

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110320\
 Data File : VY003486.D
 Acq On : 03 Nov 2020 12:54
 Operator : SY/MD
 Sample : L4214-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

Quant Time: Nov 04 01:20:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y110220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 01:18:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	231682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	336461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	300625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	151063	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	122175	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
35) Dibromofluoromethane	7.73	113	106105	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
50) Toluene-d8	10.18	98	434253	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.48	95	141108	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.91	85	8175	4.460	ug/l	97
3) Chloromethane	2.12	50	10831	4.488	ug/l	97
4) Vinyl Chloride	2.26	62	12070	4.456	ug/l	97
5) Bromomethane	2.66	94	9315	4.116	ug/l	94
6) Chloroethane	2.80	64	7064	4.375	ug/l	100
7) Trichlorofluoromethane	3.13	101	15221	4.427	ug/l	97
8) Diethyl Ether	3.55	74	4533	4.299	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.91	101	8324	4.380	ug/l	99
10) Methyl Iodide	4.10	142	7636	4.869	ug/l	98
11) Tert butyl alcohol	4.95	59	11676	43.541	ug/l #	80
12) 1,1-Dichloroethene	3.88	96	8314	4.397	ug/l	96
13) Acrolein	3.74	56	4217	21.394	ug/l	99
14) Allyl chloride	4.49	41	14339	4.157	ug/l	99
15) Acrylonitrile	5.18	53	11462	20.365	ug/l	99
16) Acetone	3.96	43	14962	19.096	ug/l	92
17) Carbon Disulfide	4.21	76	26911	4.393	ug/l	99
18) Methyl Acetate	4.49	43	6723	4.540	ug/l	99
19) Methyl tert-butyl Ether	5.23	73	19616	4.189	ug/l	97
20) Methylene Chloride	4.73	84	15118	6.851	ug/l	99
21) trans-1,2-Dichloroethene	5.24	96	9377	4.283	ug/l	98
22) Diisopropyl ether	6.13	45	25228	4.170	ug/l	97
23) Vinyl Acetate	6.08	43	86262	18.972	ug/l	97
24) 1,1-Dichloroethane	6.04	63	16397	4.265	ug/l	100
25) 2-Butanone	7.00	43	19339	19.734	ug/l #	88
26) 2,2-Dichloropropane	6.99	77	16335	4.560	ug/l	95
27) cis-1,2-Dichloroethene	7.00	96	10271	4.329	ug/l	96
28) Bromochloromethane	7.35	49	8378	4.331	ug/l	95
29) Tetrahydrofuran	7.36	42	10401	20.312	ug/l	98
30) Chloroform	7.52	83	16348	4.329	ug/l	96
31) Cyclohexane	7.80	56	18666	5.243	ug/l #	82
32) 1,1,1-Trichloroethane	7.71	97	15481	4.394	ug/l	99
36) 1,1-Dichloropropene	7.93	75	13603	4.288	ug/l	99
37) Ethyl Acetate	7.08	43	8204	4.165	ug/l	96
38) Carbon Tetrachloride	7.91	117	13354	4.058	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	14625	4.140	ug/l	93
40) Benzene	8.17	78	37537	4.252	ug/l	98
41) Methacrylonitrile	7.36	41	10243	9.737	ug/l #	100
42) 1,2-Dichloroethane	8.25	62	11782	4.259	ug/l	100
43) Isopropyl Acetate	8.28	43	13907	3.928	ug/l	98
44) Trichloroethene	8.94	130	10620	4.285	ug/l	99
45) 1,2-Dichloropropane	9.22	63	9487	4.255	ug/l	96
46) Dibromomethane	9.32	93	5238	4.271	ug/l	97
47) Bromodichloromethane	9.50	83	12489	4.160	ug/l #	98
48) Methyl methacrylate	9.30	41	6170	3.700	ug/l #	93
49) 1,4-Dioxane	9.31	88	1259	82.265	ug/l	95
51) 4-Methyl-2-Pentanone	10.07	43	39346	20.860	ug/l	98
52) Toluene	10.25	92	23180	4.198	ug/l	100
53) t-1,3-Dichloropropene	10.47	75	12889	4.034	ug/l	93
54) cis-1,3-Dichloropropene	9.93	75	14408	4.008	ug/l	94
55) 1,1,2-Trichloroethane	10.64	97	7349	4.221	ug/l	96
56) Ethyl methacrylate	10.51	69	8596	3.686	ug/l	94
57) 1,3-Dichloropropane	10.79	76	12819	4.234	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.78	63	24219	20.485	ug/l	100
59) 2-Hexanone	10.83	43	24867	17.806	ug/l	99
60) Dibromochloromethane	10.99	129	8778	4.102	ug/l	100
61) 1,2-Dibromoethane	11.09	107	6769	4.027	ug/l	99
64) Tetrachloroethene	10.72	164	9839	4.382	ug/l	97
65) Chlorobenzene	11.52	112	25308	4.333	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.59	131	8982	4.078	ug/l	95
67) Ethyl Benzene	11.60	91	43578	4.115	ug/l	97
68) m/p-Xylenes	11.70	106	32425	8.080	ug/l	98
69) o-Xylene	12.03	106	14640	3.966	ug/l	97
70) Styrene	12.05	104	23741	3.788	ug/l	97
71) Bromoform	12.20	173	5764	3.926	ug/l #	99
73) Isopropylbenzene	12.33	105	41059	4.161	ug/l	99
74) N-amyl acetate	12.14	43	11023	3.944	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.58	83	8637	4.098	ug/l	97
76) 1,2,3-Trichloropropane	12.63	75	11821	7.396	ug/l #	100
77) Bromobenzene	12.61	156	10570	4.216	ug/l	96
78) n-propylbenzene	12.67	91	48601	4.181	ug/l	98
79) 2-Chlorotoluene	12.76	91	27465	4.229	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	34126	4.174	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	3040	3.970	ug/l	94
82) 4-Chlorotoluene	12.85	91	29304	4.318	ug/l	100
83) tert-Butylbenzene	13.08	119	30216	4.167	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	33440	4.092	ug/l	99
85) sec-Butylbenzene	13.25	105	40761	4.151	ug/l	97
86) p-Isopropyltoluene	13.37	119	36060	3.960	ug/l	99
87) 1,3-Dichlorobenzene	13.36	146	20076	4.298	ug/l	98
88) 1,4-Dichlorobenzene	13.44	146	20222	4.354	ug/l	93
89) n-Butylbenzene	13.69	91	33774	4.061	ug/l	99
90) Hexachloroethane	13.95	117	6261	4.086	ug/l	94
91) 1,2-Dichlorobenzene	13.74	146	17631	4.249	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1641	4.301	ug/l	87

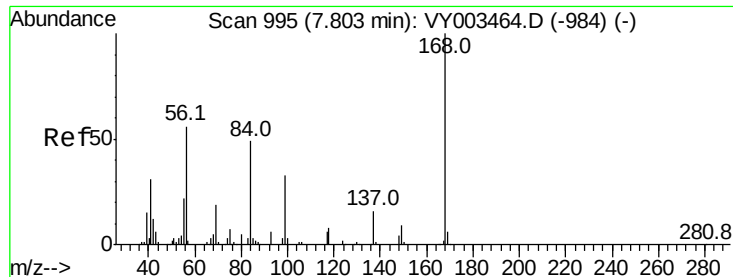
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	12717	4.333	ug/l	96
94) Hexachlorobutadiene	15.11	225	8936	4.733	ug/l	97
95) Naphthalene	15.23	128	22302	3.795	ug/l	98
96) 1,2,3-Trichlorobenzene	15.42	180	11198	4.242	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

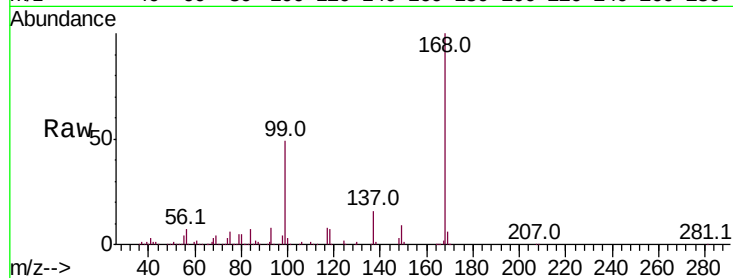
MDL-SOIL-03-QT4-2020

Tot Ion:168 Resp: 231682

Ion Ratio Lower Upper

168 100

99 49.0 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): VY003486.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY003486.D (-946) (-)

7.80

120000

100000

80000

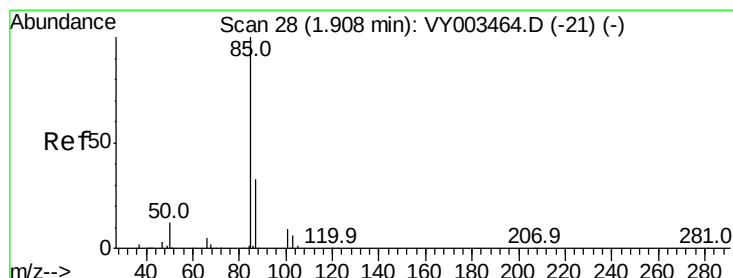
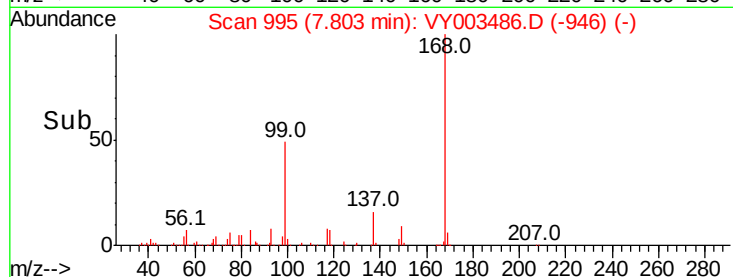
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 4.460 ug/l

RT: 1.91 min Scan# 28

Delta R.T. 0.00 min

Lab File: VY003486.D

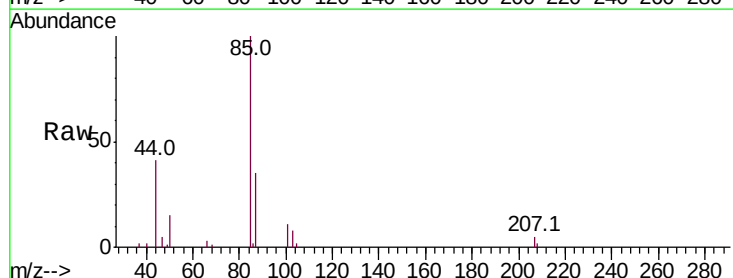
Acq: 03 Nov 2020 12:54

Tgt Ion: 85 Resp: 8175

Ion Ratio Lower Upper

85 100

87 34.6 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VY003486.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VY003486.D (-1) (-)

1.91

6000

5000

4000

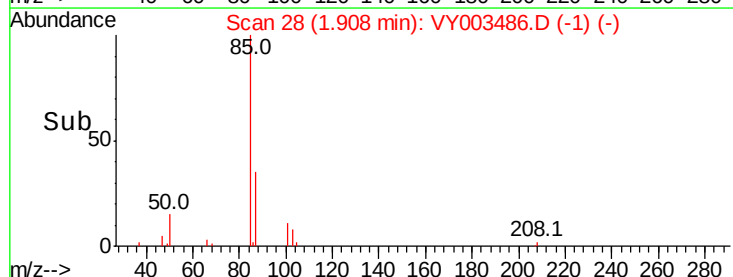
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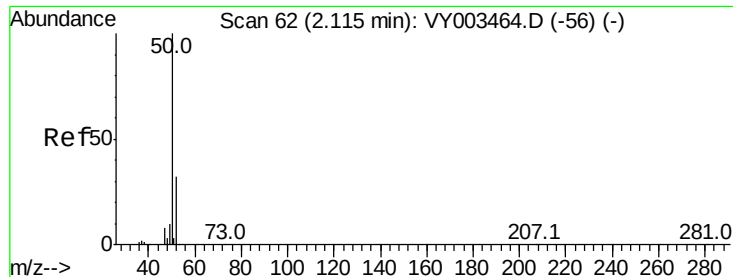
2000

1000

0

Time-->





#3

Chloromethane

Concen: 4.488 ug/l

RT: 2.12 min Scan# 63

Delta R.T. 0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

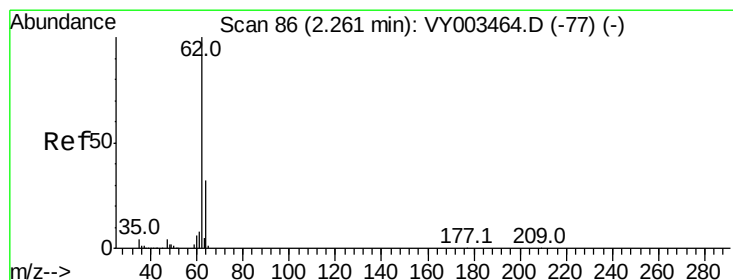
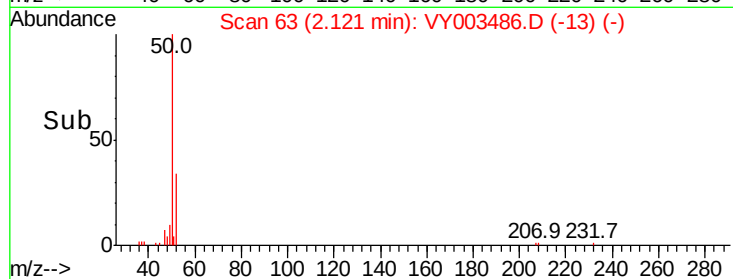
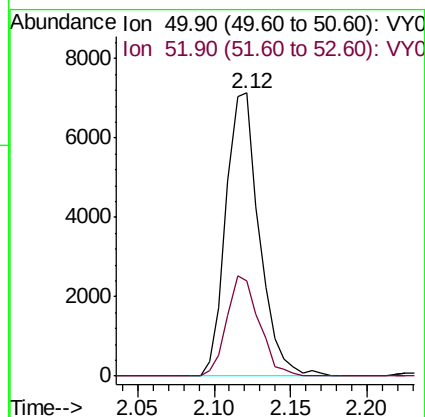
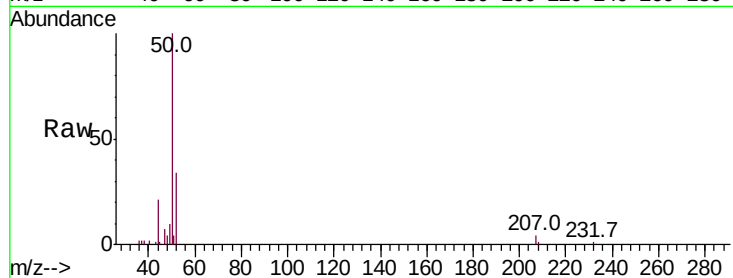
MDL-SOIL-03-QT4-2020

Tot Ion: 50 Resp: 10831

Ion Ratio Lower Upper

50 100

52 33.5 25.6 38.4



#4

Vinyl Chloride

Concen: 4.456 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY003486.D

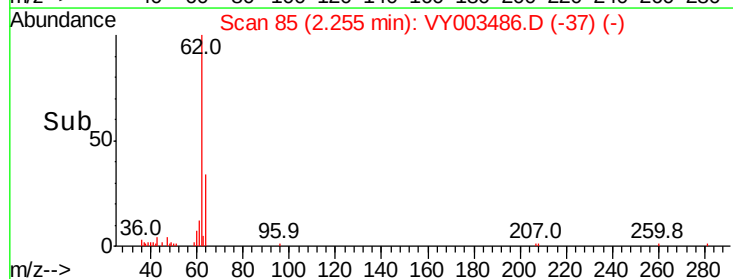
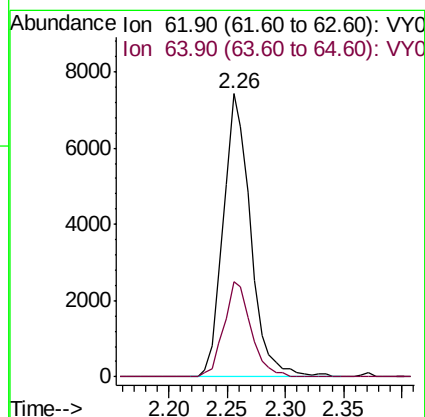
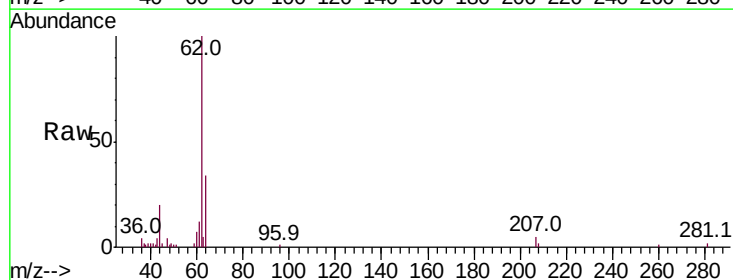
Acq: 03 Nov 2020 12:54

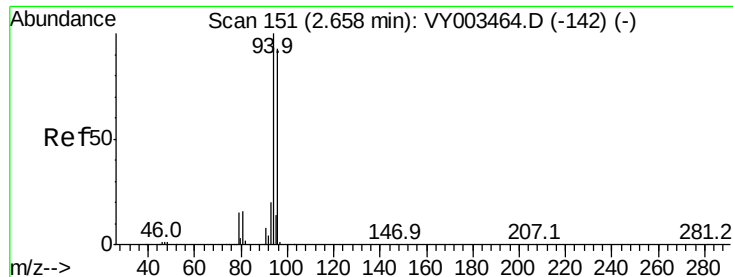
Tgt Ion: 62 Resp: 12070

Ion Ratio Lower Upper

62 100

64 33.6 25.5 38.3





#5

Bromomethane

Concen: 4.116 ug/l

RT: 2.66 min Scan# 151

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

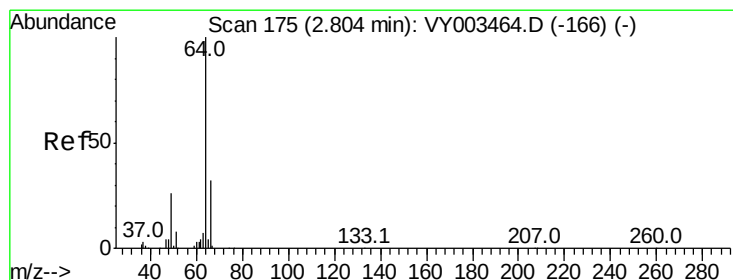
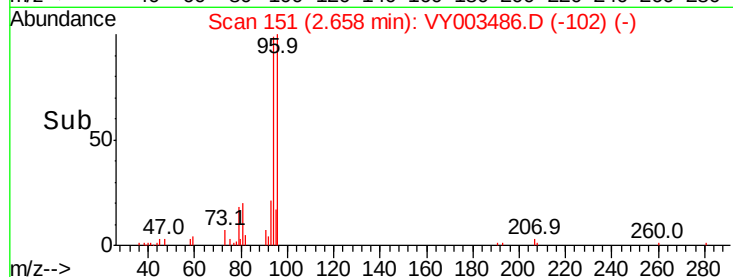
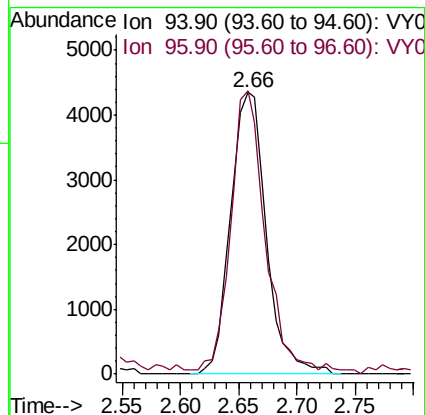
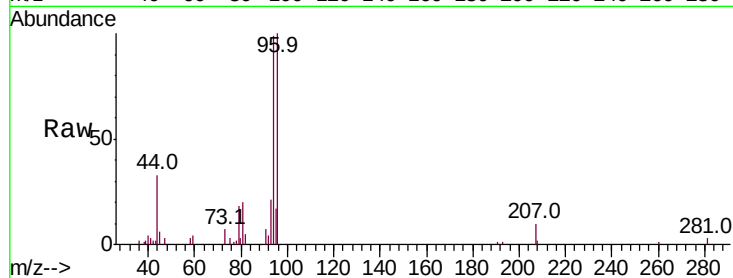
MDL-SOIL-03-QT4-2020

Tot Ion: 94 Resp: 9315

Ion Ratio Lower Upper

94 100

96 99.2 74.6 112.0



#6

Chloroethane

Concen: 4.375 ug/l

RT: 2.80 min Scan# 175

Delta R.T. 0.00 min

Lab File: VY003486.D

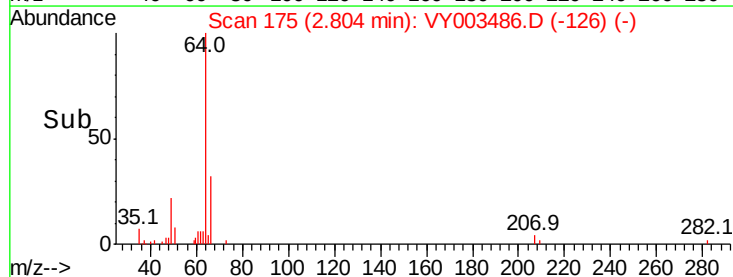
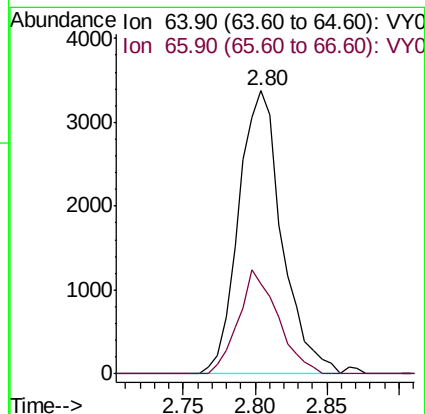
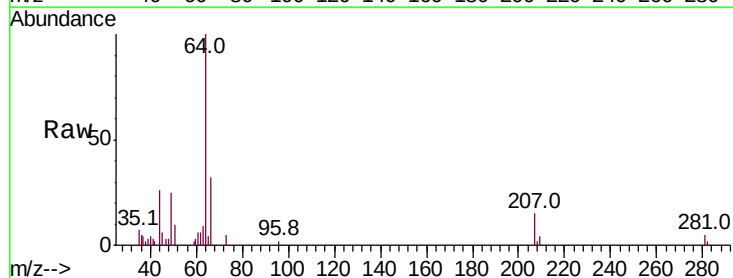
Acq: 03 Nov 2020 12:54

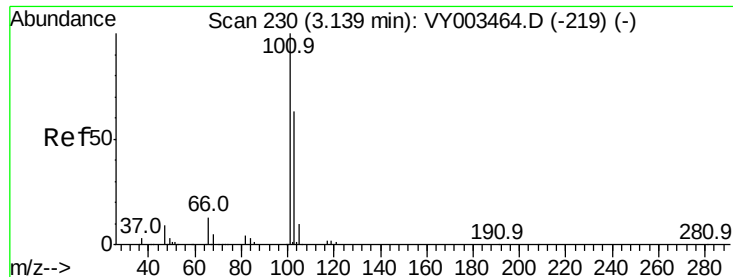
Tgt Ion: 64 Resp: 7064

Ion Ratio Lower Upper

64 100

66 31.9 25.6 38.4





#7

Trichlorofluoromethane

Concen: 4.427 ug/l

RT: 3.13 min Scan# 229

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

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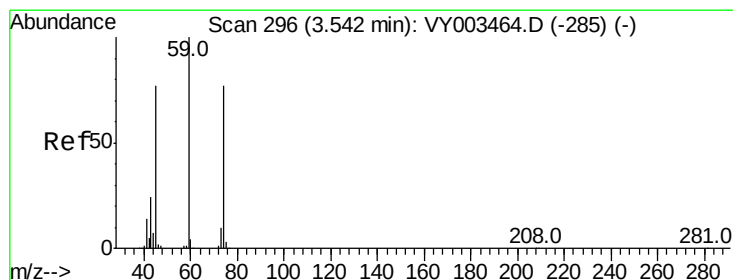
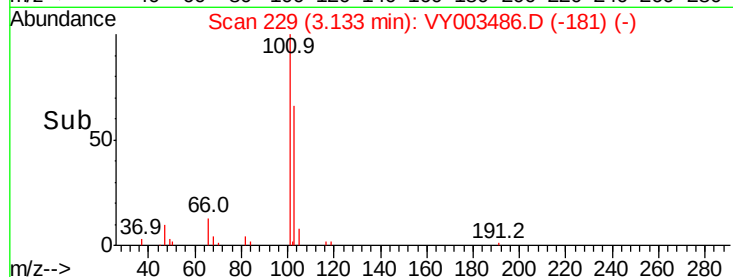
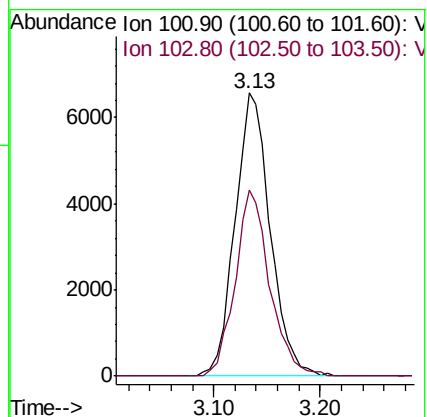
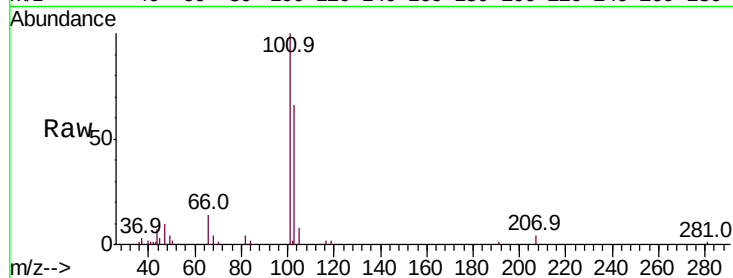
MDL-SOIL-03-QT4-2020

Tot Ion:101 Resp: 15221

Ion Ratio Lower Upper

101 100

103 65.8 50.7 76.1



#8

Diethyl Ether

Concen: 4.299 ug/l

RT: 3.55 min Scan# 297

Delta R.T. 0.01 min

Lab File: VY003486.D

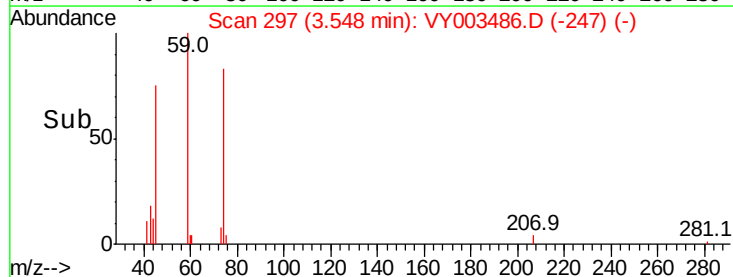
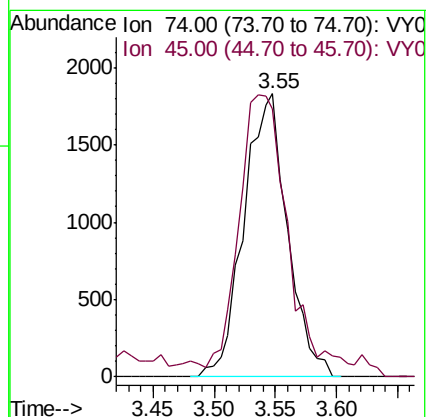
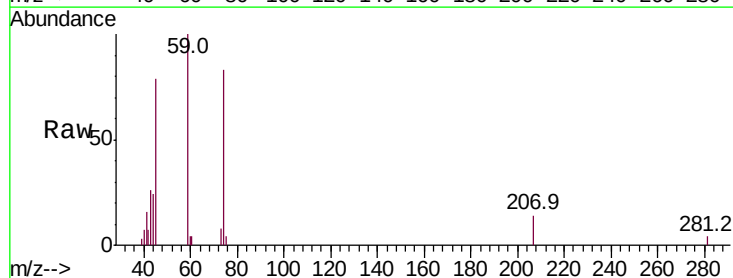
Acq: 03 Nov 2020 12:54

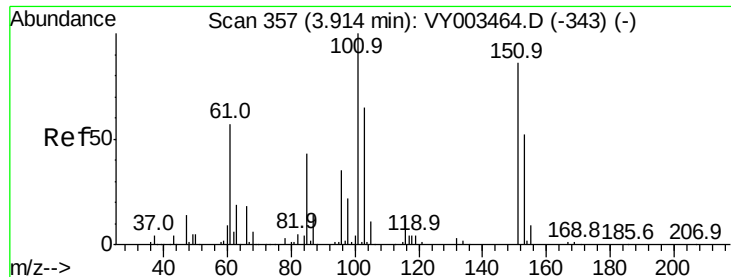
Tgt Ion: 74 Resp: 4533

Ion Ratio Lower Upper

74 100

45 103.8 50.7 152.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.380 ug/l

RT: 3.91 min Scan# 357

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

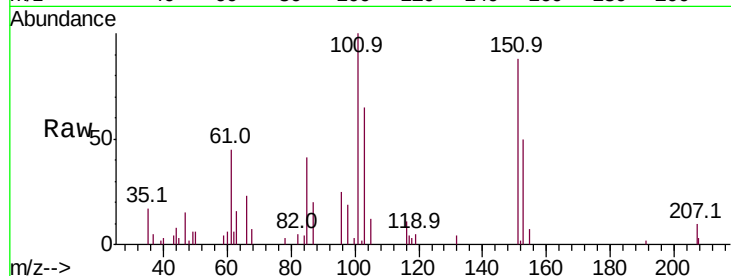
Tot Ion:101 Resp: 8324

Ion Ratio Lower Upper

101 100

85 45.6 35.8 53.8

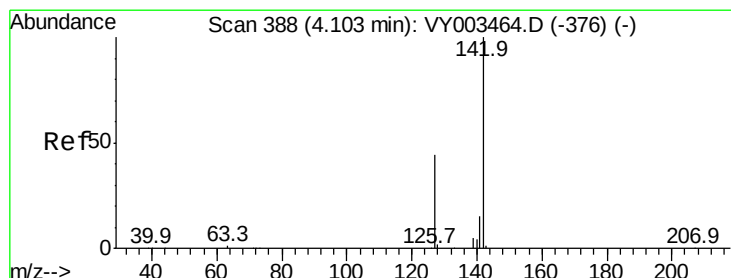
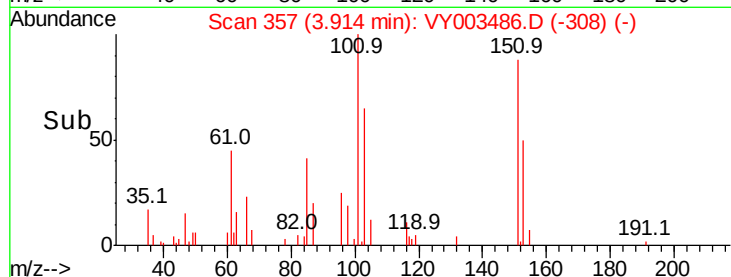
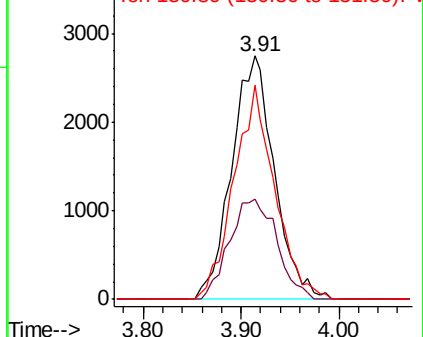
151 84.0 67.6 101.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.869 ug/l

RT: 4.10 min Scan# 388

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

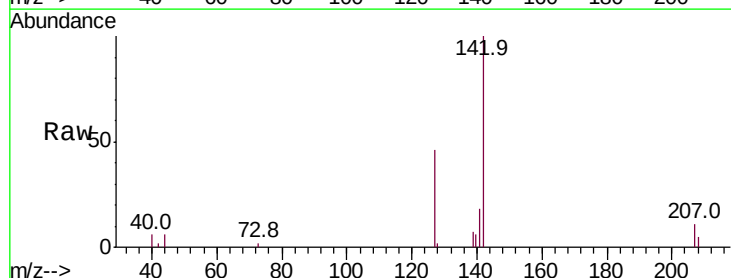
Tgt Ion:142 Resp: 7636

Ion Ratio Lower Upper

142 100

127 44.5 34.5 51.7

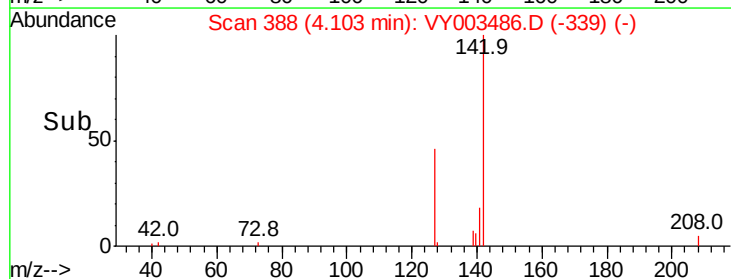
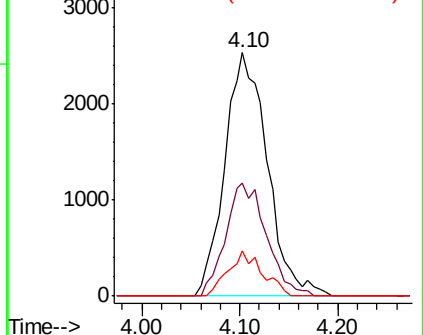
141 15.0 11.8 17.8

