

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY110320\
 Data File : VY003485.D
 Acq On : 03 Nov 2020 12:32
 Operator : SY/MD
 Sample : L4214-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Nov 04 01:19:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y110220S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 02 12:40:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	259136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	377078	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	338369	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	168780	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	136675	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
35) Dibromofluoromethane	7.73	113	119131	51.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.84%	
50) Toluene-d8	10.18	98	479025	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.48	95	154233	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.91	85	5667	2.764	ug/l	93
3) Chloromethane	2.12	50	7330	2.716	ug/l	99
4) Vinyl Chloride	2.26	62	7829	2.584	ug/l	100
5) Bromomethane	2.66	94	6877	2.717	ug/l	96
6) Chloroethane	2.80	64	4984	2.760	ug/l	92
7) Trichlorofluoromethane	3.14	101	11772	3.061	ug/l	93
8) Diethyl Ether	3.54	74	3581	3.036	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.92	101	6164	2.900	ug/l	97
10) Methyl Iodide	4.11	142	5748	3.277	ug/l	98
11) Tert butyl alcohol	4.96	59	7330	24.438	ug/l #	88
12) 1,1-Dichloroethene	3.89	96	6149	2.908	ug/l	94
13) Acrolein	3.74	56	3062	13.888	ug/l	94
14) Allyl chloride	4.50	41	10131	2.626	ug/l	98
15) Acrylonitrile	5.18	53	8800	13.979	ug/l	98
16) Acetone	3.96	43	11500	13.122	ug/l	94
17) Carbon Disulfide	4.21	76	18837	2.749	ug/l	97
18) Methyl Acetate	4.50	43	5201	3.140	ug/l	97
19) Methyl tert-butyl Ether	5.24	73	14037	2.680	ug/l	97
20) Methylene Chloride	4.73	84	11600	4.700	ug/l	96
21) trans-1,2-Dichloroethene	5.23	96	6844	2.795	ug/l	85
22) Diisopropyl ether	6.14	45	17236	2.547	ug/l	93
23) Vinyl Acetate	6.08	43	60664	11.929	ug/l	98
24) 1,1-Dichloroethane	6.04	63	11933	2.775	ug/l	96
25) 2-Butanone	7.00	43	14120	12.882	ug/l	99
26) 2,2-Dichloropropane	7.00	77	11367	2.837	ug/l	99
27) cis-1,2-Dichloroethene	7.00	96	7318	2.758	ug/l	97
28) Bromochloromethane	7.35	49	6320	2.921	ug/l #	94
29) Tetrahydrofuran	7.36	42	7614	13.294	ug/l	96
30) Chloroform	7.52	83	11143	2.638	ug/l	95
31) Cyclohexane	7.79	56	14937	3.751	ug/l #	75
32) 1,1,1-Trichloroethane	7.71	97	10333	2.622	ug/l	98
36) 1,1-Dichloropropene	7.92	75	9820	2.762	ug/l	97
37) Ethyl Acetate	7.10	43	6426	2.911	ug/l	98
38) Carbon Tetrachloride	7.91	117	9730	2.638	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	10930	2.761	ug/l	96
40) Benzene	8.17	78	26230	2.651	ug/l	99
41) Methacrylonitrile	7.32	41	2981	2.529	ug/l #	100
42) 1,2-Dichloroethane	8.25	62	8716	2.812	ug/l	99
43) Isopropyl Acetate	8.28	43	10163	2.562	ug/l	96
44) Trichloroethene	8.94	130	7885	2.839	ug/l	99
45) 1,2-Dichloropropane	9.22	63	6477	2.592	ug/l	97
46) Dibromomethane	9.31	93	3646	2.652	ug/l	98
47) Bromodichloromethane	9.50	83	8458	2.514	ug/l	98
48) Methyl methacrylate	9.30	41	4441	2.376	ug/l	96
49) 1,4-Dioxane	9.31	88	885	51.598	ug/l #	90
51) 4-Methyl-2-Pentanone	10.07	43	28699	13.576	ug/l	99
52) Toluene	10.25	92	16550	2.674	ug/l	99
53) t-1,3-Dichloropropene	10.47	75	9375	2.618	ug/l	99
54) cis-1,3-Dichloropropene	9.93	75	10126	2.513	ug/l	99
55) 1,1,2-Trichloroethane	10.64	97	5414	2.775	ug/l	92
56) Ethyl methacrylate	10.52	69	5825	2.229	ug/l	92
57) 1,3-Dichloropropane	10.79	76	9003	2.653	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.78	63	16489	12.445	ug/l	99
59) 2-Hexanone	10.83	43	17911	11.444	ug/l	99
60) Dibromochloromethane	10.99	129	6161	2.569	ug/l	100
61) 1,2-Dibromoethane	11.09	107	4845	2.572	ug/l	96
64) Tetrachloroethene	10.72	164	7158	2.833	ug/l	94
65) Chlorobenzene	11.52	112	17621	2.681	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.59	131	6336	2.556	ug/l	94
67) Ethyl Benzene	11.59	91	30582	2.566	ug/l	100
68) m/p-Xylenes	11.70	106	22947	5.080	ug/l	99
69) o-Xylene	12.03	106	10633	2.559	ug/l	99
70) Styrene	12.05	104	17069	2.419	ug/l	99
71) Bromoform	12.21	173	3888	2.353	ug/l #	90
73) Isopropylbenzene	12.33	105	28306	2.567	ug/l	100
74) N-amyl acetate	12.14	43	7919	2.536	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.58	83	6511	2.765	ug/l	100
76) 1,2,3-Trichloropropane	12.63	75	8553	4.789	ug/l #	100
77) Bromobenzene	12.61	156	7510	2.681	ug/l	93
78) n-propylbenzene	12.67	91	36324	2.797	ug/l	98
79) 2-Chlorotoluene	12.75	91	19645	2.708	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	23704	2.595	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.48	75	82688	96.642	ug/l #	12
82) 4-Chlorotoluene	12.85	91	21003	2.770	ug/l	98
83) tert-Butylbenzene	13.08	119	21159	2.612	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	23872	2.615	ug/l	100
85) sec-Butylbenzene	13.25	105	28584	2.606	ug/l	97
86) p-Isopropyltoluene	13.37	119	26601	2.615	ug/l	99
87) 1,3-Dichlorobenzene	13.36	146	14617	2.801	ug/l	99
88) 1,4-Dichlorobenzene	13.44	146	15266	2.942	ug/l	90
89) n-Butylbenzene	13.69	91	24936	2.683	ug/l	97
90) Hexachloroethane	13.96	117	4557	2.661	ug/l	99
91) 1,2-Dichlorobenzene	13.74	146	12761	2.753	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.35	75	1300	3.049	ug/l	87

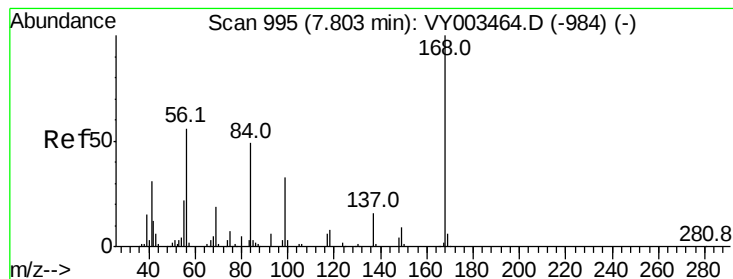
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Quant Title : SW846 8260
QLast Update : Mon Nov 02 12:40:51 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.00	180	9750	2.973	ug/l	99
94) Hexachlorobutadiene	15.11	225	6027	2.857	ug/l	99
95) Naphthalene	15.23	128	18316	2.789	ug/l	99
96) 1,2,3-Trichlorobenzene	15.42	180	8805	2.985	ug/l	98

(#) = 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: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

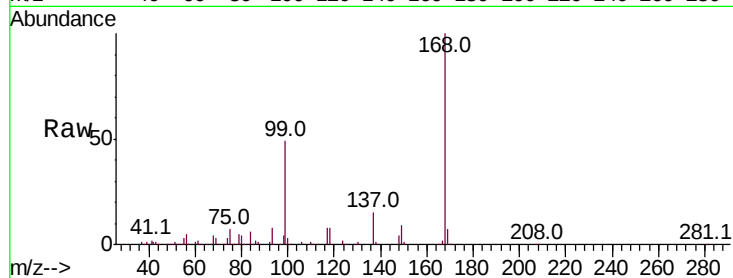
MDL-SOIL-03-QT4-2020

Tot Ion:168 Resp: 259136

Ion Ratio Lower Upper

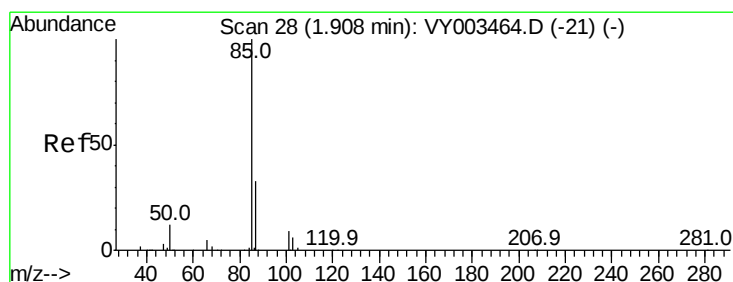
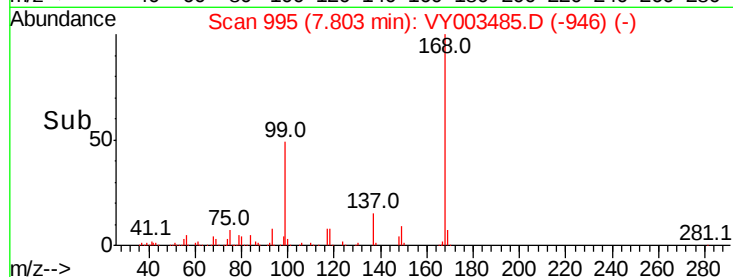
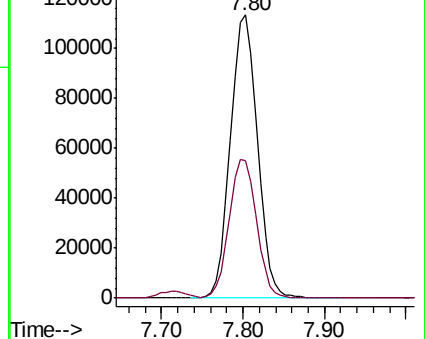
168 100

99 48.5 39.7 59.5



Abundance Ion 167.90 (167.60 to 168.60): VY003464.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY003464.D (-984) (-)



#2

Dichlorodifluoromethane

Concen: 2.764 ug/l

RT: 1.91 min Scan# 28

Delta R.T. -0.00 min

Lab File: VY003485.D

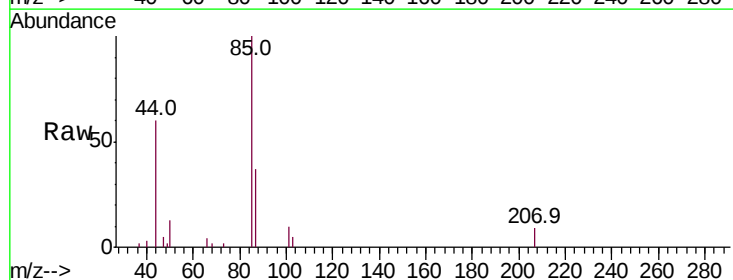
Acq: 03 Nov 2020 12:32

Tgt Ion: 85 Resp: 5667

Ion Ratio Lower Upper

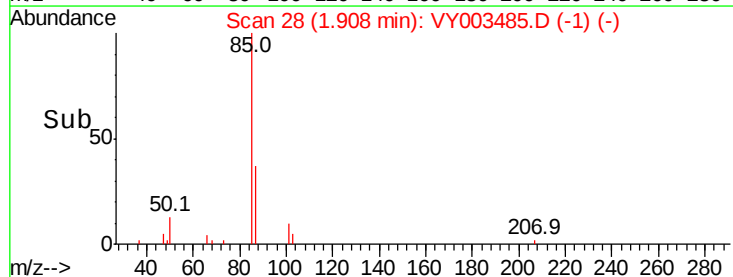
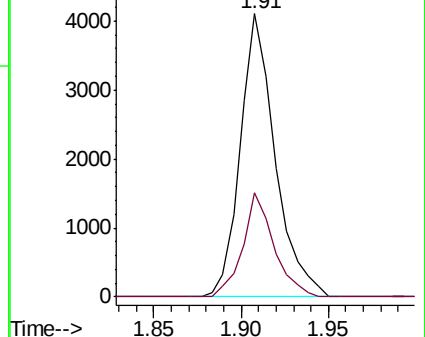
85 100

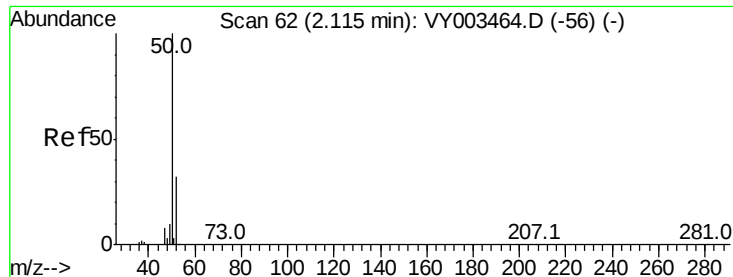
87 36.6 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VY003464.D (-21) (-)

Ion 86.90 (86.60 to 87.60): VY003464.D (-21) (-)





#3

Chloromethane

Concen: 2.716 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

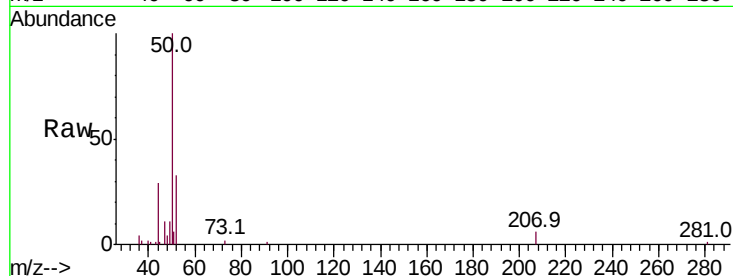
MDL-SOIL-03-QT4-2020

Tot Ion: 50 Resp: 7330

Ion Ratio Lower Upper

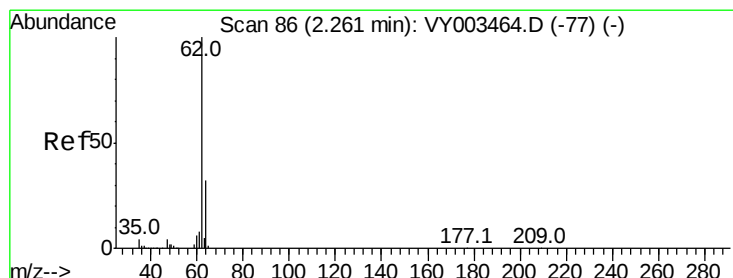
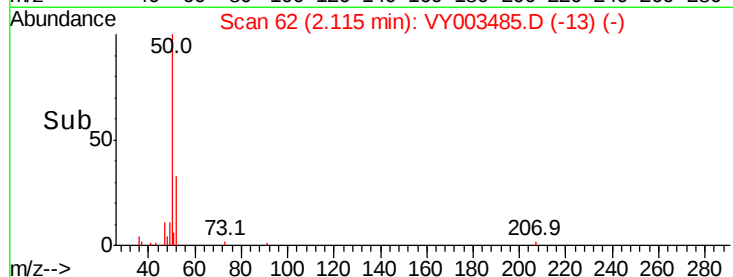
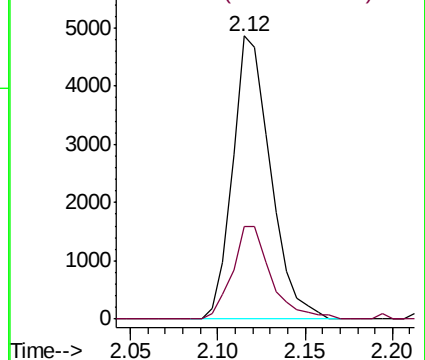
50 100

52 32.8 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#4

Vinyl Chloride

Concen: 2.584 ug/l

RT: 2.26 min Scan# 86

Delta R.T. -0.00 min

Lab File: VY003485.D

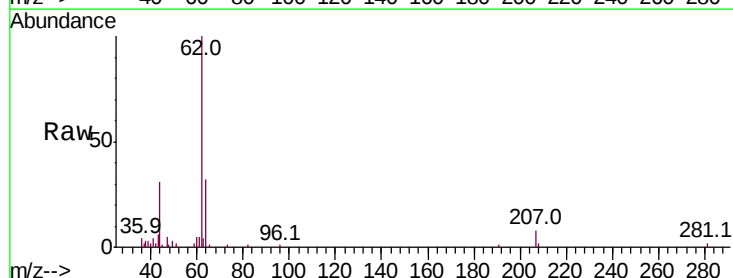
Acq: 03 Nov 2020 12:32

Tgt Ion: 62 Resp: 7829

Ion Ratio Lower Upper

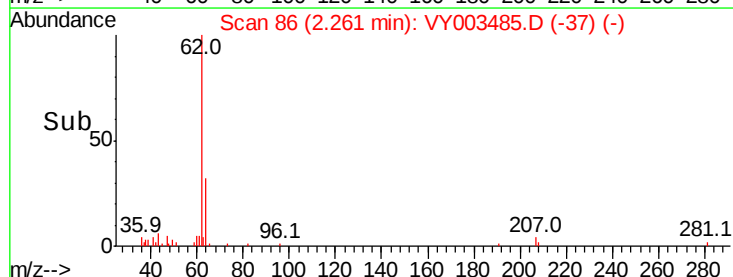
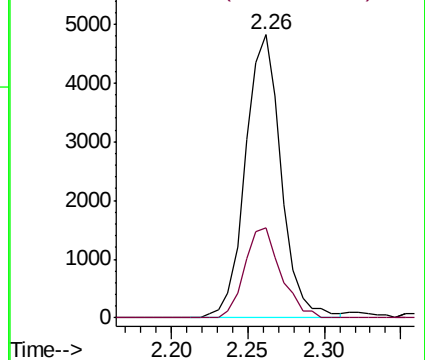
62 100

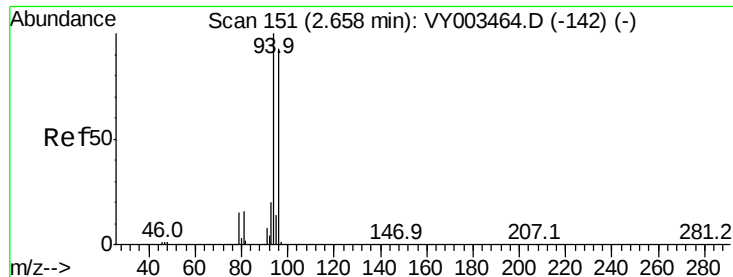
64 31.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VY0

Ion 63.90 (63.60 to 64.60): VY0





#5

Bromomethane

Concen: 2.717 ug/l

RT: 2.66 min Scan# 151

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

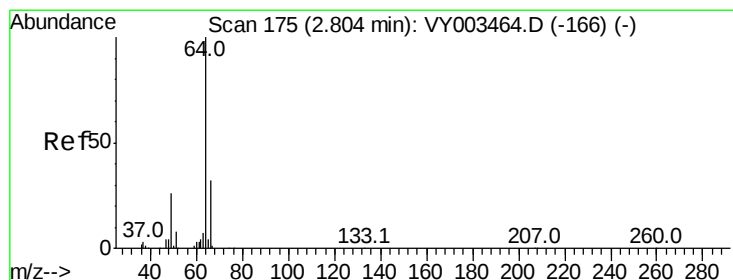
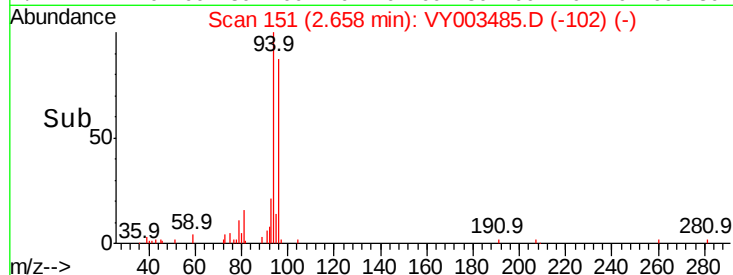
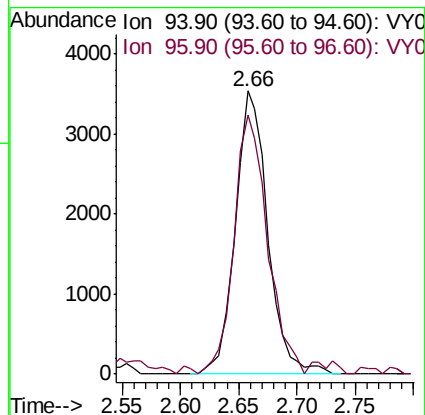
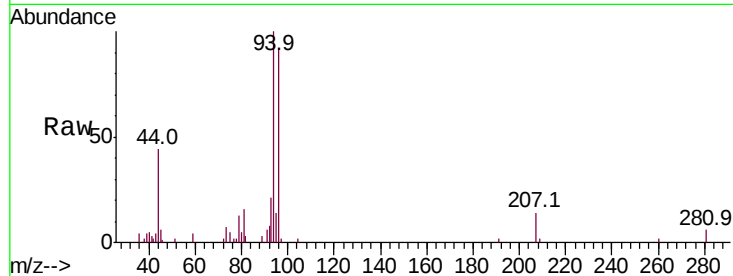
MDL-SOIL-03-QT4-2020

Tot Ion: 94 Resp: 6877

Ion Ratio Lower Upper

94 100

96 89.4 74.6 112.0



#6

Chloroethane

Concen: 2.760 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.00 min

Lab File: VY003485.D

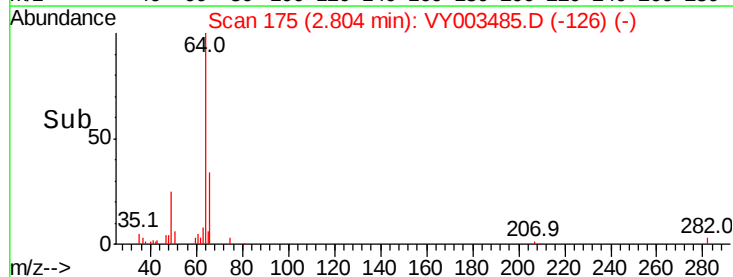
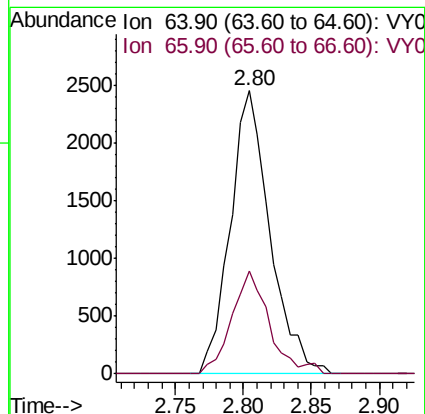
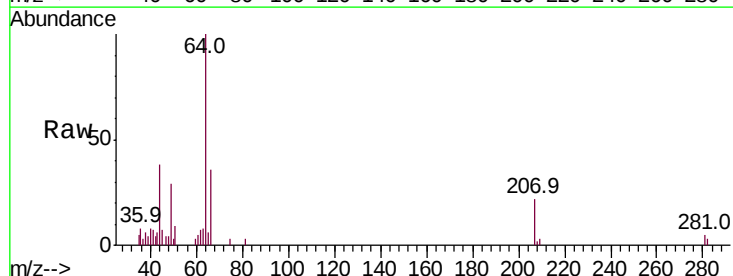
Acq: 03 Nov 2020 12:32

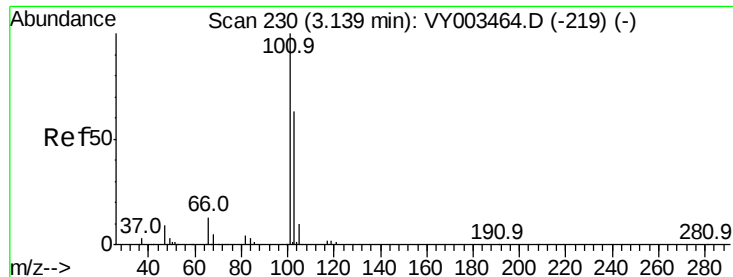
Tgt Ion: 64 Resp: 4984

Ion Ratio Lower Upper

64 100

66 36.2 25.6 38.4





#7

Trichlorofluoromethane

Concen: 3.061 ug/l

RT: 3.14 min Scan# 230

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

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ClientSampleId :

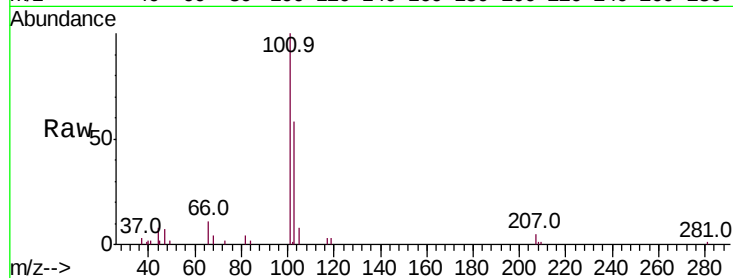
MDL-SOIL-03-QT4-2020

Tot Ion:101 Resp: 11772

Ion Ratio Lower Upper

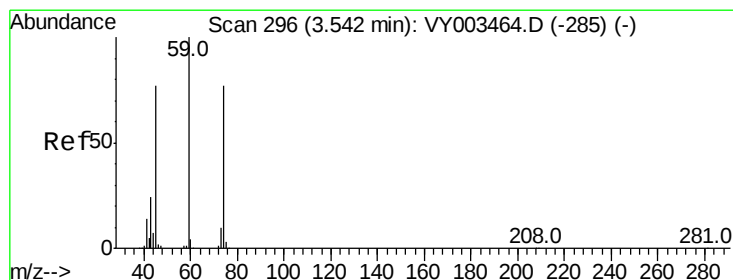
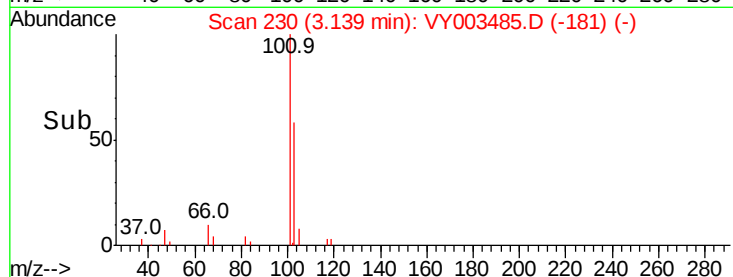
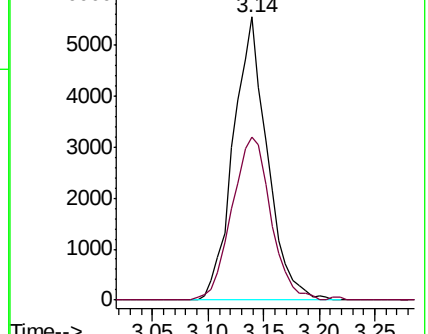
101 100

103 57.7 50.7 76.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 3.036 ug/l

RT: 3.54 min Scan# 296

Delta R.T. -0.00 min

Lab File: VY003485.D

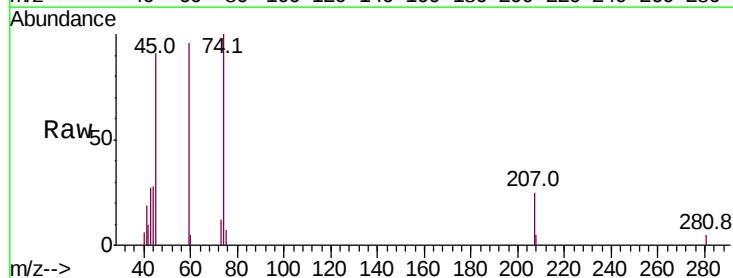
Acq: 03 Nov 2020 12:32

Tgt Ion: 74 Resp: 3581

Ion Ratio Lower Upper

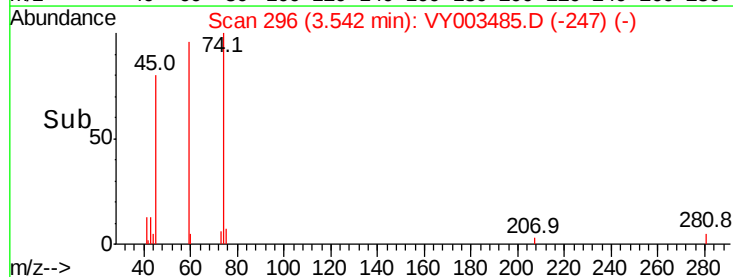
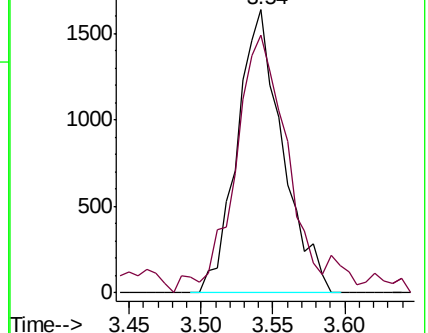
74 100

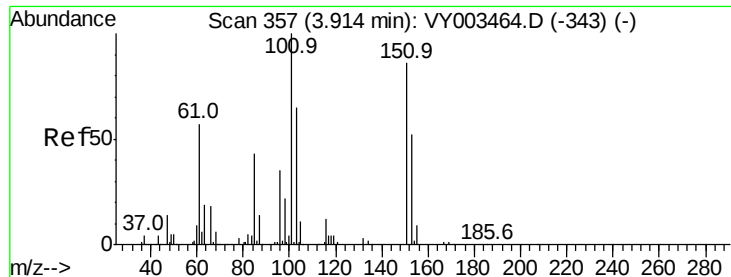
45 102.9 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VY0

Ion 45.00 (44.70 to 45.70): VY0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.900 ug/l

RT: 3.92 min Scan# 358

Delta R.T. 0.01 min

Lab File: VY003485.D

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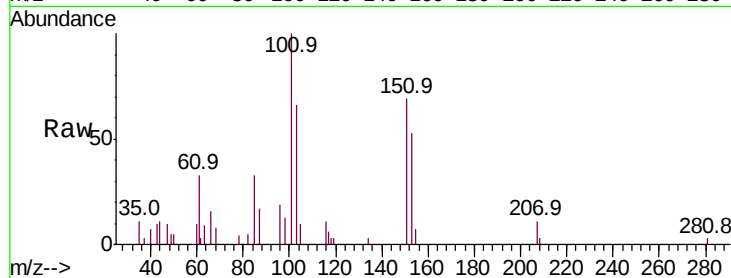
Tot Ion:101 Resp: 6164

Ion Ratio Lower Upper

101 100

85 45.6 35.8 53.8

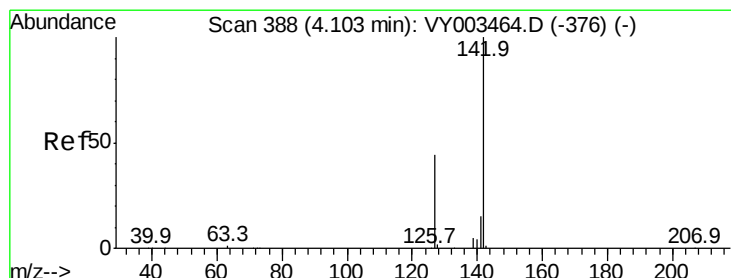
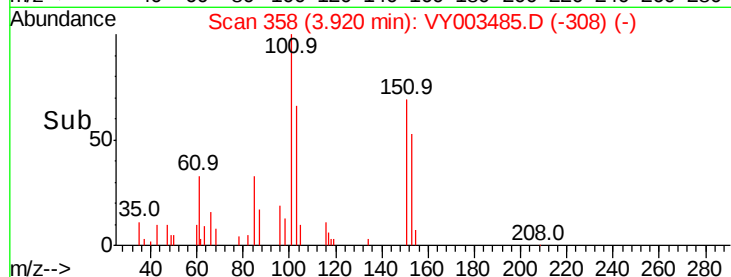
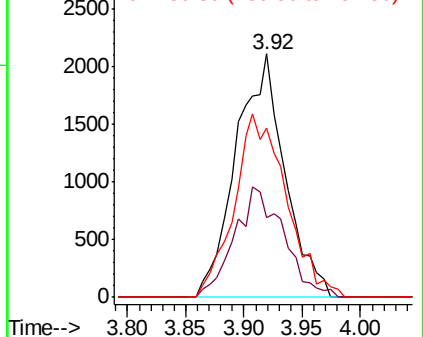
151 80.3 67.6 101.4



