

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101320\
 Data File : VW016885.D
 Acq On : 12 Oct 2020 16:37
 Operator : SY/VA
 Sample : L4214-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Oct 12 23:43:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101020S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 05:14:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	393867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	594995	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	540753	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	271848	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	175250	54.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.40%	
35) Dibromofluoromethane	7.88	113	186267	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	
50) Toluene-d8	10.32	98	702373	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
62) 4-Bromofluorobenzene	12.62	95	245327	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	6007	2.796	ug/l	96
3) Chloromethane	2.21	50	6547	2.779	ug/l	98
4) Vinyl Chloride	2.36	62	9027	2.650	ug/l	100
5) Bromomethane	2.78	94	7524	2.876	ug/l	96
6) Chloroethane	2.93	64	5630	2.597	ug/l	95
7) Trichlorofluoromethane	3.26	101	4948	1.995	ug/l	99
8) Diethyl Ether	3.68	74	4725	3.050	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.07	101	9044	2.708	ug/l	96
10) Methyl Iodide	4.28	142	14154	2.651	ug/l	97
11) Tert butyl alcohol	5.17	59	4461	28.492	ug/l	99
12) 1,1-Dichloroethene	4.04	96	8823	2.677	ug/l	96
13) Acrolein	3.90	56	2936	13.871	ug/l	90
14) Allyl chloride	4.67	41	10599	2.686	ug/l	99
15) Acrylonitrile	5.37	53	7595	14.731	ug/l	97
16) Acetone	4.12	43	9544	18.394	ug/l	99
17) Carbon Disulfide	4.39	76	22927	2.614	ug/l	99
18) Methyl Acetate	4.67	43	4146	3.484	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	9885	2.783	ug/l #	76
20) Methylene Chloride	4.93	84	17309	4.210	ug/l	96
21) trans-1,2-Dichloroethene	5.43	96	10361	2.800	ug/l	96
22) Diisopropyl ether	6.31	45	19574	2.730	ug/l	94
23) Vinyl Acetate	6.26	43	61254	13.331	ug/l	100
24) 1,1-Dichloroethane	6.21	63	15741	2.768	ug/l	96
25) 2-Butanone	7.18	43	11932	17.249	ug/l	100
26) 2,2-Dichloropropane	7.17	77	12144	3.491	ug/l	85
27) cis-1,2-Dichloroethene	7.18	96	10780	2.720	ug/l	88
28) Bromochloromethane	7.51	49	6435	2.828	ug/l	100
29) Tetrahydrofuran	7.54	42	6297	16.252	ug/l	98
30) Chloroform	7.68	83	17782	2.877	ug/l	99
31) Cyclohexane	7.95	56	18980	3.913	ug/l #	63
32) 1,1,1-Trichloroethane	7.88	97	14207	2.725	ug/l	98
36) 1,1-Dichloropropene	8.09	75	13875	2.698	ug/l	100
37) Ethyl Acetate	7.26	43	5443	3.239	ug/l #	93
38) Carbon Tetrachloride	8.07	117	13801	2.581	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	15775	2.689	ug/l	97
40) Benzene	8.33	78	38841	2.710	ug/l	100
41) Methacrylonitrile	7.49	41	3317	3.331	ug/l #	76
42) 1,2-Dichloroethane	8.40	62	11428	2.915	ug/l	100
43) Isopropyl Acetate	8.43	43	8967	2.785	ug/l	97
44) Trichloroethene	9.09	130	12072	2.721	ug/l	96
45) 1,2-Dichloropropane	9.37	63	8831	2.702	ug/l	99
46) Dibromomethane	9.46	93	5065	2.709	ug/l	97
47) Bromodichloromethane	9.65	83	12390	2.666	ug/l	94
48) Methyl methacrylate	9.44	41	4273	2.880	ug/l	96
49) 1,4-Dioxane	9.45	88	1125	52.319	ug/l #	90
51) 4-Methyl-2-Pentanone	10.21	43	24210	14.865	ug/l	99
52) Toluene	10.39	92	25388	2.680	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	10561	2.496	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	13239	2.561	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	7467	2.806	ug/l	94
56) Ethyl methacrylate	10.65	69	7479	2.584	ug/l	94
57) 1,3-Dichloropropane	10.93	76	12110	2.751	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	20672	12.887	ug/l	99
59) 2-Hexanone	10.98	43	14807	13.741	ug/l	97
60) Dibromochloromethane	11.13	129	8480	2.598	ug/l	100
61) 1,2-Dibromoethane	11.24	107	7333	2.783	ug/l	96
64) Tetrachloroethene	10.87	164	10483	2.721	ug/l	94
65) Chlorobenzene	11.66	112	28724	2.708	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.73	131	9828	2.620	ug/l	99
67) Ethyl Benzene	11.73	91	47789	2.586	ug/l	100
68) m/p-Xylenes	11.84	106	36139	5.027	ug/l	98
69) o-Xylene	12.16	106	17210	2.609	ug/l	99
70) Styrene	12.18	104	26416	2.406	ug/l	98
71) Bromoform	12.35	173	4788	2.543	ug/l #	96
73) Isopropylbenzene	12.46	105	46000	2.546	ug/l	99
74) N-amyl acetate	12.27	43	7459	2.570	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	8300	2.928	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	5948m	2.932	ug/l	
77) Bromobenzene	12.75	156	11871	2.658	ug/l	94
78) n-propylbenzene	12.80	91	54935	2.636	ug/l	98
79) 2-Chlorotoluene	12.90	91	31987	2.691	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	39037	2.578	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	1902m	2.520	ug/l	
82) 4-Chlorotoluene	12.99	91	33205	2.706	ug/l	99
83) tert-Butylbenzene	13.21	119	33838	2.573	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	39229	2.600	ug/l	98
85) sec-Butylbenzene	13.38	105	47527	2.596	ug/l	99
86) p-Isopropyltoluene	13.50	119	43530	2.554	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	24266	2.809	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	24864	2.921	ug/l	89
89) n-Butylbenzene	13.82	91	38655	2.517	ug/l	99
90) Hexachloroethane	14.09	117	6678	2.539	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	21096	2.831	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1287	2.964	ug/l	95

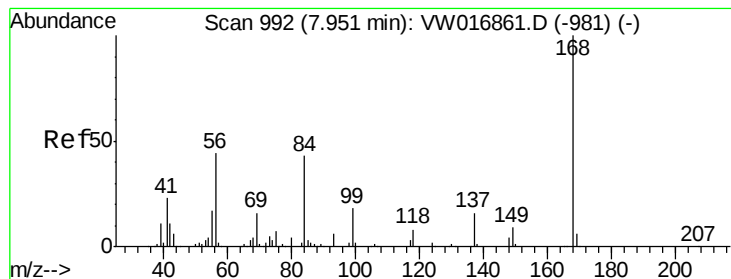
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	13760	2.676	ug/l	96
94) Hexachlorobutadiene	15.24	225	9528	2.858	ug/l	95
95) Naphthalene	15.37	128	21590	2.583	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	13436	3.004	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

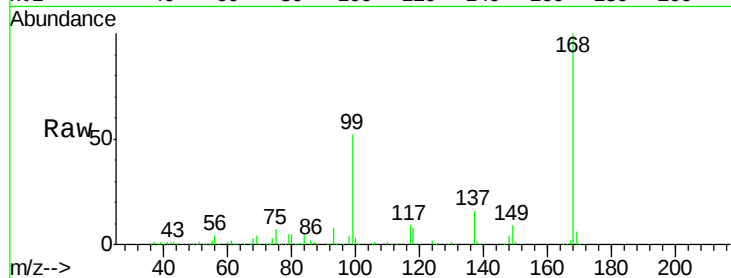
MDL-SOIL-03-QT4-2020

Tot Ion:168 Resp: 393867

Ion Ratio Lower Upper

168 100

99 51.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

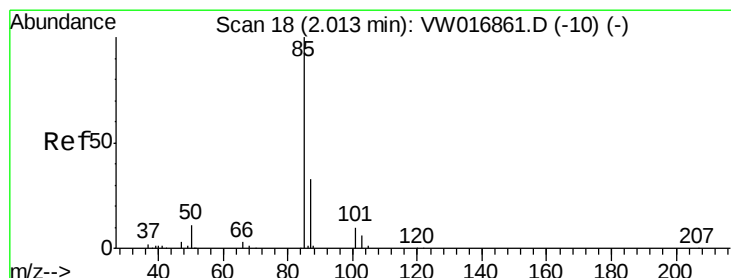
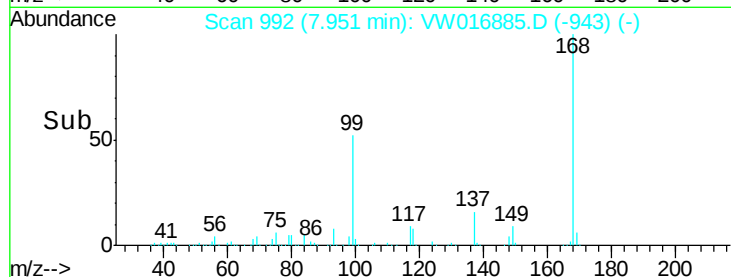
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 2.796 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW016885.D

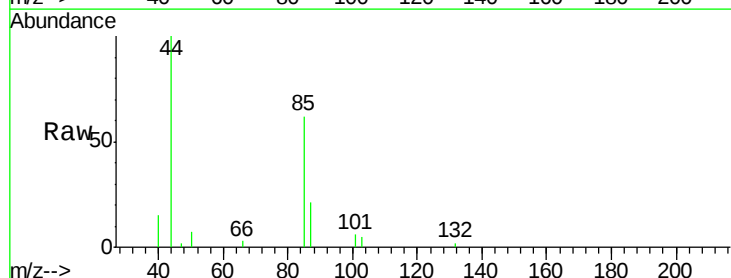
Acq: 12 Oct 2020 16:37

Tgt Ion: 85 Resp: 6007

Ion Ratio Lower Upper

85 100

87 34.7 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

2500

2000

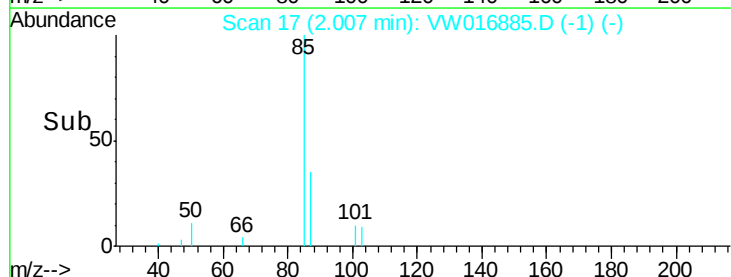
1500

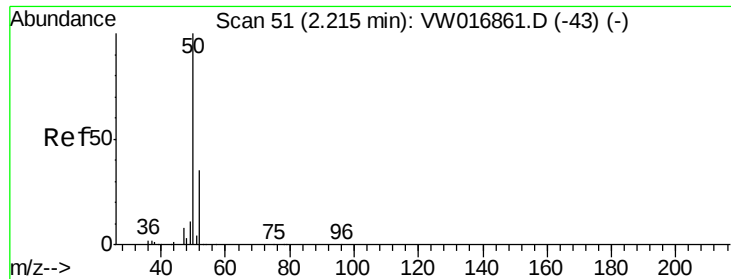
1000

500

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 2.779 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

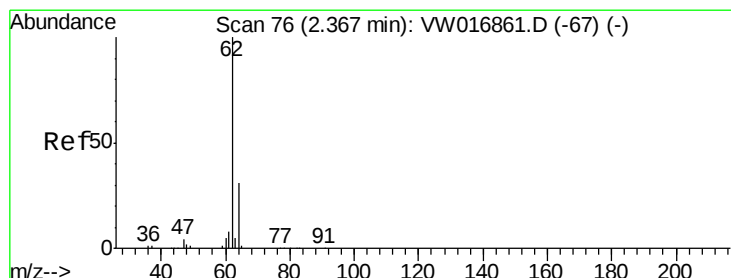
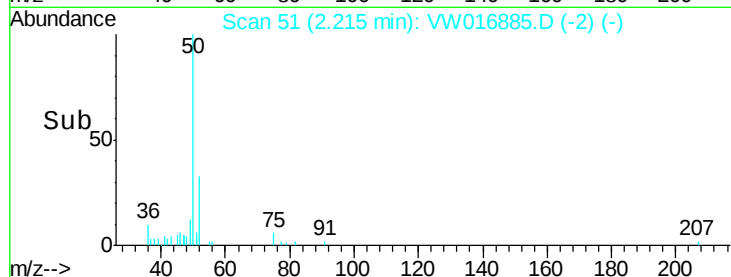
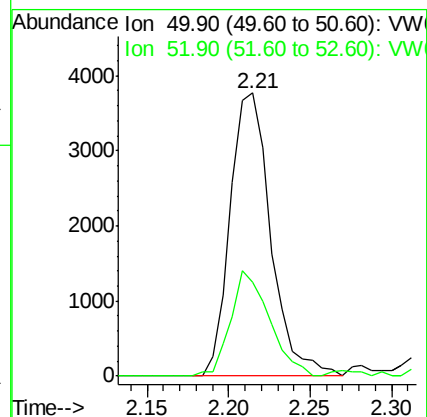
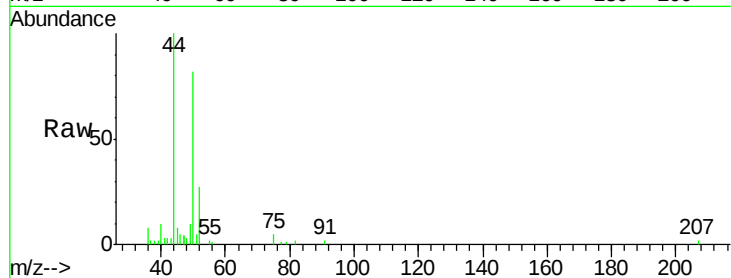
MDL-SOIL-03-QT4-2020

Tot Ion: 50 Resp: 6547

Ion Ratio Lower Upper

50 100

52 33.1 27.6 41.4



#4

Vinyl Chloride

Concen: 2.650 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016885.D

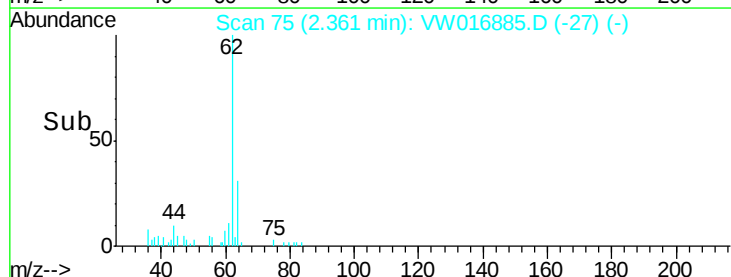
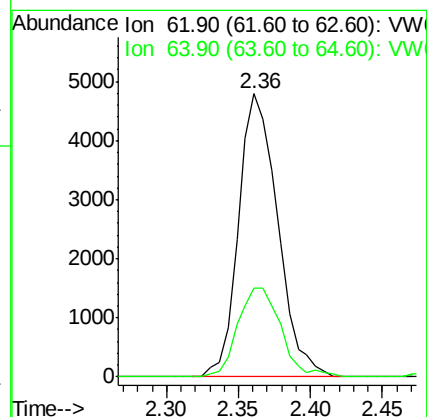
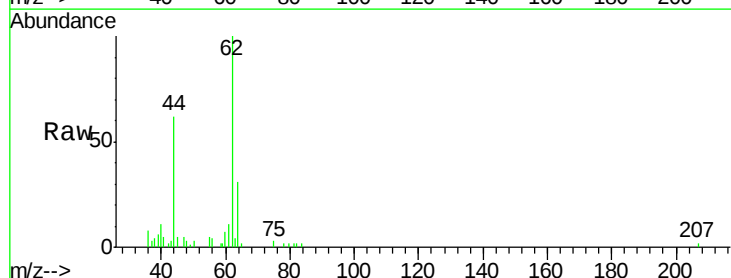
Acq: 12 Oct 2020 16:37

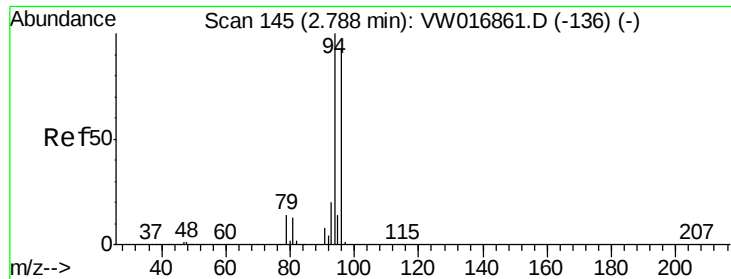
Tgt Ion: 62 Resp: 9027

Ion Ratio Lower Upper

62 100

64 31.4 25.0 37.4





#5

Bromomethane

Concen: 2.876 ug/l

RT: 2.78 min Scan# 144

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

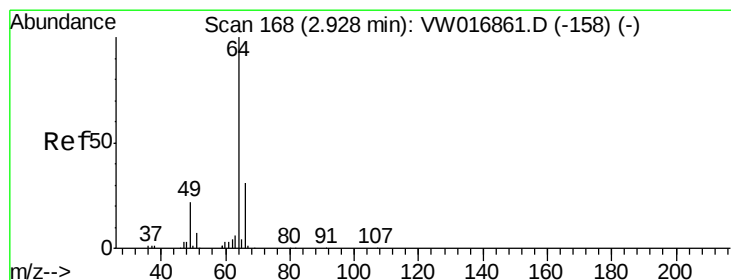
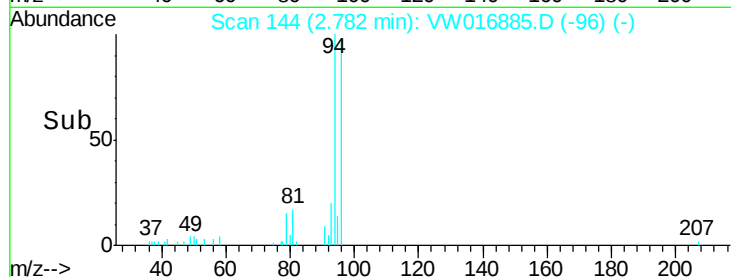
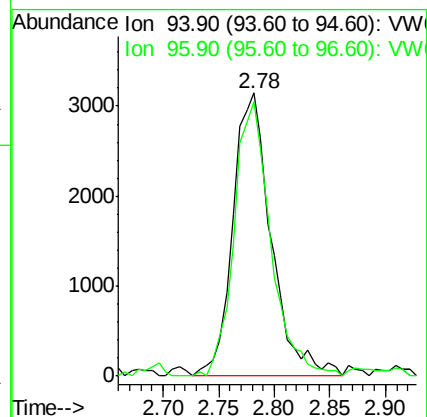
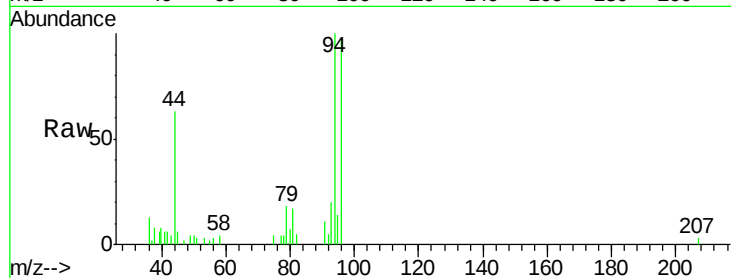
MDL-SOIL-03-QT4-2020

Tot Ion: 94 Resp: 7524

Ion Ratio Lower Upper

94 100

96 97.0 74.7 112.1



#6

Chloroethane

Concen: 2.597 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW016885.D

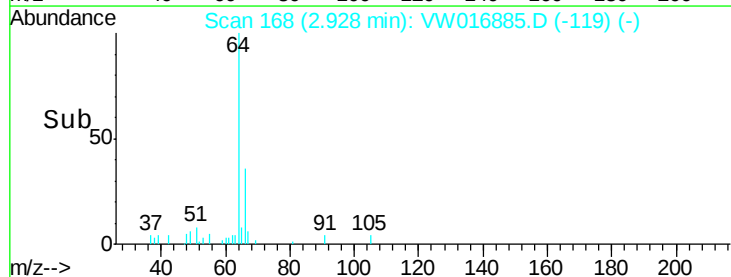
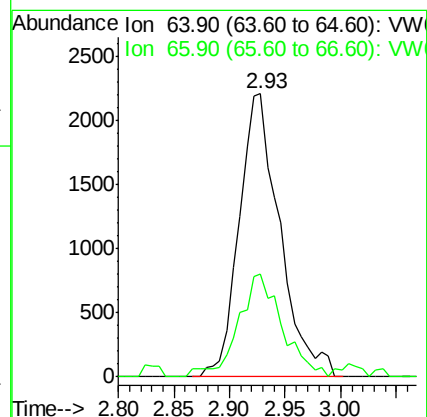
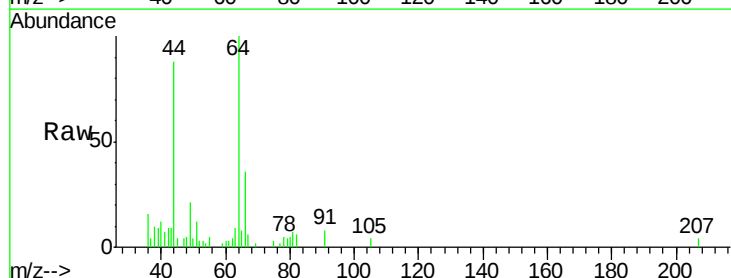
Acq: 12 Oct 2020 16:37

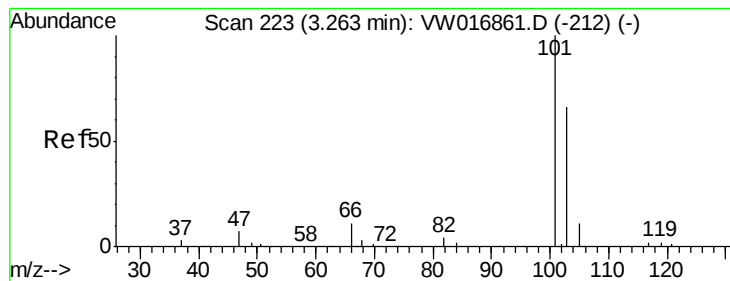
Tgt Ion: 64 Resp: 5630

Ion Ratio Lower Upper

64 100

66 34.0 25.0 37.6





#7

Trichlorofluoromethane

Concen: 1.995 ug/l

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

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ClientSampleId :

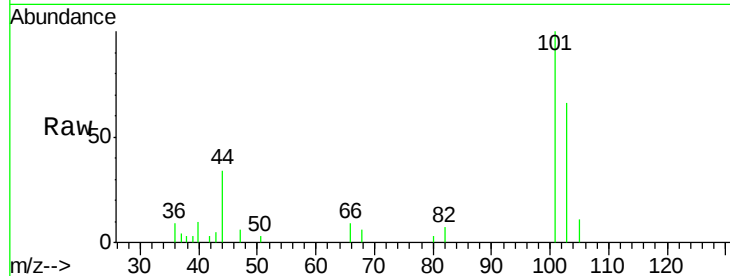
MDL-SOIL-03-QT4-2020

Tot Ion:101 Resp: 4948

Ion Ratio Lower Upper

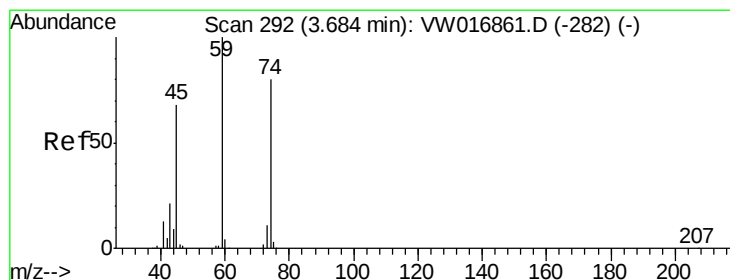
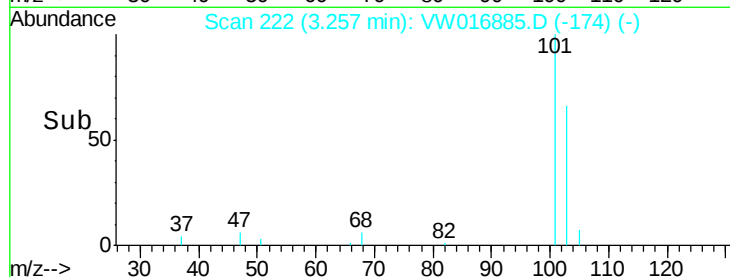
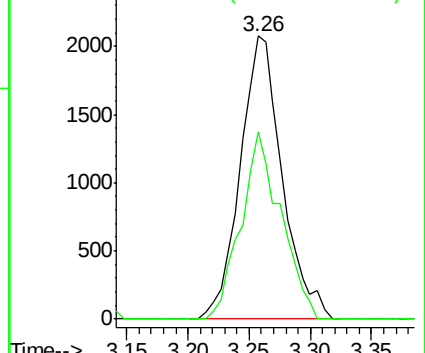
101 100

103 66.3 52.6 79.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 3.050 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW016885.D

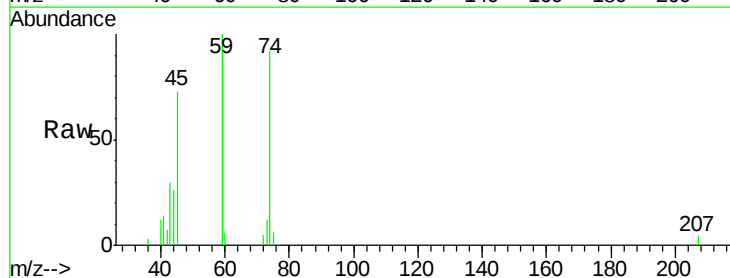
Acq: 12 Oct 2020 16:37

Tgt Ion: 74 Resp: 4725

Ion Ratio Lower Upper

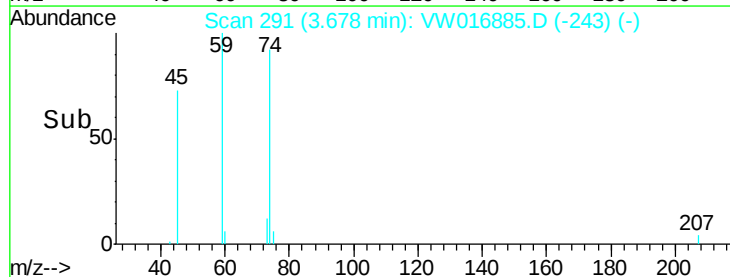
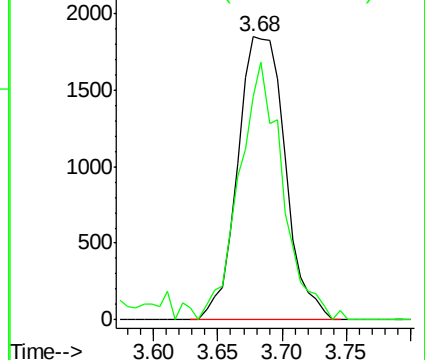
74 100

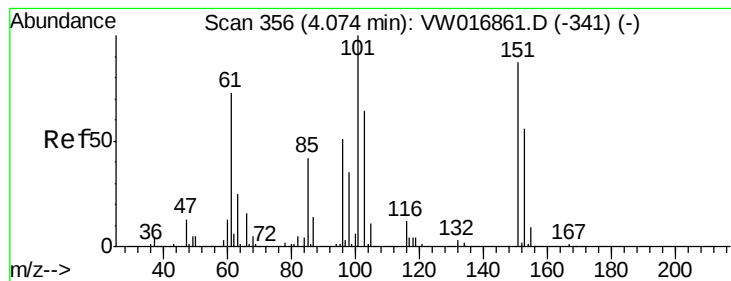
45 83.5 41.1 123.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.708 ug/l

RT: 4.07 min Scan# 356

Delta R.T. 0.00 min

Lab File: VW016885.D

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MDL-SOIL-03-QT4-2020

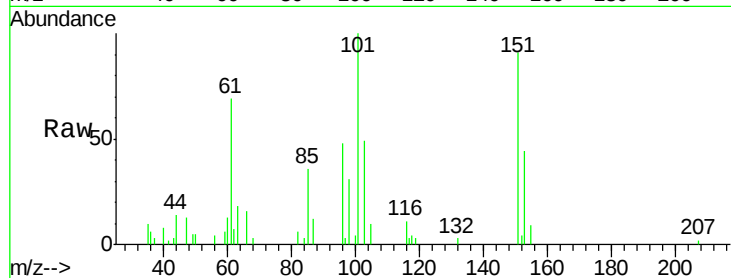
Tot Ion:101 Resp: 9044

Ion Ratio Lower Upper

101 100

85 42.9 33.2 49.8

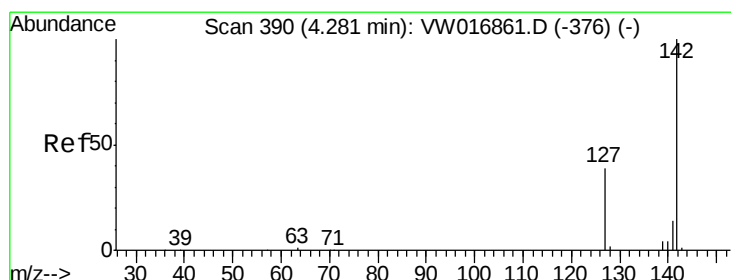
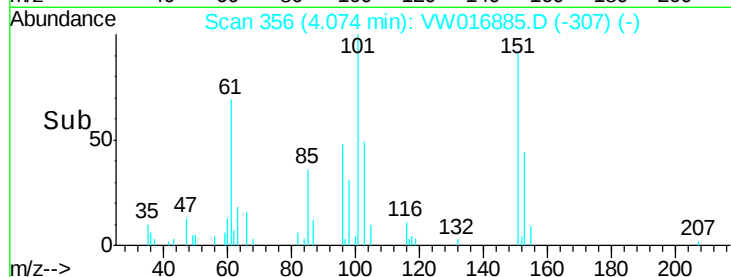
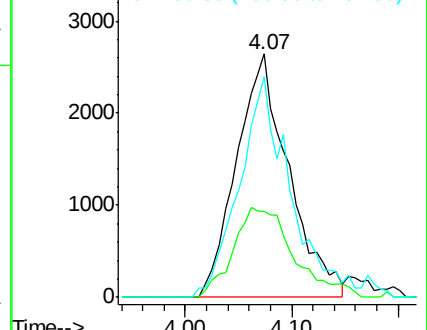
151 88.2 66.6 100.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.651 ug/l

RT: 4.28 min Scan# 390

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

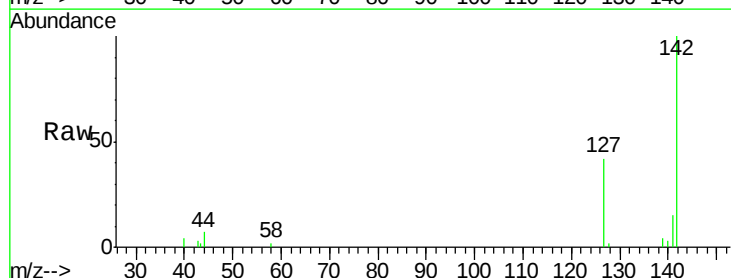
Tgt Ion:142 Resp: 14154

Ion Ratio Lower Upper

142 100

127 41.9 32.4 48.6

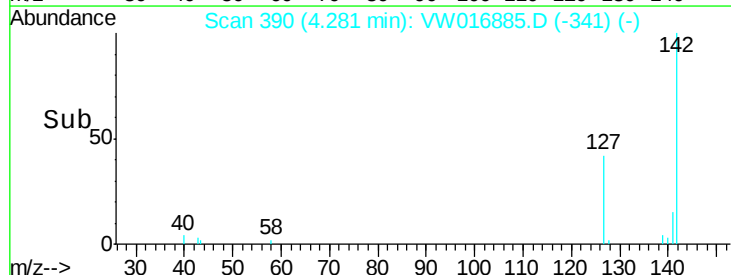
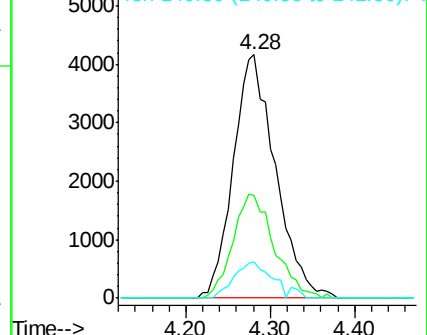
141 12.7 11.4 17.0

