

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110920\
 Data File : VV019307.D
 Acq On : 09 Nov 2020 17:11
 Operator : SY/MD
 Sample : L4485-12
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-WATER-05

Quant Time: Nov 10 07:06:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 10 06:58:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	257451	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	254006	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	125047	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	73595	37.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	74.08%
7) Chloroethane-d5	1.58	69	67640	43.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.90%
11) 1,1-Dichloroethene-d2	2.12	63	123499	33.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	67.14%
21) 2-Butanone-d5	3.92	46	125624	114.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.67%
24) Chloroform-d	4.38	84	166034	44.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.30%
26) 1,2-Dichloroethane-d4	5.06	65	117807	45.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.94%
32) Benzene-d6	5.07	84	303472	43.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.54%
36) 1,2-Dichloropropane-d6	6.09	67	100603	48.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.08%
41) Toluene-d8	7.34	98	267694	40.97	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.94%
43) trans-1,3-Dichloropropene-	7.64	79	49950	42.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.26%
47) 2-Hexanone-d5	8.11	63	75949	93.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.42%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	126503	45.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.68%
66) 1,2-Dichlorobenzene-d4	11.65	152	117995	47.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.34%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	2926	1.855	ug/L	98
3) Chloromethane	1.25	50	3784	2.304	ug/L	94
5) Vinyl chloride	1.32	62	4293	2.511	ug/L #	79
6) Bromomethane	1.53	94	2547	2.217	ug/L	89
8) Chloroethane	1.60	64	2765	2.473	ug/L	96
9) Trichlorofluoromethane	1.77	101	6415	2.267	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4422	3.288	ug/L #	82
12) 1,1-Dichloroethene	2.13	96	4157	2.991	ug/L #	1
13) Acetone	2.20	43	5190	6.229	ug/L	75
14) Carbon disulfide	2.31	76	8615	2.159	ug/L	98
15) Methyl Acetate	2.46	43	3789	2.347	ug/L #	74
16) Methylene chloride	2.52	84	4091	2.476	ug/L	95
17) trans-1,2-Dichloroethene	2.78	96	3122	2.071	ug/L	82
18) Methyl tert-butyl Ether	2.79	73	10244	1.933	ug/L	98
19) 1,1-Dichloroethane	3.22	63	6554	2.219	ug/L	94
20) cis-1,2-Dichloroethene	3.94	96	3552	2.132	ug/L	99
23) Bromochloromethane	4.29	128	1553	1.693	ug/L	87

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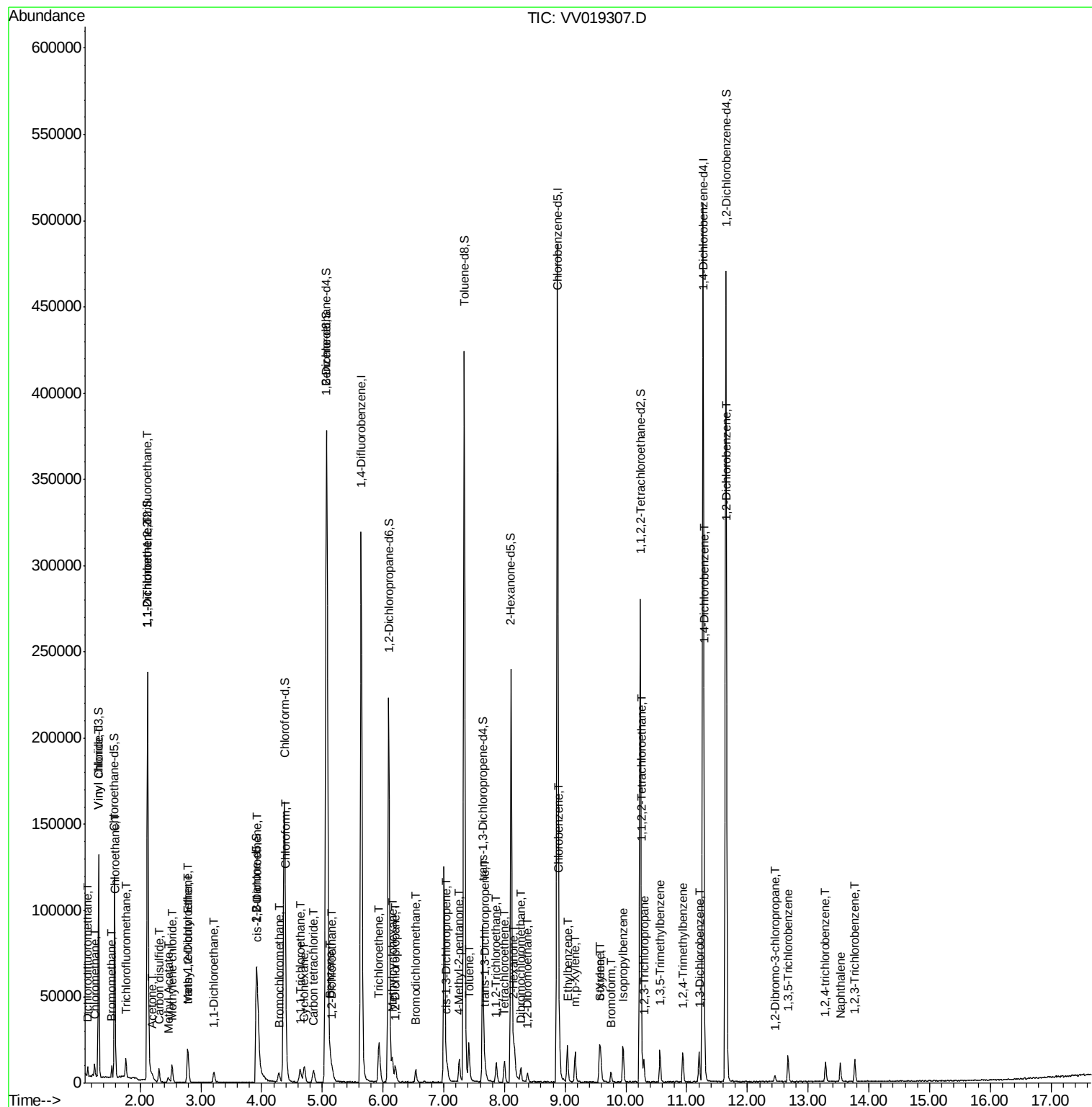
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.40	83	8680	2.741	ug/L	94
27) 1,2-Dichloroethane	5.16	62	5704	2.119	ug/L	98
29) Cyclohexane	4.71	56	4619	2.125	ug/L #	91
30) 1,1,1-Trichloroethane	4.63	97	6137	2.083	ug/L #	92
31) Carbon tetrachloride	4.86	117	4911	1.931	ug/L	93
33) Benzene	5.13	78	14669	2.324	ug/L	100
34) Trichloroethene	5.95	95	3796	2.213	ug/L	96
35) Methylcyclohexane	6.15	83	4382	2.110	ug/L	93
37) 1,2-Dichloropropane	6.20	63	3354	1.991	ug/L #	88
38) Bromodichloromethane	6.54	83	4969	2.049	ug/L #	98
39) cis-1,3-Dichloropropene	7.05	75	4928	1.828	ug/L	96
40) 4-Methyl-2-pentanone	7.25	43	8972	3.964	ug/L	98
42) Toluene	7.41	91	15400	2.257	ug/L	94
44) trans-1,3-Dichloropropene	7.68	75	5630	2.038	ug/L #	80
45) 1,1,2-Trichloroethane	7.86	97	3294	1.978	ug/L	93
46) Tetrachloroethene	8.00	164	3023	2.160	ug/L	98
48) 2-Hexanone	8.16	43	13168	7.696	ug/L #	87
49) Dibromochloromethane	8.27	129	3940	1.984	ug/L	100
50) 1,2-Dibromoethane	8.38	107	3507	2.032	ug/L #	84
51) Chlorobenzene	8.90	112	9910	2.171	ug/L	95
52) Ethylbenzene	9.04	91	14350	1.906	ug/L	97
53) m,p-Xylene	9.16	106	5081	1.803	ug/L	93
54) o-Xylene	9.57	106	5060	1.821	ug/L	98
55) Styrene	9.59	104	7424	1.501	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.26	83	5785	2.296	ug/L	98
59) Bromoform	9.75	173	2756	1.986	ug/L #	94
60) Isopropylbenzene	9.95	105	12653	1.931	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	4607	2.371	ug/L	92
62) 1,3,5-Trimethylbenzene	10.56	105	9691	1.775	ug/L	99
63) 1,2,4-Trimethylbenzene	10.94	105	9278	1.737	ug/L	97
64) 1,3-Dichlorobenzene	11.21	146	7058	2.059	ug/L	98
65) 1,4-Dichlorobenzene	11.29	146	8077	2.277	ug/L	91
67) 1,2-Dichlorobenzene	11.67	146	8231	2.347	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.45	75	1129	1.992	ug/L #	81
69) 1,3,5-Trichlorobenzene	12.67	180	4836	1.965	ug/L	93
70) 1,2,4-trichlorobenzene	13.29	180	3951	1.707	ug/L	96
71) Naphthalene	13.53	128	9205	1.410	ug/L	97
72) 1,2,3-Trichlorobenzene	13.77	180	4138	1.803	ug/L	99

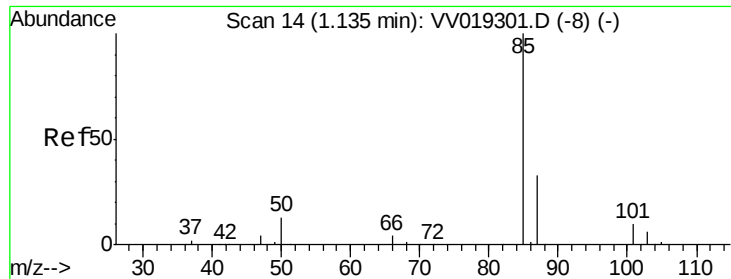
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.855 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

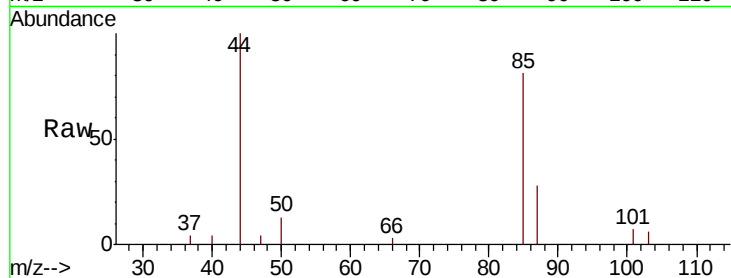
MDL-WATER-05

Tot Ion: 85 Resp: 2926

Ion Ratio Lower Upper

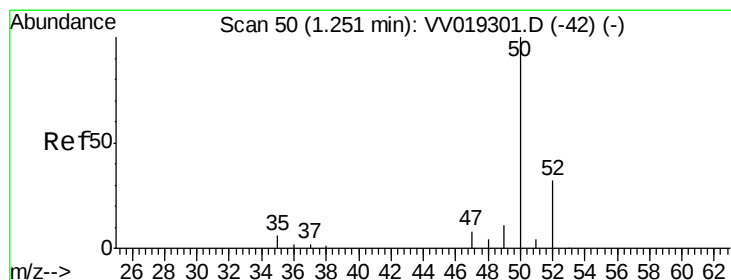
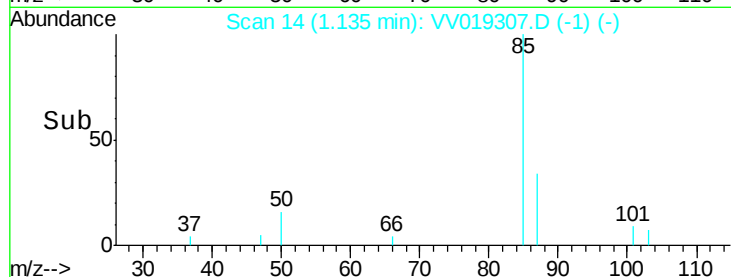
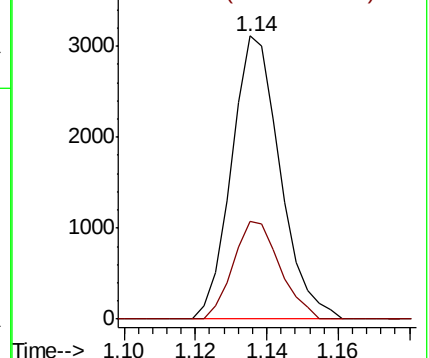
85 100

87 33.3 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: 2.304 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019307.D

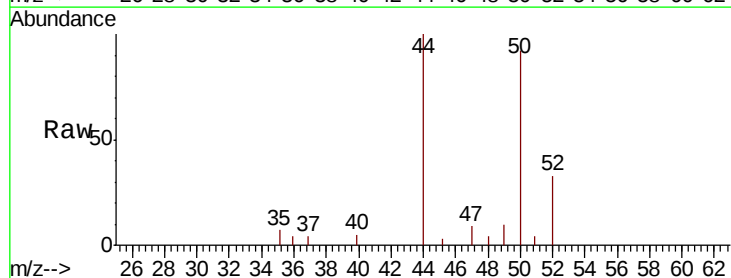
Acq: 09 Nov 2020 17:11

Tgt Ion: 50 Resp: 3784

Ion Ratio Lower Upper

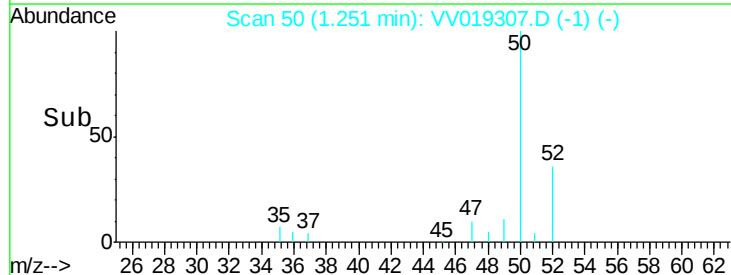
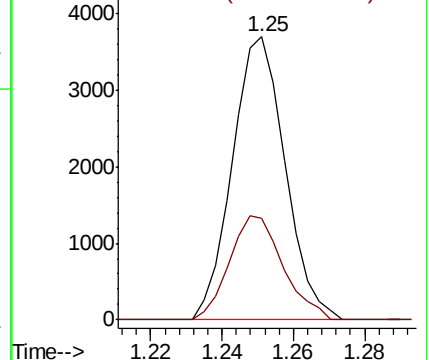
50 100

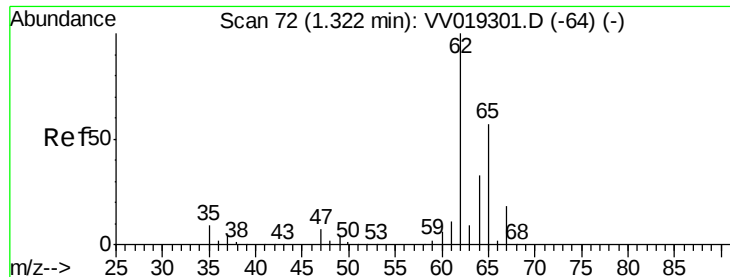
52 35.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.511 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

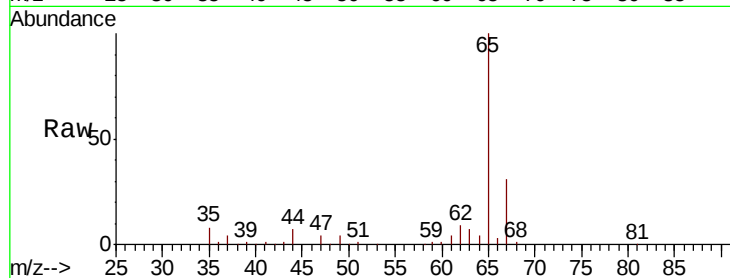
MDL-WATER-05

Tot Ion: 62 Resp: 4293

Ion Ratio Lower Upper

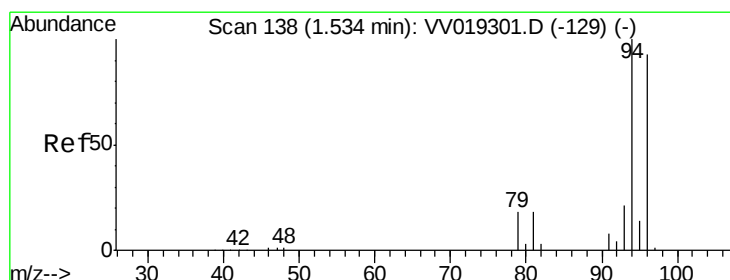
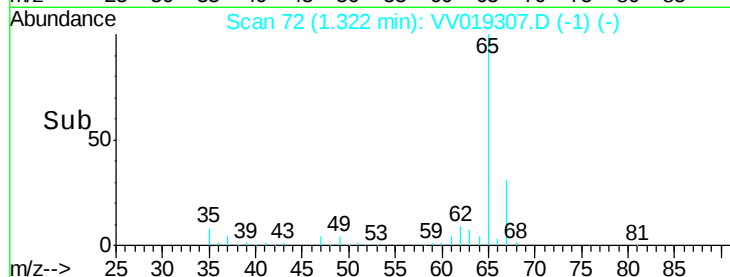
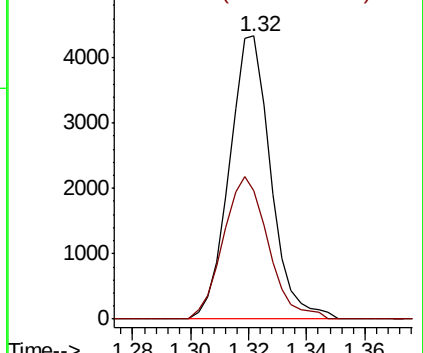
62 100

64 45.3 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: 2.217 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019307.D

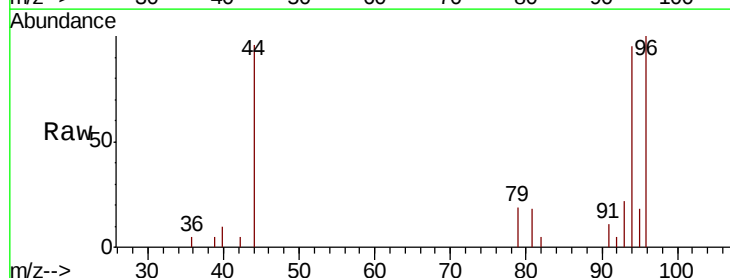
Acq: 09 Nov 2020 17:11

Tgt Ion: 94 Resp: 2547

Ion Ratio Lower Upper

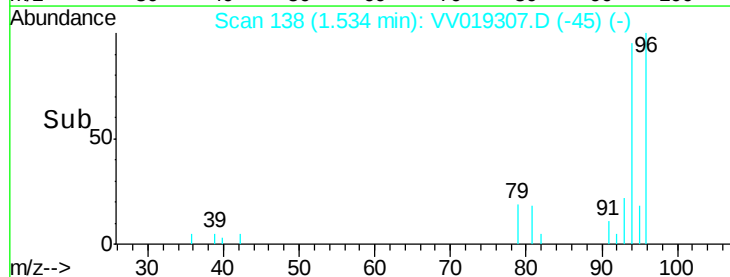
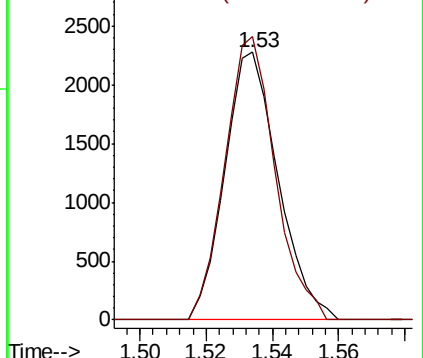
94 100

