

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092620\
 Data File : VW016655.D
 Acq On : 25 Sep 2020 15:04
 Operator : SY/VA
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-07

Quant Time: Sep 26 00:15:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM091820SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Sep 26 00:13:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	602796	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	552066	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.56	152	279738	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	144385	21.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.76%
7) Chloroethane-d5	2.90	69	121813	22.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.16%
11) 1,1-Dichloroethene-d2	4.03	63	237790	16.74	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	66.96%
21) 2-Butanone-d5	7.09	46	91727	60.24	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	120.48%
24) Chloroform-d	7.65	84	342349	24.10	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	8.31	65	191677	26.43	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.72%
32) Benzene-d6	8.28	84	660308	23.42	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.68%
36) 1,2-Dichloropropane-d6	9.28	67	187559	24.19	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.76%
41) Toluene-d8	10.33	98	638498	23.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.84%
43) trans-1,3-Dichloropropene-	10.58	79	89543	23.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.24%
47) 2-Hexanone-d5	10.93	63	74043	60.67	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	121.34%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	170270	28.21	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	112.84%
66) 1,2-Dichlorobenzene-d4	13.85	152	250543	24.73	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.92%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.03	85	7571	1.042 ug/L	99
3) Chloromethane	2.22	50	7194	1.249 ug/L	100
5) Vinyl chloride	2.38	62	10199	1.235 ug/L #	69
6) Bromomethane	2.79	94	7309	1.152 ug/L	97
8) Chloroethane	2.94	64	5913	1.205 ug/L	100
9) Trichlorofluoromethane	3.28	101	7870	1.005 ug/L	100
12) 1,1-Dichloroethene	4.05	96	6735	0.866 ug/L #	1
13) Acetone	4.13	43	2029	1.975 ug/L	85
14) Carbon disulfide	4.40	76	24137	1.045 ug/L	99
15) Methyl Acetate	4.70	43	3161	1.254 ug/L #	63
16) Methylene chloride	4.93	84	26753	3.028 ug/L	96
17) trans-1,2-Dichloroethene	5.44	96	9455	1.172 ug/L	94
18) Methyl tert-butyl Ether	5.44	73	12620	1.274 ug/L #	91
19) 1,1-Dichloroethane	6.23	63	15205	1.190 ug/L	93
20) cis-1,2-Dichloroethene	7.18	96	10025	1.196 ug/L	92
23) Bromochloromethane	7.52	128	4771	1.210 ug/L	93
25) Chloroform	7.68	83	16918	1.210 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

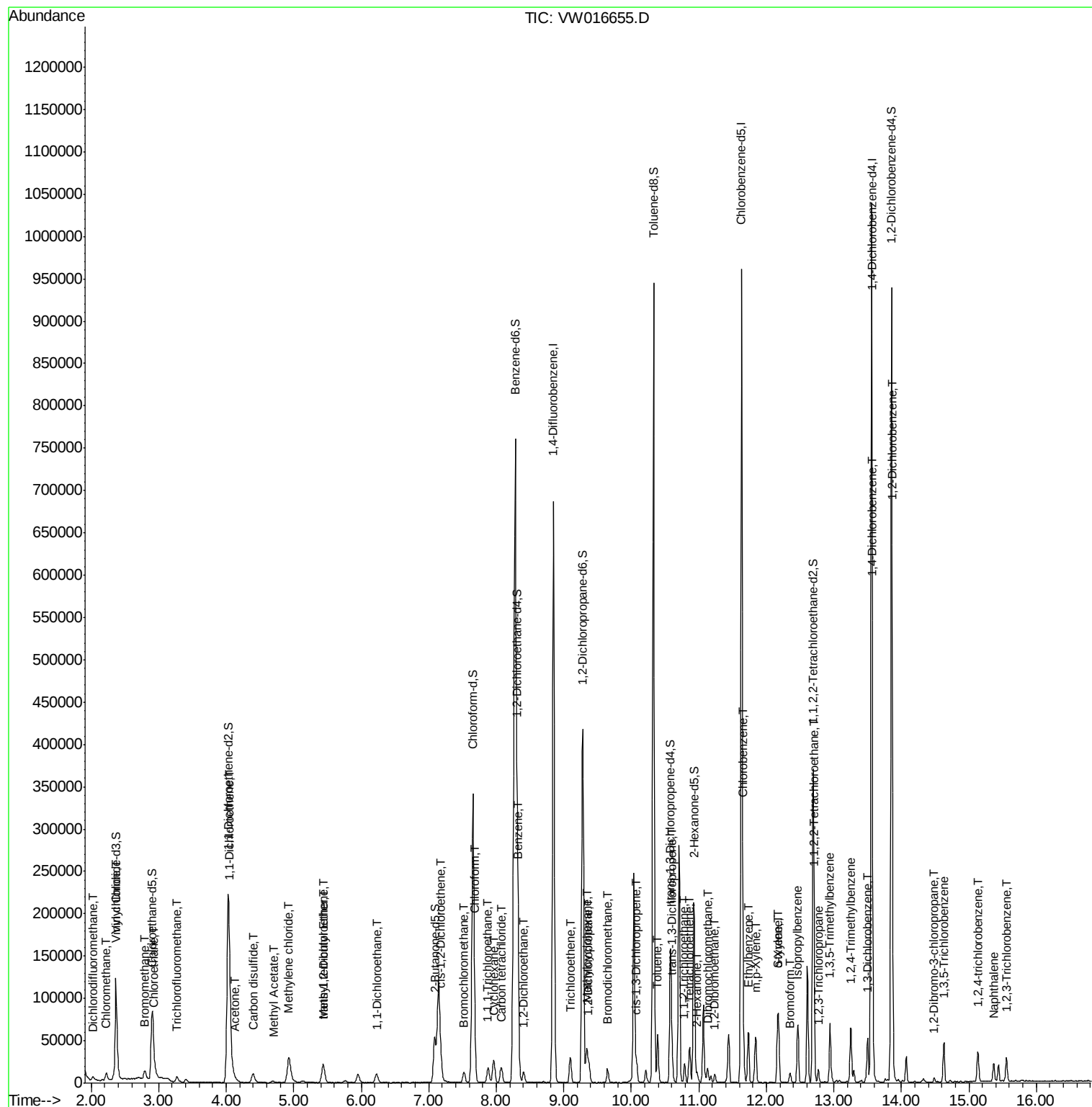
27) 1,2-Dichloroethane	8.41	62	11349	1.308	ug/L #	89
29) Cyclohexane	7.96	56	13613	1.104	ug/L	98
30) 1,1,1-Trichloroethane	7.88	97	14936	1.135	ug/L	98
31) Carbon tetrachloride	8.07	117	14103	1.101	ug/L	100
33) Benzene	8.33	78	35190	1.151	ug/L	100
34) Trichloroethene	9.10	95	10313	1.176	ug/L	91
35) Methylcyclohexane	9.34	83	17337	1.183	ug/L	97
37) 1,2-Dichloropropane	9.37	63	8217	1.178	ug/L #	94
38) Bromodichloromethane	9.65	83	11459	1.108	ug/L	100
39) cis-1,3-Dichloropropene	10.08	75	12878	1.082	ug/L	99
42) Toluene	10.39	91	40477	1.175	ug/L	98
44) trans-1,3-Dichloropropene	10.60	75	16034	1.571	ug/L	96
45) 1,1,2-Trichloroethane	10.79	97	6876	1.214	ug/L	99
46) Tetrachloroethene	10.87	164	9349	1.181	ug/L	93
48) 2-Hexanone	10.97	43	6663	2.742	ug/L	95
49) Dibromochloromethane	11.13	129	8592	1.156	ug/L	100
50) 1,2-Dibromoethane	11.24	107	6916	1.233	ug/L #	97
51) Chlorobenzene	11.66	112	26339	1.153	ug/L	97
52) Ethylbenzene	11.73	91	43773	1.128	ug/L	98
53) m,p-Xylene	11.84	106	17339	1.147	ug/L	86
54) o-Xylene	12.17	106	16206	1.133	ug/L	99
55) Styrene	12.18	104	25165	1.057	ug/L	99
57) 1,1,2,2-Tetrachloroethane	12.71	83	8439	1.384	ug/L #	95
59) Bromoform	12.35	173	4900	1.085	ug/L #	97
60) Isopropylbenzene	12.47	105	44347	1.086	ug/L	98
61) 1,2,3-Trichloropropane	12.77	75	6083	1.320	ug/L	96
62) 1,3,5-Trimethylbenzene	12.94	105	34801	1.035	ug/L	97
63) 1,2,4-Trimethylbenzene	13.25	105	36629	1.097	ug/L	99
64) 1,3-Dichlorobenzene	13.50	146	20869	1.113	ug/L	90
65) 1,4-Dichlorobenzene	13.58	146	21729	1.182	ug/L	99
67) 1,2-Dichlorobenzene	13.87	146	19777	1.193	ug/L	97
68) 1,2-Dibromo-3-chloropropan	14.49	75	1323	1.221	ug/L	86
69) 1,3,5-Trichlorobenzene	14.63	180	15133	1.094	ug/L	98
70) 1,2,4-trichlorobenzene	15.13	180	11863	1.062	ug/L	99
71) Naphthalene	15.37	128	19426	1.036	ug/L	98
72) 1,2,3-Trichlorobenzene	15.56	180	10479	1.117	ug/L	99

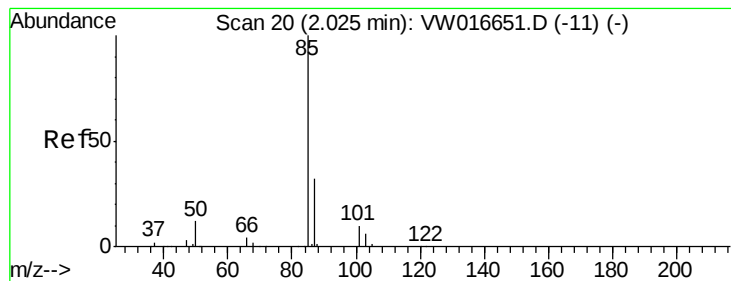
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#2

Dichlorodifluoromethane

Concen: 1.042 ug/L

RT: 2.03 min Scan# 20

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

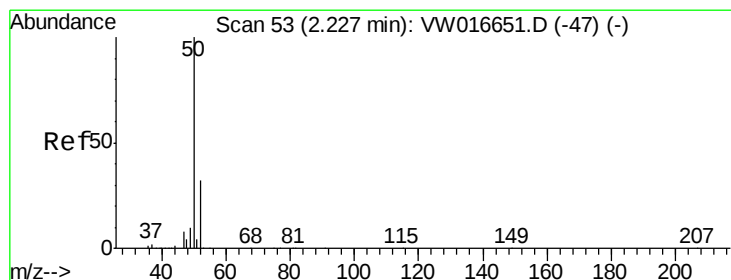
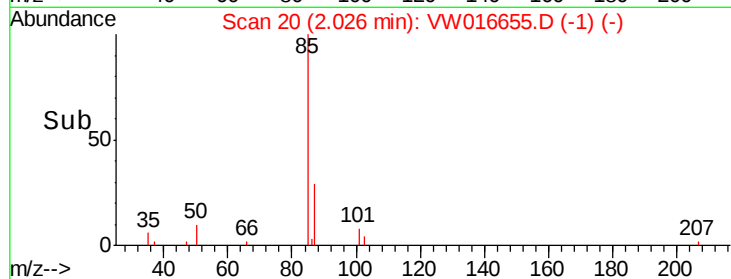
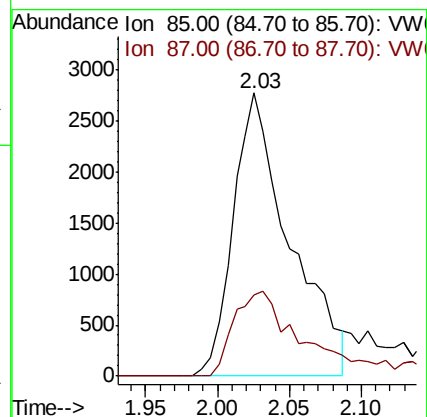
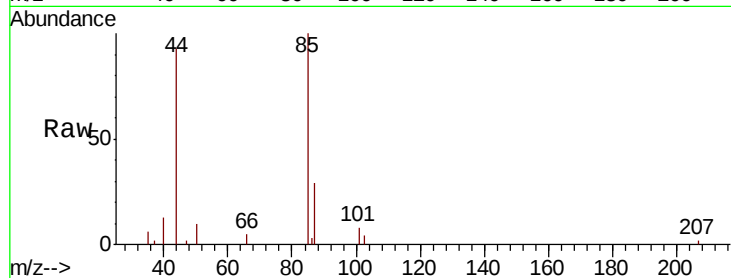
MDL-SOIL-07

Tot Ion: 85 Resp: 7571

Ion Ratio Lower Upper

85 100

87 26.4 21.4 32.0



#3

Chloromethane

Concen: 1.249 ug/L

RT: 2.22 min Scan# 52

Delta R.T. -0.01 min

Lab File: VW016655.D

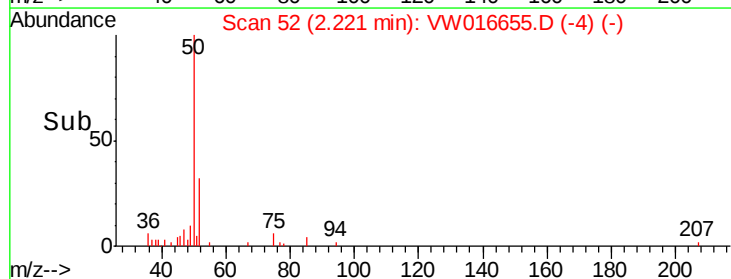
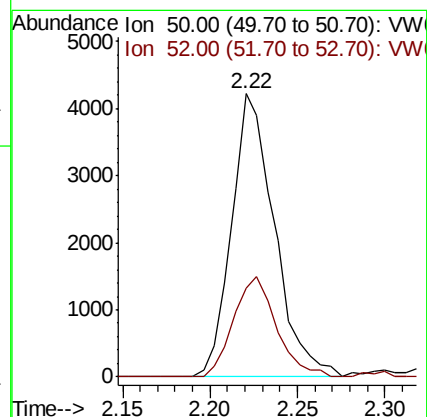
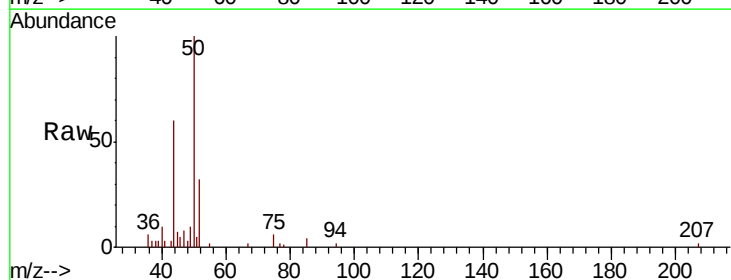
Acq: 25 Sep 2020 15:04

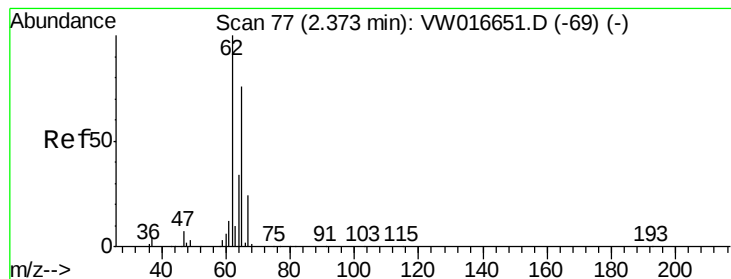
Tgt Ion: 50 Resp: 7194

Ion Ratio Lower Upper

50 100

52 31.5 22.1 41.1





#5

Vinyl chloride

Concen: 1.235 ug/L

RT: 2.38 min Scan# 78

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

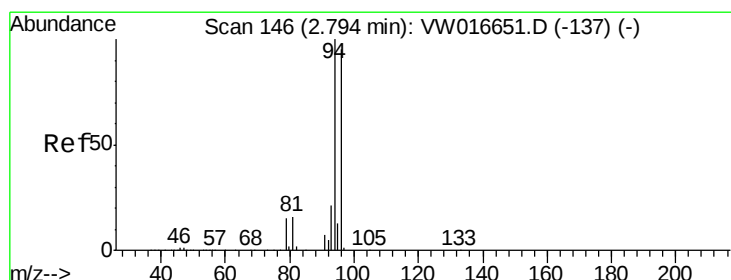
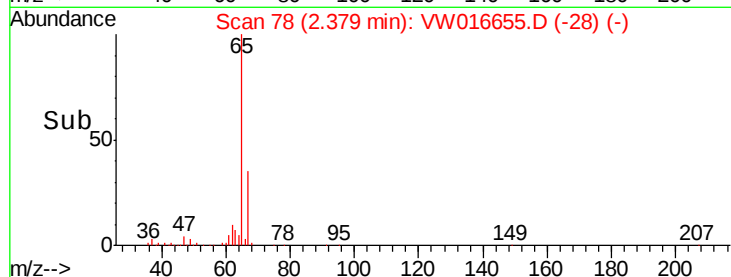
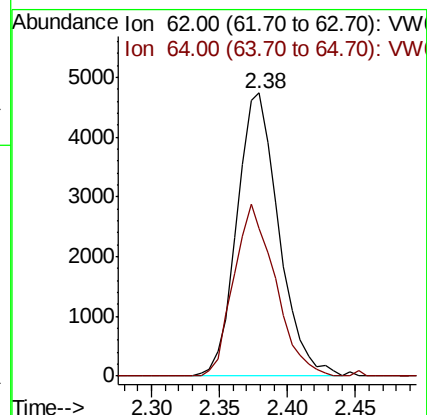
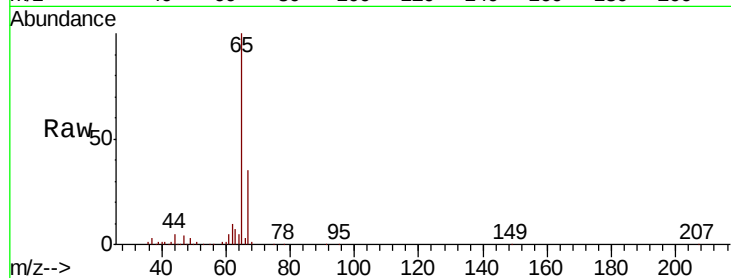
MDL-SOIL-07

