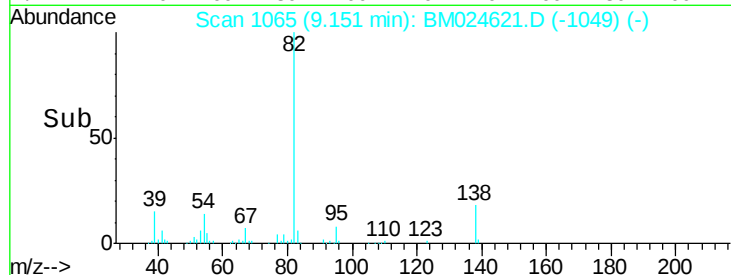
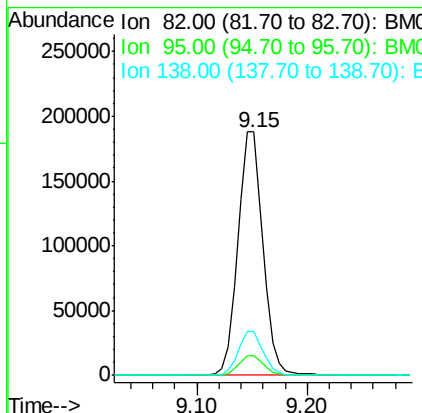
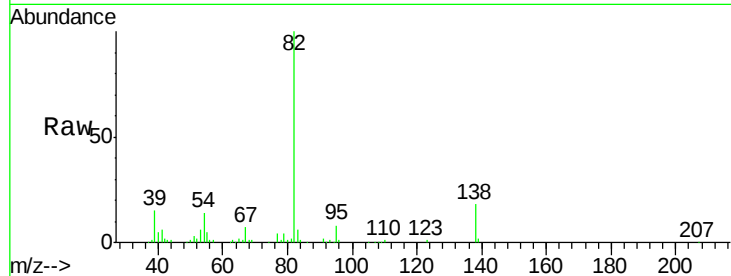
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	82	Resp:	300321
Ion Ratio	Lower	Upper	
82	100		
95	7.9	6.7	10.1
138	17.9	14.7	22.1

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#26

2-Nitrophenol

Concen: 8.482 ng

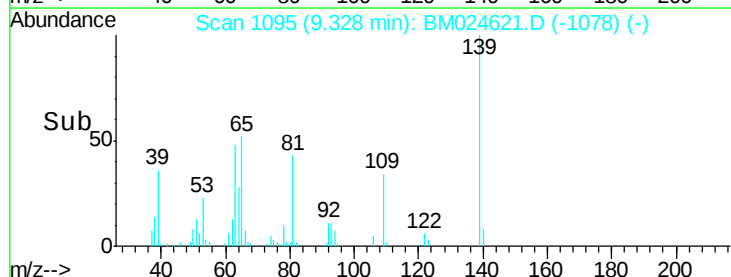
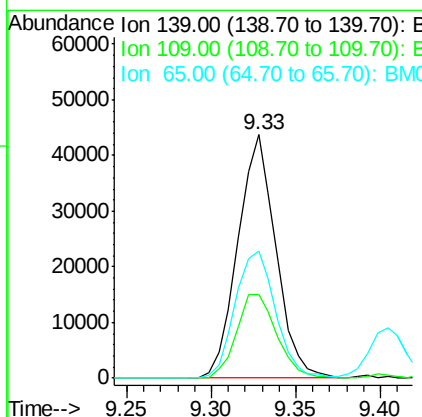
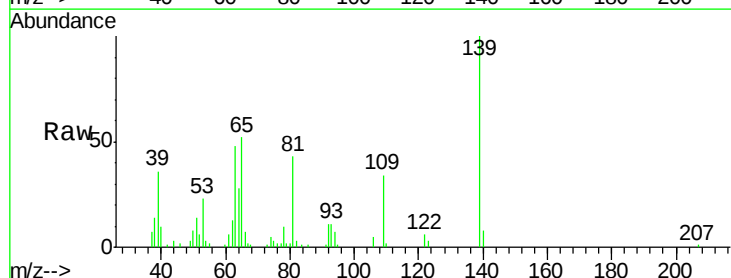
RT: 9.33 min Scan# 1095

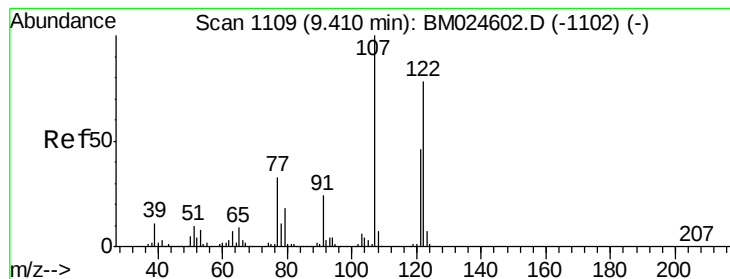
Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	139	Resp:	68620
Ion Ratio	Lower	Upper	
139	100		
109	34.4	28.8	43.2
65	52.4	42.6	63.8





#27

2,4-Dimethylphenol

Concen: 9.258 ng

RT: 9.40 min Scan# 1108

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

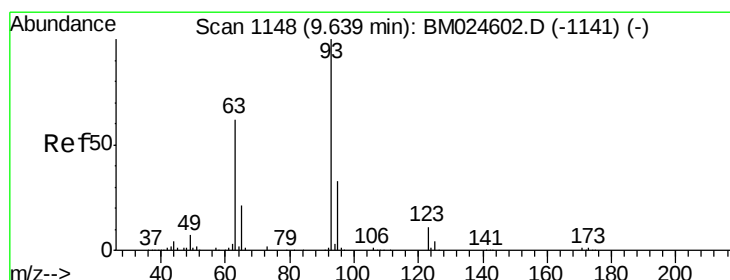
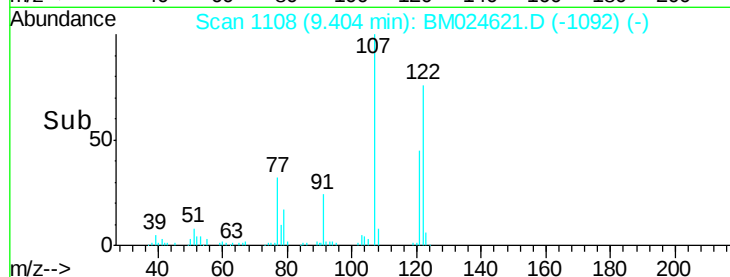
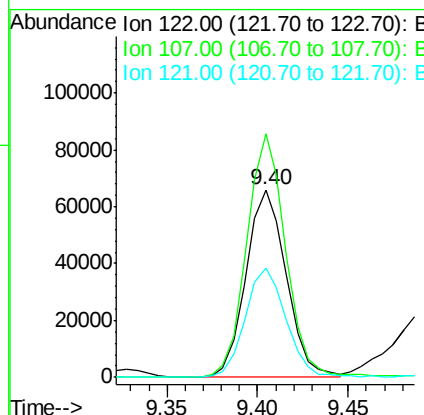
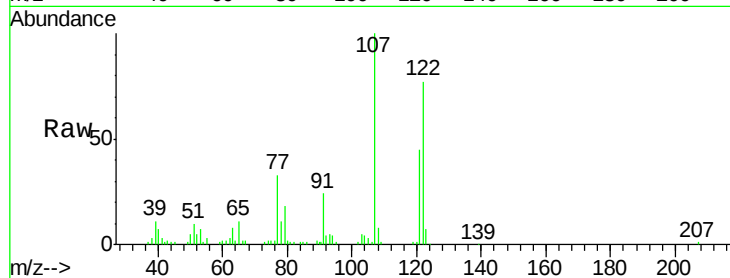
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
122	100				
107	129.9	102.5	153.7		
121	58.5	47.0	70.4		

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#28

bis(2-Chloroethoxy)methane

Concen: 9.807 ng

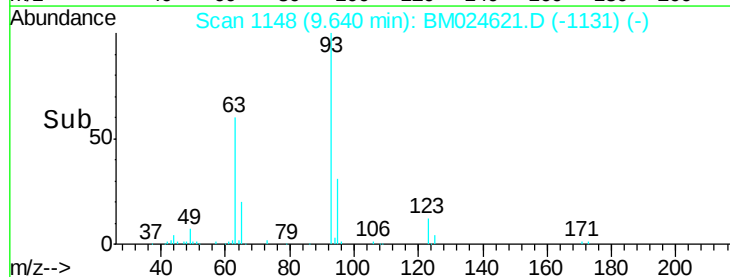
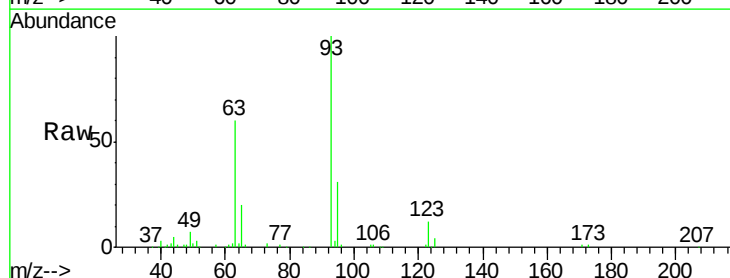
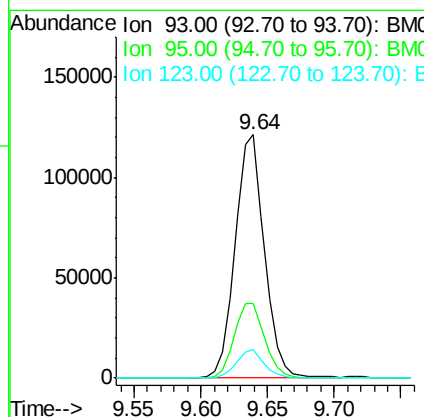
RT: 9.64 min Scan# 1148

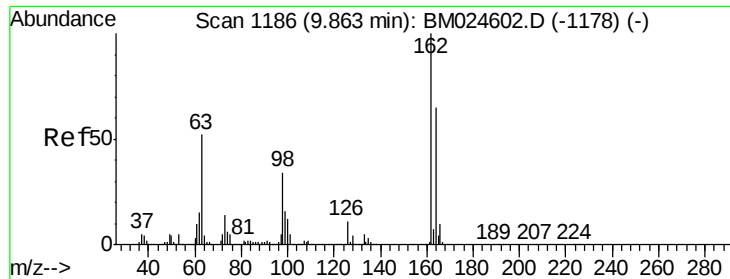
Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
93	100				
95	30.8	26.1	39.1		
123	11.7	8.7	13.1		





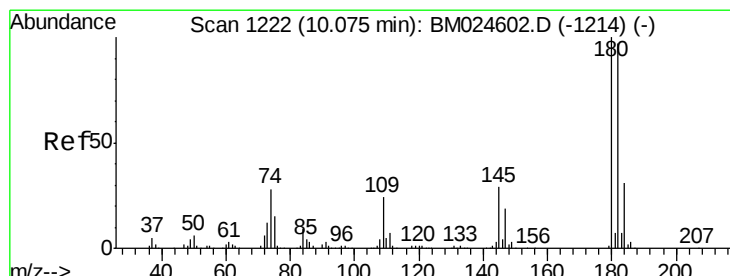
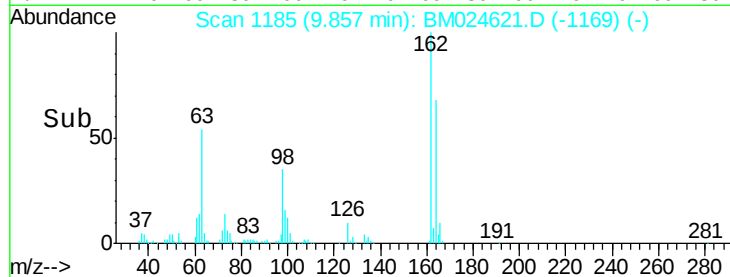
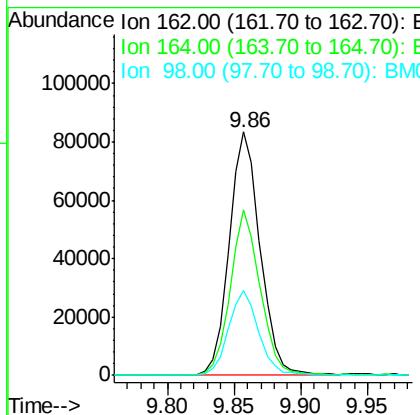
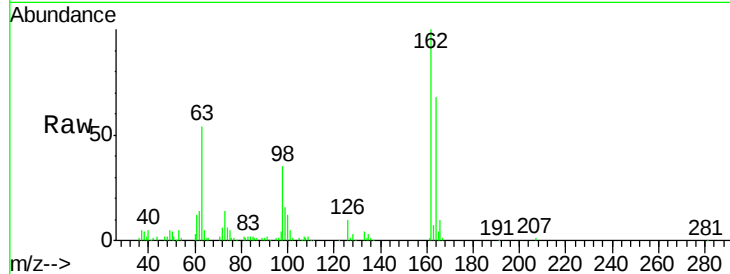
#29
2,4-Dichlorophenol
Concen: 9.062 ng
RT: 9.86 min Scan# 1185
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
162	100	134598		
164	67.8	44.5	84.5	
98	35.0	14.2	54.2	

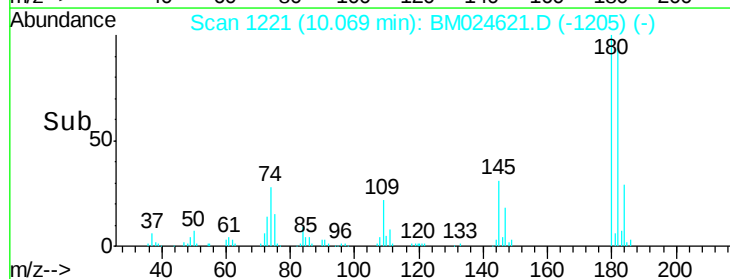
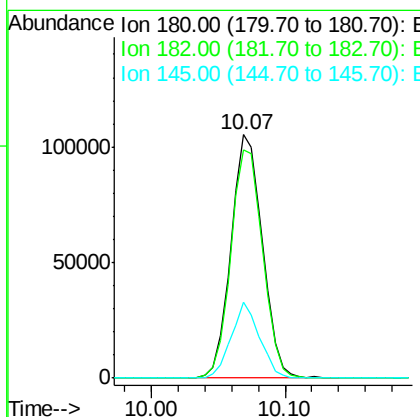
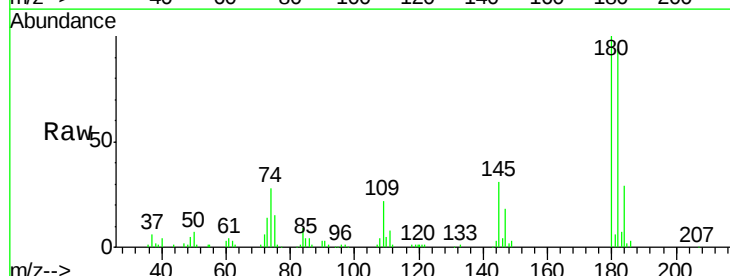
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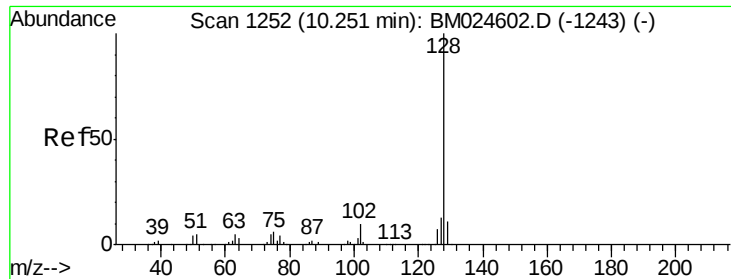
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#30
1,2,4-Trichlorobenzene
Concen: 9.613 ng
RT: 10.07 min Scan# 1221
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	172207		
182	93.8	77.8	116.6	
145	31.3	22.9	34.3	





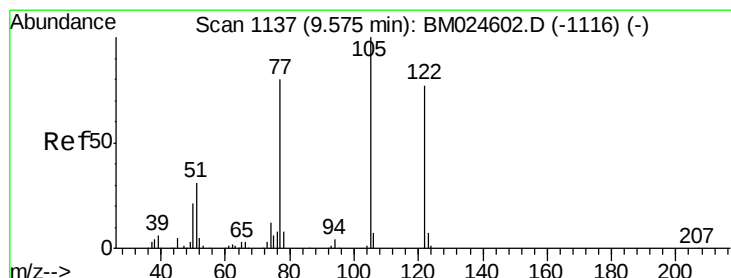
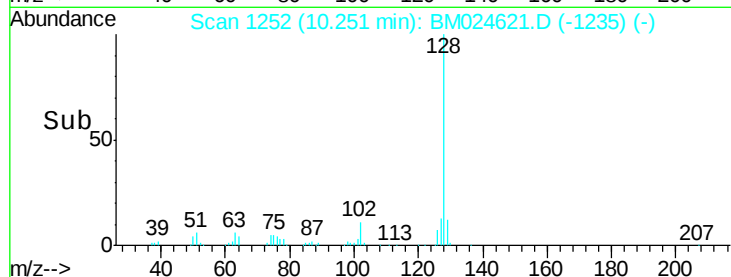
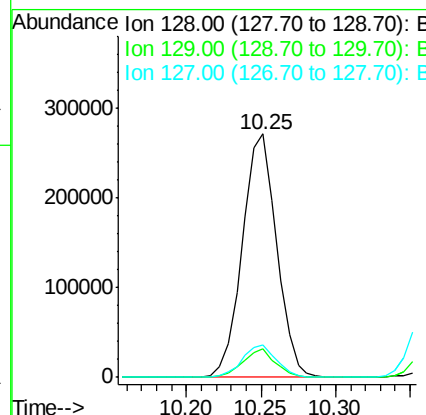
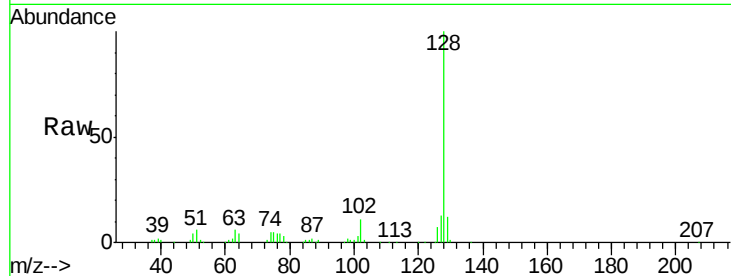
#31
Naphthalene
Concen: 9.607 ng
RT: 10.25 min Scan# 1252
Delta R.T. 0.00 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.8	8.8	13.2
127	13.1	10.6	15.8

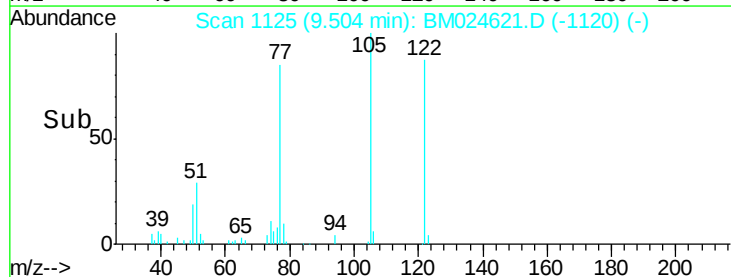
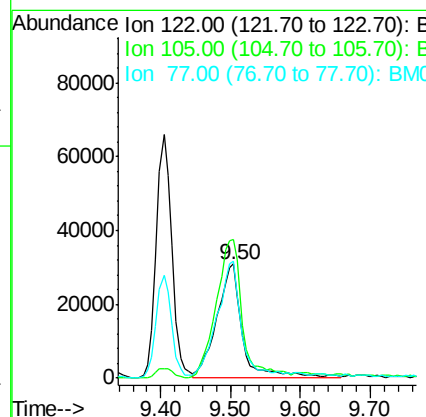
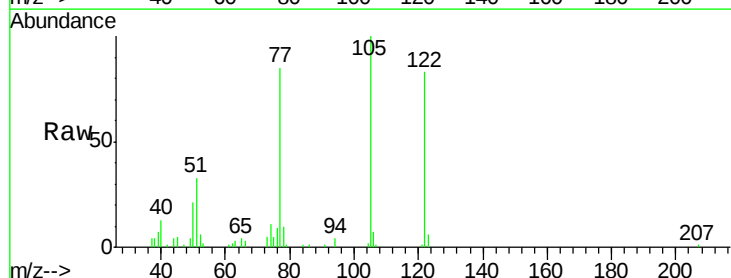
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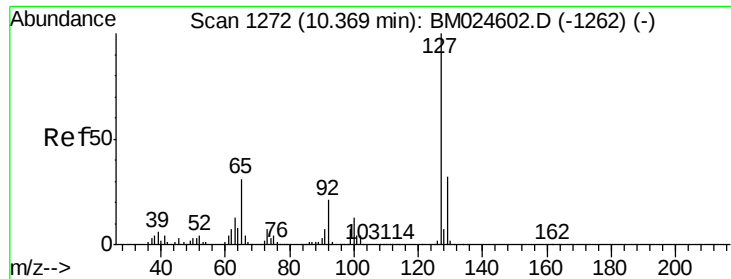
mohammad
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#32
Benzoic acid
Concen: 7.975 ng m
RT: 9.50 min Scan# 1125
Delta R.T. -0.07 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
122	100		
105	121.0	107.7	147.7
77	102.5	83.8	123.8





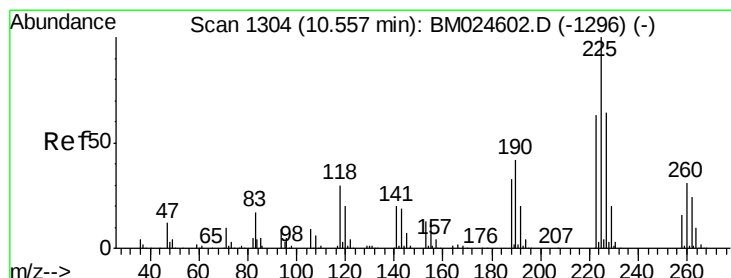
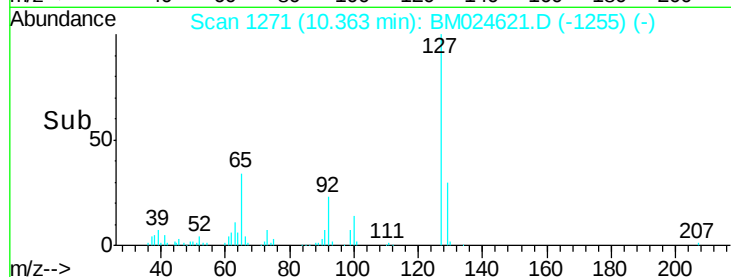
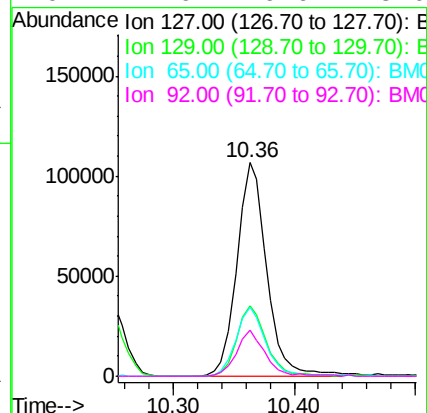
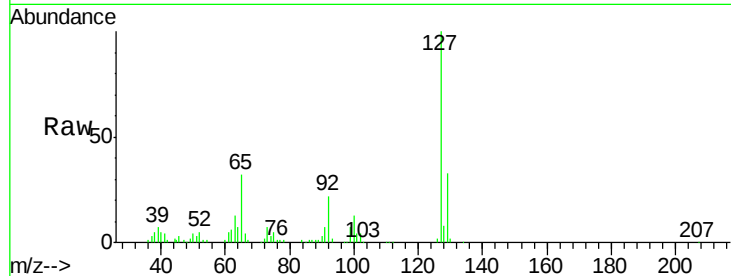
#33
4-Chloroaniline
Concen: 9.284 ng
RT: 10.36 min Scan# 1271
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100				
129	33.1	25.9	38.9		
65	32.2	25.1	37.7		
92	21.9	16.6	25.0		

