

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091820\
 Data File : VW016588.D
 Acq On : 18 Sep 2020 16:32
 Operator : SY/VA
 Sample : MDL03
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03

Quant Time: Sep 19 00:21:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SFAMWLM091820SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Sep 18 13:07:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	613906	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	543245	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.56	152	267879	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	173038	25.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.92%
7) Chloroethane-d5	2.90	69	135090	23.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.96%
11) 1,1-Dichloroethene-d2	4.03	63	265448	18.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	73.36%
21) 2-Butanone-d5	7.08	46	91193	58.81	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.62%
24) Chloroform-d	7.65	84	361529	24.99	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.96%
26) 1,2-Dichloroethane-d4	8.31	65	199384	26.99	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.96%
32) Benzene-d6	8.28	84	711816	25.65	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.60%
36) 1,2-Dichloropropane-d6	9.28	67	200229	26.24	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	104.96%
41) Toluene-d8	10.33	98	695815	25.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.84%
43) trans-1,3-Dichloropropene-	10.58	79	97991	26.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	105.88%
47) 2-Hexanone-d5	10.93	63	73198	60.95	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	121.90%
56) 1,1,2,2-Tetrachloroethane-	12.69	84	168299	28.33	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	113.32%
66) 1,2-Dichlorobenzene-d4	13.85	152	263188	27.13	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	108.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	3618	0.489 ug/L #	77
3) Chloromethane	2.22	50	6777	1.155 ug/L	95
5) Vinyl chloride	2.37	62	10201	1.213 ug/L #	38
6) Bromomethane	2.79	94	6810	1.054 ug/L	85
8) Chloroethane	2.94	64	5603	1.121 ug/L	97
9) Trichlorofluoromethane	3.28	101	7687	0.964 ug/L	99
12) 1,1-Dichloroethene	4.04	96	10766	1.360 ug/L #	1
13) Acetone	4.15	43	4364	4.171 ug/L	91
14) Carbon disulfide	4.39	76	25222	1.073 ug/L	97
15) Methyl Acetate	4.69	43	2604	1.014 ug/L	97
16) Methylene chloride	4.93	84	28550	3.173 ug/L	90
17) trans-1,2-Dichloroethene	5.44	96	9388	1.143 ug/L	94
18) Methyl tert-butyl Ether	5.43	73	12270	1.216 ug/L #	81
19) 1,1-Dichloroethane	6.23	63	15123	1.162 ug/L	92
20) cis-1,2-Dichloroethene	7.18	96	9532	1.116 ug/L	80
22) 2-Butanone	7.17	43	4900	2.755 ug/L #	51
23) Bromochloromethane	7.52	128	4974	1.239 ug/L	95

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 Response via : Initial Calibration

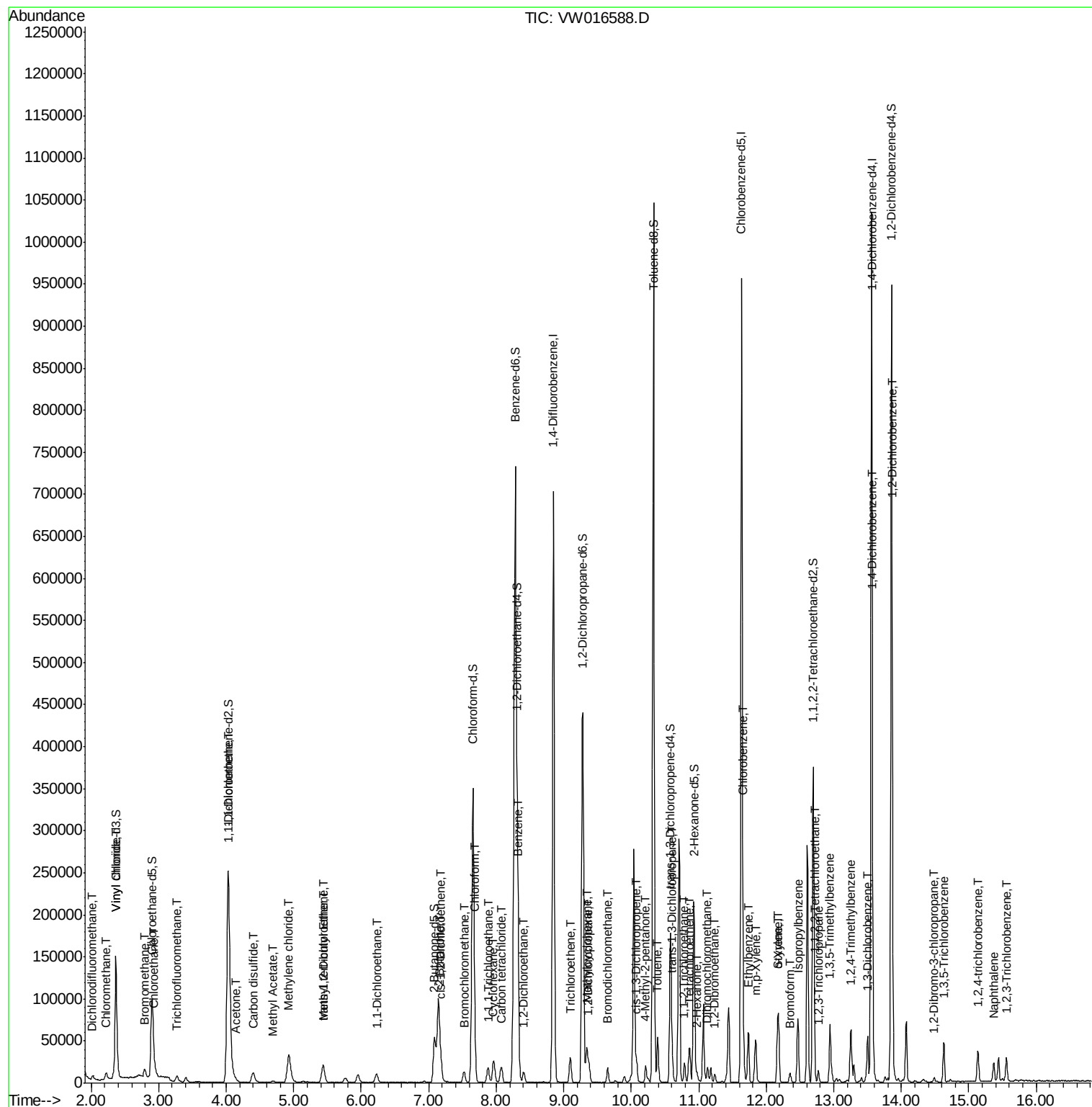
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.68	83	17106	1.202	ug/L	97
27) 1,2-Dichloroethane	8.40	62	11405	1.290	ug/L	98
29) Cyclohexane	7.96	56	13238	1.091	ug/L	96
30) 1,1,1-Trichloroethane	7.88	97	14569	1.126	ug/L	97
31) Carbon tetrachloride	8.07	117	14348	1.138	ug/L	98
33) Benzene	8.33	78	34445	1.145	ug/L	100
34) Trichloroethene	9.10	95	9754	1.130	ug/L	93
35) Methylcyclohexane	9.34	83	16476	1.143	ug/L	99
37) 1,2-Dichloropropane	9.37	63	8092	1.179	ug/L #	95
38) Bromodichloromethane	9.65	83	11785	1.158	ug/L	98
39) cis-1,3-Dichloropropene	10.08	75	12954	1.106	ug/L	92
40) 4-Methyl-2-pentanone	10.21	43	13013	3.385	ug/L	98
42) Toluene	10.39	91	39031	1.151	ug/L	95
44) trans-1,3-Dichloropropene	10.60	75	16324	1.625	ug/L	95
45) 1,1,2-Trichloroethane	10.79	97	7216	1.295	ug/L	98
46) Tetrachloroethene	10.87	164	9355	1.201	ug/L	96
48) 2-Hexanone	10.98	43	6283	2.628	ug/L	98
49) Dibromochloromethane	11.13	129	8477	1.159	ug/L	98
50) 1,2-Dibromoethane	11.24	107	6806	1.233	ug/L	96
51) Chlorobenzene	11.66	112	26098	1.161	ug/L	100
52) Ethylbenzene	11.73	91	42521	1.114	ug/L	99
53) m,p-Xylene	11.84	106	16768	1.128	ug/L	96
54) o-Xylene	12.17	106	15667	1.113	ug/L	96
55) Styrene	12.18	104	24861	1.061	ug/L	98
57) 1,1,2,2-Tetrachloroethane	12.72	83	8179	1.363	ug/L	97
59) Bromoform	12.35	173	4856	1.123	ug/L #	96
60) Isopropylbenzene	12.47	105	43382	1.109	ug/L #	96
61) 1,2,3-Trichloropropane	12.77	75	5445	1.233	ug/L #	92
62) 1,3,5-Trimethylbenzene	12.94	105	34922	1.085	ug/L	100
63) 1,2,4-Trimethylbenzene	13.26	105	35105	1.097	ug/L	100
64) 1,3-Dichlorobenzene	13.50	146	20642	1.150	ug/L	96
65) 1,4-Dichlorobenzene	13.58	146	21462	1.219	ug/L	96
67) 1,2-Dichlorobenzene	13.87	146	19017	1.198	ug/L	97
68) 1,2-Dibromo-3-chloropropan	14.49	75	1359	1.310	ug/L #	84
69) 1,3,5-Trichlorobenzene	14.63	180	15047	1.136	ug/L	95
70) 1,2,4-trichlorobenzene	15.13	180	11380	1.064	ug/L	99
71) Naphthalene	15.37	128	19230	1.071	ug/L	99
72) 1,2,3-Trichlorobenzene	15.55	180	10294	1.146	ug/L	99

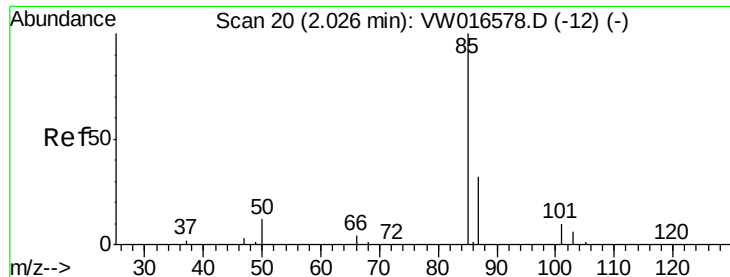
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#2

Dichlorodifluoromethane

Concen: 0.489 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.01 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

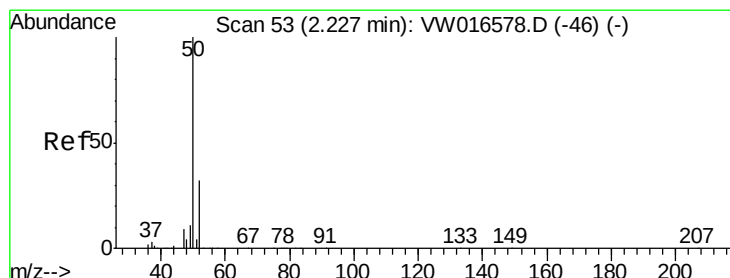
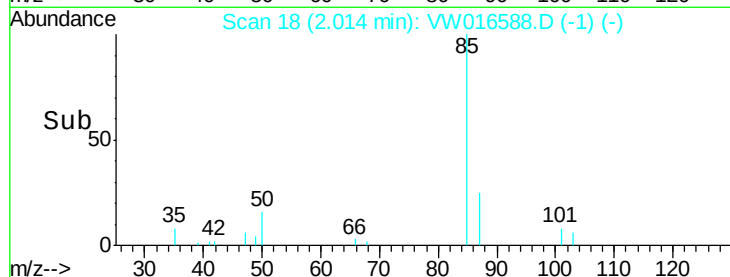
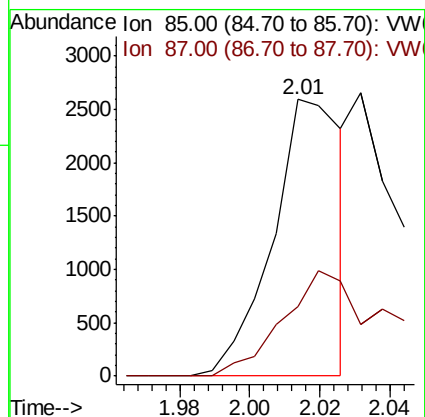
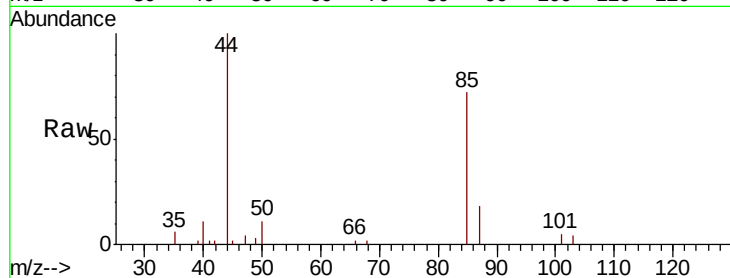
MDL-SOIL-03

Tot Ion: 85 Resp: 3618

Ion Ratio Lower Upper

85 100

87 38.7 21.4 32.0#



#3

Chloromethane

Concen: 1.155 ug/L

RT: 2.22 min Scan# 52

Delta R.T. -0.01 min

Lab File: VW016588.D

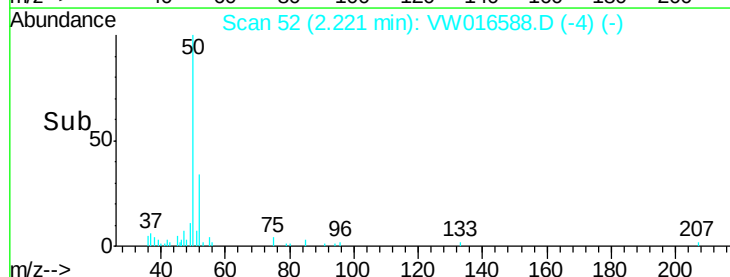
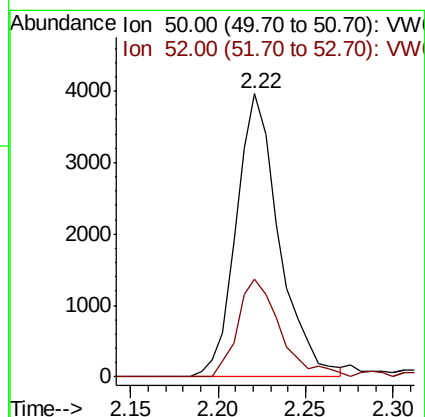
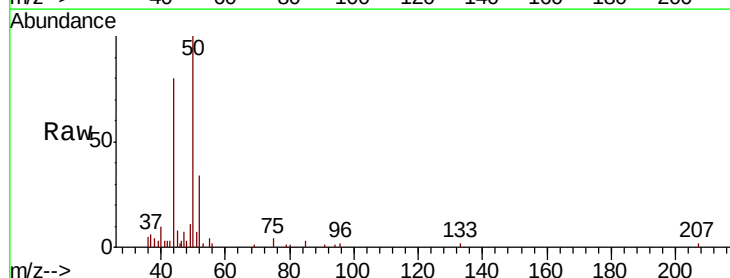
Acq: 18 Sep 2020 16:32

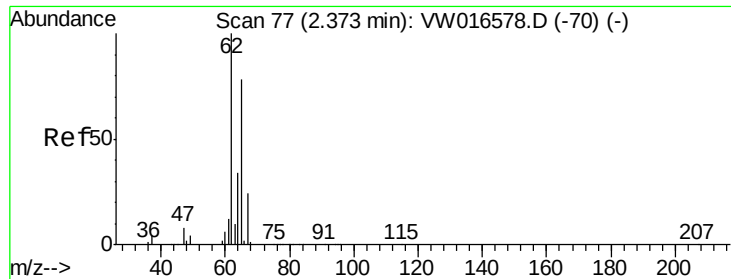
Tgt Ion: 50 Resp: 6777

Ion Ratio Lower Upper

50 100

52 34.5 22.1 41.1





#5

Vinyl chloride

Concen: 1.213 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampled :

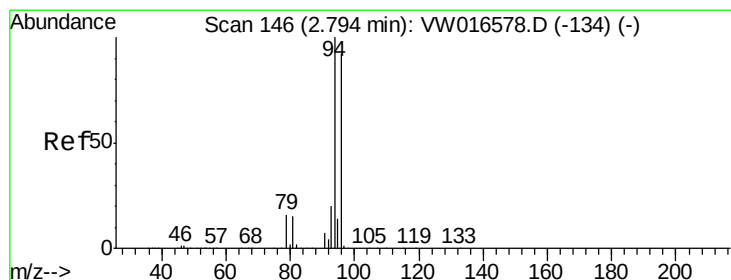
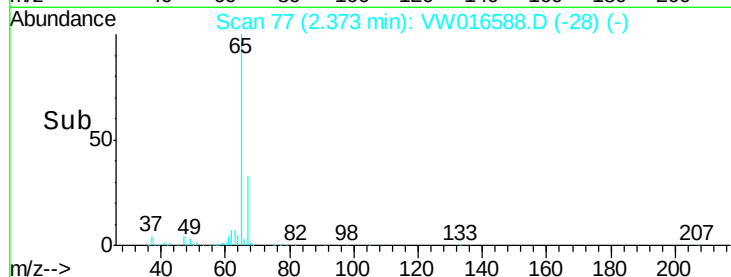
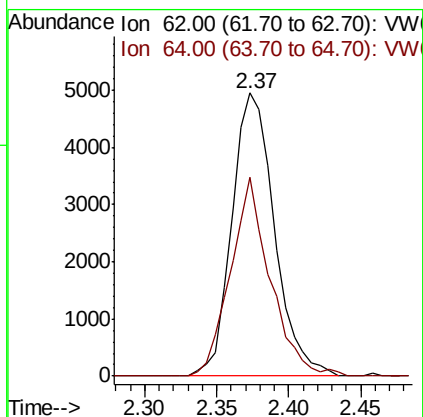
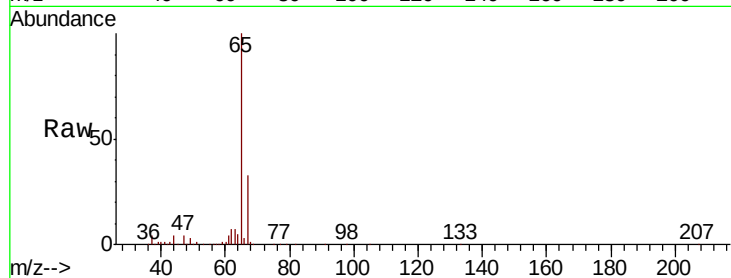
MDL-SOIL-03

Tot Ion: 62 Resp: 10201

Ion Ratio Lower Upper

62 100

64 70.2 24.1 44.7#



#6

Bromomethane

Concen: 1.054 ug/L

RT: 2.79 min Scan# 146

Delta R.T. 0.00 min

Lab File: VW016588.D

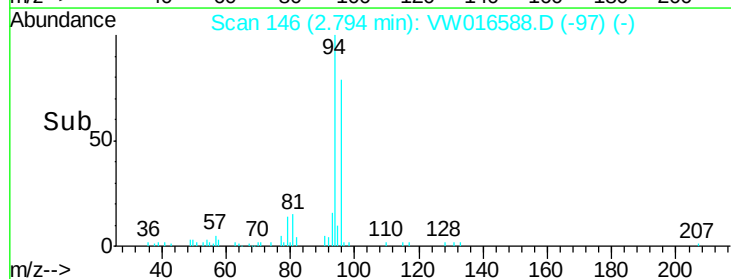
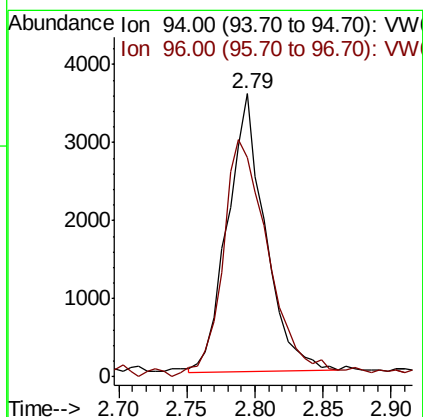
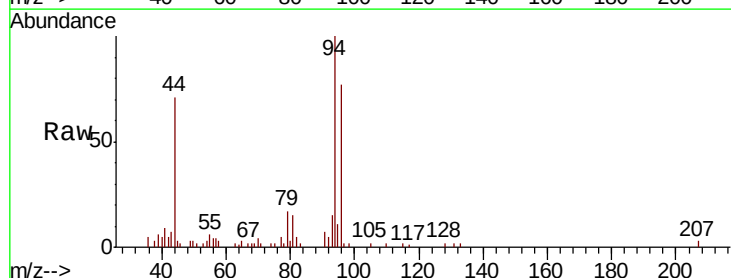
Acq: 18 Sep 2020 16:32

