

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY010421\
 Data File : VY003872.D
 Acq On : 04 Jan 2021 15:34
 Operator : SY/MD
 Sample : L4485-07
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Quant Time: Jan 05 04:29:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL122920SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jan 05 04:24:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	304462	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	290552	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	160985	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	142836	27.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.92%
7) Chloroethane-d5	2.77	69	114430	28.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	112.32%
11) 1,1-Dichloroethene-d2	3.86	63	193972	21.82	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.28%
21) 2-Butanone-d5	6.89	46	108473	55.38	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	110.76%
24) Chloroform-d	7.48	84	229302	27.27	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	109.08%
26) 1,2-Dichloroethane-d4	8.15	65	151479	28.28	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	113.12%
32) Benzene-d6	8.11	84	464941	28.78	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	115.12%
36) 1,2-Dichloropropane-d6	9.12	67	137332	28.82	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	115.28%
41) Toluene-d8	10.18	98	440791	28.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	115.28%
43) trans-1,3-Dichloropropene-	10.43	79	76207	28.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	113.40%
47) 2-Hexanone-d5	10.79	63	84669	57.30	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.60%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	132157	28.21	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	112.84%
66) 1,2-Dichlorobenzene-d4	13.72	152	175002	29.75	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	119.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	5628	1.103 ug/L	91
3) Chloromethane	2.12	50	7256	1.270 ug/L	93
5) Vinyl chloride	2.25	62	6727	1.110 ug/L #	37
6) Bromomethane	2.66	94	3931	1.061 ug/L	87
8) Chloroethane	2.80	64	3886	1.062 ug/L	85
9) Trichlorofluoromethane	3.13	101	8926	1.102 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	3.92	101	4981m	1.172 ug/L	
12) 1,1-Dichloroethene	3.88	96	6033m	1.512 ug/L	
13) Acetone	3.96	43	4260m	2.915 ug/L	
14) Carbon disulfide	4.20	76	11871	0.884 ug/L #	91
15) Methyl Acetate	4.49	43	3483m	1.036 ug/L	
16) Methylene chloride	4.73	84	12289	2.517 ug/L	93
17) trans-1,2-Dichloroethene	5.23	96	4152	0.951 ug/L	81
18) Methyl tert-butyl Ether	5.22	73	12317	0.955 ug/L #	74
19) 1,1-Dichloroethane	6.04	63	7997m	1.014 ug/L	
20) cis-1,2-Dichloroethene	7.00	96	4806m	1.018 ug/L	
22) 2-Butanone	7.00	43	5856	2.586 ug/L #	69

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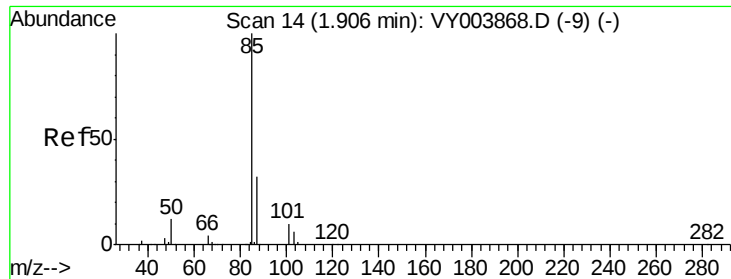
Instrument :
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Quant Time: Jan 05 04:29:11 2021
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	7.34	128	2417m	1.035	ug/L	
25) Chloroform	7.51	83	10909m	1.319	ug/L	
27) 1,2-Dichloroethane	8.24	62	7028	1.093	ug/L #	91
29) Cyclohexane	7.79	56	6735	0.885	ug/L	96
30) 1,1,1-Trichloroethane	7.71	97	7439	0.951	ug/L	90
31) Carbon tetrachloride	7.90	117	7654	1.058	ug/L	98
33) Benzene	8.17	78	18597	1.047	ug/L	100
34) Trichloroethene	8.94	95	4704	0.958	ug/L	94
35) Methylcyclohexane	9.19	83	6873	0.860	ug/L	91
37) 1,2-Dichloropropane	9.21	63	4601	1.018	ug/L #	92
38) Bromodichloromethane	9.50	83	6670	1.047	ug/L #	93
39) cis-1,3-Dichloropropene	9.93	75	7342	0.950	ug/L	97
40) 4-Methyl-2-pentanone	10.07	43	9448	1.957	ug/L	97
42) Toluene	10.24	91	19948	1.015	ug/L	96
44) trans-1,3-Dichloropropene	10.46	75	10835	1.453	ug/L	100
45) 1,1,2-Trichloroethane	10.64	97	3805	0.980	ug/L	96
46) Tetrachloroethene	10.72	164	4323	1.018	ug/L	97
48) 2-Hexanone	10.83	43	6876	1.955	ug/L	96
49) Dibromochloromethane	10.98	129	4951	1.007	ug/L	96
50) 1,2-Dibromoethane	11.09	107	4084	1.065	ug/L #	98
51) Chlorobenzene	11.51	112	12567	0.989	ug/L	98
52) Ethylbenzene	11.59	91	21105	0.959	ug/L	94
53) m,p-Xylene	11.70	106	8078	0.968	ug/L	96
54) o-Xylene	12.03	106	7751	0.954	ug/L	96
55) Styrene	12.04	104	12723	0.905	ug/L	93
57) 1,1,2,2-Tetrachloroethane	12.58	83	5759	1.253	ug/L #	94
59) Bromoform	12.21	173	3451	0.993	ug/L #	88
60) Isopropylbenzene	12.33	105	19879	0.934	ug/L	98
61) 1,2,3-Trichloropropane	12.63	75	4567	1.155	ug/L	95
62) 1,3,5-Trimethylbenzene	12.81	105	16113	0.912	ug/L	94
63) 1,2,4-Trimethylbenzene	13.12	105	16901	0.944	ug/L	100
64) 1,3-Dichlorobenzene	13.36	146	10486	1.017	ug/L	97
65) 1,4-Dichlorobenzene	13.44	146	11349	1.087	ug/L	96
67) 1,2-Dichlorobenzene	13.73	146	9924	1.028	ug/L #	90
68) 1,2-Dibromo-3-chloropropan	14.35	75	1316	1.339	ug/L #	82
69) 1,3,5-Trichlorobenzene	14.50	180	8591	1.069	ug/L	100
70) 1,2,4-trichlorobenzene	15.01	180	6930	1.017	ug/L	99
71) Naphthalene	15.23	128	13816	0.971	ug/L	96
72) 1,2,3-Trichlorobenzene	15.42	180	6383	1.060	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 1.103 ug/L

RT: 1.91 min Scan# 14

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

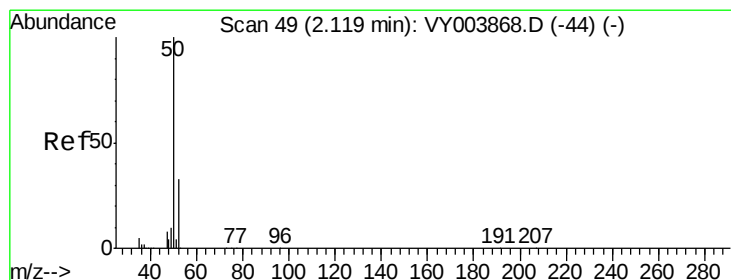
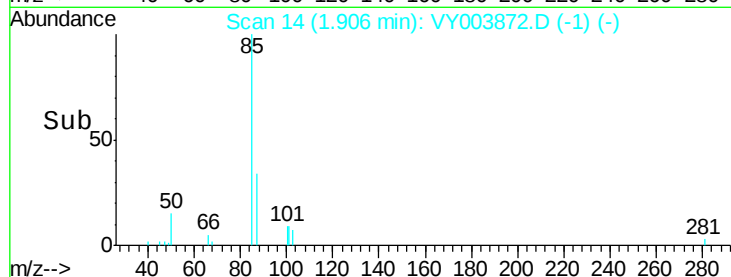
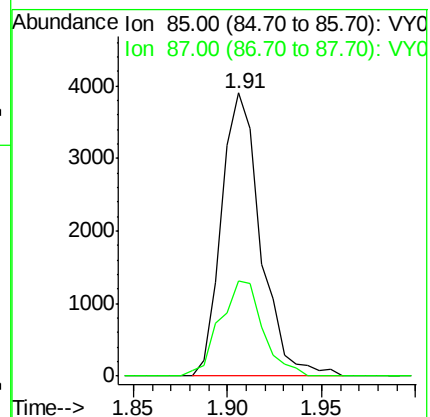
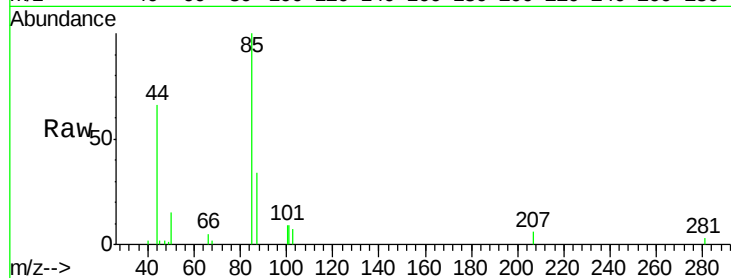
MDL-SOIL-07

Tot Ion: 85 Resp: 5628

Ion Ratio Lower Upper

85 100

87 37.0 25.4 38.2



#3

Chloromethane

Concen: 1.270 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003872.D

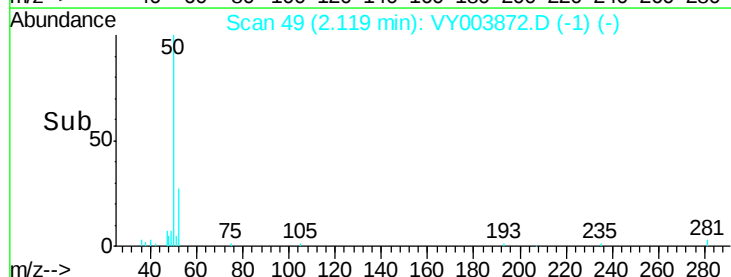
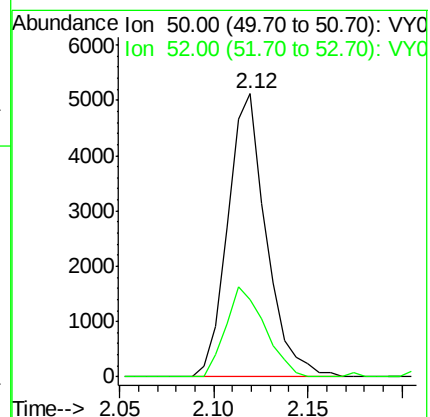
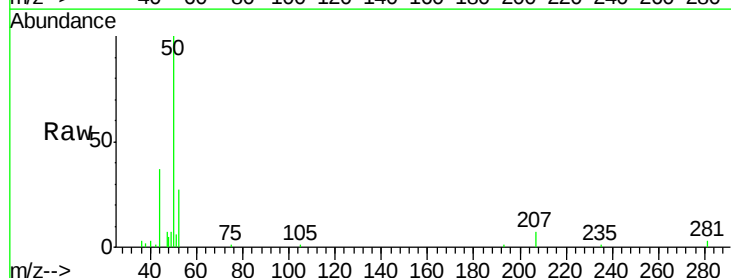
Acq: 04 Jan 2021 15:34

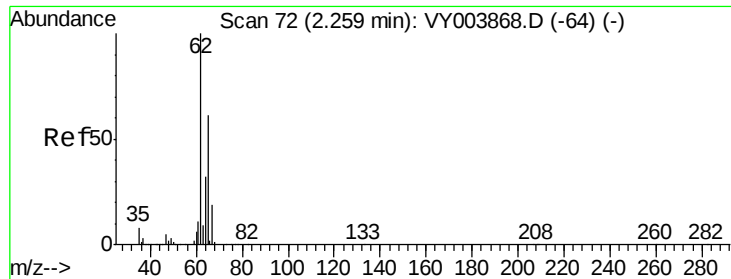
Tgt Ion: 50 Resp: 7256

Ion Ratio Lower Upper

50 100

52 27.4 22.0 41.0





#5

Vinyl chloride

Concen: 1.110 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

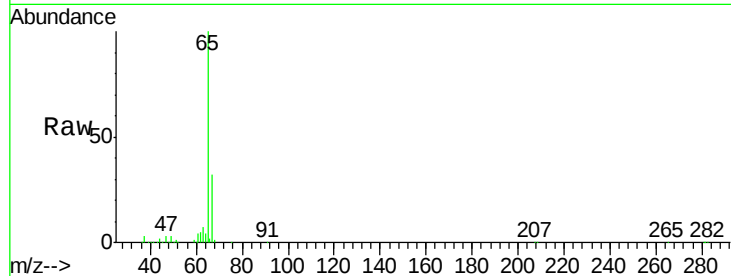
MDL-SOIL-07

Tot Ion: 62 Resp: 6727

Ion Ratio Lower Upper

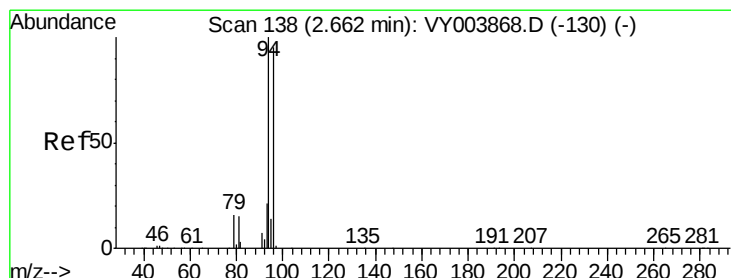
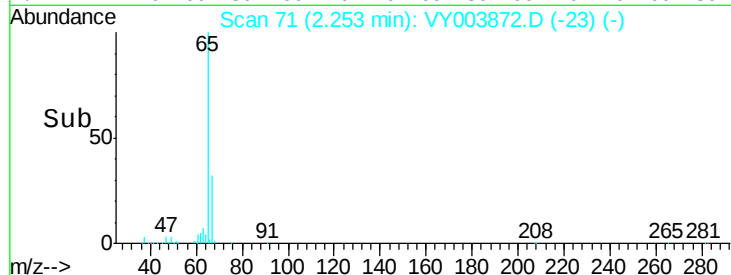
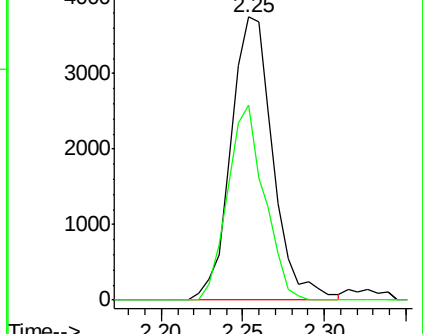
62 100

64 68.7 23.2 43.2#



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 64.00 (63.70 to 64.70): VY0



#6

Bromomethane

Concen: 1.061 ug/L

RT: 2.66 min Scan# 137

Delta R.T. -0.01 min

Lab File: VY003872.D

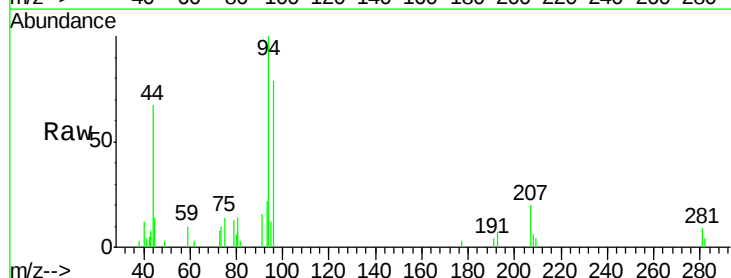
Acq: 04 Jan 2021 15:34

Tgt Ion: 94 Resp: 3931

Ion Ratio Lower Upper

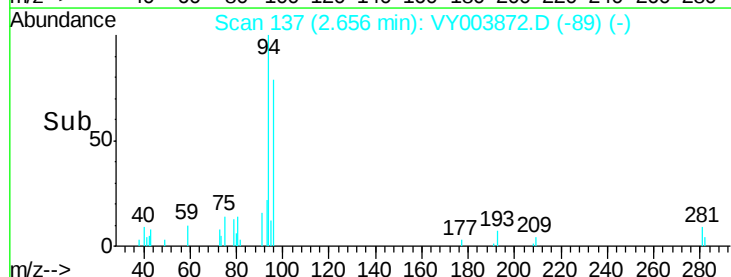
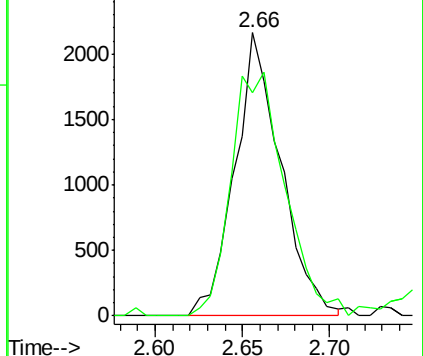
94 100

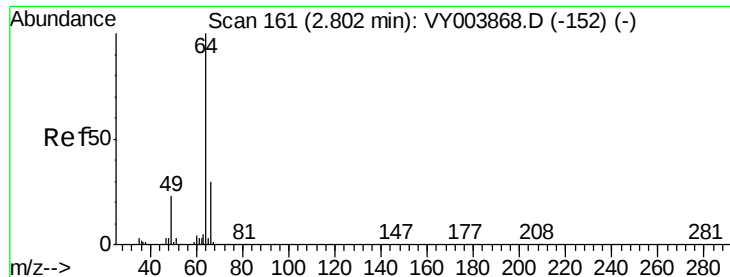
96 79.0 64.3 119.3



Abundance Ion 94.00 (93.70 to 94.70): VY0

Ion 96.00 (95.70 to 96.70): VY0





#8

Chloroethane

Concen: 1.062 ug/L

RT: 2.80 min Scan# 161

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

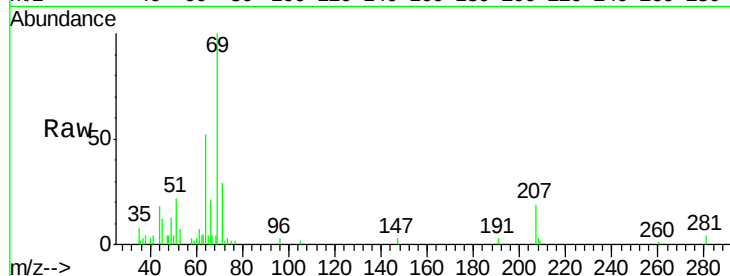
MDL-SOIL-07

Tot Ion: 64 Resp: 3886

Ion Ratio Lower Upper

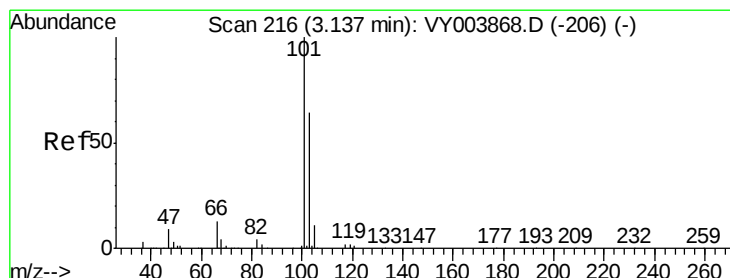
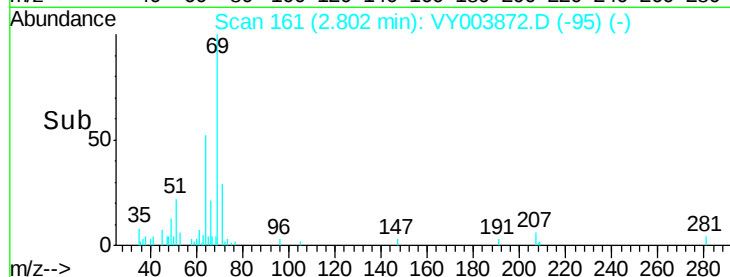
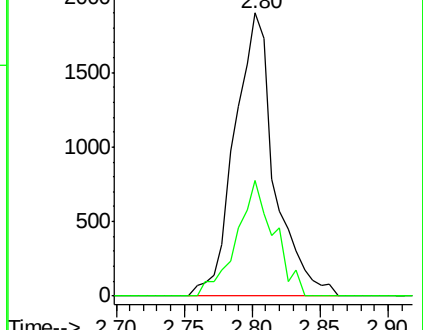
64 100

