

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122220\
 Data File : VY003833.D
 Acq On : 22 Dec 2020 13:00
 Operator : SY/MD
 Sample : L4485-07
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Quant Time: Dec 23 00:30:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL120720SMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 23 00:29:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	279797	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	260191	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	136295	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	55343	18.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.96%
7) Chloroethane-d5	2.77	69	51885	22.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	3.86	63	95242	15.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	62.20%
21) 2-Butanone-d5	6.90	46	63337	44.81	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.62%
24) Chloroform-d	7.48	84	140669	22.58	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.32%
26) 1,2-Dichloroethane-d4	8.14	65	82282	23.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.48%
32) Benzene-d6	8.11	84	297837	23.11	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.44%
36) 1,2-Dichloropropane-d6	9.12	67	87377	22.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.24%
41) Toluene-d8	10.18	98	275410	23.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.04%
43) trans-1,3-Dichloropropene-	10.43	79	43171	22.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.96%
47) 2-Hexanone-d5	10.79	63	52860	47.71	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.42%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	89211	24.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.68%
66) 1,2-Dichlorobenzene-d4	13.72	152	110234	24.89	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.56%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	5758	1.966 ug/L	97
3) Chloromethane	2.12	50	5610	1.670 ug/L	95
5) Vinyl chloride	2.25	62	5262	1.554 ug/L #	74
6) Bromomethane	2.66	94	2887	1.325 ug/L	77
9) Trichlorofluoromethane	3.13	101	7706	1.452 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.91	101	5504	1.575 ug/L #	63
12) 1,1-Dichloroethene	3.88	96	5239	1.573 ug/L #	1
13) Acetone	3.95	43	2589	2.672 ug/L	70
14) Carbon disulfide	4.20	76	15149	1.406 ug/L	97
15) Methyl Acetate	4.48	43	2561	1.043 ug/L #	88
16) Methylene chloride	4.72	84	16479	3.369 ug/L	88
17) trans-1,2-Dichloroethene	5.22	96	2480	0.668 ug/L	86
18) Methyl tert-butyl Ether	5.23	73	6165	0.658 ug/L #	67
19) 1,1-Dichloroethane	6.01	63	3376	0.547 ug/L	97
20) cis-1,2-Dichloroethene	7.00	96	4828	1.213 ug/L	89
22) 2-Butanone	6.99	43	3808	2.223 ug/L	89
23) Bromochloromethane	7.34	128	2624	1.325 ug/L	98

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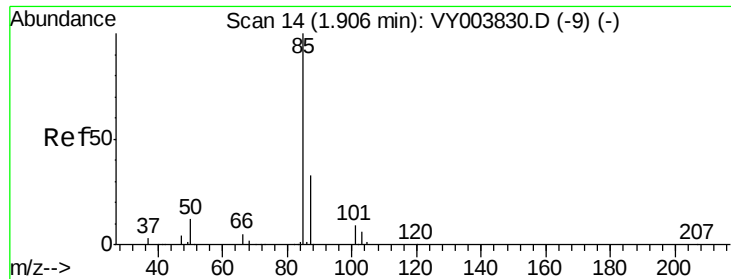
Instrument :
 MSVOA_Y
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Quant Time: Dec 23 00:30:57 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

27) 1,2-Dichloroethane	8.25	62	5173	1.224	ug/L	99
29) Cyclohexane	7.78	56	3997	0.720	ug/L #	28
30) 1,1,1-Trichloroethane	7.71	97	7189	1.328	ug/L	96
31) Carbon tetrachloride	7.91	117	6549	1.336	ug/L	96
33) Benzene	8.16	78	17764	1.207	ug/L	100
34) Trichloroethene	8.94	95	4796	1.211	ug/L	87
35) Methylcyclohexane	9.18	83	7793	1.249	ug/L	97
37) 1,2-Dichloropropane	9.22	63	4236	1.152	ug/L #	94
38) Bromodichloromethane	9.50	83	5445	1.158	ug/L #	92
39) cis-1,3-Dichloropropene	9.93	75	6911	1.192	ug/L	93
40) 4-Methyl-2-pentanone	10.07	43	7049	2.118	ug/L #	95
42) Toluene	10.24	91	19684	1.256	ug/L	96
44) trans-1,3-Dichloropropene	10.47	75	8627	1.597	ug/L	93
45) 1,1,2-Trichloroethane	10.64	97	3682	1.147	ug/L #	86
46) Tetrachloroethene	10.72	164	4528	1.423	ug/L	82
48) 2-Hexanone	10.83	43	5194	2.238	ug/L #	92
49) Dibromochloromethane	10.98	129	4347	1.175	ug/L	79
50) 1,2-Dibromoethane	11.09	107	3693	1.192	ug/L #	97
51) Chlorobenzene	11.51	112	13075	1.262	ug/L	92
52) Ethylbenzene	11.59	91	20662	1.222	ug/L	93
53) m,p-Xylene	11.70	106	8074	1.221	ug/L	100
54) o-Xylene	12.03	106	7353	1.164	ug/L	94
55) Styrene	12.04	104	12476	1.156	ug/L	97
57) 1,1,2,2-Tetrachloroethane	12.58	83	5155	1.480	ug/L #	89
59) Bromoform	12.21	173	3171	1.248	ug/L #	89
60) Isopropylbenzene	12.33	105	19016	1.147	ug/L	99
61) 1,2,3-Trichloropropane	12.64	75	3805	1.251	ug/L	96
62) 1,3,5-Trimethylbenzene	12.81	105	15248	1.160	ug/L	97
63) 1,2,4-Trimethylbenzene	13.12	105	14981	1.147	ug/L	95
64) 1,3-Dichlorobenzene	13.37	146	11334	1.411	ug/L	99
65) 1,4-Dichlorobenzene	13.45	146	10839	1.332	ug/L	97
67) 1,2-Dichlorobenzene	13.74	146	9716	1.300	ug/L	96
68) 1,2-Dibromo-3-chloropropan	14.35	75	1032	1.545	ug/L #	74
69) 1,3,5-Trichlorobenzene	15.01	180	6212	1.091	ug/L	93
70) 1,2,4-trichlorobenzene	15.01	180	6212	1.283	ug/L	90
71) Naphthalene	15.23	128	11855	1.154	ug/L	98
72) 1,2,3-Trichlorobenzene	15.42	180	6036	1.360	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 1.966 ug/L

RT: 1.91 min Scan# 14

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

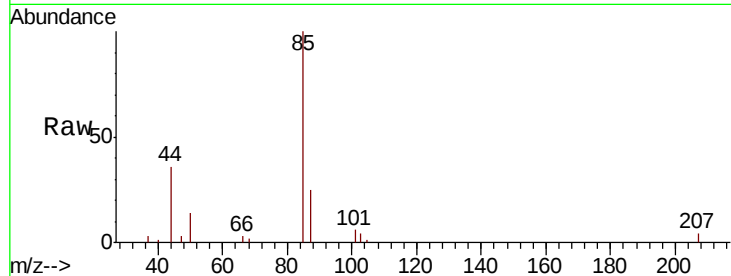
MDL-SOIL-07

Tot Ion: 85 Resp: 5758

Ion Ratio Lower Upper

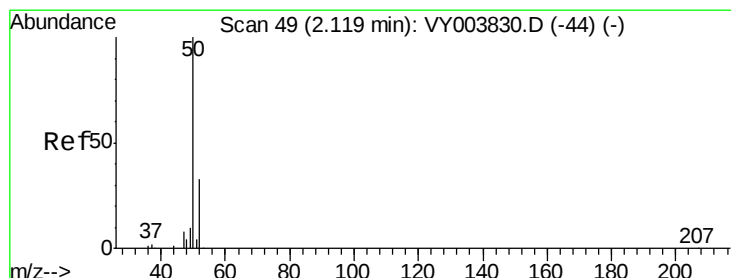
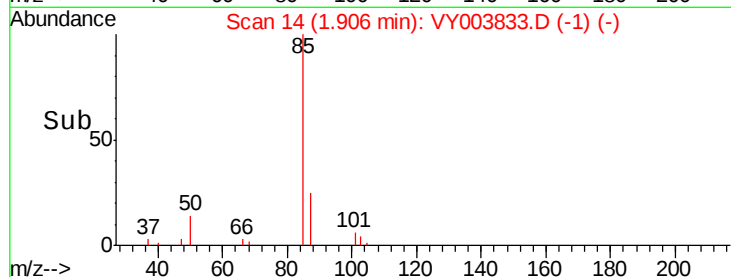
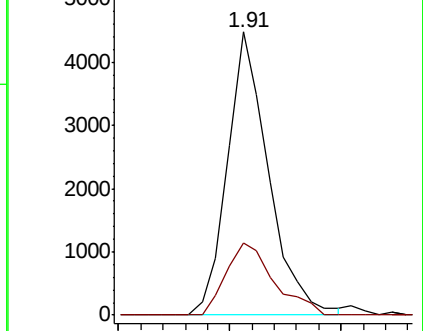
85 100

87 29.5 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VY0

Ion 87.00 (86.70 to 87.70): VY0



#3

Chloromethane

Concen: 1.670 ug/L

RT: 2.12 min Scan# 49

Delta R.T. 0.00 min

Lab File: VY003833.D

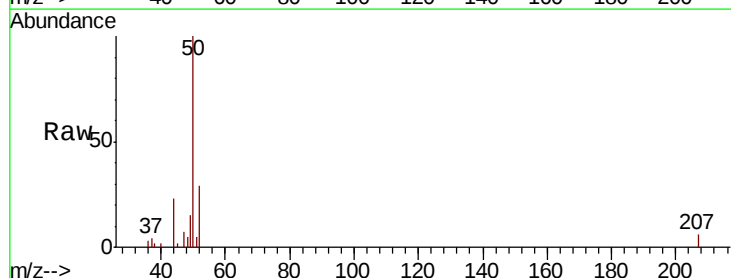
Acq: 22 Dec 2020 13:00

Tgt Ion: 50 Resp: 5610

Ion Ratio Lower Upper

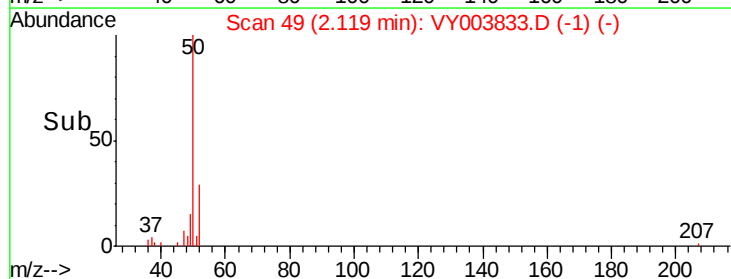
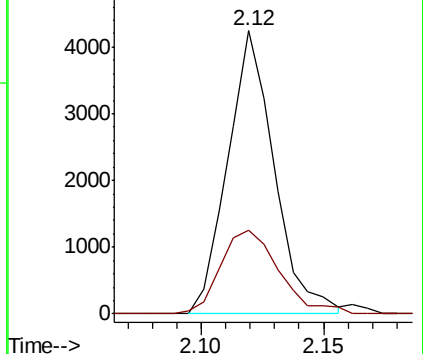
50 100

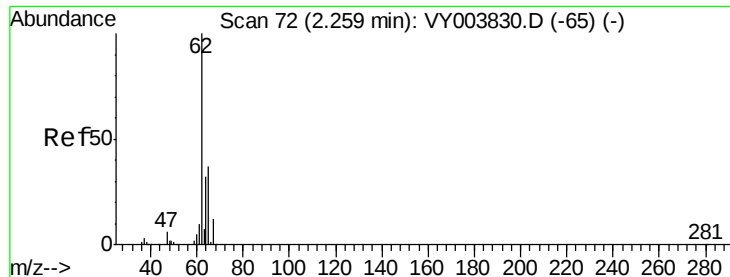
52 29.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0





#5

Vinyl chloride

Concen: 1.554 ug/L

RT: 2.25 min Scan# 71

Delta R.T. -0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

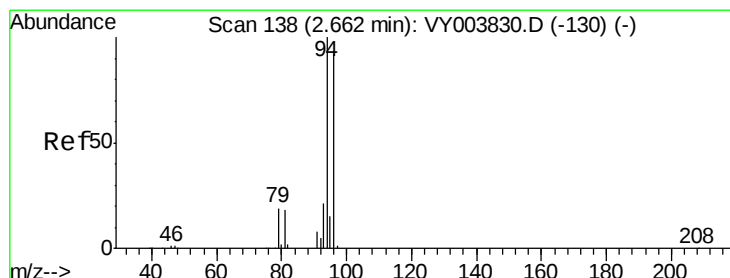
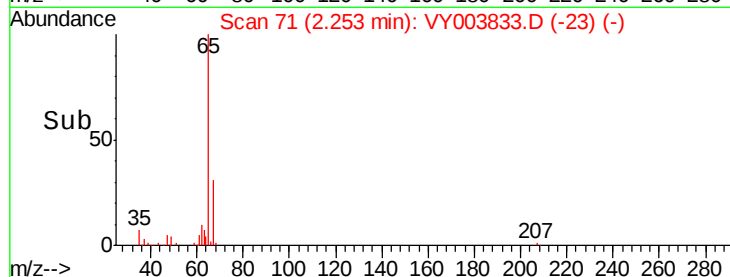
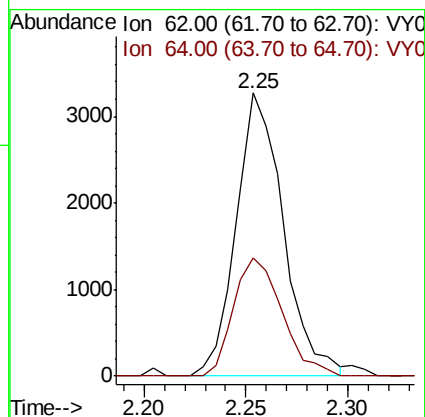
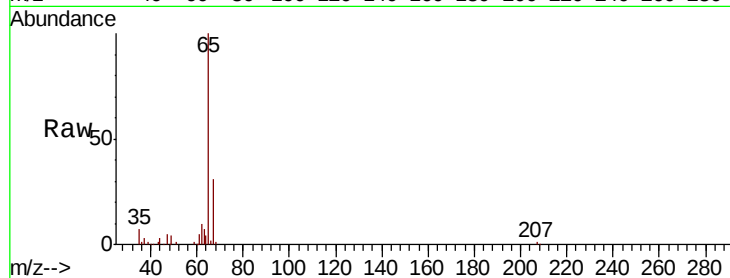
MDL-SOIL-07

Tot Ion: 62 Resp: 5262

Ion Ratio Lower Upper

62 100

64 41.8 19.6 36.4#



#6

Bromomethane

Concen: 1.325 ug/L

RT: 2.66 min Scan# 137

Delta R.T. -0.01 min

Lab File: VY003833.D

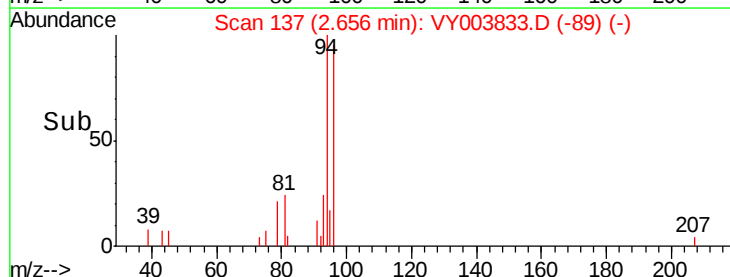
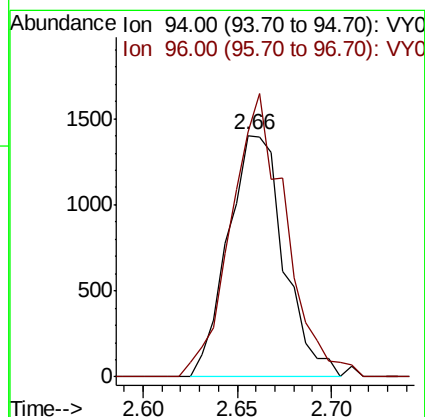
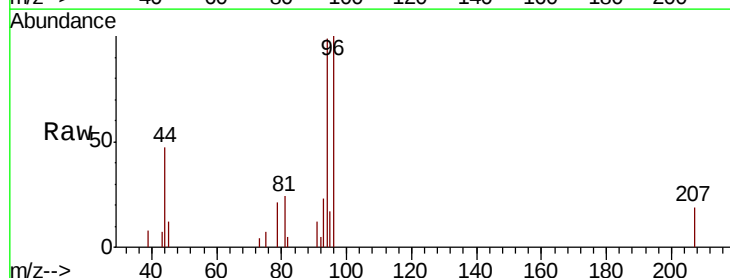
Acq: 22 Dec 2020 13:00

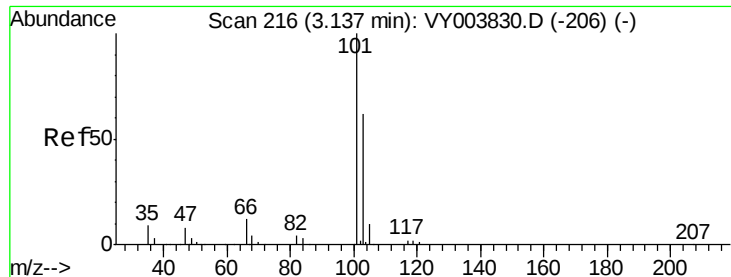
Tgt Ion: 94 Resp: 2887

Ion Ratio Lower Upper

94 100

96 101.3 56.6 105.2





#9

Trichlorofluoromethane

Concen: 1.452 ug/L

RT: 3.13 min Scan# 215

Delta R.T. -0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

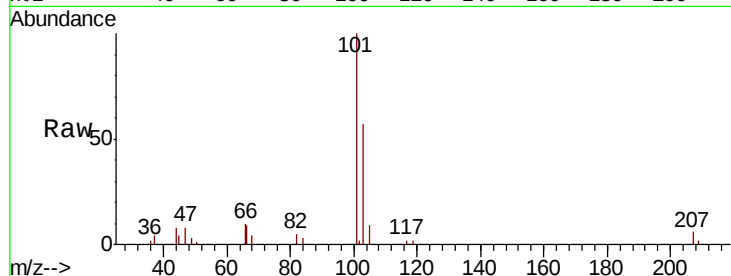
MDL-SOIL-07

Tot Ion:101 Resp: 7706

Ion Ratio Lower Upper

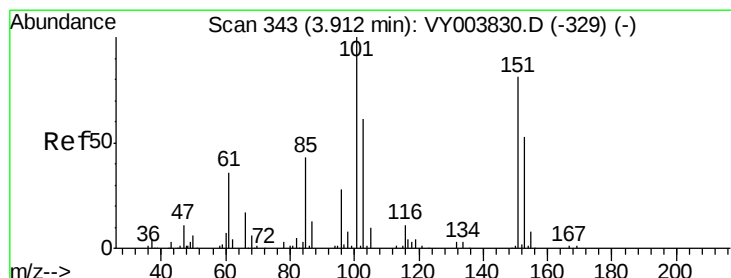
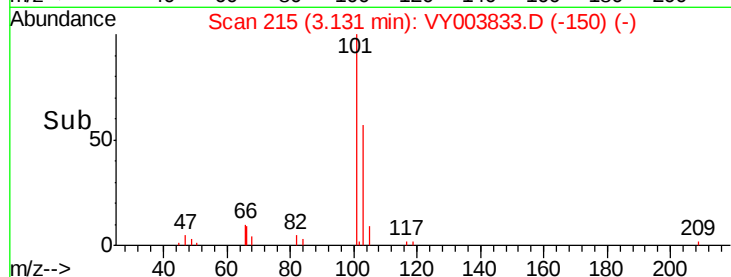
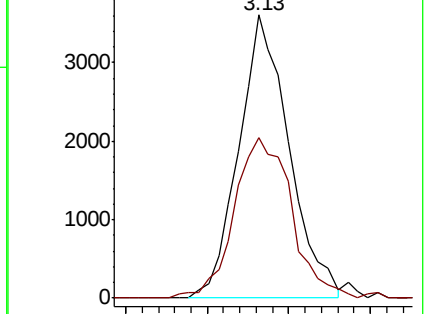
101 100

