

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U050520\
 Data File : VU038011.D
 Acq On : 05 May 2020 12:11
 Operator : JC/MD
 Sample : L2182-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 MDL-WATER-03-QT2-2020

Manual Integrations
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apatel
 5/6/2020 10:39:14 AM

Quant Time: May 06 01:27:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U050420DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue May 05 02:20:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.15	96	86401	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.65	95	32668	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
68) 1,2-Dichlorobenzene-d4	12.21	152	31475	0.97	ug/l	0.00
Spiked Amount 1.000			Recovery	=	97.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.39	85	6220	0.212	ug/l	93
3) Chloromethane	1.54	50	8742	0.252	ug/l	100
4) Vinyl Chloride	1.62	62	8166	0.236	ug/l	99
5) Bromomethane	1.87	94	4662	0.225	ug/l	92
6) Chloroethane	1.95	64	5369	0.260	ug/l	97
7) Trichlorofluoromethane	2.16	101	8246	0.229	ug/l	100
8) 1,1,2-Trichloro-1,2,2-trif	2.60	101	5113	0.227	ug/l	95
9) 1,1-Dichloroethene	2.60	96	5134	0.227	ug/l	93
11) Allyl Chloride	2.95	41	9556	0.228	ug/l	97
12) Acrylonitrile	3.35	53	2880	0.467	ug/l #	52
13) Acetone	2.66	43	7405	1.501	ug/l	90
14) Carbon Disulfide	2.82	76	19822	0.241	ug/l	99
15) Methylene Chloride	3.08	84	18270	0.585	ug/l	95
16) trans-1,2-Dichloroethene	3.39	96	5661	0.229	ug/l	89
17) 1,1-Dichloroethane	3.91	63	10846	0.232	ug/l	96
18) 2-Butanone	4.76	43	7736	1.046	ug/l	100
19) Cyclohexane	5.42	56	9303m	0.205	ug/l	
20) Methylcyclohexane	6.79	83	9573	0.215	ug/l	92
21) 2,2-Dichloropropane	4.71	77	8805	0.225	ug/l	97
22) cis-1,2-Dichloroethene	4.70	96	6212	0.238	ug/l	94
23) Diethyl Ether	2.40	59	5152	0.260	ug/l	95
24) tert-Butyl Alcohol	3.23	59	5721	2.605	ug/l	97
25) Methyl tert-Butyl Ether	3.41	73	13670	0.221	ug/l	97
26) Bromochloromethane	5.01	128	2287	0.218	ug/l	92
27) Chloroform	5.13	83	10625	0.242	ug/l	88
28) 1,1,1-Trichloroethane	5.35	97	8695	0.240	ug/l	91
29) 1,1-Dichloropropene	5.56	75	8689	0.239	ug/l	92
30) Carbon Tetrachloride	5.56	117	6410	0.212	ug/l	96
31) Isopropyl Ether	4.04	45	15447	0.200	ug/l	88
32) Ethyl-t-butyl ether	4.56	59	14619	0.210	ug/l	96
34) Propionitrile	4.83	54	2314	1.092	ug/l #	91
35) Benzene	5.81	78	22648	0.222	ug/l	95
36) 1,2-Dichloroethane	5.83	62	6916	0.229	ug/l #	93
37) Trichloroethene	6.57	130	6228	0.233	ug/l	98
38) 1,2-Dichloropropane	6.82	63	6158	0.224	ug/l #	83
39) Methacrylonitrile	5.02	41	2109	0.213	ug/l #	46
40) Methyl acrylate	4.89	55	3014	0.206	ug/l #	82
41) Tetrahydrofuran	5.11	42	2838	0.573	ug/l #	82
42) 1-Chlorobutane	5.49	56	11554	0.220	ug/l	97
43) Dibromomethane	6.95	93	2564	0.201	ug/l	97
44) Bromodichloromethane	7.13	83	6792	0.212	ug/l #	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.82	43	20128	1.156	ug/l	97
46) t-1,4-Dichloro-2-butene	10.85	75	1949m	0.362	ug/l	
47) Methyl methacrylate	6.99	69	4800	0.369	ug/l #	89
48) Ethyl methacrylate	8.36	69	5070	0.211	ug/l	98
49) Toluene	8.00	92	13538	0.210	ug/l	97
52) 1,1,2-Trichloroethane	8.43	97	3656	0.202	ug/l	95
53) 1,3-Dichloropropane	8.60	76	7791	0.229	ug/l	94
54) 2-Hexanone	8.71	43	13776	1.121	ug/l	99
56) 1,2-Dibromoethane	8.95	107	3468	0.203	ug/l	98
58) Tetrachloroethene	8.58	164	6007	0.240	ug/l	91
59) Chlorobenzene	9.47	112	15056	0.220	ug/l	92
60) 1,1,1,2-Tetrachloroethane	9.56	131	4177	0.201	ug/l	94
63) Ethyl Benzene	9.59	91	24772	0.203	ug/l	99
64) m/p-Xylenes	9.71	106	18504	0.395	ug/l	100
69) Isopropylbenzene	10.50	105	24264	0.203	ug/l	97
70) 1,1,2,2-Tetrachloroethane	10.80	83	5373	0.232	ug/l #	96
71) 1,2,3-Trichloropropane	10.84	75	4858m	0.283	ug/l	
74) 2-Chlorotoluene	11.00	126	5891	0.214	ug/l	94
80) Nitrobenzene	13.24	77	806m	1.172	ug/l	
82) 1,3-Dichlorobenzene	11.76	146	13250	0.240	ug/l	95
83) 1,4-Dichlorobenzene	11.85	146	13064	0.234	ug/l	98
84) n-Butylbenzene	12.22	91	21839	0.201	ug/l	94
85) 1,2-Dichlorobenzene	12.23	146	11523	0.224	ug/l	94
86) 1,2-Dibromo-3-Chloropropan	13.02	75	885	0.242	ug/l	84
87) 1,2,4-Trichlorobenzene	13.87	180	8840	0.235	ug/l	95
89) Naphthalene	14.12	128	15920	0.221	ug/l	98
90) 1,2,3-Trichlorobenzene	14.37	180	7788	0.233	ug/l	99

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

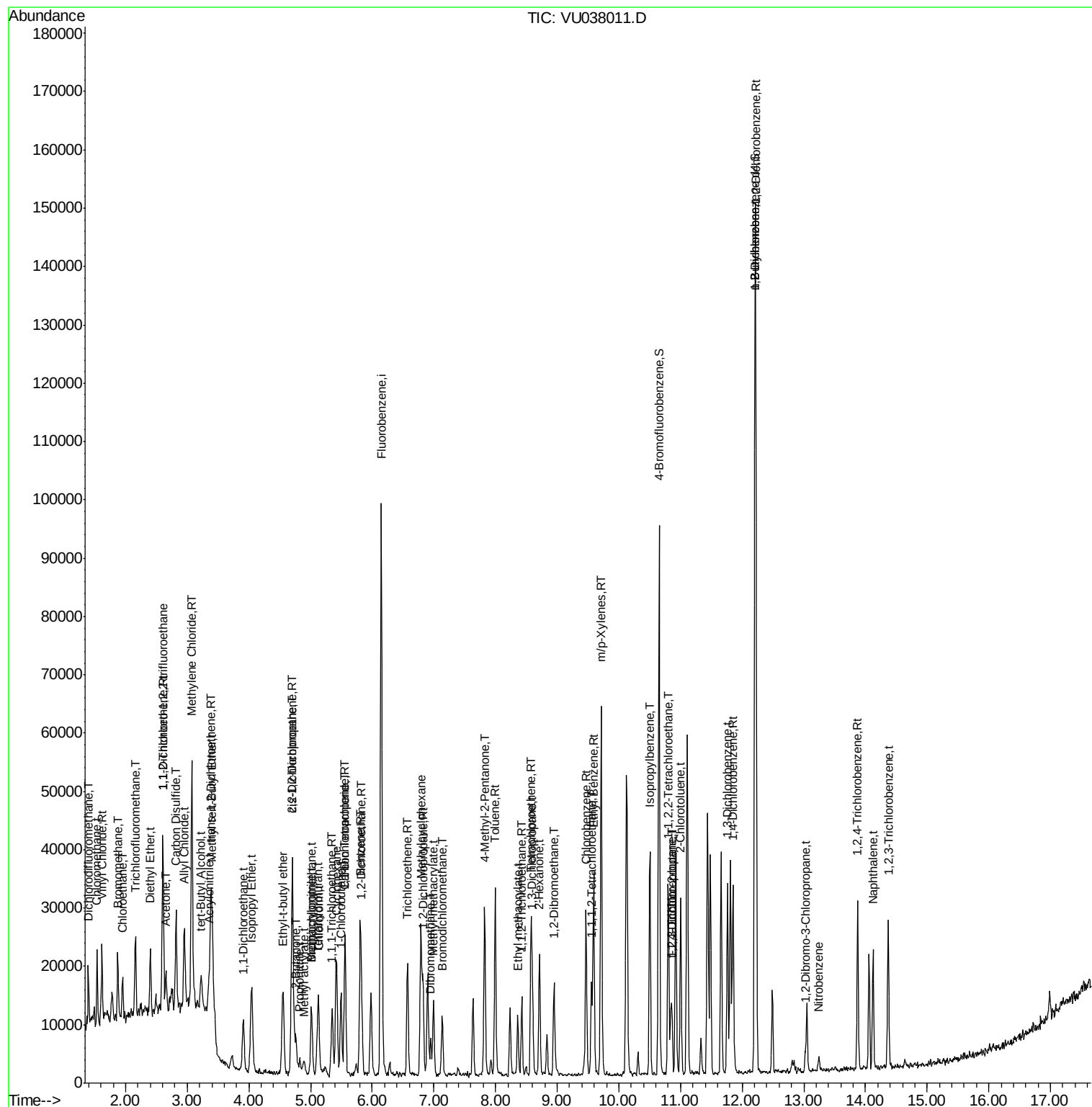
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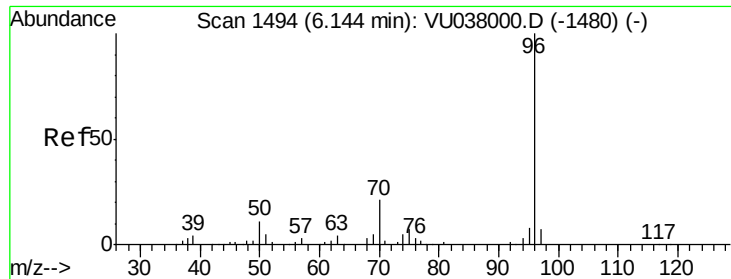
Instrument :
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.15 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

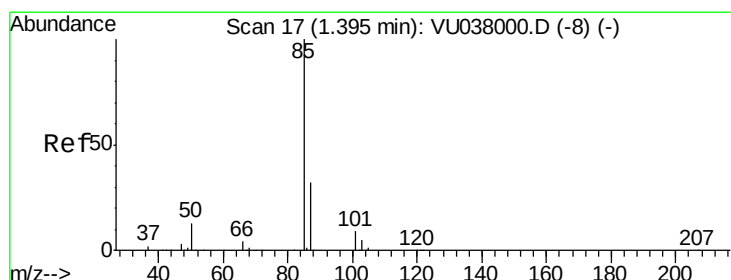
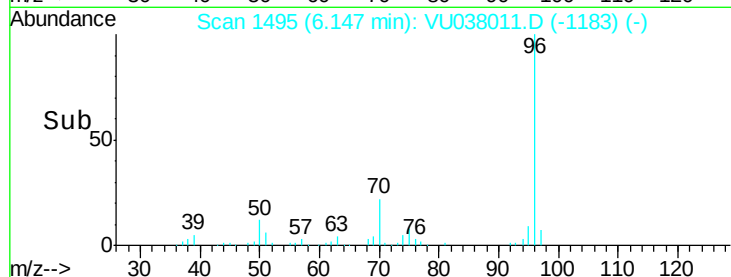
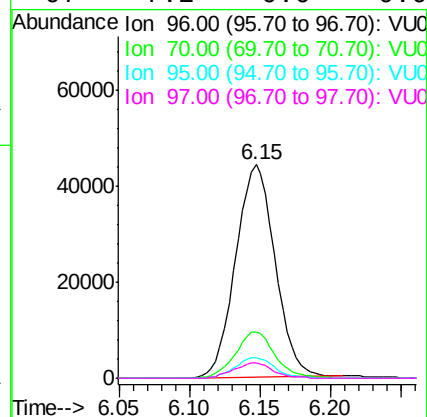
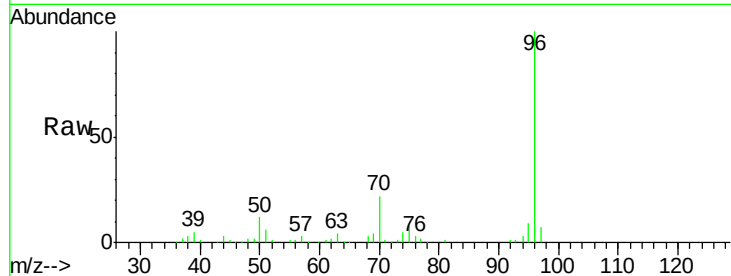
ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
70	22.1	14.4	21.6#	
95	9.8	7.1	10.7	
97	7.2	0.0	0.0#	

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#2

Dichlorodifluoromethane

Concen: 0.212 ug/l

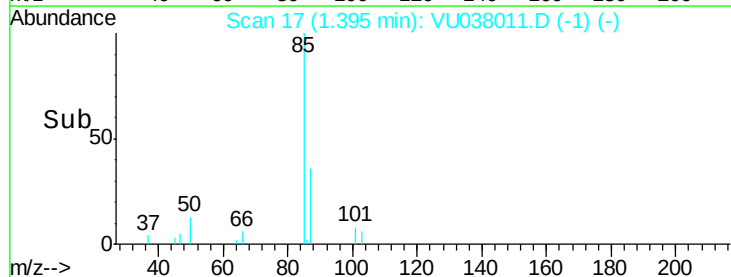
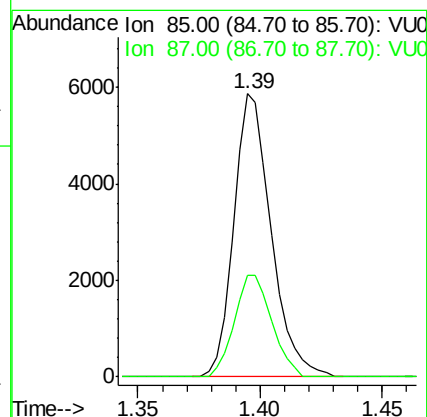
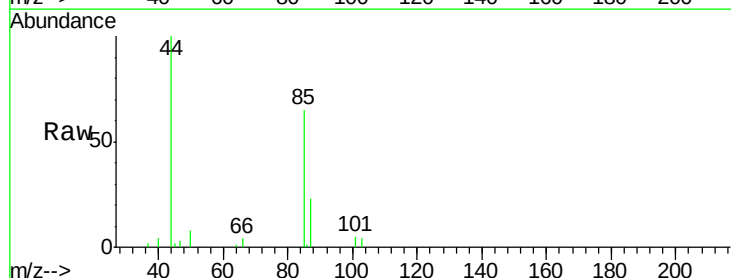
RT: 1.39 min Scan# 17

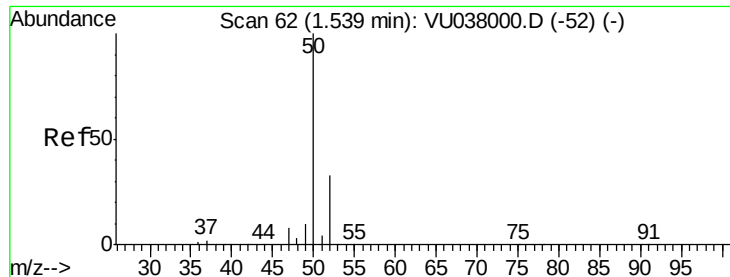
Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion	Ion	Ratio	Lower	Upper
85	100			
87	36.0	16.2	48.5	





#3

Chloromethane

Concen: 0.252 ug/l

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion: 50 Resp: 8742

Ion Ratio Lower Upper

50 100

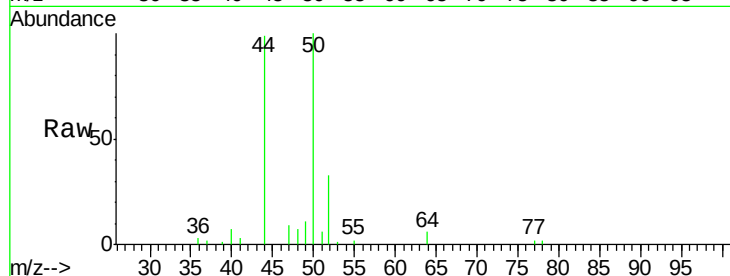
52 32.7 26.1 39.1

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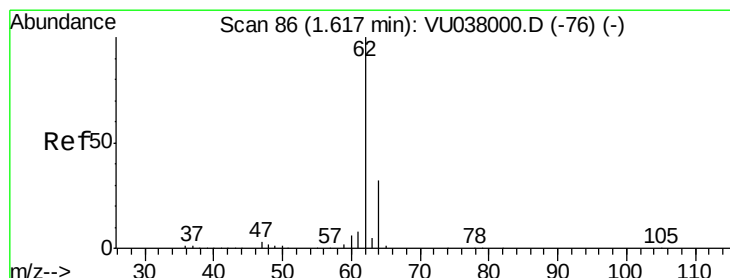
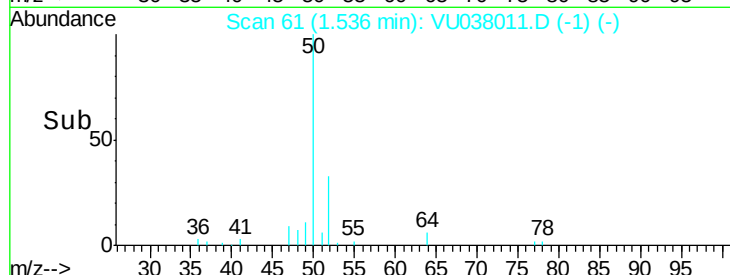
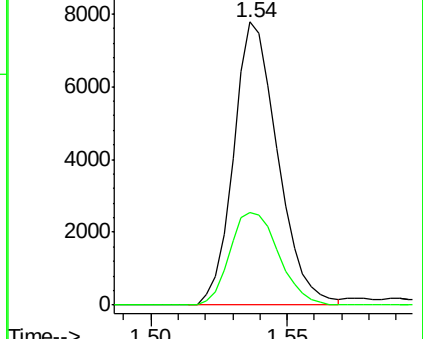
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Abundance Ion 50.00 (49.70 to 50.70): VU038011.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU038011.D (-1) (-)



#4

Vinyl Chloride

Concen: 0.236 ug/l

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038011.D

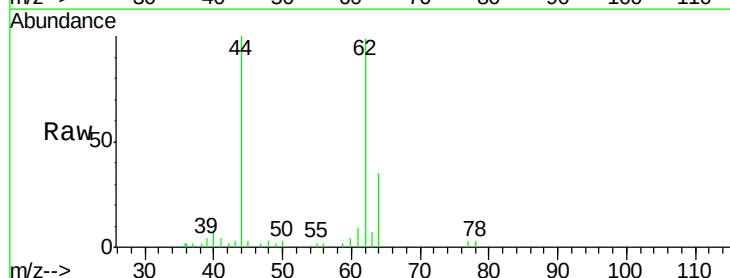
Acq: 05 May 2020 12:11

Tgt Ion: 62 Resp: 8166

Ion Ratio Lower Upper

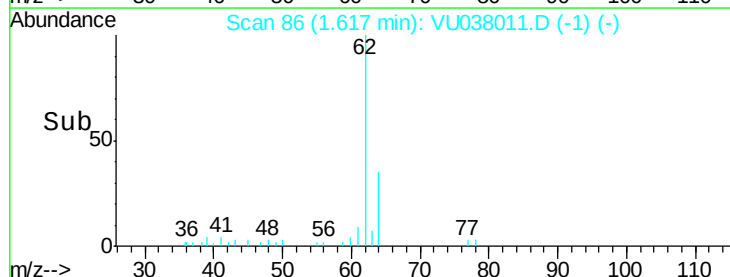
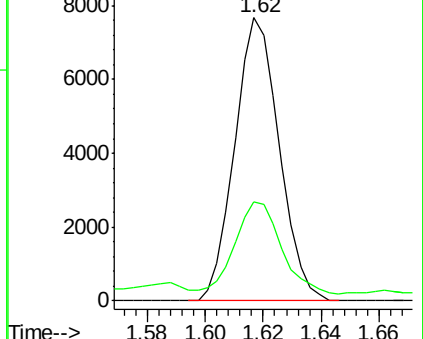
62 100

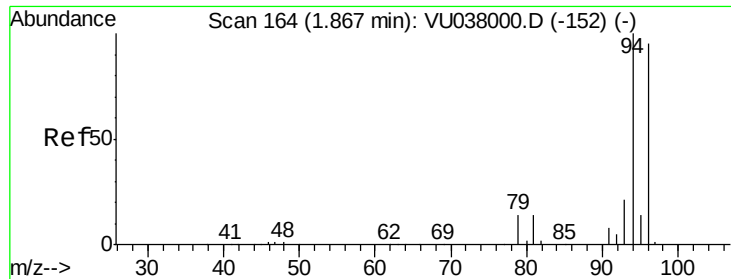
64 32.4 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VU038011.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU038011.D (-1) (-)





#5

Bromomethane

Concen: 0.225 ug/l

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

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Tot Ion: 94 Resp: 4662

Ion Ratio Lower Upper

94 100

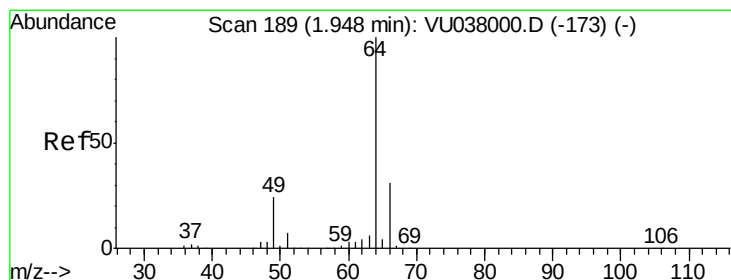
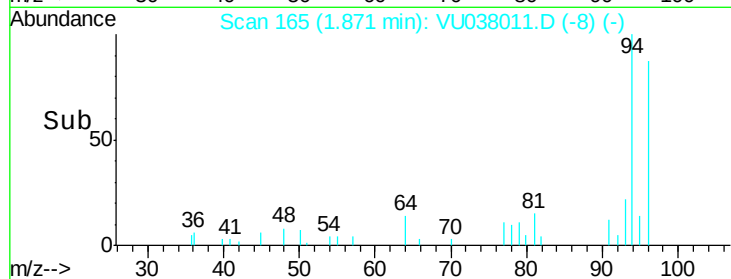
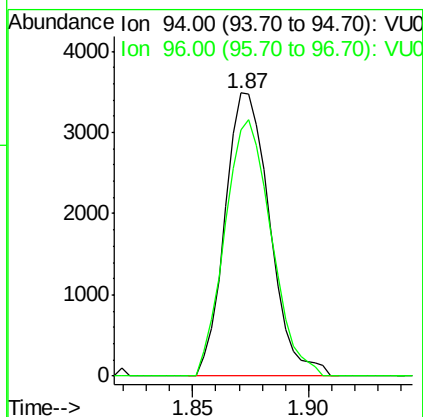
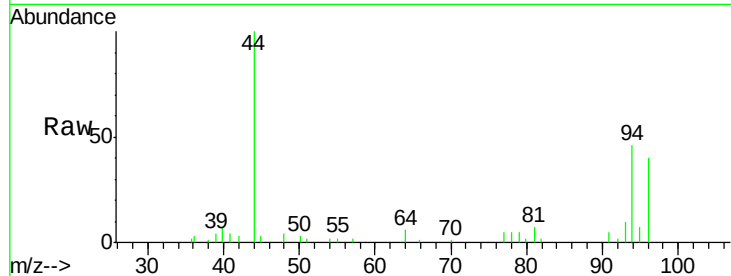
96 87.1 76.1 114.1

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#6

Chloroethane

Concen: 0.260 ug/l

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU038011.D

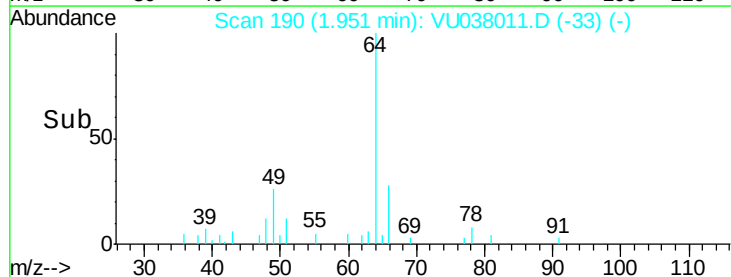
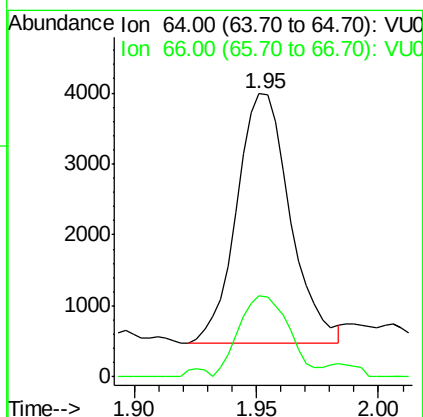
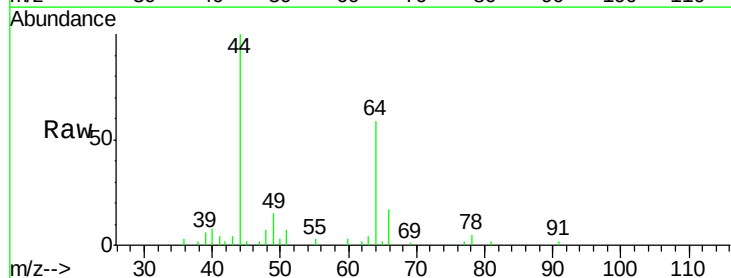
Acq: 05 May 2020 12:11