Tot Ion: 62 Resp: 10199

Ion Ratio Lower Upper

62 100

64 52.1 24.1 44.7#



#6

Bromomethane

Concen: 1.152 ug/L

RT: 2.79 min Scan# 146

Delta R.T. 0.00 min

Lab File: VW016655.D

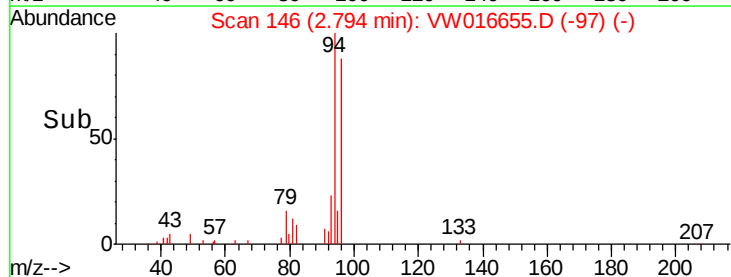
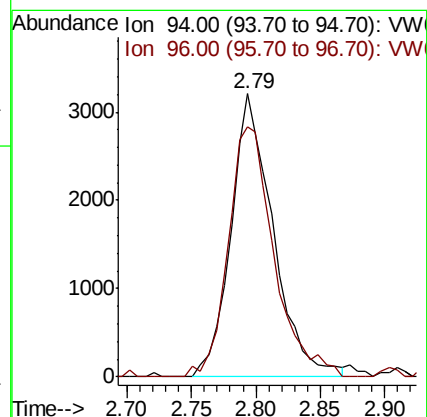
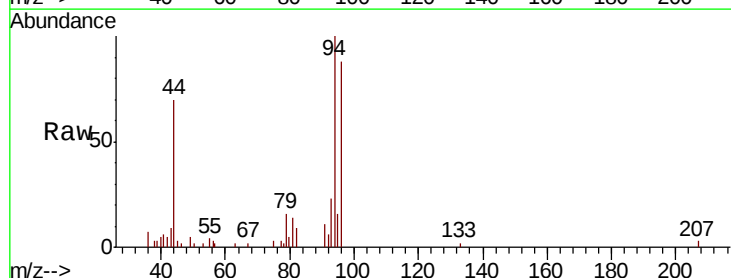
Acq: 25 Sep 2020 15:04

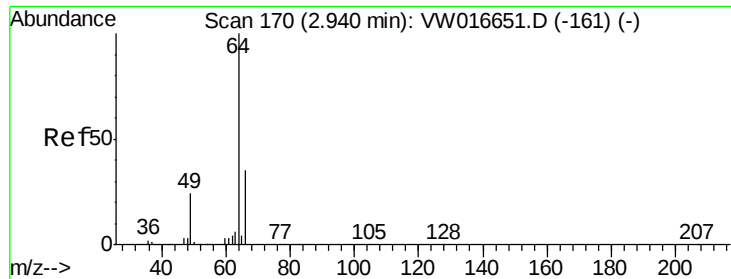
Tgt Ion: 94 Resp: 7309

Ion Ratio Lower Upper

94 100

96 88.5 64.2 119.2





#8

Chloroethane

Concen: 1.205 ug/L

RT: 2.94 min Scan# 170

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

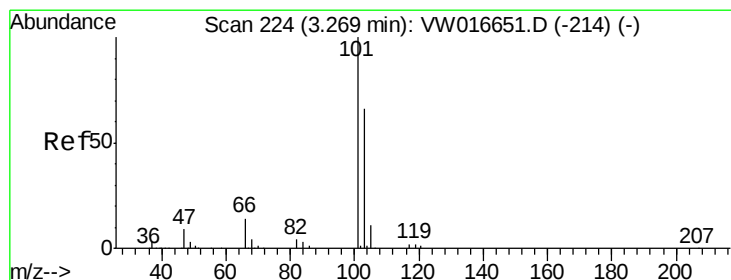
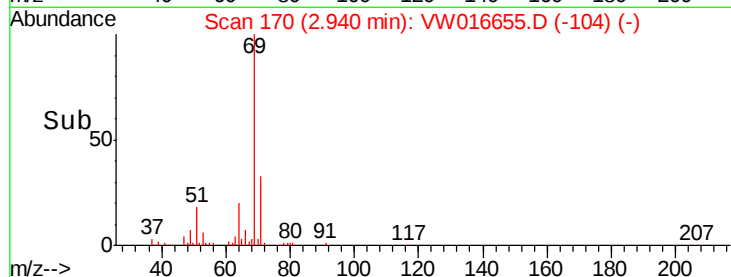
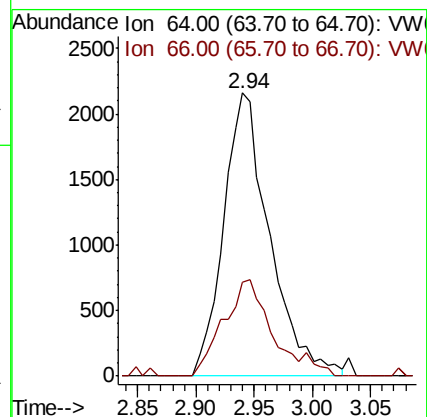
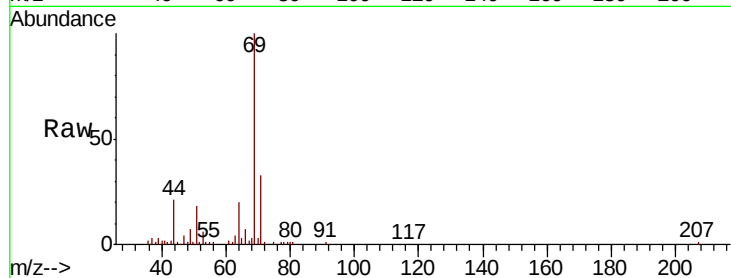
MDL-SOIL-07

Tot Ion: 64 Resp: 5913

Ion Ratio Lower Upper

64 100

66 33.3 23.5 43.7



#9

Trichlorofluoromethane

Concen: 1.005 ug/L

RT: 3.28 min Scan# 225

Delta R.T. 0.01 min

Lab File: VW016655.D

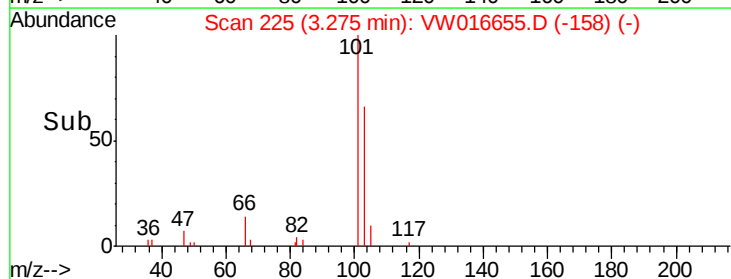
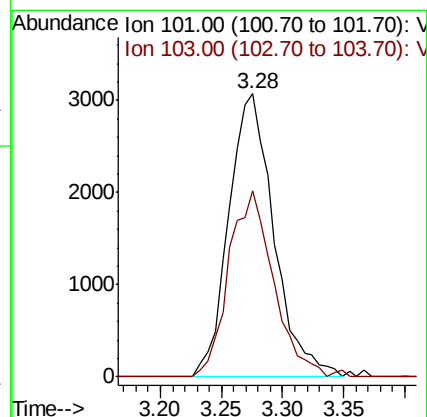
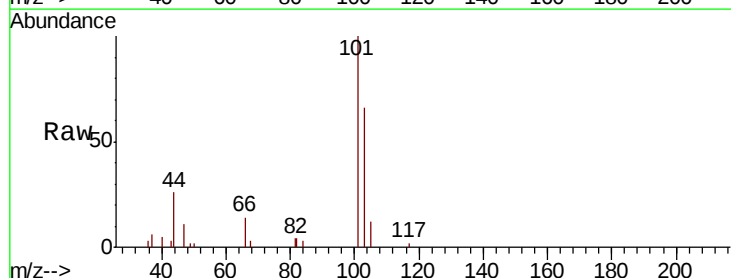
Acq: 25 Sep 2020 15:04

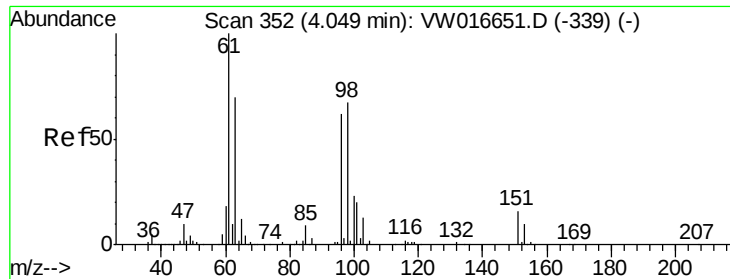
Tgt Ion: 101 Resp: 7870

Ion Ratio Lower Upper

101 100

103 64.9 51.8 77.8





#12

1,1-Dichloroethene

Concen: 0.866 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

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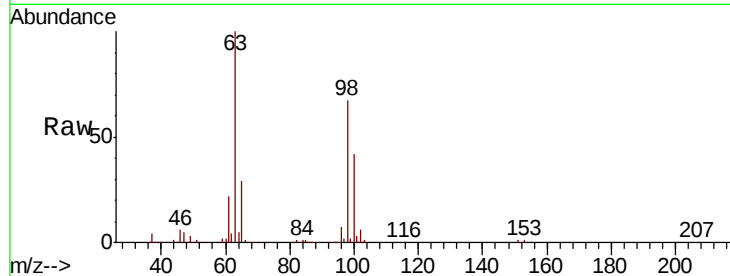
Tot Ion: 96 Resp: 6735

Ion Ratio Lower Upper

96 100

61 304.3 112.1 208.3#

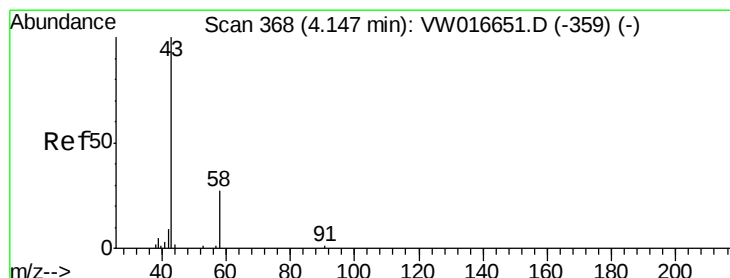
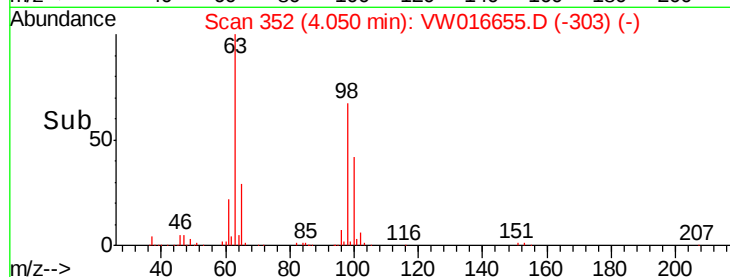
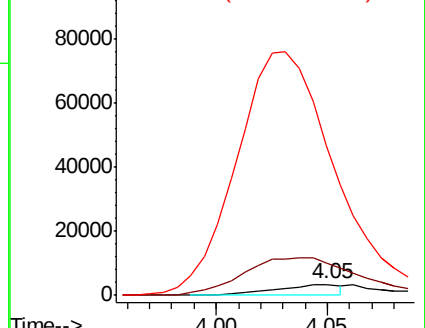
63 1400.0 74.2 137.8#



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW



#13

Acetone

Concen: 1.975 ug/L

RT: 4.13 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW016655.D

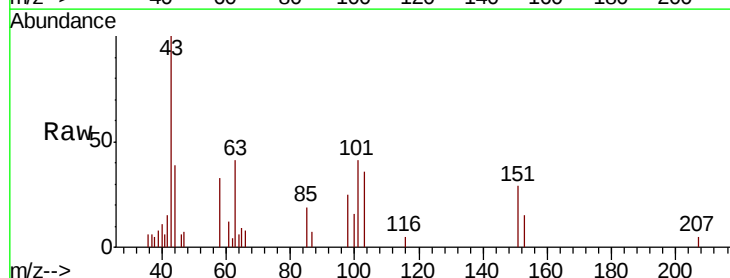
Acq: 25 Sep 2020 15:04

Tgt Ion: 43 Resp: 2029

Ion Ratio Lower Upper

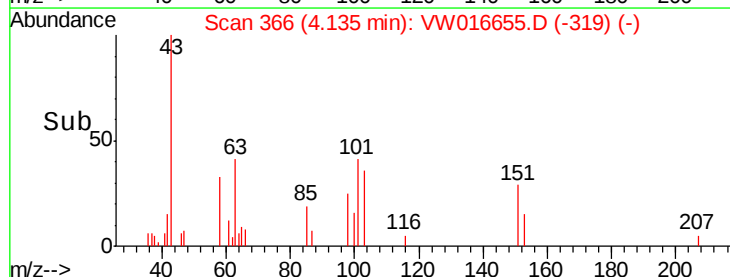
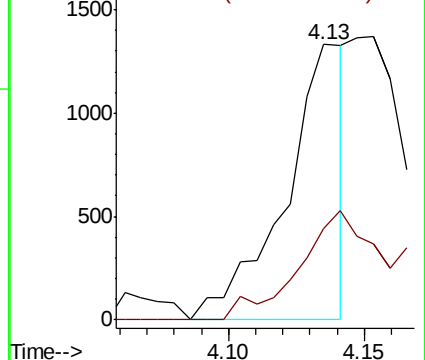
43 100

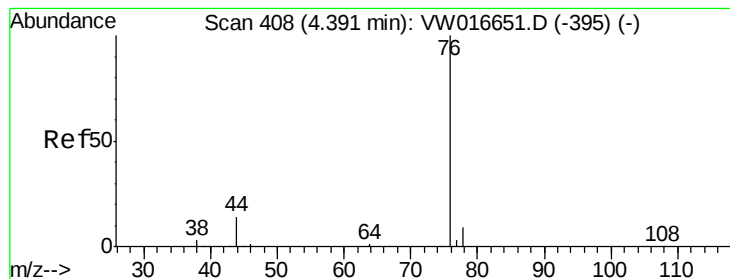
58 37.6 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 1.045 ug/L

RT: 4.40 min Scan# 410

Delta R.T. 0.01 min

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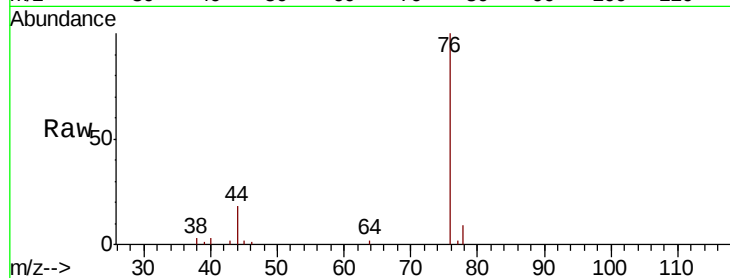
MDL-SOIL-07

Tot Ion: 76 Resp: 24137

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

8000

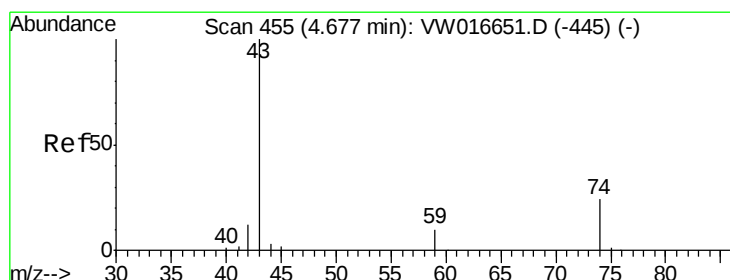
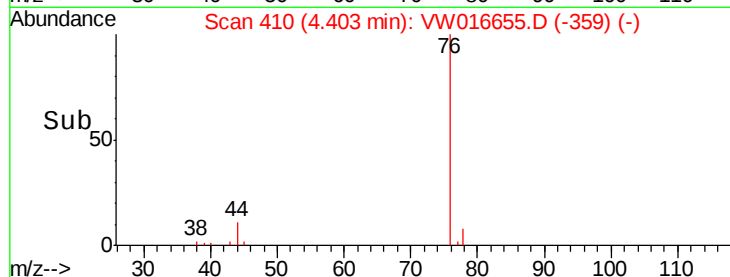
6000

4000

2000

0

Time-->



#15

Methyl Acetate

Concen: 1.254 ug/L

RT: 4.70 min Scan# 458

Delta R.T. 0.02 min

Lab File: VW016655.D

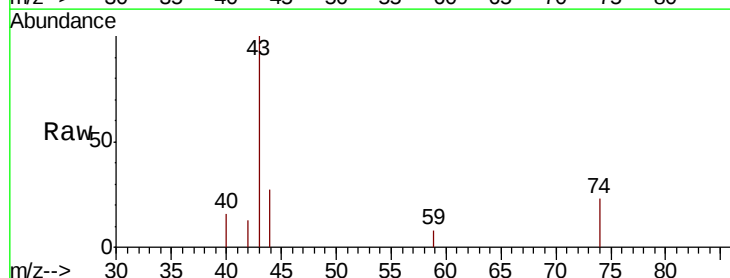
Acq: 25 Sep 2020 15:04

Tgt Ion: 43 Resp: 3161

Ion Ratio Lower Upper

43 100

74 8.3 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

1200

1000

800

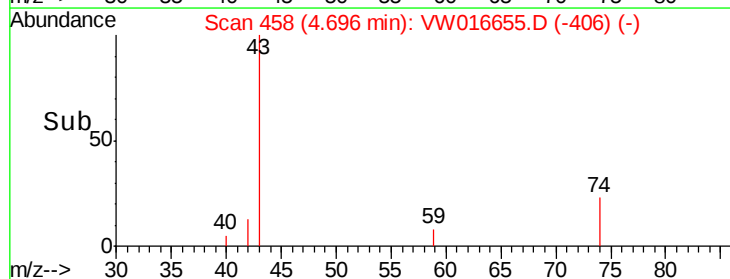
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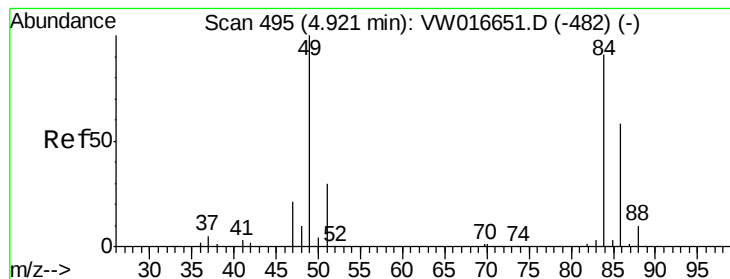
400

200

0

Time-->





#16

Methylene chloride

Concen: 3.028 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

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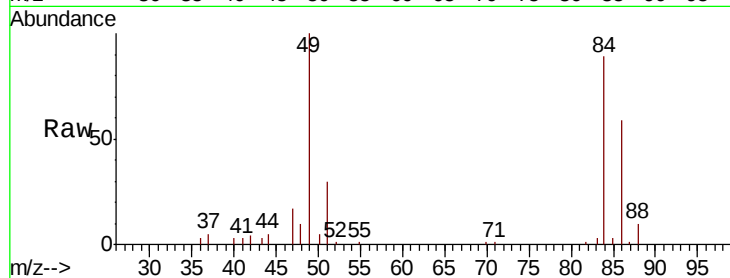
Tot Ion: 84 Resp: 26753

