

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050720\
 Data File : VW015419.D
 Acq On : 07 May 2020 14:37
 Operator : SY/VA
 Sample : L2182-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

Quant Time: May 08 07:35:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050620S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 18:41:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	214766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	352433	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	313352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	149349	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	121121	51.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.60%	
35) Dibromofluoromethane	7.88	113	104024	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
50) Toluene-d8	10.32	98	426663	50.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.94%	
62) 4-Bromofluorobenzene	12.62	95	155469	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	4444	3.579	ug/l	92
3) Chloromethane	2.21	50	6593	4.241	ug/l	94
4) Vinyl Chloride	2.36	62	9091	3.862	ug/l	96
5) Bromomethane	2.78	94	7163	3.884	ug/l	92
6) Chloroethane	2.93	64	6293	3.879	ug/l	99
7) Trichlorofluoromethane	3.26	101	5733	3.320	ug/l	90
8) Diethyl Ether	3.68	74	4591	4.255	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	4.06	101	8492	4.242	ug/l	97
10) Methyl Iodide	4.28	142	12351	4.078	ug/l	97
11) Tert butyl alcohol	5.18	59	4365	32.063	ug/l	99
12) 1,1-Dichloroethene	4.04	96	8327	4.011	ug/l	95
13) Acrolein	3.90	56	3438	19.776	ug/l	93
14) Allyl chloride	4.67	41	14098	3.876	ug/l	95
15) Acrylonitrile	5.37	53	9713	22.117	ug/l	97
16) Acetone	4.12	43	9314	25.396	ug/l	97
17) Carbon Disulfide	4.38	76	24270	3.813	ug/l	99
18) Methyl Acetate	4.67	43	5071	5.208	ug/l	94
19) Methyl tert-butyl Ether	5.43	73	15000	4.497	ug/l	98
20) Methylene Chloride	4.92	84	11938	4.989	ug/l	91
21) trans-1,2-Dichloroethene	5.43	96	9637	4.090	ug/l	95
22) Diisopropyl ether	6.31	45	29644	4.171	ug/l	96
23) Vinyl Acetate	6.26	43	85327	19.750	ug/l	98
24) 1,1-Dichloroethane	6.21	63	17722	4.159	ug/l	99
25) 2-Butanone	7.17	43	13965	24.429	ug/l	96
26) 2,2-Dichloropropane	7.17	77	13353	4.728	ug/l	95
27) cis-1,2-Dichloroethene	7.17	96	10712	4.187	ug/l	93
28) Bromochloromethane	7.51	49	7231	4.221	ug/l #	99
29) Tetrahydrofuran	7.53	42	8601	22.862	ug/l	98
30) Chloroform	7.68	83	18034	4.260	ug/l	93
31) Cyclohexane	7.95	56	21612	4.996	ug/l #	71
32) 1,1,1-Trichloroethane	7.87	97	15414	4.332	ug/l	99
36) 1,1-Dichloropropene	8.09	75	14610	4.219	ug/l	100
37) Ethyl Acetate	7.26	43	5984	4.454	ug/l	98
38) Carbon Tetrachloride	8.07	117	13526	4.178	ug/l	97

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	18029	4.113	ug/l	97
40) Benzene	8.32	78	40389	4.277	ug/l	97
41) Methacrylonitrile	7.48	41	3263	3.844	ug/l	88
42) 1,2-Dichloroethane	8.40	62	13015	4.525	ug/l	99
43) Isopropyl Acetate	8.42	43	12177	4.309	ug/l	100
44) Trichloroethene	9.09	130	10452	4.270	ug/l	96
45) 1,2-Dichloropropane	9.37	63	10098	4.329	ug/l	97
46) Dibromomethane	9.46	93	4937	4.255	ug/l	98
47) Bromodichloromethane	9.64	83	13565	4.290	ug/l	98
48) Methyl methacrylate	9.44	41	6166	4.724	ug/l	88
49) 1,4-Dioxane	9.45	88	1440	98.616	ug/l #	89
51) 4-Methyl-2-Pentanone	10.21	43	32968	24.896	ug/l	99
52) Toluene	10.38	92	26547	4.326	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	13128	4.067	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	15786	4.154	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	6860	4.181	ug/l	96
56) Ethyl methacrylate	10.65	69	9251	4.104	ug/l	96
57) 1,3-Dichloropropane	10.93	76	12648	4.287	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.93	63	24369	22.219	ug/l	98
59) 2-Hexanone	10.97	43	19082	21.297	ug/l	99
60) Dibromochloromethane	11.13	129	7894	4.000	ug/l	98
61) 1,2-Dibromoethane	11.23	107	6711	4.320	ug/l	99
64) Tetrachloroethene	10.87	164	8671	4.527	ug/l	89
65) Chlorobenzene	11.66	112	26961	4.364	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	9327	4.258	ug/l	98
67) Ethyl Benzene	11.73	91	50827	4.298	ug/l	99
68) m/p-Xylenes	11.84	106	36990	8.413	ug/l	100
69) o-Xylene	12.16	106	17417	4.216	ug/l	99
70) Styrene	12.18	104	29444	4.138	ug/l	99
71) Bromoform	12.35	173	4190	3.922	ug/l #	99
73) Isopropylbenzene	12.46	105	49159	4.409	ug/l	98
74) N-amyl acetate	12.27	43	11862	4.501	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	7776	4.458	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	4055m	3.300	ug/l	
77) Bromobenzene	12.74	156	10343	4.377	ug/l	99
78) n-propylbenzene	12.80	91	58514	4.374	ug/l	100
79) 2-Chlorotoluene	12.89	91	33307	4.417	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	40277	4.289	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.51	75	2354m	3.790	ug/l	
82) 4-Chlorotoluene	12.99	91	35044	4.385	ug/l	98
83) tert-Butylbenzene	13.20	119	34893	4.354	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	41065	4.371	ug/l	99
85) sec-Butylbenzene	13.38	105	49506	4.384	ug/l	98
86) p-Isopropyltoluene	13.50	119	44328	4.304	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	20922	4.445	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	21075	4.521	ug/l	92
89) n-Butylbenzene	13.82	91	43855	4.350	ug/l	99
90) Hexachloroethane	14.09	117	8196	4.319	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	18156	4.455	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1374	4.512	ug/l	96

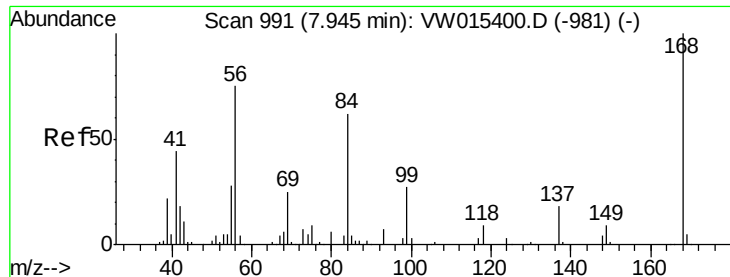
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	11555	4.219	ug/l	98
94) Hexachlorobutadiene	15.24	225	7271	4.480	ug/l	99
95) Naphthalene	15.36	128	20370	4.152	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	10437	4.435	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

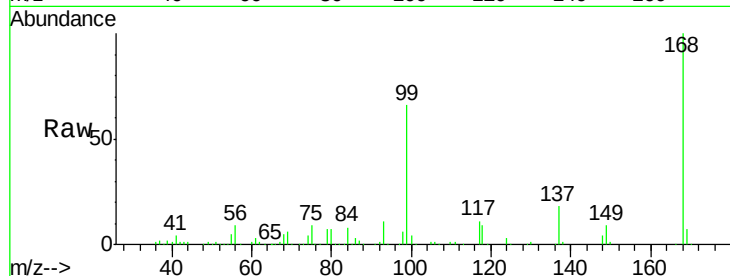
MDL-SOIL-03-QT2-2020DL

Tot Ion:168 Resp: 214766

Ion Ratio Lower Upper

168 100

99 66.2 50.3 75.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

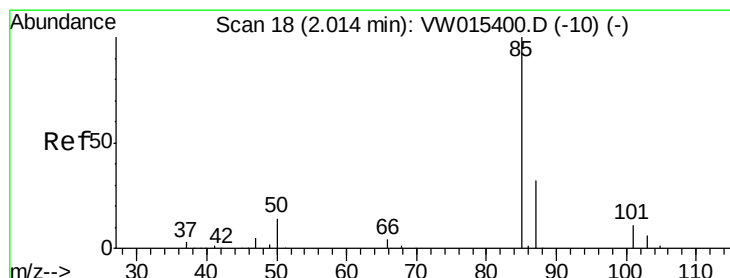
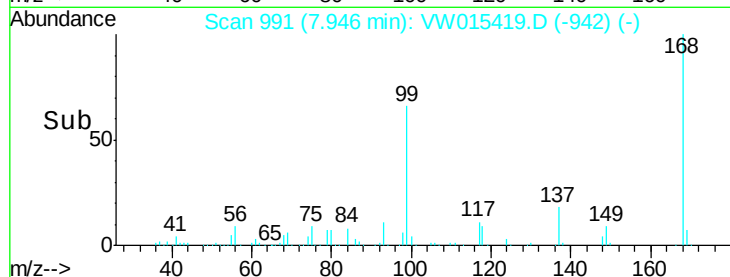
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 3.579 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW015419.D

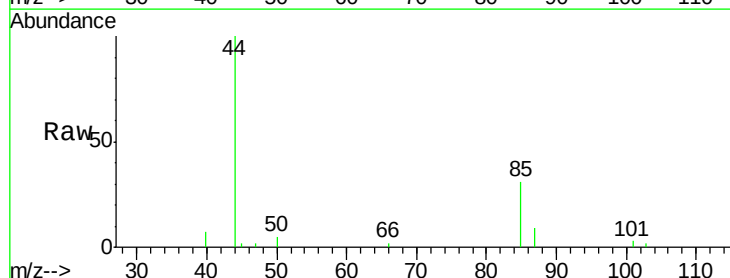
Acq: 07 May 2020 14:37

Tgt Ion: 85 Resp: 4444

Ion Ratio Lower Upper

85 100

87 27.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

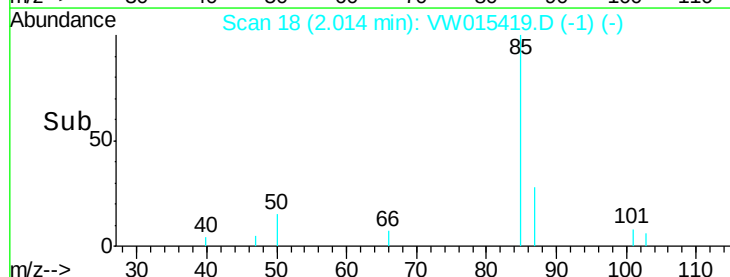
1500

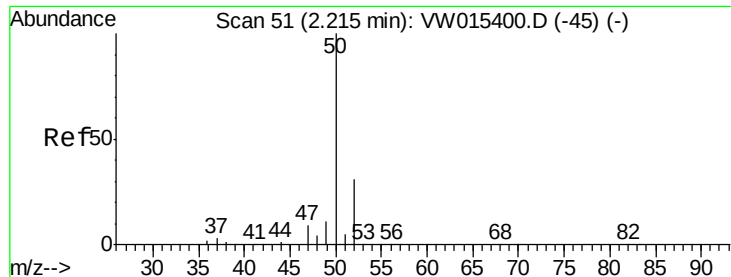
1000

500

0

Time--> 2.00 2.10





#3

Chloromethane

Concen: 4.241 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

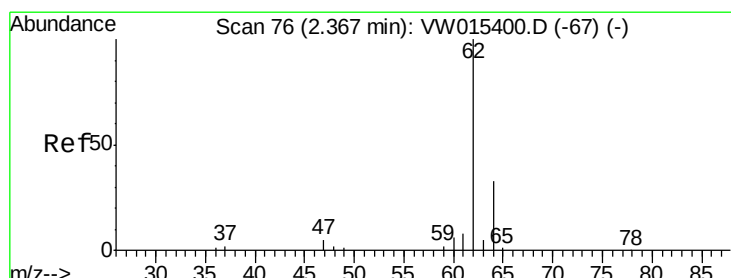
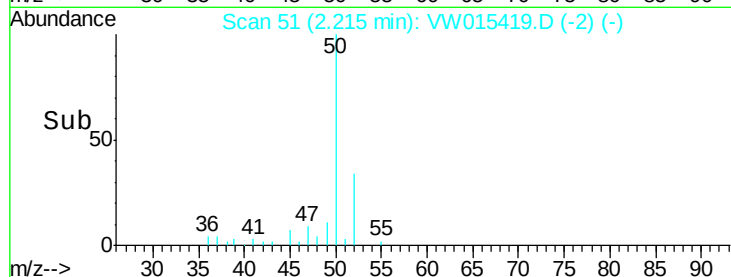
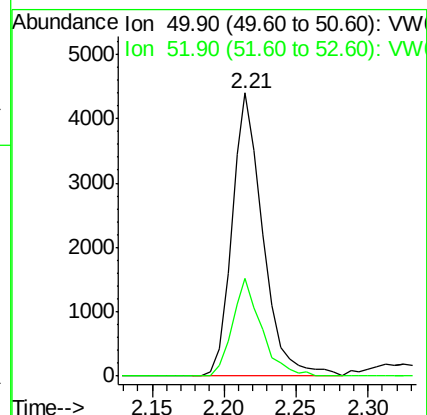
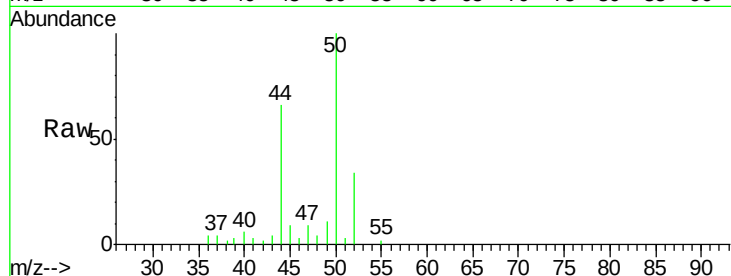
MDL-SOIL-03-QT2-2020DL

Tot Ion: 50 Resp: 6593

Ion Ratio Lower Upper

50 100

52 34.4 25.0 37.6



#4

Vinyl Chloride

Concen: 3.862 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015419.D

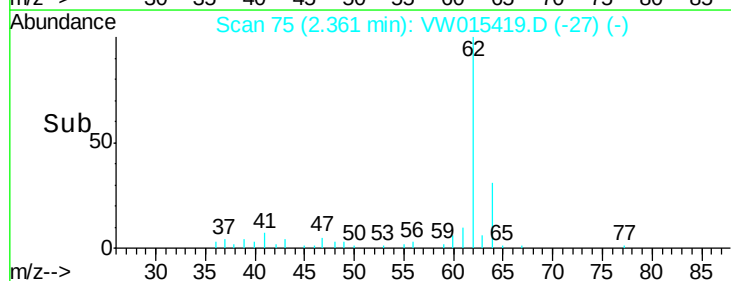
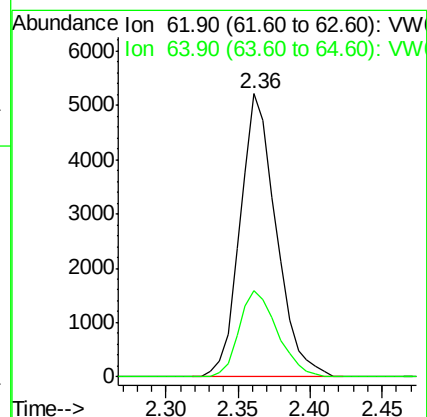
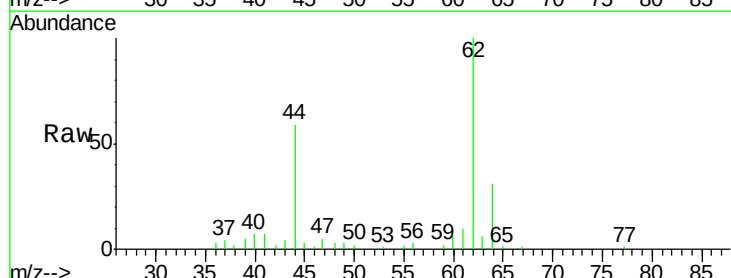
Acq: 07 May 2020 14:37

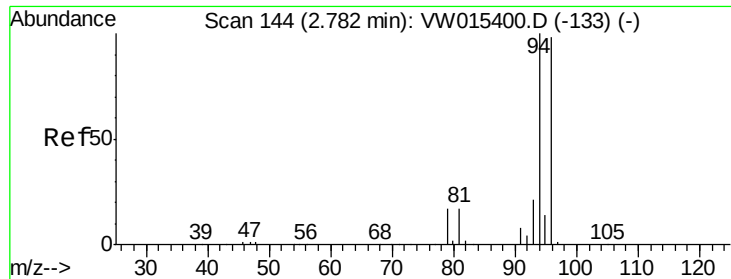
Tgt Ion: 62 Resp: 9091

Ion Ratio Lower Upper

62 100

64 30.5 26.4 39.6





#5

Bromomethane

Concen: 3.884 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

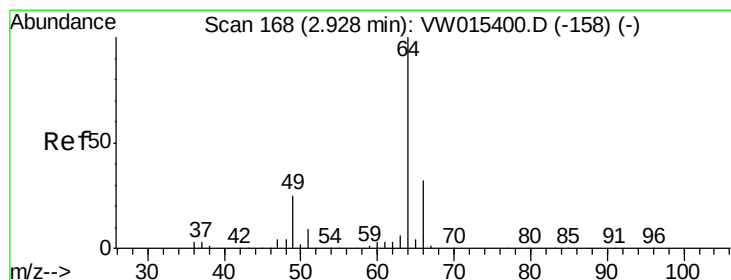
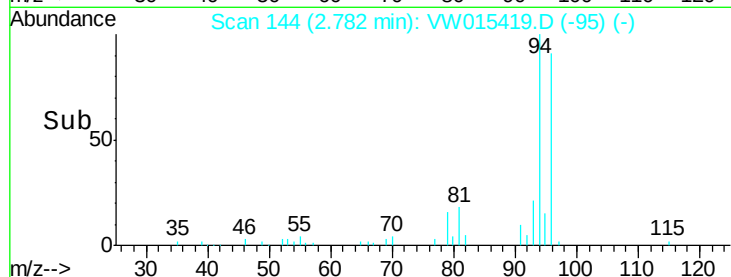
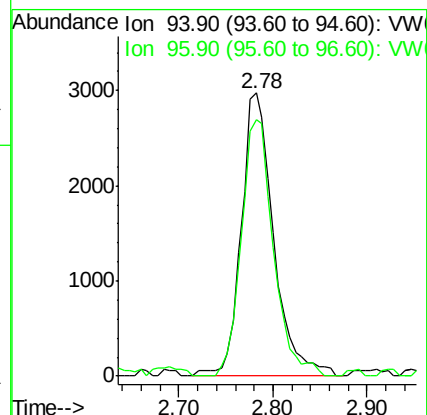
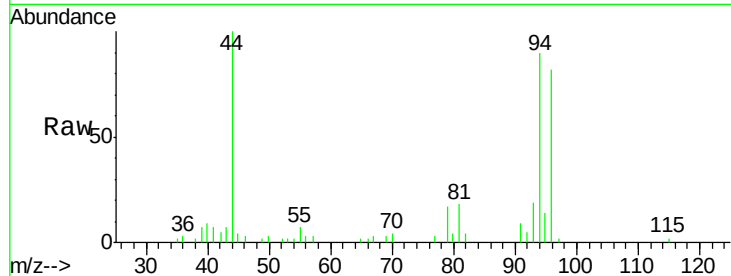
MDL-SOIL-03-QT2-2020DL

Tot Ion: 94 Resp: 7163

Ion Ratio Lower Upper

94 100

96 90.8 78.8 118.2



#6

Chloroethane

Concen: 3.879 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW015419.D

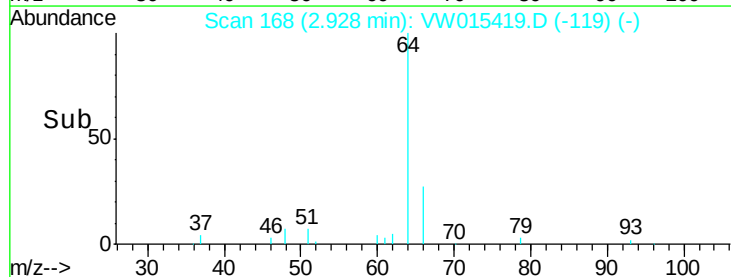
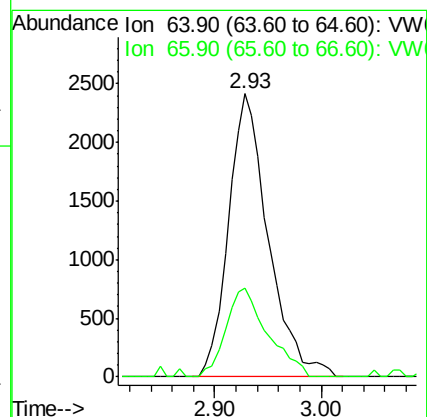
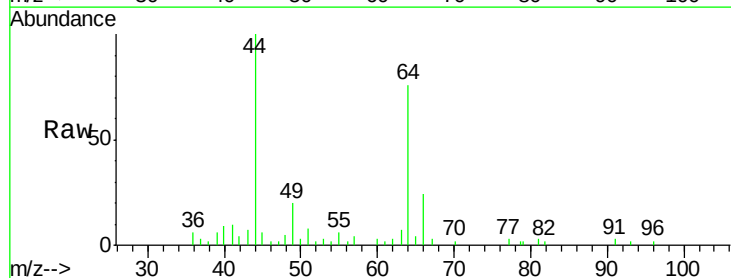
Acq: 07 May 2020 14:37

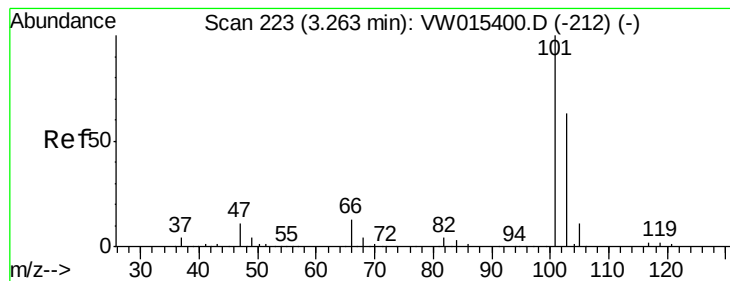
Tgt Ion: 64 Resp: 6293

Ion Ratio Lower Upper

64 100

66 31.3 25.4 38.0



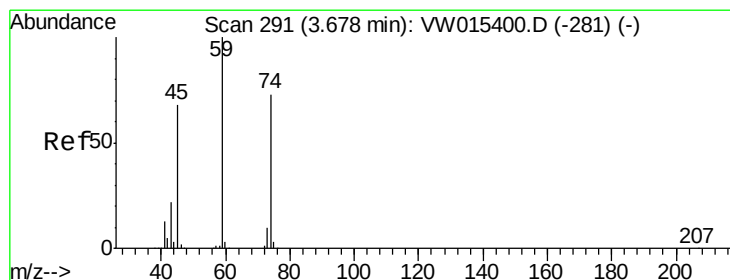
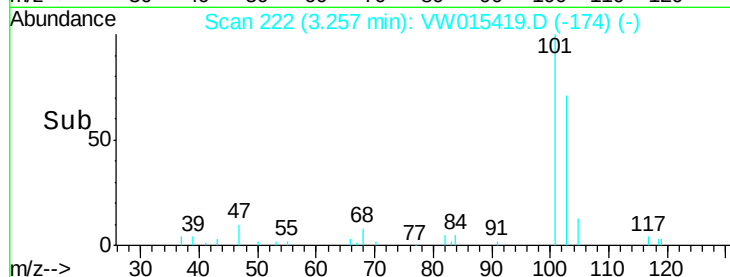
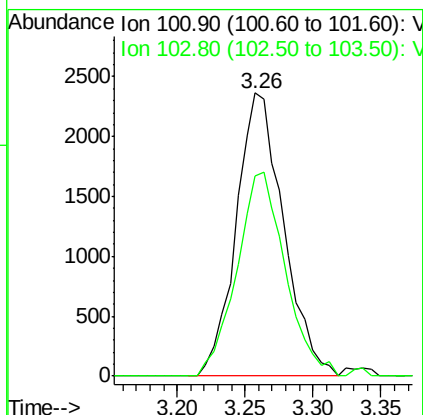
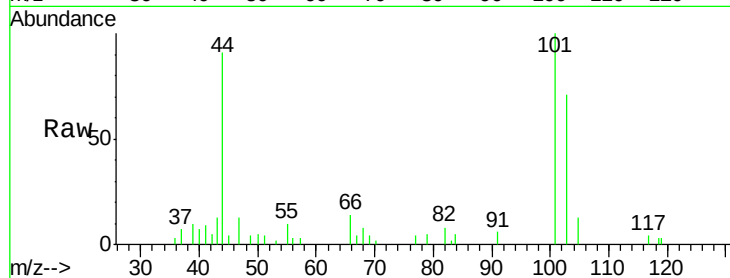


#7

Trichlorofluoromethane
 Concen: 3.320 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. -0.01 min
 Lab File: VW015419.D
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Instrument :
 MSVOA_W
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 MDL-SOIL-03-QT2-2020DL

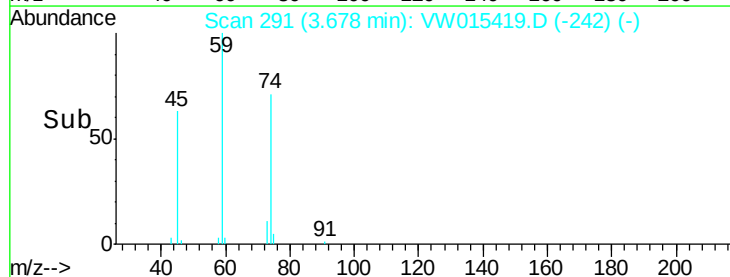
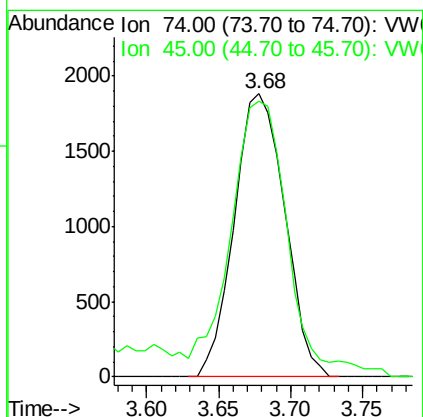
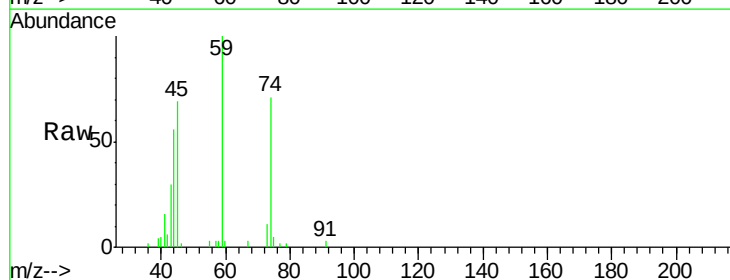
Tot Ion:101 Resp: 5733
 Ion Ratio Lower Upper
 101 100
 103 70.8 50.2 75.4

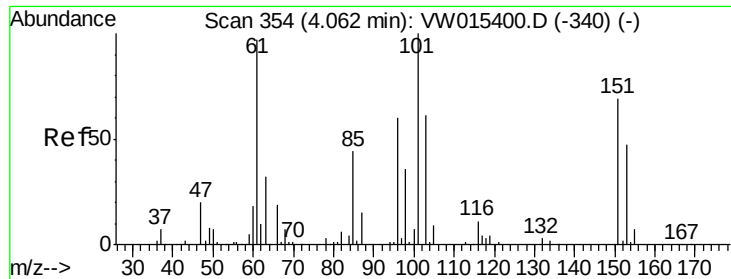


#8

Diethyl Ether
 Concen: 4.255 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 74 Resp: 4591
 Ion Ratio Lower Upper
 74 100
 45 110.4 48.3 144.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.242 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

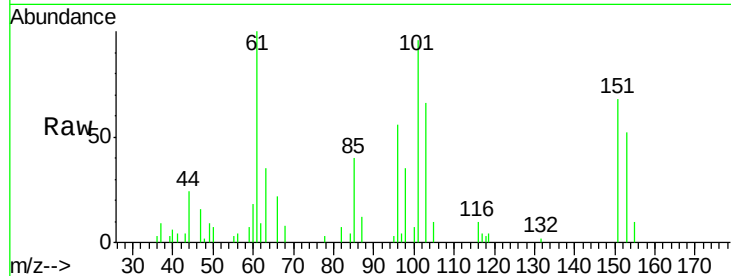
Tot Ion:101 Resp: 8492

Ion Ratio Lower Upper

101 100

85 42.5 37.3 55.9

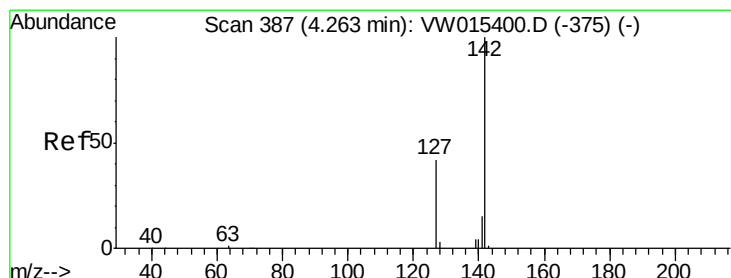
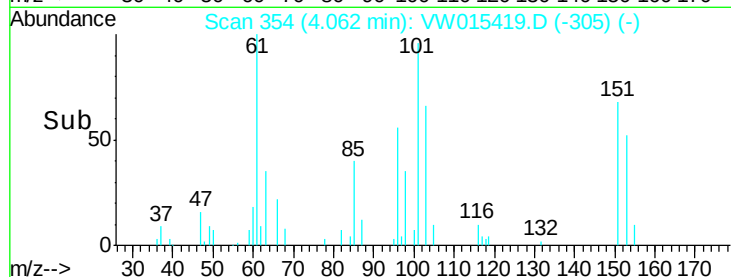
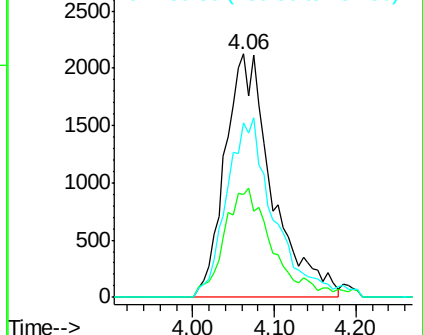
151 73.0 58.9 88.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.078 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

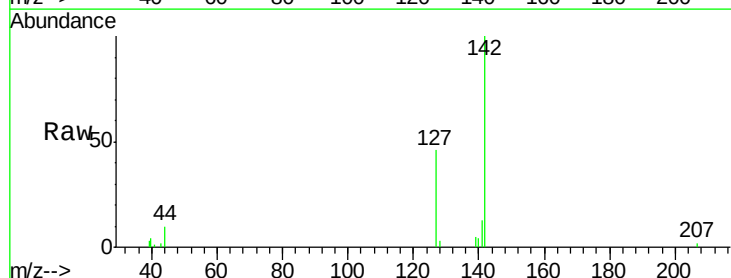
Tgt Ion:142 Resp: 12351

Ion Ratio Lower Upper

142 100

127 46.5 35.4 53.2

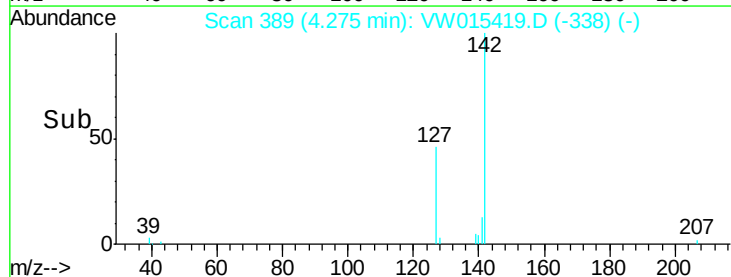
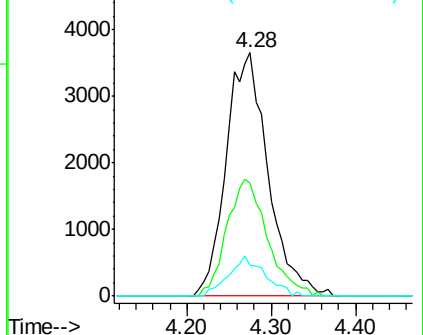
141 14.3 11.7 17.5

