

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122920\
 Data File : VV019866.D
 Acq On : 29 Dec 2020 16:29
 Operator : SY/MD
 Sample : L4485-01
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Quant Time: Dec 30 04:49:28 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	287007	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.86	117	272114	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.26	152	127908	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.30	65	99686	4.83	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.60%
7) Chloroethane-d5	1.57	69	83469	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.10	63	153943	3.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.00%
20) 2-Butanone-d5	3.94	46	235974	54.16	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.32%
24) Chloroform-d	4.35	84	173407	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
26) 1,2-Dichloroethane-d4	5.04	65	94536	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.05	84	352116	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.07	67	111586	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.32	98	304226	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
43) trans-1,3-Dichloropropene-	7.63	79	36803	4.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.20%
46) 2-Hexanone-d5	8.10	63	152475	48.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.00%
56) 1,1,2,2-Tetrachloroethane-	10.22	84	66068	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.20%
66) 1,2-Dichlorobenzene-d4	11.63	152	99881	5.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.13	85	6416	0.234	ug/L	99
3) Chloromethane	1.24	50	7476	0.246	ug/L	96
5) Vinyl chloride	1.31	62	7579	0.254	ug/L	87
6) Bromomethane	1.52	94	4512	0.259	ug/L	96
8) Chloroethane	1.58	64	4332	0.238	ug/L	87
9) Trichlorofluoromethane	1.75	101	8155	0.225	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.11	101	5379	0.276	ug/L	92
12) 1,1-Dichloroethene	2.11	96	5656	0.284	ug/L #	1
14) Carbon disulfide	2.29	76	16775	0.244	ug/L #	95
15) Methyl Acetate	2.47	43	1519	0.186	ug/L	97
16) Methylene chloride	2.51	84	7769	0.321	ug/L	94
17) Methyl tert-butyl Ether	2.78	73	11517	0.232	ug/L	97
18) trans-1,2-Dichloroethene	2.76	96	5286	0.235	ug/L	97
19) 1,1-Dichloroethane	3.19	63	10173	0.234	ug/L	98
22) cis-1,2-Dichloroethene	3.92	96	2559	0.110	ug/L	93
23) Bromochloromethane	4.26	128	1999	0.215	ug/L	84
25) Chloroform	4.38	83	18530	0.428	ug/L	99

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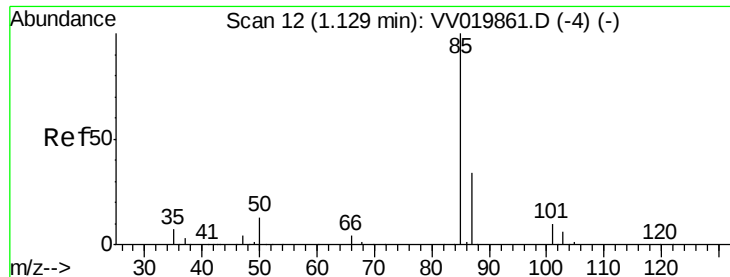
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Quant Time: Dec 30 04:49:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR122920WMA.M
 Quant Title : TRACE VOA SFAM1.0
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 Response via : Initial Calibration

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

27) 1,2-Dichloroethane	5.14	62	6882	0.261	ug/L	97
29) 1,1,1-Trichloroethane	4.61	97	8692	0.234	ug/L	97
30) Cyclohexane	4.68	56	8404	0.225	ug/L #	91
31) Carbon tetrachloride	4.83	117	6406	0.211	ug/L	96
33) Benzene	5.11	78	21178	0.232	ug/L	100
34) Trichloroethene	5.93	95	6126	0.252	ug/L	92
35) Methylcyclohexane	6.14	83	8067	0.222	ug/L	92
37) 1,2-Dichloropropane	6.19	63	4981	0.218	ug/L	100
38) Bromodichloromethane	6.52	83	6667	0.237	ug/L	98
39) cis-1,3-Dichloropropene	7.04	75	7579	0.242	ug/L	99
40) 4-Methyl-2-pentanone	7.24	43	28905	2.240	ug/L #	89
42) Toluene	7.40	91	20465	0.221	ug/L	94
44) trans-1,3-Dichloropropene	7.66	75	7113	0.277	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	3577	0.242	ug/L	91
47) Tetrachloroethene	7.98	164	3849	0.233	ug/L	96
48) 2-Hexanone	8.15	43	37314	4.173	ug/L	95
49) Dibromochloromethane	8.26	129	3577	0.224	ug/L	78
50) 1,2-Dibromoethane	8.36	107	3340	0.249	ug/L #	98
51) Chlorobenzene	8.89	112	13557	0.232	ug/L	95
52) Ethylbenzene	9.02	91	22458	0.219	ug/L	94
53) m,p-xylene	9.15	106	7973	0.213	ug/L	95
54) o-xylene	9.55	106	7471	0.208	ug/L	89
55) Styrene	9.57	104	11150	0.184	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.25	83	4217	0.270	ug/L #	94
59) Bromoform	9.74	173	1556	0.224	ug/L #	91
60) Isopropylbenzene	9.94	105	20442	0.220	ug/L	98
61) 1,2,3-Trichloropropane	10.29	75	3174	0.257	ug/L	91
62) 1,3,5-Trimethylbenzene	10.55	105	16600	0.216	ug/L	100
63) 1,2,4-Trimethylbenzene	10.92	105	15783	0.201	ug/L	97
64) 1,3-Dichlorobenzene	11.19	146	9527	0.233	ug/L	99
65) 1,4-Dichlorobenzene	11.28	146	10545	0.257	ug/L	95
67) 1,2-Dichlorobenzene	11.65	146	9283	0.247	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.45	75	522	0.205	ug/L	88
69) 1,3,5-Trichlorobenzene	12.66	180	6671	0.220	ug/L	97
70) 1,2,4-trichlorobenzene	13.27	180	5369	0.218	ug/L	97
71) Naphthalene	13.52	128	5919	0.159	ug/L #	92
72) 1,2,3-Trichlorobenzene	13.76	180	4296	0.205	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 0.234 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV019866.D

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Instrument :

MSVOA_V

ClientSampleId :

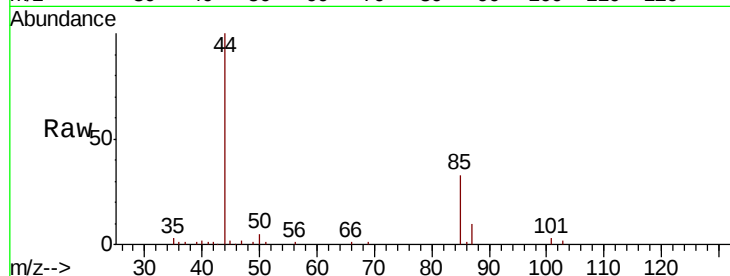
MDL-WATER-01

Tot Ion: 85 Resp: 6416

Ion Ratio Lower Upper

85 100

87 31.5 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV019866.D (-4) (-)

Ion 87.00 (86.70 to 87.70): VV019866.D (-4) (-)

1.13

8000

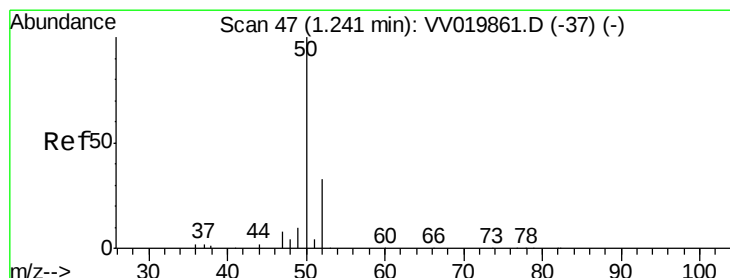
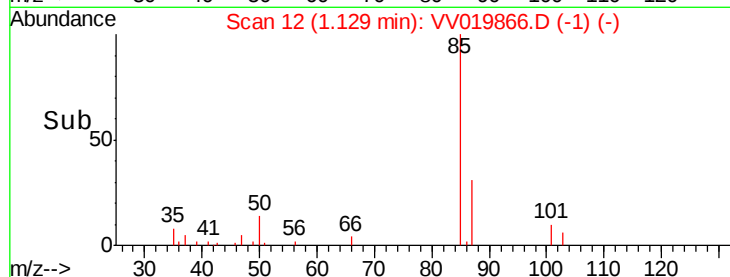
6000

4000

2000

0

Time-->



#3

Chloromethane

Concen: 0.246 ug/L

RT: 1.24 min Scan# 46

Delta R.T. -0.00 min

Lab File: VV019866.D

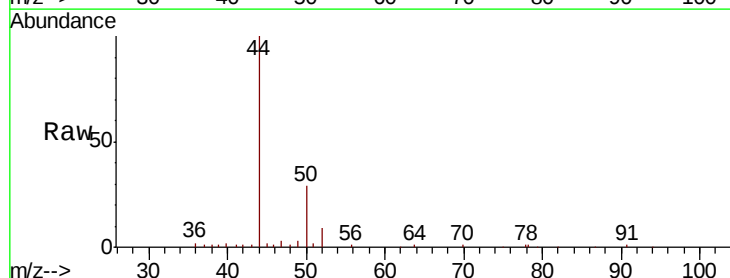
Acq: 29 Dec 2020 16:29

Tgt Ion: 50 Resp: 7476

Ion Ratio Lower Upper

50 100

52 30.8 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV019866.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV019866.D (-1) (-)

1.24

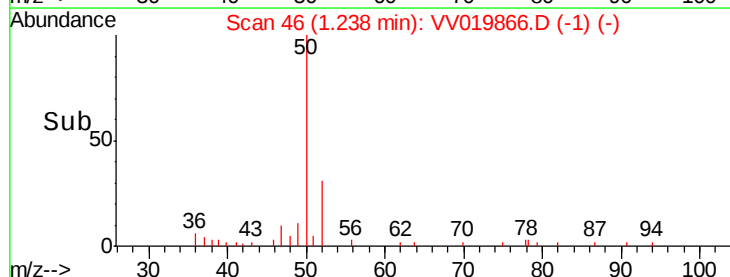
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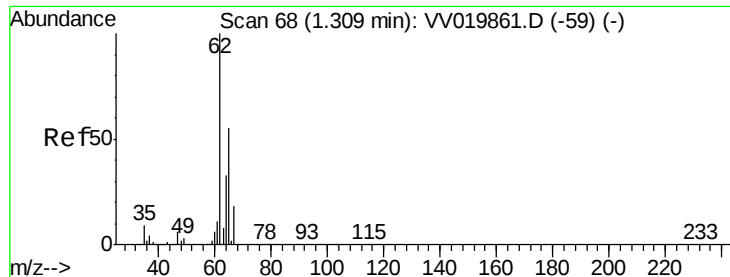
4000

2000

0

Time-->





#5

Vinyl chloride

Concen: 0.254 ug/L

RT: 1.31 min Scan# 68

Delta R.T. -0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampled :

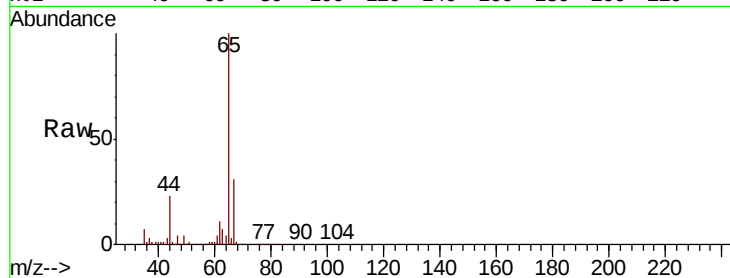
MDL-WATER-01

Tot Ion: 62 Resp: 7579

Ion Ratio Lower Upper

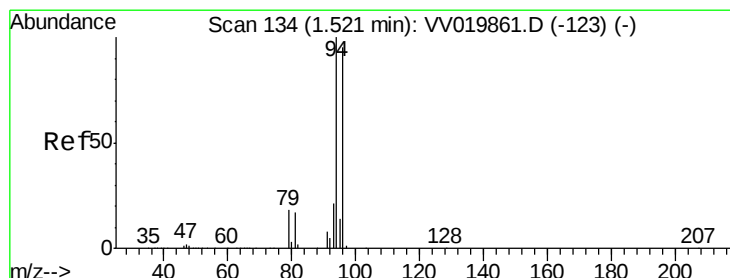
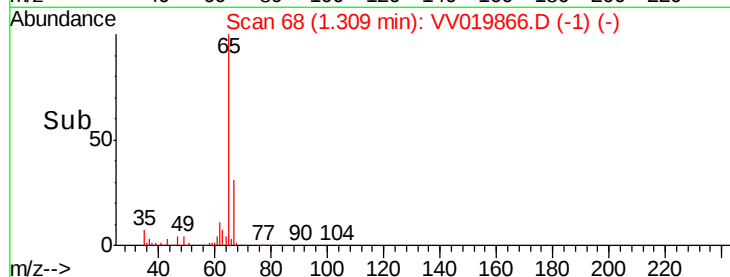
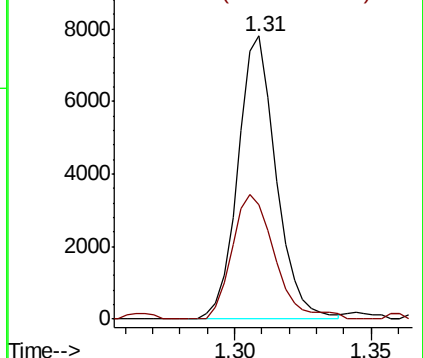
62 100

64 40.4 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: 0.259 ug/L

RT: 1.52 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV019866.D

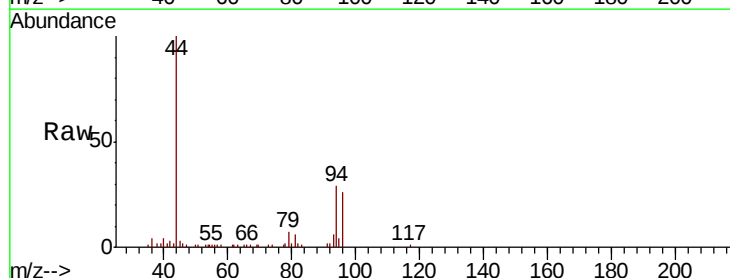
Acq: 29 Dec 2020 16:29

Tgt Ion: 94 Resp: 4512

Ion Ratio Lower Upper

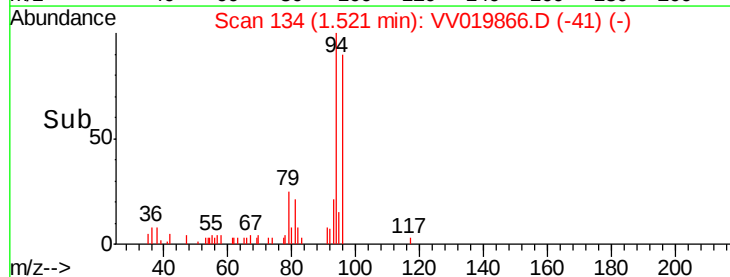
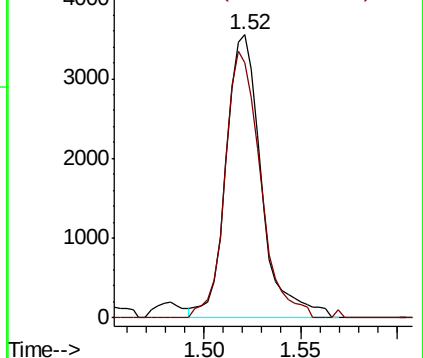
94 100

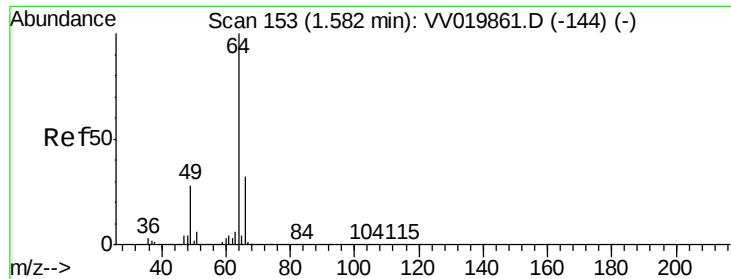
96 90.2 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 0.238 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

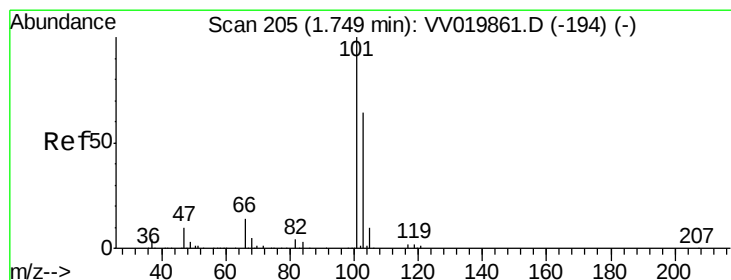
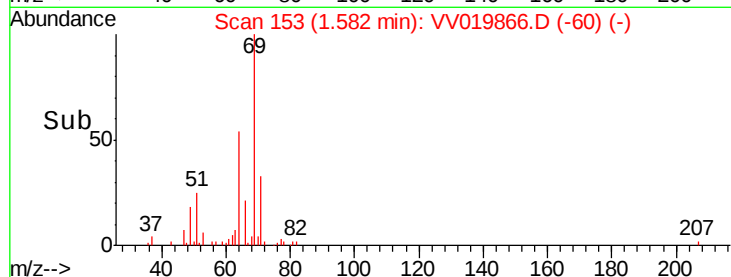
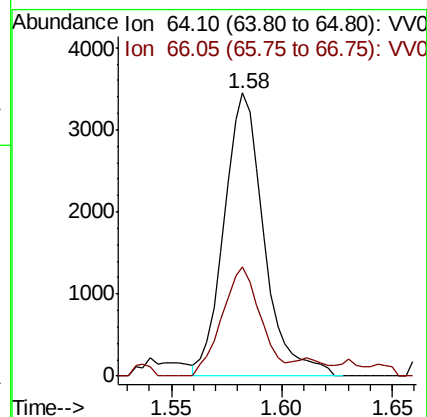
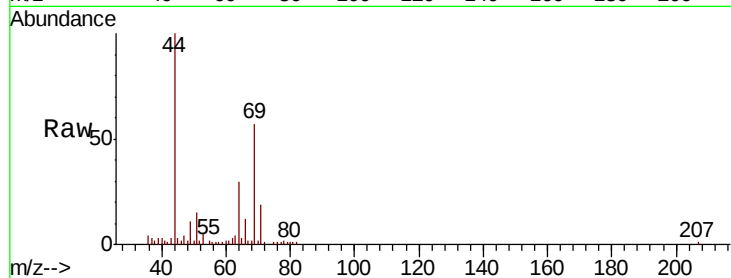
MDL-WATER-01

