

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY122920\
 Data File : VY003857.D
 Acq On : 29 Dec 2020 17:29
 Operator : SY/MD
 Sample : L4485-03
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

Quant Time: Dec 30 07:21:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SFAMYL122920SMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 30 07:19:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	328242	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.48	117	303596	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.42	152	165575	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	119678	21.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.20%
7) Chloroethane-d5	2.76	69	101926	23.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.80%
11) 1,1-Dichloroethene-d2	3.86	63	167424	17.47	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	69.88%
21) 2-Butanone-d5	6.89	46	103312	48.92	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.84%
24) Chloroform-d	7.48	84	214864	23.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	8.14	65	140344	24.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.20%
32) Benzene-d6	8.11	84	422107	25.01	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.04%
36) 1,2-Dichloropropane-d6	9.12	67	127033	25.51	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.04%
41) Toluene-d8	10.18	98	398644	24.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.80%
43) trans-1,3-Dichloropropene-	10.43	79	69706	24.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.28%
47) 2-Hexanone-d5	10.78	63	75586	48.96	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.92%
56) 1,1,2,2-Tetrachloroethane-	12.56	84	122067	24.94	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.76%
66) 1,2-Dichlorobenzene-d4	13.72	152	159711	26.39	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.56%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.91	85	7177	1.305	ug/L	95
3) Chloromethane	2.11	50	8083	1.313	ug/L	91
6) Bromomethane	2.66	94	4828	1.209	ug/L	91
9) Trichlorofluoromethane	3.13	101	9914	1.136	ug/L	100
12) 1,1-Dichloroethene	3.88	96	5860	1.362	ug/L #	1
13) Acetone	3.95	43	5129	3.256	ug/L	93
14) Carbon disulfide	4.20	76	15643	1.080	ug/L	100
15) Methyl Acetate	4.48	43	4214	1.163	ug/L #	62
16) Methylene chloride	4.72	84	13402	2.546	ug/L	96
17) trans-1,2-Dichloroethene	5.23	96	4991	1.060	ug/L	95
18) Methyl tert-butyl Ether	5.23	73	14354	1.032	ug/L #	70
19) 1,1-Dichloroethane	6.03	63	8915	1.048	ug/L #	89
20) cis-1,2-Dichloroethene	7.00	96	3239	0.636	ug/L	86
23) Bromochloromethane	7.34	128	2551	1.013	ug/L	82
27) 1,2-Dichloroethane	8.23	62	7820	1.128	ug/L #	94
29) Cyclohexane	7.79	56	8568	1.077	ug/L	94
30) 1,1,1-Trichloroethane	7.71	97	8895	1.089	ug/L	98

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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

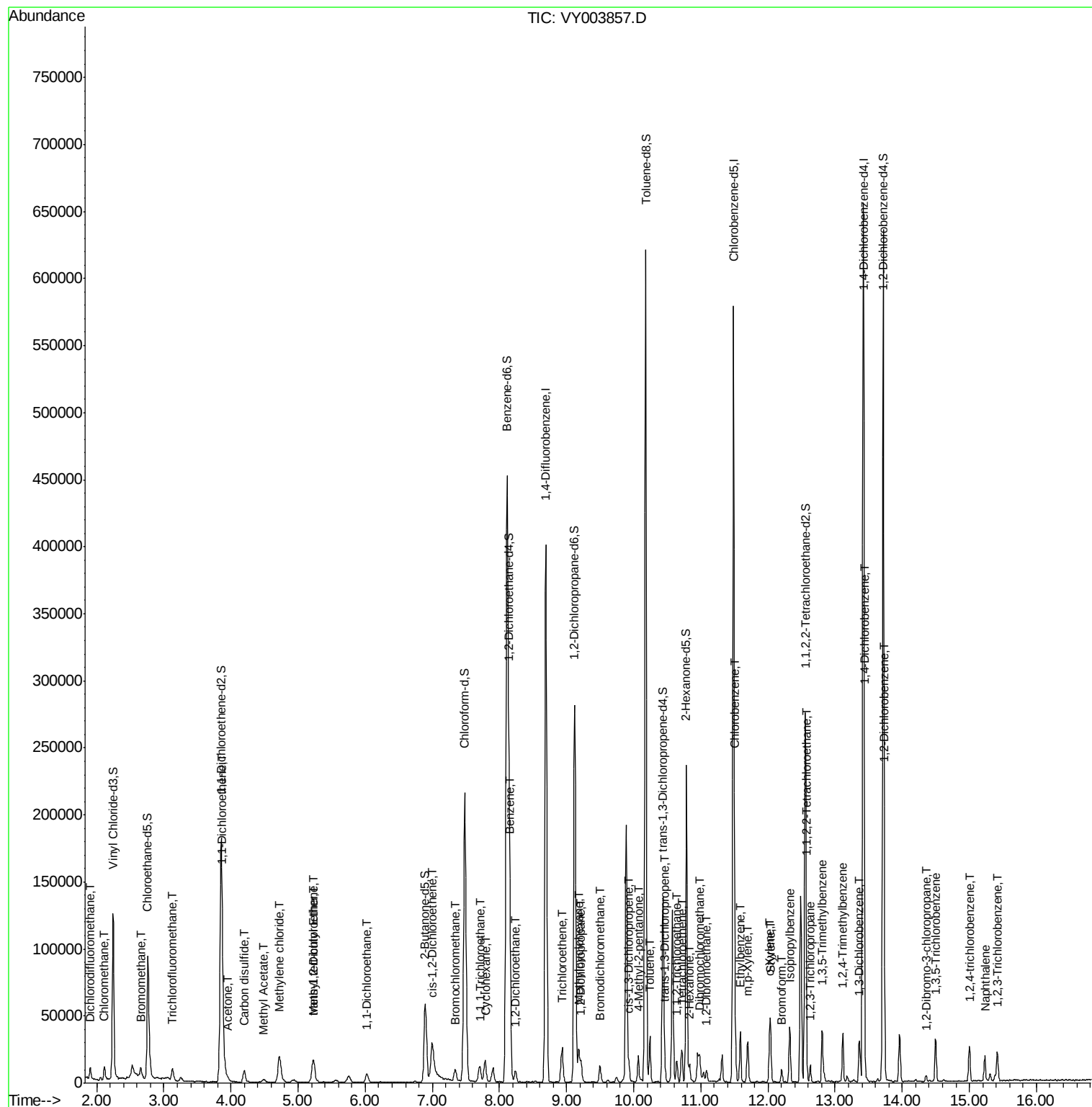
33) Benzene	8.16	78	19598	1.056	ug/L	100
34) Trichloroethene	8.94	95	5690	1.109	ug/L	94
35) Methylcyclohexane	9.18	83	8642	1.035	ug/L	95
37) 1,2-Dichloropropane	9.22	63	5209	1.103	ug/L	97
38) Bromodichloromethane	9.50	83	7218	1.084	ug/L #	89
39) cis-1,3-Dichloropropene	9.93	75	8499	1.053	ug/L	94
40) 4-Methyl-2-pentanone	10.07	43	12533	2.485	ug/L	98
42) Toluene	10.24	91	22178	1.080	ug/L	97
44) trans-1,3-Dichloropropene	10.47	75	11977	1.537	ug/L	99
45) 1,1,2-Trichloroethane	10.64	97	4567	1.125	ug/L	86
46) Tetrachloroethene	10.72	164	5180	1.168	ug/L	88
48) 2-Hexanone	10.83	43	7549	2.054	ug/L	99
49) Dibromochloromethane	10.98	129	5692	1.108	ug/L	90
50) 1,2-Dibromoethane	11.09	107	4526	1.130	ug/L	92
51) Chlorobenzene	11.51	112	14998	1.130	ug/L	96
52) Ethylbenzene	11.59	91	24561	1.068	ug/L	95
53) m,p-Xylene	11.70	106	8922	1.023	ug/L	95
54) o-Xylene	12.02	106	8806	1.037	ug/L	87
55) Styrene	12.04	104	14468	0.985	ug/L	100
57) 1,1,2,2-Tetrachloroethane	12.57	83	6198	1.291	ug/L #	87
59) Bromoform	12.20	173	4217	1.180	ug/L #	96
60) Isopropylbenzene	12.32	105	23061	1.053	ug/L	99
61) 1,2,3-Trichloropropane	12.63	75	4954	1.218	ug/L	99
62) 1,3,5-Trimethylbenzene	12.81	105	19204	1.056	ug/L	97
63) 1,2,4-Trimethylbenzene	13.12	105	19344	1.050	ug/L	98
64) 1,3-Dichlorobenzene	13.36	146	12195	1.150	ug/L	96
65) 1,4-Dichlorobenzene	13.44	146	12502	1.164	ug/L	91
67) 1,2-Dichlorobenzene	13.74	146	12006	1.209	ug/L	91
68) 1,2-Dibromo-3-chloropropan	14.35	75	1450	1.435	ug/L #	68
69) 1,3,5-Trichlorobenzene	14.50	180	9917	1.200	ug/L	97
70) 1,2,4-trichlorobenzene	15.00	180	7945	1.134	ug/L	96
71) Naphthalene	15.23	128	15389	1.052	ug/L	97
72) 1,2,3-Trichlorobenzene	15.42	180	7179	1.160	ug/L	95

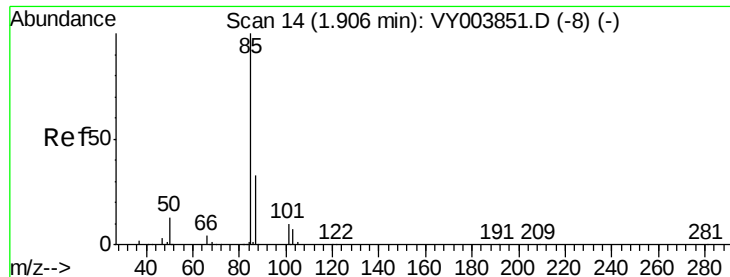
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.305 ug/L

RT: 1.91 min Scan# 14

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

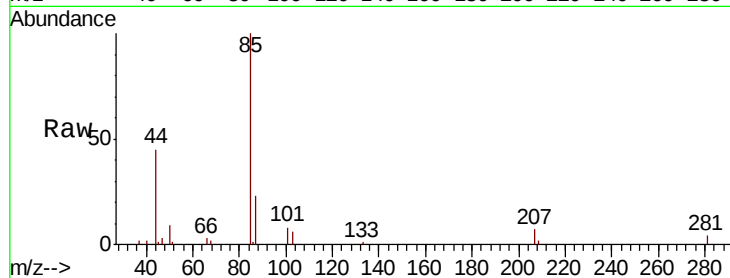
MDL-SOIL-03

Tot Ion: 85 Resp: 7177

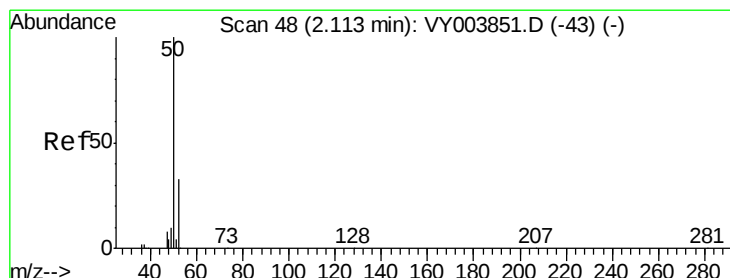
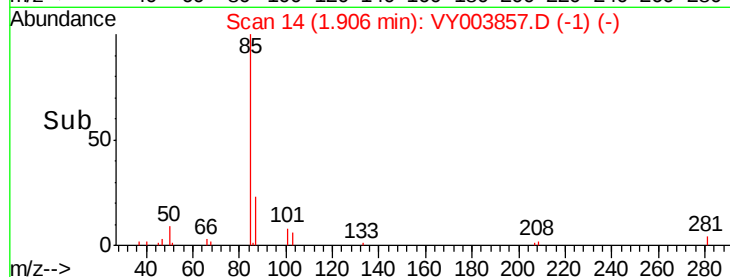
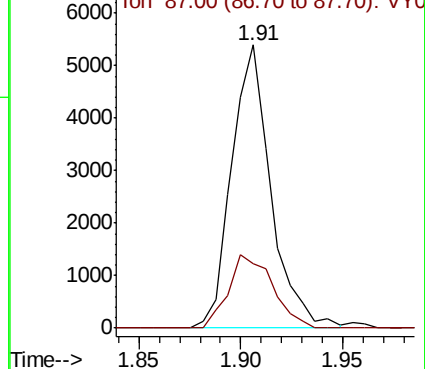
Ion Ratio Lower Upper

85 100

87 29.2 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VY003857.D (-8) (-)



#3

Chloromethane

Concen: 1.313 ug/L

RT: 2.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VY003857.D

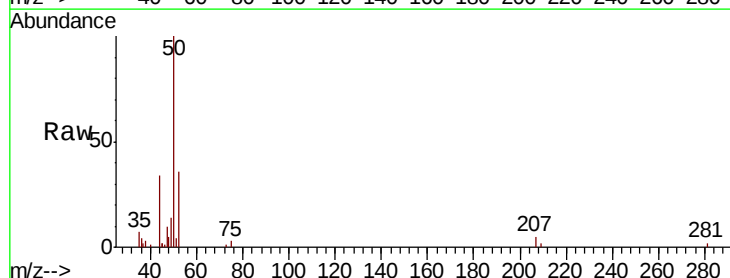
Acq: 29 Dec 2020 17:29

Tgt Ion: 50 Resp: 8083

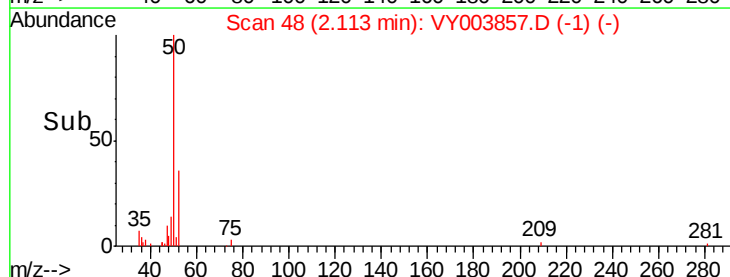
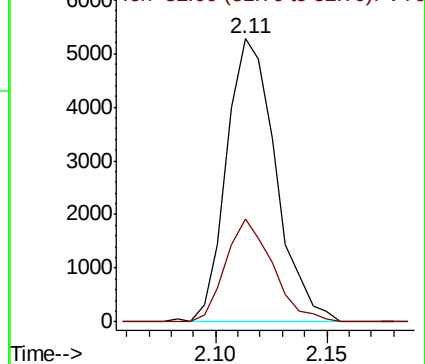
Ion Ratio Lower Upper

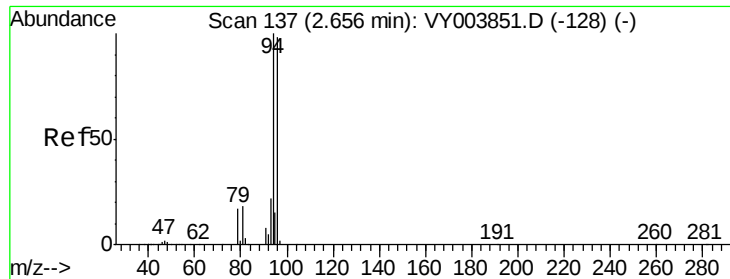
50 100

52 36.3 22.0 41.0



Abundance Ion 50.00 (49.70 to 50.70): VY003857.D (-43) (-)





#6

Bromomethane

Concen: 1.209 ug/L

RT: 2.66 min Scan# 137

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

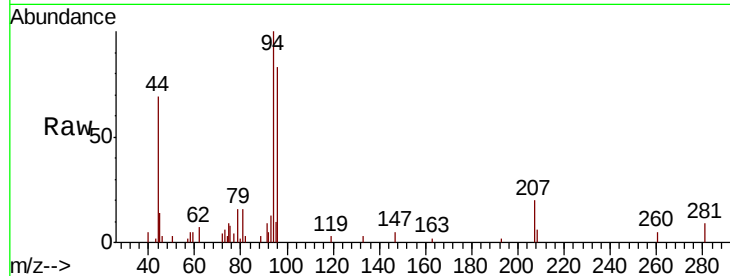
MDL-SOIL-03

Tot Ion: 94 Resp: 4828

Ion Ratio Lower Upper

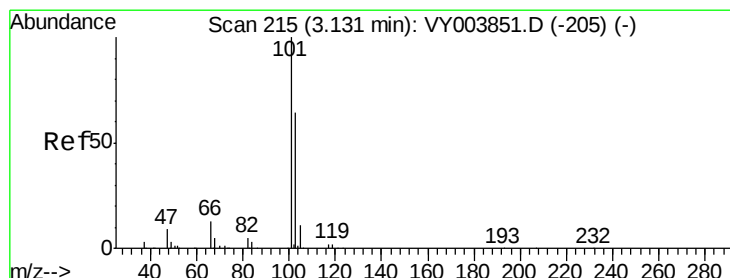
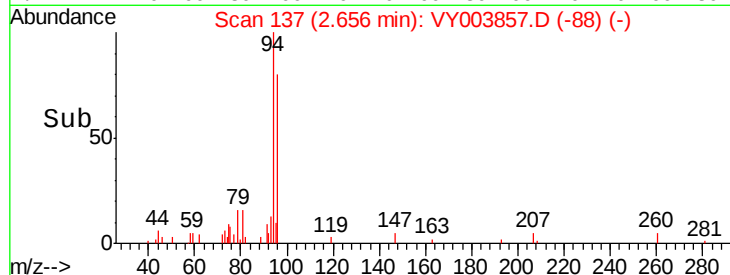
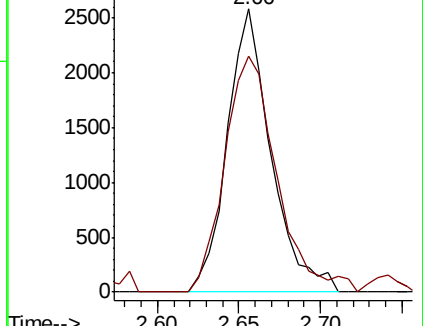
94 100

96 83.3 64.3 119.3



Abundance Ion 94.00 (93.70 to 94.70): VY003857.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VY003857.D (-128) (-)