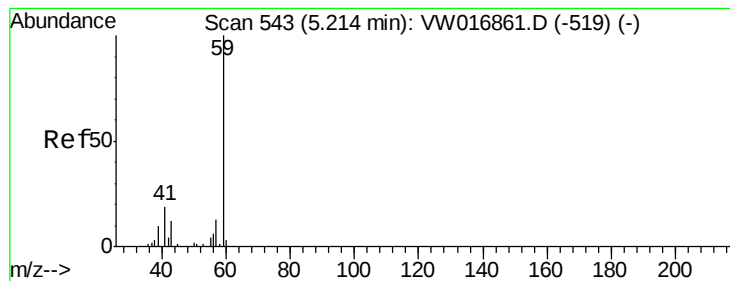


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



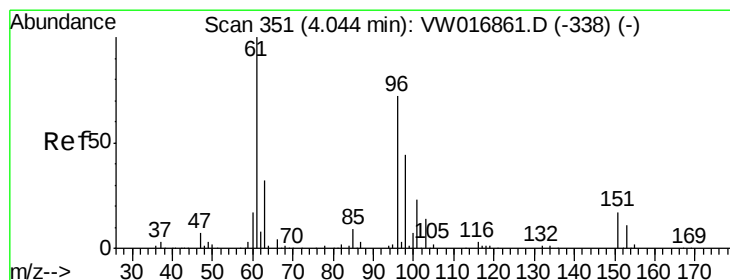
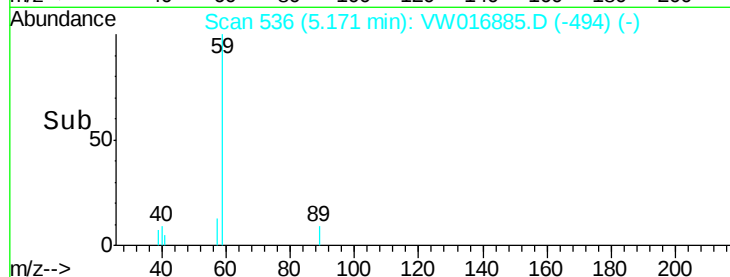
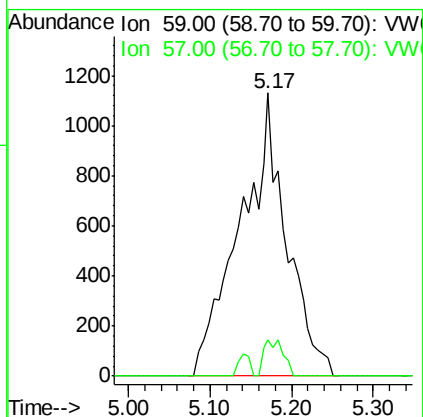
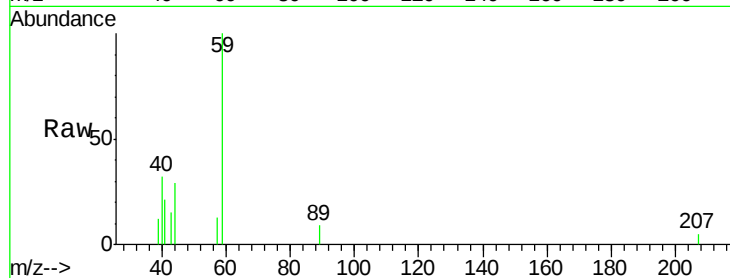


#11

Tert butyl alcohol
 Concen: 28.492 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. -0.04 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

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

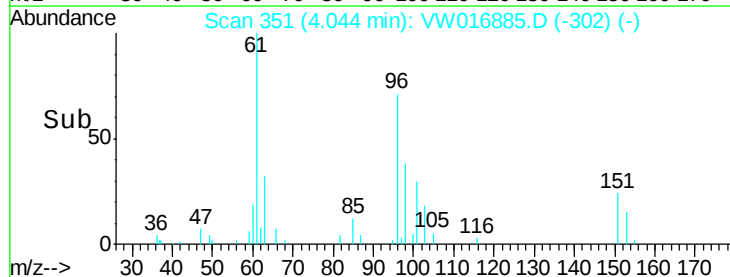
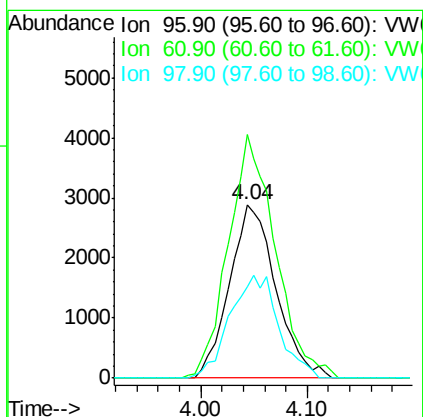
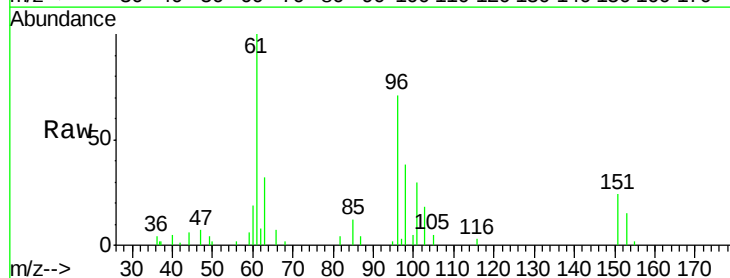
Tot Ion: 59 Resp: 4461
 Ion Ratio Lower Upper
 59 100
 57 5.5 4.7 7.1

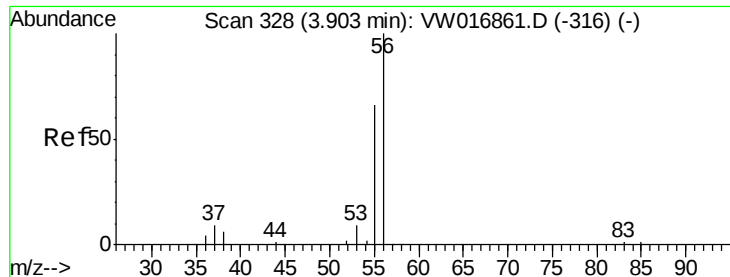


#12

1,1-Dichloroethene
 Concen: 2.677 ug/l
 RT: 4.04 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion: 96 Resp: 8823
 Ion Ratio Lower Upper
 96 100
 61 140.6 111.7 167.5
 98 52.9 49.0 73.4





#13

Acrolein

Concen: 13.871 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

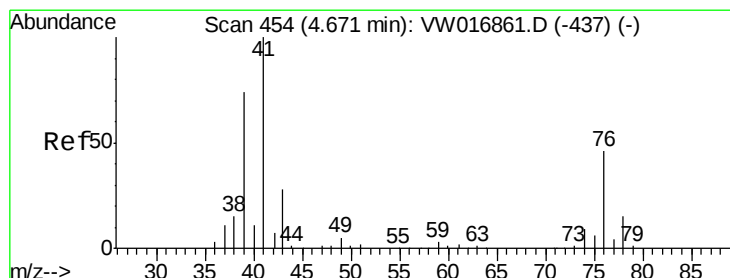
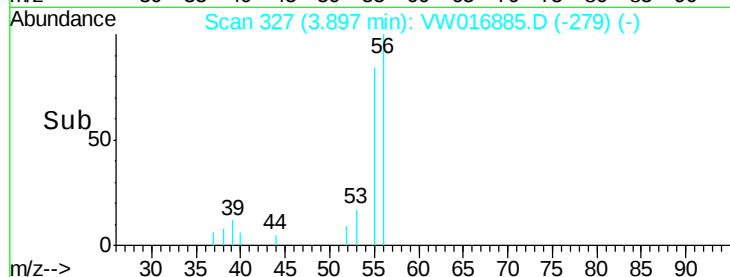
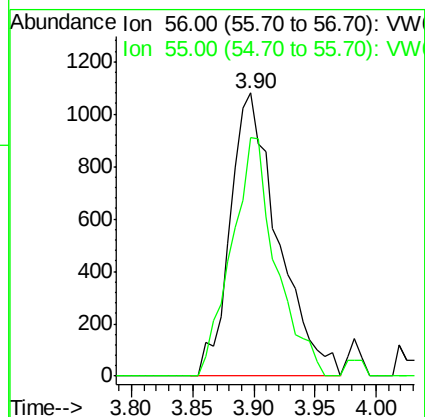
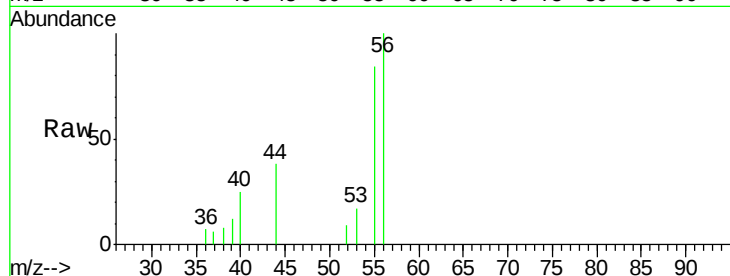
MDL-SOIL-03-QT4-2020

Tot Ion: 56 Resp: 2936

Ion Ratio Lower Upper

56 100

55 78.2 55.9 83.9



#14

Allyl chloride

Concen: 2.686 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

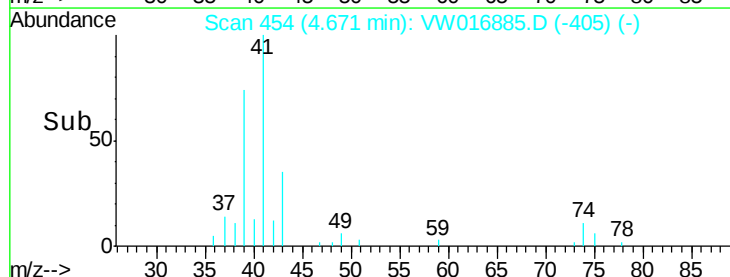
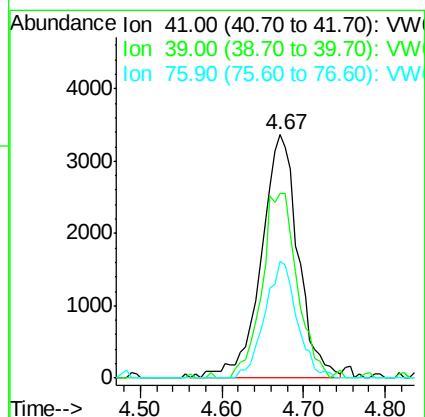
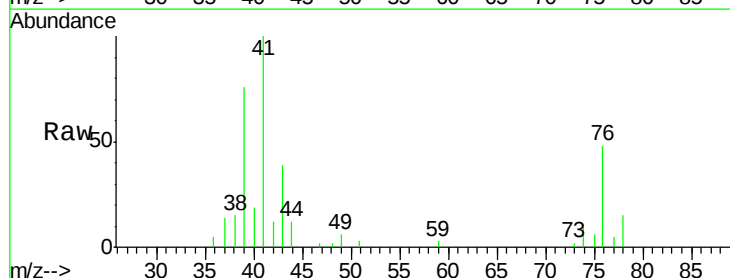
Tgt Ion: 41 Resp: 10599

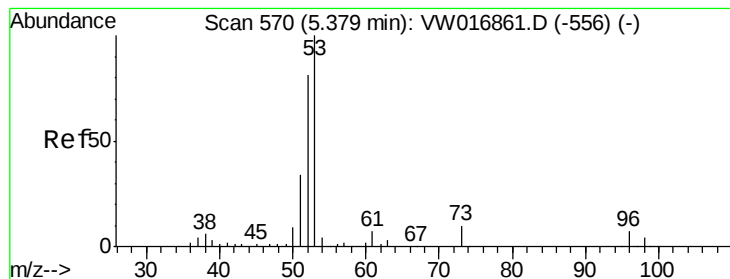
Ion Ratio Lower Upper

41 100

39 72.4 57.8 86.8

76 41.9 35.1 52.7





#15

Acrylonitrile

Concen: 14.731 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

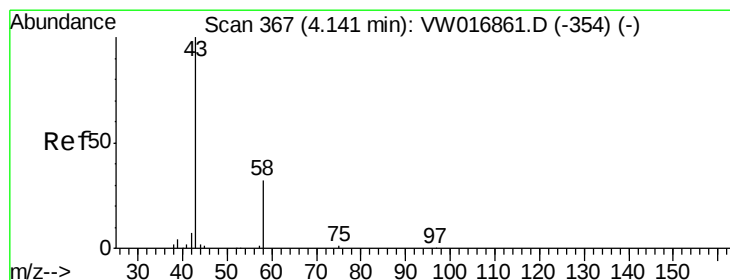
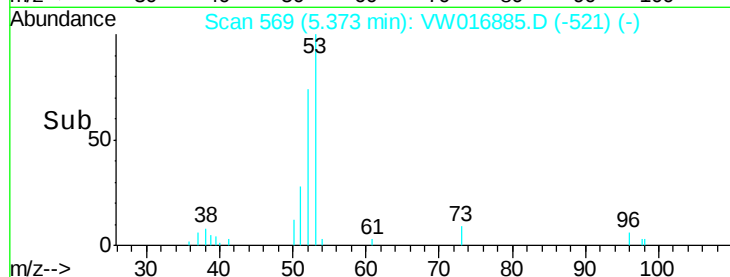
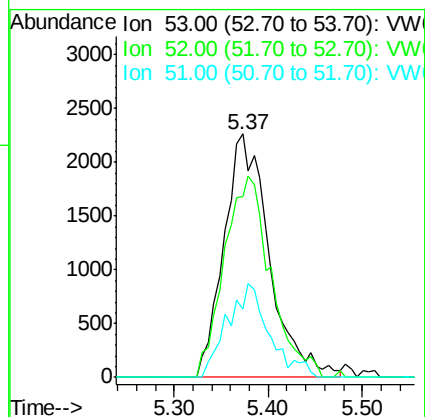
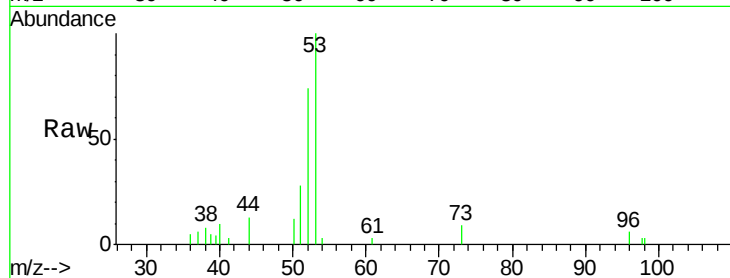
Tot Ion: 53 Resp: 7595

Ion Ratio Lower Upper

53 100

52 84.6 65.0 97.4

51 35.4 29.1 43.7



#16

Acetone

Concen: 18.394 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW016885.D

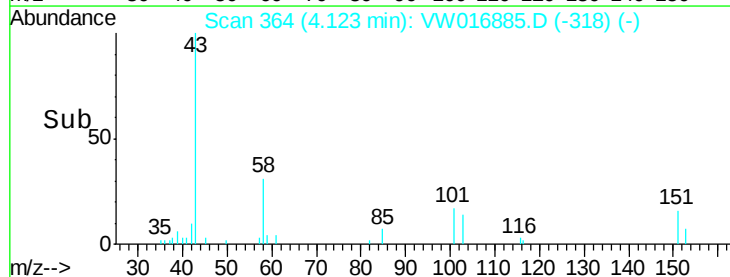
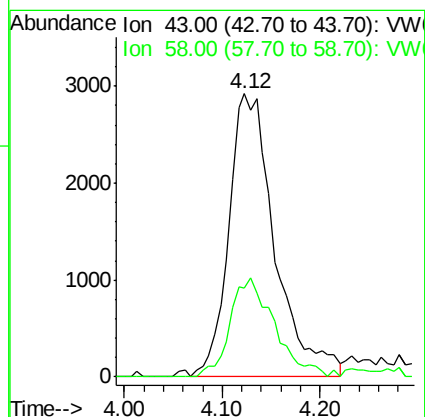
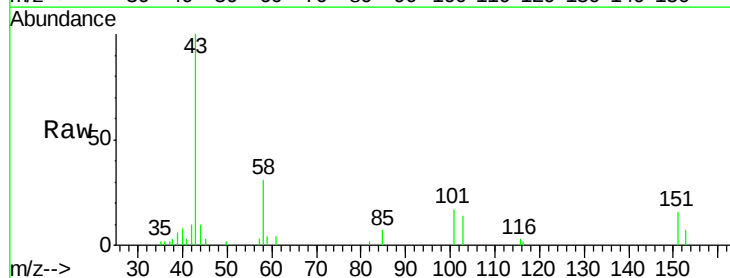
Acq: 12 Oct 2020 16:37

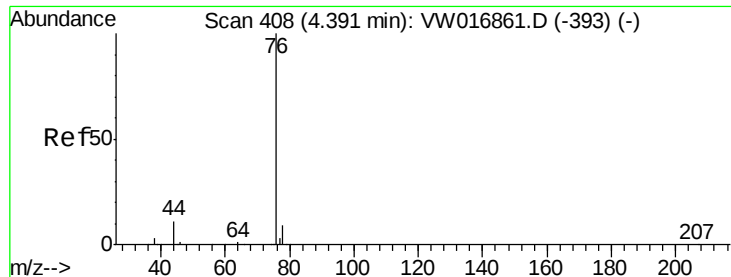
Tgt Ion: 43 Resp: 9544

Ion Ratio Lower Upper

43 100

58 31.3 25.7 38.5

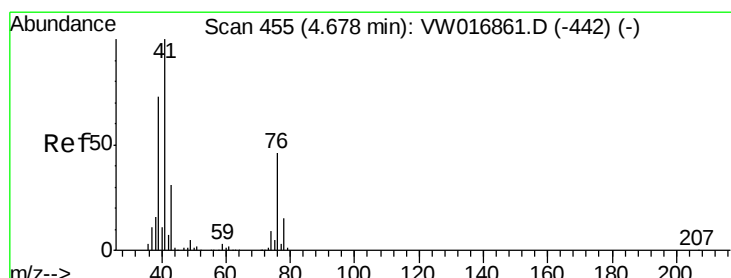
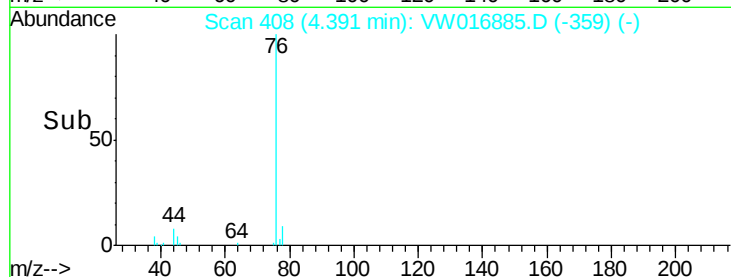
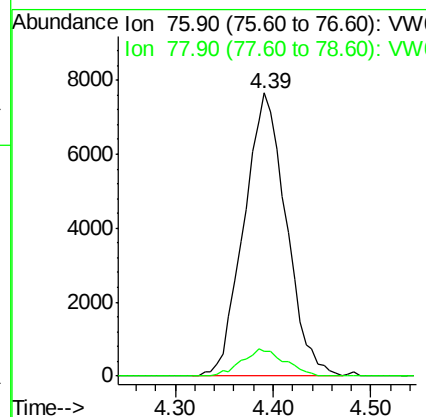
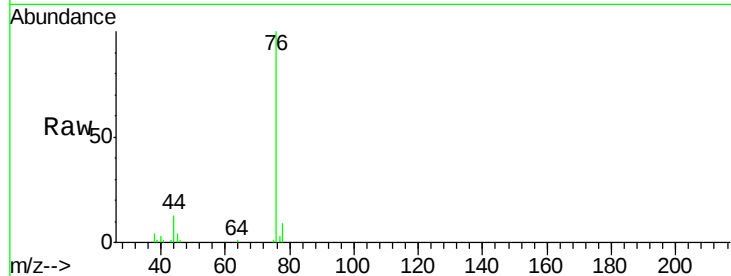




#17
Carbon Disulfide
Concen: 2.614 ug/l
RT: 4.39 min Scan# 408
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

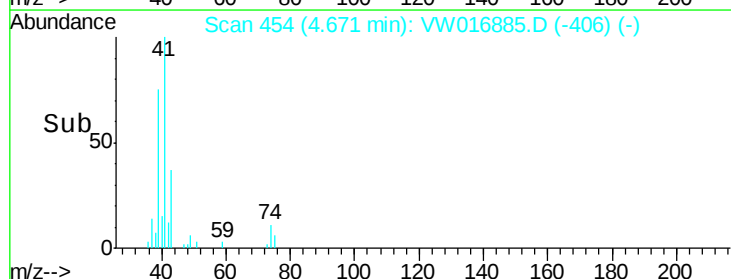
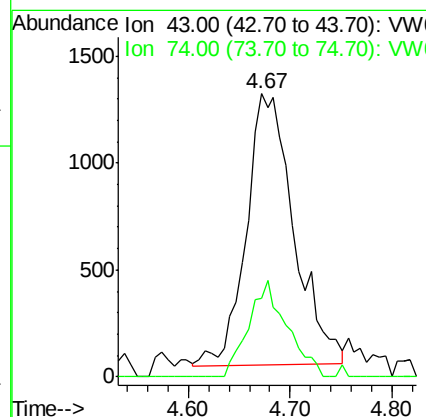
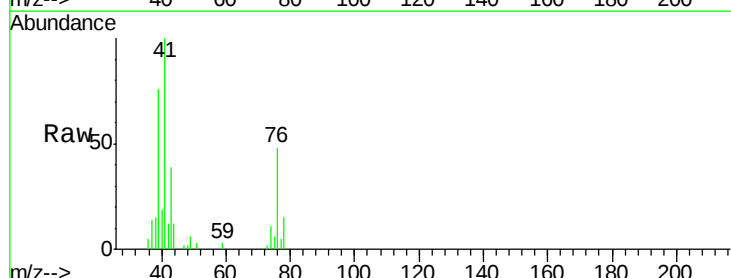
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

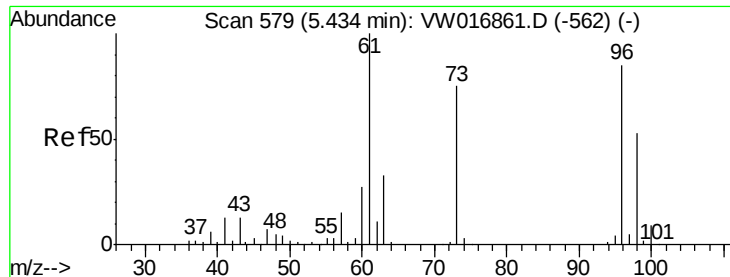
Tot Ion: 76 Resp: 22927
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.2



#18
Methyl Acetate
Concen: 3.484 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 43 Resp: 4146
Ion Ratio Lower Upper
43 100
74 28.4 23.8 35.6

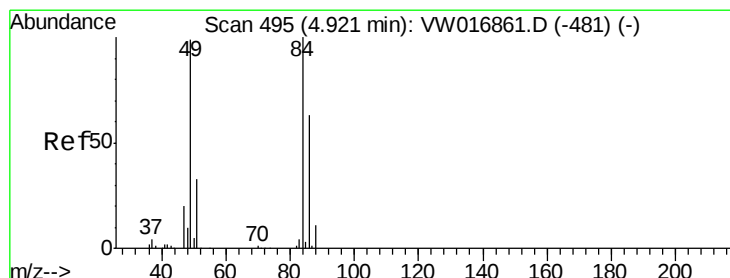
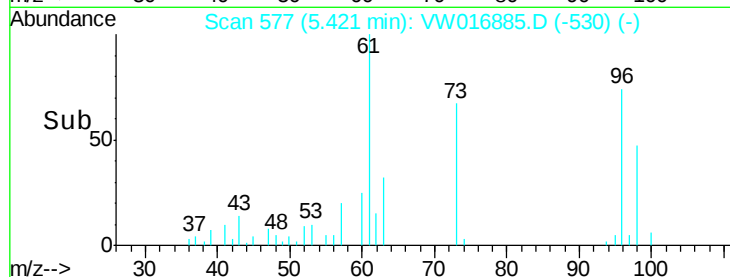
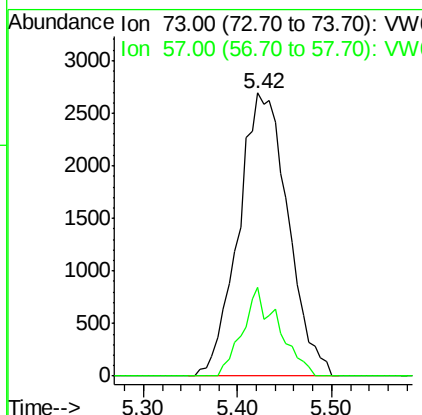
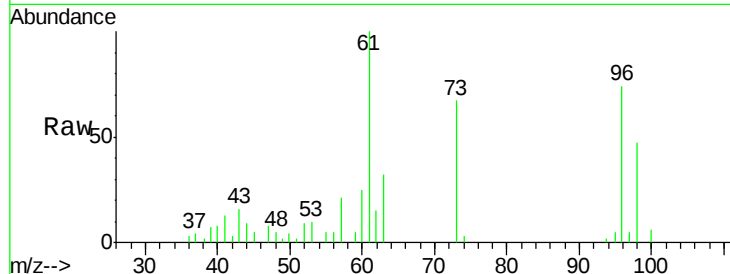




#19
Methvl tert-butvl Ether
Concen: 2.783 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

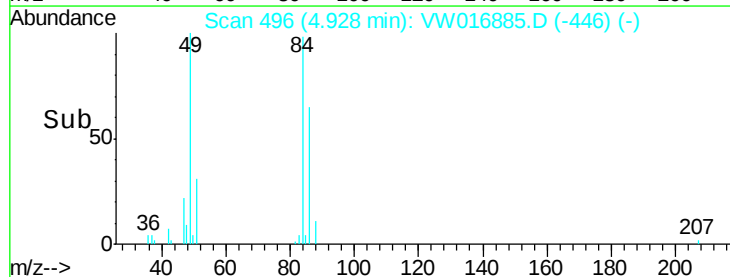
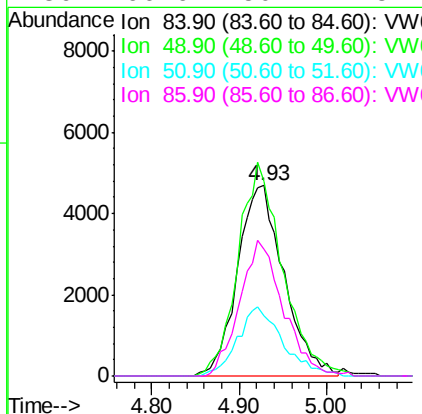
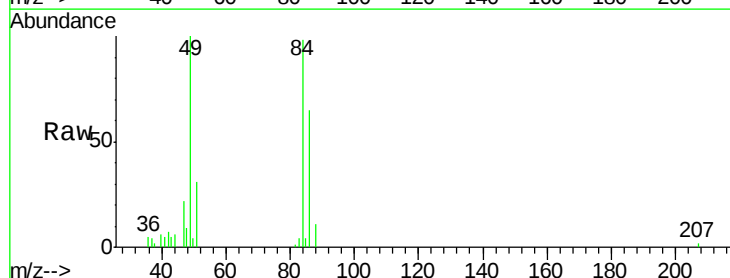
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

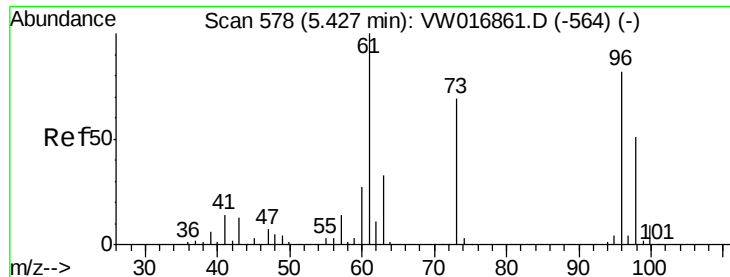
Tot Ion: 73 Resp: 9885
Ion Ratio Lower Upper
73 100
57 31.2 16.1 24.1#



#20
Methylene Chloride
Concen: 4.210 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 84 Resp: 17309
Ion Ratio Lower Upper
84 100
49 102.4 79.0 118.6
51 31.9 26.1 39.1
86 66.6 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 2.800 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

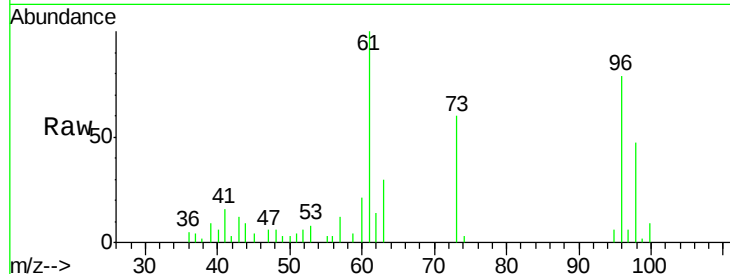
Tot Ion: 96 Resp: 10361

Ion Ratio Lower Upper

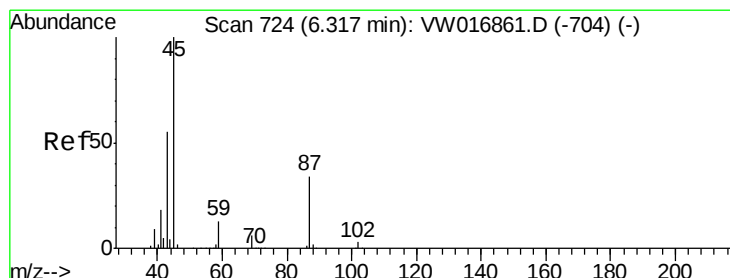
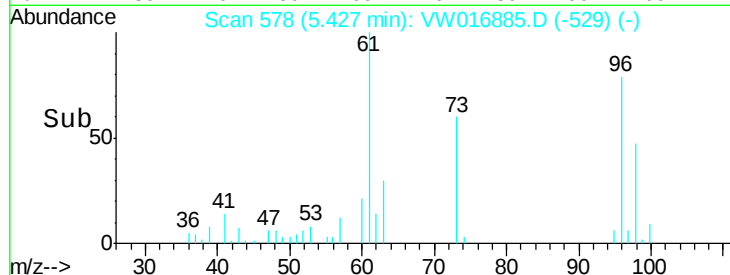
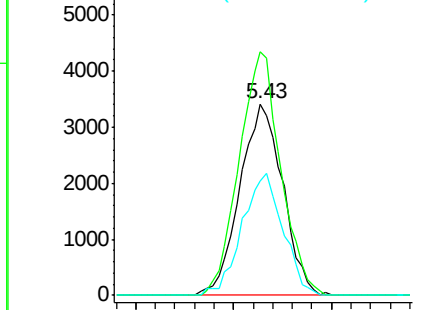
96 100

61 127.0 97.4 146.0

98 59.7 49.4 74.0



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



#22

Diisopropyl ether

Concen: 2.730 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Tgt Ion: 45 Resp: 19574

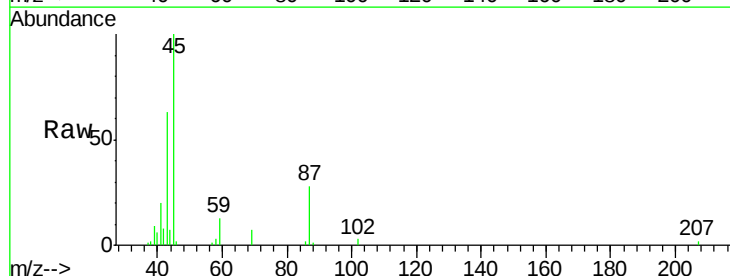
Ion Ratio Lower Upper

45 100

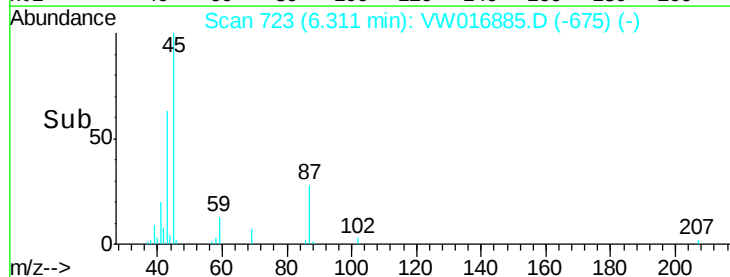
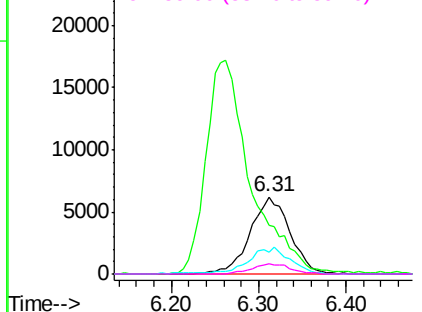
43 58.5 43.8 65.8

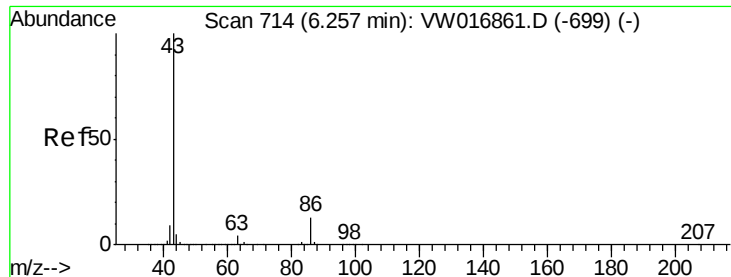
87 28.3 27.6 41.4

59 13.0 10.8 16.2



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





#23

Vinyl Acetate

Concen: 13.331 ug/l

RT: 6.26 min Scan# 715

Delta R.T. 0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

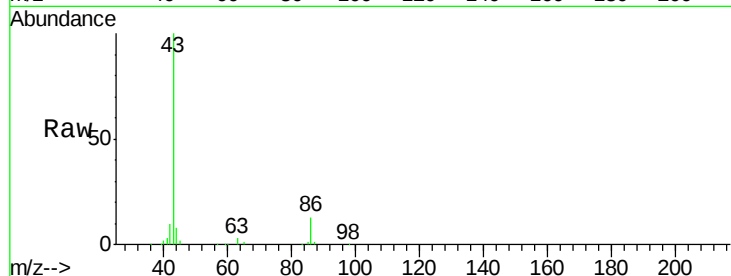
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 61254