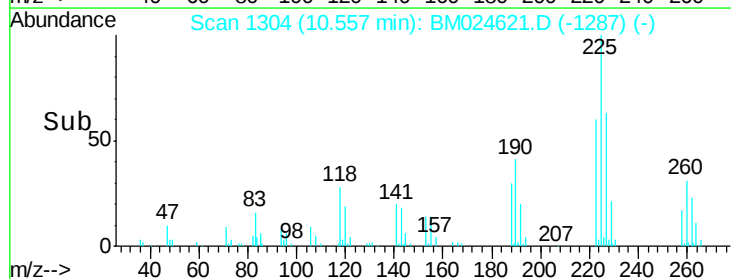
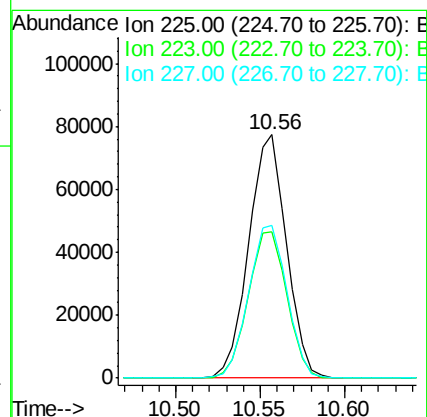
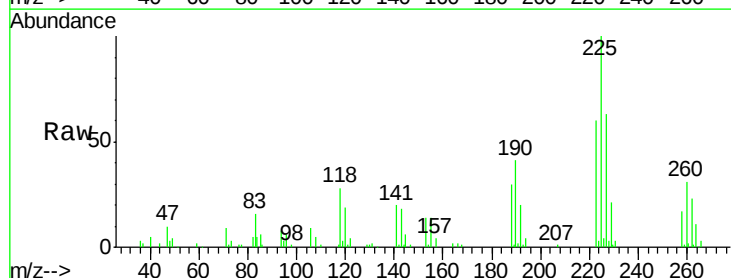
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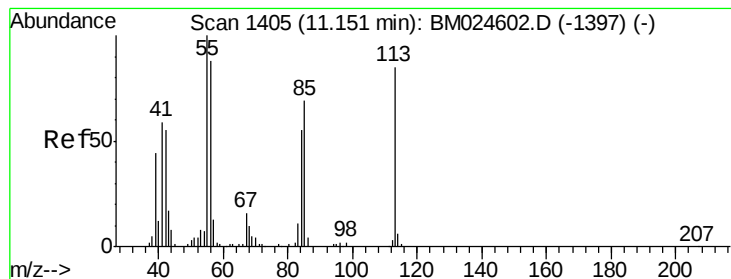
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#34
Hexachlorobutadiene
Concen: 9.691 ng
RT: 10.56 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100				
223	60.3	50.7	76.1		
227	62.7	51.4	77.0		





#35

Caprolactam

Concen: 8.926 ng

RT: 11.13 min Scan# 1401

Delta R.T. -0.02 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

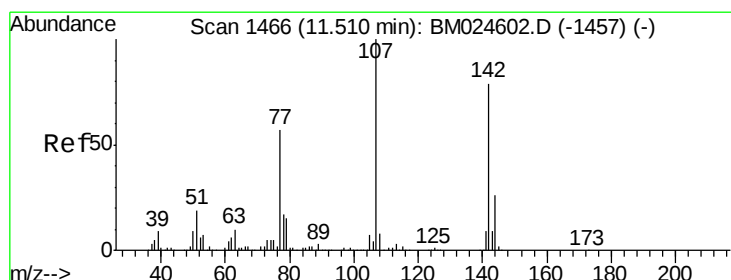
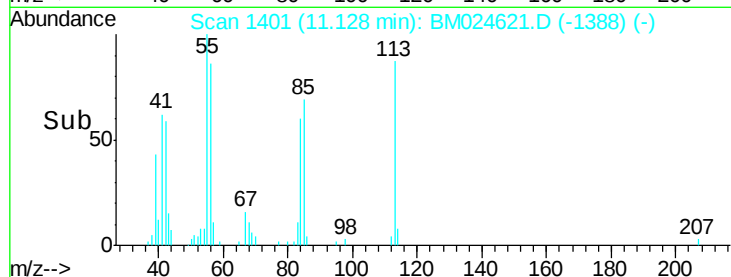
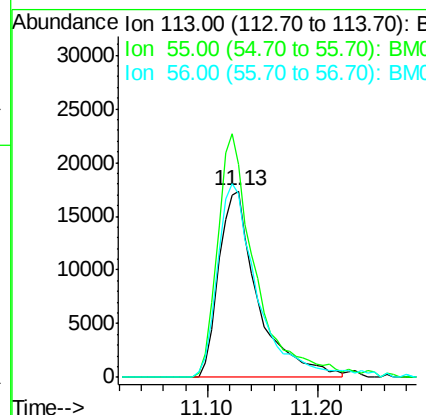
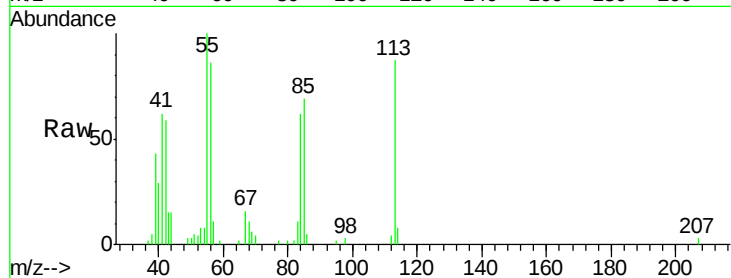
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	113	Resp:	42534
Ion	Ratio	Lower	Upper
113	100		
55	114.4	97.5	137.5
56	98.2	83.4	123.4

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#36

4-Chloro-3-methylphenol

Concen: 9.048 ng

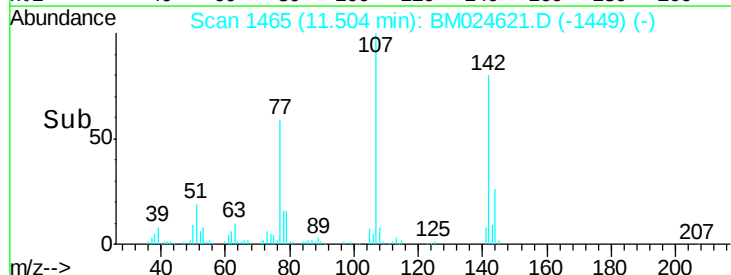
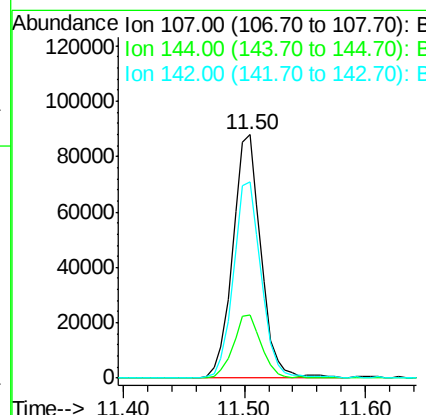
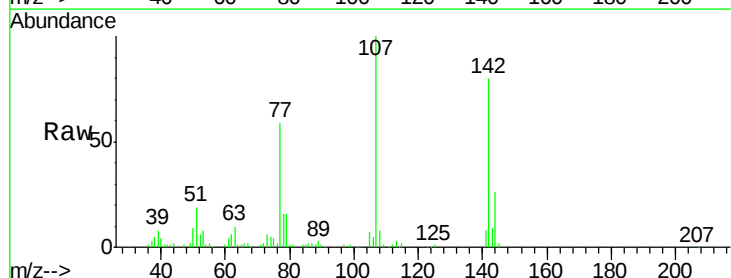
RT: 11.50 min Scan# 1465

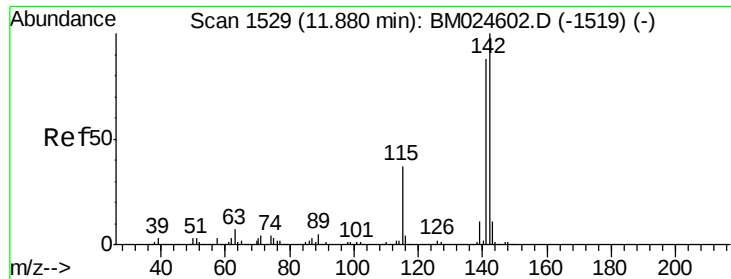
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	107	Resp:	142913
Ion	Ratio	Lower	Upper
107	100		
144	26.0	20.5	30.7
142	80.4	62.8	94.2





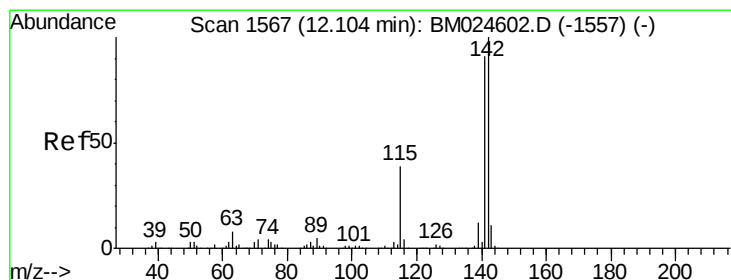
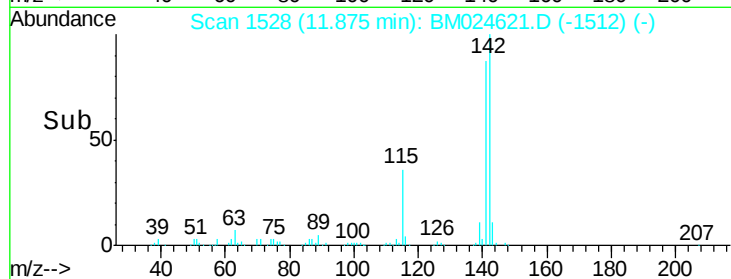
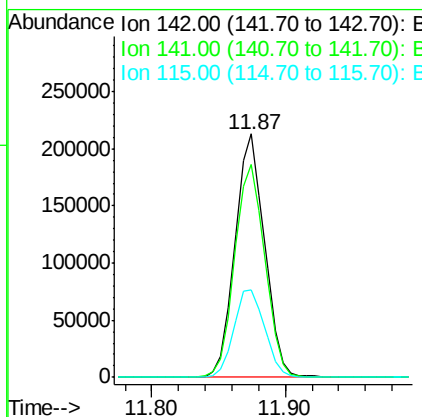
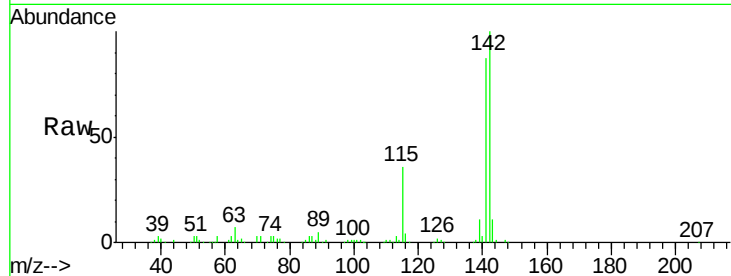
#37
2-Methylnaphthalene
Concen: 9.418 ng
RT: 11.87 min Scan# 1528
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.2	70.2	105.2
115	36.1	29.7	44.5

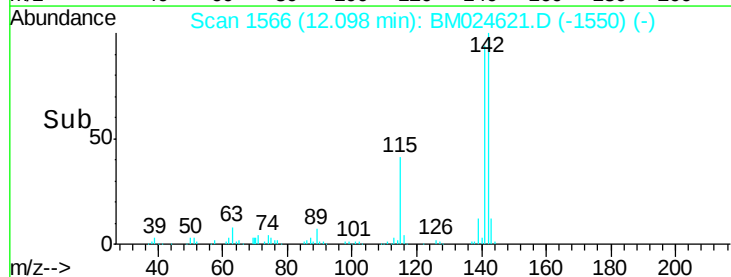
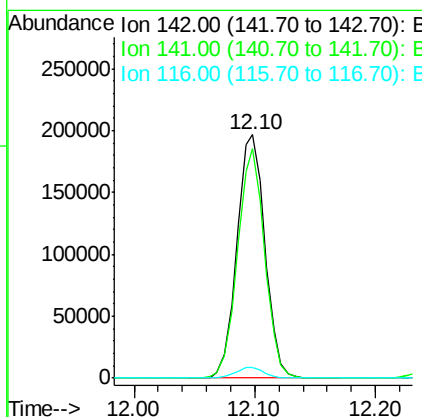
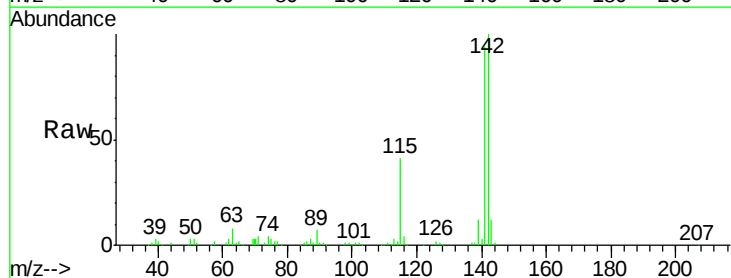
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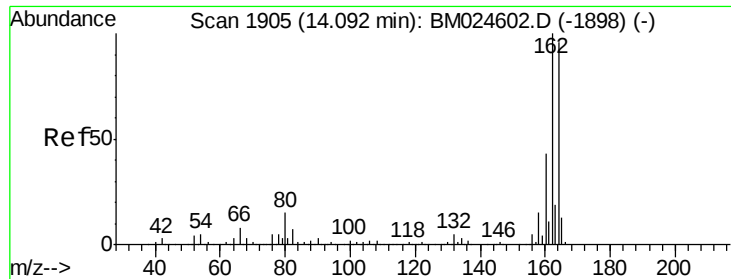
mohammad
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#38
1-Methylnaphthalene
Concen: 9.586 ng
RT: 12.10 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.2	72.8	109.2
116	4.2	3.2	4.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.09 min Scan# 1905

Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

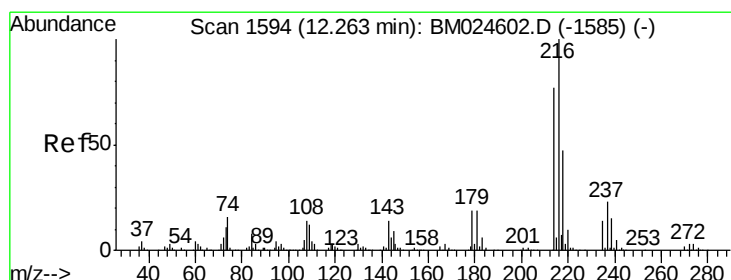
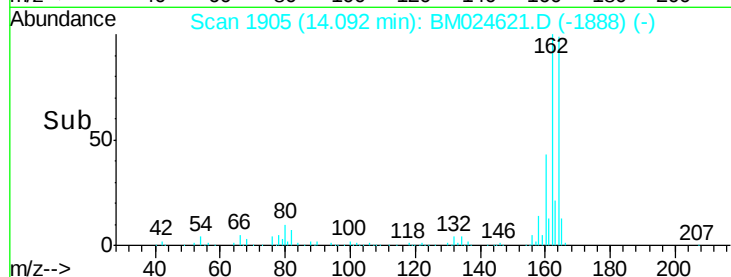
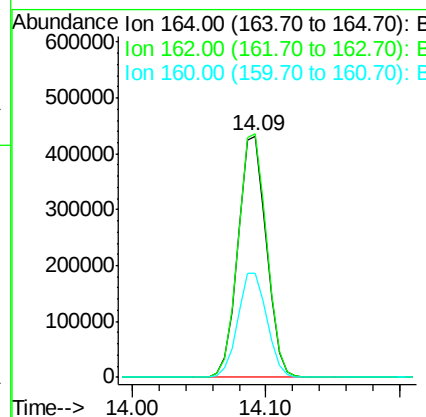
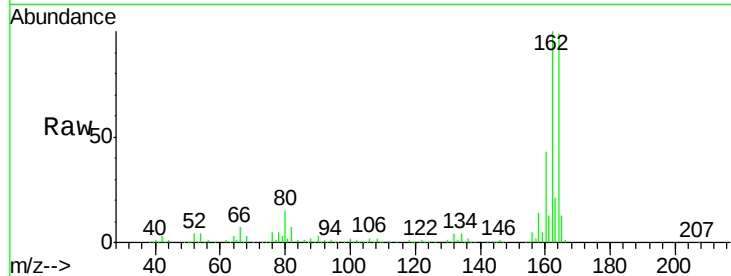
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	164	Resp:	635176
Ion Ratio	Lower	Upper	
164	100		
162	100.9	82.9	124.3
160	43.2	35.5	53.3

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#40

1,2,4,5-Tetrachlorobenzene

Concen: 9.451 ng

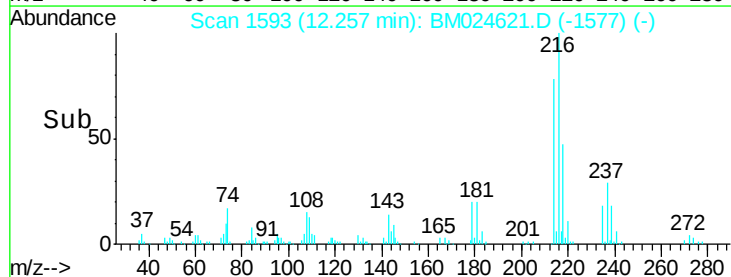
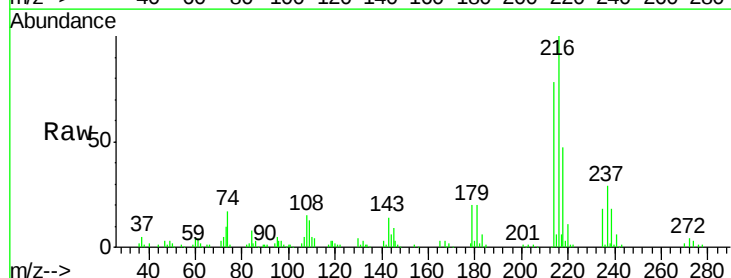
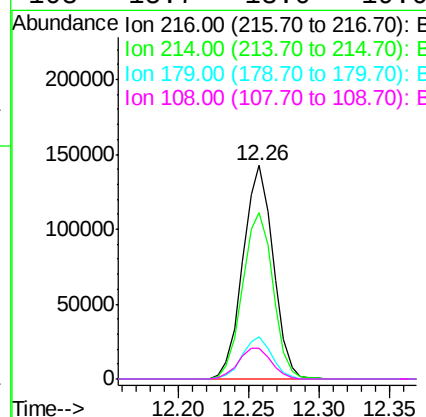
RT: 12.26 min Scan# 1593

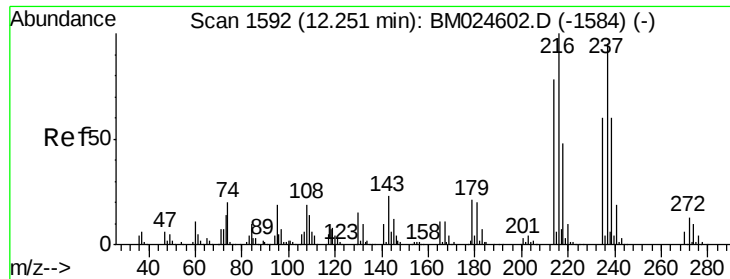
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	216	Resp:	214240
Ion Ratio	Lower	Upper	
216	100		
214	78.6	62.3	93.5
179	19.6	16.1	24.1
108	15.7	13.0	19.6





#41

Hexachlorocyclopentadiene

Concen: 8.935 ng

RT: 12.25 min Scan# 1591

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

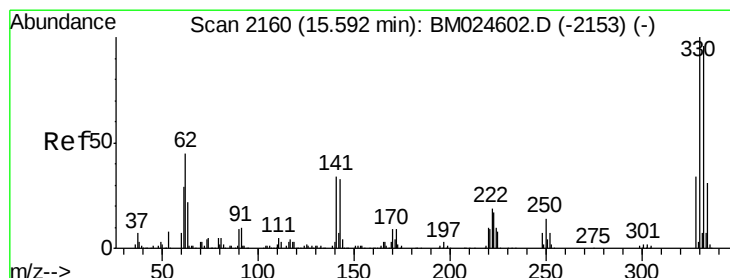
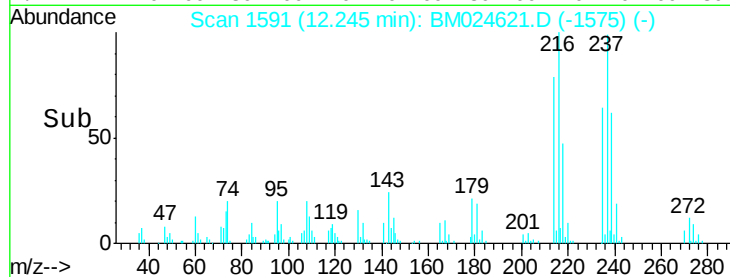
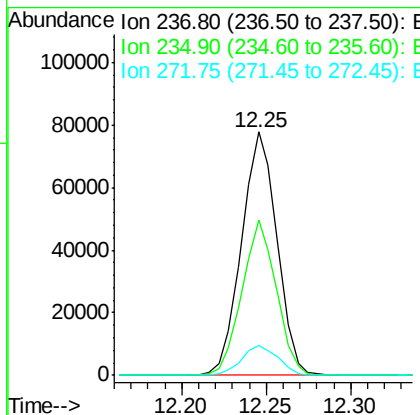
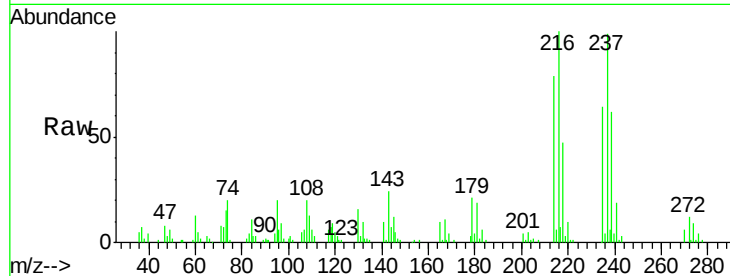
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	237	Resp:	113528
Ion Ratio	Lower	Upper	
237	100		
235	63.9	43.3	83.3
272	12.0	0.0	33.4

