

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102220\
 Data File : VU040919.D
 Acq On : 22 Oct 2020 23:24
 Operator : SY/MD
 Sample : L4214-07 0.25PPB
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 LOD-MDL-WATER-01-QT4-2020

Manual Integrations
 APPROVED

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 10/26/2020 4:15:20 PM

Quant Time: Oct 23 07:30:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U102220DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Oct 23 07:00:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.13	96	51857	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.63	95	14793	0.78	ug/l	0.00
Spiked Amount 1.000			Recovery	=	78.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	15976	0.81	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.39	85	5631	0.233	ug/l	99
3) Chloromethane	1.53	50	6514	0.258	ug/l	96
4) Vinyl Chloride	1.61	62	5415	0.231	ug/l #	86
5) Bromomethane	1.87	94	3816	0.277	ug/l	91
6) Chloroethane	1.94	64	3849	0.268	ug/l	100
7) Trichlorofluoromethane	2.15	101	7883	0.266	ug/l	97
8) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3825	0.232	ug/l	99
9) 1,1-Dichloroethene	2.59	96	3597	0.250	ug/l	85
10) Iodomethane	2.74	142	2794	0.200	ug/l	98
11) Allyl Chloride	2.94	41	7927	0.268	ug/l	94
12) Acrylonitrile	3.34	53	2474	0.489	ug/l #	65
13) Acetone	2.66	43	6139	1.449	ug/l #	78
14) Carbon Disulfide	2.81	76	14036	0.260	ug/l	99
15) Methylene Chloride	3.06	84	6918	0.371	ug/l	92
16) trans-1,2-Dichloroethene	3.37	96	4256	0.262	ug/l	99
17) 1,1-Dichloroethane	3.88	63	9041m	0.272	ug/l	
18) 2-Butanone	4.75	43	8499	1.240	ug/l	96
19) Cyclohexane	5.40	56	7306m	0.234	ug/l	
21) 2,2-Dichloropropane	4.68	77	7460	0.266	ug/l #	74
22) cis-1,2-Dichloroethene	4.69	96	4900	0.283	ug/l	95
23) Diethyl Ether	2.39	59	3707	0.261	ug/l	91
24) tert-Butyl Alcohol	3.21	59	1552	0.981	ug/l #	72
25) Methyl tert-Butyl Ether	3.39	73	10585	0.238	ug/l #	88
26) Bromochloromethane	4.99	128	2078	0.276	ug/l	93
27) Chloroform	5.11	83	8090	0.255	ug/l	98
28) 1,1,1-Trichloroethane	5.33	97	7153	0.261	ug/l	97
29) 1,1-Dichloropropene	5.54	75	5821	0.243	ug/l	94
30) Carbon Tetrachloride	5.54	117	5734	0.231	ug/l	96
31) Isopropyl Ether	4.02	45	13722	0.267	ug/l	87
32) Ethyl-t-butyl ether	4.53	59	10533	0.233	ug/l #	70
33) Tert-Amyl methyl ether	5.96	73	7176	0.213	ug/l	96
34) Propionitrile	4.83	54	1494m	0.794	ug/l	
35) Benzene	5.78	78	14271	0.215	ug/l	98
36) 1,2-Dichloroethane	5.82	62	6094	0.247	ug/l #	84
37) Trichloroethene	6.55	130	3659	0.233	ug/l	98
38) 1,2-Dichloropropane	6.81	63	3823	0.203	ug/l #	86
39) Methacrylonitrile	5.01	41	2467	0.280	ug/l #	77
40) Methyl acrylate	4.87	55	3194m	0.264	ug/l	
41) Tetrahydrofuran	5.10	42	2813m	0.620	ug/l	
42) 1-Chlorobutane	5.48	56	9243	0.255	ug/l	92
43) Dibromomethane	6.93	93	2474	0.234	ug/l #	76

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 LOD-MDL-WATER-01-QT4-2020

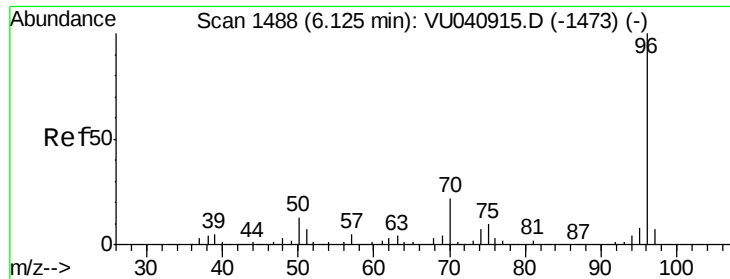
Manual Integrations
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Quant Time: Oct 23 07:30:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U102220DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Oct 23 07:00:16 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Bromodichloromethane	7.12	83	5372	0.219	ug/l	97
45) 4-Methyl-2-Pentanone	7.81	43	13843	0.997	ug/l	99
46) t-1,4-Dichloro-2-butene	10.84	75	1105m	0.201	ug/l	
47) Methyl methacrylate	6.98	69	3071	0.348	ug/l #	85
50) t-1,3-Dichloropropene	8.22	75	4433	0.209	ug/l	90
52) 1,1,2-Trichloroethane	8.40	97	3207	0.240	ug/l #	84
53) 1,3-Dichloropropane	8.58	76	5159	0.215	ug/l	99
54) 2-Hexanone	8.70	43	9478	0.977	ug/l	91
55) Dibromochloromethane	8.81	129	3758	0.234	ug/l	97
56) 1,2-Dibromoethane	8.93	107	2981	0.240	ug/l	84
58) Tetrachloroethene	8.55	164	3080	0.209	ug/l	86
60) 1,1,1,2-Tetrachloroethane	9.54	131	3234	0.213	ug/l	94
61) Pentachloroethane	11.42	117	2901	0.236	ug/l	95
62) Hexachloroethane	12.47	117	2688	0.215	ug/l	99
64) m/p-Xylenes	9.69	106	6834	0.280	ug/l	88
67) Bromoform	10.29	173	1970	0.227	ug/l #	89
70) 1,1,2,2-Tetrachloroethane	10.78	83	4120	0.226	ug/l #	95
71) 1,2,3-Trichloropropane	10.83	75	4430m	0.319	ug/l	
80) Nitrobenzene	13.20	77	910m	1.057	ug/l	
86) 1,2-Dibromo-3-Chloropropan	12.99	75	703m	0.207	ug/l	
88) Hexachlorobutadiene	14.01	225	2464	0.229	ug/l	95

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.13 min Scan# 1489

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

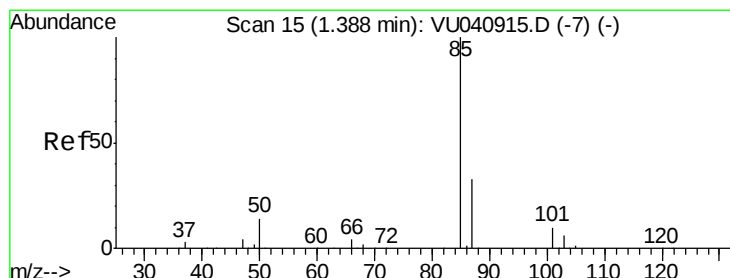
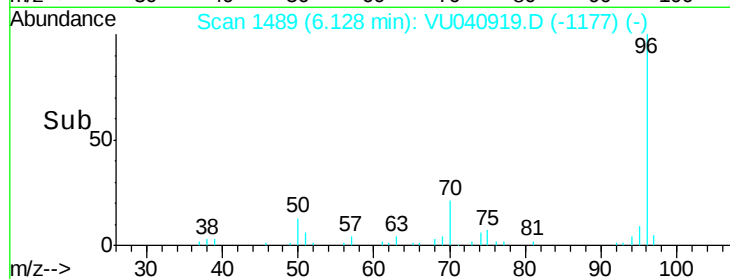
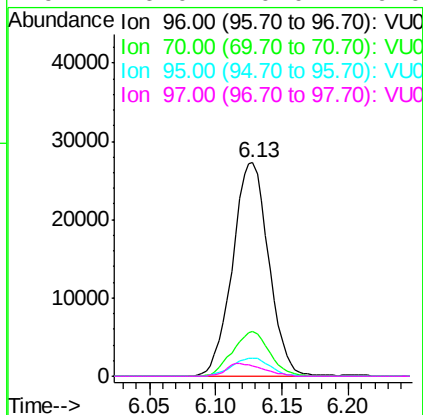
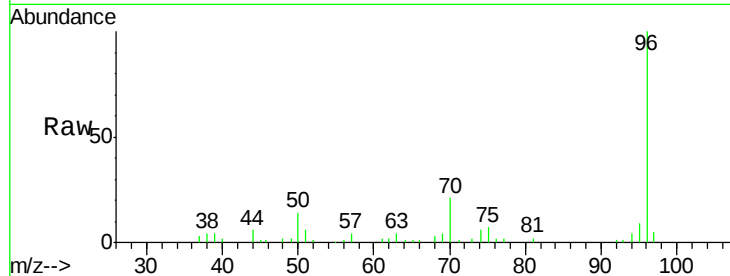
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	96	Resp:	51857
Ion Ratio	Lower	Upper	
96	100		
70	21.3	16.3	24.5
95	8.7	7.3	10.9
97	6.0	0.0	0.0#

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#2

Dichlorodifluoromethane

Concen: 0.233 ug/l

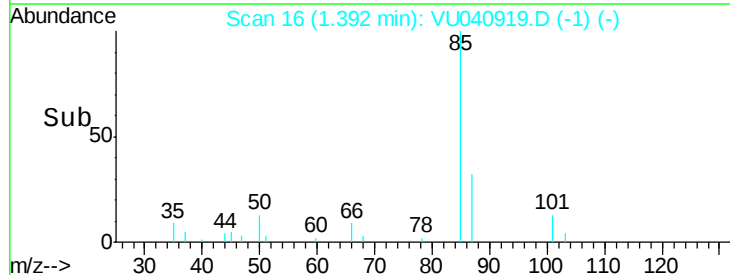
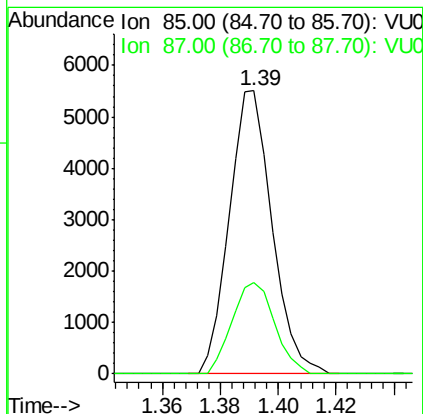
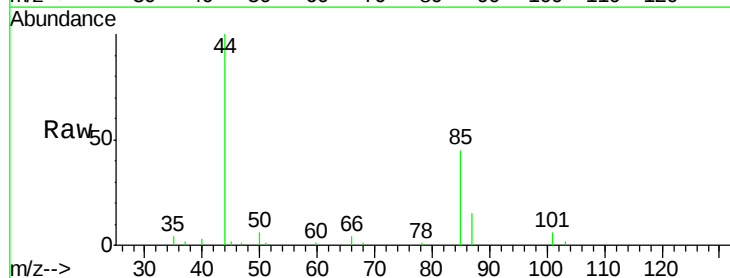
RT: 1.39 min Scan# 16

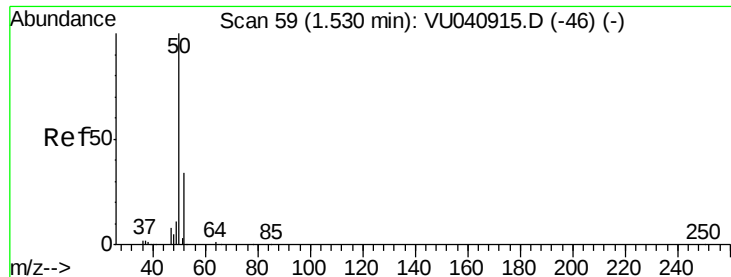
Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Tgt Ion:	85	Resp:	5631
Ion Ratio	Lower	Upper	
85	100		
87	32.5	16.5	49.5





#3

Chloromethane

Concen: 0.258 ug/l

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 50 Resp: 6514

Ion Ratio Lower Upper

50 100

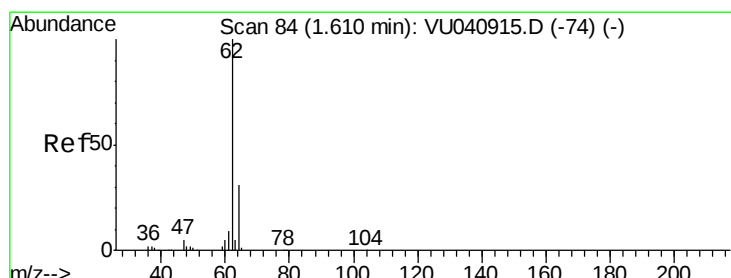
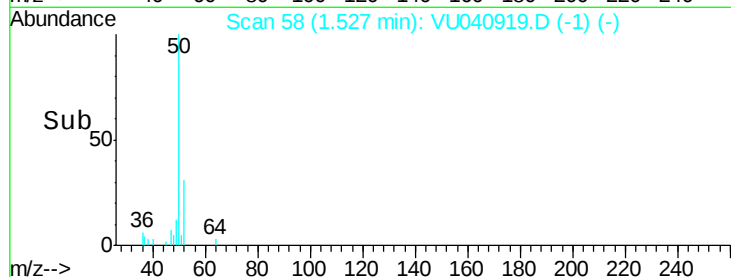
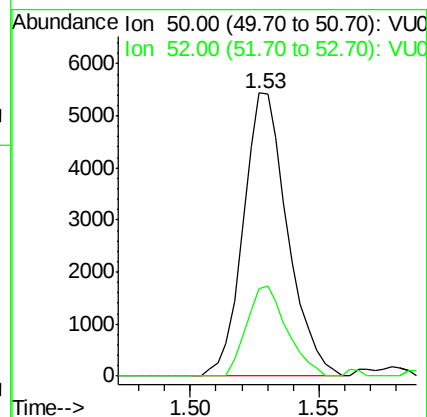
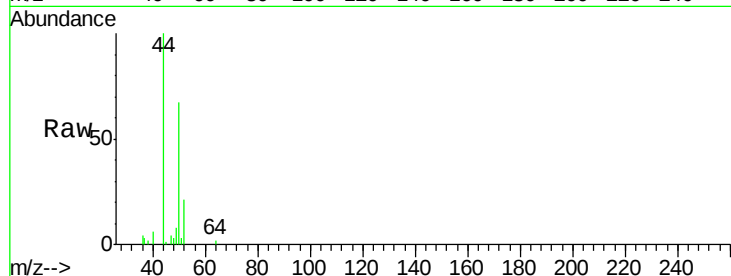
52 31.1 26.9 40.3

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#4

Vinyl Chloride

Concen: 0.231 ug/l

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040919.D

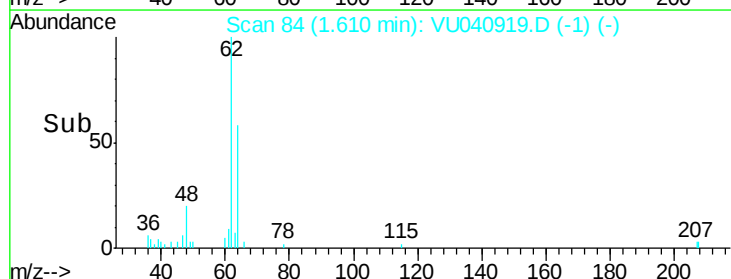
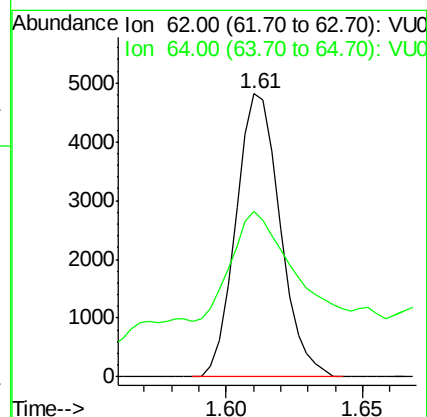
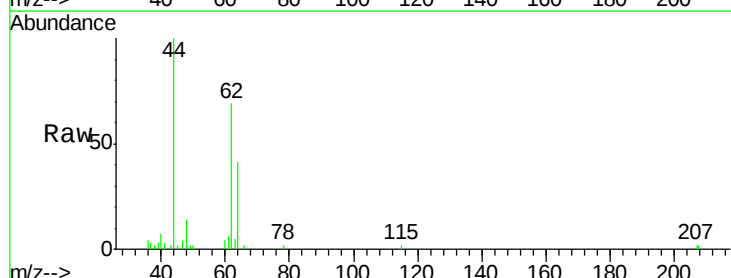
Acq: 22 Oct 2020 23:24

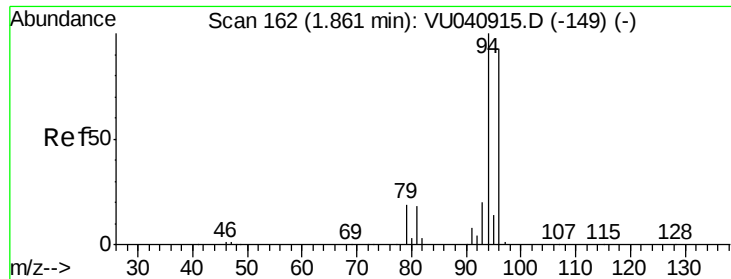
Tgt Ion: 62 Resp: 5415

Ion Ratio Lower Upper

62 100

64 38.7 24.7 37.1#





#5

Bromomethane

Concen: 0.277 ug/l

RT: 1.87 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 94 Resp: 3816

Ion Ratio Lower Upper

94 100

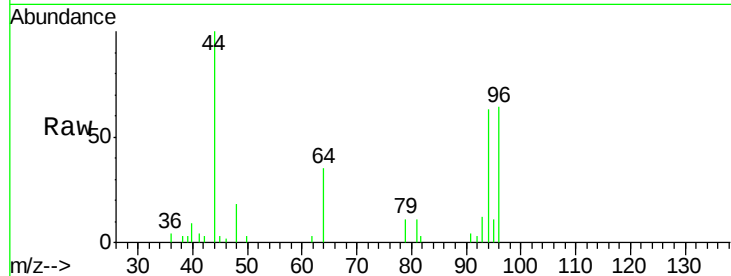
96 101.3 74.4 111.6

Manual Integrations

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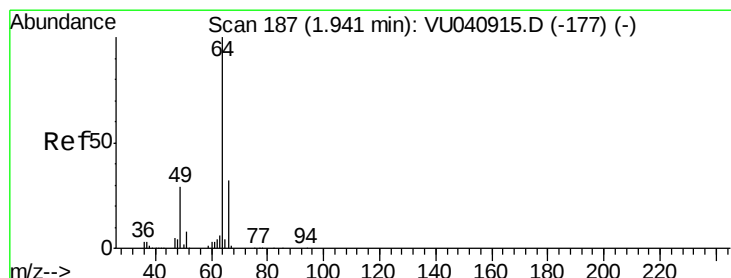
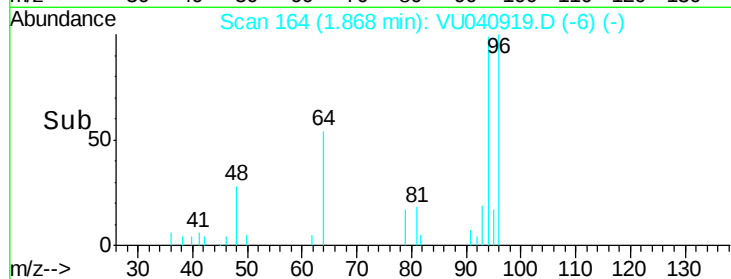
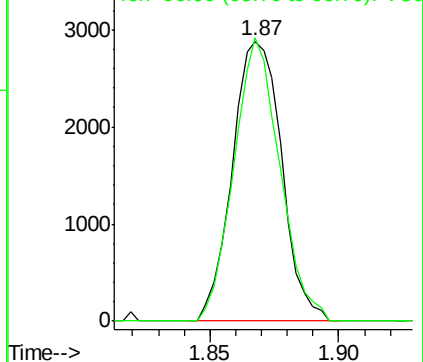
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Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 0.268 ug/l

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040919.D

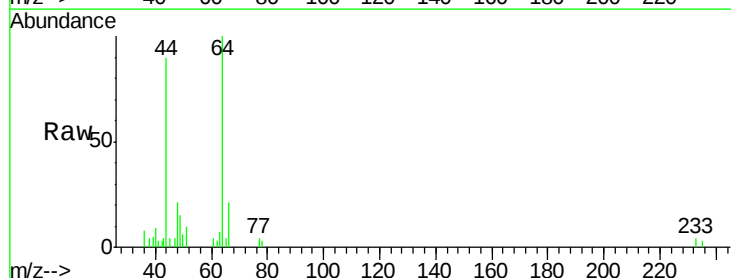
Acq: 22 Oct 2020 23:24

Tgt Ion: 64 Resp: 3849

Ion Ratio Lower Upper

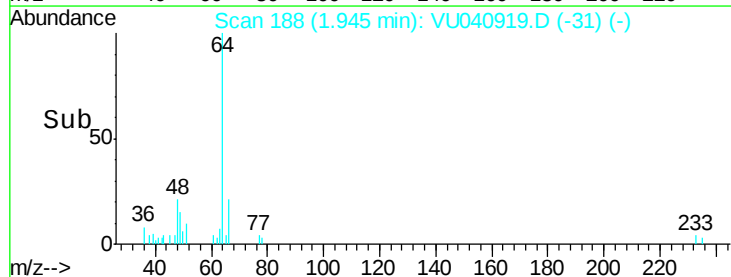
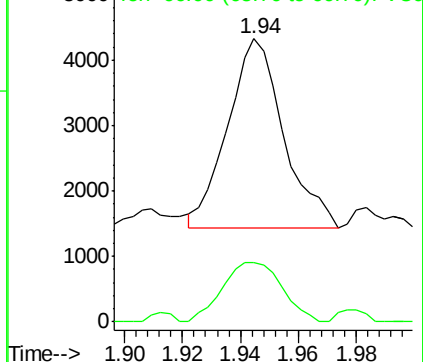
64 100