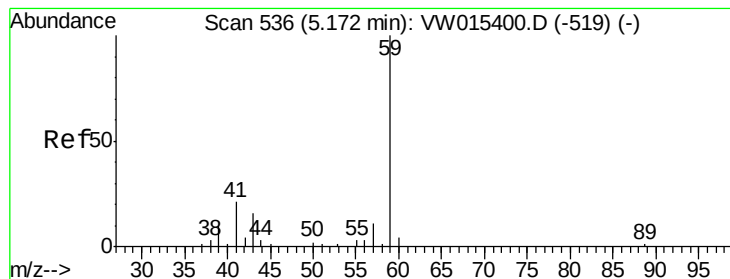


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



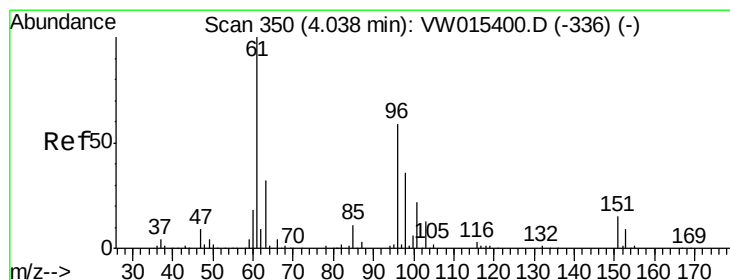
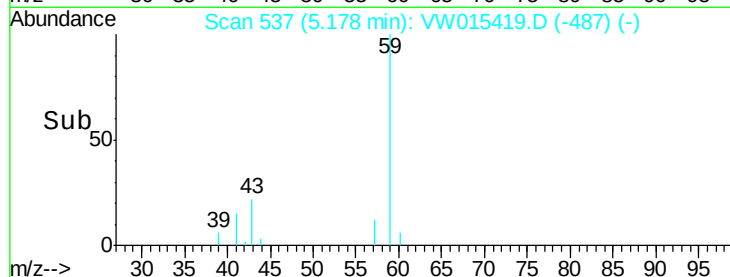
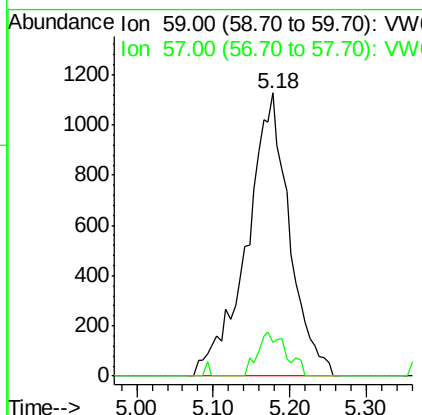
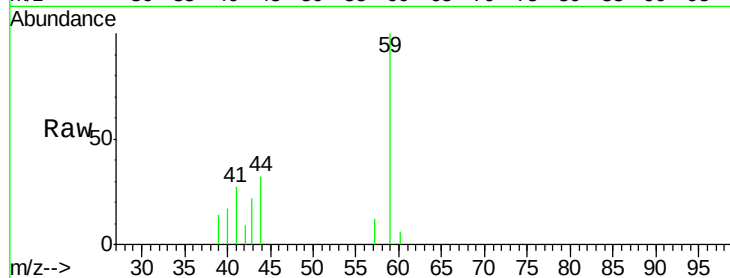


#11

Tert butyl alcohol
 Concen: 32.063 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

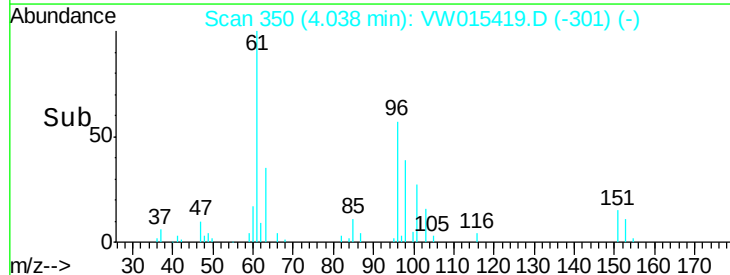
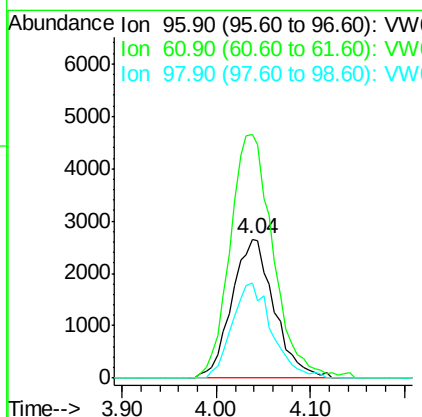
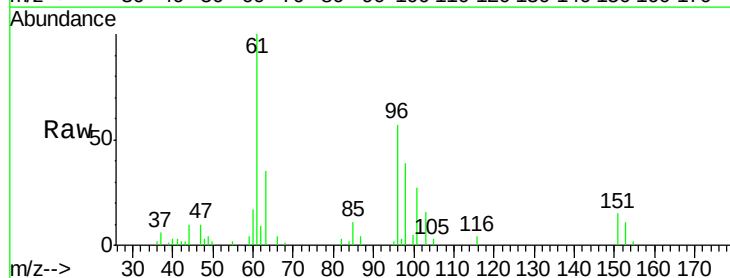
Tot Ion: 59 Resp: 4365
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.6 13.0

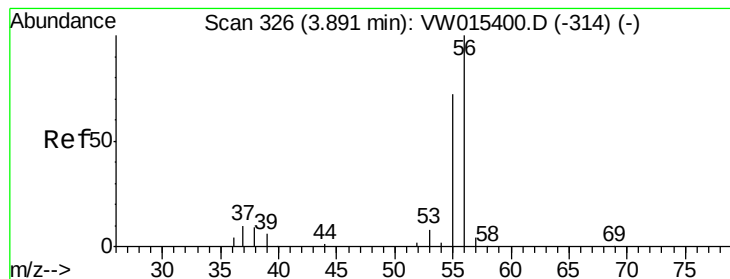


#12

1,1-Dichloroethene
 Concen: 4.011 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 96 Resp: 8327
 Ion Ratio Lower Upper
 96 100
 61 174.9 135.8 203.8
 98 68.4 48.6 72.8





#13

Acrolein

Concen: 19.776 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

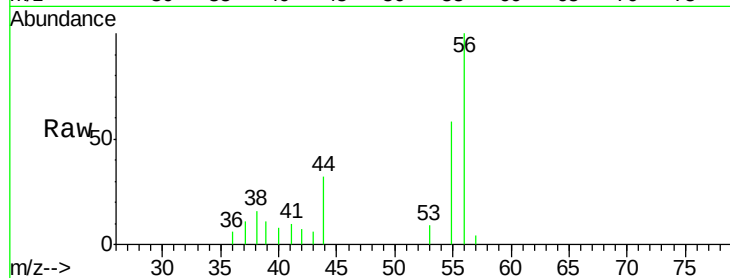
MDL-SOIL-03-QT2-2020DL

Tot Ion: 56 Resp: 3438

Ion Ratio Lower Upper

56 100

55 76.4 56.4 84.6



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.90

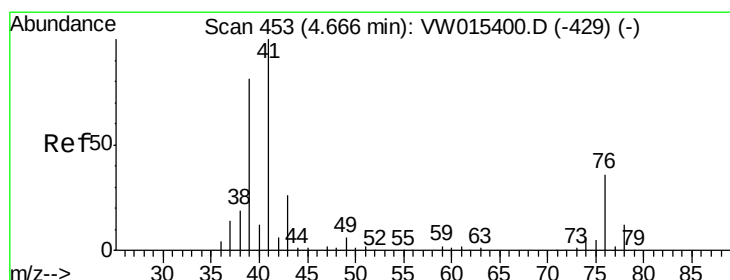
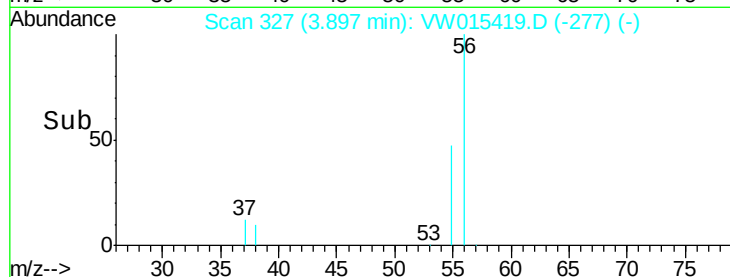
1500

1000

500

0

Time-->



#14

Allyl chloride

Concen: 3.876 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

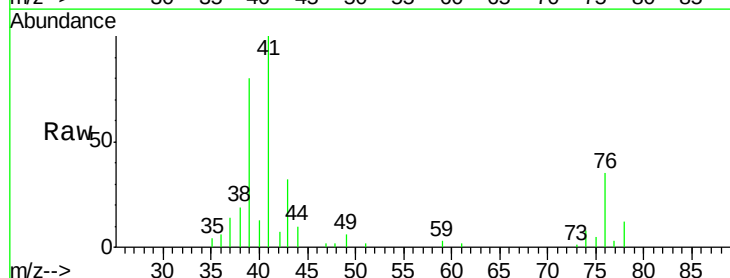
Tgt Ion: 41 Resp: 14098

Ion Ratio Lower Upper

41 100

39 85.5 63.6 95.4

76 36.7 28.4 42.6



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.67

6000

5000

4000

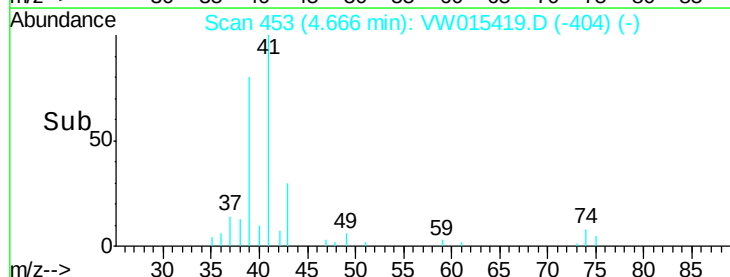
3000

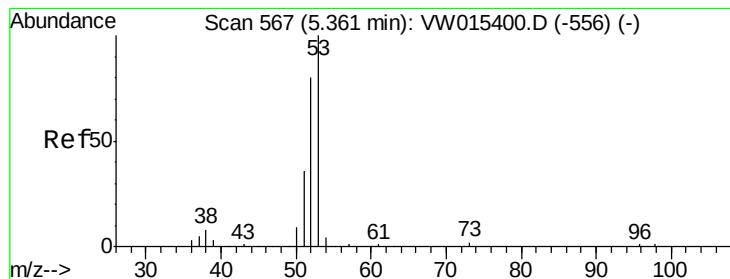
2000

1000

0

Time-->





#15

Acrylonitrile

Concen: 22.117 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

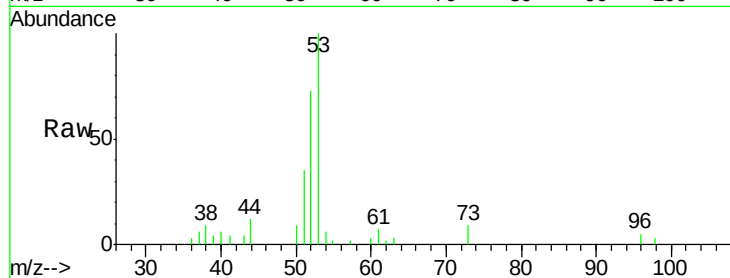
Tot Ion: 53 Resp: 9713

Ion Ratio Lower Upper

53 100

52 80.8 66.6 99.8

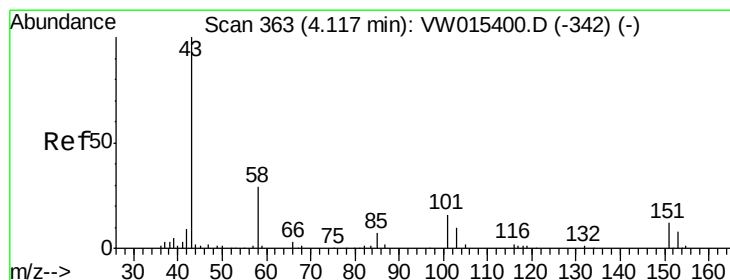
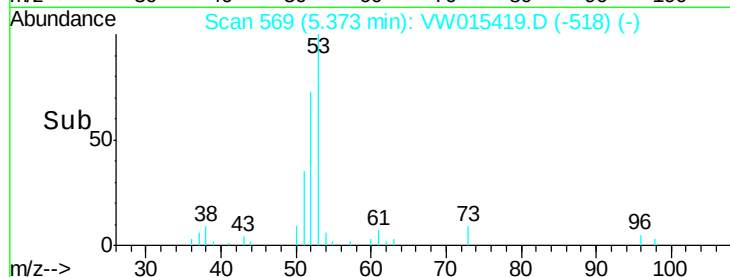
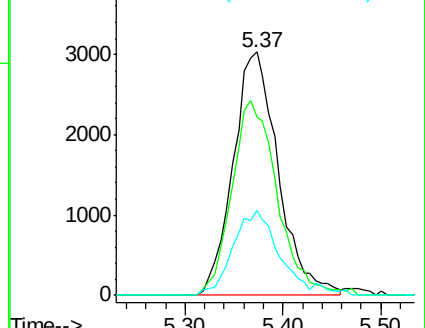
51 34.7 30.2 45.2



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 25.396 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW015419.D

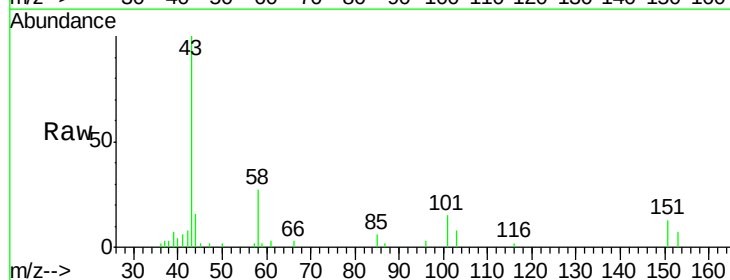
Acq: 07 May 2020 14:37

Tgt Ion: 43 Resp: 9314

Ion Ratio Lower Upper

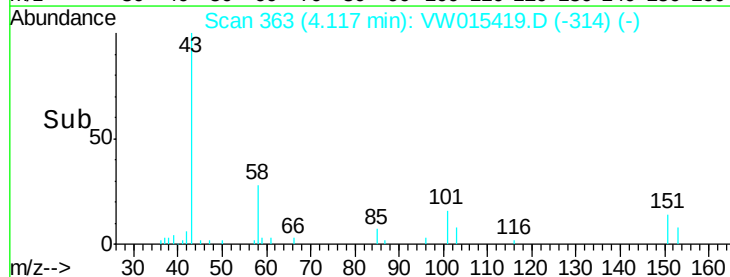
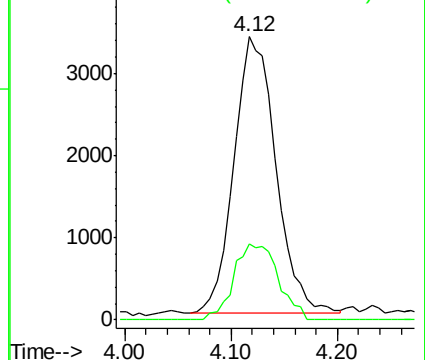
43 100

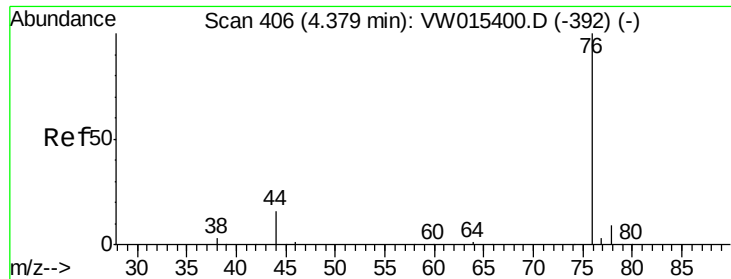
58 27.6 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

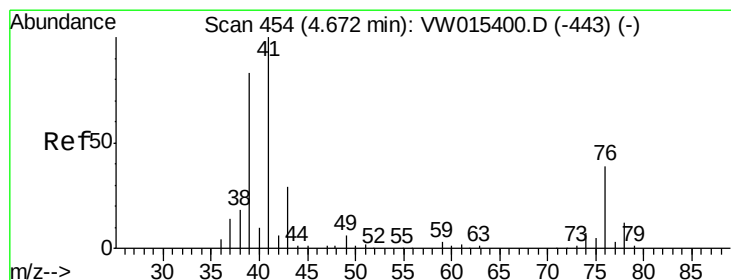
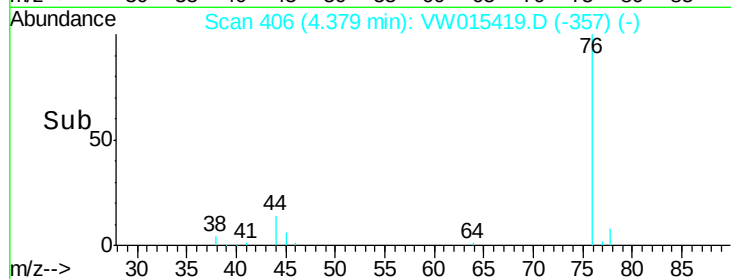
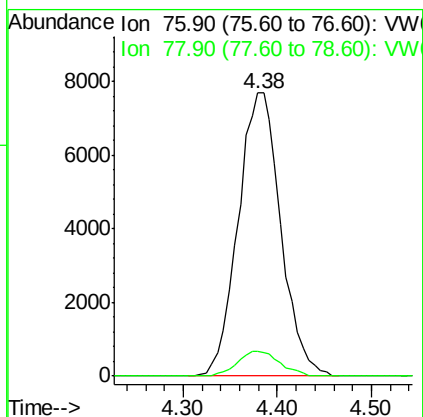
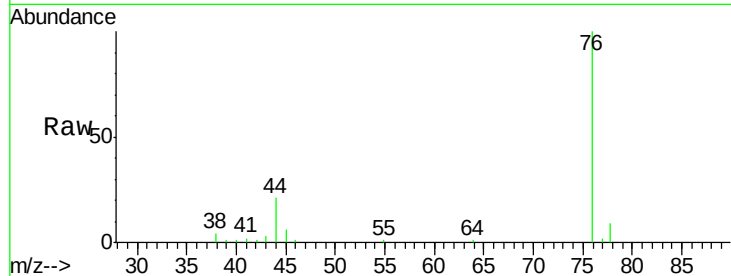




#17
Carbon Disulfide
Concen: 3.813 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

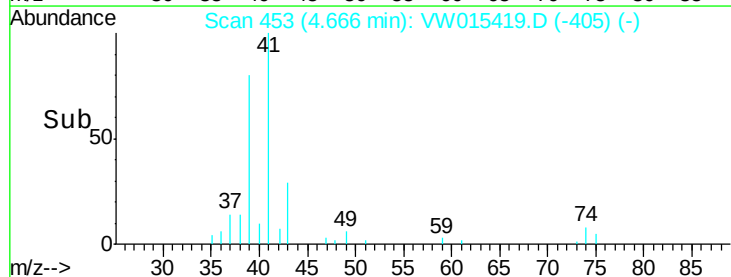
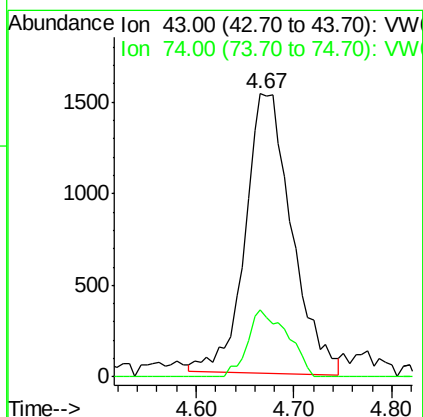
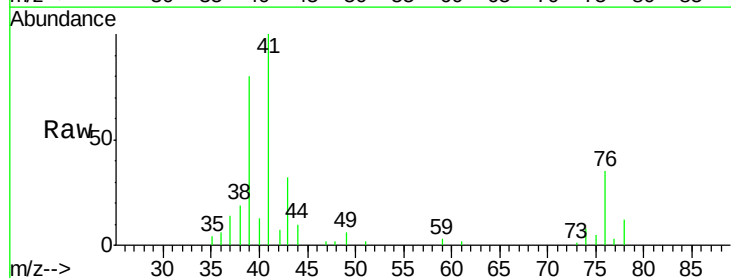
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

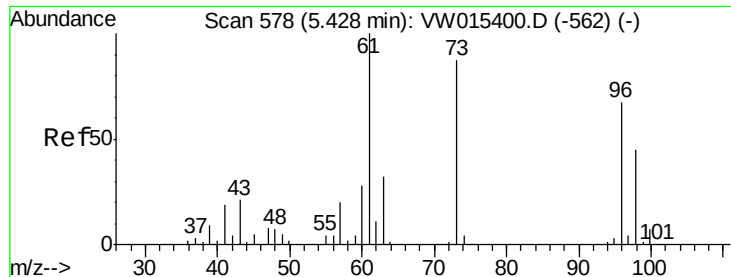
Tot Ion: 76 Resp: 24270
Ion Ratio Lower Upper
76 100
78 8.7 7.3 10.9



#18
Methyl Acetate
Concen: 5.208 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 43 Resp: 5071
Ion Ratio Lower Upper
43 100
74 20.4 18.7 28.1

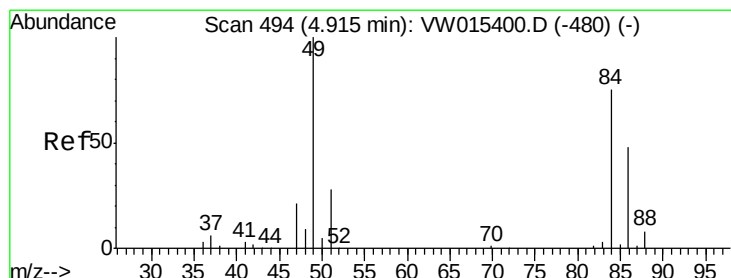
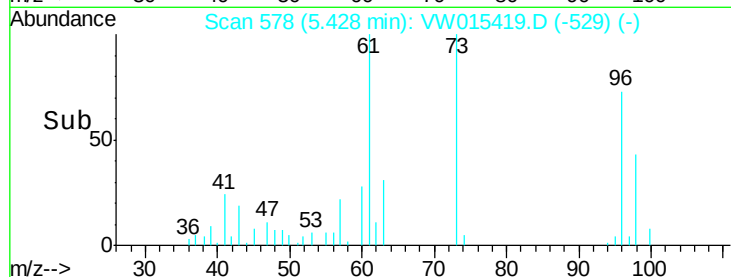
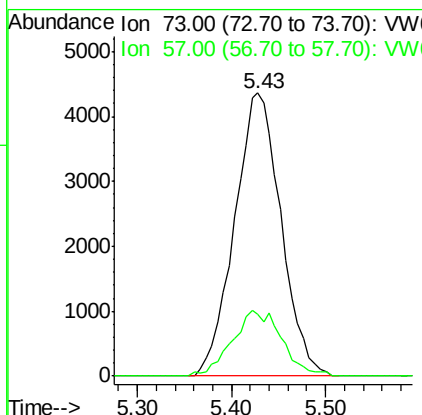
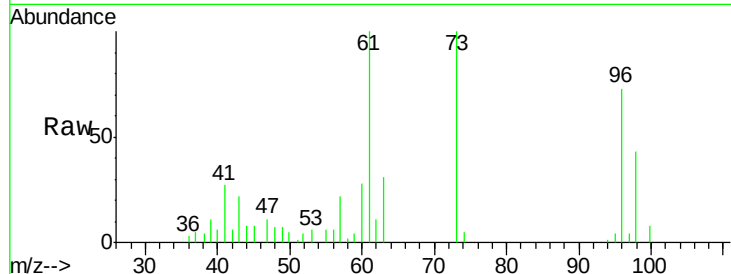




#19
Methyl tert-butyl Ether
Concen: 4.497 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

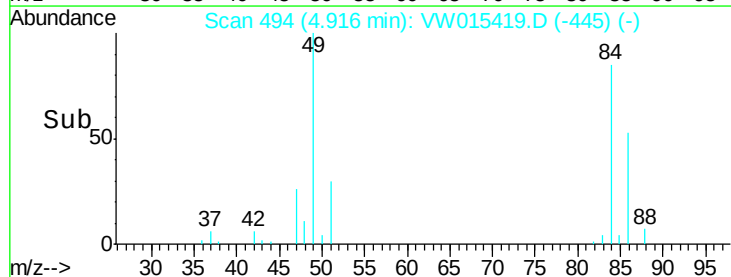
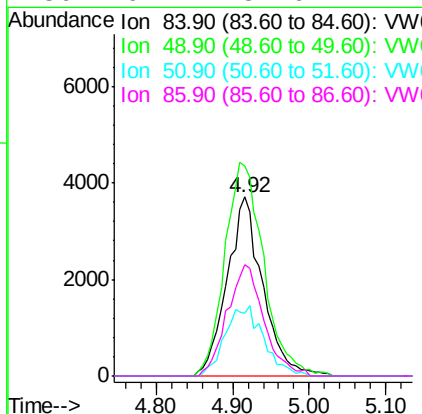
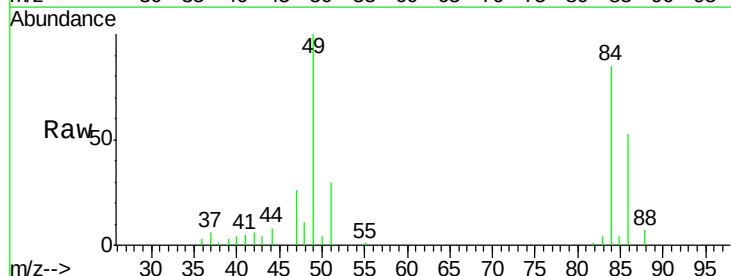
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

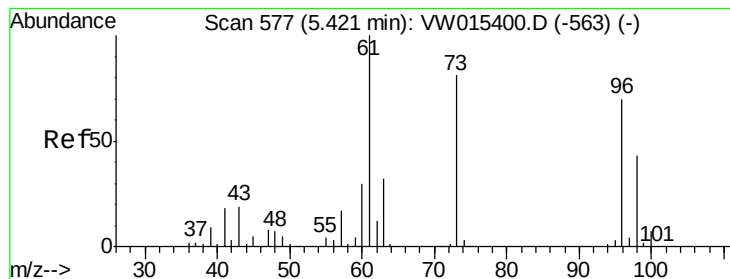
Tot Ion: 73 Resp: 15000
Ion Ratio Lower Upper
73 100
57 21.9 18.5 27.7



#20
Methylene Chloride
Concen: 4.989 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 84 Resp: 11938
Ion Ratio Lower Upper
84 100
49 117.3 106.4 159.6
51 35.3 30.2 45.2
86 62.4 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 4.090 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

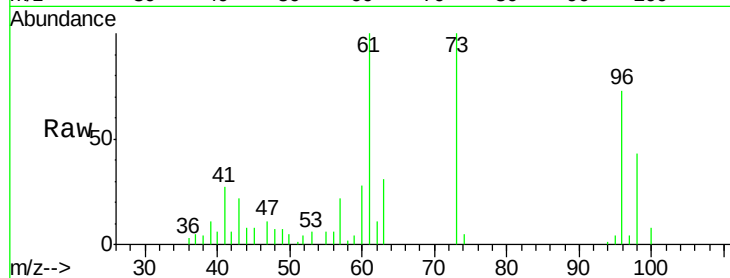
Tot Ion: 96 Resp: 9637

Ion Ratio Lower Upper

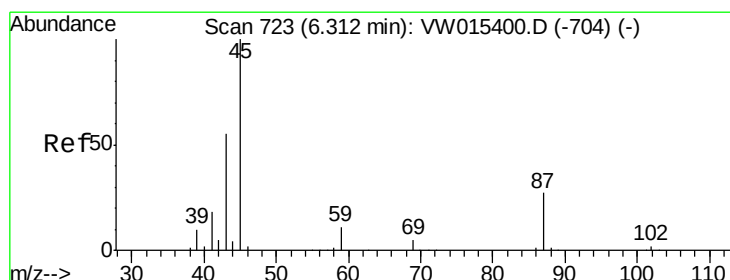
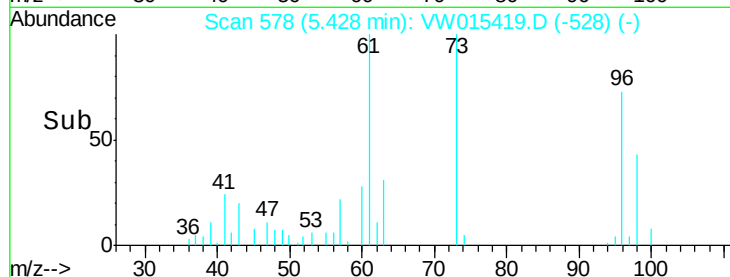
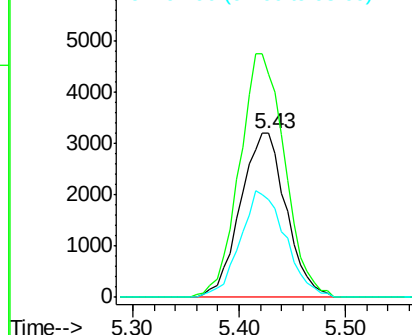
96 100

61 135.8 114.9 172.3

98 59.3 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: 4.171 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Tgt Ion: 45 Resp: 29644

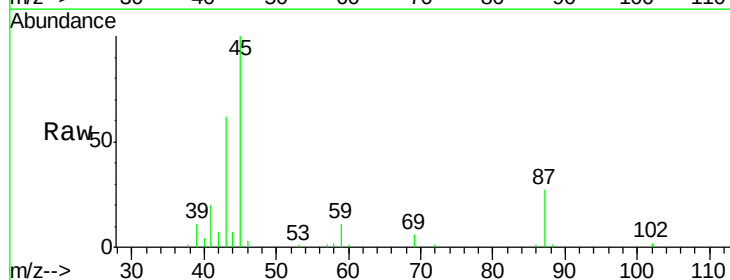
Ion Ratio Lower Upper

45 100

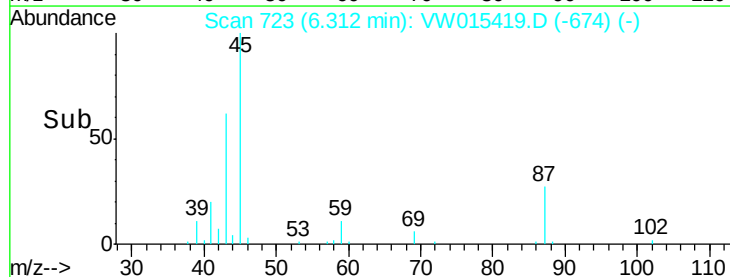
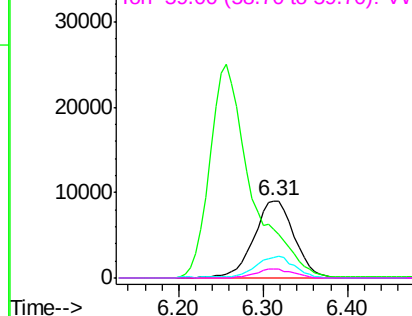
43 60.4 44.2 66.4

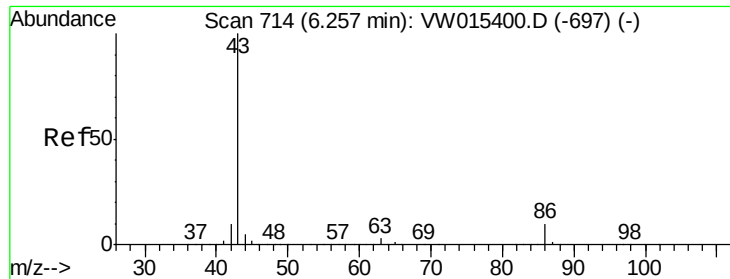
87 27.0 21.6 32.4

59 11.4 9.0 13.6



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: 19.750 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