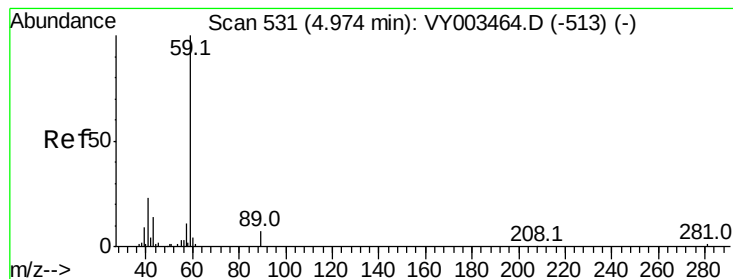


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



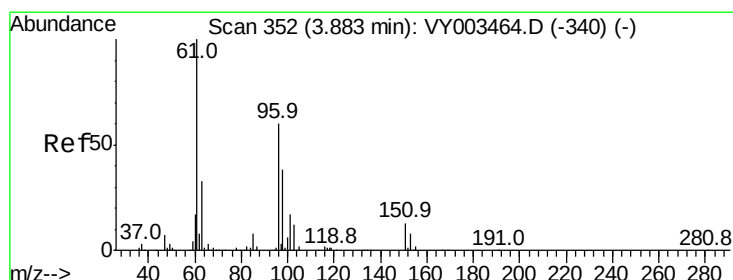
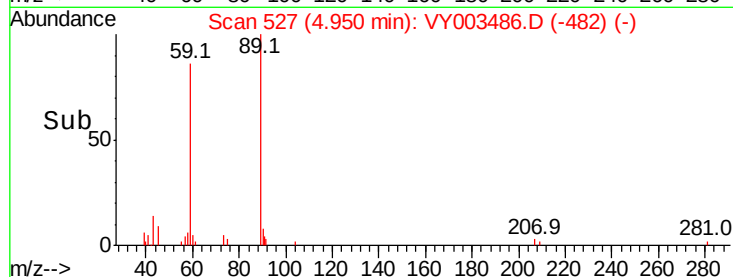
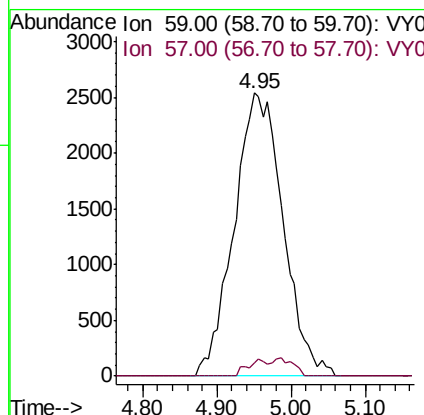
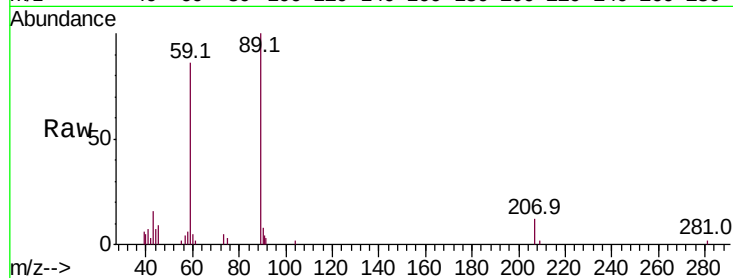


#11

Tert butyl alcohol
 Concen: 43.541 ug/l
 RT: 4.95 min Scan# 527
 Delta R.T. -0.02 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

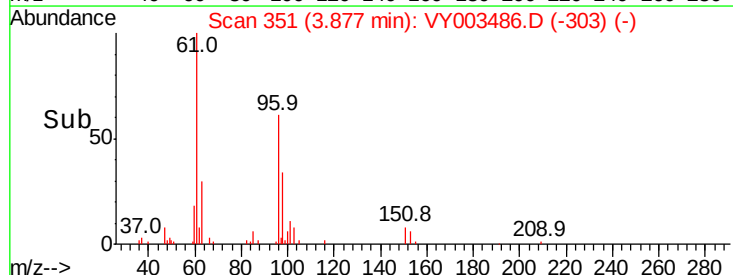
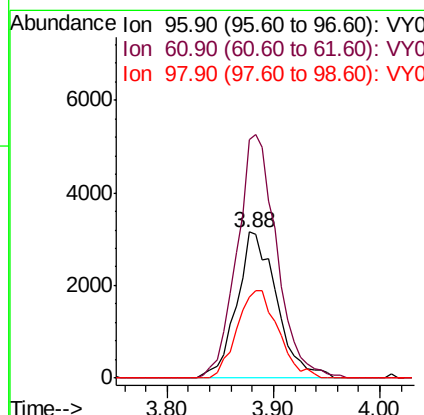
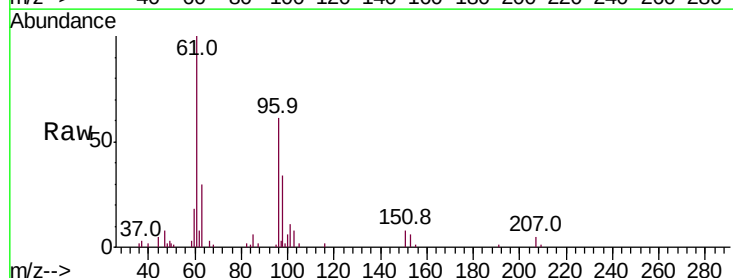
Tot Ion: 59 Resp: 11676
 Ion Ratio Lower Upper
 59 100
 57 2.4 7.9 11.9#

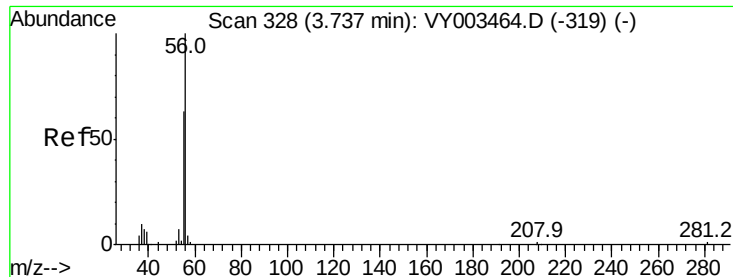


#12

1,1-Dichloroethene
 Concen: 4.397 ug/l
 RT: 3.88 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion: 96 Resp: 8314
 Ion Ratio Lower Upper
 96 100
 61 163.6 133.6 200.4
 98 55.4 50.2 75.2





#13

Acrolein

Concen: 21.394 ug/l

RT: 3.74 min Scan# 328

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

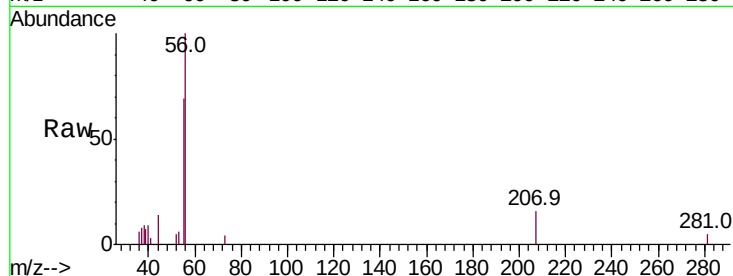
MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 4217

Ion Ratio Lower Upper

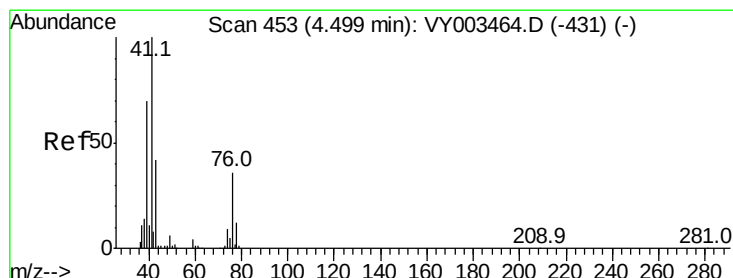
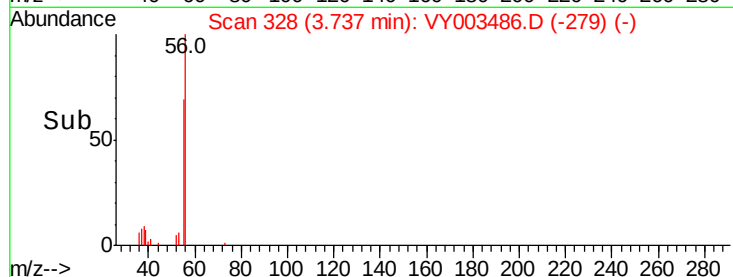
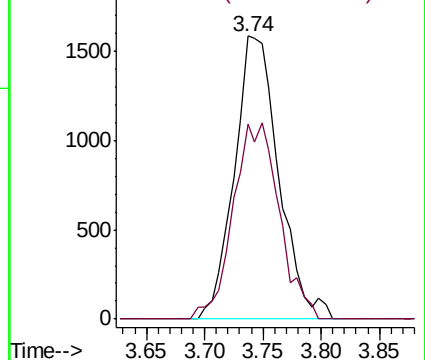
56 100

55 71.7 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#14

Allyl chloride

Concen: 4.157 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

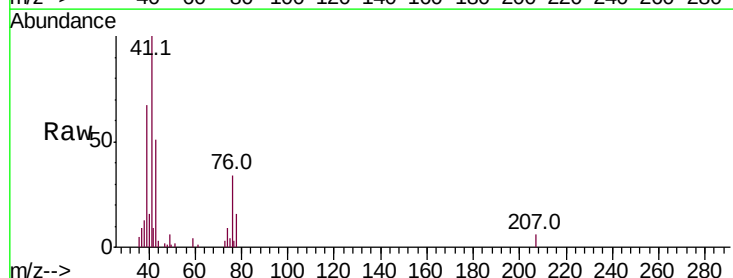
Tgt Ion: 41 Resp: 14339

Ion Ratio Lower Upper

41 100

39 68.4 54.4 81.6

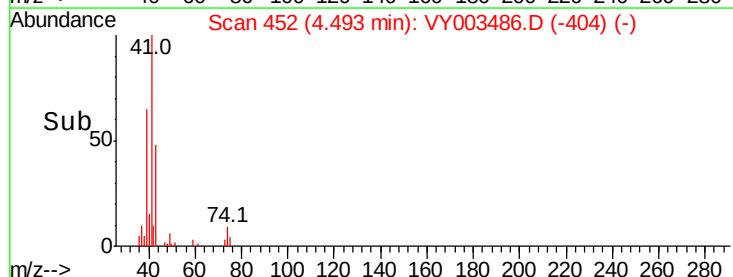
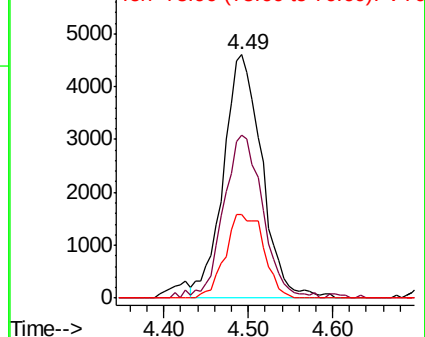
76 34.1 27.6 41.4

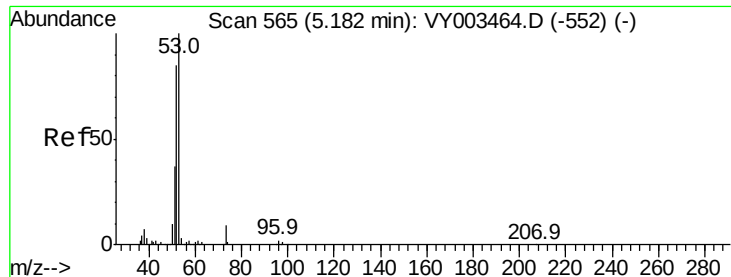


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 20.365 ug/l

RT: 5.18 min Scan# 565

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

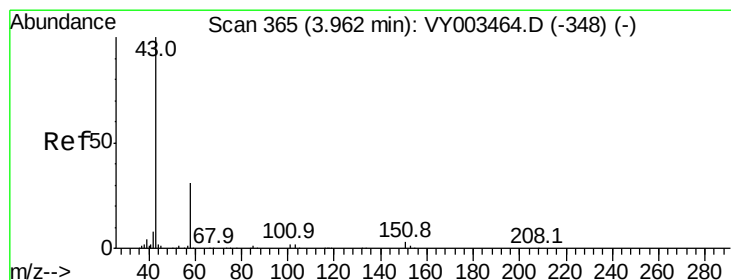
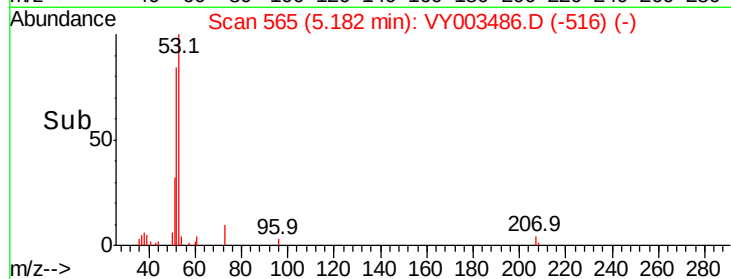
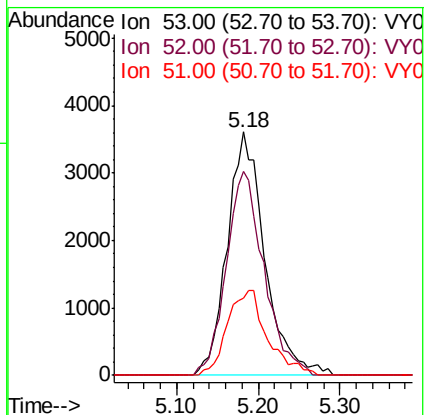
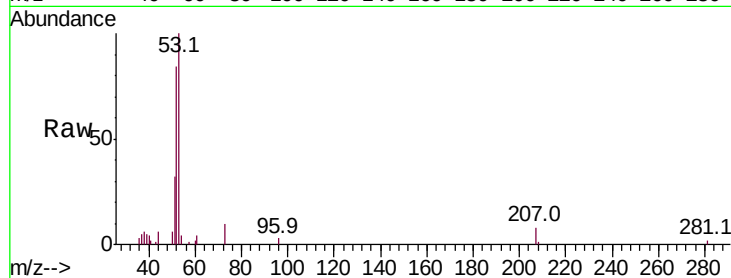
Tot Ion: 53 Resp: 11462

Ion Ratio Lower Upper

53 100

52 84.3 66.9 100.3

51 37.3 29.3 43.9



#16

Acetone

Concen: 19.096 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VY003486.D

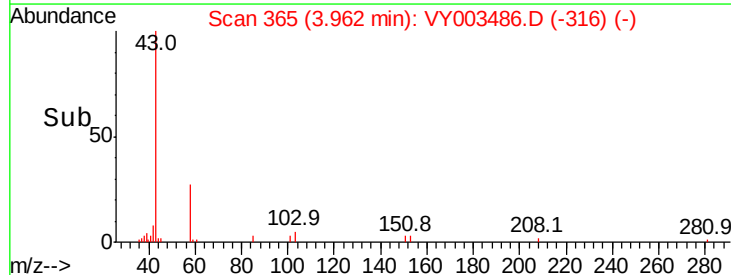
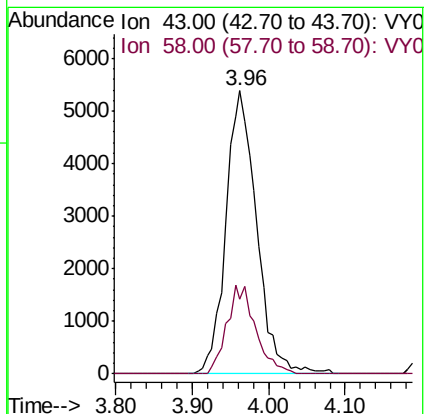
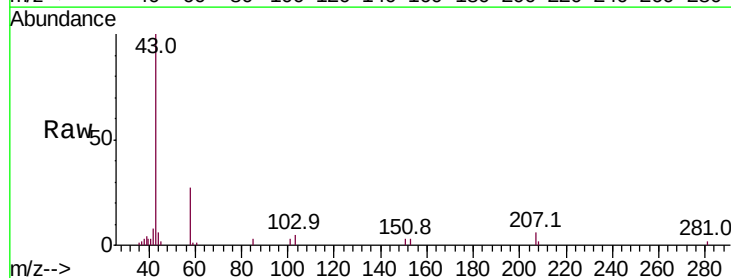
Acq: 03 Nov 2020 12:54

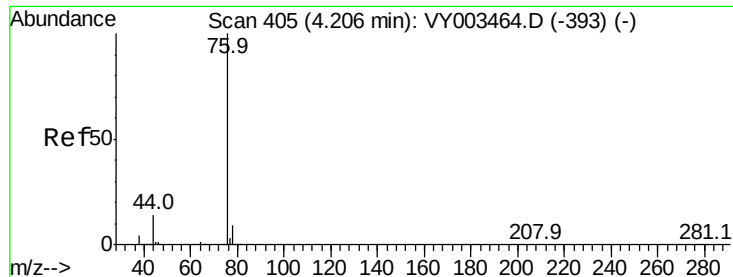
Tgt Ion: 43 Resp: 14962

Ion Ratio Lower Upper

43 100

58 26.6 25.0 37.4





#17

Carbon Disulfide

Concen: 4.393 ug/l

RT: 4.21 min Scan# 405

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

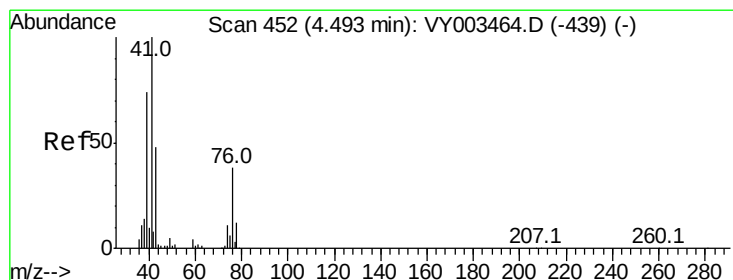
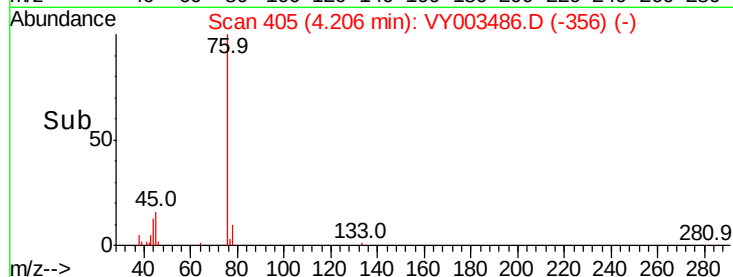
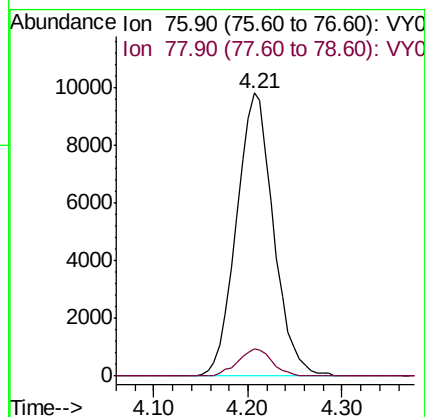
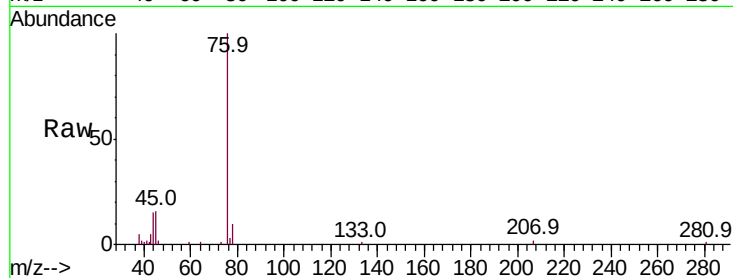
MDL-SOIL-03-QT4-2020

Tot Ion: 76 Resp: 26911

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.2



#18

Methyl Acetate

Concen: 4.540 ug/l

RT: 4.49 min Scan# 452

Delta R.T. 0.00 min

Lab File: VY003486.D

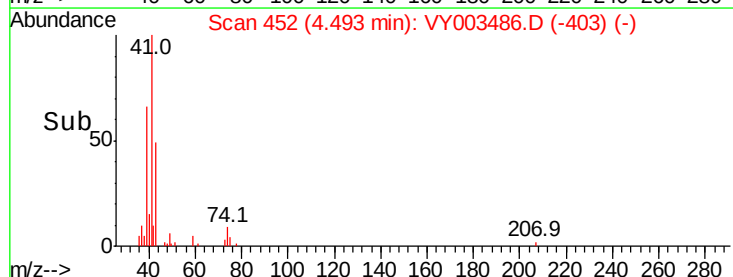
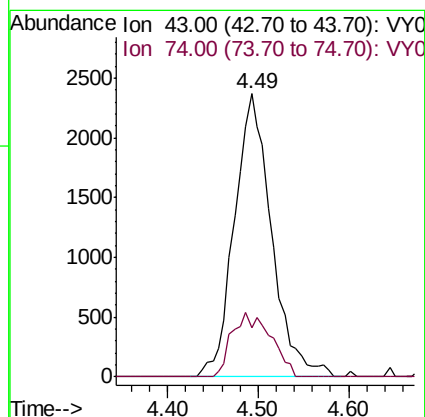
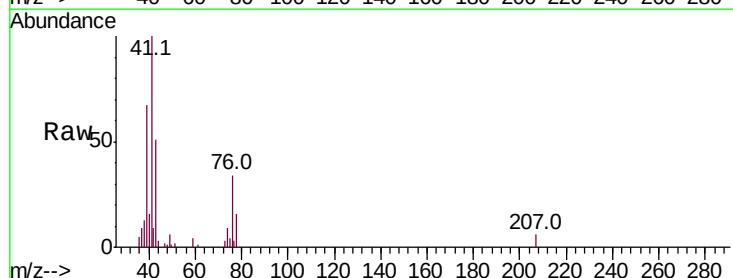
Acq: 03 Nov 2020 12:54

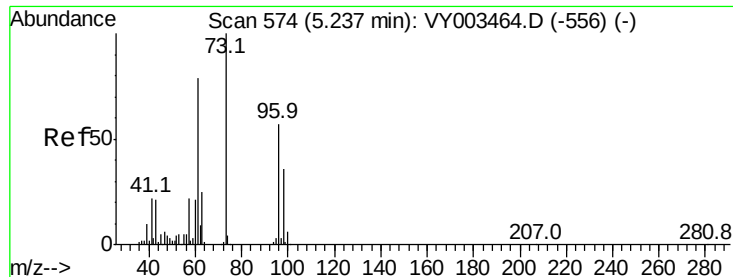
Tgt Ion: 43 Resp: 6723

Ion Ratio Lower Upper

43 100

74 23.7 18.4 27.6



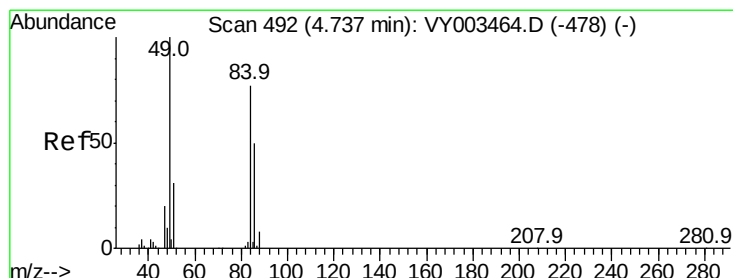
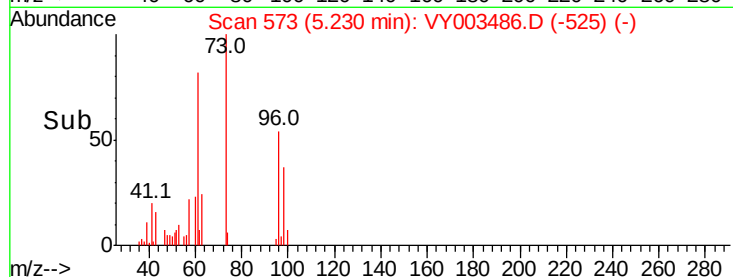
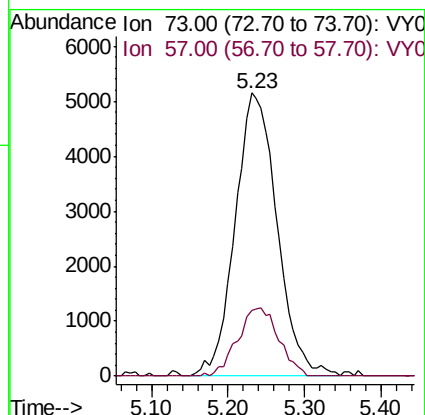
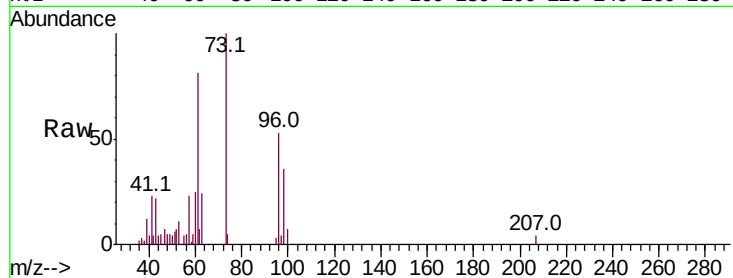


#19

Methyl tert-butyl Ether
 Concen: 4.189 ug/l
 RT: 5.23 min Scan# 573
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

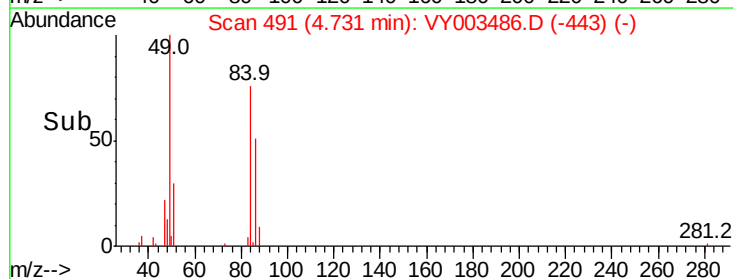
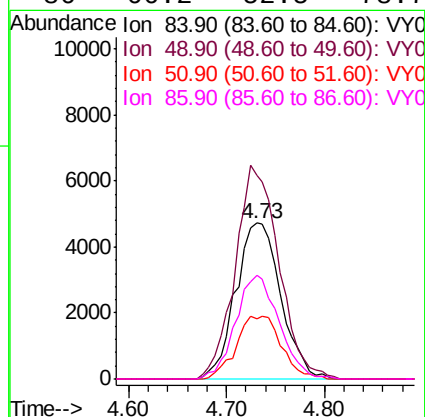
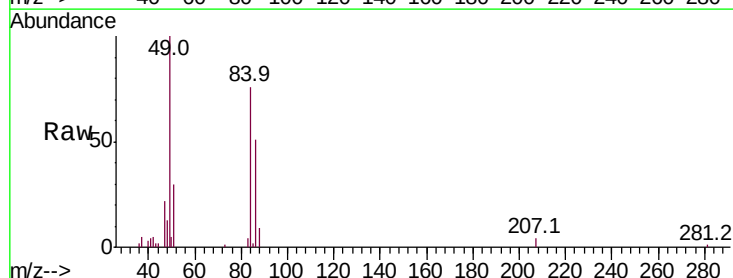
Tot Ion: 73 Resp: 19616
 Ion Ratio Lower Upper
 73 100
 57 23.1 17.2 25.8

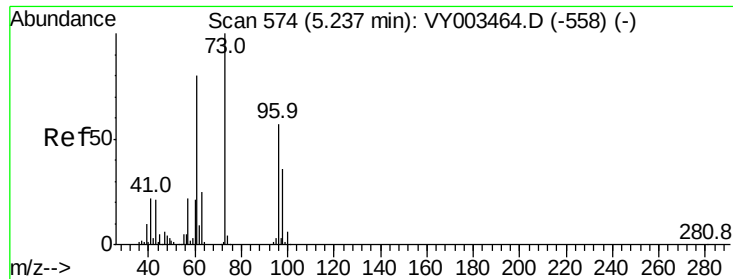


#20

Methylene Chloride
 Concen: 6.851 ug/l
 RT: 4.73 min Scan# 491
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion: 84 Resp: 15118
 Ion Ratio Lower Upper
 84 100
 49 130.8 104.3 156.5
 51 38.9 32.5 48.7
 86 66.2 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 4.283 ug/l

RT: 5.24 min Scan# 574

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

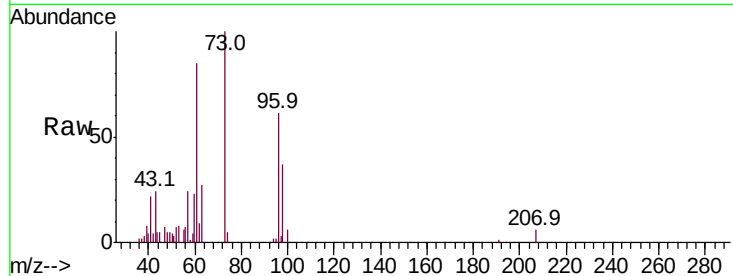
Tot Ion: 96 Resp: 9377

Ion Ratio Lower Upper

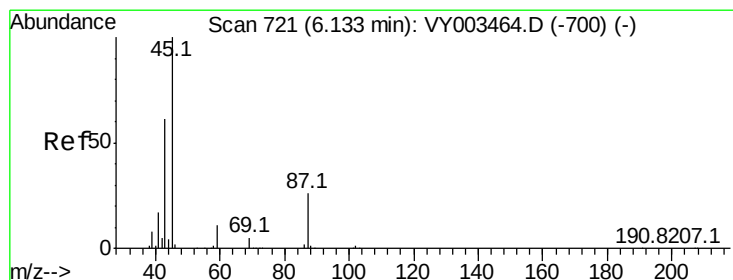
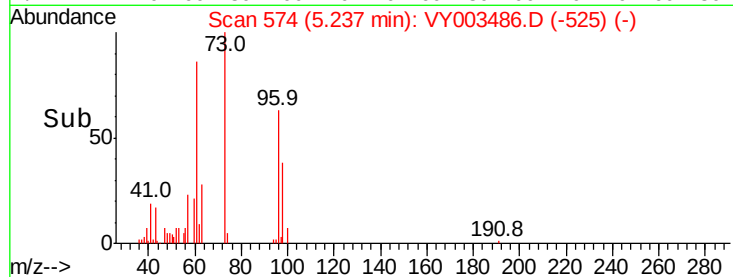
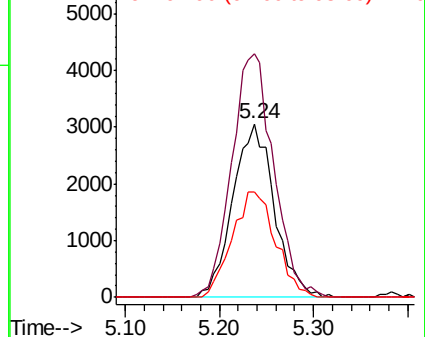
96 100

61 140.1 111.3 166.9

98 60.3 50.3 75.5



Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0



#22

Diisopropyl ether

Concen: 4.170 ug/l

RT: 6.13 min Scan# 721

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion: 45 Resp: 25228

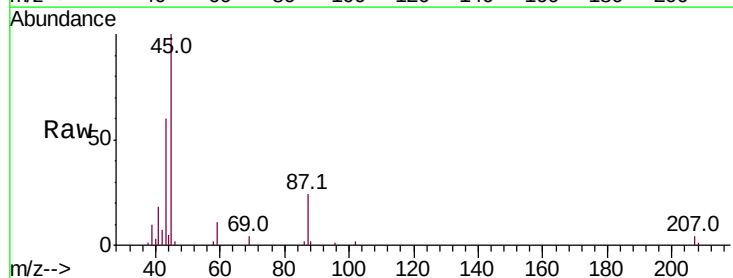
Ion Ratio Lower Upper

45 100

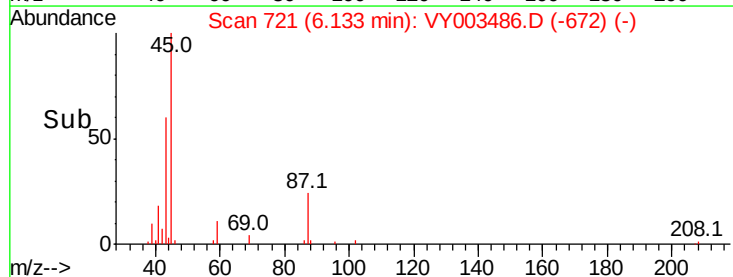
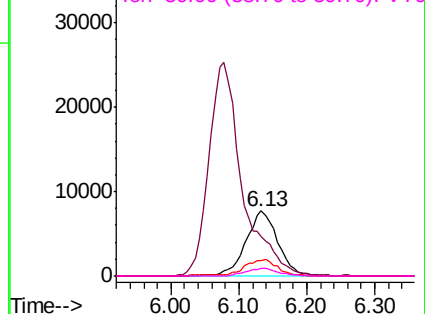
43 59.3 48.8 73.2

