

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122920\
 Data File : VV019868.D
 Acq On : 29 Dec 2020 17:17
 Operator : SY/MD
 Sample : L4485-03
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-WATER-03

Quant Time: Dec 30 04:50:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR122920WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 30 04:48:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.62	114	277118	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.86	117	260488	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.26	152	120394	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.30	65	96669	4.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.00%
7) Chloroethane-d5	1.56	69	81863	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.40%
11) 1,1-Dichloroethene-d2	2.10	63	149593	3.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.40%
20) 2-Butanone-d5	3.94	46	207401	49.30	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.60%
24) Chloroform-d	4.35	84	171819	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.00%
26) 1,2-Dichloroethane-d4	5.04	65	93536	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%
32) Benzene-d6	5.05	84	350161	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
36) 1,2-Dichloropropane-d6	6.08	67	108003	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.60%
41) Toluene-d8	7.32	98	299049	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
43) trans-1,3-Dichloropropene-	7.63	79	35156	4.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.00%
46) 2-Hexanone-d5	8.10	63	132473	44.02	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.04%
56) 1,1,2,2-Tetrachloroethane-	10.22	84	58370	4.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.00%
66) 1,2-Dichlorobenzene-d4	11.63	152	94674	5.06	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.13	85	5341	0.202	ug/L	96
3) Chloromethane	1.24	50	7007	0.239	ug/L	93
5) Vinyl chloride	1.31	62	6697	0.233	ug/L #	74
6) Bromomethane	1.52	94	4114	0.244	ug/L	84
8) Chloroethane	1.58	64	3878	0.221	ug/L	92
9) Trichlorofluoromethane	1.75	101	7659	0.219	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.11	101	5043	0.268	ug/L	90
12) 1,1-Dichloroethene	2.11	96	5492	0.286	ug/L #	1
14) Carbon disulfide	2.29	76	14617	0.220	ug/L	97
15) Methyl Acetate	2.46	43	1228	0.156	ug/L	95
16) Methylene chloride	2.51	84	7046	0.301	ug/L	98
17) Methyl tert-butyl Ether	2.78	73	10077	0.210	ug/L #	88
18) trans-1,2-Dichloroethene	2.76	96	4613	0.213	ug/L	94
19) 1,1-Dichloroethane	3.19	63	9120	0.217	ug/L	97
22) cis-1,2-Dichloroethene	3.92	96	4528	0.201	ug/L	99
23) Bromochloromethane	4.25	128	2002	0.223	ug/L #	90
25) Chloroform	4.38	83	16172	0.387	ug/L	91

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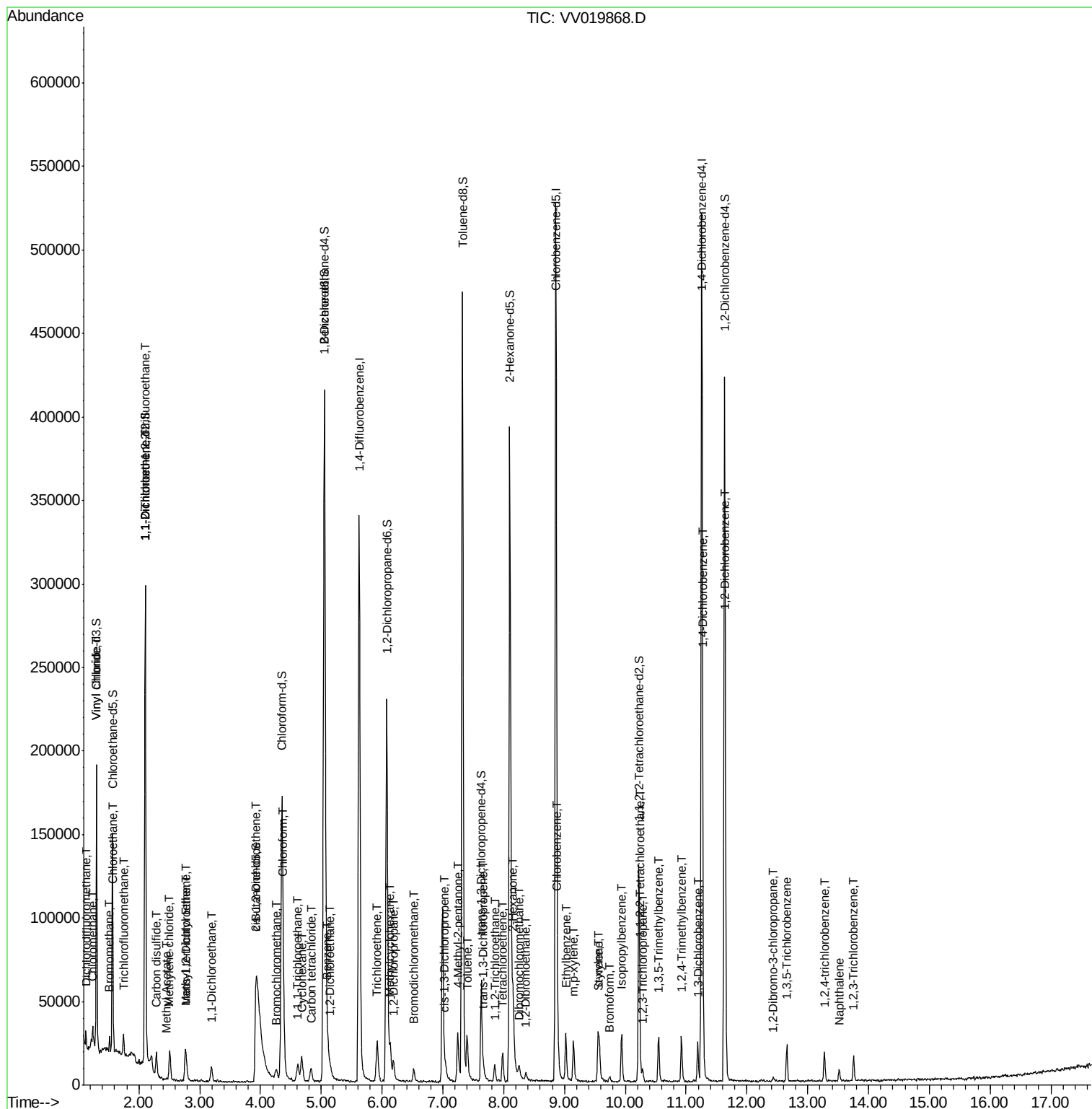
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

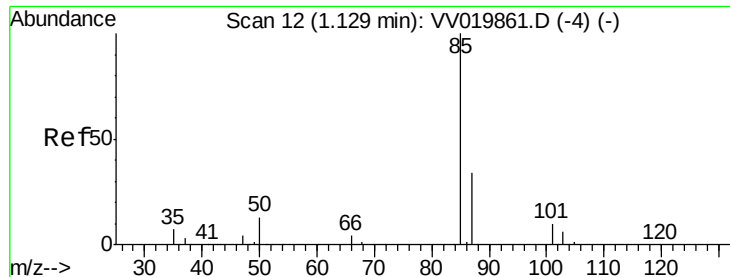
27) 1,2-Dichloroethane	5.15	62	5674	0.223	ug/L	98
29) 1,1,1-Trichloroethane	4.61	97	7340	0.207	ug/L	95
30) Cyclohexane	4.68	56	7334	0.205	ug/L	96
31) Carbon tetrachloride	4.83	117	5986	0.206	ug/L	99
33) Benzene	5.11	78	17755	0.204	ug/L	100
34) Trichloroethene	5.92	95	5524	0.237	ug/L	89
35) Methylcyclohexane	6.13	83	7814	0.224	ug/L	94
37) 1,2-Dichloropropane	6.19	63	4296	0.196	ug/L #	95
38) Bromodichloromethane	6.52	83	5673	0.210	ug/L	99
39) cis-1,3-Dichloropropene	7.04	75	5458	0.182	ug/L	86
40) 4-Methyl-2-pentanone	7.24	43	23916	1.936	ug/L #	88
42) Toluene	7.40	91	19809	0.224	ug/L	94
44) trans-1,3-Dichloropropene	7.67	75	5048	0.205	ug/L	89
45) 1,1,2-Trichloroethane	7.85	97	3179	0.225	ug/L	89
47) Tetrachloroethene	7.98	164	3694	0.233	ug/L	94
48) 2-Hexanone	8.15	43	34476	4.027	ug/L #	91
49) Dibromochloromethane	8.25	129	2846	0.186	ug/L	97
50) 1,2-Dibromoethane	8.36	107	2920	0.227	ug/L #	99
51) Chlorobenzene	8.89	112	12275	0.219	ug/L	98
52) Ethylbenzene	9.02	91	19567	0.199	ug/L	99
53) m,p-xylene	9.15	106	7148	0.199	ug/L	97
54) o-xylene	9.55	106	7159	0.208	ug/L	99
55) Styrene	9.57	104	10101	0.174	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.25	83	3336	0.223	ug/L #	96
59) Bromoform	9.75	173	1326	0.203	ug/L #	81
60) Isopropylbenzene	9.94	105	18154	0.207	ug/L	98
61) 1,2,3-Trichloropropane	10.29	75	2593	0.223	ug/L	93
62) 1,3,5-Trimethylbenzene	10.55	105	13763	0.190	ug/L	99
63) 1,2,4-Trimethylbenzene	10.93	105	14356	0.194	ug/L	99
64) 1,3-Dichlorobenzene	11.19	146	8733	0.227	ug/L	94
65) 1,4-Dichlorobenzene	11.28	146	9428	0.244	ug/L	96
67) 1,2-Dichlorobenzene	11.65	146	8137	0.230	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.44	75	514	0.214	ug/L	89
69) 1,3,5-Trichlorobenzene	12.66	180	5495	0.193	ug/L	89
70) 1,2,4-trichlorobenzene	13.28	180	4622	0.199	ug/L	92
71) Naphthalene	13.52	128	5246	0.150	ug/L #	93
72) 1,2,3-Trichlorobenzene	13.75	180	3890	0.197	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 0.202 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

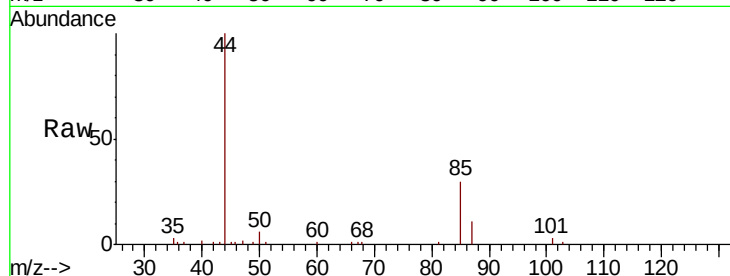
MDL-WATER-03

Tot Ion: 85 Resp: 5341

Ion Ratio Lower Upper

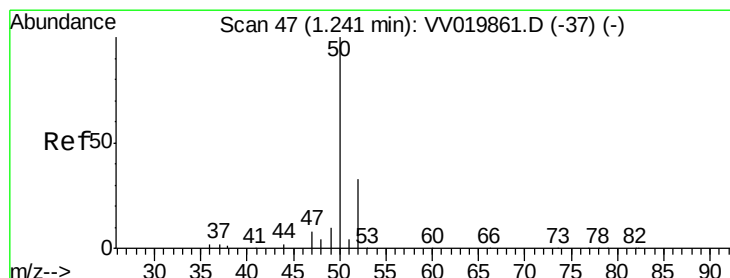
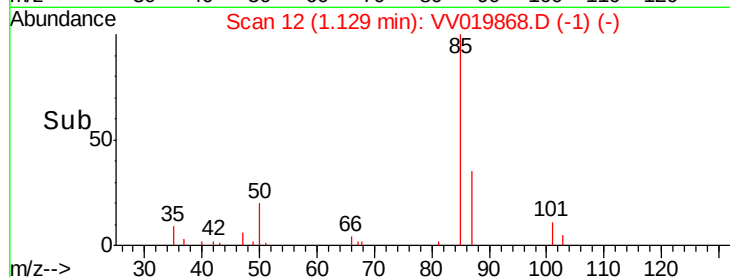
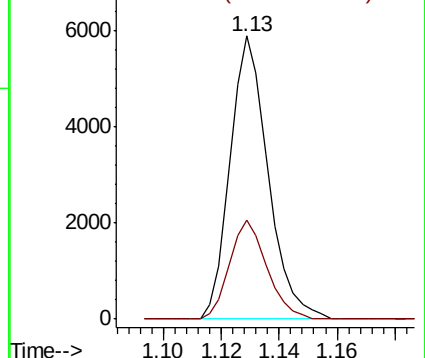
85 100

87 34.3 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV019868.D (-4) (-)

Ion 87.00 (86.70 to 87.70): VV019868.D (-4) (-)



#3

Chloromethane

Concen: 0.239 ug/L

RT: 1.24 min Scan# 46

Delta R.T. -0.00 min

Lab File: VV019868.D

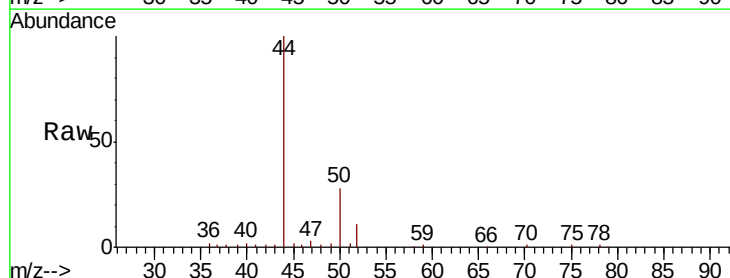
Acq: 29 Dec 2020 17:17

Tgt Ion: 50 Resp: 7007

Ion Ratio Lower Upper

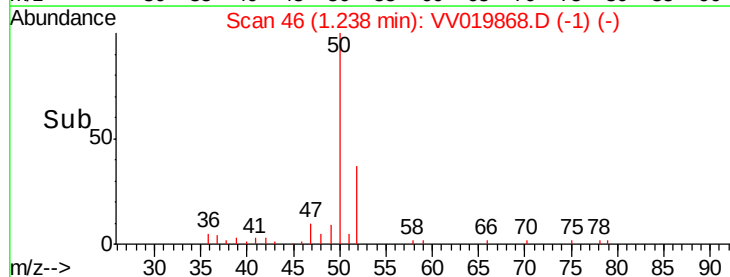
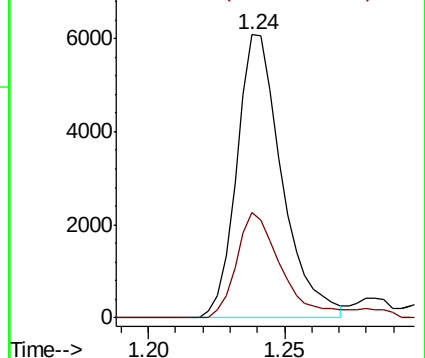
50 100

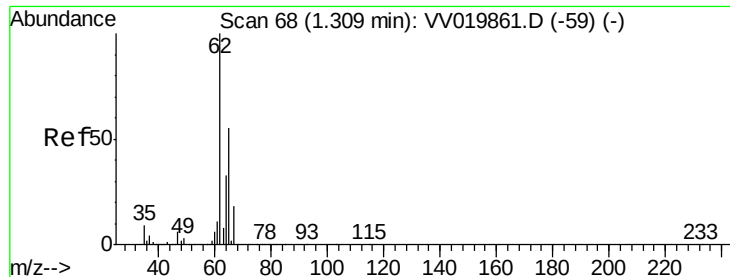
52 37.2 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV019868.D (-37) (-)

Ion 52.05 (51.75 to 52.75): VV019868.D (-37) (-)





#5

Vinyl chloride

Concen: 0.233 ug/L

RT: 1.31 min Scan# 67

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

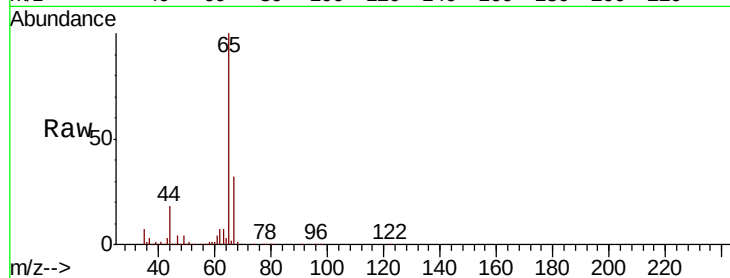
MDL-WATER-03

Tot Ion: 62 Resp: 6697

Ion Ratio Lower Upper

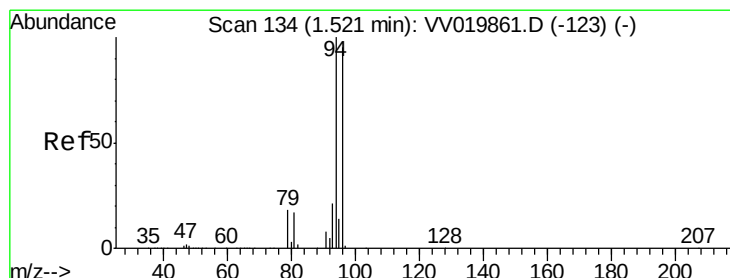
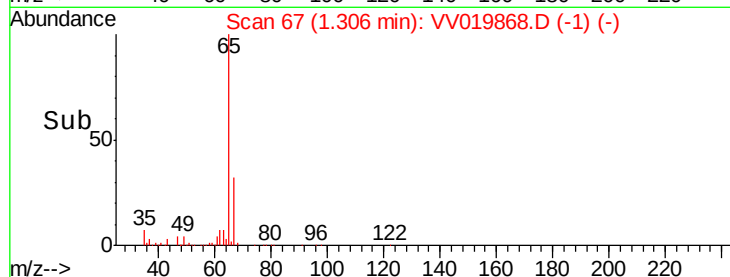
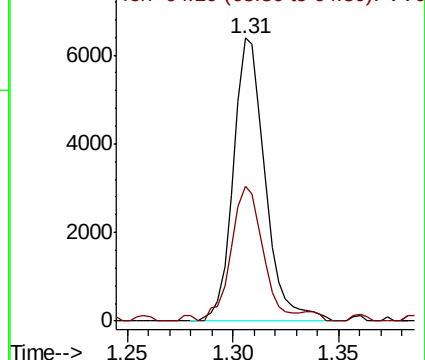
62 100

64 47.7 23.2 43.2#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 0.244 ug/L

RT: 1.52 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV019868.D

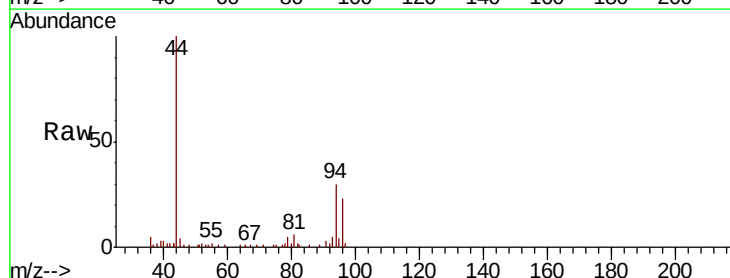
Acq: 29 Dec 2020 17:17

Tgt Ion: 94 Resp: 4114

Ion Ratio Lower Upper

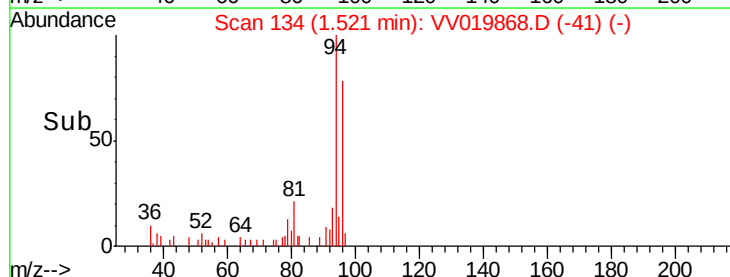
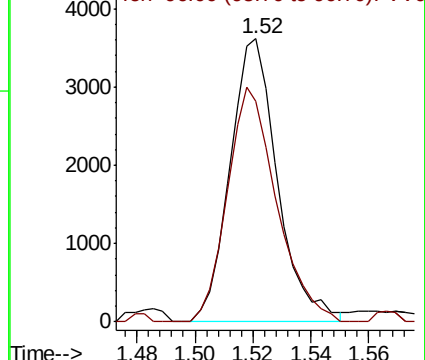
94 100