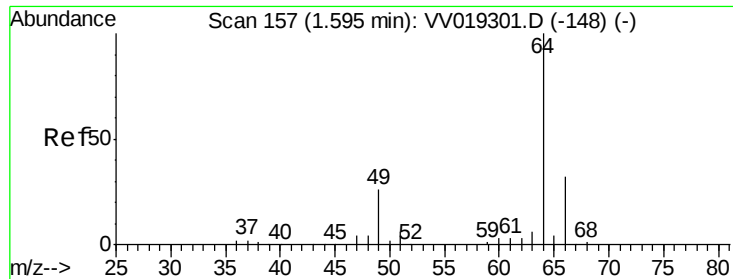
96 105.7 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 2.473 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

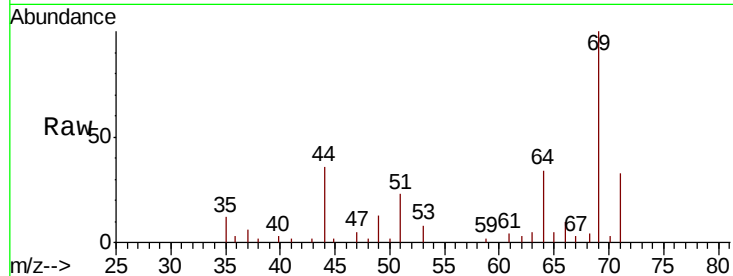
MDL-WATER-05

Tot Ion: 64 Resp: 2765

Ion Ratio Lower Upper

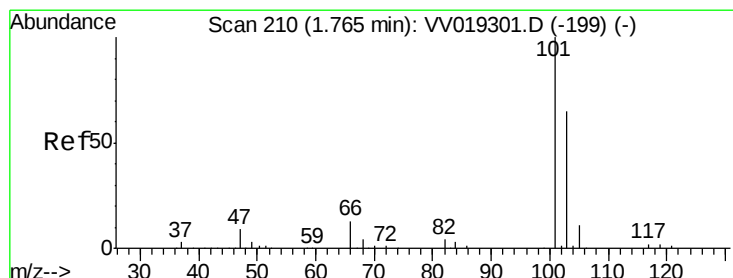
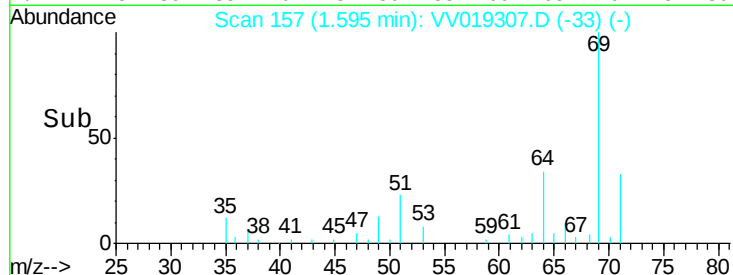
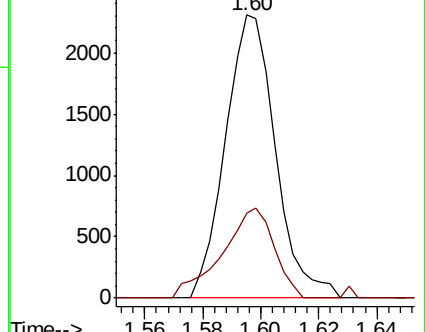
64 100

66 29.9 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019307.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV019307.D (-148) (-)



#9

Trichlorofluoromethane

Concen: 2.267 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019307.D

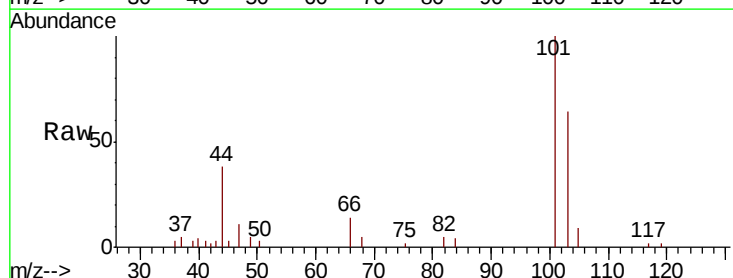
Acq: 09 Nov 2020 17:11

Tgt Ion: 101 Resp: 6415

Ion Ratio Lower Upper

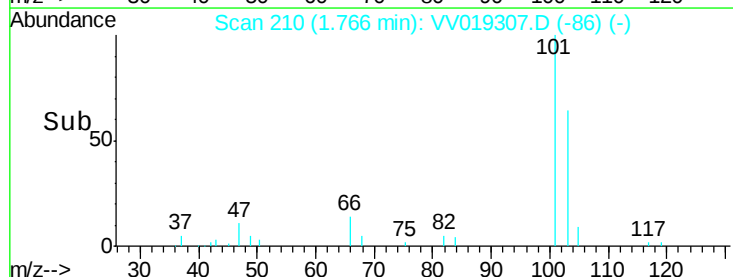
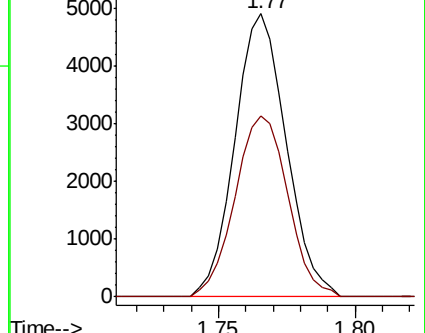
101 100

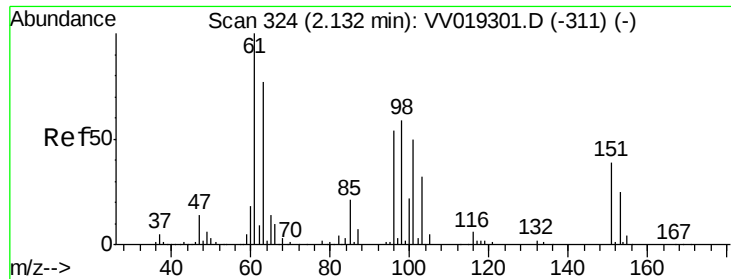
103 65.8 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019307.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV019307.D (-199) (-)





#10

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

Concen: 3.288 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019307.D

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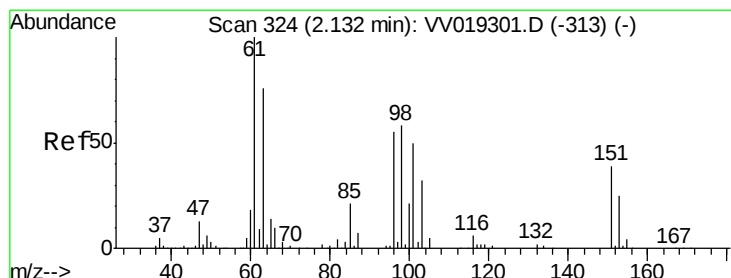
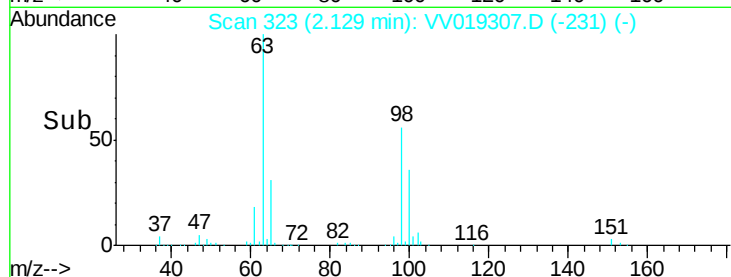
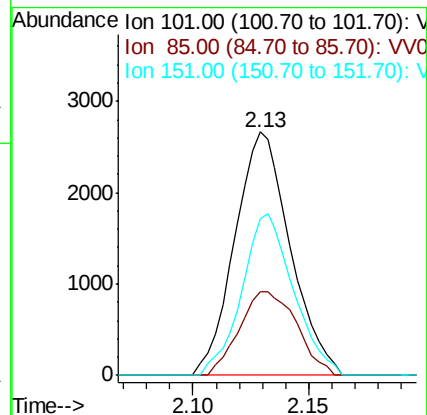
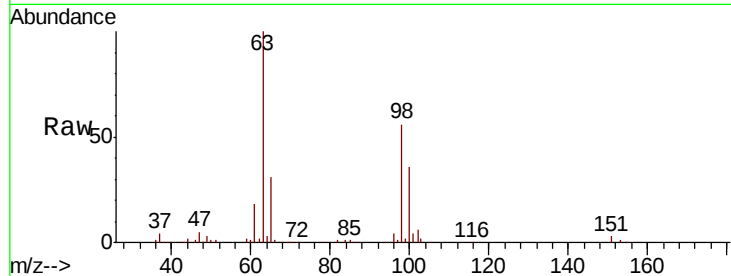
Tot Ion:101 Resp: 4422

Ion Ratio Lower Upper

101 100

85 35.4 35.6 53.4#

151 62.0 64.1 96.1#



#12

1,1-Dichloroethene

Concen: 2.991 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

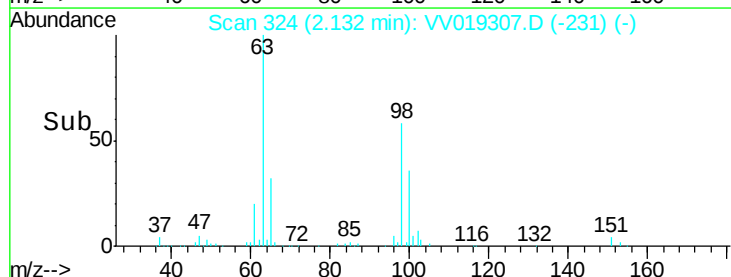
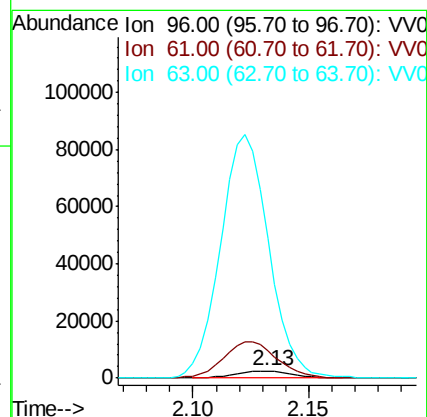
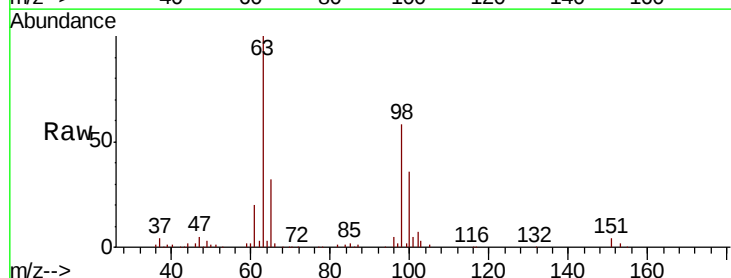
Tgt Ion: 96 Resp: 4157

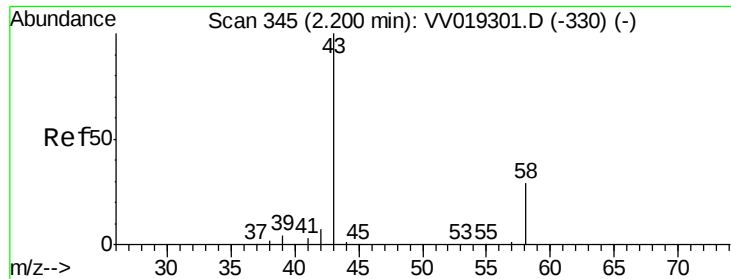
Ion Ratio Lower Upper

96 100

61 397.3 133.6 248.0#

63 2006.6 103.0 191.2#





#13

Acetone

Concen: 6.229 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.00 min

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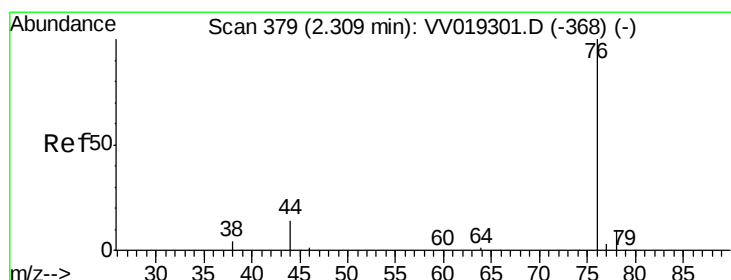
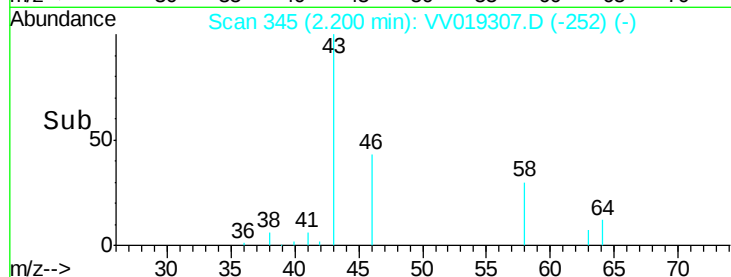
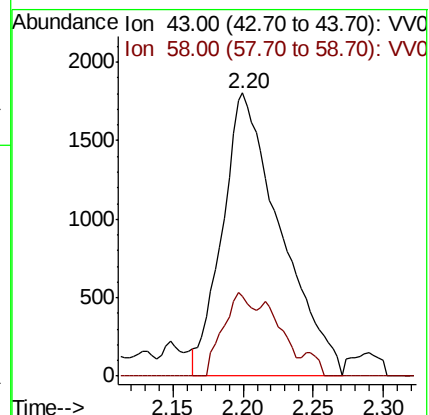
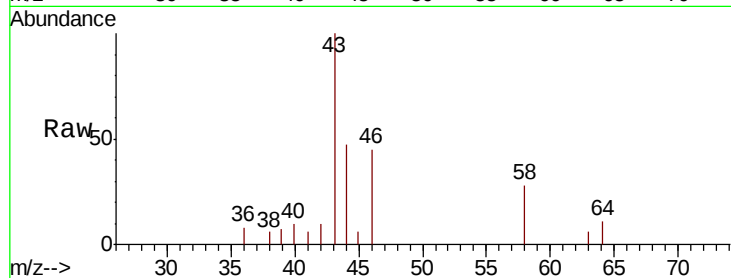
MDL-WATER-05

Tot Ion: 43 Resp: 5190

Ion Ratio Lower Upper

43 100

58 15.5 0.0 57.8



#14

Carbon disulfide

Concen: 2.159 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

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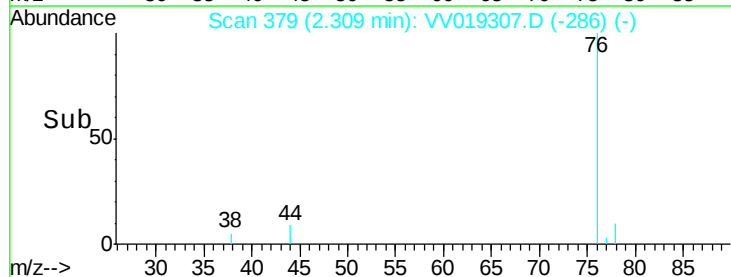
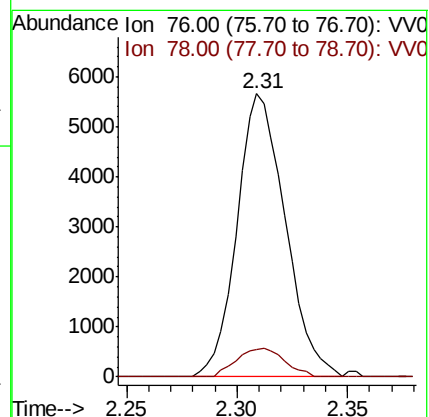
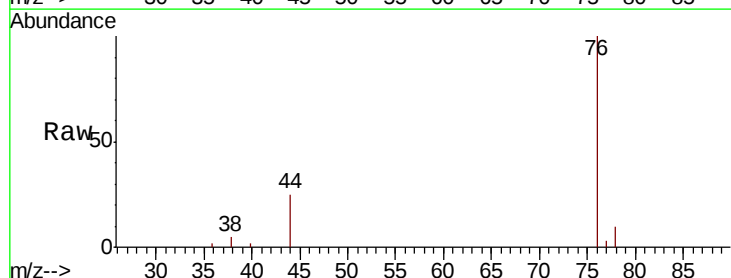
Acq: 09 Nov 2020 17:11

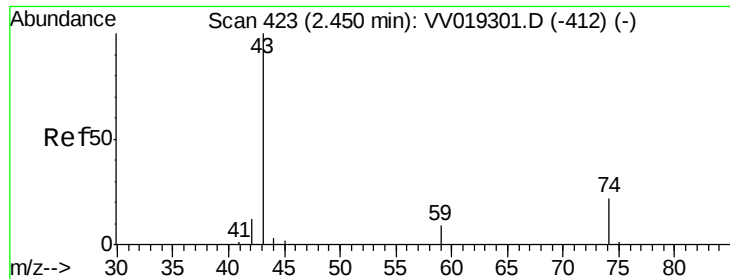
Tgt Ion: 76 Resp: 8615

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.0

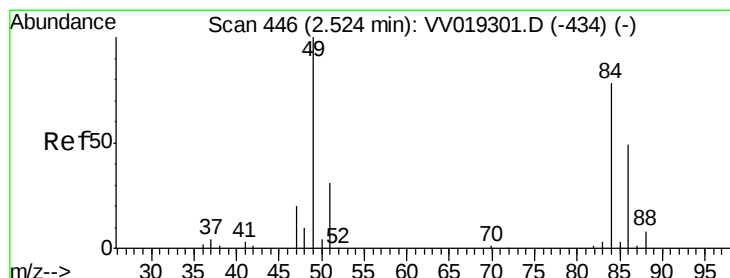
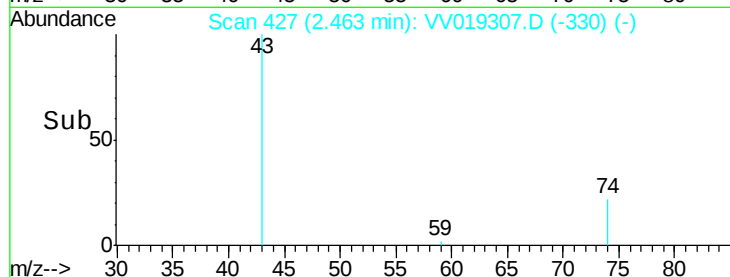
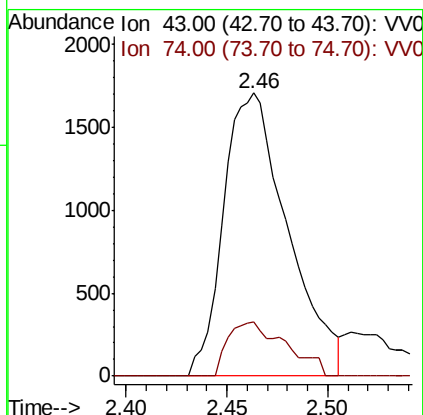
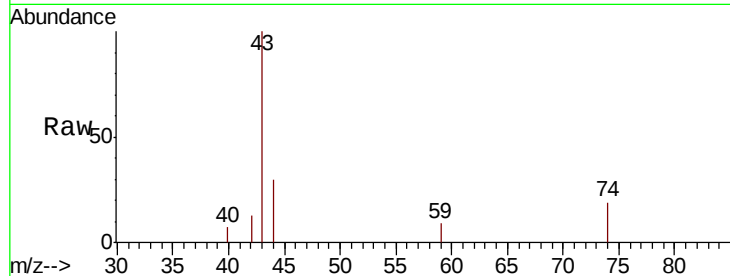




#15
Methvl Acetate
Concen: 2.347 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