103 64.0 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

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

Concen: 1.575 ug/L

RT: 3.91 min Scan# 342

Delta R.T. -0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

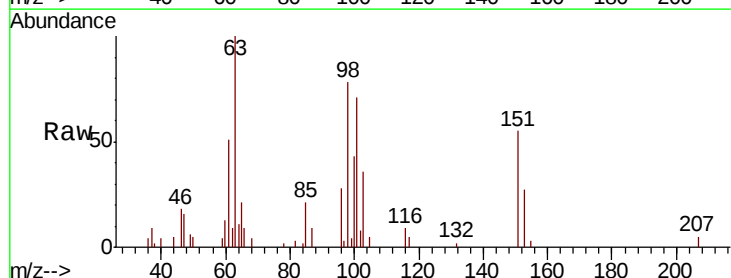
Tgt Ion:101 Resp: 5504

Ion Ratio Lower Upper

101 100

85 17.5 35.1 52.7#

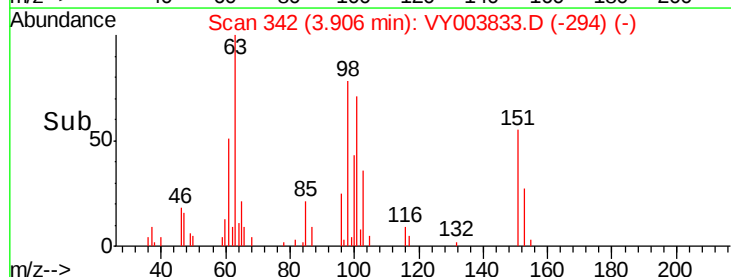
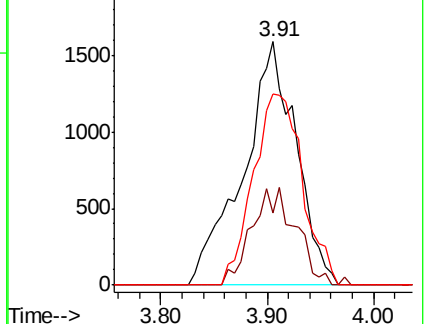
151 73.3 39.9 59.9#

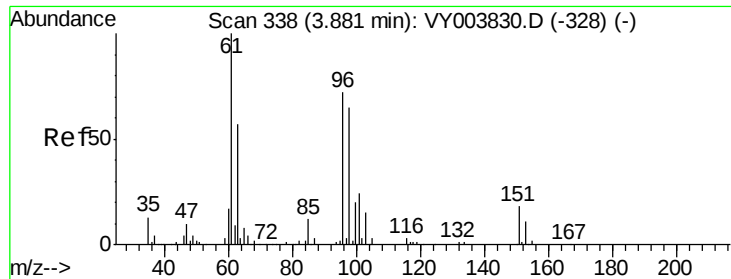


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VY0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 1.573 ug/L

RT: 3.88 min Scan# 338

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

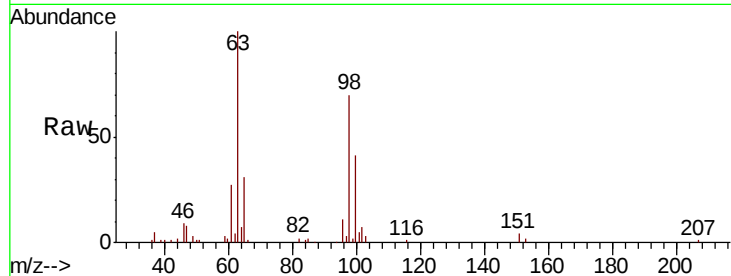
Tot Ion: 96 Resp: 5239

Ion Ratio Lower Upper

96 100

61 243.4 108.6 201.8#

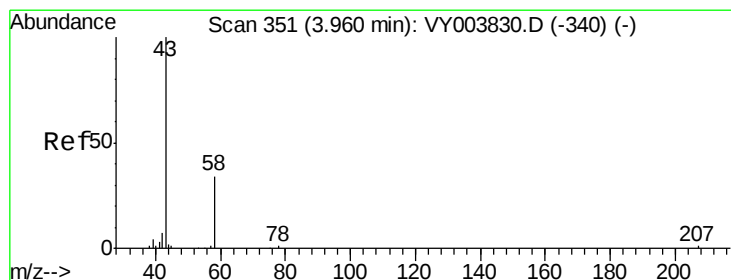
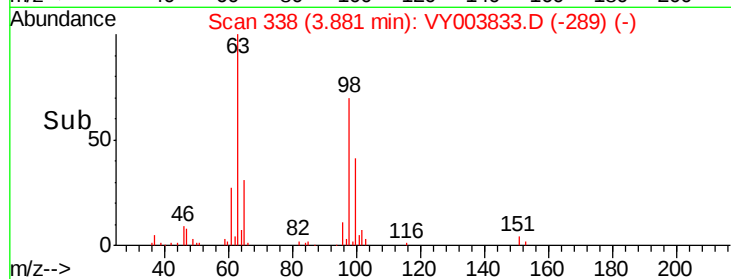
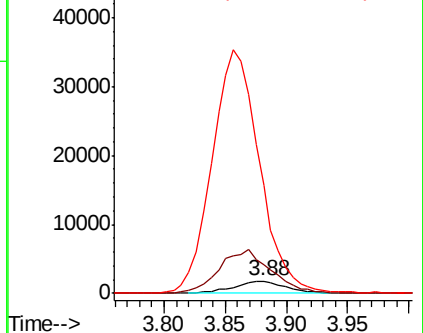
63 902.5 61.0 113.2#



Abundance Ion 96.00 (95.70 to 96.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

Ion 63.00 (62.70 to 63.70): VY0



#13

Acetone

Concen: 2.672 ug/L

RT: 3.95 min Scan# 350

Delta R.T. -0.01 min

Lab File: VY003833.D

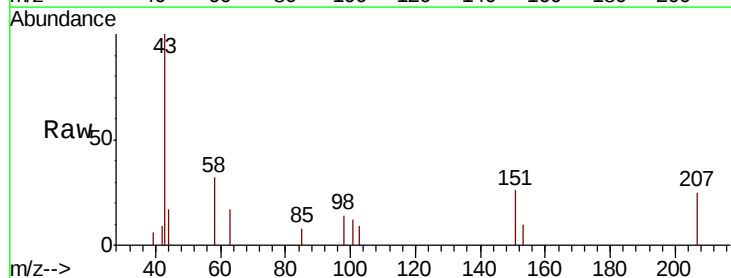
Acq: 22 Dec 2020 13:00

Tgt Ion: 43 Resp: 2589

Ion Ratio Lower Upper

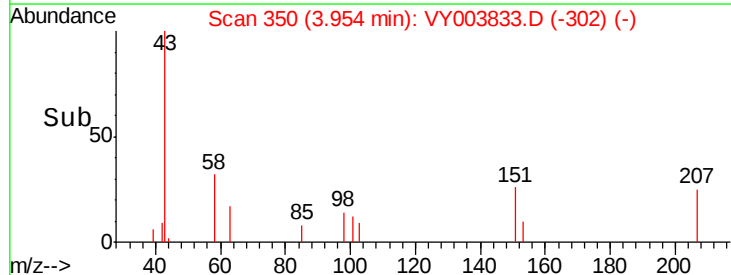
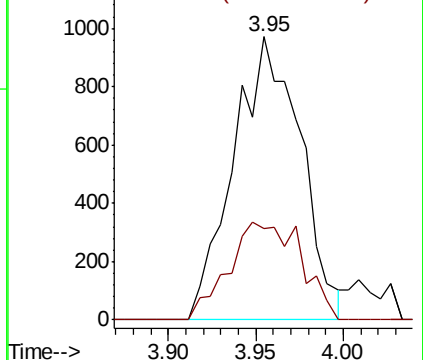
43 100

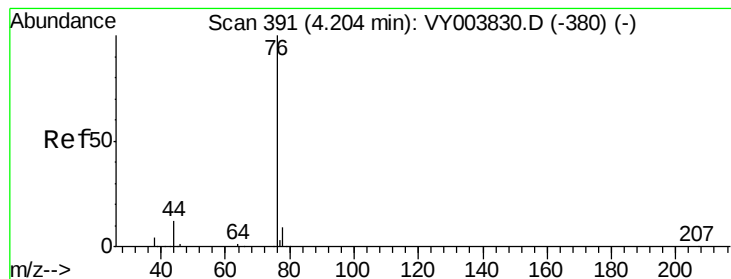
58 28.0 0.0 30.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#14

Carbon disulfide

Concen: 1.406 ug/L

RT: 4.20 min Scan# 390

Delta R.T. -0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

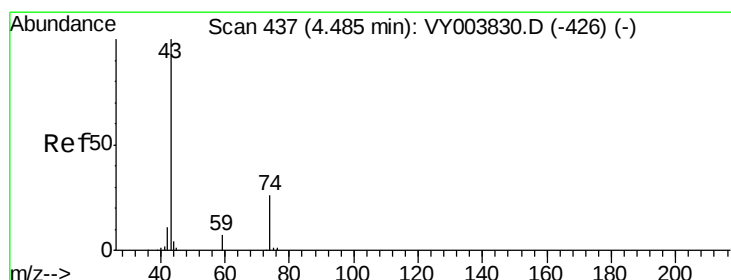
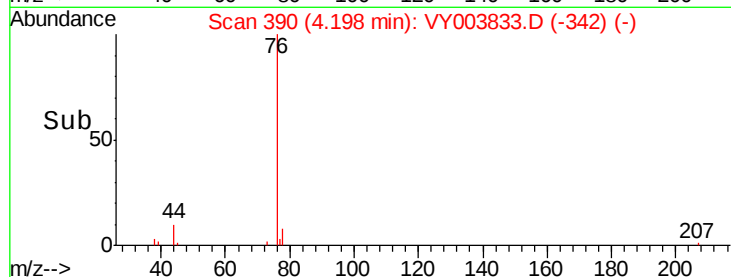
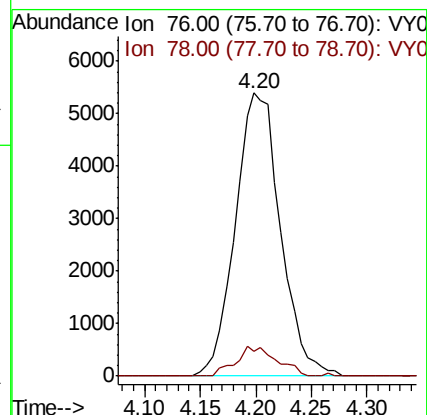
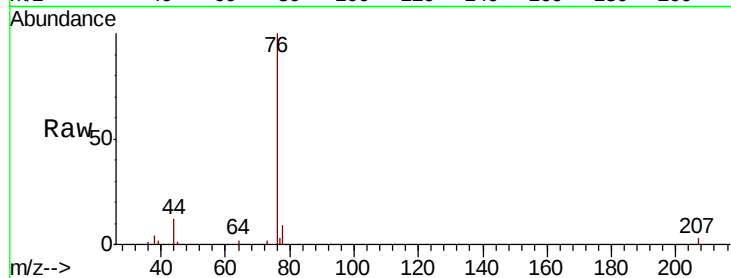
MDL-SOIL-07

Tot Ion: 76 Resp: 15149

Ion Ratio Lower Upper

76 100

78 8.8 7.8 11.8



#15

Methyl Acetate

Concen: 1.043 ug/L

RT: 4.48 min Scan# 437

Delta R.T. 0.00 min

Lab File: VY003833.D

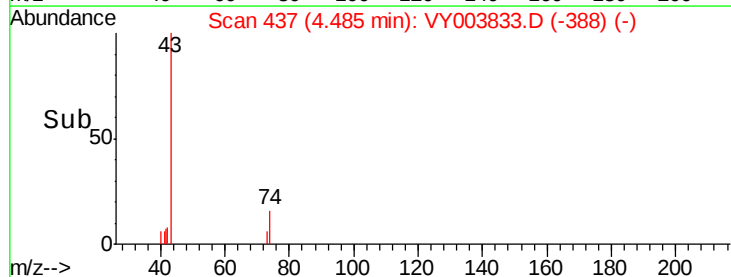
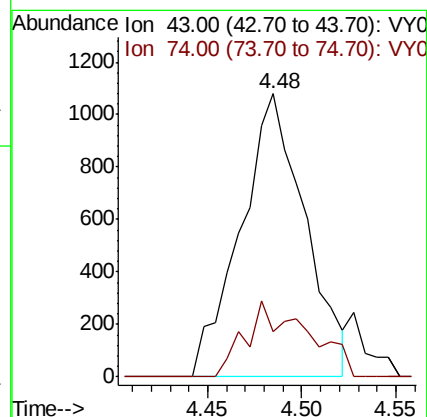
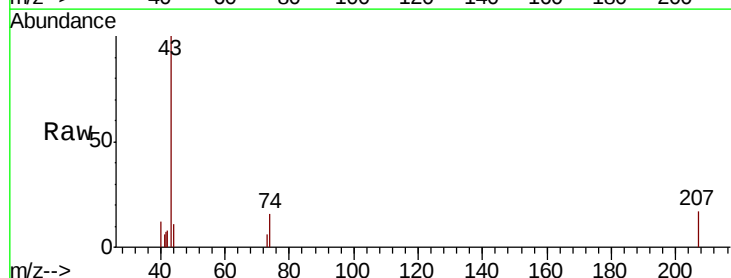
Acq: 22 Dec 2020 13:00

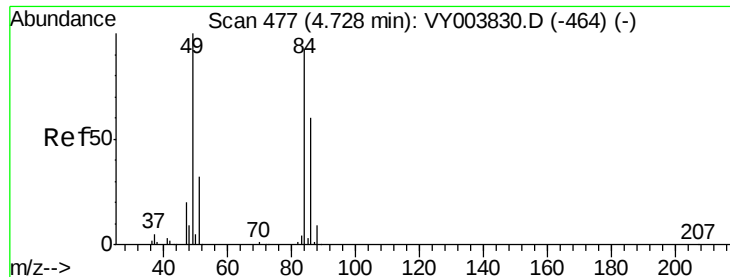
Tgt Ion: 43 Resp: 2561

Ion Ratio Lower Upper

43 100

74 11.7 13.4 20.2#

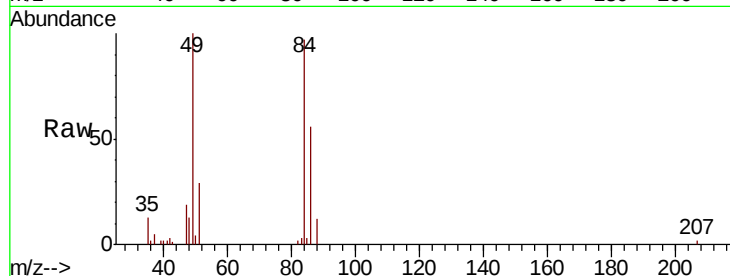




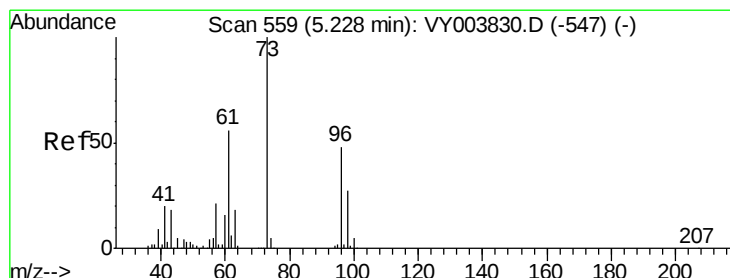
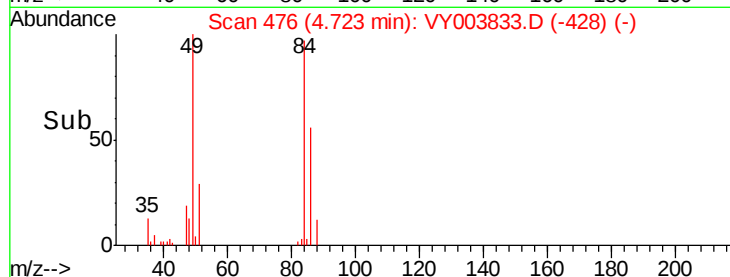
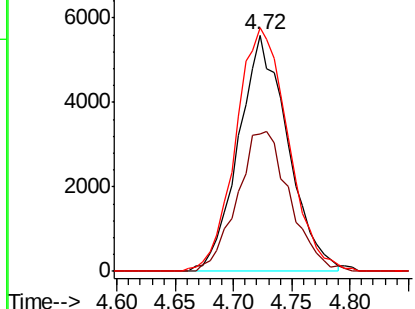
#16
Methvlene chloride
Concen: 3.369 ug/L
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion: 84 Resp: 16479
Ion Ratio Lower Upper
84 100
86 58.0 45.2 84.0
49 103.1 83.1 154.3

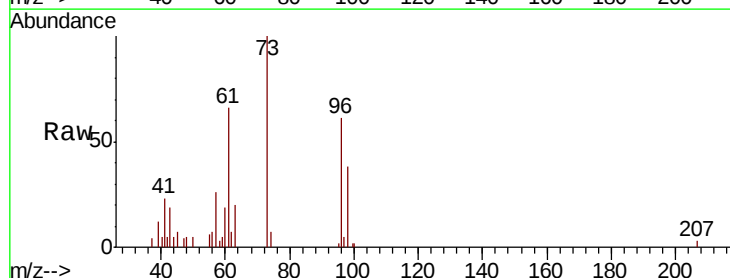


Abundance Ion 84.00 (83.70 to 84.70): VY0
Ion 86.00 (85.70 to 86.70): VY0
Ion 49.00 (48.70 to 49.70): VY0

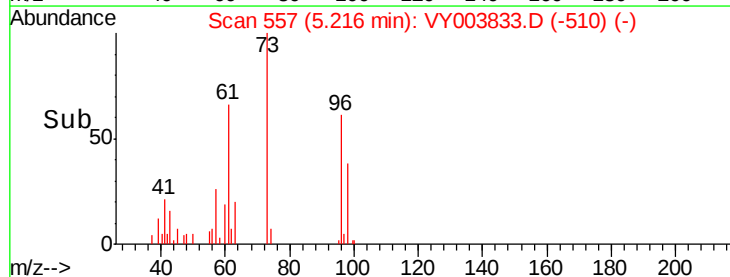
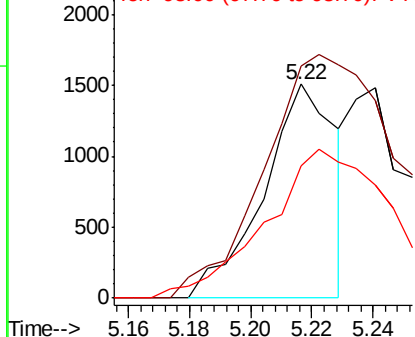