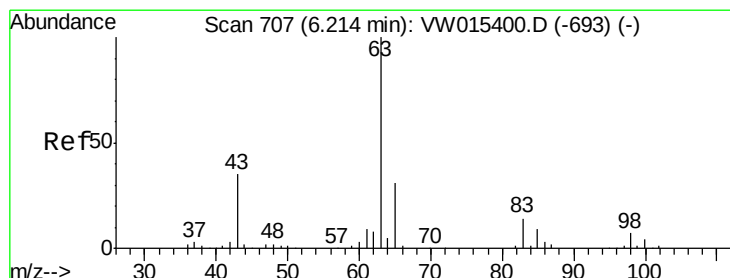
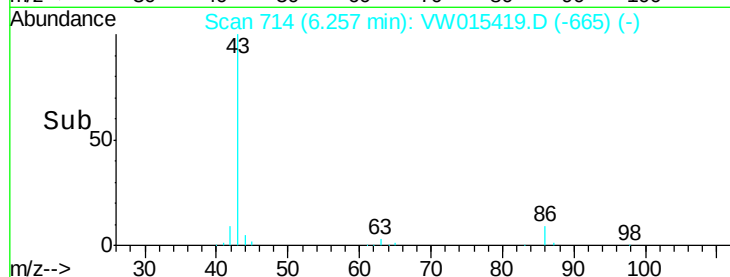
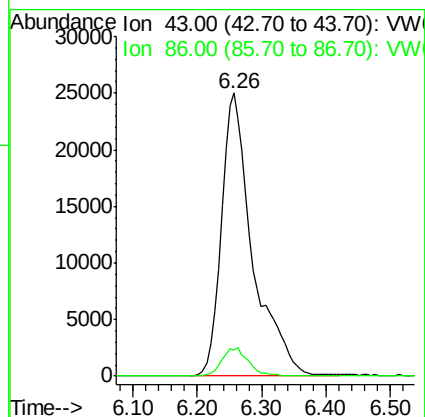
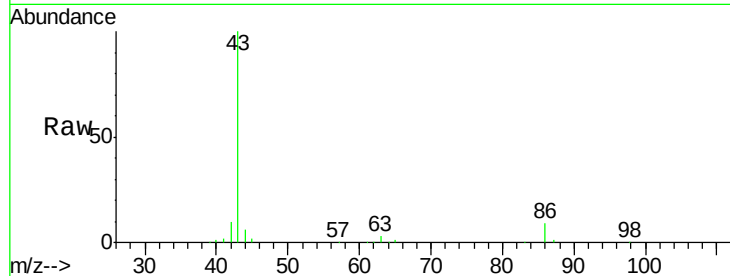
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 85327

Ion Ratio Lower Upper

43 100

86 9.4 8.1 12.1



#24

1,1-Dichloroethane

Concen: 4.159 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

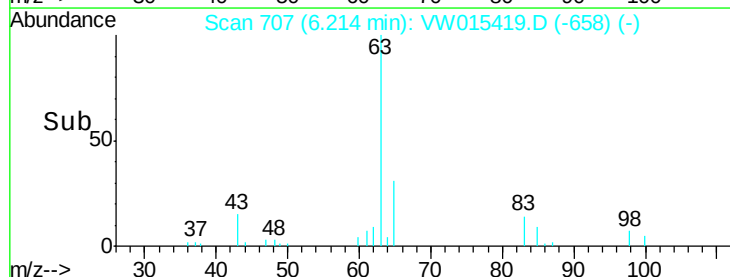
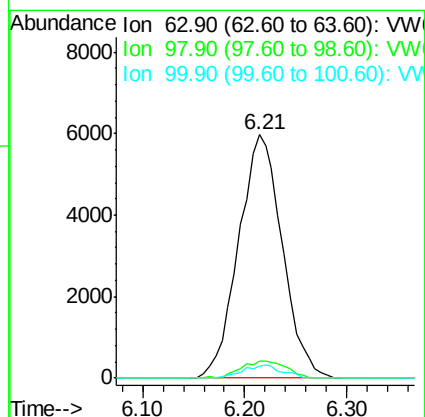
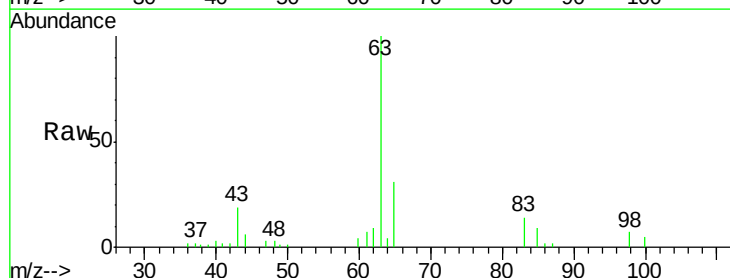
Tgt Ion: 63 Resp: 17722

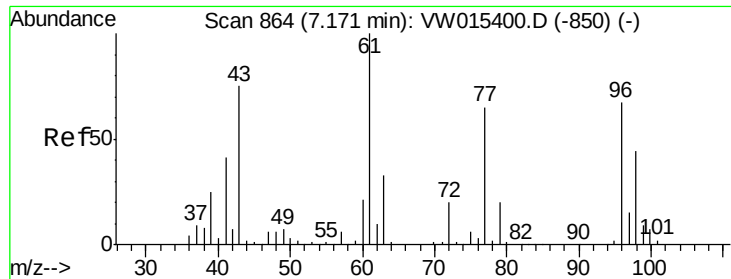
Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.4

100 4.8 2.1 6.5

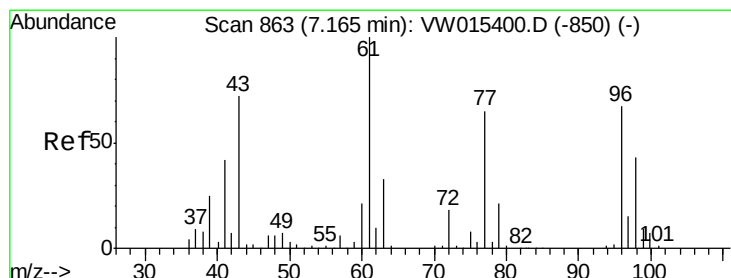
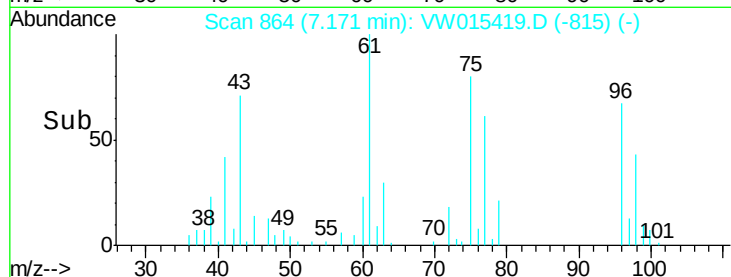
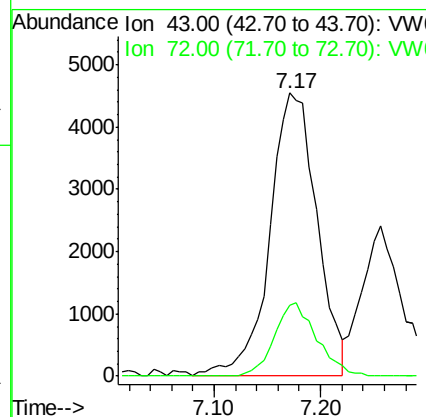
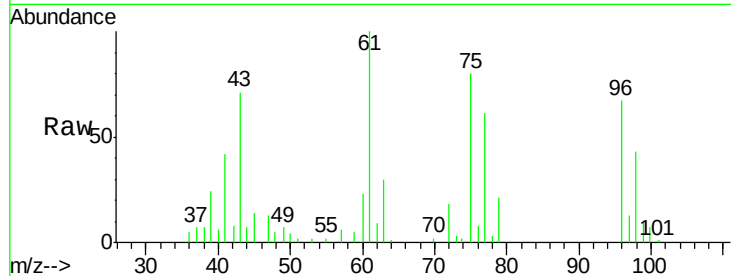




#25
 2-Butanone
 Concen: 24.429 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

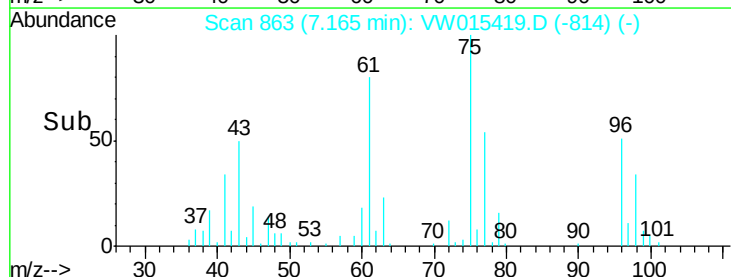
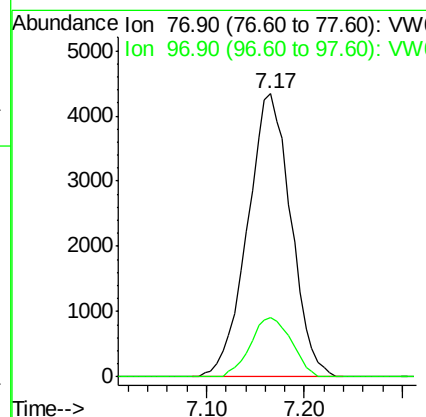
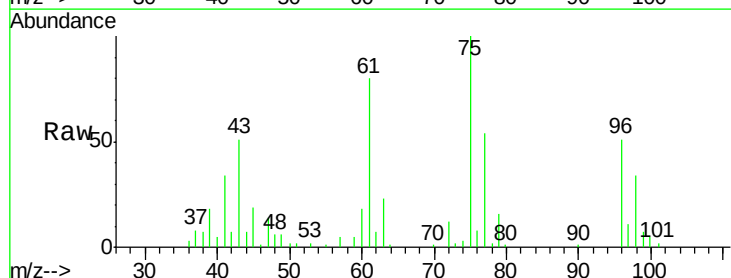
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

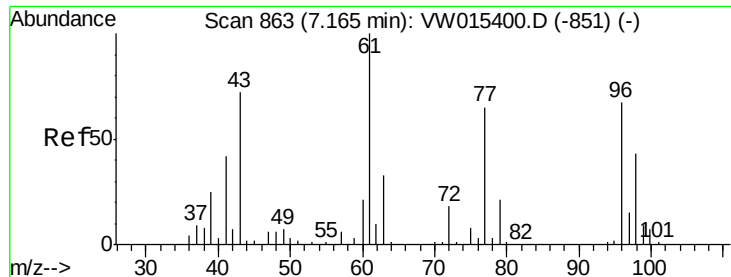
Tot Ion: 43 Resp: 13965
 Ion Ratio Lower Upper
 43 100
 72 24.9 21.4 32.0



#26
 2,2-Dichloropropane
 Concen: 4.728 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 77 Resp: 13353
 Ion Ratio Lower Upper
 77 100
 97 19.9 11.1 33.1



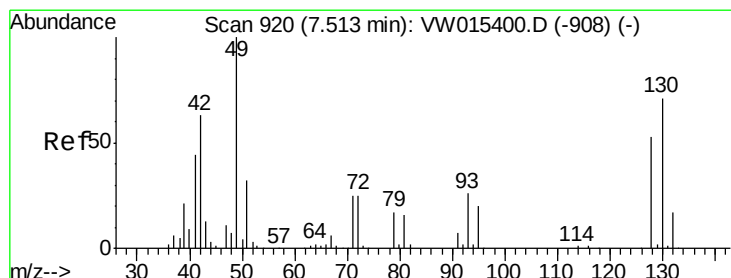
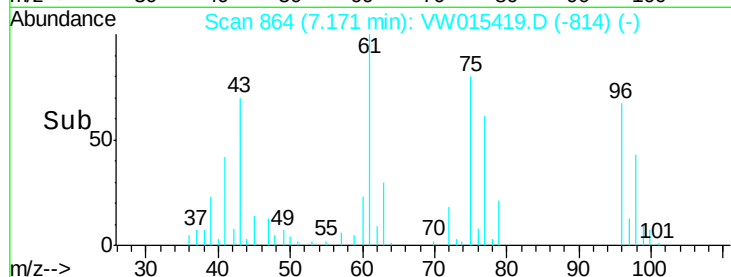
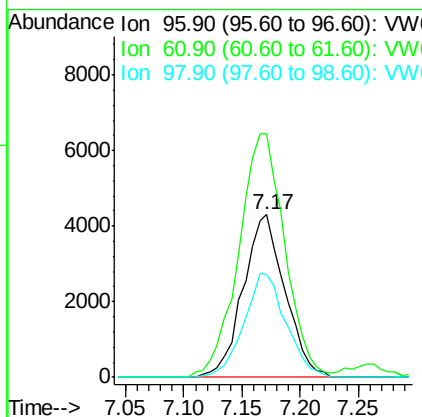
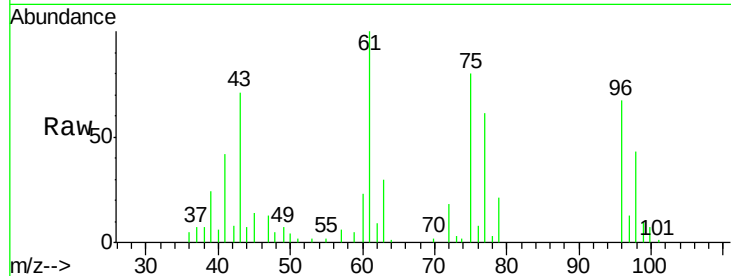


#27

cis-1,2-Dichloroethene
Concen: 4.187 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

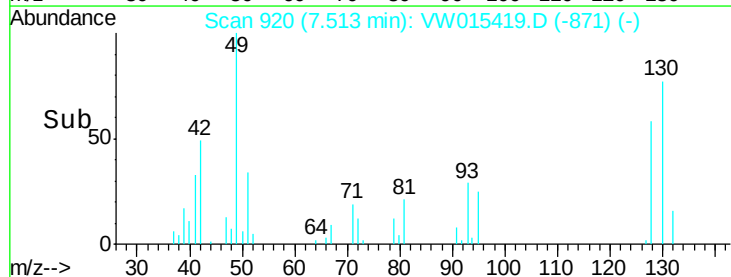
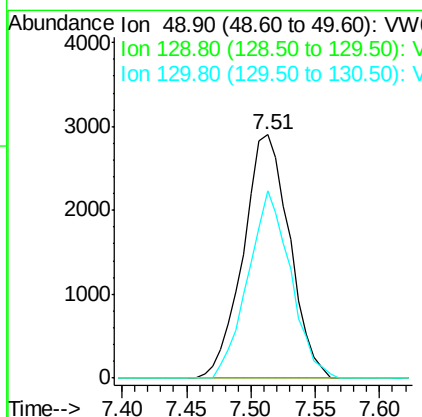
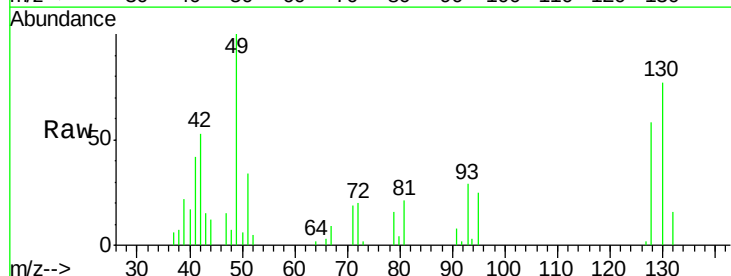
Tot Ion: 96 Resp: 10712
Ion Ratio Lower Upper
96 100
61 164.9 0.0 304.6
98 64.5 0.0 129.2

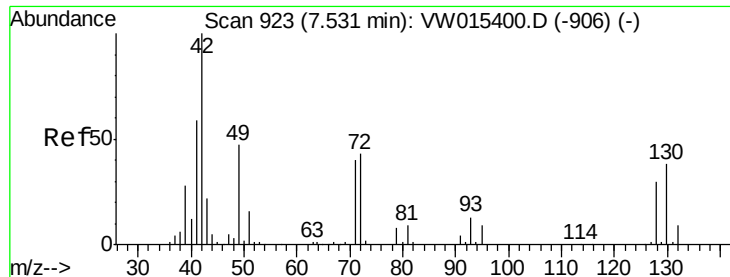


#28

Bromochloromethane
Concen: 4.221 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 49 Resp: 7231
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.0
130 70.6 57.0 85.4

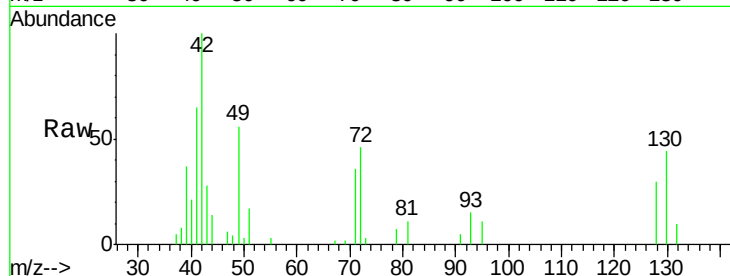




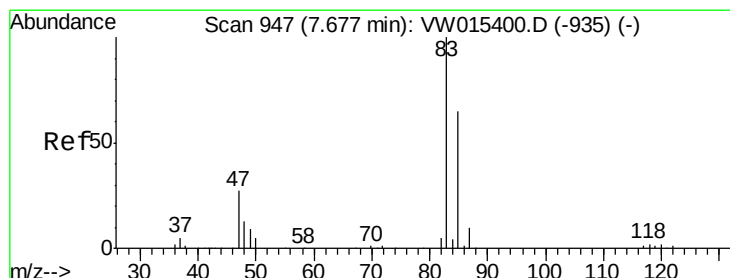
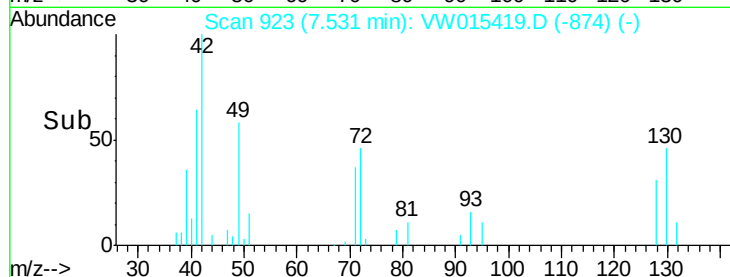
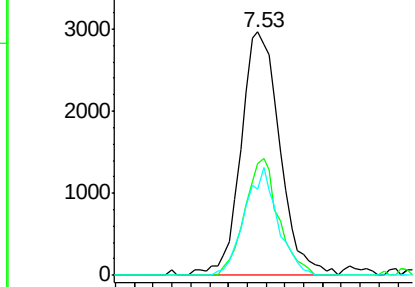
#29
Tetrahydrofuran
Concen: 22.862 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion: 42 Resp: 8601
Ion Ratio Lower Upper
42 100
72 41.7 33.6 50.4
71 37.7 32.1 48.1

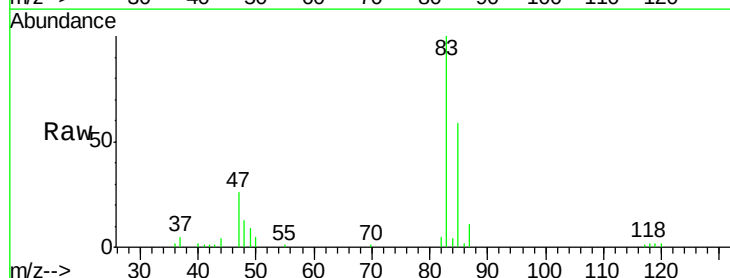


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

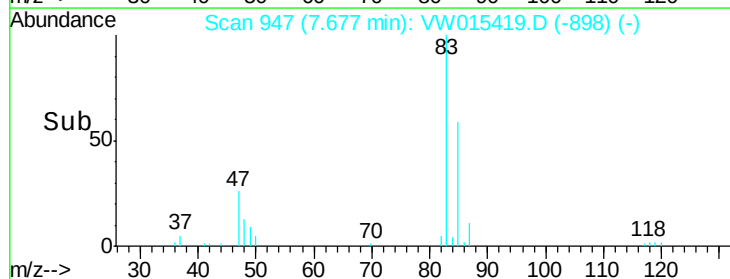
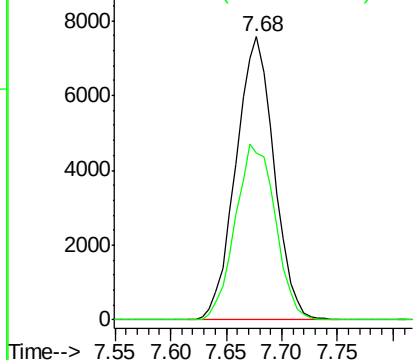


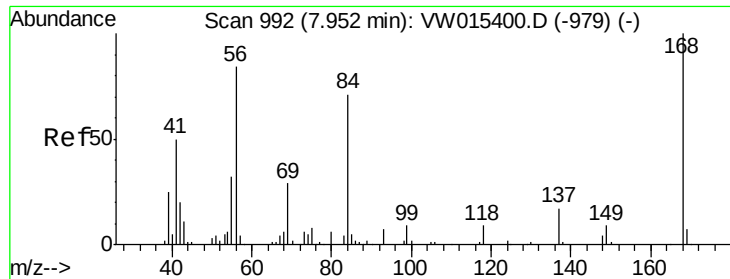
#30
Chloroform
Concen: 4.260 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 83 Resp: 18034
Ion Ratio Lower Upper
83 100
85 59.1 51.8 77.6



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

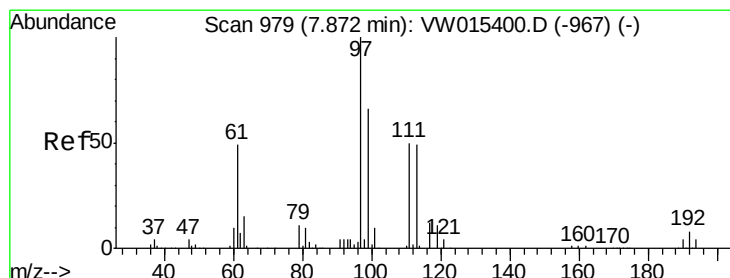
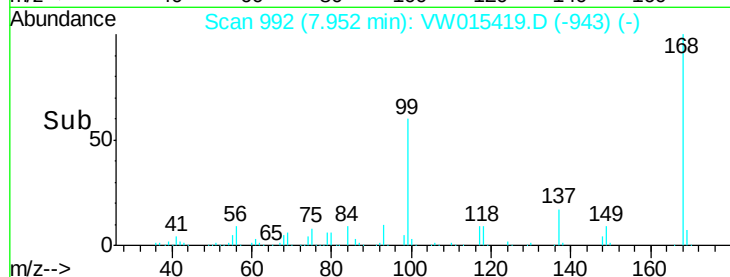
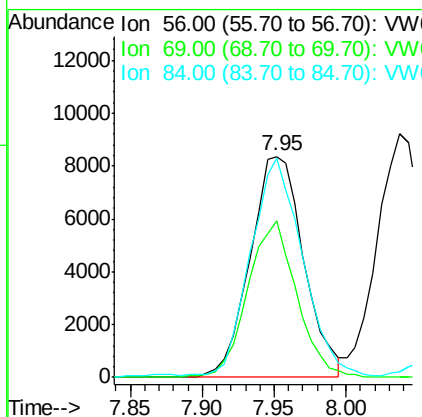
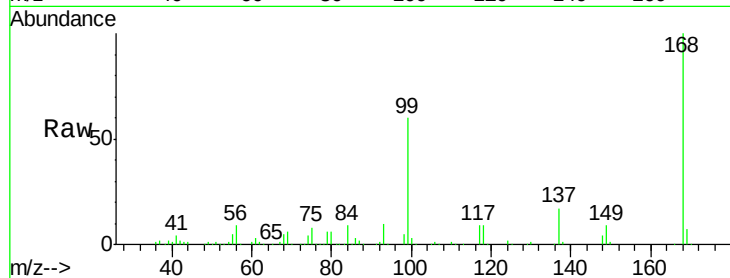




#31
Cyclohexane
Concen: 4.996 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

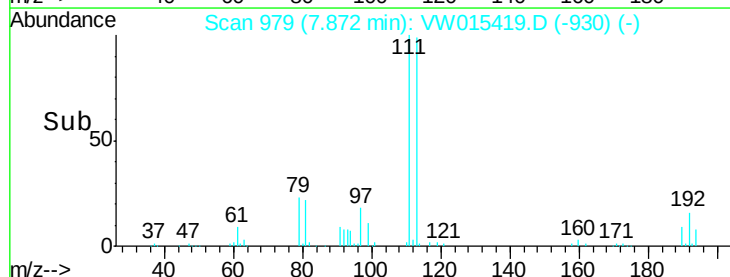
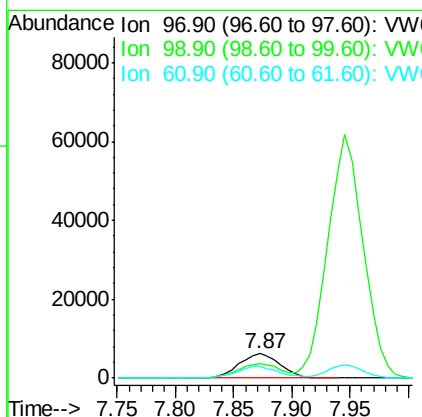
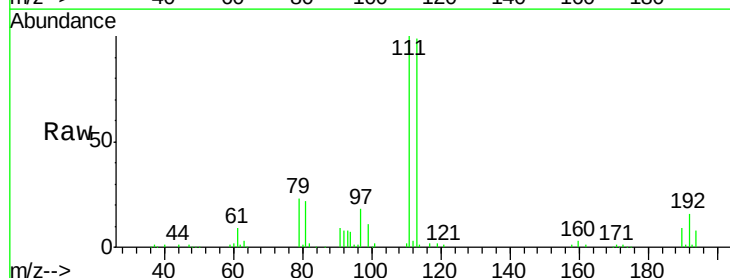
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

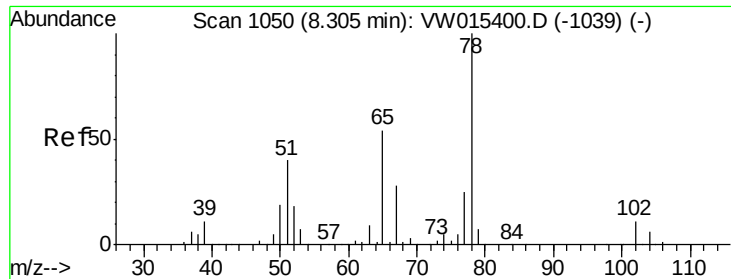
Tot Ion: 56 Resp: 21612
Ion Ratio Lower Upper
56 100
69 70.1 27.2 40.8#
84 97.9 67.7 101.5



#32
1,1,1-Trichloroethane
Concen: 4.332 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 97 Resp: 15414
Ion Ratio Lower Upper
97 100
99 62.7 50.7 76.1
61 47.8 38.0 57.0

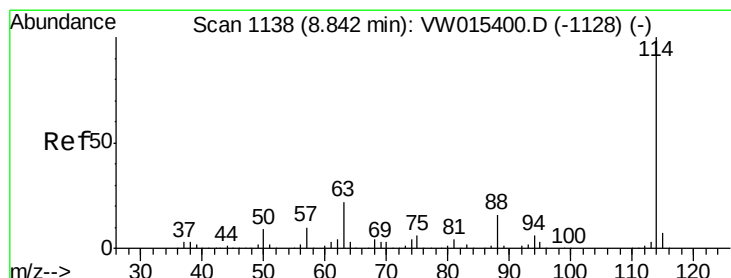
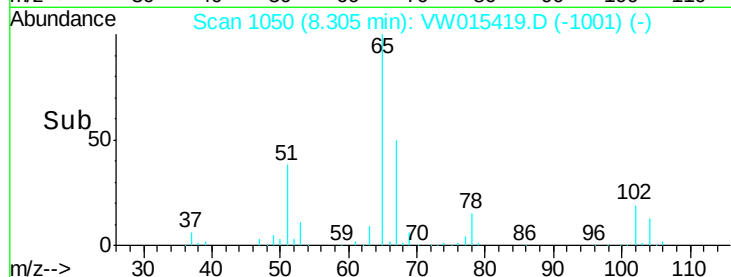
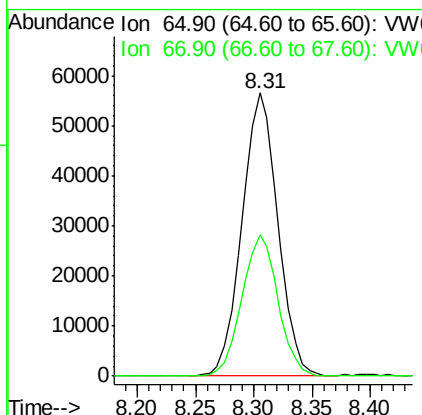
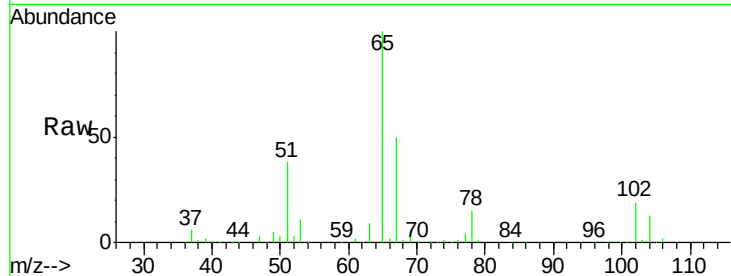




#33
 1,2-Dichloroethane-d4
 Concen: 51.304 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

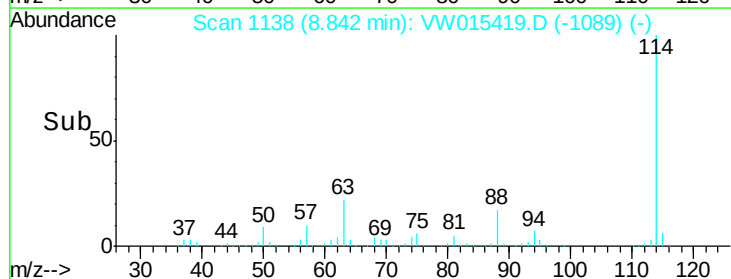
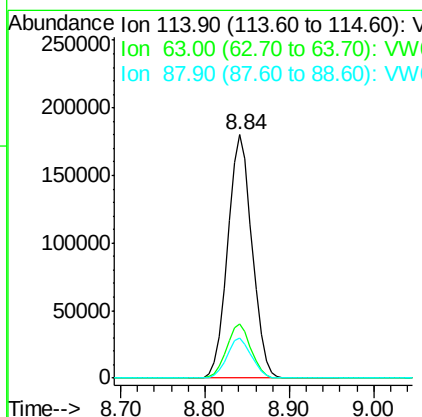
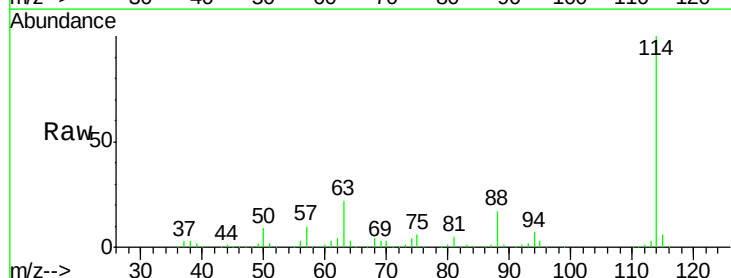
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

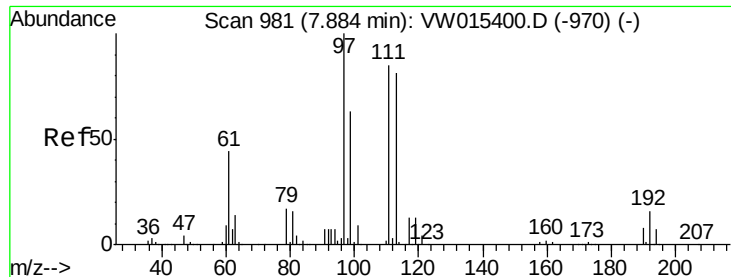
Tot Ion: 65 Resp: 121121
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 114 Resp: 352433
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.4
 88 16.6 0.0 31.8

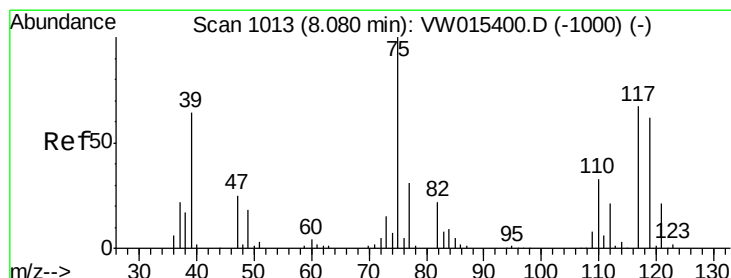
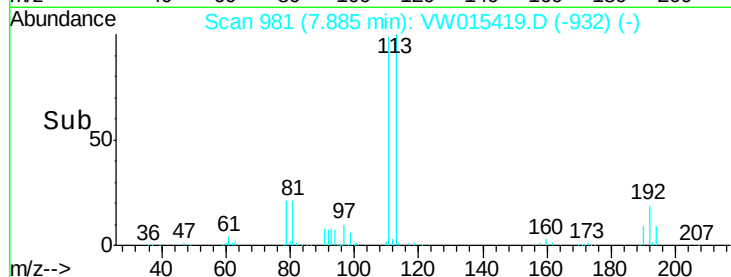
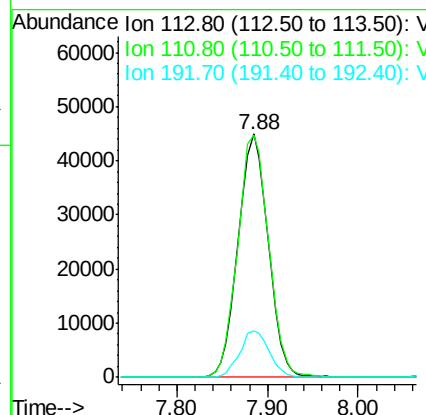
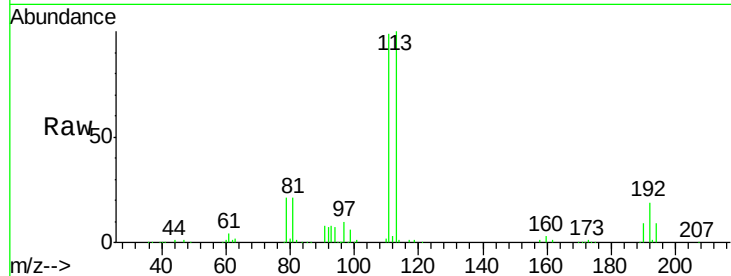