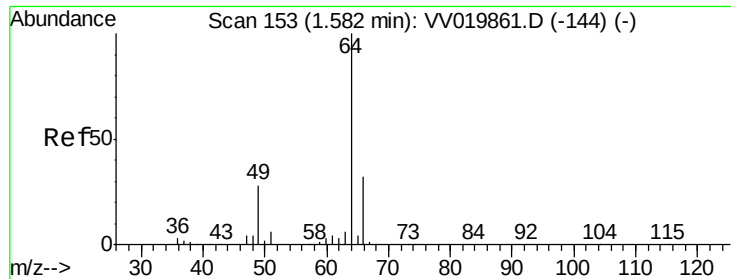
96 78.2 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 0.221 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

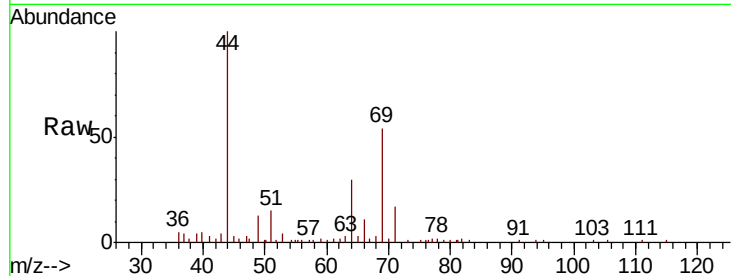
MDL-WATER-03

Tot Ion: 64 Resp: 3878

Ion Ratio Lower Upper

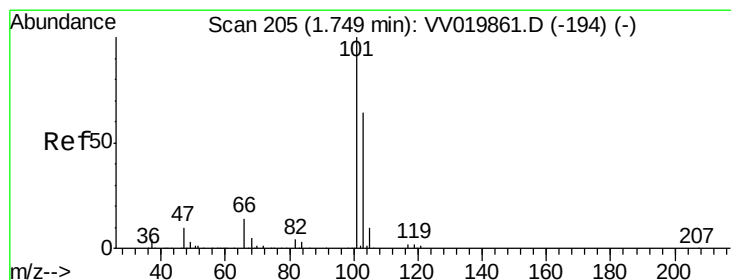
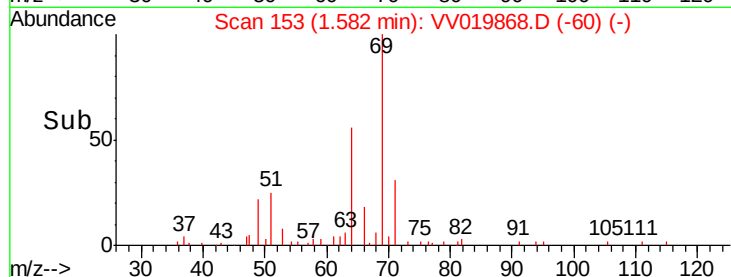
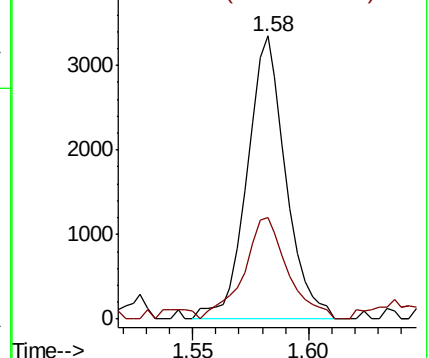
64 100

66 35.9 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VV019868.D (-144) (-)

Ion 66.05 (65.75 to 66.75): VV019868.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 0.219 ug/L

RT: 1.75 min Scan# 205

Delta R.T. -0.00 min

Lab File: VV019868.D

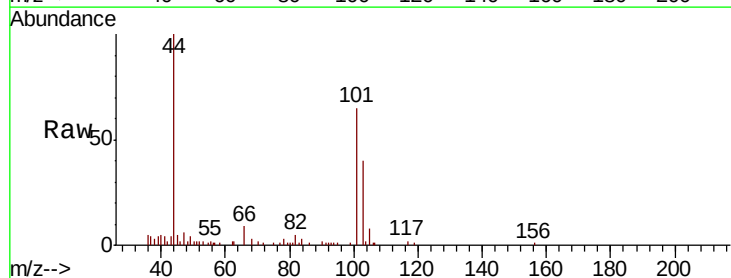
Acq: 29 Dec 2020 17:17

Tgt Ion: 101 Resp: 7659

Ion Ratio Lower Upper

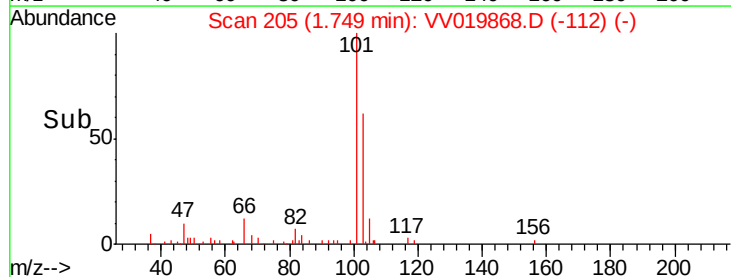
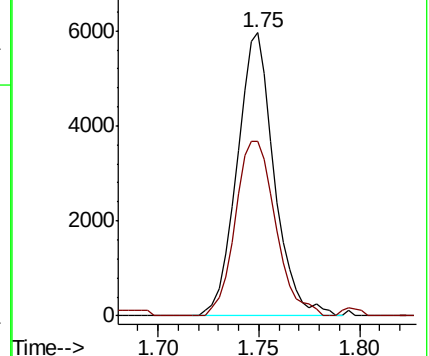
101 100

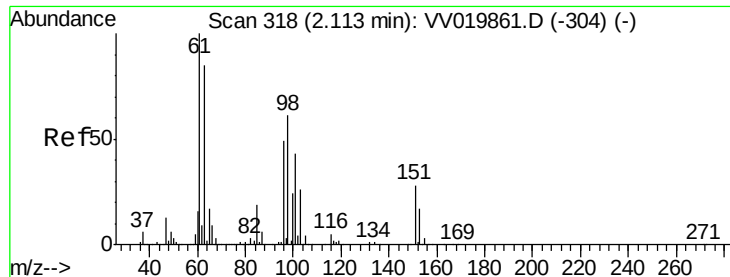
103 67.2 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV019868.D (-194) (-)

Ion 103.00 (102.70 to 103.70): VV019868.D (-194) (-)





#10

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

Concen: 0.268 ug/L

RT: 2.11 min Scan# 317

Delta R.T. -0.00 min

Lab File: VV019868.D

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MDL-WATER-03

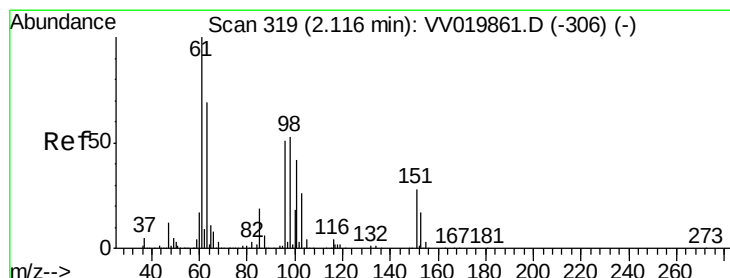
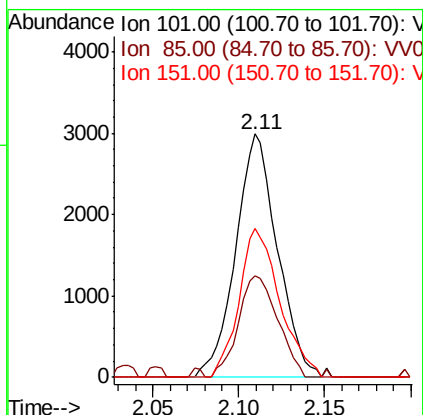
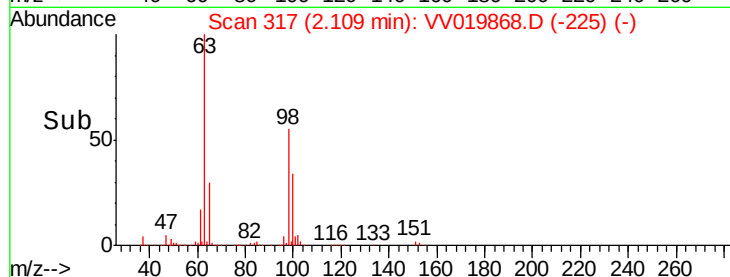
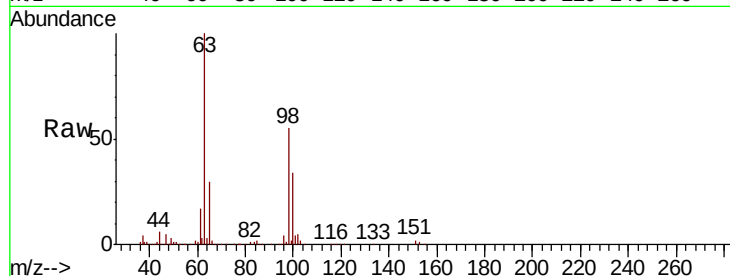
Tot Ion:101 Resp: 5043

Ion Ratio Lower Upper

101 100

85 39.1 36.4 54.6

151 59.5 54.1 81.1



#12

1,1-Dichloroethene

Concen: 0.286 ug/L

RT: 2.11 min Scan# 318

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

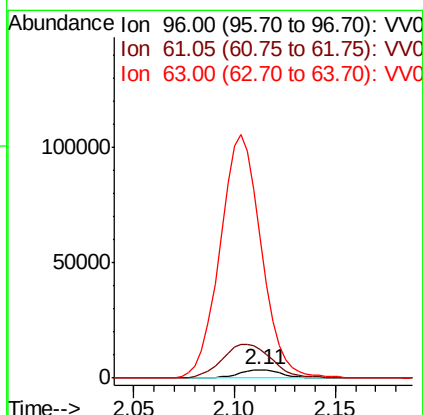
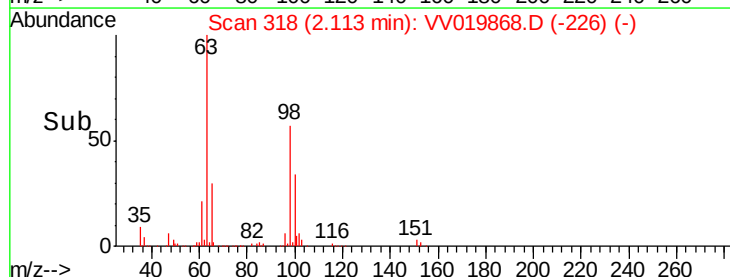
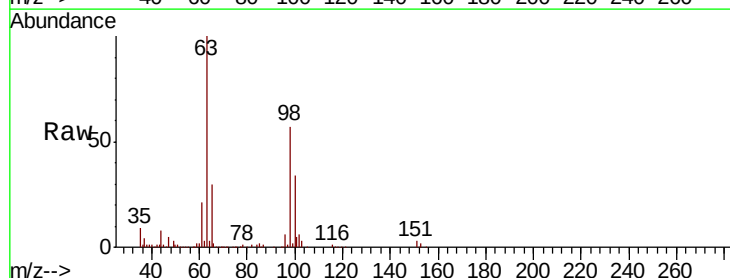
Tgt Ion: 96 Resp: 5492

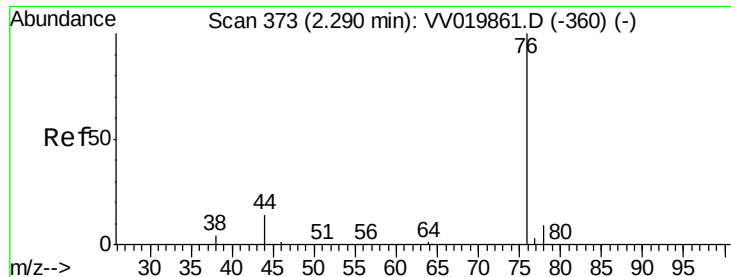
Ion Ratio Lower Upper

96 100

61 350.6 131.5 244.1#

63 1679.5 95.2 176.8#





#14

Carbon disulfide

Concen: 0.220 ug/L

RT: 2.29 min Scan# 373

Delta R.T. -0.00 min

Lab File: VV019868.D

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ClientSampleId :

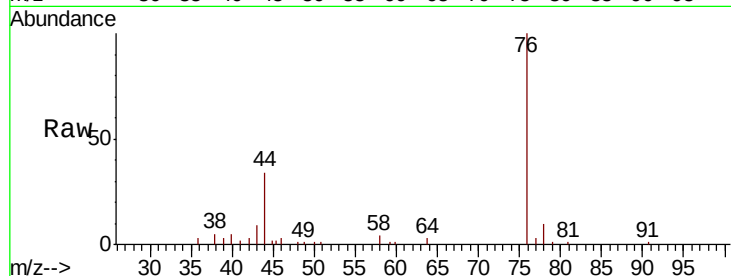
MDL-WATER-03

Tot Ion: 76 Resp: 14617

Ion Ratio Lower Upper

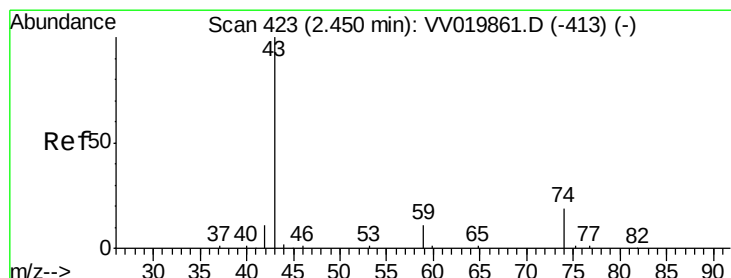
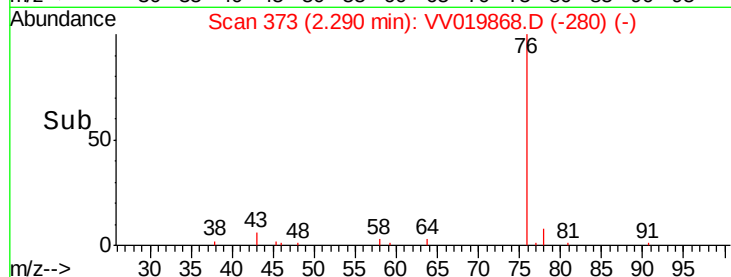
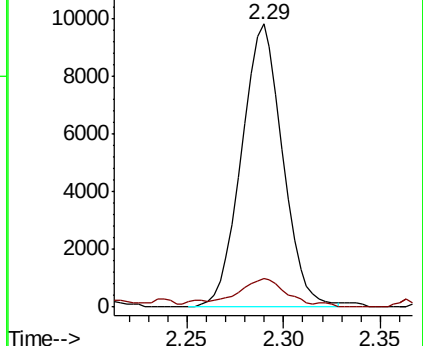
76 100

78 9.9 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#15

Methyl Acetate

Concen: 0.156 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV019868.D

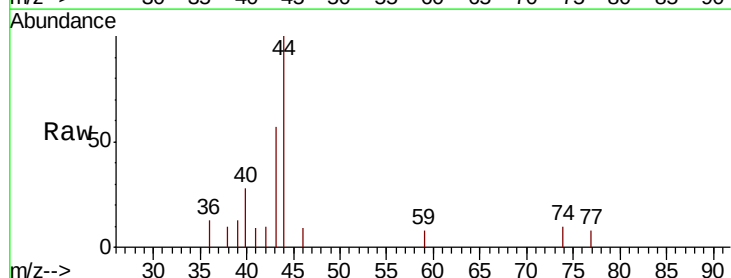
Acq: 29 Dec 2020 17:17

Tgt Ion: 43 Resp: 1228

Ion Ratio Lower Upper

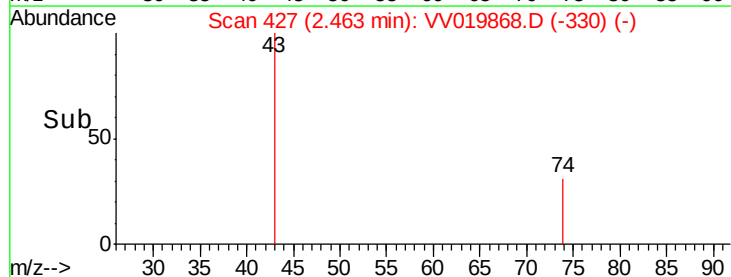
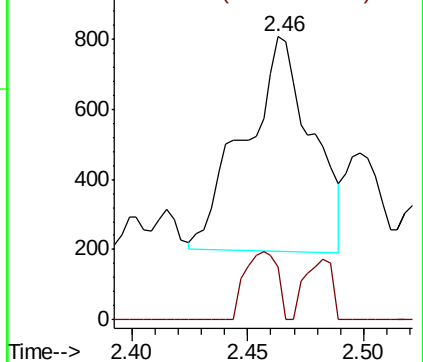
43 100

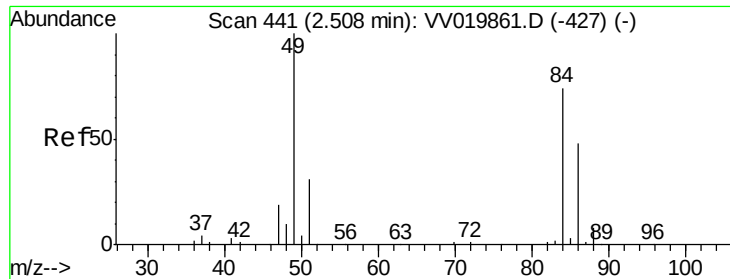
74 15.5 10.6 16.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

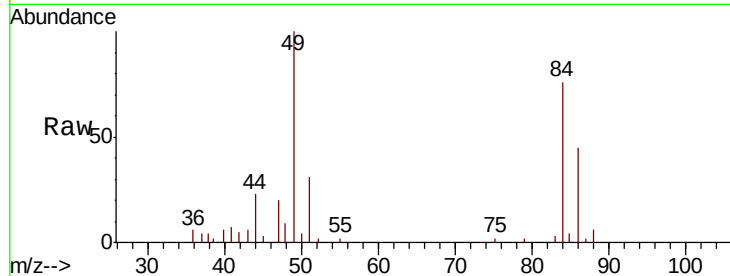




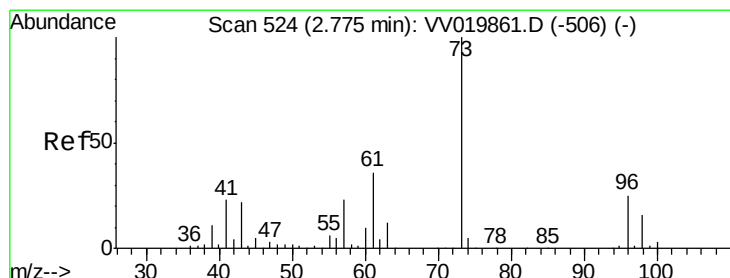
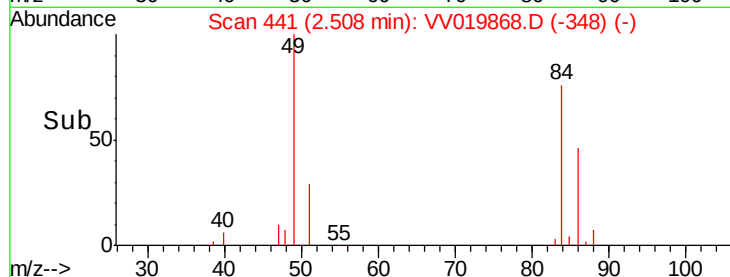
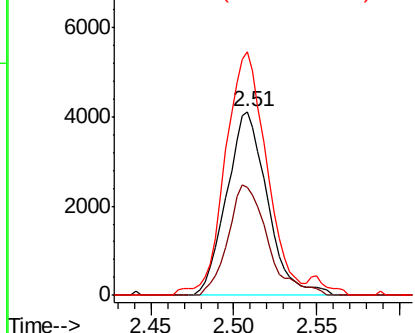
#16
Methylene chloride
Concen: 0.301 ug/L
RT: 2.51 min Scan# 441
Delta R.T. -0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion: 84 Resp: 7046
Ion Ratio Lower Upper
84 100
86 58.9 42.8 79.4
49 132.3 93.9 174.3