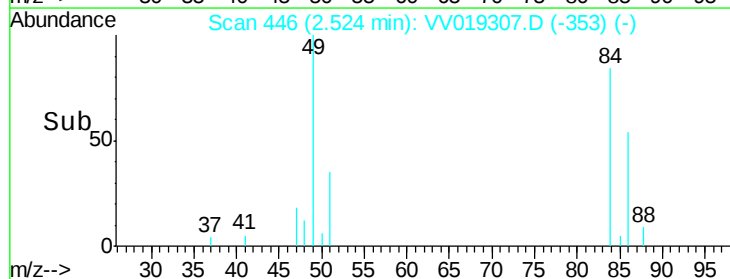
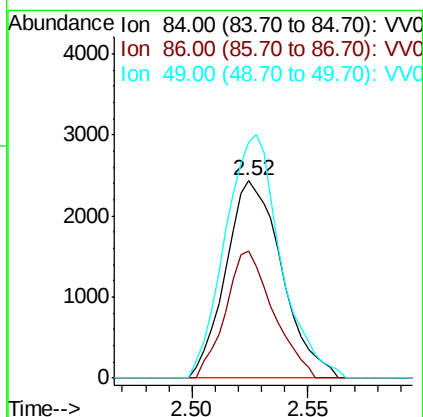
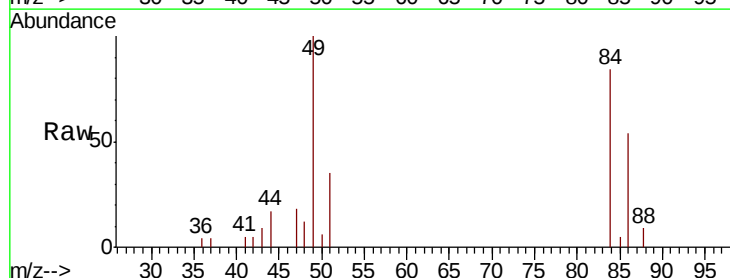
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

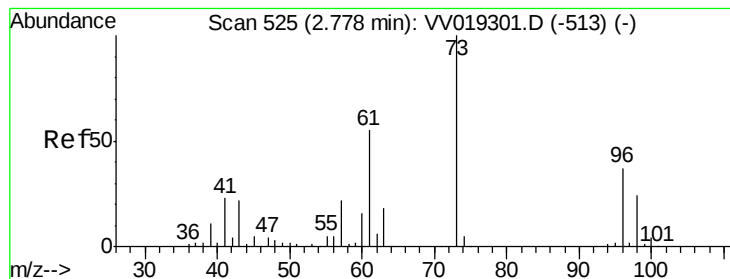
Tot Ion: 43 Resp: 3789
Ion Ratio Lower Upper
43 100
74 10.8 18.8 28.2#



#16
Methylene chloride
Concen: 2.476 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

Tgt Ion: 84 Resp: 4091
Ion Ratio Lower Upper
84 100
86 64.3 45.6 84.8
49 119.6 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 2.071 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

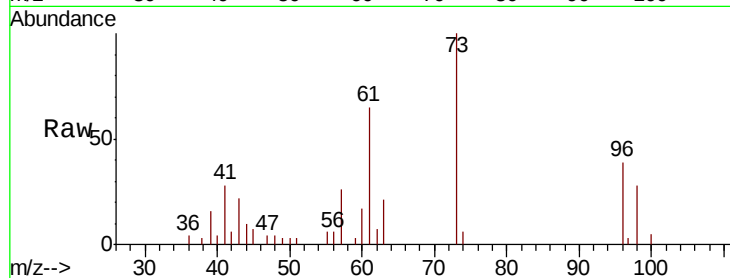
Tot Ion: 96 Resp: 3122

Ion Ratio Lower Upper

96 100

61 168.6 100.7 187.1

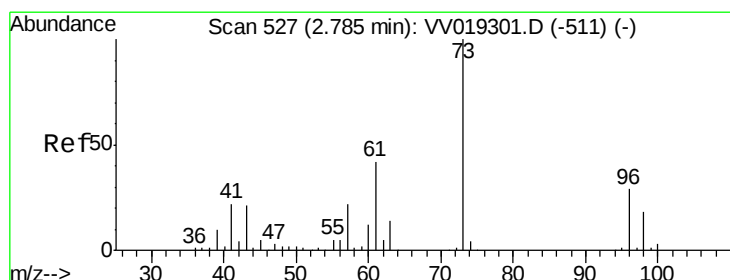
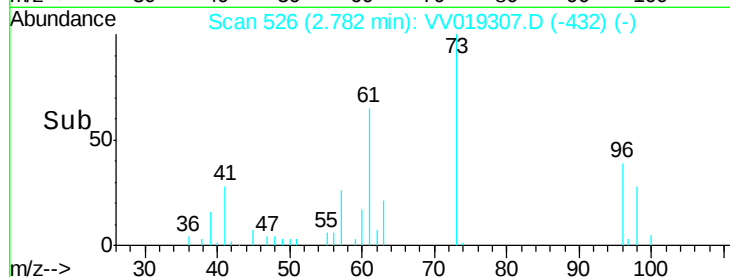
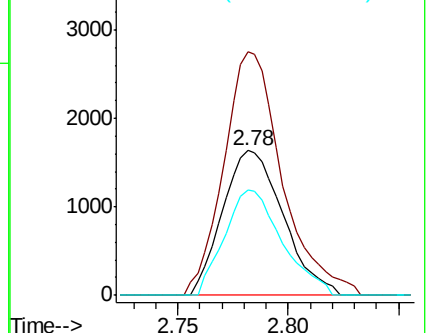
98 72.8 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VV019307.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV019307.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019307.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 1.933 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

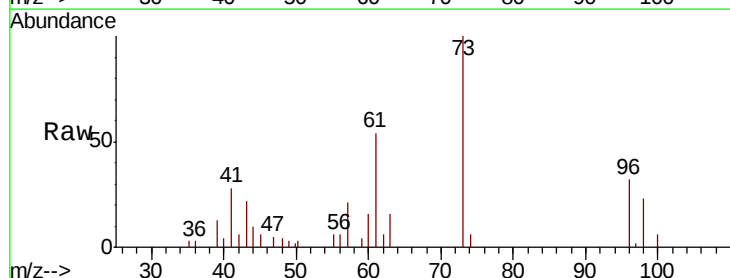
Tgt Ion: 73 Resp: 10244

Ion Ratio Lower Upper

73 100

43 22.9 17.9 26.9

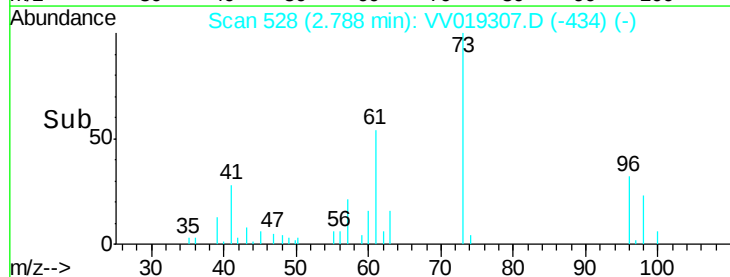
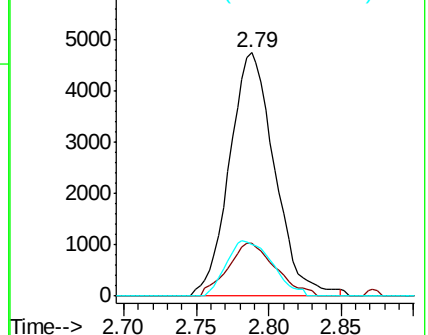
57 22.9 17.1 25.7

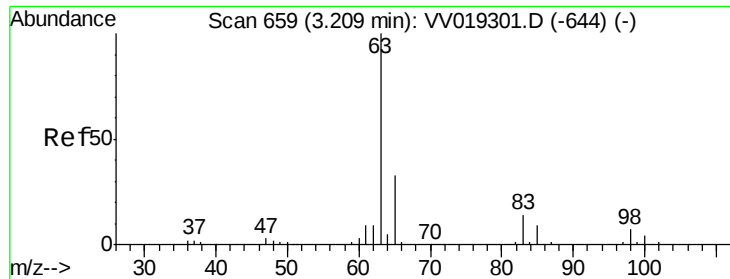


Abundance Ion 73.00 (72.70 to 73.70): VV019307.D (-434) (-)

Ion 43.00 (42.70 to 43.70): VV019307.D (-434) (-)

Ion 57.00 (56.70 to 57.70): VV019307.D (-434) (-)

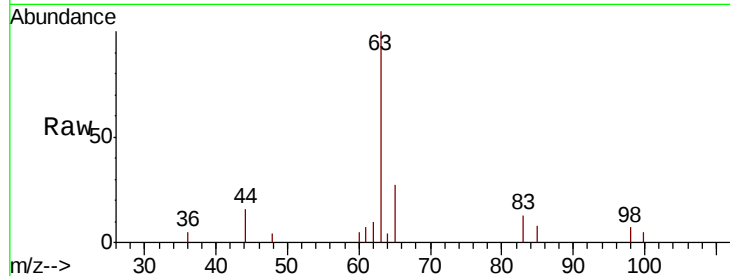




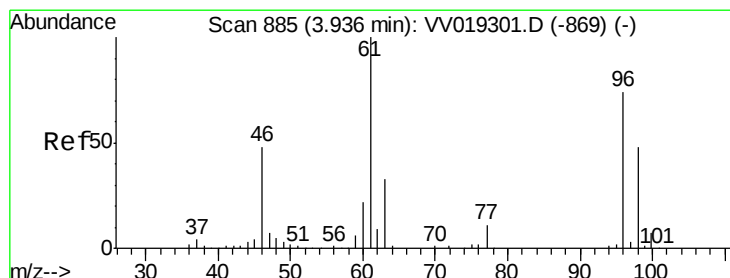
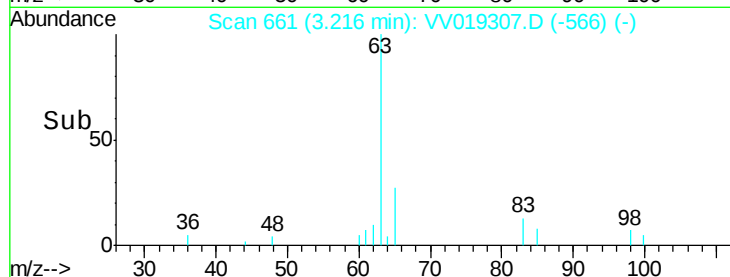
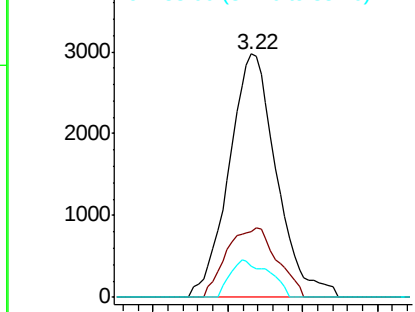
#19
 1,1-Dichloroethane
 Concen: 2.219 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion: 63 Resp: 6554
 Ion Ratio Lower Upper
 63 100
 65 27.2 21.8 40.6
 83 12.8 9.5 17.7

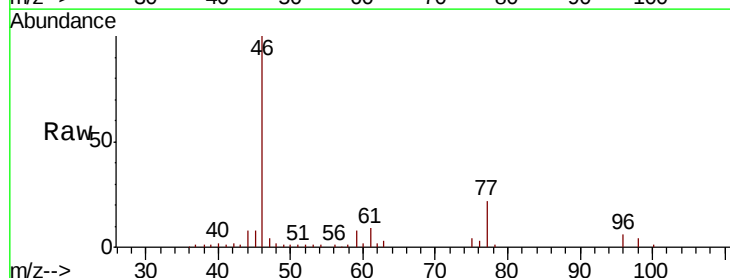


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

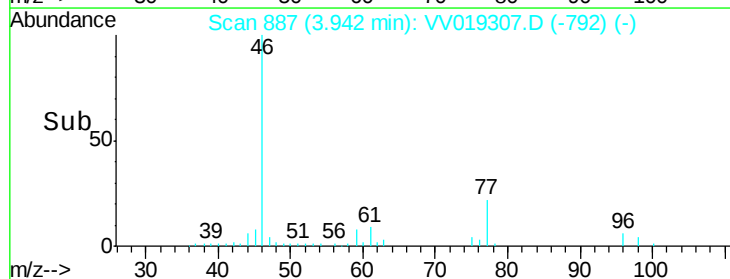
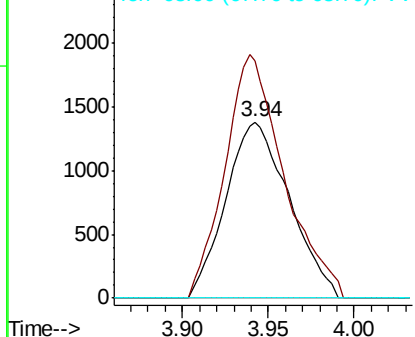


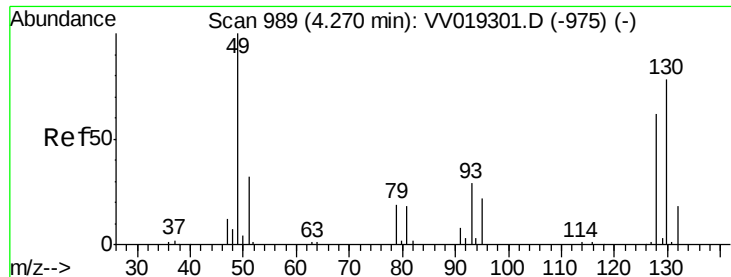
#20
 cis-1,2-Dichloroethene
 Concen: 2.132 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Tgt Ion: 96 Resp: 3552
 Ion Ratio Lower Upper
 96 100
 61 134.9 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





#23

Bromochloromethane

Concen: 1.693 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.02 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

Tot Ion:128 Resp: 1553

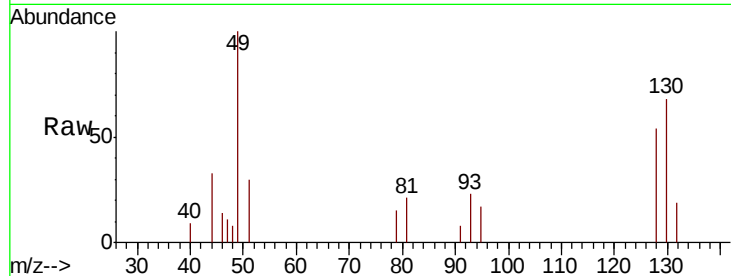
Ion Ratio Lower Upper

128 100

49 186.1 108.8 202.2

130 126.3 88.5 164.3

51 55.8 37.8 56.6

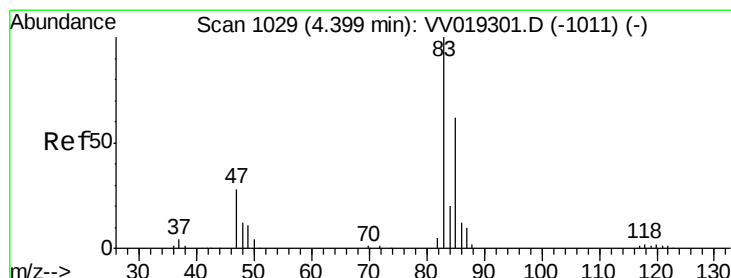
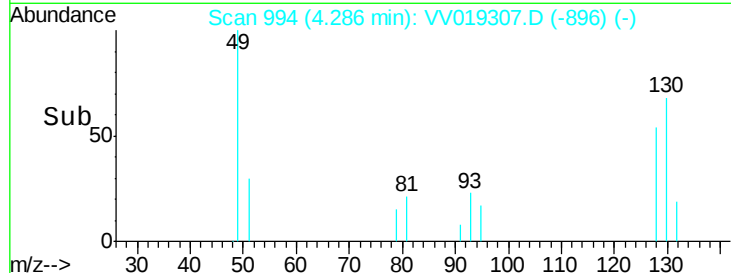
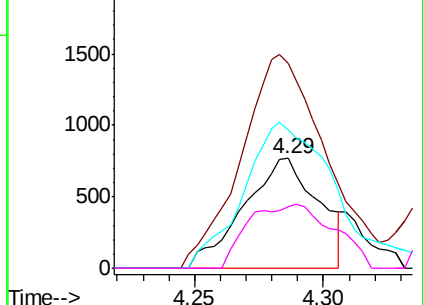


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0



#25

Chloroform

Concen: 2.741 ug/L

RT: 4.40 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VV019307.D

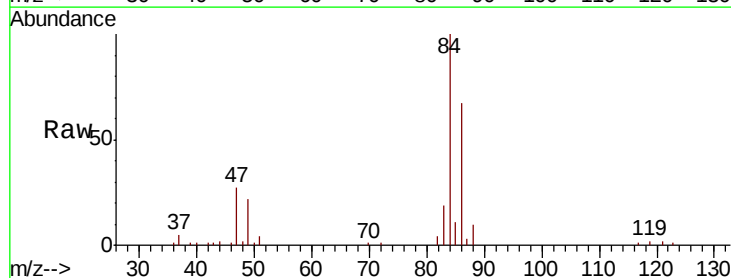
Acq: 09 Nov 2020 17:11

Tgt Ion: 83 Resp: 8680

Ion Ratio Lower Upper

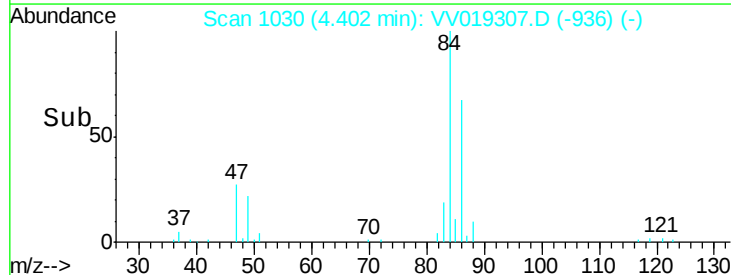
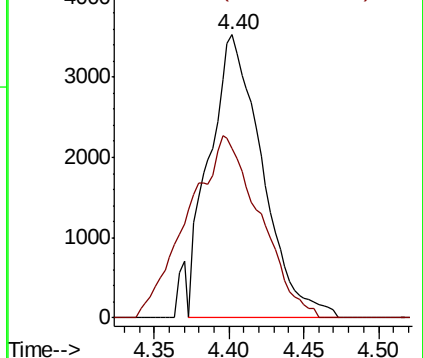
83 100

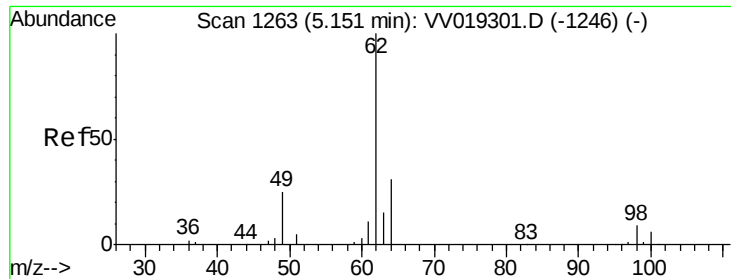
85 60.0 45.4 84.4



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

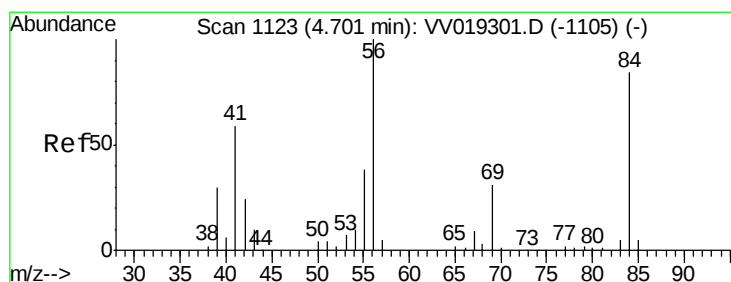
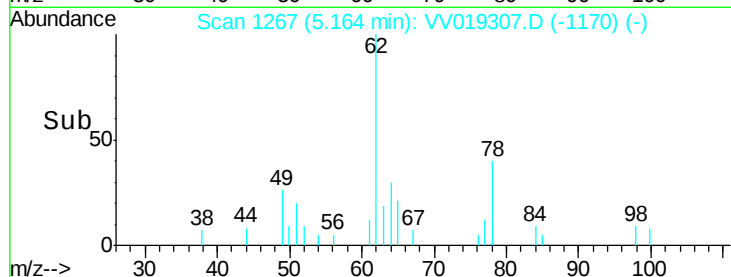
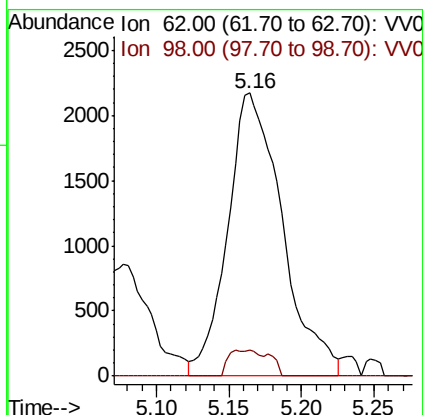
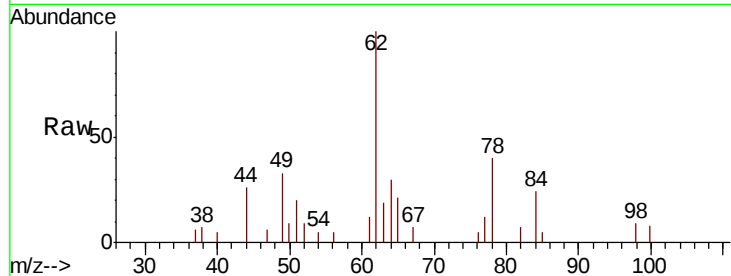