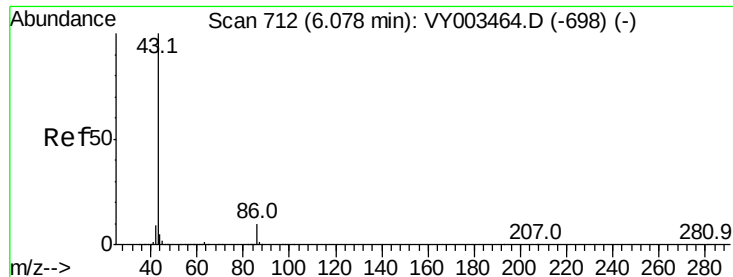
87 23.6 20.6 31.0

59 11.2 9.0 13.4



Abundance Ion 45.00 (44.70 to 45.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 87.00 (86.70 to 87.70): VY0
Ion 59.00 (58.70 to 59.70): VY0





#23

Vinyl Acetate

Concen: 18.972 ug/l

RT: 6.08 min Scan# 712

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

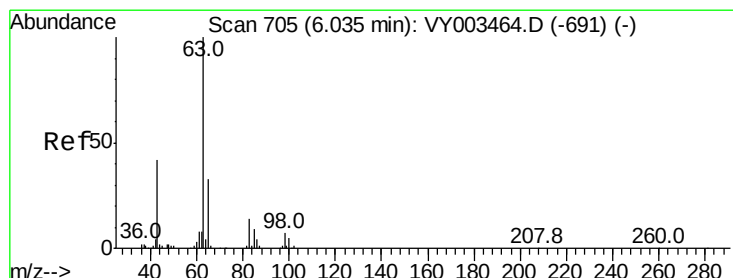
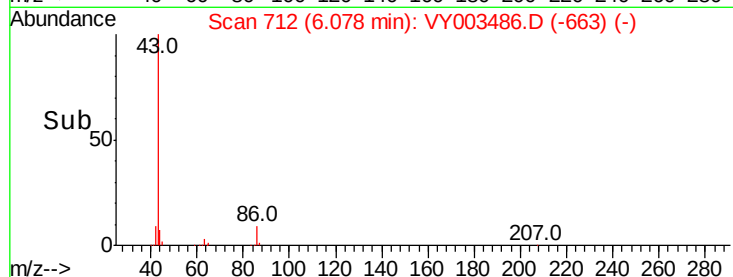
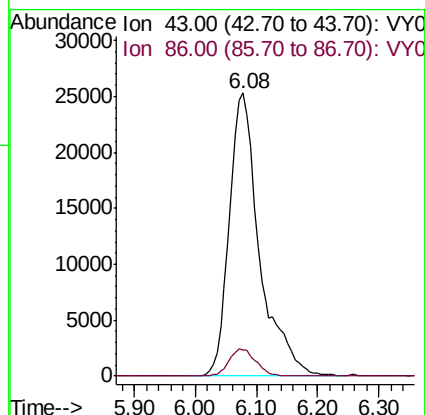
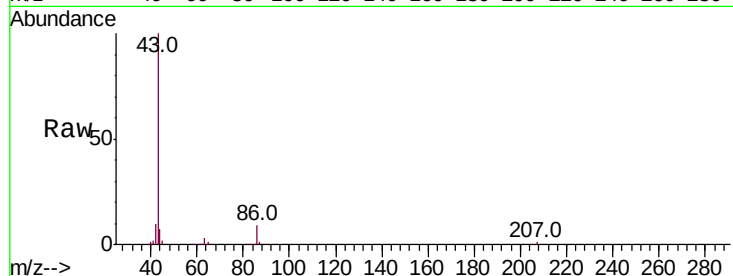
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 86262

Ion Ratio Lower Upper

43 100

86 9.1 8.2 12.2



#24

1,1-Dichloroethane

Concen: 4.265 ug/l

RT: 6.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

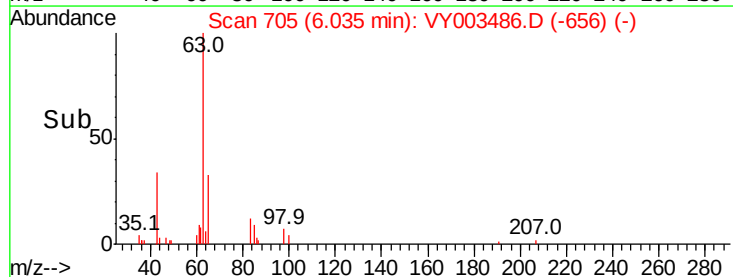
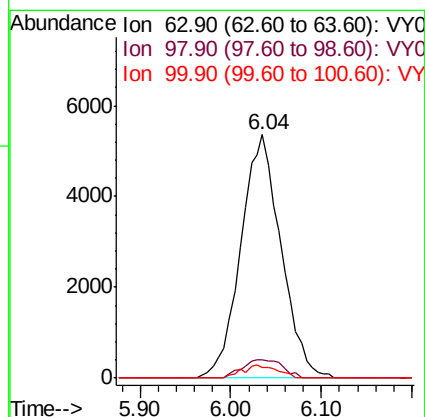
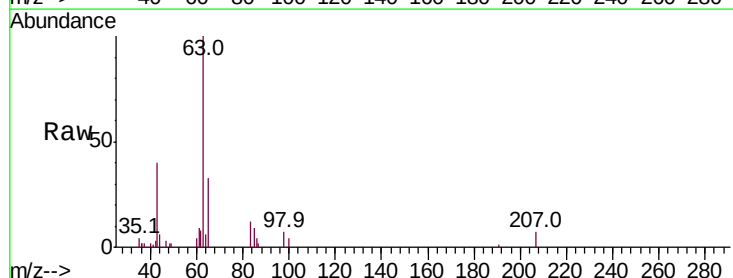
Tgt Ion: 63 Resp: 16397

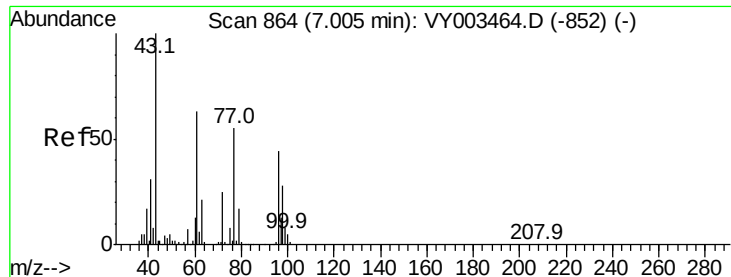
Ion Ratio Lower Upper

63 100

98 7.4 3.6 10.8

100 4.5 2.3 6.9





#25

2-Butanone

Concen: 19.734 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

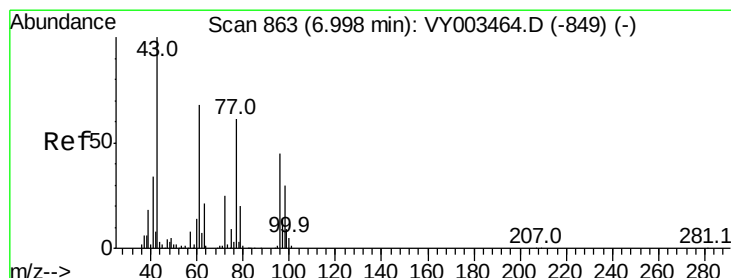
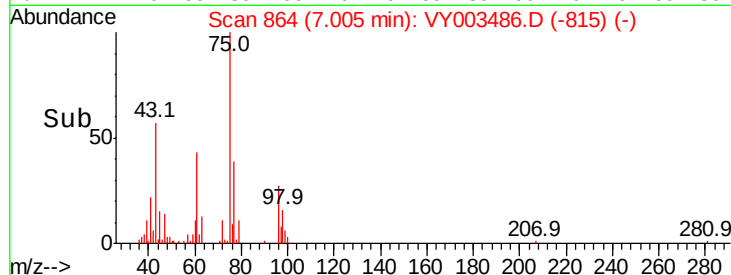
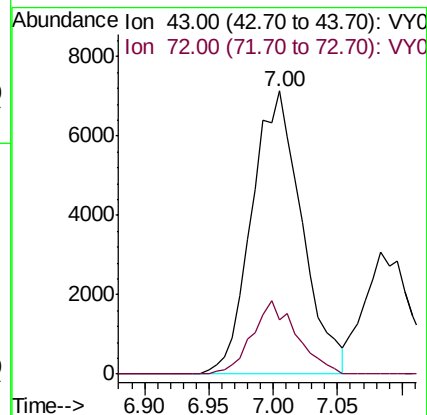
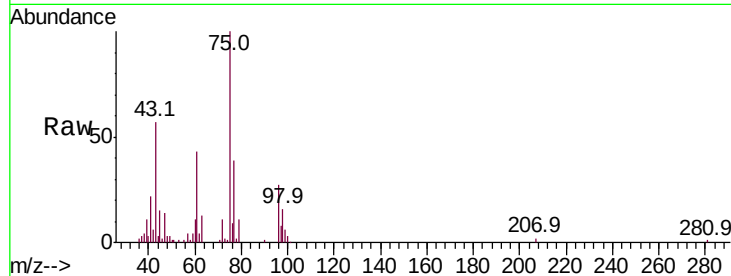
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 19339

Ion Ratio Lower Upper

43 100

72 19.2 20.1 30.1#



#26

2,2-Dichloropropane

Concen: 4.560 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.01 min

Lab File: VY003486.D

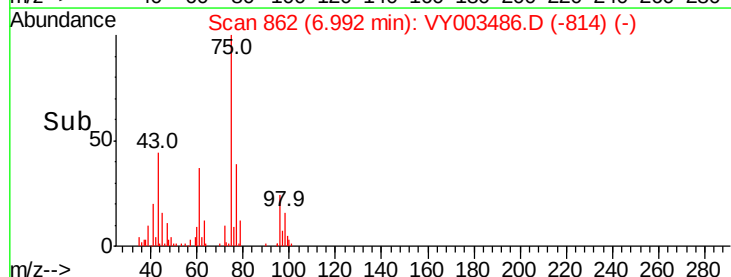
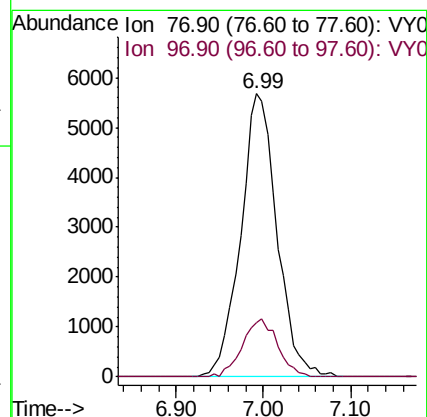
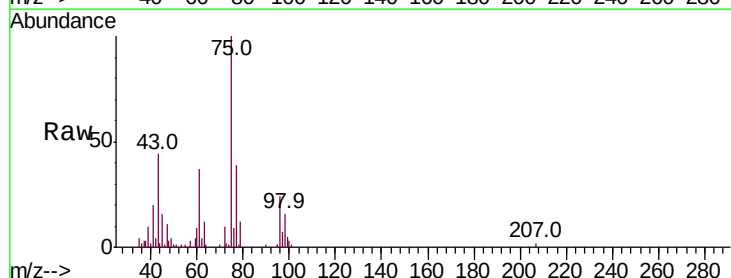
Acq: 03 Nov 2020 12:54

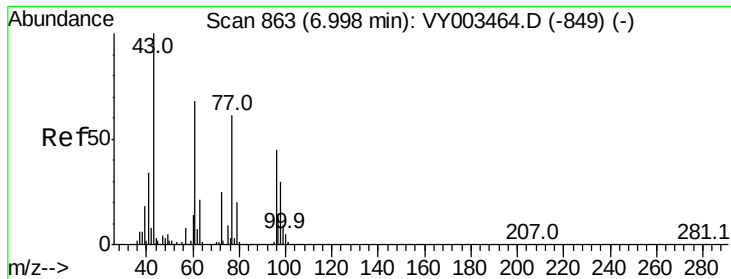
Tgt Ion: 77 Resp: 16335

Ion Ratio Lower Upper

77 100

97 20.0 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 4.329 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

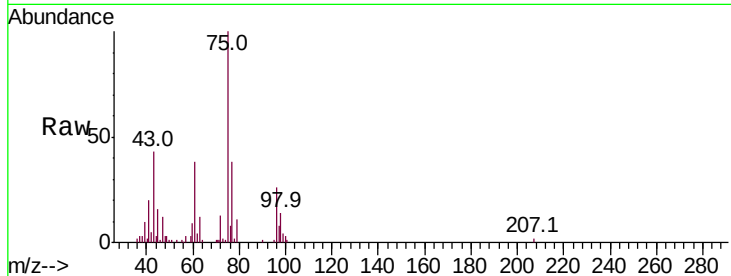
Tot Ion: 96 Resp: 10271

Ion Ratio Lower Upper

96 100

61 154.4 0.0 299.2

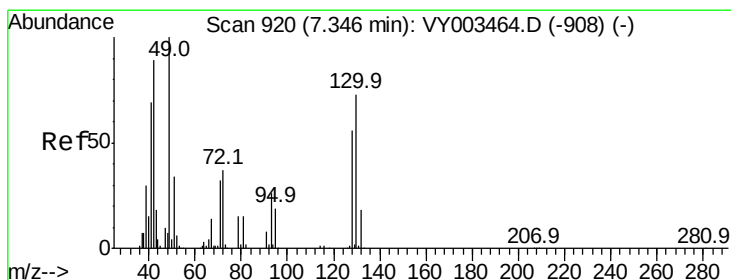
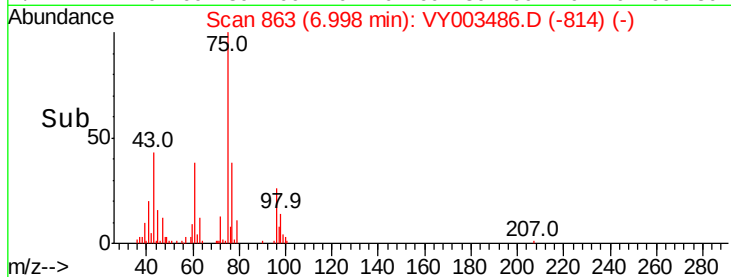
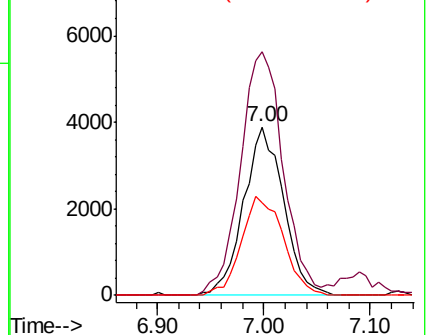
98 61.6 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0



#28

Bromochloromethane

Concen: 4.331 ug/l

RT: 7.35 min Scan# 920

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

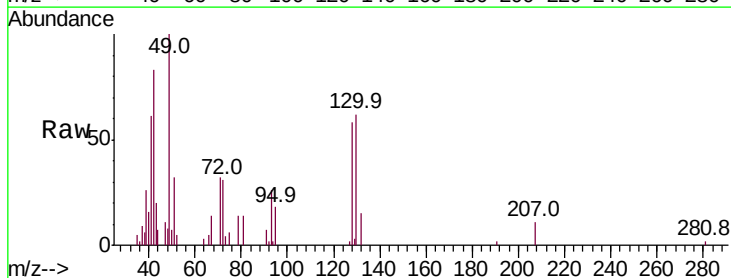
Tgt Ion: 49 Resp: 8378

Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.2

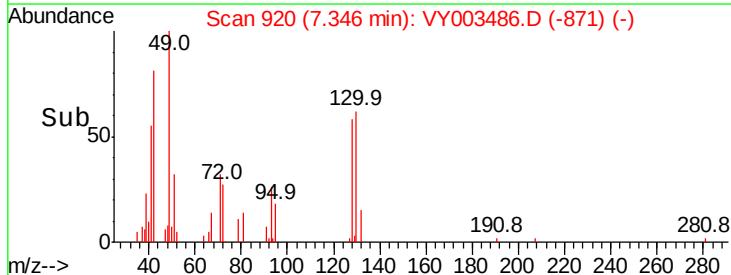
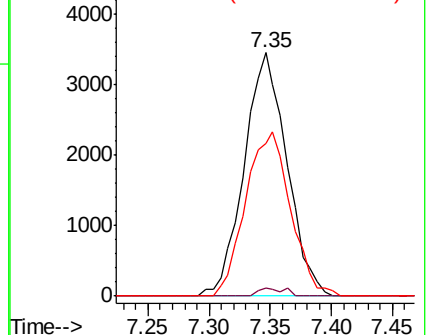
130 70.9 60.0 90.0

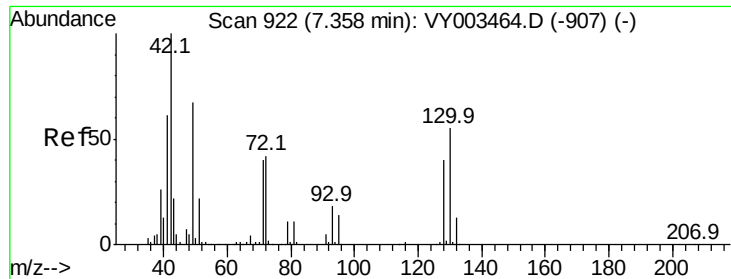


Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

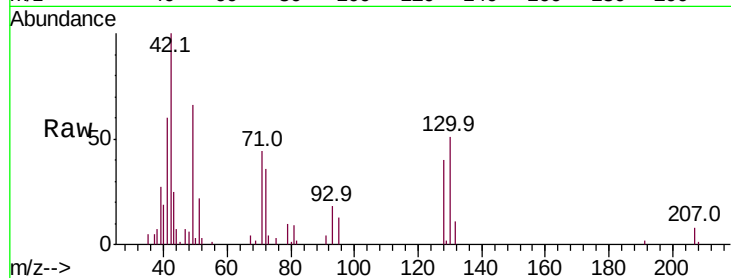




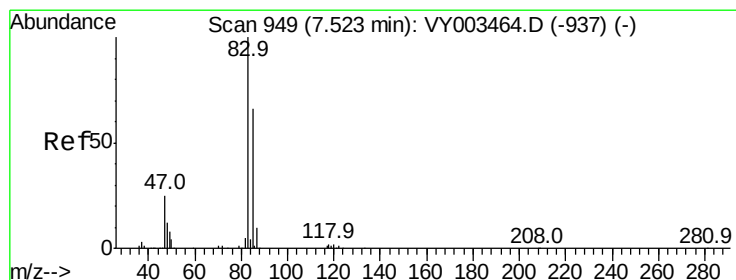
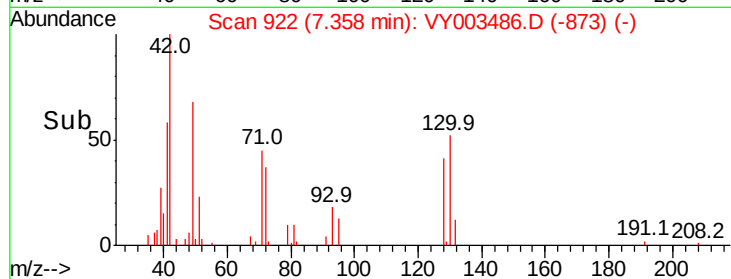
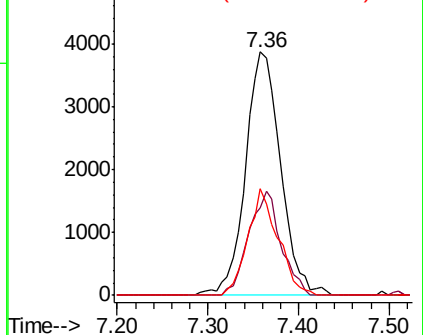
#29
Tetrahydrofuran
Concen: 20.312 ug/l
RT: 7.36 min Scan# 922
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion: 42 Resp: 10401
Ion Ratio Lower Upper
42 100
72 39.1 32.8 49.2
71 37.5 30.7 46.1

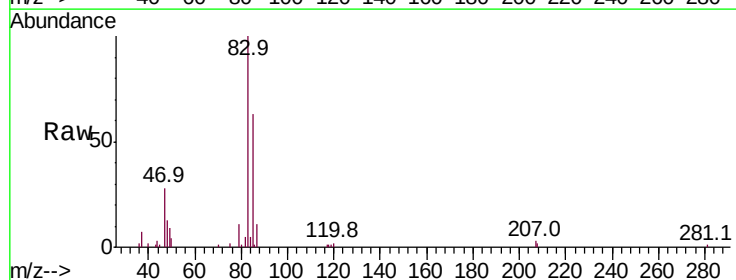


Abundance Ion 42.00 (41.70 to 42.70): VY0
Ion 72.00 (71.70 to 72.70): VY0
Ion 71.00 (70.70 to 71.70): VY0

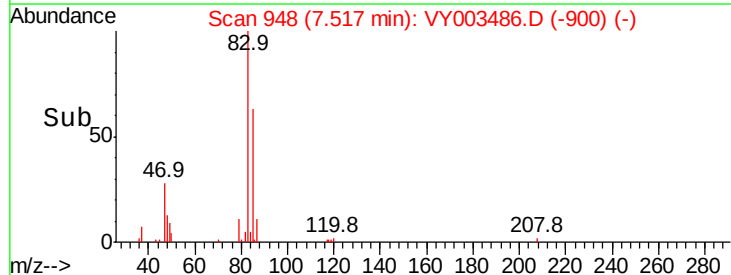
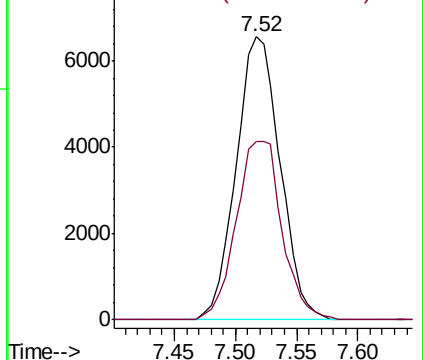


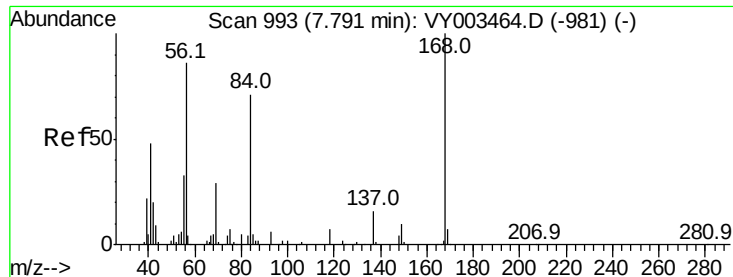
#30
Chloroform
Concen: 4.329 ug/l
RT: 7.52 min Scan# 948
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 83 Resp: 16348
Ion Ratio Lower Upper
83 100
85 62.9 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VY0
Ion 84.90 (84.60 to 85.60): VY0





#31

Cyclohexane

Concen: 5.243 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

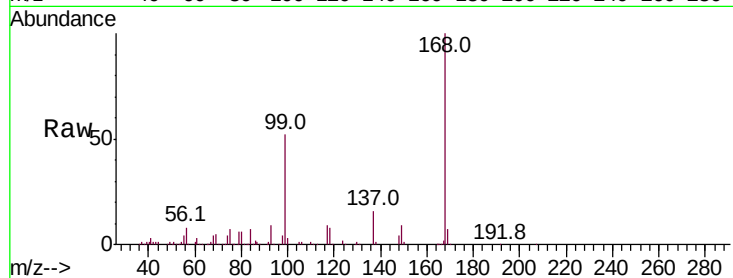
Tot Ion: 56 Resp: 18666

Ion Ratio Lower Upper

56 100

69 59.8 26.6 39.8#

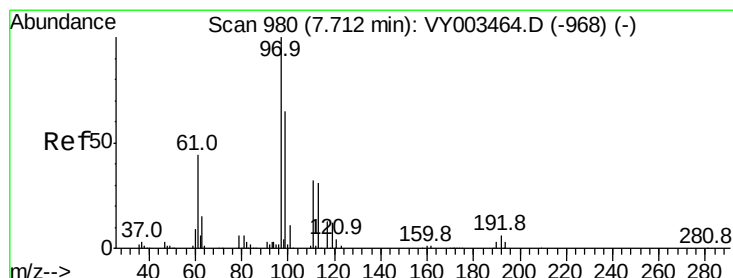
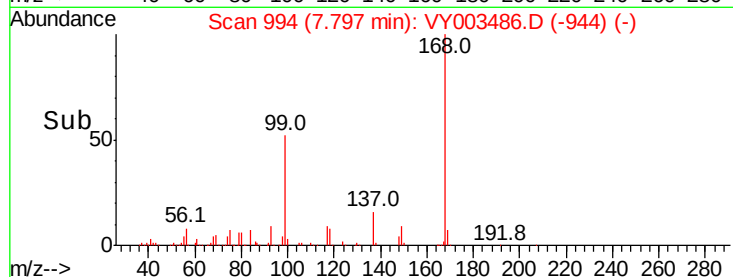
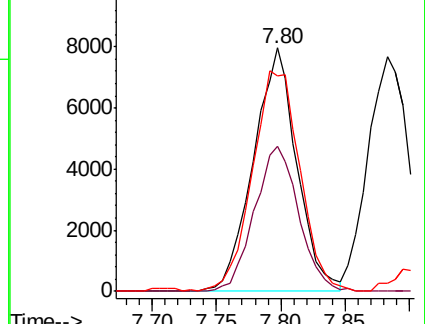
84 88.1 65.9 98.9



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 4.394 ug/l

RT: 7.71 min Scan# 980

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

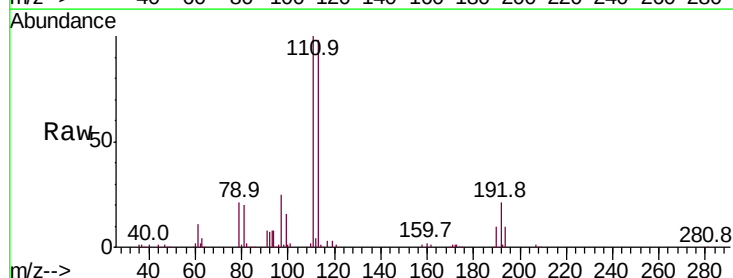
Tgt Ion: 97 Resp: 15481

Ion Ratio Lower Upper

97 100

99 63.1 51.6 77.4

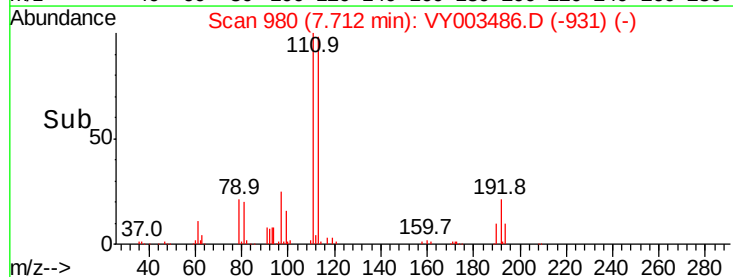
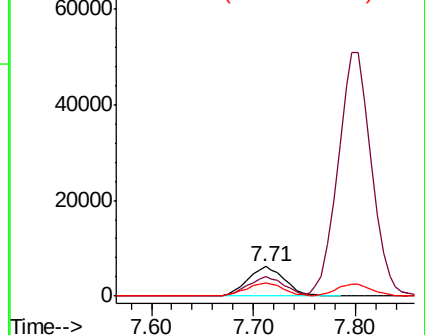
61 44.5 35.1 52.7

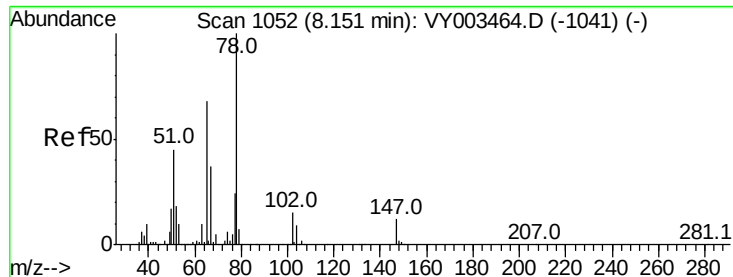


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

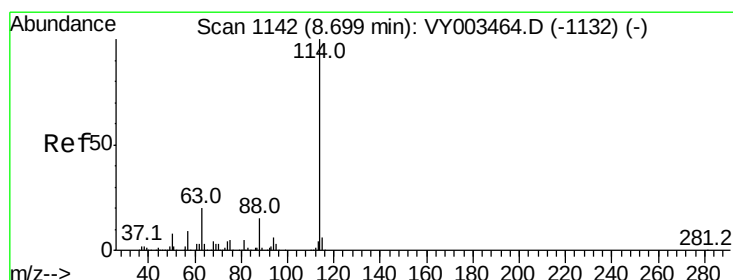
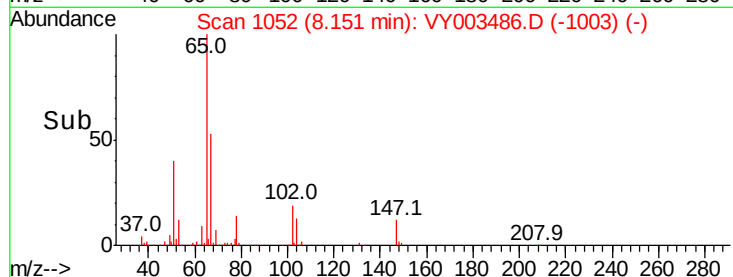
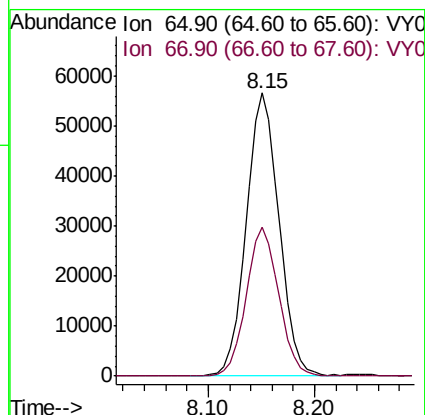
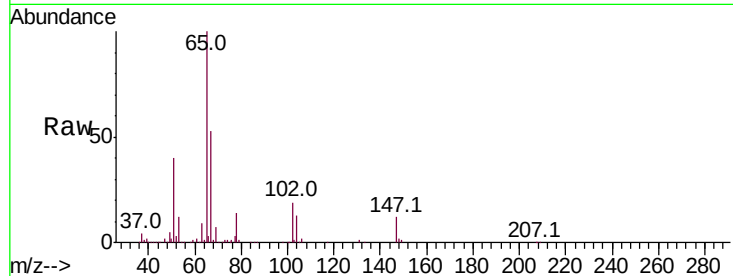




#33
 1,2-Dichloroethane-d4
 Concen: 51.438 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

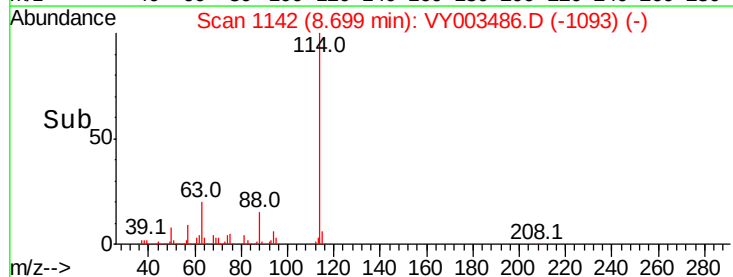
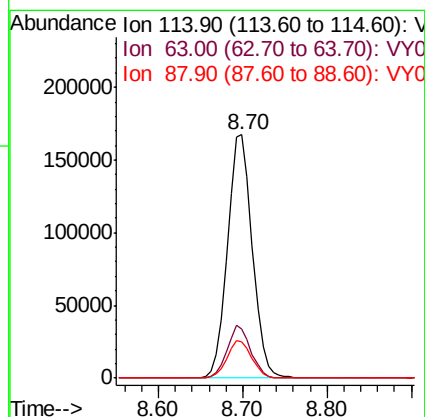
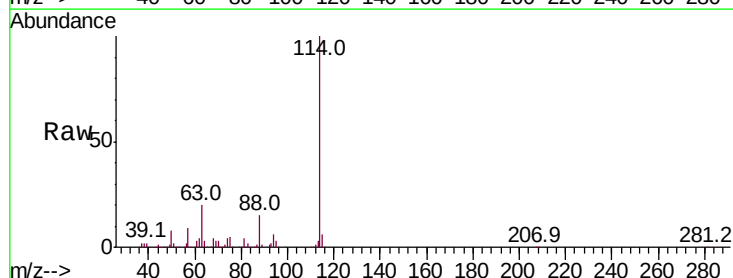
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

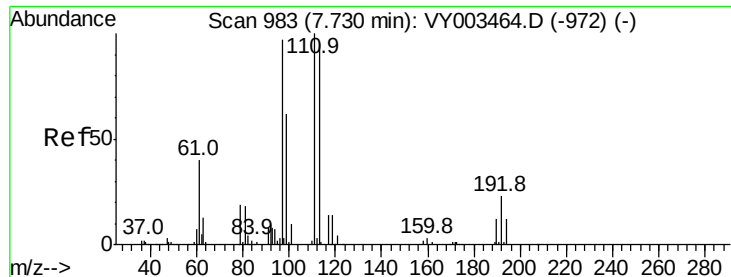
Tot Ion: 65 Resp: 122175
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion: 114 Resp: 336461
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.6
 88 15.0 0.0 29.4