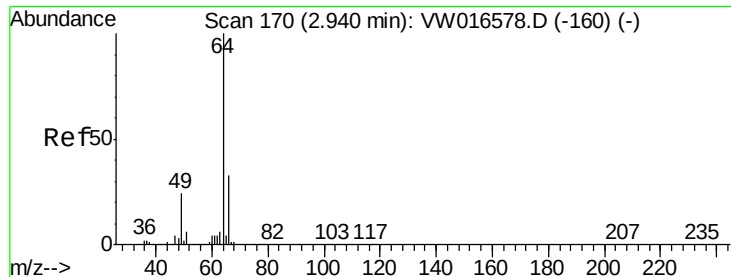
Tgt Ion: 94 Resp: 6810

Ion Ratio Lower Upper

94 100

96 77.3 64.2 119.2





#8

Chloroethane

Concen: 1.121 ug/L

RT: 2.94 min Scan# 170

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

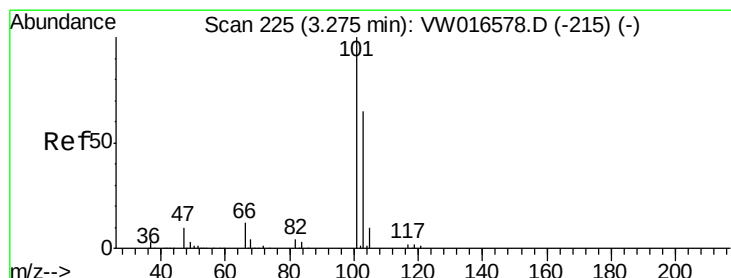
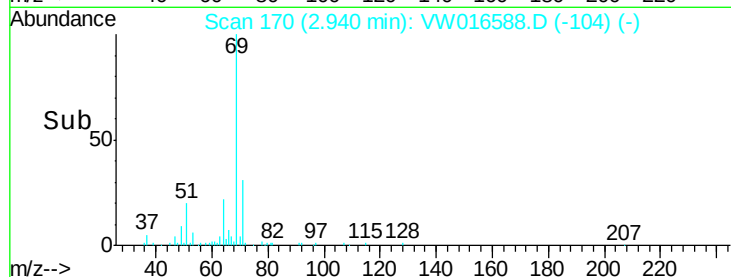
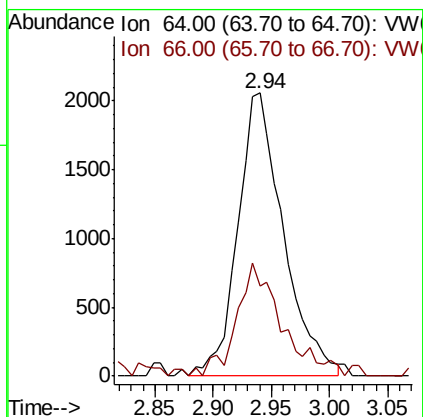
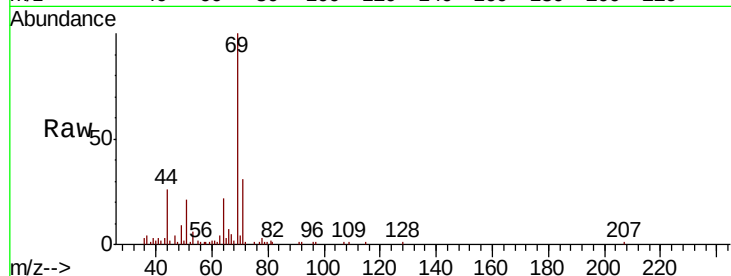
MDL-SOIL-03

Tot Ion: 64 Resp: 5603

Ion Ratio Lower Upper

64 100

66 31.9 23.5 43.7



#9

Trichlorofluoromethane

Concen: 0.964 ug/L

RT: 3.28 min Scan# 225

Delta R.T. 0.00 min

Lab File: VW016588.D

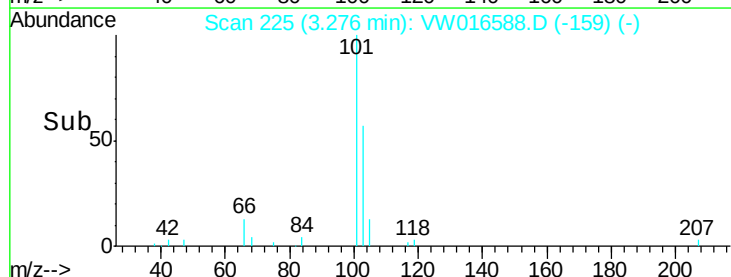
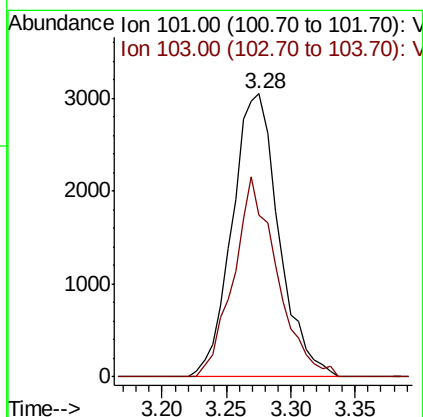
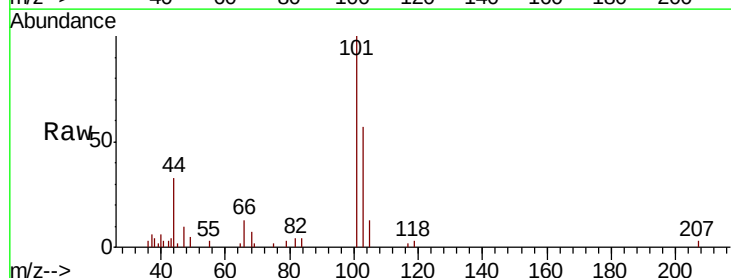
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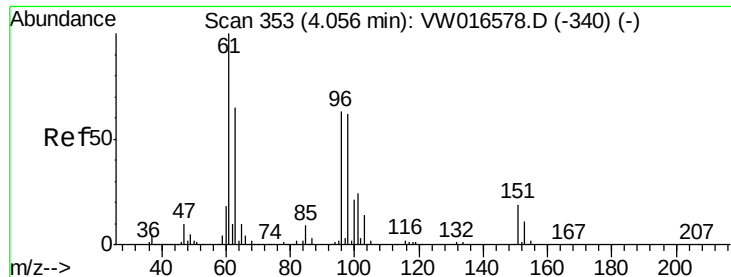
Tgt Ion: 101 Resp: 7687

Ion Ratio Lower Upper

101 100

103 65.6 51.8 77.8

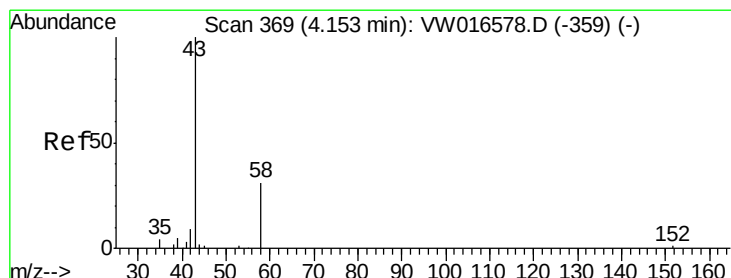
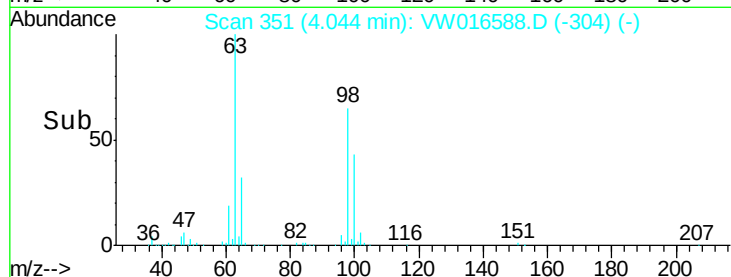
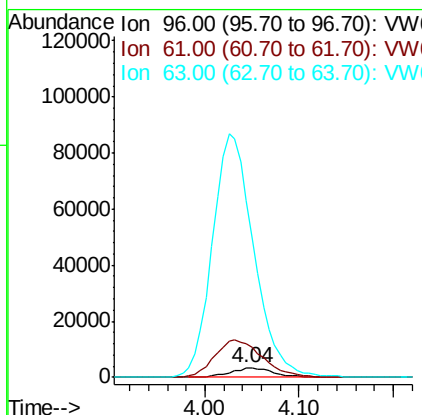
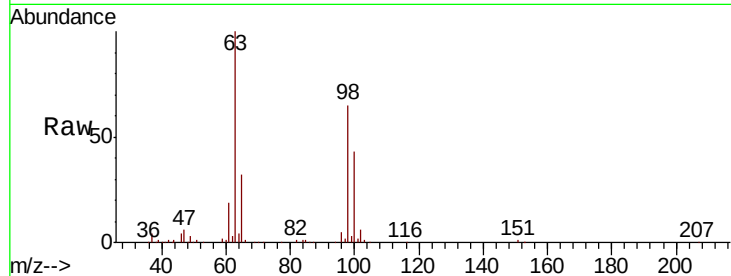




#12
 1,1-Dichloroethene
 Concen: 1.360 ug/L
 RT: 4.04 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

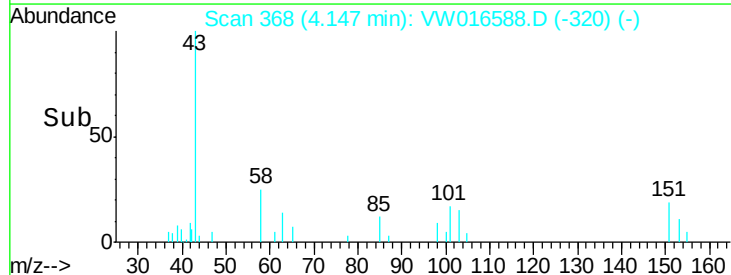
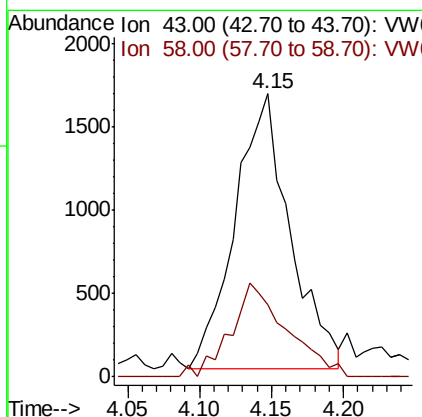
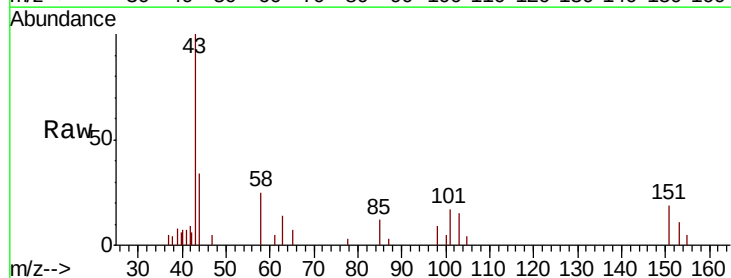
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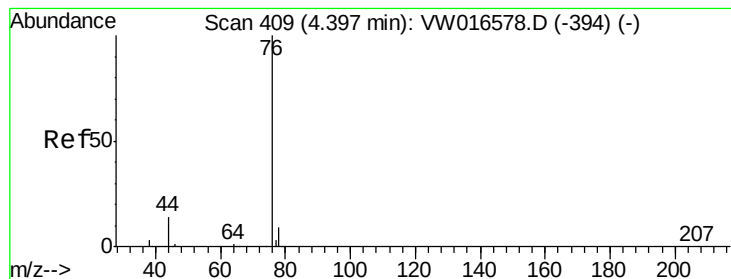
Tot Ion: 96 Resp: 10766
 Ion Ratio Lower Upper
 96 100
 61 363.0 112.1 208.3#
 63 1888.4 74.2 137.8#



#13
 Acetone
 Concen: 4.171 ug/L
 RT: 4.15 min Scan# 368
 Delta R.T. -0.01 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

Tgt Ion: 43 Resp: 4364
 Ion Ratio Lower Upper
 43 100
 58 34.4 0.0 59.4





#14

Carbon disulfide

Concen: 1.073 ug/L

RT: 4.39 min Scan# 408

Delta R.T. -0.01 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

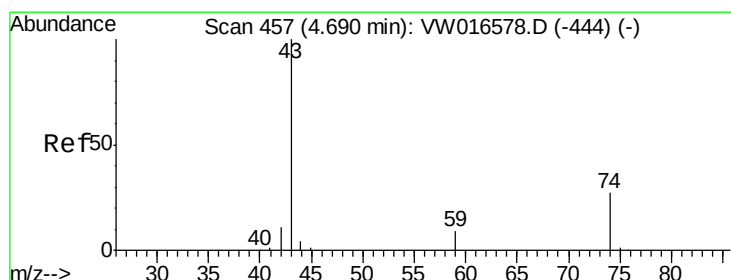
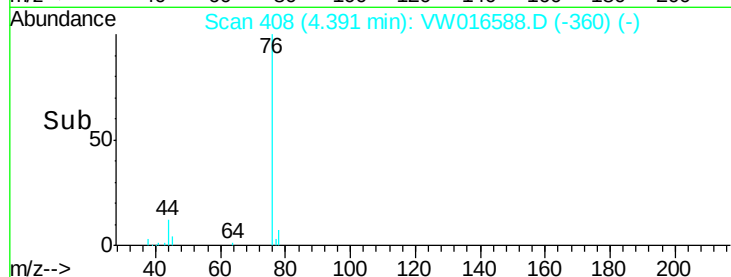
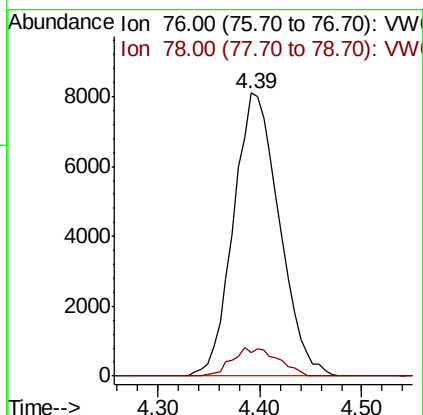
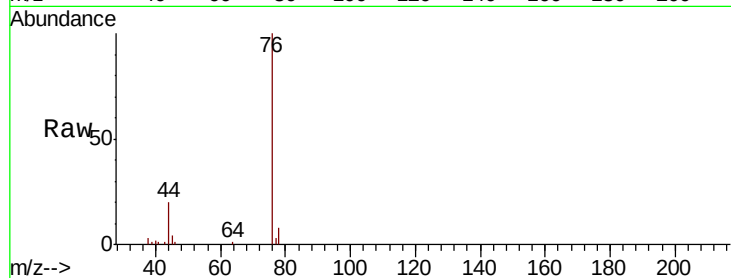
MDL-SOIL-03

Tot Ion: 76 Resp: 25222

Ion Ratio Lower Upper

76 100

78 8.1 7.3 10.9



#15

Methyl Acetate

Concen: 1.014 ug/L

RT: 4.69 min Scan# 457

Delta R.T. 0.00 min

Lab File: VW016588.D

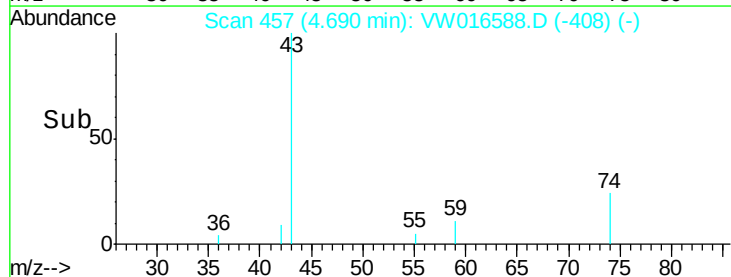
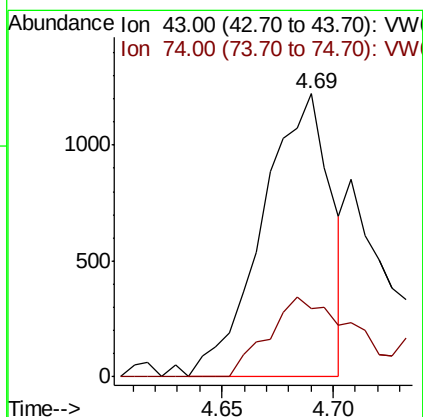
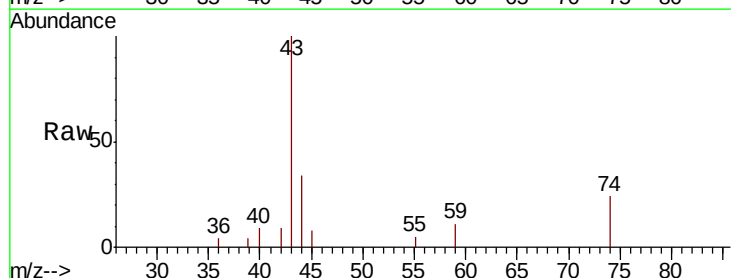
Acq: 18 Sep 2020 16:32