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#42

2,4,6-Tribromophenol

Concen: 125.737 ng

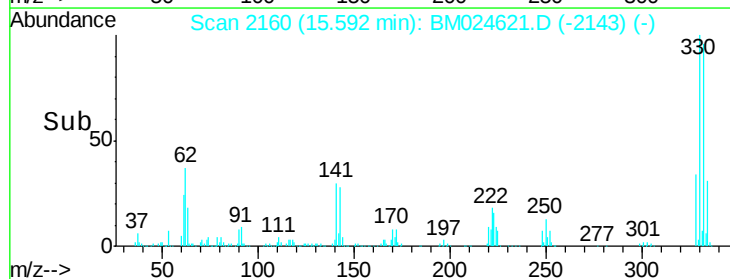
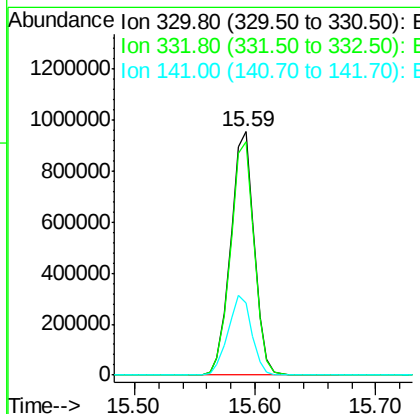
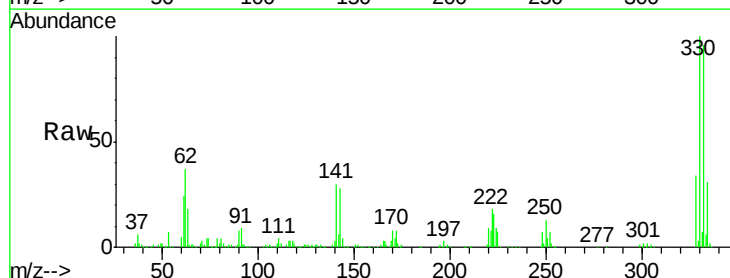
RT: 15.59 min Scan# 2160

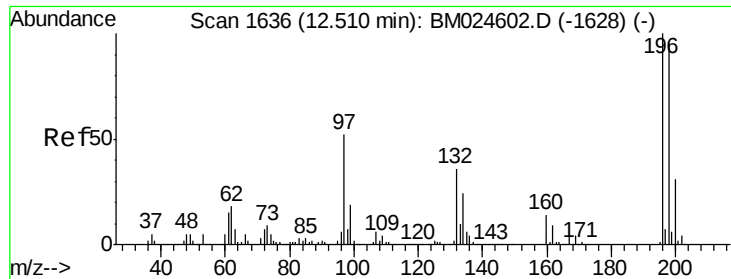
Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	330	Resp:	1299125
Ion Ratio	Lower	Upper	
330	100		
332	96.7	77.2	115.8
141	32.9	26.9	40.3





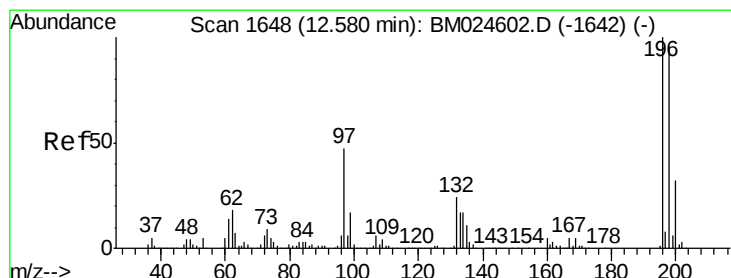
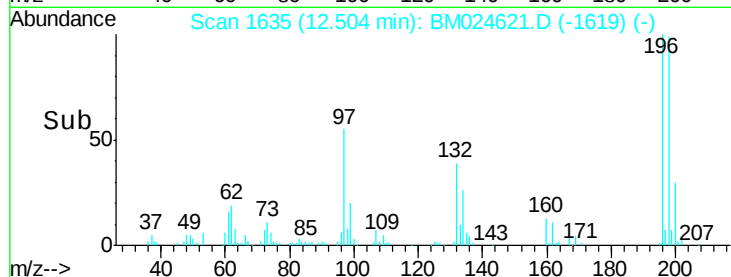
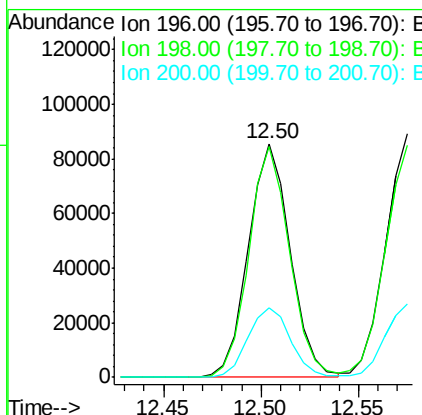
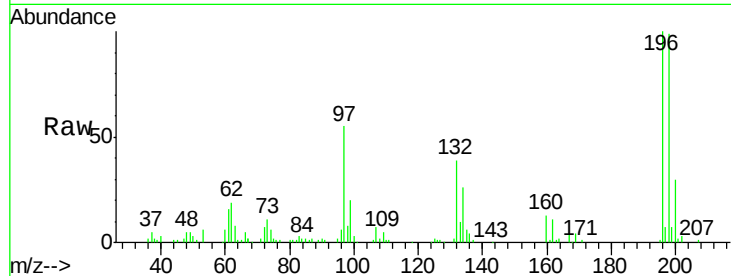
#43
 2,4,6-Trichlorophenol
 Concen: 8.780 ng
 RT: 12.50 min Scan# 1635
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
196	100	126663		
198	99.0	76.5	114.7	
200	29.6	25.0	37.6	

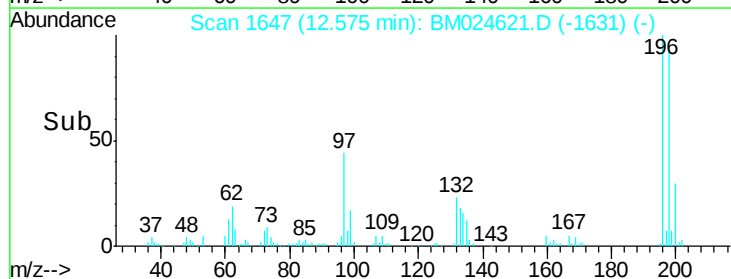
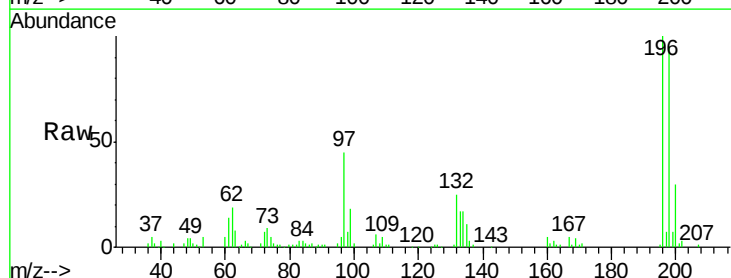
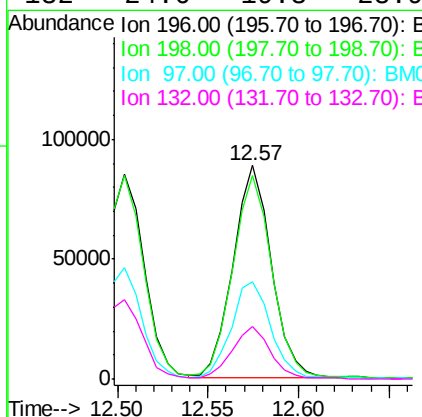
Manual Integrations
 APPROVED

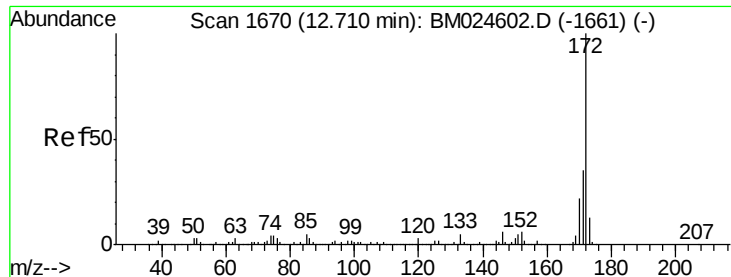
mohammad
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#44
 2,4,5-Trichlorophenol
 Concen: 8.764 ng
 RT: 12.57 min Scan# 1647
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	129112		
198	95.4	77.2	115.8	
97	45.5	37.4	56.0	
132	24.6	19.3	28.9	





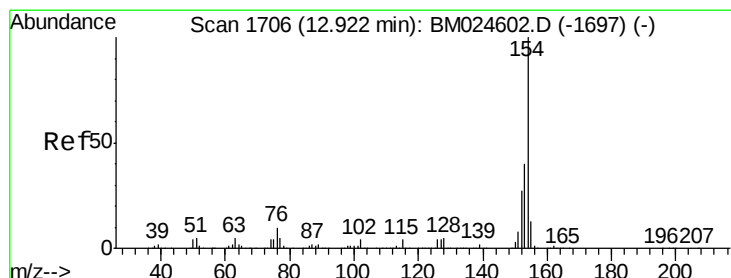
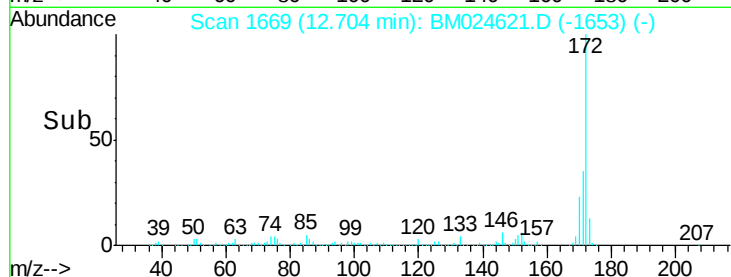
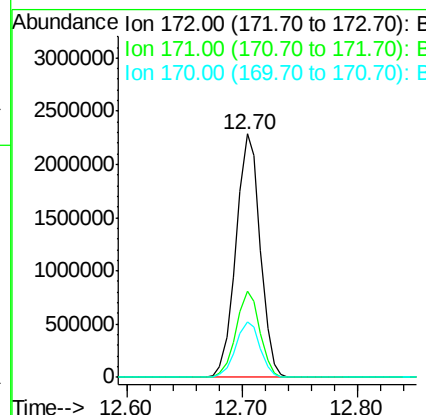
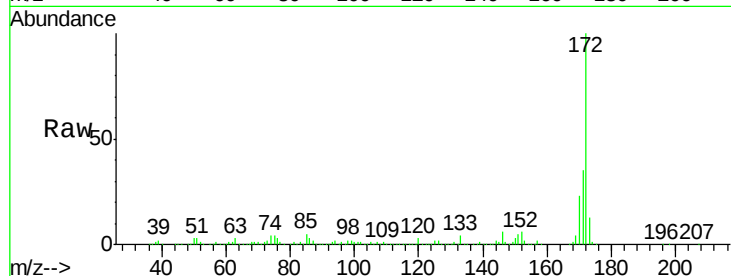
#45
2-Fluorobiphenyl
Concen: 71.001 ng
RT: 12.70 min Scan# 1669
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.3	42.5
170	22.6	17.9	26.9

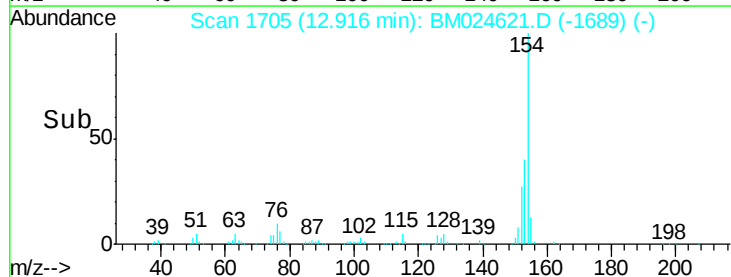
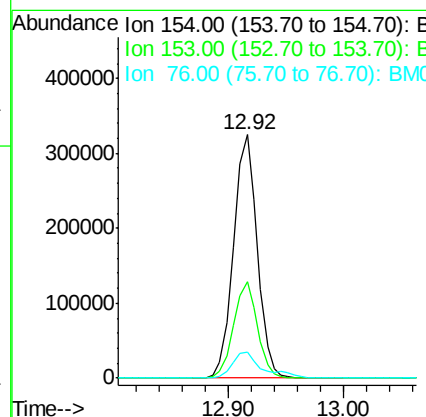
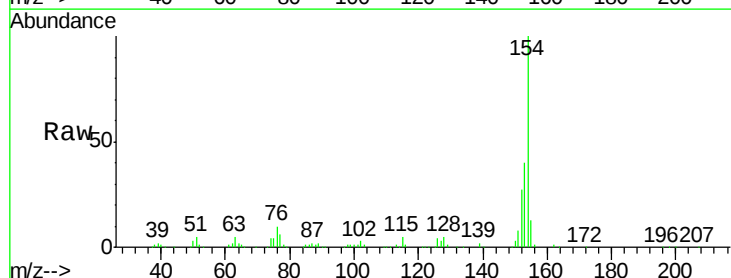
Manual Integrations
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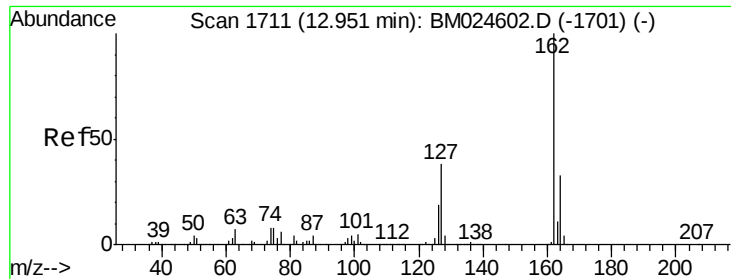
mohammad
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#46
1,1'-Biphenyl
Concen: 9.597 ng
RT: 12.92 min Scan# 1705
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.3	60.3
76	10.5	0.0	30.5





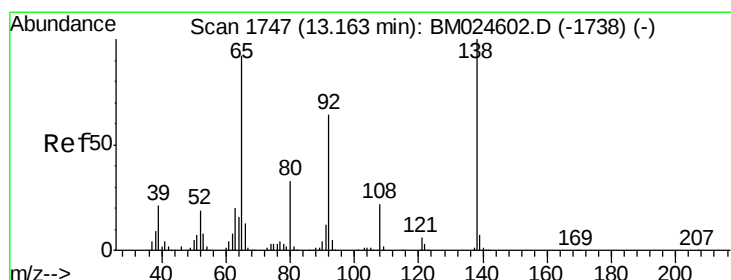
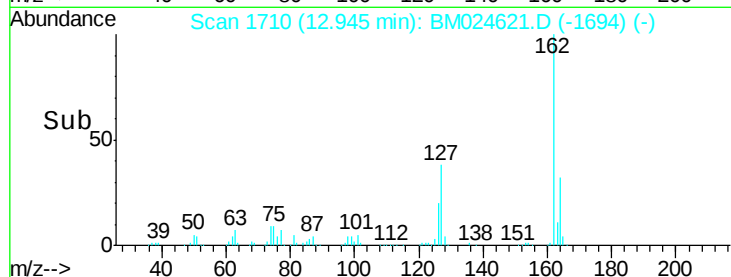
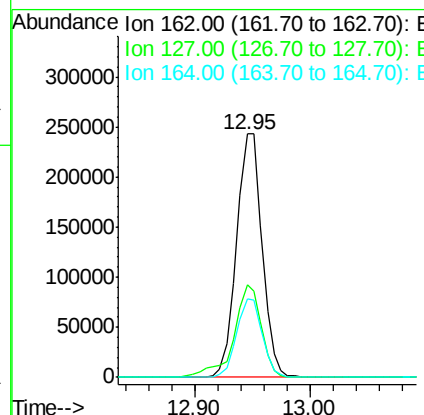
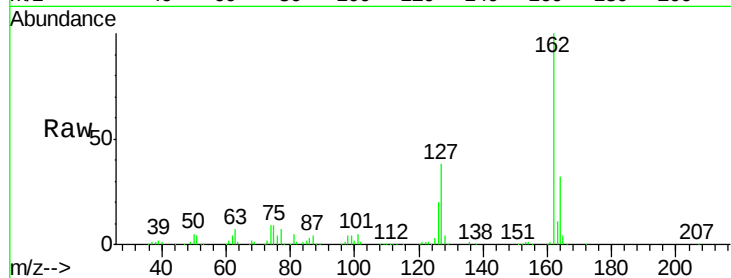
#47
2-Chloronaphthalene
Concen: 9.630 ng
RT: 12.95 min Scan# 1710
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
162	100		
127	38.2	30.4	45.6
164	32.3	26.5	39.7

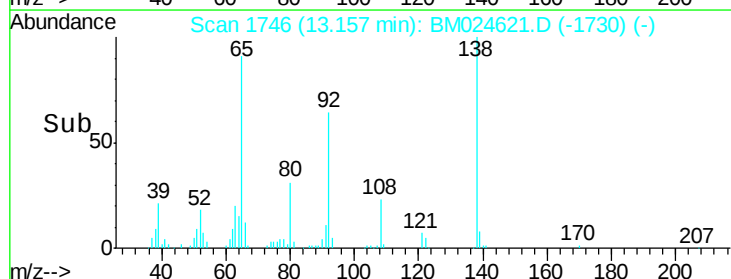
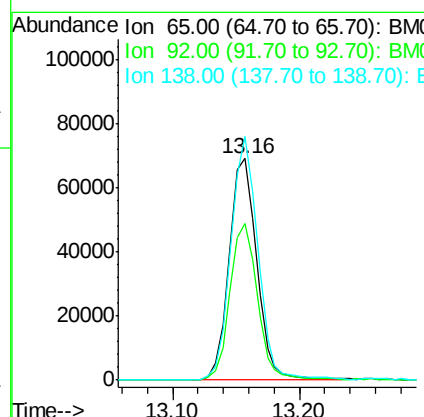
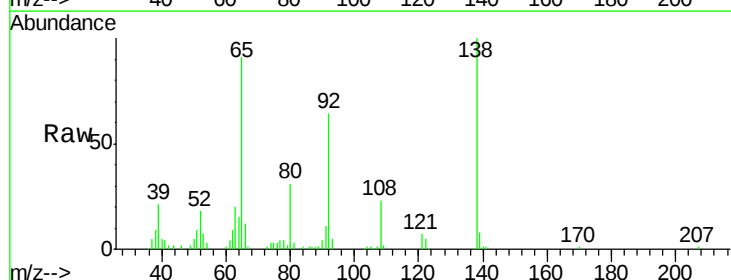
Manual Integrations
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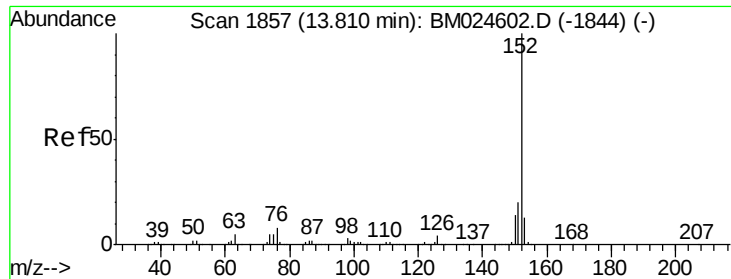
mohammad
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#48
2-Nitroaniline
Concen: 8.881 ng
RT: 13.16 min Scan# 1746
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
65	100		
92	70.8	55.4	83.2
138	110.0	86.6	129.8





#49

Acenaphthylene

Concen: 9.439 ng

RT: 13.80 min Scan# 1856

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

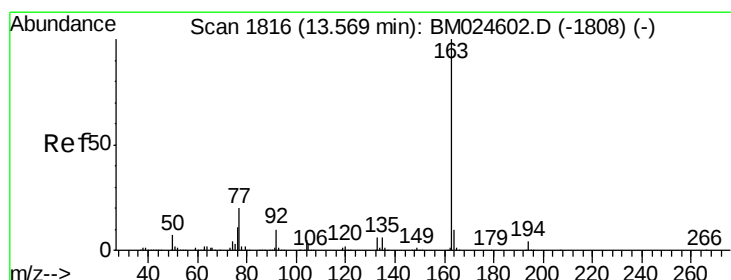
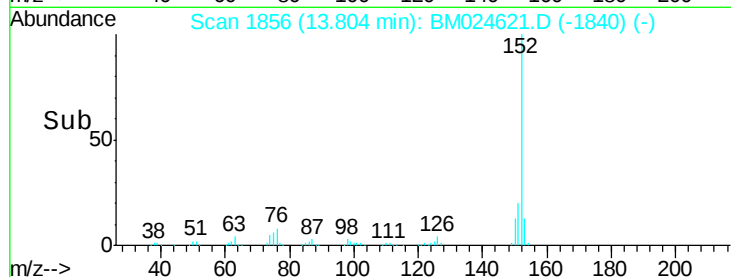
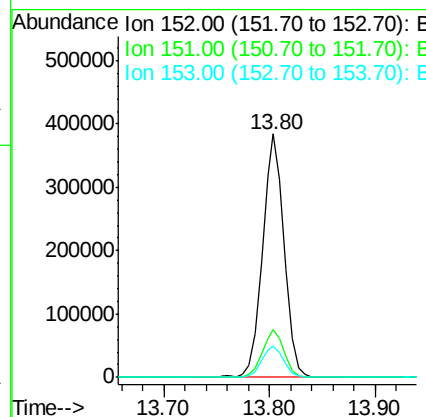
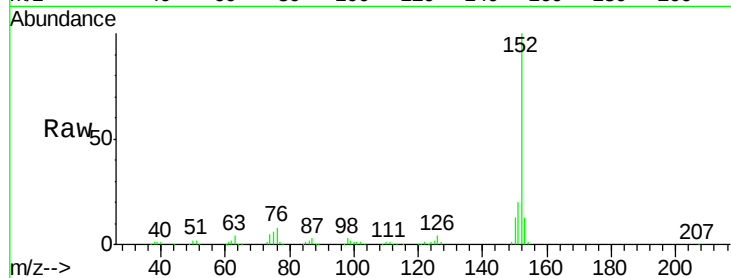
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	152	Resp:	548321
Ion Ratio	Lower	Upper	
152	100		
151	19.6	15.8	23.6
153	13.0	10.4	15.6