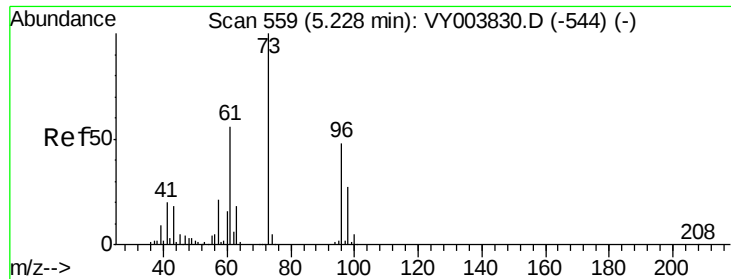
#17
trans-1,2-Dichloroethene
Concen: 0.668 ug/L
RT: 5.22 min Scan# 557
Delta R.T. -0.01 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Tgt Ion: 96 Resp: 2480
Ion Ratio Lower Upper
96 100
61 108.4 91.8 170.6
98 61.6 44.7 82.9



Abundance Ion 96.00 (95.70 to 96.70): VY0
Ion 61.00 (60.70 to 61.70): VY0
Ion 98.00 (97.70 to 98.70): VY0

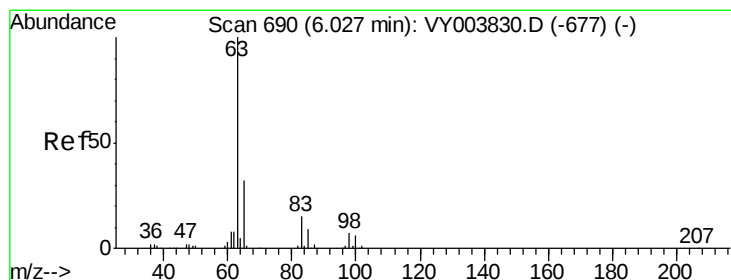
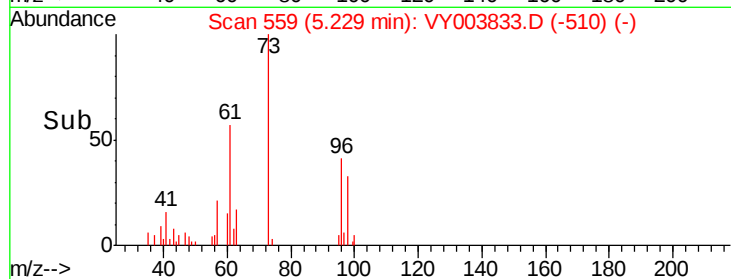
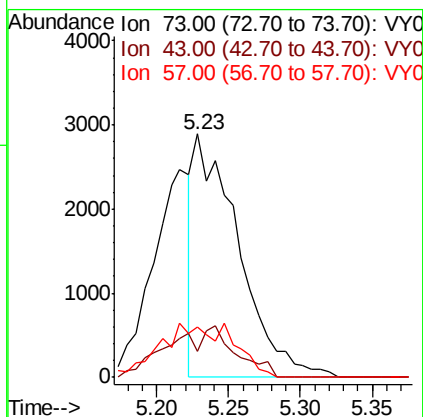
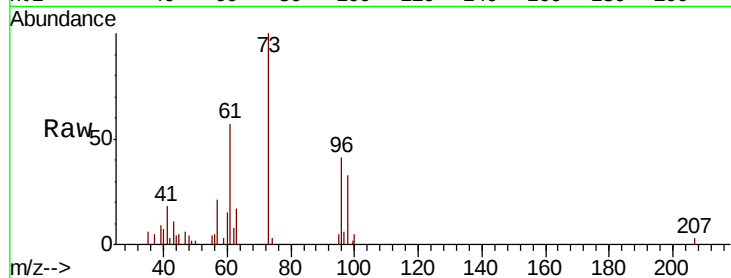




#18
Methvl tert-butvl Ether
Concen: 0.658 ug/L
RT: 5.23 min Scan# 559
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

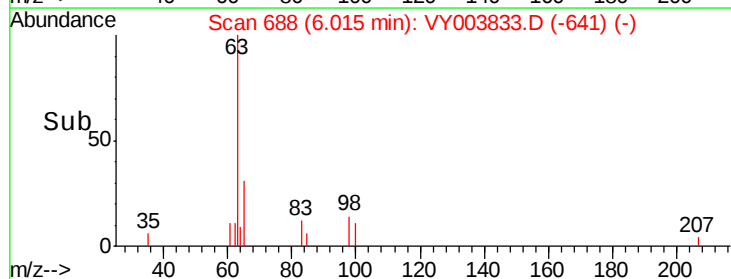
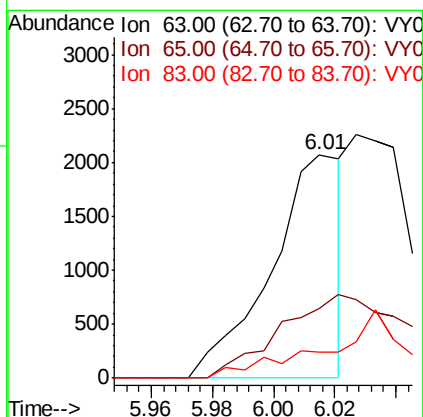
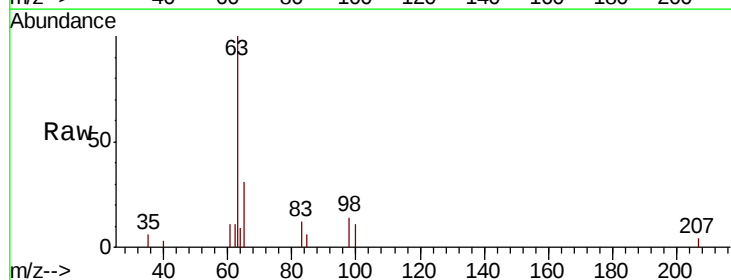
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

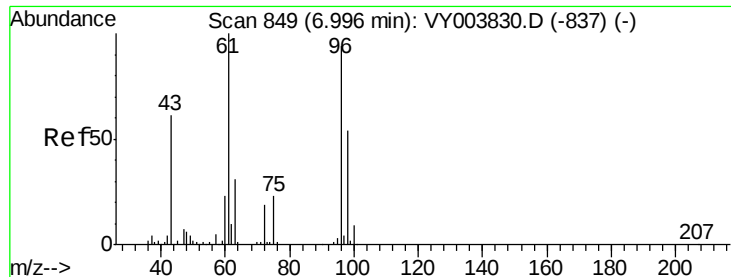
Tot Ion: 73 Resp: 6165
Ion Ratio Lower Upper
73 100
43 16.3 10.2 15.4#
57 0.0 18.3 27.5#



#19
1,1-Dichloroethane
Concen: 0.547 ug/L
RT: 6.01 min Scan# 688
Delta R.T. -0.01 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Tgt Ion: 63 Resp: 3376
Ion Ratio Lower Upper
63 100
65 31.4 20.4 38.0
83 11.9 8.6 16.0

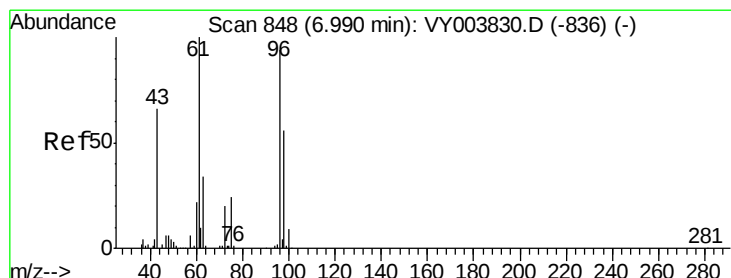
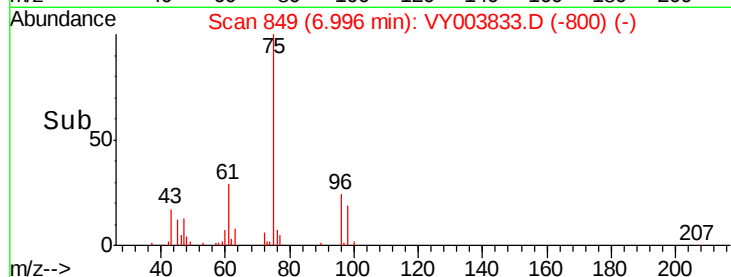
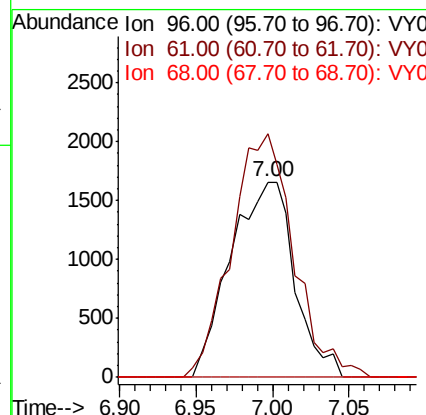
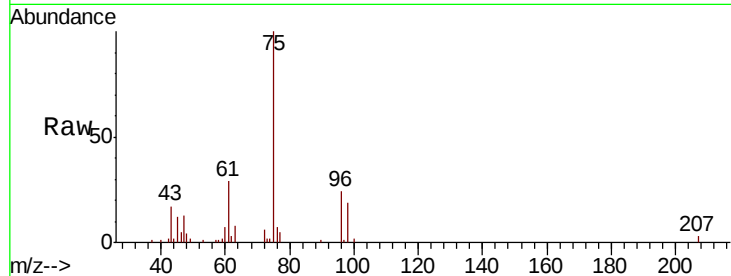




#20
 cis-1,2-Dichloroethene
 Concen: 1.213 ug/L
 RT: 7.00 min Scan# 849
 Delta R.T. 0.00 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

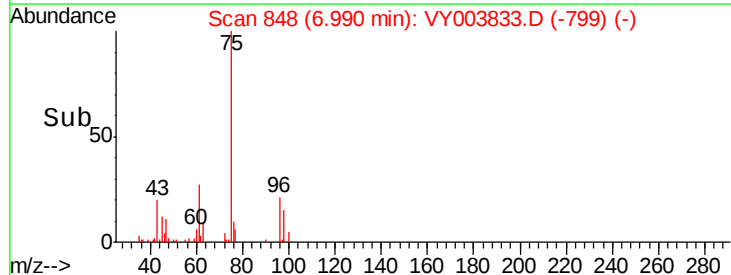
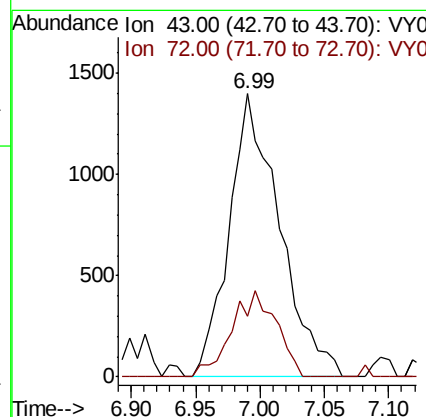
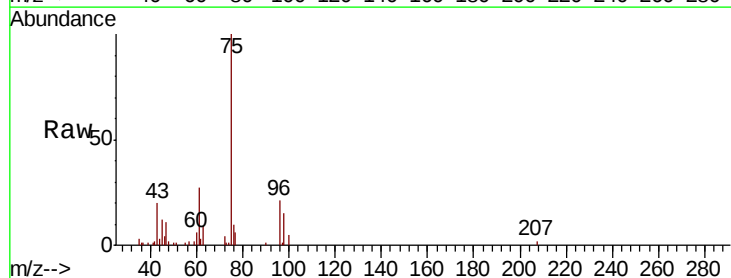
Instrument :
 MSVOA_Y
 ClientSampled :
 MDL-SOIL-07

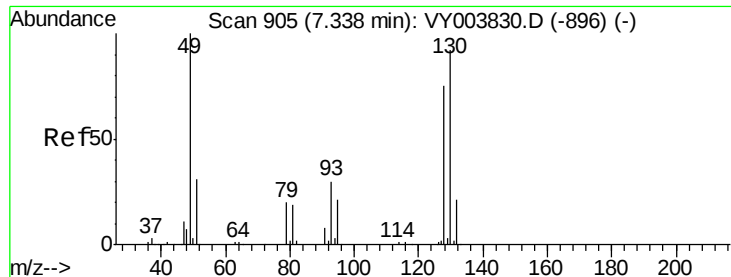
Tot Ion: 96 Resp: 4828
 Ion Ratio Lower Upper
 96 100
 61 124.8 96.3 178.9
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 2.223 ug/L
 RT: 6.99 min Scan# 848
 Delta R.T. 0.00 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

Tgt Ion: 43 Resp: 3808
 Ion Ratio Lower Upper
 43 100
 72 26.9 10.8 32.4





#23

Bromochloromethane

Concen: 1.325 ug/L

RT: 7.34 min Scan# 906

Delta R.T. 0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion:128 Resp: 2624

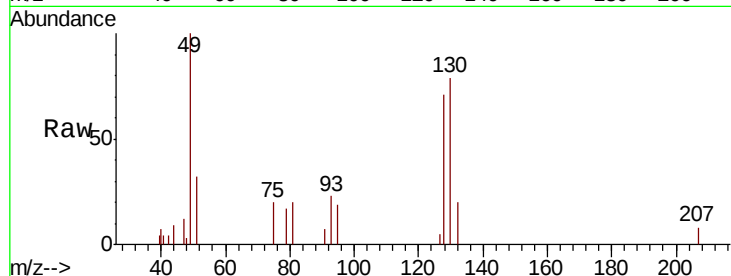
Ion Ratio Lower Upper

128 100

49 139.9 100.8 187.2

130 110.6 78.2 145.2

51 44.3 34.5 51.7

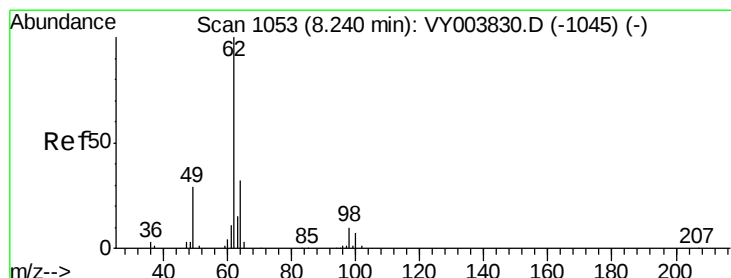
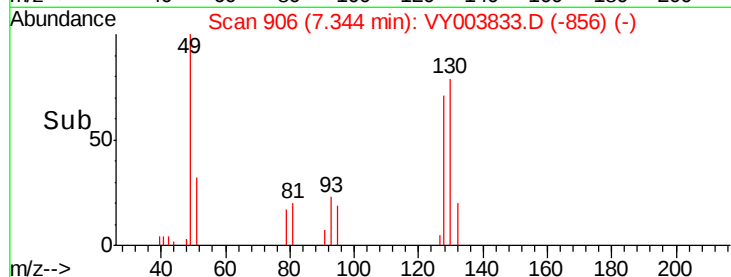
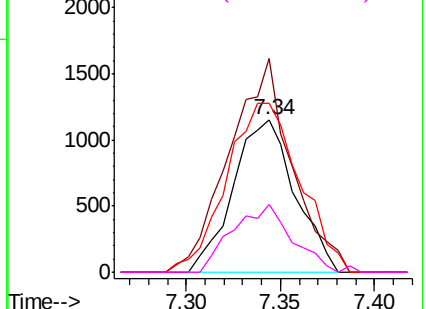


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VY0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VY0



#27

1,2-Dichloroethane

Concen: 1.224 ug/L

RT: 8.25 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VY003833.D

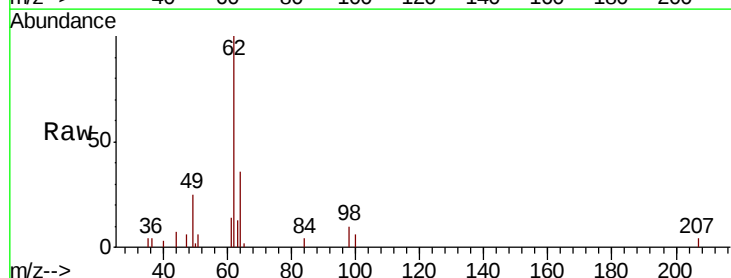
Acq: 22 Dec 2020 13:00

Tgt Ion: 62 Resp: 5173

Ion Ratio Lower Upper

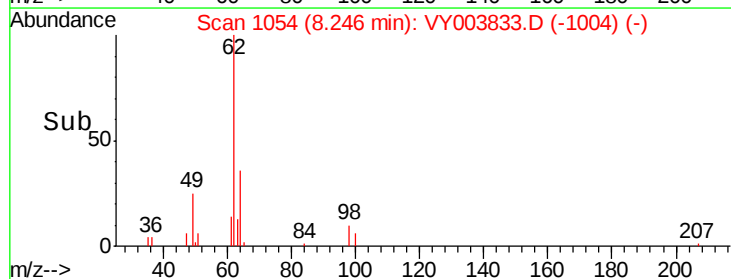
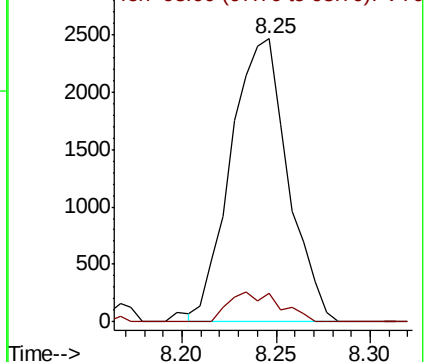
62 100

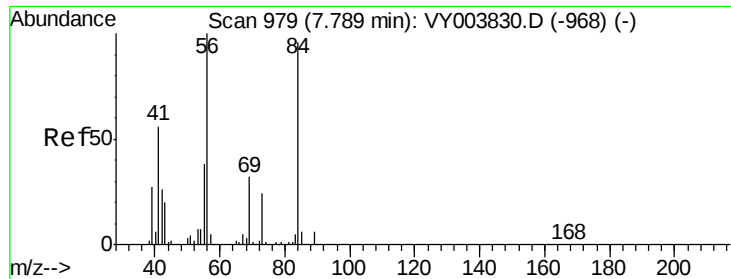
98 10.0 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VY0