#27
 1,2-Dichloroethane
 Concen: 2.119 ug/L
 RT: 5.16 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

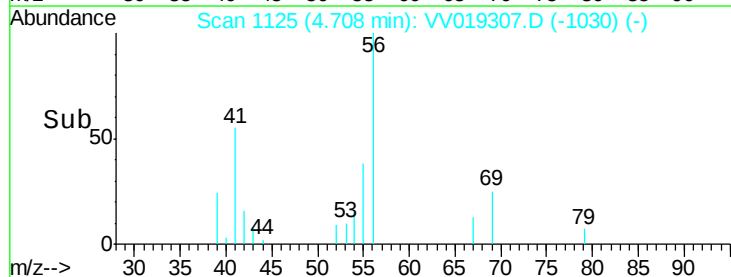
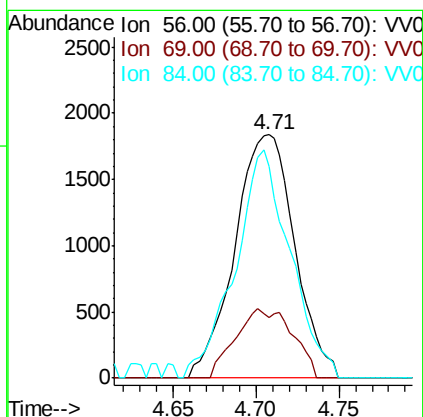
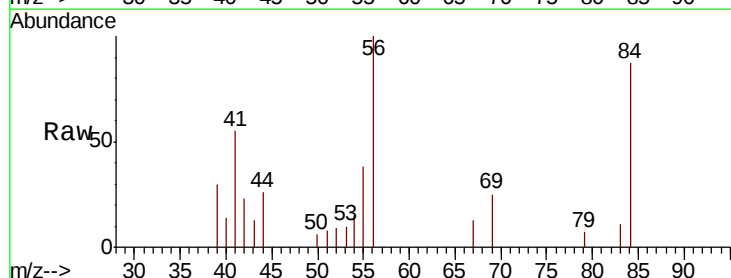
Instrument :
 MSVOA_V
 ClientSampleID :
 MDL-WATER-05

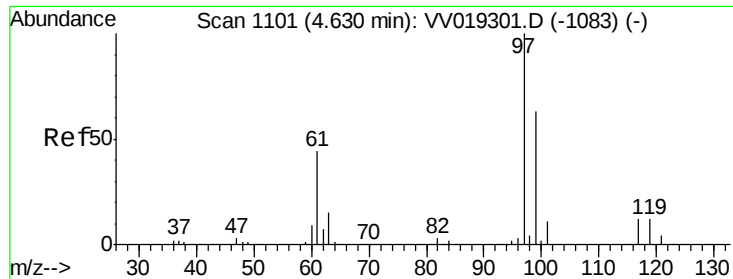
Tot Ion: 62 Resp: 5704
 Ion Ratio Lower Upper
 62 100
 98 9.3 6.8 10.2



#29
 Cyclohexane
 Concen: 2.125 ug/L
 RT: 4.71 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Tgt Ion: 56 Resp: 4619
 Ion Ratio Lower Upper
 56 100
 69 16.0 24.6 36.8#
 84 85.9 70.5 105.7

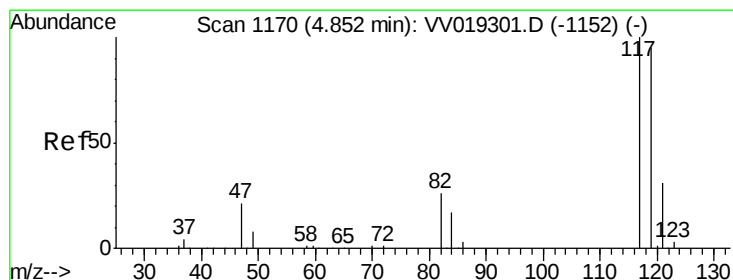
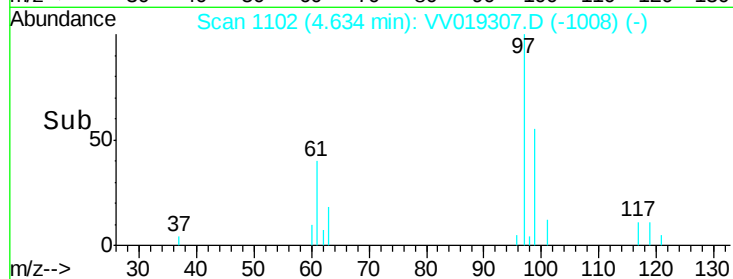
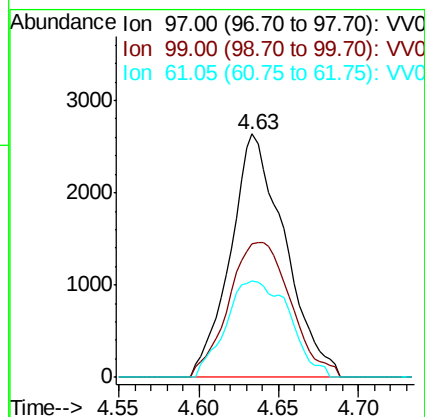
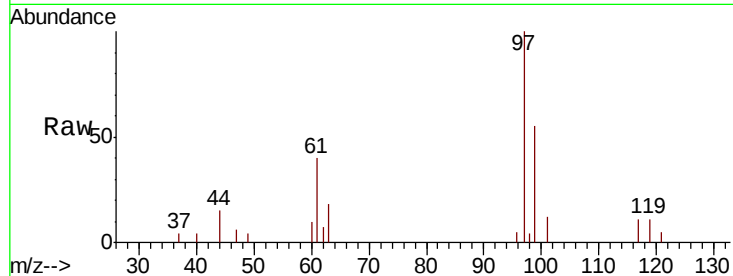




#30
 1,1,1-Trichloroethane
 Concen: 2.083 ug/L
 RT: 4.63 min Scan# 1102
 Delta R.T. 0.00 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

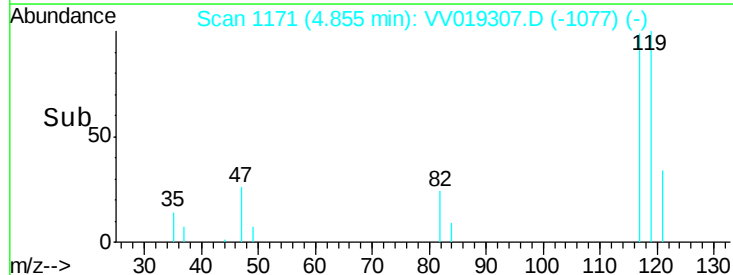
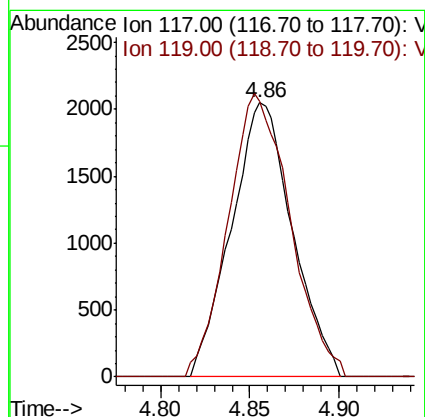
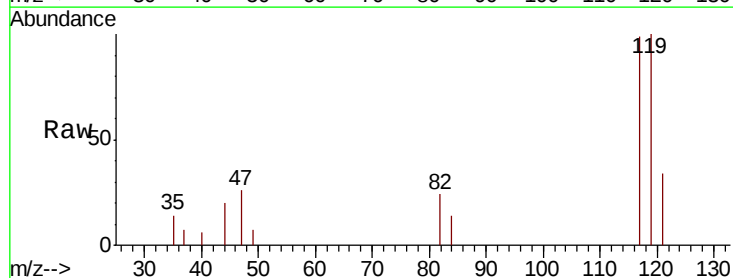
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

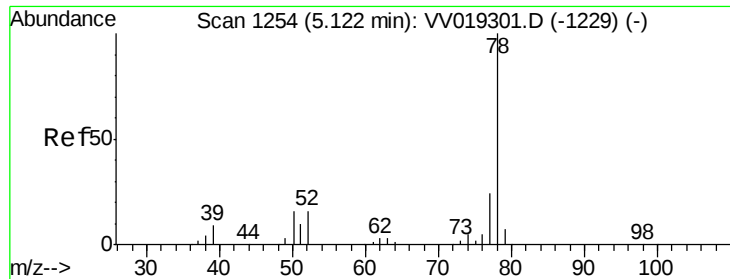
Tot Ion: 97 Resp: 6137
 Ion Ratio Lower Upper
 97 100
 99 63.3 52.0 78.0
 61 33.0 35.3 52.9#



#31
 Carbon tetrachloride
 Concen: 1.931 ug/L
 RT: 4.86 min Scan# 1171
 Delta R.T. 0.00 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Tgt Ion: 117 Resp: 4911
 Ion Ratio Lower Upper
 117 100
 119 104.4 77.8 116.6





#33

Benzene

Concen: 2.324 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

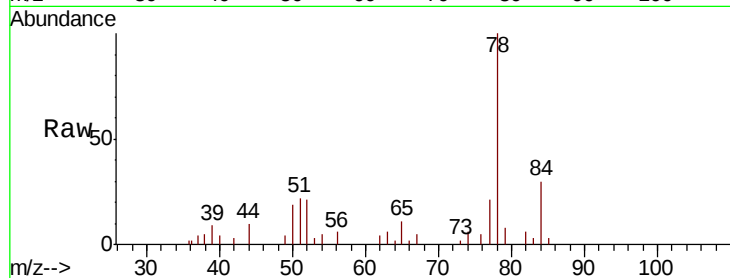
Instrument :

MSVOA_V

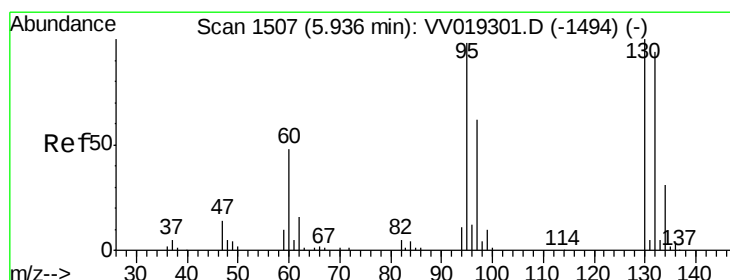
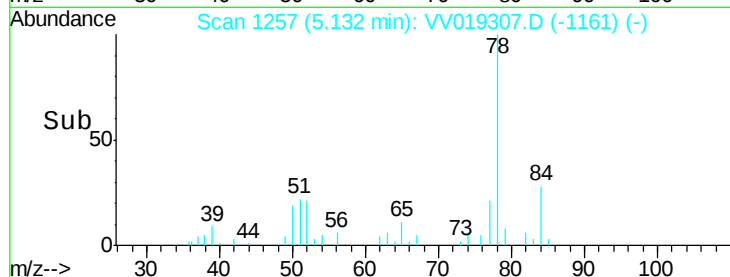
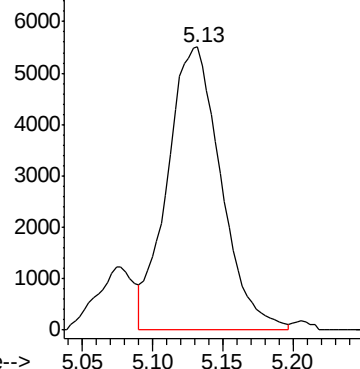
ClientSampleId :

MDL-WATER-05

Tgt Ion: 78 Resp: 14669



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 2.213 ug/L

RT: 5.95 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Tgt Ion: 95 Resp: 3796

Ion	Ratio	Lower	Upper
95	100		
97	70.4	45.4	84.4
132	96.3	68.5	127.3
130	108.3	72.0	133.6

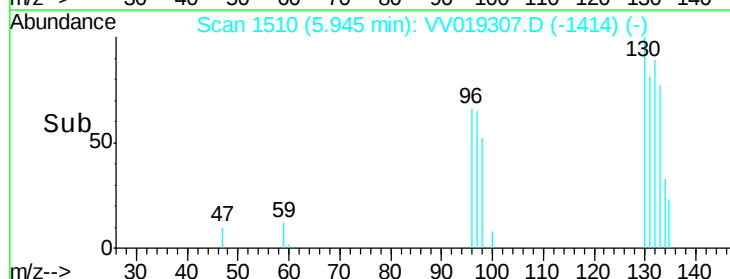
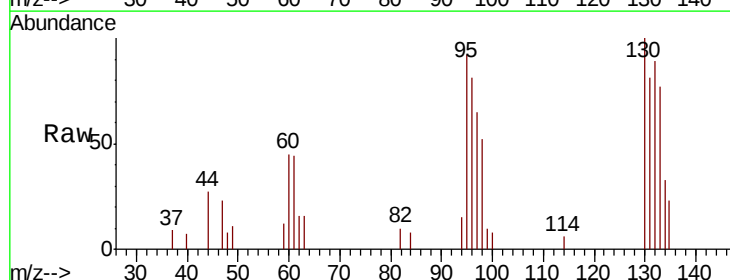
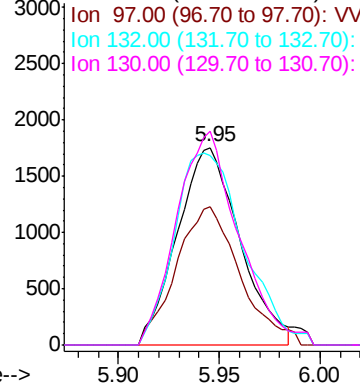
Ion 95.00 (94.70 to 95.70): VV0

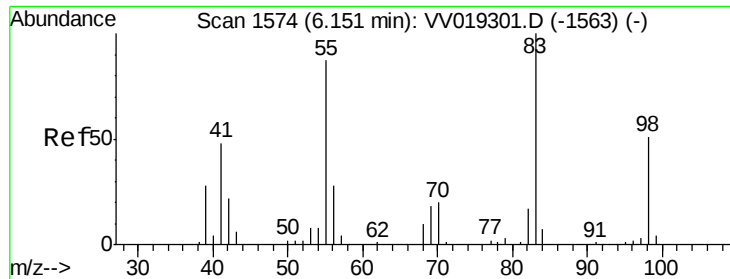
Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

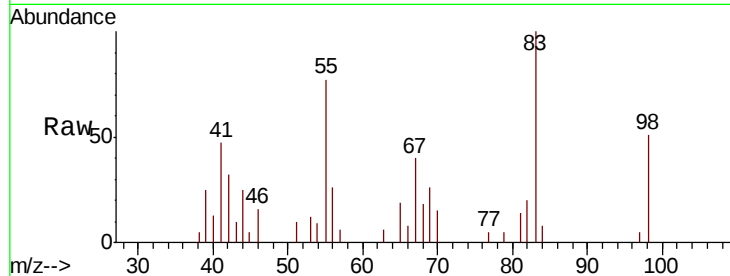




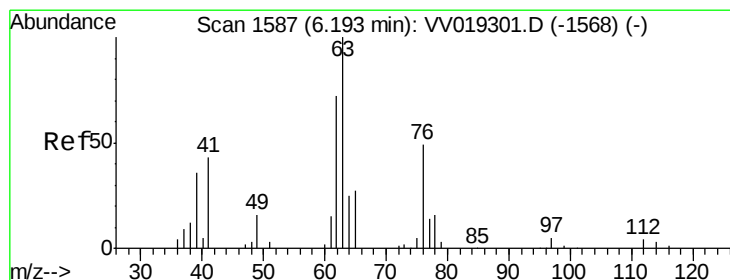
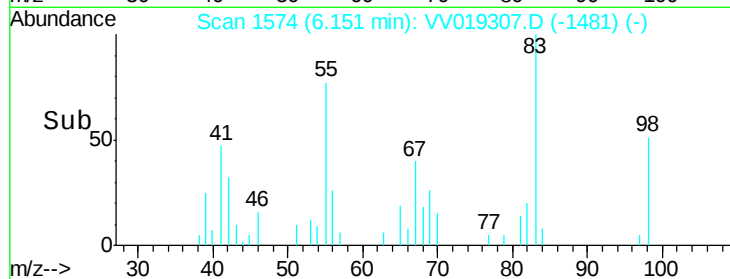
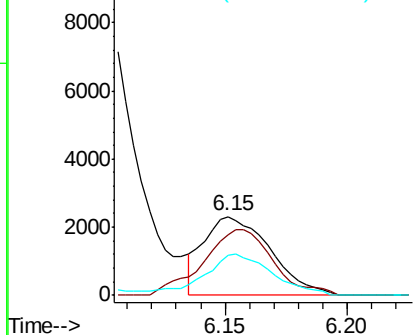
#35
Methylcyclohexane
Concen: 2.110 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion: 83 Resp: 4382
Ion Ratio Lower Upper
83 100
55 87.1 62.8 94.2
98 50.2 38.6 58.0

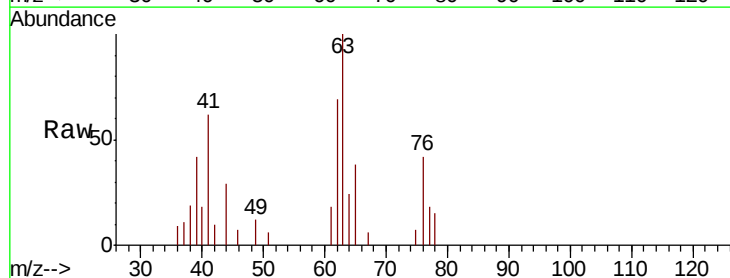


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

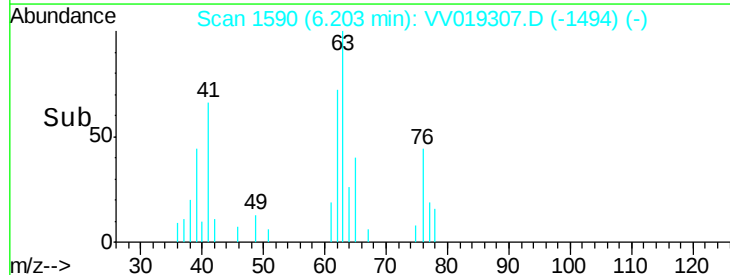
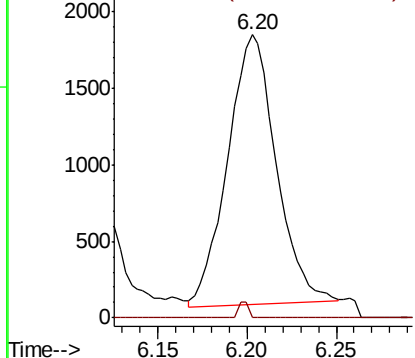