Ion Ratio Lower Upper

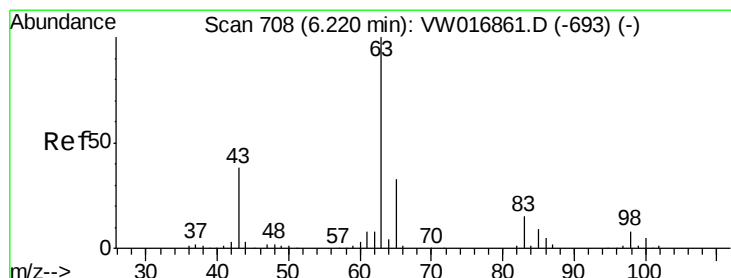
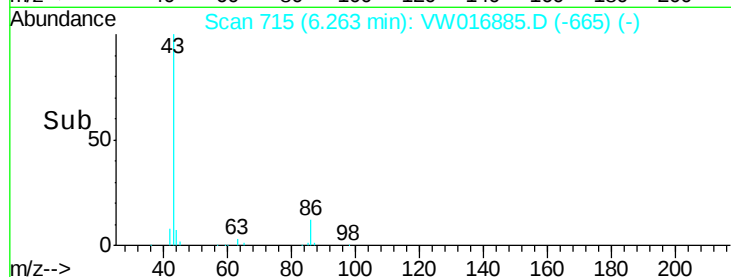
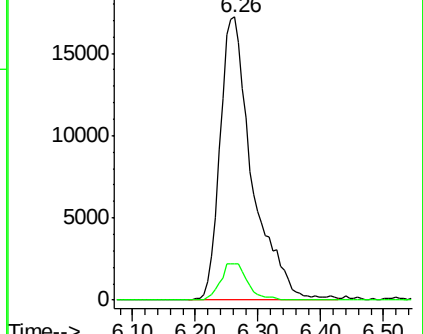
43 100

86 12.9 10.2 15.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 2.768 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

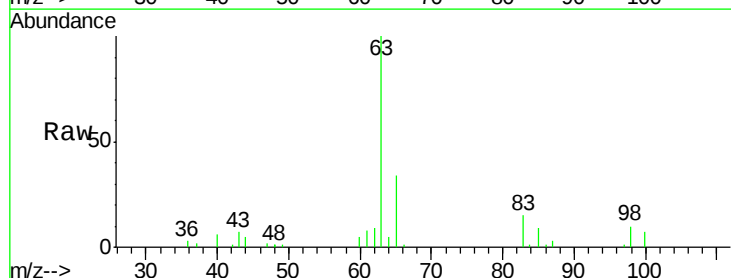
Tgt Ion: 63 Resp: 15741

Ion Ratio Lower Upper

63 100

98 9.5 4.2 12.6

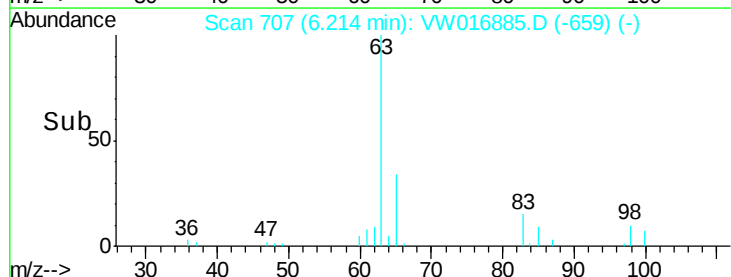
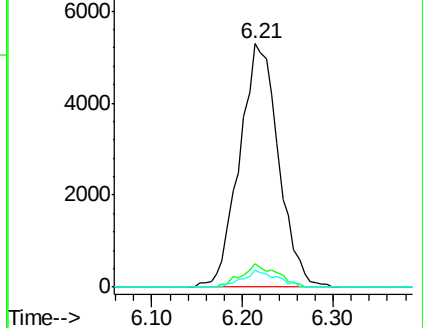
100 7.2 2.6 7.8

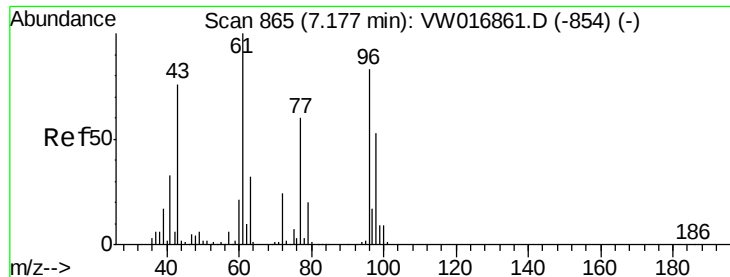


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 17.249 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

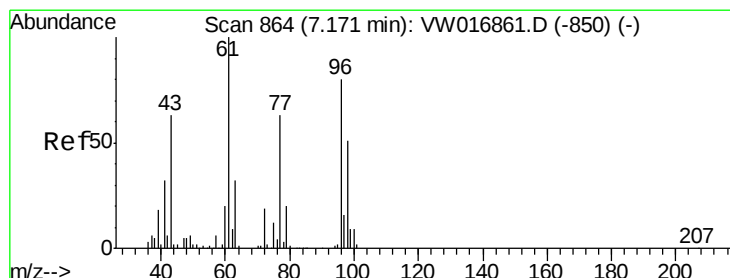
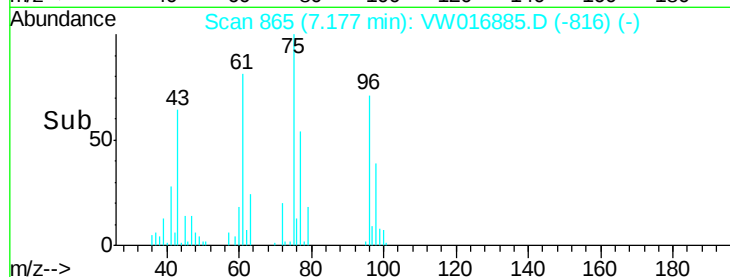
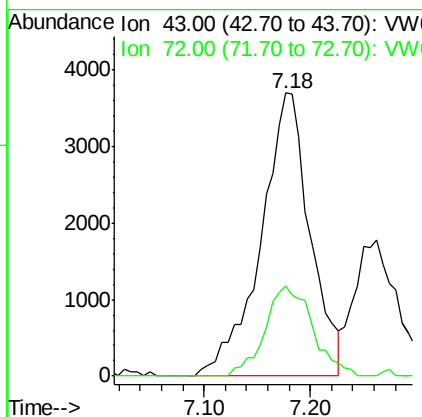
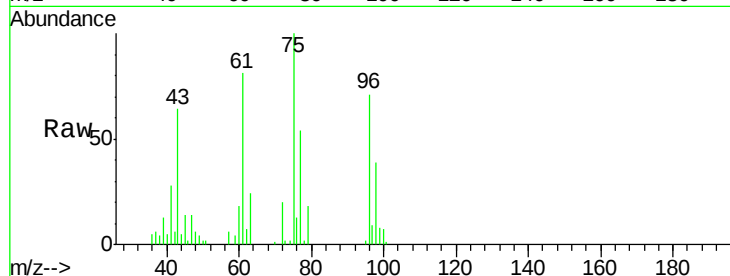
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 11932

Ion Ratio Lower Upper

43 100

72 32.0 25.4 38.2



#26

2,2-Dichloropropane

Concen: 3.491 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW016885.D

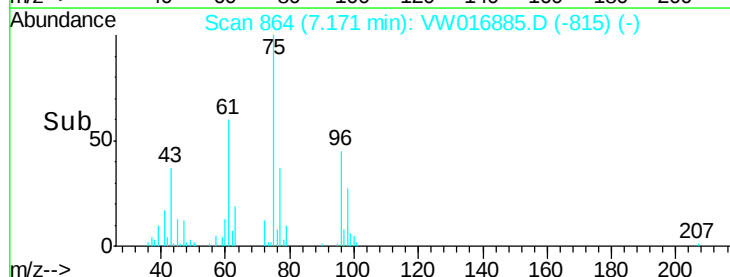
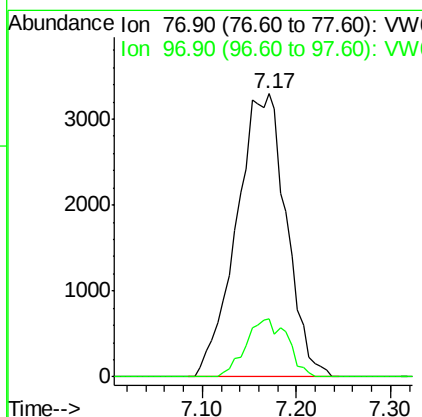
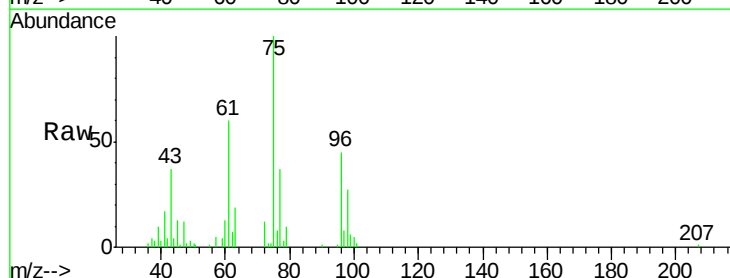
Acq: 12 Oct 2020 16:37

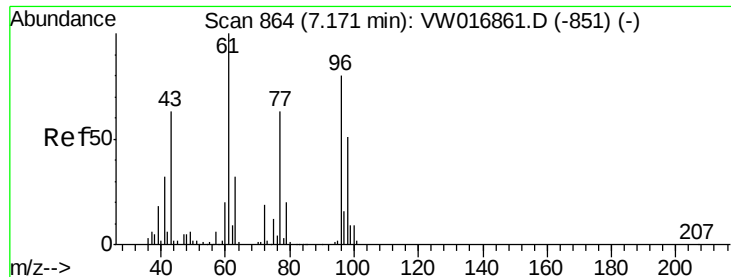
Tgt Ion: 77 Resp: 12144

Ion Ratio Lower Upper

77 100

97 17.3 12.4 37.4



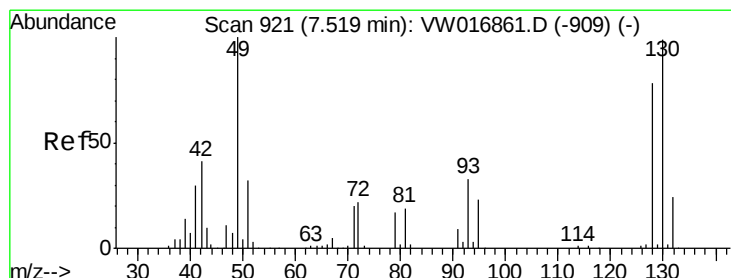
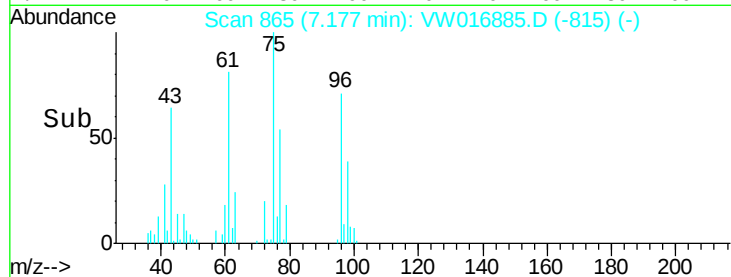
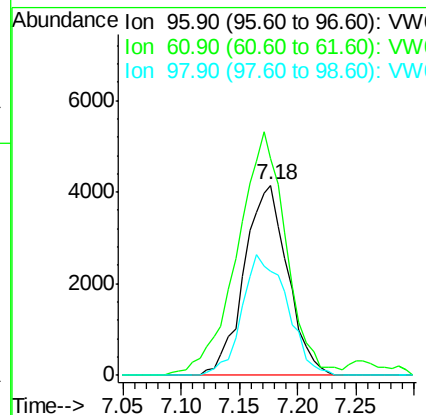
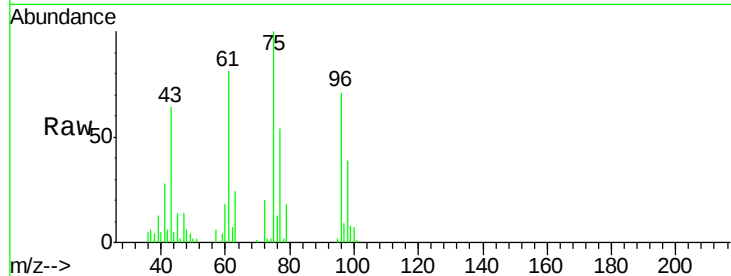


#27

cis-1,2-Dichloroethene
Concen: 2.720 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

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

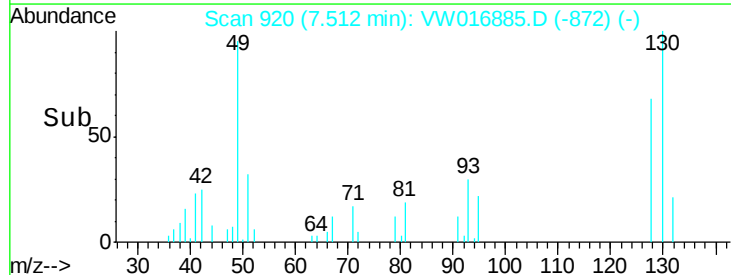
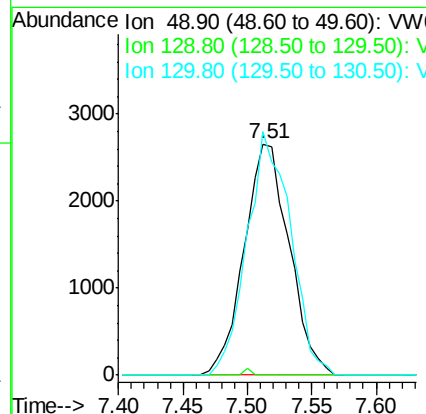
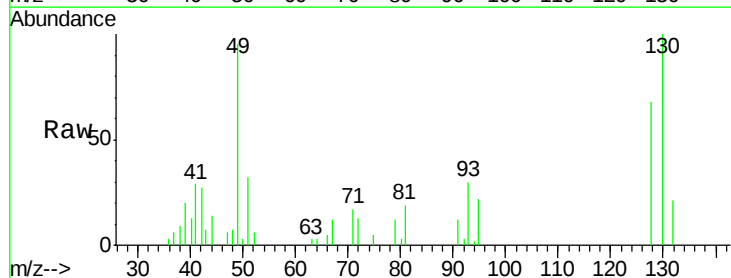
Tot Ion: 96 Resp: 10780
Ion Ratio Lower Upper
96 100
61 143.9 0.0 249.6
98 66.0 0.0 129.4

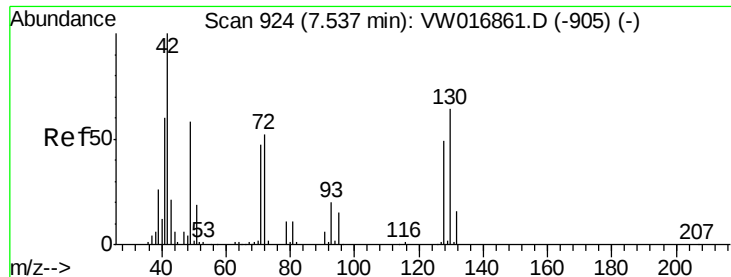


#28

Bromochloromethane
Concen: 2.828 ug/l
RT: 7.51 min Scan# 920
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 49 Resp: 6435
Ion Ratio Lower Upper
49 100
129 0.5 0.0 4.8
130 101.9 81.3 121.9

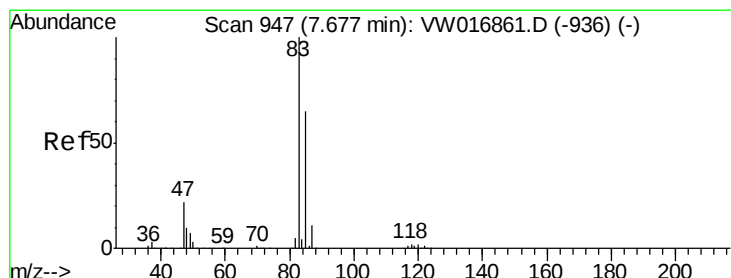
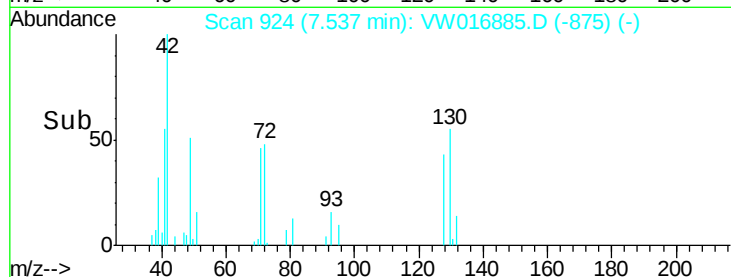
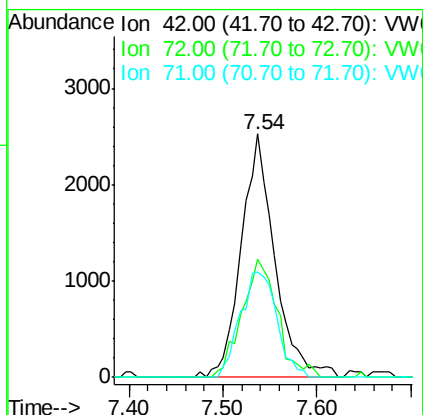
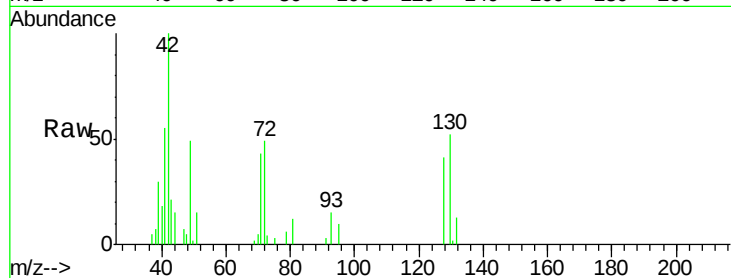




#29
Tetrahydrofuran
Concen: 16.252 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

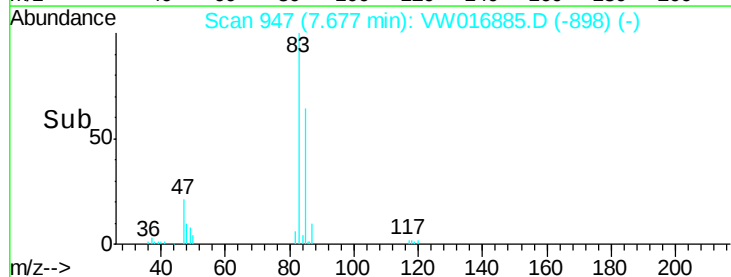
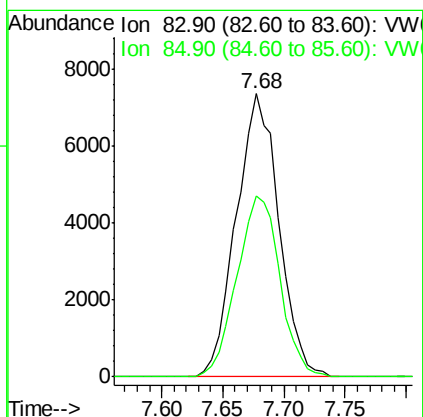
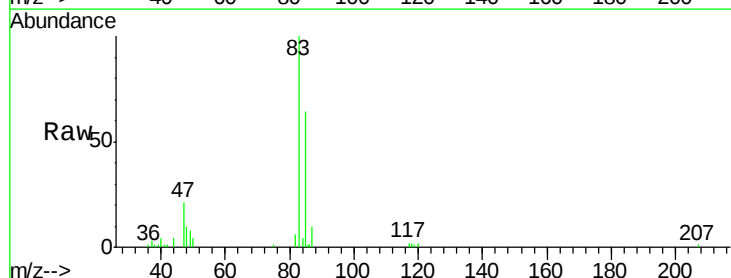
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

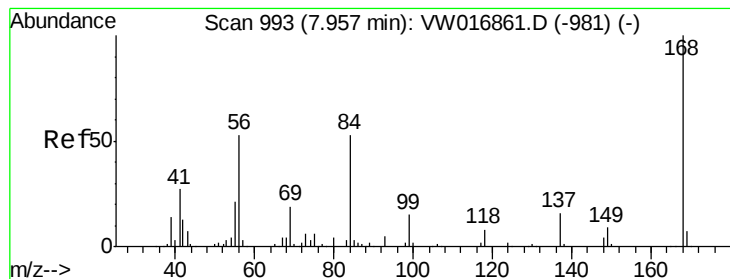
Tot Ion: 42 Resp: 6297
Ion Ratio Lower Upper
42 100
72 51.7 42.0 63.0
71 47.2 39.0 58.6



#30
Chloroform
Concen: 2.877 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 83 Resp: 17782
Ion Ratio Lower Upper
83 100
85 64.1 51.7 77.5





#31

Cyclohexane

Concen: 3.913 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

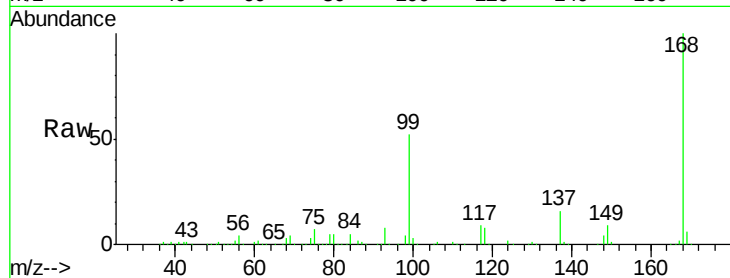
Tot Ion: 56 Resp: 18980

Ion Ratio Lower Upper

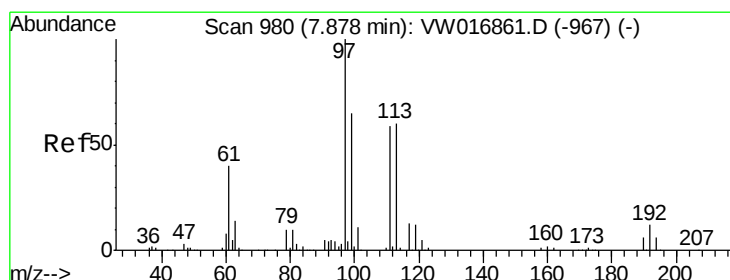
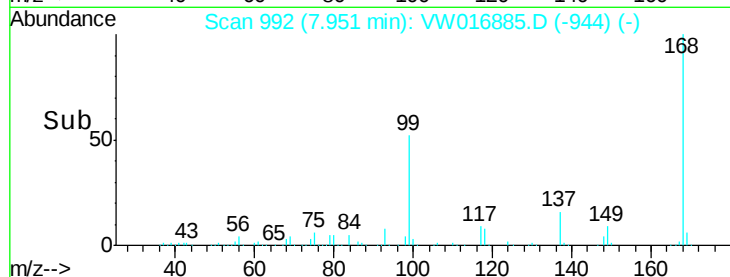
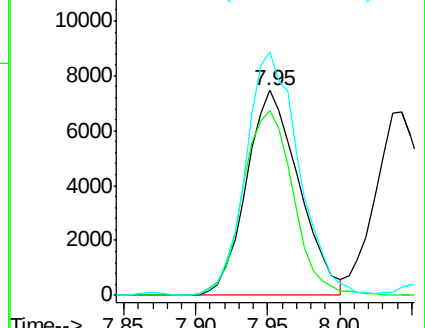
56 100

69 90.0 29.3 43.9#

84 118.7 80.5 120.7



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#32

1,1,1-Trichloroethane

Concen: 2.725 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

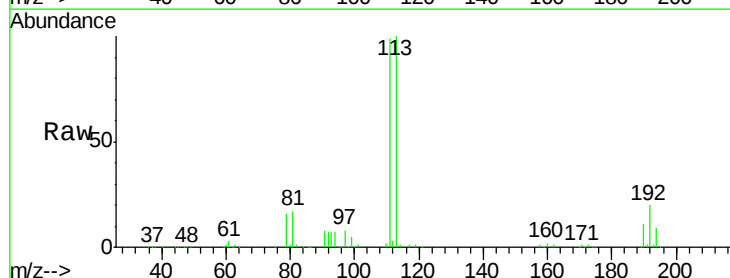
Tgt Ion: 97 Resp: 14207

Ion Ratio Lower Upper

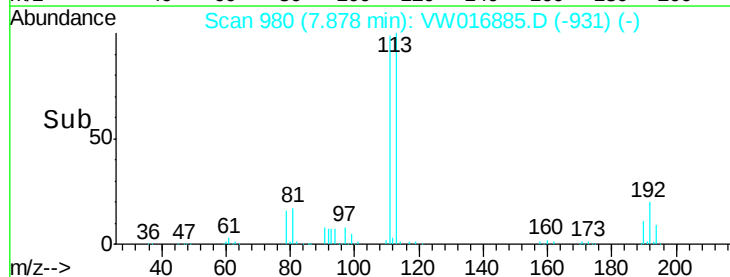
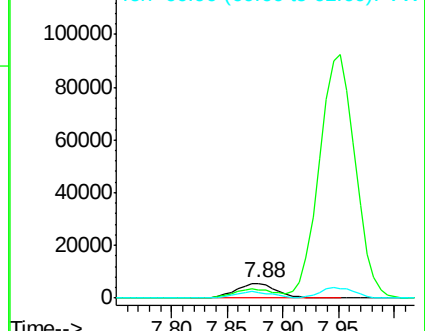
97 100

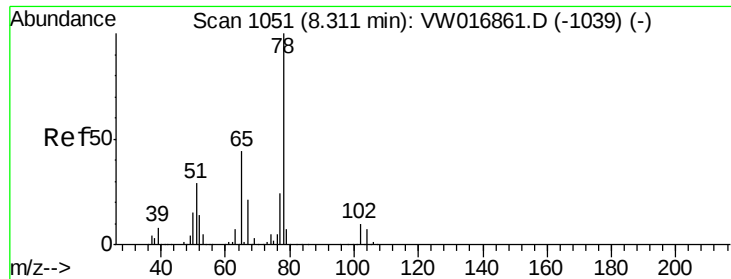
99 63.3 52.4 78.6

61 41.1 31.9 47.9



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW





#33

1,2-Dichloroethane-d4

Concen: 54.702 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

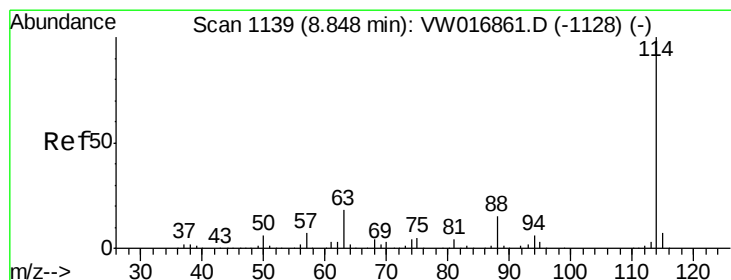
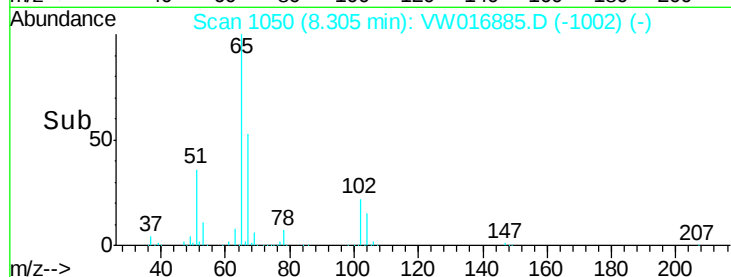
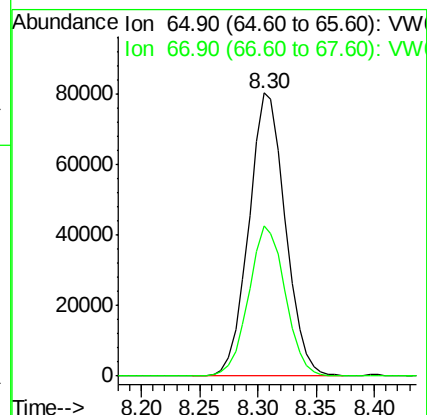
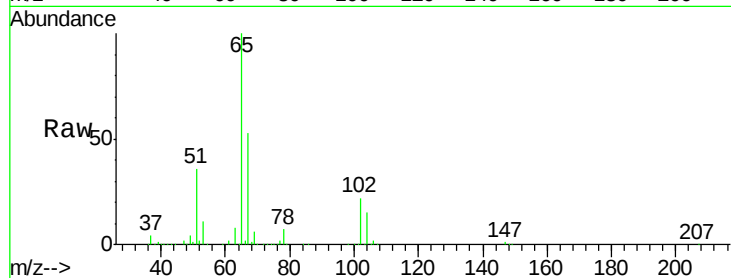
MDL-SOIL-03-QT4-2020

Tot Ion: 65 Resp: 175250

Ion Ratio Lower Upper

65 100

67 53.4 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

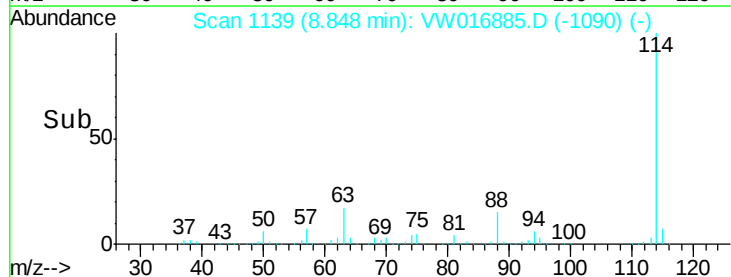
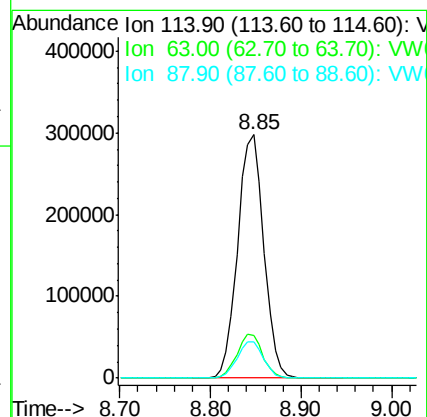
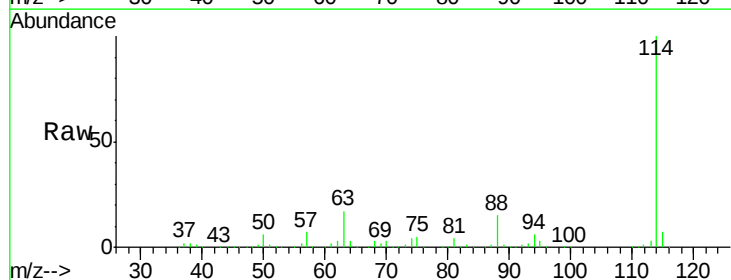
Tgt Ion: 114 Resp: 594995

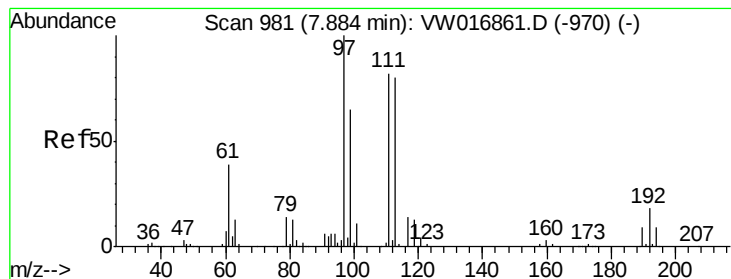
Ion Ratio Lower Upper

114 100

63 17.4 0.0 35.6

88 15.0 0.0 30.4





#35

Dibromofluoromethane

Concen: 51.076 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

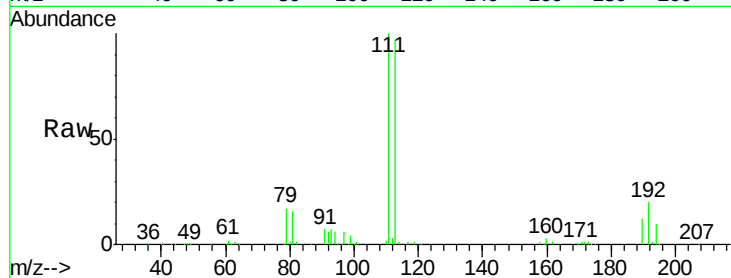
Tot Ion:113 Resp: 186267

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.2

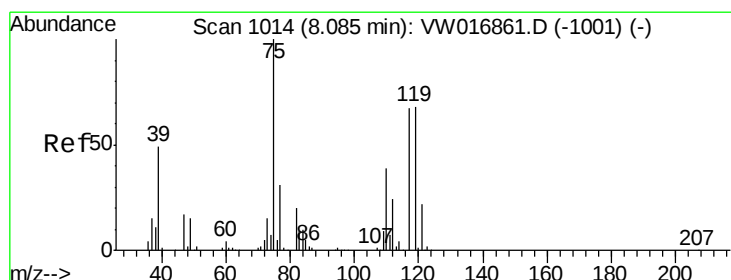
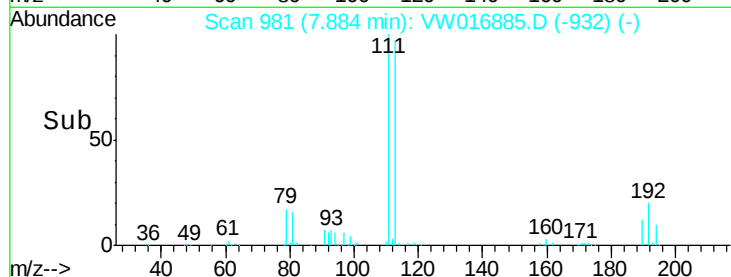
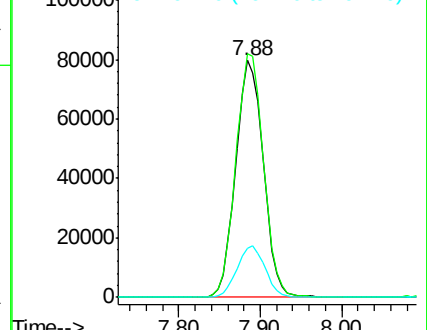
192 22.0 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 2.698 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