#9

Trichlorofluoromethane

Concen: 1.136 ug/L

RT: 3.13 min Scan# 215

Delta R.T. 0.00 min

Lab File: VY003857.D

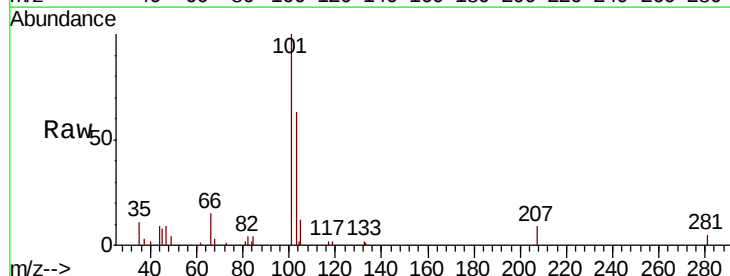
Acq: 29 Dec 2020 17:29

Tgt Ion: 101 Resp: 9914

Ion Ratio Lower Upper

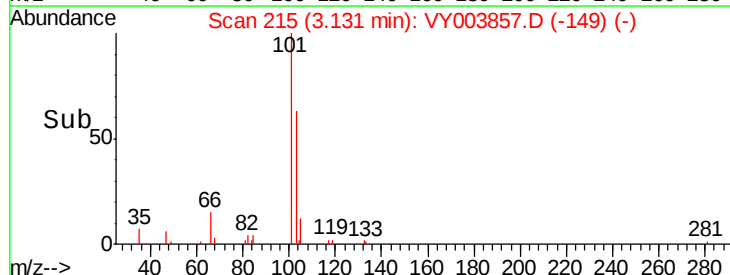
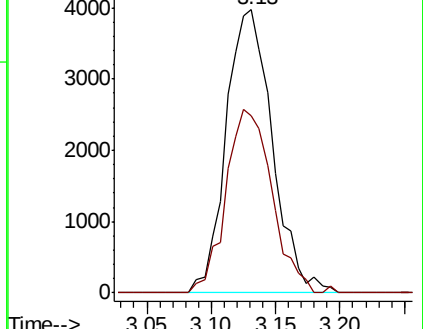
101 100

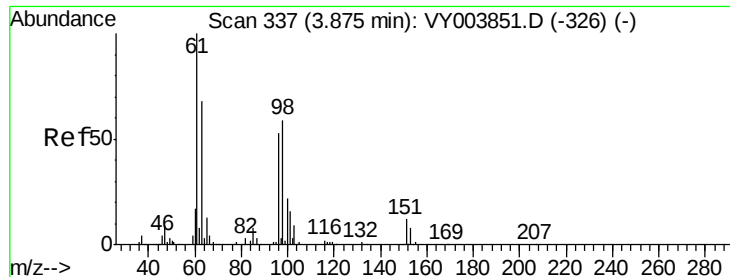
103 64.4 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VY003857.D (-205) (-)

Ion 103.00 (102.70 to 103.70): VY003857.D (-205) (-)





#12

1,1-Dichloroethene

Concen: 1.362 ug/L

RT: 3.88 min Scan# 337

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03

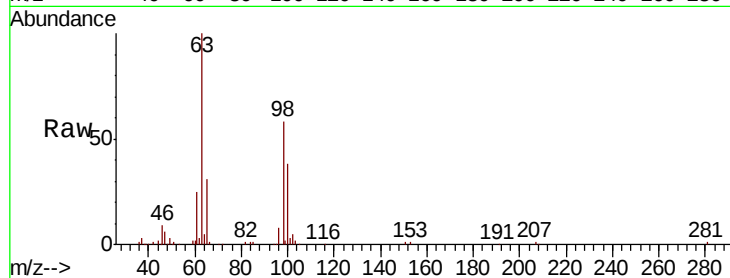
Tot Ion: 96 Resp: 5860

Ion Ratio Lower Upper

96 100

61 329.4 123.8 230.0#

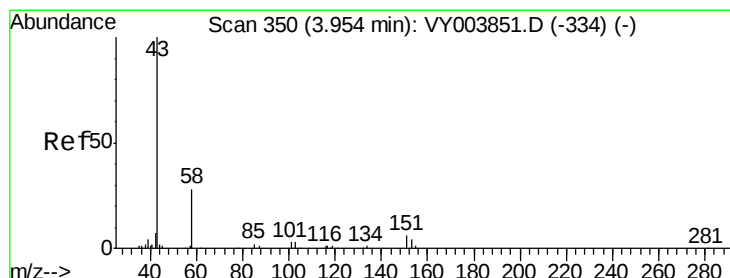
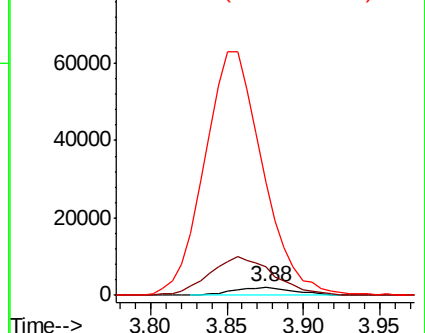
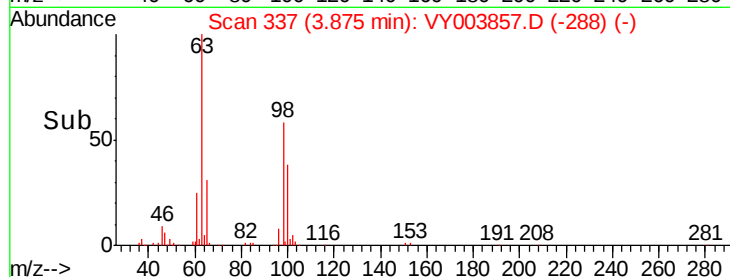
63 1325.3 85.3 158.3#



Abundance Ion 96.00 (95.70 to 96.70): VY003857.D (-288) (-)

Ion 61.00 (60.70 to 61.70): VY003857.D (-288) (-)

Ion 63.00 (62.70 to 63.70): VY003857.D (-288) (-)



#13

Acetone

Concen: 3.256 ug/L

RT: 3.95 min Scan# 350

Delta R.T. 0.00 min

Lab File: VY003857.D

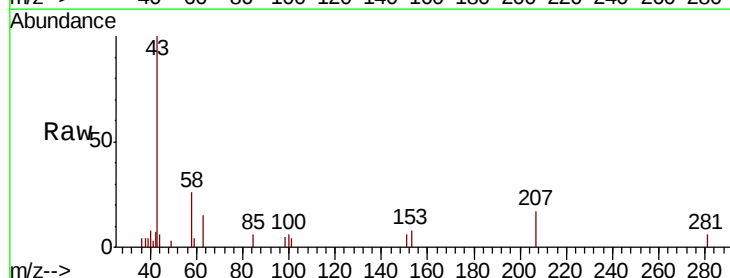
Acq: 29 Dec 2020 17:29

Tgt Ion: 43 Resp: 5129

Ion Ratio Lower Upper

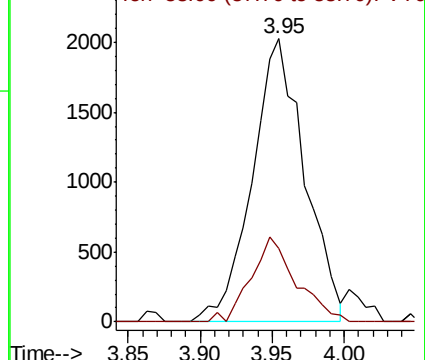
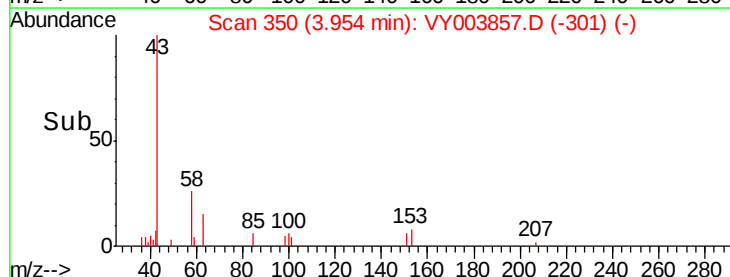
43 100

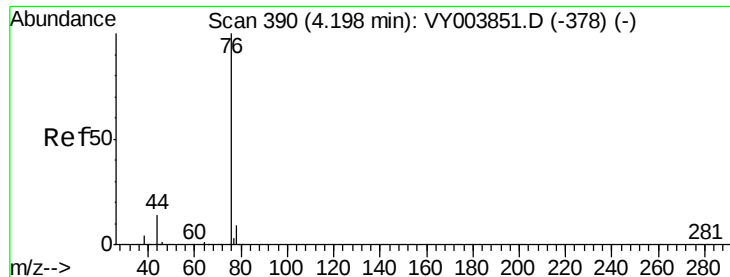
58 25.3 0.0 58.4



Abundance Ion 43.00 (42.70 to 43.70): VY003857.D (-301) (-)

Ion 58.00 (57.70 to 58.70): VY003857.D (-301) (-)





#14

Carbon disulfide

Concen: 1.080 ug/L

RT: 4.20 min Scan# 390

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

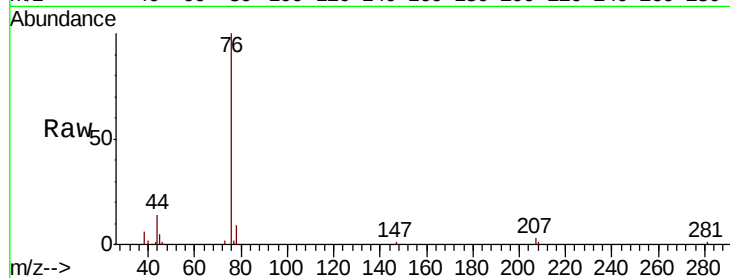
MDL-SOIL-03

Tot Ion: 76 Resp: 15643

Ion Ratio Lower Upper

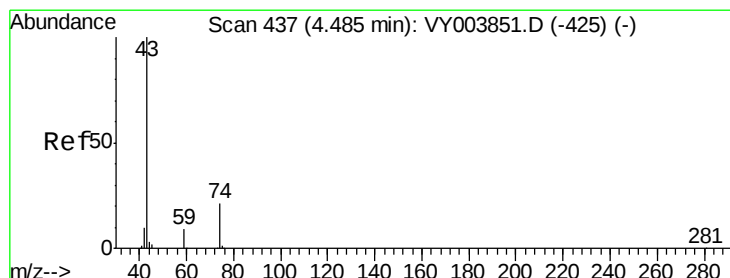
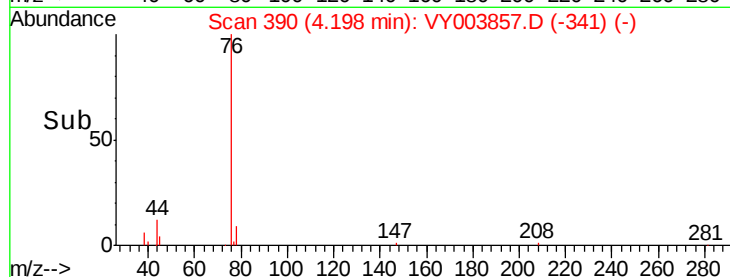
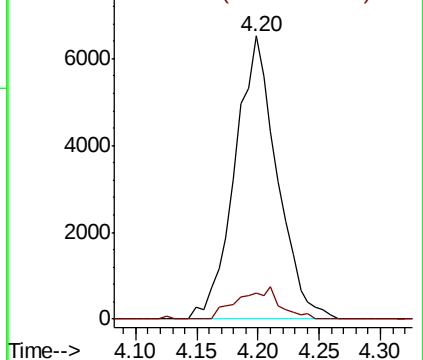
76 100

78 9.2 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: 1.163 ug/L

RT: 4.48 min Scan# 436

Delta R.T. -0.01 min

Lab File: VY003857.D

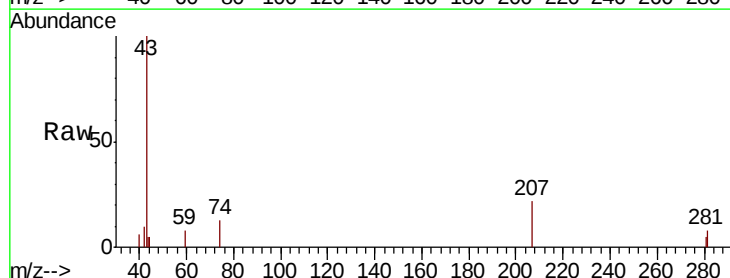
Acq: 29 Dec 2020 17:29

Tgt Ion: 43 Resp: 4214

Ion Ratio Lower Upper

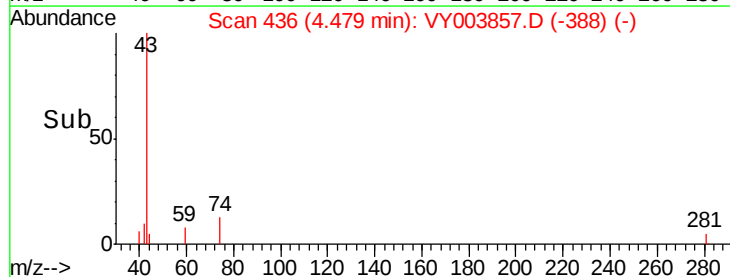
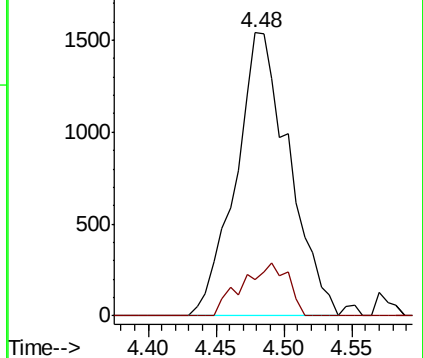
43 100

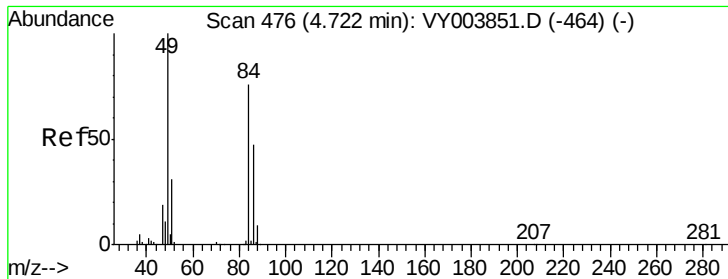
74 3.7 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

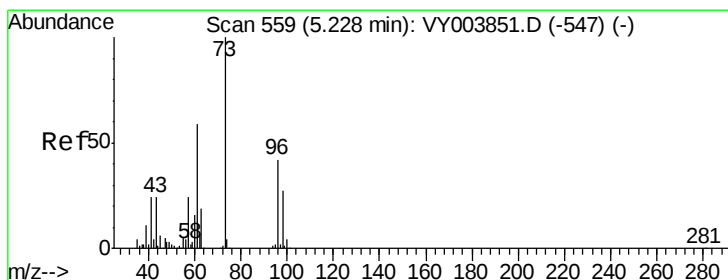
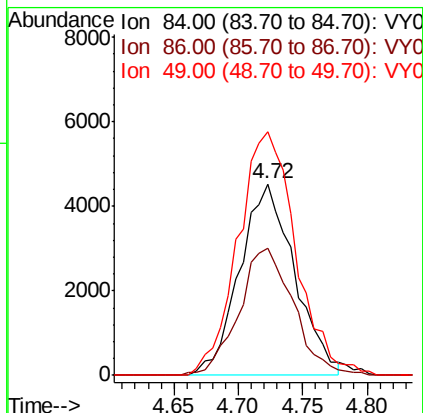
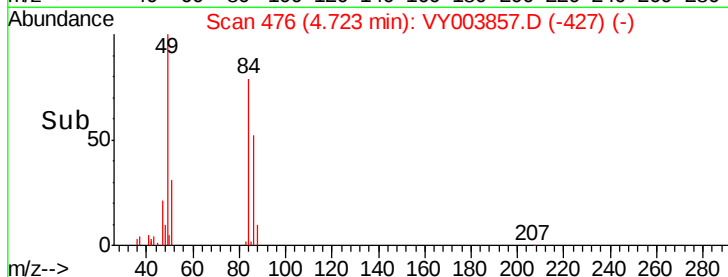
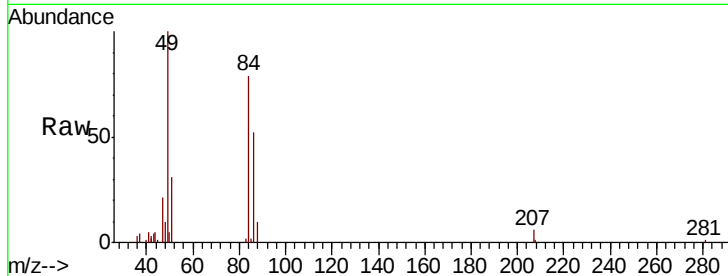




#16
Methvlene chloride
Concen: 2.546 ug/L
RT: 4.72 min Scan# 476
Delta R.T. 0.00 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

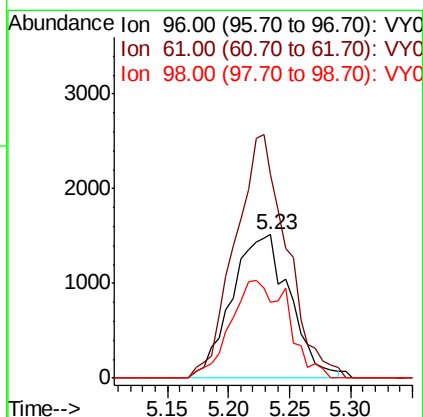
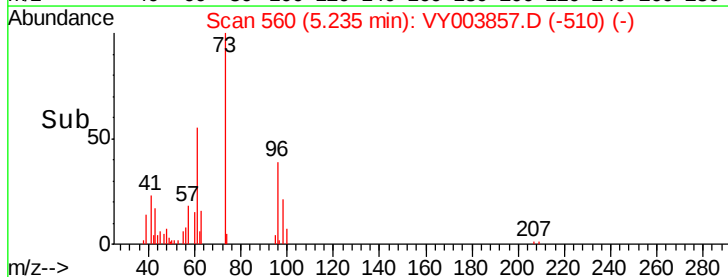
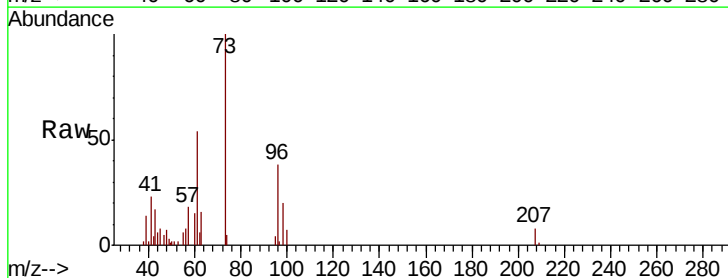
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03

