

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072920\
 Data File : VU039711.D
 Acq On : 29 Jul 2020 18:54
 Operator : SY/MD
 Sample : L3216-07 0.25PPB
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 LOD-MDL-WATER-01-QT3-2020

Manual Integrations
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MMDadoda
 7/31/2020 3:42:04 PM

Quant Time: Jul 31 14:06:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 31 14:03:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.13	96	20138	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.63	95	6366	0.81	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	6211	0.81	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.39	85	1709	0.244	ug/l	93
3) Chloromethane	1.53	50	3334	0.384	ug/l	93
4) Vinyl Chloride	1.61	62	1919	0.240	ug/l #	88
5) Bromomethane	1.86	94	1852	0.338	ug/l	83
6) Chloroethane	1.94	64	2045	0.368	ug/l	96
7) Trichlorofluoromethane	2.15	101	2890	0.273	ug/l	96
8) 1,1,2-Trichloro-1,2,2-trif	2.59	101	1465	0.241	ug/l	91
9) 1,1-Dichloroethene	2.59	96	1622	0.290	ug/l	76
10) Iodomethane	2.73	142	1683	0.298	ug/l	95
11) Allyl Chloride	2.94	41	3483	0.289	ug/l	96
12) Acrylonitrile	3.34	53	1359	0.692	ug/l #	83
13) Acetone	2.66	43	3163	1.712	ug/l	93
14) Carbon Disulfide	2.80	76	5241	0.255	ug/l #	93
15) Methylene Chloride	3.06	84	3102	0.398	ug/l	92
16) trans-1,2-Dichloroethene	3.36	96	1723	0.271	ug/l	93
17) 1,1-Dichloroethane	3.88	63	3635	0.260	ug/l #	87
18) 2-Butanone	4.75	43	5709m	1.837	ug/l	
19) Cyclohexane	5.40	56	3609m	0.267	ug/l	
21) 2,2-Dichloropropane	4.68	77	3505	0.308	ug/l #	85
22) cis-1,2-Dichloroethene	4.69	96	1617	0.236	ug/l	65
23) Diethyl Ether	2.39	59	1611	0.282	ug/l #	80
24) tert-Butyl Alcohol	3.21	59	2783m	2.731	ug/l	
25) Methyl tert-Butyl Ether	3.39	73	4811	0.264	ug/l	91
26) Bromochloromethane	4.99	128	756	0.269	ug/l	95
27) Chloroform	5.11	83	3703	0.283	ug/l	99
28) 1,1,1-Trichloroethane	5.33	97	2523	0.239	ug/l	91
29) 1,1-Dichloropropene	5.54	75	2662	0.261	ug/l	92
30) Carbon Tetrachloride	5.53	117	2010	0.232	ug/l	96
31) Isopropyl Ether	4.03	45	7196	0.282	ug/l	95
32) Ethyl-t-butyl ether	4.53	59	5483	0.253	ug/l	97
33) Tert-Amyl methyl ether	5.97	73	3524	0.225	ug/l #	83
34) Propionitrile	4.83	54	984	1.284	ug/l #	84
35) Benzene	5.78	78	6581	0.261	ug/l #	85
36) 1,2-Dichloroethane	5.81	62	2609	0.276	ug/l #	90
37) Trichloroethene	6.55	130	1476	0.256	ug/l	93
38) 1,2-Dichloropropane	6.81	63	1641	0.236	ug/l	98
39) Methacrylonitrile	5.01	41	1316	0.326	ug/l #	73
40) Methyl acrylate	4.88	55	1717	0.330	ug/l #	80
41) Tetrahydrofuran	5.10	42	1504	0.740	ug/l #	77
42) 1-Chlorobutane	5.48	56	4218	0.264	ug/l	80
43) Dibromomethane	6.93	93	814	0.218	ug/l	88

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Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

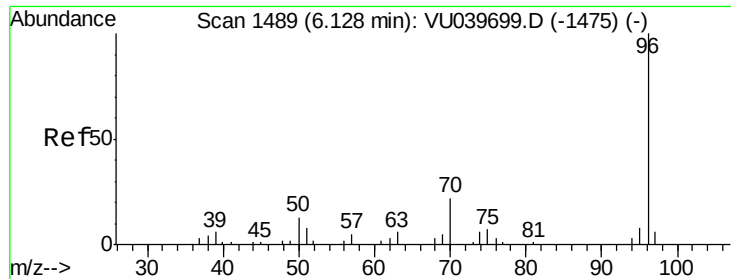
Manual Integrations
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Quant Time: Jul 31 14:06:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 31 14:03:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Bromodichloromethane	7.11	83	1998	0.233	ug/l #	94
45) 4-Methyl-2-Pentanone	7.82	43	6297	1.112	ug/l	95
46) t-1,4-Dichloro-2-butene	10.83	75	784m	0.466	ug/l	
47) Methyl methacrylate	6.98	69	1525	0.438	ug/l	91
49) Toluene	7.98	92	3139	0.209	ug/l	96
50) t-1,3-Dichloropropene	8.22	75	1558	0.202	ug/l	95
51) cis-1,3-Dichloropropene	7.62	75	1817	0.200	ug/l	92
52) 1,1,2-Trichloroethane	8.41	97	1167	0.240	ug/l #	90
53) 1,3-Dichloropropane	8.59	76	2048	0.220	ug/l	92
54) 2-Hexanone	8.70	43	4374	1.079	ug/l	98
56) 1,2-Dibromoethane	8.93	107	1123	0.240	ug/l	97
58) Tetrachloroethene	8.56	164	1104	0.219	ug/l	92
59) Chlorobenzene	9.45	112	3510	0.226	ug/l #	87
60) 1,1,1,2-Tetrachloroethane	9.54	131	1076	0.206	ug/l	94
64) m/p-Xylenes	9.69	106	3694	0.340	ug/l	89
65) o-Xylene	10.10	106	2086	0.202	ug/l	83
70) 1,1,2,2-Tetrachloroethane	10.78	83	1667	0.238	ug/l #	92
72) Bromobenzene	10.78	156	1314	0.210	ug/l	97
85) 1,2-Dichlorobenzene	12.21	146	2676	0.206	ug/l	97
88) Hexachlorobutadiene	14.01	225	816	0.221	ug/l #	83
89) Naphthalene	14.08	128	3893	0.224	ug/l #	92
90) 1,2,3-Trichlorobenzene	14.32	180	1658	0.216	ug/l	99

(#) = 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: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

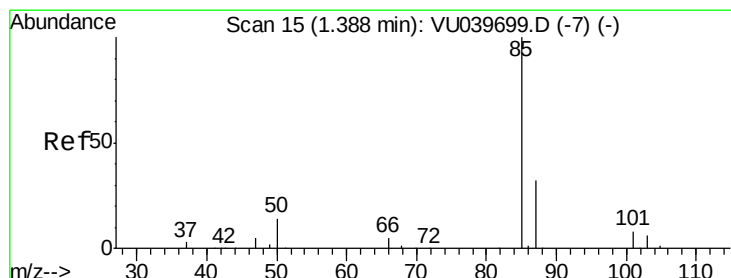
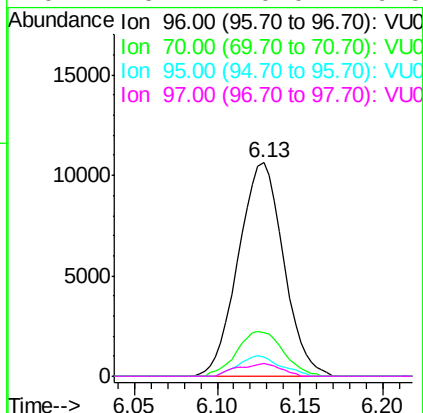
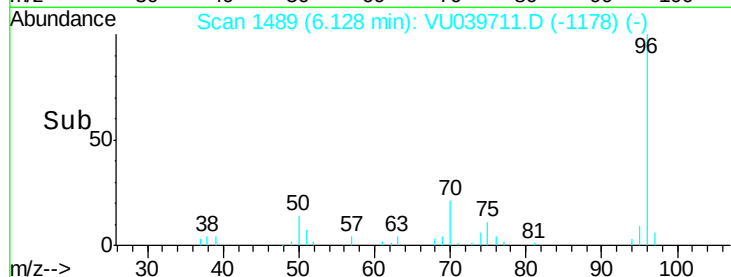
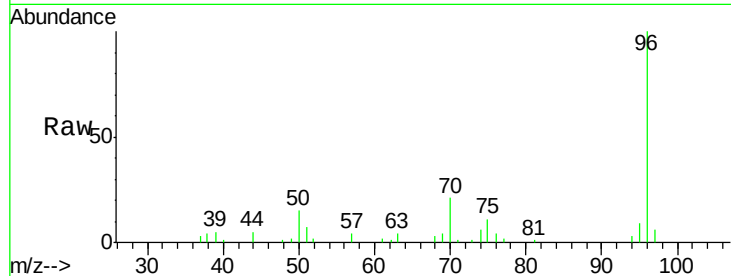
ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
70	21.6	16.3	24.5	
95	8.9	6.8	10.2	
97	5.7	0.0	0.0	

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#2

Dichlorodifluoromethane

Concen: 0.244 ug/l

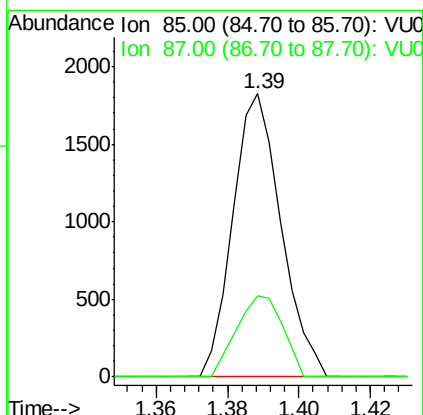
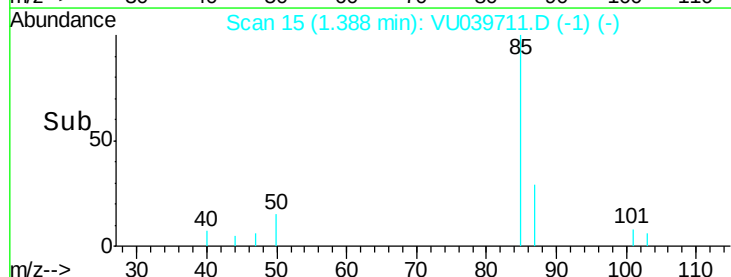
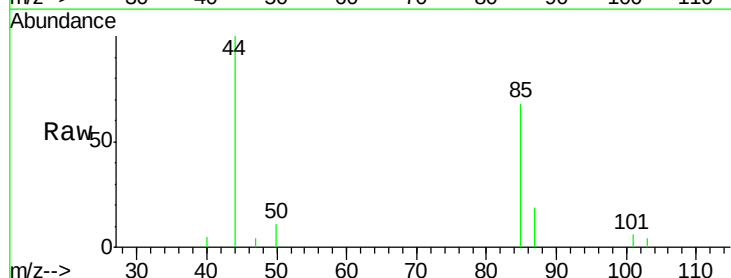
RT: 1.39 min Scan# 15

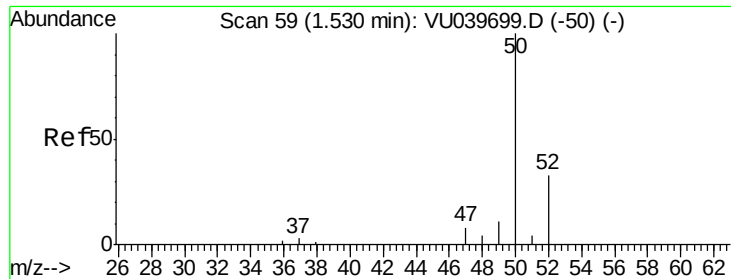
Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Tgt Ion	Ion	Ratio	Lower	Upper
85	100			
87	28.5	16.2	48.6	





#3

Chloromethane

Concen: 0.384 ug/l

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion: 50 Resp: 3334

Ion Ratio Lower Upper

50 100

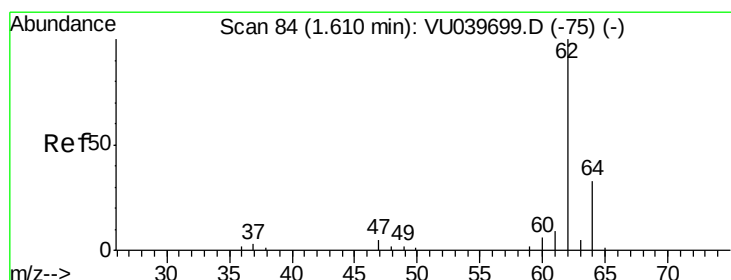
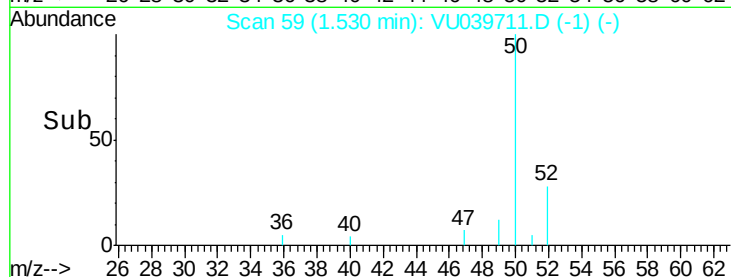
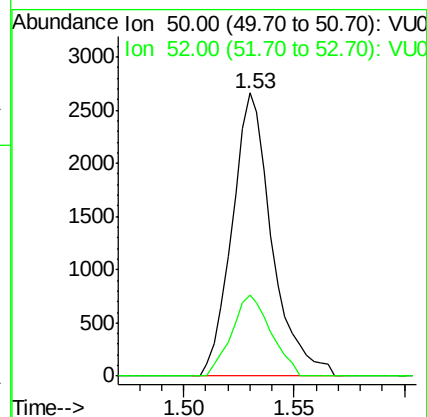
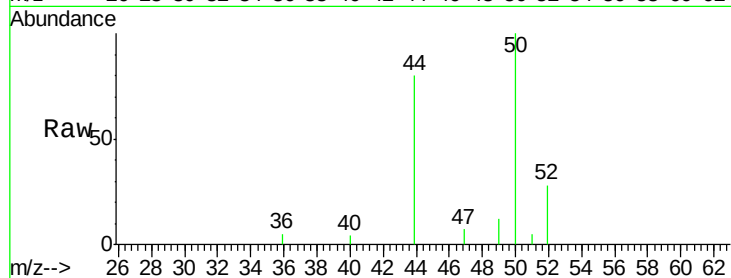
52 28.4 26.0 39.0

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#4

Vinyl Chloride

Concen: 0.240 ug/l

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039711.D

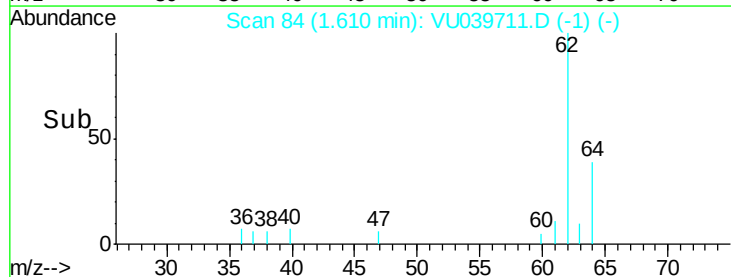
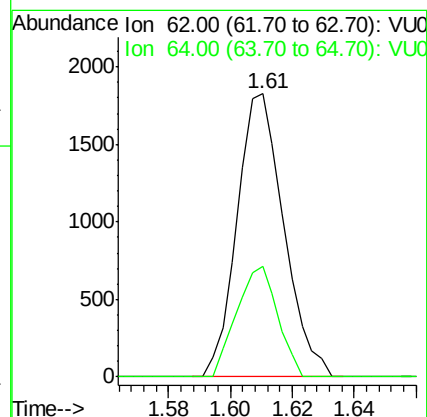
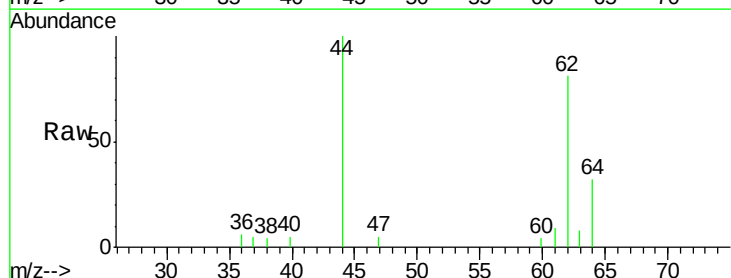
Acq: 29 Jul 2020 18:54

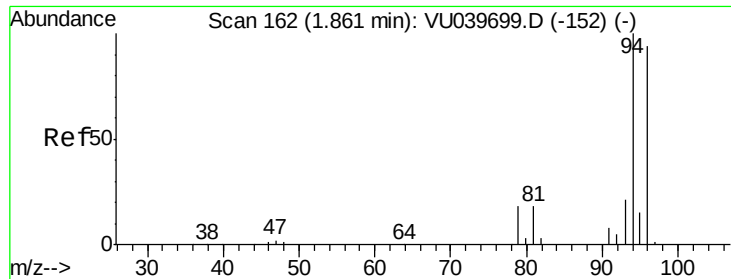
Tgt Ion: 62 Resp: 1919

Ion Ratio Lower Upper

62 100

64 39.1 26.0 39.0#





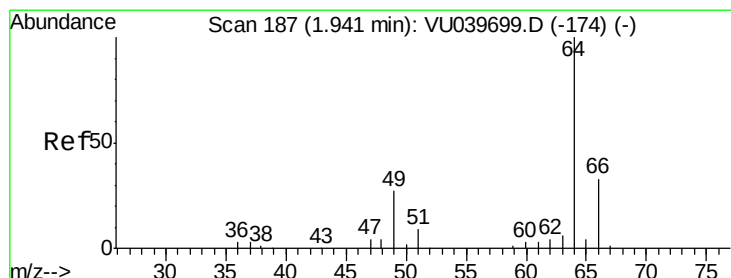
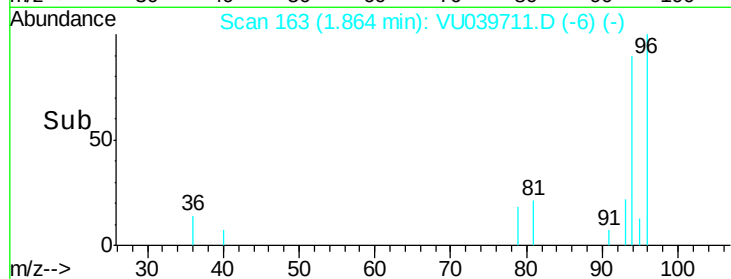
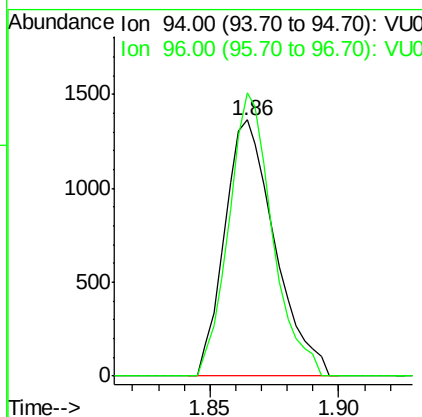
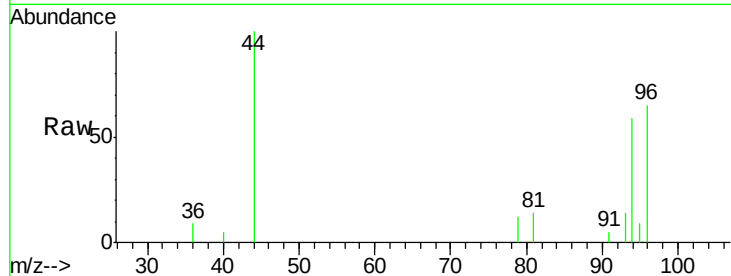
#5
Bromomethane
Concen: 0.338 ug/l
RT: 1.86 min Scan# 163
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion: 94 Resp: 1852
Ion Ratio Lower Upper
94 100
96 110.6 75.0 112.6

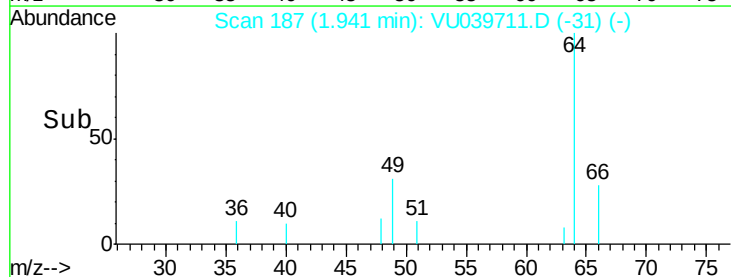
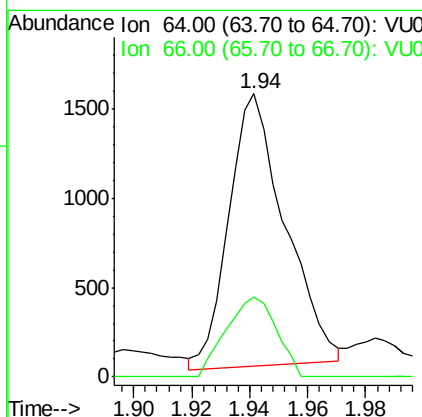
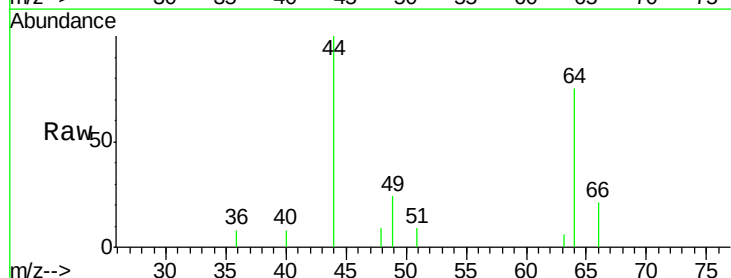
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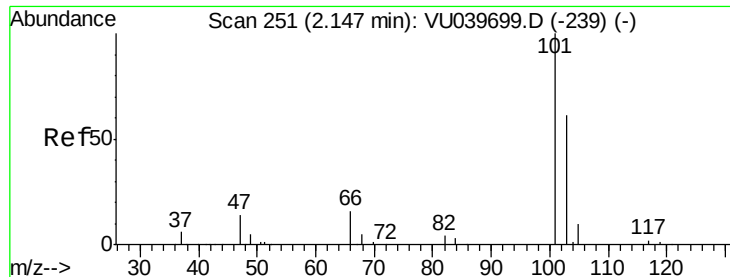
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#6
Chloroethane
Concen: 0.368 ug/l
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion: 64 Resp: 2045
Ion Ratio Lower Upper
64 100
66 30.2 26.2 39.2