#35
 Dibromofluoromethane
 Concen: 51.425 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

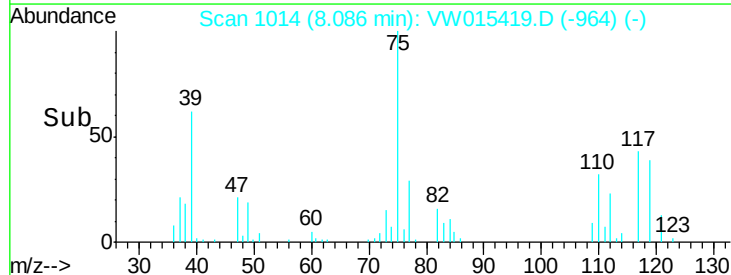
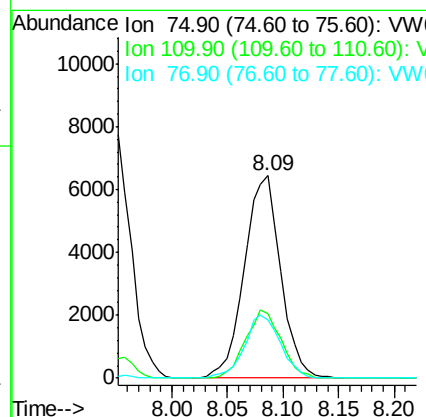
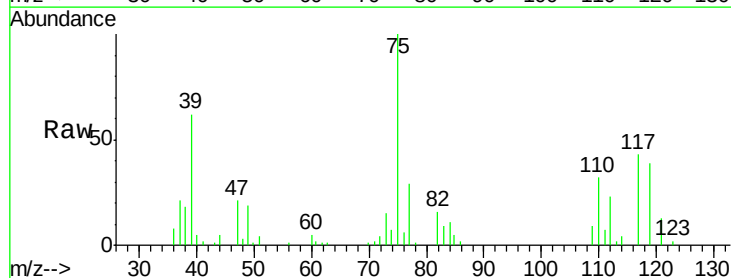
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

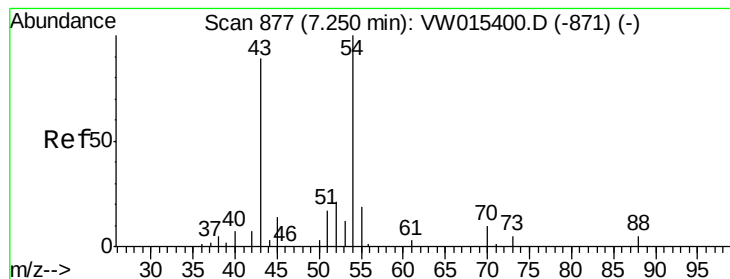
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.9	124.3
192	18.8	15.4	23.0



#36
 1,1-Dichloropropene
 Concen: 4.219 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. 0.01 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.6	49.8
77	30.7	24.5	36.7





#37

Ethyl Acetate

Concen: 4.454 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

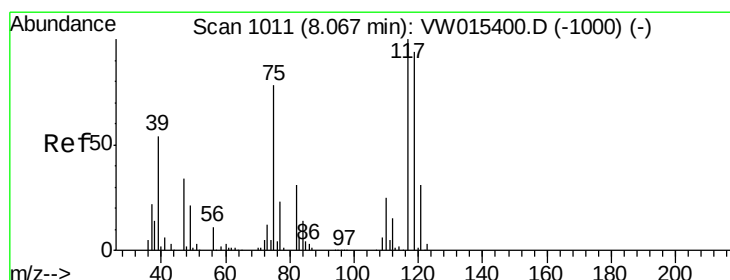
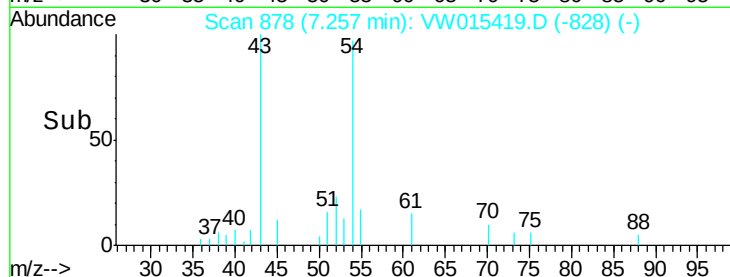
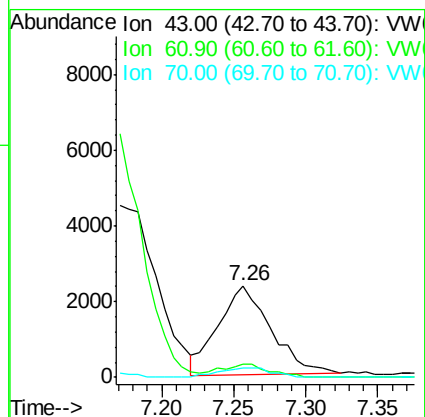
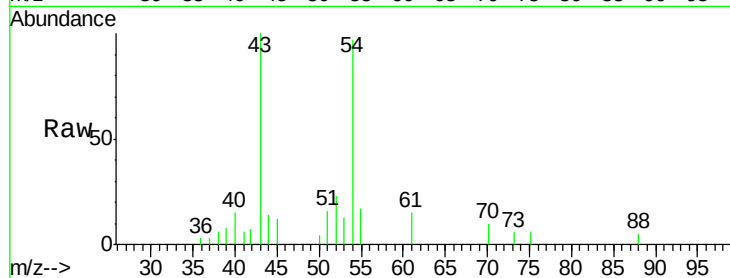
Tot Ion: 43 Resp: 5984

Ion Ratio Lower Upper

43 100

61 13.9 10.2 15.2

70 10.4 8.0 12.0



#38

Carbon Tetrachloride

Concen: 4.178 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

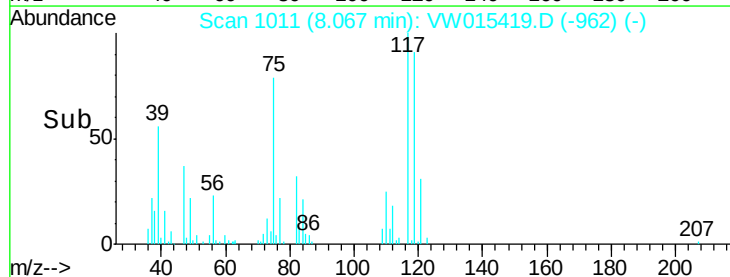
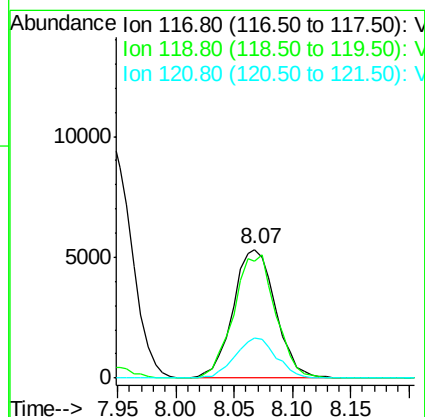
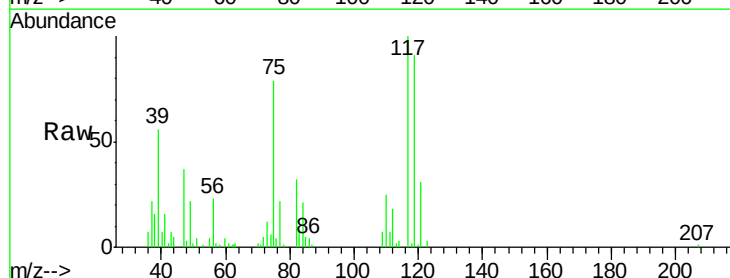
Tgt Ion: 117 Resp: 13526

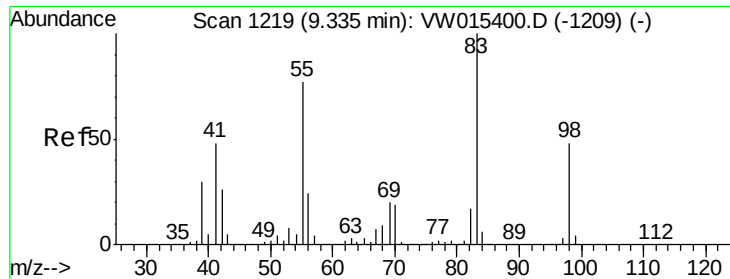
Ion Ratio Lower Upper

117 100

119 90.9 75.4 113.0

121 31.2 24.8 37.2

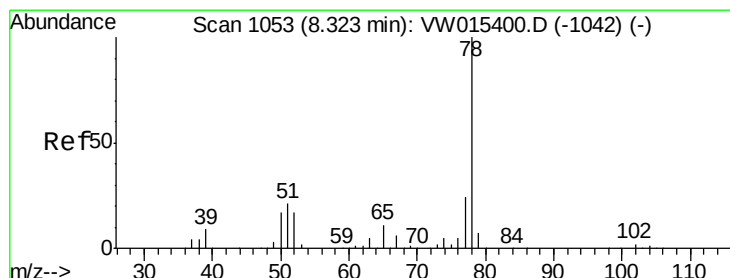
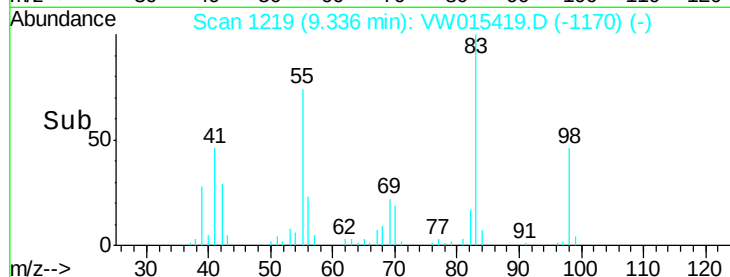
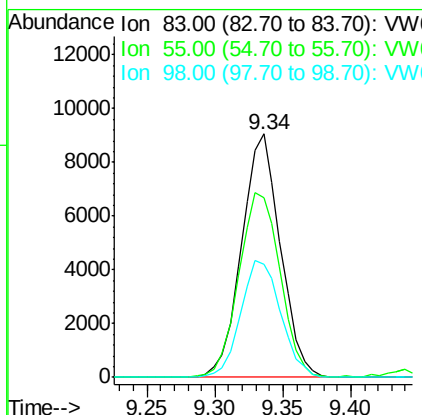
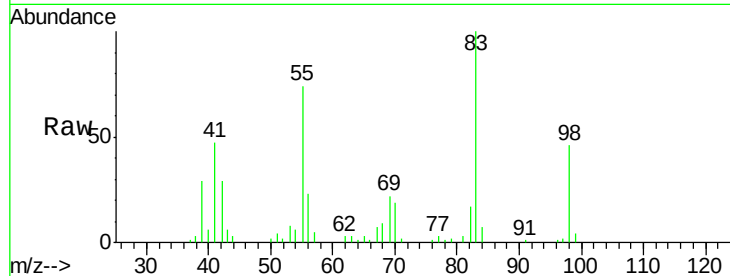




#39
Methylvlcyclohexane
Concen: 4.113 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

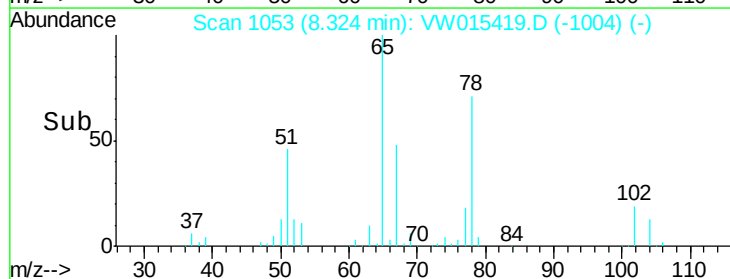
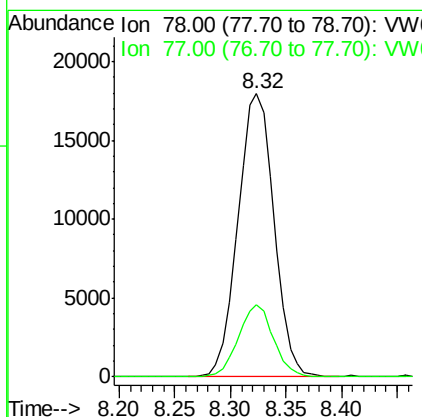
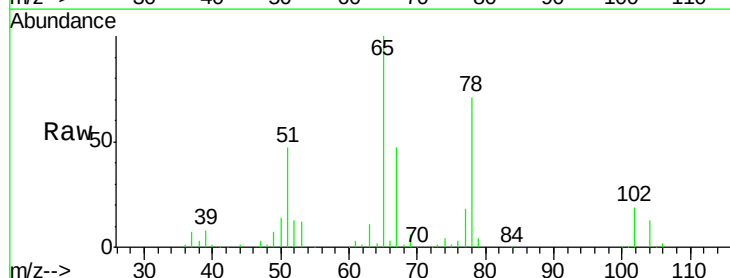
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

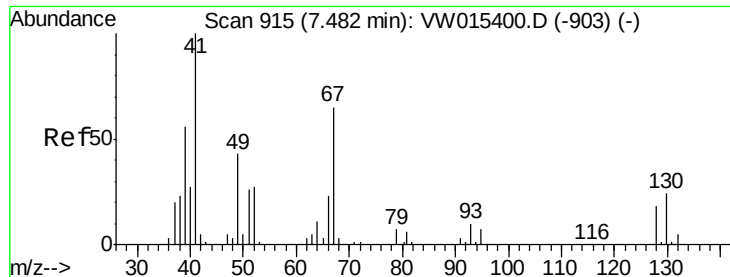
Tot Ion: 83 Resp: 18029
Ion Ratio Lower Upper
83 100
55 73.7 61.9 92.9
98 46.4 38.2 57.2



#40
Benzene
Concen: 4.277 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 78 Resp: 40389
Ion Ratio Lower Upper
78 100
77 25.3 19.0 28.4

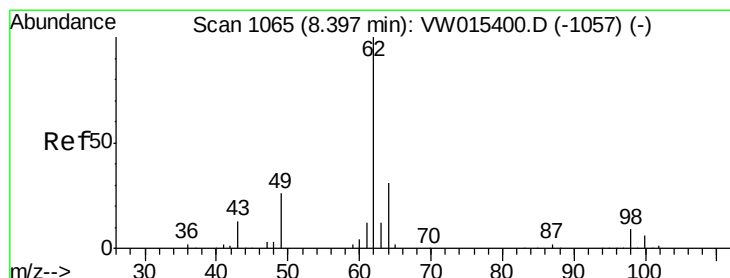
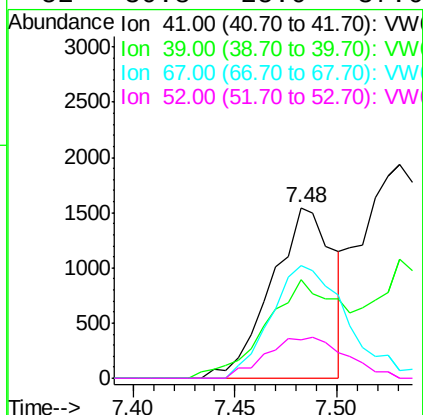
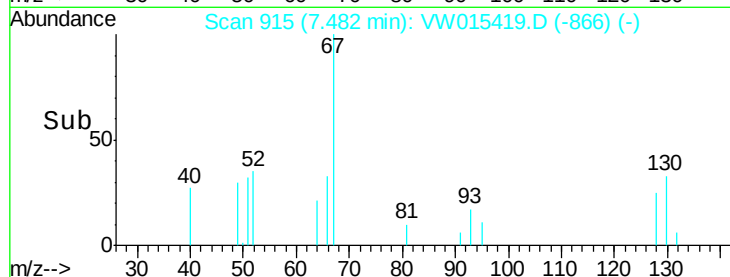
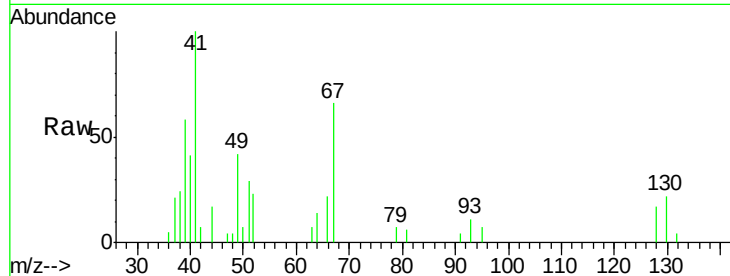




#41
Methacrylonitrile
Concen: 3.844 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

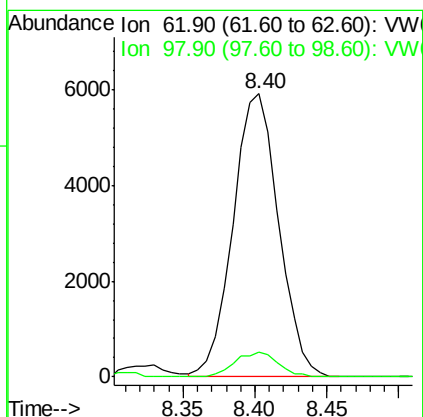
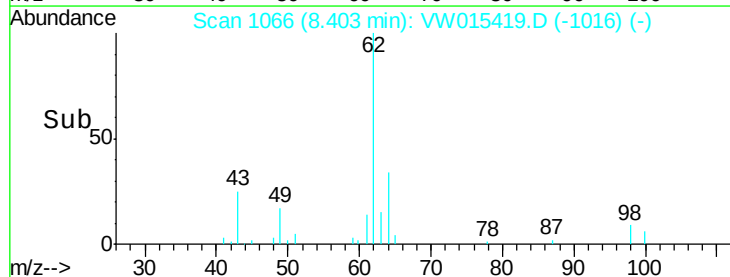
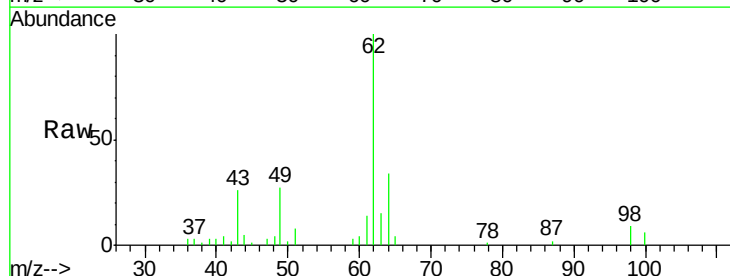
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

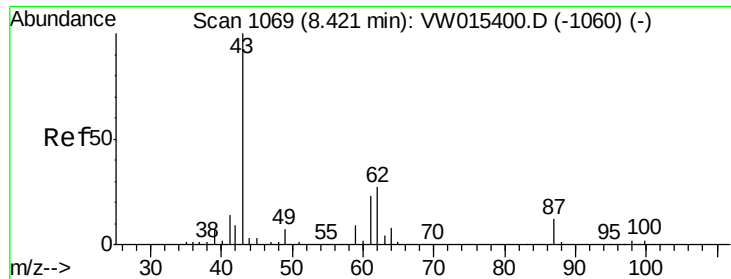
Tot Ion:	41	Resp:	3263
Ion	Ratio	Lower	Upper
41	100		
39	69.3	46.2	69.4
67	81.1	56.2	84.2
52	30.8	25.0	37.6



#42
1,2-Dichloroethane
Concen: 4.525 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion:	62	Resp:	13015
Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.6





#43

Isopropyl Acetate

Concen: 4.309 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

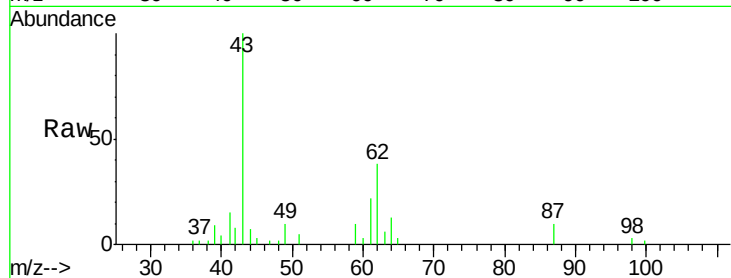
Tot Ion: 43 Resp: 12177

Ion Ratio Lower Upper

43 100

61 30.4 24.3 36.5

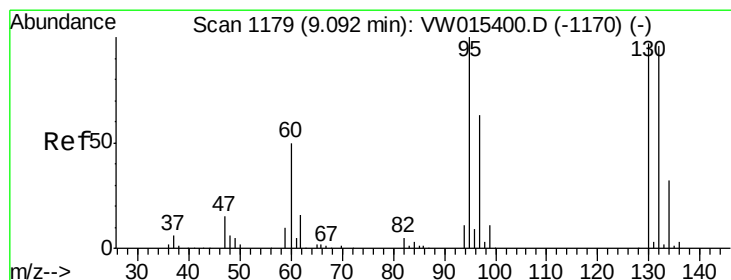
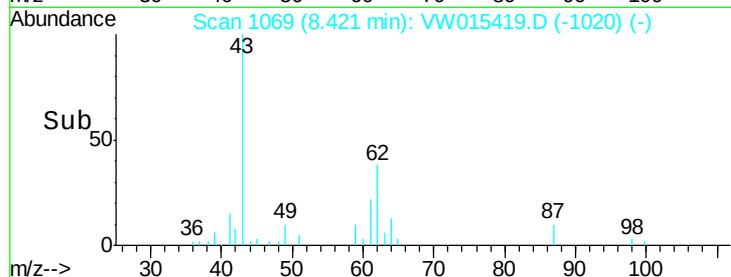
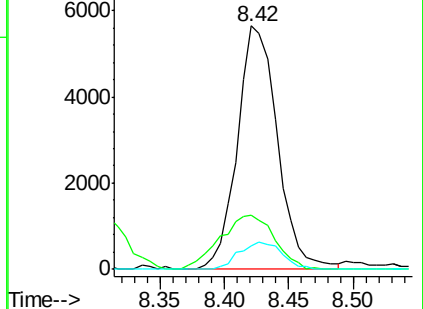
87 12.0 10.1 15.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 4.270 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015419.D

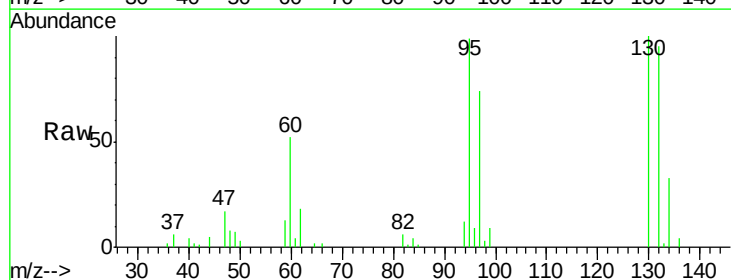
Acq: 07 May 2020 14:37

Tgt Ion:130 Resp: 10452

Ion Ratio Lower Upper

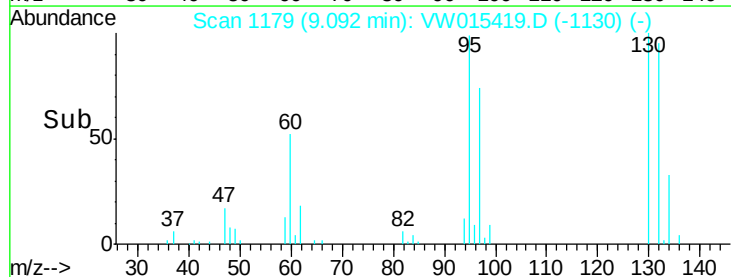
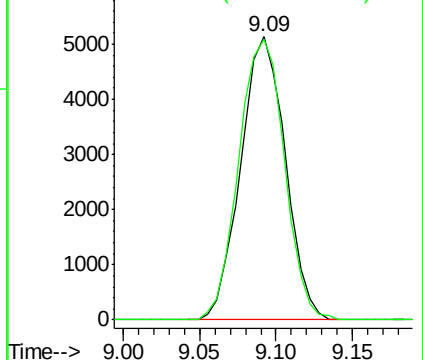
130 100

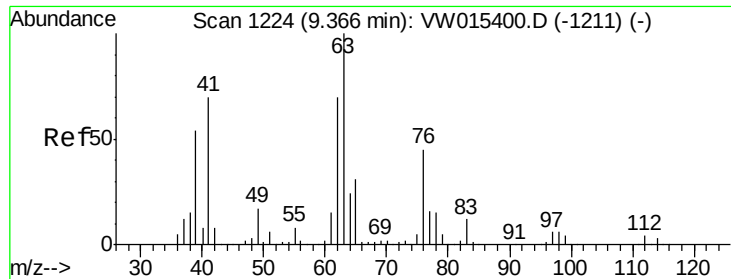
95 99.1 0.0 205.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

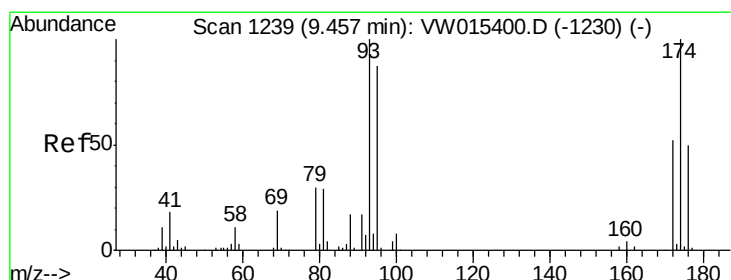
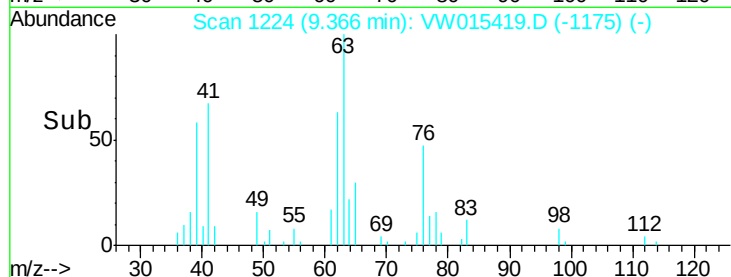
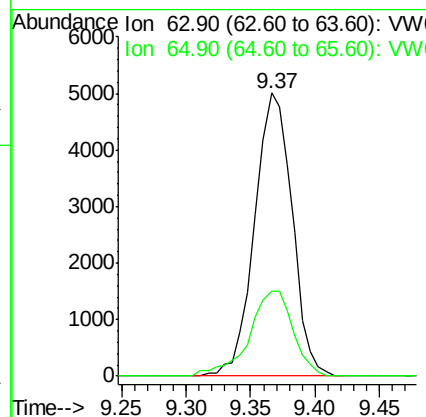
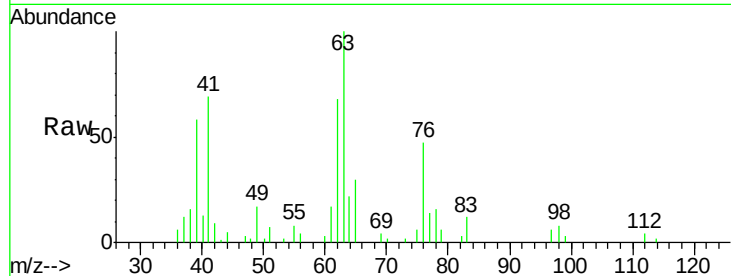




#45
 1,2-Dichloropropane
 Concen: 4.329 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

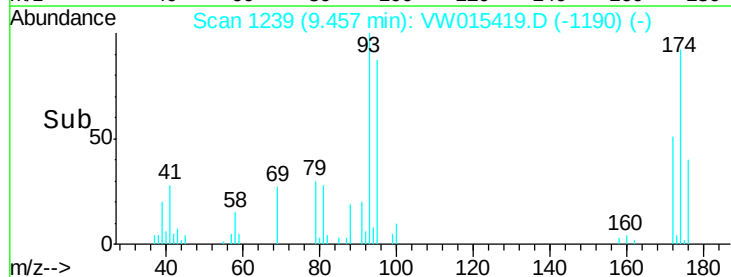
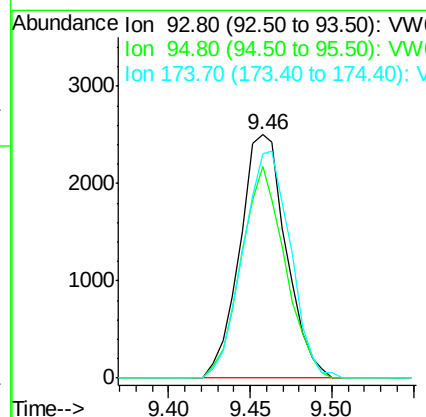
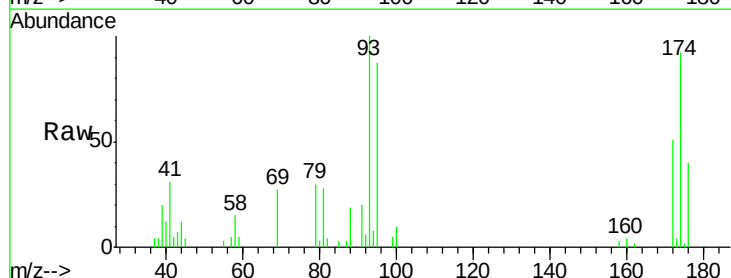
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

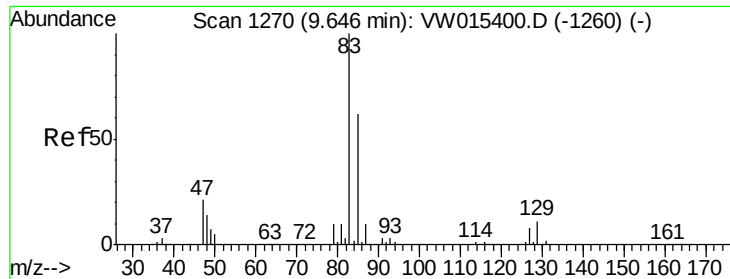
Tot Ion: 63 Resp: 10098
 Ion Ratio Lower Upper
 63 100
 65 29.8 25.0 37.6



#46
 Dibromomethane
 Concen: 4.255 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 93 Resp: 4937
 Ion Ratio Lower Upper
 93 100
 95 82.6 67.0 100.4
 174 95.2 78.4 117.6

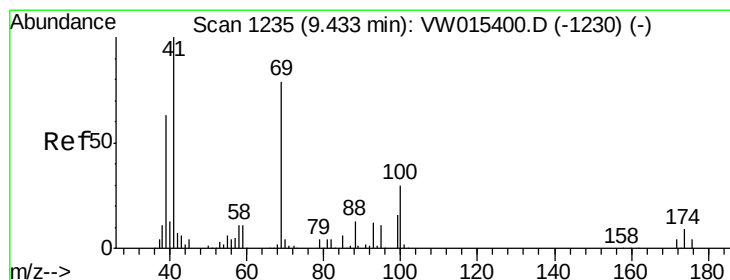
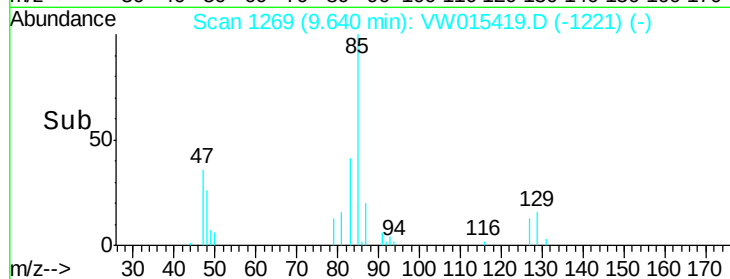
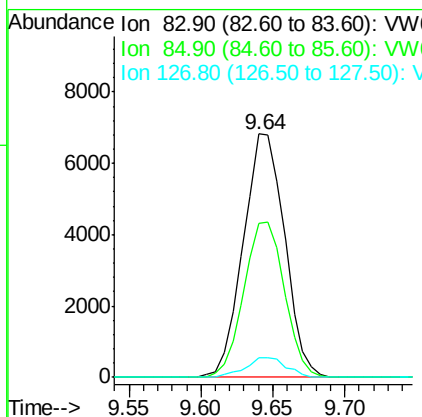
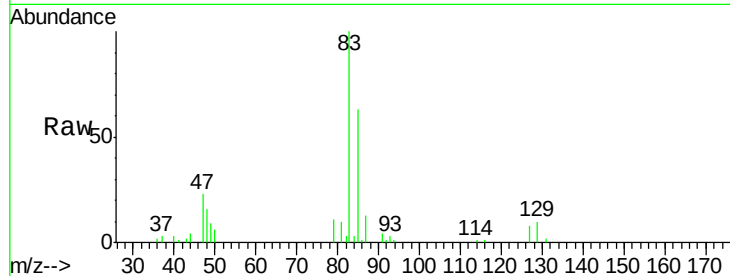