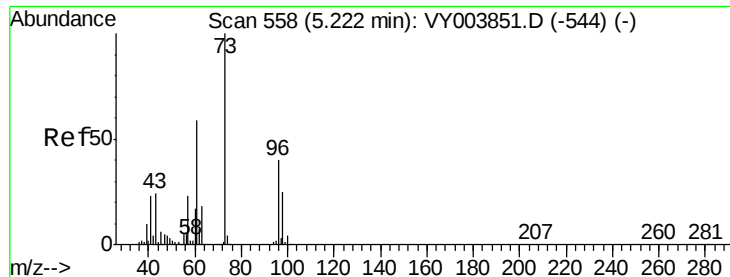
Tot Ion: 84 Resp: 13402
Ion Ratio Lower Upper
84 100
86 66.2 42.1 78.3
49 127.1 90.3 167.7



#17
trans-1,2-Dichloroethene
Concen: 1.060 ug/L
RT: 5.23 min Scan# 560
Delta R.T. 0.01 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

Tgt Ion: 96 Resp: 4991
Ion Ratio Lower Upper
96 100
61 142.7 101.7 188.9
98 53.3 44.3 82.3



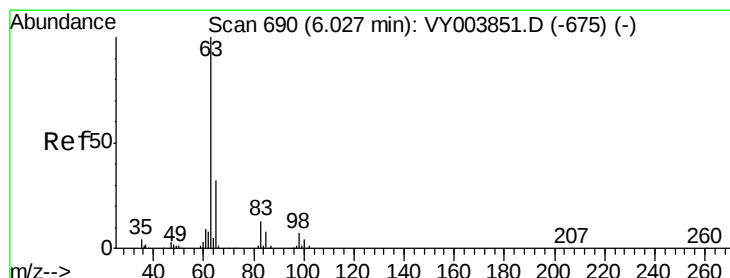
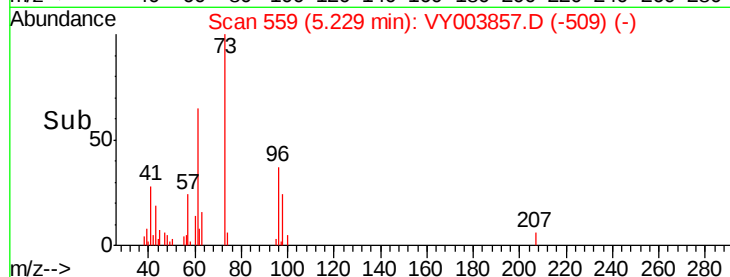
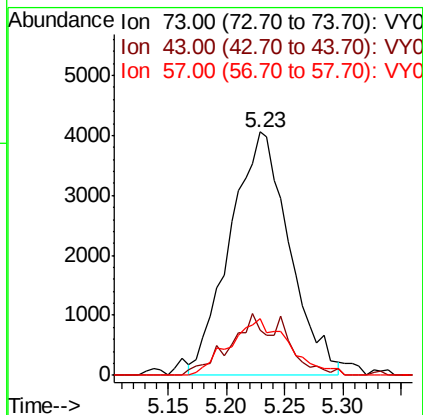
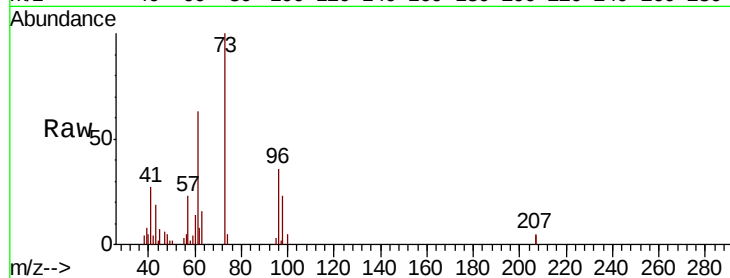


#18

Methvl tert-butvl Ether
 Concen: 1.032 ug/L
 RT: 5.23 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

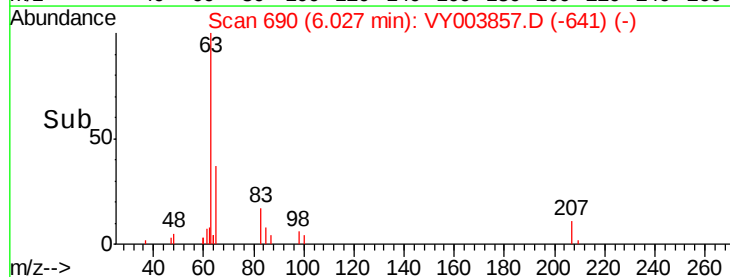
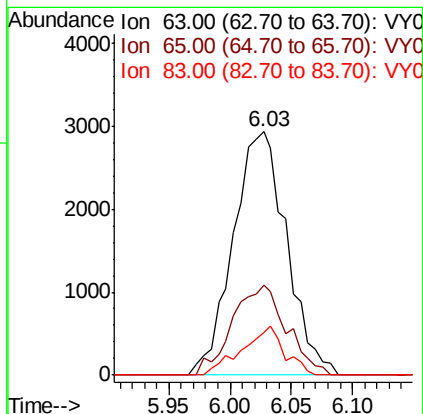
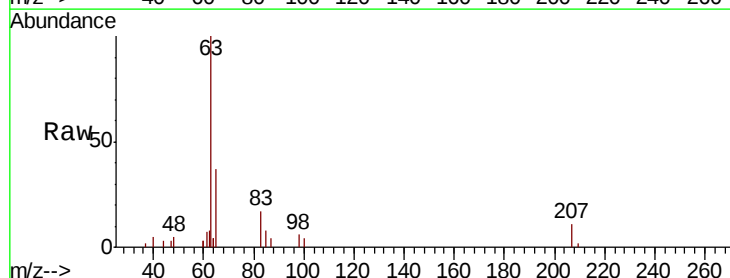
Tot Ion: 73 Resp: 14354
 Ion Ratio Lower Upper
 73 100
 43 10.4 18.4 27.6#
 57 5.4 17.6 26.4#

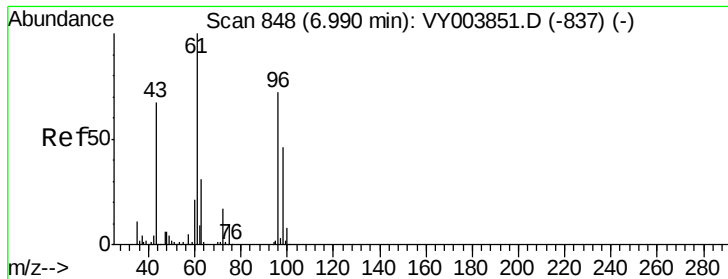


#19

1,1-Dichloroethane
 Concen: 1.048 ug/L
 RT: 6.03 min Scan# 690
 Delta R.T. 0.00 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion: 63 Resp: 8915
 Ion Ratio Lower Upper
 63 100
 65 37.2 21.9 40.7
 83 17.4 8.7 16.1#

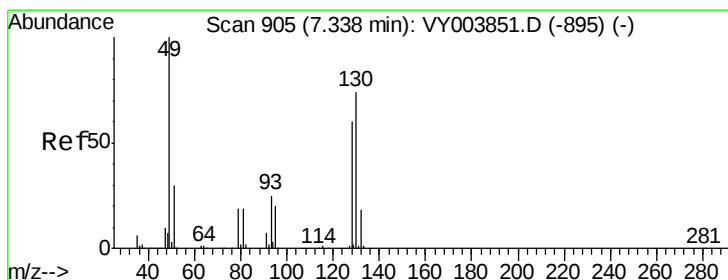
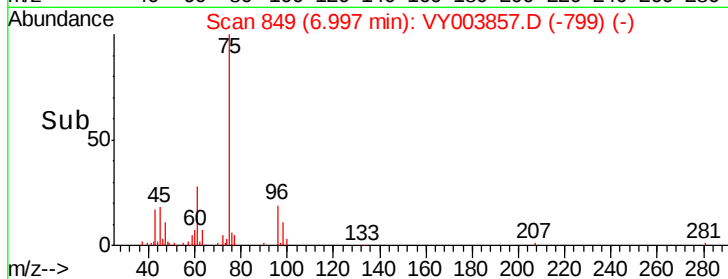
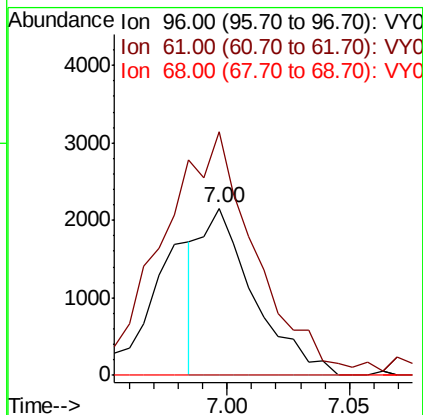
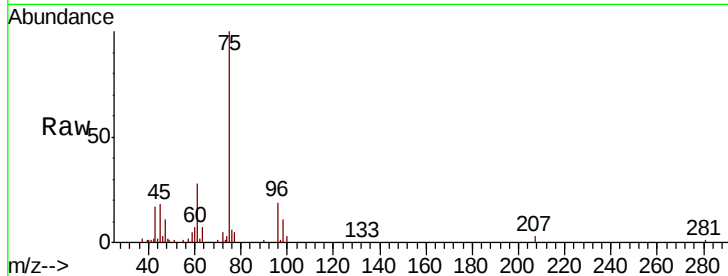




#20
 cis-1,2-Dichloroethene
 Concen: 0.636 ug/L
 RT: 7.00 min Scan# 849
 Delta R.T. 0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

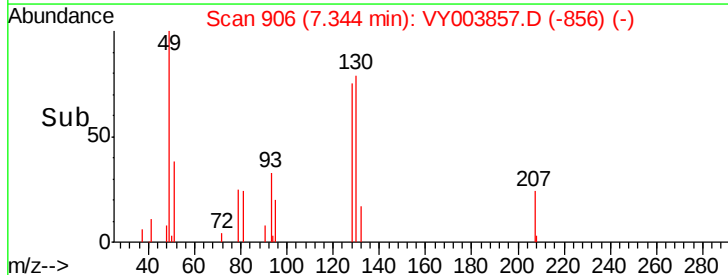
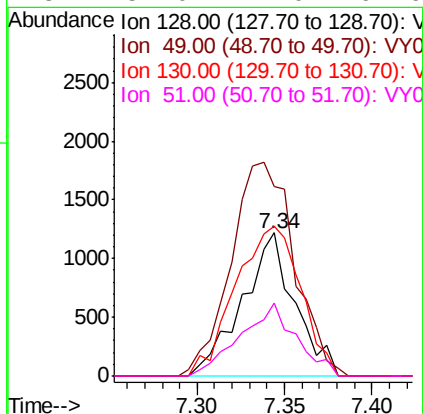
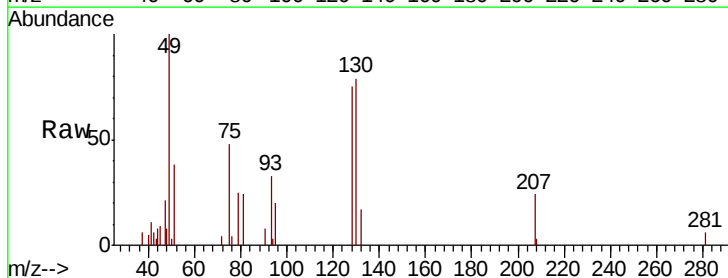
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

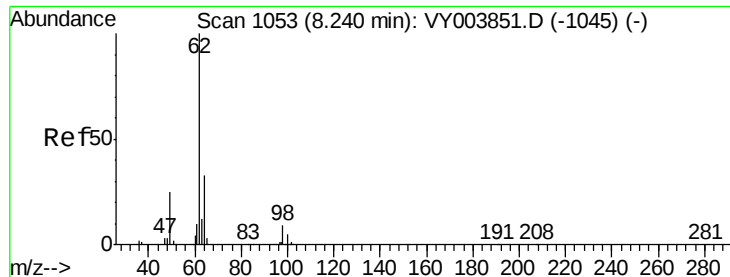
Tot Ion: 96 Resp: 3239
 Ion Ratio Lower Upper
 96 100
 61 145.7 90.6 168.3
 68 0.0 0.0 0.0



#23
 Bromochloromethane
 Concen: 1.013 ug/L
 RT: 7.34 min Scan# 906
 Delta R.T. 0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion: 128 Resp: 2551
 Ion Ratio Lower Upper
 128 100
 49 132.7 114.4 212.4
 130 105.1 88.8 164.8
 51 51.0 41.0 61.6

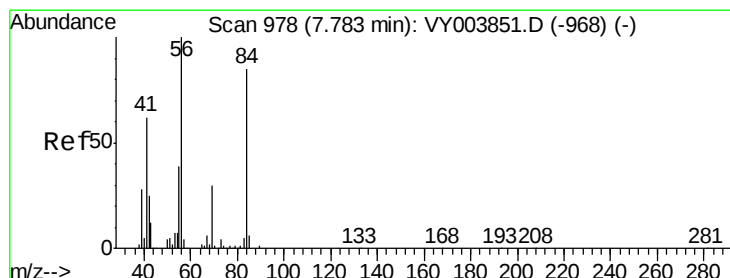
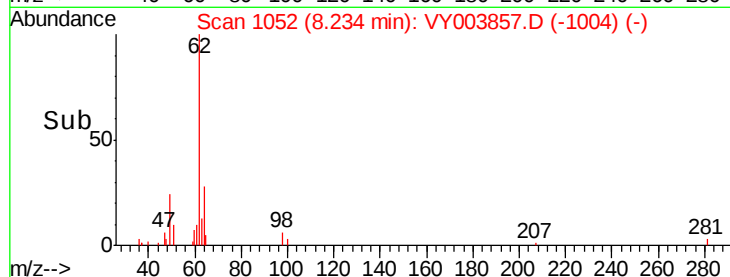
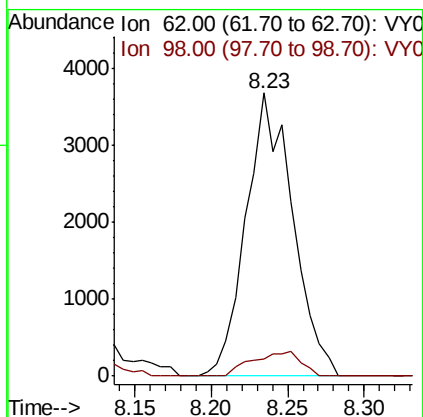
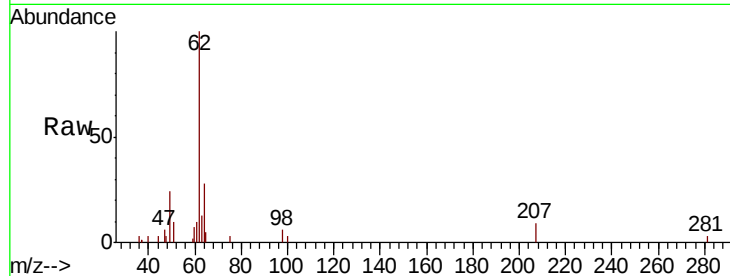




#27
 1,2-Dichloroethane
 Concen: 1.128 ug/L
 RT: 8.23 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

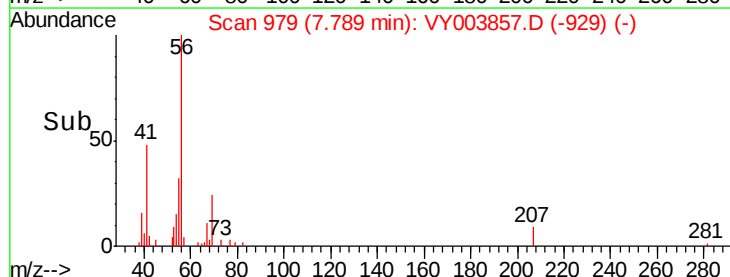
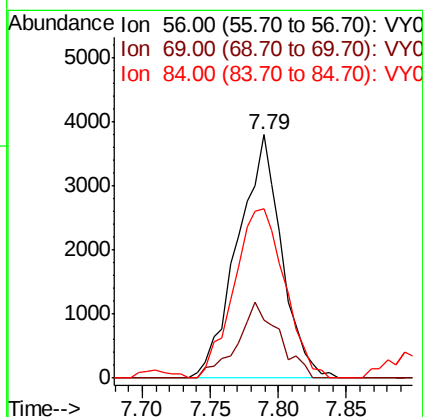
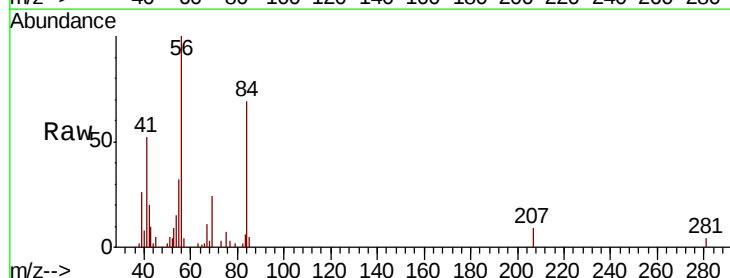
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

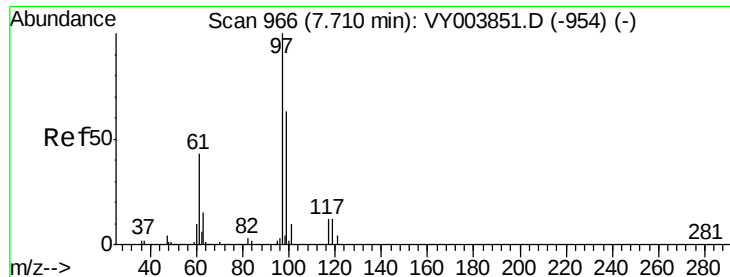
Tot Ion: 62 Resp: 7820
 Ion Ratio Lower Upper
 62 100
 98 6.3 6.8 10.2#