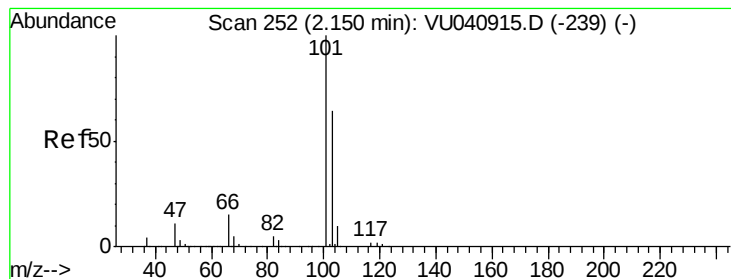
66 31.6 25.4 38.2



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#7

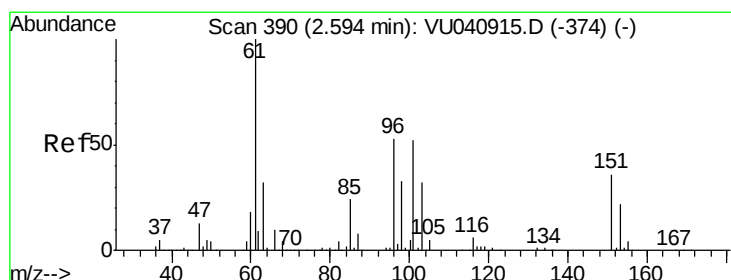
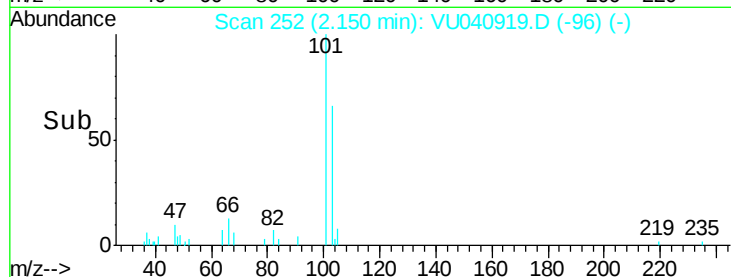
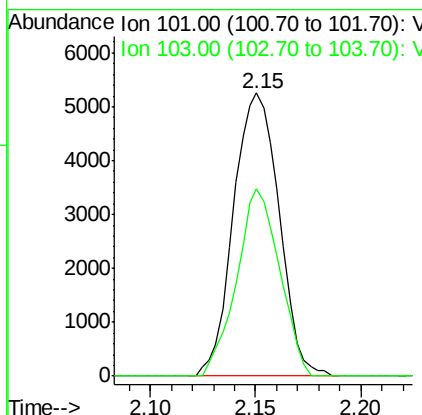
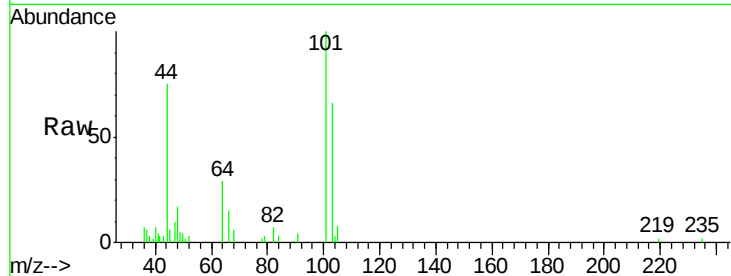
Trichlorofluoromethane
Concen: 0.266 ug/l
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	7883		
103	66.4	51.5	77.3	

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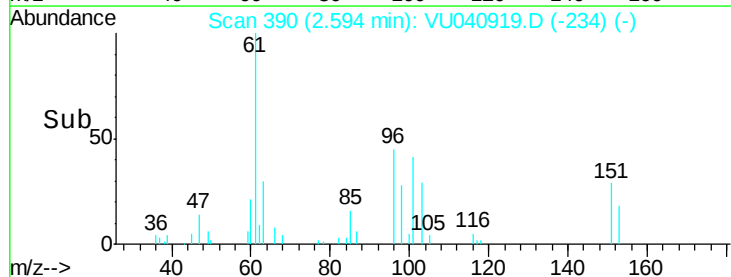
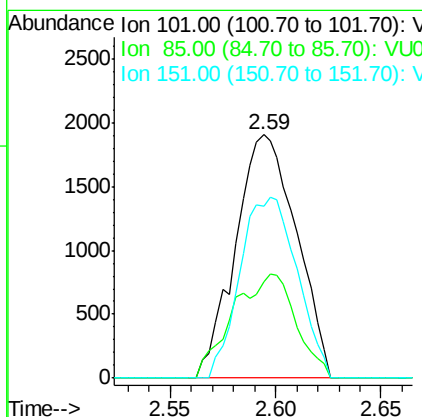
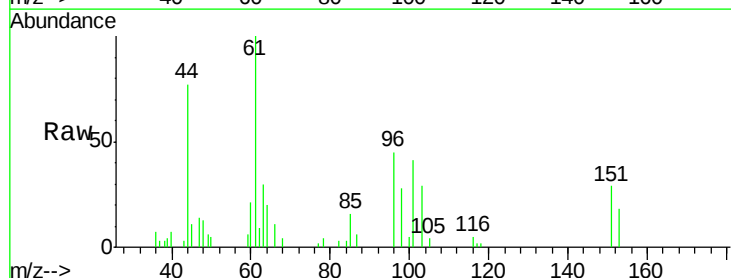
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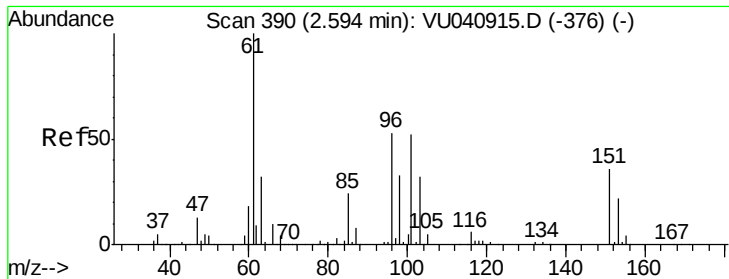


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.232 ug/l
RT: 2.59 min Scan# 390
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	3825		
85	44.2	36.2	54.2	
151	69.6	55.1	82.7	





#9

1,1-Dichloroethene

Concen: 0.250 ug/l

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

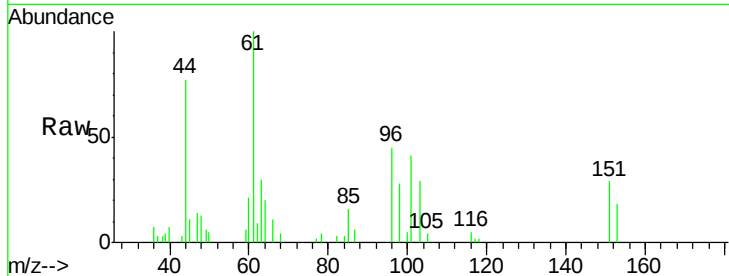
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	96	Resp:	3597
Ion	Ratio	Lower	Upper
96	100		
61	216.8	0.0	561.9
98	61.8	0.0	125.0

Manual Integrations
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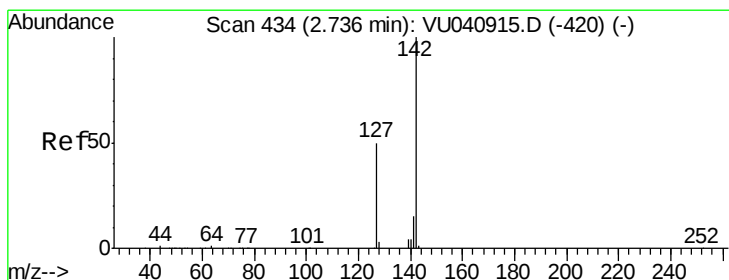
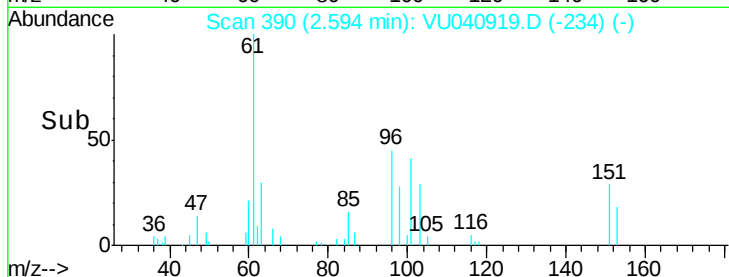
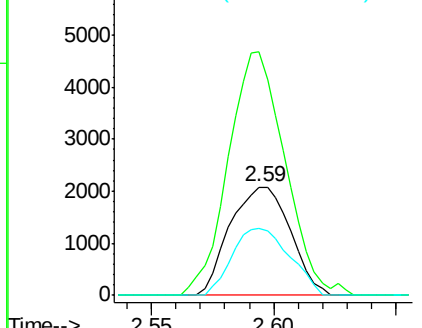
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Abundance Ion 96.00 (95.70 to 96.70): VU040919.D (-234) (-)

Ion 61.00 (60.70 to 61.70): VU040919.D (-234) (-)

Ion 98.00 (97.70 to 98.70): VU040919.D (-234) (-)



#10

Iodomethane

Concen: 0.200 ug/l

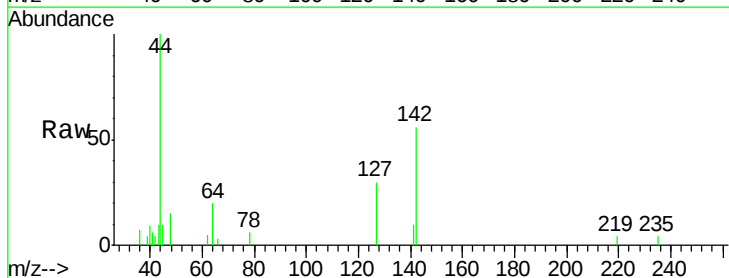
RT: 2.74 min Scan# 435

Delta R.T. 0.00 min

Lab File: VU040919.D

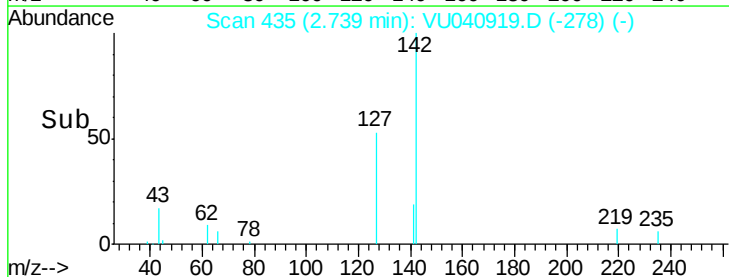
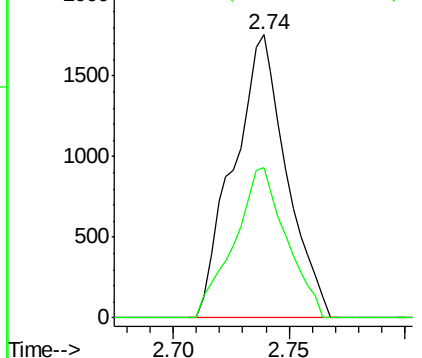
Acq: 22 Oct 2020 23:24

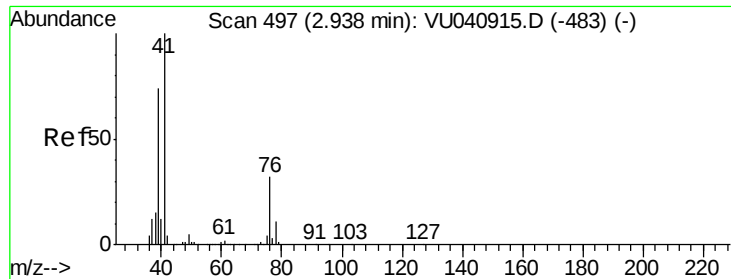
Tgt Ion:	142	Resp:	2794
Ion	Ratio	Lower	Upper
142	100		
127	52.0	40.6	60.8



Abundance Ion 142.00 (141.70 to 142.70): VU040919.D (-278) (-)

Ion 127.00 (126.70 to 127.70): VU040919.D (-278) (-)





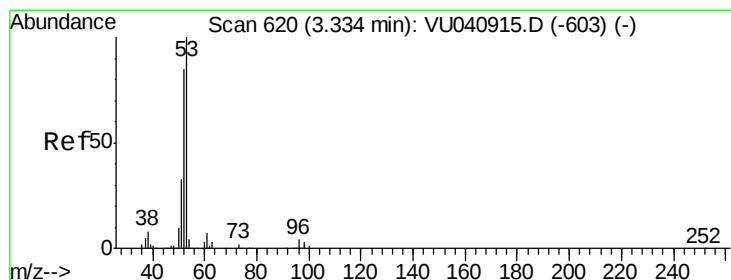
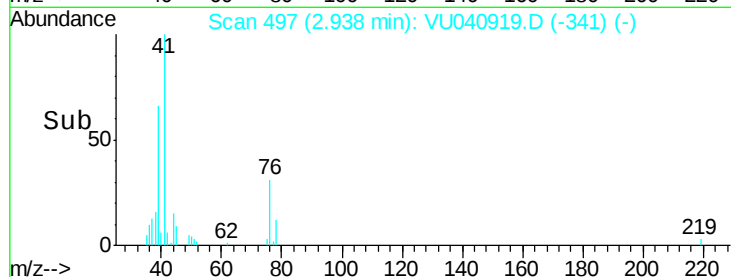
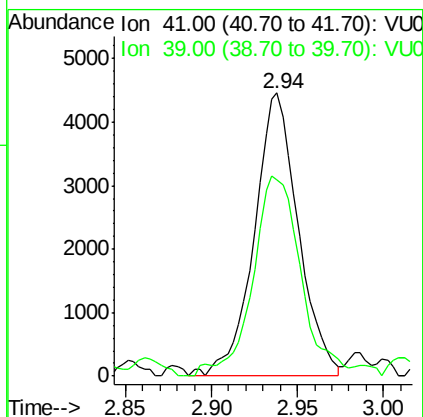
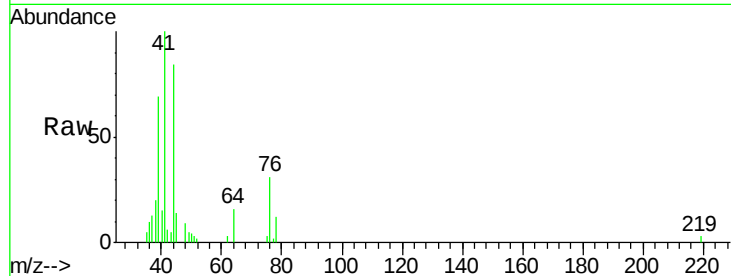
#11
Allvl Chloride
Concen: 0.268 ug/l
RT: 2.94 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion: 41 Resp: 7927
Ion Ratio Lower Upper
41 100
39 68.3 59.0 88.4

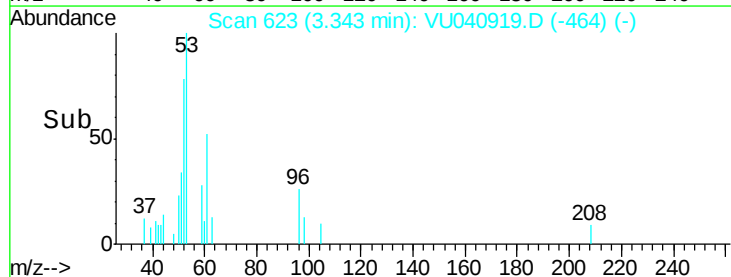
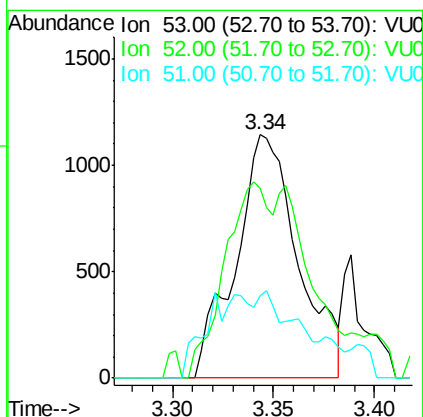
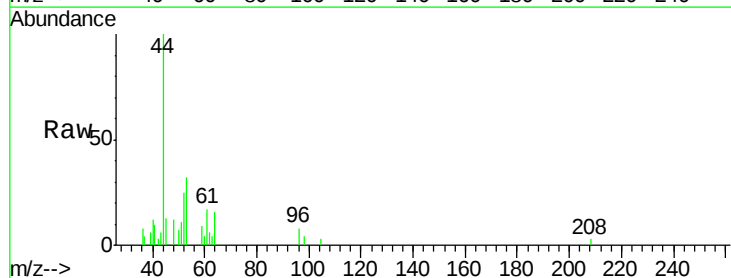
Manual Integrations
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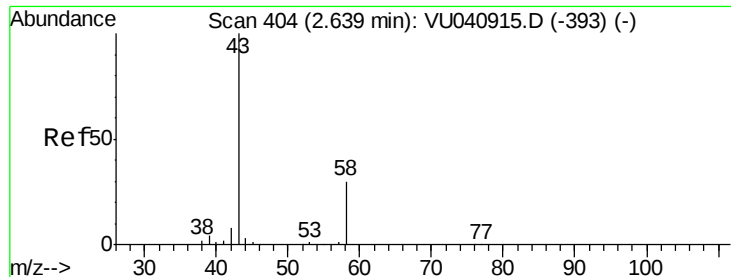
MMDadoda
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#12
Acrylonitrile
Concen: 0.489 ug/l
RT: 3.34 min Scan# 623
Delta R.T. 0.01 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion: 53 Resp: 2474
Ion Ratio Lower Upper
53 100
52 60.0 63.1 94.7#
51 0.0 30.6 46.0#





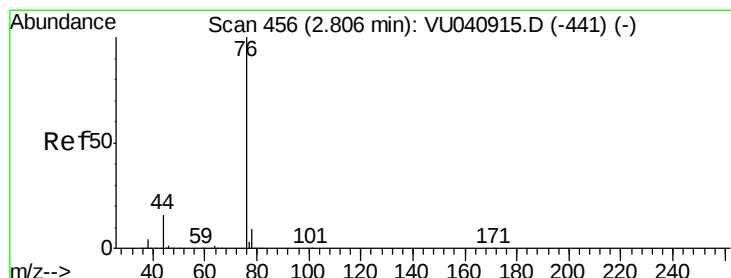
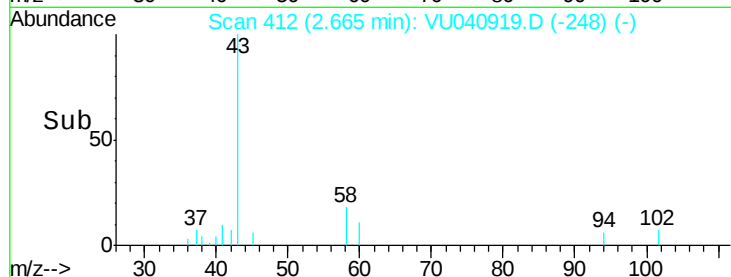
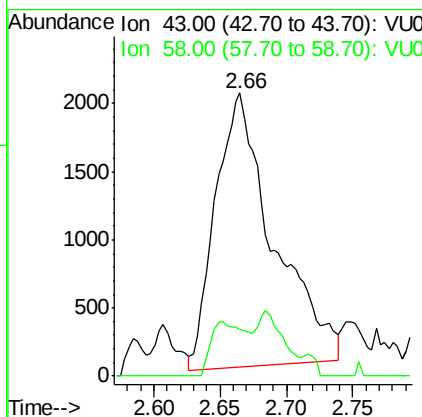
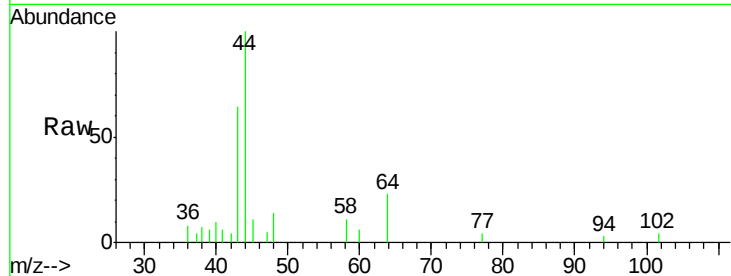
#13
Acetone
Concen: 1.449 ug/l
RT: 2.66 min Scan# 412
Delta R.T. 0.03 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion: 43 Resp: 6139
Ion Ratio Lower Upper
43 100
58 17.8 23.6 35.4#

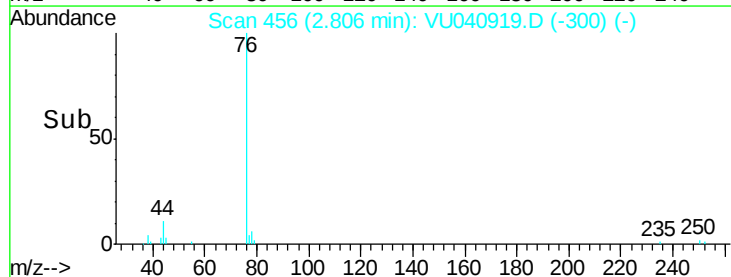
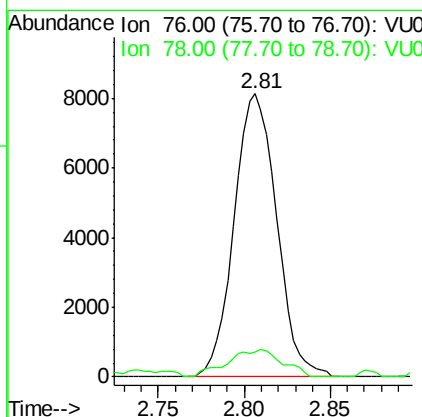
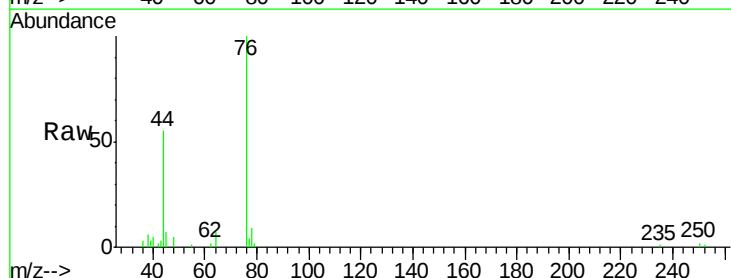
Manual Integrations
APPROVED

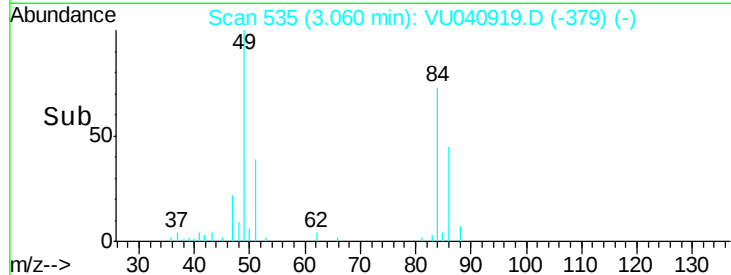
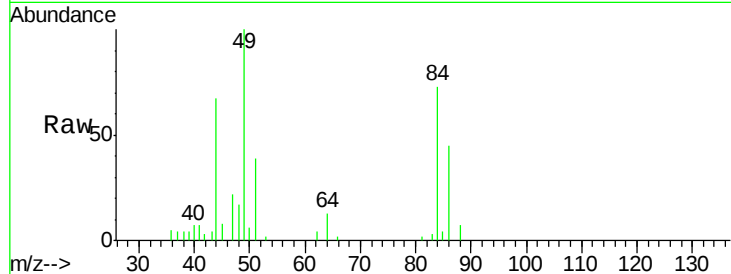
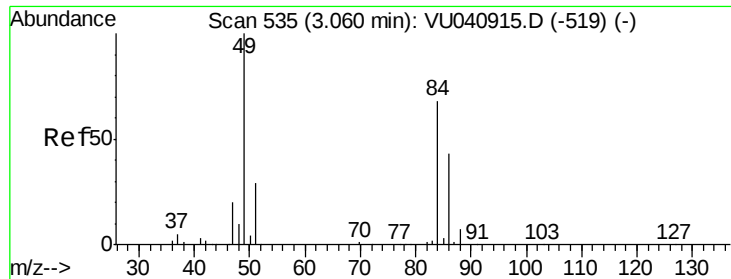
MMDadoda
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#14
Carbon Disulfide
Concen: 0.260 ug/l
RT: 2.81 min Scan# 456
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion: 76 Resp: 14036
Ion Ratio Lower Upper
76 100
78 8.6 7.1 10.7