66 40.7 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VY003868.D (-152) (-)

Ion 66.00 (65.70 to 66.70): VY003868.D (-152) (-)



#9

Trichlorofluoromethane

Concen: 1.102 ug/L

RT: 3.13 min Scan# 215

Delta R.T. -0.01 min

Lab File: VY003872.D

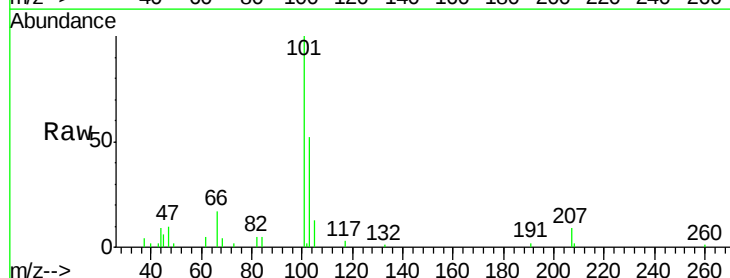
Acq: 04 Jan 2021 15:34

Tgt Ion: 101 Resp: 8926

Ion Ratio Lower Upper

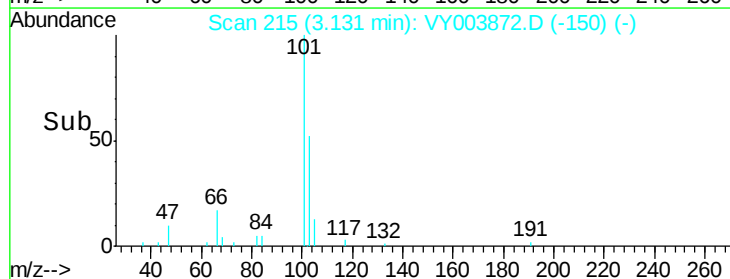
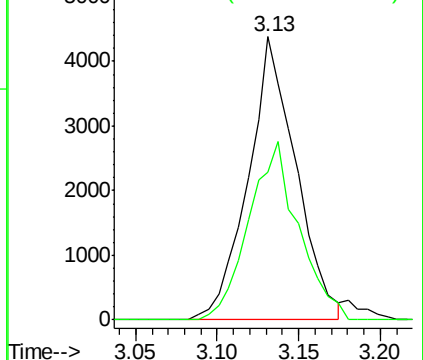
101 100

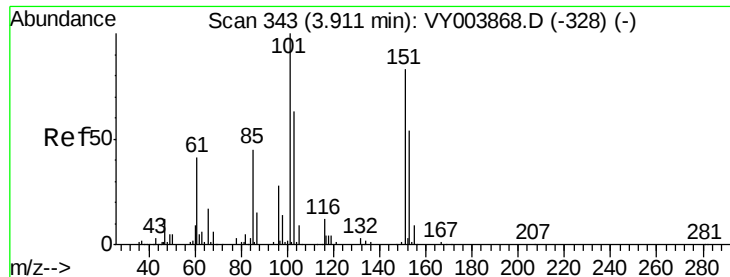
103 65.3 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VY003868.D (-206) (-)

Ion 103.00 (102.70 to 103.70): VY003868.D (-206) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 1.172 ug/L m

RT: 3.92 min Scan# 344

Delta R.T. 0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

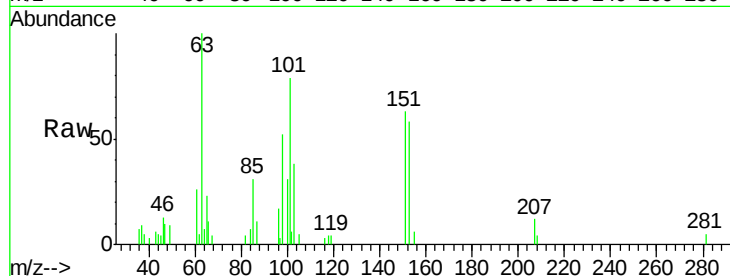
Tot Ion:101 Resp: 4981

Ion Ratio Lower Upper

101 100

85 41.0 37.1 55.7

151 34.3 66.4 99.6#



Abundance Ion 101.00 (100.70 to 101.70): VY003872.D (-294) (-)

Ion 85.00 (84.70 to 85.70): VY003872.D (-294) (-)

Ion 151.00 (150.70 to 151.70): VY003872.D (-294) (-)

Time-->

3.85 3.90 3.95 4.00

3.92

1500

1000

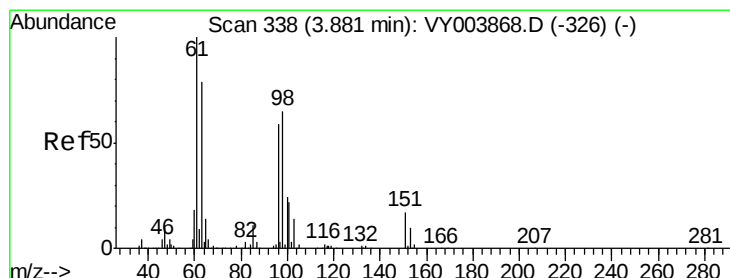
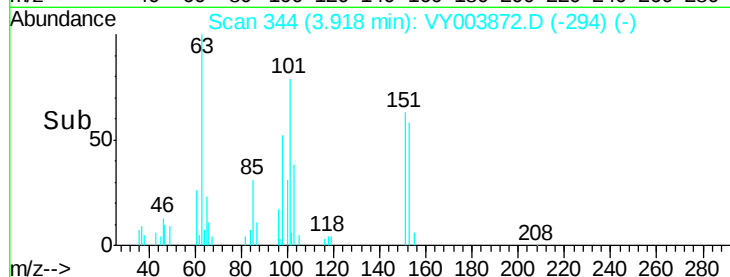
500

0

3.85 3.90 3.95 4.00

Time-->

3.85 3.90 3.95 4.00



#12

1,1-Dichloroethene

Concen: 1.512 ug/L m

RT: 3.88 min Scan# 337

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

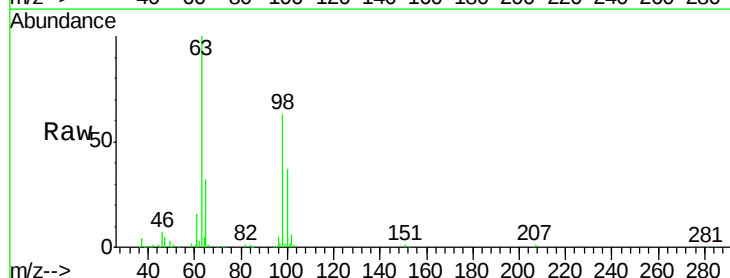
Tgt Ion: 96 Resp: 6033

Ion Ratio Lower Upper

96 100

61 303.0 123.8 230.0#

63 1928.8 85.3 158.3#



Abundance Ion 96.00 (95.70 to 96.70): VY003872.D (-289) (-)

Ion 61.00 (60.70 to 61.70): VY003872.D (-289) (-)

Ion 63.00 (62.70 to 63.70): VY003872.D (-289) (-)

Time-->

3.80 3.85 3.90 4.00

3.88

80000

60000

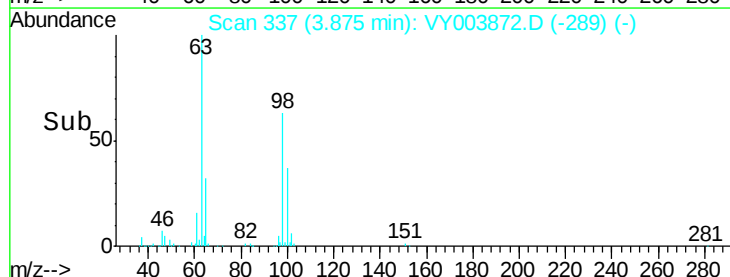
40000

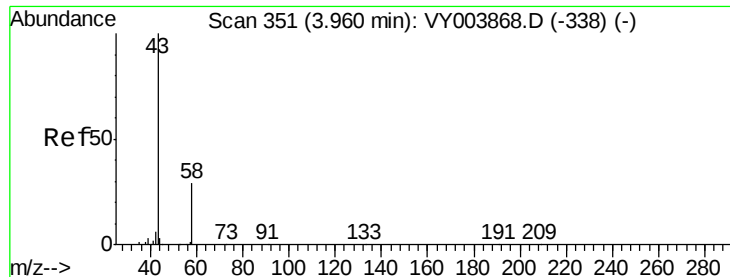
20000

0

3.80 3.85 3.90 4.00

Time-->





#13

Acetone

Concen: 2.915 ug/L m

RT: 3.96 min Scan# 351

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

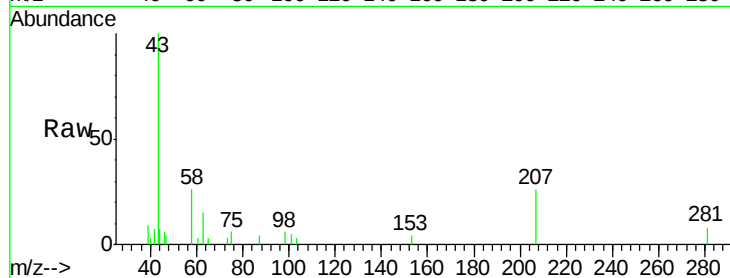
MDL-SOIL-07

Tot Ion: 43 Resp: 4260

Ion Ratio Lower Upper

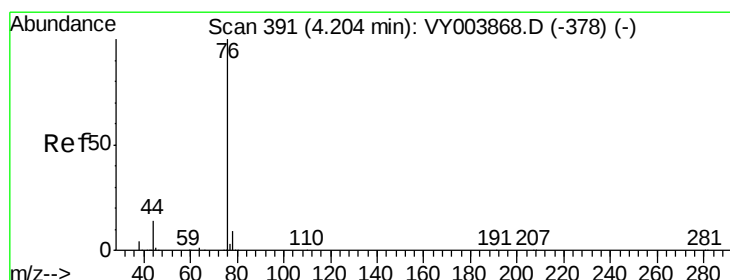
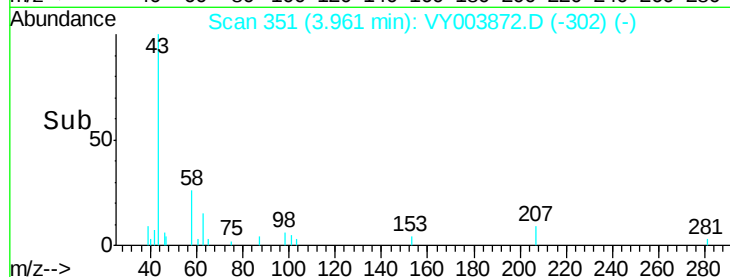
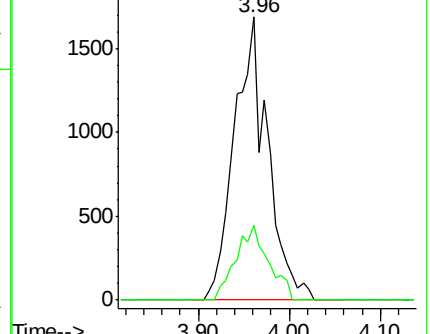
43 100

58 23.8 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 0.884 ug/L

RT: 4.20 min Scan# 390

Delta R.T. -0.01 min

Lab File: VY003872.D

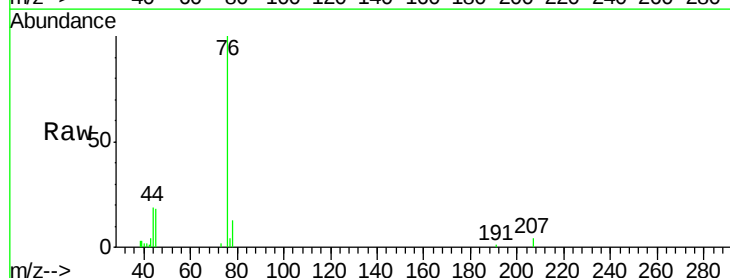
Acq: 04 Jan 2021 15:34

Tgt Ion: 76 Resp: 11871

Ion Ratio Lower Upper

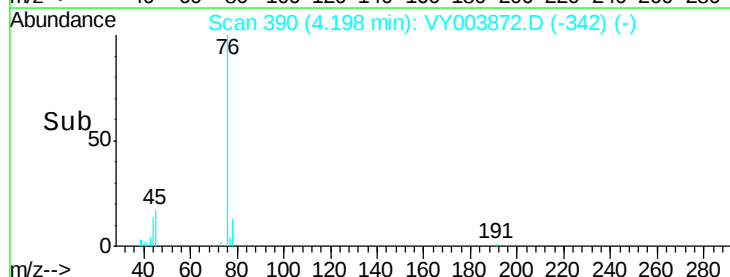
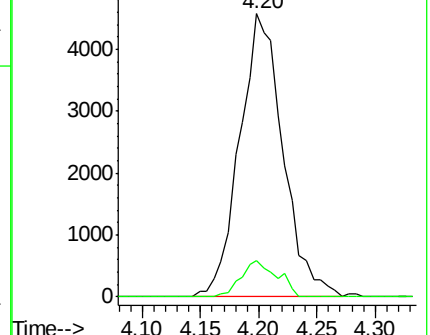
76 100

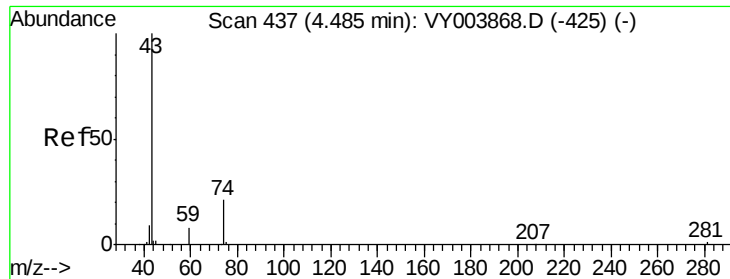
78 12.6 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0

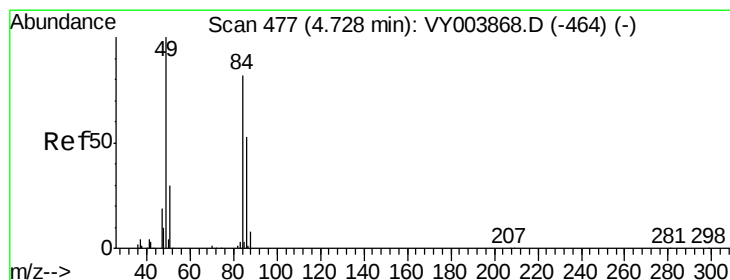
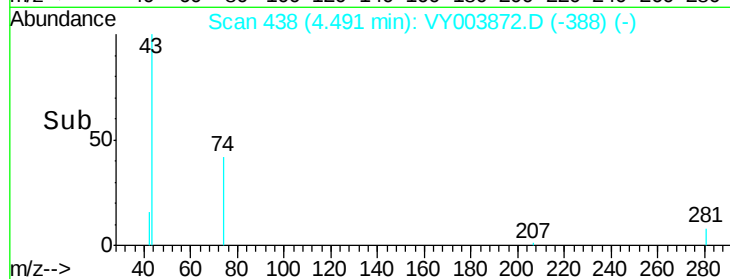
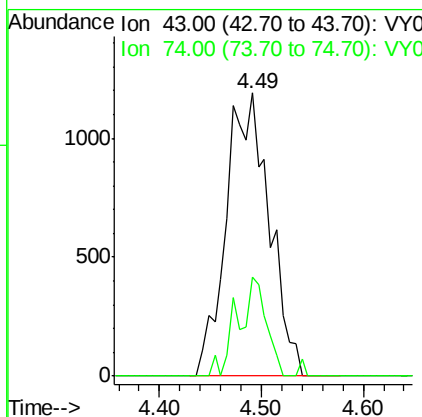
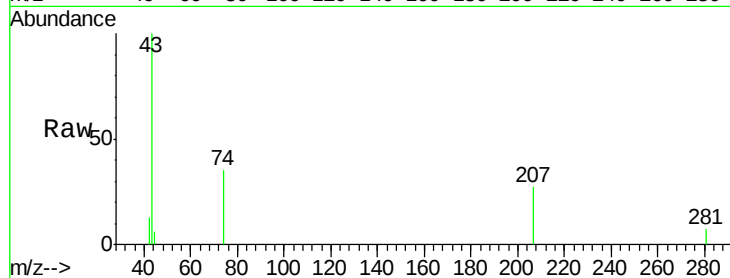




#15
Methyl Acetate
Concen: 1.036 ug/L m
RT: 4.49 min Scan# 438
Delta R.T. 0.01 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

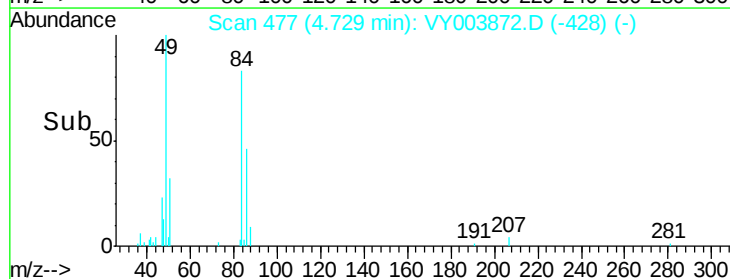
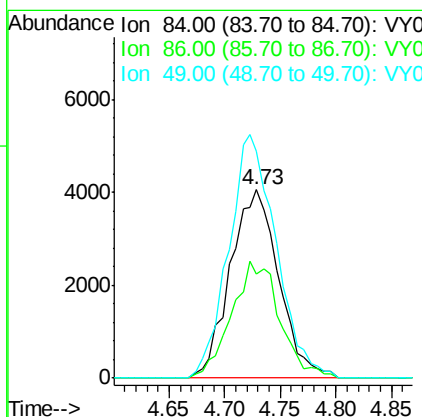
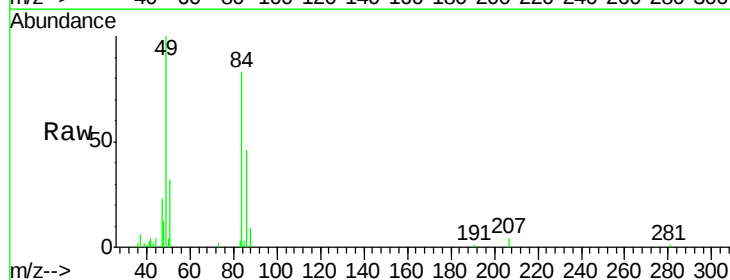
Instrument :
MSVOA_Y
ClientSampled :
MDL-SOIL-07

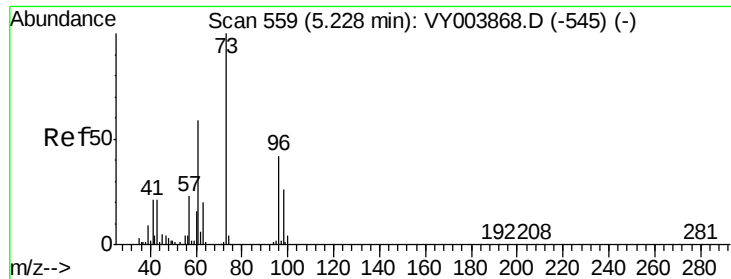
Tot Ion: 43 Resp: 3483
Ion Ratio Lower Upper
43 100
74 16.0 17.4 26.2#



#16
Methylene chloride
Concen: 2.517 ug/L
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

Tgt Ion: 84 Resp: 12289
Ion Ratio Lower Upper
84 100
86 55.3 42.1 78.3
49 120.5 90.3 167.7