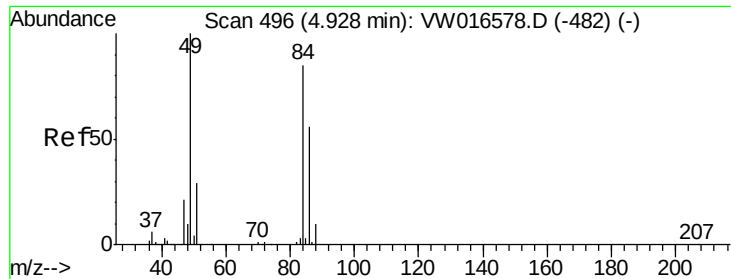
Tgt Ion: 43 Resp: 2604

Ion Ratio Lower Upper

43 100

74 26.0 21.9 32.9

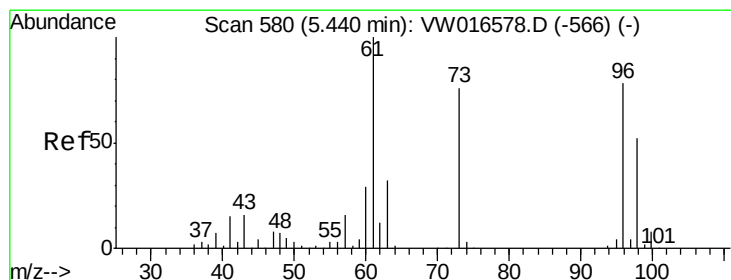
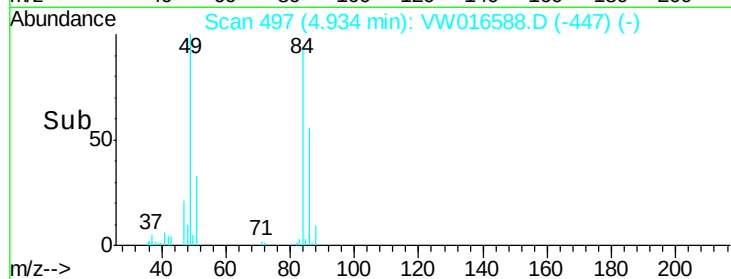
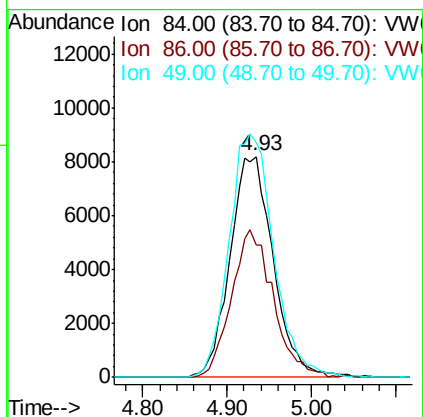
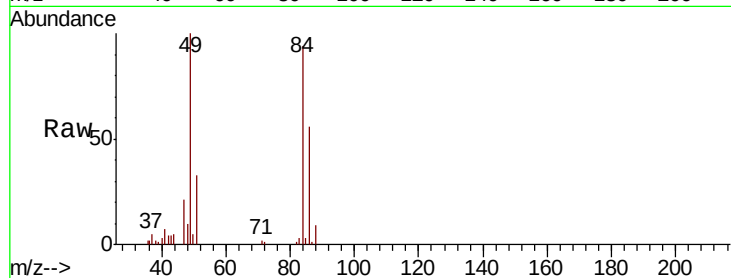




#16
Methylene chloride
Concen: 3.173 ug/L
RT: 4.93 min Scan# 497
Delta R.T. 0.01 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

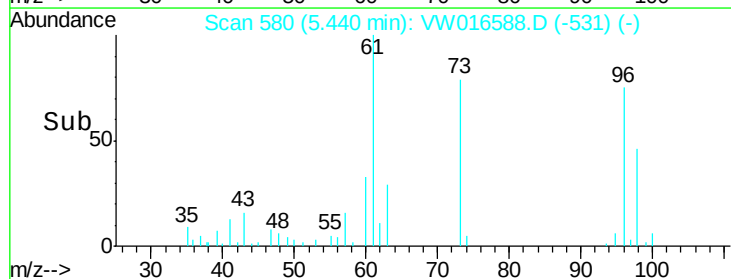
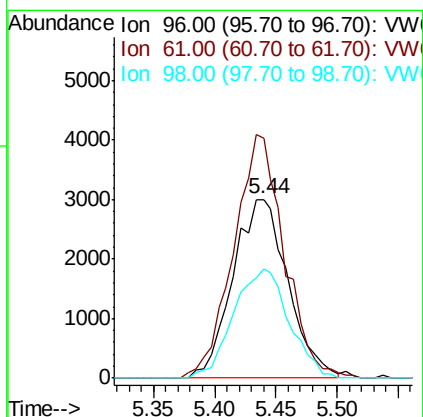
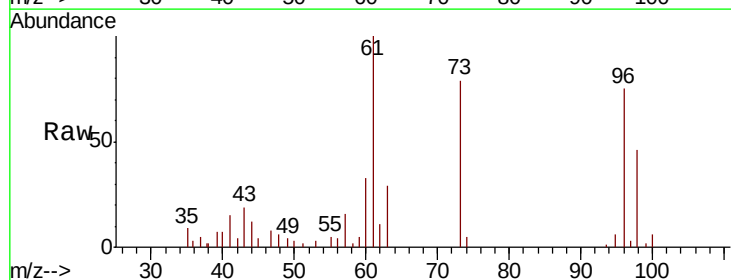
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03

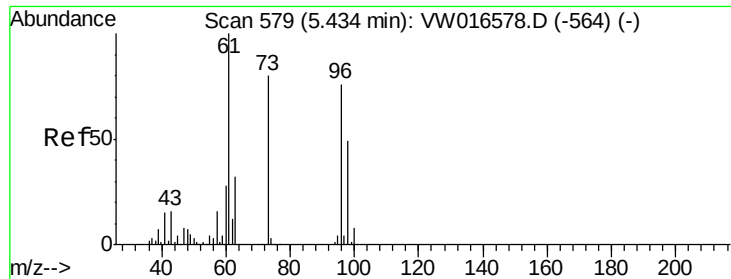
Tot Ion: 84 Resp: 28550
Ion Ratio Lower Upper
84 100
86 59.7 46.2 85.8
49 106.1 82.8 153.8



#17
trans-1,2-Dichloroethene
Concen: 1.143 ug/L
RT: 5.44 min Scan# 580
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

Tgt Ion: 96 Resp: 9388
Ion Ratio Lower Upper
96 100
61 134.2 89.7 166.7
98 61.2 46.4 86.2

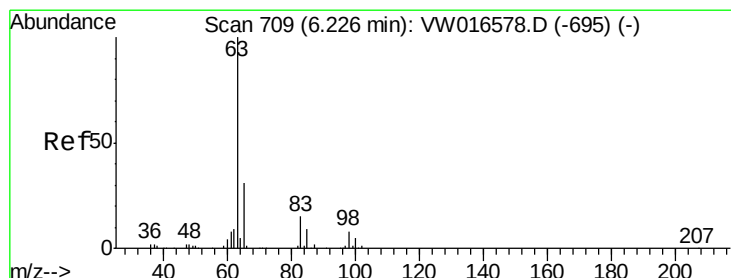
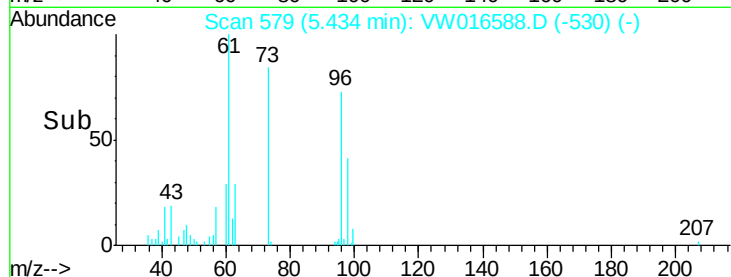
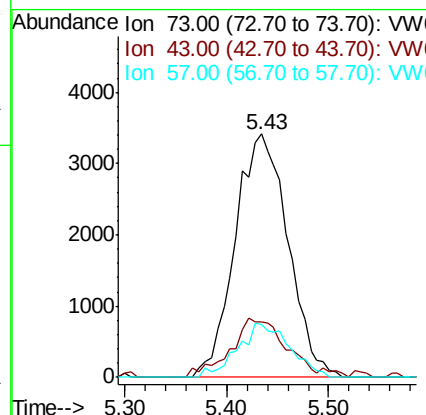
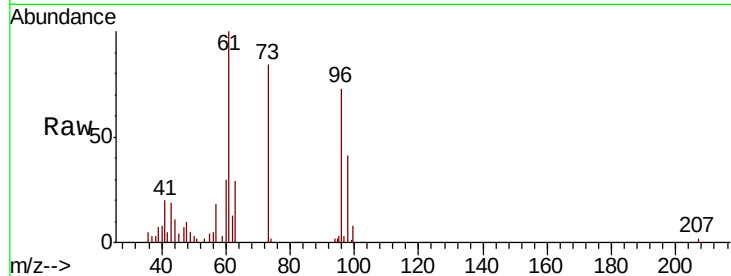




#18
Methyl tert-butyl Ether
Concen: 1.216 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

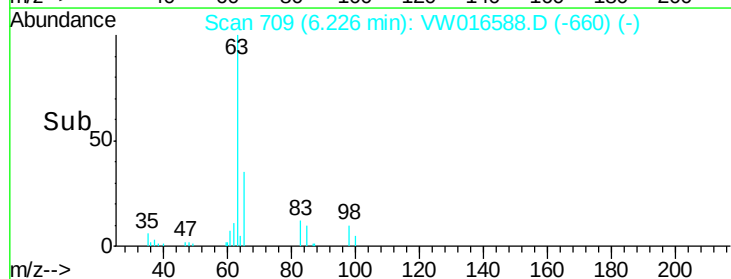
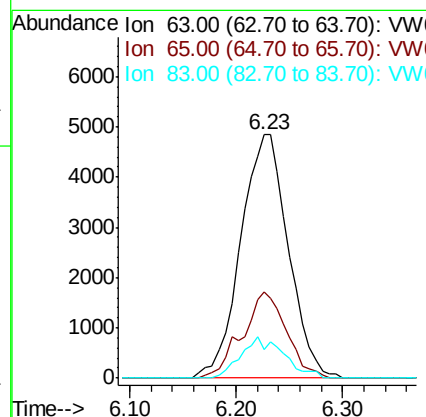
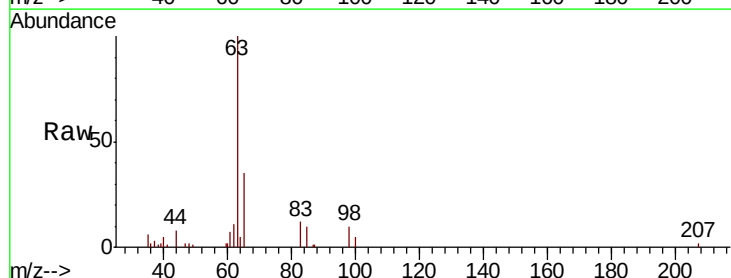
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03

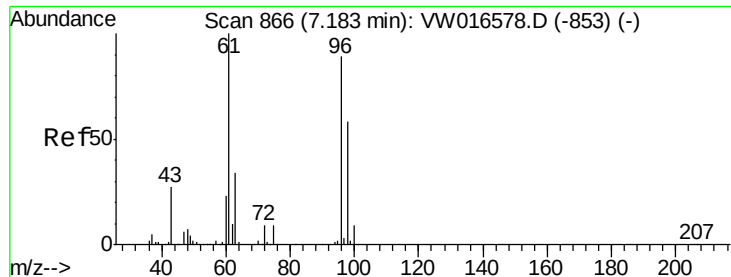
Tot Ion: 73 Resp: 12270
Ion Ratio Lower Upper
73 100
43 12.3 17.0 25.6#
57 11.6 16.3 24.5#



#19
1,1-Dichloroethane
Concen: 1.162 ug/L
RT: 6.23 min Scan# 709
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

Tgt Ion: 63 Resp: 15123
Ion Ratio Lower Upper
63 100
65 35.5 21.8 40.6
83 11.7 10.2 19.0

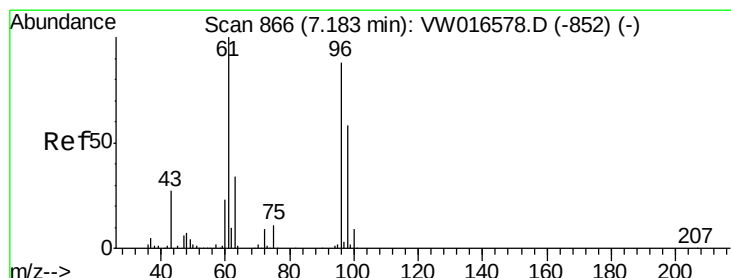
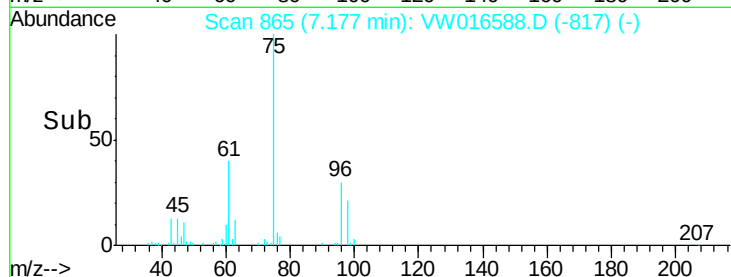
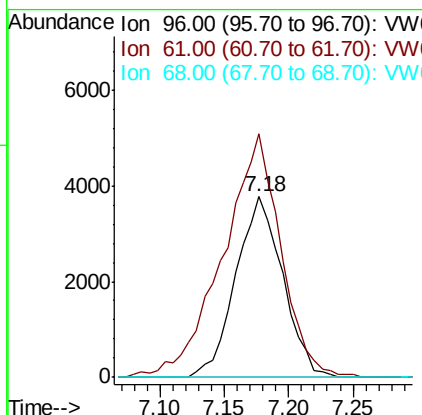
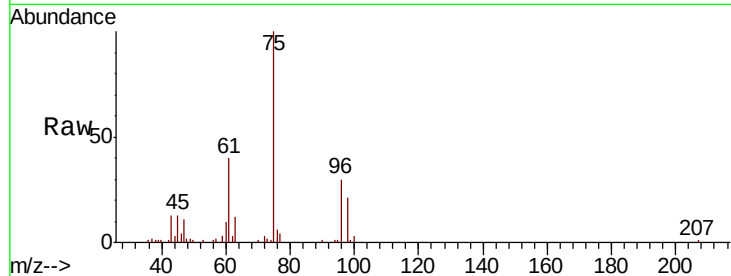




#20
 cis-1,2-Dichloroethene
 Concen: 1.116 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. -0.01 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

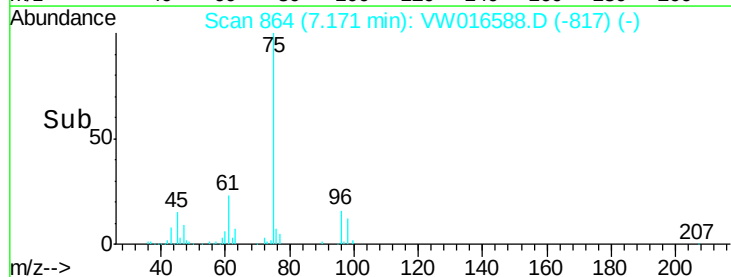
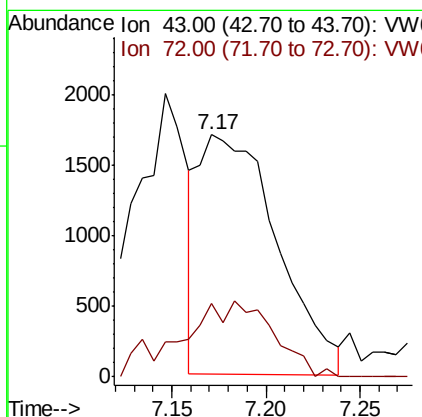
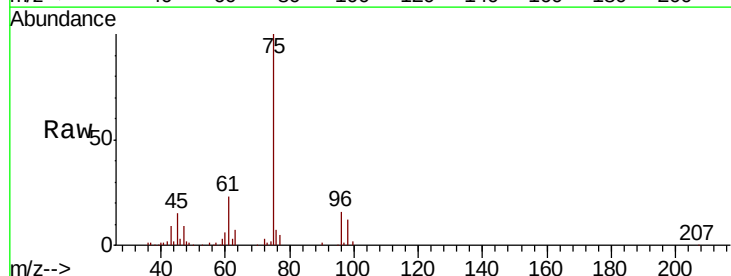
Instrument :
 MSVOA_W
 ClientSampled :
 MDL-SOIL-03

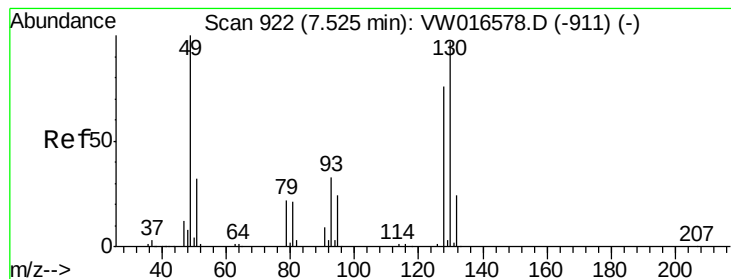
Tot Ion: 96 Resp: 9532
 Ion Ratio Lower Upper
 96 100
 61 134.6 79.2 147.0
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 2.755 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.01 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

Tgt Ion: 43 Resp: 4900
 Ion Ratio Lower Upper
 43 100
 72 4.0 15.7 47.0#





#23

Bromochloromethane

Concen: 1.239 ug/L

RT: 7.52 min Scan# 922

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03

Tot Ion:128 Resp: 4974

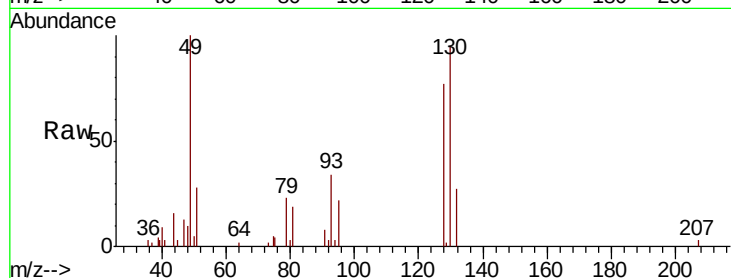
Ion Ratio Lower Upper

128 100

49 126.6 91.5 169.9

130 120.6 89.0 165.4

51 36.0 33.0 49.6

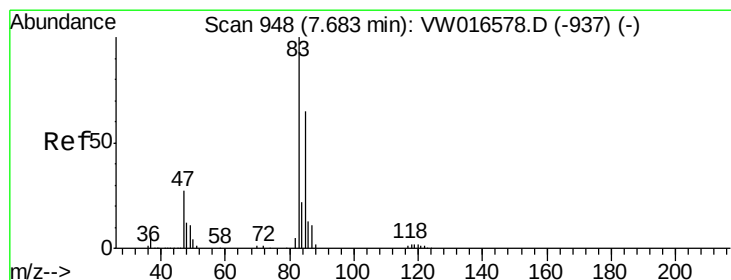
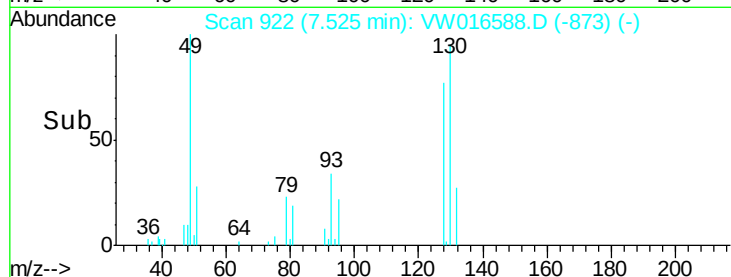
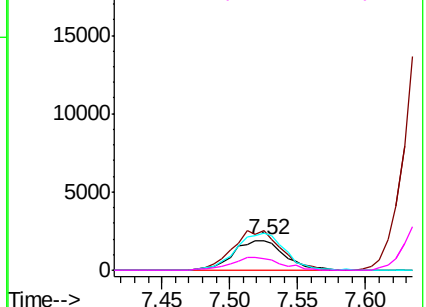


