

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100620\
 Data File : VU040536.D
 Acq On : 06 Oct 2020 18:59
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-WATER-04

Quant Time: Oct 07 08:14:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUL100620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 07 08:04:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	275898	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	276123	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	126939	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	111180	46.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	93.84%
7) Chloroethane-d5	1.92	69	88282	48.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.82%
11) 1,1-Dichloroethene-d2	2.58	63	163686	36.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.40%
21) 2-Butanone-d5	4.64	46	194325	103.34	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.34%
24) Chloroform-d	5.08	84	198125	48.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.96%
26) 1,2-Dichloroethane-d4	5.72	65	140346	49.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.62%
32) Benzene-d6	5.75	84	386503	49.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.36%
36) 1,2-Dichloropropane-d6	6.70	67	128852	48.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.84%
41) Toluene-d8	7.91	98	335312	47.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.14%
43) trans-1,3-Dichloropropene-	8.19	79	62980	47.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.54%
47) 2-Hexanone-d5	8.64	63	124194	101.15	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.15%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	181420	47.69	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.38%
66) 1,2-Dichlorobenzene-d4	12.19	152	130233	50.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.82%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	6698	2.521	ug/L	96
3) Chloromethane	1.53	50	6954	2.491	ug/L	97
5) Vinyl chloride	1.61	62	6935	2.509	ug/L #	58
6) Bromomethane	1.86	94	3405	2.347	ug/L	99
8) Chloroethane	1.94	64	4361	2.615	ug/L	93
9) Trichlorofluoromethane	2.15	101	8354	2.356	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	6280	2.971	ug/L	94
12) 1,1-Dichloroethene	2.59	96	5632	2.882	ug/L #	1
13) Acetone	2.64	43	7604	4.211	ug/L	92
14) Carbon disulfide	2.81	76	16384	2.442	ug/L	100
15) Methyl Acetate	2.96	43	7529	2.556	ug/L	97
16) Methylene chloride	3.06	84	5992	2.586	ug/L	88
17) trans-1,2-Dichloroethene	3.37	96	4633	2.226	ug/L	94
18) Methyl tert-butyl Ether	3.38	73	15341	2.343	ug/L	98
19) 1,1-Dichloroethane	3.89	63	9653	2.325	ug/L	98
20) cis-1,2-Dichloroethene	4.69	96	5641	2.515	ug/L	97
22) 2-Butanone	4.73	43	10489	4.553	ug/L	99

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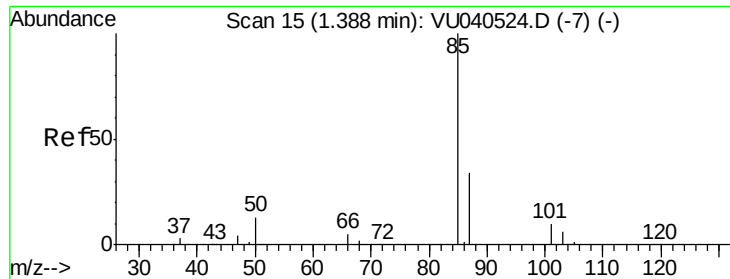
Instrument :
 MSVOA_U
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.99	128	1931	1.652	ug/L	95
25) Chloroform	5.11	83	13220	3.123	ug/L	95
27) 1,2-Dichloroethane	5.81	62	9256	2.650	ug/L #	93
29) Cyclohexane	5.41	56	8123	2.197	ug/L	97
30) 1,1,1-Trichloroethane	5.33	97	8714	2.457	ug/L	97
31) Carbon tetrachloride	5.54	117	3463	1.129	ug/L #	1
33) Benzene	5.79	78	22239	2.492	ug/L	100
34) Trichloroethene	6.56	95	5740	2.497	ug/L	96
35) Methylcyclohexane	6.77	83	8016	2.293	ug/L	97
37) 1,2-Dichloropropane	6.81	63	5920	2.415	ug/L	98
38) Bromodichloromethane	7.11	83	7519	2.362	ug/L	90
39) cis-1,3-Dichloropropene	7.61	75	8502	2.367	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	18042	4.665	ug/L #	94
42) Toluene	7.98	91	22271	2.444	ug/L	99
44) trans-1,3-Dichloropropene	8.22	75	8785	2.429	ug/L	92
45) 1,1,2-Trichloroethane	8.40	97	5331	2.428	ug/L	95
46) Tetrachloroethene	8.56	164	4258	2.563	ug/L	88
48) 2-Hexanone	8.69	43	18500	5.886	ug/L	97
49) Dibromochloromethane	8.82	129	5769	2.406	ug/L	90
50) 1,2-Dibromoethane	8.92	107	5725	2.460	ug/L	98
51) Chlorobenzene	9.45	112	14376	2.405	ug/L	96
52) Ethylbenzene	9.57	91	22369	2.212	ug/L	98
53) m,p-Xylene	9.70	106	8375	2.249	ug/L	100
54) o-xylene	10.10	106	7504	2.118	ug/L	93
55) Styrene	10.11	104	11529	1.847	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.78	83	9974	2.569	ug/L #	98
59) Bromoform	10.29	173	3733	2.399	ug/L	93
60) 1,2,3-Trichloropropane	10.82	75	7785	2.700	ug/L	97
61) Isopropylbenzene	10.48	105	18432	2.162	ug/L	99
62) 1,3,5-Trimethylbenzene	11.09	105	13745	1.962	ug/L	98
63) 1,2,4-Trimethylbenzene	11.47	105	13568	1.910	ug/L	100
64) 1,3-Dichlorobenzene	11.74	146	10401	2.502	ug/L	95
65) 1,4-Dichlorobenzene	11.83	146	11182	2.561	ug/L	98
67) 1,2-Dichlorobenzene	12.21	146	11509	2.764	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.99	75	1974	2.437	ug/L	90
69) 1,3,5-Trichlorobenzene	13.21	180	6612	2.428	ug/L	97
70) 1,2,4-trichlorobenzene	13.83	180	5051	2.140	ug/L	91
71) Naphthalene	14.08	128	10952	1.501	ug/L	99
72) 1,2,3-Trichlorobenzene	14.32	180	4895	2.089	ug/L	94

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



#2

Dichlorodifluoromethane

Concen: 2.521 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

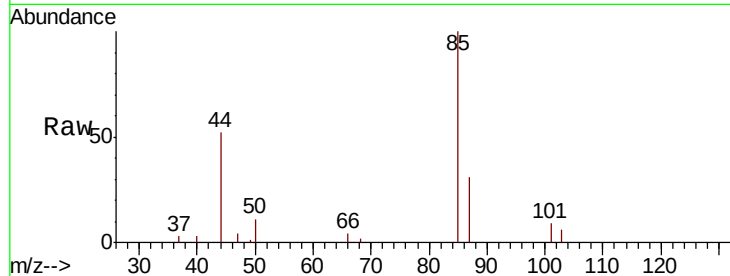
MDL-WATER-04

Tot Ion: 85 Resp: 6698

Ion Ratio Lower Upper

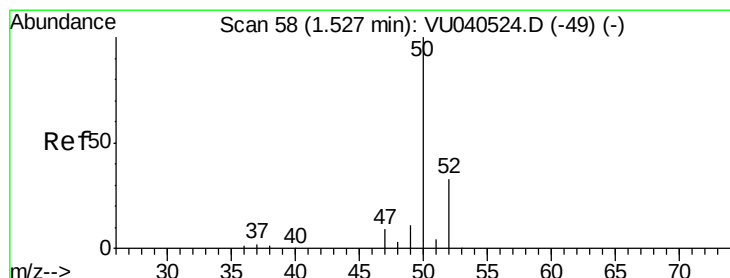
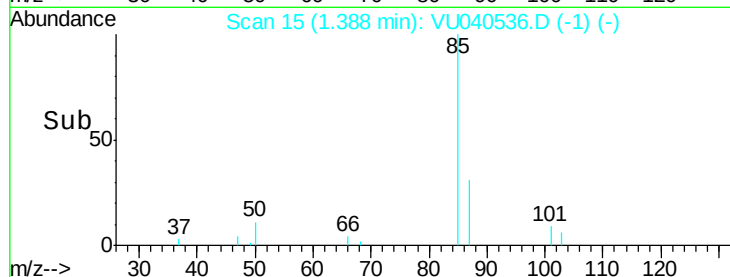
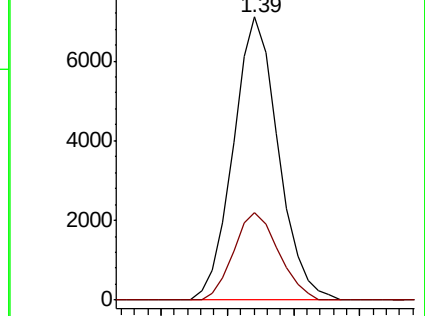
85 100

87 31.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040524.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040524.D (-7) (-)



#3

Chloromethane

Concen: 2.491 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040536.D

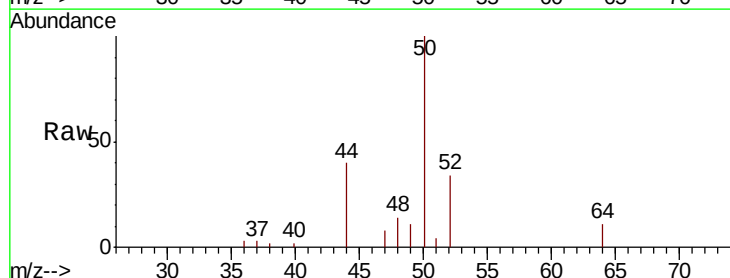
Acq: 06 Oct 2020 18:59

Tgt Ion: 50 Resp: 6954

Ion Ratio Lower Upper

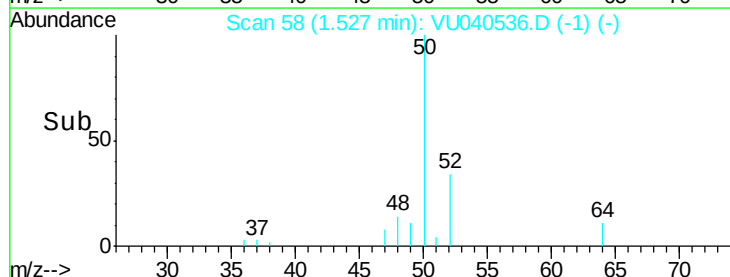
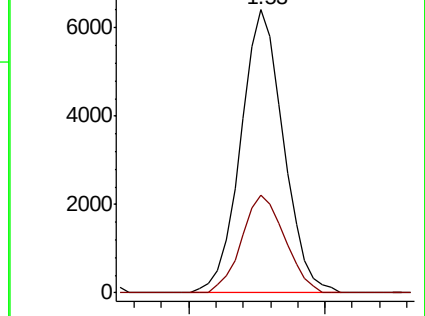
50 100

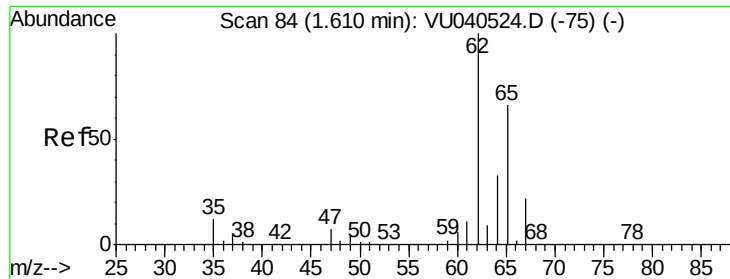
52 34.4 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040524.D (-49) (-)

Ion 52.00 (51.70 to 52.70): VU040524.D (-49) (-)





#5

Vinyl chloride

Concen: 2.509 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

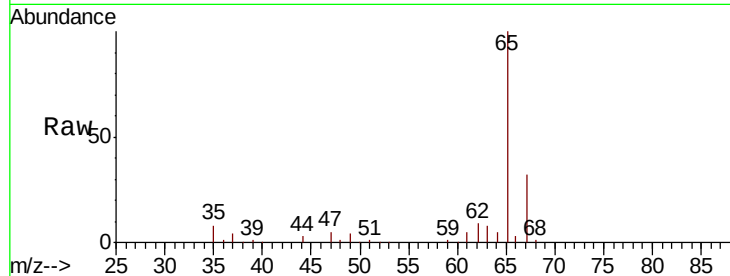
MDL-WATER-04

Tot Ion: 62 Resp: 6935

Ion Ratio Lower Upper

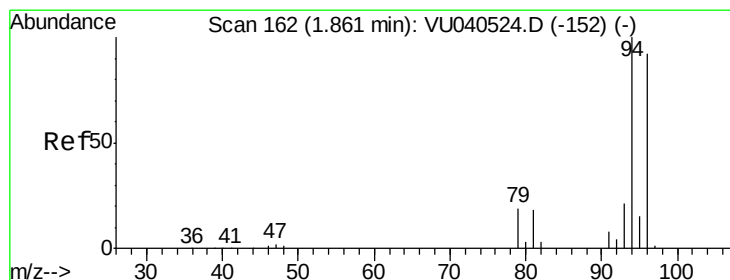
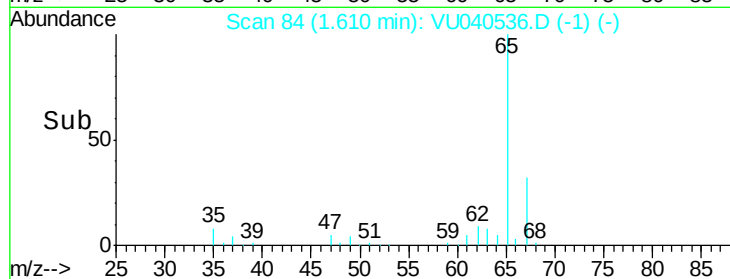
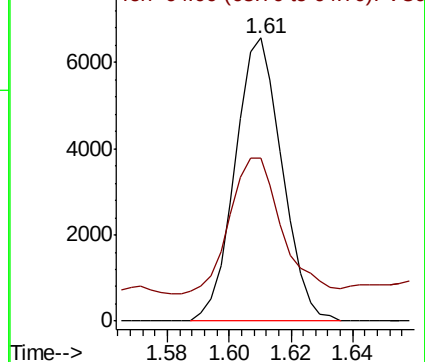
62 100

64 57.6 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.347 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU040536.D

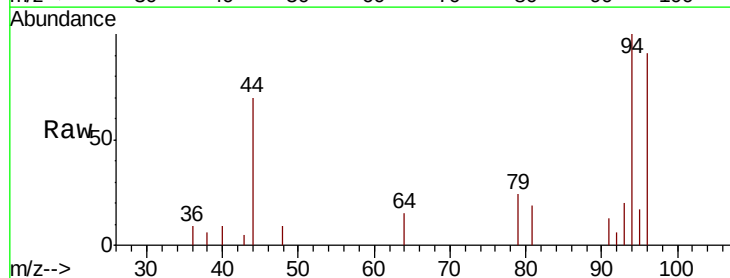
Acq: 06 Oct 2020 18:59

Tgt Ion: 94 Resp: 3405

Ion Ratio Lower Upper

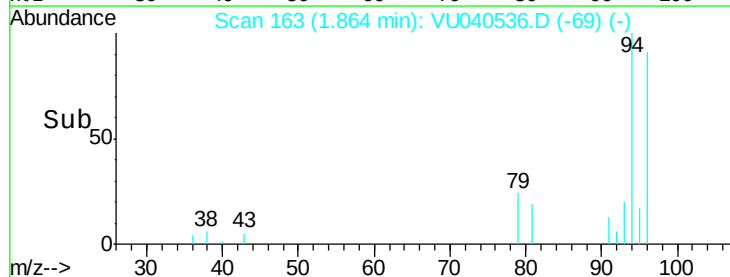
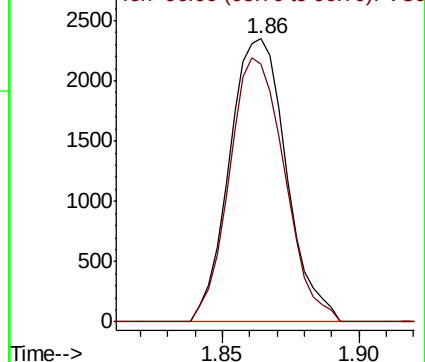
94 100

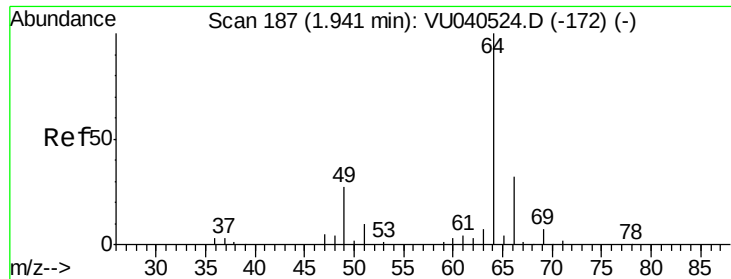
96 91.1 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

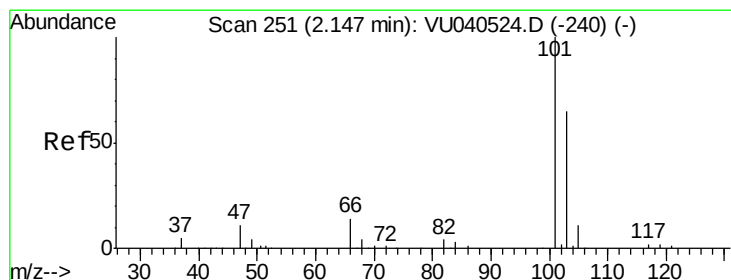
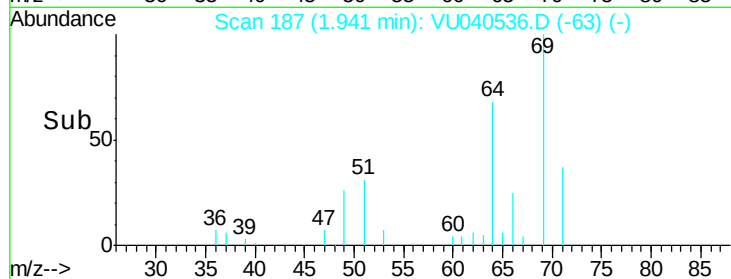
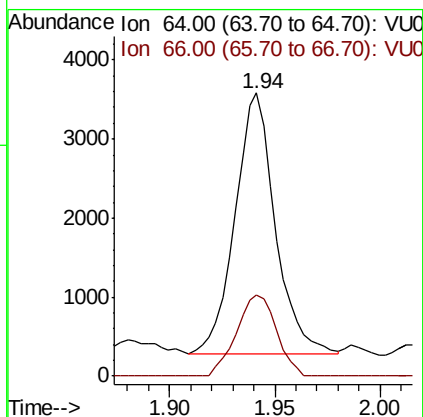
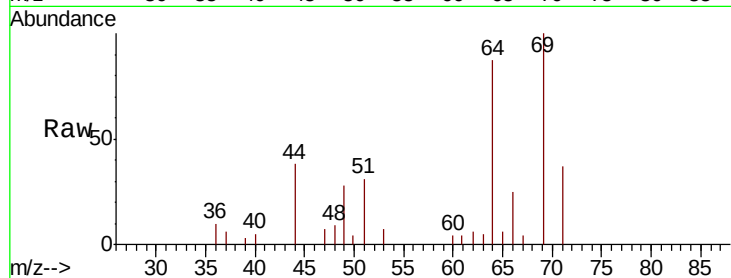




#8
Chloroethane
Concen: 2.615 ug/L
RT: 1.94 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