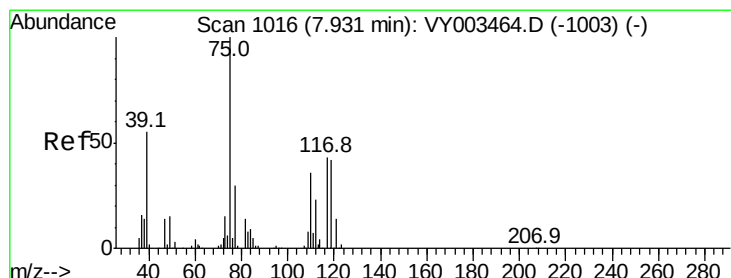
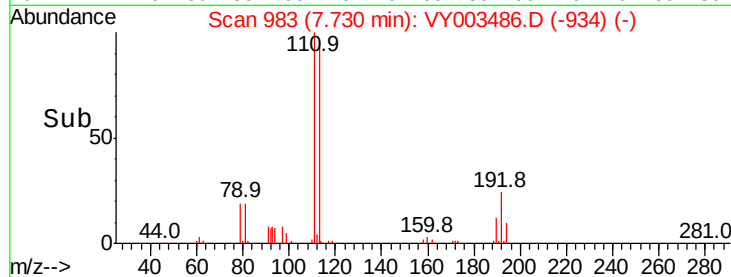
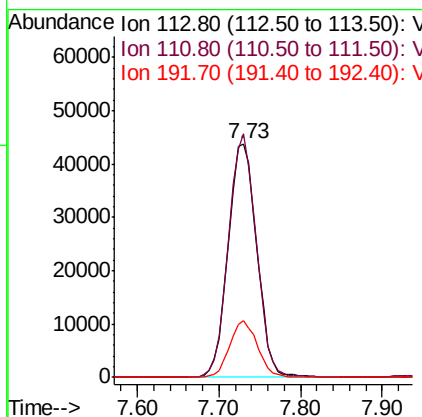
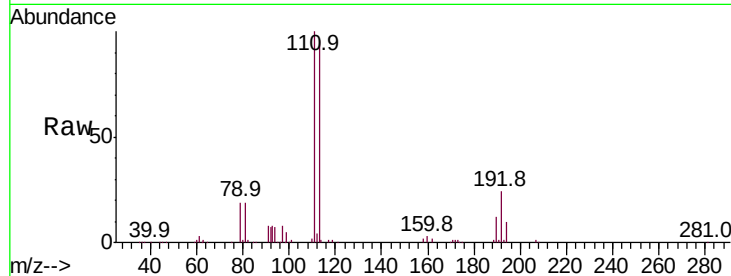




#35
 Dibromofluoromethane
 Concen: 51.823 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

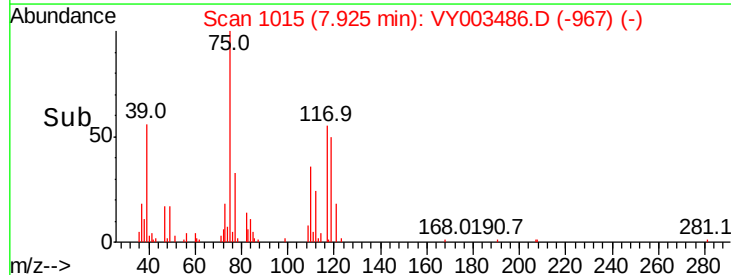
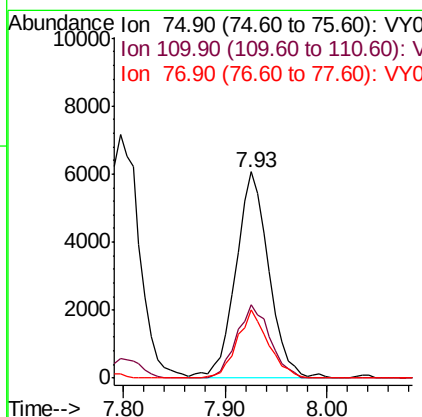
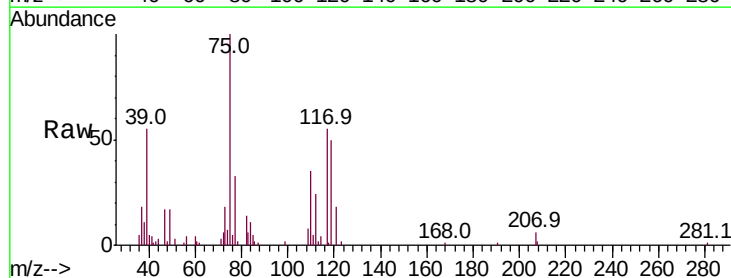
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

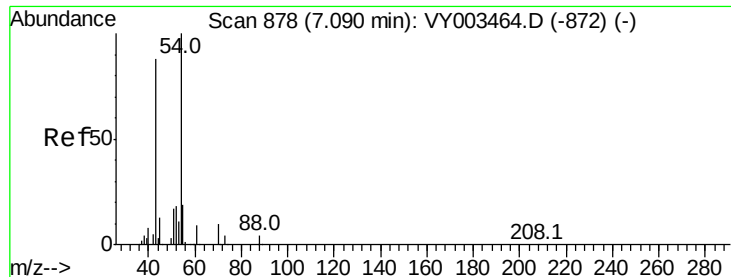
Tot Ion:113 Resp: 106105
 Ion Ratio Lower Upper
 113 100
 111 100.8 81.8 122.6
 192 23.4 18.8 28.2



#36
 1,1-Dichloropropene
 Concen: 4.288 ug/l
 RT: 7.93 min Scan# 1015
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion: 75 Resp: 13603
 Ion Ratio Lower Upper
 75 100
 110 36.0 17.6 52.9
 77 31.0 24.7 37.1

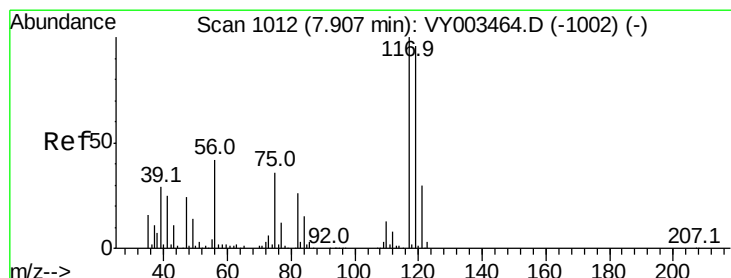
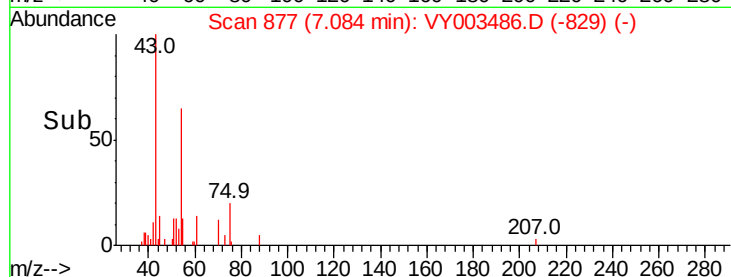
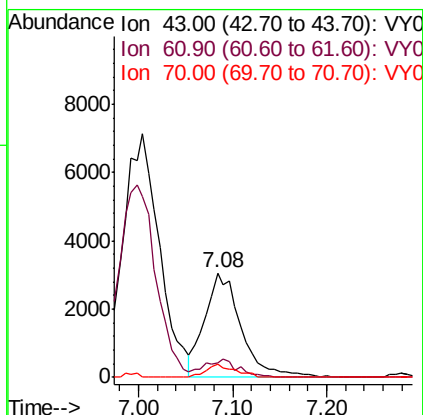
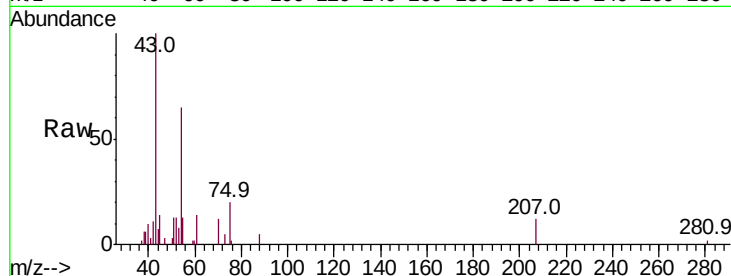




#37
Ethyl Acetate
Concen: 4.165 ug/l
RT: 7.08 min Scan# 877
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

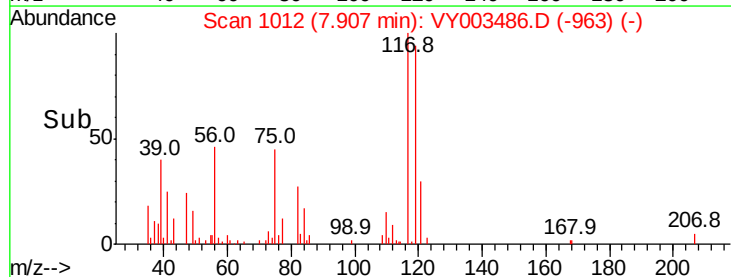
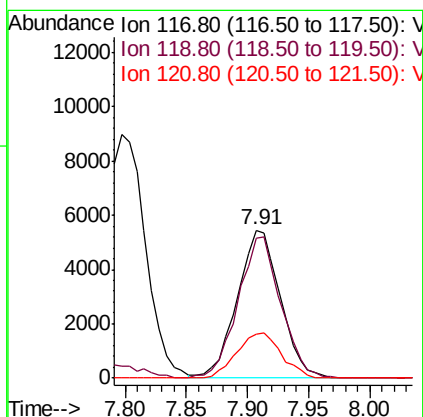
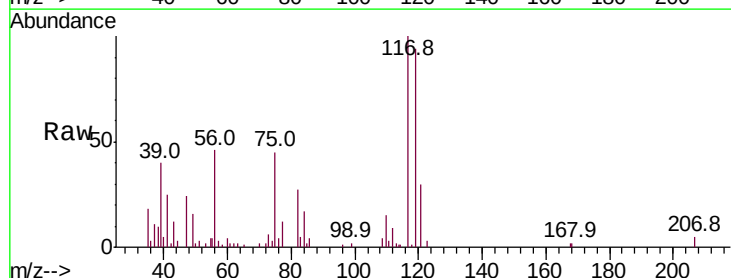
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

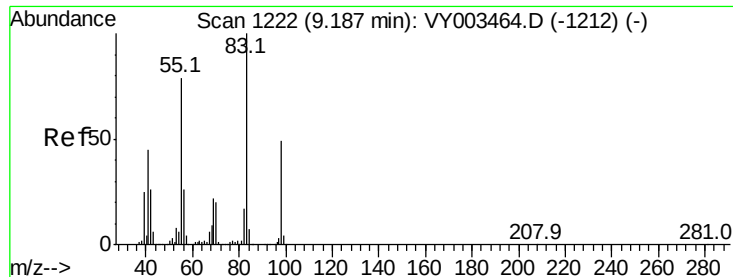
Tot Ion: 43 Resp: 8204
Ion Ratio Lower Upper
43 100
61 16.3 11.0 16.6
70 9.7 7.9 11.9



#38
Carbon Tetrachloride
Concen: 4.058 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 117 Resp: 13354
Ion Ratio Lower Upper
117 100
119 94.2 76.2 114.4
121 29.5 24.2 36.4

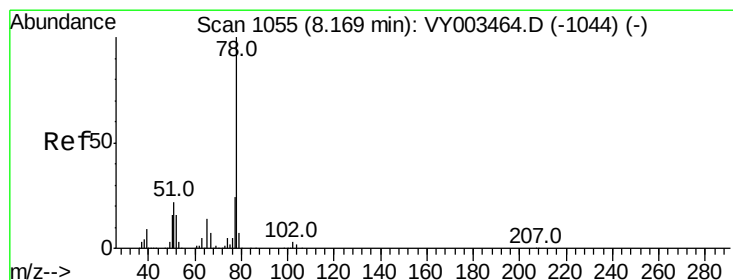
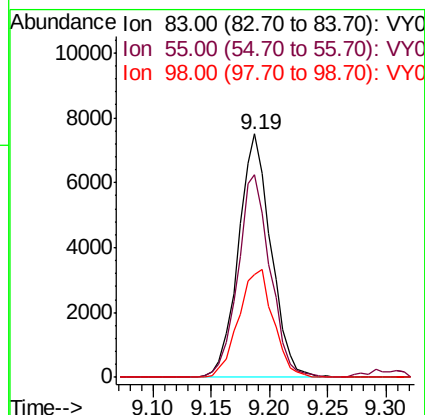
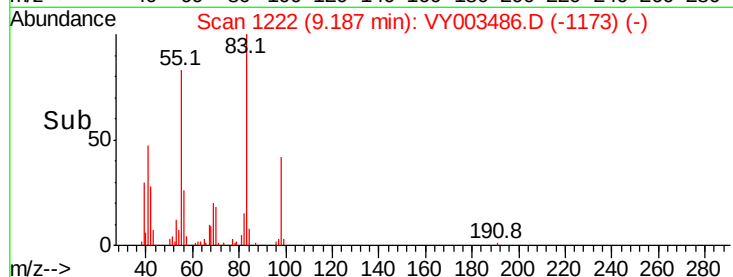
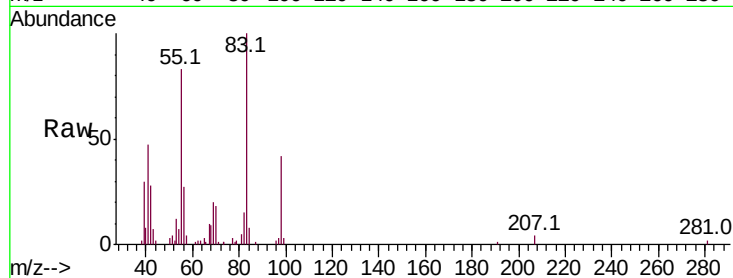




#39
Methylvlcyclohexane
Concen: 4.140 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

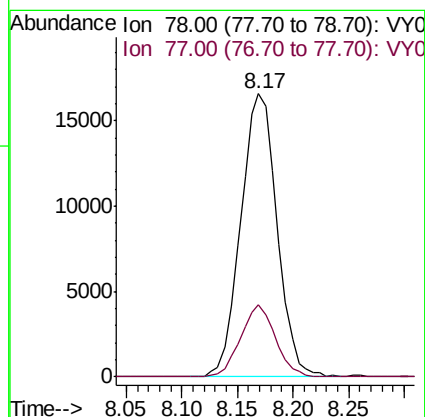
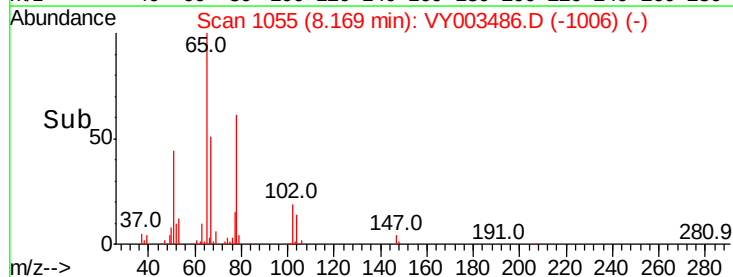
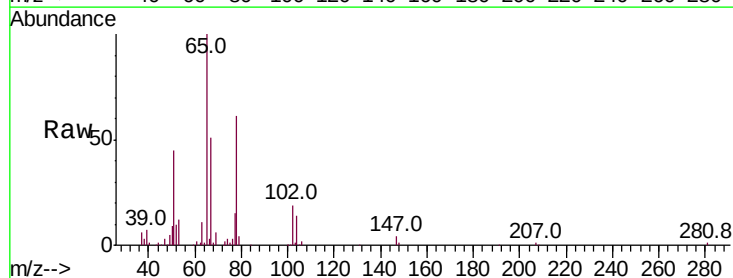
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

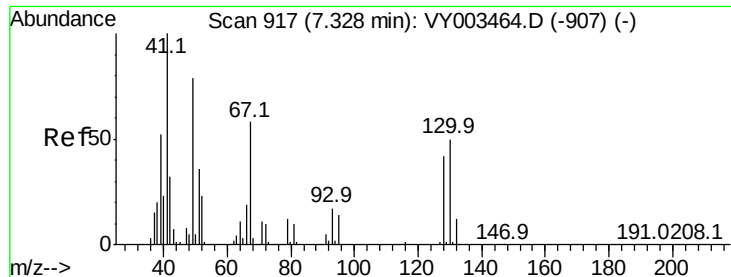
Tot Ion: 83 Resp: 14625
Ion Ratio Lower Upper
83 100
55 83.5 63.5 95.3
98 42.2 39.4 59.2



#40
Benzene
Concen: 4.252 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 78 Resp: 37537
Ion Ratio Lower Upper
78 100
77 25.4 19.4 29.0

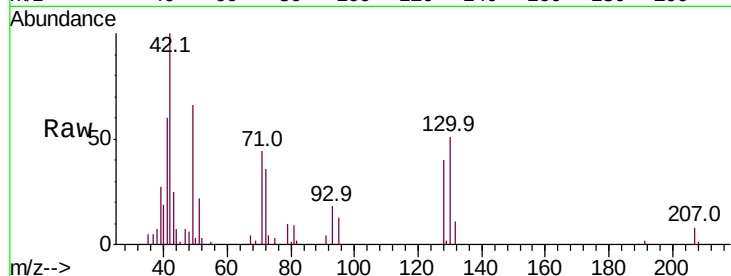




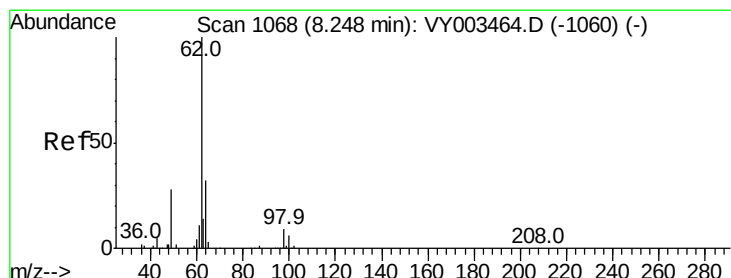
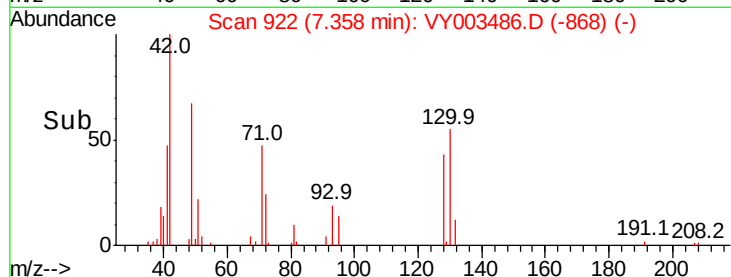
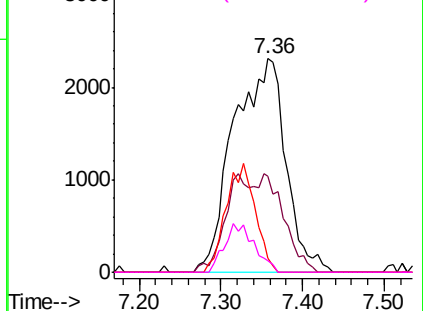
#41
Methacrylonitrile
Concen: 9.737 ug/l
RT: 7.36 min Scan# 922
Delta R.T. 0.03 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion:	41	Resp:	10243
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

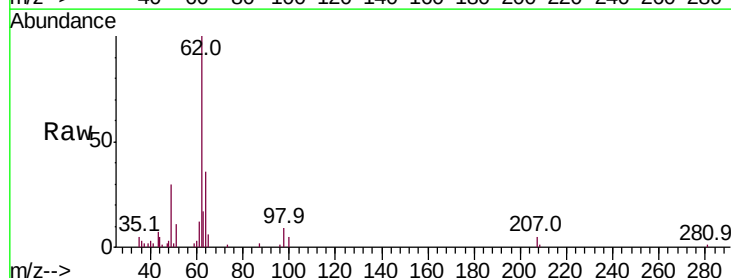


Abundance Ion 41.00 (40.70 to 41.70): VY0
Ion 39.00 (38.70 to 39.70): VY0
Ion 67.00 (66.70 to 67.70): VY0
Ion 52.00 (51.70 to 52.70): VY0

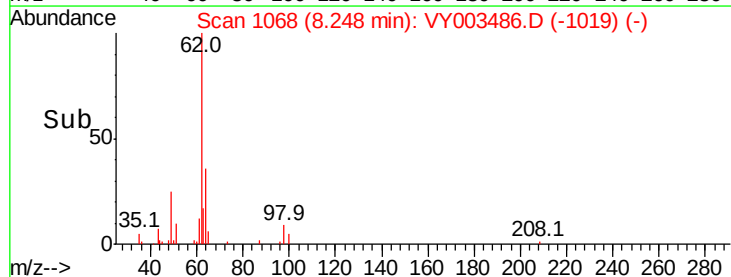
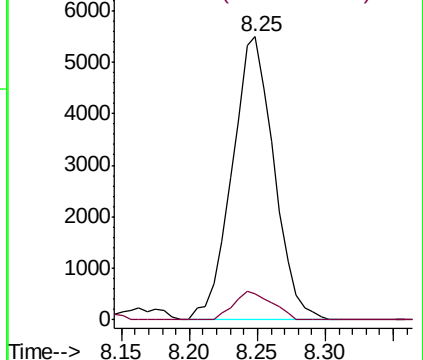


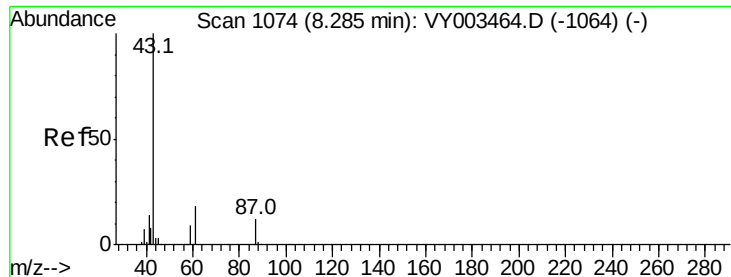
#42
1,2-Dichloroethane
Concen: 4.259 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion:	62	Resp:	11782
Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.2



Abundance Ion 61.90 (61.60 to 62.60): VY0
Ion 97.90 (97.60 to 98.60): VY0





#43

Isopropyl Acetate

Concen: 3.928 ug/l

RT: 8.28 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

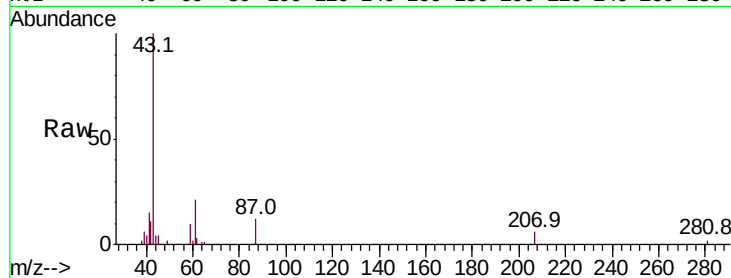
Tot Ion: 43 Resp: 13907

Ion Ratio Lower Upper

43 100

61 29.0 21.9 32.9

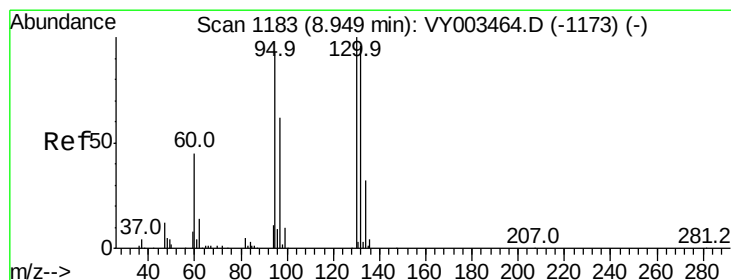
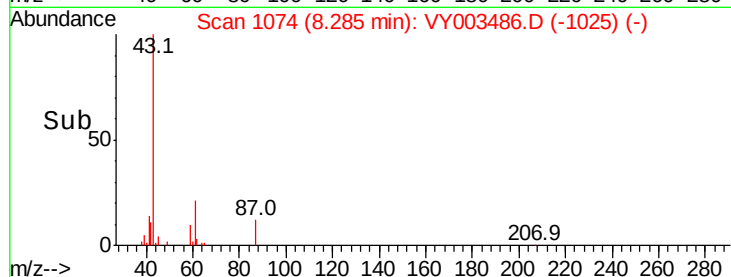
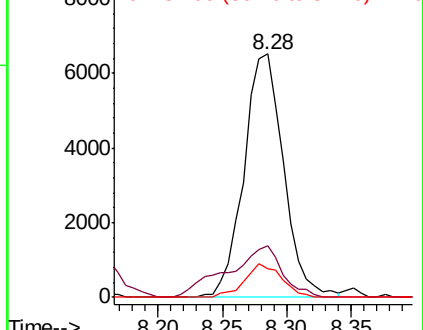
87 12.8 10.0 15.0



Abundance Ion 43.00 (42.70 to 43.70): VY003486.D (-1064) (-)

Ion 61.00 (60.70 to 61.70): VY003486.D (-1064) (-)

Ion 87.00 (86.70 to 87.70): VY003486.D (-1064) (-)



#44

Trichloroethene

Concen: 4.285 ug/l

RT: 8.94 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VY003486.D

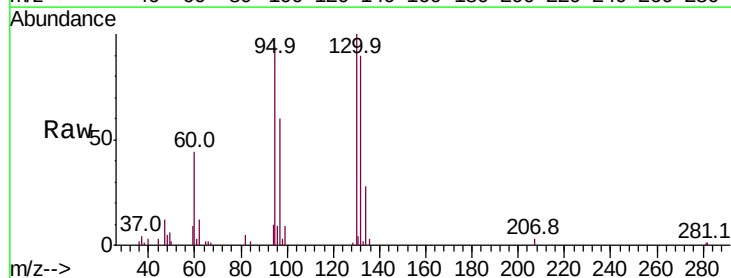
Acq: 03 Nov 2020 12:54

Tgt Ion:130 Resp: 10620

Ion Ratio Lower Upper

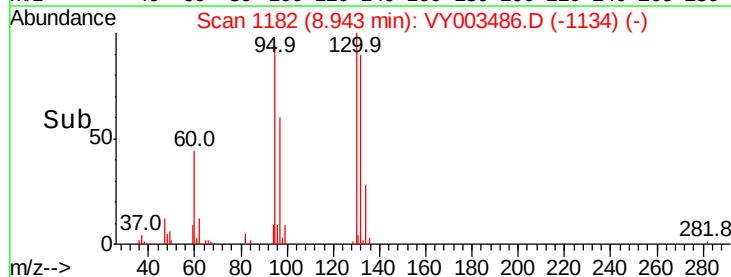
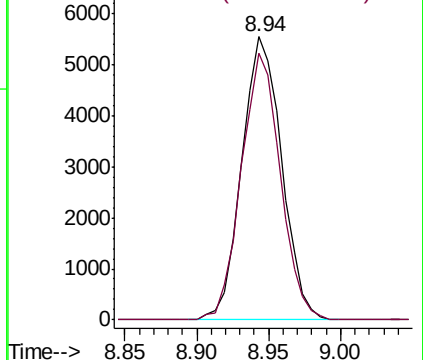
130 100

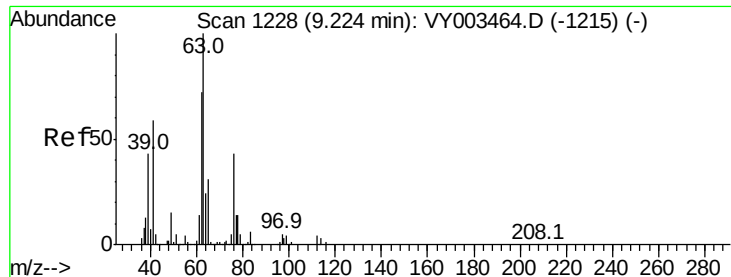
95 94.4 0.0 186.6



Abundance Ion 129.80 (129.50 to 130.50): VY003486.D (-1134) (-)

Ion 94.90 (94.60 to 95.60): VY003486.D (-1134) (-)





#45

1,2-Dichloropropane

Concen: 4.255 ug/l

RT: 9.22 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

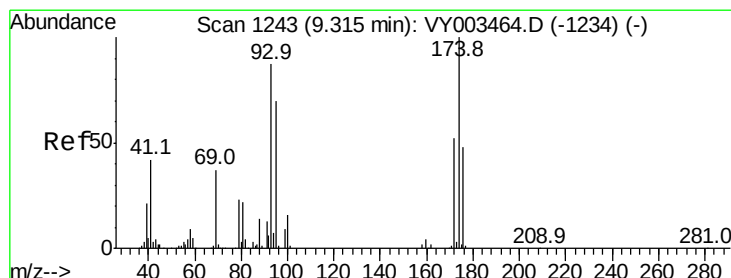
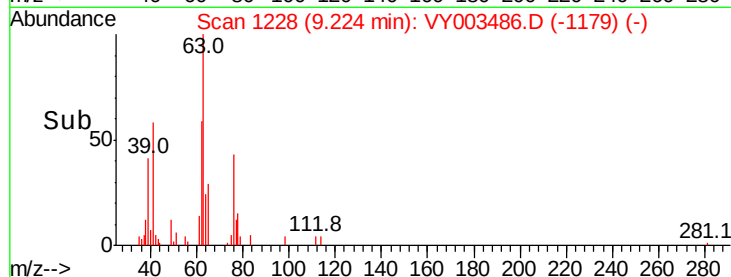
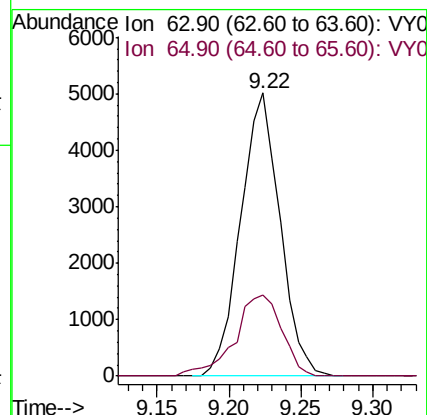
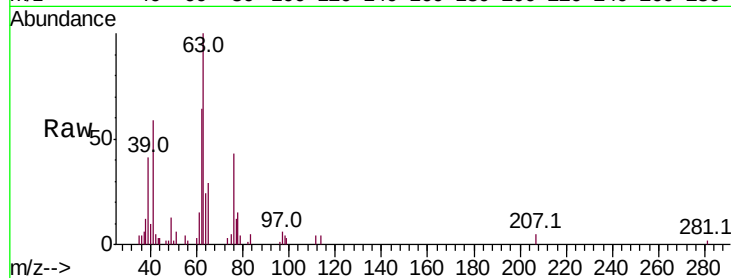
MDL-SOIL-03-QT4-2020

Tot Ion: 63 Resp: 9487

Ion Ratio Lower Upper

63 100

65 28.7 24.6 36.8



#46

Dibromomethane

Concen: 4.271 ug/l

RT: 9.32 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

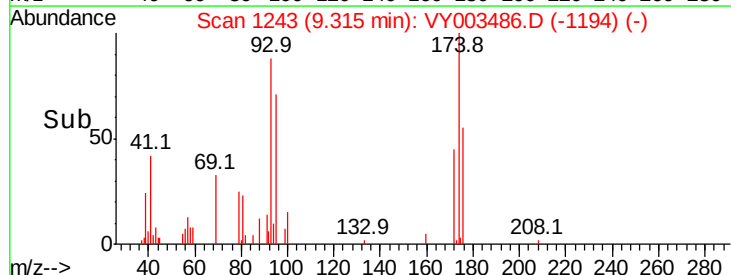
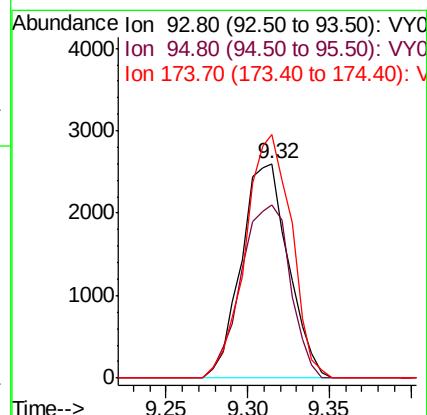
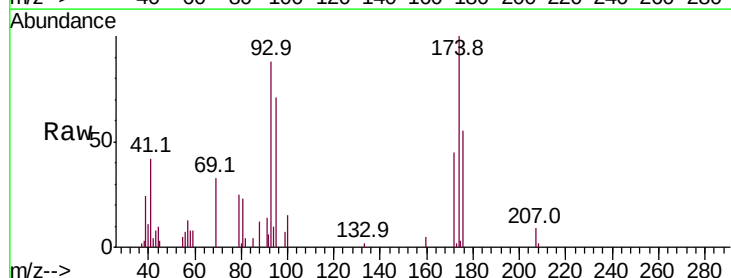
Tgt Ion: 93 Resp: 5238