#47
 Bromodichloromethane
 Concen: 4.290 ug/l
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

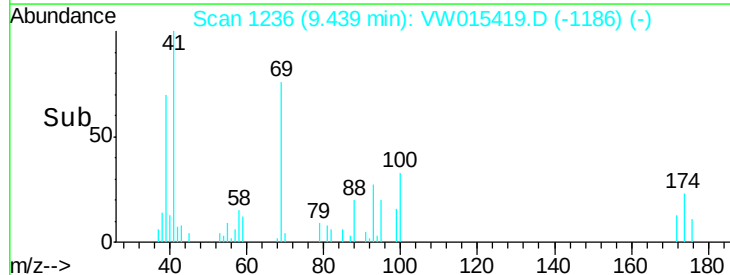
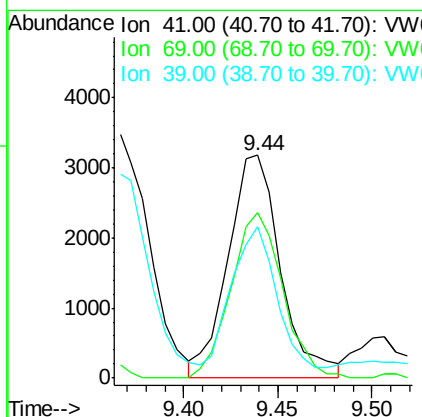
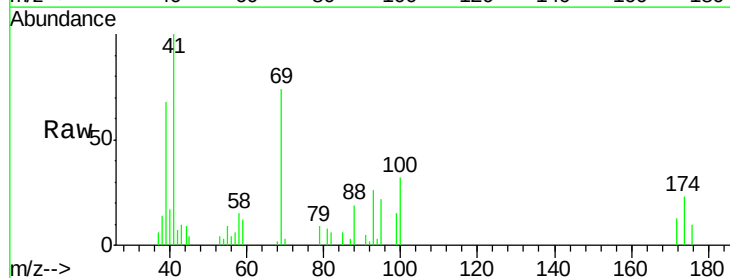
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

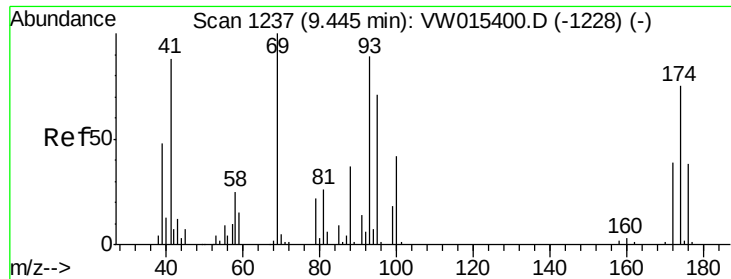
Tot Ion	83	Resp	13565
Ion Ratio	Lower	Upper	
83	100		
85	63.4	49.4	74.0
127	8.1	6.4	9.6



#48
 Methyl methacrylate
 Concen: 4.724 ug/l
 RT: 9.44 min Scan# 1236
 Delta R.T. 0.01 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion	41	Resp	6166
Ion Ratio	Lower	Upper	
41	100		
69	72.8	66.2	99.4
39	54.4	51.1	76.7





#49

1,4-Dioxane

Concen: 98.616 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

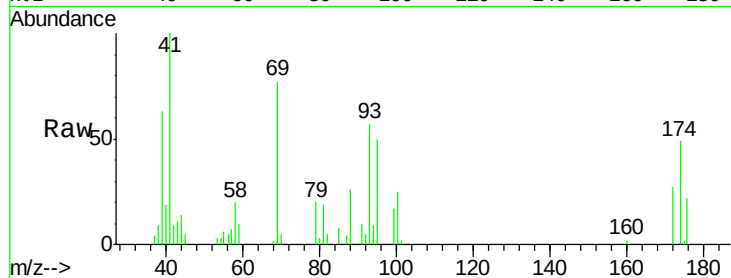
Tot Ion: 88 Resp: 1440

Ion Ratio Lower Upper

88 100

43 47.0 30.6 45.8#

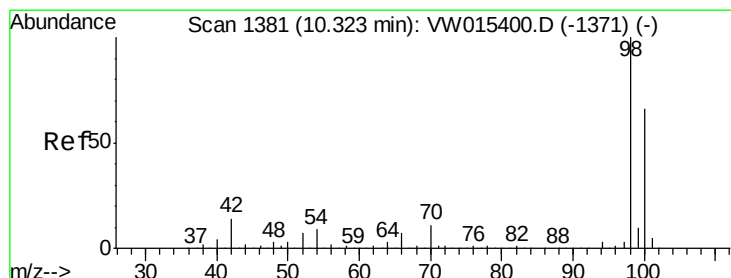
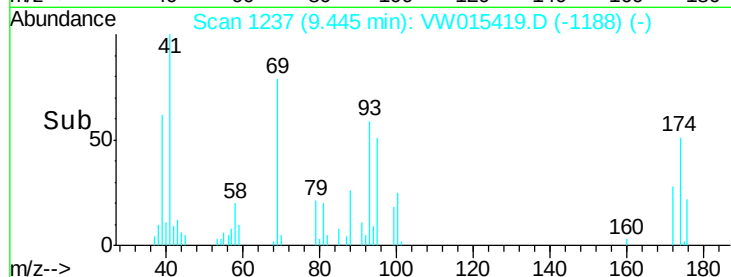
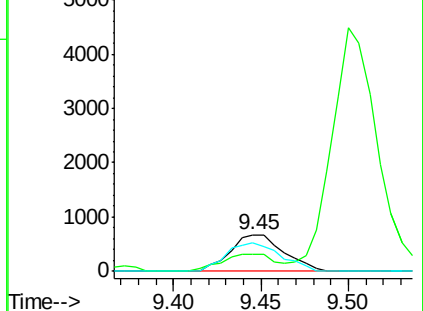
58 78.3 56.3 84.5



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 50.968 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW015419.D

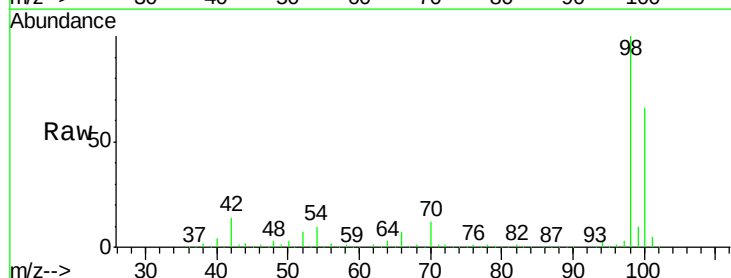
Acq: 07 May 2020 14:37

Tgt Ion: 98 Resp: 426663

Ion Ratio Lower Upper

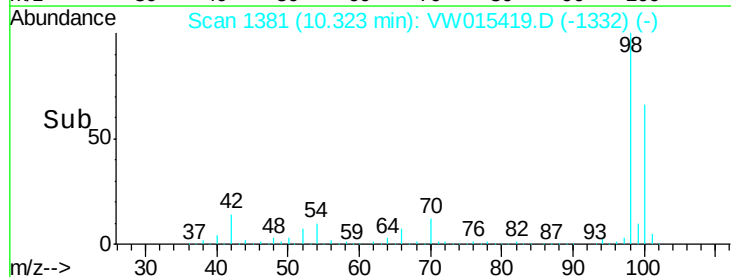
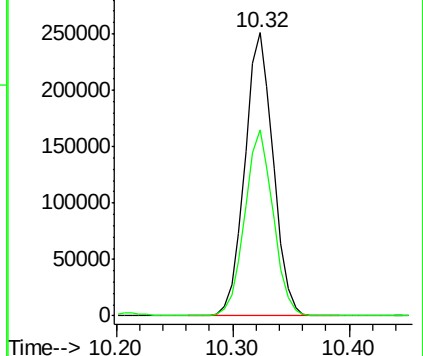
98 100

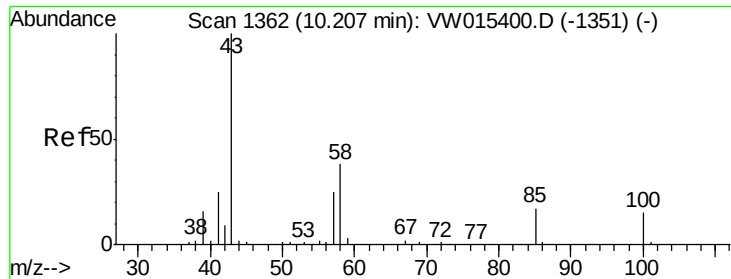
100 65.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

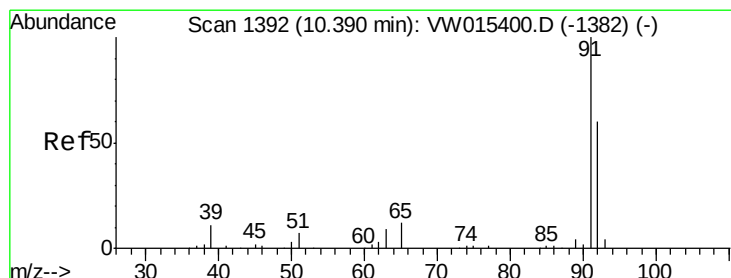
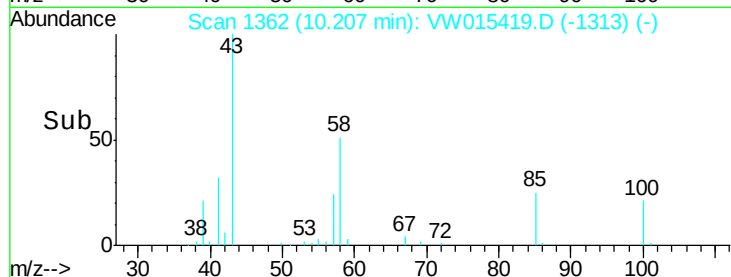
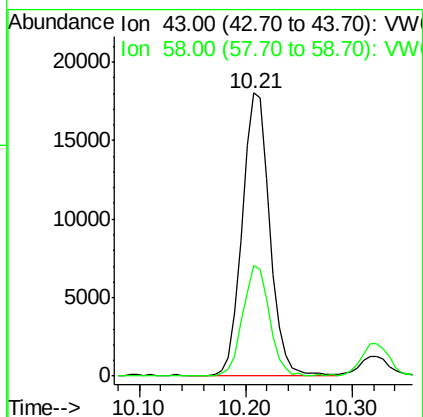
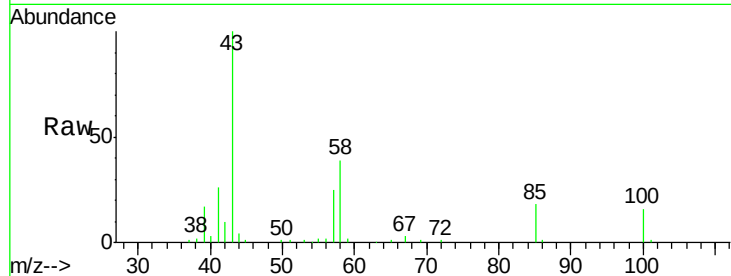




#51
4-Methyl-2-Pentanone
Concen: 24.896 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

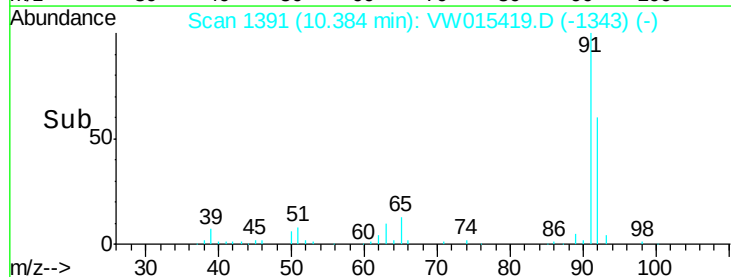
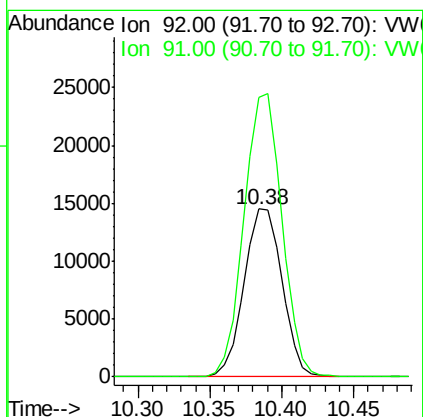
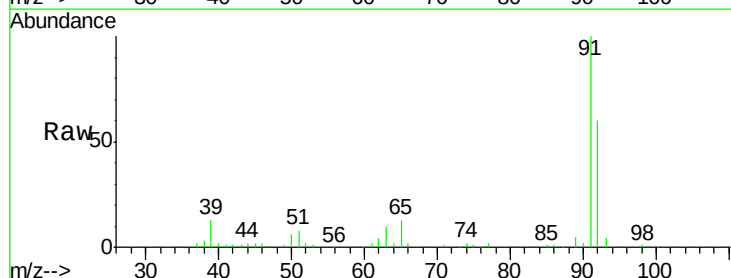
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

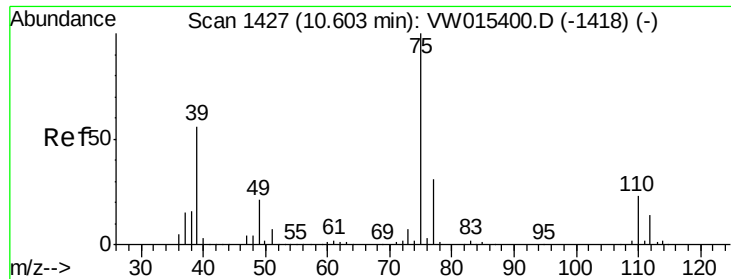
Tot Ion: 43 Resp: 32968
Ion Ratio Lower Upper
43 100
58 37.8 30.8 46.2



#52
Toluene
Concen: 4.326 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. -0.01 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 92 Resp: 26547
Ion Ratio Lower Upper
92 100
91 168.1 135.9 203.9

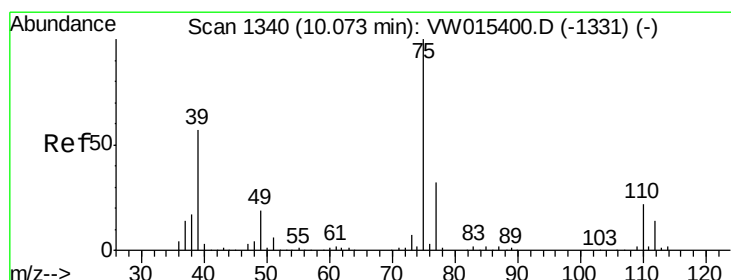
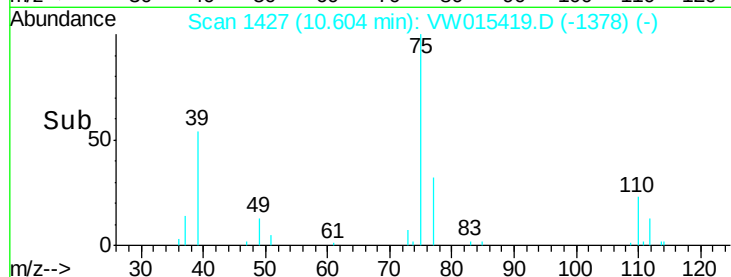
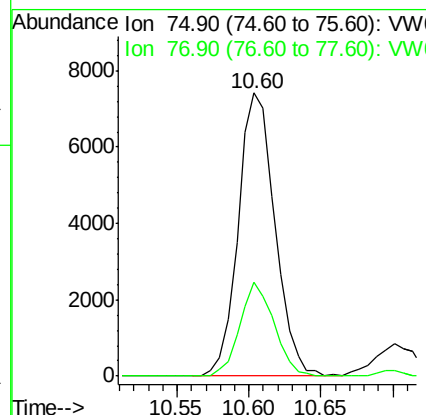
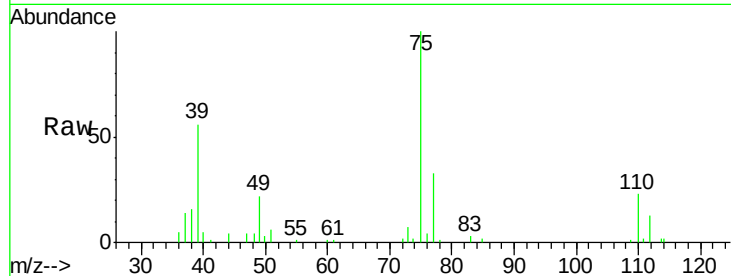




#53
 t-1,3-Dichloropropene
 Concen: 4.067 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

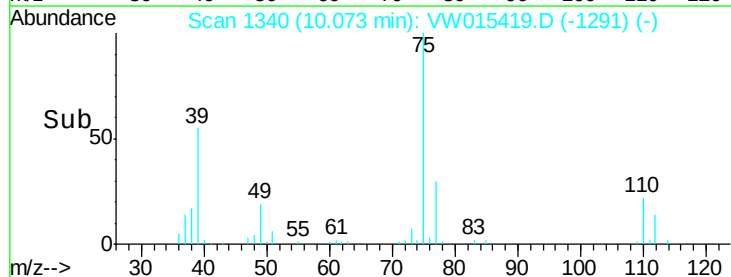
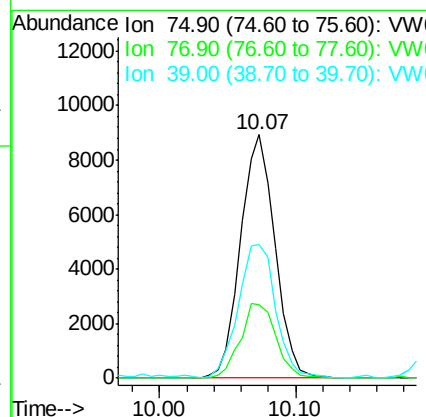
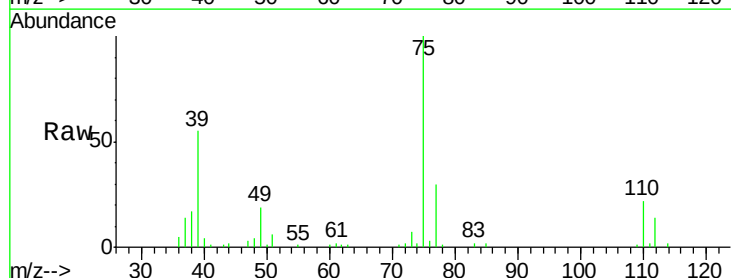
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

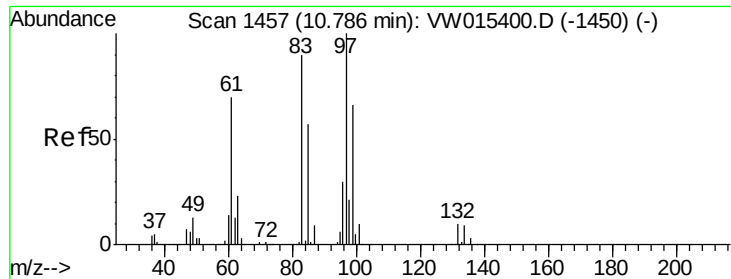
Tot Ion: 75 Resp: 13128
 Ion Ratio Lower Upper
 75 100
 77 33.4 24.9 37.3



#54
 cis-1,3-Dichloropropene
 Concen: 4.154 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 75 Resp: 15786
 Ion Ratio Lower Upper
 75 100
 77 30.1 25.6 38.4
 39 55.1 45.6 68.4





#55

1,1,2-Trichloroethane

Concen: 4.181 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

Tot Ion: 97 Resp: 6860

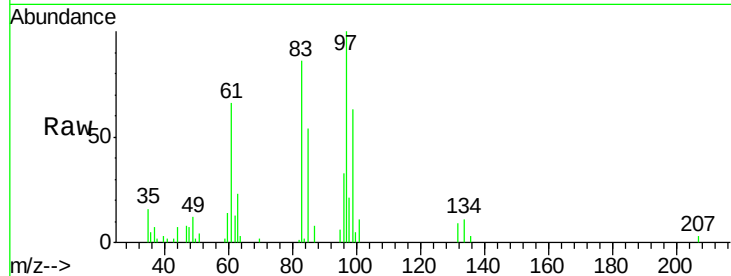
Ion Ratio Lower Upper

97 100

83 86.4 72.2 108.4

85 54.0 45.2 67.8

99 63.4 52.6 78.8

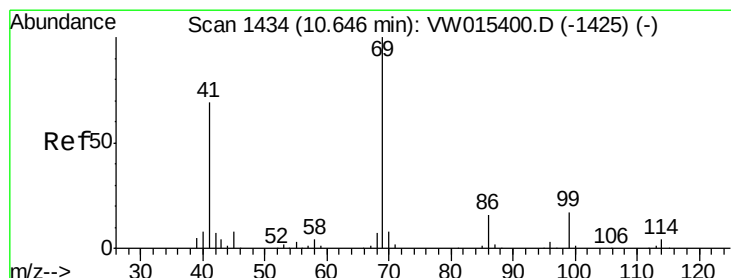
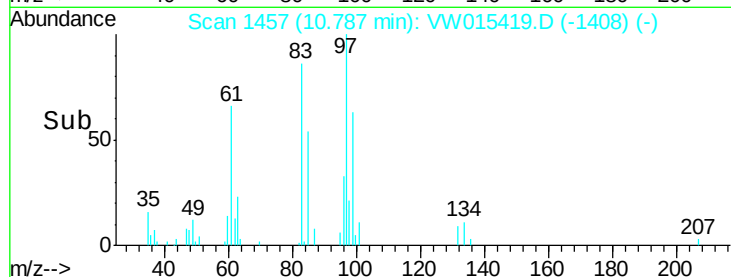
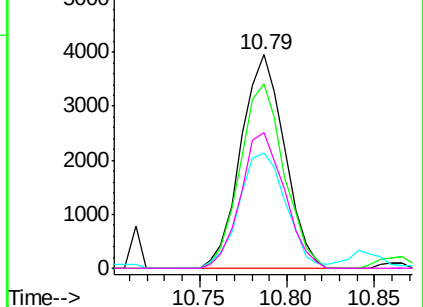


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 4.104 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

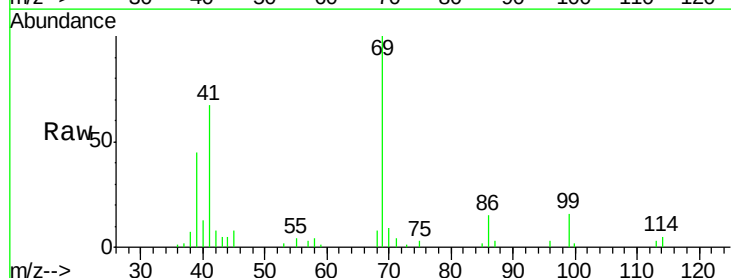
Tgt Ion: 69 Resp: 9251

Ion Ratio Lower Upper

69 100

41 73.2 55.3 82.9

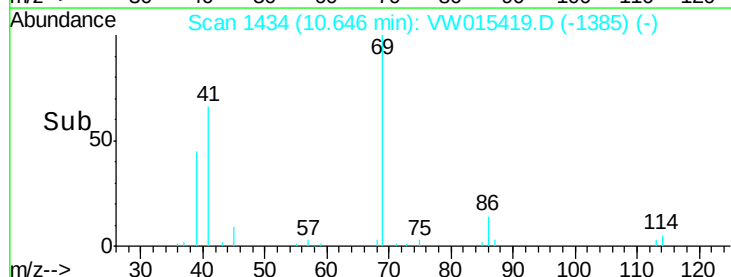
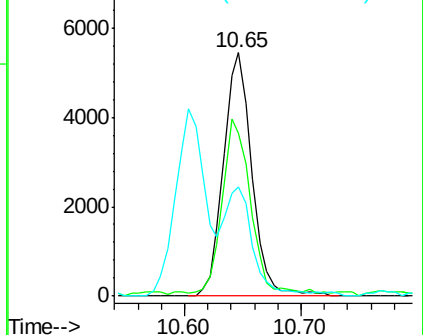
39 41.7 31.9 47.9

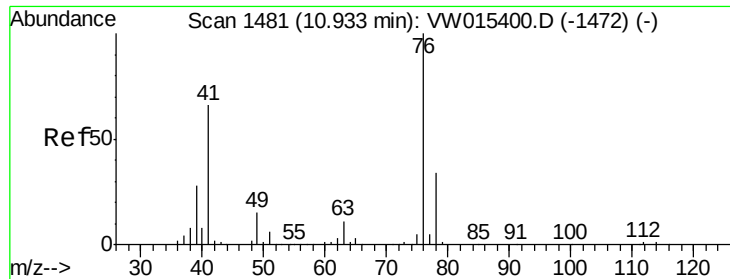


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

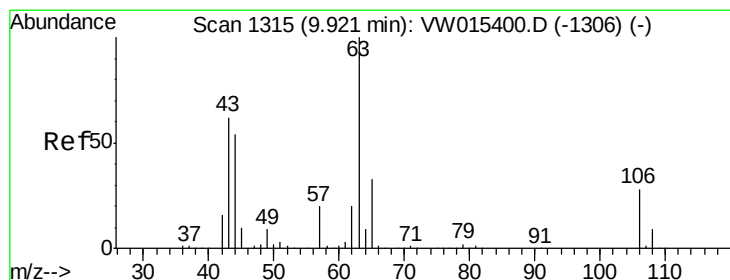
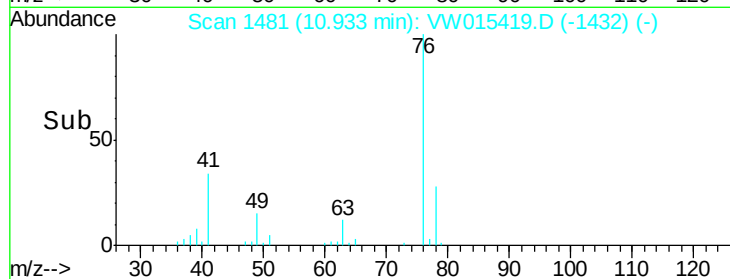
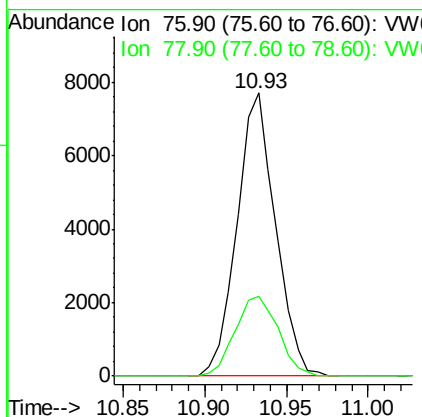
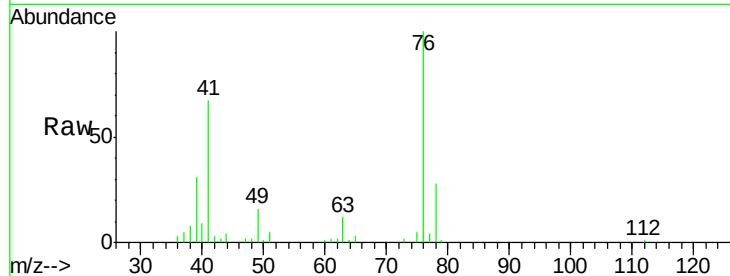




#57
 1,3-Dichloropropane
 Concen: 4.287 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

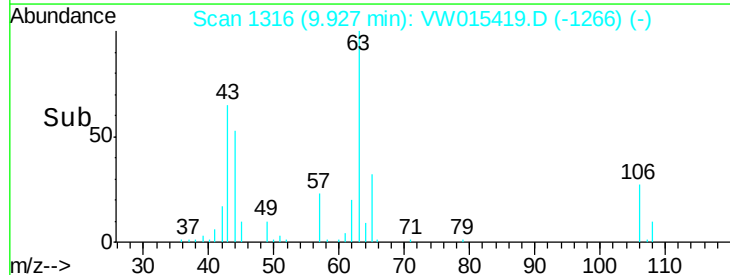
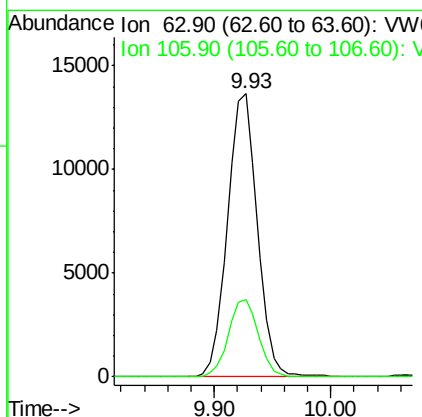
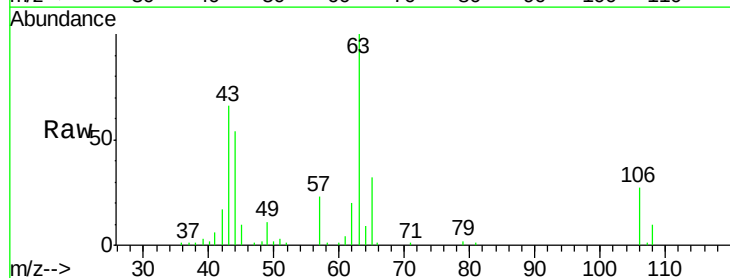
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

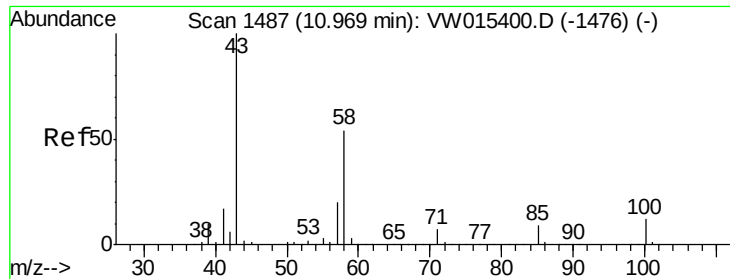
Tot Ion: 76 Resp: 12648
 Ion Ratio Lower Upper
 76 100
 78 31.5 26.3 39.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 22.219 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 63 Resp: 24369
 Ion Ratio Lower Upper
 63 100
 106 27.1 22.6 33.8





#59

2-Hexanone

Concen: 21.297 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

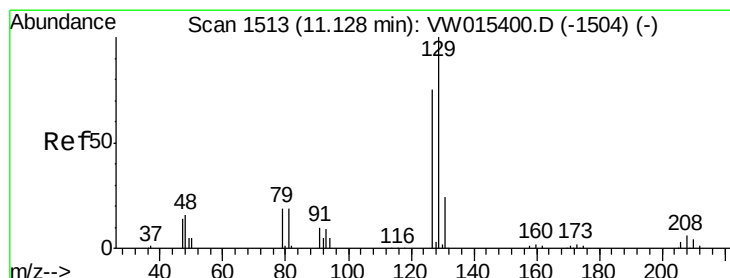
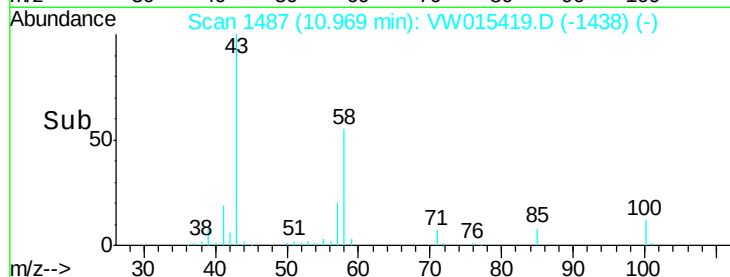
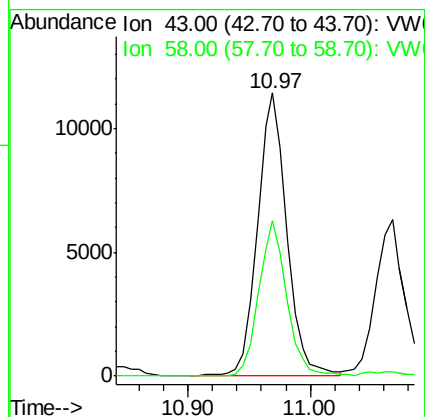
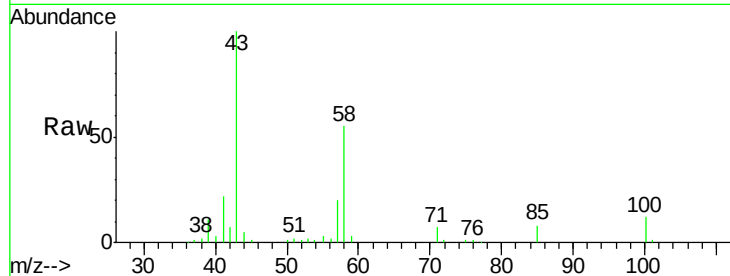
MDL-SOIL-03-QT2-2020DL