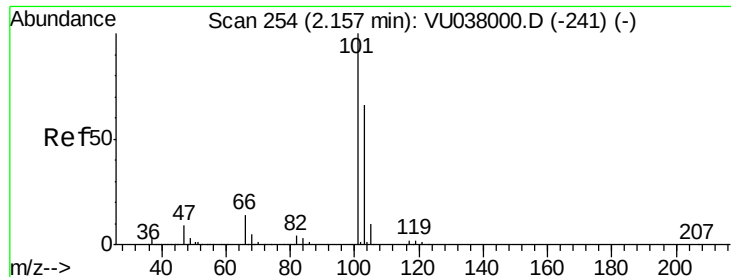
Tgt Ion: 64 Resp: 5369

Ion Ratio Lower Upper

64 100

66 29.3 24.8 37.2





#7

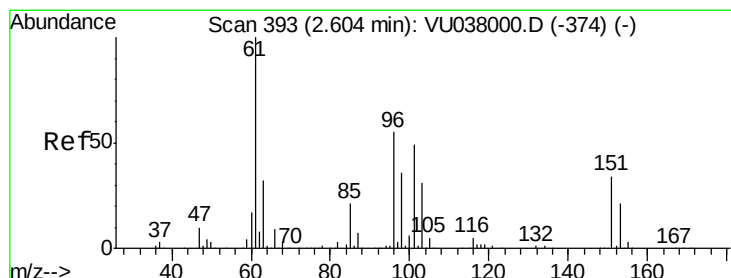
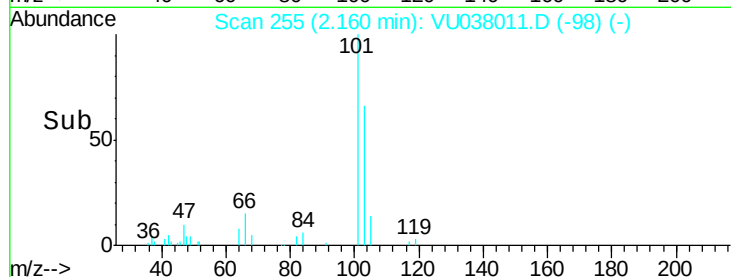
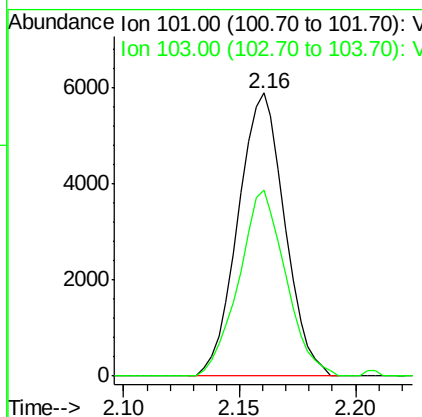
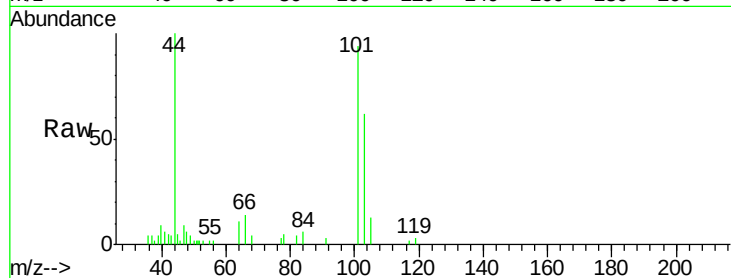
Trichlorofluoromethane
Concen: 0.229 ug/l
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

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ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	52.6	78.8

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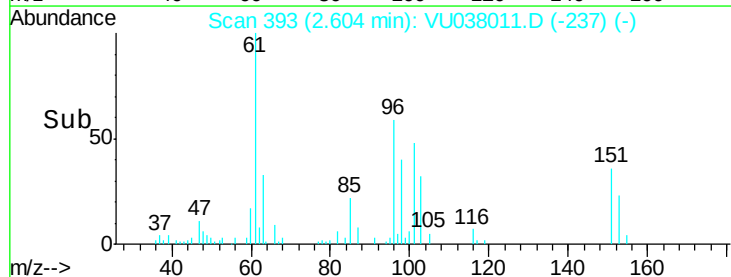
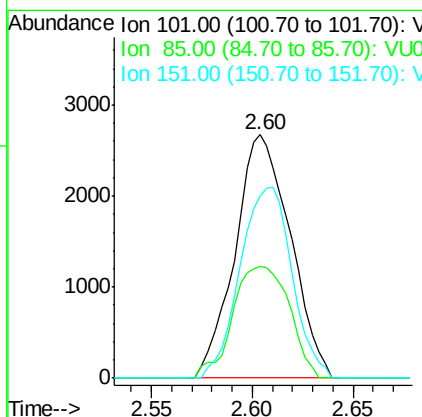
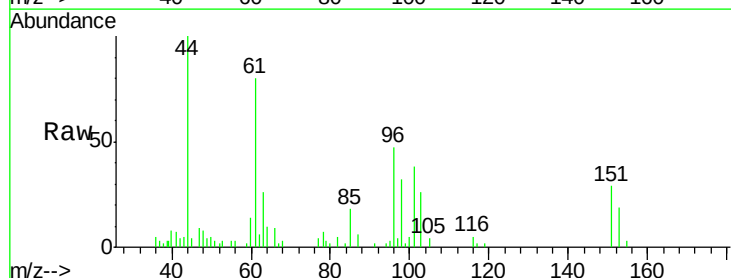
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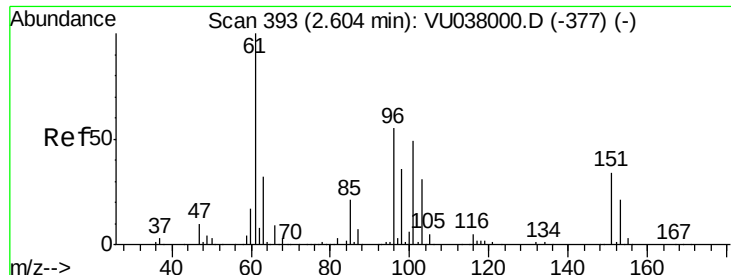


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.227 ug/l
RT: 2.60 min Scan# 393
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
101	100		
85	47.2	35.5	53.3
151	73.8	55.2	82.8





#9

1,1-Dichloroethene

Concen: 0.227 ug/l

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

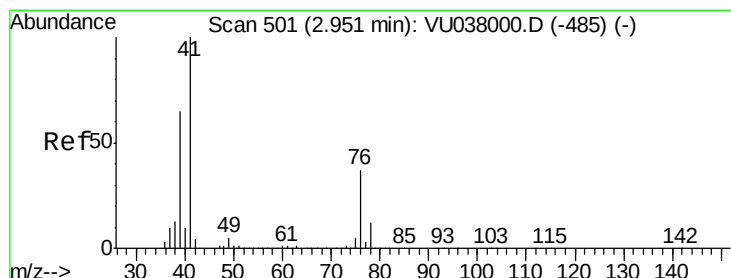
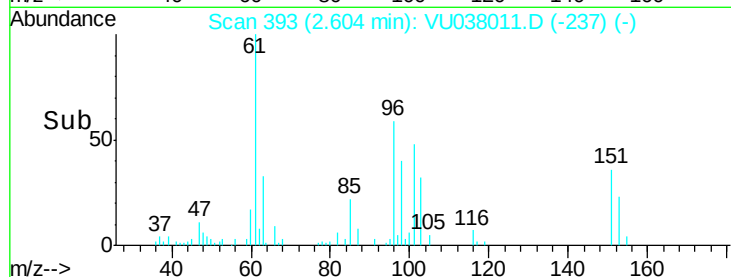
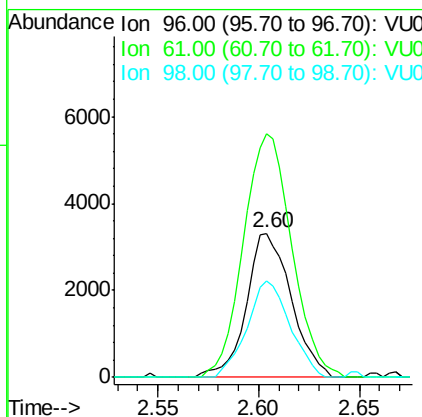
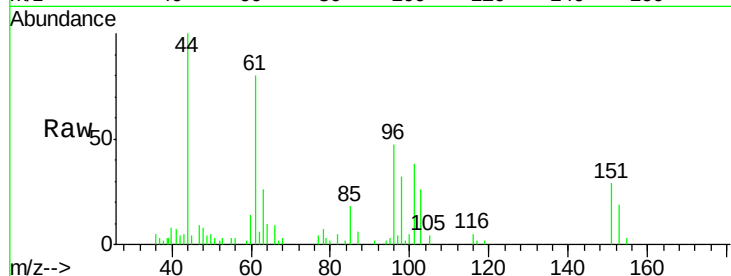
ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:	96	Resp:	5134
Ion	Ratio	Lower	Upper
96	100		
61	169.3	0.0	543.0
98	67.4	0.0	129.4

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#11

Allyl Chloride

Concen: 0.228 ug/l

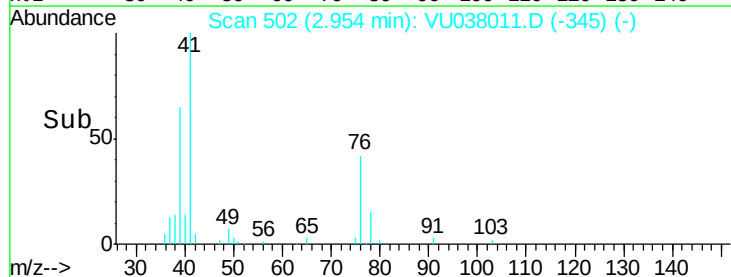
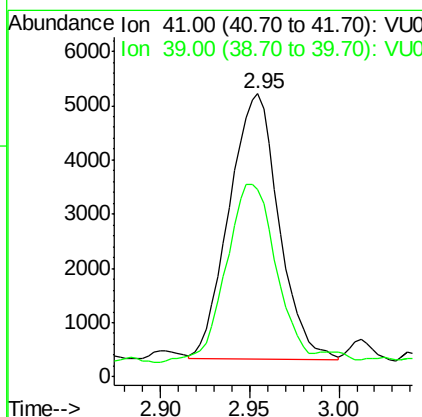
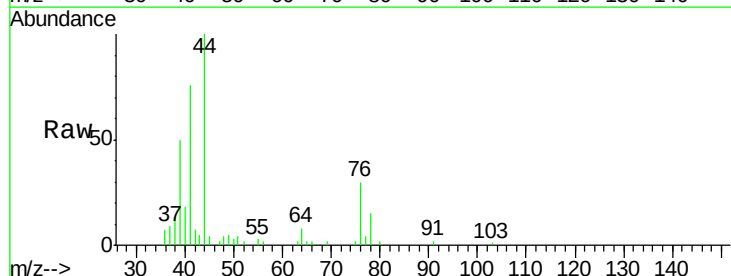
RT: 2.95 min Scan# 502

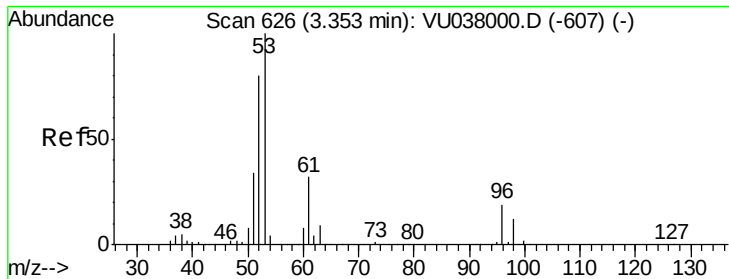
Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion:	41	Resp:	9556
Ion	Ratio	Lower	Upper
41	100		
39	67.2	51.7	77.5





#12

Acrylonitrile

Concen: 0.467 ug/l

RT: 3.35 min Scan# 625

Delta R.T. -0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

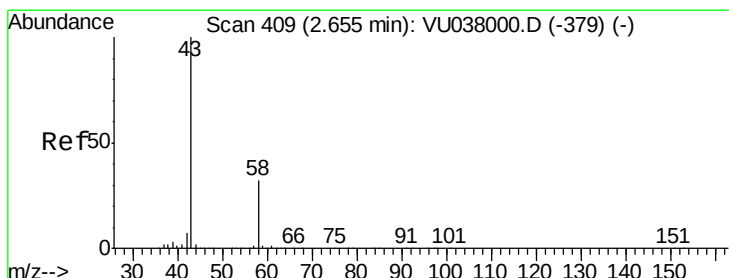
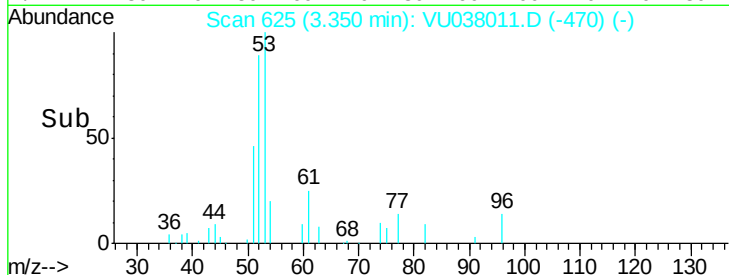
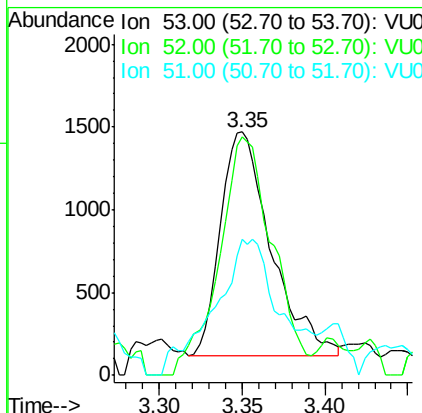
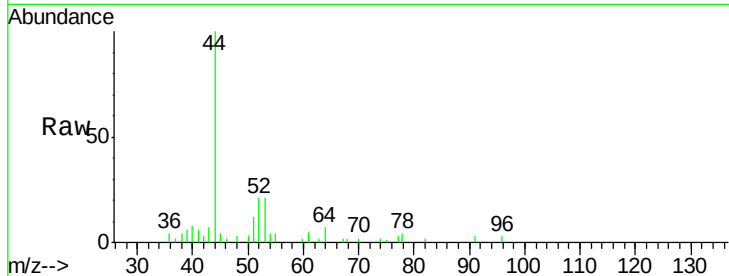
ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:	53	Resp:	2880
Ion Ratio	Lower	Upper	
53	100		
52	112.5	63.3	94.9#
51	79.5	30.2	45.2#

Manual Integrations
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#13

Acetone

Concen: 1.501 ug/l

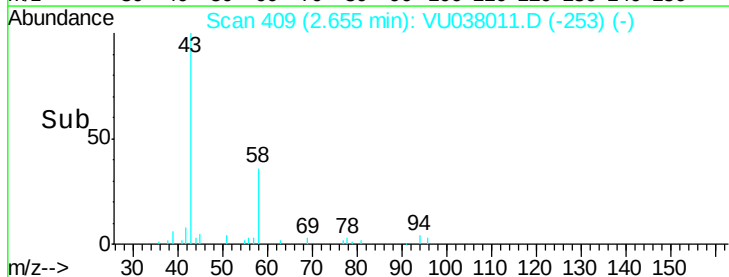
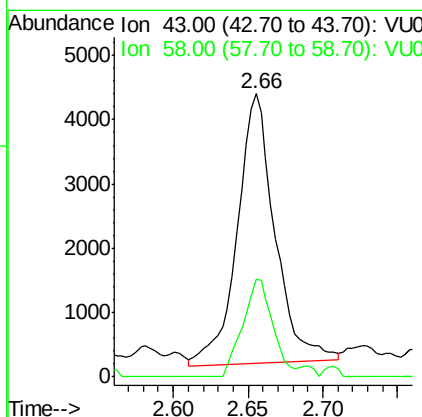
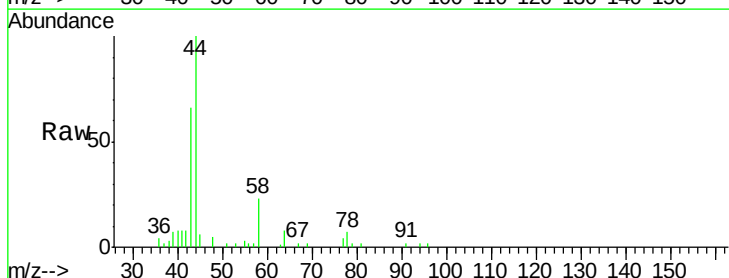
RT: 2.66 min Scan# 409

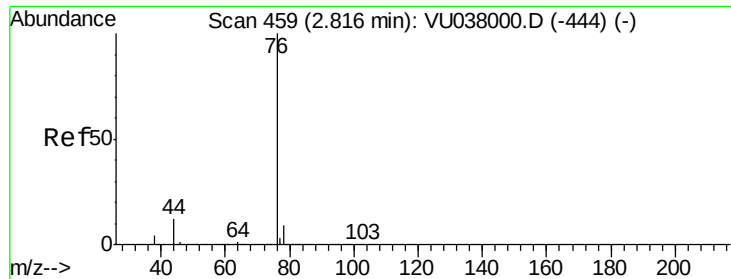
Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion:	43	Resp:	7405
Ion Ratio	Lower	Upper	
43	100		
58	36.8	25.2	37.8





#14

Carbon Disulfide

Concen: 0.241 ug/l

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion: 76 Resp: 19822

Ion Ratio Lower Upper

76 100

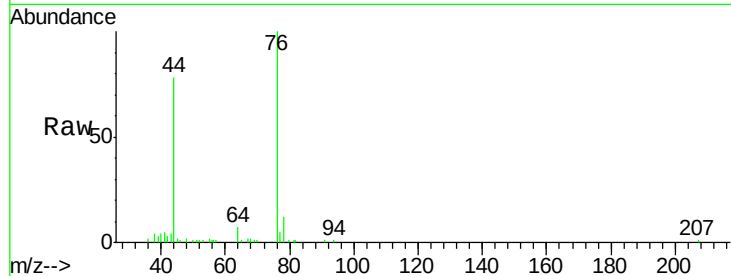
78 9.3 7.0 10.6

Manual Integrations

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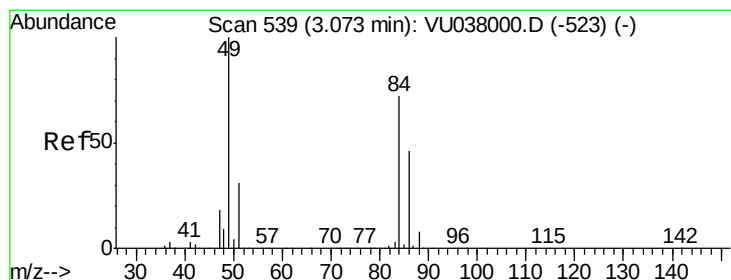
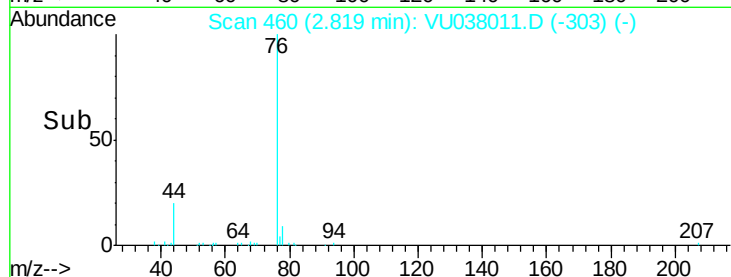
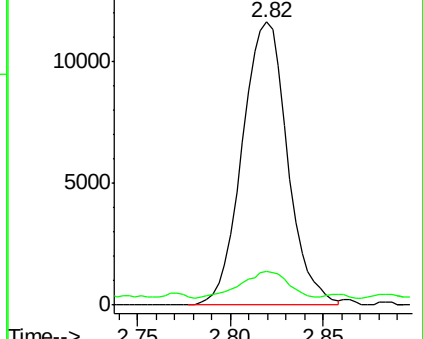
apatel

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Abundance Ion 76.00 (75.70 to 76.70): VU038011.D (-303) (-)

Ion 78.00 (77.70 to 78.70): VU038011.D (-303) (-)



#15

Methylene Chloride

Concen: 0.585 ug/l

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion: 84 Resp: 18270

Ion Ratio Lower Upper

84 100

49 129.5 110.6 166.0

51 40.7 0.0 85.4

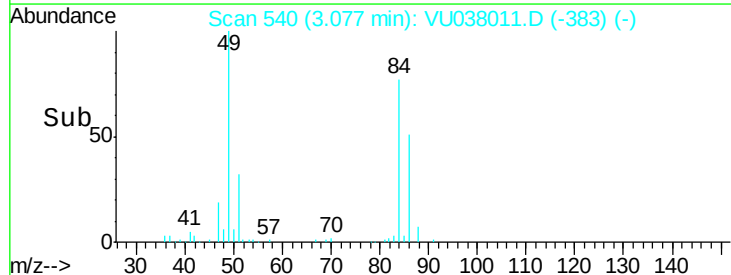
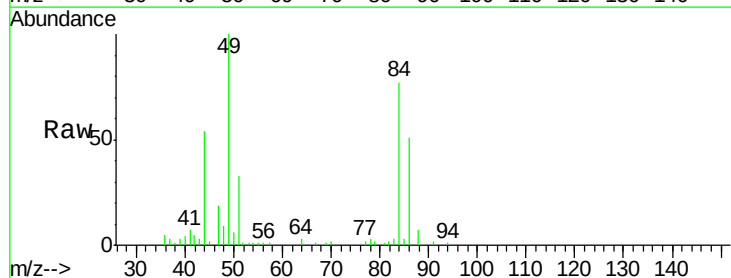
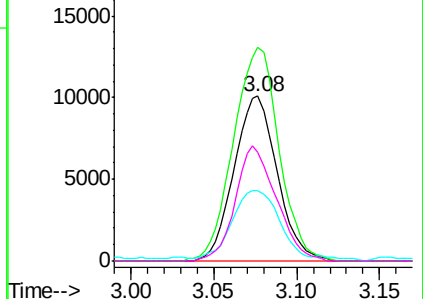
86 65.9 50.9 76.3

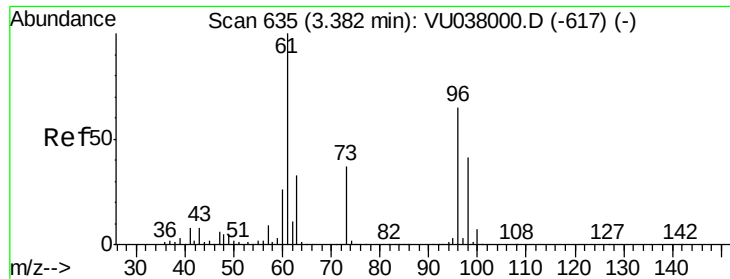
Abundance Ion 84.00 (83.70 to 84.70): VU038011.D (-383) (-)

Ion 49.00 (48.70 to 49.70): VU038011.D (-383) (-)

Ion 51.00 (50.70 to 51.70): VU038011.D (-383) (-)

Ion 86.00 (85.70 to 86.70): VU038011.D (-383) (-)





#16

trans-1,2-Dichloroethene

Concen: 0.229 ug/l

RT: 3.39 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

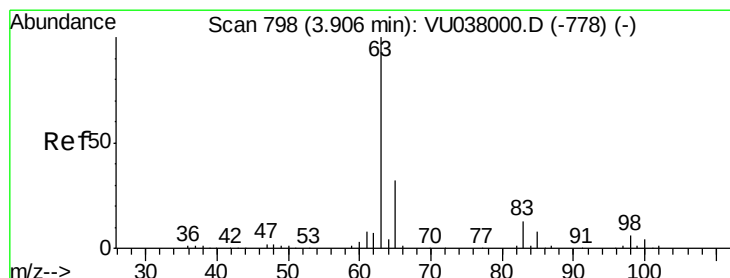
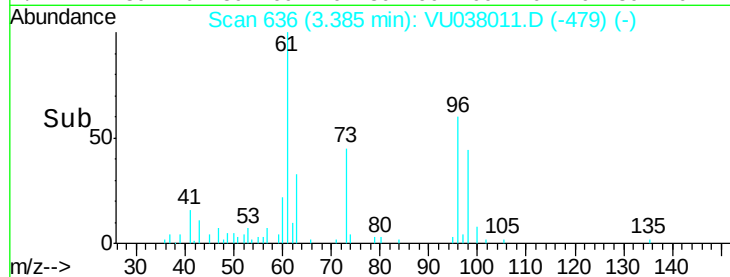
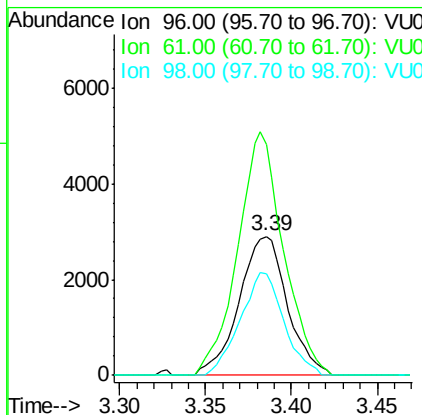
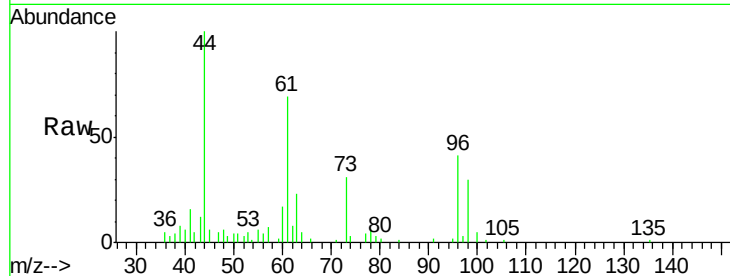
ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:	96	Resp:	5661
Ion	Ratio	Lower	Upper
96	100		
61	166.0	122.4	183.6
98	73.3	50.1	75.1