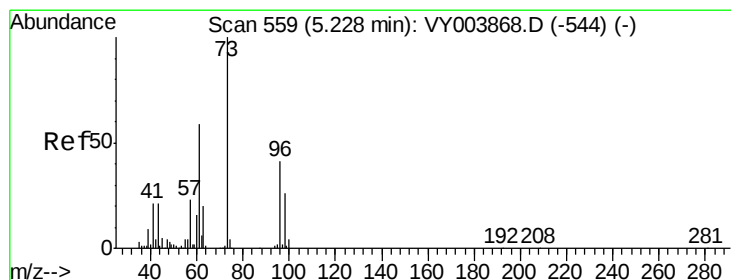
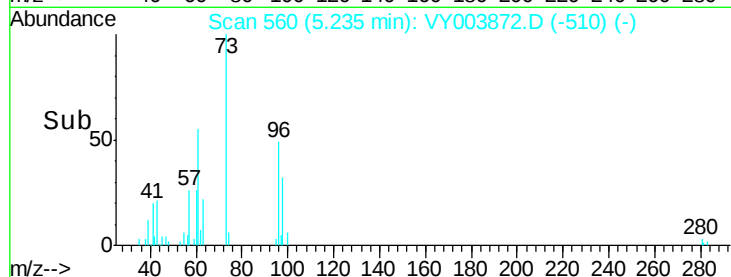
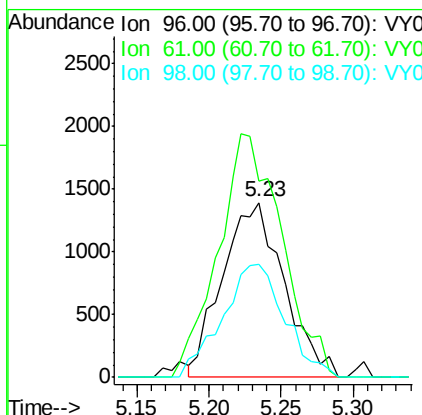
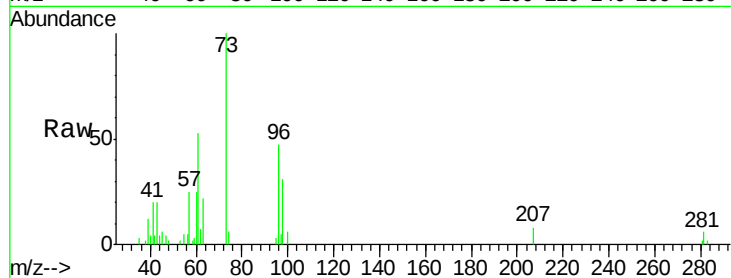




#17
trans-1,2-Dichloroethene
Concen: 0.951 ug/L
RT: 5.23 min Scan# 560
Delta R.T. 0.01 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

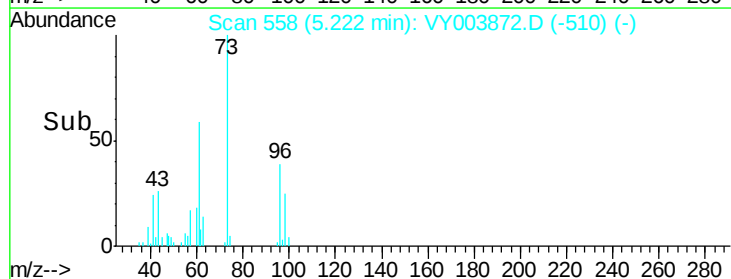
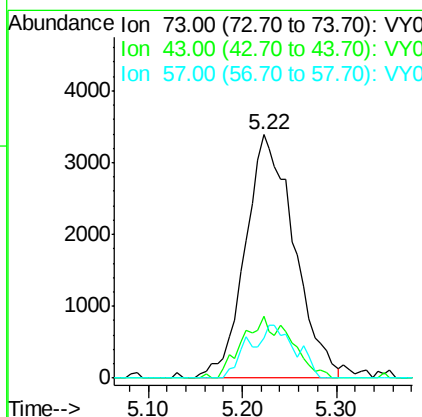
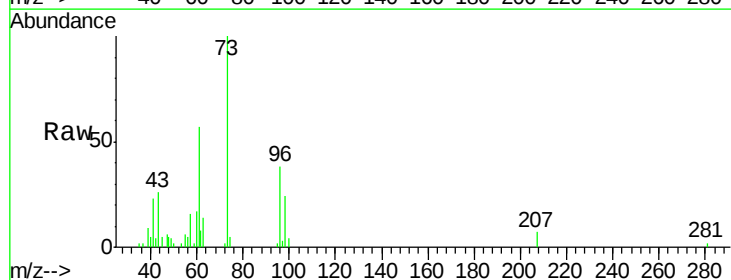
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

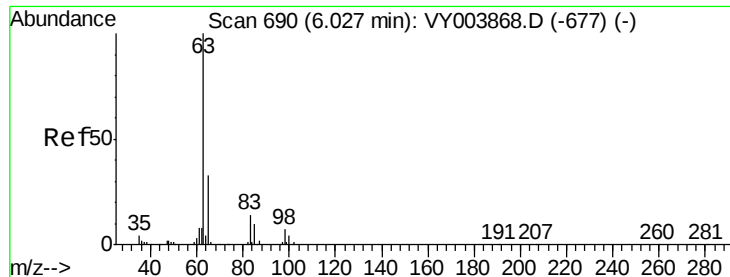
Tot Ion: 96 Resp: 4152
Ion Ratio Lower Upper
96 100
61 112.4 101.7 188.9
98 65.0 44.3 82.3



#18
Methyl tert-butyl Ether
Concen: 0.955 ug/L
RT: 5.22 min Scan# 558
Delta R.T. -0.01 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

Tgt Ion: 73 Resp: 12317
Ion Ratio Lower Upper
73 100
43 8.2 18.4 27.6#
57 11.8 17.6 26.4#





#19

1,1-Dichloroethane

Concen: 1.014 ug/L m

RT: 6.04 min Scan# 692

Delta R.T. 0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

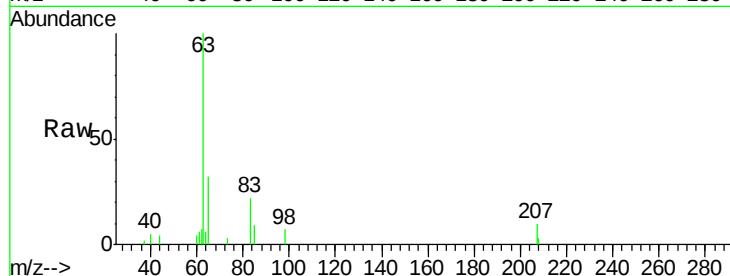
Tot Ion: 63 Resp: 7997

Ion Ratio Lower Upper

63 100

65 32.4 21.9 40.7

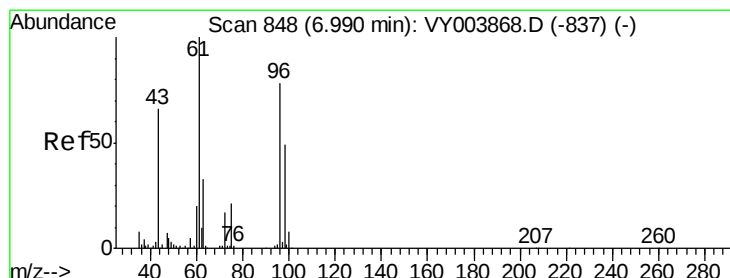
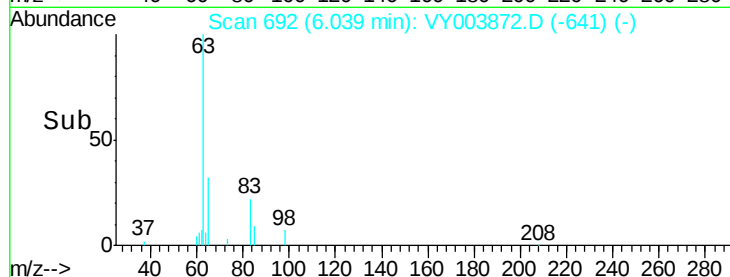
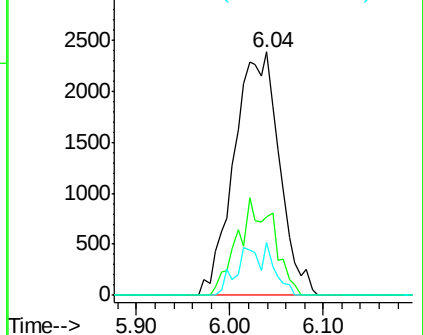
83 21.5 8.7 16.1#



Abundance Ion 63.00 (62.70 to 63.70): VY0

Ion 65.00 (64.70 to 65.70): VY0

Ion 83.00 (82.70 to 83.70): VY0



#20

cis-1,2-Dichloroethene

Concen: 1.018 ug/L m

RT: 7.00 min Scan# 849

Delta R.T. 0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

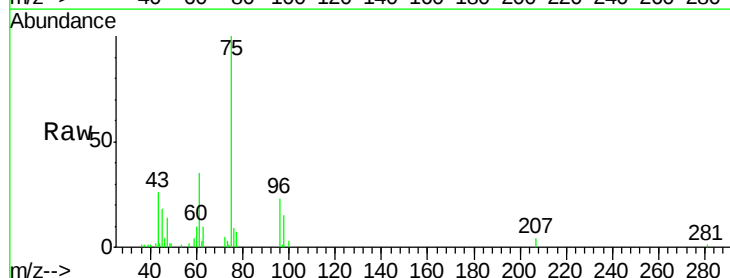
Tgt Ion: 96 Resp: 4806

Ion Ratio Lower Upper

96 100

61 153.8 90.6 168.3

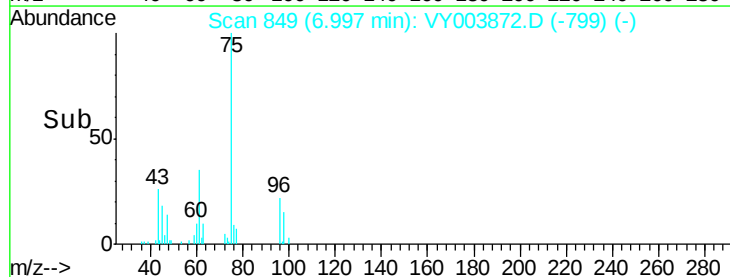
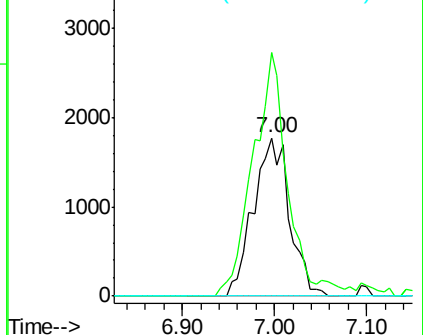
68 0.0 0.0 0.0

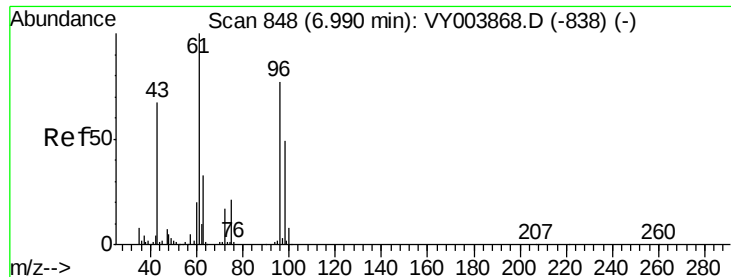


Abundance Ion 96.00 (95.70 to 96.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 68.00 (67.70 to 68.70): VY0





#22

2-Butanone

Concen: 2.586 ug/L

RT: 7.00 min Scan# 849

Delta R.T. 0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

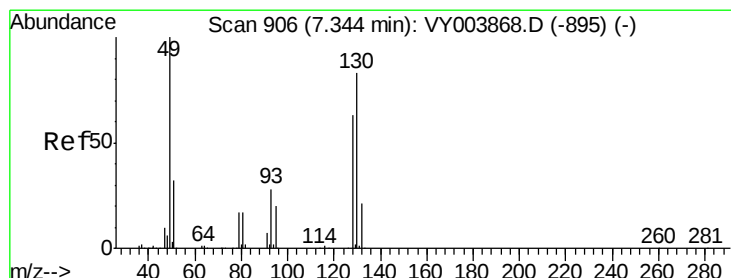
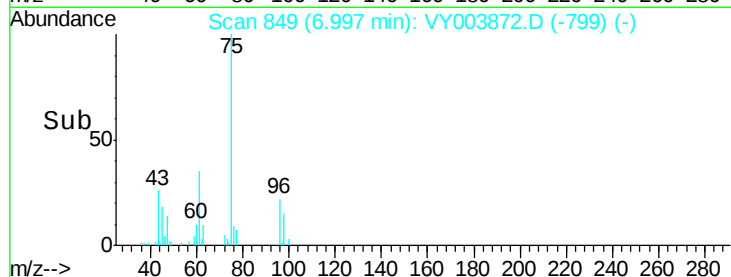
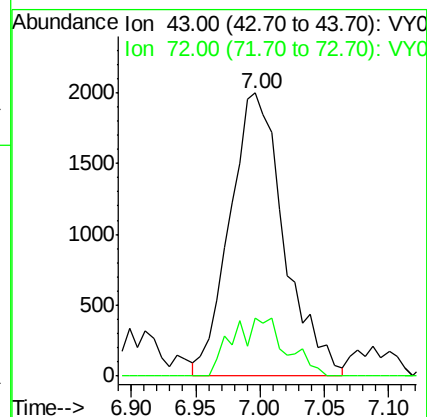
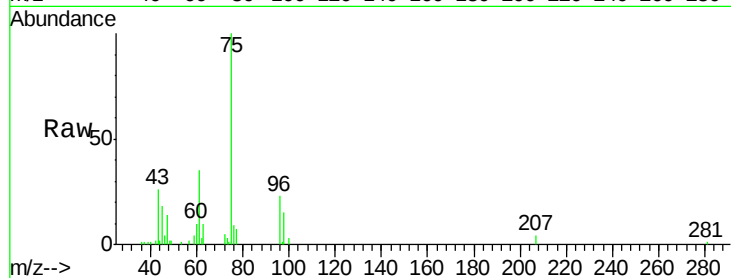
MDL-SOIL-07

Tot Ion: 43 Resp: 5856

Ion Ratio Lower Upper

43 100

72 9.6 12.6 37.8#



#23

Bromochloromethane

Concen: 1.035 ug/L m

RT: 7.34 min Scan# 905

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Tgt Ion: 128 Resp: 2417

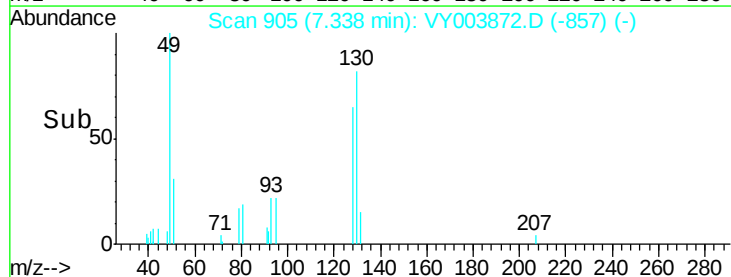
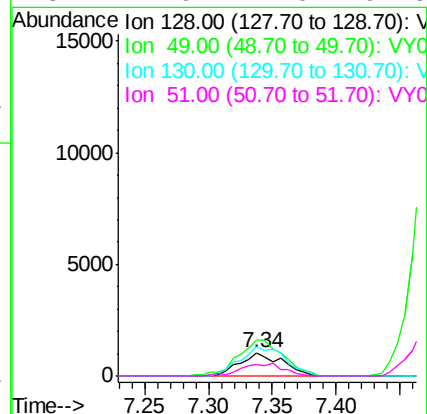
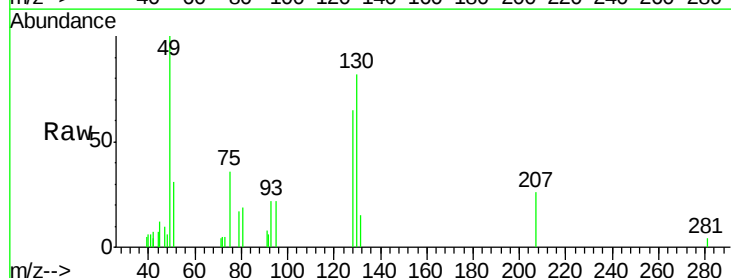
Ion Ratio Lower Upper

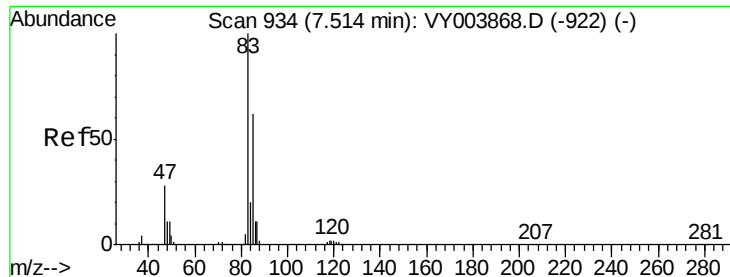
128 100

49 154.5 114.4 212.4

130 127.1 88.8 164.8

51 47.9 41.0 61.6





#25

Chloroform

Concen: 1.319 ug/L

RT: 7.51 min Scan# 934

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampled :

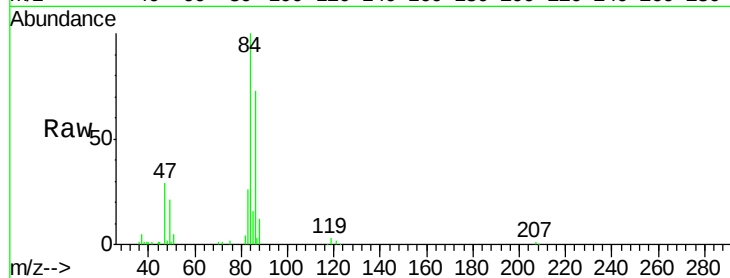
MDL-SOIL-07

Tot Ion: 83 Resp: 10909

Ion Ratio Lower Upper

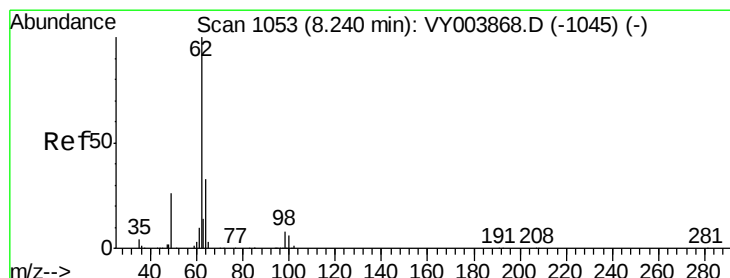
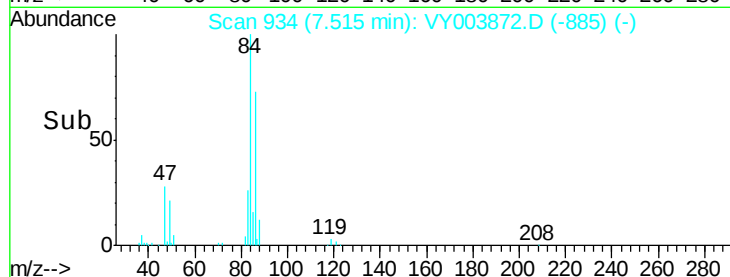
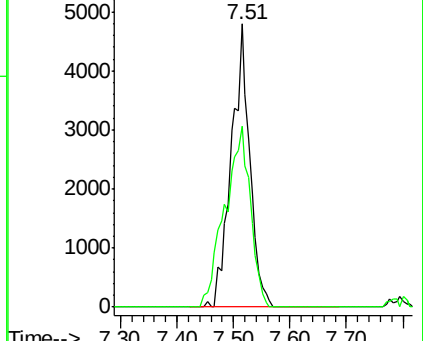
83 100

