

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092520\
 Data File : VU040283.D
 Acq On : 24 Sep 2020 20:30
 Operator : SY/MD
 Sample : MDL03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

Quant Time: Sep 25 02:55:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR092420WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 25 02:46:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	202293	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	203568	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	94204	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	61828	4.69	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.80%
7) Chloroethane-d5	1.92	69	54295	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.60%
11) 1,1-Dichloroethene-d2	2.58	65	32589	4.86	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.20%
20) 2-Butanone-d5	4.66	46	251923	51.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.34%
24) Chloroform-d	5.08	84	125004	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
26) 1,2-Dichloroethane-d4	5.72	65	79256	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
32) Benzene-d6	5.74	84	242839	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
36) 1,2-Dichloropropane-d6	6.70	67	81522	4.76	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.20%
41) Toluene-d8	7.91	98	209200	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
43) trans-1,3-Dichloropropene-	8.19	79	31811	4.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.60%
46) 2-Hexanone-d5	8.64	63	176012	48.97	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.94%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	70194	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.00%
66) 1,2-Dichlorobenzene-d4	12.19	152	81832	5.14	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	5338	0.253 ug/L	92
3) Chloromethane	1.52	50	5371	0.259 ug/L	95
5) Vinyl chloride	1.61	62	5250	0.257 ug/L #	74
6) Bromomethane	1.87	94	2781	0.254 ug/L	84
8) Chloroethane	1.94	64	3170	0.260 ug/L	97
9) Trichlorofluoromethane	2.15	101	6394	0.232 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	4293	0.252 ug/L #	92
12) 1,1-Dichloroethene	2.60	96	4545	0.288 ug/L #	1
13) Acetone	2.67	43	8551	2.144 ug/L	77
14) Carbon disulfide	2.81	76	13802	0.250 ug/L	97
15) Methyl Acetate	2.97	43	2532	0.261 ug/L #	78
16) Methylene chloride	3.06	84	7795	0.394 ug/L	91
17) Methyl tert-butyl Ether	3.38	73	9871	0.235 ug/L	97
18) trans-1,2-Dichloroethene	3.38	96	4111	0.247 ug/L	87
19) 1,1-Dichloroethane	3.89	63	7853	0.239 ug/L #	96
21) 2-Butanone	4.75	43	18033	2.806 ug/L #	75
22) cis-1,2-Dichloroethene	4.68	96	4381	0.251 ug/L	86

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 ALS Vial : 14 Sample Multiplier: 1

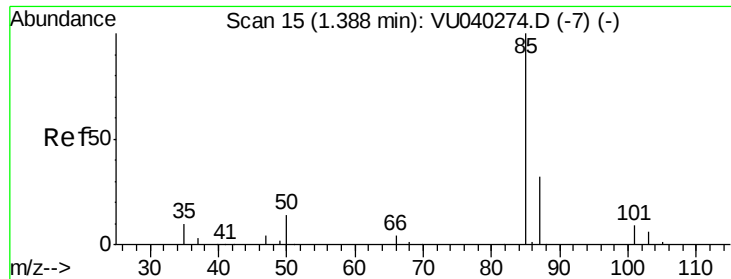
Instrument :
 MSVOA_U
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 MDL-WATER-01

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR092420WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.00	128	1987	0.243	ug/L #	72
25) Chloroform	5.11	83	12358	0.376	ug/L	95
27) 1,2-Dichloroethane	5.81	62	6087	0.257	ug/L	97
29) 1,1,1-Trichloroethane	5.34	97	6522	0.228	ug/L	96
30) Cyclohexane	5.40	56	6471	0.207	ug/L	93
31) Carbon tetrachloride	5.55	117	5417	0.222	ug/L	97
33) Benzene	5.79	78	17048	0.241	ug/L	100
34) Trichloroethene	6.56	95	4314	0.235	ug/L	91
35) Methylcyclohexane	6.77	83	5840	0.203	ug/L	93
37) 1,2-Dichloropropane	6.80	63	4341	0.221	ug/L #	96
38) Bromodichloromethane	7.11	83	5329	0.222	ug/L	97
39) cis-1,3-Dichloropropene	7.62	75	5788	0.217	ug/L	99
40) 4-Methyl-2-pentanone	7.80	43	33905	2.258	ug/L #	88
42) Toluene	7.98	91	16262	0.228	ug/L	91
44) trans-1,3-Dichloropropene	8.21	75	7498	0.303	ug/L	99
45) 1,1,2-Trichloroethane	8.40	97	3487	0.261	ug/L	94
47) Tetrachloroethene	8.56	164	2979	0.225	ug/L	91
48) 2-Hexanone	8.69	43	29761	2.712	ug/L	96
49) Dibromochloromethane	8.82	129	3459	0.224	ug/L	97
50) 1,2-Dibromoethane	8.93	107	2801	0.216	ug/L #	97
51) Chlorobenzene	9.45	112	10856	0.236	ug/L	95
52) Ethylbenzene	9.57	91	17920	0.227	ug/L	98
53) m,p-Xylene	9.69	106	5890	0.207	ug/L	99
54) o-Xylene	10.10	106	5635	0.206	ug/L	84
55) Styrene	10.11	104	9460	0.200	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.78	83	3592	0.203	ug/L	88
59) Bromoform	10.29	173	1878	0.245	ug/L #	96
60) Isopropylbenzene	10.48	105	13982	0.212	ug/L	99
61) 1,2,3-Trichloropropane	10.82	75	3100	0.253	ug/L	95
62) 1,3,5-Trimethylbenzene	11.09	105	11159	0.209	ug/L	95
63) 1,2,4-Trimethylbenzene	11.46	105	10095	0.187	ug/L	96
64) 1,3-Dichlorobenzene	11.74	146	7875	0.241	ug/L	88
65) 1,4-Dichlorobenzene	11.83	146	8435	0.250	ug/L	98
67) 1,2-Dichlorobenzene	12.20	146	7364	0.237	ug/L #	82
68) 1,2-Dibromo-3-chloropropan	12.99	75	758	0.264	ug/L #	80
69) 1,3,5-Trichlorobenzene	13.21	180	5257	0.228	ug/L	97
70) 1,2,4-trichlorobenzene	13.83	180	3559	0.191	ug/L	91
71) Naphthalene	14.08	128	5251	0.163	ug/L #	96
72) 1,2,3-Trichlorobenzene	14.32	180	3518	0.212	ug/L #	92

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



#2

Dichlorodifluoromethane

Concen: 0.253 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040283.D

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MSVOA_U

ClientSampleId :

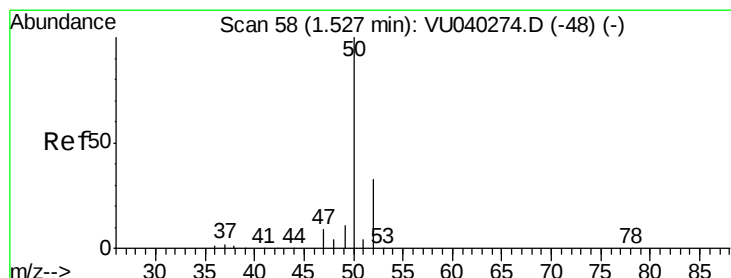
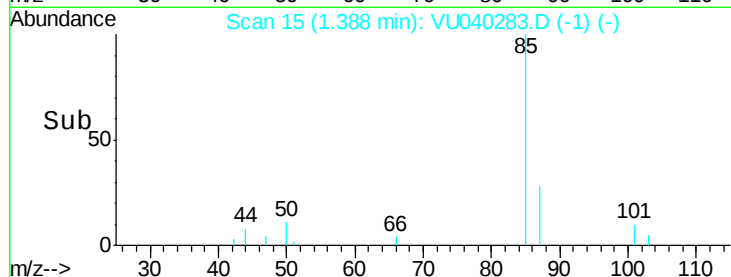
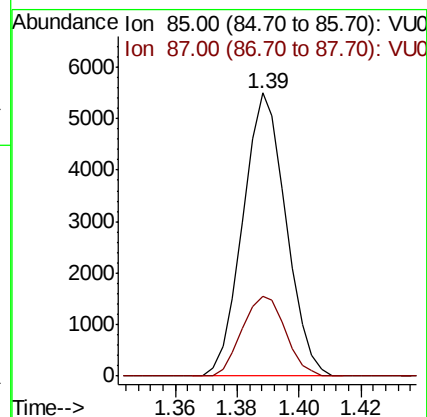
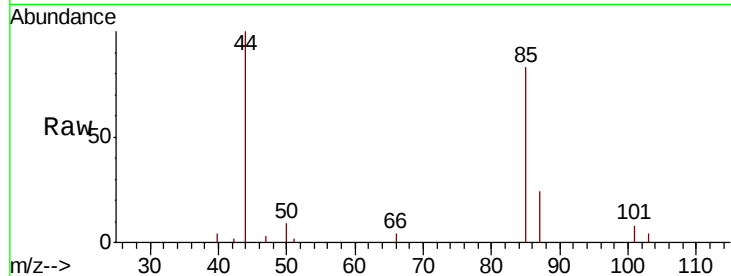
MDL-WATER-01

Tot Ion: 85 Resp: 5338

Ion Ratio Lower Upper

85 100

87 28.0 25.8 38.8



#3

Chloromethane

Concen: 0.259 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU040283.D

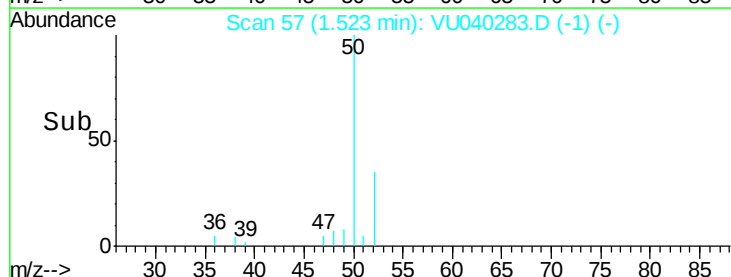
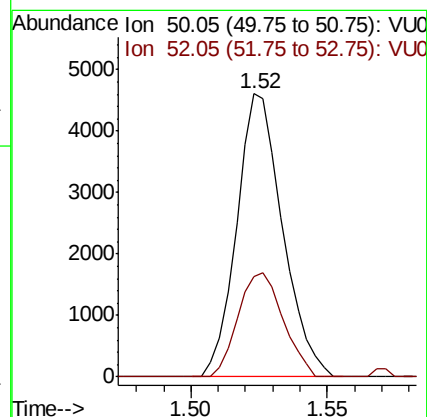
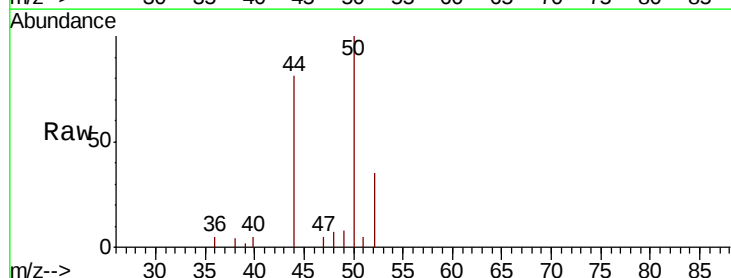
Acq: 24 Sep 2020 20:30

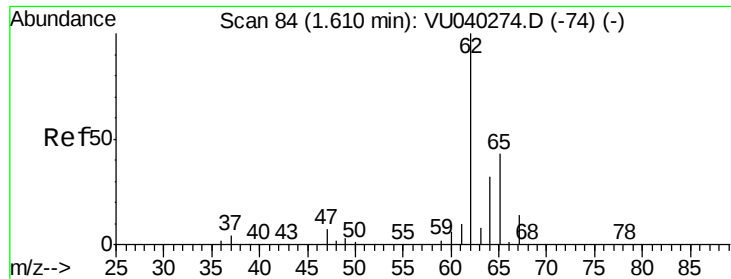
Tgt Ion: 50 Resp: 5371

Ion Ratio Lower Upper

50 100

52 35.3 22.9 42.5





#5

Vinyl chloride

Concen: 0.257 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

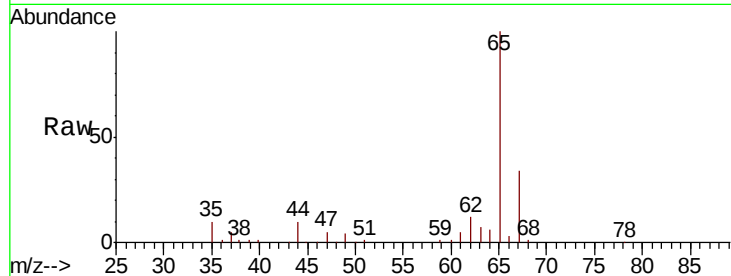
MDL-WATER-01

Tot Ion: 62 Resp: 5250

Ion Ratio Lower Upper

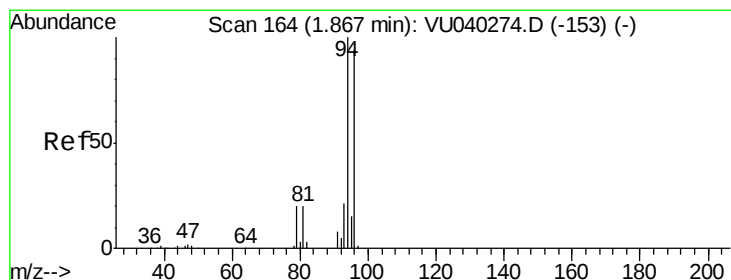
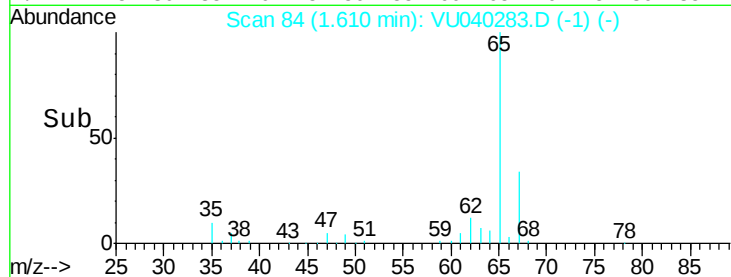
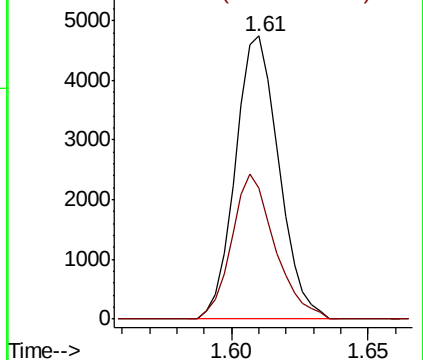
62 100

64 46.4 22.3 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.254 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU040283.D

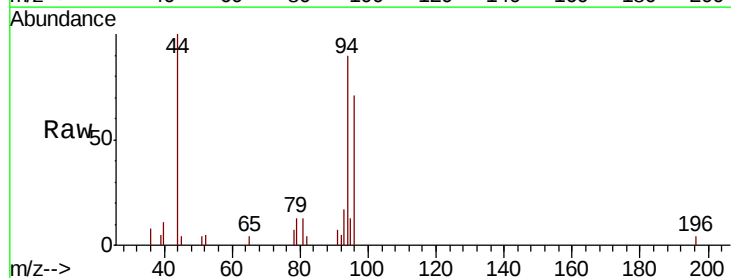
Acq: 24 Sep 2020 20:30

Tgt Ion: 94 Resp: 2781

Ion Ratio Lower Upper

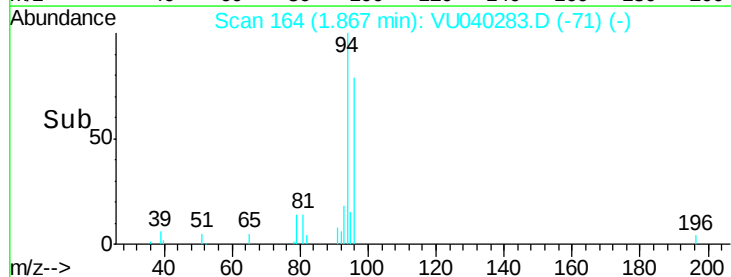
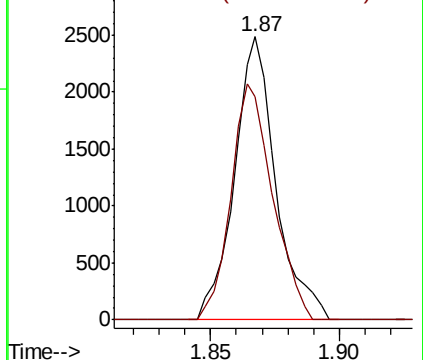
94 100

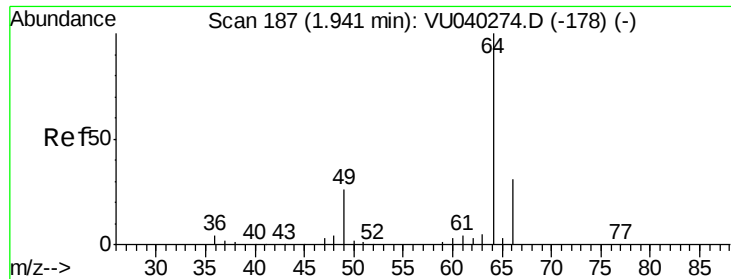
96 78.9 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

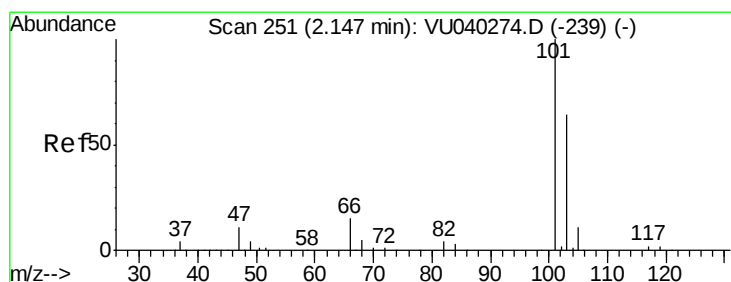
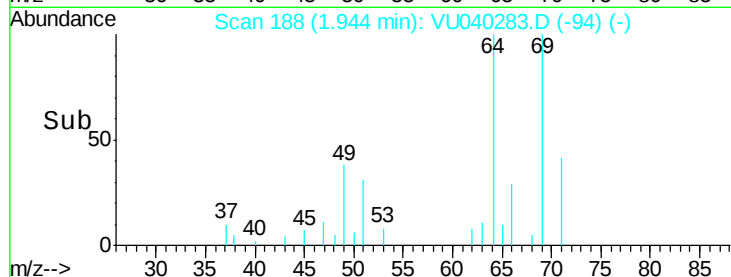
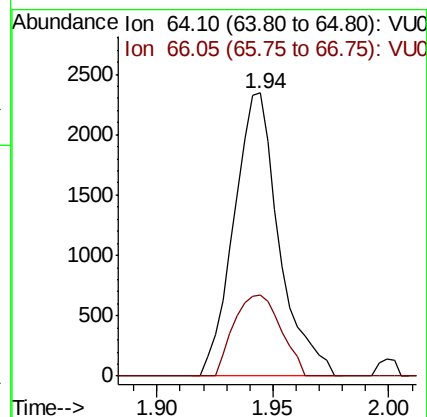
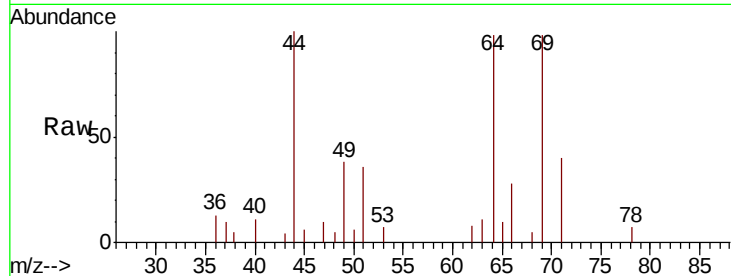