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#50

Dimethylphthalate

Concen: 9.564 ng

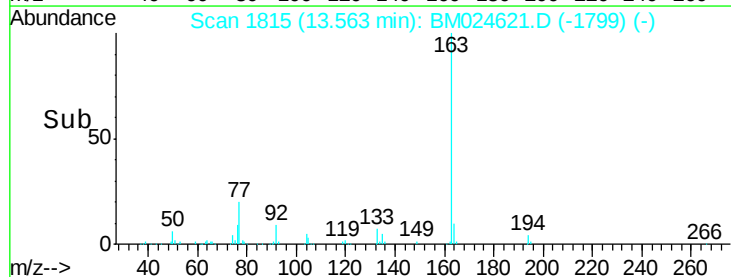
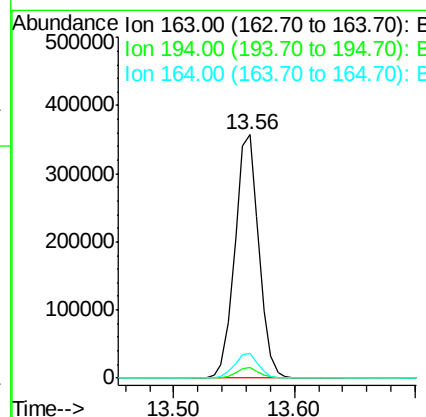
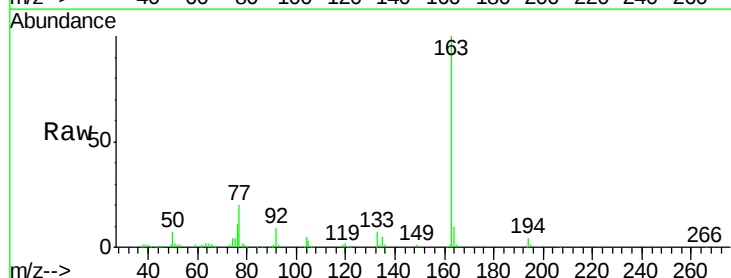
RT: 13.56 min Scan# 1815

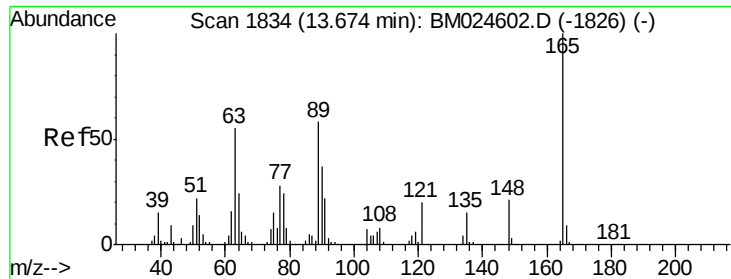
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	163	Resp:	491224
Ion Ratio	Lower	Upper	
163	100		
194	4.2	3.4	5.0
164	10.2	8.0	12.0





#51

2,6-Dinitrotoluene

Concen: 9.049 ng

RT: 13.67 min Scan# 1833

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

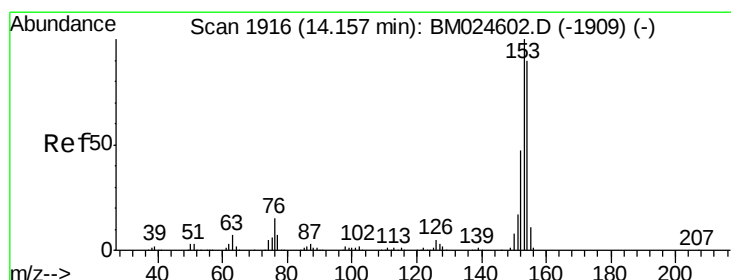
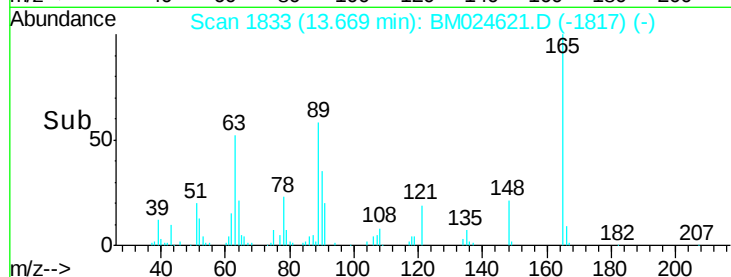
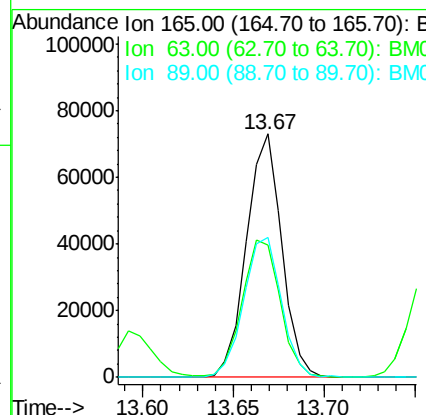
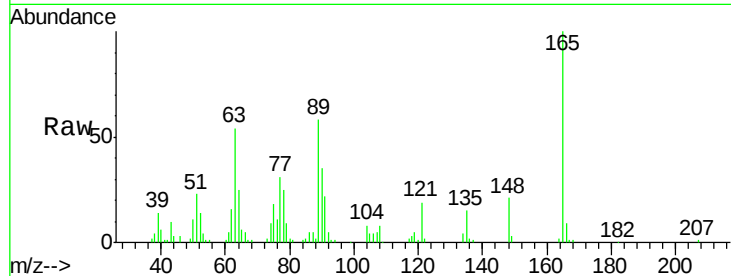
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	165	Resp:	98815
Ion Ratio		Lower	Upper
165	100		
63	54.5	45.4	68.0
89	57.6	46.6	69.8

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#52

Acenaphthene

Concen: 9.495 ng

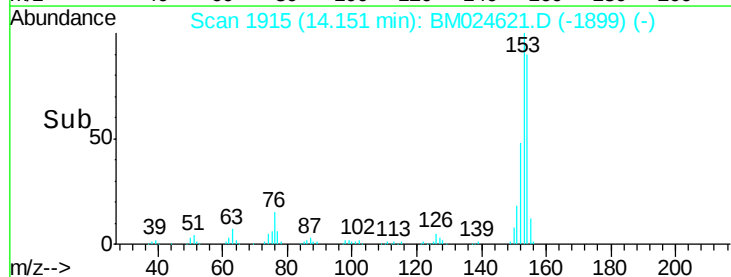
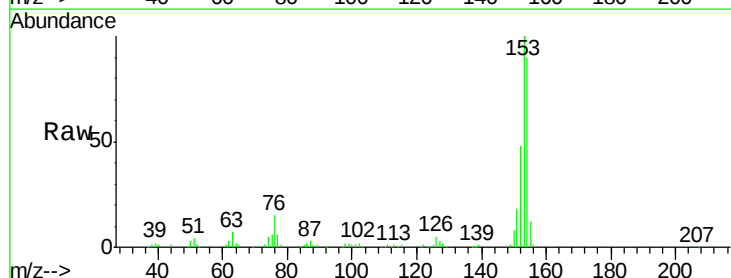
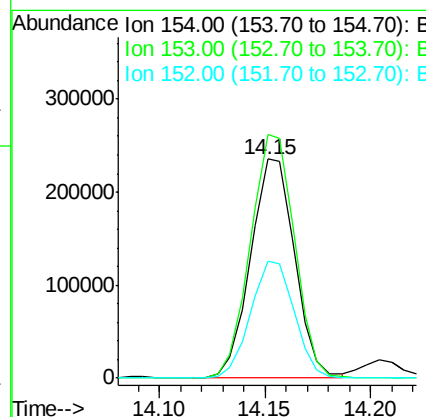
RT: 14.15 min Scan# 1915

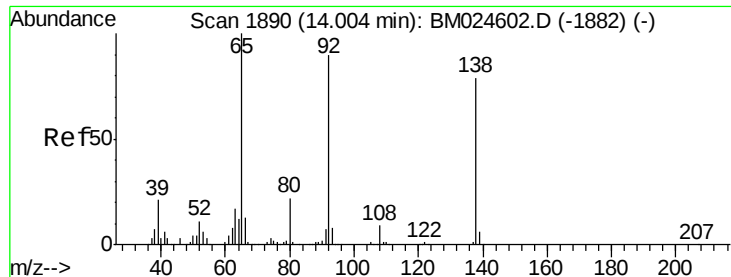
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	154	Resp:	342295
Ion Ratio		Lower	Upper
154	100		
153	111.3	89.1	133.7
152	53.6	41.9	62.9





#53

3-Nitroaniline

Concen: 9.004 ng

RT: 13.99 min Scan# 1888

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

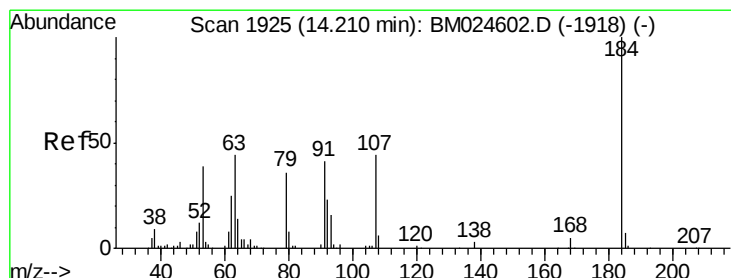
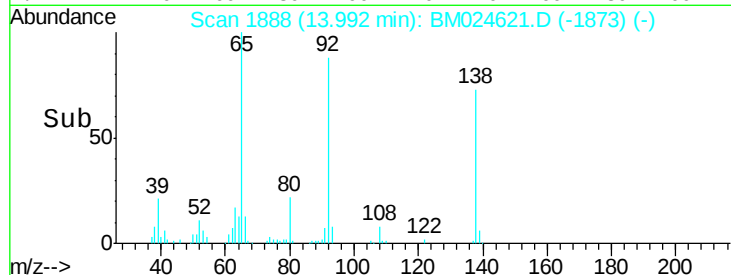
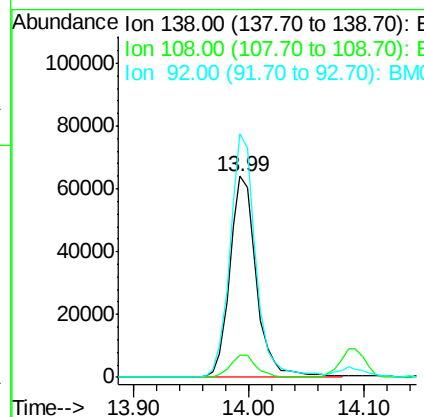
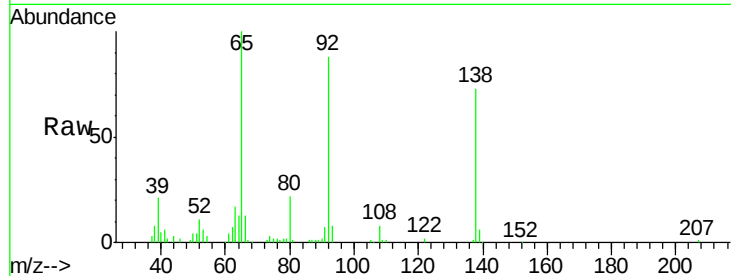
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.7	13.1
92	121.0	91.0	136.4

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#54

2,4-Dinitrophenol

Concen: 6.724 ng

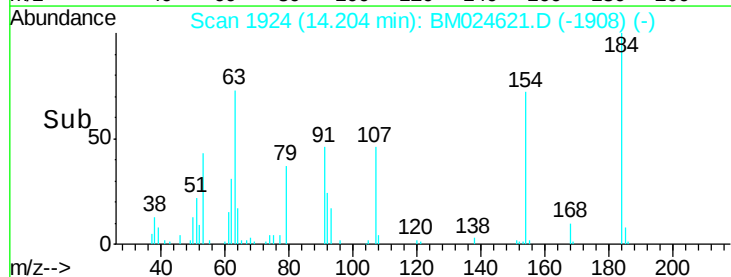
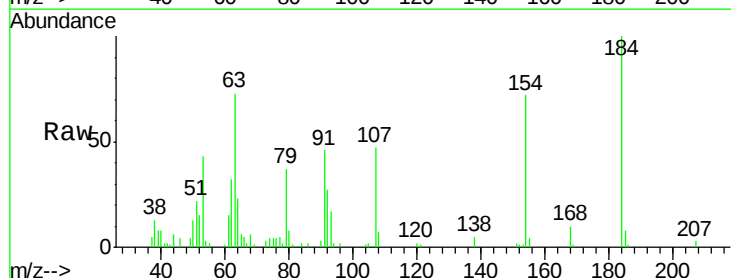
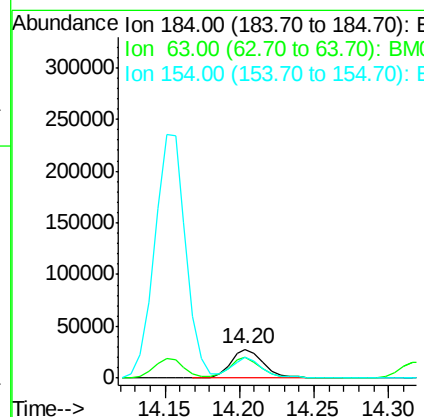
RT: 14.20 min Scan# 1924

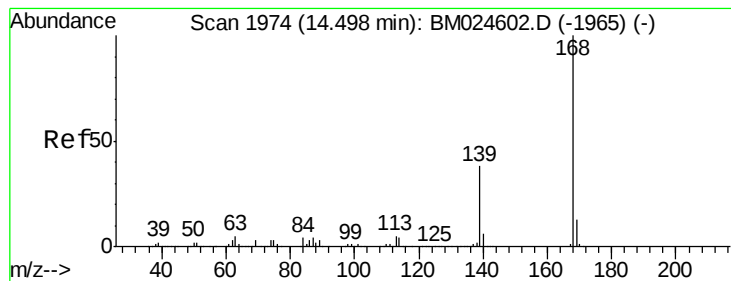
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
184	100		
63	73.3	51.8	77.8
154	72.1	50.2	75.4





#55

Dibenzofuran

Concen: 9.512 ng

RT: 14.49 min Scan# 1973

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

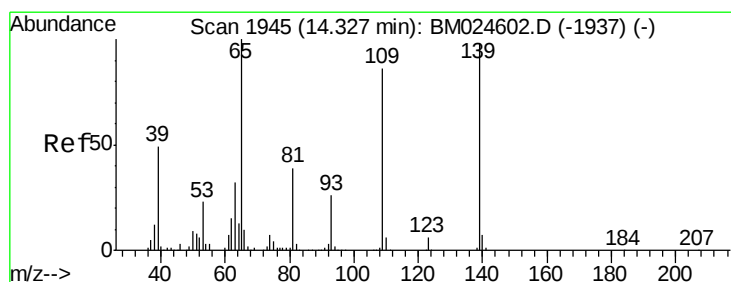
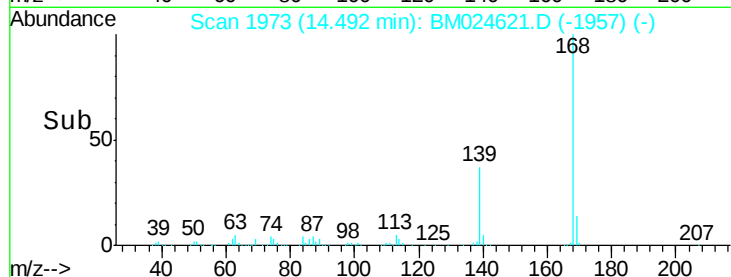
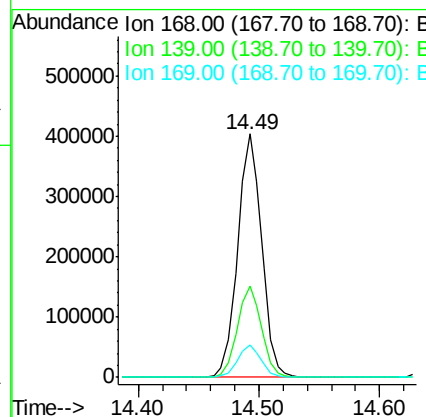
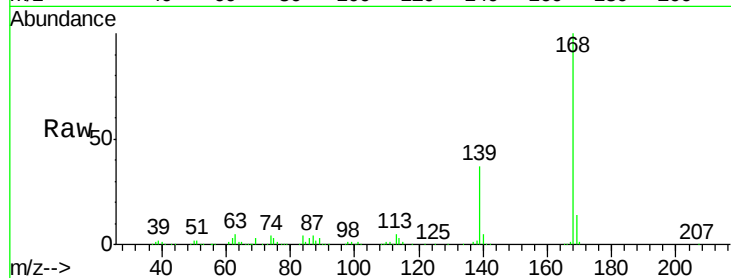
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	168	Resp:	559193
Ion Ratio	Lower	Upper	
168	100		
139	37.3	30.2	45.4
169	13.5	10.7	16.1

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#56

4-Nitrophenol

Concen: 8.164 ng

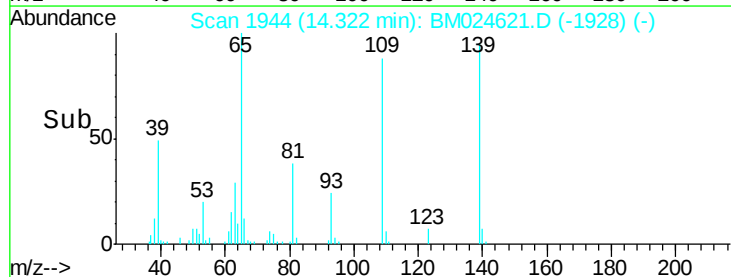
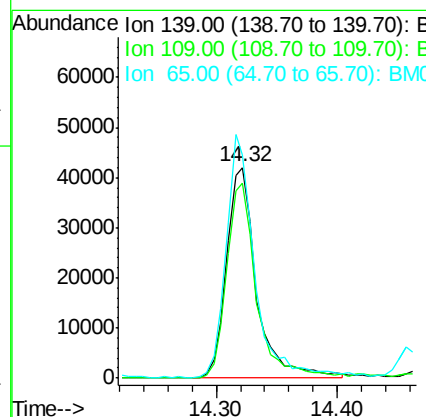
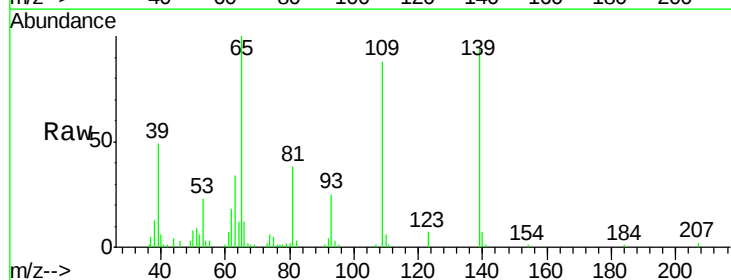
RT: 14.32 min Scan# 1944

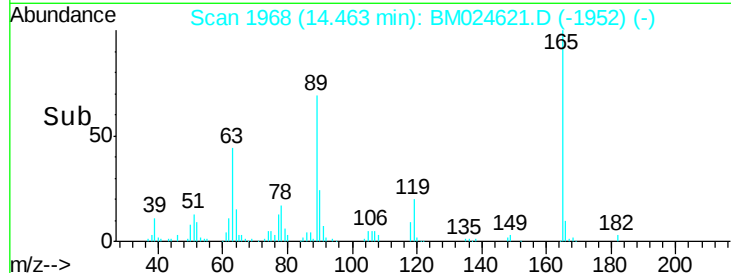
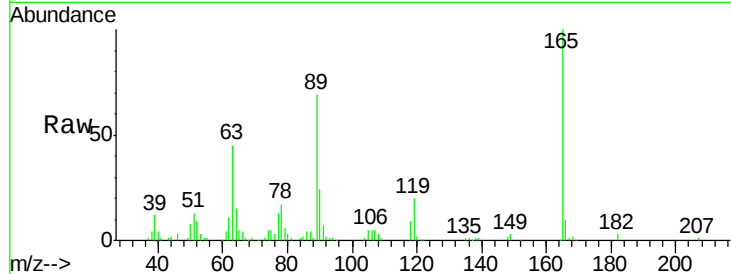
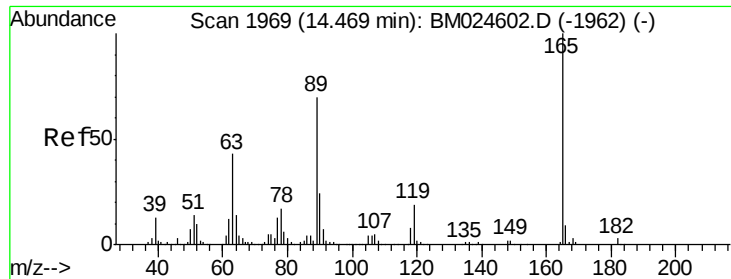
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	139	Resp:	72282
Ion Ratio	Lower	Upper	
139	100		
109	92.7	67.4	107.4
65	105.9	82.1	122.1





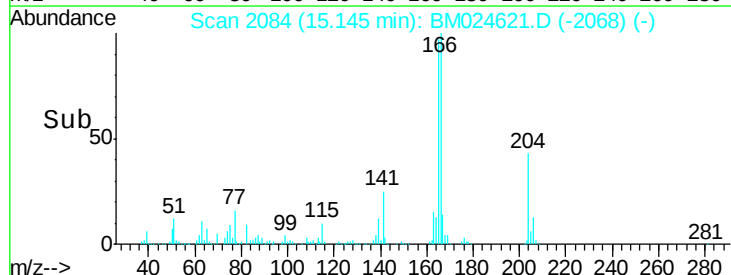
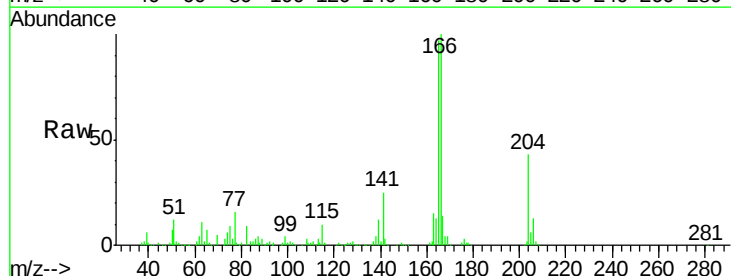
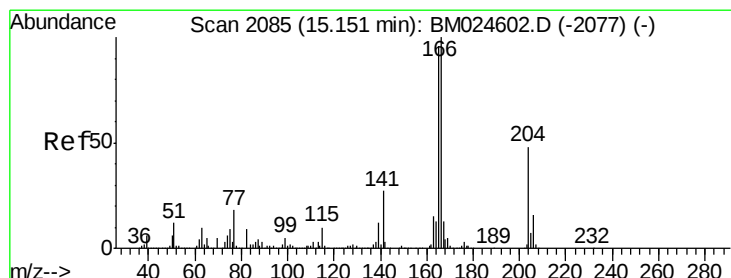
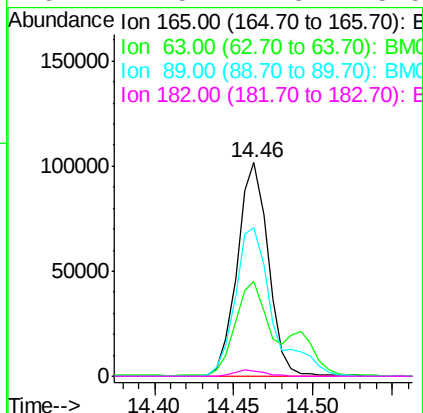
#57
2,4-Dinitrotoluene
Concen: 8.838 ng
RT: 14.46 min Scan# 1968
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
165	100	138319		
63	44.5		34.5	51.7
89	69.3		55.8	83.8
182	2.5		2.3	3.5