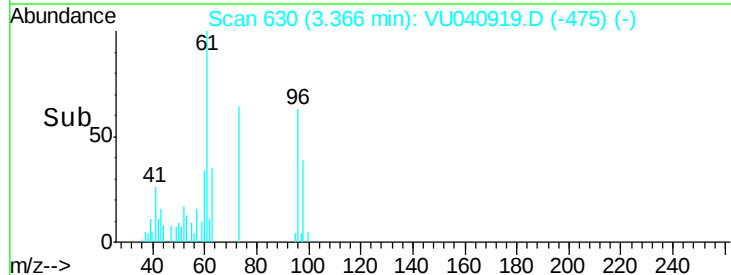
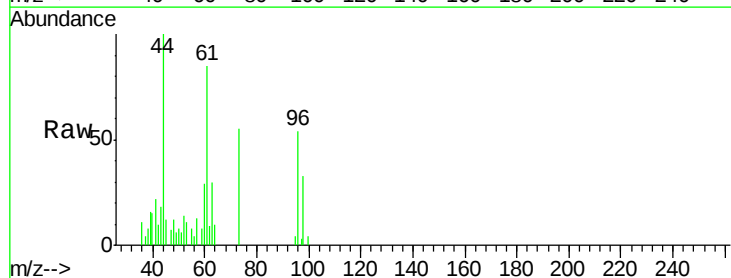
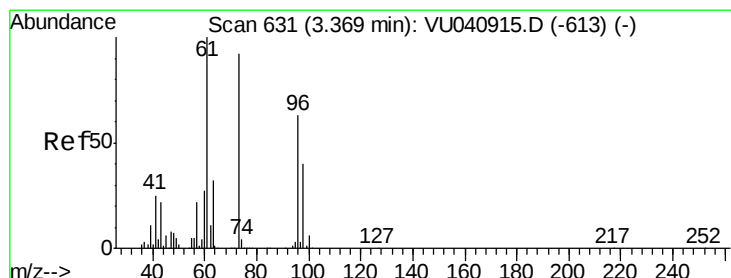
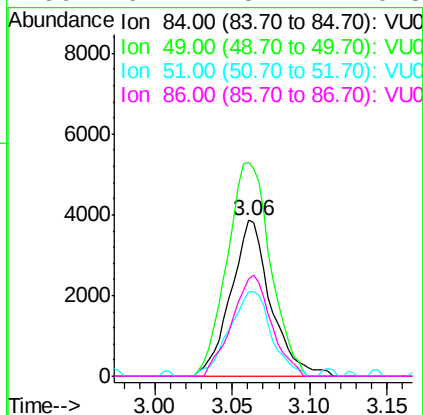
#15
Methvlene Chloride
Concen: 0.371 ug/l
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tot Ion:	84	Resp:	6918
Ion	Ratio	Lower	Upper
84	100		
49	137.0	118.2	177.4
51	53.8	0.0	86.8
86	62.1	51.2	76.8

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

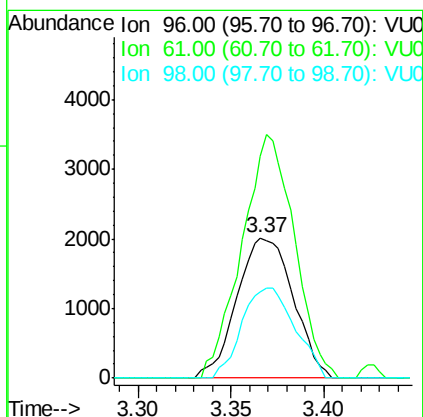
Manual Integrations
APPROVED

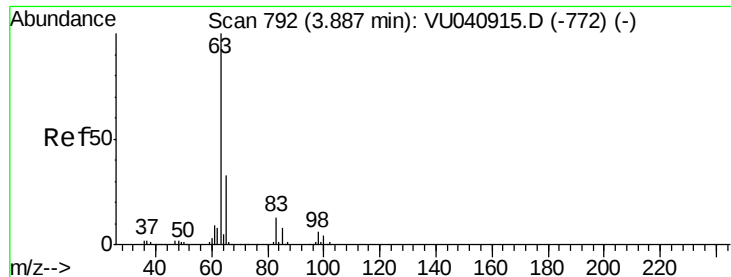
MMDadoda
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#16
trans-1,2-Dichloroethene
Concen: 0.262 ug/l
RT: 3.37 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion:	96	Resp:	4256
Ion	Ratio	Lower	Upper
96	100		
61	157.8	127.0	190.4
98	61.7	51.2	76.8





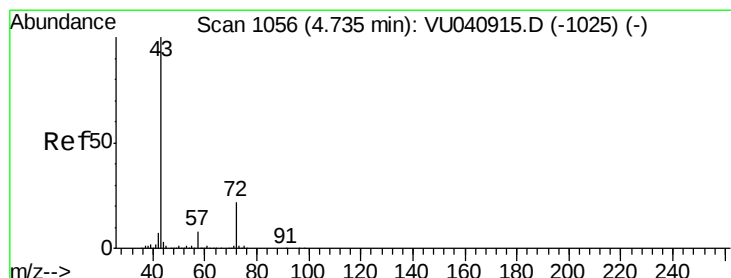
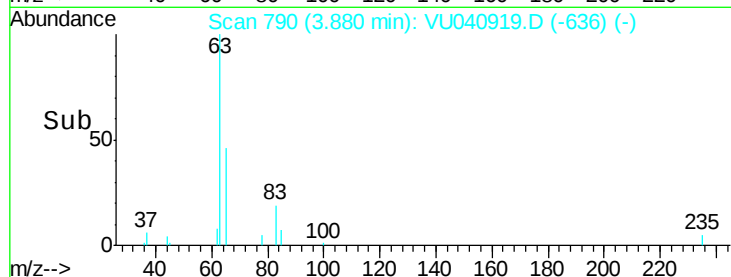
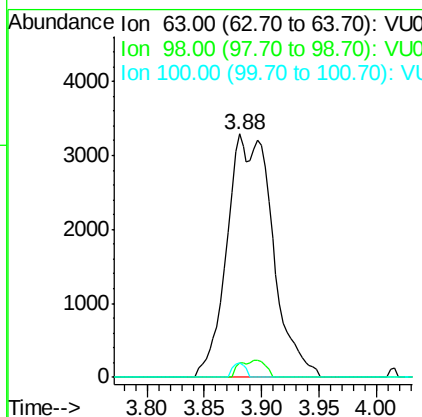
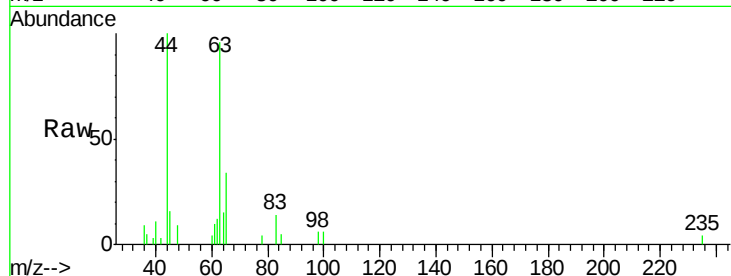
#17
 1,1-Dichloroethane
 Concen: 0.272 ug/l m
 RT: 3.88 min Scan# 790
 Delta R.T. -0.01 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.0	9.2
100	5.8	1.8	5.5#

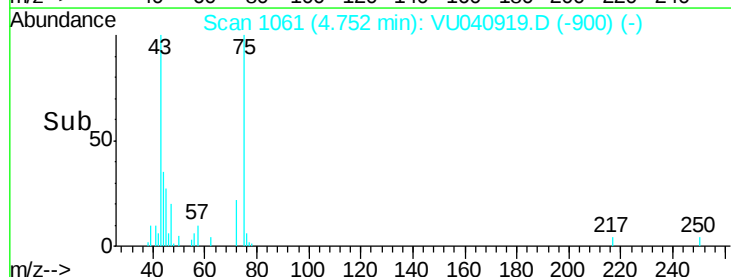
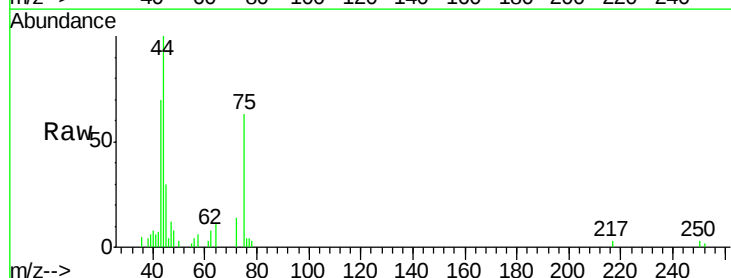
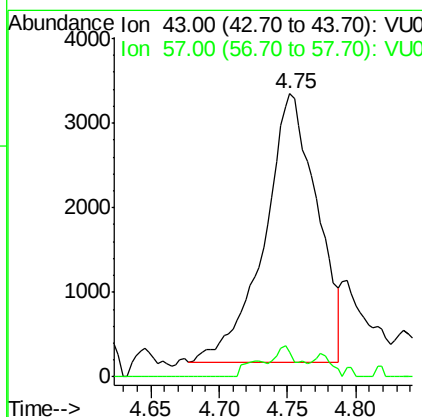
Manual Integrations
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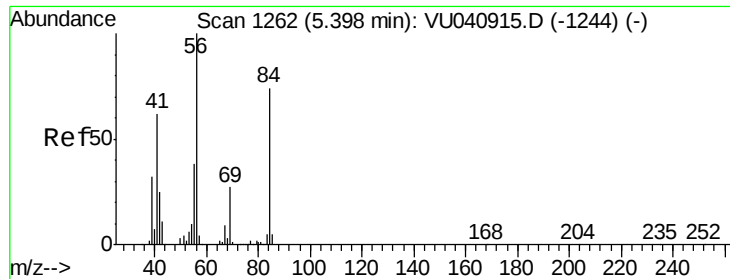
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#18
 2-Butanone
 Concen: 1.240 ug/l
 RT: 4.75 min Scan# 1061
 Delta R.T. 0.02 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.2	0.0	15.2





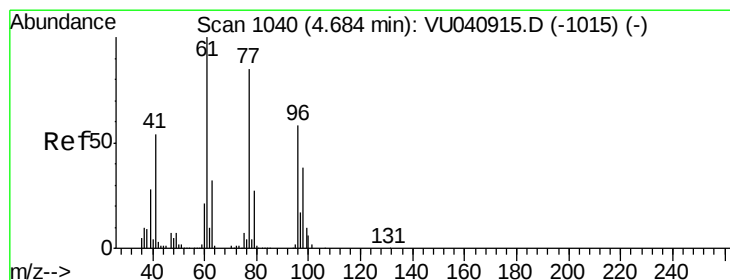
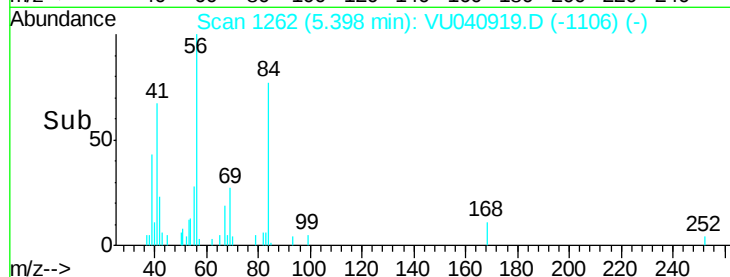
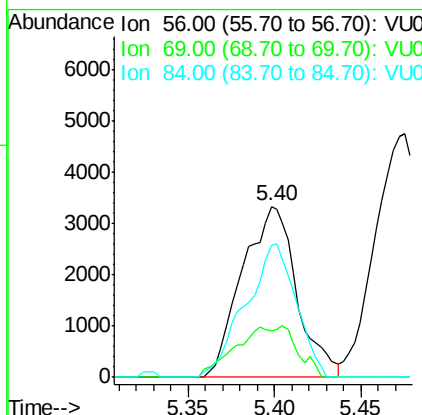
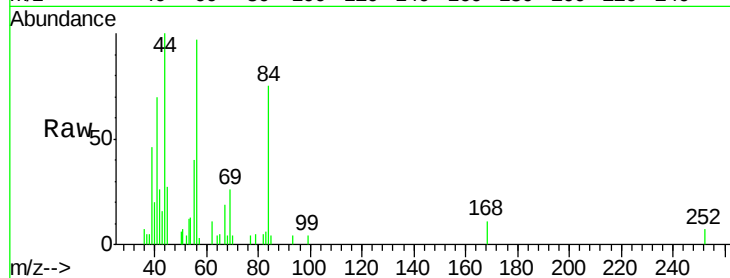
#19
Cyclohexane
Concen: 0.234 ug/l m
RT: 5.40 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	20.5	22.2	33.2#
84	72.3	60.1	90.1

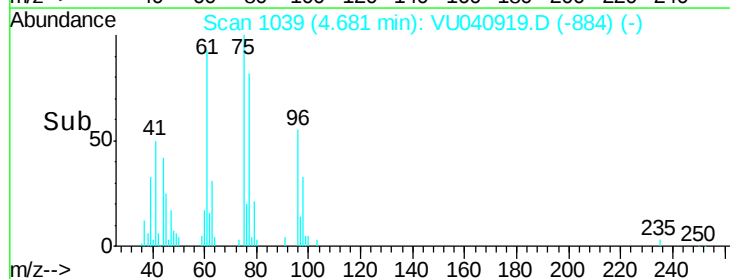
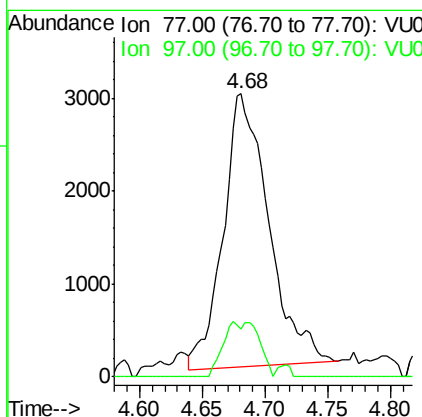
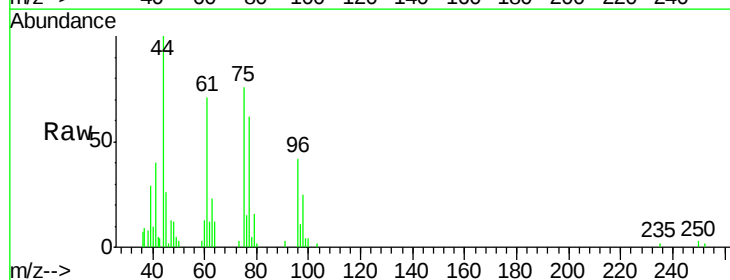
Manual Integrations
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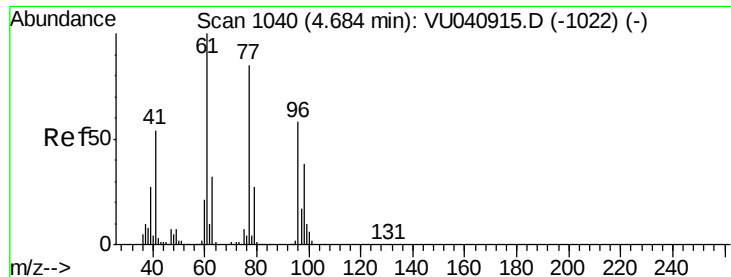
MMDadoda
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#21
2,2-Dichloropropane
Concen: 0.266 ug/l
RT: 4.68 min Scan# 1039
Delta R.T. -0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Lower	Upper
77	100		
97	8.3	16.0	24.0#





#22

cis-1,2-Dichloroethene

Concen: 0.283 ug/l

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

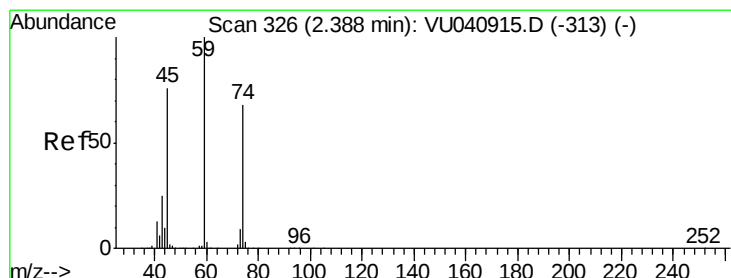
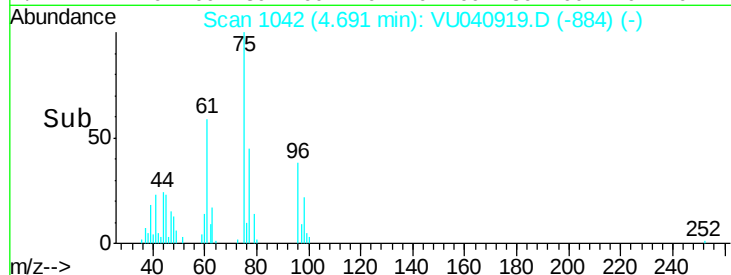
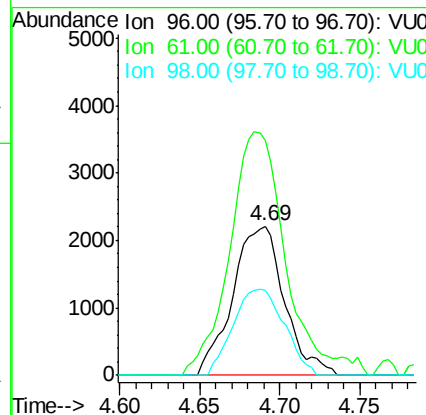
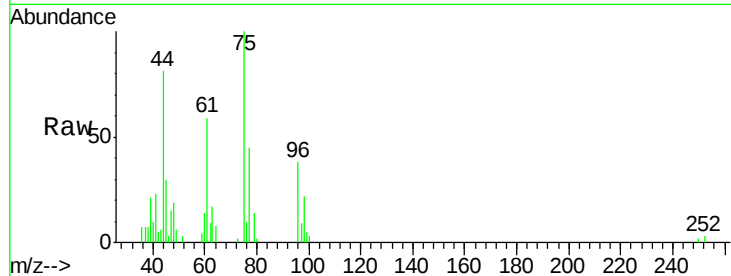
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:	96	Resp:	4900
Ion	Ratio	Lower	Upper
96	100		
61	177.3	0.0	434.5
98	57.0	32.6	97.8

Manual Integrations
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#23

Diethyl Ether

Concen: 0.261 ug/l

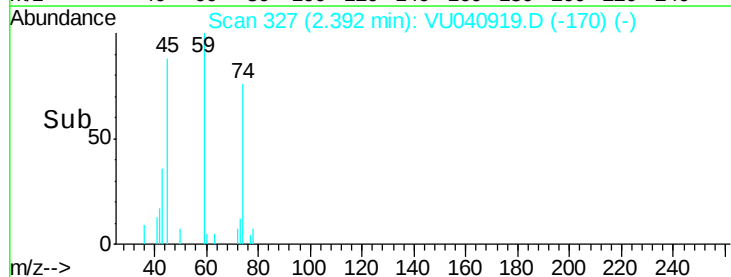
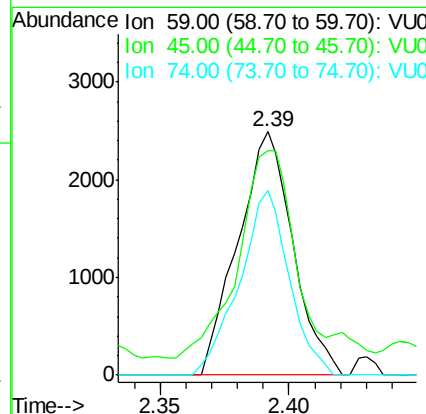
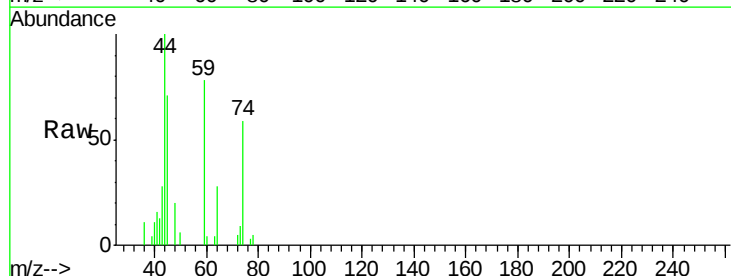
RT: 2.39 min Scan# 327

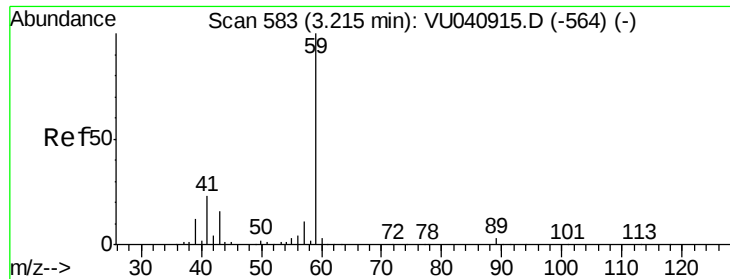
Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Tgt Ion:	59	Resp:	3707
Ion	Ratio	Lower	Upper
59	100		
45	90.6	61.4	92.2
74	68.6	55.0	82.4





#24

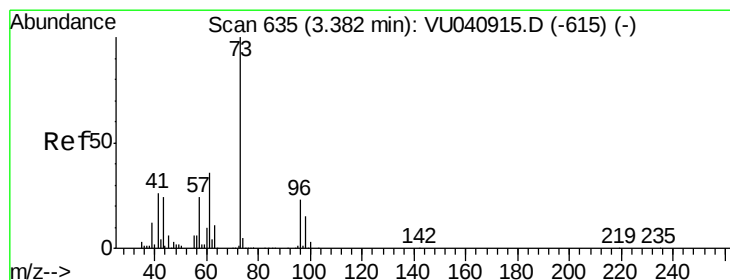
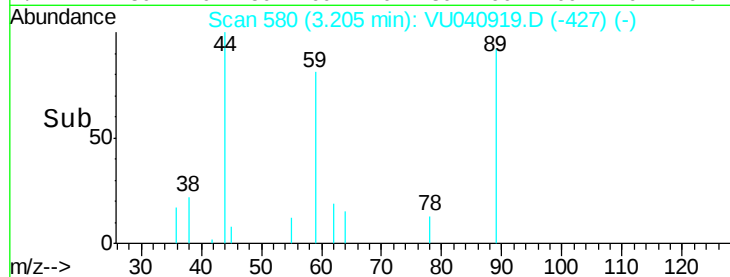
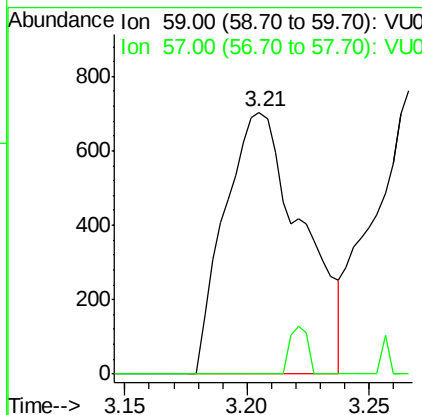
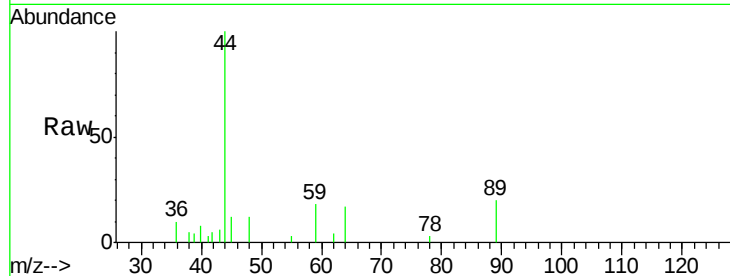
tert-Butyl Alcohol
 Concen: 0.981 ug/l
 RT: 3.21 min Scan# 580
 Delta R.T. -0.01 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.4	12.6#