#8
Chloroethane
Concen: 0.260 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

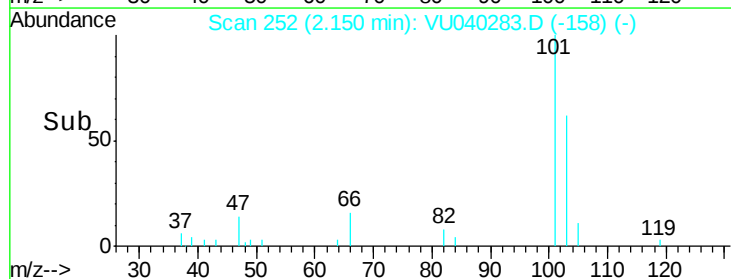
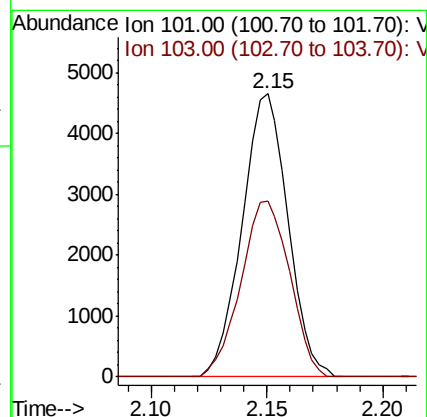
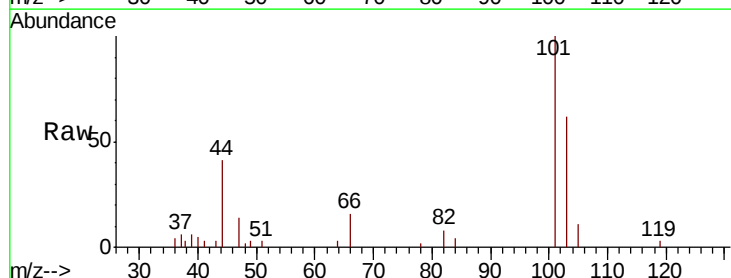
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-01

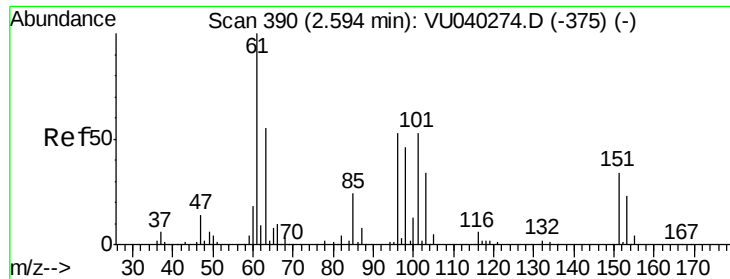
Tot Ion: 64 Resp: 3170
Ion Ratio Lower Upper
64 100
66 28.9 21.3 39.6



#9
Trichlorofluoromethane
Concen: 0.232 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Tgt Ion:101 Resp: 6394
Ion Ratio Lower Upper
101 100
103 66.0 51.2 76.8





#10

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

Concen: 0.252 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-01

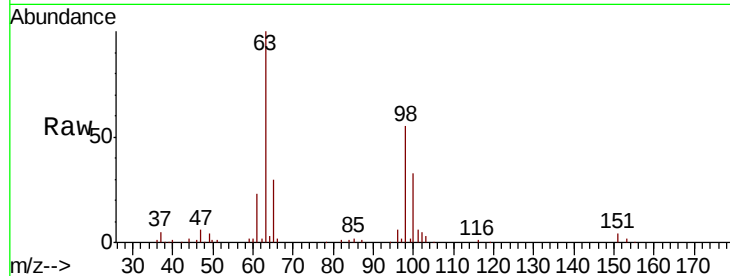
Tot Ion:101 Resp: 4293

Ion Ratio Lower Upper

101 100

85 34.6 36.7 55.1#

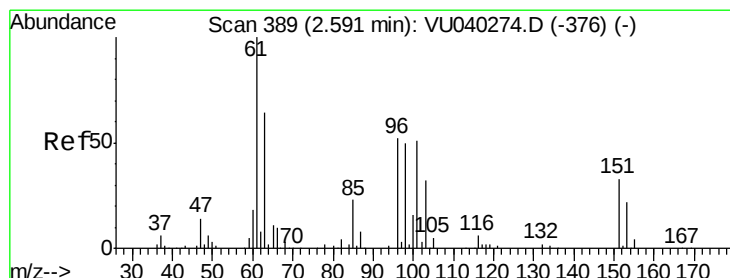
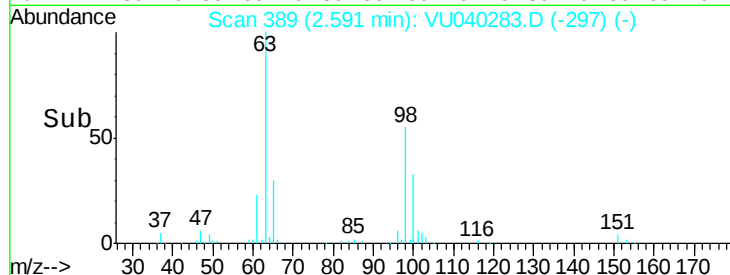
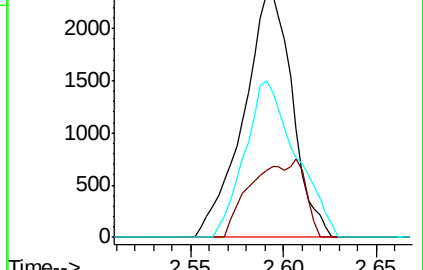
151 66.6 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.288 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.01 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

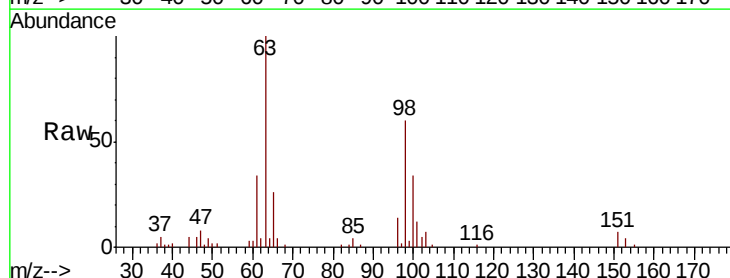
Tgt Ion: 96 Resp: 4545

Ion Ratio Lower Upper

96 100

61 238.7 134.3 249.3

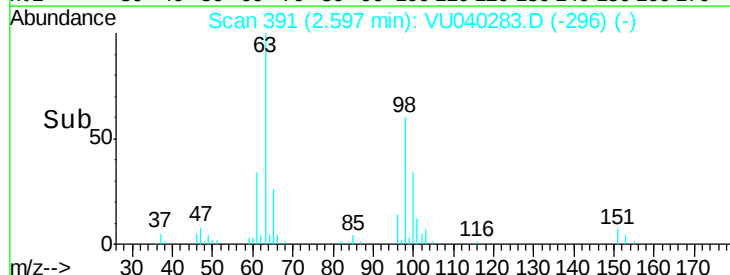
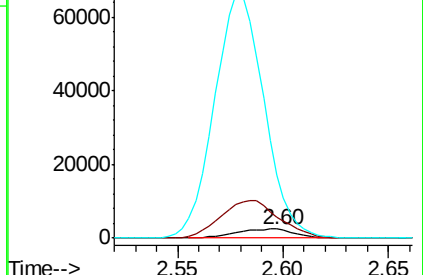
63 708.3 88.5 164.4#

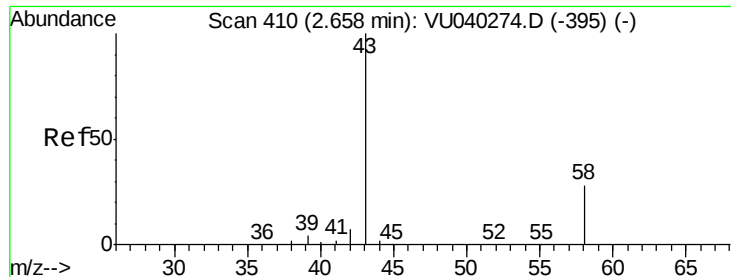


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.144 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.01 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

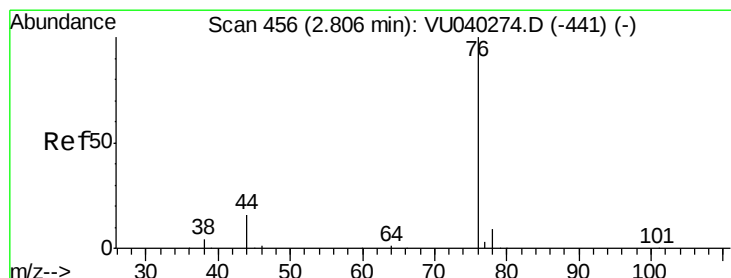
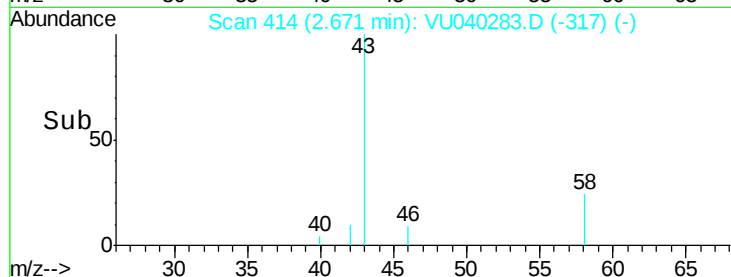
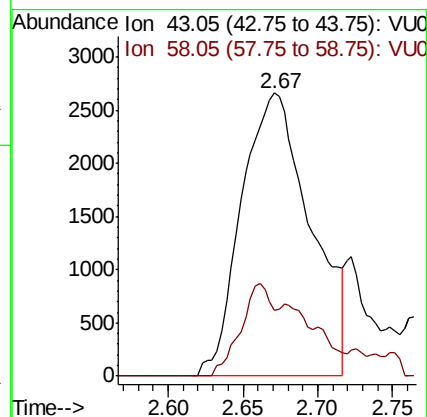
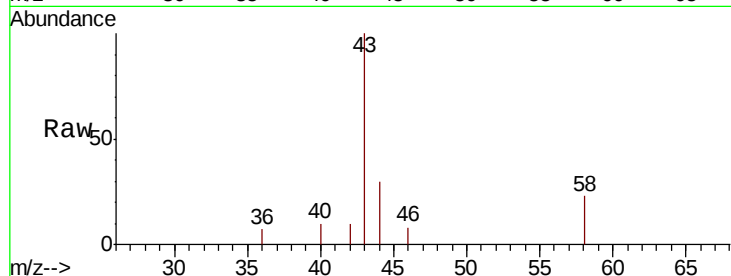
MDL-WATER-01

Tot Ion: 43 Resp: 8551

Ion Ratio Lower Upper

43 100

58 16.3 0.0 56.4



#14

Carbon disulfide

Concen: 0.250 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040283.D

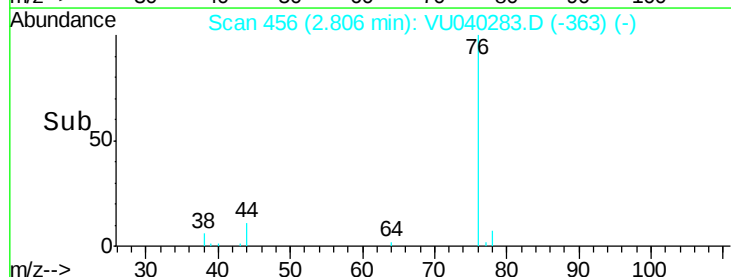
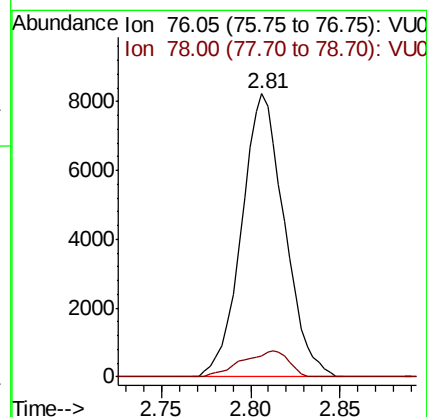
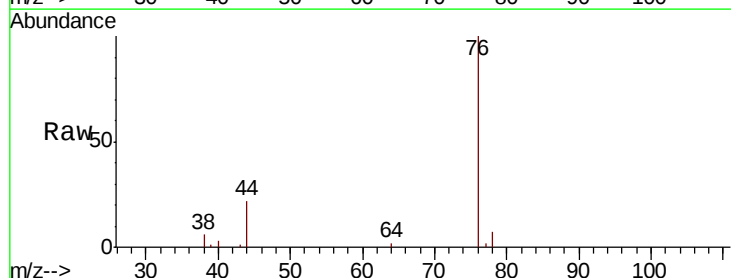
Acq: 24 Sep 2020 20:30

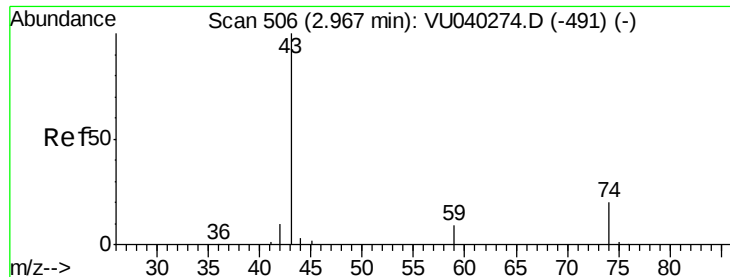
Tgt Ion: 76 Resp: 13802

Ion Ratio Lower Upper

76 100

78 7.4 6.9 10.3





#15

Methvl Acetate

Concen: 0.261 ug/L

RT: 2.97 min Scan# 507

Delta R.T. 0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

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ClientSampleId :

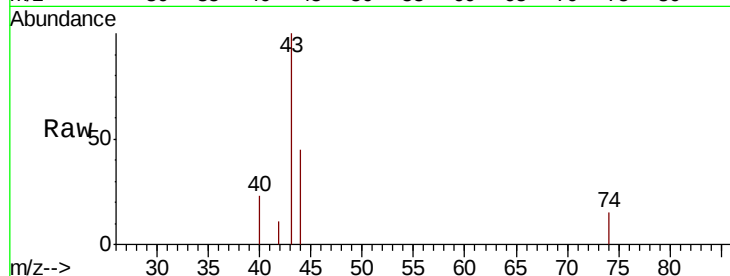
MDL-WATER-01

Tot Ion: 43 Resp: 2532

Ion Ratio Lower Upper

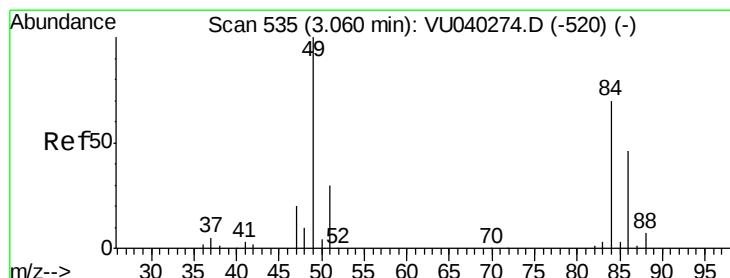
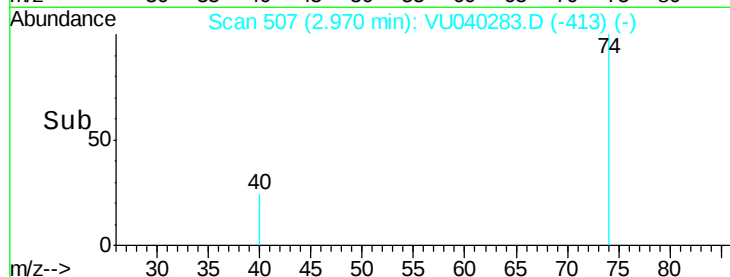
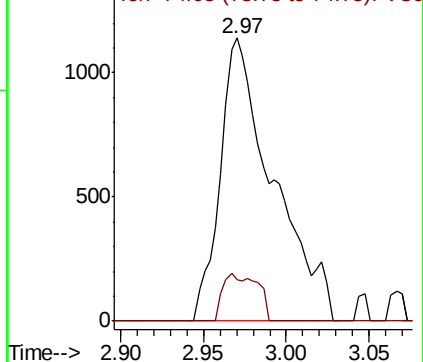
43 100

74 10.8 16.9 25.3#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.394 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

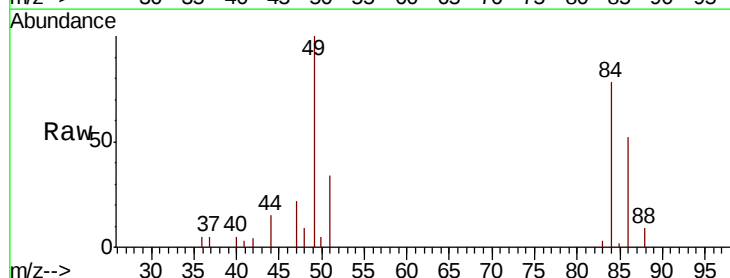
Tgt Ion: 84 Resp: 7795

Ion Ratio Lower Upper

84 100

86 66.3 45.8 85.0

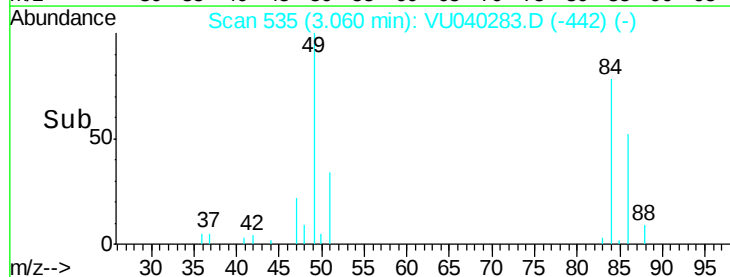
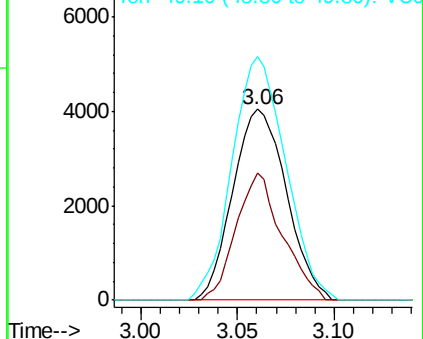
49 127.5 100.4 186.4