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: 3.277 ug/l

RT: 4.11 min Scan# 389

Delta R.T. 0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

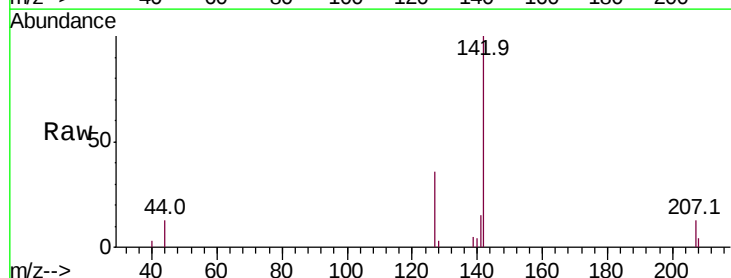
Tgt Ion:142 Resp: 5748

Ion Ratio Lower Upper

142 100

127 41.4 34.5 51.7

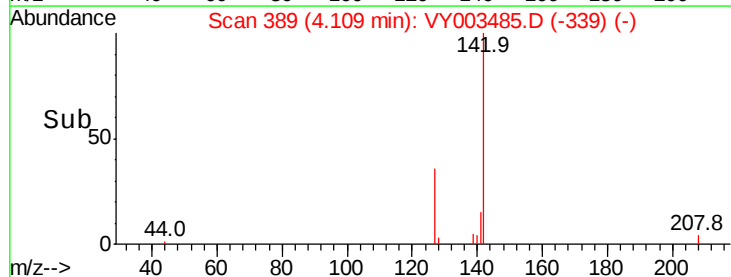
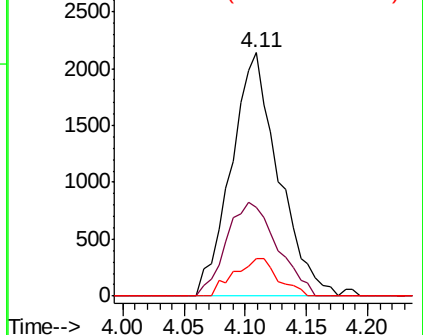
141 14.4 11.8 17.8

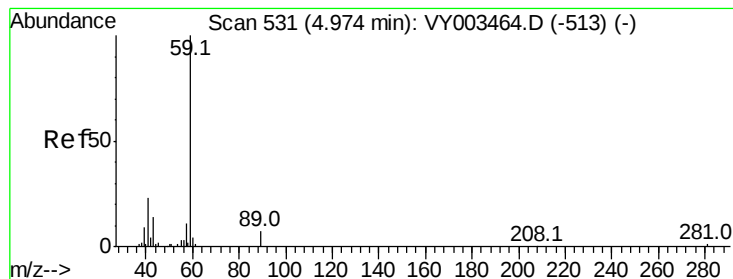


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



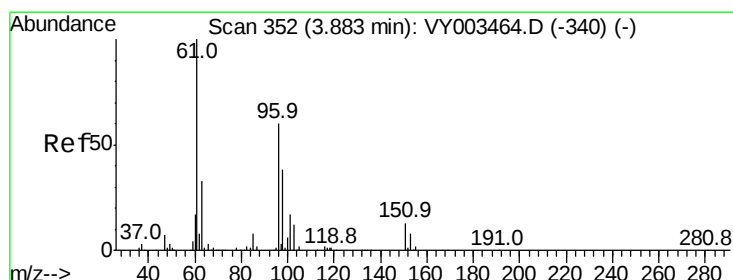
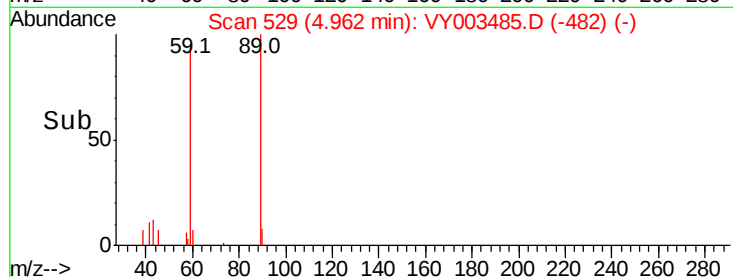
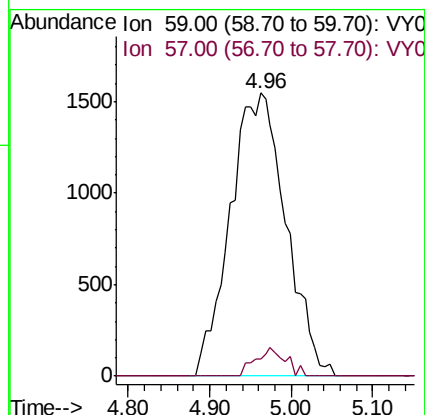
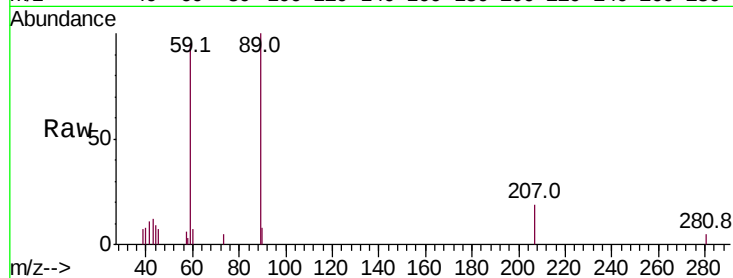


#11

Tert butyl alcohol
 Concen: 24.438 ug/l
 RT: 4.96 min Scan# 529
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

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

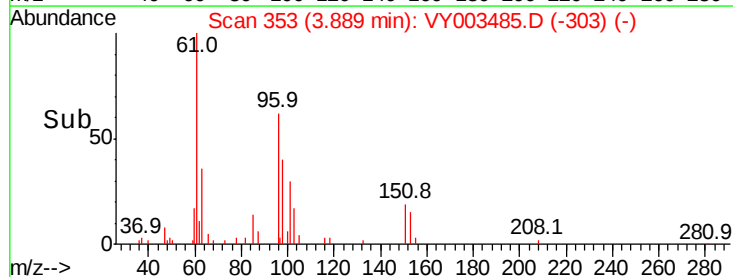
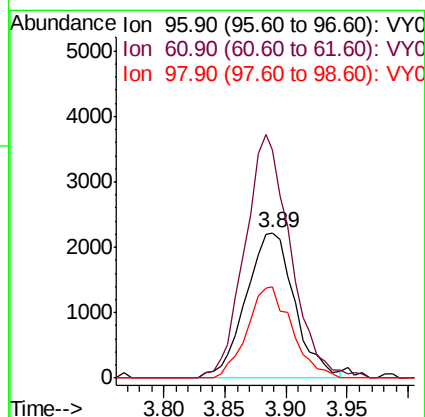
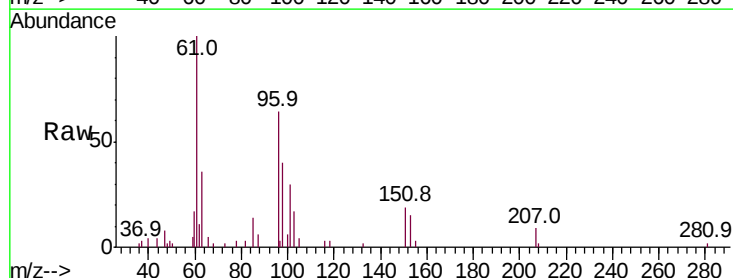
Tot Ion: 59 Resp: 7330
 Ion Ratio Lower Upper
 59 100
 57 5.4 7.9 11.9#

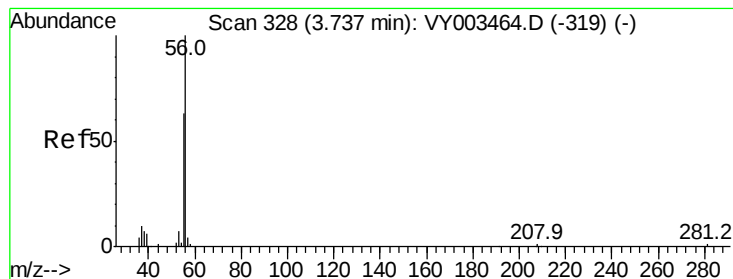


#12

1,1-Dichloroethene
 Concen: 2.908 ug/l
 RT: 3.89 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion: 96 Resp: 6149
 Ion Ratio Lower Upper
 96 100
 61 156.8 133.6 200.4
 98 62.6 50.2 75.2





#13

Acrolein

Concen: 13.888 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

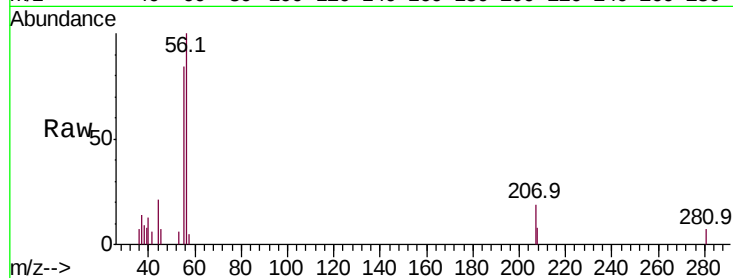
MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 3062

Ion Ratio Lower Upper

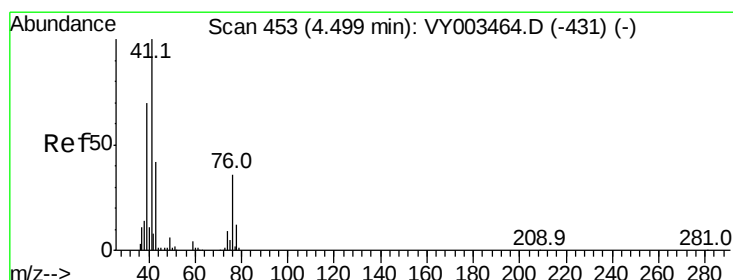
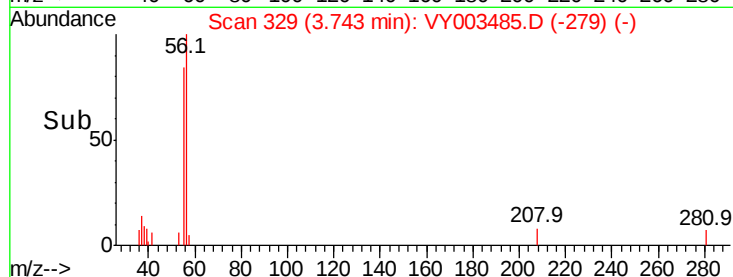
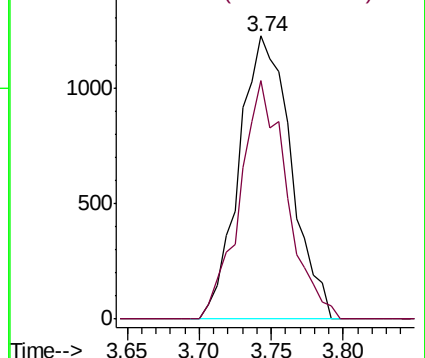
56 100

55 76.1 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: 2.626 ug/l

RT: 4.50 min Scan# 453

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

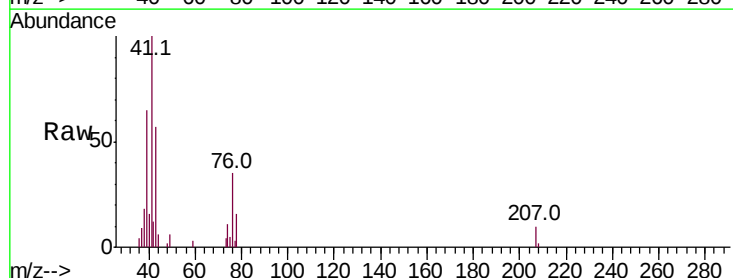
Tgt Ion: 41 Resp: 10131

Ion Ratio Lower Upper

41 100

39 66.8 54.4 81.6

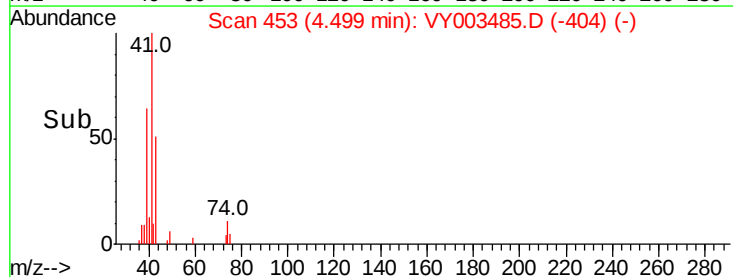
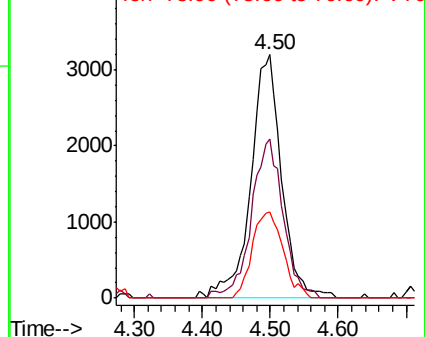
76 35.4 27.6 41.4

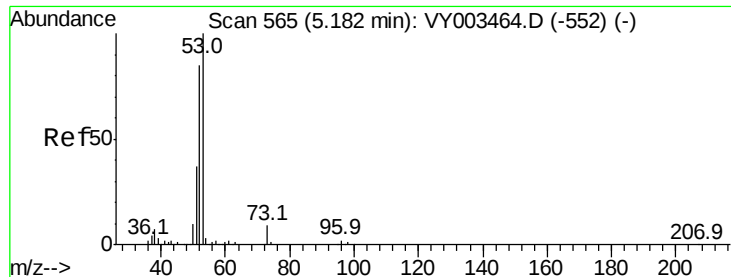


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

Ion 75.90 (75.60 to 76.60): VY0





#15

Acrylonitrile

Concen: 13.979 ug/l

RT: 5.18 min Scan# 565

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

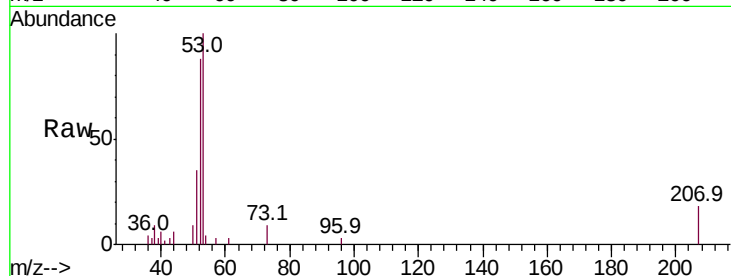
MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

Tot Ion: 53 Resp: 8800

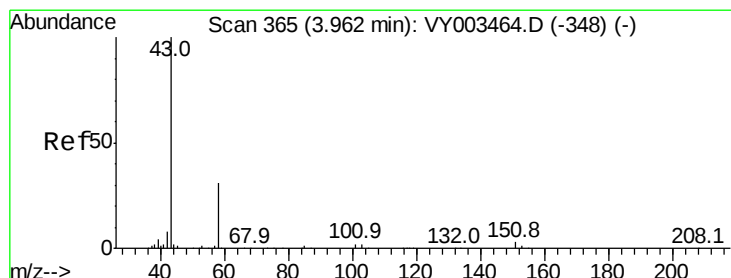
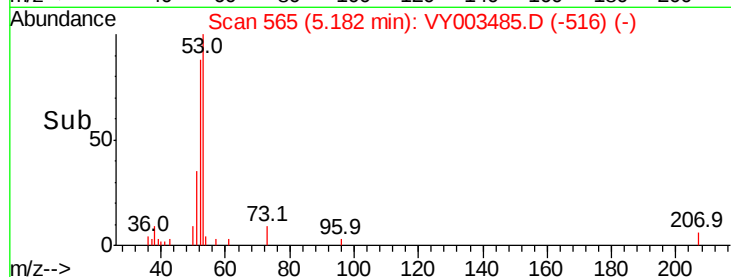
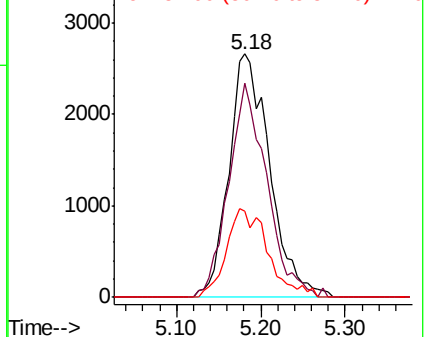
Ion	Ratio	Lower	Upper
53	100		
52	81.8	66.9	100.3
51	36.8	29.3	43.9



Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0



#16

Acetone

Concen: 13.122 ug/l

RT: 3.96 min Scan# 365

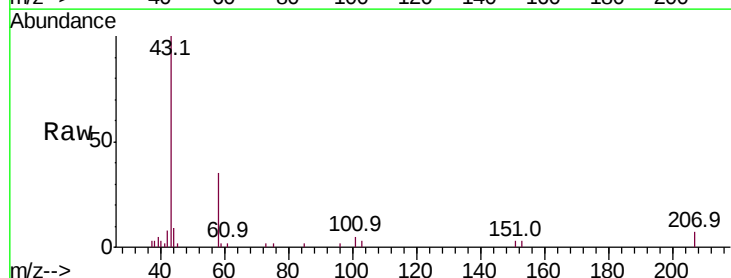
Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

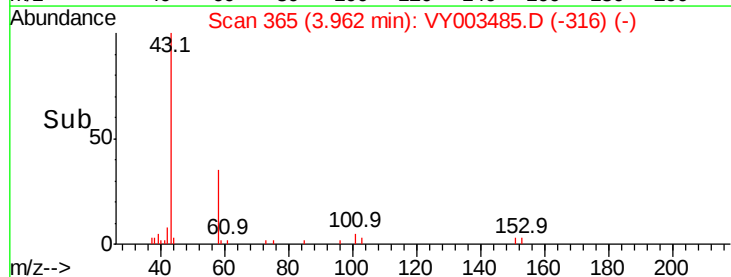
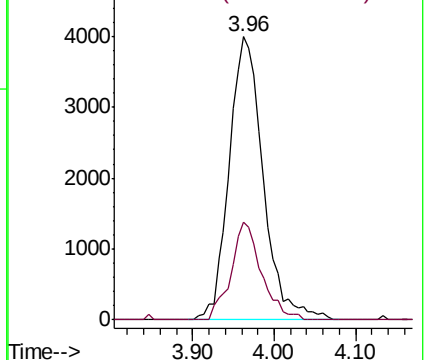
Tgt Ion: 43 Resp: 11500

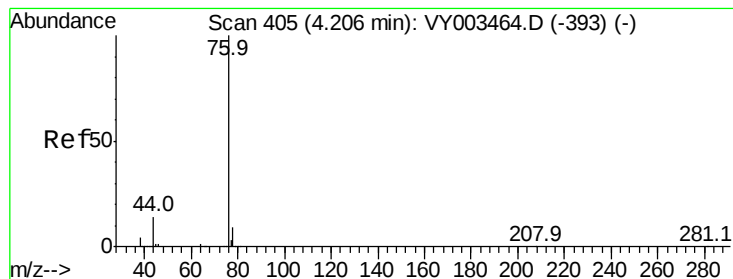
Ion	Ratio	Lower	Upper
43	100		
58	34.5	25.0	37.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#17

Carbon Disulfide

Concen: 2.749 ug/l

RT: 4.21 min Scan# 405

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

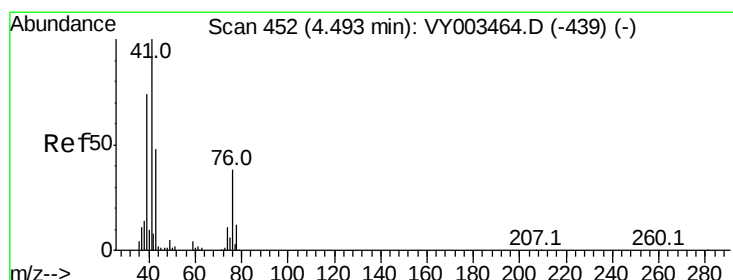
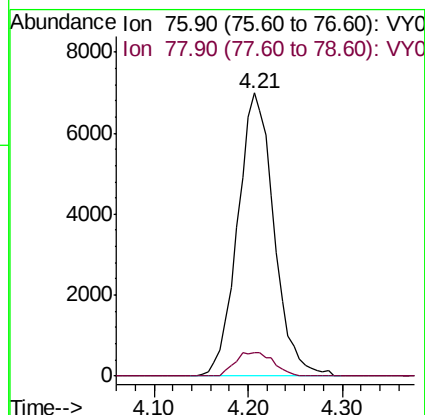
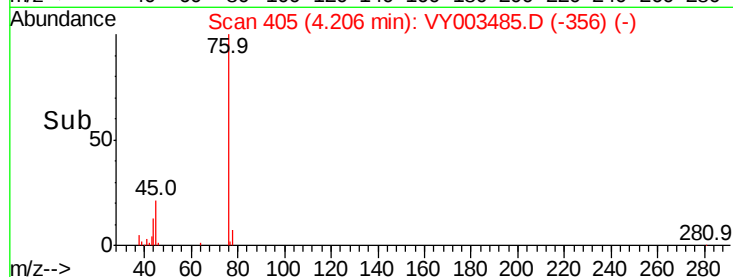
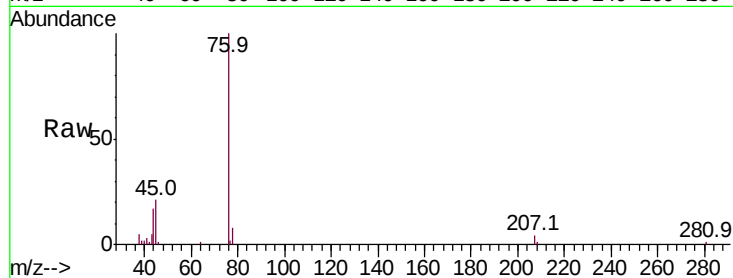
MDL-SOIL-03-QT4-2020

Tot Ion: 76 Resp: 18837

Ion Ratio Lower Upper

76 100

78 8.1 7.4 11.2



#18

Methyl Acetate

Concen: 3.140 ug/l

RT: 4.50 min Scan# 453

Delta R.T. 0.01 min

Lab File: VY003485.D

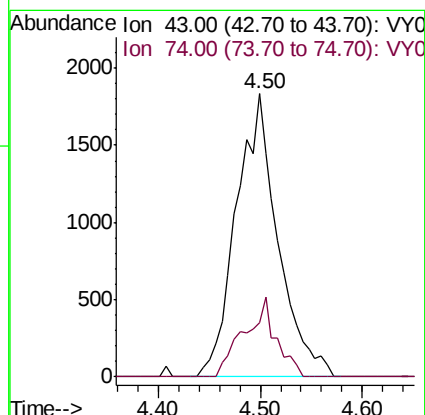
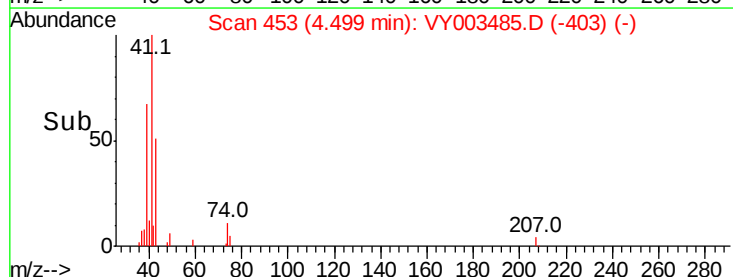
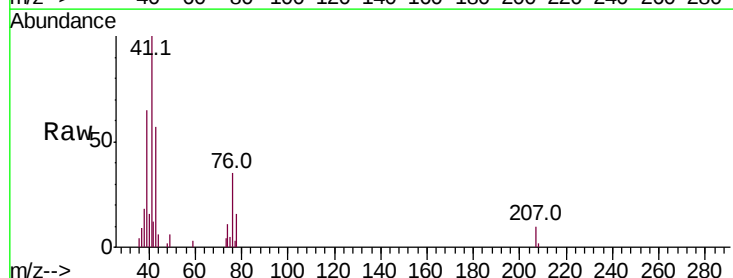
Acq: 03 Nov 2020 12:32

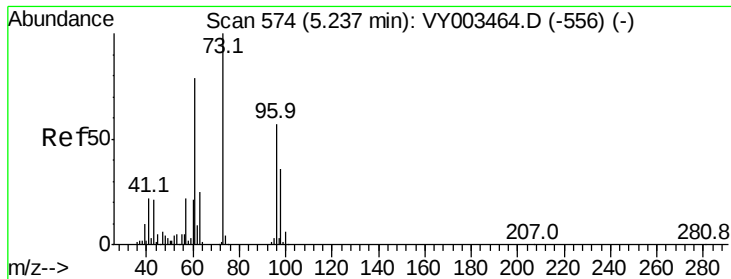
Tgt Ion: 43 Resp: 5201

Ion Ratio Lower Upper

43 100

74 21.6 18.4 27.6



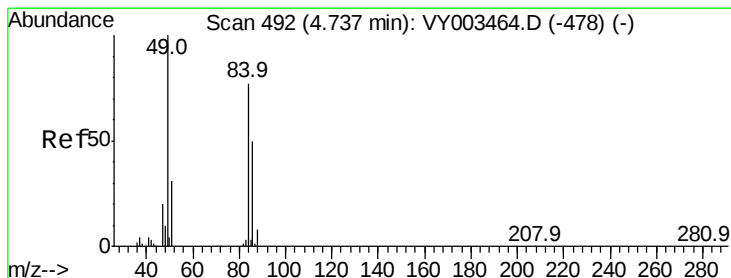
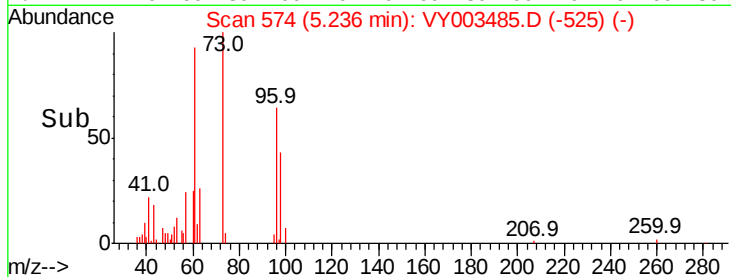
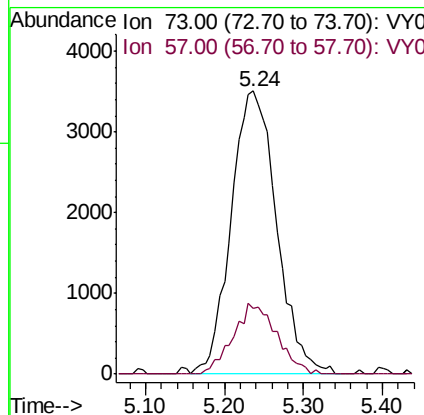
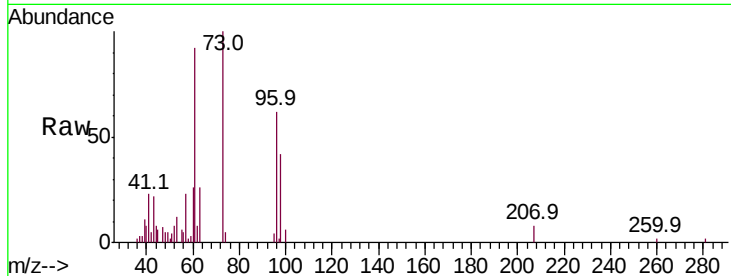


#19

Methyl tert-butyl Ether
 Concen: 2.680 ug/l
 RT: 5.24 min Scan# 574
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

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

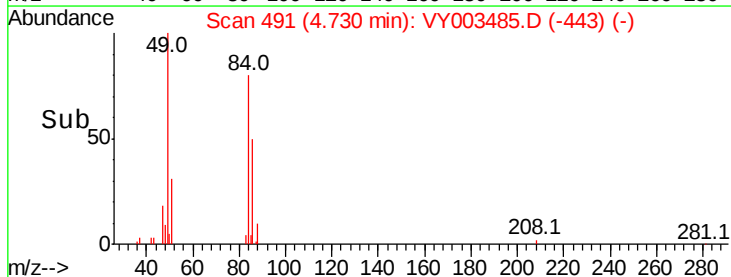
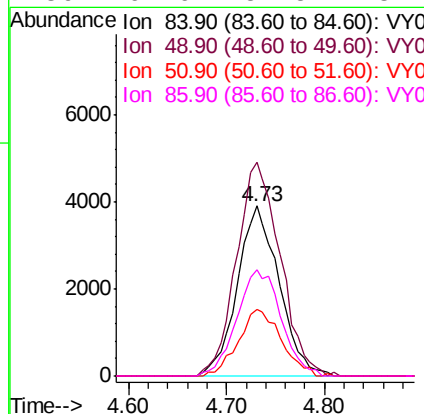
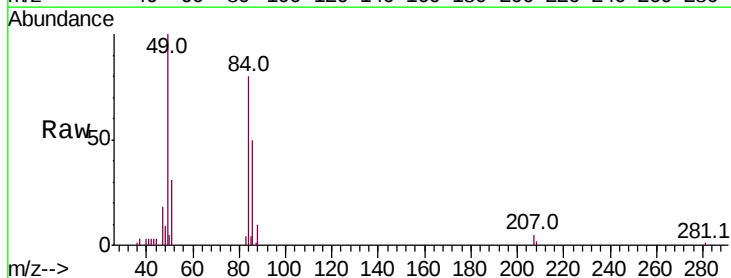
Tot Ion: 73 Resp: 14037
 Ion Ratio Lower Upper
 73 100
 57 23.1 17.2 25.8

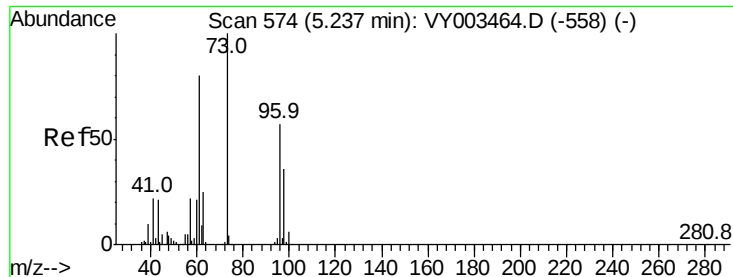


#20

Methylene Chloride
 Concen: 4.700 ug/l
 RT: 4.73 min Scan# 491
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion: 84 Resp: 11600
 Ion Ratio Lower Upper
 84 100
 49 125.6 104.3 156.5
 51 38.9 32.5 48.7
 86 62.6 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 2.795 ug/l

RT: 5.23 min Scan# 573

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

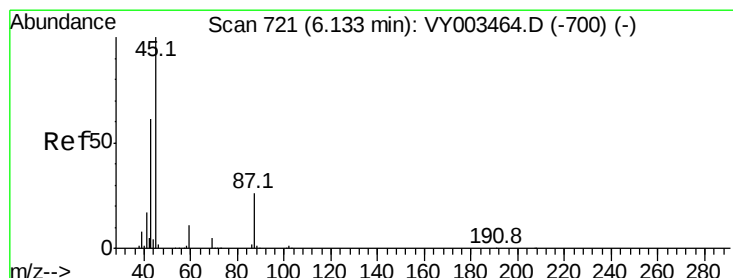
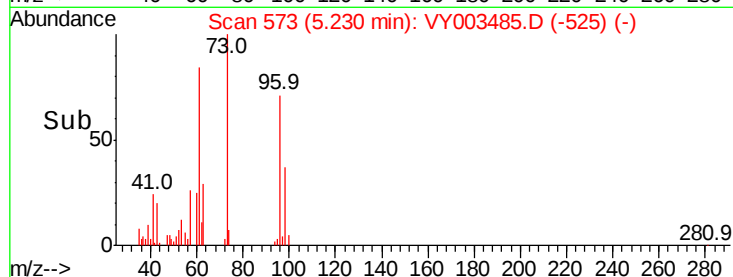
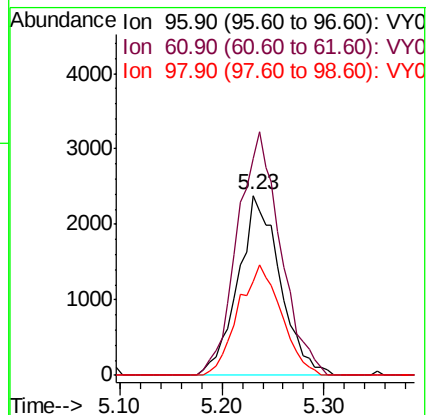
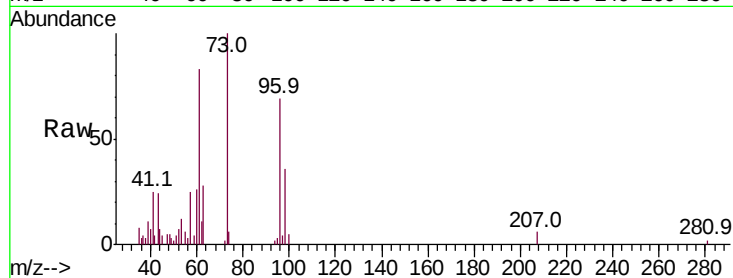
Tot Ion: 96 Resp: 6844

Ion Ratio Lower Upper

96 100

61 120.6 111.3 166.9

98 52.2 50.3 75.5



#22

Diisopropyl ether

Concen: 2.547 ug/l

RT: 6.14 min Scan# 722

Delta R.T. 0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion: 45 Resp: 17236

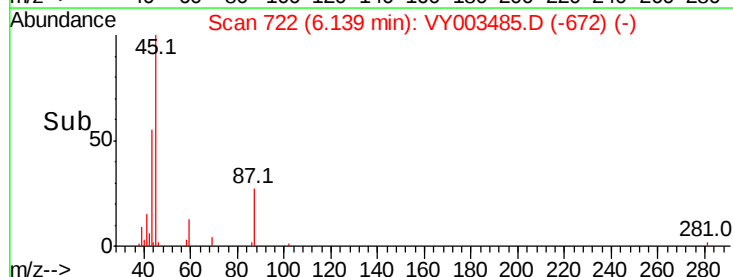
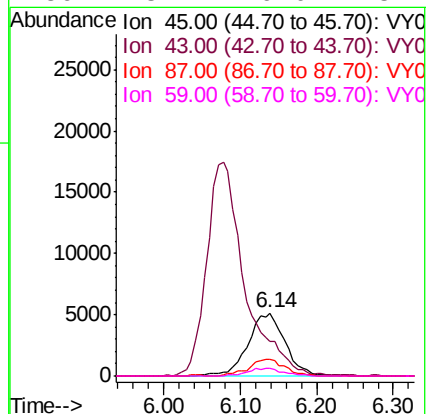
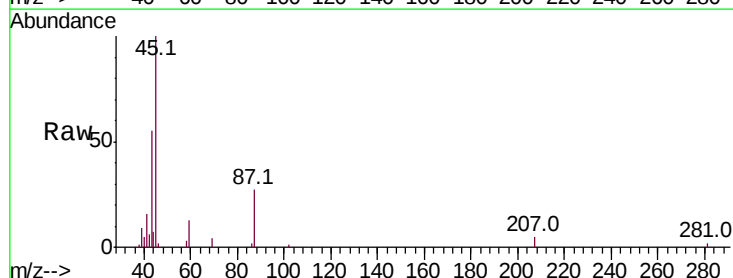
Ion Ratio Lower Upper