Ion 98.00 (97.70 to 98.70): VY0

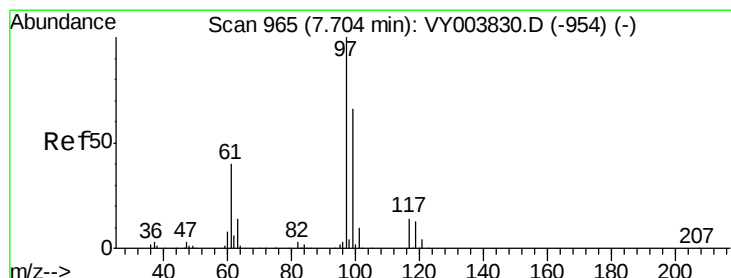
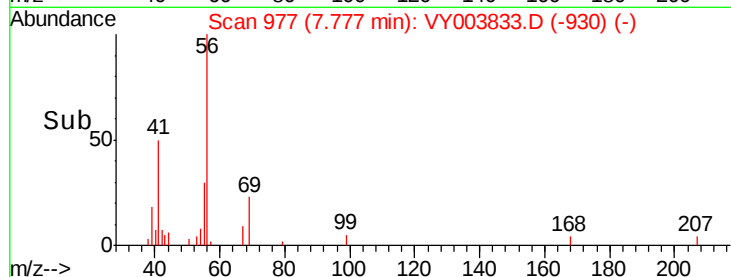
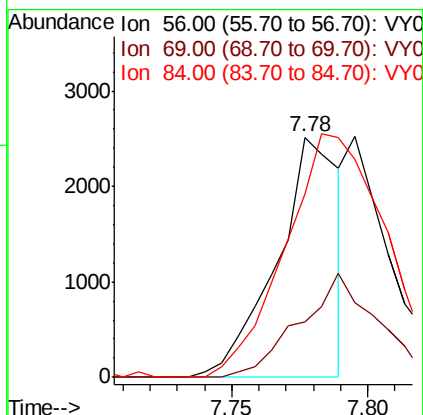
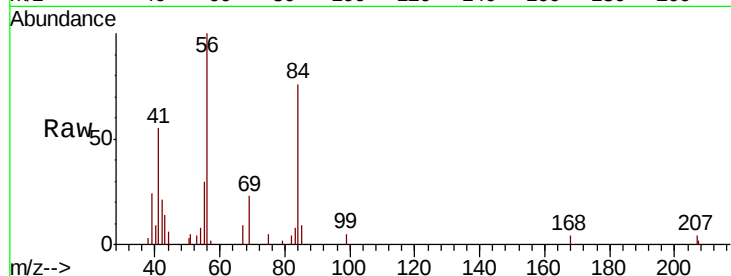




#29
Cvclohexane
Concen: 0.720 ug/L
RT: 7.78 min Scan# 977
Delta R.T. -0.01 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

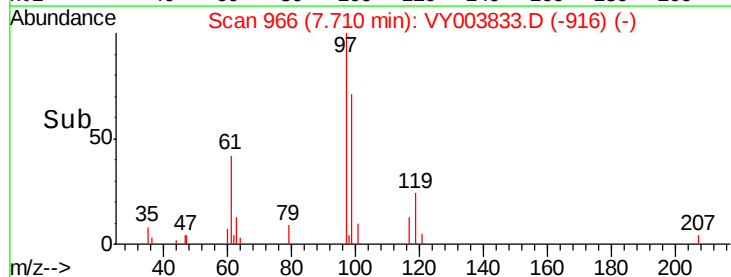
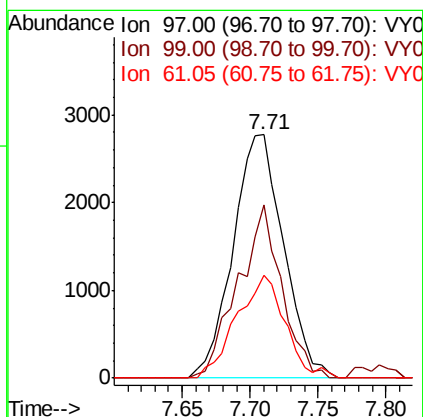
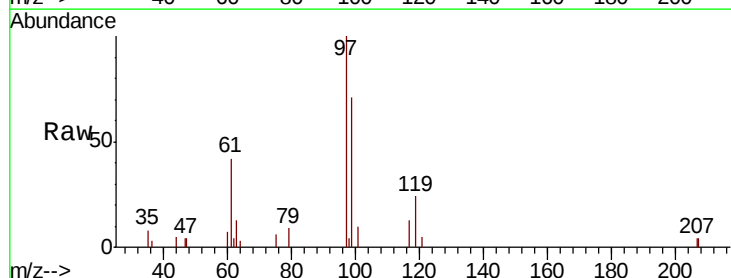
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

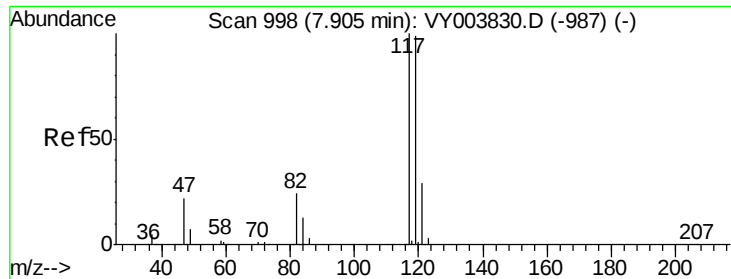
Tot Ion: 56 Resp: 3997
Ion Ratio Lower Upper
56 100
69 53.5 25.1 37.7#
84 166.2 70.6 105.8#



#30
1,1,1-Trichloroethane
Concen: 1.328 ug/L
RT: 7.71 min Scan# 966
Delta R.T. 0.01 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Tgt Ion: 97 Resp: 7189
Ion Ratio Lower Upper
97 100
99 61.4 51.0 76.4
61 39.9 34.6 51.8

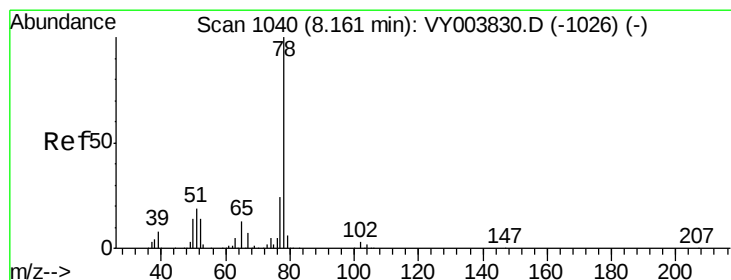
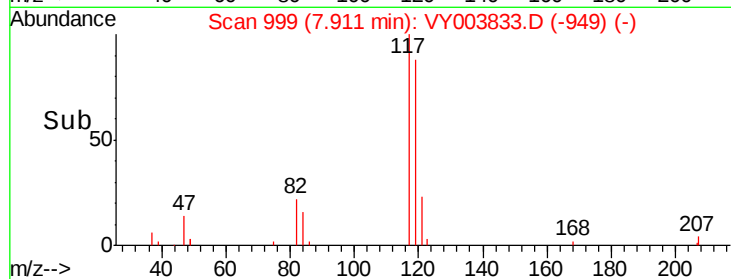
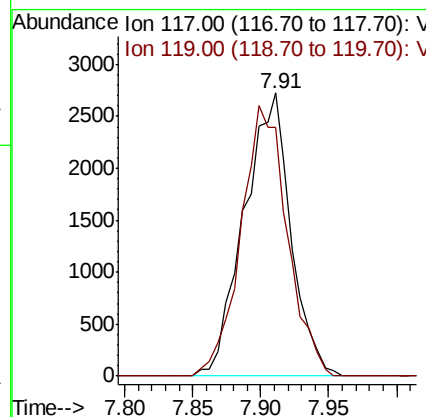
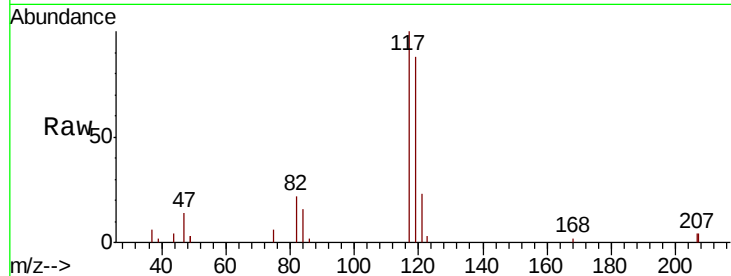




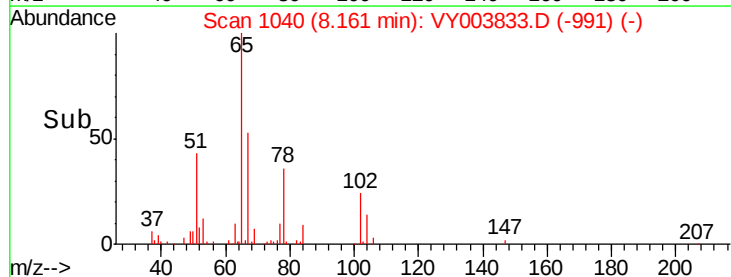
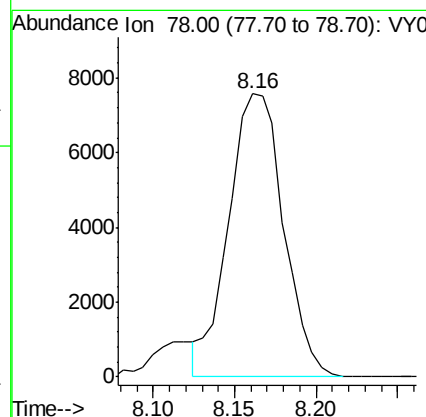
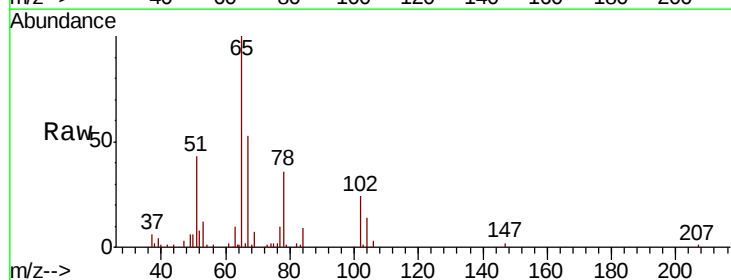
#31
Carbon tetrachloride
Concen: 1.336 ug/L
RT: 7.91 min Scan# 999
Delta R.T. 0.01 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

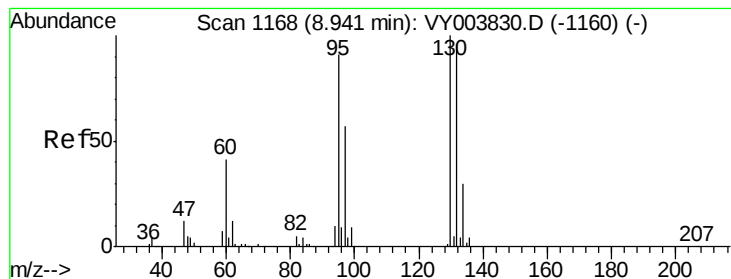
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion:117 Resp: 6549
Ion Ratio Lower Upper
117 100
119 94.7 72.6 109.0



#33
Benzene
Concen: 1.207 ug/L
RT: 8.16 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00
Tgt Ion: 78 Resp: 17764





#34

Trichloroethene

Concen: 1.211 ug/L

RT: 8.94 min Scan# 1168

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampled :

MDL-SOIL-07

Tot Ion: 95 Resp: 4796

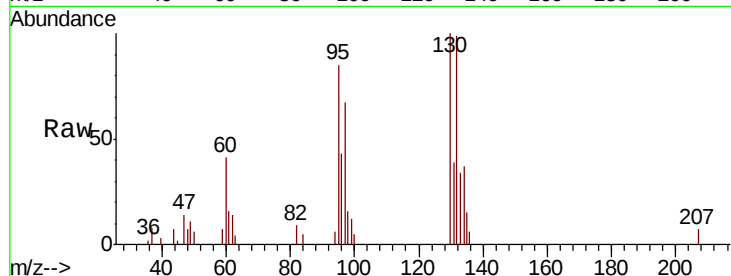
Ion Ratio Lower Upper

95 100

97 78.3 46.5 86.5

132 116.0 67.5 125.3

130 117.2 77.3 143.5



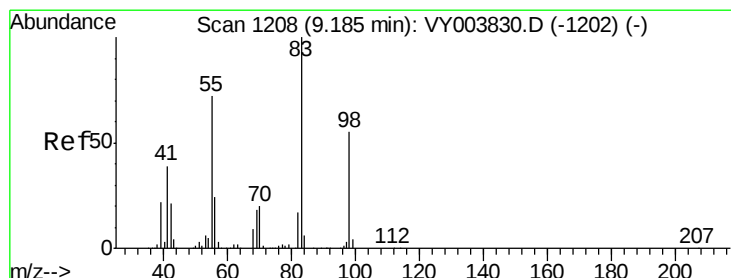
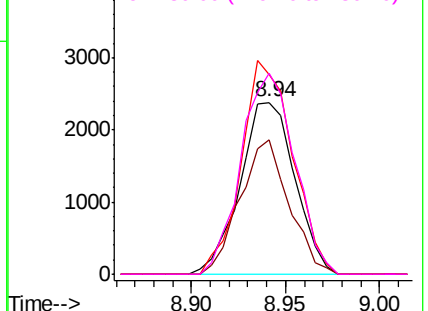
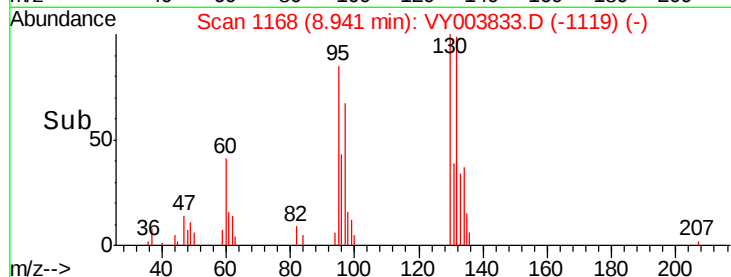
Abundance

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: 1.249 ug/L

RT: 9.18 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

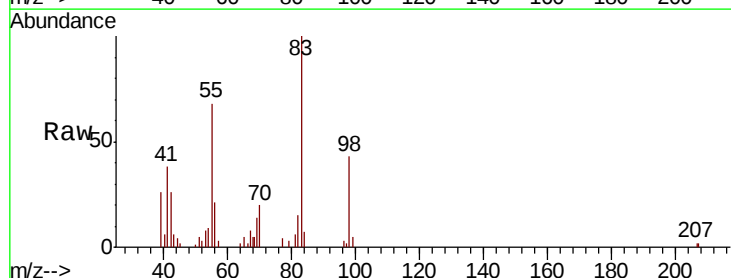
Tgt Ion: 83 Resp: 7793

Ion Ratio Lower Upper

83 100

55 71.2 55.6 83.4

98 51.6 38.6 58.0

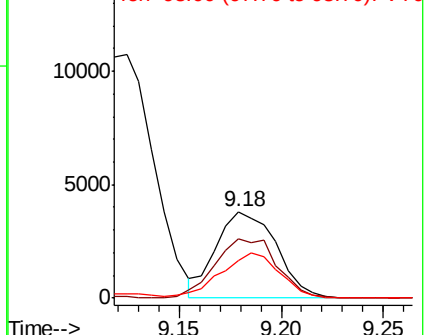
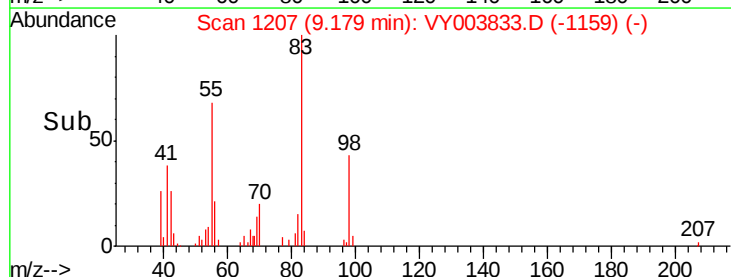


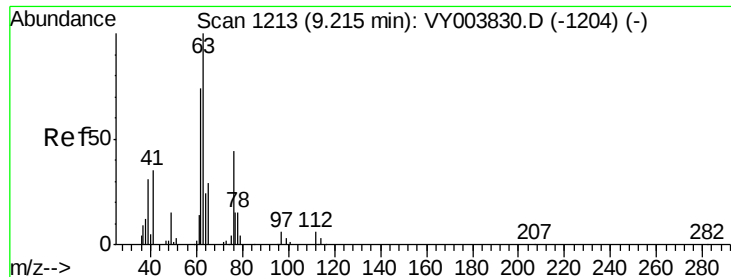
Abundance

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: 1.152 ug/L

RT: 9.22 min Scan# 1214

Delta R.T. 0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

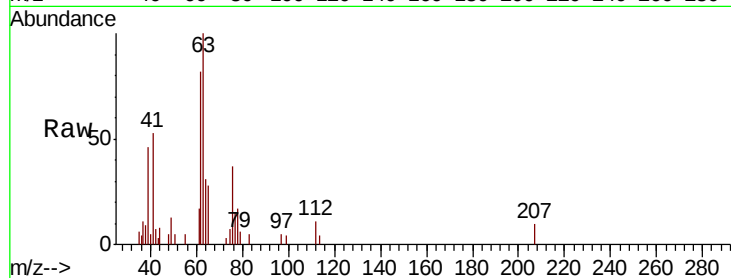
MDL-SOIL-07

Tot Ion: 63 Resp: 4236

Ion Ratio Lower Upper

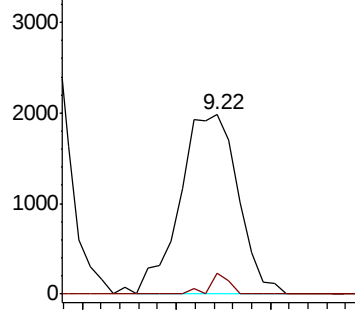
63 100

112 3.2 4.2 6.2#

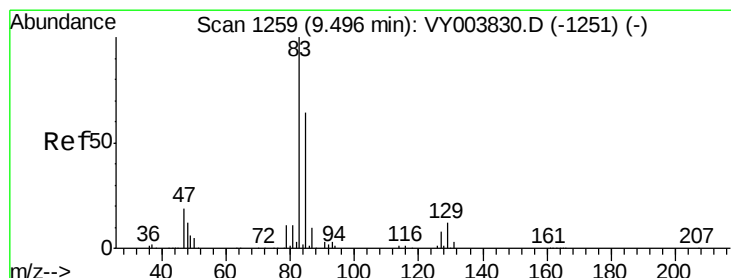
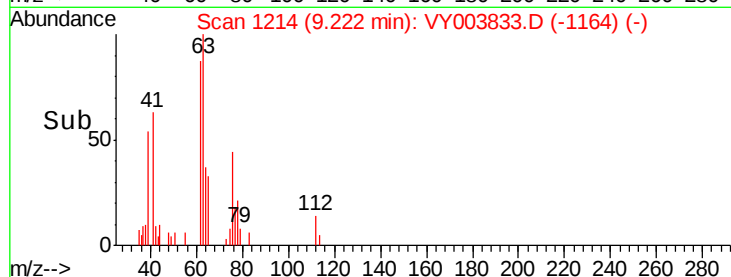


Abundance Ion 63.00 (62.70 to 63.70): VY0

Ion 112.00 (111.70 to 112.70): V



Time-->



#38

Bromodichloromethane

Concen: 1.158 ug/L

RT: 9.50 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

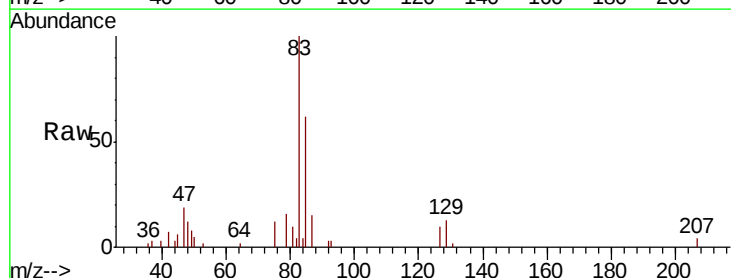
Tgt Ion: 83 Resp: 5445

Ion Ratio Lower Upper

83 100

85 62.0 39.3 73.1

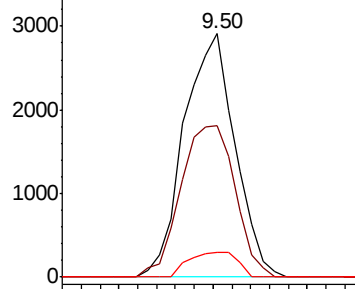
127 10.2 5.7 8.5#



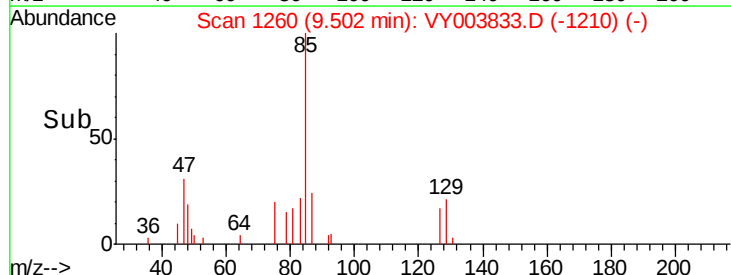
Abundance Ion 83.00 (82.70 to 83.70): VY0