85 64.0 44.2 82.2



Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0



#27

1,2-Dichloroethane

Concen: 1.093 ug/L

RT: 8.24 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VY003872.D

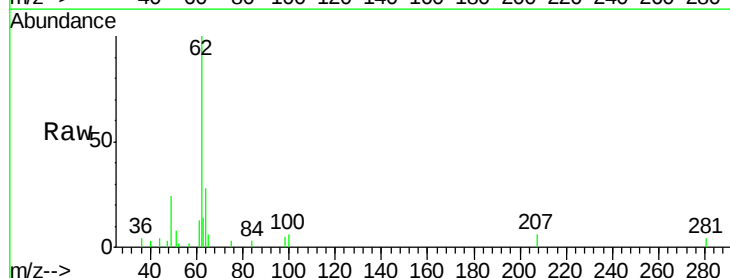
Acq: 04 Jan 2021 15:34

Tgt Ion: 62 Resp: 7028

Ion Ratio Lower Upper

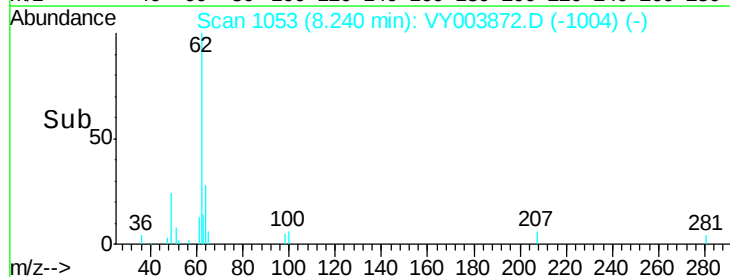
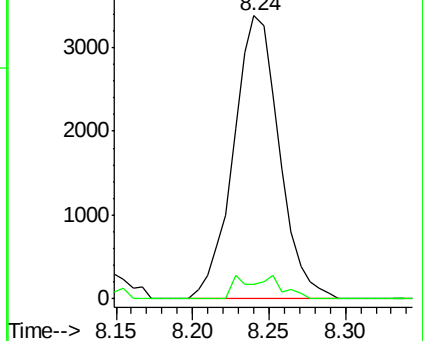
62 100

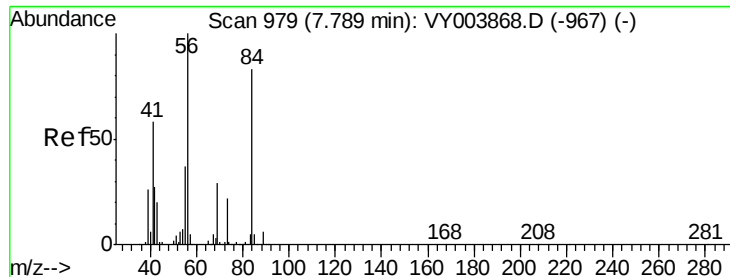
98 5.1 6.8 10.2#



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

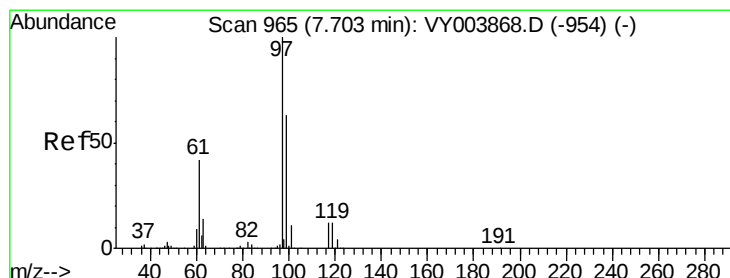
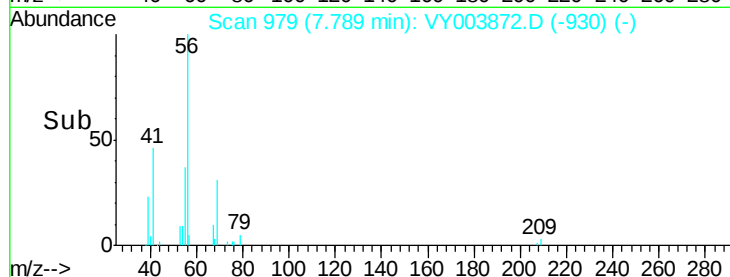
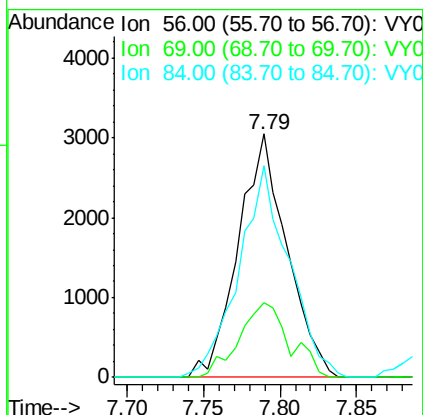
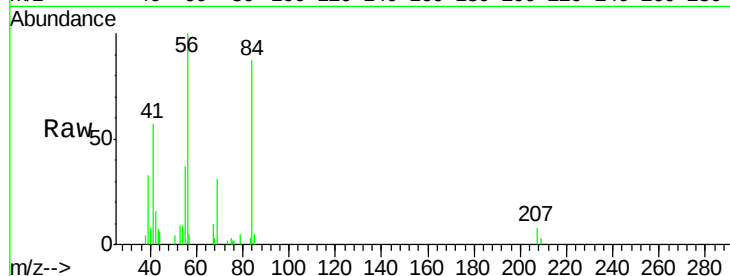




#29
Cyclohexane
Concen: 0.885 ug/L
RT: 7.79 min Scan# 979
Delta R.T. 0.00 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

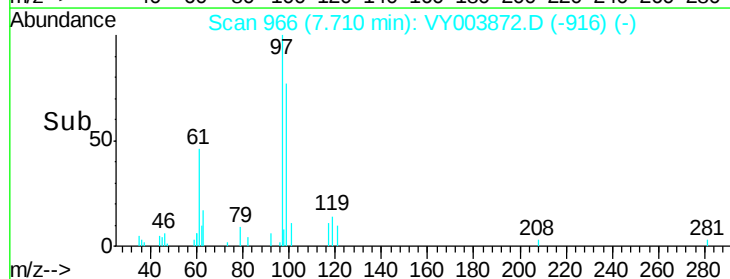
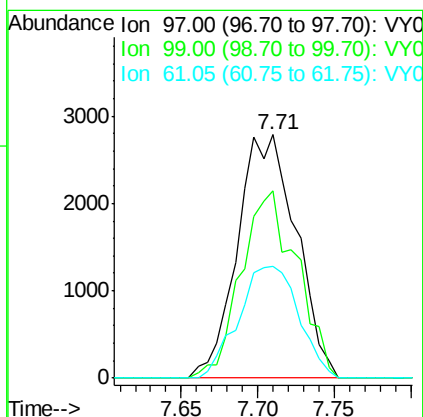
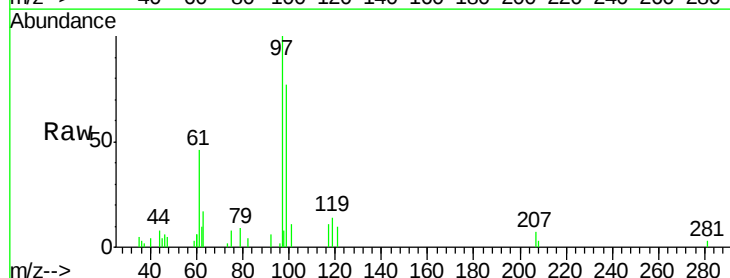
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

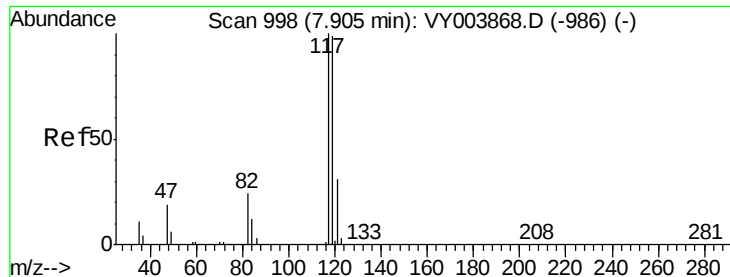
Tot Ion: 56 Resp: 6735
Ion Ratio Lower Upper
56 100
69 27.5 24.2 36.2
84 89.5 68.7 103.1



#30
1,1,1-Trichloroethane
Concen: 0.951 ug/L
RT: 7.71 min Scan# 966
Delta R.T. 0.01 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

Tgt Ion: 97 Resp: 7439
Ion Ratio Lower Upper
97 100
99 52.4 50.5 75.7
61 47.0 35.5 53.3





#31

Carbon tetrachloride

Concen: 1.058 ug/L

RT: 7.90 min Scan# 998

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

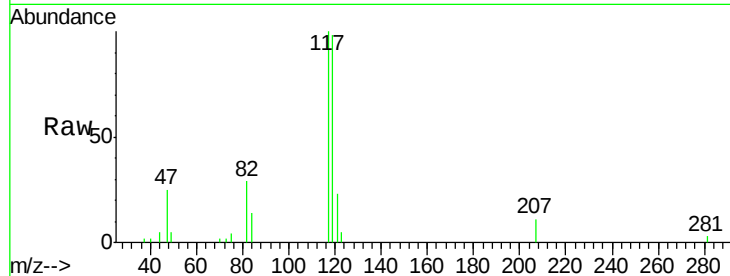
MDL-SOIL-07

Tot Ion:117 Resp: 7654

Ion Ratio Lower Upper

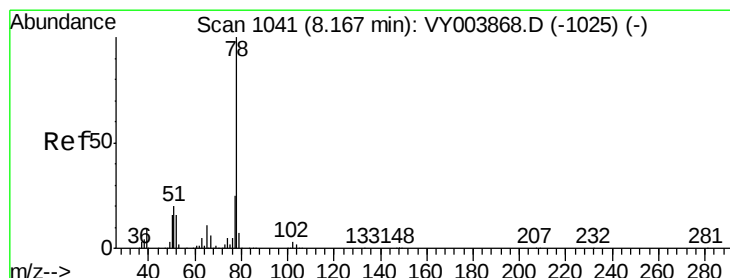
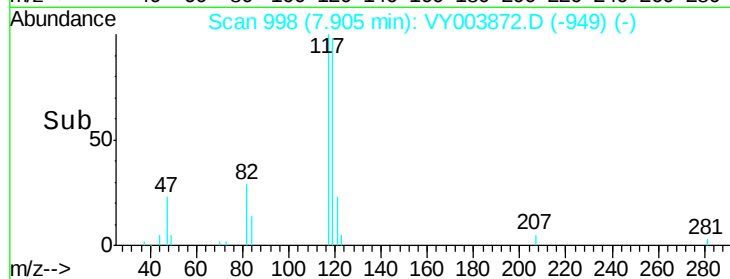
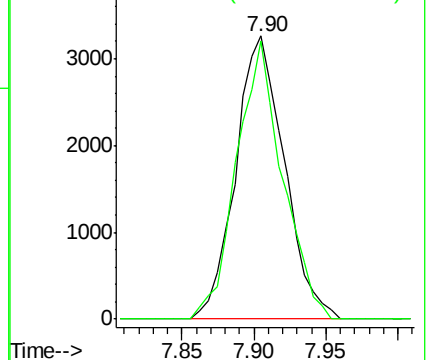
117 100

119 92.9 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 1.047 ug/L

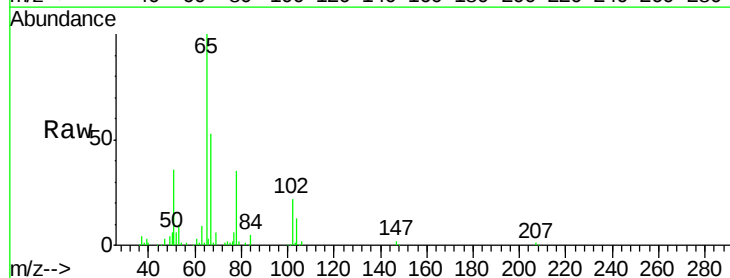
RT: 8.17 min Scan# 1041

Delta R.T. 0.00 min

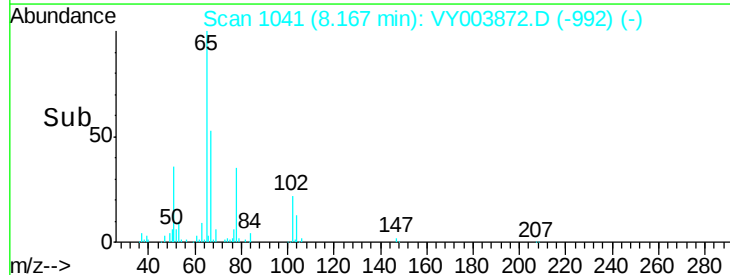
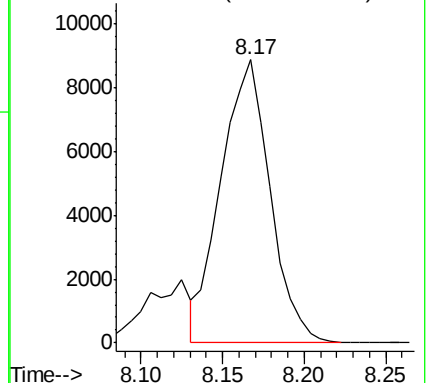
Lab File: VY003872.D

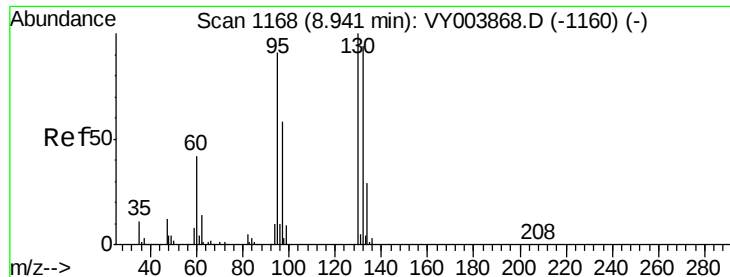
Acq: 04 Jan 2021 15:34

Tgt Ion: 78 Resp: 18597



Abundance Ion 78.00 (77.70 to 78.70): VY0





#34

Trichloroethene

Concen: 0.958 ug/L

RT: 8.94 min Scan# 1167

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 95 Resp: 4704

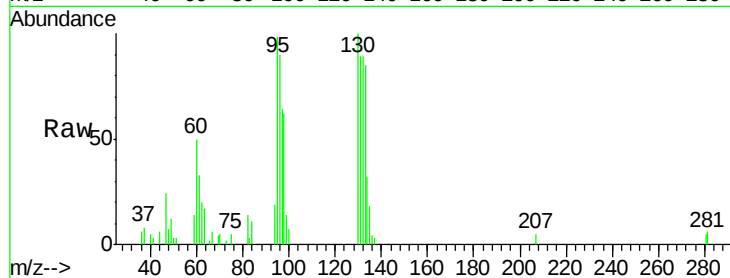
Ion Ratio Lower Upper

95 100

97 65.2 44.4 82.5

132 91.0 71.8 133.4

130 102.3 74.4 138.2

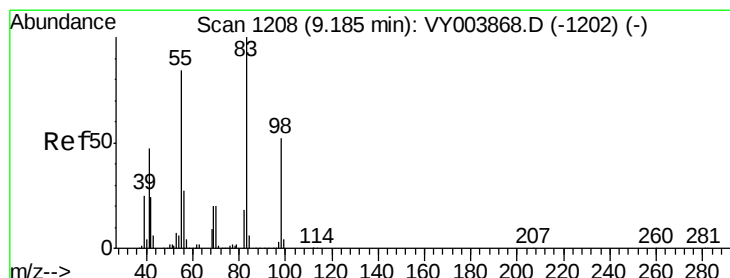
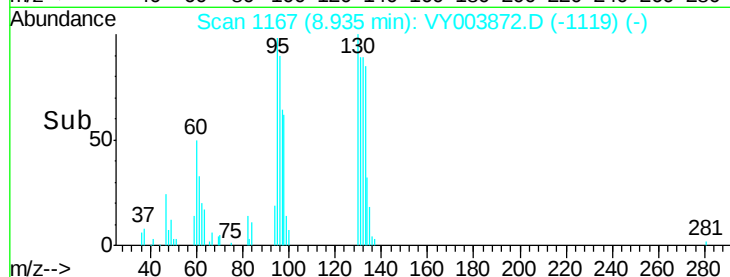
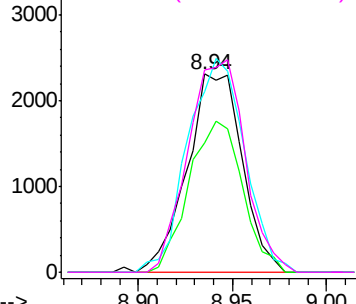


Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): VY0

Ion 130.00 (129.70 to 130.70): VY0



#35

Methylcyclohexane

Concen: 0.860 ug/L

RT: 9.19 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

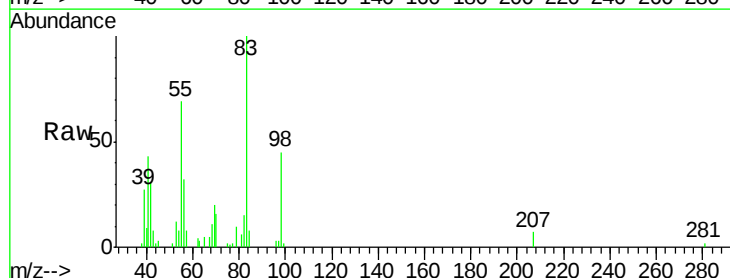
Tgt Ion: 83 Resp: 6873

Ion Ratio Lower Upper

83 100

55 87.8 62.9 94.3

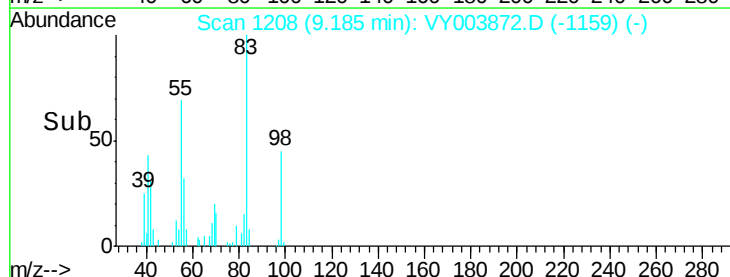
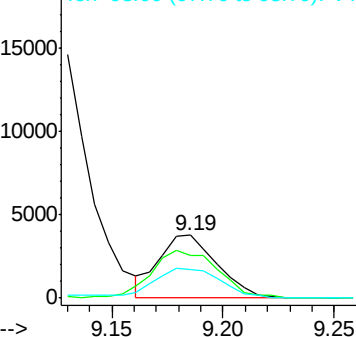
98 54.2 39.7 59.5