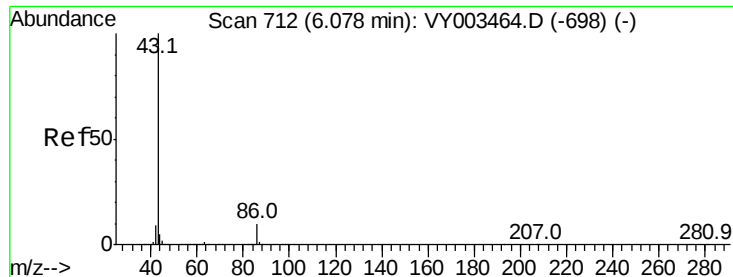
45 100

43 53.5 48.8 73.2

87 26.6 20.6 31.0

59 13.2 9.0 13.4





#23

Vinyl Acetate

Concen: 11.929 ug/l

RT: 6.08 min Scan# 712

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

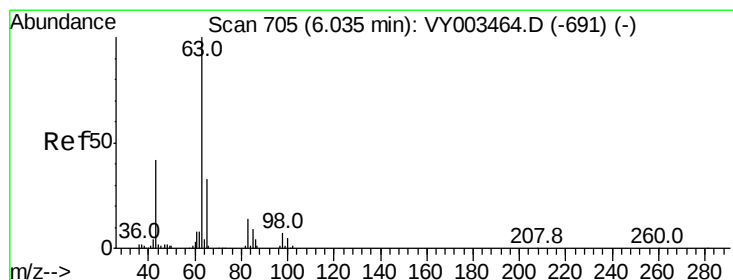
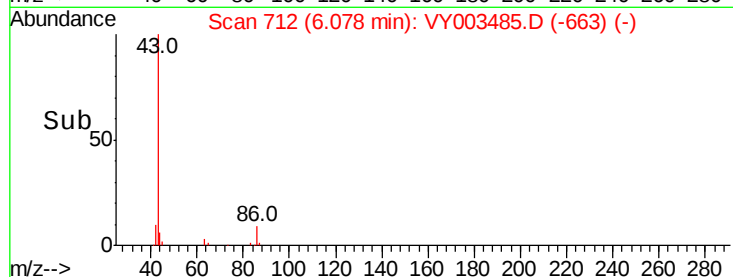
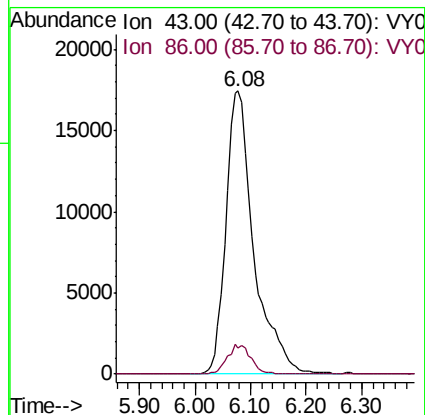
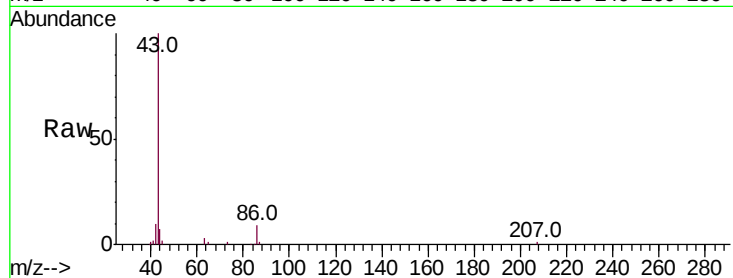
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 60664

Ion Ratio Lower Upper

43 100

86 9.3 8.2 12.2



#24

1,1-Dichloroethane

Concen: 2.775 ug/l

RT: 6.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

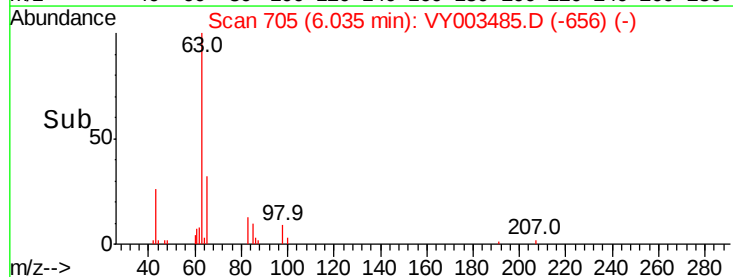
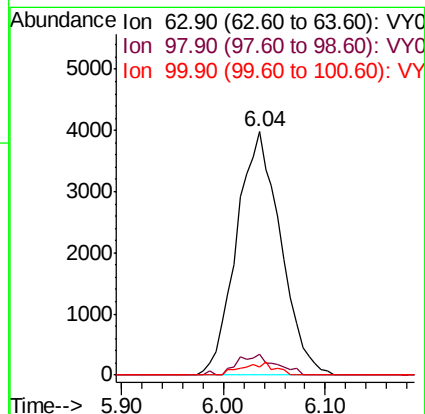
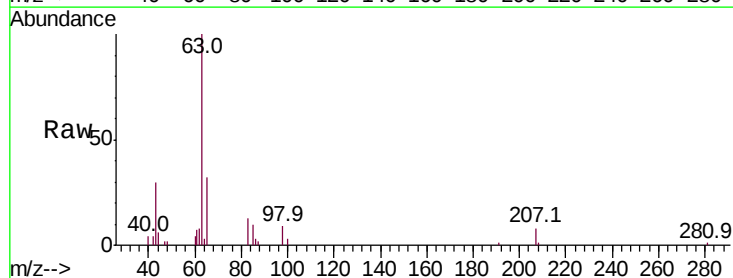
Tgt Ion: 63 Resp: 11933

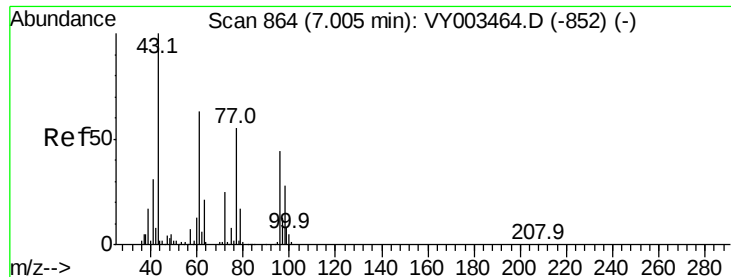
Ion Ratio Lower Upper

63 100

98 8.7 3.6 10.8

100 3.1 2.3 6.9





#25

2-Butanone

Concen: 12.882 ug/l

RT: 7.00 min Scan# 864

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

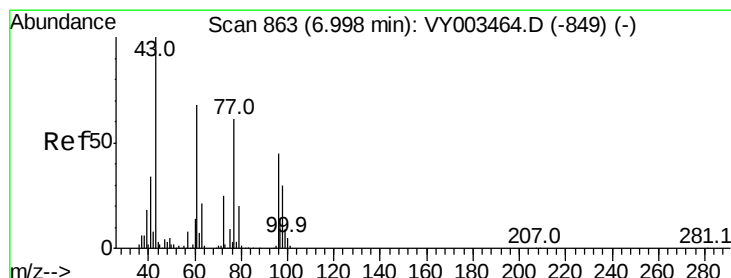
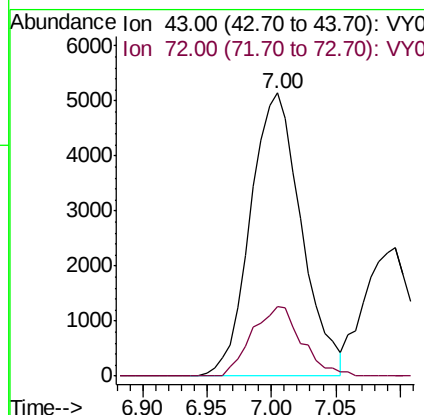
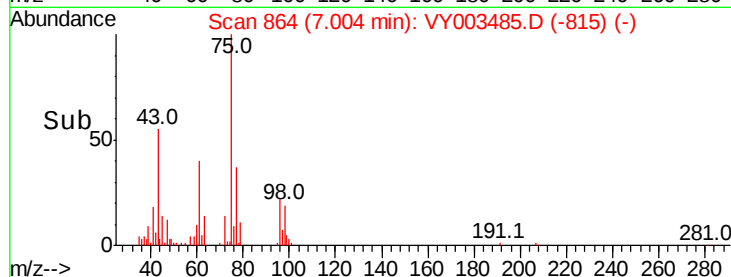
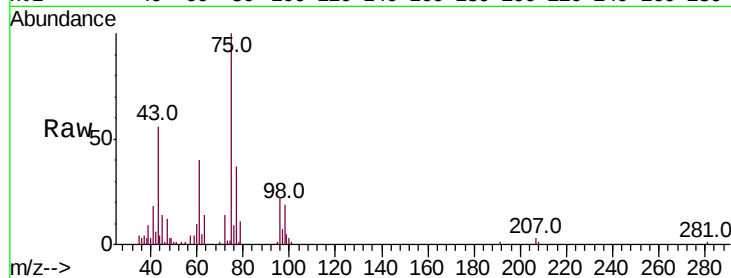
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 14120

Ion Ratio Lower Upper

43 100

72 24.7 20.1 30.1



#26

2,2-Dichloropropane

Concen: 2.837 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.00 min

Lab File: VY003485.D

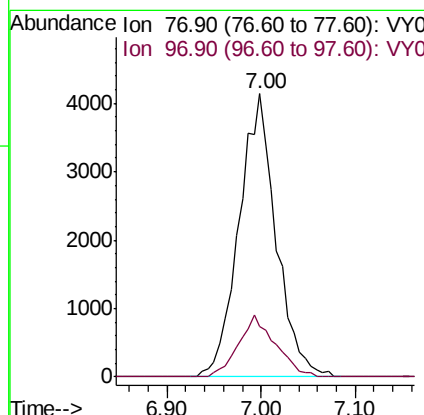
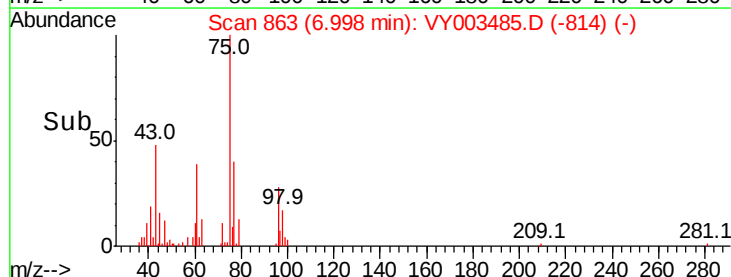
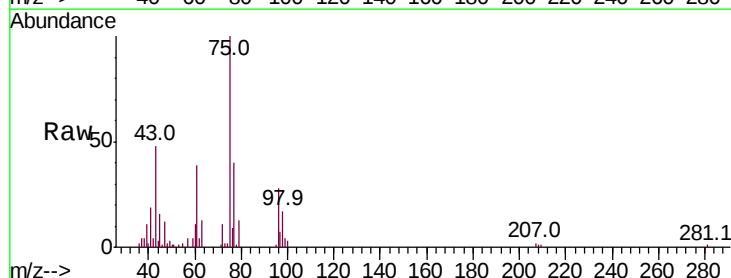
Acq: 03 Nov 2020 12:32

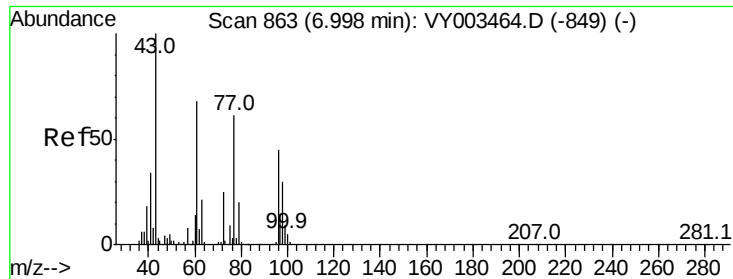
Tgt Ion: 77 Resp: 11367

Ion Ratio Lower Upper

77 100

97 21.7 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 2.758 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

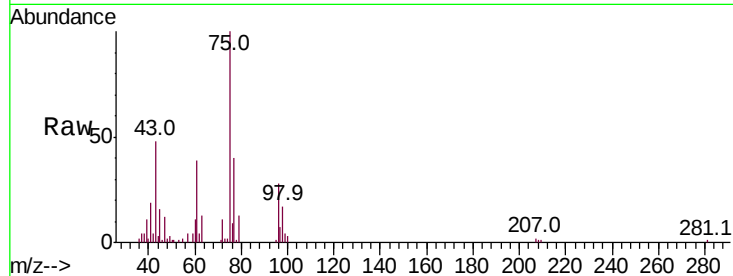
Tot Ion: 96 Resp: 7318

Ion Ratio Lower Upper

96 100

61 153.9 0.0 299.2

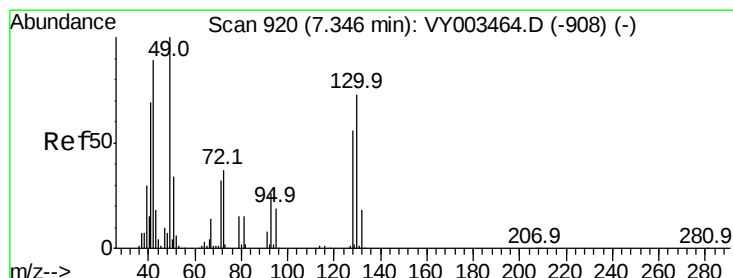
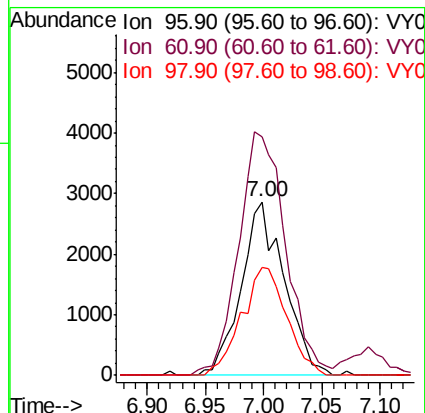
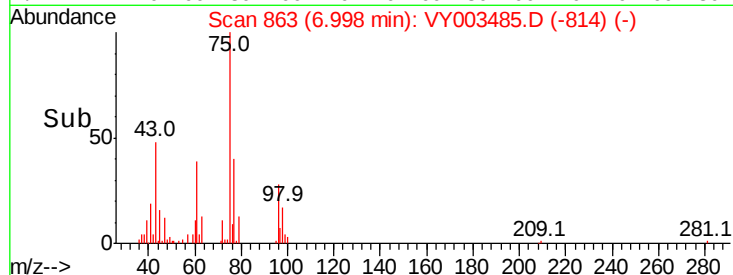
98 65.4 0.0 128.6



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: 2.921 ug/l

RT: 7.35 min Scan# 920

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

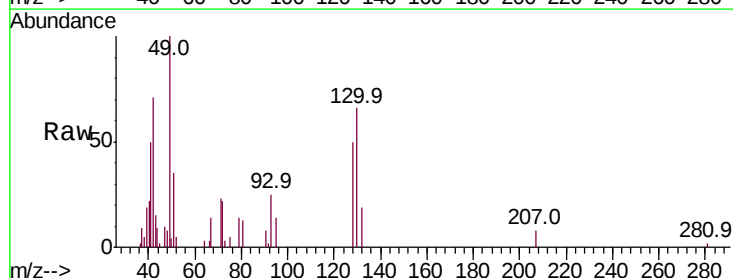
Tgt Ion: 49 Resp: 6320

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

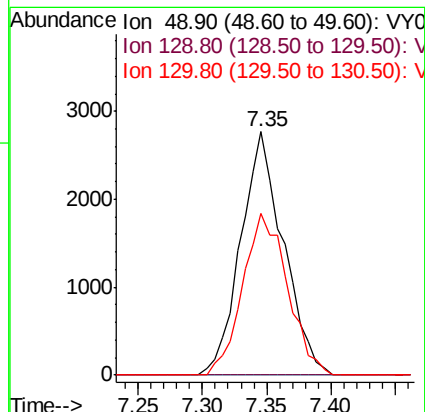
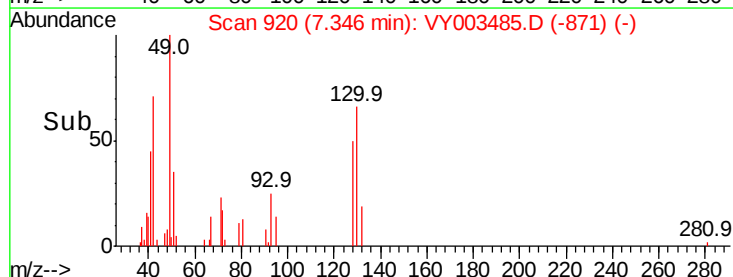
130 69.8 60.0 90.0

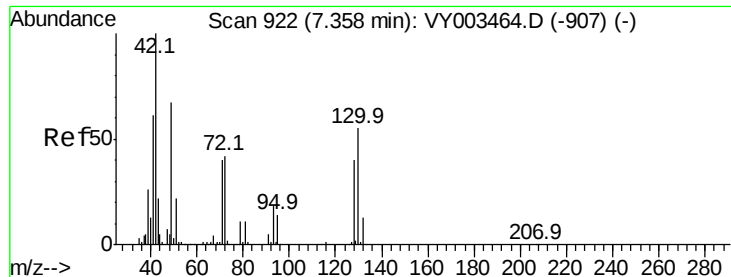


Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 13.294 ug/l

RT: 7.36 min Scan# 922

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

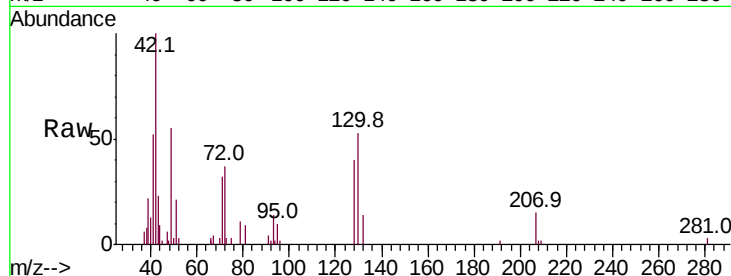
Tot Ion: 42 Resp: 7614

Ion Ratio Lower Upper

42 100

72 44.6 32.8 49.2

71 37.4 30.7 46.1

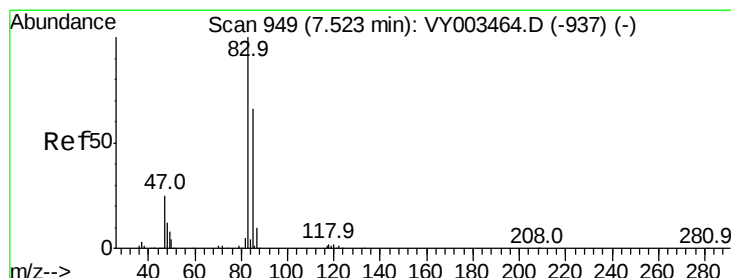
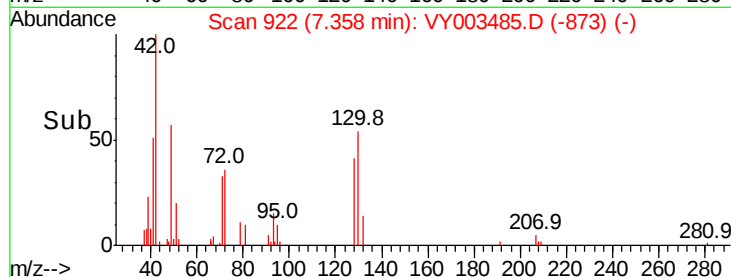


Abundance Ion 42.00 (41.70 to 42.70): VY003464.D (-907) (-)

Ion 72.00 (71.70 to 72.70): VY003464.D (-907) (-)

Ion 71.00 (70.70 to 71.70): VY003464.D (-907) (-)

Time-->



#30

Chloroform

Concen: 2.638 ug/l

RT: 7.52 min Scan# 949

Delta R.T. -0.00 min

Lab File: VY003485.D

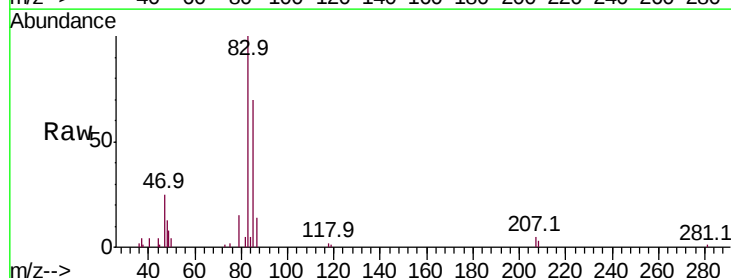
Acq: 03 Nov 2020 12:32

Tgt Ion: 83 Resp: 11143

Ion Ratio Lower Upper

83 100

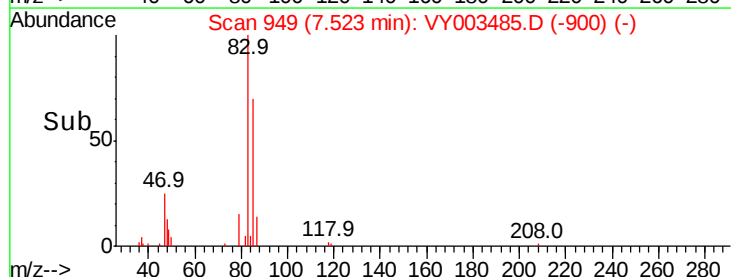
85 69.9 52.6 79.0

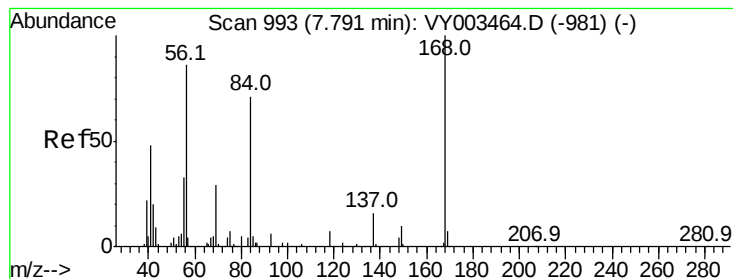


Abundance Ion 82.90 (82.60 to 83.60): VY003464.D (-937) (-)

Ion 84.90 (84.60 to 85.60): VY003464.D (-937) (-)

Time-->





#31

Cyclohexane

Concen: 3.751 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

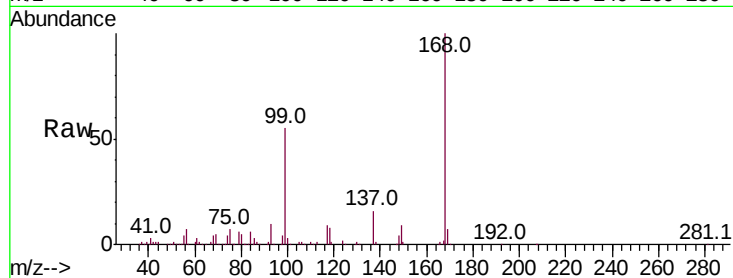
Tot Ion: 56 Resp: 14937

Ion Ratio Lower Upper

56 100

69 69.9 26.6 39.8#

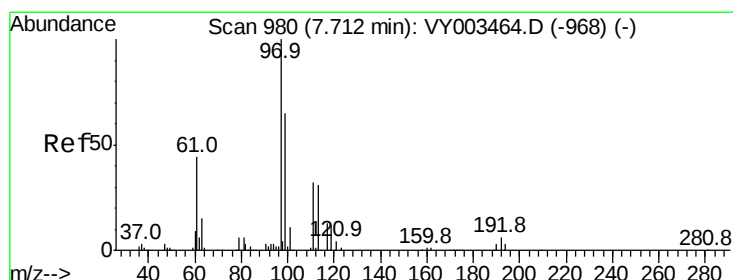
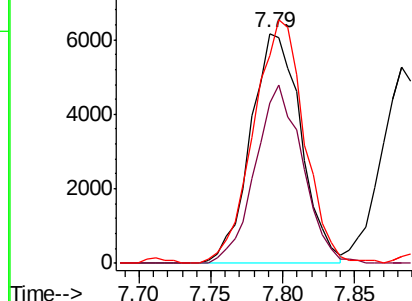
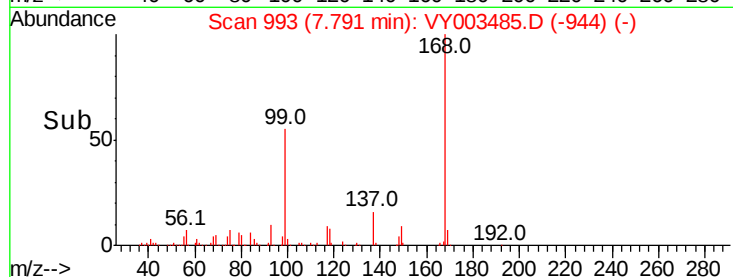
84 90.4 65.9 98.9



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: 2.622 ug/l

RT: 7.71 min Scan# 980

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

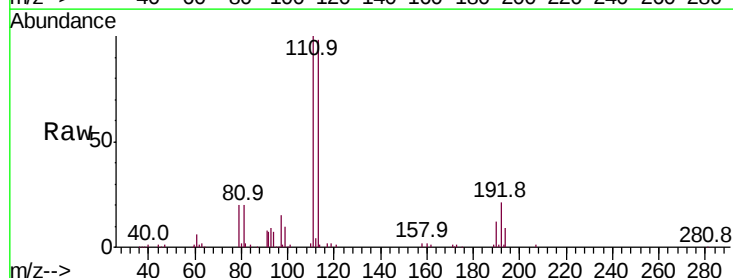
Tgt Ion: 97 Resp: 10333

Ion Ratio Lower Upper

97 100

99 65.9 51.6 77.4

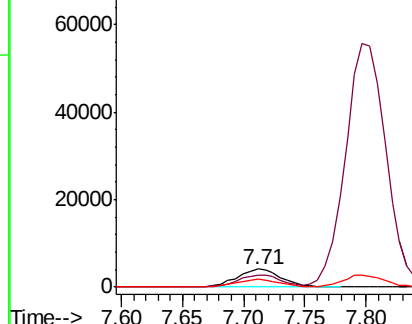
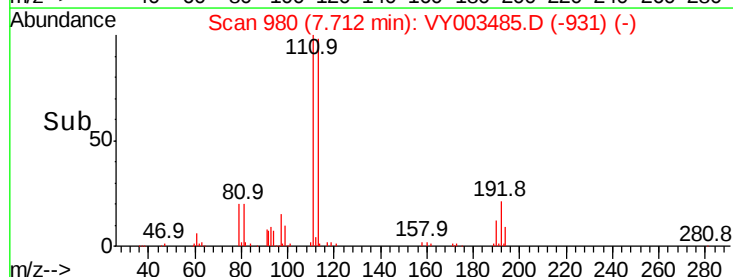
61 42.4 35.1 52.7

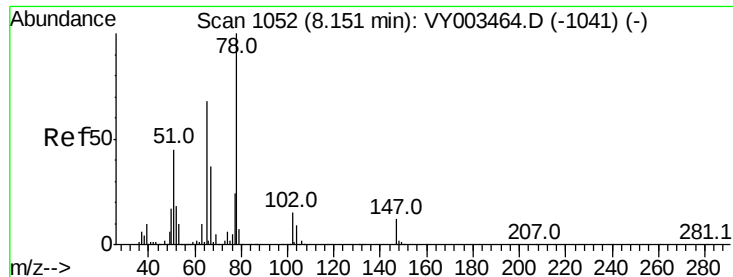


Abundance Ion 96.90 (96.60 to 97.60): VY0

Ion 98.90 (98.60 to 99.60): VY0

Ion 60.90 (60.60 to 61.60): VY0





#33

1,2-Dichloroethane-d4

Concen: 51.447 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

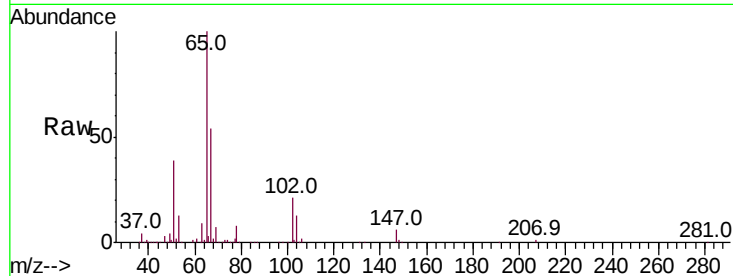
MDL-SOIL-03-QT4-2020

Tot Ion: 65 Resp: 136675

Ion Ratio Lower Upper

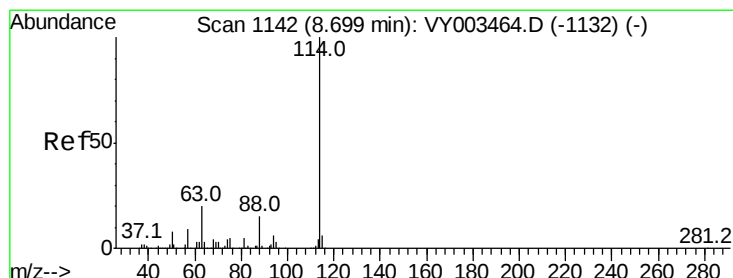
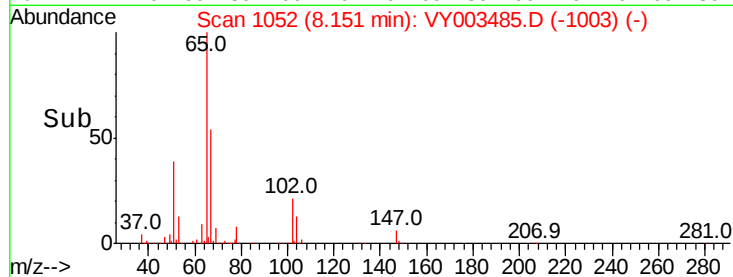
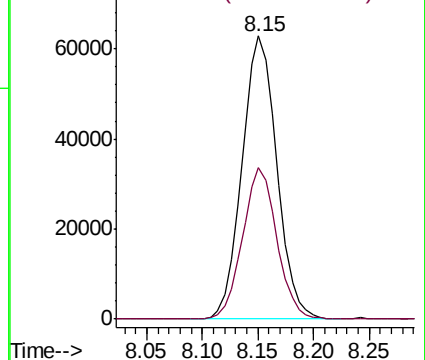
65 100

67 52.7 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

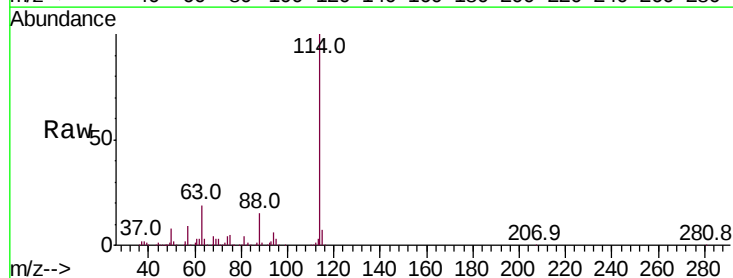
Tgt Ion: 114 Resp: 377078

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.6

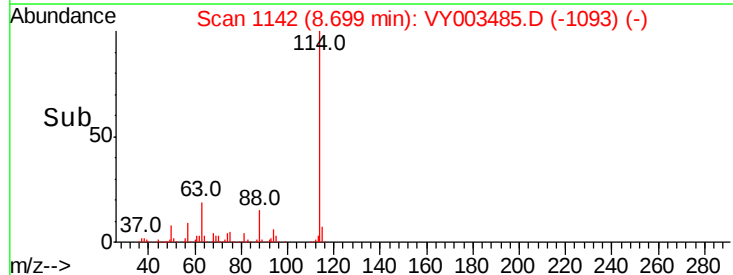
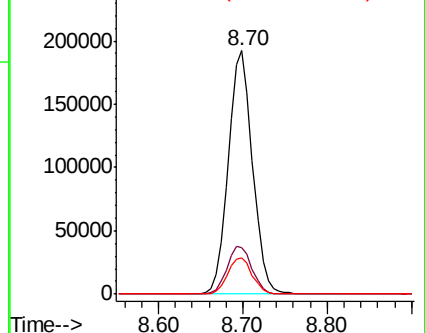
88 15.1 0.0 29.4