Tot Ion: 64 Resp: 4332

Ion Ratio Lower Upper

64 100

66 38.4 22.0 40.8



#9

Trichlorofluoromethane

Concen: 0.225 ug/L

RT: 1.75 min Scan# 205

Delta R.T. -0.00 min

Lab File: VV019866.D

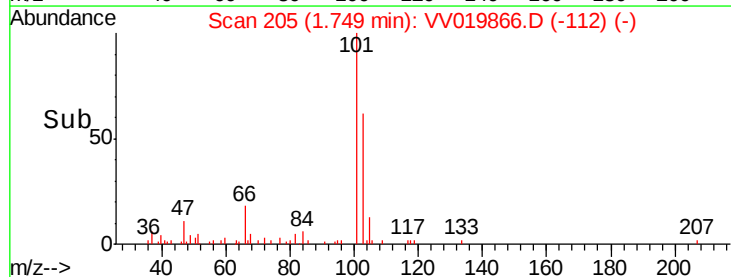
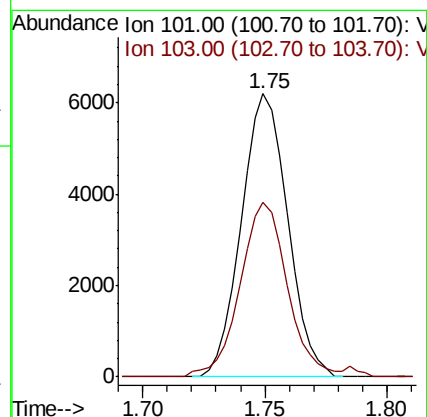
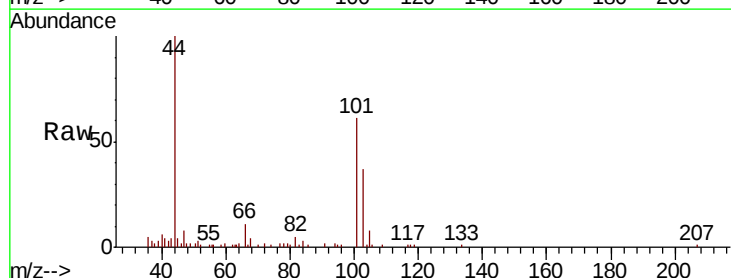
Acq: 29 Dec 2020 16:29

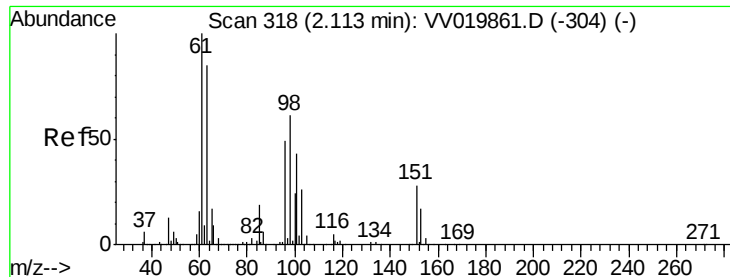
Tgt Ion: 101 Resp: 8155

Ion Ratio Lower Upper

101 100

103 62.5 51.8 77.8





#10

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

Concen: 0.276 ug/L

RT: 2.11 min Scan# 318

Delta R.T. -0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

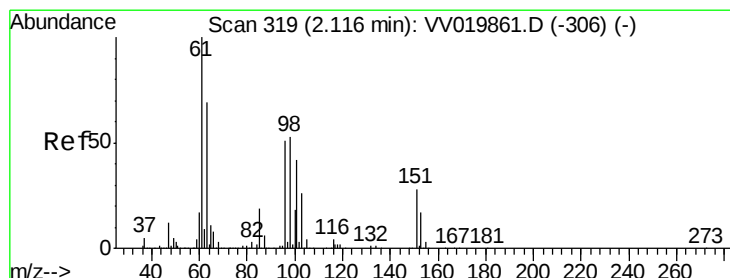
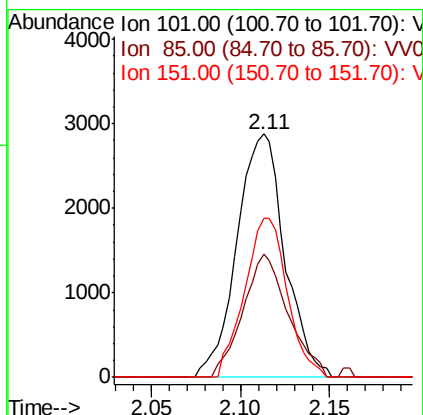
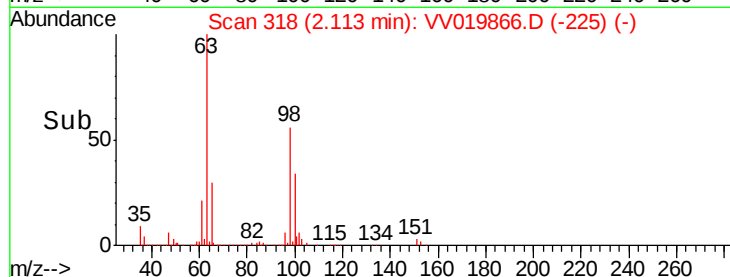
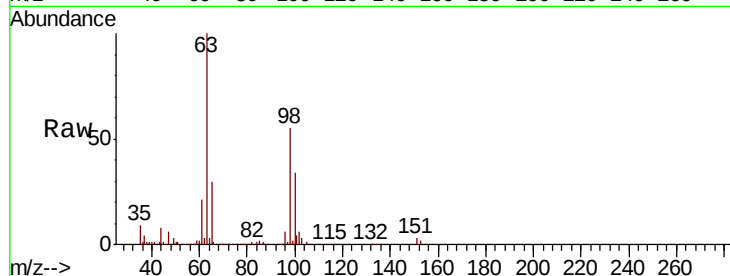
Tot Ion:101 Resp: 5379

Ion Ratio Lower Upper

101 100

85 48.1 36.4 54.6

151 58.5 54.1 81.1



#12

1,1-Dichloroethene

Concen: 0.284 ug/L

RT: 2.11 min Scan# 318

Delta R.T. -0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

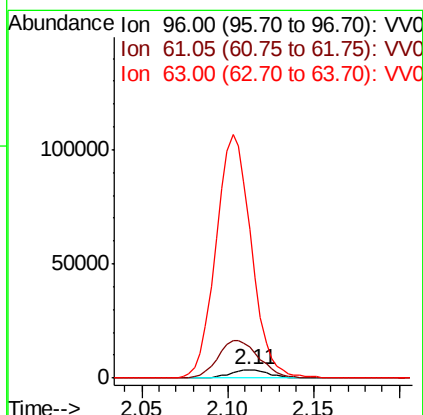
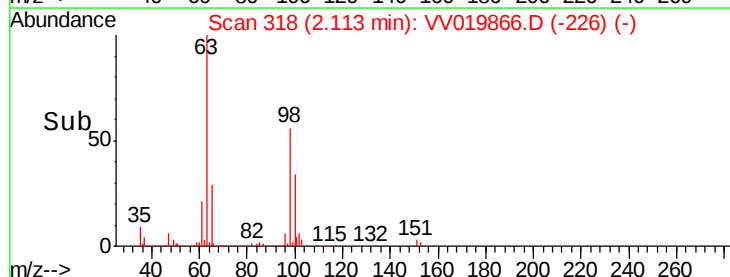
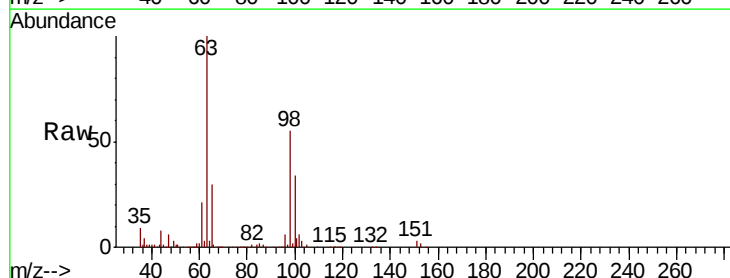
Tgt Ion: 96 Resp: 5656

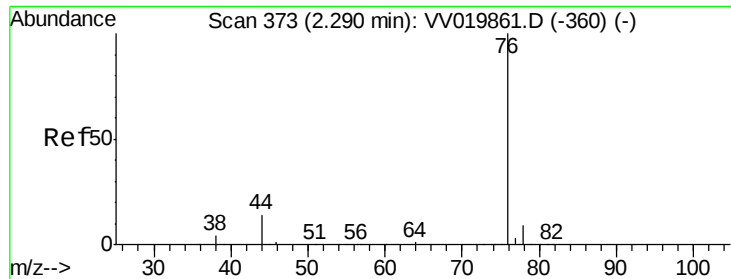
Ion Ratio Lower Upper

96 100

61 377.4 131.5 244.1#

63 1808.0 95.2 176.8#

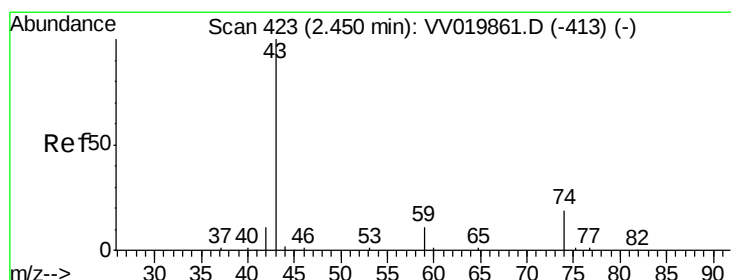
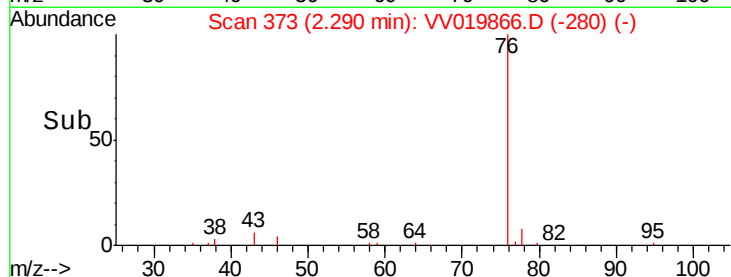
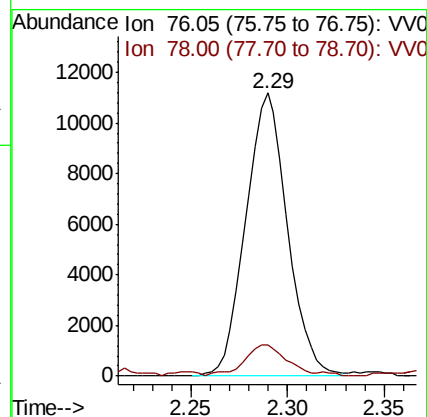
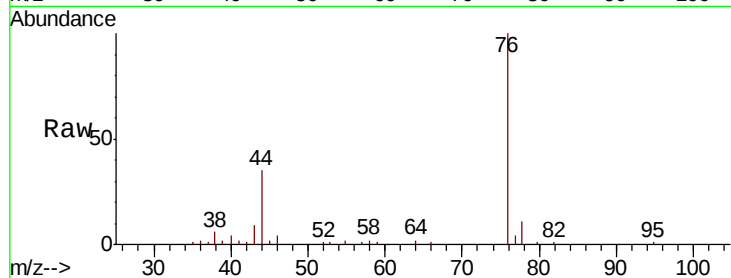




#14
Carbon disulfide
Concen: 0.244 ug/L
RT: 2.29 min Scan# 373
Delta R.T. -0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

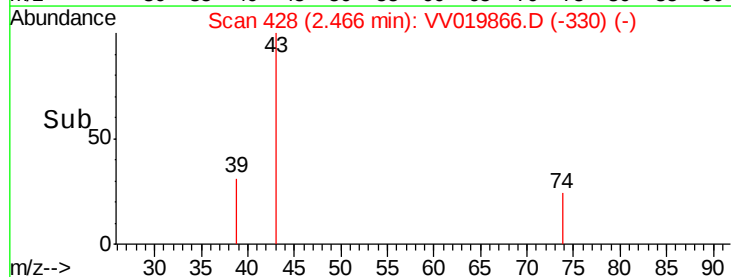
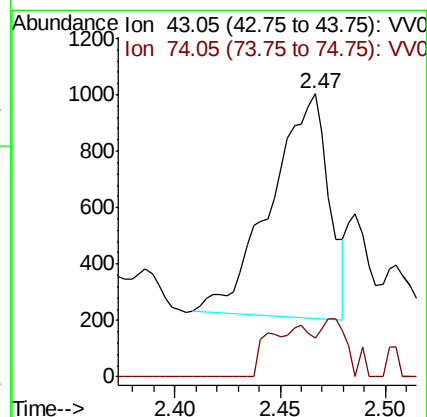
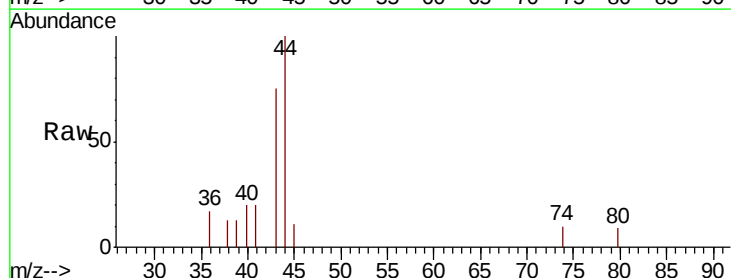
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

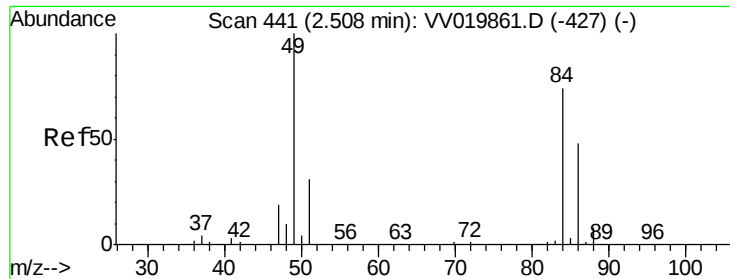
Tot Ion: 76 Resp: 16775
Ion Ratio Lower Upper
76 100
78 10.9 7.2 10.8#



#15
Methyl Acetate
Concen: 0.186 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.02 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion: 43 Resp: 1519
Ion Ratio Lower Upper
43 100
74 12.2 10.6 16.0

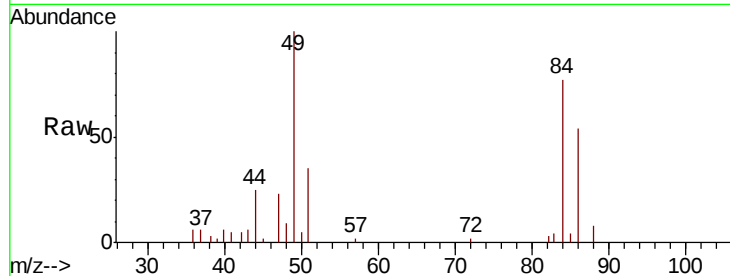




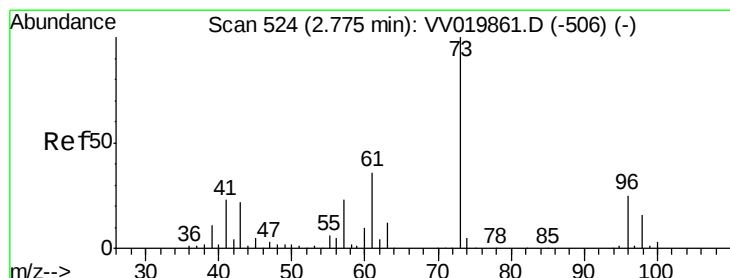
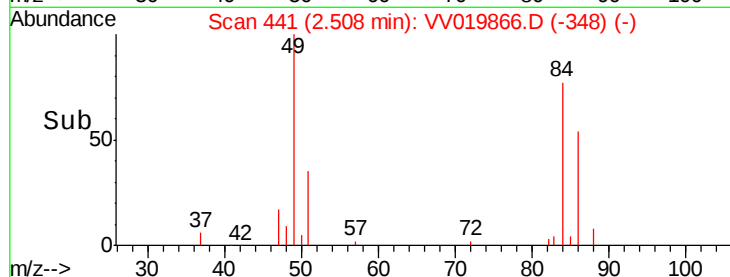
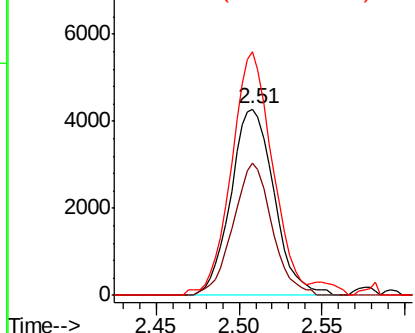
#16
Methylene chloride
Concen: 0.321 ug/L
RT: 2.51 min Scan# 441
Delta R.T. -0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion: 84 Resp: 7769
Ion Ratio Lower Upper
84 100
86 71.1 42.8 79.4
49 130.7 93.9 174.3

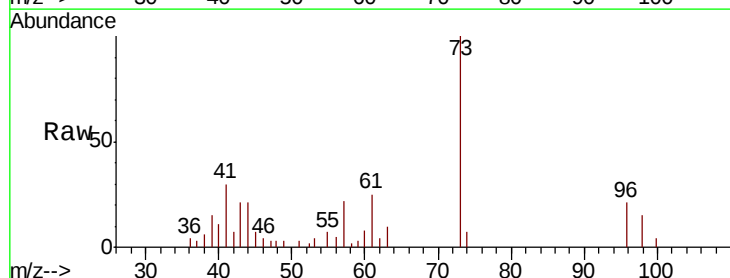


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

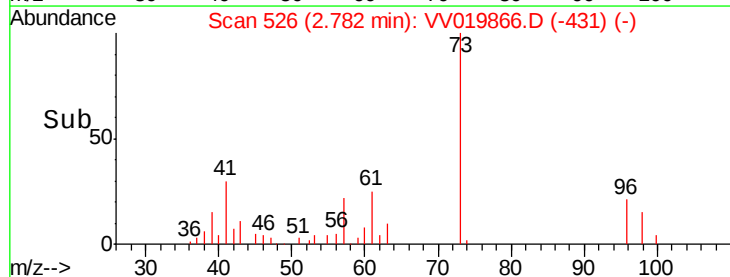
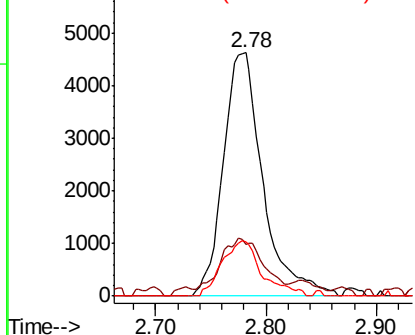


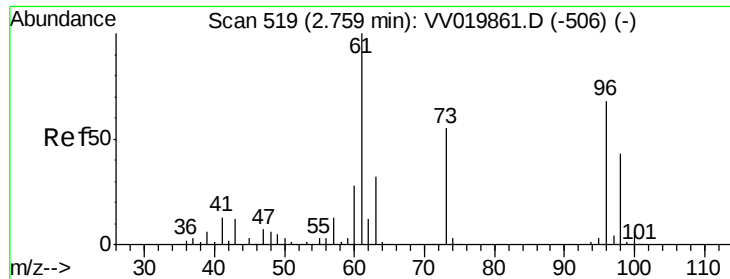
#17
Methyl tert-butyl Ether
Concen: 0.232 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.01 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion: 73 Resp: 11517
Ion Ratio Lower Upper
73 100
43 23.9 17.0 25.6
57 22.8 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