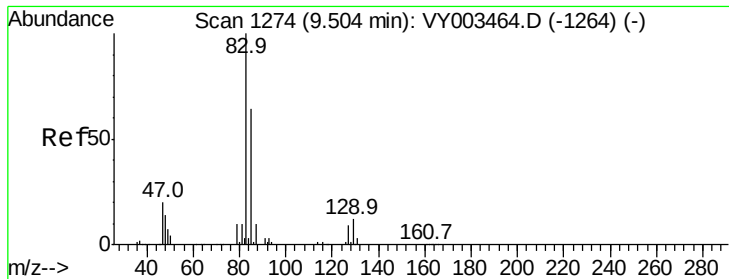
Ion Ratio Lower Upper

93 100

95 84.0 65.0 97.6

174 110.9 91.8 137.6





#47

Bromodichloromethane

Concen: 4.160 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

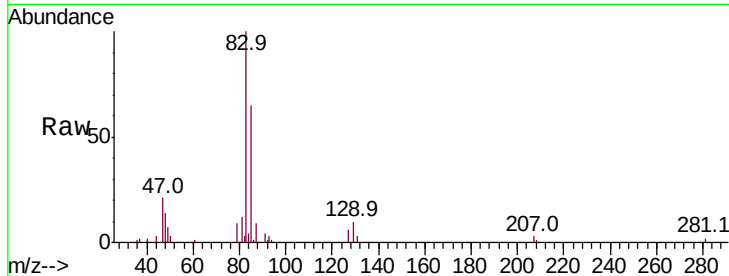
Tot Ion: 83 Resp: 12489

Ion Ratio Lower Upper

83 100

85 65.0 51.0 76.6

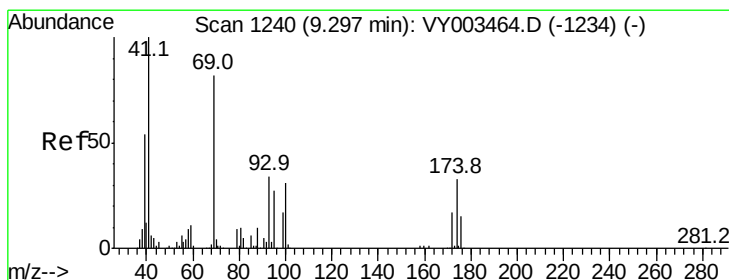
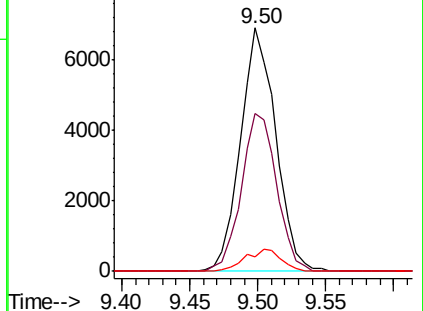
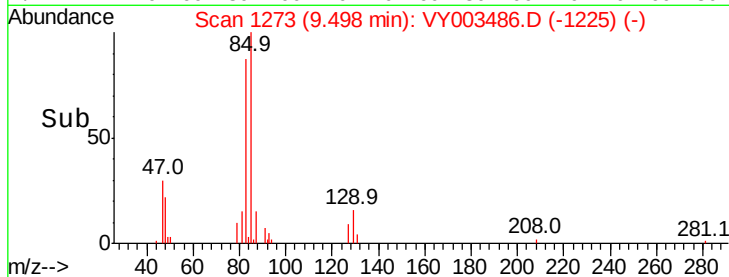
127 5.7 7.1 10.7#



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

Ion 126.80 (126.50 to 127.50): VY0



#48

Methyl methacrylate

Concen: 3.700 ug/l

RT: 9.30 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

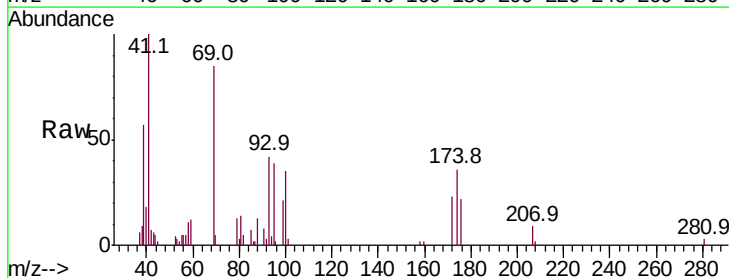
Tgt Ion: 41 Resp: 6170

Ion Ratio Lower Upper

41 100

69 83.5 65.9 98.9

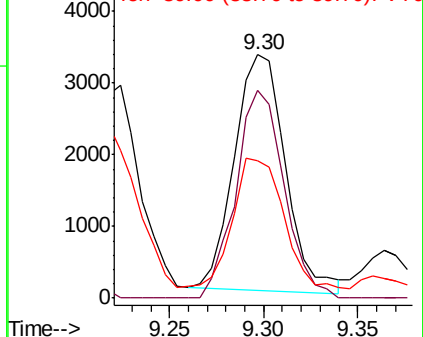
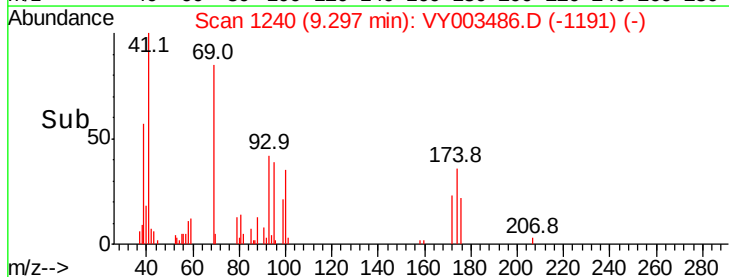
39 65.4 43.2 64.8#

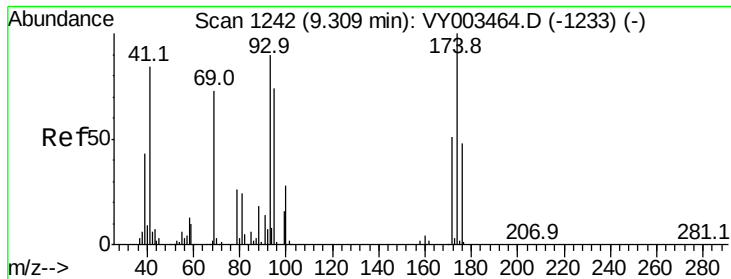


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 39.00 (38.70 to 39.70): VY0





#49

1,4-Dioxane

Concen: 82.265 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

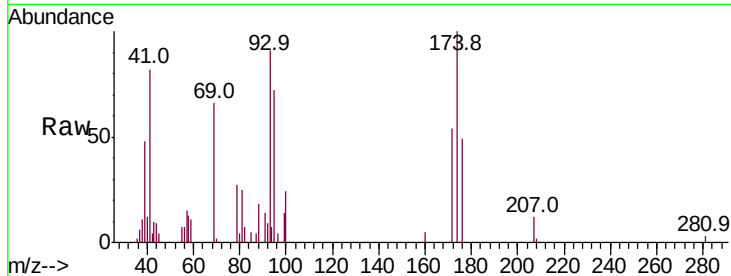
Tot Ion: 88 Resp: 1259

Ion Ratio Lower Upper

88 100

43 37.6 27.6 41.4

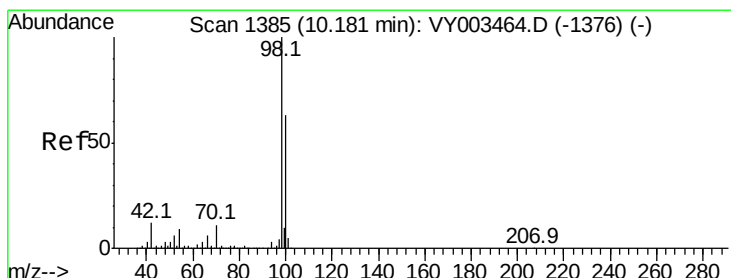
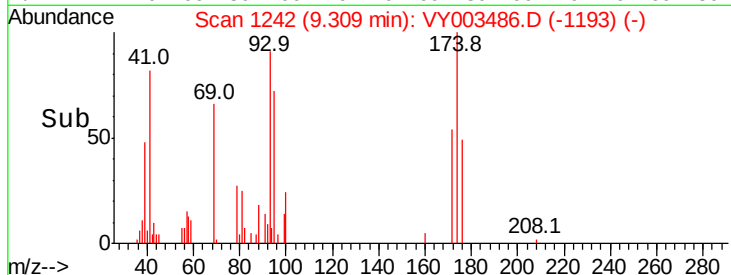
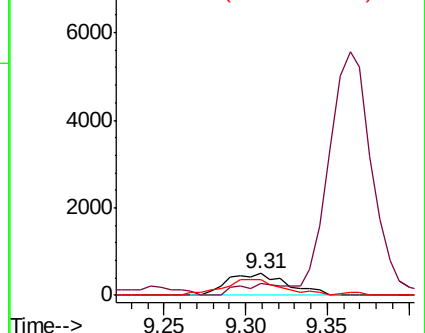
58 71.6 54.2 81.2



Abundance Ion 88.00 (87.70 to 88.70): VY003486.D (-1233) (-)

Ion 43.00 (42.70 to 43.70): VY003486.D (-1233) (-)

Ion 58.00 (57.70 to 58.70): VY003486.D (-1233) (-)



#50

Toluene-d8

Concen: 50.983 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY003486.D

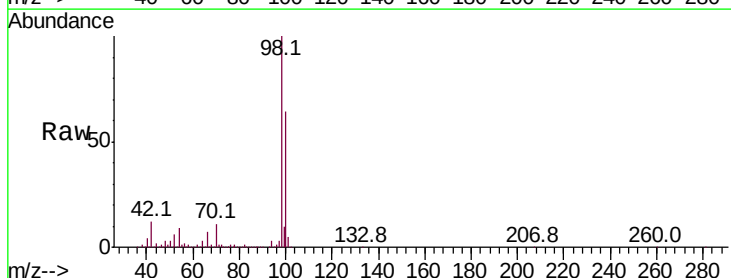
Acq: 03 Nov 2020 12:54

Tgt Ion: 98 Resp: 434253

Ion Ratio Lower Upper

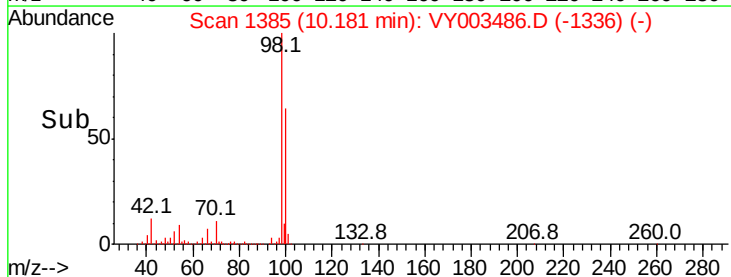
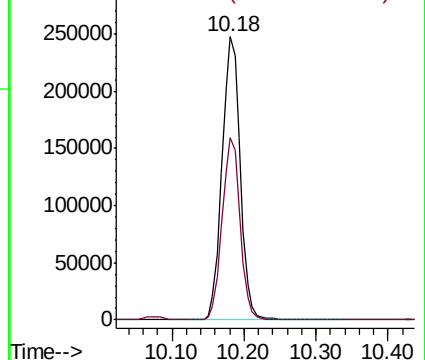
98 100

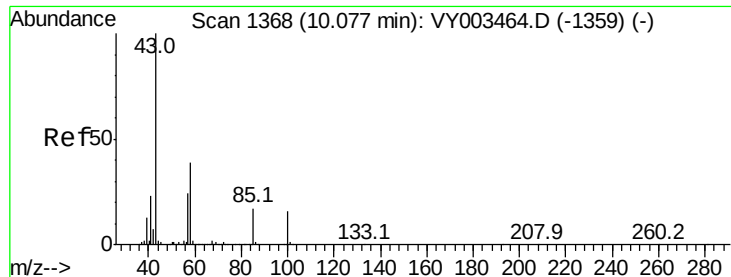
100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VY003486.D (-1376) (-)

Ion 100.00 (99.70 to 100.70): VY003486.D (-1376) (-)





#51

4-Methyl-2-Pentanone

Concen: 20.860 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

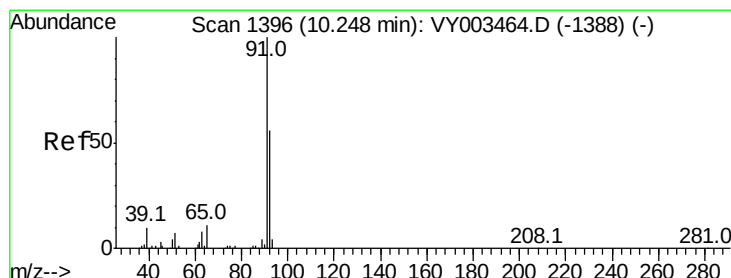
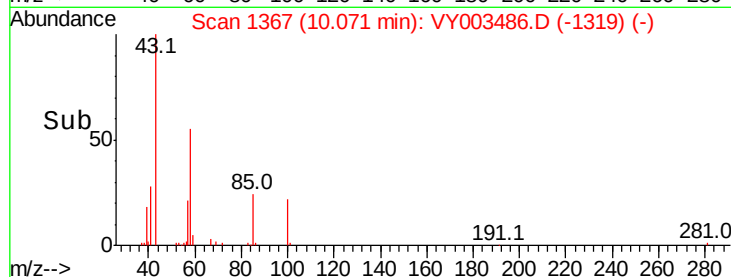
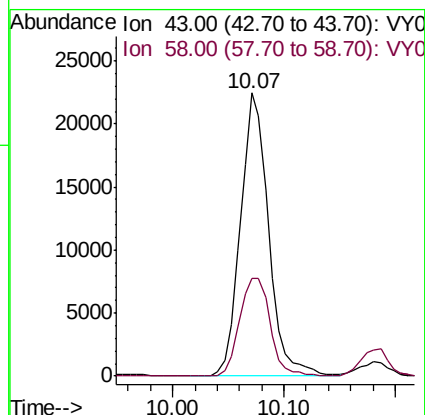
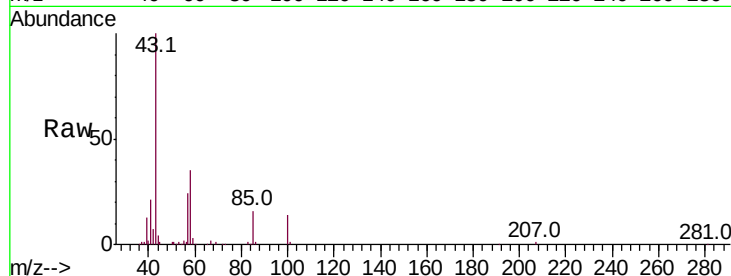
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 39346

Ion Ratio Lower Upper

43 100

58 37.8 31.0 46.4



#52

Toluene

Concen: 4.198 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.00 min

Lab File: VY003486.D

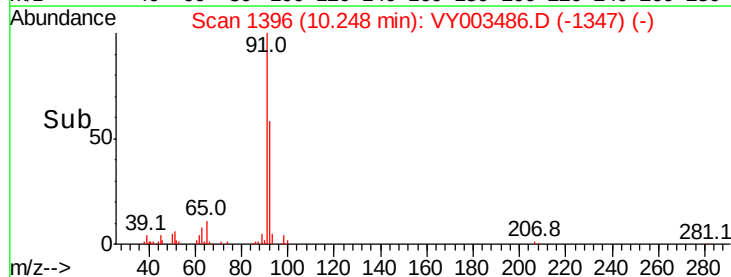
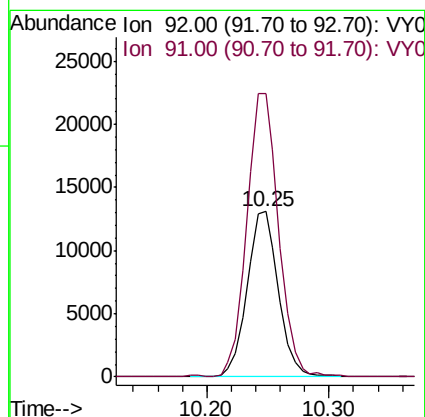
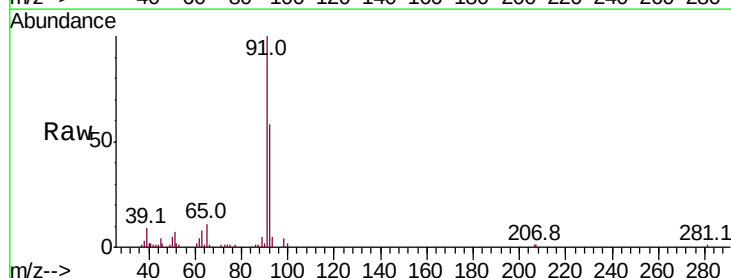
Acq: 03 Nov 2020 12:54

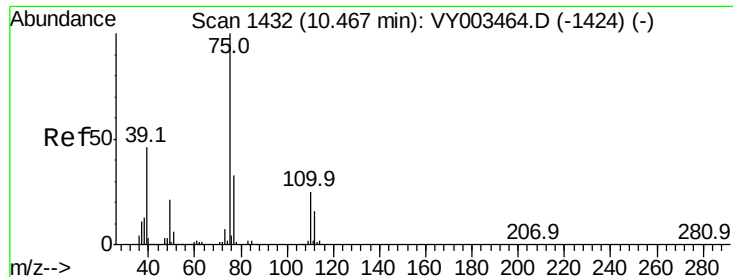
Tgt Ion: 92 Resp: 23180

Ion Ratio Lower Upper

92 100

91 174.7 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 4.034 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

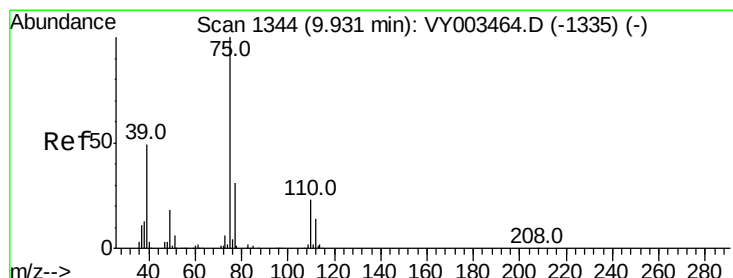
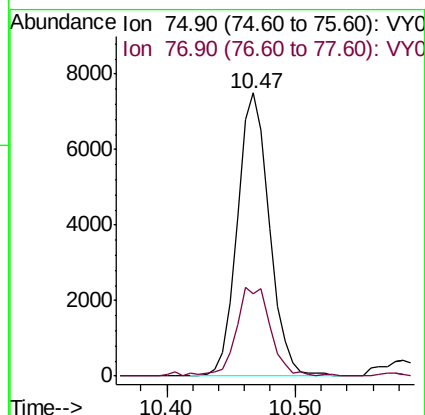
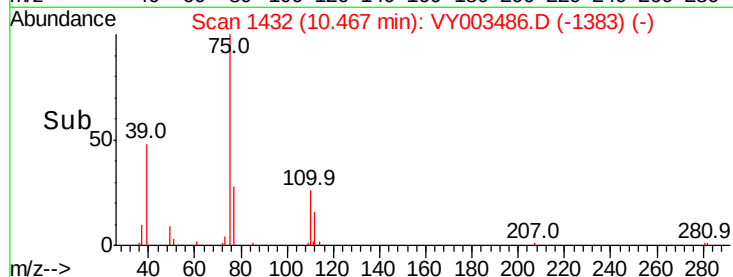
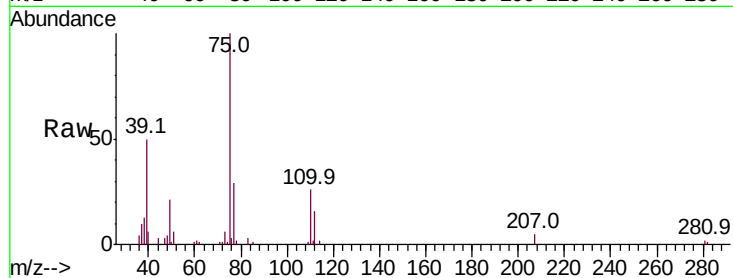
MDL-SOIL-03-QT4-2020

Tot Ion: 75 Resp: 12889

Ion Ratio Lower Upper

75 100

77 28.9 26.2 39.4



#54

cis-1,3-Dichloropropene

Concen: 4.008 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

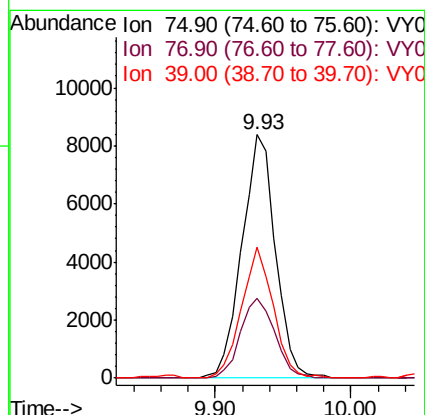
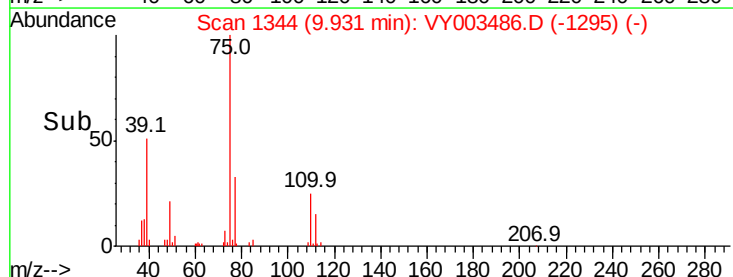
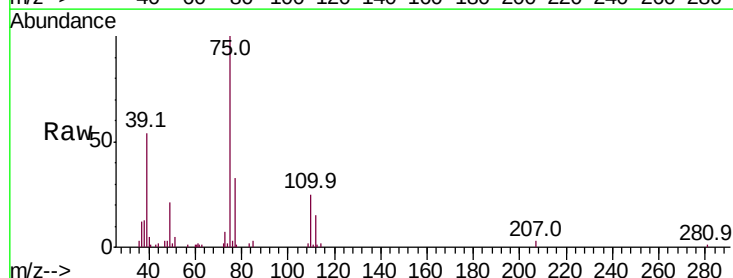
Tgt Ion: 75 Resp: 14408

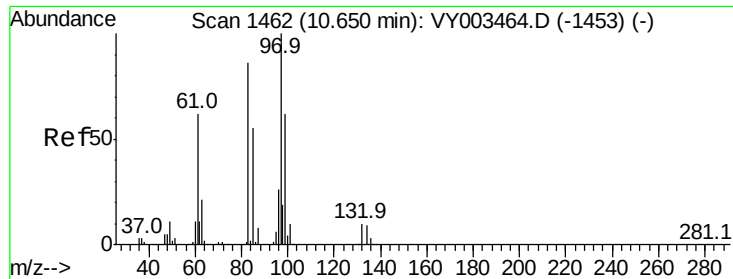
Ion Ratio Lower Upper

75 100

77 32.8 24.5 36.7

39 53.6 39.0 58.4





#55

1,1,2-Trichloroethane

Concen: 4.221 ug/l

RT: 10.64 min Scan# 1461

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 97 Resp: 7349

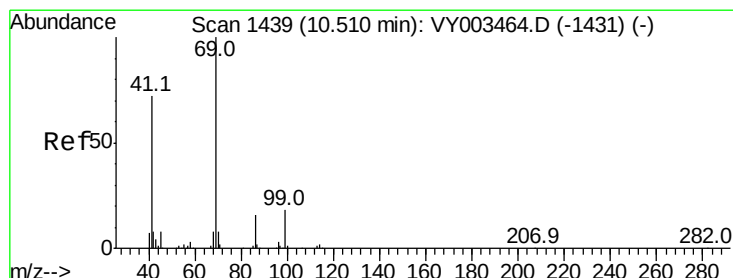
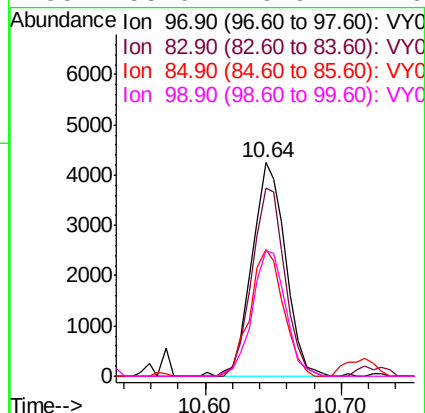
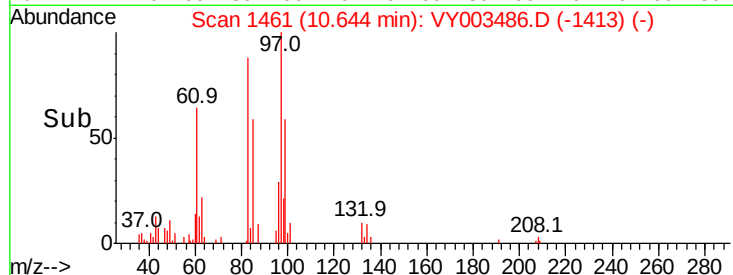
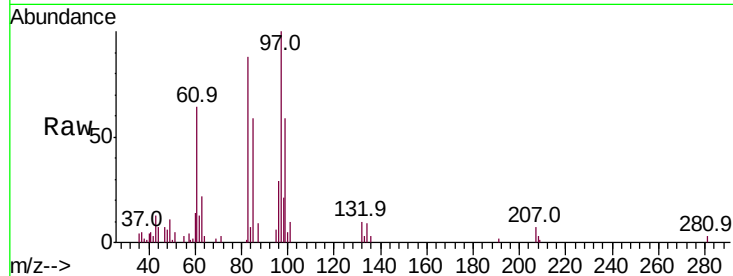
Ion	Ratio	Lower	Upper
97	100		
83	88.1	68.6	102.8
85	59.4	43.8	65.6
99	58.6	49.9	74.9

97 100

83 88.1 68.6 102.8

85 59.4 43.8 65.6

99 58.6 49.9 74.9



#56

Ethyl methacrylate

Concen: 3.686 ug/l

RT: 10.51 min Scan# 1439

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

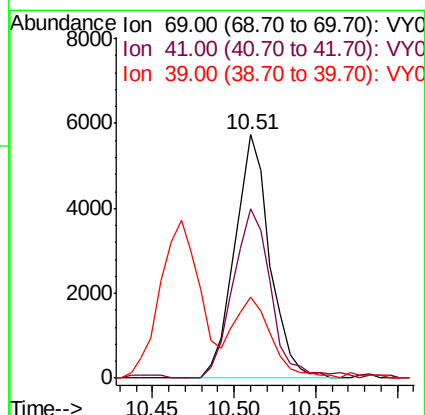
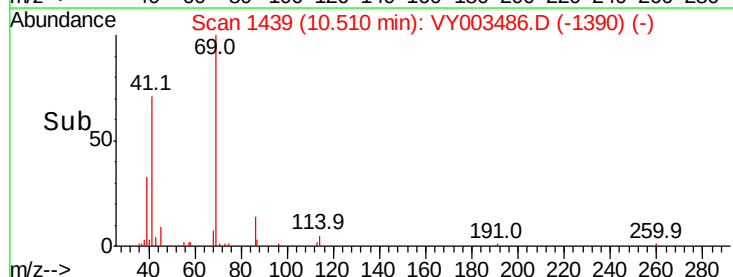
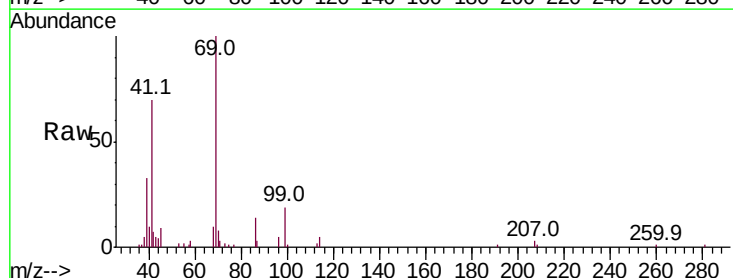
Tgt Ion: 69 Resp: 8596

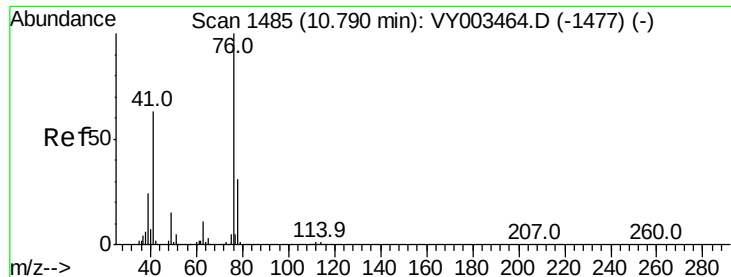
Ion	Ratio	Lower	Upper
69	100		
41	75.9	55.4	83.2
39	35.6	28.7	43.1

69 100

41 75.9 55.4 83.2

39 35.6 28.7 43.1





#57

1,3-Dichloropropane

Concen: 4.234 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

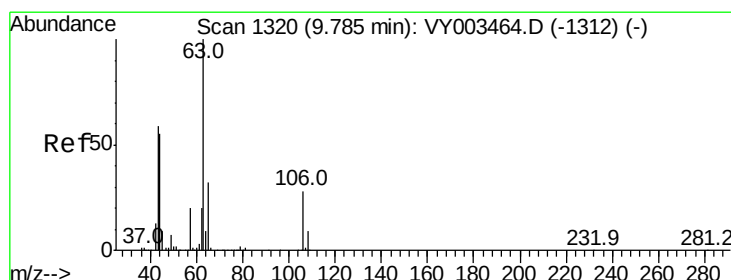
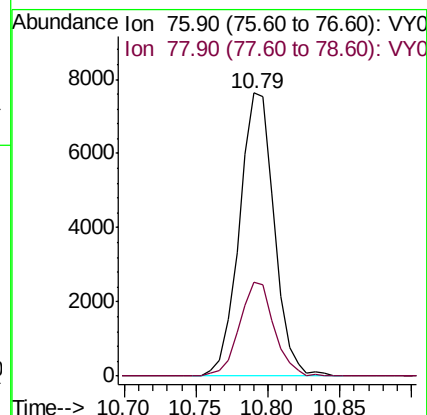
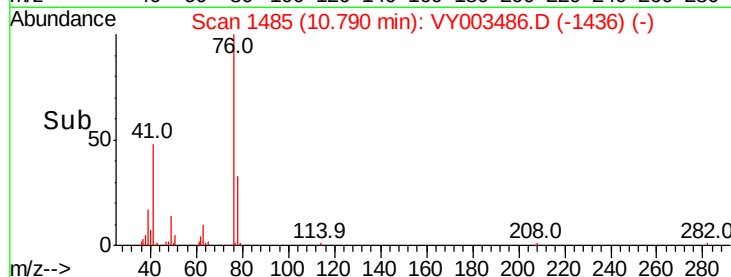
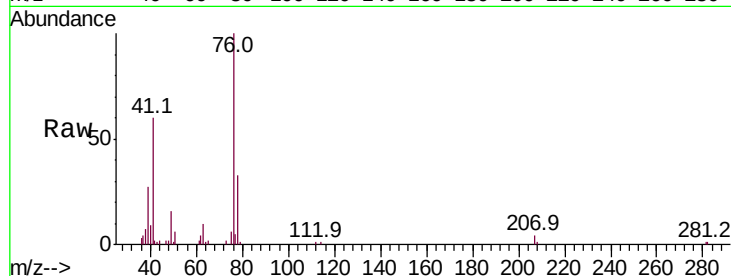
MDL-SOIL-03-QT4-2020

Tot Ion: 76 Resp: 12819

Ion Ratio Lower Upper

76 100

78 33.1 25.8 38.8



#58

2-Chloroethyl Vinyl ether

Concen: 20.485 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VY003486.D

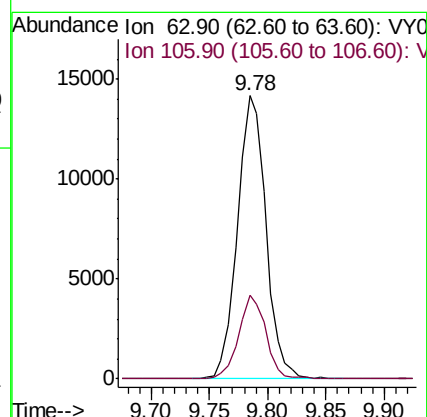
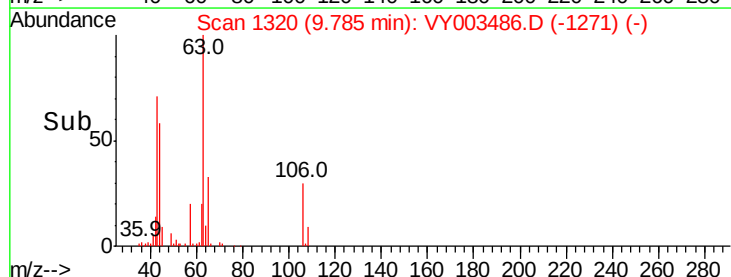
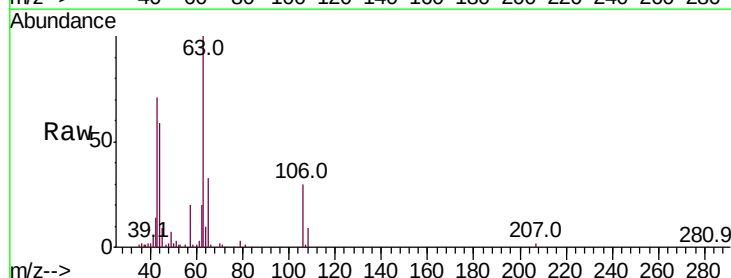
Acq: 03 Nov 2020 12:54