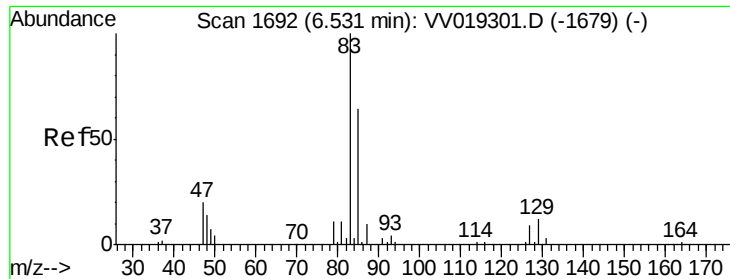
#37
1,2-Dichloropropane
Concen: 1.991 ug/L
RT: 6.20 min Scan# 1590
Delta R.T. 0.01 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

Tgt Ion: 63 Resp: 3354
Ion Ratio Lower Upper
63 100
112 1.2 4.2 6.2#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V





#38

Bromodichloromethane

Concen: 2.049 ug/L

RT: 6.54 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

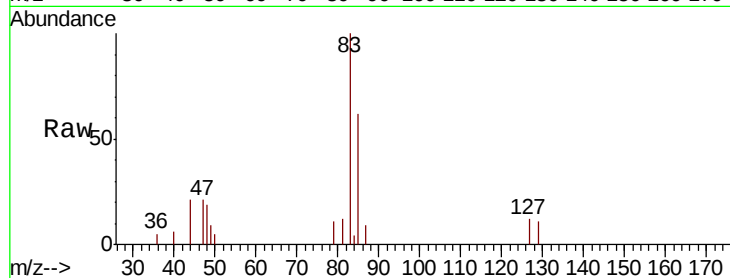
Tot Ion: 83 Resp: 4969

Ion Ratio Lower Upper

83 100

85 61.9 44.0 81.8

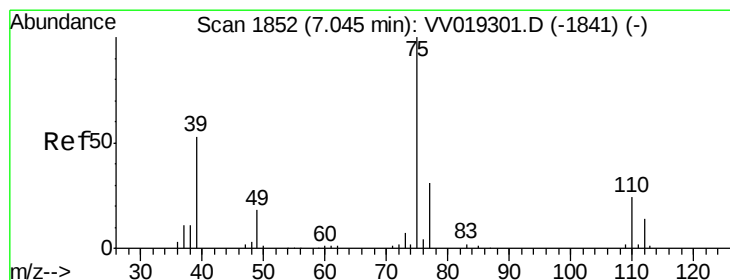
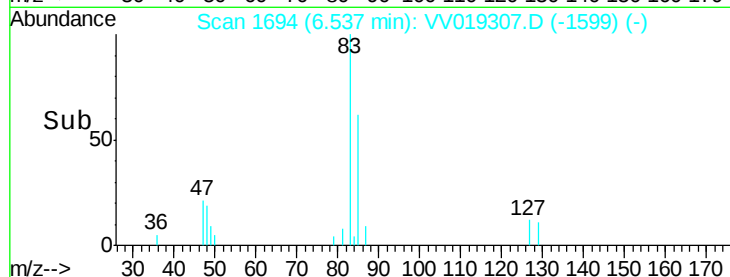
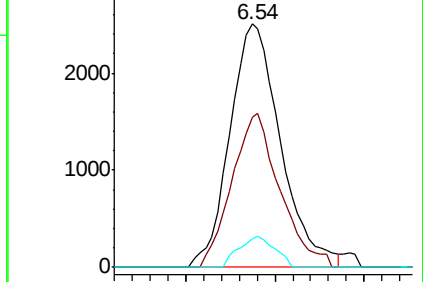
127 11.7 7.3 10.9#



Abundance Ion 83.00 (82.70 to 83.70): VV019307.D (-1599) (-)

Ion 85.00 (84.70 to 85.70): VV019307.D (-1599) (-)

Ion 127.00 (126.70 to 127.70): VV019307.D (-1599) (-)



#39

cis-1,3-Dichloropropene

Concen: 1.828 ug/L

RT: 7.05 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VV019307.D

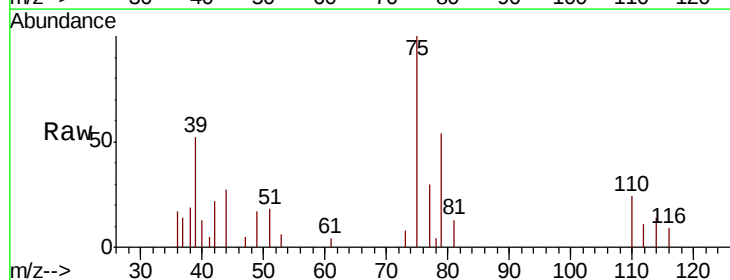
Acq: 09 Nov 2020 17:11

Tgt Ion: 75 Resp: 4928

Ion Ratio Lower Upper

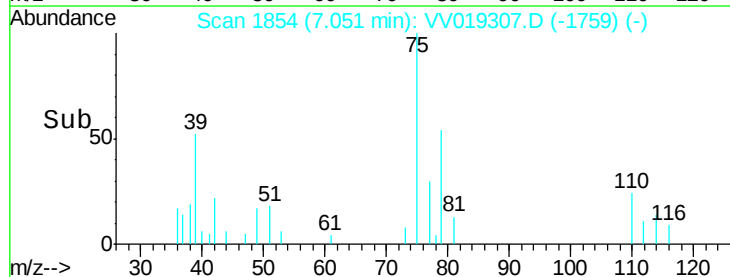
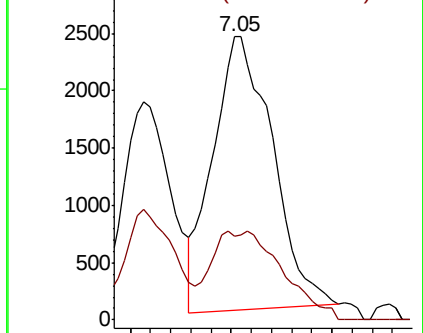
75 100

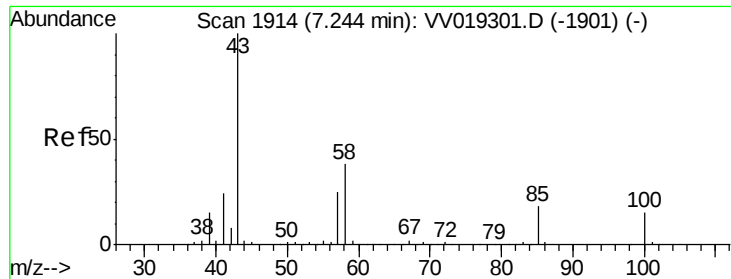
77 29.6 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV019307.D (-1759) (-)

Ion 77.00 (76.70 to 77.70): VV019307.D (-1759) (-)

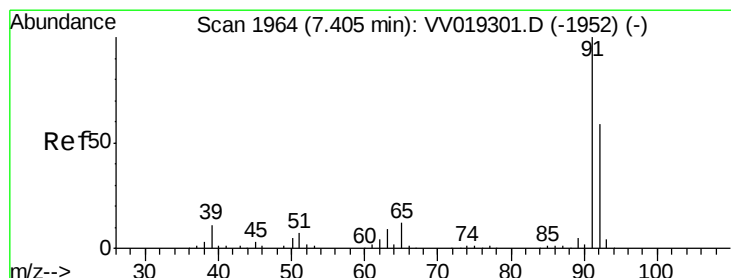
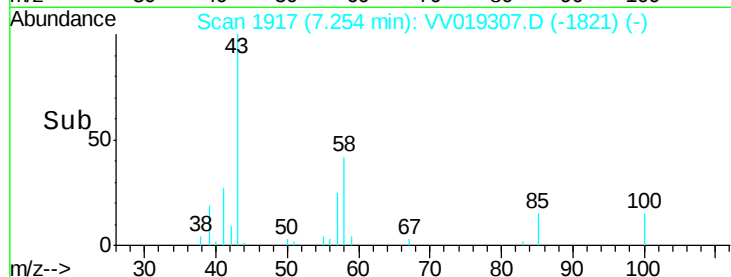
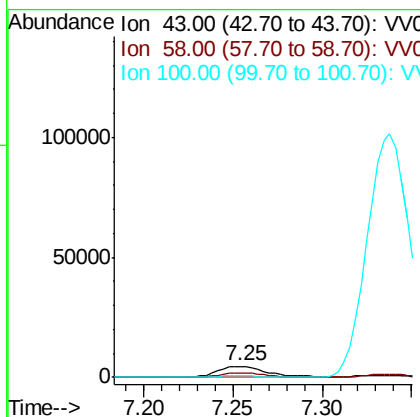
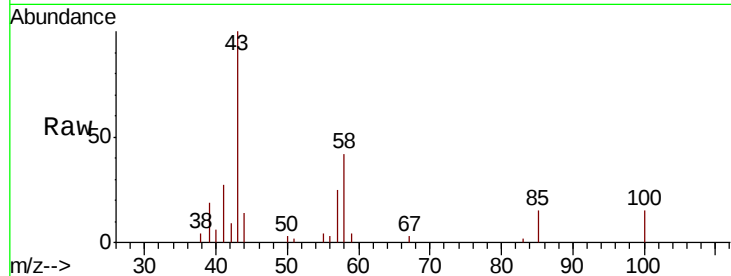




#40
4-Methyl-2-pentanone
Concen: 3.964 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.01 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

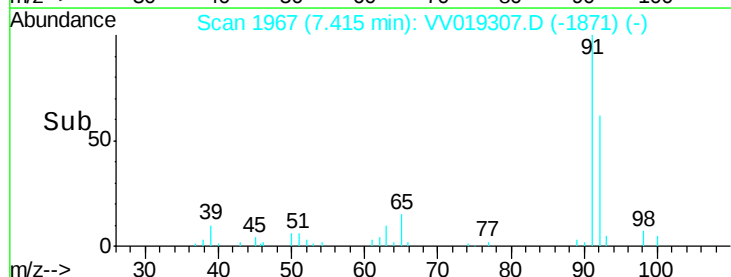
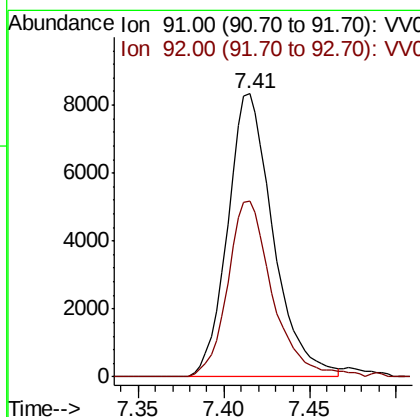
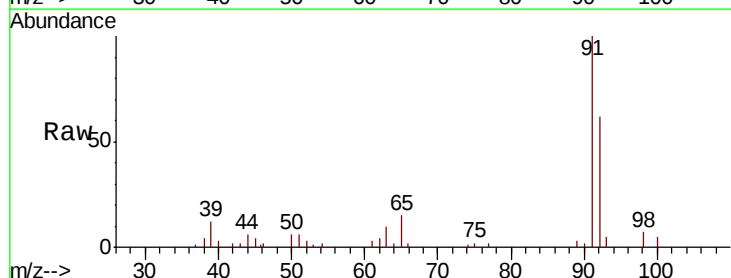
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

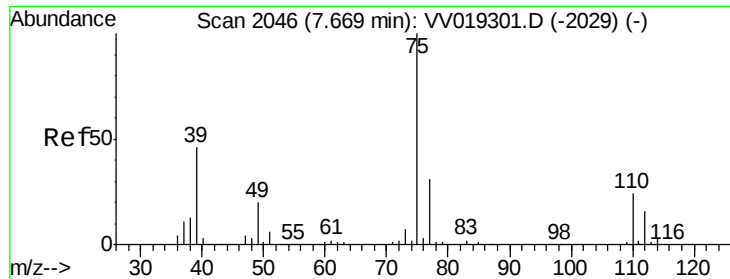
Tot Ion: 43 Resp: 8972
Ion Ratio Lower Upper
43 100
58 38.0 30.5 45.7
100 13.6 12.7 19.1



#42
Toluene
Concen: 2.257 ug/L
RT: 7.41 min Scan# 1967
Delta R.T. 0.01 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

Tgt Ion: 91 Resp: 15400
Ion Ratio Lower Upper
91 100
92 62.2 40.6 75.4





#44

trans-1,3-Dichloropropene

Concen: 2.038 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

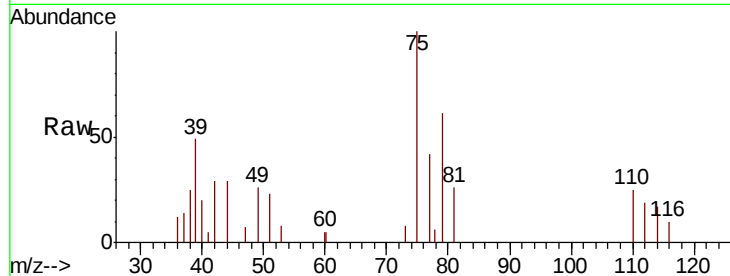
MDL-WATER-05

Tot Ion: 75 Resp: 5630

Ion Ratio Lower Upper

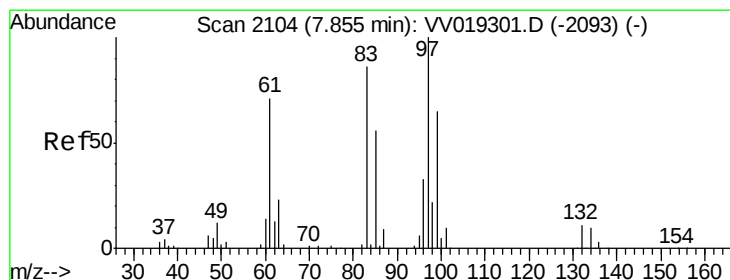
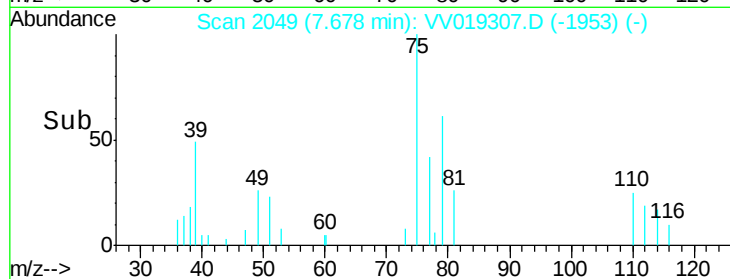
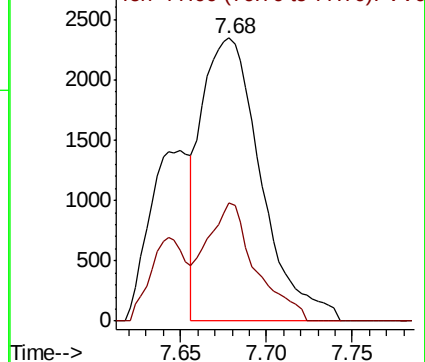
75 100

77 41.6 21.6 40.2#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#45

1,1,2-Trichloroethane

Concen: 1.978 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Tgt Ion: 97 Resp: 3294

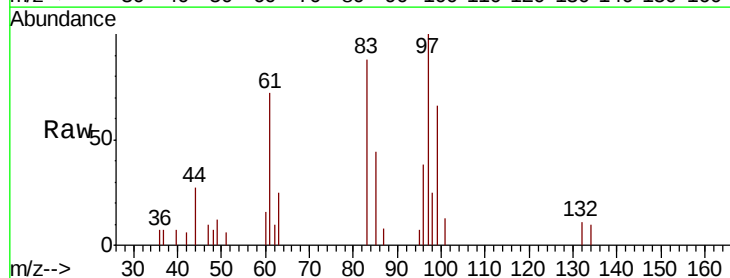
Ion Ratio Lower Upper

97 100

99 66.1 45.1 83.9

83 88.2 57.6 107.0

85 43.9 37.8 70.2

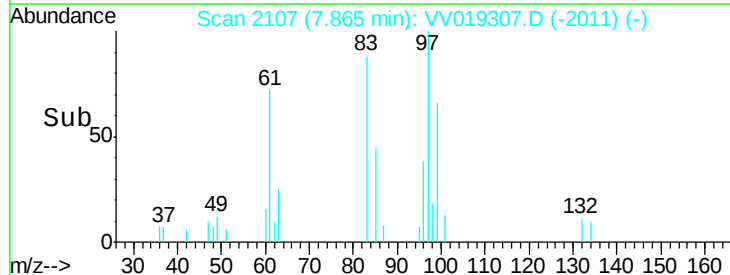
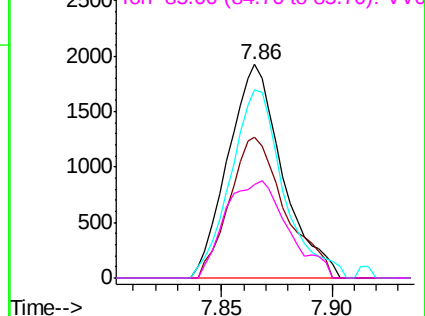


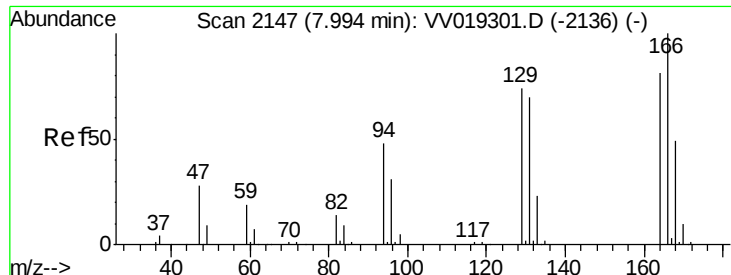
Abundance Ion 97.00 (96.70 to 97.70): VV0

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

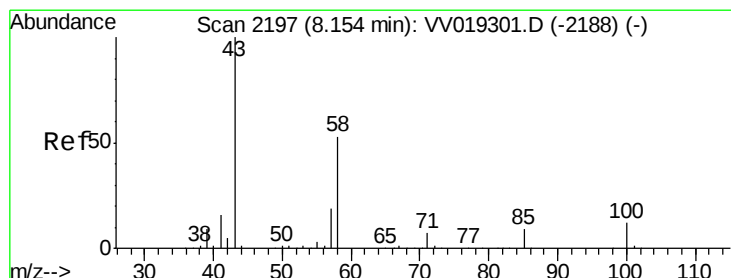
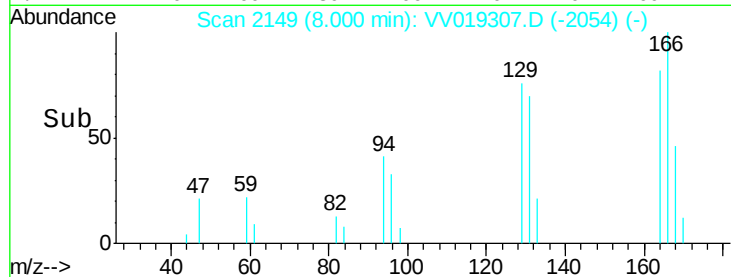
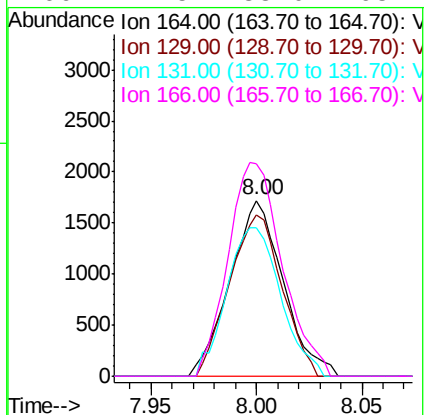
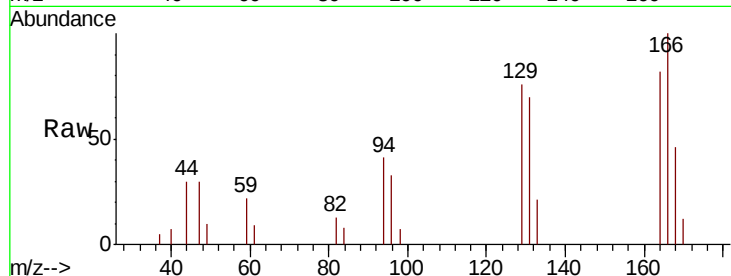