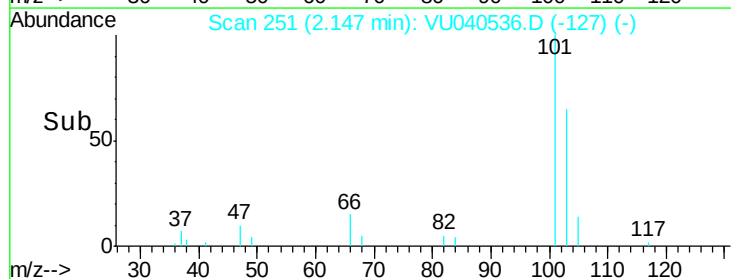
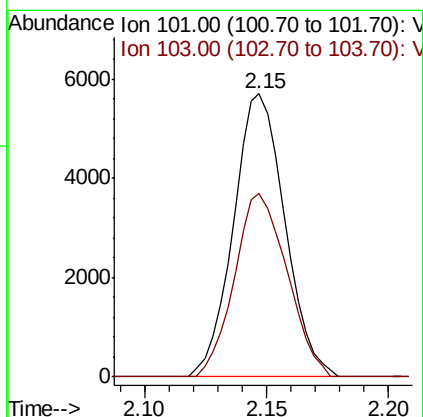
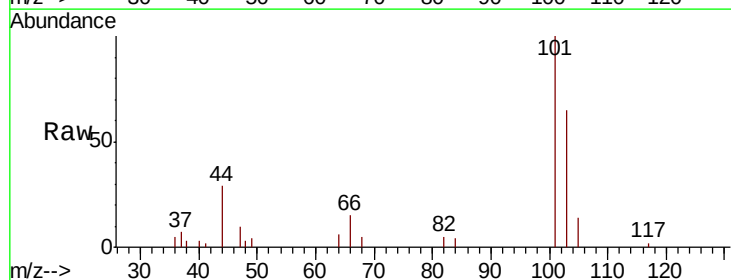
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-04

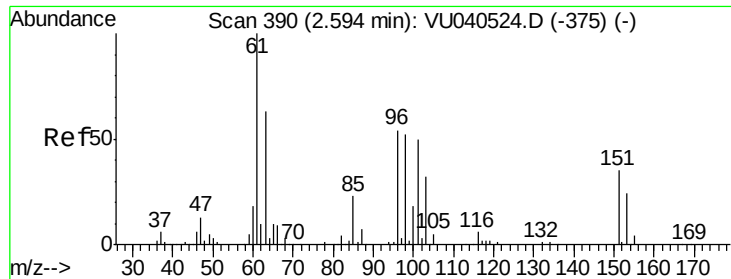
Tot Ion: 64 Resp: 4361
Ion Ratio Lower Upper
64 100
66 28.5 22.5 41.9



#9
Trichlorofluoromethane
Concen: 2.356 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion: 101 Resp: 8354
Ion Ratio Lower Upper
101 100
103 66.2 52.1 78.1





#10

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

Concen: 2.971 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-04

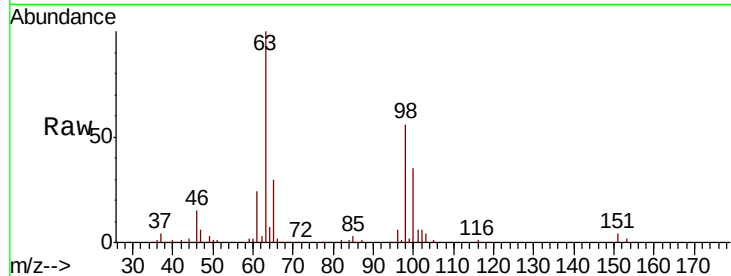
Tot Ion:101 Resp: 6280

Ion Ratio Lower Upper

101 100

85 39.4 35.4 53.2

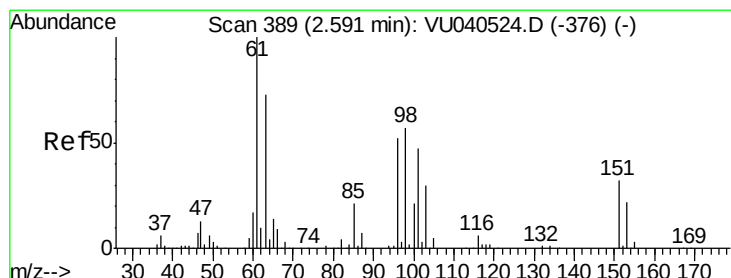
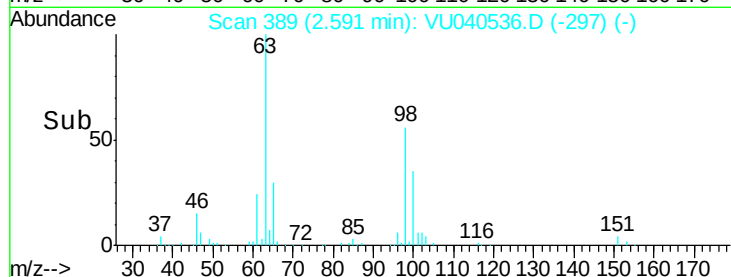
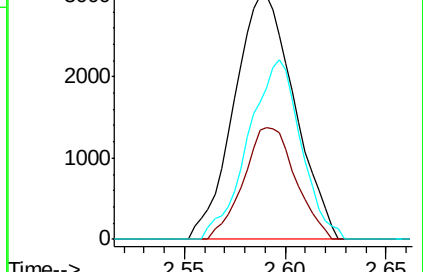
151 64.1 54.8 82.2



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: 2.882 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

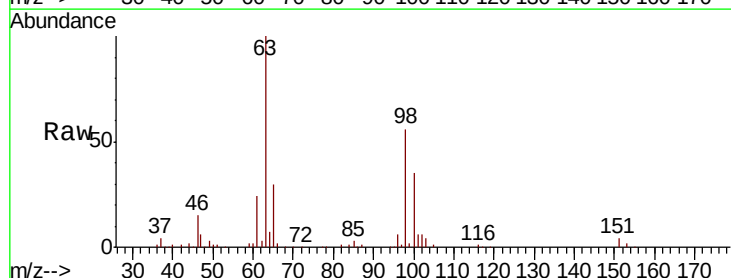
Tgt Ion: 96 Resp: 5632

Ion Ratio Lower Upper

96 100

61 374.5 135.0 250.8#

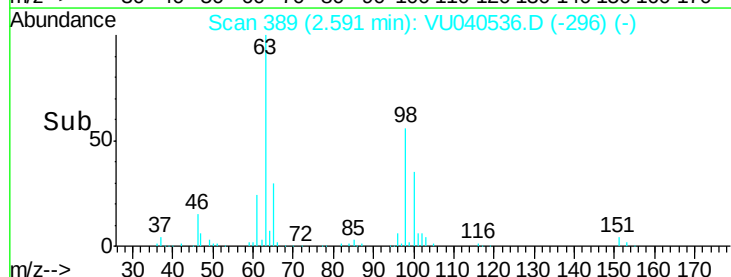
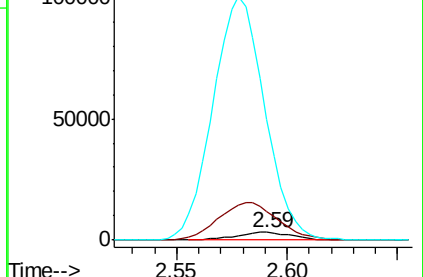
63 1587.3 101.4 188.2#

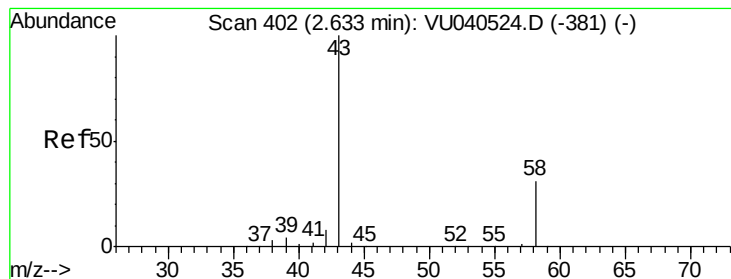


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.211 ug/L

RT: 2.64 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

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ClientSampleId :

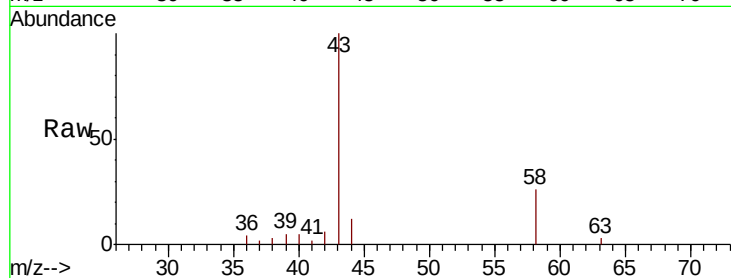
MDL-WATER-04

Tot Ion: 43 Resp: 7604

Ion Ratio Lower Upper

43 100

58 25.6 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VU040524.D (-381) (-)

Ion 58.00 (57.70 to 58.70): VU040524.D (-381) (-)

2.64

5000

4000

3000

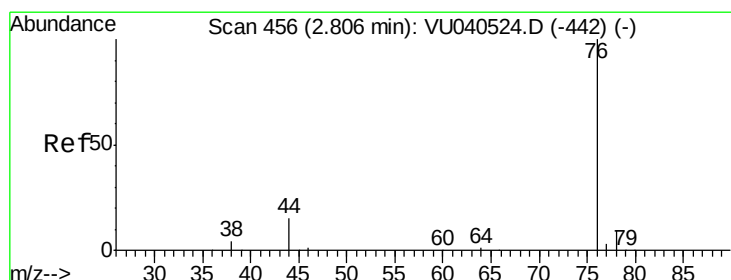
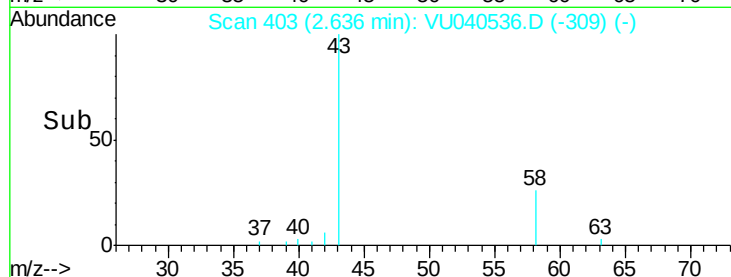
2000

1000

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 2.442 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040536.D

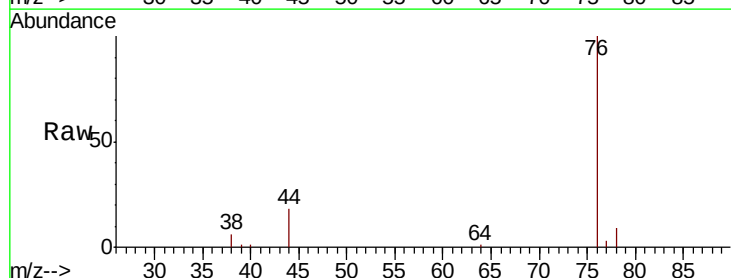
Acq: 06 Oct 2020 18:59

Tgt Ion: 76 Resp: 16384

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU040524.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU040524.D (-442) (-)

2.81

10000

8000

6000

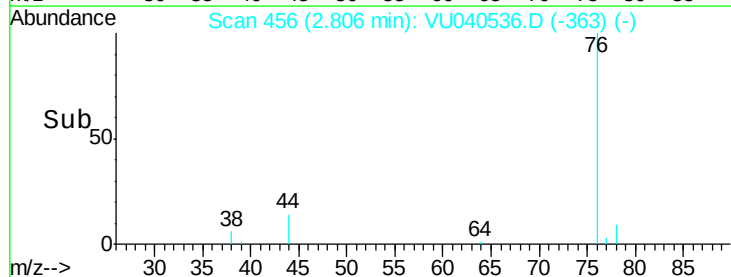
4000

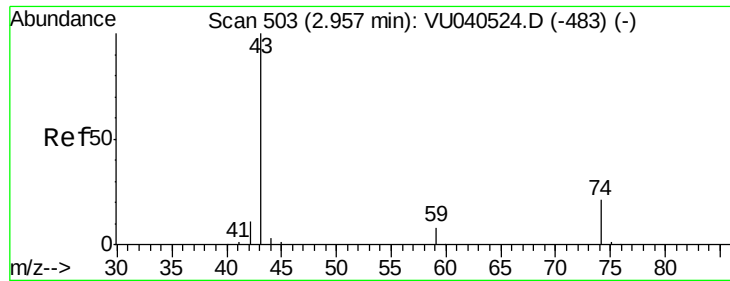
2000

0

Time-->

2.75 2.80 2.85

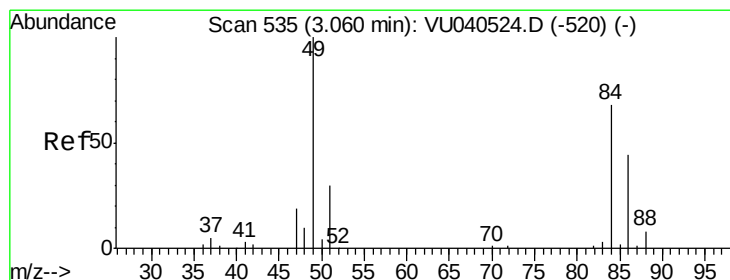
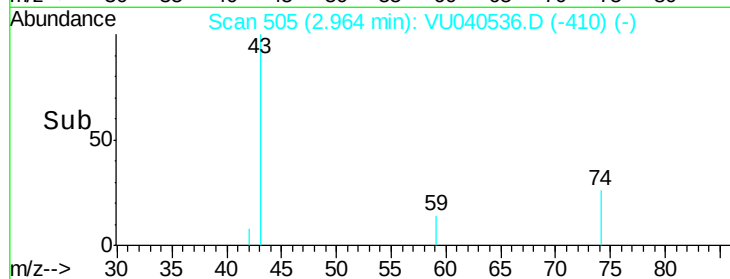
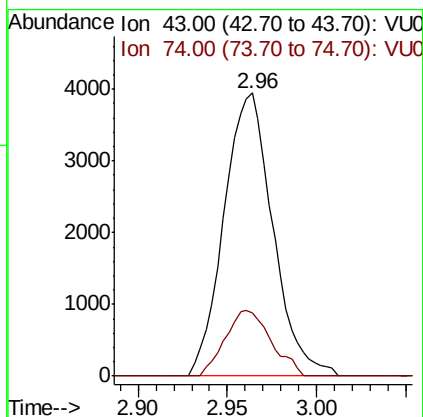
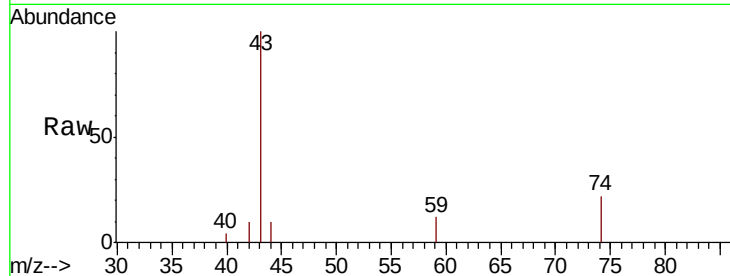




#15
Methvl Acetate
Concen: 2.556 ug/L
RT: 2.96 min Scan# 505
Delta R.T. 0.01 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

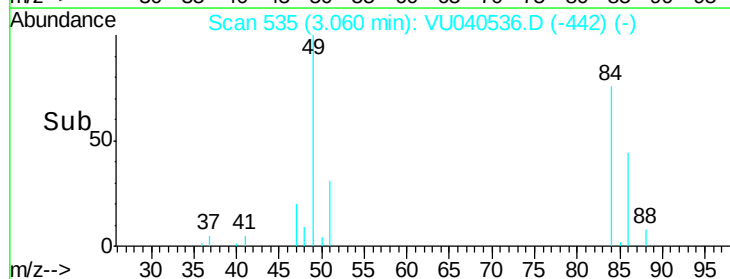
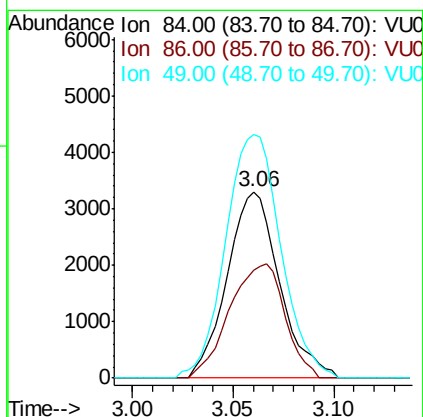
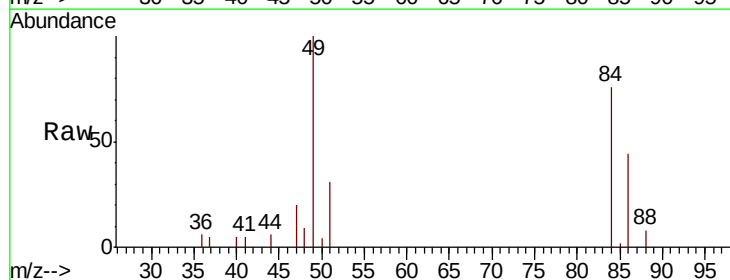
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-04

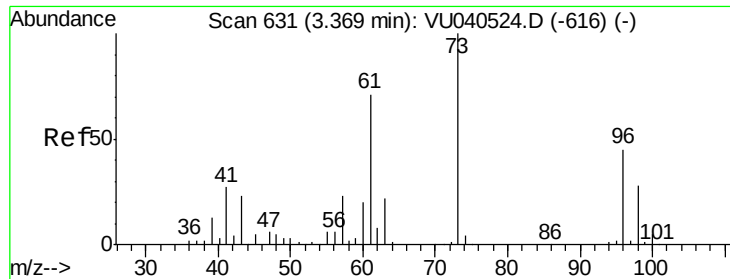
Tot Ion: 43 Resp: 7529
Ion Ratio Lower Upper
43 100
74 21.8 16.4 24.6



#16
Methylene chloride
Concen: 2.586 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion: 84 Resp: 5992
Ion Ratio Lower Upper
84 100
86 57.7 45.4 84.4
49 130.8 102.9 191.1