Manual Integrations
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#17

1,1-Dichloroethane

Concen: 0.232 ug/l

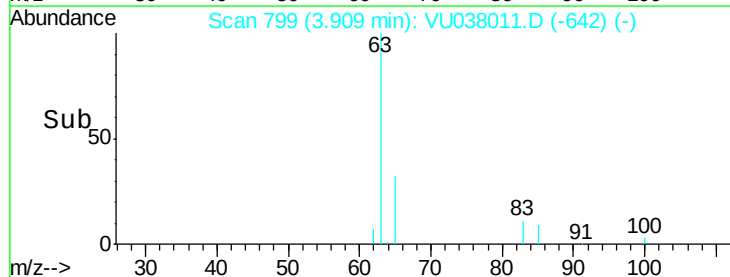
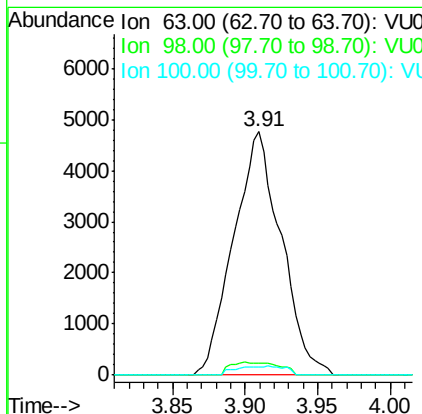
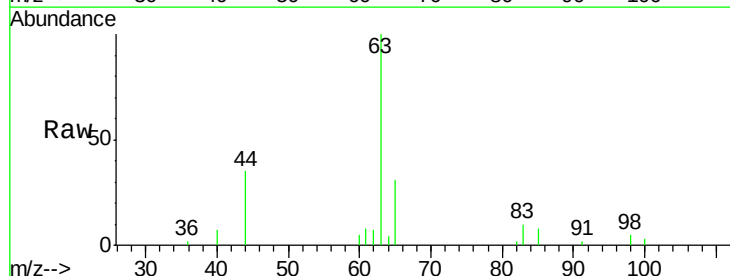
RT: 3.91 min Scan# 799

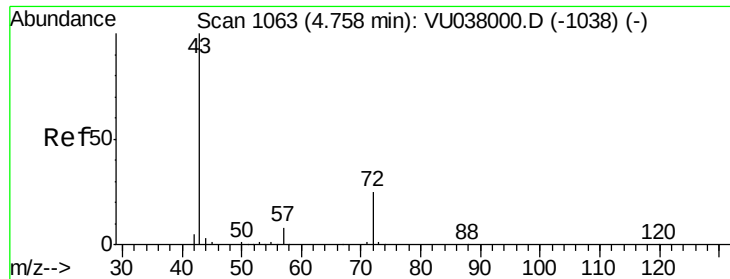
Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion:	63	Resp:	10846
Ion	Ratio	Lower	Upper
63	100		
98	4.8	3.1	9.4
100	3.2	2.2	6.6





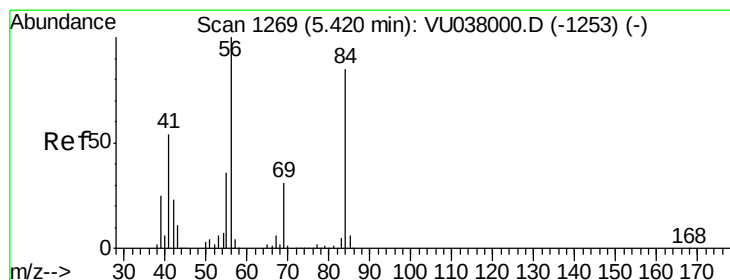
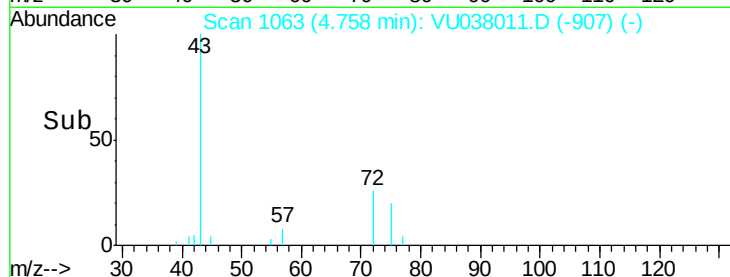
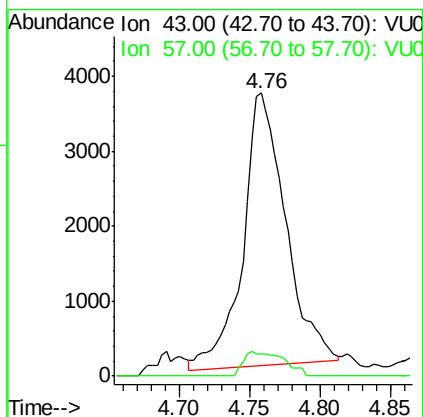
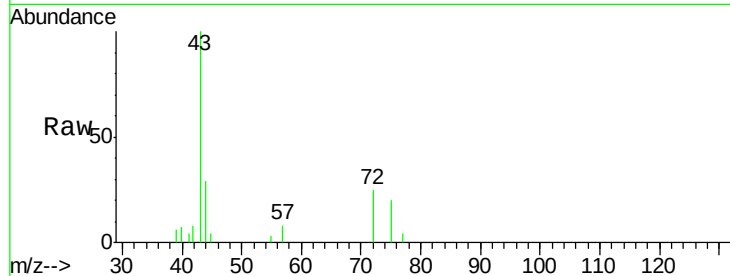
#18
2-Butanone
Concen: 1.046 ug/l
RT: 4.76 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
43	100		
57	8.3	0.0	16.6

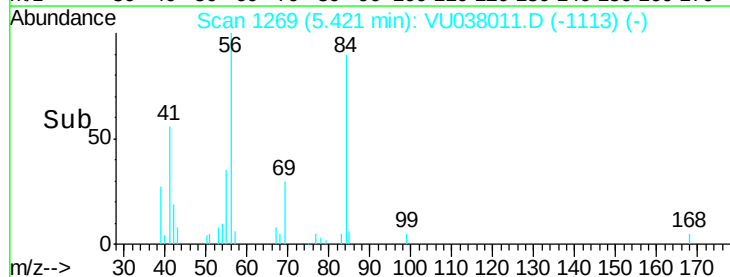
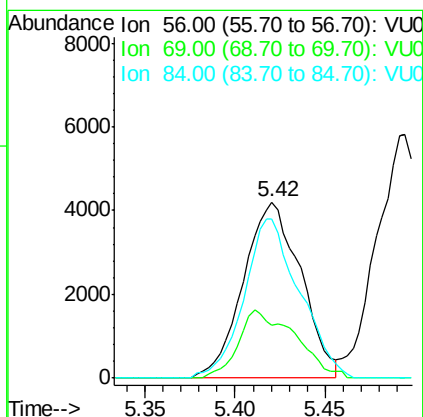
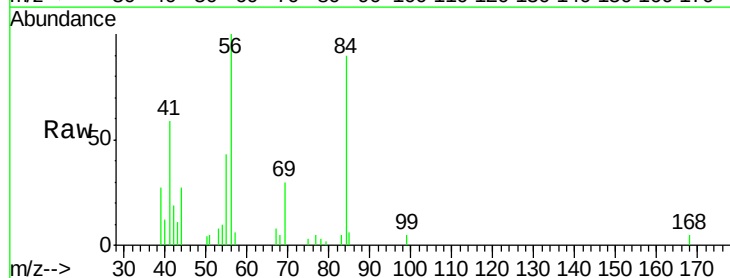
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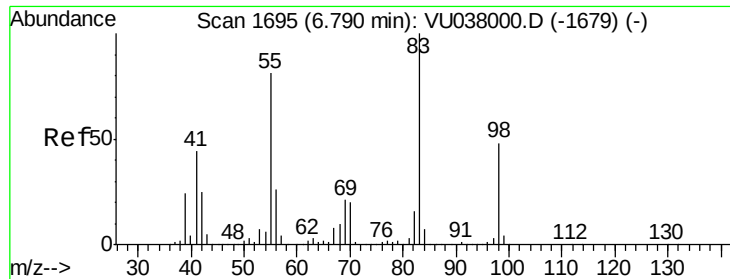
apatel
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#19
Cyclohexane
Concen: 0.205 ug/l m
RT: 5.42 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
56	100		
69	38.7	24.3	36.5#
84	87.3	66.3	99.5





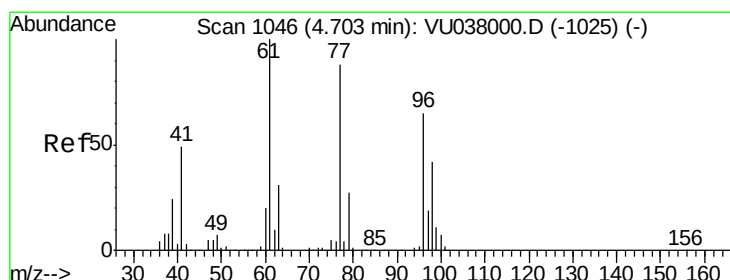
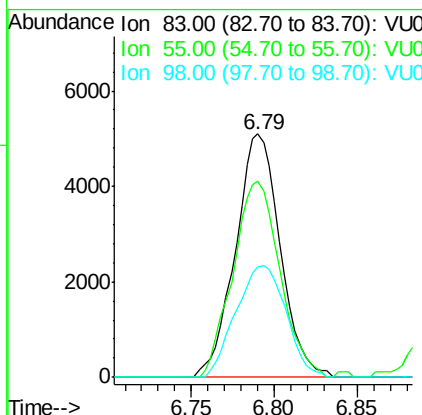
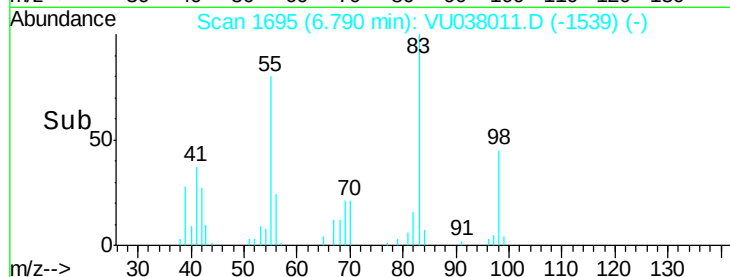
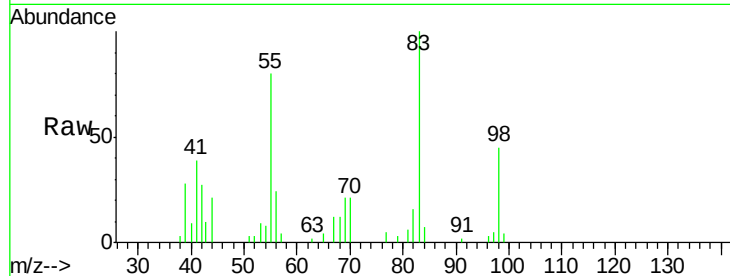
#20
Methylvclclohexane
Concen: 0.215 ug/l
RT: 6.79 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.7	61.5	92.3
98	51.4	37.3	55.9

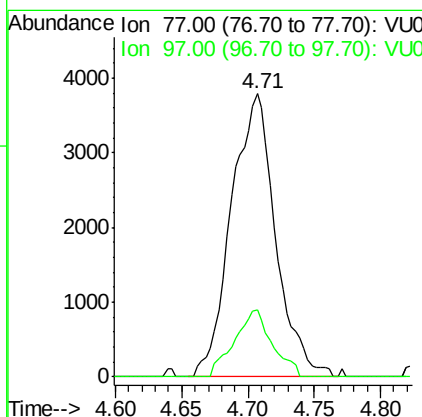
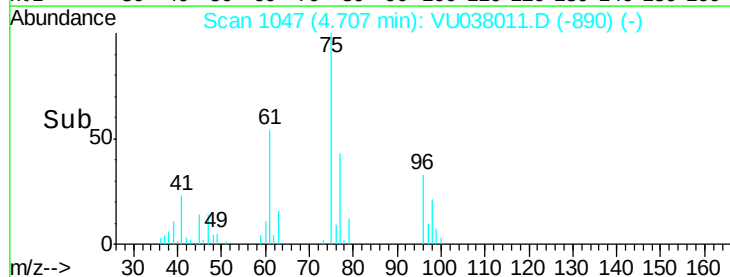
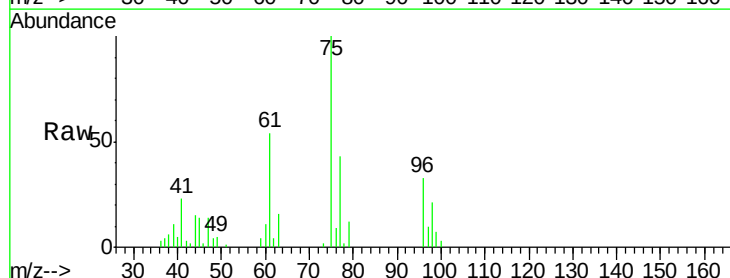
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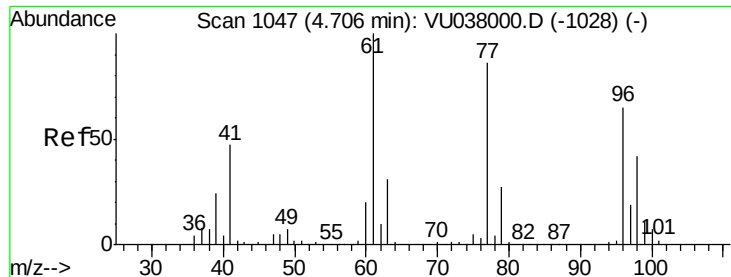
apatel
5/6/2020 10:39:14 AM



#21
2,2-Dichloropropane
Concen: 0.225 ug/l
RT: 4.71 min Scan# 1047
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
77	100		
97	20.2	17.4	26.2





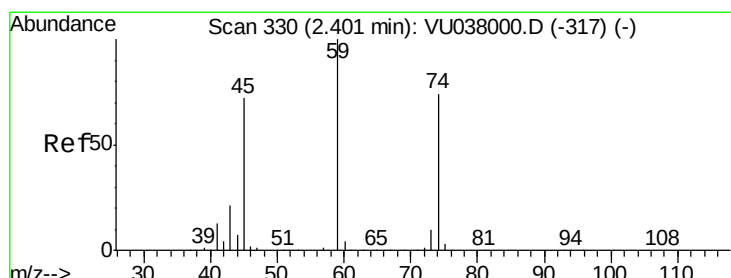
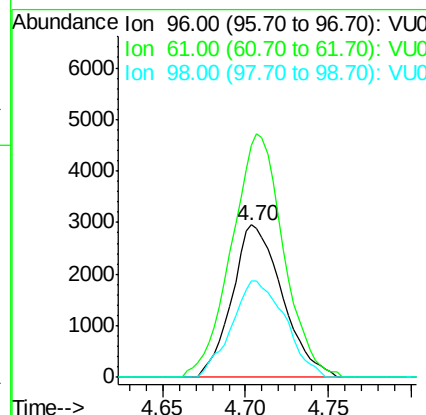
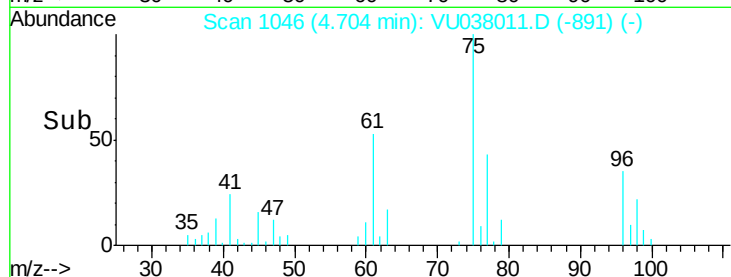
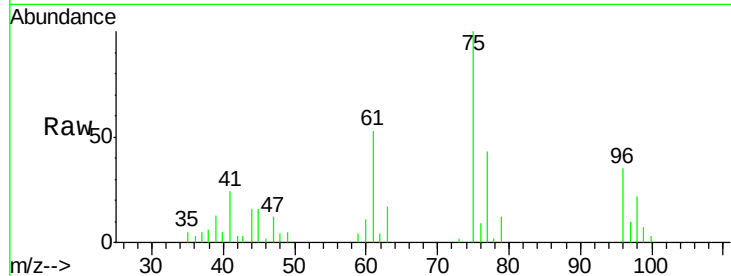
#22
 cis-1,2-Dichloroethene
 Concen: 0.238 ug/l
 RT: 4.70 min Scan# 1046
 Delta R.T. -0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	165.0	0.0	389.3
98	67.3	32.1	96.3

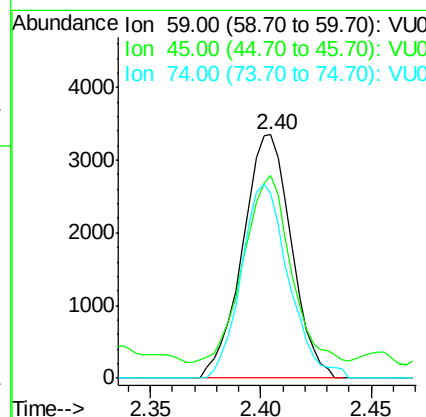
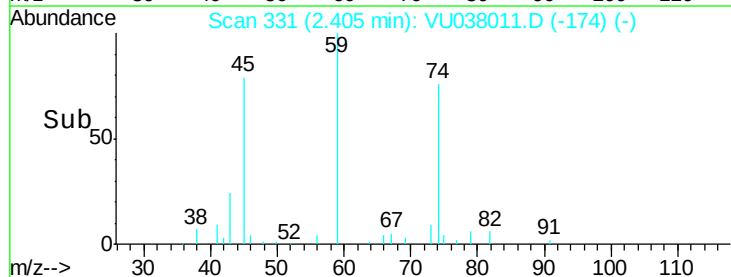
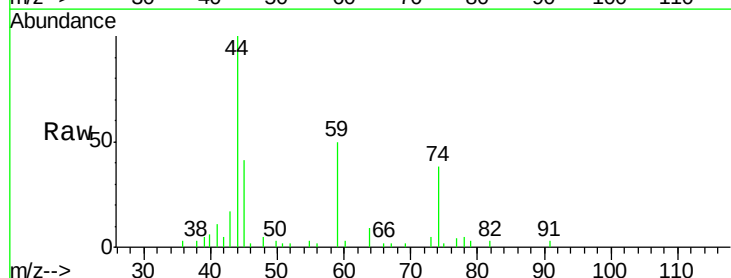
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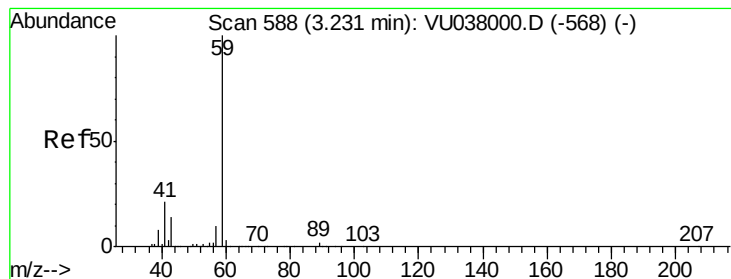
apatel
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#23
 Diethyl Ether
 Concen: 0.260 ug/l
 RT: 2.40 min Scan# 331
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
59	100		
45	79.0	59.8	89.6
74	77.4	58.2	87.4





#24

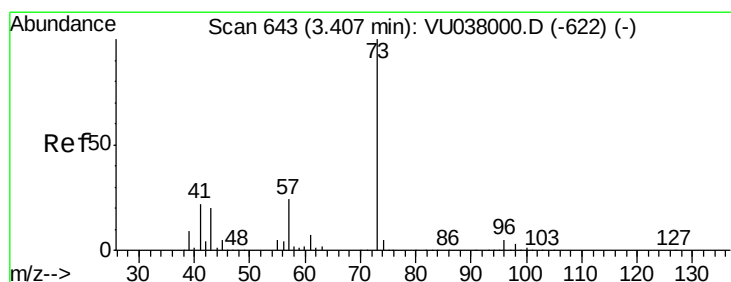
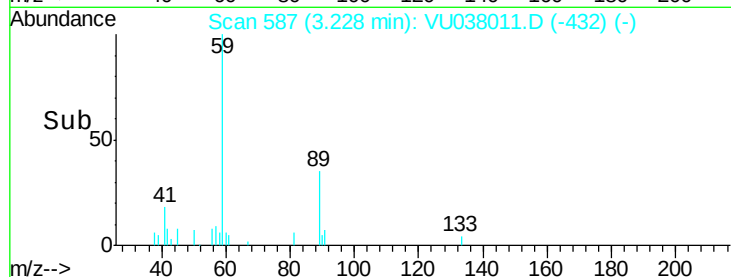
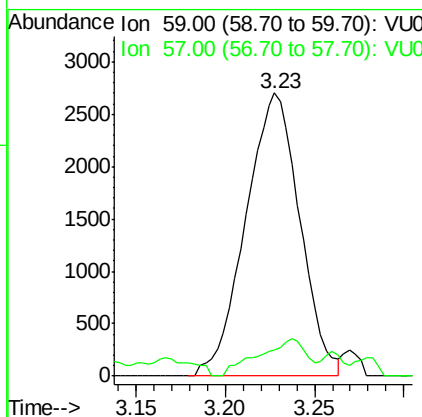
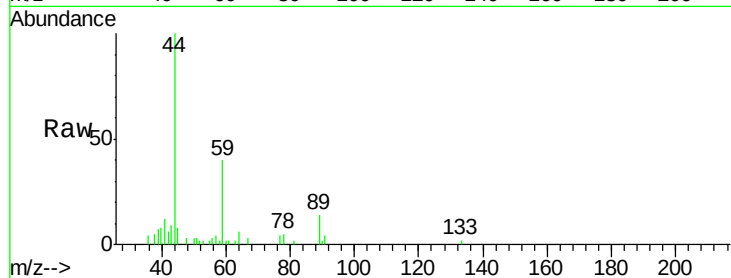
tert-Butyl Alcohol
 Concen: 2.605 ug/l
 RT: 3.23 min Scan# 587
 Delta R.T. -0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.6	8.2	12.4

Manual Integrations
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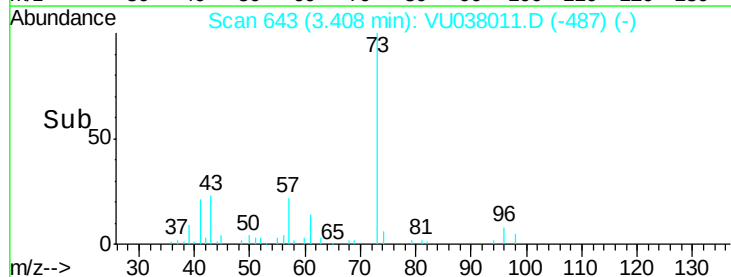
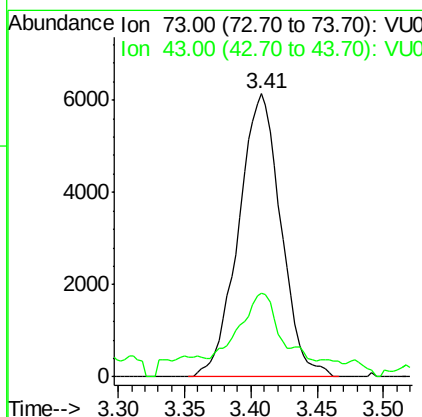
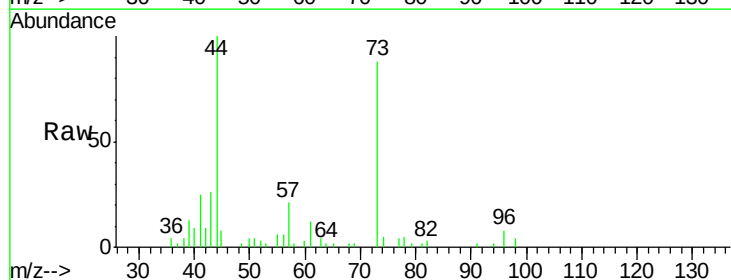
apatel
 5/6/2020 10:39:14 AM

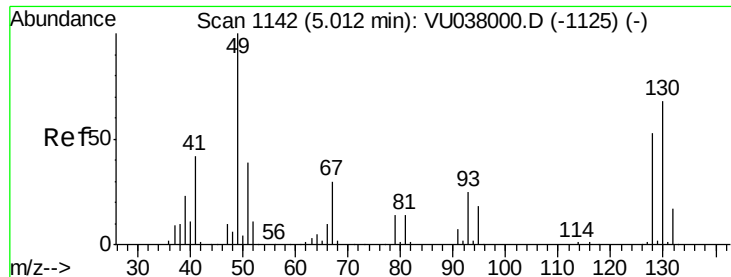


#25

Methyl tert-Butyl Ether
 Concen: 0.221 ug/l
 RT: 3.41 min Scan# 643
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
73	100		
43	18.7	16.2	24.2