Ion Ratio Lower Upper

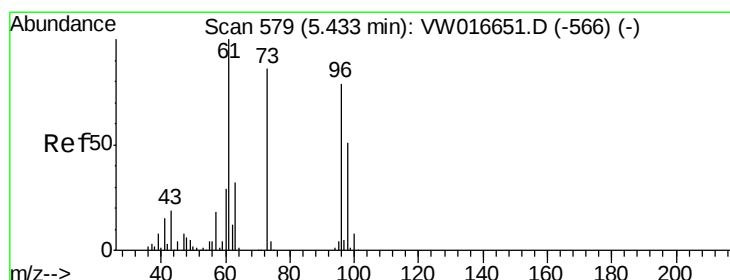
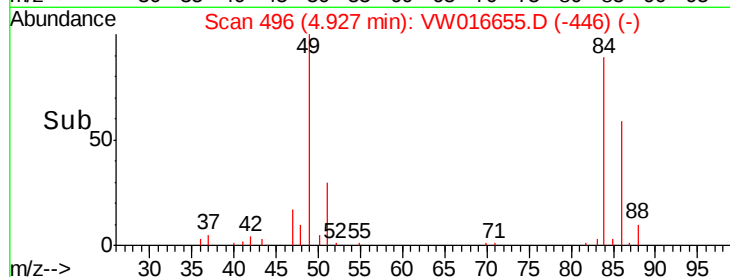
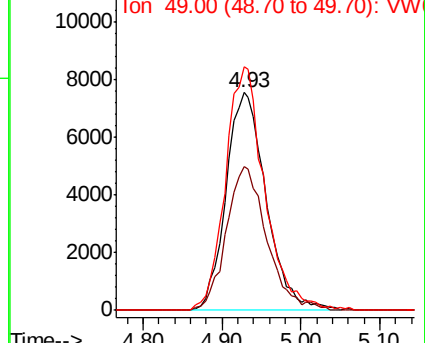
84 100

86 66.1 46.2 85.8

49 111.9 82.8 153.8



Abundance Ion 84.00 (83.70 to 84.70): VW
Ion 86.00 (85.70 to 86.70): VW
Ion 49.00 (48.70 to 49.70): VW



#17

trans-1,2-Dichloroethene

Concen: 1.172 ug/L

RT: 5.44 min Scan# 580

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

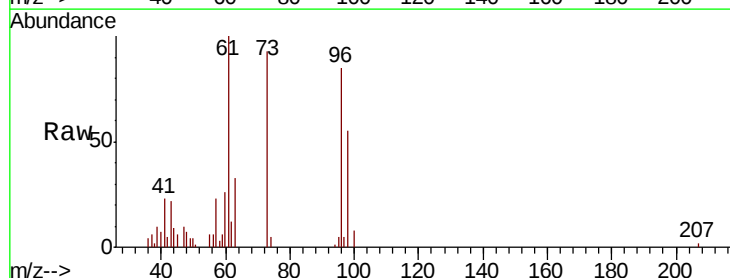
Tgt Ion: 96 Resp: 9455

Ion Ratio Lower Upper

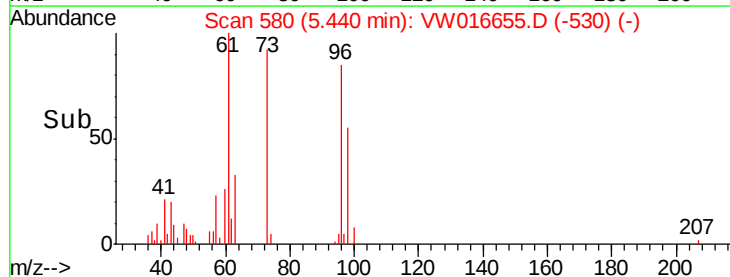
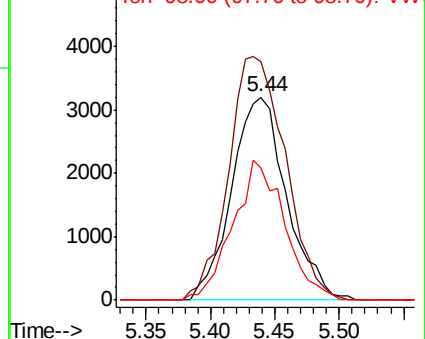
96 100

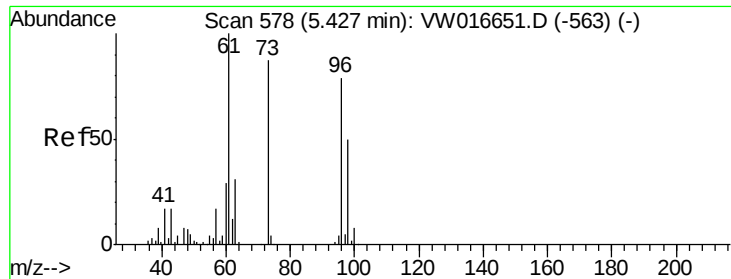
61 117.9 89.7 166.7

98 64.9 46.4 86.2



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW

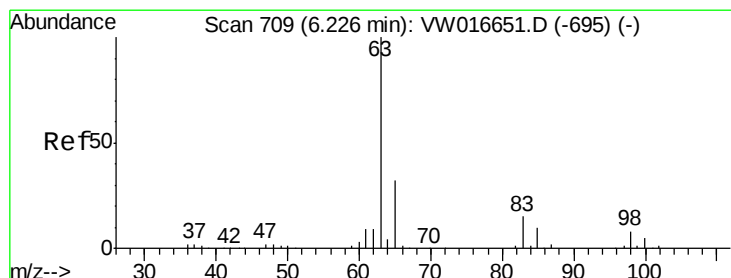
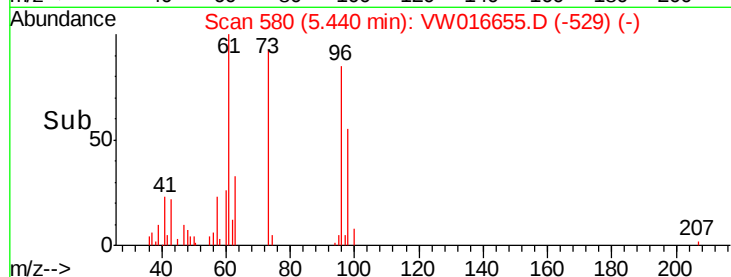
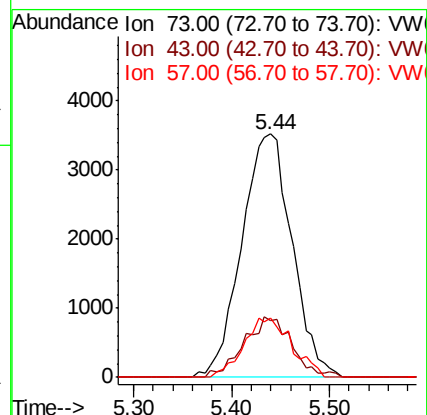
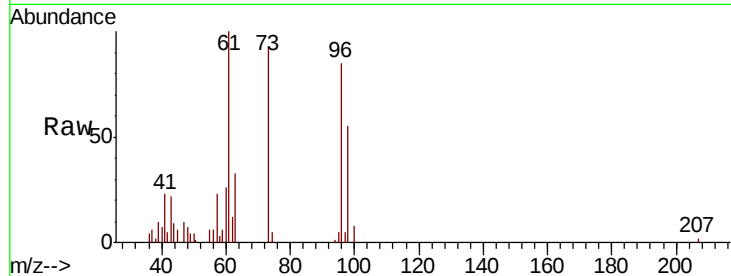




#18
Methvl tert-butvl Ether
Concen: 1.274 ug/L
RT: 5.44 min Scan# 580
Delta R.T. 0.01 min
Lab File: VW016655.D
Acq: 25 Sep 2020 15:04

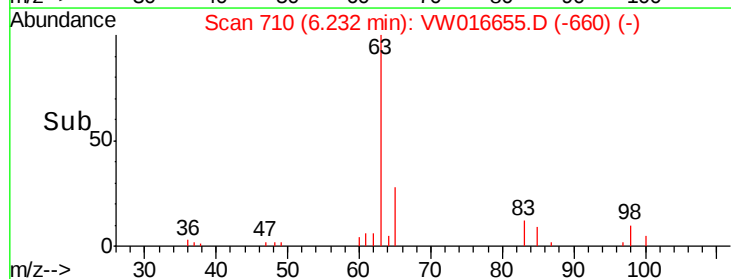
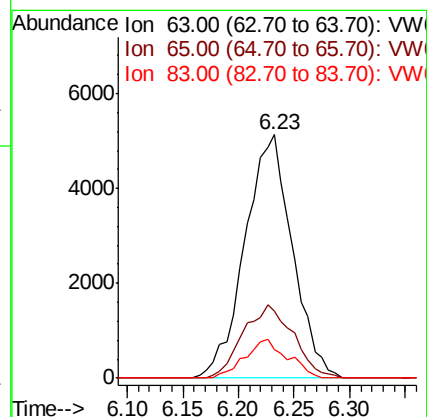
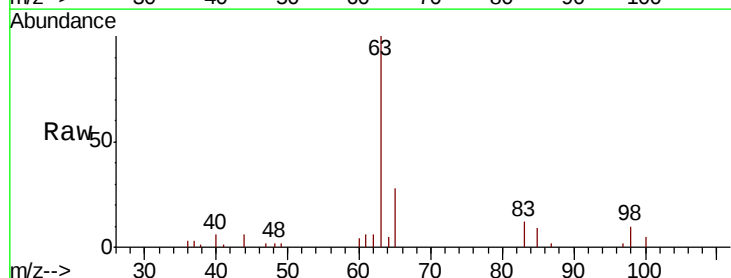
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-07

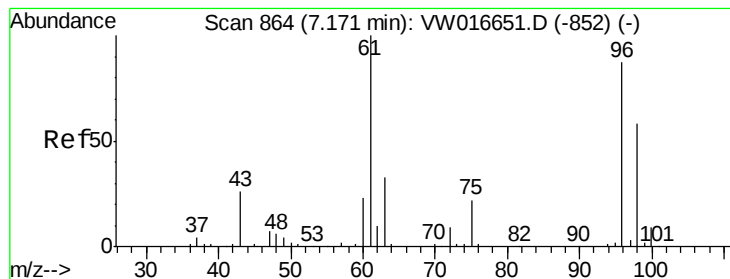
Tot Ion: 73 Resp: 12620
Ion Ratio Lower Upper
73 100
43 15.9 17.0 25.6#
57 17.5 16.3 24.5



#19
1,1-Dichloroethane
Concen: 1.190 ug/L
RT: 6.23 min Scan# 710
Delta R.T. 0.01 min
Lab File: VW016655.D
Acq: 25 Sep 2020 15:04

Tgt Ion: 63 Resp: 15205
Ion Ratio Lower Upper
63 100
65 27.6 21.8 40.6
83 11.8 10.2 19.0





#20

cis-1,2-Dichloroethene

Concen: 1.196 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-07

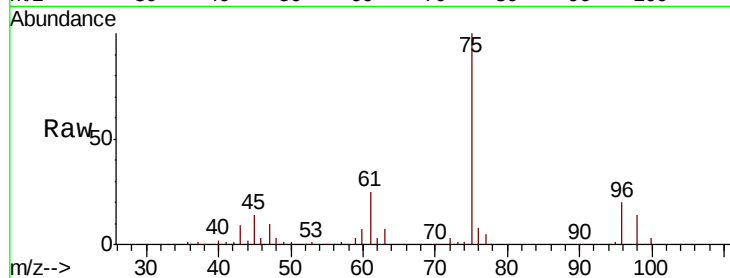
Tot Ion: 96 Resp: 10025

Ion Ratio Lower Upper

96 100

61 122.2 79.2 147.0

68 0.0 0.0 0.0

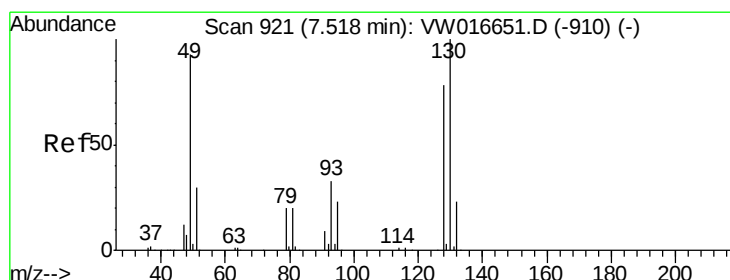
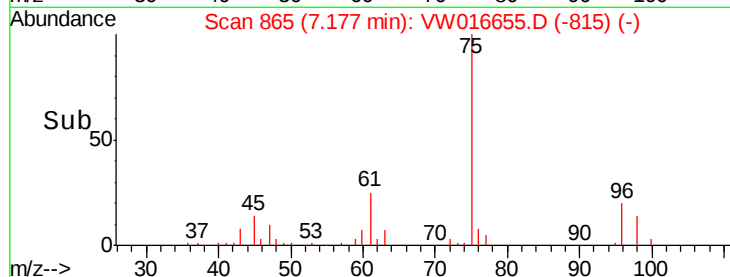
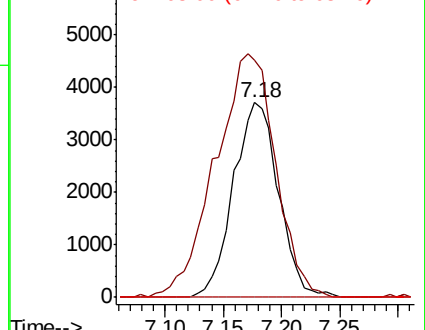


Abundance

Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 68.00 (67.70 to 68.70): VW



#23

Bromochloromethane

Concen: 1.210 ug/L

RT: 7.52 min Scan# 922

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Tgt Ion: 128 Resp: 4771

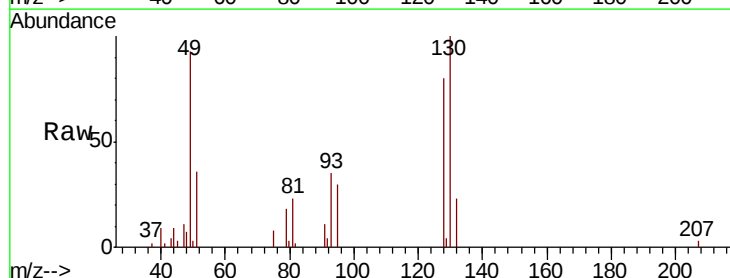
Ion Ratio Lower Upper

128 100

49 116.6 91.5 169.9

130 124.9 89.0 165.4

51 45.1 33.0 49.6



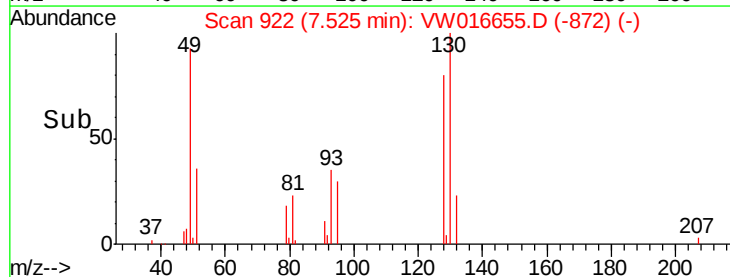
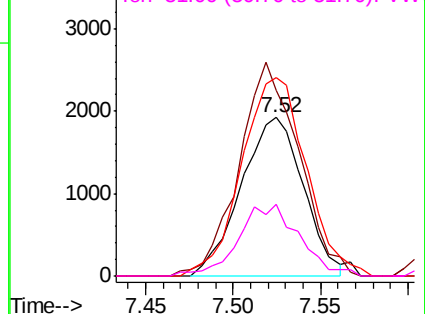
Abundance

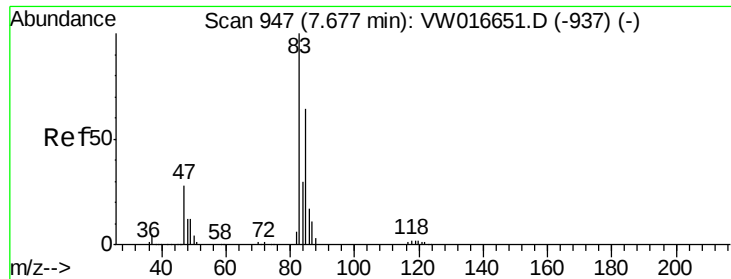
Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 1.210 ug/L

RT: 7.68 min Scan# 948

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

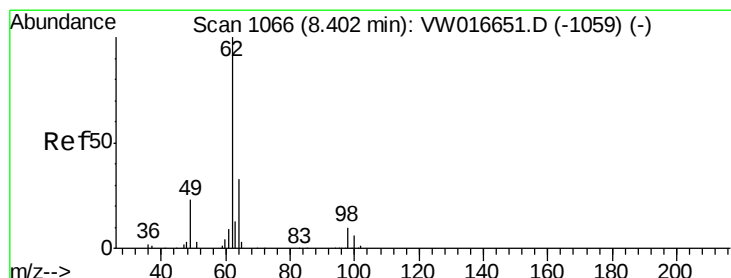
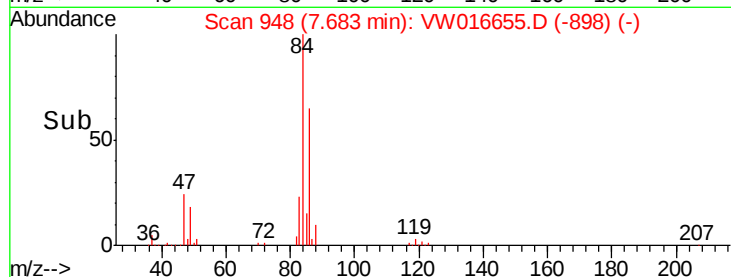
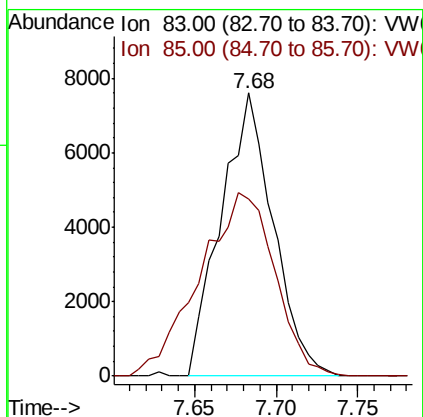
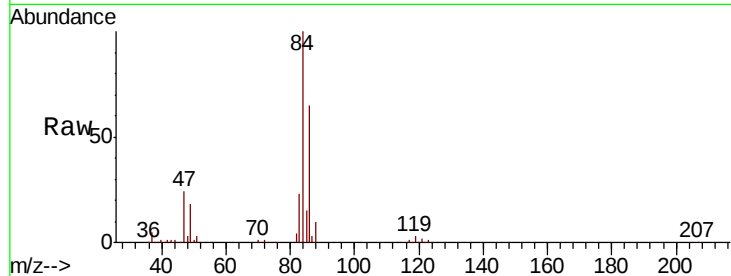
MDL-SOIL-07