Manual Integrations
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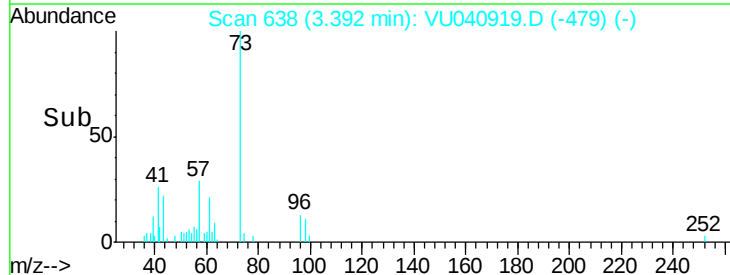
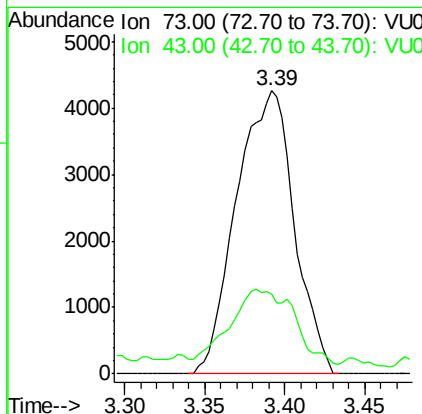
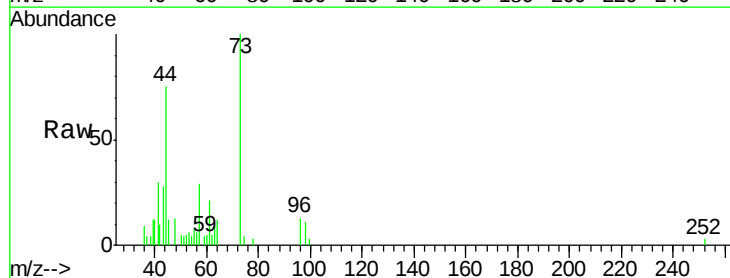
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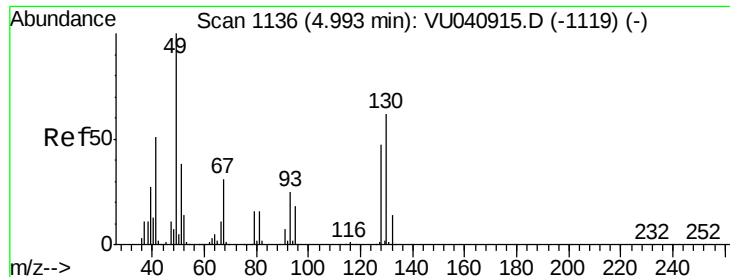


#25

Methyl tert-Butyl Ether
 Concen: 0.238 ug/l
 RT: 3.39 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Lower	Upper
73	100		
43	29.5	19.0	28.6#





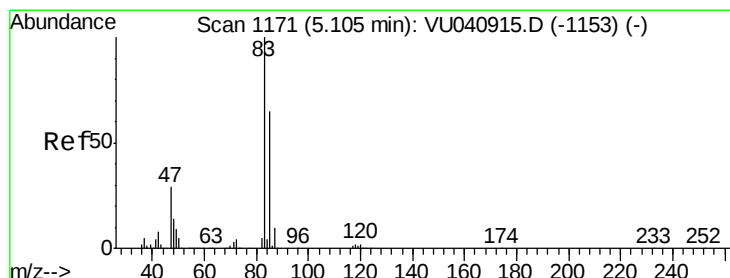
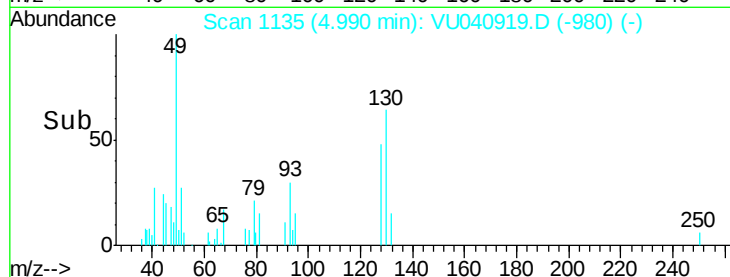
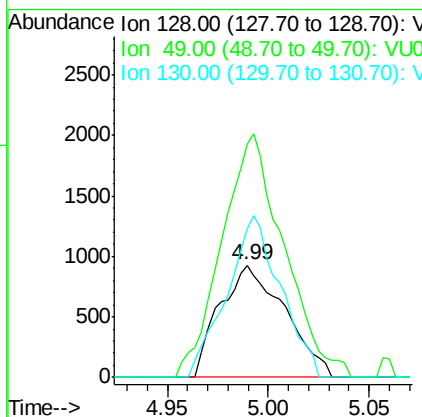
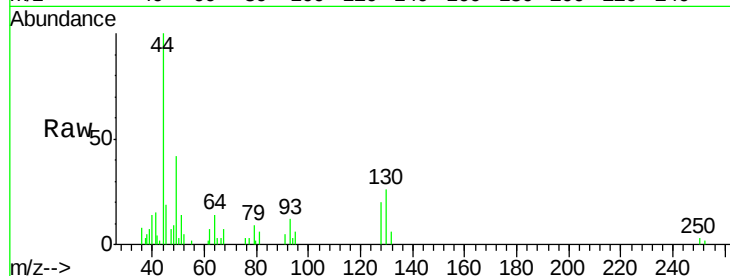
#26
Bromochloromethane
Concen: 0.276 ug/l
RT: 4.99 min Scan# 1135
Delta R.T. -0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion:128 Resp: 2078
Ion Ratio Lower Upper
128 100
49 208.0 0.0 426.4
130 118.8 106.2 159.4

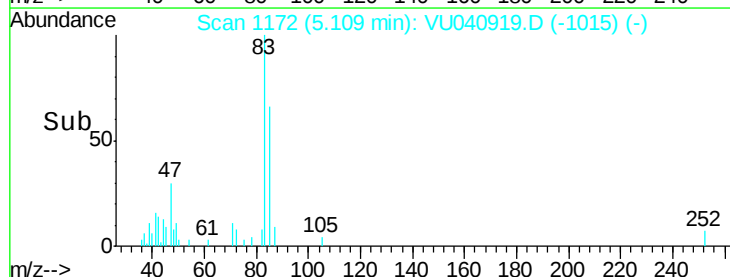
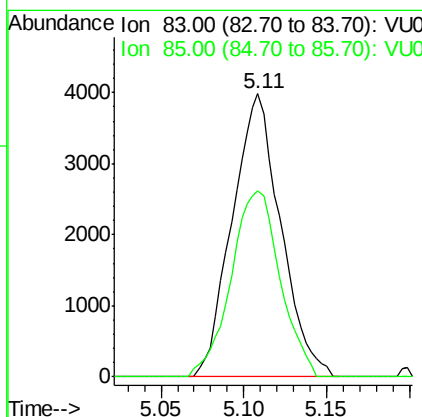
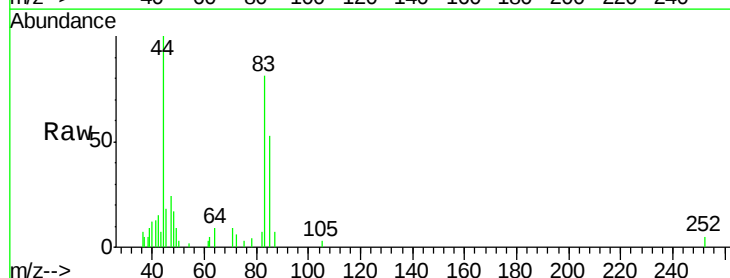
Manual Integrations
APPROVED

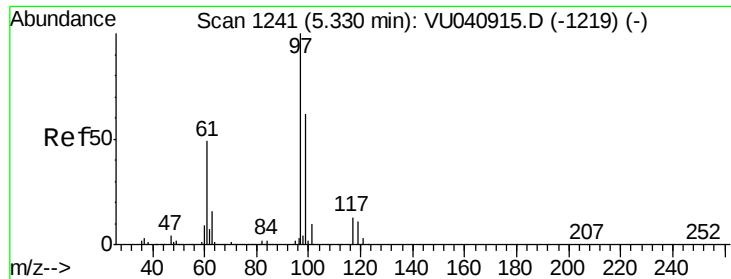
MMDadoda
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#27
Chloroform
Concen: 0.255 ug/l
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion: 83 Resp: 8090
Ion Ratio Lower Upper
83 100
85 65.8 0.0 129.0





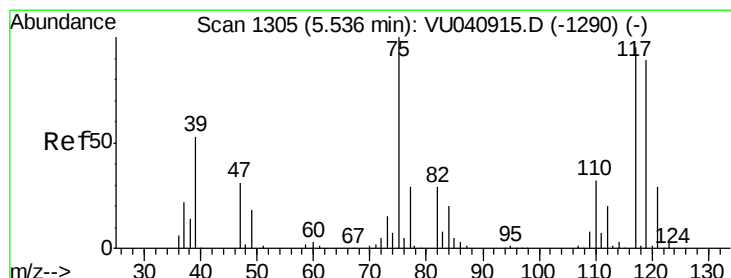
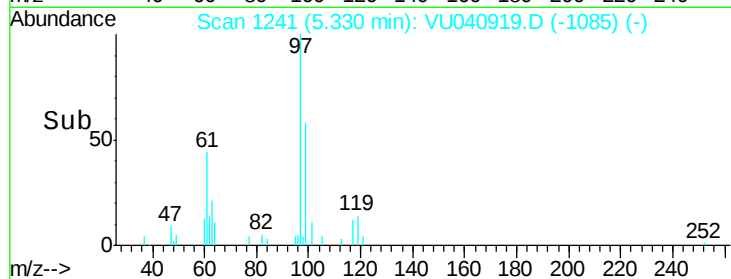
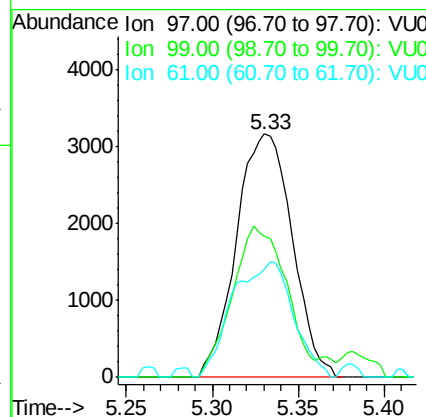
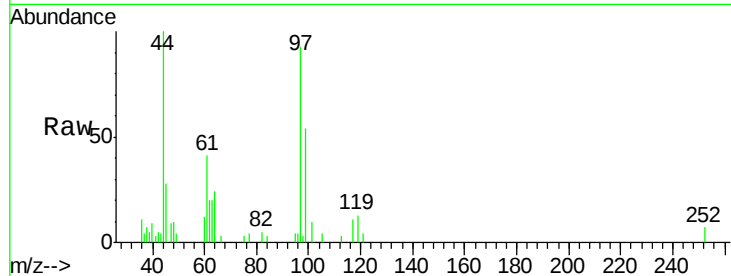
#28
 1,1,1-Trichloroethane
 Concen: 0.261 ug/l
 RT: 5.33 min Scan# 1241
 Delta R.T. 0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
97	100	7153		
99	60.1		31.4	94.3
61	51.6		24.7	74.1

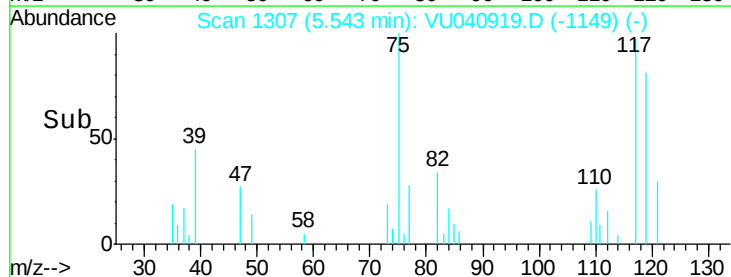
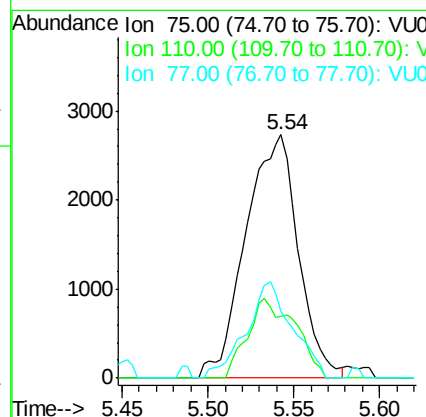
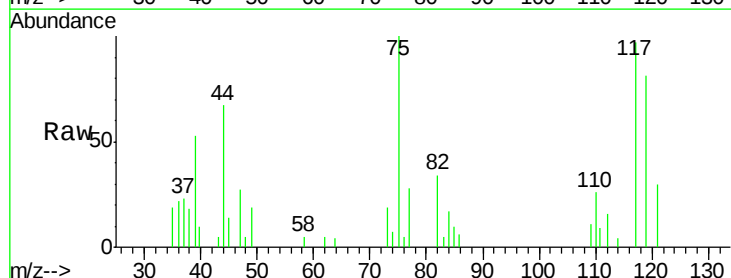
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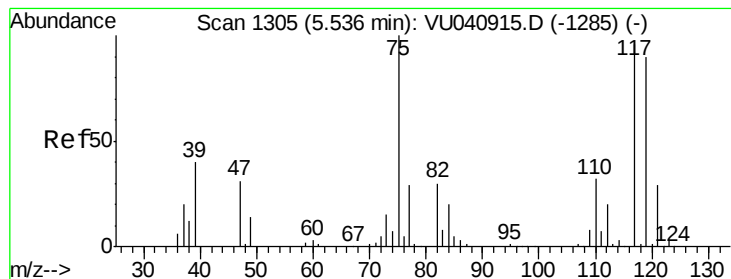
MMDadoda
 10/26/2020 4:15:20 PM



#29
 1,1-Dichloropropene
 Concen: 0.243 ug/l
 RT: 5.54 min Scan# 1307
 Delta R.T. 0.01 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	5821		
110	29.7		15.9	47.6
77	34.6		24.2	36.2





#30

Carbon Tetrachloride

Concen: 0.231 ug/l

RT: 5.54 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

ClientSampleId :

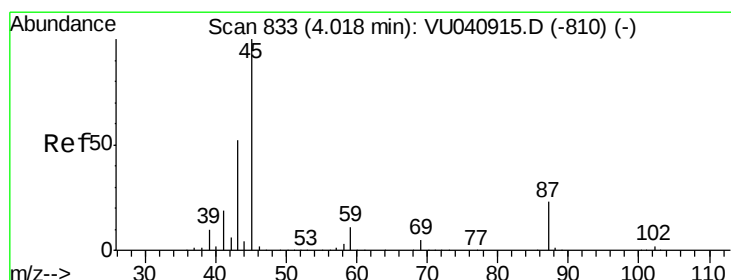
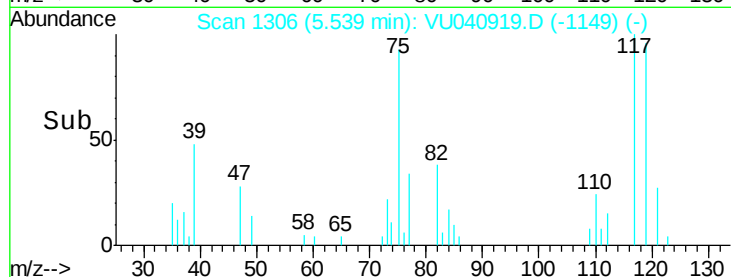
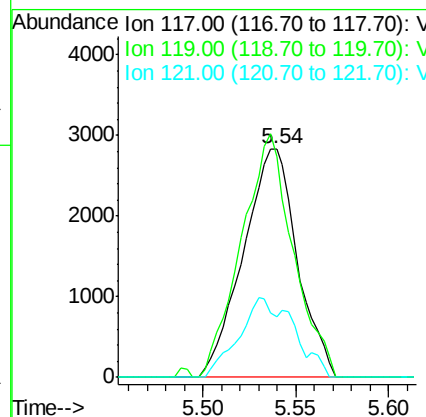
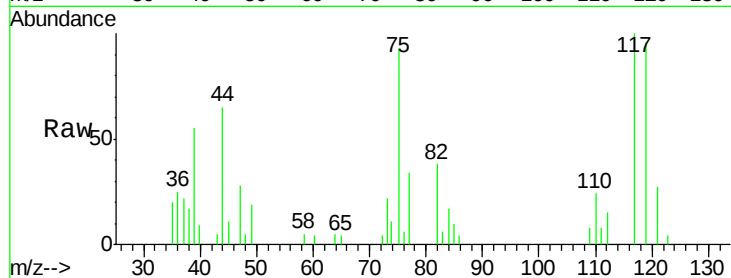
LOD-MDL-WATER-01-QT4-2020

Tot Ion:117 Resp: 5734

Ion	Ratio	Lower	Upper
117	100		
119	96.5	74.9	112.3
121	26.6	24.1	36.1

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#31

Isopropyl Ether

Concen: 0.267 ug/l

RT: 4.02 min Scan# 835

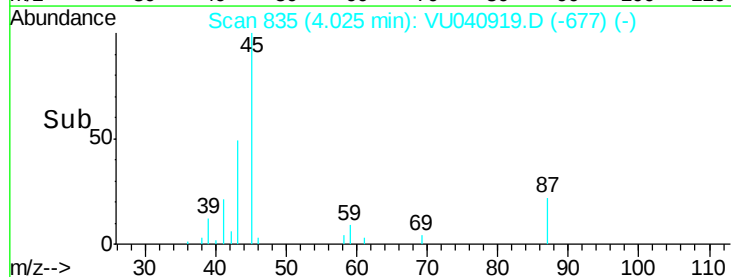
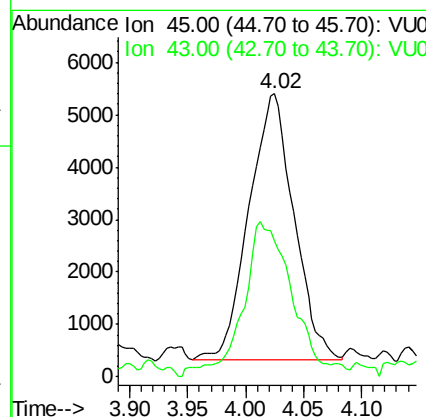
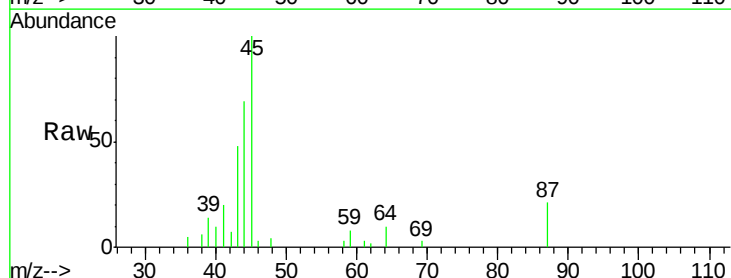
Delta R.T. 0.01 min

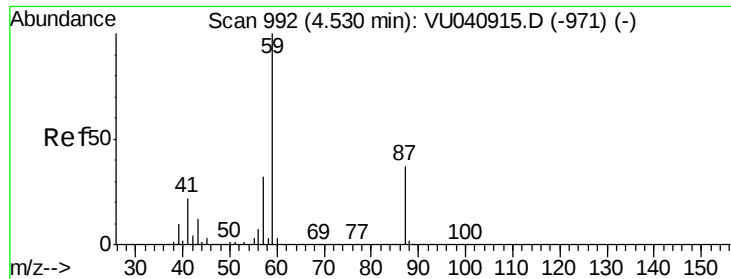
Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Tgt Ion: 45 Resp: 13722

Ion	Ratio	Lower	Upper
45	100		
43	62.9	26.8	80.3





#32

Ethyl-tert-butyl ether

Concen: 0.233 ug/l

RT: 4.53 min Scan# 992

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 59 Resp: 10533

Ion Ratio Lower Upper

59 100

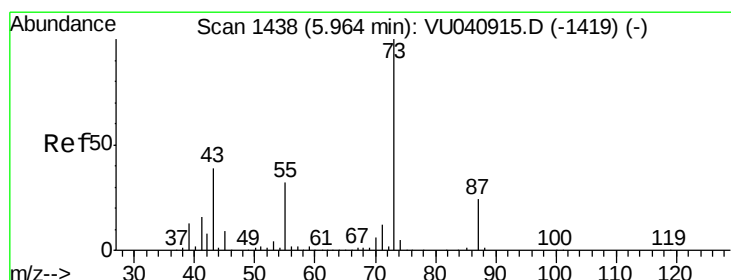
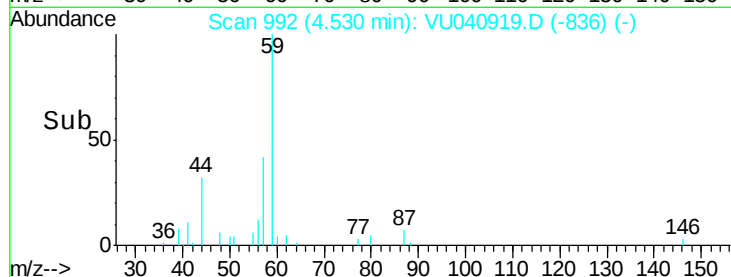
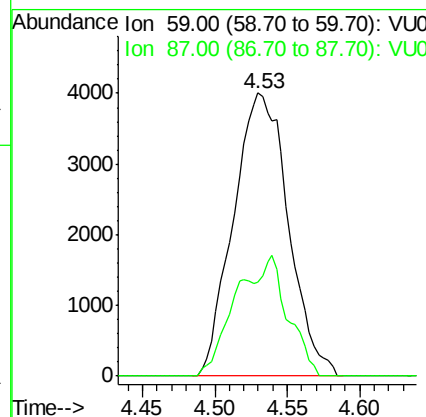
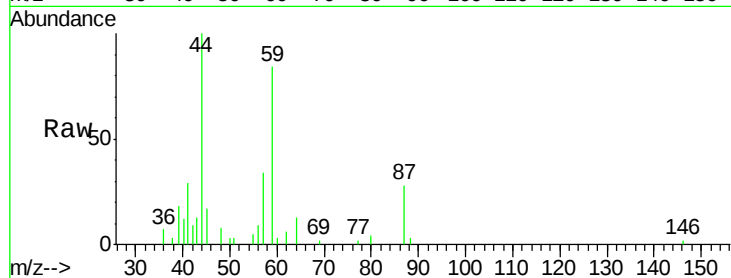
87 20.2 30.6 46.0#