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 1.202 ug/L

RT: 7.68 min Scan# 948

Delta R.T. 0.00 min

Lab File: VW016588.D

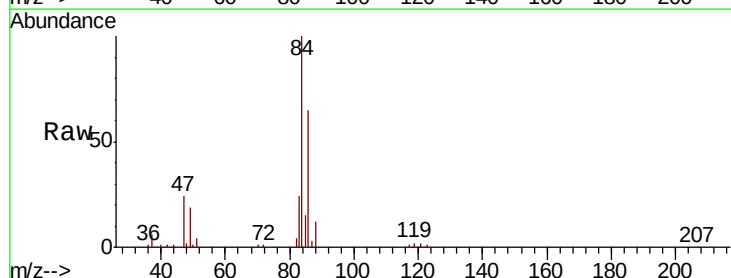
Acq: 18 Sep 2020 16:32

Tgt Ion: 83 Resp: 17106

Ion Ratio Lower Upper

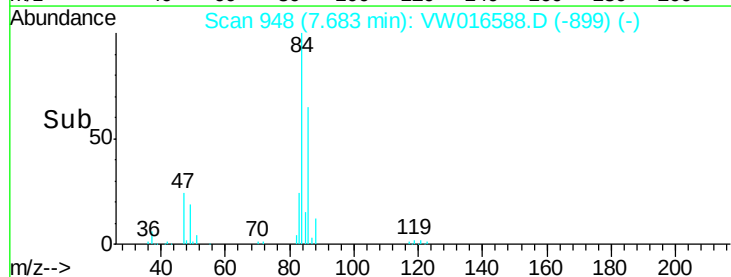
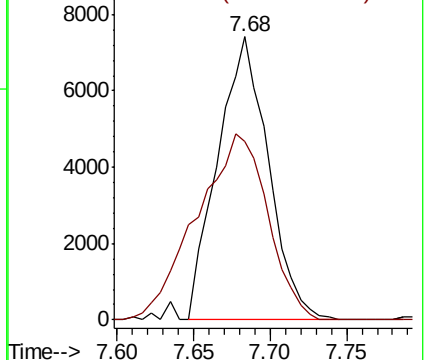
83 100

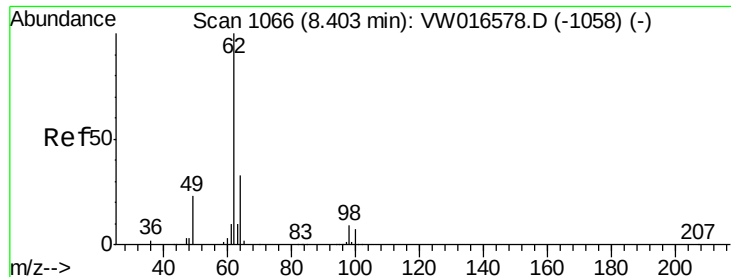
85 62.8 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 1.290 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

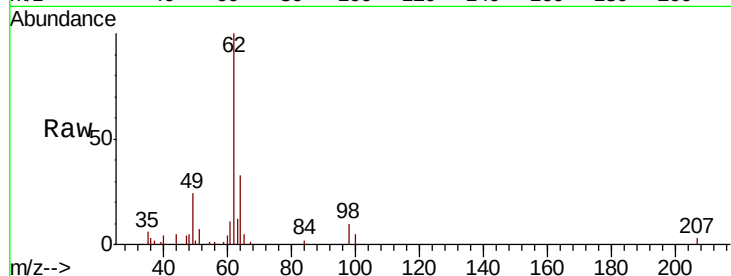
MDL-SOIL-03

Tot Ion: 62 Resp: 11405

Ion Ratio Lower Upper

62 100

98 9.8 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

8.40

6000

5000

4000

3000

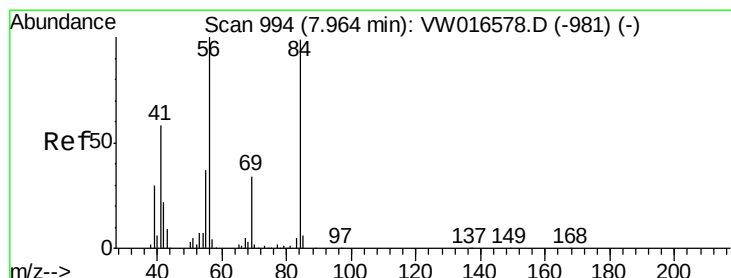
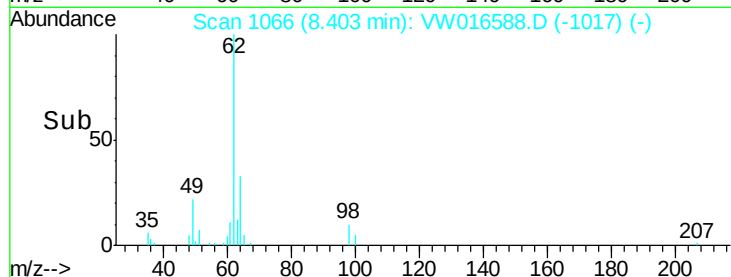
2000

1000

0

8.30 8.35 8.40 8.45 8.50

Time-->



#29

Cyclohexane

Concen: 1.091 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

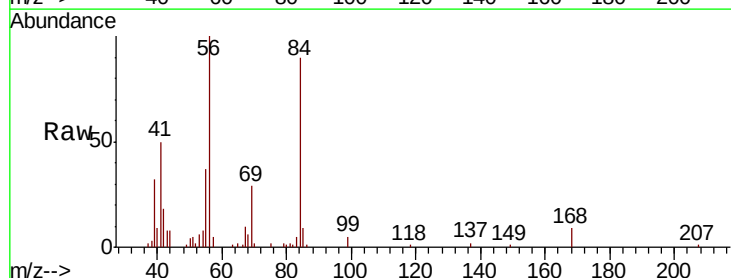
Tgt Ion: 56 Resp: 13238

Ion Ratio Lower Upper

56 100

69 33.3 26.4 39.6

84 94.9 79.9 119.9



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

7.96

6000

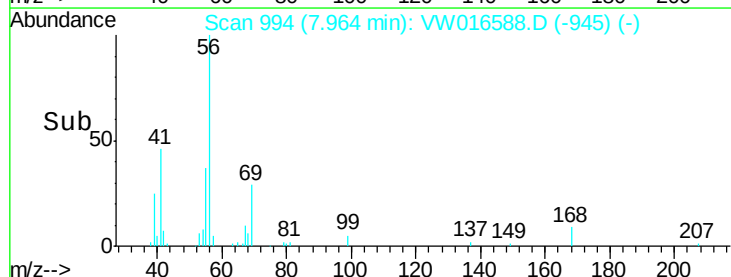
4000

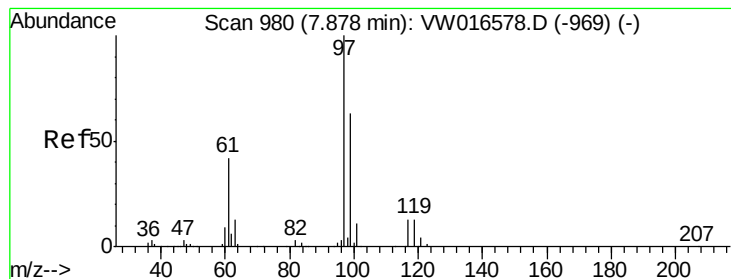
2000

0

7.90 7.95 8.00

Time-->





#30

1,1,1-Trichloroethane

Concen: 1.126 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03

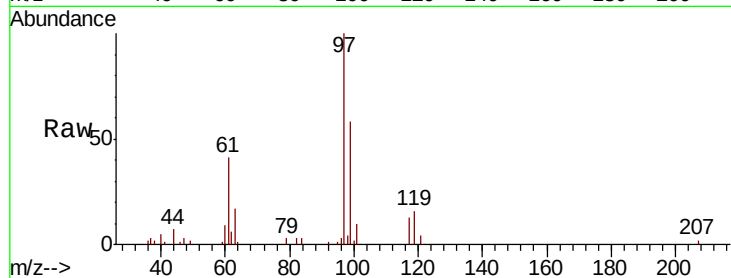
Tot Ion: 97 Resp: 14569

Ion Ratio Lower Upper

97 100

99 66.8 50.9 76.3

61 42.2 33.2 49.8

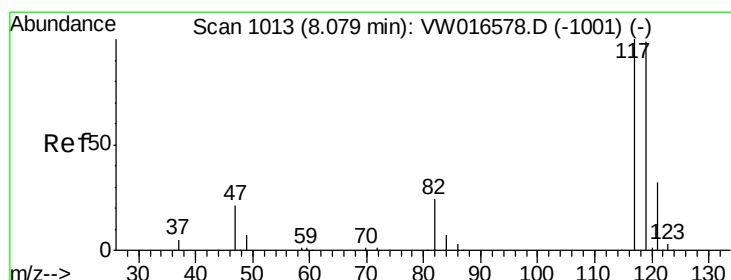
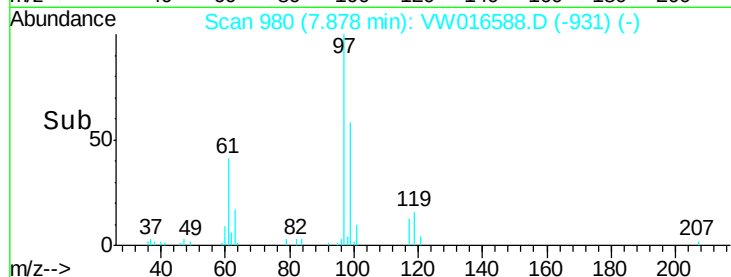
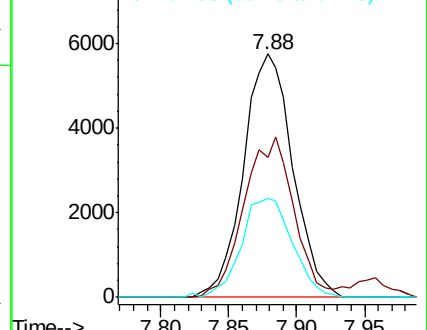


Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.05 (60.75 to 61.75): VW



#31

Carbon tetrachloride

Concen: 1.138 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. -0.01 min

Lab File: VW016588.D

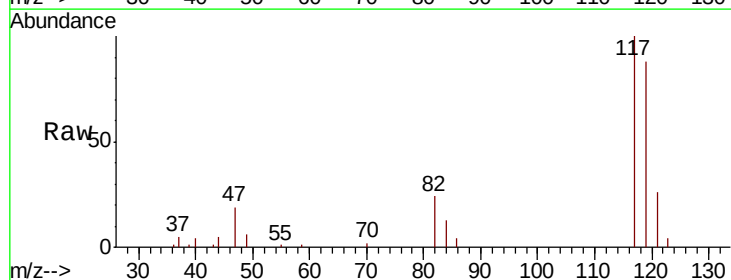
Acq: 18 Sep 2020 16:32

Tgt Ion: 117 Resp: 14348

Ion Ratio Lower Upper

117 100

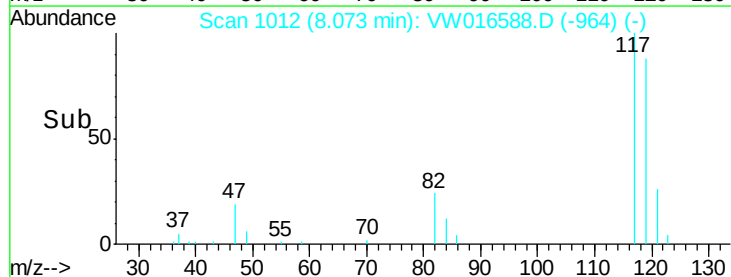
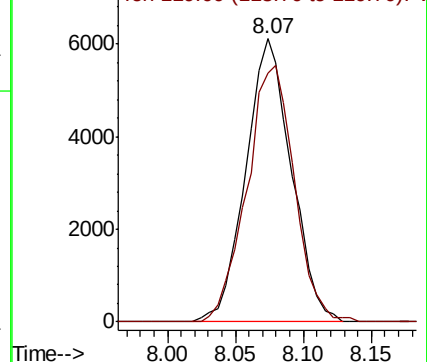
119 93.8 76.7 115.1

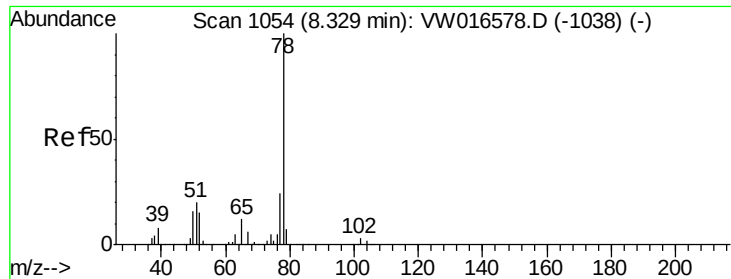


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#33

Benzene

Concen: 1.145 ug/L

RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

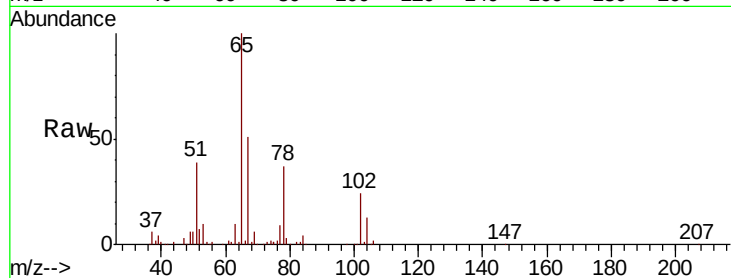
Instrument :

MSVOA_W

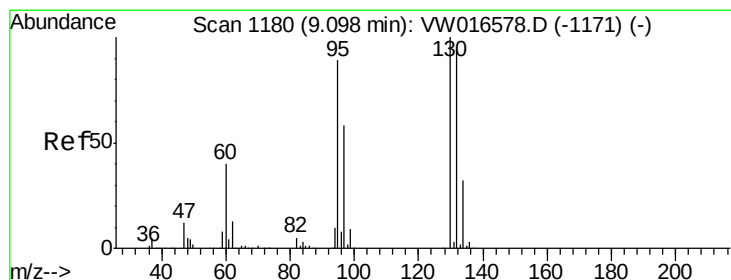
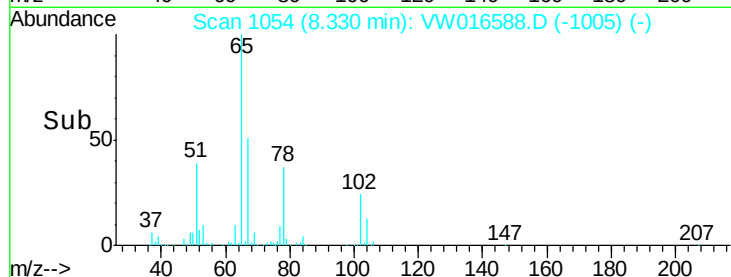
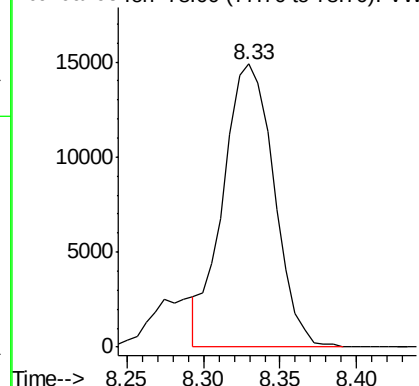
ClientSampleId :

MDL-SOIL-03

Tgt Ion: 78 Resp: 34445



Abundance Ion 78.00 (77.70 to 78.70): VW



#34

Trichloroethene

Concen: 1.130 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Tgt Ion: 95 Resp: 9754

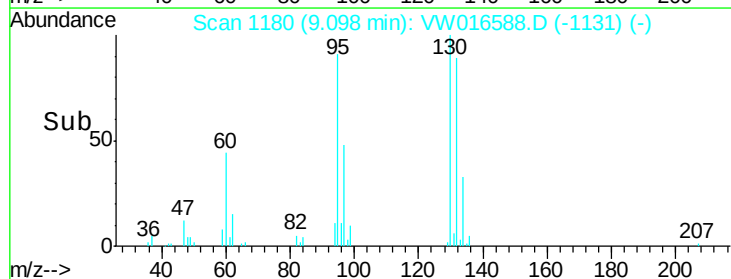
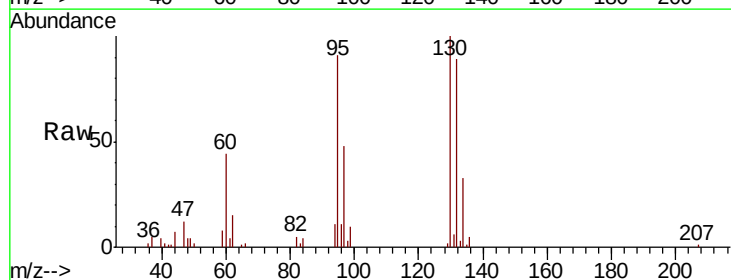
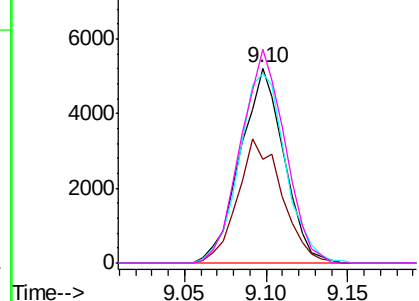
Ion	Ratio	Lower	Upper
95	100		
97	53.1	45.1	83.9
132	97.2	73.8	137.2
130	109.8	78.3	145.5

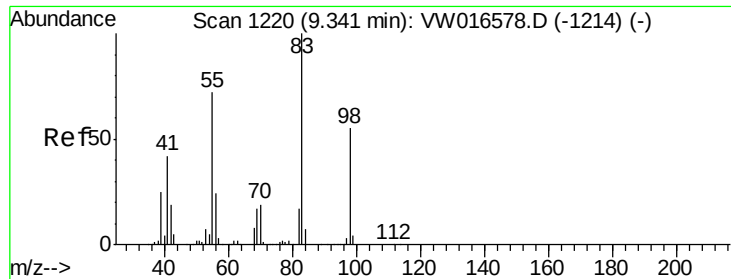
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW

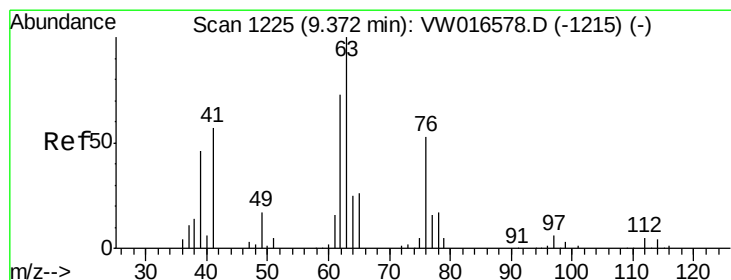
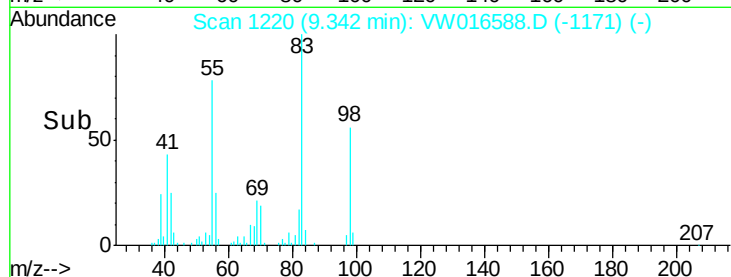
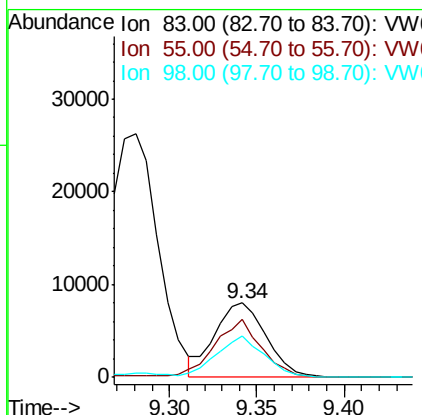
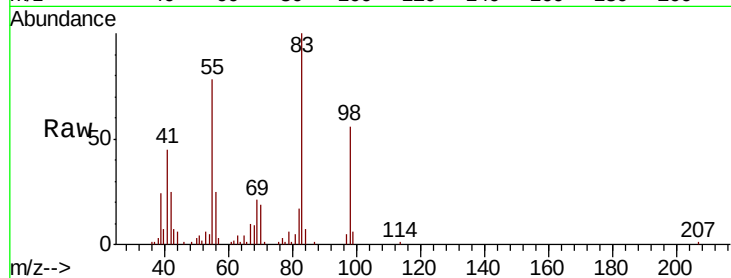