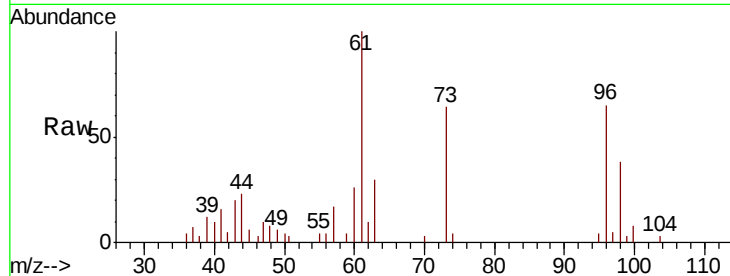




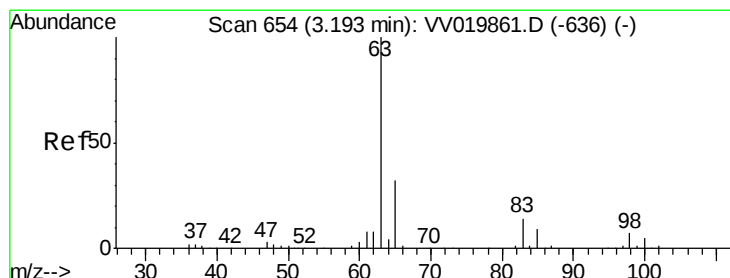
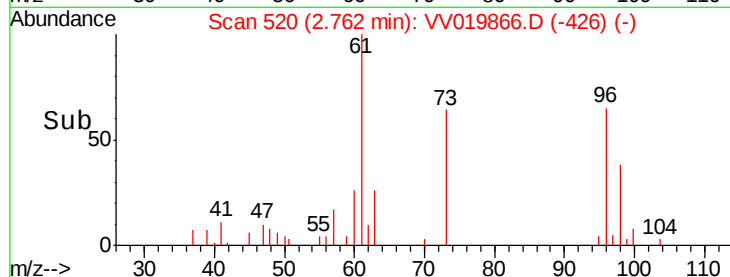
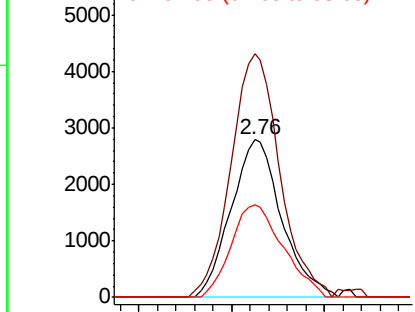
#18
trans-1,2-Dichloroethene
Concen: 0.235 ug/L
RT: 2.76 min Scan# 520
Delta R.T. 0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion: 96 Resp: 5286
Ion Ratio Lower Upper
96 100
61 154.5 106.3 197.3
98 59.1 44.7 82.9

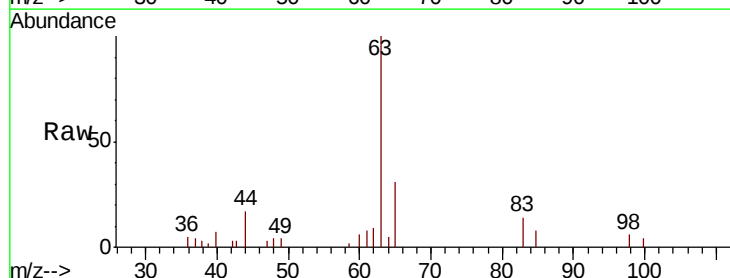


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

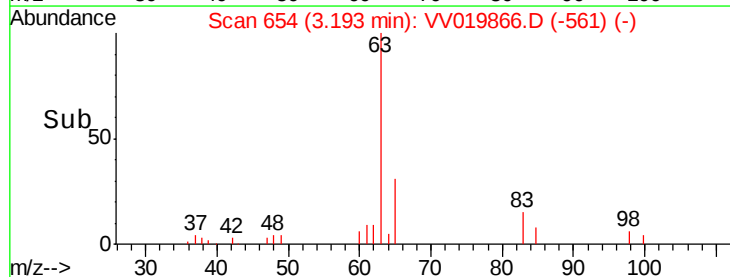
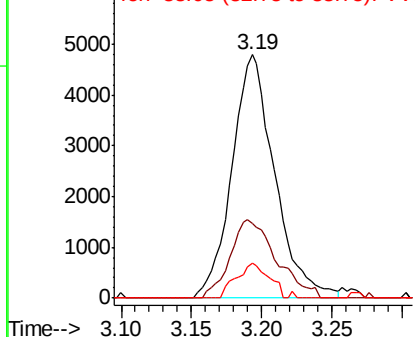


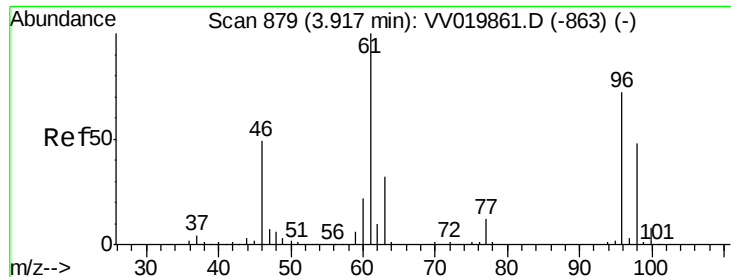
#19
1,1-Dichloroethane
Concen: 0.234 ug/L
RT: 3.19 min Scan# 654
Delta R.T. -0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion: 63 Resp: 10173
Ion Ratio Lower Upper
63 100
65 30.6 21.8 40.6
83 14.3 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



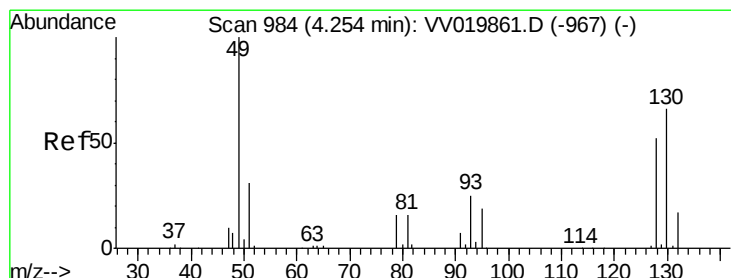
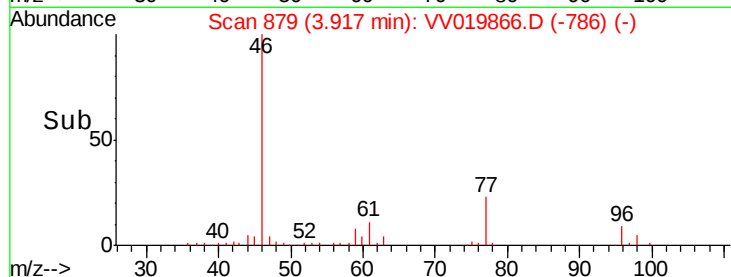
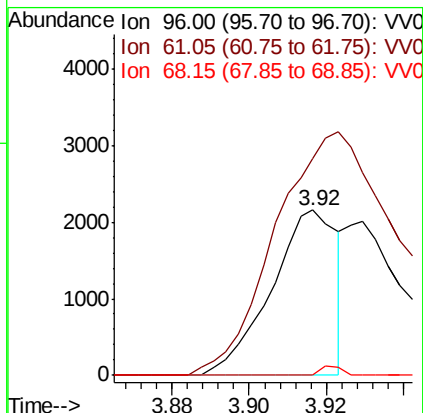
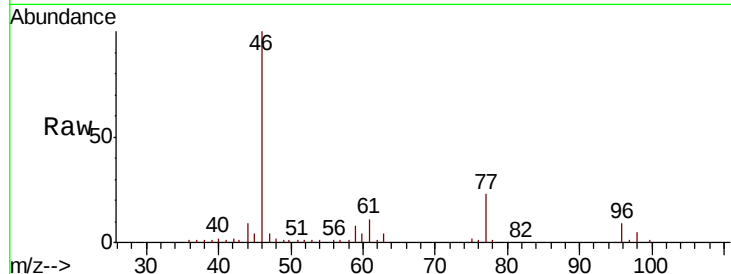


#22

cis-1,2-Dichloroethene
Concen: 0.110 ug/L
RT: 3.92 min Scan# 879
Delta R.T. -0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

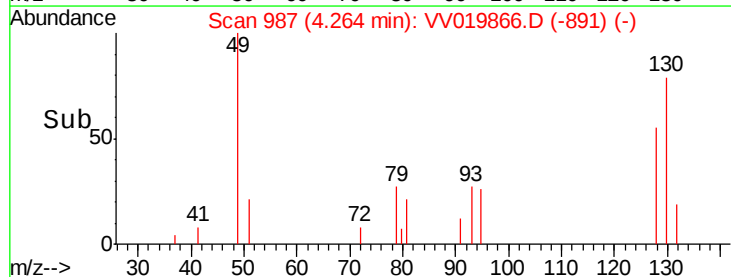
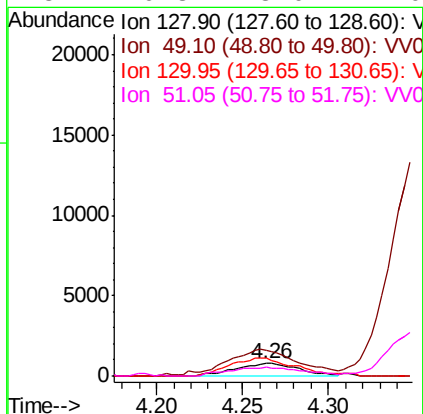
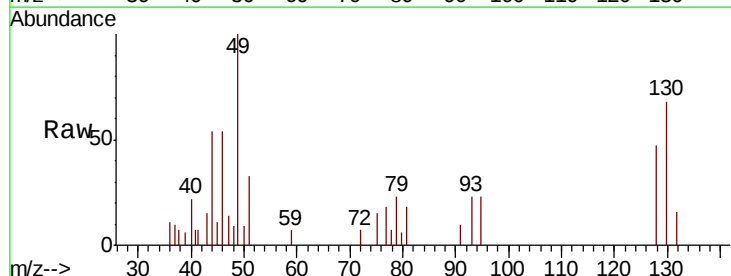
Tot Ion: 96 Resp: 2559
Ion Ratio Lower Upper
96 100
61 131.1 98.1 182.3
68 0.0 0.0 0.0

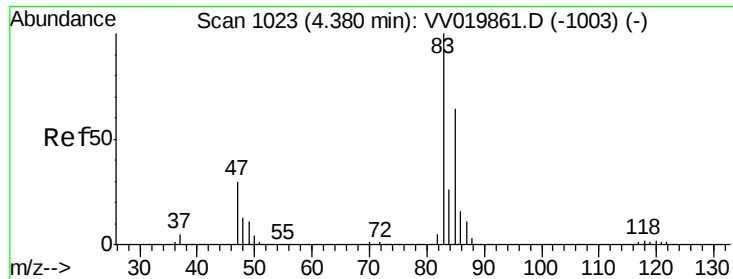


#23

Bromochloromethane
Concen: 0.215 ug/L
RT: 4.26 min Scan# 987
Delta R.T. 0.01 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion: 128 Resp: 1999
Ion Ratio Lower Upper
128 100
49 212.6 132.6 246.2
130 144.1 86.4 160.4
51 70.3 48.0 72.0

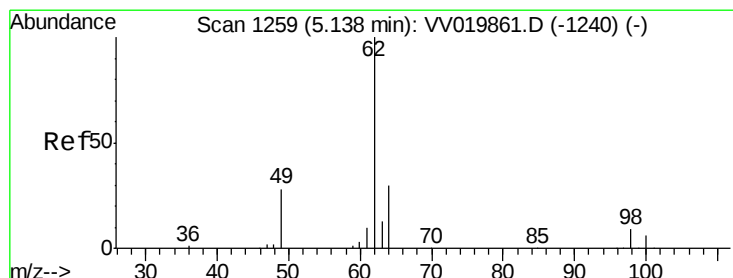
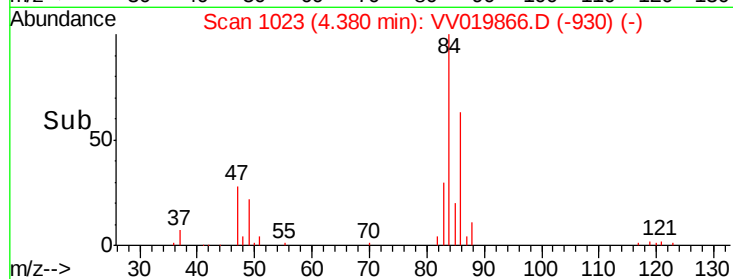
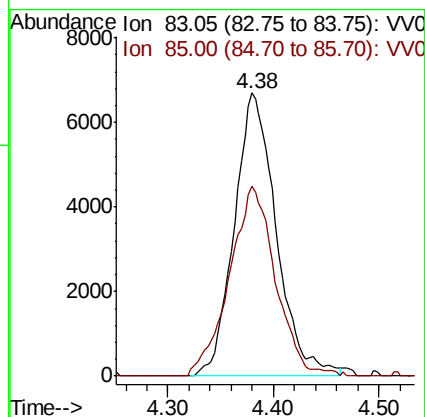
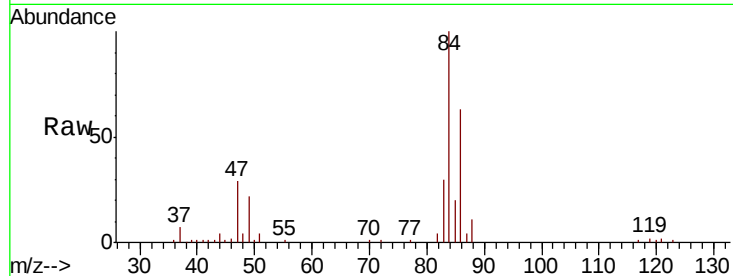




#25
Chloroform
Concen: 0.428 ug/L
RT: 4.38 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

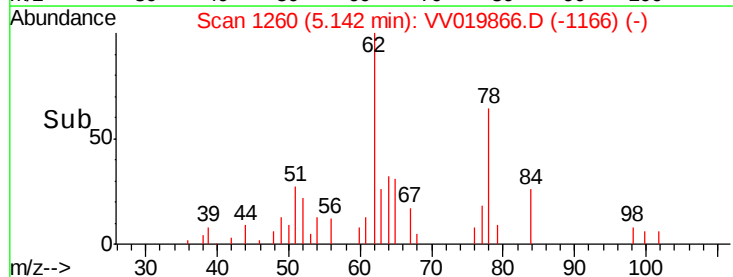
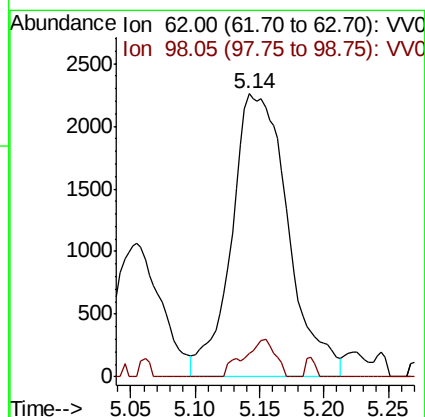
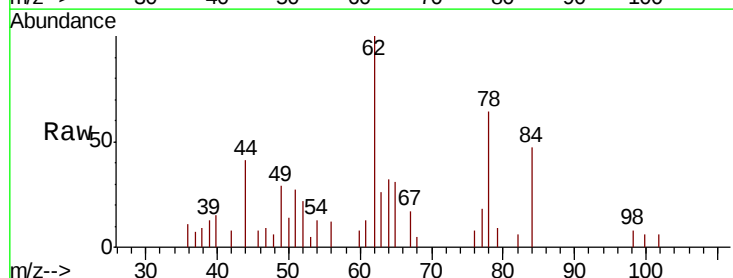
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

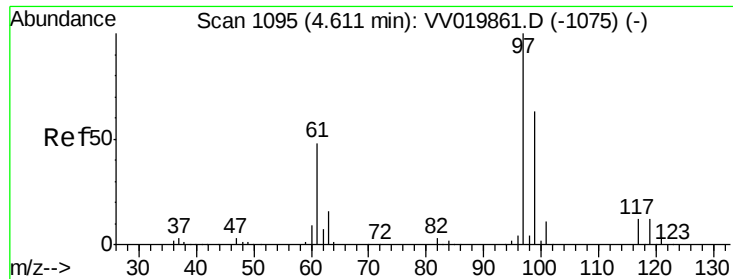
Tot Ion: 83 Resp: 18530
Ion Ratio Lower Upper
83 100
85 66.9 46.4 86.2



#27
1,2-Dichloroethane
Concen: 0.261 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion: 62 Resp: 6882
Ion Ratio Lower Upper
62 100
98 8.2 7.6 11.4

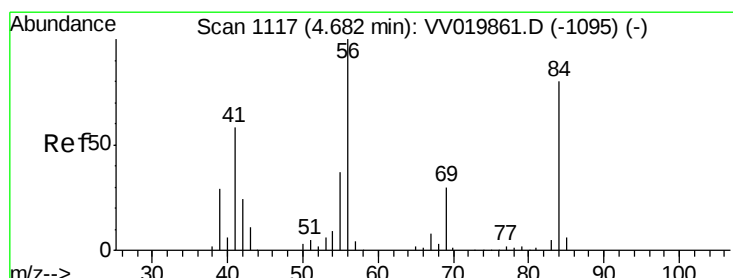
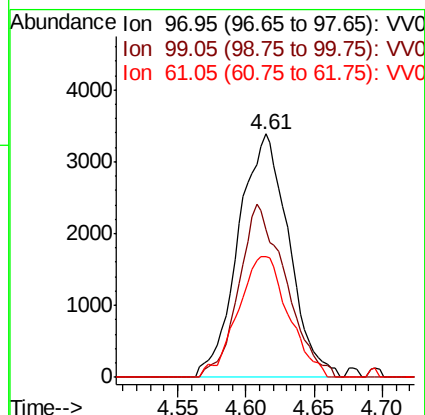
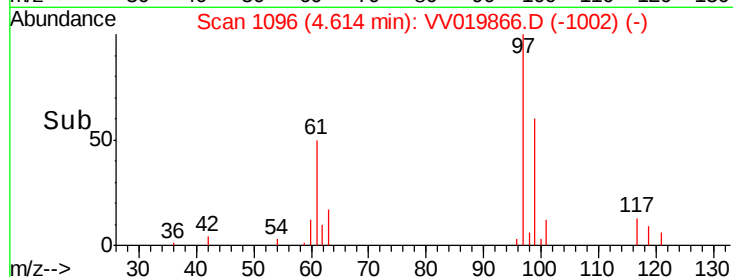
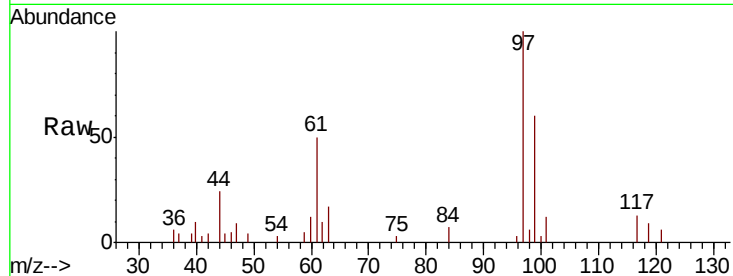




