

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019234.D
 Acq On : 03 Nov 2020 14:24
 Operator : SY/MD
 Sample : L4485-12
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Quant Time: Nov 04 07:14:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 04 07:03:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	239601	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	234728	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	119057	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	84952	45.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.88%
7) Chloroethane-d5	1.58	69	73385	50.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.30%
11) 1,1-Dichloroethene-d2	2.12	63	136654	39.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.84%
21) 2-Butanone-d5	3.91	46	114129	111.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.94%
24) Chloroform-d	4.38	84	167873	48.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.02%
26) 1,2-Dichloroethane-d4	5.06	65	120268	49.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.76%
32) Benzene-d6	5.07	84	315571	48.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.38%
36) 1,2-Dichloropropane-d6	6.09	67	95051	49.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.24%
41) Toluene-d8	7.33	98	285294	47.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.50%
43) trans-1,3-Dichloropropene-	7.64	79	53636	48.95	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.90%
47) 2-Hexanone-d5	8.11	63	72889	97.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.02%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	120829	46.86	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.72%
66) 1,2-Dichlorobenzene-d4	11.65	152	122494	51.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.86%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	3672	2.502	ug/L	99
3) Chloromethane	1.25	50	3998	2.616	ug/L	99
5) Vinyl chloride	1.32	62	4307	2.707	ug/L #	61
6) Bromomethane	1.53	94	2831	2.648	ug/L	91
8) Chloroethane	1.60	64	2981	2.865	ug/L	98
9) Trichlorofluoromethane	1.77	101	6643	2.522	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4292	3.430	ug/L	90
12) 1,1-Dichloroethene	2.13	96	4247	3.283	ug/L #	1
13) Acetone	2.20	43	4965	6.403	ug/L	95
14) Carbon disulfide	2.31	76	9668	2.603	ug/L	96
15) Methyl Acetate	2.46	43	3772	2.511	ug/L	100
16) Methylene chloride	2.52	84	4294	2.793	ug/L	96
17) trans-1,2-Dichloroethene	2.78	96	3752	2.674	ug/L	95
18) Methyl tert-butyl Ether	2.79	73	11651	2.362	ug/L	96
19) 1,1-Dichloroethane	3.22	63	6582	2.394	ug/L	96
20) cis-1,2-Dichloroethene	3.94	96	2125	1.370	ug/L	97
22) 2-Butanone	4.02	43	2166	2.201	ug/L #	68

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

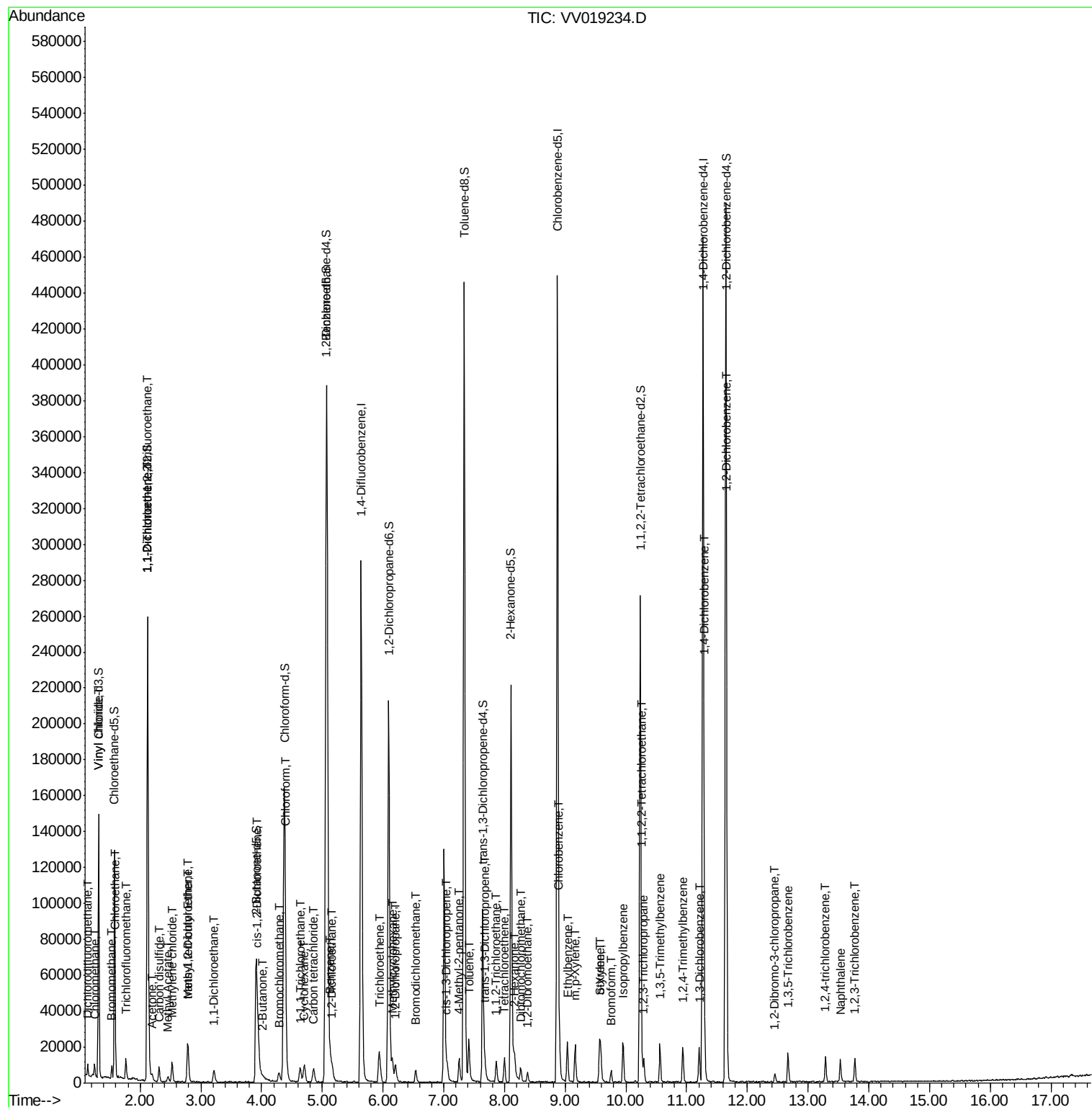
23) Bromochloromethane	4.28	128	1084	1.270	ug/L #	92
25) Chloroform	4.40	83	8720	2.958	ug/L	85
27) 1,2-Dichloroethane	5.16	62	6260	2.498	ug/L #	85
29) Cyclohexane	4.70	56	4799	2.389	ug/L	96
30) 1,1,1-Trichloroethane	4.64	97	6705	2.463	ug/L	97
31) Carbon tetrachloride	4.86	117	5594	2.380	ug/L	97
33) Benzene	5.13	78	13947	2.391	ug/L	100
34) Trichloroethene	5.95	95	3993	2.519	ug/L	86
35) Methylcyclohexane	6.15	83	4994	2.603	ug/L	95
37) 1,2-Dichloropropane	6.21	63	3859	2.479	ug/L #	84
38) Bromodichloromethane	6.54	83	4929	2.200	ug/L	97
39) cis-1,3-Dichloropropene	7.05	75	5155	2.069	ug/L	91
40) 4-Methyl-2-pentanone	7.25	43	9070	4.337	ug/L	97
42) Toluene	7.41	91	17096	2.711	ug/L	98
44) trans-1,3-Dichloropropene	7.68	75	6124	2.399	ug/L	89
45) 1,1,2-Trichloroethane	7.87	97	3772	2.451	ug/L	94
46) Tetrachloroethene	8.00	164	3109	2.404	ug/L	96
48) 2-Hexanone	8.17	43	10510	6.647	ug/L #	82
49) Dibromochloromethane	8.27	129	4372	2.382	ug/L	99
50) 1,2-Dibromoethane	8.38	107	3846	2.411	ug/L #	84
51) Chlorobenzene	8.90	112	10291	2.440	ug/L	98
52) Ethylbenzene	9.04	91	15420	2.217	ug/L	94
53) m,p-Xylene	9.16	106	5990	2.300	ug/L	96
54) o-Xylene	9.57	106	5540	2.158	ug/L	97
55) Styrene	9.59	104	9340	2.044	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.26	83	5847	2.512	ug/L #	98
59) Bromoform	9.75	173	2820	2.134	ug/L #	91
60) Isopropylbenzene	9.95	105	14304	2.292	ug/L	99
61) 1,2,3-Trichloropropane	10.29	75	4572	2.472	ug/L	98
62) 1,3,5-Trimethylbenzene	10.56	105	11202	2.155	ug/L	97
63) 1,2,4-Trimethylbenzene	10.94	105	10358	2.037	ug/L	94
64) 1,3-Dichlorobenzene	11.21	146	8221	2.519	ug/L	90
65) 1,4-Dichlorobenzene	11.29	146	8587	2.543	ug/L	89
67) 1,2-Dichlorobenzene	11.67	146	8653	2.591	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.45	75	1411	2.615	ug/L #	85
69) 1,3,5-Trichlorobenzene	12.67	180	5547	2.368	ug/L	97
70) 1,2,4-trichlorobenzene	13.29	180	4821	2.187	ug/L	99
71) Naphthalene	13.53	128	10525	1.693	ug/L	97
72) 1,2,3-Trichlorobenzene	13.77	180	4496	2.058	ug/L	99

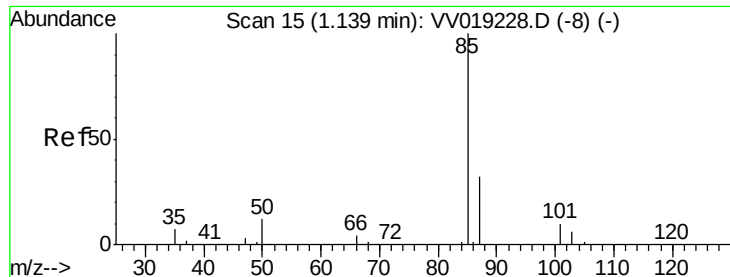
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.502 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

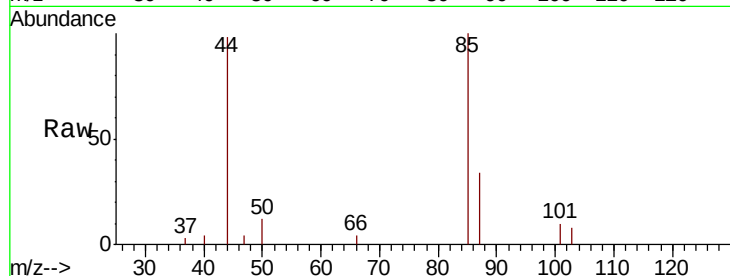
MDL-WATER-05

Tot Ion: 85 Resp: 3672

Ion Ratio Lower Upper

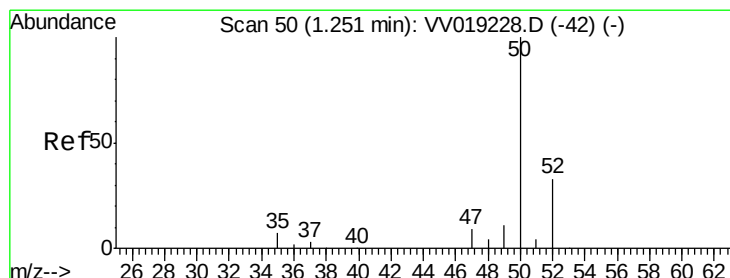
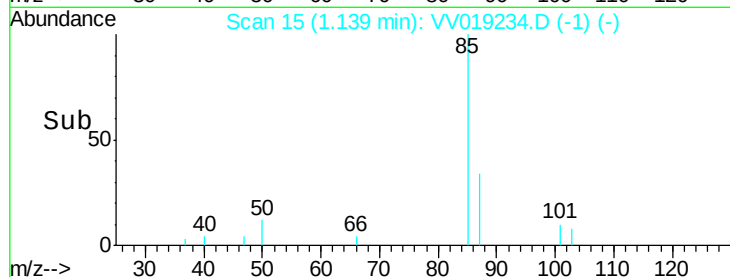
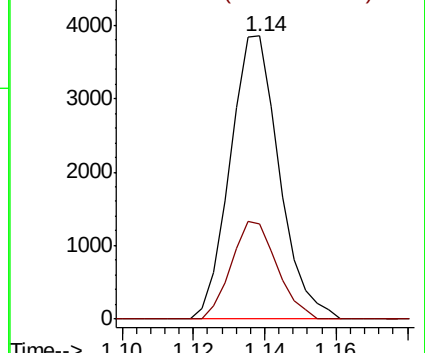
85 100

87 32.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 2.616 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019234.D

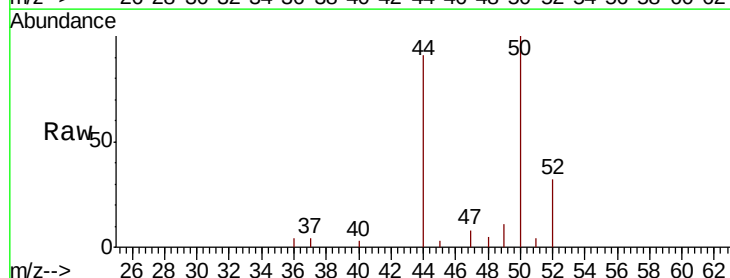
Acq: 03 Nov 2020 14:24

Tgt Ion: 50 Resp: 3998

Ion Ratio Lower Upper

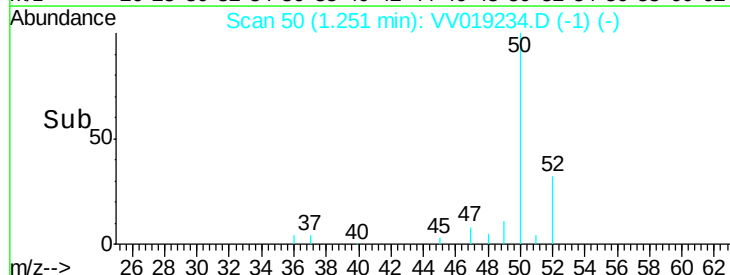
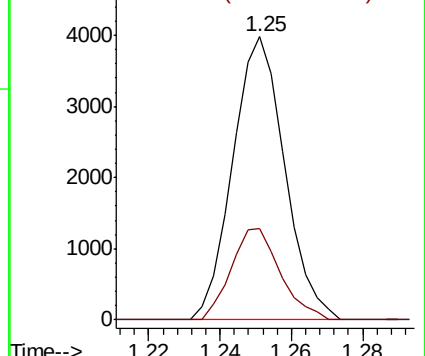
50 100

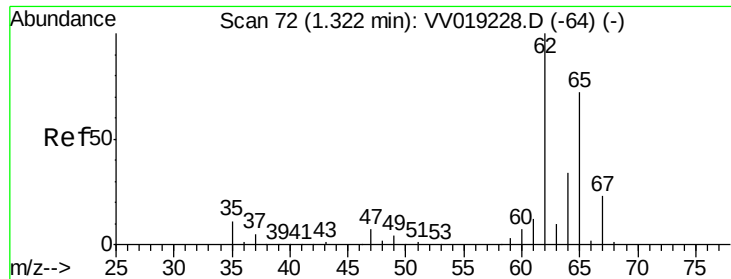
52 32.1 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.707 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

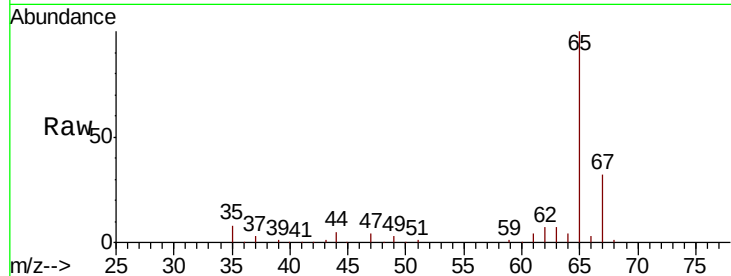
MDL-WATER-05

Tot Ion: 62 Resp: 4307

Ion Ratio Lower Upper

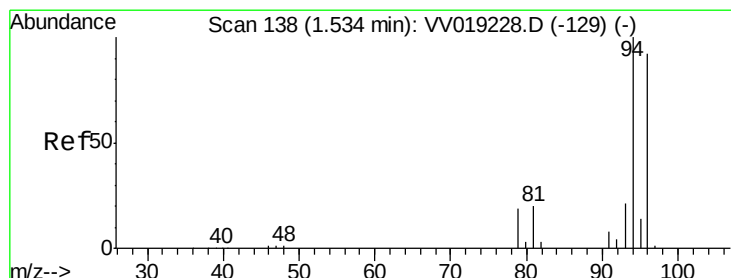
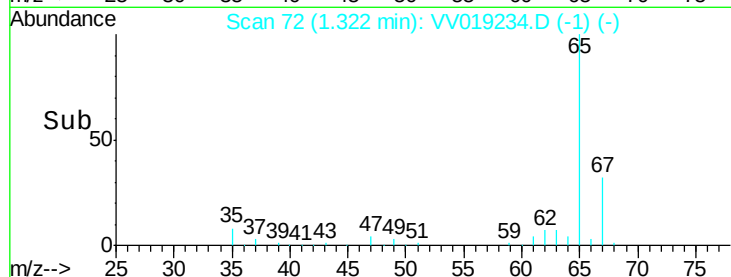
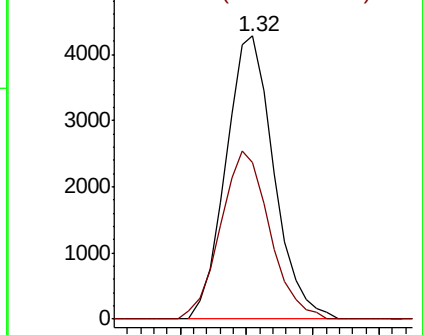
62 100

64 55.3 23.3 43.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.648 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019234.D

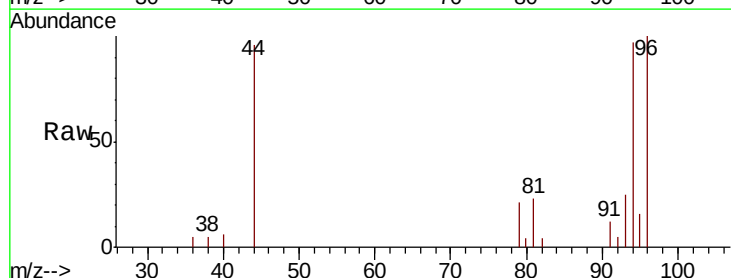
Acq: 03 Nov 2020 14:24

Tgt Ion: 94 Resp: 2831

Ion Ratio Lower Upper

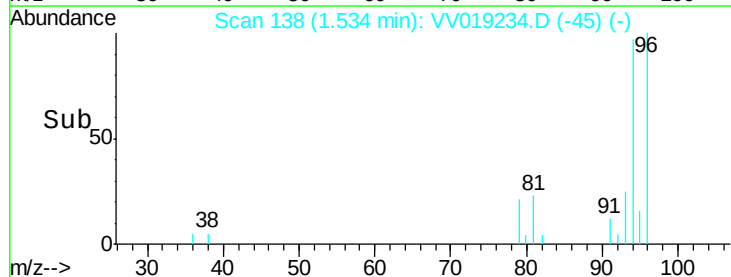
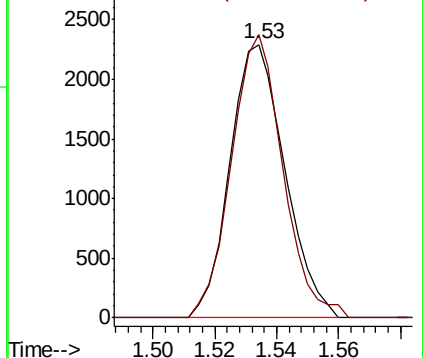
94 100

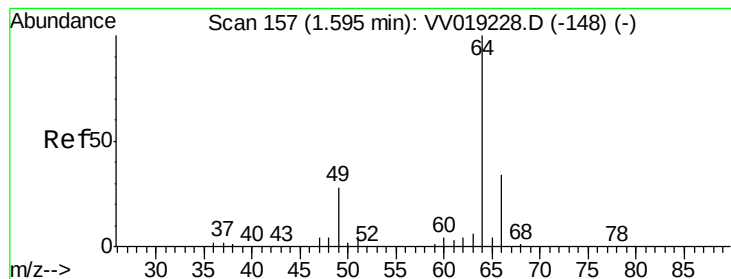
96 103.6 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.865 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