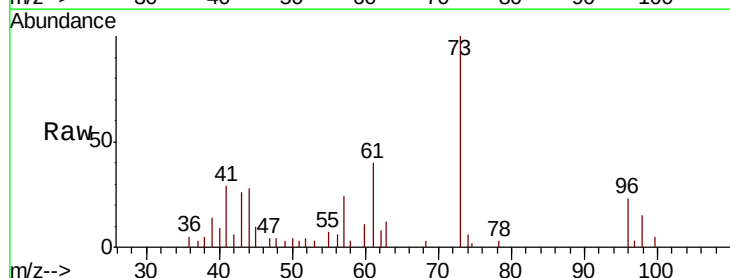


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

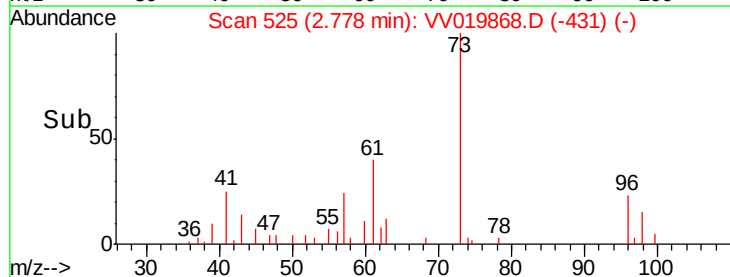
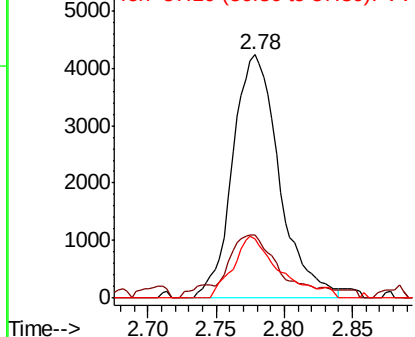


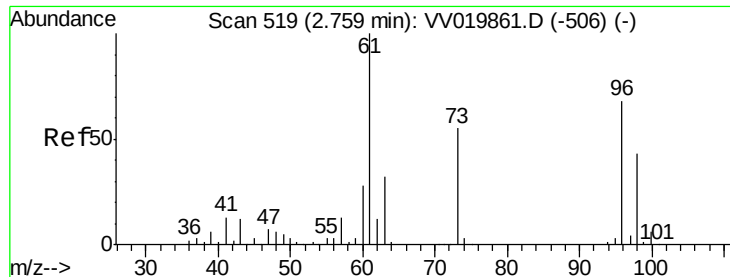
#17
Methyl tert-butyl Ether
Concen: 0.210 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion: 73 Resp: 10077
Ion Ratio Lower Upper
73 100
43 31.0 17.0 25.6#
57 25.2 18.2 27.4



Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

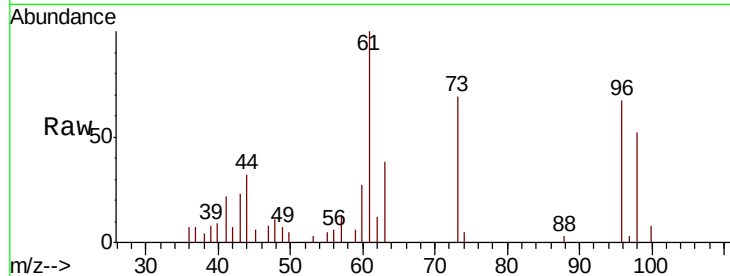




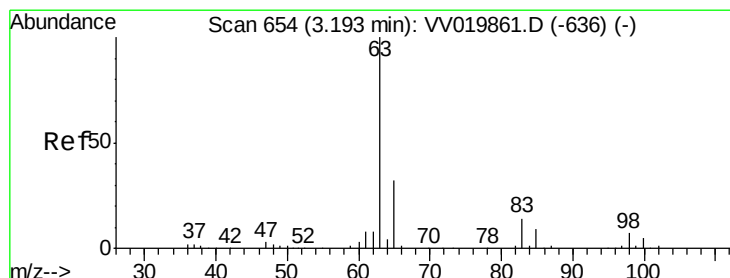
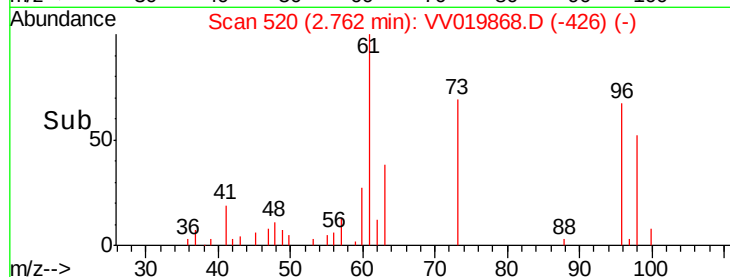
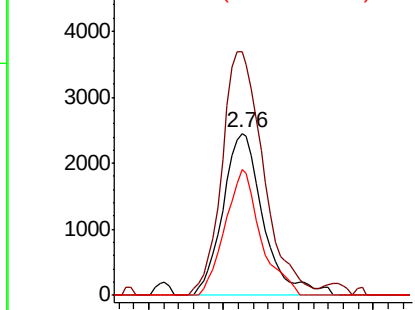
#18
trans-1,2-Dichloroethene
Concen: 0.213 ug/L
RT: 2.76 min Scan# 520
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion: 96 Resp: 4613
Ion Ratio Lower Upper
96 100
61 150.1 106.3 197.3
98 77.5 44.7 82.9

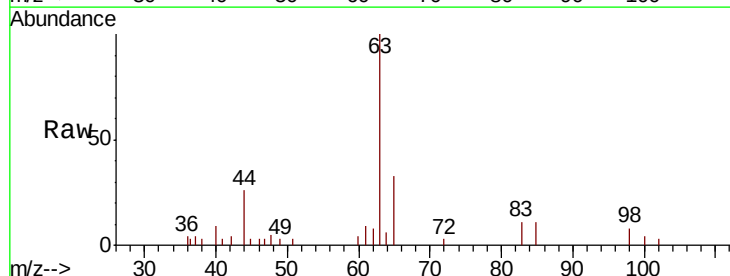


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

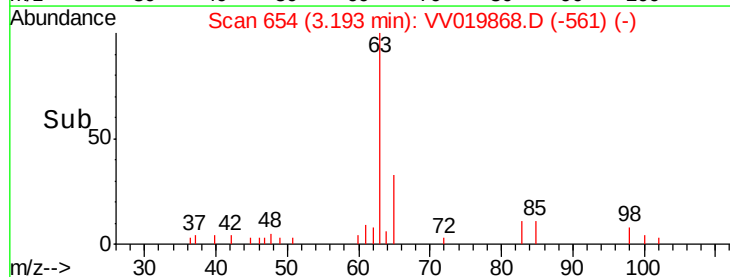
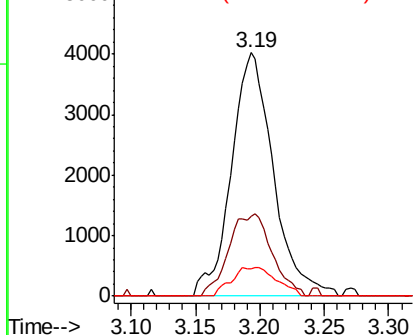


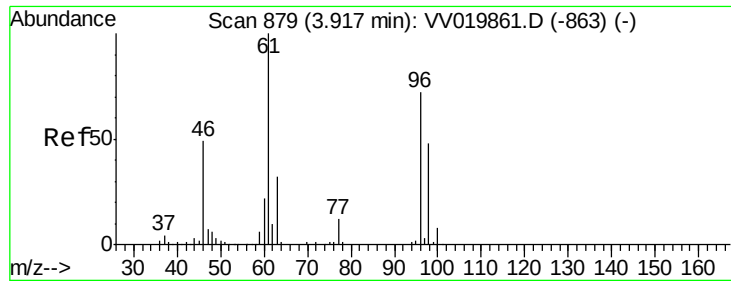
#19
1,1-Dichloroethane
Concen: 0.217 ug/L
RT: 3.19 min Scan# 654
Delta R.T. -0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion: 63 Resp: 9120
Ion Ratio Lower Upper
63 100
65 32.9 21.8 40.6
83 11.0 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



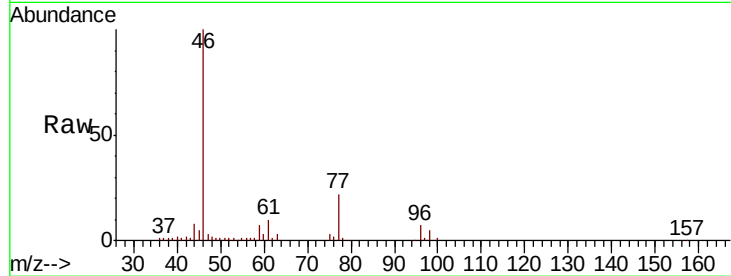


#22

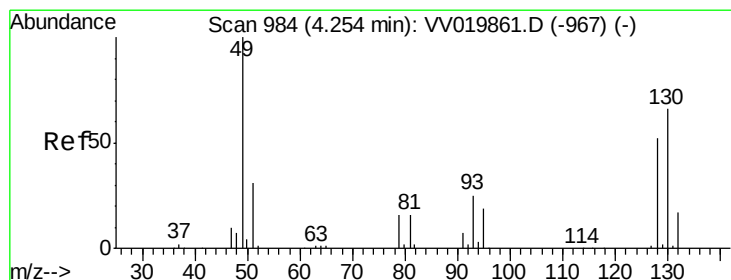
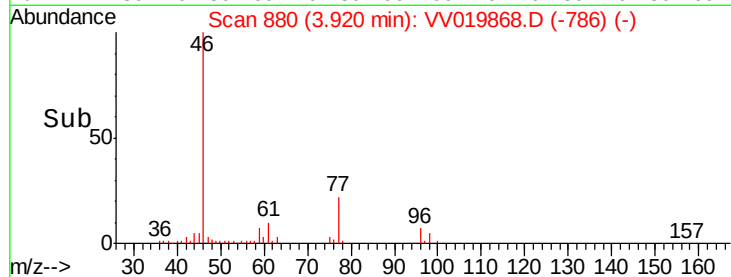
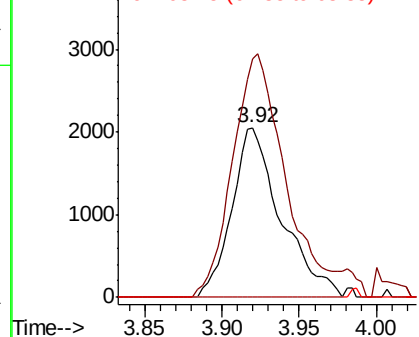
cis-1,2-Dichloroethene
Concen: 0.201 ug/L
RT: 3.92 min Scan# 880
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion: 96 Resp: 4528
Ion Ratio Lower Upper
96 100
61 140.9 98.1 182.3
68 0.0 0.0 0.0



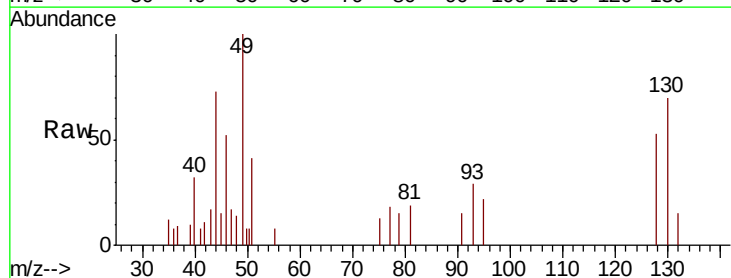
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



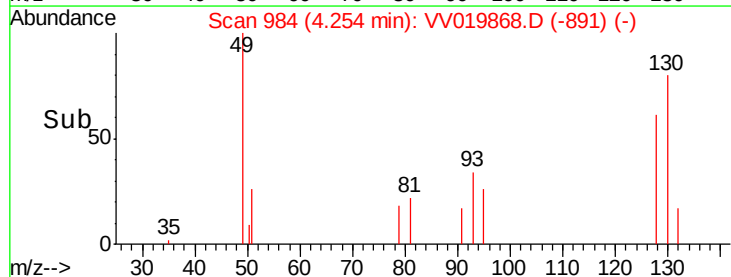
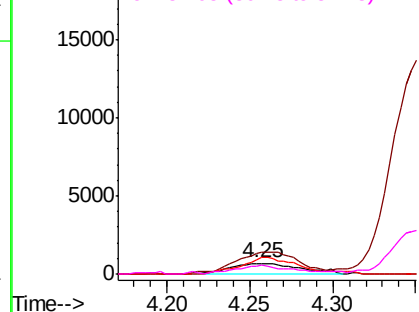
#23

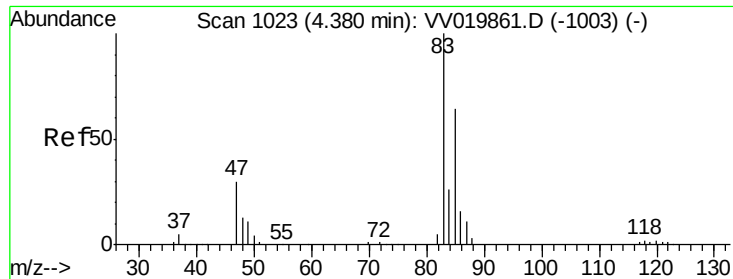
Bromochloromethane
Concen: 0.223 ug/L
RT: 4.25 min Scan# 984
Delta R.T. -0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion: 128 Resp: 2002
Ion Ratio Lower Upper
128 100
49 202.2 132.6 246.2
130 131.0 86.4 160.4
51 76.3 48.0 72.0#



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0

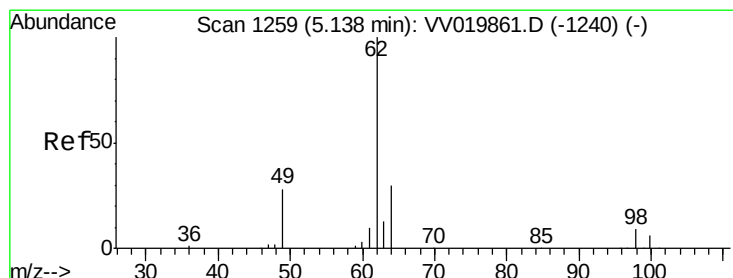
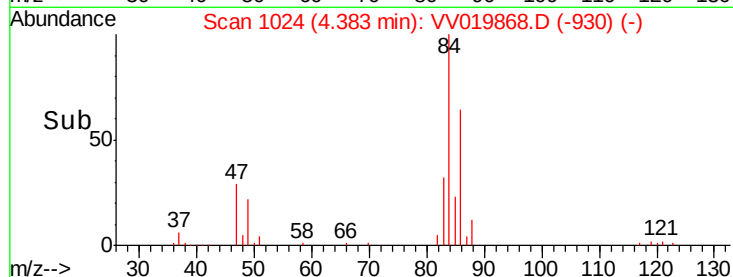
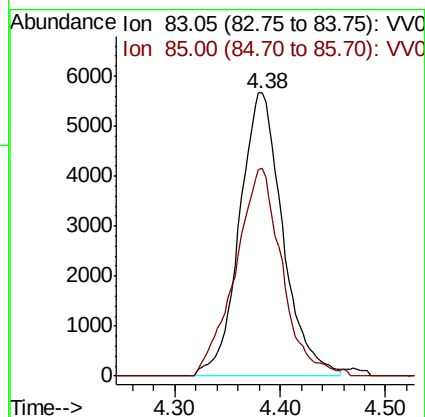
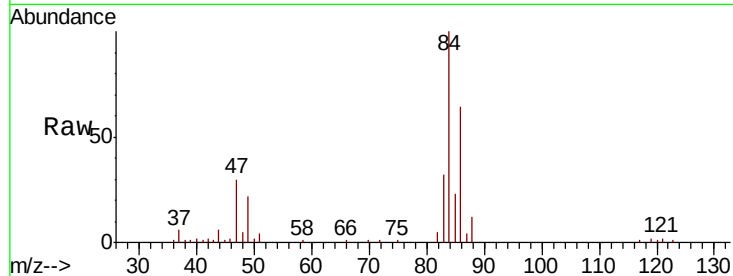




#25
Chloroform
Concen: 0.387 ug/L
RT: 4.38 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

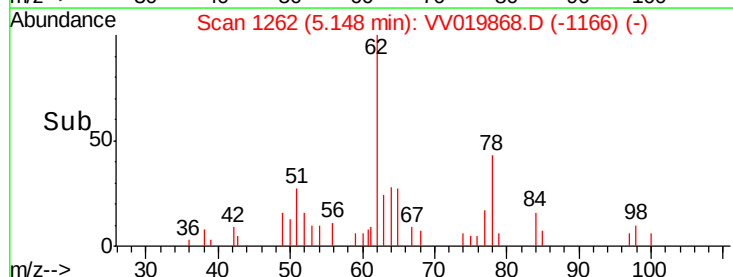
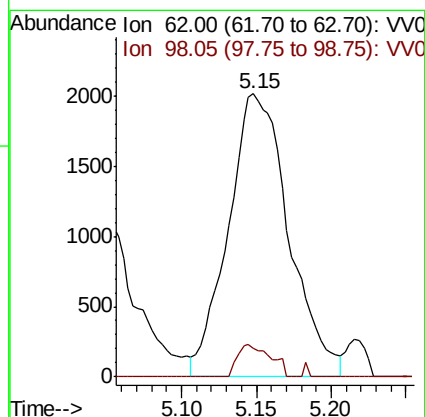
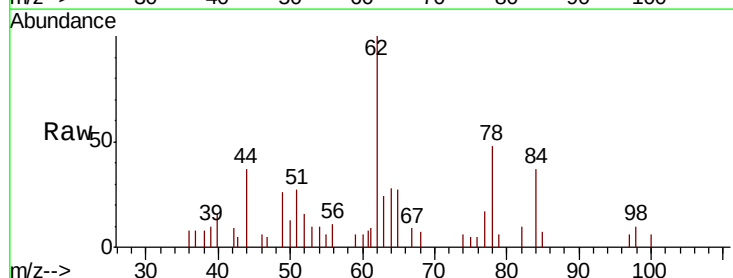
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

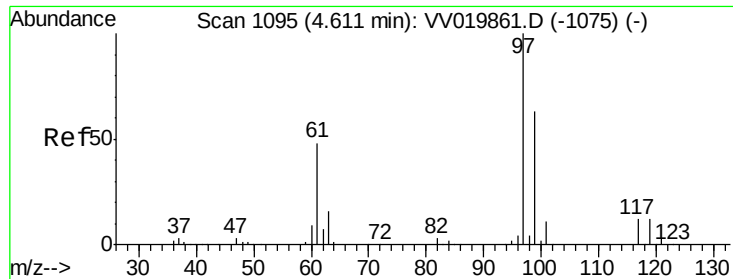
Tot Ion: 83 Resp: 16172
Ion Ratio Lower Upper
83 100
85 73.2 46.4 86.2