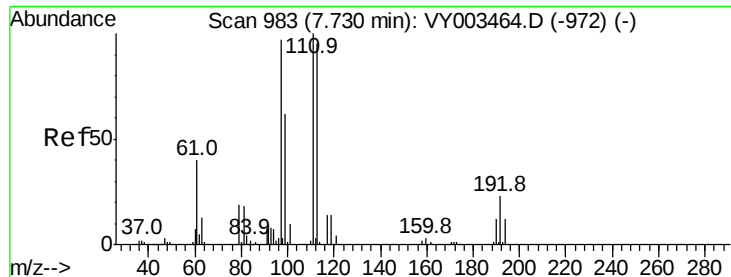


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

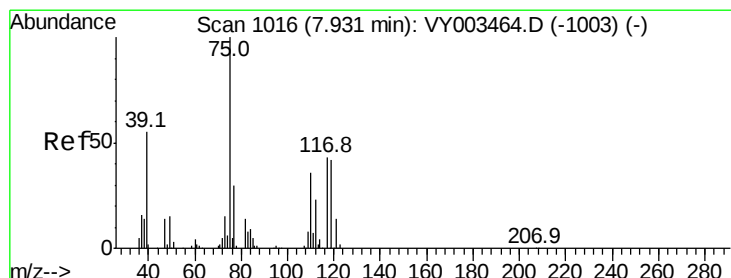
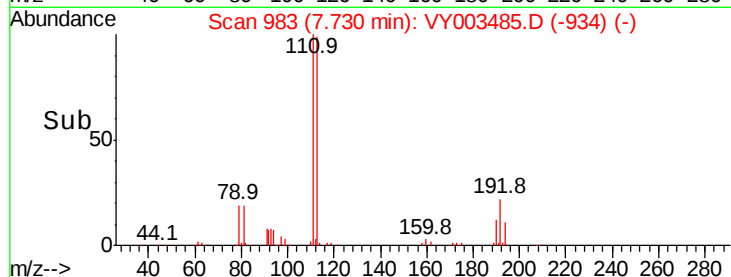
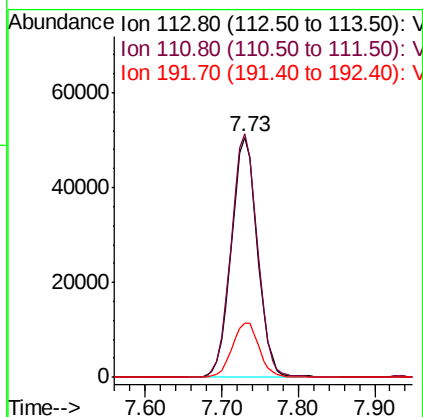
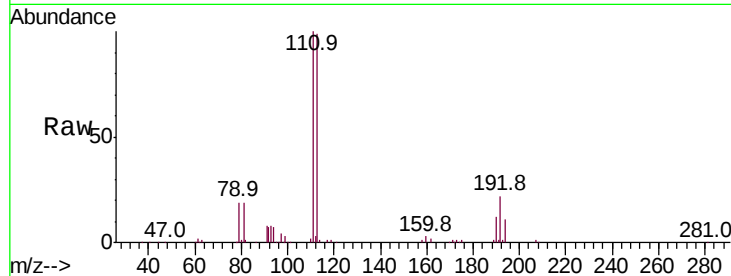




#35
 Dibromofluoromethane
 Concen: 51.918 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

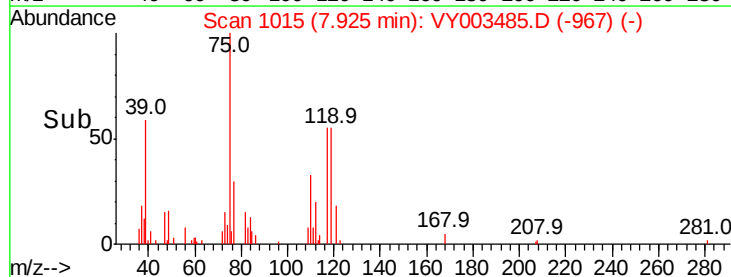
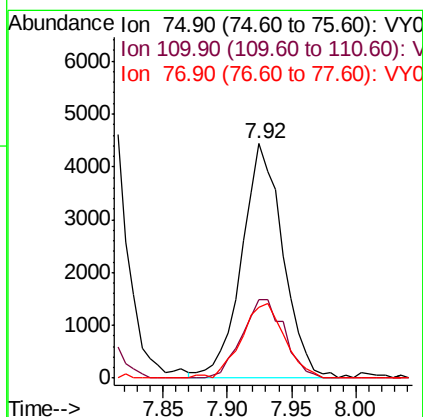
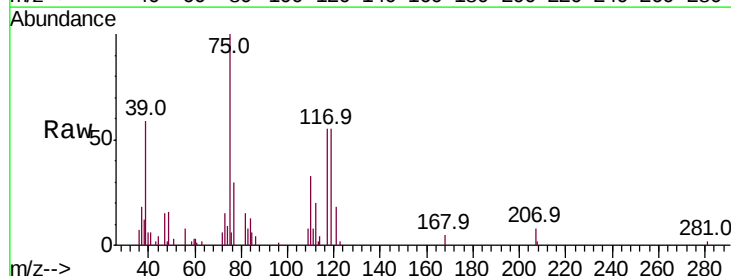
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

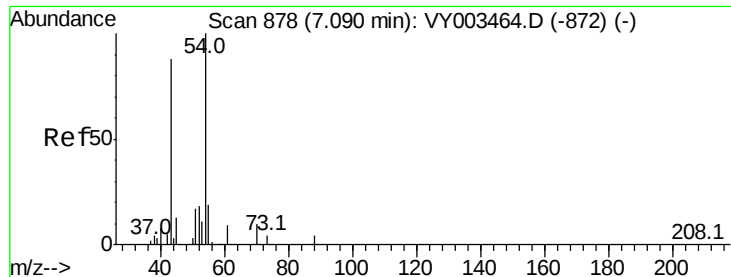
Tot Ion:113 Resp: 119131
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.8 122.6
 192 23.3 18.8 28.2



#36
 1,1-Dichloropropene
 Concen: 2.762 ug/l
 RT: 7.92 min Scan# 1015
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion: 75 Resp: 9820
 Ion Ratio Lower Upper
 75 100
 110 34.5 17.6 52.9
 77 33.6 24.7 37.1

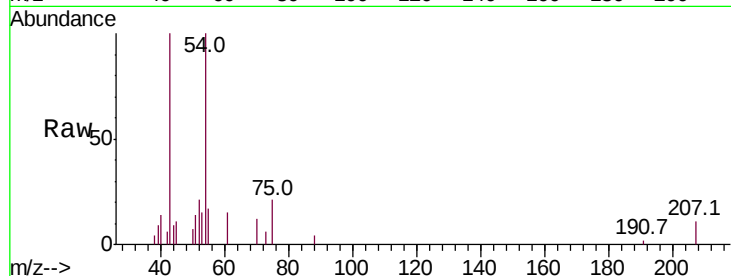




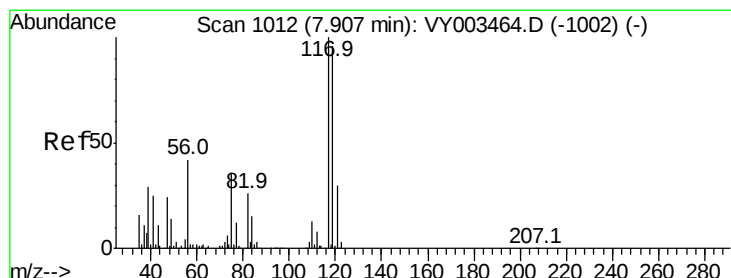
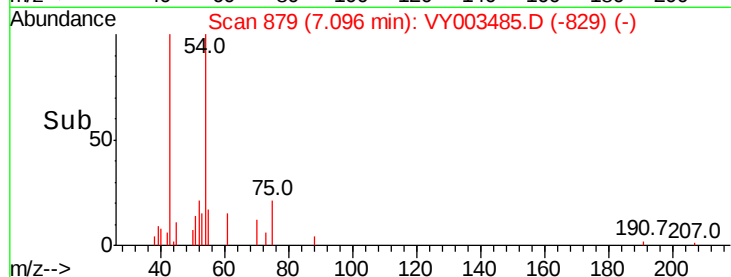
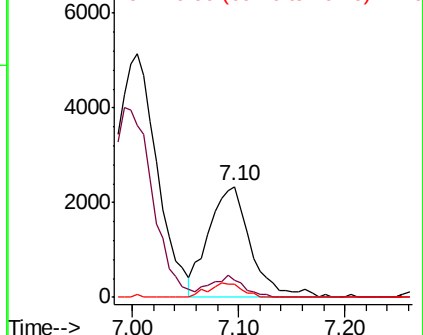
#37
Ethyl Acetate
Concen: 2.911 ug/l
RT: 7.10 min Scan# 879
Delta R.T. 0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

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

Tot Ion: 43 Resp: 6426
Ion Ratio Lower Upper
43 100
61 15.0 11.0 16.6
70 10.1 7.9 11.9

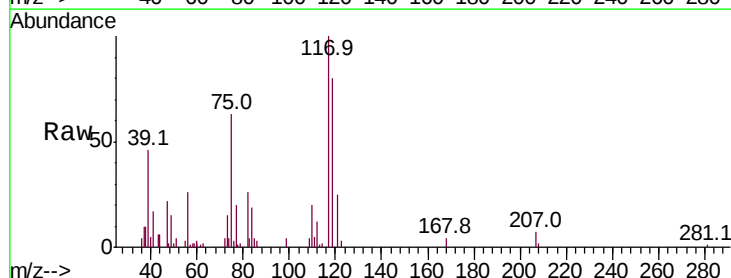


Abundance Ion 43.00 (42.70 to 43.70): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 70.00 (69.70 to 70.70): VY0

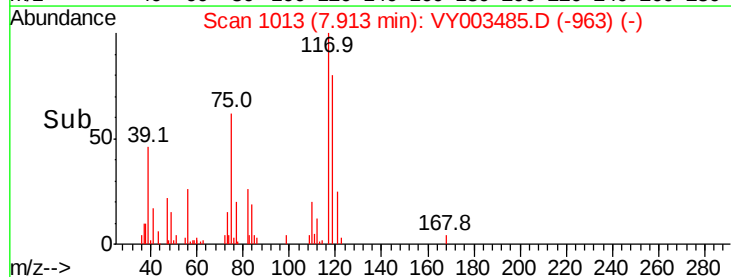
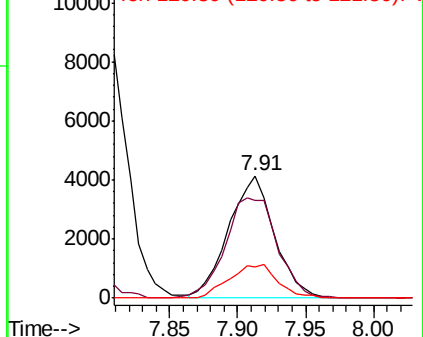


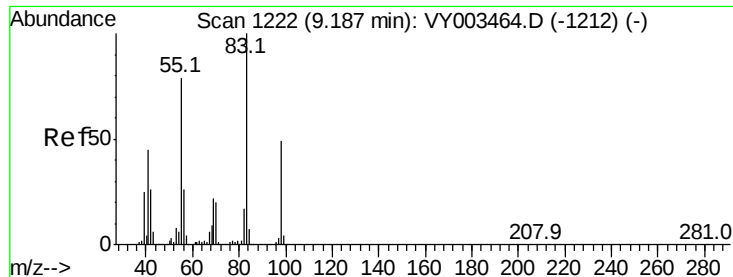
#38
Carbon Tetrachloride
Concen: 2.638 ug/l
RT: 7.91 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 117 Resp: 9730
Ion Ratio Lower Upper
117 100
119 79.7 76.2 114.4
121 25.4 24.2 36.4



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

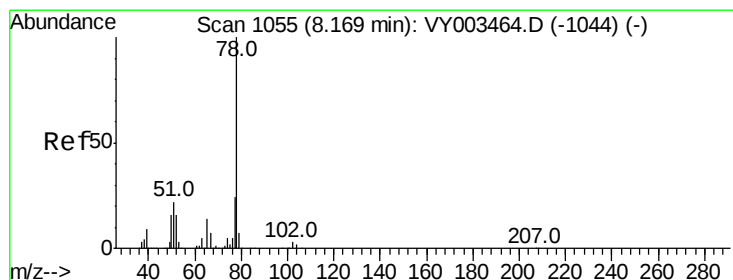
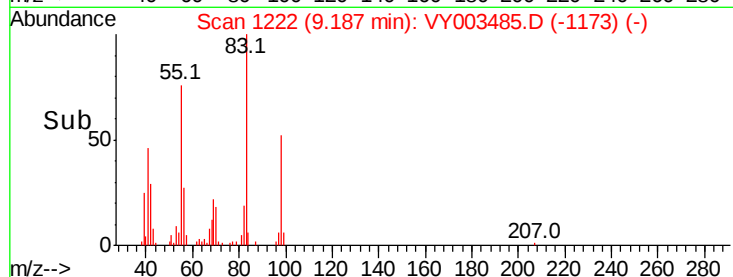
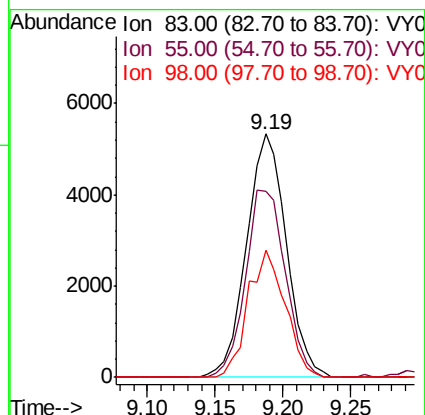
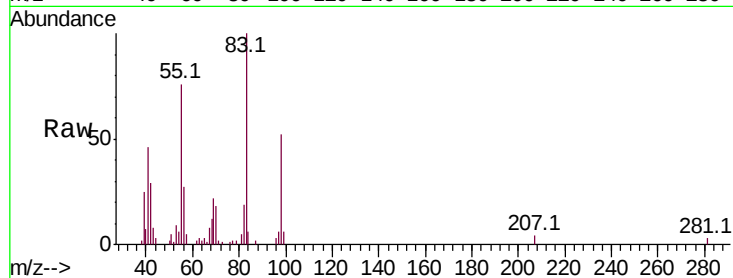




#39
Methvlcvclohexane
Concen: 2.761 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

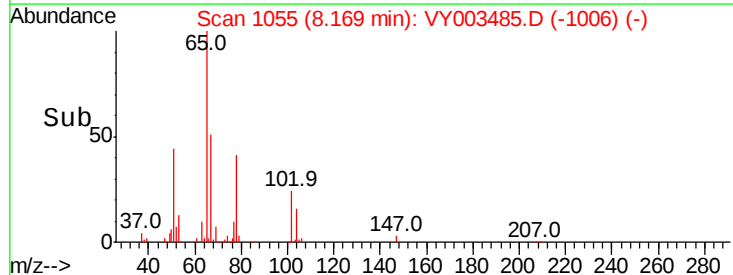
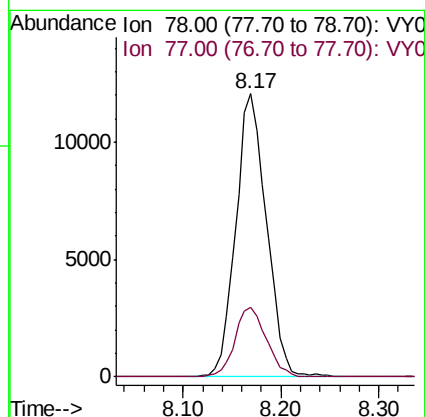
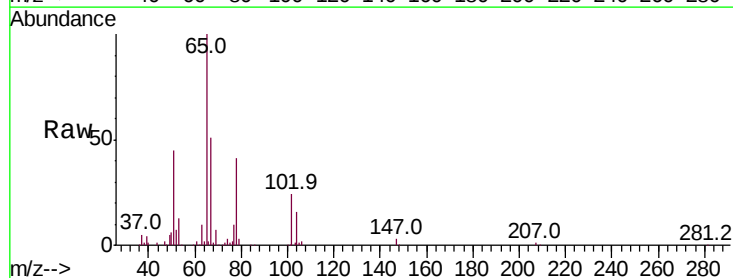
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

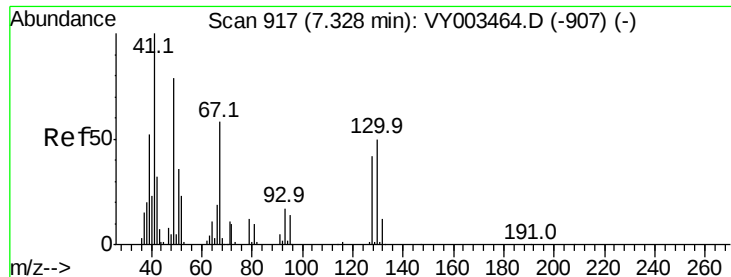
Tot Ion: 83 Resp: 10930
Ion Ratio Lower Upper
83 100
55 76.3 63.5 95.3
98 52.3 39.4 59.2



#40
Benzene
Concen: 2.651 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 78 Resp: 26230
Ion Ratio Lower Upper
78 100
77 24.6 19.4 29.0

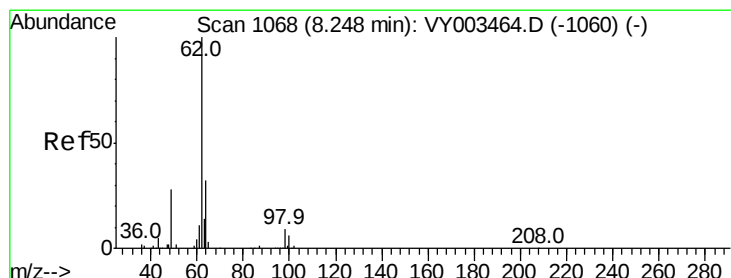
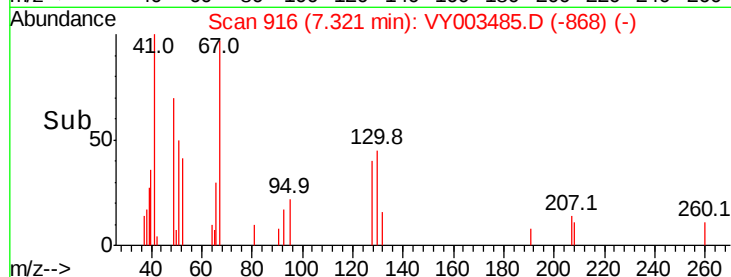
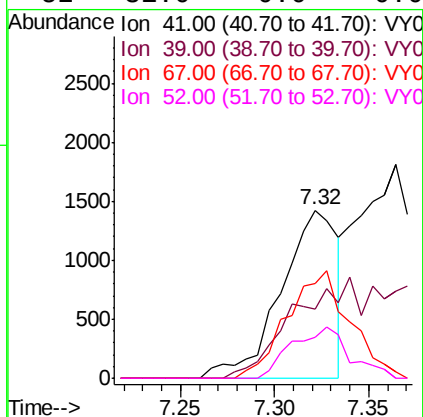
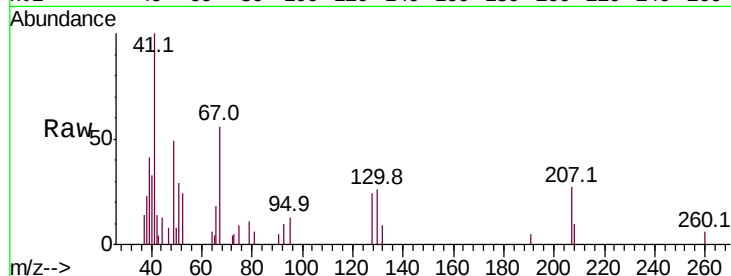




#41
Methacrylonitrile
Concen: 2.529 ug/l
RT: 7.32 min Scan# 916
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

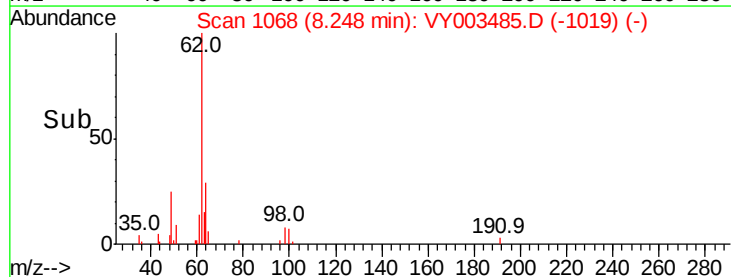
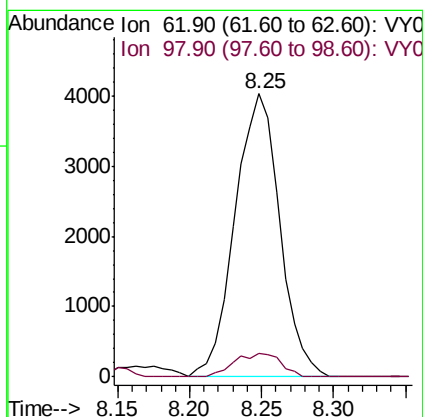
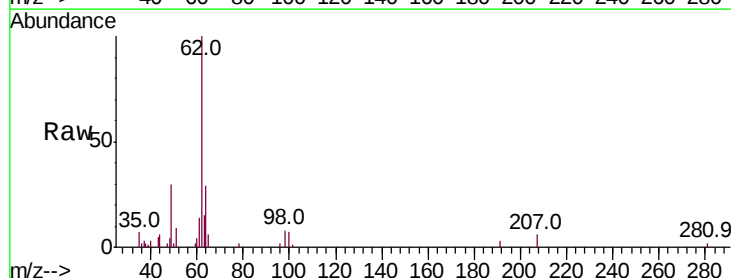
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

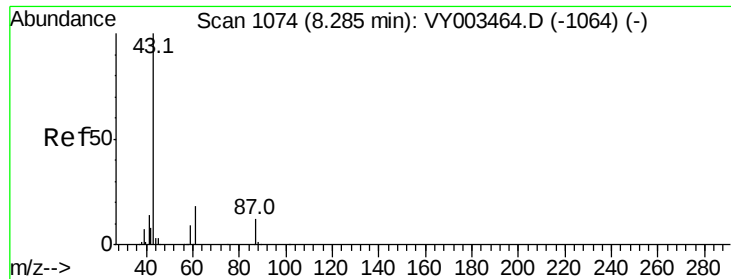
Tot Ion:	41	Resp:	2981
Ion	Ratio	Lower	Upper
41	100		
39	68.4	0.0	0.0#
67	70.1	0.0	0.0#
52	31.0	0.0	0.0#



#42
1,2-Dichloroethane
Concen: 2.812 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion:	62	Resp:	8716
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.2





#43

Isopropyl Acetate

Concen: 2.562 ug/l

RT: 8.28 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

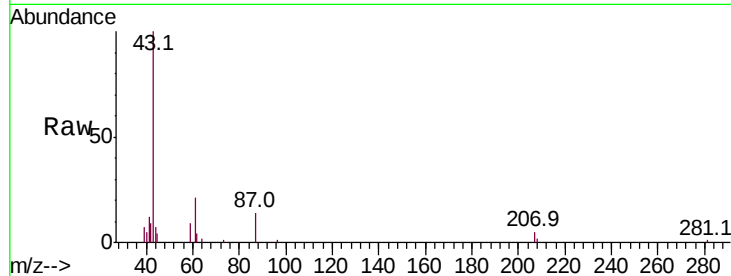
Tot Ion: 43 Resp: 10163

Ion Ratio Lower Upper

43 100

61 30.0 21.9 32.9

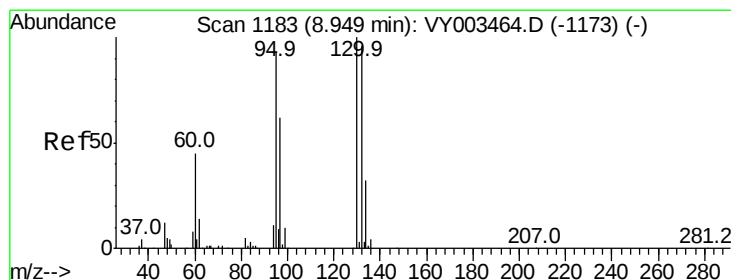
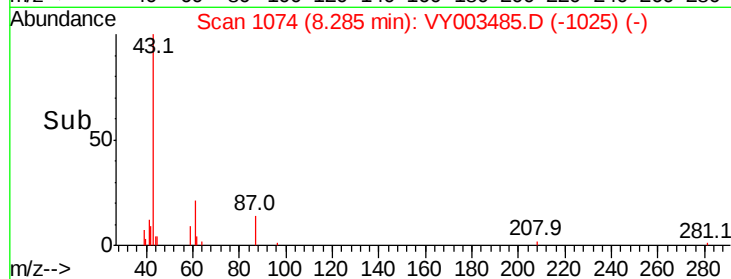
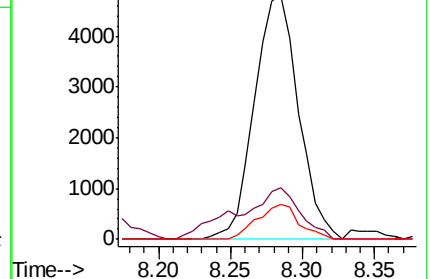
87 13.6 10.0 15.0



Abundance Ion 43.00 (42.70 to 43.70): VY003464.D (-1064) (-)

Ion 61.00 (60.70 to 61.70): VY003464.D (-1064) (-)

Ion 87.00 (86.70 to 87.70): VY003464.D (-1064) (-)



#44

Trichloroethene

Concen: 2.839 ug/l

RT: 8.94 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VY003485.D

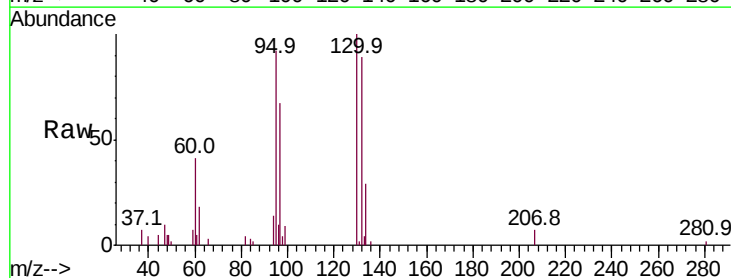
Acq: 03 Nov 2020 12:32

Tgt Ion:130 Resp: 7885

Ion Ratio Lower Upper

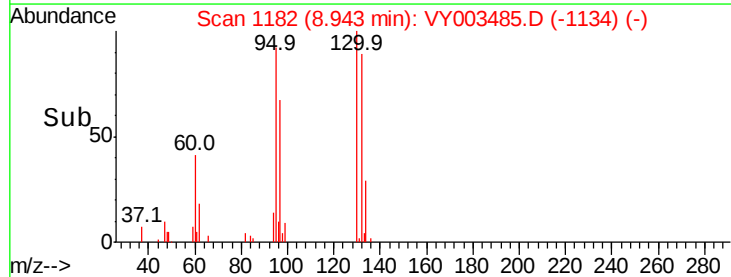
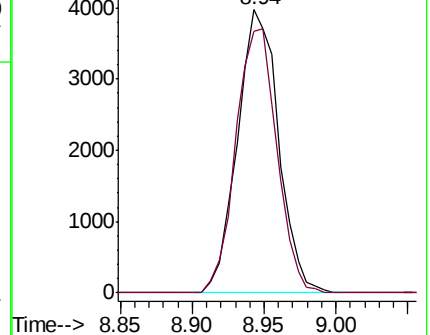
130 100

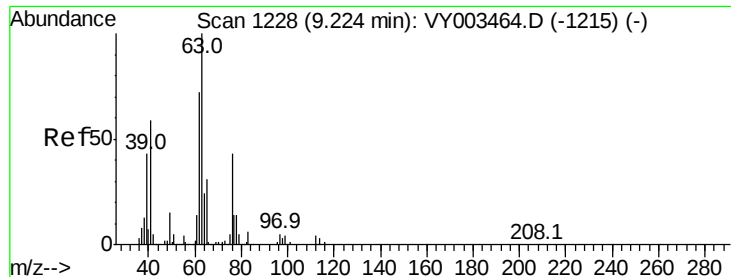
95 92.3 0.0 186.6



Abundance Ion 129.80 (129.50 to 130.50): VY003464.D (-1173) (-)

Ion 94.90 (94.60 to 95.60): VY003464.D (-1173) (-)





#45

1,2-Dichloropropane

Concen: 2.592 ug/l

RT: 9.22 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

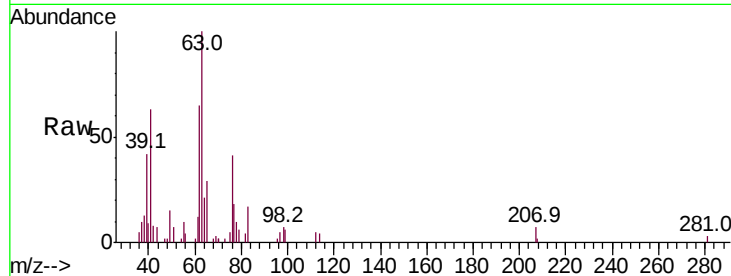
MDL-SOIL-03-QT4-2020

Tot Ion: 63 Resp: 6477

Ion Ratio Lower Upper

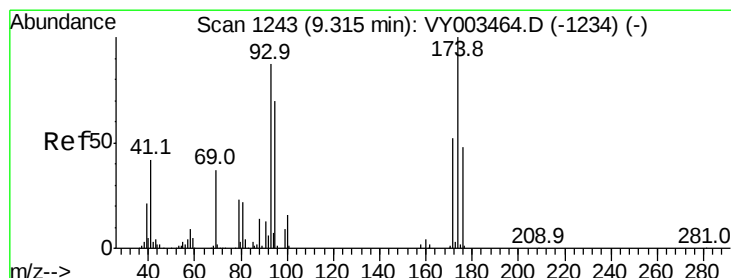
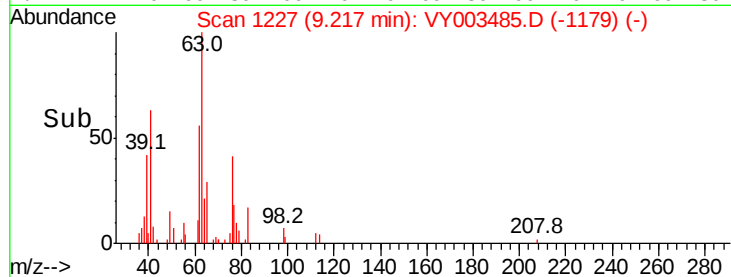
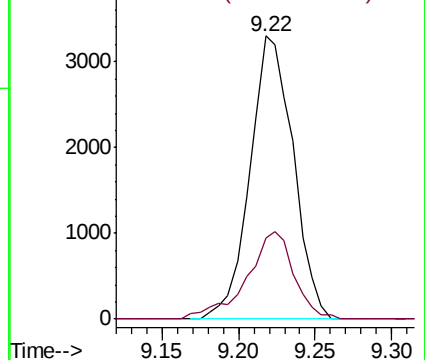
63 100

65 28.9 24.6 36.8



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 64.90 (64.60 to 65.60): VY0



#46

Dibromomethane

Concen: 2.652 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

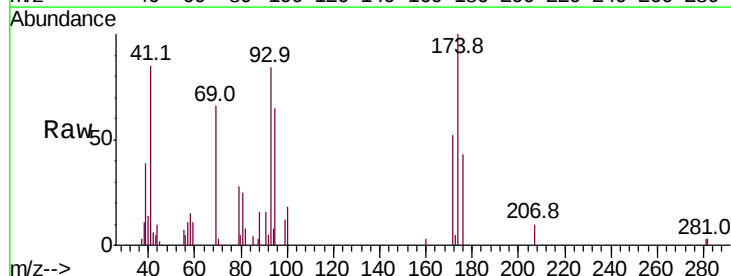
Tgt Ion: 93 Resp: 3646

Ion Ratio Lower Upper

93 100

95 81.1 65.0 97.6

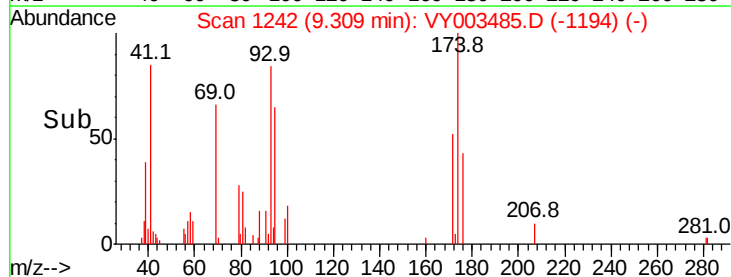
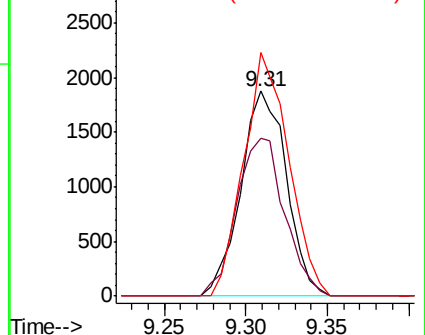
174 117.5 91.8 137.6

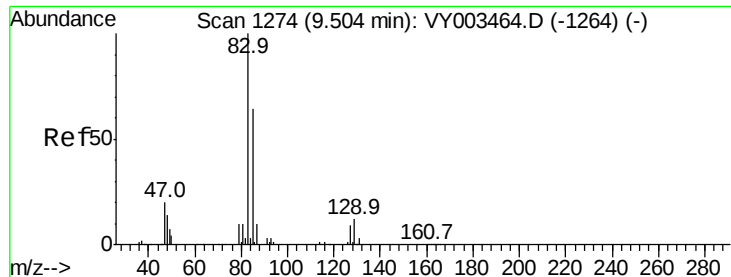


Abundance Ion 92.80 (92.50 to 93.50): VY0

Ion 94.80 (94.50 to 95.50): VY0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 2.514 ug/l