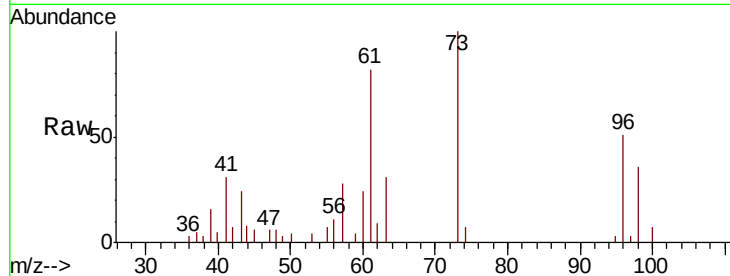




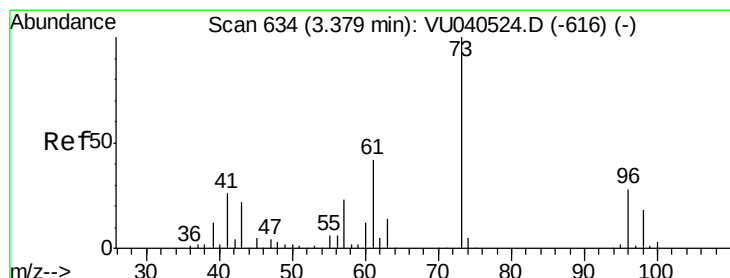
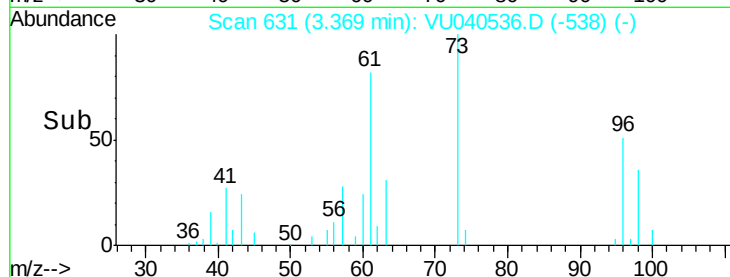
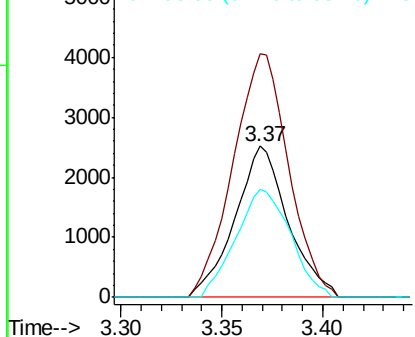
#17
trans-1,2-Dichloroethene
Concen: 2.226 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Instrument :
MSVOA_U
ClientSampled :
MDL-WATER-04

Tot Ion: 96 Resp: 4633
Ion Ratio Lower Upper
96 100
61 161.0 109.6 203.6
98 71.5 43.3 80.3

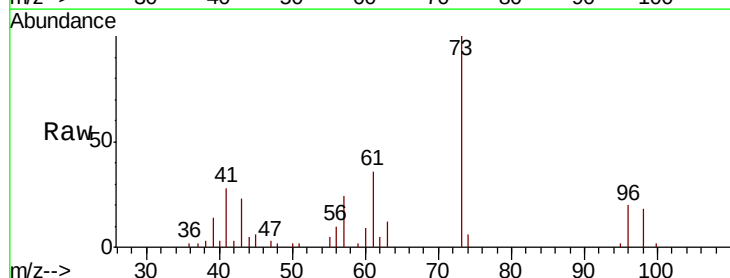


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

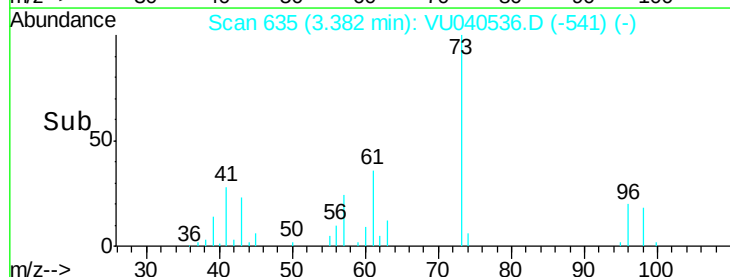
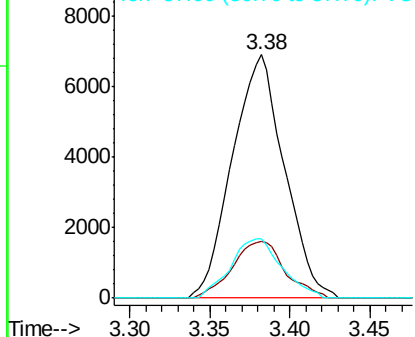


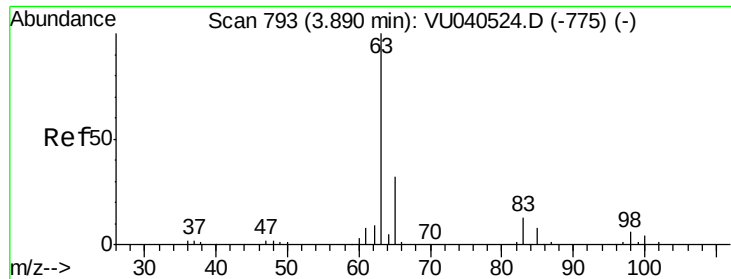
#18
Methyl tert-butyl Ether
Concen: 2.343 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion: 73 Resp: 15341
Ion Ratio Lower Upper
73 100
43 23.6 18.2 27.2
57 24.0 18.5 27.7



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

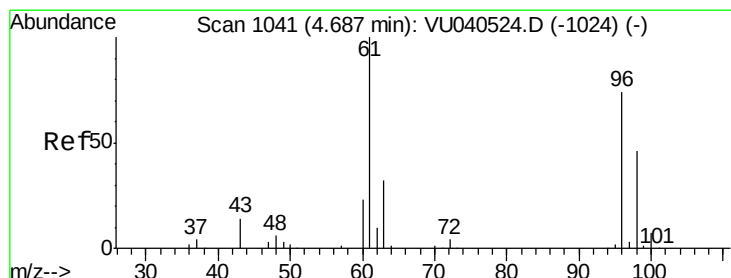
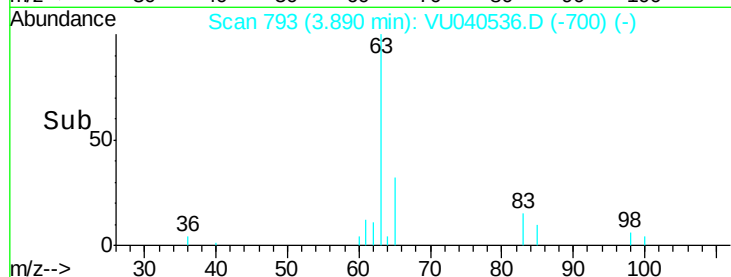
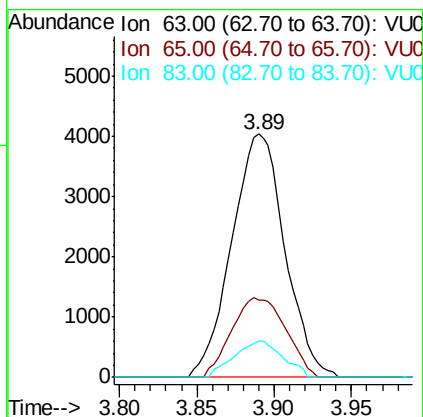
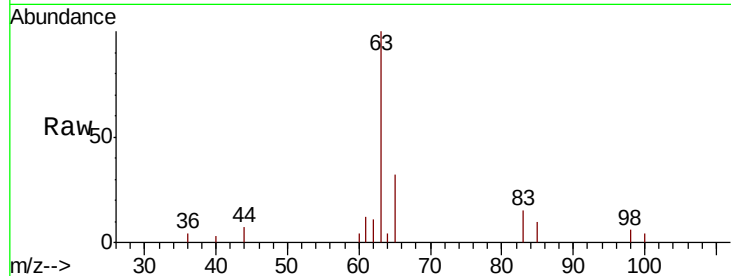




#19
 1,1-Dichloroethane
 Concen: 2.325 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

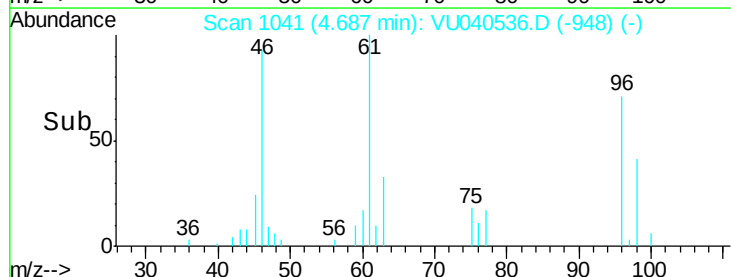
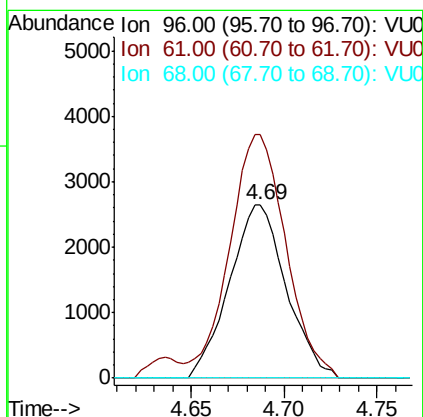
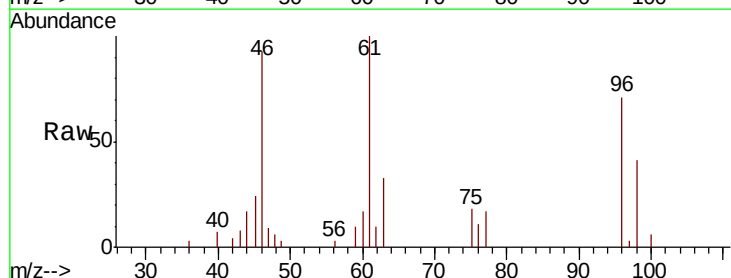
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

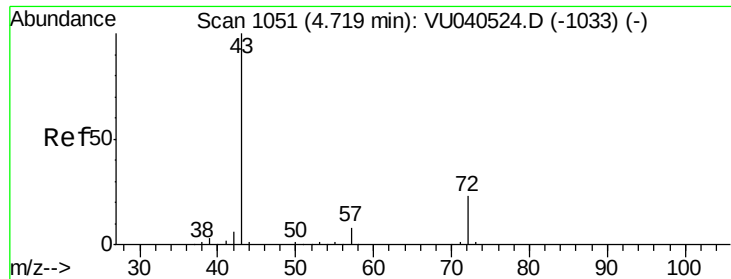
Tot Ion: 63 Resp: 9653
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.6 42.0
 83 14.9 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 2.515 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion: 96 Resp: 5641
 Ion Ratio Lower Upper
 96 100
 61 140.5 95.7 177.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 4.553 ug/L

RT: 4.73 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

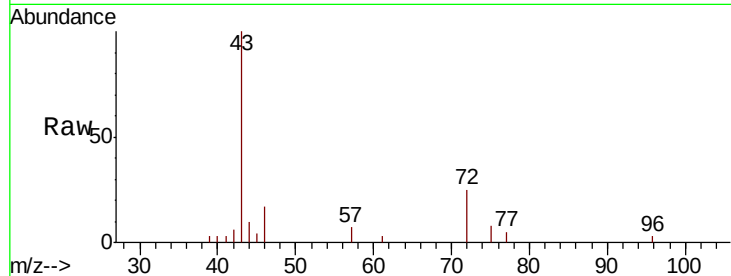
MDL-WATER-04

Tot Ion: 43 Resp: 10489

Ion Ratio Lower Upper

43 100

72 24.1 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VU040536.D (-958) (-)

Ion 72.00 (71.70 to 72.70): VU040536.D (-958) (-)

4.73

5000

4000

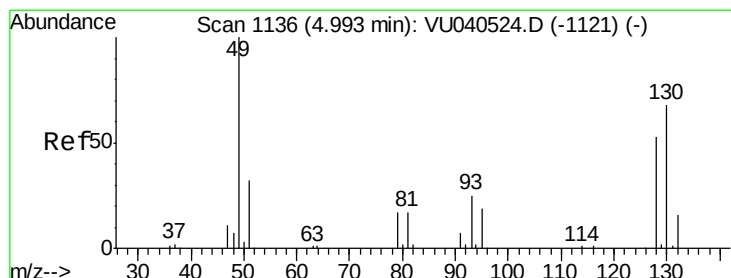
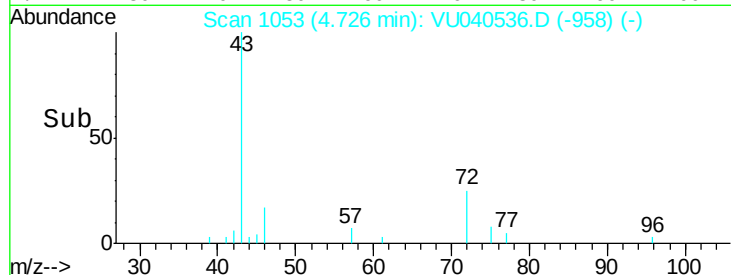
3000

2000

1000

0

Time-->



#23

Bromochloromethane

Concen: 1.652 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Tgt Ion: 128 Resp: 1931

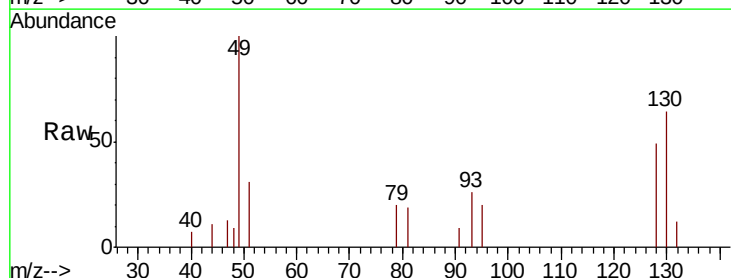
Ion Ratio Lower Upper

128 100

49 203.5 133.1 247.3

130 130.5 90.5 168.1

51 62.7 48.4 72.6



Abundance Ion 128.00 (127.70 to 128.70): VU040536.D (-1043) (-)

Ion 49.00 (48.70 to 49.70): VU040536.D (-1043) (-)

Ion 130.00 (129.70 to 130.70): VU040536.D (-1043) (-)

Ion 51.00 (50.70 to 51.70): VU040536.D (-1043) (-)

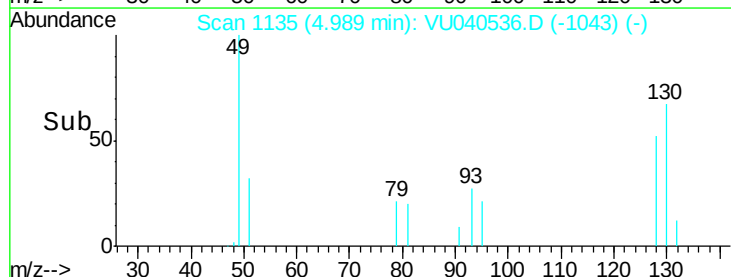
3000

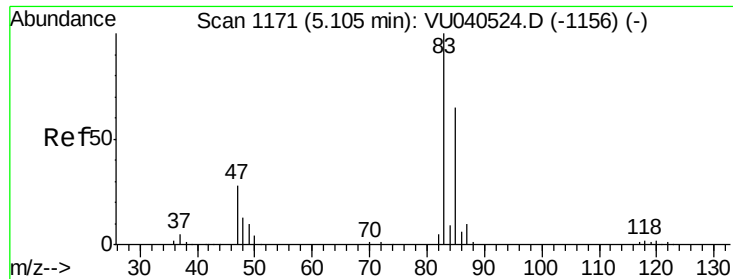
2000

1000

0

Time-->

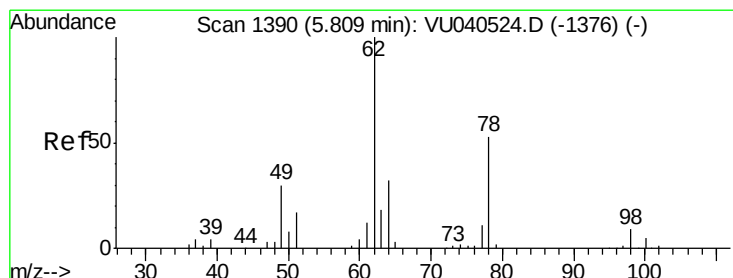
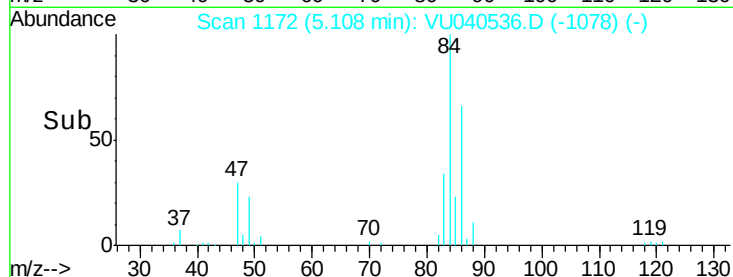
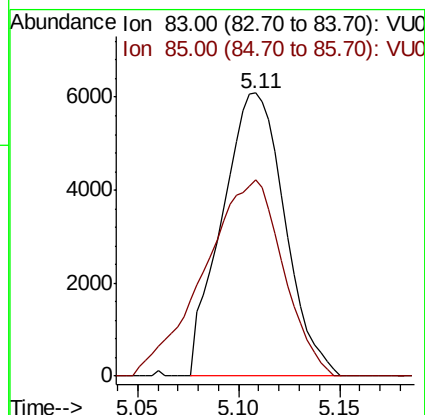
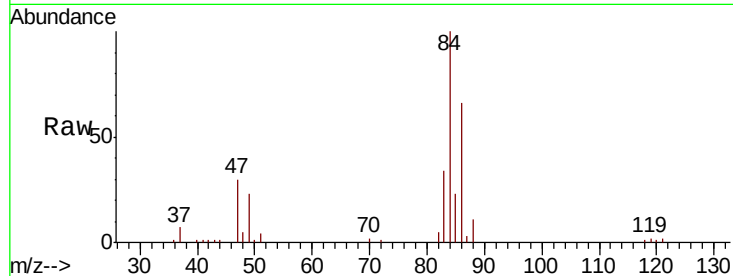




#25
Chloroform
Concen: 3.123 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

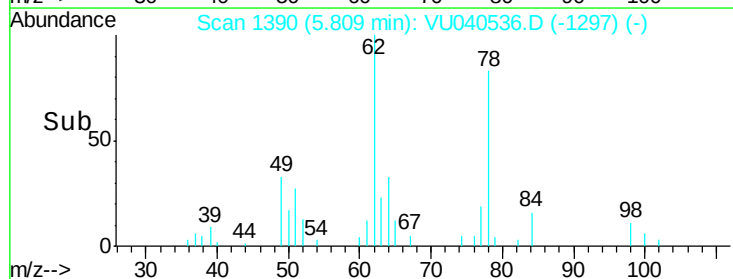
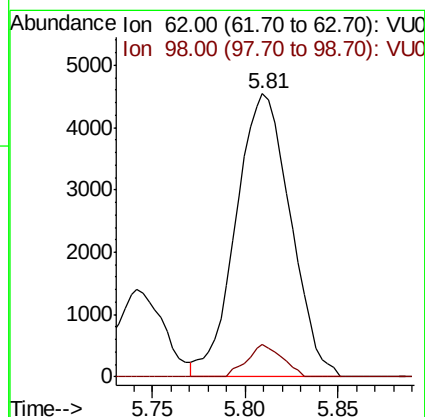
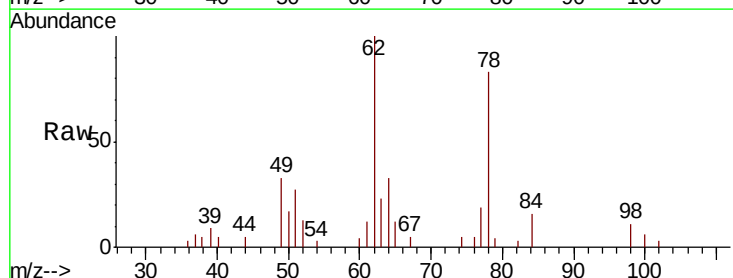
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-04