#7

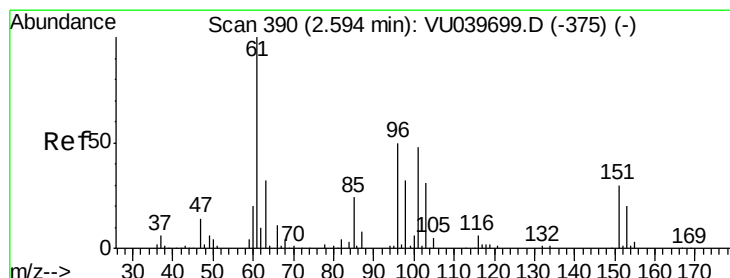
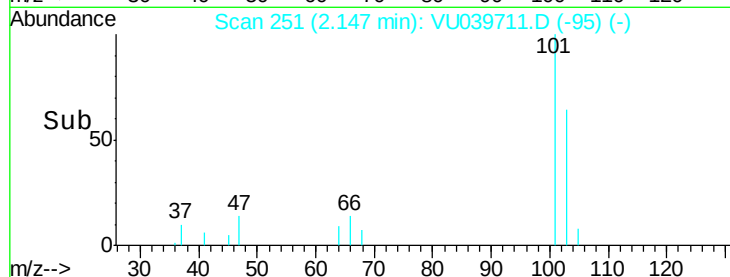
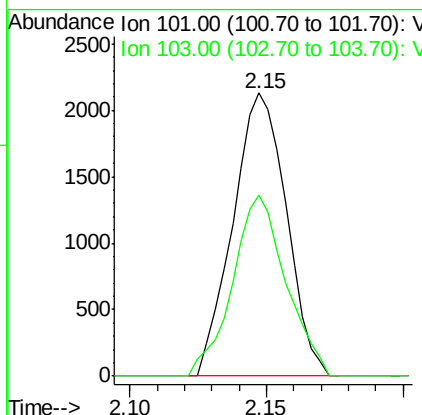
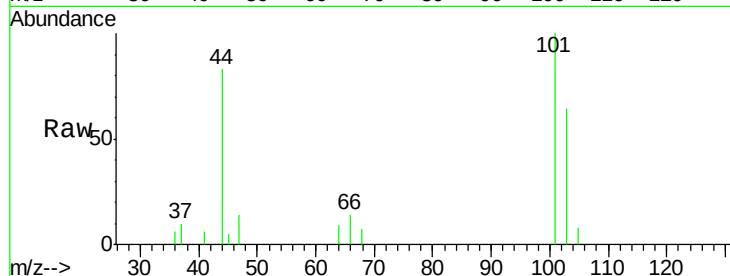
Trichlorofluoromethane
Concen: 0.273 ug/l
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
101	100	2890		
103	64.1	48.8	73.2	

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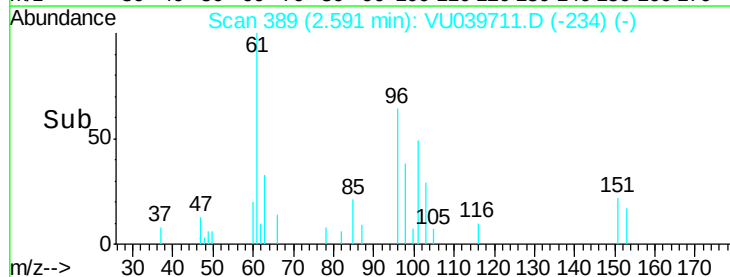
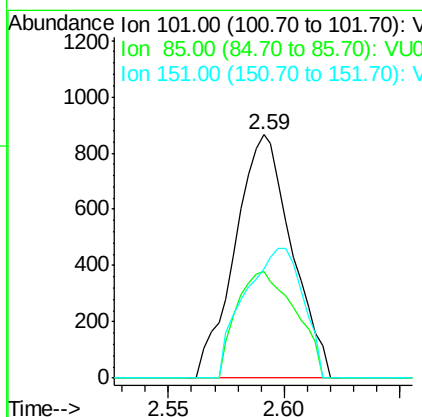
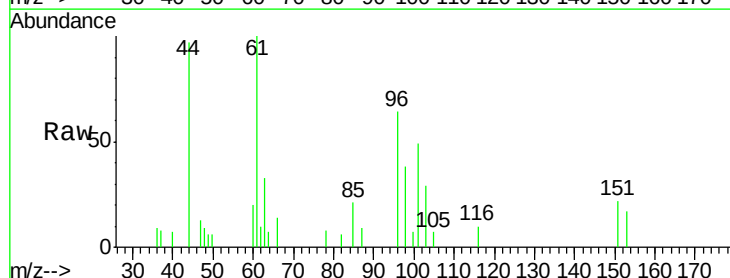
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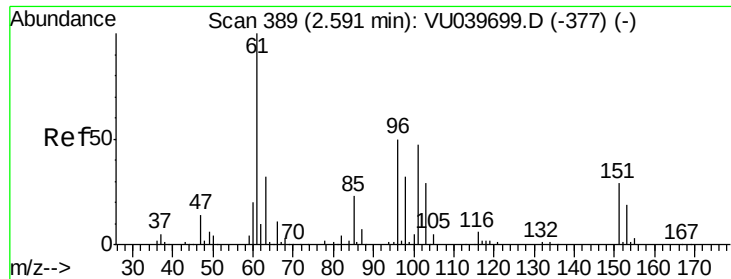


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.241 ug/l
RT: 2.59 min Scan# 389
Delta R.T. -0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	1465		
85	45.5	39.9	59.9	
151	55.1	51.0	76.4	





#9

1,1-Dichloroethene

Concen: 0.290 ug/l

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

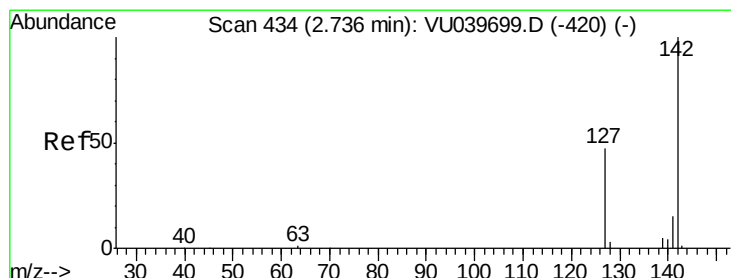
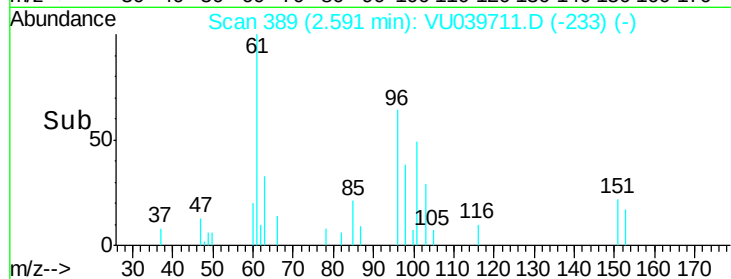
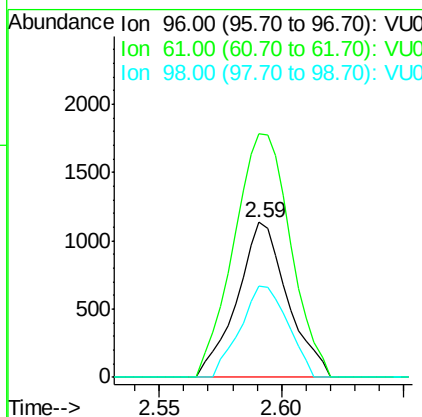
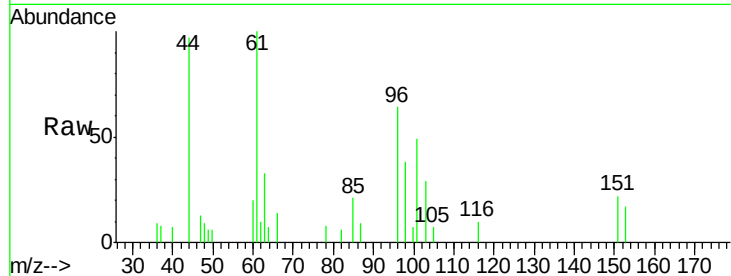
ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion:	96	Resp:	1622
Ion	Ratio	Lower	Upper
96	100		
61	156.8	0.0	604.5
98	58.8	0.0	127.2

Manual Integrations
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#10

Iodomethane

Concen: 0.298 ug/l

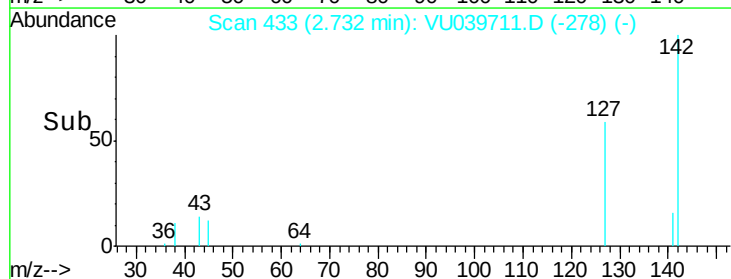
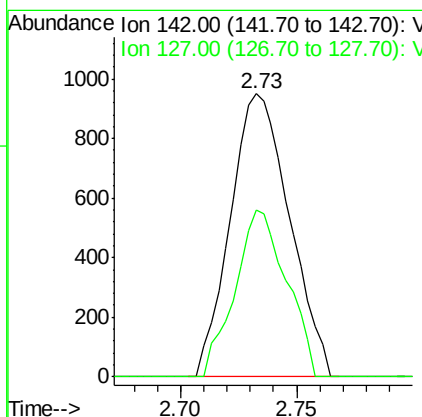
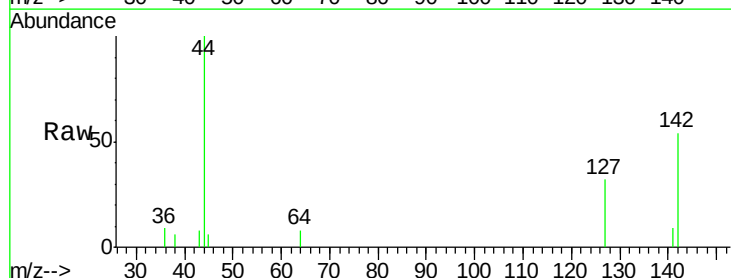
RT: 2.73 min Scan# 433

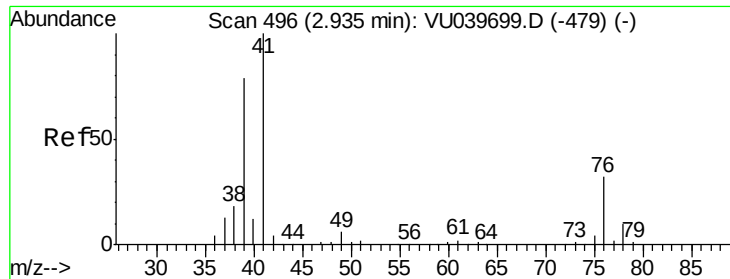
Delta R.T. -0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Tgt Ion:	142	Resp:	1683
Ion	Ratio	Lower	Upper
142	100		
127	51.3	38.4	57.6





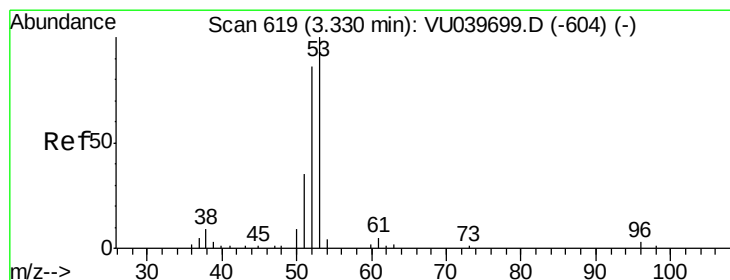
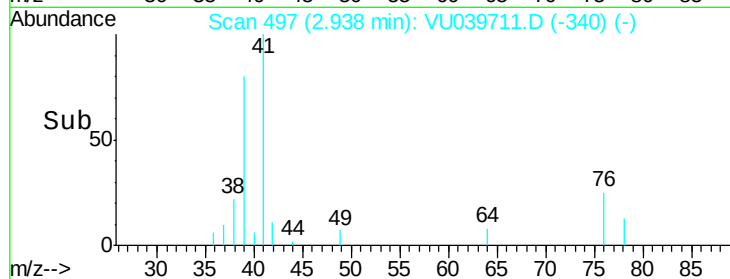
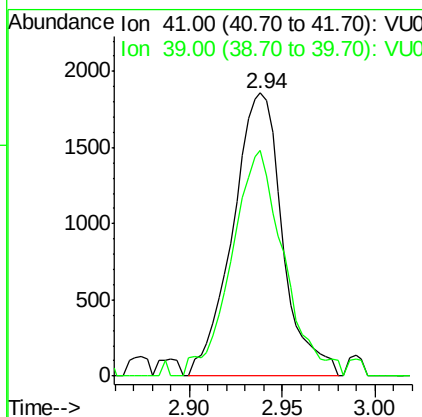
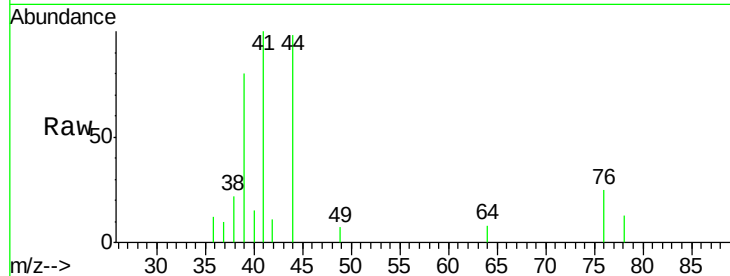
#11
Allvl Chloride
Concen: 0.289 ug/l
RT: 2.94 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion: 41 Resp: 3483
Ion Ratio Lower Upper
41 100
39 83.4 64.2 96.2

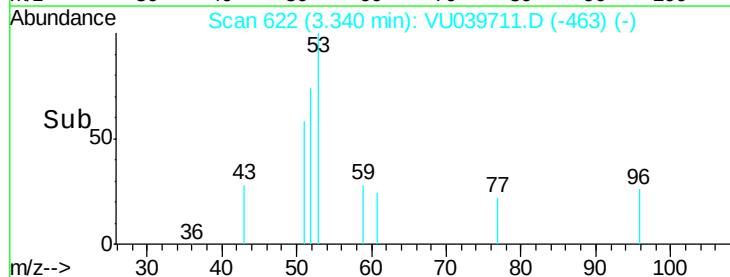
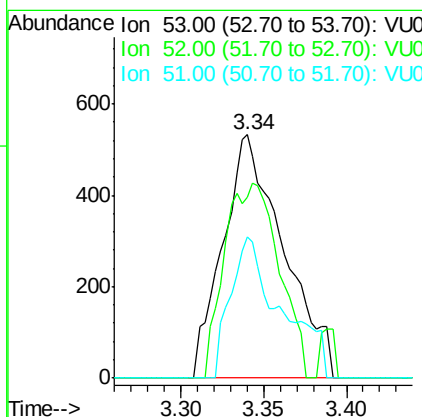
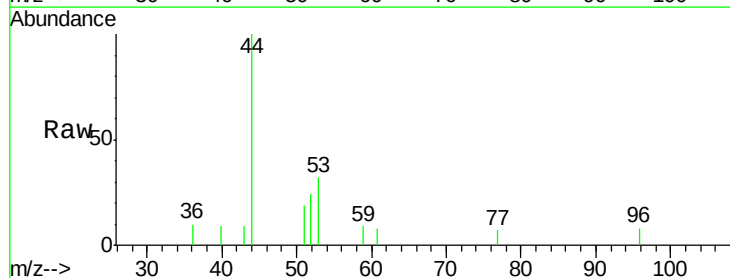
Manual Integrations
APPROVED

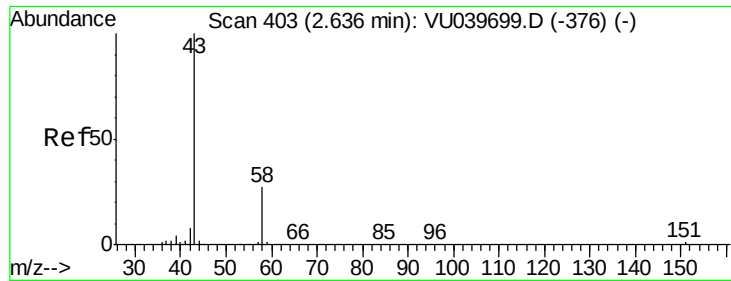
MMDadoda
7/31/2020 3:42:04 PM



#12
Acrylonitrile
Concen: 0.692 ug/l
RT: 3.34 min Scan# 622
Delta R.T. 0.01 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion: 53 Resp: 1359
Ion Ratio Lower Upper
53 100
52 71.7 69.1 103.7
51 48.4 29.4 44.2#





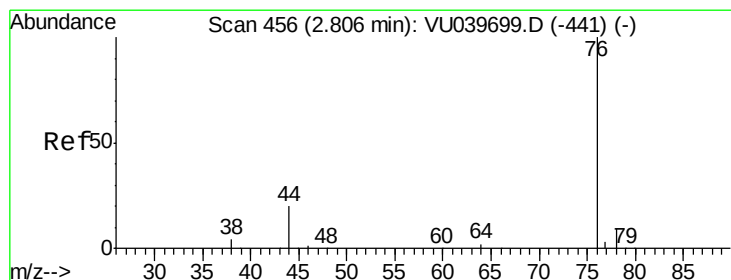
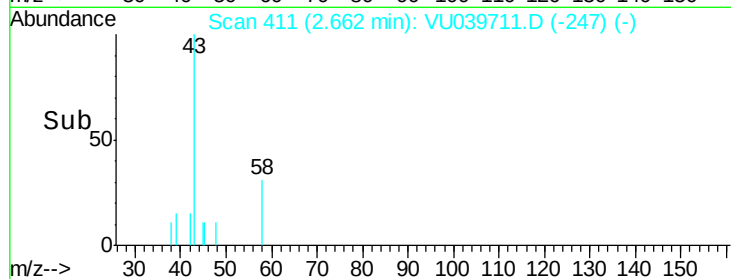
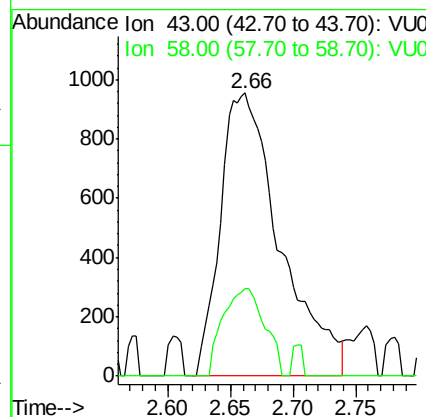
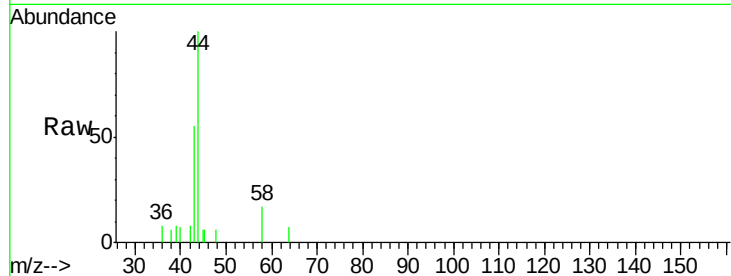
#13
Acetone
Concen: 1.712 ug/l
RT: 2.66 min Scan# 411
Delta R.T. 0.03 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion: 43 Resp: 3163
Ion Ratio Lower Upper
43 100
58 30.8 21.8 32.6

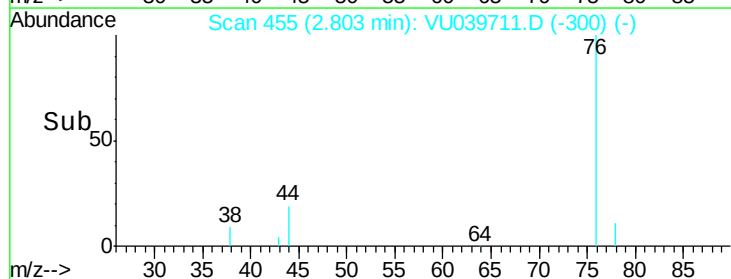
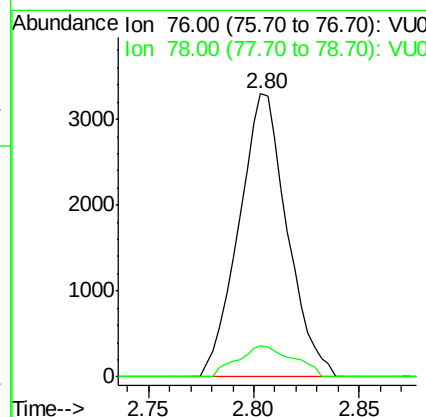
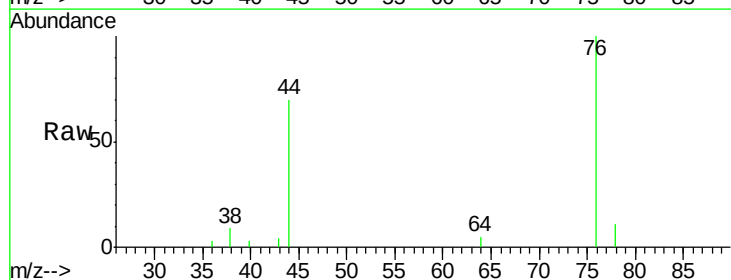
Manual Integrations
APPROVED