#29
 1,1,1-Trichloroethane
 Concen: 0.234 ug/L
 RT: 4.61 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

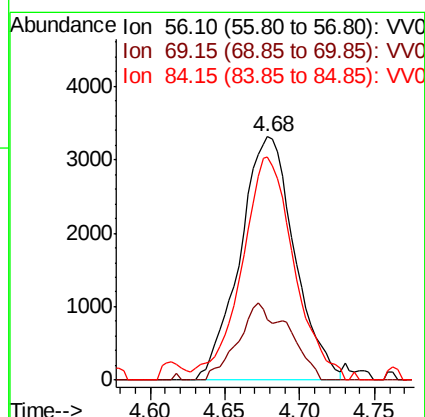
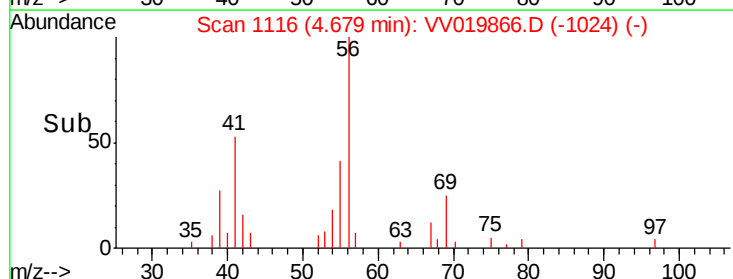
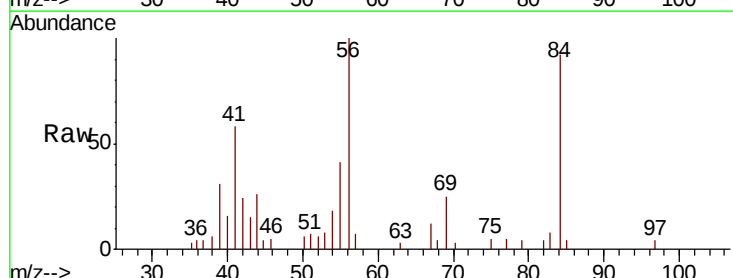
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

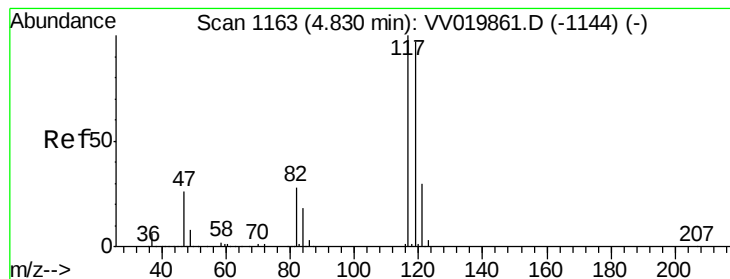
Tot Ion: 97 Resp: 8692
 Ion Ratio Lower Upper
 97 100
 99 66.1 51.1 76.7
 61 49.7 38.6 57.8



#30
 Cyclohexane
 Concen: 0.225 ug/L
 RT: 4.68 min Scan# 1116
 Delta R.T. -0.00 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Tgt Ion: 56 Resp: 8404
 Ion Ratio Lower Upper
 56 100
 69 18.8 24.1 36.1#
 84 87.8 66.8 100.2





#31

Carbon tetrachloride

Concen: 0.211 ug/L

RT: 4.83 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

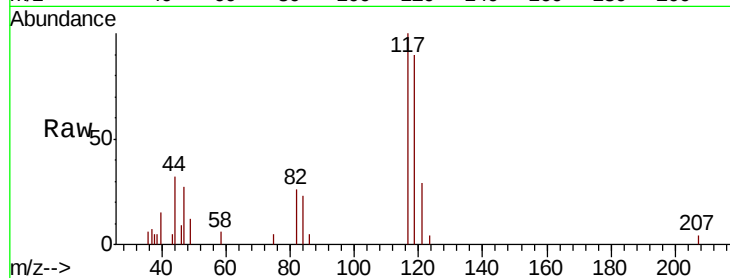
MDL-WATER-01

Tot Ion:117 Resp: 6406

Ion Ratio Lower Upper

117 100

119 99.2 76.0 114.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

3000

2500

2000

1500

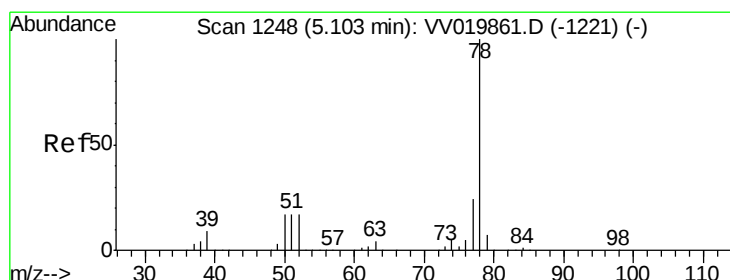
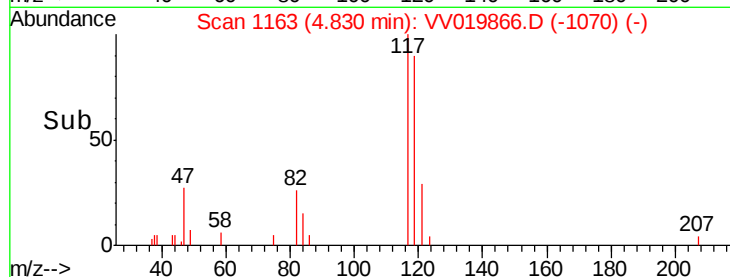
1000

500

0

4.75 4.80 4.85 4.90

Time-->



#33

Benzene

Concen: 0.232 ug/L

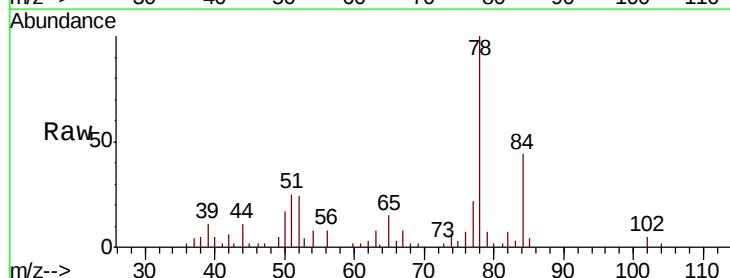
RT: 5.11 min Scan# 1250

Delta R.T. 0.01 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Tgt Ion: 78 Resp: 21178



Abundance Ion 78.10 (77.80 to 78.80): VV0

8000

6000

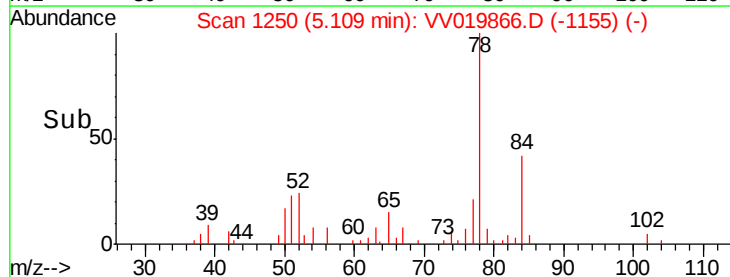
4000

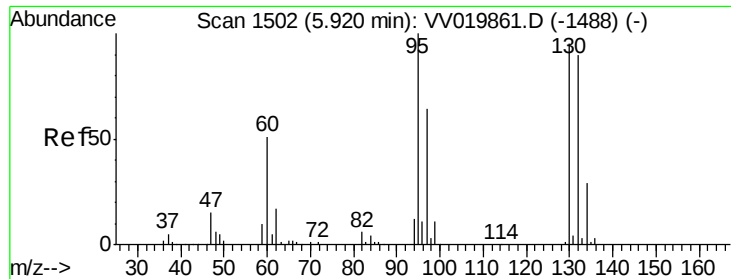
2000

0

5.00 5.10 5.20

Time-->

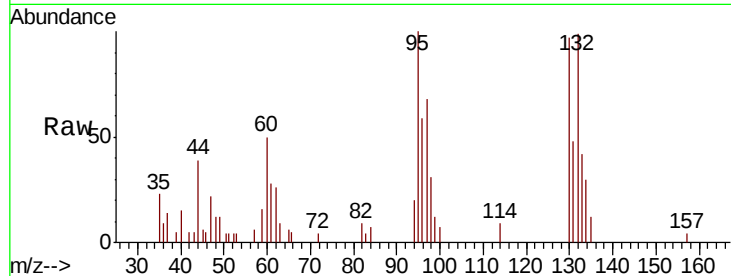




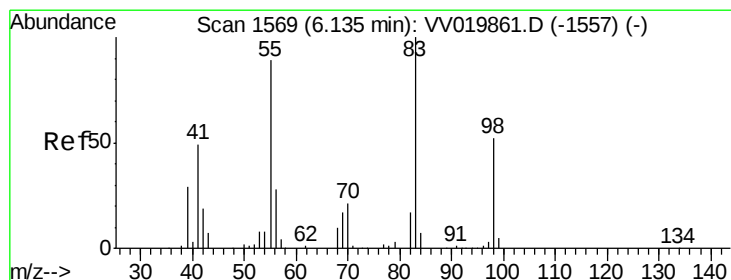
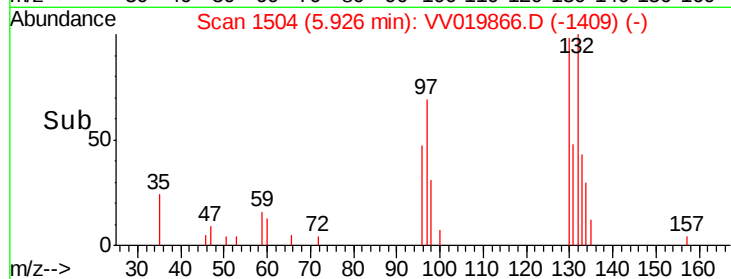
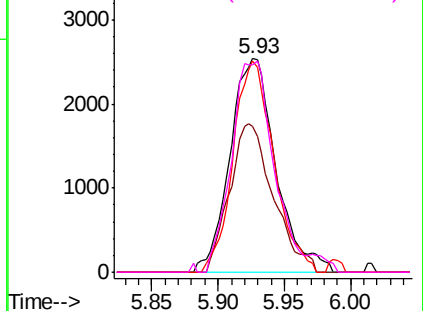
#34
 Trichloroethene
 Concen: 0.252 ug/L
 RT: 5.93 min Scan# 1504
 Delta R.T. 0.01 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion:	95	Resp:	6126
Ion	Ratio	Lower	Upper
95	100		
97	68.3	44.1	81.9
132	99.0	61.2	113.8
130	96.9	65.1	120.9

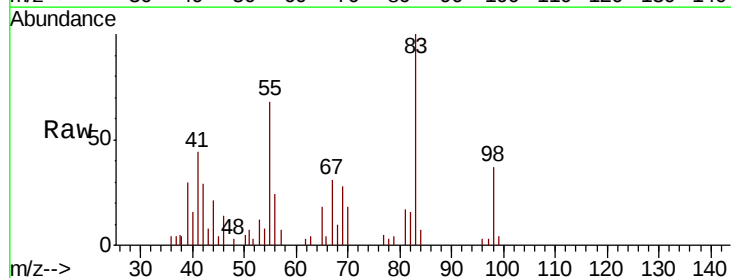


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

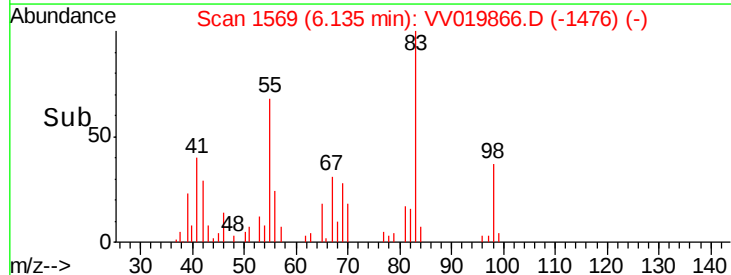
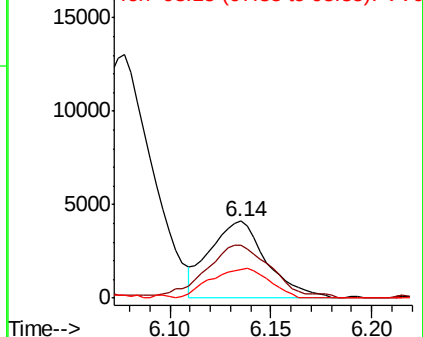


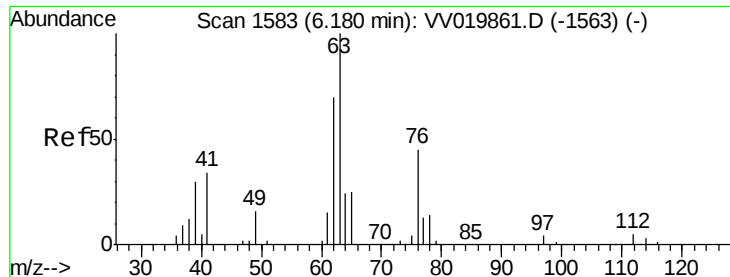
#35
 Methylcyclohexane
 Concen: 0.222 ug/L
 RT: 6.14 min Scan# 1569
 Delta R.T. -0.00 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Tgt Ion:	83	Resp:	8067
Ion	Ratio	Lower	Upper
83	100		
55	79.4	67.5	101.3
98	39.6	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

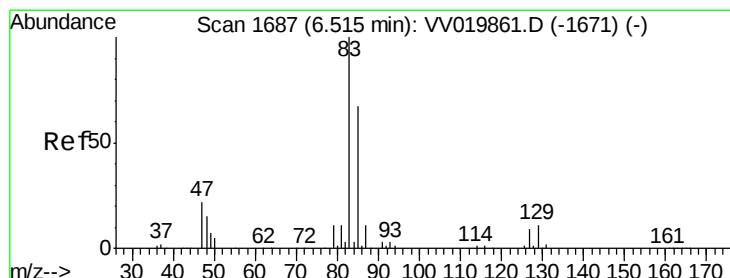
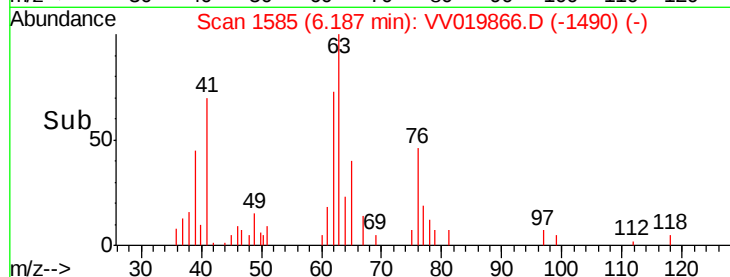
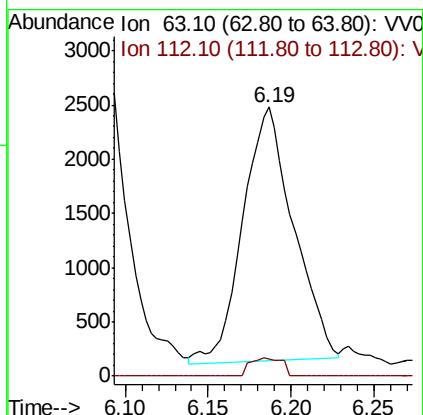
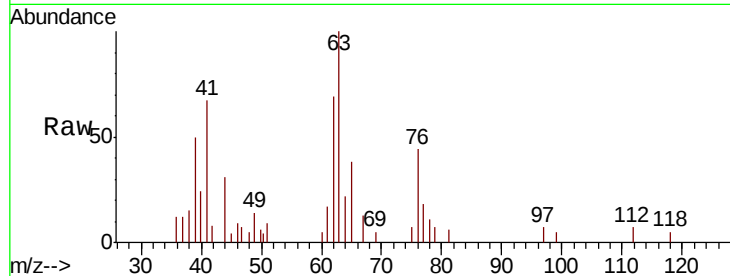




#37
 1,2-Dichloropropane
 Concen: 0.218 ug/L
 RT: 6.19 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

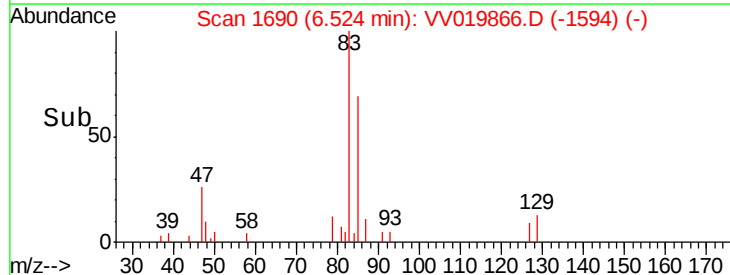
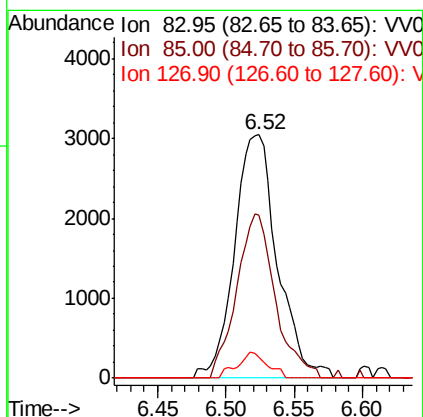
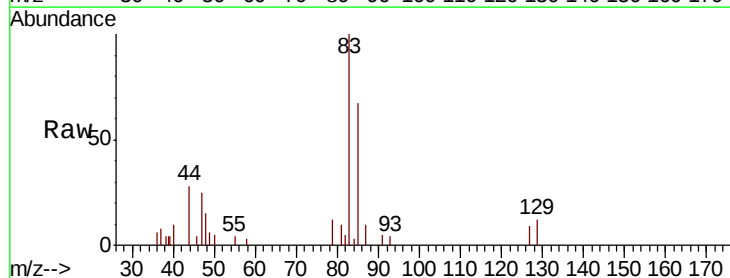
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

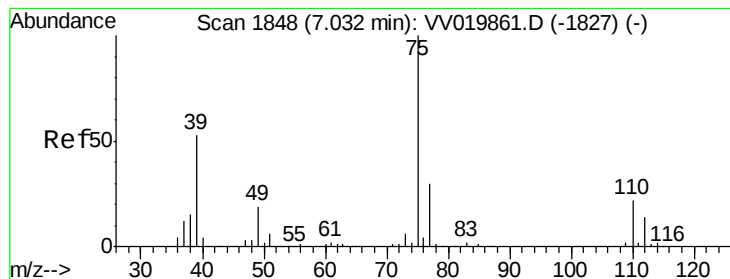
Tot Ion: 63 Resp: 4981
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.6 5.4