#35
Methylcyclohexane
Concen: 1.143 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

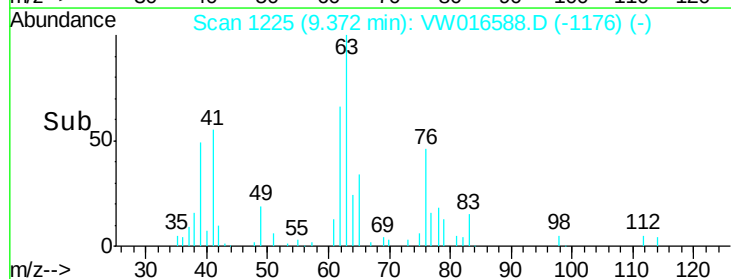
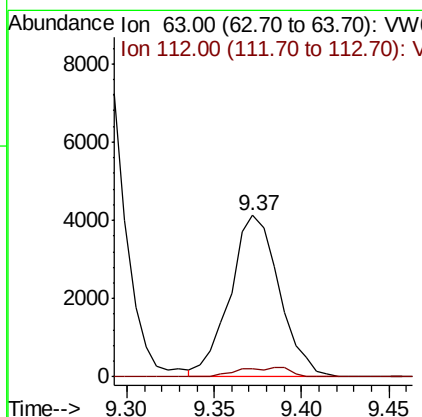
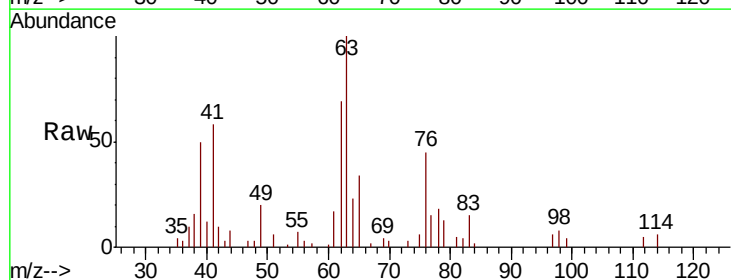
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03

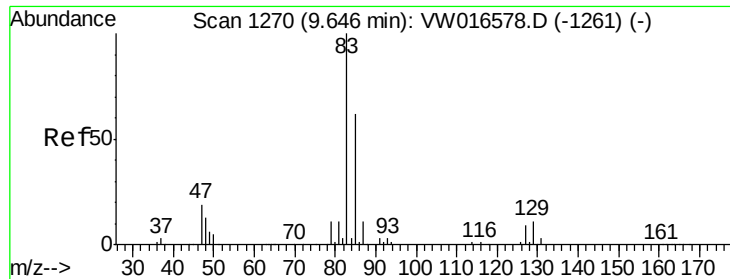
Tot Ion: 83 Resp: 16476
Ion Ratio Lower Upper
83 100
55 70.8 55.9 83.9
98 51.5 41.5 62.3



#37
1,2-Dichloropropane
Concen: 1.179 ug/L
RT: 9.37 min Scan# 1225
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

Tgt Ion: 63 Resp: 8092
Ion Ratio Lower Upper
63 100
112 3.5 4.2 6.4#





#38

Bromodichloromethane

Concen: 1.158 ug/L

RT: 9.65 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03

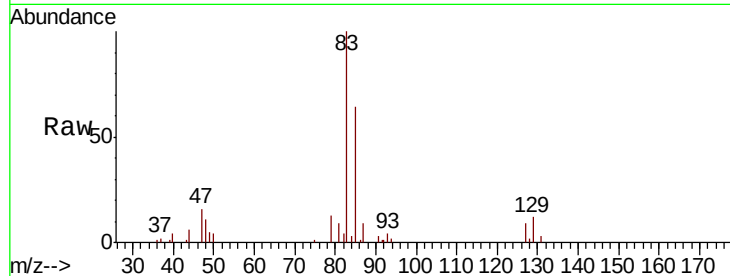
Tot Ion: 83 Resp: 11785

Ion Ratio Lower Upper

83 100

85 64.0 43.7 81.1

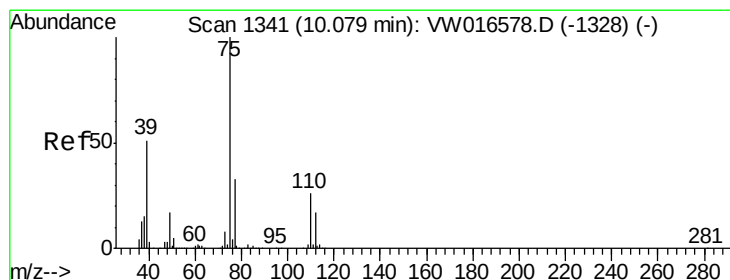
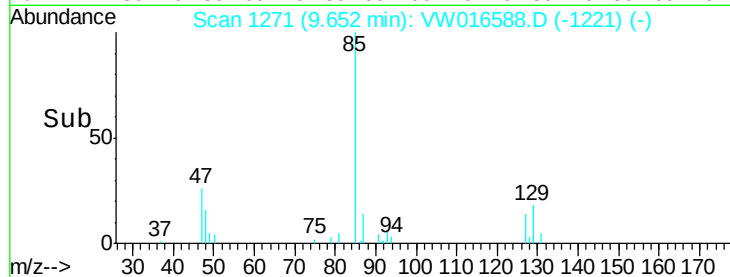
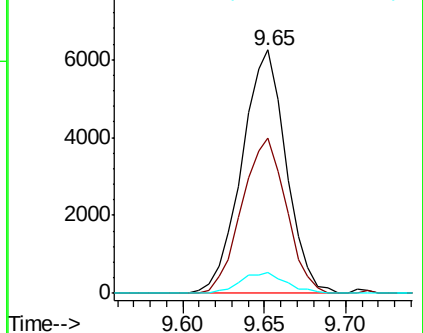
127 8.7 7.4 11.2



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#39

cis-1,3-Dichloropropene

Concen: 1.106 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VW016588.D

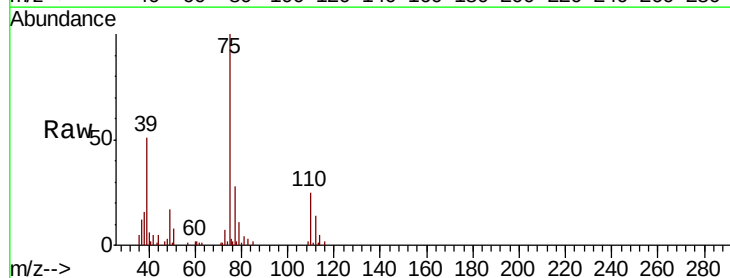
Acq: 18 Sep 2020 16:32

Tgt Ion: 75 Resp: 12954

Ion Ratio Lower Upper

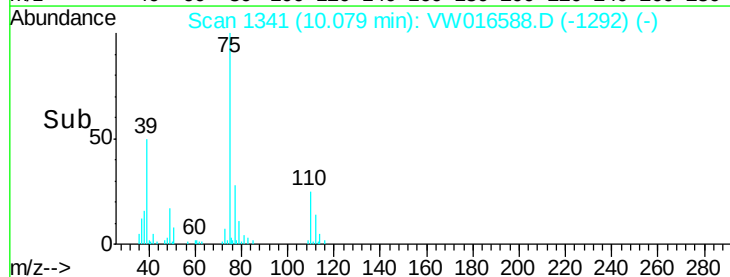
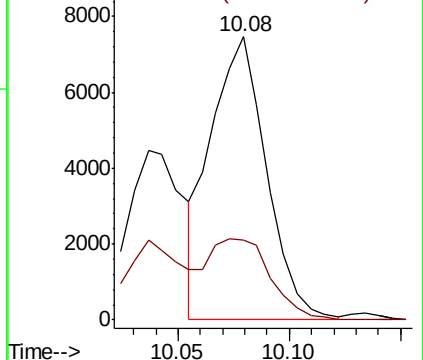
75 100

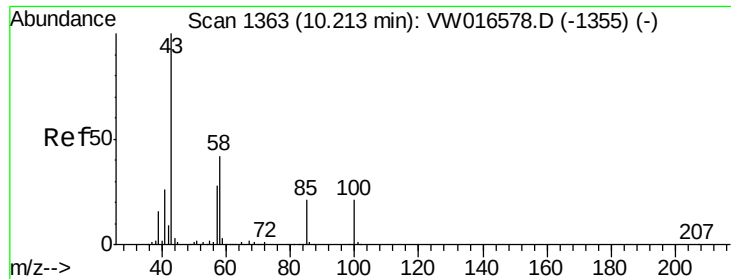
77 28.3 23.0 42.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

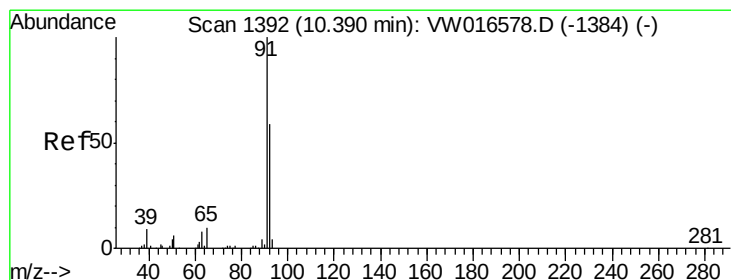
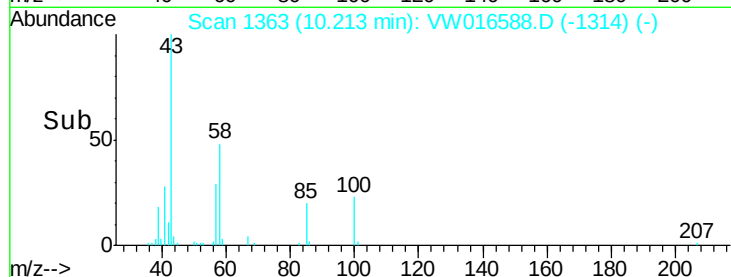
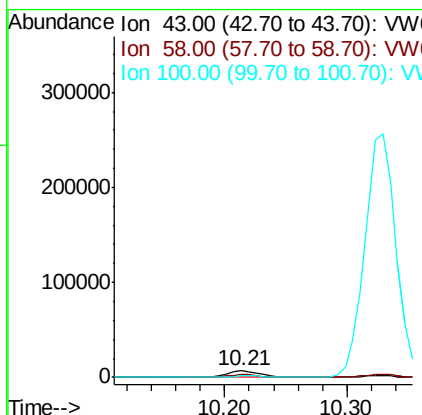
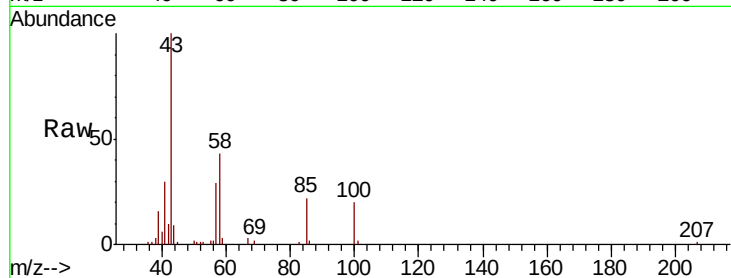




#40
4-Methyl-2-pentanone
Concen: 3.385 ug/L
RT: 10.21 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

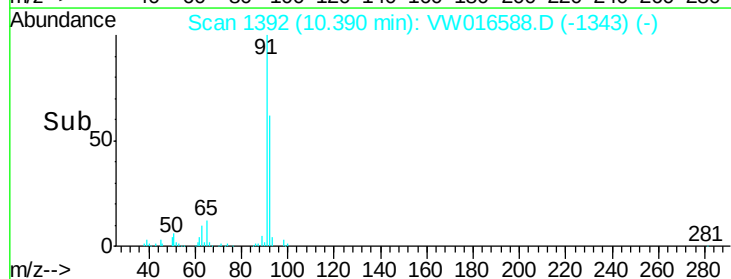
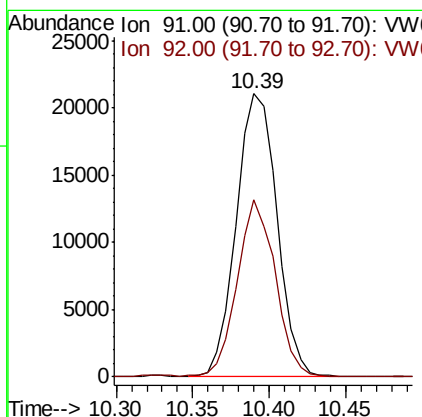
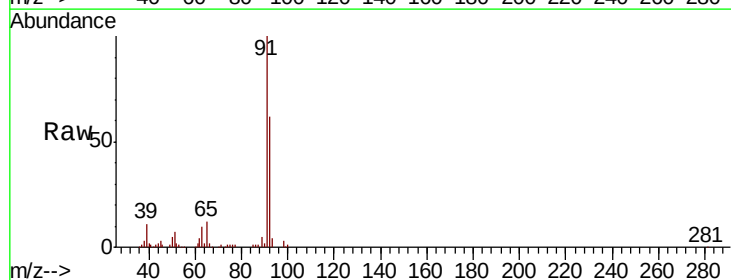
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03

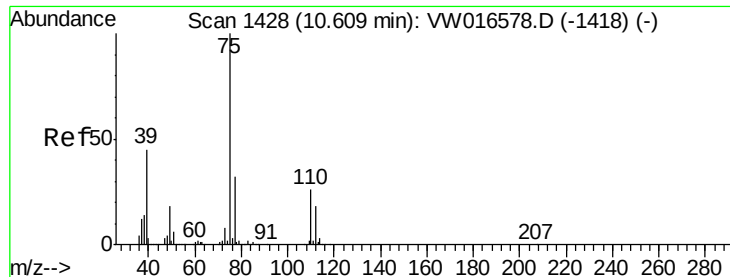
Tot Ion: 43 Resp: 13013
Ion Ratio Lower Upper
43 100
58 39.5 33.0 49.4
100 19.5 16.0 24.0



#42
Toluene
Concen: 1.151 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

Tgt Ion: 91 Resp: 39031
Ion Ratio Lower Upper
91 100
92 62.4 41.1 76.3





#44

trans-1,3-Dichloropropene

Concen: 1.625 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.01 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

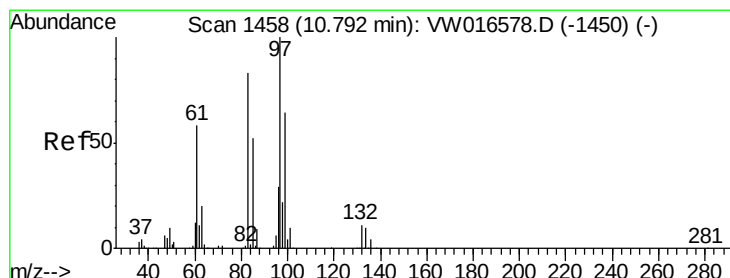
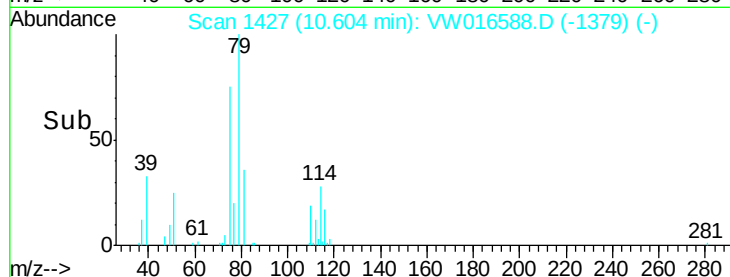
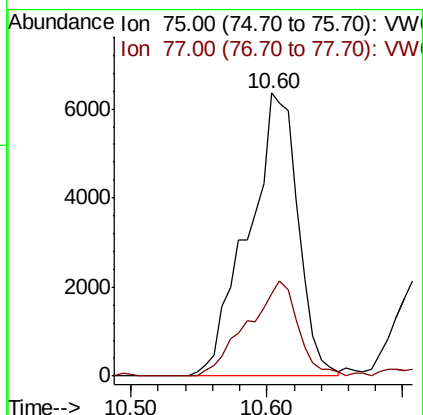
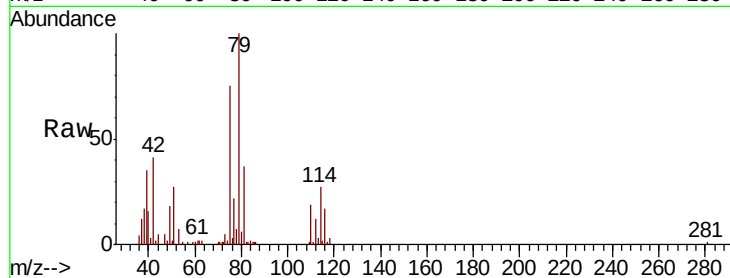
MDL-SOIL-03

Tot Ion: 75 Resp: 16324

Ion Ratio Lower Upper

75 100

77 29.0 22.1 41.1



#45

1,1,2-Trichloroethane

Concen: 1.295 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Tgt Ion: 97 Resp: 7216

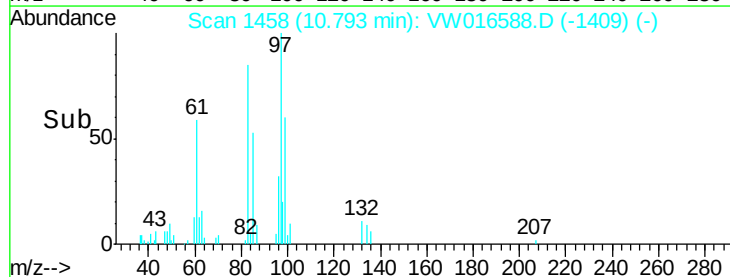
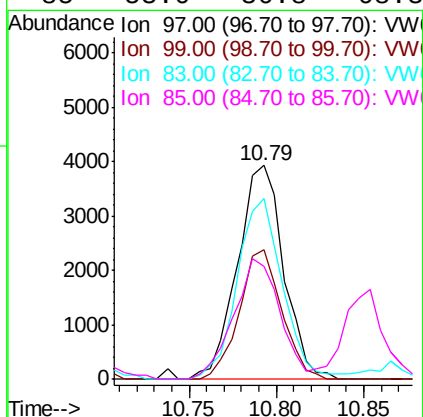
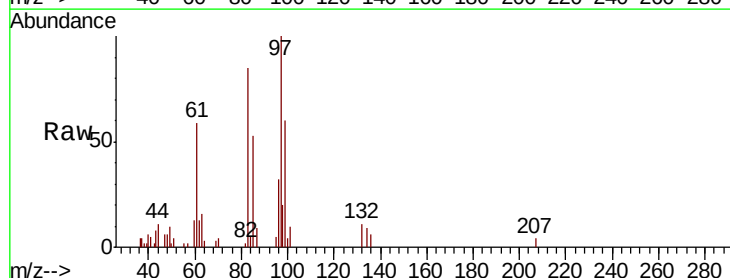
Ion Ratio Lower Upper