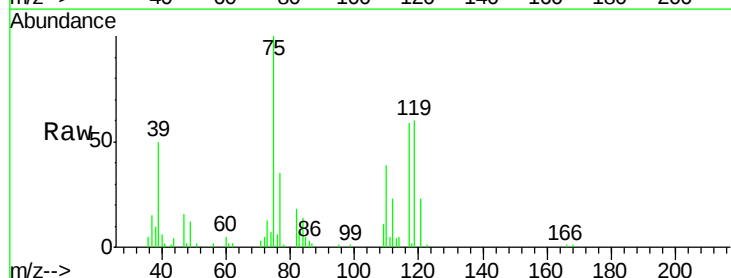
Tgt Ion: 75 Resp: 13875

Ion Ratio Lower Upper

75 100

110 38.3 19.3 57.9

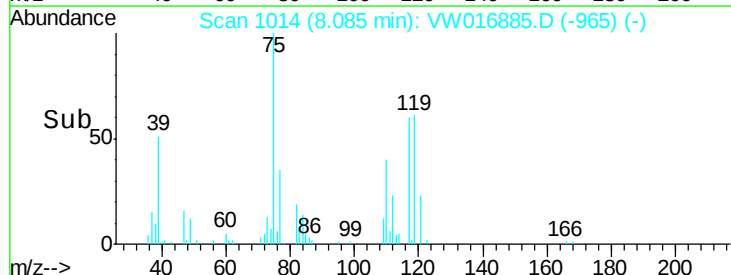
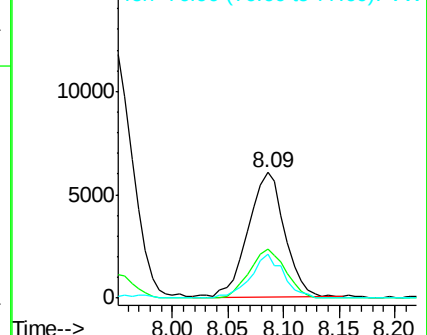
77 31.3 25.0 37.6

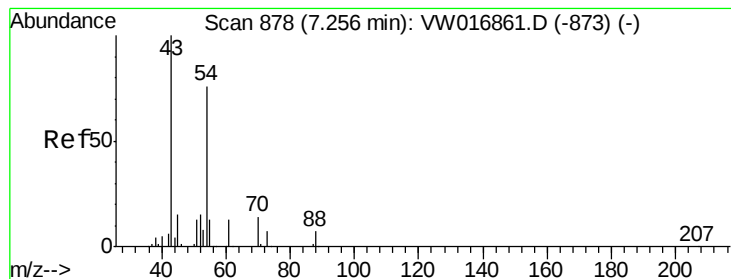


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 3.239 ug/l

RT: 7.26 min Scan# 879

Delta R.T. 0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

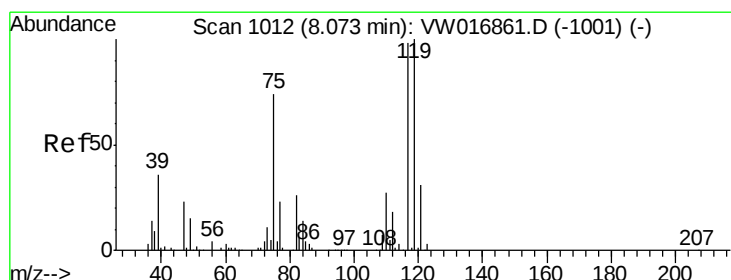
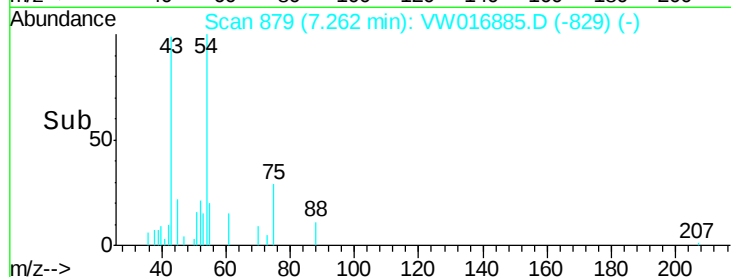
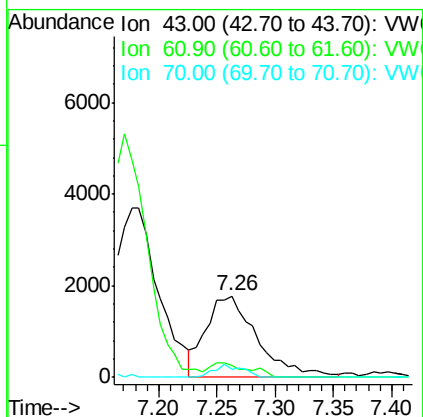
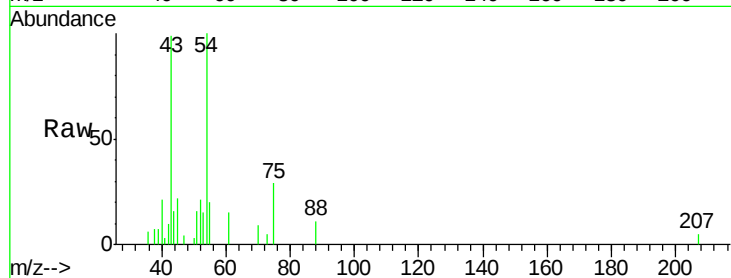
Tot Ion: 43 Resp: 5443

Ion Ratio Lower Upper

43 100

61 13.0 12.0 18.0

70 8.4 9.9 14.9#



#38

Carbon Tetrachloride

Concen: 2.581 ug/l

RT: 8.07 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

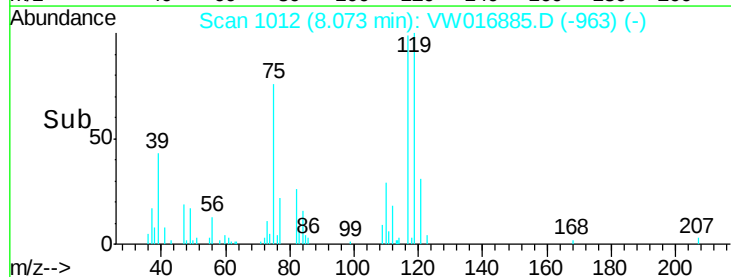
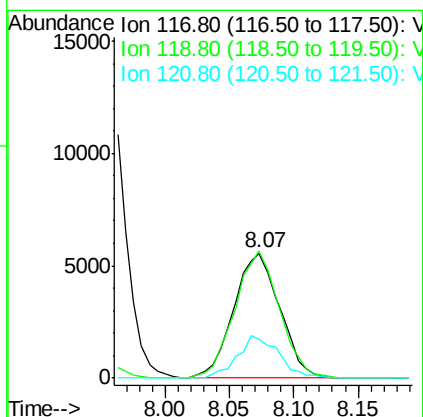
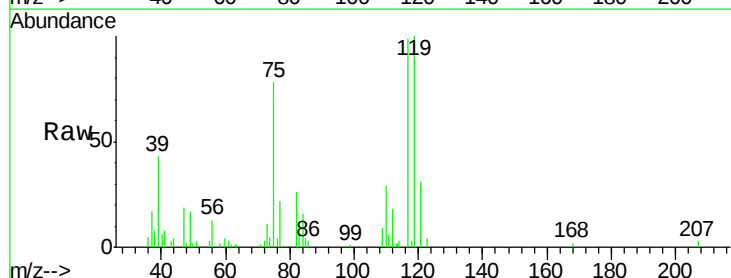
Tgt Ion: 117 Resp: 13801

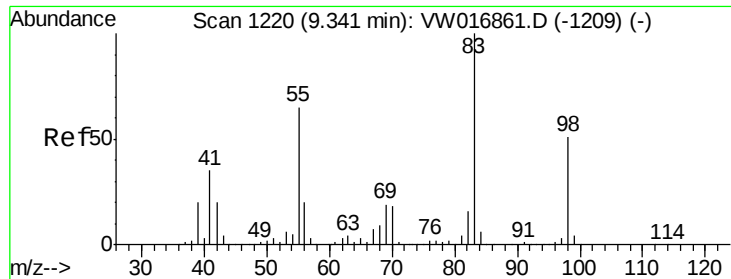
Ion Ratio Lower Upper

117 100

119 101.2 81.6 122.4

121 31.4 25.7 38.5

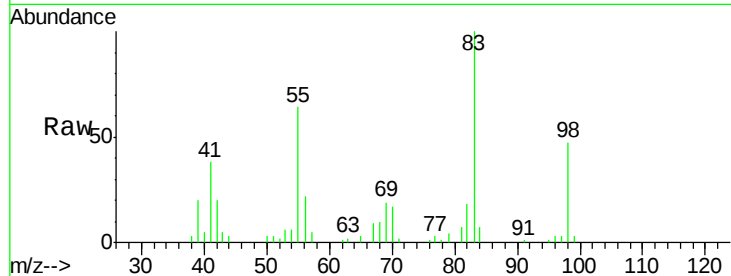




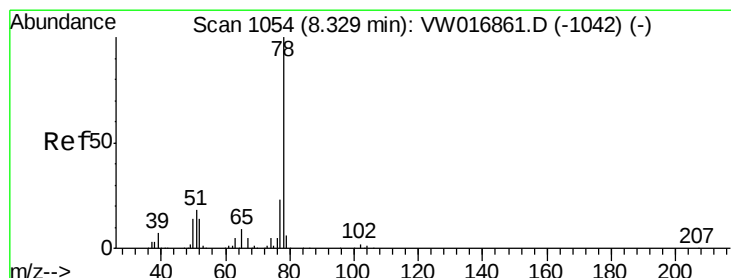
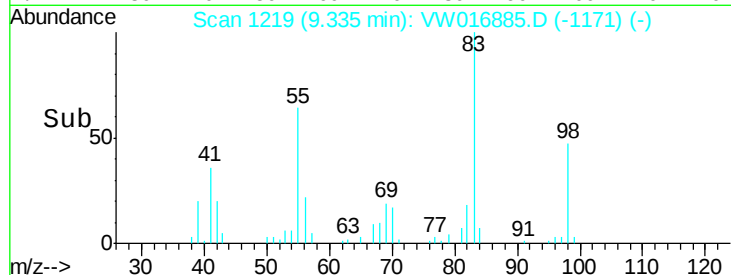
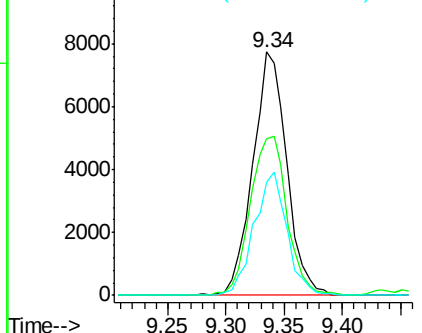
#39
Methvlcvclohexane
Concen: 2.689 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

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

Tot Ion: 83 Resp: 15775
Ion Ratio Lower Upper
83 100
55 64.1 51.7 77.5
98 46.7 41.0 61.4

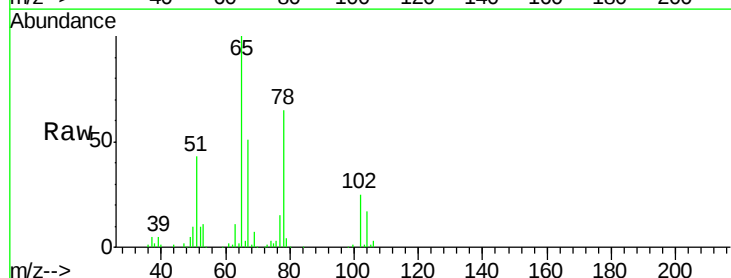


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

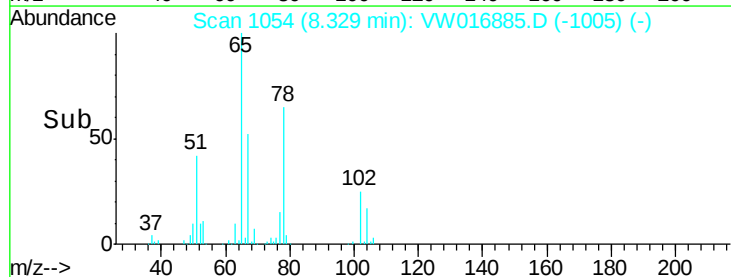
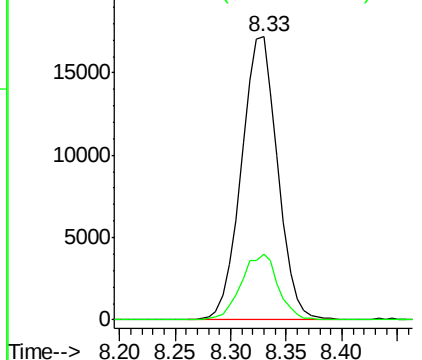


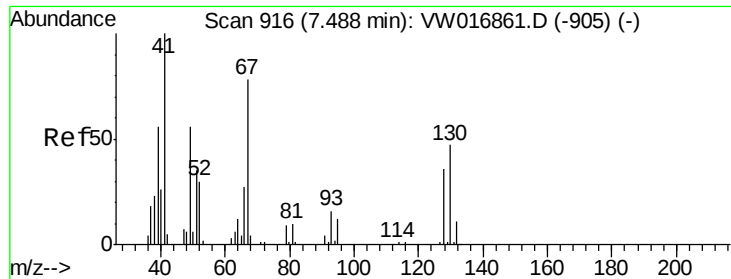
#40
Benzene
Concen: 2.710 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 78 Resp: 38841
Ion Ratio Lower Upper
78 100
77 23.2 18.5 27.7



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW

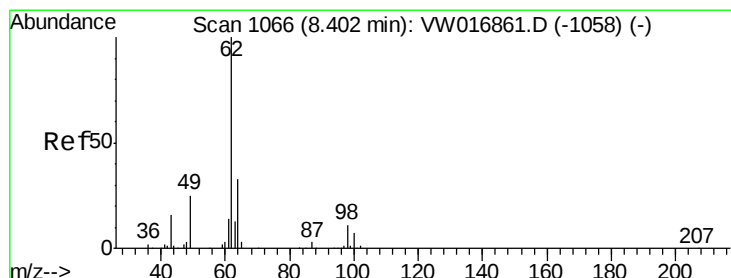
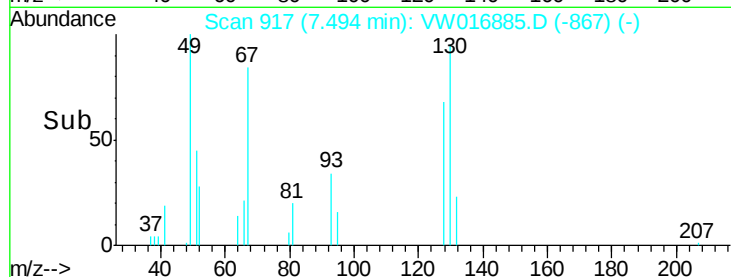
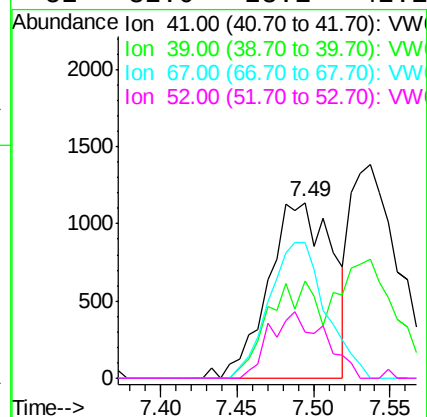
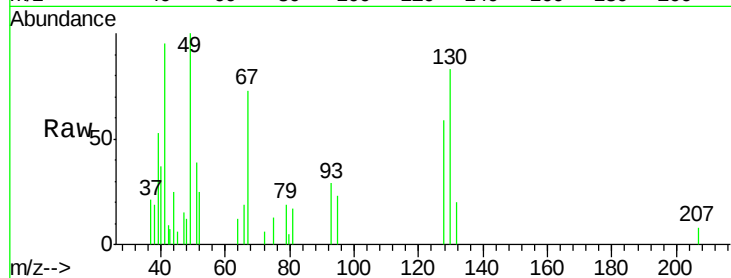




#41
Methacrylonitrile
Concen: 3.331 ug/l
RT: 7.49 min Scan# 917
Delta R.T. 0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

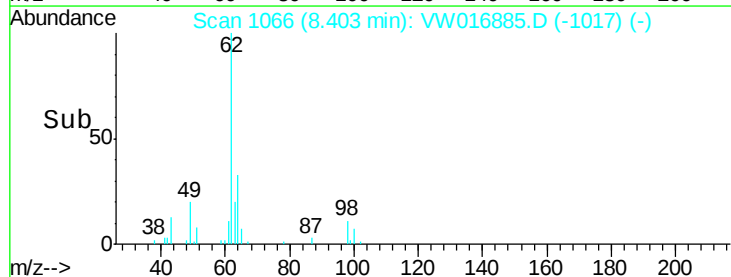
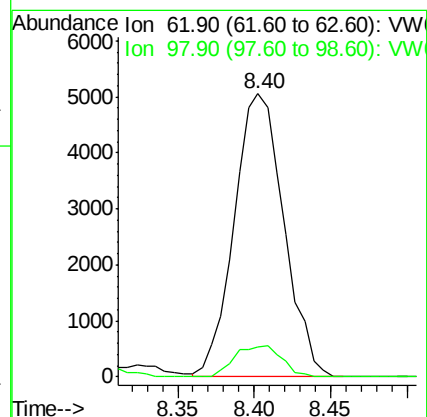
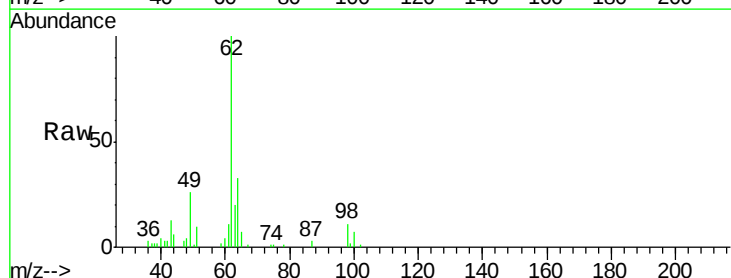
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

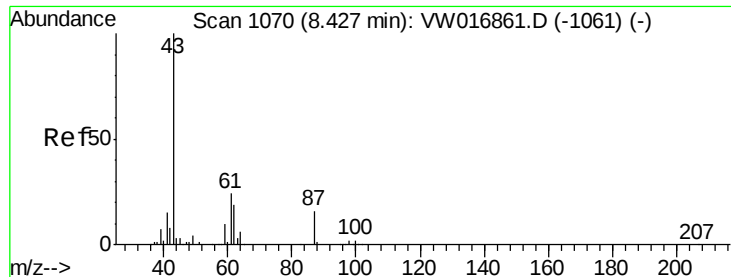
Tot Ion: 41 Resp: 3317
Ion Ratio Lower Upper
41 100
39 26.5 47.0 70.6#
67 68.1 68.6 102.8#
52 32.0 28.1 42.1



#42
1,2-Dichloroethane
Concen: 2.915 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 62 Resp: 11428
Ion Ratio Lower Upper
62 100
98 10.4 0.0 21.0





#43

Isopropyl Acetate

Concen: 2.785 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

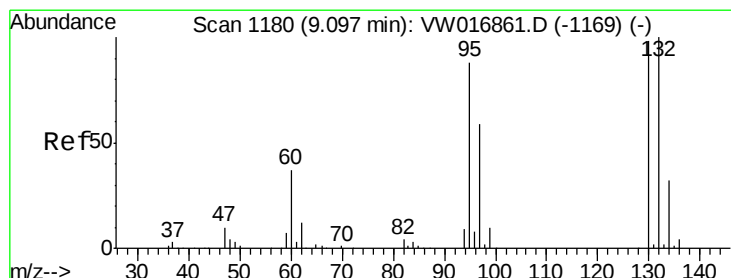
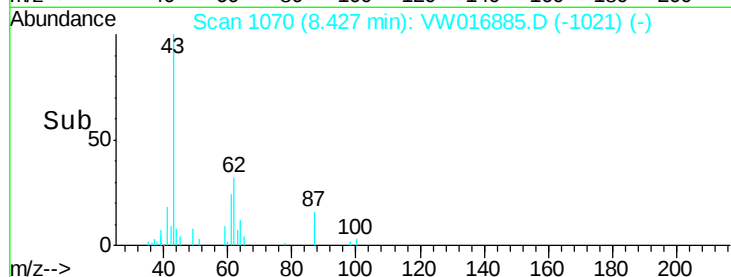
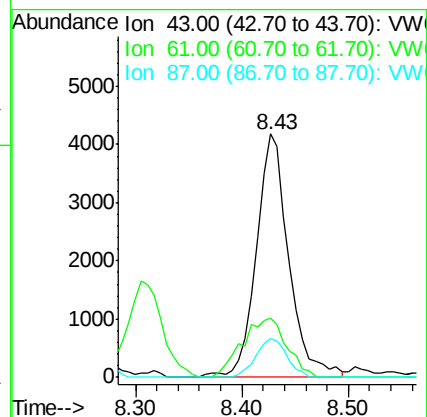
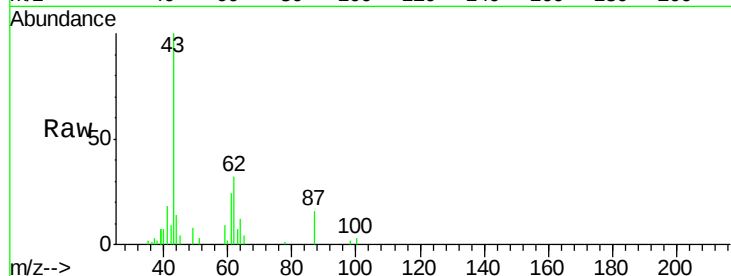
Tot Ion: 43 Resp: 8967

Ion Ratio Lower Upper

43 100

61 33.3 27.5 41.3

87 15.3 13.6 20.4



#44

Trichloroethene

Concen: 2.721 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW016885.D

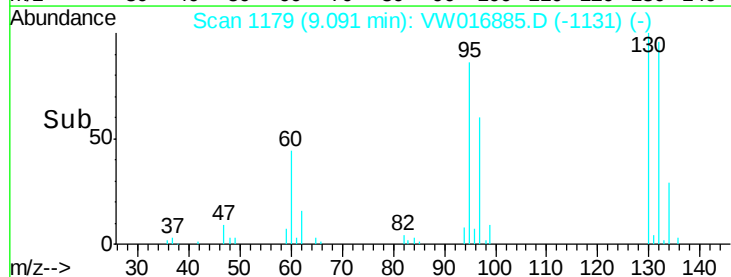
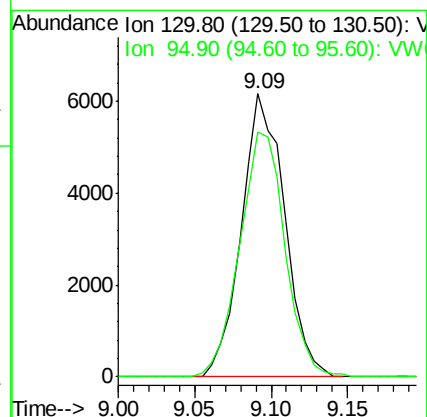
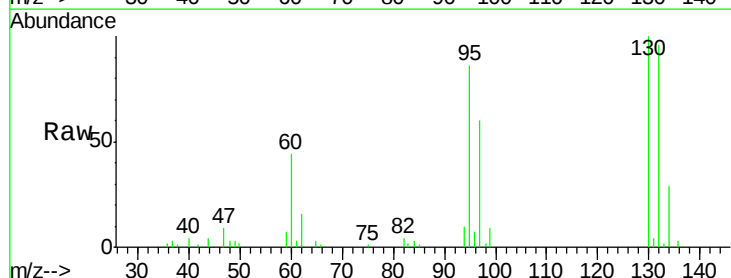
Acq: 12 Oct 2020 16:37

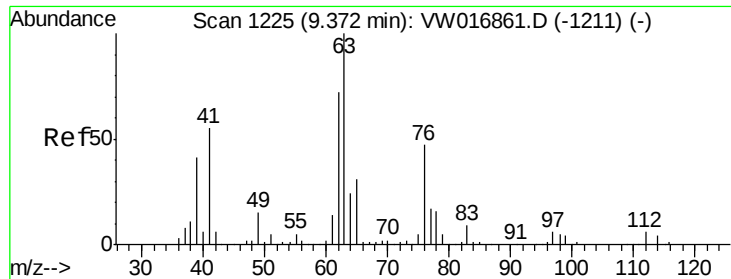
Tgt Ion: 130 Resp: 12072

Ion Ratio Lower Upper

130 100

95 86.4 0.0 180.2

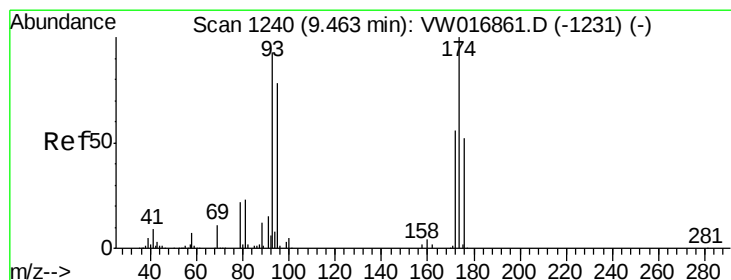
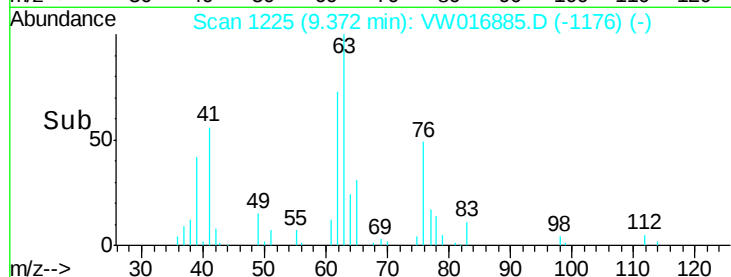
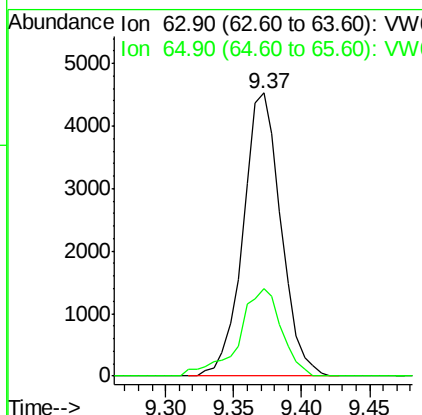
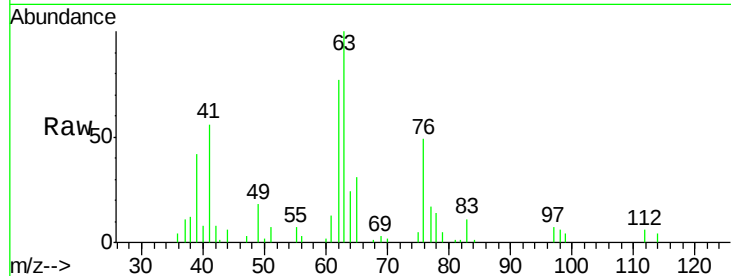




#45
 1,2-Dichloropropane
 Concen: 2.702 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

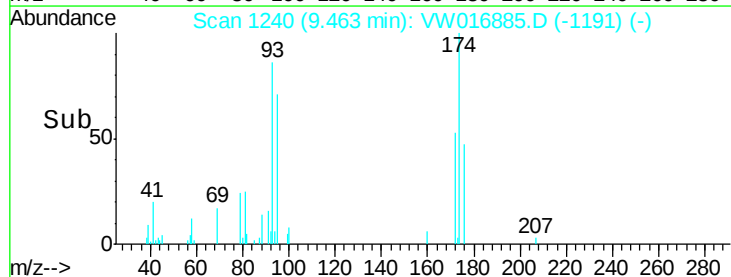
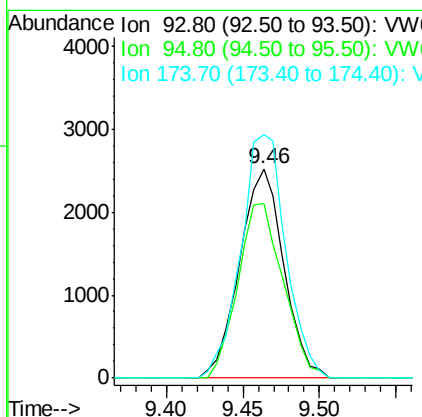
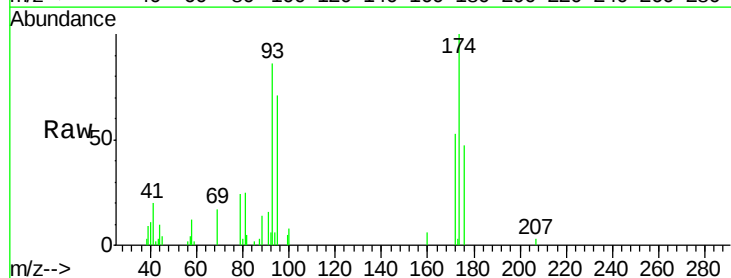
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

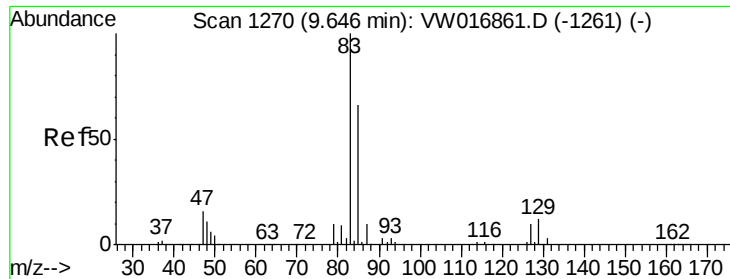
Tot Ion: 63 Resp: 8831
 Ion Ratio Lower Upper
 63 100
 65 30.7 25.1 37.7



#46
 Dibromomethane
 Concen: 2.709 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion: 93 Resp: 5065
 Ion Ratio Lower Upper
 93 100
 95 85.2 66.5 99.7
 174 118.5 91.0 136.6





#47

Bromodichloromethane

Concen: 2.666 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

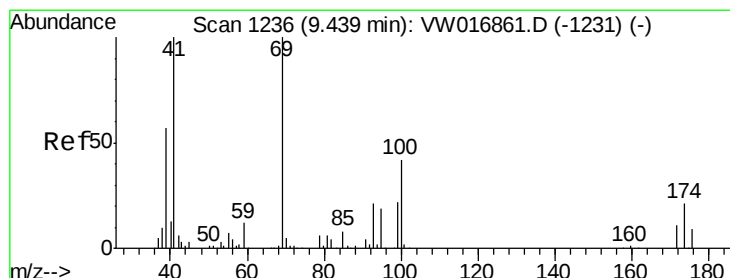
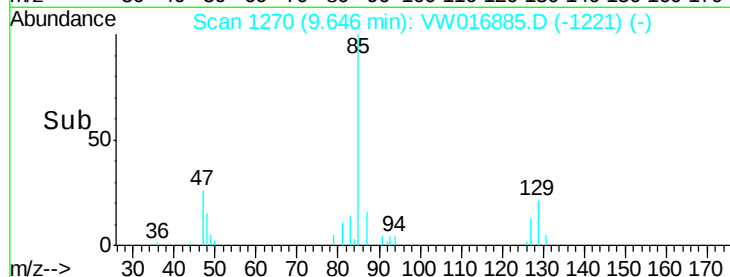
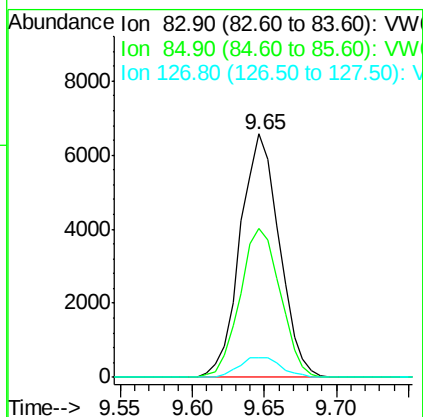
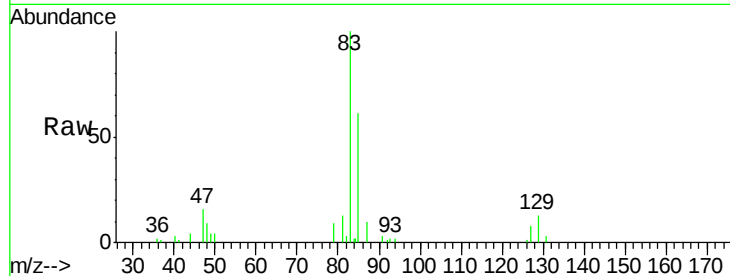
Tot Ion: 83 Resp: 12390