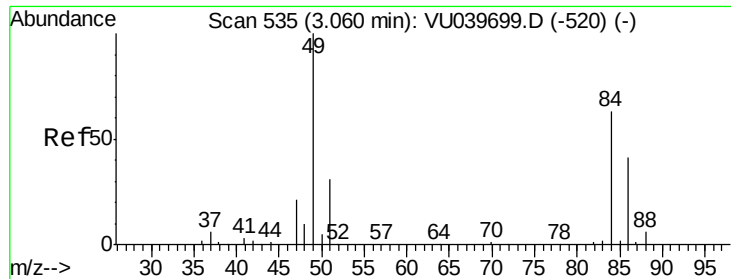
MMDadoda
7/31/2020 3:42:04 PM



#14
Carbon Disulfide
Concen: 0.255 ug/l
RT: 2.80 min Scan# 455
Delta R.T. -0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion: 76 Resp: 5241
Ion Ratio Lower Upper
76 100
78 11.2 7.0 10.6#





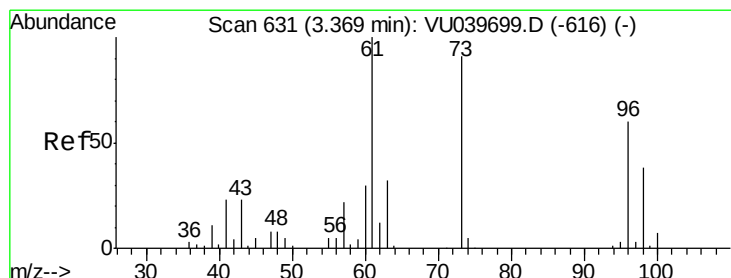
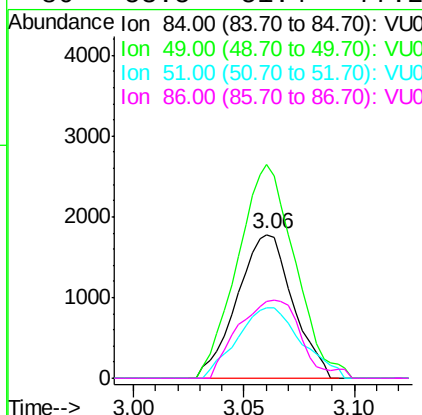
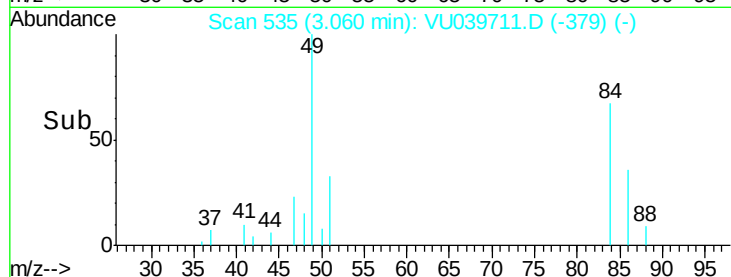
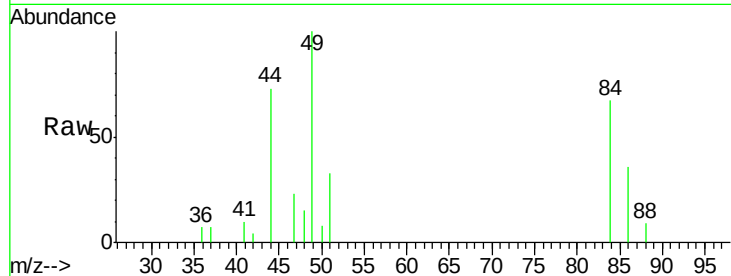
#15
Methylene Chloride
Concen: 0.398 ug/l
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	148.7	126.8	190.2	
51	49.4	0.0	97.2	
86	53.5	51.4	77.2	

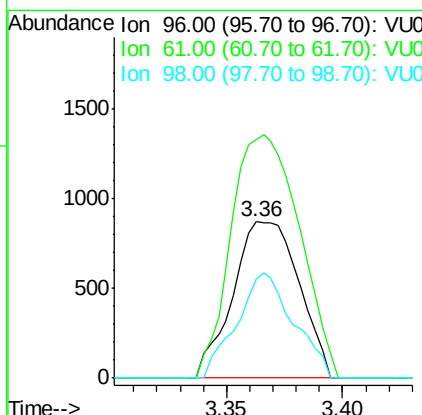
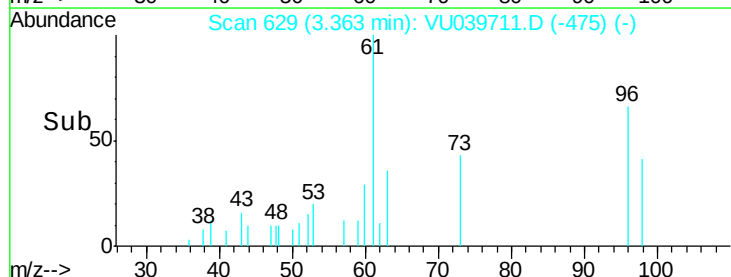
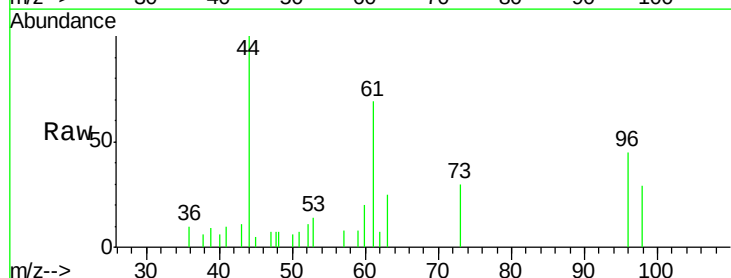
Manual Integrations
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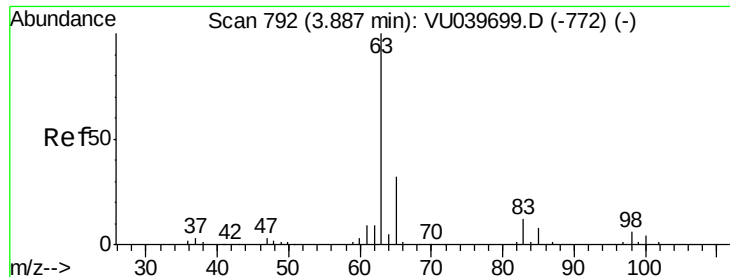
MMDadoda
7/31/2020 3:42:04 PM



#16
trans-1,2-Dichloroethene
Concen: 0.271 ug/l
RT: 3.36 min Scan# 629
Delta R.T. -0.01 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ion	Ratio	Lower	Upper
96	100			
61	152.2	132.6	199.0	
98	63.2	50.2	75.2	





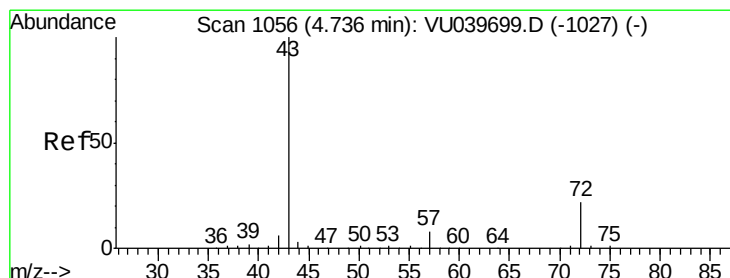
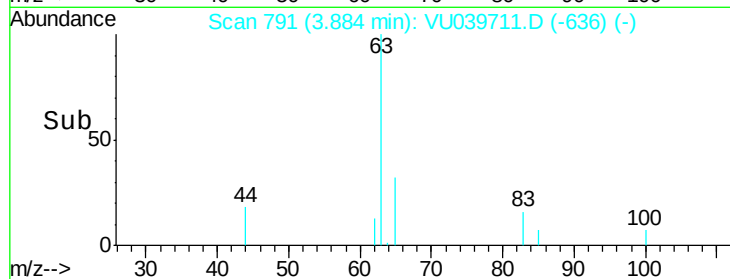
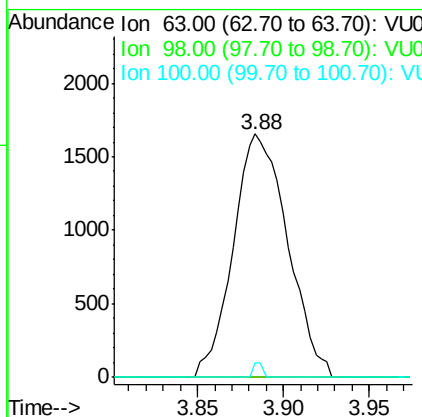
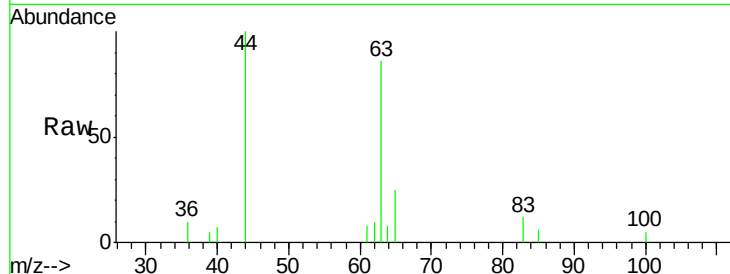
#17
 1,1-Dichloroethane
 Concen: 0.260 ug/l
 RT: 3.88 min Scan# 791
 Delta R.T. -0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.9	8.7#
100	6.2	2.0	6.0#

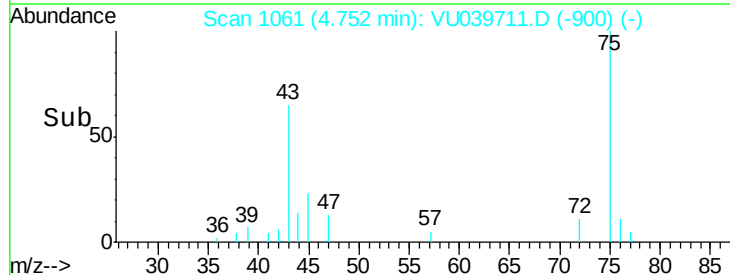
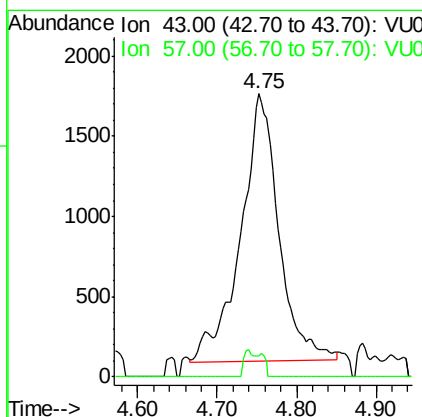
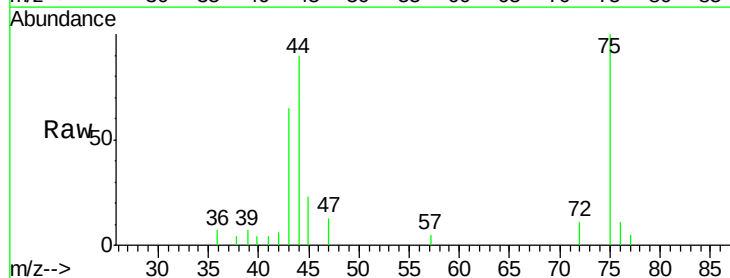
Manual Integrations
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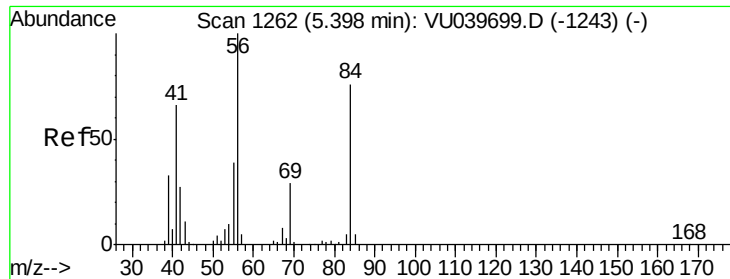
MMDadoda
 7/31/2020 3:42:04 PM



#18
 2-Butanone
 Concen: 1.837 ug/l m
 RT: 4.75 min Scan# 1061
 Delta R.T. 0.02 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.5	0.0	15.2





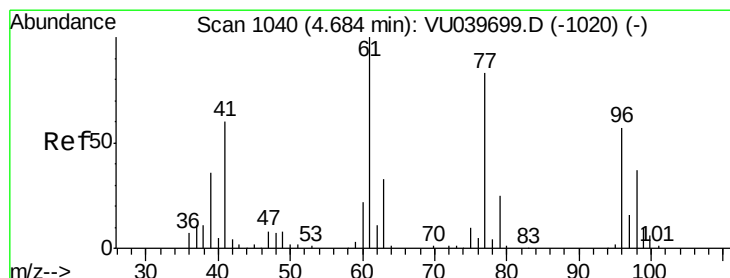
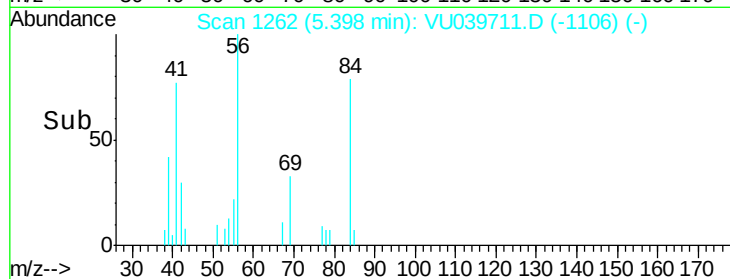
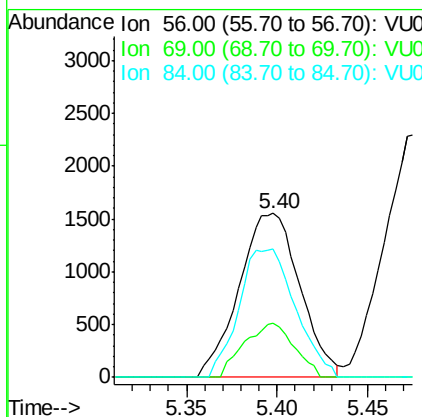
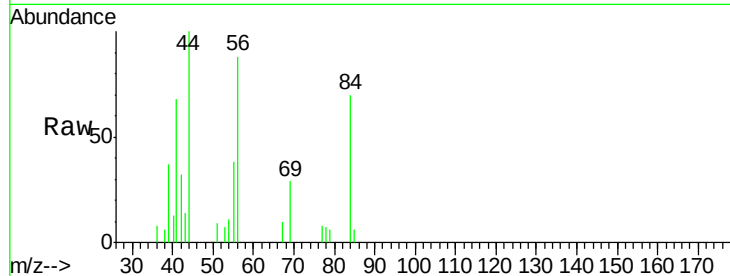
#19
Cyclohexane
Concen: 0.267 ug/l m
RT: 5.40 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.2	22.8	34.2
84	72.7	59.9	89.9

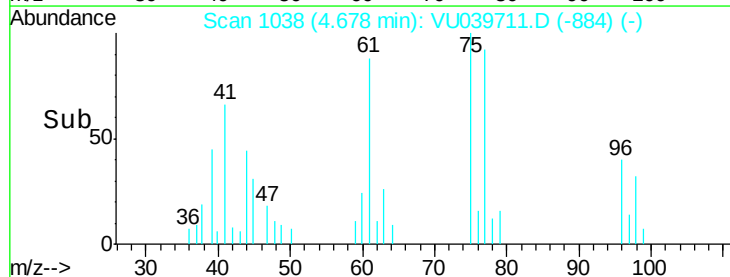
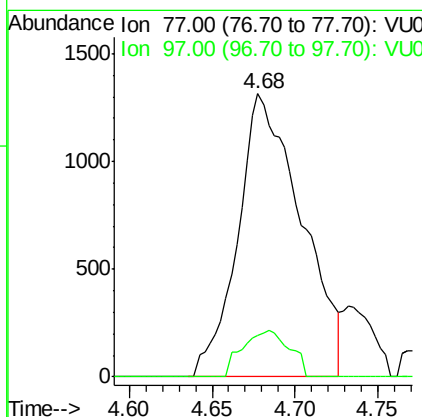
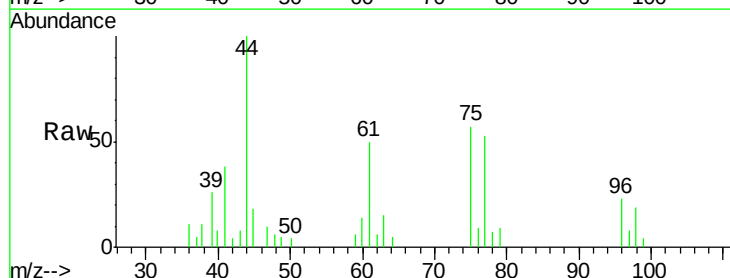
Manual Integrations
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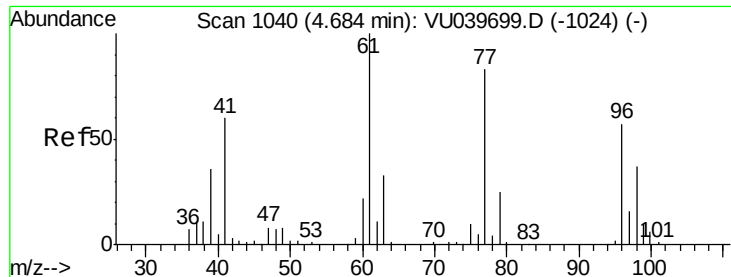
MMDadoda
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#21
2,2-Dichloropropane
Concen: 0.308 ug/l
RT: 4.68 min Scan# 1038
Delta R.T. -0.01 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
77	100		
97	12.1	15.2	22.8#





#22

cis-1,2-Dichloroethene

Concen: 0.236 ug/l

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

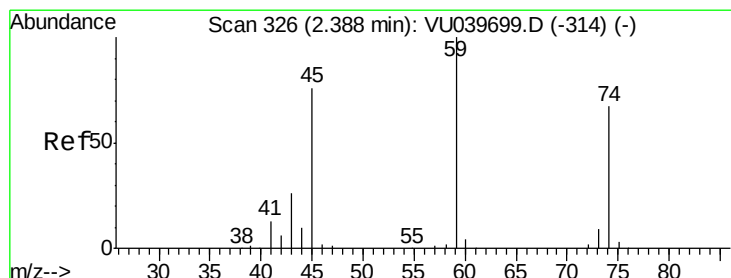
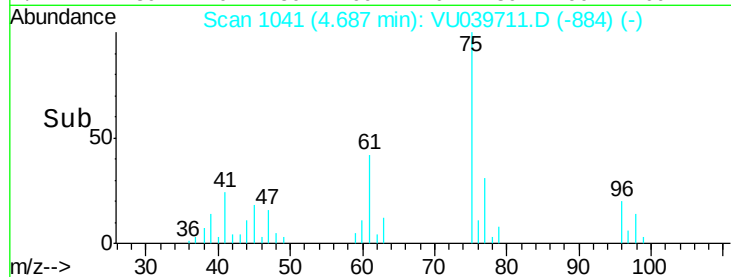
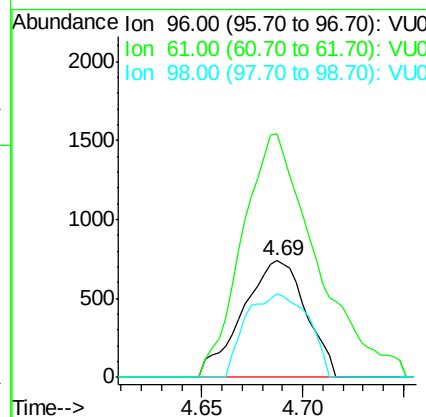
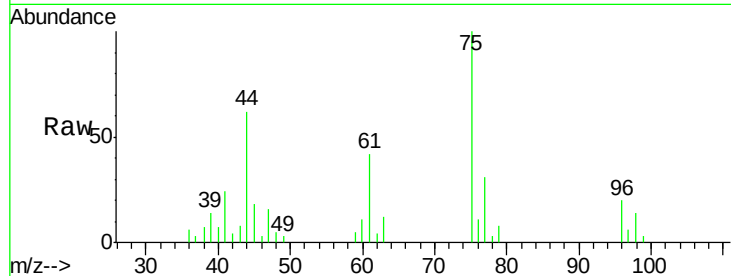
ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion:	96	Resp:	1617
Ion	Ratio	Lower	Upper
96	100		
61	244.2	0.0	451.3
98	70.3	32.6	98.0

Manual Integrations
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#23

Diethyl Ether

Concen: 0.282 ug/l

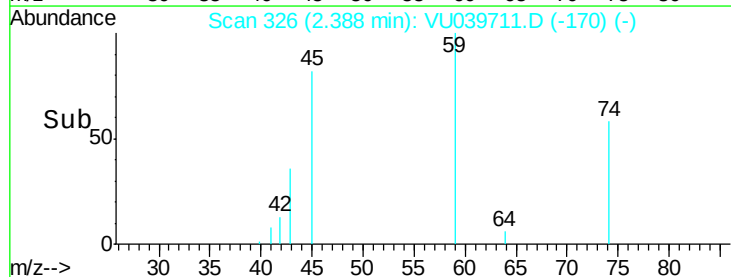
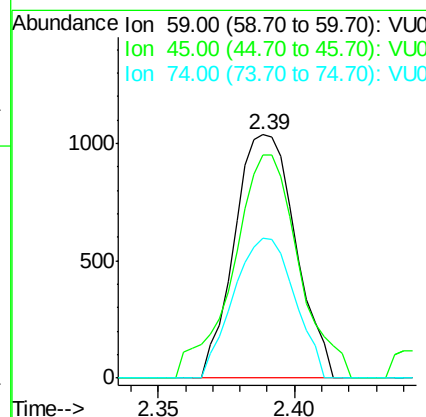
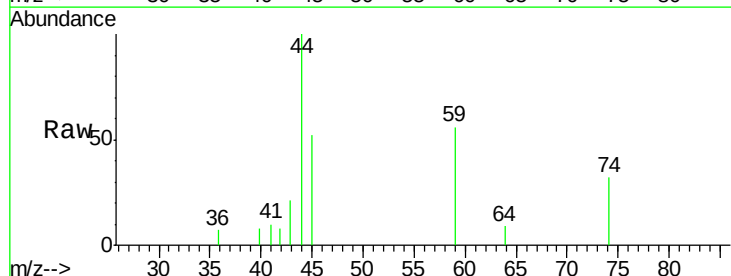
RT: 2.39 min Scan# 326