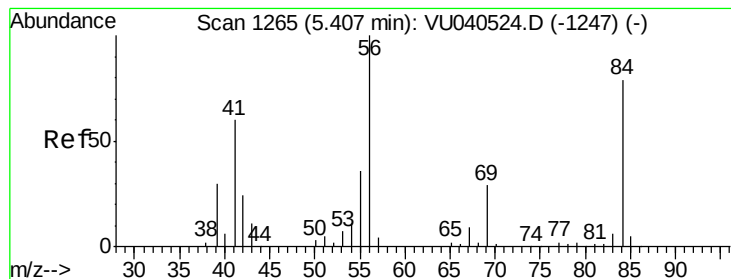
Tot Ion: 83 Resp: 13220
Ion Ratio Lower Upper
83 100
85 69.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 2.650 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion: 62 Resp: 9256
Ion Ratio Lower Upper
62 100
98 11.4 7.1 10.7#





#29

Cyclohexane

Concen: 2.197 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-04

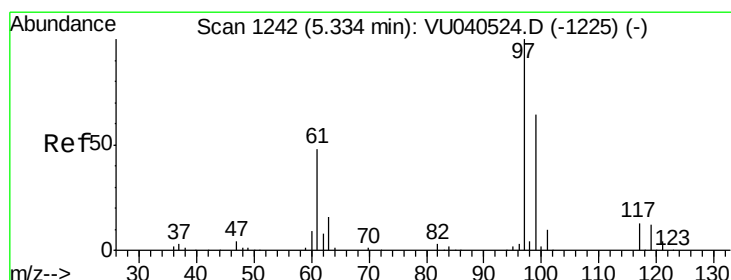
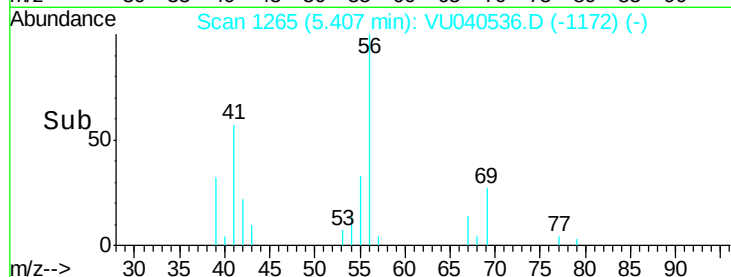
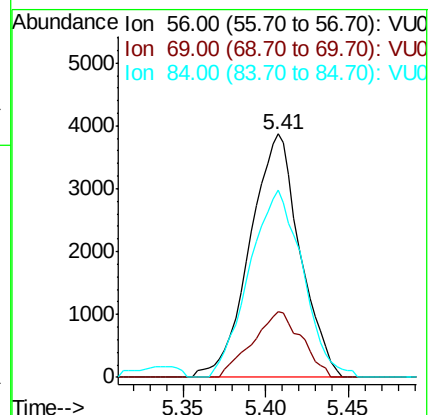
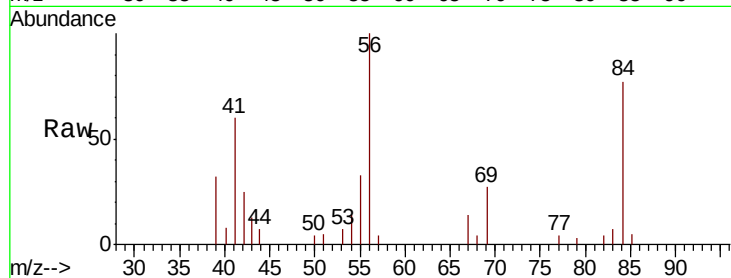
Tot Ion: 56 Resp: 8123

Ion Ratio Lower Upper

56 100

69 26.4 22.6 34.0

84 81.8 63.1 94.7



#30

1,1,1-Trichloroethane

Concen: 2.457 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

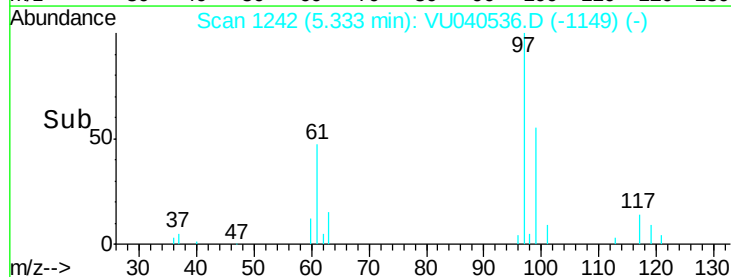
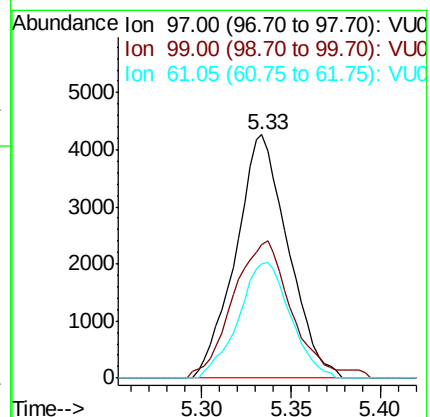
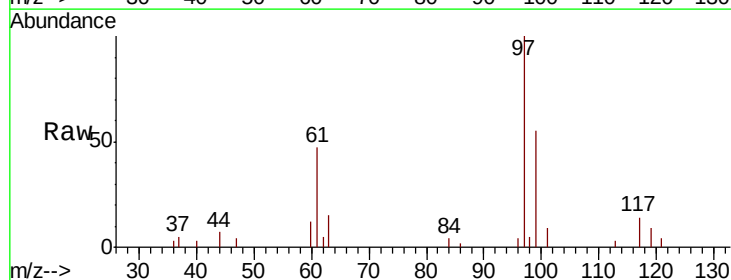
Tgt Ion: 97 Resp: 8714

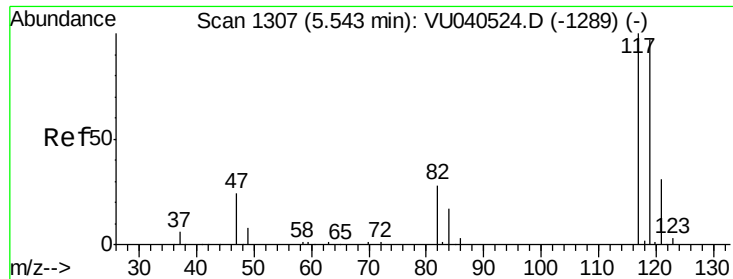
Ion Ratio Lower Upper

97 100

99 62.2 51.0 76.6

61 47.1 39.4 59.2

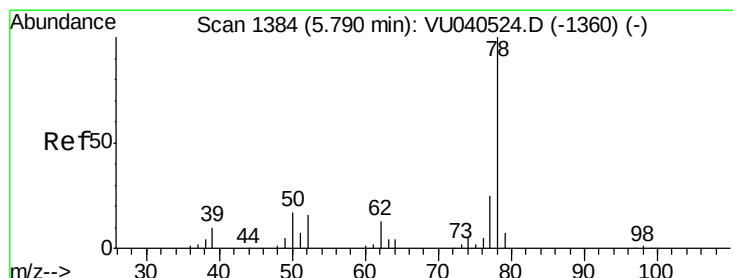
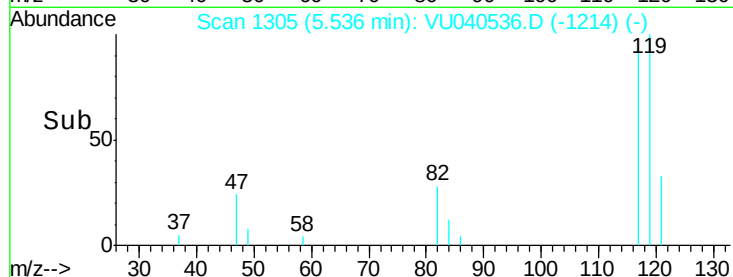
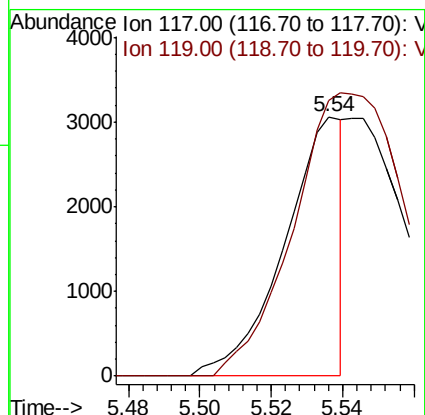
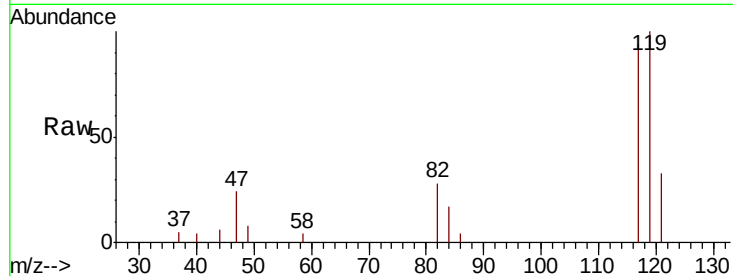




#31
Carbon tetrachloride
Concen: 1.129 ug/L
RT: 5.54 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

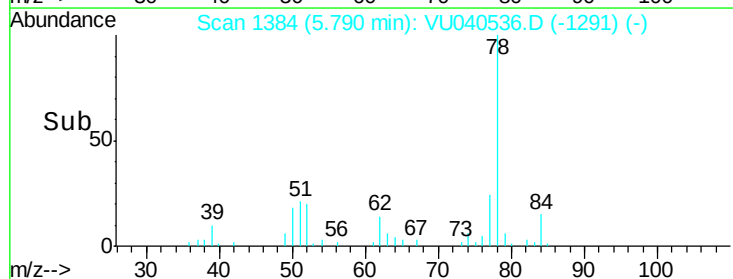
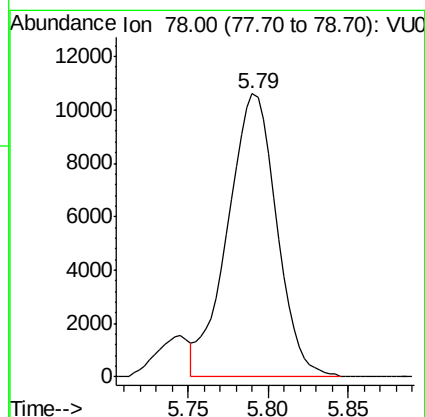
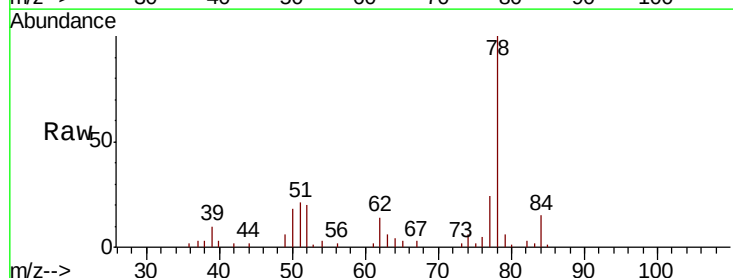
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-04

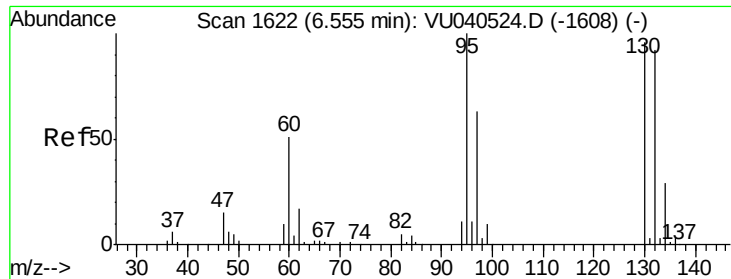
Tot Ion:117 Resp: 3463
Ion Ratio Lower Upper
117 100
119 211.4 75.8 113.6#



#33
Benzene
Concen: 2.492 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion: 78 Resp: 22239

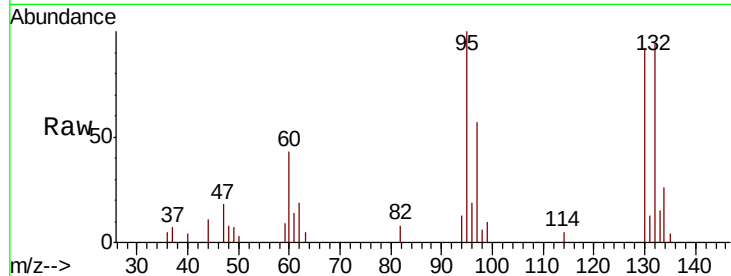




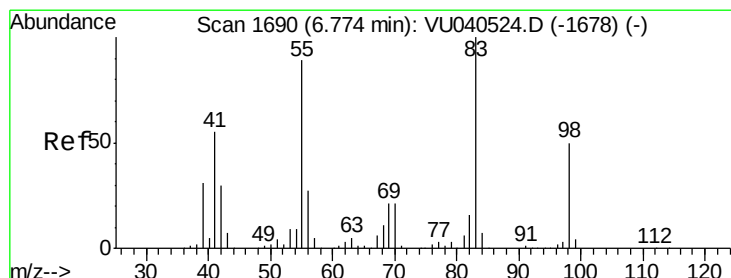
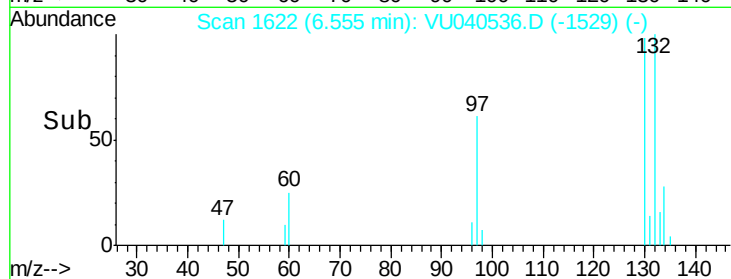
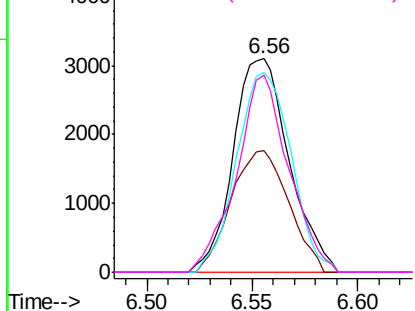
#34
 Trichloroethene
 Concen: 2.497 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

Tot Ion: 95 Resp: 5740
 Ion Ratio Lower Upper
 95 100
 97 57.2 44.3 82.3
 132 93.6 64.2 119.2
 130 92.2 67.3 125.1

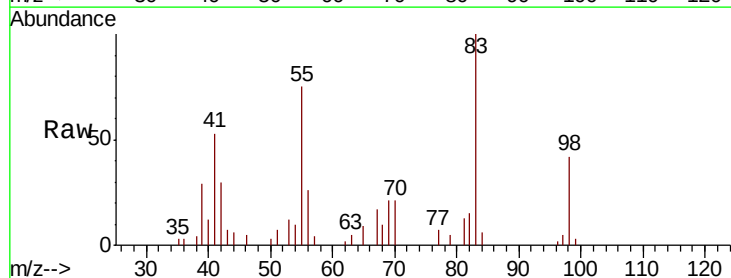


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

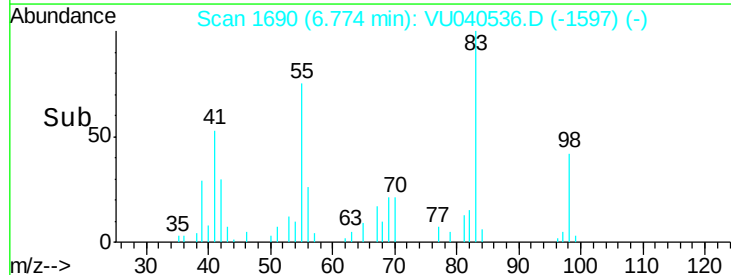
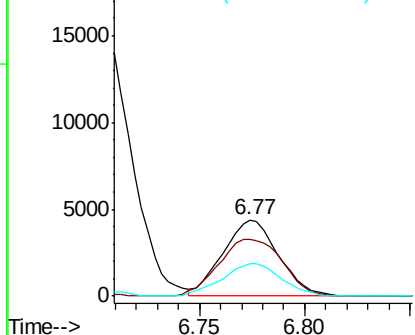


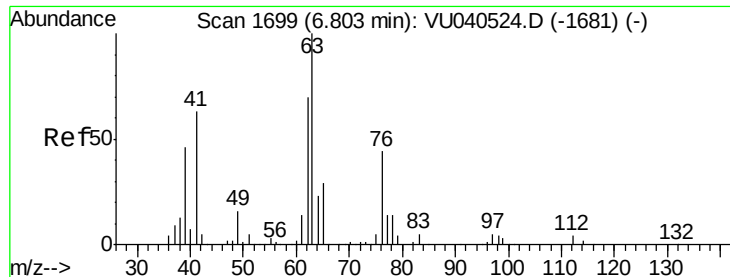
#35
 Methylcyclohexane
 Concen: 2.293 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion: 83 Resp: 8016
 Ion Ratio Lower Upper
 83 100
 55 85.6 69.8 104.8
 98 45.6 39.1 58.7



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

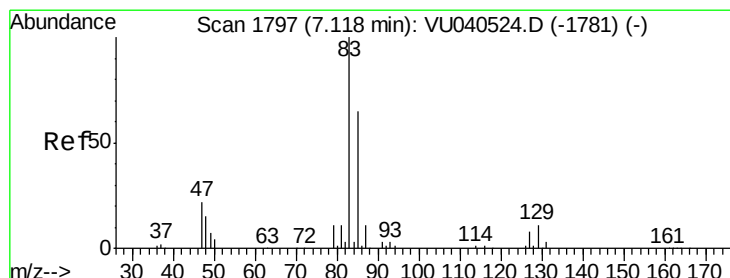
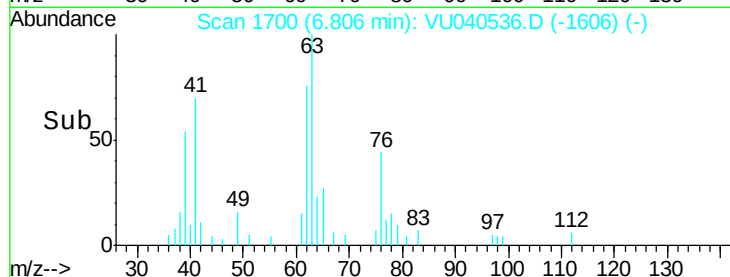
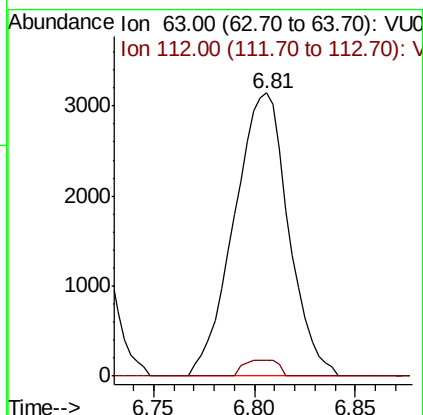
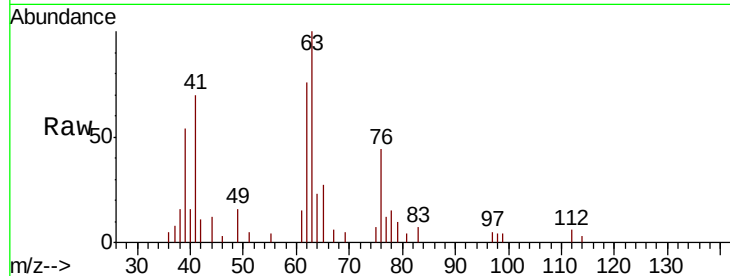