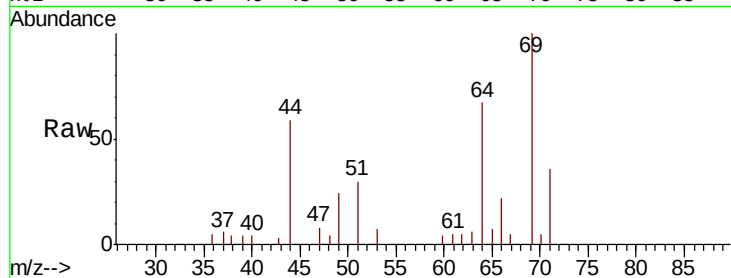
MDL-WATER-05

Tot Ion: 64 Resp: 2981

Ion Ratio Lower Upper

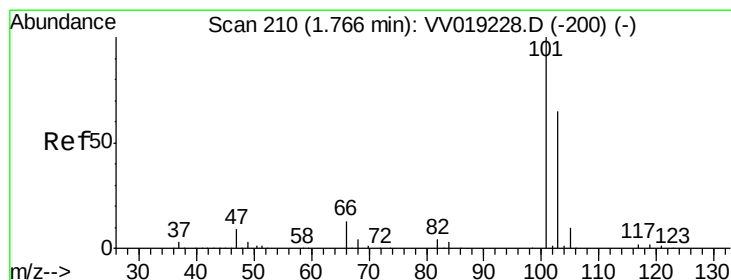
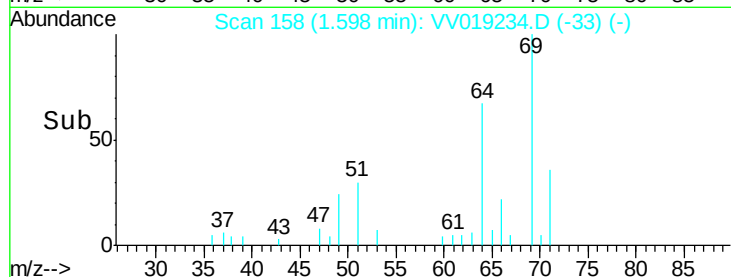
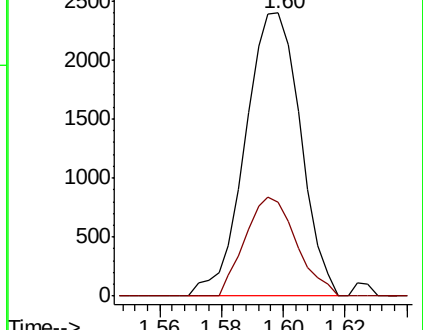
64 100

66 33.3 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019228.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV019228.D (-148) (-)



#9

Trichlorofluoromethane

Concen: 2.522 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019234.D

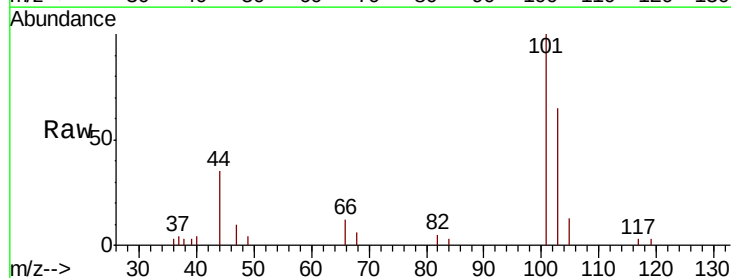
Acq: 03 Nov 2020 14:24

Tgt Ion: 101 Resp: 6643

Ion Ratio Lower Upper

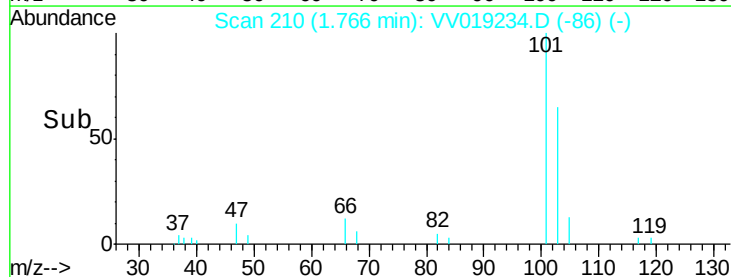
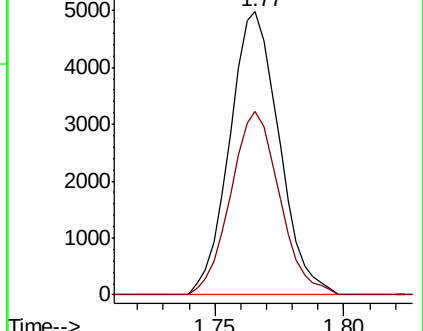
101 100

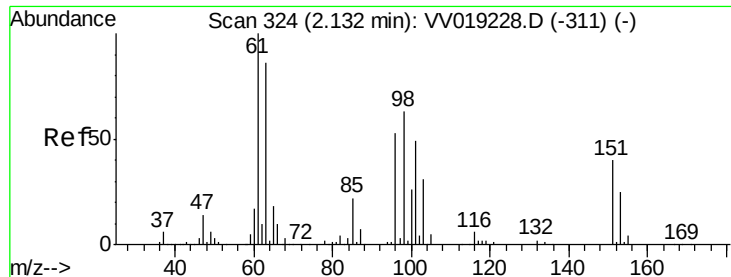
103 64.0 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019228.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019228.D (-200) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.430 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

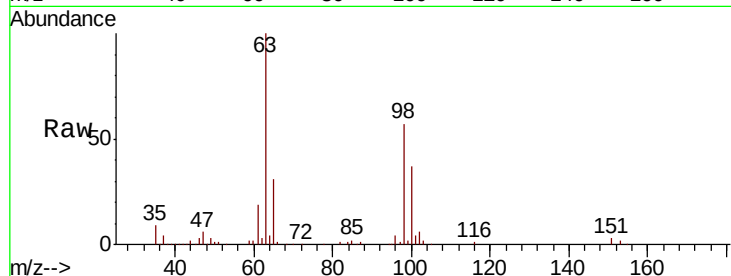
Tot Ion:101 Resp: 4292

Ion Ratio Lower Upper

101 100

85 38.7 35.6 53.4

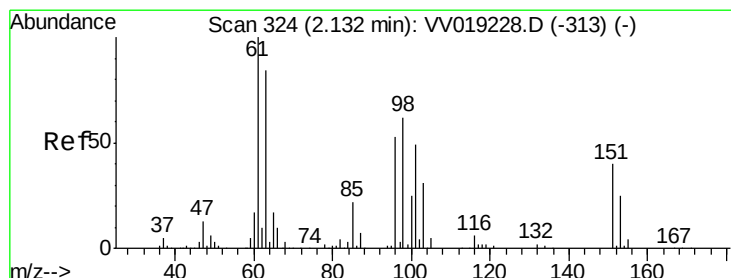
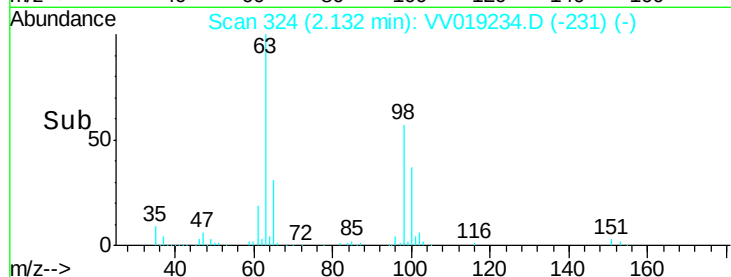
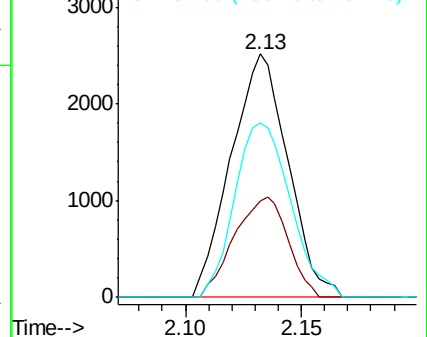
151 70.3 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.283 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

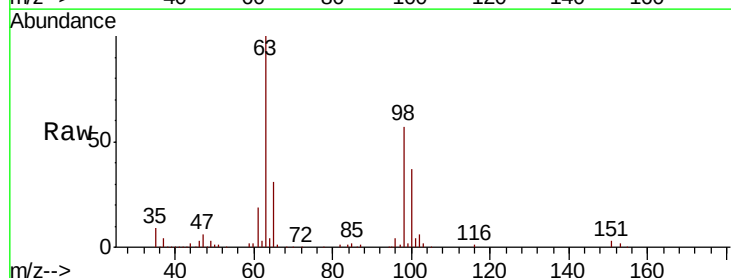
Tgt Ion: 96 Resp: 4247

Ion Ratio Lower Upper

96 100

61 417.9 133.6 248.0#

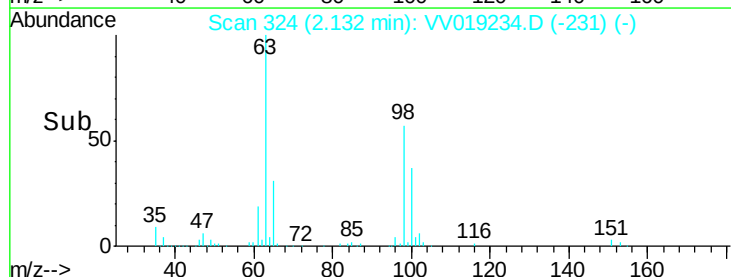
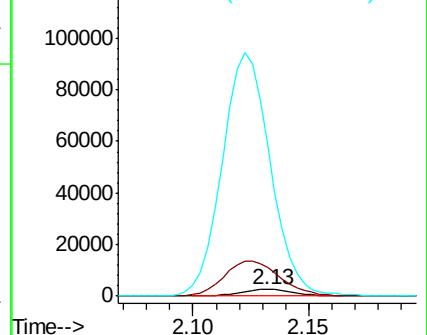
63 2224.0 103.0 191.2#

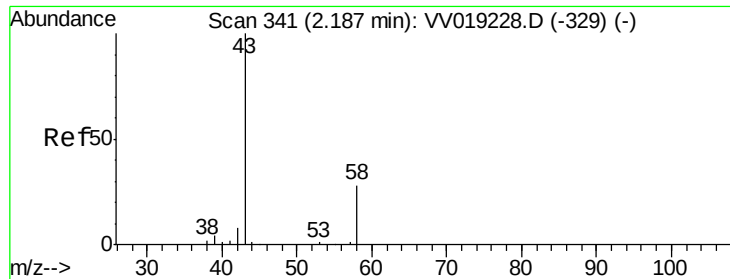


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.403 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

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MSVOA_V

ClientSampleId :

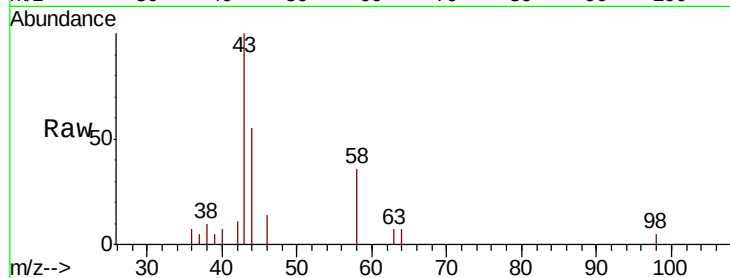
MDL-WATER-05

Tot Ion: 43 Resp: 4965

Ion Ratio Lower Upper

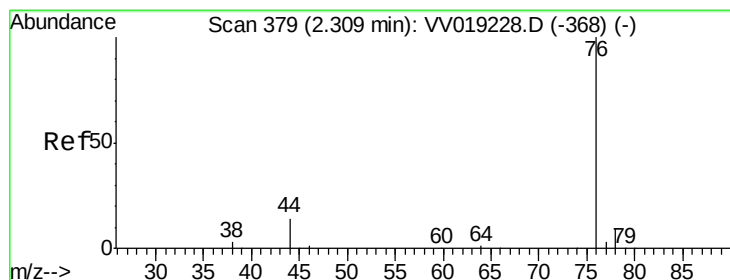
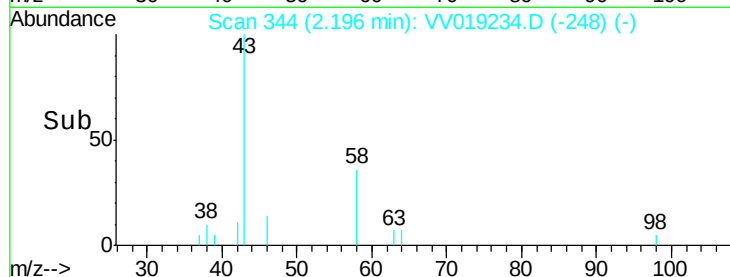
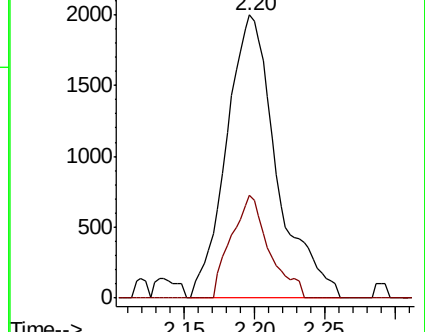
43 100

58 26.3 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV019228.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV019228.D (-329) (-)



#14

Carbon disulfide

Concen: 2.603 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019234.D

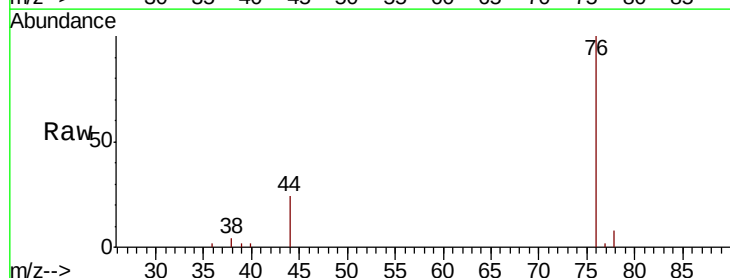
Acq: 03 Nov 2020 14:24

Tgt Ion: 76 Resp: 9668

Ion Ratio Lower Upper

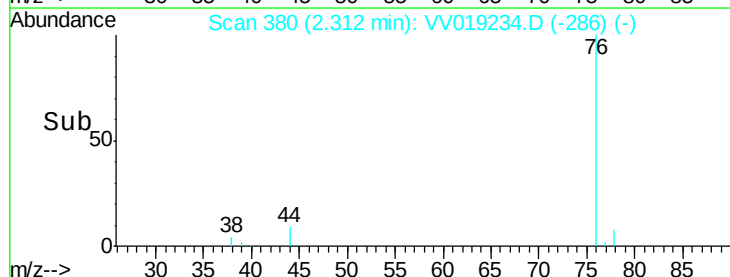
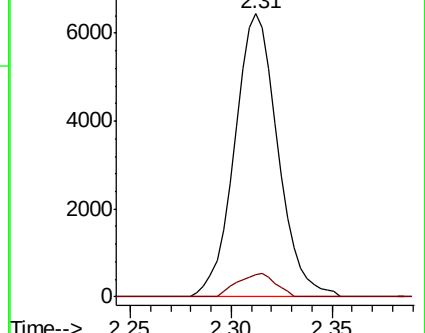
76 100

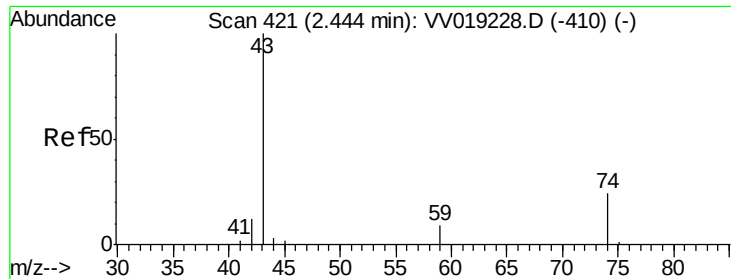
78 7.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019228.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019228.D (-368) (-)

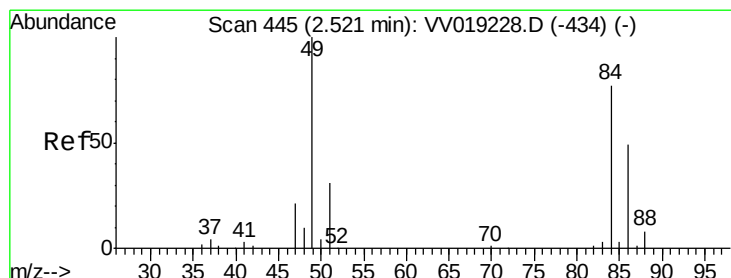
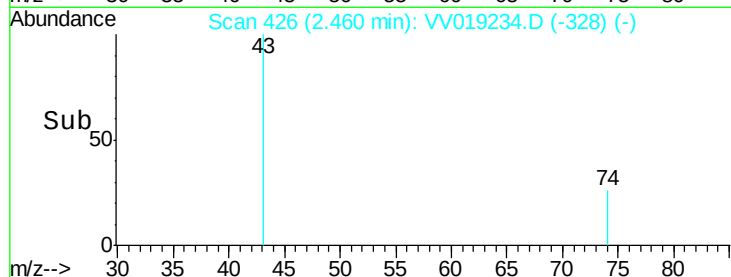
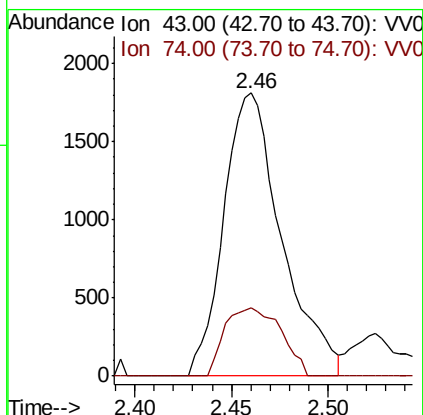
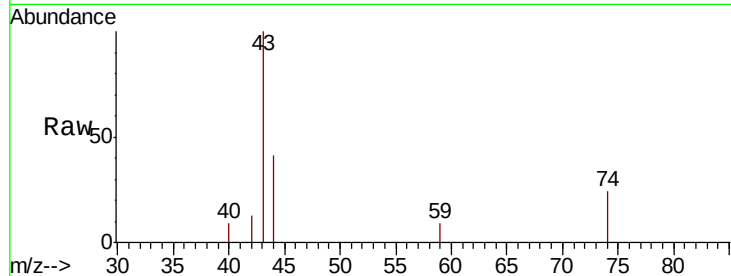




#15
Methvl Acetate
Concen: 2.511 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.02 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

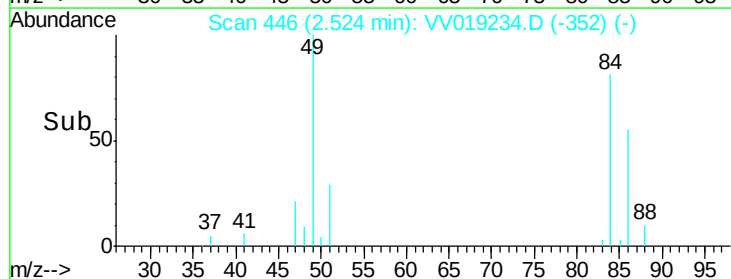
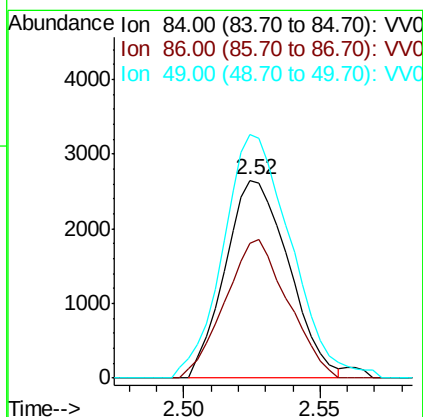
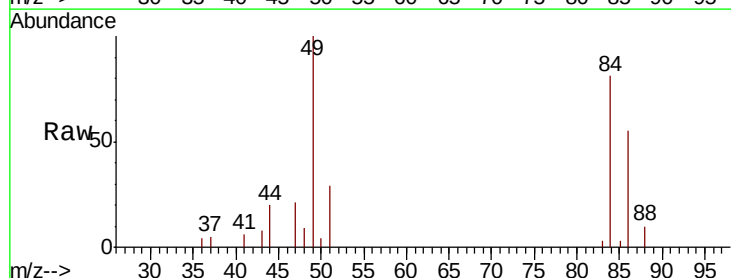
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