Ion Ratio Lower Upper

83 100

85 61.0 52.7 79.1

127 7.8 7.8 11.6



#48

Methyl methacrylate

Concen: 2.880 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

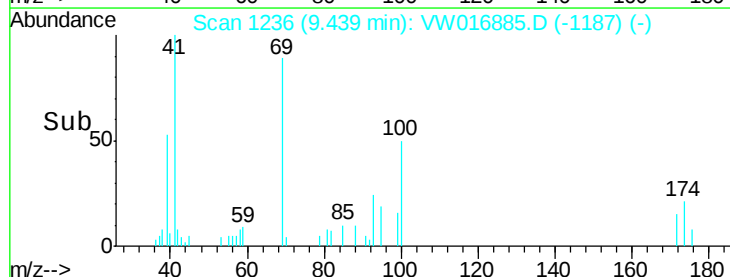
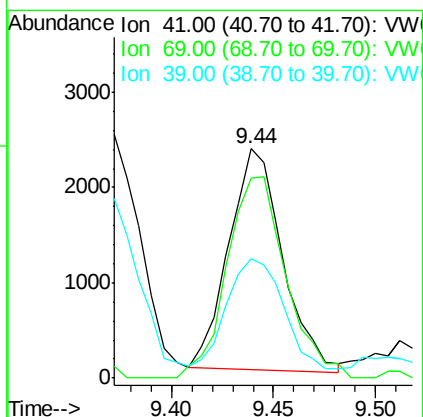
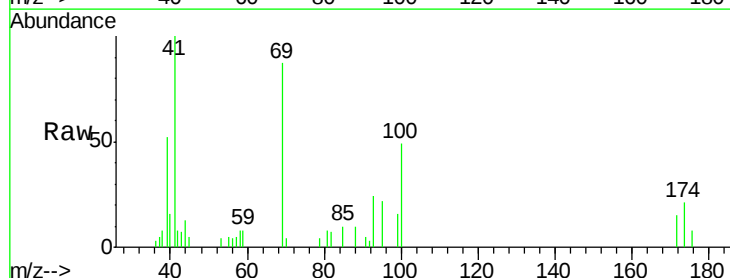
Tgt Ion: 41 Resp: 4273

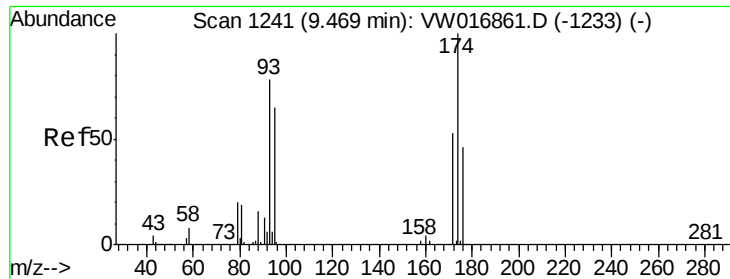
Ion Ratio Lower Upper

41 100

69 99.5 83.5 125.3

39 61.2 50.9 76.3





#49

1,4-Dioxane

Concen: 52.319 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.02 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

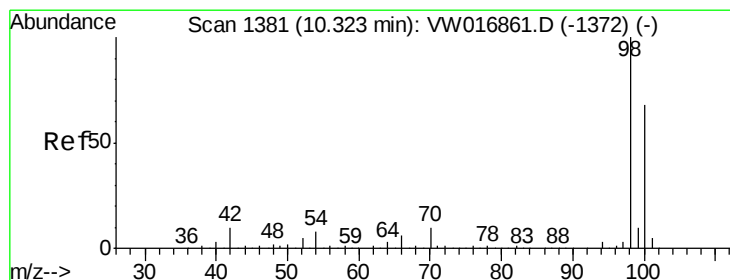
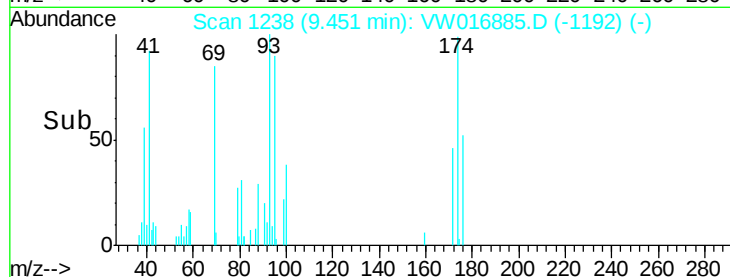
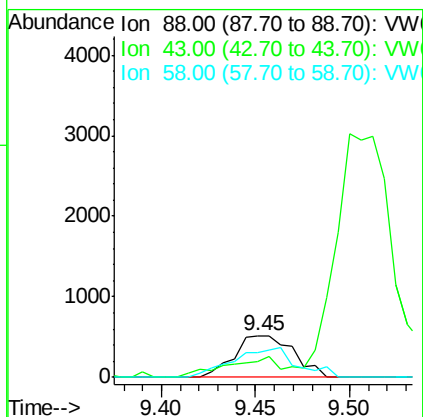
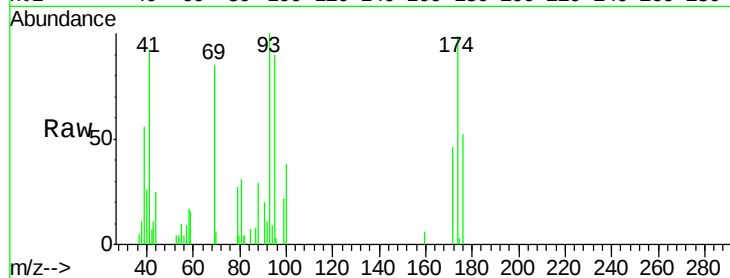
Tot Ion: 88 Resp: 1125

Ion Ratio Lower Upper

88 100

43 41.8 0.0 0.0#

58 75.4 54.0 81.0



#50

Toluene-d8

Concen: 51.366 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW016885.D

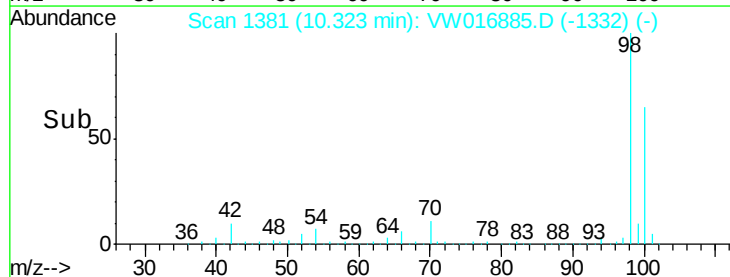
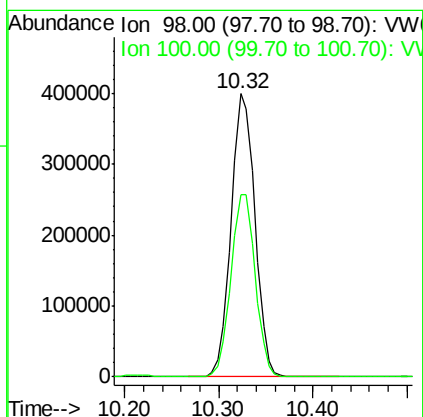
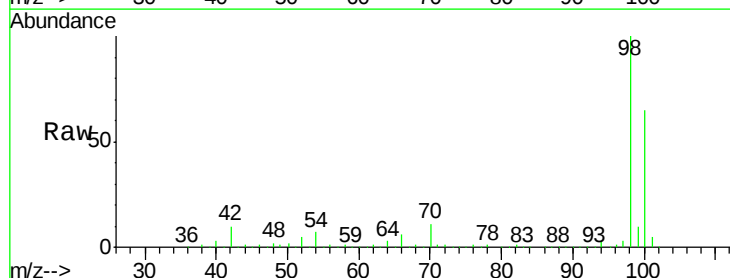
Acq: 12 Oct 2020 16:37

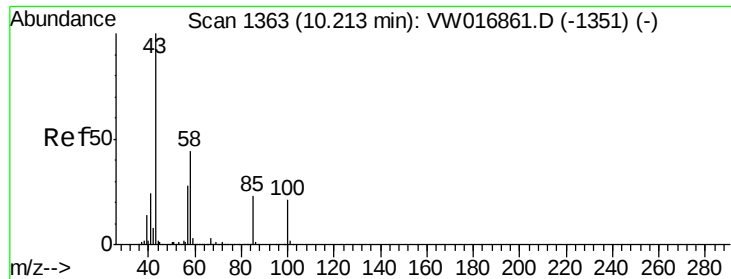
Tgt Ion: 98 Resp: 702373

Ion Ratio Lower Upper

98 100

100 65.7 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 14.865 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

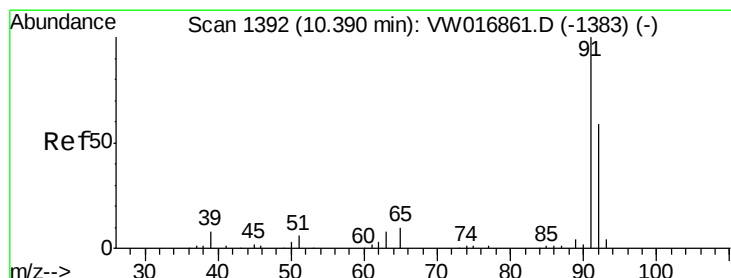
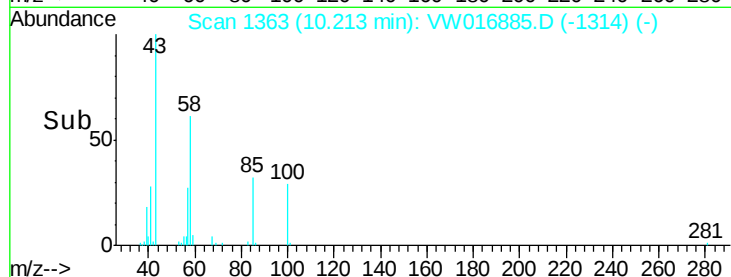
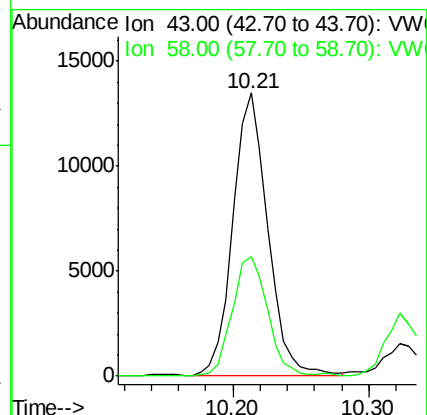
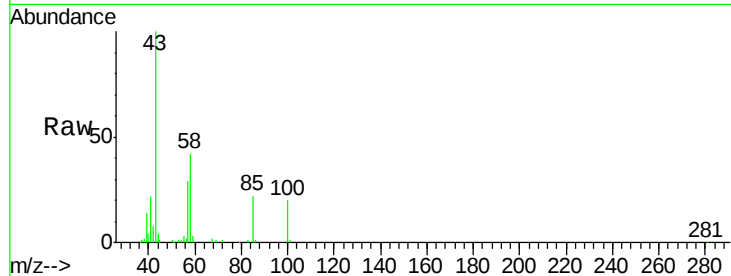
MDL-SOIL-03-QT4-2020

Tot Ion: 43 Resp: 24210

Ion Ratio Lower Upper

43 100

58 42.7 34.7 52.1



#52

Toluene

Concen: 2.680 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW016885.D

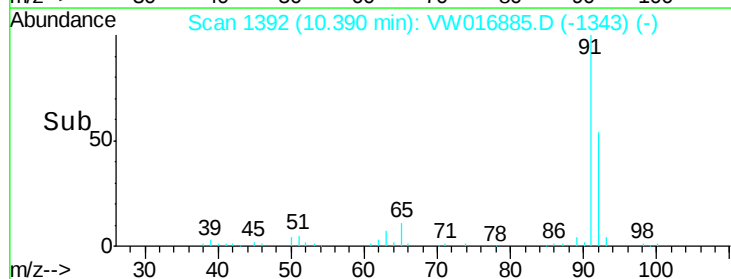
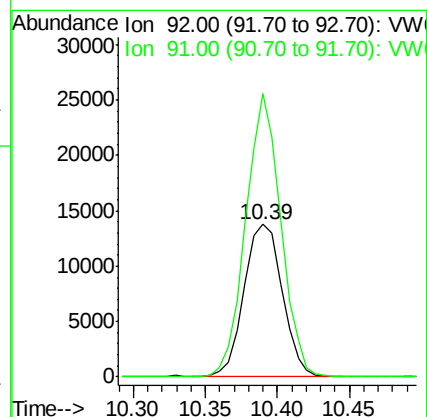
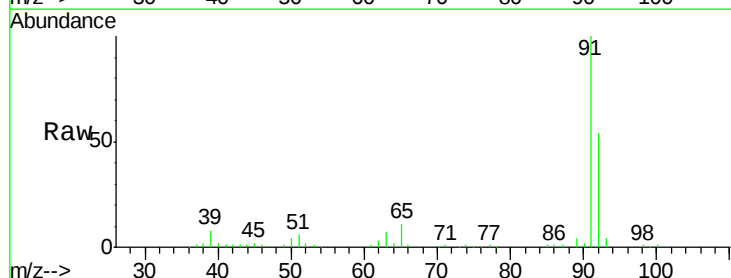
Acq: 12 Oct 2020 16:37

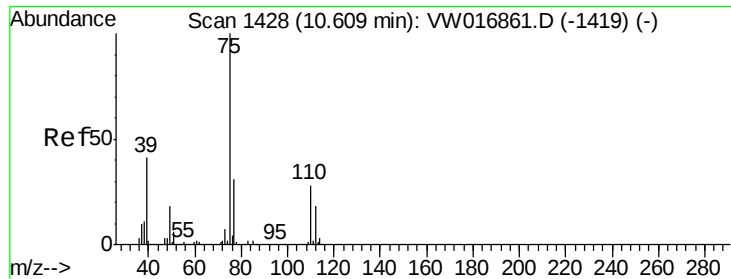
Tgt Ion: 92 Resp: 25388

Ion Ratio Lower Upper

92 100

91 170.0 134.7 202.1





#53

t-1,3-Dichloropropene

Concen: 2.496 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

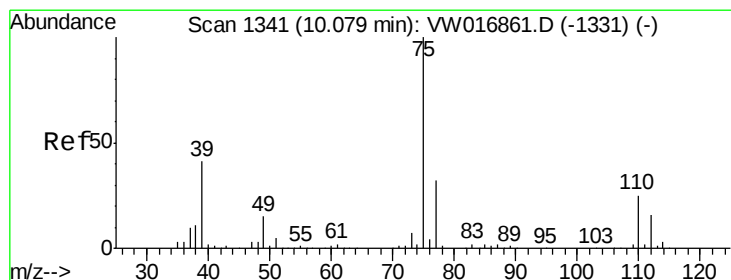
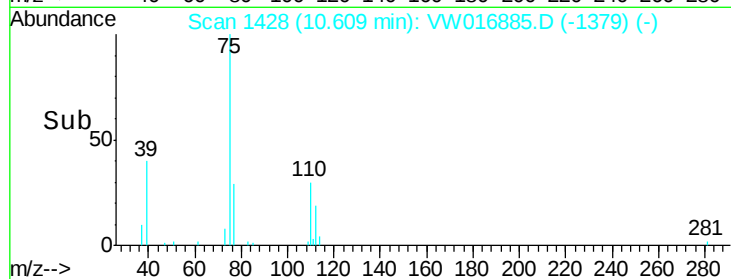
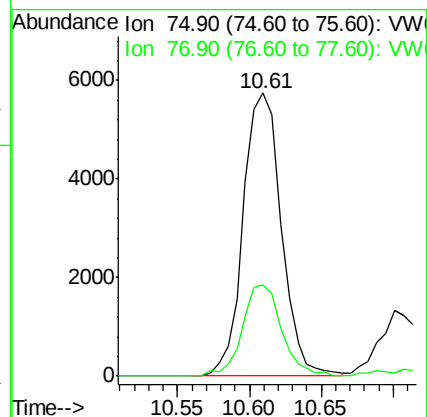
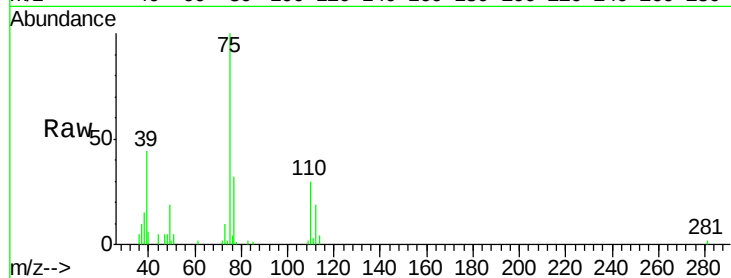
MDL-SOIL-03-QT4-2020

Tot Ion: 75 Resp: 10561

Ion Ratio Lower Upper

75 100

77 32.1 24.8 37.2



#54

cis-1,3-Dichloropropene

Concen: 2.561 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

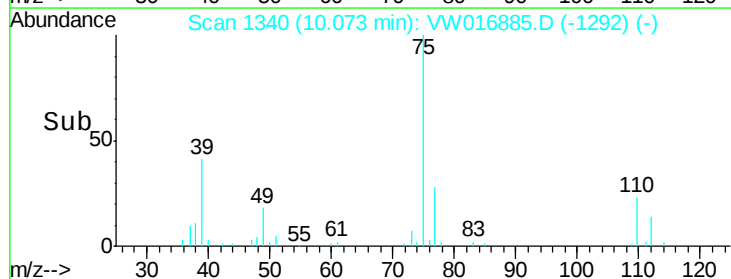
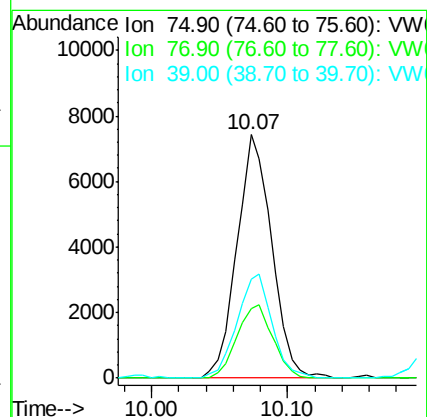
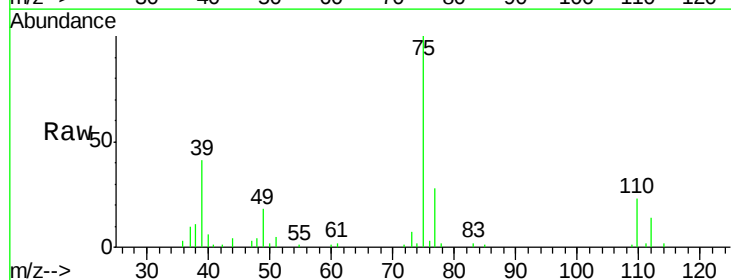
Tgt Ion: 75 Resp: 13239

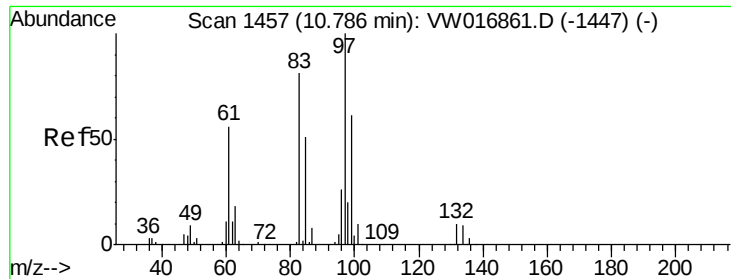
Ion Ratio Lower Upper

75 100

77 28.3 25.8 38.6

39 40.9 32.9 49.3

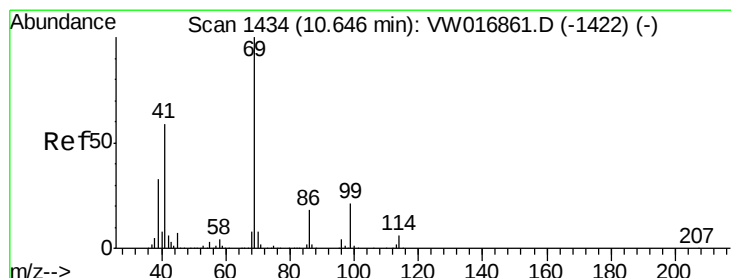
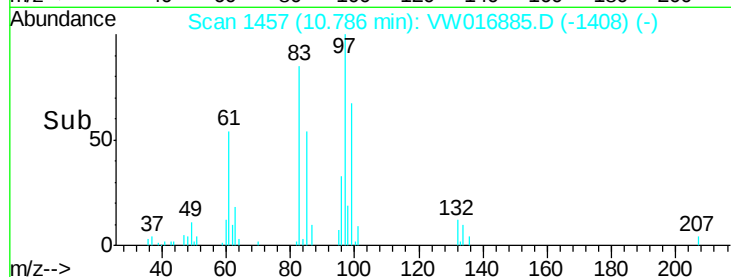
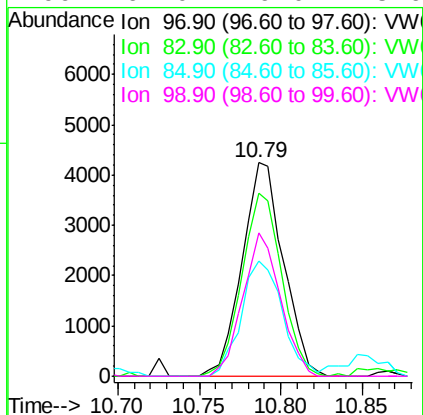
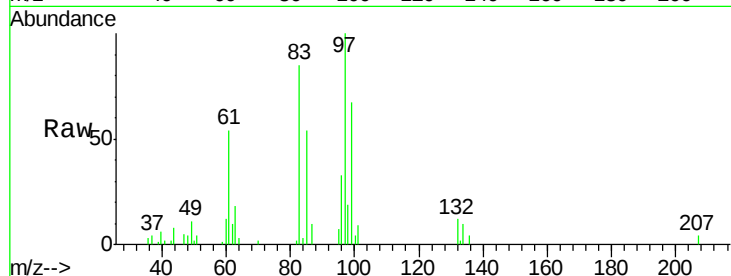




#55
 1,1,2-Trichloroethane
 Concen: 2.806 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

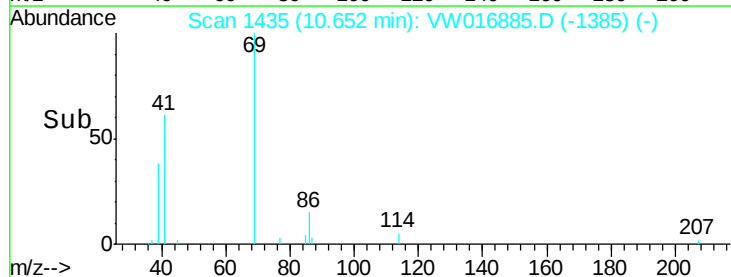
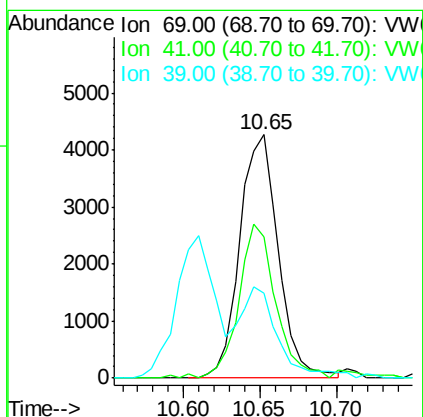
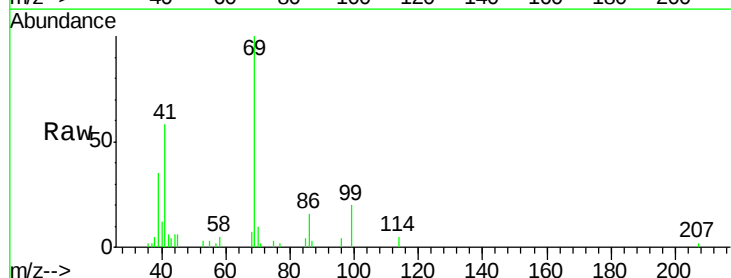
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

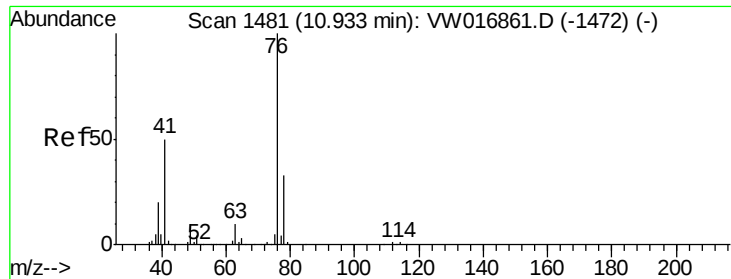
Tot Ion:	97	Resp:	7467
Ion	Ratio	Lower	Upper
97	100		
83	85.5	64.6	97.0
85	54.2	40.6	61.0
99	67.0	49.0	73.6



#56
 Ethyl methacrylate
 Concen: 2.584 ug/l
 RT: 10.65 min Scan# 1435
 Delta R.T. 0.01 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion:	69	Resp:	7479
Ion	Ratio	Lower	Upper
69	100		
41	60.4	46.3	69.5
39	37.6	25.9	38.9

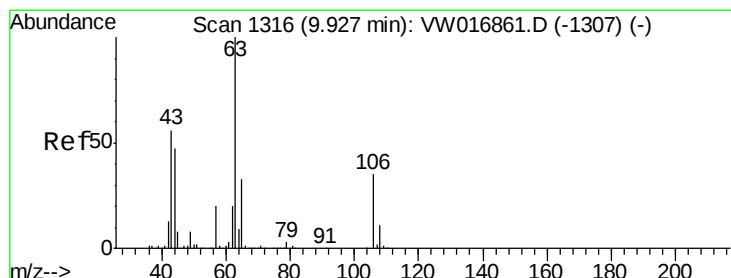
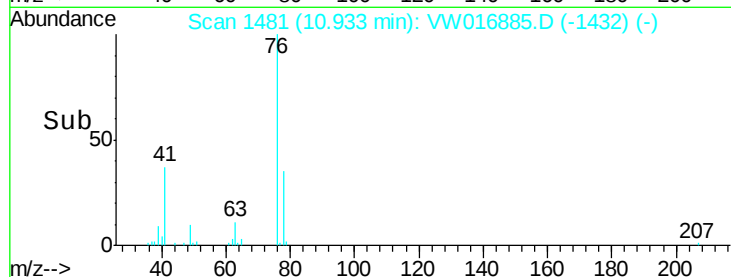
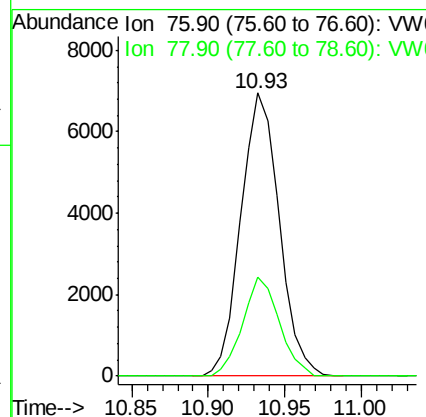
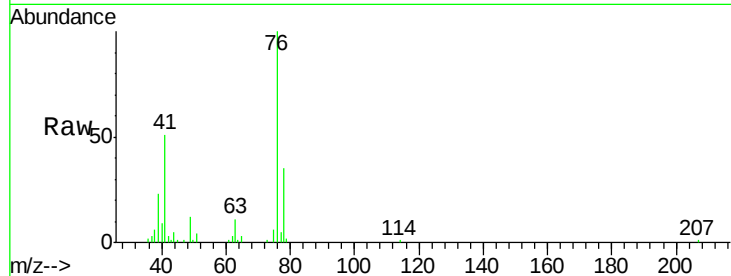




#57
 1,3-Dichloropropane
 Concen: 2.751 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

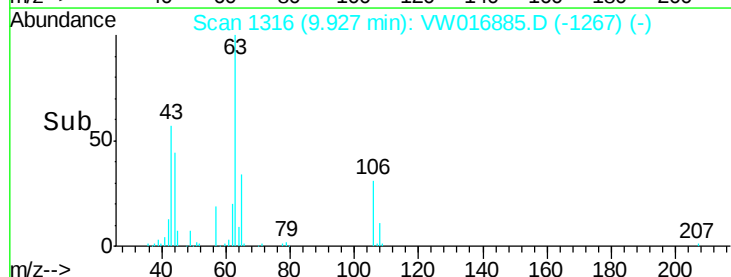
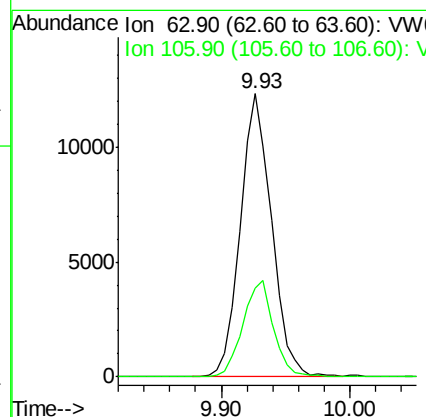
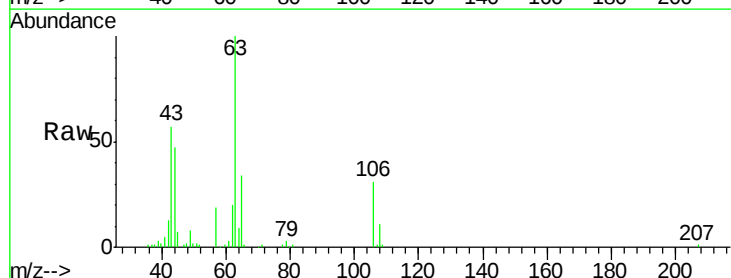
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

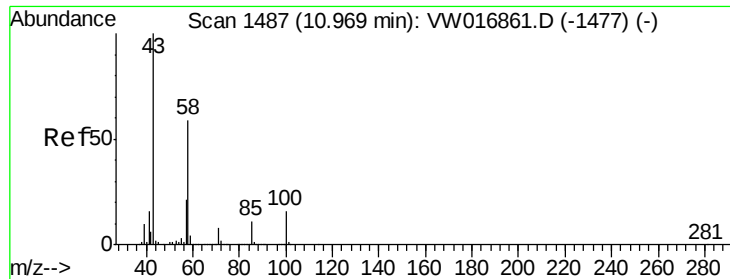
Tot Ion: 76 Resp: 12110
 Ion Ratio Lower Upper
 76 100
 78 33.3 26.0 39.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.887 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion: 63 Resp: 20672
 Ion Ratio Lower Upper
 63 100
 106 33.1 27.0 40.4

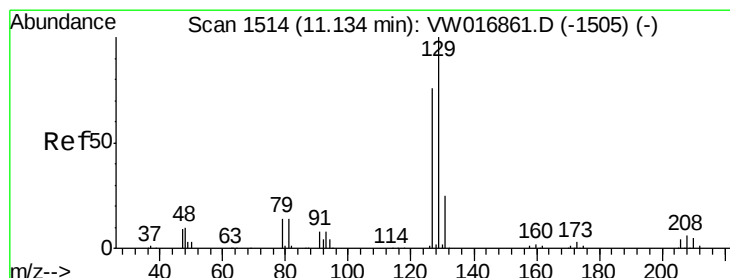
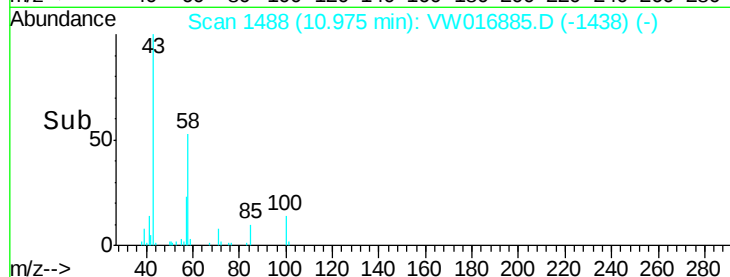
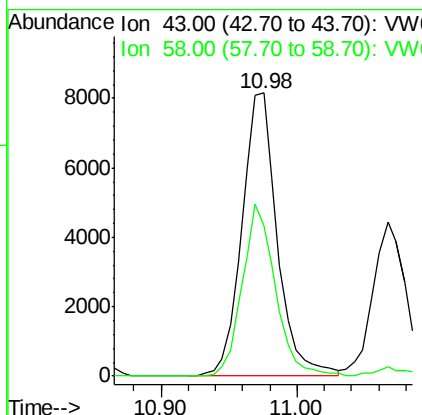
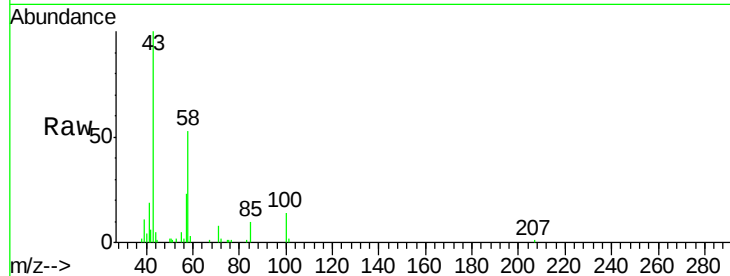