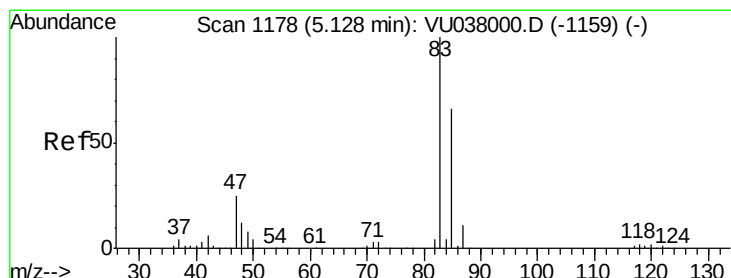
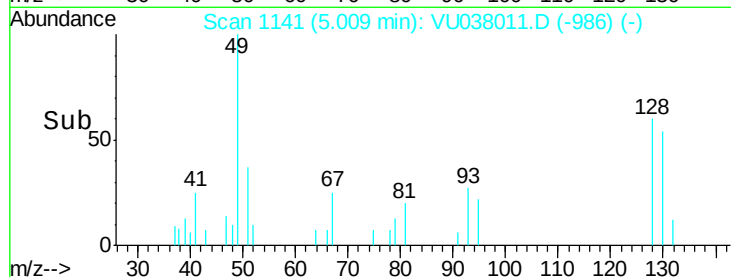
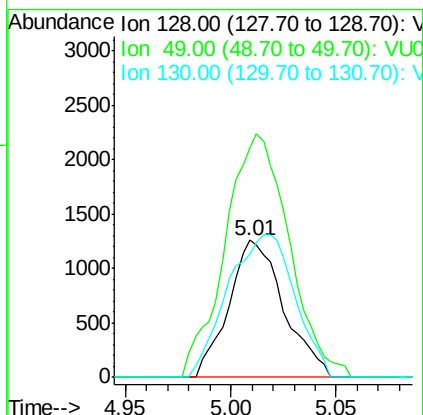
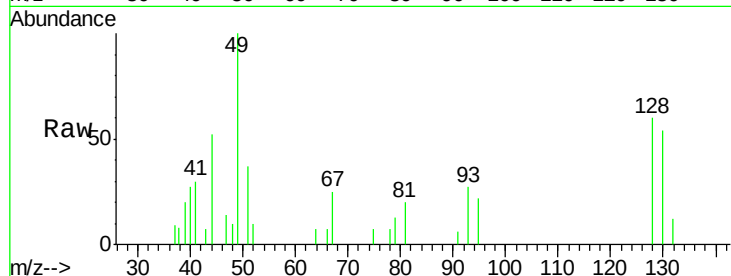
#26
Bromochloromethane
Concen: 0.218 ug/l
RT: 5.01 min Scan# 1141
Delta R.T. -0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
128	100		
49	206.4	0.0	376.0
130	127.2	102.6	153.8

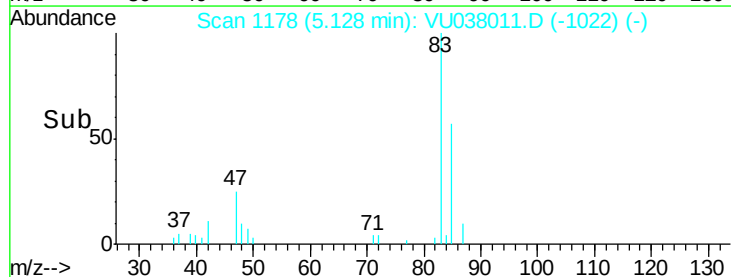
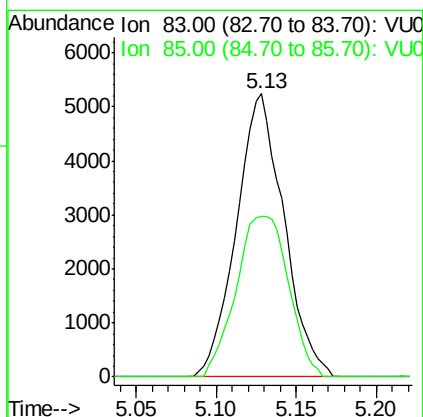
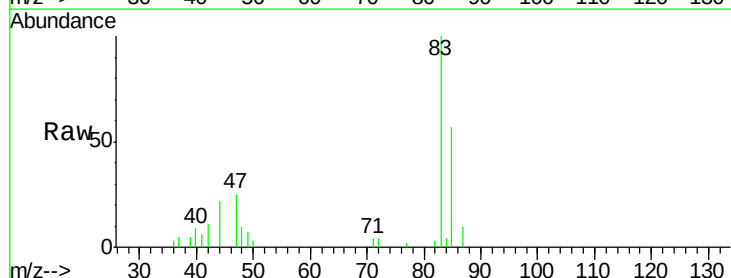
Manual Integrations
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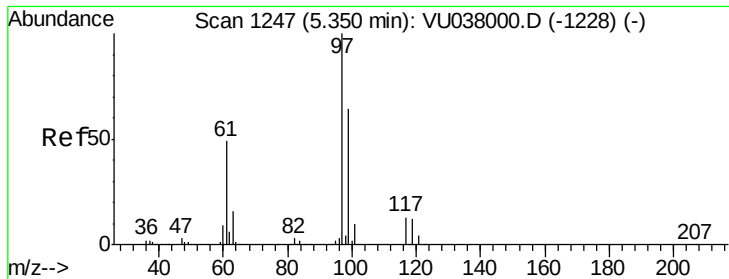
apatel
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#27
Chloroform
Concen: 0.242 ug/l
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.7	0.0	132.0





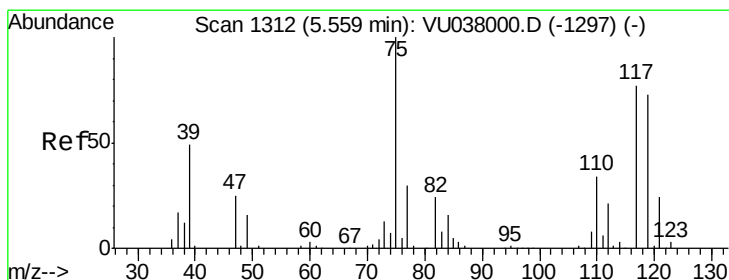
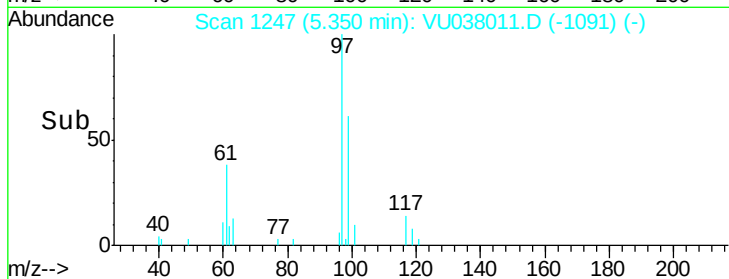
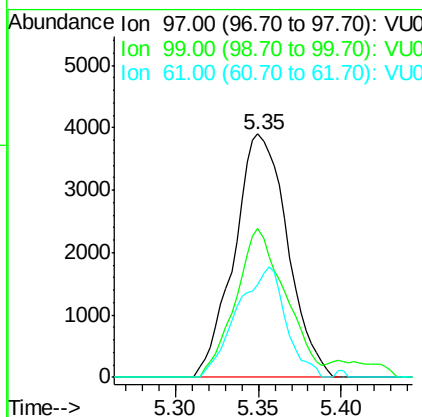
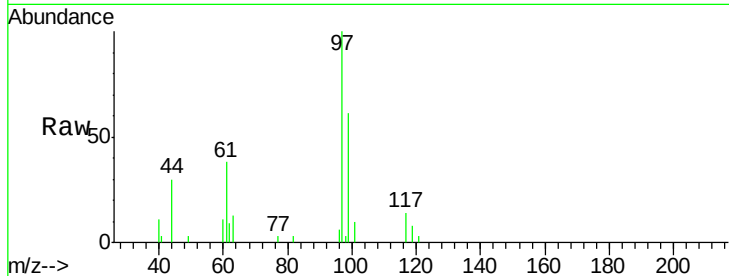
#28
 1,1,1-Trichloroethane
 Concen: 0.240 ug/l
 RT: 5.35 min Scan# 1247
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion:	97	Resp:	8695
Ion	Ratio	Lower	Upper
97	100		
99	57.4	31.9	95.9
61	41.7	24.1	72.4

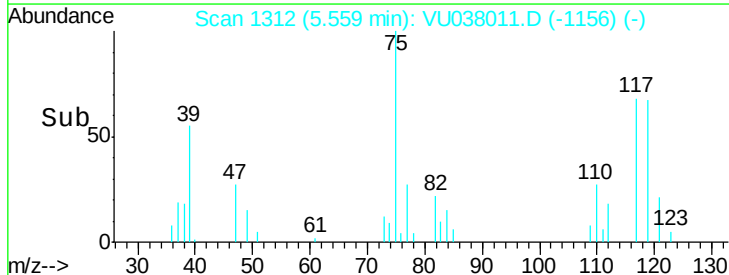
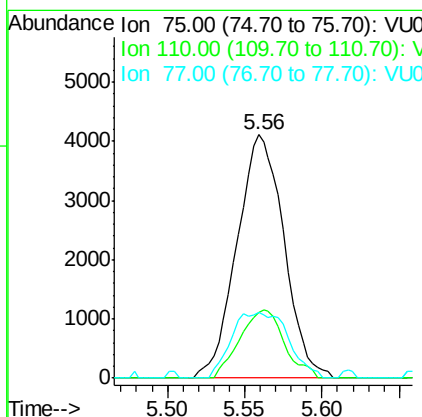
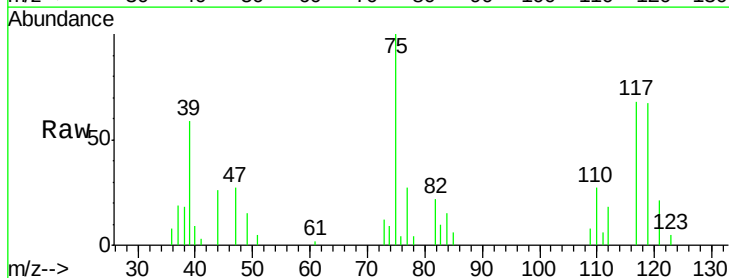
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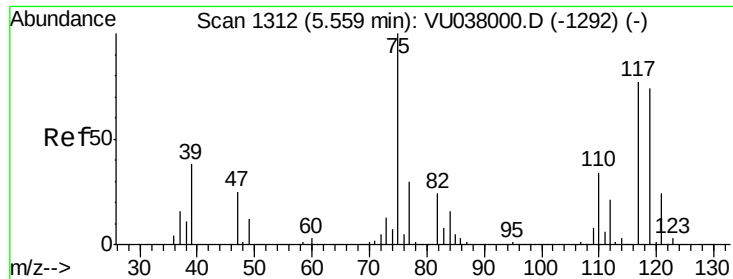
apatel
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#29
 1,1-Dichloropropene
 Concen: 0.239 ug/l
 RT: 5.56 min Scan# 1312
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion:	75	Resp:	8689
Ion	Ratio	Lower	Upper
75	100		
110	26.6	16.7	50.1
77	32.4	24.5	36.7





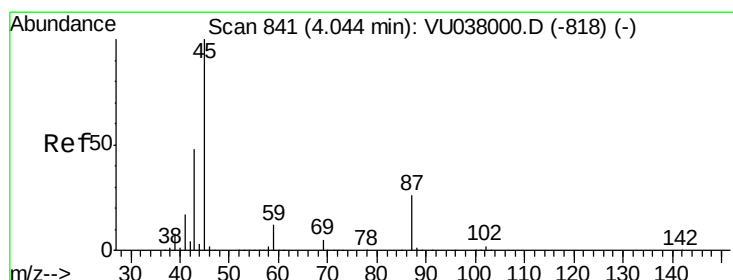
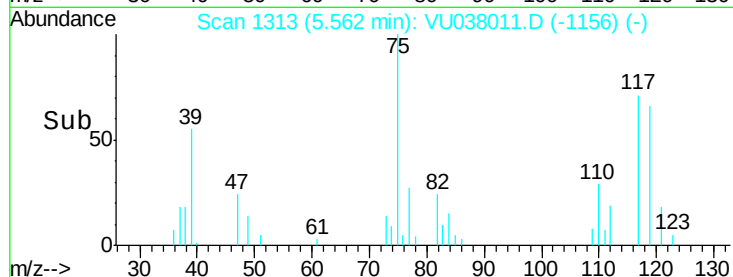
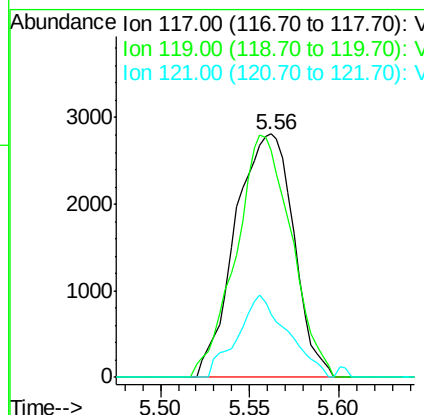
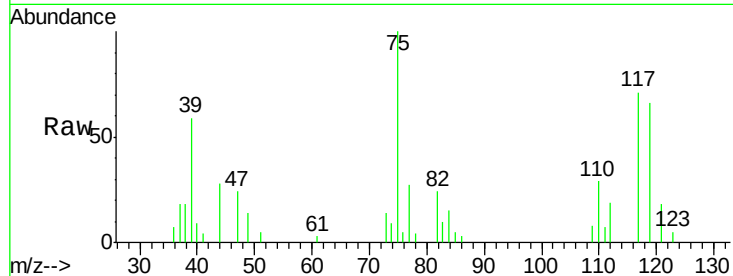
#30
Carbon Tetrachloride
Concen: 0.212 ug/l
RT: 5.56 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion: 117 Resp: 6410
Ion Ratio Lower Upper
117 100
119 93.4 76.3 114.5
121 26.1 24.7 37.1

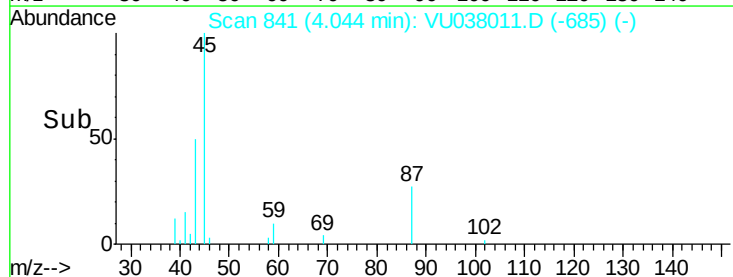
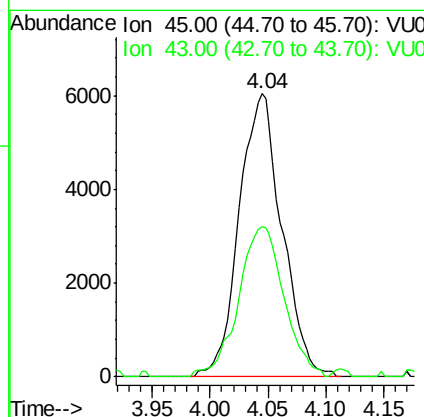
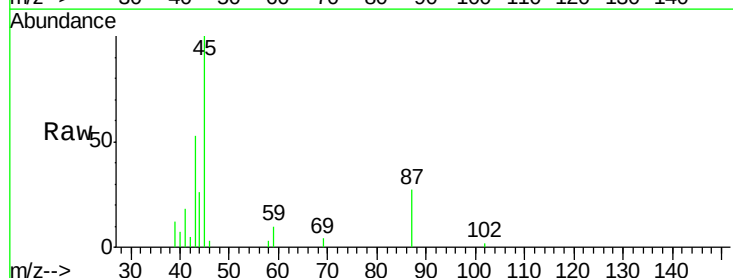
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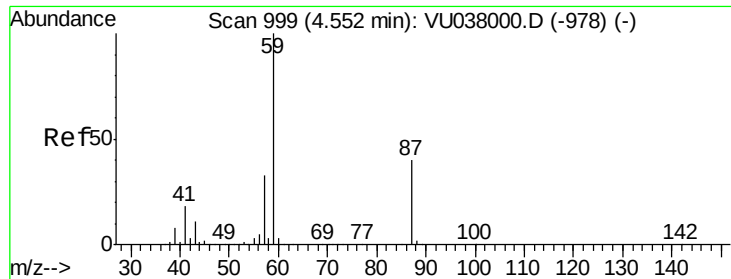
apatel
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#31
Isopropyl Ether
Concen: 0.200 ug/l
RT: 4.04 min Scan# 841
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion: 45 Resp: 15447
Ion Ratio Lower Upper
45 100
43 56.5 24.2 72.6





#32

Ethyl-t-butyl ether

Concen: 0.210 ug/l

RT: 4.56 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion: 59 Resp: 14619

Ion Ratio Lower Upper

59 100

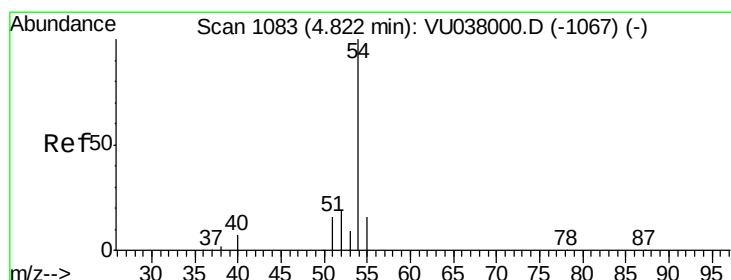
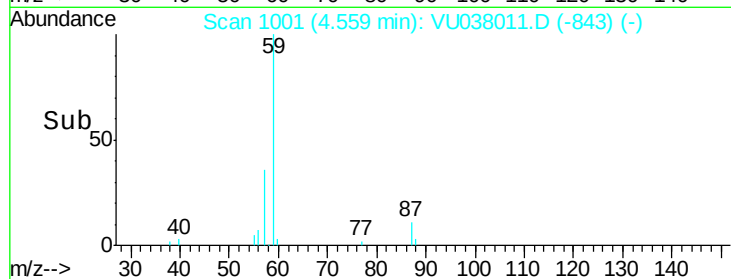
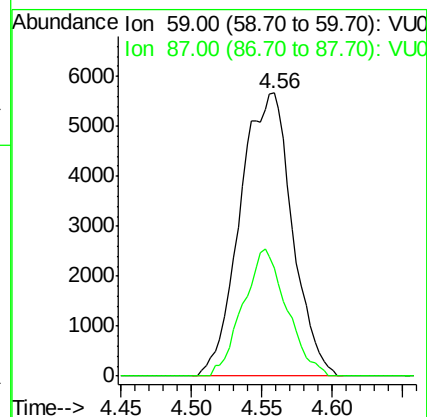
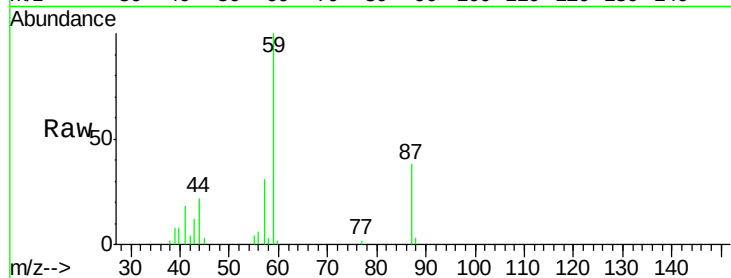
87 38.0 32.4 48.6

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#34

Propionitrile

Concen: 1.092 ug/l

RT: 4.83 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion: 54 Resp: 2314

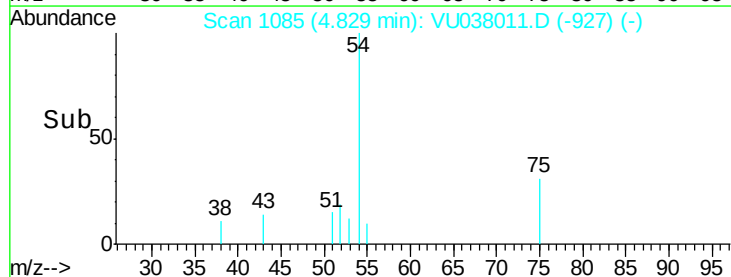
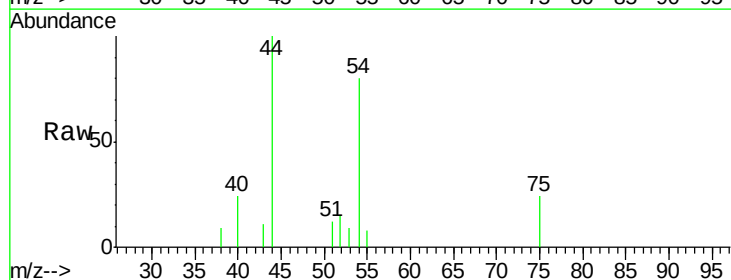
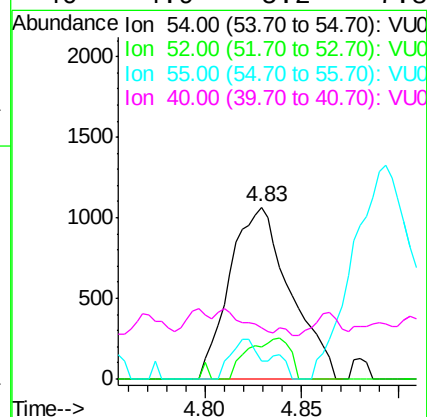
Ion Ratio Lower Upper

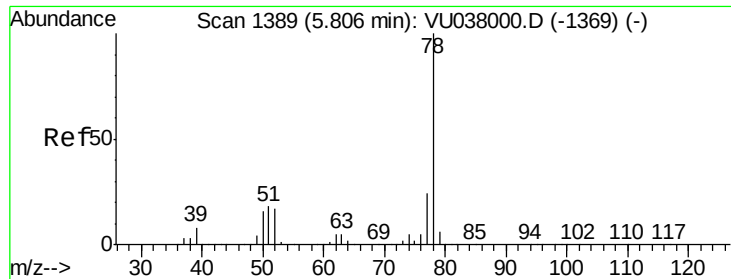
54 100

52 16.4 15.8 23.8

55 11.1 13.2 19.8#

40 4.9 5.2 7.8#





#35

Benzene

Concen: 0.222 ug/l

RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion: 78 Resp: 22648

Ion Ratio Lower Upper

78 100

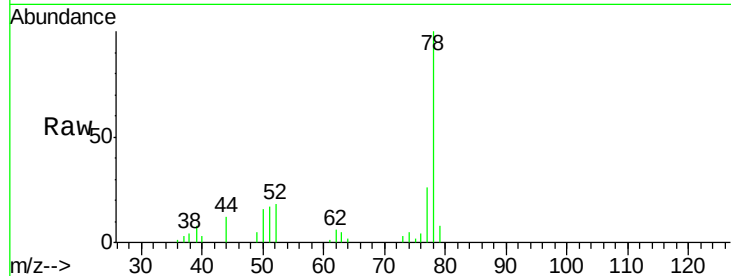
77 26.3 19.3 28.9

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Abundance Ion 78.10 (77.80 to 78.80): VU038011.D (-1233) (-)

Ion 77.00 (76.70 to 77.70): VU038011.D (-1233) (-)

12000

10000

8000

6000

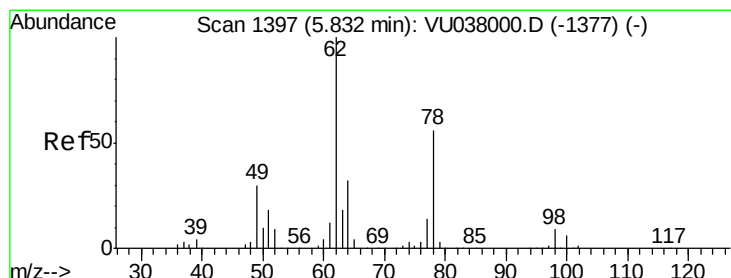
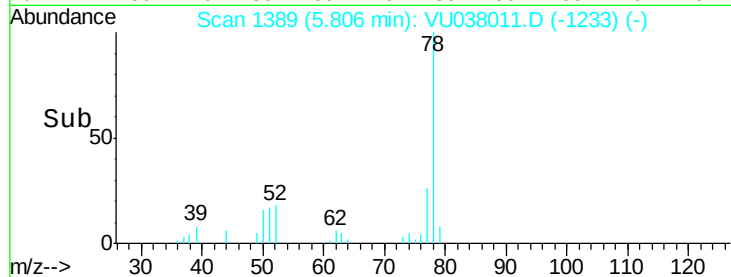
4000

2000

0

5.75 5.80 5.85 5.90

Time-->



#36

1,2-Dichloroethane

Concen: 0.229 ug/l

RT: 5.83 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU038011.D

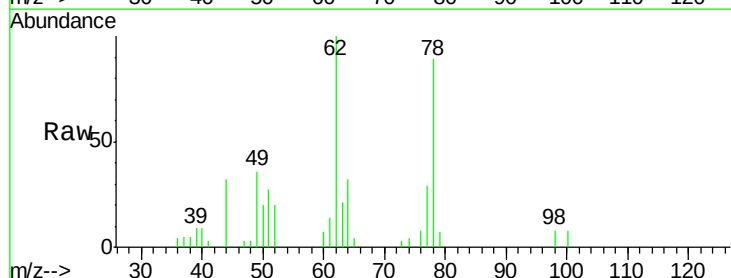
Acq: 05 May 2020 12:11

Tgt Ion: 62 Resp: 6916

Ion Ratio Lower Upper

62 100

98 6.4 7.3 10.9#



Abundance Ion 62.00 (61.70 to 62.70): VU038011.D (-1241) (-)

Ion 98.00 (97.70 to 98.70): VU038011.D (-1241) (-)