#27
1,2-Dichloroethane
Concen: 0.223 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion: 62 Resp: 5674
Ion Ratio Lower Upper
62 100
98 10.2 7.6 11.4

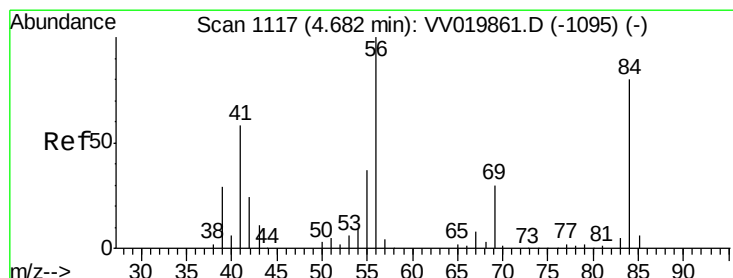
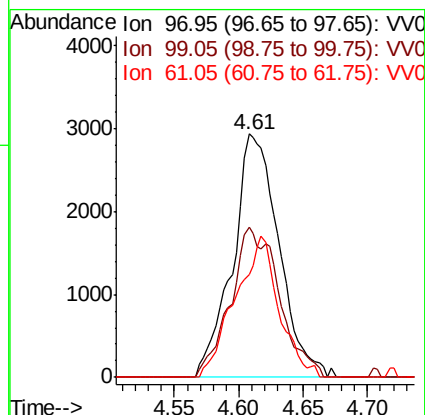
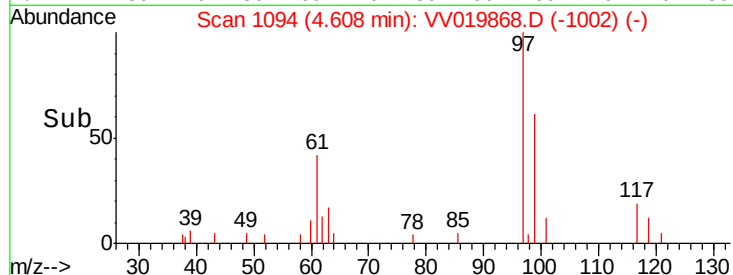
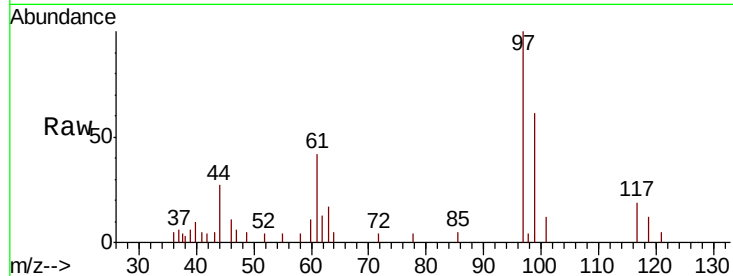




#29
1,1,1-Trichloroethane
Concen: 0.207 ug/L
RT: 4.61 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

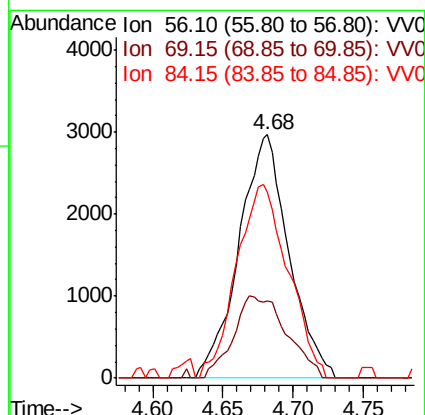
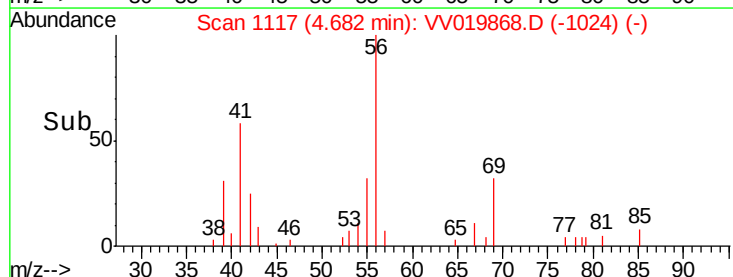
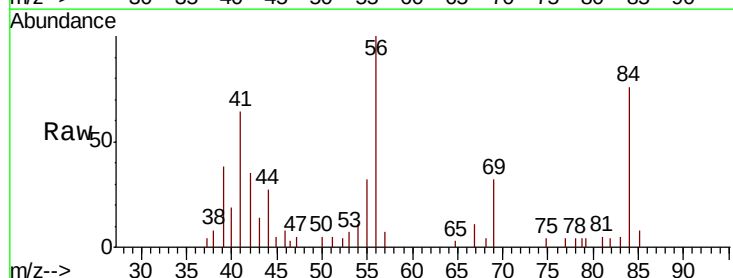
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

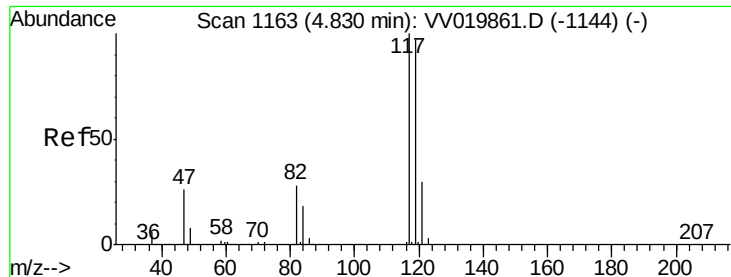
Tot Ion: 97 Resp: 7340
Ion Ratio Lower Upper
97 100
99 64.9 51.1 76.7
61 54.7 38.6 57.8



#30
Cyclohexane
Concen: 0.205 ug/L
RT: 4.68 min Scan# 1117
Delta R.T. -0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion: 56 Resp: 7334
Ion Ratio Lower Upper
56 100
69 35.9 24.1 36.1
84 82.1 66.8 100.2





#31

Carbon tetrachloride

Concen: 0.206 ug/L

RT: 4.83 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

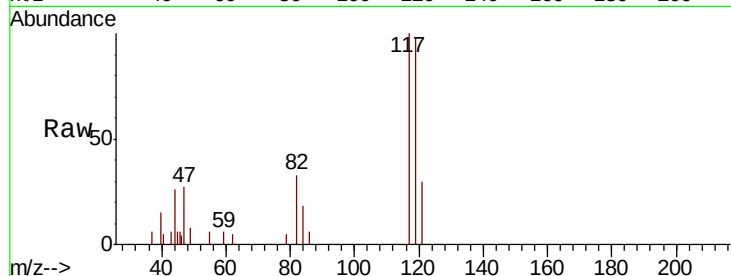
MDL-WATER-03

Tot Ion:117 Resp: 5986

Ion Ratio Lower Upper

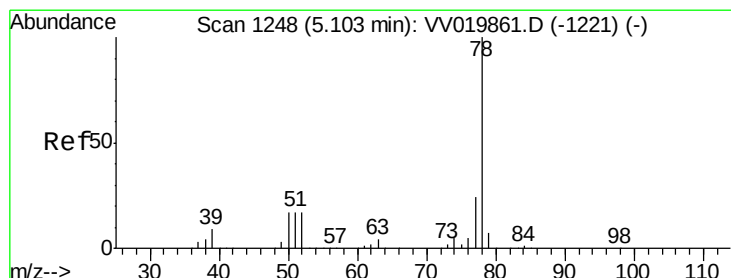
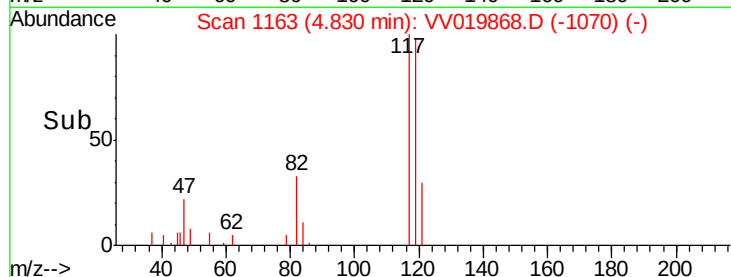
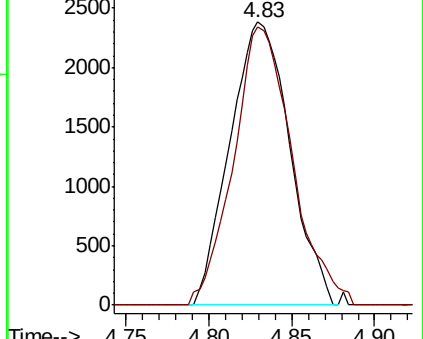
117 100

119 96.3 76.0 114.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.204 ug/L

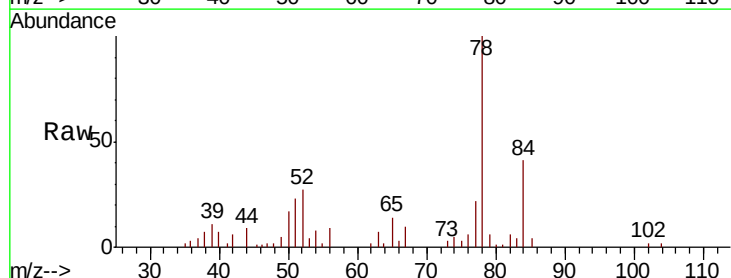
RT: 5.11 min Scan# 1250

Delta R.T. 0.01 min

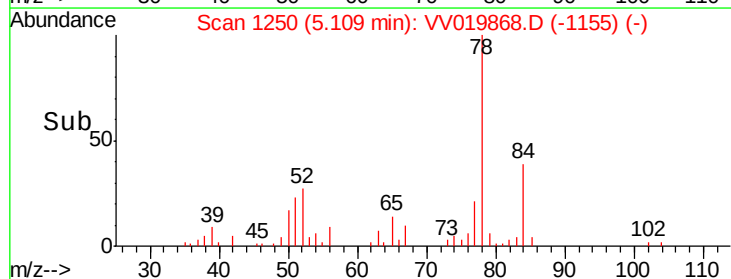
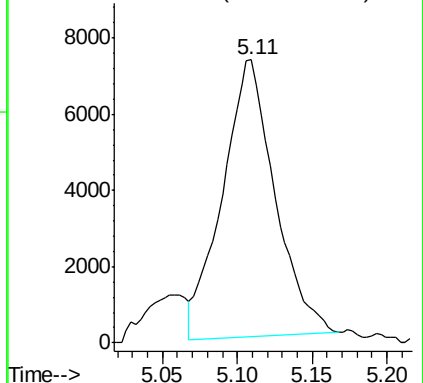
Lab File: VV019868.D

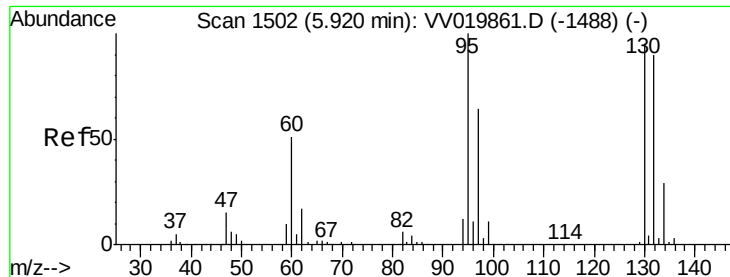
Acq: 29 Dec 2020 17:17

Tgt Ion: 78 Resp: 17755



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.237 ug/L

RT: 5.92 min Scan# 1502

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

Tot Ion: 95 Resp: 5524

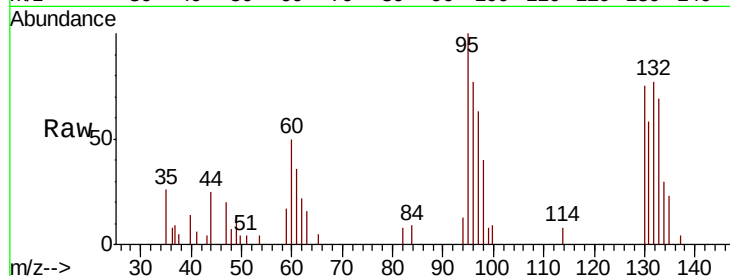
Ion Ratio Lower Upper

95 100

97 63.0 44.1 81.9

132 76.6 61.2 113.8

130 75.1 65.1 120.9

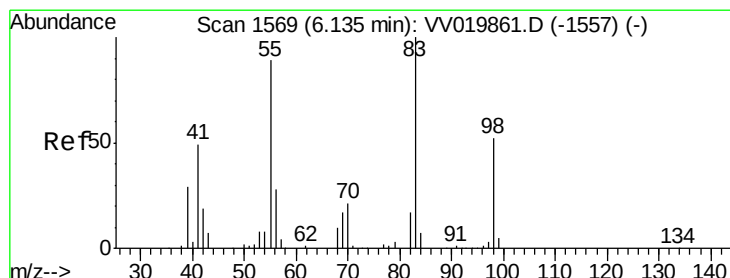
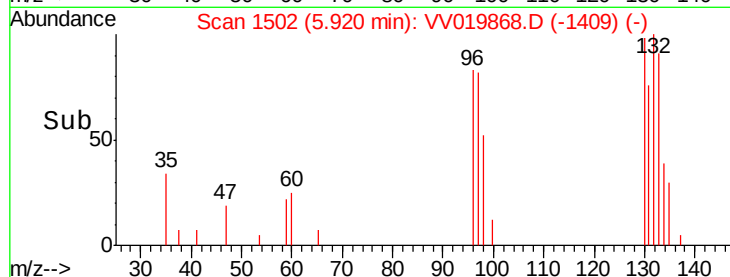
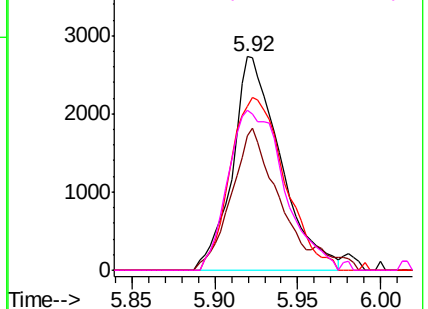


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.224 ug/L

RT: 6.13 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

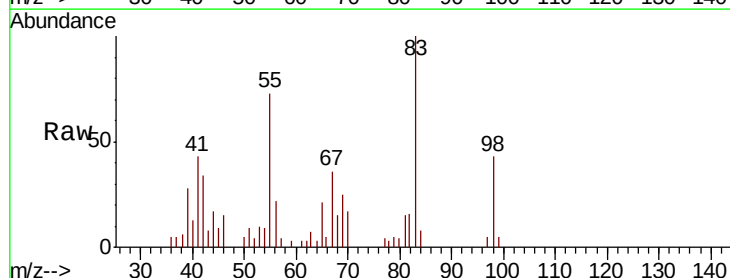
Tgt Ion: 83 Resp: 7814

Ion Ratio Lower Upper

83 100

55 78.2 67.5 101.3

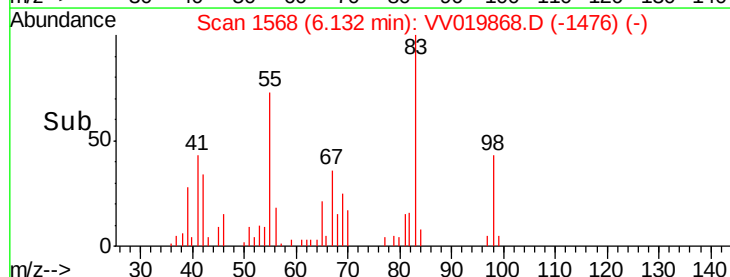
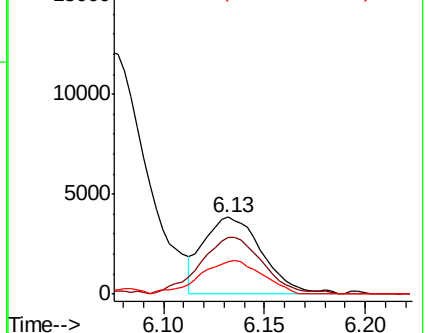
98 45.9 38.6 58.0

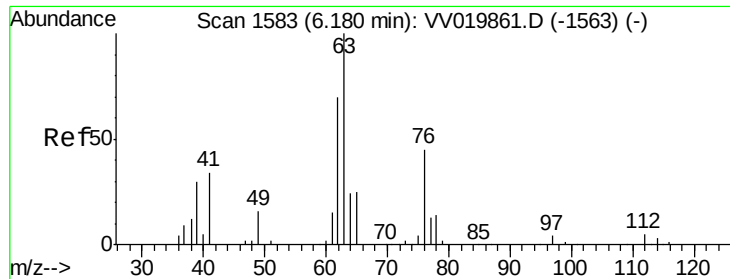


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

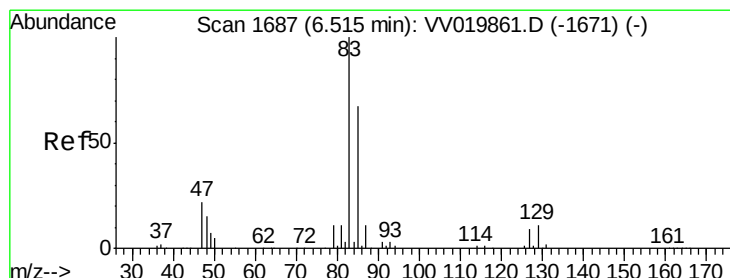
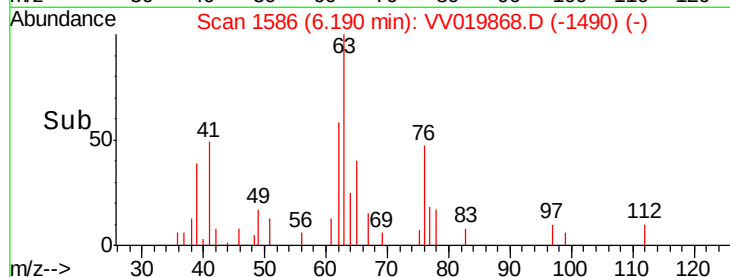
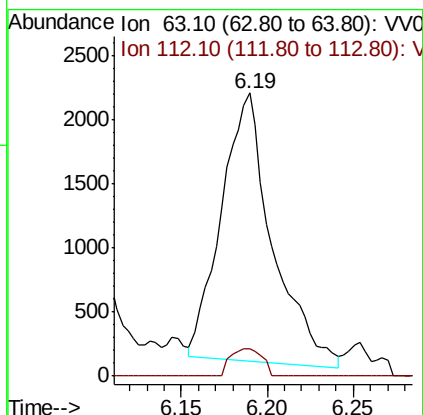
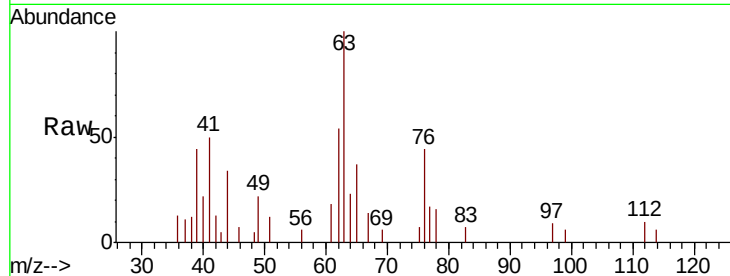




#37
 1,2-Dichloropropane
 Concen: 0.196 ug/L
 RT: 6.19 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