RT: 9.50 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

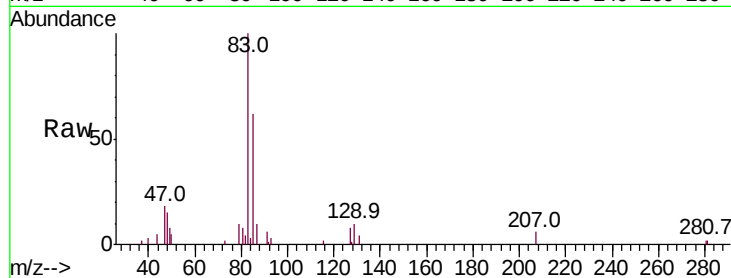
Tot Ion: 83 Resp: 8458

Ion Ratio Lower Upper

83 100

85 62.1 51.0 76.6

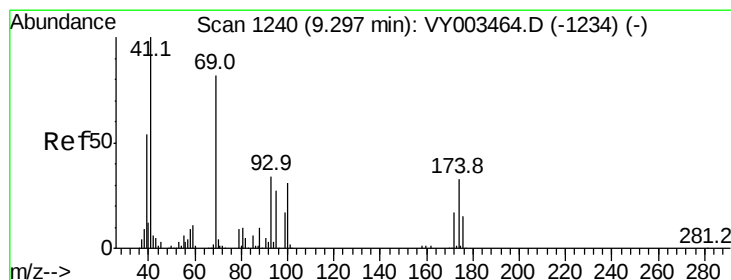
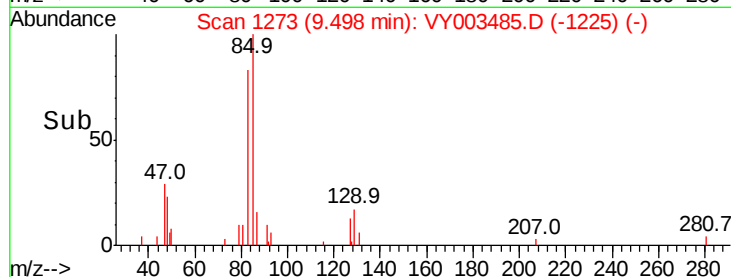
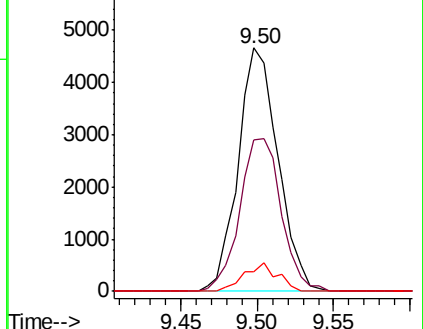
127 8.0 7.1 10.7



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: 2.376 ug/l

RT: 9.30 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

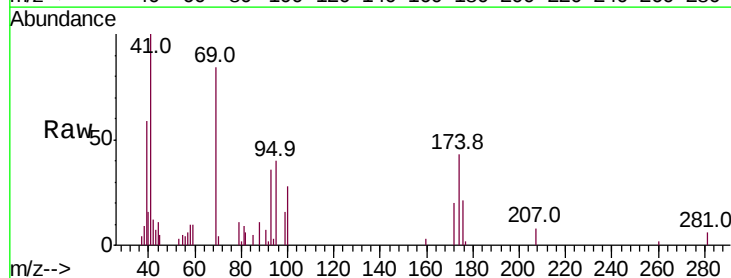
Tgt Ion: 41 Resp: 4441

Ion Ratio Lower Upper

41 100

69 83.4 65.9 98.9

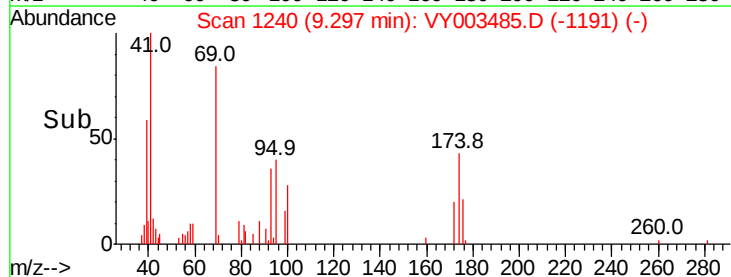
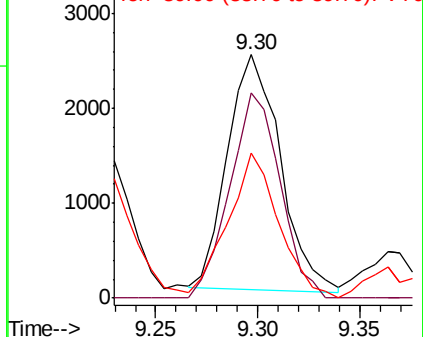
39 59.5 43.2 64.8

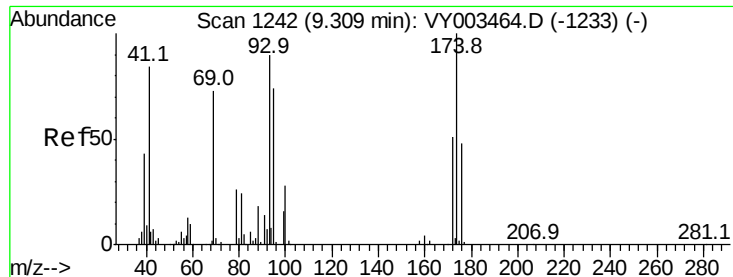


Abundance Ion 41.00 (40.70 to 41.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 39.00 (38.70 to 39.70): VY0

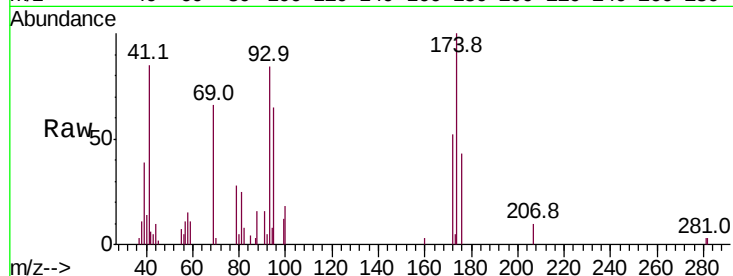




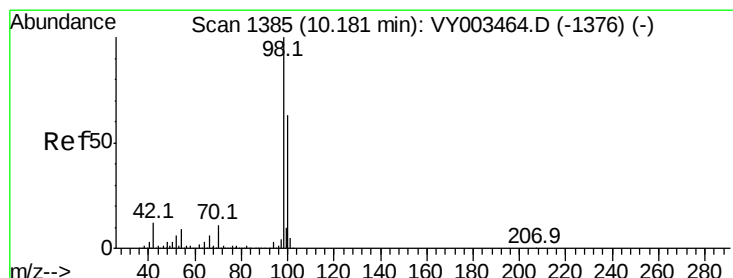
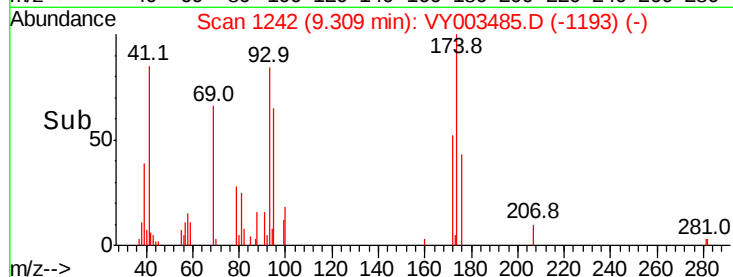
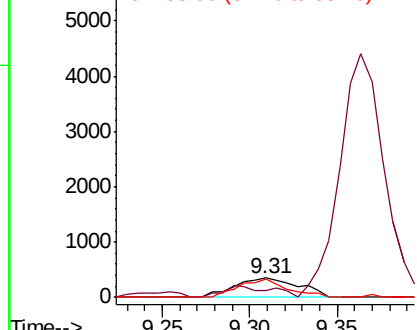
#49
1,4-Dioxane
Concen: 51.598 ug/l
RT: 9.31 min Scan# 1242
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

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

Tot Ion: 88 Resp: 885
Ion Ratio Lower Upper
88 100
43 45.8 27.6 41.4#
58 72.2 54.2 81.2

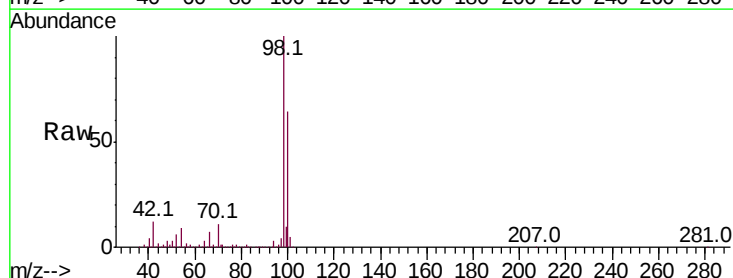


Abundance Ion 88.00 (87.70 to 88.70): VY0
Ion 43.00 (42.70 to 43.70): VY0
Ion 58.00 (57.70 to 58.70): VY0

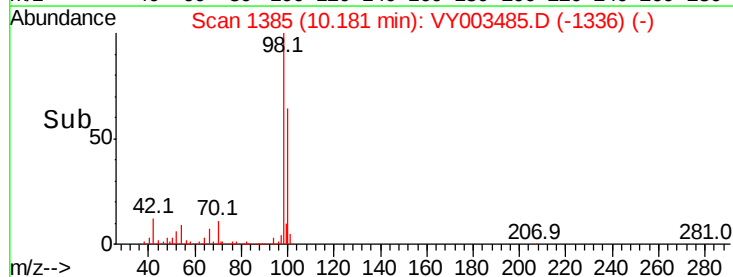
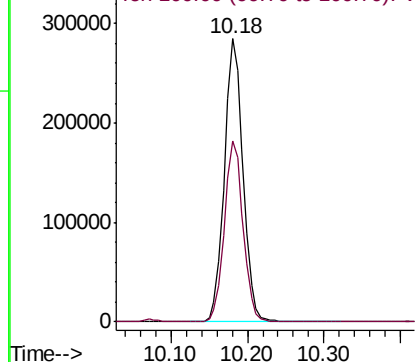


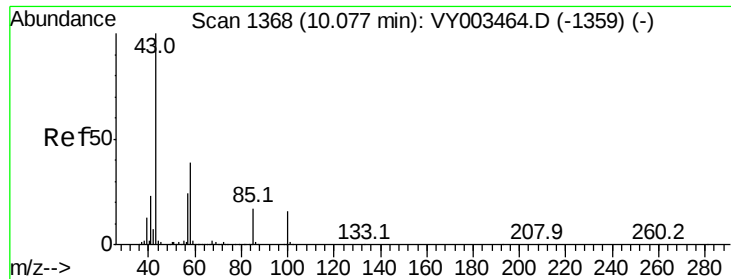
#50
Toluene-d8
Concen: 50.182 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 98 Resp: 479025
Ion Ratio Lower Upper
98 100
100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 13.576 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

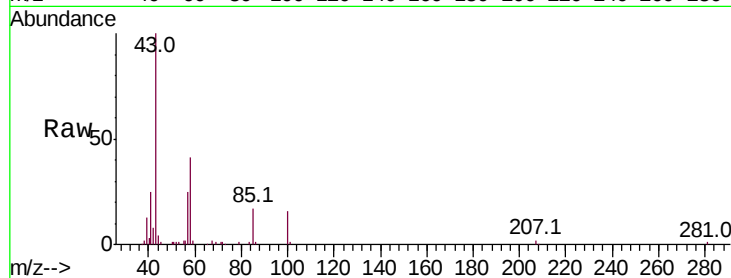
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 28699

Ion Ratio Lower Upper

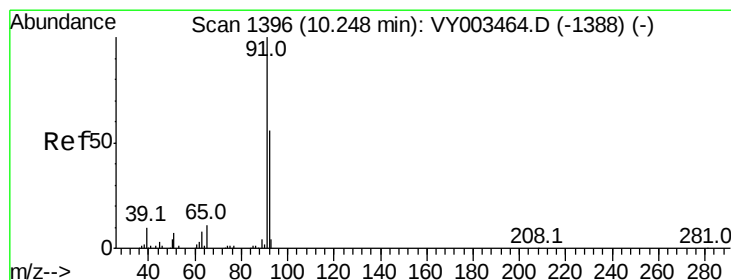
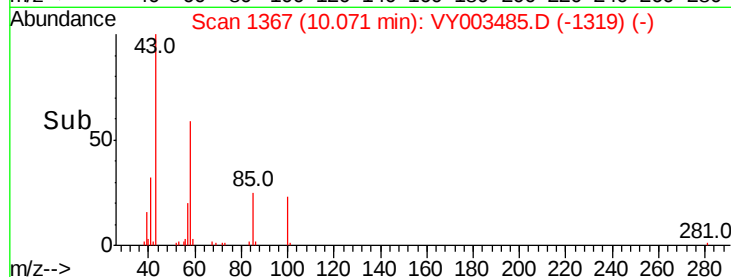
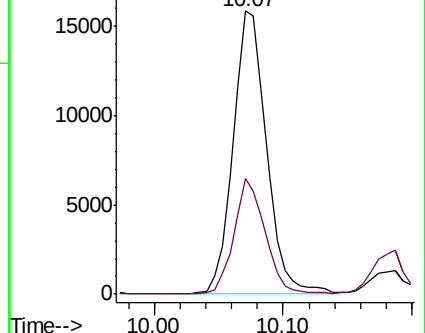
43 100

58 38.1 31.0 46.4



Abundance Ion 43.00 (42.70 to 43.70): VY003464.D (-1359) (-)

Ion 58.00 (57.70 to 58.70): VY003464.D (-1359) (-)



#52

Toluene

Concen: 2.674 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VY003485.D

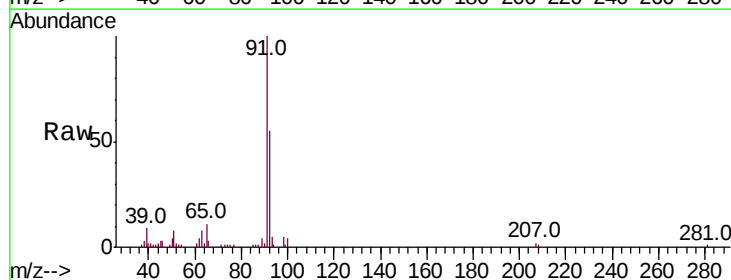
Acq: 03 Nov 2020 12:32

Tgt Ion: 92 Resp: 16550

Ion Ratio Lower Upper

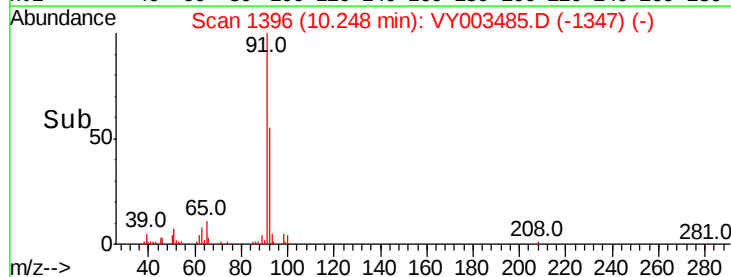
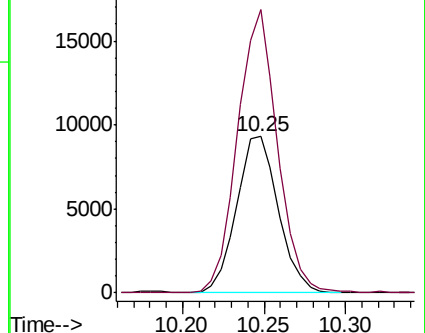
92 100

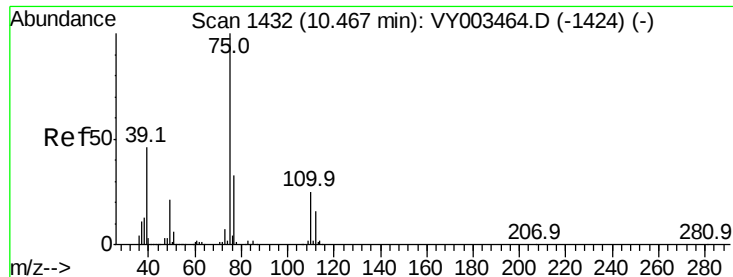
91 173.5 140.2 210.4



Abundance Ion 92.00 (91.70 to 92.70): VY003464.D (-1388) (-)

Ion 91.00 (90.70 to 91.70): VY003464.D (-1388) (-)





#53

t-1,3-Dichloropropene

Concen: 2.618 ug/l

RT: 10.47 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

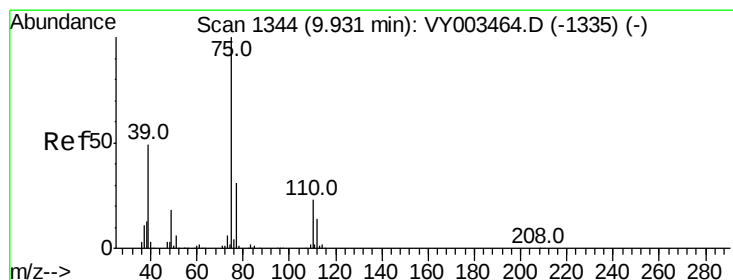
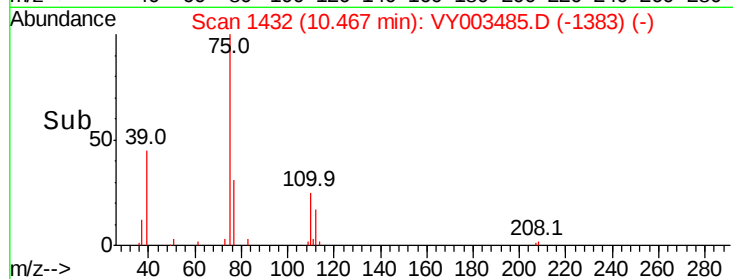
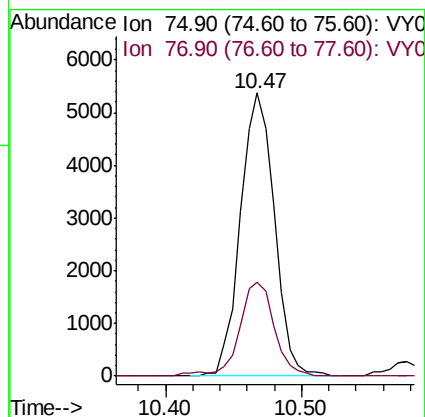
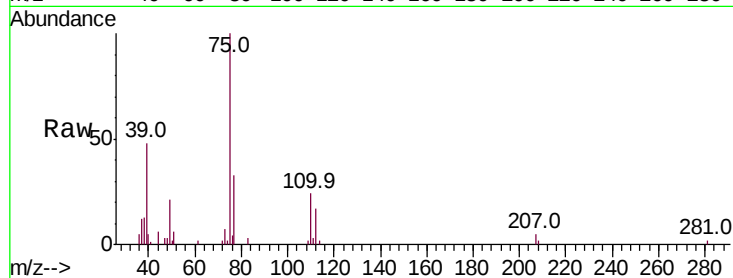
MDL-SOIL-03-QT4-2020

Tot Ion: 75 Resp: 9375

Ion Ratio Lower Upper

75 100

77 33.3 26.2 39.4



#54

cis-1,3-Dichloropropene

Concen: 2.513 ug/l

RT: 9.93 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

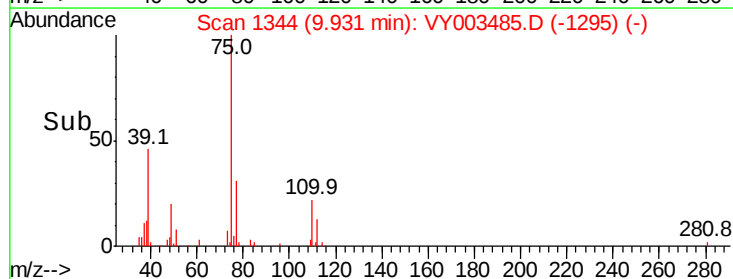
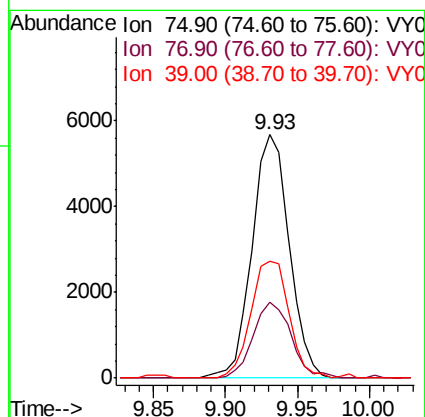
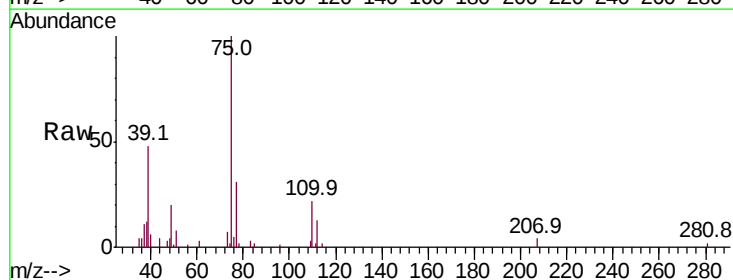
Tgt Ion: 75 Resp: 10126

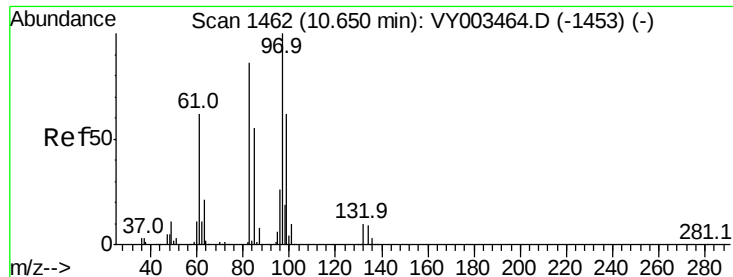
Ion Ratio Lower Upper

75 100

77 31.4 24.5 36.7

39 48.2 39.0 58.4



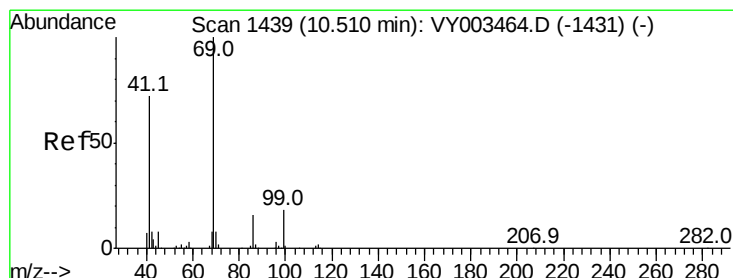
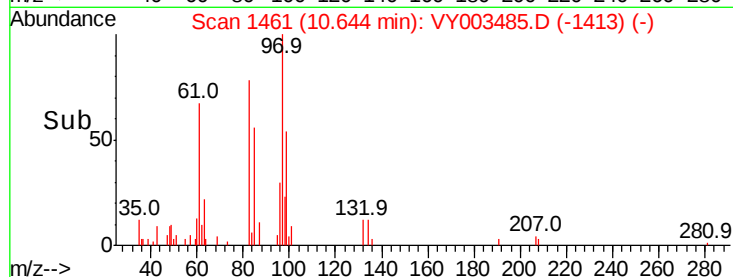
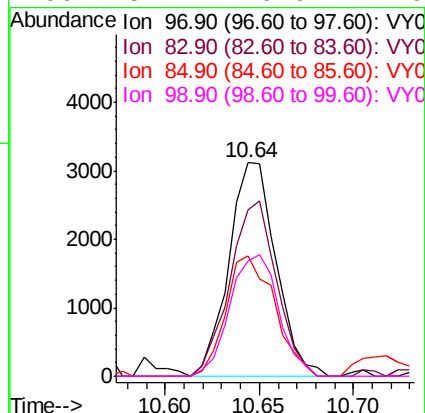
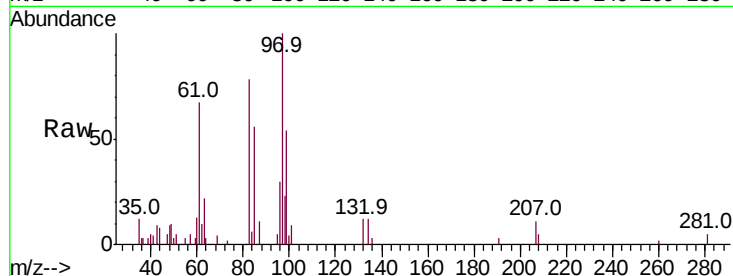


#55
 1,1,2-Trichloroethane
 Concen: 2.775 ug/l
 RT: 10.64 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

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

Tot Ion: 97 Resp: 5414

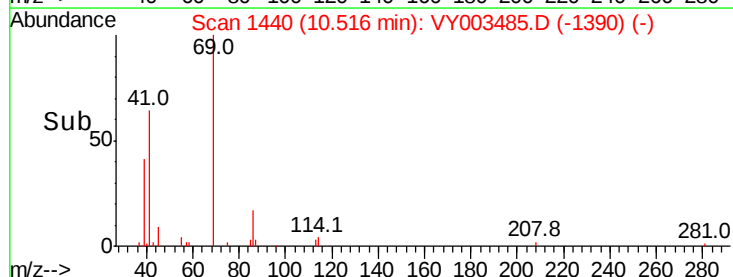
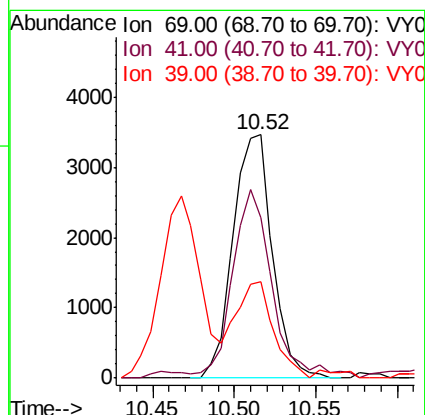
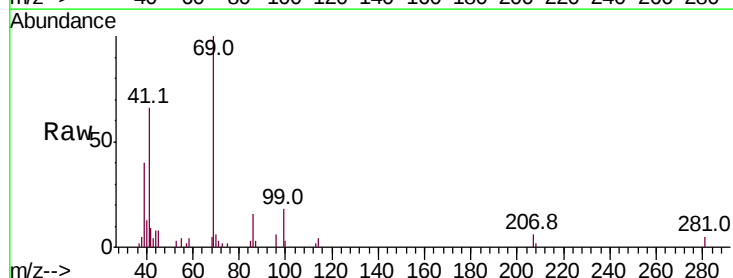
Ion	Ratio	Lower	Upper
97	100		
83	77.7	68.6	102.8
85	56.3	43.8	65.6
99	54.2	49.9	74.9

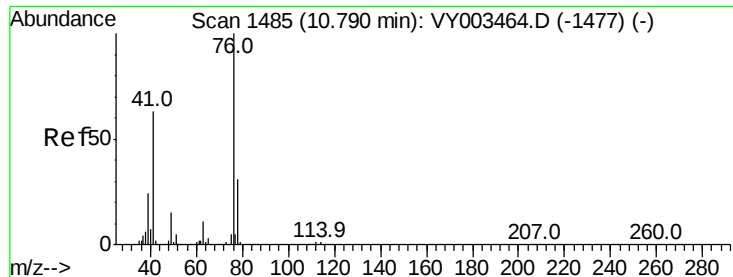


#56
 Ethyl methacrylate
 Concen: 2.229 ug/l
 RT: 10.52 min Scan# 1440
 Delta R.T. 0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion: 69 Resp: 5825

Ion	Ratio	Lower	Upper
69	100		
41	77.9	55.4	83.2
39	38.3	28.7	43.1





#57

1,3-Dichloropropane

Concen: 2.653 ug/l

RT: 10.79 min Scan# 1485

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

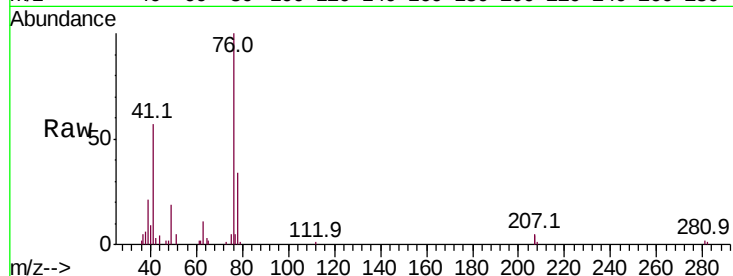
MDL-SOIL-03-QT4-2020

Tot Ion: 76 Resp: 9003

Ion Ratio Lower Upper

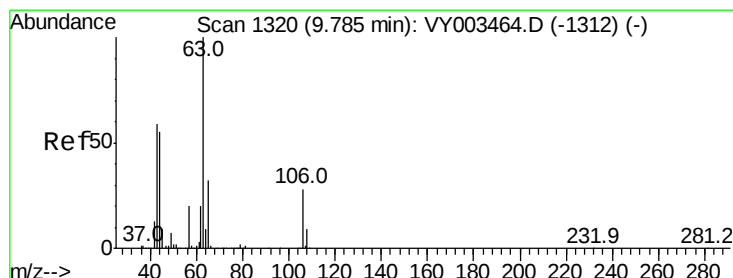
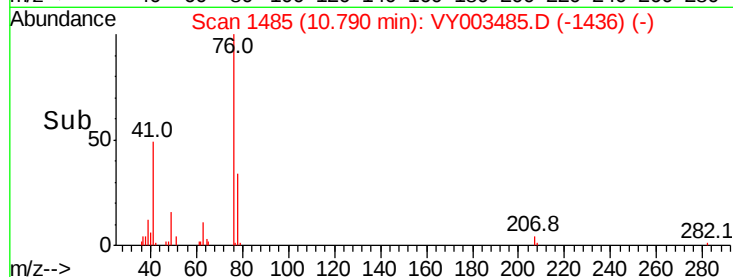
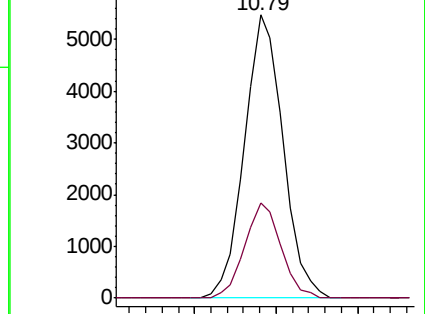
76 100

78 31.6 25.8 38.8



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#58

2-Chloroethyl Vinyl ether

Concen: 12.445 ug/l

RT: 9.78 min Scan# 1320

Delta R.T. -0.00 min

Lab File: VY003485.D

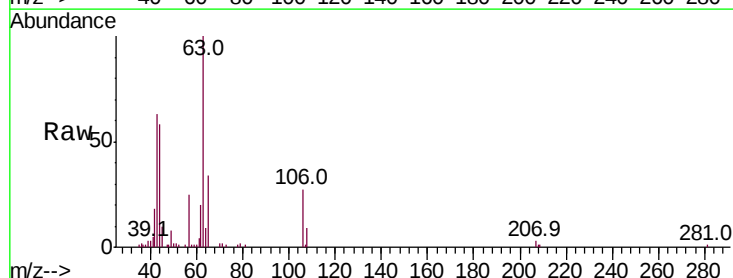
Acq: 03 Nov 2020 12:32

Tgt Ion: 63 Resp: 16489

Ion Ratio Lower Upper

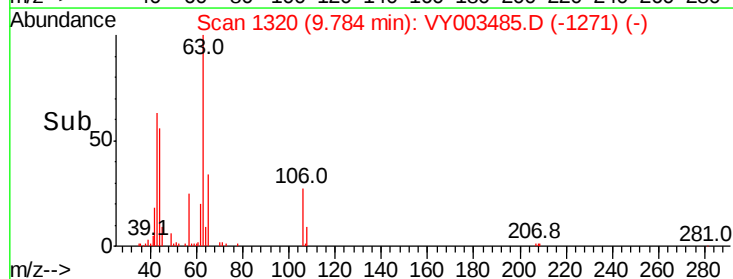
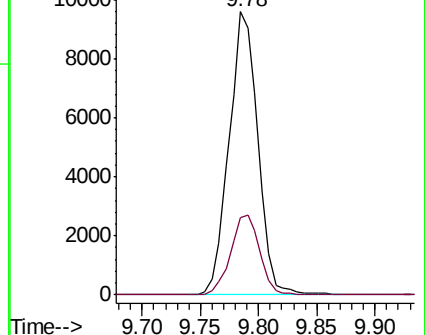
63 100

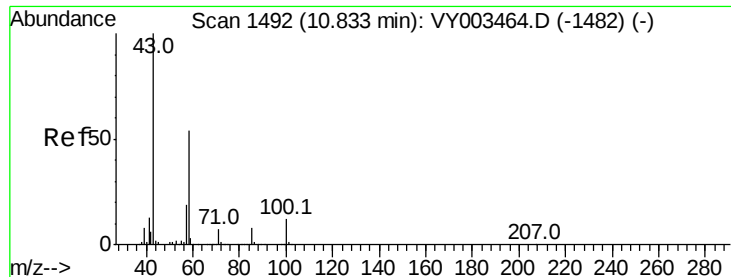
106 28.3 22.3 33.5



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 105.90 (105.60 to 106.60): V