Tot Ion: 83 Resp: 16918

Ion Ratio Lower Upper

83 100

85 62.4 45.4 84.4



#27

1,2-Dichloroethane

Concen: 1.308 ug/L

RT: 8.41 min Scan# 1067

Delta R.T. 0.01 min

Lab File: VW016655.D

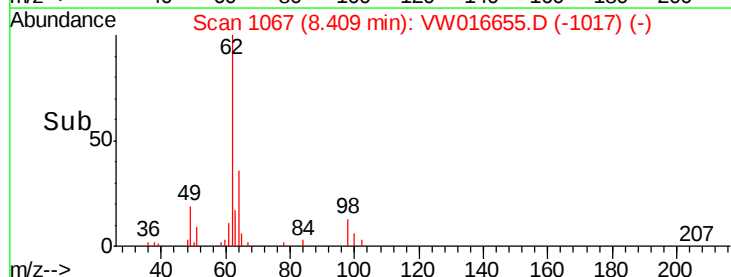
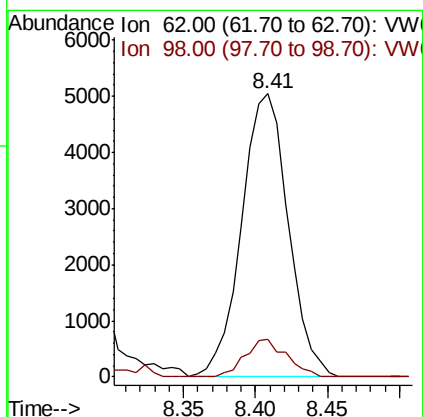
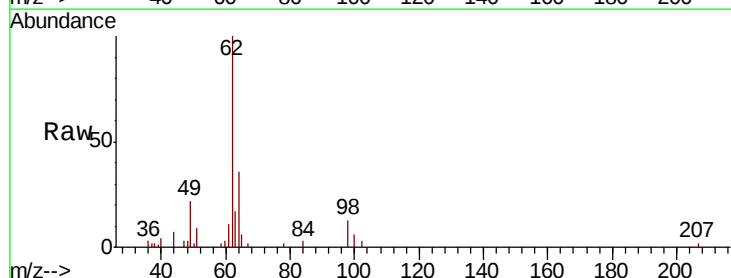
Acq: 25 Sep 2020 15:04

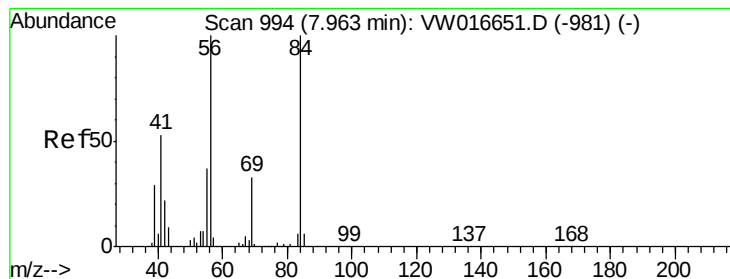
Tgt Ion: 62 Resp: 11349

Ion Ratio Lower Upper

62 100

98 13.1 7.3 10.9#





#29

Cyclohexane

Concen: 1.104 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-07

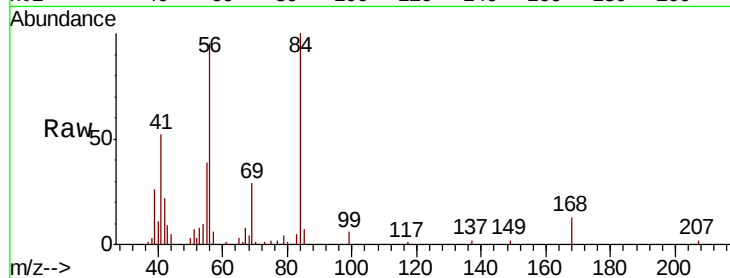
Tot Ion: 56 Resp: 13613

Ion Ratio Lower Upper

56 100

69 31.0 26.4 39.6

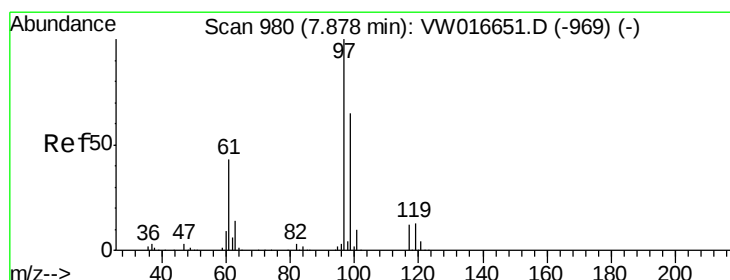
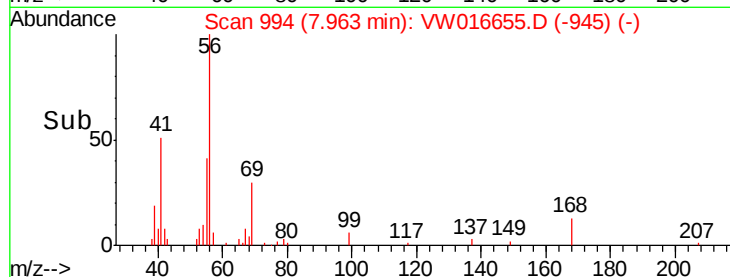
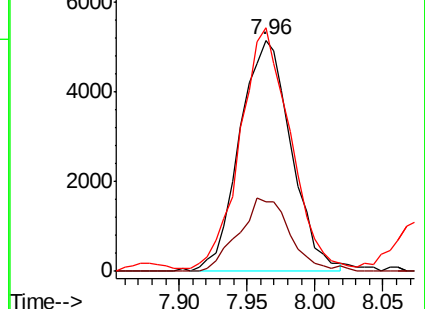
84 101.1 79.9 119.9



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#30

1,1,1-Trichloroethane

Concen: 1.135 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

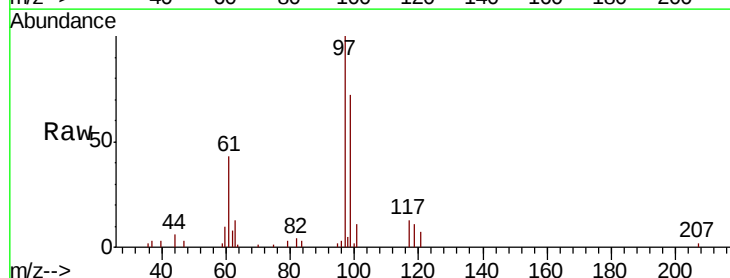
Tgt Ion: 97 Resp: 14936

Ion Ratio Lower Upper

97 100

99 66.0 50.9 76.3

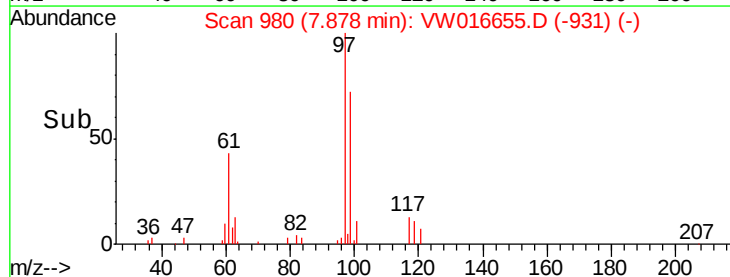
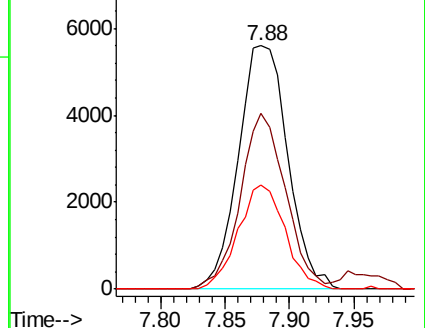
61 40.5 33.2 49.8

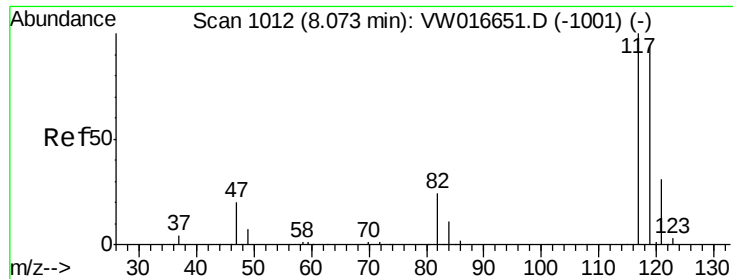


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.05 (60.75 to 61.75): VW

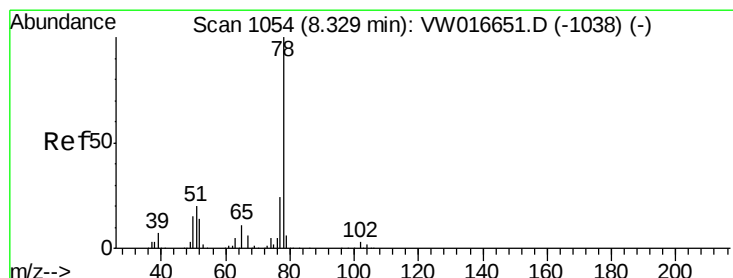
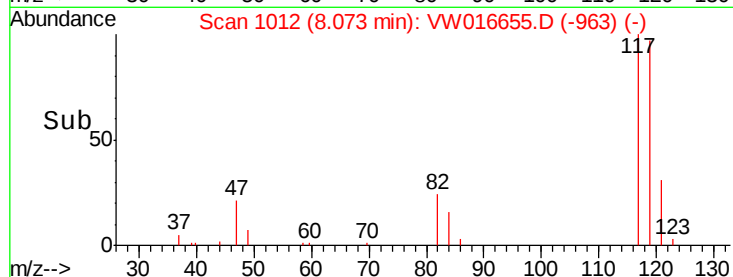
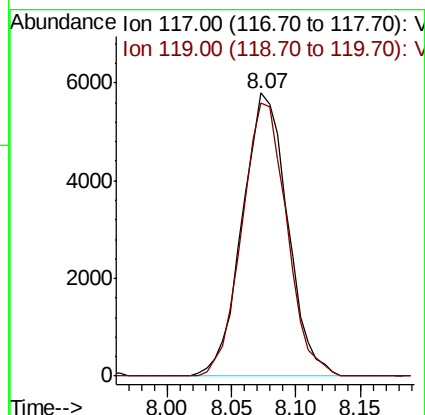
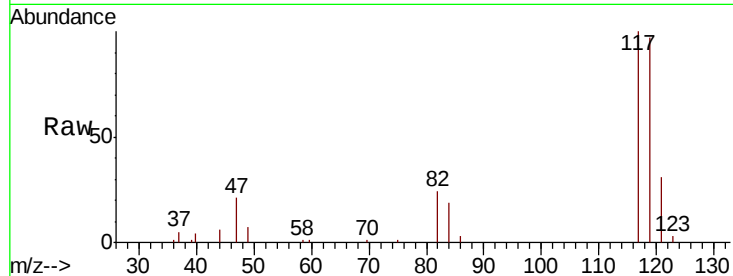




#31
Carbon tetrachloride
Concen: 1.101 ug/L
RT: 8.07 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VW016655.D
Acq: 25 Sep 2020 15:04

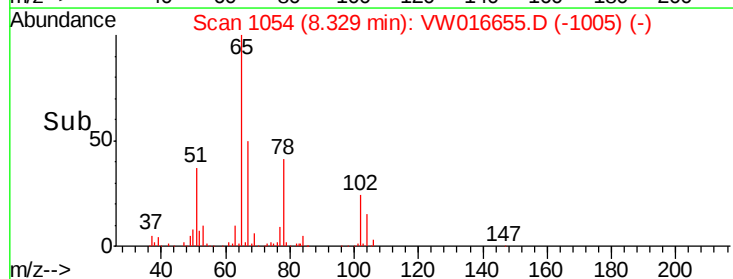
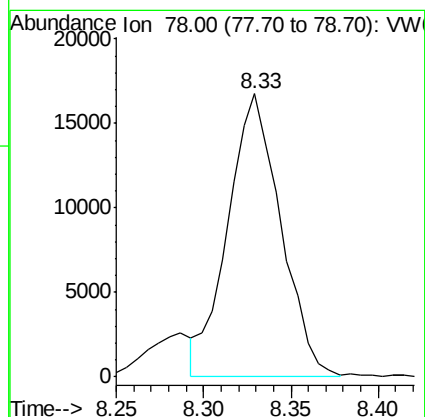
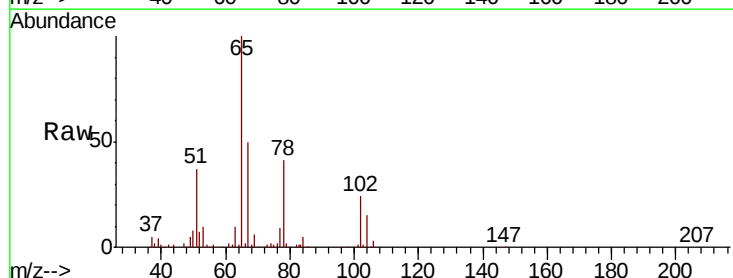
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-07

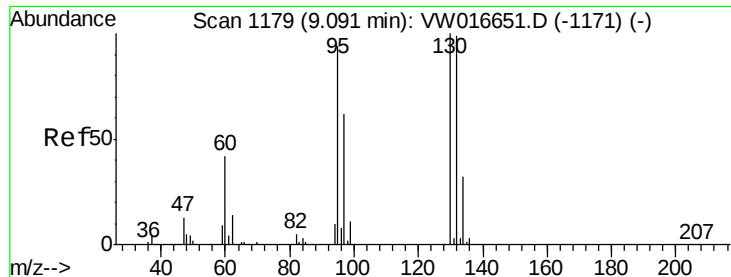
Tot Ion:117 Resp: 14103
Ion Ratio Lower Upper
117 100
119 95.5 76.7 115.1



#33
Benzene
Concen: 1.151 ug/L
RT: 8.33 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VW016655.D
Acq: 25 Sep 2020 15:04

Tgt Ion: 78 Resp: 35190

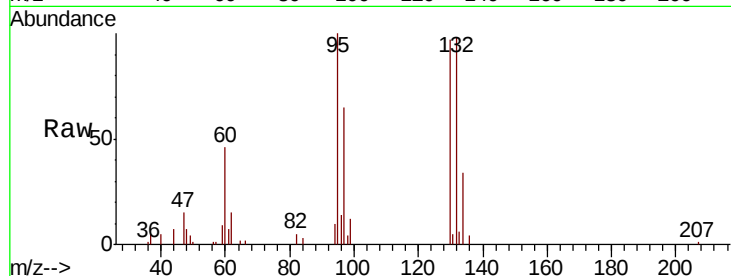




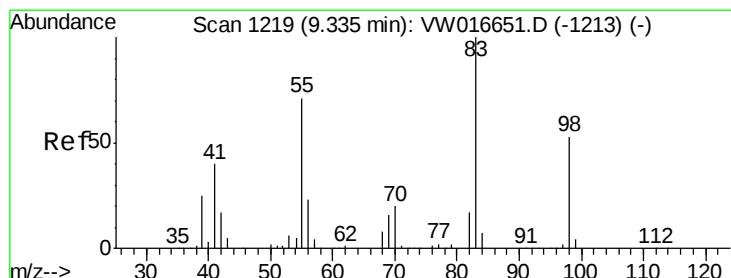
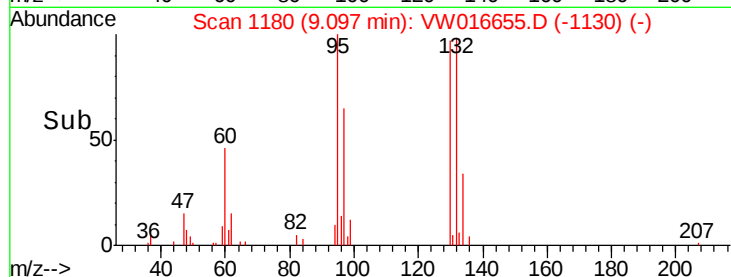
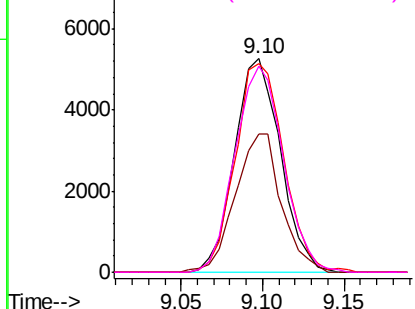
#34
 Trichloroethene
 Concen: 1.176 ug/L
 RT: 9.10 min Scan# 1180
 Delta R.T. 0.01 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-07

Tot Ion:	95	Resp:	10313
Ion	Ratio	Lower	Upper
95	100		
97	64.8	45.1	83.9
132	97.6	73.8	137.2
130	96.7	78.3	145.5

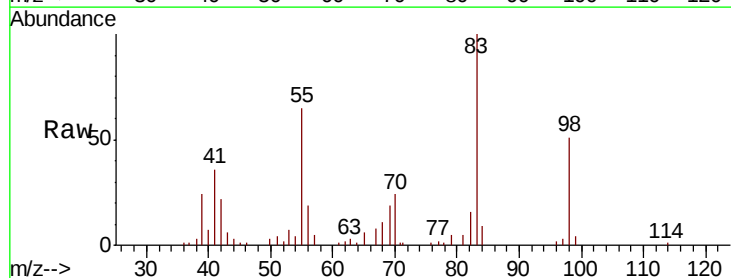


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

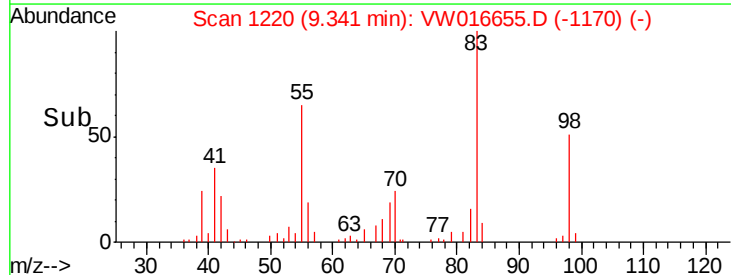
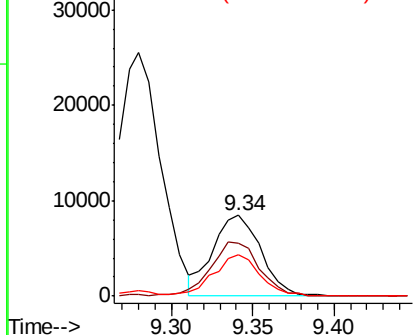


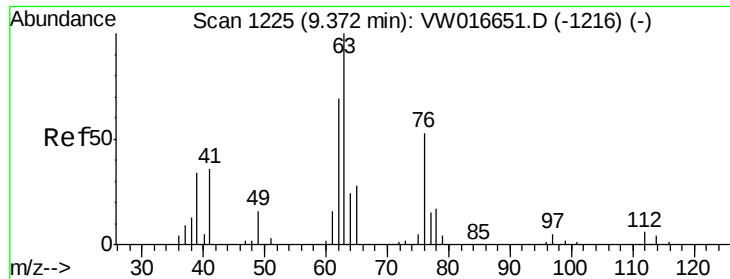
#35
 Methylcyclohexane
 Concen: 1.183 ug/L
 RT: 9.34 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

Tgt Ion:	83	Resp:	17337
Ion	Ratio	Lower	Upper
83	100		
55	68.3	55.9	83.9
98	49.6	41.5	62.3



Abundance Ion 83.00 (82.70 to 83.70): VW
 Ion 55.00 (54.70 to 55.70): VW
 Ion 98.00 (97.70 to 98.70): VW