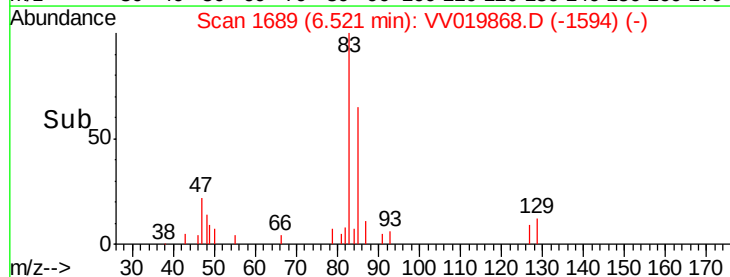
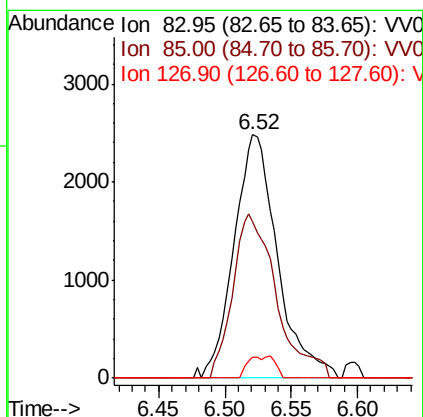
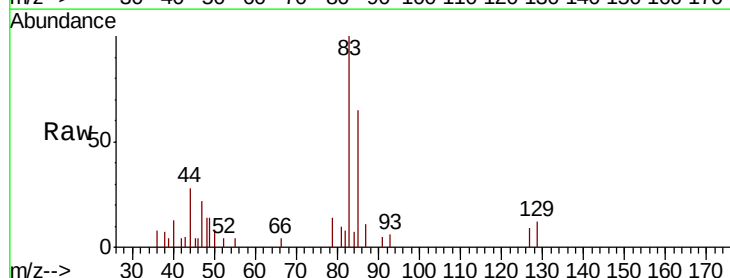
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

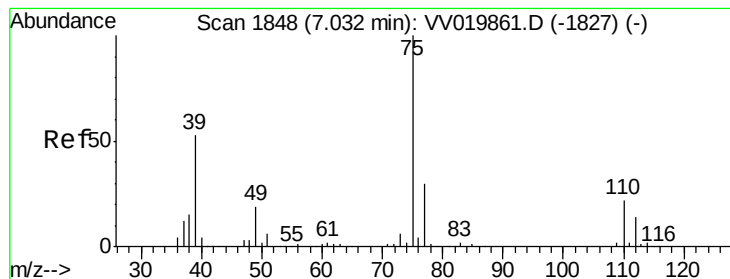
Tot Ion: 63 Resp: 4296
 Ion Ratio Lower Upper
 63 100
 112 6.3 3.6 5.4#



#38
 Bromodichloromethane
 Concen: 0.210 ug/L
 RT: 6.52 min Scan# 1689
 Delta R.T. 0.01 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Tgt Ion: 83 Resp: 5673
 Ion Ratio Lower Upper
 83 100
 85 64.6 45.9 85.3
 127 8.6 6.2 9.2



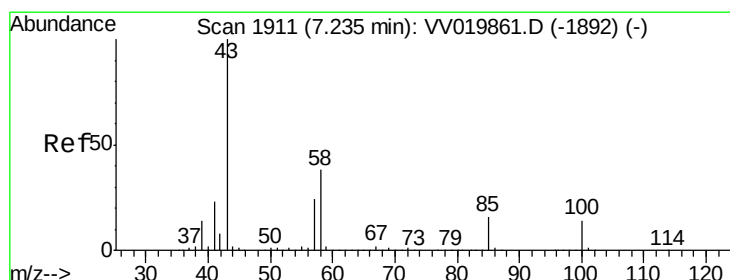
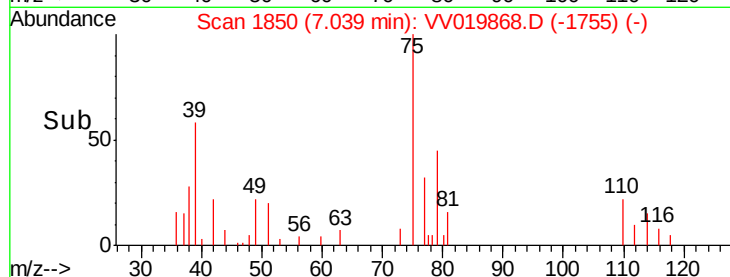
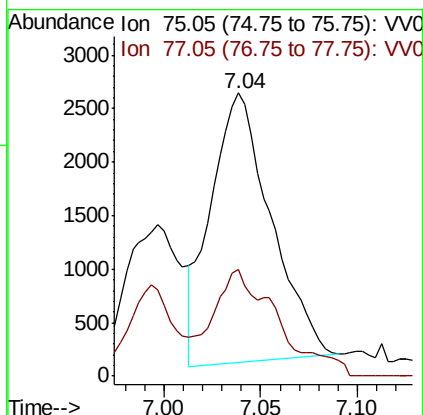
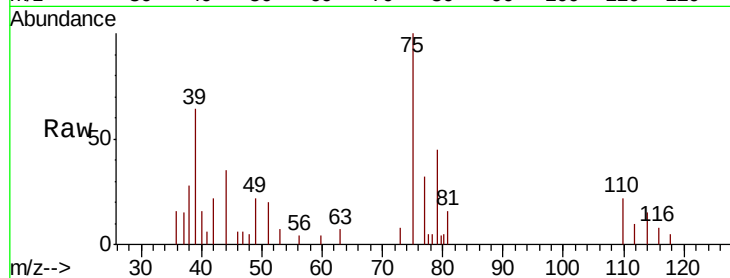


#39

cis-1,3-Dichloropropene
Concen: 0.182 ug/L
RT: 7.04 min Scan# 1850
Delta R.T. 0.01 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

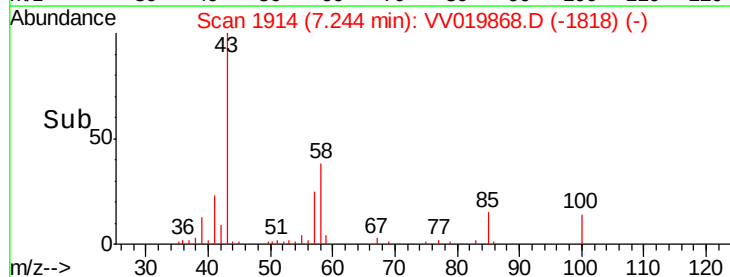
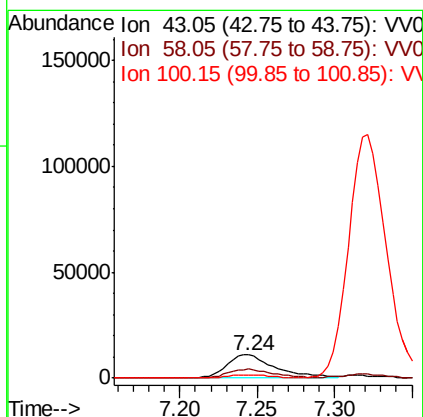
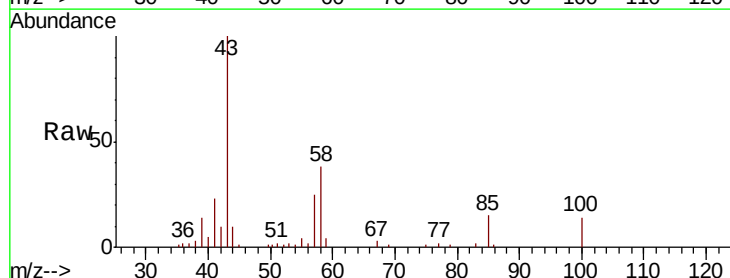
Tot Ion: 75 Resp: 5458
Ion Ratio Lower Upper
75 100
77 37.7 21.0 39.0

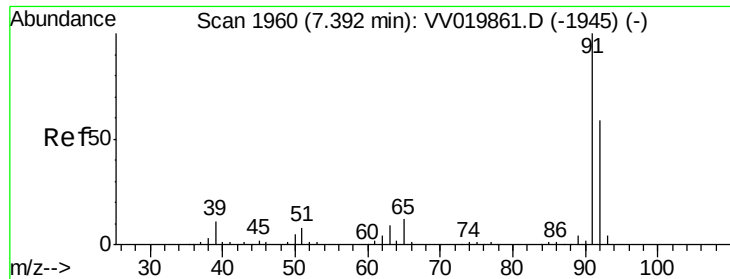


#40

4-Methyl-2-pentanone
Concen: 1.936 ug/L
RT: 7.24 min Scan# 1914
Delta R.T. 0.01 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion: 43 Resp: 23916
Ion Ratio Lower Upper
43 100
58 35.8 30.0 45.0
100 0.0 11.4 17.0#





#42

Toluene

Concen: 0.224 ug/L

RT: 7.40 min Scan# 1962

Delta R.T. 0.01 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

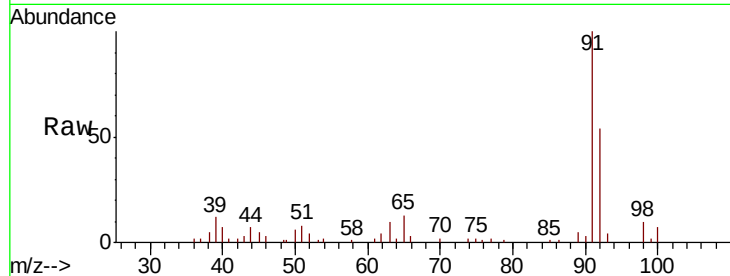
MDL-WATER-03

Tot Ion: 91 Resp: 19809

Ion Ratio Lower Upper

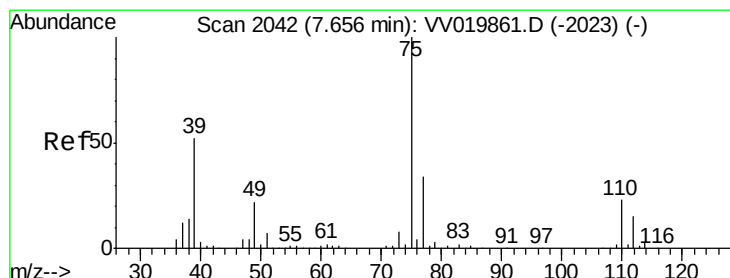
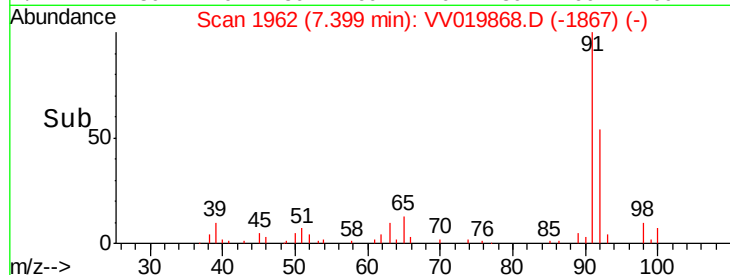
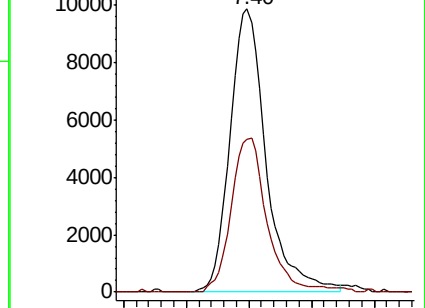
91 100

92 54.1 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.205 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. 0.01 min

Lab File: VV019868.D

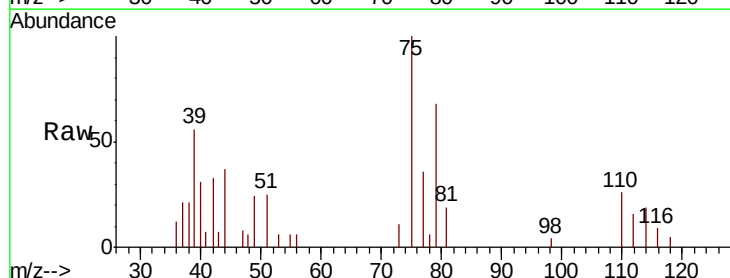
Acq: 29 Dec 2020 17:17

Tgt Ion: 75 Resp: 5048

Ion Ratio Lower Upper

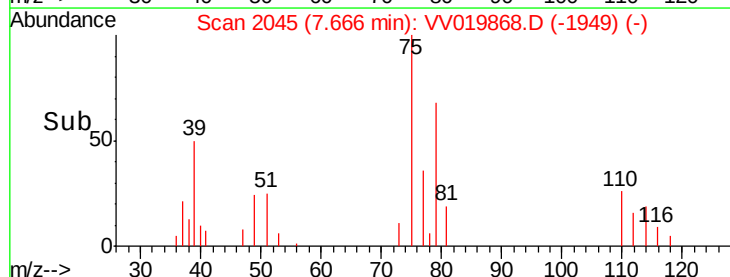
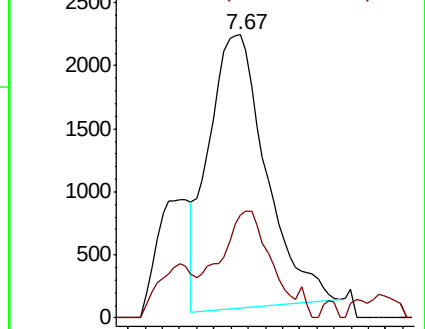
75 100

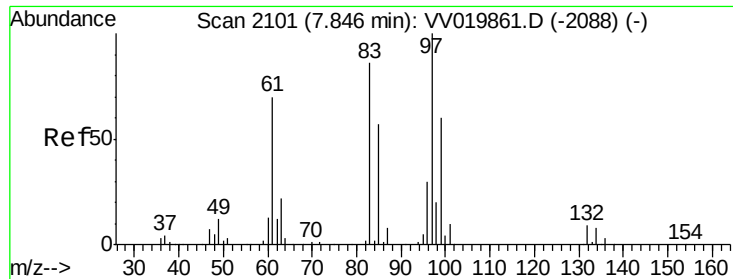
77 36.3 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

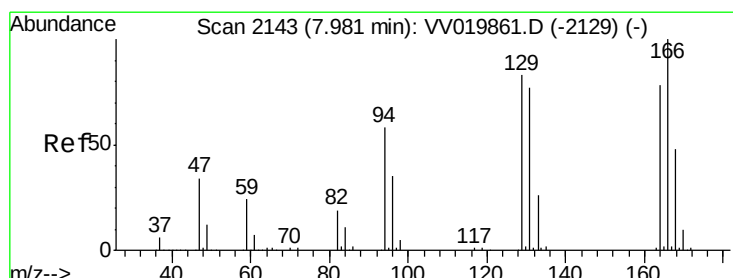
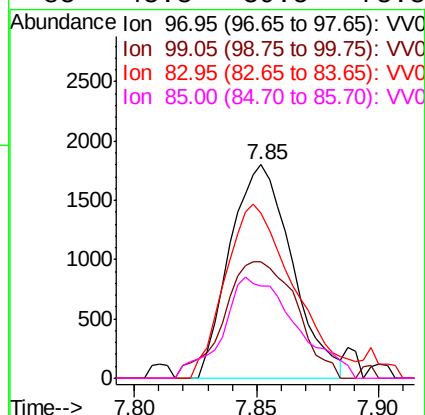
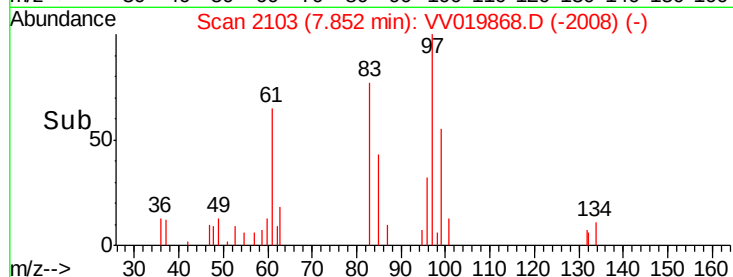
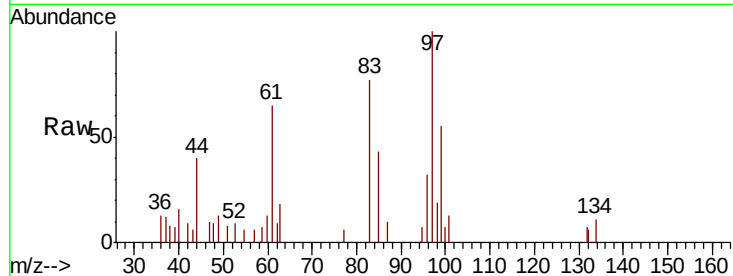




#45
 1,1,2-Trichloroethane
 Concen: 0.225 ug/L
 RT: 7.85 min Scan# 2103
 Delta R.T. 0.01 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

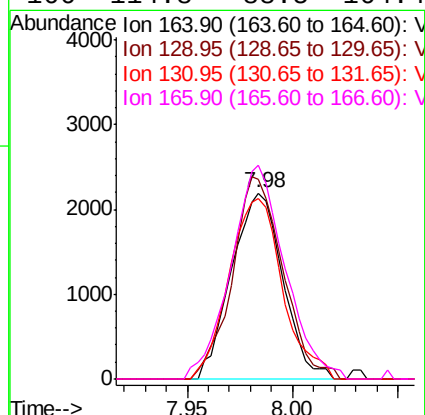
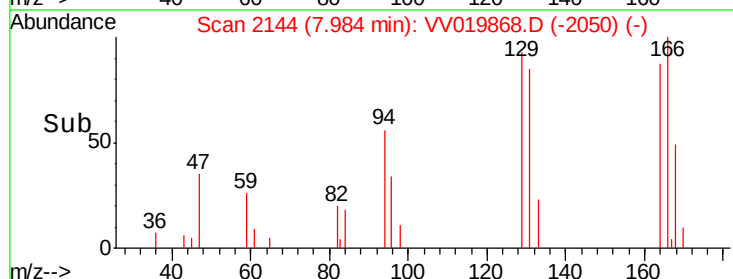
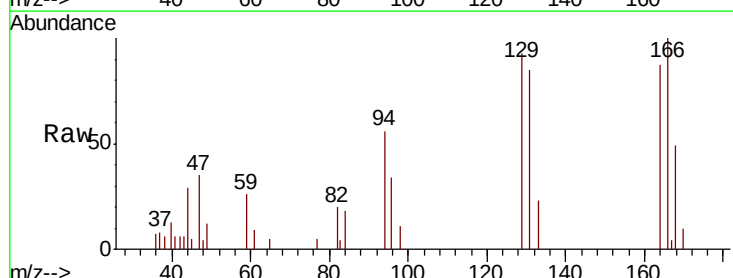
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

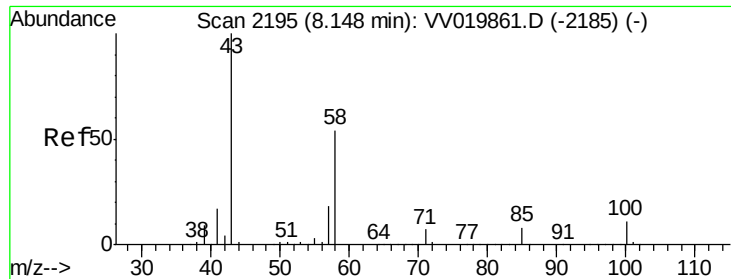
Tot Ion:	97	Resp:	3179
Ion	Ratio	Lower	Upper
97	100		
99	54.7	42.4	78.8
83	77.1	59.4	110.4
85	43.3	39.5	73.3