#37
 1,2-Dichloropropane
 Concen: 2.415 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

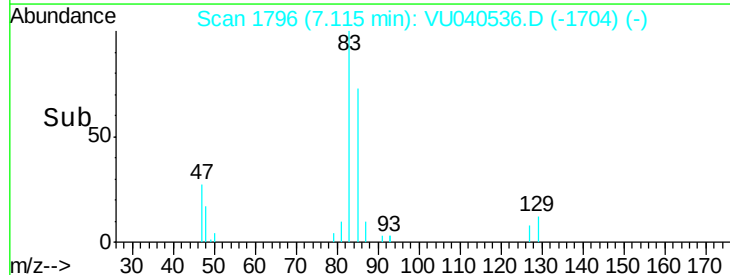
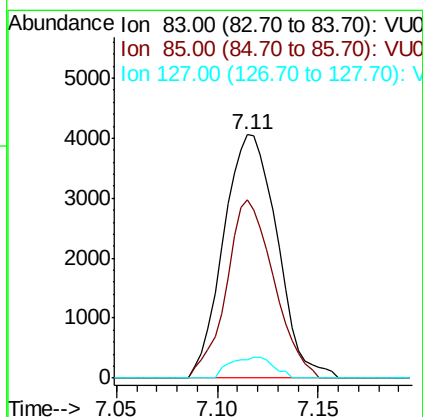
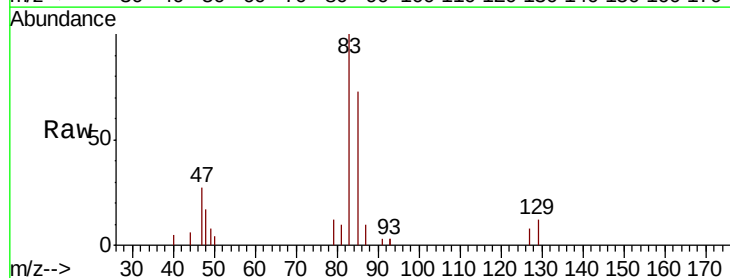
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

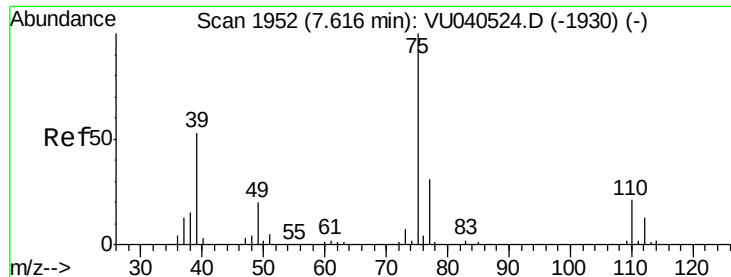
Tot Ion: 63 Resp: 5920
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.5 5.3



#38
 Bromodichloromethane
 Concen: 2.362 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion: 83 Resp: 7519
 Ion Ratio Lower Upper
 83 100
 85 73.1 45.2 84.0
 127 7.8 6.7 10.1

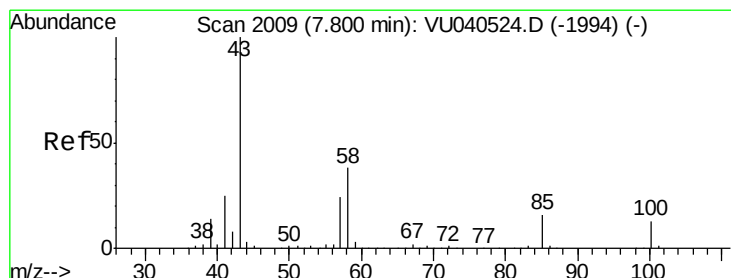
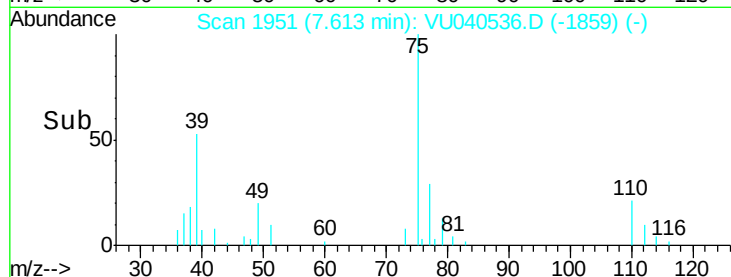
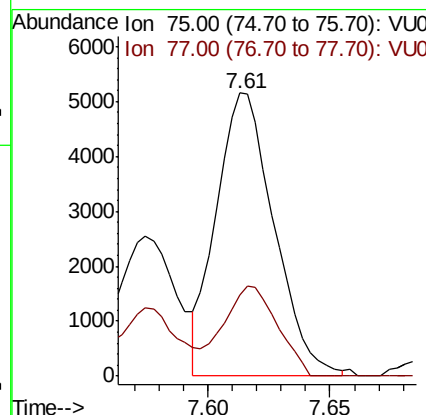
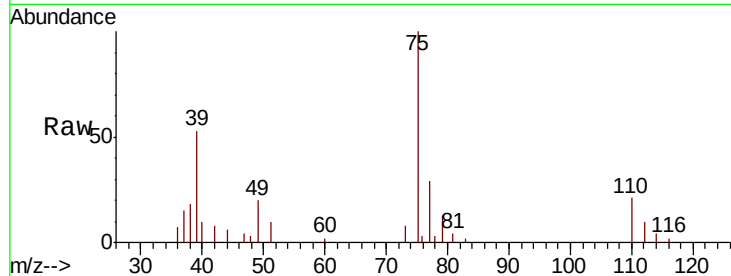




#39
 cis-1,3-Dichloropropene
 Concen: 2.367 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

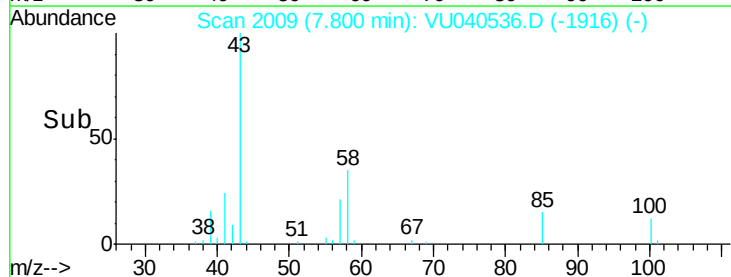
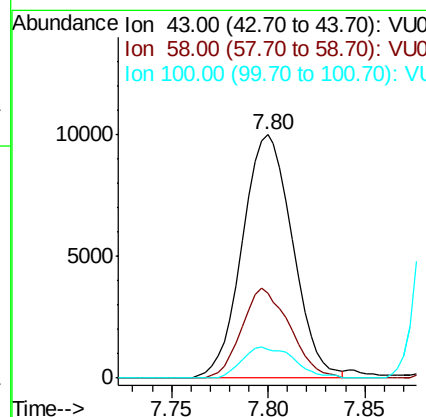
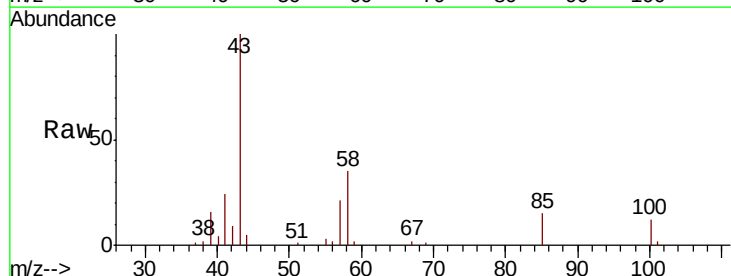
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

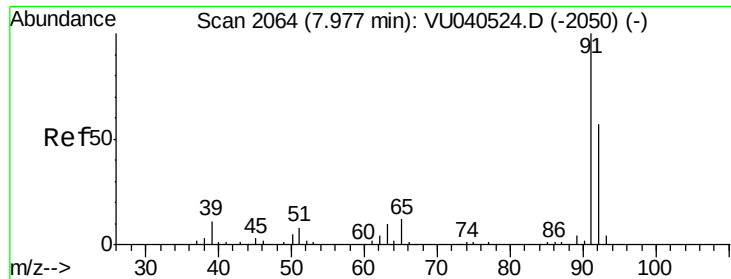
Tot Ion: 75 Resp: 8502
 Ion Ratio Lower Upper
 75 100
 77 28.9 21.4 39.8



#40
 4-Methyl-2-pentanone
 Concen: 4.665 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion: 43 Resp: 18042
 Ion Ratio Lower Upper
 43 100
 58 35.2 29.7 44.5
 100 8.0 10.5 15.7#





#42

Toluene

Concen: 2.444 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

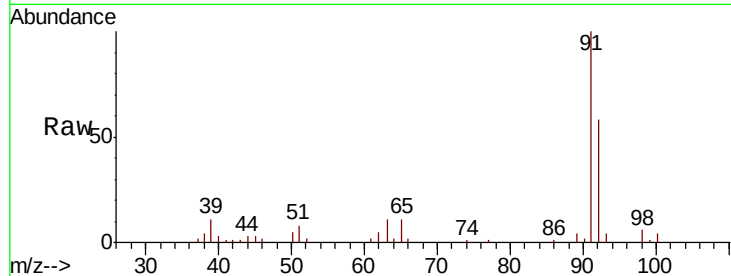
MDL-WATER-04

Tot Ion: 91 Resp: 22271

Ion Ratio Lower Upper

91 100

92 57.6 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VU040524.D (-2050) (-)

Ion 92.00 (91.70 to 92.70): VU040524.D (-2050) (-)

7.98

15000

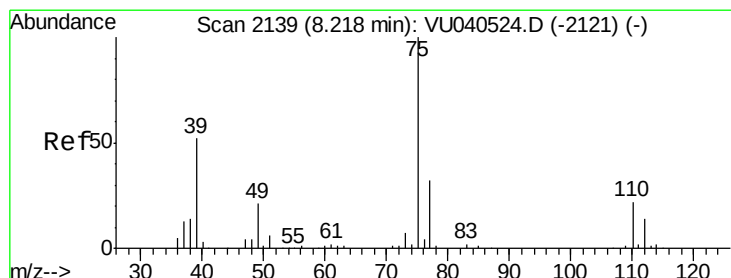
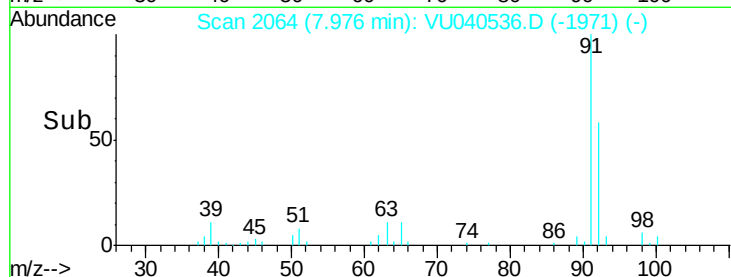
10000

5000

0

7.95 8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.429 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU040536.D

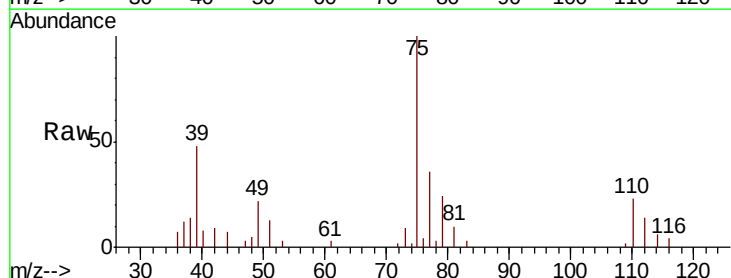
Acq: 06 Oct 2020 18:59

Tgt Ion: 75 Resp: 8785

Ion Ratio Lower Upper

75 100

77 35.8 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU040524.D (-2121) (-)

Ion 77.00 (76.70 to 77.70): VU040524.D (-2121) (-)

8.22

6000

5000

4000

3000

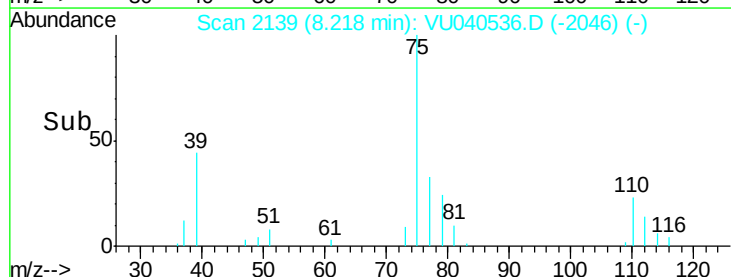
2000

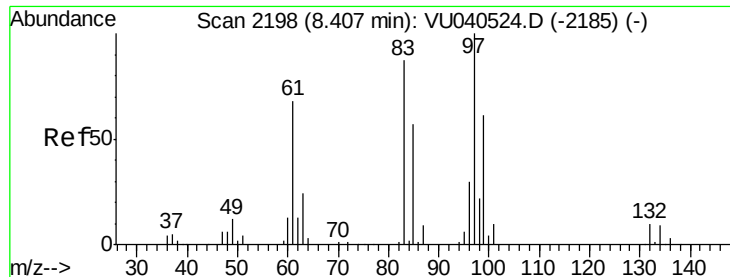
1000

0

8.20 8.25

Time-->

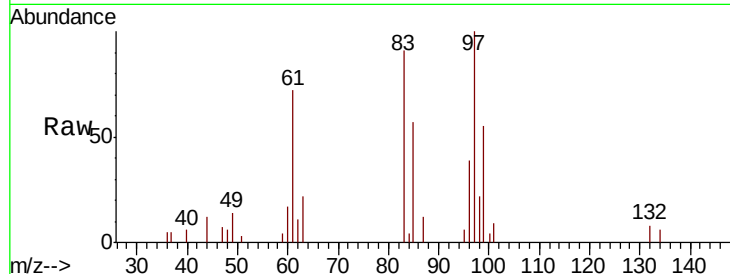




#45
 1,1,2-Trichloroethane
 Concen: 2.428 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

Tot Ion:	97	Resp:	5331
Ion	Ratio	Lower	Upper
97	100		
99	54.7	42.7	79.3
83	91.3	61.0	113.4
85	57.2	39.8	73.8



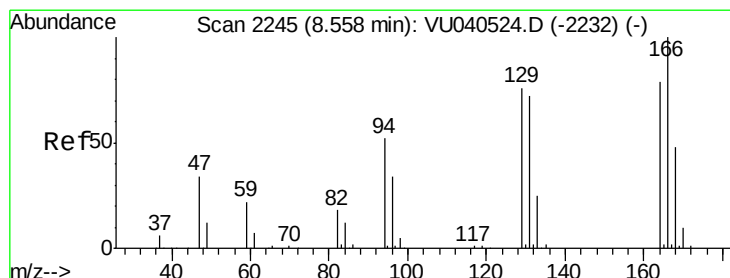
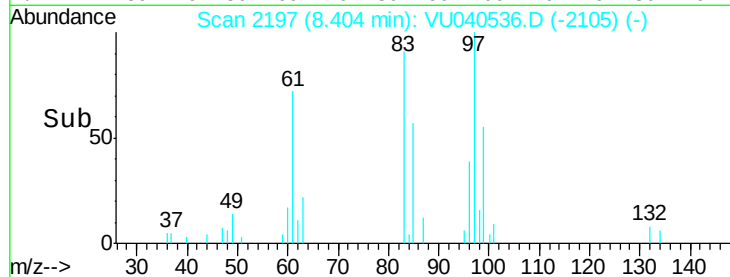
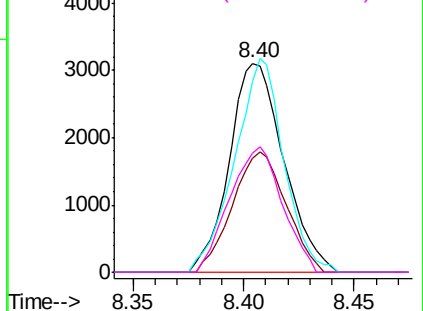
Abundance

Ion 97.00 (96.70 to 97.70): VU040536.D (-2105) (-)

Ion 99.00 (98.70 to 99.70): VU040536.D (-2105) (-)

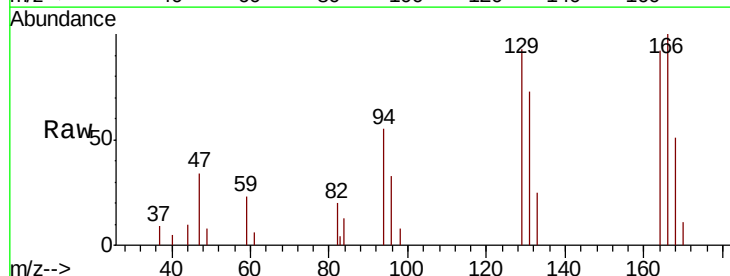
Ion 83.00 (82.70 to 83.70): VU040536.D (-2105) (-)

Ion 85.00 (84.70 to 85.70): VU040536.D (-2105) (-)



#46
 Tetrachloroethene
 Concen: 2.563 ug/L
 RT: 8.56 min Scan# 2246
 Delta R.T. 0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion:	164	Resp:	4258
Ion	Ratio	Lower	Upper
164	100		
129	100.4	67.4	125.2
131	79.0	63.8	118.6
166	108.2	88.7	164.7



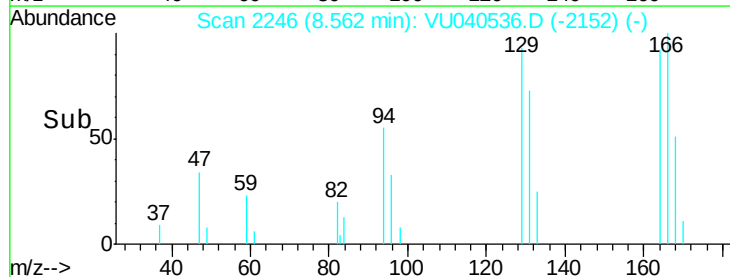
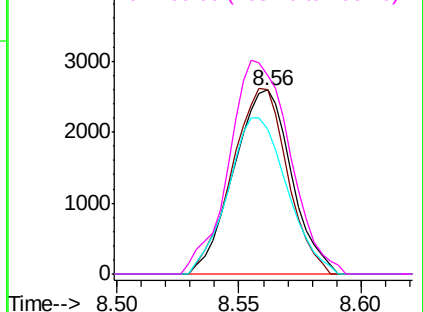
Abundance

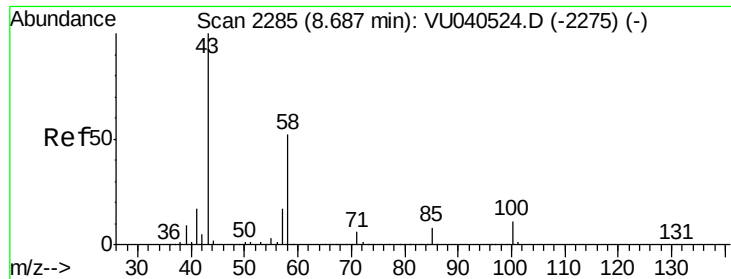
Ion 164.00 (163.70 to 164.70): VU040536.D (-2152) (-)

Ion 129.00 (128.70 to 129.70): VU040536.D (-2152) (-)

Ion 131.00 (130.70 to 131.70): VU040536.D (-2152) (-)