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#33

Tert-Amyl methyl ether

Concen: 0.213 ug/l

RT: 5.96 min Scan# 1438

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

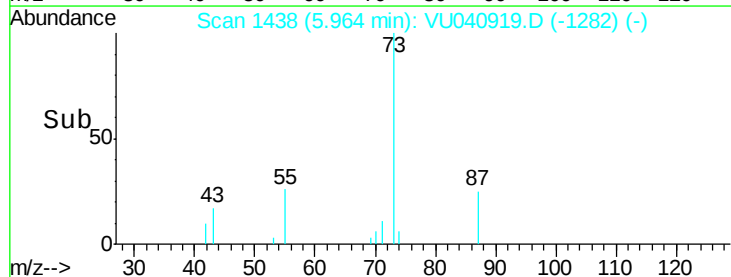
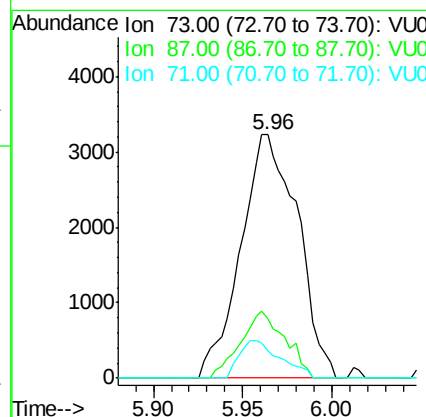
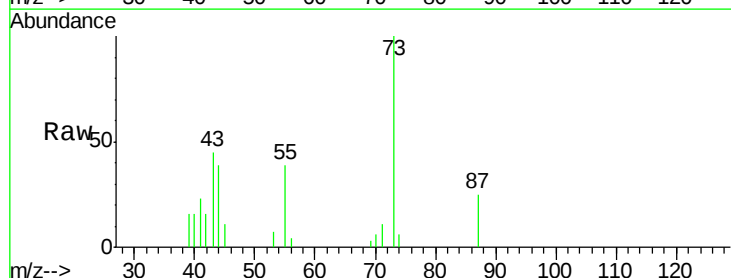
Tgt Ion: 73 Resp: 7176

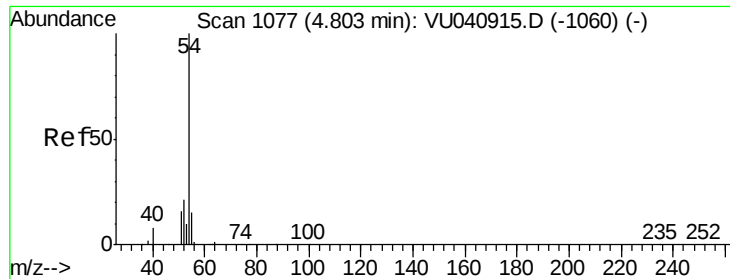
Ion Ratio Lower Upper

73 100

87 21.5 19.0 28.4

71 11.1 9.7 14.5





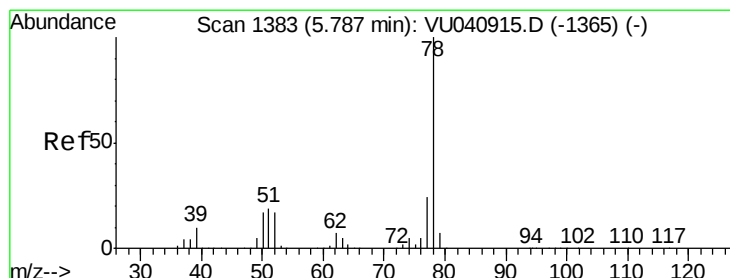
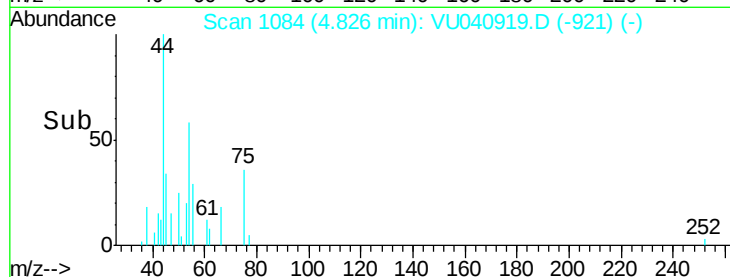
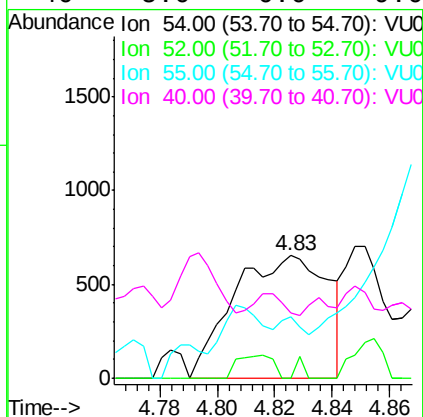
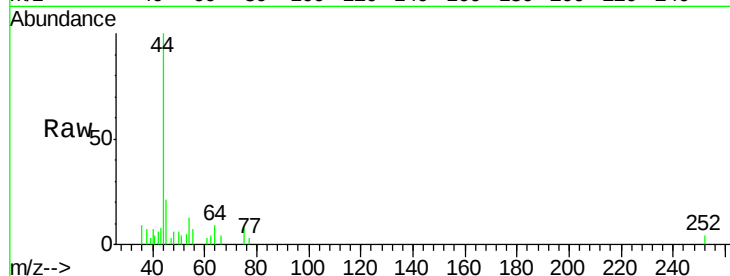
#34
 Propionitrile
 Concen: 0.794 ug/l m
 RT: 4.83 min Scan# 1084
 Delta R.T. 0.02 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion:	54	Resp:	1494
Ion Ratio	Lower	Upper	
54	100		
52	7.2	15.5	23.3#
55	15.5	12.5	18.7
40	5.0	6.0	9.0#

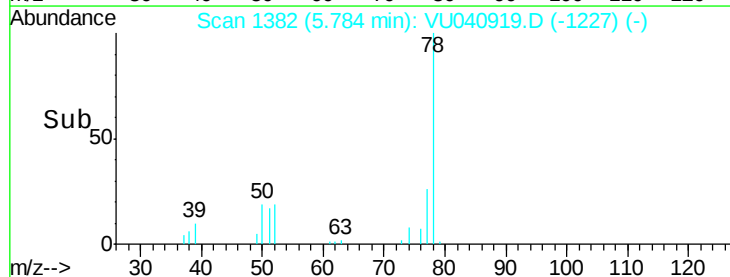
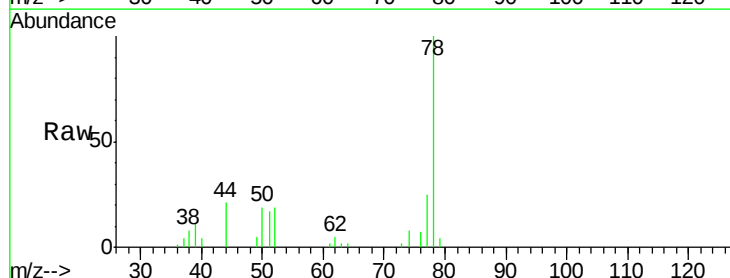
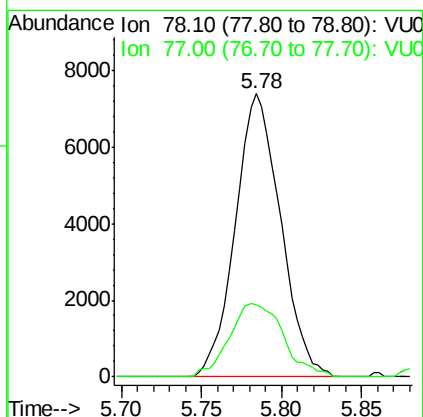
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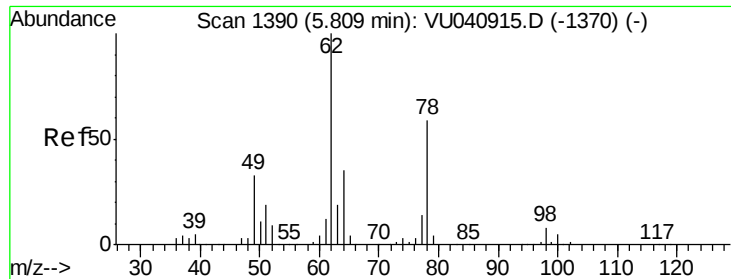
MMDadoda
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#35
 Benzene
 Concen: 0.215 ug/l
 RT: 5.78 min Scan# 1382
 Delta R.T. -0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion:	78	Resp:	14271
Ion Ratio	Lower	Upper	
78	100		
77	25.4	19.4	29.2





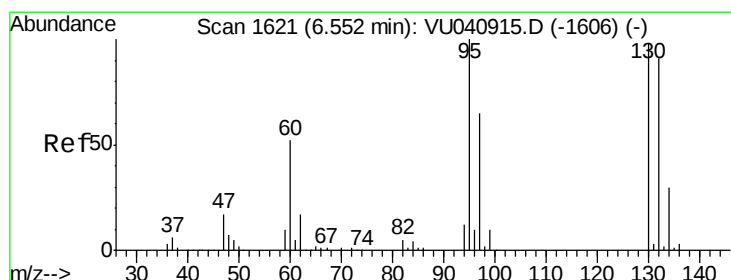
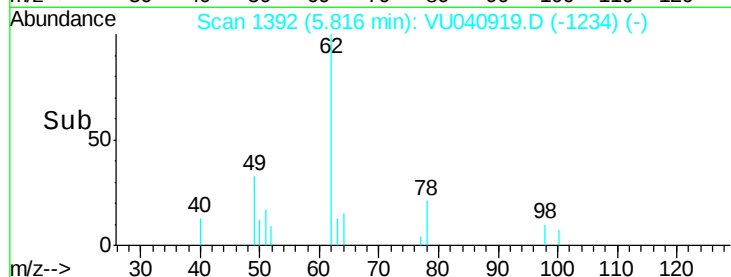
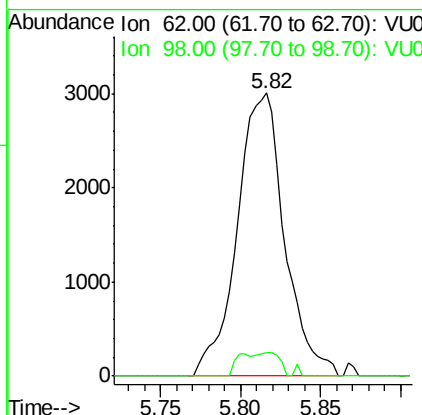
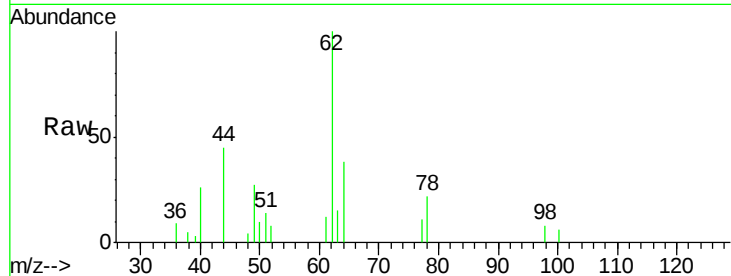
#36
 1,2-Dichloroethane
 Concen: 0.247 ug/l
 RT: 5.82 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion: 62 Resp: 6094
 Ion Ratio Lower Upper
 62 100
 98 2.7 6.7 10.1#

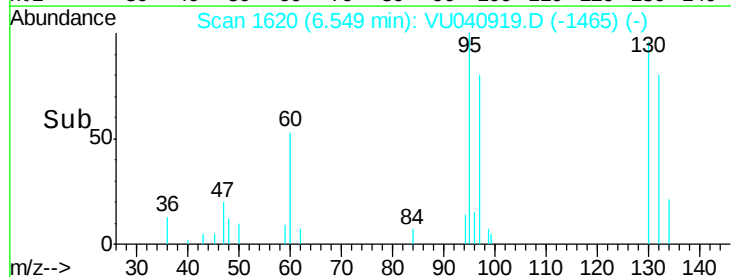
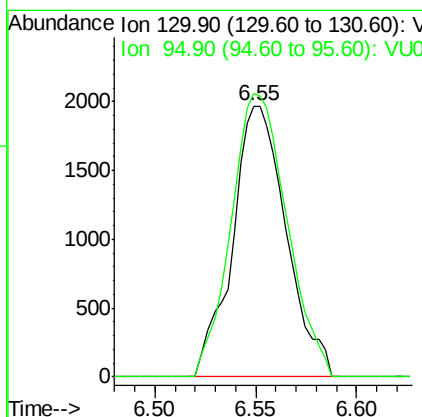
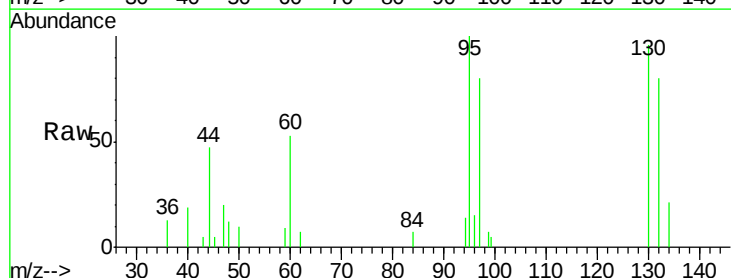
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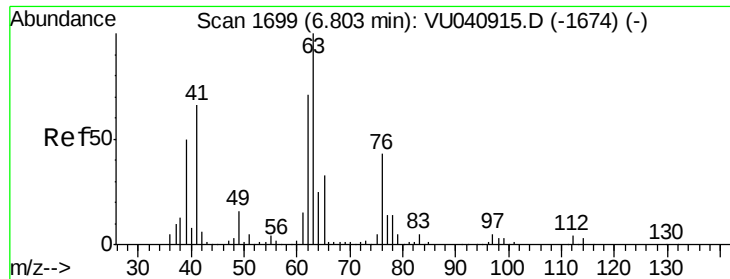
MMDadoda
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#37
 Trichloroethene
 Concen: 0.233 ug/l
 RT: 6.55 min Scan# 1620
 Delta R.T. -0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion:130 Resp: 3659
 Ion Ratio Lower Upper
 130 100
 95 104.6 81.9 122.9





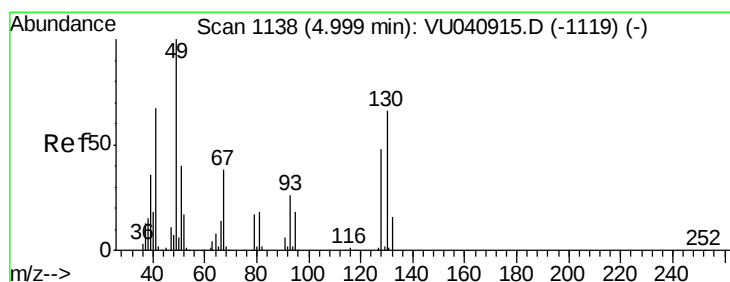
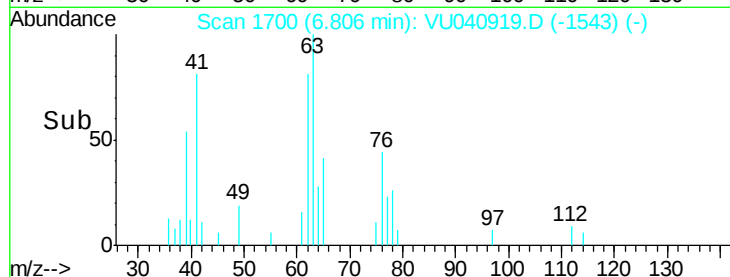
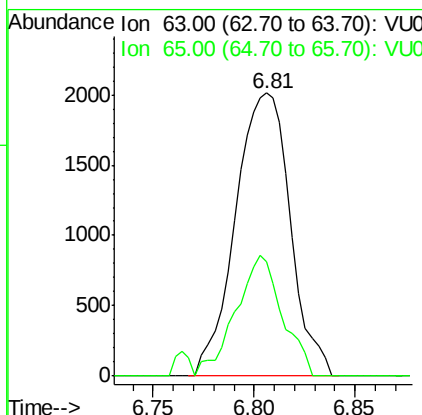
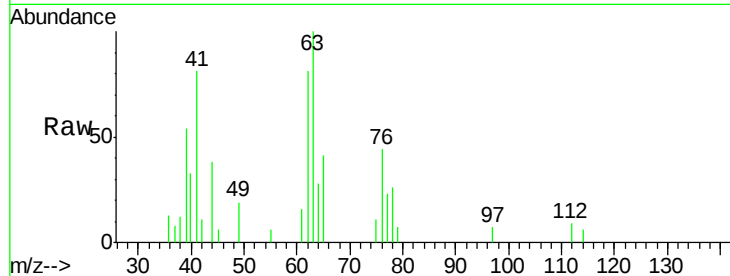
#38
 1,2-Dichloropropane
 Concen: 0.203 ug/l
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion: 63 Resp: 3823
 Ion Ratio Lower Upper
 63 100
 65 40.6 26.2 39.2#

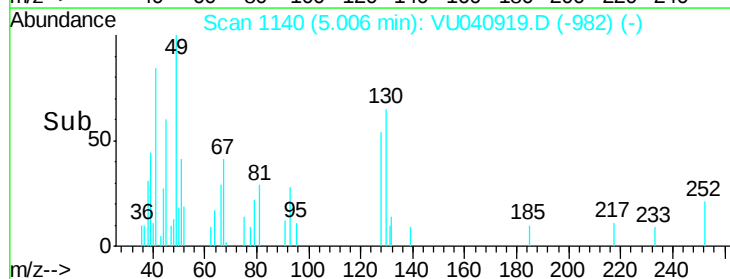
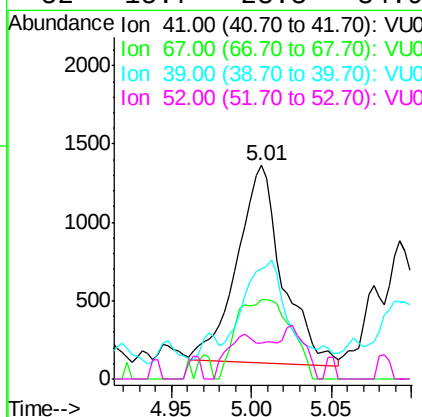
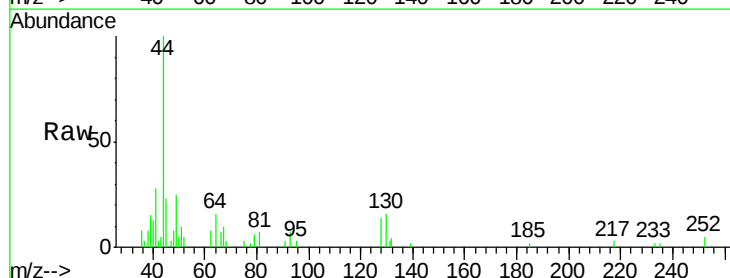
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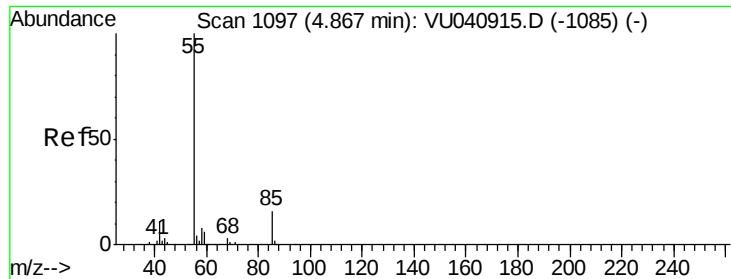
MMDadoda
 10/26/2020 4:15:20 PM



#39
 Methacrylonitrile
 Concen: 0.280 ug/l
 RT: 5.01 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion: 41 Resp: 2467
 Ion Ratio Lower Upper
 41 100
 67 48.0 48.7 73.1#
 39 35.8 44.6 67.0#
 52 15.7 23.3 34.9#





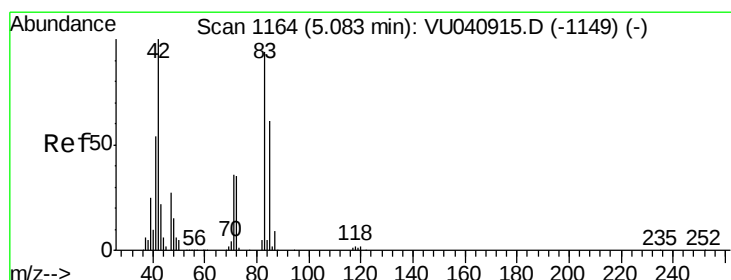
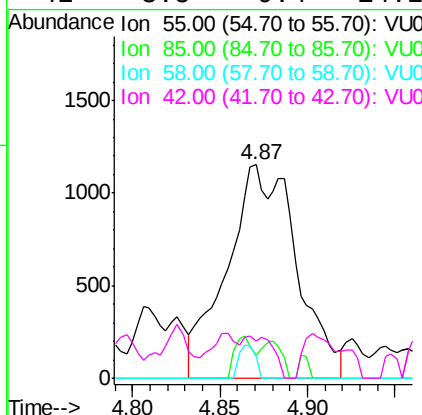
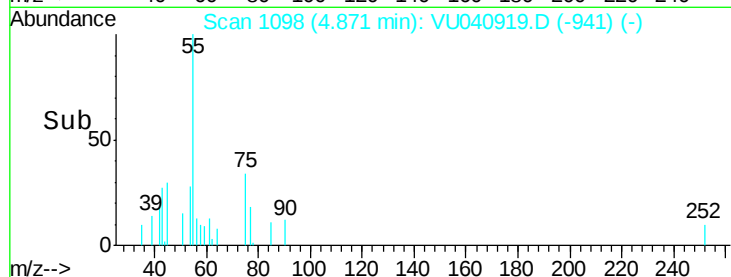
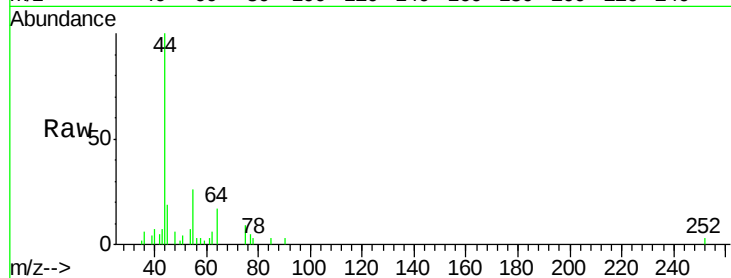
#40
Methvl acrvlate
Concen: 0.264 ug/l m
RT: 4.87 min Scan# 1098
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion:	55	Resp:	3194
Ion Ratio	Lower	Upper	
55	100		
85	5.4	12.2	18.2#
58	3.7	6.8	10.2#
42	3.5	9.4	14.2#