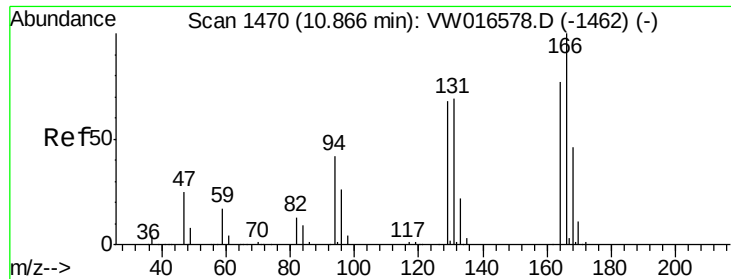
97 100

99 60.3 44.5 82.7

83 84.5 58.4 108.4

85 53.0 36.8 68.3





#46

Tetrachloroethene

Concen: 1.201 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03

Tot Ion:164 Resp: 9355

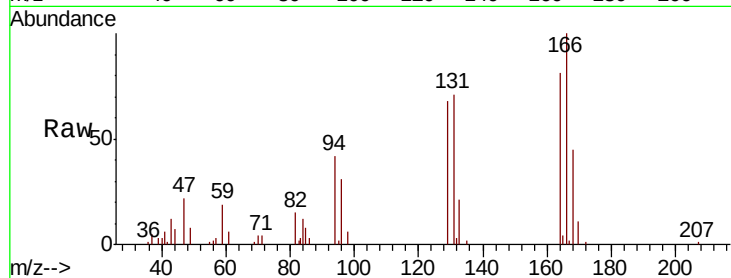
Ion Ratio Lower Upper

164 100

129 84.1 61.4 114.0

131 88.3 62.8 116.6

166 123.5 90.8 168.6



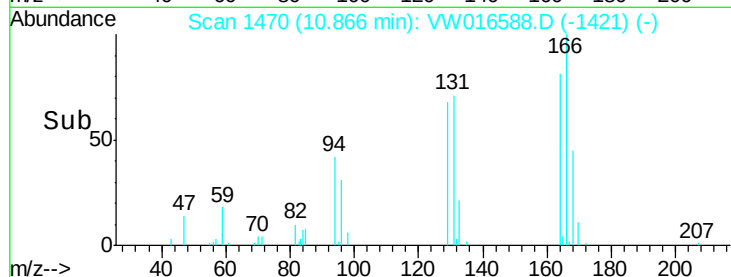
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->



Abundance

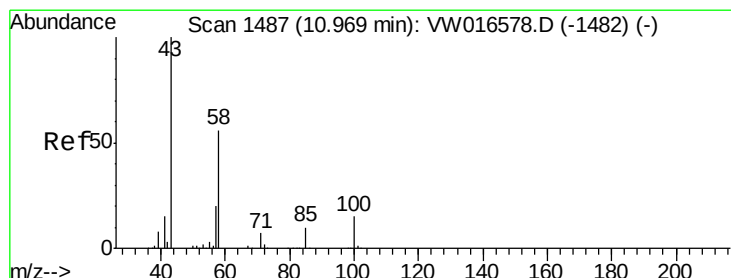
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

Time-->



#48

2-Hexanone

Concen: 2.628 ug/L

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Tgt Ion: 43 Resp: 6283

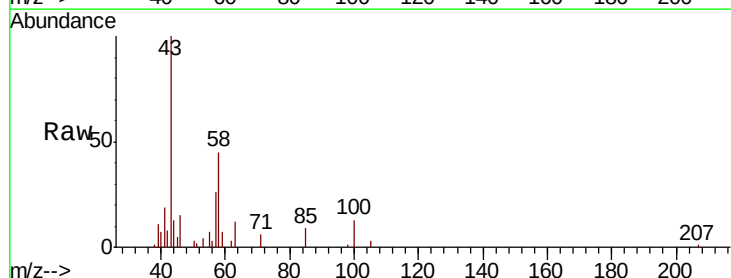
Ion Ratio Lower Upper

43 100

58 57.6 45.9 68.9

57 24.3 16.6 24.8

100 17.0 12.3 18.5



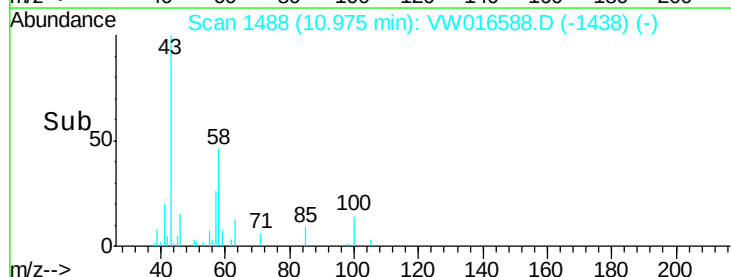
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 57.00 (56.70 to 57.70): V

Ion 100.00 (99.70 to 100.70): V

Time-->



Abundance

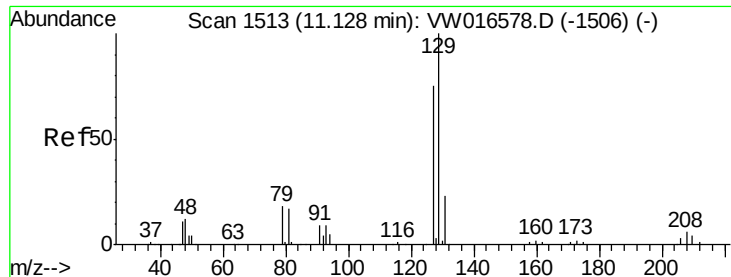
Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 57.00 (56.70 to 57.70): V

Ion 100.00 (99.70 to 100.70): V

Time-->



#49

Dibromochloromethane

Concen: 1.159 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

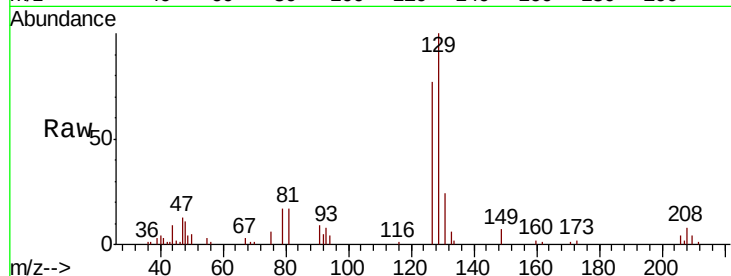
MDL-SOIL-03

Tot Ion:129 Resp: 8477

Ion Ratio Lower Upper

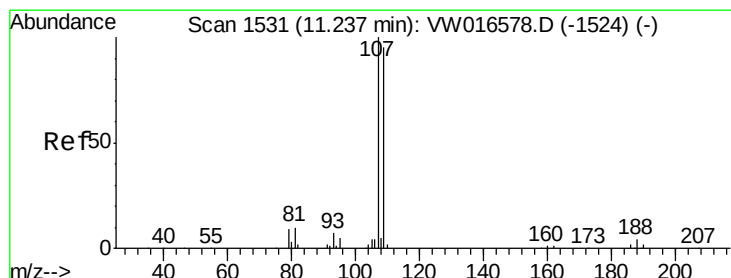
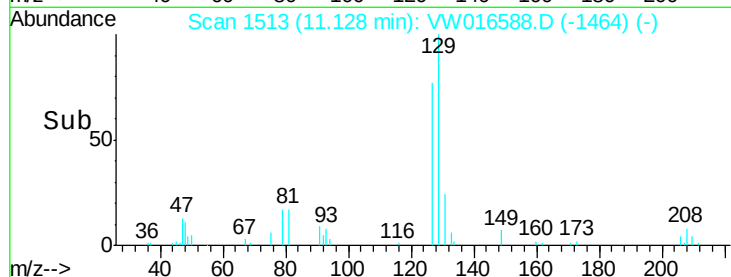
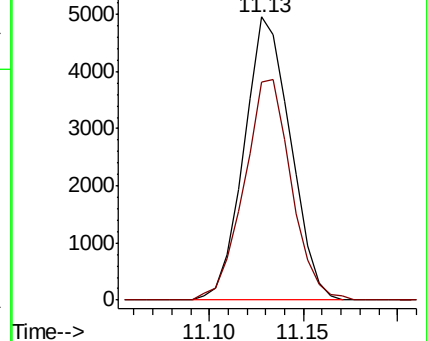
129 100

127 77.0 52.5 97.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#50

1,2-Dibromoethane

Concen: 1.233 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

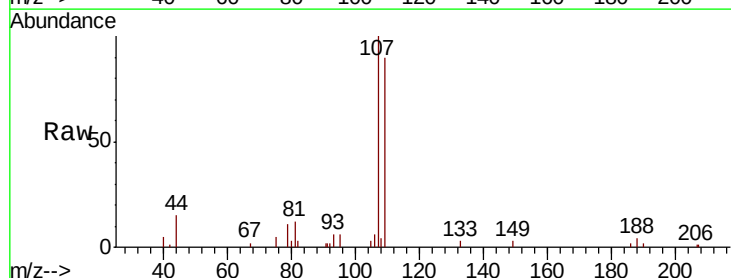
Tgt Ion:107 Resp: 6806

Ion Ratio Lower Upper

107 100

109 90.2 66.2 123.0

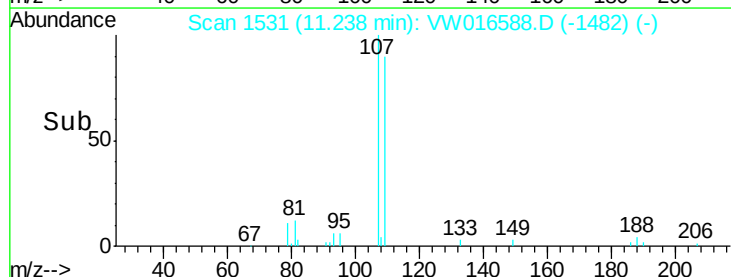
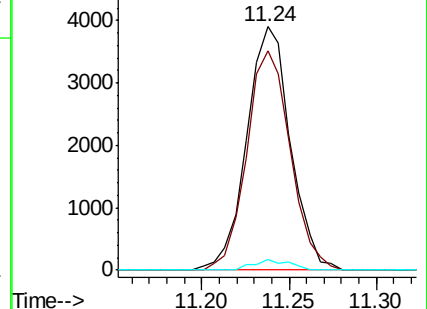
188 4.5 3.3 4.9

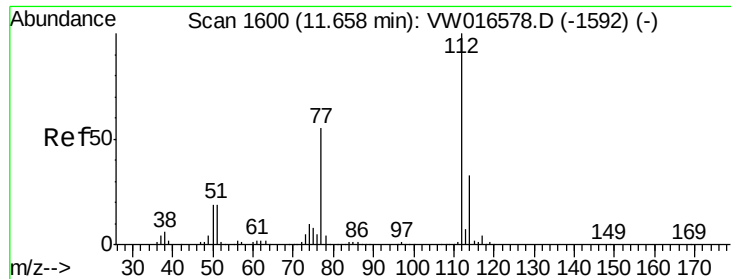


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#51

Chlorobenzene

Concen: 1.161 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03

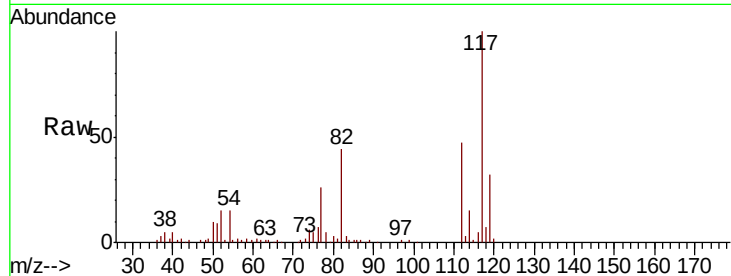
Tot Ion:112 Resp: 26098

Ion Ratio Lower Upper

112 100

114 32.4 22.9 42.5

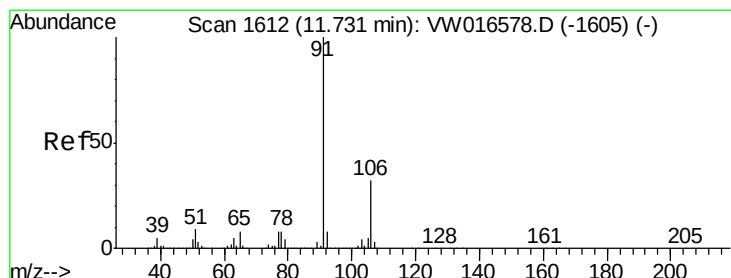
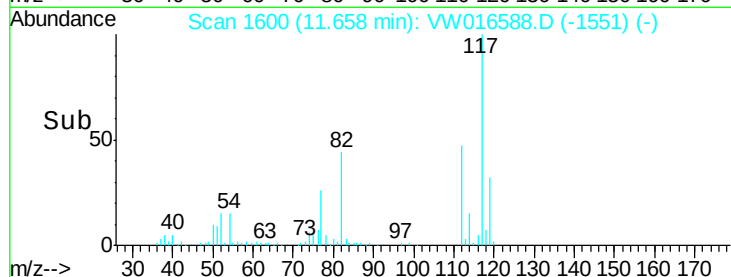
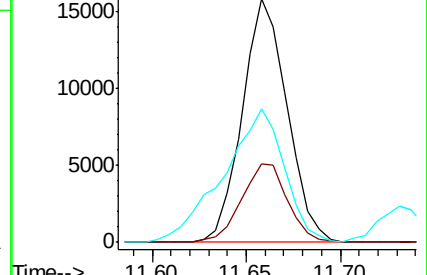
77 55.0 43.8 65.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 1.114 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW016588.D

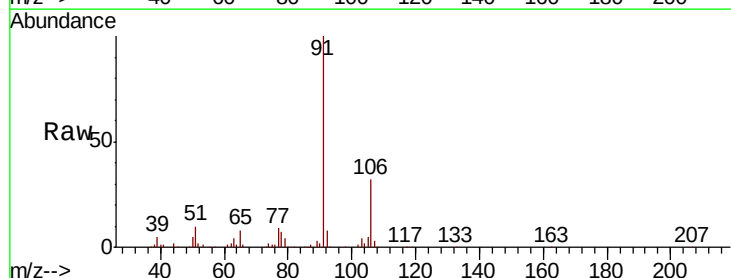
Acq: 18 Sep 2020 16:32

Tgt Ion: 91 Resp: 42521

Ion Ratio Lower Upper

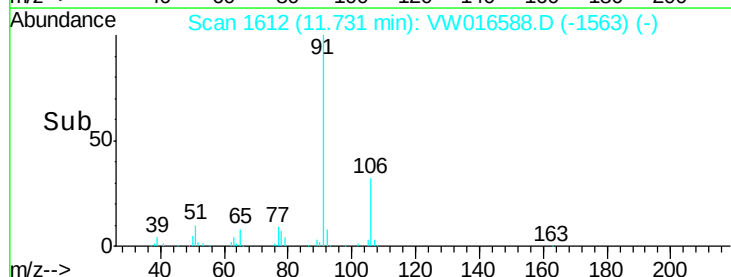
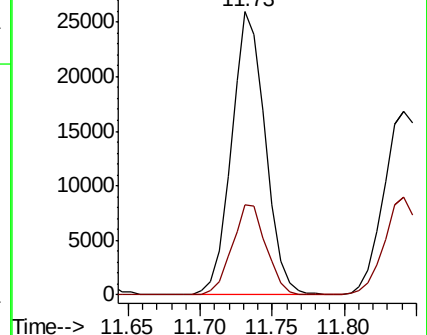
91 100

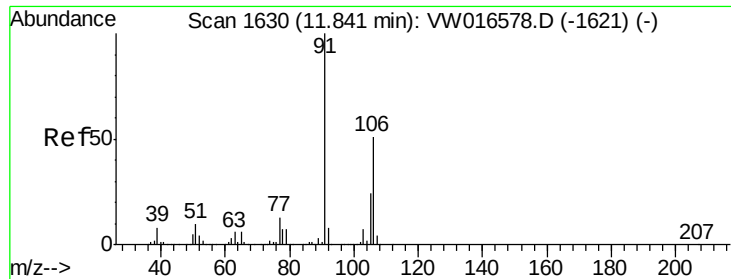
106 31.8 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 1.128 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

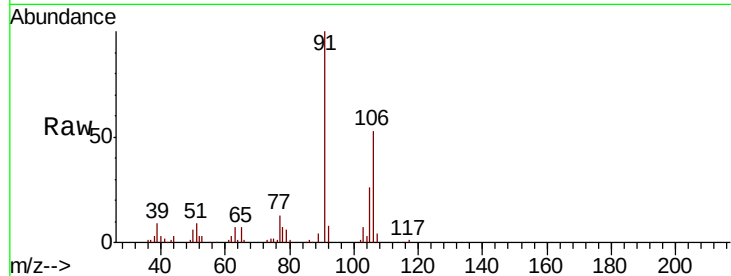
MDL-SOIL-03

Tot Ion:106 Resp: 16768

Ion Ratio Lower Upper

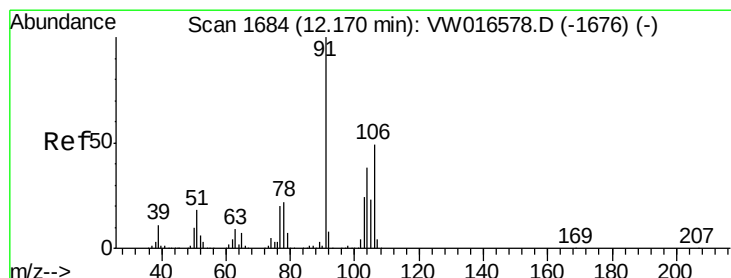
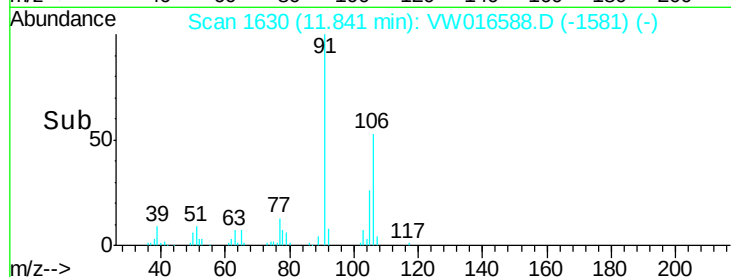
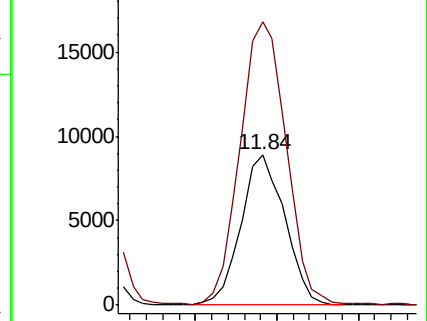
106 100

91 188.1 136.2 252.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#54

o-Xylene

Concen: 1.113 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW016588.D

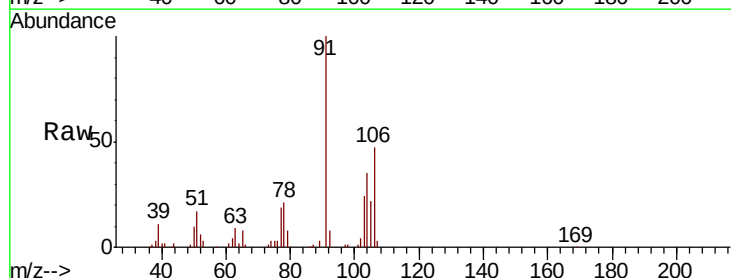
Acq: 18 Sep 2020 16:32

Tgt Ion:106 Resp: 15667

Ion Ratio Lower Upper

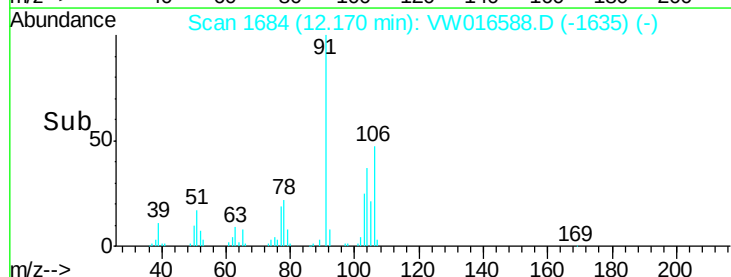
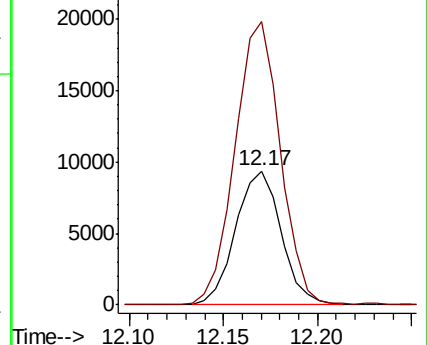
106 100