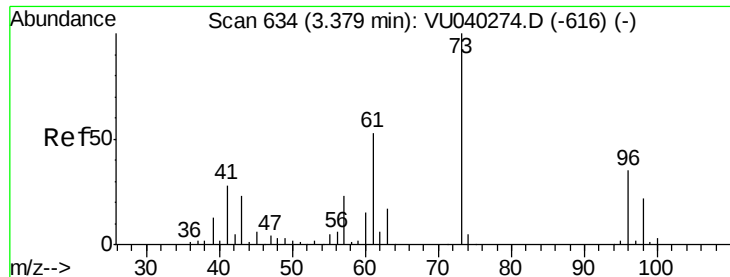


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

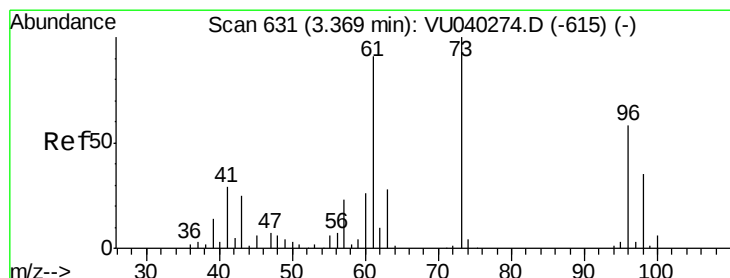
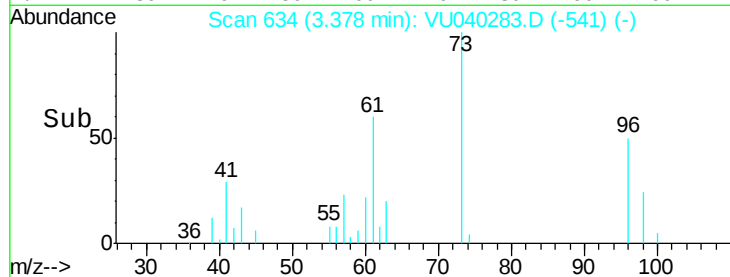
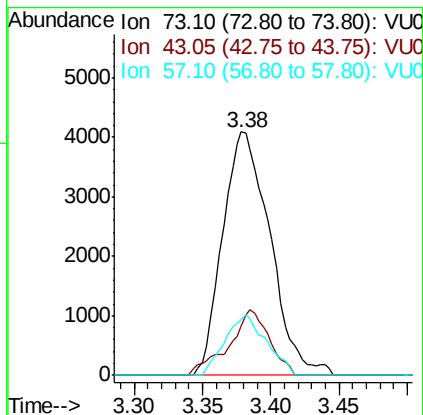
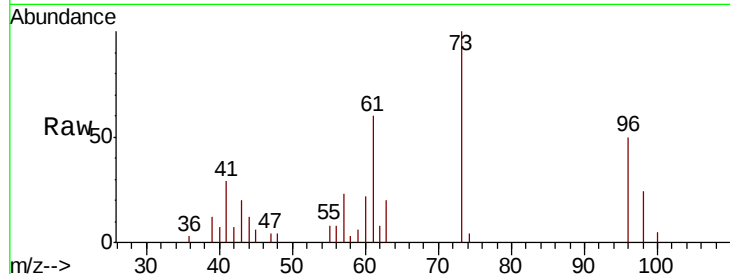




#17
Methvl tert-butvl Ether
Concen: 0.235 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

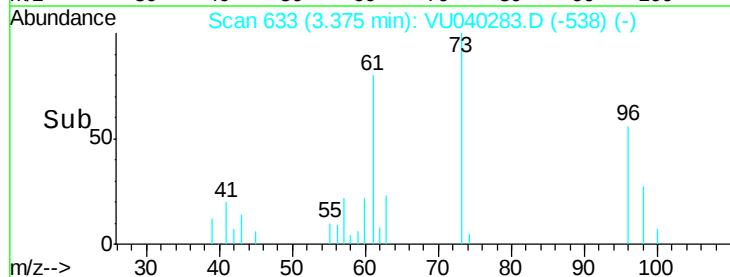
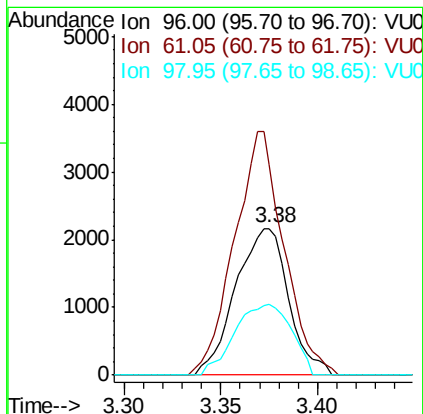
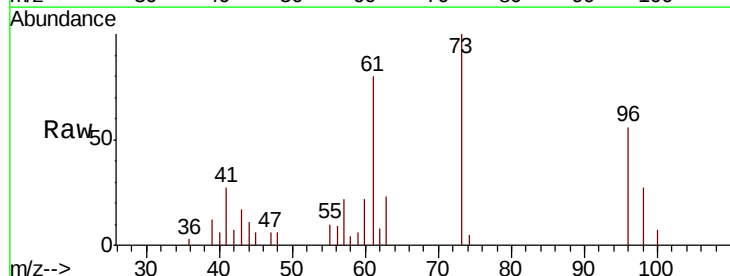
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-01

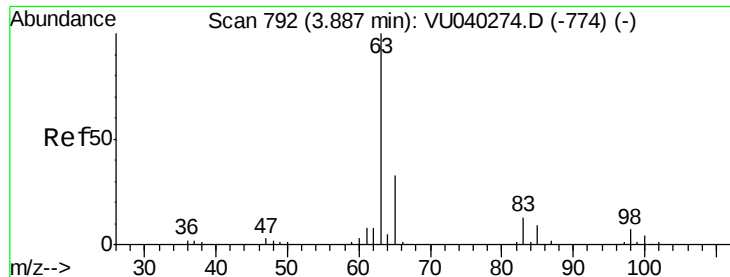
Tot Ion: 73 Resp: 9871
Ion Ratio Lower Upper
73 100
43 22.9 19.0 28.6
57 21.6 18.6 27.8



#18
trans-1,2-Dichloroethene
Concen: 0.247 ug/L
RT: 3.38 min Scan# 633
Delta R.T. 0.01 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Tgt Ion: 96 Resp: 4111
Ion Ratio Lower Upper
96 100
61 142.8 110.7 205.5
98 48.4 43.1 80.1

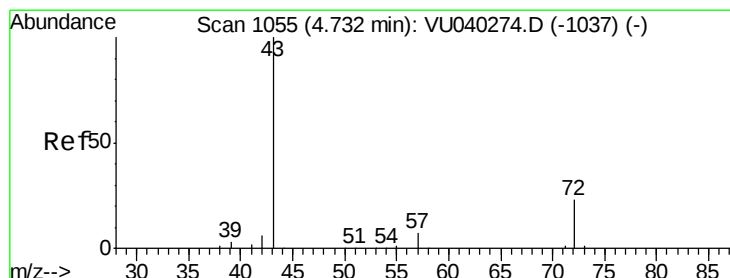
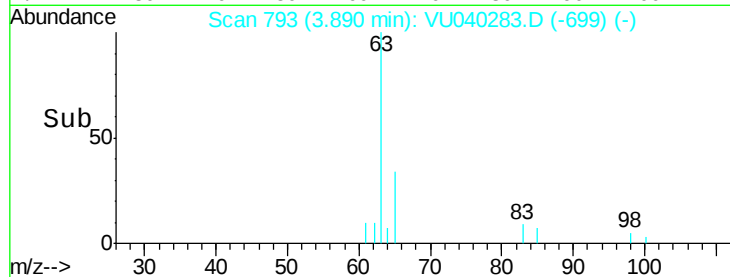
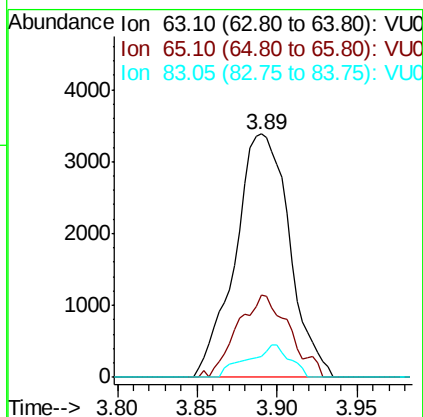
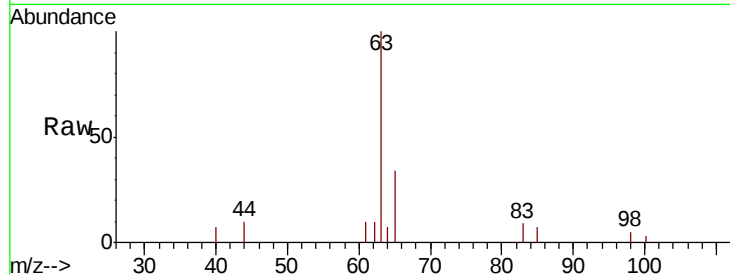




#19
 1,1-Dichloroethane
 Concen: 0.239 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

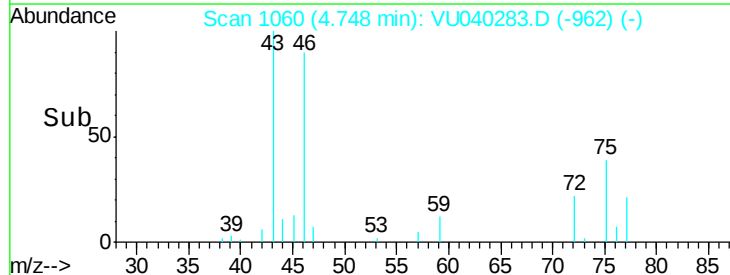
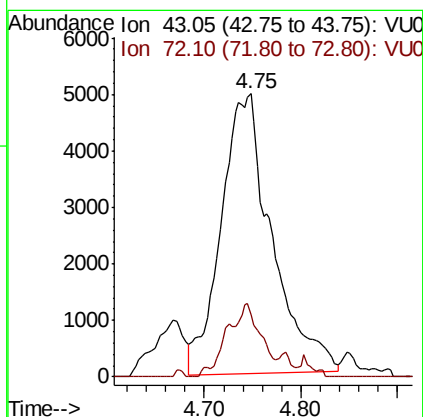
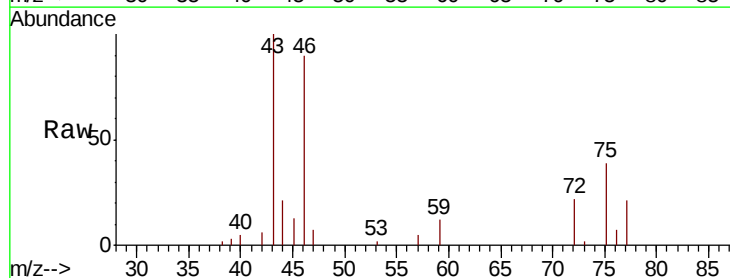
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

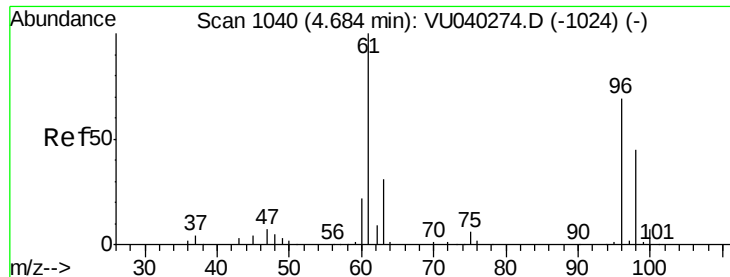
Tot Ion: 63 Resp: 7853
 Ion Ratio Lower Upper
 63 100
 65 33.7 23.0 42.6
 83 8.6 9.0 16.8#



#21
 2-Butanone
 Concen: 2.806 ug/L
 RT: 4.75 min Scan# 1060
 Delta R.T. 0.02 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Tgt Ion: 43 Resp: 18033
 Ion Ratio Lower Upper
 43 100
 72 11.3 11.8 35.3#





#22

cis-1,2-Dichloroethene

Concen: 0.251 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-01

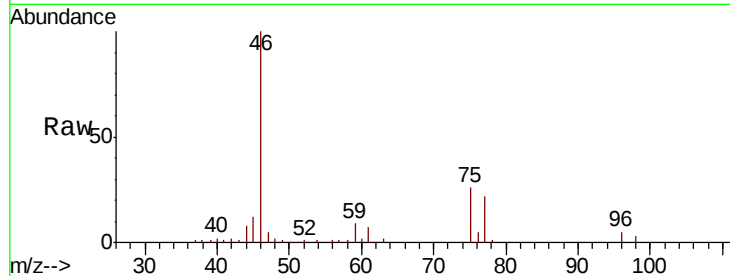
Tot Ion: 96 Resp: 4381

Ion Ratio Lower Upper

96 100

61 131.4 101.9 189.3

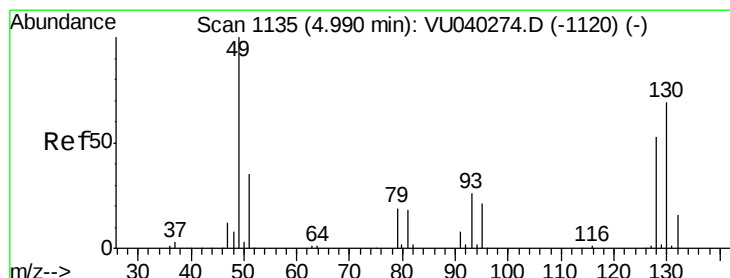
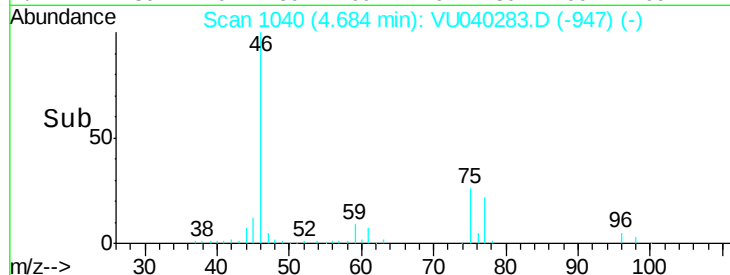
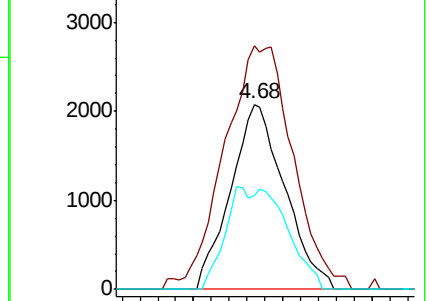
98 50.7 46.0 85.4



Abundance Ion 96.00 (95.70 to 96.70): VU040283.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040283.D (-947) (-)

Ion 98.00 (97.70 to 98.70): VU040283.D (-947) (-)



#23

Bromochloromethane

Concen: 0.243 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.01 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Tgt Ion: 128 Resp: 1987

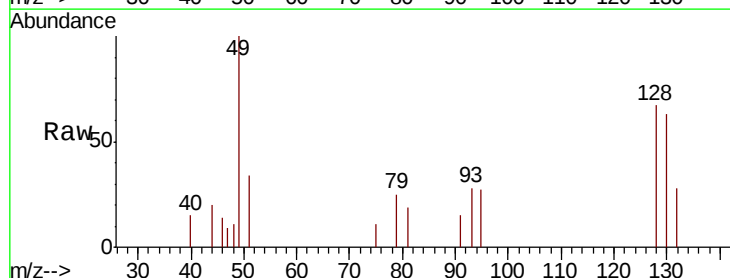
Ion Ratio Lower Upper

128 100

49 148.8 133.0 247.0

130 94.0 91.8 170.6

51 49.9 53.3 79.9#

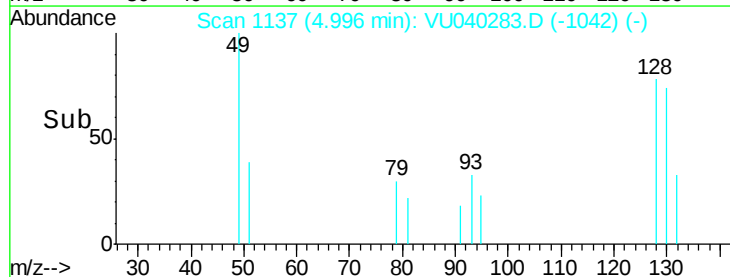
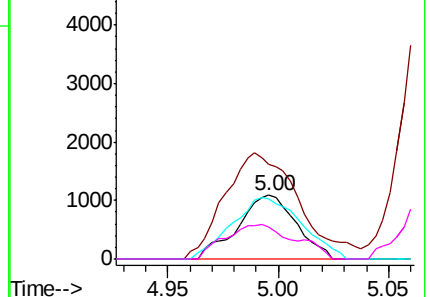


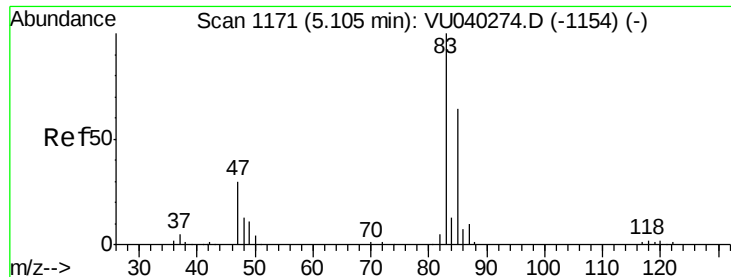
Abundance Ion 127.90 (127.60 to 128.60): VU040283.D (-1042) (-)

Ion 49.10 (48.80 to 49.80): VU040283.D (-1042) (-)

Ion 129.95 (129.65 to 130.65): VU040283.D (-1042) (-)

Ion 51.05 (50.75 to 51.75): VU040283.D (-1042) (-)

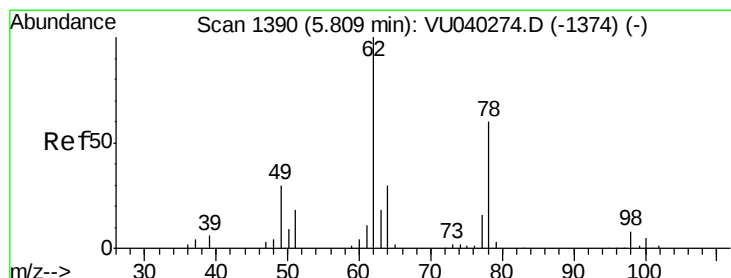
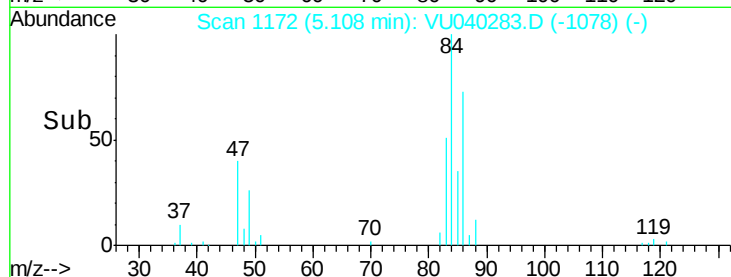
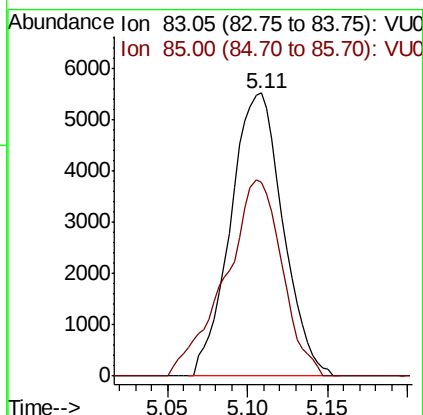
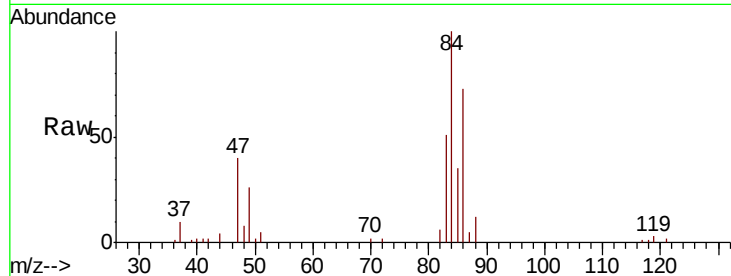




#25
Chloroform
Concen: 0.376 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