Ion 166.00 (165.70 to 166.70): VU040536.D (-2152) (-)

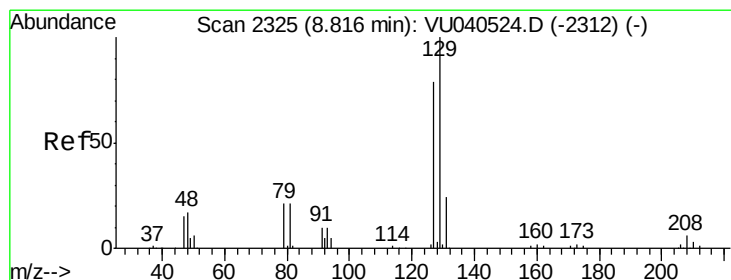
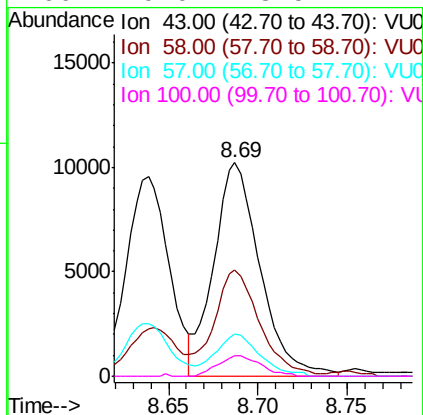
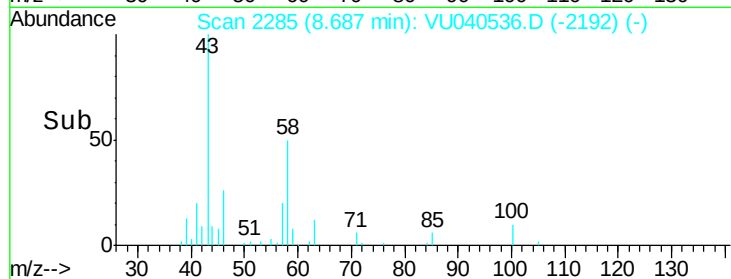
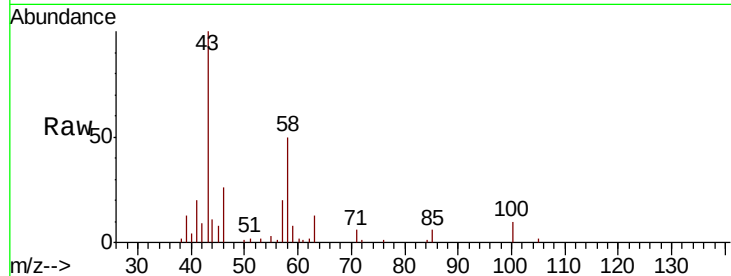




#48
2-Hexanone
Concen: 5.886 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

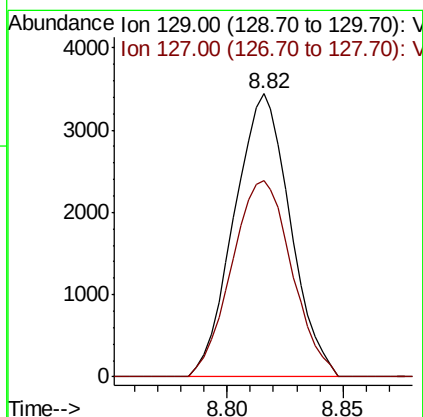
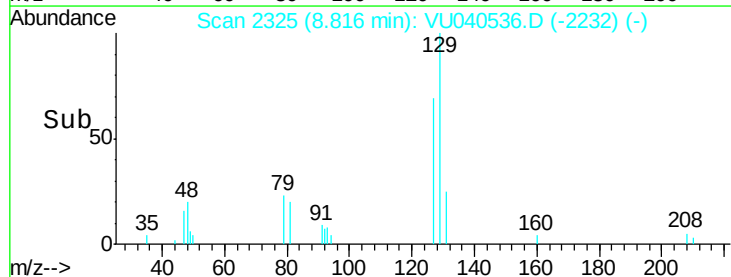
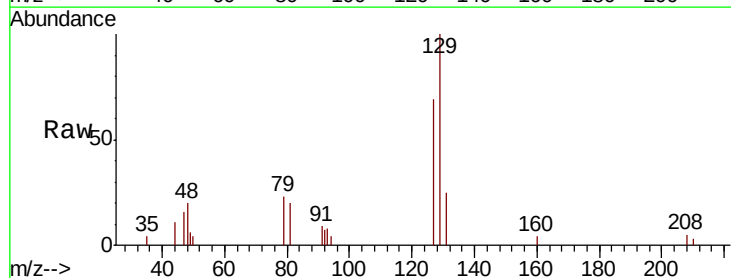
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-04

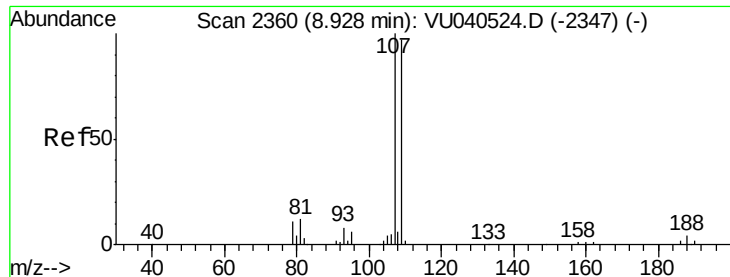
Tot Ion:	43	Resp:	18500
Ion	Ratio	Lower	Upper
43	100		
58	48.8	40.6	60.8
57	18.9	14.3	21.5
100	9.0	8.5	12.7



#49
Dibromochloromethane
Concen: 2.406 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion:	129	Resp:	5769
Ion	Ratio	Lower	Upper
129	100		
127	69.5	54.9	102.1

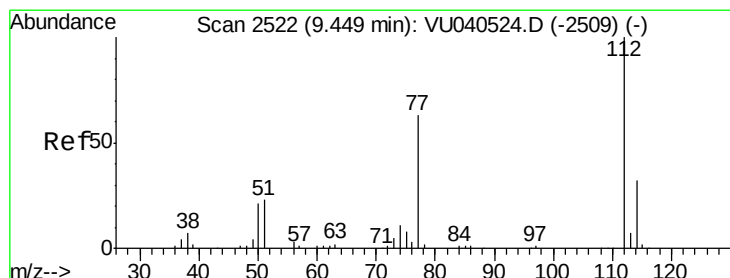
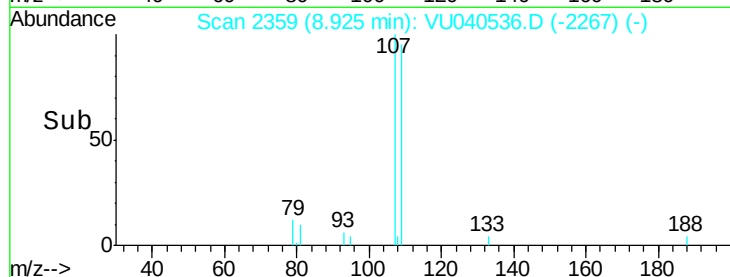
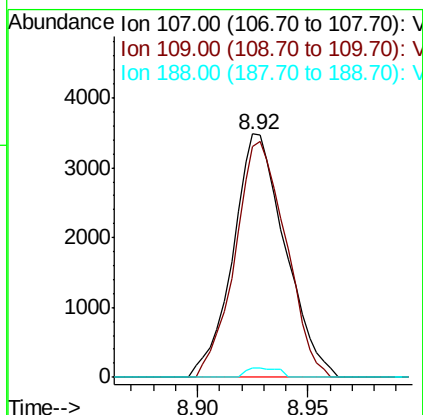
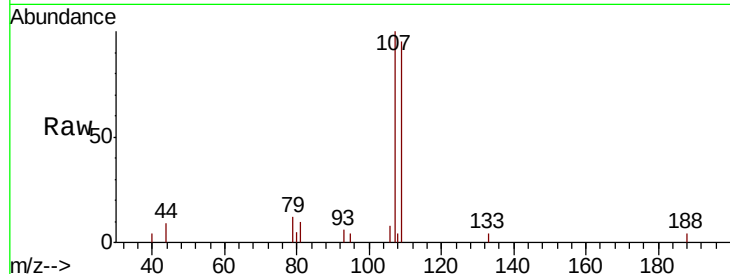




#50
1,2-Dibromoethane
Concen: 2.460 ug/L
RT: 8.92 min Scan# 2359
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

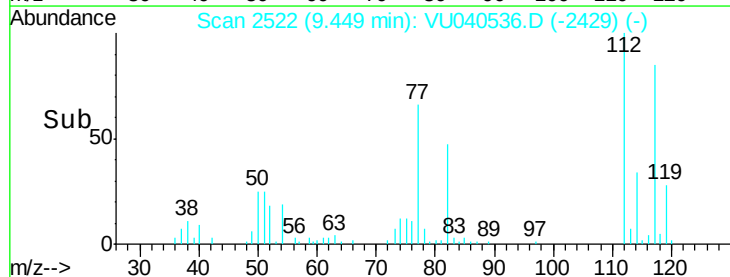
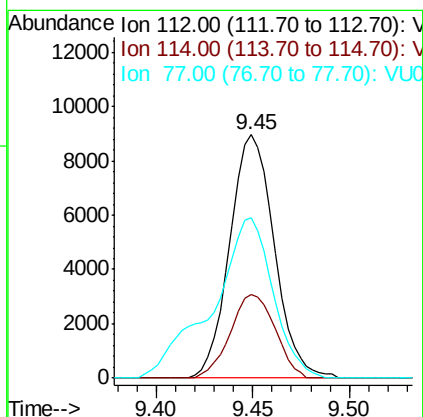
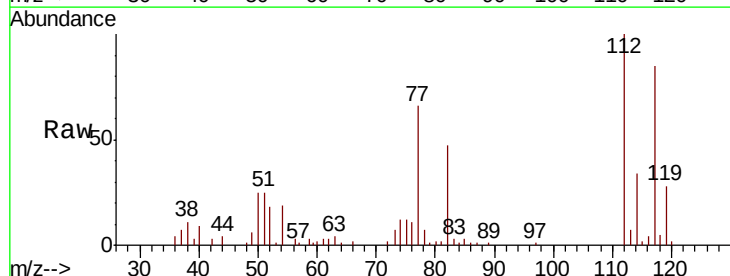
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-04

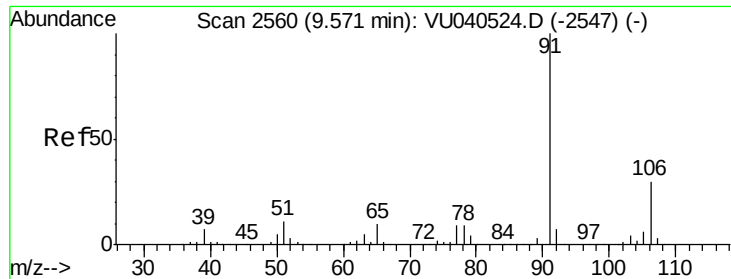
Tot Ion:107 Resp: 5725
Ion Ratio Lower Upper
107 100
109 94.9 67.8 125.8
188 3.7 2.8 4.2



#51
Chlorobenzene
Concen: 2.405 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion:112 Resp: 14376
Ion Ratio Lower Upper
112 100
114 34.2 22.1 41.1
77 65.7 50.4 75.6





#52

Ethylbenzene

Concen: 2.212 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

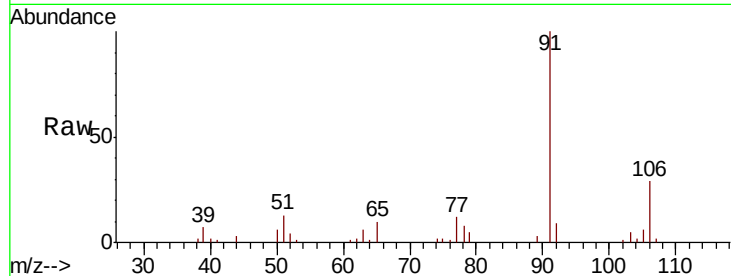
MDL-WATER-04

Tot Ion: 91 Resp: 22369

Ion Ratio Lower Upper

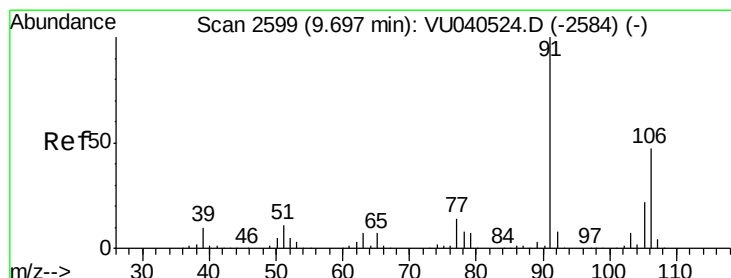
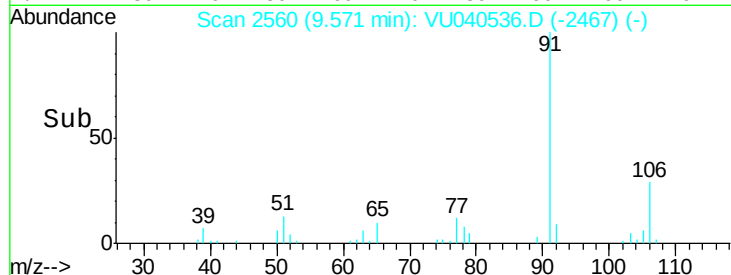
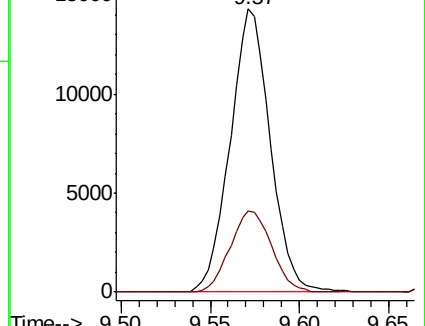
91 100

106 28.9 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040524.D (-2547) (-)

Ion 106.00 (105.70 to 106.70): VU040524.D (-2547) (-)



#53

m,p-Xylene

Concen: 2.249 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU040536.D

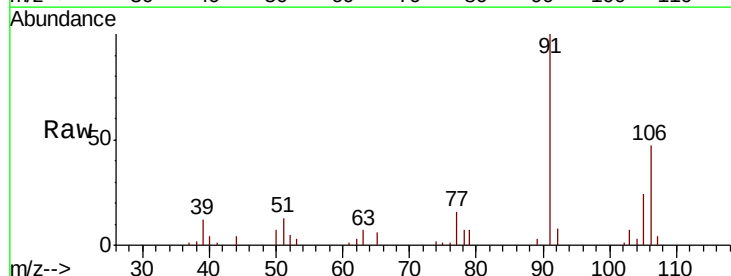
Acq: 06 Oct 2020 18:59

Tgt Ion: 106 Resp: 8375

Ion Ratio Lower Upper

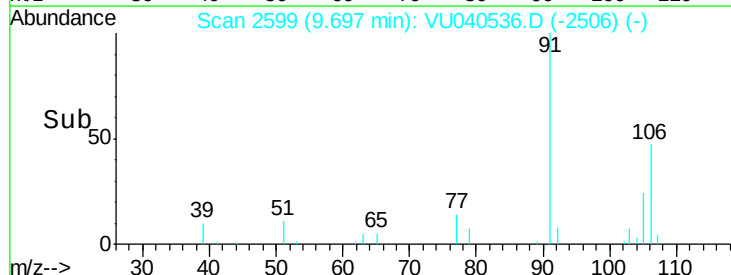
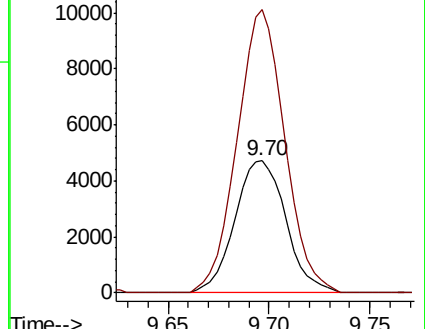
106 100

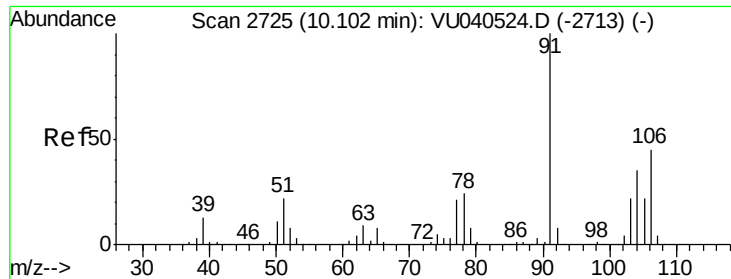
91 214.0 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): VU040524.D (-2584) (-)

Ion 91.00 (90.70 to 91.70): VU040524.D (-2584) (-)





#54

o-xylene

Concen: 2.118 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

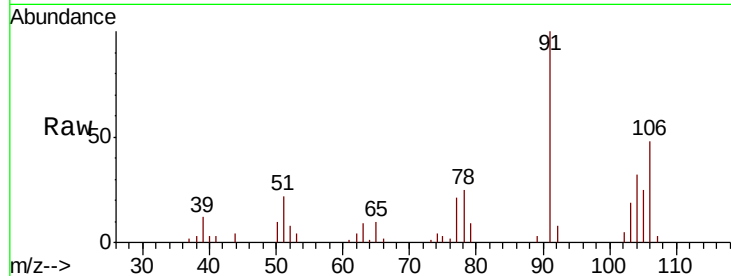
MDL-WATER-04

Tot Ion:106 Resp: 7504

Ion Ratio Lower Upper

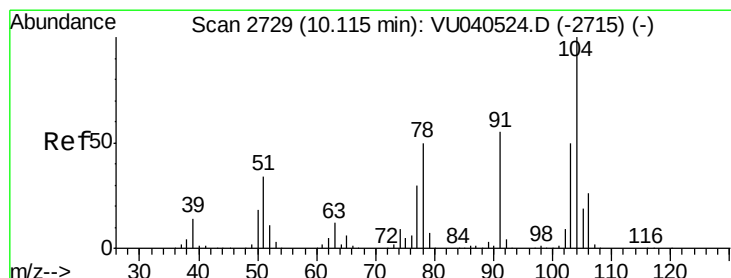
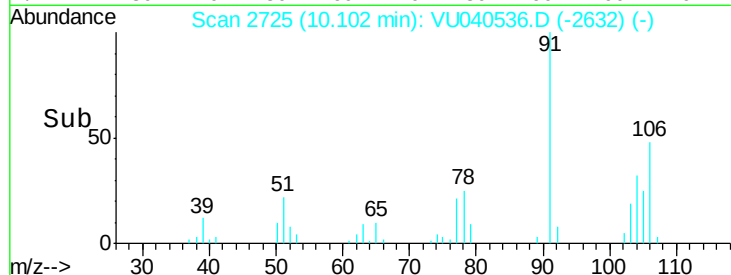
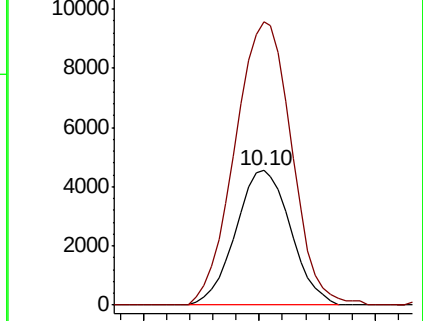
106 100