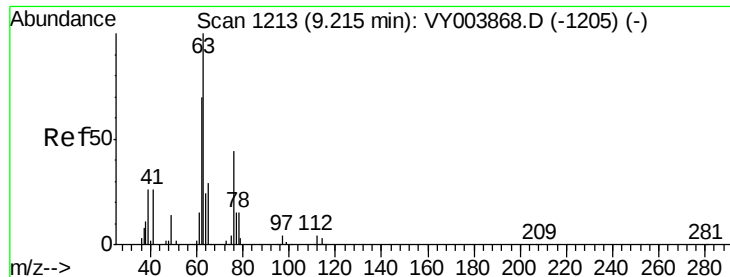


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#37

1,2-Dichloropropane

Concen: 1.018 ug/L

RT: 9.21 min Scan# 1212

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

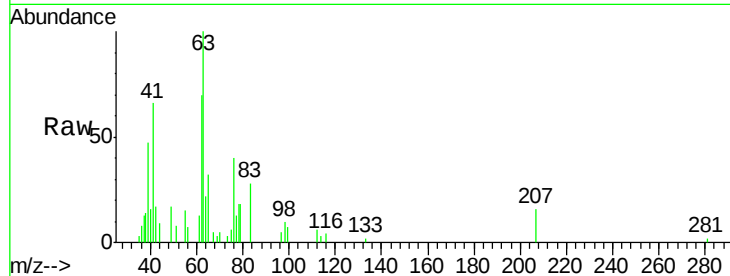
MDL-SOIL-07

Tot Ion: 63 Resp: 4601

Ion Ratio Lower Upper

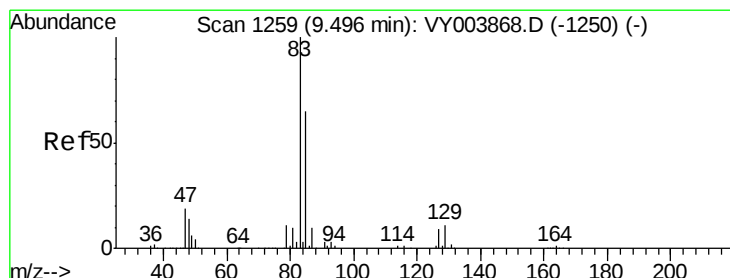
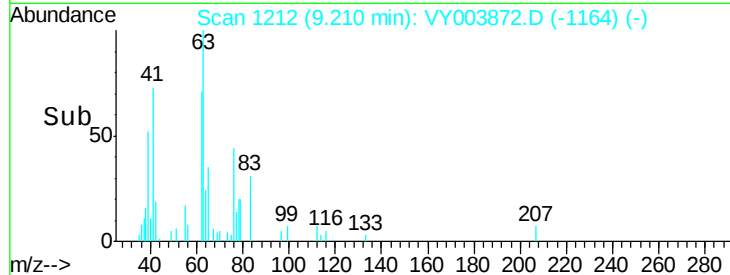
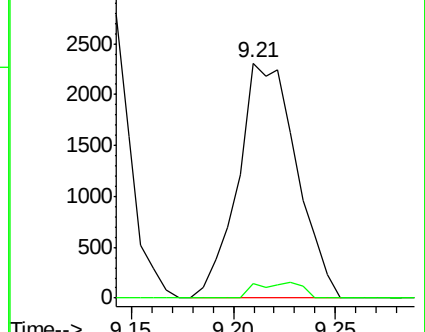
63 100

112 2.0 3.7 5.5#



Abundance Ion 63.00 (62.70 to 63.70): VY0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 1.047 ug/L

RT: 9.50 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

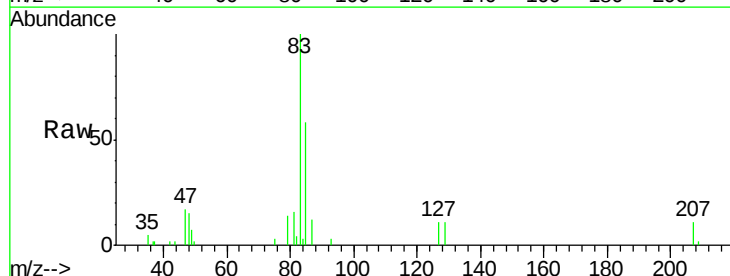
Tgt Ion: 83 Resp: 6670

Ion Ratio Lower Upper

83 100

85 57.8 44.2 82.0

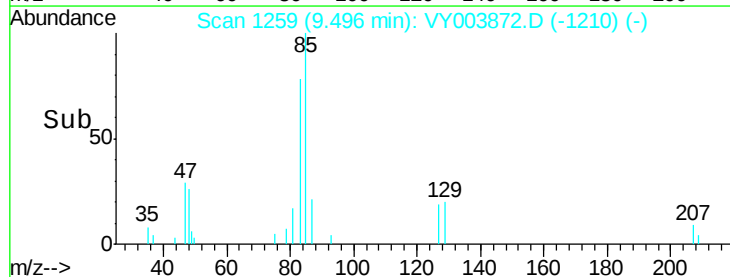
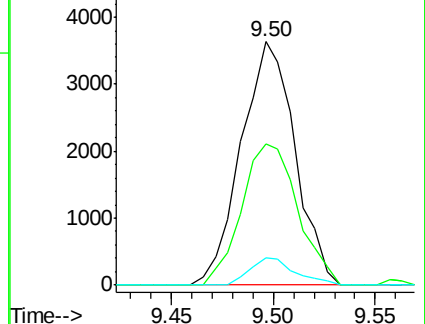
127 11.1 7.3 10.9#

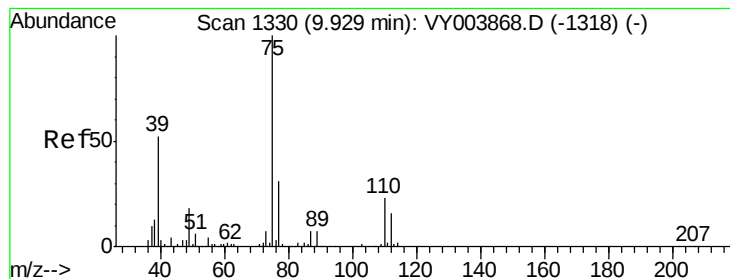


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

Ion 127.00 (126.70 to 127.70): V





#39

cis-1,3-Dichloropropene

Concen: 0.950 ug/L

RT: 9.93 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

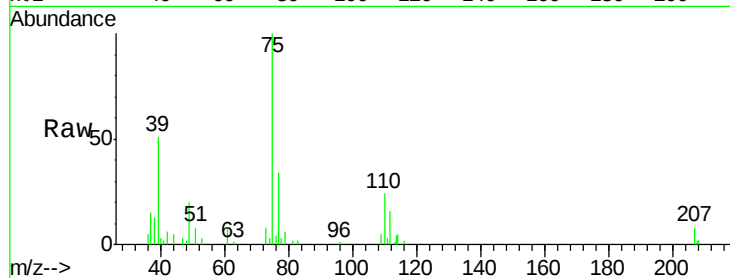
MDL-SOIL-07

Tot Ion: 75 Resp: 7342

Ion Ratio Lower Upper

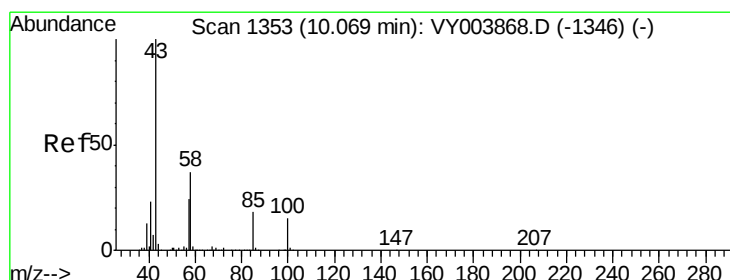
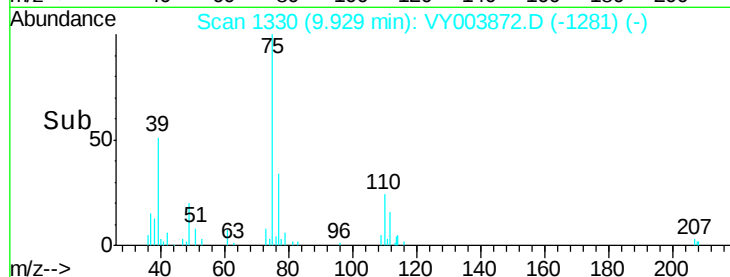
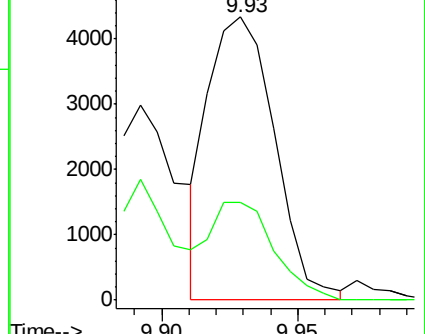
75 100

77 34.5 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0



#40

4-Methyl-2-pentanone

Concen: 1.957 ug/L

RT: 10.07 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

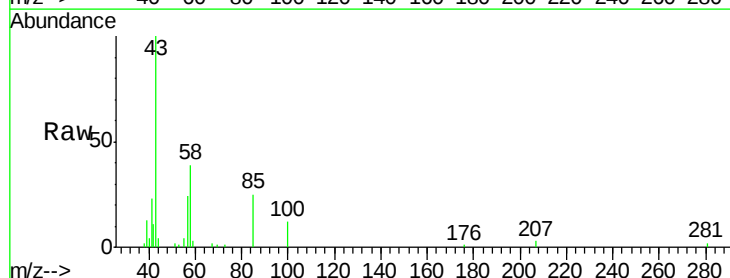
Tgt Ion: 43 Resp: 9448

Ion Ratio Lower Upper

43 100

58 39.1 29.6 44.4

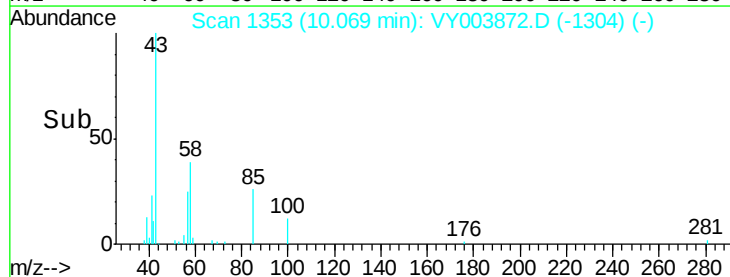
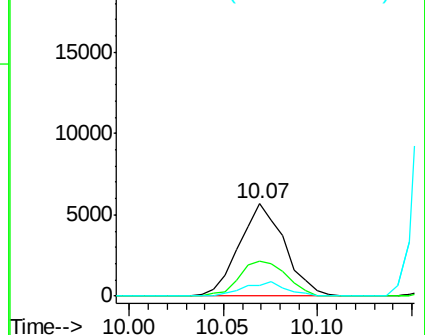
100 14.6 11.8 17.6

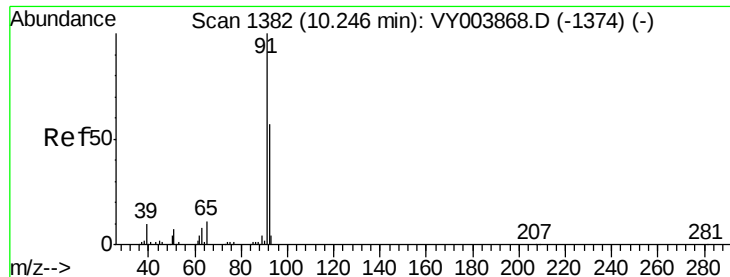


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#42

Toluene

Concen: 1.015 ug/L

RT: 10.24 min Scan# 1381

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

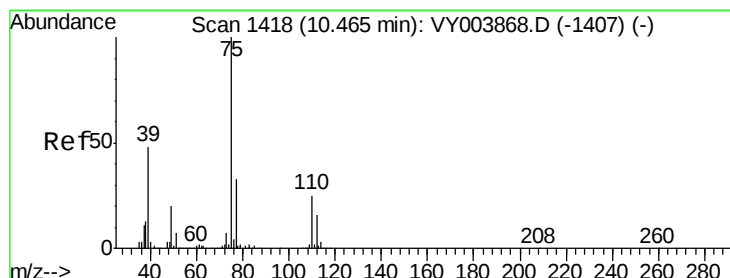
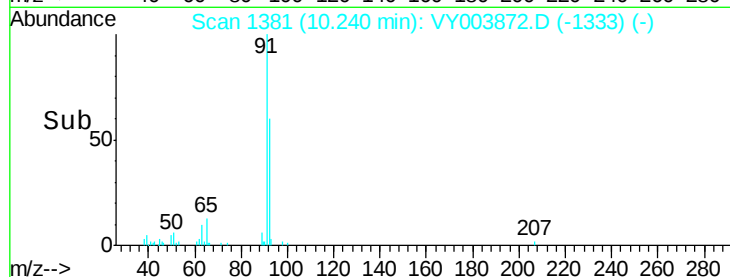
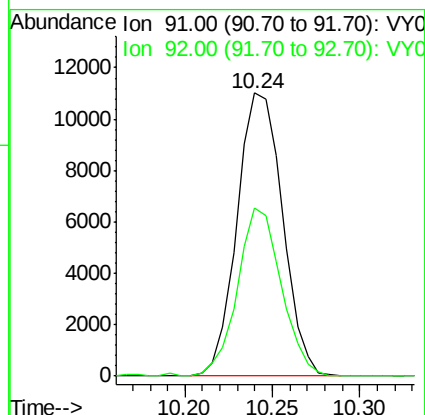
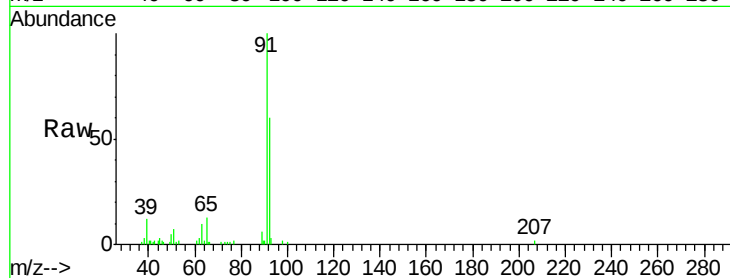
MDL-SOIL-07

Tot Ion: 91 Resp: 19948

Ion Ratio Lower Upper

91 100

92 59.6 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 1.453 ug/L

RT: 10.46 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VY003872.D

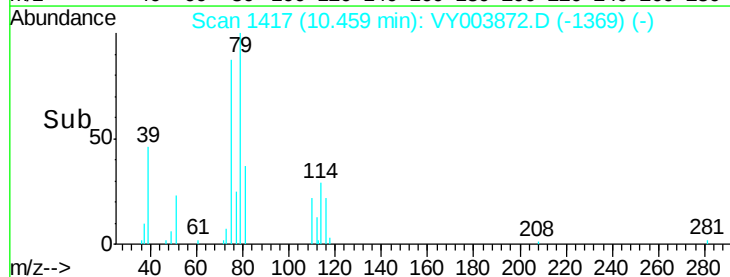
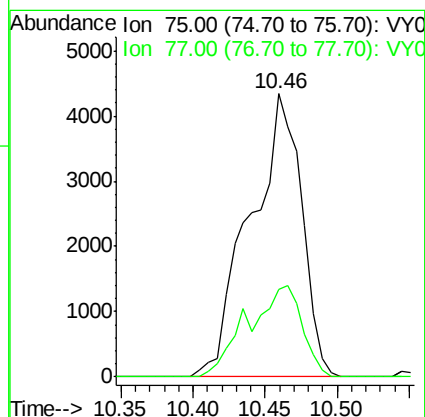
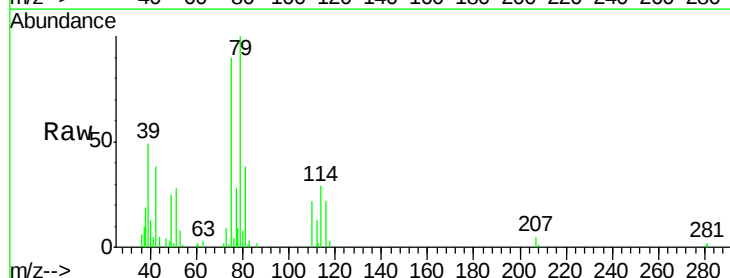
Acq: 04 Jan 2021 15:34

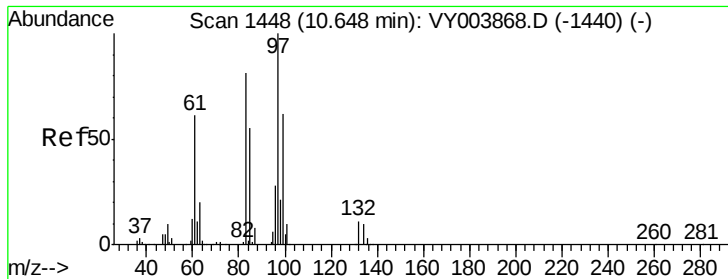
Tgt Ion: 75 Resp: 10835

Ion Ratio Lower Upper

75 100

77 31.0 21.9 40.7





#45

1,1,2-Trichloroethane

Concen: 0.980 ug/L

RT: 10.64 min Scan# 1447

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 97 Resp: 3805

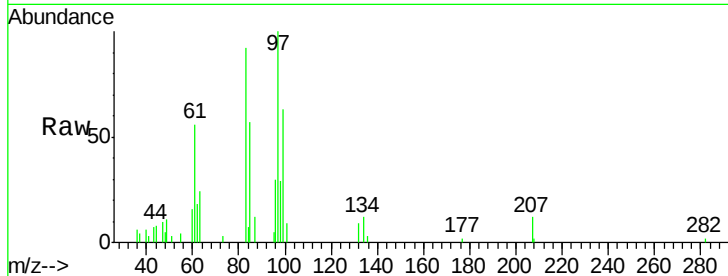
Ion Ratio Lower Upper

97 100

99 63.3 46.0 85.4

83 91.5 60.8 112.8

85 57.2 38.4 71.2

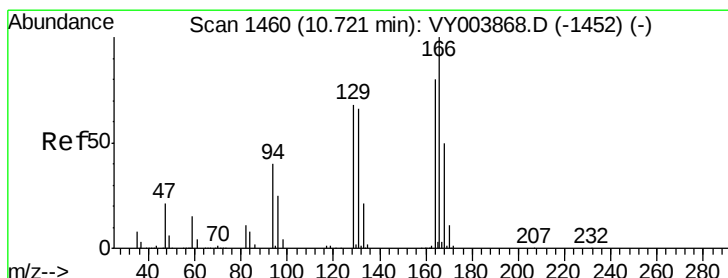
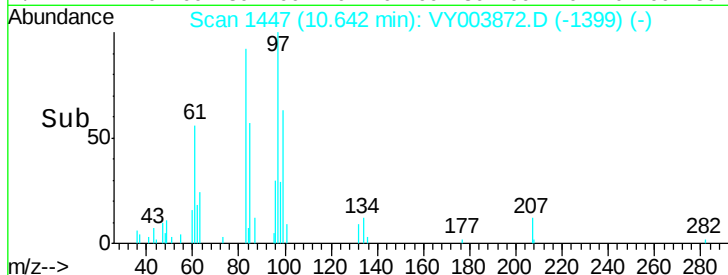
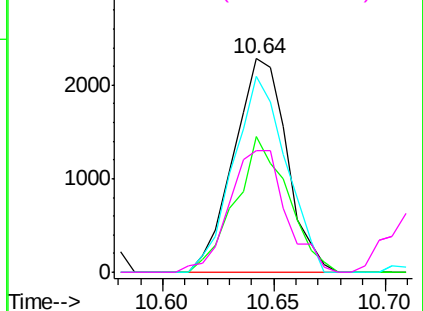


Abundance Ion 97.00 (96.70 to 97.70): VY0

Ion 99.00 (98.70 to 99.70): VY0

Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0



#46

Tetrachloroethene

Concen: 1.018 ug/L

RT: 10.72 min Scan# 1460

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Tgt Ion: 164 Resp: 4323

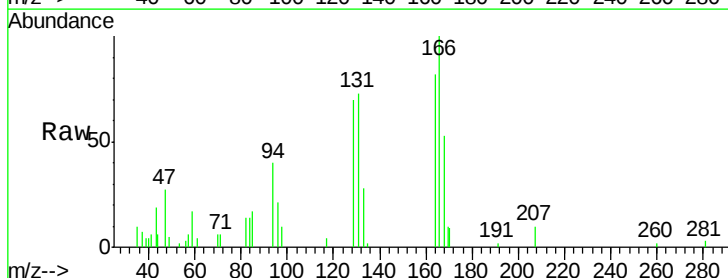
Ion Ratio Lower Upper

164 100

129 85.8 62.5 116.1

131 89.5 60.7 112.7

166 122.0 87.2 162.0

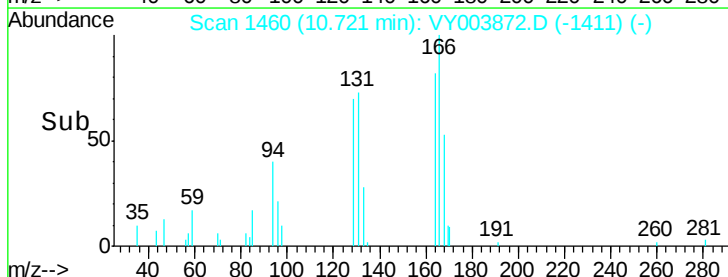
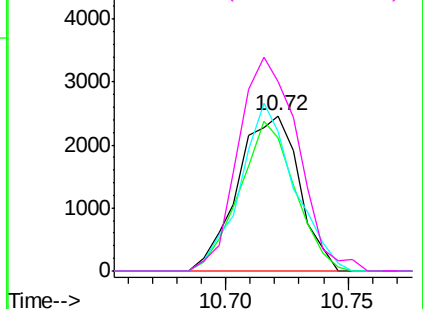