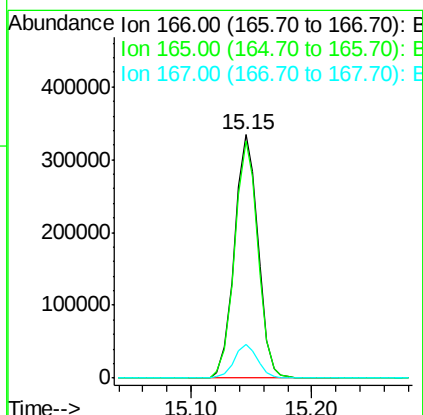
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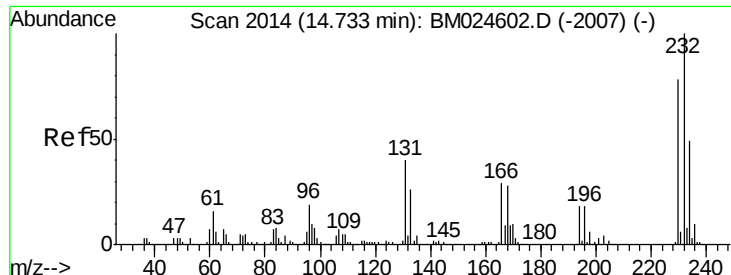
mohammad
1/28/2020 8:13:13 AM



#58
Fluorene
Concen: 9.245 ng
RT: 15.15 min Scan# 2084
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	456763		
165	97.4		76.6	114.8
167	13.7		10.8	16.2





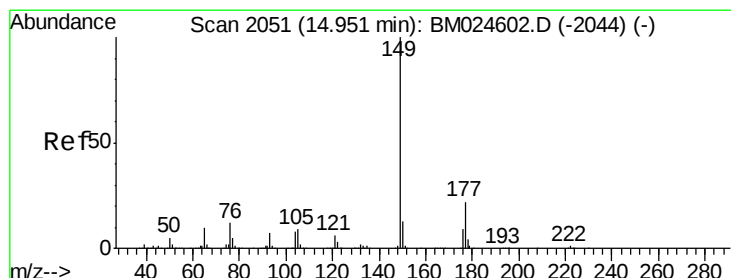
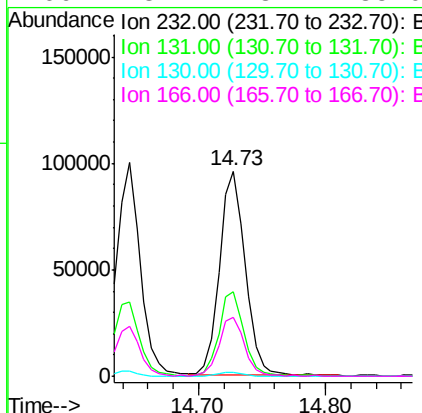
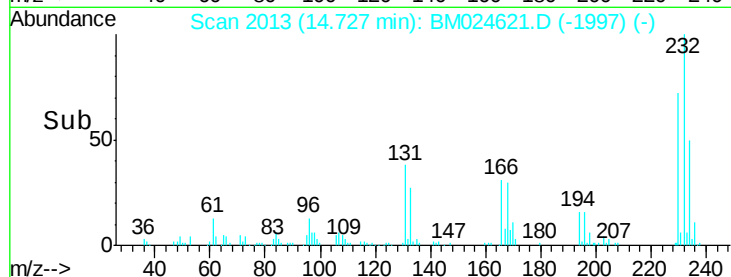
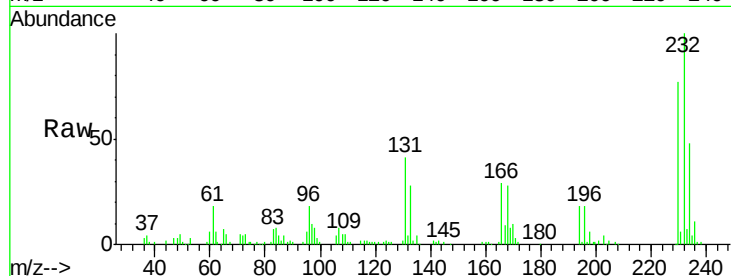
#59
 2,3,4,6-Tetrachlorophenol
 Concen: 9.018 ng
 RT: 14.73 min Scan# 2013
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
232	100	134726		
131	40.6	32.2	48.4	
130	2.1	1.9	2.9	
166	28.7	23.4	35.0	

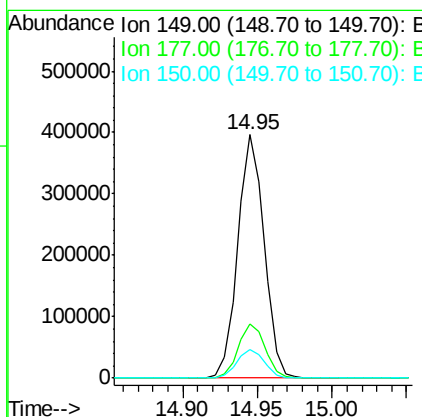
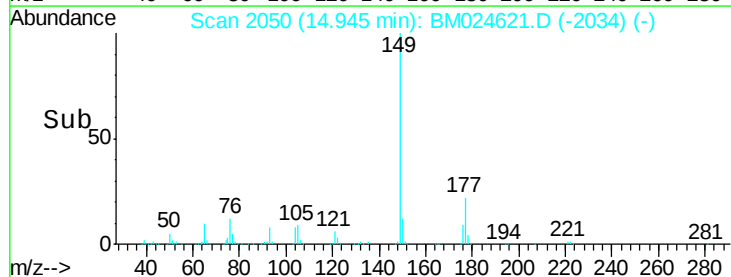
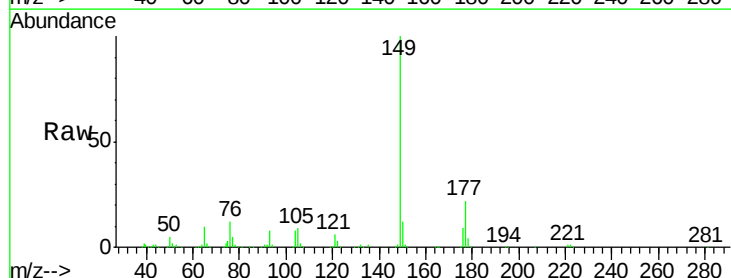
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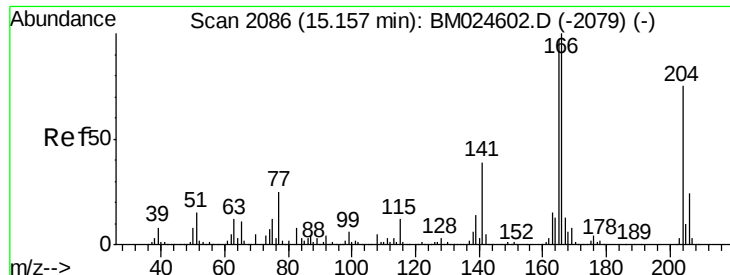
mohammad
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#60
 Diethylphthalate
 Concen: 9.333 ng
 RT: 14.95 min Scan# 2050
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	486677		
177	22.3	18.0	27.0	
150	11.9	10.2	15.4	





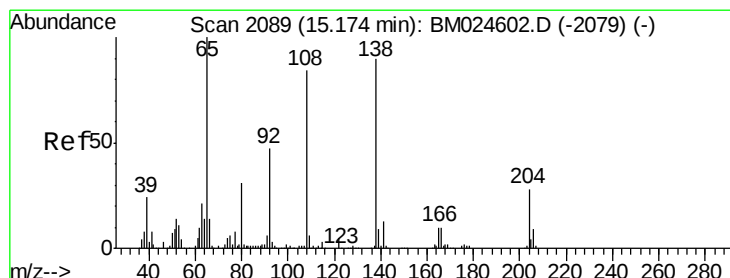
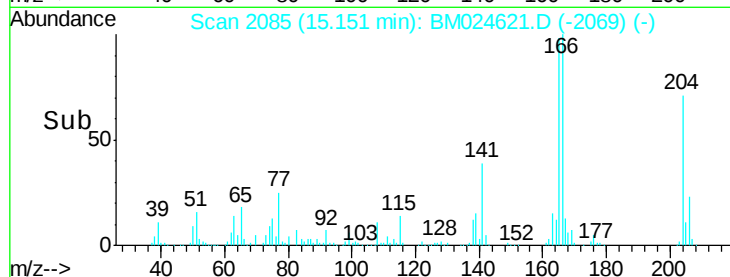
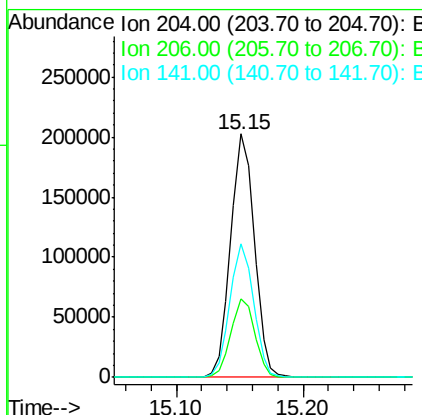
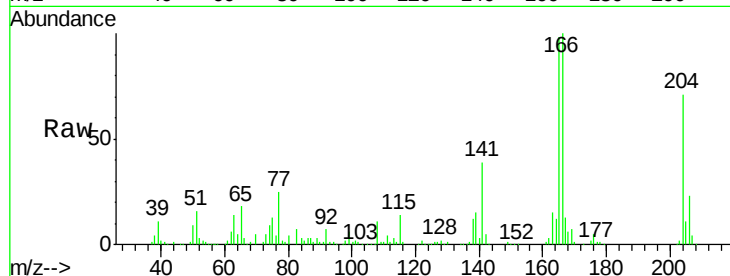
#61
 4-Chlorophenyl-phenylether
 Concen: 9.238 ng
 RT: 15.15 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion:	204	Resp:	263121
Ion Ratio	Lower	Upper	
204	100		
206	32.3	26.2	39.2
141	54.9	42.2	63.2

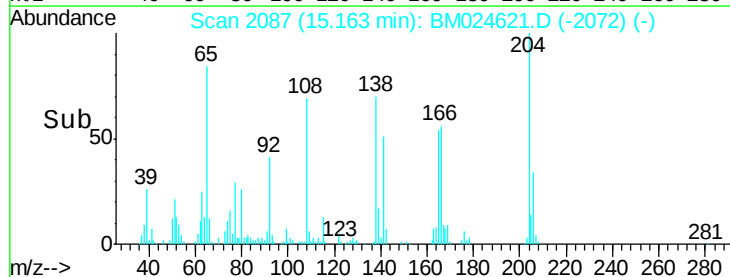
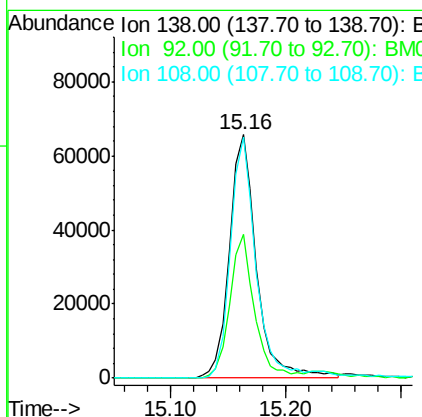
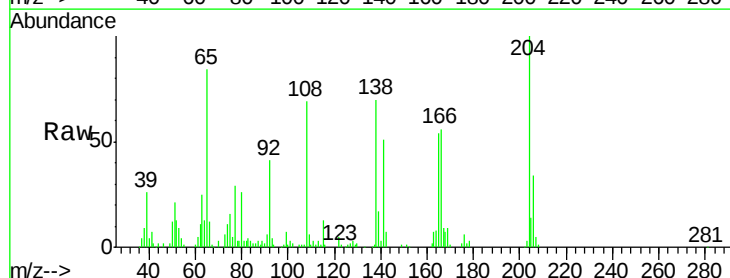
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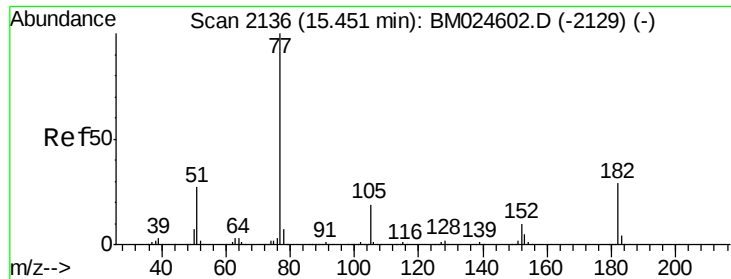
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#62
 4-Nitroaniline
 Concen: 8.533 ng
 RT: 15.16 min Scan# 2087
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Tgt Ion:	138	Resp:	106681
Ion Ratio	Lower	Upper	
138	100		
92	58.9	32.4	72.4
108	99.1	73.3	113.3





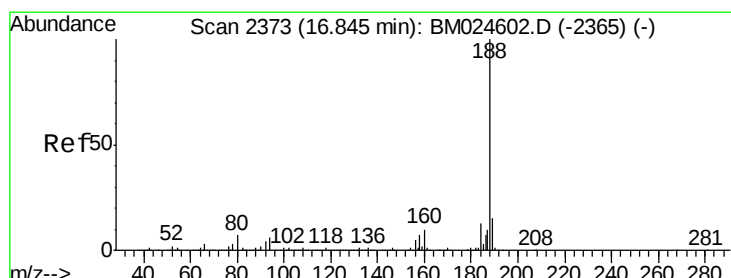
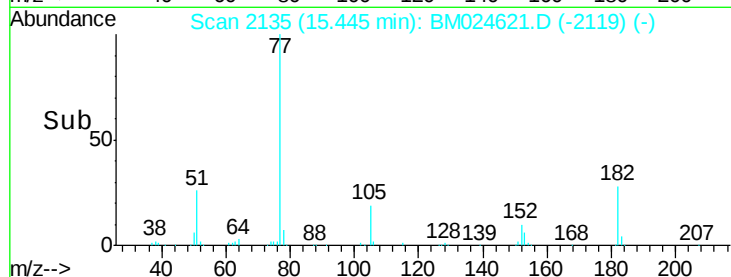
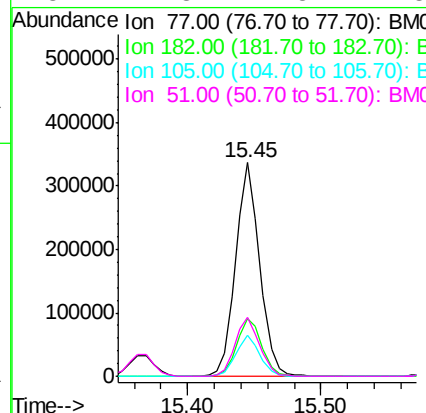
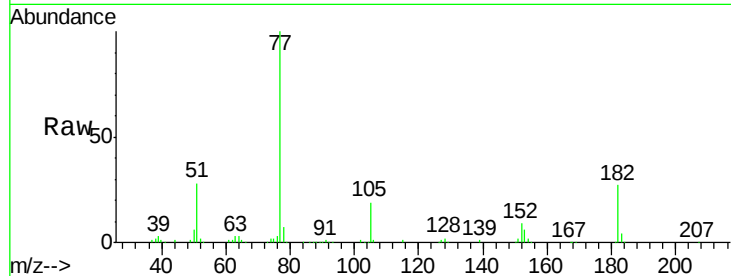
#63
Azobenzene
Concen: 9.497 ng
RT: 15.45 min Scan# 2135
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
77	100		422422		
182	27.1	8.7	48.7		
105	18.9	0.0	39.2		
51	27.8	7.5	47.5		

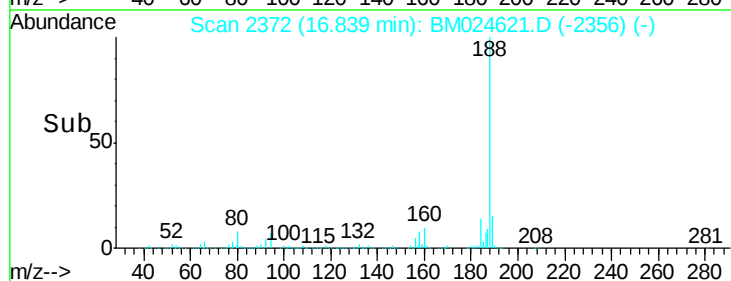
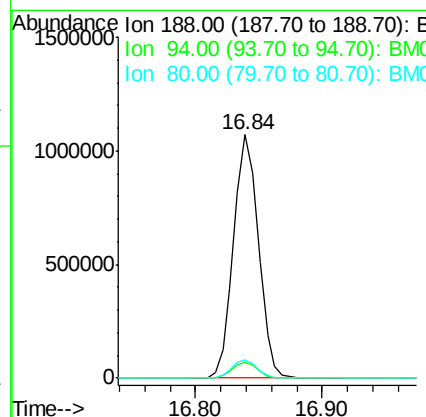
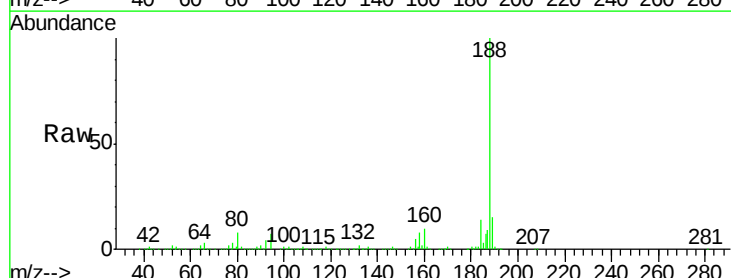
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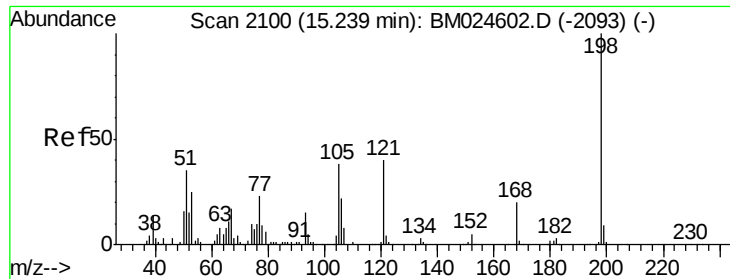
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.84 min Scan# 2372
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		1457373		
94	6.6	5.0	7.6		
80	7.6	5.8	8.8		





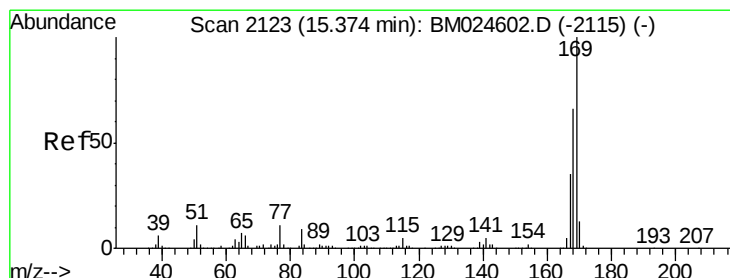
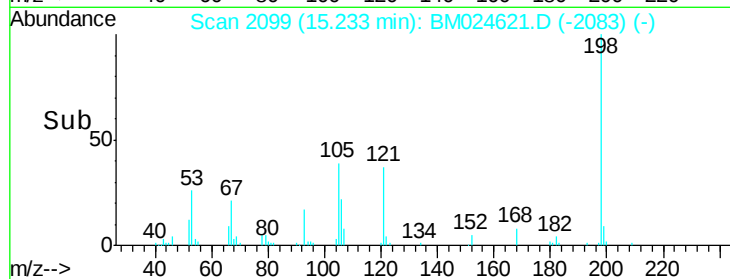
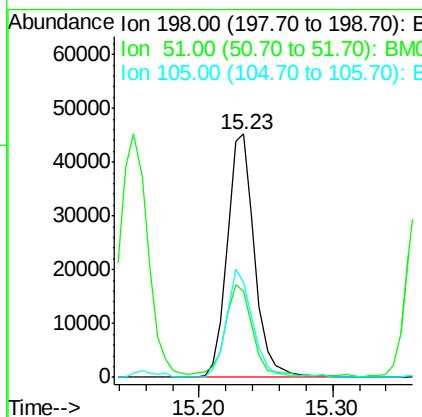
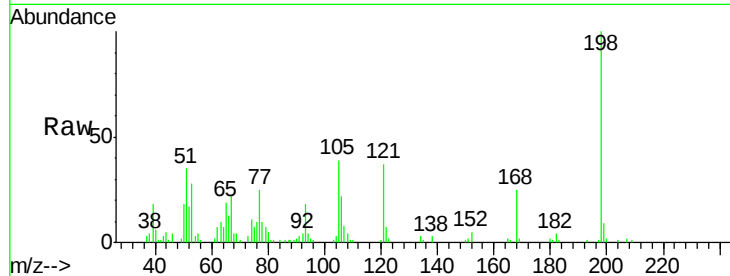
#65
4,6-Dinitro-2-methylphenol
Concen: 7.571 ng
RT: 15.23 min Scan# 2099
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
198	100		
51	35.4	15.8	55.8
105	38.9	18.5	58.5

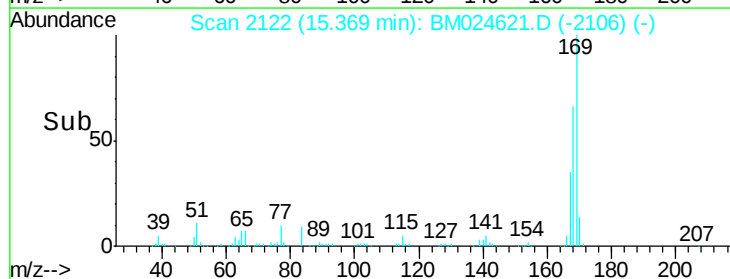
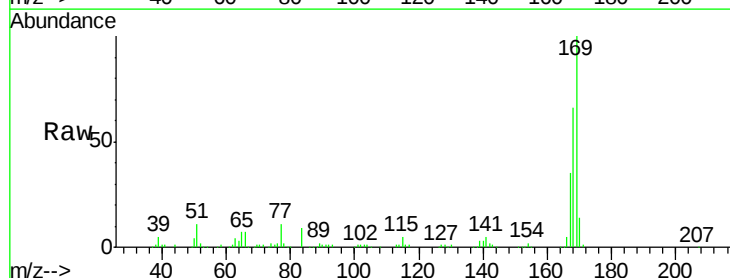
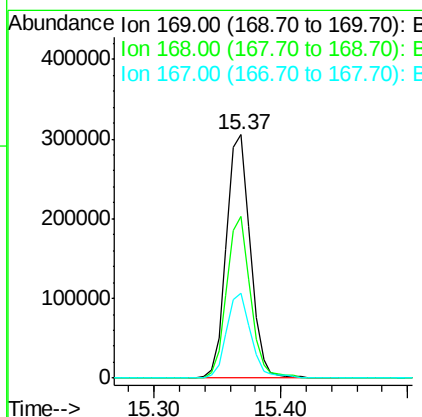
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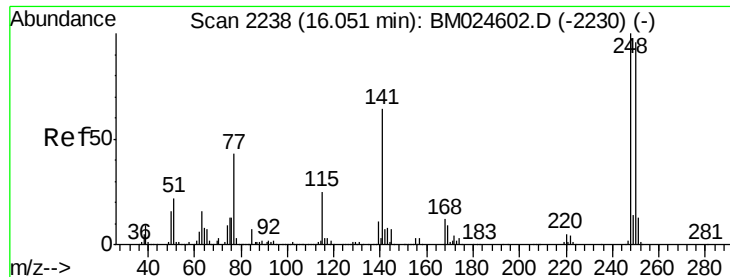
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#66
n-Nitrosodiphenylamine
Concen: 9.501 ng
RT: 15.37 min Scan# 2122
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
169	100		
168	66.4	52.8	79.2
167	35.1	28.2	42.2