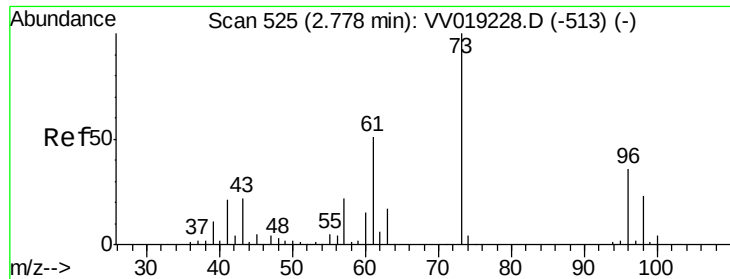
Tot Ion: 43 Resp: 3772
Ion Ratio Lower Upper
43 100
74 23.4 18.8 28.2



#16
Methylene chloride
Concen: 2.793 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 84 Resp: 4294
Ion Ratio Lower Upper
84 100
86 68.2 45.6 84.8
49 123.0 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.674 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

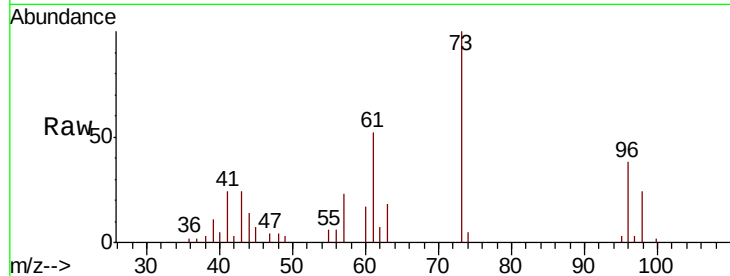
Tot Ion: 96 Resp: 3752

Ion Ratio Lower Upper

96 100

61 137.9 100.7 187.1

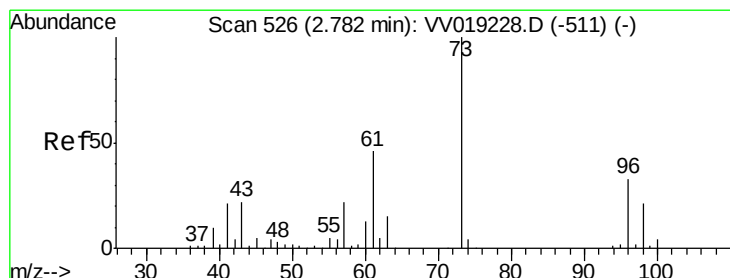
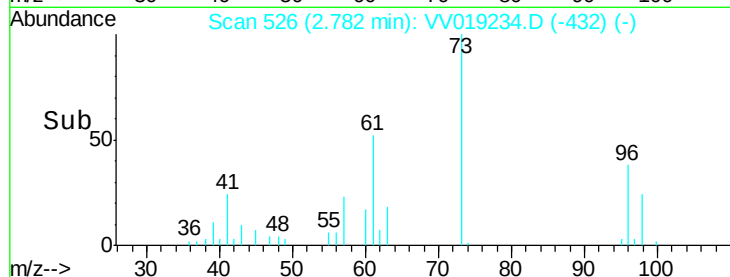
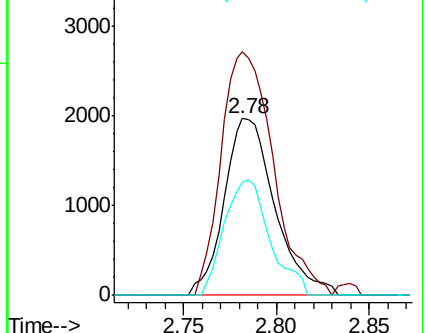
98 64.3 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VV019234.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV019234.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019234.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 2.362 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

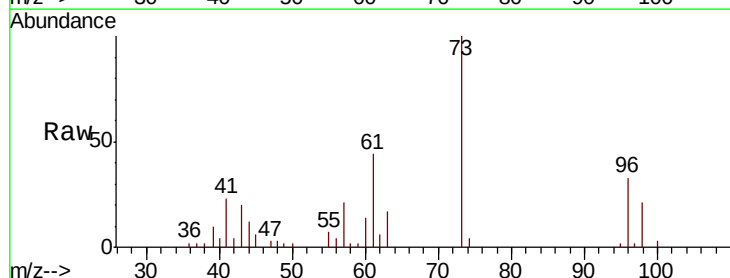
Tgt Ion: 73 Resp: 11651

Ion Ratio Lower Upper

73 100

43 23.8 17.9 26.9

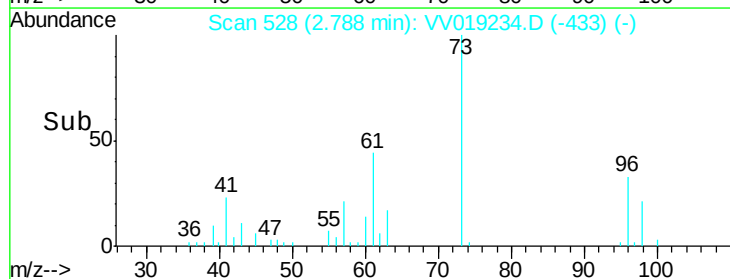
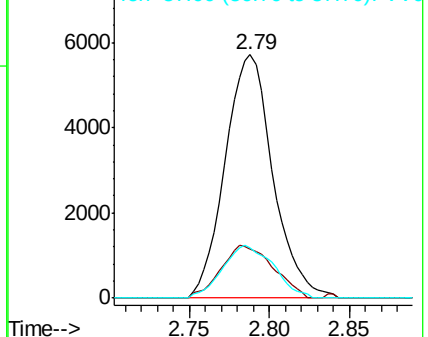
57 23.4 17.1 25.7

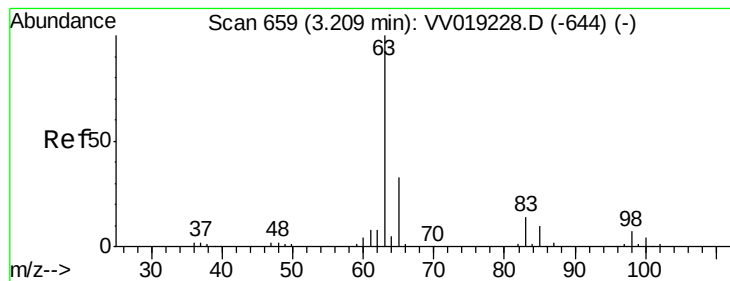


Abundance Ion 73.00 (72.70 to 73.70): VV019234.D (-433) (-)

Ion 43.00 (42.70 to 43.70): VV019234.D (-433) (-)

Ion 57.00 (56.70 to 57.70): VV019234.D (-433) (-)





#19

1,1-Dichloroethane

Concen: 2.394 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

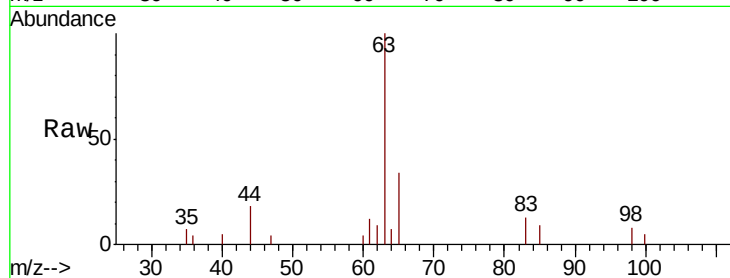
Tot Ion: 63 Resp: 6582

Ion Ratio Lower Upper

63 100

65 34.0 21.8 40.6

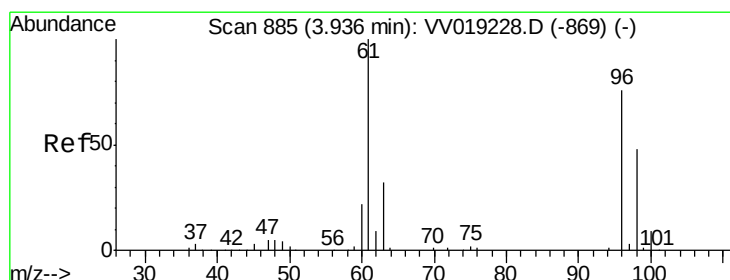
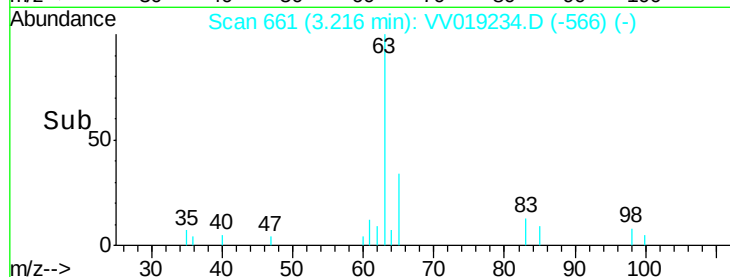
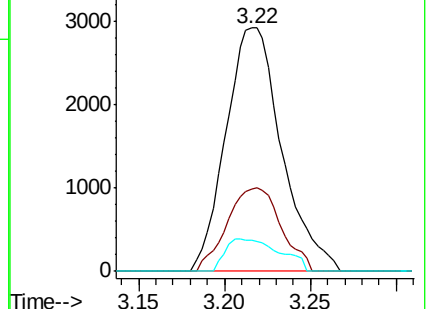
83 12.6 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 1.370 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

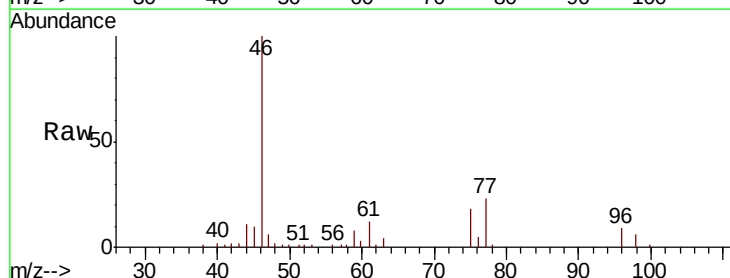
Tgt Ion: 96 Resp: 2125

Ion Ratio Lower Upper

96 100

61 140.6 95.6 177.6

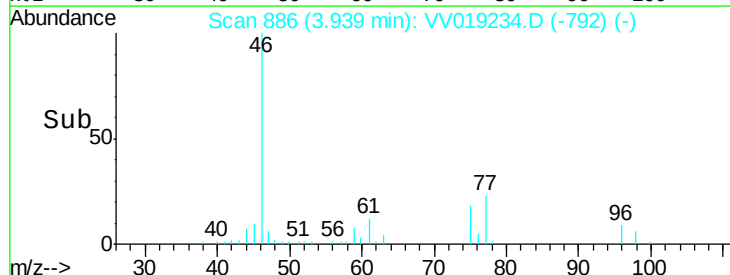
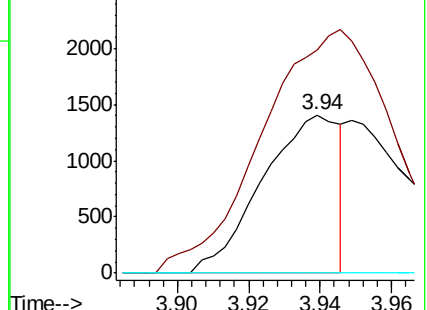
68 0.0 0.0 0.0

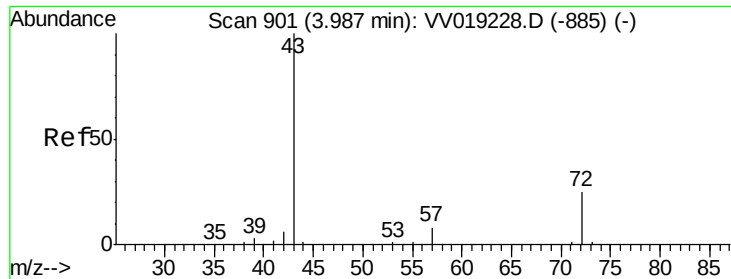


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 2.201 ug/L

RT: 4.02 min Scan# 911

Delta R.T. 0.03 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

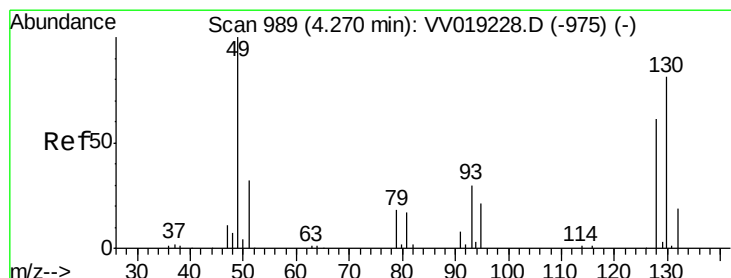
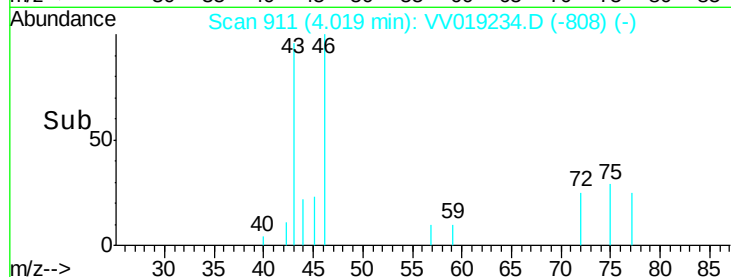
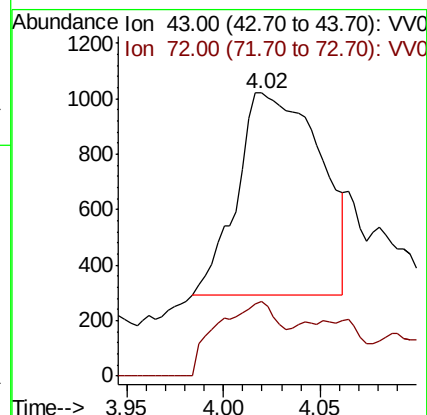
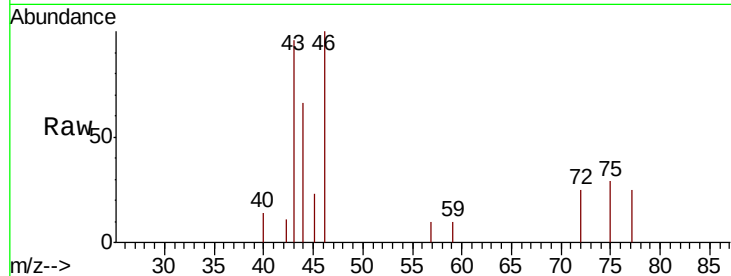
MDL-WATER-05

Tot Ion: 43 Resp: 2166

Ion Ratio Lower Upper

43 100

72 9.2 12.7 38.0#



#23

Bromochloromethane

Concen: 1.270 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tgt Ion: 128 Resp: 1084

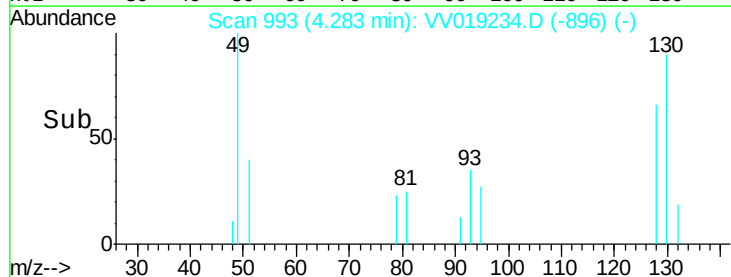
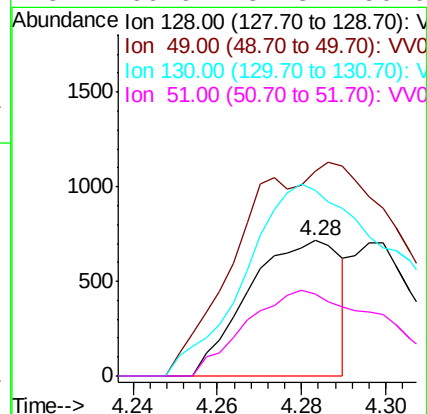
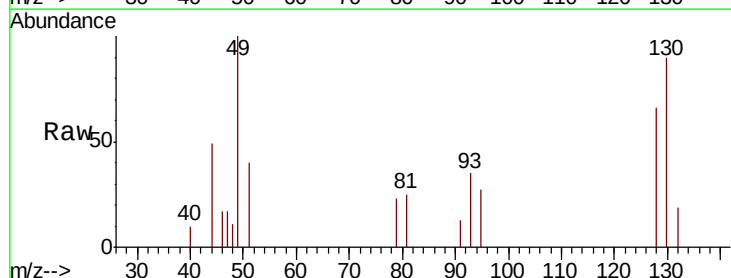
Ion Ratio Lower Upper

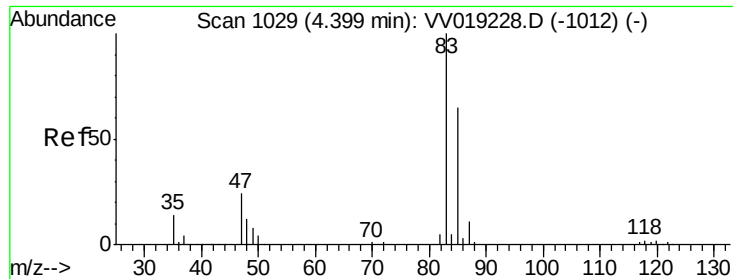
128 100

49 152.0 108.8 202.2

130 137.1 88.5 164.3

51 60.9 37.8 56.6#

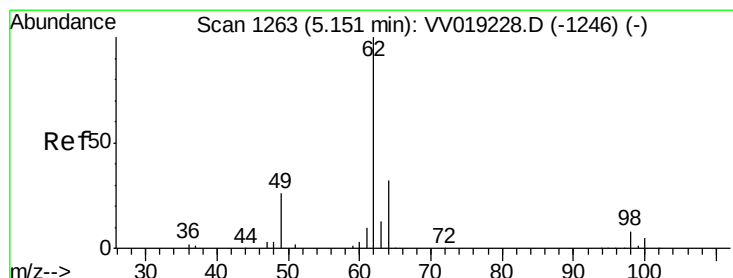
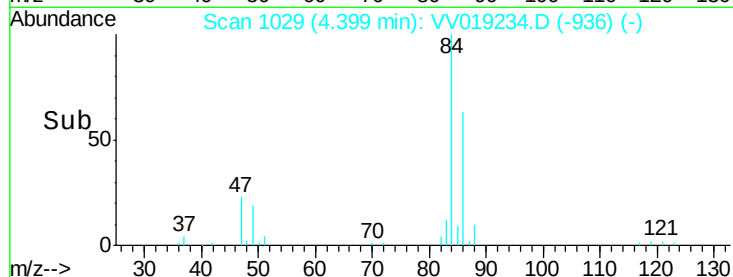
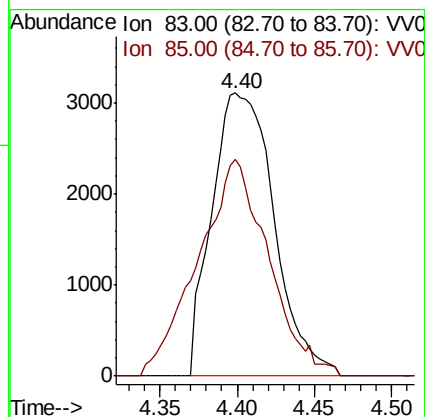
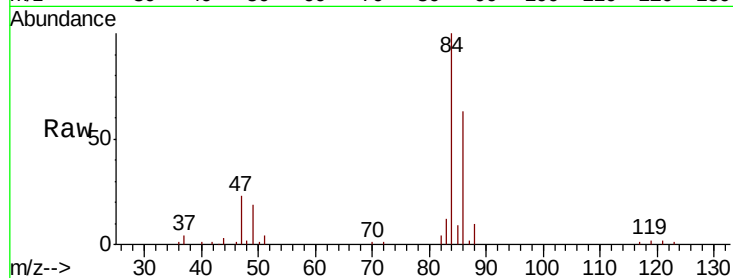