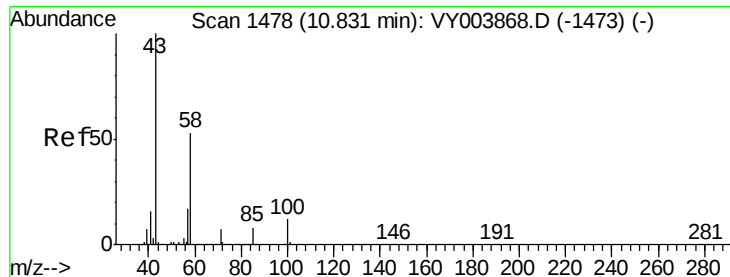
Abundance Ion 164.00 (163.70 to 164.70): V

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

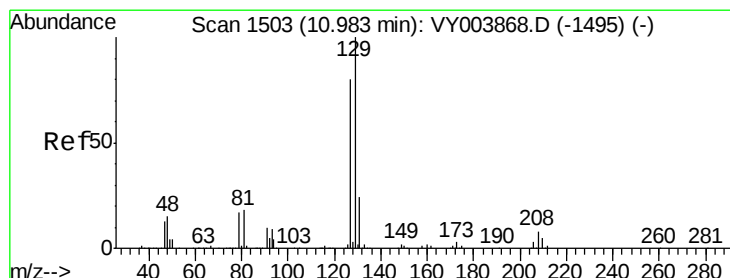
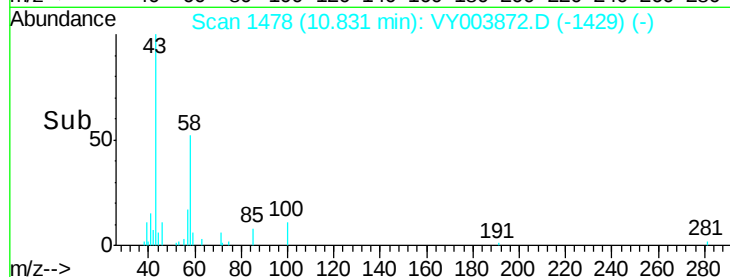
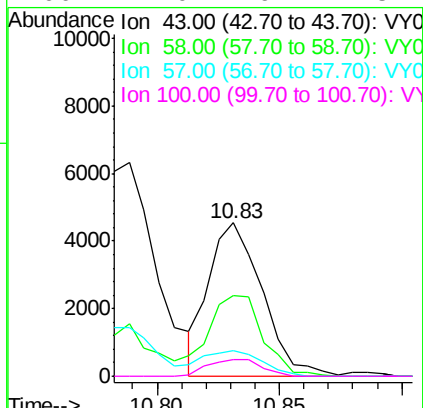
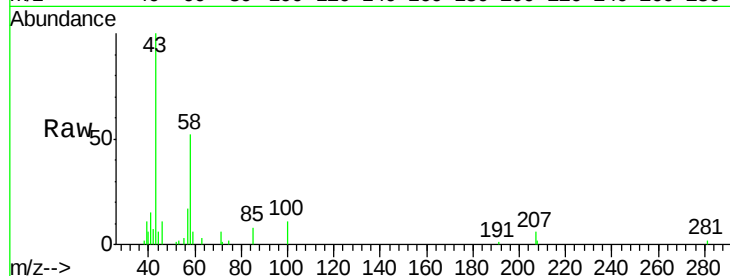




#48
2-Hexanone
Concen: 1.955 ug/L
RT: 10.83 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

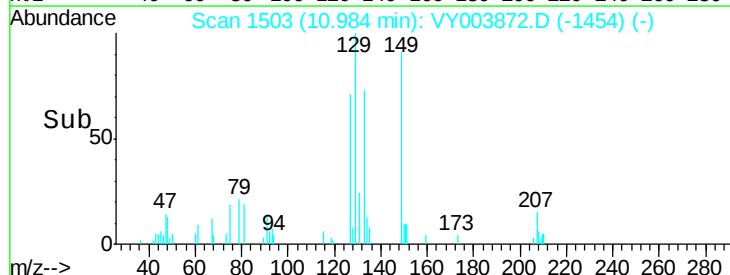
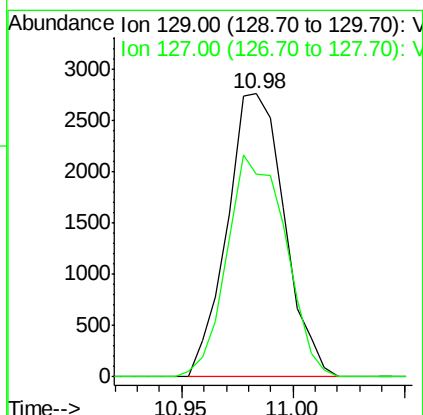
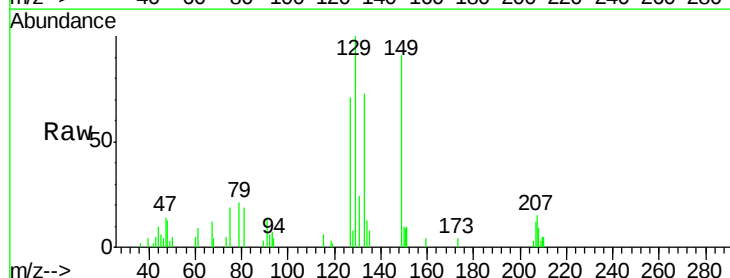
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

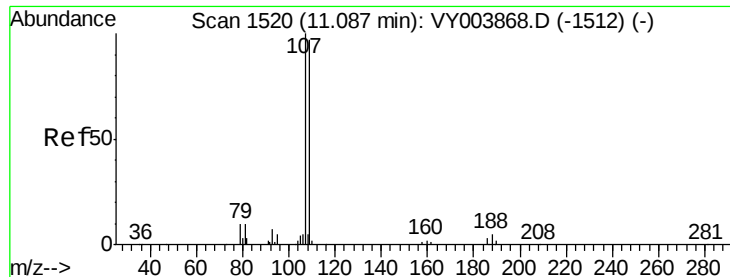
Tot Ion: 43 Resp: 6876
Ion Ratio Lower Upper
43 100
58 54.2 40.6 60.8
57 20.0 14.5 21.7
100 11.0 9.1 13.7



#49
Dibromochloromethane
Concen: 1.007 ug/L
RT: 10.98 min Scan# 1503
Delta R.T. 0.00 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

Tgt Ion: 129 Resp: 4951
Ion Ratio Lower Upper
129 100
127 71.5 52.7 97.9

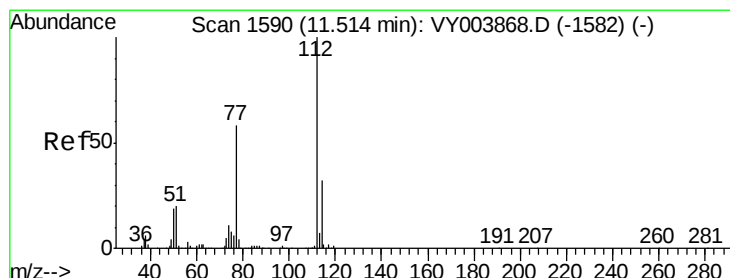
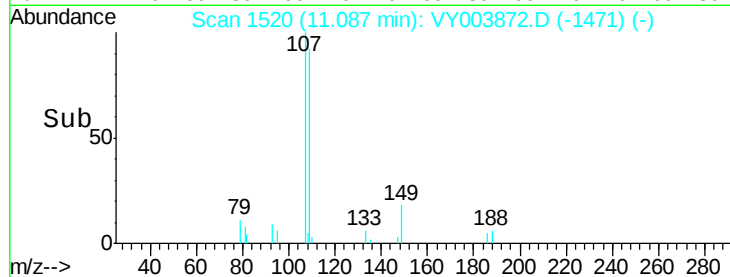
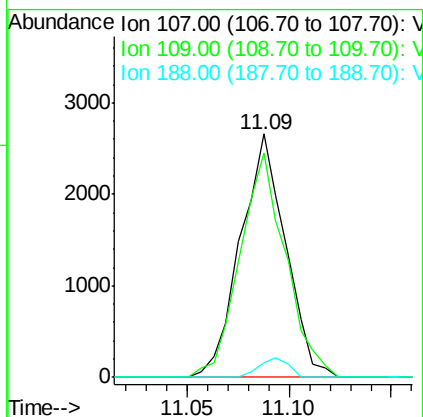
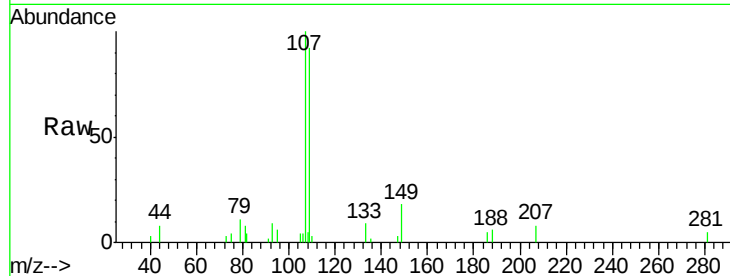




#50
 1,2-Dibromoethane
 Concen: 1.065 ug/L
 RT: 11.09 min Scan# 1520
 Delta R.T. 0.00 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

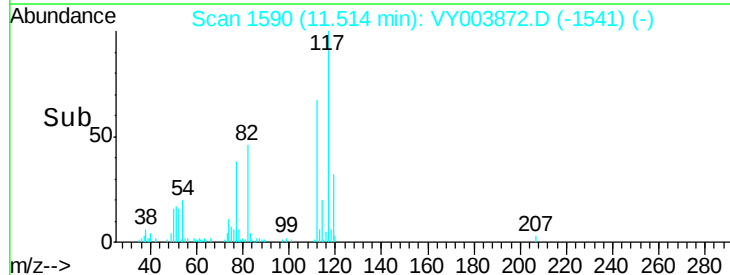
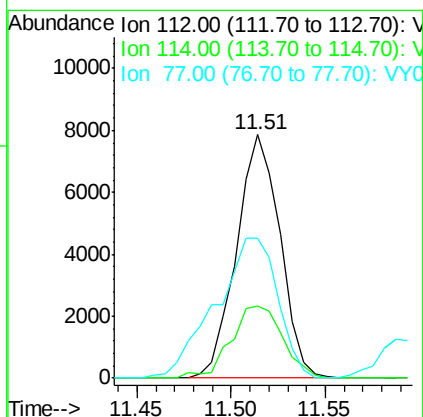
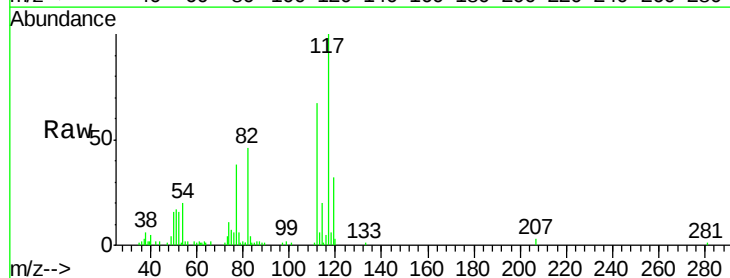
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

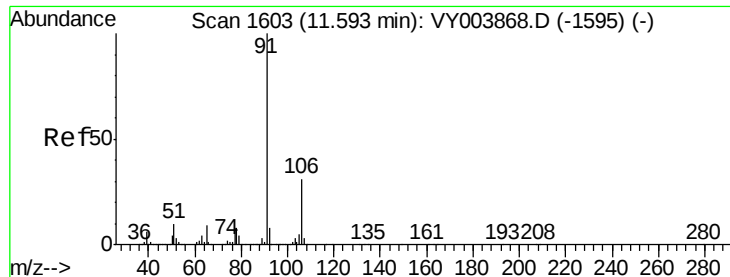
Tot Ion:107 Resp: 4084
 Ion Ratio Lower Upper
 107 100
 109 91.9 65.5 121.7
 188 6.1 3.6 5.4#



#51
 Chlorobenzene
 Concen: 0.989 ug/L
 RT: 11.51 min Scan# 1590
 Delta R.T. 0.00 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

Tgt Ion:112 Resp: 12567
 Ion Ratio Lower Upper
 112 100
 114 29.8 22.5 41.9
 77 57.4 45.2 67.8





#52

Ethylbenzene

Concen: 0.959 ug/L

RT: 11.59 min Scan# 1602

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

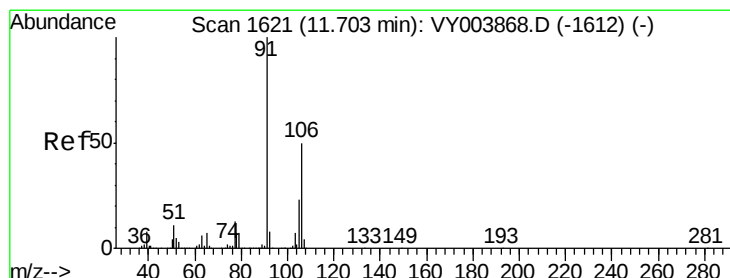
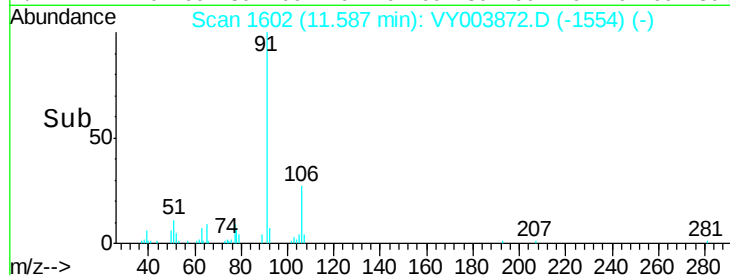
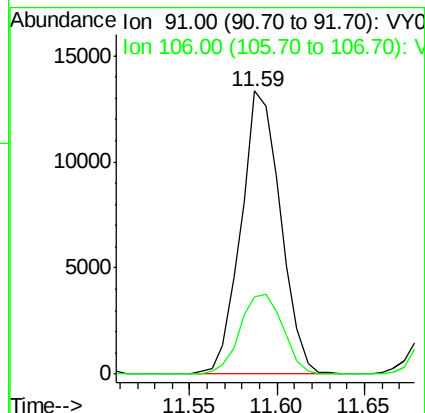
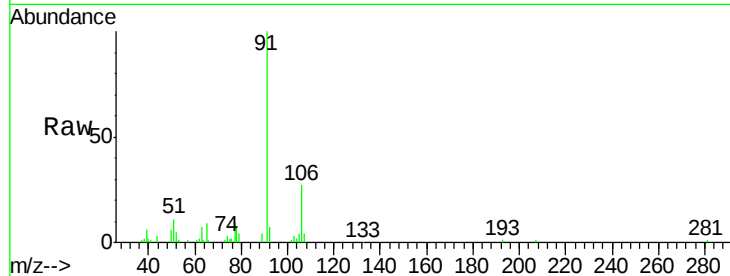
MDL-SOIL-07

Tot Ion: 91 Resp: 21105

Ion Ratio Lower Upper

91 100

106 27.5 21.6 40.0



#53

m,p-Xylene

Concen: 0.968 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003872.D

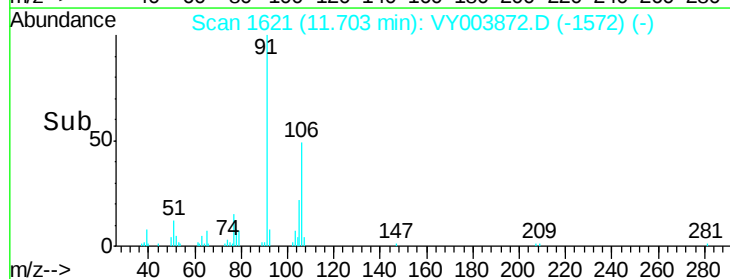
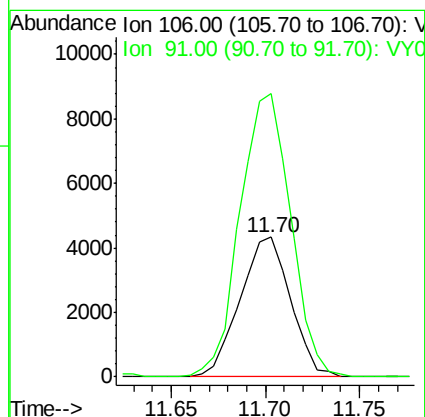
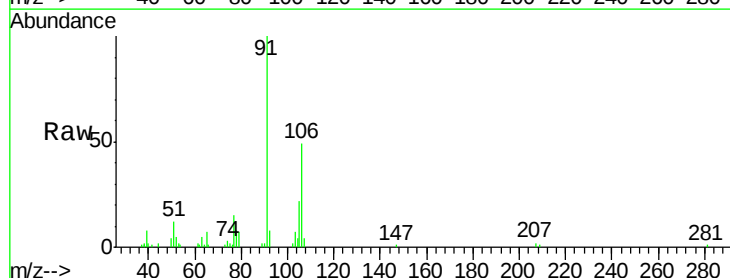
Acq: 04 Jan 2021 15:34

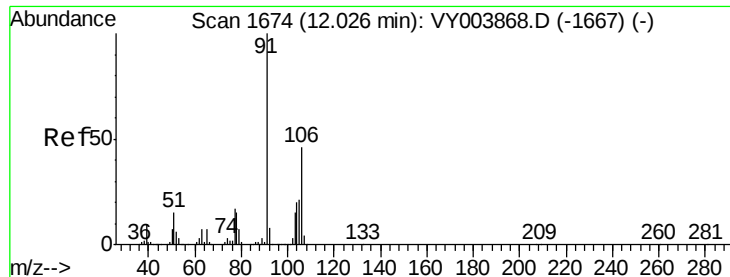
Tgt Ion: 106 Resp: 8078

Ion Ratio Lower Upper

106 100

91 202.3 146.3 271.7





#54

o-Xylene

Concen: 0.954 ug/L

RT: 12.03 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

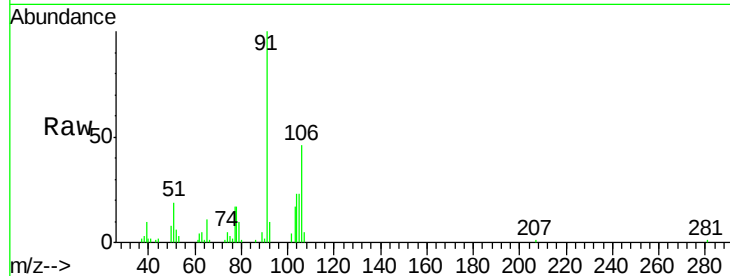
MDL-SOIL-07

Tot Ion:106 Resp: 7751

Ion Ratio Lower Upper

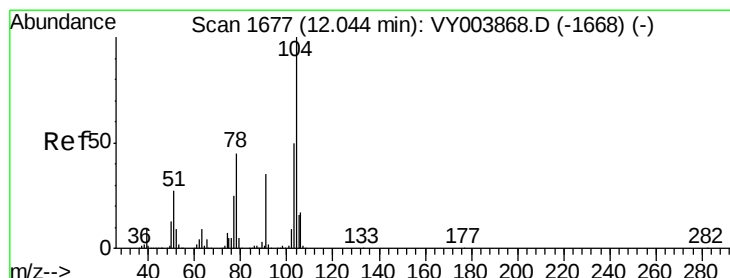
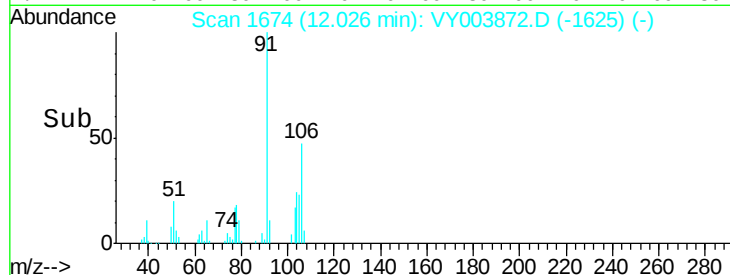
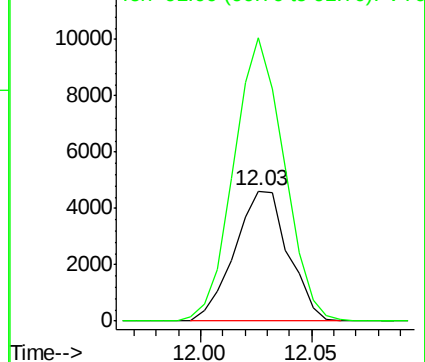
106 100