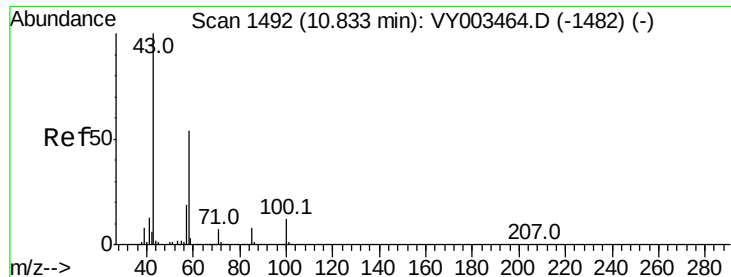
Tgt Ion: 63 Resp: 24219

Ion Ratio Lower Upper

63 100

106 28.0 22.3 33.5

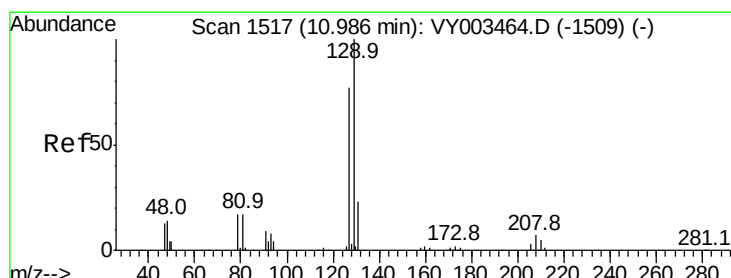
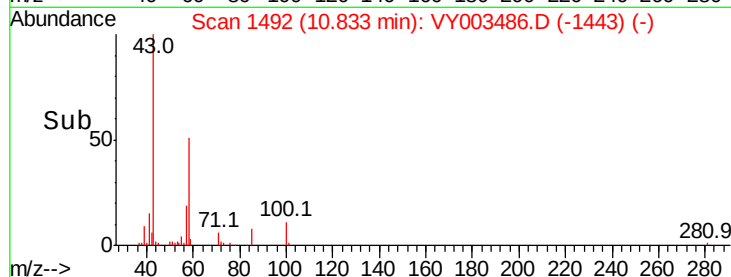
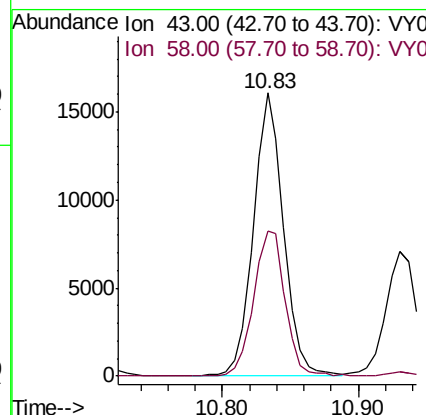
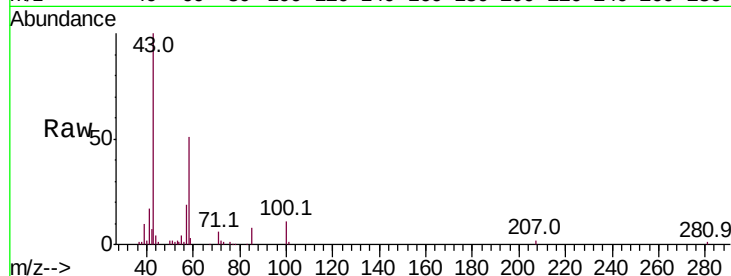




#59
2-Hexanone
Concen: 17.806 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

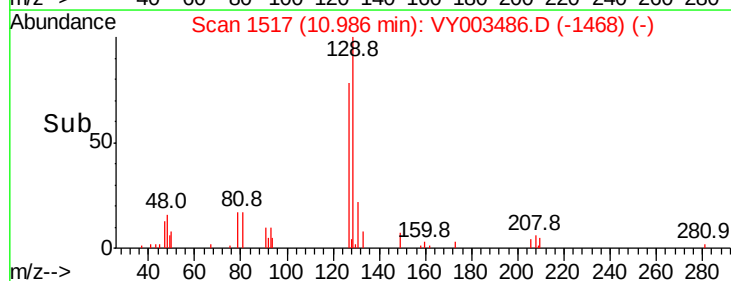
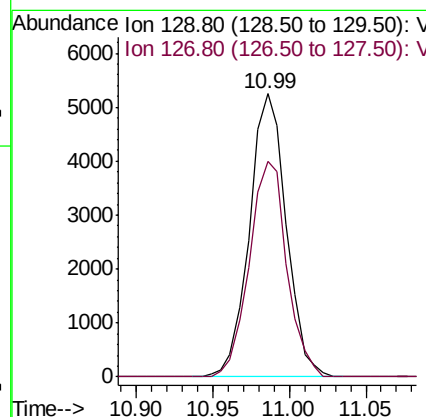
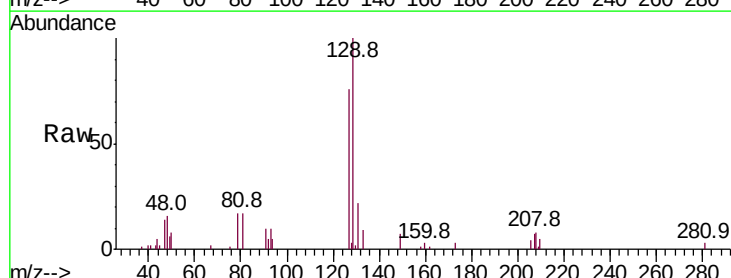
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

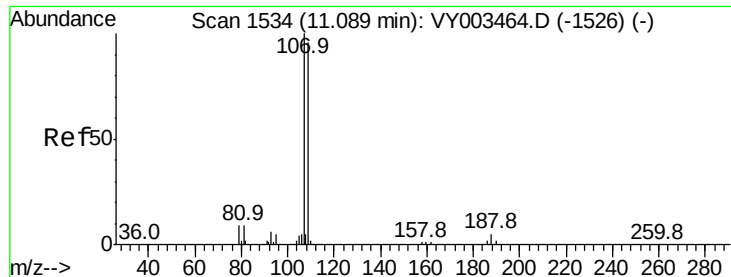
Tot Ion: 43 Resp: 24867
Ion Ratio Lower Upper
43 100
58 54.0 26.8 80.3



#60
Dibromochloromethane
Concen: 4.102 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 129 Resp: 8778
Ion Ratio Lower Upper
129 100
127 77.4 38.8 116.3

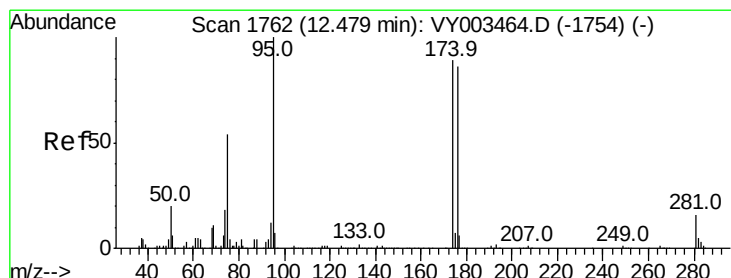
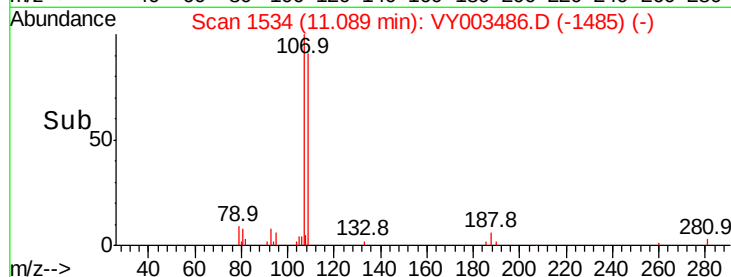
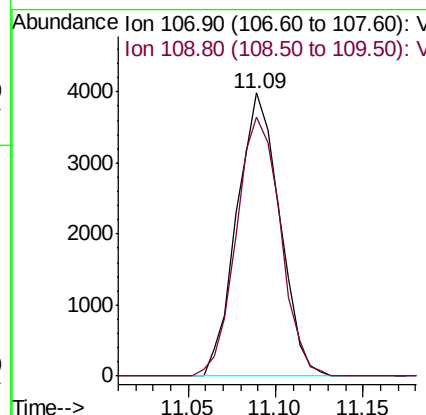
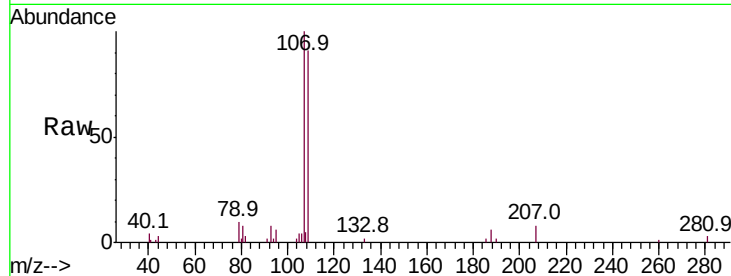




#61
 1,2-Dibromoethane
 Concen: 4.027 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

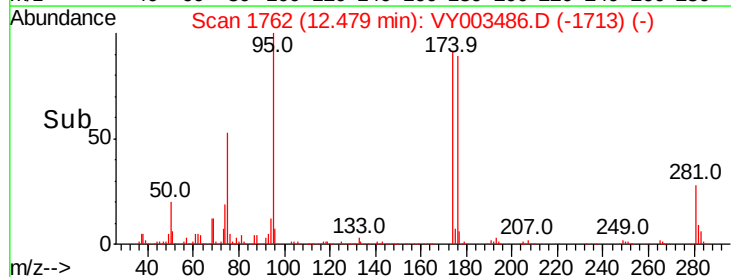
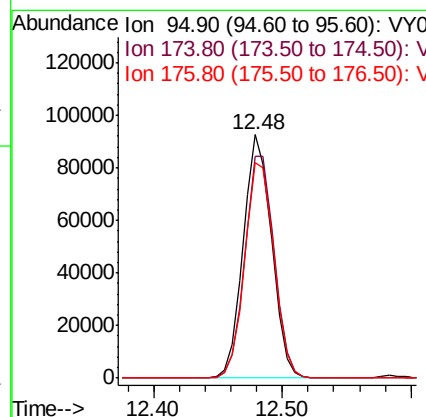
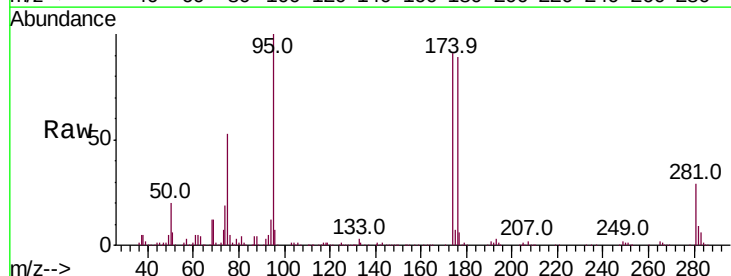
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

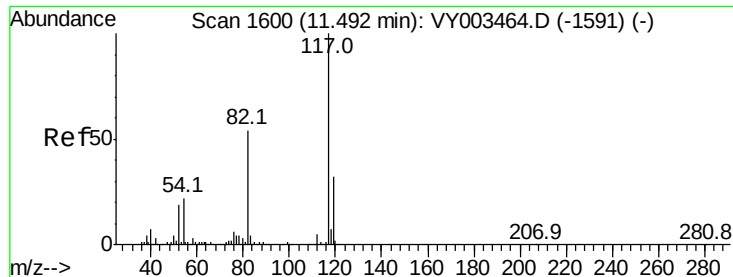
Tot Ion:107 Resp: 6769
 Ion Ratio Lower Upper
 107 100
 109 94.6 76.5 114.7



#62
 4-Bromofluorobenzene
 Concen: 50.001 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion: 95 Resp: 141108
 Ion Ratio Lower Upper
 95 100
 174 94.2 0.0 193.0
 176 91.0 0.0 187.4

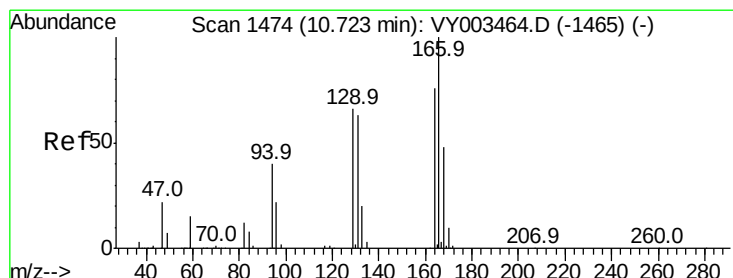
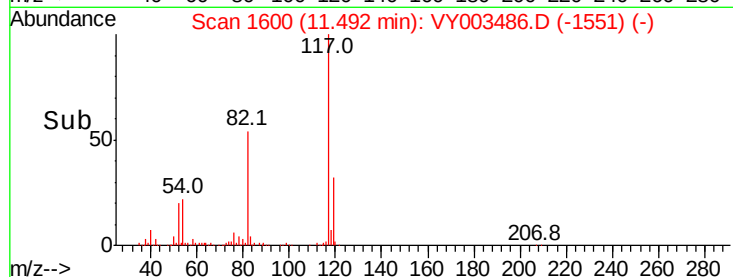
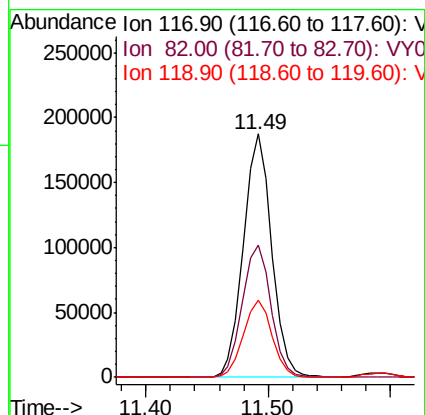
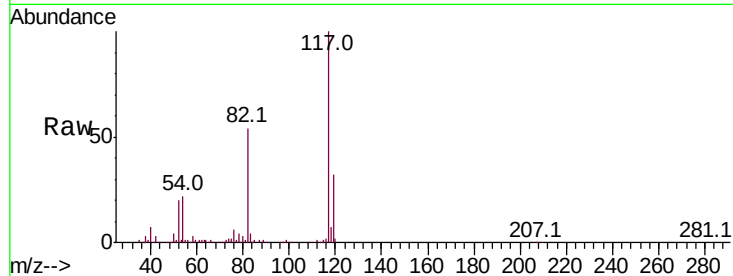




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

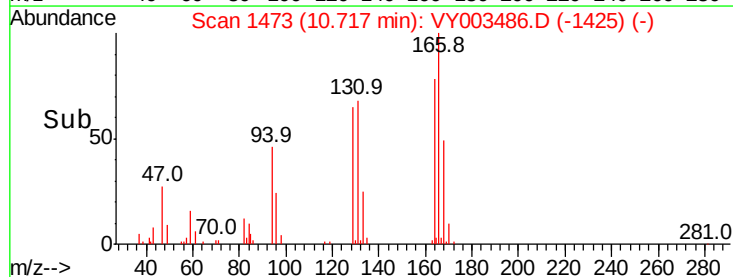
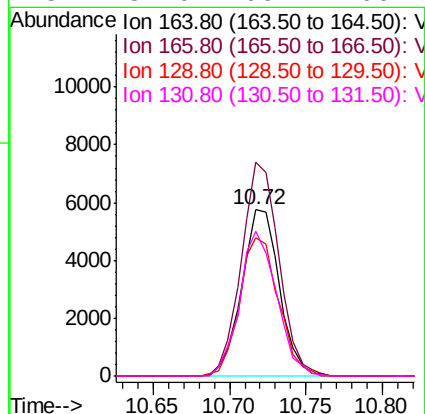
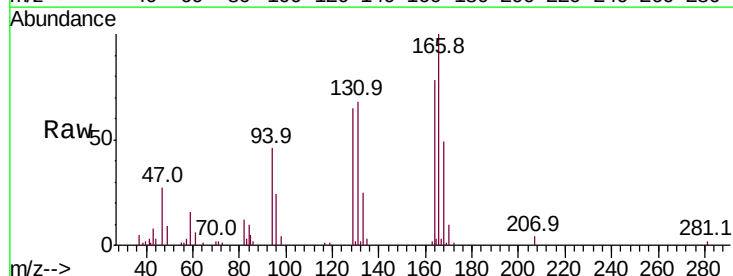
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

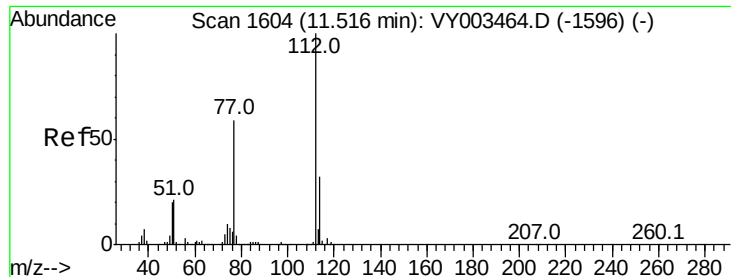
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.4	65.2
119	31.8	25.8	38.6



#64
Tetrachloroethene
Concen: 4.382 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.5	104.9	157.3
129	83.0	68.9	103.3
131	87.0	66.2	99.2

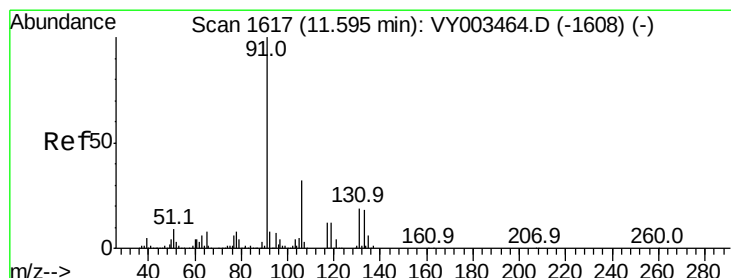
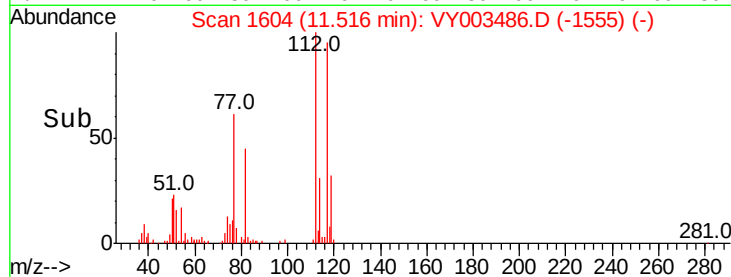
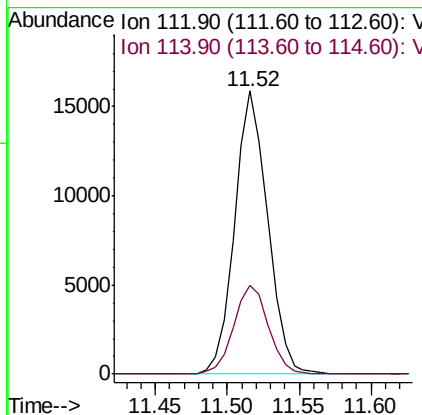
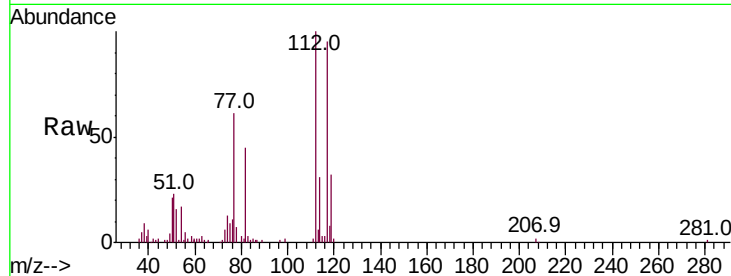




#65
Chlorobenzene
Concen: 4.333 ug/l
RT: 11.52 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

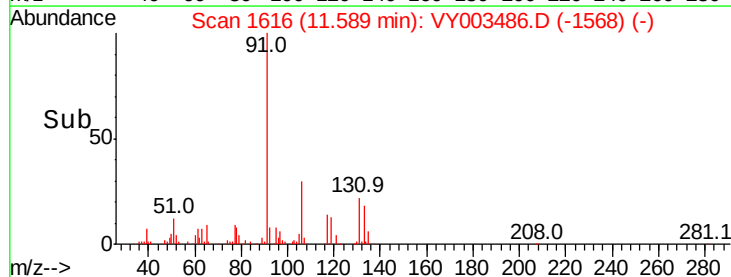
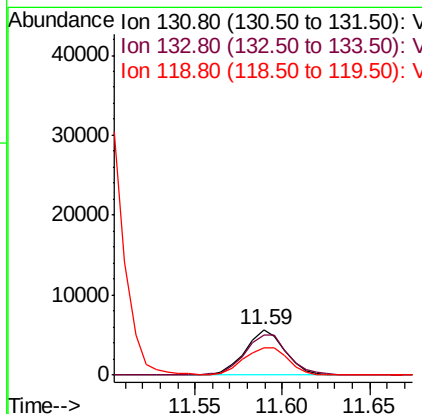
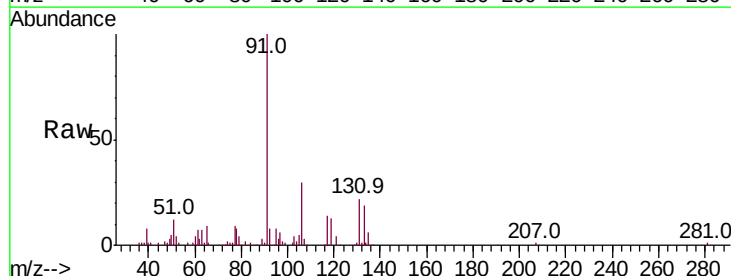
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

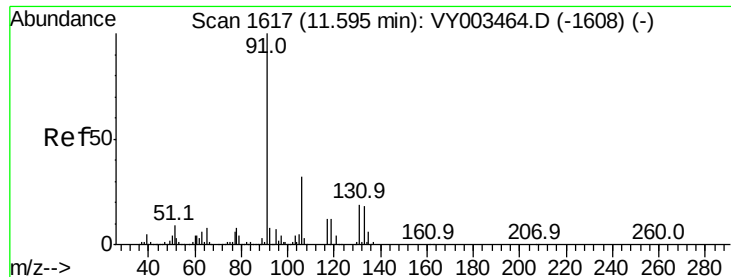
Tot Ion:112 Resp: 25308
Ion Ratio Lower Upper
112 100
114 31.5 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 4.078 ug/l
RT: 11.59 min Scan# 1616
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion:131 Resp: 8982
Ion Ratio Lower Upper
131 100
133 98.6 47.4 142.2
119 68.7 31.6 95.0

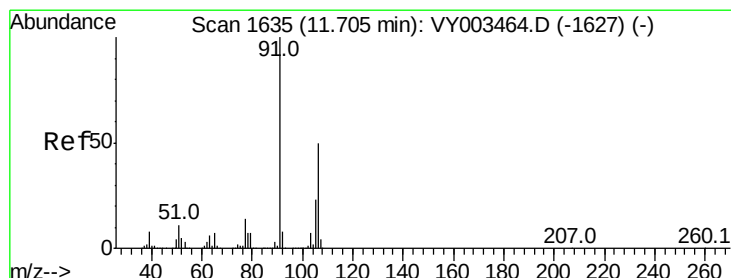
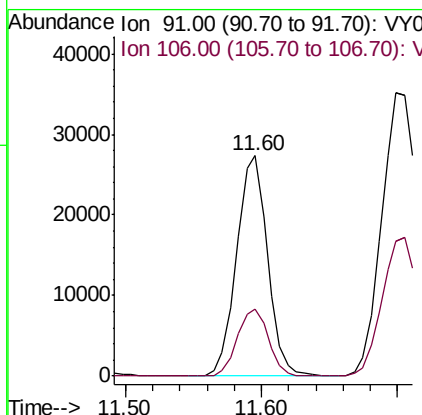
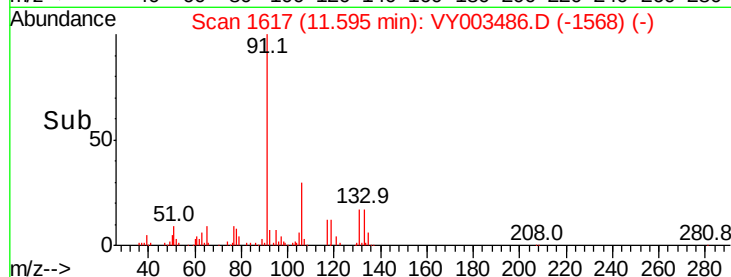
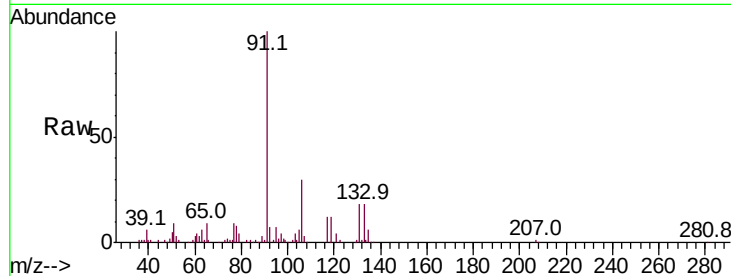




#67
Ethyl Benzene
Concen: 4.115 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

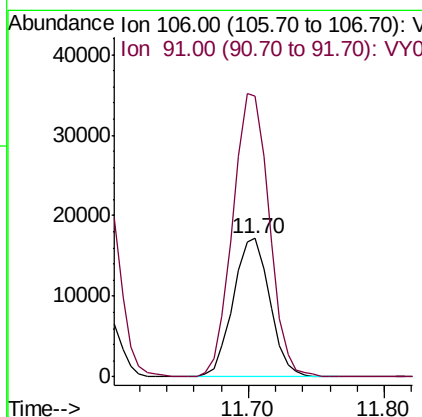
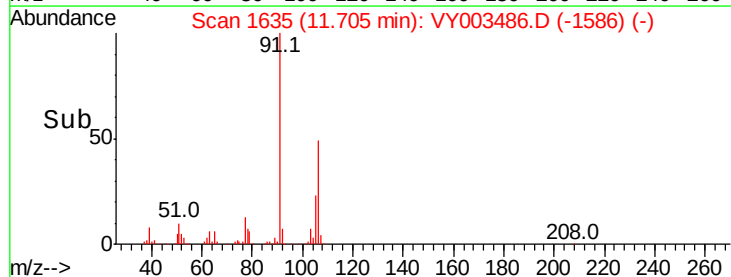
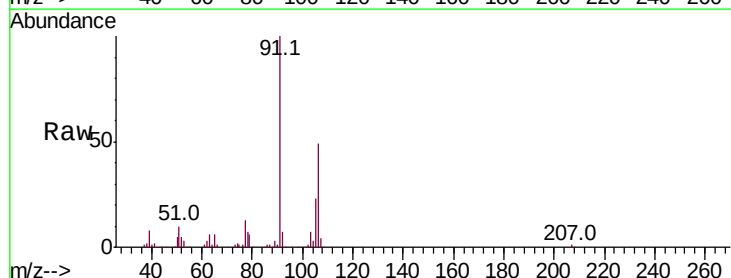
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

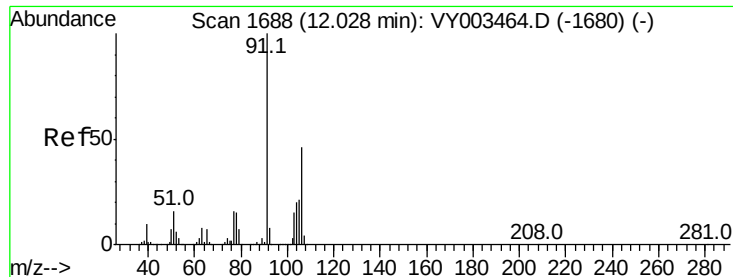
Tot Ion: 91 Resp: 43578
Ion Ratio Lower Upper
91 100
106 30.2 25.4 38.0



#68
m/p-Xylenes
Concen: 8.080 ug/l
RT: 11.70 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 106 Resp: 32425
Ion Ratio Lower Upper
106 100
91 203.7 161.0 241.6

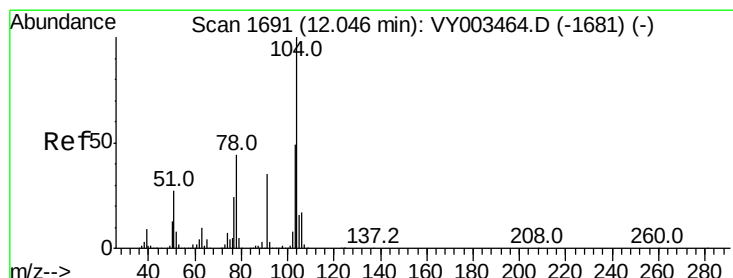
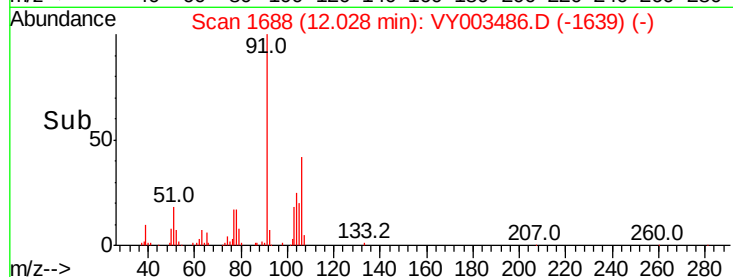
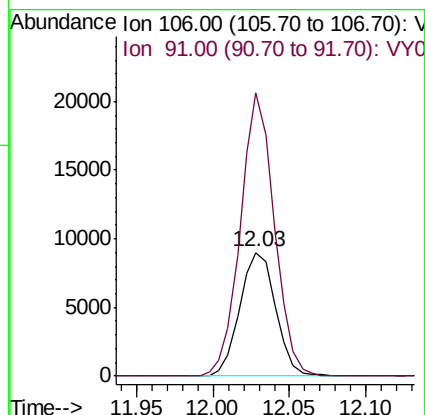
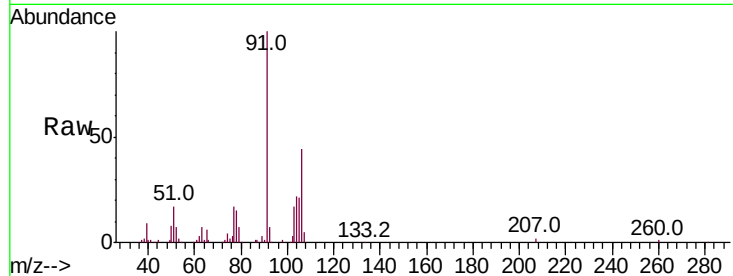




#69
o-Xylene
Concen: 3.966 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

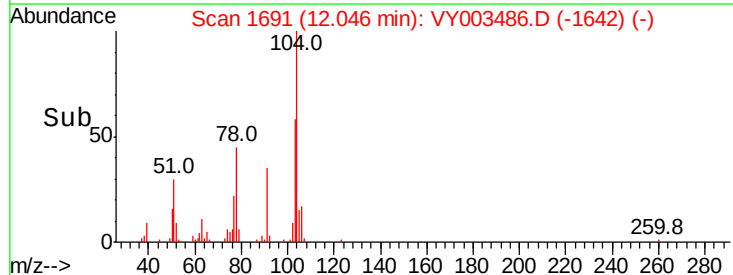
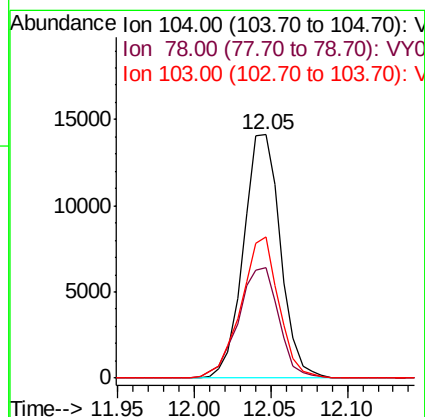
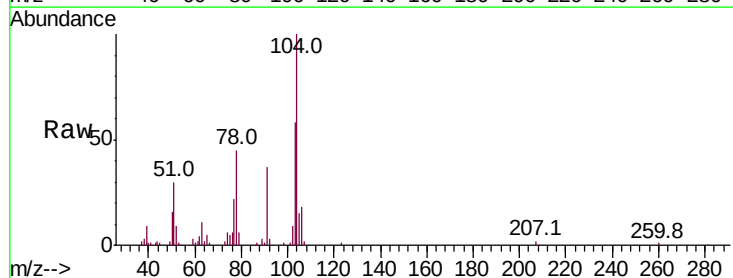
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

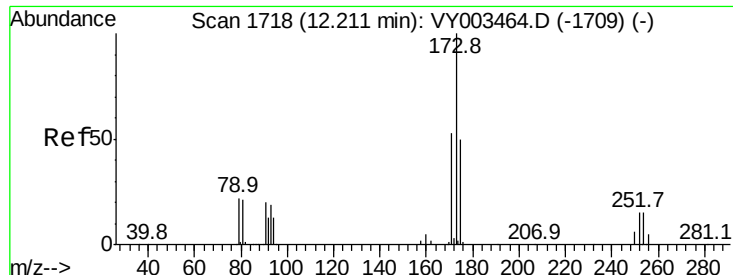
Tot Ion:106 Resp: 14640
Ion Ratio Lower Upper
106 100
91 216.2 105.5 316.5



#70
Styrene
Concen: 3.788 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion:104 Resp: 23741
Ion Ratio Lower Upper
104 100
78 49.7 39.5 59.3
103 59.3 44.2 66.2

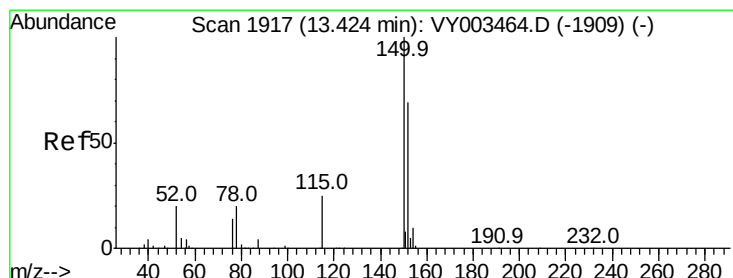
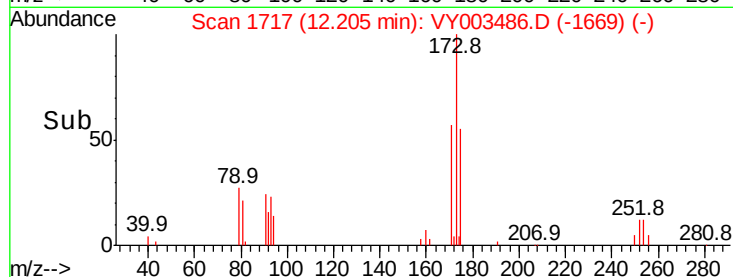
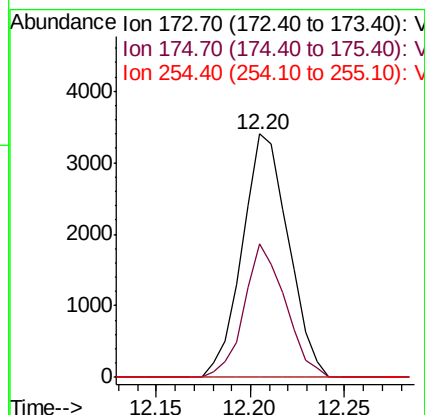
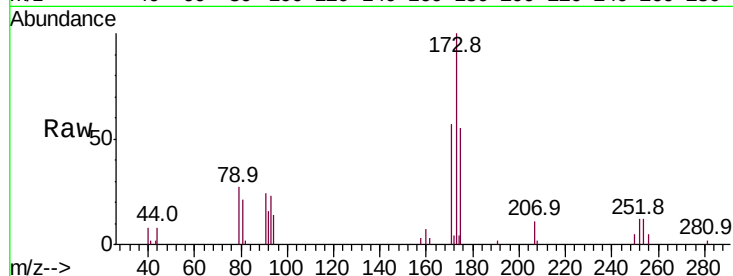