4000

3000

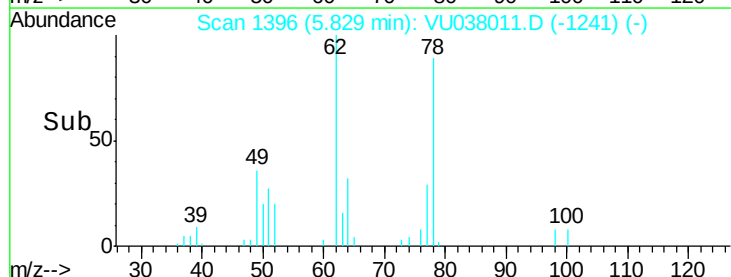
2000

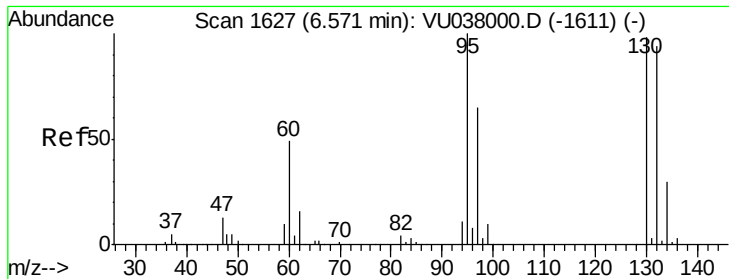
1000

0

5.75 5.80 5.85 5.90

Time-->





#37

Trichloroethene

Concen: 0.233 ug/l

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:130 Resp: 6228

Ion Ratio Lower Upper

130 100

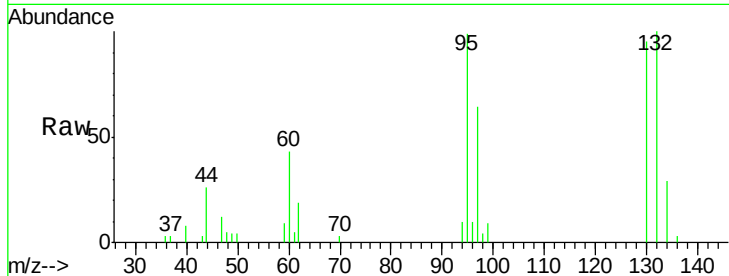
95 104.4 81.6 122.4

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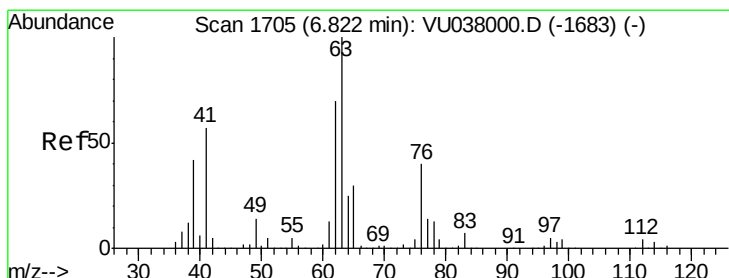
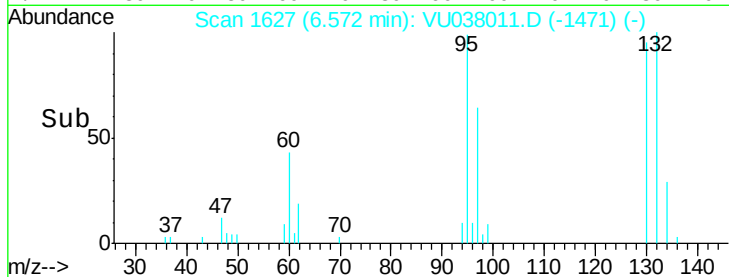
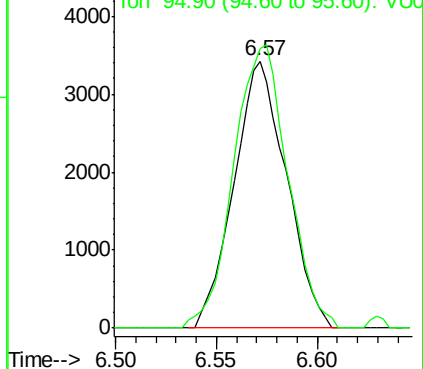
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Abundance Ion 129.90 (129.60 to 130.60): VU038011.D (-1471) (-)



#38

1,2-Dichloropropane

Concen: 0.224 ug/l

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU038011.D

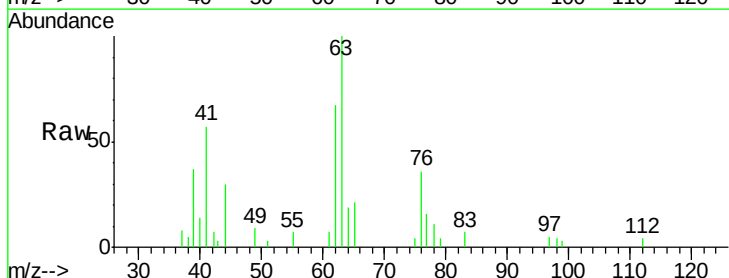
Acq: 05 May 2020 12:11

Tgt Ion: 63 Resp: 6158

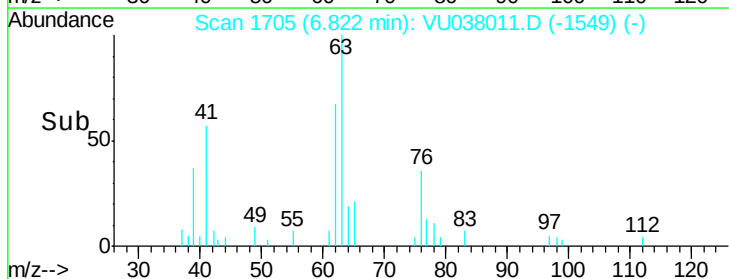
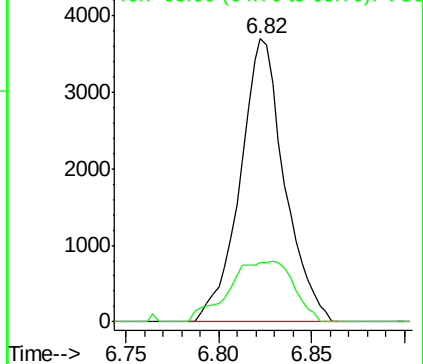
Ion Ratio Lower Upper

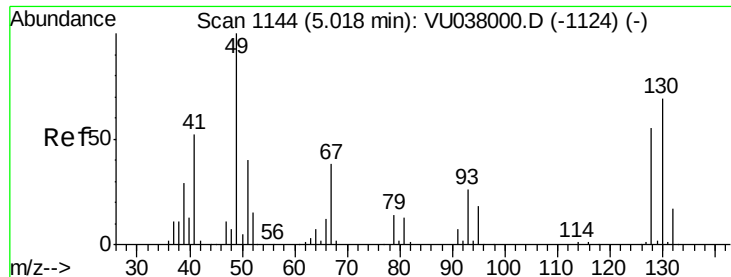
63 100

65 20.8 24.1 36.1#



Abundance Ion 63.00 (62.70 to 63.70): VU038011.D (-1549) (-)





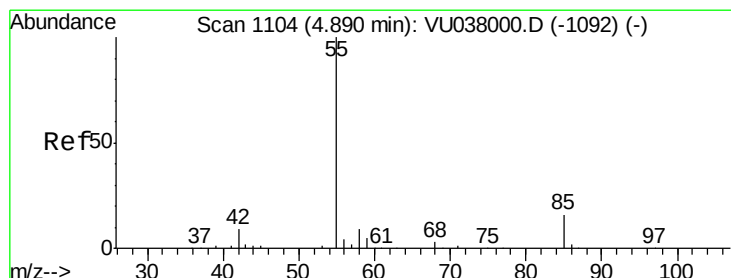
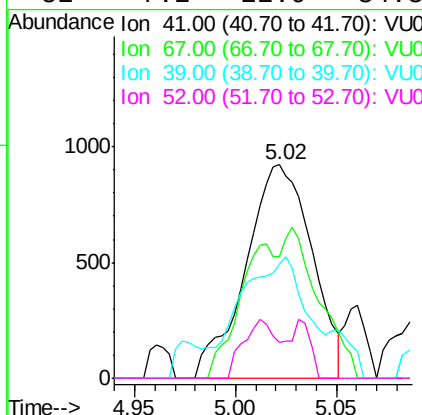
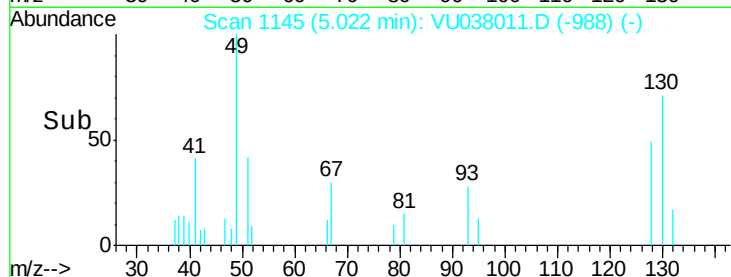
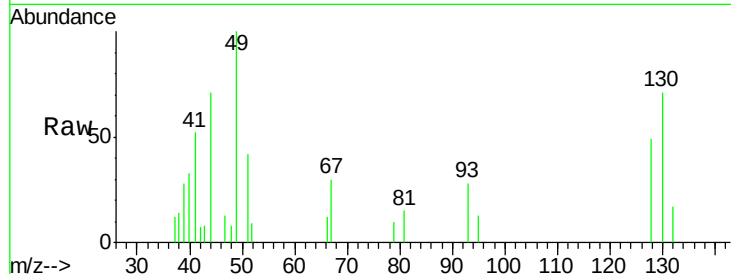
#39
Methacrylonitrile
Concen: 0.213 ug/l
RT: 5.02 min Scan# 1145
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion	41	Resp:	2109
Ion	Ratio	Lower	Upper
41	100		
67	0.0	58.0	87.0#
39	41.3	43.2	64.8#
52	7.2	22.9	34.3#

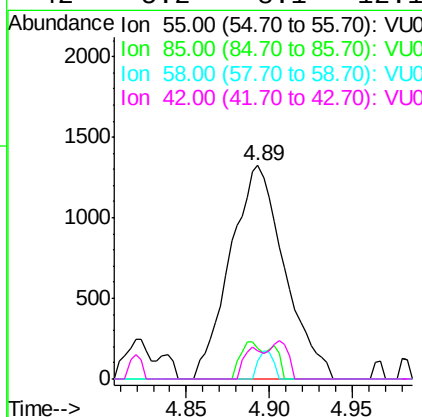
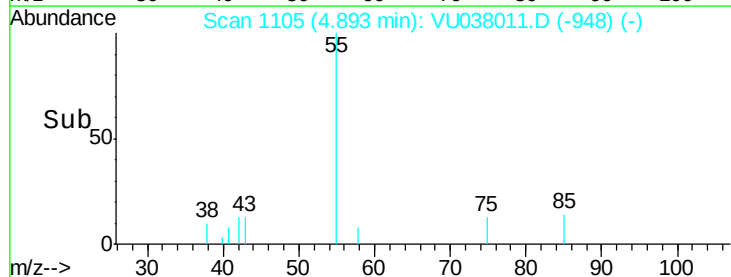
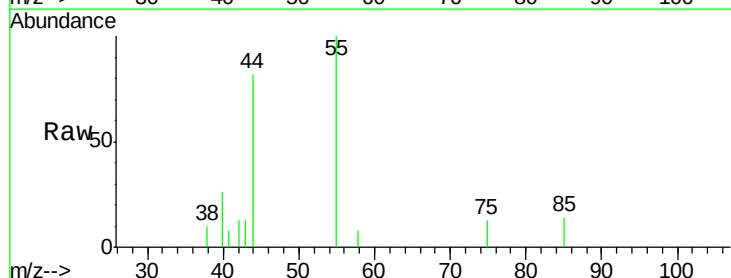
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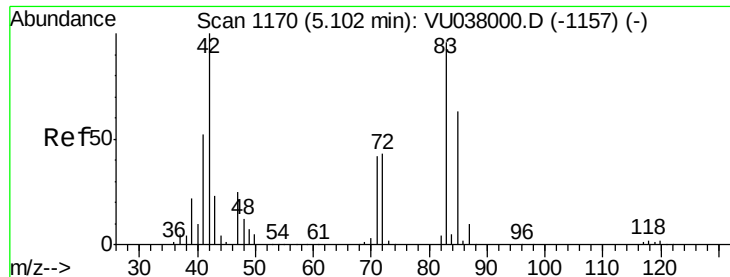
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#40
Methyl acrylate
Concen: 0.206 ug/l
RT: 4.89 min Scan# 1105
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion	55	Resp:	3014
Ion	Ratio	Lower	Upper
55	100		
85	6.9	12.9	19.3#
58	3.5	7.2	10.8#
42	5.2	8.1	12.1#





#41

Tetrahydrofuran

Concen: 0.573 ug/l

RT: 5.11 min Scan# 1173

Delta R.T. 0.01 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

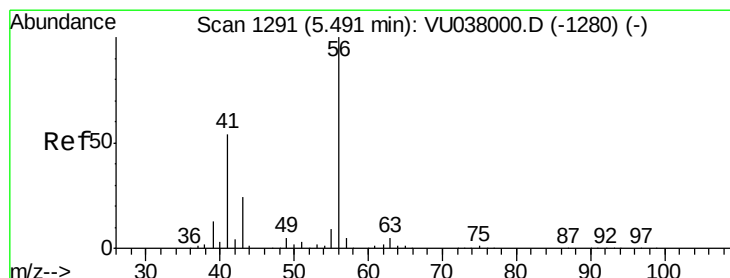
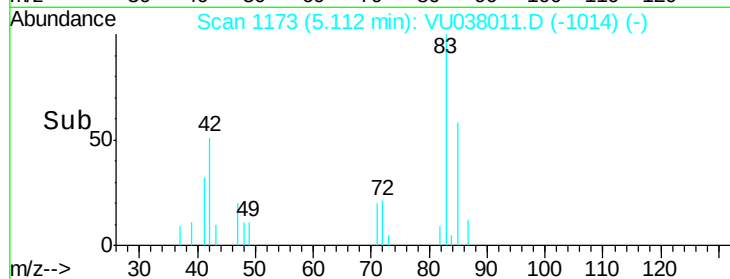
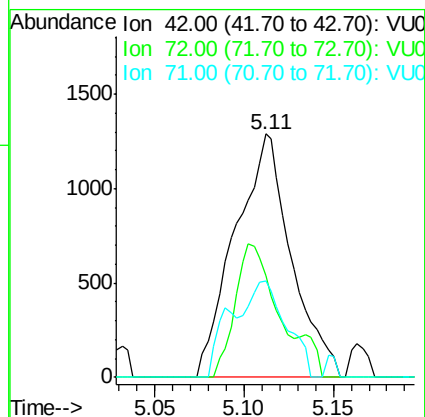
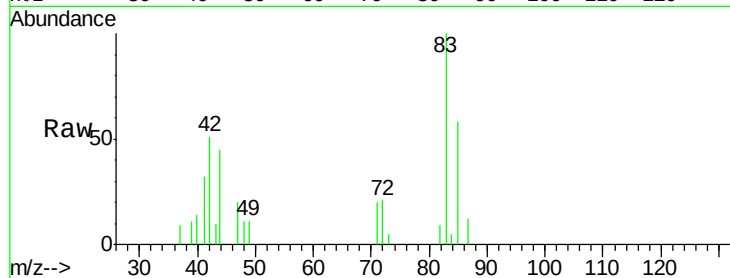
ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:	42	Resp:	2838
Ion	Ratio	Lower	Upper
42	100		
72	38.4	37.4	56.2
71	25.9	32.8	49.2#

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#42

1-Chlorobutane

Concen: 0.220 ug/l

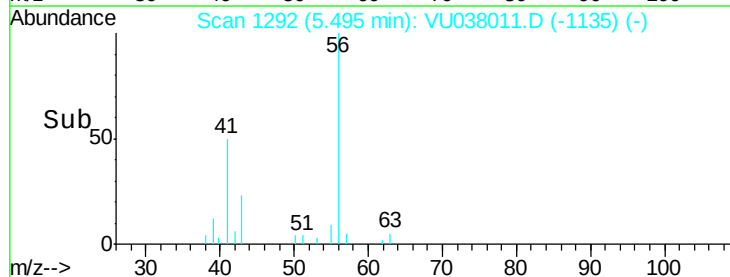
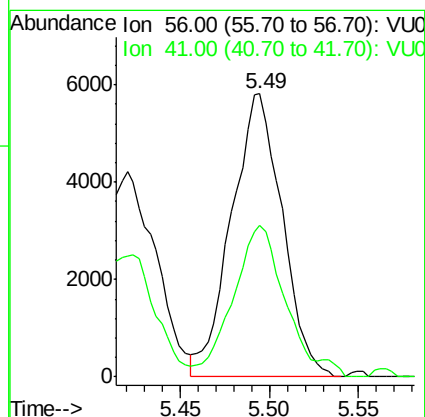
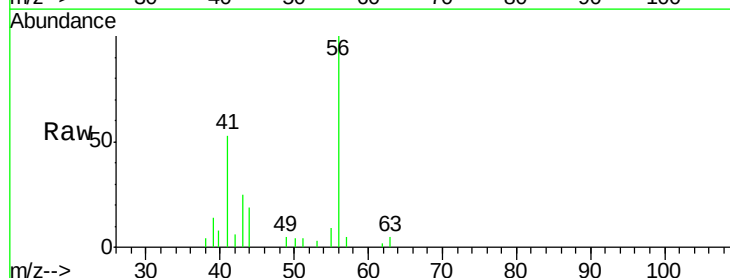
RT: 5.49 min Scan# 1292

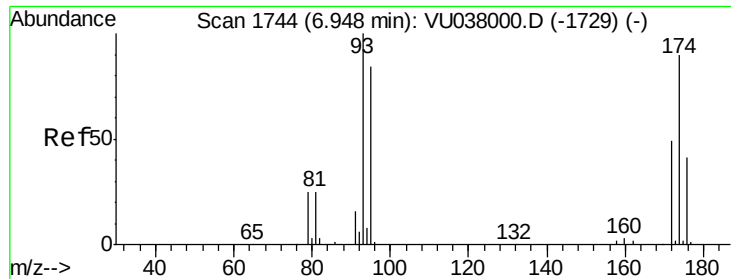
Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion:	56	Resp:	11554
Ion	Ratio	Lower	Upper
56	100		
41	55.5	26.8	80.4





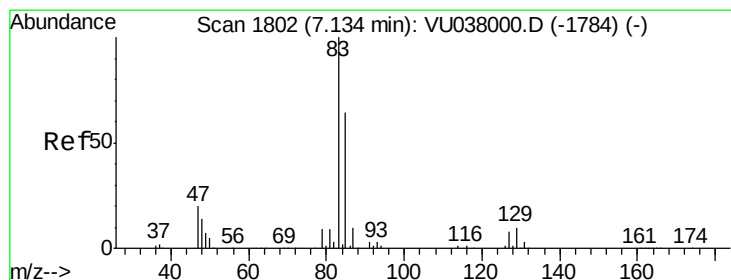
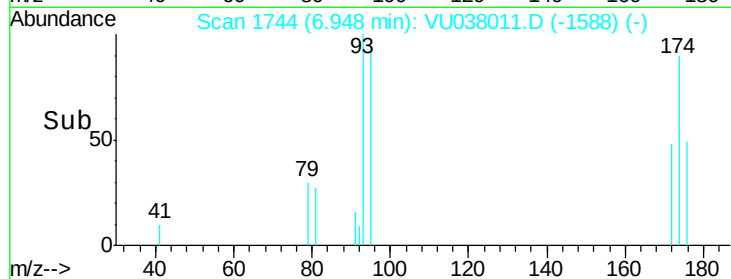
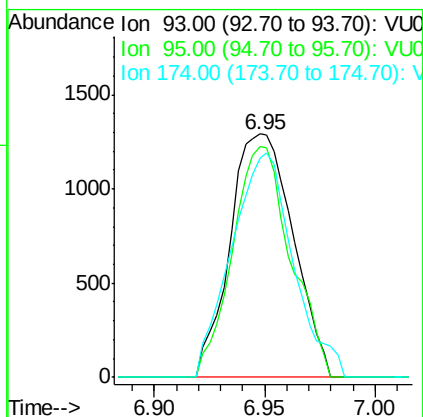
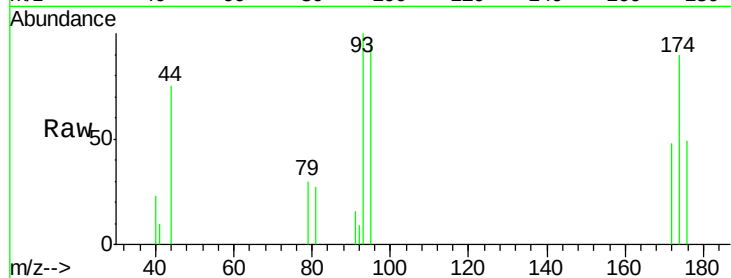
#43
Dibromomethane
Concen: 0.201 ug/l
RT: 6.95 min Scan# 1744
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
93	100		
95	87.5	66.1	99.1
174	90.4	72.8	109.2

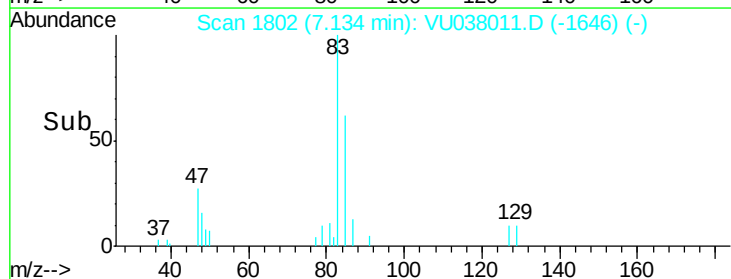
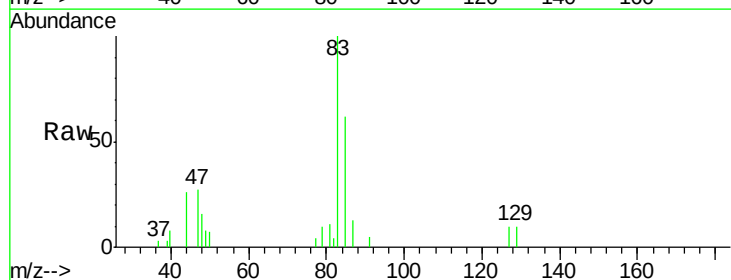
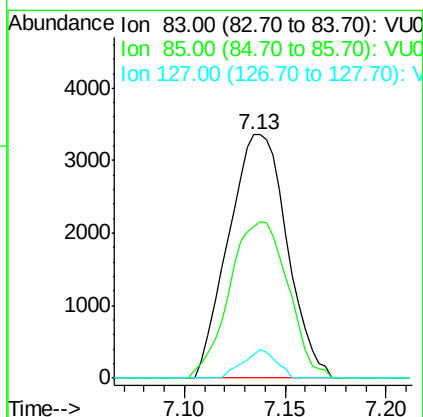
Manual Integrations
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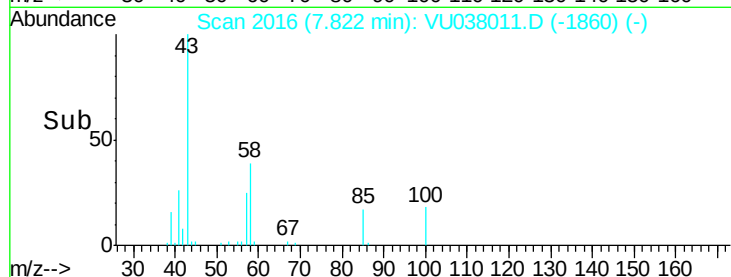
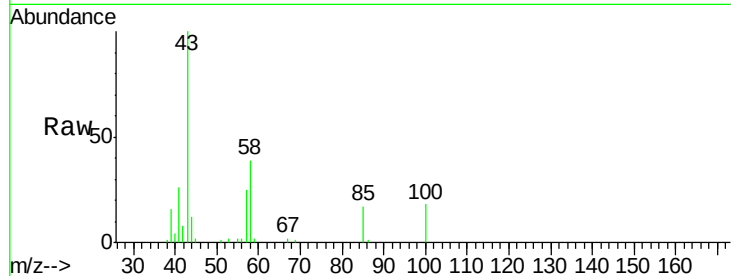
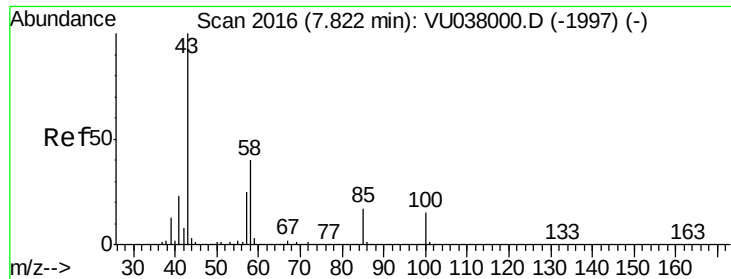
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#44
Bromodichloromethane
Concen: 0.212 ug/l
RT: 7.13 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.4	77.0
127	9.8	6.2	9.2#