#29
 Cyclohexane
 Concen: 1.077 ug/L
 RT: 7.79 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion: 56 Resp: 8568
 Ion Ratio Lower Upper
 56 100
 69 27.3 24.2 36.2
 84 80.3 68.7 103.1

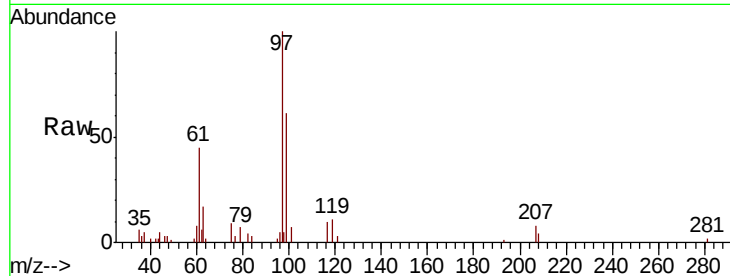




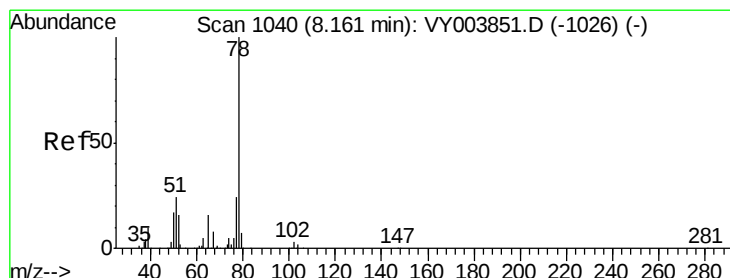
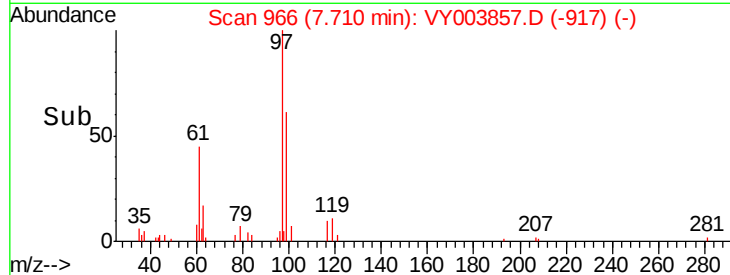
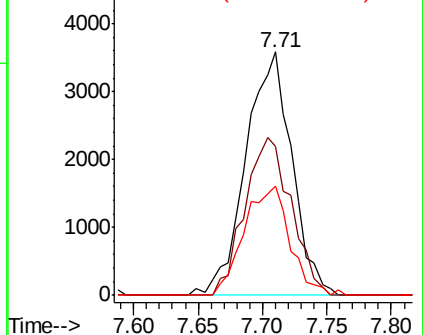
#30
 1,1,1-Trichloroethane
 Concen: 1.089 ug/L
 RT: 7.71 min Scan# 966
 Delta R.T. 0.00 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

Tot Ion: 97 Resp: 8895
 Ion Ratio Lower Upper
 97 100
 99 65.4 50.5 75.7
 61 44.3 35.5 53.3

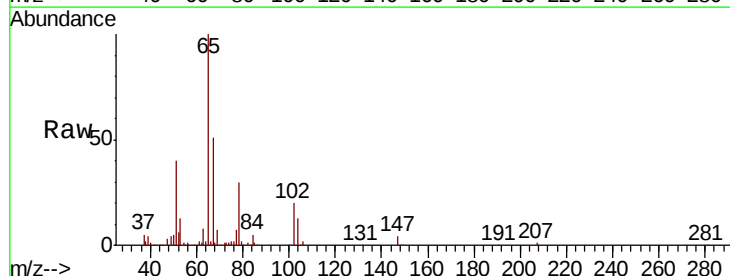


Abundance Ion 97.00 (96.70 to 97.70): VY0
 Ion 99.00 (98.70 to 99.70): VY0
 Ion 61.05 (60.75 to 61.75): VY0

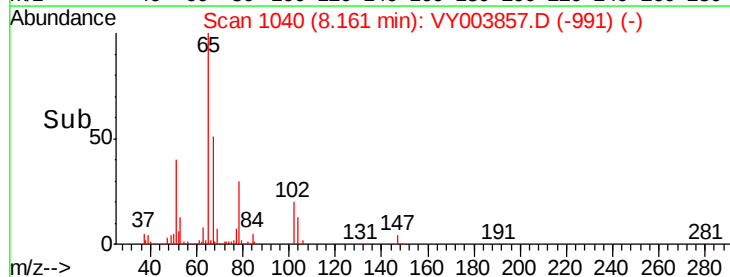
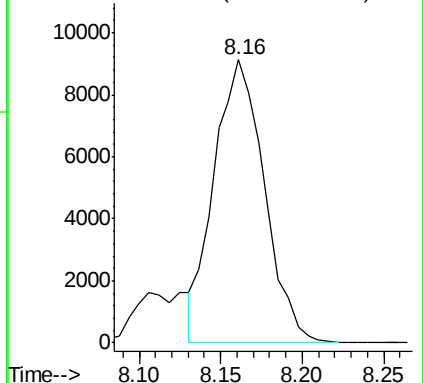


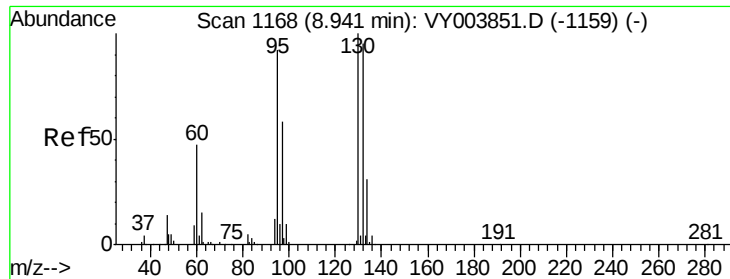
#33
 Benzene
 Concen: 1.056 ug/L
 RT: 8.16 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion: 78 Resp: 19598



Abundance Ion 78.00 (77.70 to 78.70): VY0





#34

Trichloroethene

Concen: 1.109 ug/L

RT: 8.94 min Scan# 1167

Delta R.T. -0.01 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03

Tot Ion: 95 Resp: 5690

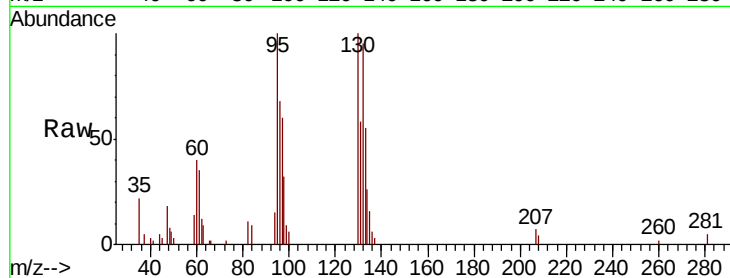
Ion Ratio Lower Upper

95 100

97 59.9 44.4 82.5

132 95.3 71.8 133.4

130 100.3 74.4 138.2

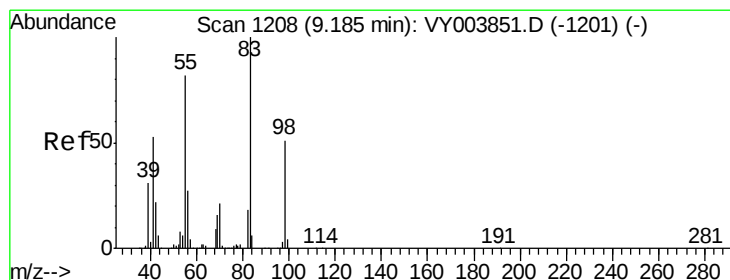
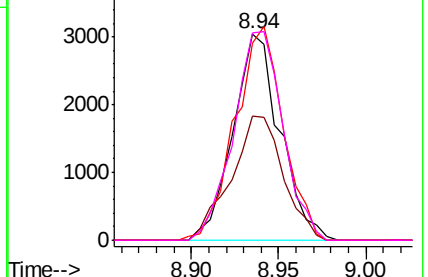
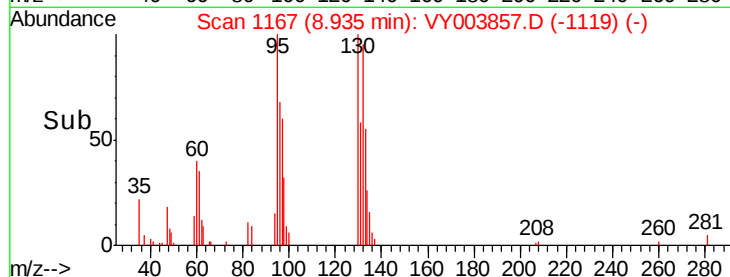


Abundance Ion 95.00 (94.70 to 95.70): VY0

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: 1.035 ug/L

RT: 9.18 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

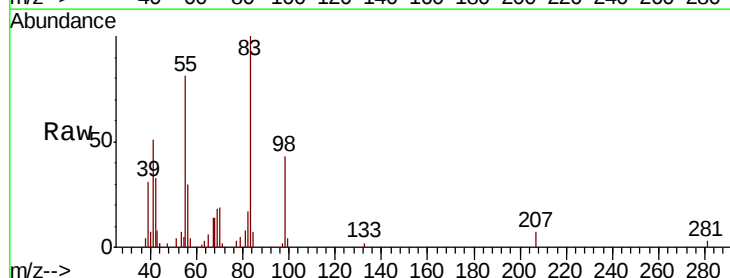
Tgt Ion: 83 Resp: 8642

Ion Ratio Lower Upper

83 100

55 84.0 62.9 94.3

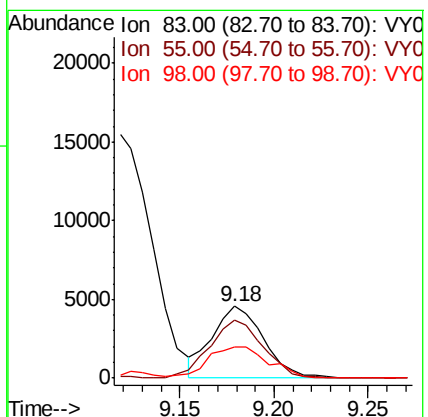
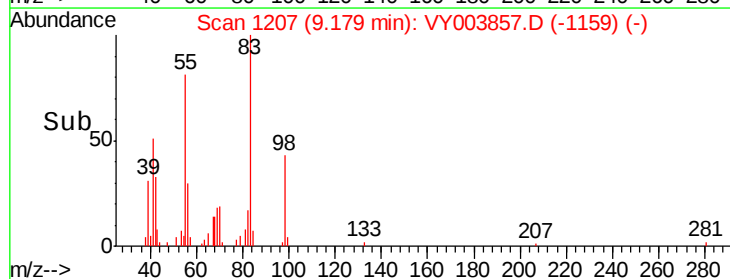
98 51.5 39.7 59.5

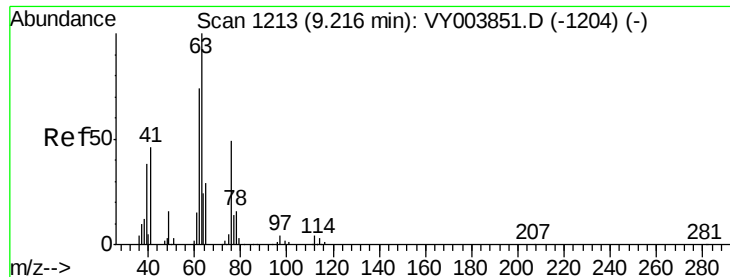


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#37

1,2-Dichloropropane

Concen: 1.103 ug/L

RT: 9.22 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

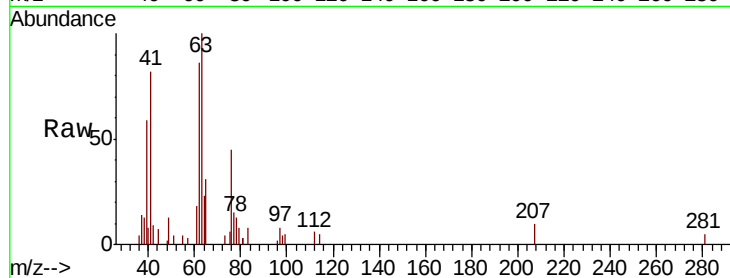
MDL-SOIL-03

Tot Ion: 63 Resp: 5209

Ion Ratio Lower Upper

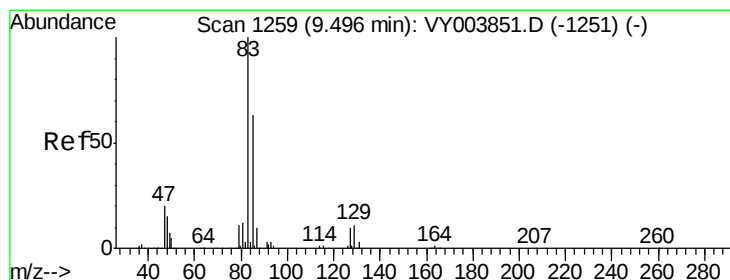
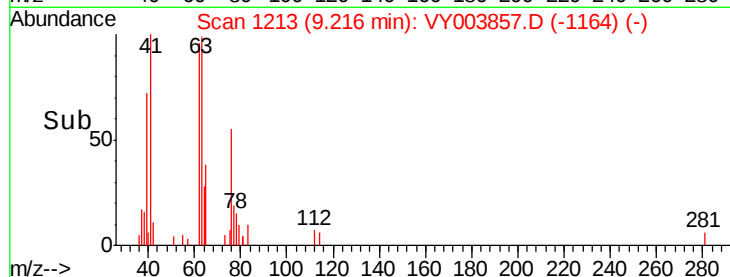
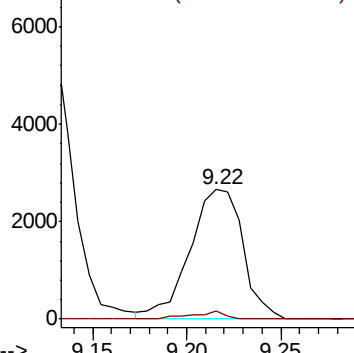
63 100

112 3.7 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: 1.084 ug/L

RT: 9.50 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

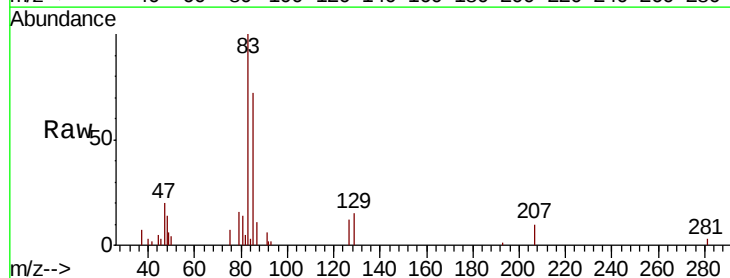
Tgt Ion: 83 Resp: 7218

Ion Ratio Lower Upper

83 100

85 72.2 44.2 82.0

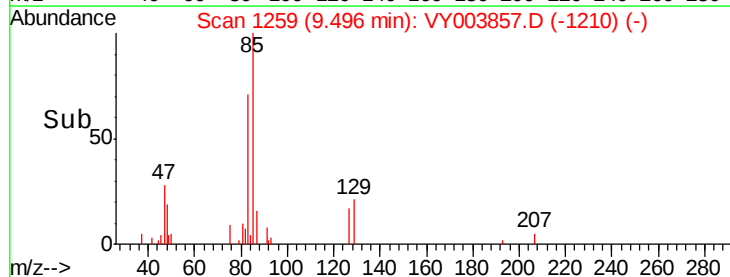
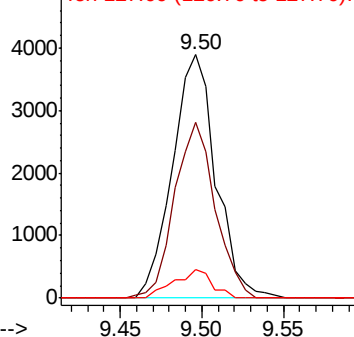
127 11.9 7.3 10.9#

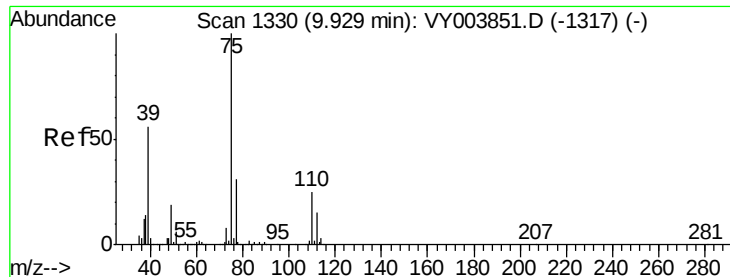


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 85.00 (84.70 to 85.70): VY0