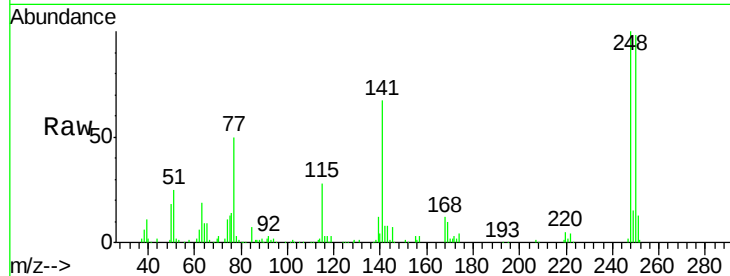
#67
4-Bromophenyl-phenylether
Concen: 9.289 ng
RT: 16.05 min Scan# 2237
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

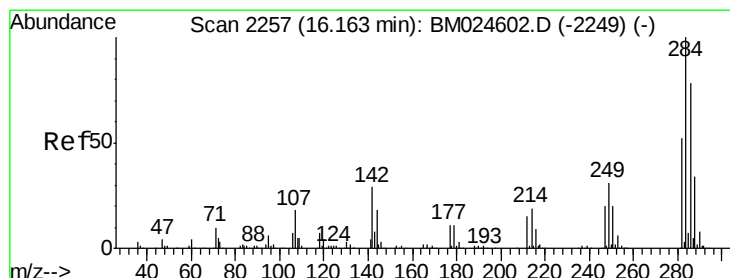
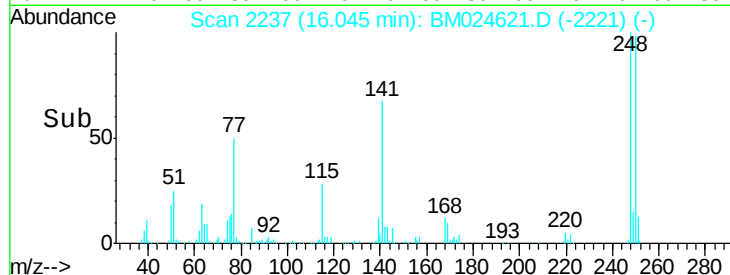
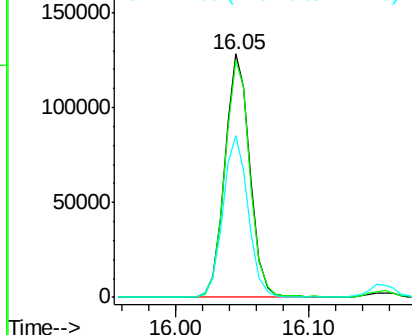
Tot Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.0	115.6
141	66.5	50.9	76.3

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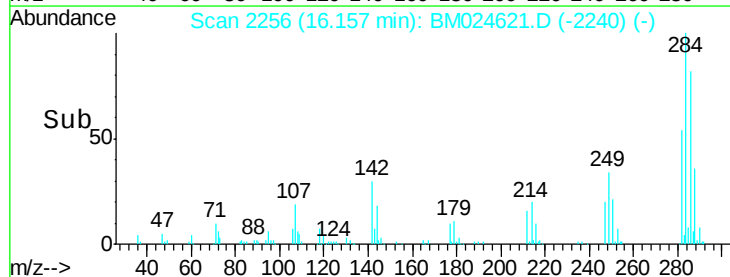
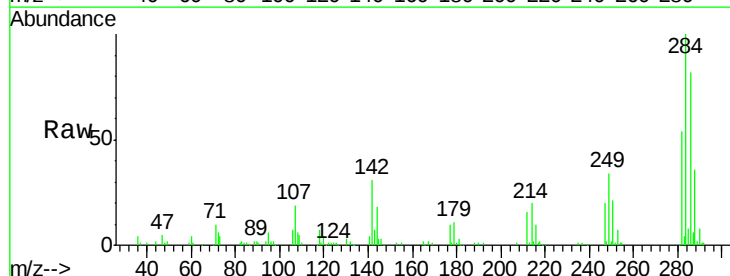
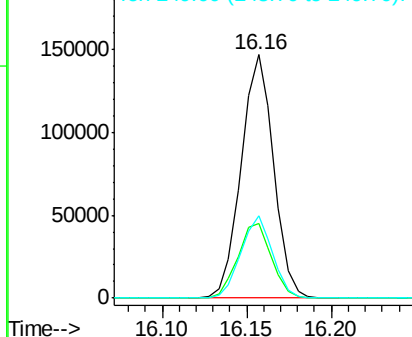
Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

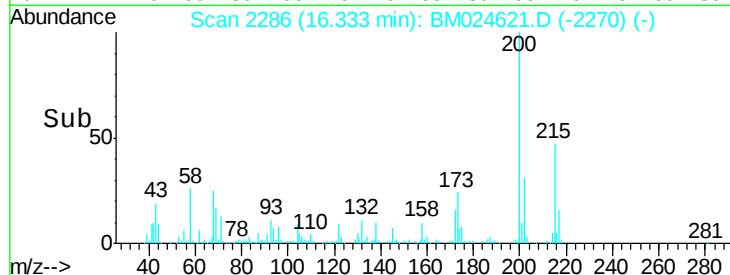
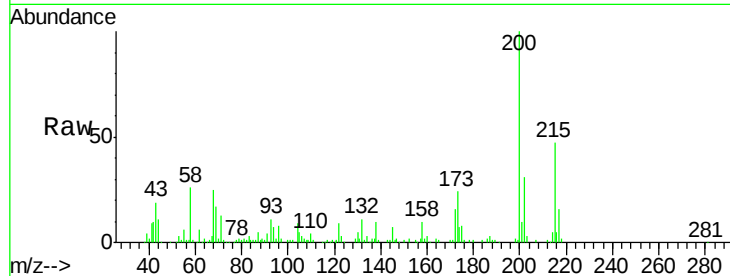
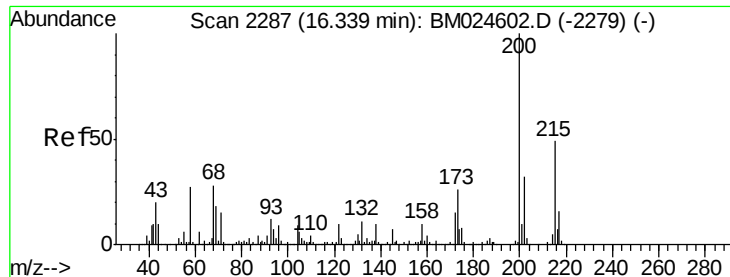


#68
Hexachlorobenzene
Concen: 9.460 ng
RT: 16.16 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
284	100		
142	30.9	23.5	35.3
249	34.0	24.6	36.8

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: 8.902 ng

RT: 16.33 min Scan# 2286

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

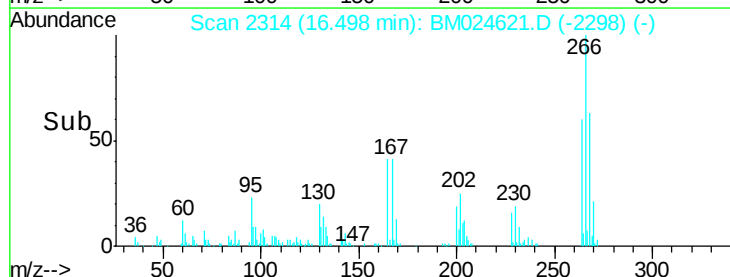
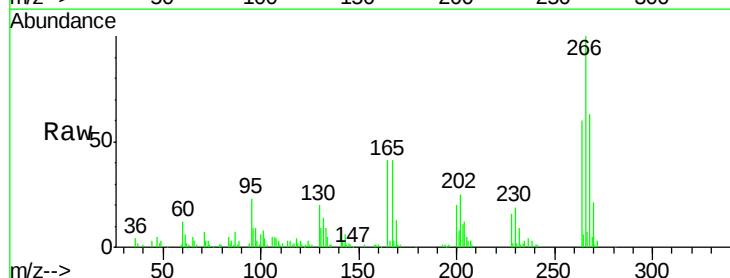
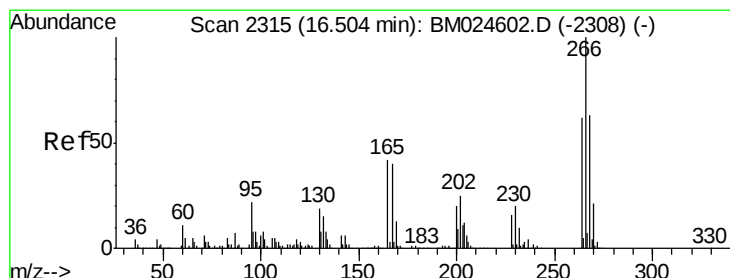
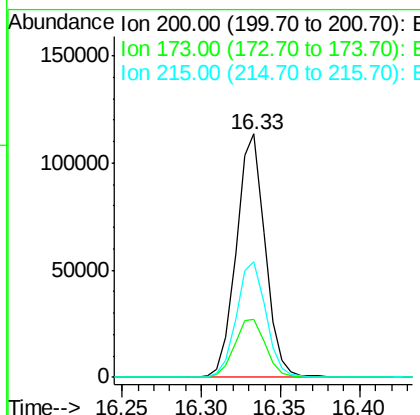
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	200	Resp:	143047
Ion Ratio	Lower	Upper	
200	100		
173	23.8	5.5	45.5
215	47.4	29.4	69.4

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#70

Pentachlorophenol

Concen: 8.354 ng

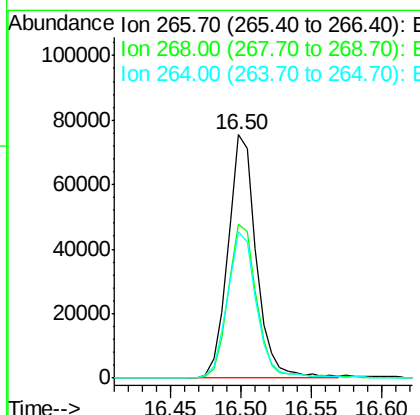
RT: 16.50 min Scan# 2314

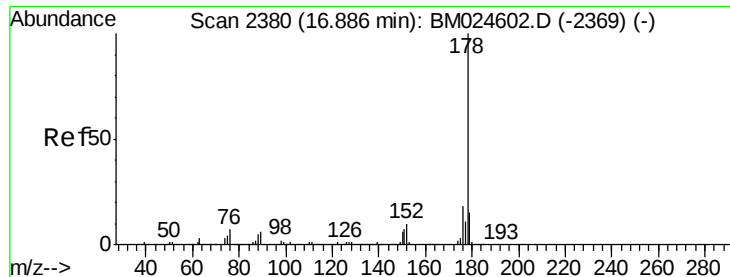
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	266	Resp:	105827
Ion Ratio	Lower	Upper	
266	100		
268	63.3	50.4	75.6
264	60.1	49.9	74.9





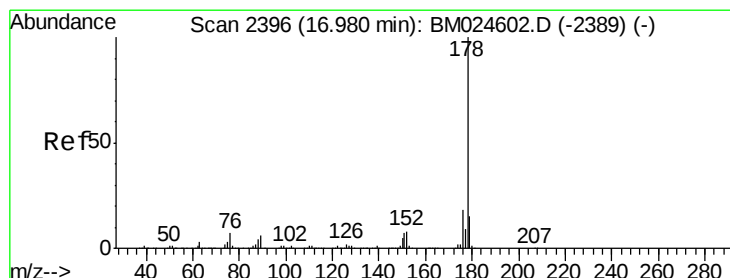
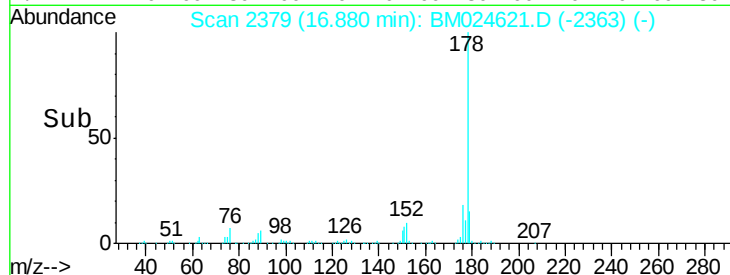
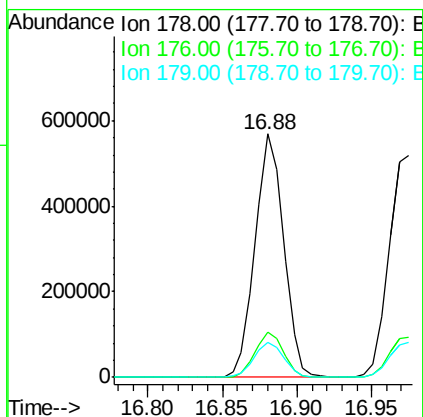
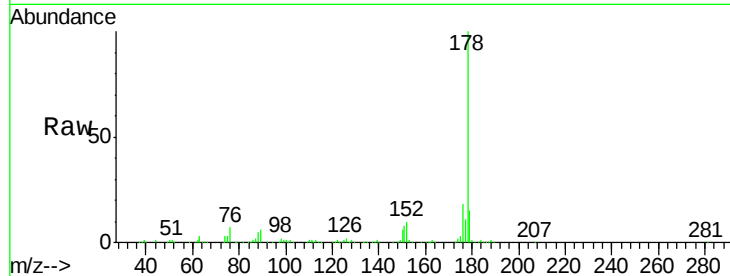
#71
Phenanthrene
Concen: 9.537 ng
RT: 16.88 min Scan# 2379
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.5	21.7
179	14.6	11.9	17.9

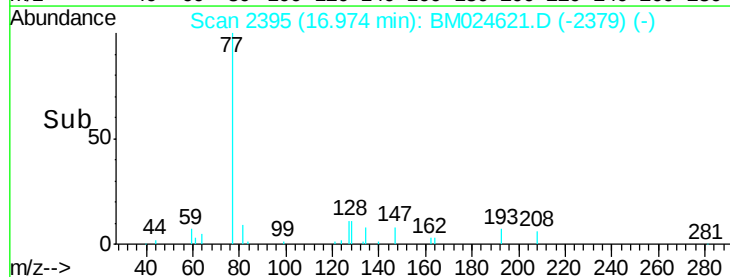
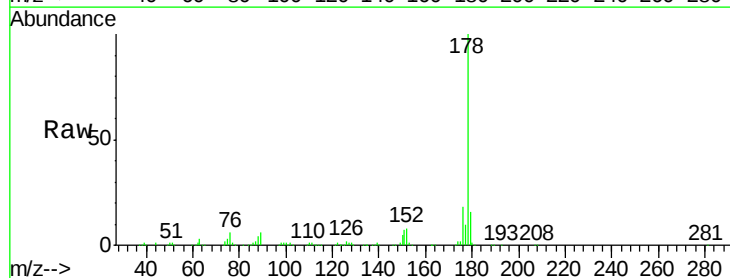
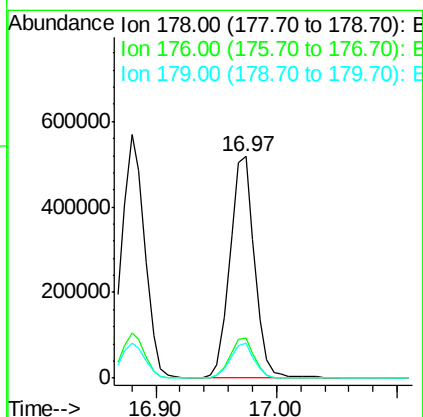
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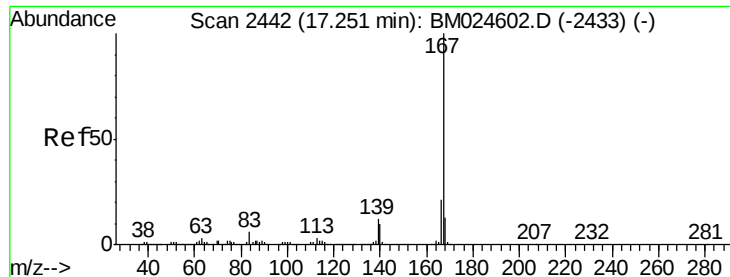
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#72
Anthracene
Concen: 9.424 ng
RT: 16.97 min Scan# 2395
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.3	21.5
179	15.6	12.1	18.1





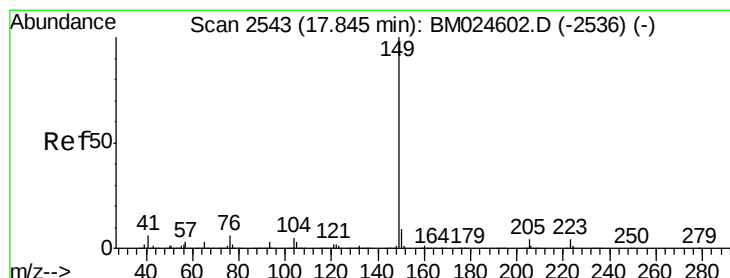
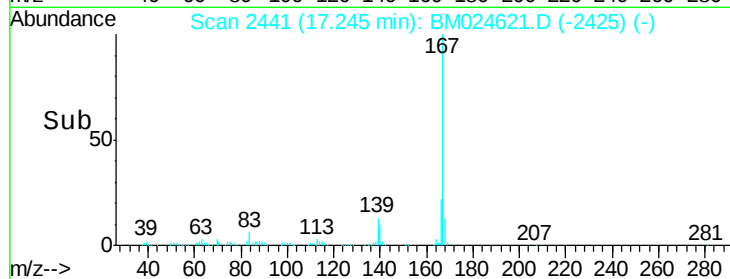
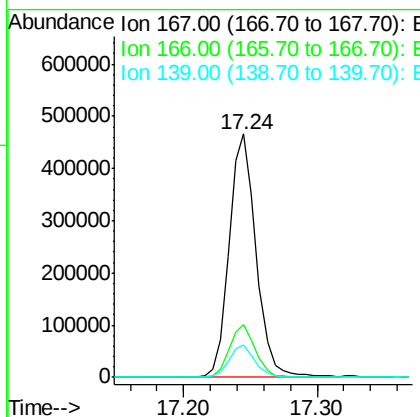
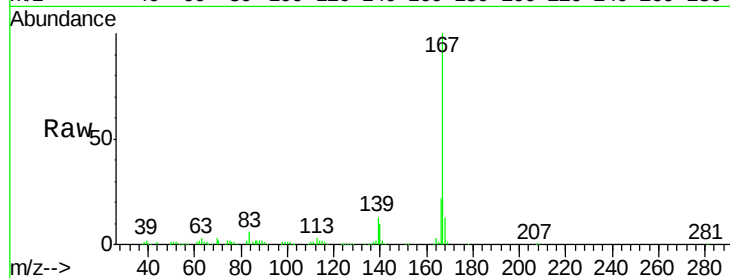
#73
 Carbazole
 Concen: 9.339 ng
 RT: 17.24 min Scan# 2441
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.1	25.7
139	13.5	9.8	14.8

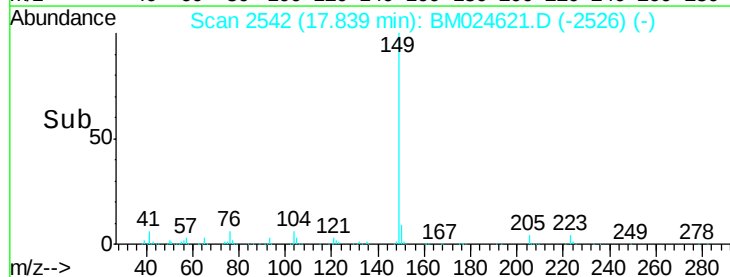
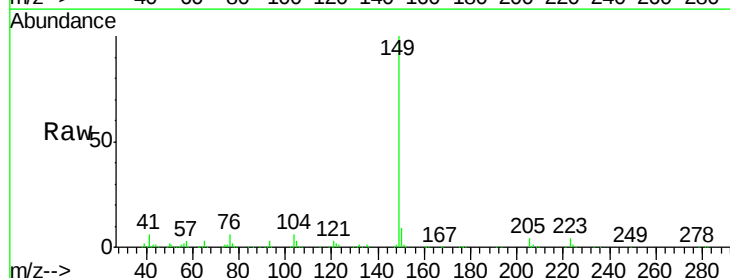
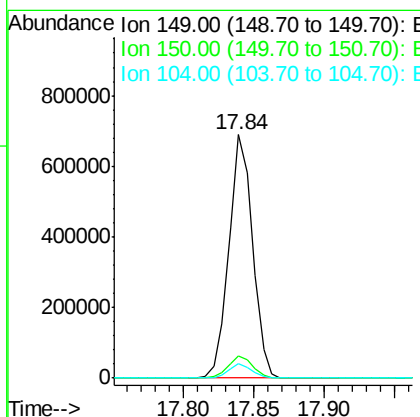
Manual Integrations
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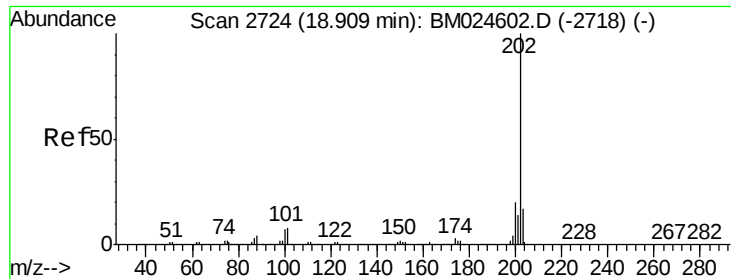
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#74
 Di-n-butylphthalate
 Concen: 8.964 ng
 RT: 17.84 min Scan# 2542
 Delta R.T. -0.01 min
 Lab File: BM024621.D
 Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.7	4.3	6.5





#75

Fluoranthene

Concen: 9.364 ng

RT: 18.91 min Scan# 2724

Delta R.T. 0.00 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

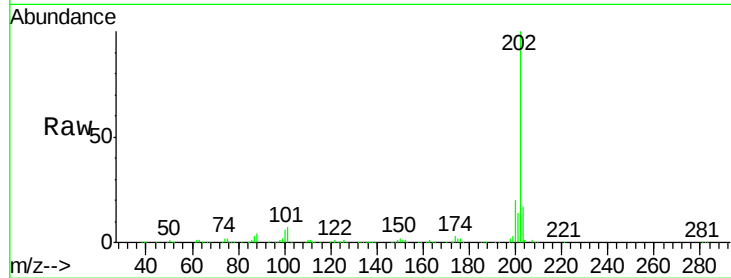
ClientSampleId :