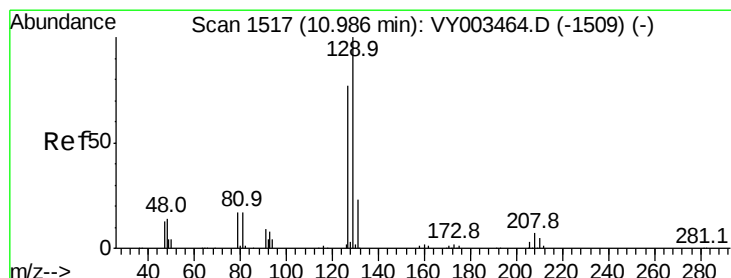
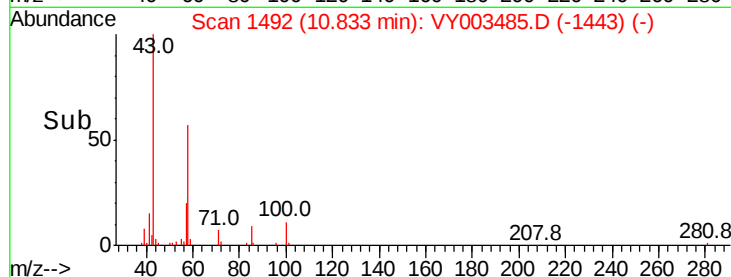
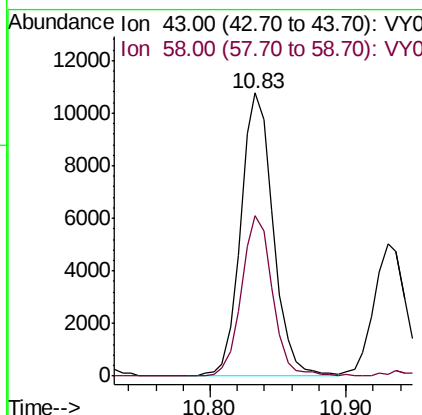
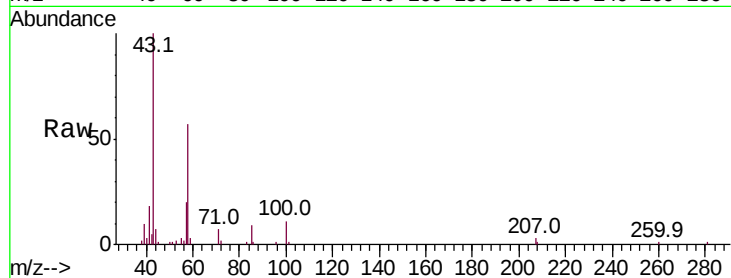




#59
2-Hexanone
Concen: 11.444 ug/l
RT: 10.83 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

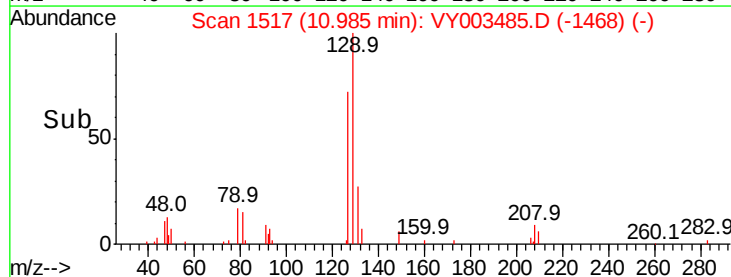
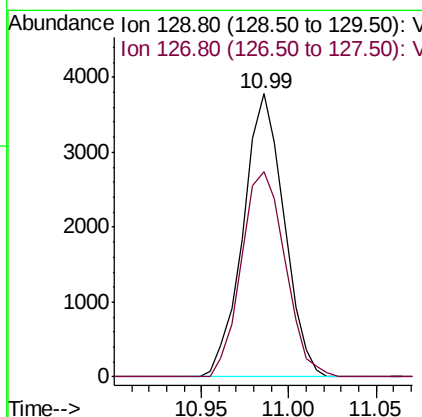
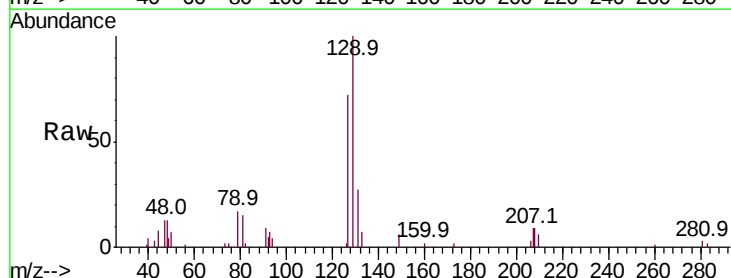
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

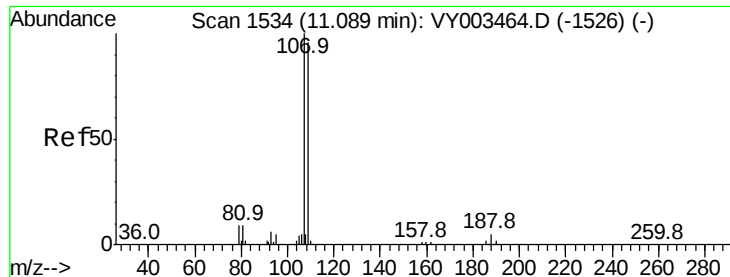
Tot Ion: 43 Resp: 17911
Ion Ratio Lower Upper
43 100
58 54.1 26.8 80.3



#60
Dibromochloromethane
Concen: 2.569 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 129 Resp: 6161
Ion Ratio Lower Upper
129 100
127 77.5 38.8 116.3

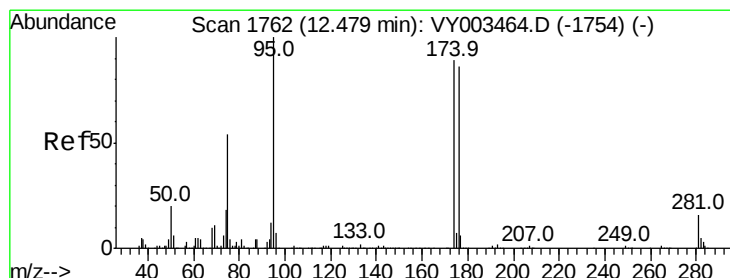
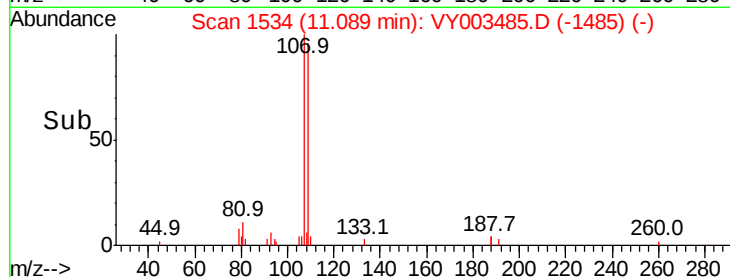
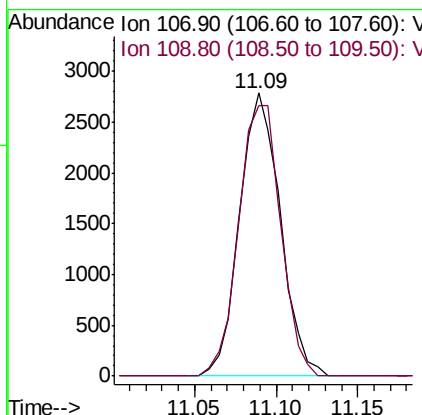
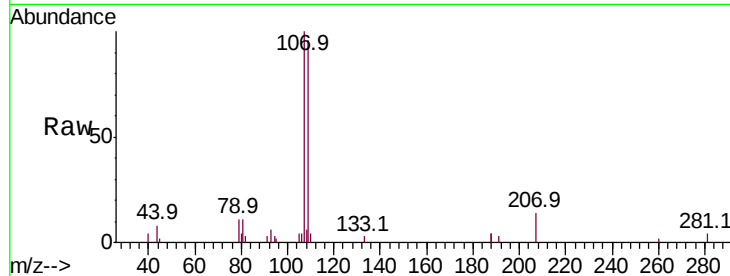




#61
 1,2-Dibromoethane
 Concen: 2.572 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

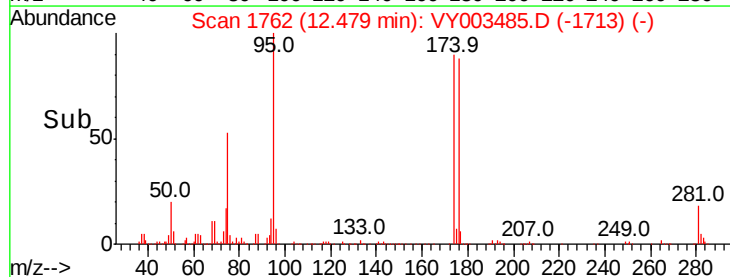
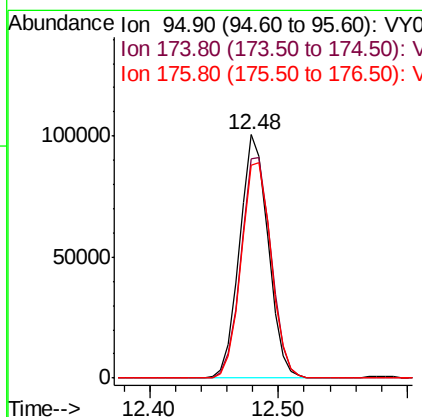
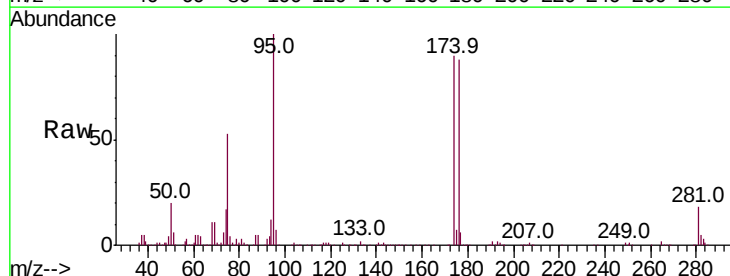
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

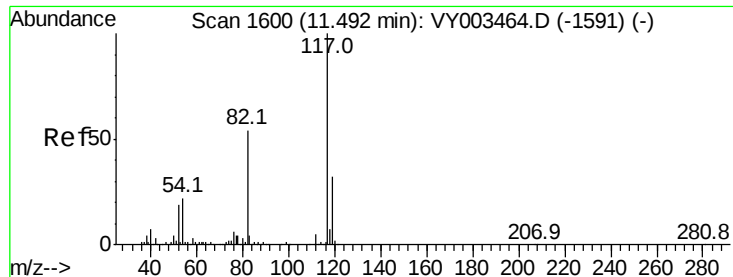
Tot Ion:107 Resp: 4845
 Ion Ratio Lower Upper
 107 100
 109 99.1 76.5 114.7



#62
 4-Bromofluorobenzene
 Concen: 48.765 ug/l
 RT: 12.48 min Scan# 1762
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion: 95 Resp: 154233
 Ion Ratio Lower Upper
 95 100
 174 95.1 0.0 193.0
 176 92.6 0.0 187.4

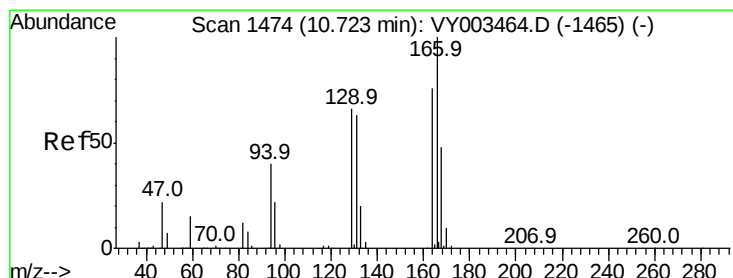
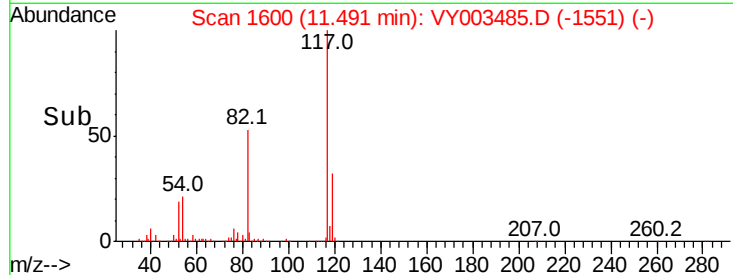
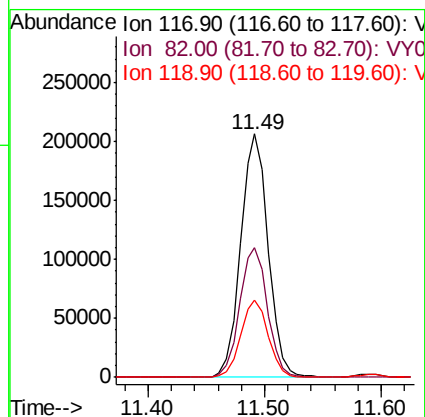
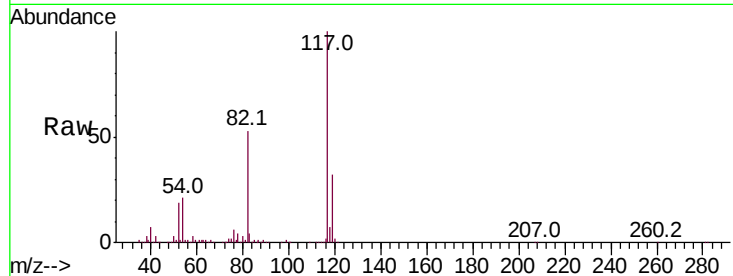




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

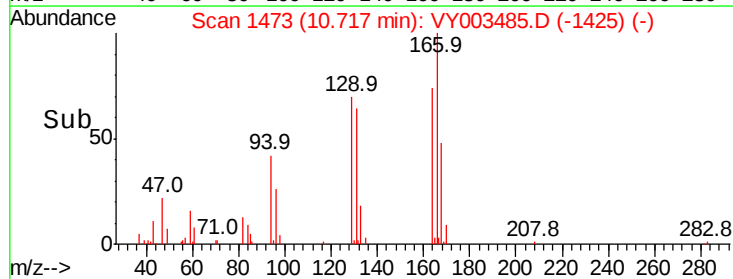
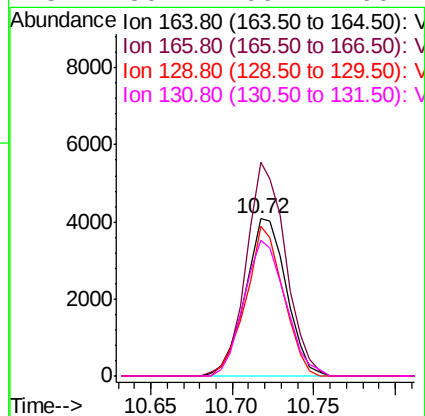
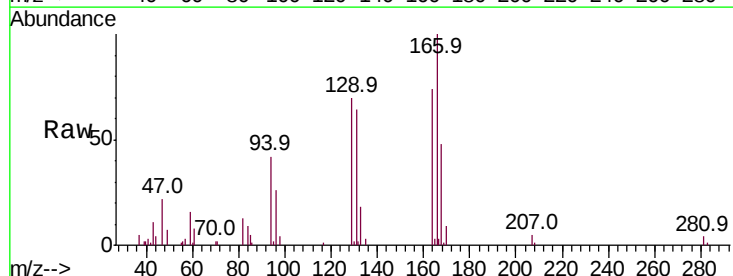
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

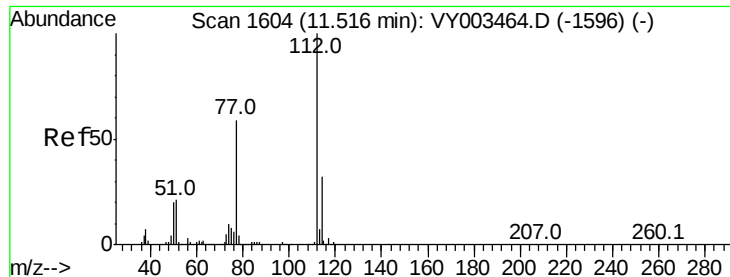
Tot Ion:117 Resp: 338369
Ion Ratio Lower Upper
117 100
82 53.4 43.4 65.2
119 31.9 25.8 38.6



#64
Tetrachloroethene
Concen: 2.833 ug/l
RT: 10.72 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion:164 Resp: 7158
Ion Ratio Lower Upper
164 100
166 136.0 104.9 157.3
129 95.2 68.9 103.3
131 86.4 66.2 99.2





#65

Chlorobenzene

Concen: 2.681 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

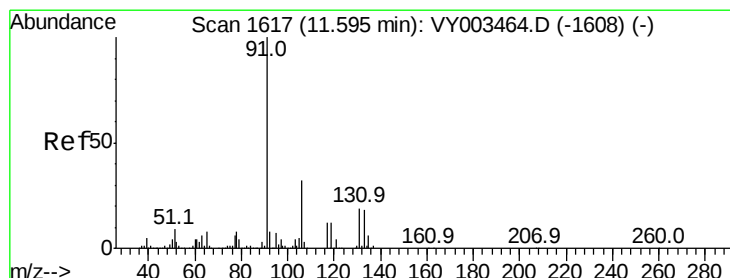
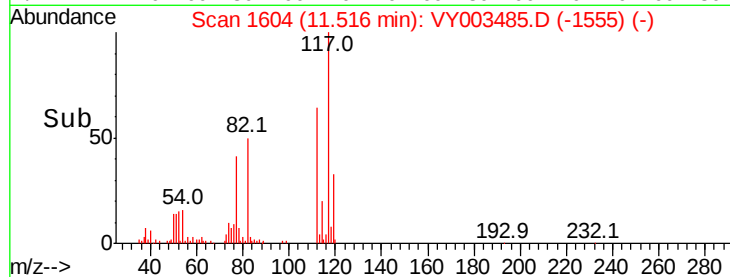
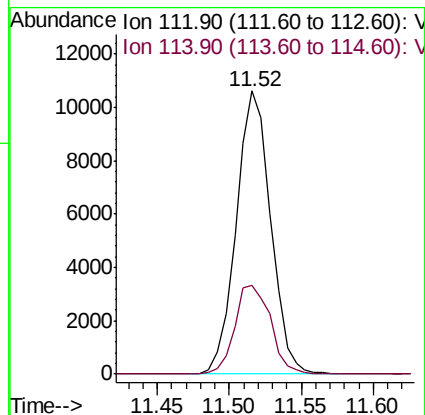
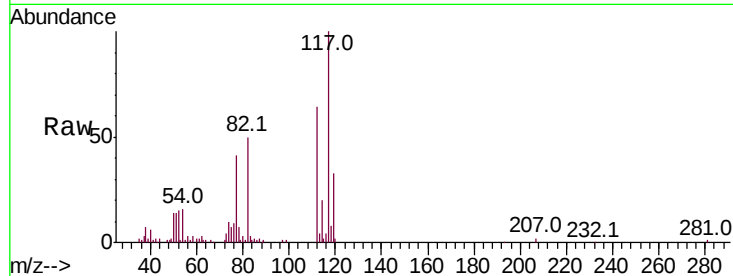
MDL-SOIL-03-QT4-2020

Tot Ion:112 Resp: 17621

Ion Ratio Lower Upper

112 100

114 31.3 25.5 38.3



#66

1,1,1,2-Tetrachloroethane

Concen: 2.556 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

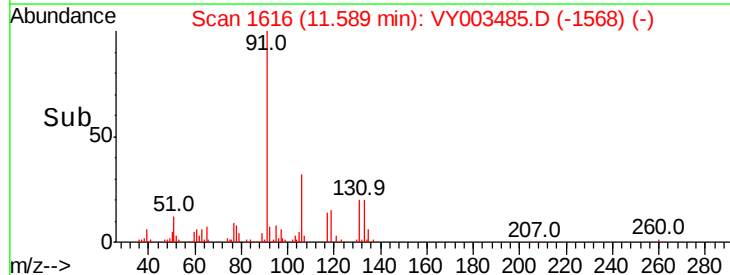
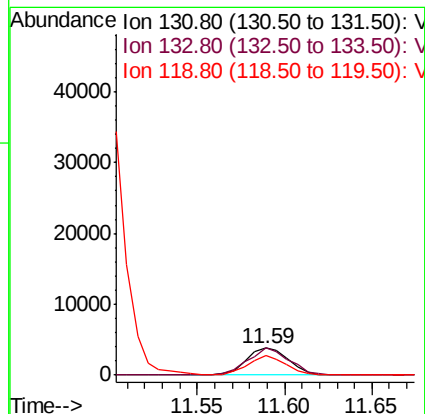
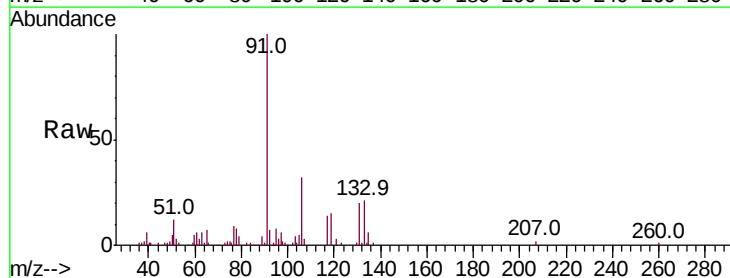
Tgt Ion:131 Resp: 6336

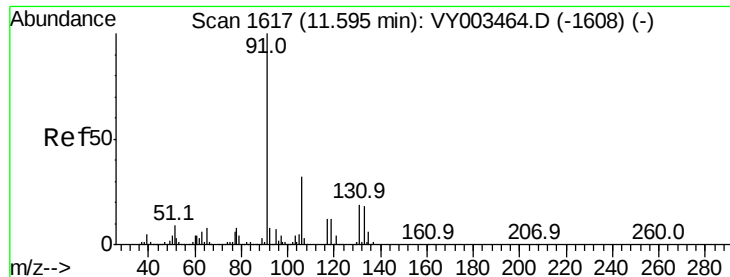
Ion Ratio Lower Upper

131 100

133 101.4 47.4 142.2

119 66.1 31.6 95.0





#67

Ethyl Benzene

Concen: 2.566 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

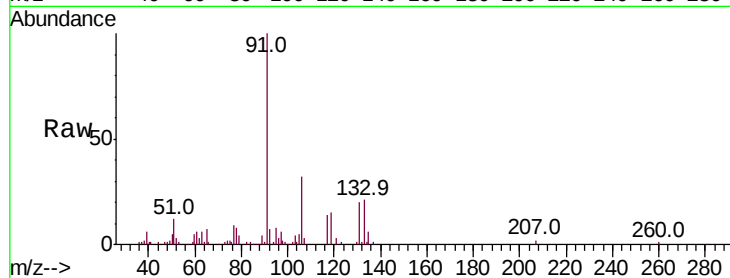
MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 30582

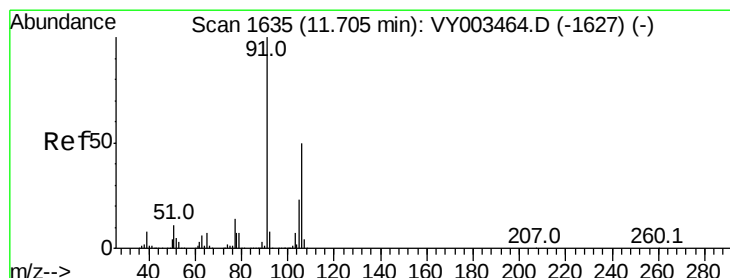
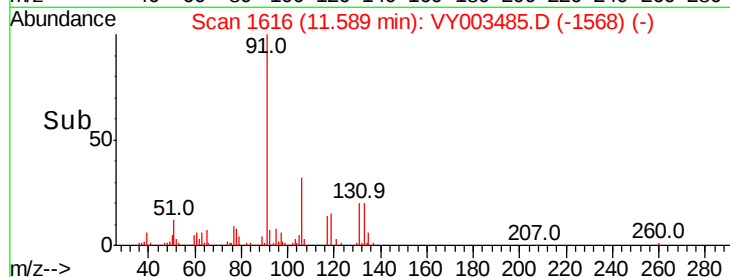
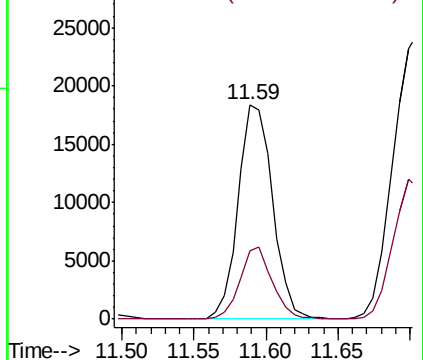
Ion Ratio Lower Upper

91 100

106 32.0 25.4 38.0



Abundance Ion 91.00 (90.70 to 91.70): VY003464.D (-1608) (-)



#68

m/p-Xylenes

Concen: 5.080 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VY003485.D

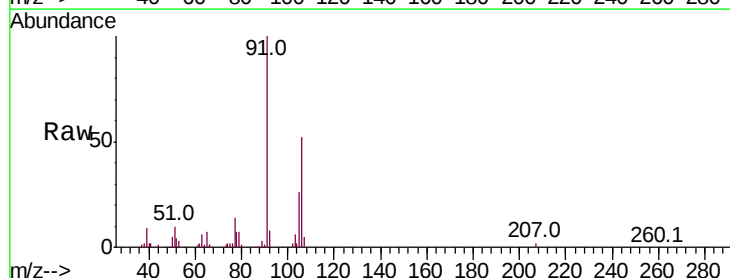
Acq: 03 Nov 2020 12:32

Tgt Ion: 106 Resp: 22947

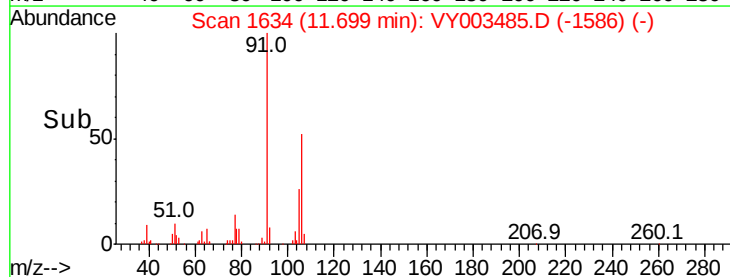
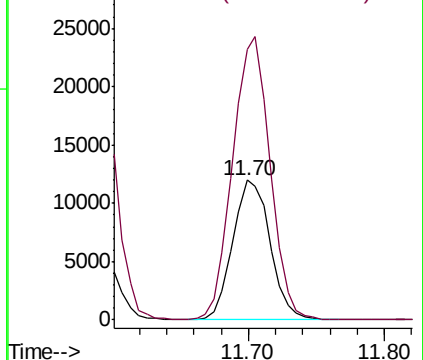
Ion Ratio Lower Upper

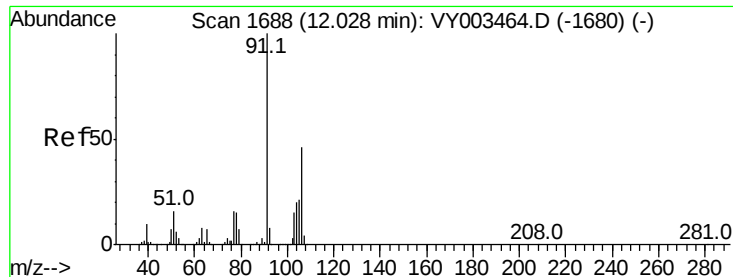
106 100

91 203.4 161.0 241.6



Abundance Ion 106.00 (105.70 to 106.70): VY003464.D (-1627) (-)

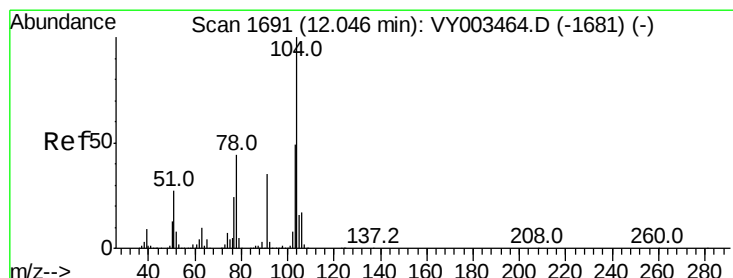
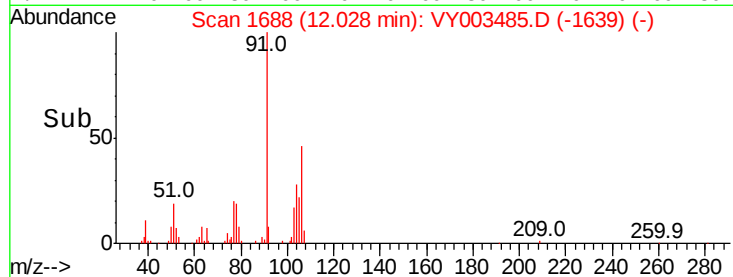
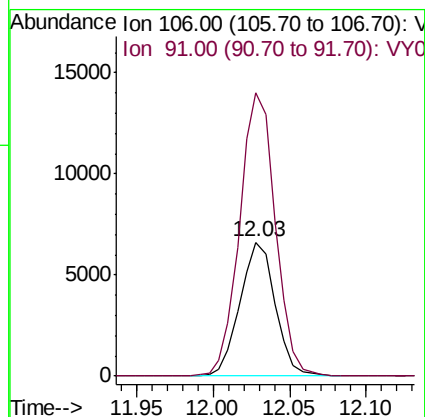
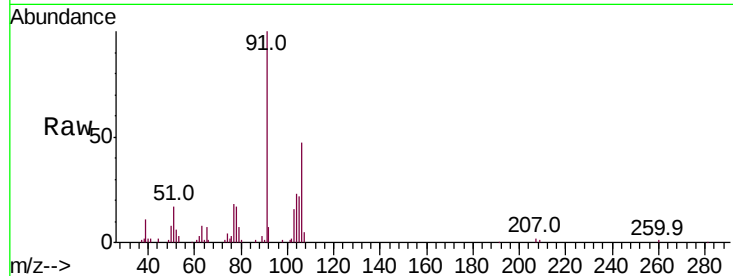




#69
o-Xylene
Concen: 2.559 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

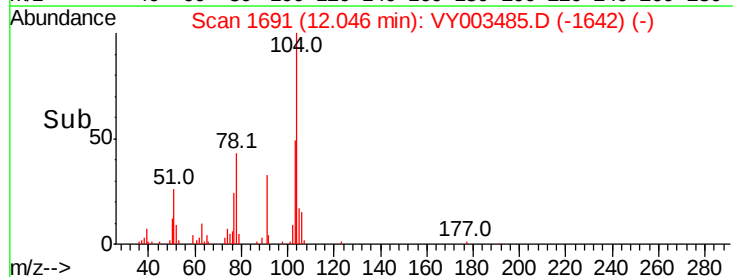
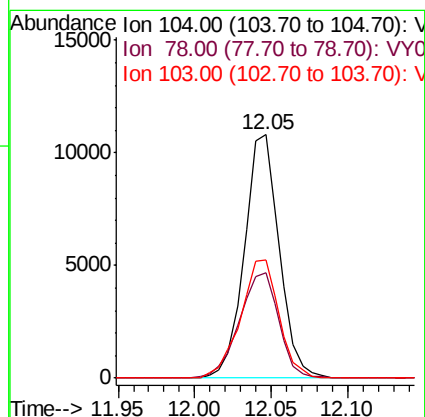
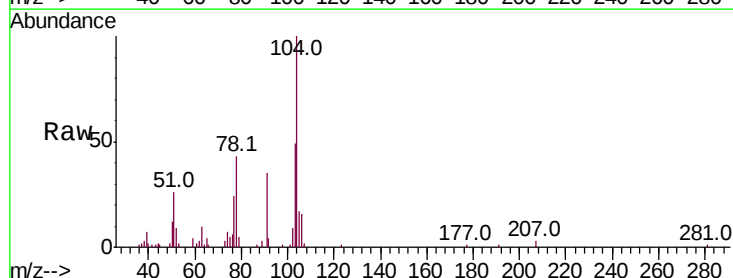
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

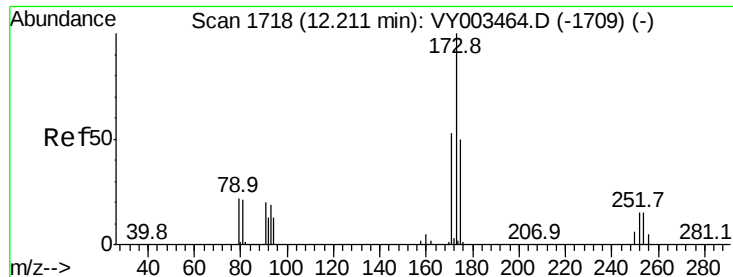
Tot Ion:106 Resp: 10633
Ion Ratio Lower Upper
106 100
91 212.8 105.5 316.5



#70
Styrene
Concen: 2.419 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion:104 Resp: 17069
Ion Ratio Lower Upper
104 100
78 49.0 39.5 59.3
103 53.5 44.2 66.2





#71

Bromoform

Concen: 2.353 ug/l

RT: 12.21 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

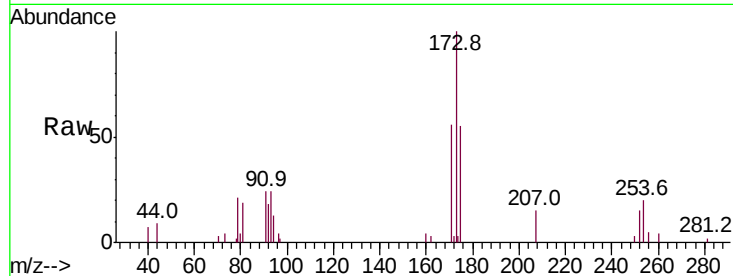
Tot Ion:173 Resp: 3888

Ion Ratio Lower Upper

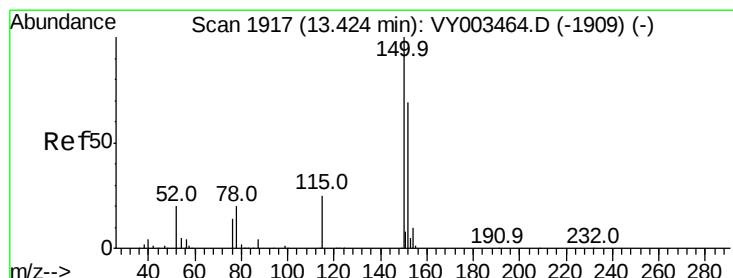
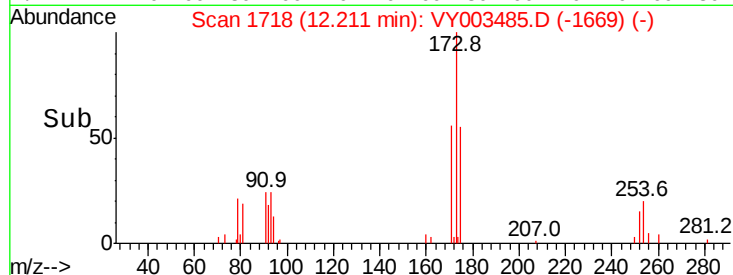
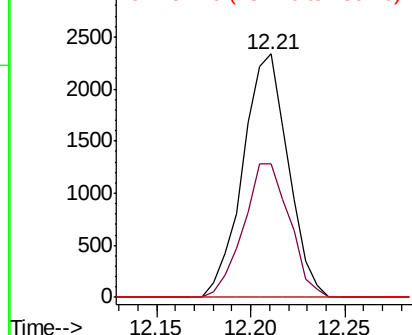
173 100