Ion 127.00 (126.70 to 127.70): V



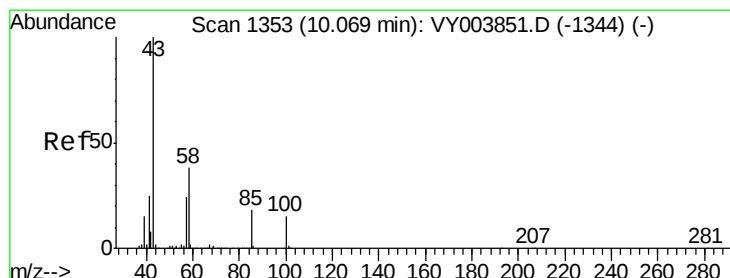
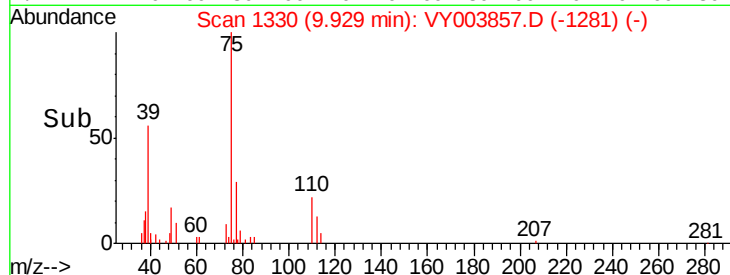
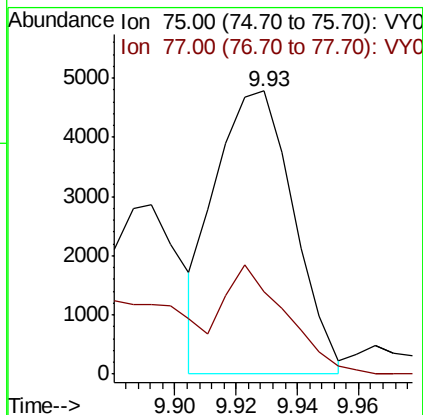
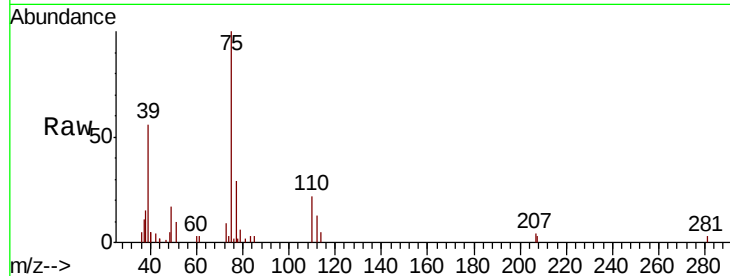


#39

cis-1,3-Dichloropropene
 Concen: 1.053 ug/L
 RT: 9.93 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

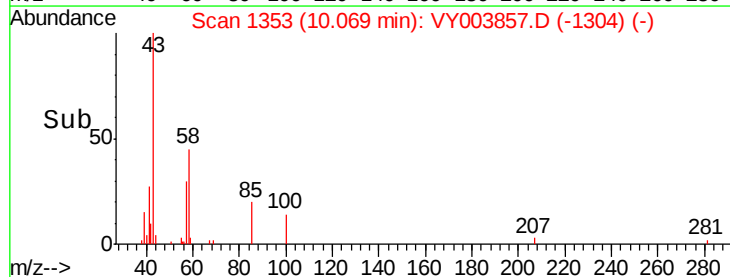
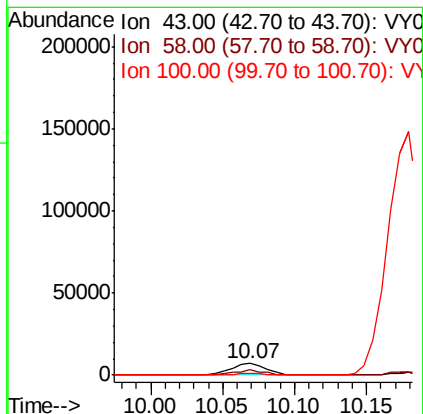
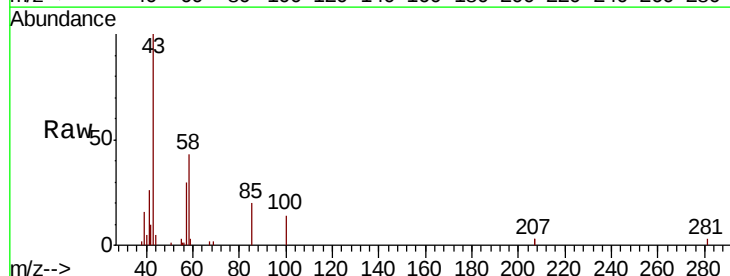
Tot Ion: 75 Resp: 8499
 Ion Ratio Lower Upper
 75 100
 77 29.2 23.0 42.6

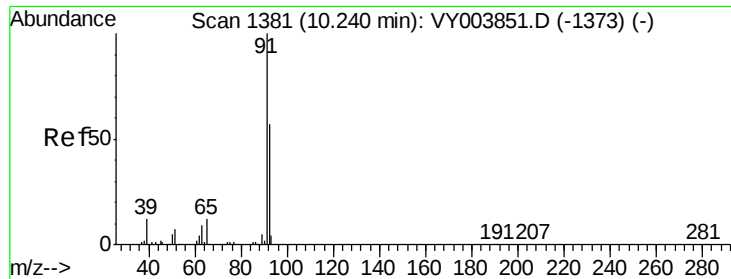


#40

4-Methyl-2-pentanone
 Concen: 2.485 ug/L
 RT: 10.07 min Scan# 1353
 Delta R.T. 0.00 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion: 43 Resp: 12533
 Ion Ratio Lower Upper
 43 100
 58 37.7 29.6 44.4
 100 13.6 11.8 17.6





#42

Toluene

Concen: 1.080 ug/L

RT: 10.24 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

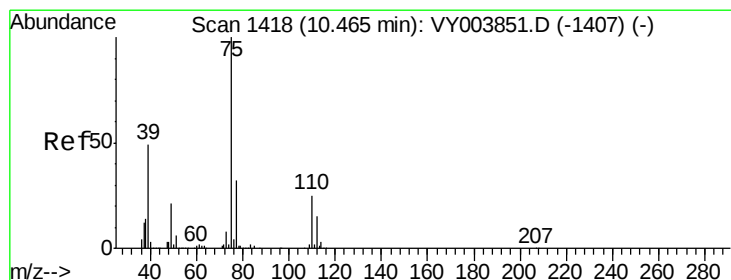
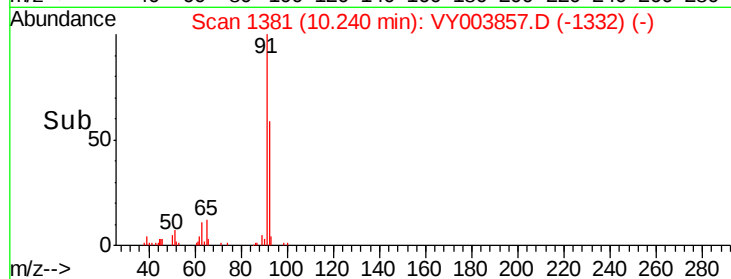
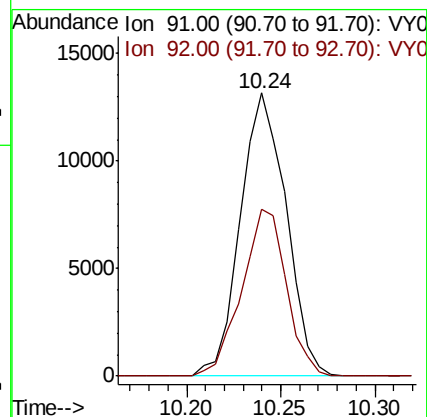
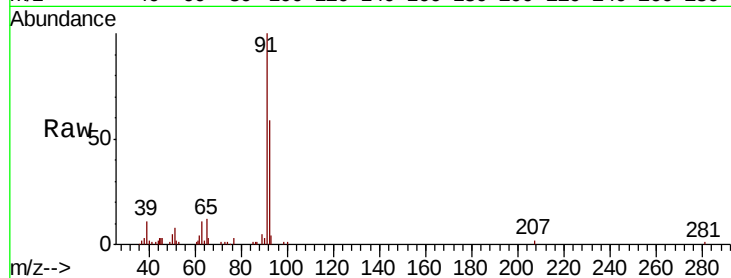
MDL-SOIL-03

Tot Ion: 91 Resp: 22178

Ion Ratio Lower Upper

91 100

92 58.9 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 1.537 ug/L

RT: 10.47 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VY003857.D

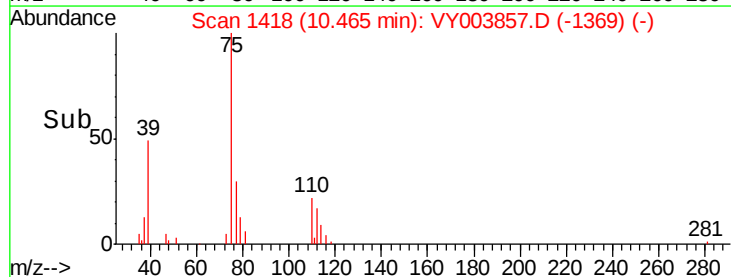
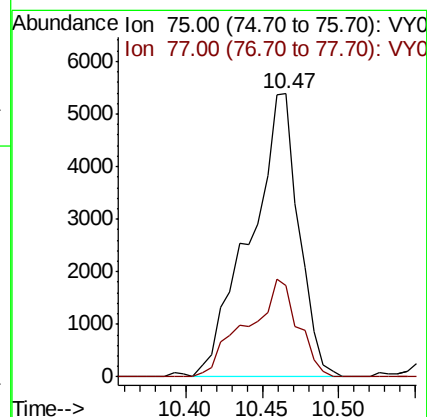
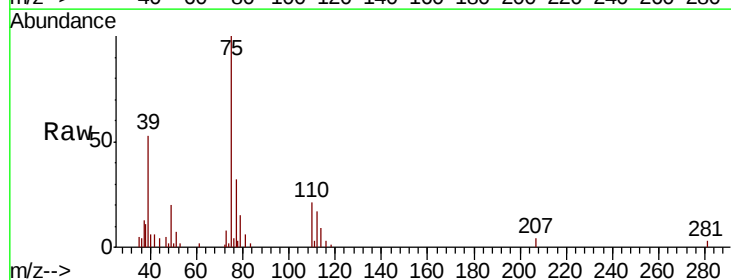
Acq: 29 Dec 2020 17:29

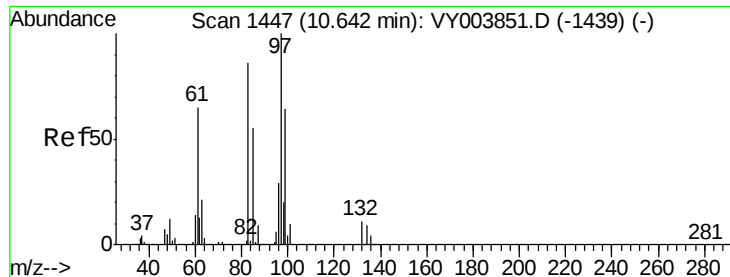
Tgt Ion: 75 Resp: 11977

Ion Ratio Lower Upper

75 100

77 32.1 21.9 40.7

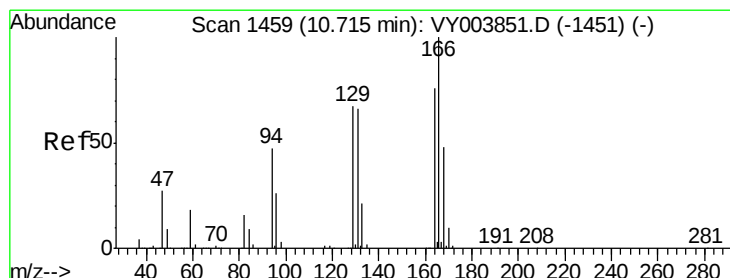
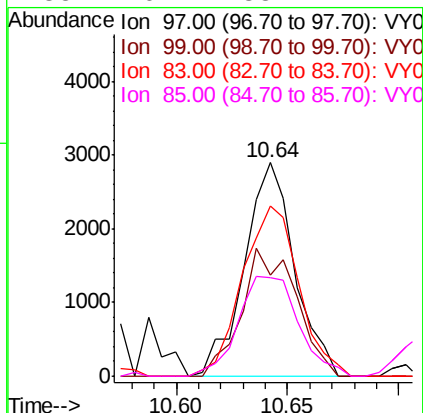
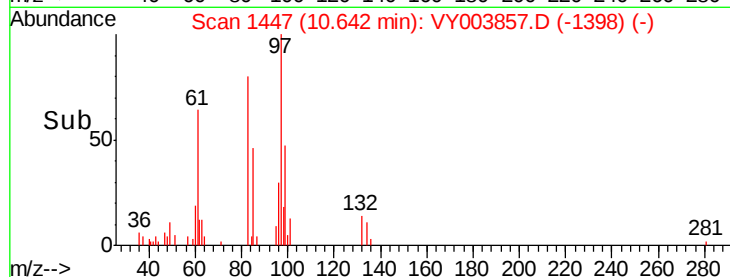
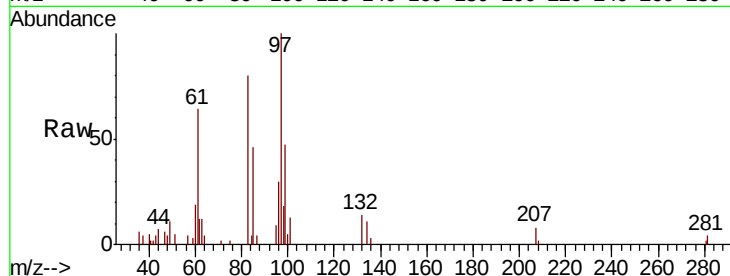




#45
1,1,2-Trichloroethane
Concen: 1.125 ug/L
RT: 10.64 min Scan# 1447
Delta R.T. 0.00 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

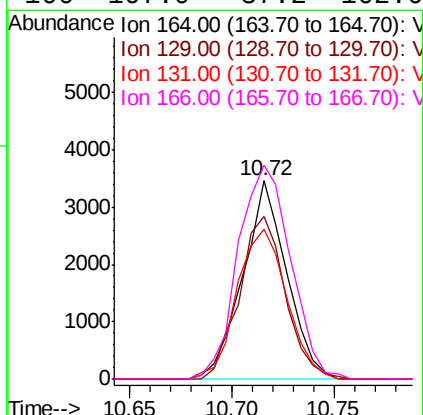
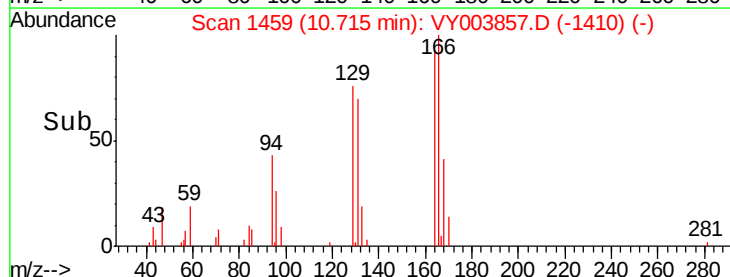
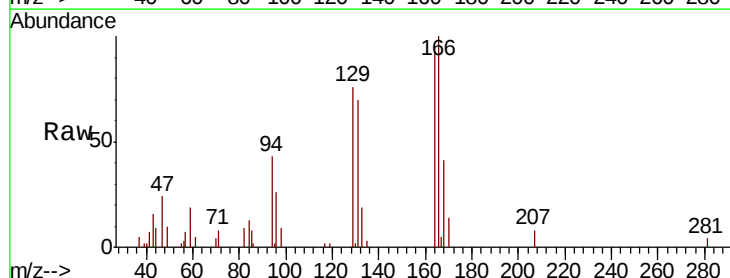
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03

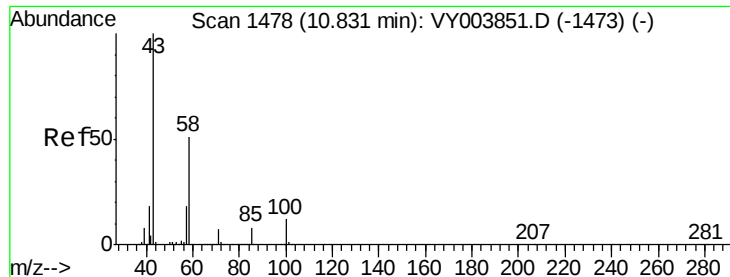
Tot Ion:	97	Resp:	4567
Ion	Ratio	Lower	Upper
97	100		
99	47.2	46.0	85.4
83	79.9	60.8	112.8
85	46.1	38.4	71.2



#46
Tetrachloroethene
Concen: 1.168 ug/L
RT: 10.72 min Scan# 1459
Delta R.T. 0.00 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

Tgt Ion:	164	Resp:	5180
Ion	Ratio	Lower	Upper
164	100		
129	81.8	62.5	116.1
131	75.9	60.7	112.7
166	107.9	87.2	162.0

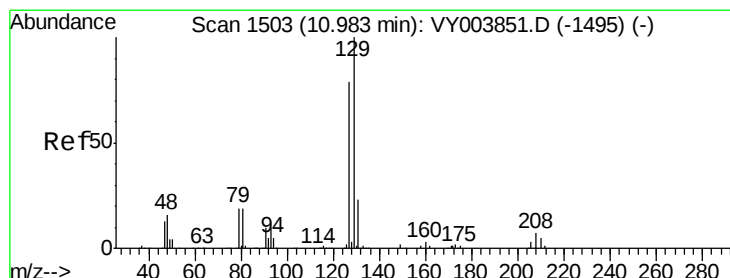
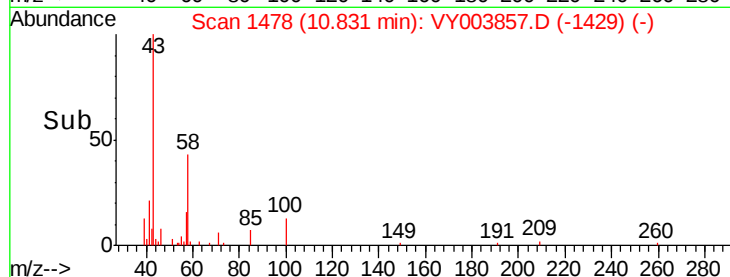
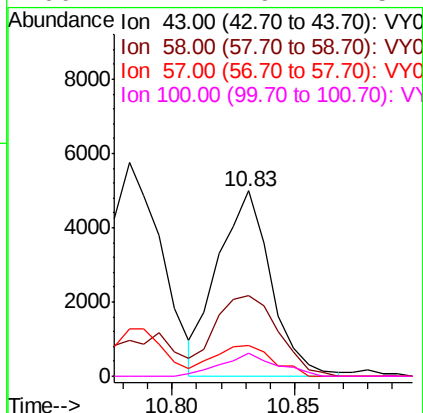
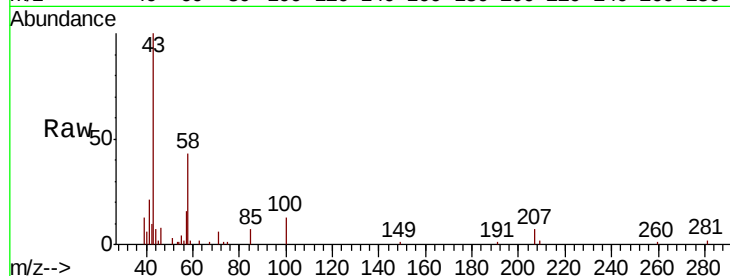