#38
 Bromodichloromethane
 Concen: 0.237 ug/L
 RT: 6.52 min Scan# 1690
 Delta R.T. 0.01 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Tgt Ion: 83 Resp: 6667
 Ion Ratio Lower Upper
 83 100
 85 66.8 45.9 85.3
 127 8.6 6.2 9.2



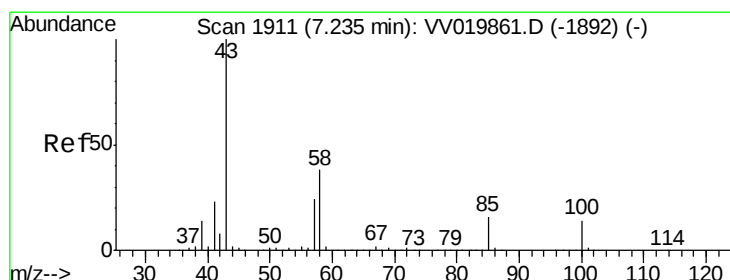
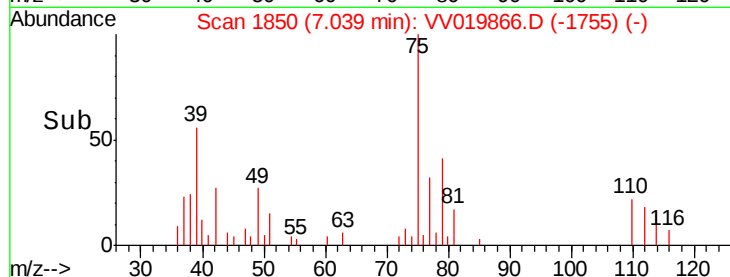
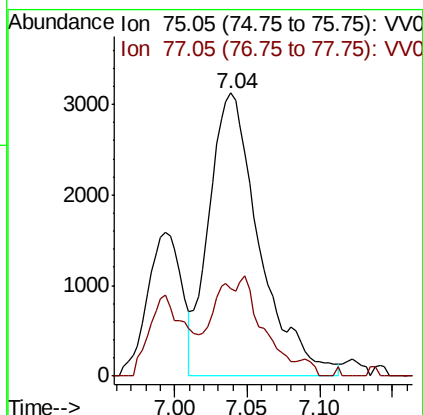
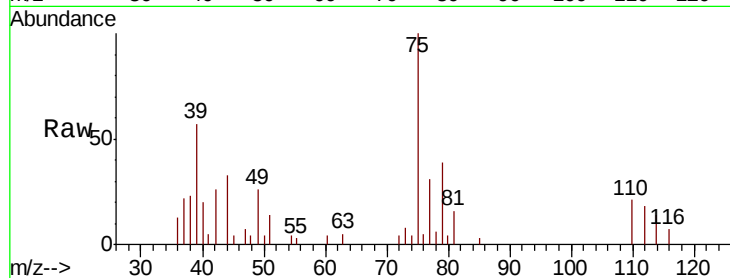


#39

cis-1,3-Dichloropropene
 Concen: 0.242 ug/L
 RT: 7.04 min Scan# 1850
 Delta R.T. 0.01 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

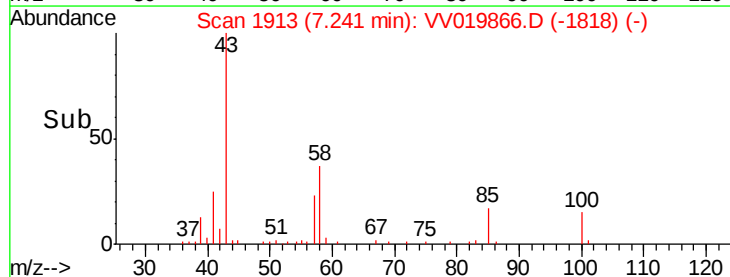
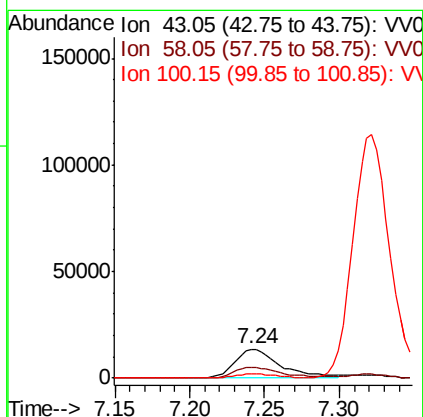
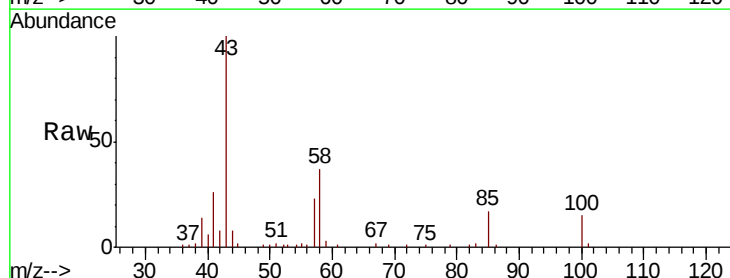
Tot Ion: 75 Resp: 7579
 Ion Ratio Lower Upper
 75 100
 77 30.7 21.0 39.0

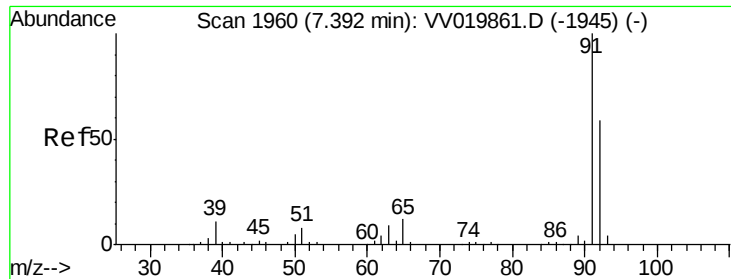


#40

4-Methyl-2-pentanone
 Concen: 2.240 ug/L
 RT: 7.24 min Scan# 1913
 Delta R.T. 0.01 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Tgt Ion: 43 Resp: 28905
 Ion Ratio Lower Upper
 43 100
 58 38.3 30.0 45.0
 100 0.0 11.4 17.0#





#42

Toluene

Concen: 0.221 ug/L

RT: 7.40 min Scan# 1961

Delta R.T. 0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

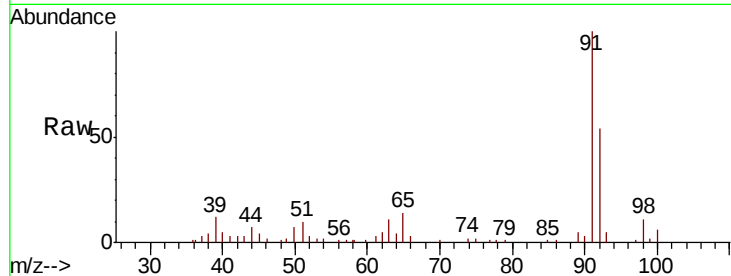
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion: 91 Resp: 20465

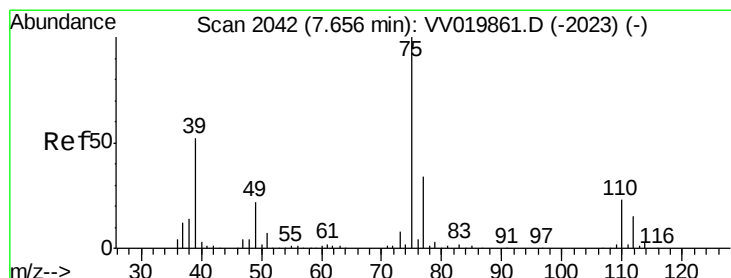
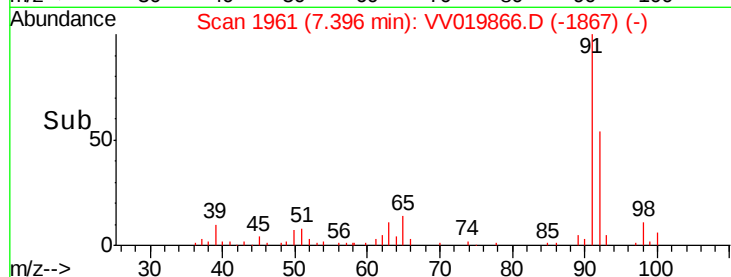
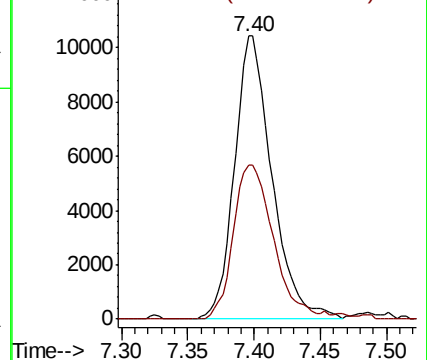
Ion Ratio Lower Upper

91 100

92 54.3 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: 0.277 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. 0.01 min

Lab File: VV019866.D

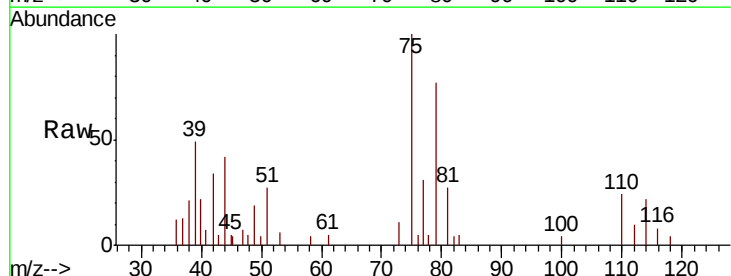
Acq: 29 Dec 2020 16:29

Tgt Ion: 75 Resp: 7113

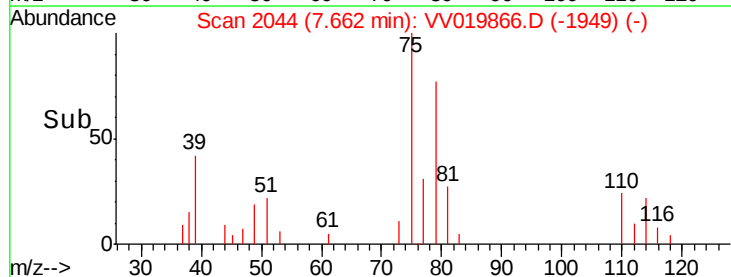
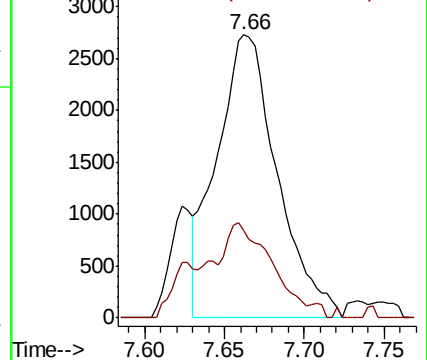
Ion Ratio Lower Upper

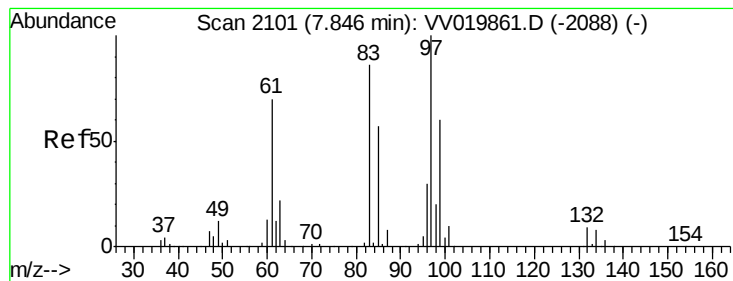
75 100

77 31.1 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: 0.242 ug/L

RT: 7.86 min Scan# 2104

Delta R.T. 0.01 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

Tot Ion: 97 Resp: 3577

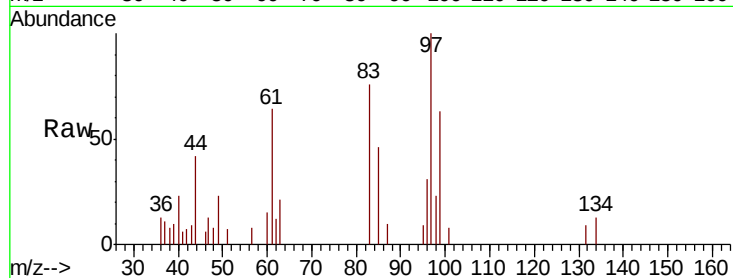
Ion Ratio Lower Upper

97 100

99 63.2 42.4 78.8

83 76.0 59.4 110.4

85 46.3 39.5 73.3

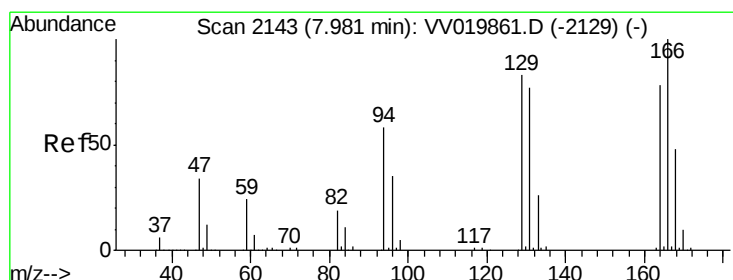
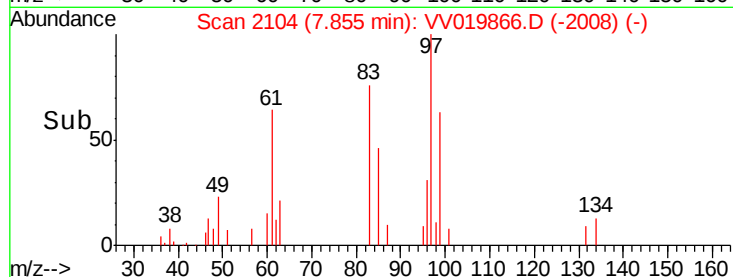
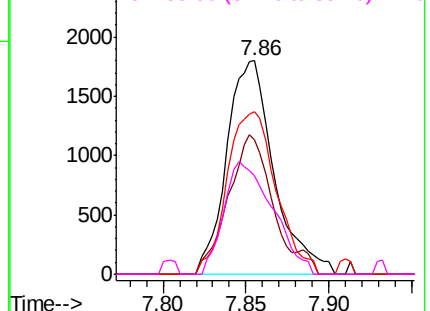


Abundance Ion 96.95 (96.65 to 97.65): VV019866.D (-2088) (-)

Ion 99.05 (98.75 to 99.75): VV019866.D (-2088) (-)

Ion 82.95 (82.65 to 83.65): VV019866.D (-2088) (-)

Ion 85.00 (84.70 to 85.70): VV019866.D (-2088) (-)



#47

Tetrachloroethene

Concen: 0.233 ug/L

RT: 7.98 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Tgt Ion: 164 Resp: 3849

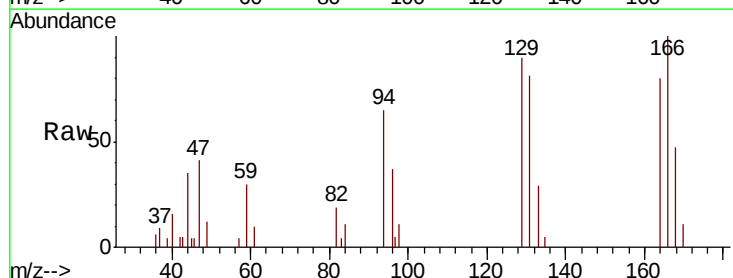
Ion Ratio Lower Upper

164 100

129 113.1 72.1 133.9

131 101.1 68.9 127.9

166 125.2 88.5 164.4

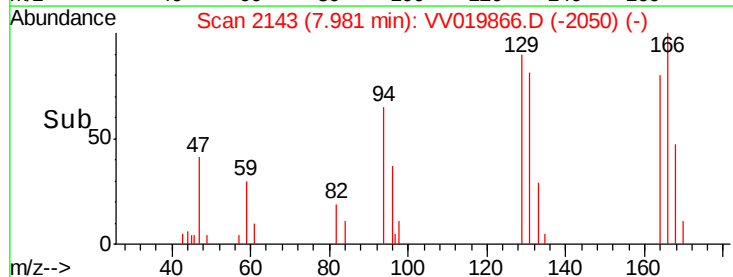
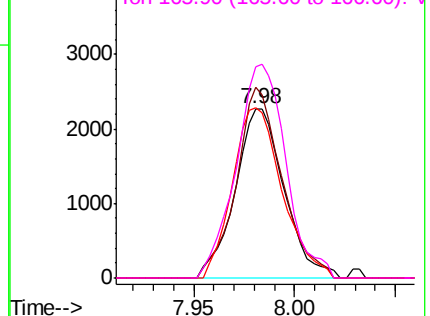


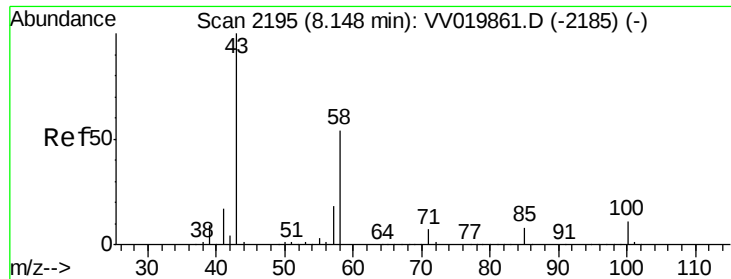
Abundance Ion 163.90 (163.60 to 164.60): VV019866.D (-2050) (-)

Ion 128.95 (128.65 to 129.65): VV019866.D (-2050) (-)

Ion 130.95 (130.65 to 131.65): VV019866.D (-2050) (-)

Ion 165.90 (165.60 to 166.60): VV019866.D (-2050) (-)