#25
Chloroform
Concen: 2.958 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

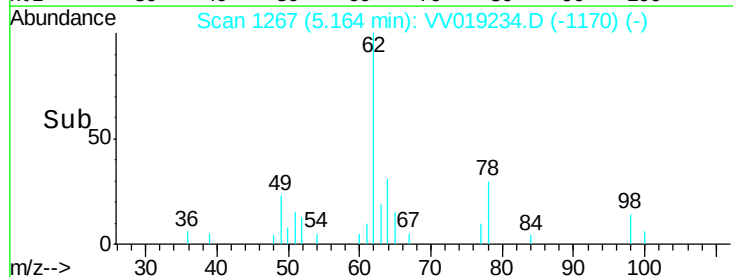
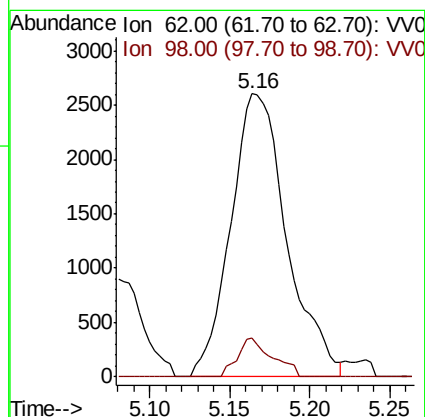
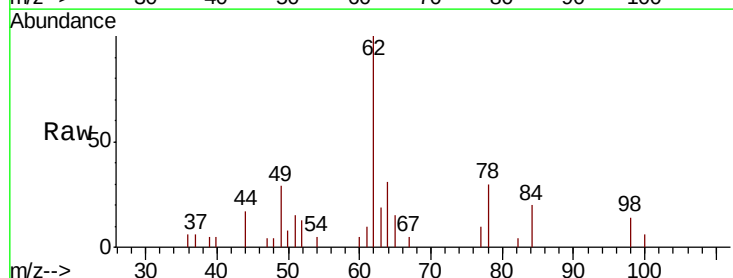
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

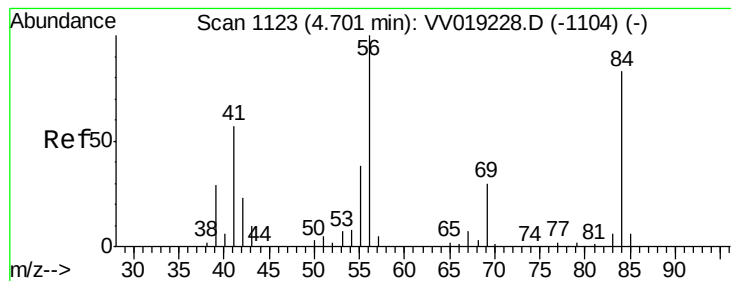
Tot Ion: 83 Resp: 8720
Ion Ratio Lower Upper
83 100
85 76.6 45.4 84.4



#27
1,2-Dichloroethane
Concen: 2.498 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 62 Resp: 6260
Ion Ratio Lower Upper
62 100
98 13.7 6.8 10.2#





#29

Cyclohexane

Concen: 2.389 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

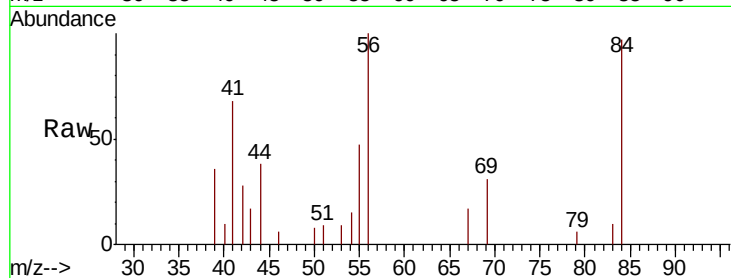
Tot Ion: 56 Resp: 4799

Ion Ratio Lower Upper

56 100

69 30.9 24.6 36.8

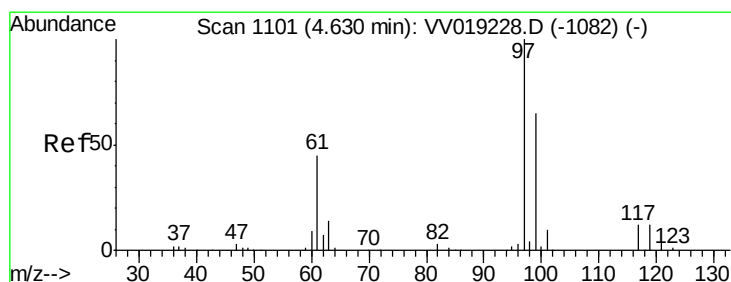
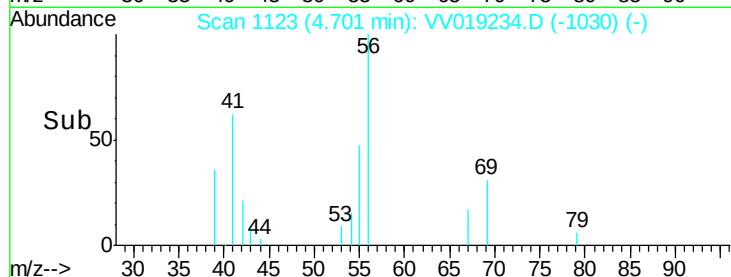
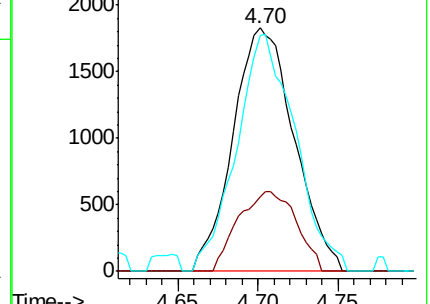
84 93.6 70.5 105.7



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 2.463 ug/L

RT: 4.64 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

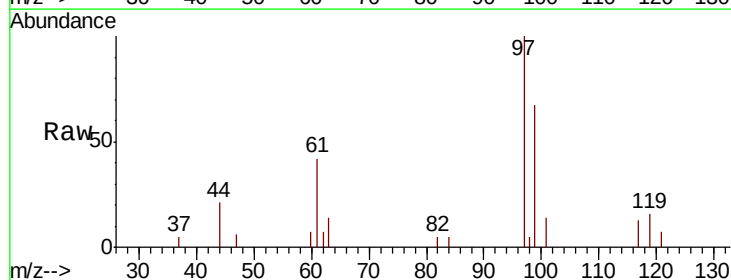
Tgt Ion: 97 Resp: 6705

Ion Ratio Lower Upper

97 100

99 63.0 52.0 78.0

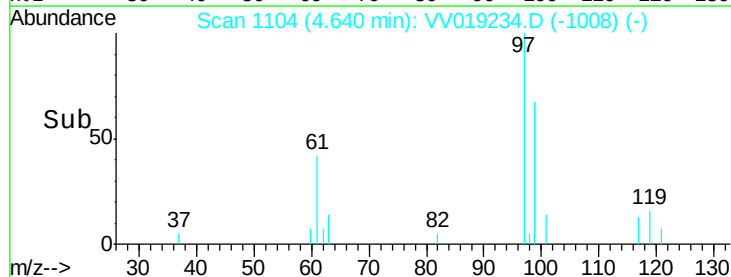
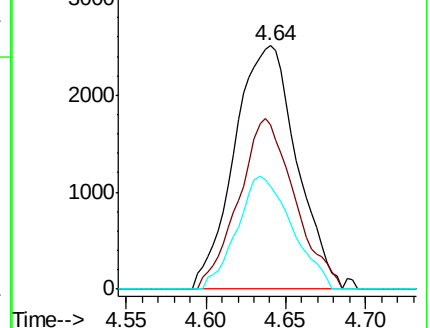
61 40.9 35.3 52.9

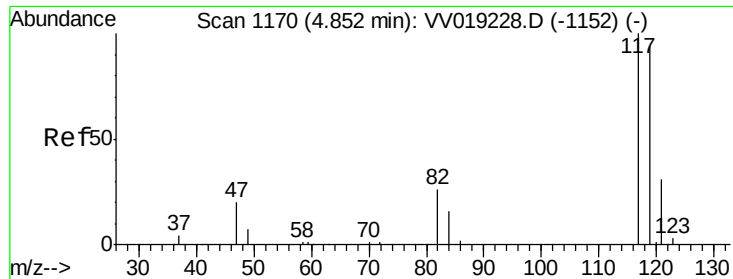


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

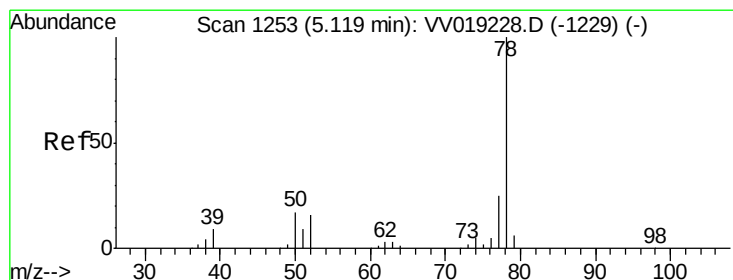
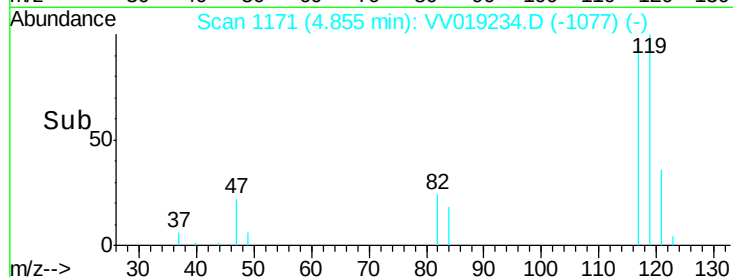
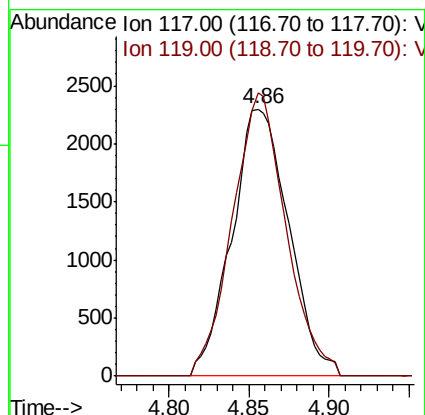
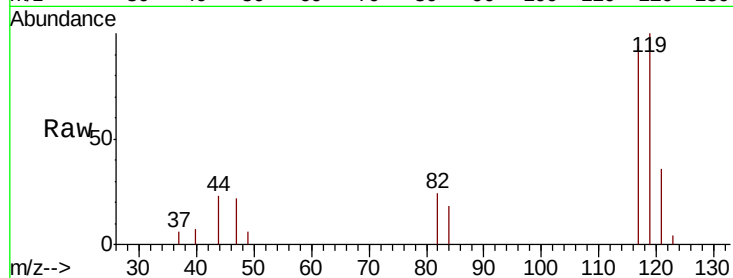




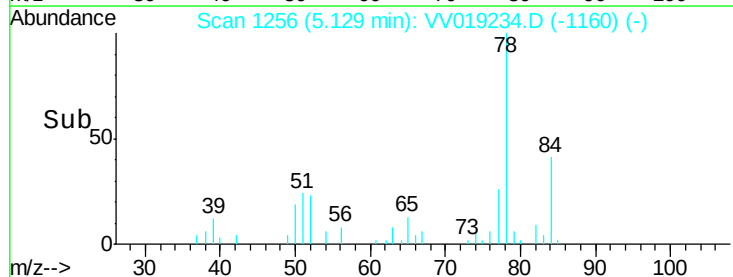
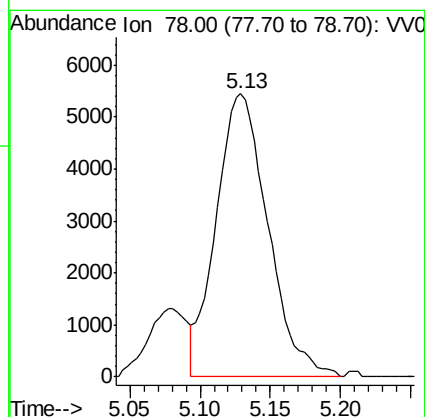
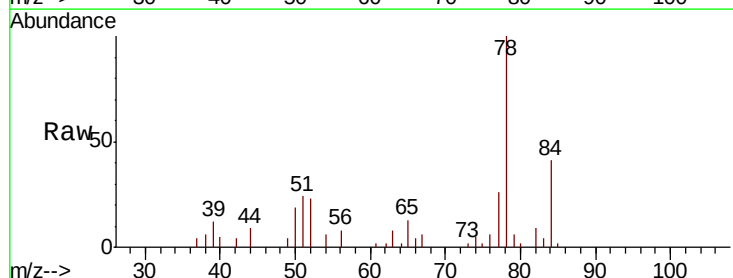
#31
Carbon tetrachloride
Concen: 2.380 ug/L
RT: 4.86 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

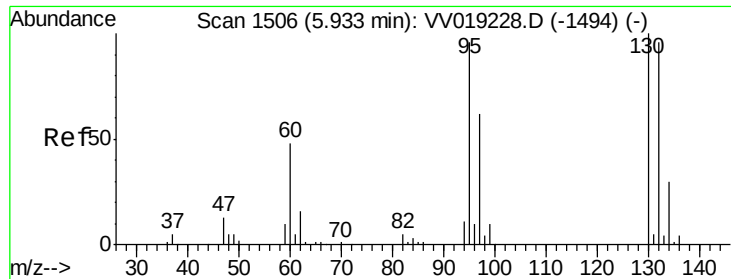
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion:117 Resp: 5594
Ion Ratio Lower Upper
117 100
119 99.9 77.8 116.6



#33
Benzene
Concen: 2.391 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24
Tgt Ion: 78 Resp: 13947





#34

Trichloroethene

Concen: 2.519 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

Tot Ion: 95 Resp: 3993

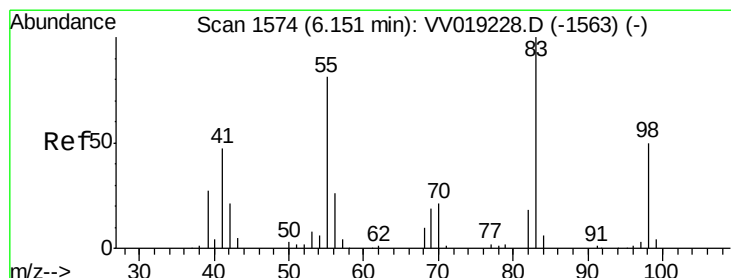
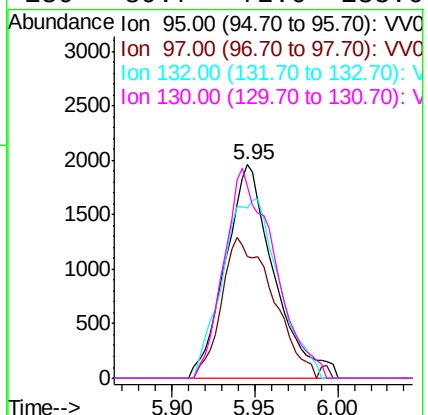
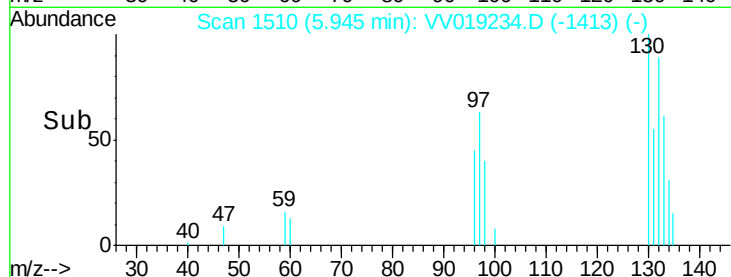
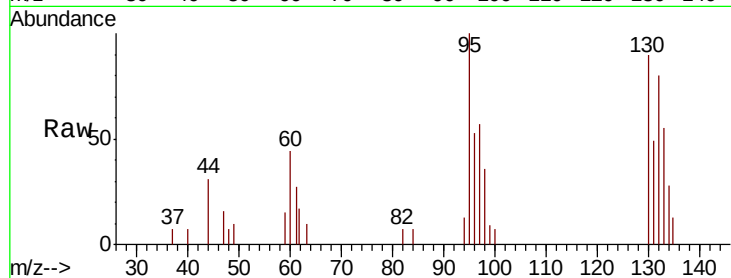
Ion Ratio Lower Upper

95 100

97 56.8 45.4 84.4

132 79.9 68.5 127.3

130 89.7 72.0 133.6



#35

Methylcyclohexane

Concen: 2.603 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

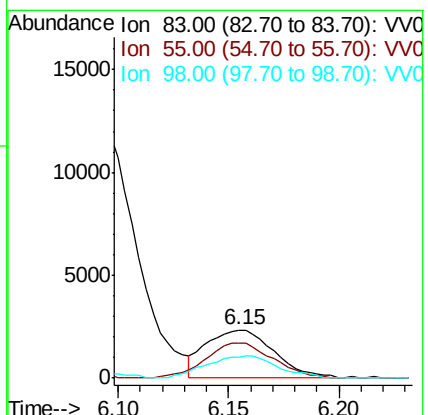
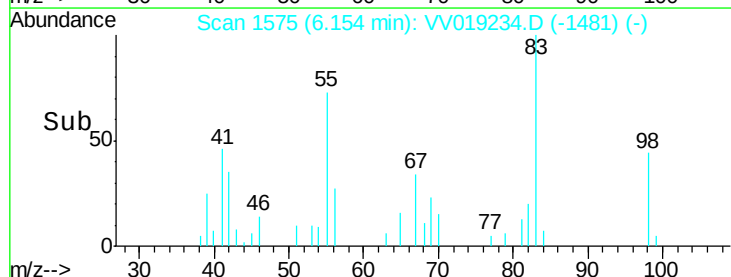
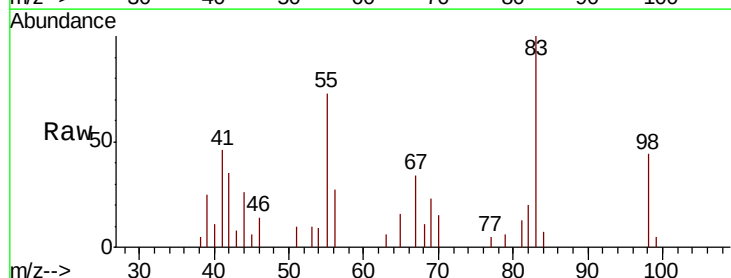
Tgt Ion: 83 Resp: 4994