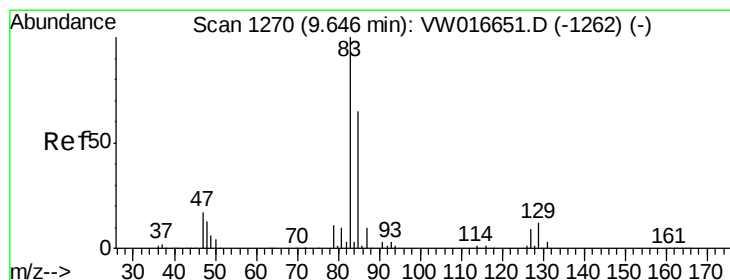
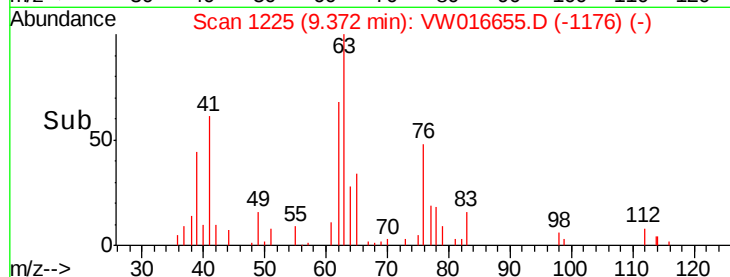
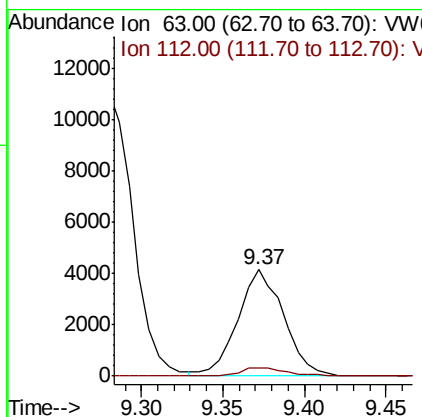
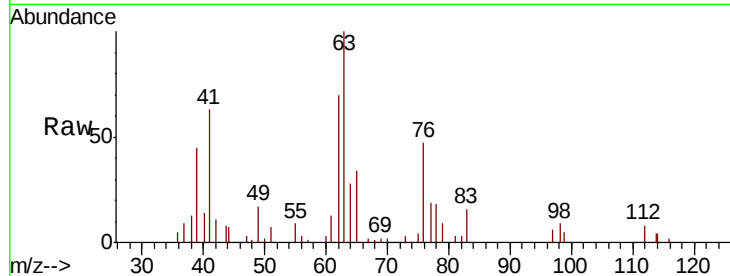




#37
 1,2-Dichloropropane
 Concen: 1.178 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

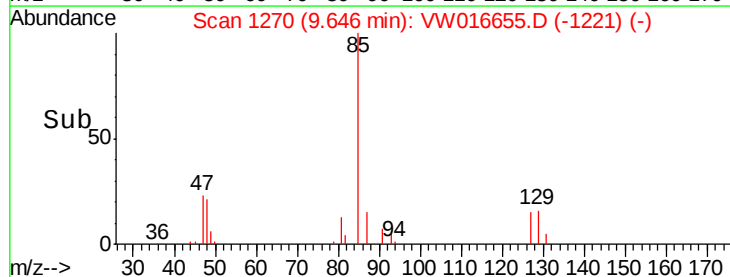
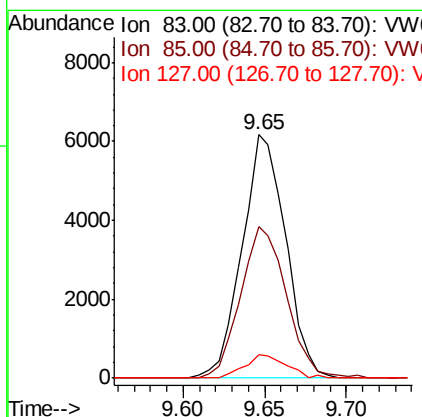
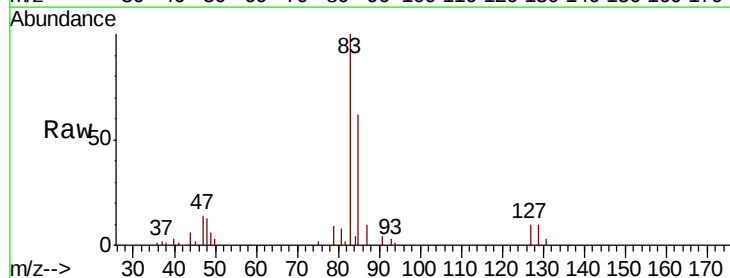
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-07

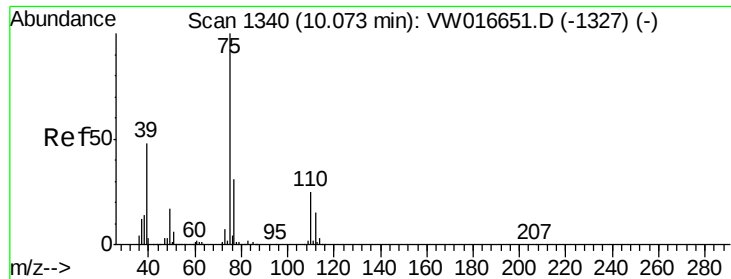
Tot Ion: 63 Resp: 8217
 Ion Ratio Lower Upper
 63 100
 112 7.3 4.2 6.4#



#38
 Bromodichloromethane
 Concen: 1.108 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

Tgt Ion: 83 Resp: 11459
 Ion Ratio Lower Upper
 83 100
 85 62.1 43.7 81.1
 127 9.6 7.4 11.2





#39

cis-1,3-Dichloropropene

Concen: 1.082 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

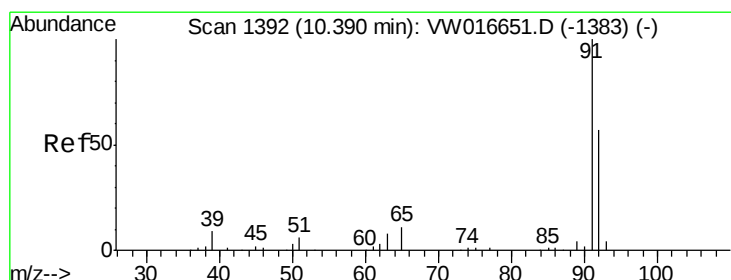
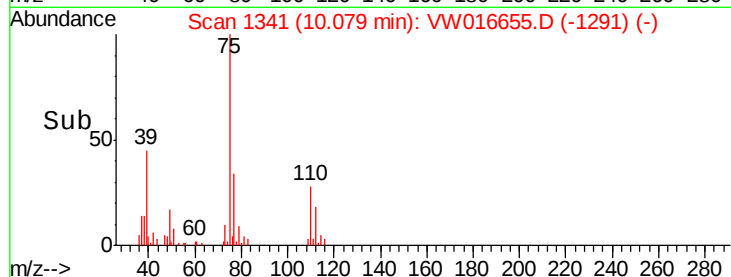
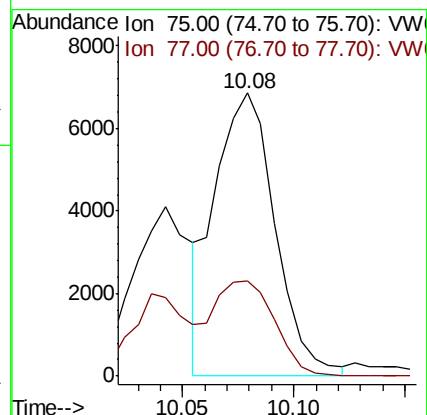
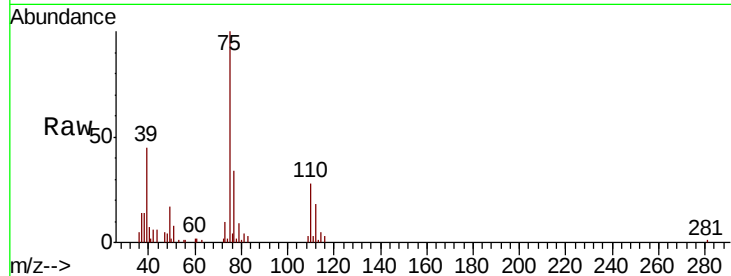
MDL-SOIL-07

Tot Ion: 75 Resp: 12878

Ion Ratio Lower Upper

75 100

77 33.6 23.0 42.6



#42

Toluene

Concen: 1.175 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016655.D

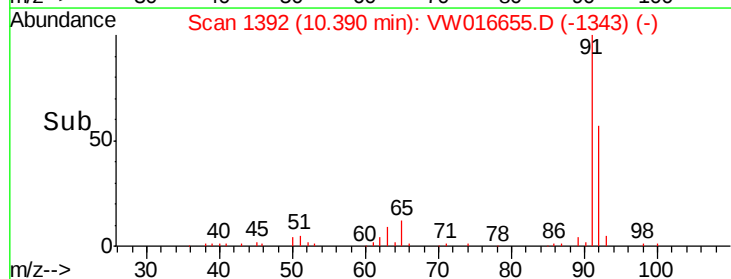
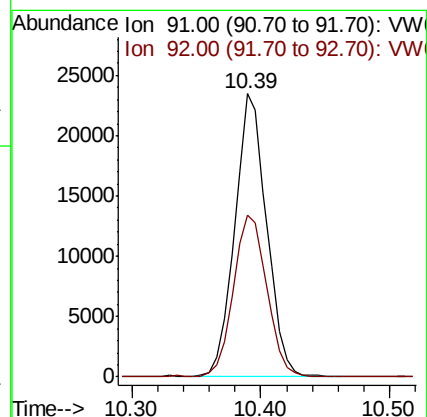
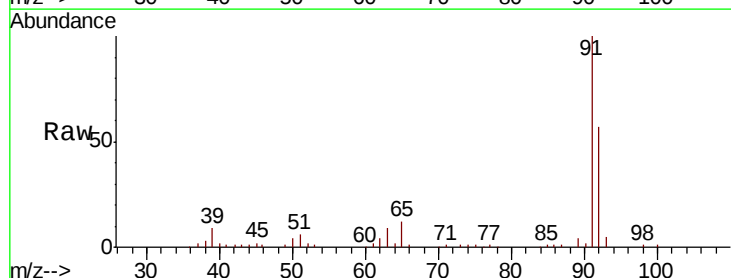
Acq: 25 Sep 2020 15:04

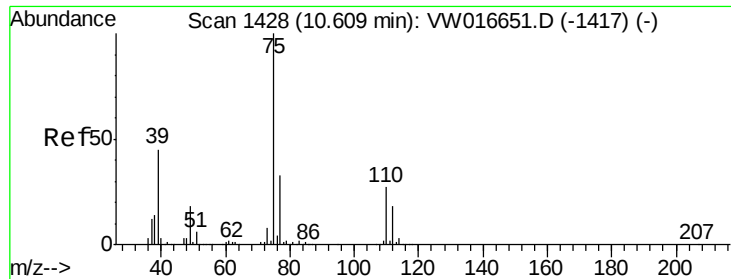
Tgt Ion: 91 Resp: 40477

Ion Ratio Lower Upper

91 100

92 57.3 41.1 76.3





#44

trans-1,3-Dichloropropene

Concen: 1.571 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

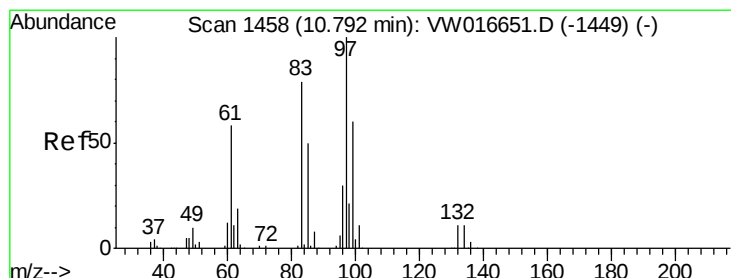
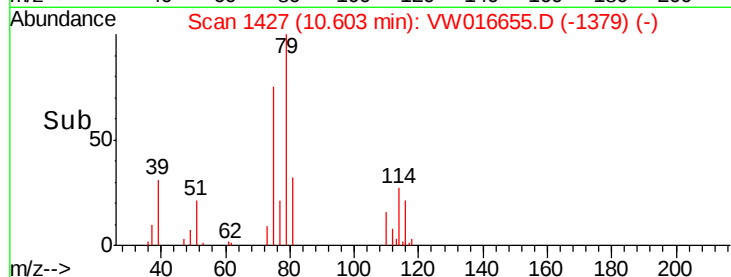
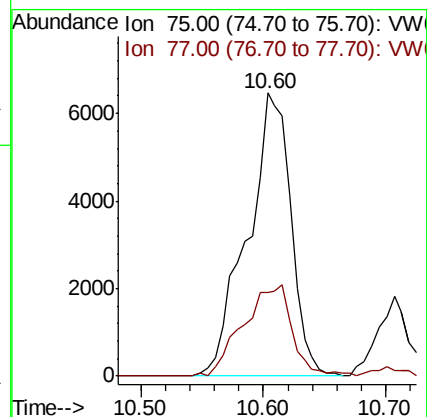
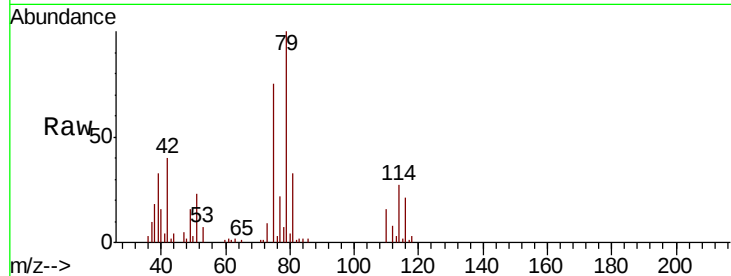
MDL-SOIL-07

Tot Ion: 75 Resp: 16034

Ion Ratio Lower Upper

75 100

77 29.4 22.1 41.1



#45

1,1,2-Trichloroethane

Concen: 1.214 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Tgt Ion: 97 Resp: 6876

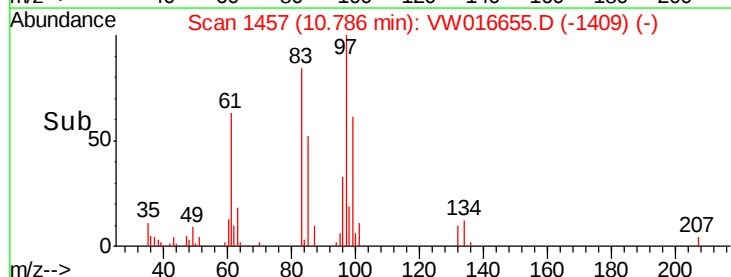
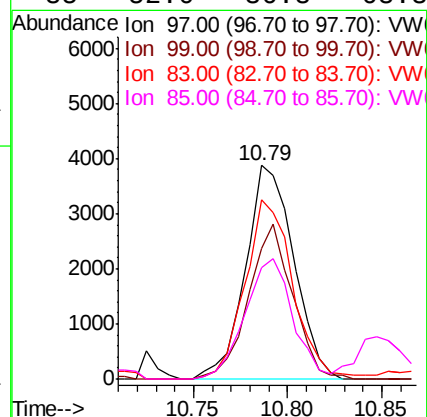
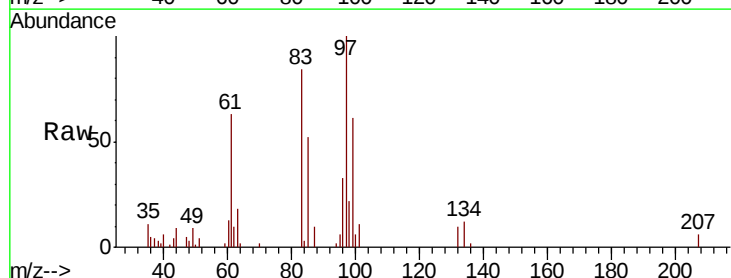
Ion Ratio Lower Upper

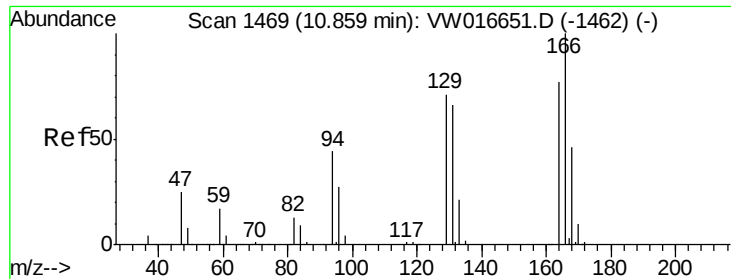
97 100

99 61.3 44.5 82.7

83 83.7 58.4 108.4

85 52.0 36.8 68.3





#46

Tetrachloroethene

Concen: 1.181 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-07

Tot Ion:164 Resp: 9349

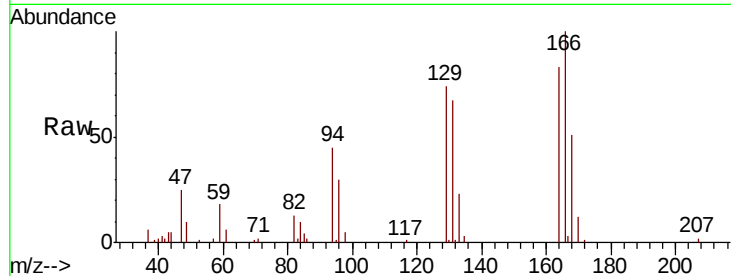
Ion Ratio Lower Upper

164 100

129 89.3 61.4 114.0

131 80.1 62.8 116.6

166 119.9 90.8 168.6

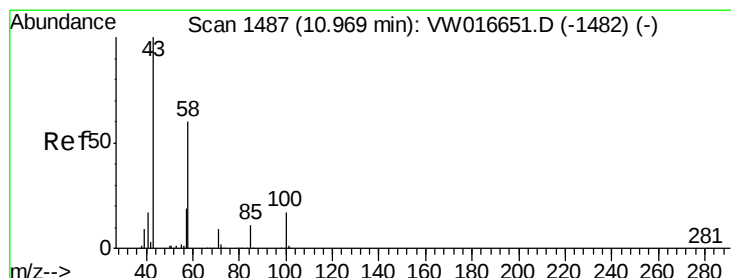
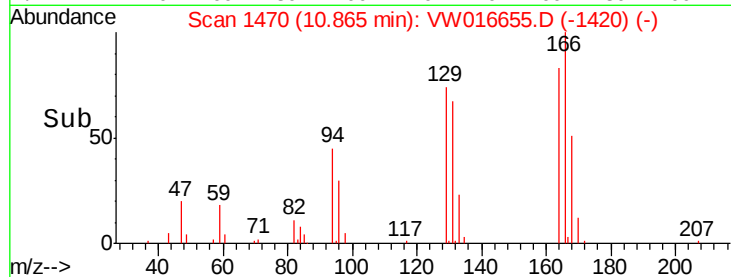
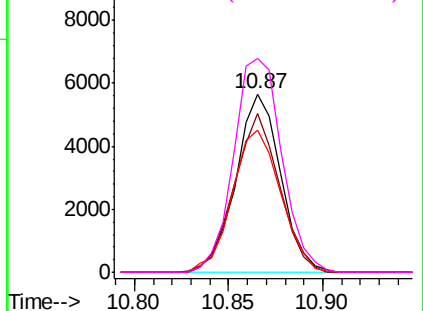


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 2.742 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Tgt Ion: 43 Resp: 6663