175 56.0 24.7 74.1

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

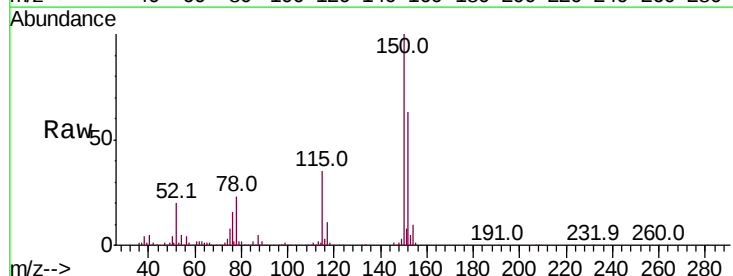
Tgt Ion:152 Resp: 168780

Ion Ratio Lower Upper

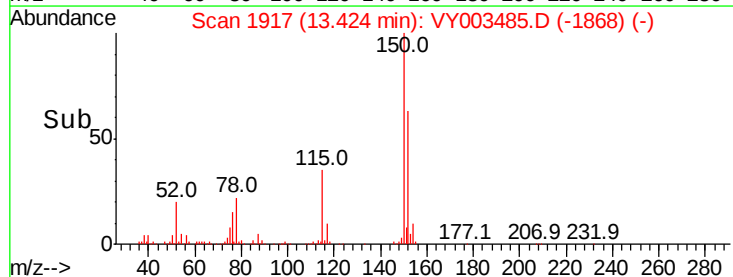
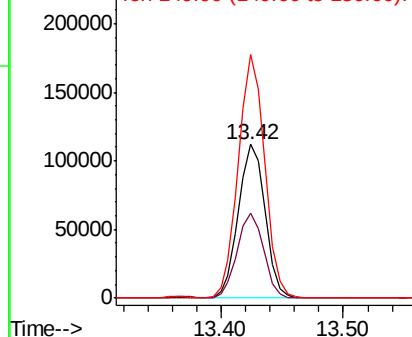
152 100

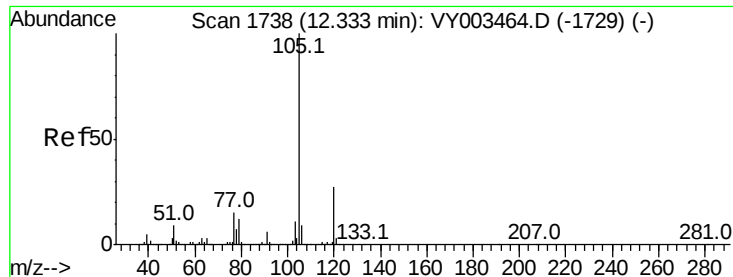
115 54.7 27.5 82.4

150 156.3 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.567 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

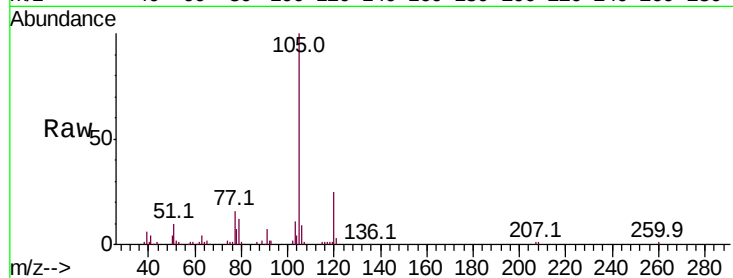
MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 28306

Ion Ratio Lower Upper

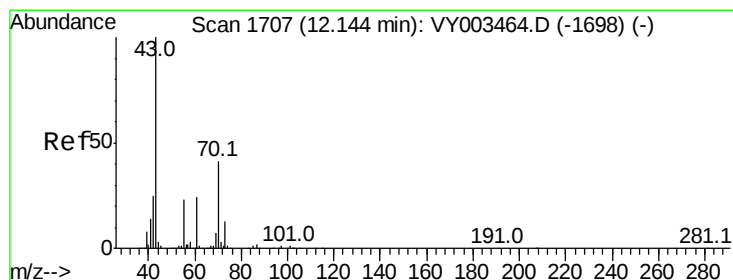
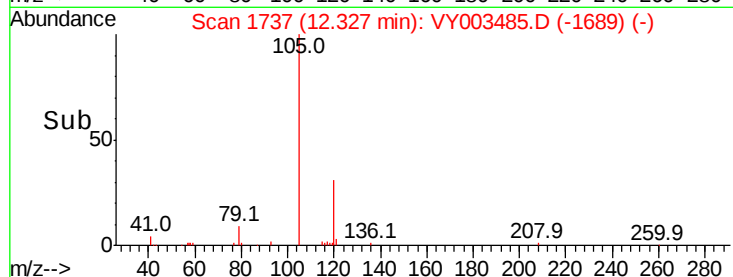
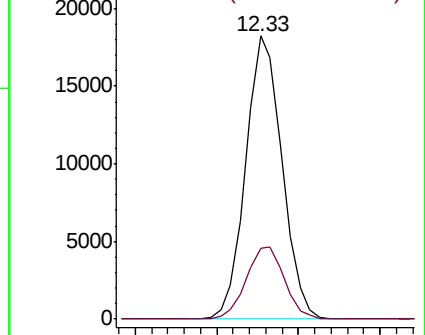
105 100

120 26.8 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: 2.536 ug/l

RT: 12.14 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Tgt Ion: 43 Resp: 7919

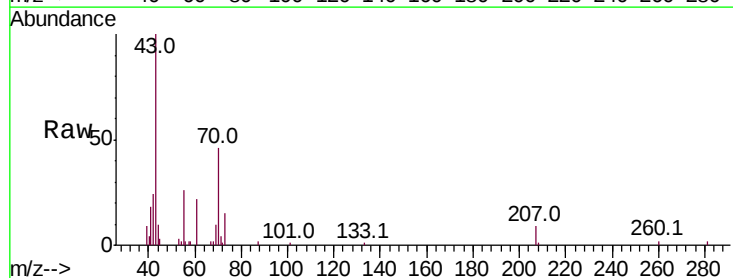
Ion Ratio Lower Upper

43 100

70 40.7 33.1 49.7

55 26.4 19.2 28.8

61 21.7 19.0 28.6

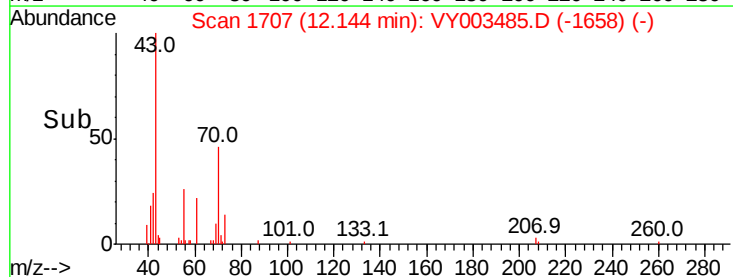
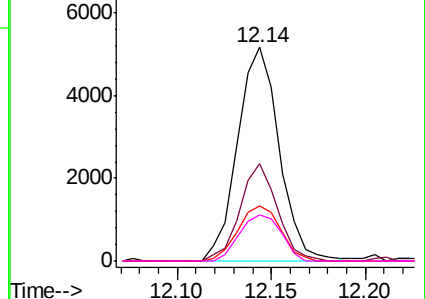


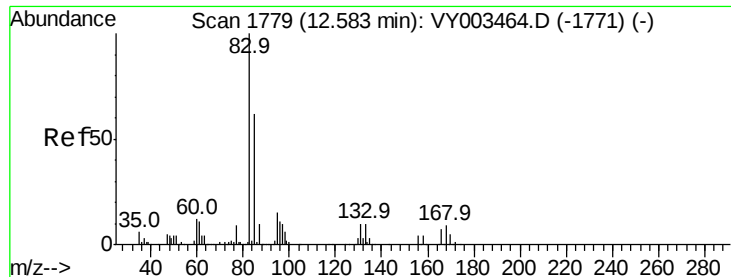
Abundance Ion 43.00 (42.70 to 43.70): VY0

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: 2.765 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

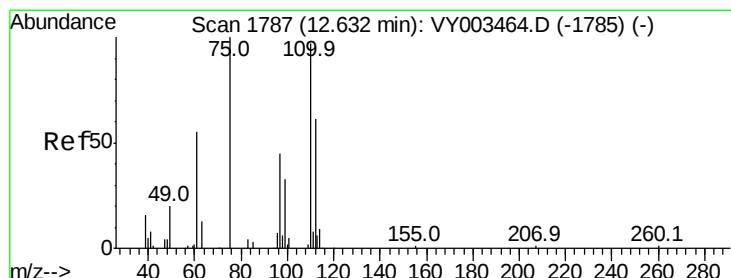
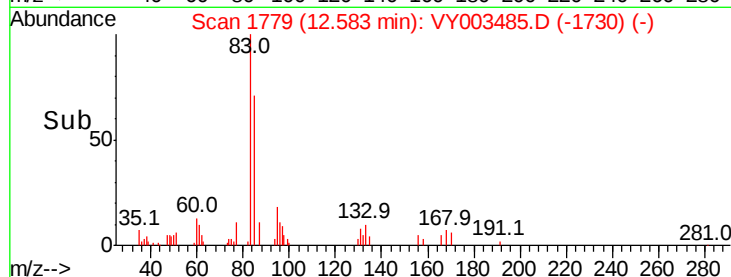
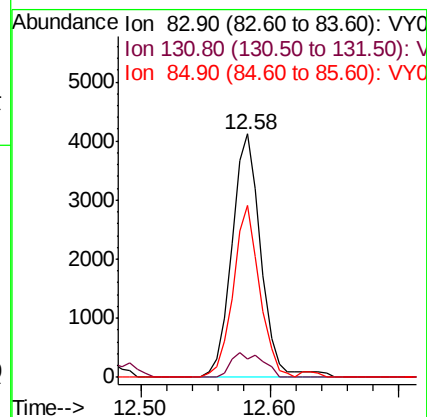
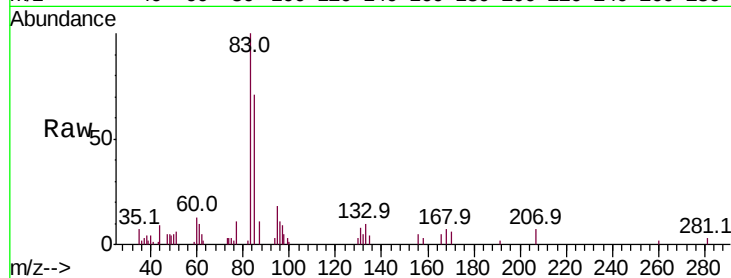
Tot Ion: 83 Resp: 6511

Ion Ratio Lower Upper

83 100

131 10.9 5.4 16.2

85 64.0 32.0 96.2



#76

1,2,3-Trichloropropane

Concen: 4.789 ug/l

RT: 12.63 min Scan# 1786

Delta R.T. -0.01 min

Lab File: VY003485.D

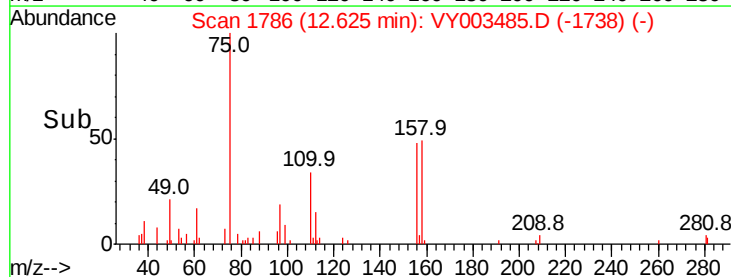
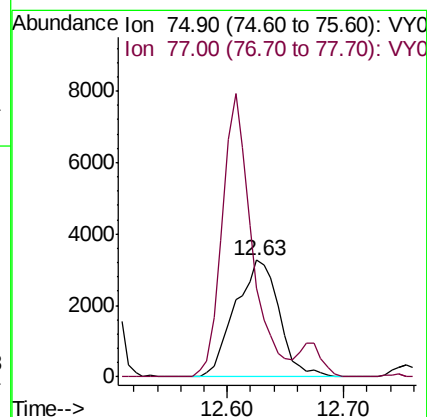
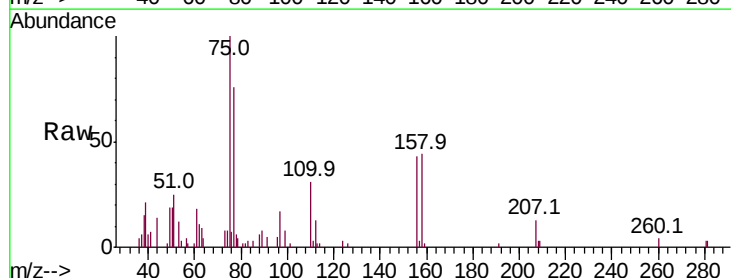
Acq: 03 Nov 2020 12:32

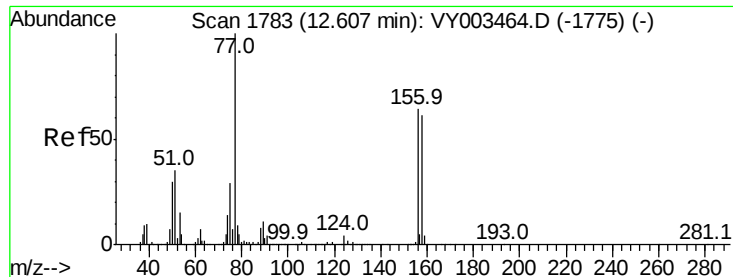
Tgt Ion: 75 Resp: 8553

Ion Ratio Lower Upper

75 100

77 163.5 0.0 0.0#





#77

Bromobenzene

Concen: 2.681 ug/l

RT: 12.61 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

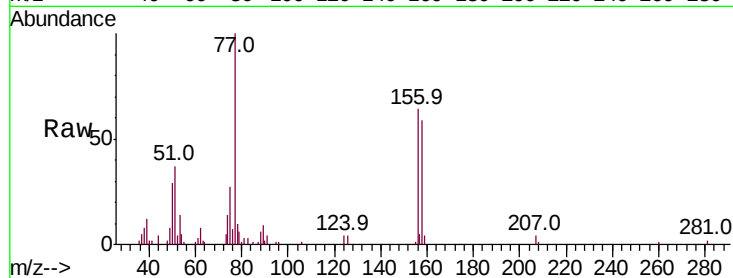
Tot Ion:156 Resp: 7510

Ion Ratio Lower Upper

156 100

77 186.3 87.0 260.9

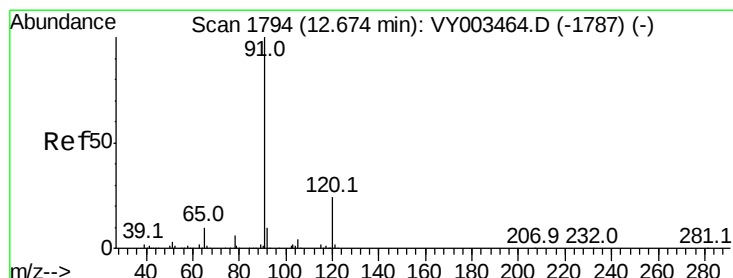
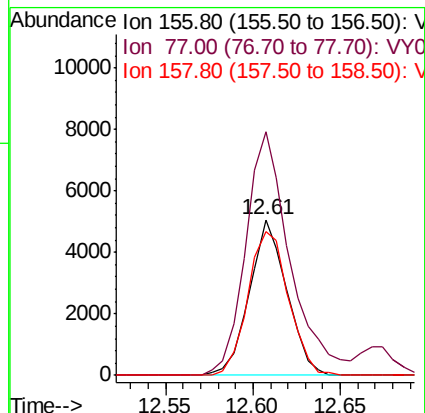
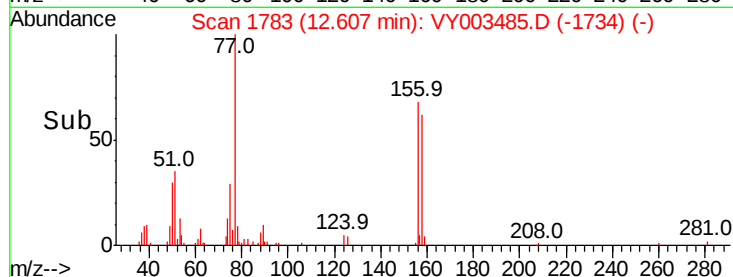
158 100.2 48.7 146.1



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.797 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VY003485.D

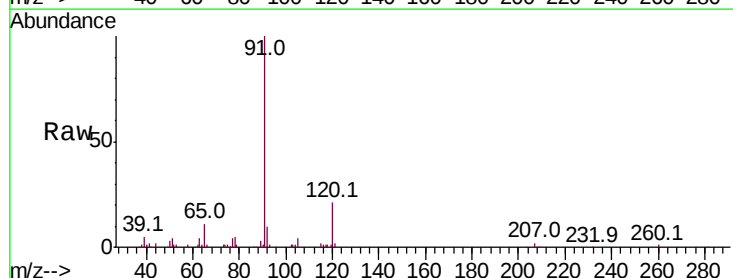
Acq: 03 Nov 2020 12:32

Tgt Ion: 91 Resp: 36324

Ion Ratio Lower Upper

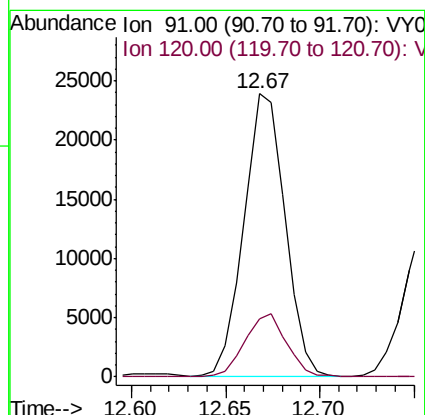
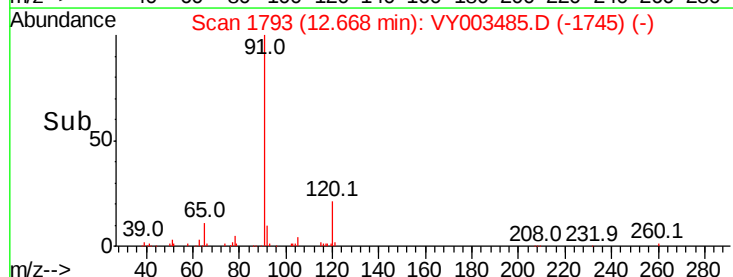
91 100

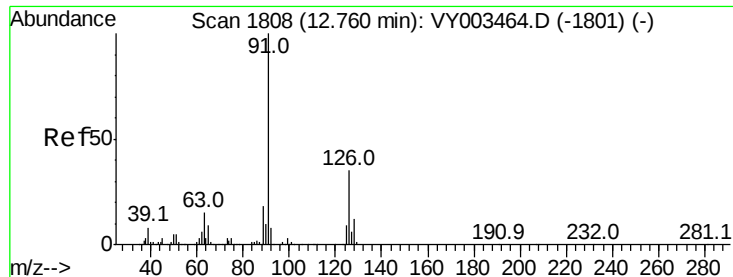
120 22.3 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V

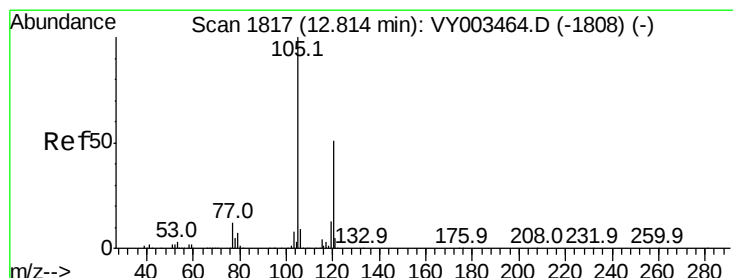
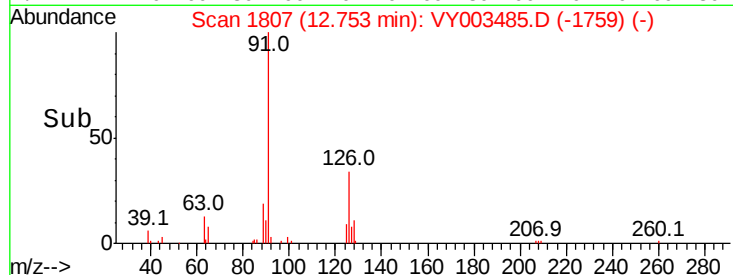
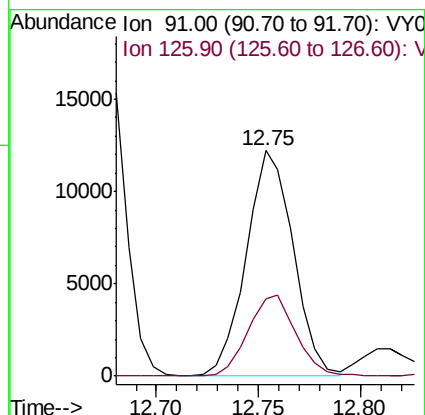
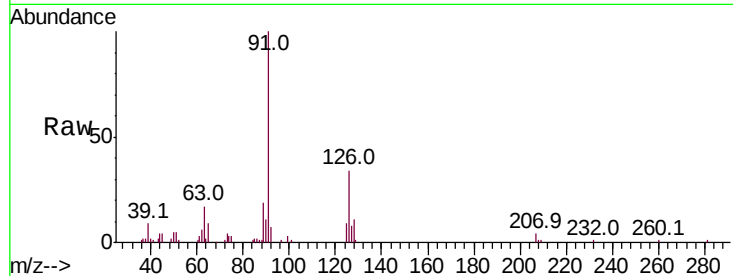




#79
 2-Chlorotoluene
 Concen: 2.708 ug/l
 RT: 12.75 min Scan# 1807
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

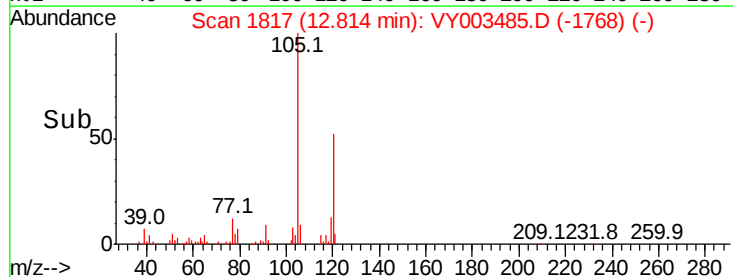
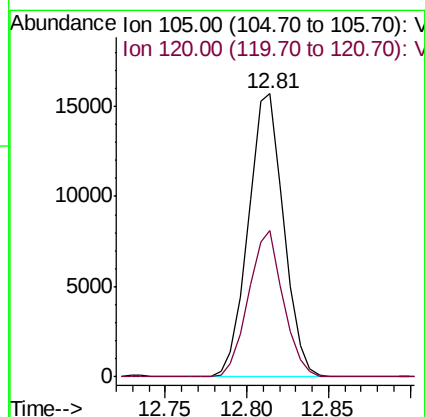
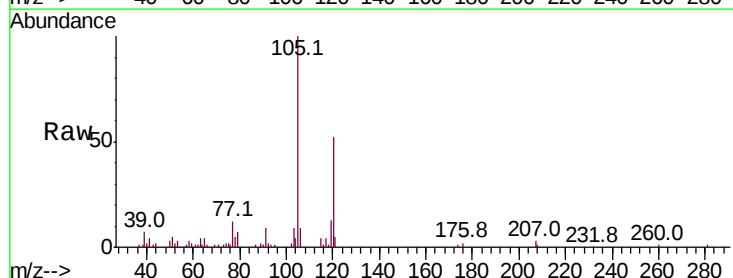
Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

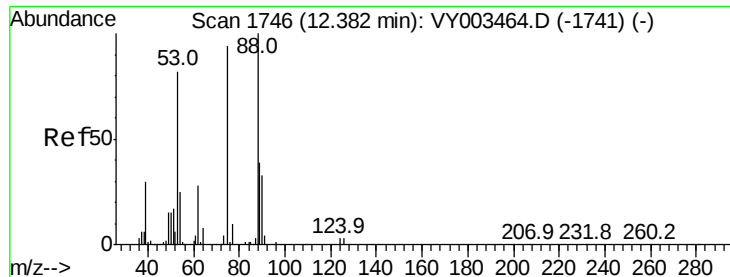
Tot Ion: 91 Resp: 19645
 Ion Ratio Lower Upper
 91 100
 126 36.2 17.8 53.3



#80
 1,3,5-Trimethylbenzene
 Concen: 2.595 ug/l
 RT: 12.81 min Scan# 1817
 Delta R.T. -0.00 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion: 105 Resp: 23704
 Ion Ratio Lower Upper
 105 100
 120 50.6 25.3 75.9





#81

trans-1,4-Dichloro-2-butene

Concen: 96.642 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

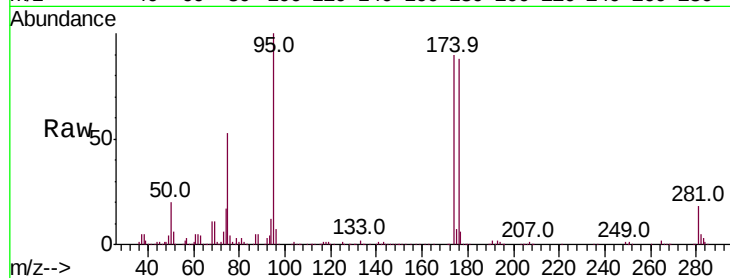
Tot Ion: 75 Resp: 82688

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

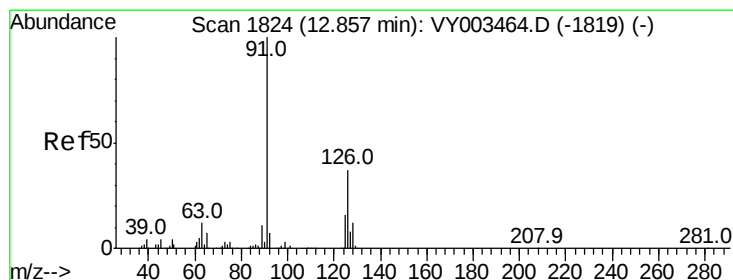
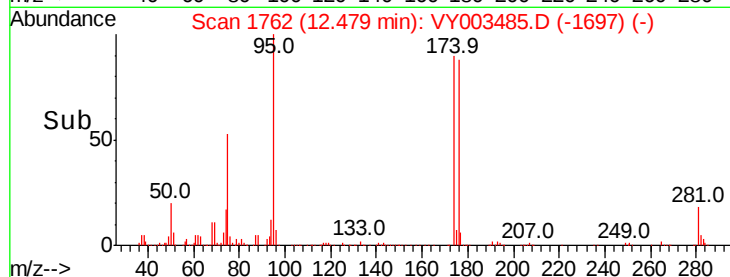
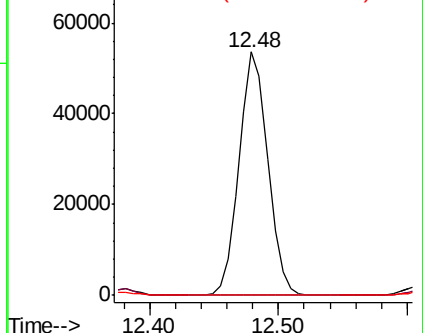
89 0.1 35.8 53.8#



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: 2.770 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. -0.01 min

Lab File: VY003485.D

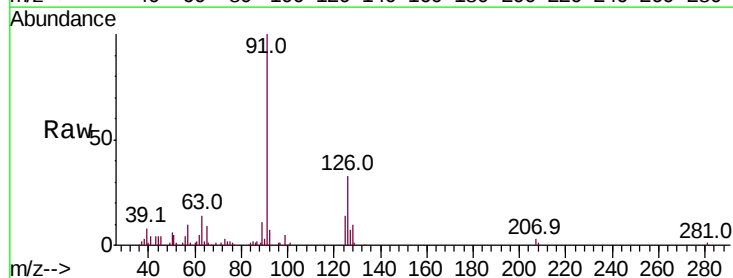
Acq: 03 Nov 2020 12:32

Tgt Ion: 91 Resp: 21003

Ion Ratio Lower Upper

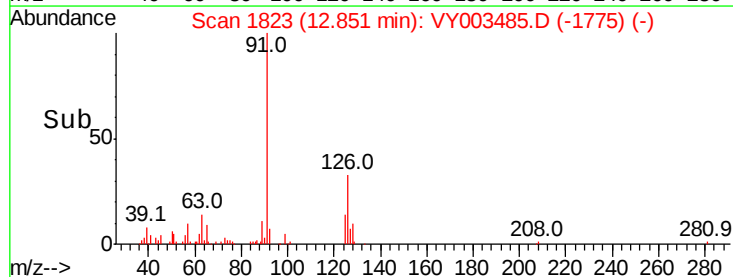
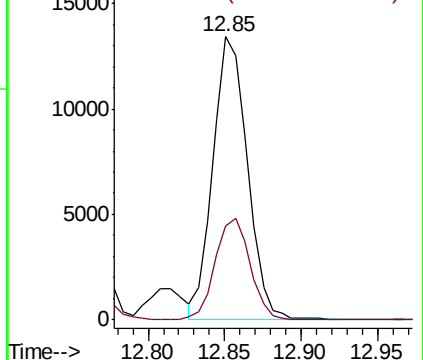
91 100

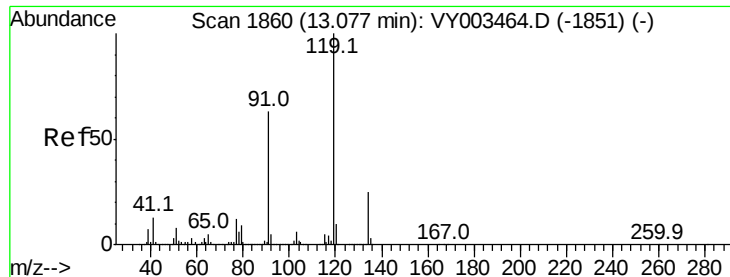
126 36.1 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 125.90 (125.60 to 126.60): V

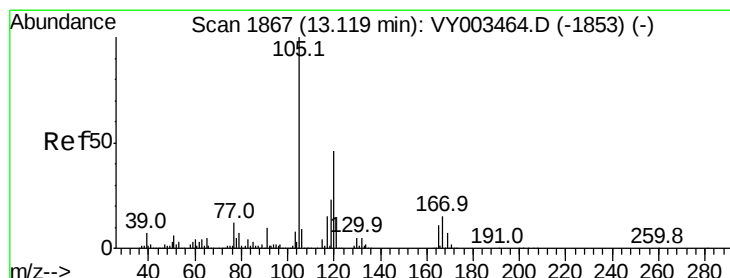
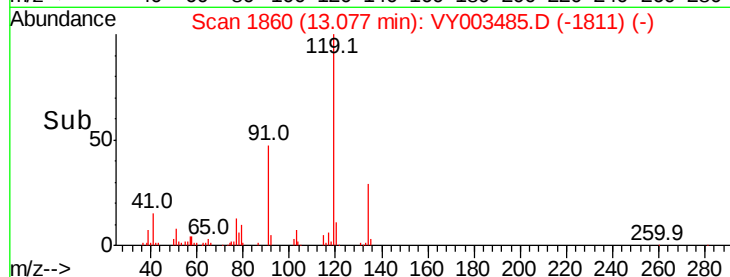
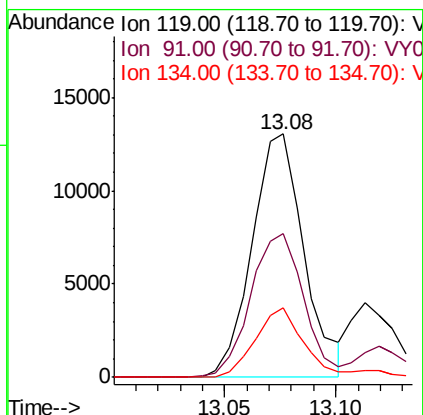
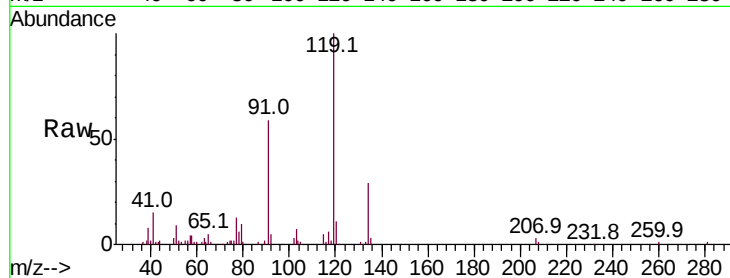