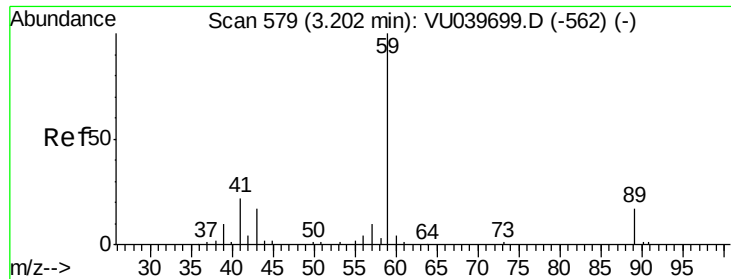
Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Tgt Ion:	59	Resp:	1611
Ion	Ratio	Lower	Upper
59	100		
45	98.6	61.5	92.3#
74	57.2	54.3	81.5





#24

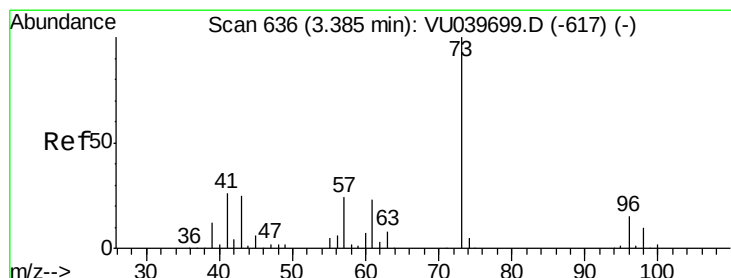
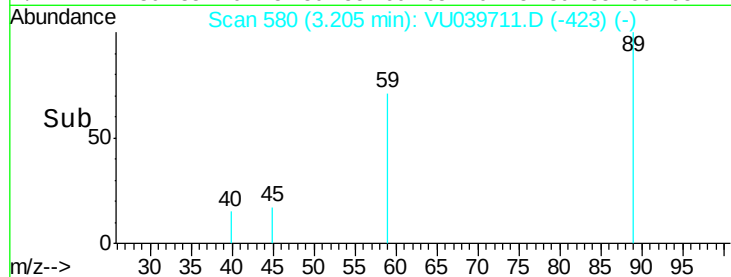
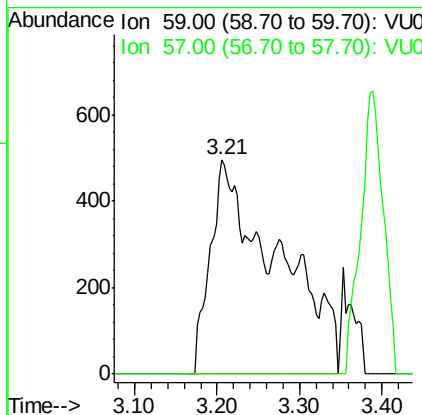
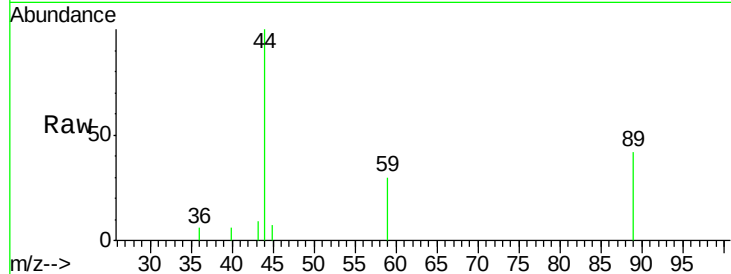
tert-Butyl Alcohol
 Concen: 2.731 ug/l m
 RT: 3.21 min Scan# 580
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion: 59 Resp: 2783
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

Manual Integrations
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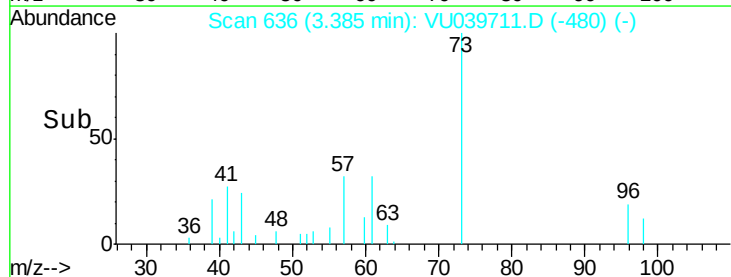
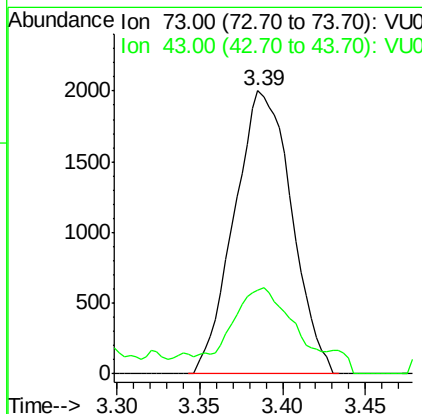
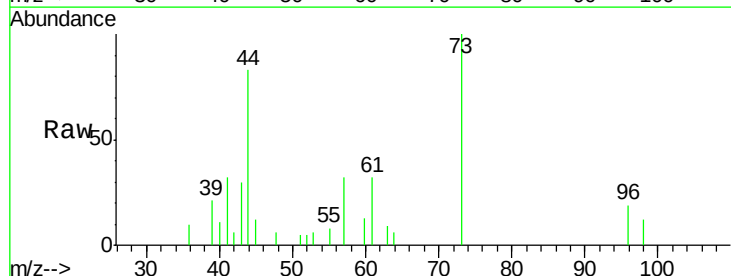
MMDadoda
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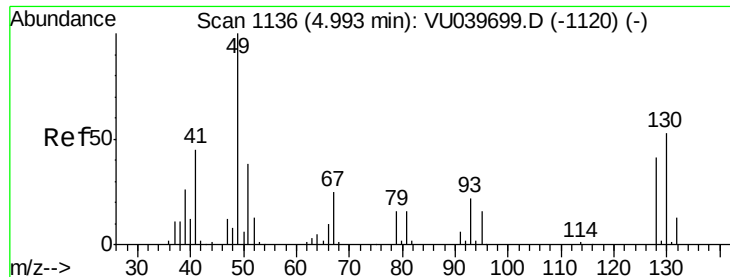


#25

Methyl tert-Butyl Ether
 Concen: 0.264 ug/l
 RT: 3.39 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion: 73 Resp: 4811
 Ion Ratio Lower Upper
 73 100
 43 20.5 20.1 30.1





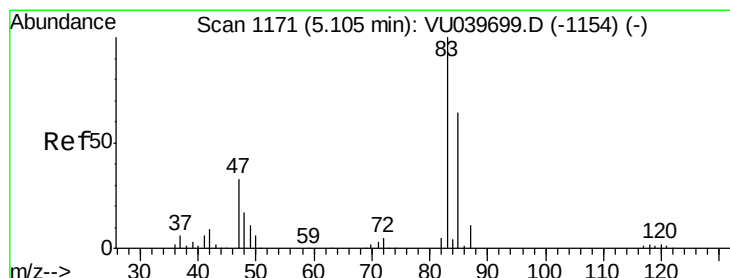
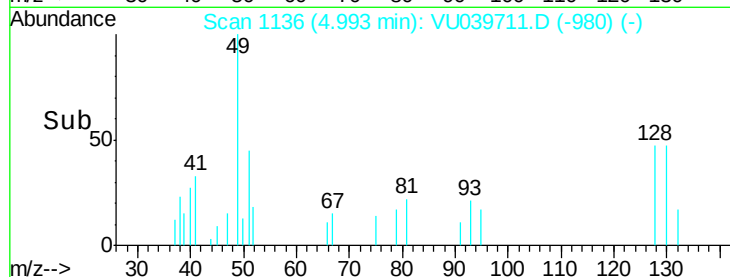
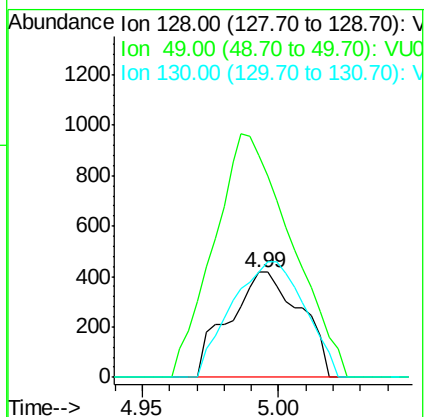
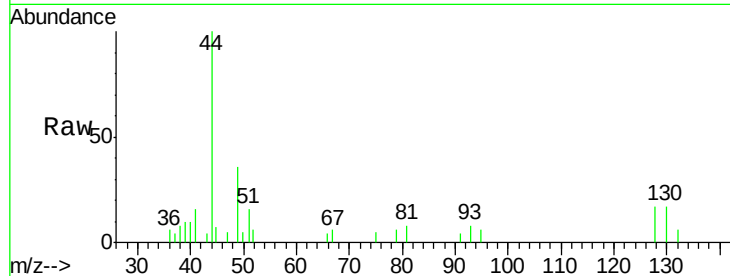
#26
Bromochloromethane
Concen: 0.269 ug/l
RT: 4.99 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion:128 Resp: 756
Ion Ratio Lower Upper
128 100
49 250.9 0.0 503.8
130 113.0 102.7 154.1

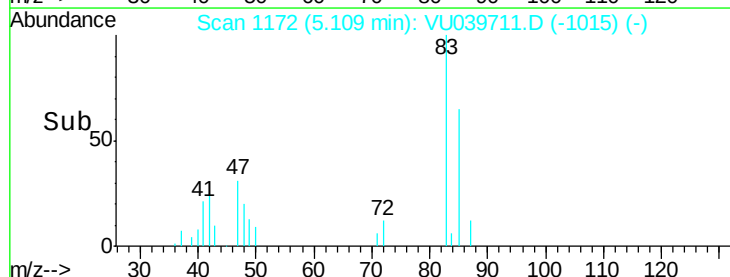
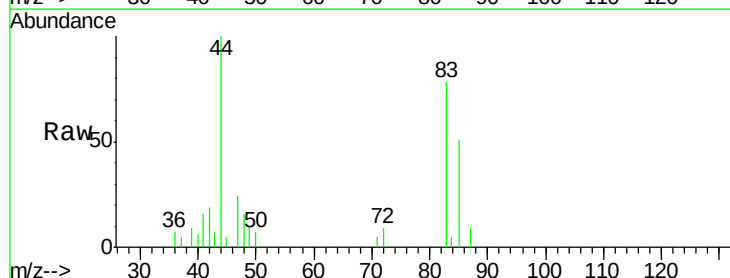
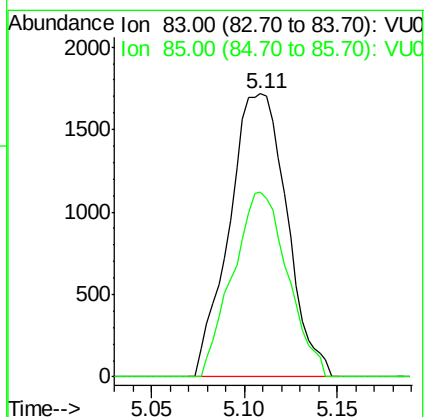
Manual Integrations
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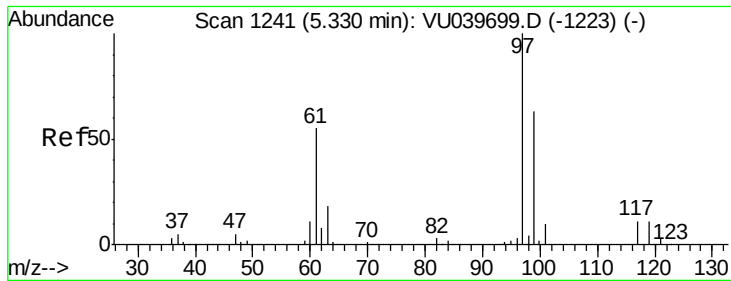
MMDadoda
7/31/2020 3:42:04 PM



#27
Chloroform
Concen: 0.283 ug/l
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion: 83 Resp: 3703
Ion Ratio Lower Upper
83 100
85 65.1 0.0 128.8





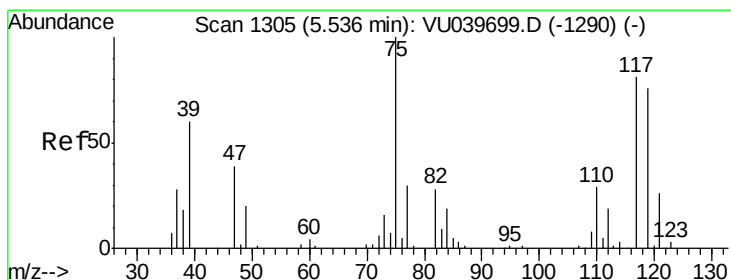
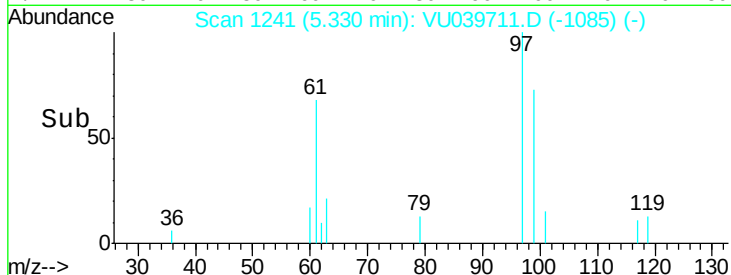
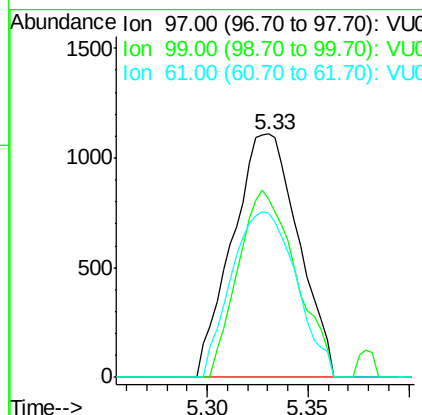
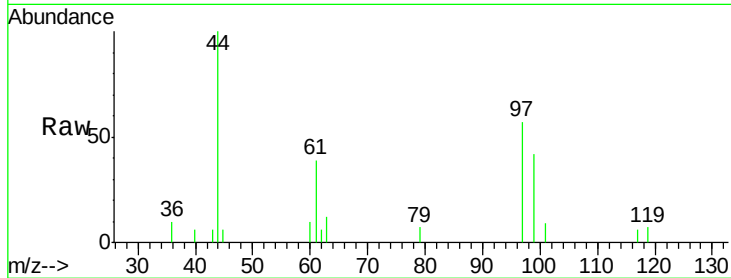
#28
 1,1,1-Trichloroethane
 Concen: 0.239 ug/l
 RT: 5.33 min Scan# 1241
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
97	100		
99	67.7	32.2	96.6
61	66.9	28.3	85.0

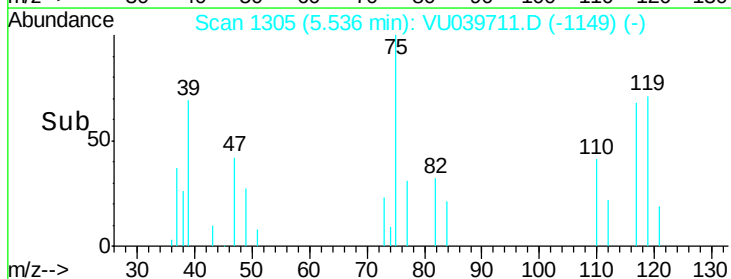
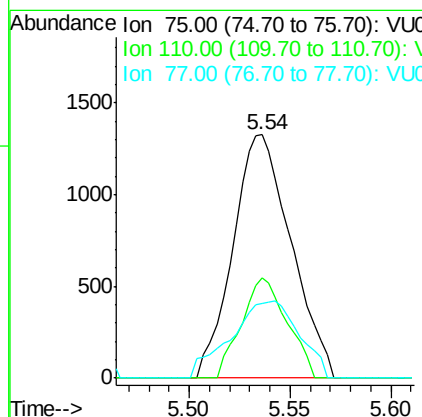
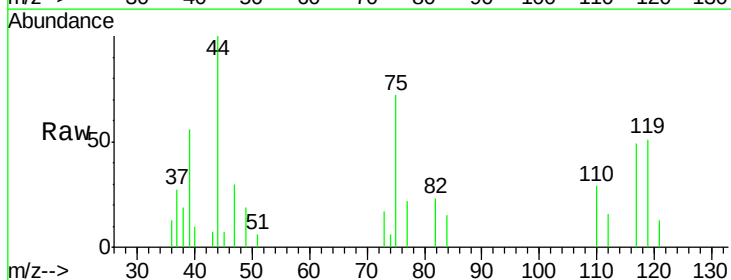
Manual Integrations
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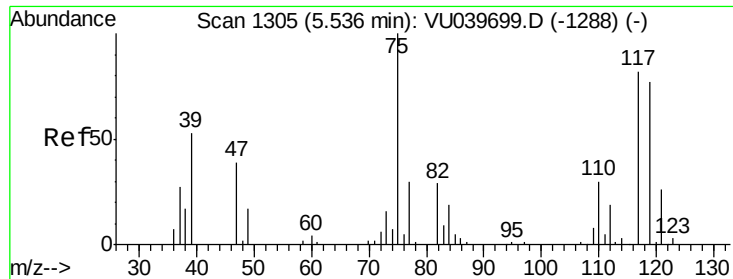
MMDadoda
 7/31/2020 3:42:04 PM



#29
 1,1-Dichloropropene
 Concen: 0.261 ug/l
 RT: 5.54 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.5	14.6	44.0
77	37.2	25.0	37.4





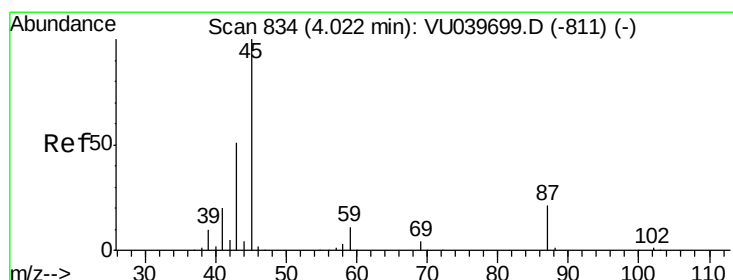
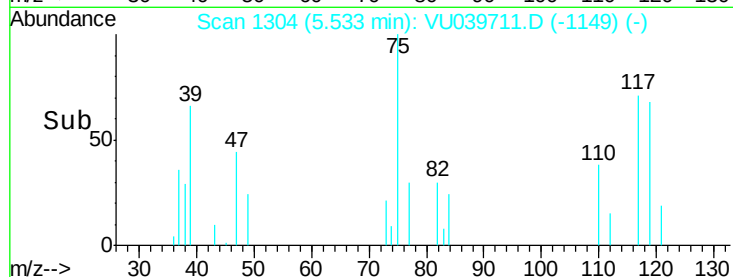
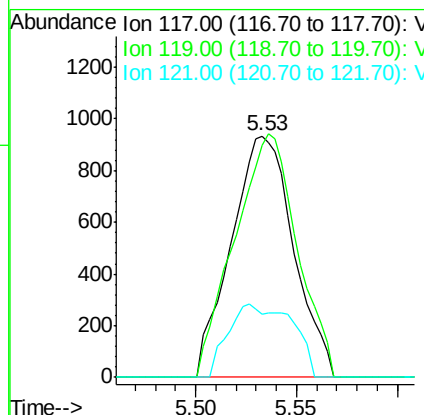
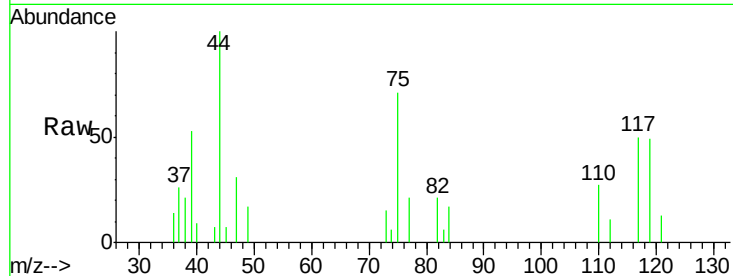
#30
Carbon Tetrachloride
Concen: 0.232 ug/l
RT: 5.53 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion:117 Resp: 2010
Ion Ratio Lower Upper
117 100
119 96.3 75.2 112.8
121 26.3 25.4 38.2

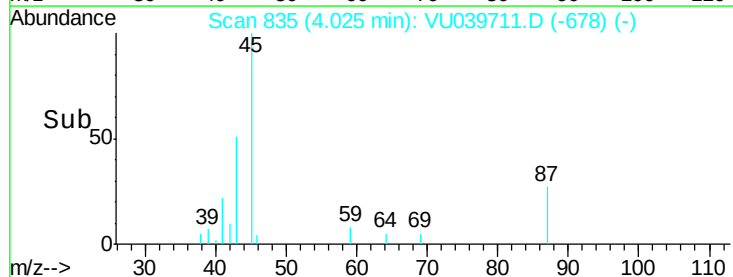
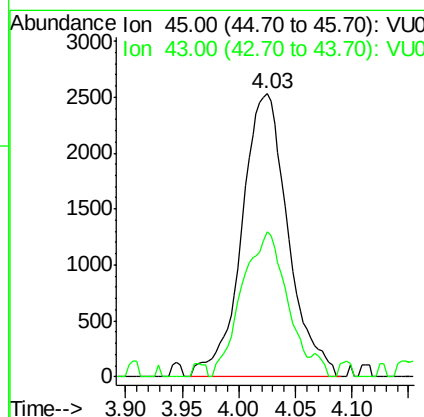
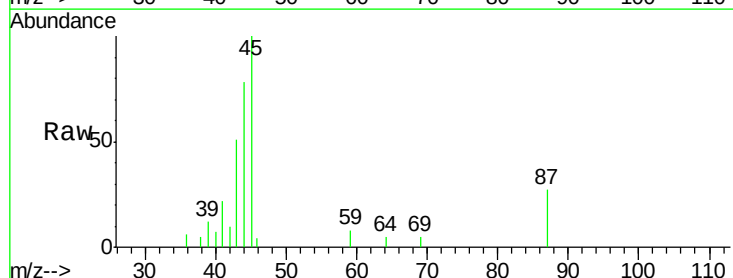
Manual Integrations
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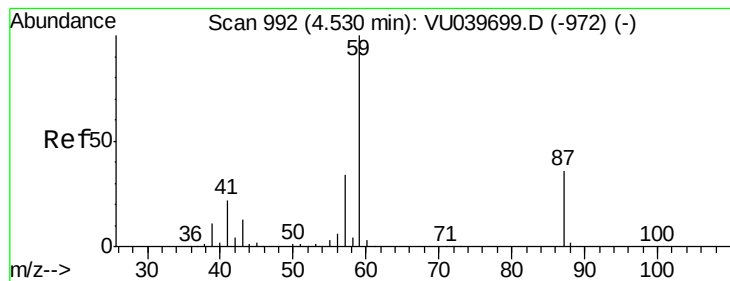
MMDadoda
7/31/2020 3:42:04 PM