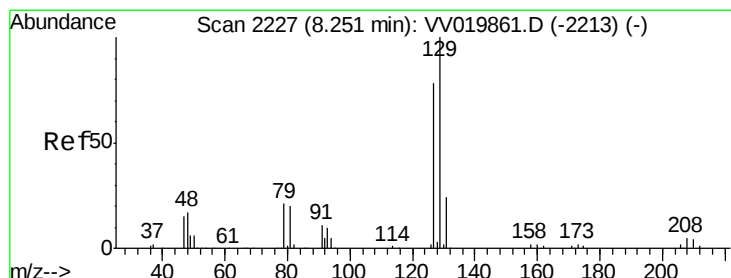
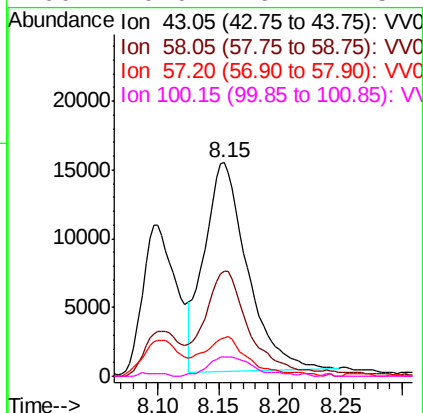
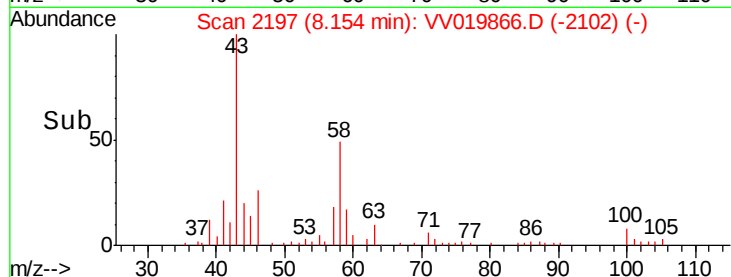
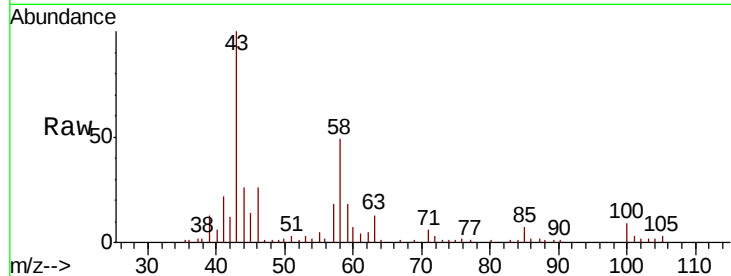




#48
2-Hexanone
Concen: 4.173 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. 0.01 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

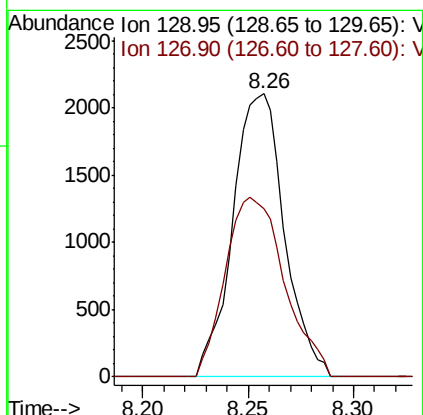
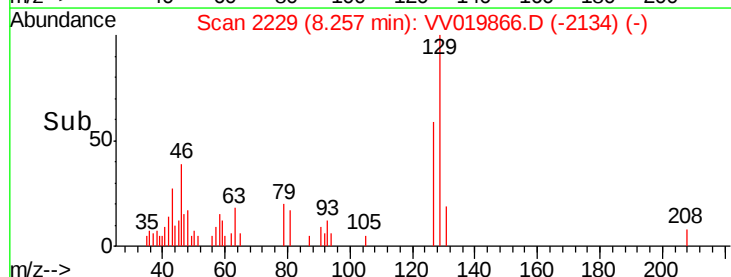
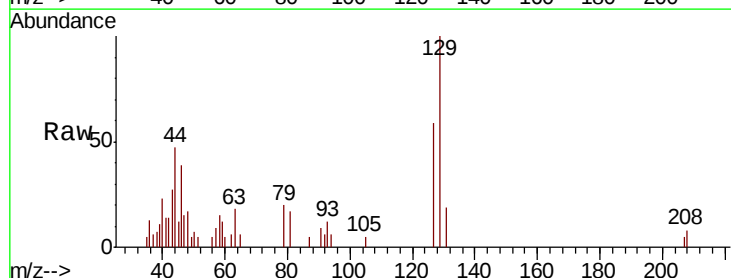
Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

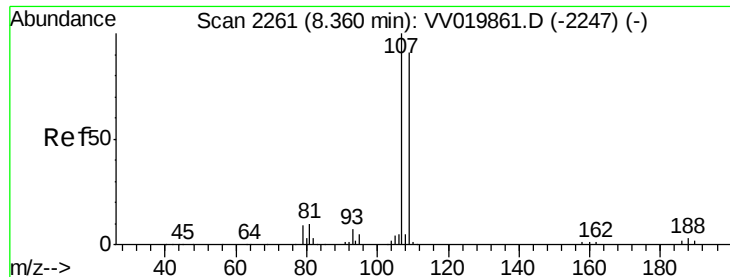
Tot Ion: 43 Resp: 37314
Ion Ratio Lower Upper
43 100
58 48.7 42.4 63.6
57 16.5 14.8 22.2
100 9.9 9.1 13.7



#49
Dibromochloromethane
Concen: 0.224 ug/L
RT: 8.26 min Scan# 2229
Delta R.T. 0.01 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion: 129 Resp: 3577
Ion Ratio Lower Upper
129 100
127 59.3 55.0 102.2





#50

1,2-Dibromoethane

Concen: 0.249 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

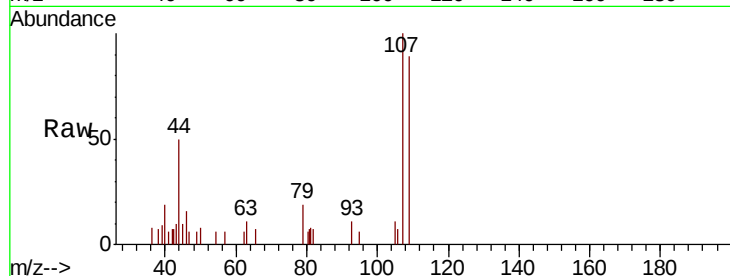
Tot Ion:107 Resp: 3340

Ion Ratio Lower Upper

107 100

109 89.4 63.8 118.4

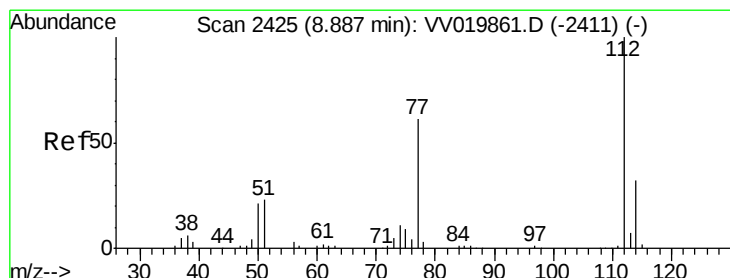
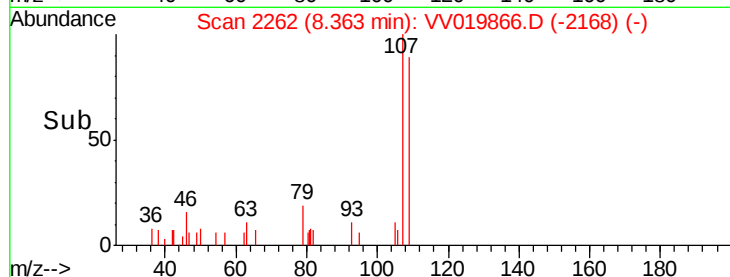
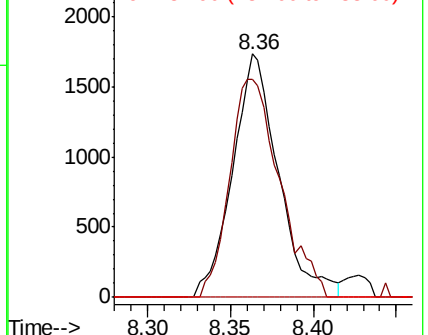
188 0.0 2.5 3.7#



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 0.232 ug/L

RT: 8.89 min Scan# 2426

Delta R.T. 0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

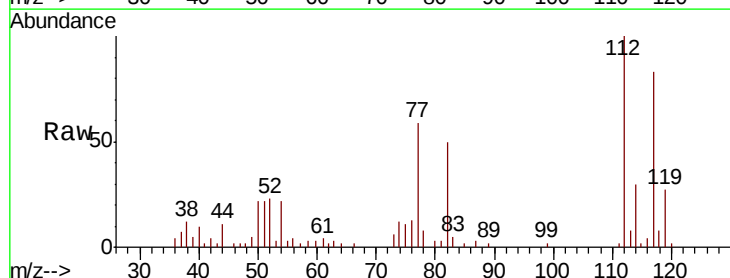
Tgt Ion:112 Resp: 13557

Ion Ratio Lower Upper

112 100

114 30.1 21.8 40.6

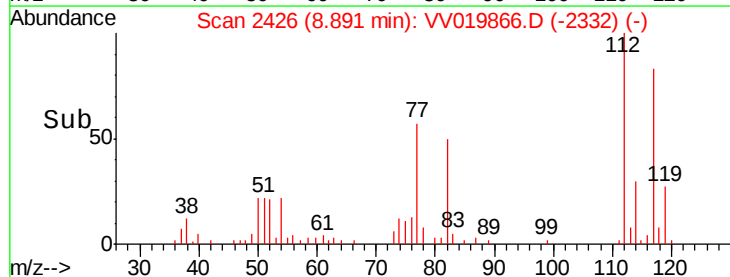
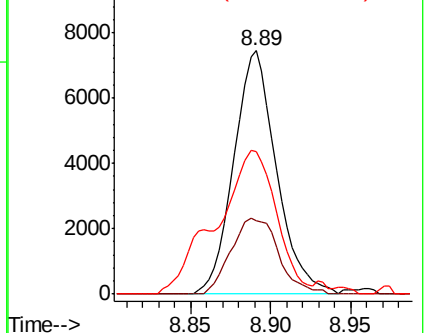
77 58.7 51.0 76.4

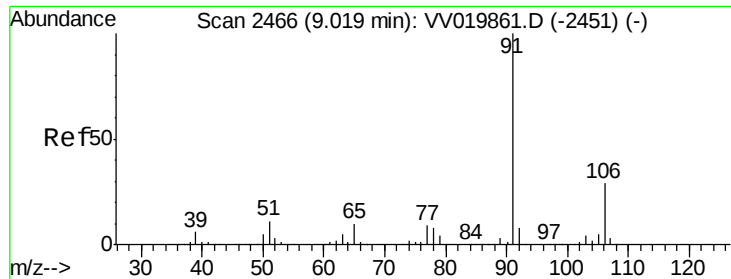


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.219 ug/L

RT: 9.02 min Scan# 2467

Delta R.T. 0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

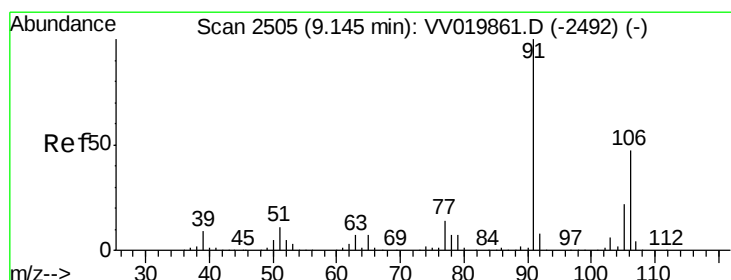
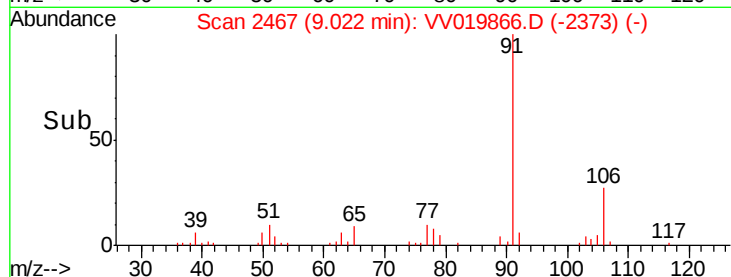
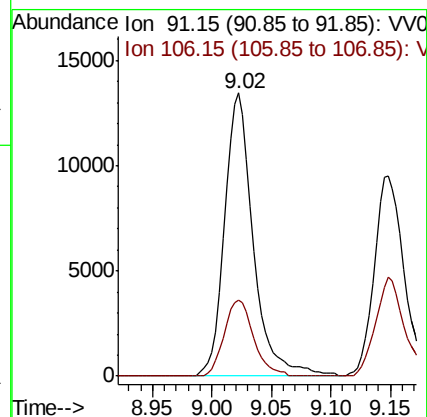
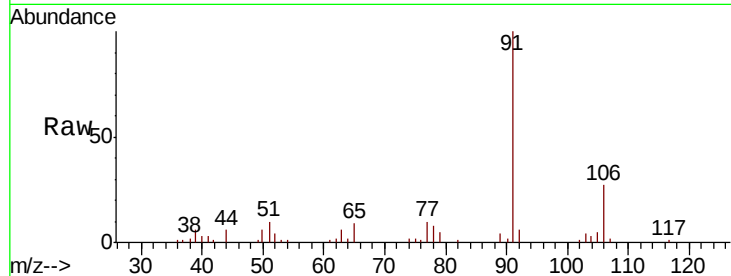
MDL-WATER-01

Tot Ion: 91 Resp: 22458

Ion Ratio Lower Upper

91 100

106 26.7 20.9 38.7



#53

m,p-xylene

Concen: 0.213 ug/L

RT: 9.15 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VV019866.D

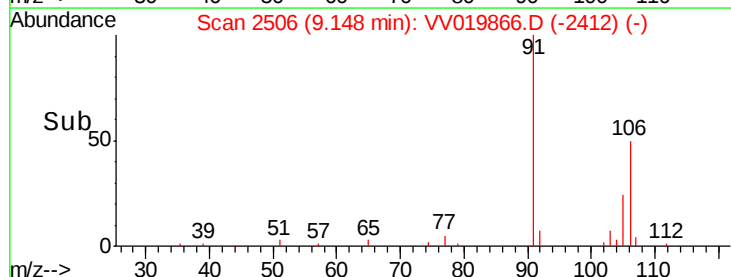
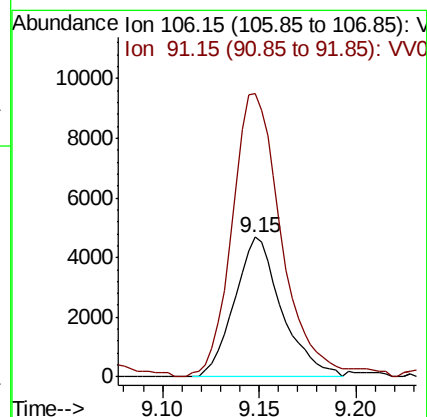
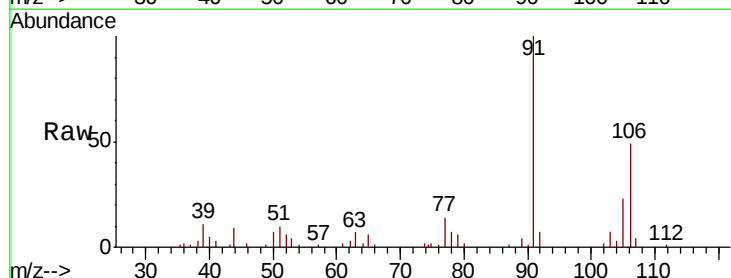
Acq: 29 Dec 2020 16:29

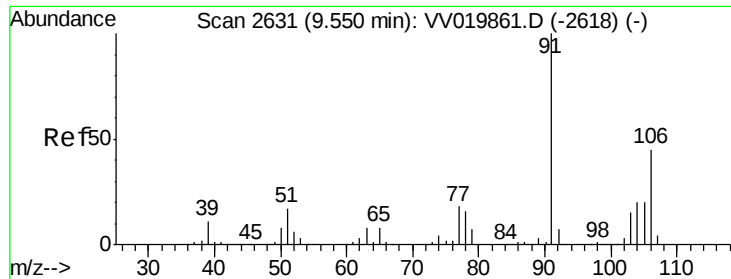
Tgt Ion: 106 Resp: 7973

Ion Ratio Lower Upper

106 100

91 202.4 147.1 273.1

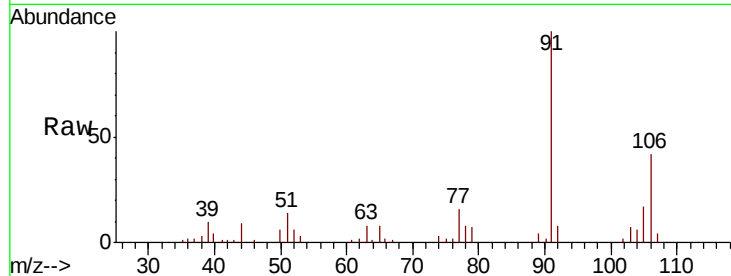




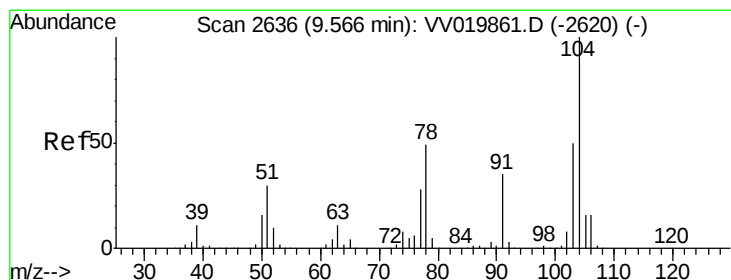
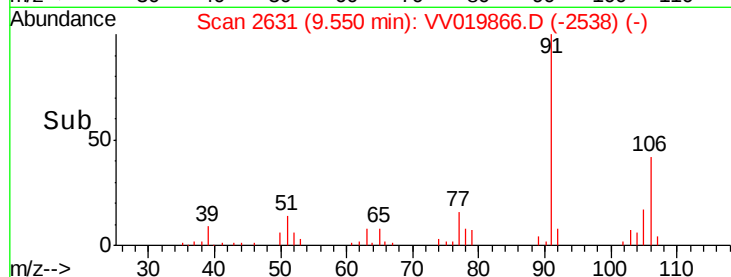
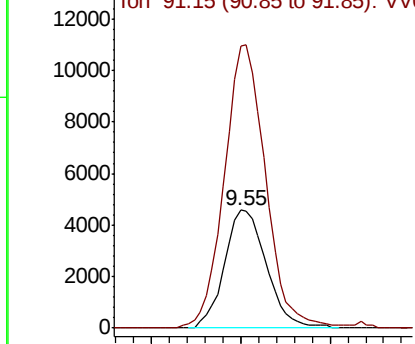
#54
o-xylene
Concen: 0.208 ug/L
RT: 9.55 min Scan# 2631
Delta R.T. -0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion:106 Resp: 7471
Ion Ratio Lower Upper
106 100
91 239.8 155.8 289.3

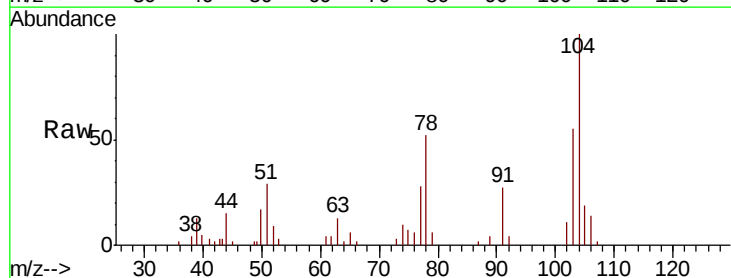


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

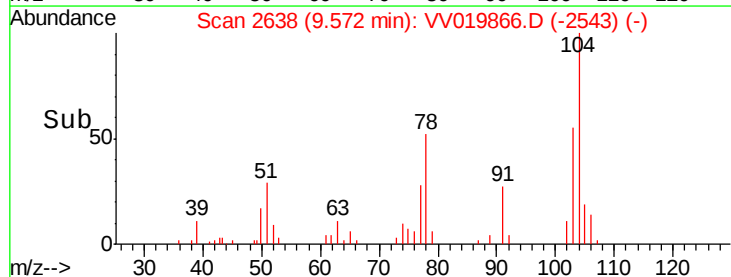
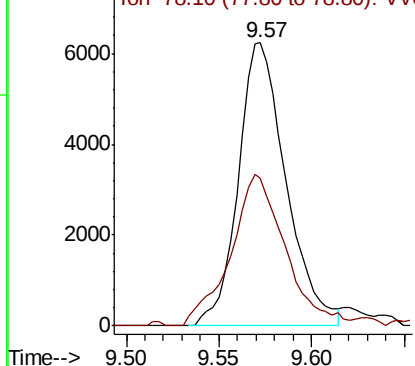