#83
tert-Butylbenzene
Concen: 2.612 ug/l
RT: 13.08 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

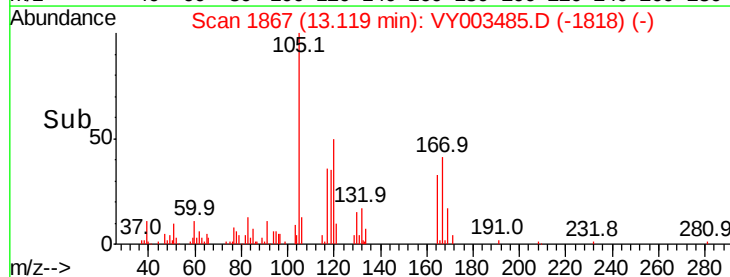
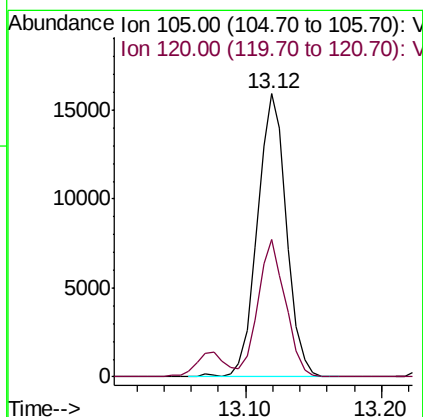
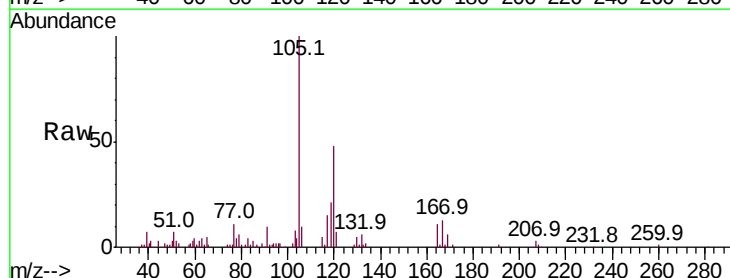
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

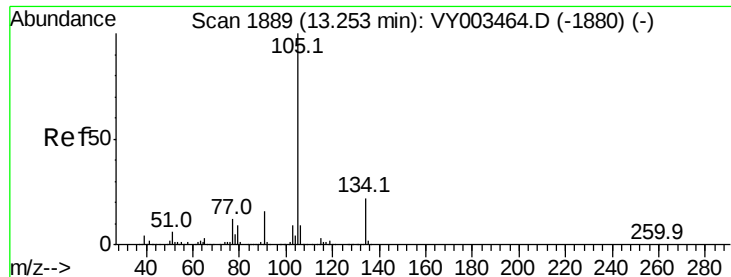
Tot Ion	Ratio	Lower	Upper
119	100		
91	60.2	31.1	93.2
134	26.7	13.4	40.1



#84
1,2,4-Trimethylbenzene
Concen: 2.615 ug/l
RT: 13.12 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.9	68.8





#85

sec-Butylbenzene

Concen: 2.606 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

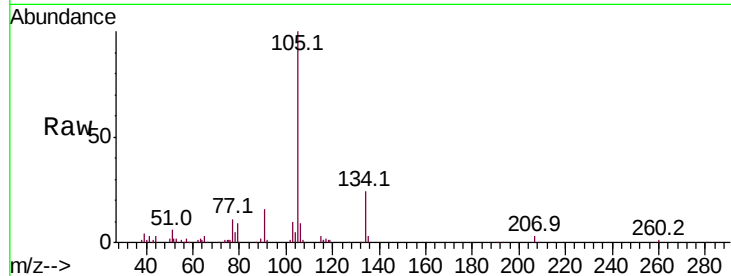
MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 28584

Ion Ratio Lower Upper

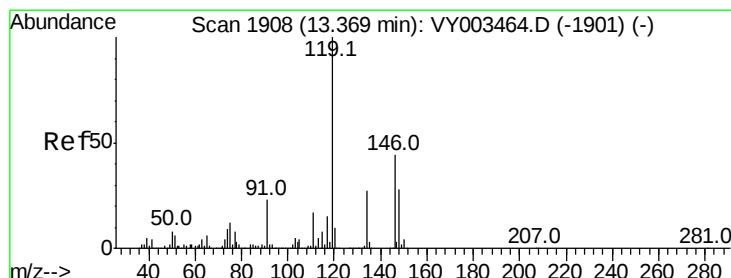
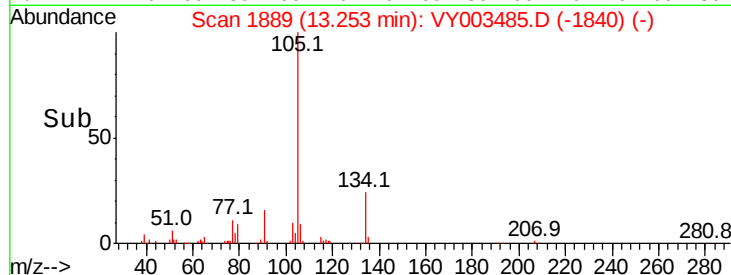
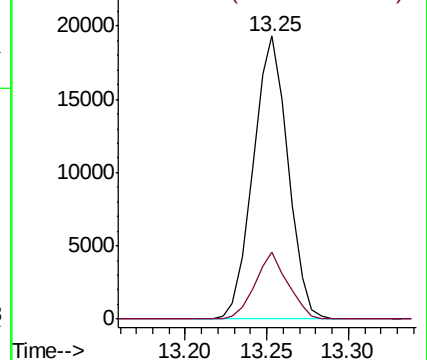
105 100

134 22.4 10.6 31.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.615 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

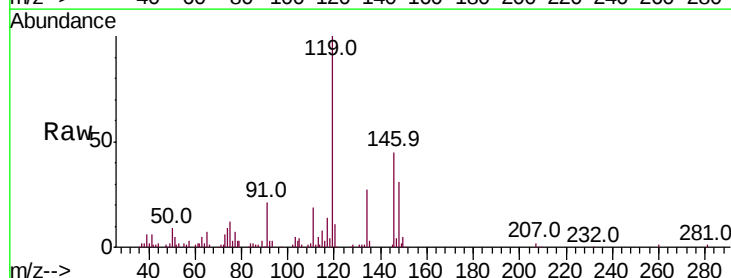
Tgt Ion:119 Resp: 26601

Ion Ratio Lower Upper

119 100

134 27.8 13.6 40.7

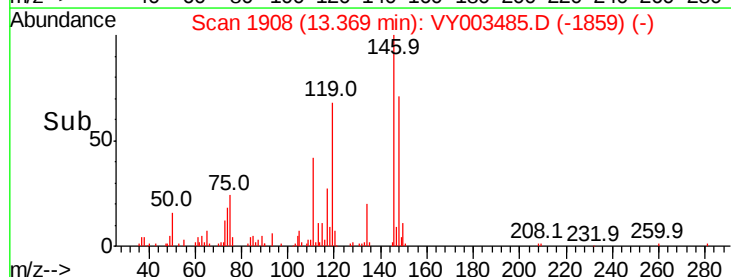
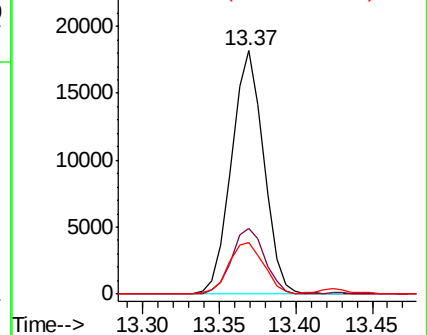
91 22.9 11.4 34.2

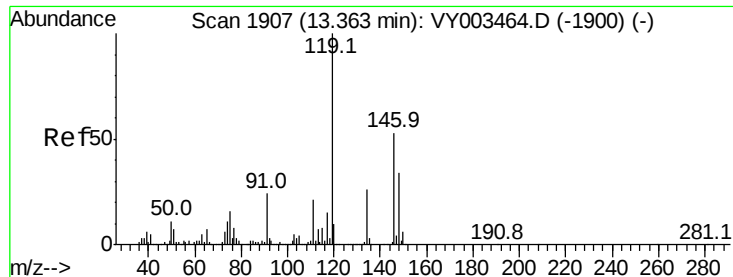


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0





#87

1,3-Dichlorobenzene

Concen: 2.801 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

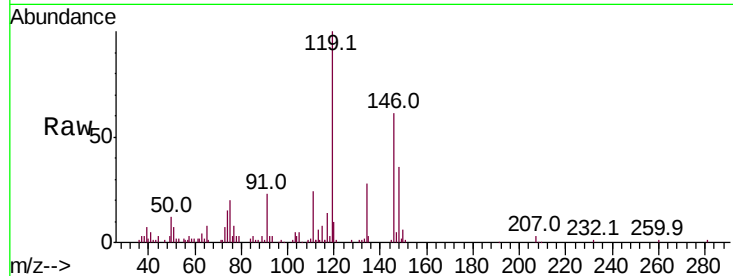
Tot Ion:146 Resp: 14617

Ion Ratio Lower Upper

146 100

111 38.2 19.1 57.1

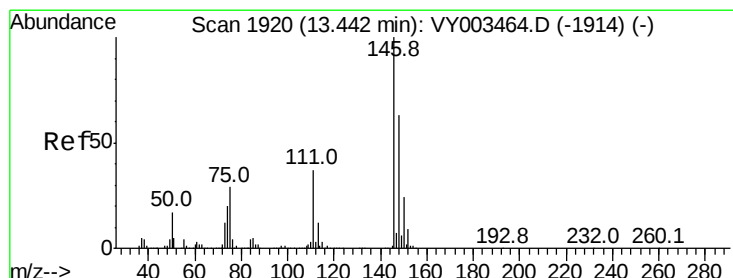
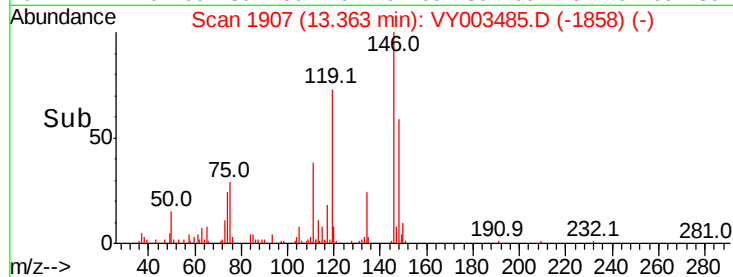
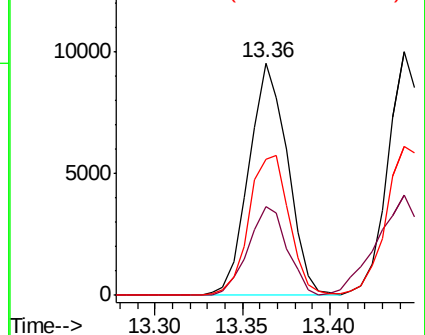
148 62.9 32.4 97.0



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



#88

1,4-Dichlorobenzene

Concen: 2.942 ug/l

RT: 13.44 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

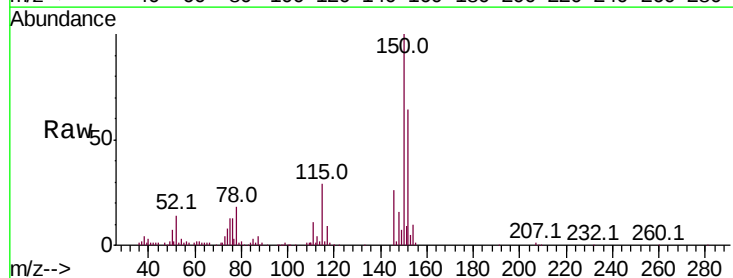
Tgt Ion:146 Resp: 15266

Ion Ratio Lower Upper

146 100

111 50.0 18.3 54.8

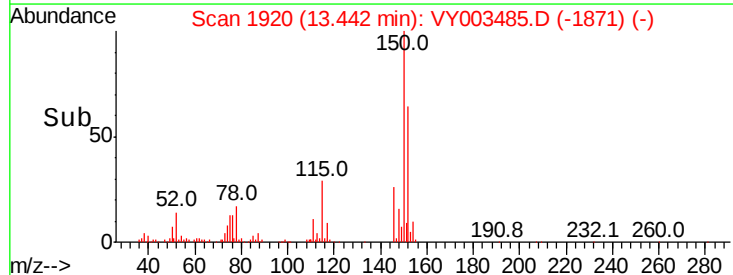
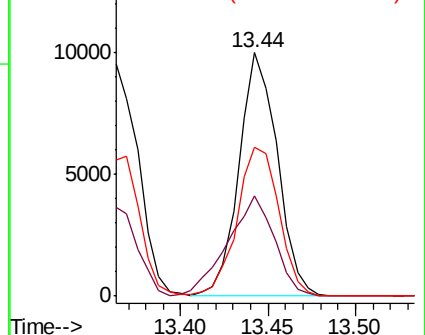
148 66.5 32.0 96.0

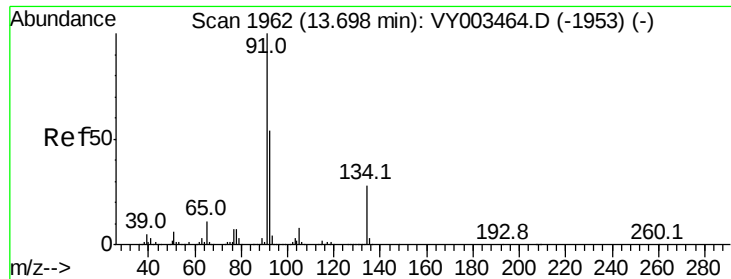


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

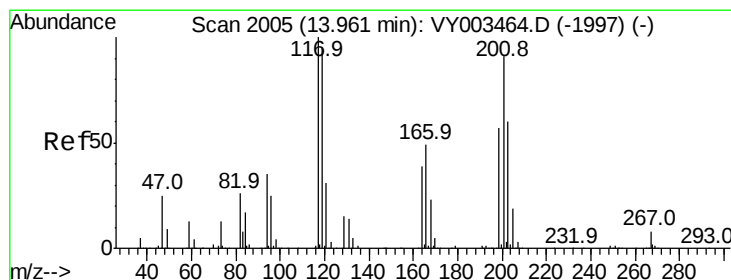
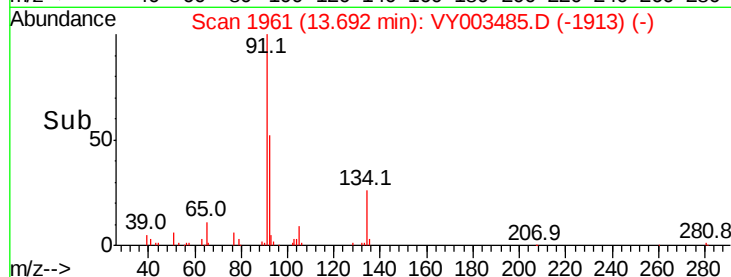
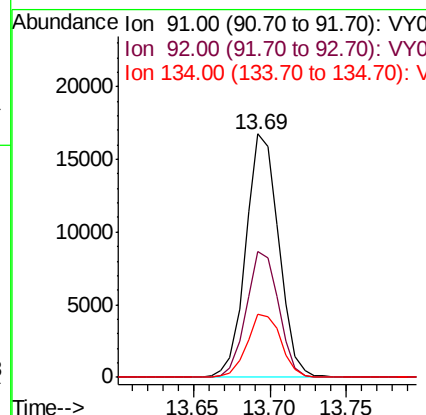
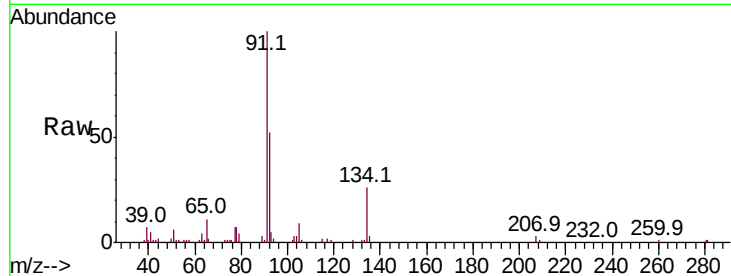




#89
n-Butylbenzene
Concen: 2.683 ug/l
RT: 13.69 min Scan# 1961
Delta R.T. -0.01 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

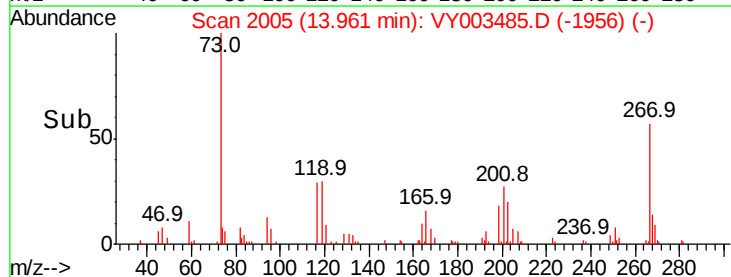
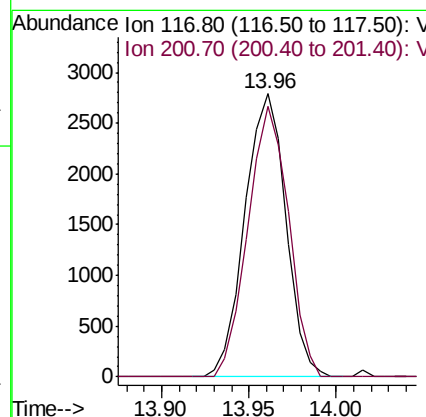
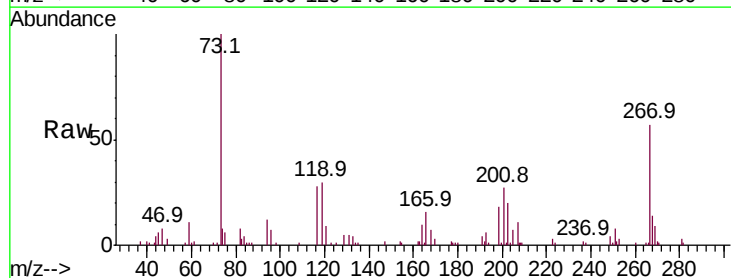
Instrument :
MSVOA_Y
ClientSampleId :
MDL-SOIL-03-QT4-2020

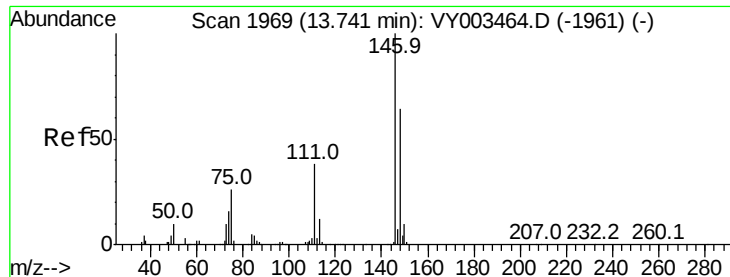
Tot Ion: 91 Resp: 24936
Ion Ratio Lower Upper
91 100
92 50.8 26.7 80.1
134 26.8 13.8 41.3



#90
Hexachloroethane
Concen: 2.661 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. -0.00 min
Lab File: VY003485.D
Acq: 03 Nov 2020 12:32

Tgt Ion: 117 Resp: 4557
Ion Ratio Lower Upper
117 100
201 94.2 46.6 139.8





#91

1,2-Dichlorobenzene

Concen: 2.753 ug/l

RT: 13.74 min Scan# 1969

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

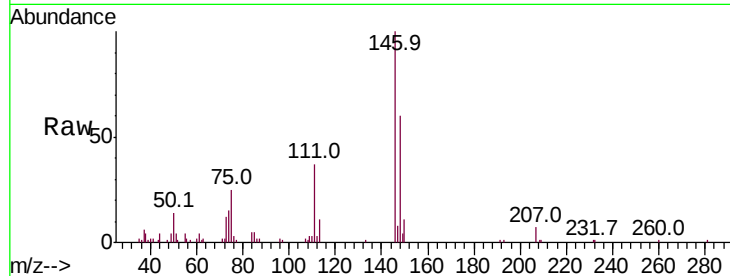
Tot Ion:146 Resp: 12761

Ion Ratio Lower Upper

146 100

111 40.5 19.3 57.8

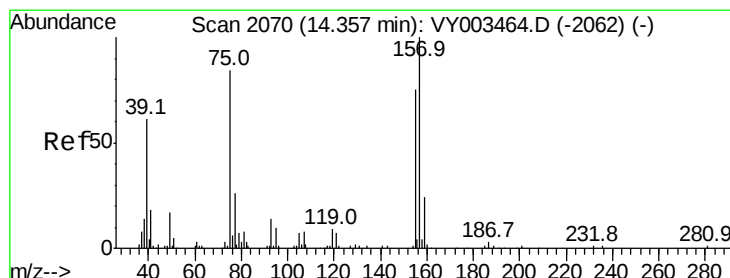
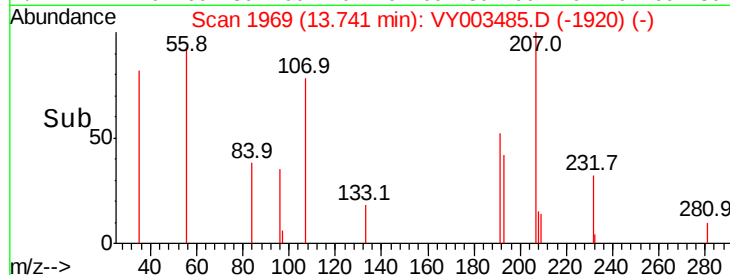
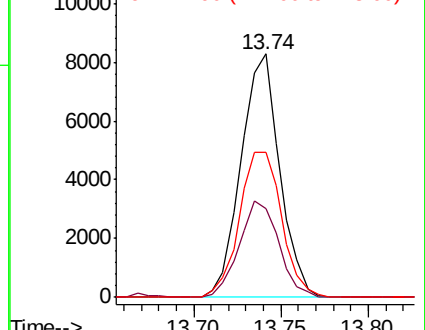
148 65.4 32.3 96.8



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: 3.049 ug/l

RT: 14.35 min Scan# 2069

Delta R.T. -0.01 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

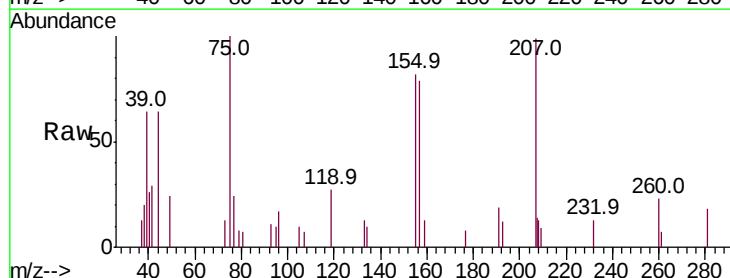
Tgt Ion: 75 Resp: 1300

Ion Ratio Lower Upper

75 100

155 86.5 45.6 136.7

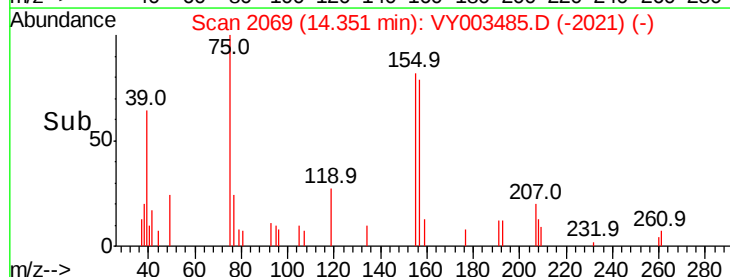
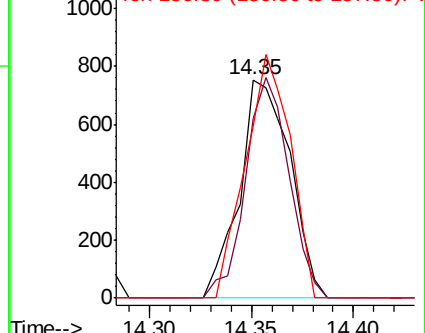
157 99.7 60.3 180.8

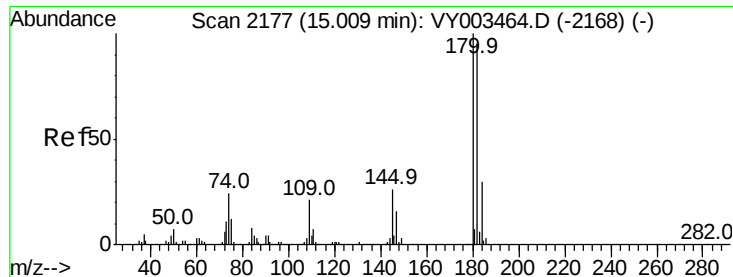


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

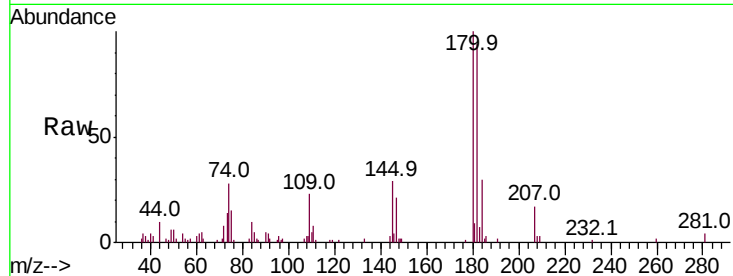




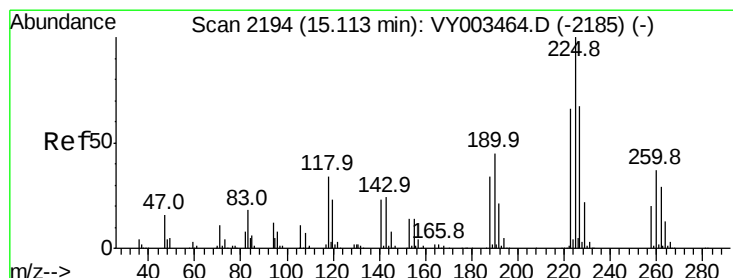
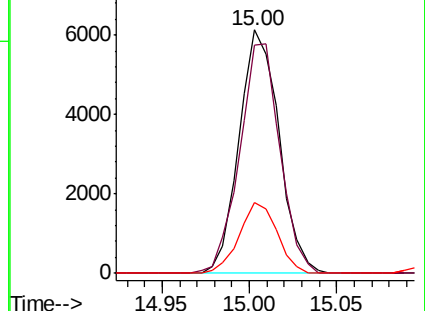
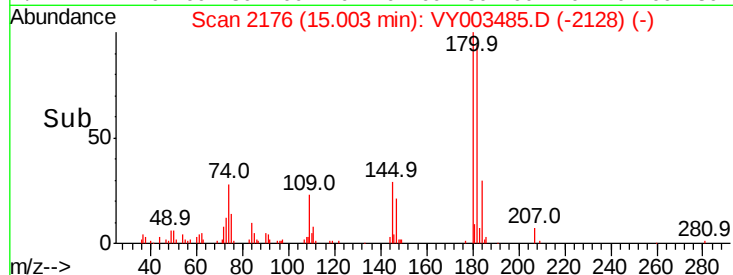
#93
 1,2,4-Trichlorobenzene
 Concen: 2.973 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

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

Tot Ion:180 Resp: 9750
 Ion Ratio Lower Upper
 180 100
 182 94.8 48.1 144.3
 145 27.7 13.8 41.3

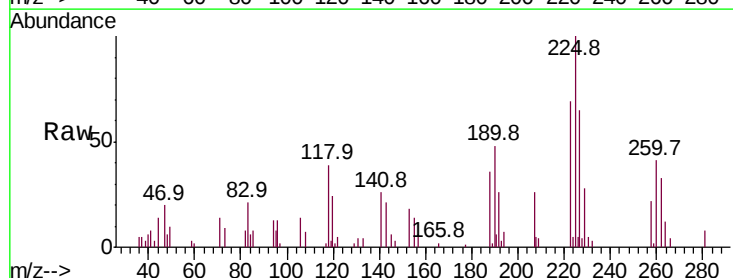


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

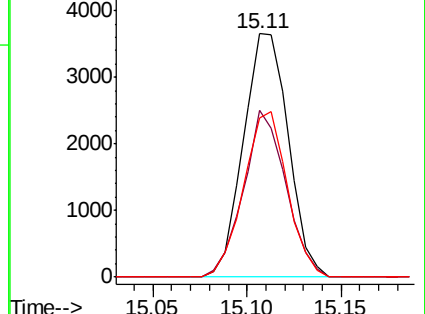
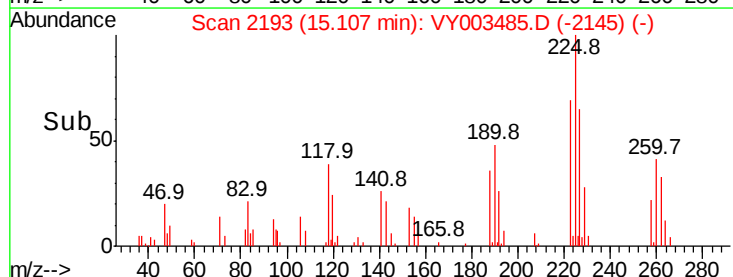


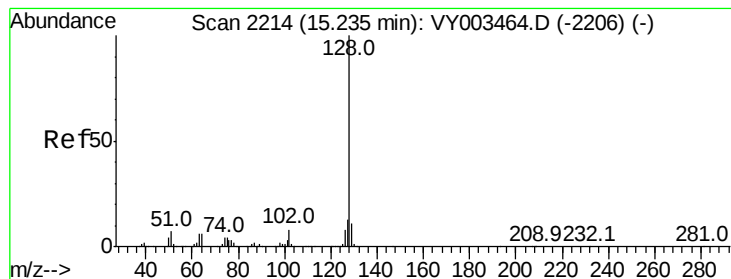
#94
 Hexachlorobutadiene
 Concen: 2.857 ug/l
 RT: 15.11 min Scan# 2193
 Delta R.T. -0.01 min
 Lab File: VY003485.D
 Acq: 03 Nov 2020 12:32

Tgt Ion:225 Resp: 6027
 Ion Ratio Lower Upper
 225 100
 223 64.7 32.1 96.3
 227 66.1 32.4 97.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 2.789 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

Instrument :

MSVOA_Y

ClientSampleId :

MDL-SOIL-03-QT4-2020

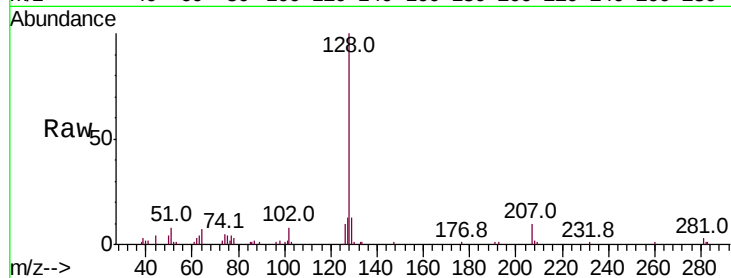
Tot Ion:128 Resp: 18316

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

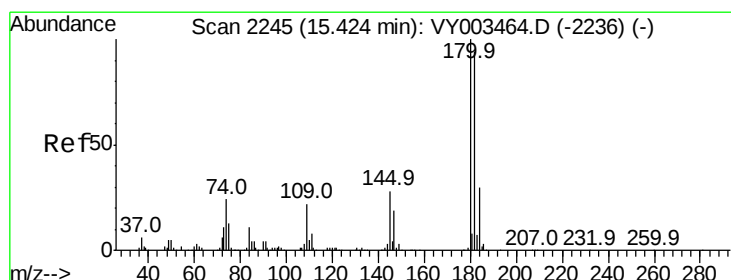
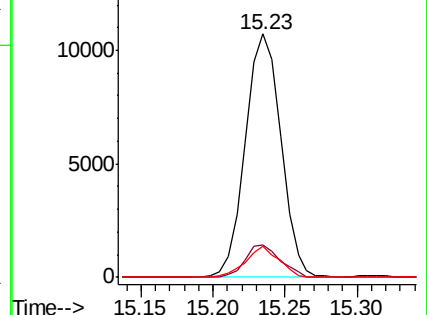
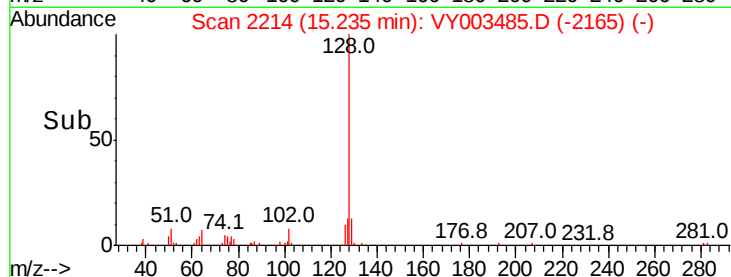
129 11.8 8.6 13.0



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: 2.985 ug/l

RT: 15.42 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VY003485.D

Acq: 03 Nov 2020 12:32

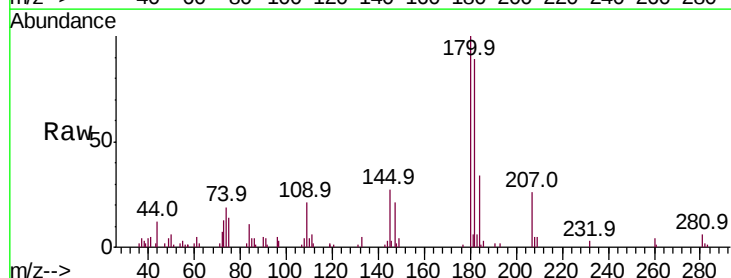
Tgt Ion:180 Resp: 8805

Ion Ratio Lower Upper

180 100

182 95.5 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