#46
Tetrachloroethene
Concen: 2.160 ug/L
RT: 8.00 min Scan# 2149
Delta R.T. 0.01 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

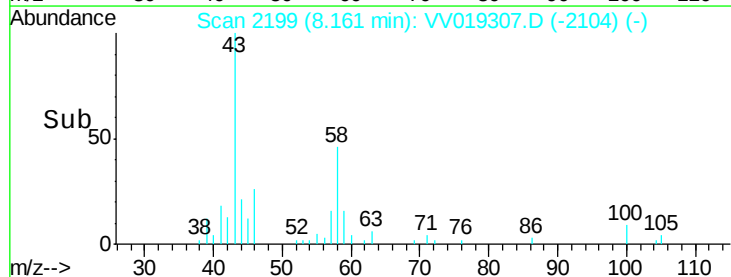
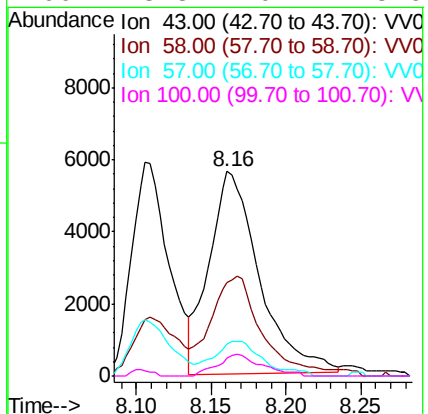
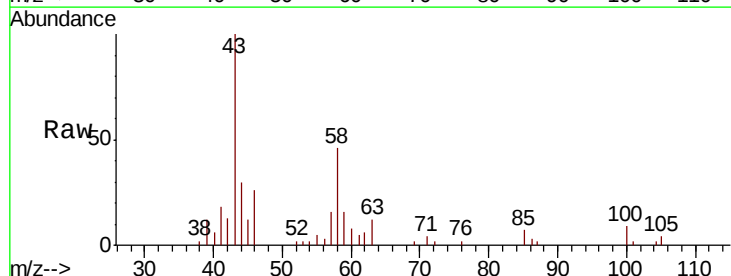
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

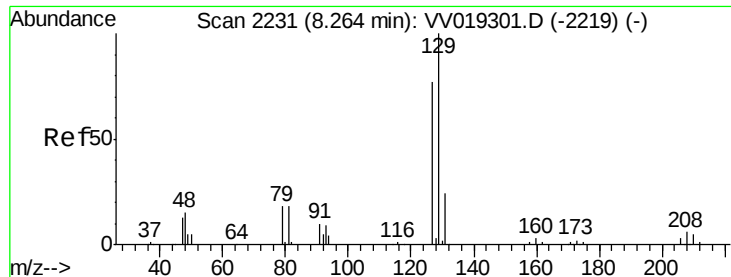
Tot Ion:164 Resp: 3023
Ion Ratio Lower Upper
164 100
129 91.8 62.6 116.3
131 84.5 59.0 109.6
166 121.5 88.0 163.4



#48
2-Hexanone
Concen: 7.696 ug/L
RT: 8.16 min Scan# 2199
Delta R.T. 0.01 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

Tgt Ion: 43 Resp: 13168
Ion Ratio Lower Upper
43 100
58 44.6 42.6 63.8
57 12.1 15.8 23.8#
100 8.8 10.4 15.6#





#49

Dibromochloromethane

Concen: 1.984 ug/L

RT: 8.27 min Scan# 2233

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

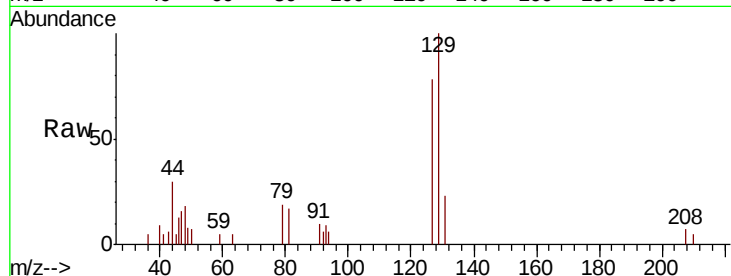
MDL-WATER-05

Tot Ion:129 Resp: 3940

Ion Ratio Lower Upper

129 100

127 77.9 54.4 101.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.27

2500

2000

1500

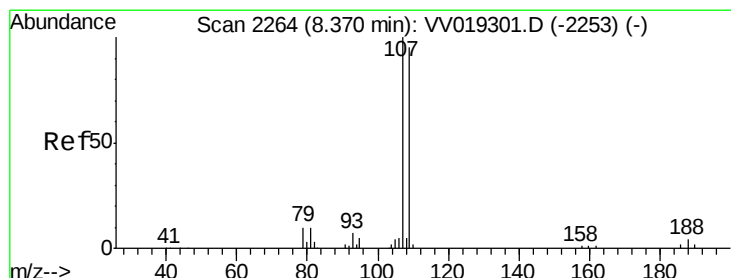
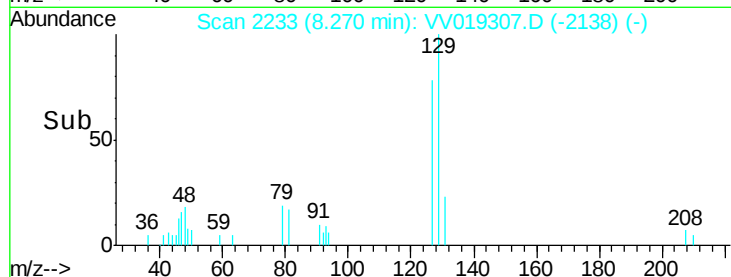
1000

500

0

8.25 8.30

Time-->



#50

1,2-Dibromoethane

Concen: 2.032 ug/L

RT: 8.38 min Scan# 2267

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

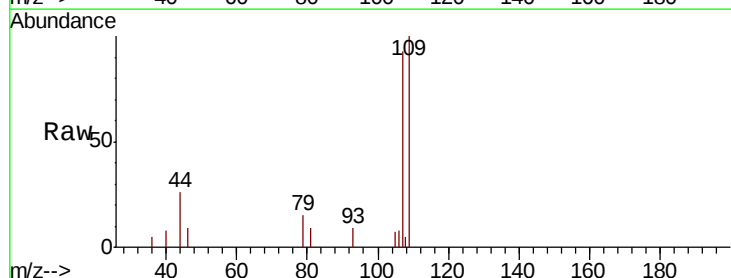
Tgt Ion:107 Resp: 3507

Ion Ratio Lower Upper

107 100

109 107.7 64.8 120.4

188 0.0 3.8 5.8#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

8.38

2500

2000

1500

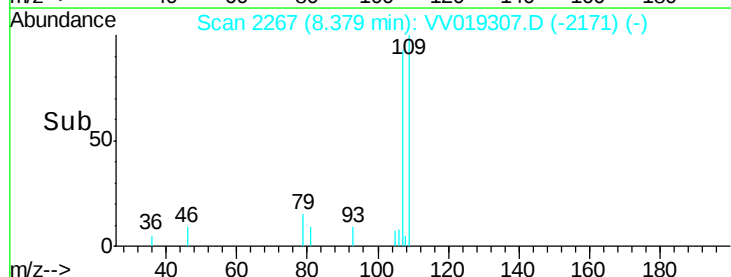
1000

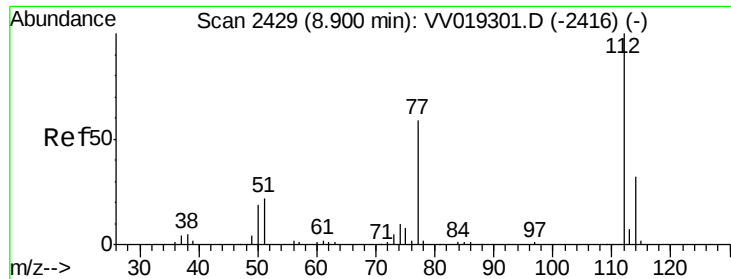
500

0

8.35 8.40

Time-->





#51

Chlorobenzene

Concen: 2.171 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

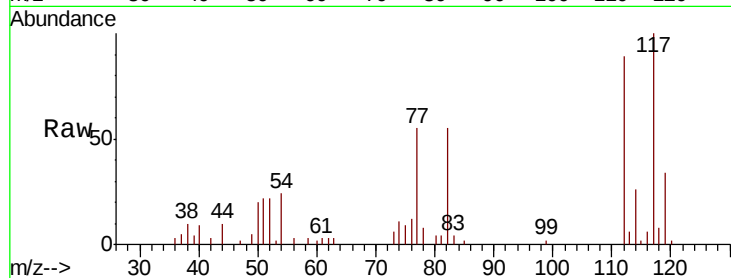
Tot Ion:112 Resp: 9910

Ion Ratio Lower Upper

112 100

114 29.2 22.7 42.1

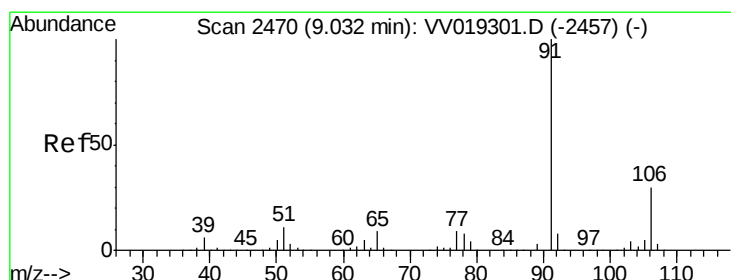
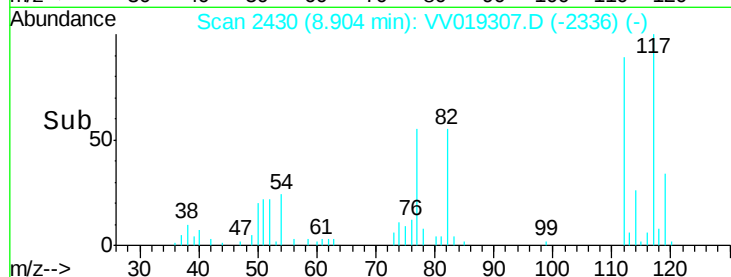
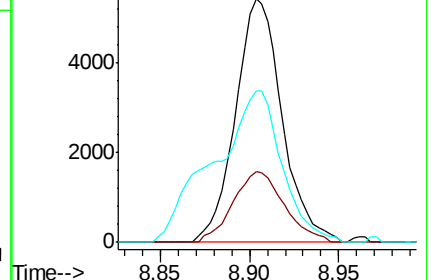
77 62.1 47.3 70.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 1.906 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019307.D

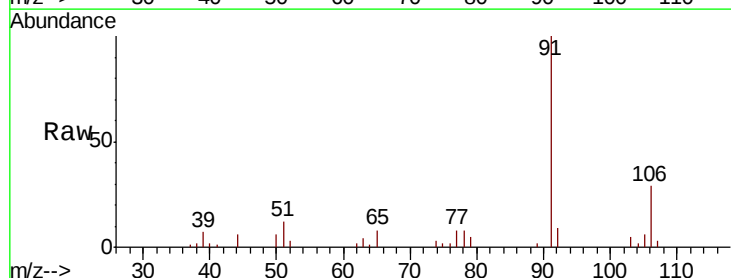
Acq: 09 Nov 2020 17:11

Tgt Ion: 91 Resp: 14350

Ion Ratio Lower Upper

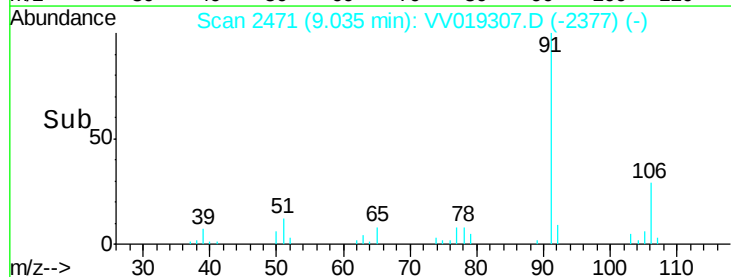
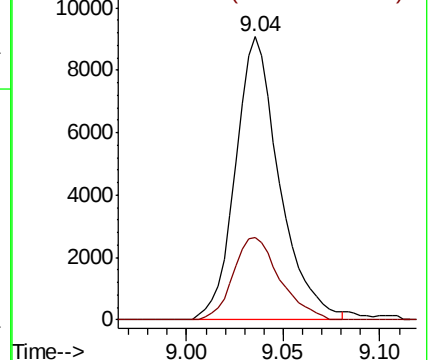
91 100

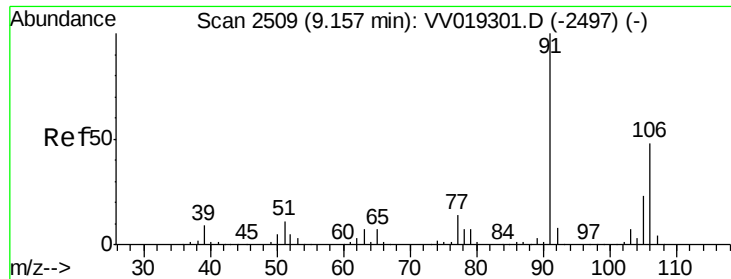
106 29.3 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

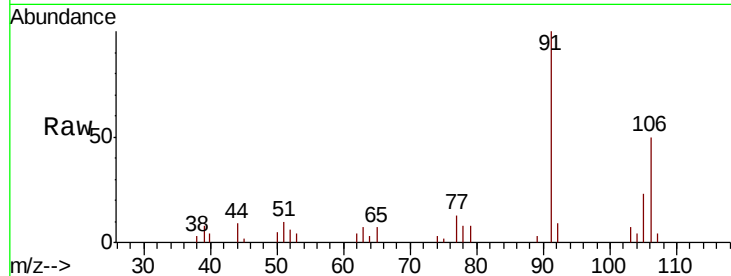




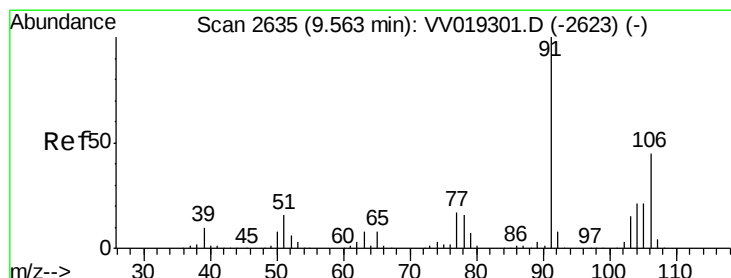
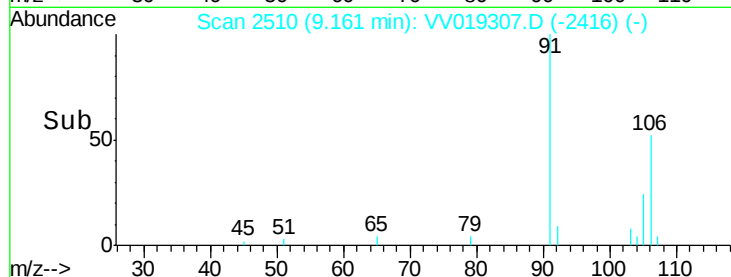
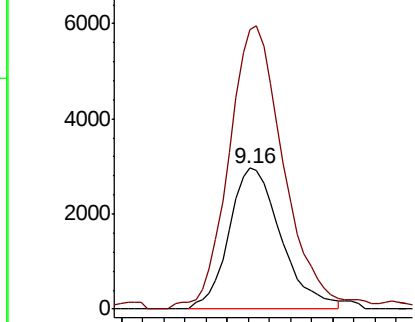
#53
m,p-Xylene
Concen: 1.803 ug/L
RT: 9.16 min Scan# 2510
Delta R.T. 0.00 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-05

Tot Ion:106 Resp: 5081
Ion Ratio Lower Upper
106 100
91 198.6 147.2 273.4

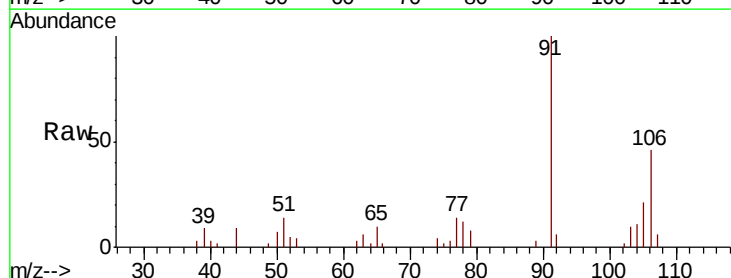


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

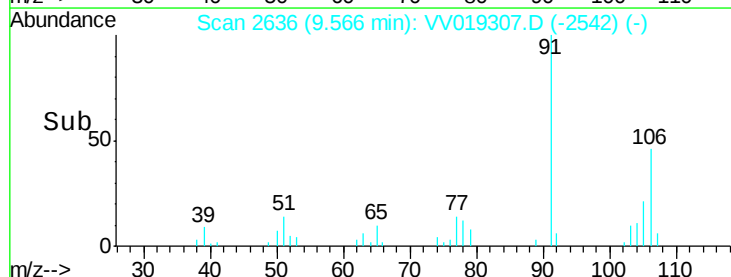
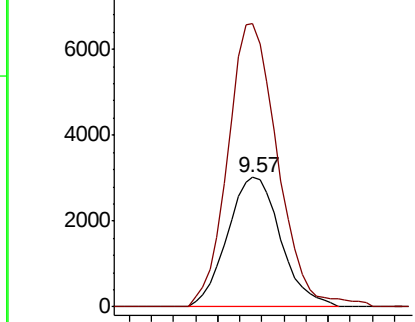


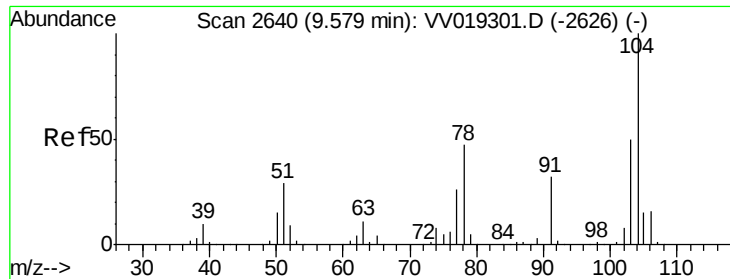
#54
o-Xylene
Concen: 1.821 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019307.D
Acq: 09 Nov 2020 17:11