#31
Isopropyl Ether
Concen: 0.282 ug/l
RT: 4.03 min Scan# 835
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion: 45 Resp: 7196
Ion Ratio Lower Upper
45 100
43 49.5 26.5 79.4





#32

Ethyl-t-butyl ether

Concen: 0.253 ug/l

RT: 4.53 min Scan# 992

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion: 59 Resp: 5483

Ion Ratio Lower Upper

59 100

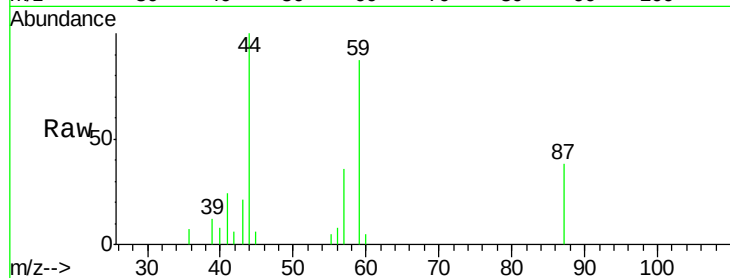
87 35.1 29.4 44.0

Manual Integrations

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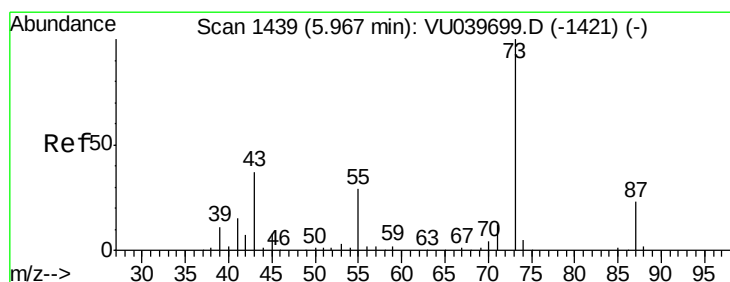
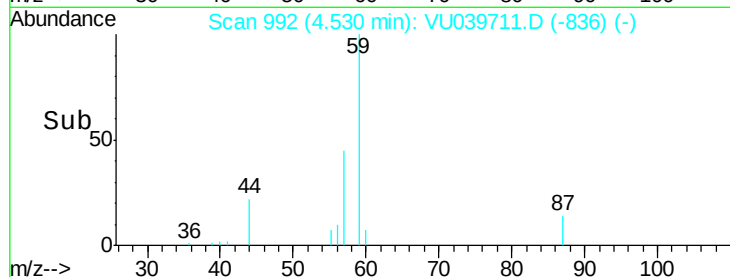
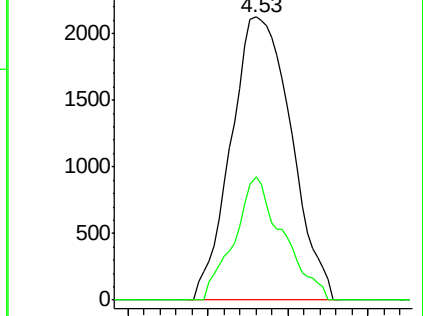
MMDadoda

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Abundance Ion 59.00 (58.70 to 59.70): VU039699.D (-972) (-)

Ion 87.00 (86.70 to 87.70): VU039699.D (-972) (-)



#33

Tert-Amyl methyl ether

Concen: 0.225 ug/l

RT: 5.97 min Scan# 1439

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

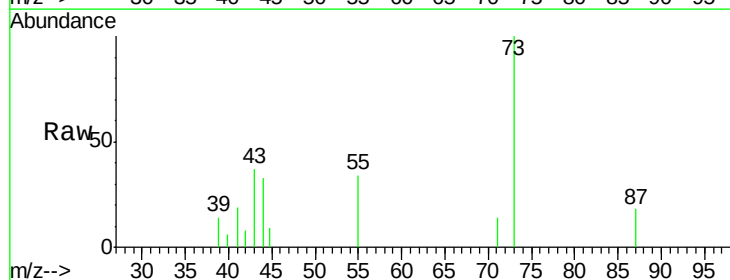
Tgt Ion: 73 Resp: 3524

Ion Ratio Lower Upper

73 100

87 11.1 18.7 28.1#

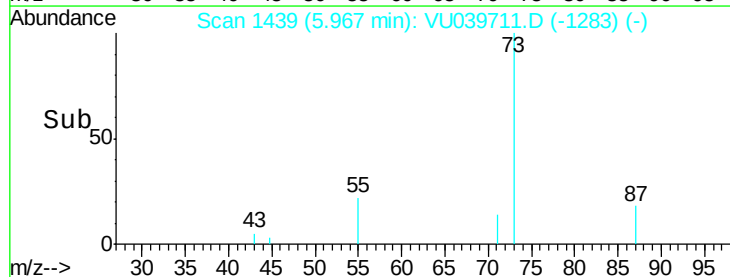
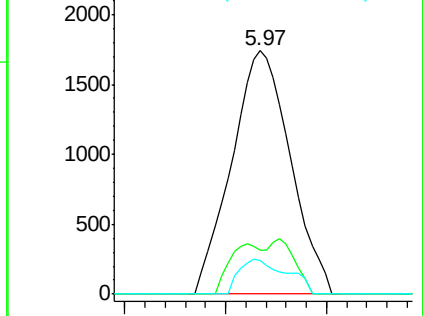
71 11.7 9.1 13.7

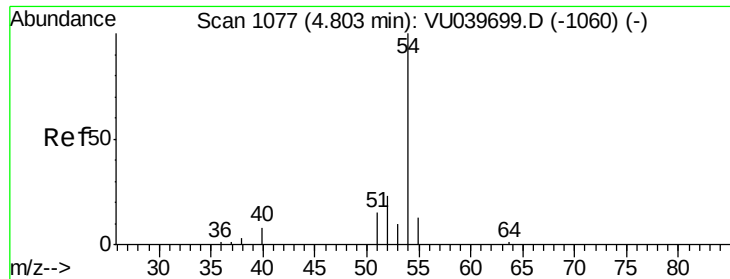


Abundance Ion 73.00 (72.70 to 73.70): VU039699.D (-1421) (-)

Ion 87.00 (86.70 to 87.70): VU039699.D (-1421) (-)

Ion 71.00 (70.70 to 71.70): VU039699.D (-1421) (-)





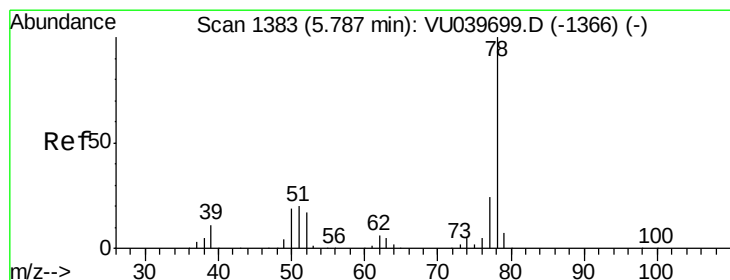
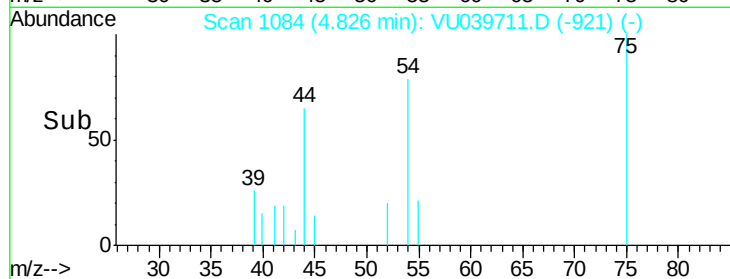
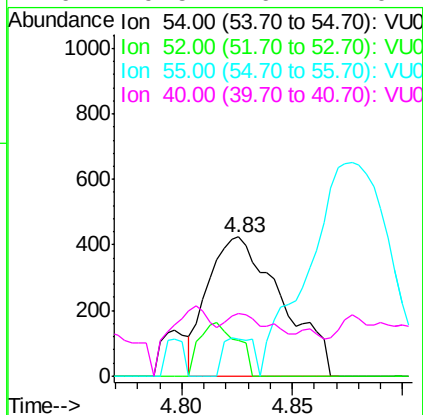
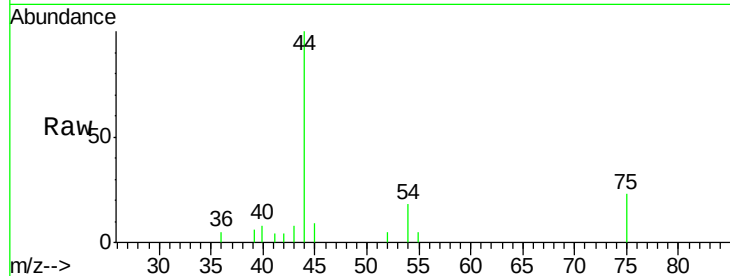
#34
 Propionitrile
 Concen: 1.284 ug/l
 RT: 4.83 min Scan# 1084
 Delta R.T. 0.02 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion:	54	Resp:	984
Ion	Ratio	Lower	Upper
54	100		
52	19.7	16.9	25.3
55	11.0	12.9	19.3#
40	29.5	6.2	9.2#

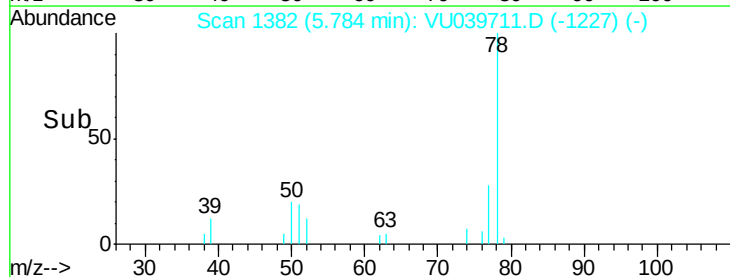
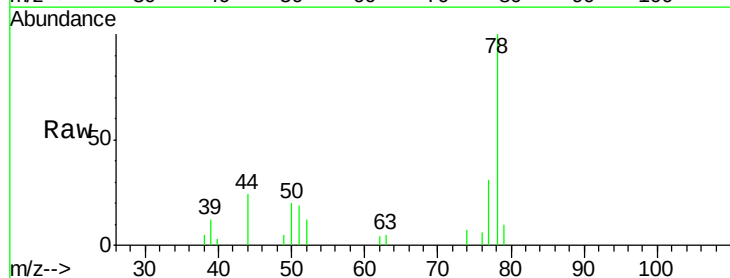
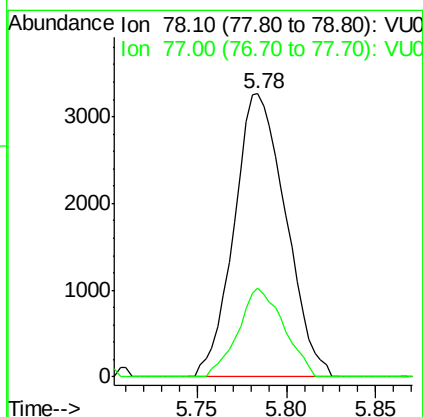
Manual Integrations
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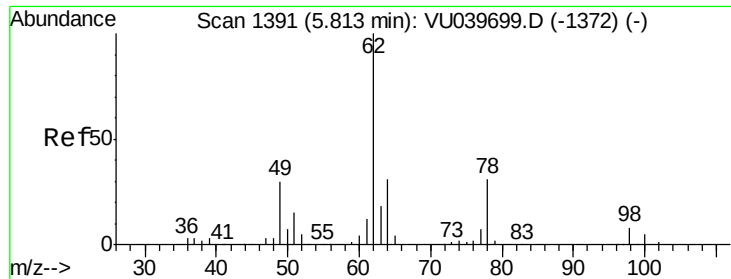
MMDadoda
 7/31/2020 3:42:04 PM



#35
 Benzene
 Concen: 0.261 ug/l
 RT: 5.78 min Scan# 1382
 Delta R.T. -0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion:	78	Resp:	6581
Ion	Ratio	Lower	Upper
78	100		
77	31.3	19.2	28.8#





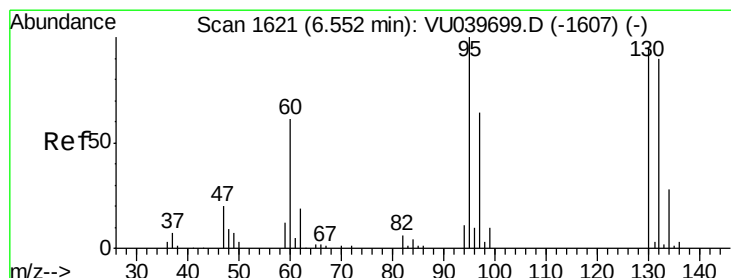
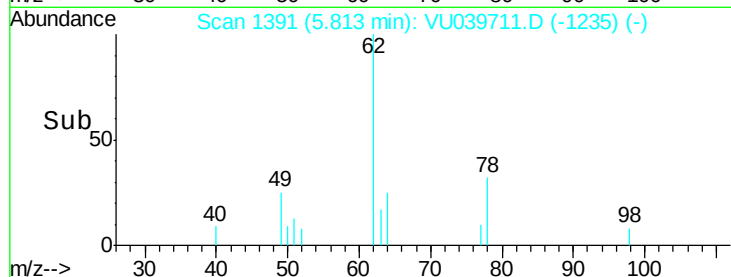
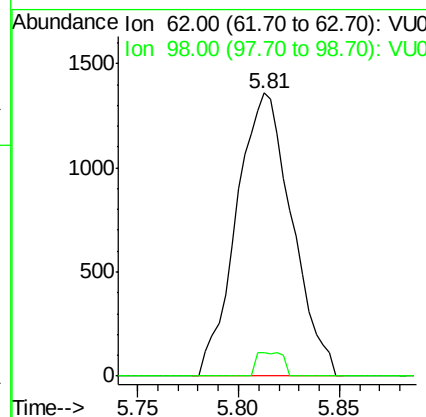
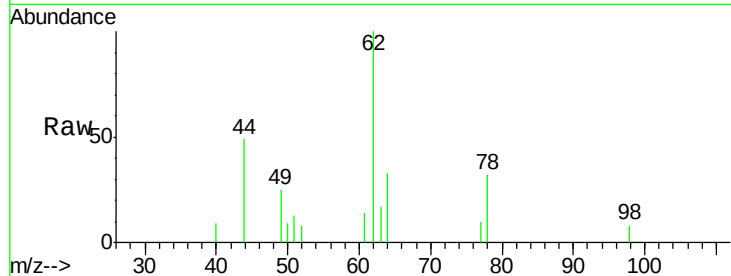
#36
 1,2-Dichloroethane
 Concen: 0.276 ug/l
 RT: 5.81 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion: 62 Resp: 2609
 Ion Ratio Lower Upper
 62 100
 98 4.0 6.2 9.2#

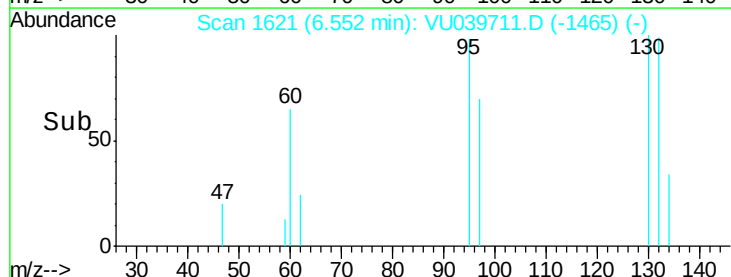
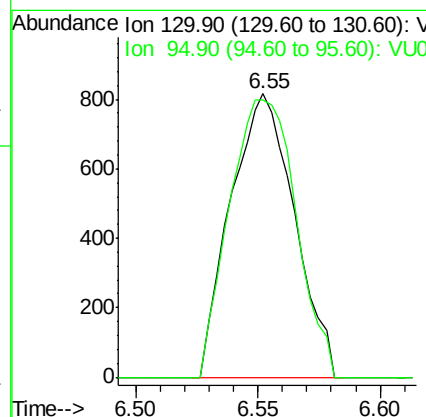
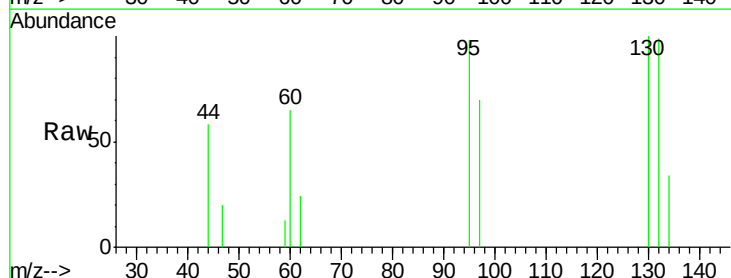
Manual Integrations
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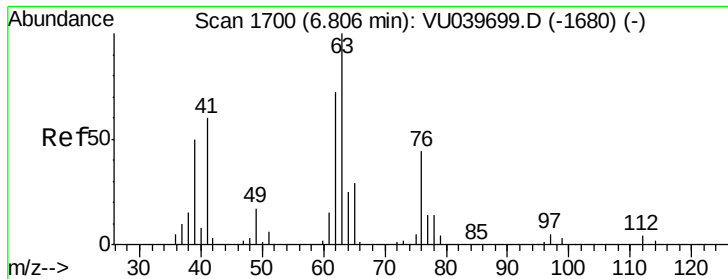
MMDadoda
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#37
 Trichloroethene
 Concen: 0.256 ug/l
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion:130 Resp: 1476
 Ion Ratio Lower Upper
 130 100
 95 97.9 84.3 126.5





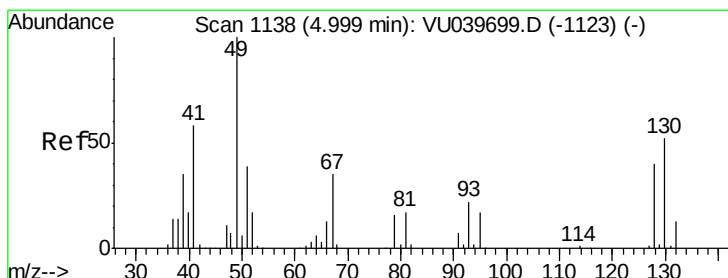
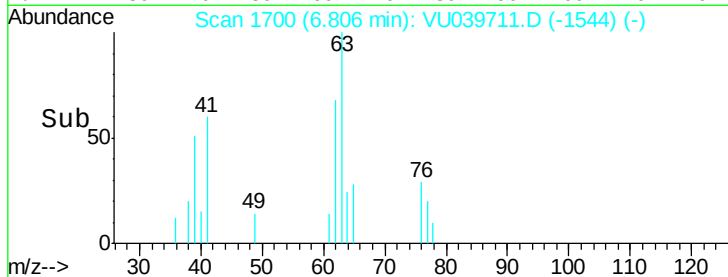
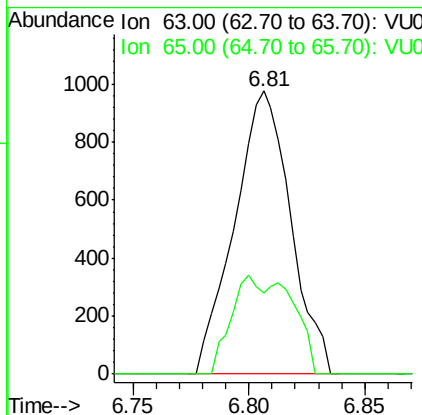
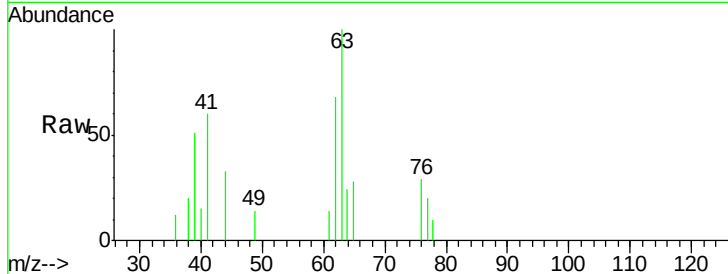
#38
 1,2-Dichloropropane
 Concen: 0.236 ug/l
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion: 63 Resp: 1641
 Ion Ratio Lower Upper
 63 100
 65 28.5 23.8 35.6