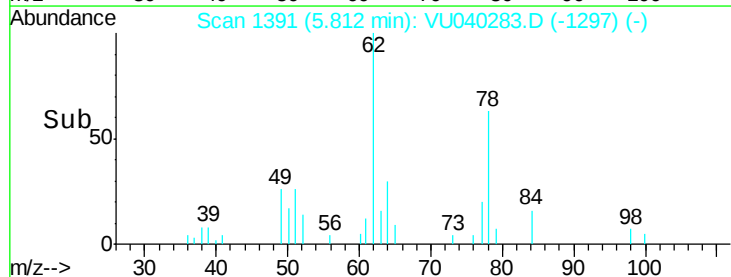
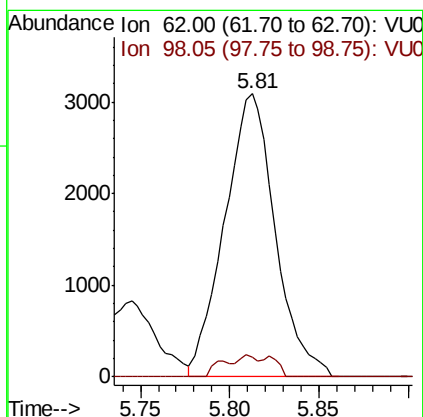
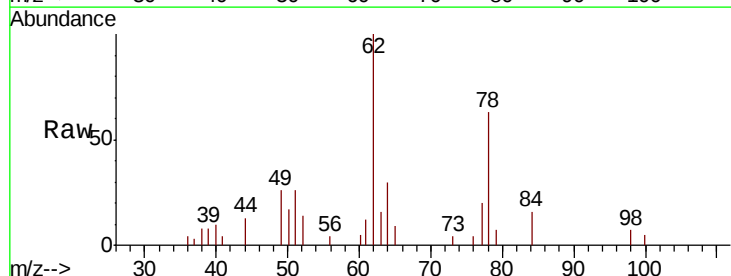
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-01

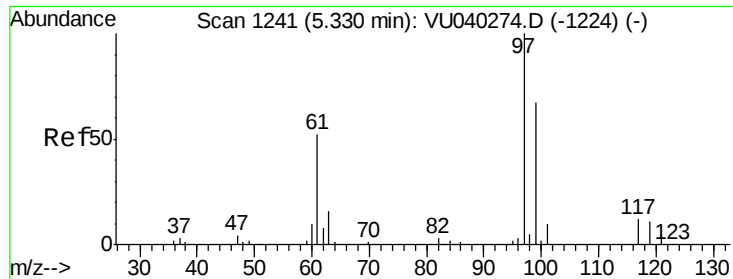
Tot Ion: 83 Resp: 12358
Ion Ratio Lower Upper
83 100
85 68.4 45.2 84.0



#27
1,2-Dichloroethane
Concen: 0.257 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Tgt Ion: 62 Resp: 6087
Ion Ratio Lower Upper
62 100
98 6.9 6.5 9.7

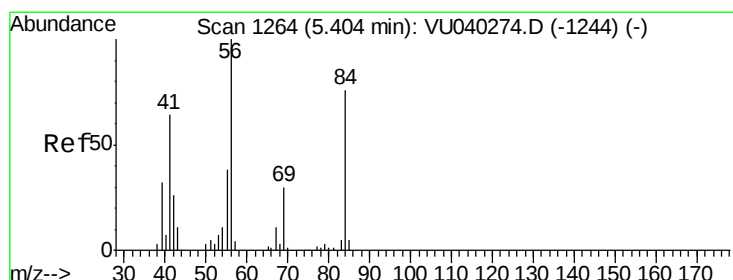
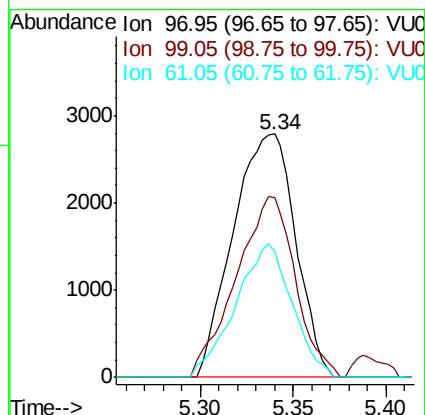
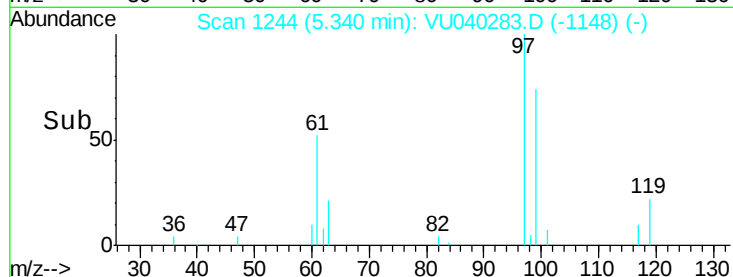
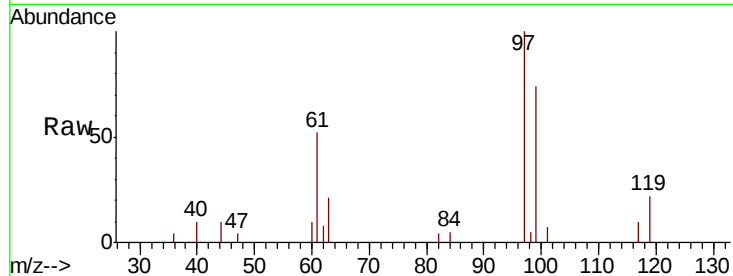




#29
 1,1,1-Trichloroethane
 Concen: 0.228 ug/L
 RT: 5.34 min Scan# 1244
 Delta R.T. 0.01 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

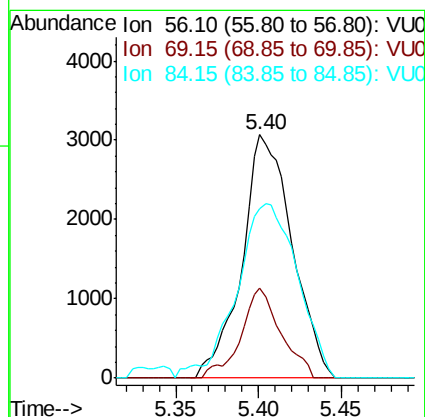
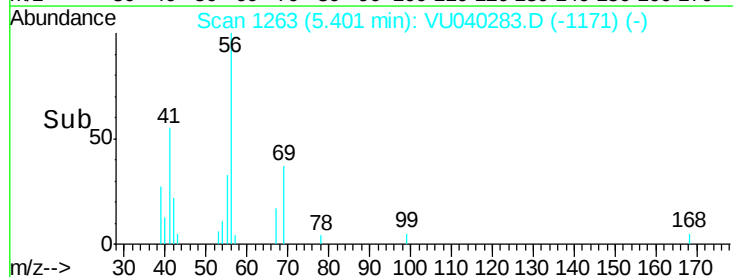
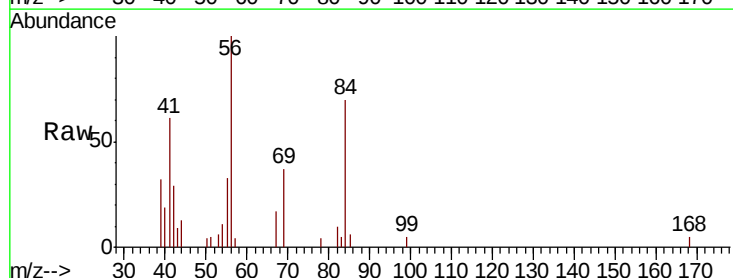
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

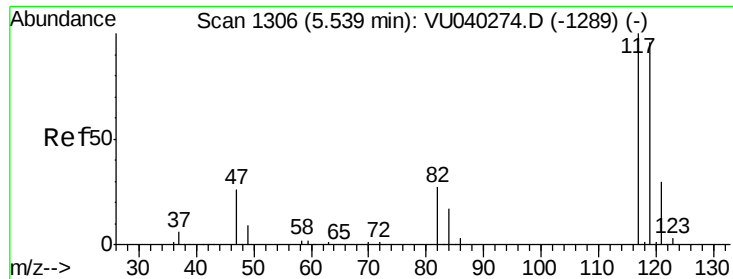
Tot Ion: 97 Resp: 6522
 Ion Ratio Lower Upper
 97 100
 99 70.4 52.1 78.1
 61 49.7 40.2 60.4



#30
 Cyclohexane
 Concen: 0.207 ug/L
 RT: 5.40 min Scan# 1263
 Delta R.T. -0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Tgt Ion: 56 Resp: 6471
 Ion Ratio Lower Upper
 56 100
 69 29.3 23.0 34.6
 84 87.0 63.3 94.9





#31

Carbon tetrachloride

Concen: 0.222 ug/L

RT: 5.55 min Scan# 1308

Delta R.T. 0.01 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

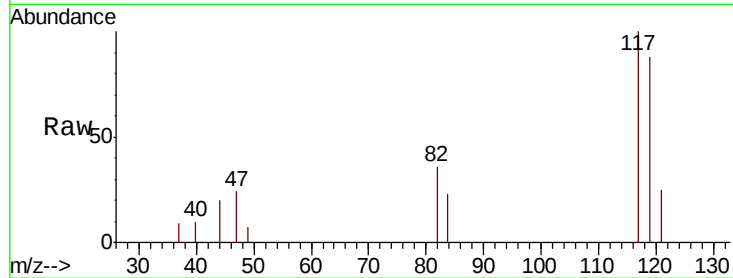
MDL-WATER-01

Tot Ion:117 Resp: 5417

Ion Ratio Lower Upper

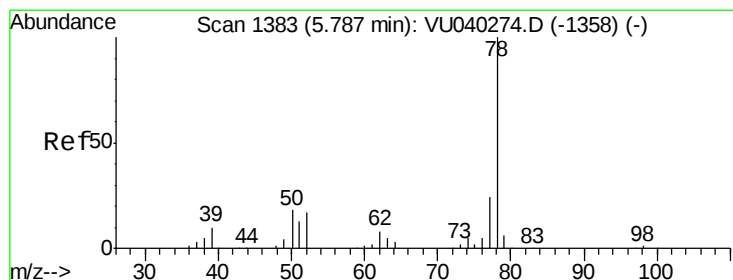
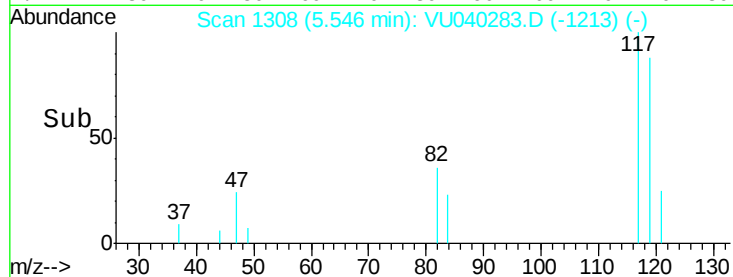
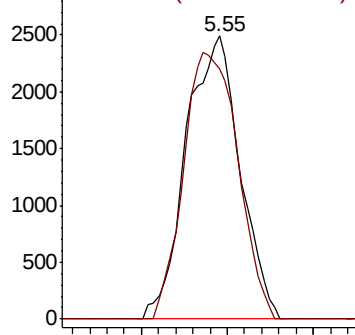
117 100

119 95.0 78.6 117.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.241 ug/L

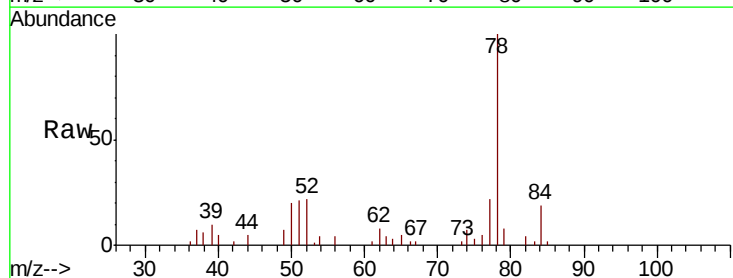
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

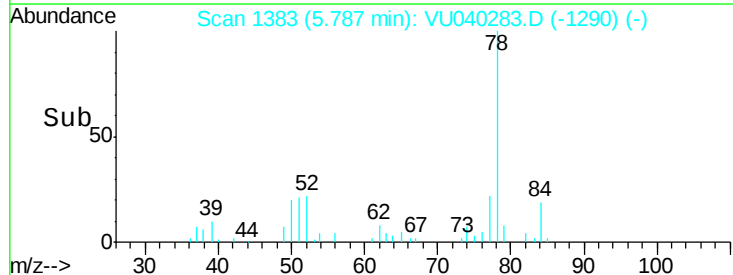
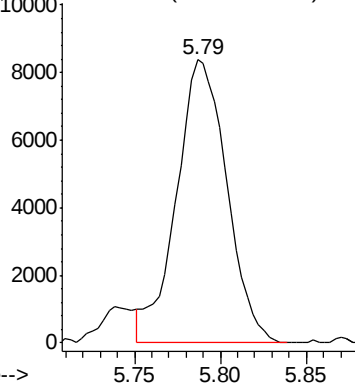
Lab File: VU040283.D

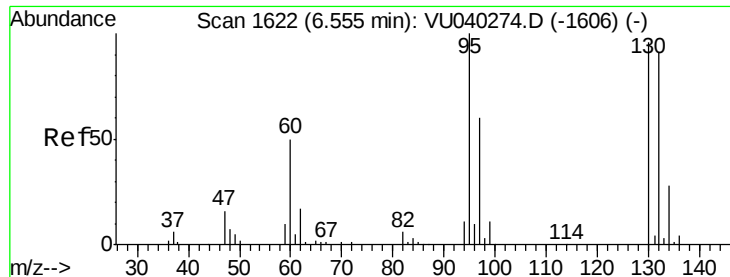
Acq: 24 Sep 2020 20:30

Tgt Ion: 78 Resp: 17048



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.235 ug/L

RT: 6.56 min Scan# 1623

Delta R.T. 0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-01

Tot Ion: 95 Resp: 4314

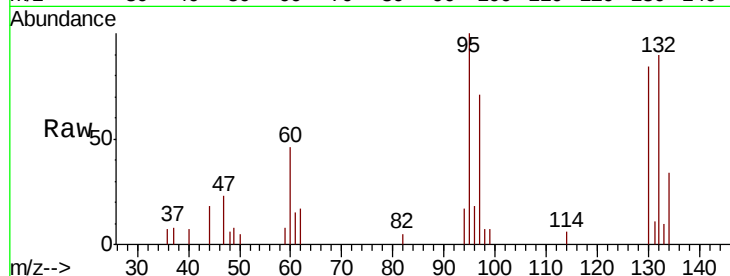
Ion Ratio Lower Upper

95 100

97 71.1 42.1 78.3

132 89.7 63.8 118.4

130 83.6 67.3 125.1

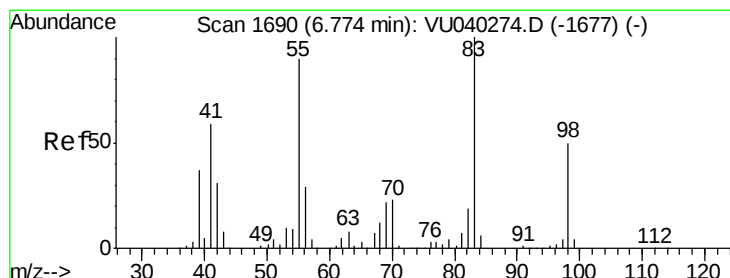
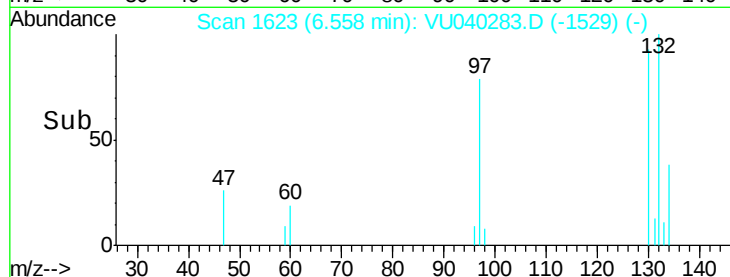
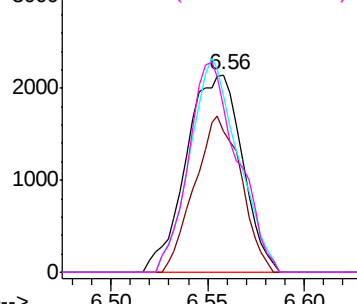


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.203 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

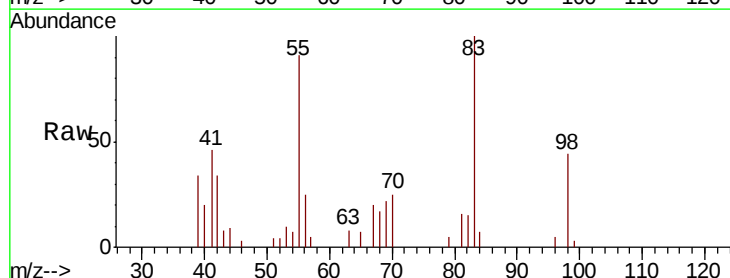
Tgt Ion: 83 Resp: 5840

Ion Ratio Lower Upper

83 100

55 81.8 71.7 107.5

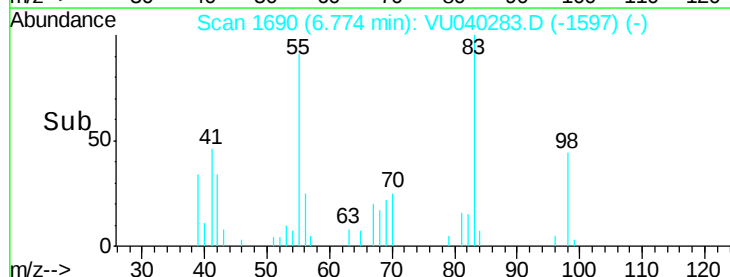
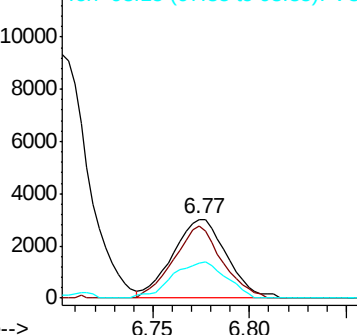
98 45.6 38.6 58.0

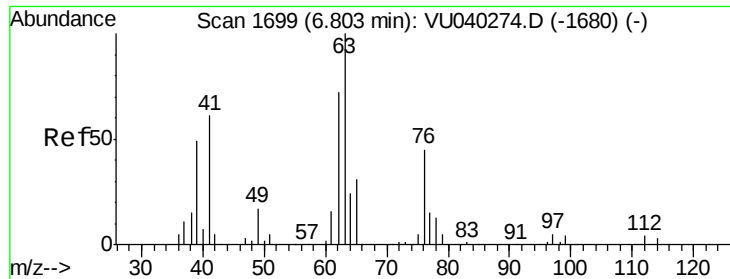


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

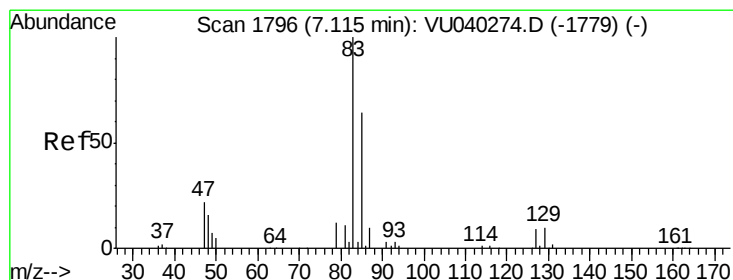
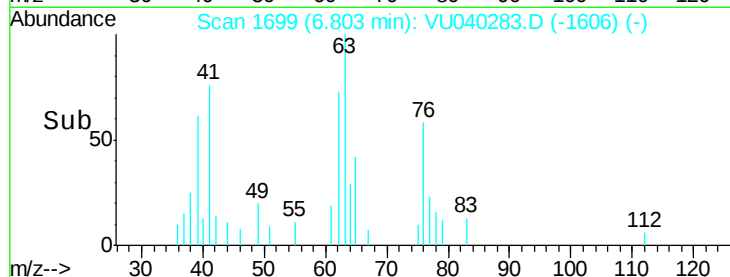
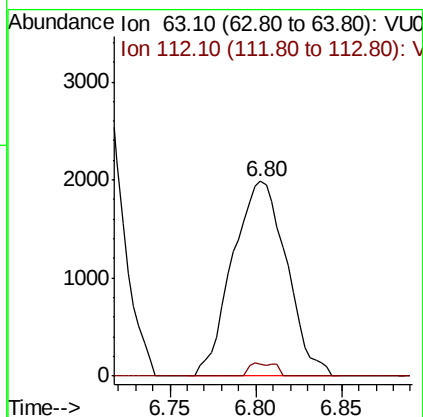
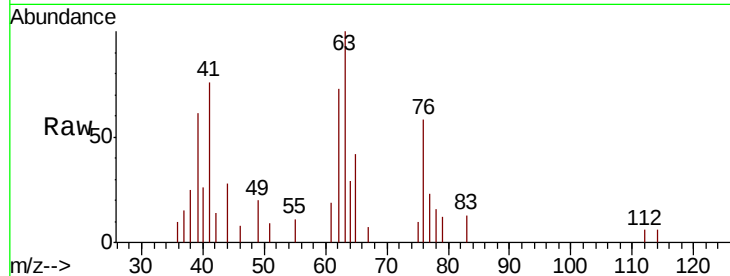