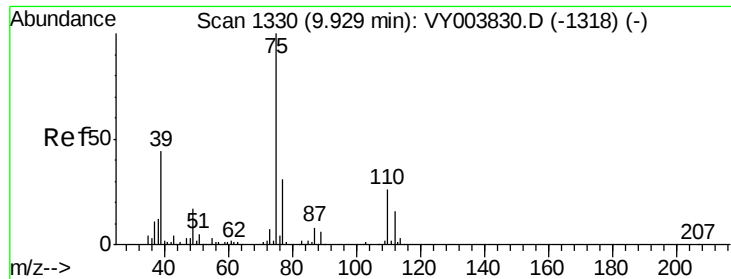
Ion 85.00 (84.70 to 85.70): VY0

Ion 127.00 (126.70 to 127.70): V



Time-->





#39

cis-1,3-Dichloropropene

Concen: 1.192 ug/L

RT: 9.93 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

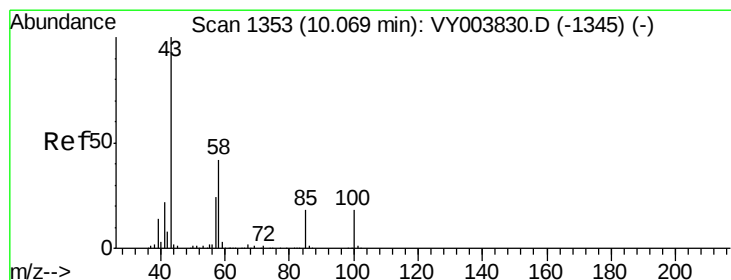
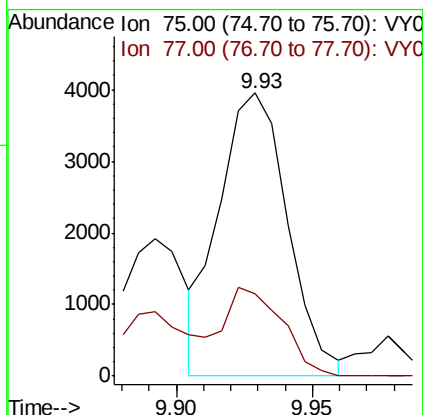
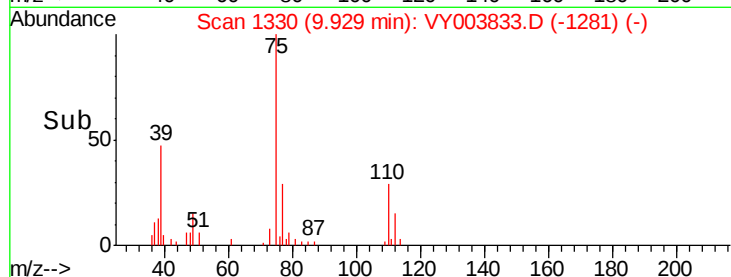
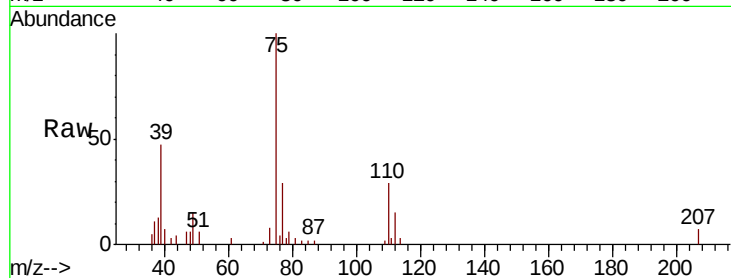
MDL-SOIL-07

Tot Ion: 75 Resp: 6911

Ion Ratio Lower Upper

75 100

77 29.3 23.2 43.2



#40

4-Methyl-2-pentanone

Concen: 2.118 ug/L

RT: 10.07 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

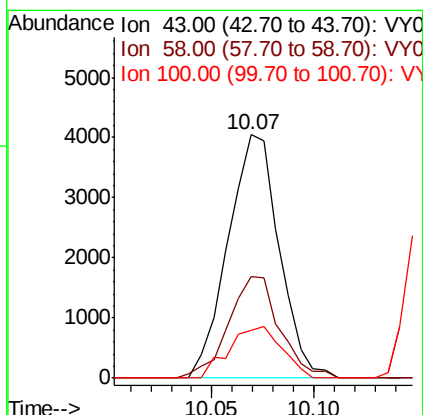
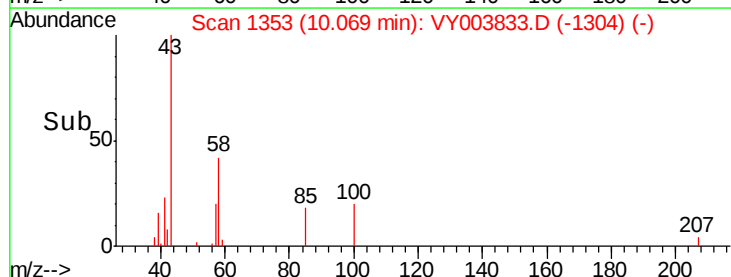
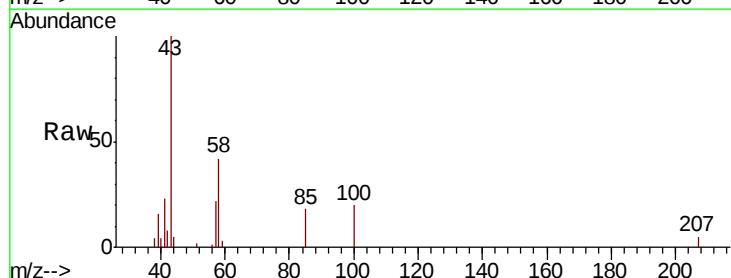
Tgt Ion: 43 Resp: 7049

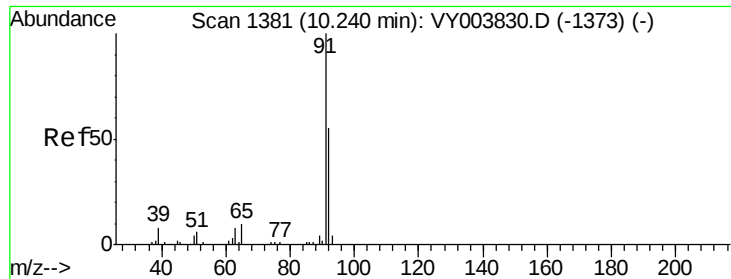
Ion Ratio Lower Upper

43 100

58 41.9 32.6 48.8

100 21.7 13.1 19.7#





#42

Toluene

Concen: 1.256 ug/L

RT: 10.24 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

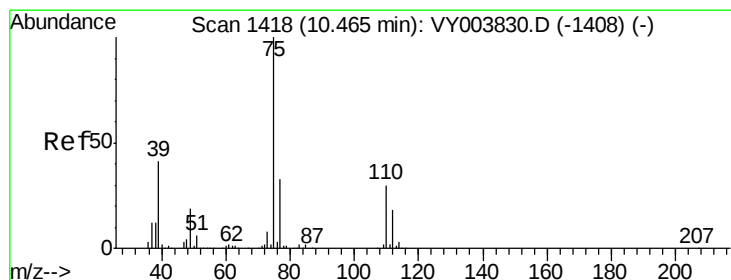
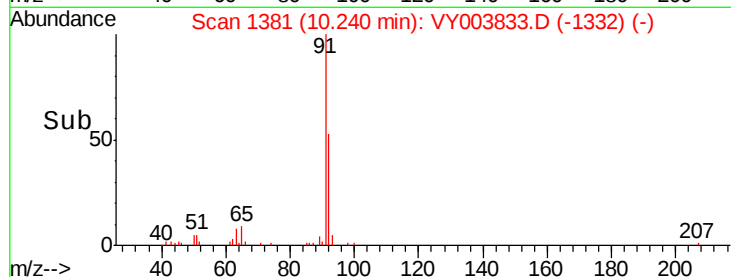
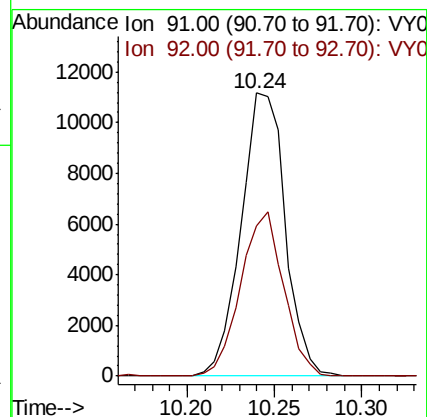
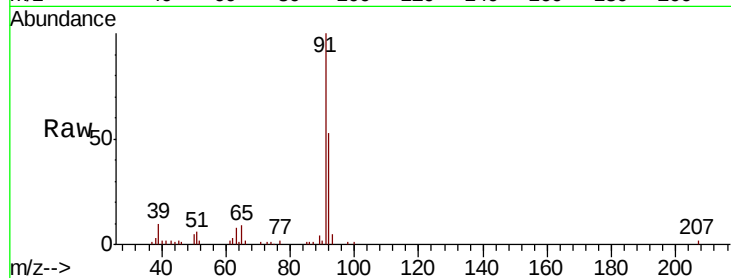
MDL-SOIL-07

Tot Ion: 91 Resp: 19684

Ion Ratio Lower Upper

91 100

92 53.2 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 1.597 ug/L

RT: 10.47 min Scan# 1419

Delta R.T. 0.01 min

Lab File: VY003833.D

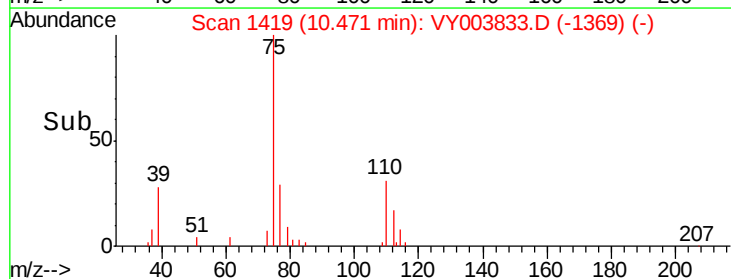
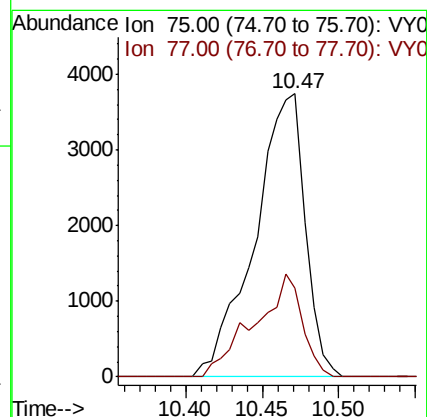
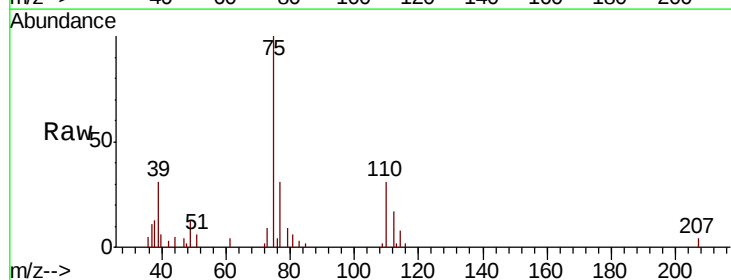
Acq: 22 Dec 2020 13:00

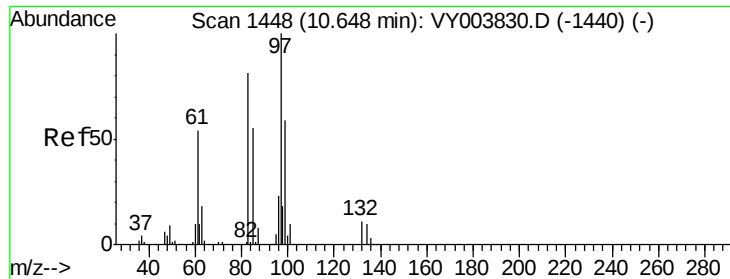
Tgt Ion: 75 Resp: 8627

Ion Ratio Lower Upper

75 100

77 31.5 24.7 45.9





#45

1,1,2-Trichloroethane

Concen: 1.147 ug/L

RT: 10.64 min Scan# 1447

Delta R.T. -0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

Tot Ion: 97 Resp: 3682

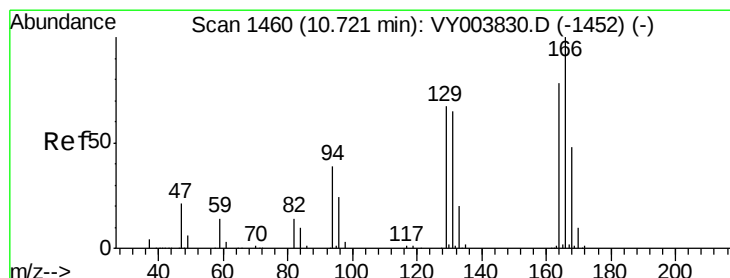
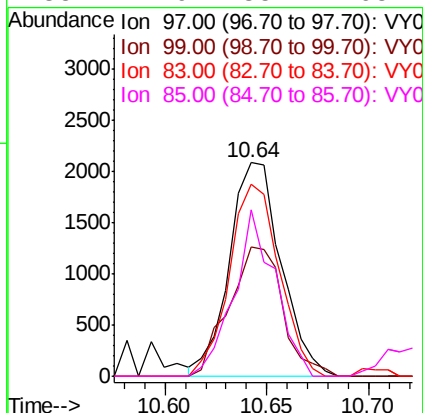
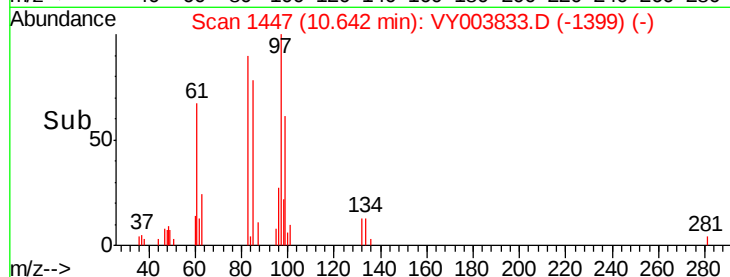
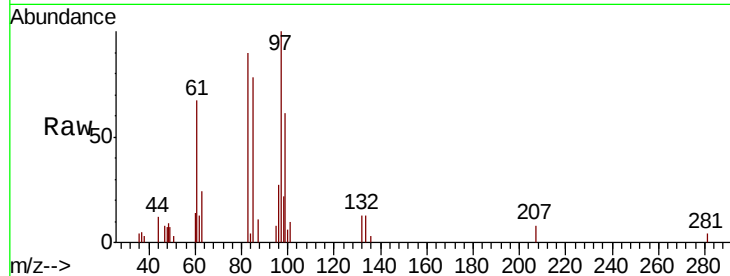
Ion Ratio Lower Upper

97 100

99 60.8 48.2 89.6

83 89.9 64.8 120.3

85 77.9 35.1 65.1#



#46

Tetrachloroethene

Concen: 1.423 ug/L

RT: 10.72 min Scan# 1459

Delta R.T. -0.01 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Tgt Ion: 164 Resp: 4528

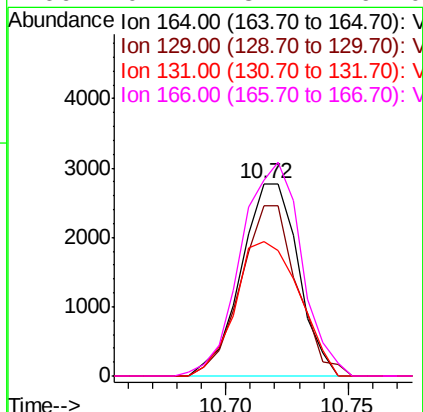
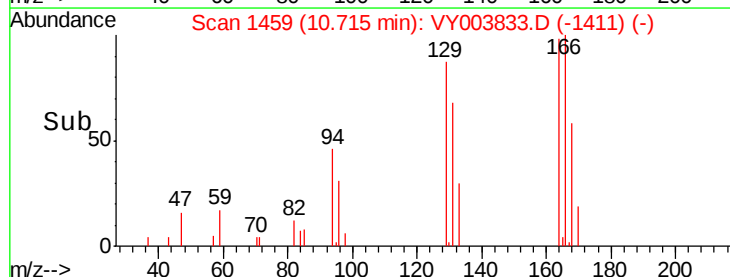
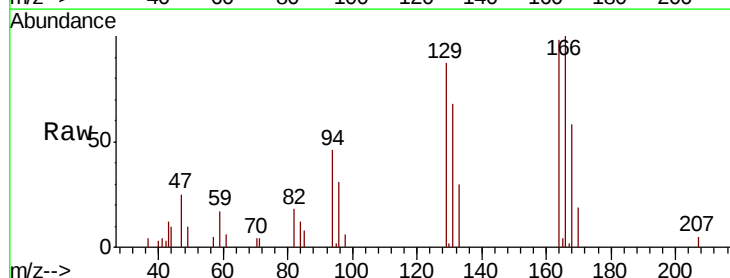
Ion Ratio Lower Upper