91 217.7 147.7 274.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#55

Styrene

Concen: 0.905 ug/L

RT: 12.04 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VY003872.D

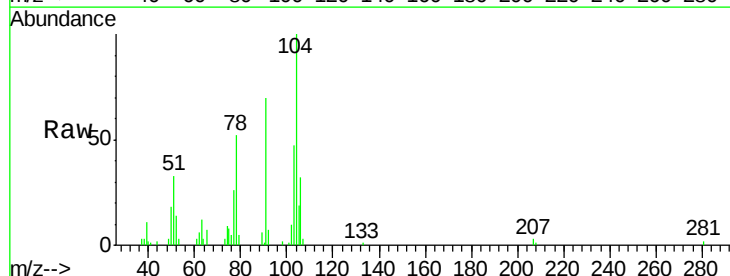
Acq: 04 Jan 2021 15:34

Tgt Ion:104 Resp: 12723

Ion Ratio Lower Upper

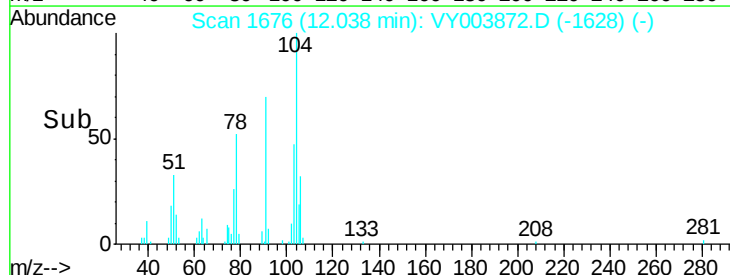
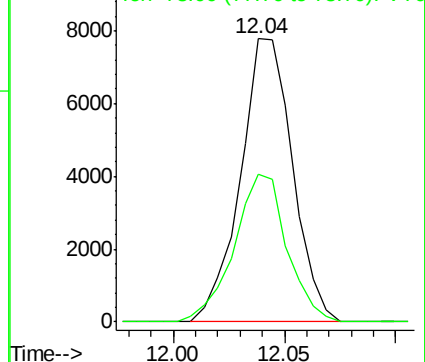
104 100

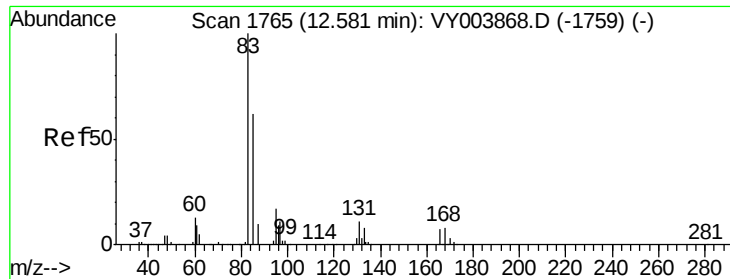
78 52.3 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0

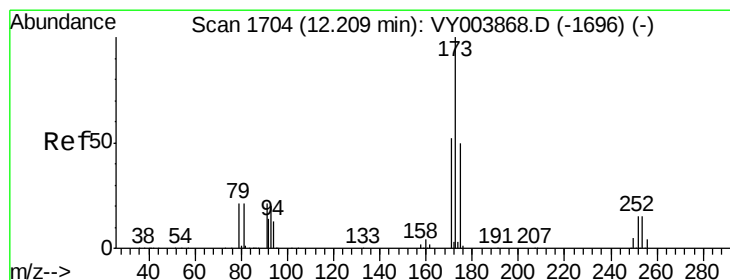
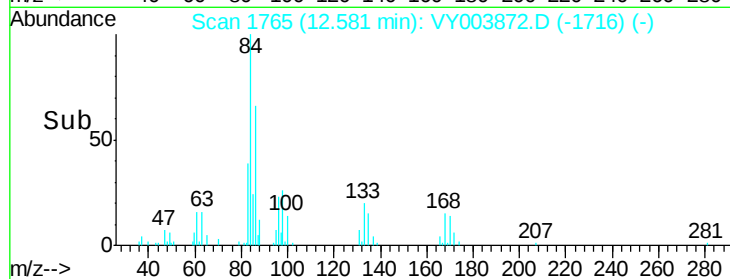
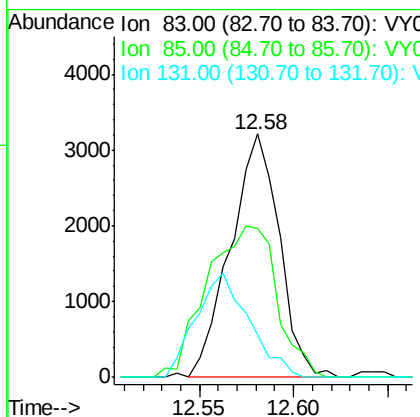
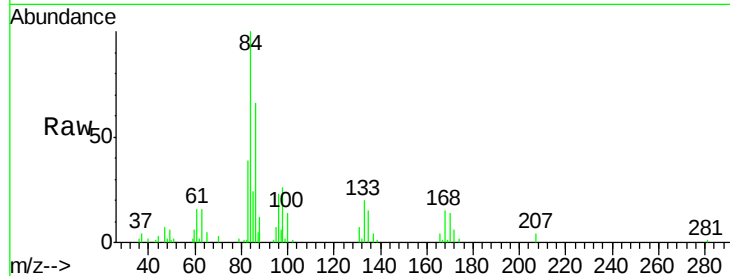




#57
 1,1,2,2-Tetrachloroethane
 Concen: 1.253 ug/L
 RT: 12.58 min Scan# 1765
 Delta R.T. 0.00 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

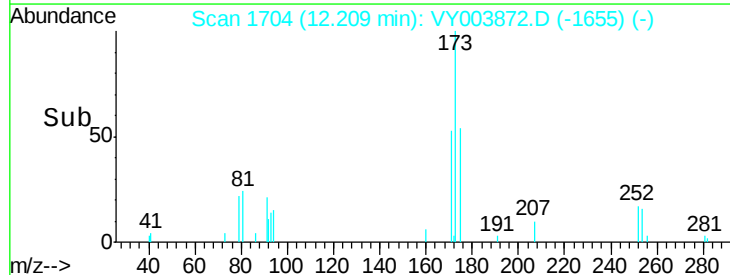
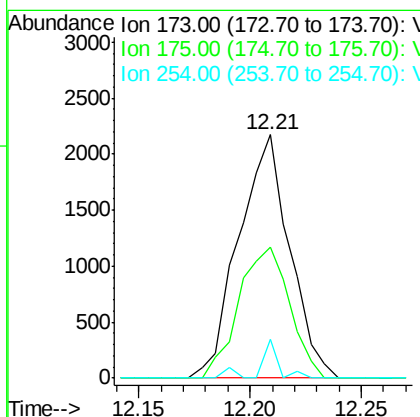
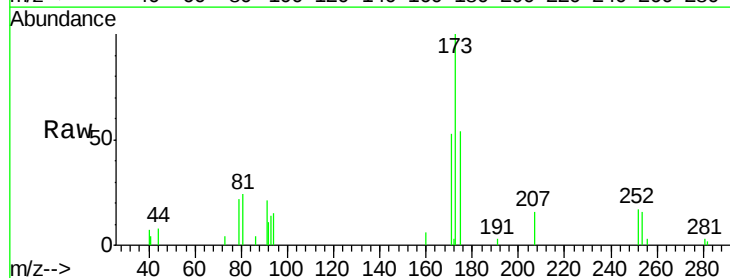
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

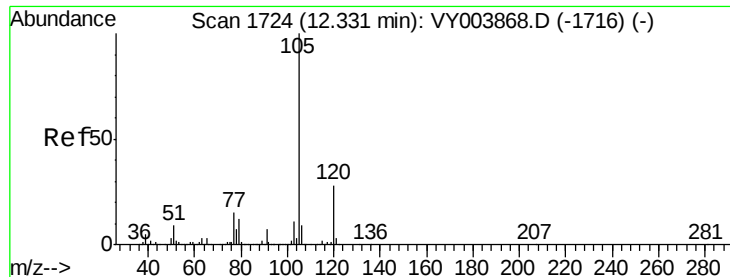
Tot Ion: 83 Resp: 5759
 Ion Ratio Lower Upper
 83 100
 85 61.3 44.9 83.3
 131 17.7 9.0 13.6#



#59
 Bromoform
 Concen: 0.993 ug/L
 RT: 12.21 min Scan# 1704
 Delta R.T. 0.00 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

Tgt Ion: 173 Resp: 3451
 Ion Ratio Lower Upper
 173 100
 175 53.9 38.9 58.3
 254 3.6 11.5 17.3#





#60

Isopropylbenzene

Concen: 0.934 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

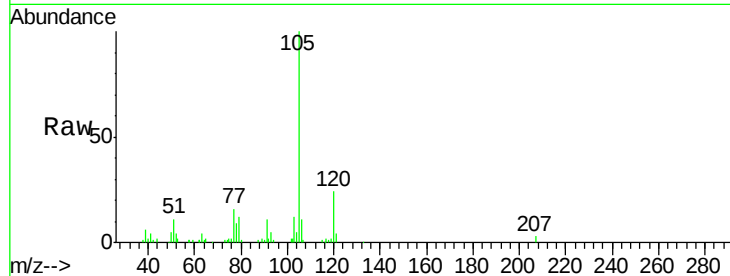
Tot Ion:105 Resp: 19879

Ion Ratio Lower Upper

105 100

120 26.6 21.7 32.5

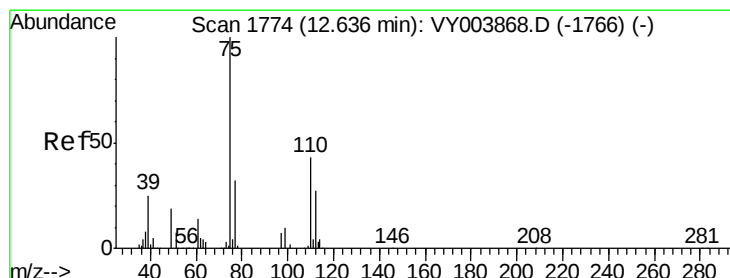
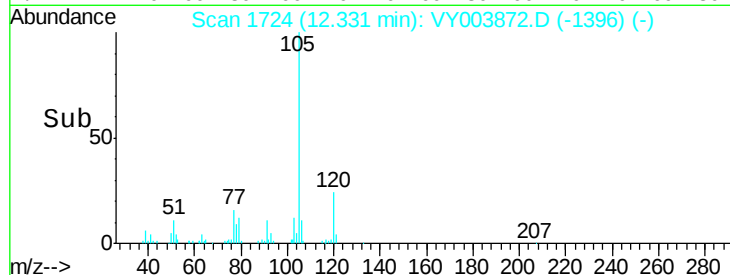
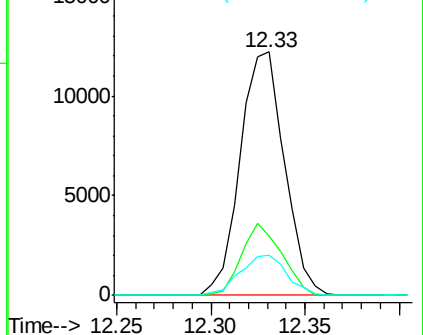
77 17.3 12.9 19.3



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: 1.155 ug/L

RT: 12.63 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

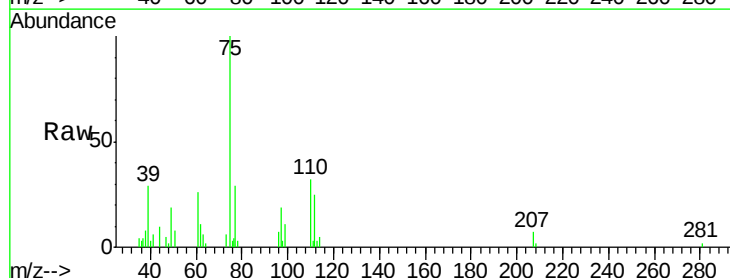
Tgt Ion: 75 Resp: 4567

Ion Ratio Lower Upper

75 100

77 28.8 26.2 39.4

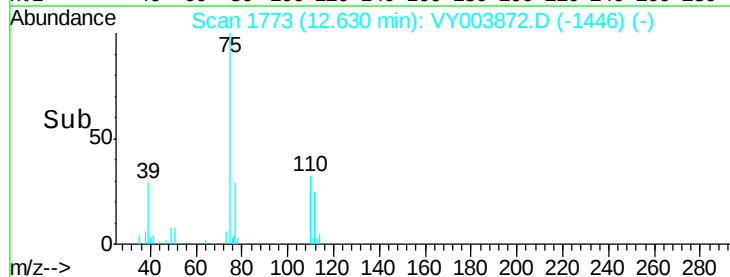
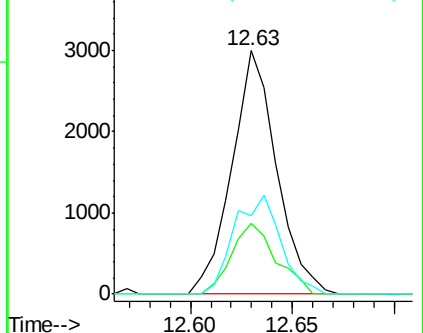
110 42.3 32.4 48.6

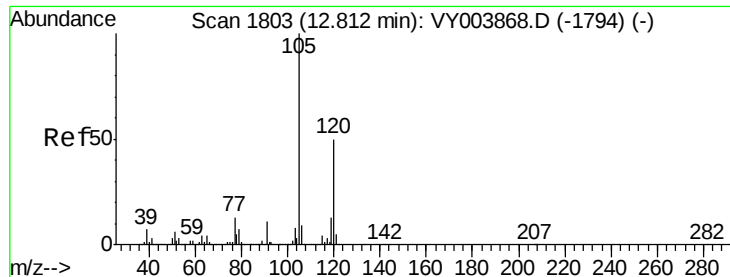


Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 0.912 ug/L

RT: 12.81 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VY003872.D

Acq: 04 Jan 2021 15:34

Instrument :

MSVOA_Y

ClientSampleId :

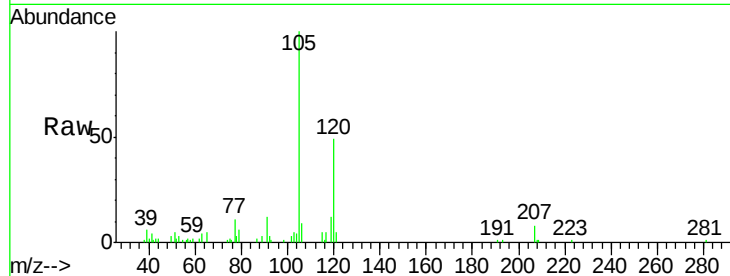
MDL-SOIL-07

Tot Ion:105 Resp: 16113

Ion Ratio Lower Upper

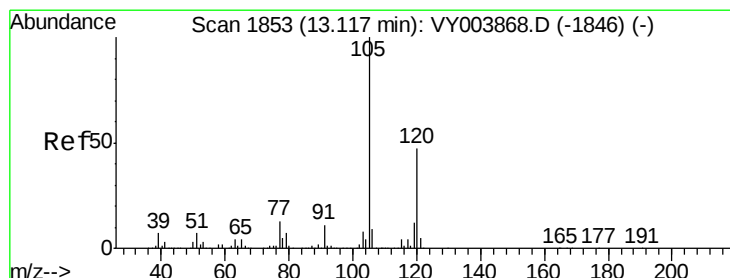
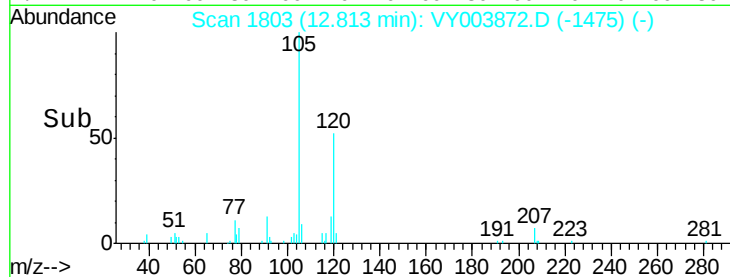
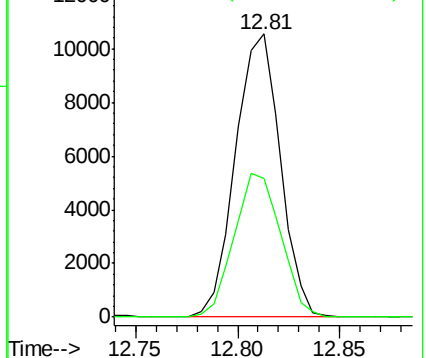
105 100

120 52.8 39.0 58.4



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: 0.944 ug/L

RT: 13.12 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VY003872.D

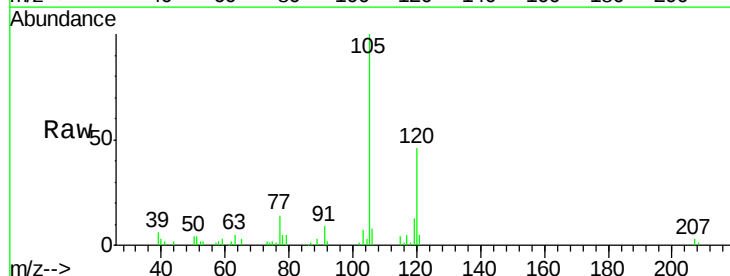
Acq: 04 Jan 2021 15:34

Tgt Ion:105 Resp: 16901

Ion Ratio Lower Upper

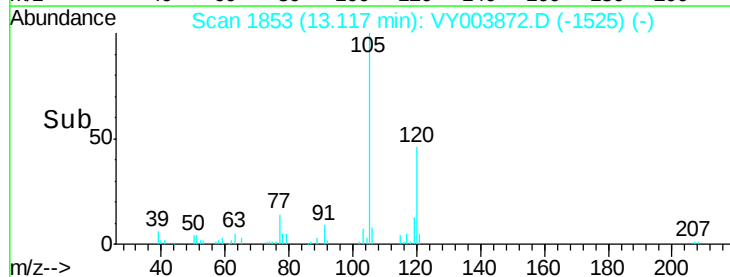
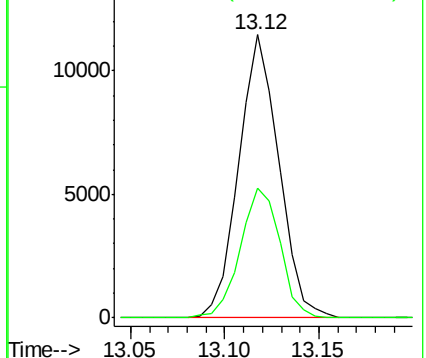
105 100

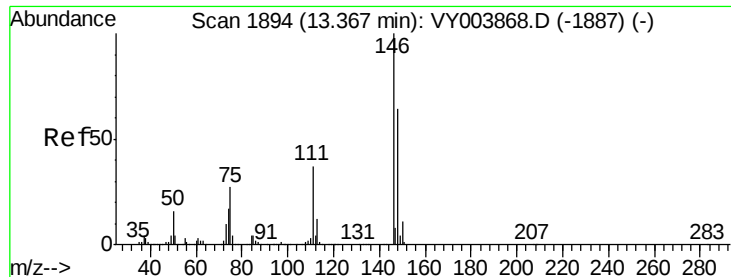
120 45.6 36.5 54.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