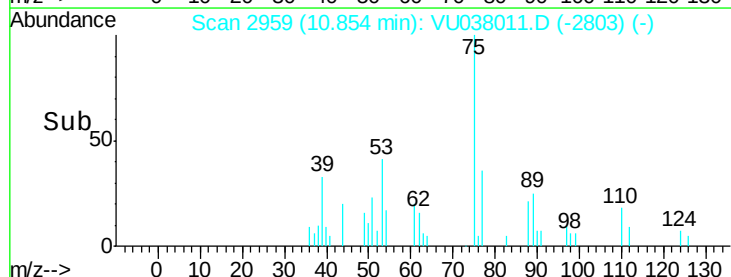
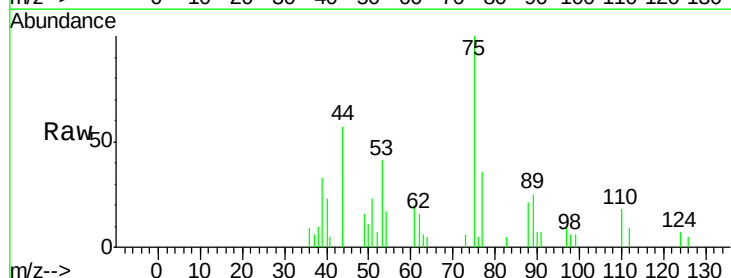
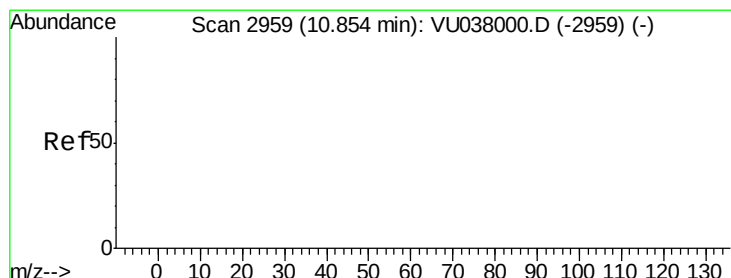
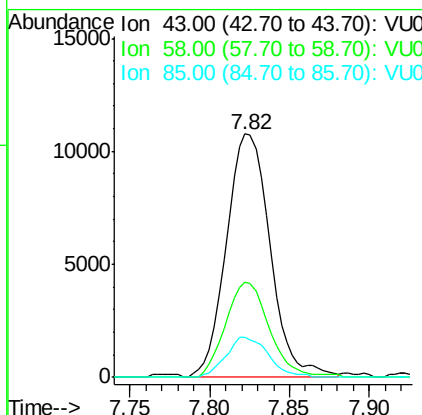
#45
4-Methyl-2-Pentanone
Concen: 1.156 ug/l
RT: 7.82 min Scan# 2016
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tot Ion:	43	Resp:	20128
Ion Ratio	Lower	Upper	
43	100		
58	38.5	20.1	60.3
85	16.0	13.7	20.5

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

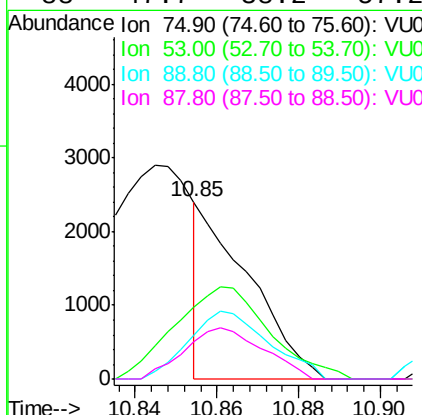
Manual Integrations
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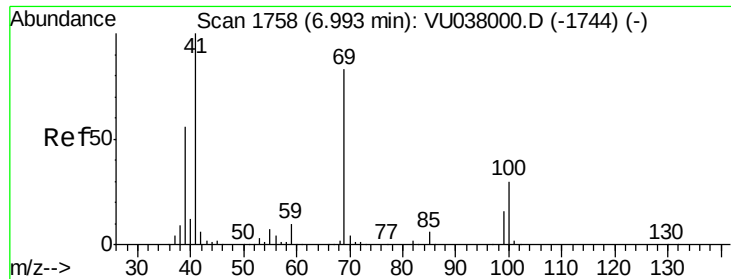
apatel
5/6/2020 10:39:14 AM



#46
t-1,4-Dichloro-2-butene
Concen: 0.362 ug/l m
RT: 10.85 min Scan# 2959
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion:	75	Resp:	1949
Ion Ratio	Lower	Upper	
75	100		
53	103.2	81.1	121.7
89	64.1	53.2	79.8
88	47.7	38.2	57.2





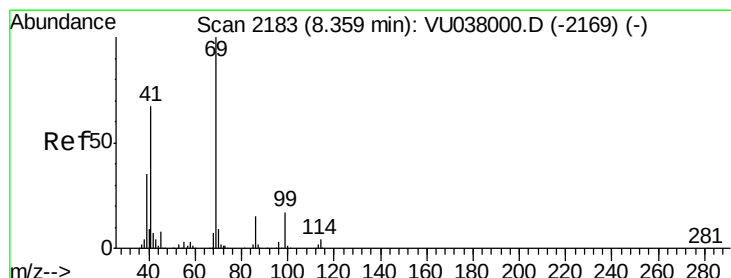
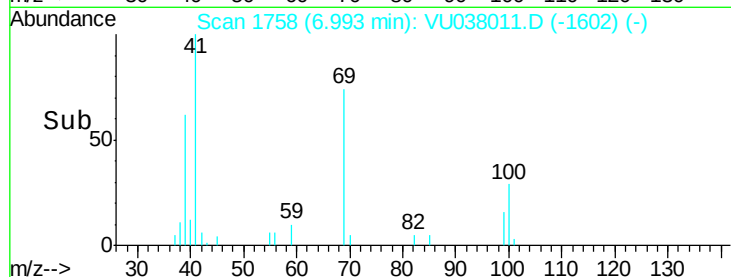
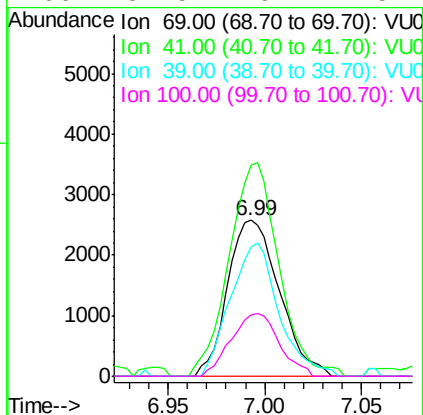
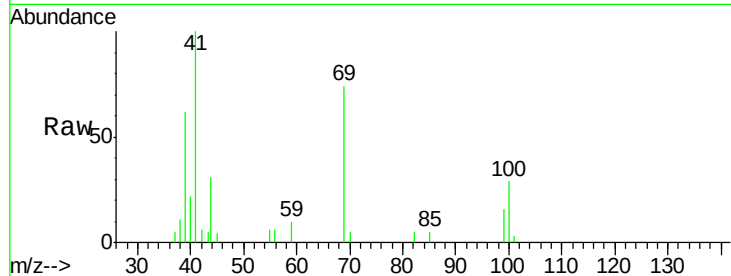
#47
Methvl methacrylate
Concen: 0.369 ug/l
RT: 6.99 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
69	100		
41	131.4	0.0	241.6
39	80.0	52.9	79.3#
100	37.5	29.1	43.7

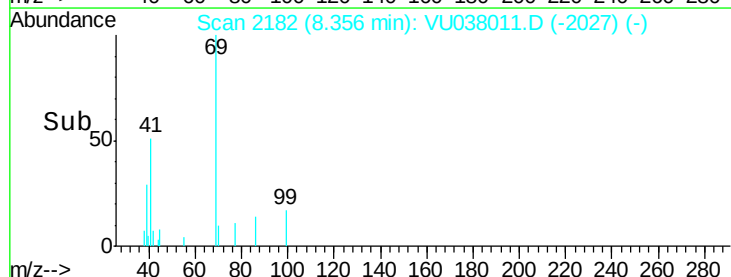
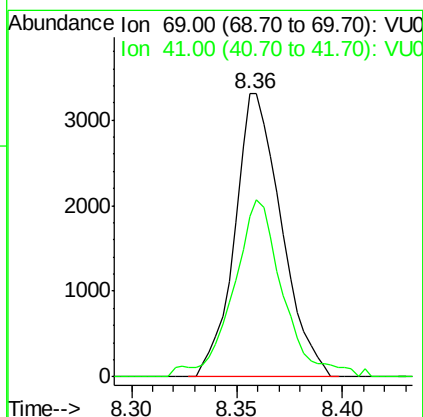
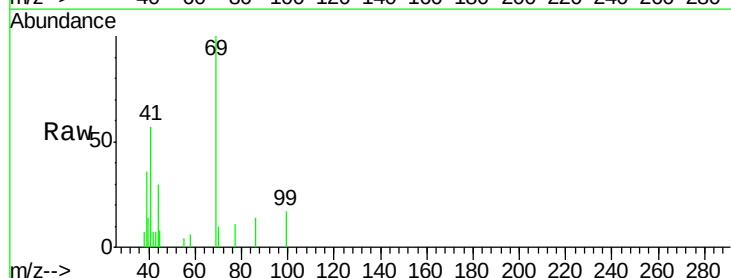
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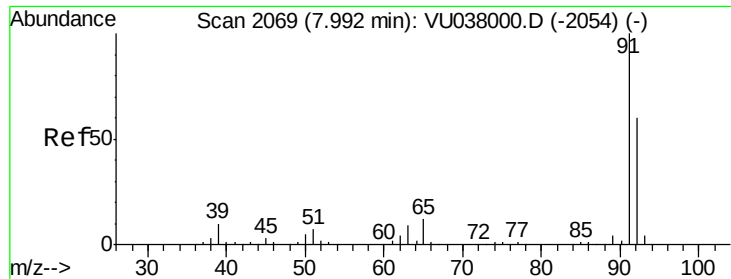
apatel
5/6/2020 10:39:14 AM



#48
Ethyl methacrylate
Concen: 0.211 ug/l
RT: 8.36 min Scan# 2182
Delta R.T. -0.00 min
Lab File: VU038011.D
Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.5	33.6	100.8





#49

Toluene

Concen: 0.210 ug/l

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion: 92 Resp: 13538

Ion Ratio Lower Upper

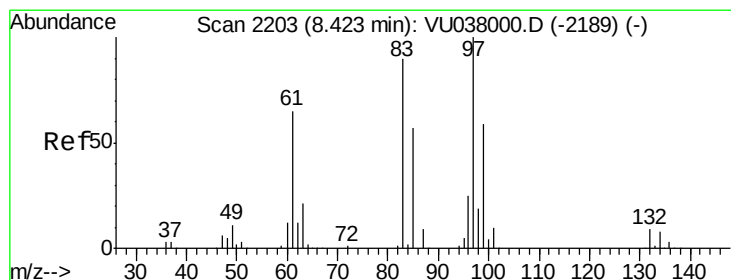
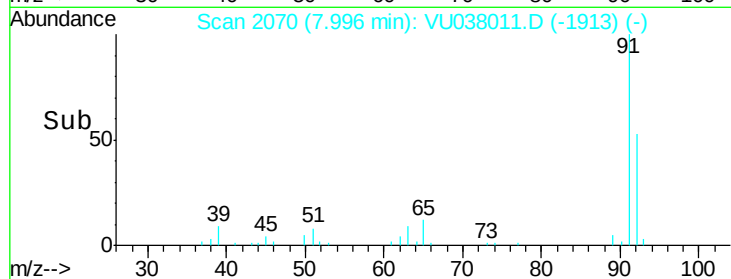
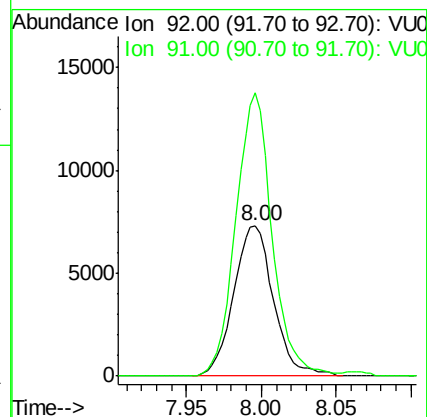
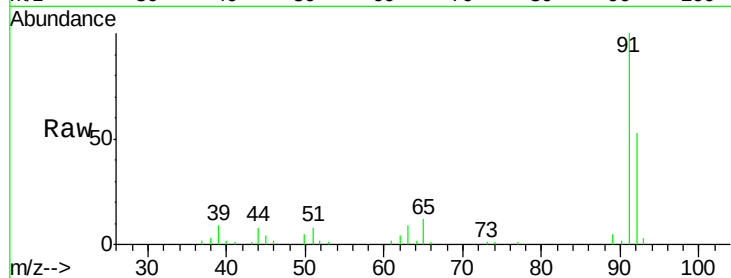
92 100

91 171.4 134.4 201.6

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#52

1,1,2-Trichloroethane

Concen: 0.202 ug/l

RT: 8.43 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion: 97 Resp: 3656

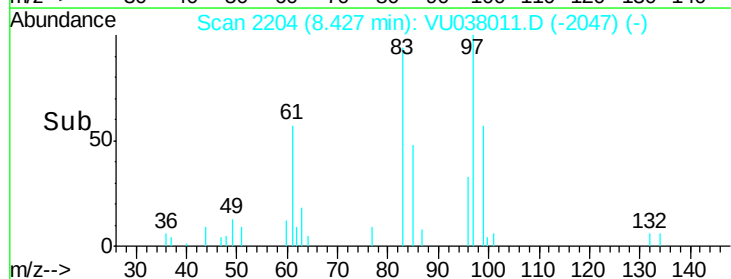
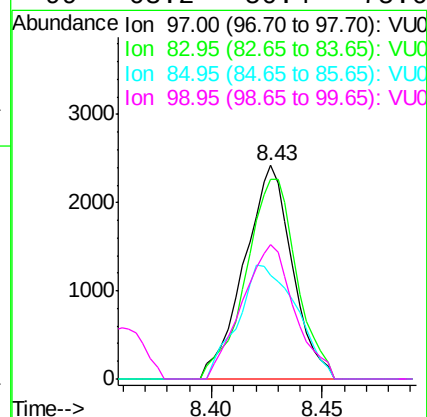
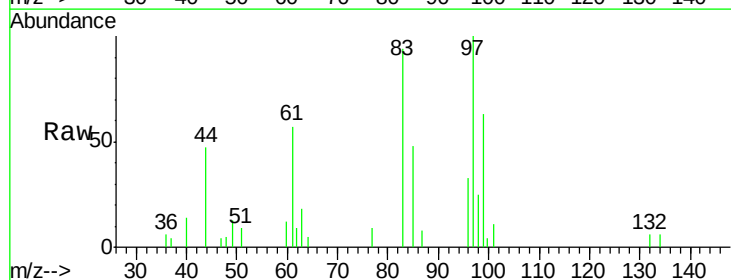
Ion Ratio Lower Upper

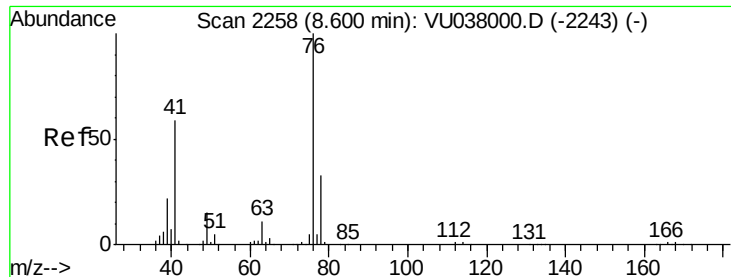
97 100

83 93.7 72.4 108.6

85 48.3 46.0 69.0

99 63.2 50.4 75.6





#53

1,3-Dichloropropane

Concen: 0.229 ug/l

RT: 8.60 min Scan# 2258

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion: 76 Resp: 7791

Ion Ratio Lower Upper

76 100

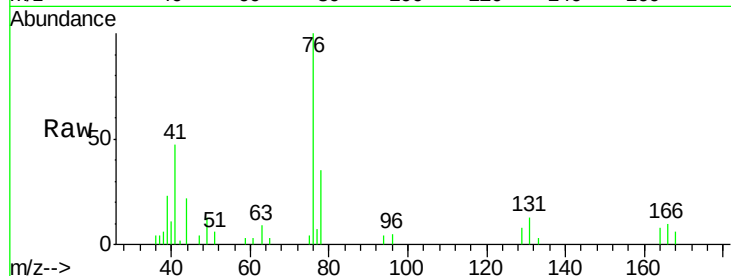
78 35.7 25.8 38.6

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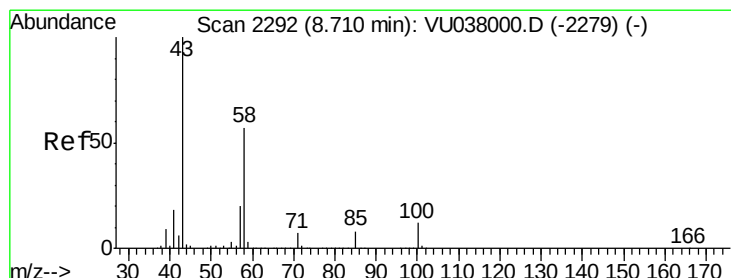
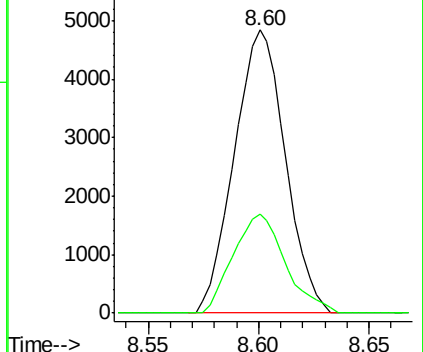
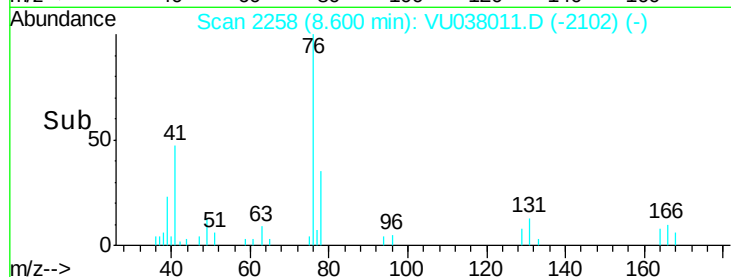
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Abundance Ion 76.00 (75.70 to 76.70): VU038011.D (-2102) (-)

Ion 78.00 (77.70 to 78.70): VU038011.D (-2102) (-)

Time-->



#54

2-Hexanone

Concen: 1.121 ug/l

RT: 8.71 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

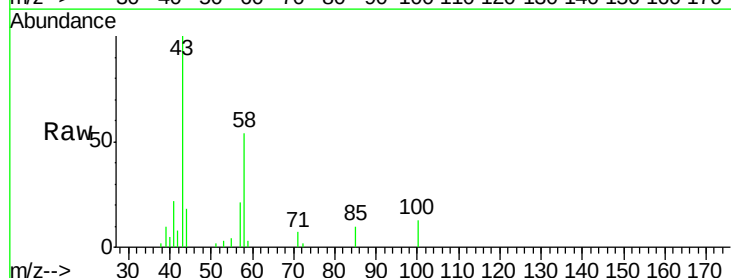
Tgt Ion: 43 Resp: 13776

Ion Ratio Lower Upper

43 100

58 55.8 36.5 76.5

57 18.3 0.0 39.5

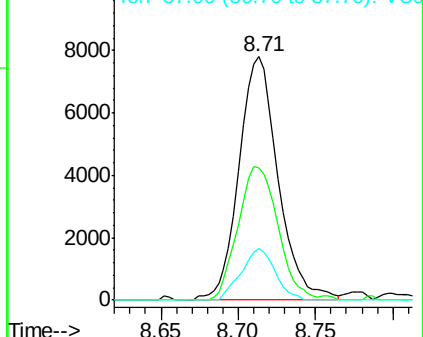
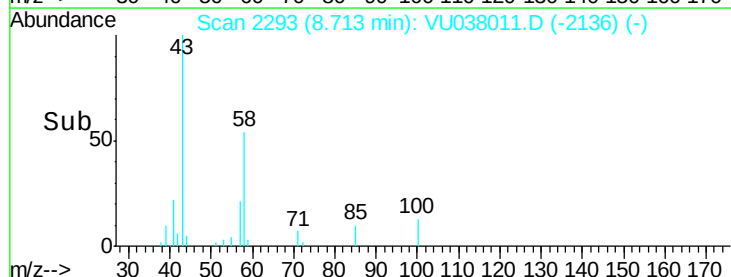


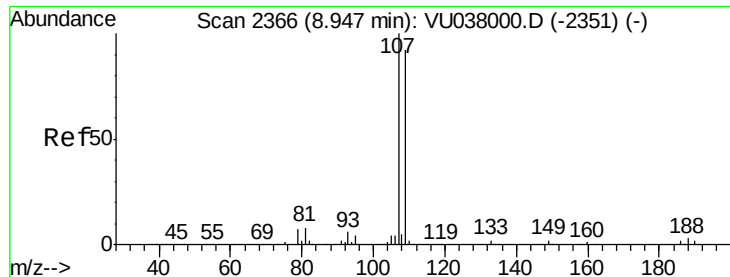
Abundance Ion 43.00 (42.70 to 43.70): VU038011.D (-2136) (-)

Ion 58.00 (57.70 to 58.70): VU038011.D (-2136) (-)

Ion 57.00 (56.70 to 57.70): VU038011.D (-2136) (-)

Time-->





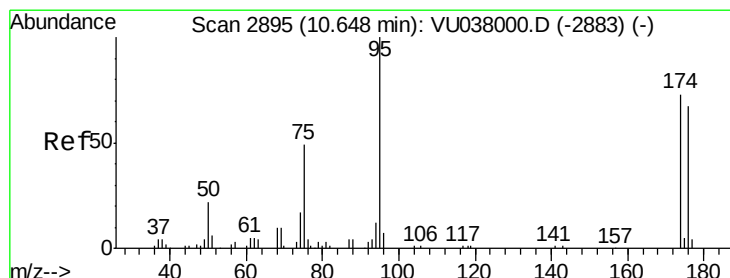
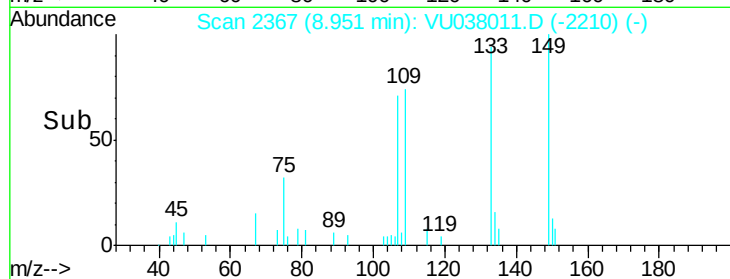
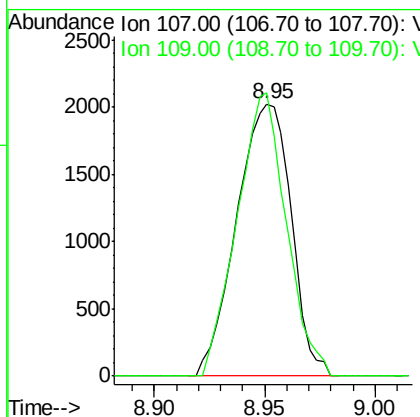
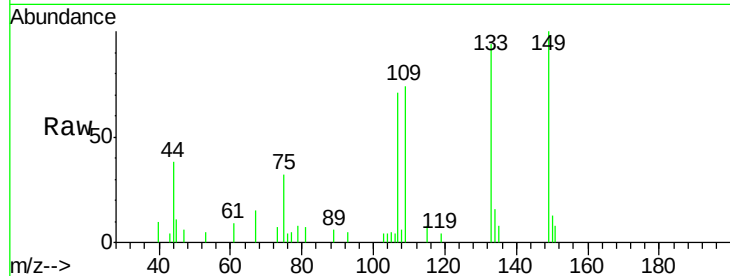
#56
 1,2-Dibromoethane
 Concen: 0.203 ug/l
 RT: 8.95 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	0.0	184.6

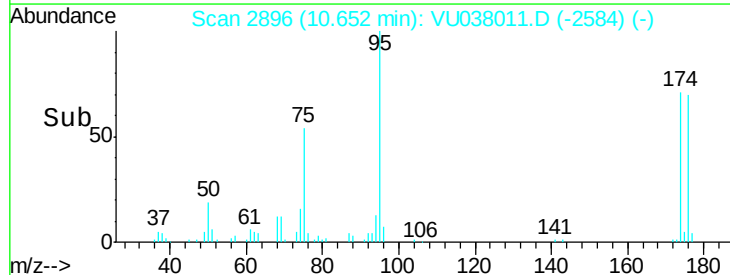
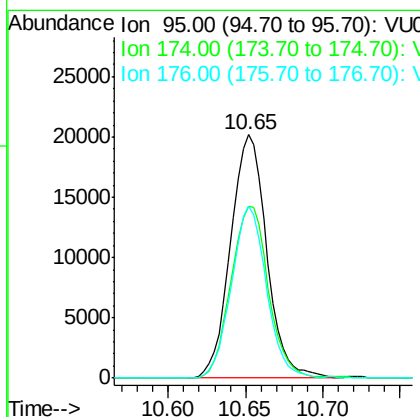
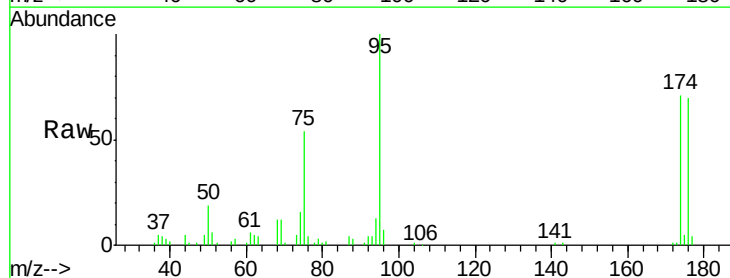
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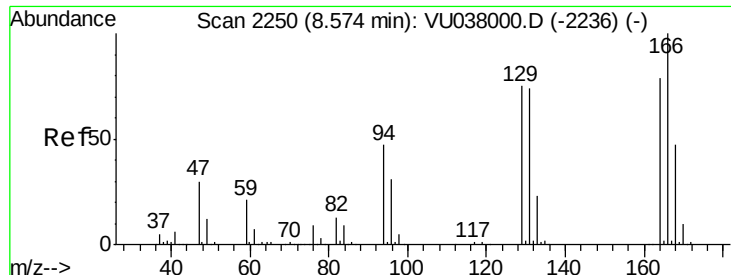
apatel
 5/6/2020 10:39:14 AM