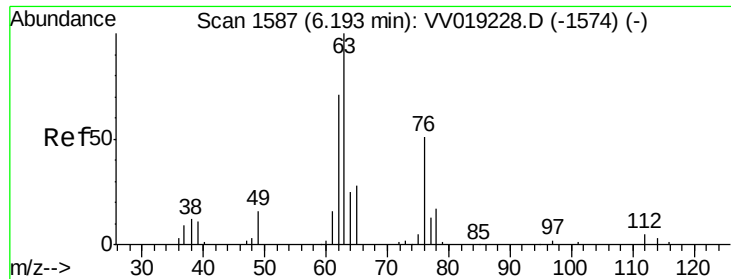
Ion Ratio Lower Upper

83 100

55 72.1 62.8 94.2

98 48.3 38.6 58.0

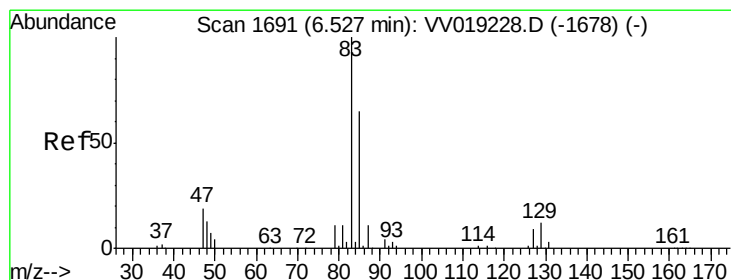
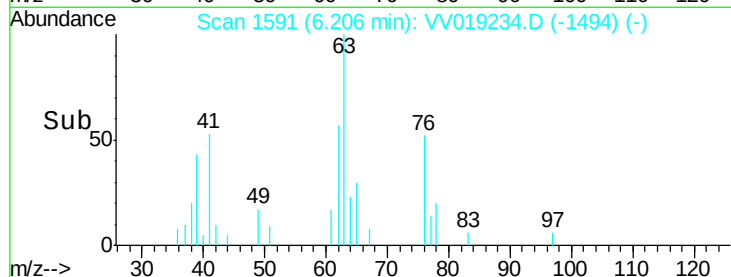
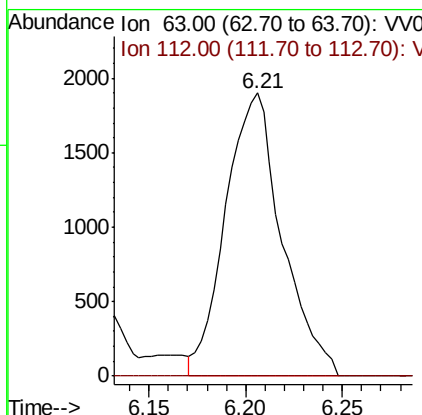
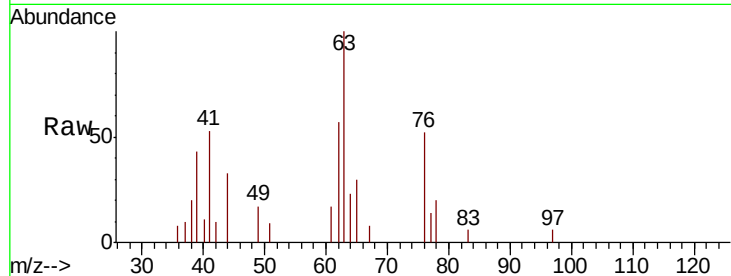




#37
 1,2-Dichloropropane
 Concen: 2.479 ug/L
 RT: 6.21 min Scan# 1591
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

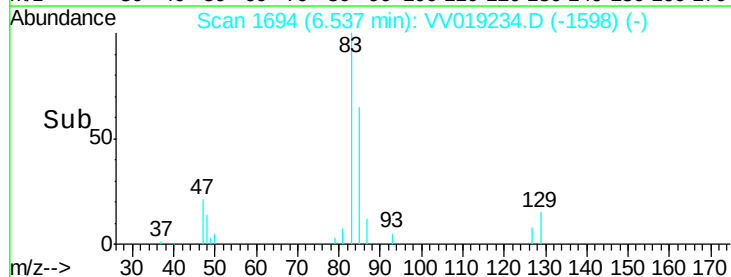
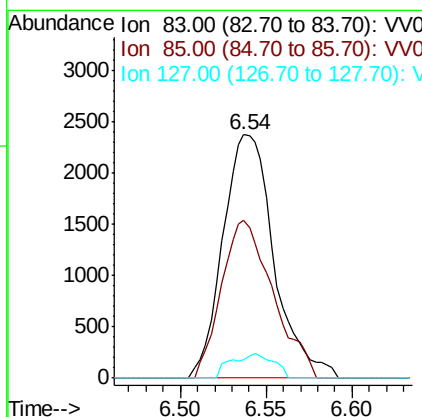
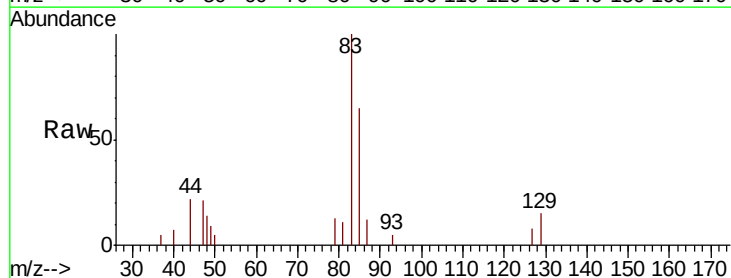
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

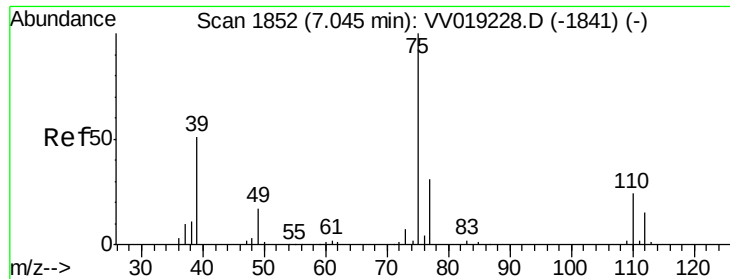
Tot Ion: 63 Resp: 3859
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.2 6.2#



#38
 Bromodichloromethane
 Concen: 2.200 ug/L
 RT: 6.54 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion: 83 Resp: 4929
 Ion Ratio Lower Upper
 83 100
 85 64.9 44.0 81.8
 127 7.7 7.3 10.9

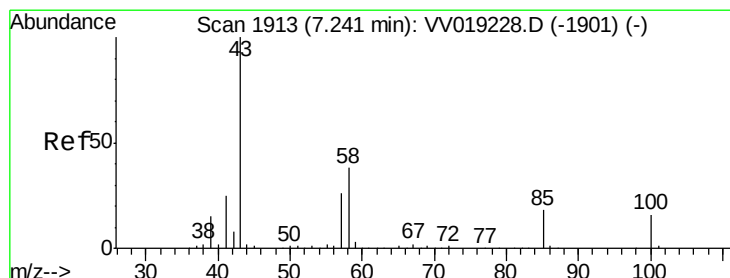
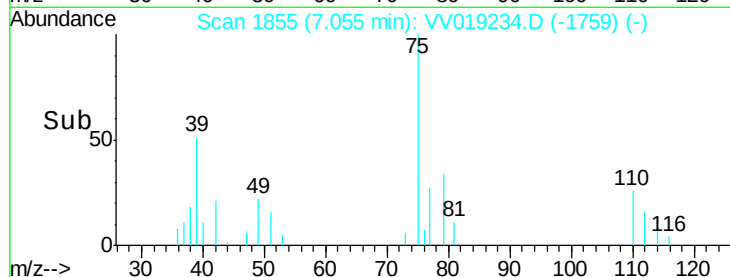
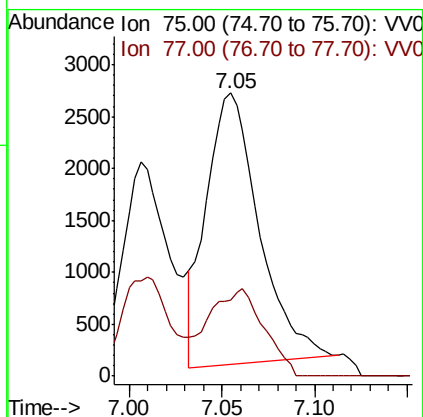
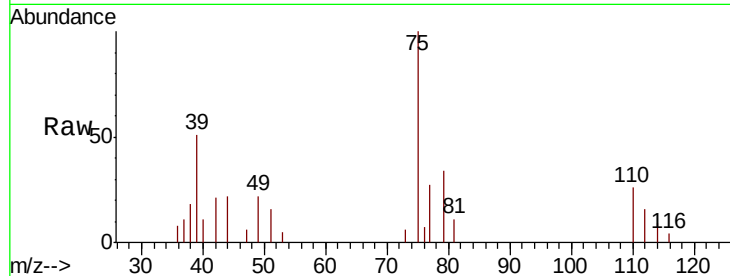




#39
 cis-1,3-Dichloropropene
 Concen: 2.069 ug/L
 RT: 7.05 min Scan# 1855
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

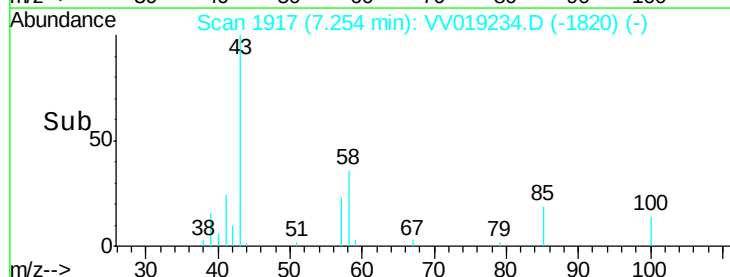
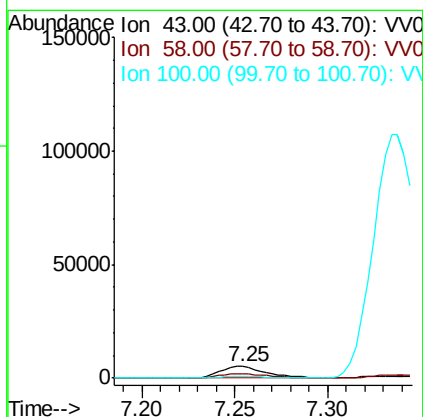
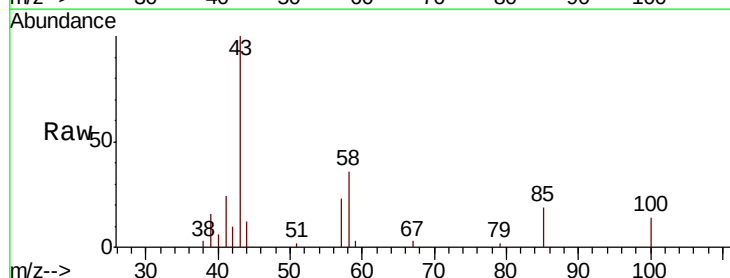
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

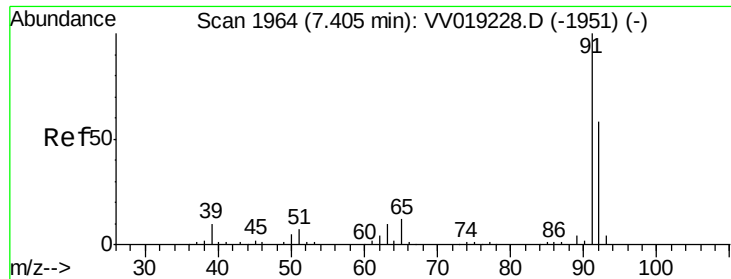
Tot Ion: 75 Resp: 5155
 Ion Ratio Lower Upper
 75 100
 77 26.7 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 4.337 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion: 43 Resp: 9070
 Ion Ratio Lower Upper
 43 100
 58 38.9 30.5 45.7
 100 13.4 12.7 19.1





#42

Toluene

Concen: 2.711 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

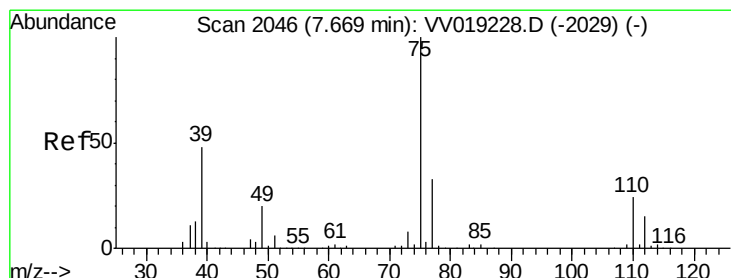
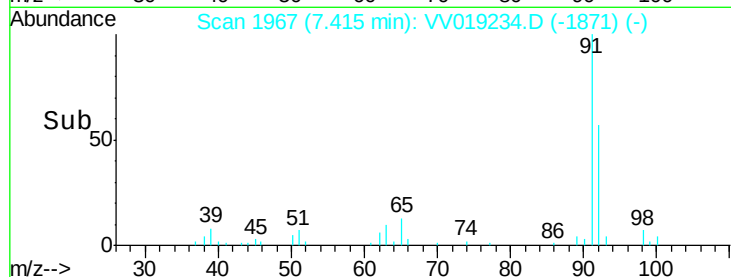
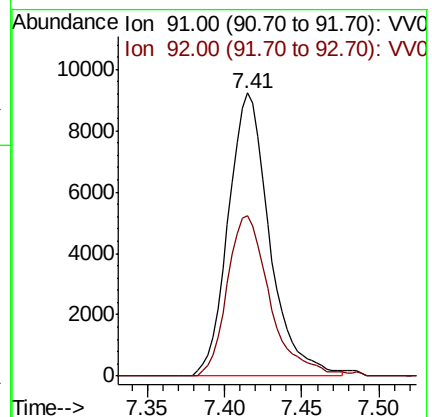
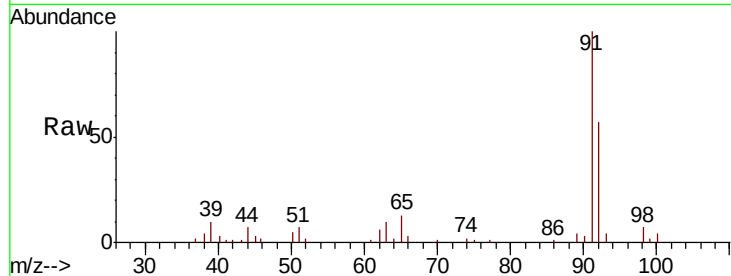
MDL-WATER-05

Tot Ion: 91 Resp: 17096

Ion Ratio Lower Upper

91 100

92 56.7 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 2.399 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019234.D

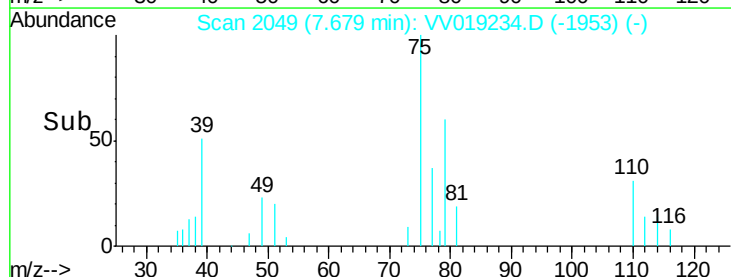
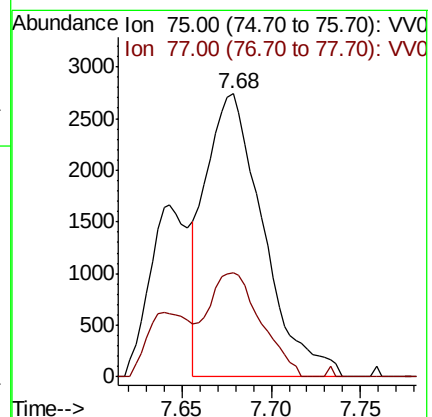
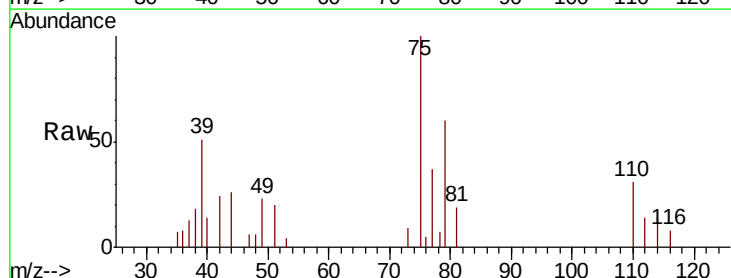
Acq: 03 Nov 2020 14:24

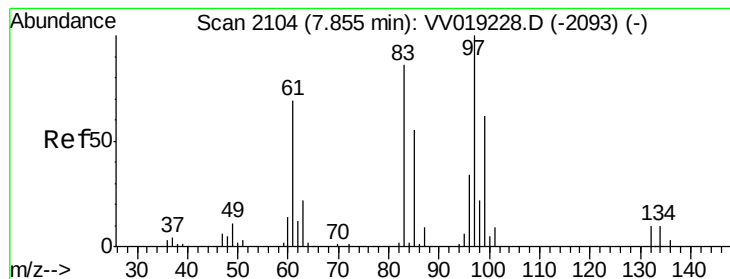
Tgt Ion: 75 Resp: 6124

Ion Ratio Lower Upper

75 100

77 36.8 21.6 40.2





#45

1,1,2-Trichloroethane

Concen: 2.451 ug/L

RT: 7.87 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

Tot Ion: 97 Resp: 3772

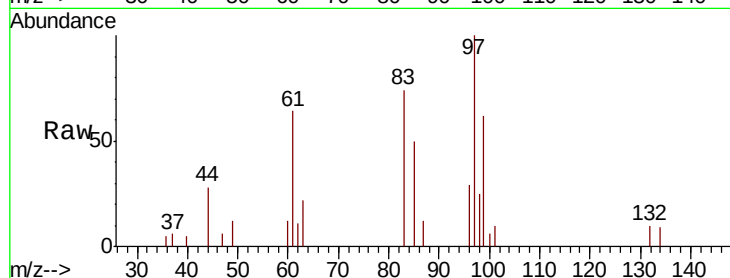
Ion Ratio Lower Upper

97 100

99 62.5 45.1 83.9

83 73.8 57.6 107.0

85 50.2 37.8 70.2

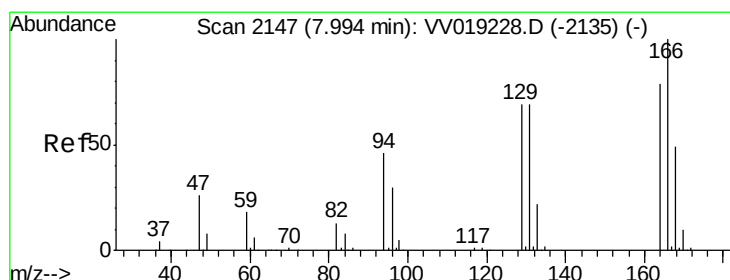
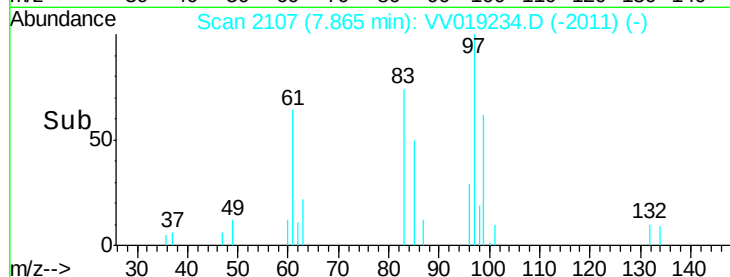
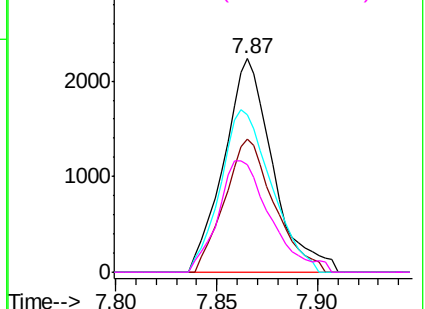


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 2.404 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Tgt Ion: 164 Resp: 3109