#71
Bromoform
Concen: 3.926 ug/l
RT: 12.20 min Scan# 1717
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

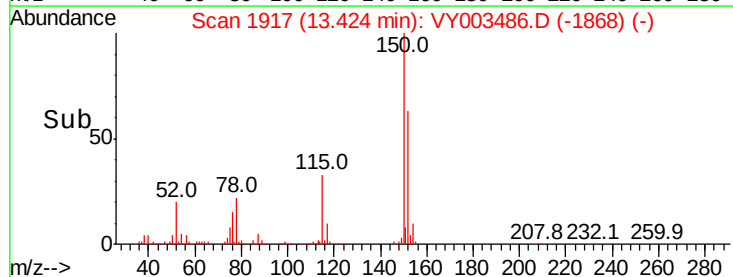
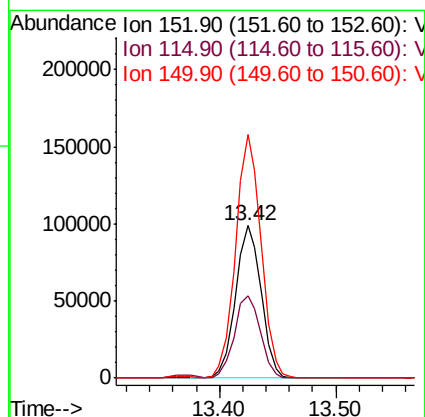
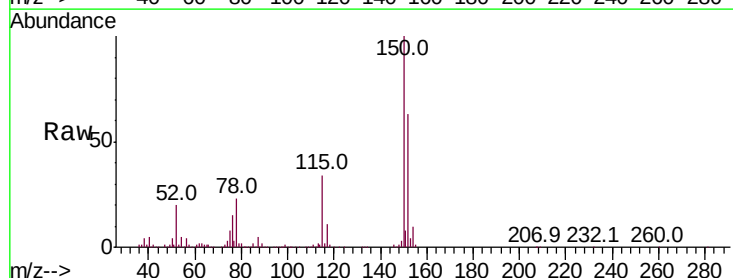
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

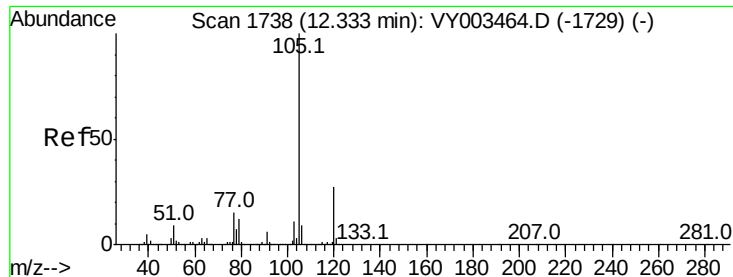
Tot Ion:173 Resp: 5764
Ion Ratio Lower Upper
173 100
175 49.0 24.7 74.1
254 0.0 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion:152 Resp: 151063
Ion Ratio Lower Upper
152 100
115 55.4 27.5 82.4
150 159.1 0.0 345.8





#73

Isopropylbenzene

Concen: 4.161 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

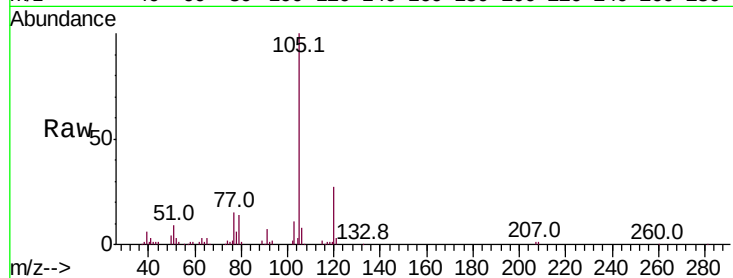
MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 41059

Ion Ratio Lower Upper

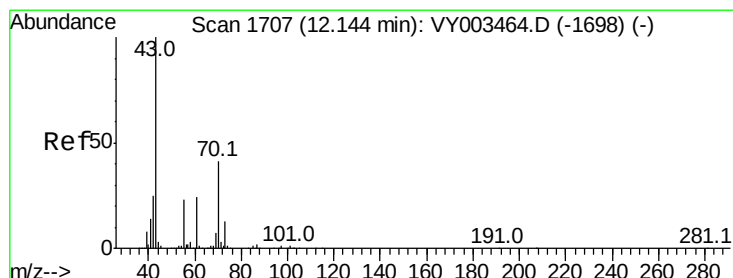
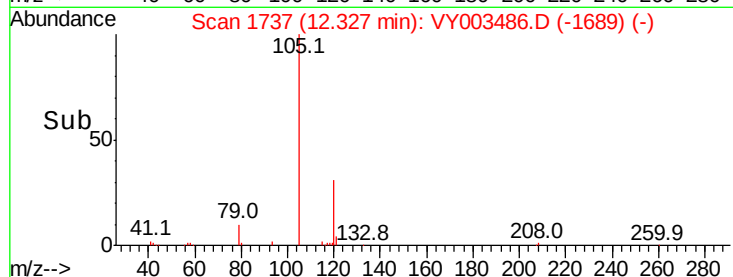
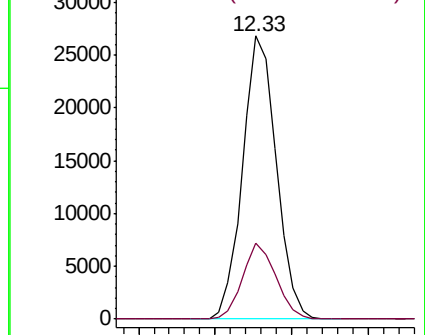
105 100

120 26.5 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 3.944 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion: 43 Resp: 11023

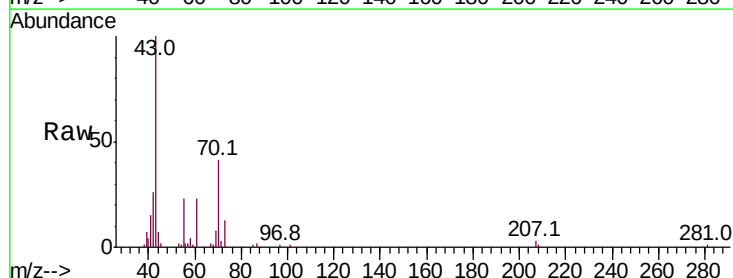
Ion Ratio Lower Upper

43 100

70 40.2 33.1 49.7

55 24.0 19.2 28.8

61 23.1 19.0 28.6

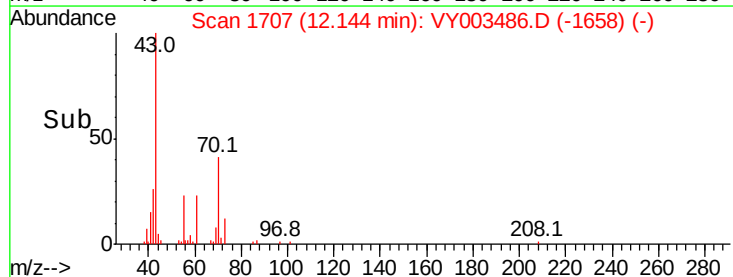
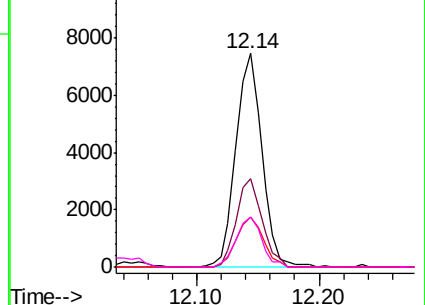


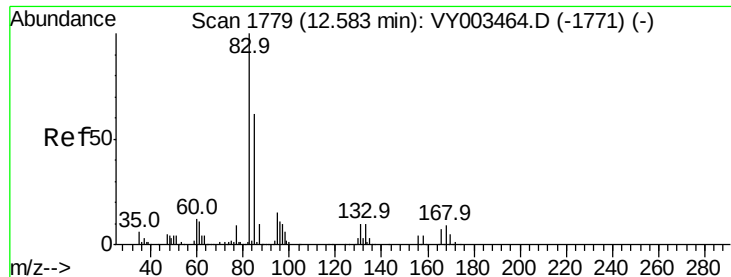
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 4.098 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

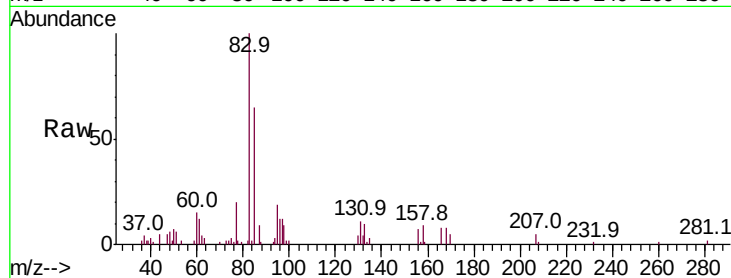
Tot Ion: 83 Resp: 8637

Ion Ratio Lower Upper

83 100

131 10.2 5.4 16.2

85 66.7 32.0 96.2



Abundance Ion 82.90 (82.60 to 83.60): VY003486.D (-1771) (-)

Ion 130.80 (130.50 to 131.50): VY003486.D (-1771) (-)

Ion 84.90 (84.60 to 85.60): VY003486.D (-1771) (-)

12.58

6000

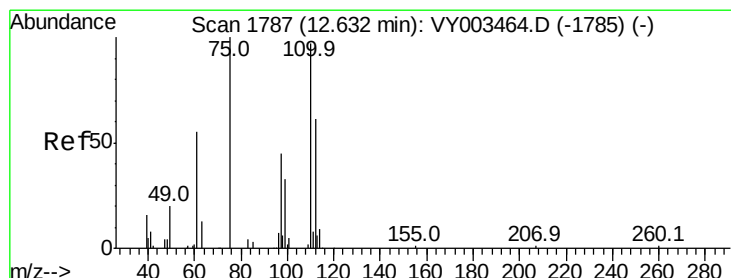
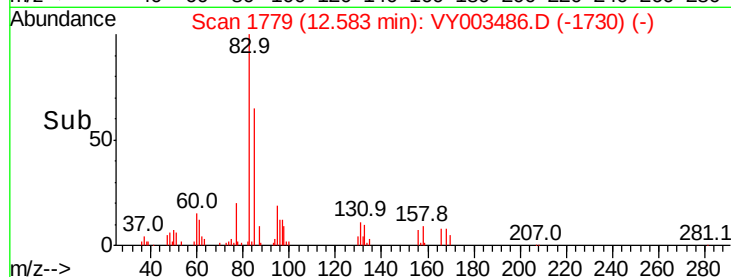
4000

2000

0

12.55 12.60

Time-->



#76

1,2,3-Trichloropropane

Concen: 7.396 ug/l

RT: 12.63 min Scan# 1787

Delta R.T. 0.00 min

Lab File: VY003486.D

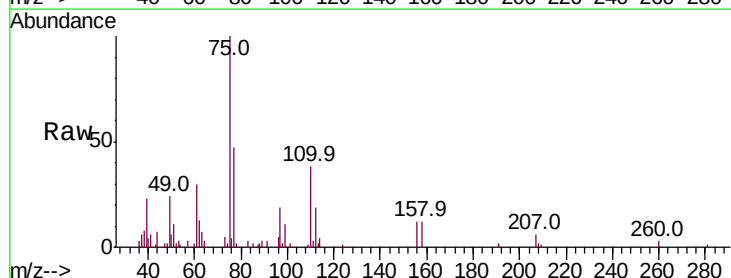
Acq: 03 Nov 2020 12:54

Tgt Ion: 75 Resp: 11821

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY003486.D (-1785) (-)

Ion 77.00 (76.70 to 77.70): VY003486.D (-1785) (-)

12.63

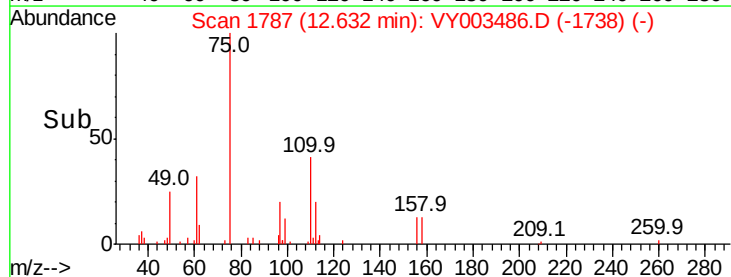
10000

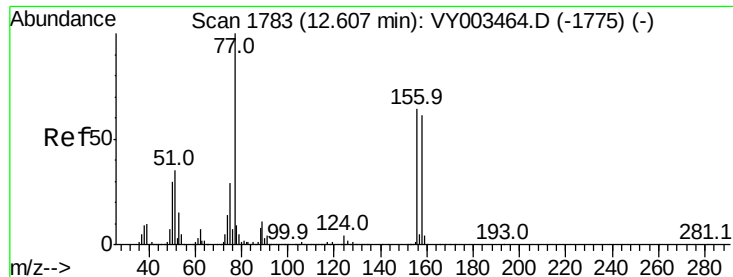
5000

0

12.50 12.60 12.70

Time-->

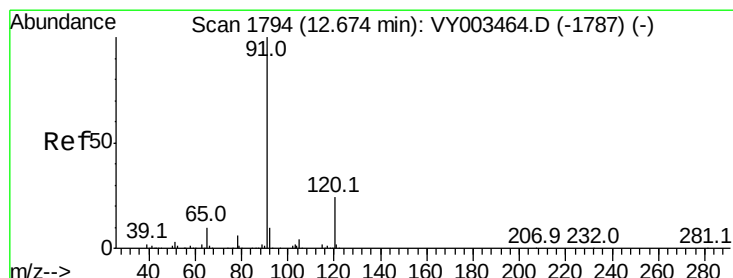
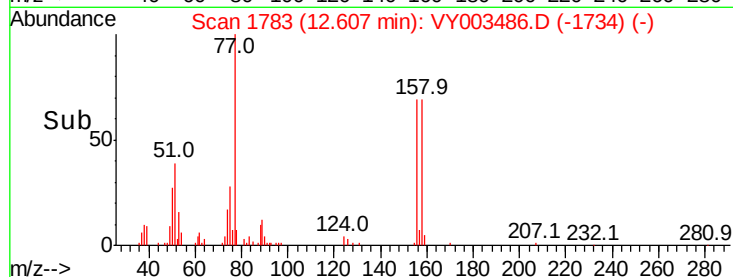
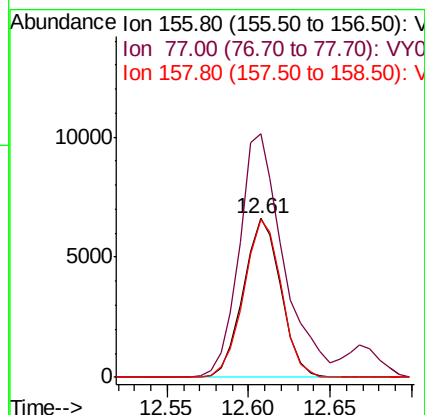
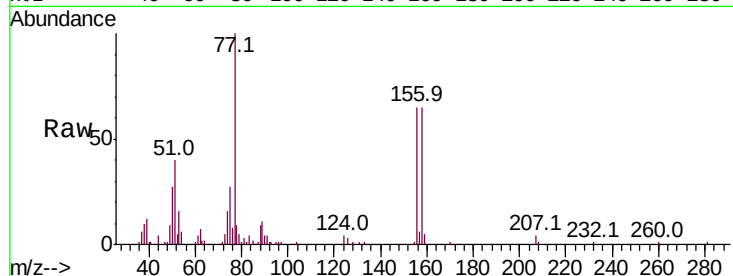




#77
Bromobenzene
Concen: 4.216 ug/l
RT: 12.61 min Scan# 1783
Delta R.T. 0.00 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

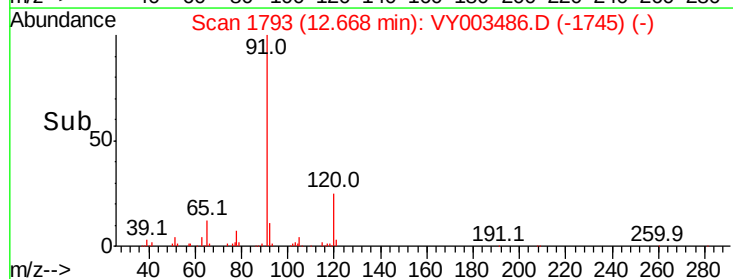
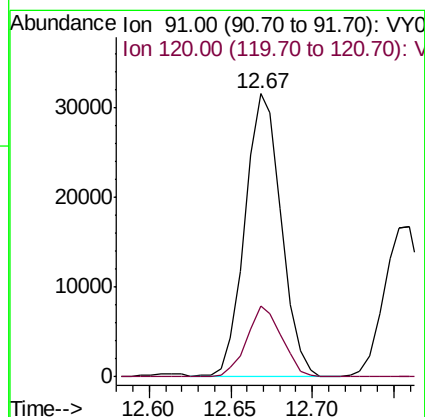
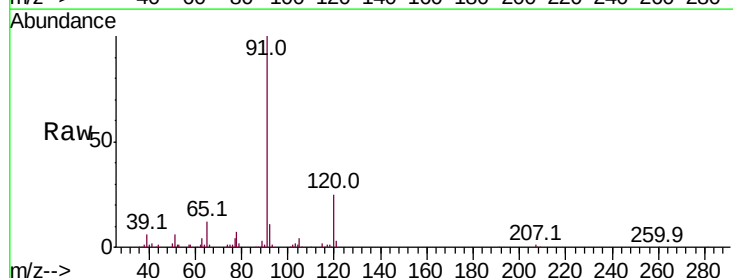
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

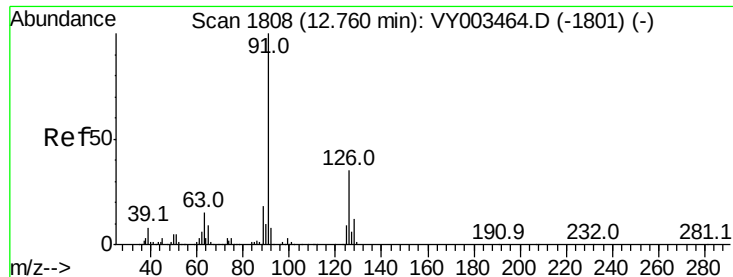
Tot Ion:156 Resp: 10570
Ion Ratio Lower Upper
156 100
77 181.0 87.0 260.9
158 99.7 48.7 146.1



#78
n-propylbenzene
Concen: 4.181 ug/l
RT: 12.67 min Scan# 1793
Delta R.T. -0.01 min
Lab File: VY003486.D
Acq: 03 Nov 2020 12:54

Tgt Ion: 91 Resp: 48601
Ion Ratio Lower Upper
91 100
120 24.2 11.7 35.1





#79

2-Chlorotoluene

Concen: 4.229 ug/l

RT: 12.76 min Scan# 1808

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

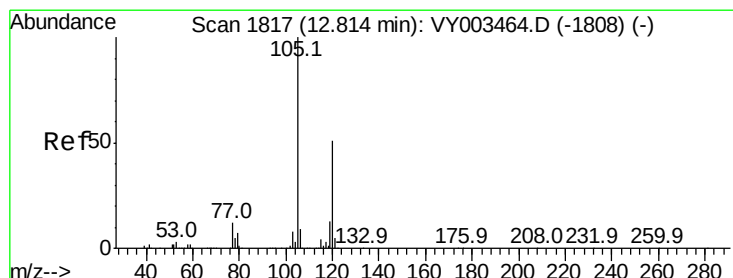
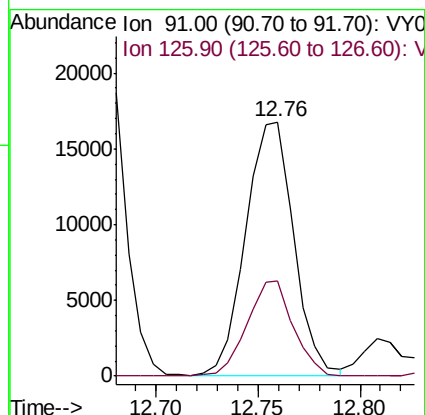
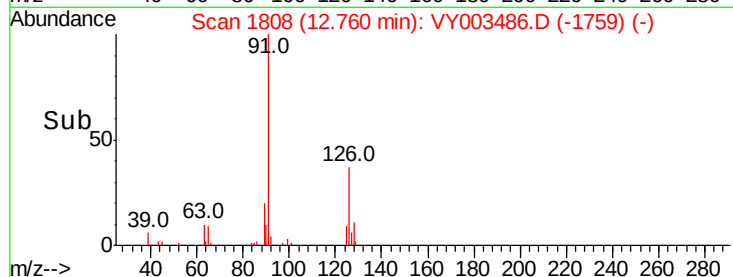
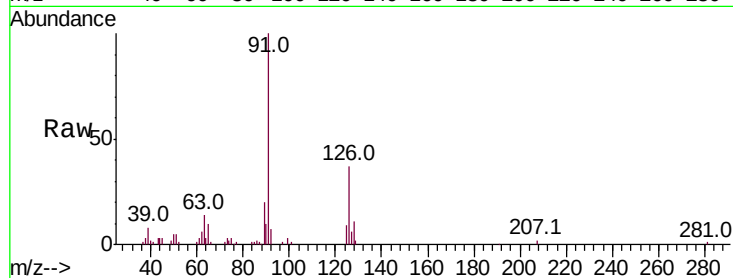
MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 27465

Ion Ratio Lower Upper

91 100

126 36.0 17.8 53.3



#80

1,3,5-Trimethylbenzene

Concen: 4.174 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VY003486.D

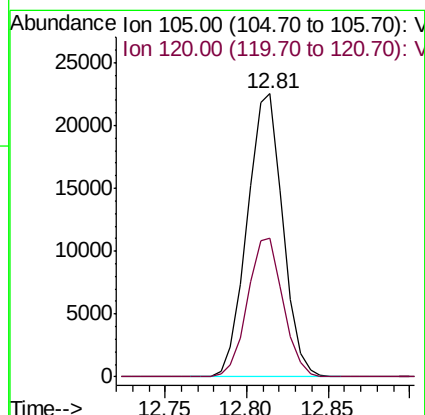
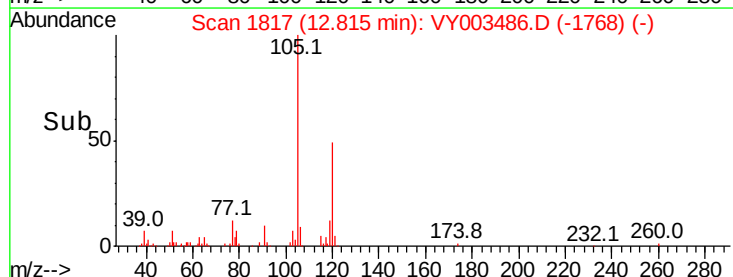
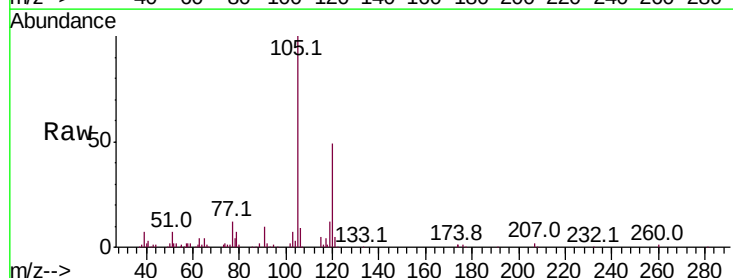
Acq: 03 Nov 2020 12:54

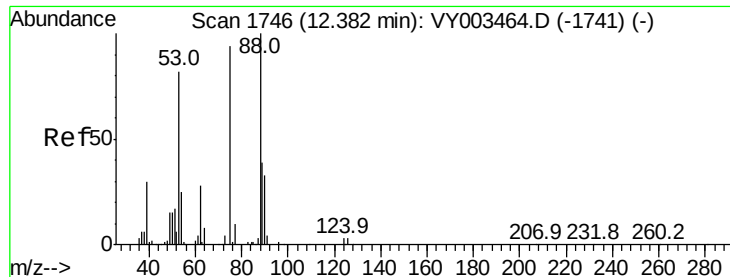
Tgt Ion: 105 Resp: 34126

Ion Ratio Lower Upper

105 100

120 48.9 25.3 75.9





#81

trans-1,4-Dichloro-2-butene

Concen: 3.970 ug/l

RT: 12.38 min Scan# 1746

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

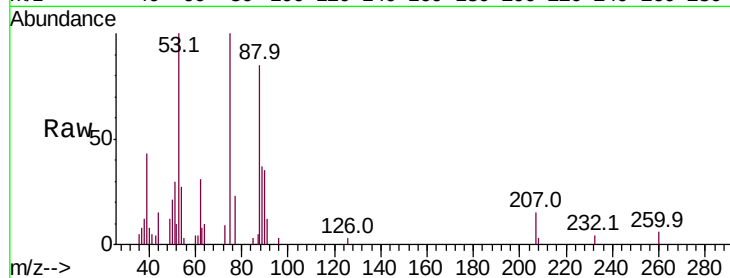
Tot Ion: 75 Resp: 3040

Ion Ratio Lower Upper

75 100

53 99.7 74.7 112.1

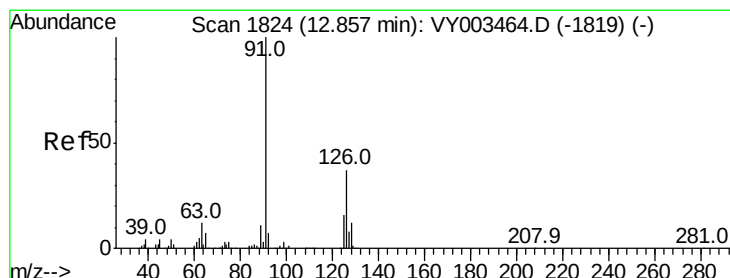
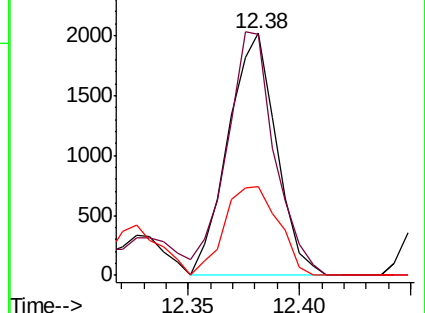
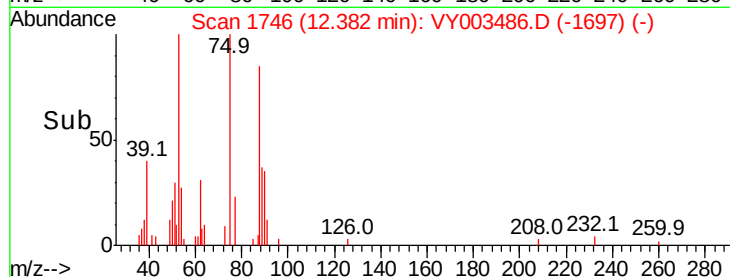
89 41.1 35.8 53.8



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0



#82

4-Chlorotoluene

Concen: 4.318 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. -0.01 min

Lab File: VY003486.D

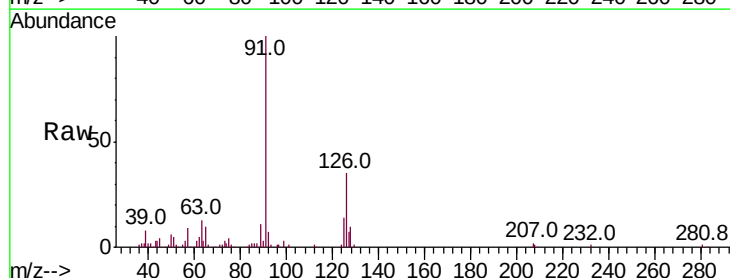
Acq: 03 Nov 2020 12:54

Tgt Ion: 91 Resp: 29304

Ion Ratio Lower Upper

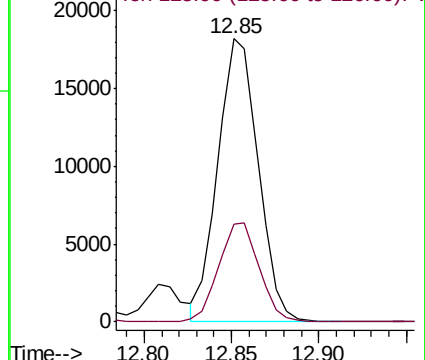
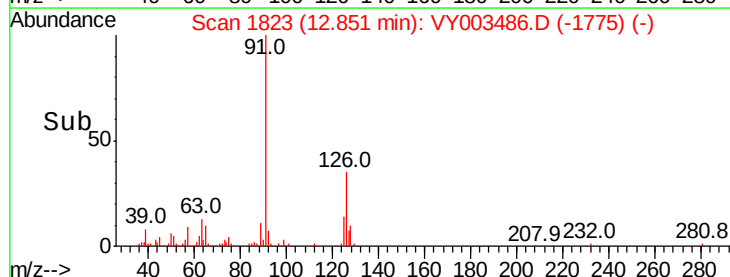
91 100

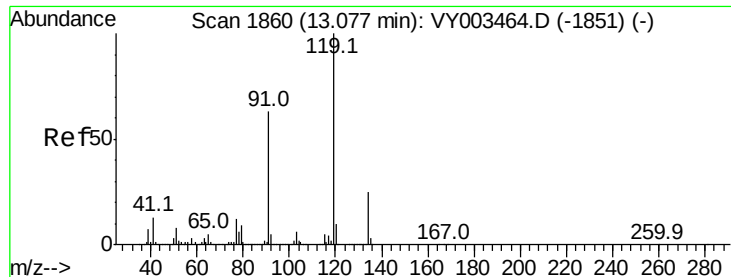
126 35.0 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 4.167 ug/l

RT: 13.08 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument:

MSVOA_Y

ClientSampleId:

MDL-SOIL-03-QT4-2020

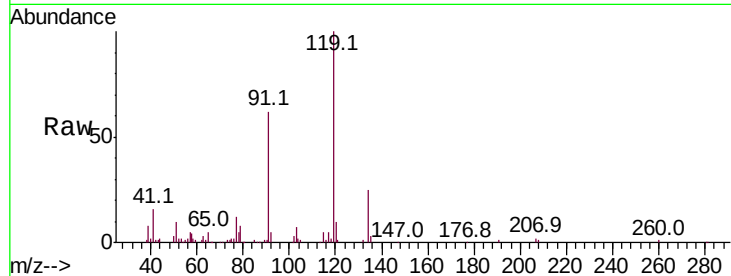
Tot Ion:119 Resp: 30216

Ion Ratio Lower Upper

119 100

91 60.7 31.1 93.2

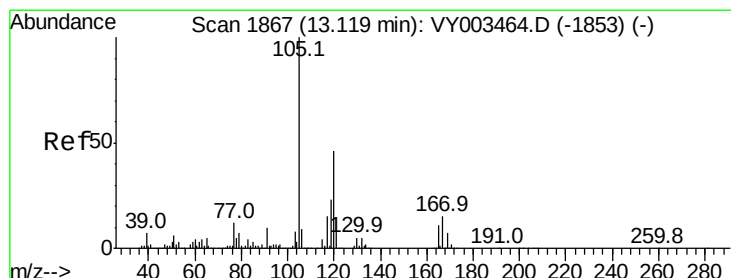
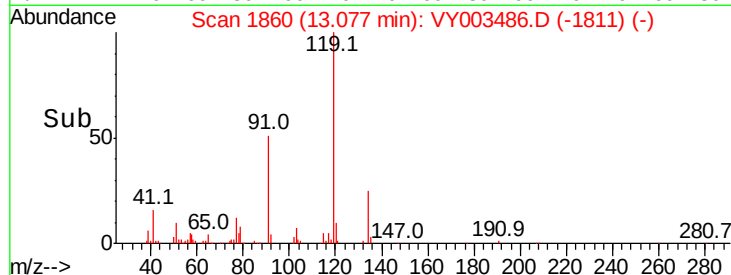
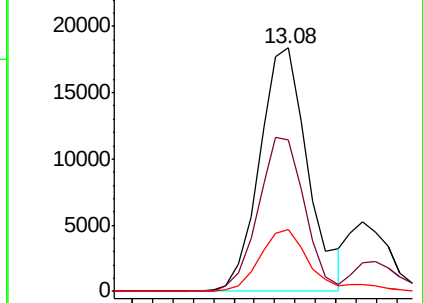
134 27.2 13.4 40.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VY0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 4.092 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY003486.D