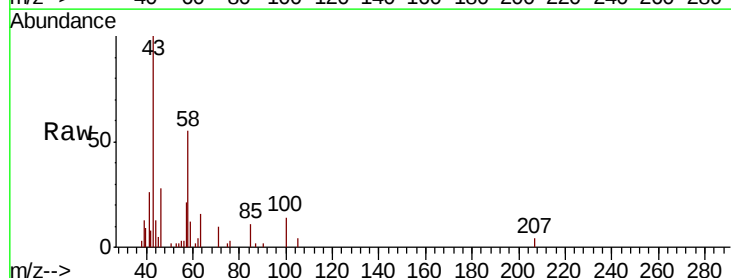
Ion Ratio Lower Upper

43 100

58 53.3 45.9 68.9

57 22.2 16.6 24.8

100 17.9 12.3 18.5

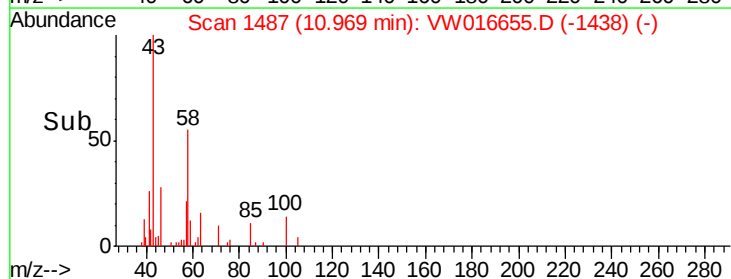
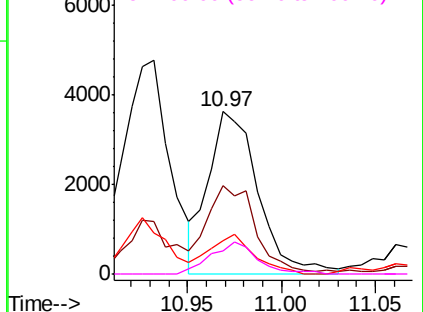


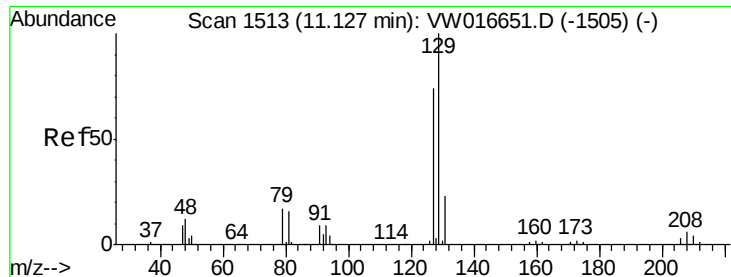
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#49

Dibromochloromethane

Concen: 1.156 ug/L

RT: 11.13 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampled :

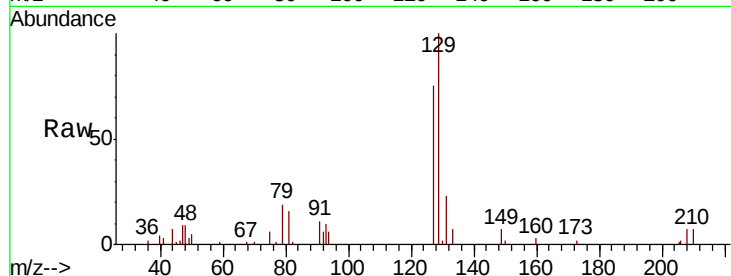
MDL-SOIL-07

Tot Ion:129 Resp: 8592

Ion Ratio Lower Upper

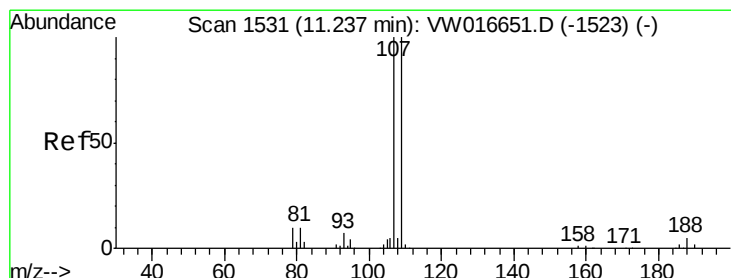
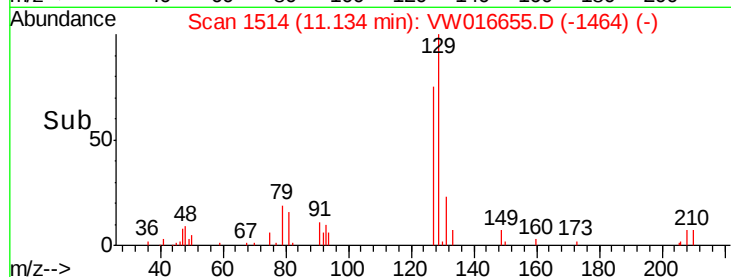
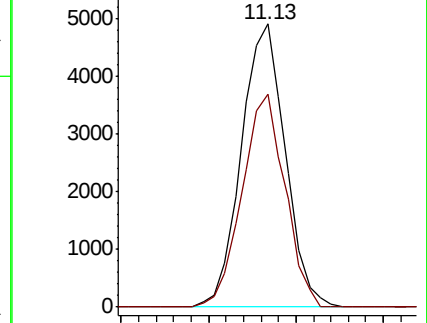
129 100

127 75.0 52.5 97.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 1.233 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

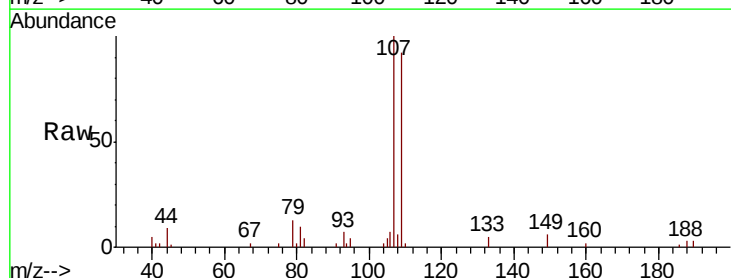
Tgt Ion:107 Resp: 6916

Ion Ratio Lower Upper

107 100

109 91.9 66.2 123.0

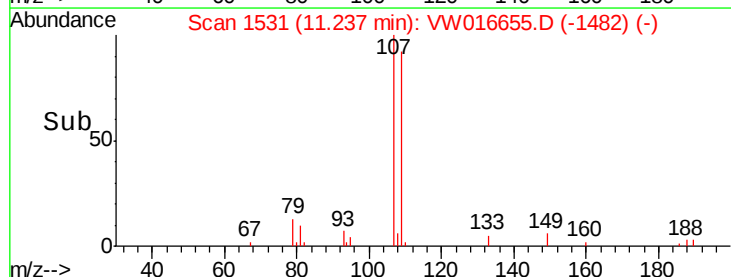
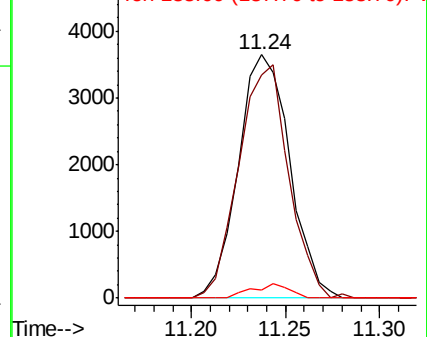
188 3.1 3.3 4.9#

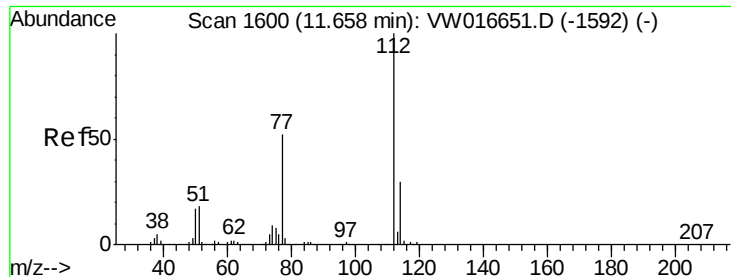


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 1.153 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-07

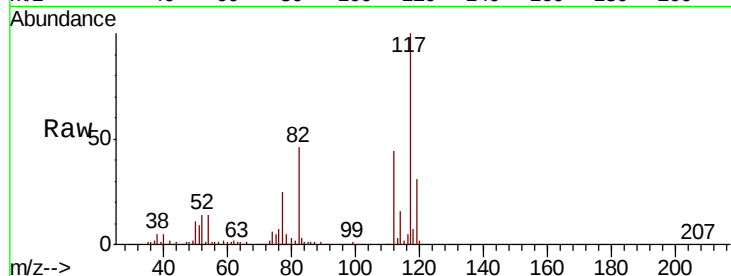
Tot Ion:112 Resp: 26339

Ion Ratio Lower Upper

112 100

114 35.6 22.9 42.5

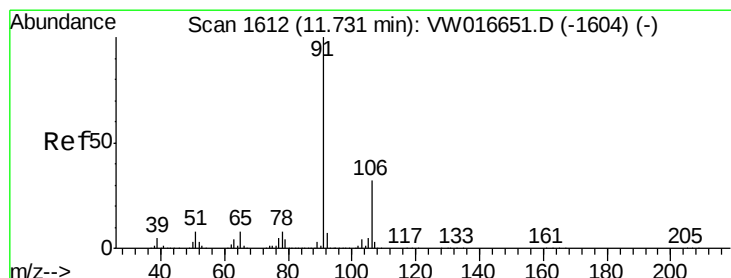
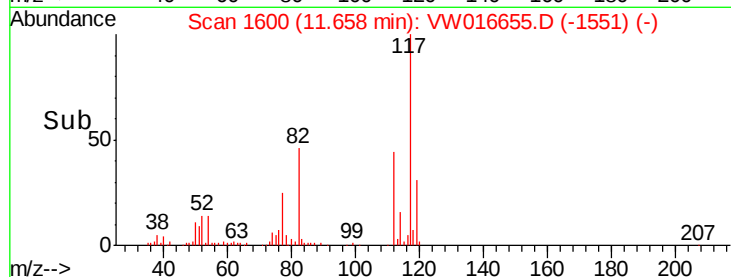
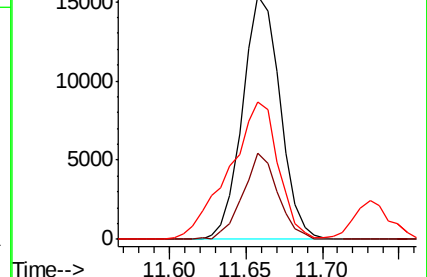
77 56.6 43.8 65.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 1.128 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016655.D

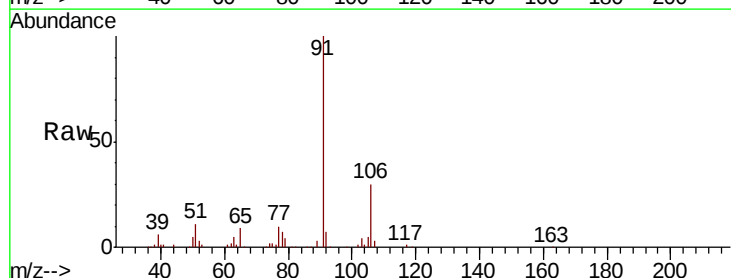
Acq: 25 Sep 2020 15:04

Tgt Ion: 91 Resp: 43773

Ion Ratio Lower Upper

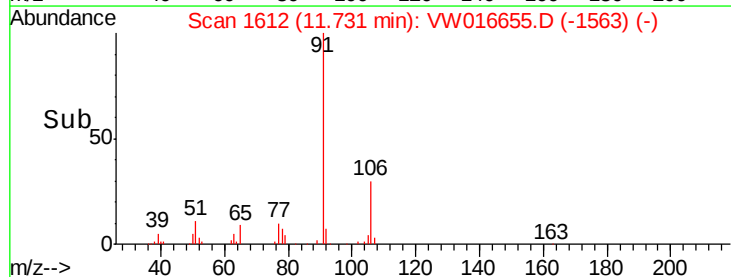
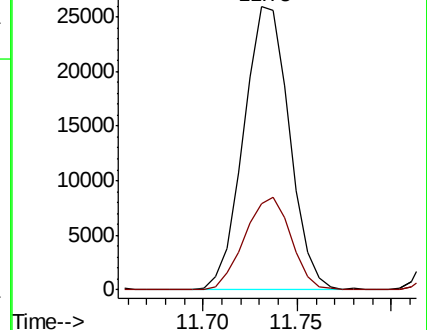
91 100

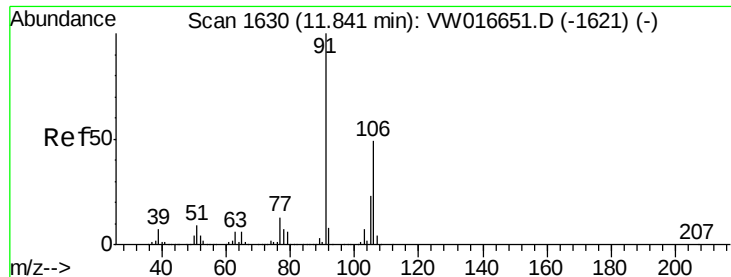
106 30.4 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1.147 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampled :

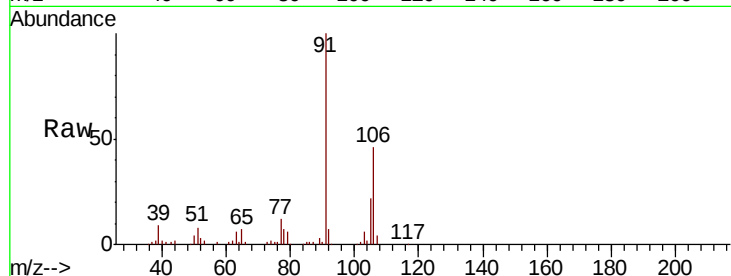
MDL-SOIL-07

Tot Ion:106 Resp: 17339

Ion Ratio Lower Upper

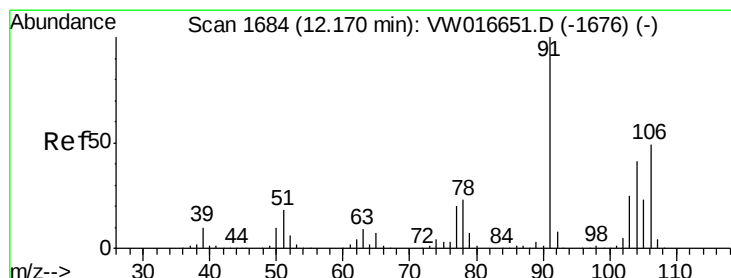
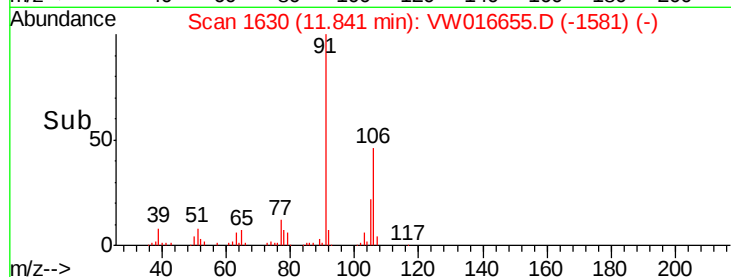
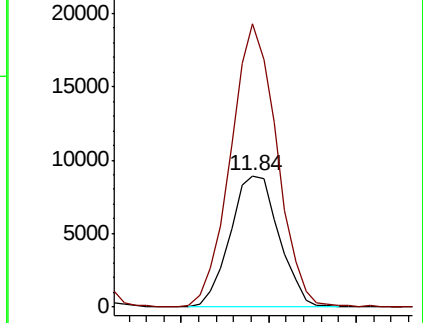
106 100

91 215.1 136.2 252.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#54

o-Xylene

Concen: 1.133 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW016655.D

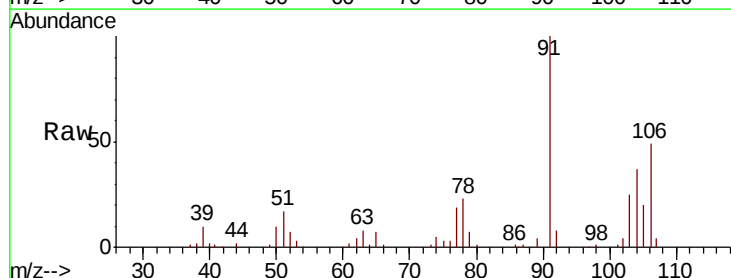
Acq: 25 Sep 2020 15:04

Tgt Ion:106 Resp: 16206

Ion Ratio Lower Upper

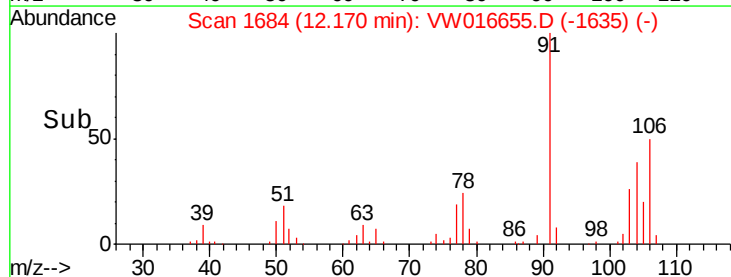
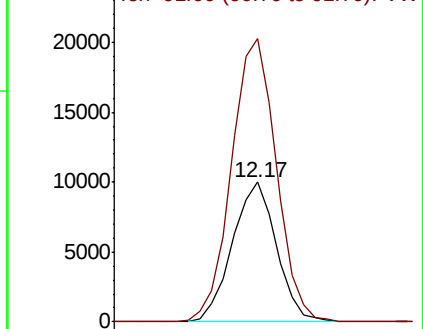
106 100

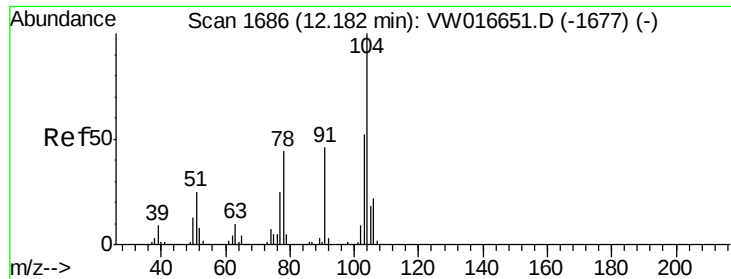
91 202.7 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