91 210.3 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.847 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU040536.D

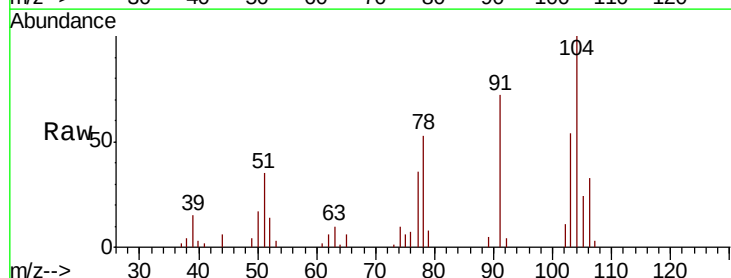
Acq: 06 Oct 2020 18:59

Tgt Ion:104 Resp: 11529

Ion Ratio Lower Upper

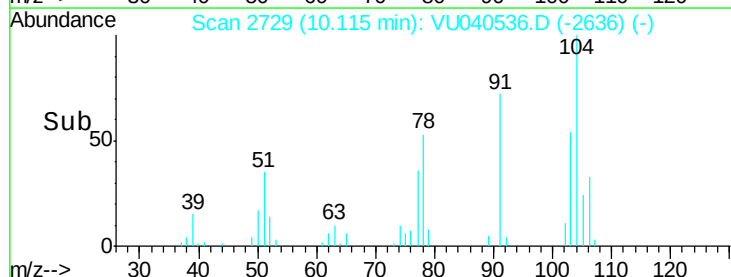
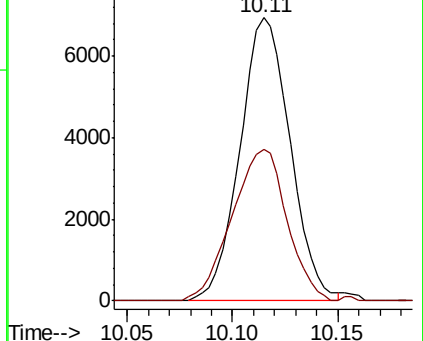
104 100

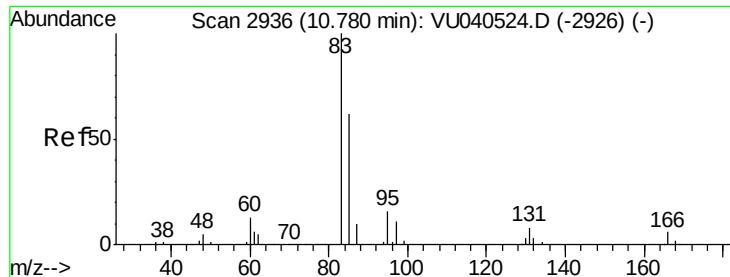
78 53.4 35.2 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

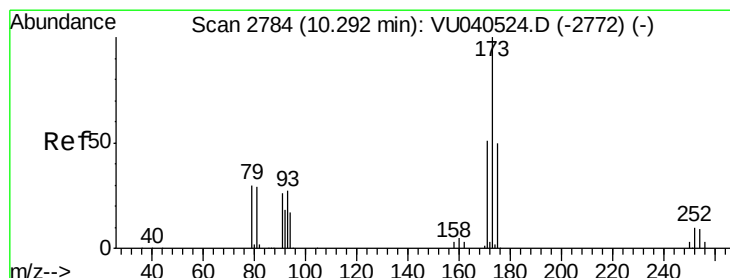
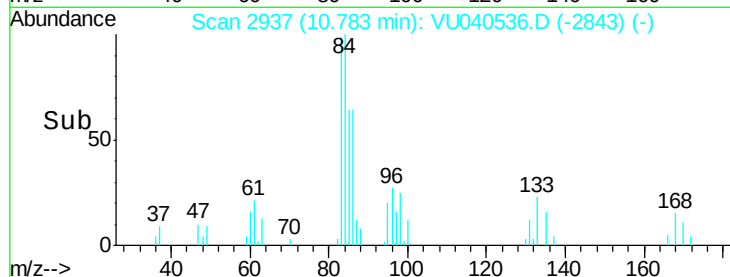
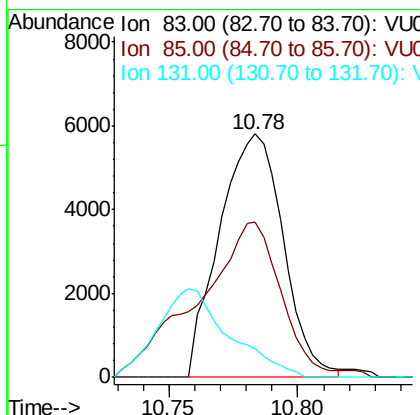
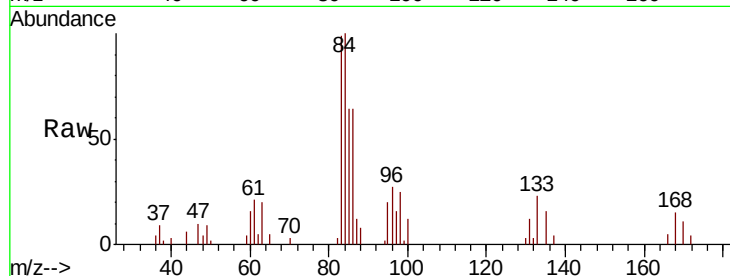




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.569 ug/L
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

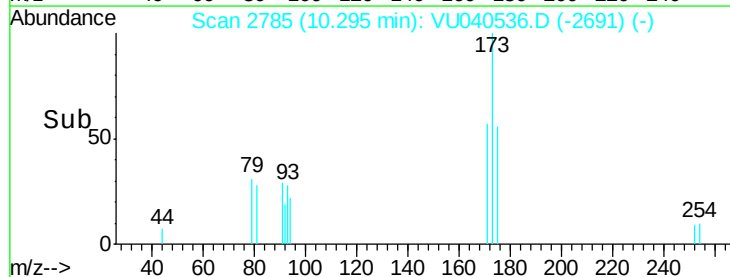
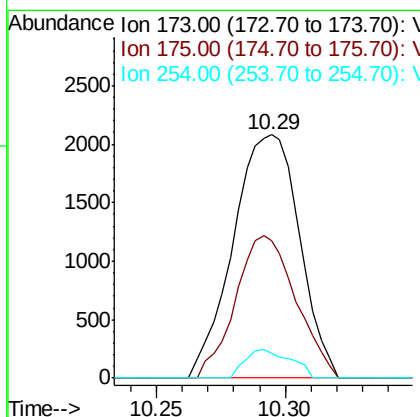
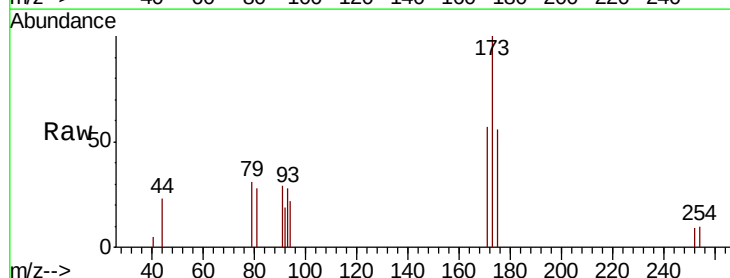
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

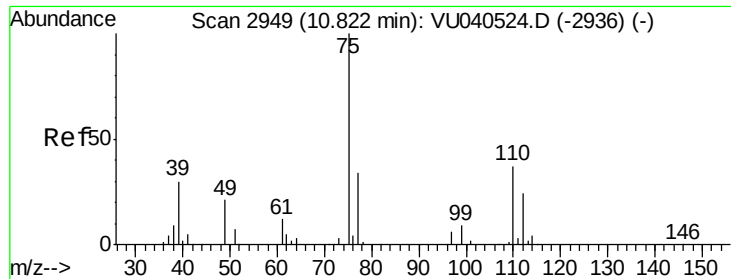
Tot Ion: 83 Resp: 9974
 Ion Ratio Lower Upper
 83 100
 85 63.9 44.2 82.2
 131 11.6 7.1 10.7#



#59
 Bromoform
 Concen: 2.399 ug/L
 RT: 10.29 min Scan# 2785
 Delta R.T. 0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion: 173 Resp: 3733
 Ion Ratio Lower Upper
 173 100
 175 53.2 38.5 57.7
 254 8.1 7.0 10.6

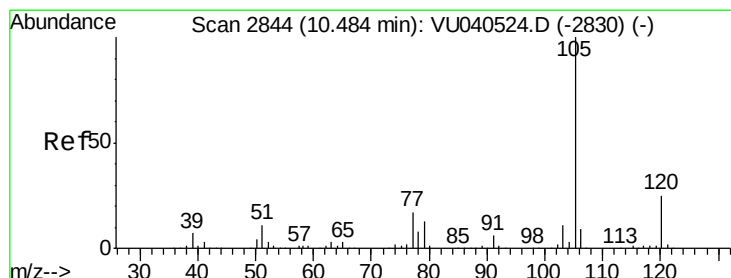
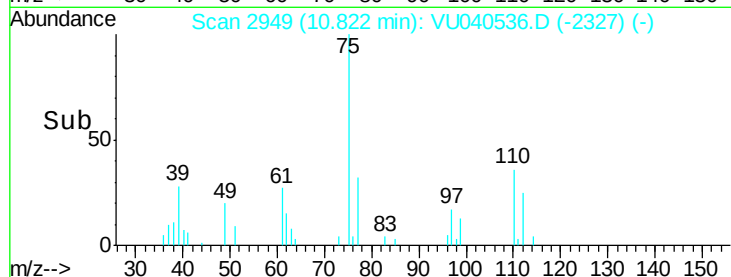
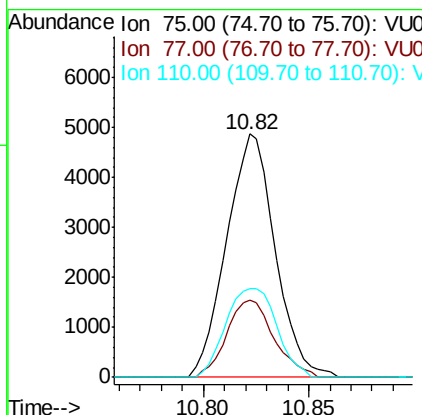
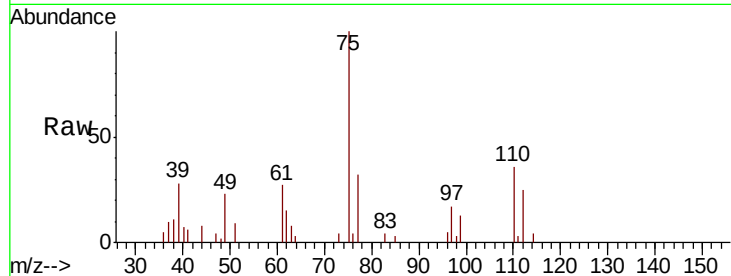




#60
 1,2,3-Trichloropropane
 Concen: 2.700 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

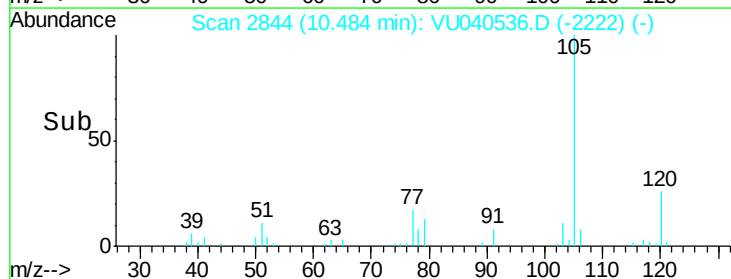
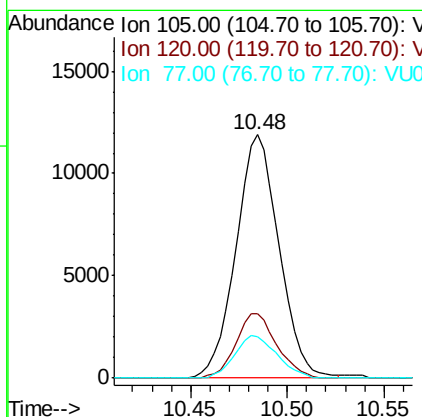
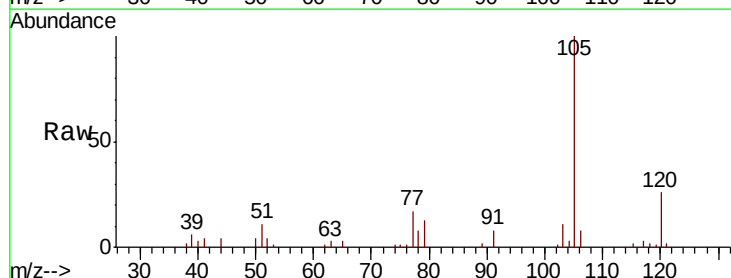
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

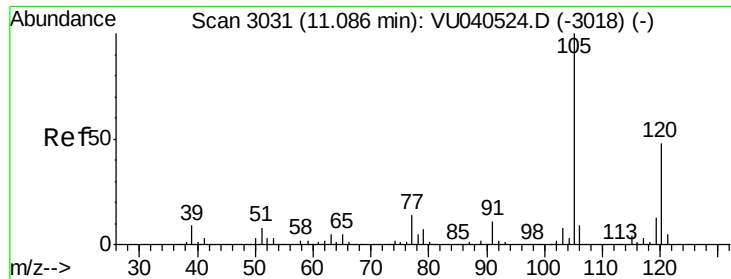
Tot Ion: 75 Resp: 7785
 Ion Ratio Lower Upper
 75 100
 77 30.9 26.4 39.6
 110 38.5 30.1 45.1



#61
 Isopropylbenzene
 Concen: 2.162 ug/L
 RT: 10.48 min Scan# 2844
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion: 105 Resp: 18432
 Ion Ratio Lower Upper
 105 100
 120 24.9 20.7 31.1
 77 17.0 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 1.962 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

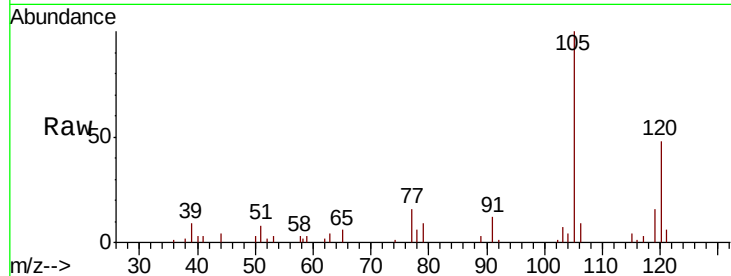
MDL-WATER-04

Tot Ion:105 Resp: 13745

Ion Ratio Lower Upper

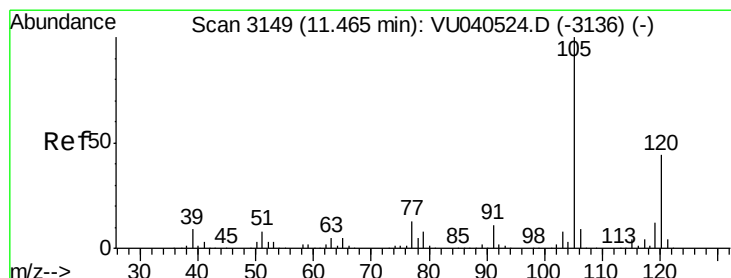
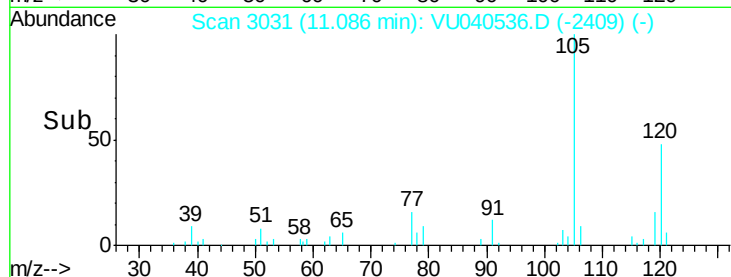
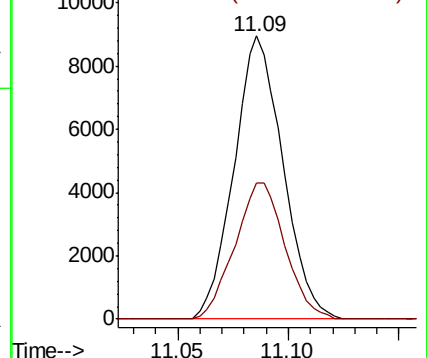
105 100

120 49.3 38.6 58.0



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: 1.910 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. -0.00 min

Lab File: VU040536.D

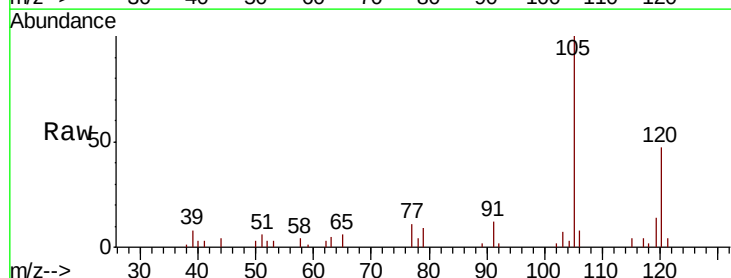
Acq: 06 Oct 2020 18:59

Tgt Ion:105 Resp: 13568

Ion Ratio Lower Upper

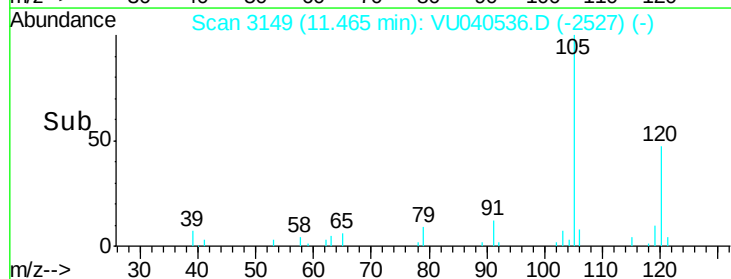
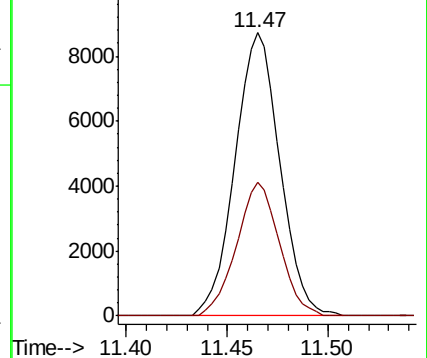
105 100

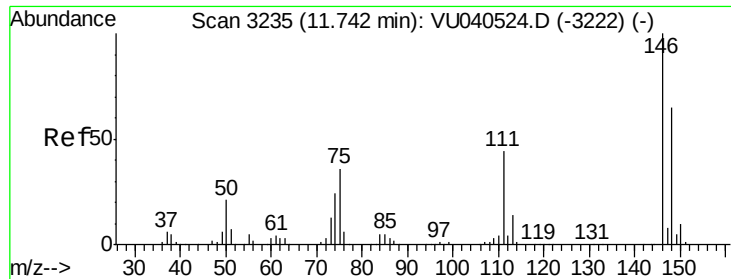
120 44.9 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.502 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-04