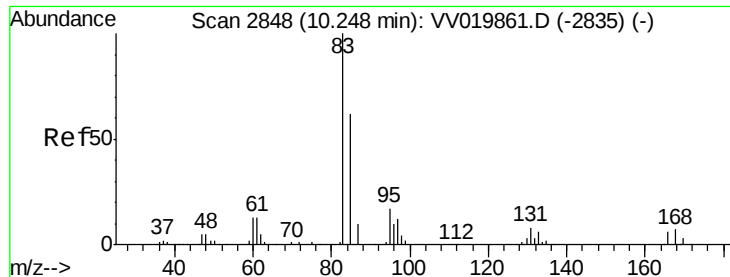
#55
Styrene
Concen: 0.184 ug/L
RT: 9.57 min Scan# 2638
Delta R.T. 0.01 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion:104 Resp: 11150
Ion Ratio Lower Upper
104 100
78 52.0 33.7 62.7



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

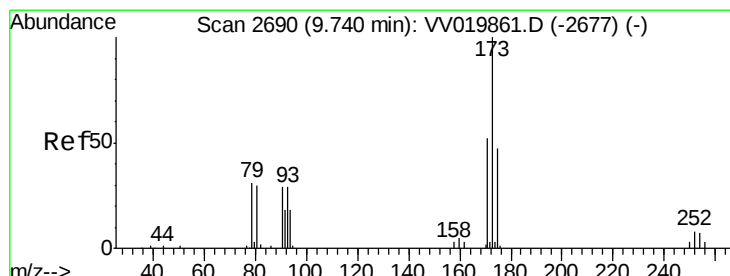
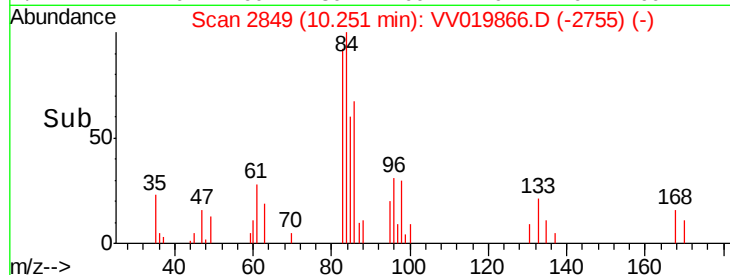
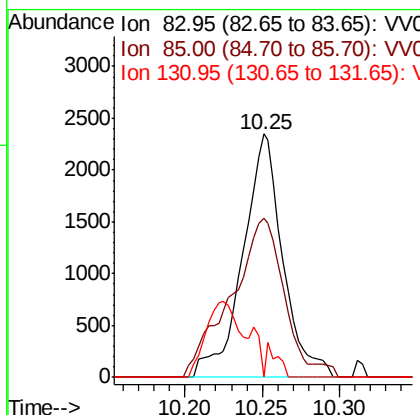
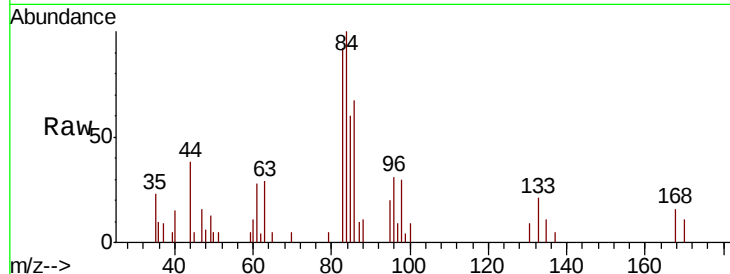




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.270 ug/L
 RT: 10.25 min Scan# 2849
 Delta R.T. 0.00 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

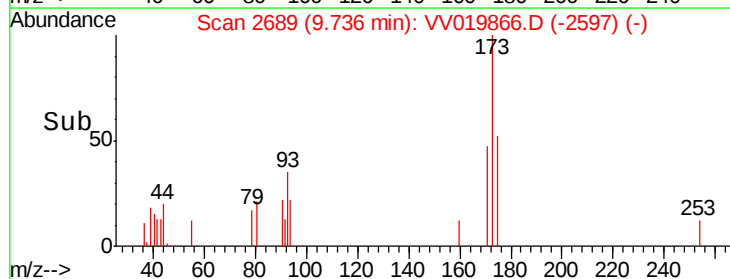
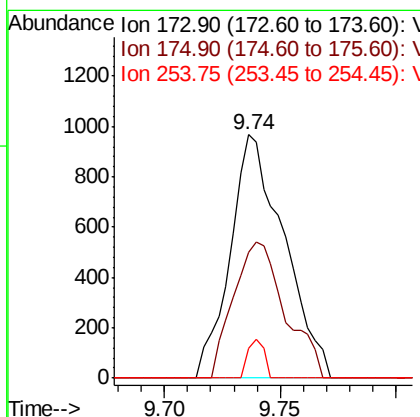
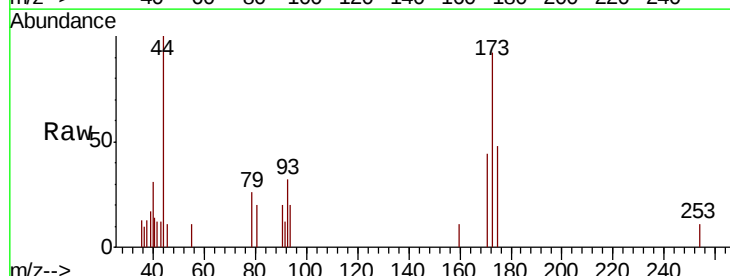
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

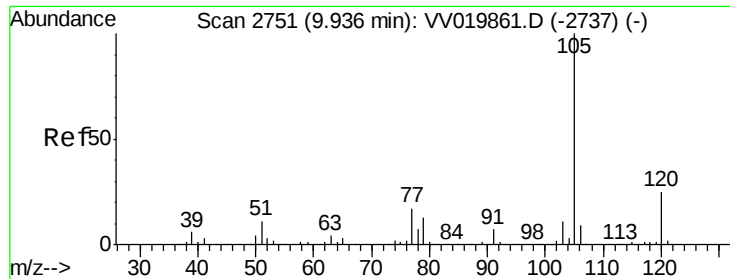
Tot Ion: 83 Resp: 4217
 Ion Ratio Lower Upper
 83 100
 85 65.3 44.3 82.3
 131 0.0 7.4 11.2#



#59
 Bromoform
 Concen: 0.224 ug/L
 RT: 9.74 min Scan# 2689
 Delta R.T. -0.00 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Tgt Ion: 173 Resp: 1556
 Ion Ratio Lower Upper
 173 100
 175 54.2 38.3 57.5
 254 4.8 6.4 9.6#





#60

Isopropylbenzene

Concen: 0.220 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

MDL-WATER-01

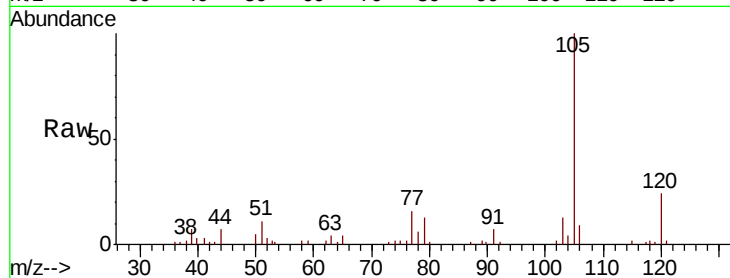
Tot Ion:105 Resp: 20442

Ion Ratio Lower Upper

105 100

120 24.7 20.4 30.6

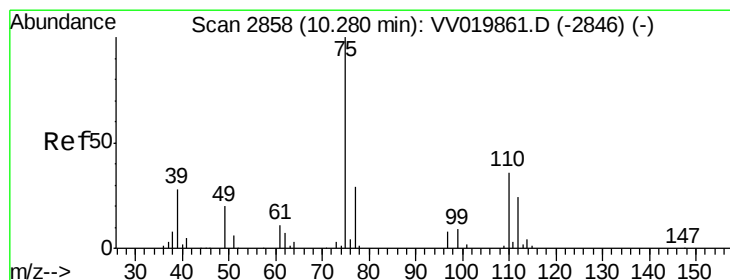
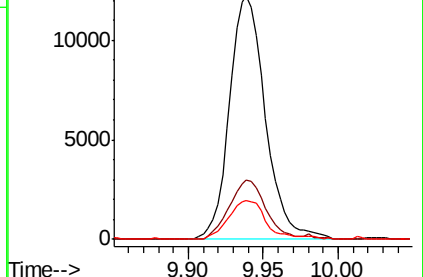
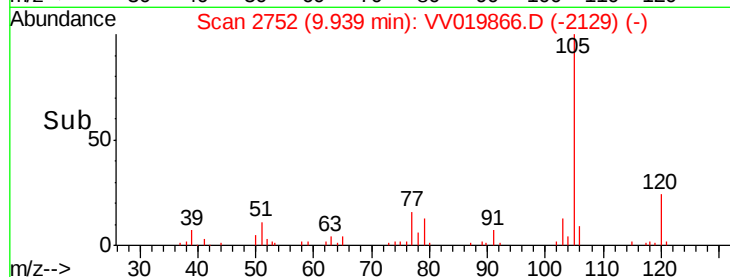
77 16.4 13.7 20.5



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: 0.257 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.01 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

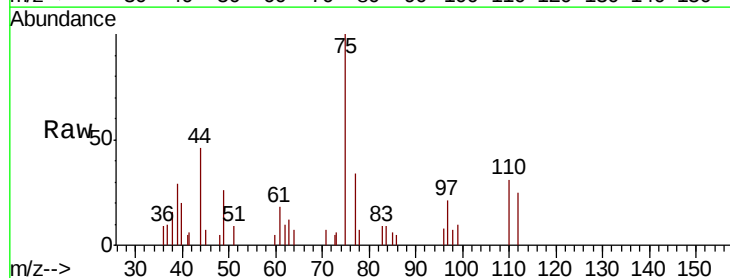
Tgt Ion: 75 Resp: 3174

Ion Ratio Lower Upper

75 100

77 35.9 25.6 38.4

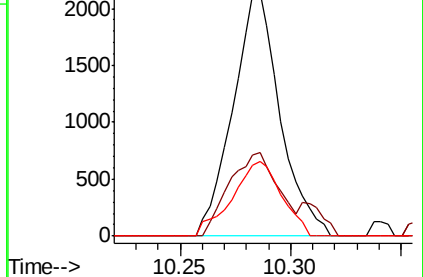
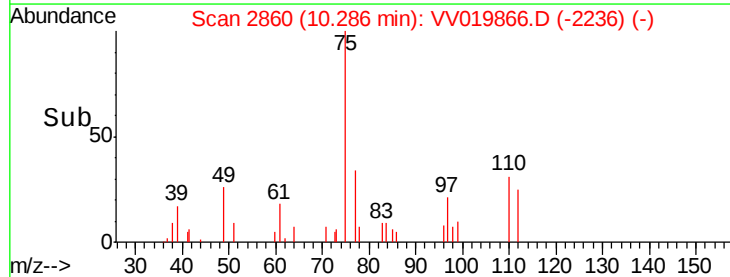
110 32.0 30.5 45.7

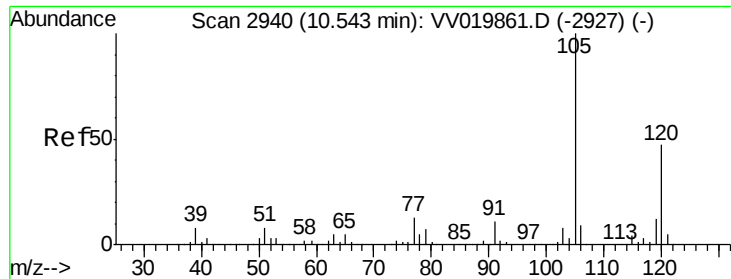


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 0.216 ug/L

RT: 10.55 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampleId :

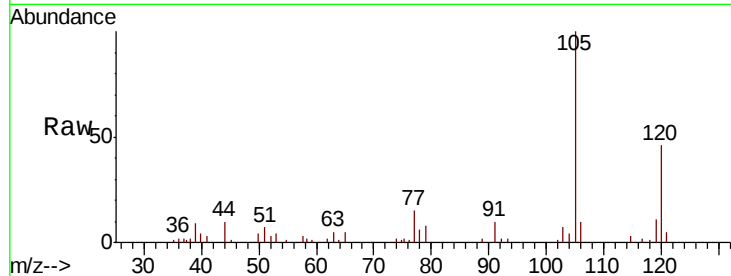
MDL-WATER-01

Tot Ion:105 Resp: 16600

Ion Ratio Lower Upper

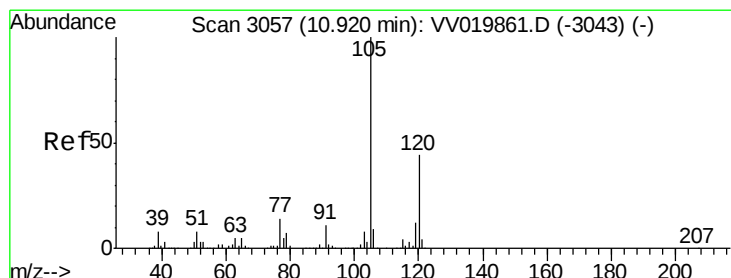
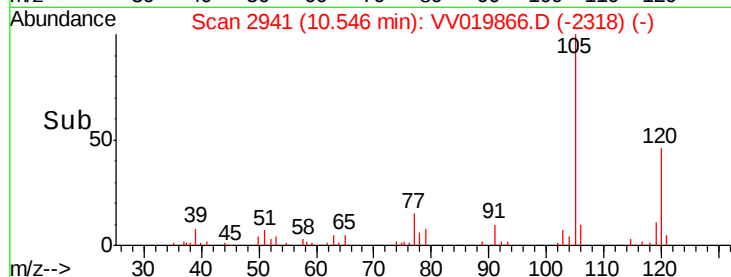
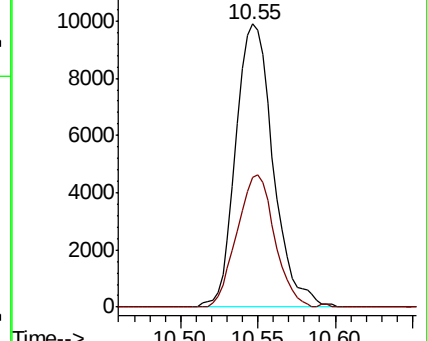
105 100

120 47.0 37.8 56.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 0.201 ug/L

RT: 10.92 min Scan# 3058

Delta R.T. 0.00 min

Lab File: VV019866.D

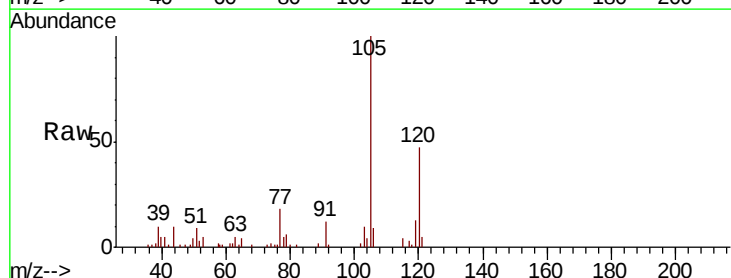
Acq: 29 Dec 2020 16:29

Tgt Ion:105 Resp: 15783

Ion Ratio Lower Upper

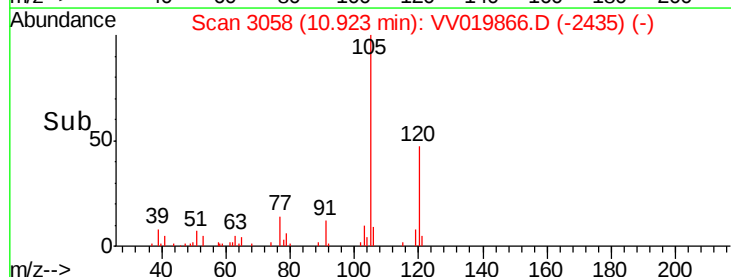
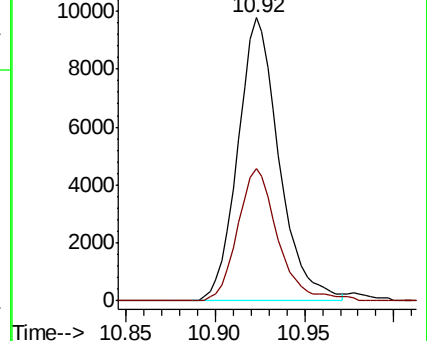
105 100

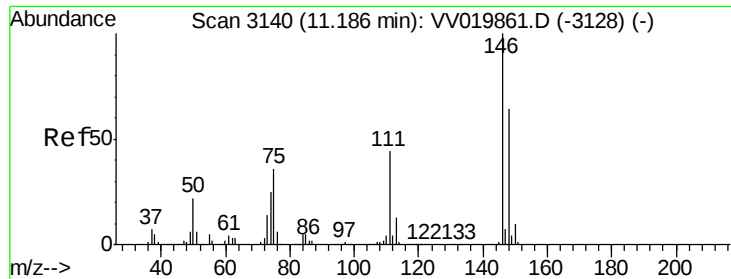
120 45.6 34.9 52.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