LOQ-SOIL-02-QT4-2019

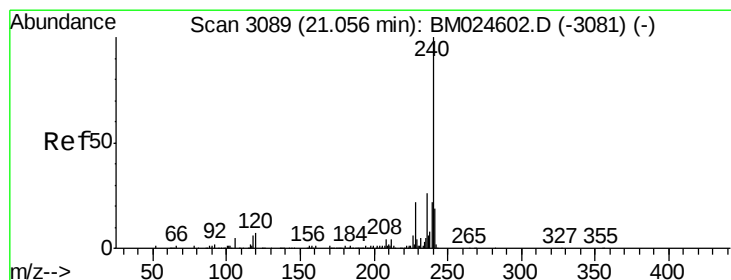
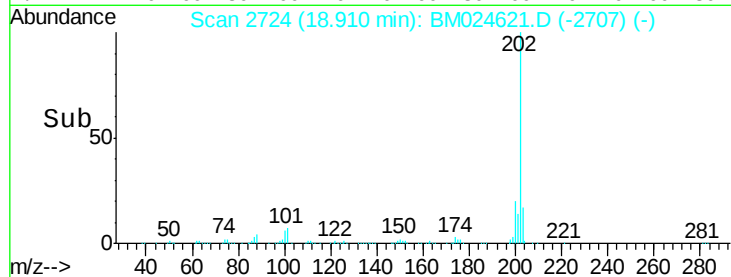
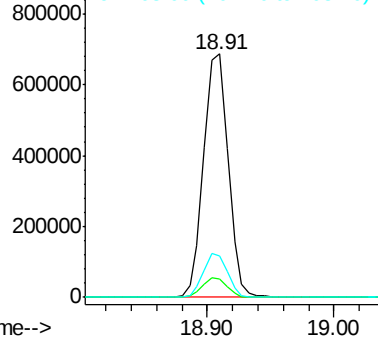
Tot Ion:	202	Resp:	922337
Ion Ratio	Lower	Upper	
202	100		
101	7.3	0.0	28.4
203	17.0	0.0	37.5

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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

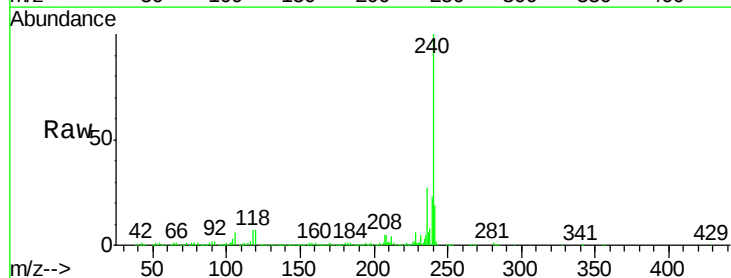
RT: 21.05 min Scan# 3088

Delta R.T. -0.01 min

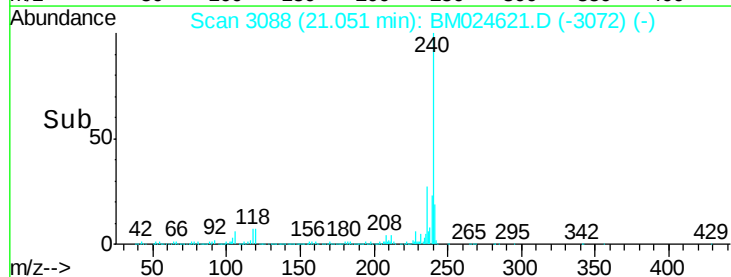
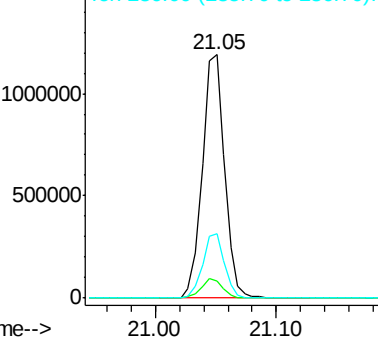
Lab File: BM024621.D

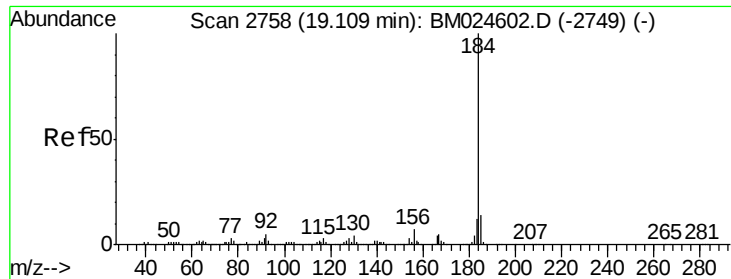
Acq: 24 Jan 2020 15:31

Tgt Ion:	240	Resp:	1536762
Ion Ratio	Lower	Upper	
240	100		
120	6.8	5.3	7.9
236	26.7	20.6	31.0



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: 8.852 ng

RT: 19.10 min Scan# 2757

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

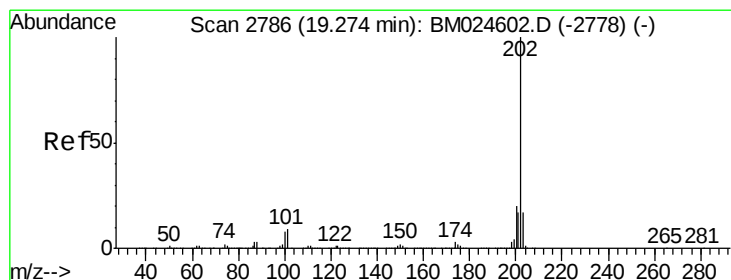
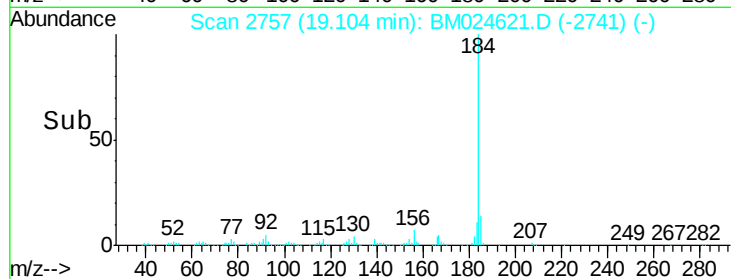
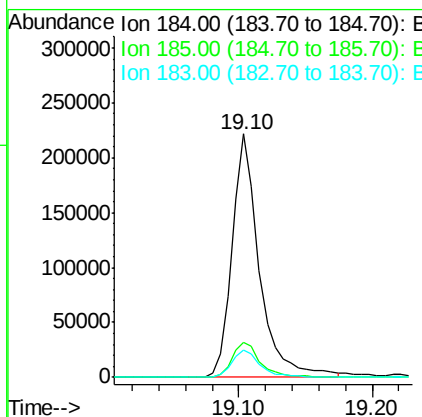
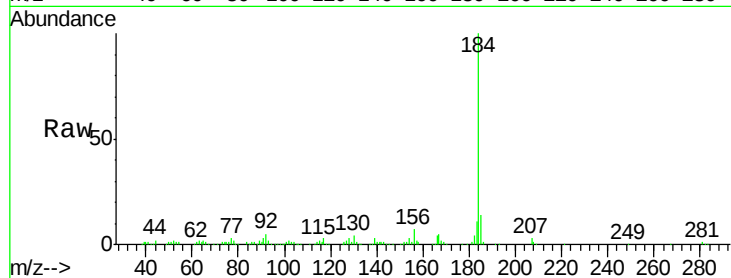
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	184	Resp:	316796
Ion Ratio	Lower	Upper	
184	100		
185	14.3	11.3	16.9
183	11.1	9.6	14.4

Manual Integrations
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#78

Pyrene

Concen: 9.463 ng

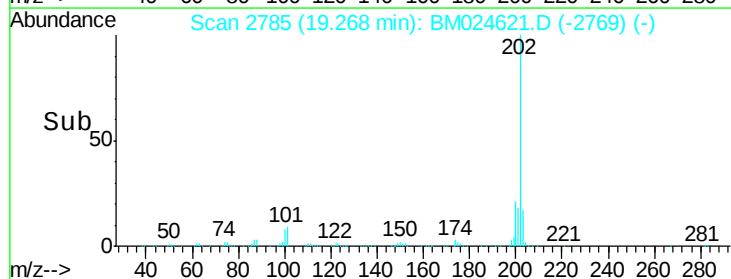
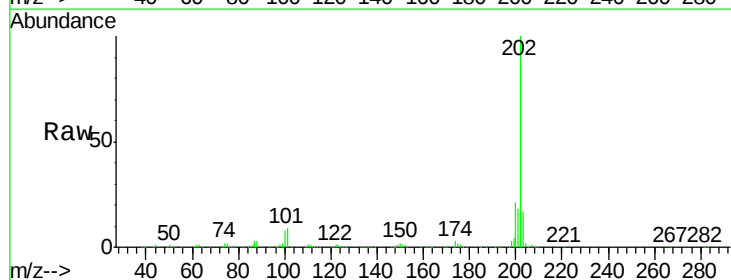
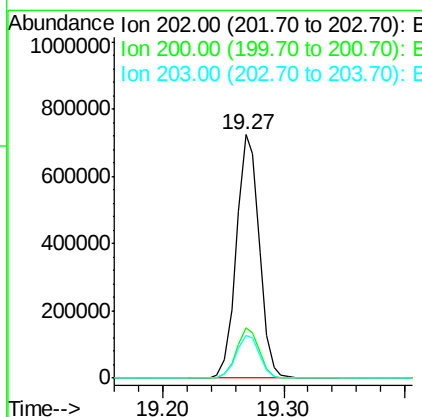
RT: 19.27 min Scan# 2785

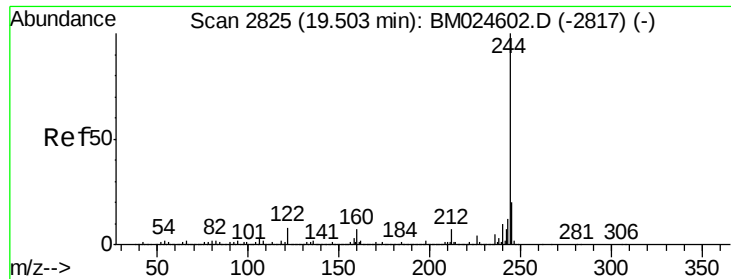
Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	202	Resp:	958730
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.2	24.2
203	17.4	14.0	21.0





#79

Terphenyl-d14

Concen: 80.892 ng

RT: 19.50 min Scan# 2824

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:244 Resp: 6658752

Ion Ratio Lower Upper

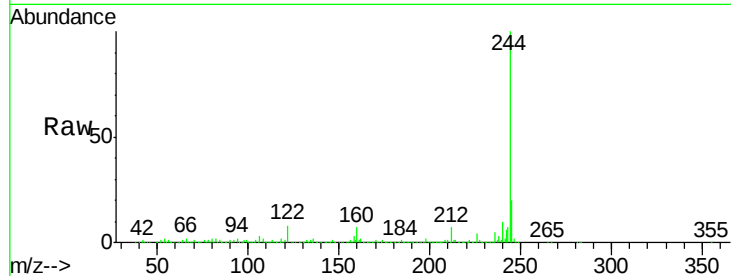
244 100

212 6.6 5.4 8.2

122 8.0 6.2 9.4

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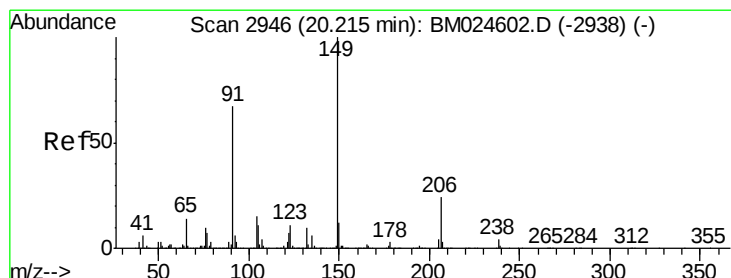
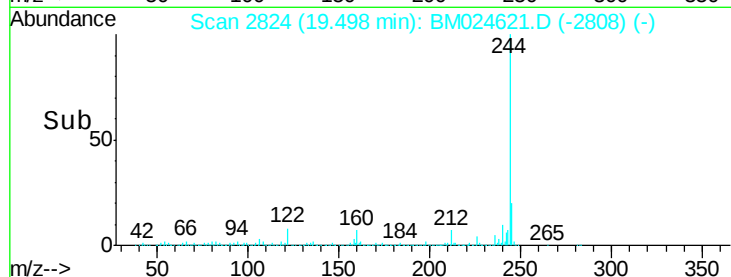
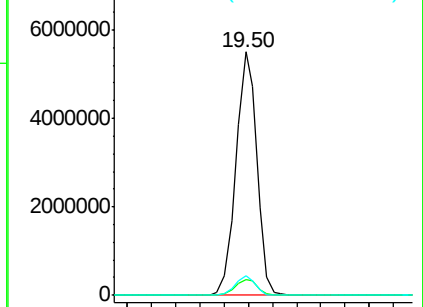
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 8.418 ng

RT: 20.21 min Scan# 2945

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

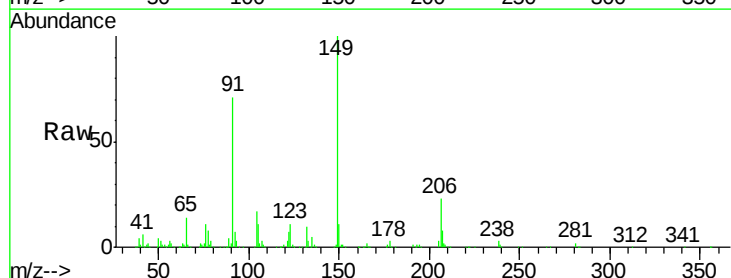
Tgt Ion:149 Resp: 357849

Ion Ratio Lower Upper

149 100

91 71.1 53.9 80.9

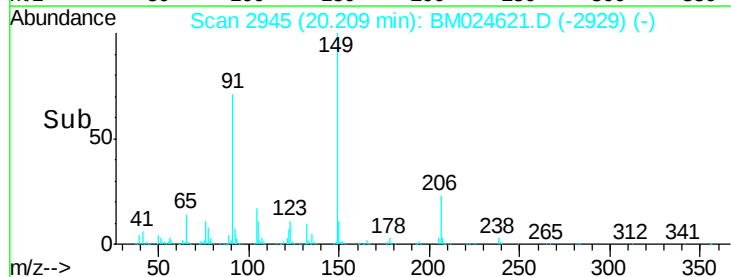
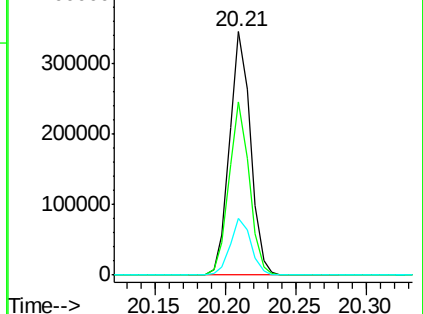
206 23.1 19.0 28.6

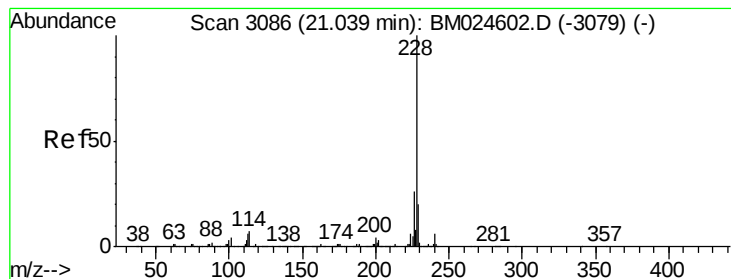


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 9.599 ng

RT: 21.03 min Scan# 3085

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:228 Resp: 1023855

Ion Ratio Lower Upper

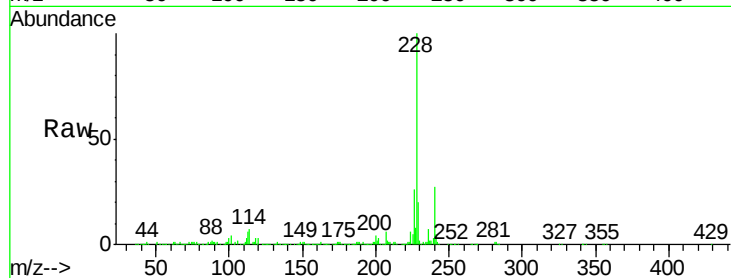
228 100

226 25.8 21.1 31.7

229 19.6 15.8 23.6

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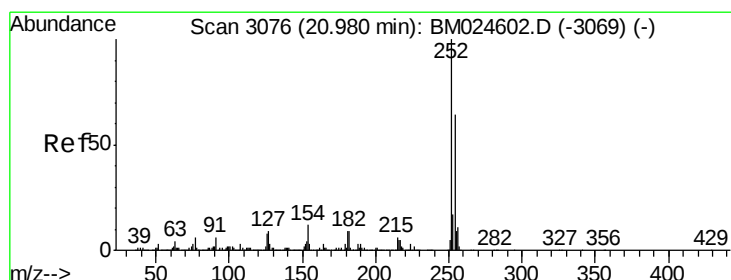
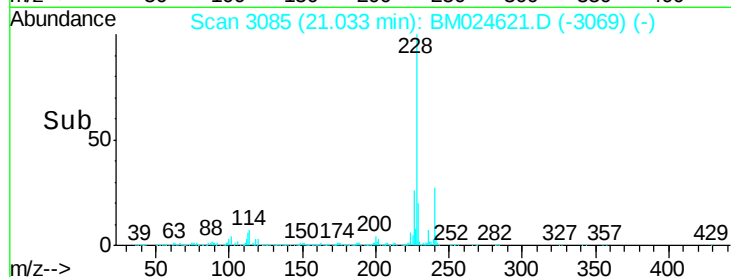
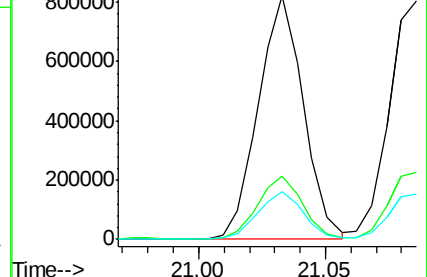
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 8.849 ng

RT: 20.97 min Scan# 3075

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

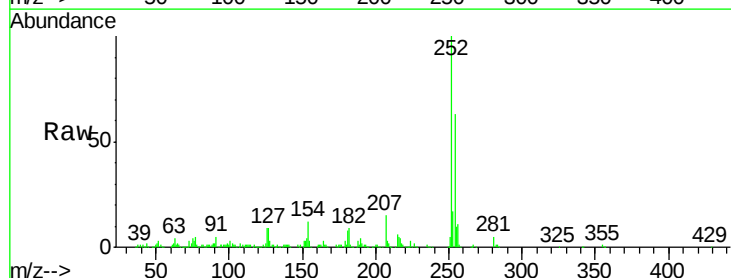
Tgt Ion:252 Resp: 339532

Ion Ratio Lower Upper

252 100

254 62.8 51.5 77.3

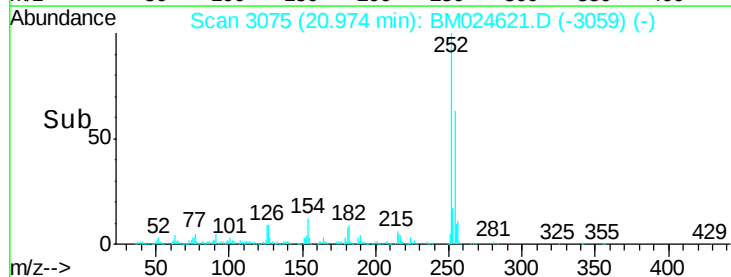
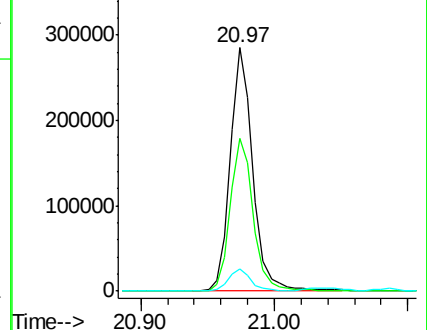
126 9.1 6.7 10.1

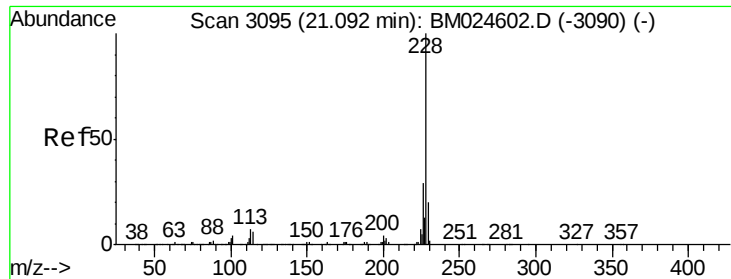


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





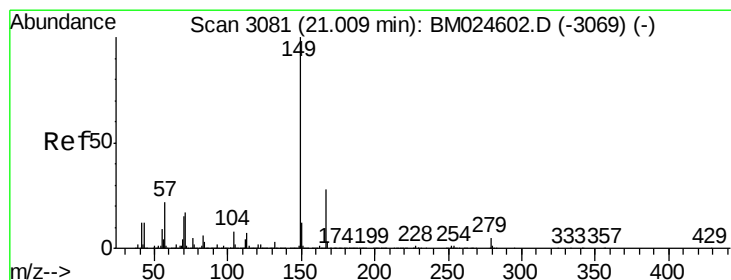
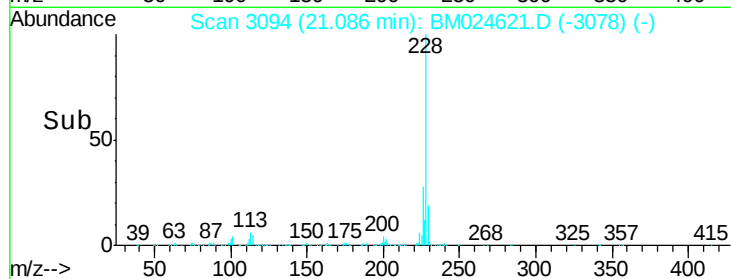
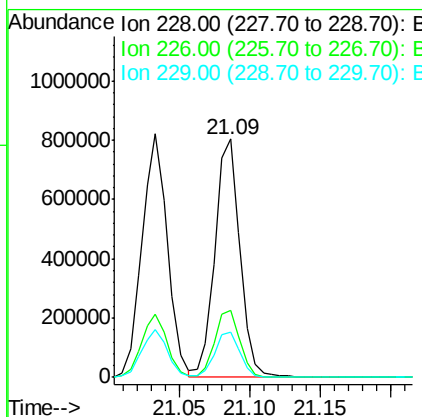
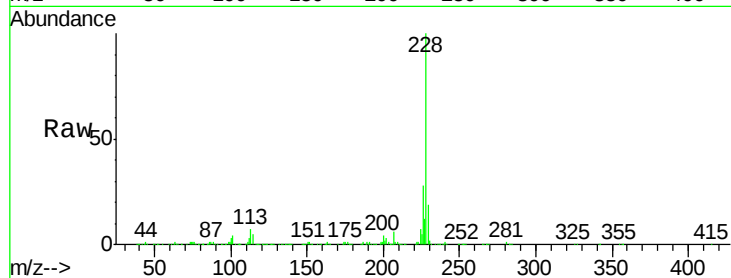
#83
Chrysene
Concen: 9.689 ng
RT: 21.09 min Scan# 3094
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion:	228	Resp:	986146
Ion Ratio	Lower	Upper	
228	100		
226	28.2	23.2	34.8
229	18.8	15.7	23.5