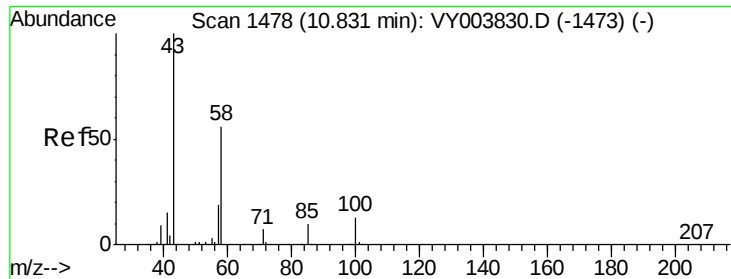
164 100

129 88.6 53.4 99.2

131 70.0 60.8 112.8

166 102.2 87.2 162.0

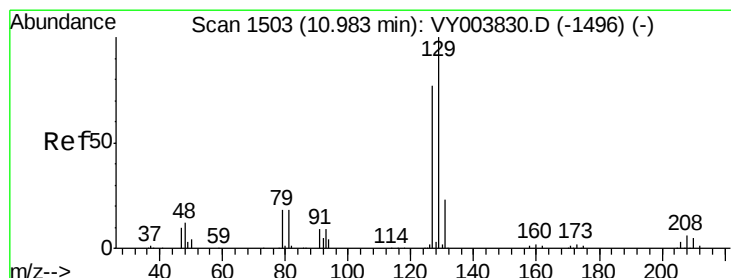
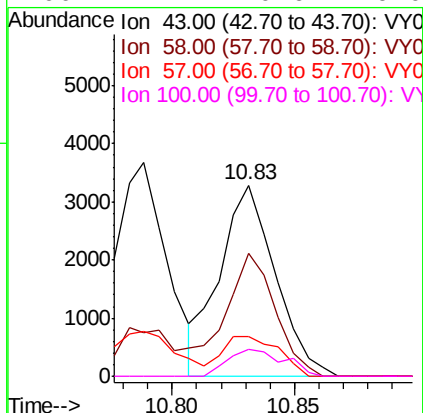
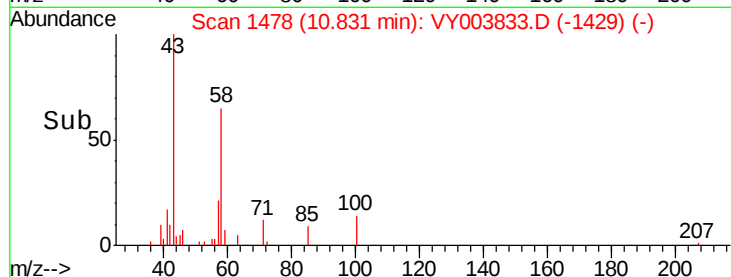
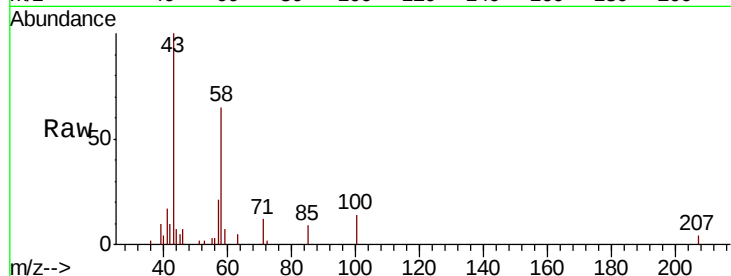




#48
2-Hexanone
Concen: 2.238 ug/L
RT: 10.83 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

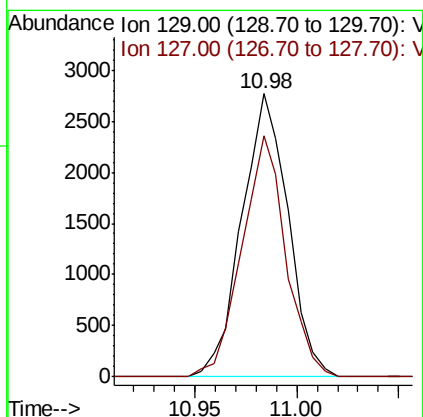
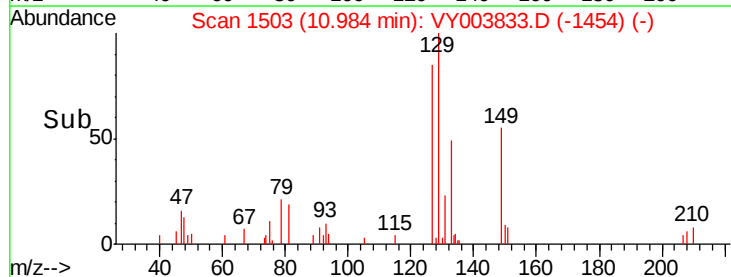
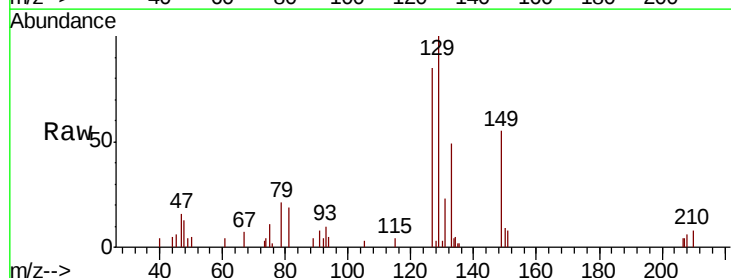
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

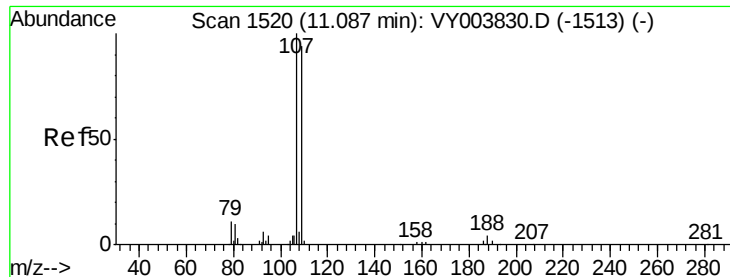
Tot Ion: 43 Resp: 5194
Ion Ratio Lower Upper
43 100
58 61.0 44.3 66.5
57 20.9 12.6 19.0#
100 14.2 10.6 16.0



#49
Dibromochloromethane
Concen: 1.175 ug/L
RT: 10.98 min Scan# 1503
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Tgt Ion: 129 Resp: 4347
Ion Ratio Lower Upper
129 100
127 85.4 48.0 89.2

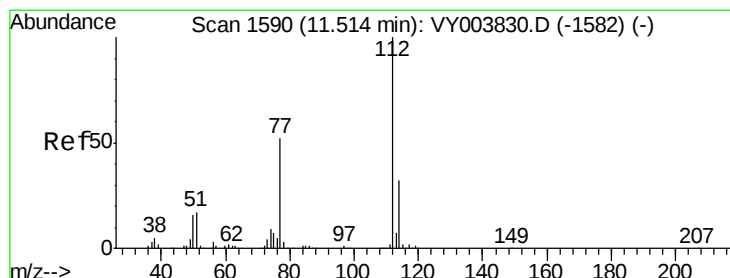
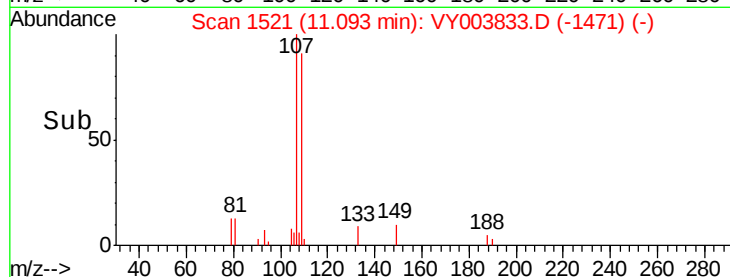
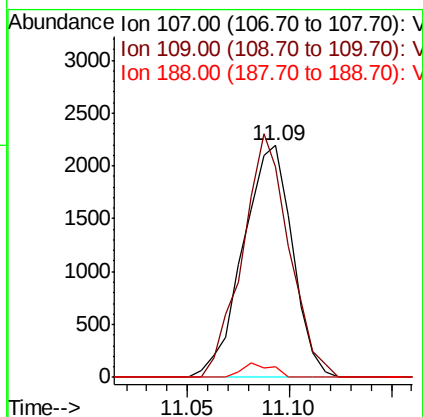
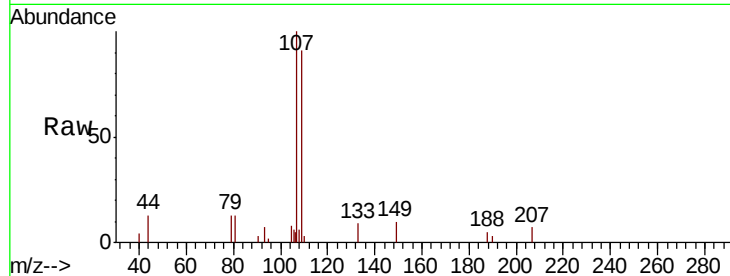




#50
 1,2-Dibromoethane
 Concen: 1.192 ug/L
 RT: 11.09 min Scan# 1521
 Delta R.T. 0.01 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

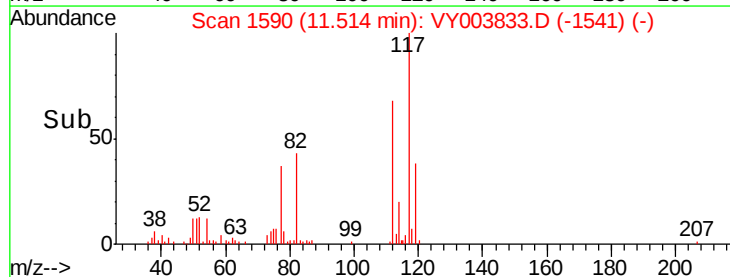
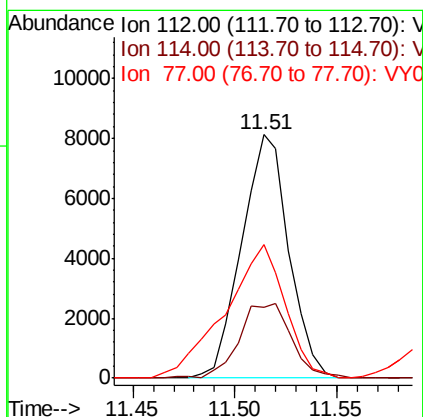
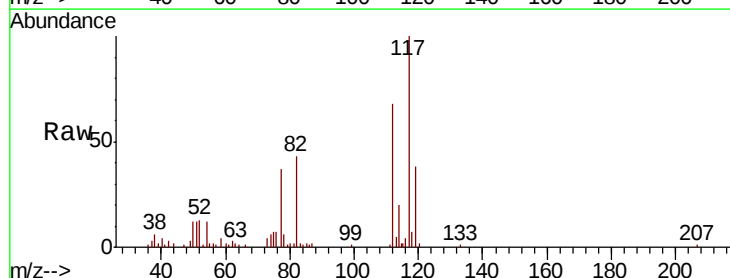
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

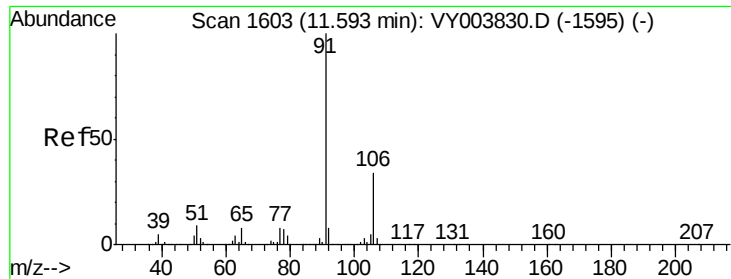
Tot Ion:107 Resp: 3693
 Ion Ratio Lower Upper
 107 100
 109 90.7 61.9 114.9
 188 4.7 2.1 3.1#



#51
 Chlorobenzene
 Concen: 1.262 ug/L
 RT: 11.51 min Scan# 1590
 Delta R.T. 0.00 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

Tgt Ion:112 Resp: 13075
 Ion Ratio Lower Upper
 112 100
 114 28.9 22.0 40.8
 77 54.9 38.4 57.6





#52

Ethylbenzene

Concen: 1.222 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

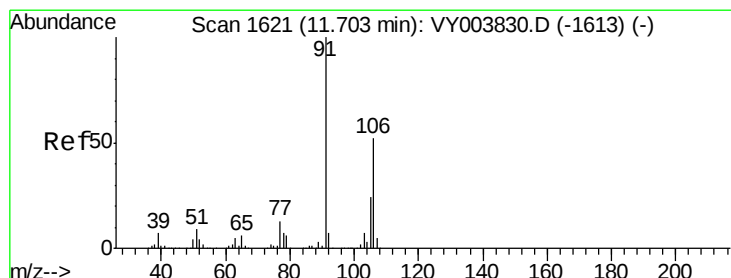
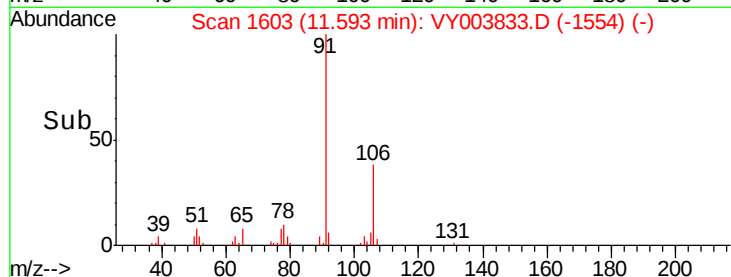
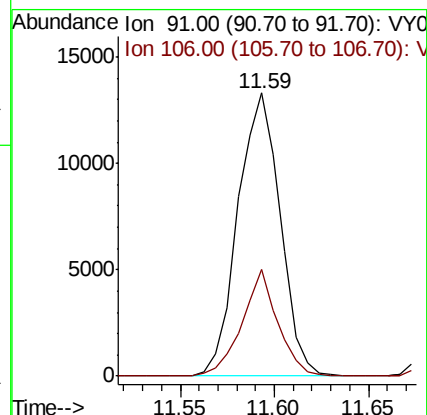
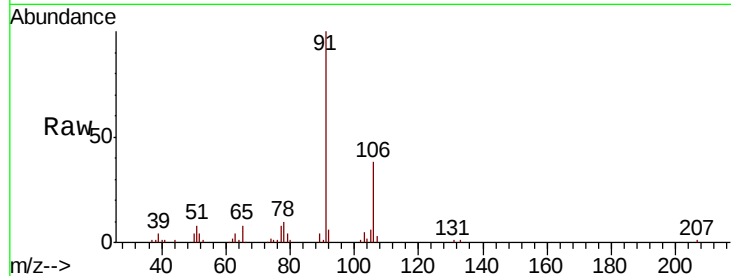
MDL-SOIL-07

Tot Ion: 91 Resp: 20662

Ion Ratio Lower Upper

91 100

106 37.9 23.7 43.9



#53

m,p-Xylene

Concen: 1.221 ug/L

RT: 11.70 min Scan# 1620

Delta R.T. -0.01 min

Lab File: VY003833.D

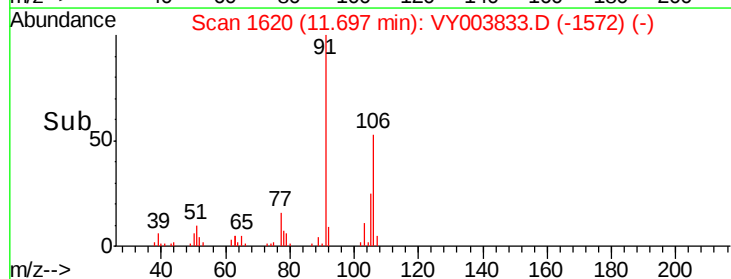
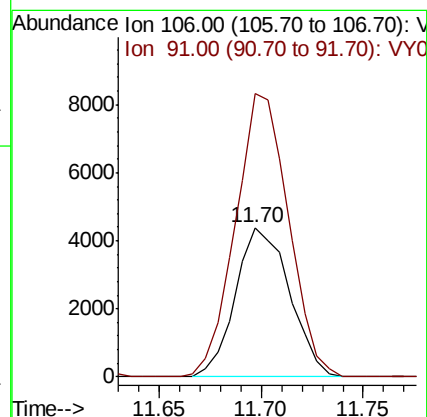
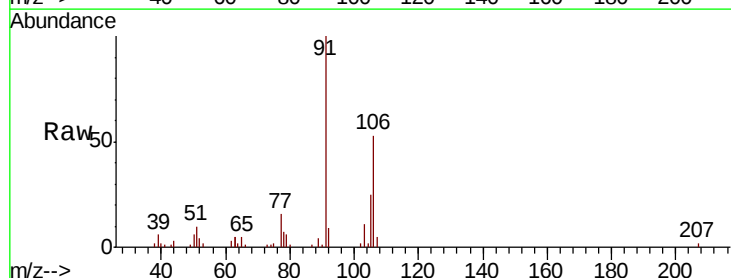
Acq: 22 Dec 2020 13:00

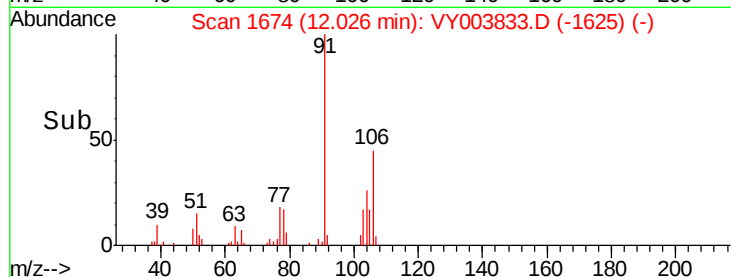
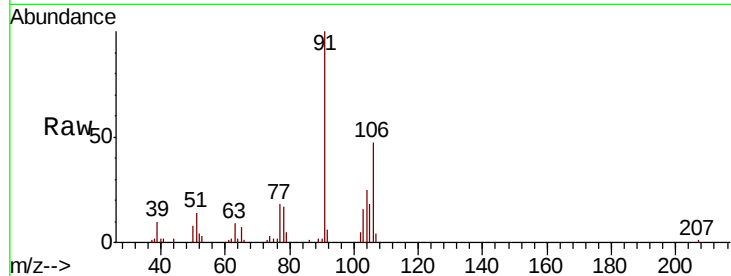
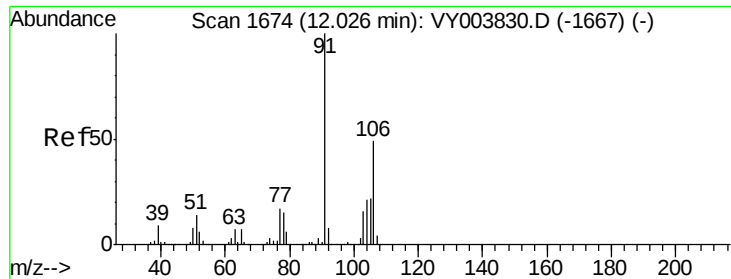
Tgt Ion: 106 Resp: 8074

Ion Ratio Lower Upper

106 100

91 189.7 132.7 246.5

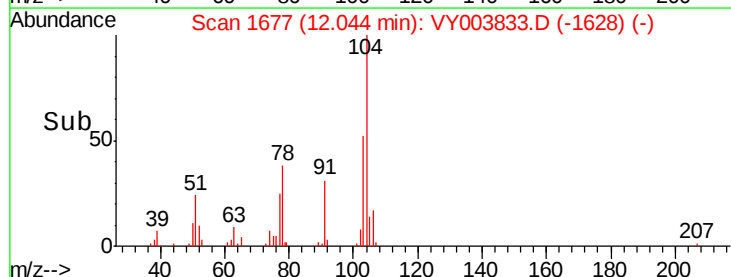
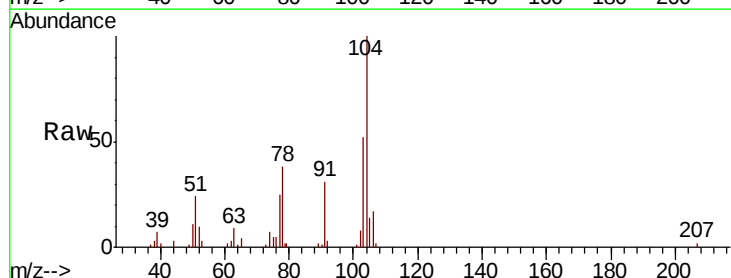
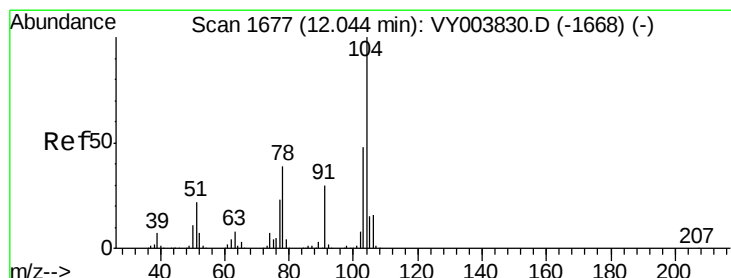
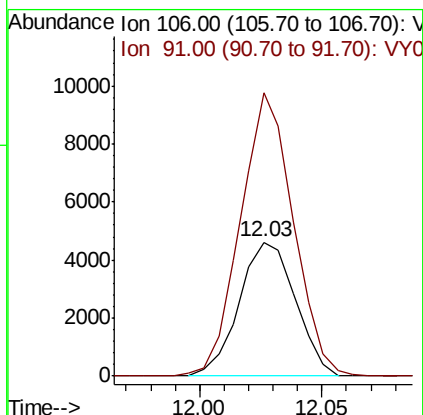