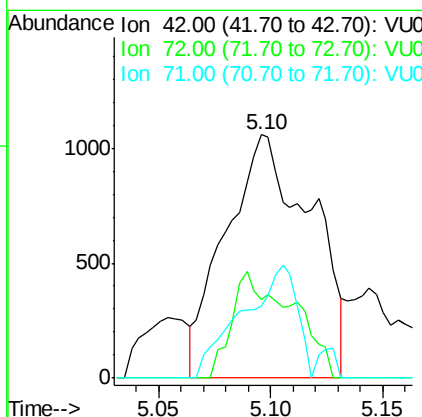
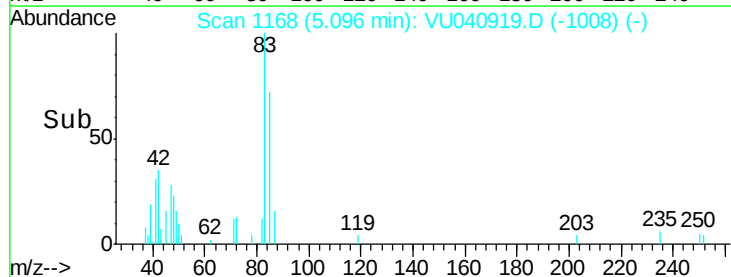
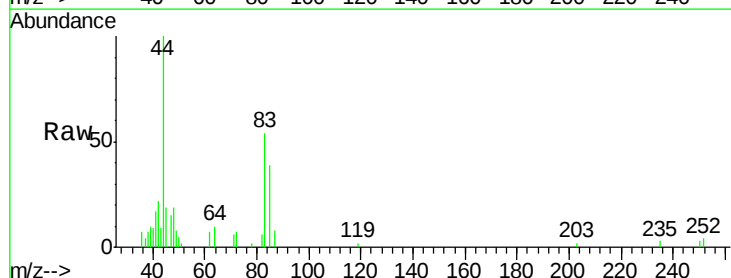
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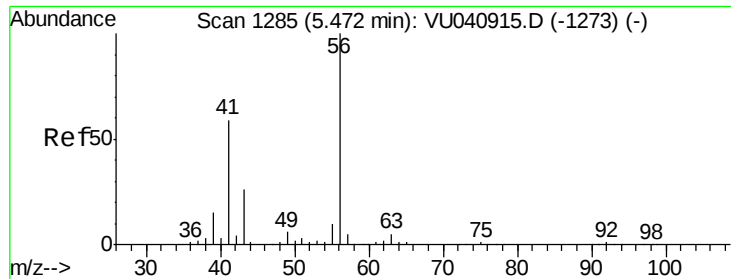
MMDadoda
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#41
Tetrahydrofuran
Concen: 0.620 ug/l m
RT: 5.10 min Scan# 1168
Delta R.T. 0.01 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion:	42	Resp:	2813
Ion Ratio	Lower	Upper	
42	100		
72	30.9	30.1	45.1
71	29.5	27.9	41.9





#42

1-Chlorobutane

Concen: 0.255 ug/l

RT: 5.48 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion: 56 Resp: 9243

Ion Ratio Lower Upper

56 100

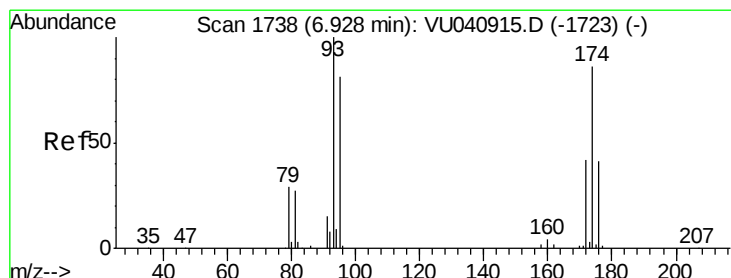
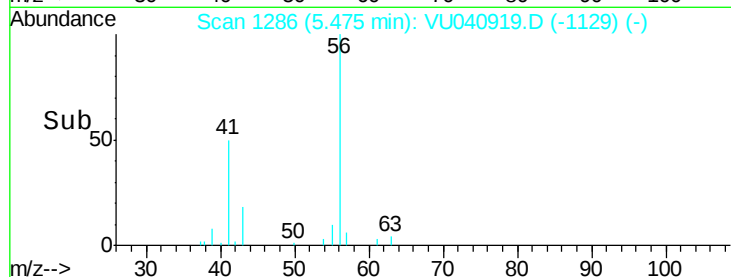
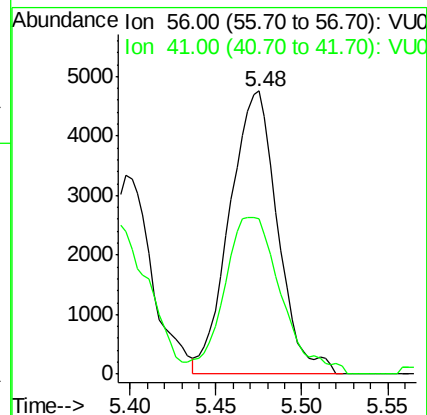
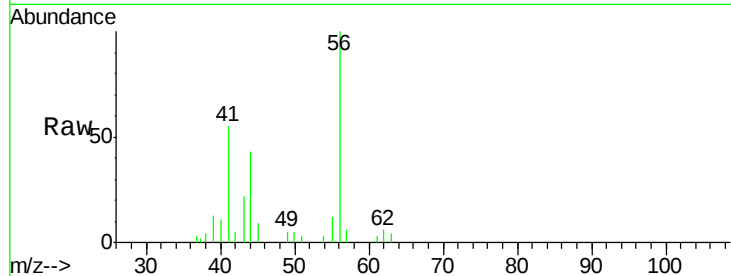
41 65.5 29.6 88.8

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#43

Dibromomethane

Concen: 0.234 ug/l

RT: 6.93 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

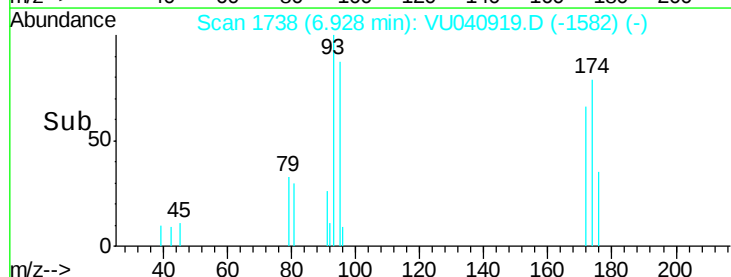
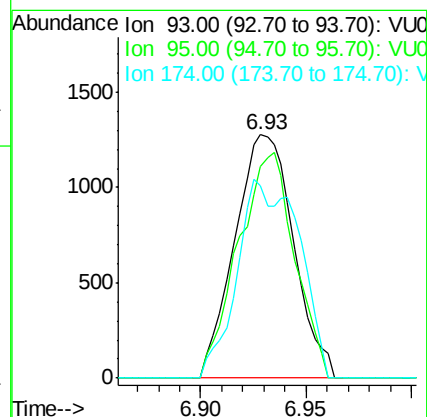
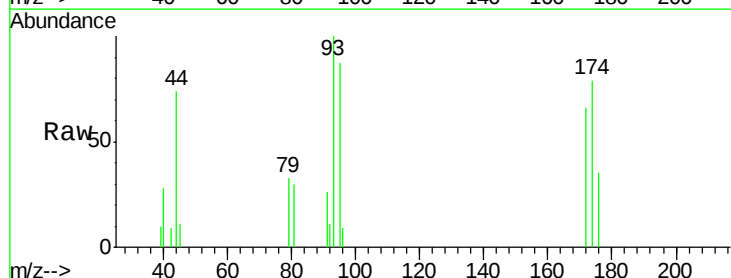
Tgt Ion: 93 Resp: 2474

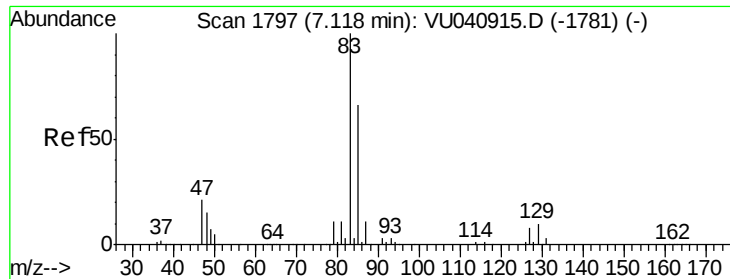
Ion Ratio Lower Upper

93 100

95 88.8 66.3 99.5

174 50.9 70.4 105.6#





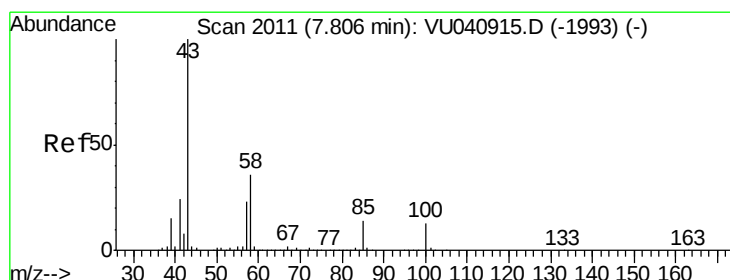
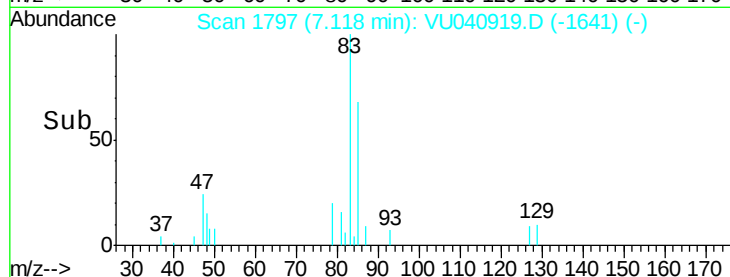
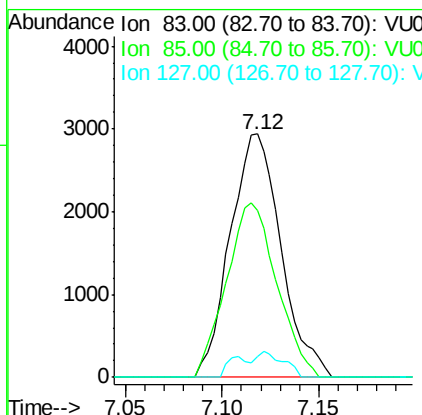
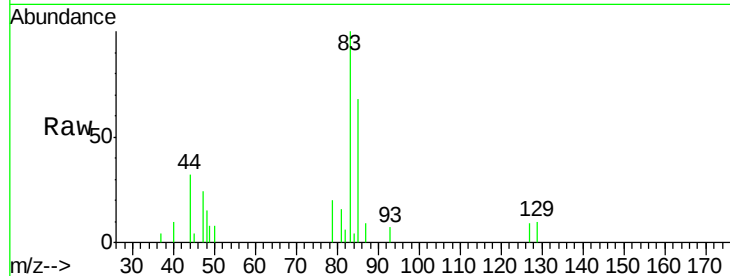
#44
Bromodichloromethane
Concen: 0.219 ug/l
RT: 7.12 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	83	Resp	5372
Ion Ratio	100	Lower	Upper
83	100		
85	68.4	52.6	78.8
127	8.8	6.4	9.6

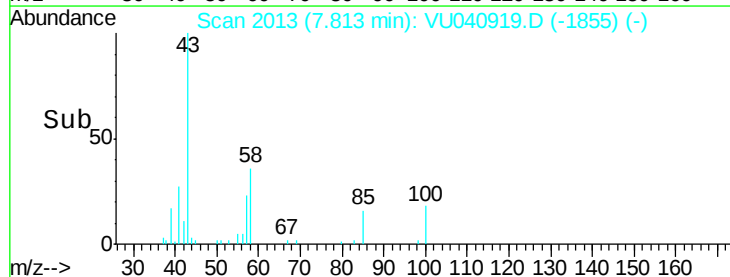
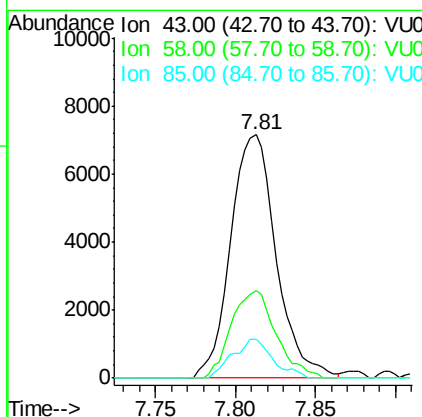
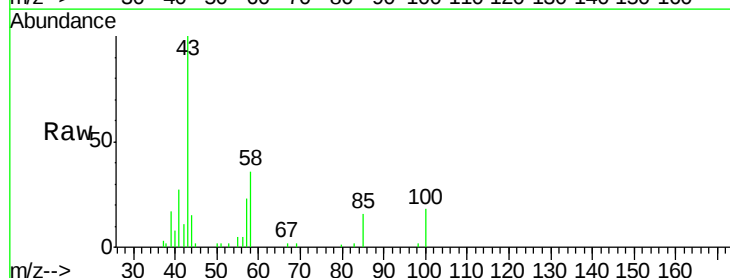
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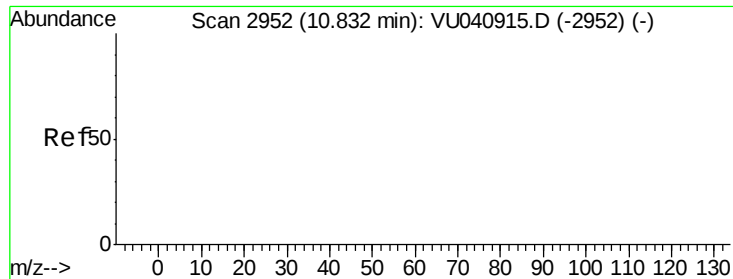
MMDadoda
10/26/2020 4:15:20 PM



#45
4-Methyl-2-Pentanone
Concen: 0.997 ug/l
RT: 7.81 min Scan# 2013
Delta R.T. 0.01 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion	43	Resp	13843
Ion Ratio	100	Lower	Upper
43	100		
58	35.3	17.8	53.5
85	14.0	11.4	17.2





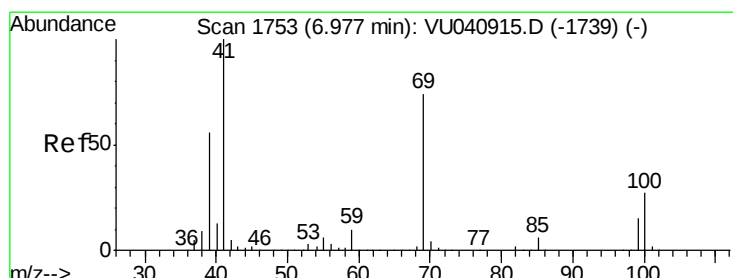
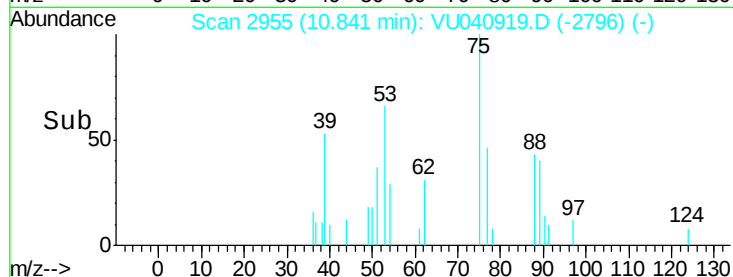
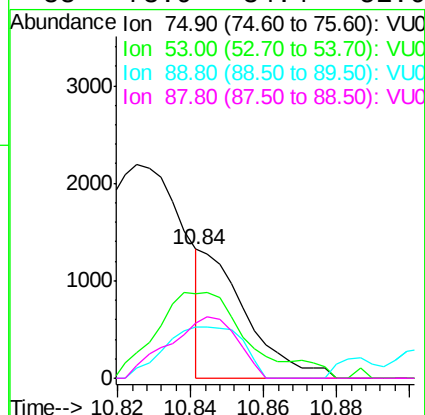
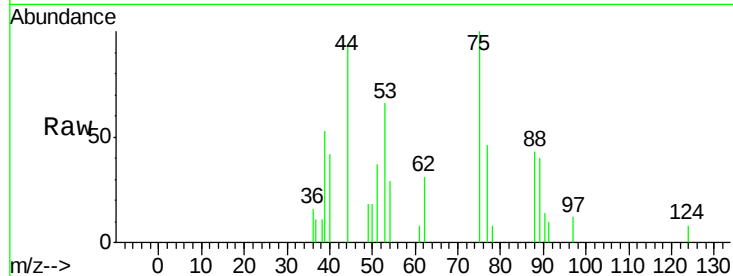
#46
t-1,4-Dichloro-2-butene
Concen: 0.201 ug/l m
RT: 10.84 min Scan# 2955
Delta R.T. 0.01 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion: 75 Resp: 1105
Ion Ratio Lower Upper
75 100
53 138.1 73.0 109.4#
89 71.2 41.7 62.5#
88 73.9 34.4 51.6#

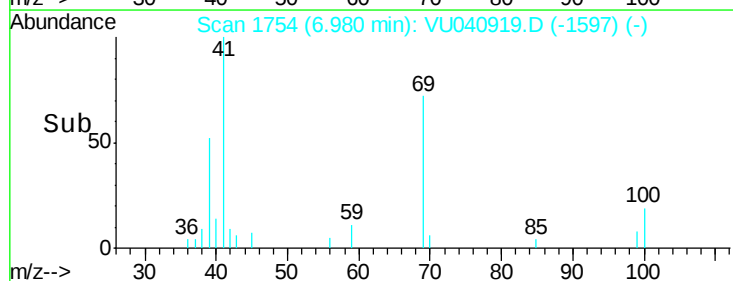
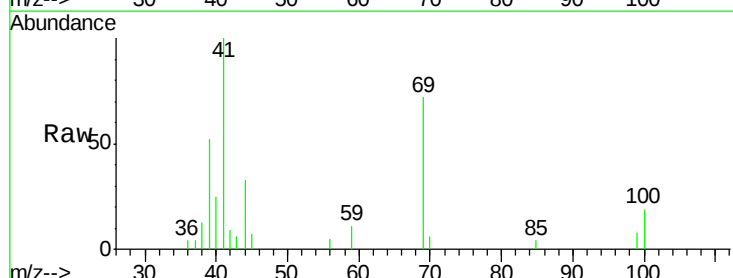
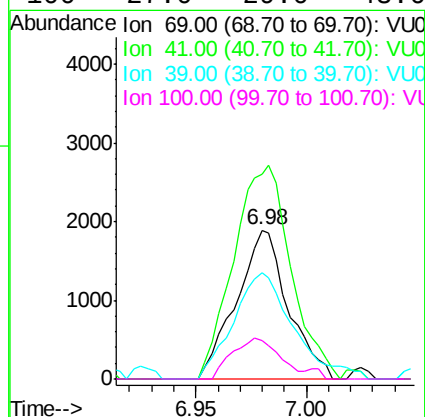
Manual Integrations
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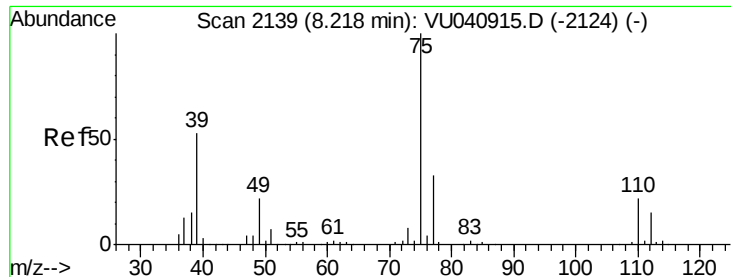
MMDadoda
10/26/2020 4:15:20 PM



#47
Methyl methacrylate
Concen: 0.348 ug/l
RT: 6.98 min Scan# 1754
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion: 69 Resp: 3071
Ion Ratio Lower Upper
69 100
41 158.8 0.0 270.2
39 83.1 61.6 92.4
100 27.0 29.0 43.6#





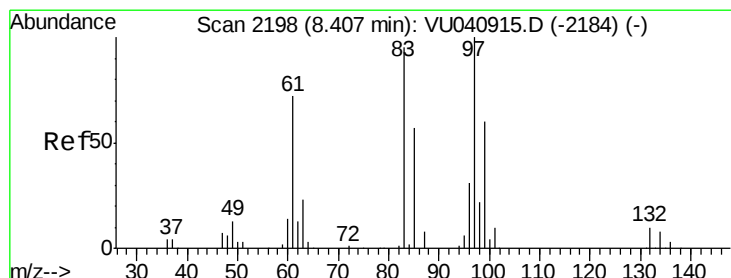
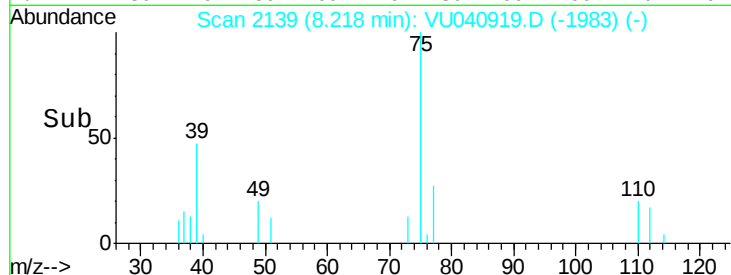
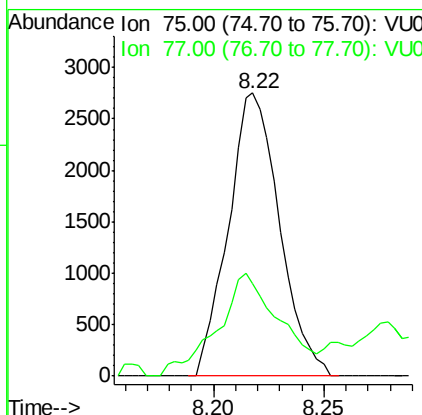
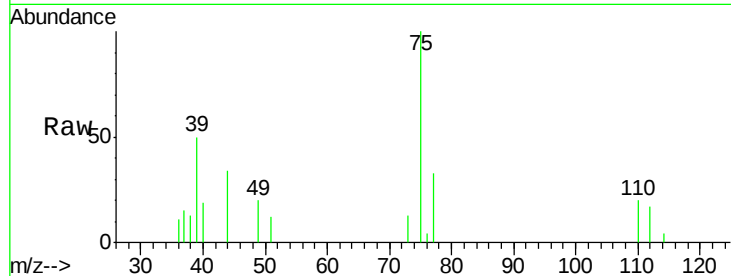
#50
t-1,3-Dichloropropene
Concen: 0.209 ug/l
RT: 8.22 min Scan# 2139
Delta R.T. 0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion: 75 Resp: 4433
Ion Ratio Lower Upper
75 100
77 26.9 26.2 39.4