#57
 4-Bromofluorobenzene
 Concen: 0.975 ug/l
 RT: 10.65 min Scan# 2896
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.0	61.2	91.8
176	68.4	57.1	85.7





#58

Tetrachloroethene

Concen: 0.240 ug/l

RT: 8.58 min Scan# 2251

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:164 Resp: 6007

Ion Ratio Lower Upper

164 100

166 110.1 101.5 152.3

129 93.4 76.6 114.8

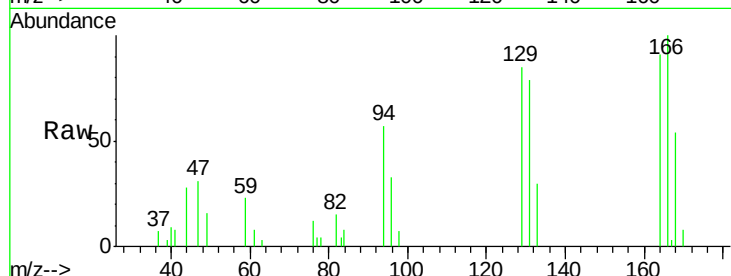
131 86.8 75.0 112.4

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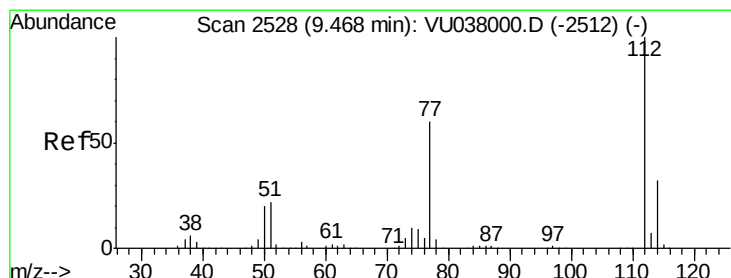
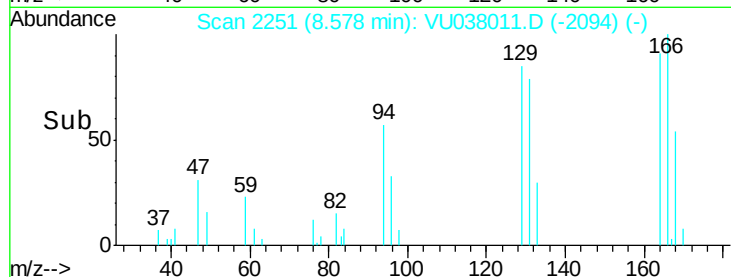
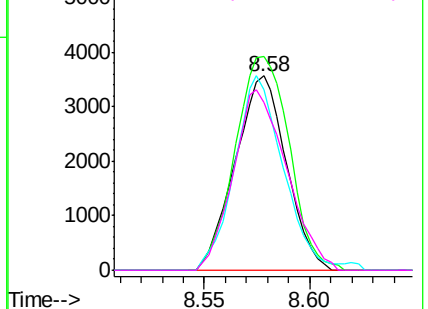


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#59

Chlorobenzene

Concen: 0.220 ug/l

RT: 9.47 min Scan# 2528

Delta R.T. 0.00 min

Lab File: VU038011.D

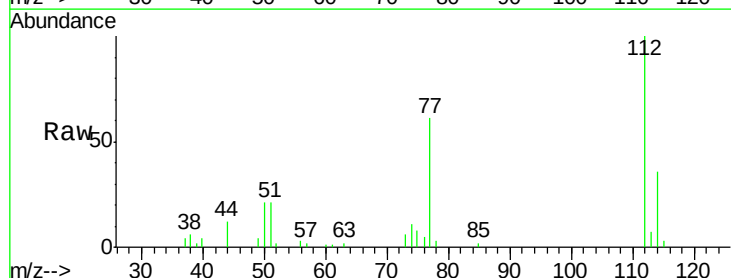
Acq: 05 May 2020 12:11

Tgt Ion:112 Resp: 15056

Ion Ratio Lower Upper

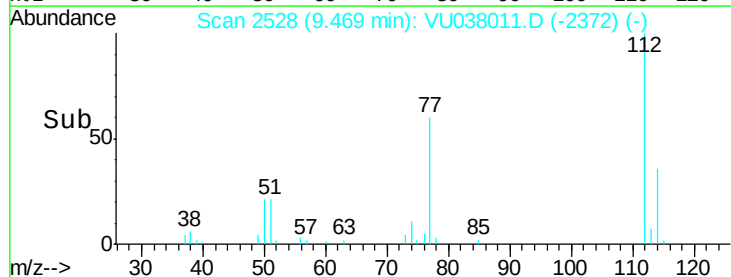
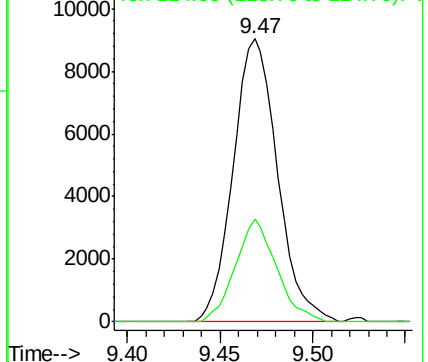
112 100

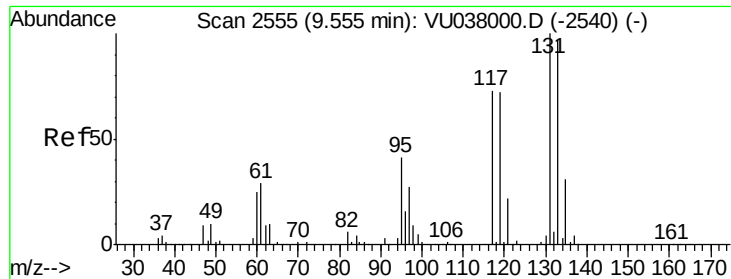
114 36.3 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#60

1,1,1,2-Tetrachloroethane

Concen: 0.201 ug/l

RT: 9.56 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

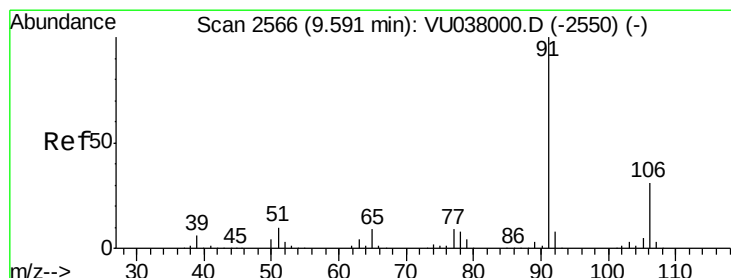
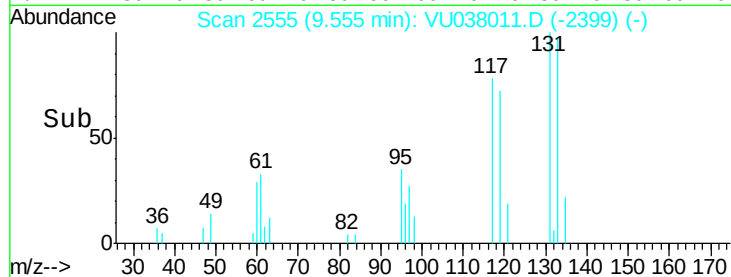
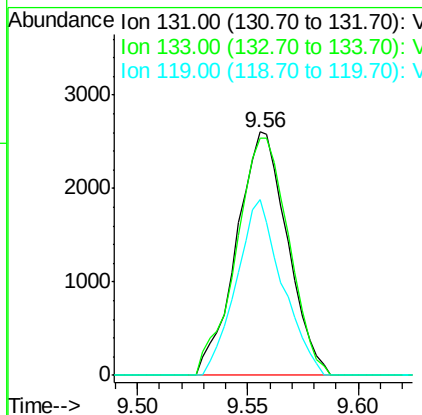
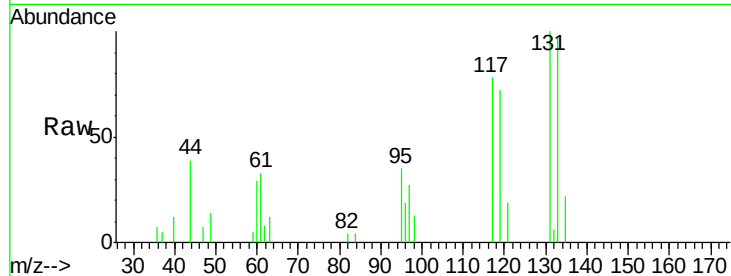
ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:	131	Resp:	4177
Ion	Ratio	Lower	Upper
131	100		
133	100.7	76.8	115.2
119	65.3	56.7	85.1

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#63

Ethyl Benzene

Concen: 0.203 ug/l

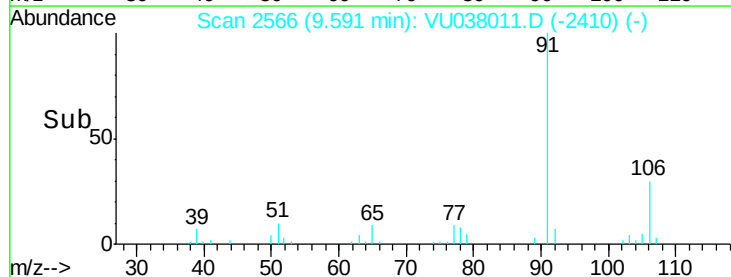
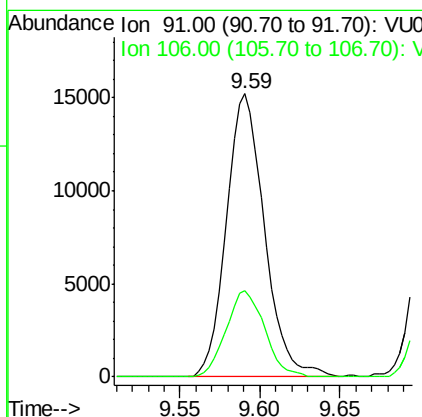
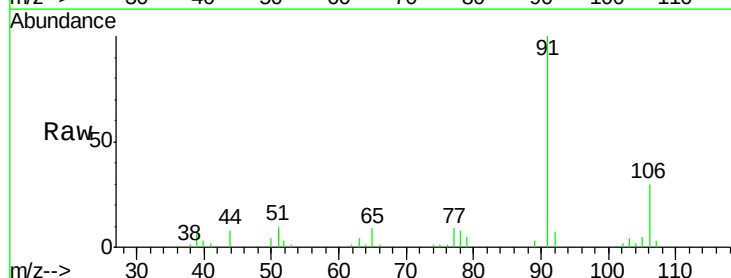
RT: 9.59 min Scan# 2566

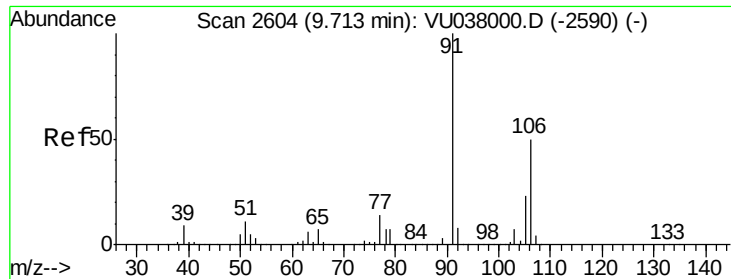
Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion:	91	Resp:	24772
Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.9	37.3





#64

m/p-Xylenes

Concen: 0.395 ug/l

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:106 Resp: 18504

Ion Ratio Lower Upper

106 100

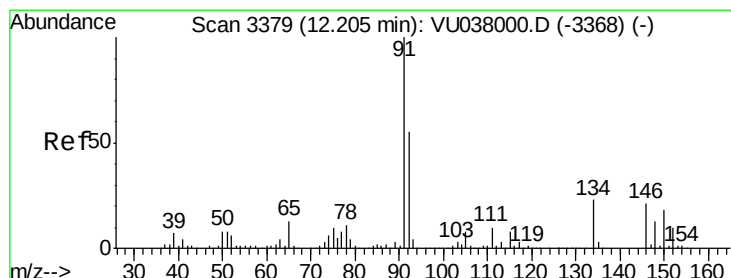
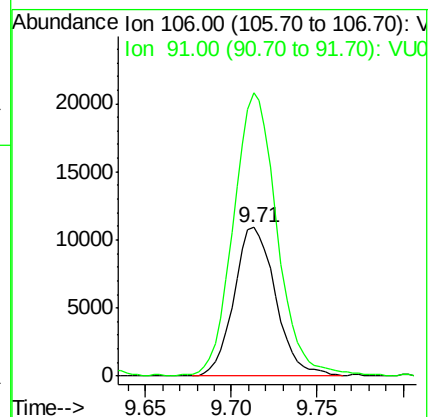
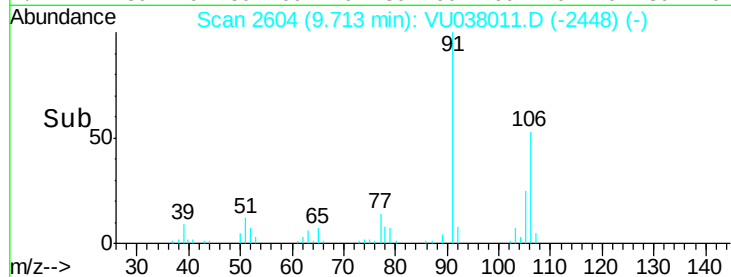
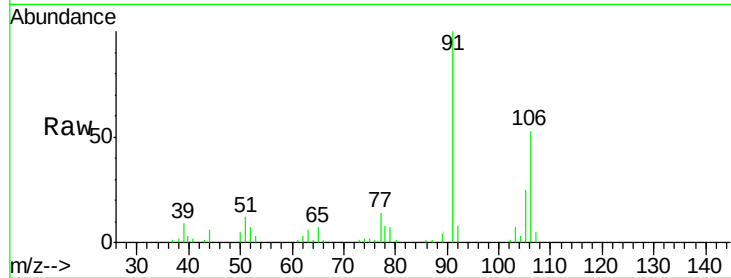
91 199.5 159.5 239.3

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#68

1,2-Dichlorobenzene-d4

Concen: 0.970 ug/l

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

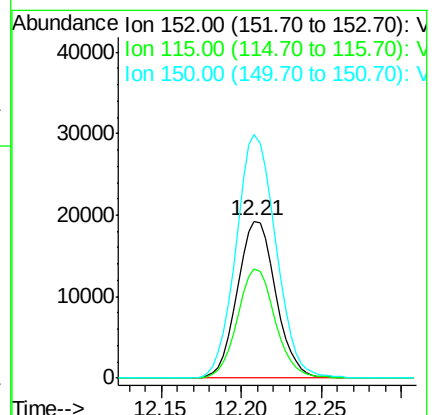
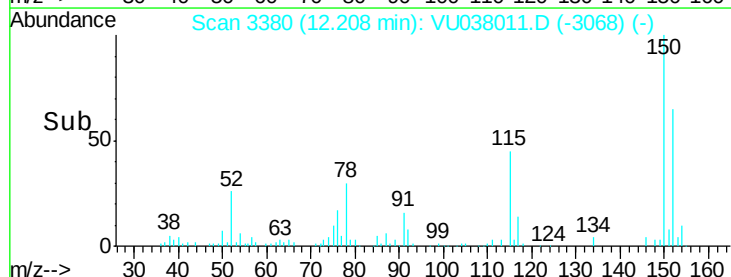
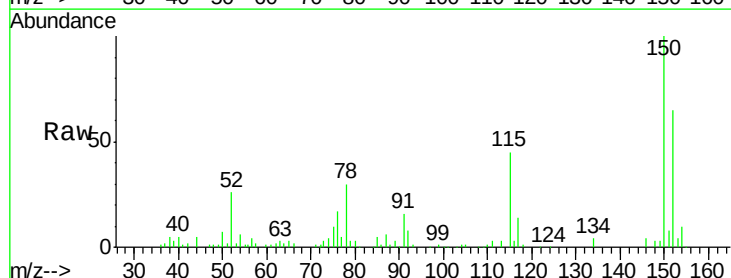
Tgt Ion:152 Resp: 31475

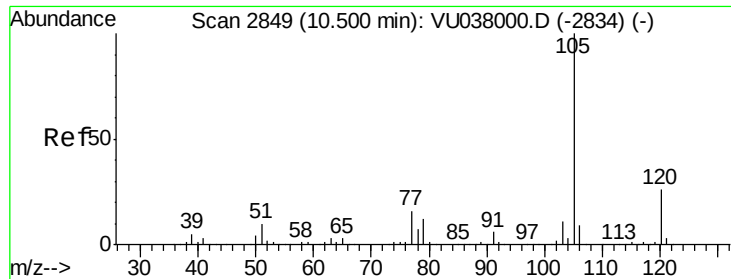
Ion Ratio Lower Upper

152 100

115 68.2 0.0 261.0

150 161.2 0.0 650.2





#69

Isopropylbenzene

Concen: 0.203 ug/l

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:105 Resp: 24264

Ion Ratio Lower Upper

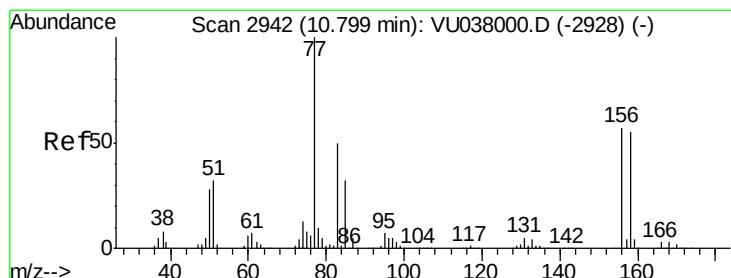
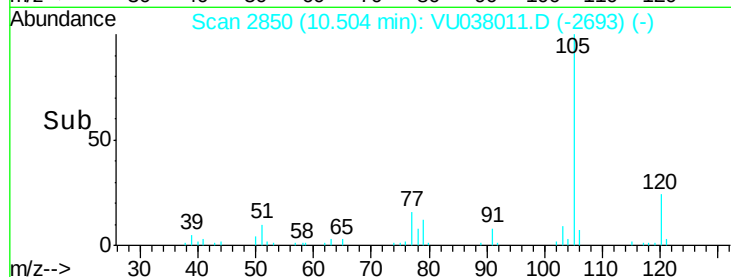
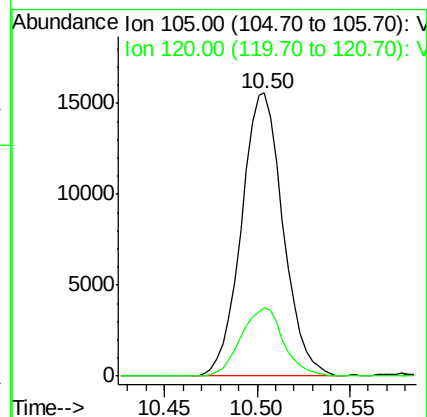
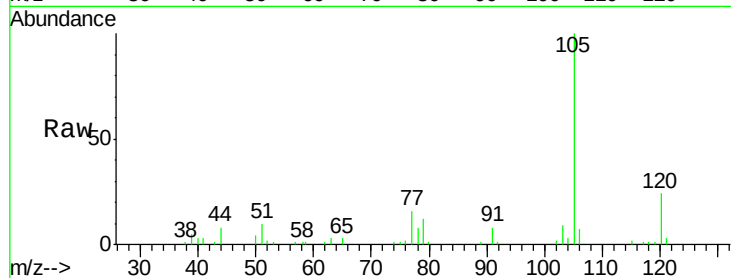
105 100

120 24.4 13.1 39.3

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.232 ug/l

RT: 10.80 min Scan# 2943

Delta R.T. 0.00 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

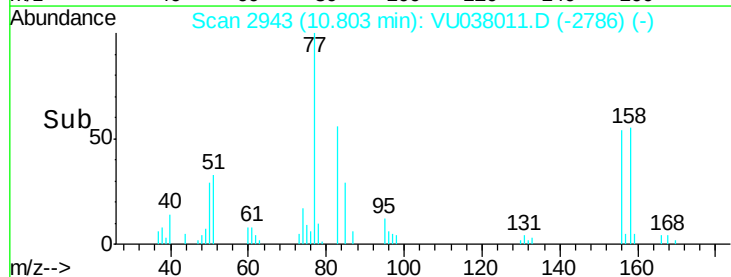
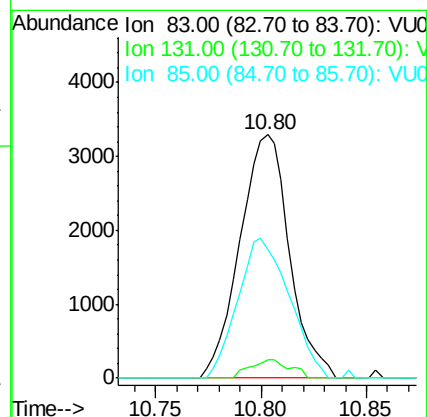
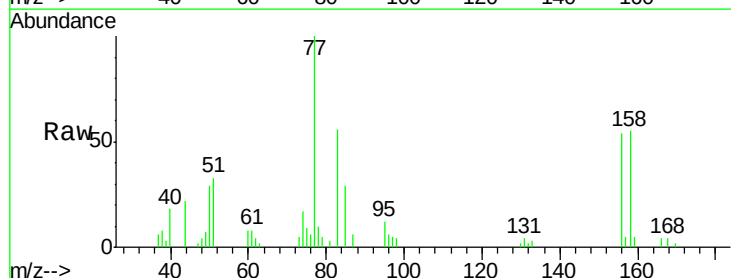
Tgt Ion: 83 Resp: 5373

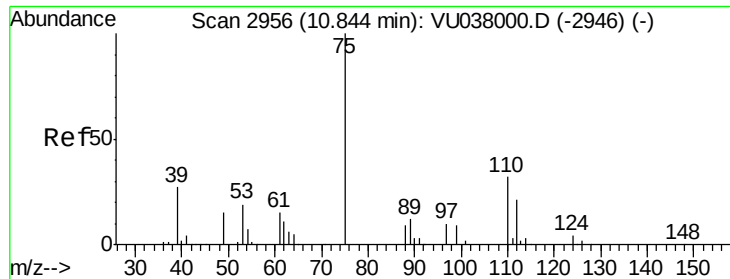
Ion Ratio Lower Upper

83 100

131 5.9 7.2 10.8#

85 59.6 50.0 75.0





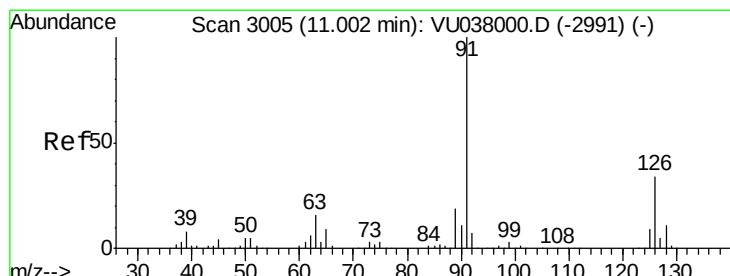
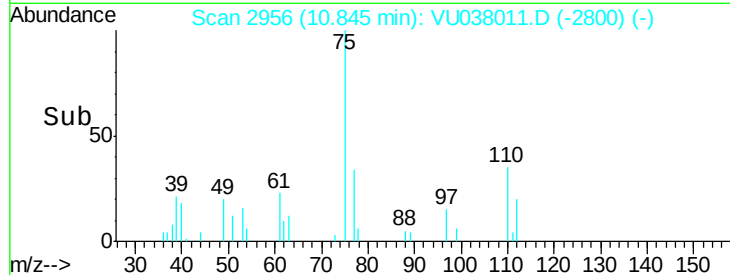
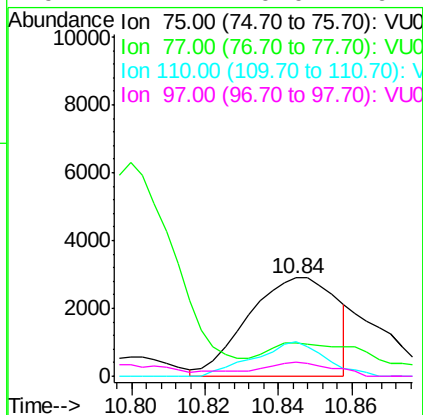
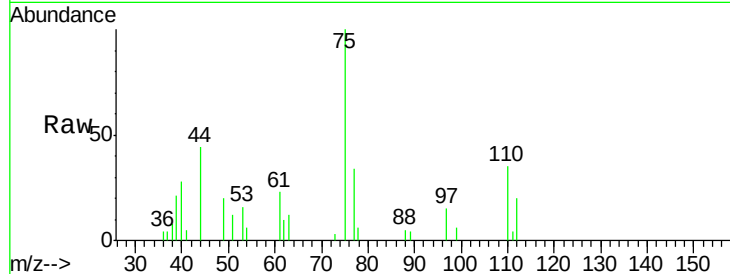
#71
 1,2,3-Trichloropropane
 Concen: 0.283 ug/l m
 RT: 10.84 min Scan# 2956
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion:	75	Resp:	4858
Ion Ratio	Lower	Upper	
75	100		
77	42.1	0.0	108.6
110	27.9	0.0	79.4
97	11.2	0.0	40.4