#54
o-Xylene
Concen: 1.164 ug/L
RT: 12.03 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

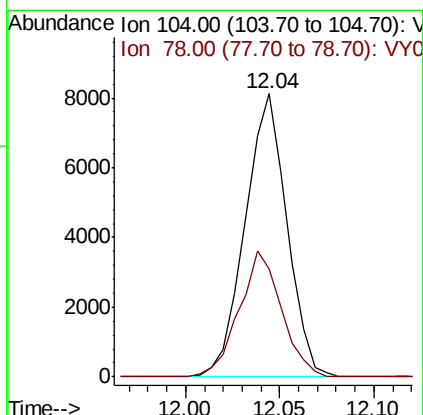
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

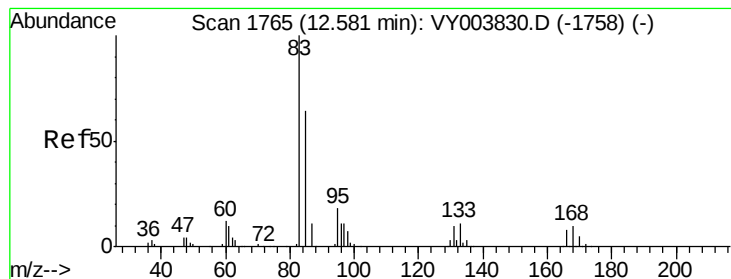
Tot Ion:106 Resp: 7353
Ion Ratio Lower Upper
106 100
91 211.8 141.7 263.1



#55
Styrene
Concen: 1.156 ug/L
RT: 12.04 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Tgt Ion:104 Resp: 12476
Ion Ratio Lower Upper
104 100
78 38.3 28.1 52.1





#57

1,1,2,2-Tetrachloroethane

Concen: 1.480 ug/L

RT: 12.58 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

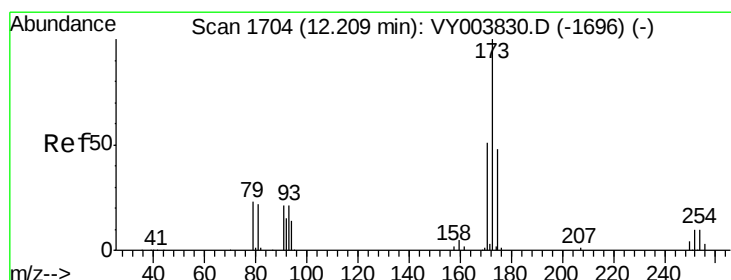
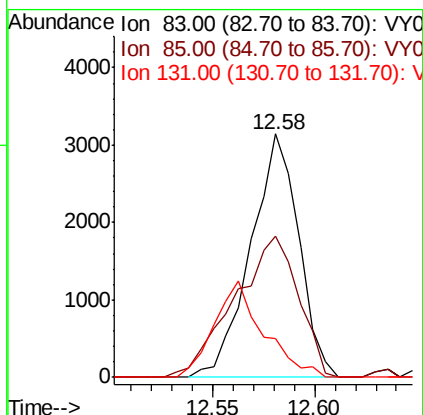
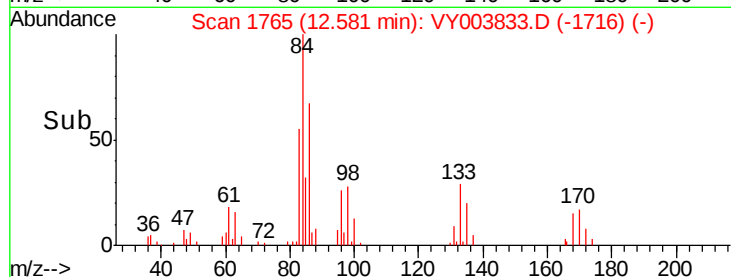
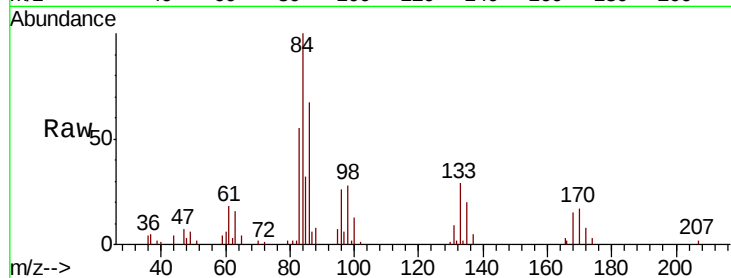
Tot Ion: 83 Resp: 5155

Ion Ratio Lower Upper

83 100

85 57.8 46.4 86.2

131 15.9 8.0 12.0#



#59

Bromoform

Concen: 1.248 ug/L

RT: 12.21 min Scan# 1704

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

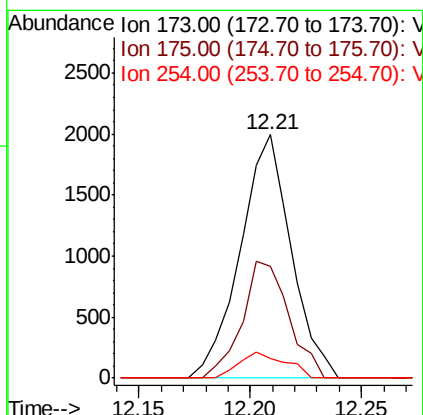
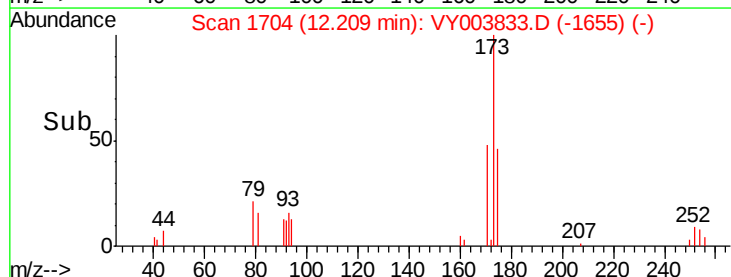
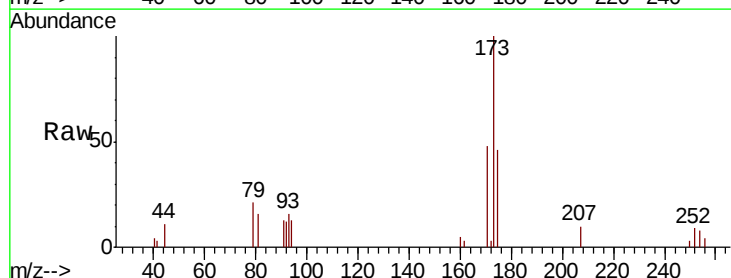
Tgt Ion: 173 Resp: 3171

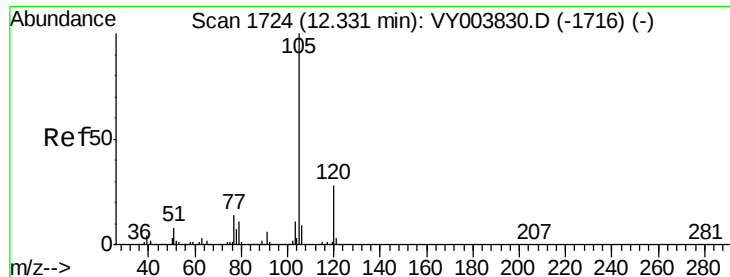
Ion Ratio Lower Upper

173 100

175 43.9 41.2 61.8

254 9.8 3.2 4.8#





#60

Isopropylbenzene

Concen: 1.147 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

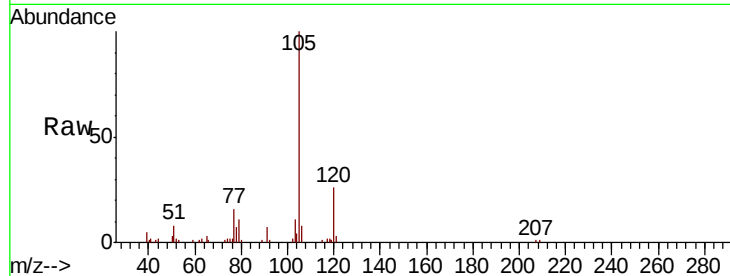
Tot Ion:105 Resp: 19016

Ion Ratio Lower Upper

105 100

120 27.9 22.6 33.8

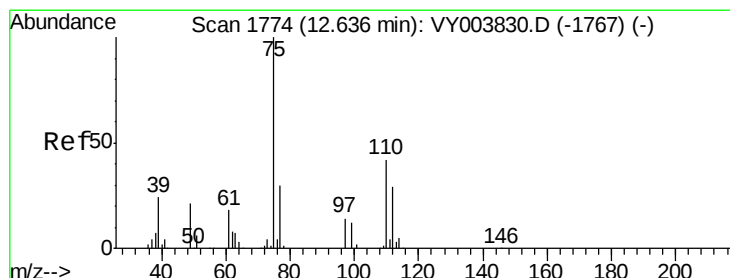
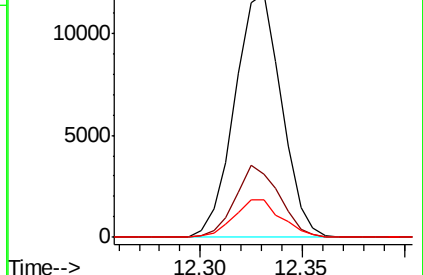
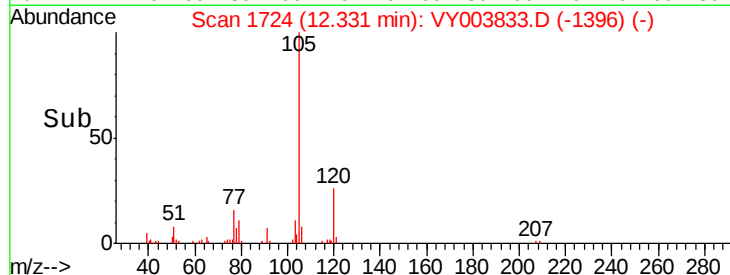
77 15.8 11.9 17.9



Abundance Ion 105.00 (104.70 to 105.70): VY003833.D (-1716) (-)

Ion 120.00 (119.70 to 120.70): VY003833.D (-1716) (-)

Ion 77.00 (76.70 to 77.70): VY003833.D (-1716) (-)



#61

1,2,3-Trichloropropane

Concen: 1.251 ug/L

RT: 12.64 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

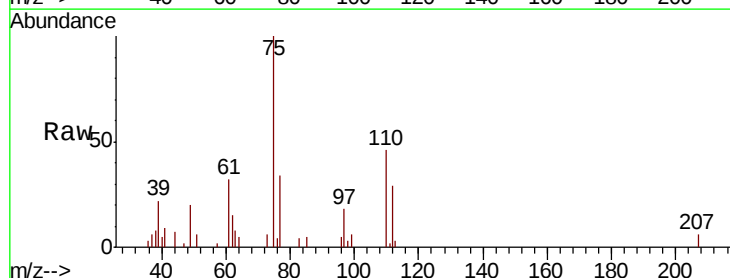
Tgt Ion: 75 Resp: 3805

Ion Ratio Lower Upper

75 100

77 34.3 29.0 43.6

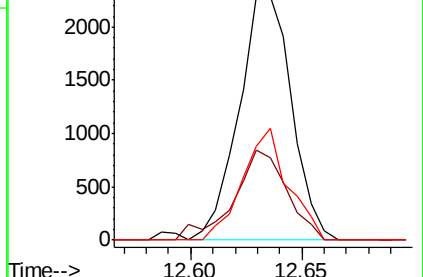
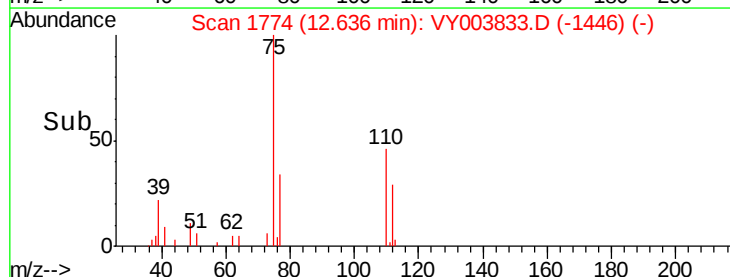
110 39.1 33.3 49.9

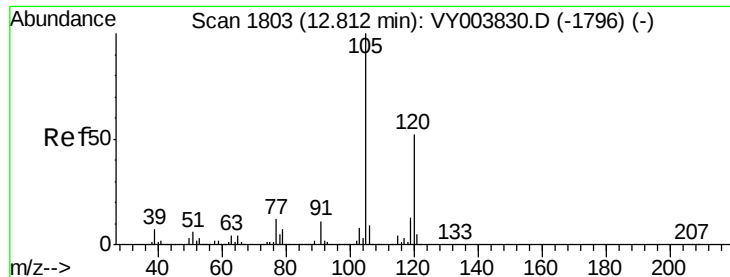


Abundance Ion 75.00 (74.70 to 75.70): VY003833.D (-1767) (-)

Ion 77.00 (76.70 to 77.70): VY003833.D (-1767) (-)

Ion 110.00 (109.70 to 110.70): VY003833.D (-1767) (-)





#62

1,3,5-Trimethylbenzene

Concen: 1.160 ug/L

RT: 12.81 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

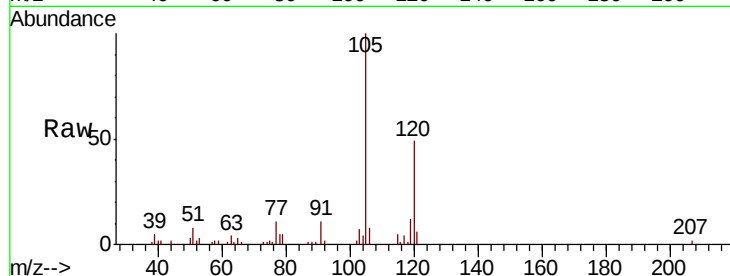
MDL-SOIL-07

Tot Ion:105 Resp: 15248

Ion Ratio Lower Upper

105 100

120 50.5 42.2 63.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12000

10000

8000

6000

4000

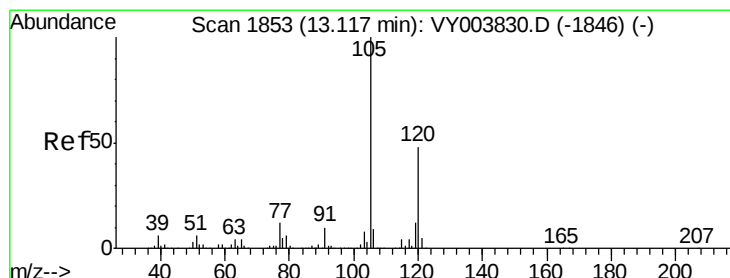
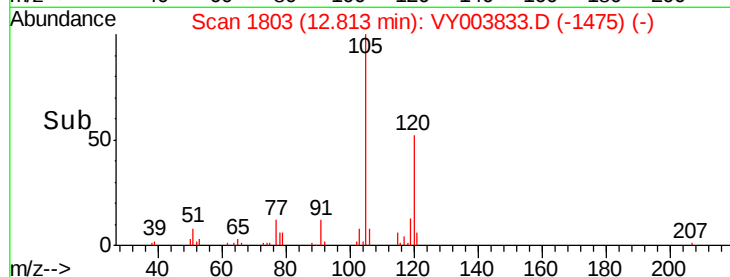
2000

0

12.75 12.80 12.85

Time-->

12.81



#63

1,2,4-Trimethylbenzene

Concen: 1.147 ug/L

RT: 13.12 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VY003833.D

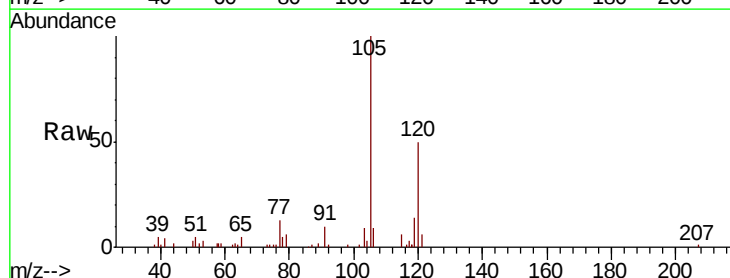
Acq: 22 Dec 2020 13:00

Tgt Ion:105 Resp: 14981

Ion Ratio Lower Upper

105 100

120 52.3 39.0 58.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12000

10000

8000

6000

4000

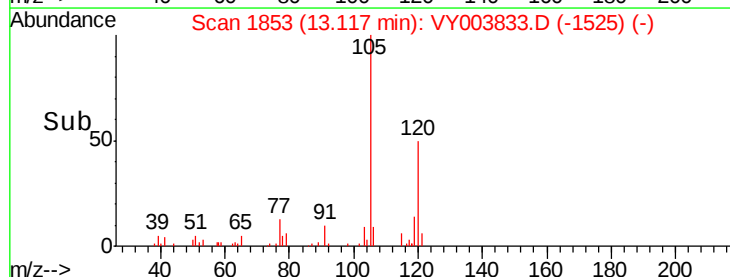
2000

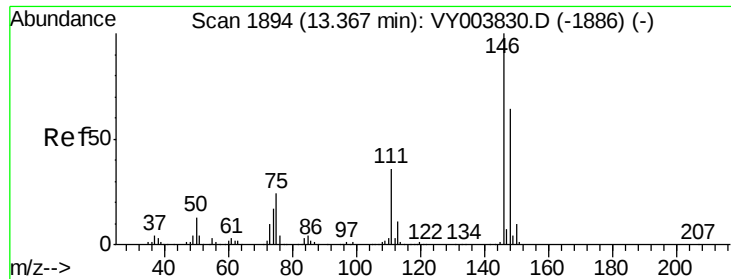
0

13.10 13.15

Time-->

13.12





#64

1,3-Dichlorobenzene

Concen: 1.411 ug/L

RT: 13.37 min Scan# 1894

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-07

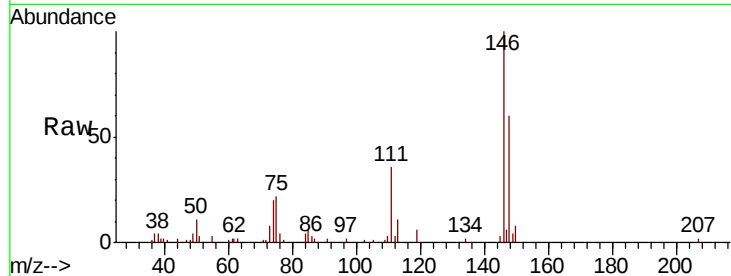
Tot Ion:146 Resp: 11334

Ion Ratio Lower Upper

146 100

111 35.5 25.3 47.1

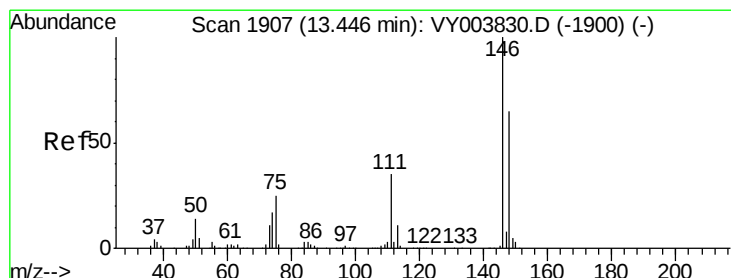
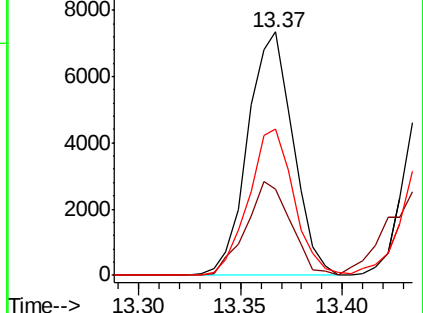
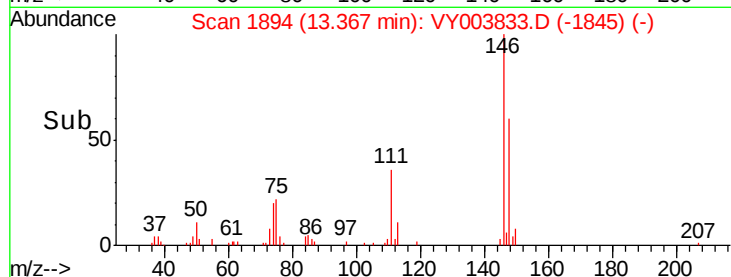
148 60.3 41.4 76.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 1.332 ug/L