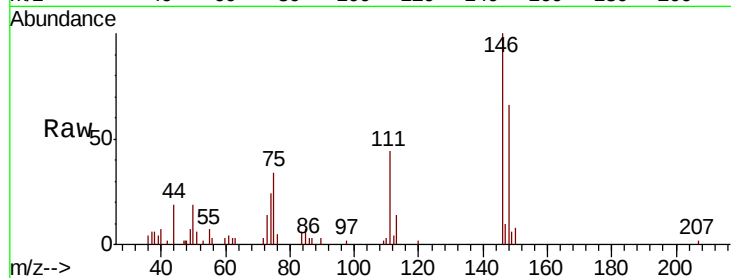




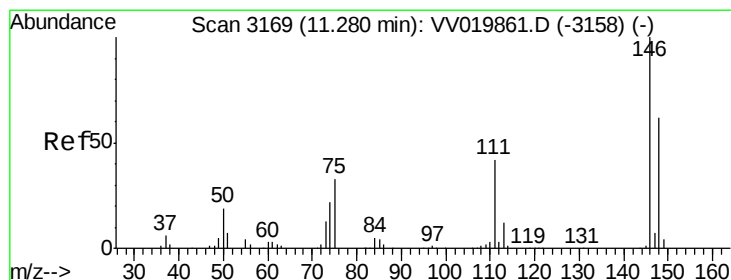
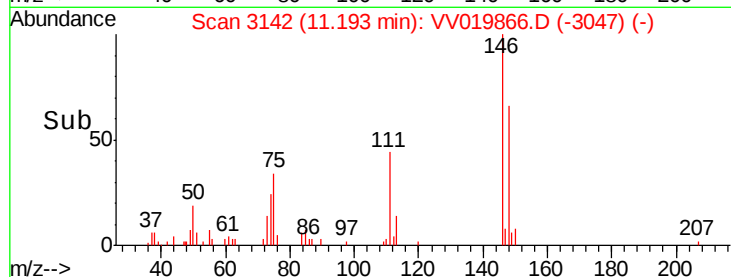
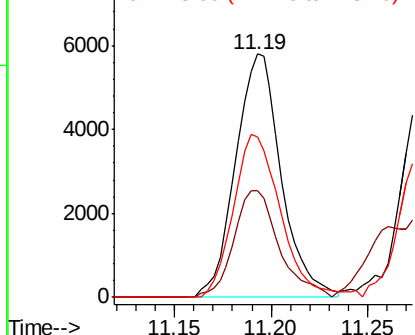
#64
 1,3-Dichlorobenzene
 Concen: 0.233 ug/L
 RT: 11.19 min Scan# 3142
 Delta R.T. 0.01 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion:146 Resp: 9527
 Ion Ratio Lower Upper
 146 100
 111 43.9 30.4 56.5
 148 66.0 45.8 85.2

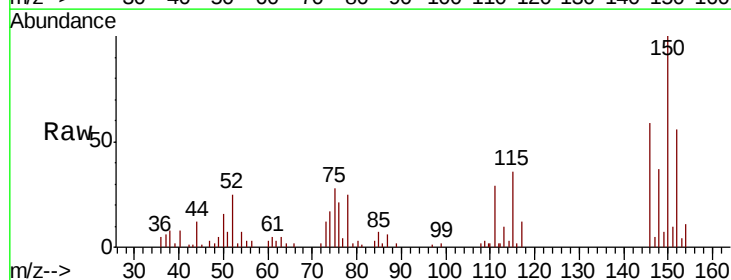


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

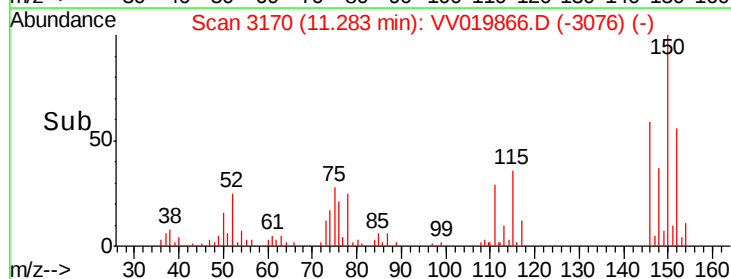
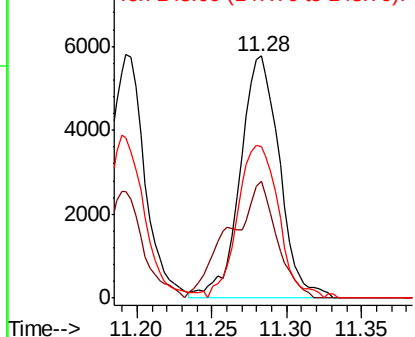


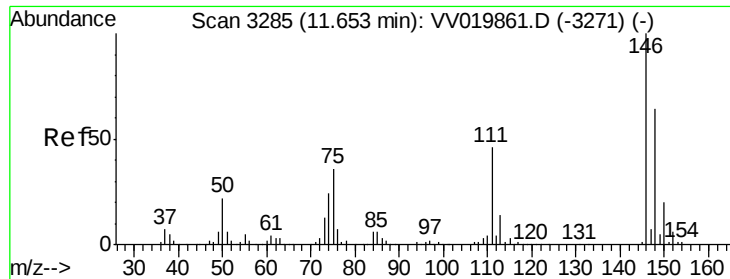
#65
 1,4-Dichlorobenzene
 Concen: 0.257 ug/L
 RT: 11.28 min Scan# 3170
 Delta R.T. 0.00 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Tgt Ion:146 Resp: 10545
 Ion Ratio Lower Upper
 146 100
 111 48.2 29.7 55.1
 148 62.7 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: 0.247 ug/L

RT: 11.65 min Scan# 3285

Delta R.T. -0.00 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

Instrument :

MSVOA_V

ClientSampled :

MDL-WATER-01

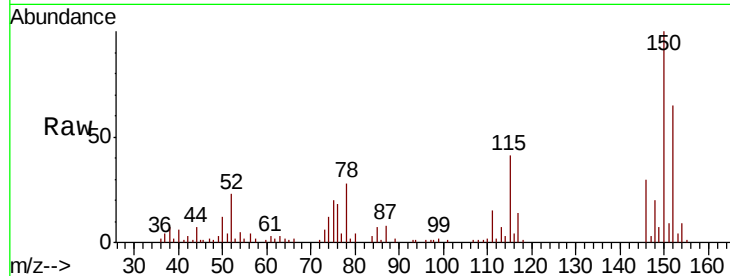
Tot Ion:146 Resp: 9283

Ion Ratio Lower Upper

146 100

111 49.5 37.7 56.5

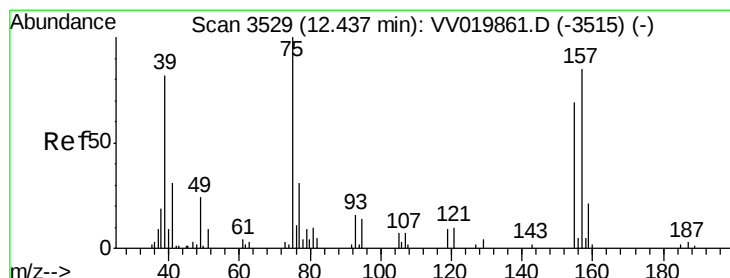
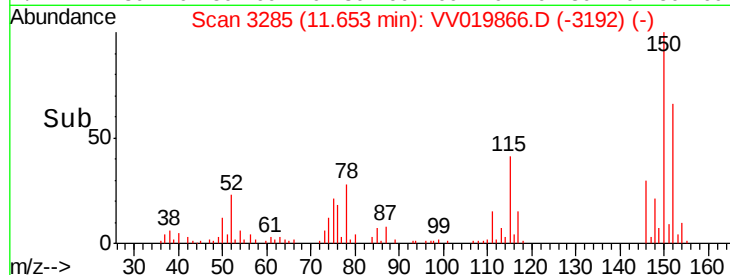
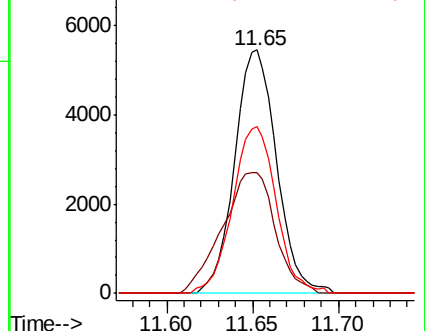
148 68.3 50.6 75.8



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



#68

1,2-Dibromo-3-chloropropane

Concen: 0.205 ug/L

RT: 12.45 min Scan# 3532

Delta R.T. 0.01 min

Lab File: VV019866.D

Acq: 29 Dec 2020 16:29

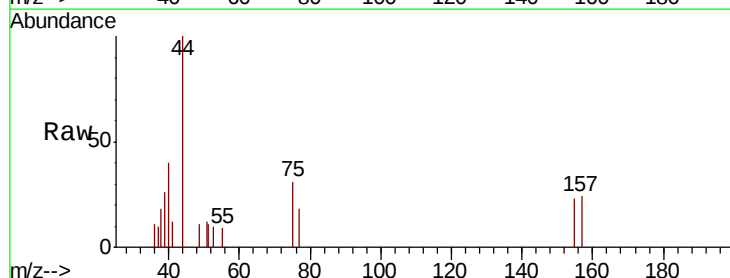
Tgt Ion: 75 Resp: 522

Ion Ratio Lower Upper

75 100

155 74.1 56.5 84.7

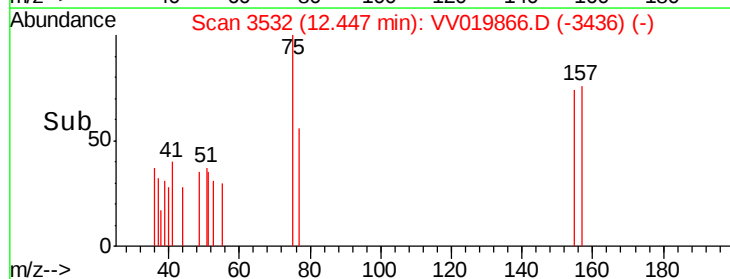
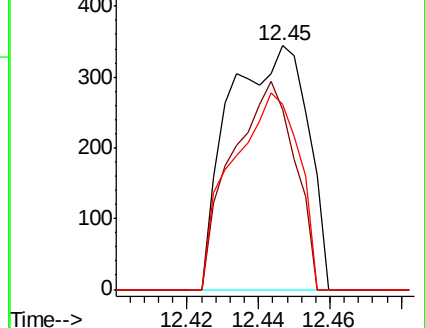
157 76.2 74.2 111.2

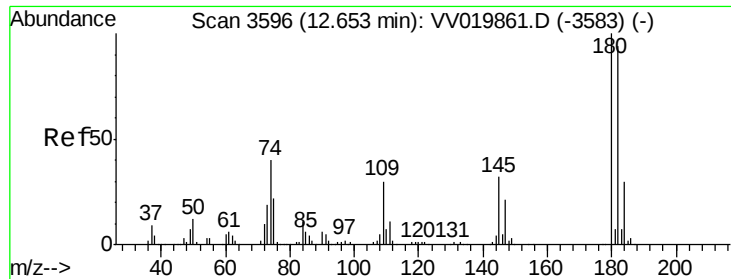


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

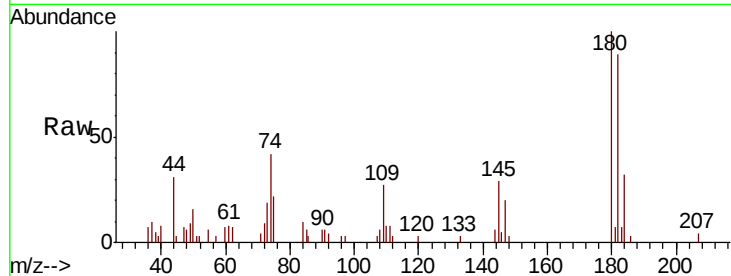




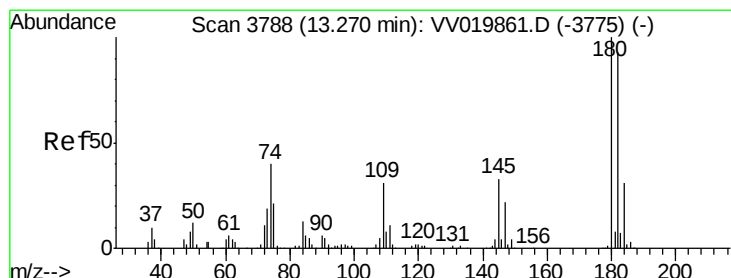
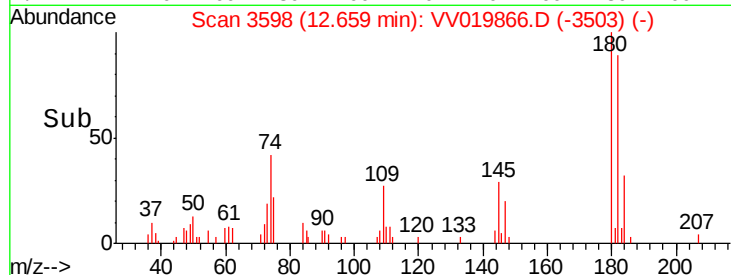
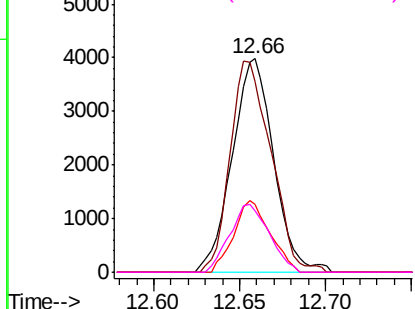
#69
 1,3,5-Trichlorobenzene
 Concen: 0.220 ug/L
 RT: 12.66 min Scan# 3598
 Delta R.T. 0.01 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-WATER-01

Tot Ion:180 Resp: 6671
 Ion Ratio Lower Upper
 180 100
 182 97.4 75.9 113.9
 184 29.2 23.5 35.3
 145 30.1 26.2 39.2

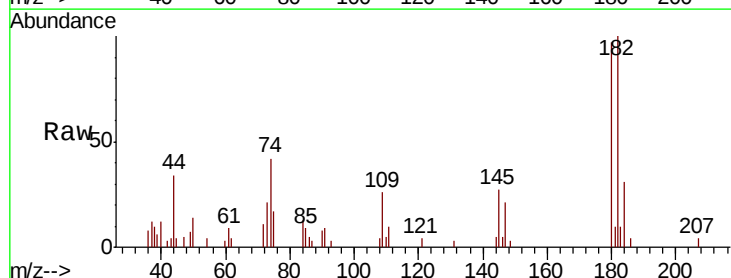


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

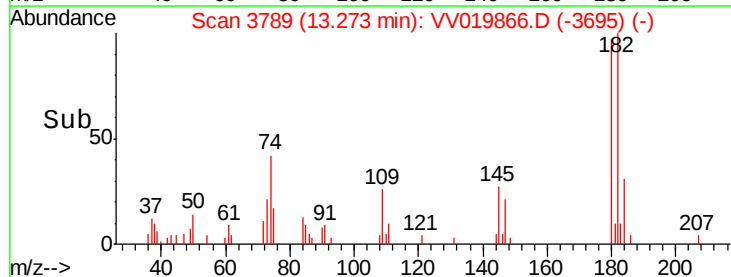
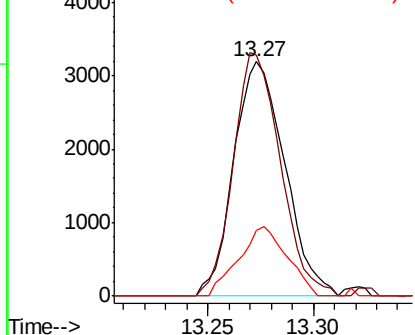


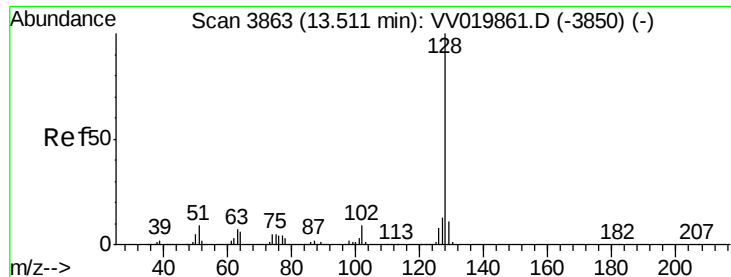
#70
 1,2,4-trichlorobenzene
 Concen: 0.218 ug/L
 RT: 13.27 min Scan# 3789
 Delta R.T. 0.00 min
 Lab File: VV019866.D
 Acq: 29 Dec 2020 16:29

Tgt Ion:180 Resp: 5369
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.9 113.9
 145 28.0 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

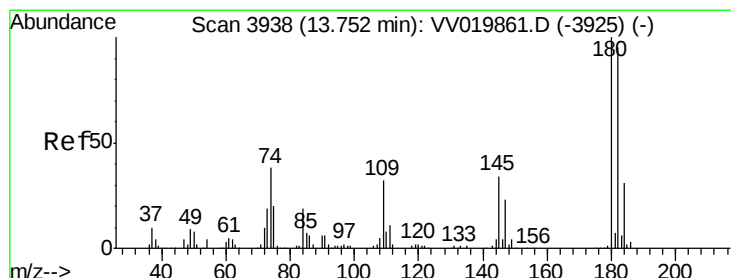
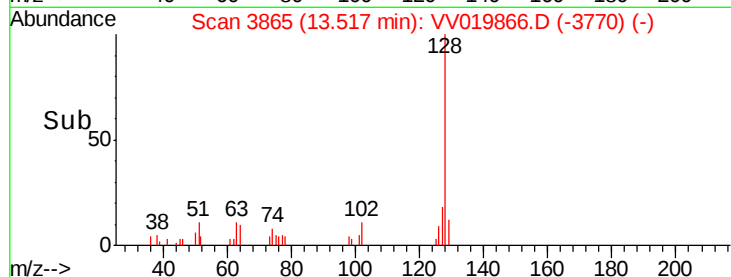
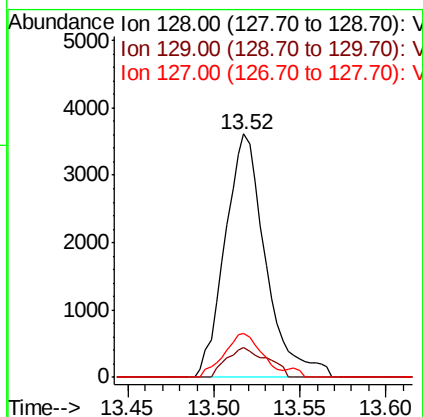
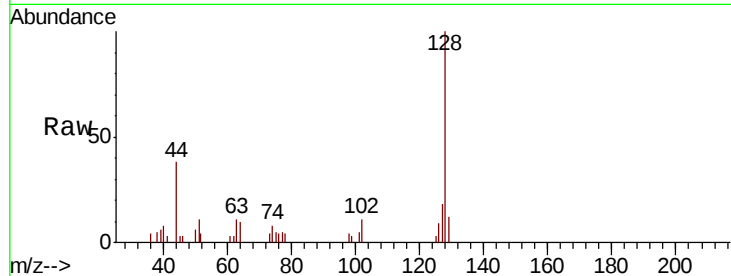




#71
Naphthalene
Concen: 0.159 ug/L
RT: 13.52 min Scan# 3865
Delta R.T. 0.01 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Instrument :
MSVOA_V
ClientSampleId :
MDL-WATER-01

Tot Ion:128 Resp: 5919
Ion Ratio Lower Upper
128 100
129 12.3 8.5 12.7
127 16.9 10.2 15.4#



#72
1,2,3-Trichlorobenzene
Concen: 0.205 ug/L
RT: 13.76 min Scan# 3939
Delta R.T. 0.00 min
Lab File: VV019866.D
Acq: 29 Dec 2020 16:29

Tgt Ion:180 Resp: 4296
Ion Ratio Lower Upper
180 100
182 93.9 74.6 112.0
145 32.9 28.8 43.2