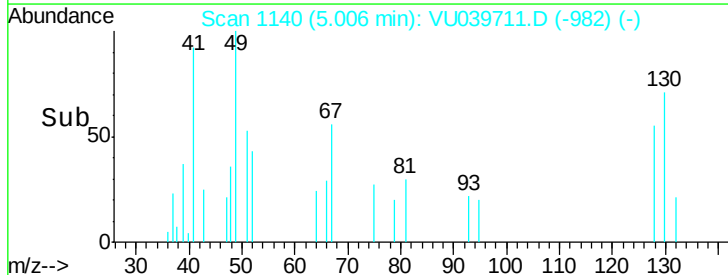
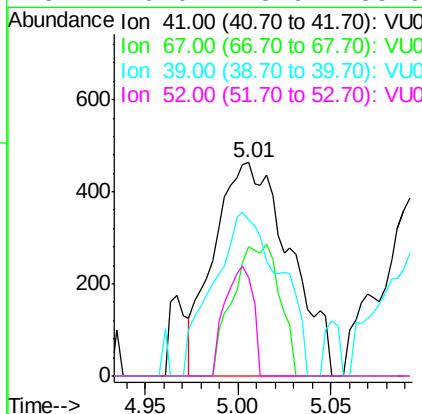
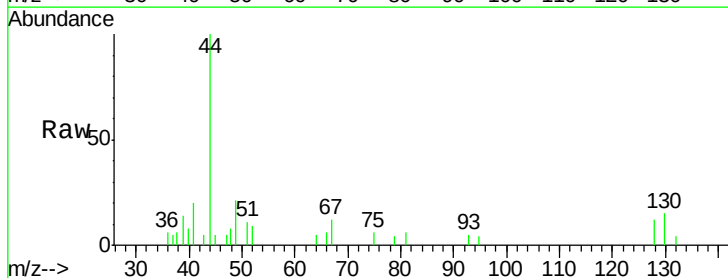
Manual Integrations
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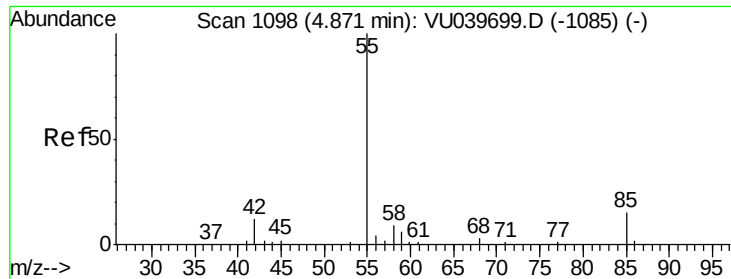
MMDadoda
 7/31/2020 3:42:04 PM



#39
 Methacrylonitrile
 Concen: 0.326 ug/l
 RT: 5.01 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion: 41 Resp: 1316
 Ion Ratio Lower Upper
 41 100
 67 38.3 48.3 72.5#
 39 67.7 47.6 71.4
 52 0.0 23.9 35.9#





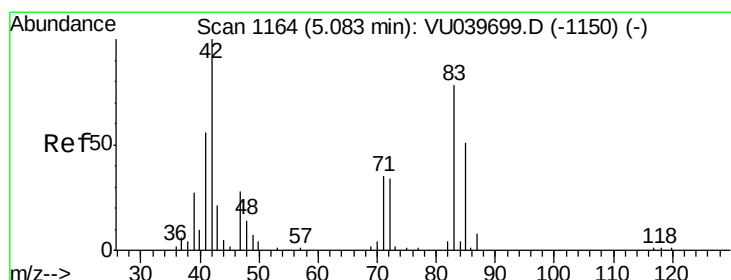
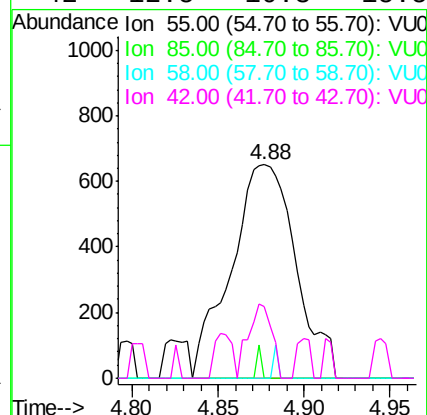
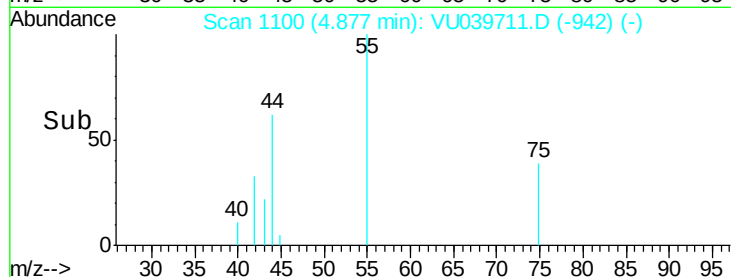
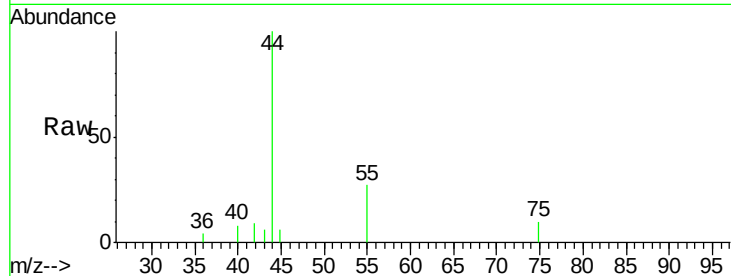
#40
Methvl acrylate
Concen: 0.330 ug/l
RT: 4.88 min Scan# 1100
Delta R.T. 0.01 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
55	100		
85	0.0	11.4	17.0#
58	1.2	7.4	11.0#
42	12.5	10.3	15.5

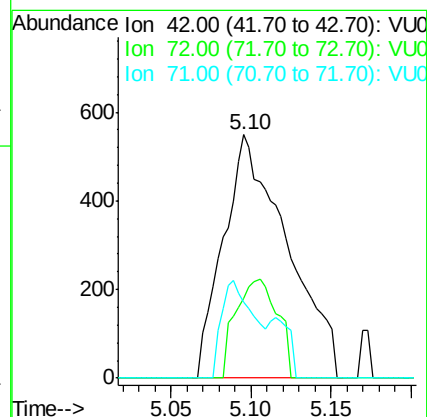
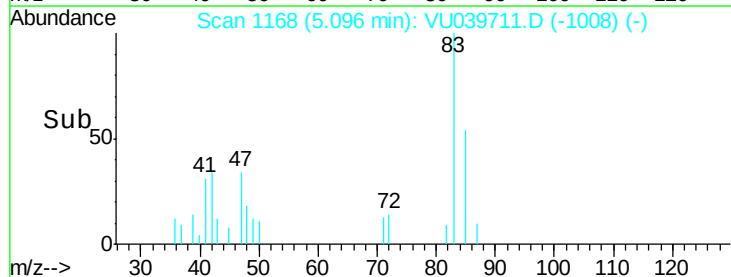
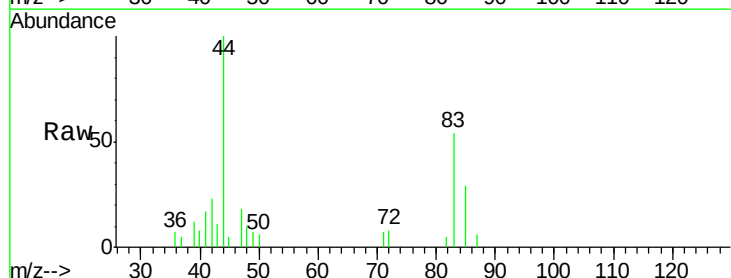
Manual Integrations
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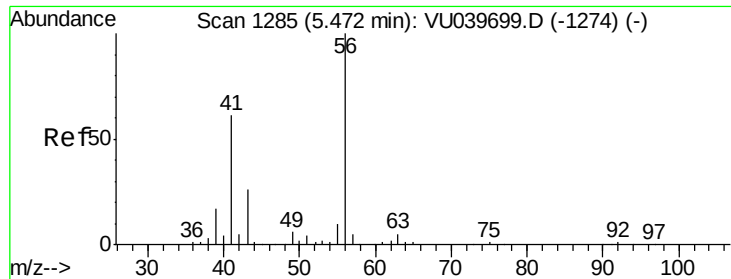
MMDadoda
7/31/2020 3:42:04 PM



#41
Tetrahydrofuran
Concen: 0.740 ug/l
RT: 5.10 min Scan# 1168
Delta R.T. 0.01 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
42	100		
72	26.3	31.0	46.6#
71	20.4	28.2	42.4#





#42

1-Chlorobutane

Concen: 0.264 ug/l

RT: 5.48 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion: 56 Resp: 4218

Ion Ratio Lower Upper

56 100

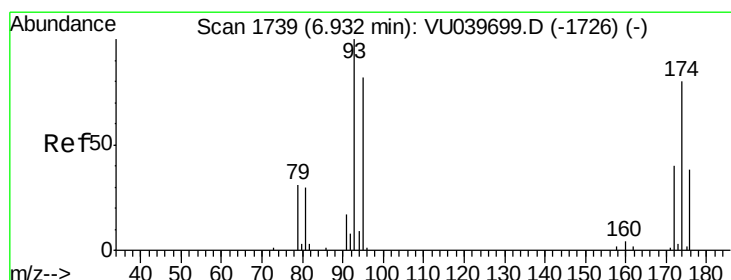
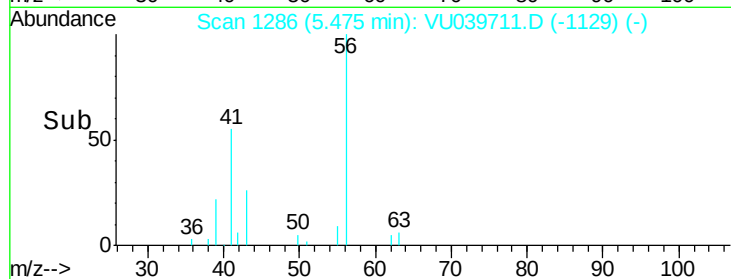
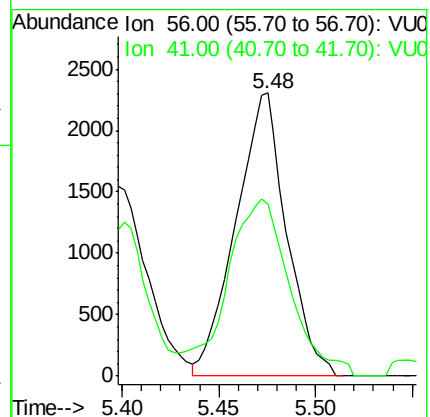
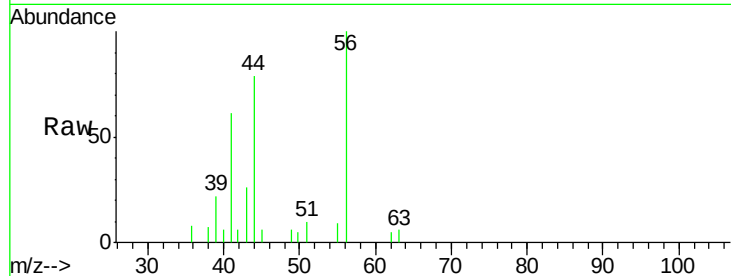
41 76.2 30.5 91.5

Manual Integrations

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#43

Dibromomethane

Concen: 0.218 ug/l

RT: 6.93 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

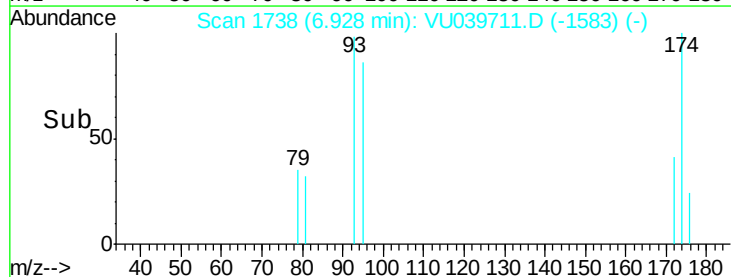
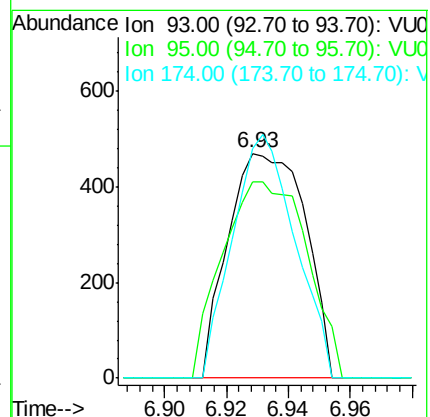
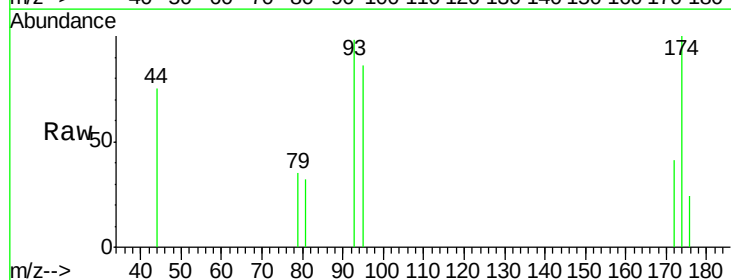
Tgt Ion: 93 Resp: 814

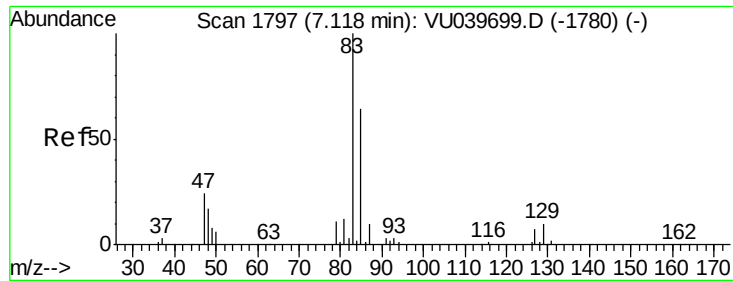
Ion Ratio Lower Upper

93 100

95 95.6 66.6 99.8

174 87.7 62.7 94.1





#44

Bromodichloromethane

Concen: 0.233 ug/l

RT: 7.11 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

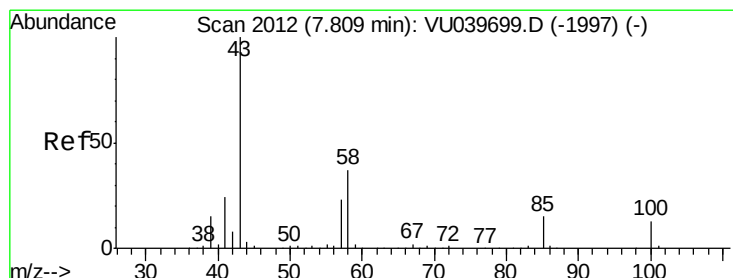
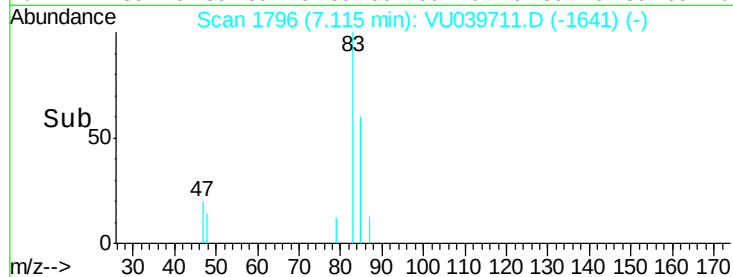
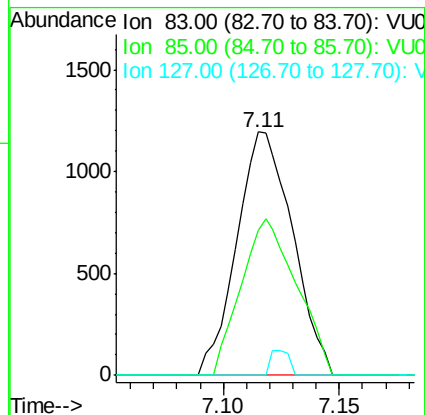
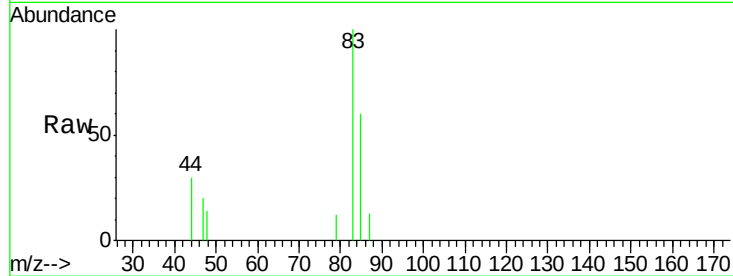
ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion:	83	Resp:	1998
Ion	Ratio	Lower	Upper
83	100		
85	59.8	50.8	76.2
127	0.0	5.8	8.6#

Manual Integrations
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#45

4-Methyl-2-Pentanone

Concen: 1.112 ug/l

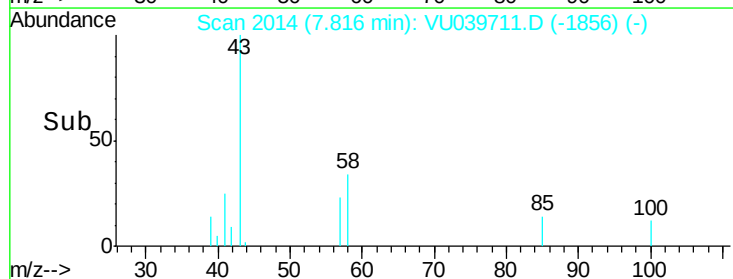
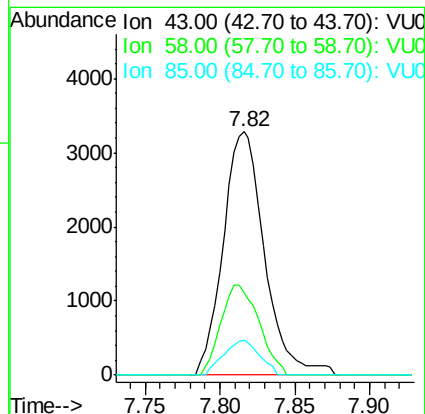
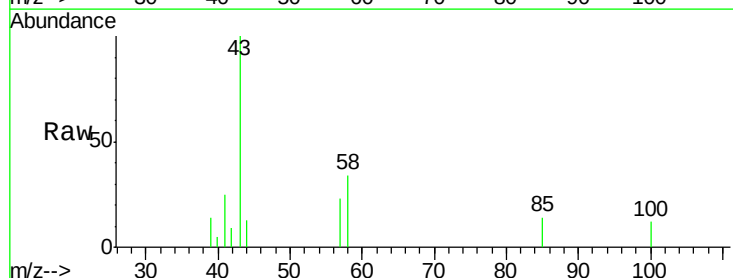
RT: 7.82 min Scan# 2014

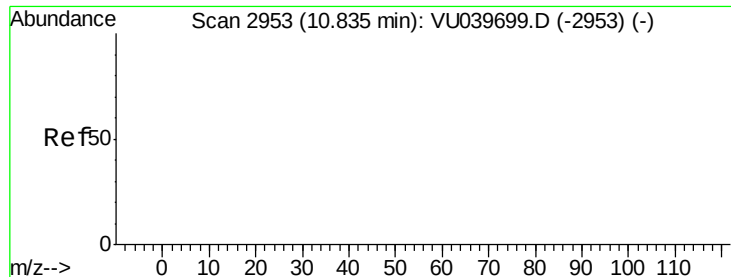
Delta R.T. 0.01 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Tgt Ion:	43	Resp:	6297
Ion	Ratio	Lower	Upper
43	100		
58	34.2	18.4	55.0
85	12.4	11.8	17.6





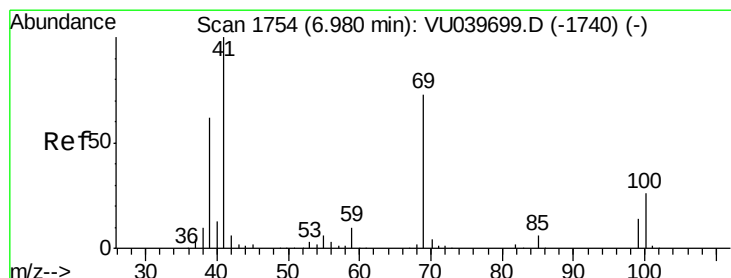
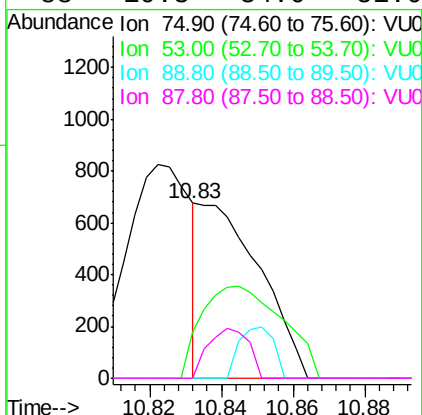
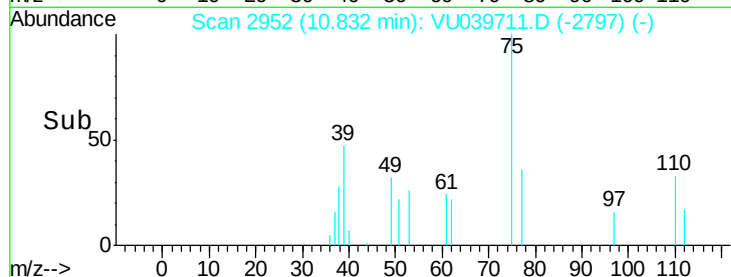
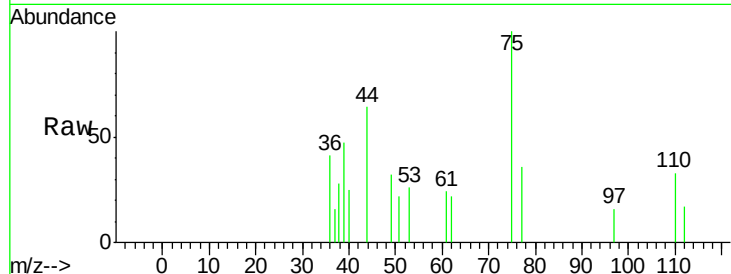
#46
t-1,4-Dichloro-2-butene
Concen: 0.466 ug/l m
RT: 10.83 min Scan# 2952
Delta R.T. -0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
75	100		
53	70.8	78.6	118.0#
89	16.7	40.3	60.5#
88	19.3	34.0	51.0#