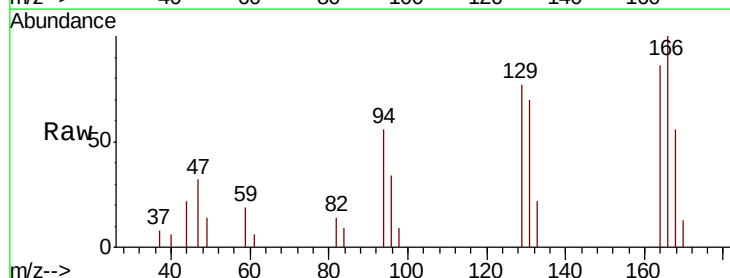
Ion Ratio Lower Upper

164 100

129 89.5 62.6 116.3

131 81.4 59.0 109.6

166 116.4 88.0 163.4

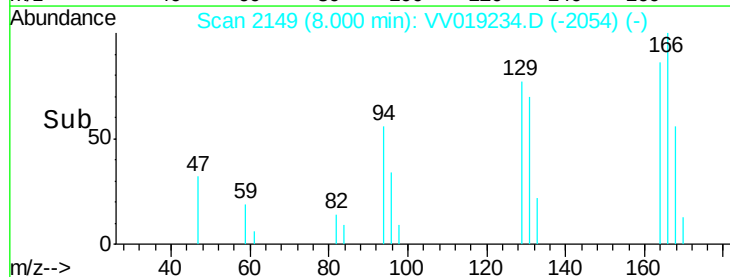
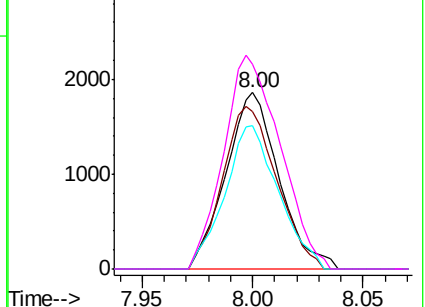


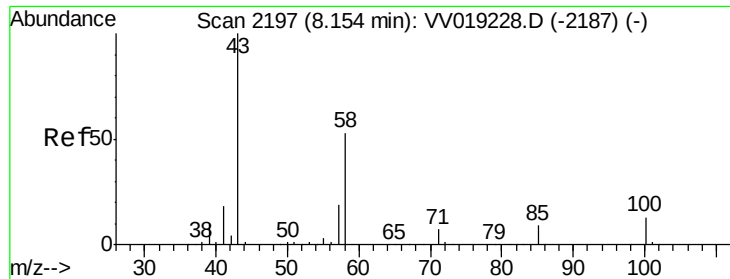
Abundance Ion 164.00 (163.70 to 164.70): V

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

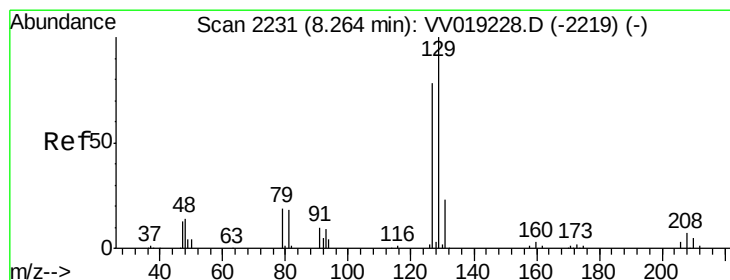
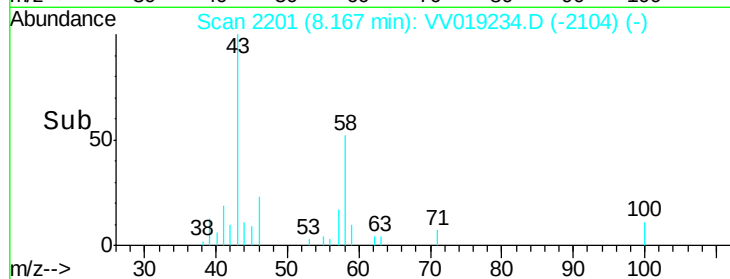
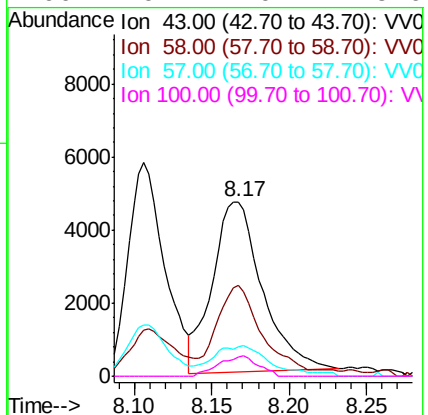
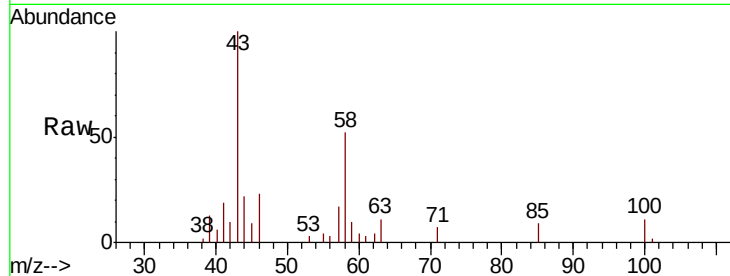




#48
2-Hexanone
Concen: 6.647 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

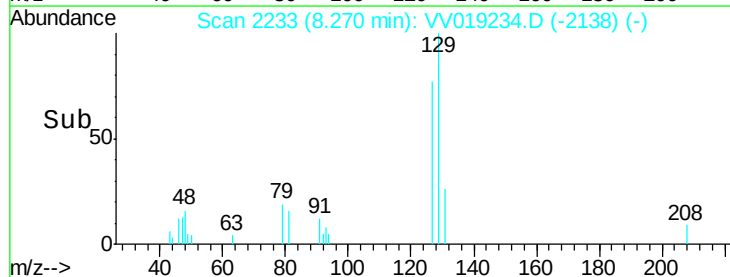
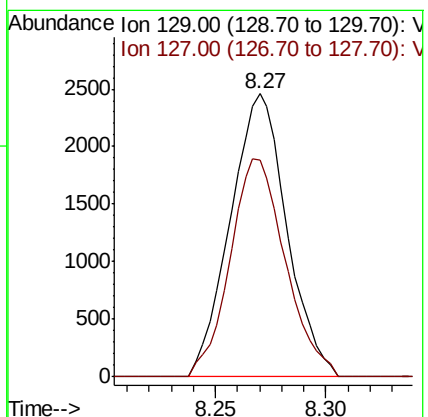
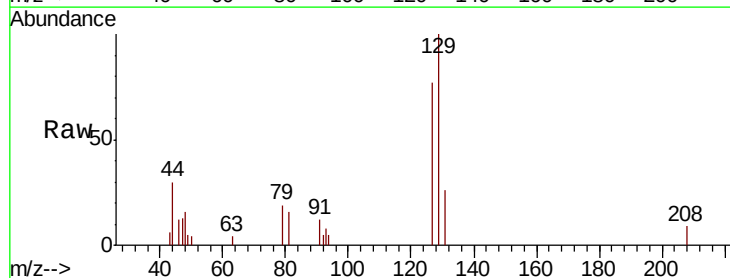
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

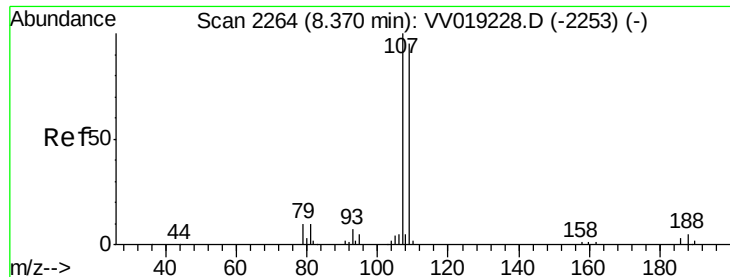
Tot Ion: 43 Resp: 10510
Ion Ratio Lower Upper
43 100
58 43.2 42.6 63.8
57 4.4 15.8 23.8#
100 9.4 10.4 15.6#



#49
Dibromochloromethane
Concen: 2.382 ug/L
RT: 8.27 min Scan# 2233
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion: 129 Resp: 4372
Ion Ratio Lower Upper
129 100
127 76.8 54.4 101.0

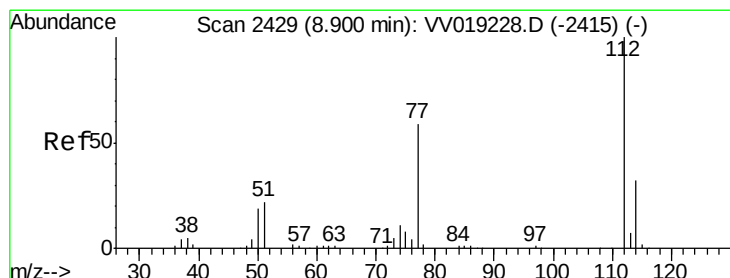
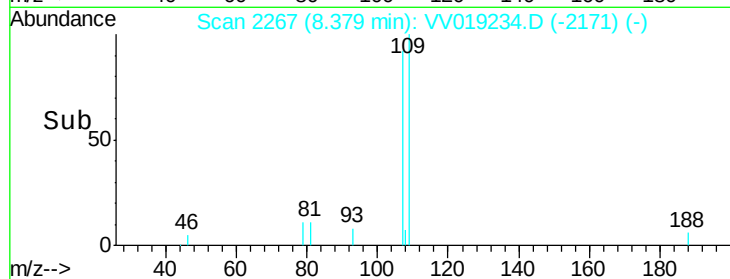
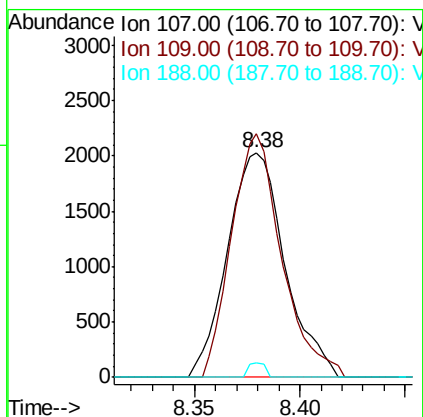
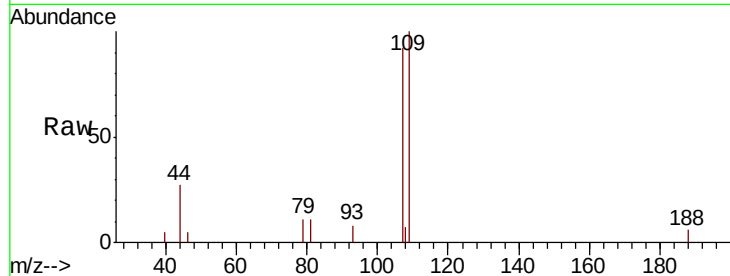




#50
1,2-Dibromoethane
Concen: 2.411 ug/L
RT: 8.38 min Scan# 2267
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

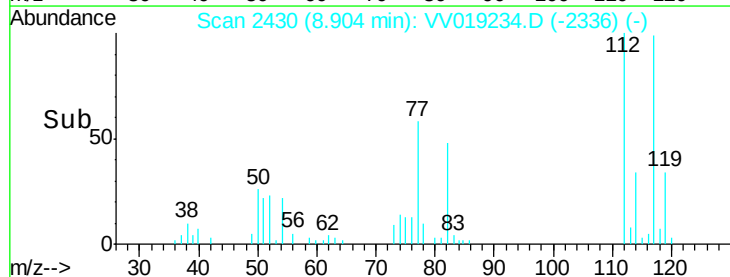
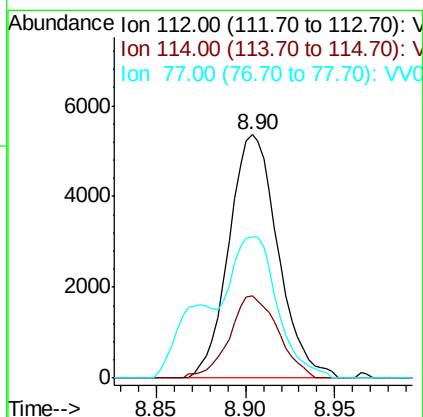
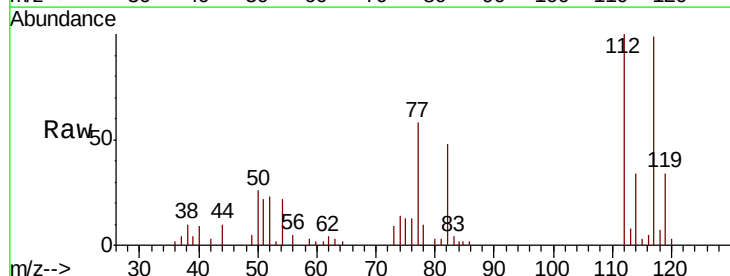
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

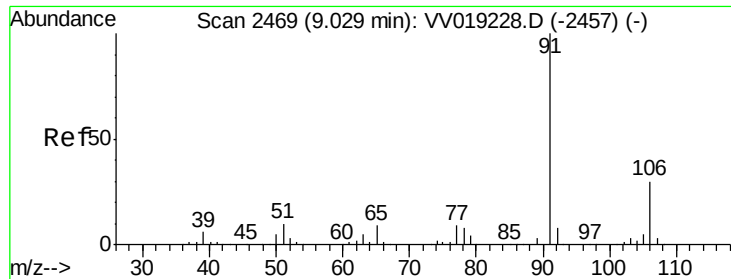
Tot Ion:107 Resp: 3846
Ion Ratio Lower Upper
107 100
109 108.2 64.8 120.4
188 6.4 3.8 5.8#



#51
Chlorobenzene
Concen: 2.440 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion:112 Resp: 10291
Ion Ratio Lower Upper
112 100
114 33.6 22.7 42.1
77 58.1 47.3 70.9





#52

Ethylbenzene

Concen: 2.217 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

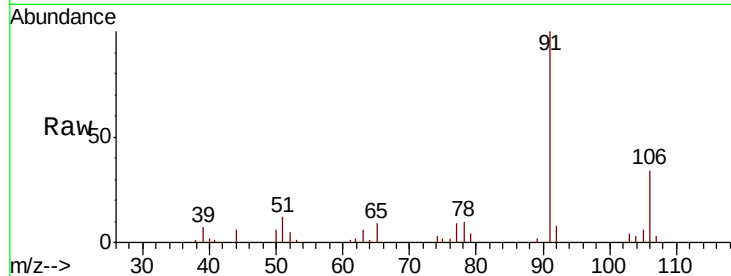
MDL-WATER-05

Tot Ion: 91 Resp: 15420

Ion Ratio Lower Upper

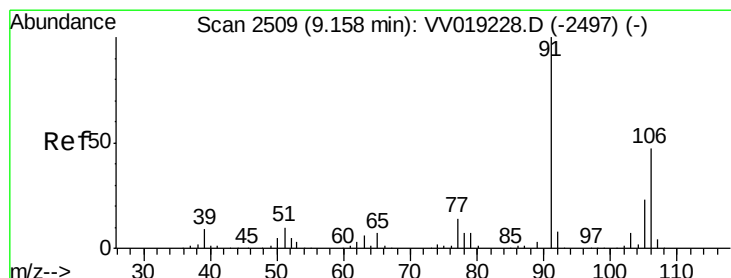
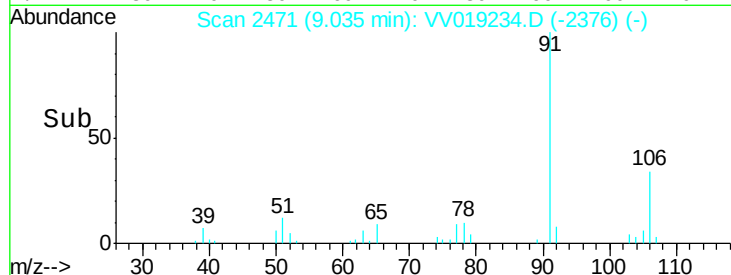
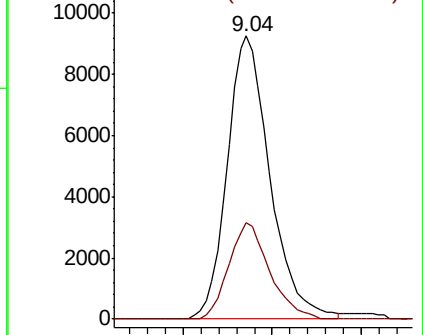
91 100

106 34.1 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 2.300 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV019234.D

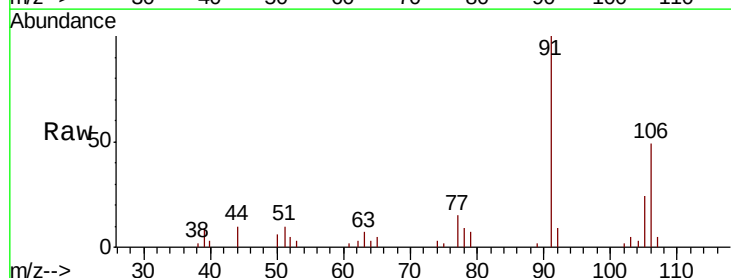
Acq: 03 Nov 2020 14:24

Tgt Ion: 106 Resp: 5990

Ion Ratio Lower Upper

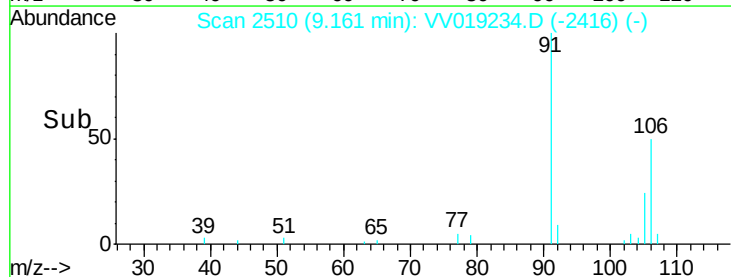
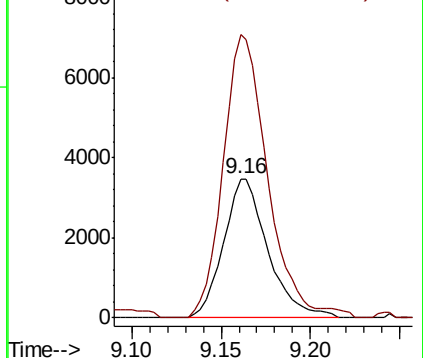
106 100

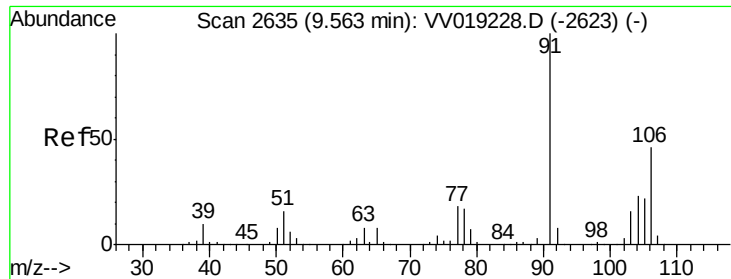
91 203.9 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

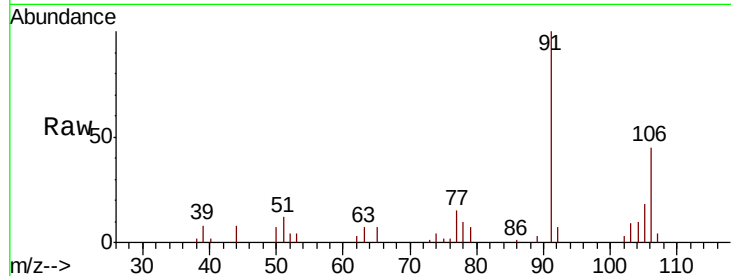




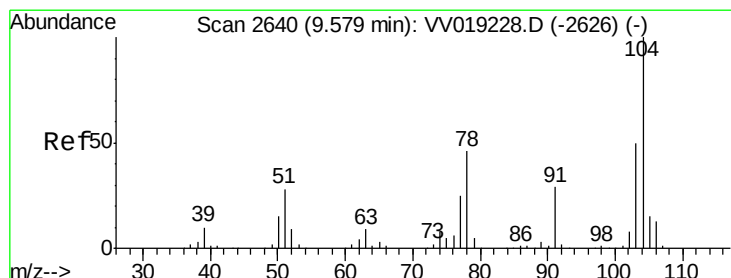
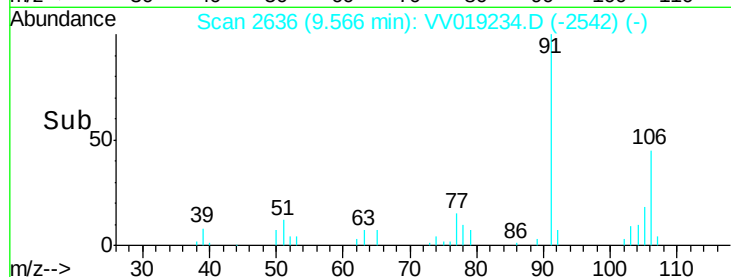
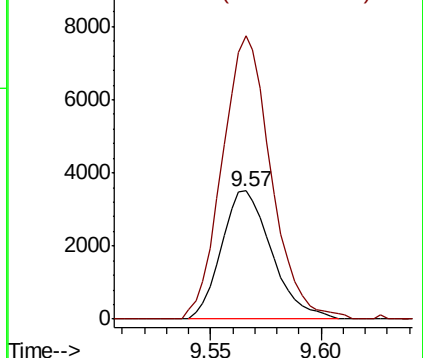
#54
o-Xylene
Concen: 2.158 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion:106 Resp: 5540
Ion Ratio Lower Upper
106 100
91 220.7 151.6 281.6