#47
 Tetrachloroethene
 Concen: 0.233 ug/L
 RT: 7.98 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Tgt Ion:	164	Resp:	3694
Ion	Ratio	Lower	Upper
164	100		
129	107.0	72.1	133.9
131	97.1	68.9	127.9
166	114.8	88.5	164.4

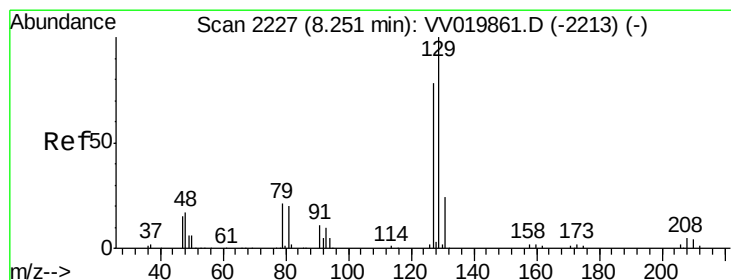
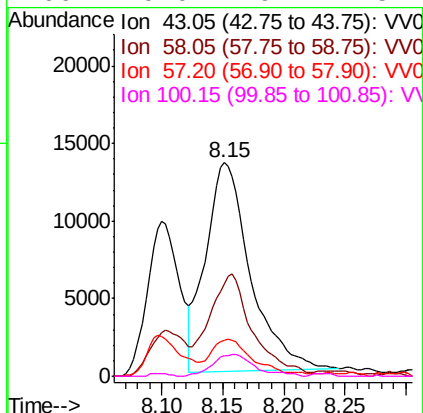
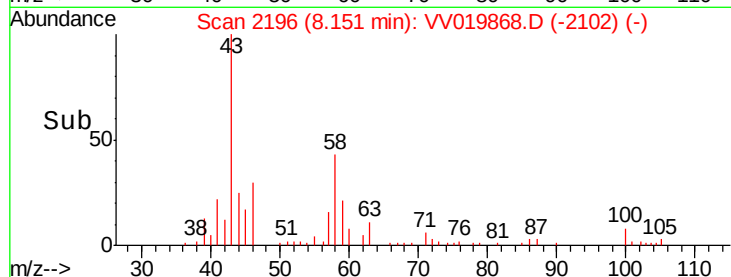
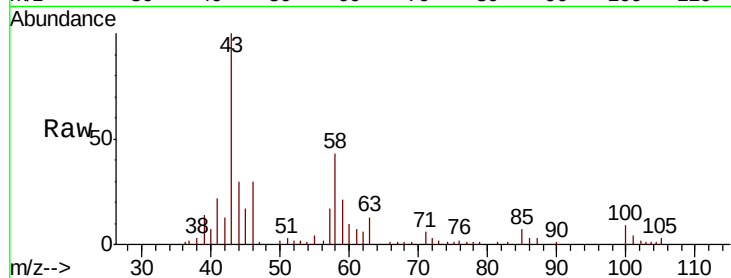




#48
2-Hexanone
Concen: 4.027 ug/L
RT: 8.15 min Scan# 2196
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

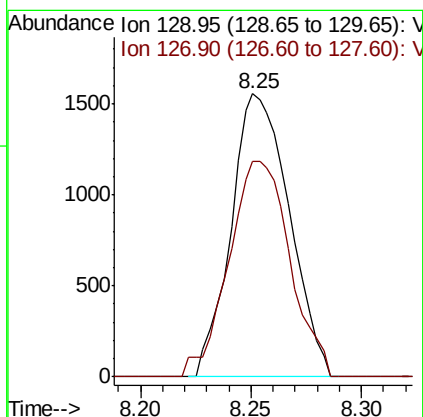
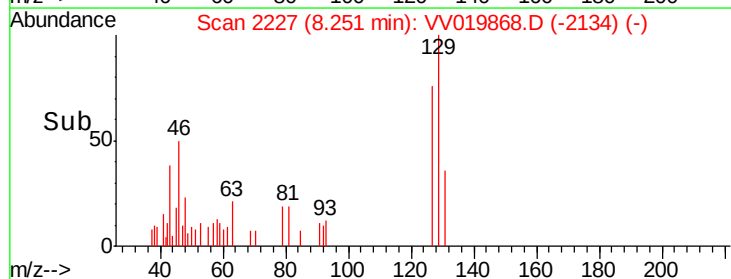
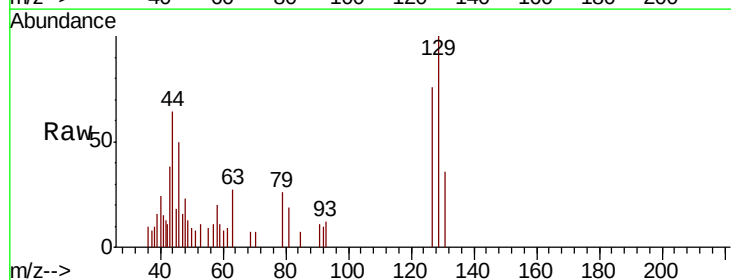
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

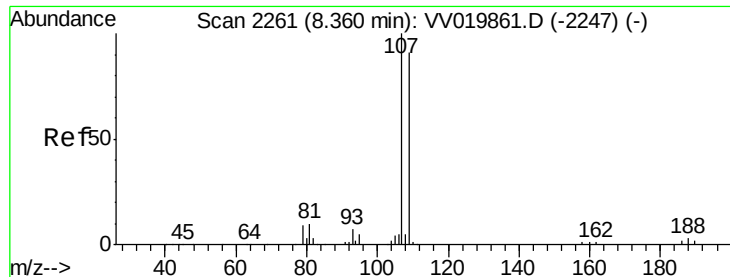
Tot Ion: 43 Resp: 34476
Ion Ratio Lower Upper
43 100
58 46.0 42.4 63.6
57 15.1 14.8 22.2
100 9.0 9.1 13.7#



#49
Dibromochloromethane
Concen: 0.186 ug/L
RT: 8.25 min Scan# 2227
Delta R.T. -0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion: 129 Resp: 2846
Ion Ratio Lower Upper
129 100
127 75.9 55.0 102.2

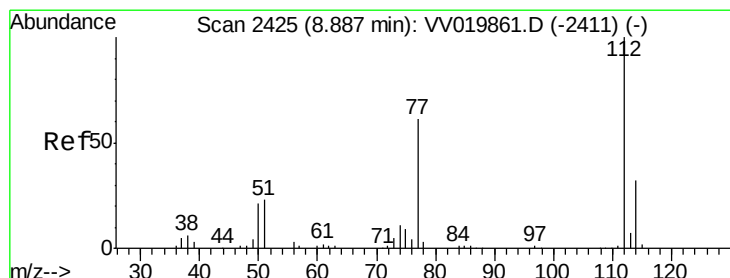
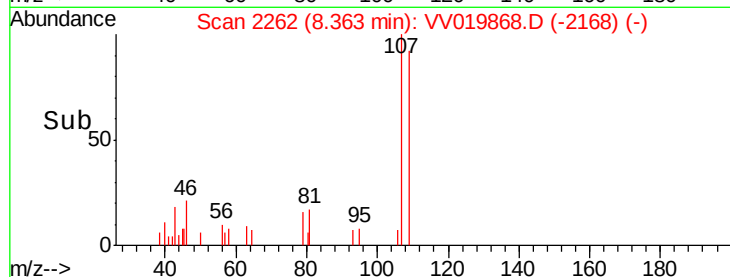
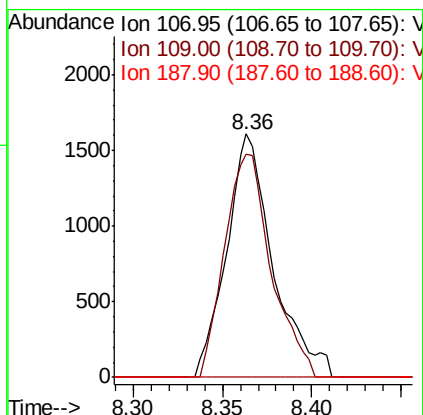
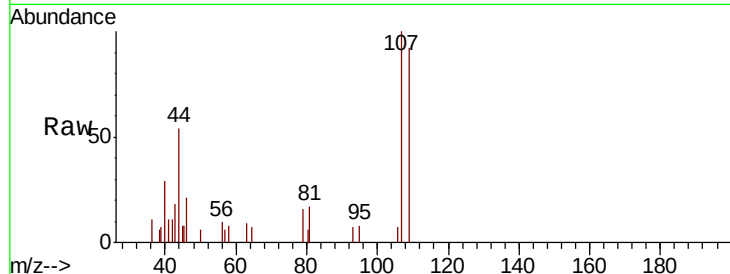




#50
1,2-Dibromoethane
Concen: 0.227 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

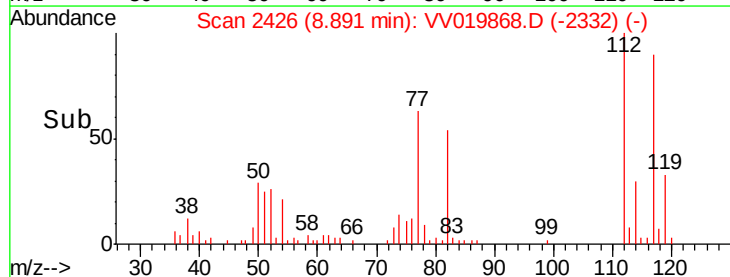
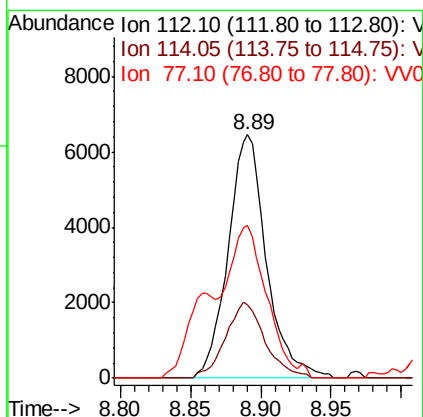
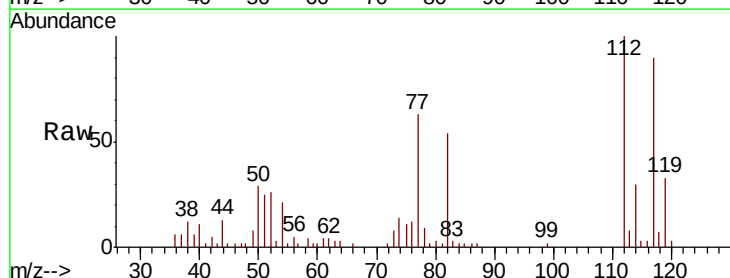
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

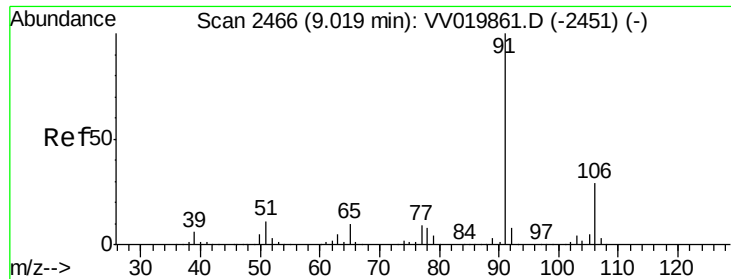
Tot Ion:107 Resp: 2920
Ion Ratio Lower Upper
107 100
109 91.9 63.8 118.4
188 0.0 2.5 3.7#



#51
Chlorobenzene
Concen: 0.219 ug/L
RT: 8.89 min Scan# 2426
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion:112 Resp: 12275
Ion Ratio Lower Upper
112 100
114 30.2 21.8 40.6
77 62.6 51.0 76.4





#52

Ethylbenzene

Concen: 0.199 ug/L

RT: 9.02 min Scan# 2467

Delta R.T. 0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

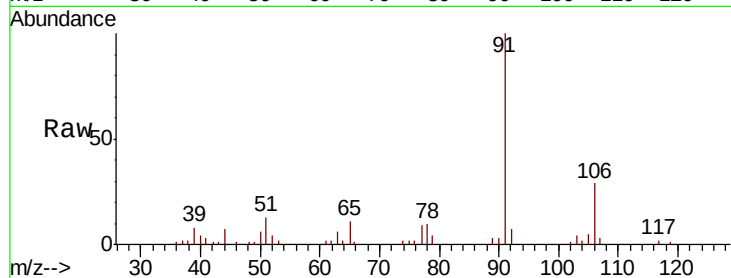
MDL-WATER-03

Tot Ion: 91 Resp: 19567

Ion Ratio Lower Upper

91 100

106 29.4 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VV019868.D (-2373) (-)

Ion 106.15 (105.85 to 106.85): VV019868.D (-2373) (-)

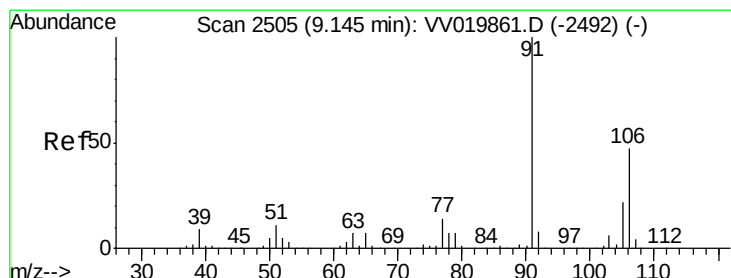
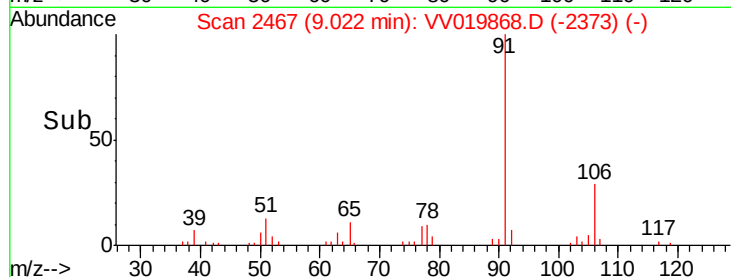
9.02

10000

5000

0

Time-->



#53

m,p-xylene

Concen: 0.199 ug/L

RT: 9.15 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VV019868.D

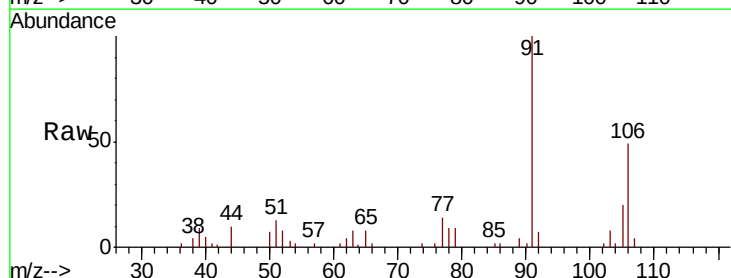
Acq: 29 Dec 2020 17:17

Tgt Ion: 106 Resp: 7148

Ion Ratio Lower Upper

106 100

91 205.0 147.1 273.1



Abundance Ion 106.15 (105.85 to 106.85): VV019868.D (-2412) (-)

Ion 91.15 (90.85 to 91.85): VV019868.D (-2412) (-)

9.15

8000

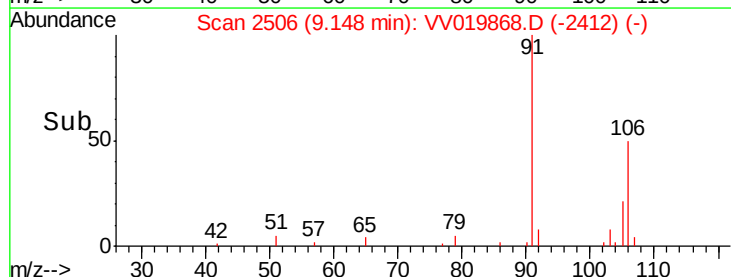
6000

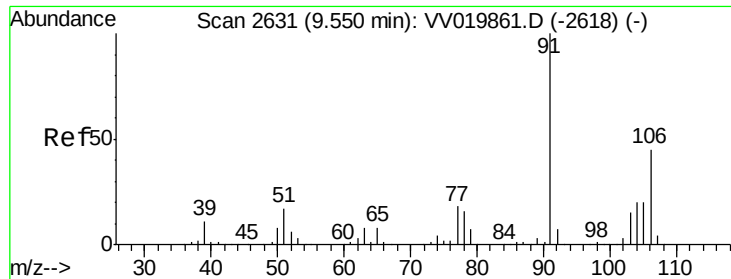
4000

2000

0

Time-->

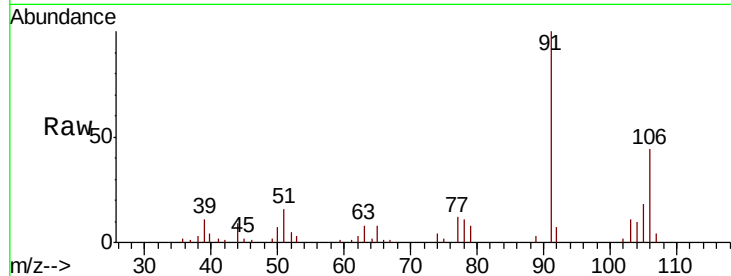




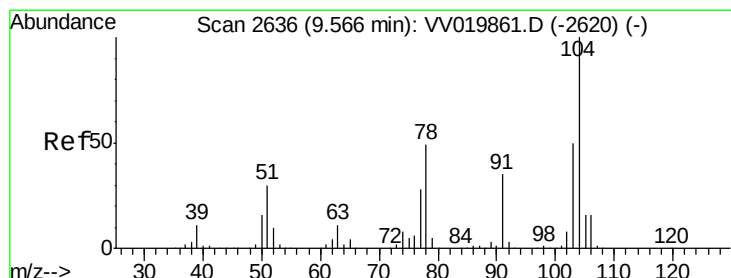
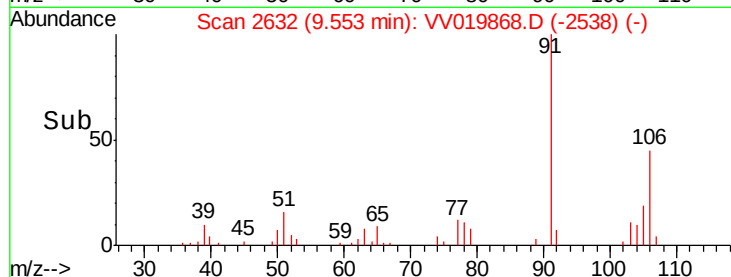
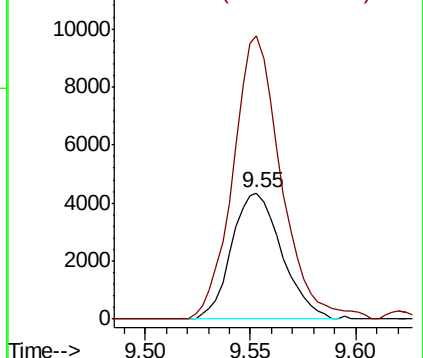
#54
o-xylene
Concen: 0.208 ug/L
RT: 9.55 min Scan# 2632
Delta R.T. 0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion:106 Resp: 7159
Ion Ratio Lower Upper
106 100
91 224.8 155.8 289.3