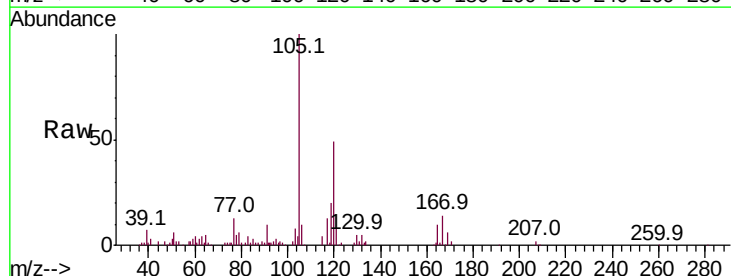
Acq: 03 Nov 2020 12:54

Tgt Ion:105 Resp: 33440

Ion Ratio Lower Upper

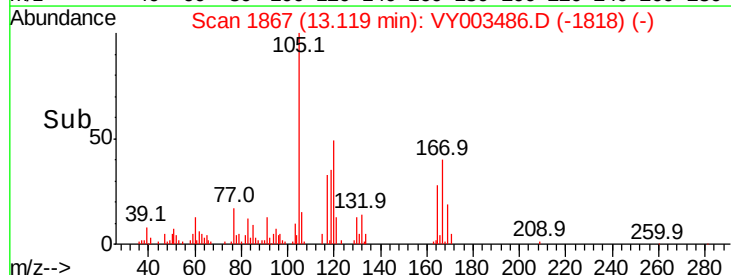
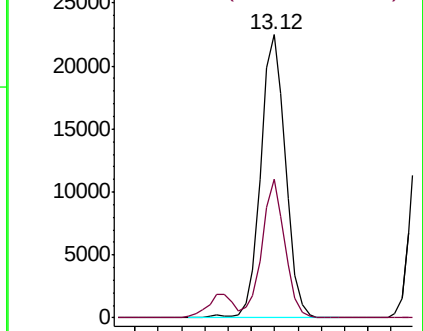
105 100

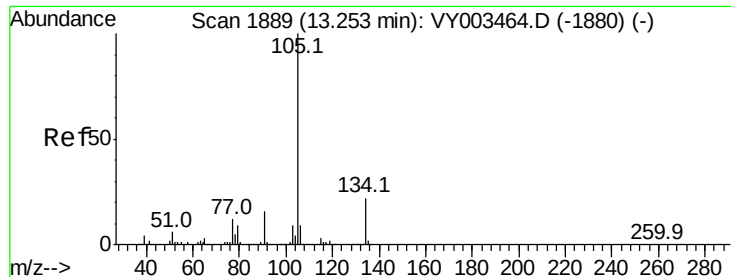
120 45.2 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 4.151 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

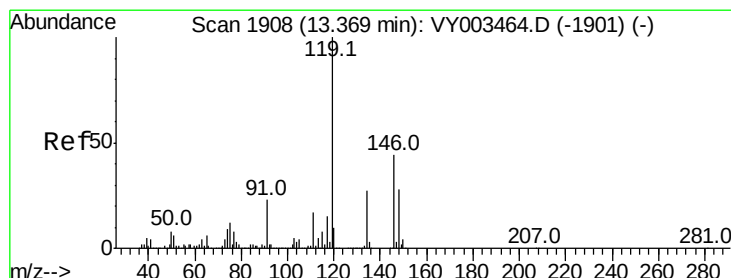
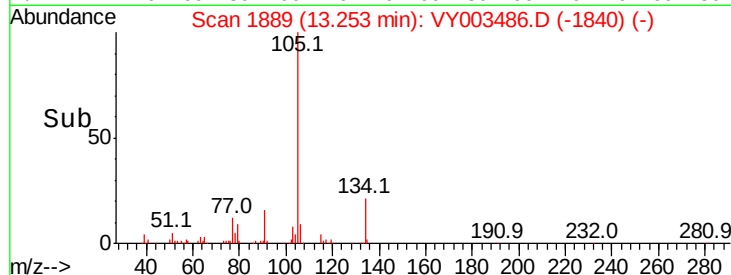
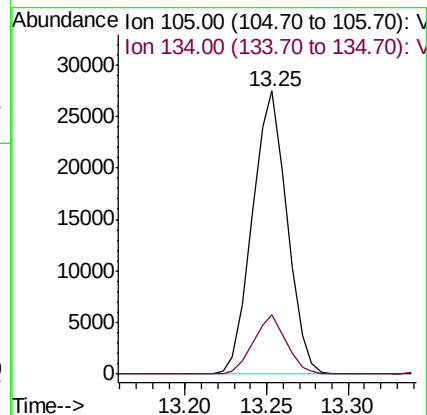
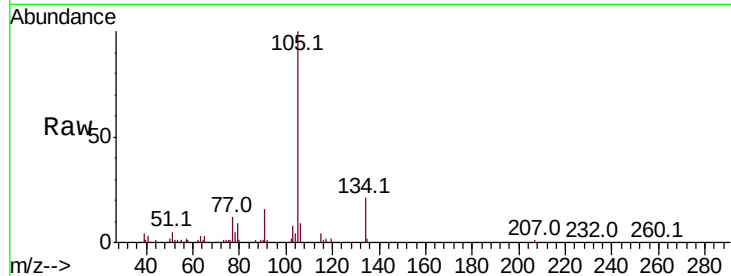
MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 40761

Ion Ratio Lower Upper

105 100

134 20.0 10.6 31.8



#86

p-Isopropyltoluene

Concen: 3.960 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

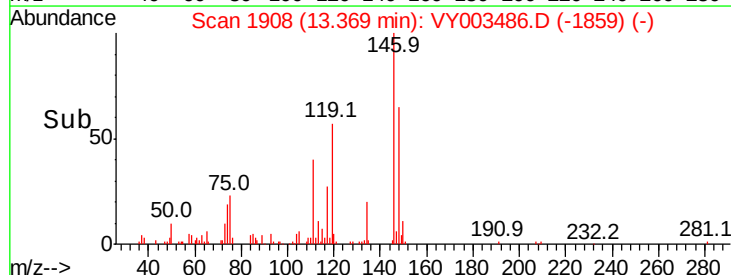
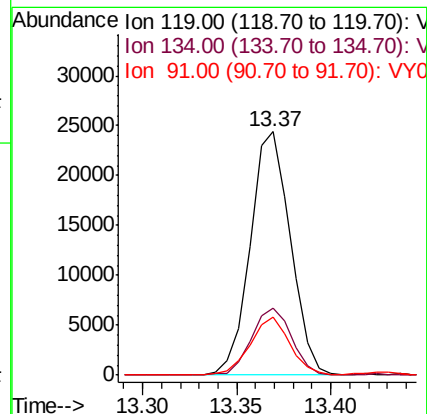
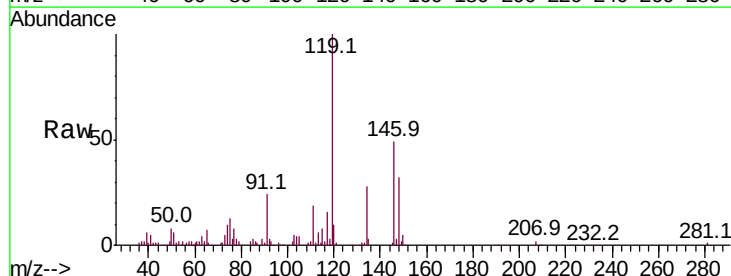
Tgt Ion:119 Resp: 36060

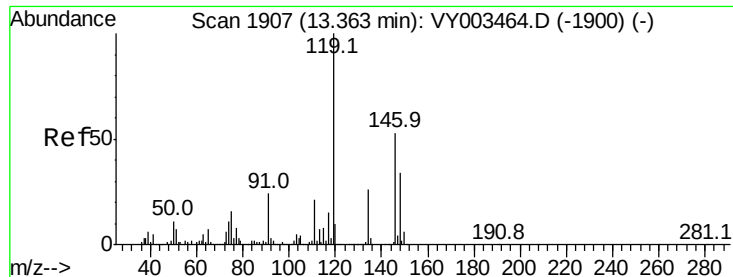
Ion Ratio Lower Upper

119 100

134 27.6 13.6 40.7

91 23.3 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 4.298 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. 0.00 min

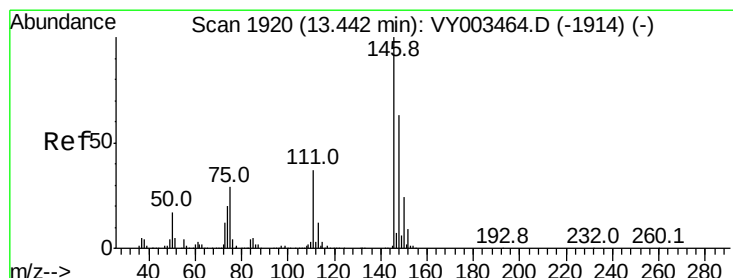
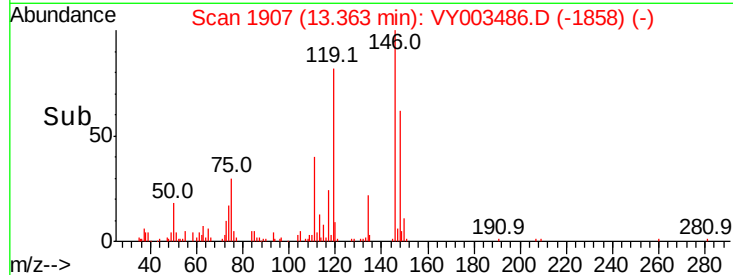
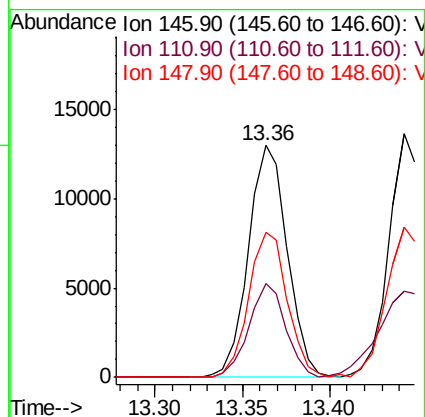
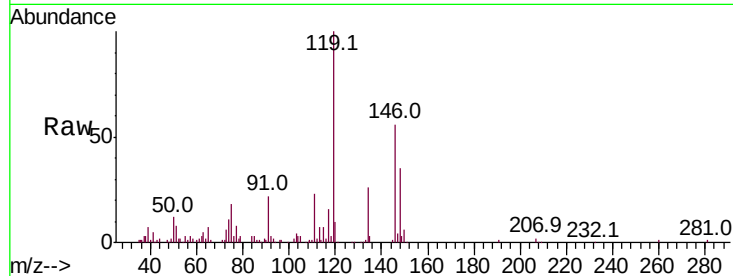
Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

Tot Ion:146 Resp: 20076

Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.1	57.1
148	61.9	32.4	97.0



#88

1,4-Dichlorobenzene

Concen: 4.354 ug/l

RT: 13.44 min Scan# 1920

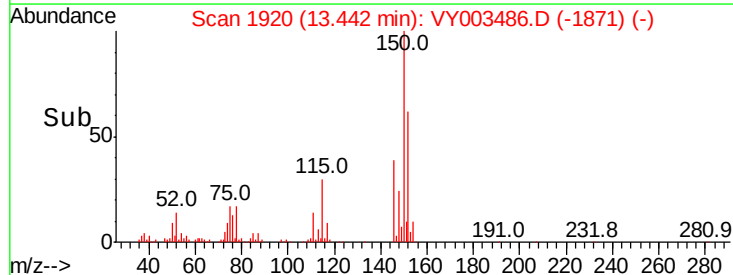
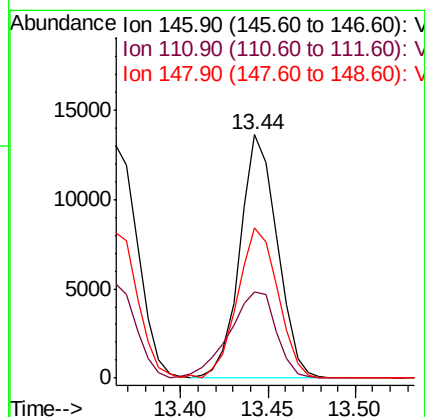
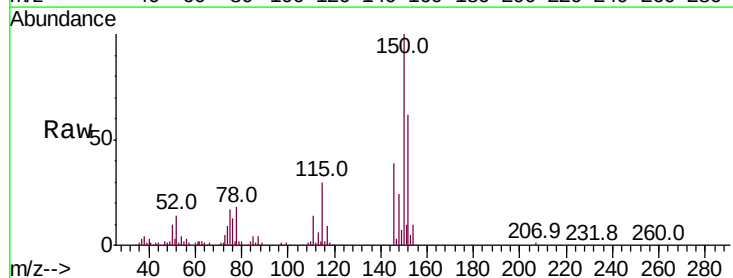
Delta R.T. 0.00 min

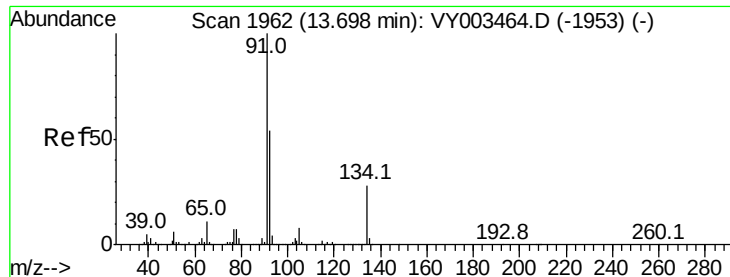
Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Tgt Ion:146 Resp: 20222

Ion	Ratio	Lower	Upper
146	100		
111	44.6	18.3	54.8
148	67.1	32.0	96.0





#89

n-Butylbenzene

Concen: 4.061 ug/l

RT: 13.69 min Scan# 1961

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

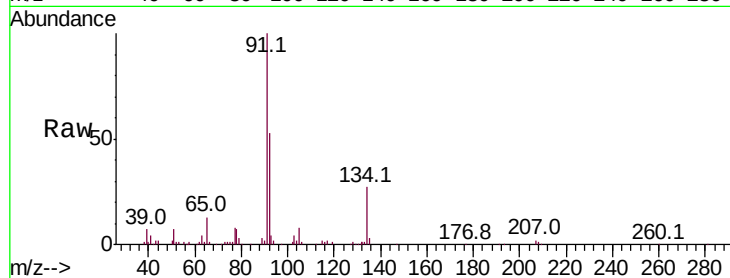
Tot Ion: 91 Resp: 33774

Ion Ratio Lower Upper

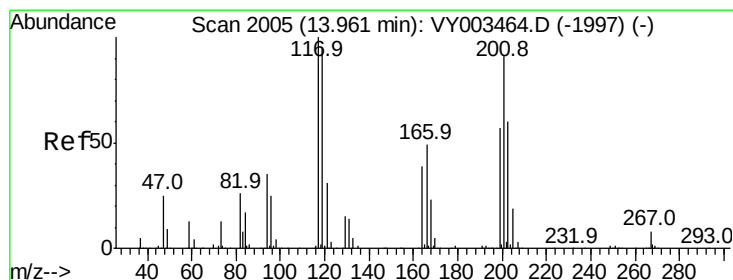
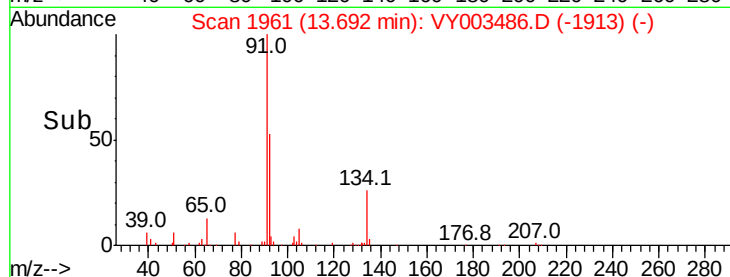
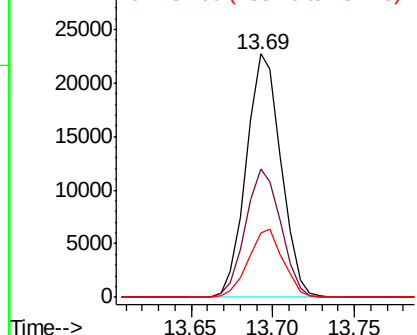
91 100

92 53.7 26.7 80.1

134 28.0 13.8 41.3



Abundance Ion 91.00 (90.70 to 91.70): VY0
Ion 92.00 (91.70 to 92.70): VY0
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 4.086 ug/l

RT: 13.95 min Scan# 2004

Delta R.T. -0.01 min

Lab File: VY003486.D

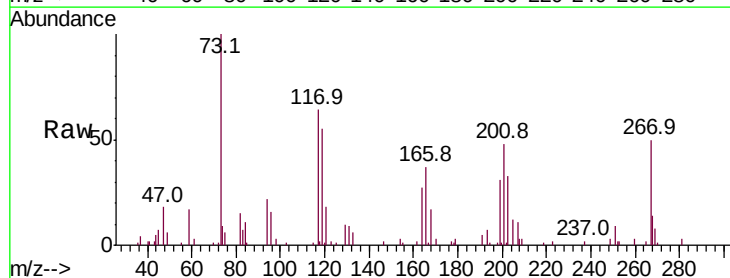
Acq: 03 Nov 2020 12:54

Tgt Ion: 117 Resp: 6261

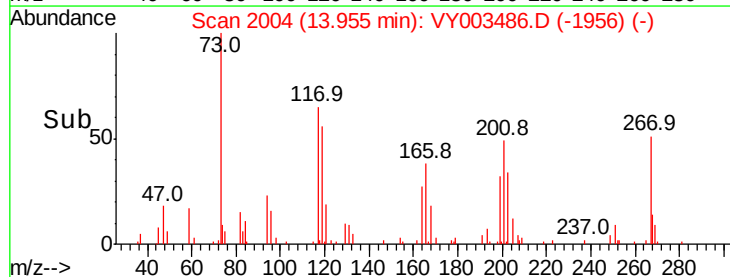
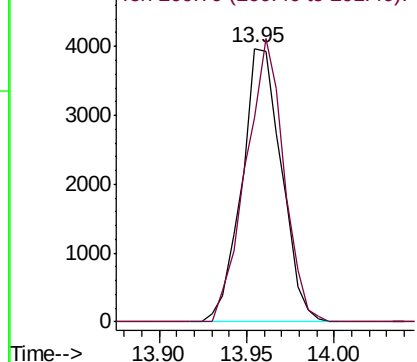
Ion Ratio Lower Upper

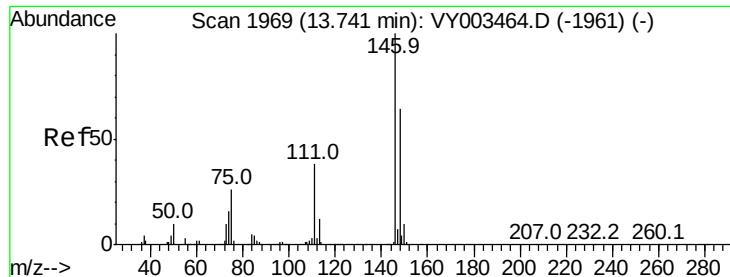
117 100

201 99.2 46.6 139.8



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 4.249 ug/l

RT: 13.74 min Scan# 1968

Delta R.T. -0.01 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

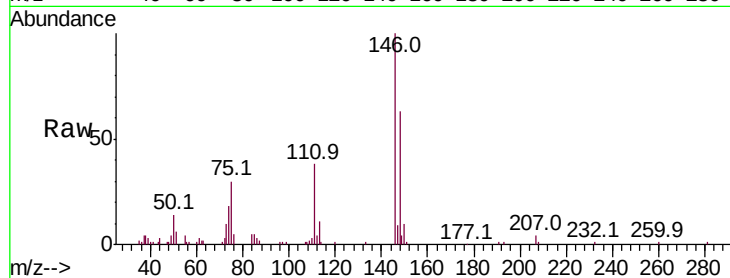
Tot Ion:146 Resp: 17631

Ion Ratio Lower Upper

146 100

111 39.1 19.3 57.8

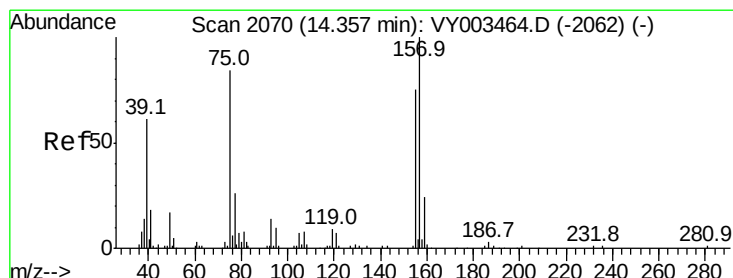
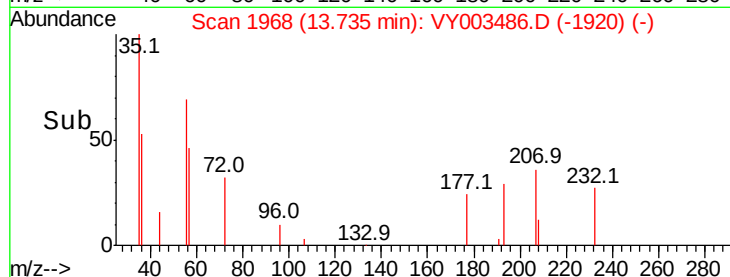
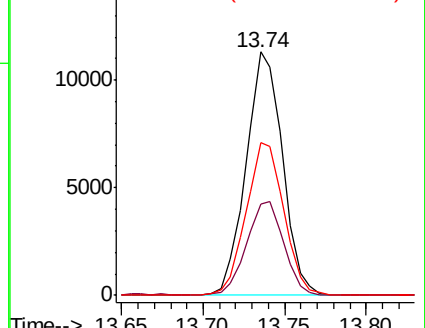
148 64.9 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.301 ug/l

RT: 14.36 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

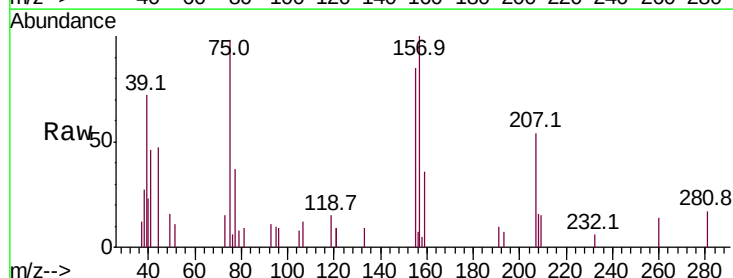
Tgt Ion: 75 Resp: 1641

Ion Ratio Lower Upper

75 100

155 84.4 45.6 136.7

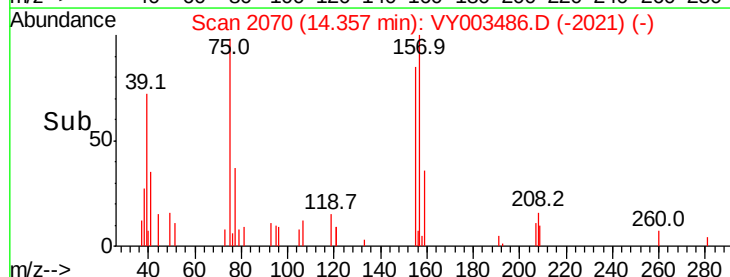
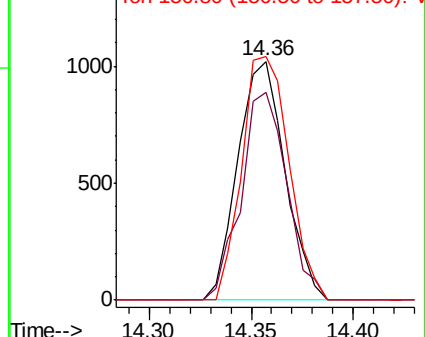
157 102.0 60.3 180.8

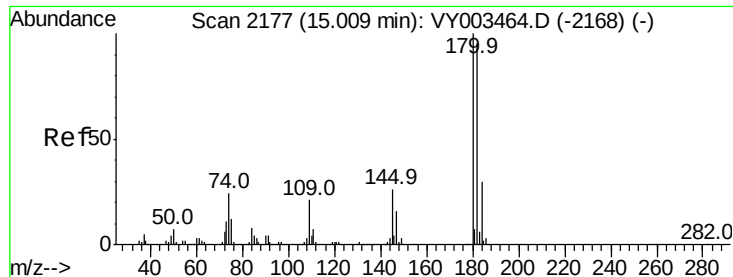


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

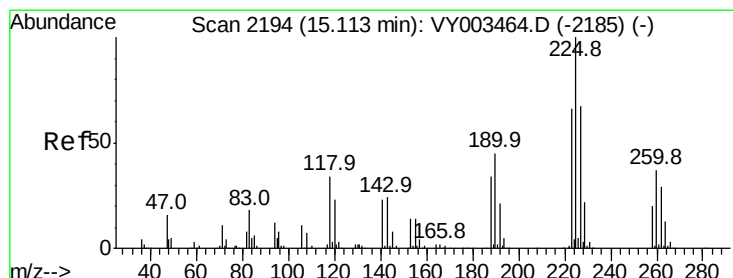
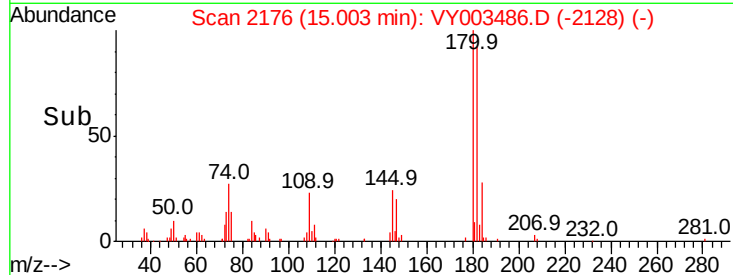
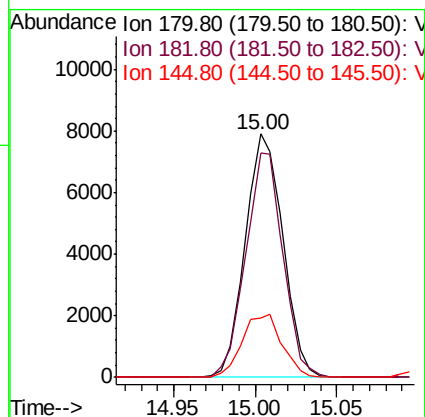
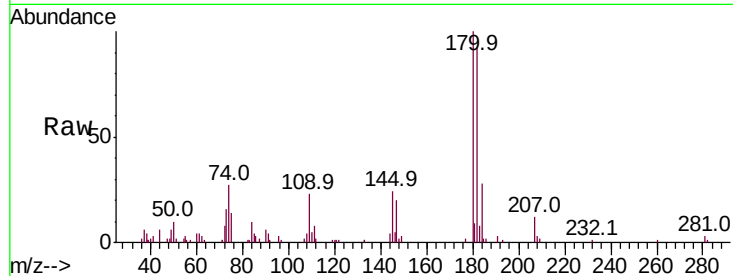




#93
 1,2,4-Trichlorobenzene
 Concen: 4.333 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

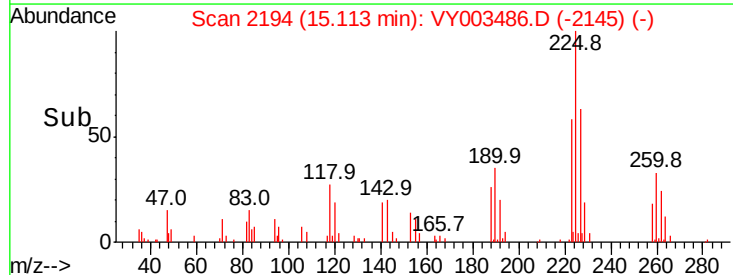
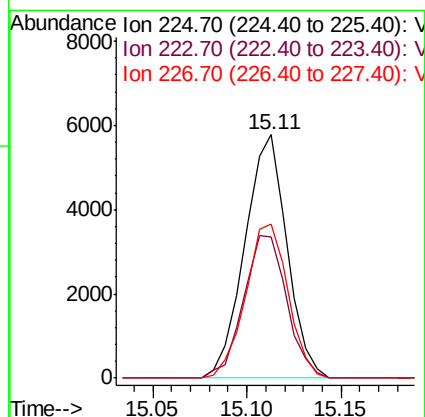
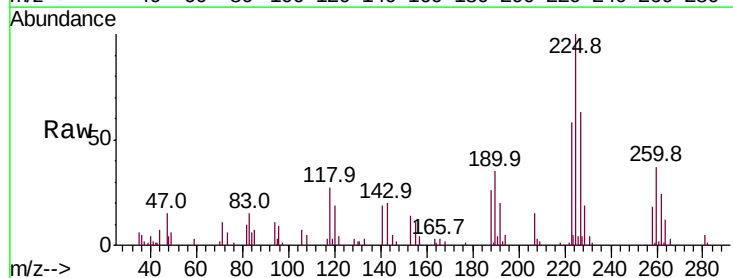
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

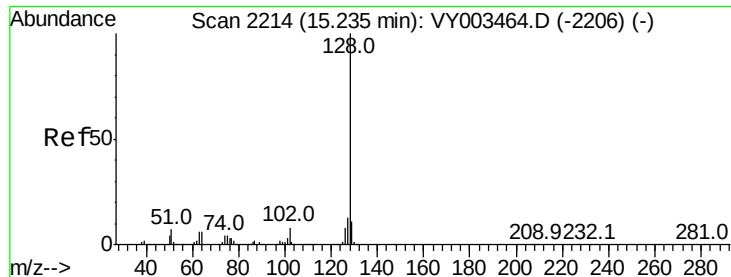
Tot Ion	Ratio	Lower	Upper
180	100		
182	91.3	48.1	144.3
145	27.3	13.8	41.3



#94
 Hexachlorobutadiene
 Concen: 4.733 ug/l
 RT: 15.11 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VY003486.D
 Acq: 03 Nov 2020 12:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.2	32.1	96.3
227	64.1	32.4	97.2





#95

Naphthalene

Concen: 3.795 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

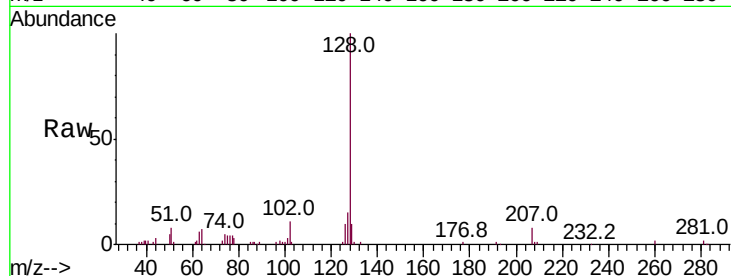
Tot Ion:128 Resp: 22302

Ion Ratio Lower Upper

128 100

127 14.0 10.5 15.7

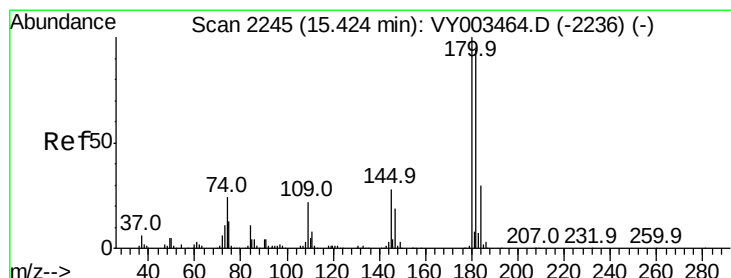
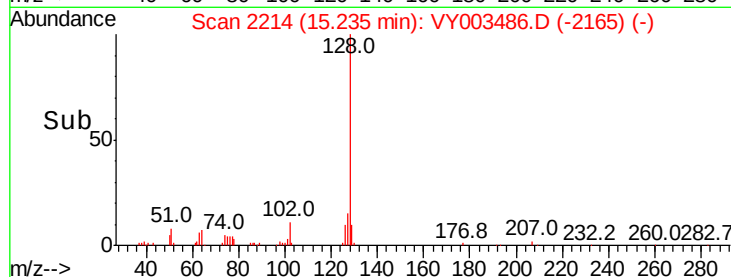
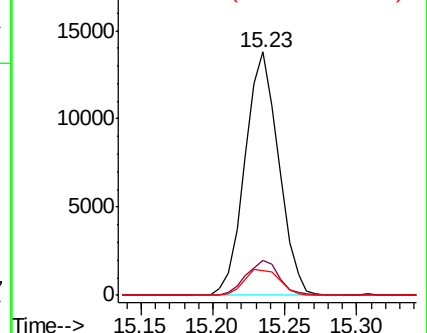
129 11.3 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 4.242 ug/l

RT: 15.42 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VY003486.D

Acq: 03 Nov 2020 12:54

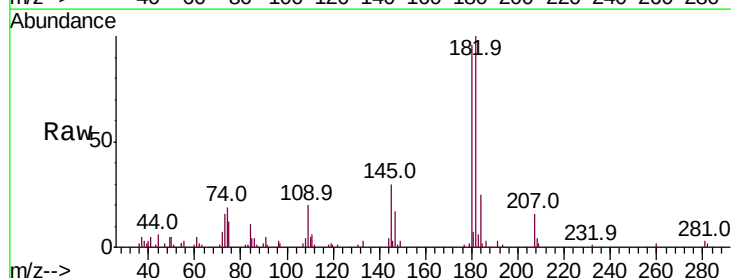
Tgt Ion:180 Resp: 11198

Ion Ratio Lower Upper

180 100

182 98.0 46.9 140.7

145 30.1 14.4 43.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