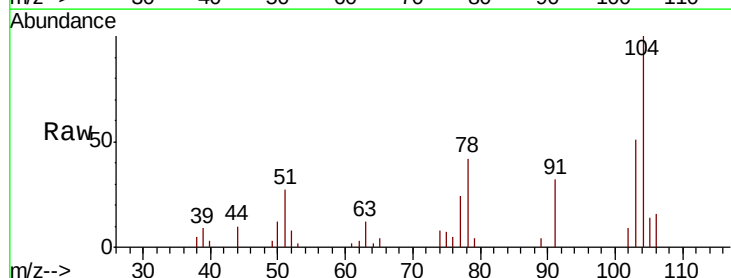


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

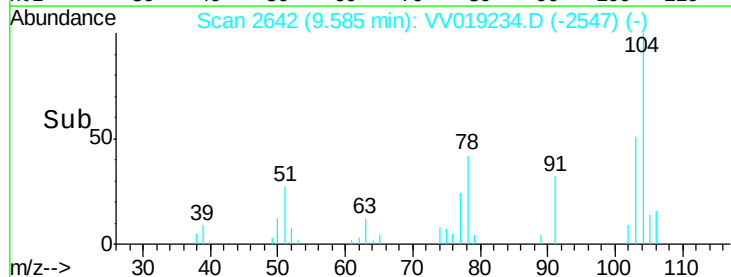
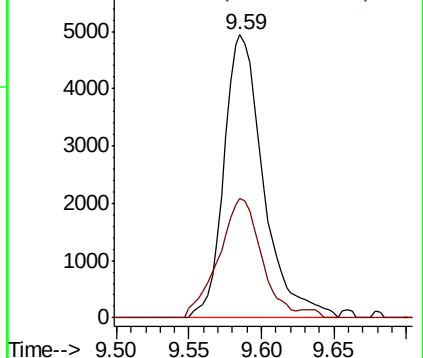


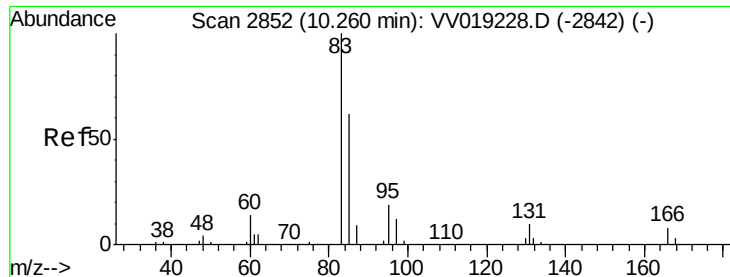
#55
Styrene
Concen: 2.044 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion:104 Resp: 9340
Ion Ratio Lower Upper
104 100
78 42.3 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0

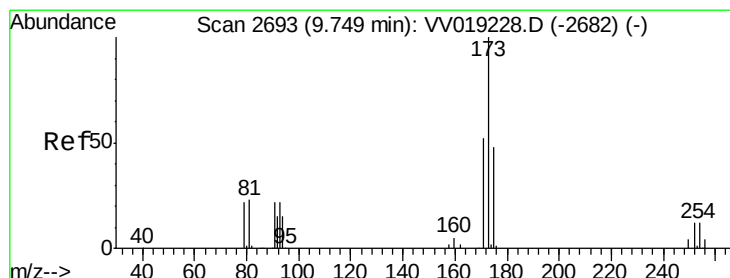
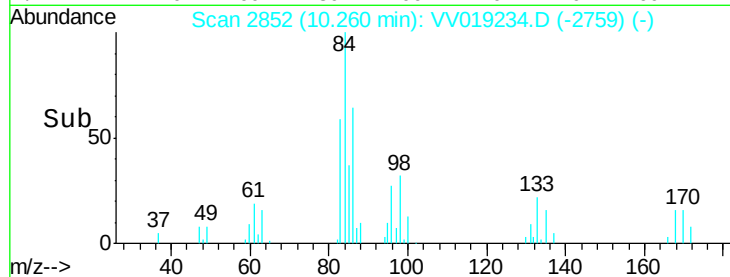
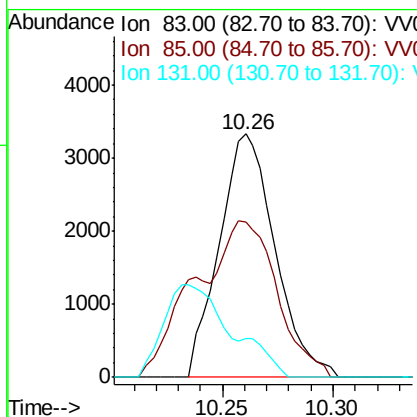
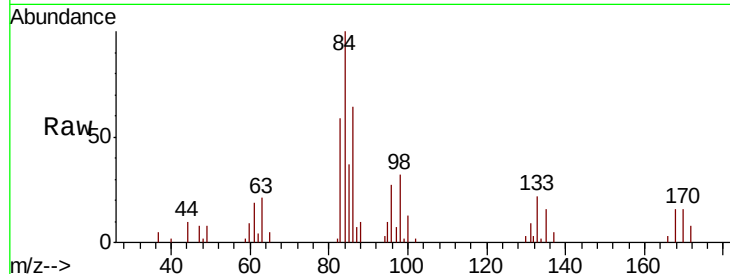




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.512 ug/L
 RT: 10.26 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

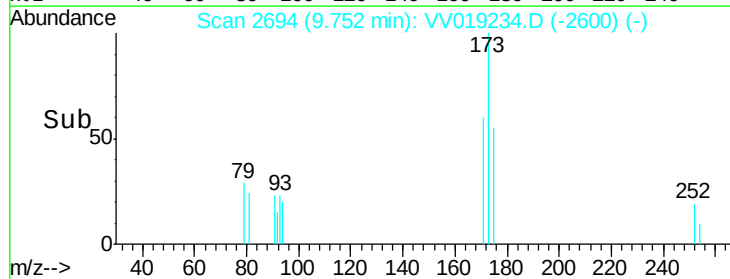
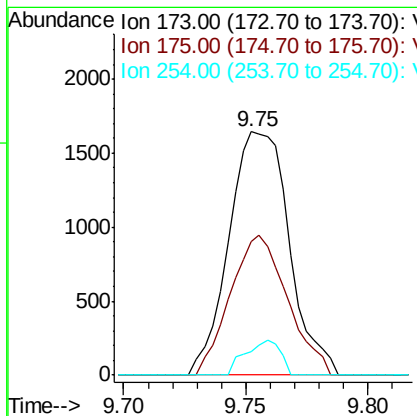
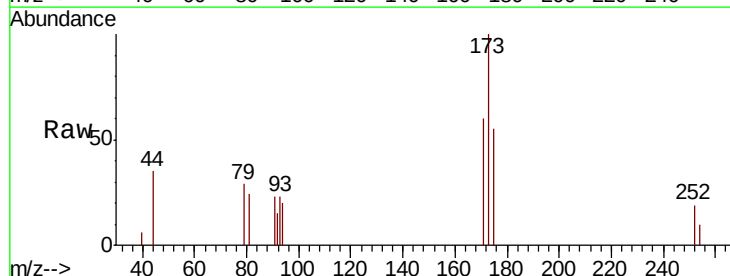
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

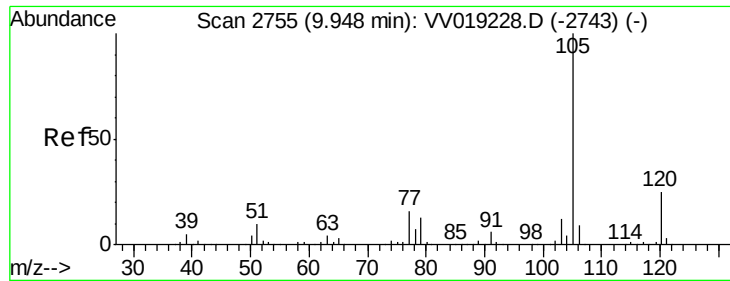
Tot Ion: 83 Resp: 5847
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.0 83.6
 131 16.1 8.9 13.3#



#59
 Bromoform
 Concen: 2.134 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion: 173 Resp: 2820
 Ion Ratio Lower Upper
 173 100
 175 54.4 38.4 57.6
 254 8.2 9.0 13.6#





#60

Isopropylbenzene

Concen: 2.292 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.01 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

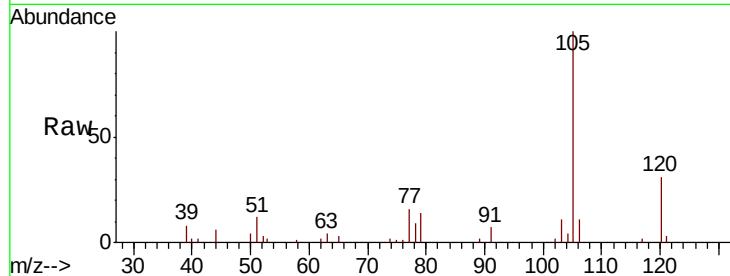
Tot Ion:105 Resp: 14304

Ion Ratio Lower Upper

105 100

120 26.0 21.0 31.4

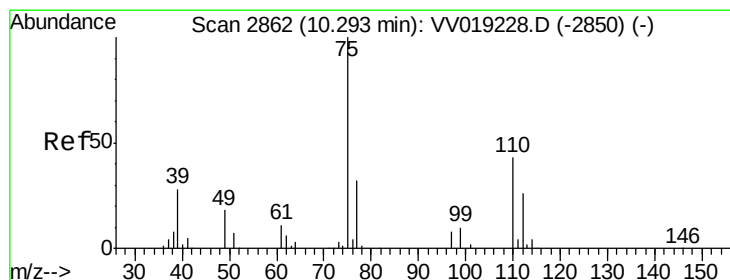
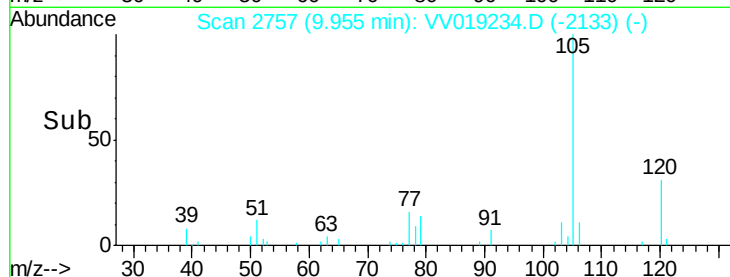
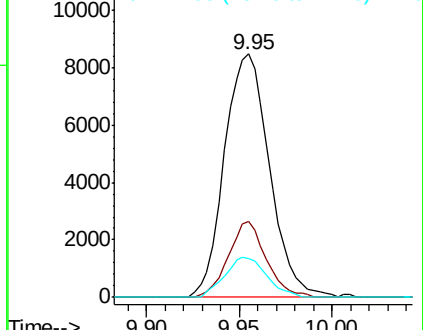
77 15.4 13.0 19.6



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: 2.472 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019234.D

Acq: 03 Nov 2020 14:24

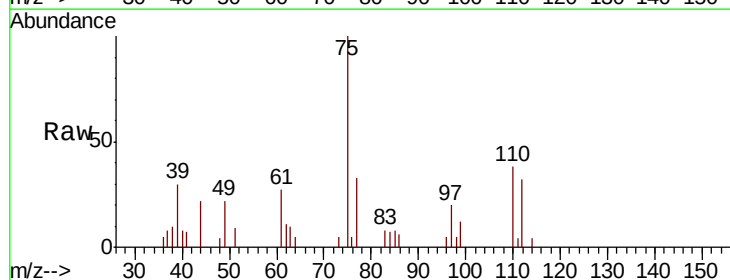
Tgt Ion: 75 Resp: 4572

Ion Ratio Lower Upper

75 100

77 32.5 24.8 37.2

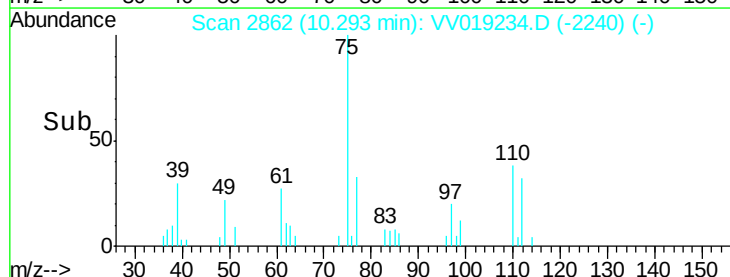
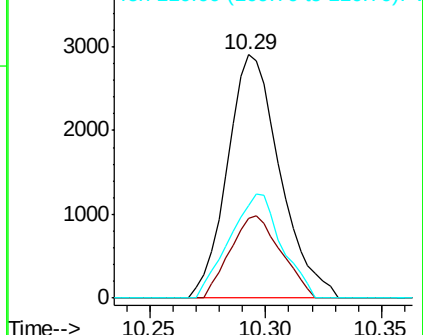
110 42.3 33.4 50.2

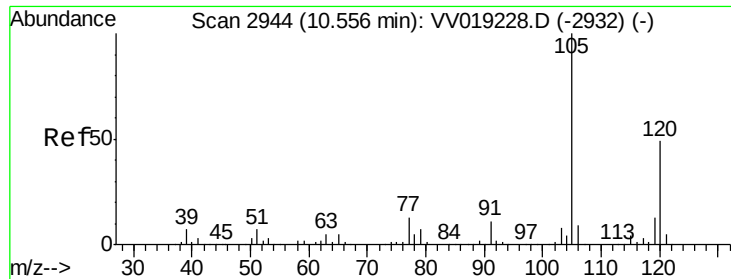


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

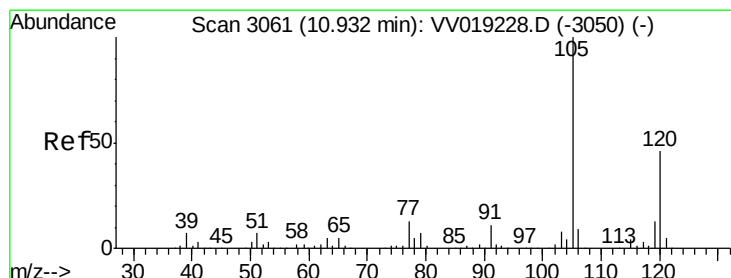
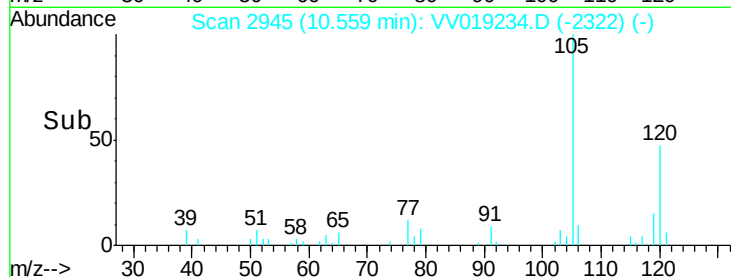
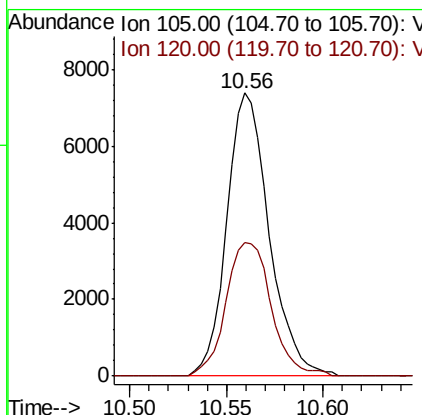
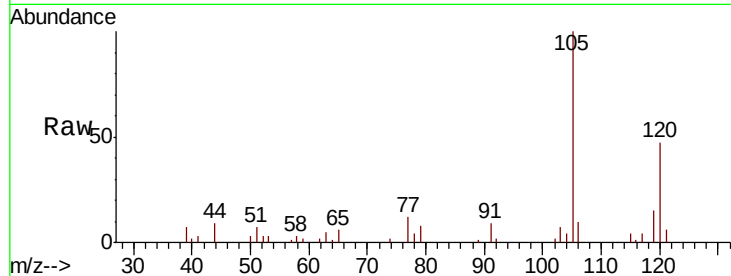




#62
 1,3,5-Trimethylbenzene
 Concen: 2.155 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

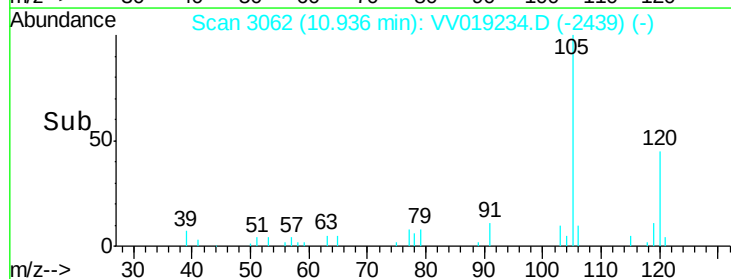
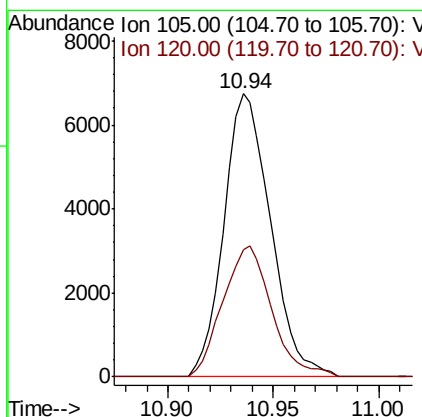
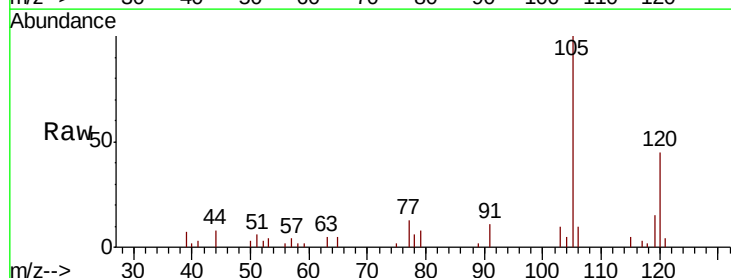
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

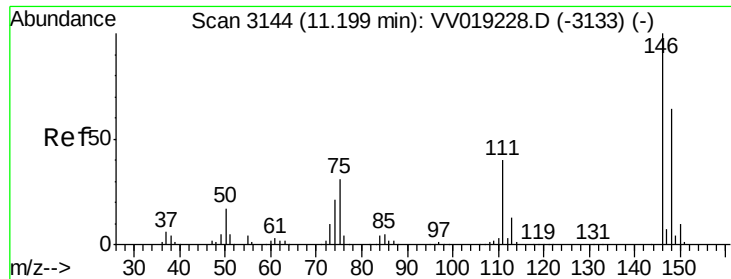
Tot Ion:105 Resp: 11202
 Ion Ratio Lower Upper
 105 100
 120 50.1 38.3 57.5



#63
 1,2,4-Trimethylbenzene
 Concen: 2.037 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion:105 Resp: 10358
 Ion Ratio Lower Upper
 105 100
 120 48.3 35.7 53.5