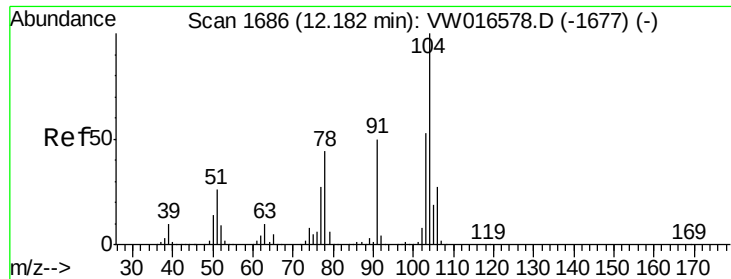
91 211.5 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

Stvrene

Concen: 1.061 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampled :

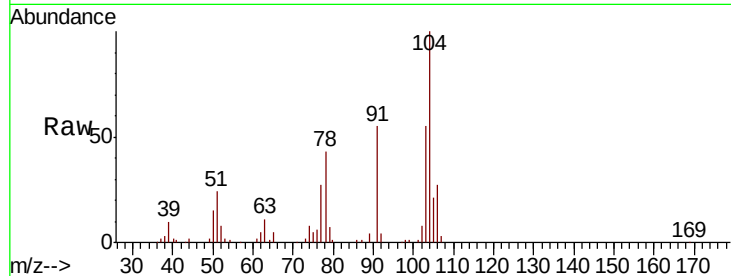
MDL-SOIL-03

Tot Ion:104 Resp: 24861

Ion Ratio Lower Upper

104 100

78 43.3 31.1 57.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

12.18

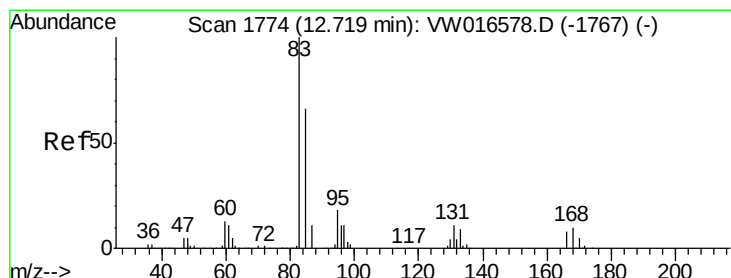
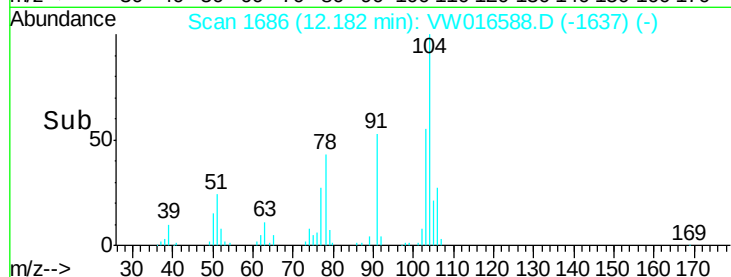
15000

10000

5000

0

Time-->



#57

1,1,2,2-Tetrachloroethane

Concen: 1.363 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

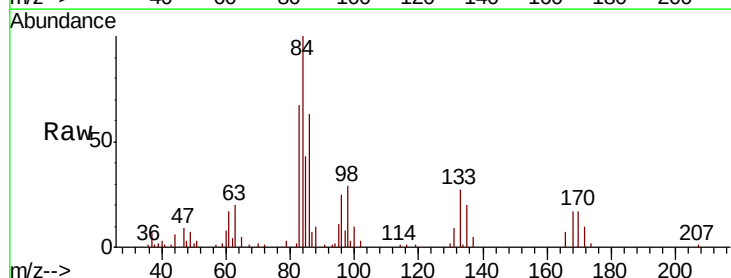
Tgt Ion: 83 Resp: 8179

Ion Ratio Lower Upper

83 100

85 63.8 46.3 85.9

131 13.6 9.3 13.9



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

12.72

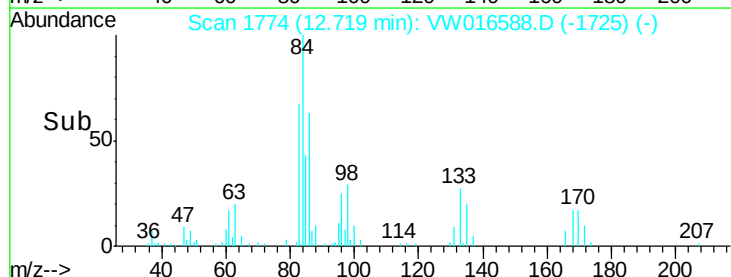
6000

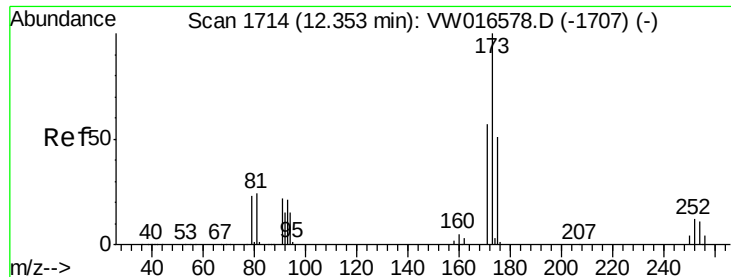
4000

2000

0

Time-->





#59

Bromoform

Concen: 1.123 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03

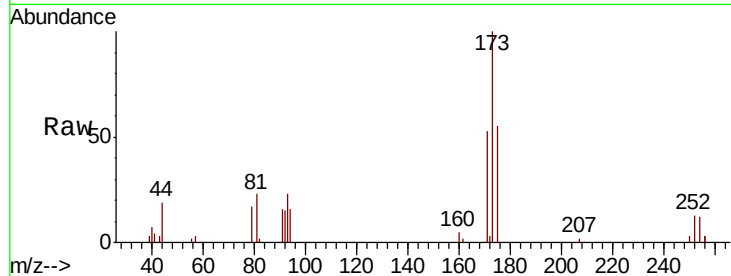
Tot Ion:173 Resp: 4856

Ion Ratio Lower Upper

173 100

175 50.6 39.7 59.5

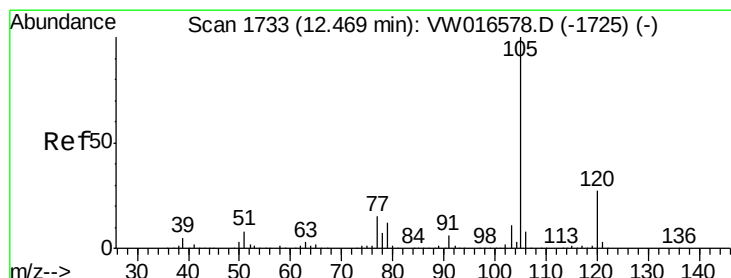
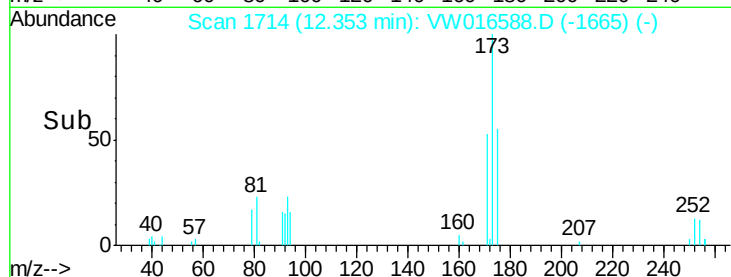
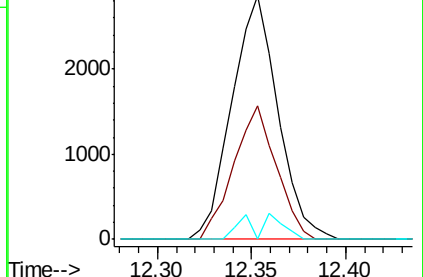
254 4.4 8.2 12.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 1.109 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

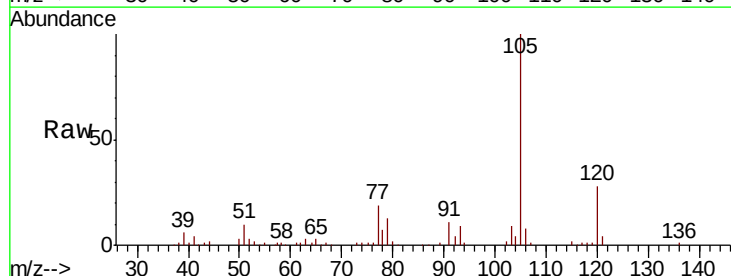
Tgt Ion:105 Resp: 43382

Ion Ratio Lower Upper

105 100

120 27.0 21.8 32.8

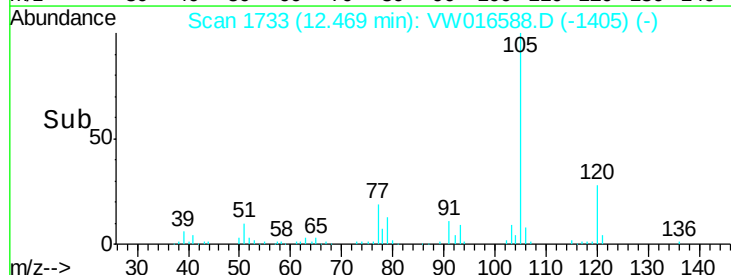
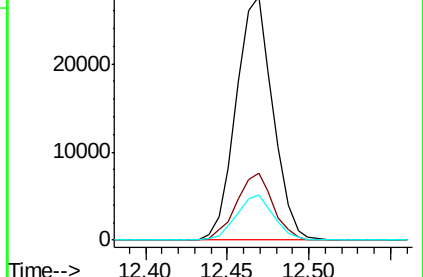
77 18.9 12.1 18.1#

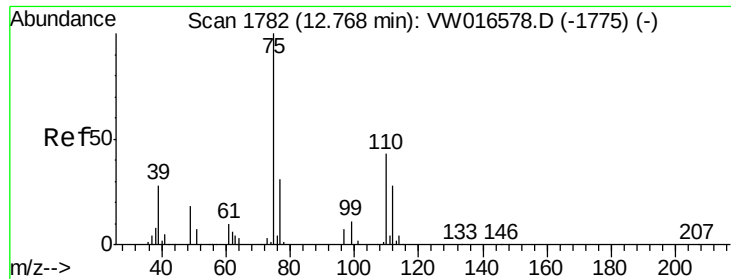


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V

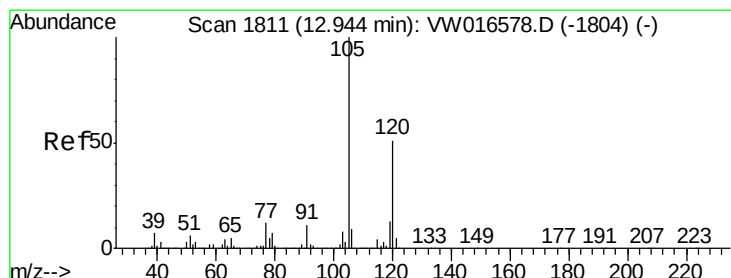
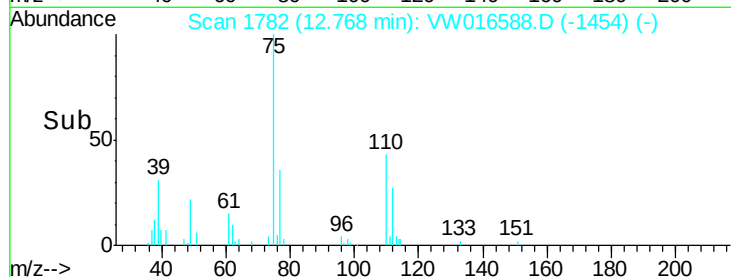
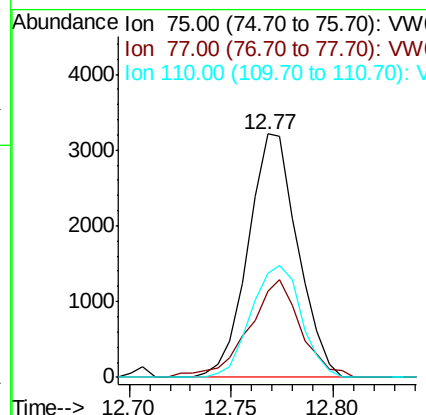
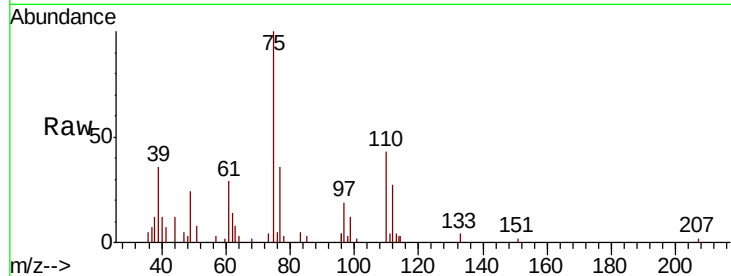




#61
 1,2,3-Trichloropropane
 Concen: 1.233 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

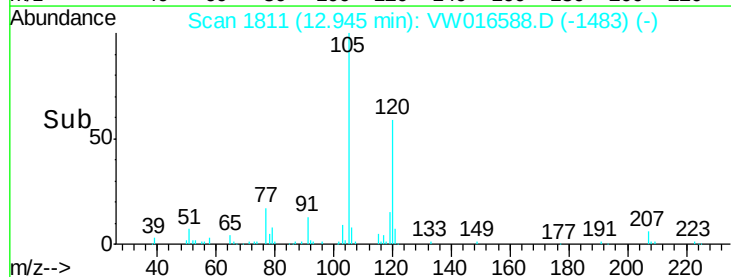
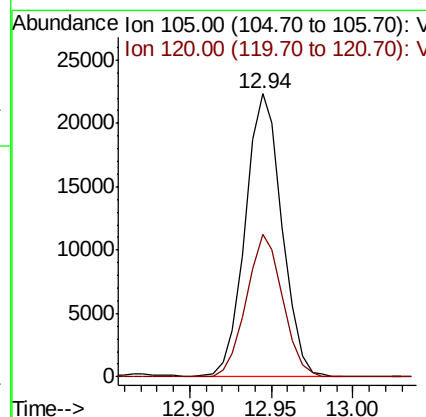
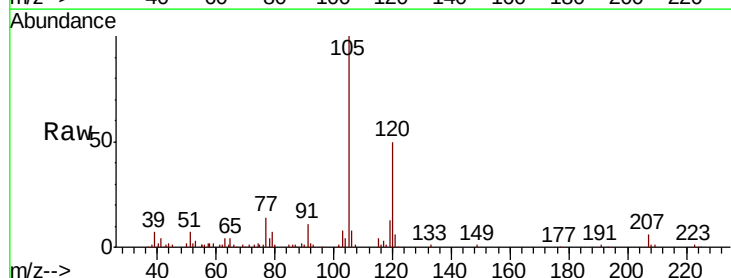
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03

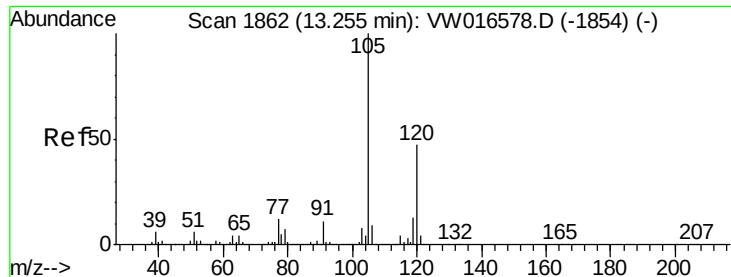
Tot Ion: 75 Resp: 5445
 Ion Ratio Lower Upper
 75 100
 77 41.9 25.8 38.8#
 110 46.2 35.8 53.8



#62
 1,3,5-Trimethylbenzene
 Concen: 1.085 ug/L
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

Tgt Ion: 105 Resp: 34922
 Ion Ratio Lower Upper
 105 100
 120 49.6 39.8 59.8

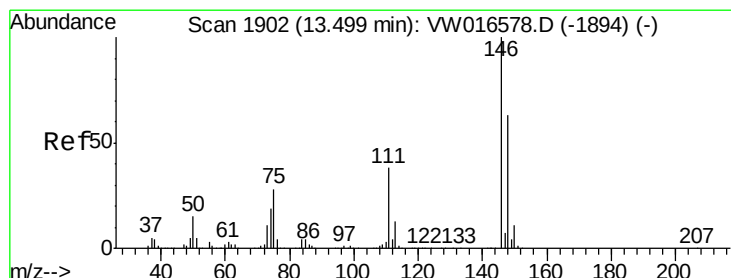
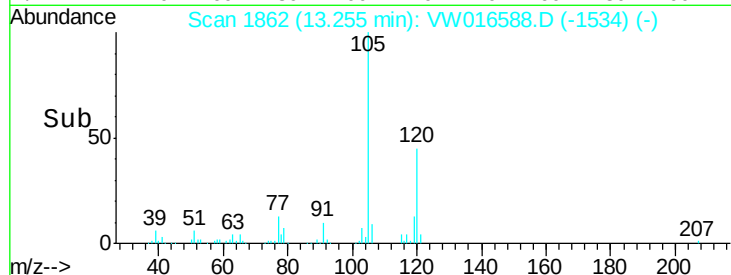
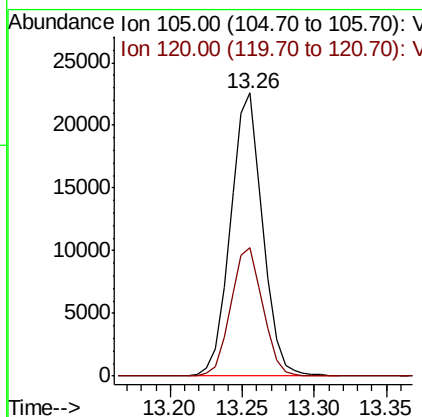
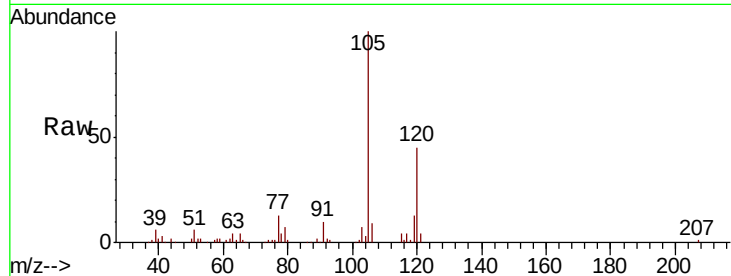




#63
 1,2,4-Trimethylbenzene
 Concen: 1.097 ug/L
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

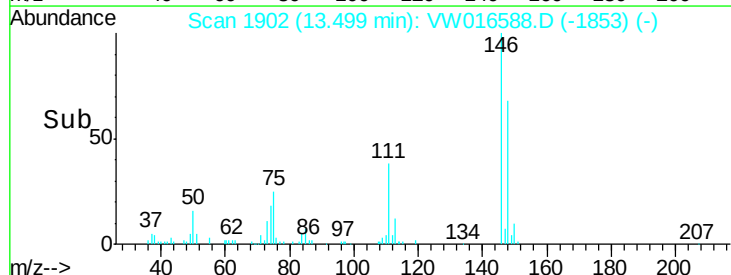
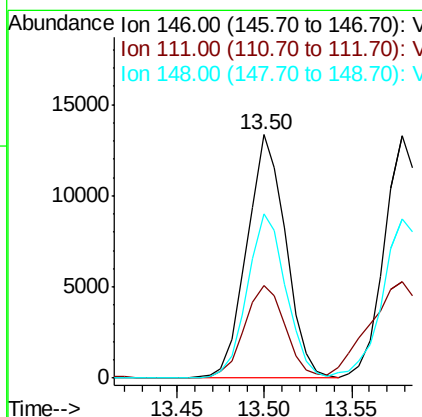
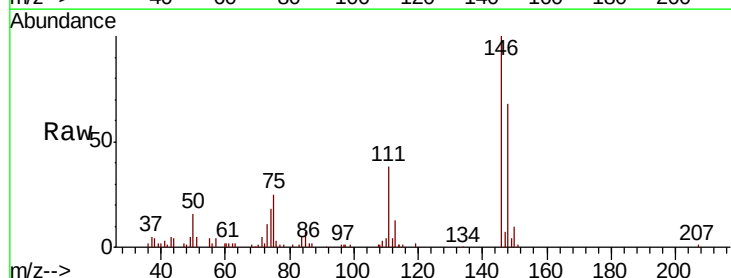
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03