Stvrene

Concen: 1.057 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

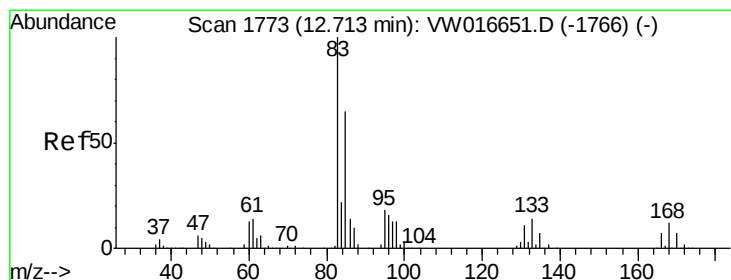
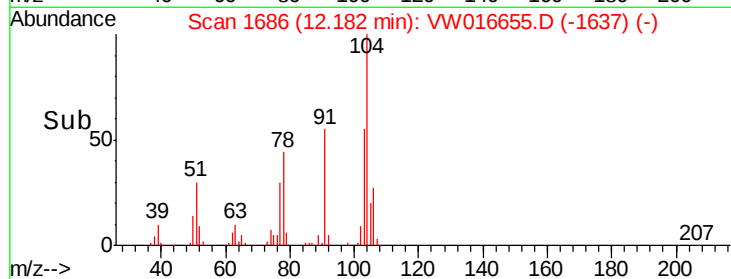
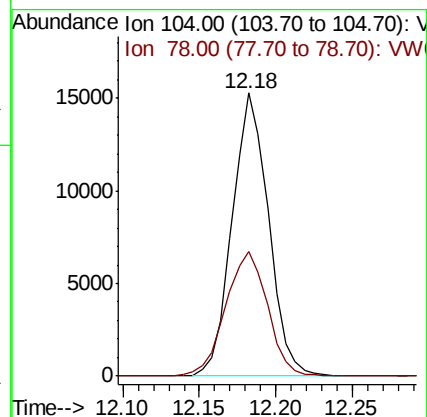
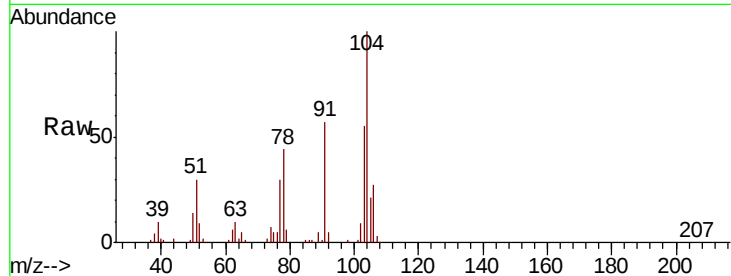
MDL-SOIL-07

Tot Ion:104 Resp: 25165

Ion Ratio Lower Upper

104 100

78 44.0 31.1 57.9



#57

1,1,2,2-Tetrachloroethane

Concen: 1.384 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

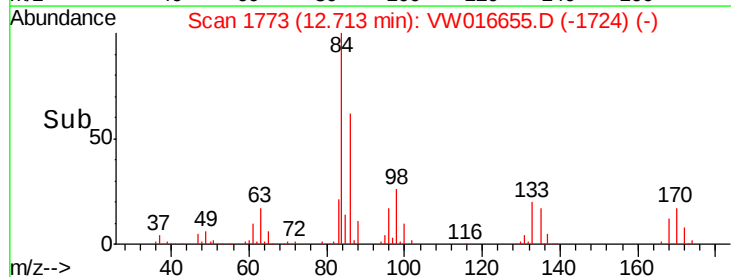
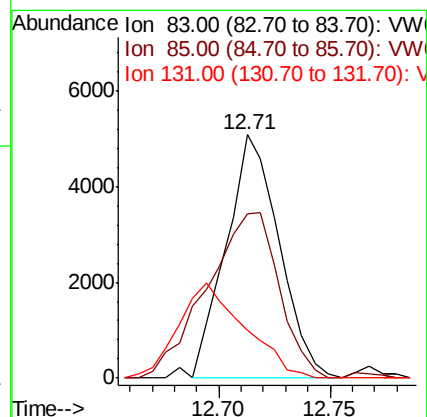
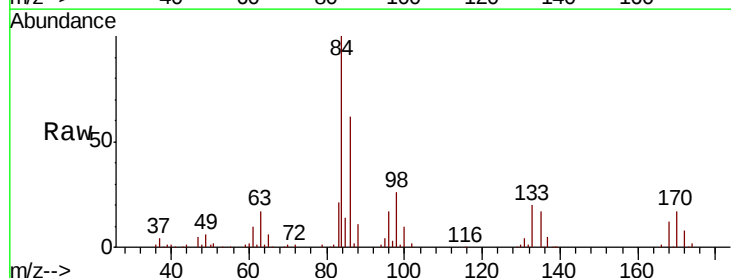
Tgt Ion: 83 Resp: 8439

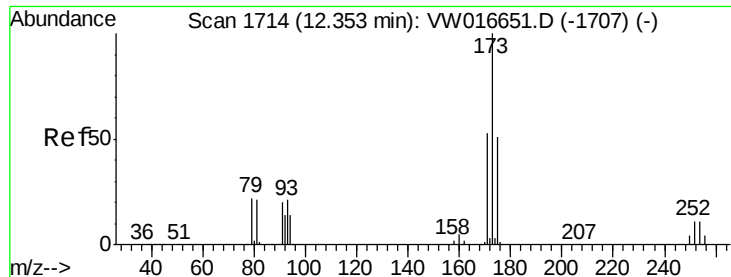
Ion Ratio Lower Upper

83 100

85 67.6 46.3 85.9

131 19.8 9.3 13.9#





#59

Bromoform

Concen: 1.085 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-07

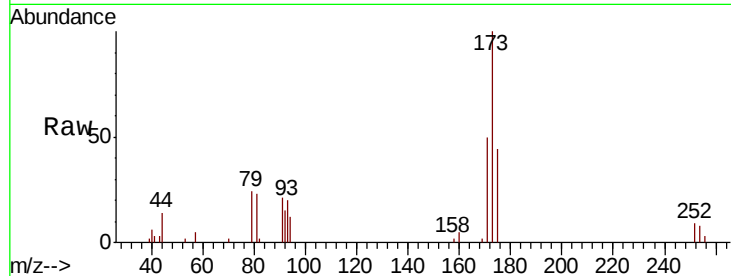
Tot Ion:173 Resp: 4900

Ion Ratio Lower Upper

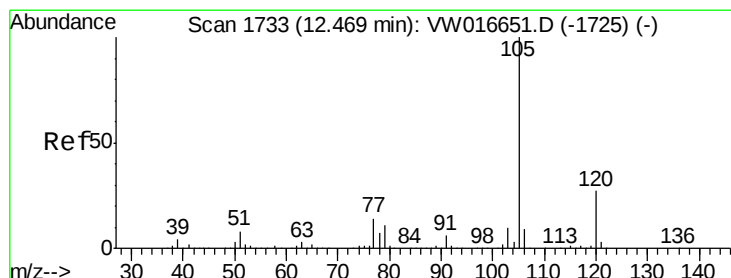
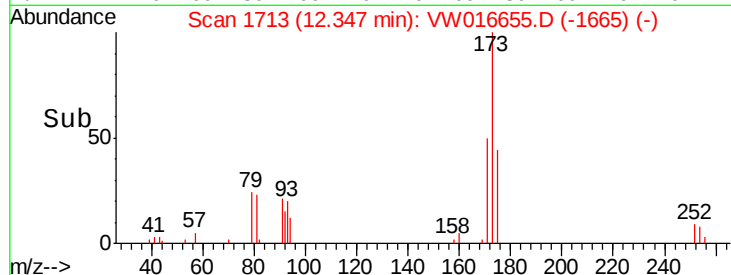
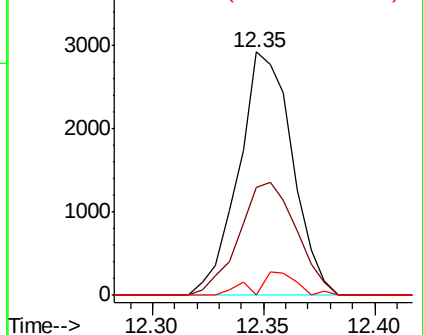
173 100

175 49.8 39.7 59.5

254 5.2 8.2 12.2#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 1.086 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

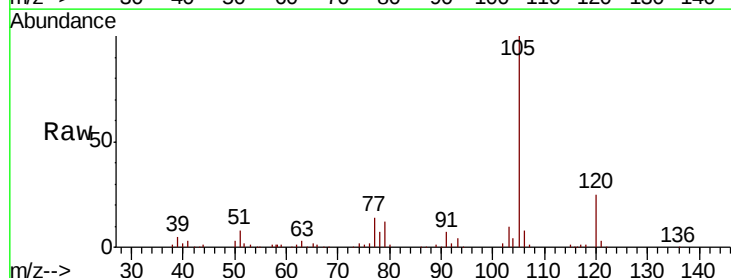
Tgt Ion:105 Resp: 44347

Ion Ratio Lower Upper

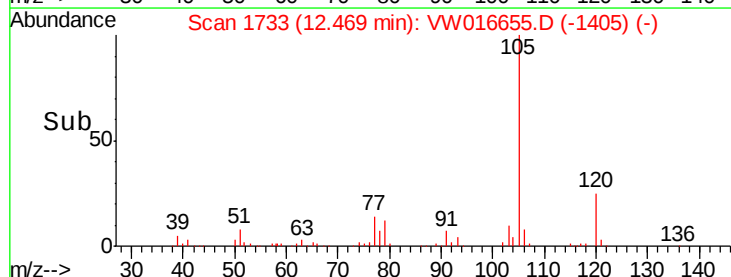
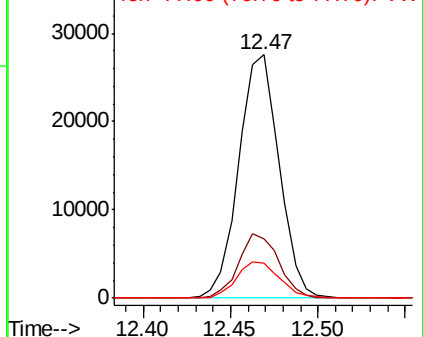
105 100

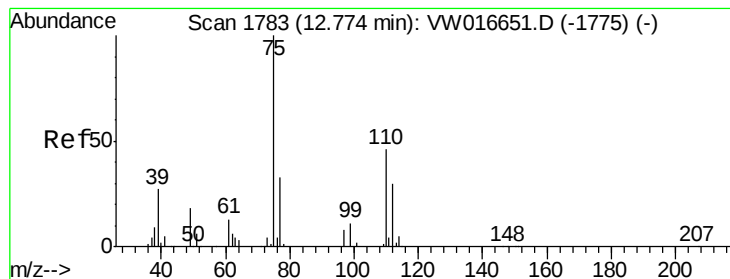
120 26.3 21.8 32.8

77 15.9 12.1 18.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V





#61

1,2,3-Trichloropropane

Concen: 1.320 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-07

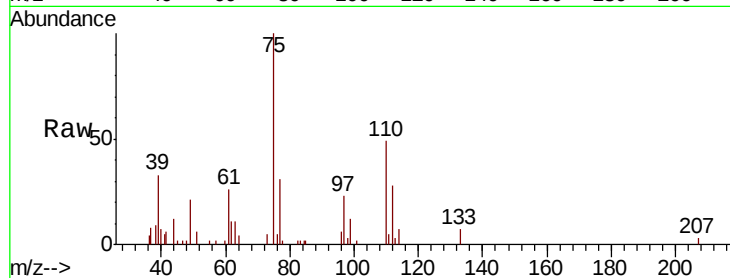
Tot Ion: 75 Resp: 6083

Ion Ratio Lower Upper

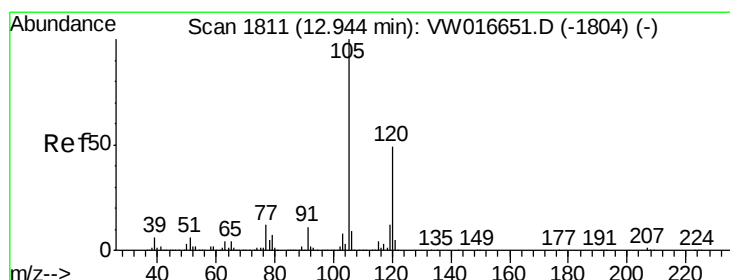
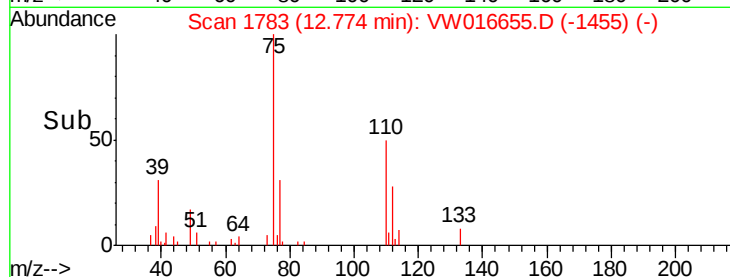
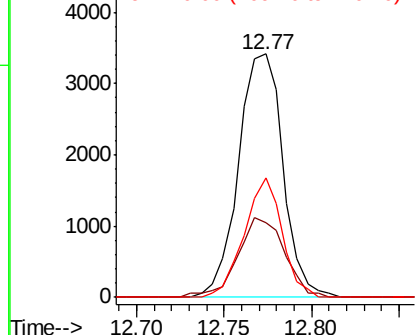
75 100

77 34.4 25.8 38.8

110 41.8 35.8 53.8



Abundance Ion 75.00 (74.70 to 75.70): VW
Ion 77.00 (76.70 to 77.70): VW
Ion 110.00 (109.70 to 110.70): V



#62

1,3,5-Trimethylbenzene

Concen: 1.035 ug/L

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW016655.D

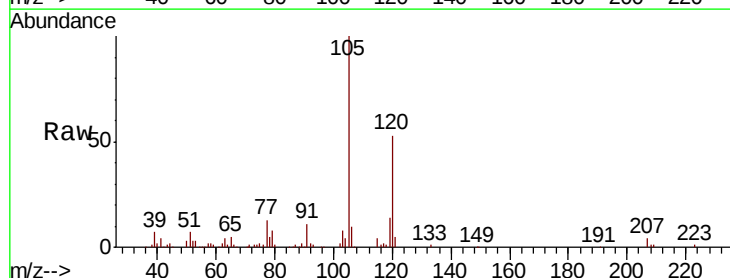
Acq: 25 Sep 2020 15:04

Tgt Ion: 105 Resp: 34801

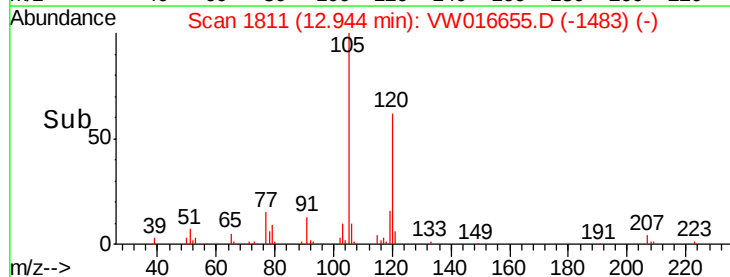
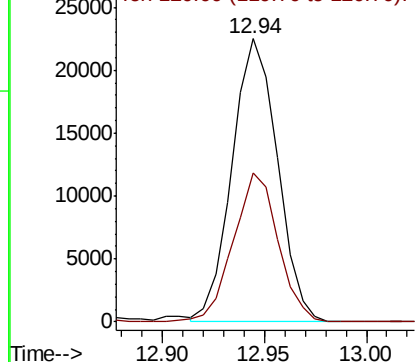
Ion Ratio Lower Upper

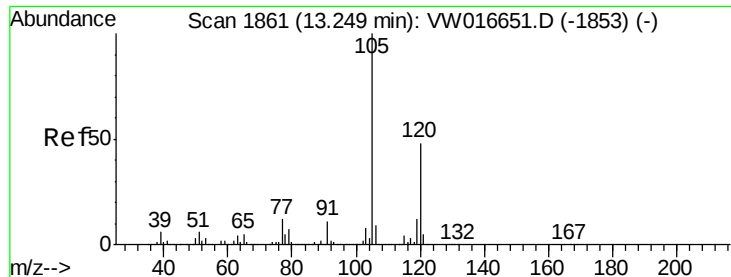
105 100

120 51.8 39.8 59.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

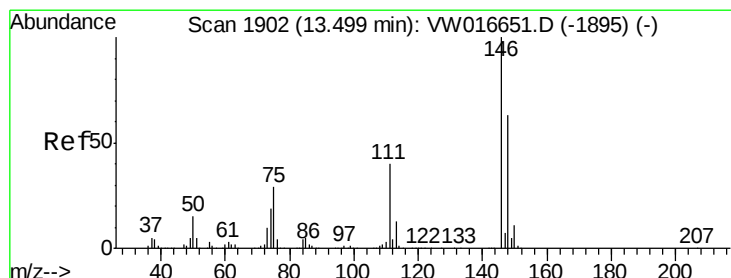
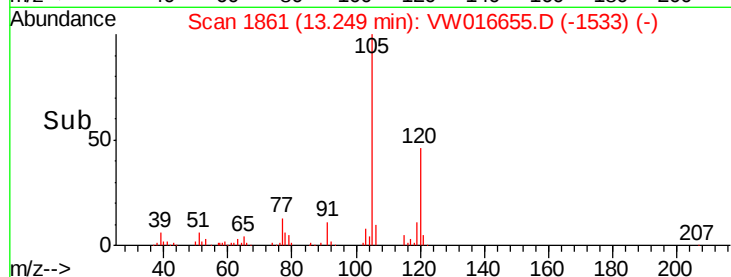
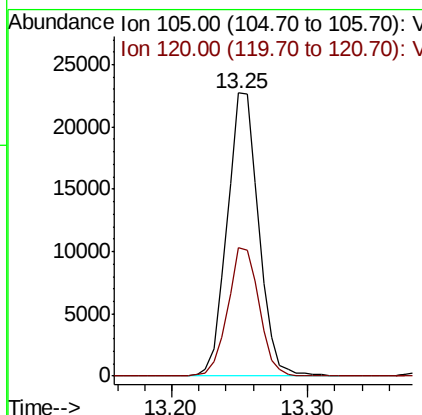
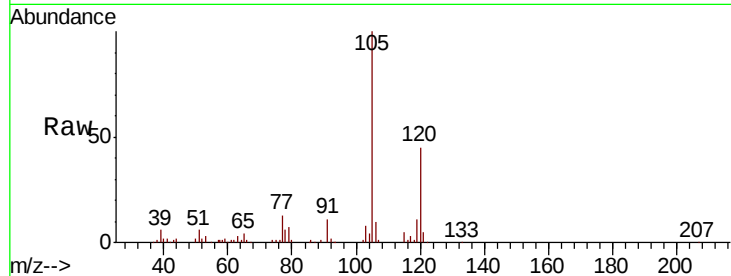




#63
 1,2,4-Trimethylbenzene
 Concen: 1.097 ug/L
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

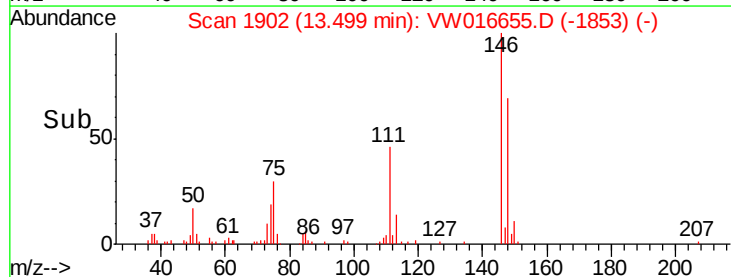
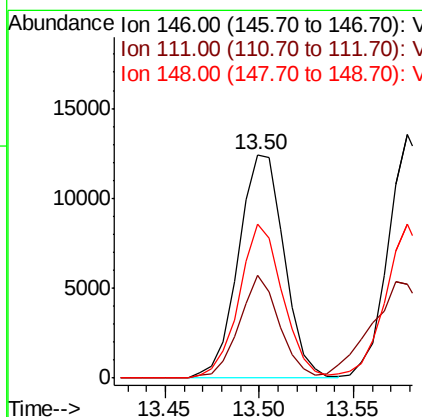
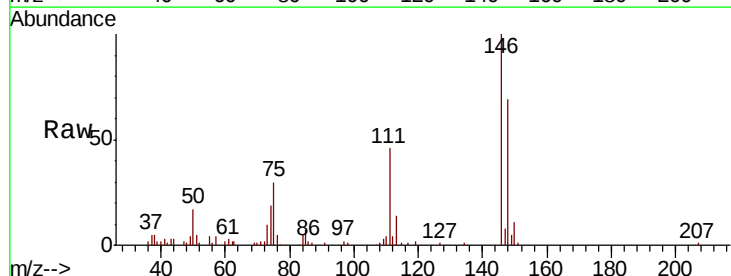
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-07