Tgt Ion:106 Resp: 5060
Ion Ratio Lower Upper
106 100
91 219.1 151.6 281.6



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





#55

Stvrene

Concen: 1.501 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

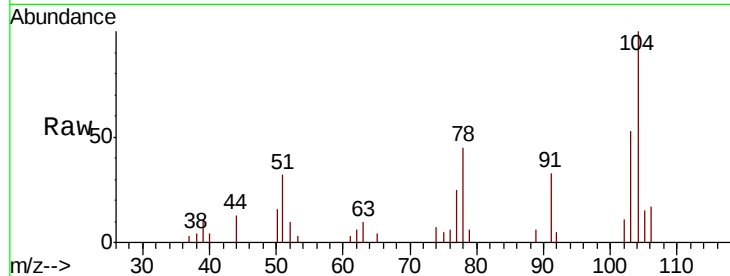
MDL-WATER-05

Tot Ion:104 Resp: 7424

Ion Ratio Lower Upper

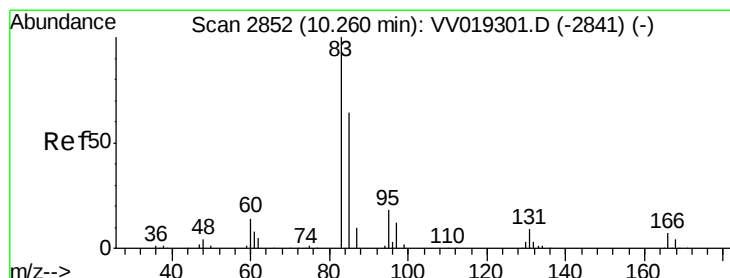
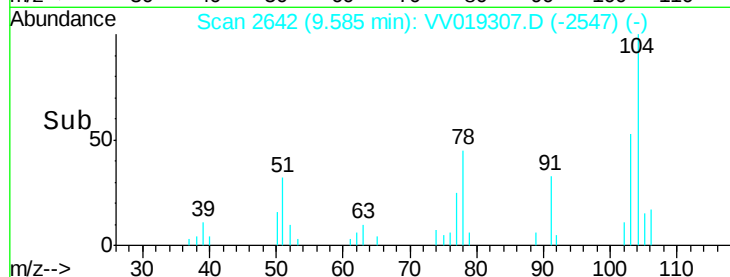
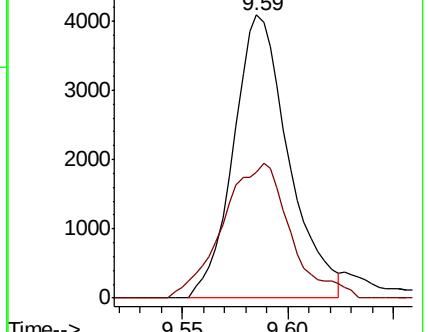
104 100

78 44.6 32.6 60.5



Abundance Ion 104.00 (103.70 to 104.70): VV019301.D (-2626) (-)

Ion 78.00 (77.70 to 78.70): VV019301.D (-2626) (-)



#57

1,1,2,2-Tetrachloroethane

Concen: 2.296 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

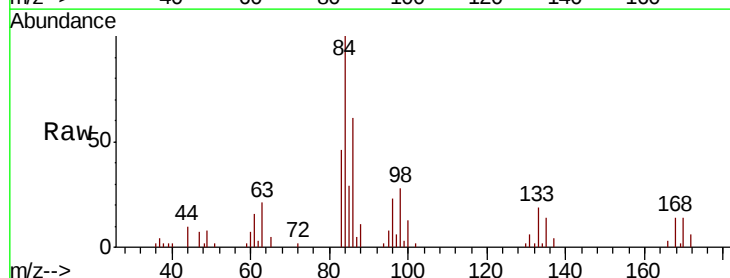
Tgt Ion: 83 Resp: 5785

Ion Ratio Lower Upper

83 100

85 63.5 45.0 83.6

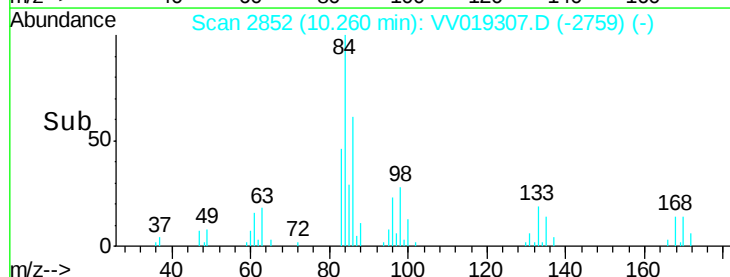
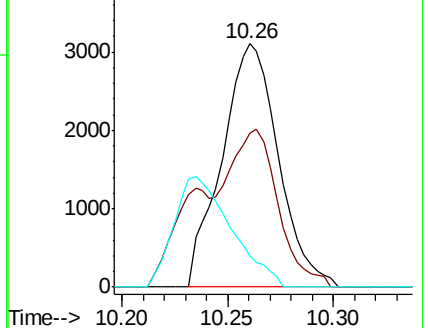
131 12.8 8.9 13.3

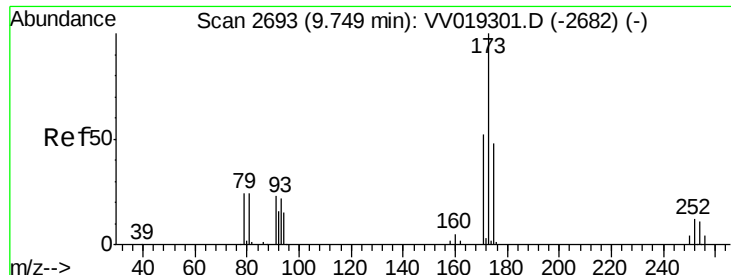


Abundance Ion 83.00 (82.70 to 83.70): VV019301.D (-2841) (-)

Ion 85.00 (84.70 to 85.70): VV019301.D (-2841) (-)

Ion 131.00 (130.70 to 131.70): VV019301.D (-2841) (-)





#59

Bromoform

Concen: 1.986 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

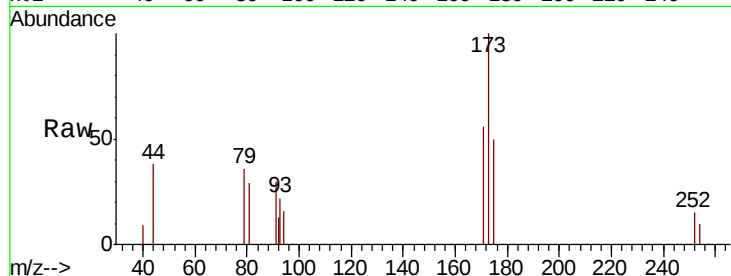
Tot Ion:173 Resp: 2756

Ion Ratio Lower Upper

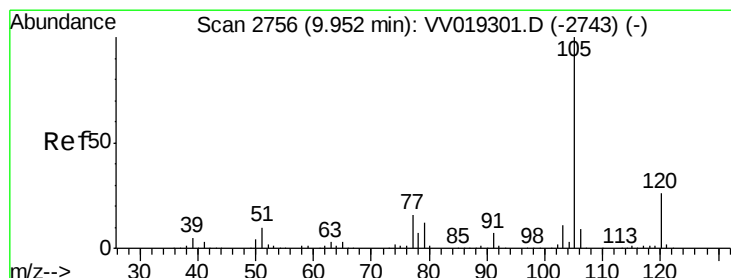
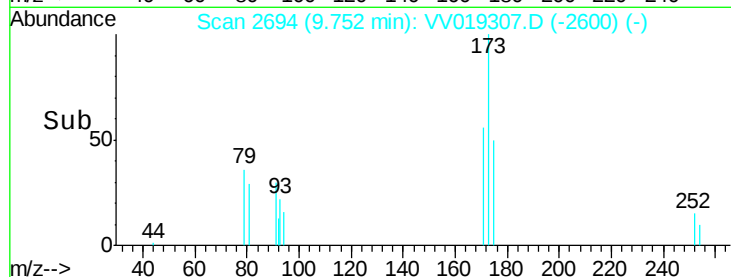
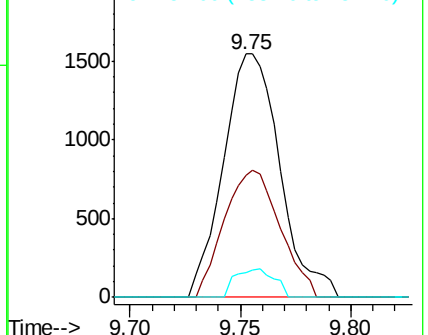
173 100

175 51.5 38.4 57.6

254 8.1 9.0 13.6#



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#60

Isopropylbenzene

Concen: 1.931 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

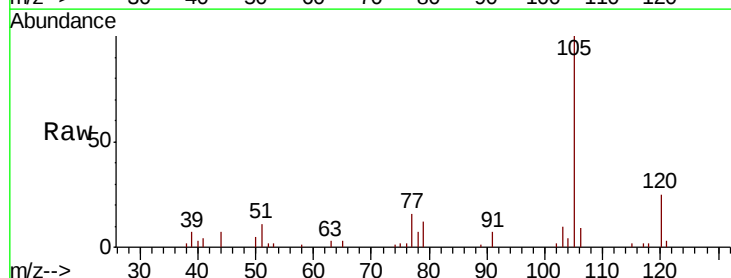
Tgt Ion:105 Resp: 12653

Ion Ratio Lower Upper

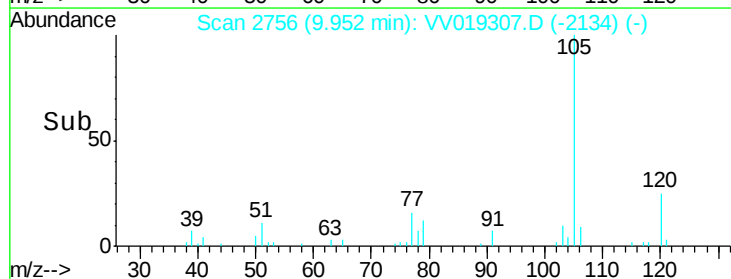
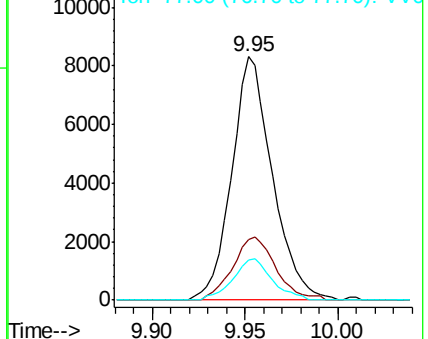
105 100

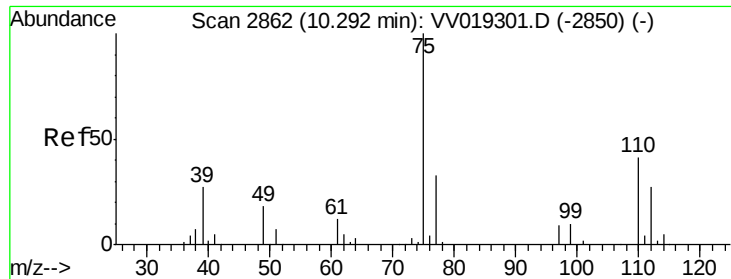
120 27.4 21.0 31.4

77 16.2 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

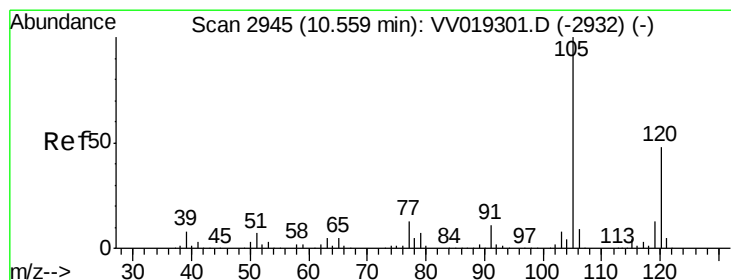
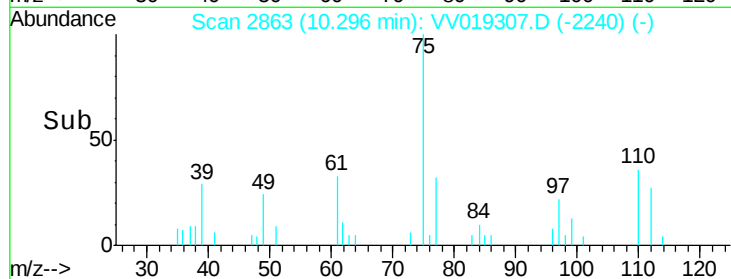
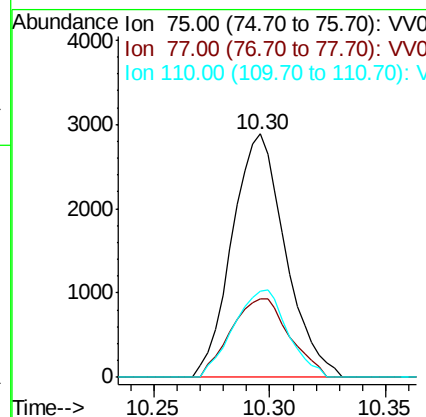
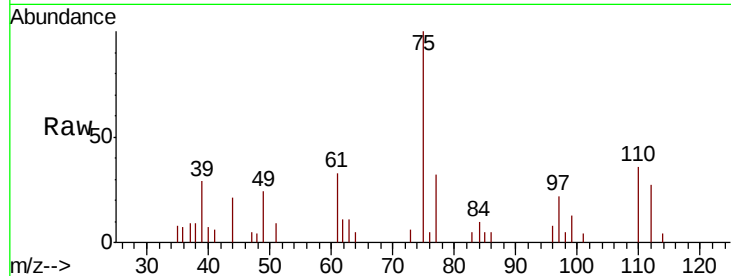




#61
 1,2,3-Trichloropropane
 Concen: 2.371 ug/L
 RT: 10.30 min Scan# 2863
 Delta R.T. 0.00 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

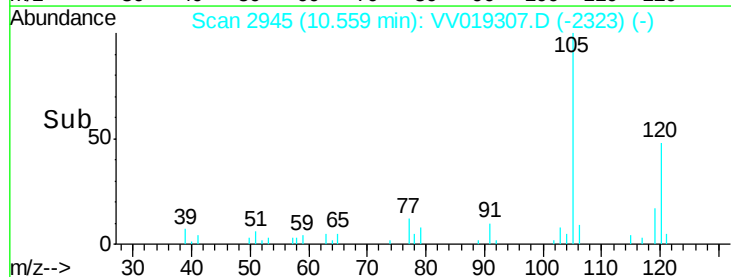
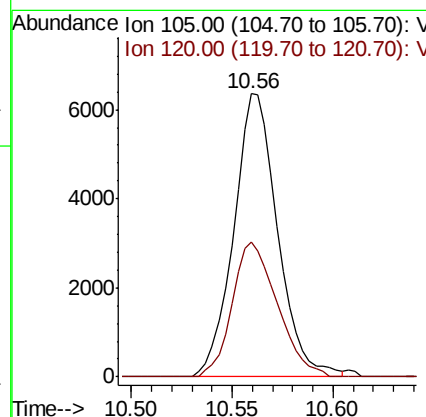
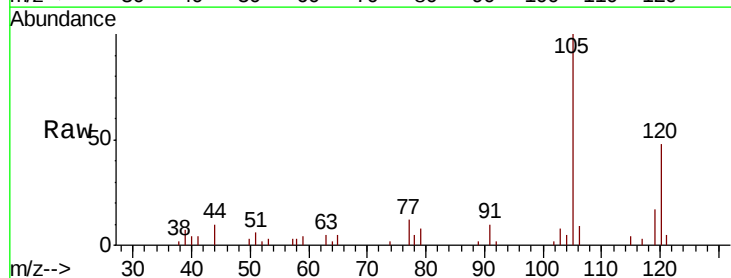
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

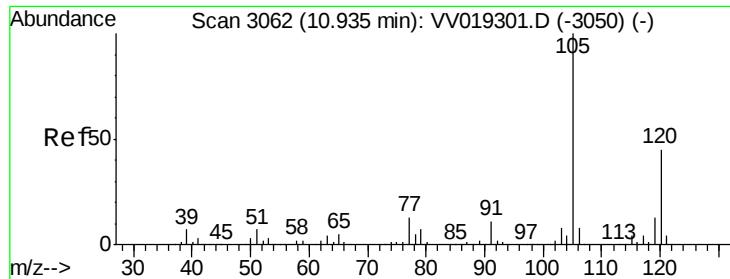
Tot Ion: 75 Resp: 4607
 Ion Ratio Lower Upper
 75 100
 77 35.6 24.8 37.2
 110 36.4 33.4 50.2



#62
 1,3,5-Trimethylbenzene
 Concen: 1.775 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Tgt Ion: 105 Resp: 9691
 Ion Ratio Lower Upper
 105 100
 120 48.9 38.3 57.5

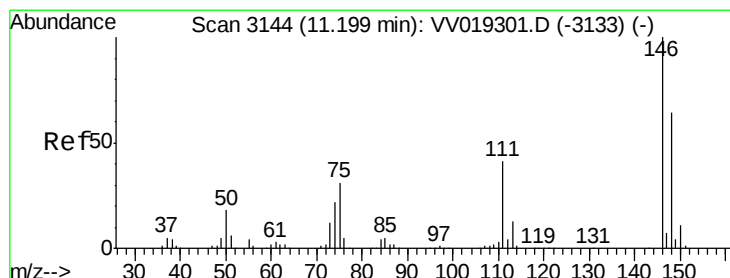
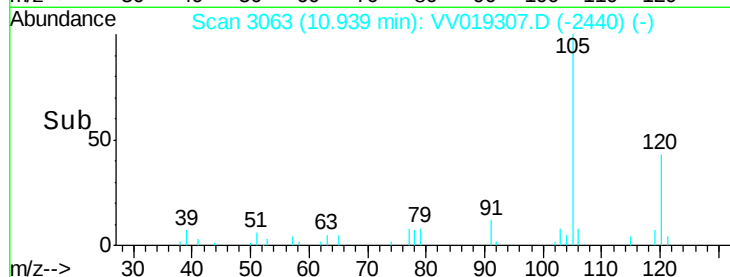
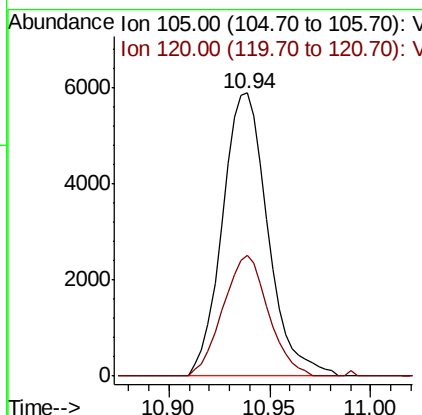
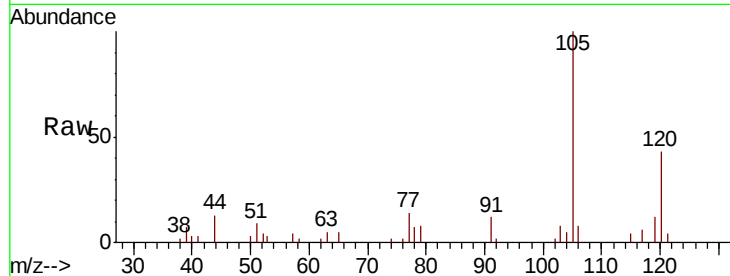




#63
 1,2,4-Trimethylbenzene
 Concen: 1.737 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