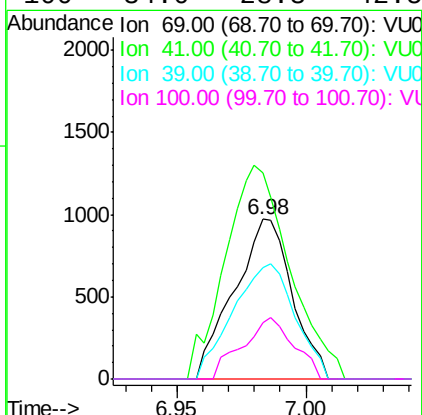
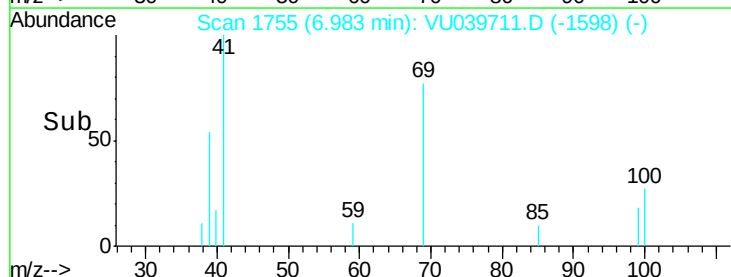
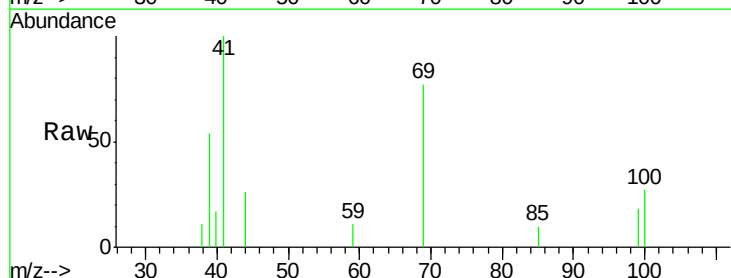
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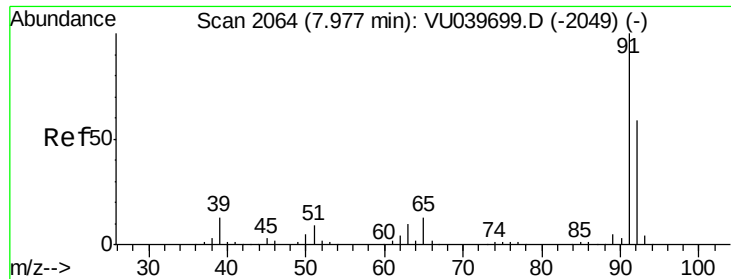
MMDadoda
7/31/2020 3:42:04 PM



#47
Methyl methacrylate
Concen: 0.438 ug/l
RT: 6.98 min Scan# 1755
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
69	100		
41	148.9	0.0	271.6
39	77.1	67.4	101.2
100	34.0	28.3	42.5





#49

Toluene

Concen: 0.209 ug/l

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion: 92 Resp: 3139

Ion Ratio Lower Upper

92 100

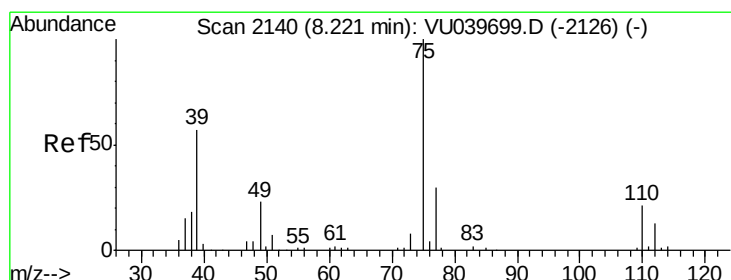
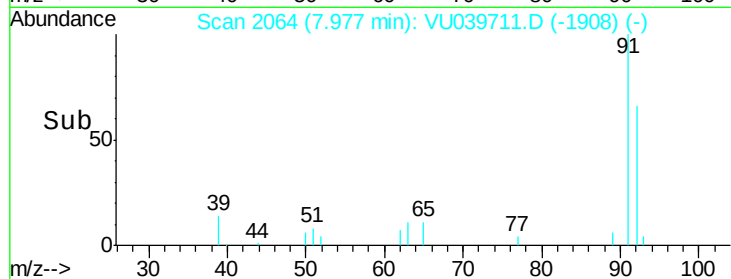
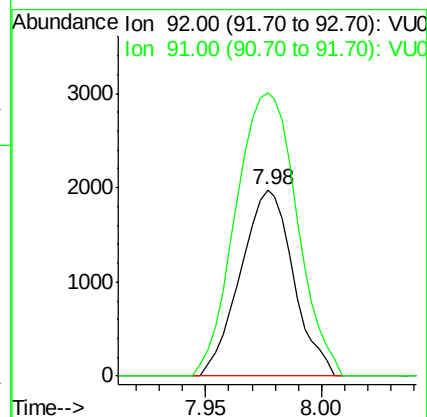
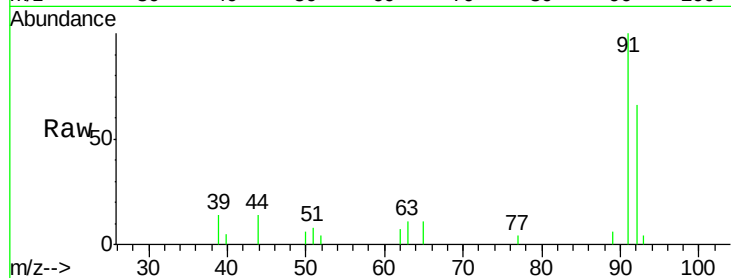
91 176.0 136.1 204.1

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#50

t-1,3-Dichloropropene

Concen: 0.202 ug/l

RT: 8.22 min Scan# 2141

Delta R.T. 0.00 min

Lab File: VU039711.D

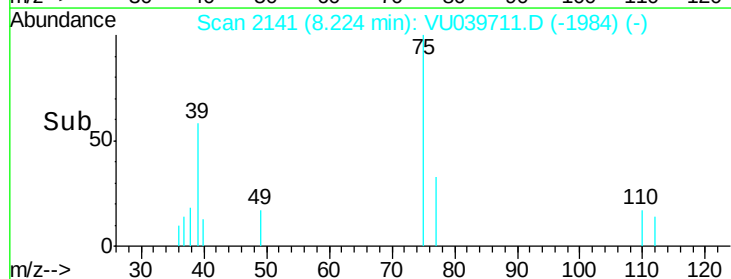
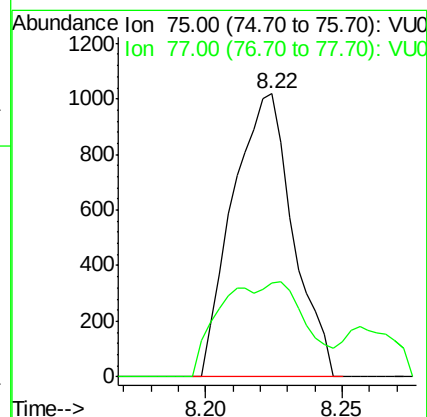
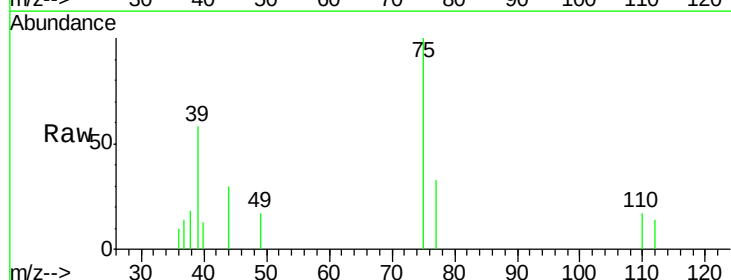
Acq: 29 Jul 2020 18:54

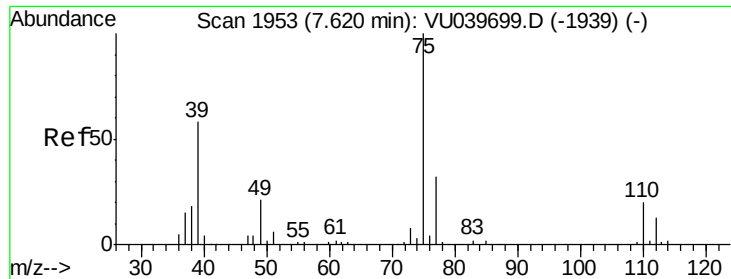
Tgt Ion: 75 Resp: 1558

Ion Ratio Lower Upper

75 100

77 33.2 24.3 36.5





#51

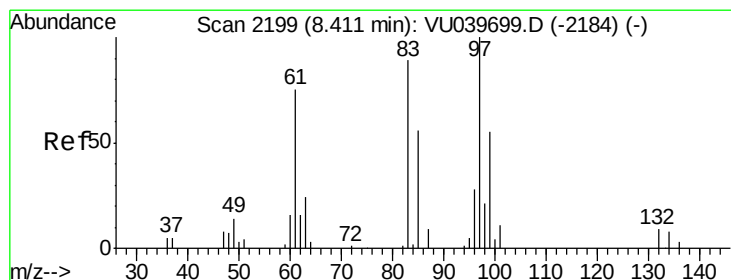
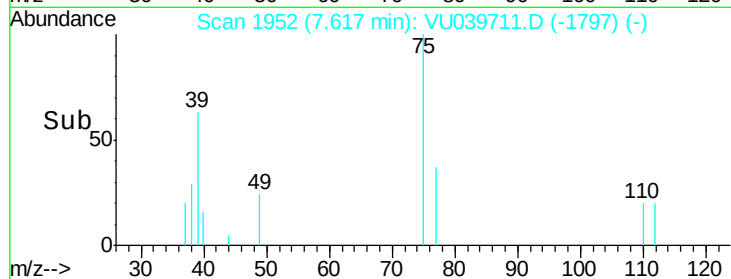
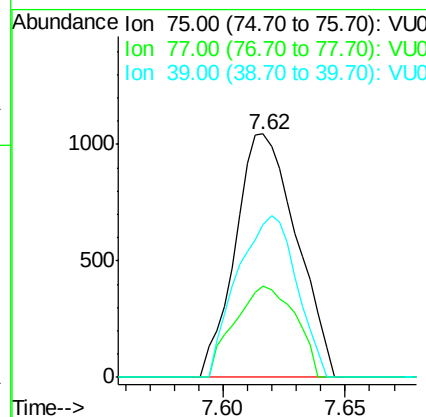
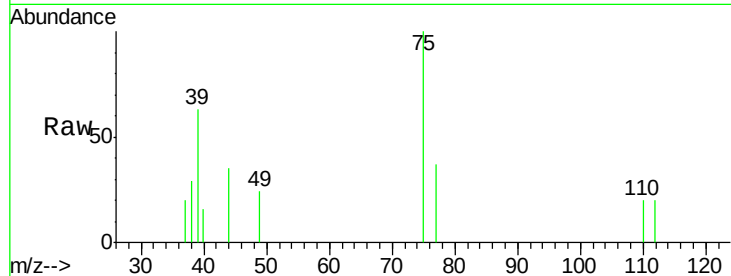
cis-1,3-Dichloropropene
Concen: 0.200 ug/l
RT: 7.62 min Scan# 1952
Delta R.T. -0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
75	100		
77	37.3	25.7	38.5
39	62.9	46.1	69.1

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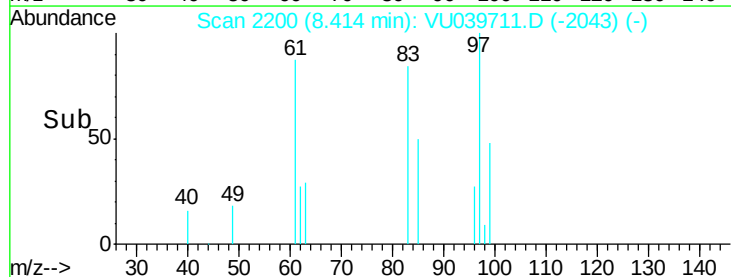
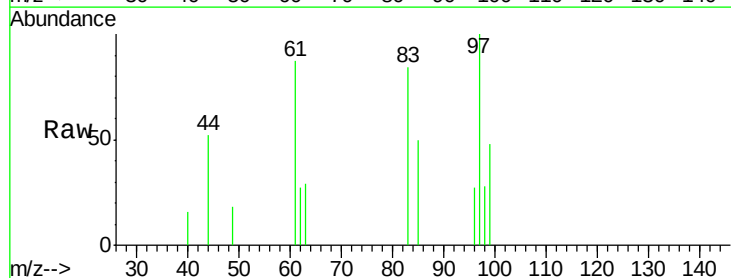
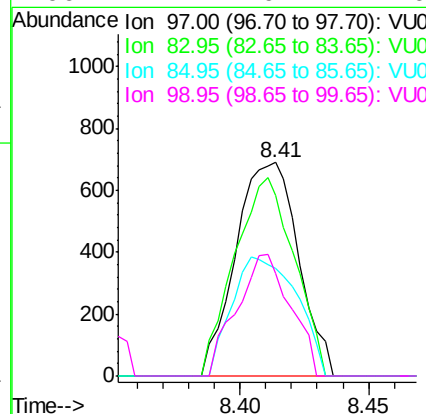
MMDadoda
7/31/2020 3:42:04 PM

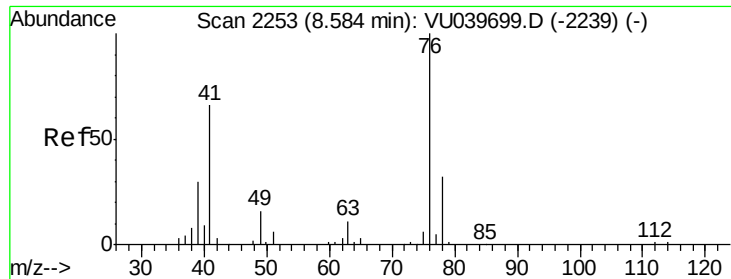


#52

1,1,2-Trichloroethane
Concen: 0.240 ug/l
RT: 8.41 min Scan# 2200
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.5	71.3	106.9
85	50.4	45.4	68.2
99	47.7	49.4	74.0#





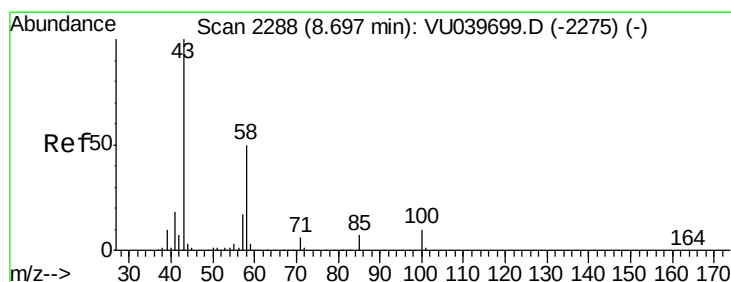
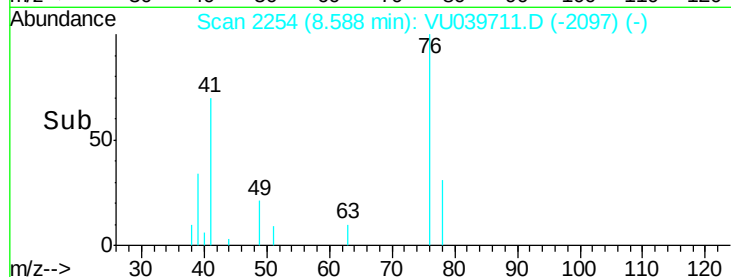
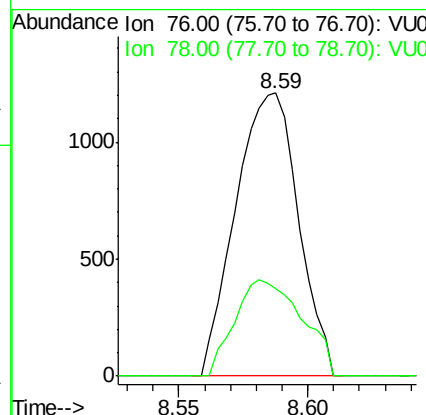
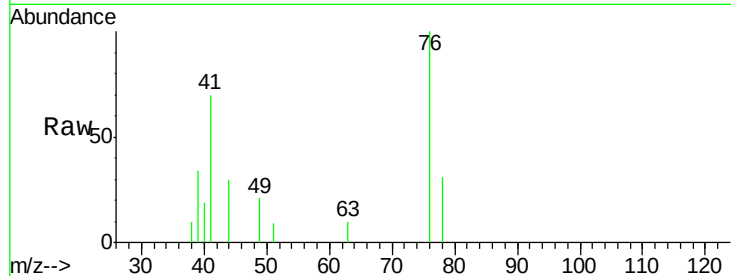
#53
 1,3-Dichloropropane
 Concen: 0.220 ug/l
 RT: 8.59 min Scan# 2254
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	36.5	25.4	38.2

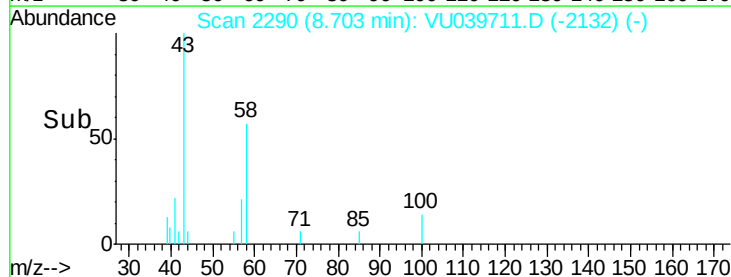
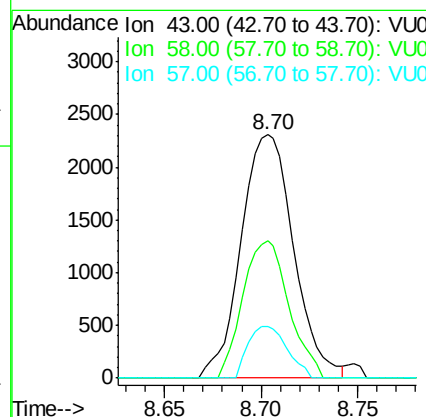
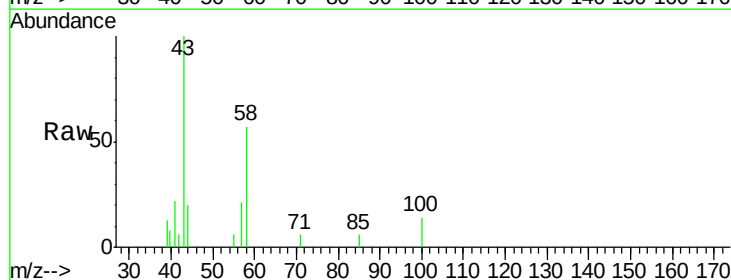
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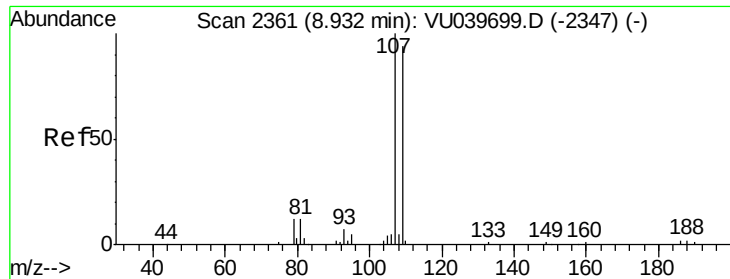
MMDadoda
 7/31/2020 3:42:04 PM



#54
 2-Hexanone
 Concen: 1.079 ug/l
 RT: 8.70 min Scan# 2290
 Delta R.T. 0.01 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
43	100		
58	49.3	29.9	69.9
57	15.7	0.0	37.2





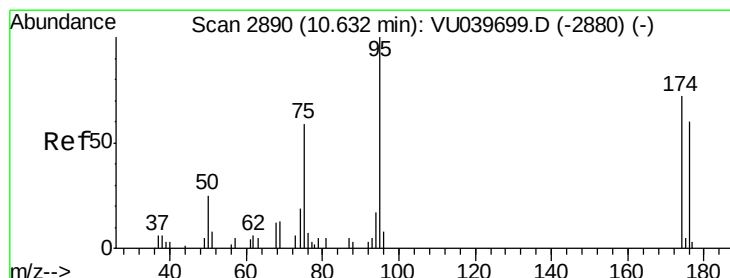
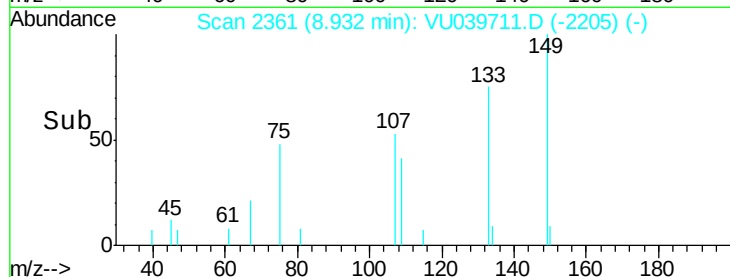
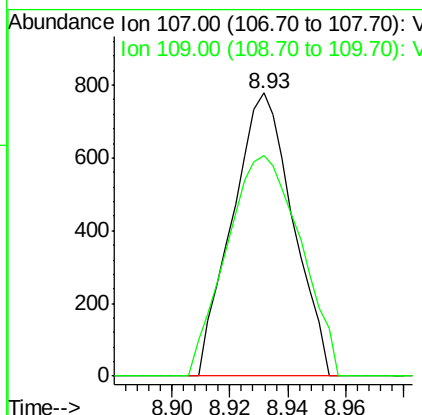
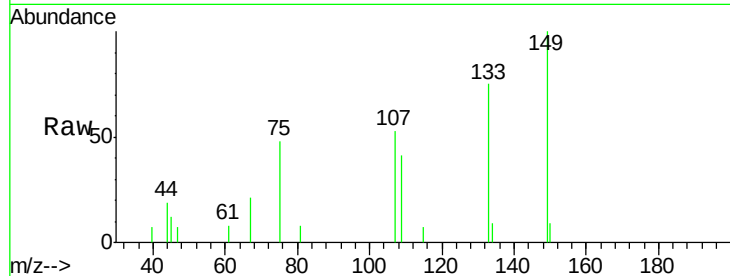
#56
1,2-Dibromoethane
Concen: 0.240 ug/l
RT: 8.93 min Scan# 2361
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
107	100	1123		
109	95.5	0.0	185.2	