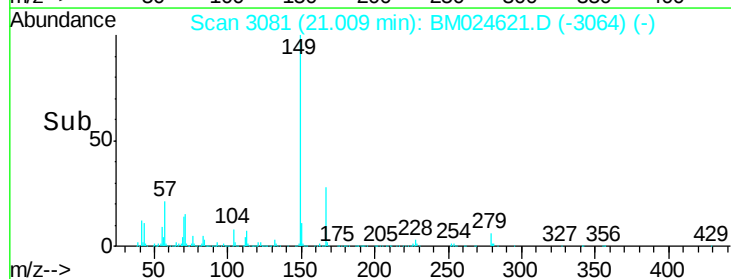
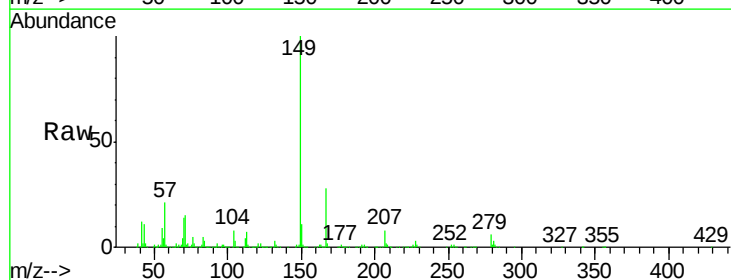
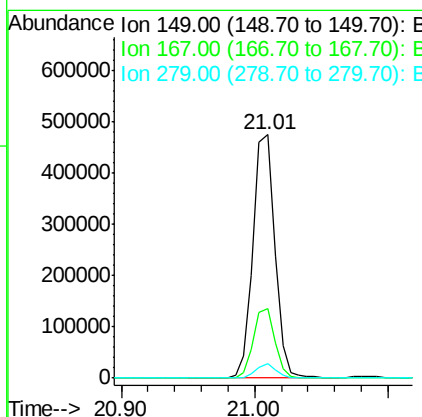
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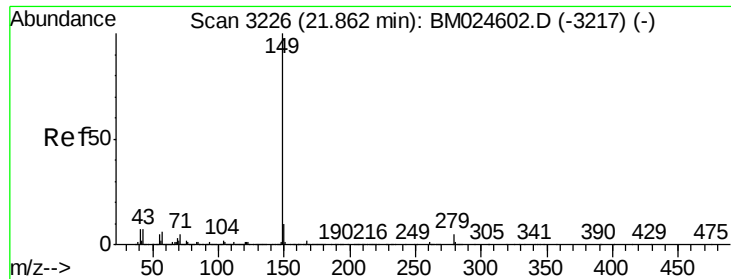
mohammad
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#84
Bis(2-ethylhexyl)phthalate
Concen: 8.520 ng
RT: 21.01 min Scan# 3081
Delta R.T. 0.00 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion:	149	Resp:	534396
Ion Ratio	Lower	Upper	
149	100		
167	28.4	22.5	33.7
279	5.9	4.0	6.0





#85

Di-n-octyl phthalate

Concen: 8.395 ng

RT: 21.86 min Scan# 3225

Delta R.T. -0.01 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

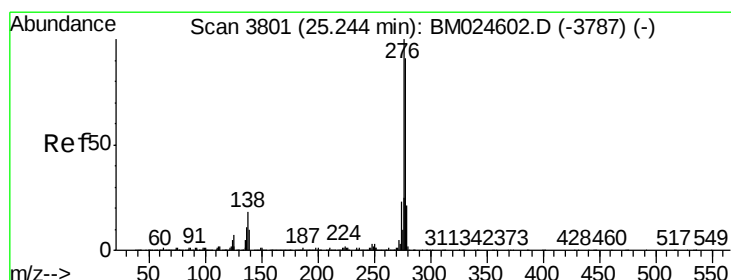
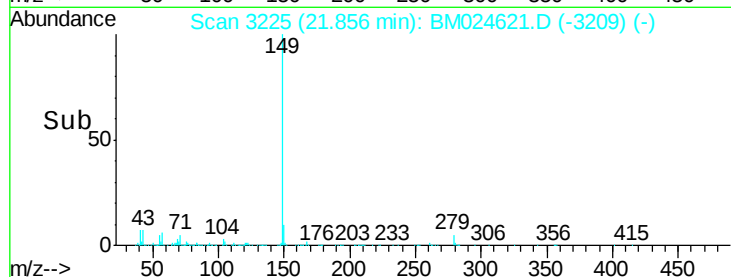
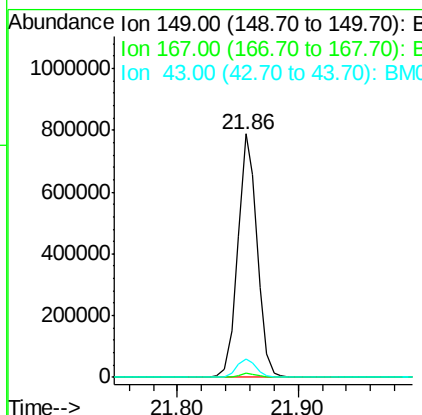
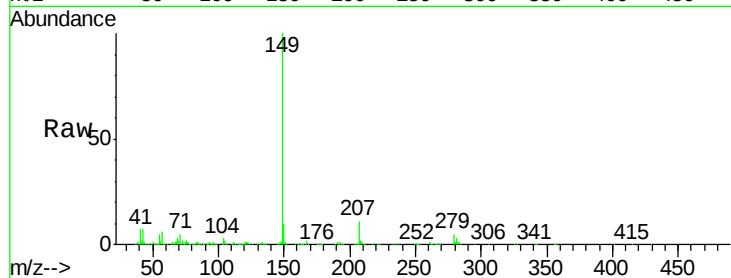
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	149	Resp:	870006
Ion Ratio	Lower	Upper	
149	100		
167	1.6	1.3	1.9
43	7.5	5.8	8.6

Manual Integrations
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#86

Indeno(1,2,3-cd)pyrene

Concen: 9.380 ng

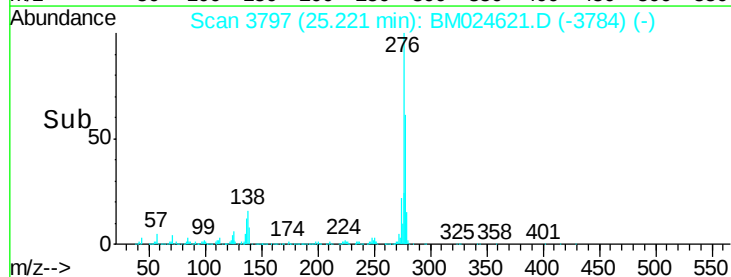
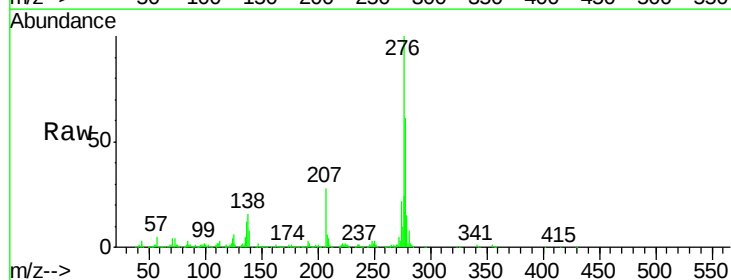
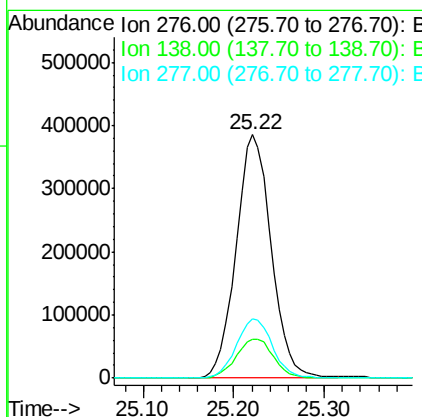
RT: 25.22 min Scan# 3797

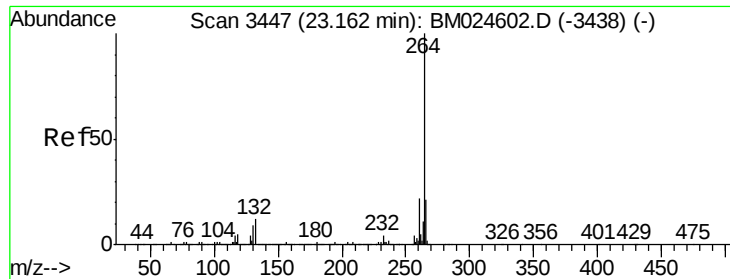
Delta R.T. -0.02 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	276	Resp:	1040544
Ion Ratio	Lower	Upper	
276	100		
138	17.2	13.4	20.0
277	25.0	19.6	29.4





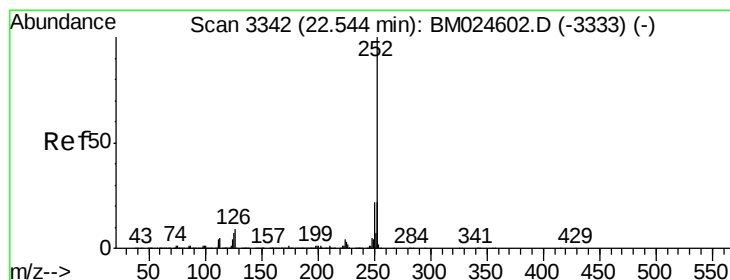
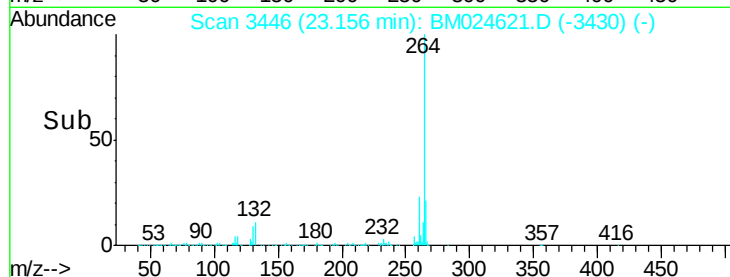
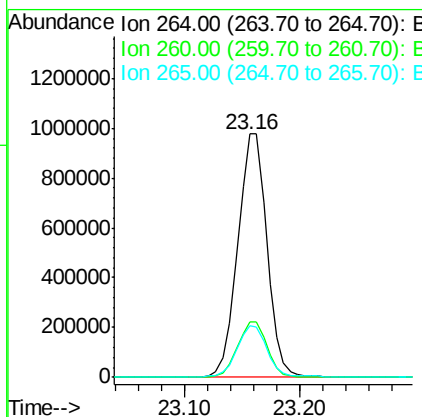
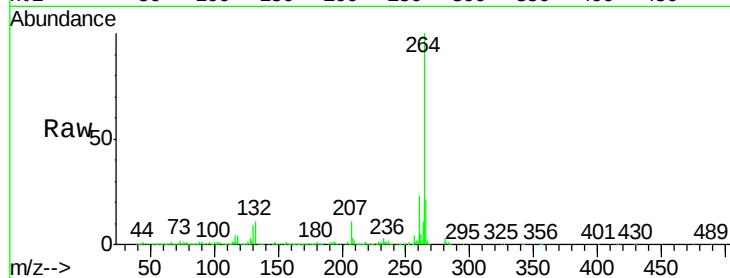
#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.16 min Scan# 3446
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.8	17.9	26.9
265	21.4	17.3	25.9

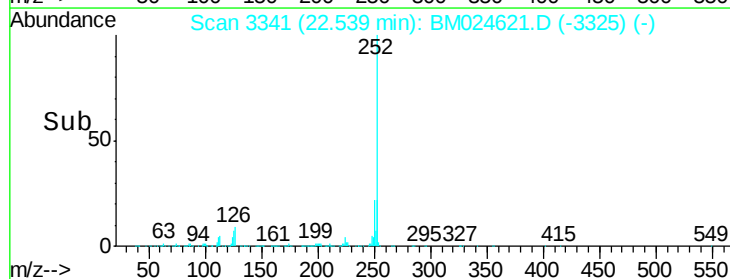
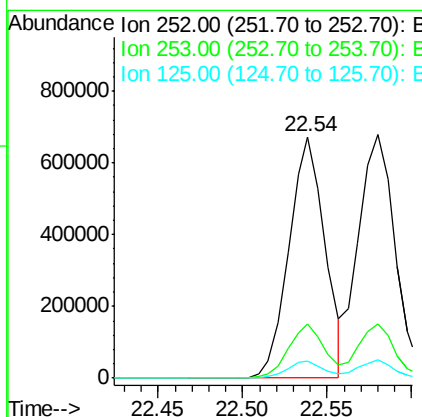
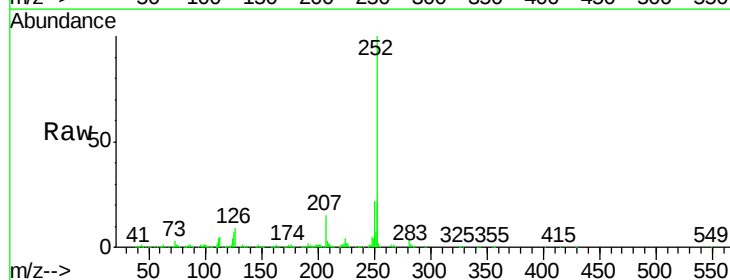
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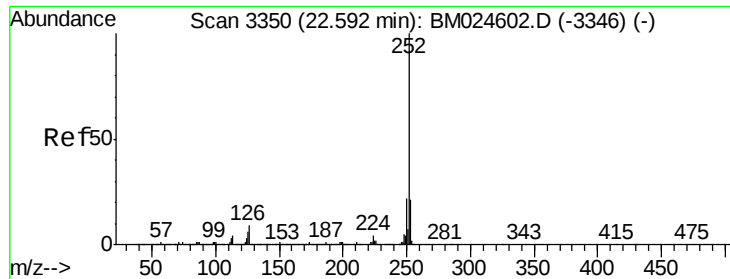
mohammad
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#88
Benzo(b)fluoranthene
Concen: 8.912 ng
RT: 22.54 min Scan# 3341
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	7.0	5.7	8.5





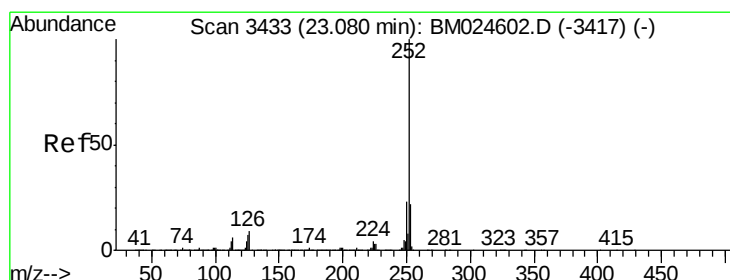
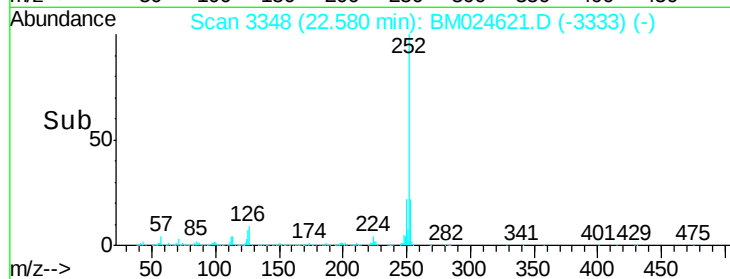
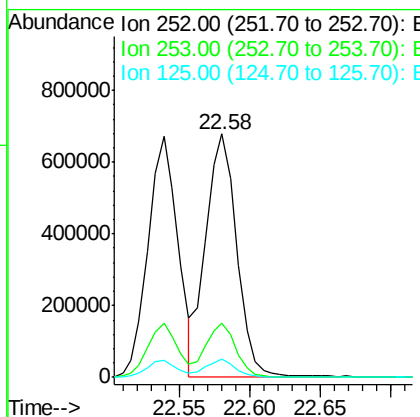
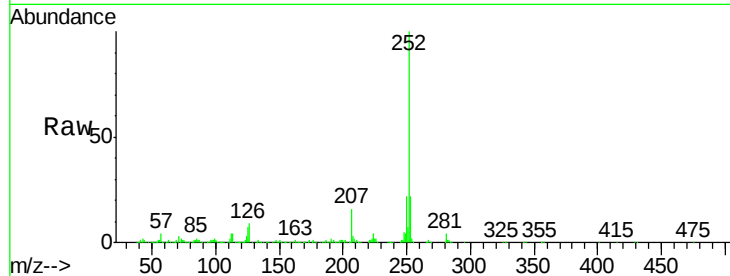
#89
Benzo(k)fluoranthene
Concen: 9.440 ng
RT: 22.58 min Scan# 3348
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Instrument :
BNA_M
ClientSampleId :
LOQ-SOIL-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	7.3	5.2	7.8

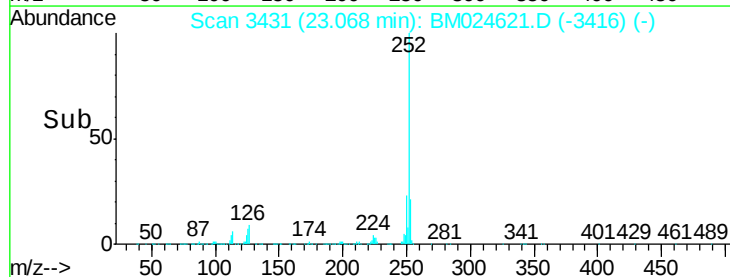
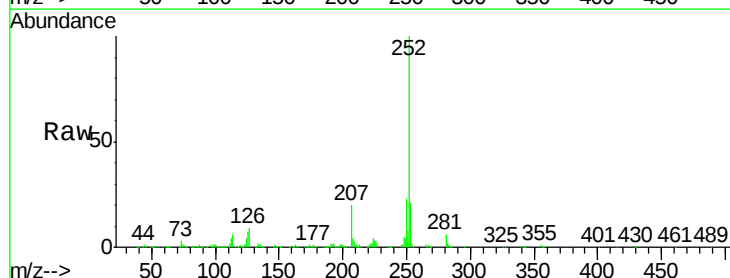
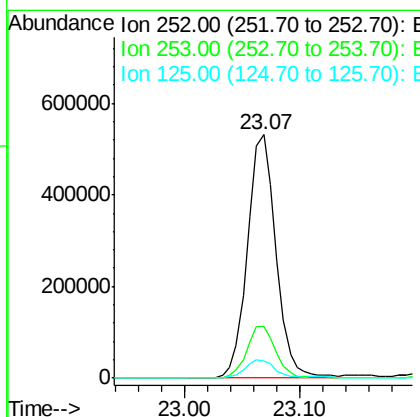
Manual Integrations
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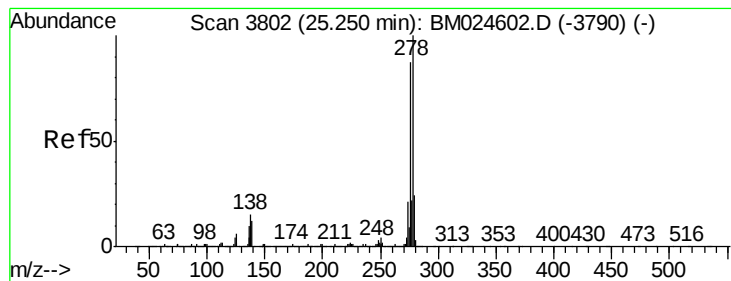
mohammad
1/28/2020 8:13:13 AM



#90
Benzo(a)pyrene
Concen: 9.037 ng
RT: 23.07 min Scan# 3431
Delta R.T. -0.01 min
Lab File: BM024621.D
Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.3	25.9
125	6.9	5.8	8.8





#91

Dibenzo(a,h)anthracene

Concen: 9.063 ng

RT: 25.23 min Scan# 3799

Delta R.T. -0.02 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Instrument :

BNA_M

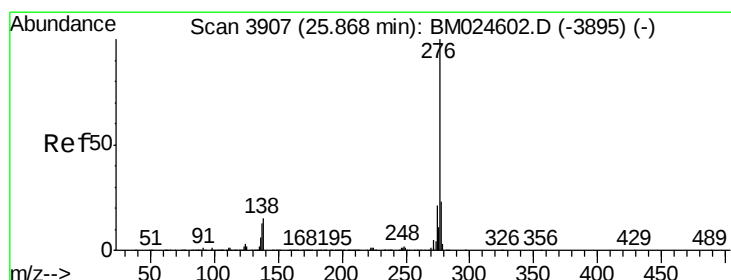
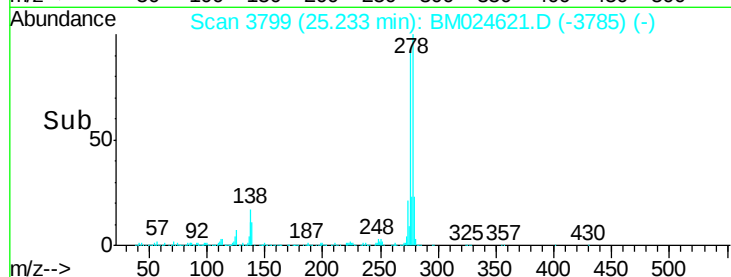
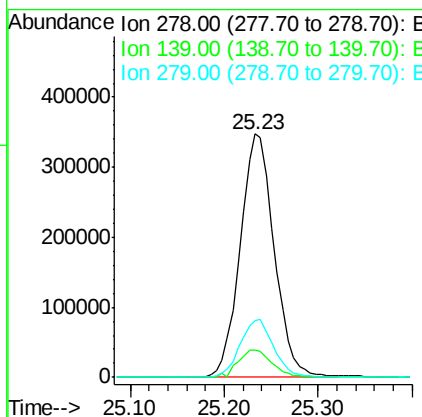
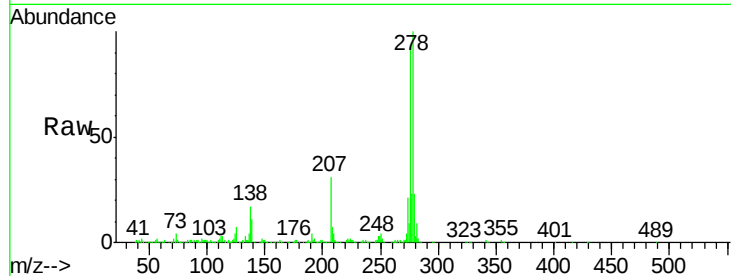
ClientSampleId :

LOQ-SOIL-02-QT4-2019

Tot Ion:	278	Resp:	870908
Ion Ratio	Lower	Upper	
278	100		
139	11.3	9.3	13.9
279	23.4	18.9	28.3

Manual Integrations
APPROVED

mohammad
1/28/2020 8:13:13 AM



#92

Benzo(g,h,i)perylene

Concen: 9.128 ng

RT: 25.84 min Scan# 3903

Delta R.T. -0.02 min

Lab File: BM024621.D

Acq: 24 Jan 2020 15:31

Tgt Ion:	276	Resp:	796463
Ion Ratio	Lower	Upper	
276	100		
277	23.6	18.6	28.0
138	15.2	11.9	17.9