Tot Ion: 43 Resp: 19082

Ion Ratio Lower Upper

43 100

58 52.3 26.7 80.0



#60

Dibromochloromethane

Concen: 4.000 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW015419.D

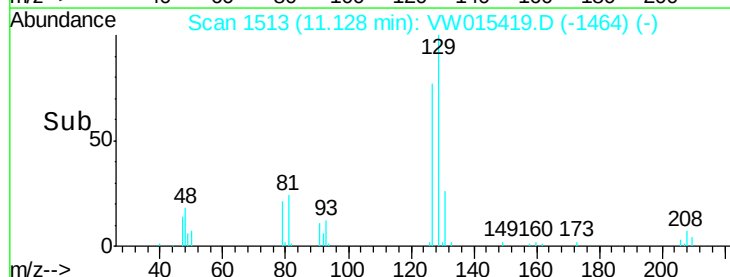
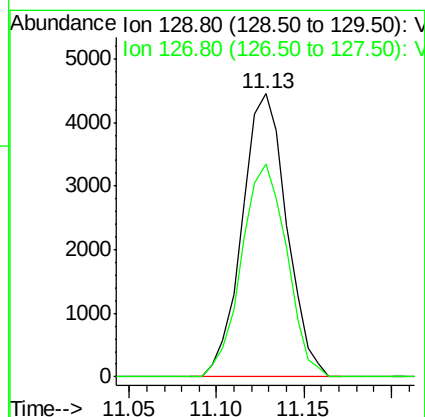
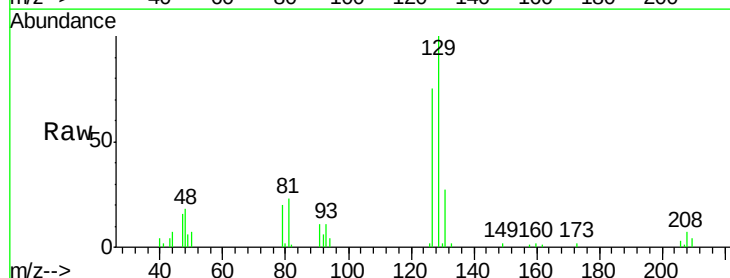
Acq: 07 May 2020 14:37

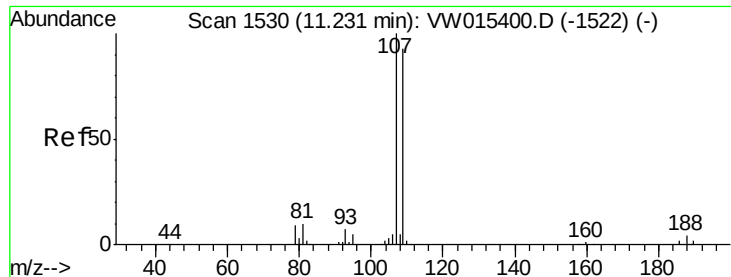
Tgt Ion: 129 Resp: 7894

Ion Ratio Lower Upper

129 100

127 76.2 39.1 117.2





#61

1,2-Dibromoethane

Concen: 4.320 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

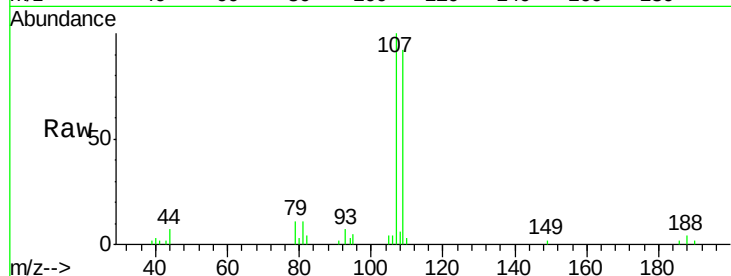
MDL-SOIL-03-QT2-2020DL

Tot Ion: 107 Resp: 6711

Ion Ratio Lower Upper

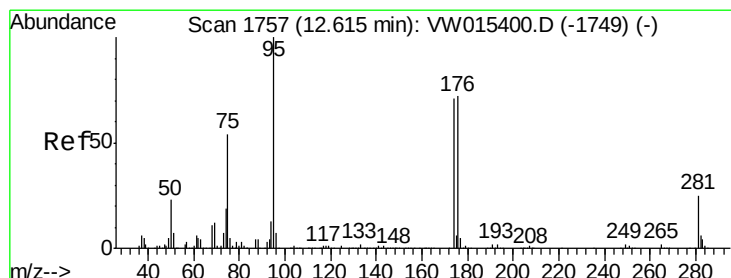
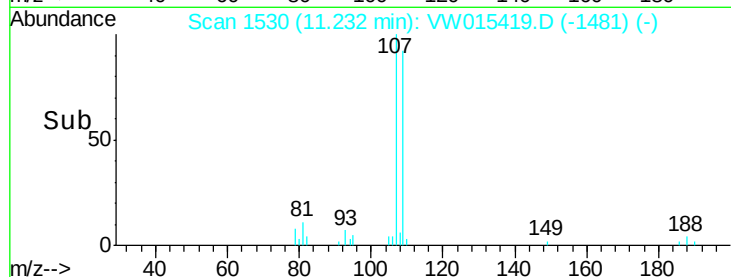
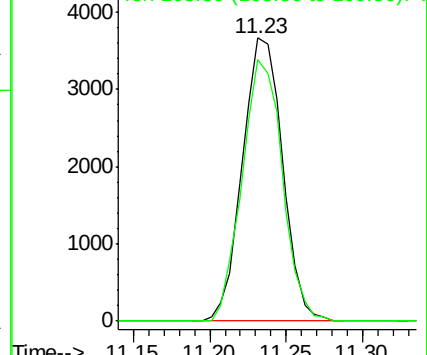
107 100

109 92.4 75.0 112.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.295 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

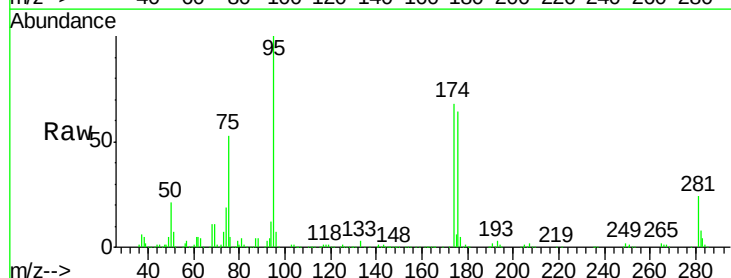
Tgt Ion: 95 Resp: 155469

Ion Ratio Lower Upper

95 100

174 72.4 0.0 147.6

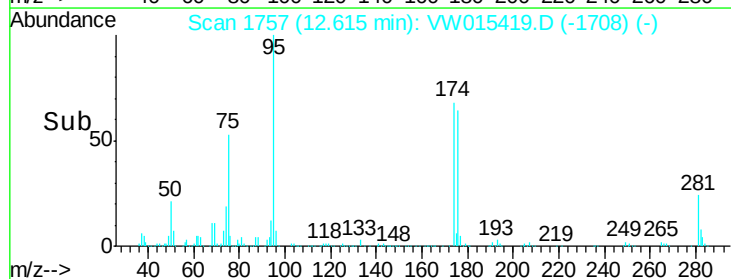
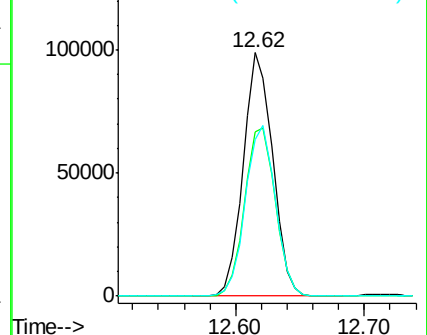
176 71.3 0.0 144.4

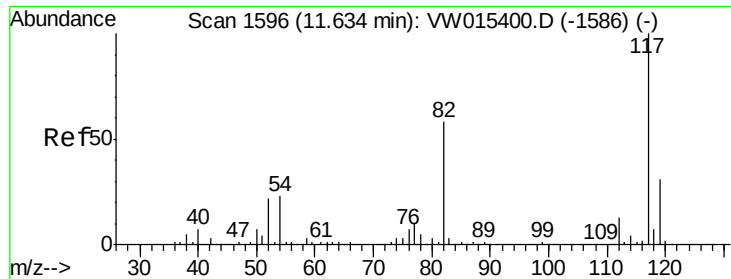


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

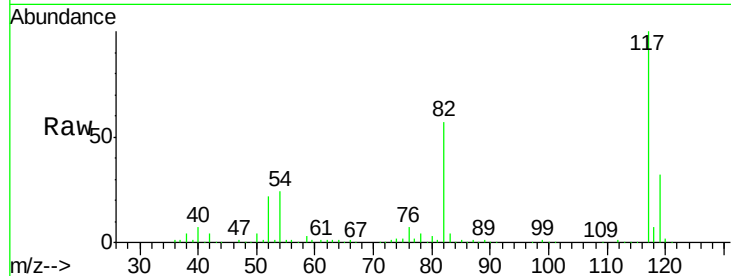




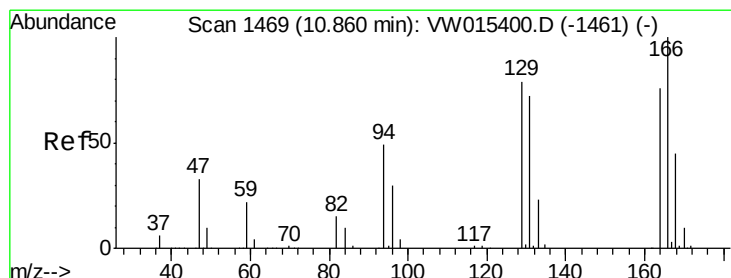
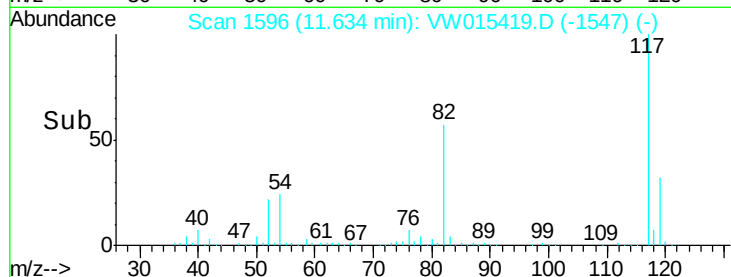
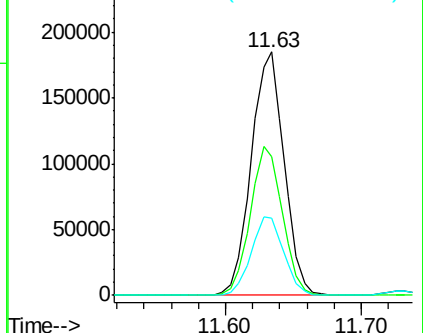
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

Tot Ion:117 Resp: 313352
Ion Ratio Lower Upper
117 100
82 56.8 46.4 69.6
119 31.7 24.6 37.0



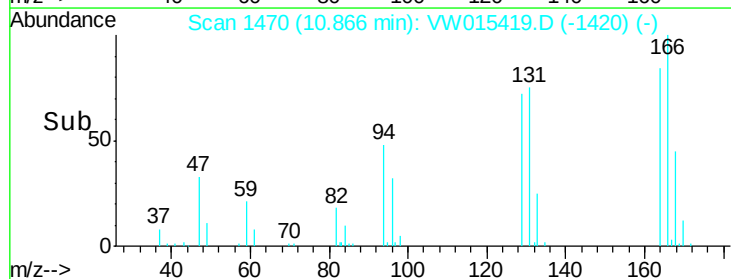
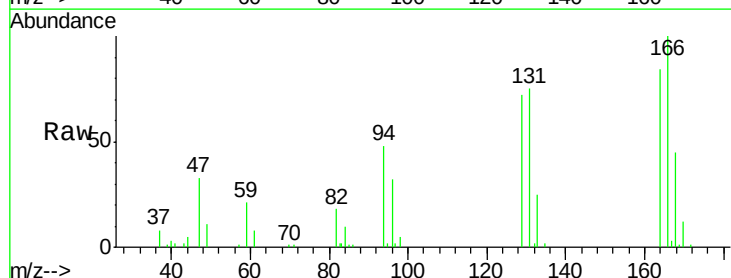
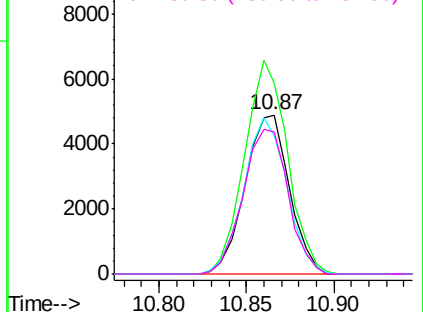
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

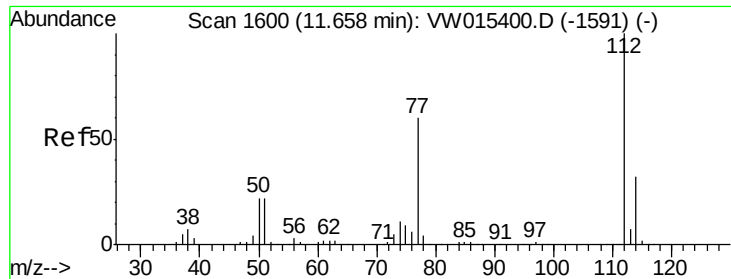


#64
Tetrachloroethene
Concen: 4.527 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion:164 Resp: 8671
Ion Ratio Lower Upper
164 100
166 119.6 104.9 157.3
129 86.5 82.7 124.1
131 89.1 75.5 113.3

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 4.364 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

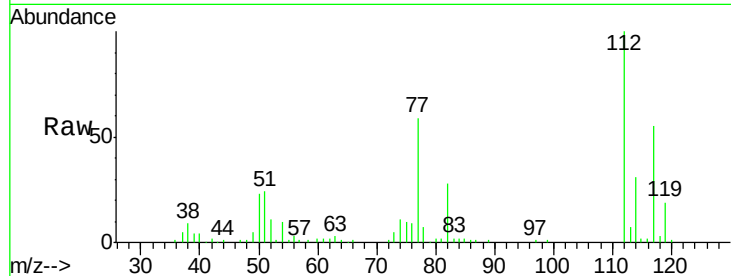
MDL-SOIL-03-QT2-2020DL

Tot Ion:112 Resp: 26961

Ion Ratio Lower Upper

112 100

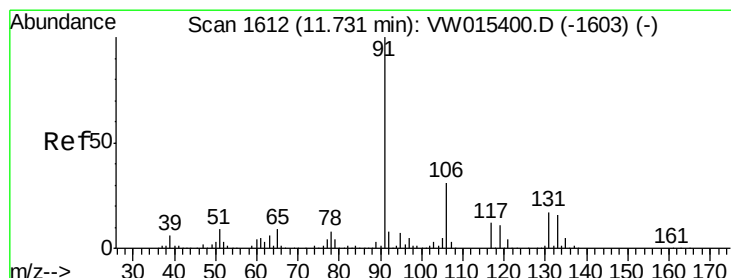
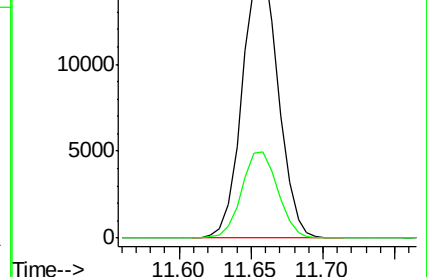
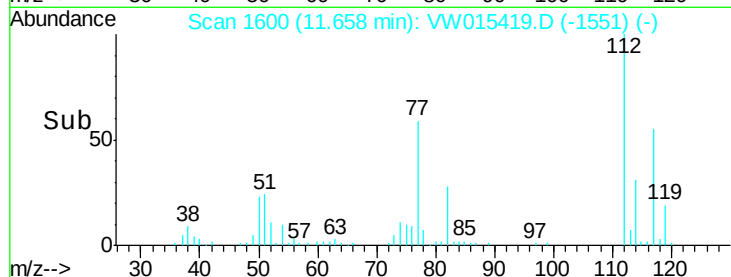
114 30.6 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.66



#66

1,1,1,2-Tetrachloroethane

Concen: 4.258 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

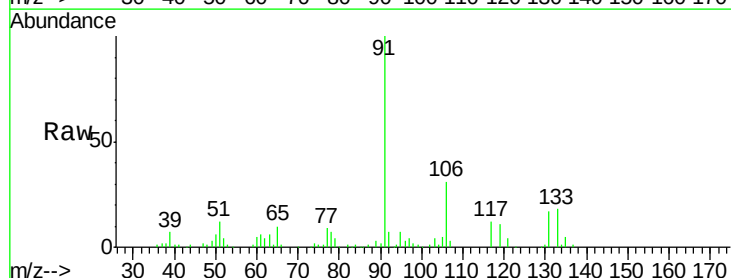
Tgt Ion:131 Resp: 9327

Ion Ratio Lower Upper

131 100

133 98.0 47.9 143.8

119 63.7 33.0 99.0

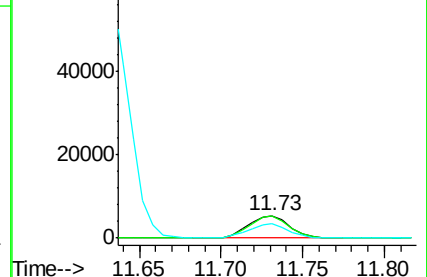
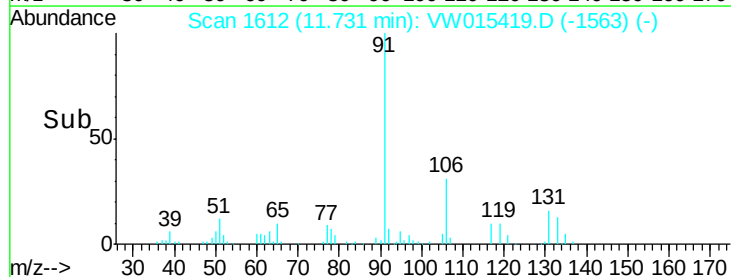


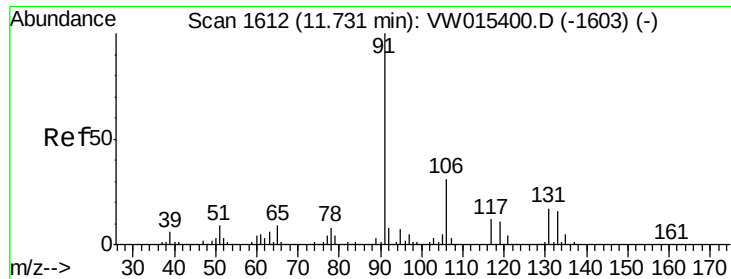
Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.73

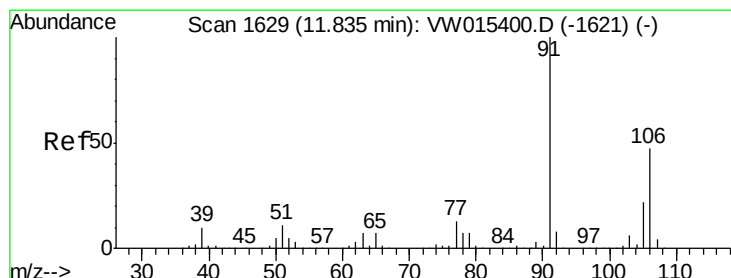
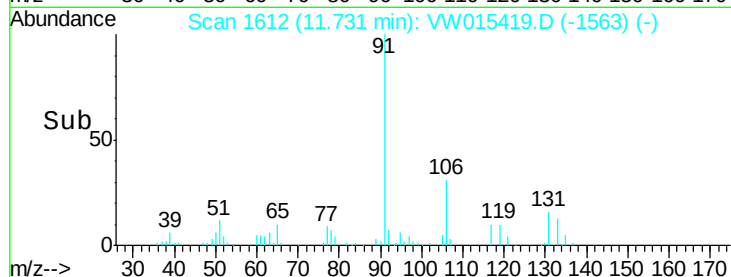
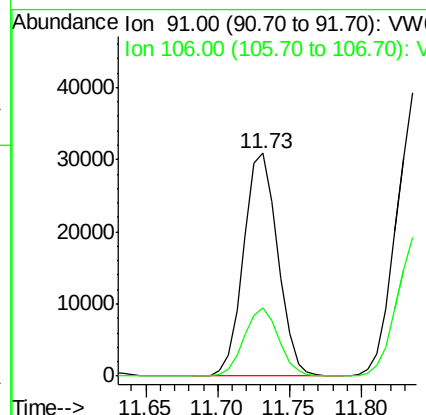
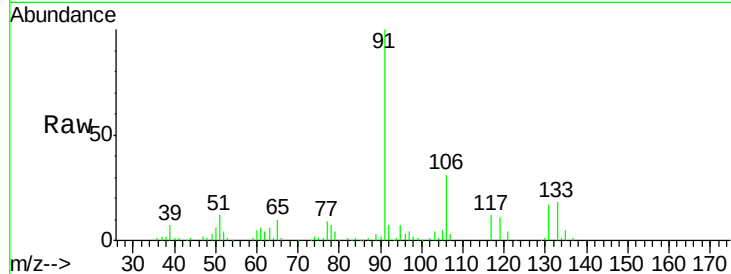




#67
Ethyl Benzene
Concen: 4.298 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

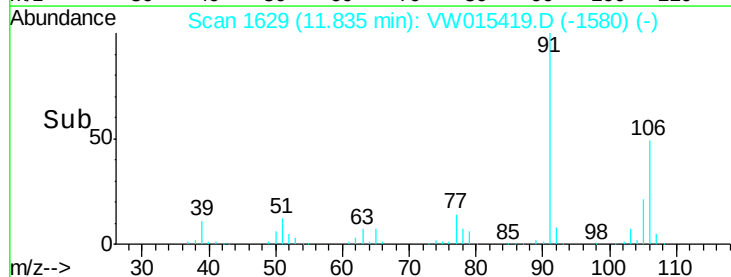
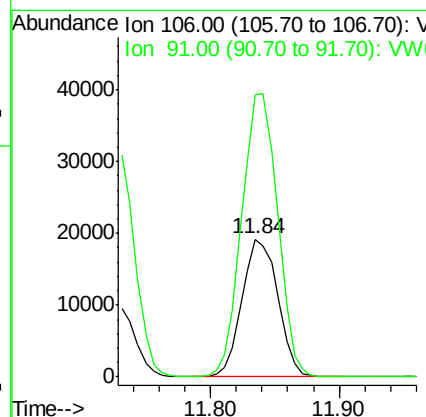
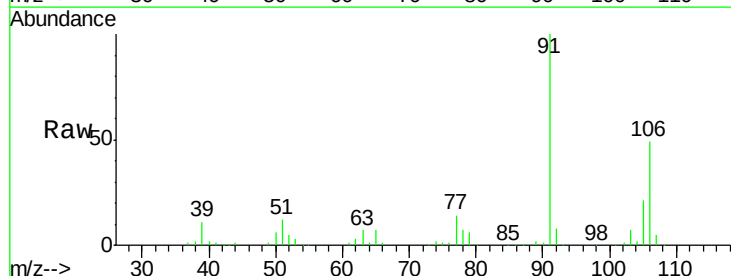
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

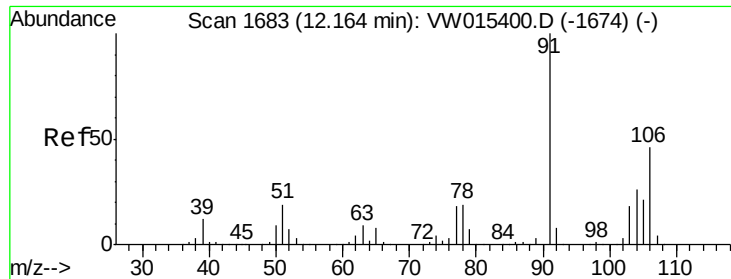
Tot Ion: 91 Resp: 50827
Ion Ratio Lower Upper
91 100
106 30.8 25.2 37.8



#68
m/p-Xylenes
Concen: 8.413 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion: 106 Resp: 36990
Ion Ratio Lower Upper
106 100
91 206.6 165.7 248.5

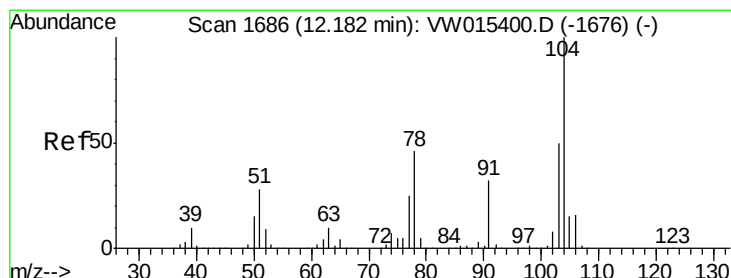
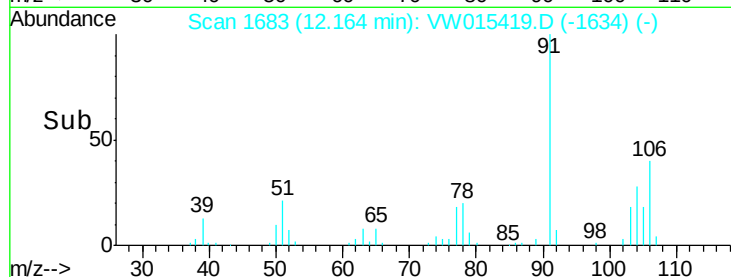
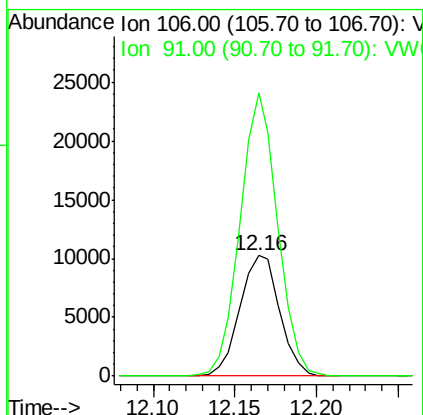
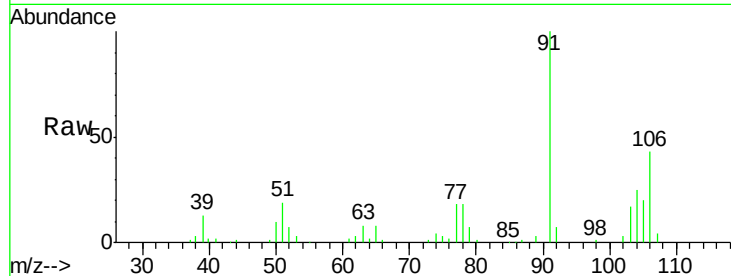




#69
o-Xylene
Concen: 4.216 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

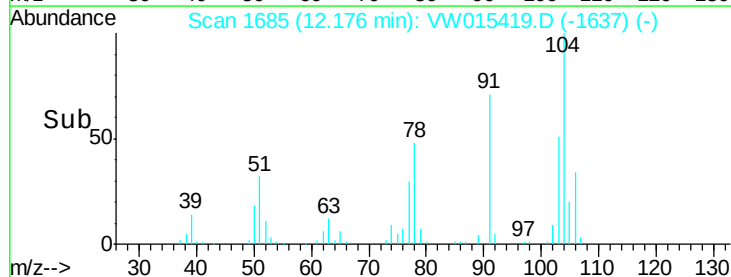
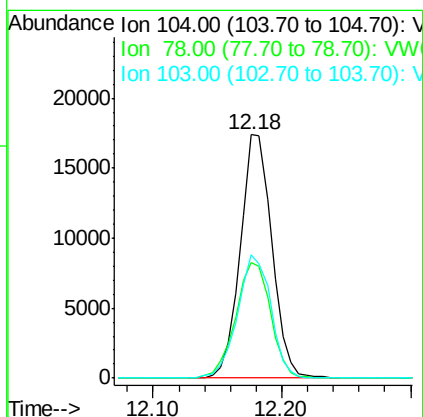
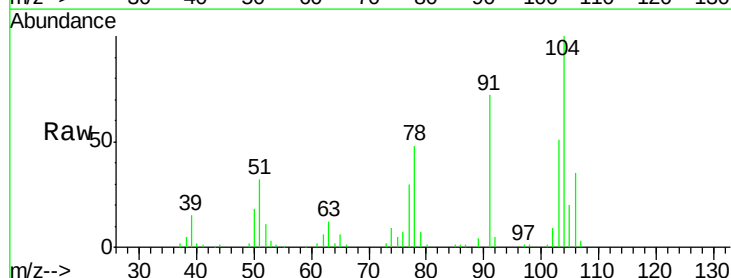
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT2-2020DL

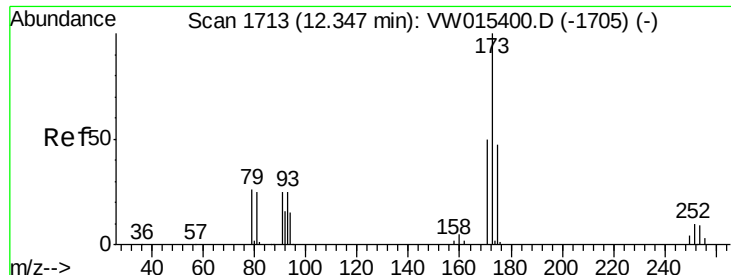
Tot Ion:106 Resp: 17417
Ion Ratio Lower Upper
106 100
91 220.3 109.0 327.0



#70
Styrene
Concen: 4.138 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VW015419.D
Acq: 07 May 2020 14:37

Tgt Ion:104 Resp: 29444
Ion Ratio Lower Upper
104 100
78 52.9 41.8 62.8
103 53.4 43.6 65.4





#71

Bromoform

Concen: 3.922 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

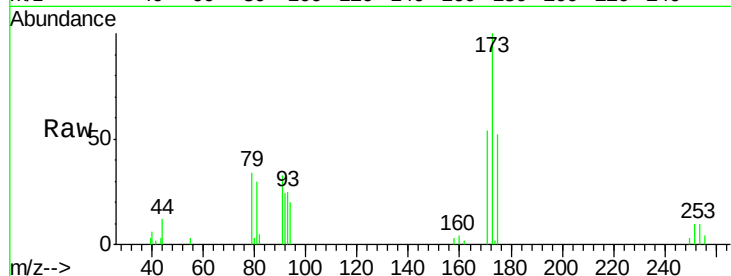
Tot Ion:173 Resp: 4190

Ion Ratio Lower Upper

173 100

175 47.0 23.8 71.4

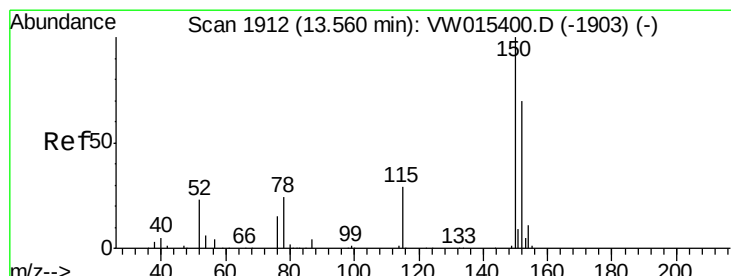
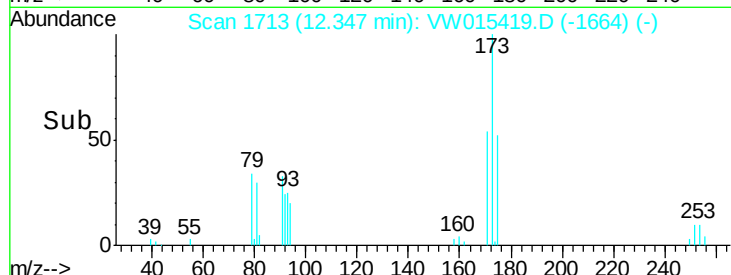
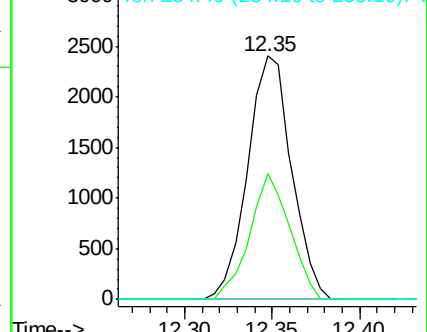
254 0.0 0.0 0.0