#37
 1,2-Dichloropropane
 Concen: 0.221 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

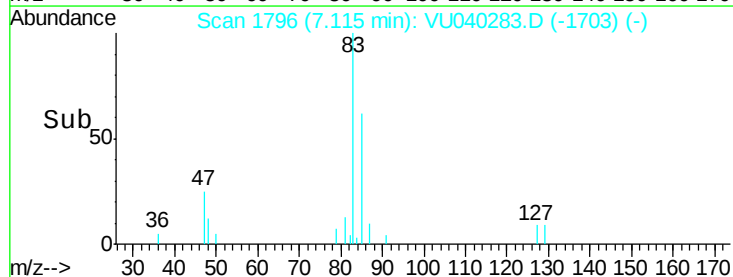
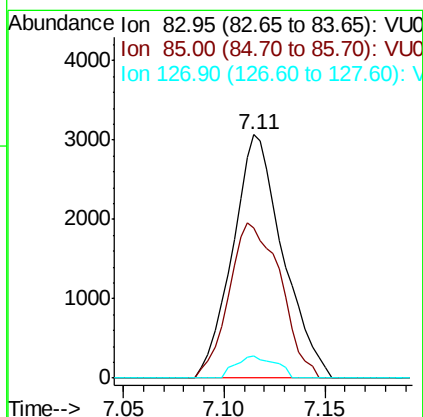
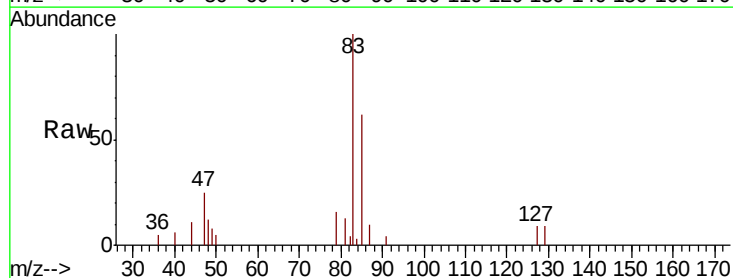
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

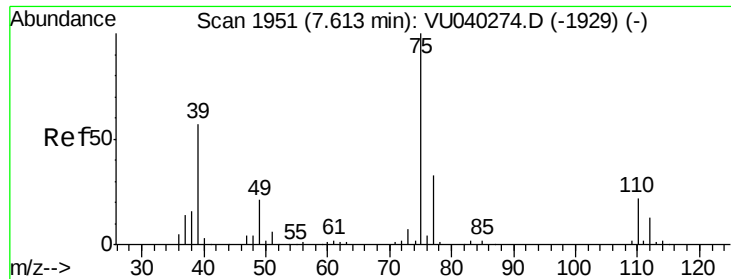
Tot Ion: 63 Resp: 4341
 Ion Ratio Lower Upper
 63 100
 112 3.2 3.5 5.3#



#38
 Bromodichloromethane
 Concen: 0.222 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Tgt Ion: 83 Resp: 5329
 Ion Ratio Lower Upper
 83 100
 85 61.5 44.6 82.8
 127 8.9 6.8 10.2

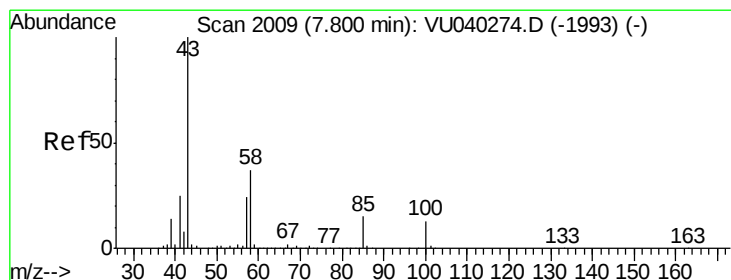
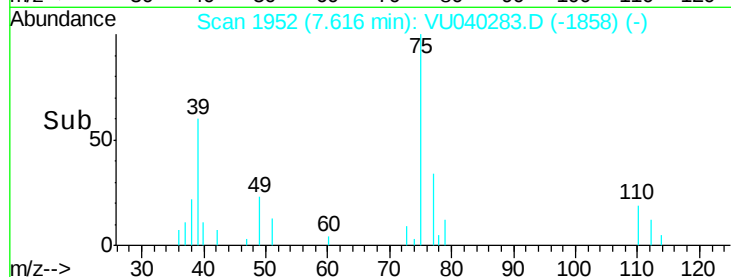
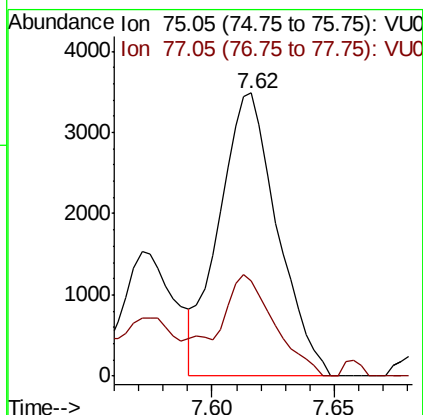
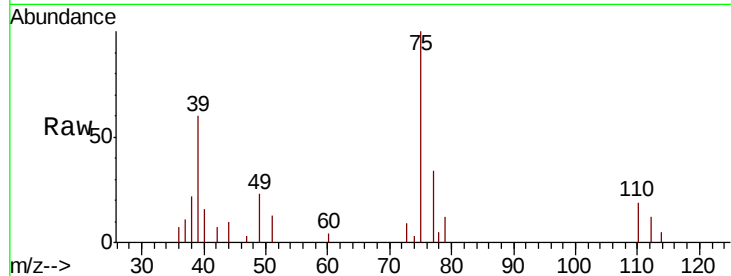




#39
 cis-1,3-Dichloropropene
 Concen: 0.217 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

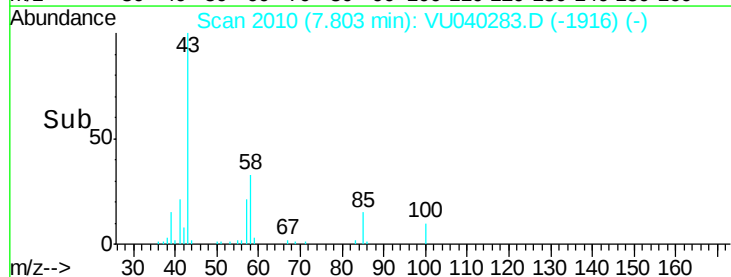
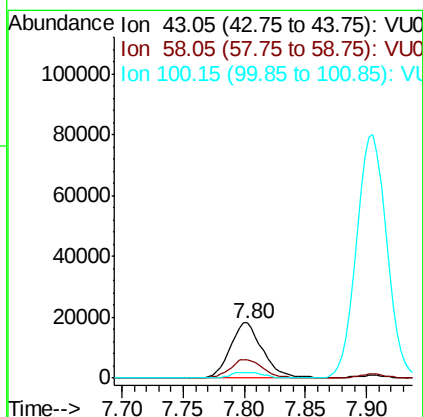
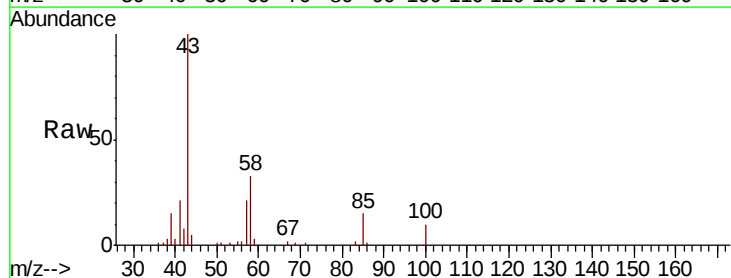
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

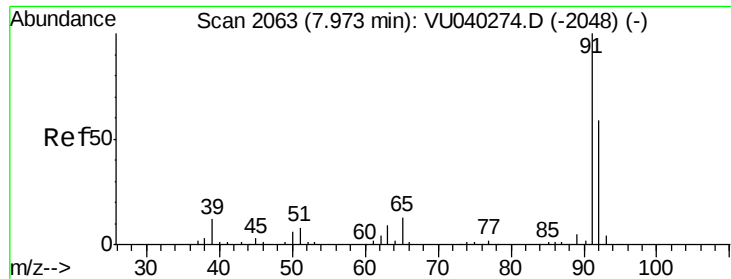
Tot Ion: 75 Resp: 5788
 Ion Ratio Lower Upper
 75 100
 77 33.8 23.4 43.4



#40
 4-Methyl-2-pentanone
 Concen: 2.258 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Tgt Ion: 43 Resp: 33905
 Ion Ratio Lower Upper
 43 100
 58 33.4 28.8 43.2
 100 0.0 10.3 15.5#





#42

Toluene

Concen: 0.228 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

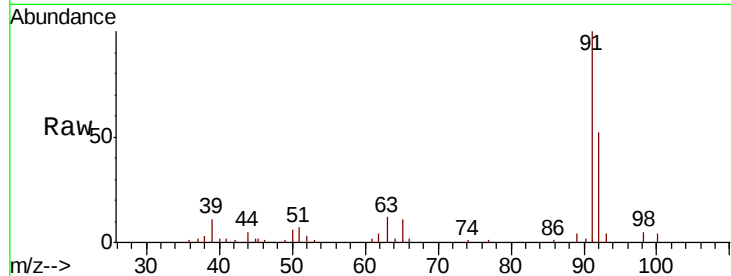
MDL-WATER-01

Tot Ion: 91 Resp: 16262

Ion Ratio Lower Upper

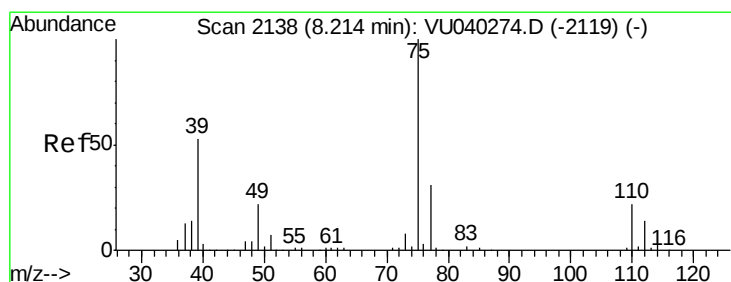
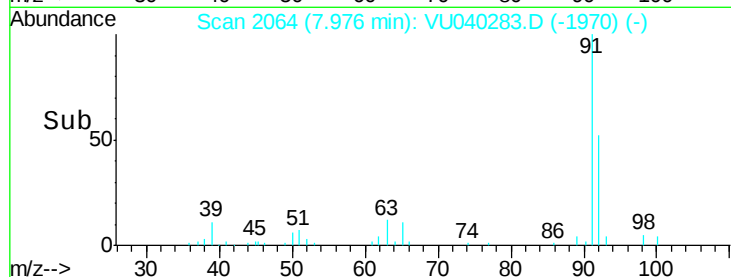
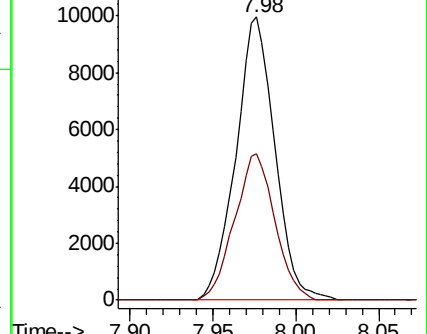
91 100

92 51.9 41.0 76.2



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.303 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040283.D

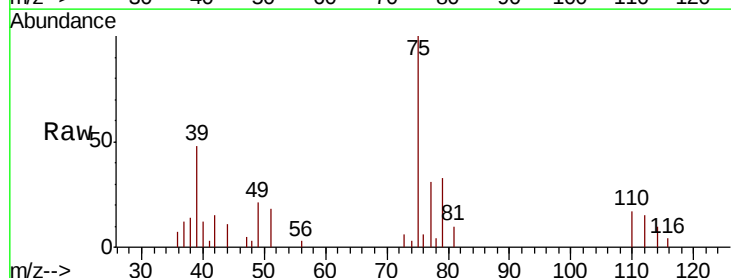
Acq: 24 Sep 2020 20:30

Tgt Ion: 75 Resp: 7498

Ion Ratio Lower Upper

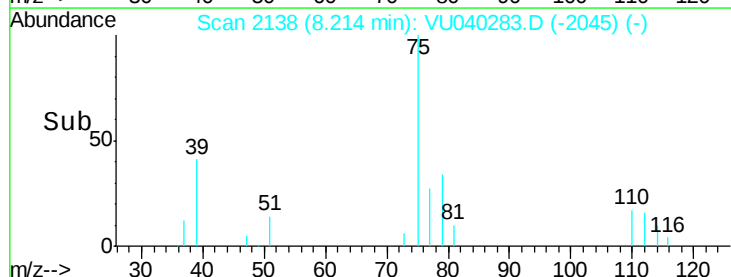
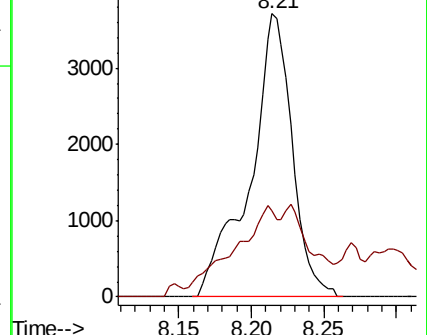
75 100

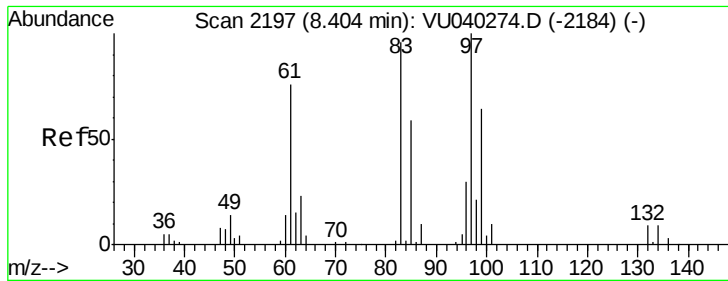
77 30.6 21.6 40.2



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 0.261 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-01

Tot Ion: 97 Resp: 3487

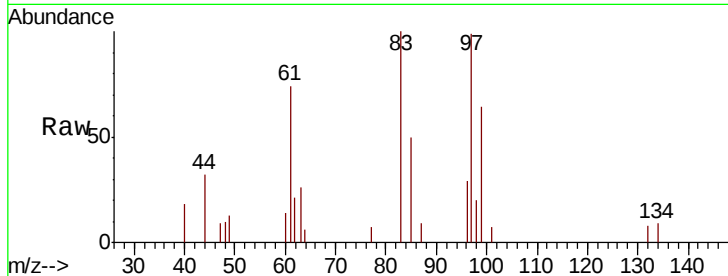
Ion Ratio Lower Upper

97 100

99 64.7 44.9 83.3

83 100.8 67.3 124.9

85 50.3 41.5 77.1

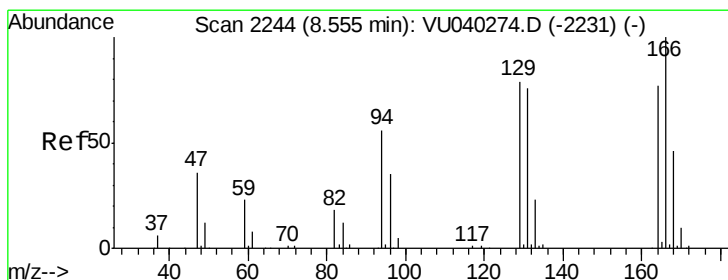
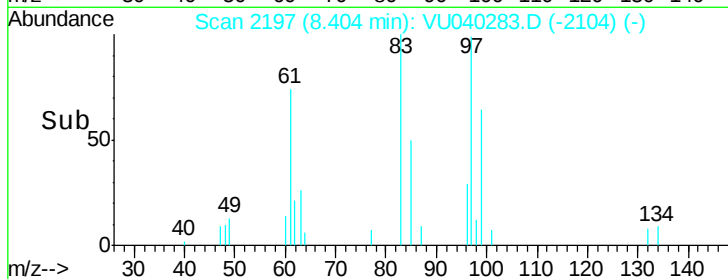
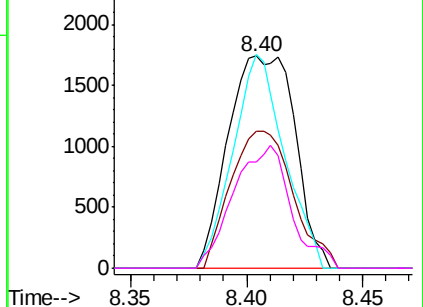


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.225 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Tgt Ion: 164 Resp: 2979

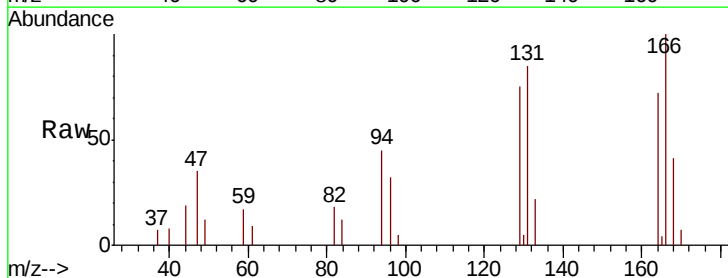
Ion Ratio Lower Upper

164 100

129 103.5 71.5 132.7

131 118.1 69.1 128.3

166 138.7 90.9 168.9

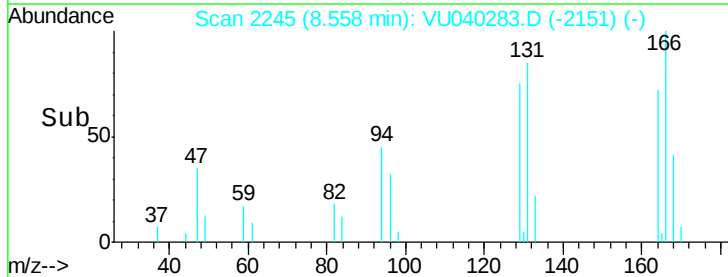
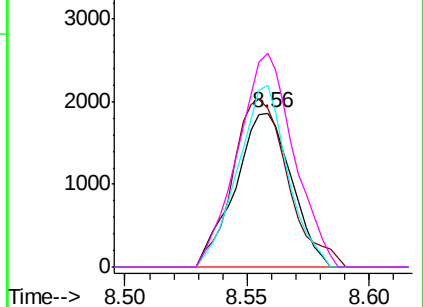