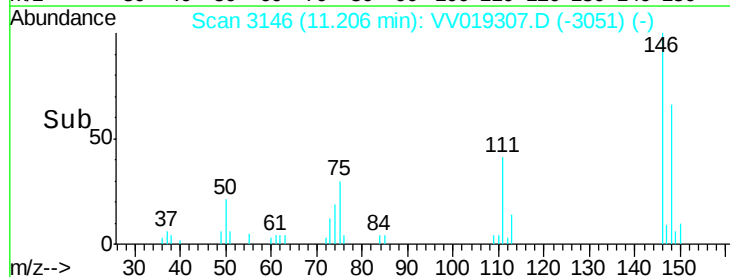
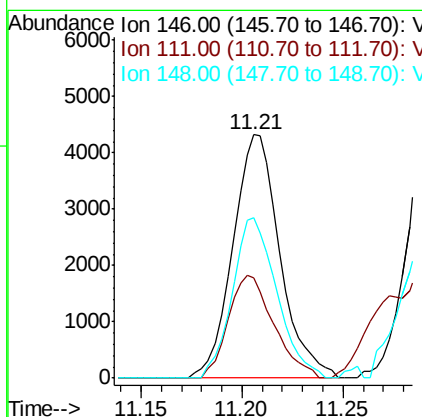
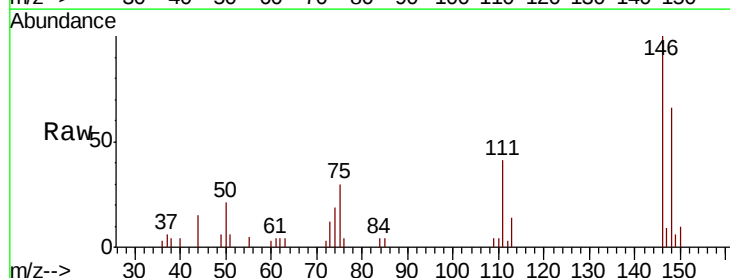
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

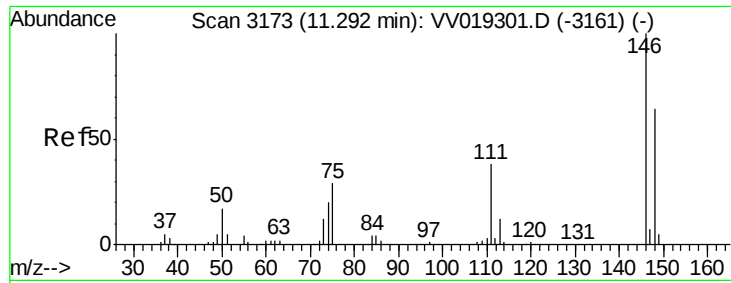
Tot Ion:105 Resp: 9278
 Ion Ratio Lower Upper
 105 100
 120 42.6 35.7 53.5



#64
 1,3-Dichlorobenzene
 Concen: 2.059 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.01 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Tgt Ion:146 Resp: 7058
 Ion Ratio Lower Upper
 146 100
 111 41.1 27.3 50.7
 148 65.8 45.2 84.0





#65

1,4-Dichlorobenzene

Concen: 2.277 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

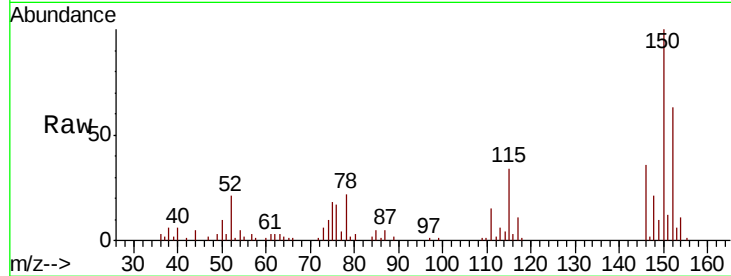
Tot Ion:146 Resp: 8077

Ion Ratio Lower Upper

146 100

111 42.8 25.9 48.1

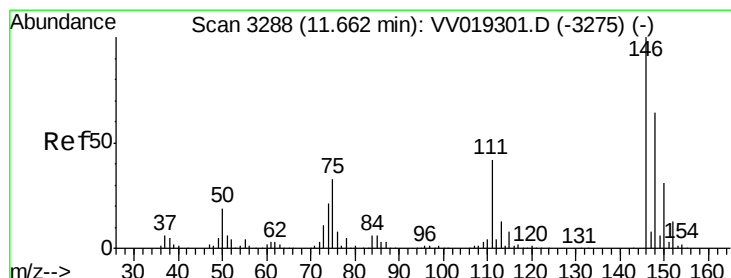
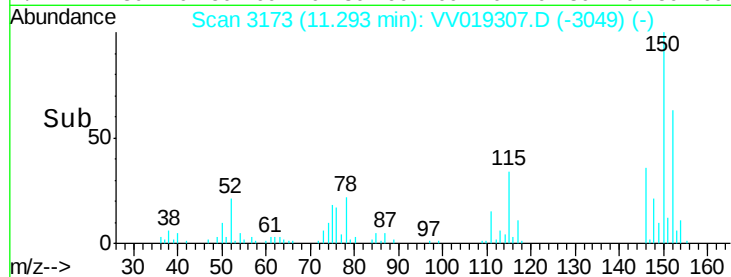
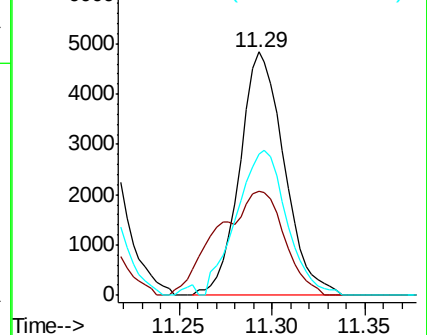
148 57.9 44.9 83.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,2-Dichlorobenzene

Concen: 2.347 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

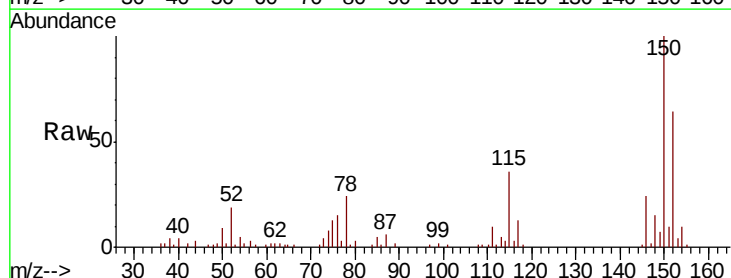
Tgt Ion:146 Resp: 8231

Ion Ratio Lower Upper

146 100

111 44.0 32.6 48.8

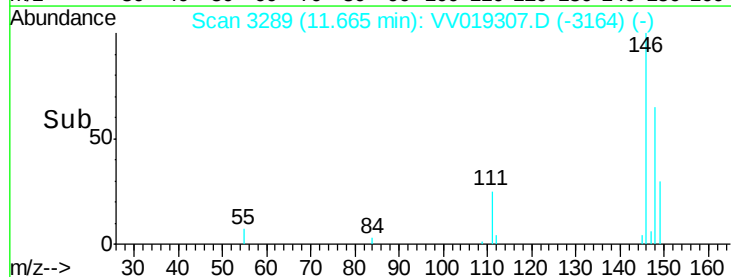
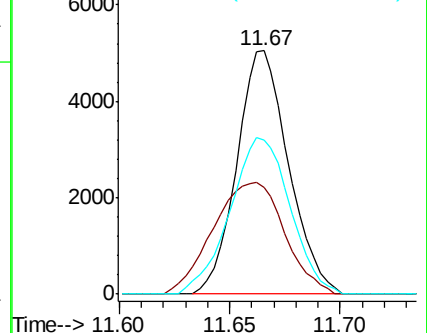
148 63.3 50.1 75.1

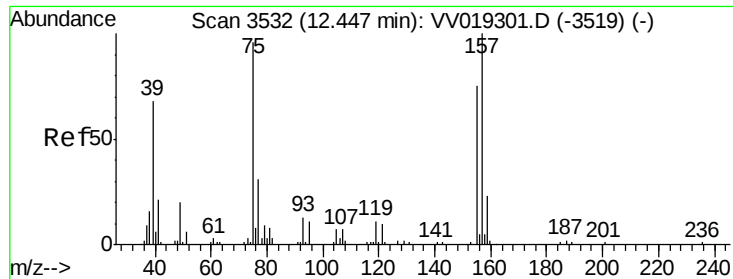


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#68

1,2-Dibromo-3-chloropropane

Concen: 1.992 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-05

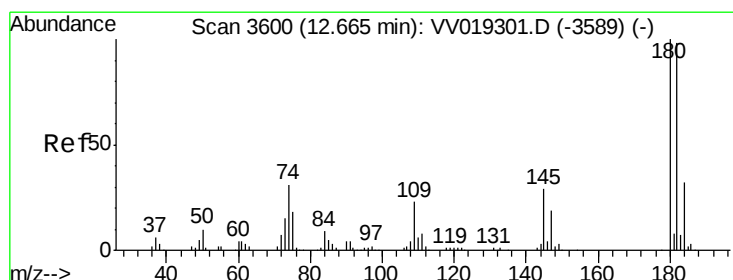
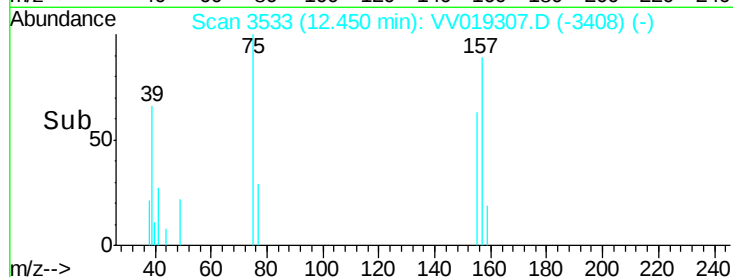
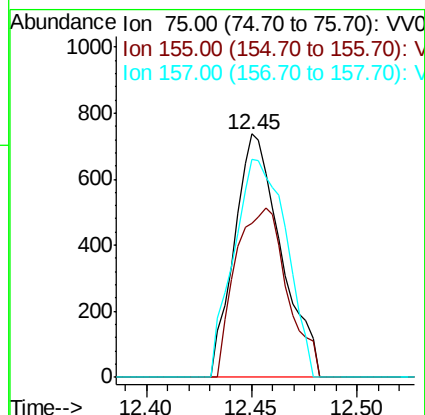
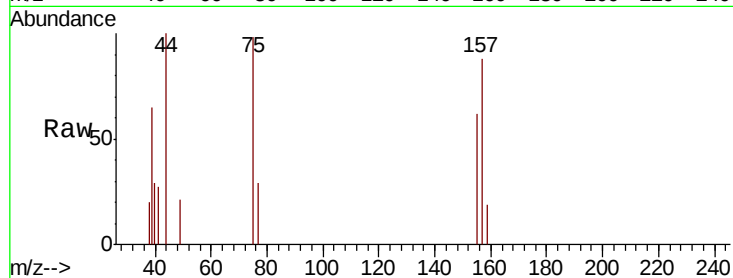
Tot Ion: 75 Resp: 1129

Ion Ratio Lower Upper

75 100

155 63.4 65.8 98.6#

157 89.4 86.3 129.5



#69

1,3,5-Trichlorobenzene

Concen: 1.965 ug/L

RT: 12.67 min Scan# 3602

Delta R.T. 0.01 min

Lab File: VV019307.D

Acq: 09 Nov 2020 17:11

Tgt Ion: 180 Resp: 4836

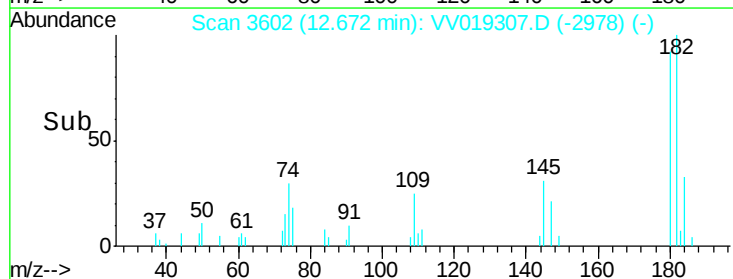
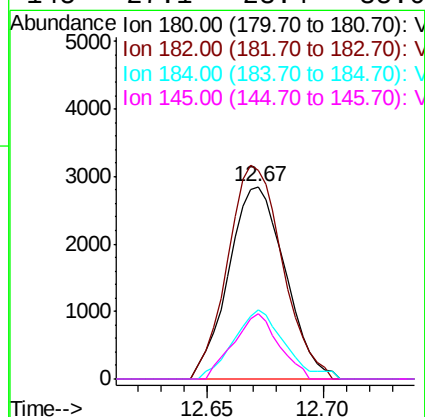
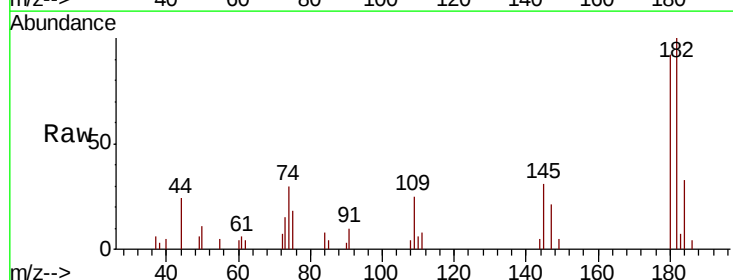
Ion Ratio Lower Upper

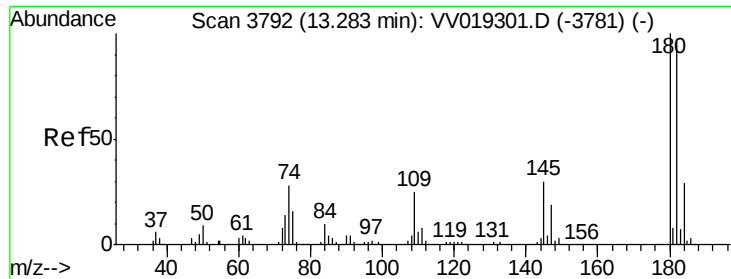
180 100

182 107.4 77.7 116.5

184 31.6 24.9 37.3

145 27.1 23.4 35.0

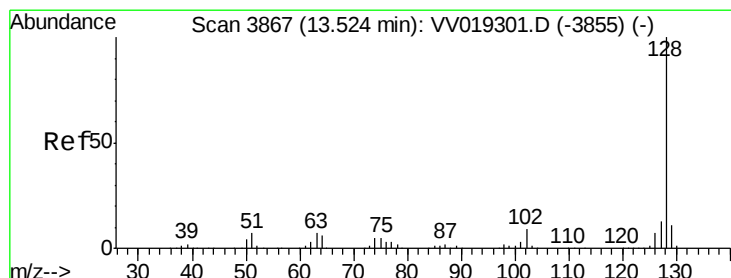
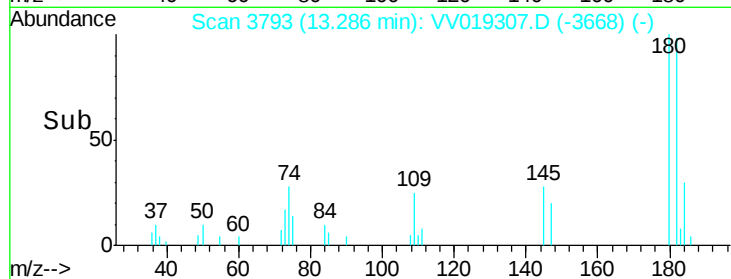
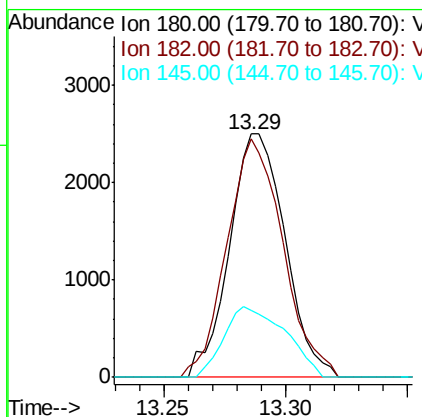
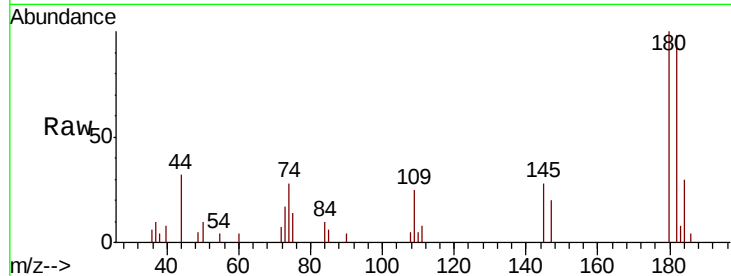




#70
 1,2,4-trichlorobenzene
 Concen: 1.707 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

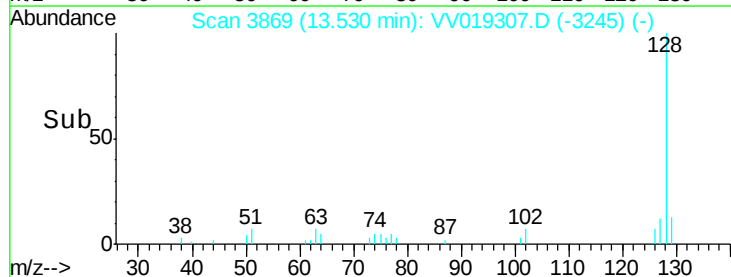
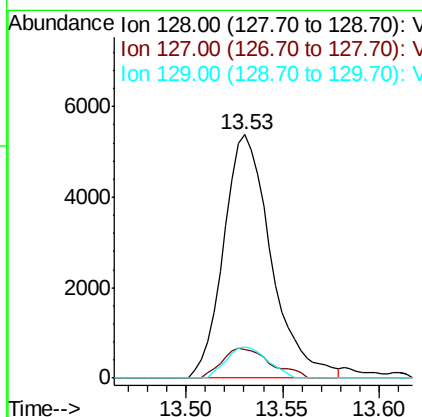
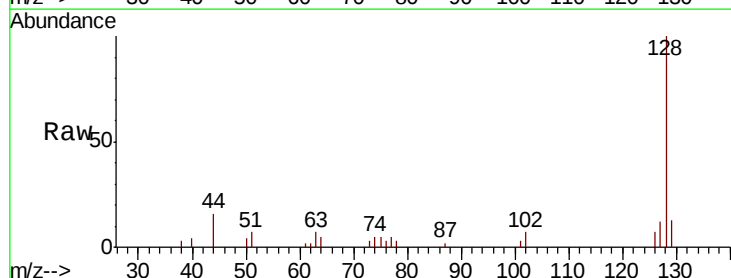
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

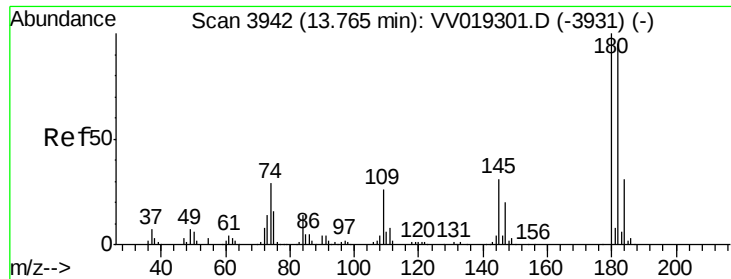
Tot Ion:180 Resp: 3951
 Ion Ratio Lower Upper
 180 100
 182 98.9 76.6 114.8
 145 32.1 23.2 34.8



#71
 Naphthalene
 Concen: 1.410 ug/L
 RT: 13.53 min Scan# 3869
 Delta R.T. 0.01 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Tgt Ion:128 Resp: 9205
 Ion Ratio Lower Upper
 128 100
 127 11.4 10.7 16.1
 129 11.1 8.6 13.0

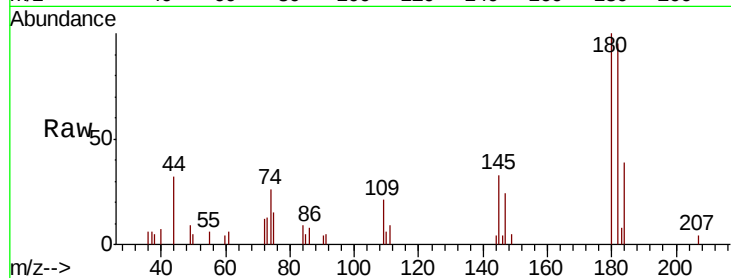




#72
 1,2,3-Trichlorobenzene
 Concen: 1.803 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV019307.D
 Acq: 09 Nov 2020 17:11

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-05

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.4	116.0
145	29.9	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