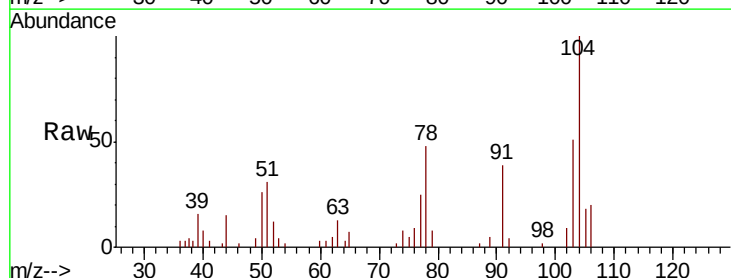


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

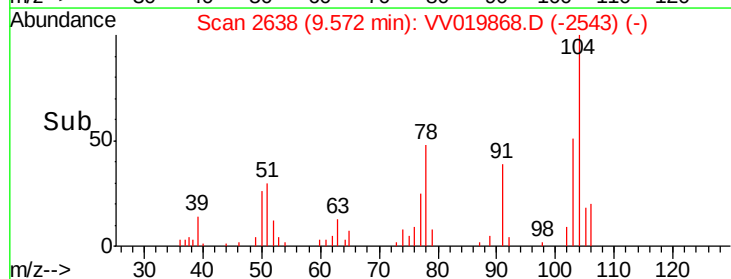
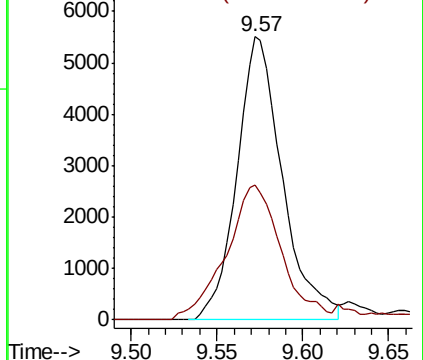


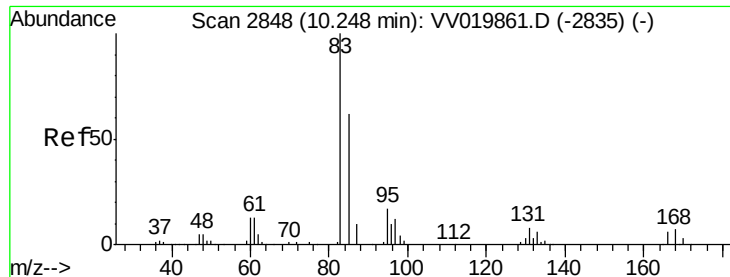
#55
Styrene
Concen: 0.174 ug/L
RT: 9.57 min Scan# 2638
Delta R.T. 0.01 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion:104 Resp: 10101
Ion Ratio Lower Upper
104 100
78 47.6 33.7 62.7



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.223 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

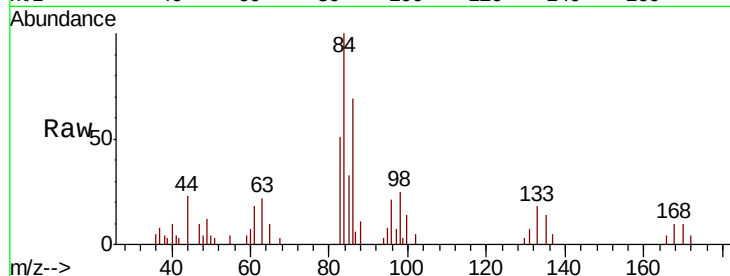
Tot Ion: 83 Resp: 3336

Ion Ratio Lower Upper

83 100

85 65.0 44.3 82.3

131 14.5 7.4 11.2#

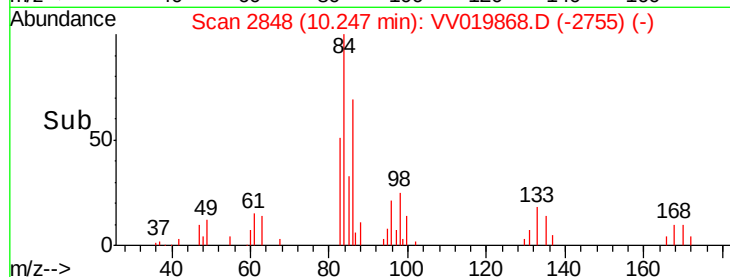


Abundance Ion 82.95 (82.65 to 83.65): VV019861.D (-2835) (-)

Ion 85.00 (84.70 to 85.70): VV019861.D (-2835) (-)

Ion 130.95 (130.65 to 131.65): VV019861.D (-2835) (-)

Time-->

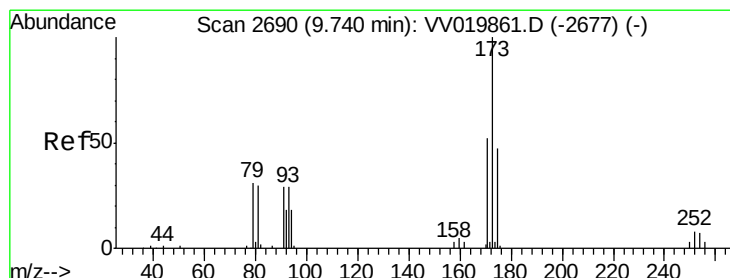


Abundance Ion 82.95 (82.65 to 83.65): VV019868.D (-2755) (-)

Ion 85.00 (84.70 to 85.70): VV019868.D (-2755) (-)

Ion 130.95 (130.65 to 131.65): VV019868.D (-2755) (-)

Time-->



#59

Bromoform

Concen: 0.203 ug/L

RT: 9.75 min Scan# 2693

Delta R.T. 0.01 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

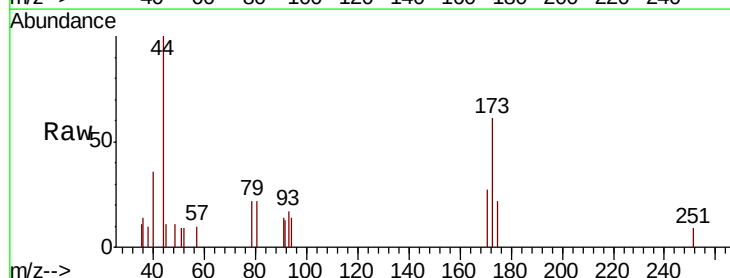
Tgt Ion: 173 Resp: 1326

Ion Ratio Lower Upper

173 100

175 35.4 38.3 57.5#

254 0.0 6.4 9.6#

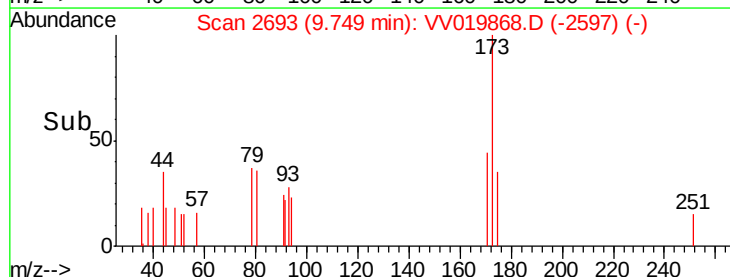


Abundance Ion 172.90 (172.60 to 173.60): VV019861.D (-2677) (-)

Ion 174.90 (174.60 to 175.60): VV019861.D (-2677) (-)

Ion 253.75 (253.45 to 254.45): VV019861.D (-2677) (-)

Time-->

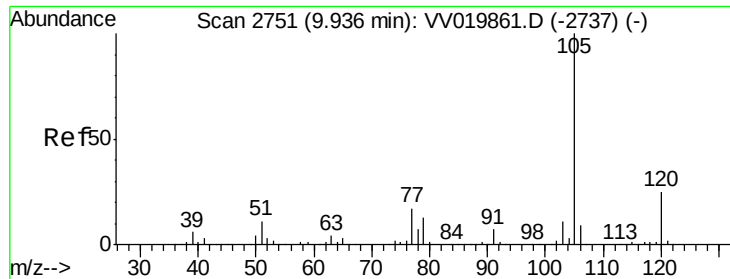


Abundance Ion 172.90 (172.60 to 173.60): VV019868.D (-2597) (-)

Ion 174.90 (174.60 to 175.60): VV019868.D (-2597) (-)

Ion 253.75 (253.45 to 254.45): VV019868.D (-2597) (-)

Time-->



#60

Isopropylbenzene

Concen: 0.207 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-03

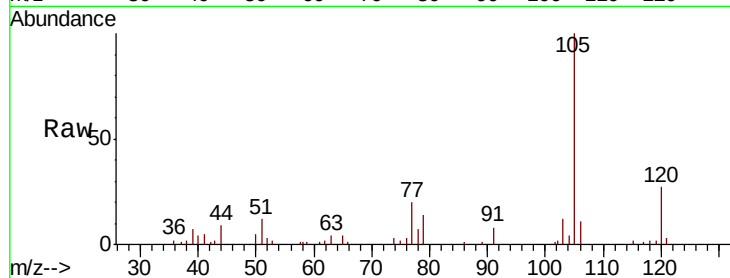
Tot Ion:105 Resp: 18154

Ion Ratio Lower Upper

105 100

120 24.6 20.4 30.6

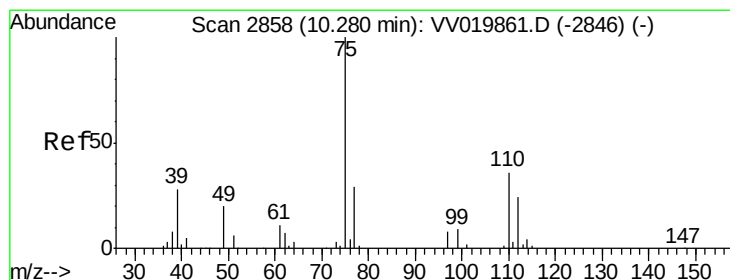
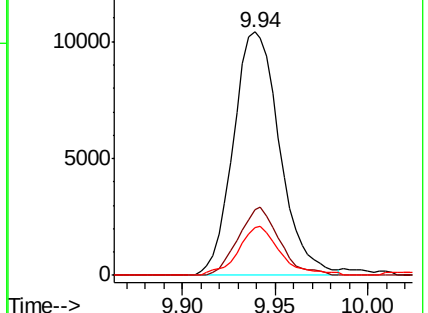
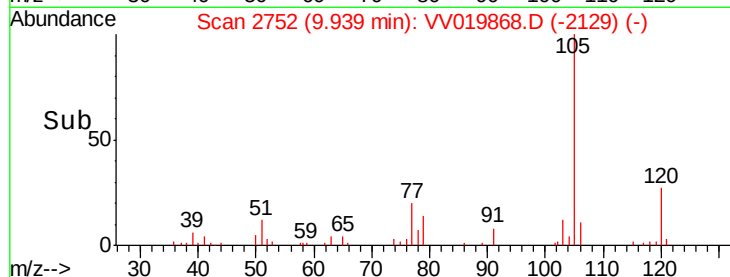
77 18.2 13.7 20.5



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: 0.223 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.01 min

Lab File: VV019868.D

Acq: 29 Dec 2020 17:17

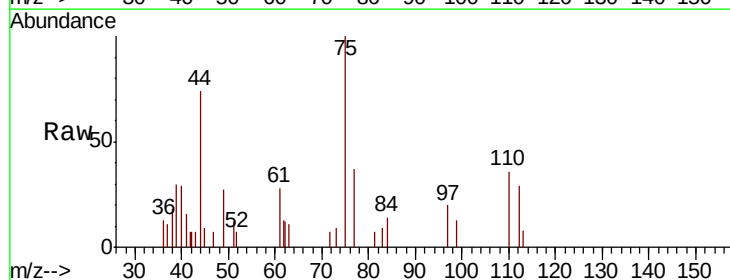
Tgt Ion: 75 Resp: 2593

Ion Ratio Lower Upper

75 100

77 37.8 25.6 38.4

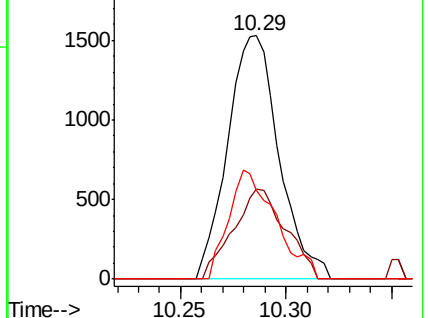
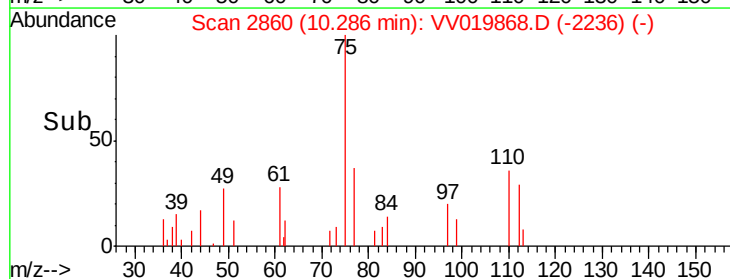
110 40.9 30.5 45.7

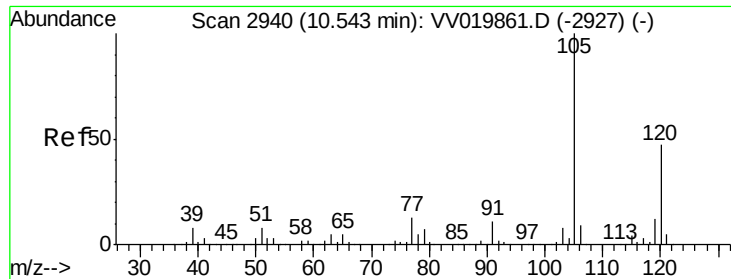


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 110.00 (109.70 to 110.70): V

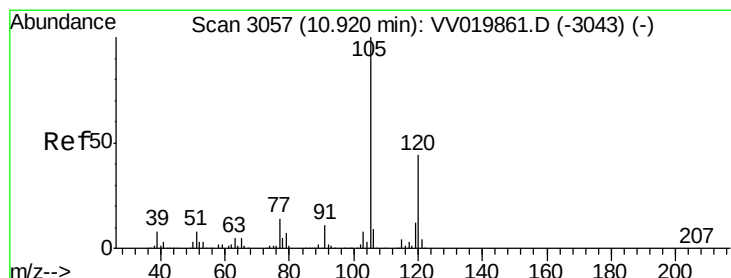
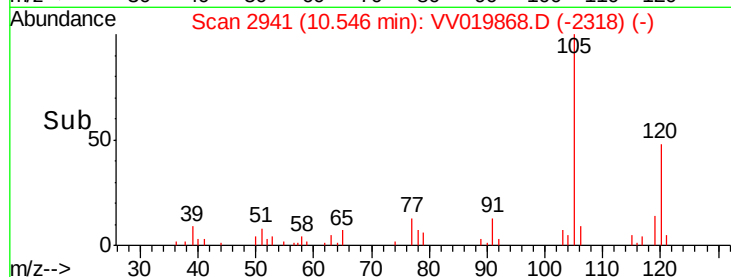
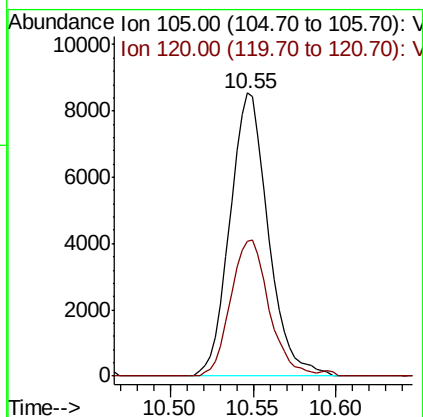
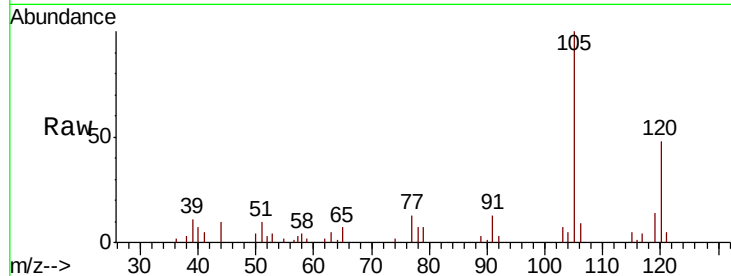




#62
 1,3,5-Trimethylbenzene
 Concen: 0.190 ug/L
 RT: 10.55 min Scan# 2941
 Delta R.T. 0.00 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

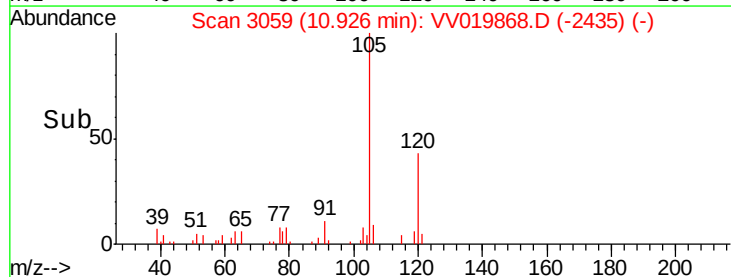
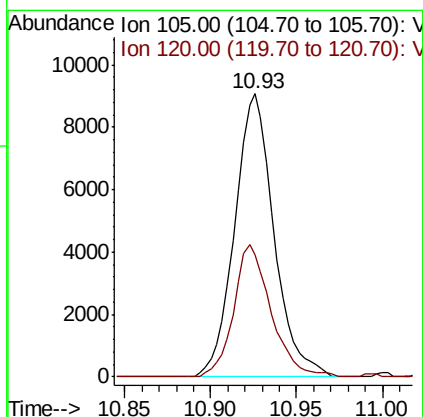
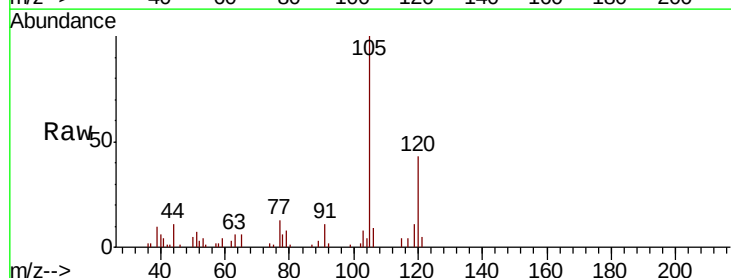
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

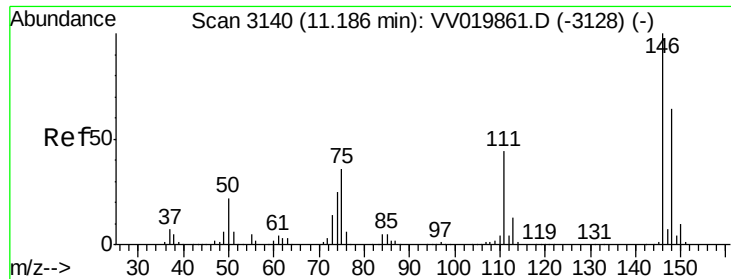
Tot Ion:105 Resp: 13763
 Ion Ratio Lower Upper
 105 100
 120 48.2 37.8 56.6



#63
 1,2,4-Trimethylbenzene
 Concen: 0.194 ug/L
 RT: 10.93 min Scan# 3059
 Delta R.T. 0.01 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Tgt Ion:105 Resp: 14356
 Ion Ratio Lower Upper
 105 100
 120 44.5 34.9 52.3