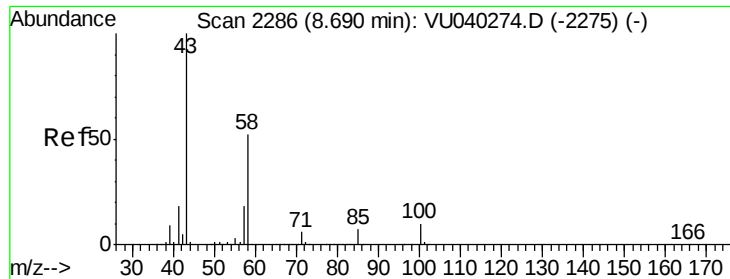
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

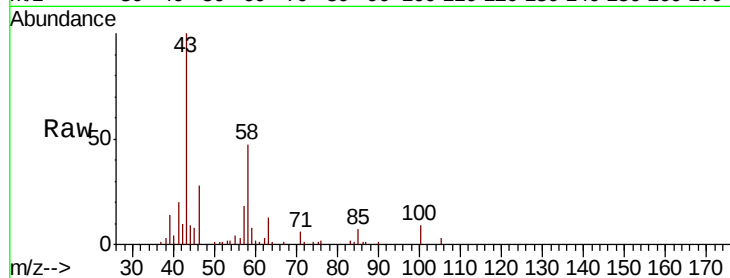




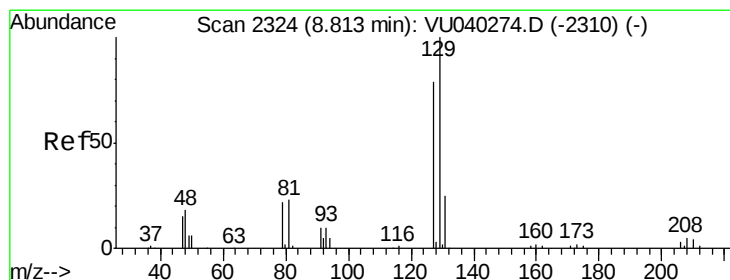
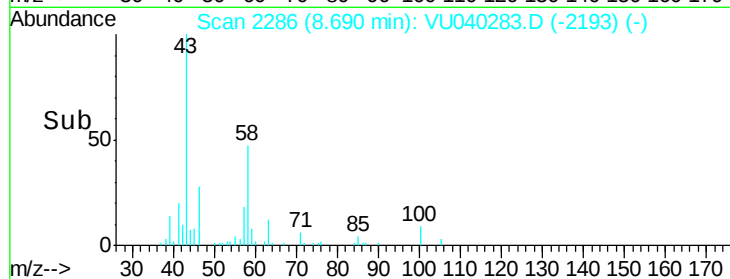
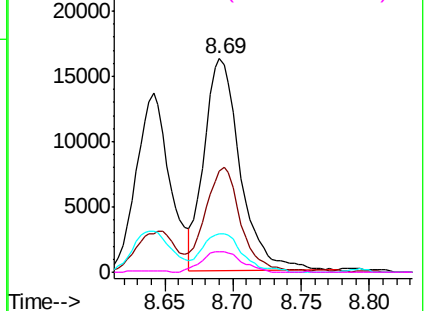
#48
2-Hexanone
Concen: 2.712 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-01

Tot Ion: 43 Resp: 29761
Ion Ratio Lower Upper
43 100
58 48.1 39.9 59.9
57 20.3 13.8 20.8
100 10.8 7.9 11.9

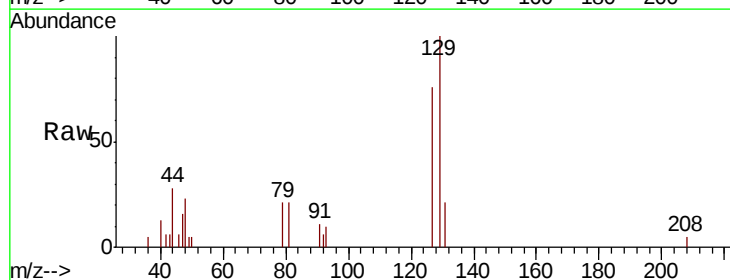


Abundance Ion 43.05 (42.75 to 43.75): VU040283.D (-2193) (-)
Ion 58.05 (57.75 to 58.75): VU040283.D (-2193) (-)
Ion 57.20 (56.90 to 57.90): VU040283.D (-2193) (-)
Ion 100.15 (99.85 to 100.85): VU040283.D (-2193) (-)

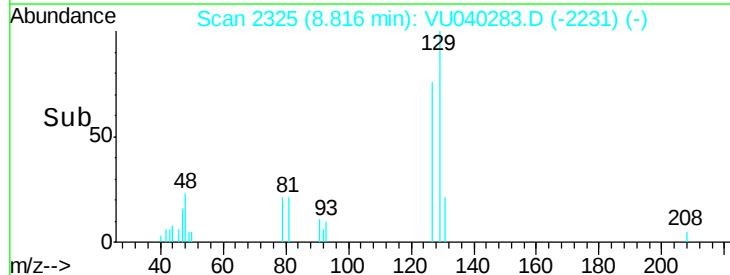
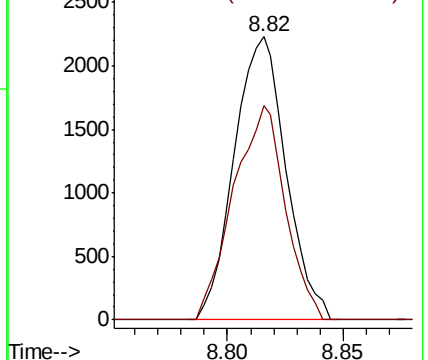


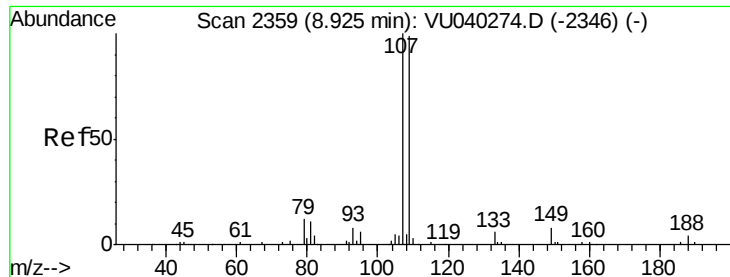
#49
Dibromochloromethane
Concen: 0.224 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Tgt Ion: 129 Resp: 3459
Ion Ratio Lower Upper
129 100
127 75.9 55.0 102.2



Abundance Ion 128.95 (128.65 to 129.65): VU040283.D (-2231) (-)
Ion 126.90 (126.60 to 127.60): VU040283.D (-2231) (-)

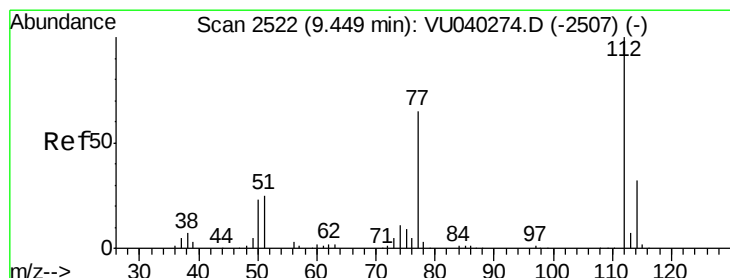
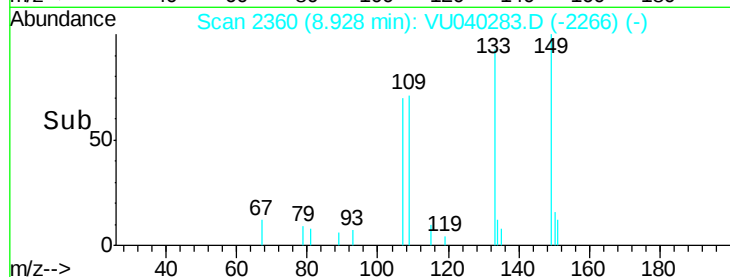
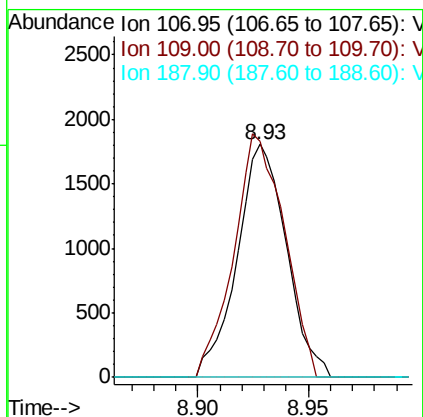
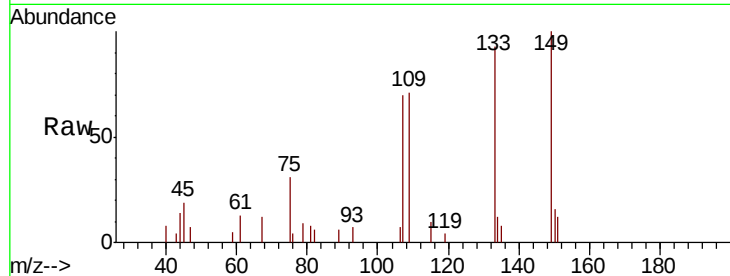




#50
1,2-Dibromoethane
Concen: 0.216 ug/L
RT: 8.93 min Scan# 2360
Delta R.T. 0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

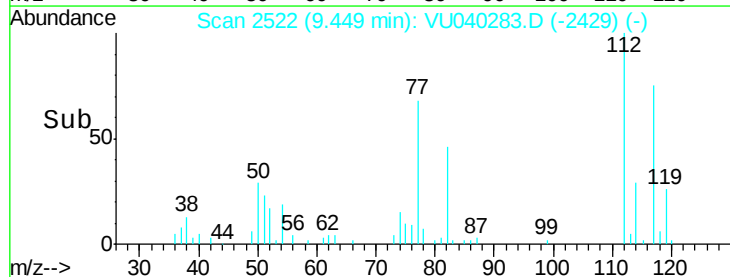
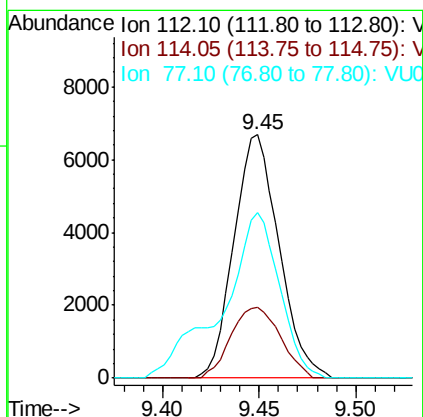
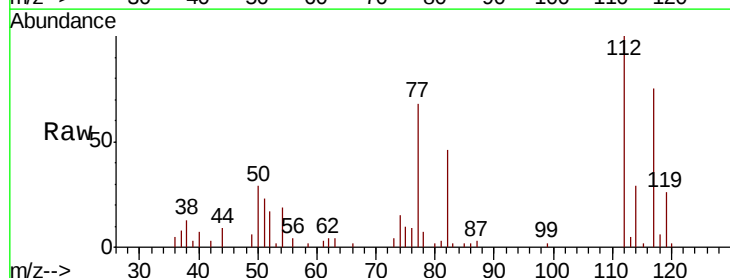
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-01

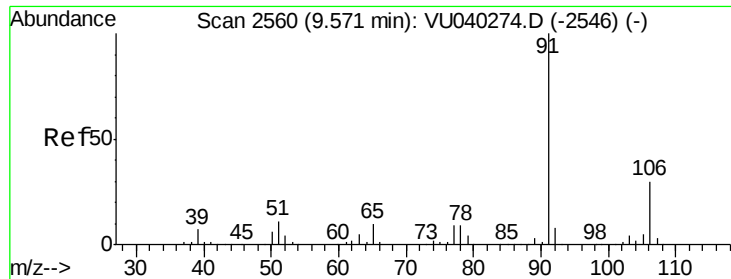
Tot Ion:107 Resp: 2801
Ion Ratio Lower Upper
107 100
109 101.5 69.4 129.0
188 0.0 2.9 4.3#



#51
Chlorobenzene
Concen: 0.236 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Tgt Ion:112 Resp: 10856
Ion Ratio Lower Upper
112 100
114 28.9 22.7 42.3
77 68.2 52.0 78.0





#52

Ethylbenzene

Concen: 0.227 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

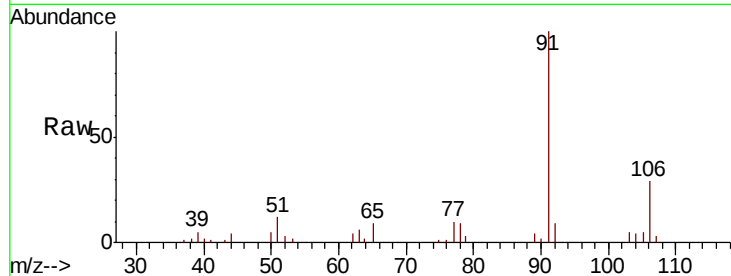
MDL-WATER-01

Tot Ion: 91 Resp: 17920

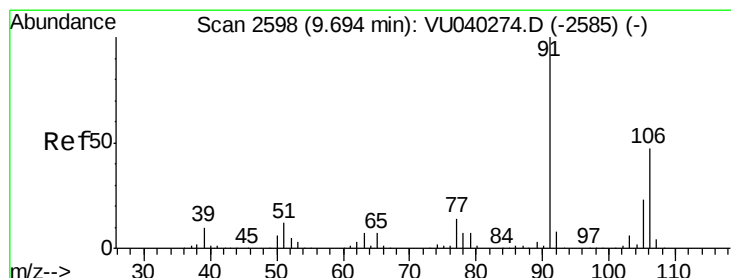
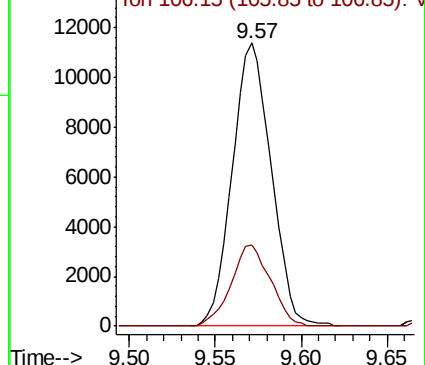
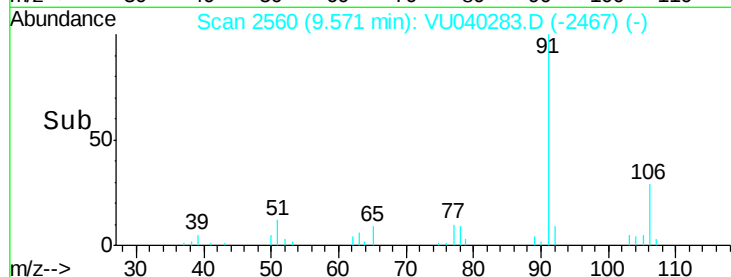
Ion Ratio Lower Upper

91 100

106 28.6 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VU040283.D (-2467) (-)



#53

m,p-Xylene

Concen: 0.207 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040283.D

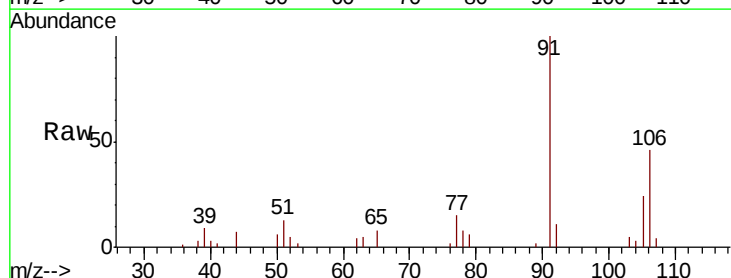
Acq: 24 Sep 2020 20:30

Tgt Ion: 106 Resp: 5890

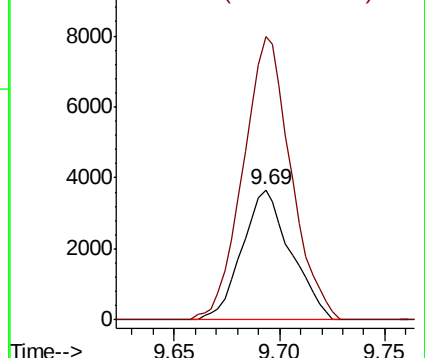
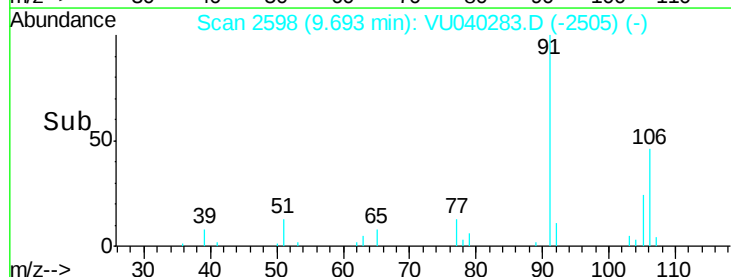
Ion Ratio Lower Upper

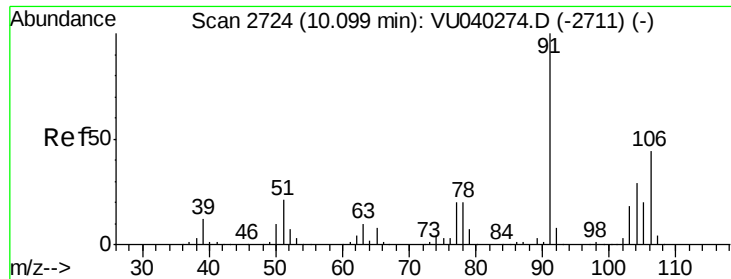
106 100

91 217.1 150.4 279.2



Abundance Ion 106.15 (105.85 to 106.85): VU040283.D (-2505) (-)

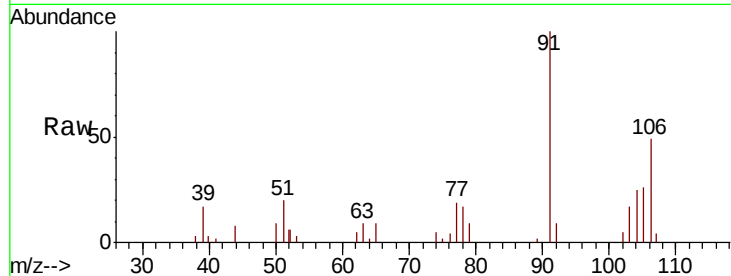




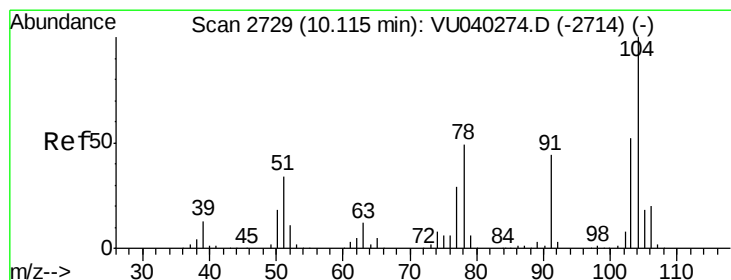
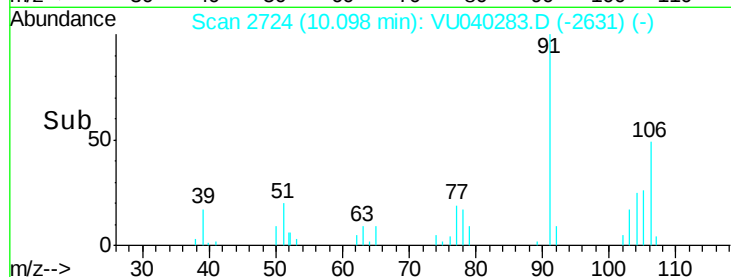
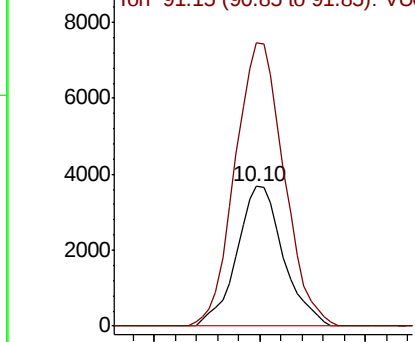
#54
o-Xylene
Concen: 0.206 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-01