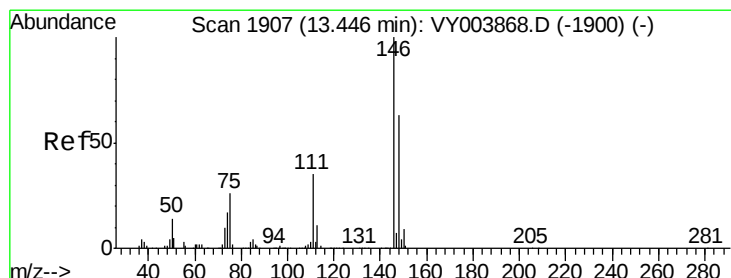
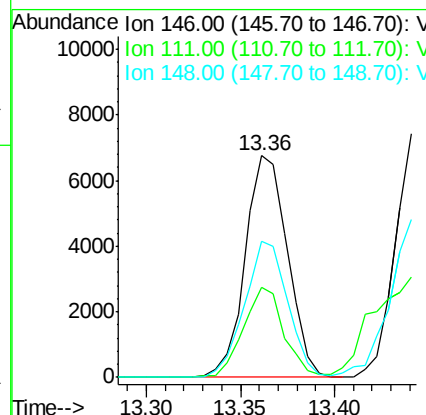
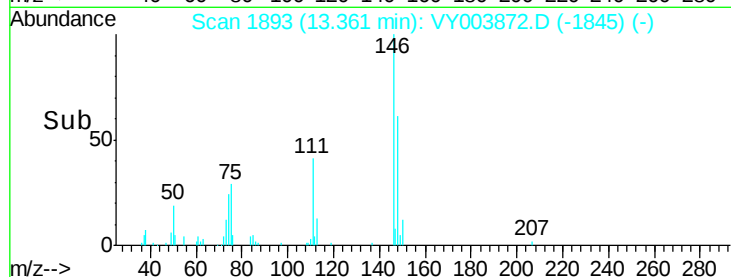
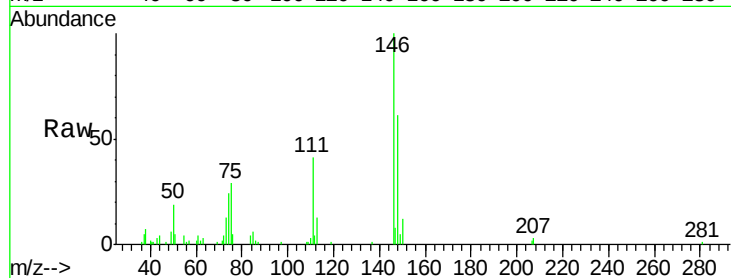




#64
 1,3-Dichlorobenzene
 Concen: 1.017 ug/L
 RT: 13.36 min Scan# 1893
 Delta R.T. -0.01 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

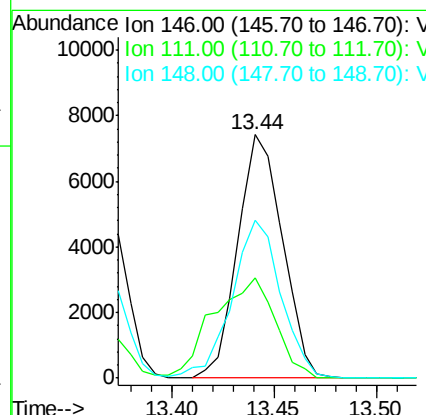
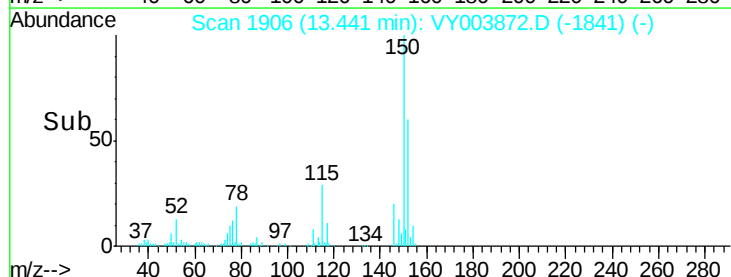
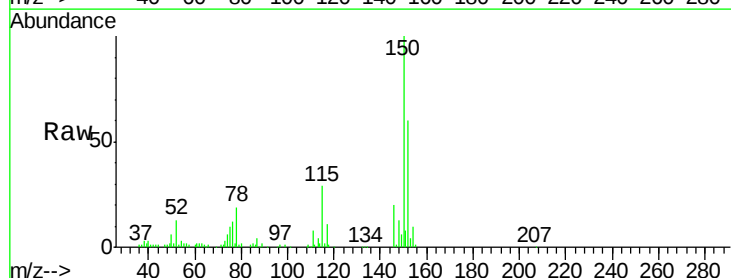
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

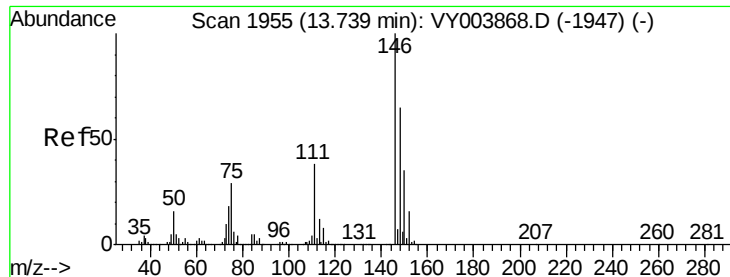
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	27.7	51.5
148	61.4	45.4	84.4



#65
 1,4-Dichlorobenzene
 Concen: 1.087 ug/L
 RT: 13.44 min Scan# 1906
 Delta R.T. -0.01 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.1	25.7	47.7
148	65.1	44.4	82.4

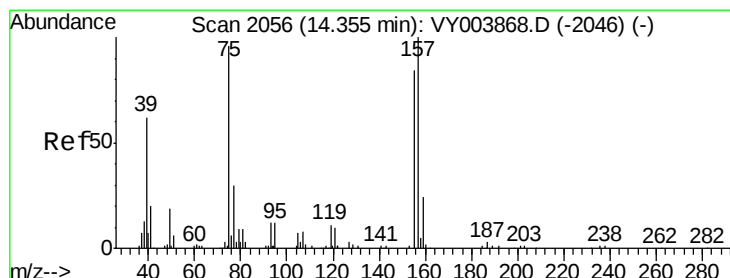
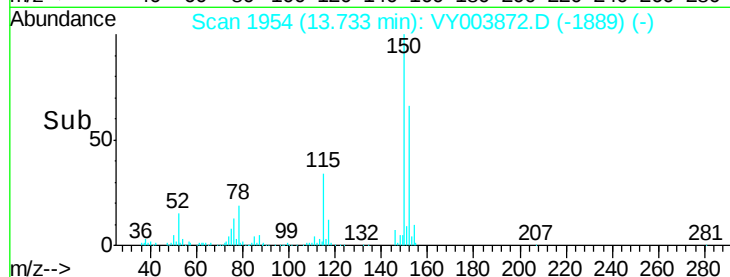
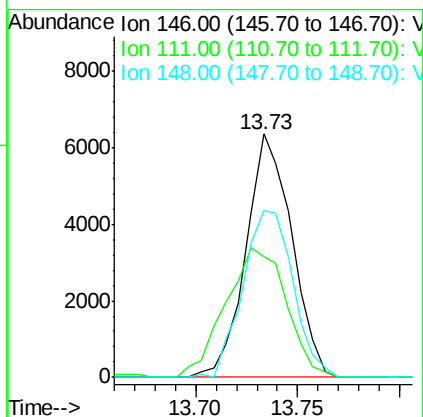
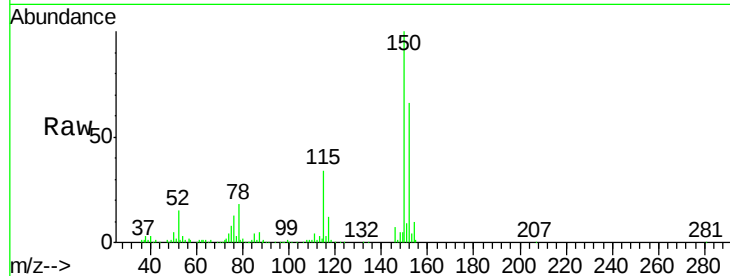




#67
 1,2-Dichlorobenzene
 Concen: 1.028 ug/L
 RT: 13.73 min Scan# 1954
 Delta R.T. -0.01 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

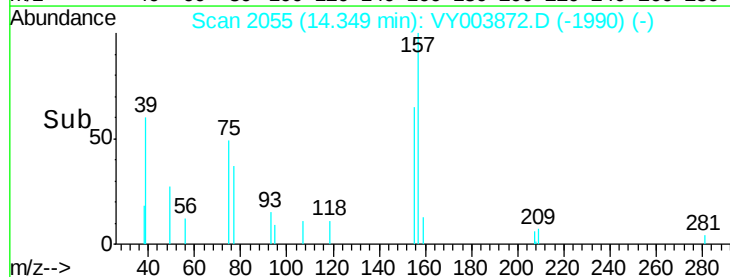
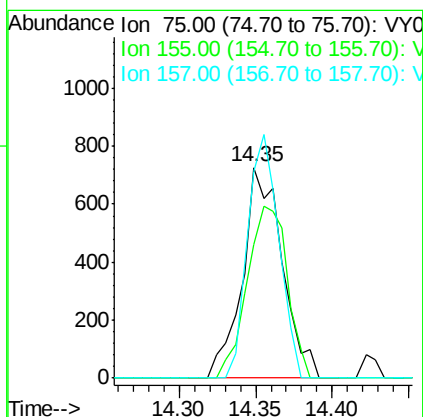
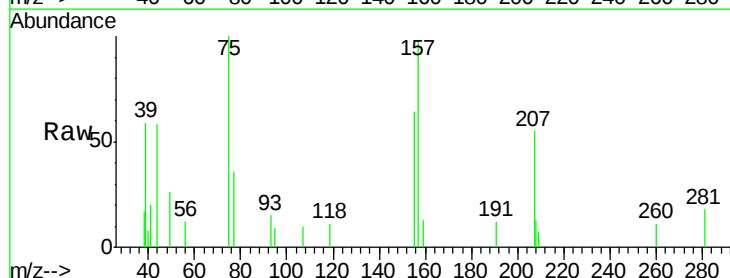
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

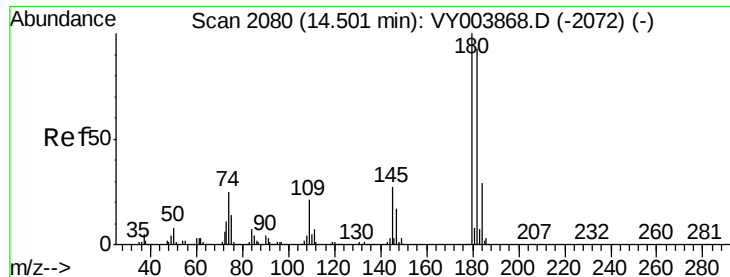
Tot Ion:146 Resp: 9924
 Ion Ratio Lower Upper
 146 100
 111 49.8 31.3 46.9#
 148 68.5 51.0 76.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.339 ug/L
 RT: 14.35 min Scan# 2055
 Delta R.T. -0.01 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

Tgt Ion: 75 Resp: 1316
 Ion Ratio Lower Upper
 75 100
 155 63.6 68.2 102.4#
 157 98.2 90.2 135.4

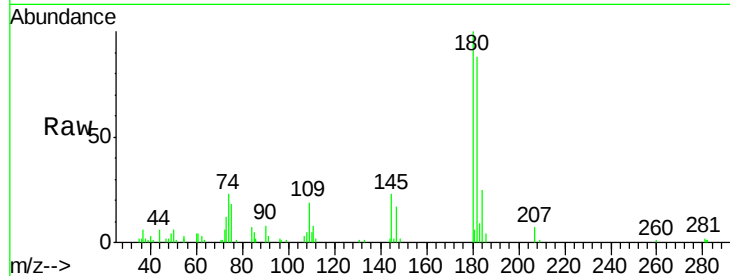




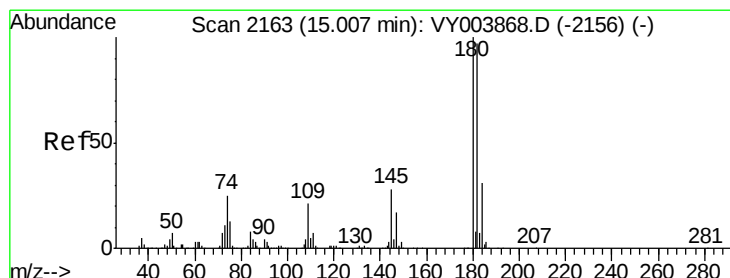
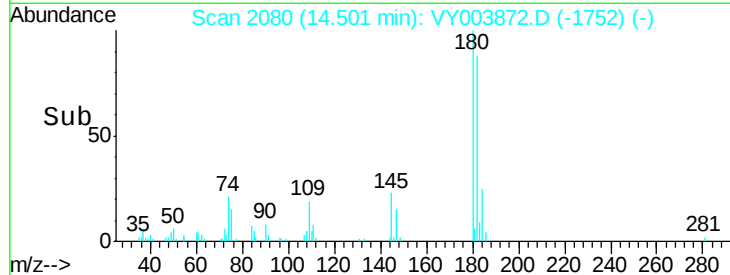
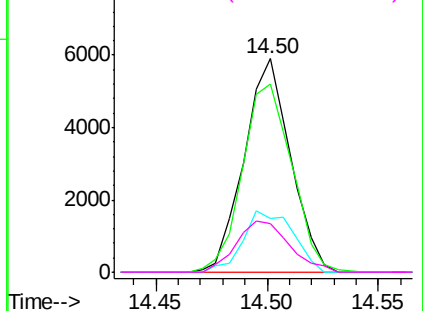
#69
 1,3,5-Trichlorobenzene
 Concen: 1.069 ug/L
 RT: 14.50 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion:180 Resp: 8591
 Ion Ratio Lower Upper
 180 100
 182 94.0 75.6 113.4
 184 30.7 24.9 37.3
 145 27.2 21.8 32.6

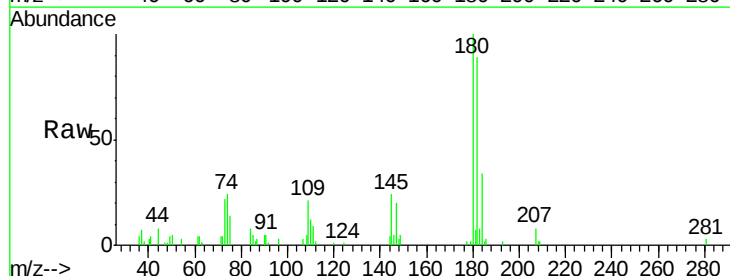


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

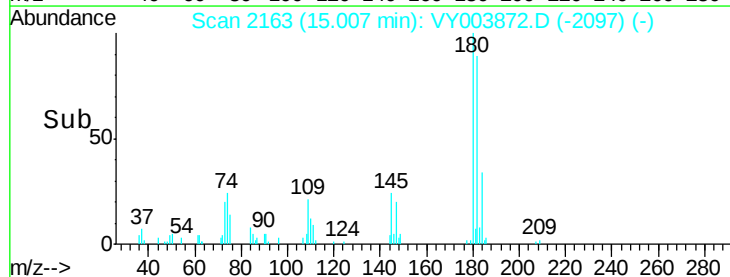
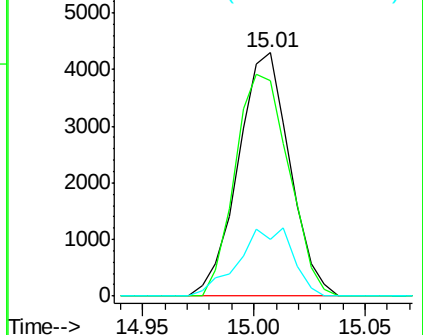


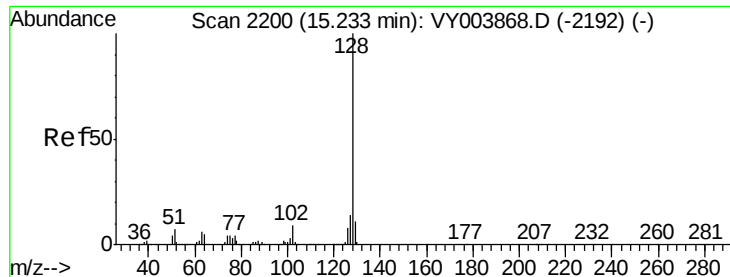
#70
 1,2,4-trichlorobenzene
 Concen: 1.017 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. 0.00 min
 Lab File: VY003872.D
 Acq: 04 Jan 2021 15:34

Tgt Ion:180 Resp: 6930
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.1 114.1
 145 29.4 22.6 33.8



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

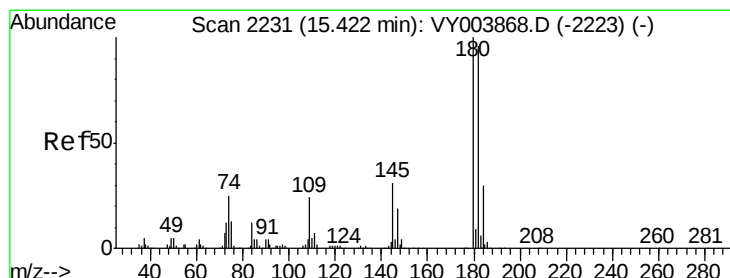
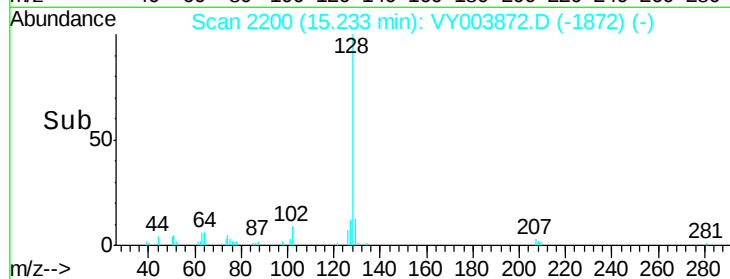
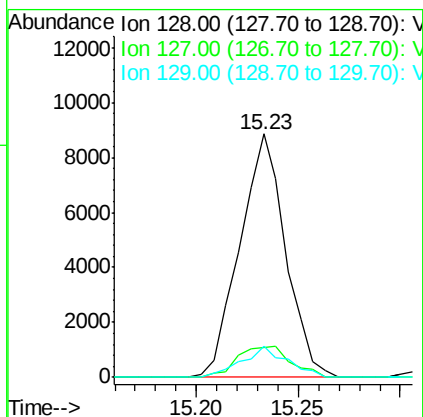
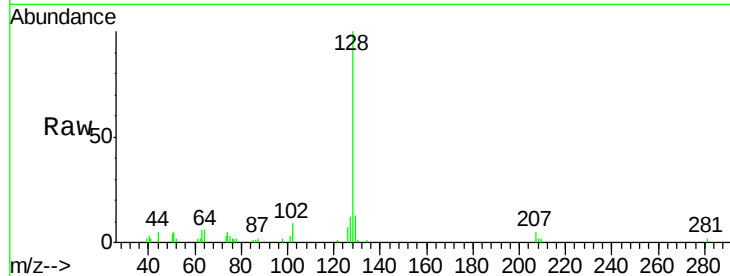




#71
Naphthalene
Concen: 0.971 ug/L
RT: 15.23 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion:128 Resp: 13816
Ion Ratio Lower Upper
128 100
127 14.8 10.7 16.1
129 12.5 8.9 13.3



#72
1,2,3-Trichlorobenzene
Concen: 1.060 ug/L
RT: 15.42 min Scan# 2231
Delta R.T. 0.00 min
Lab File: VY003872.D
Acq: 04 Jan 2021 15:34

Tgt Ion:180 Resp: 6383
Ion Ratio Lower Upper
180 100
182 93.7 74.6 111.8
145 30.6 23.3 34.9