#59
2-Hexanone
Concen: 13.741 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

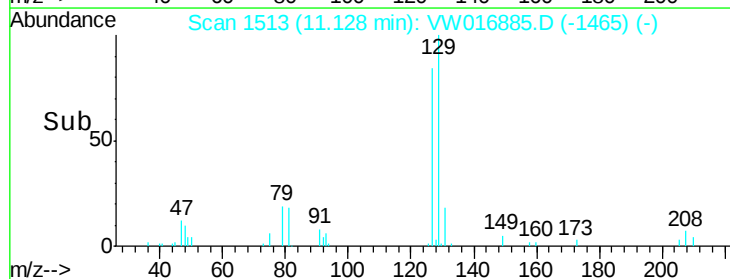
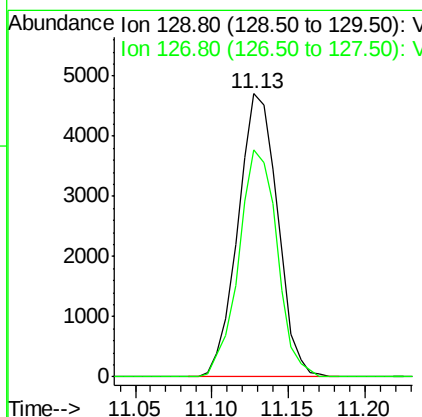
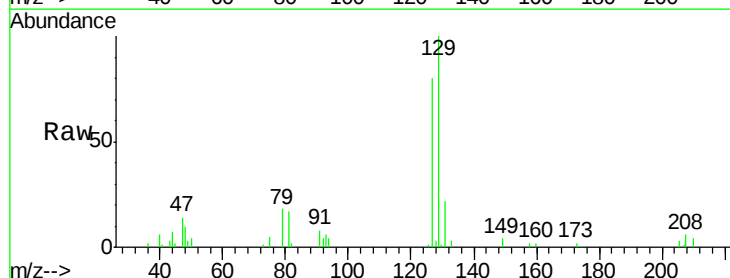
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

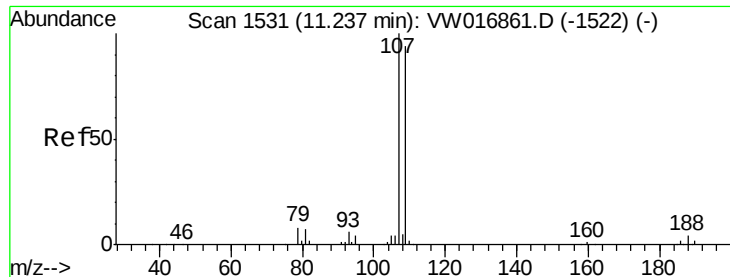
Tot Ion: 43 Resp: 14807
Ion Ratio Lower Upper
43 100
58 56.9 29.5 88.5



#60
Dibromochloromethane
Concen: 2.598 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 129 Resp: 8480
Ion Ratio Lower Upper
129 100
127 77.9 38.9 116.6





#61

1,2-Dibromoethane

Concen: 2.783 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

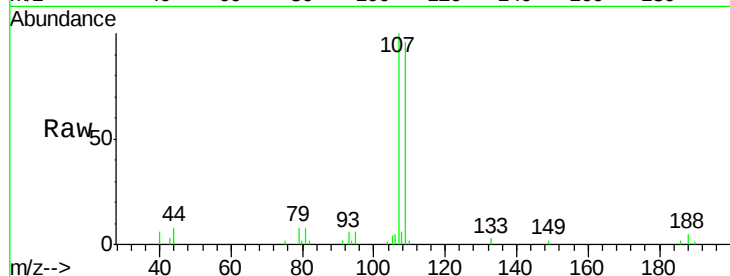
MDL-SOIL-03-QT4-2020

Tot Ion: 107 Resp: 7333

Ion Ratio Lower Upper

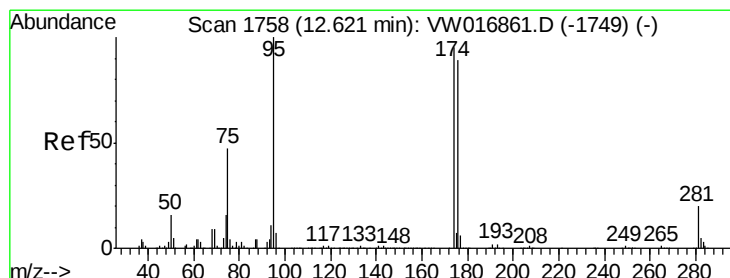
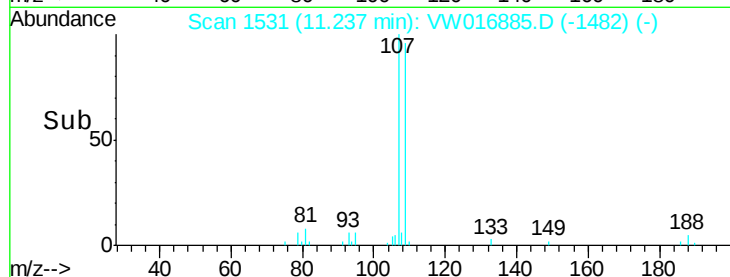
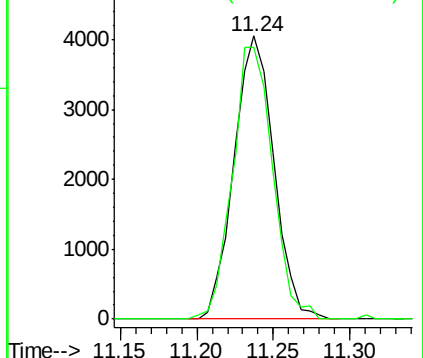
107 100

109 97.0 74.7 112.1



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 52.028 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

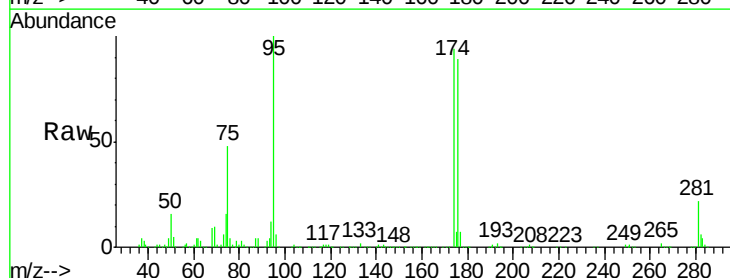
Tgt Ion: 95 Resp: 245327

Ion Ratio Lower Upper

95 100

174 92.3 0.0 180.6

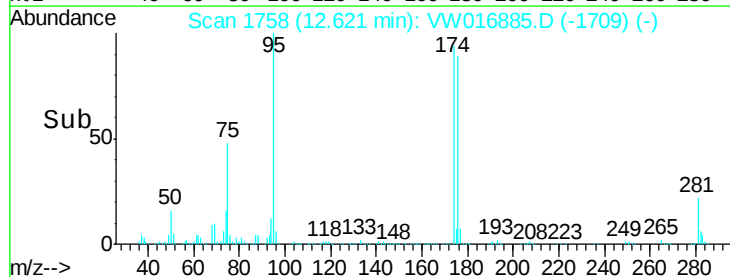
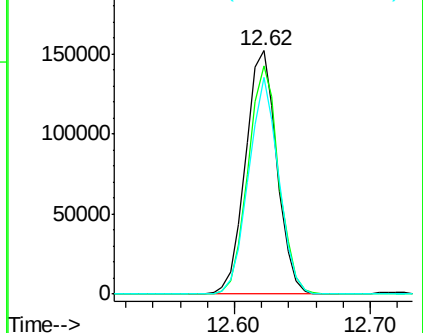
176 86.0 0.0 177.6

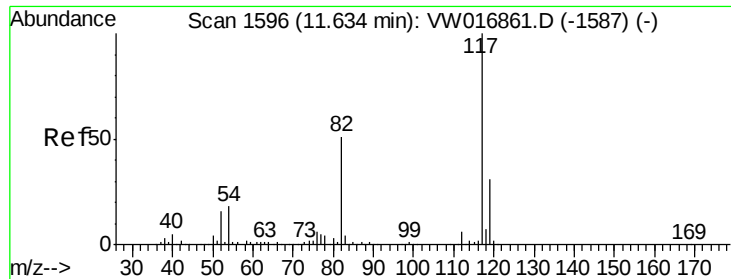


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

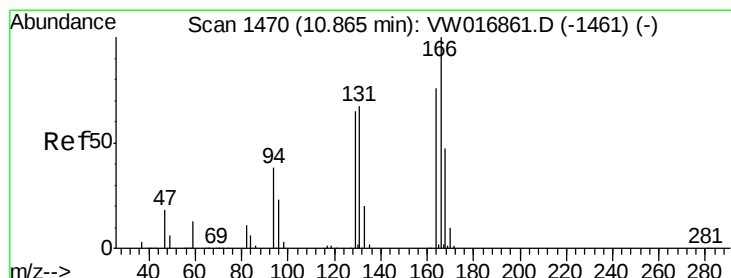
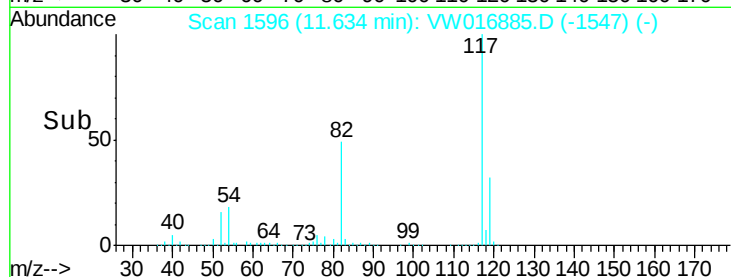
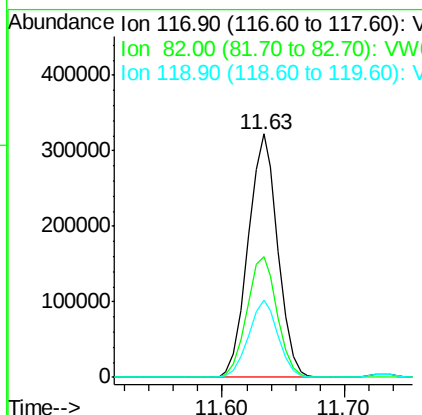
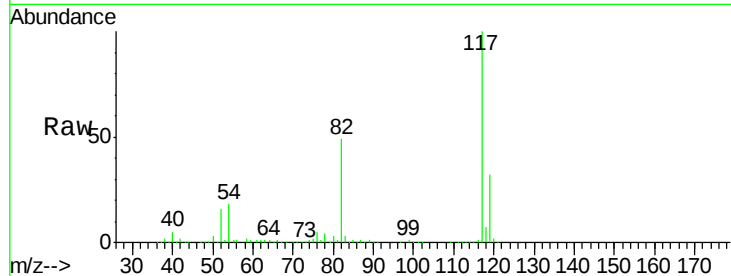




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

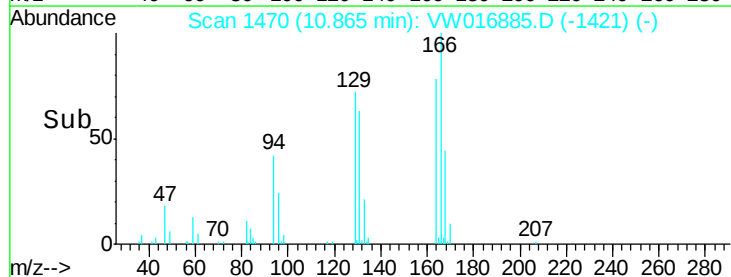
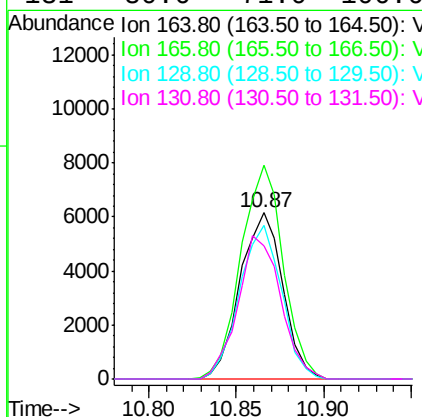
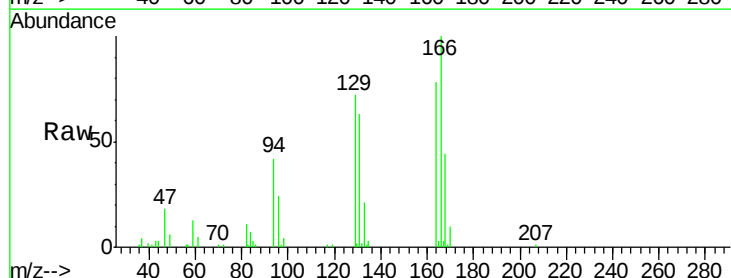
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

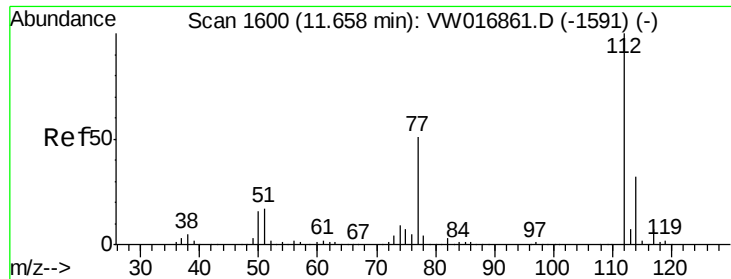
Tot Ion:117 Resp: 540753
Ion Ratio Lower Upper
117 100
82 49.4 40.7 61.1
119 31.8 25.0 37.4



#64
Tetrachloroethene
Concen: 2.721 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion:164 Resp: 10483
Ion Ratio Lower Upper
164 100
166 128.8 105.3 157.9
129 92.8 68.8 103.2
131 80.6 71.0 106.6

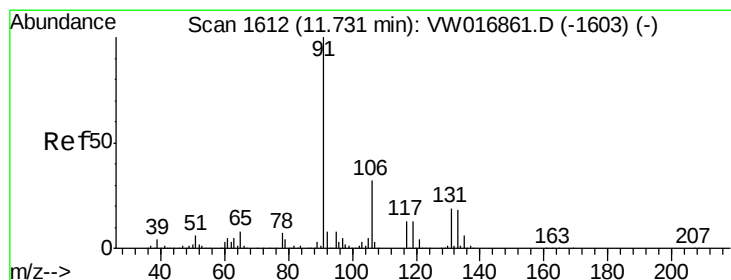
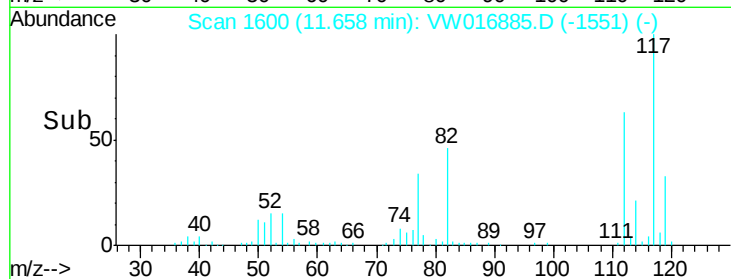
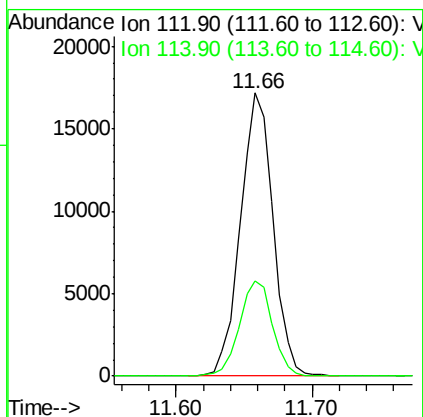
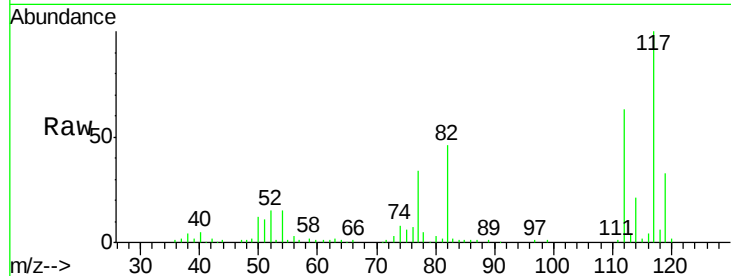




#65
Chlorobenzene
Concen: 2.708 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

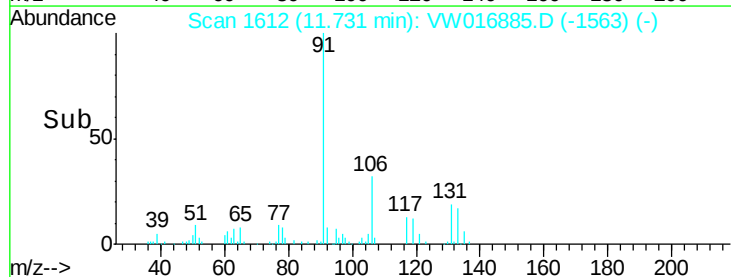
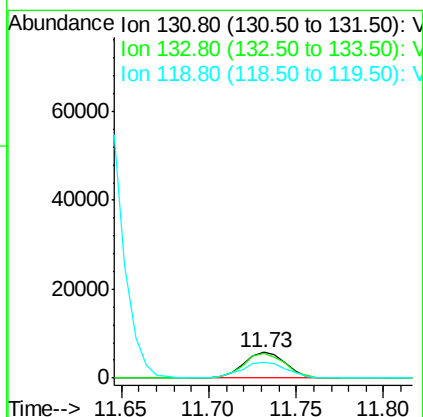
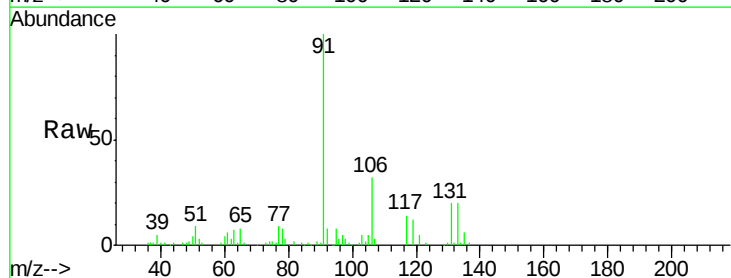
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

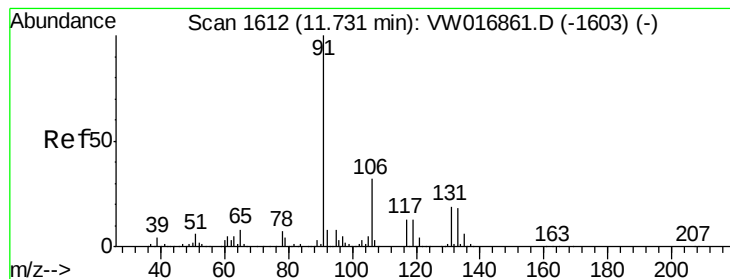
Tot Ion:112 Resp: 28724
Ion Ratio Lower Upper
112 100
114 33.7 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 2.620 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion:131 Resp: 9828
Ion Ratio Lower Upper
131 100
133 95.3 48.1 144.3
119 64.8 32.5 97.4





#67

Ethyl Benzene

Concen: 2.586 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

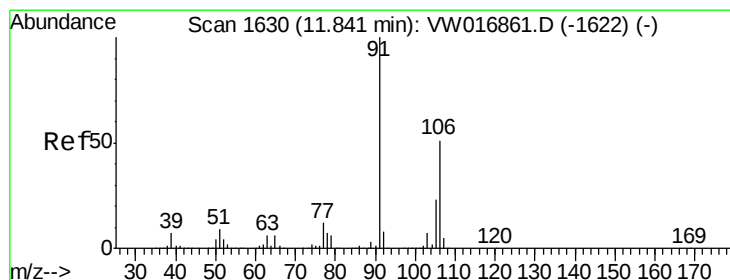
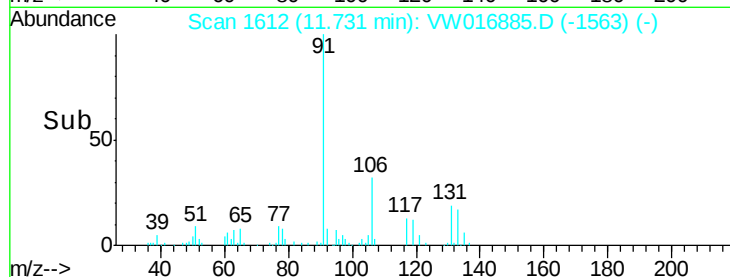
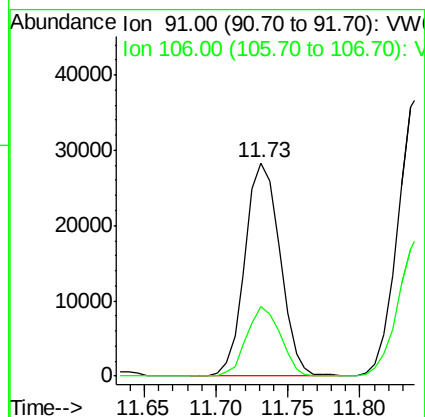
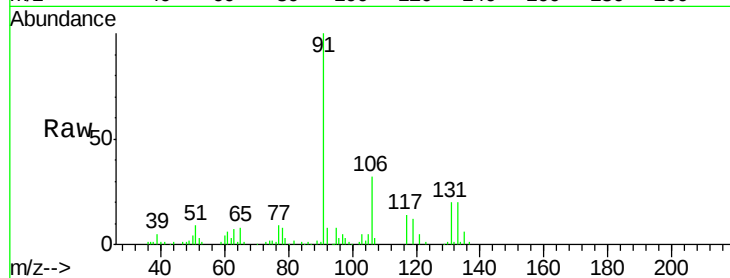
MDL-SOIL-03-QT4-2020

Tot Ion: 91 Resp: 47789

Ion Ratio Lower Upper

91 100

106 32.3 25.9 38.9



#68

m/p-Xylenes

Concen: 5.027 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW016885.D

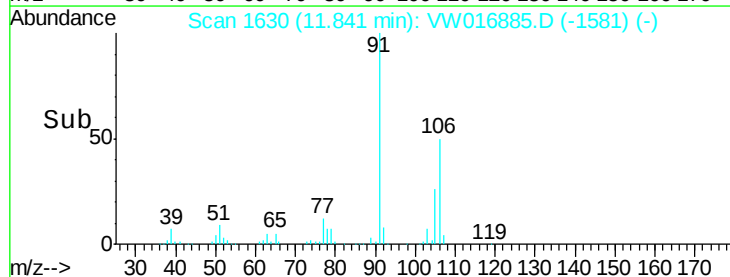
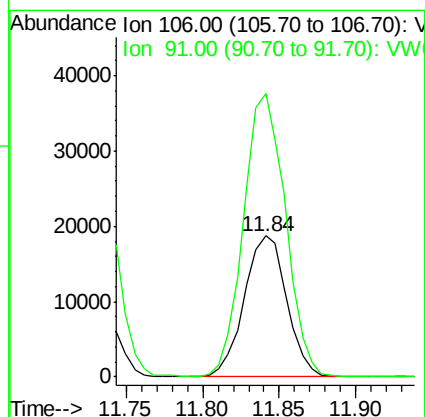
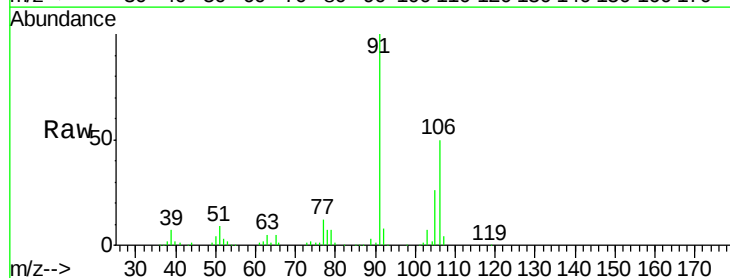
Acq: 12 Oct 2020 16:37

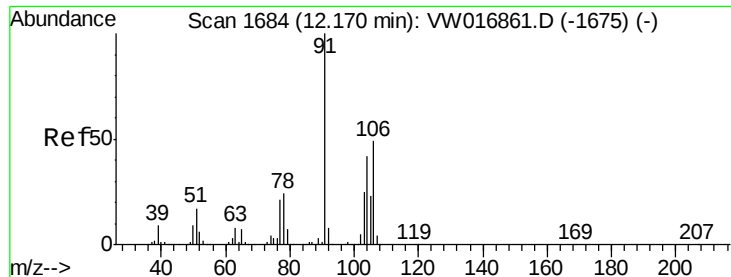
Tgt Ion: 106 Resp: 36139

Ion Ratio Lower Upper

106 100

91 199.4 157.4 236.0

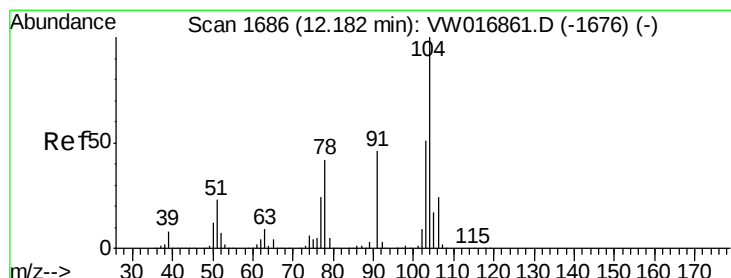
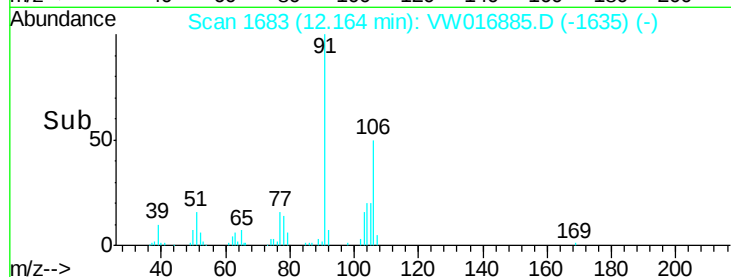
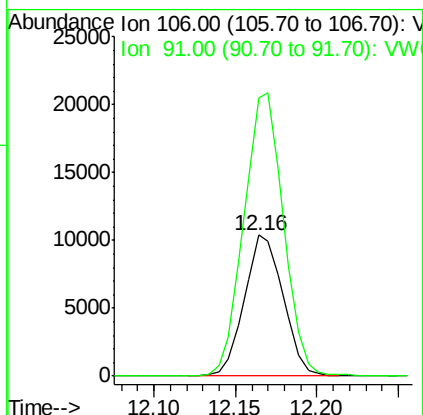
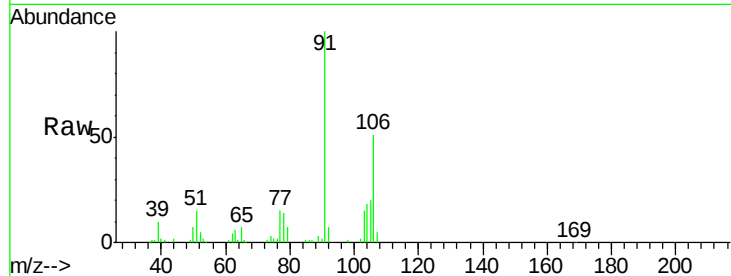




#69
o-Xylene
Concen: 2.609 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

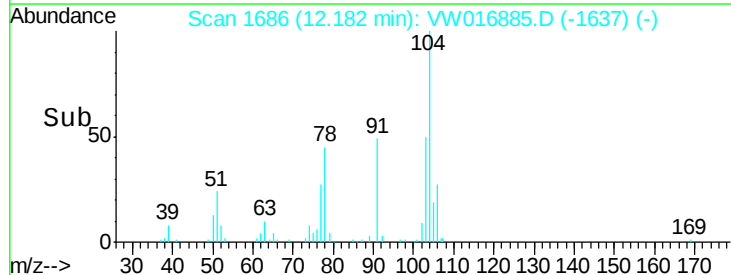
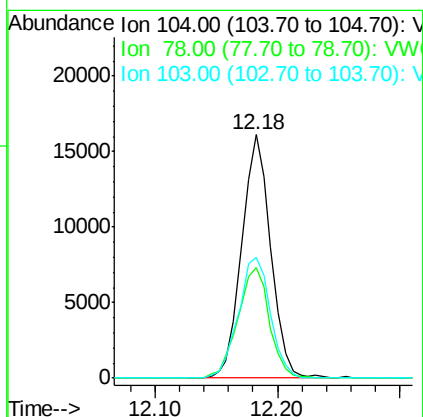
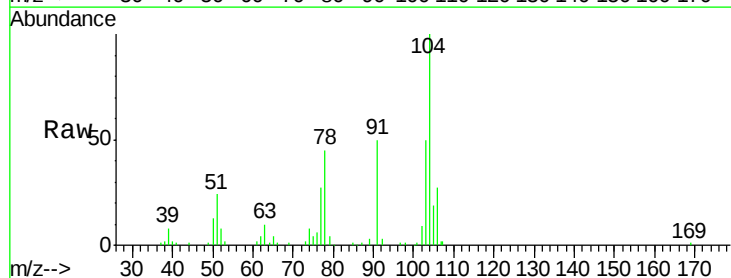
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

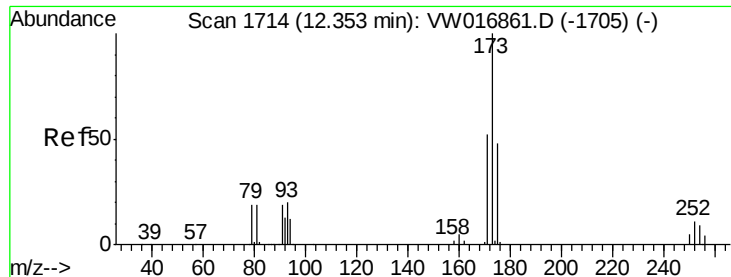
Tot Ion:106 Resp: 17210
Ion Ratio Lower Upper
106 100
91 205.0 103.6 310.9



#70
Styrene
Concen: 2.406 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion:104 Resp: 26416
Ion Ratio Lower Upper
104 100
78 49.6 37.6 56.4
103 54.7 43.6 65.4

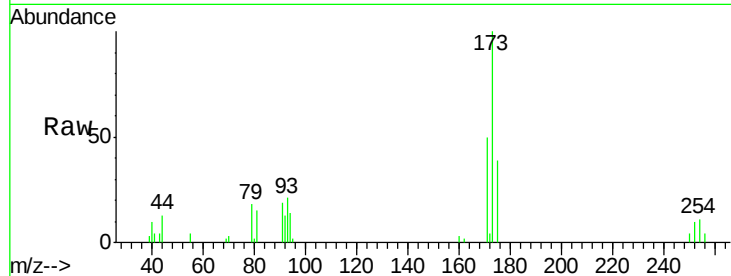




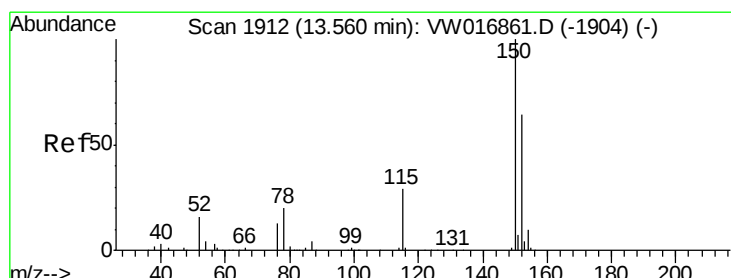
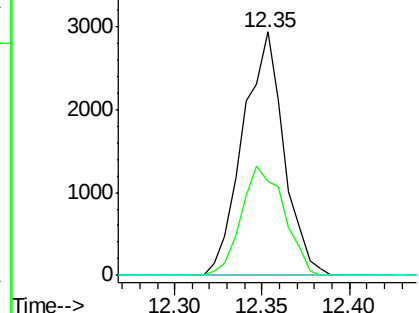
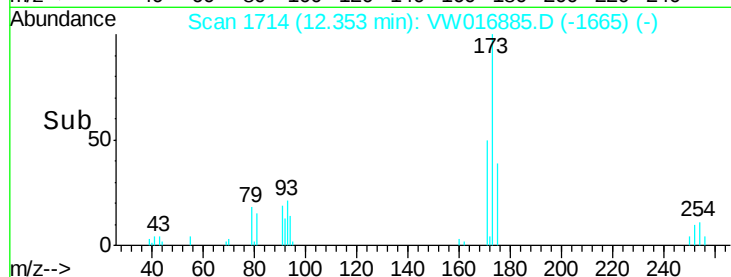
#71
Bromoform
Concen: 2.543 ug/l
RT: 12.35 min Scan# 1714
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

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

Tot Ion:173 Resp: 4788
Ion Ratio Lower Upper
173 100
175 46.6 24.7 74.1
254 0.0 0.1 0.1#