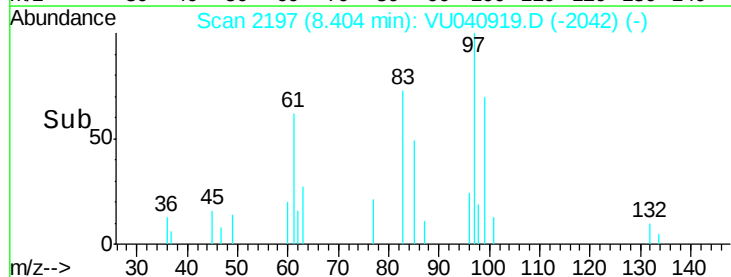
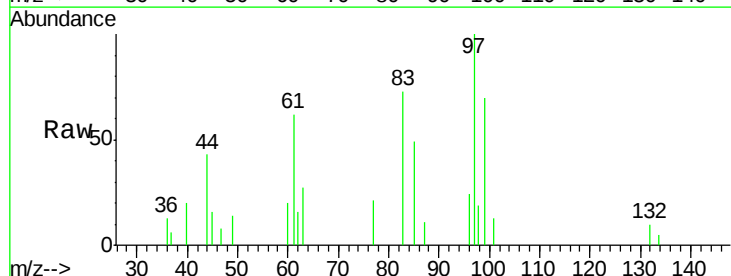
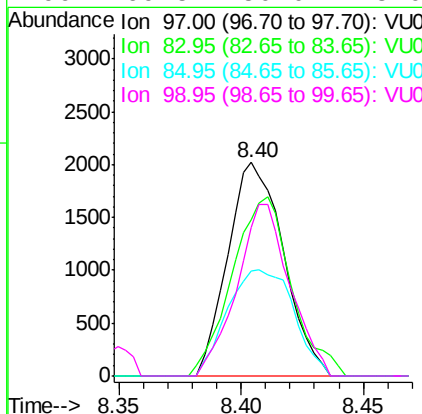
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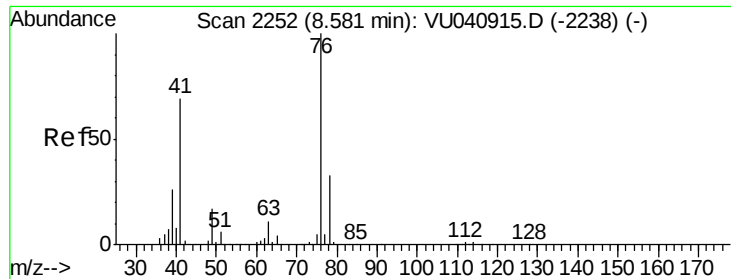
MMDadoda
10/26/2020 4:15:20 PM



#52
1,1,2-Trichloroethane
Concen: 0.240 ug/l
RT: 8.40 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion: 97 Resp: 3207
Ion Ratio Lower Upper
97 100
83 73.2 75.9 113.9#
85 49.0 46.1 69.1
99 69.5 50.0 75.0





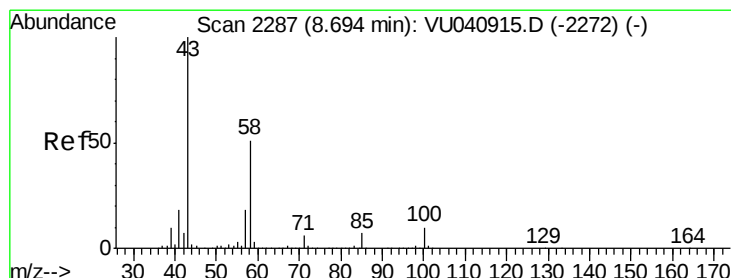
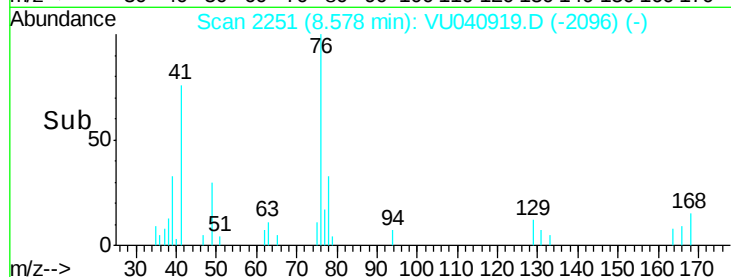
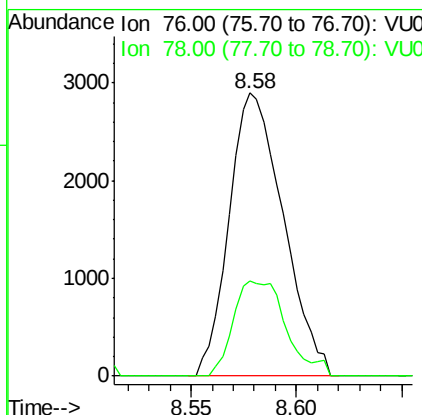
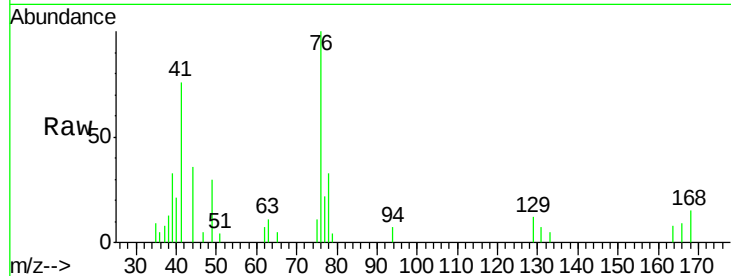
#53
 1,3-Dichloropropane
 Concen: 0.215 ug/l
 RT: 8.58 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.6	39.8

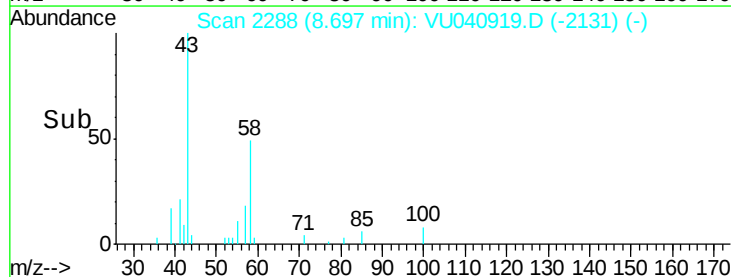
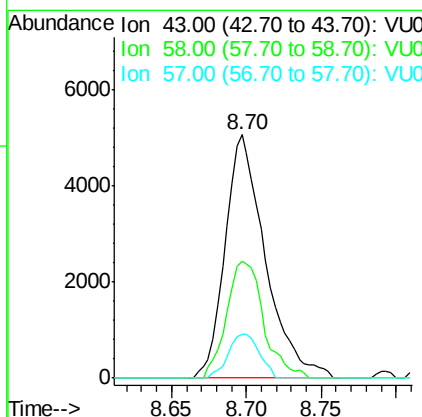
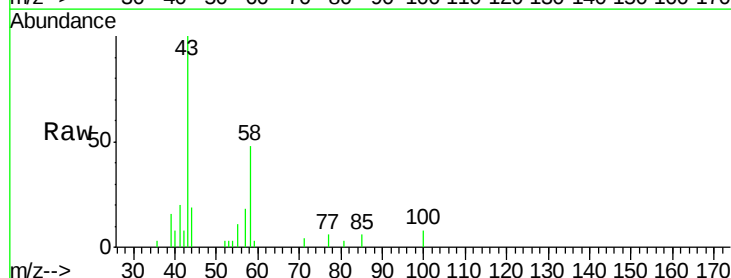
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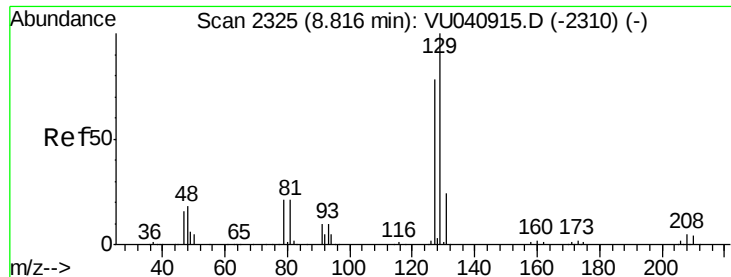
MMDadoda
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#54
 2-Hexanone
 Concen: 0.977 ug/l
 RT: 8.70 min Scan# 2288
 Delta R.T. 0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	44.2	30.2	70.2
57	13.9	0.0	37.4





#55

Dibromochloromethane

Concen: 0.234 ug/l

RT: 8.81 min Scan# 2324

Delta R.T. -0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:129 Resp: 3758

Ion Ratio Lower Upper

129 100

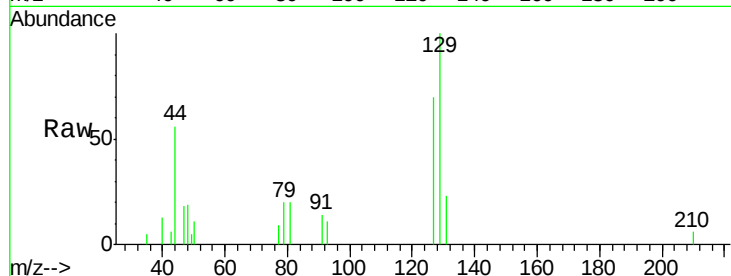
127 75.9 63.1 94.7

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

2500

2000

1500

1000

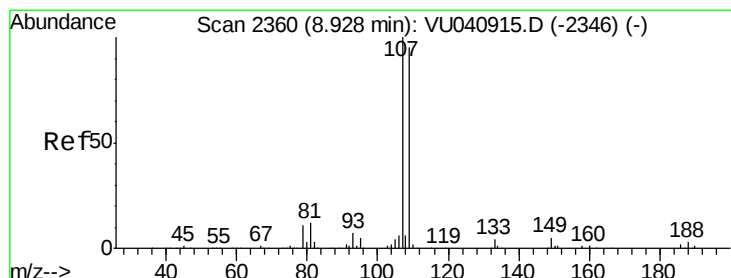
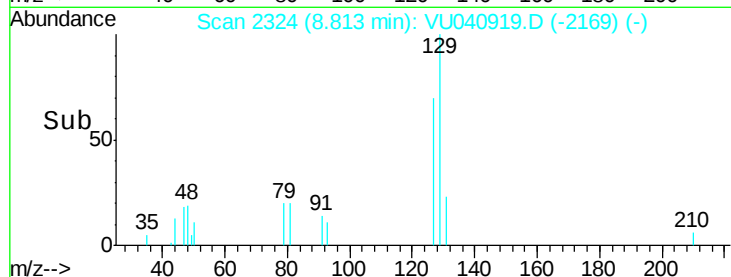
500

0

8.81

8.85

Time-->



#56

1,2-Dibromoethane

Concen: 0.240 ug/l

RT: 8.93 min Scan# 2360

Delta R.T. 0.00 min

Lab File: VU040919.D

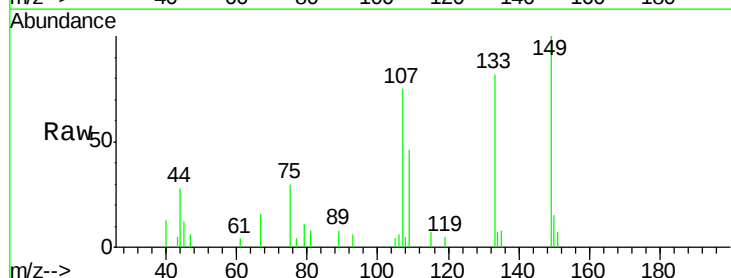
Acq: 22 Oct 2020 23:24

Tgt Ion:107 Resp: 2981

Ion Ratio Lower Upper

107 100

109 79.8 0.0 190.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

2000

1500

1000

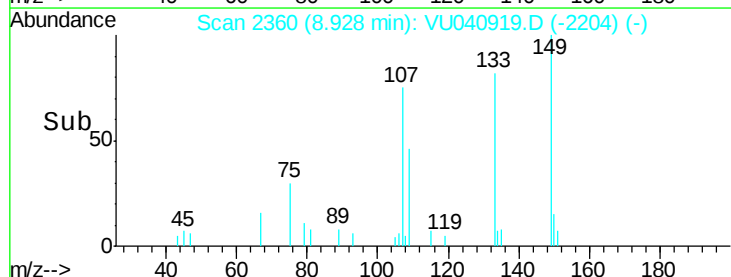
500

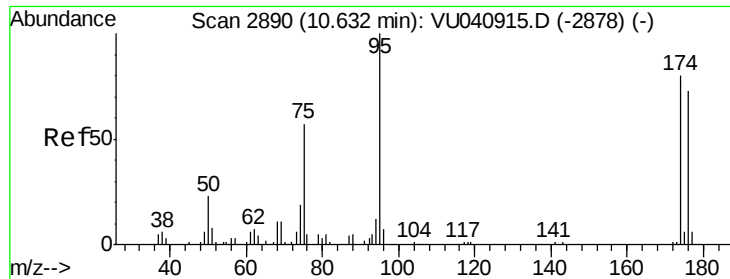
0

8.93

8.95

Time-->





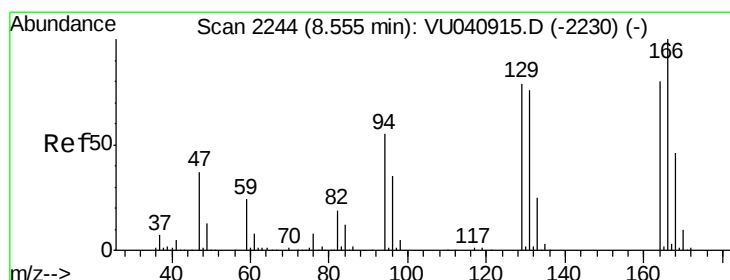
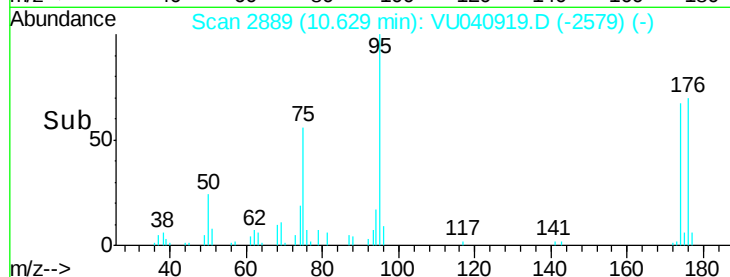
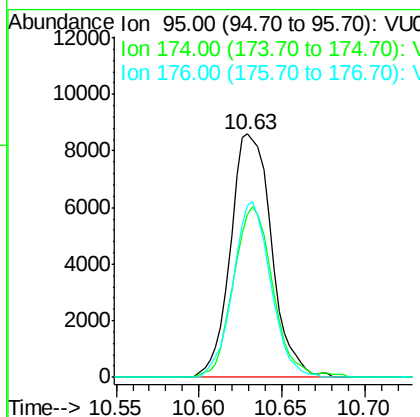
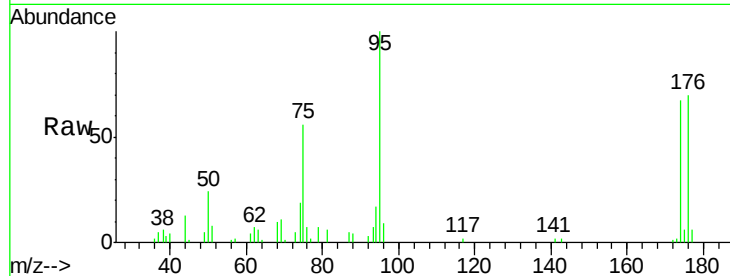
#57
4-Bromofluorobenzene
Concen: 0.781 ug/l
RT: 10.63 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Resp	Lower	Upper
95	100	14793		
174	67.0	60.3	90.5	
176	66.3	55.6	83.4	

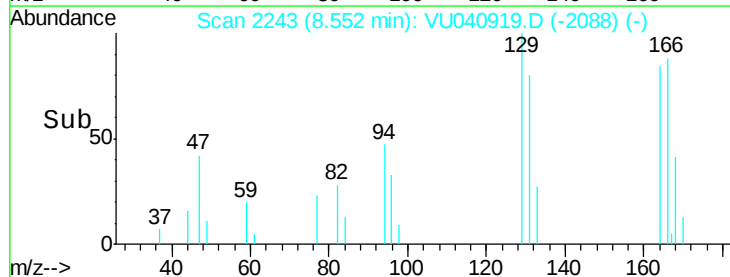
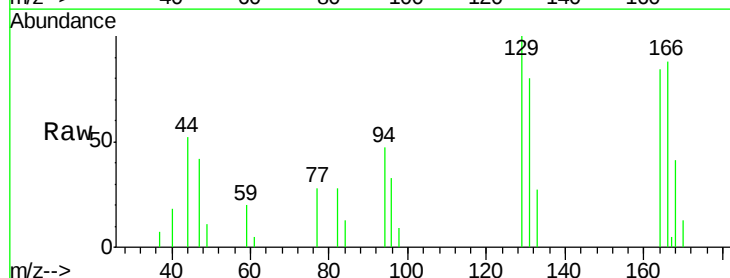
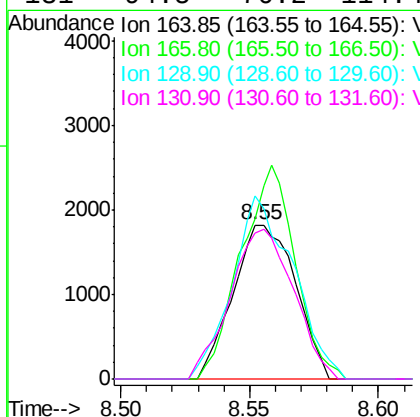
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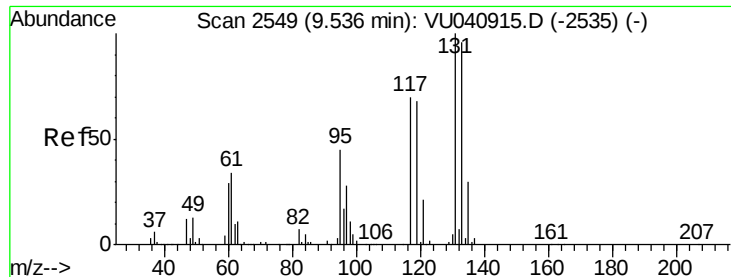
MMDadoda
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#58
Tetrachloroethene
Concen: 0.209 ug/l
RT: 8.55 min Scan# 2243
Delta R.T. -0.00 min
Lab File: VU040919.D
Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	3080		
166	103.8	100.3	150.5	
129	118.7	79.4	119.0	
131	94.5	76.2	114.4	





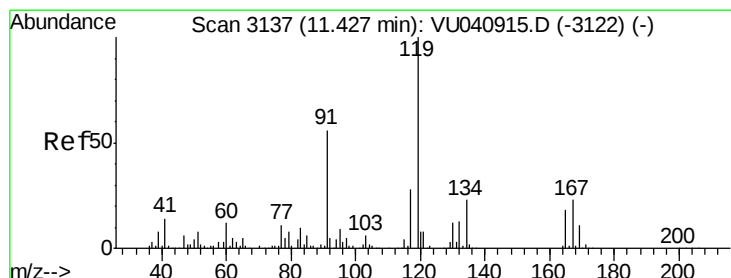
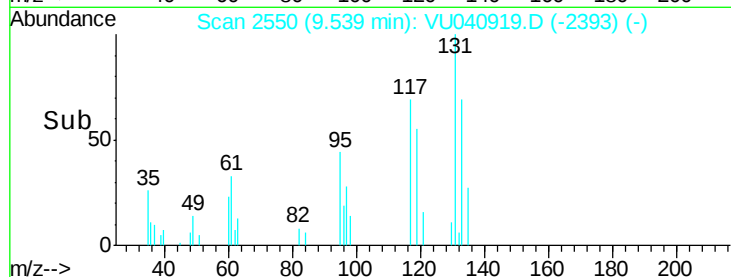
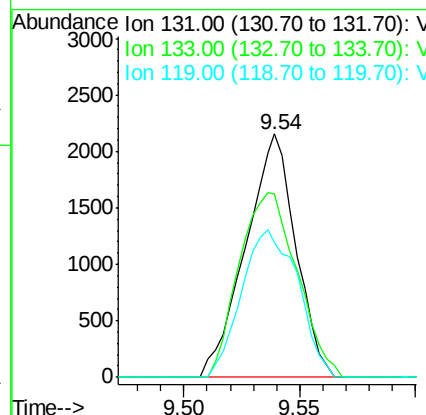
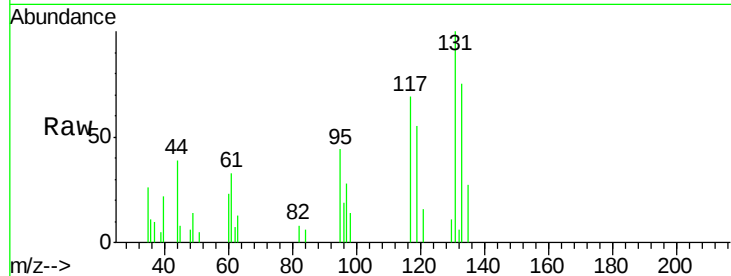
#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.213 ug/l
 RT: 9.54 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
131	100		
133	87.7	77.4	116.0
119	68.2	53.5	80.3

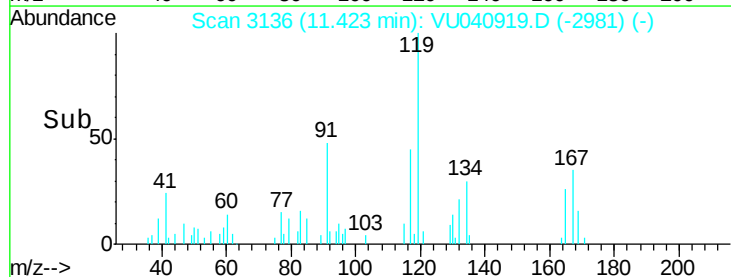
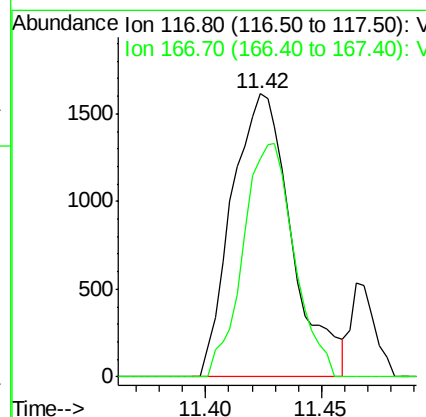
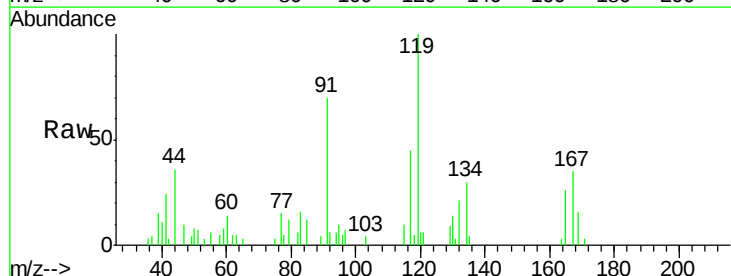
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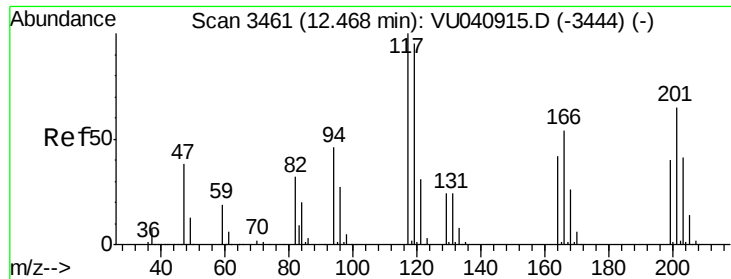
MMDadoda
 10/26/2020 4:15:20 PM