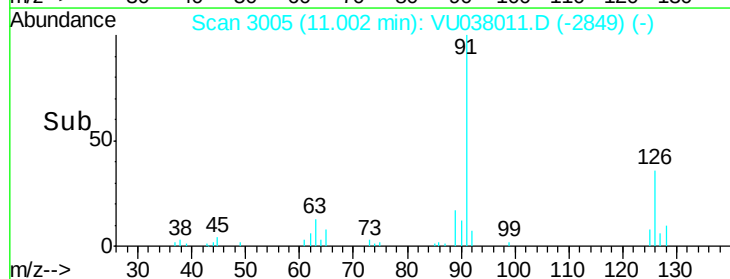
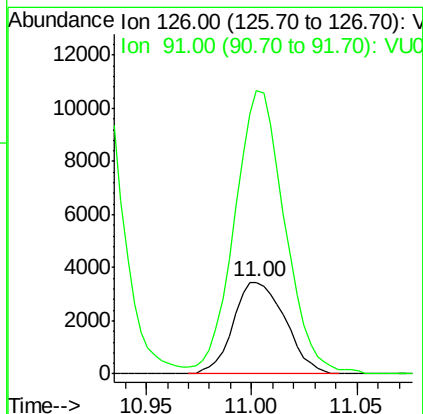
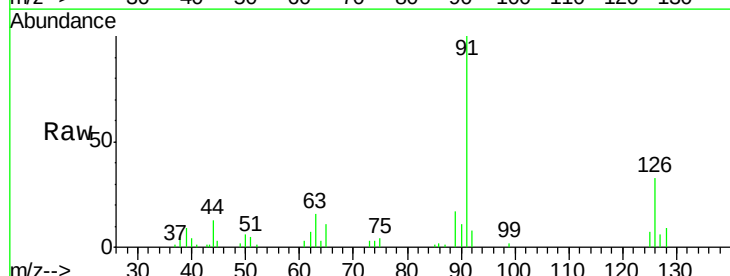
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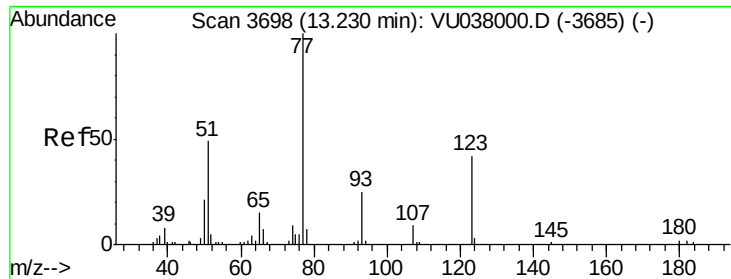
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#74
 2-Chlorotoluene
 Concen: 0.214 ug/l
 RT: 11.00 min Scan# 3005
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion:	126	Resp:	5891
Ion Ratio	Lower	Upper	
126	100		
91	299.8	0.0	625.8





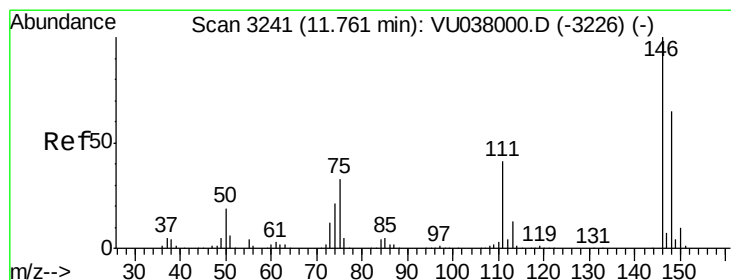
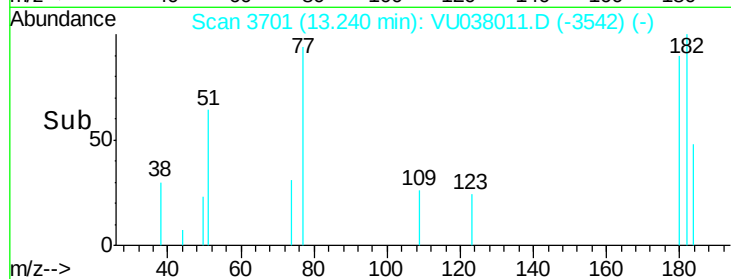
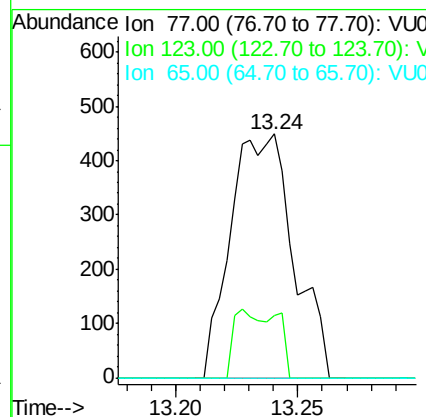
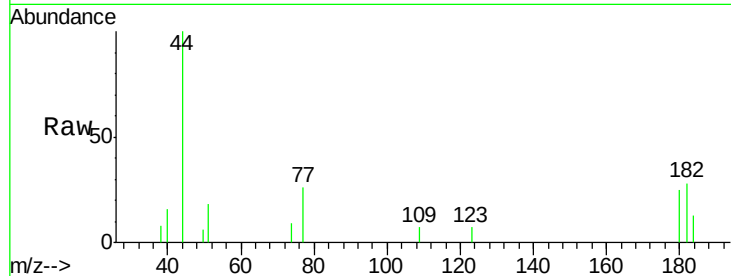
#80
 Nitrobenzene
 Concen: 1.172 ug/l m
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.01 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
77	100		
123	13.4	17.6	62.6#
65	0.0	13.2	16.8#

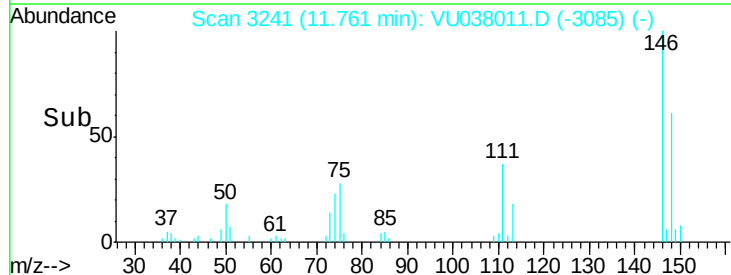
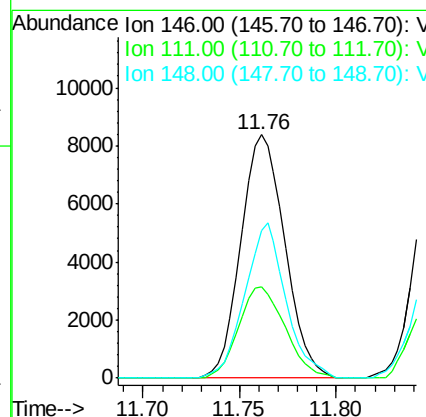
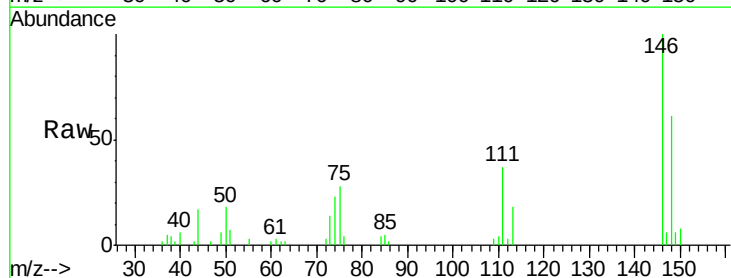
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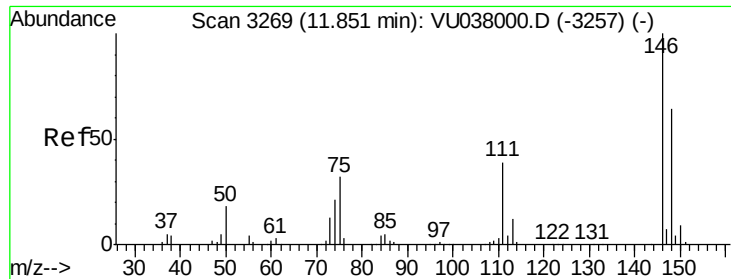
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#82
 1,3-Dichlorobenzene
 Concen: 0.240 ug/l
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	33.0	49.4
148	59.7	51.4	77.2





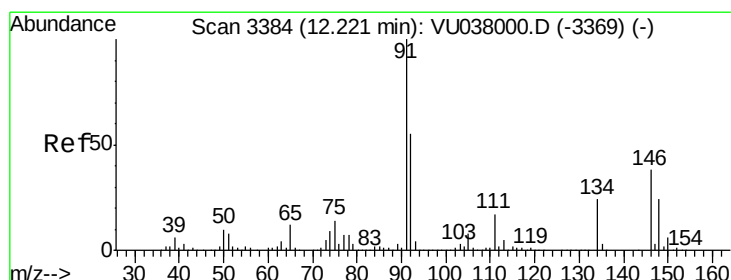
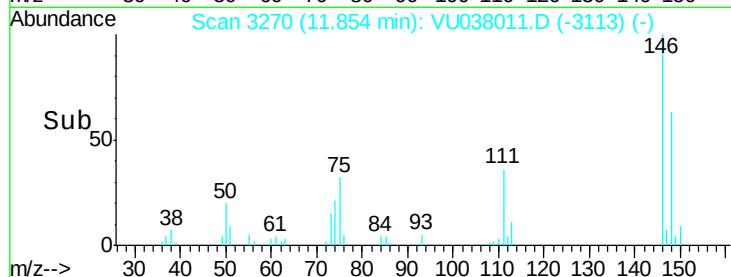
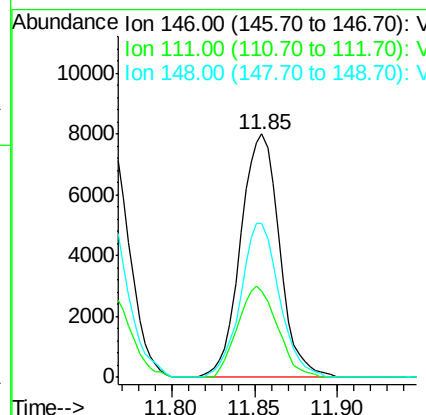
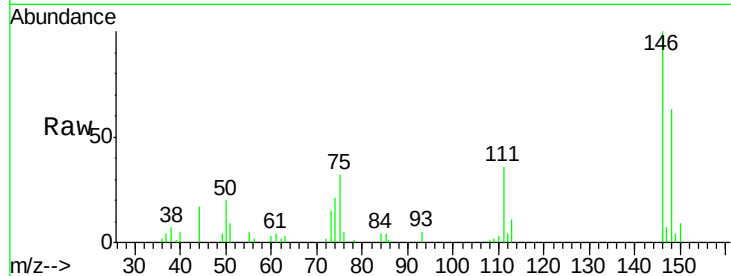
#83
 1,4-Dichlorobenzene
 Concen: 0.234 ug/l
 RT: 11.85 min Scan# 3270
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	31.8	47.6
148	63.1	51.2	76.8

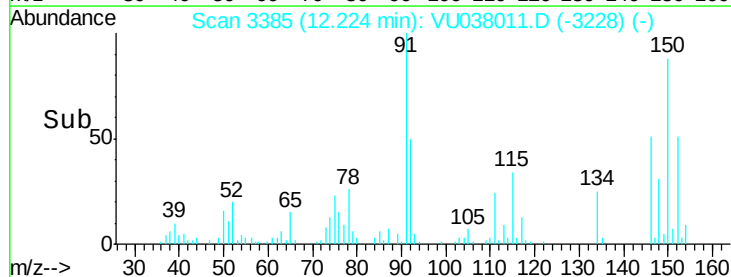
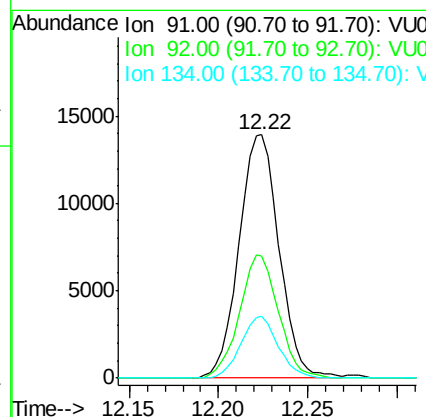
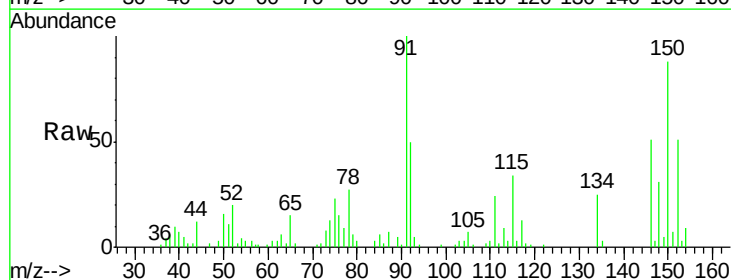
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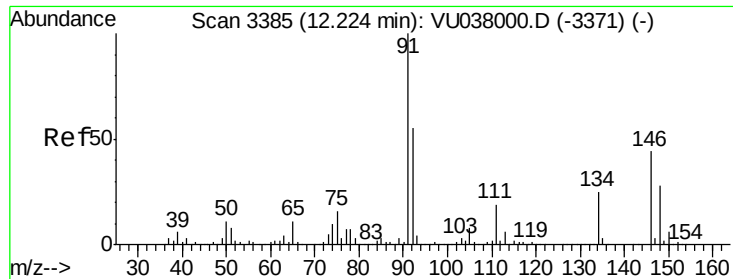
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#84
 n-Butylbenzene
 Concen: 0.201 ug/l
 RT: 12.22 min Scan# 3385
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.0	43.8	65.6
134	23.5	19.4	29.2





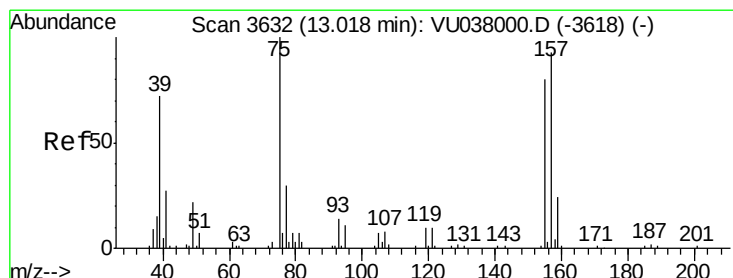
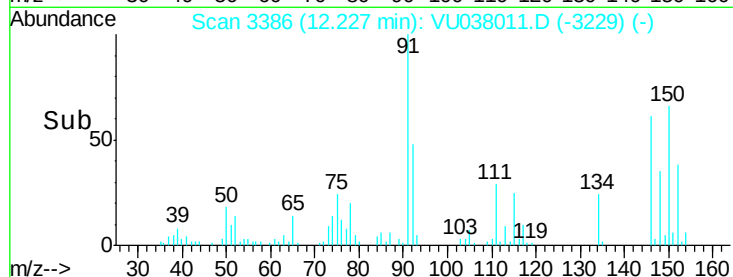
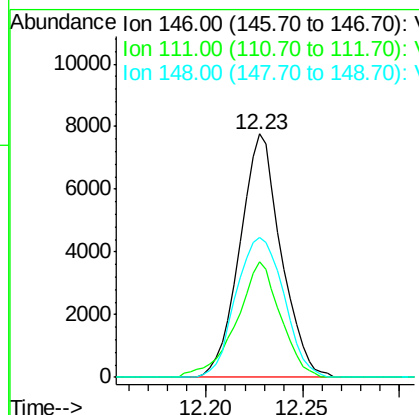
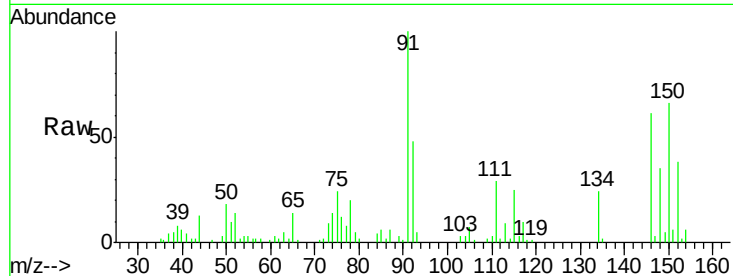
#85
 1,2-Dichlorobenzene
 Concen: 0.224 ug/l
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.2	21.9	65.8
148	66.7	31.8	95.4

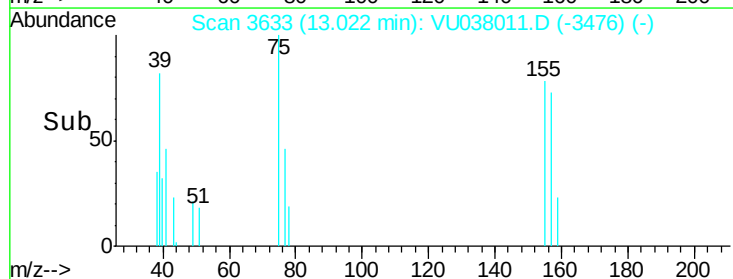
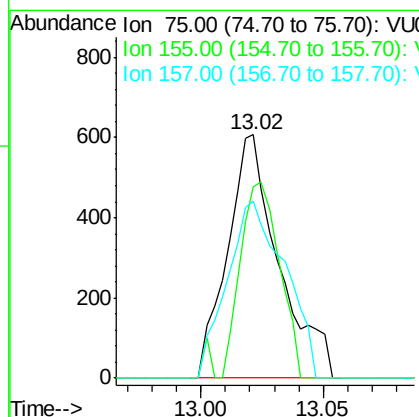
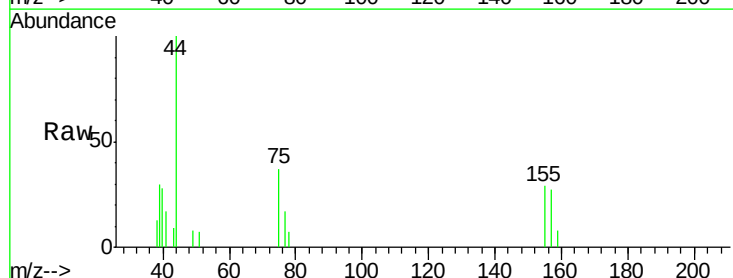
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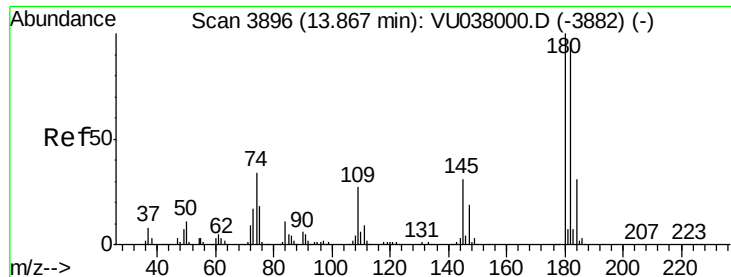
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#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.242 ug/l
 RT: 13.02 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	61.0	60.9	91.3
157	82.4	78.1	117.1





#87

1,2,4-Trichlorobenzene

Concen: 0.235 ug/l

RT: 13.87 min Scan# 3898

Delta R.T. 0.01 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Instrument :

MSVOA_U

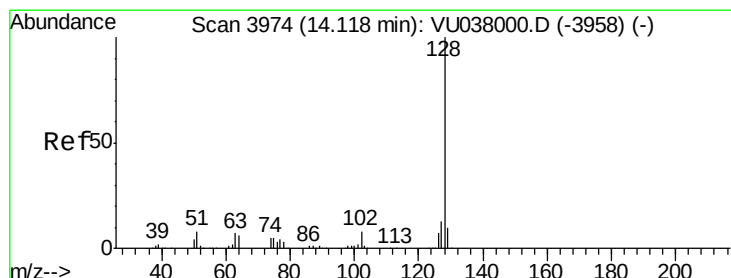
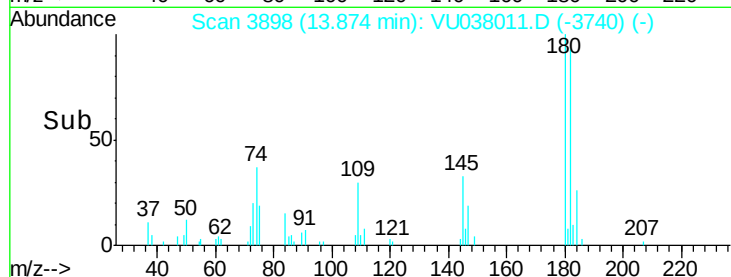
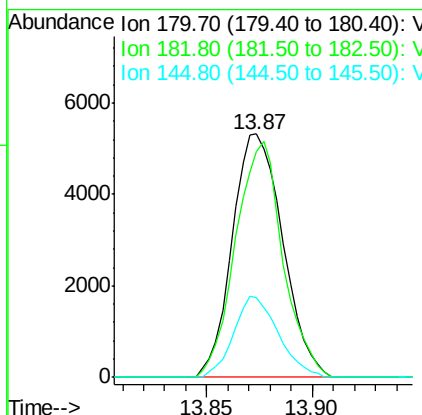
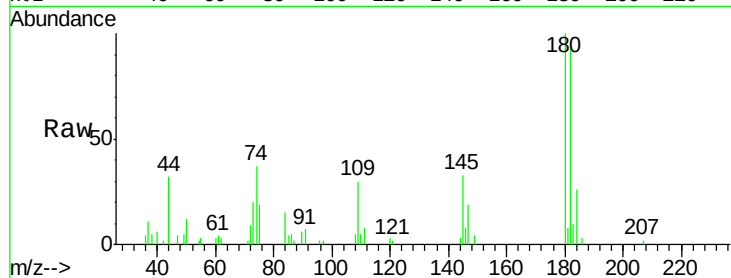
ClientSampleId :

MDL-WATER-03-QT2-2020

Tot Ion:	180	Resp:	8840
Ion	Ratio	Lower	Upper
180	100		
182	90.6	76.9	115.3
145	29.6	24.7	37.1

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#89

Naphthalene

Concen: 0.221 ug/l

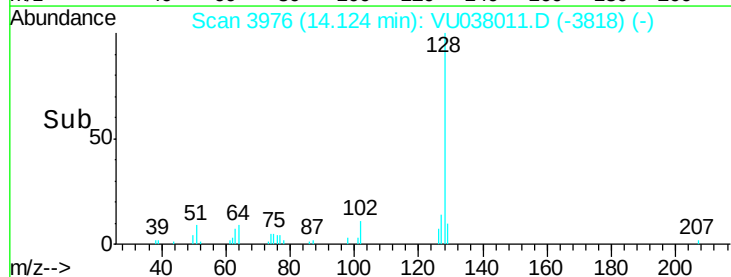
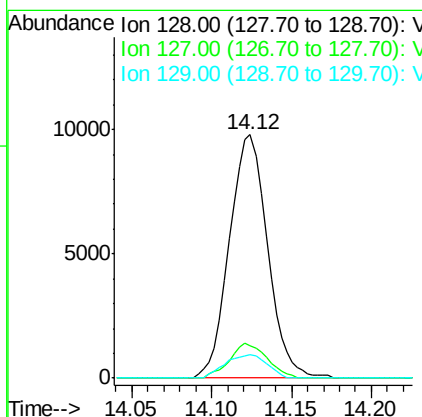
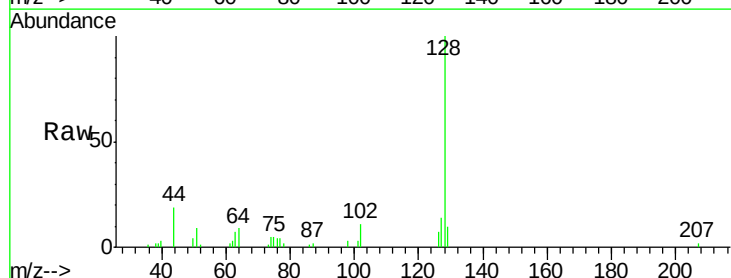
RT: 14.12 min Scan# 3976

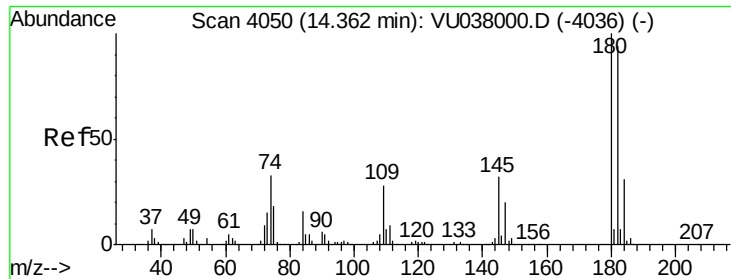
Delta R.T. 0.01 min

Lab File: VU038011.D

Acq: 05 May 2020 12:11

Tgt Ion:	128	Resp:	15920
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.4	15.6
129	10.5	8.6	12.8





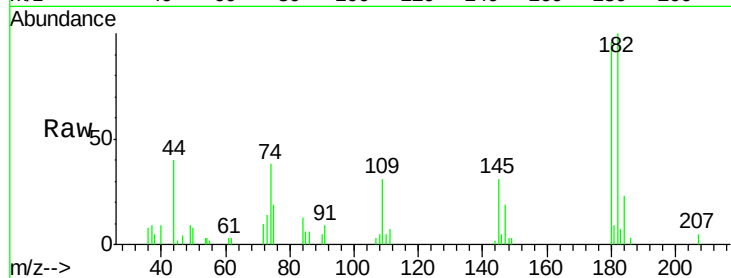
#90
 1,2,3-Trichlorobenzene
 Concen: 0.233 ug/l
 RT: 14.37 min Scan# 4052
 Delta R.T. 0.01 min
 Lab File: VU038011.D
 Acq: 05 May 2020 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT2-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.9	113.9
145	31.5	26.0	39.0

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Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.70 (181.40 to 182.40): V
 Ion 144.80 (144.50 to 145.50): V