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: VW015419.D

Acq: 07 May 2020 14:37

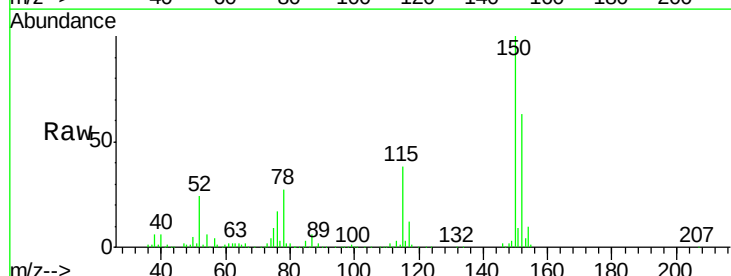
Tgt Ion:152 Resp: 149349

Ion Ratio Lower Upper

152 100

115 62.0 30.3 90.8

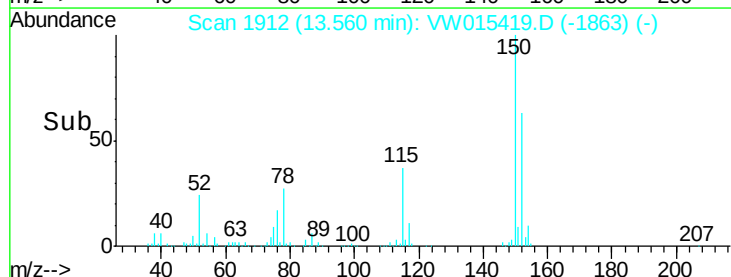
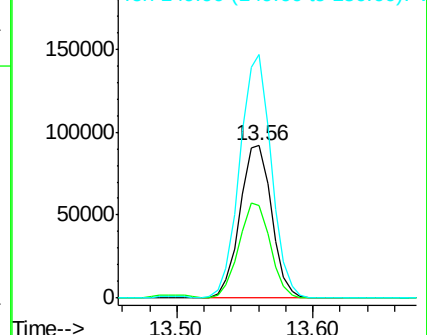
150 158.9 0.0 344.4

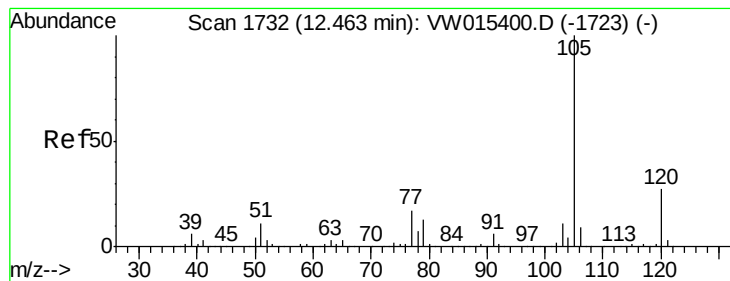


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 4.409 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

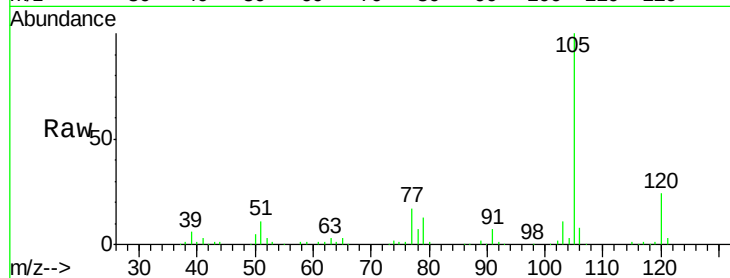
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 49159

Ion Ratio Lower Upper

105 100

120 25.2 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

30000

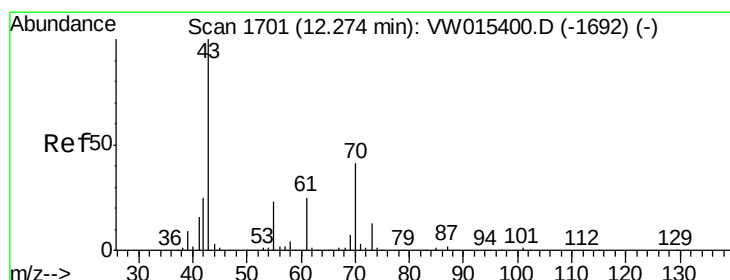
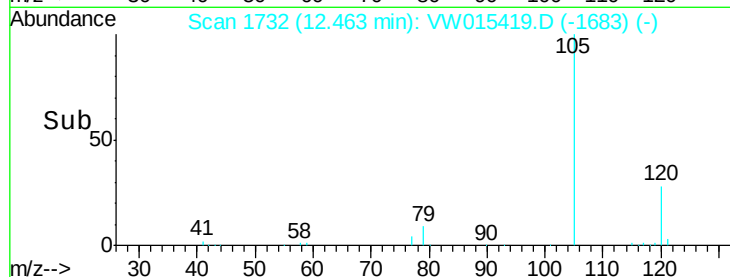
20000

10000

0

Time-->

12.40 12.45 12.50 12.55



#74

N-amyl acetate

Concen: 4.501 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Tgt Ion: 43 Resp: 11862

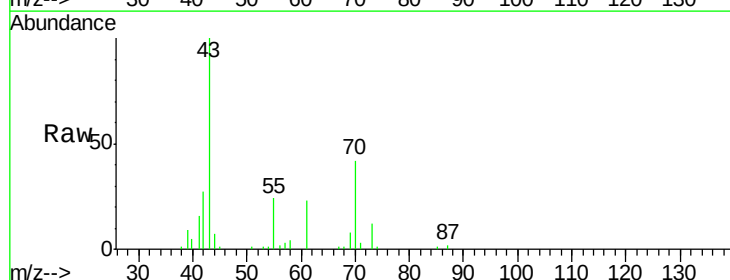
Ion Ratio Lower Upper

43 100

70 39.7 33.4 50.0

55 23.5 18.9 28.3

61 21.3 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

12.27

10000

8000

6000

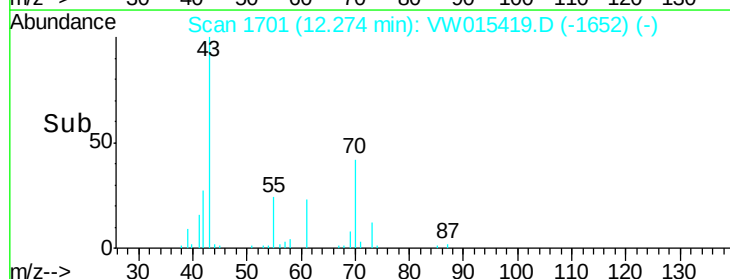
4000

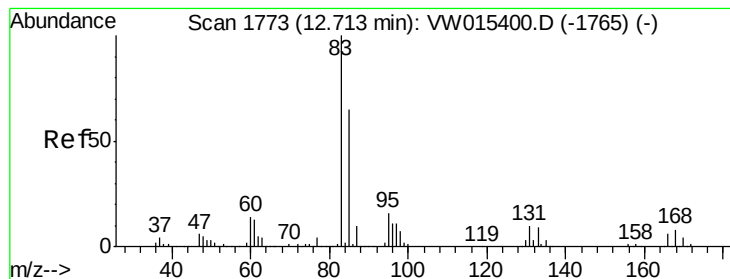
2000

0

Time-->

12.20 12.30 12.40





#75

1,1,2,2-Tetrachloroethane

Concen: 4.458 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

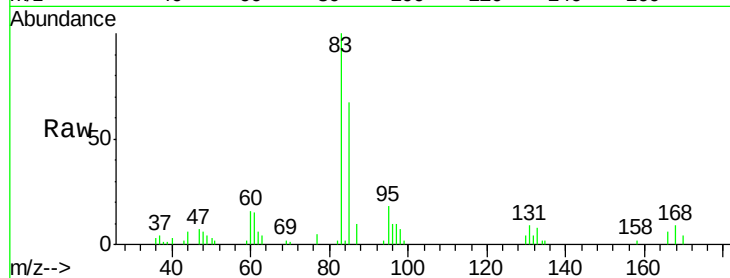
Tot Ion: 83 Resp: 7776

Ion Ratio Lower Upper

83 100

131 9.7 5.1 15.2

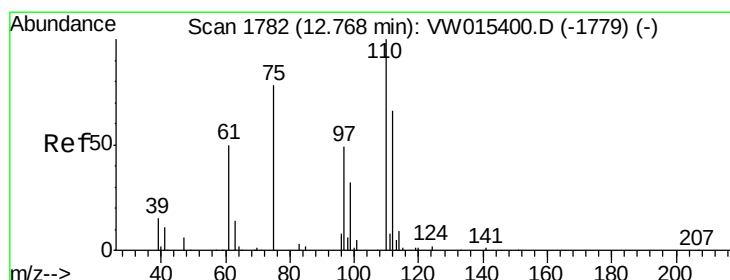
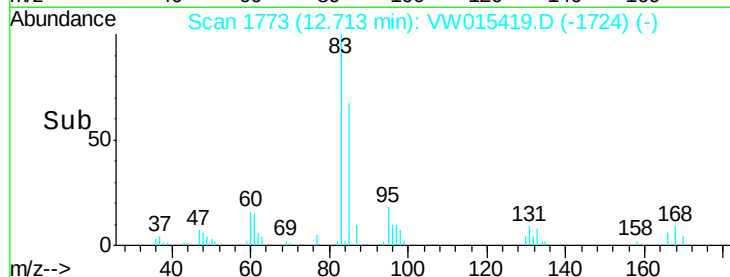
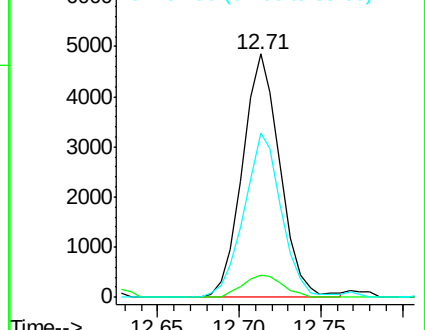
85 66.7 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 3.300 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015419.D

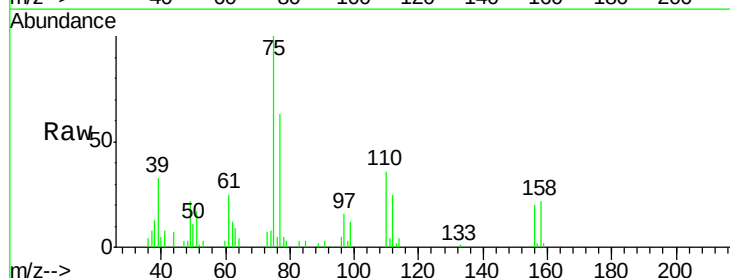
Acq: 07 May 2020 14:37

Tgt Ion: 75 Resp: 4055

Ion Ratio Lower Upper

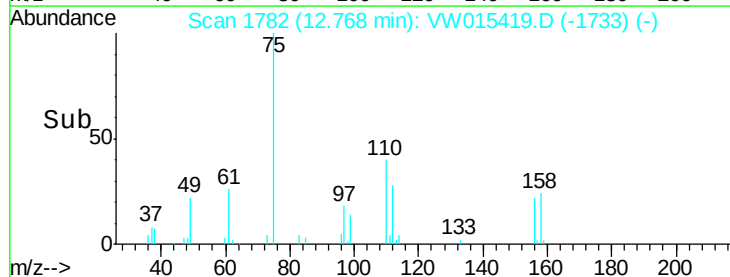
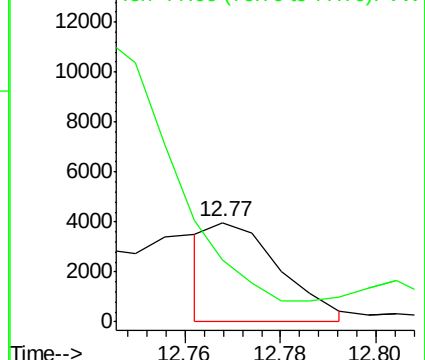
75 100

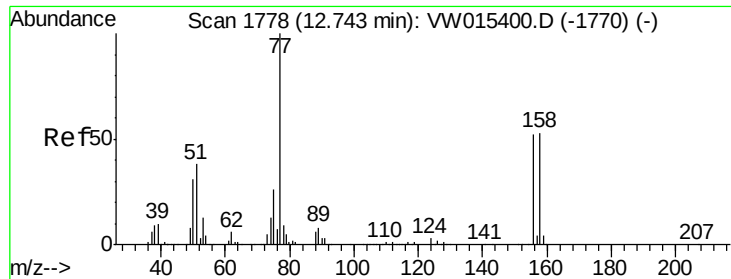
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 4.377 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

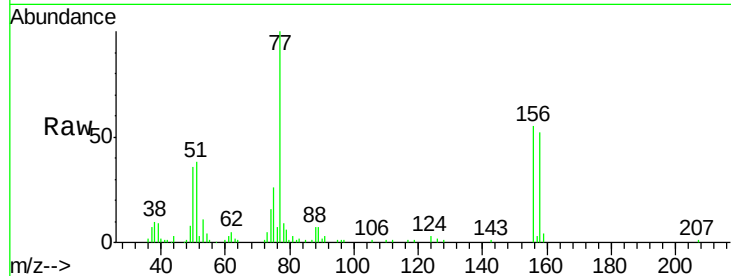
Tot Ion:156 Resp: 10343

Ion Ratio Lower Upper

156 100

77 204.7 101.8 305.6

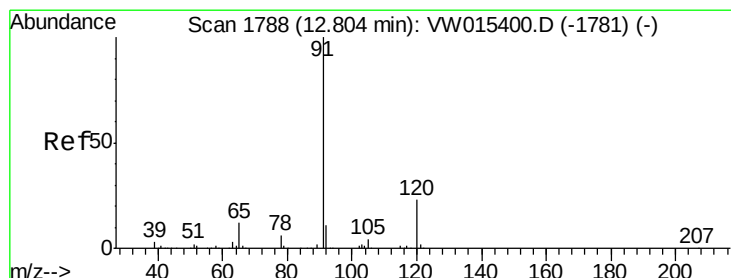
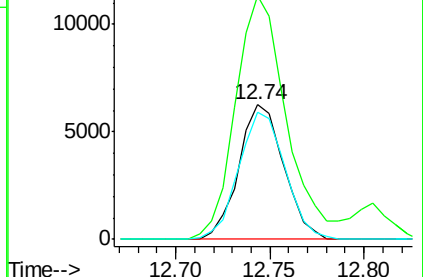
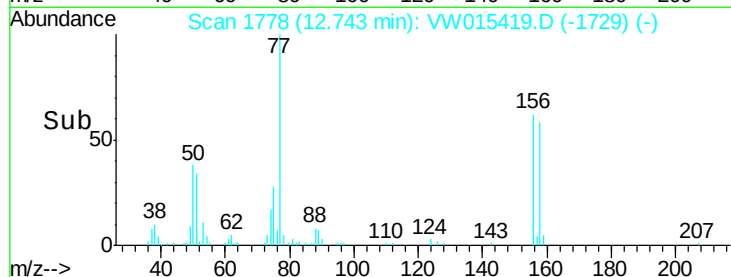
158 98.1 48.3 144.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.374 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW015419.D

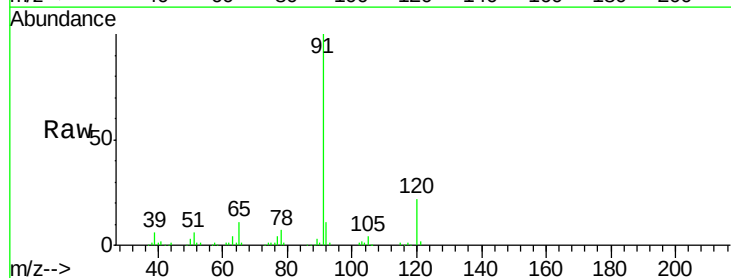
Acq: 07 May 2020 14:37

Tgt Ion: 91 Resp: 58514

Ion Ratio Lower Upper

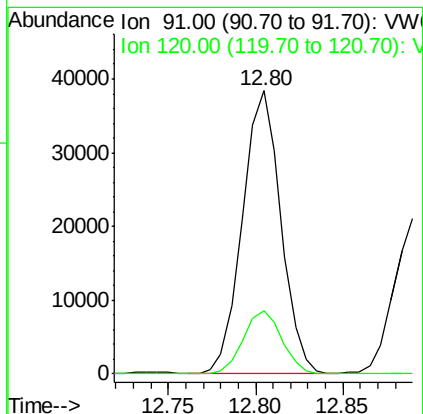
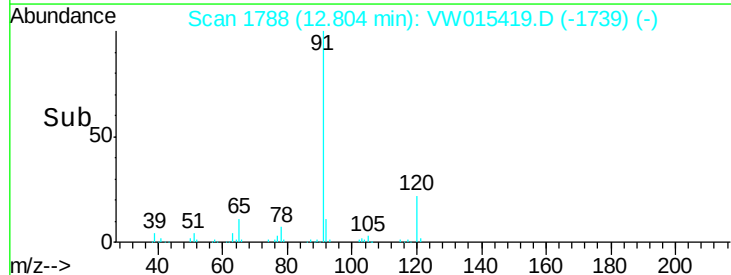
91 100

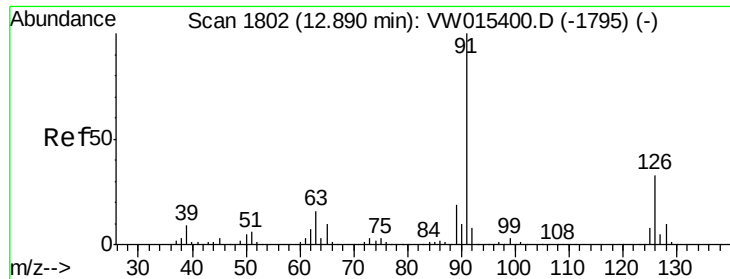
120 22.4 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.417 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

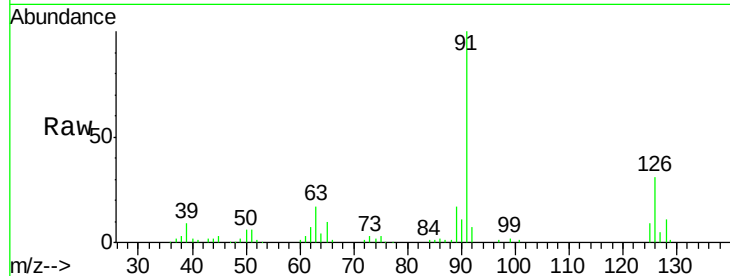
MDL-SOIL-03-QT2-2020DL

Tot Ion: 91 Resp: 33307

Ion Ratio Lower Upper

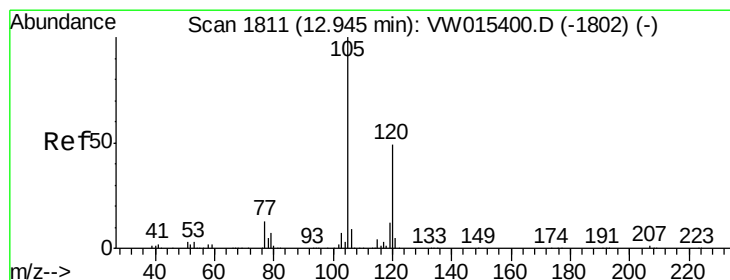
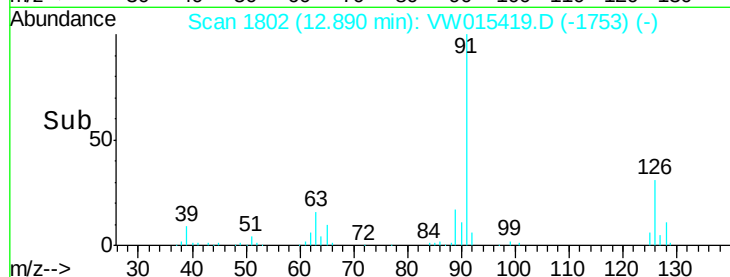
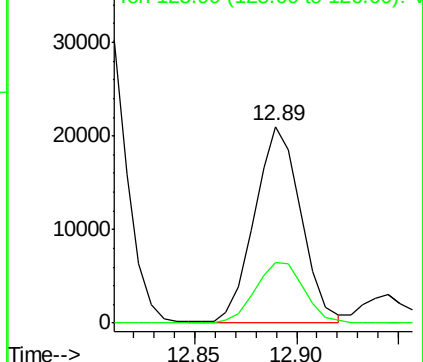
91 100

126 32.5 16.1 48.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 4.289 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW015419.D

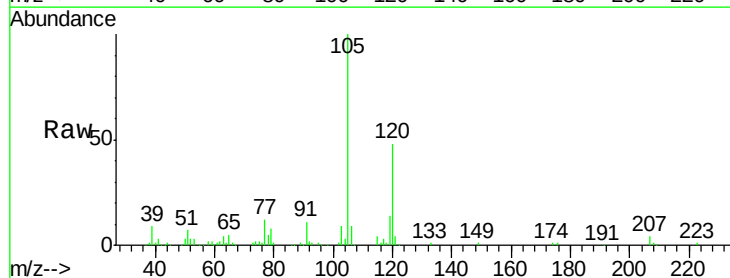
Acq: 07 May 2020 14:37

Tgt Ion:105 Resp: 40277

Ion Ratio Lower Upper

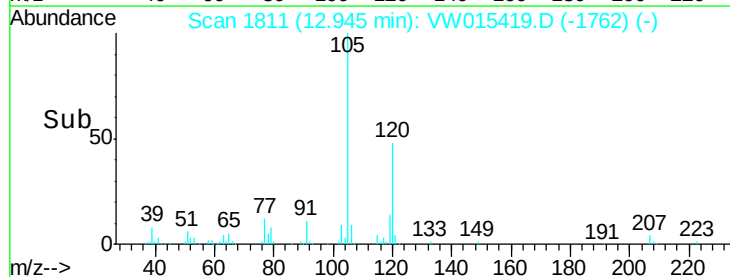
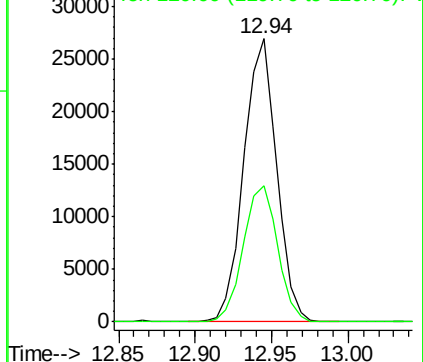
105 100

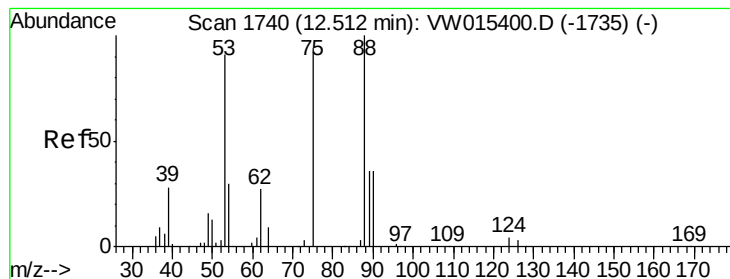
120 50.1 24.2 72.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3.790 ug/l m

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

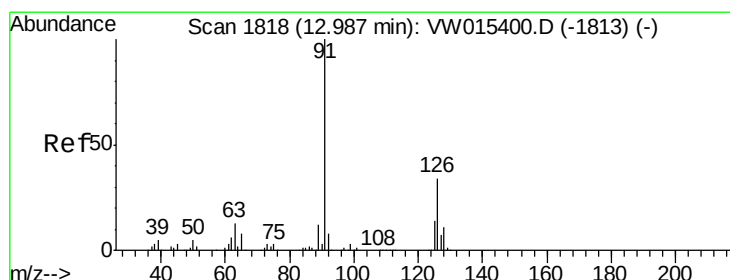
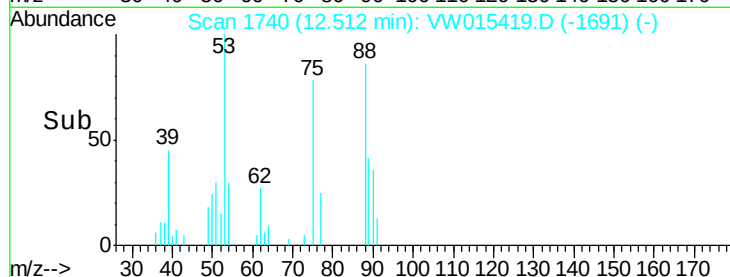
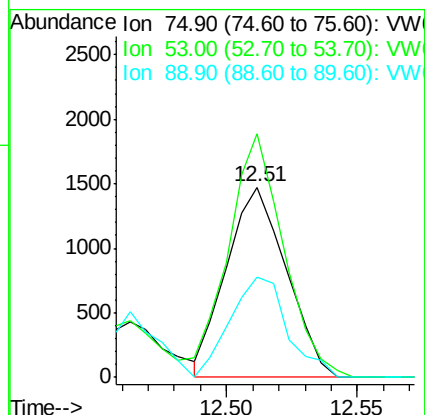
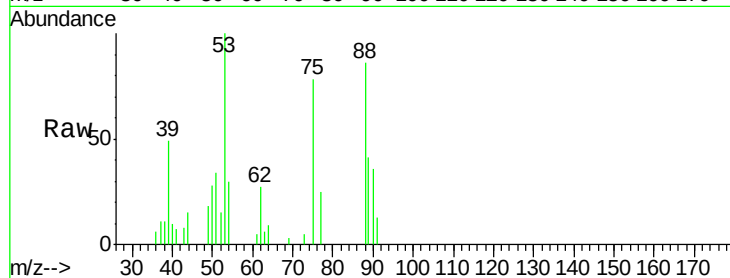
Tot Ion: 75 Resp: 2354

Ion Ratio Lower Upper

75 100

53 0.0 82.5 123.7#

89 13.5 35.8 53.8#



#82

4-Chlorotoluene

Concen: 4.385 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW015419.D

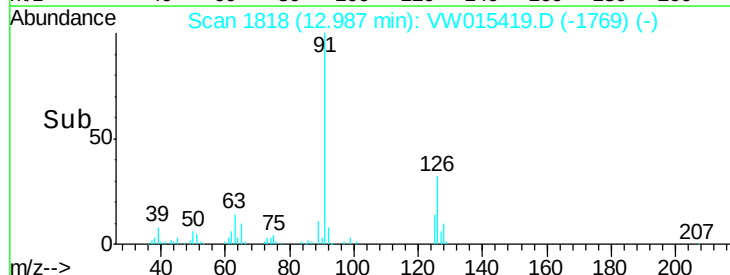
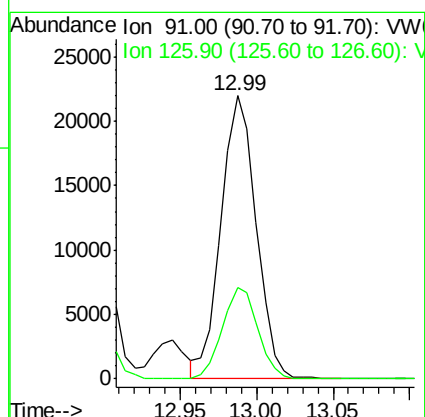
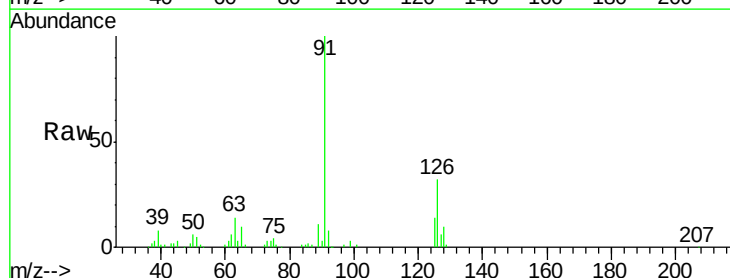
Acq: 07 May 2020 14:37

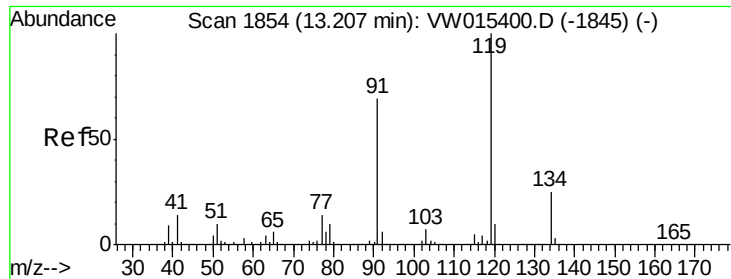
Tgt Ion: 91 Resp: 35044

Ion Ratio Lower Upper

91 100

126 32.8 16.0 47.9

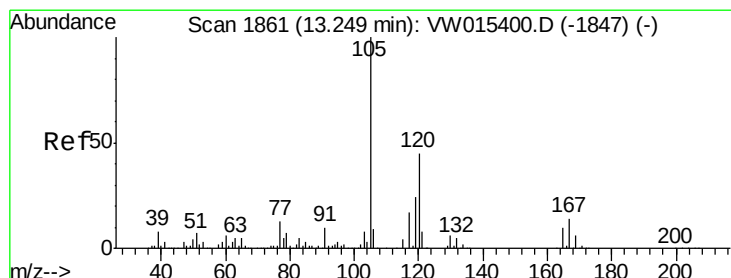
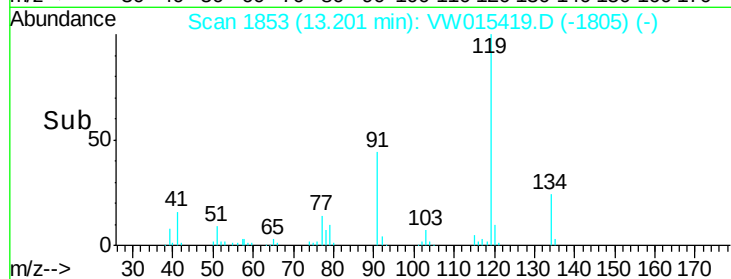
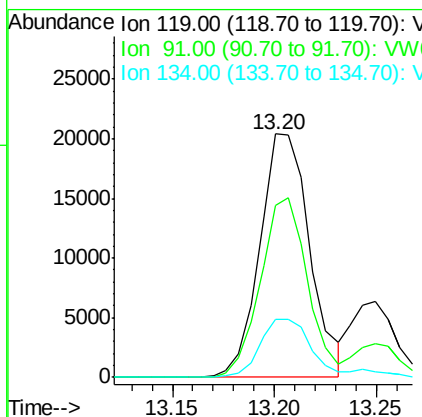
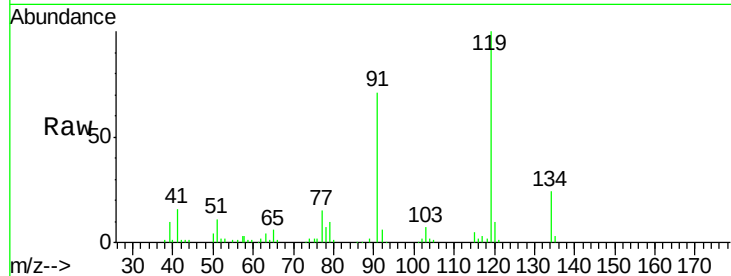




#83
 tert-Butylbenzene
 Concen: 4.354 ug/l
 RT: 13.20 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