#48
2-Hexanone
Concen: 2.054 ug/L
RT: 10.83 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

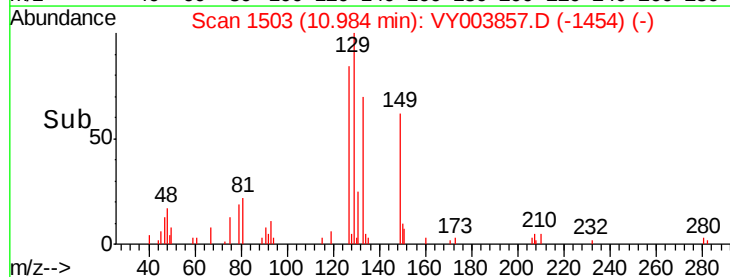
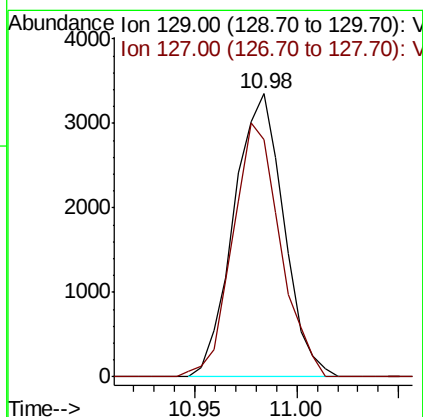
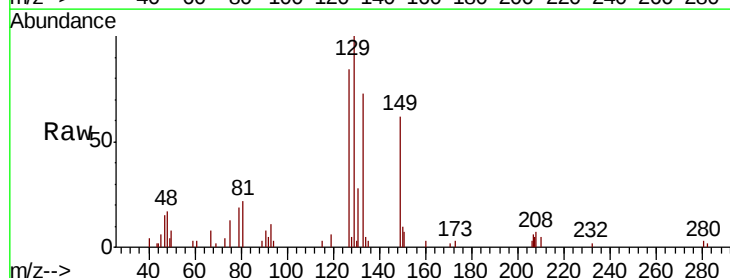
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03

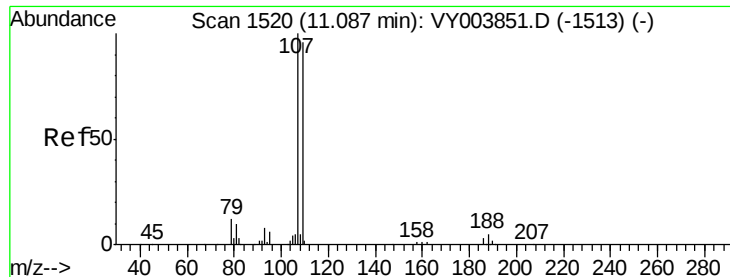
Tot Ion: 43 Resp: 7549
Ion Ratio Lower Upper
43 100
58 51.5 40.6 60.8
57 18.6 14.5 21.7
100 12.7 9.1 13.7



#49
Dibromochloromethane
Concen: 1.108 ug/L
RT: 10.98 min Scan# 1503
Delta R.T. 0.00 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

Tgt Ion: 129 Resp: 5692
Ion Ratio Lower Upper
129 100
127 84.0 52.7 97.9

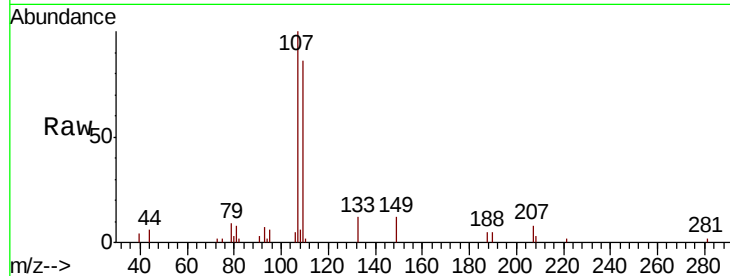




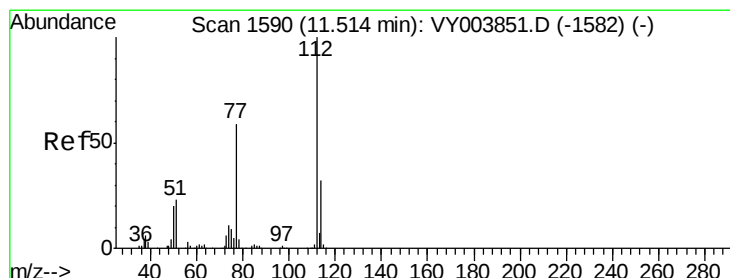
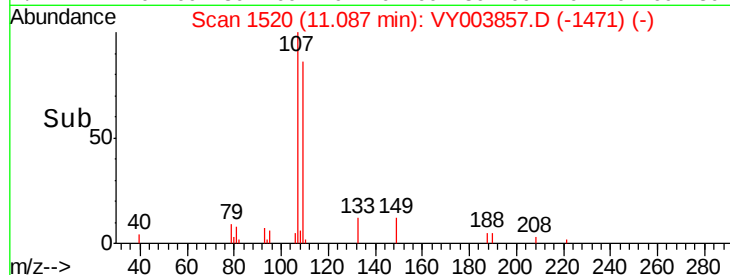
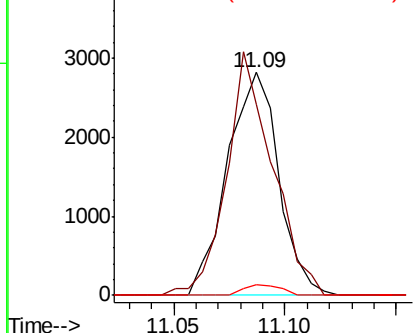
#50
 1,2-Dibromoethane
 Concen: 1.130 ug/L
 RT: 11.09 min Scan# 1520
 Delta R.T. 0.00 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

Tot Ion:107 Resp: 4526
 Ion Ratio Lower Upper
 107 100
 109 85.7 65.5 121.7
 188 4.5 3.6 5.4

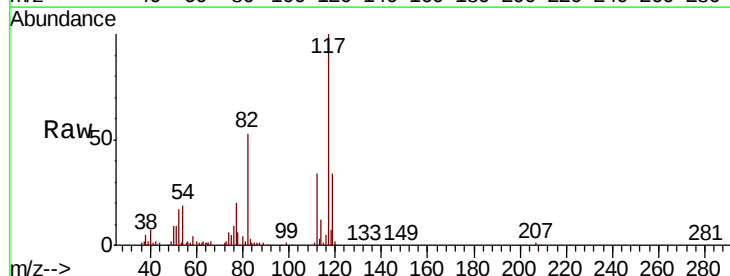


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

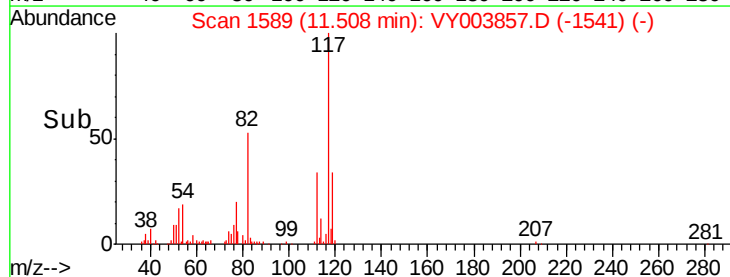
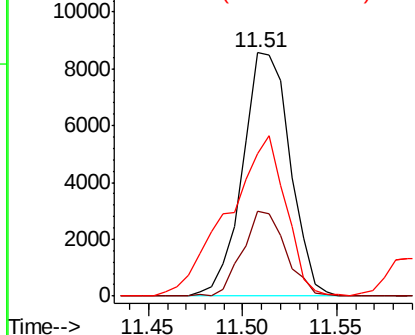


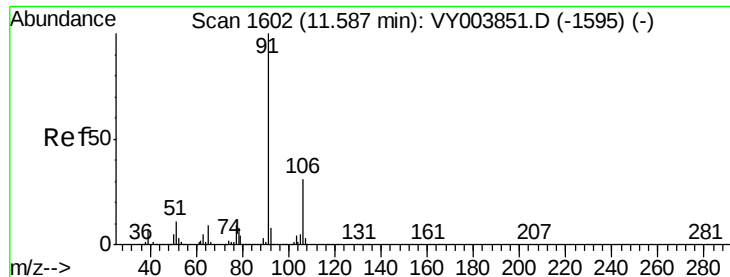
#51
 Chlorobenzene
 Concen: 1.130 ug/L
 RT: 11.51 min Scan# 1589
 Delta R.T. -0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion:112 Resp: 14998
 Ion Ratio Lower Upper
 112 100
 114 35.1 22.5 41.9
 77 58.5 45.2 67.8



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VY0





#52

Ethylbenzene

Concen: 1.068 ug/L

RT: 11.59 min Scan# 1602

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

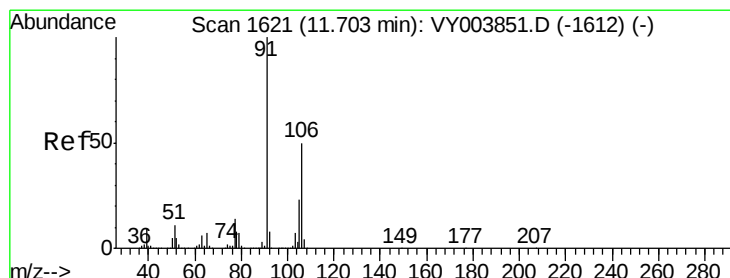
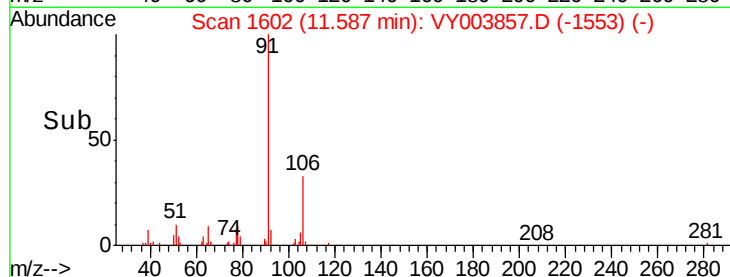
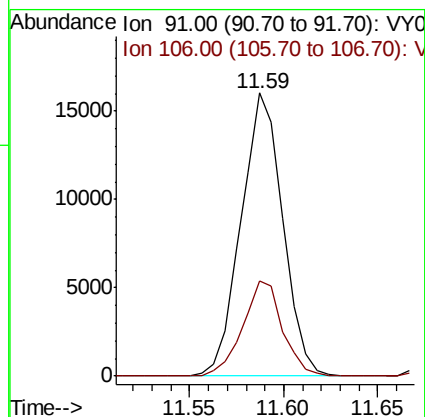
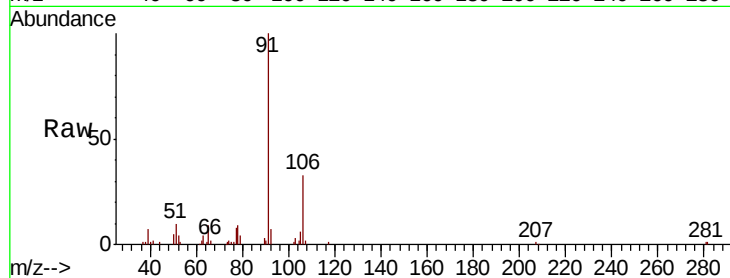
MDL-SOIL-03

Tot Ion: 91 Resp: 24561

Ion Ratio Lower Upper

91 100

106 33.5 21.6 40.0



#53

m,p-Xylene

Concen: 1.023 ug/L

RT: 11.70 min Scan# 1620

Delta R.T. -0.01 min

Lab File: VY003857.D

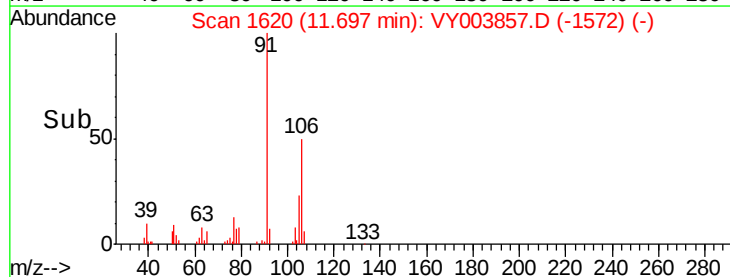
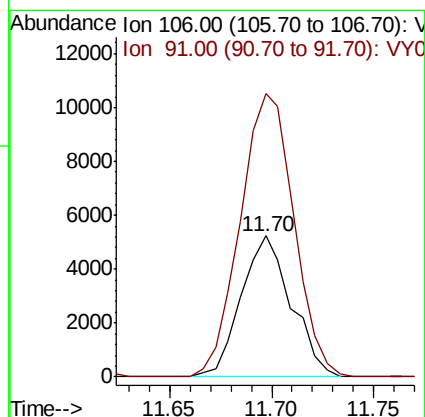
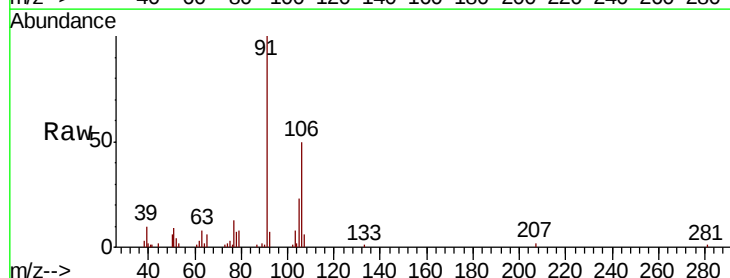
Acq: 29 Dec 2020 17:29

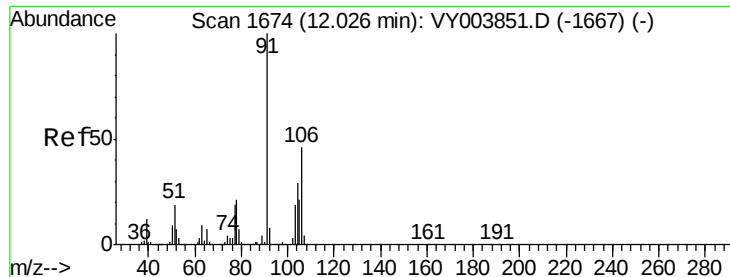
Tgt Ion: 106 Resp: 8922

Ion Ratio Lower Upper

106 100

91 201.0 146.3 271.7





#54

o-Xylene

Concen: 1.037 ug/L

RT: 12.02 min Scan# 1673

Delta R.T. -0.01 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

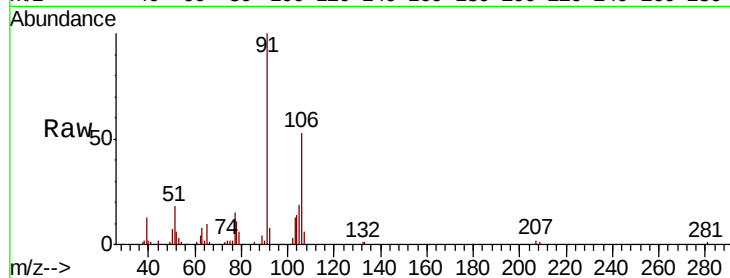
MDL-SOIL-03

Tot Ion:106 Resp: 8806

Ion Ratio Lower Upper

106 100

91 189.9 147.7 274.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0

12.02

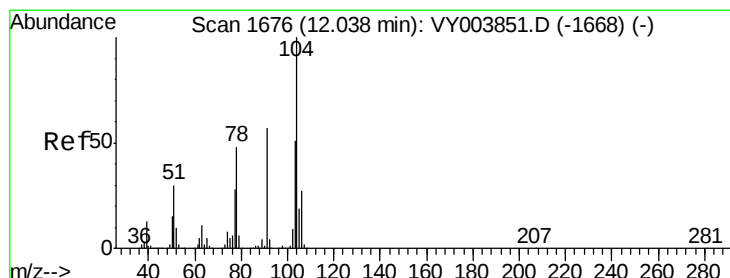
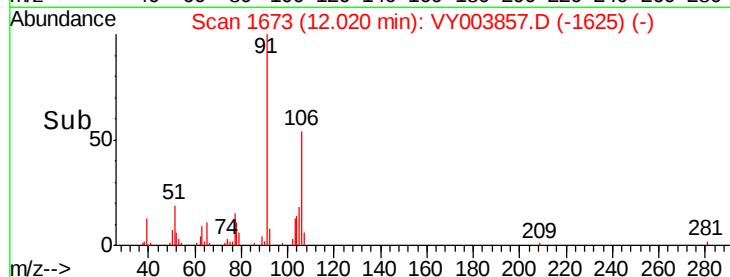
10000