#61
 Pentachloroethane
 Concen: 0.236 ug/l
 RT: 11.42 min Scan# 3136
 Delta R.T. -0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Lower	Upper
117	100		
167	70.2	59.4	89.2





#62

Hexachloroethane

Concen: 0.215 ug/l

RT: 12.47 min Scan# 3461

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

Tot Ion:117 Resp: 2688

Ion Ratio Lower Upper

117 100

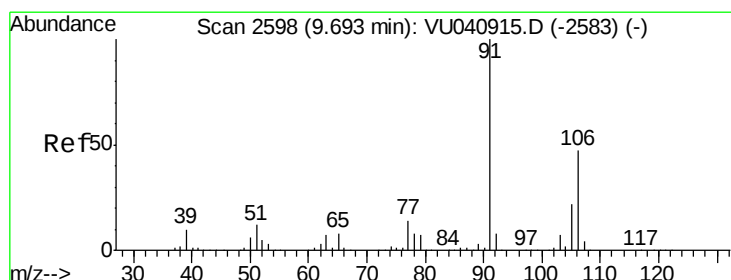
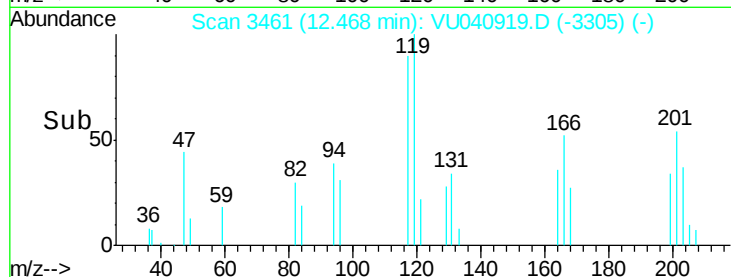
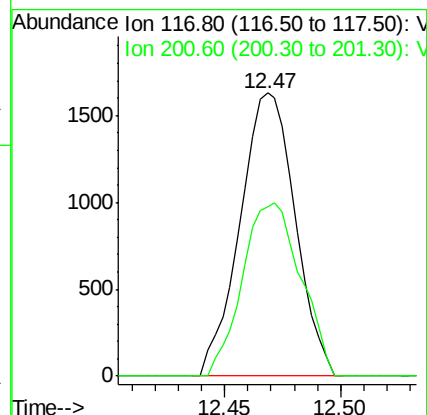
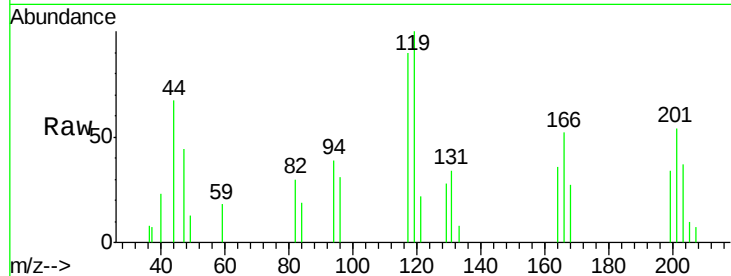
201 64.9 52.6 78.8

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#64

m/p-Xylenes

Concen: 0.280 ug/l

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040919.D

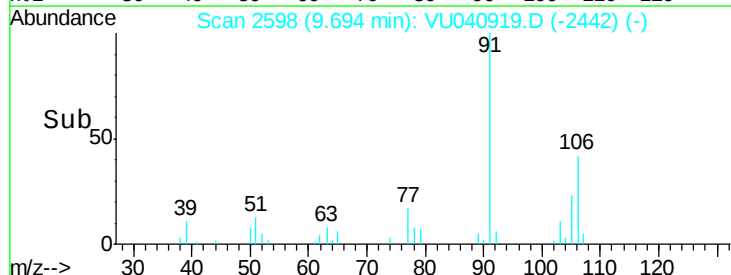
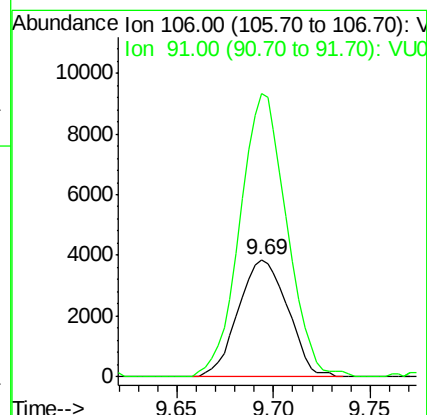
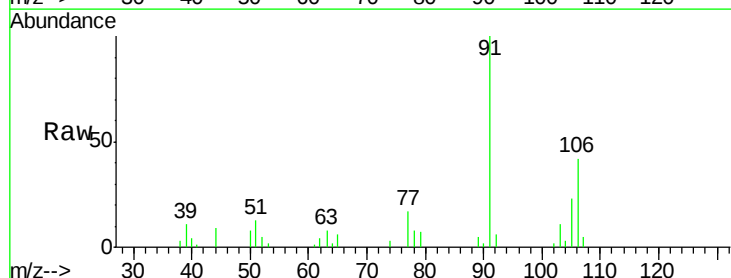
Acq: 22 Oct 2020 23:24

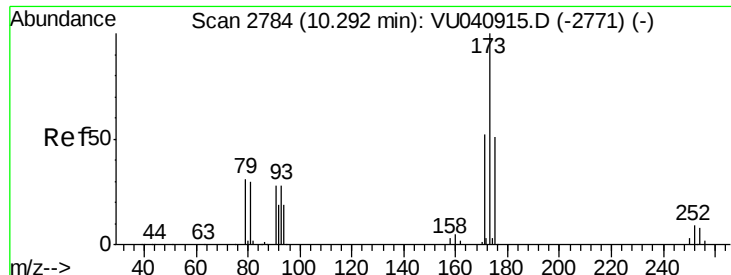
Tgt Ion:106 Resp: 6834

Ion Ratio Lower Upper

106 100

91 229.6 168.3 252.5





#67

Bromoform

Concen: 0.227 ug/l

RT: 10.29 min Scan# 2785

Delta R.T. 0.00 min

Lab File: VU040919.D

Acq: 22 Oct 2020 23:24

Instrument :

MSVOA_U

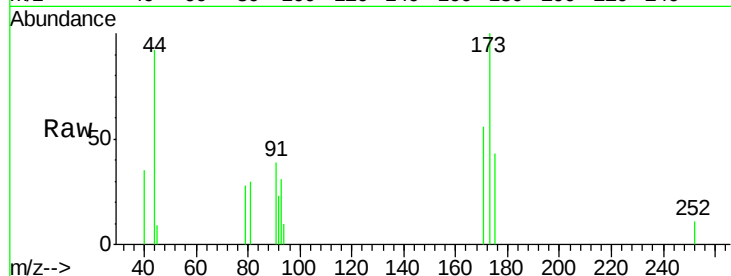
ClientSampleId :

LOD-MDL-WATER-01-QT4-2020

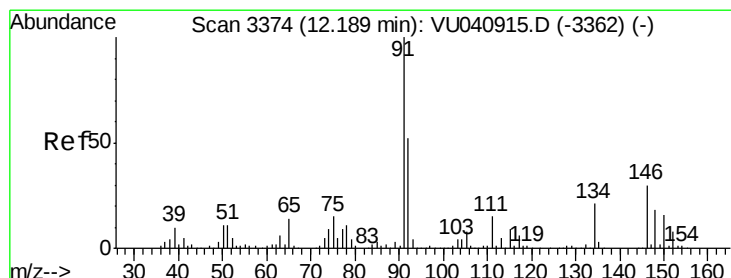
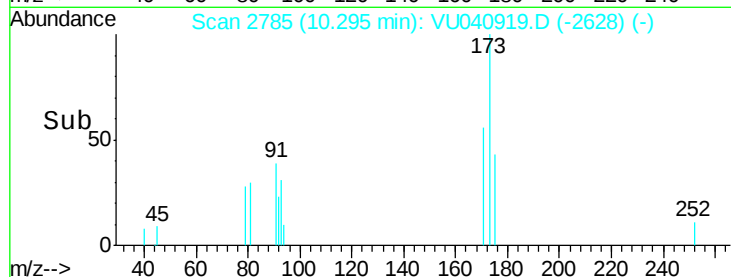
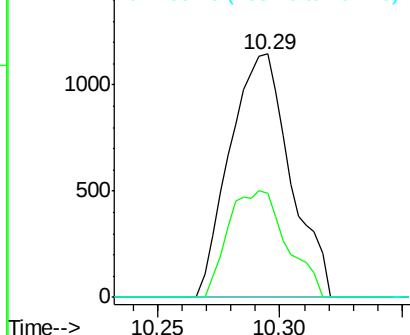
Tot Ion:	173	Resp:	1970
Ion Ratio	Lower	Upper	
173	100		
175	42.5	39.0	58.4
254	0.0	6.6	9.8#

Manual Integrations
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 0.808 ug/l

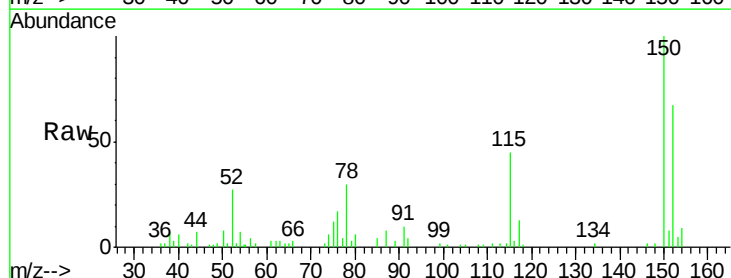
RT: 12.19 min Scan# 3373

Delta R.T. -0.00 min

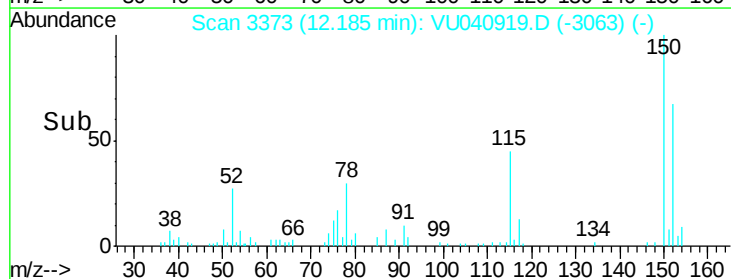
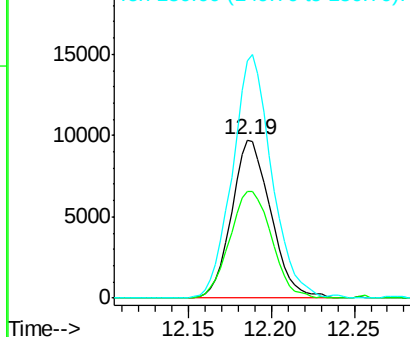
Lab File: VU040919.D

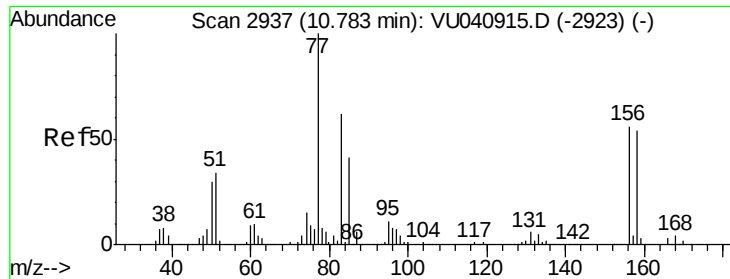
Acq: 22 Oct 2020 23:24

Tgt Ion:	152	Resp:	15976
Ion Ratio	Lower	Upper	
152	100		
115	72.2	0.0	323.4
150	154.8	0.0	653.8



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





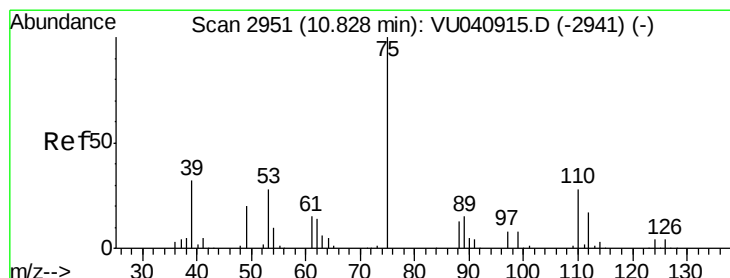
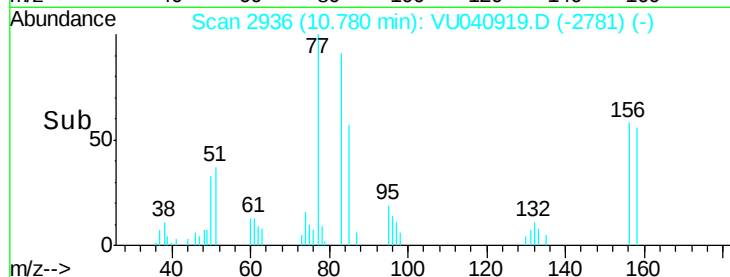
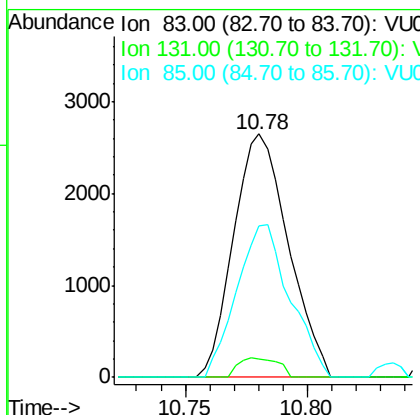
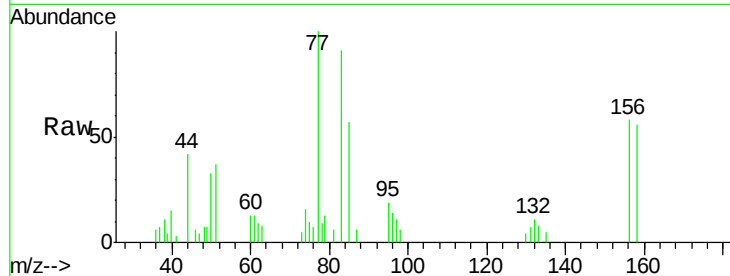
#70
 1,1,2,2-Tetrachloroethane
 Concen: 0.226 ug/l
 RT: 10.78 min Scan# 2936
 Delta R.T. -0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion: 83 Resp: 4120
 Ion Ratio Lower Upper
 83 100
 131 5.8 7.1 10.7#
 85 60.8 51.8 77.6

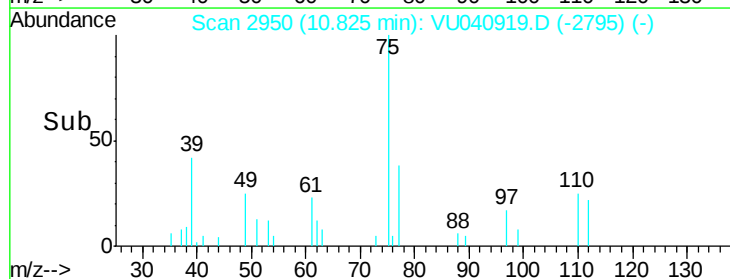
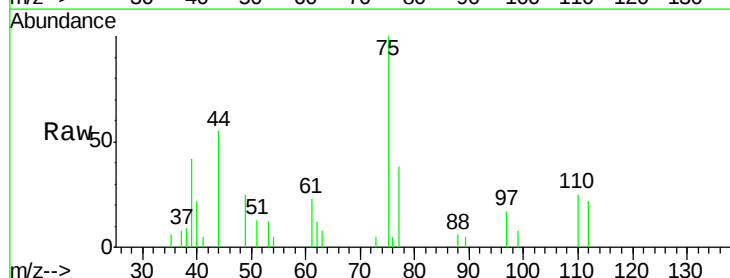
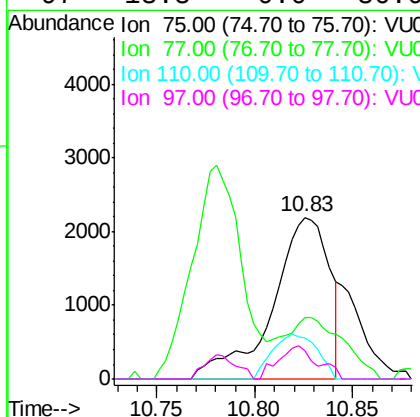
Manual Integrations
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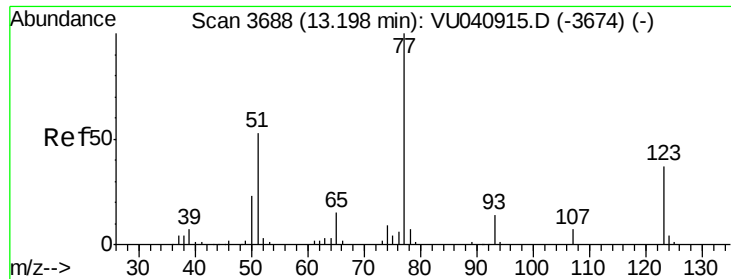
MMDadoda
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#71
 1,2,3-Trichloropropane
 Concen: 0.319 ug/l m
 RT: 10.83 min Scan# 2950
 Delta R.T. -0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion: 75 Resp: 4430
 Ion Ratio Lower Upper
 75 100
 77 33.3 0.0 110.8
 110 21.6 0.0 73.4
 97 13.8 0.0 36.0





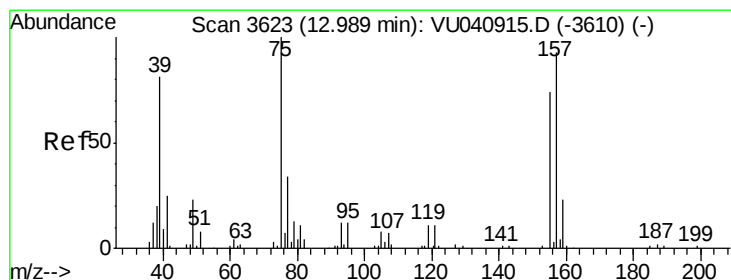
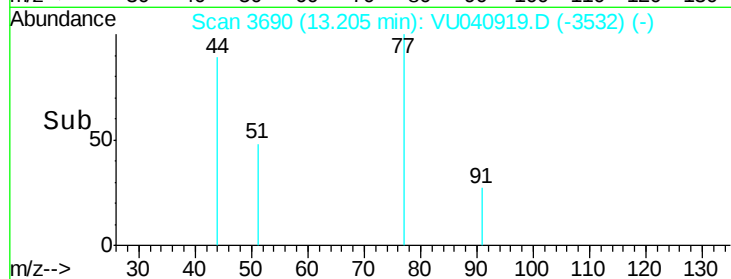
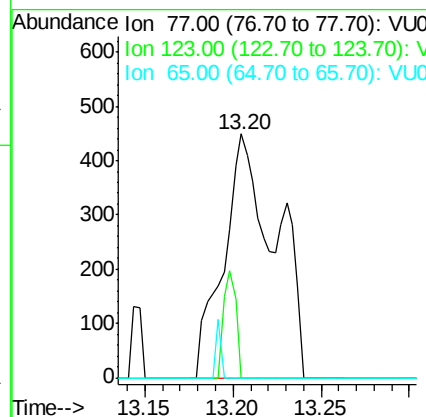
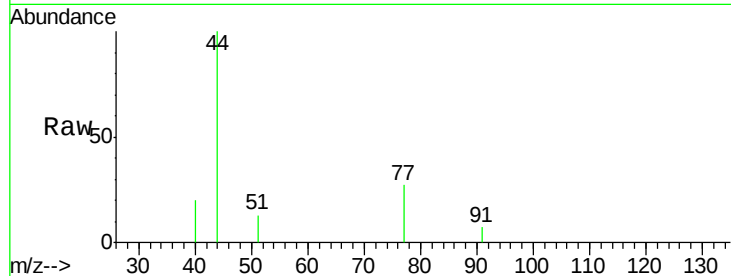
#80
 Nitrobenzene
 Concen: 1.057 ug/l m
 RT: 13.20 min Scan# 3690
 Delta R.T. 0.01 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
77	100		
123	10.3	16.8	59.4#
65	2.3	11.0	14.0#

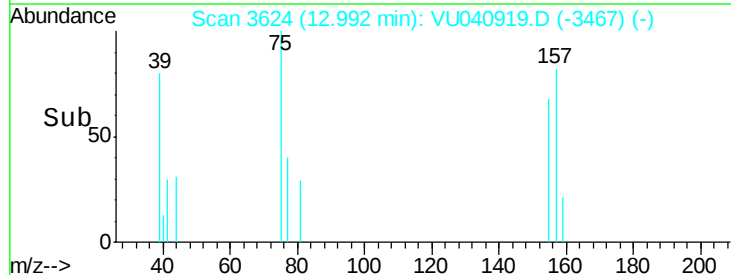
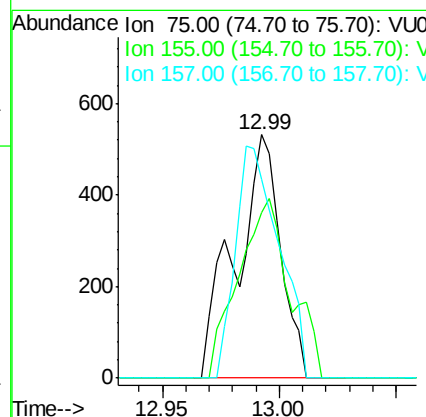
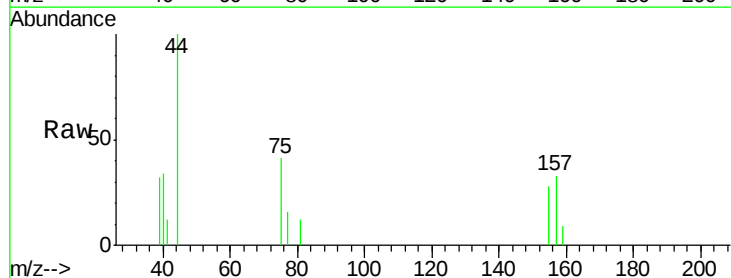
Manual Integrations
 APPROVED

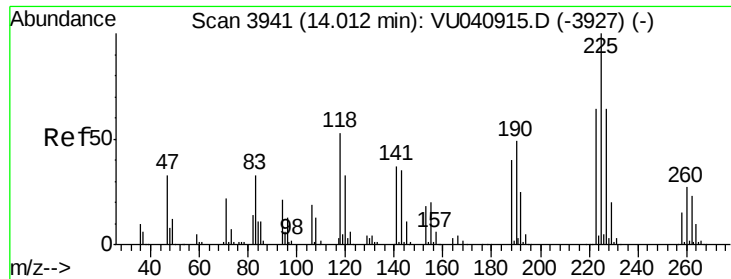
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#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.207 ug/l m
 RT: 12.99 min Scan# 3624
 Delta R.T. 0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.5	57.1	85.7
157	94.3	72.4	108.6





#88
 Hexachlorobutadiene
 Concen: 0.229 ug/l
 RT: 14.01 min Scan# 3941
 Delta R.T. 0.00 min
 Lab File: VU040919.D
 Acq: 22 Oct 2020 23:24

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2020

Tot Ion	Ratio	Lower	Upper
225	100		
223	63.9	49.9	74.9
227	58.0	51.1	76.7

Manual Integrations
 APPROVED

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