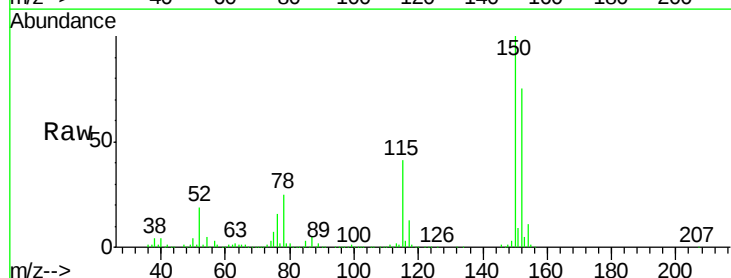


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

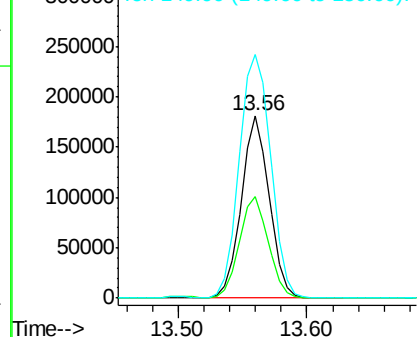
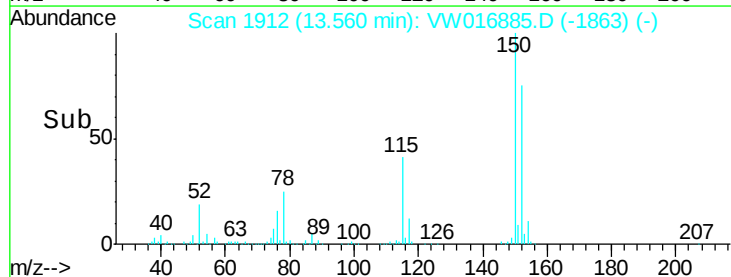


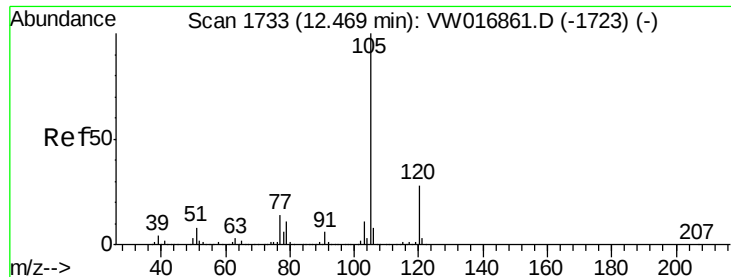
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion:152 Resp: 271848
Ion Ratio Lower Upper
152 100
115 57.5 27.9 83.7
150 150.8 0.0 344.0



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

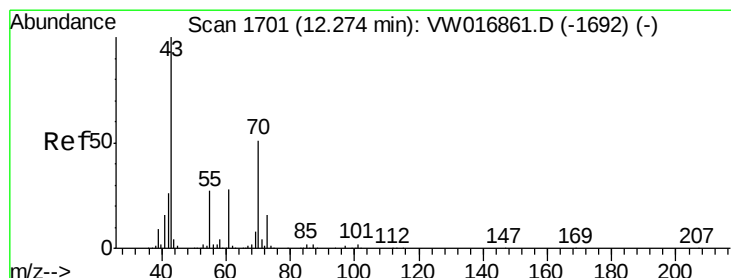
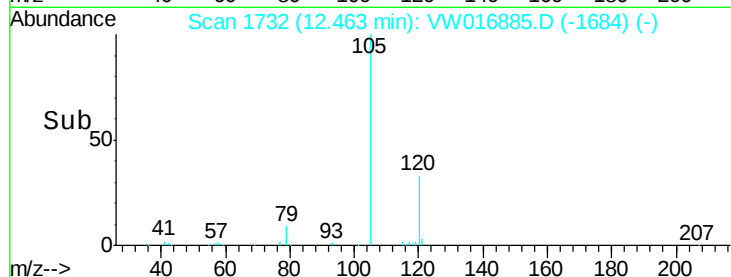
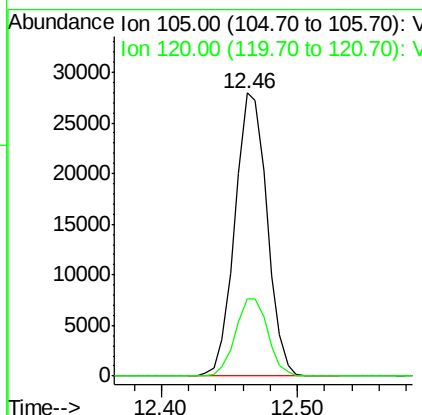
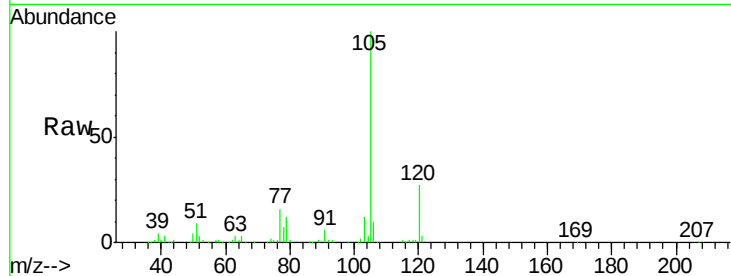




#73
Isopropylbenzene
Concen: 2.546 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

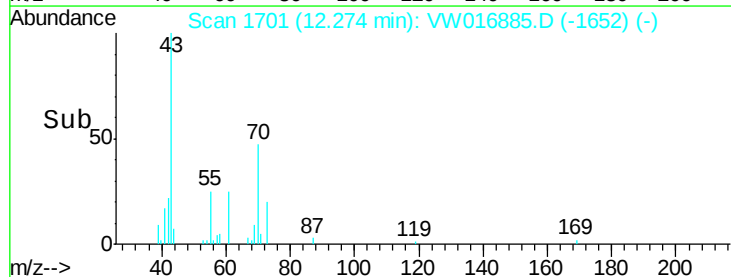
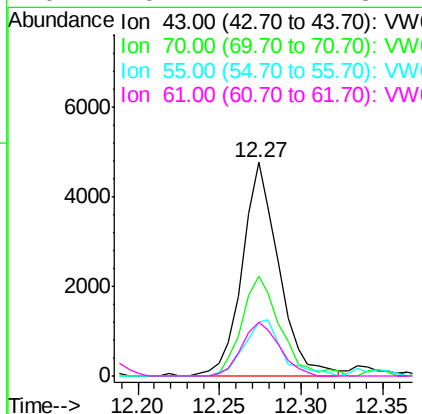
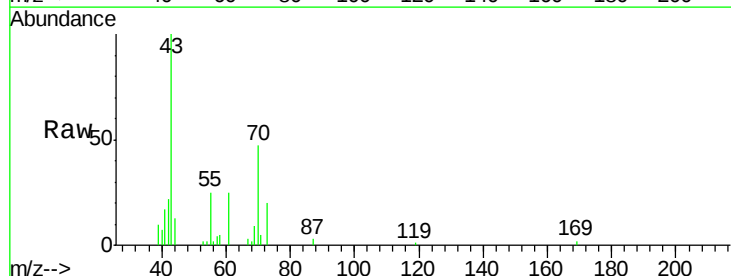
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

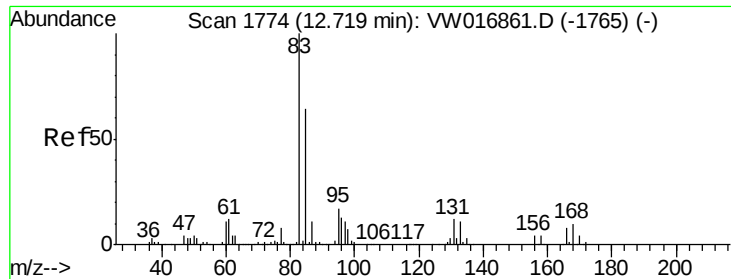
Tot Ion:105 Resp: 46000
Ion Ratio Lower Upper
105 100
120 27.7 13.6 40.7



#74
N-ethyl acetate
Concen: 2.570 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 43 Resp: 7459
Ion Ratio Lower Upper
43 100
70 48.8 40.2 60.4
55 27.3 21.4 32.0
61 26.2 21.4 32.2

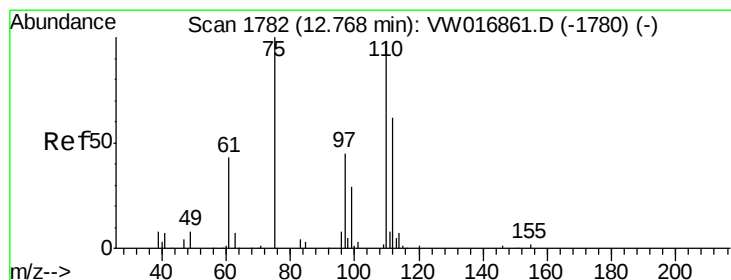
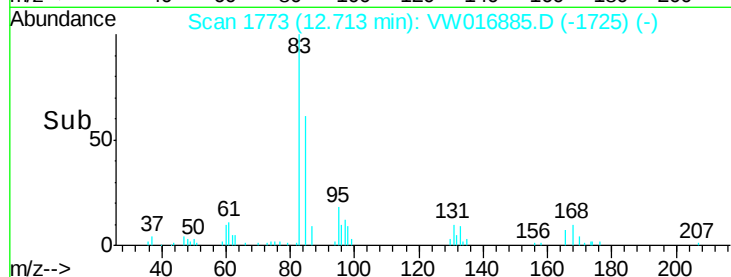
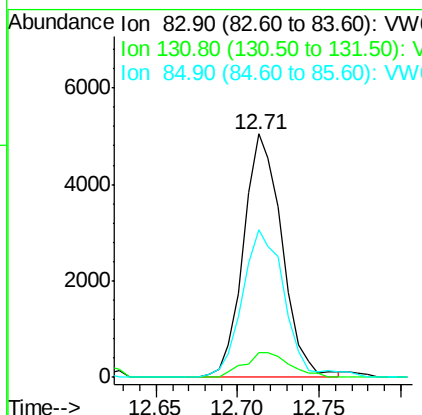
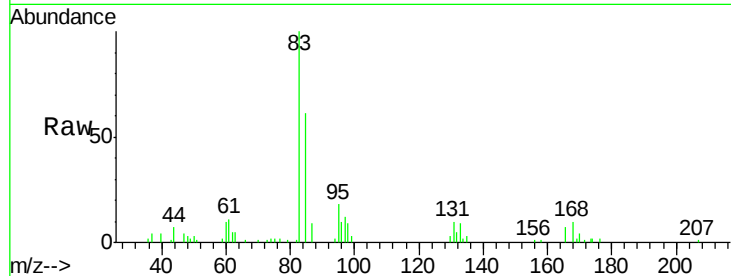




#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.928 ug/l
 RT: 12.71 min Scan# 1773
 Delta R.T. -0.01 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

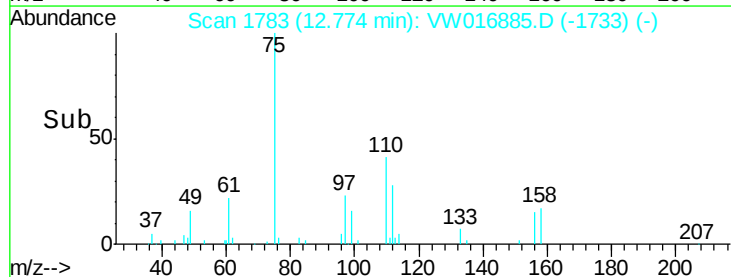
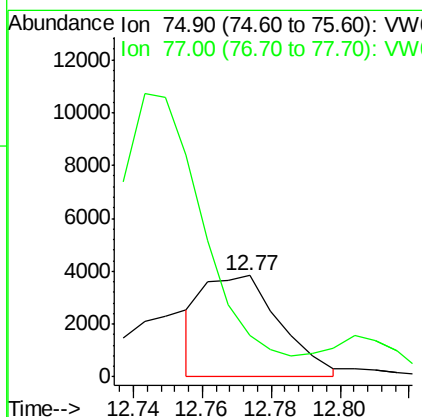
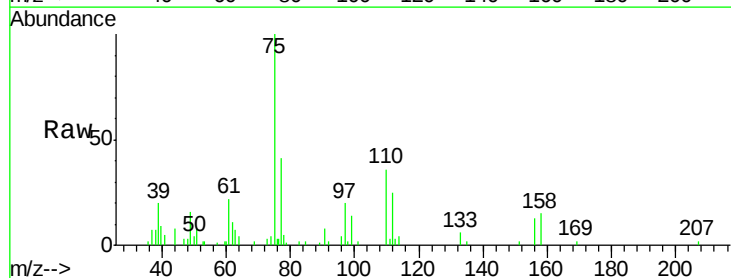
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

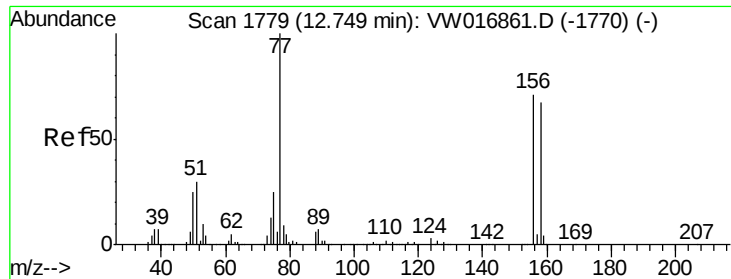
Tot Ion: 83 Resp: 8300
 Ion Ratio Lower Upper
 83 100
 131 11.9 6.1 18.3
 85 66.3 32.7 98.1



#76
 1,2,3-Trichloropropane
 Concen: 2.932 ug/l m
 RT: 12.77 min Scan# 1783
 Delta R.T. 0.01 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion: 75 Resp: 5948
 Ion Ratio Lower Upper
 75 100
 77 0.0 178.8 536.3#

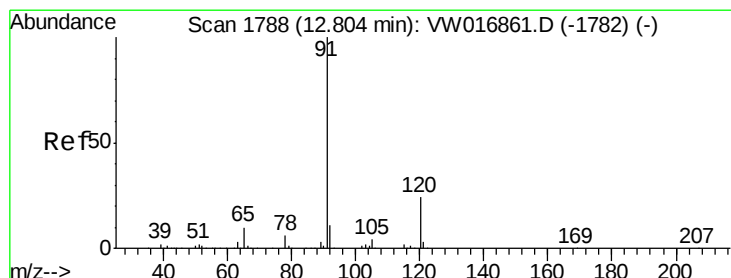
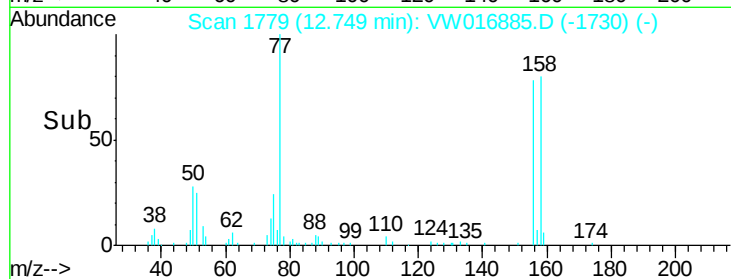
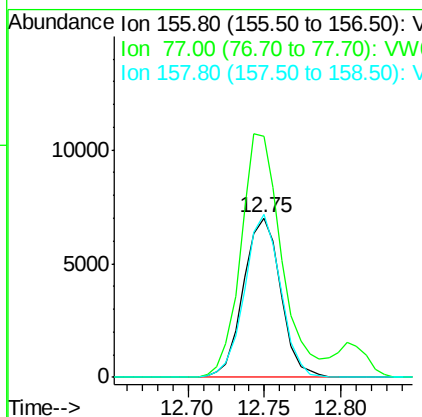
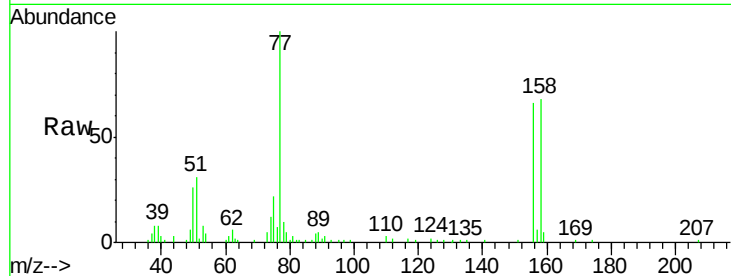




#77
Bromobenzene
Concen: 2.658 ug/l
RT: 12.75 min Scan# 1779
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

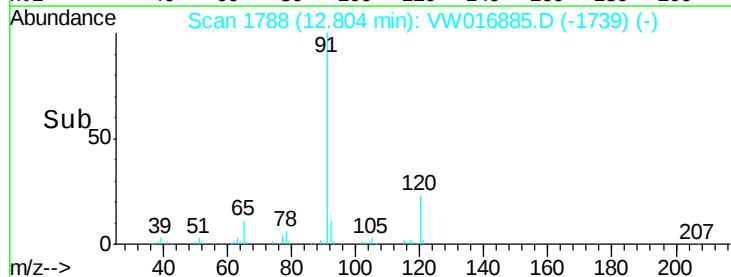
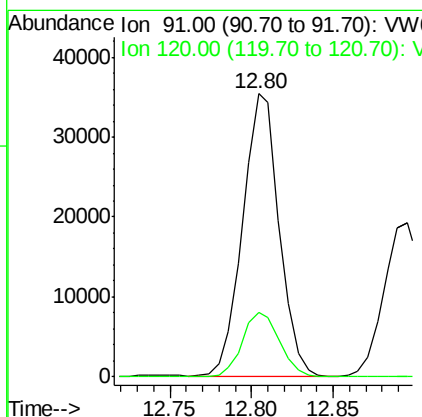
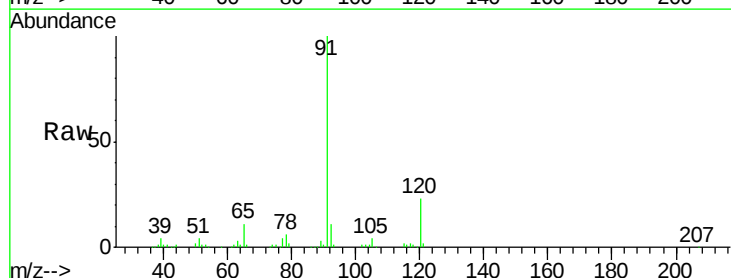
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

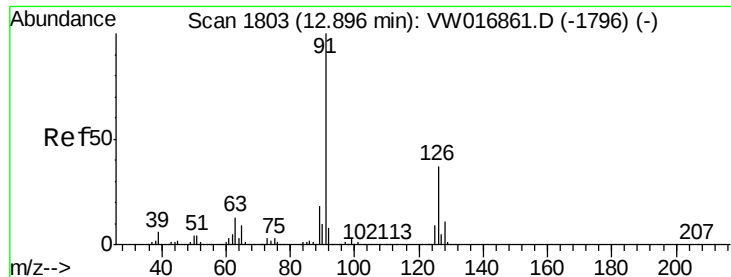
Tot Ion:156 Resp: 11871
Ion Ratio Lower Upper
156 100
77 166.5 79.0 237.2
158 98.7 47.0 141.2



#78
n-propylbenzene
Concen: 2.636 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 91 Resp: 54935
Ion Ratio Lower Upper
91 100
120 23.3 12.0 36.1

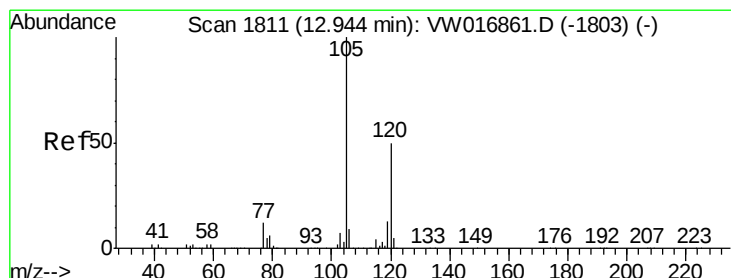
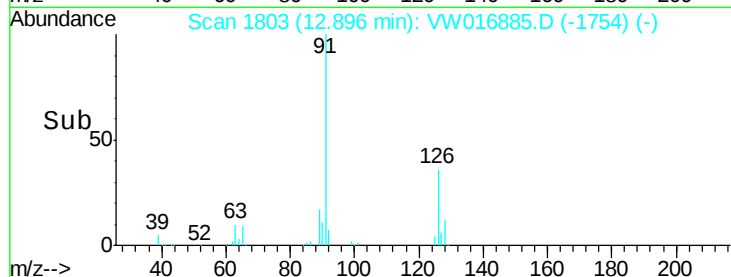
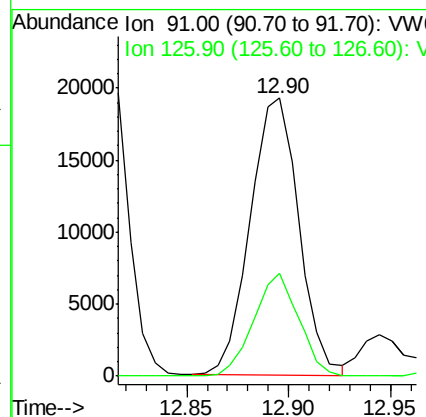
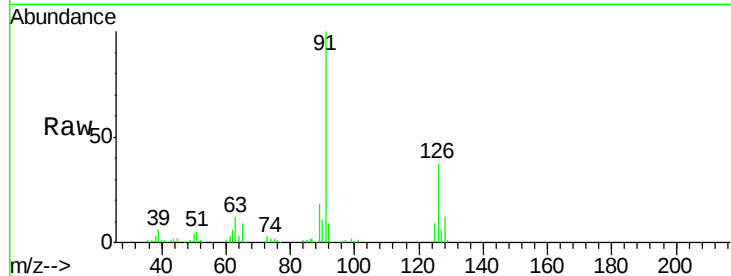




#79
 2-Chlorotoluene
 Concen: 2.691 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

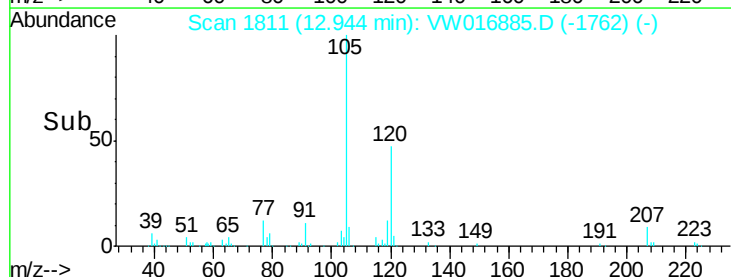
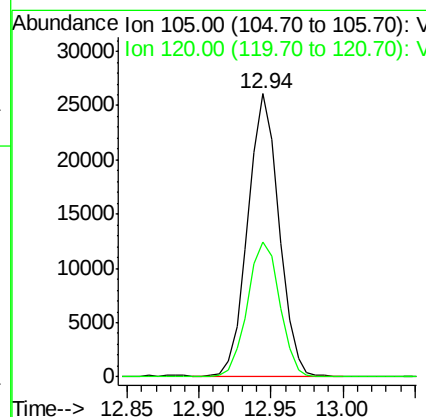
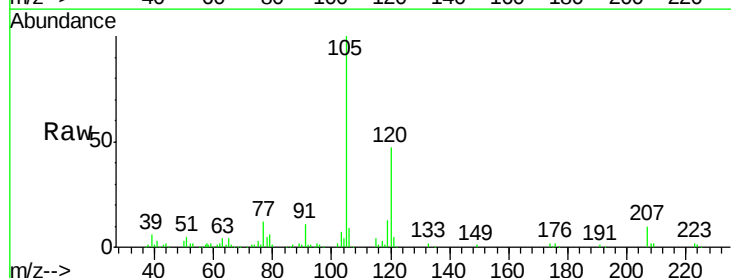
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

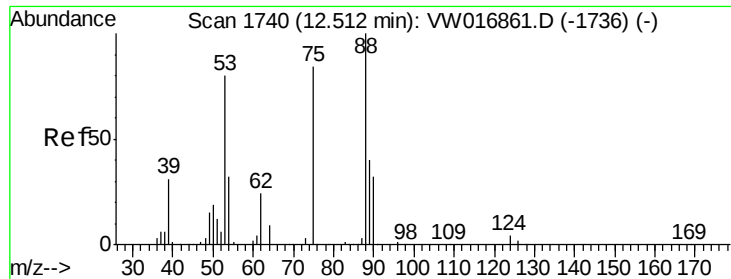
Tot Ion: 91 Resp: 31987
 Ion Ratio Lower Upper
 91 100
 126 34.4 17.9 53.8



#80
 1,3,5-Trimethylbenzene
 Concen: 2.578 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion: 105 Resp: 39037
 Ion Ratio Lower Upper
 105 100
 120 49.3 24.9 74.8





#81

trans-1,4-Dichloro-2-butene

Concen: 2.520 ug/l m

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

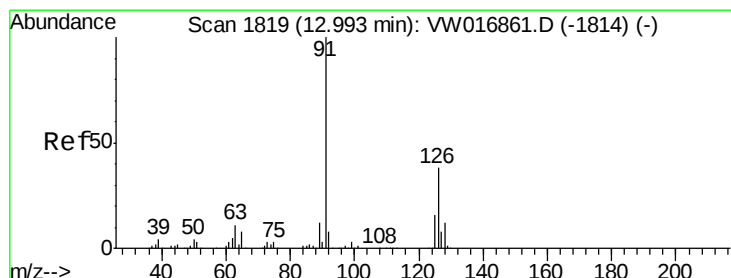
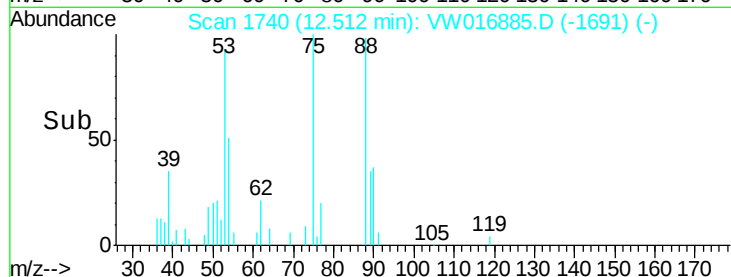
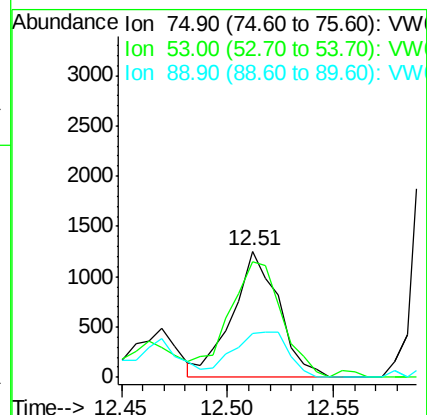
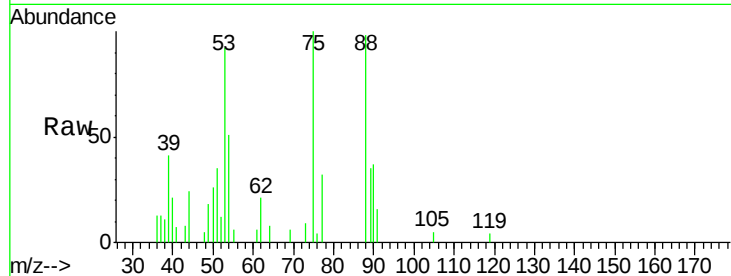
Tot Ion: 75 Resp: 1902

Ion Ratio Lower Upper

75 100

53 0.0 77.0 115.4#

89 24.4 38.7 58.1#



#82

4-Chlorotoluene

Concen: 2.706 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW016885.D

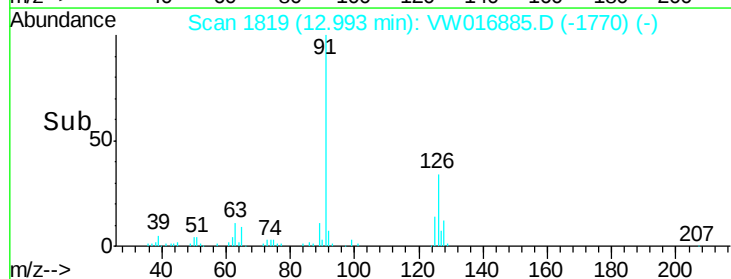
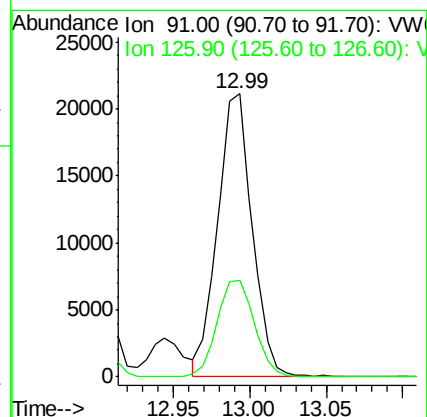
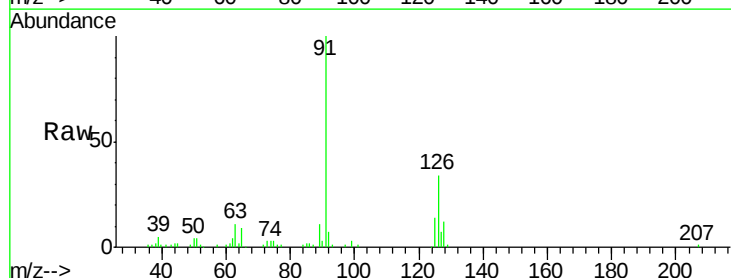
Acq: 12 Oct 2020 16:37

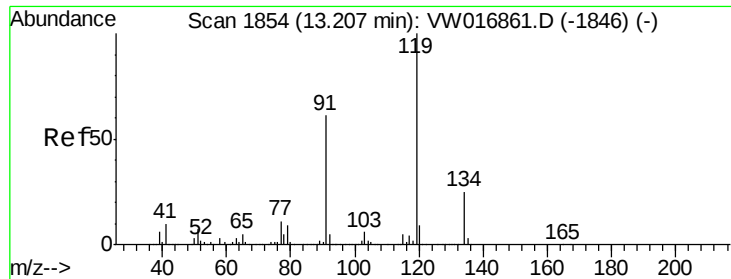
Tgt Ion: 91 Resp: 33205

Ion Ratio Lower Upper

91 100

126 36.8 18.1 54.3

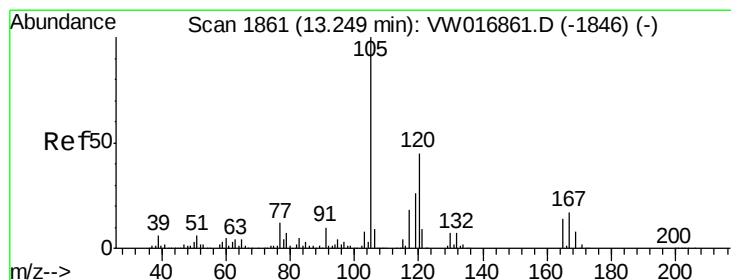
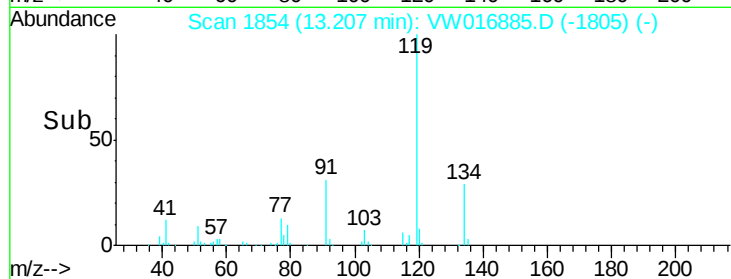
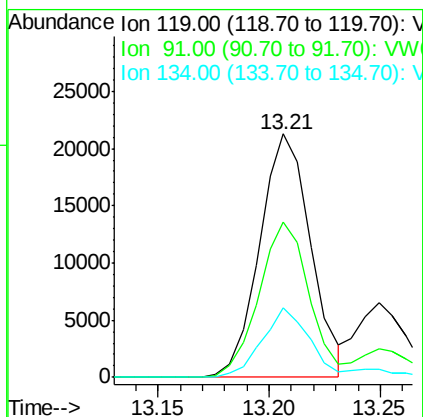
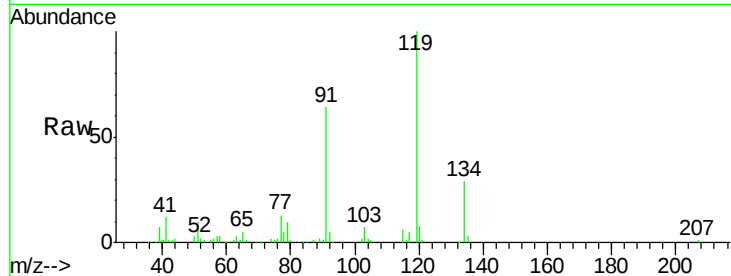




#83
tert-Butylbenzene
Concen: 2.573 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