Tot Ion:106 Resp: 5635
Ion Ratio Lower Upper
106 100
91 202.6 160.5 298.1

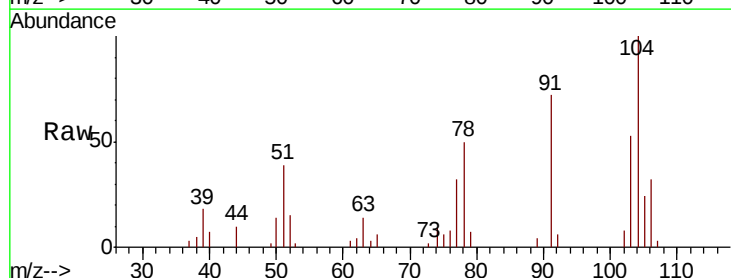


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

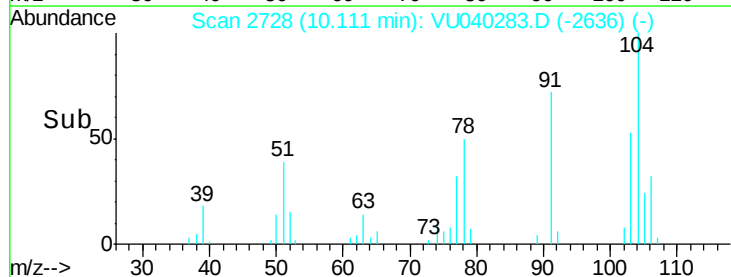
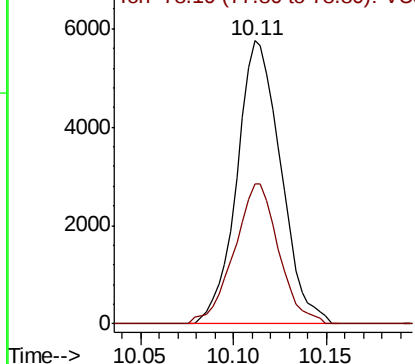


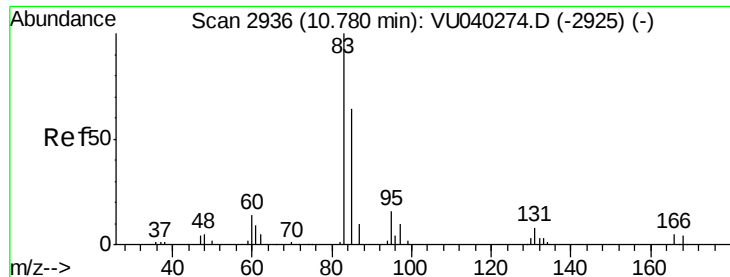
#55
Styrene
Concen: 0.200 ug/L
RT: 10.11 min Scan# 2728
Delta R.T. -0.00 min
Lab File: VU040283.D
Acq: 24 Sep 2020 20:30

Tgt Ion:104 Resp: 9460
Ion Ratio Lower Upper
104 100
78 49.5 34.6 64.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

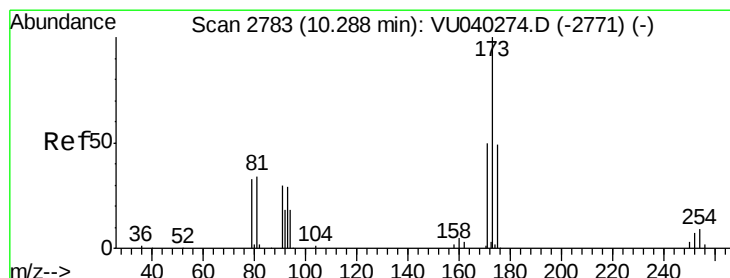
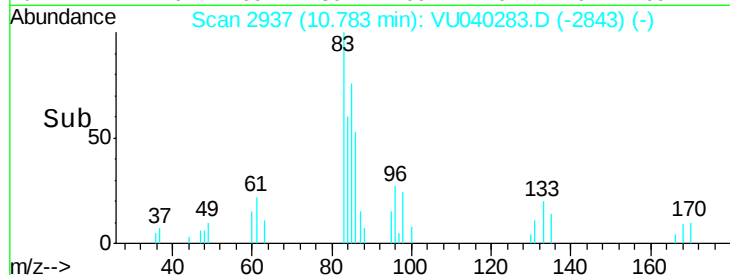
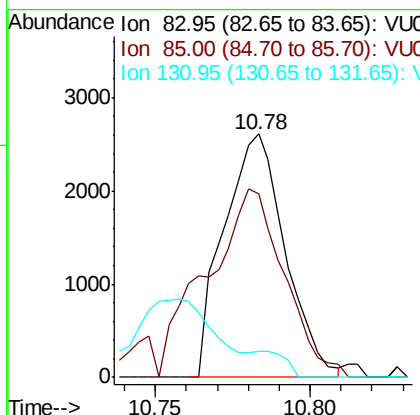
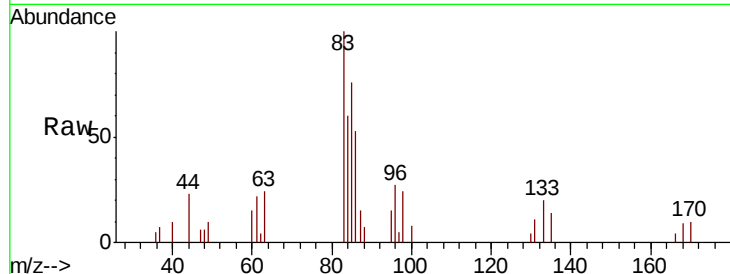




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.203 ug/L
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

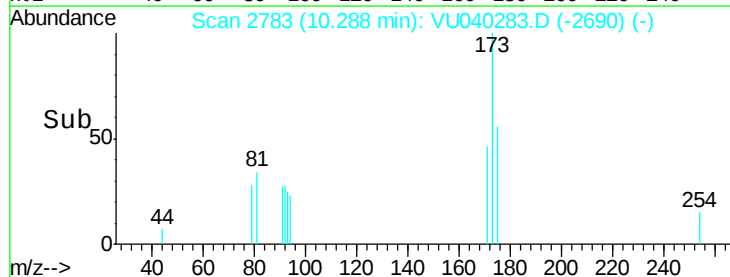
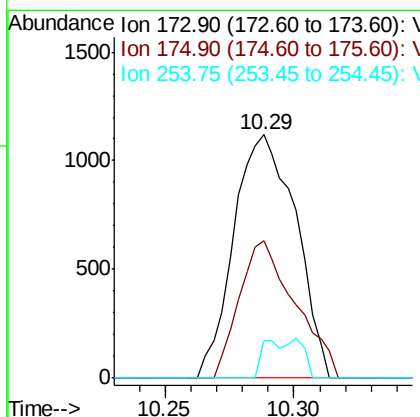
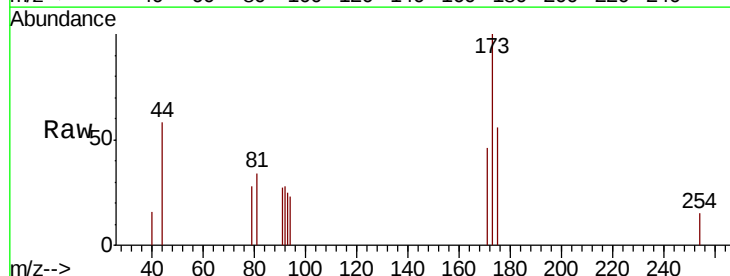
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

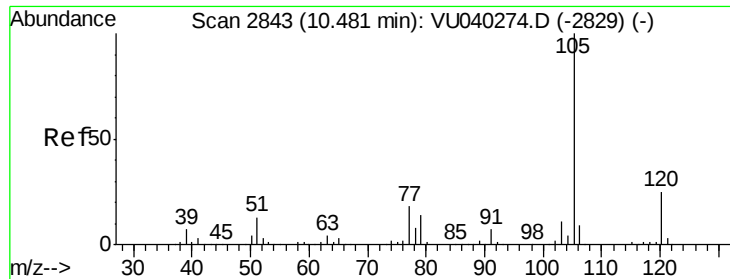
Tot Ion: 83 Resp: 3592
 Ion Ratio Lower Upper
 83 100
 85 75.5 45.5 84.5
 131 10.8 7.4 11.2



#59
 Bromoform
 Concen: 0.245 ug/L
 RT: 10.29 min Scan# 2783
 Delta R.T. -0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Tgt Ion: 173 Resp: 1878
 Ion Ratio Lower Upper
 173 100
 175 50.7 39.0 58.6
 254 5.0 7.1 10.7#





#60

Isopropylbenzene

Concen: 0.212 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-01

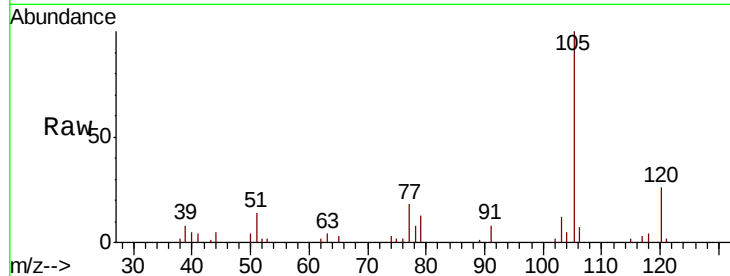
Tot Ion:105 Resp: 13982

Ion Ratio Lower Upper

105 100

120 26.2 20.6 31.0

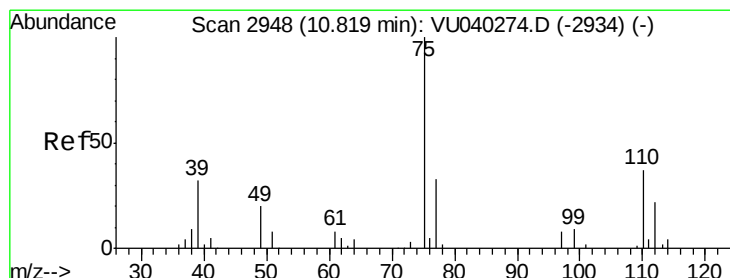
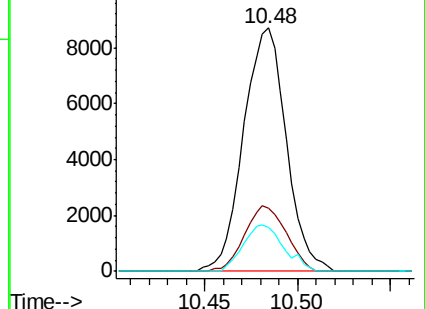
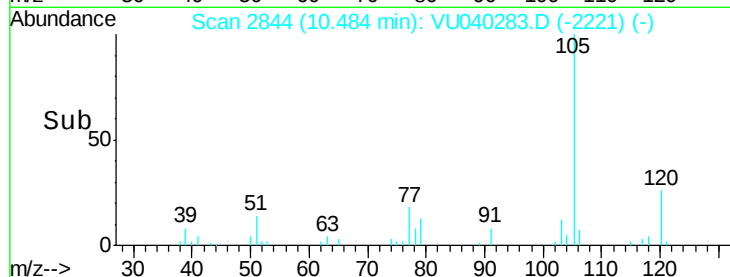
77 18.0 14.2 21.2



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: 0.253 ug/L

RT: 10.82 min Scan# 2948

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

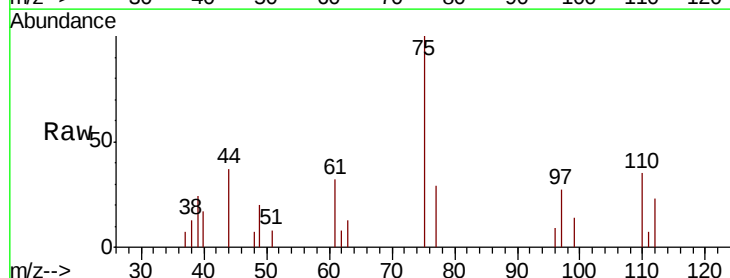
Tgt Ion: 75 Resp: 3100

Ion Ratio Lower Upper

75 100

110 39.1 29.3 43.9

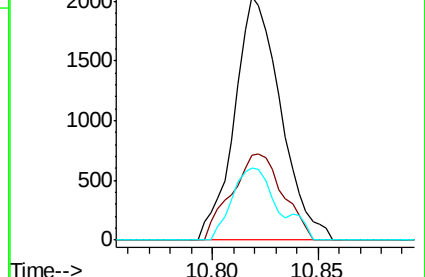
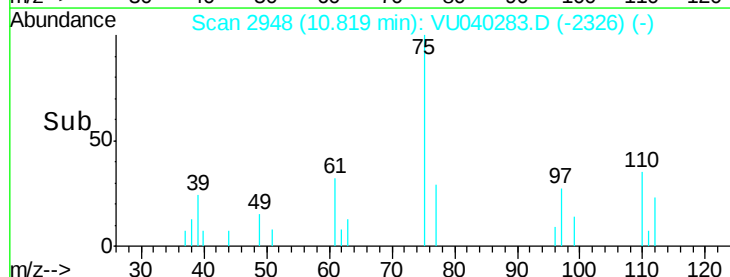
77 29.2 25.9 38.9

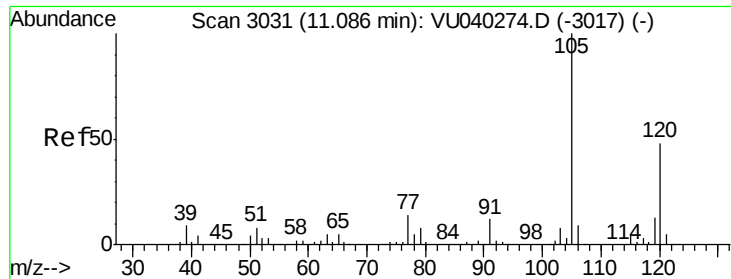


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): V





#62

1,3,5-Trimethylbenzene

Concen: 0.209 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

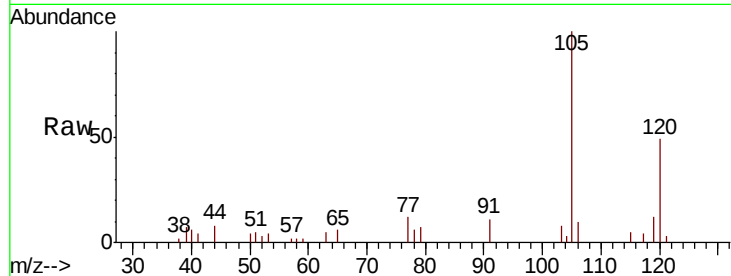
MDL-WATER-01

Tot Ion:105 Resp: 11159

Ion Ratio Lower Upper

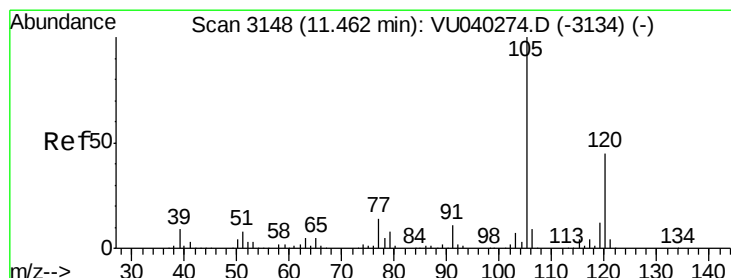
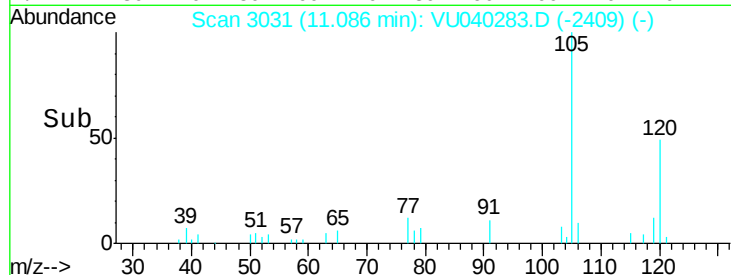
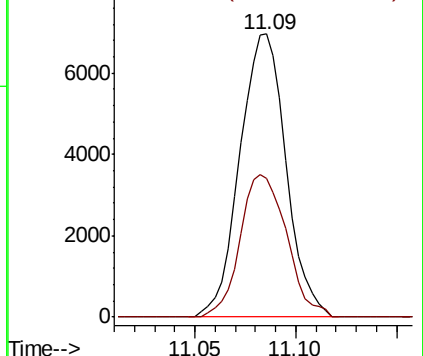
105 100

120 50.6 37.8 56.8



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: 0.187 ug/L

RT: 11.46 min Scan# 3148

Delta R.T. -0.00 min

Lab File: VU040283.D

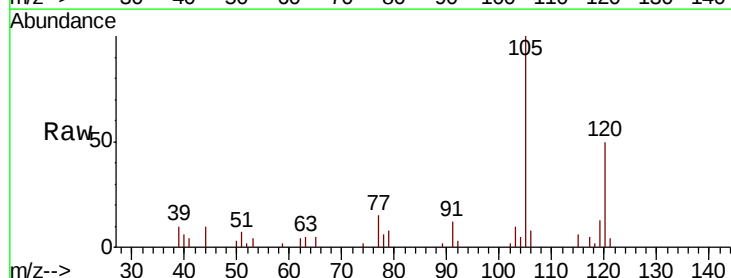
Acq: 24 Sep 2020 20:30

Tgt Ion:105 Resp: 10095

Ion Ratio Lower Upper

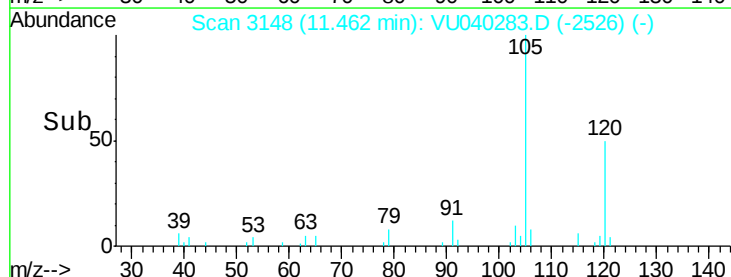
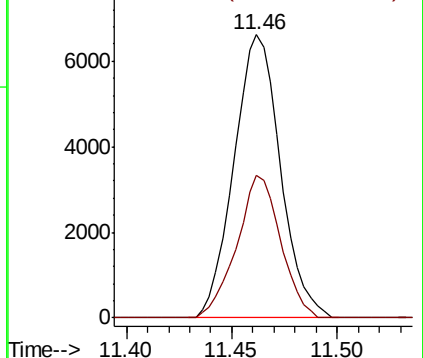
105 100

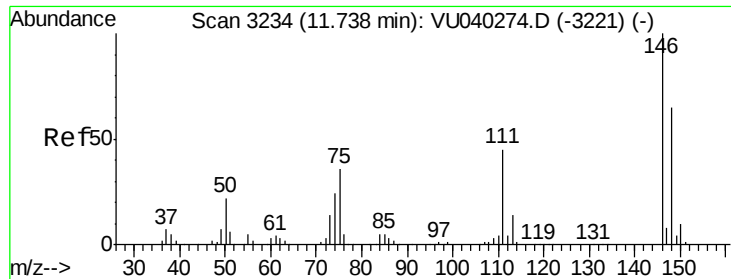
120 47.4 36.0 54.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