5000

0

Time-->

12.00 12.05



#55

Styrene

Concen: 0.985 ug/L

RT: 12.04 min Scan# 1676

Delta R.T. 0.00 min

Lab File: VY003857.D

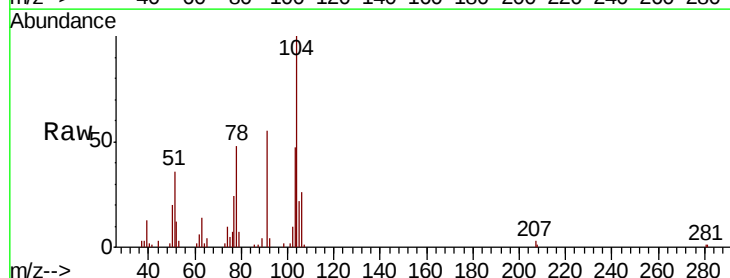
Acq: 29 Dec 2020 17:29

Tgt Ion:104 Resp: 14468

Ion Ratio Lower Upper

104 100

78 47.7 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VY0

12.04

10000

8000

6000

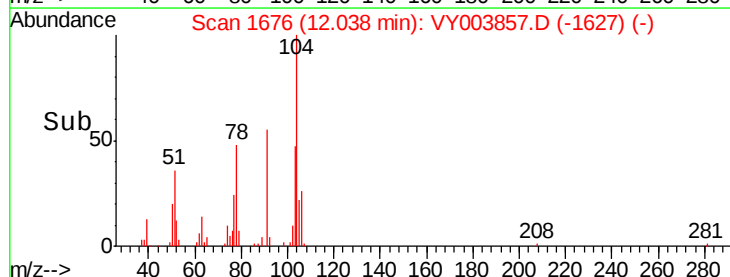
4000

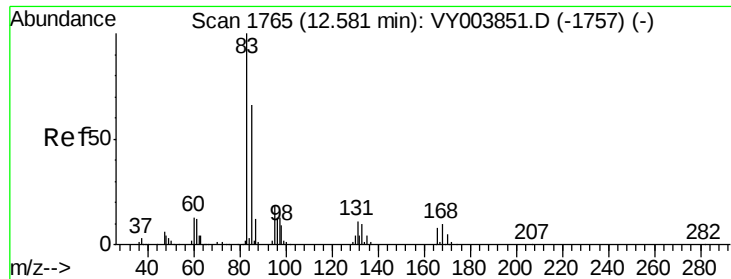
2000

0

Time-->

12.00 12.05 12.10





#57

1,1,2,2-Tetrachloroethane

Concen: 1.291 ug/L

RT: 12.57 min Scan# 1764

Delta R.T. -0.01 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03

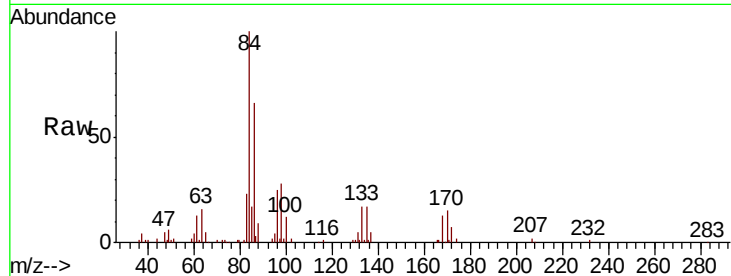
Tot Ion: 83 Resp: 6198

Ion Ratio Lower Upper

83 100

85 72.8 44.9 83.3

131 20.0 9.0 13.6#



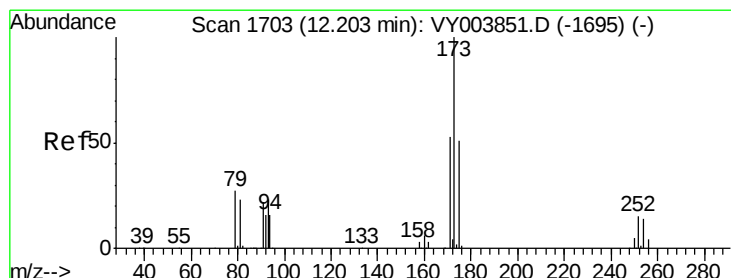
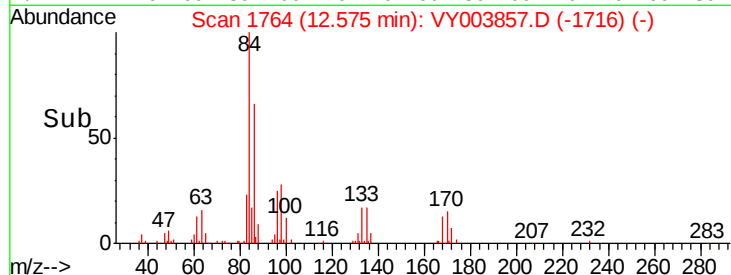
Abundance Ion 83.00 (82.70 to 83.70): VY003857.D (-1757) (-)

Ion 85.00 (84.70 to 85.70): VY003857.D (-1757) (-)

Ion 131.00 (130.70 to 131.70): VY003857.D (-1757) (-)

12.57

Time-->



#59

Bromoform

Concen: 1.180 ug/L

RT: 12.20 min Scan# 1702

Delta R.T. -0.01 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

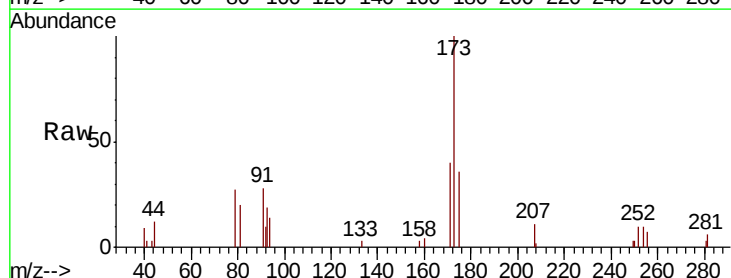
Tgt Ion: 173 Resp: 4217

Ion Ratio Lower Upper

173 100

175 49.5 38.9 58.3

254 8.4 11.5 17.3#



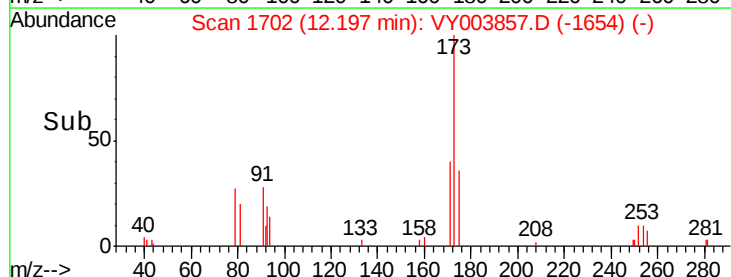
Abundance Ion 173.00 (172.70 to 173.70): VY003857.D (-1695) (-)

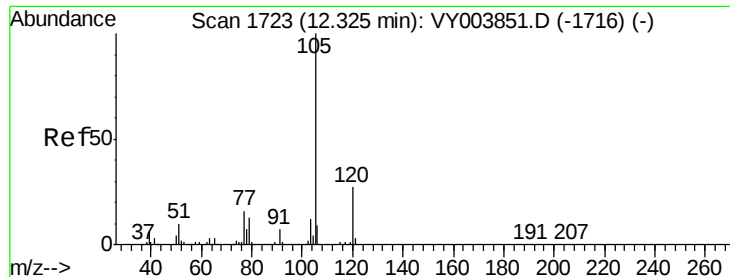
Ion 175.00 (174.70 to 175.70): VY003857.D (-1695) (-)

Ion 254.00 (253.70 to 254.70): VY003857.D (-1695) (-)

12.20

Time-->





#60

Isopropylbenzene

Concen: 1.053 ug/L

RT: 12.32 min Scan# 1723

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03

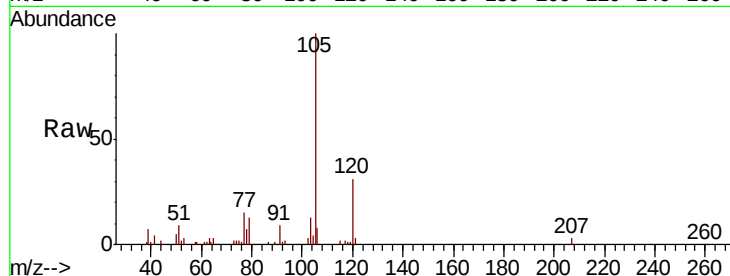
Tot Ion:105 Resp: 23061

Ion Ratio Lower Upper

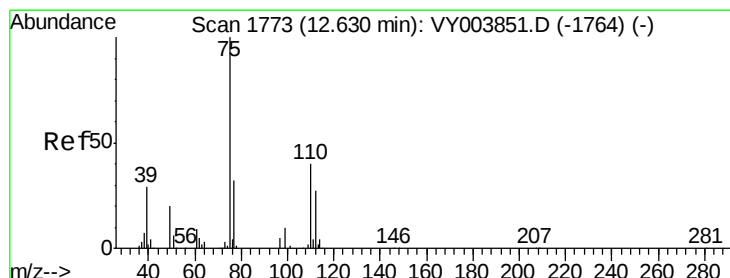
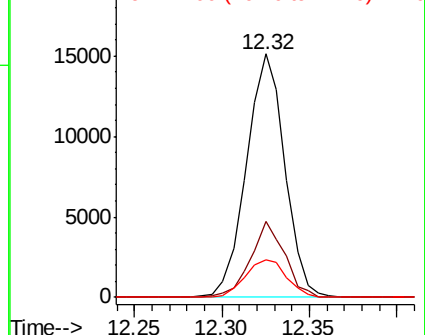
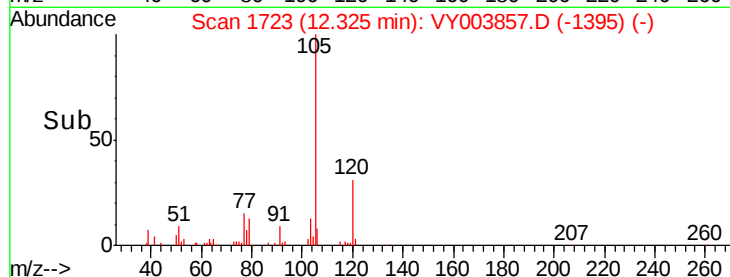
105 100

120 27.9 21.7 32.5

77 16.6 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): VY003857.D (-1395) (-)



#61

1,2,3-Trichloropropane

Concen: 1.218 ug/L

RT: 12.63 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

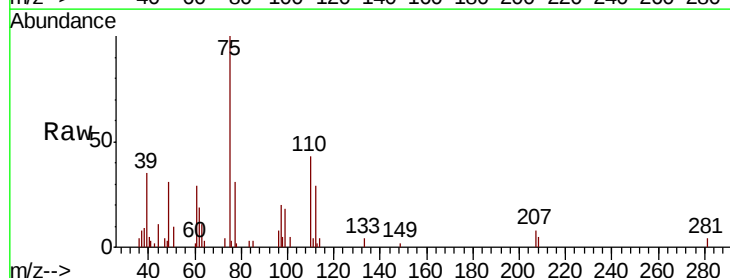
Tgt Ion: 75 Resp: 4954

Ion Ratio Lower Upper

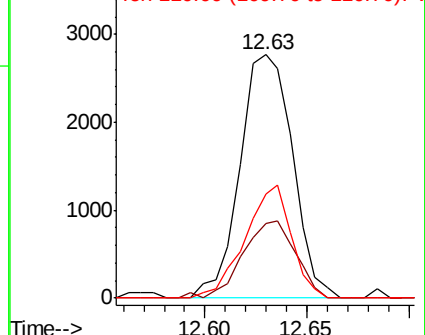
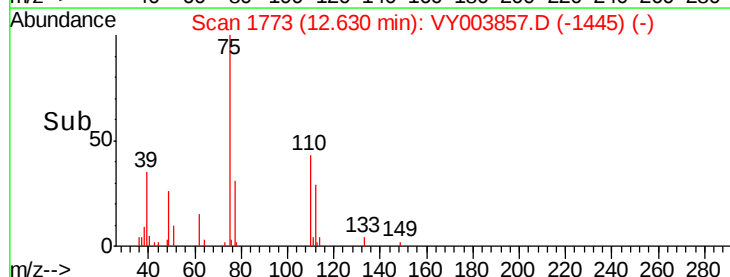
75 100

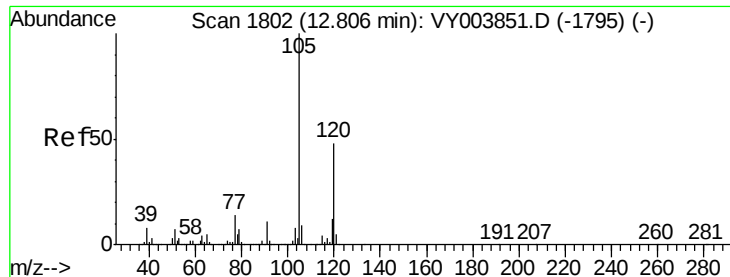
77 31.4 26.2 39.4

110 40.8 32.4 48.6



Abundance Ion 75.00 (74.70 to 75.70): VY003857.D (-1445) (-)





#62

1,3,5-Trimethylbenzene

Concen: 1.056 ug/L

RT: 12.81 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

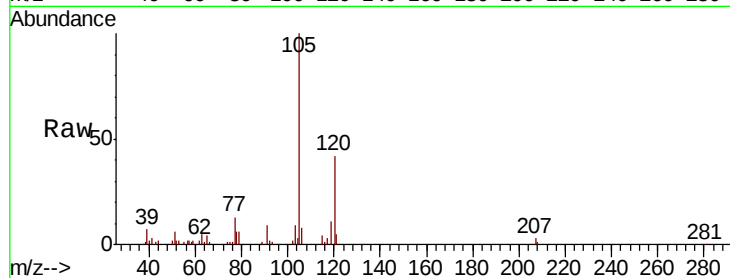
MDL-SOIL-03

Tot Ion:105 Resp: 19204

Ion Ratio Lower Upper

105 100

120 50.9 39.0 58.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

15000

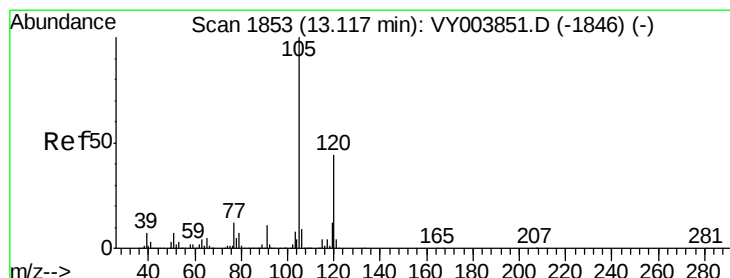
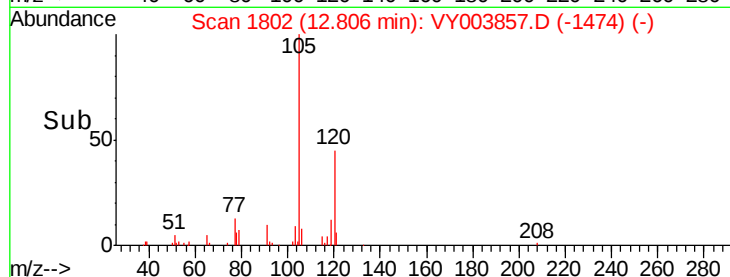
10000

5000

0

12.75 12.80 12.85

Time-->



#63

1,2,4-Trimethylbenzene

Concen: 1.050 ug/L

RT: 13.12 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VY003857.D

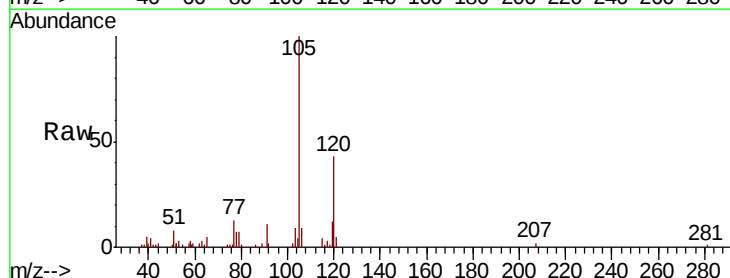
Acq: 29 Dec 2020 17:29

Tgt Ion:105 Resp: 19344

Ion Ratio Lower Upper

105 100

120 44.2 36.5 54.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

15000

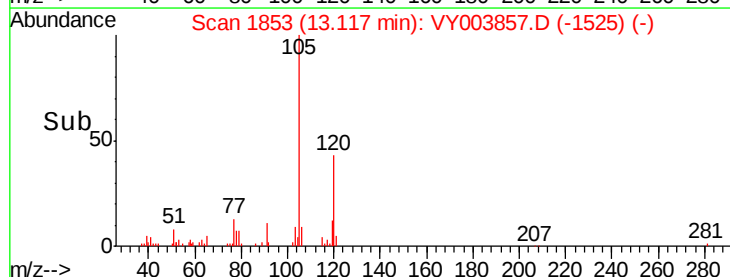
10000

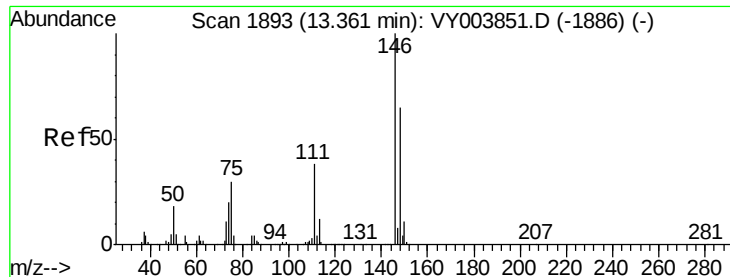
5000

0

13.05 13.10 13.15

Time-->





#64

1,3-Dichlorobenzene

Concen: 1.150 ug/L

RT: 13.36 min Scan# 1893

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03

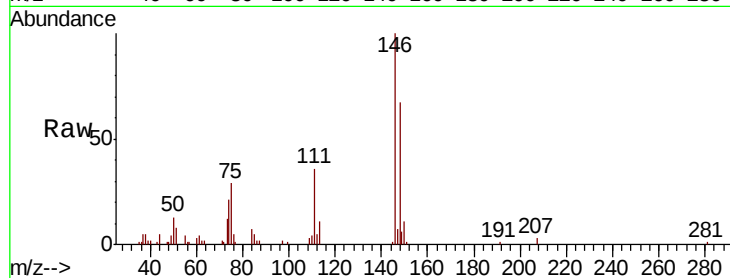
Tot Ion:146 Resp: 12195

Ion Ratio Lower Upper

146 100

111 35.9 27.7 51.5

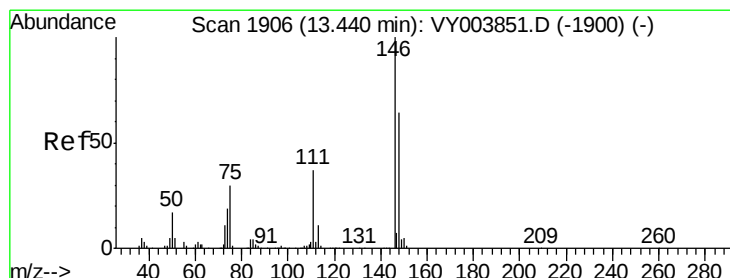
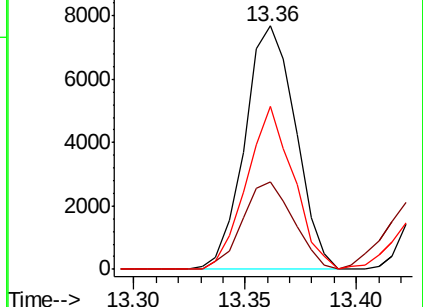
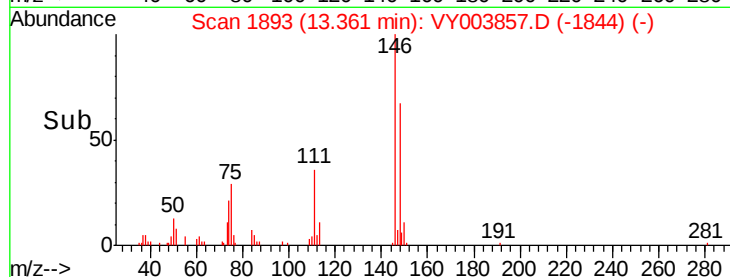
148 66.7 45.4 84.4