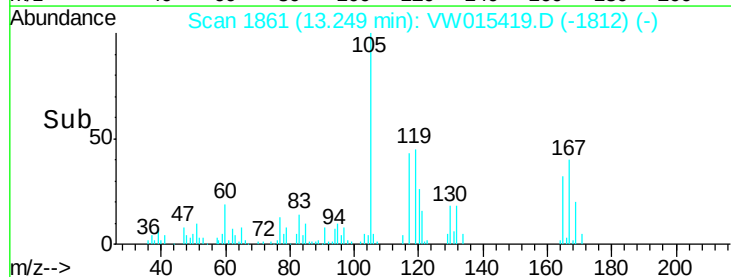
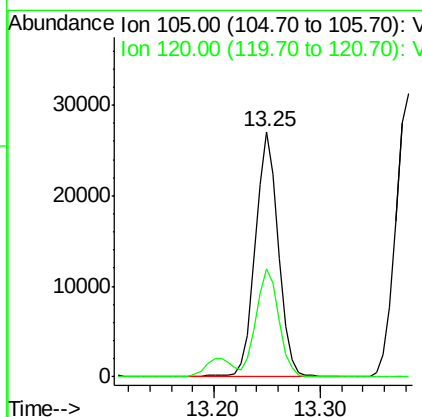
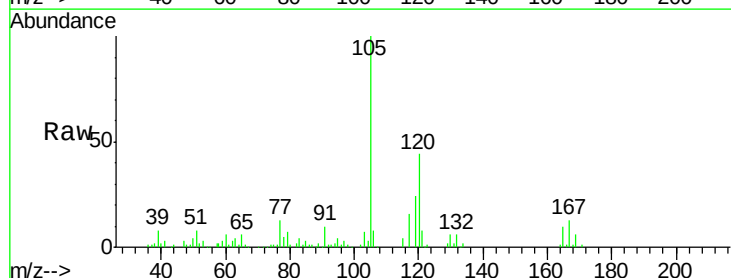
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

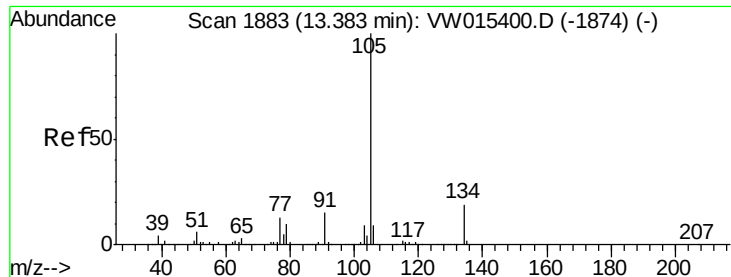
Tot Ion:119 Resp: 34893
 Ion Ratio Lower Upper
 119 100
 91 69.3 33.8 101.4
 134 24.3 12.3 36.9



#84
 1,2,4-Trimethylbenzene
 Concen: 4.371 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion:105 Resp: 41065
 Ion Ratio Lower Upper
 105 100
 120 43.2 22.0 66.0





#85

sec-Butylbenzene

Concen: 4.384 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

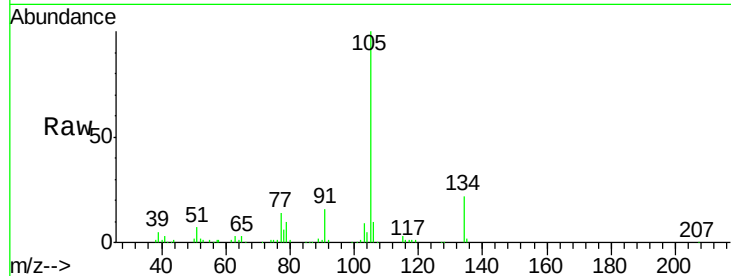
MDL-SOIL-03-QT2-2020DL

Tot Ion:105 Resp: 49506

Ion Ratio Lower Upper

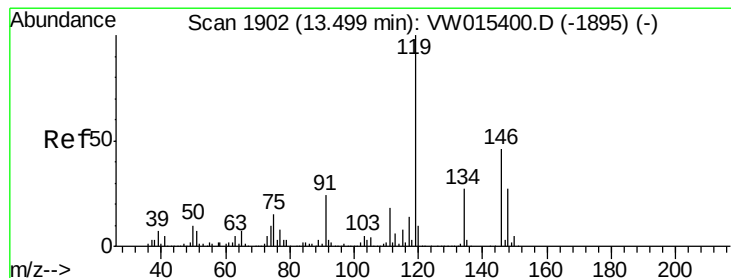
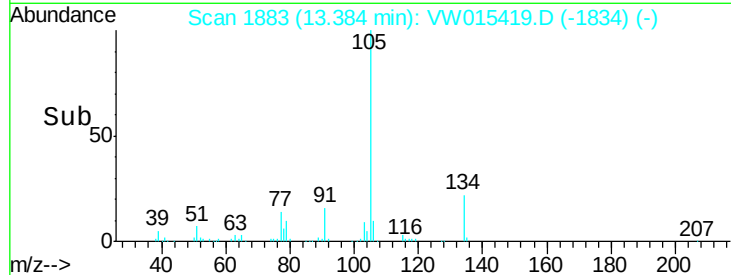
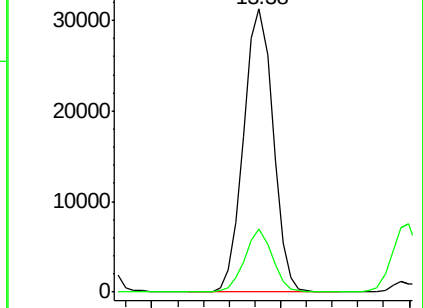
105 100

134 20.7 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.304 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

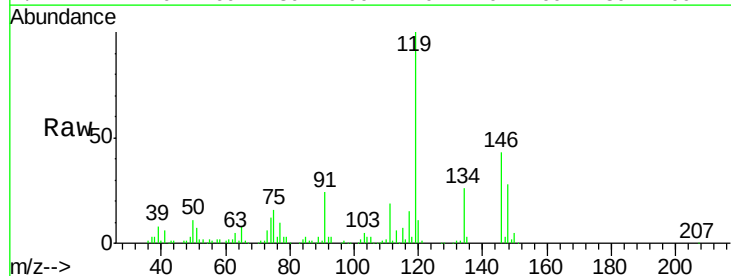
Tgt Ion:119 Resp: 44328

Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

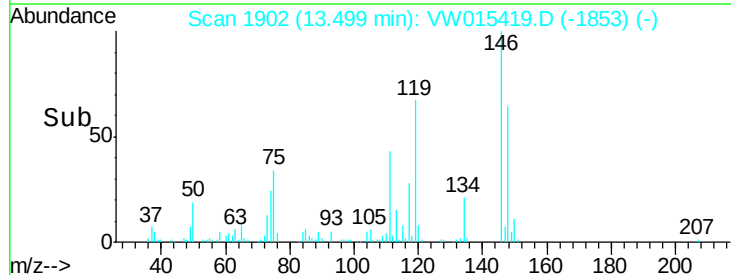
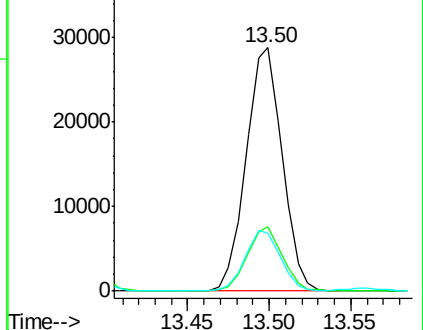
91 24.5 12.1 36.3

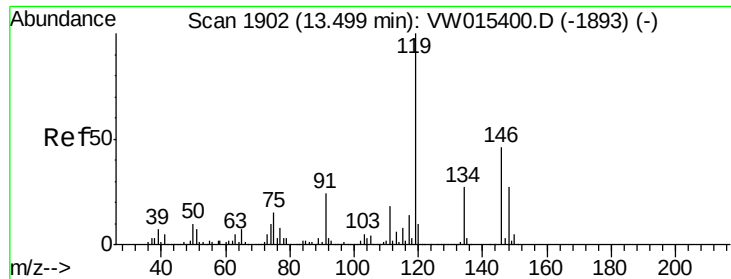


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

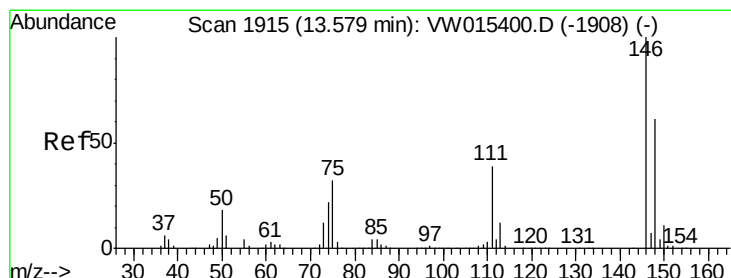
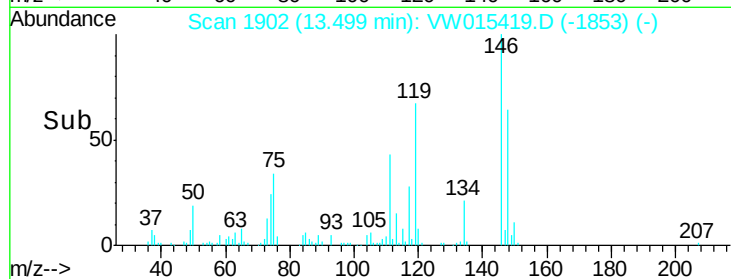
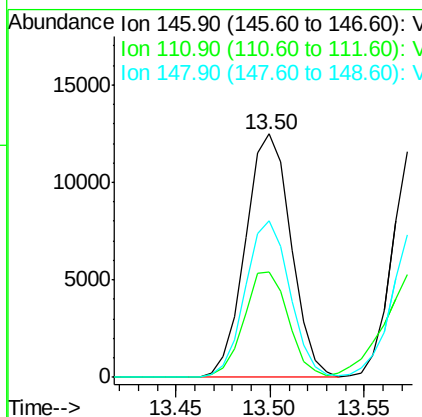
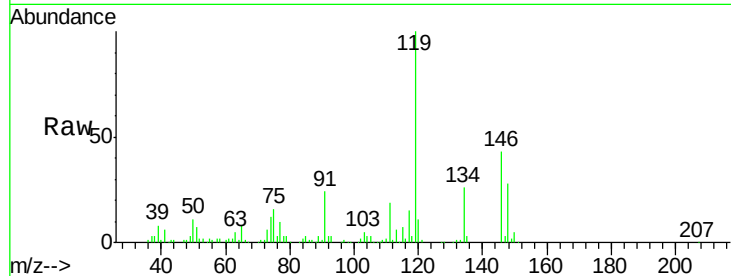




#87
 1,3-Dichlorobenzene
 Concen: 4.445 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

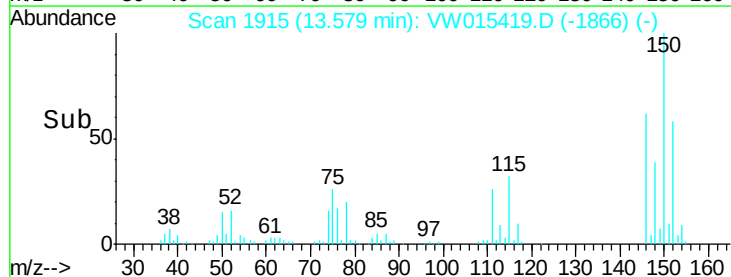
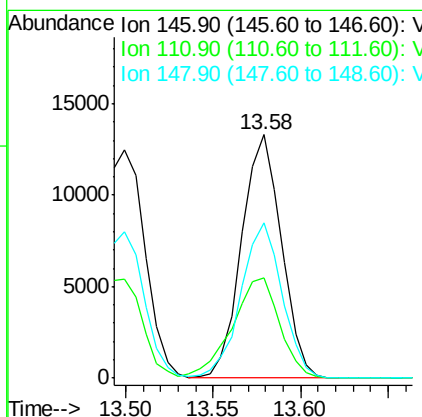
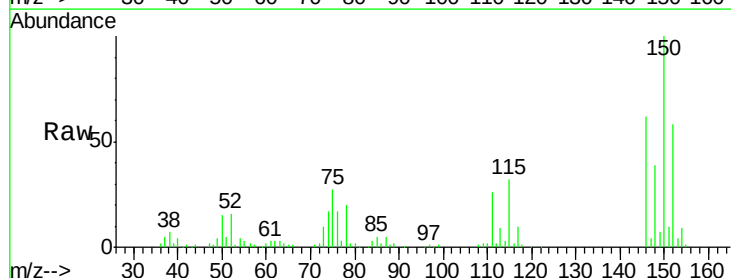
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

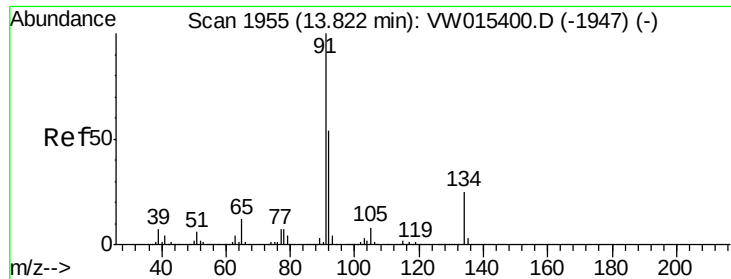
Tot Ion:146 Resp: 20922
 Ion Ratio Lower Upper
 146 100
 111 42.2 20.5 61.5
 148 62.6 31.4 94.0



#88
 1,4-Dichlorobenzene
 Concen: 4.521 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion:146 Resp: 21075
 Ion Ratio Lower Upper
 146 100
 111 49.2 20.0 60.0
 148 66.2 31.4 94.3





#89

n-Butylbenzene

Concen: 4.350 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

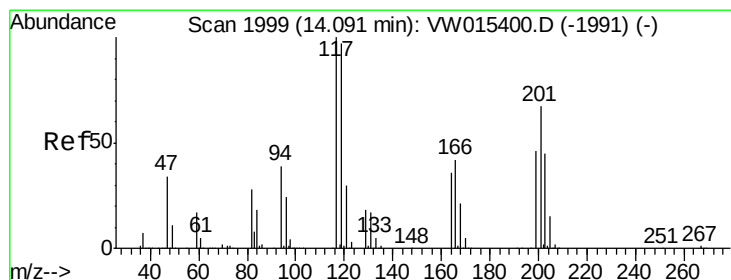
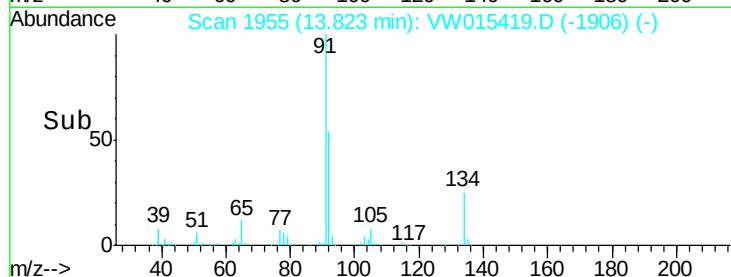
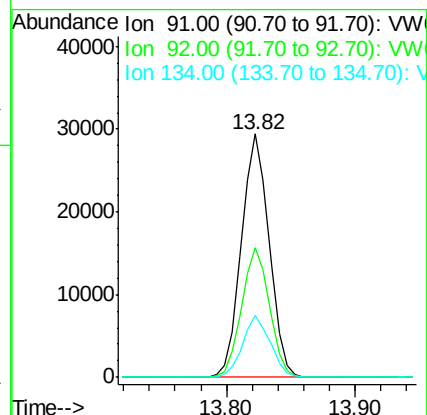
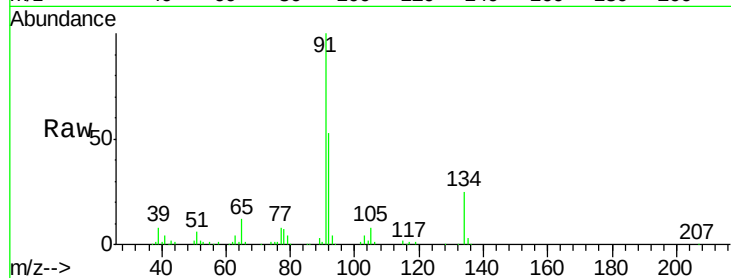
Tot Ion: 91 Resp: 43855

Ion Ratio Lower Upper

91 100

92 53.1 27.2 81.6

134 25.4 12.6 37.6



#90

Hexachloroethane

Concen: 4.319 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VW015419.D

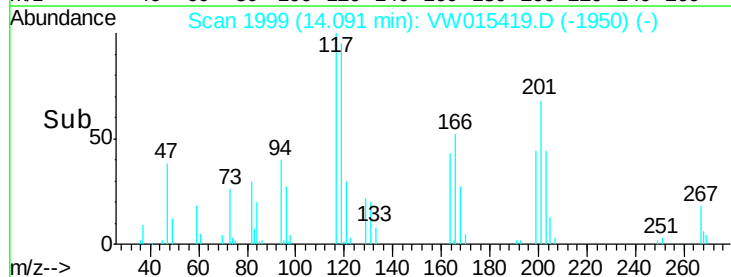
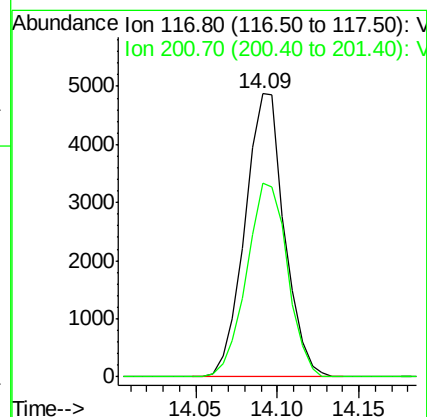
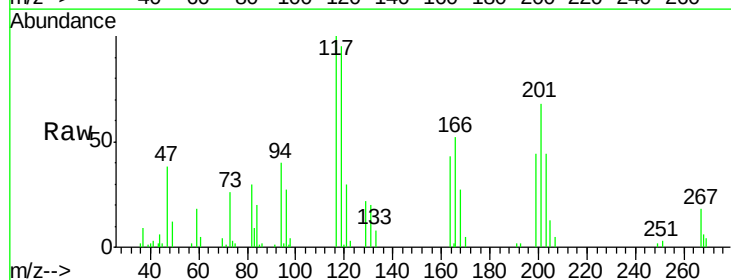
Acq: 07 May 2020 14:37

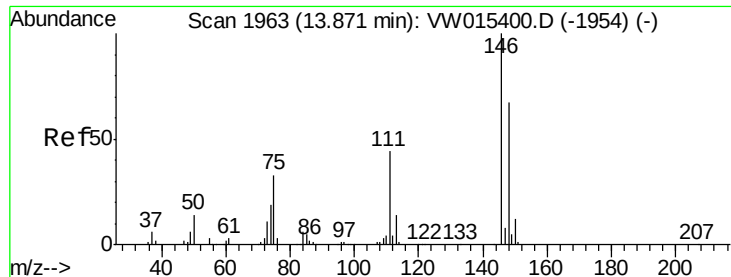
Tgt Ion: 117 Resp: 8196

Ion Ratio Lower Upper

117 100

201 70.8 35.9 107.8

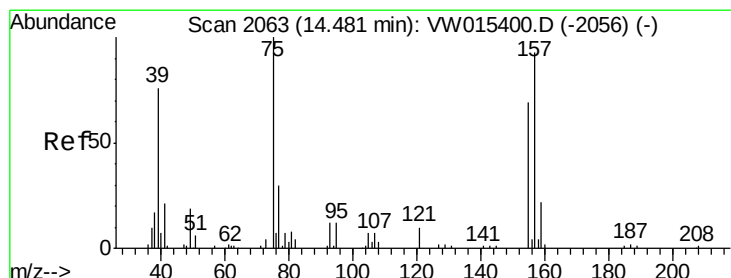
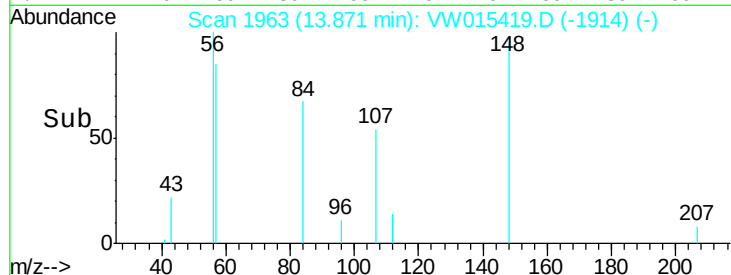
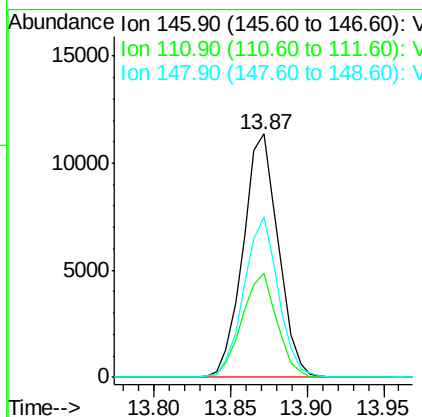
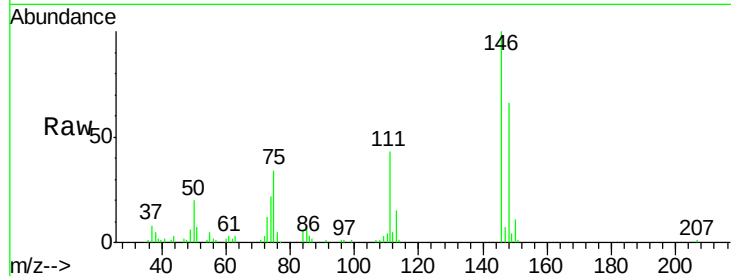




#91
 1,2-Dichlorobenzene
 Concen: 4.455 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

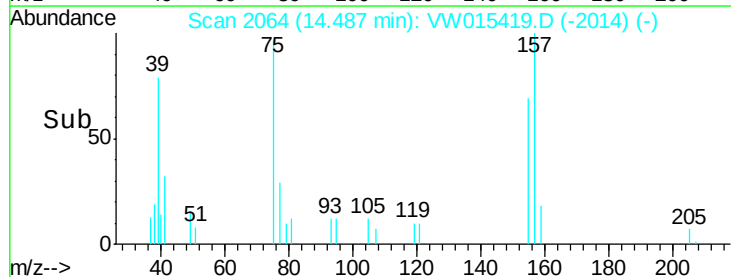
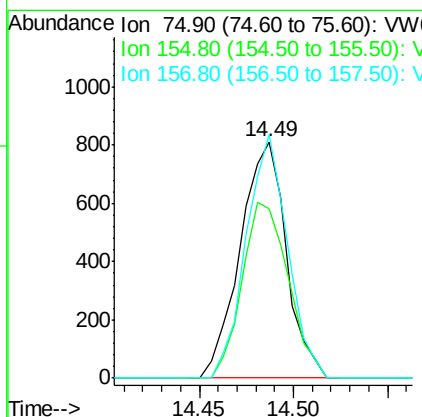
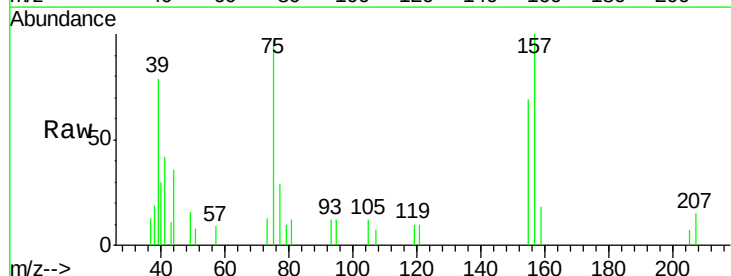
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

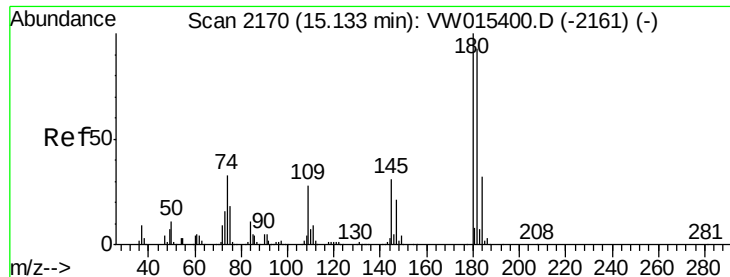
Tot Ion:146 Resp: 18156
 Ion Ratio Lower Upper
 146 100
 111 42.5 22.1 66.3
 148 64.5 32.5 97.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.512 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion: 75 Resp: 1374
 Ion Ratio Lower Upper
 75 100
 155 74.5 38.7 116.1
 157 92.5 48.1 144.4

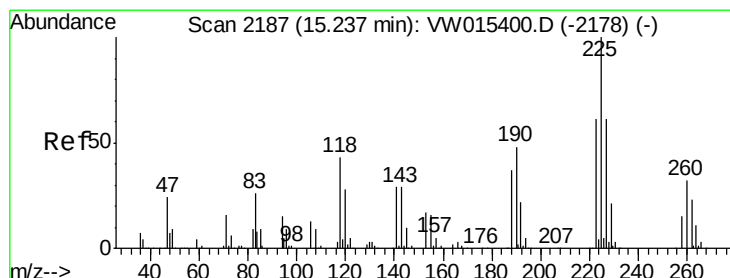
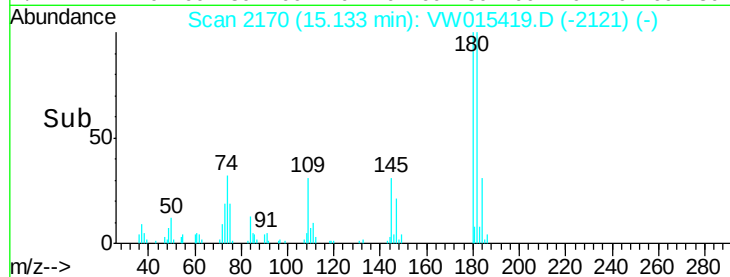
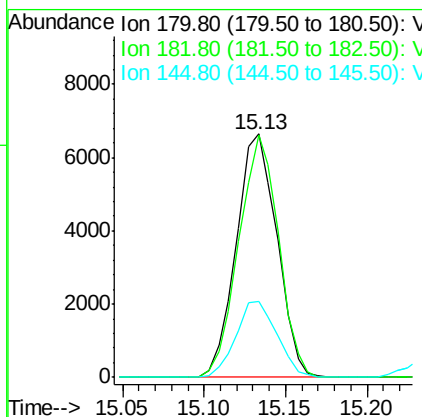
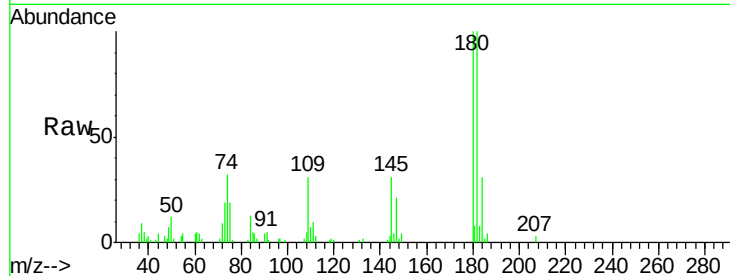




#93
 1,2,4-Trichlorobenzene
 Concen: 4.219 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

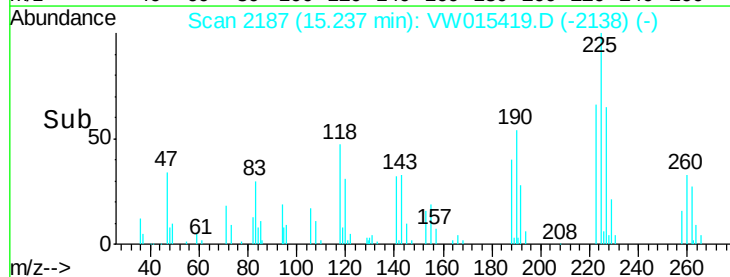
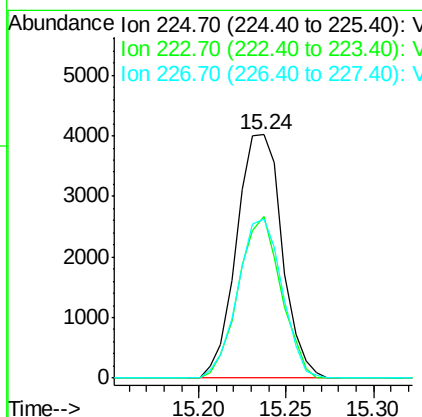
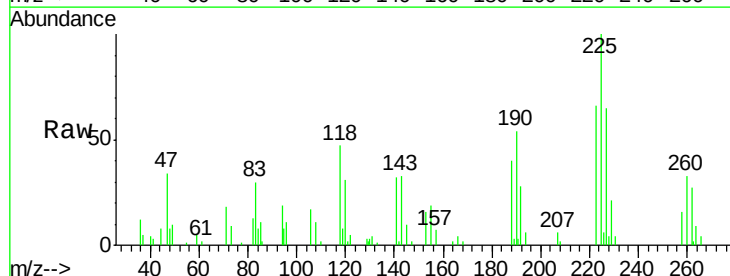
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT2-2020DL

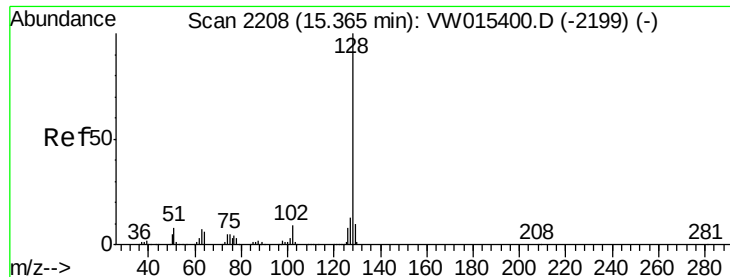
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.2	141.6
145	31.5	15.6	46.8



#94
 Hexachlorobutadiene
 Concen: 4.480 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW015419.D
 Acq: 07 May 2020 14:37

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	30.7	92.1
227	63.8	32.0	96.0





#95

Naphthalene

Concen: 4.152 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT2-2020DL

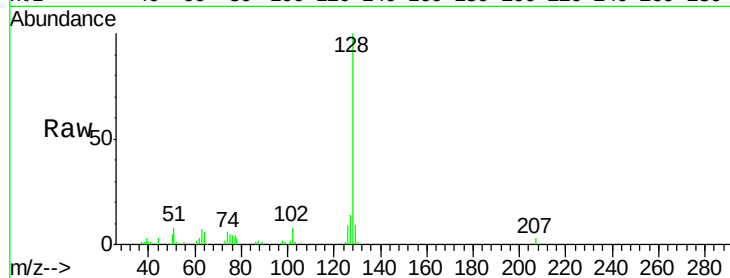
Tot Ion:128 Resp: 20370

Ion Ratio Lower Upper

128 100

127 13.9 10.5 15.7

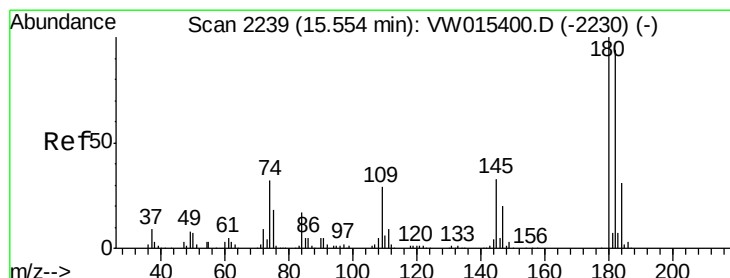
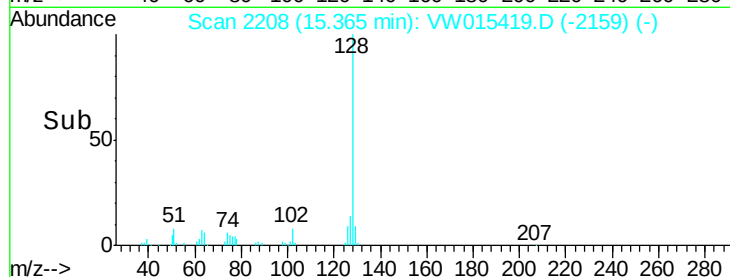
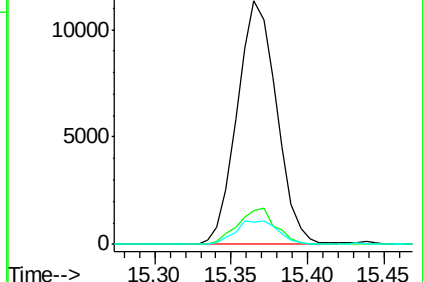
129 10.5 8.6 12.8



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: 4.435 ug/l

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW015419.D

Acq: 07 May 2020 14:37

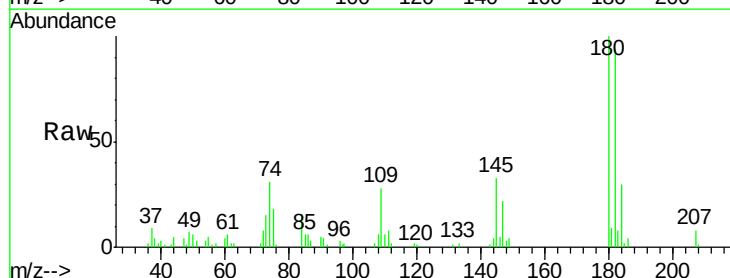
Tgt Ion:180 Resp: 10437

Ion Ratio Lower Upper

180 100

182 94.5 47.6 142.8

145 32.4 16.3 48.8



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