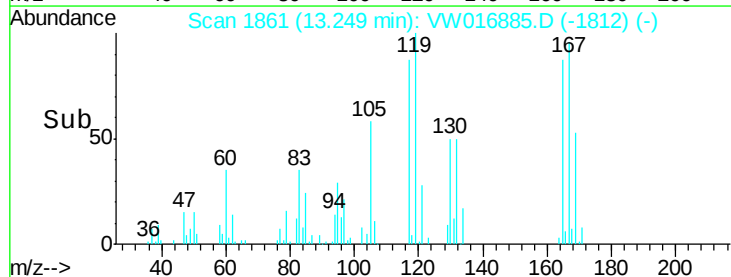
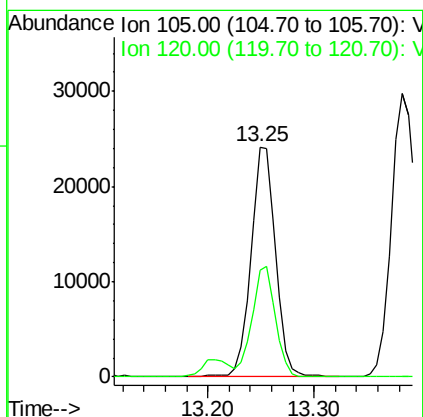
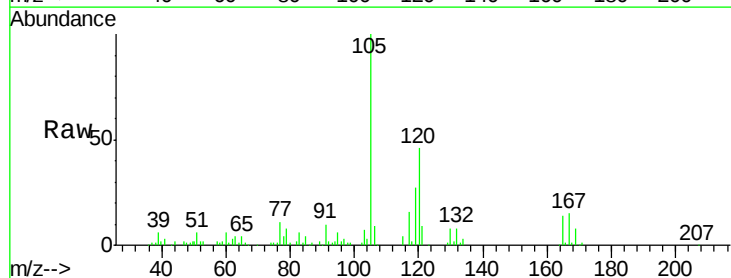
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

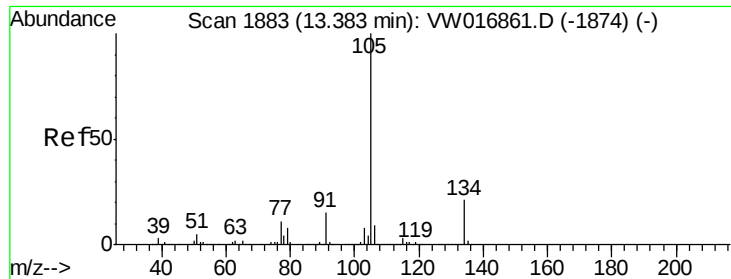
Tot Ion:119 Resp: 33838
Ion Ratio Lower Upper
119 100
91 63.9 31.3 93.9
134 26.8 14.0 42.0



#84
1,2,4-Trimethylbenzene
Concen: 2.600 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion:105 Resp: 39229
Ion Ratio Lower Upper
105 100
120 45.3 23.4 70.0





#85

sec-Butylbenzene

Concen: 2.596 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

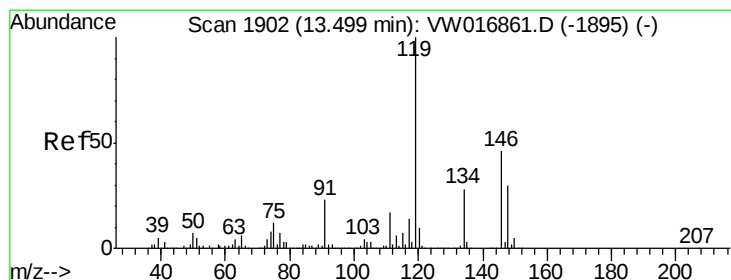
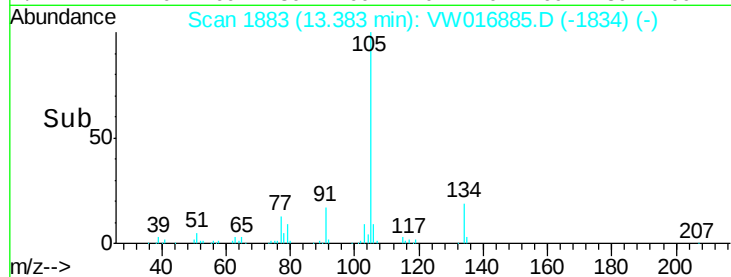
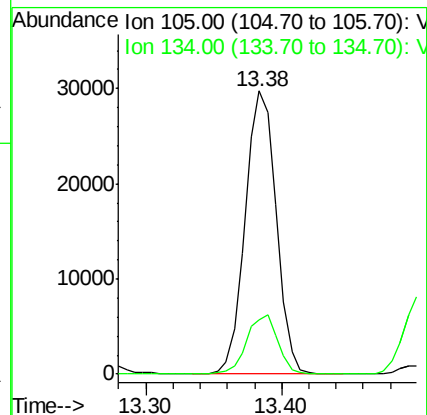
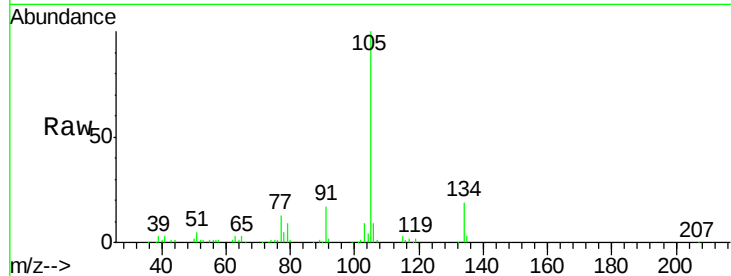
MDL-SOIL-03-QT4-2020

Tot Ion:105 Resp: 47527

Ion Ratio Lower Upper

105 100

134 20.9 10.6 31.8



#86

p-Isopropyltoluene

Concen: 2.554 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

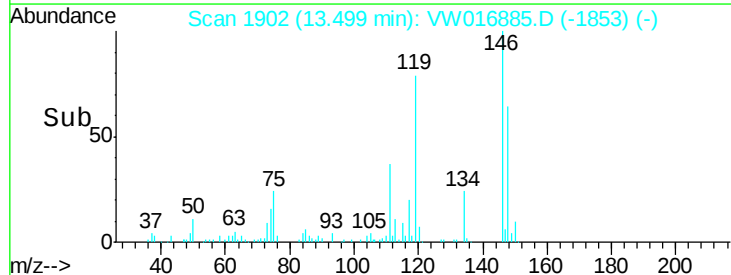
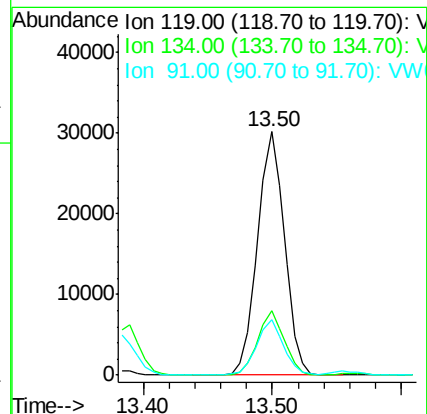
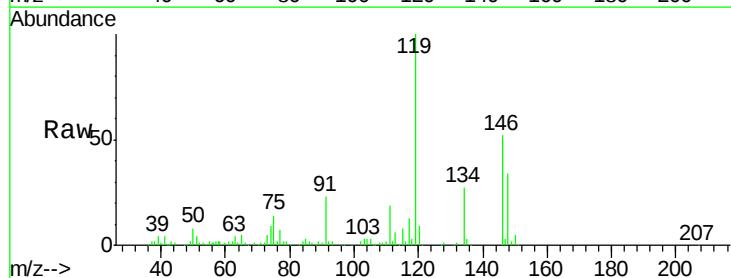
Tgt Ion:119 Resp: 43530

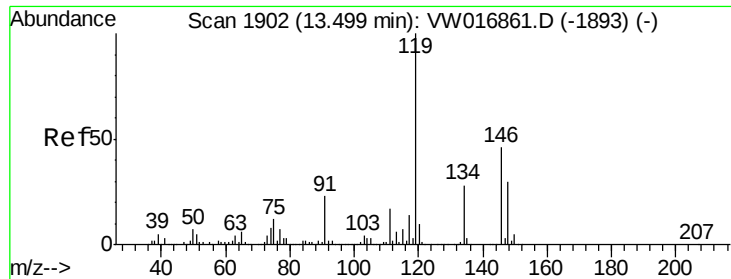
Ion Ratio Lower Upper

119 100

134 25.9 13.8 41.3

91 22.7 11.3 33.9

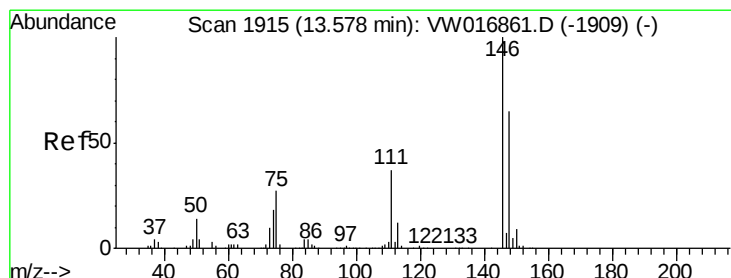
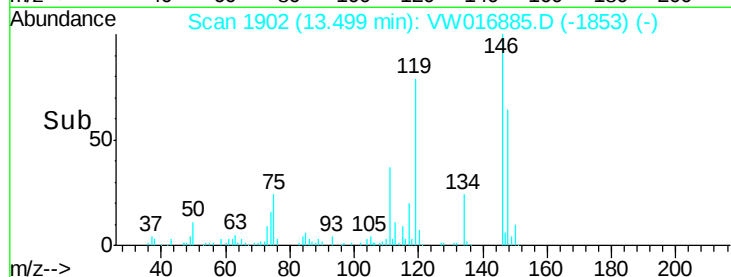
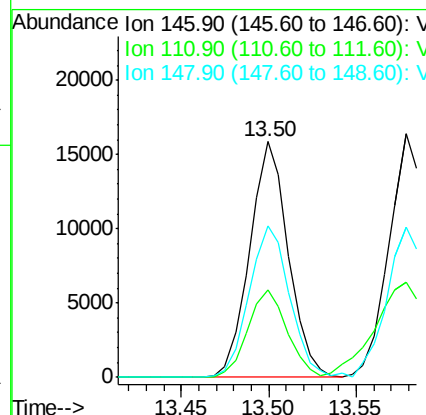
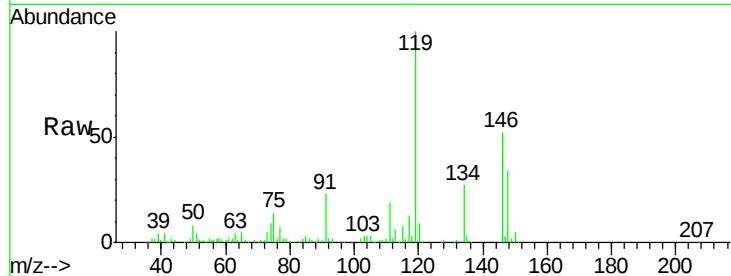




#87
 1,3-Dichlorobenzene
 Concen: 2.809 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

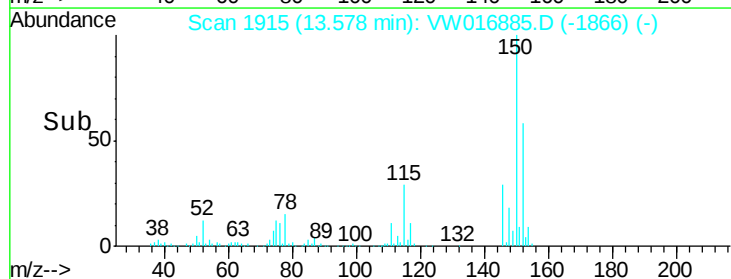
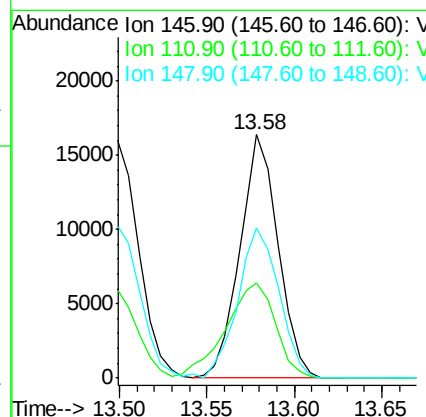
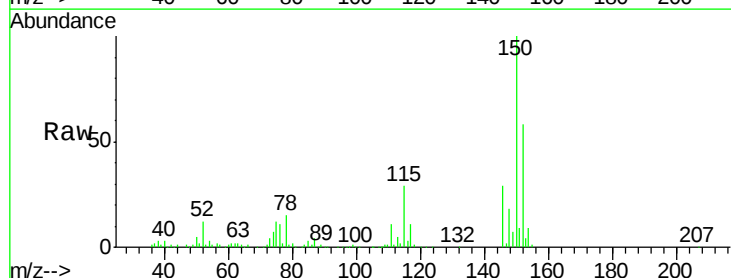
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

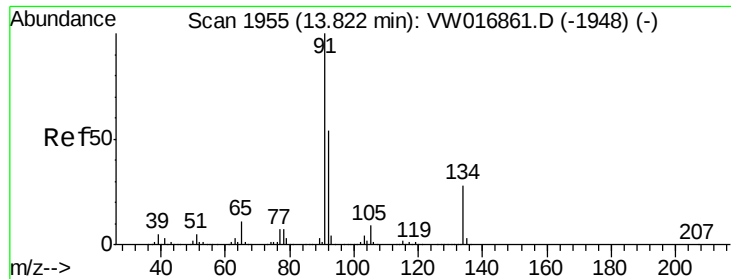
Tot Ion:146 Resp: 24266
 Ion Ratio Lower Upper
 146 100
 111 37.7 19.1 57.5
 148 67.3 32.5 97.4



#88
 1,4-Dichlorobenzene
 Concen: 2.921 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion:146 Resp: 24864
 Ion Ratio Lower Upper
 146 100
 111 51.3 18.5 55.5
 148 66.6 31.8 95.4

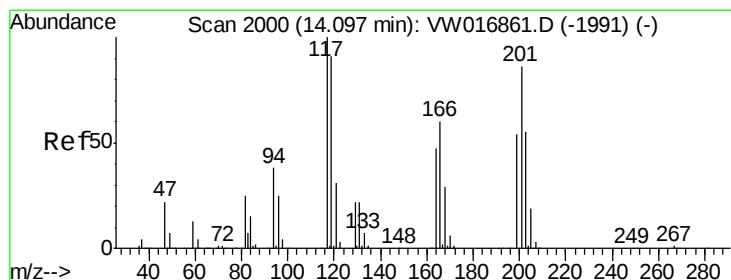
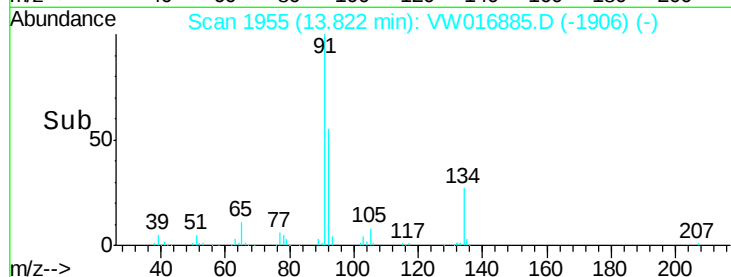
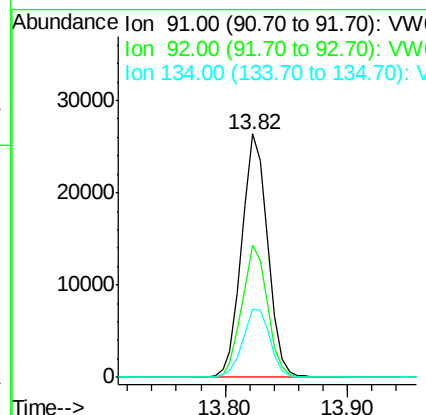
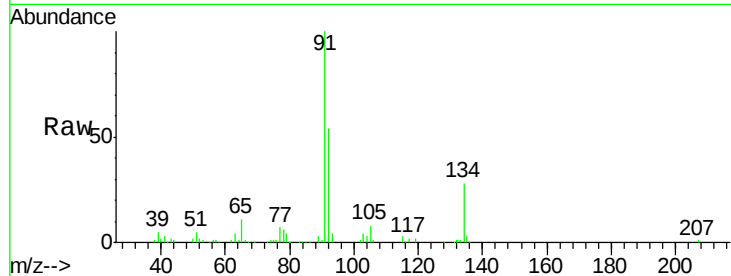




#89
n-Butylbenzene
Concen: 2.517 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

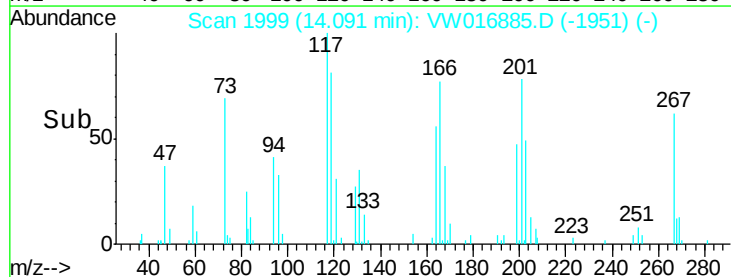
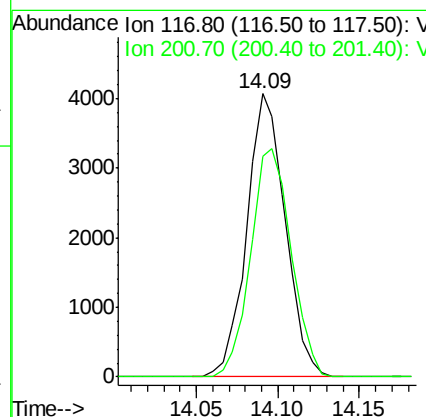
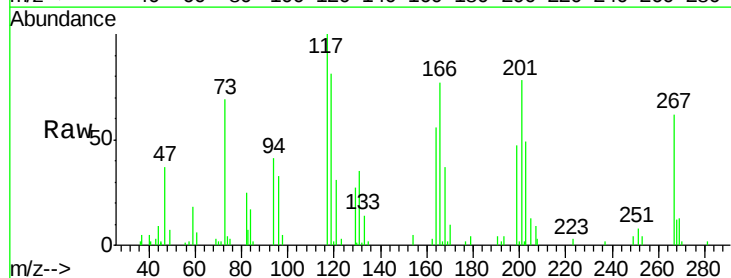
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT4-2020

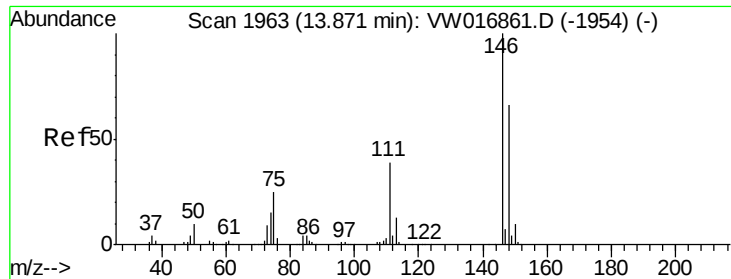
Tot Ion: 91 Resp: 38655
Ion Ratio Lower Upper
91 100
92 53.1 26.6 79.7
134 29.6 14.3 42.9



#90
Hexachloroethane
Concen: 2.539 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.01 min
Lab File: VW016885.D
Acq: 12 Oct 2020 16:37

Tgt Ion: 117 Resp: 6678
Ion Ratio Lower Upper
117 100
201 84.6 41.9 125.7

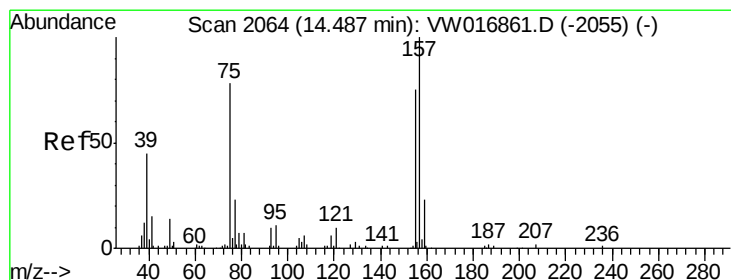
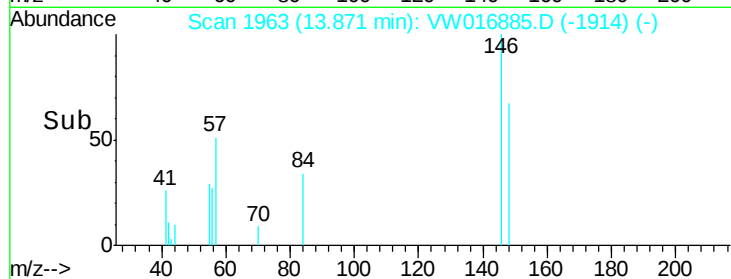
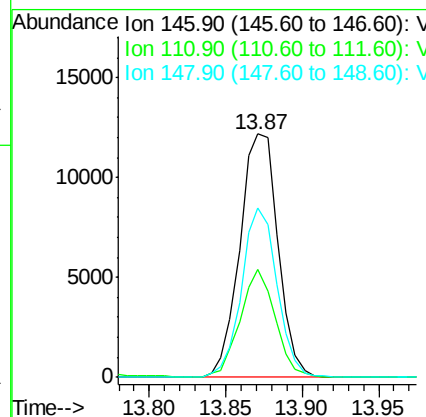
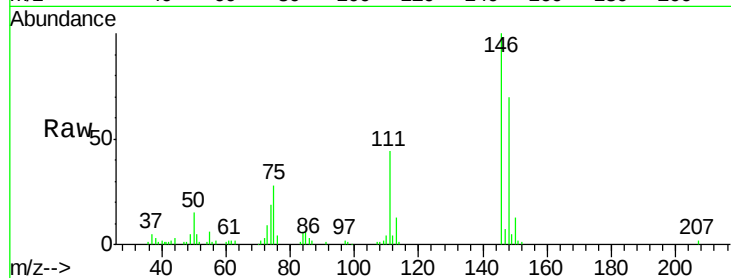




#91
 1,2-Dichlorobenzene
 Concen: 2.831 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

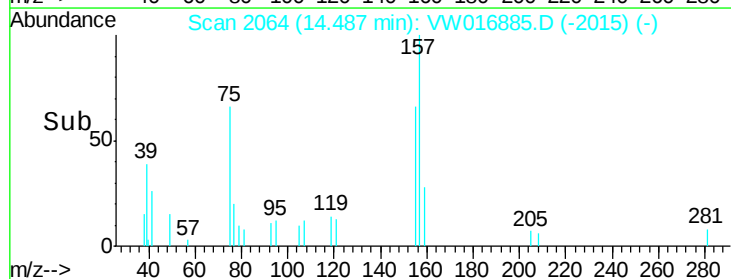
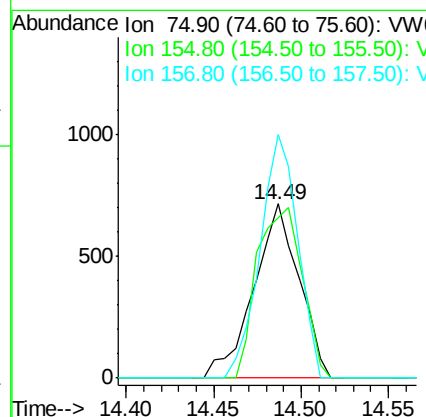
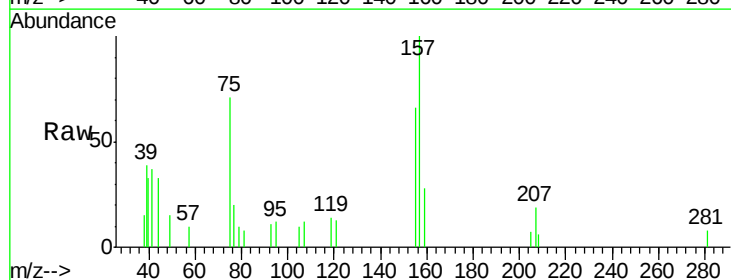
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

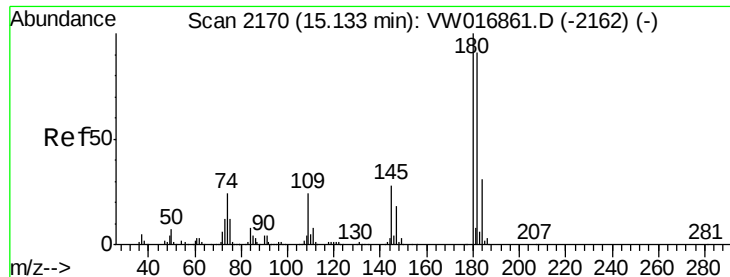
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.1	60.3
148	64.9	33.1	99.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.964 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.3	47.6	142.8
157	115.6	62.2	186.6

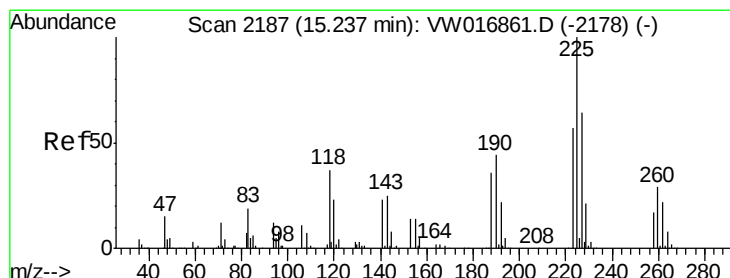
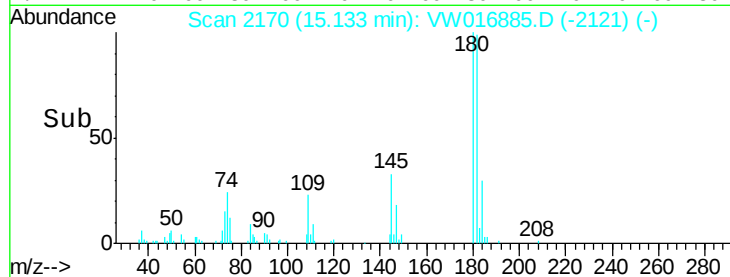
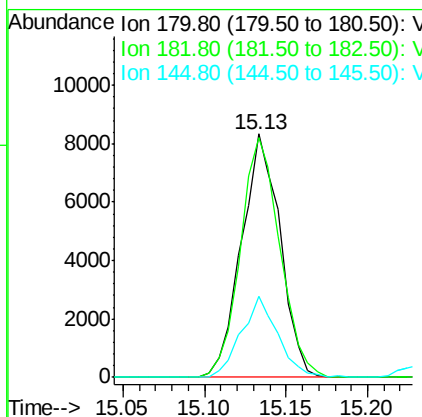
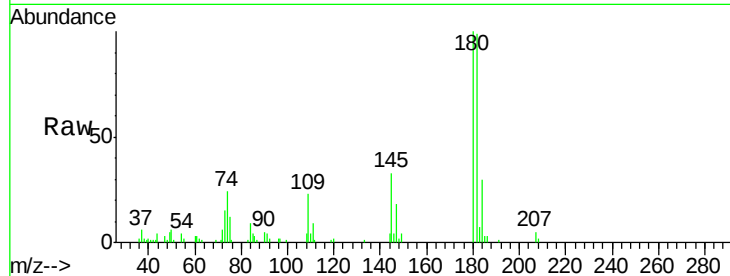




#93
 1,2,4-Trichlorobenzene
 Concen: 2.676 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

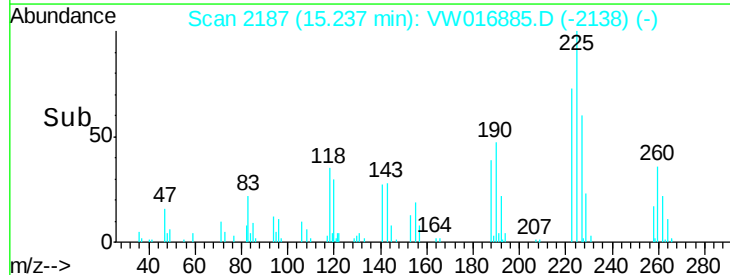
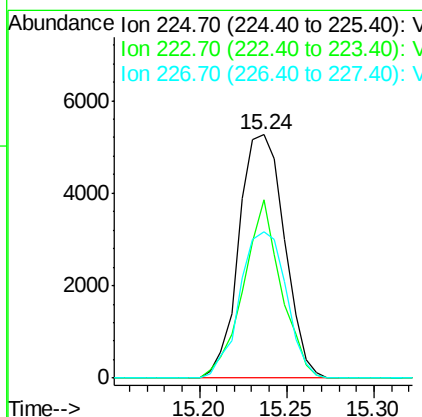
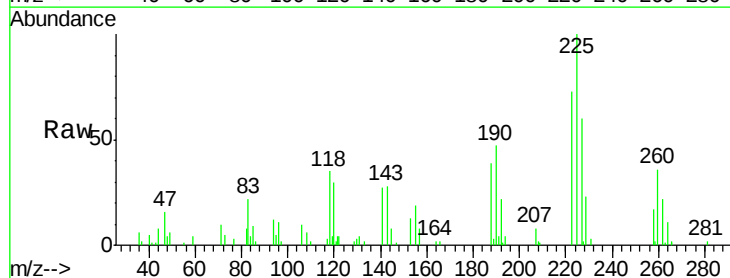
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT4-2020

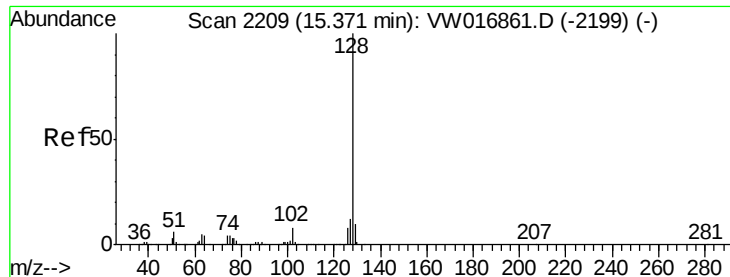
Tot Ion:180 Resp: 13760
 Ion Ratio Lower Upper
 180 100
 182 100.7 48.3 144.9
 145 31.5 14.9 44.5



#94
 Hexachlorobutadiene
 Concen: 2.858 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW016885.D
 Acq: 12 Oct 2020 16:37

Tgt Ion:225 Resp: 9528
 Ion Ratio Lower Upper
 225 100
 223 60.6 31.9 95.7
 227 61.5 33.0 99.0





#95

Naphthalene

Concen: 2.583 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT4-2020

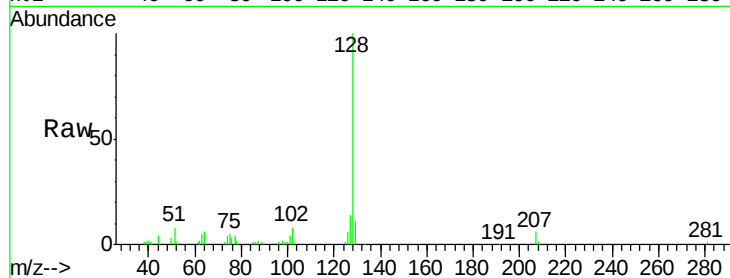
Tot Ion:128 Resp: 21590

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

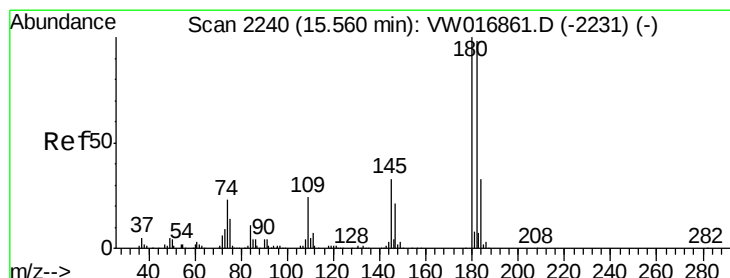
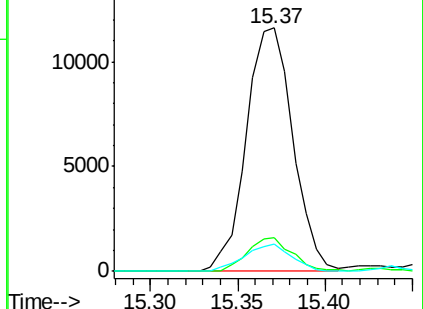
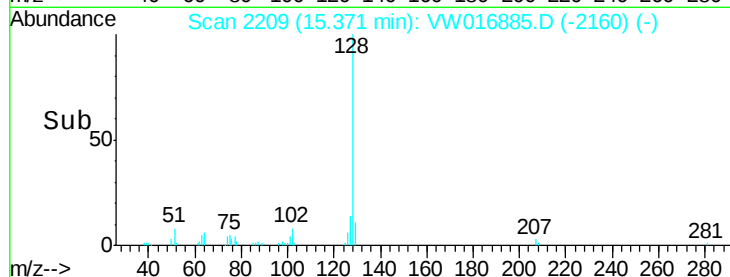
129 11.3 8.6 12.8



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: 3.004 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW016885.D

Acq: 12 Oct 2020 16:37

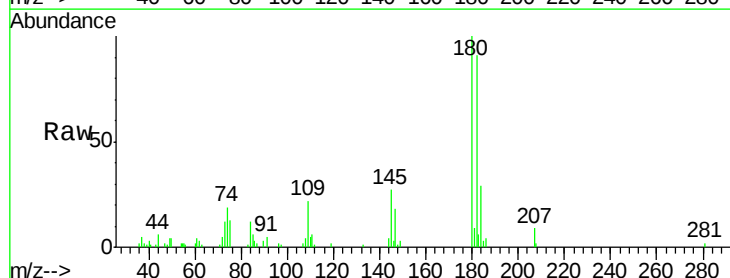
Tgt Ion:180 Resp: 13436

Ion Ratio Lower Upper

180 100

182 88.6 49.4 148.2

145 30.6 16.3 48.9



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