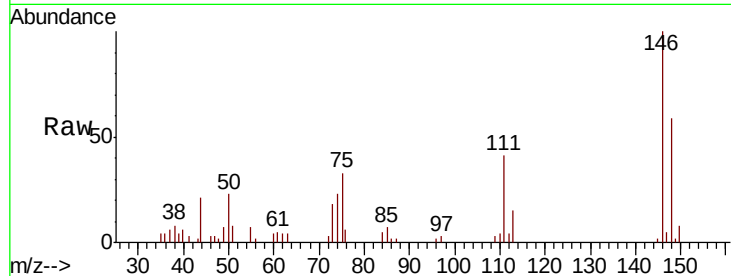




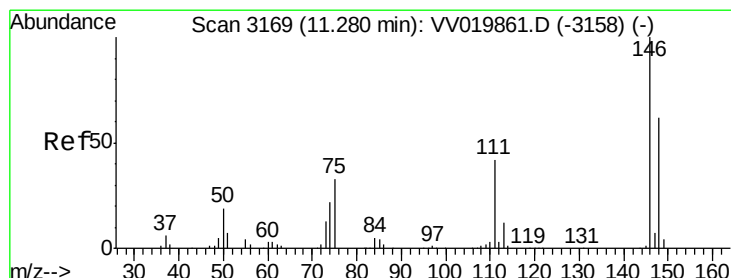
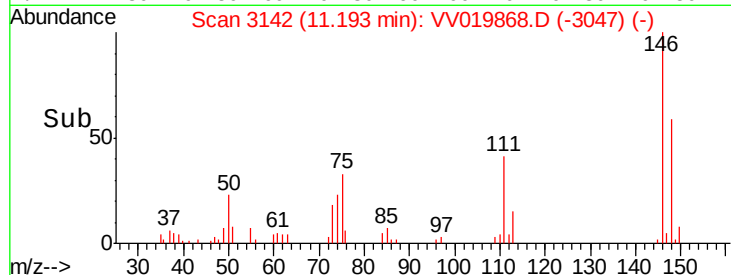
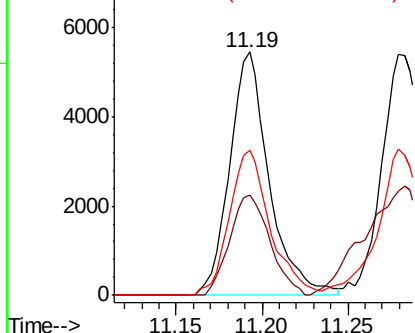
#64
 1,3-Dichlorobenzene
 Concen: 0.227 ug/L
 RT: 11.19 min Scan# 3142
 Delta R.T. 0.01 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Instrument :
 MSVOA_V
 ClientSampled :
 MDL-WATER-03

Tot Ion:146 Resp: 8733
 Ion Ratio Lower Upper
 146 100
 111 41.1 30.4 56.5
 148 59.4 45.8 85.2

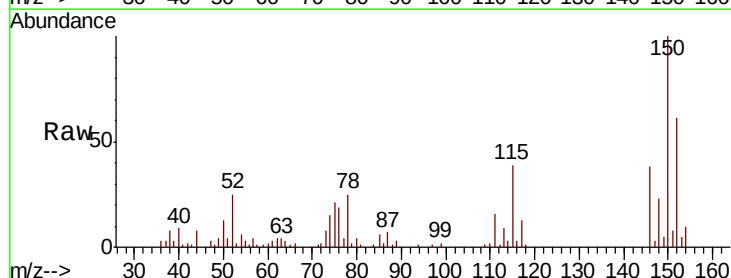


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

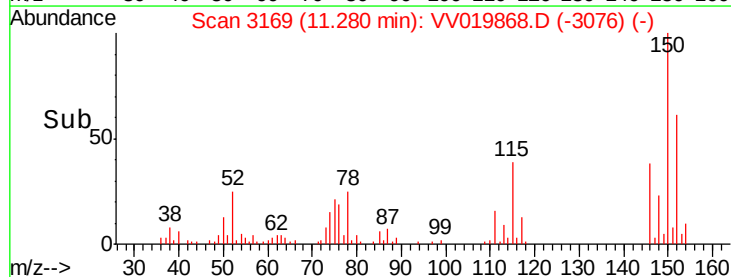
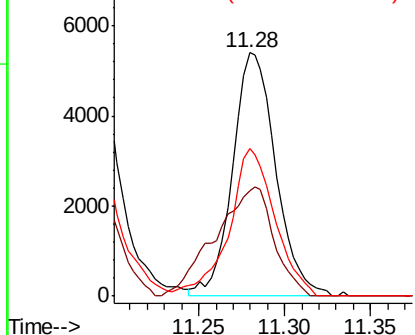


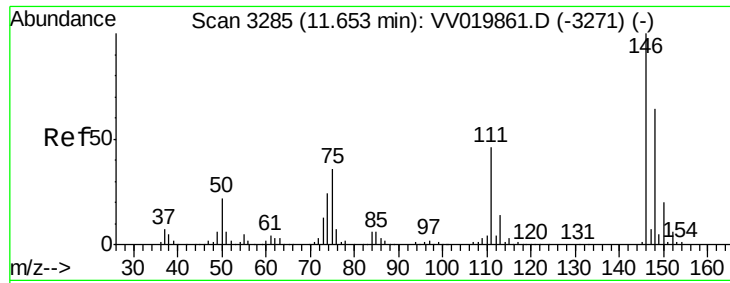
#65
 1,4-Dichlorobenzene
 Concen: 0.244 ug/L
 RT: 11.28 min Scan# 3169
 Delta R.T. -0.00 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Tgt Ion:146 Resp: 9428
 Ion Ratio Lower Upper
 146 100
 111 43.4 29.7 55.1
 148 60.5 45.1 83.7



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

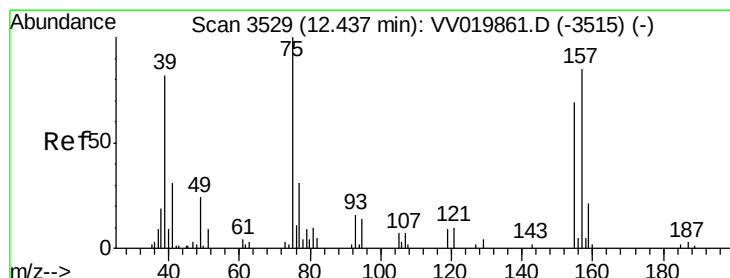
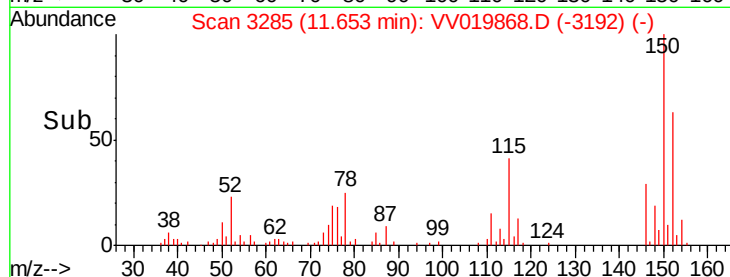
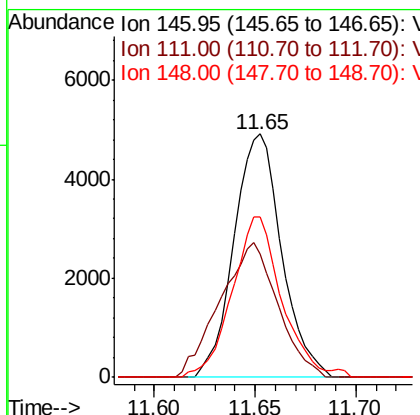
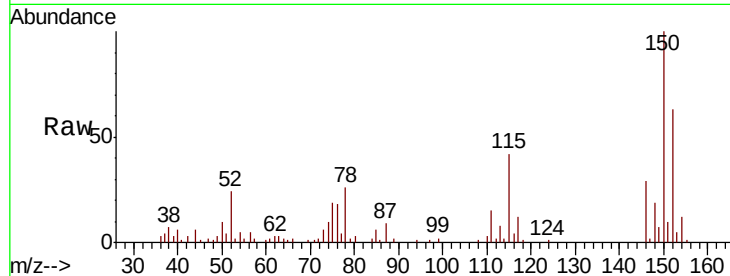




#67
 1,2-Dichlorobenzene
 Concen: 0.230 ug/L
 RT: 11.65 min Scan# 3285
 Delta R.T. -0.00 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

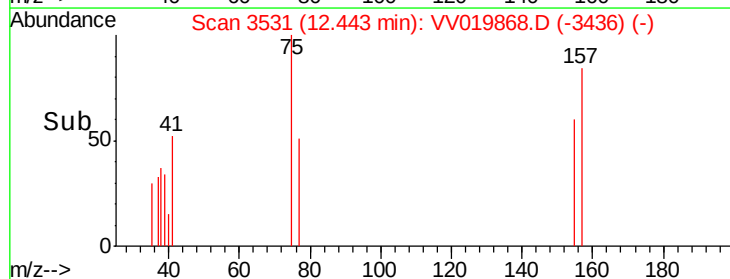
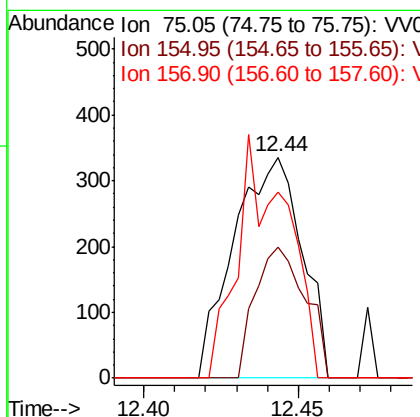
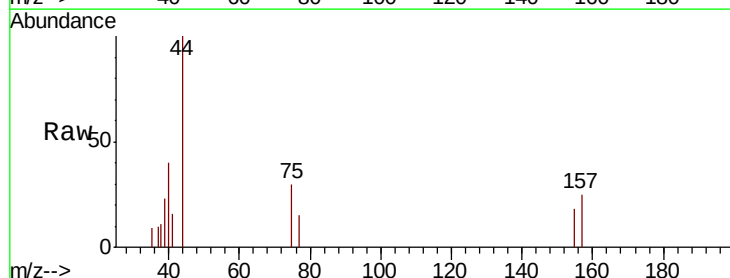
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

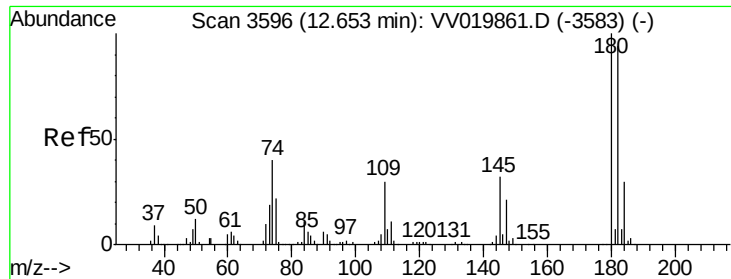
Tot Ion:146 Resp: 8137
 Ion Ratio Lower Upper
 146 100
 111 50.6 37.7 56.5
 148 65.7 50.6 75.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.214 ug/L
 RT: 12.44 min Scan# 3531
 Delta R.T. 0.01 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Tgt Ion: 75 Resp: 514
 Ion Ratio Lower Upper
 75 100
 155 59.5 56.5 84.7
 157 83.9 74.2 111.2

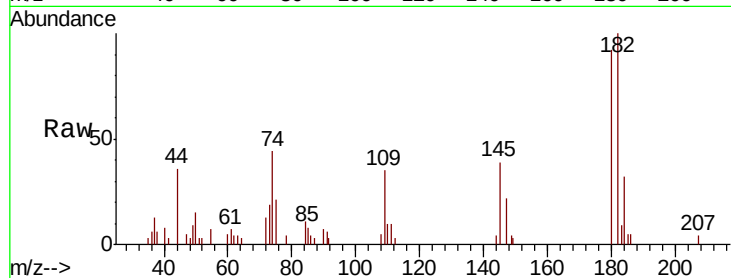




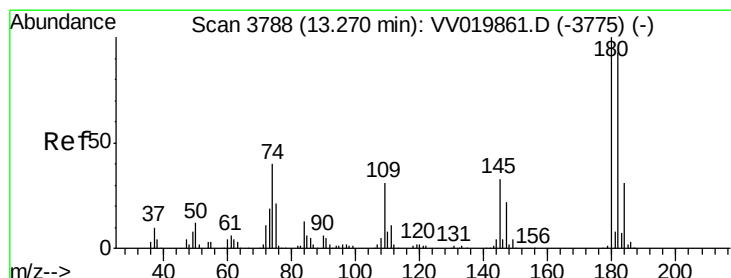
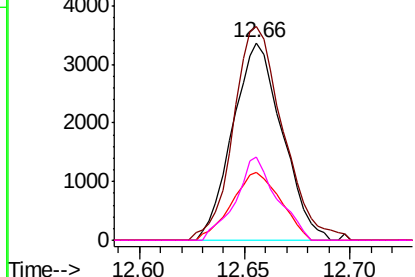
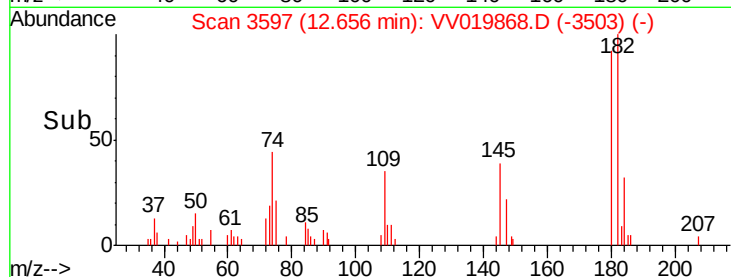
#69
 1,3,5-Trichlorobenzene
 Concen: 0.193 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-03

Tot Ion:180 Resp: 5495
 Ion Ratio Lower Upper
 180 100
 182 107.9 75.9 113.9
 184 34.0 23.5 35.3
 145 35.1 26.2 39.2

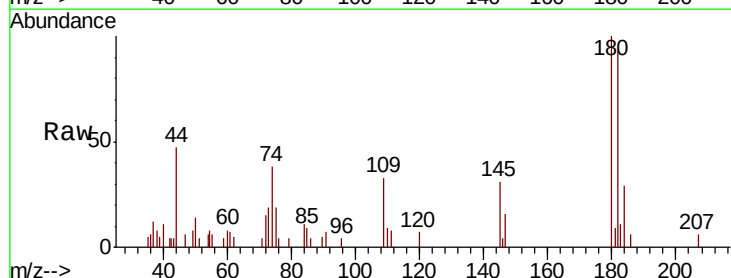


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

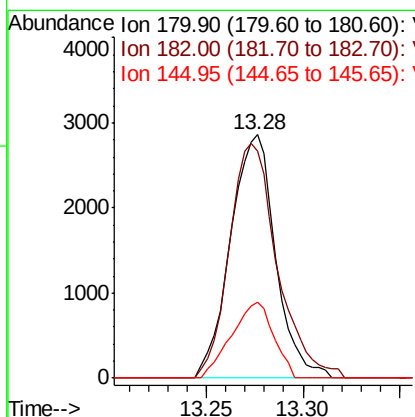
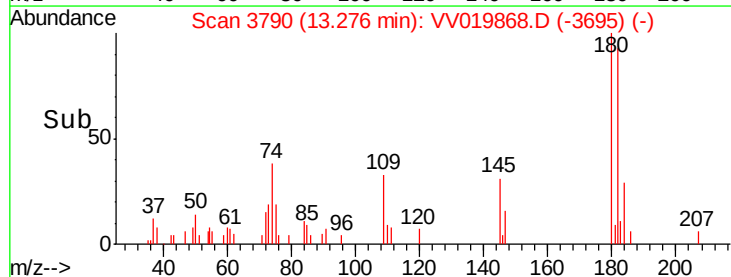


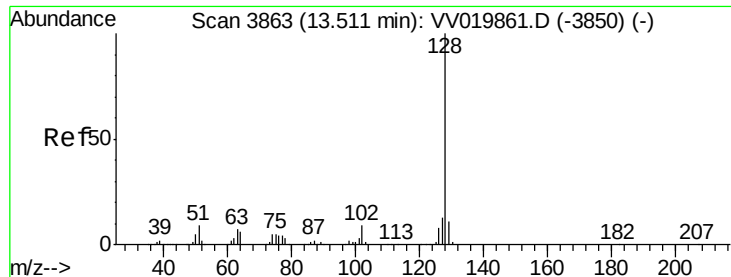
#70
 1,2,4-trichlorobenzene
 Concen: 0.199 ug/L
 RT: 13.28 min Scan# 3790
 Delta R.T. 0.01 min
 Lab File: VV019868.D
 Acq: 29 Dec 2020 17:17

Tgt Ion:180 Resp: 4622
 Ion Ratio Lower Upper
 180 100
 182 102.8 75.9 113.9
 145 29.2 26.6 39.8



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

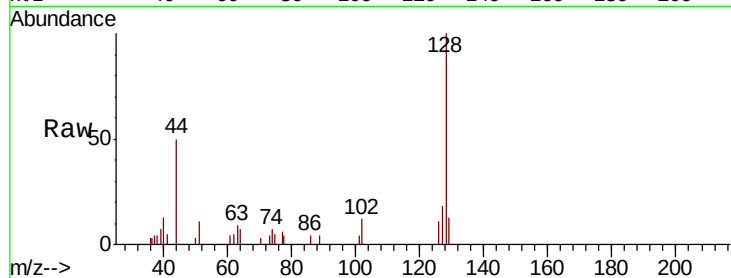




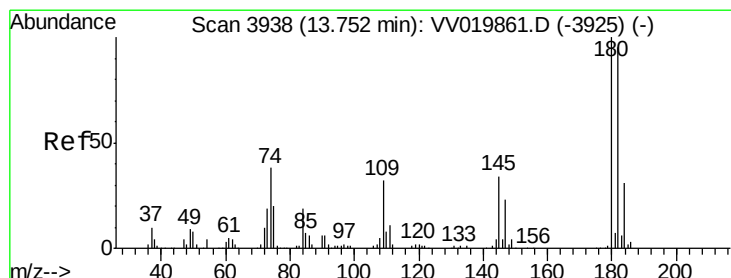
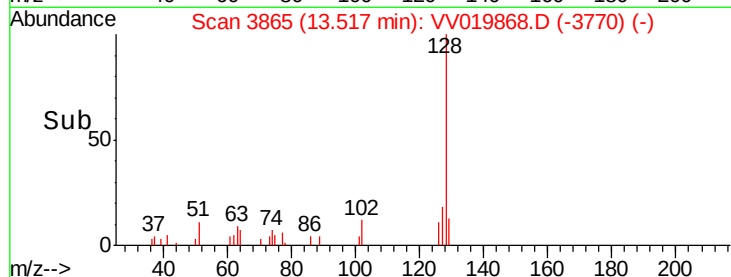
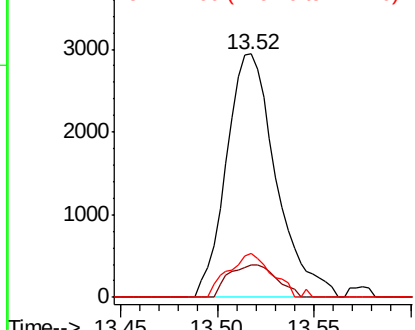
#71
Naphthalene
Concen: 0.150 ug/L
RT: 13.52 min Scan# 3865
Delta R.T. 0.01 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-03

Tot Ion:128 Resp: 5246
Ion Ratio Lower Upper
128 100
129 12.9 8.5 12.7#
127 15.8 10.2 15.4#

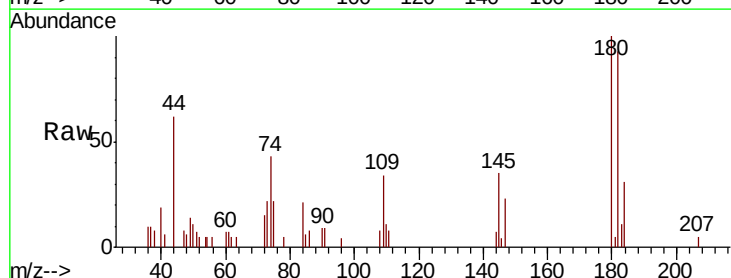


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#72
1,2,3-Trichlorobenzene
Concen: 0.197 ug/L
RT: 13.75 min Scan# 3938
Delta R.T. -0.00 min
Lab File: VV019868.D
Acq: 29 Dec 2020 17:17

Tgt Ion:180 Resp: 3890
Ion Ratio Lower Upper
180 100
182 94.3 74.6 112.0
145 36.5 28.8 43.2



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