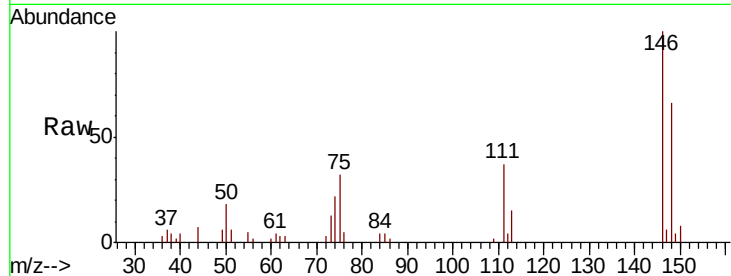
Tot Ion:146 Resp: 10401

Ion Ratio Lower Upper

146 100

111 37.3 30.8 57.2

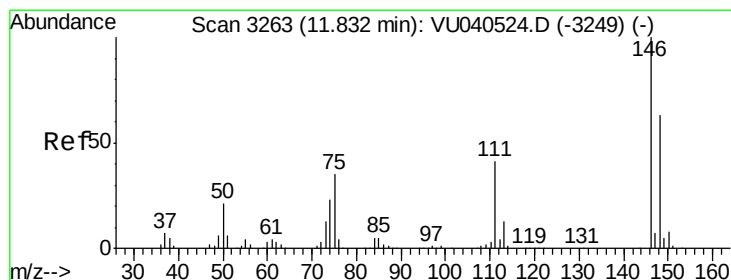
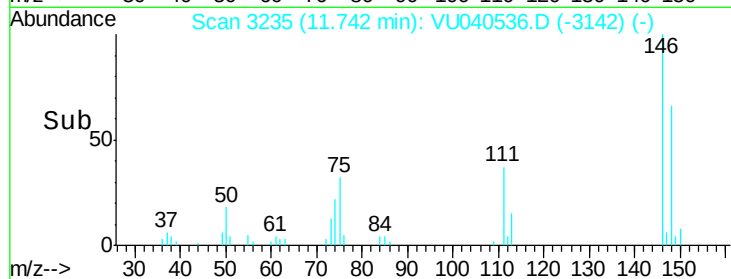
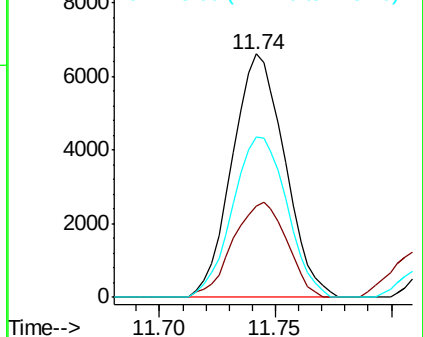
148 65.8 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 2.561 ug/L

RT: 11.83 min Scan# 3264

Delta R.T. 0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

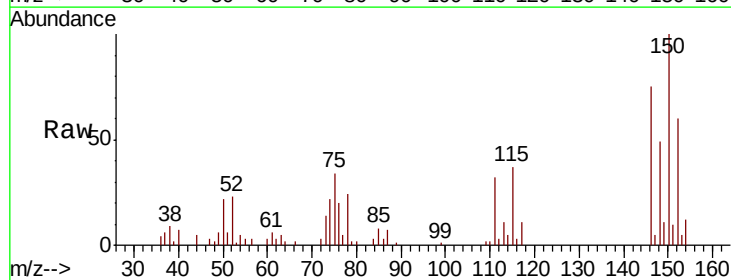
Tgt Ion:146 Resp: 11182

Ion Ratio Lower Upper

146 100

111 42.2 28.7 53.3

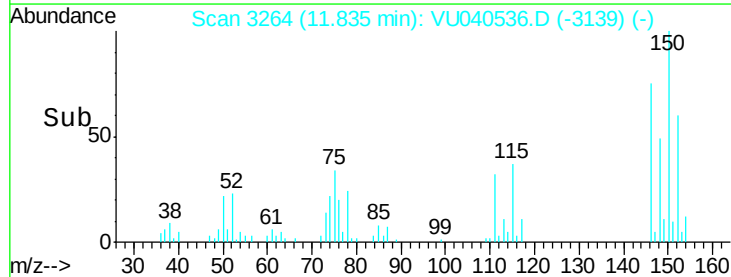
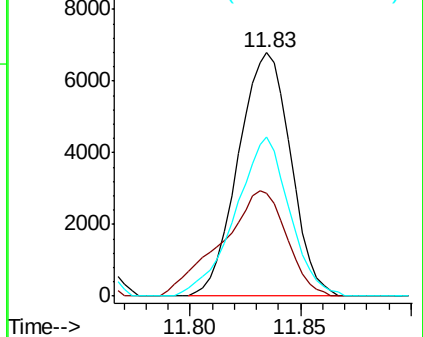
148 65.1 44.1 81.9

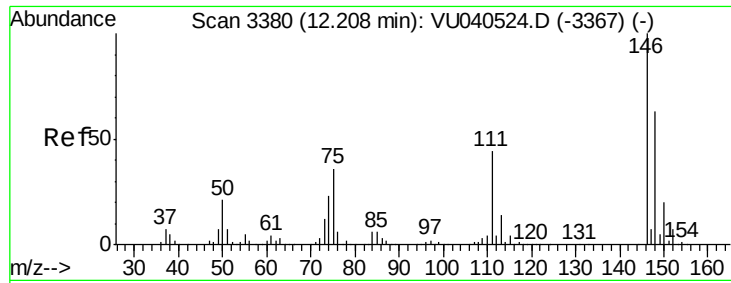


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

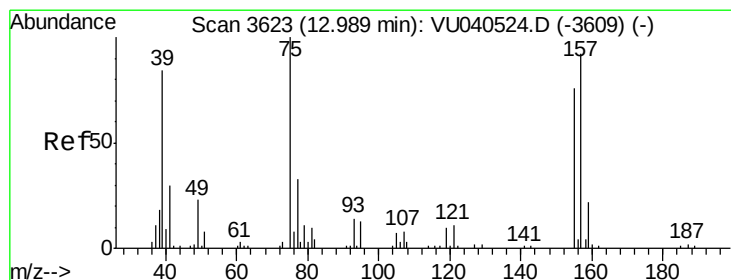
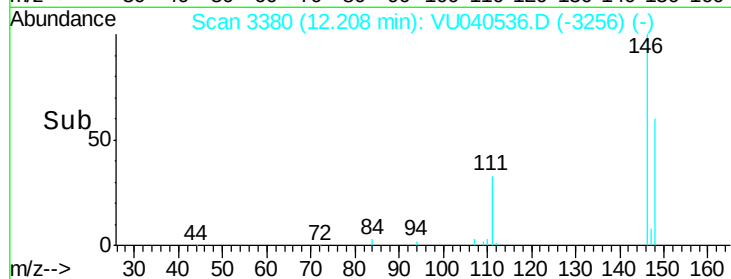
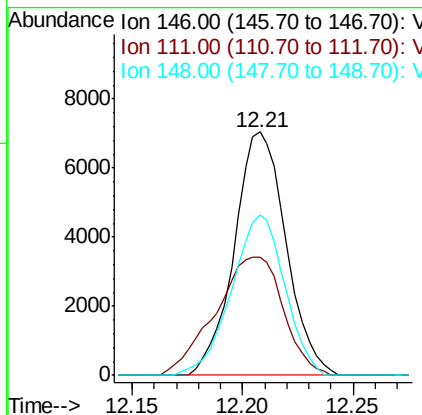
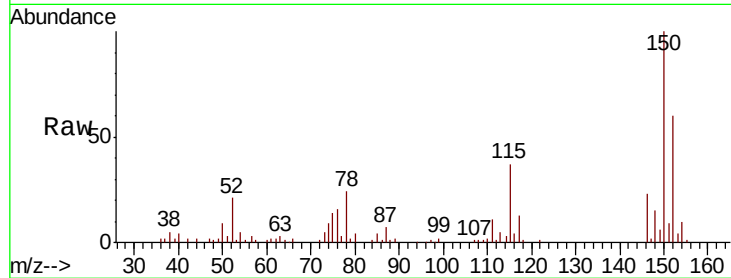




#67
 1,2-Dichlorobenzene
 Concen: 2.764 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

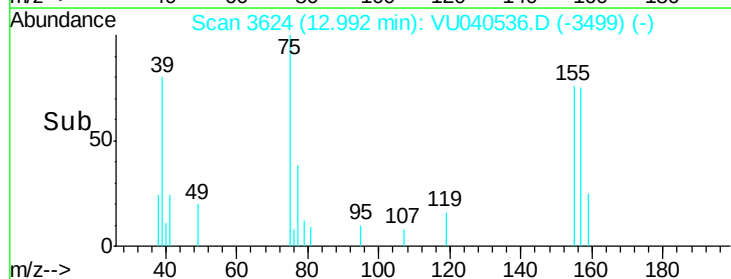
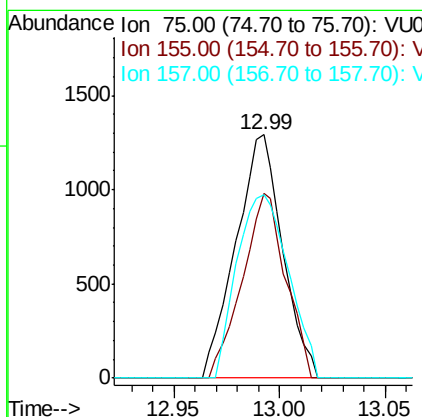
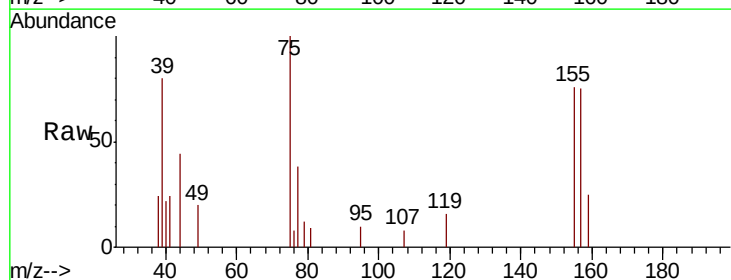
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

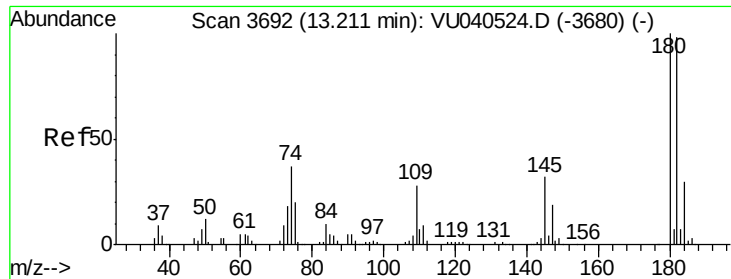
Tot Ion:146 Resp: 11509
 Ion Ratio Lower Upper
 146 100
 111 48.3 35.7 53.5
 148 66.0 50.6 75.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.437 ug/L
 RT: 12.99 min Scan# 3624
 Delta R.T. 0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion: 75 Resp: 1974
 Ion Ratio Lower Upper
 75 100
 155 76.0 61.0 91.6
 157 75.3 73.5 110.3

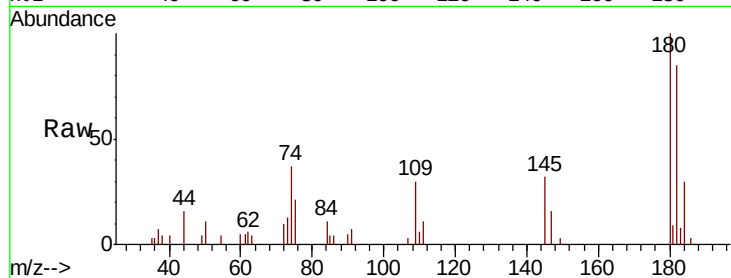




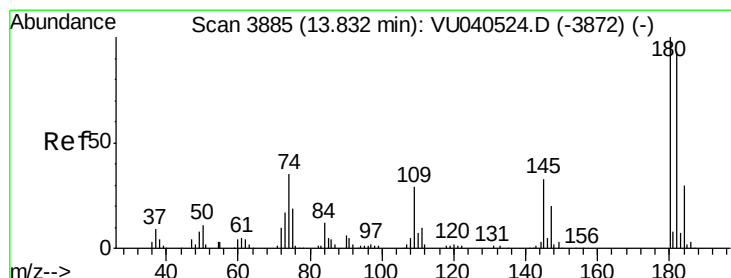
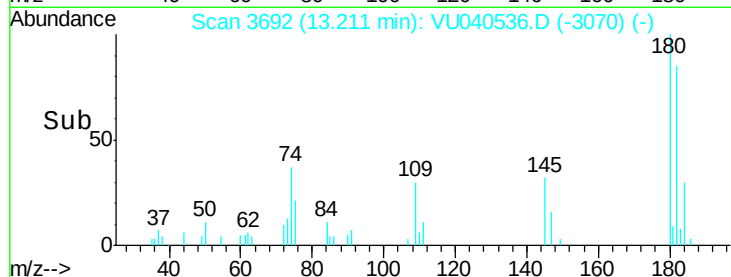
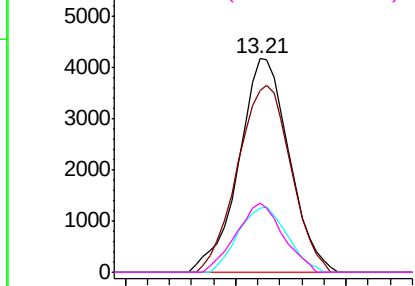
#69
 1,3,5-Trichlorobenzene
 Concen: 2.428 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-04

Tot Ion:180 Resp: 6612
 Ion Ratio Lower Upper
 180 100
 182 92.3 76.9 115.3
 184 29.7 24.2 36.2
 145 30.3 25.4 38.2

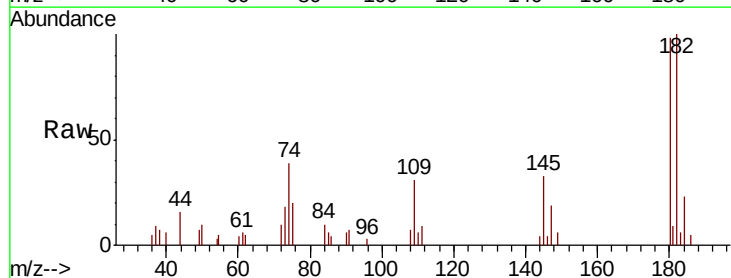


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

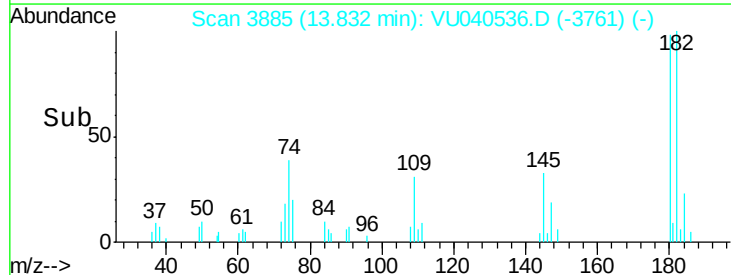
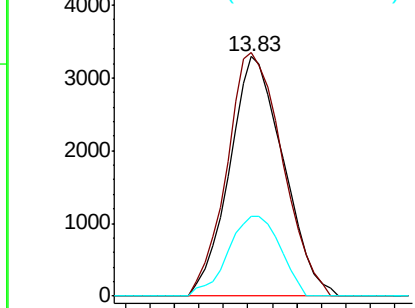


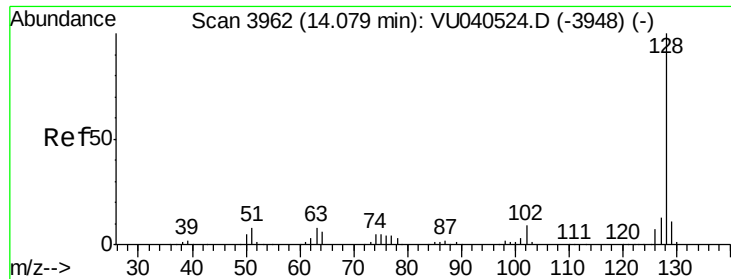
#70
 1,2,4-trichlorobenzene
 Concen: 2.140 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU040536.D
 Acq: 06 Oct 2020 18:59

Tgt Ion:180 Resp: 5051
 Ion Ratio Lower Upper
 180 100
 182 104.8 75.0 112.6
 145 32.3 25.9 38.9



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

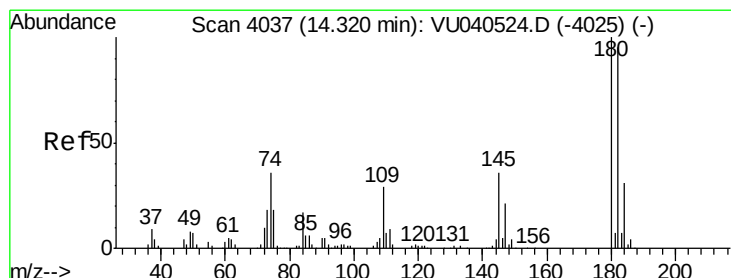
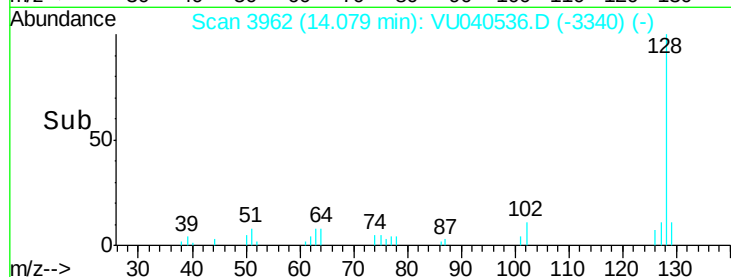
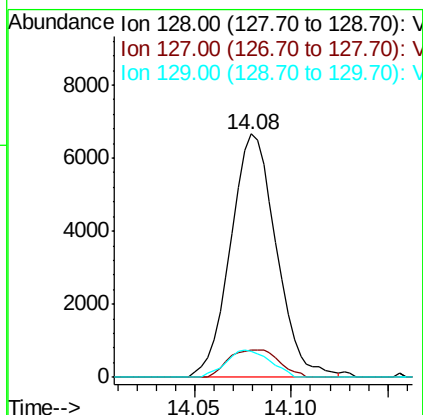
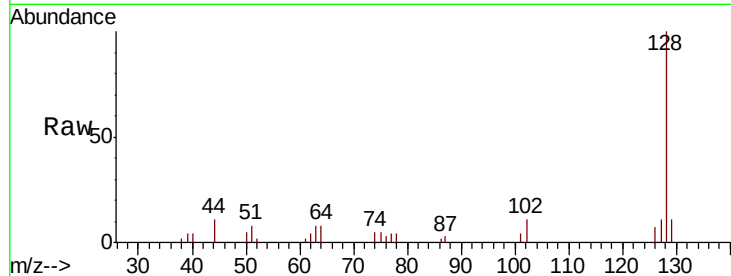




#71
Naphthalene
Concen: 1.501 ug/L
RT: 14.08 min Scan# 3962
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-04

Tot Ion:128 Resp: 10952
Ion Ratio Lower Upper
128 100
127 12.5 10.5 15.7
129 10.8 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 2.089 ug/L
RT: 14.32 min Scan# 4037
Delta R.T. -0.00 min
Lab File: VU040536.D
Acq: 06 Oct 2020 18:59

Tgt Ion:180 Resp: 4895
Ion Ratio Lower Upper
180 100
182 88.7 77.7 116.5
145 35.6 28.4 42.6