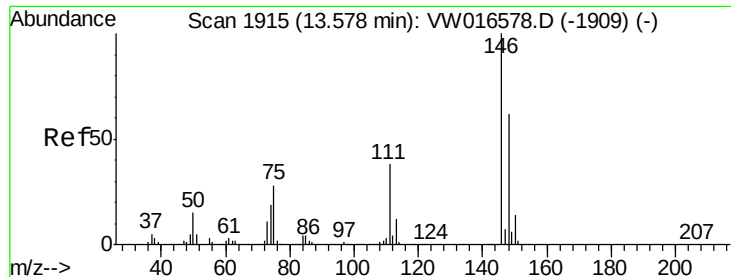
Tot Ion:105 Resp: 35105
 Ion Ratio Lower Upper
 105 100
 120 45.2 36.4 54.6



#64
 1,3-Dichlorobenzene
 Concen: 1.150 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

Tgt Ion:146 Resp: 20642
 Ion Ratio Lower Upper
 146 100
 111 38.1 26.5 49.3
 148 67.6 44.0 81.8

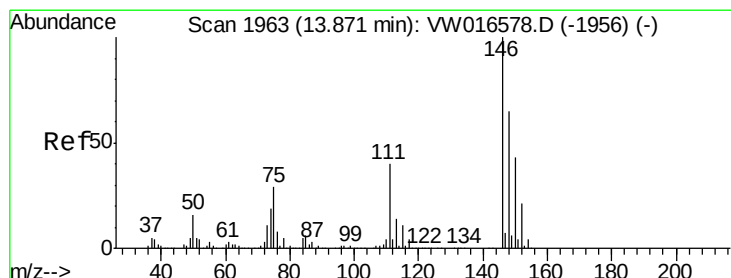
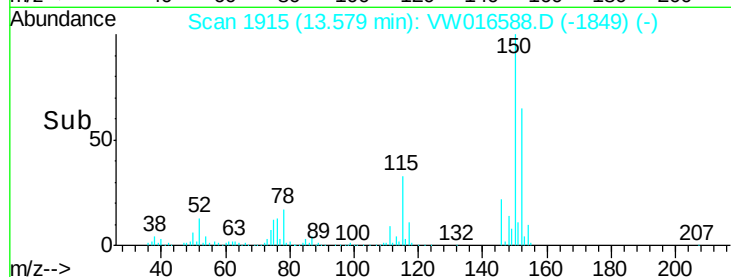
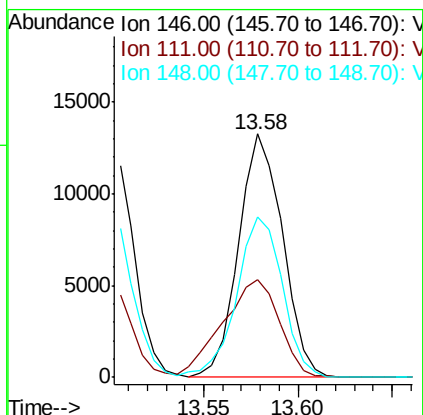
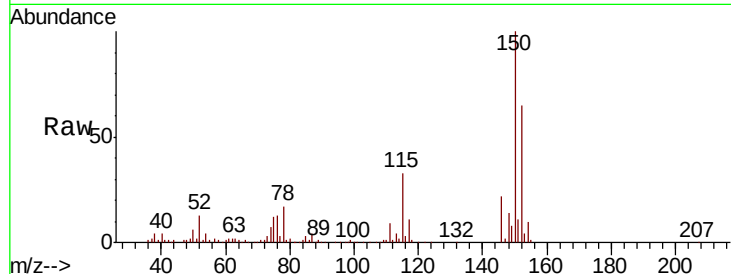




#65
 1,4-Dichlorobenzene
 Concen: 1.219 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

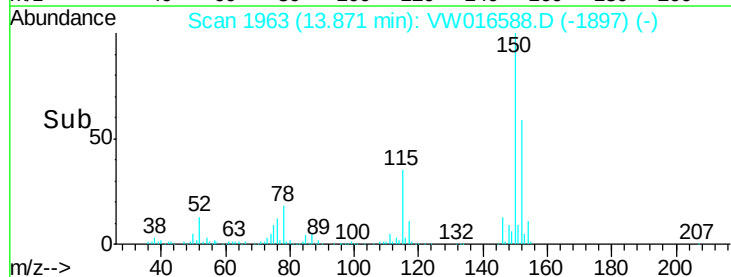
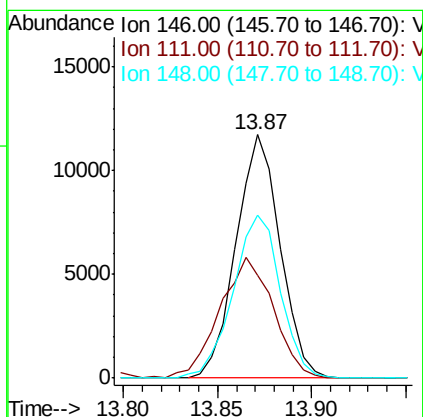
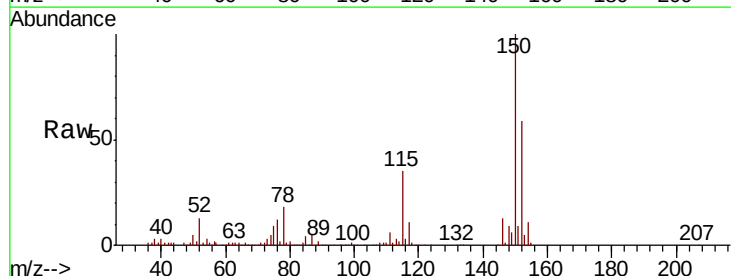
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03

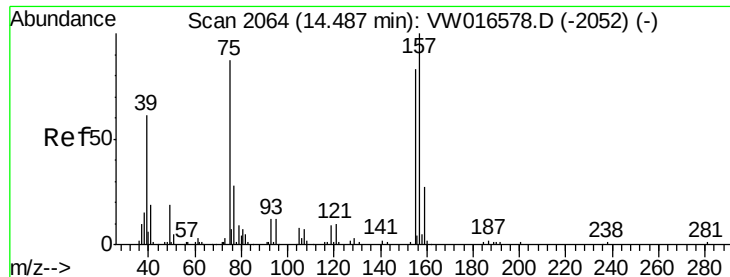
Tot Ion:146 Resp: 21462
 Ion Ratio Lower Upper
 146 100
 111 40.0 26.5 49.3
 148 65.9 43.8 81.4



#67
 1,2-Dichlorobenzene
 Concen: 1.198 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

Tgt Ion:146 Resp: 19017
 Ion Ratio Lower Upper
 146 100
 111 42.2 32.4 48.6
 148 67.1 52.2 78.2





#68

1,2-Dibromo-3-chloropropane

Concen: 1.310 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Instrument :

MSVOA_W

ClientSampled :

MDL-SOIL-03

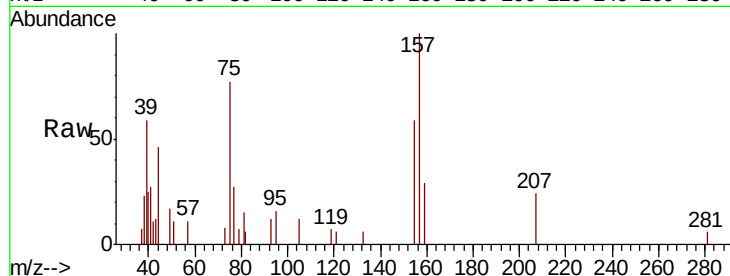
Tot Ion: 75 Resp: 1359

Ion Ratio Lower Upper

75 100

155 75.7 76.6 115.0#

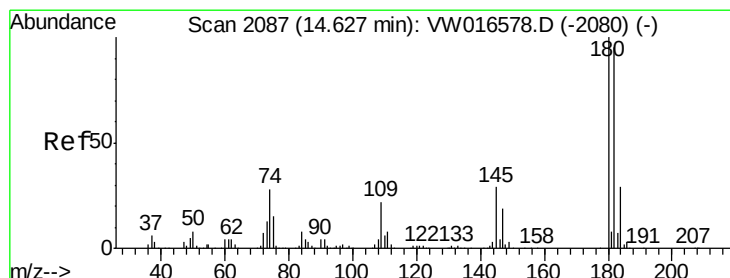
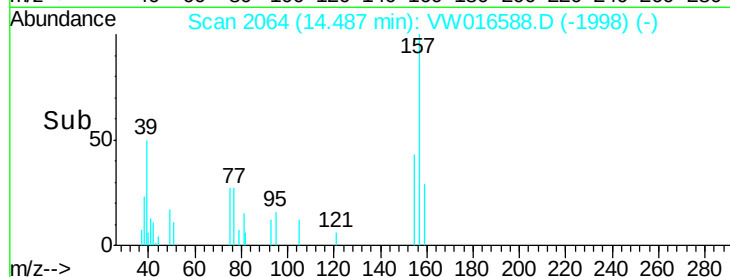
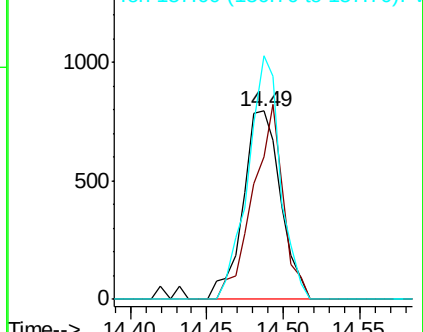
157 129.2 92.0 138.0



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#69

1,3,5-Trichlorobenzene

Concen: 1.136 ug/L

RT: 14.63 min Scan# 2088

Delta R.T. 0.01 min

Lab File: VW016588.D

Acq: 18 Sep 2020 16:32

Tgt Ion: 180 Resp: 15047

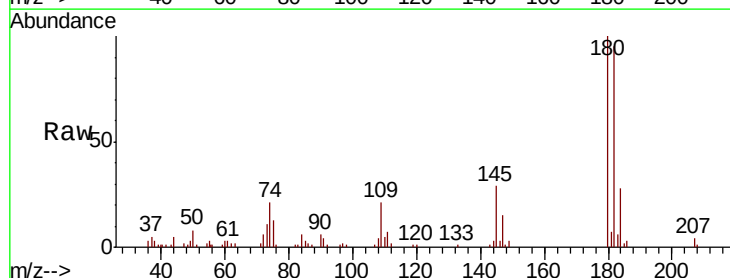
Ion Ratio Lower Upper

180 100

182 91.5 79.0 118.4

184 30.8 24.6 36.8

145 29.2 23.2 34.8

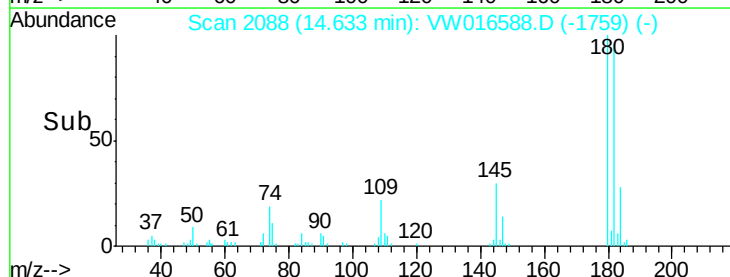
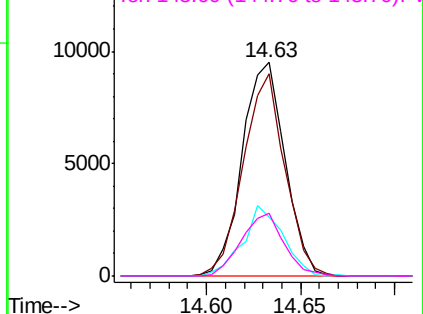


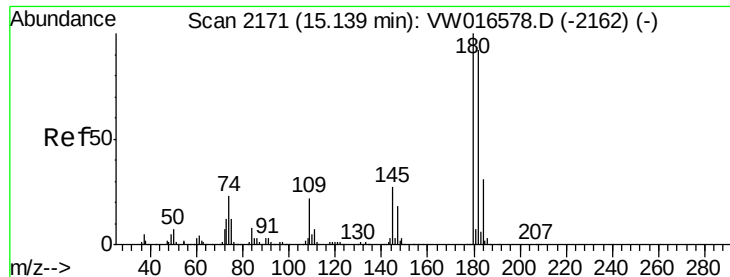
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V

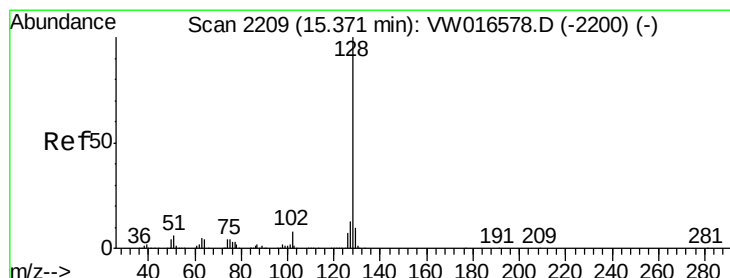
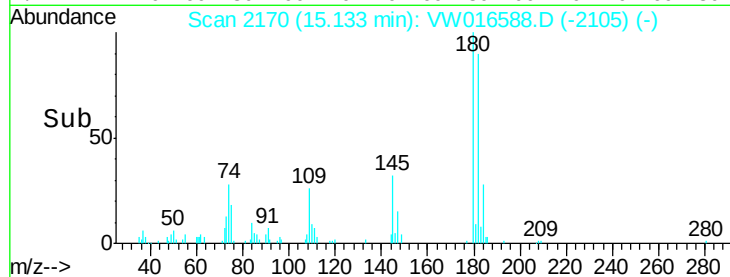
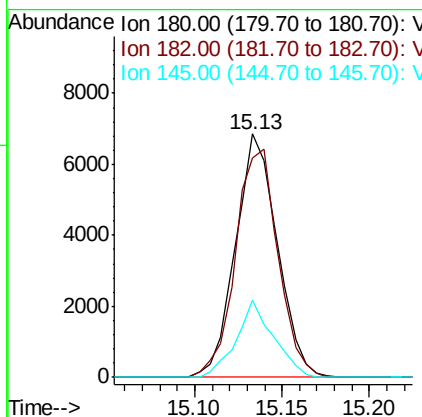
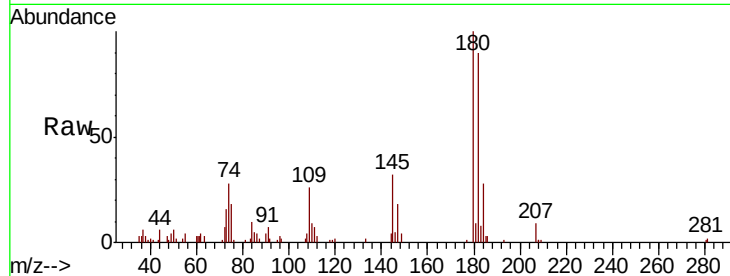




#70
1,2,4-trichlorobenzene
Concen: 1.064 ug/L
RT: 15.13 min Scan# 2170
Delta R.T. -0.01 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

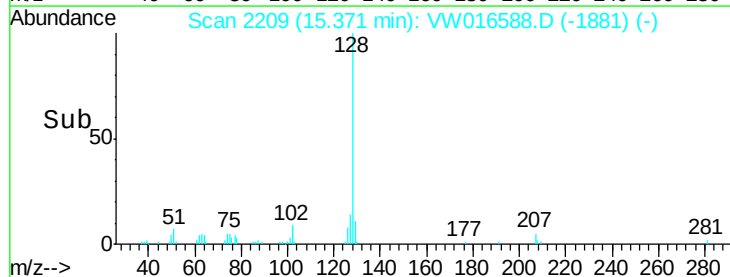
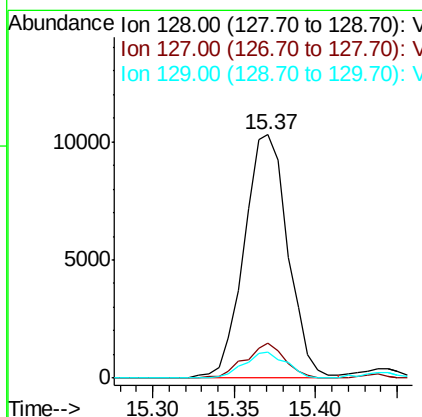
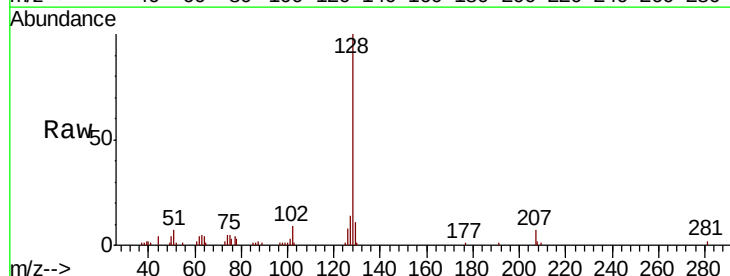
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03

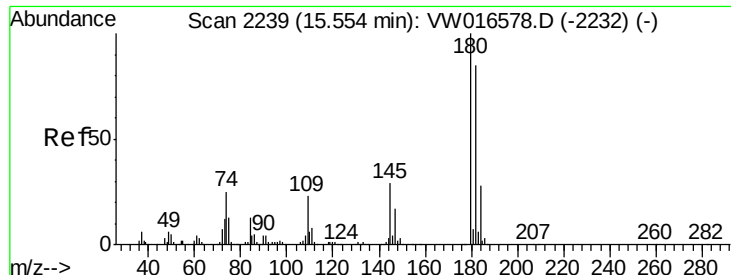
Tot Ion:180 Resp: 11380
Ion Ratio Lower Upper
180 100
182 95.6 76.1 114.1
145 28.3 24.1 36.1



#71
Naphthalene
Concen: 1.071 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW016588.D
Acq: 18 Sep 2020 16:32

Tgt Ion:128 Resp: 19230
Ion Ratio Lower Upper
128 100
127 13.1 10.6 16.0
129 10.3 9.0 13.4

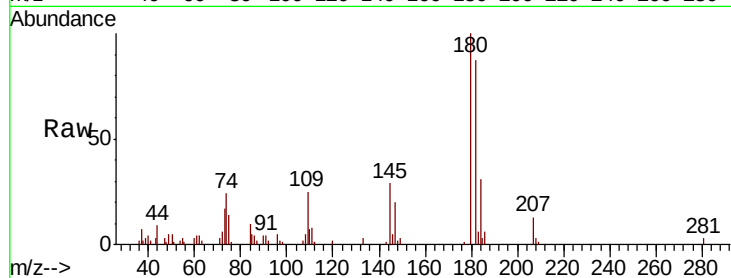




#72
 1,2,3-Trichlorobenzene
 Concen: 1.146 ug/L
 RT: 15.55 min Scan# 2239
 Delta R.T. 0.00 min
 Lab File: VW016588.D
 Acq: 18 Sep 2020 16:32

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	75.5	113.3
145	30.0	24.3	36.5



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