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: 1.164 ug/L

RT: 13.44 min Scan# 1906

Delta R.T. 0.00 min

Lab File: VY003857.D

Acq: 29 Dec 2020 17:29

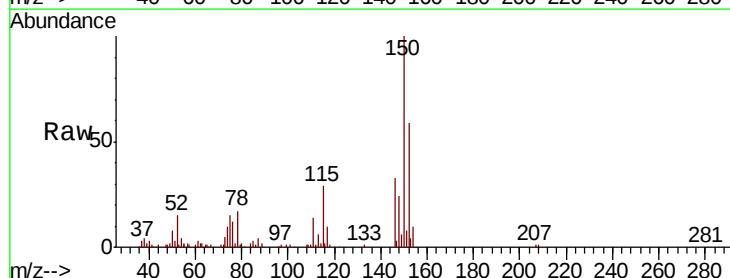
Tgt Ion:146 Resp: 12502

Ion Ratio Lower Upper

146 100

111 41.1 25.7 47.7

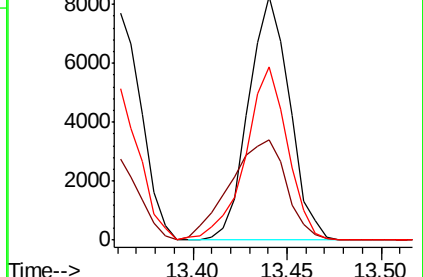
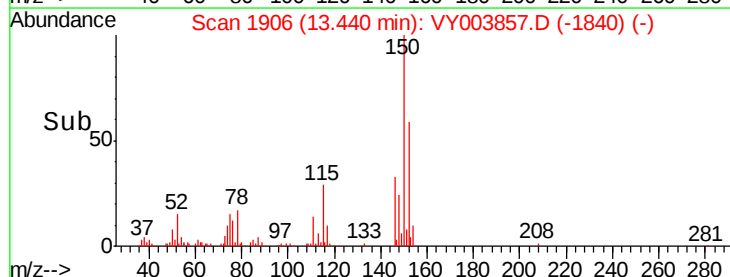
148 71.2 44.4 82.4

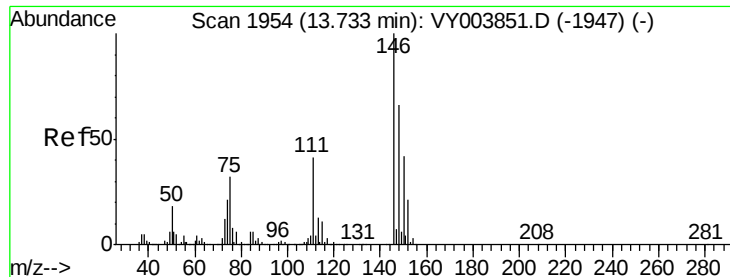


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

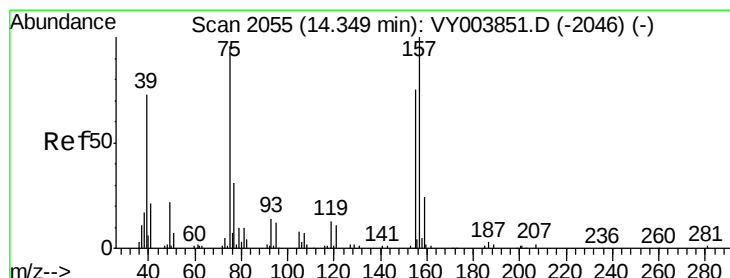
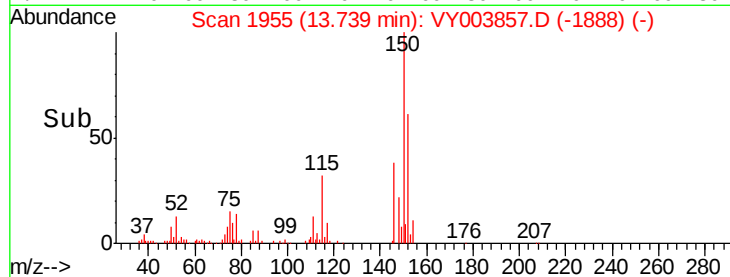
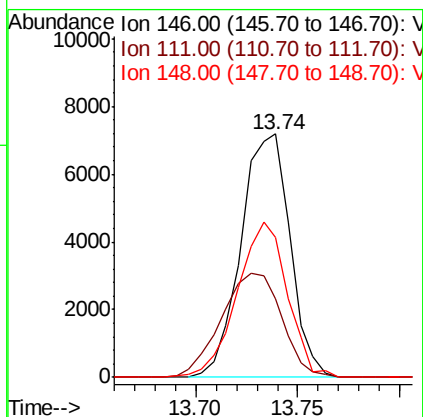
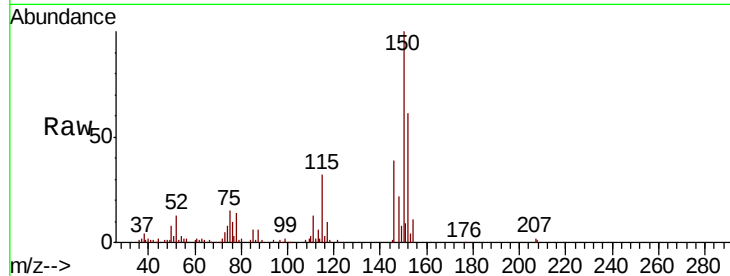




#67
 1,2-Dichlorobenzene
 Concen: 1.209 ug/L
 RT: 13.74 min Scan# 1955
 Delta R.T. 0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

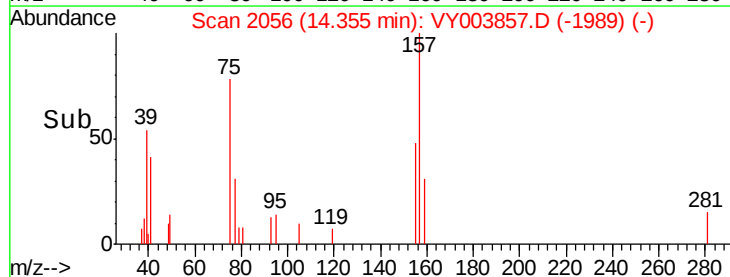
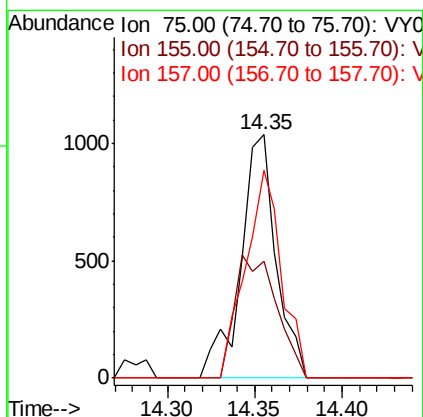
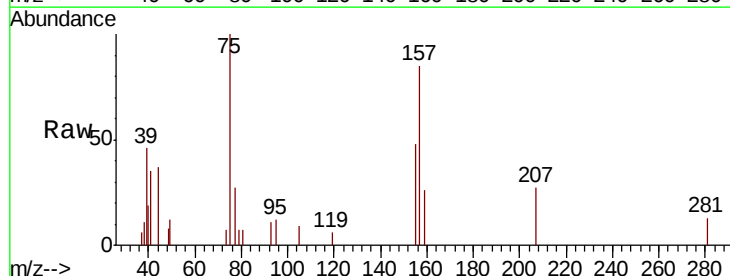
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

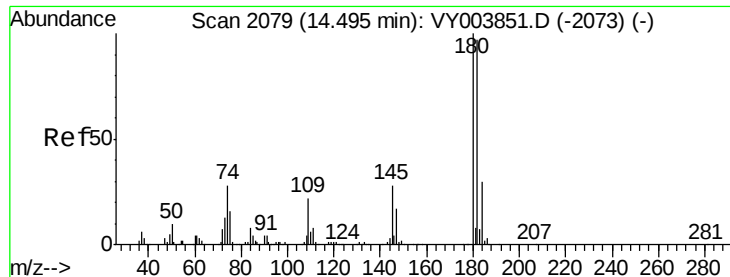
Tot Ion	Ratio	Lower	Upper
146	100		
111	32.2	31.3	46.9
148	57.3	51.0	76.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.435 ug/L
 RT: 14.35 min Scan# 2056
 Delta R.T. 0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	47.8	68.2	102.4#
157	85.2	90.2	135.4#

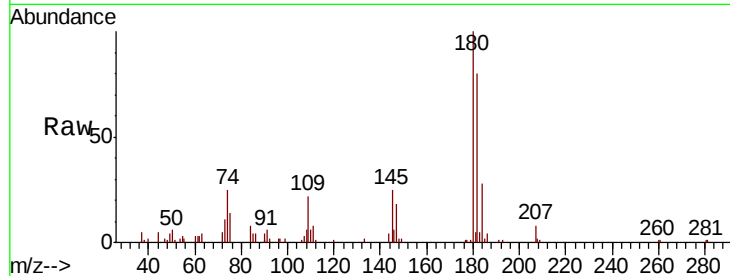




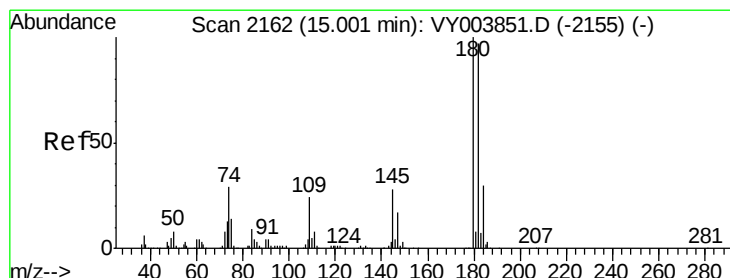
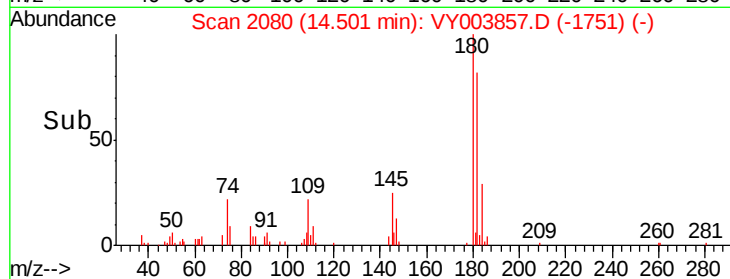
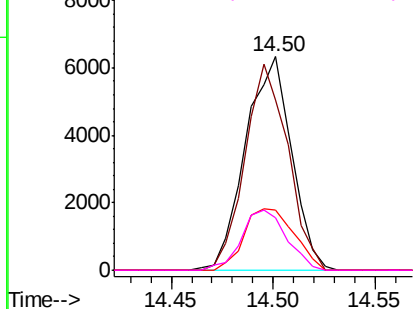
#69
 1,3,5-Trichlorobenzene
 Concen: 1.200 ug/L
 RT: 14.50 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03

Tot Ion:180 Resp: 9917
 Ion Ratio Lower Upper
 180 100
 182 90.3 75.6 113.4
 184 31.2 24.9 37.3
 145 27.8 21.8 32.6

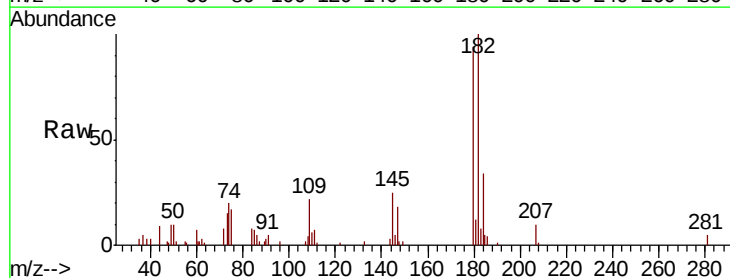


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

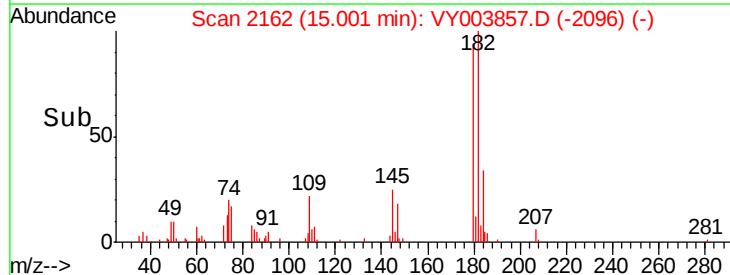
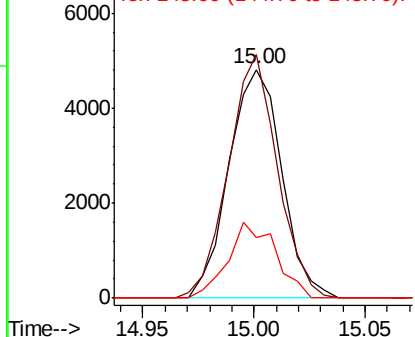


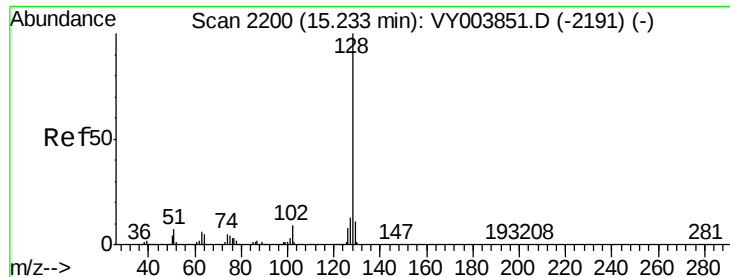
#70
 1,2,4-trichlorobenzene
 Concen: 1.134 ug/L
 RT: 15.00 min Scan# 2162
 Delta R.T. 0.00 min
 Lab File: VY003857.D
 Acq: 29 Dec 2020 17:29

Tgt Ion:180 Resp: 7945
 Ion Ratio Lower Upper
 180 100
 182 98.7 76.1 114.1
 145 29.8 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

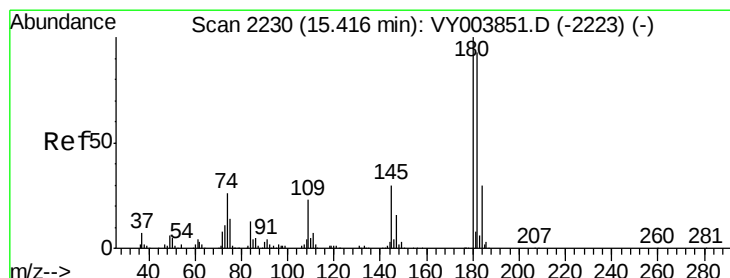
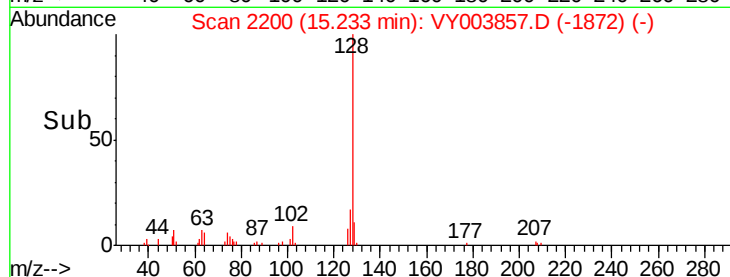
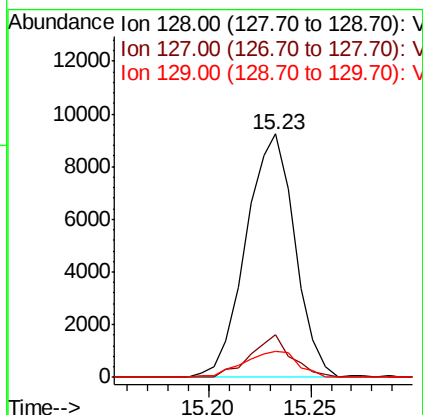
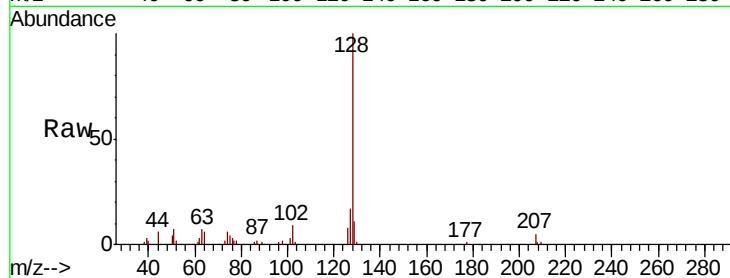




#71
Naphthalene
Concen: 1.052 ug/L
RT: 15.23 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03

Tot Ion:128 Resp: 15389
Ion Ratio Lower Upper
128 100
127 14.5 10.7 16.1
129 12.0 8.9 13.3



#72
1,2,3-Trichlorobenzene
Concen: 1.160 ug/L
RT: 15.42 min Scan# 2230
Delta R.T. 0.00 min
Lab File: VY003857.D
Acq: 29 Dec 2020 17:29

Tgt Ion:180 Resp: 7179
Ion Ratio Lower Upper
180 100
182 97.8 74.6 111.8
145 31.3 23.3 34.9