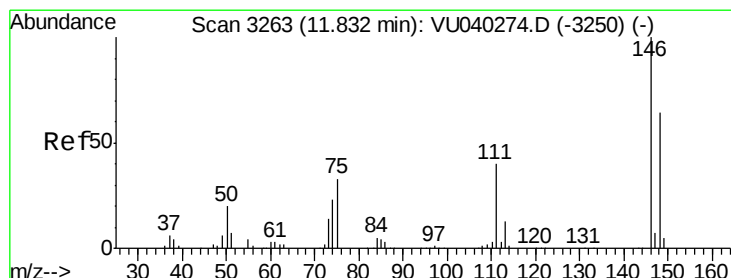
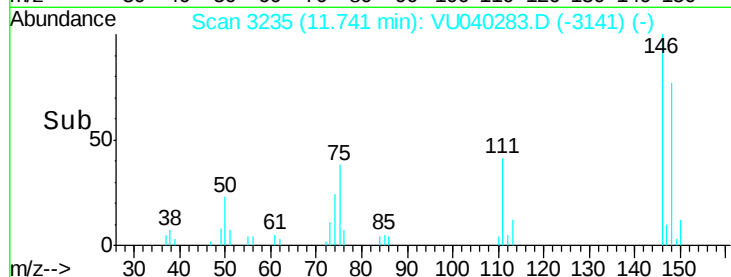
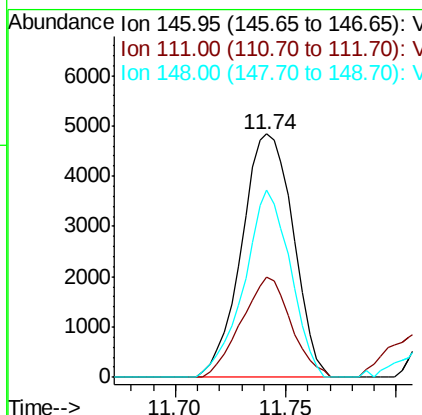
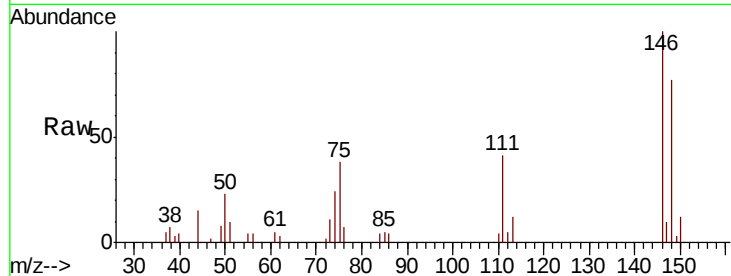




#64
 1,3-Dichlorobenzene
 Concen: 0.241 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

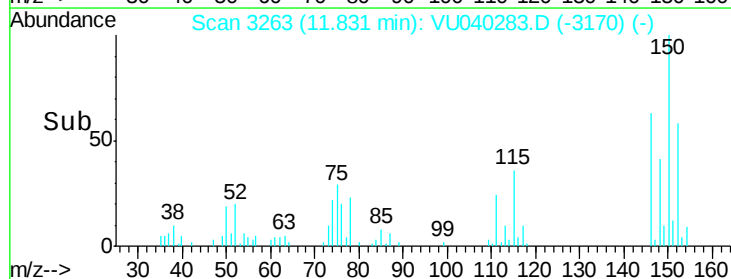
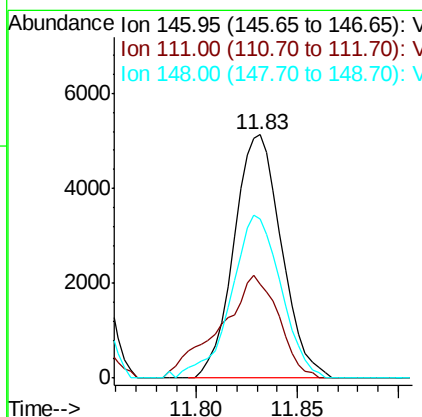
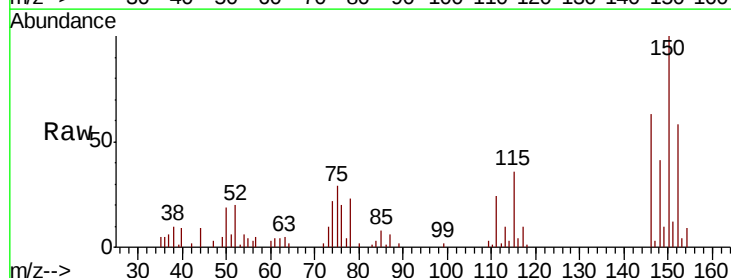
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

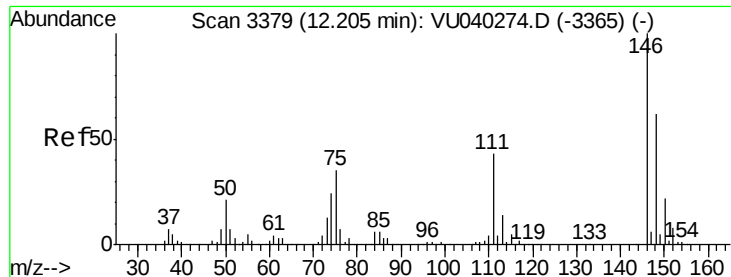
Tot Ion:146 Resp: 7875
 Ion Ratio Lower Upper
 146 100
 111 41.0 31.6 58.8
 148 76.7 45.1 83.9



#65
 1,4-Dichlorobenzene
 Concen: 0.250 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Tgt Ion:146 Resp: 8435
 Ion Ratio Lower Upper
 146 100
 111 38.5 28.2 52.4
 148 65.2 45.2 84.0





#67

1,2-Dichlorobenzene

Concen: 0.237 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-01

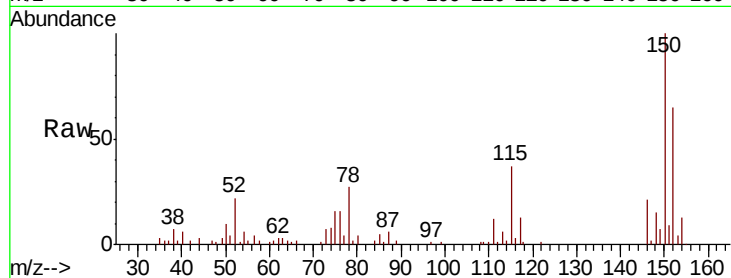
Tot Ion:146 Resp: 7364

Ion Ratio Lower Upper

146 100

111 56.7 34.2 51.4#

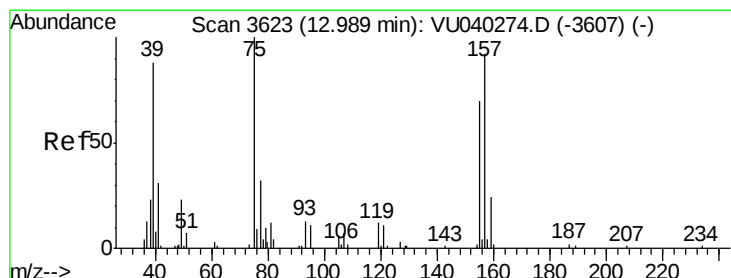
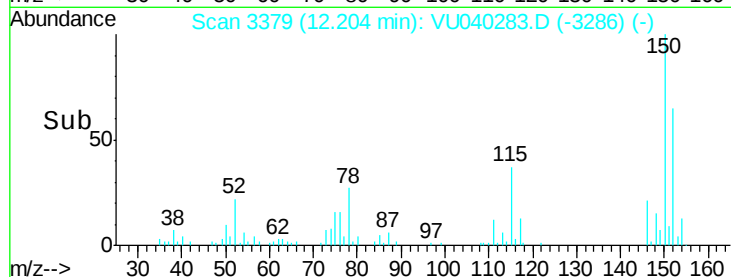
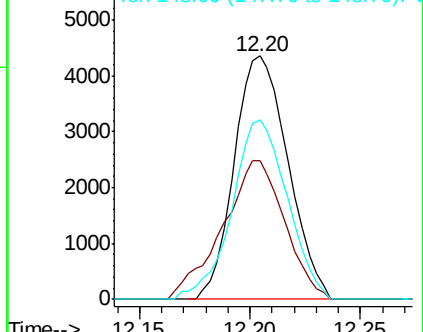
148 73.5 49.4 74.2



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



#68

1,2-Dibromo-3-chloropropane

Concen: 0.264 ug/L

RT: 12.99 min Scan# 3622

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

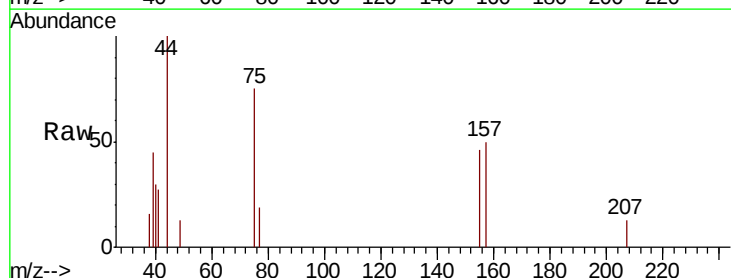
Tgt Ion: 75 Resp: 758

Ion Ratio Lower Upper

75 100

155 60.8 56.3 84.5

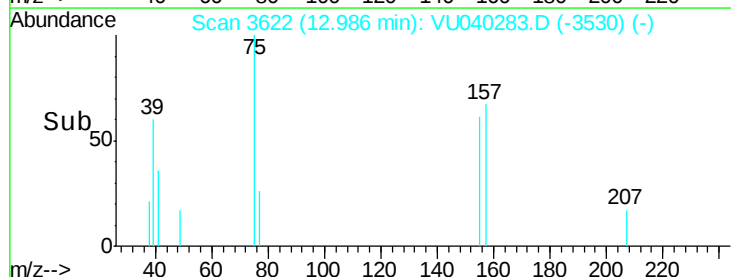
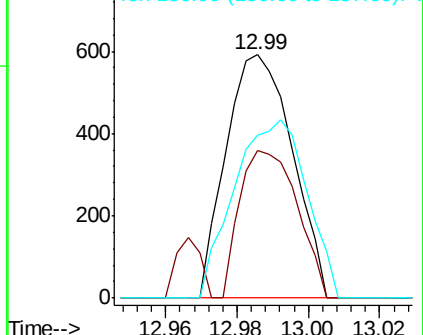
157 66.9 73.5 110.3#

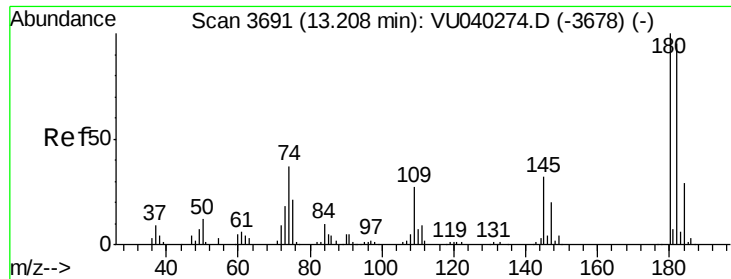


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

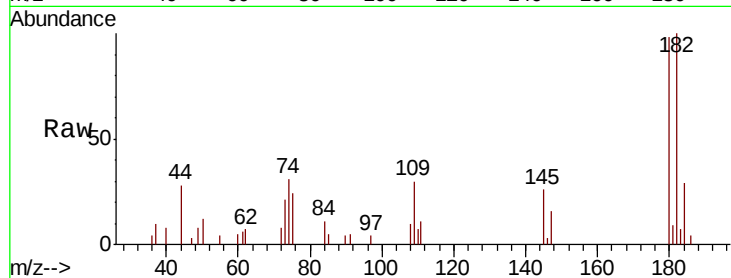




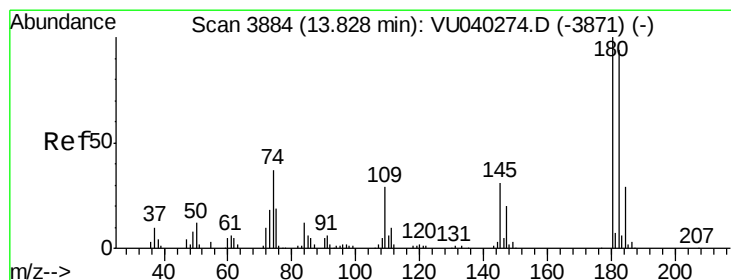
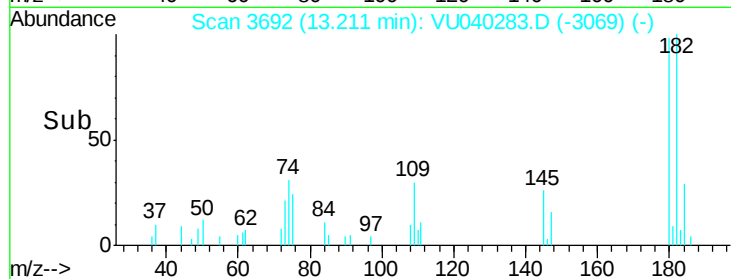
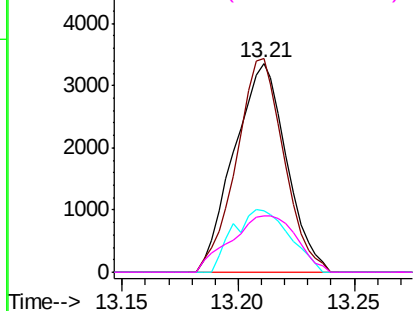
#69
 1,3,5-Trichlorobenzene
 Concen: 0.228 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-01

Tot Ion:180 Resp: 5257
 Ion Ratio Lower Upper
 180 100
 182 93.1 75.8 113.6
 184 32.4 23.7 35.5
 145 33.8 25.4 38.0

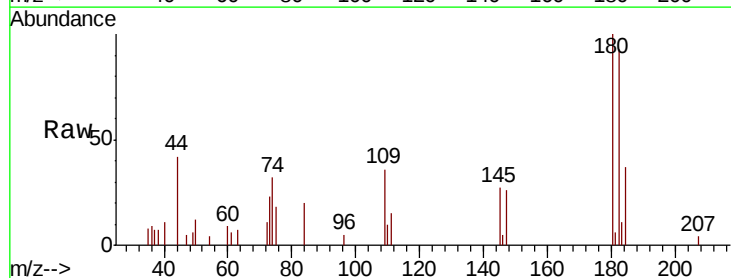


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

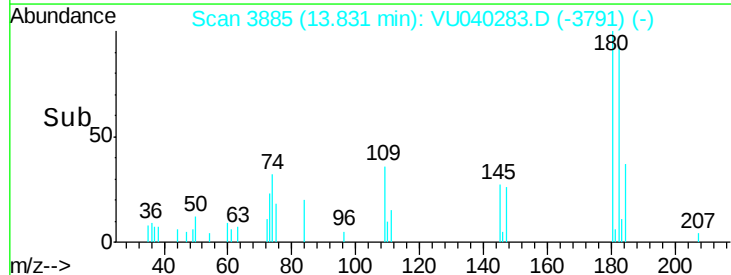
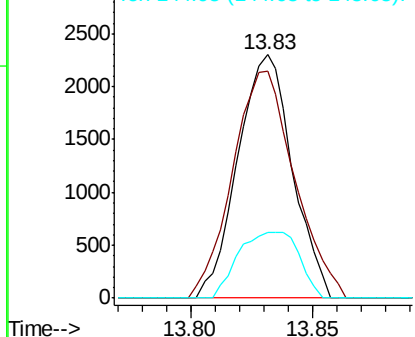


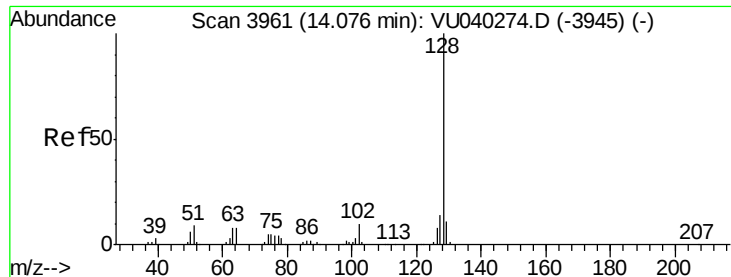
#70
 1,2,4-trichlorobenzene
 Concen: 0.191 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040283.D
 Acq: 24 Sep 2020 20:30

Tgt Ion:180 Resp: 3559
 Ion Ratio Lower Upper
 180 100
 182 106.1 76.3 114.5
 145 30.3 25.9 38.9



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: 0.163 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-01

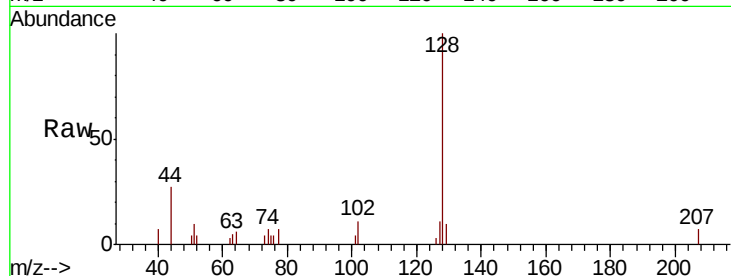
Tot Ion:128 Resp: 5251

Ion Ratio Lower Upper

128 100

129 10.6 8.4 12.6

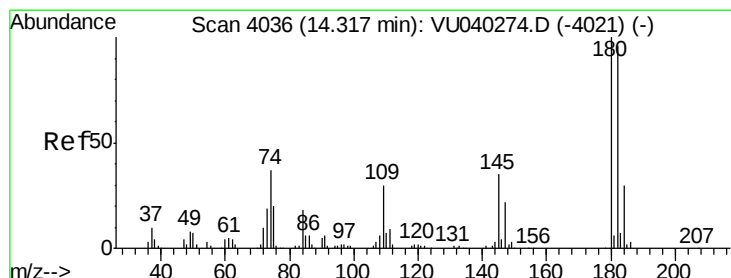
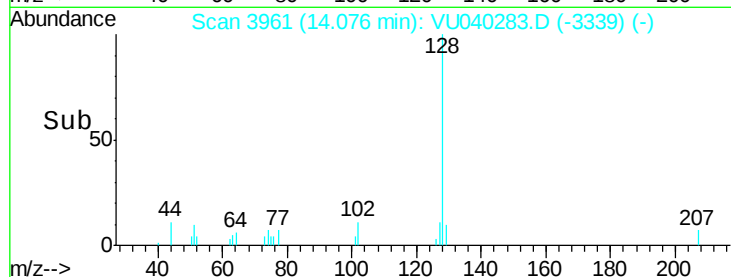
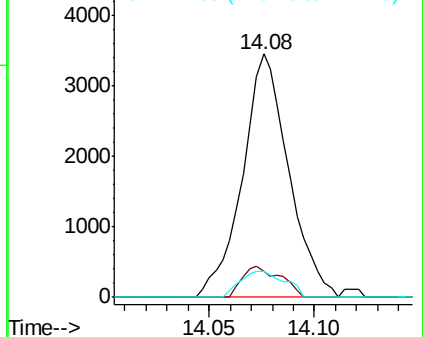
127 10.2 10.6 15.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#72

1,2,3-Trichlorobenzene

Concen: 0.212 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040283.D

Acq: 24 Sep 2020 20:30

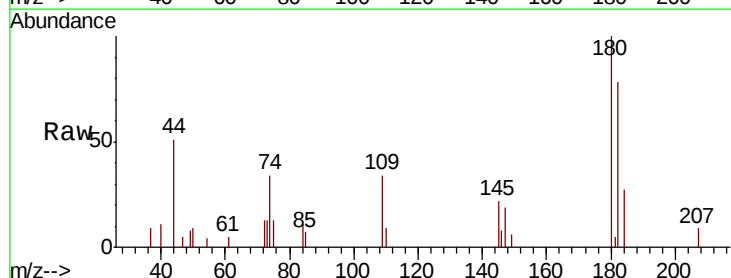
Tgt Ion:180 Resp: 3518

Ion Ratio Lower Upper

180 100

182 93.5 78.0 117.0

145 25.5 28.6 42.8#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