RT: 13.45 min Scan# 1907

Delta R.T. 0.00 min

Lab File: VY003833.D

Acq: 22 Dec 2020 13:00

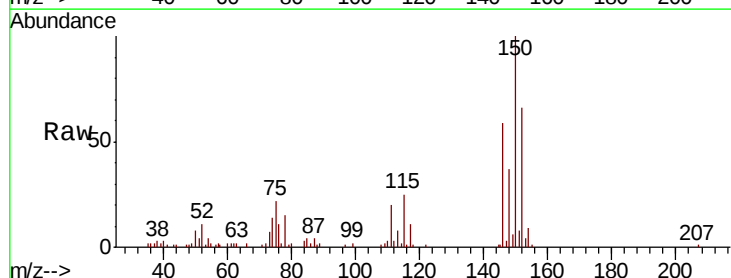
Tgt Ion:146 Resp: 10839

Ion Ratio Lower Upper

146 100

111 34.2 26.9 50.1

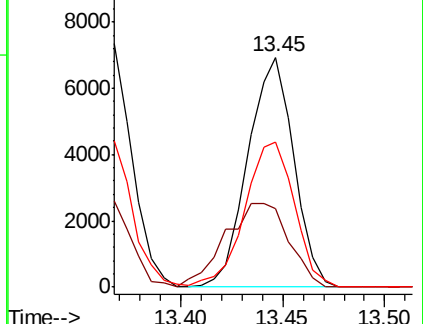
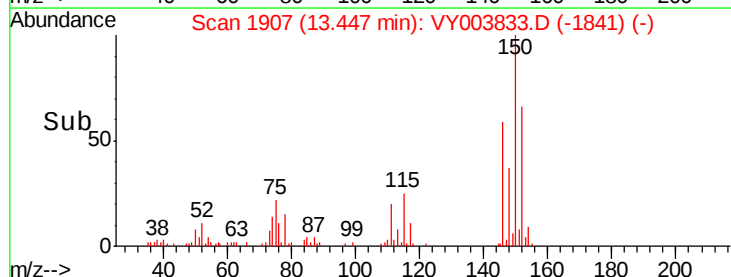
148 63.2 44.9 83.3

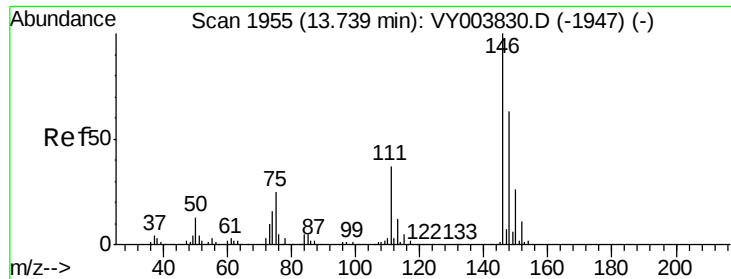


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

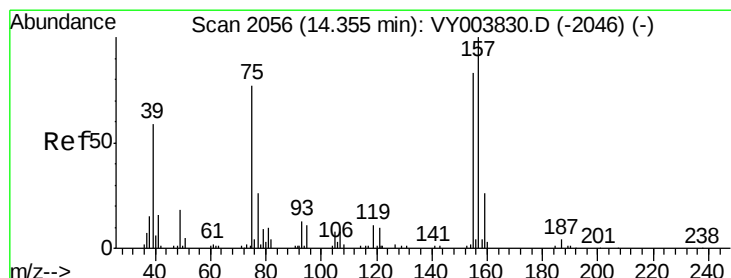
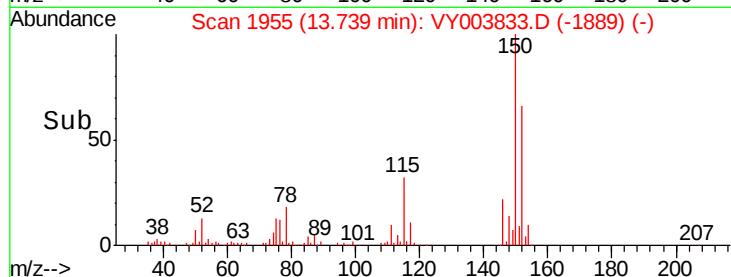
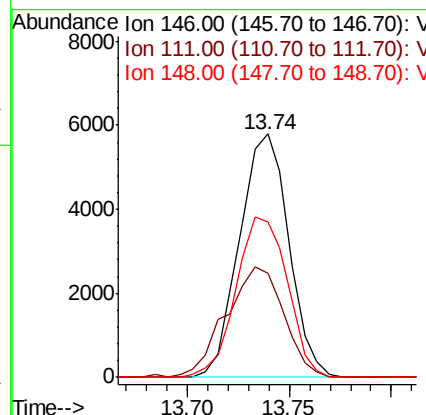
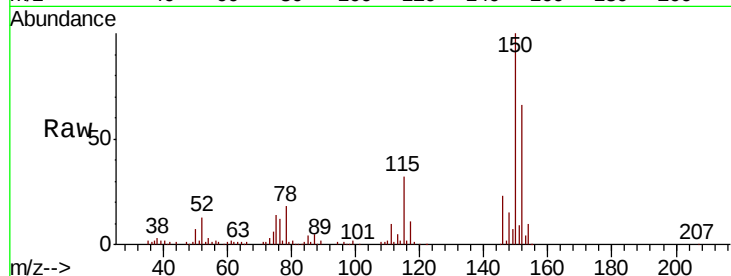




#67
 1,2-Dichlorobenzene
 Concen: 1.300 ug/L
 RT: 13.74 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

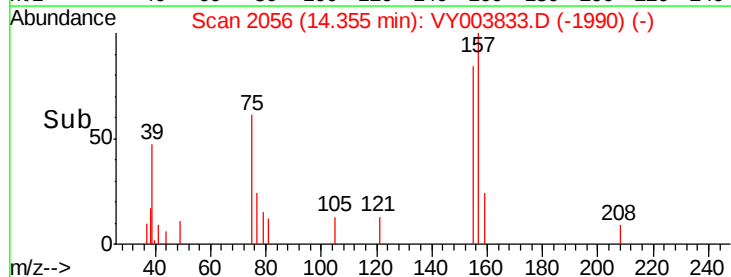
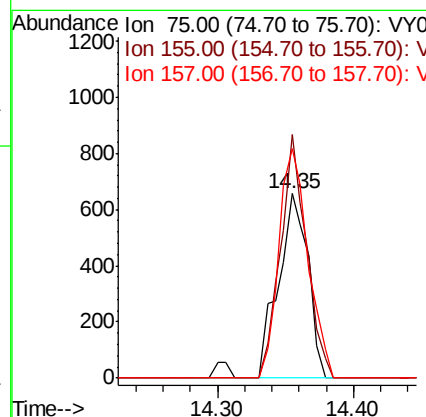
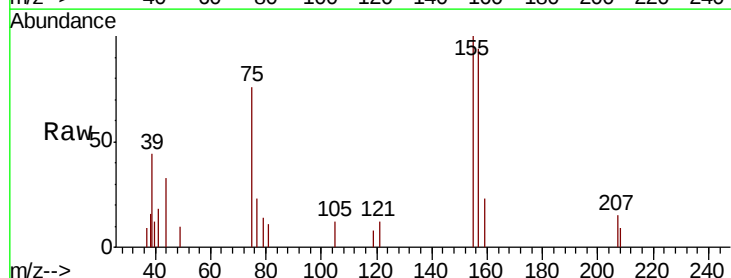
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

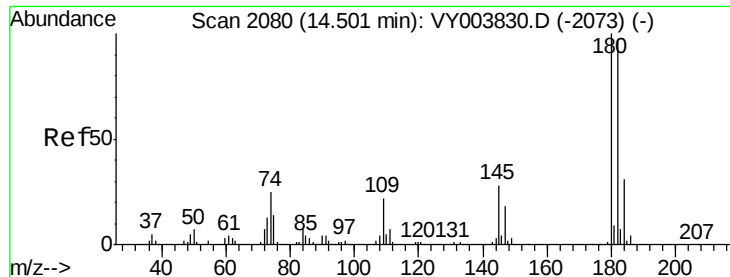
Tot Ion:146 Resp: 9716
 Ion Ratio Lower Upper
 146 100
 111 42.5 32.5 48.7
 148 64.0 48.8 73.2



#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.545 ug/L
 RT: 14.35 min Scan# 2056
 Delta R.T. 0.00 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

Tgt Ion: 75 Resp: 1032
 Ion Ratio Lower Upper
 75 100
 155 132.0 69.5 104.3#
 157 124.5 111.3 166.9

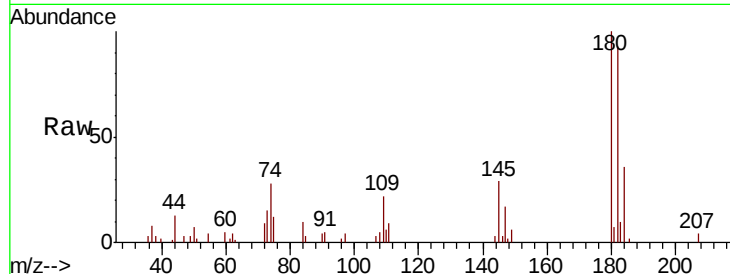




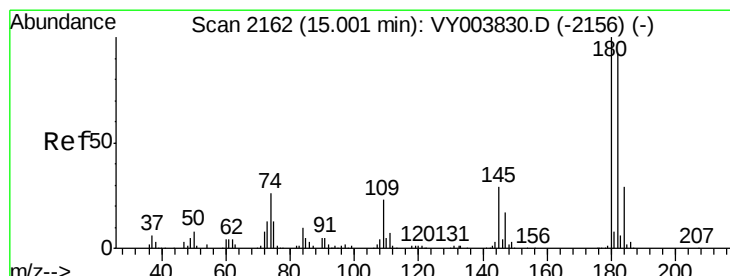
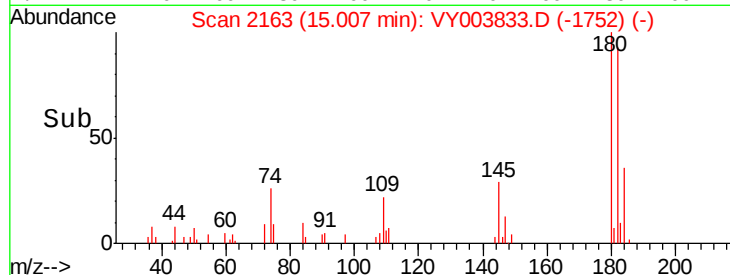
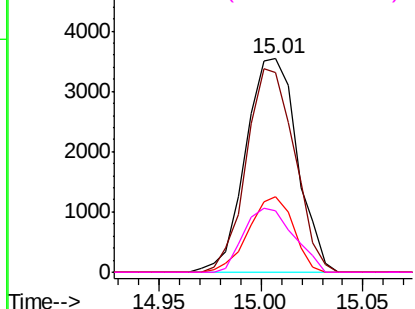
#69
 1,3,5-Trichlorobenzene
 Concen: 1.091 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. 0.51 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-07

Tot Ion:	180	Resp:	6212
Ion	Ratio	Lower	Upper
180	100		
182	89.3	80.1	120.1
184	30.9	24.4	36.6
145	29.3	22.9	34.3

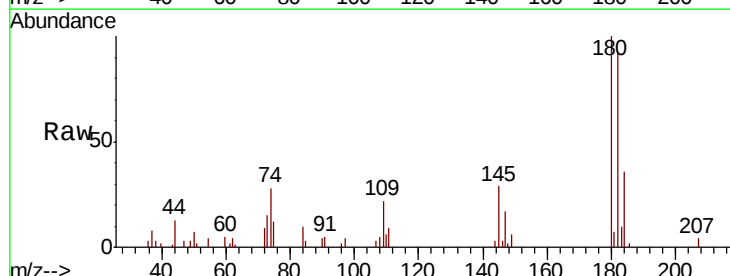


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

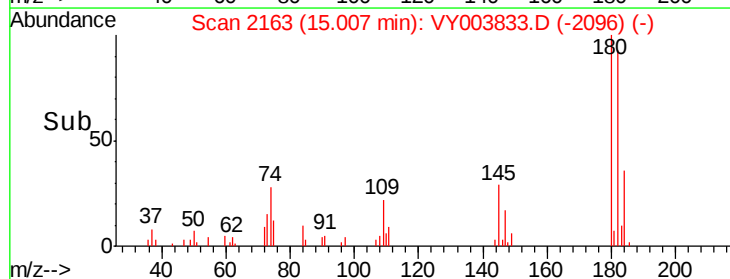
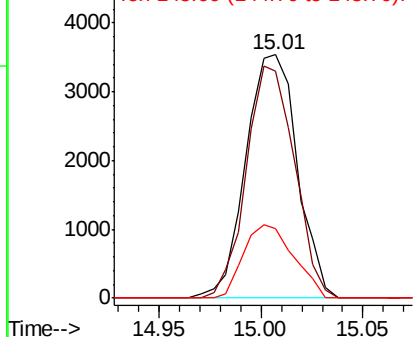


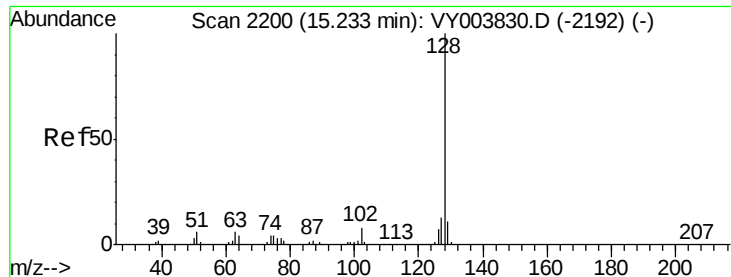
#70
 1,2,4-trichlorobenzene
 Concen: 1.283 ug/L
 RT: 15.01 min Scan# 2163
 Delta R.T. 0.01 min
 Lab File: VY003833.D
 Acq: 22 Dec 2020 13:00

Tgt Ion:	180	Resp:	6212
Ion	Ratio	Lower	Upper
180	100		
182	89.3	81.5	122.3
145	29.3	22.3	33.5



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

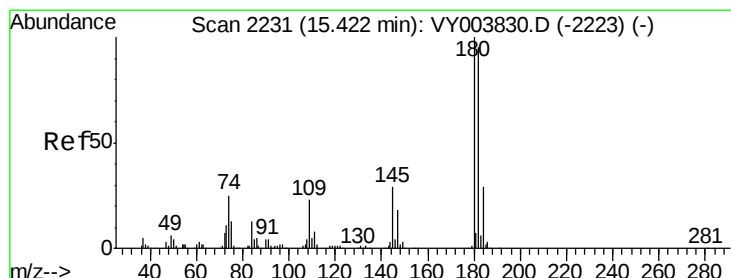
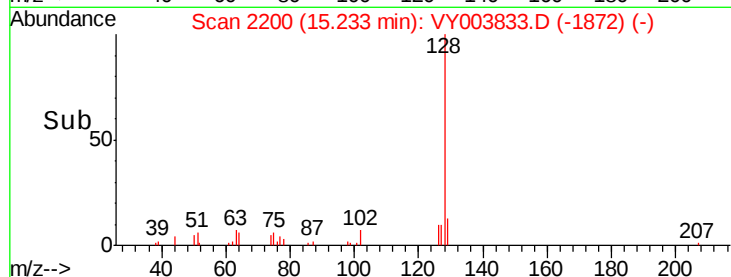
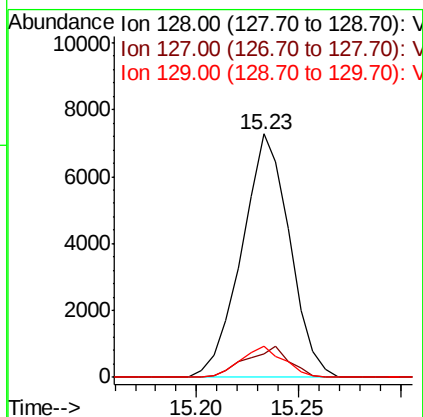
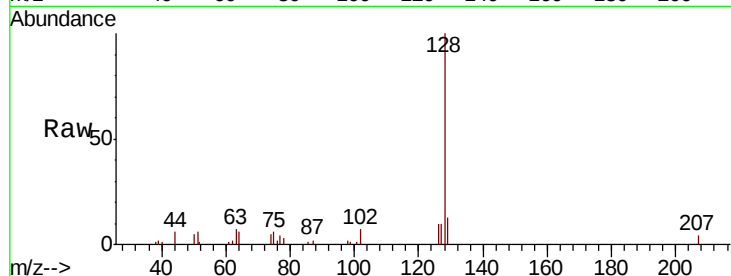




#71
Naphthalene
Concen: 1.154 ug/L
RT: 15.23 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-07

Tot Ion:128 Resp: 11855
Ion Ratio Lower Upper
128 100
127 11.8 10.2 15.4
129 11.5 9.4 14.0



#72
1,2,3-Trichlorobenzene
Concen: 1.360 ug/L
RT: 15.42 min Scan# 2231
Delta R.T. 0.00 min
Lab File: VY003833.D
Acq: 22 Dec 2020 13:00

Tgt Ion:180 Resp: 6036
Ion Ratio Lower Upper
180 100
182 97.9 78.7 118.1
145 28.5 24.6 37.0