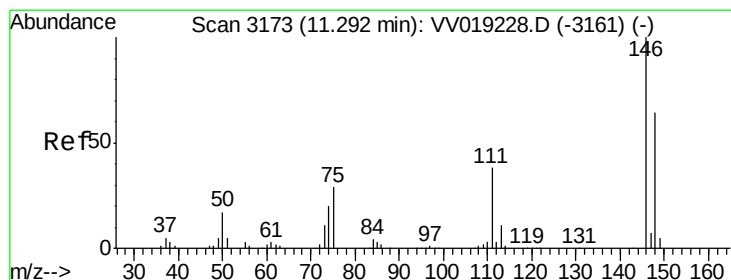
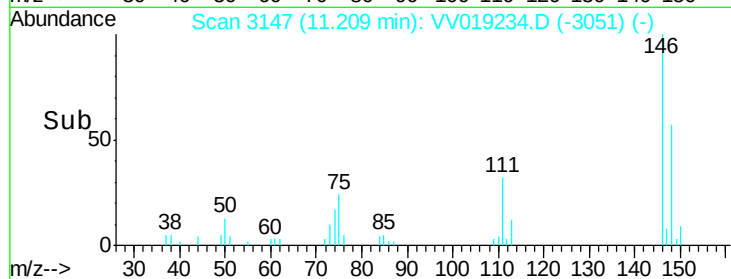
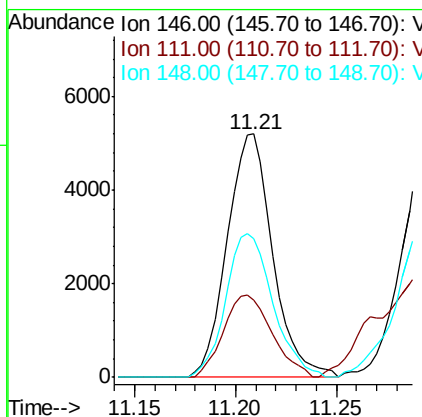
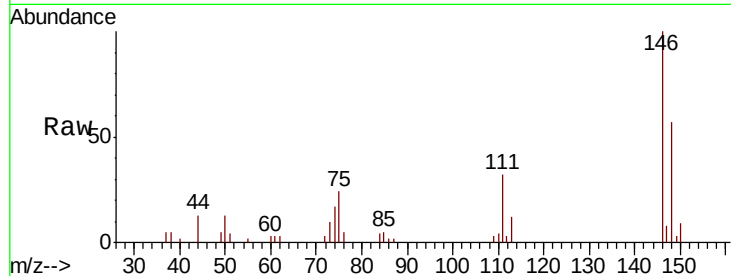




#64
 1,3-Dichlorobenzene
 Concen: 2.519 ug/L
 RT: 11.21 min Scan# 3147
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

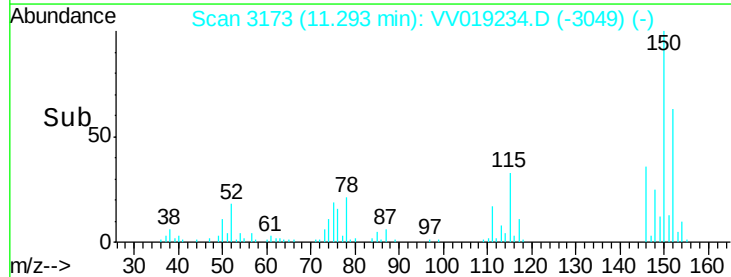
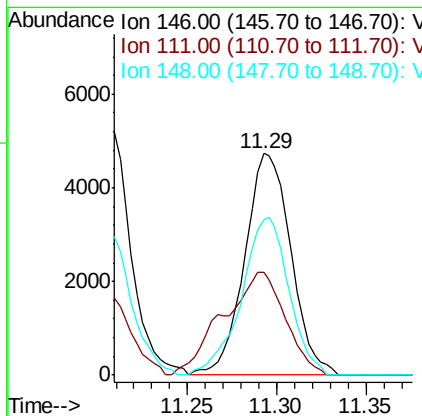
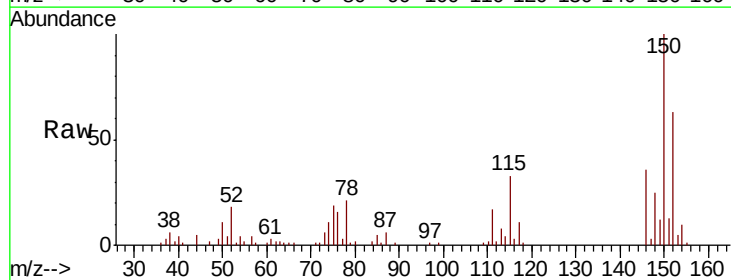
Instrument :
 MSVOA_V
 ClientSampled :
 MDL-WATER-05

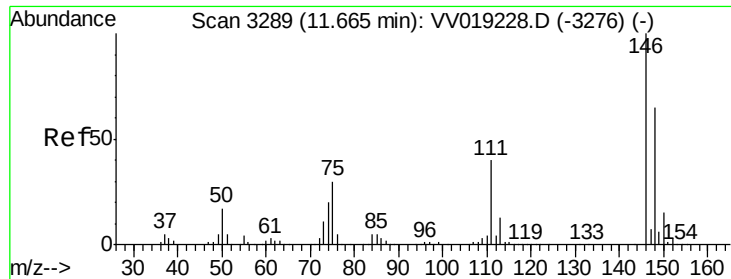
Tot Ion:146 Resp: 8221
 Ion Ratio Lower Upper
 146 100
 111 31.9 27.3 50.7
 148 57.0 45.2 84.0



#65
 1,4-Dichlorobenzene
 Concen: 2.543 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion:146 Resp: 8587
 Ion Ratio Lower Upper
 146 100
 111 46.5 25.9 48.1
 148 70.1 44.9 83.5

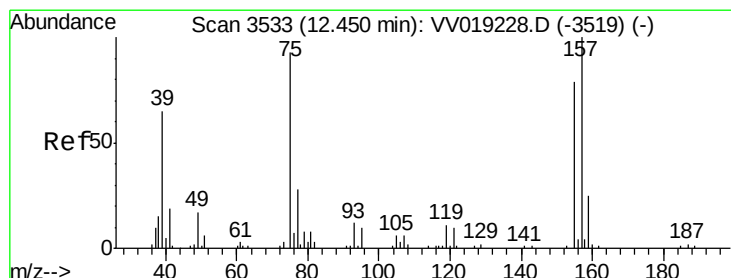
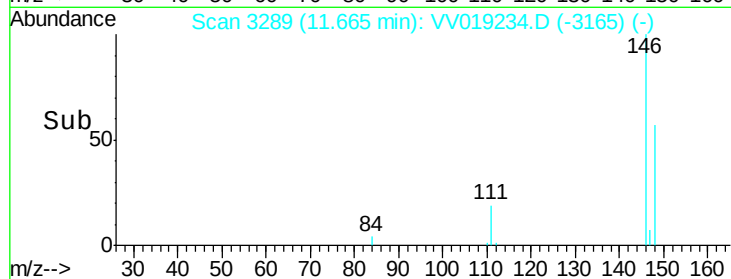
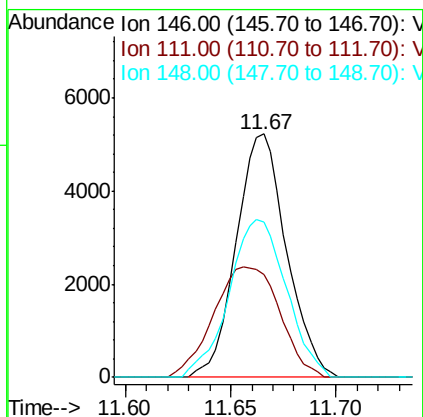
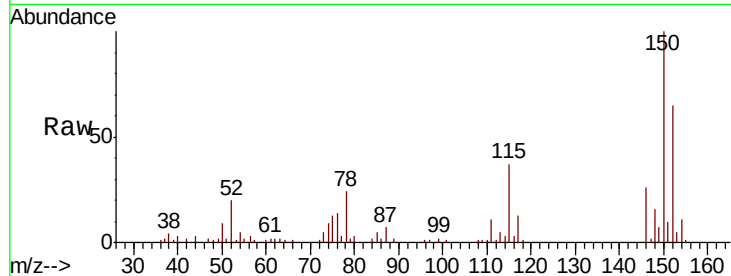




#67
 1,2-Dichlorobenzene
 Concen: 2.591 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

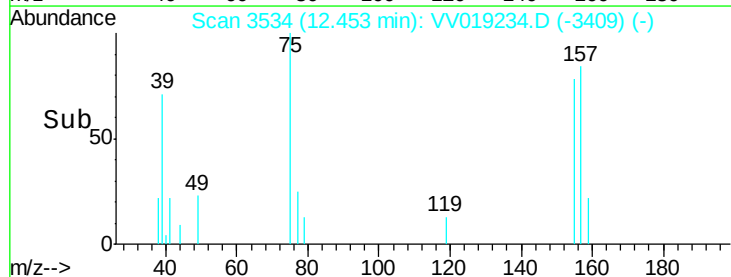
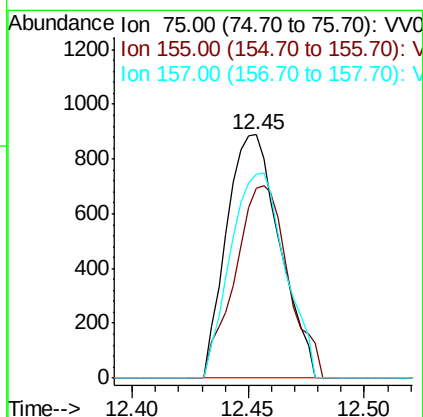
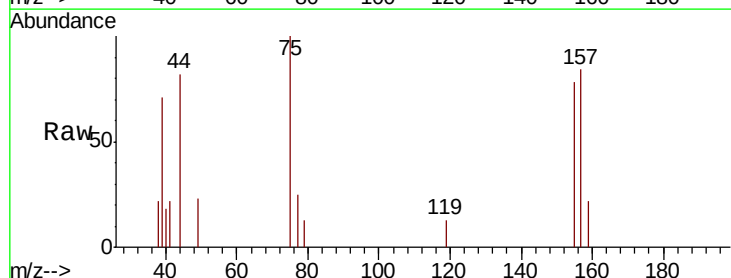
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

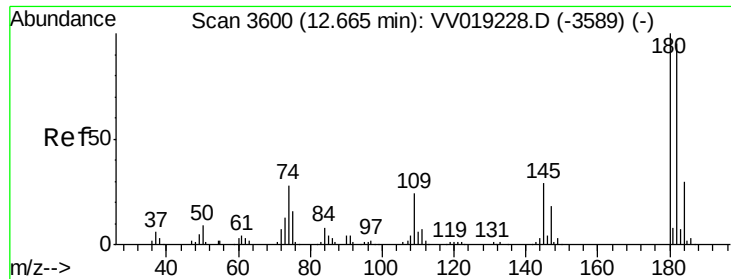
Tot Ion:146 Resp: 8653
 Ion Ratio Lower Upper
 146 100
 111 42.4 32.6 48.8
 148 63.7 50.1 75.1



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.615 ug/L
 RT: 12.45 min Scan# 3534
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion: 75 Resp: 1411
 Ion Ratio Lower Upper
 75 100
 155 77.8 65.8 98.6
 157 83.8 86.3 129.5#

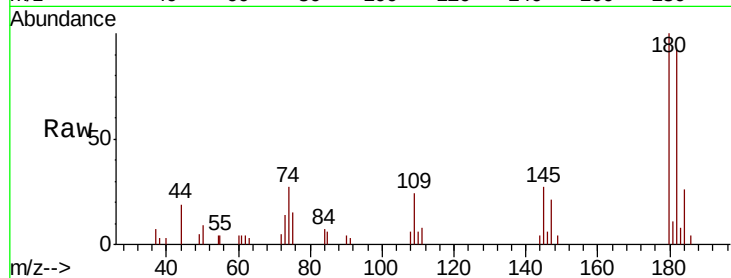




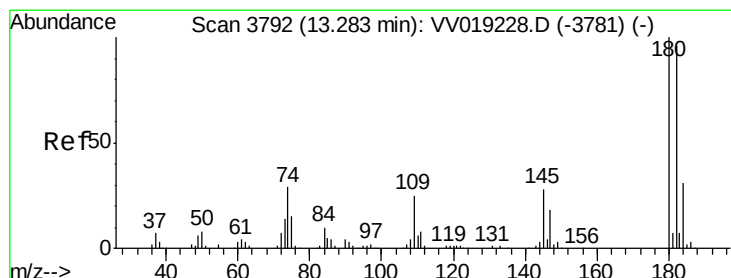
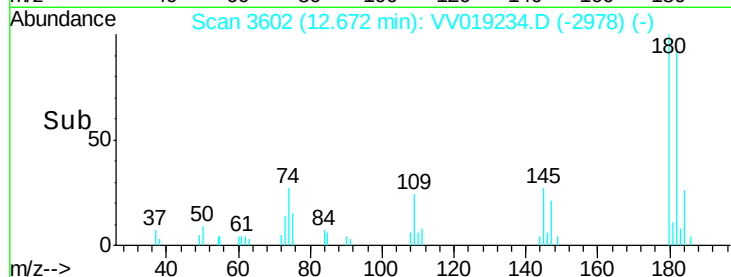
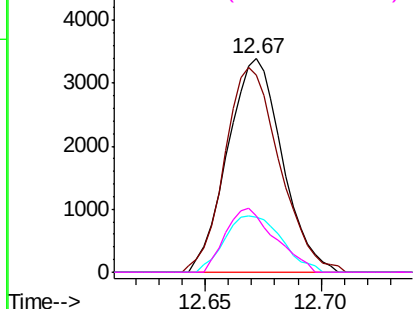
#69
 1,3,5-Trichlorobenzene
 Concen: 2.368 ug/L
 RT: 12.67 min Scan# 3602
 Delta R.T. 0.01 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion:180 Resp: 5547
 Ion Ratio Lower Upper
 180 100
 182 96.2 77.7 116.5
 184 27.5 24.9 37.3
 145 27.0 23.4 35.0

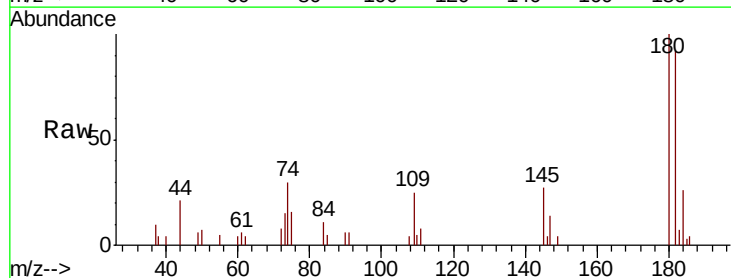


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

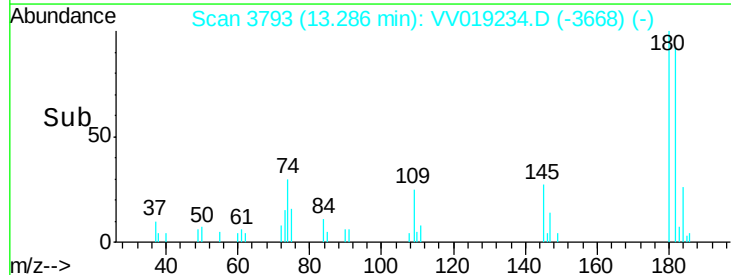
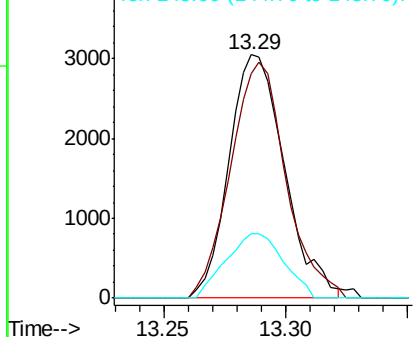


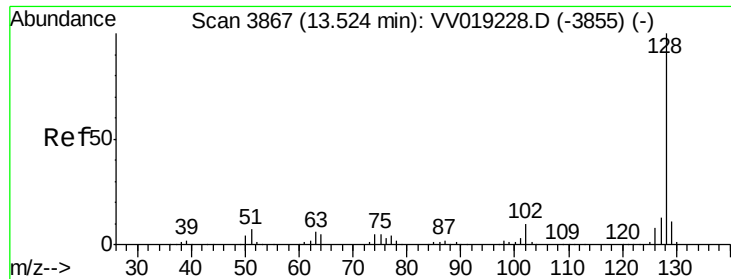
#70
 1,2,4-trichlorobenzene
 Concen: 2.187 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019234.D
 Acq: 03 Nov 2020 14:24

Tgt Ion:180 Resp: 4821
 Ion Ratio Lower Upper
 180 100
 182 96.4 76.6 114.8
 145 27.6 23.2 34.8



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

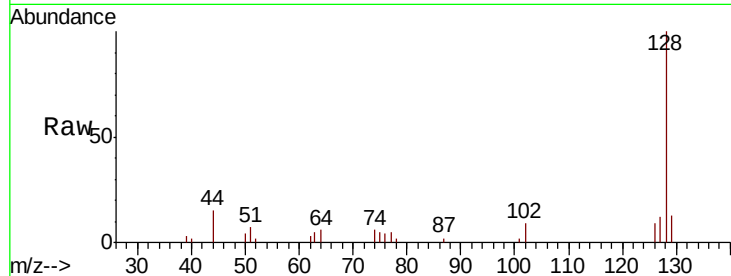




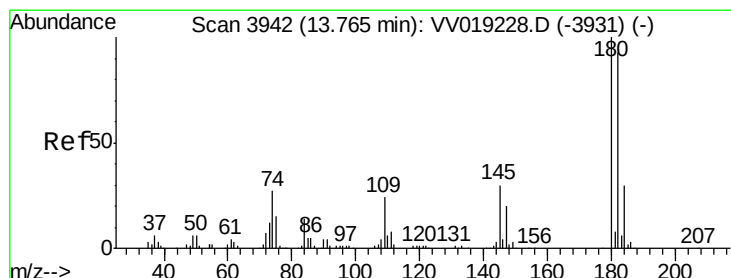
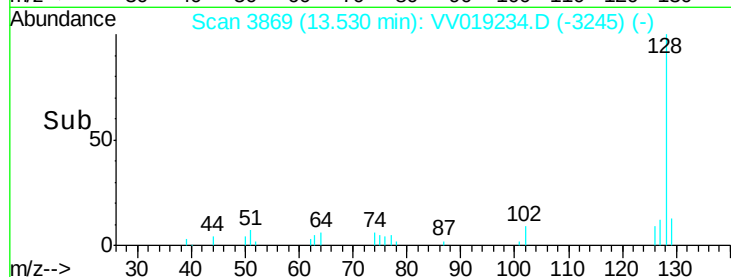
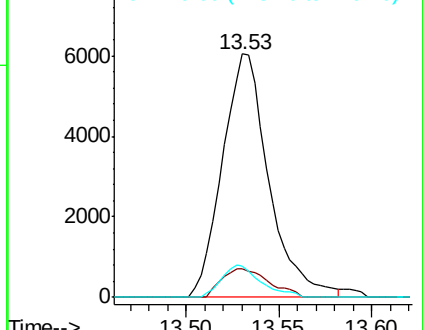
#71
Naphthalene
Concen: 1.693 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion:128 Resp: 10525
Ion Ratio Lower Upper
128 100
127 11.9 10.7 16.1
129 11.3 8.6 13.0

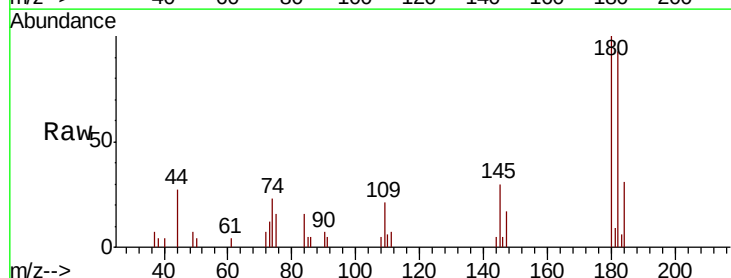


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 2.058 ug/L
RT: 13.77 min Scan# 3944
Delta R.T. 0.01 min
Lab File: VV019234.D
Acq: 03 Nov 2020 14:24

Tgt Ion:180 Resp: 4496
Ion Ratio Lower Upper
180 100
182 96.2 77.4 116.0
145 31.5 24.7 37.1



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