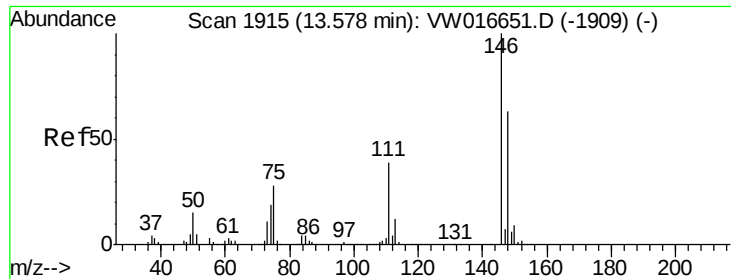
Tot Ion:105 Resp: 36629
 Ion Ratio Lower Upper
 105 100
 120 45.0 36.4 54.6



#64
 1,3-Dichlorobenzene
 Concen: 1.113 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

Tgt Ion:146 Resp: 20869
 Ion Ratio Lower Upper
 146 100
 111 45.8 26.5 49.3
 148 68.9 44.0 81.8

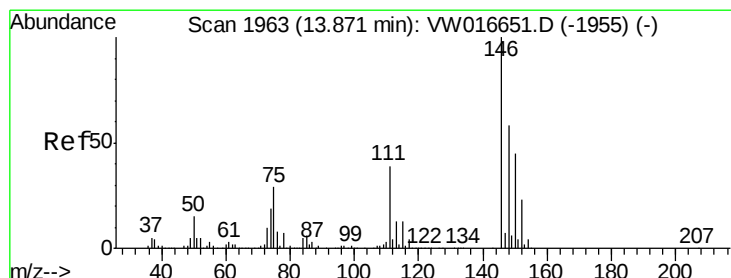
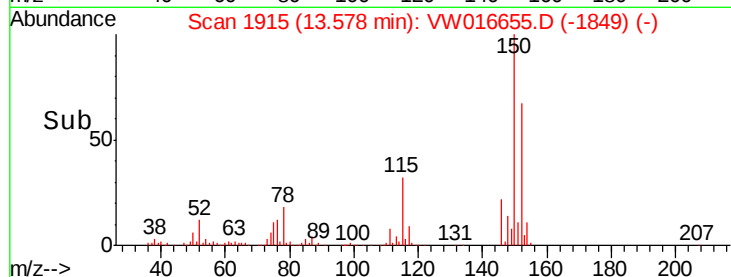
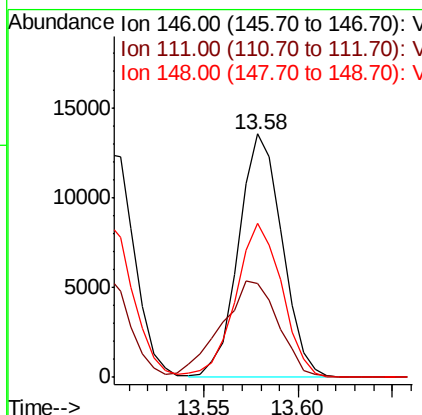
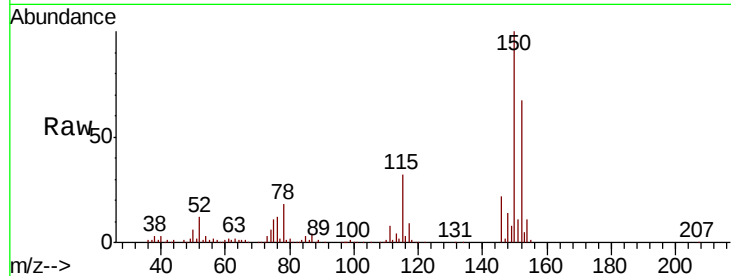




#65
1,4-Dichlorobenzene
Concen: 1.182 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. 0.00 min
Lab File: VW016655.D
Acq: 25 Sep 2020 15:04

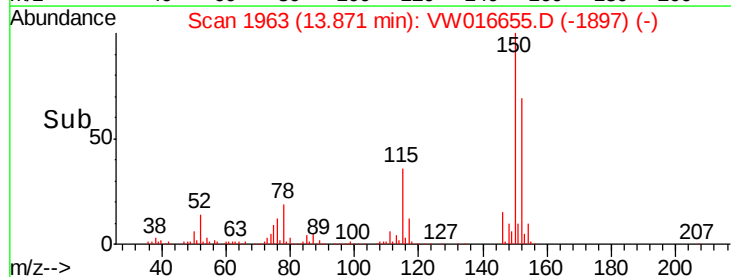
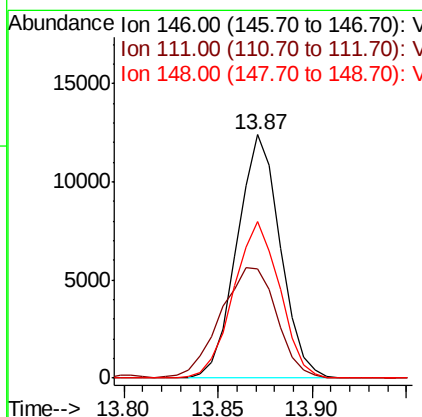
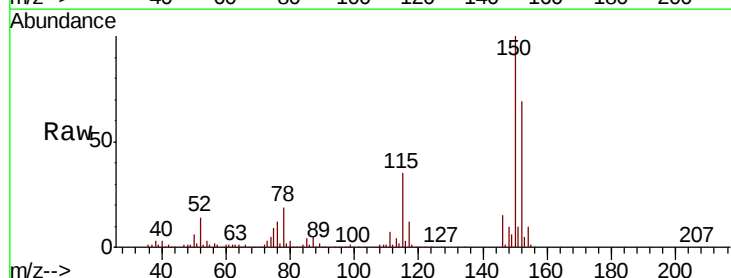
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-07

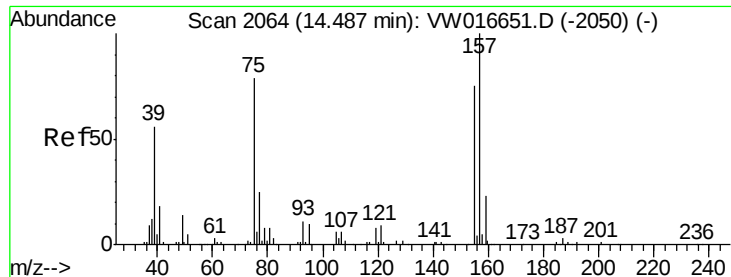
Tot Ion:146 Resp: 21729
Ion Ratio Lower Upper
146 100
111 38.4 26.5 49.3
148 63.2 43.8 81.4



#67
1,2-Dichlorobenzene
Concen: 1.193 ug/L
RT: 13.87 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VW016655.D
Acq: 25 Sep 2020 15:04

Tgt Ion:146 Resp: 19777
Ion Ratio Lower Upper
146 100
111 44.7 32.4 48.6
148 64.5 52.2 78.2





#68

1,2-Dibromo-3-chloropropane

Concen: 1.221 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Instrument :

MSVOA_W

ClientSampled :

MDL-SOIL-07

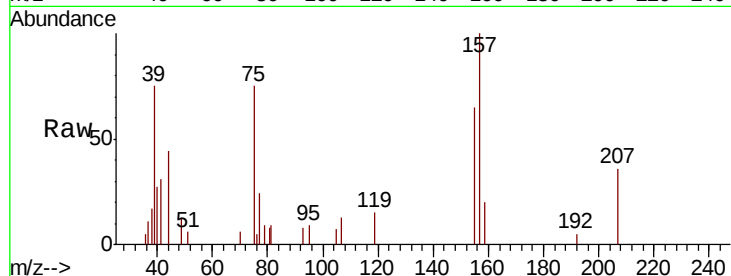
Tot Ion: 75 Resp: 1323

Ion Ratio Lower Upper

75 100

155 86.2 76.6 115.0

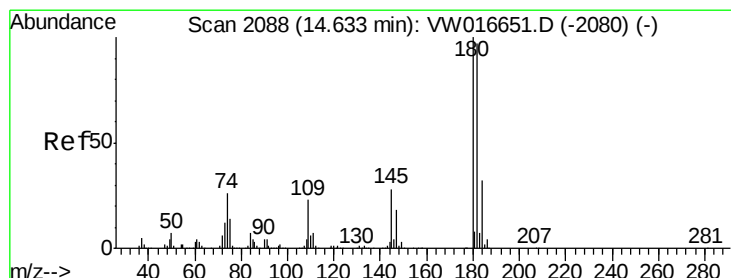
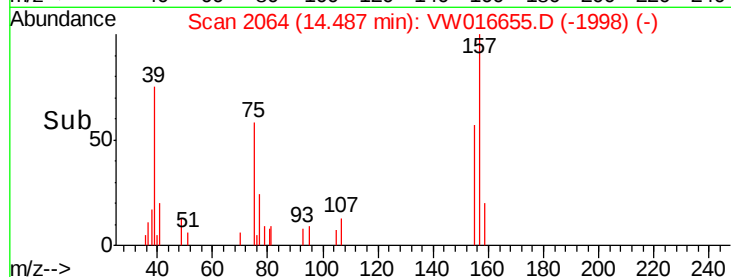
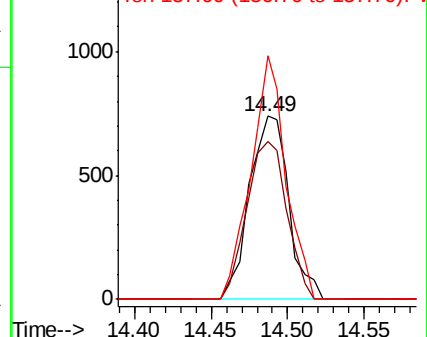
157 133.0 92.0 138.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#69

1,3,5-Trichlorobenzene

Concen: 1.094 ug/L

RT: 14.63 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VW016655.D

Acq: 25 Sep 2020 15:04

Tgt Ion:180 Resp: 15133

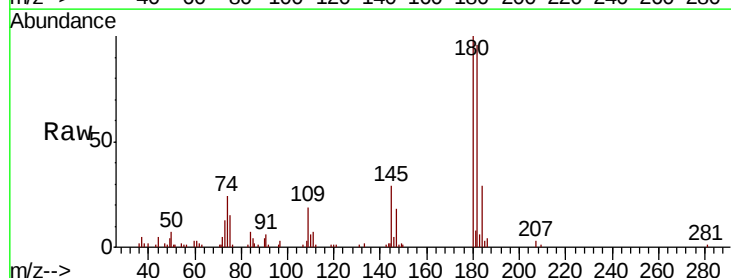
Ion Ratio Lower Upper

180 100

182 97.1 79.0 118.4

184 31.8 24.6 36.8

145 28.6 23.2 34.8

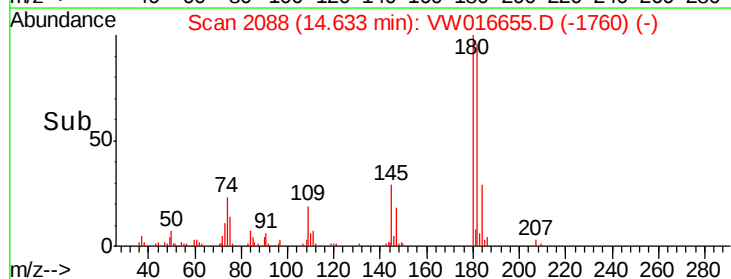
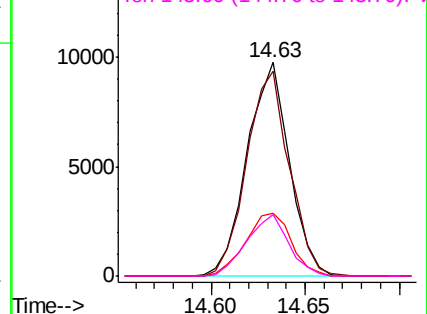


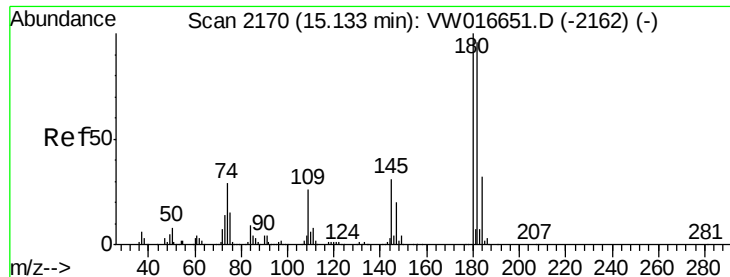
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

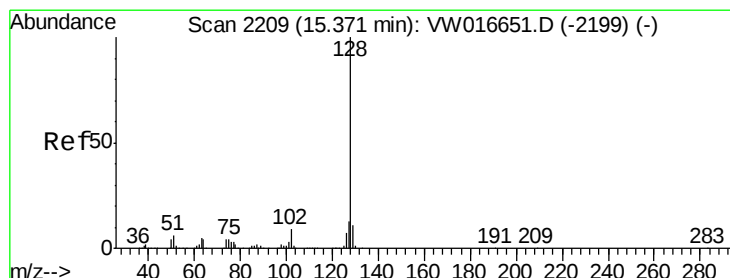
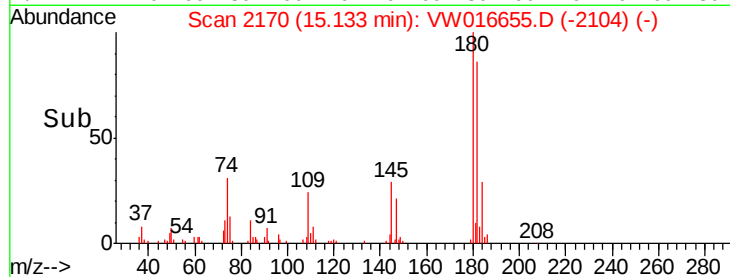
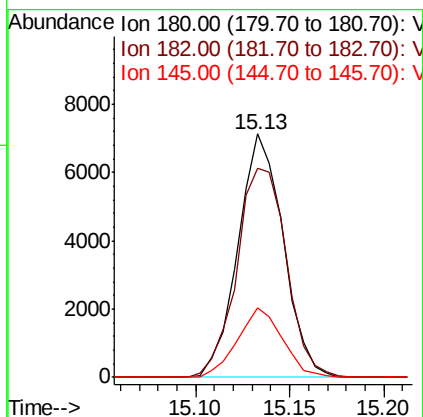
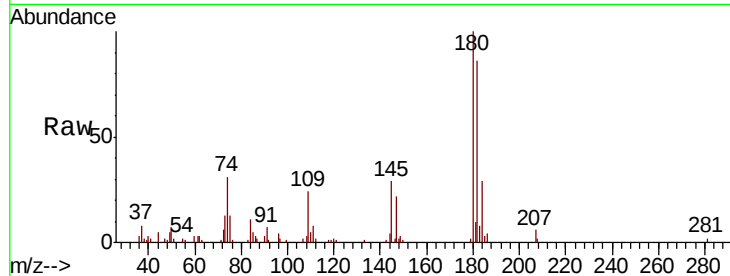




#70
 1,2,4-trichlorobenzene
 Concen: 1.062 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

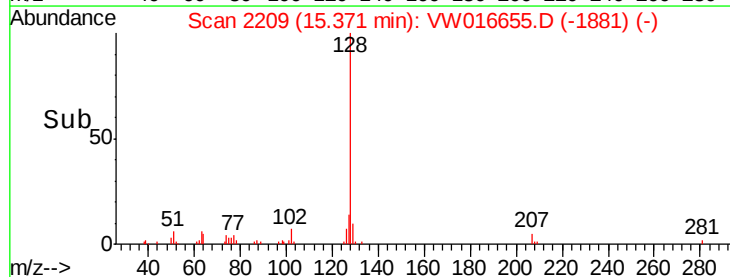
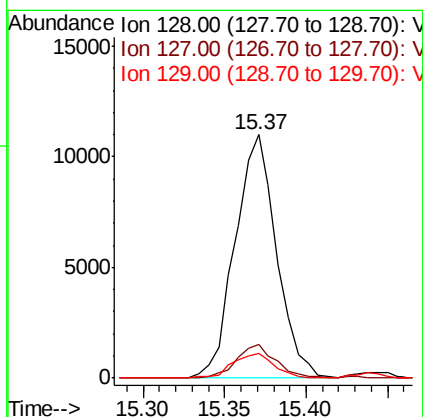
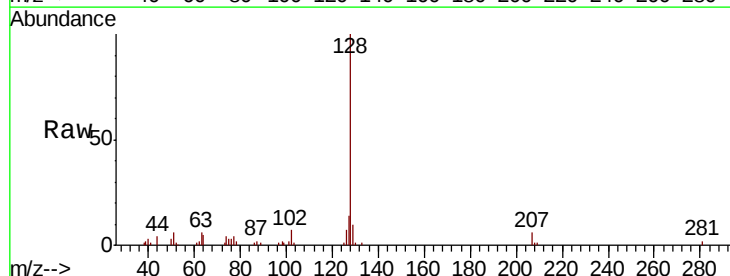
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-07

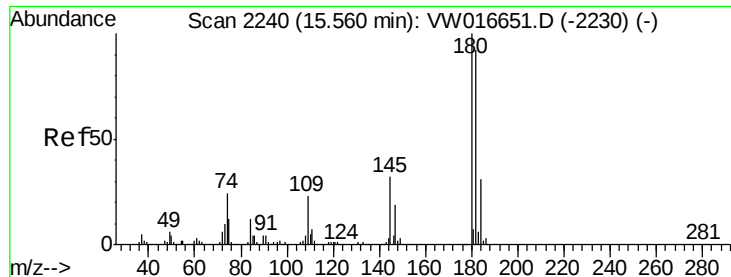
Tot Ion:180 Resp: 11863
 Ion Ratio Lower Upper
 180 100
 182 94.5 76.1 114.1
 145 28.5 24.1 36.1



#71
 Naphthalene
 Concen: 1.036 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

Tgt Ion:128 Resp: 19426
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.6 16.0
 129 10.0 9.0 13.4





#72
 1,2,3-Trichlorobenzene
 Concen: 1.117 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.00 min
 Lab File: VW016655.D
 Acq: 25 Sep 2020 15:04

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-07

Tot Ion:180	Resp:	10479
Ion	Ratio	Lower Upper
180	100	
182	95.7	75.5 113.3
145	31.0	24.3 36.5