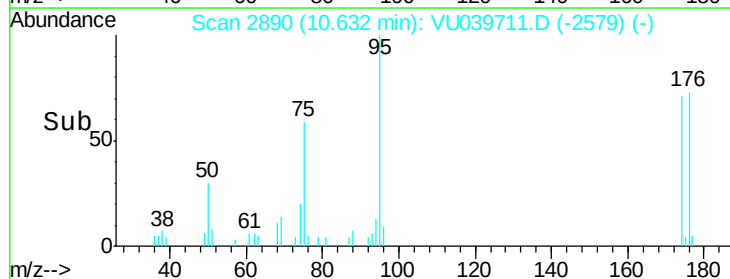
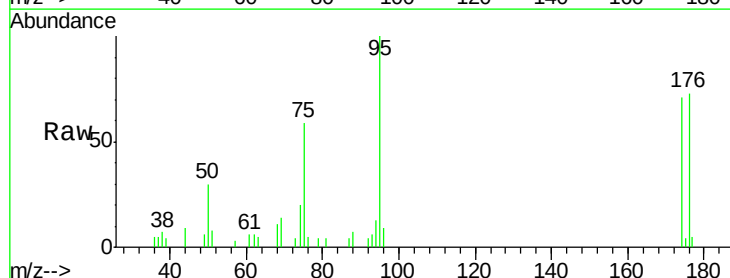
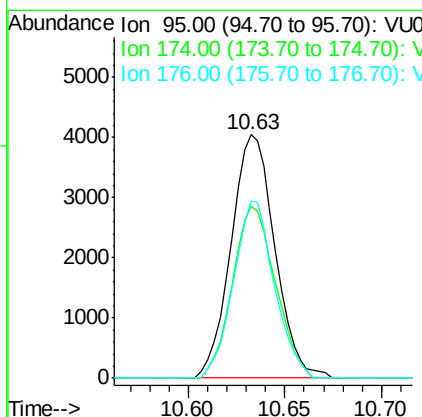
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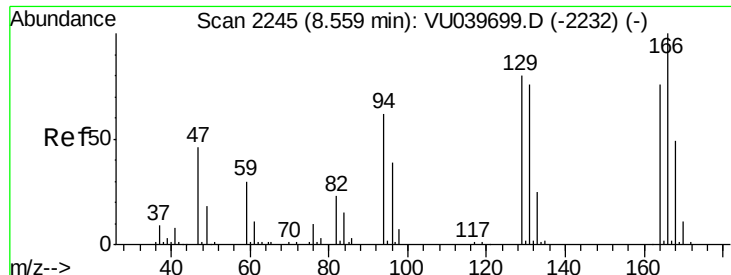
MMDadoda
7/31/2020 3:42:04 PM



#57
4-Bromofluorobenzene
Concen: 0.809 ug/l
RT: 10.63 min Scan# 2890
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	6366		
174	69.2	57.0	85.4	
176	67.7	50.2	75.2	





#58

Tetrachloroethene

Concen: 0.219 ug/l

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU039711.D

Acq: 29 Jul 2020 18:54

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT3-2020

Tot Ion:164 Resp: 1104

Ion Ratio Lower Upper

164 100

166 124.5 104.8 157.2

129 103.4 84.1 126.1

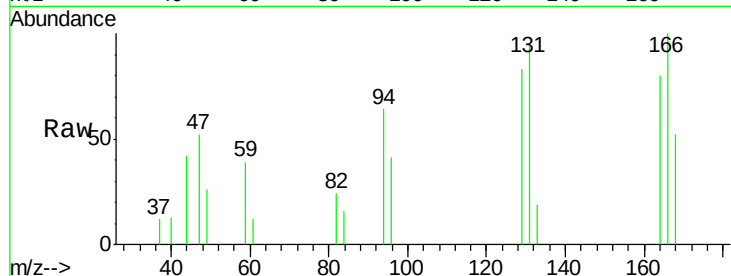
131 116.5 80.1 120.1

Manual Integrations

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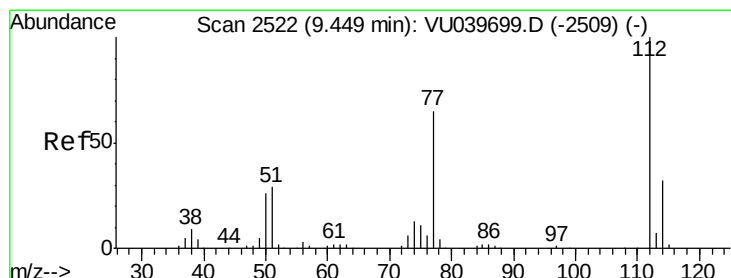
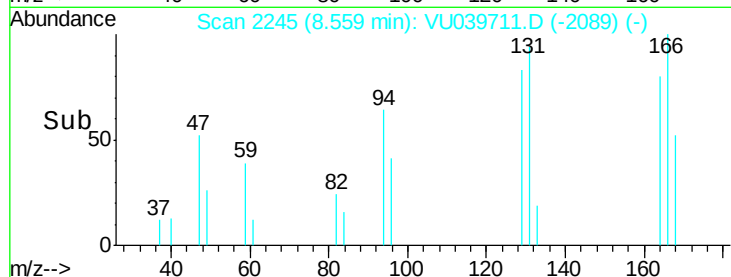
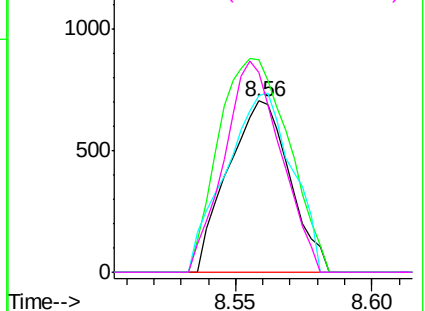


Abundance Ion 163.85 (163.55 to 164.55): V

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: 0.226 ug/l

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU039711.D

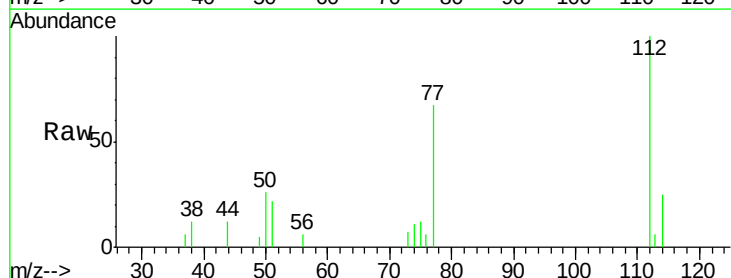
Acq: 29 Jul 2020 18:54

Tgt Ion:112 Resp: 3510

Ion Ratio Lower Upper

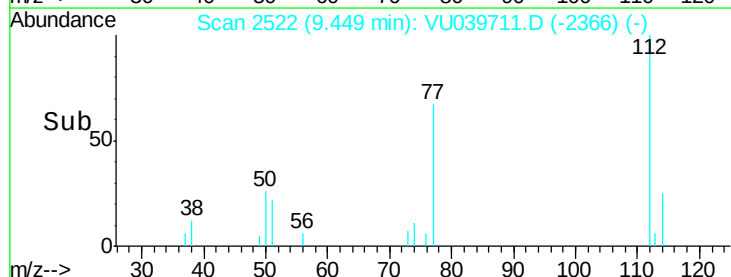
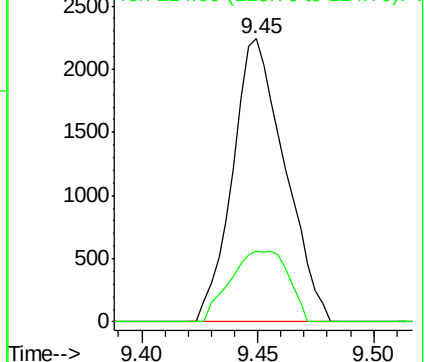
112 100

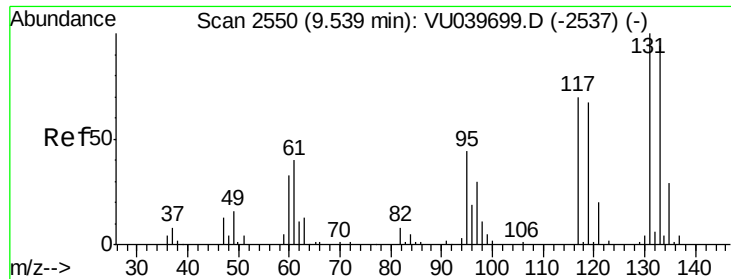
114 24.9 25.8 38.6#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





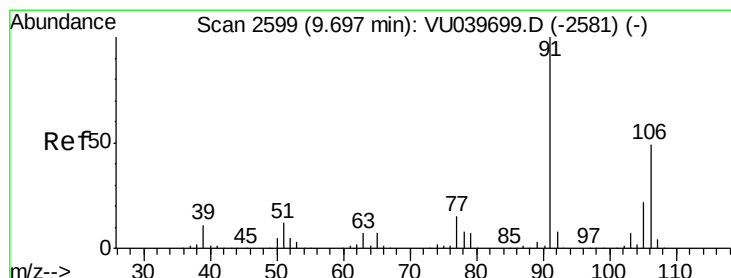
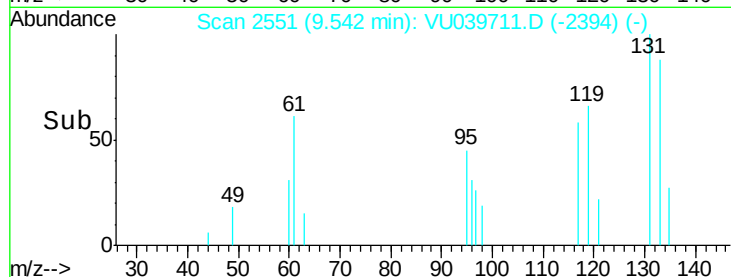
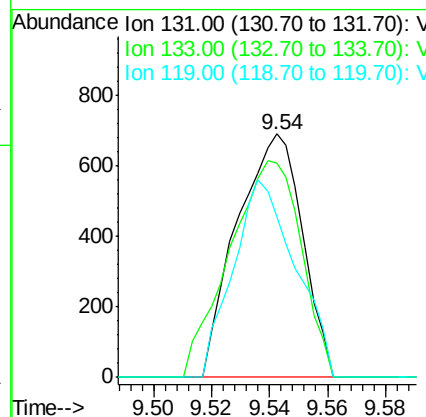
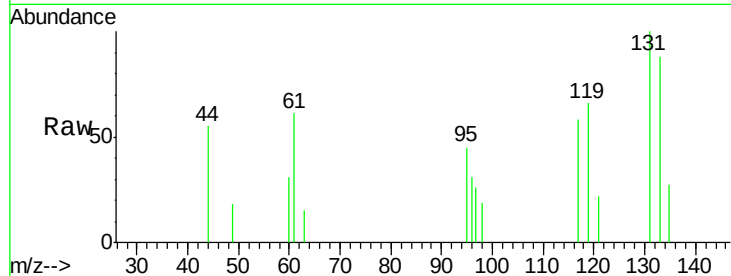
#60
 1,1,1,2-Tetrachloroethane
 Concen: 0.206 ug/l
 RT: 9.54 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion:131 Resp: 1076
 Ion Ratio Lower Upper
 131 100
 133 97.6 75.8 113.8
 119 77.3 54.6 81.8

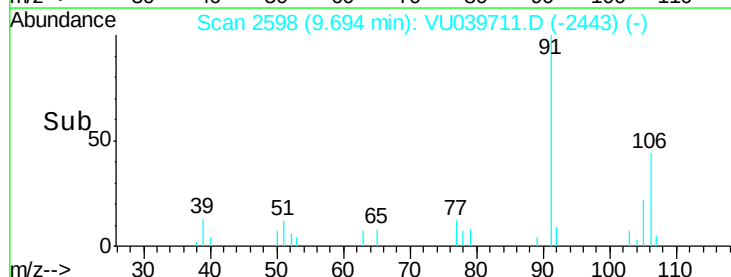
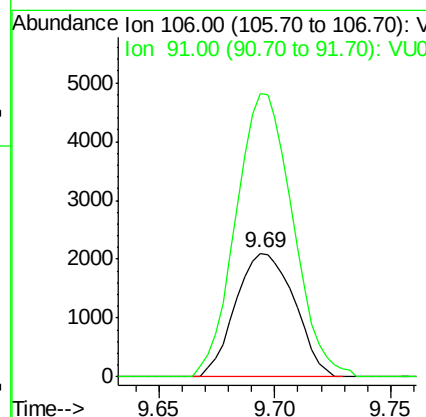
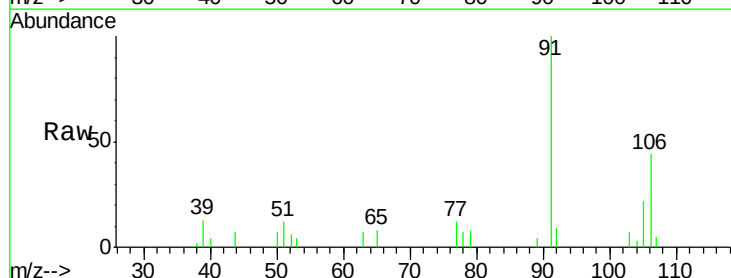
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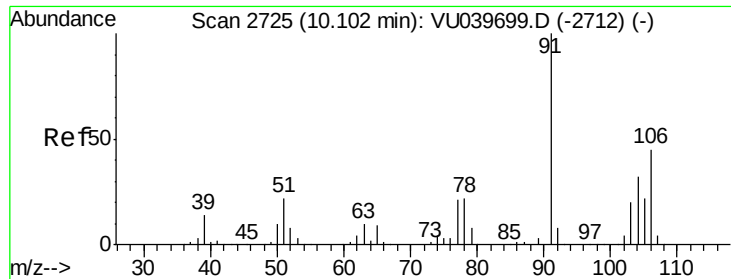
MMDadoda
 7/31/2020 3:42:04 PM



#64
 m/p-Xylenes
 Concen: 0.340 ug/l
 RT: 9.69 min Scan# 2598
 Delta R.T. -0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion:106 Resp: 3694
 Ion Ratio Lower Upper
 106 100
 91 222.0 163.9 245.9





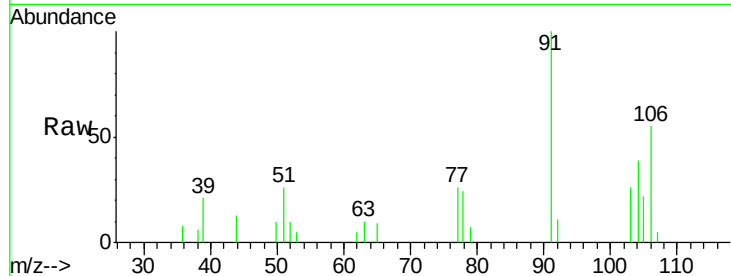
#65
o-Xylene
Concen: 0.202 ug/l
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

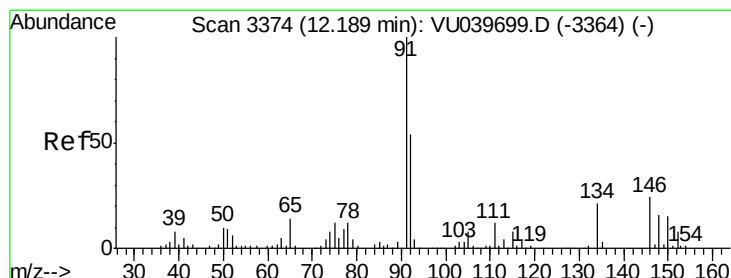
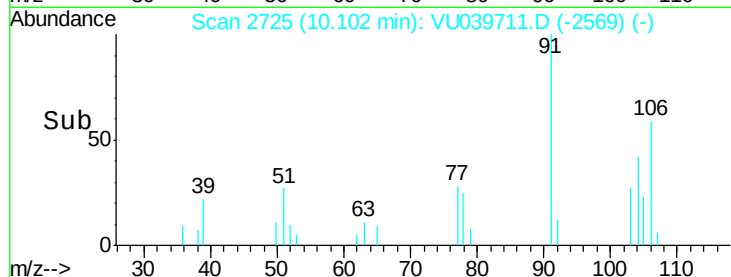
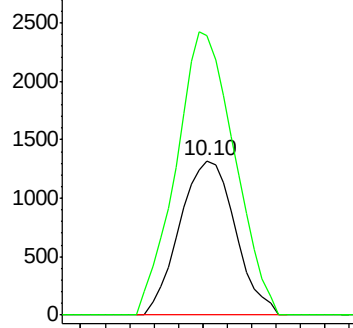
Tot Ion:106 Resp: 2086
Ion Ratio Lower Upper
106 100
91 192.8 110.3 331.0

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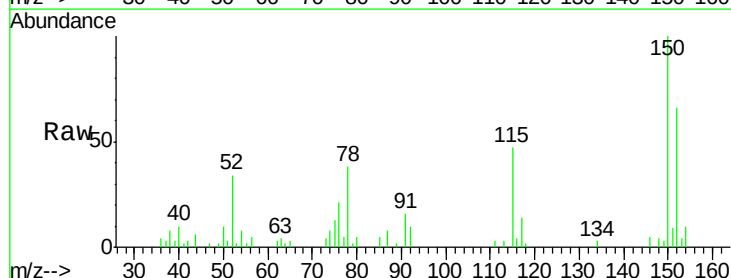


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

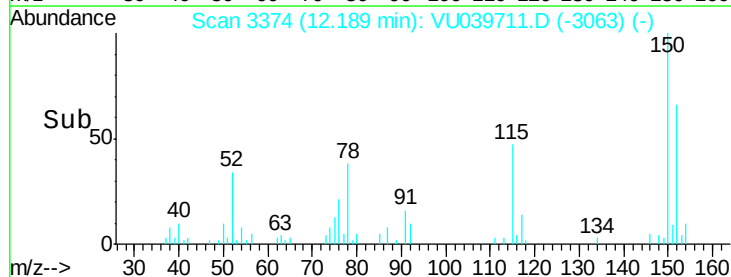
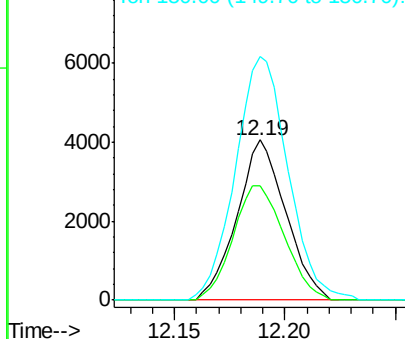


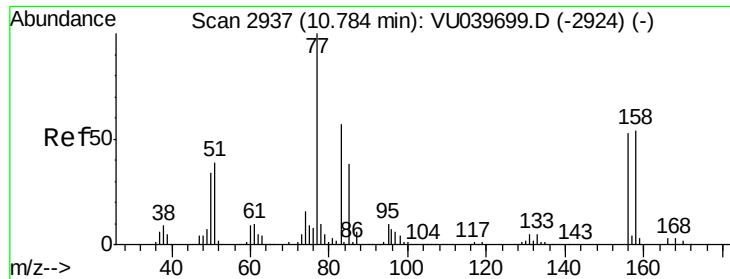
#68
1,2-Dichlorobenzene-d4
Concen: 0.806 ug/l
RT: 12.19 min Scan# 3374
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion:152 Resp: 6211
Ion Ratio Lower Upper
152 100
115 75.1 0.0 302.4
150 164.2 0.0 645.8



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





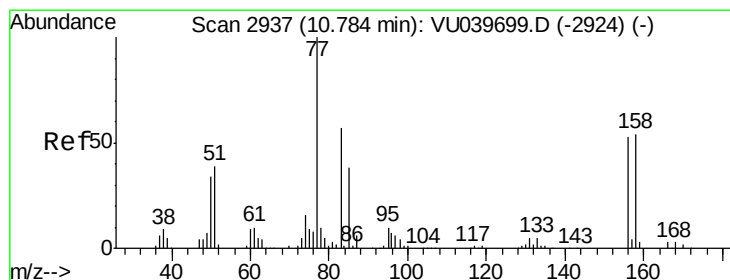
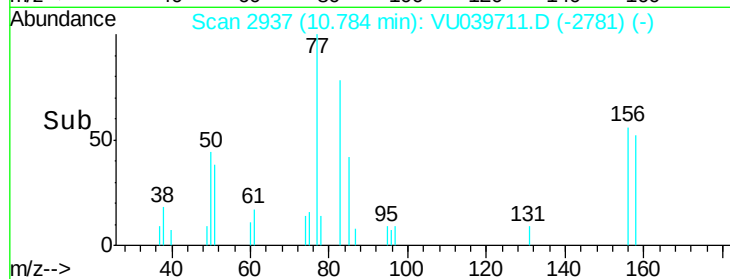
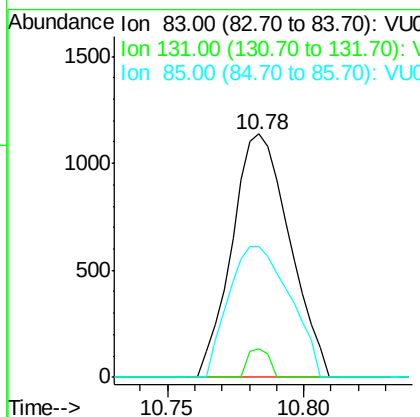
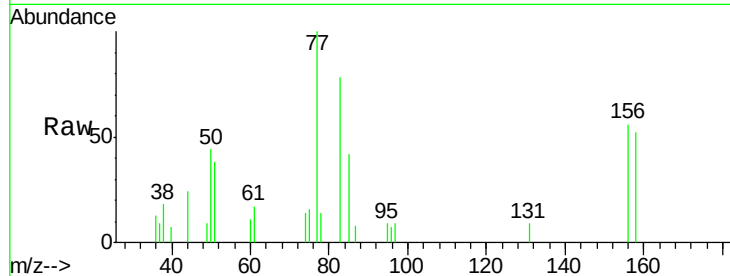
#70
 1,1,2,2-Tetrachloroethane
 Concen: 0.238 ug/l
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion	83	Resp	1667
Ion Ratio	100	Lower	Upper
131	4.2	7.0	10.6#
85	57.3	50.6	75.8

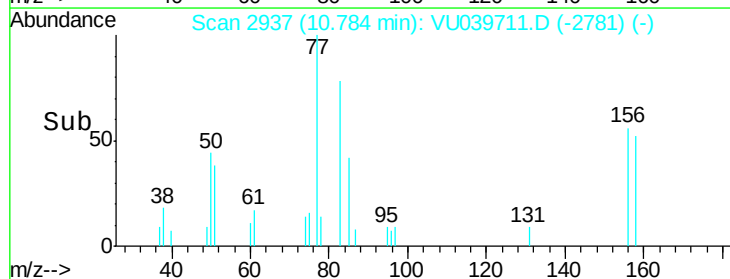
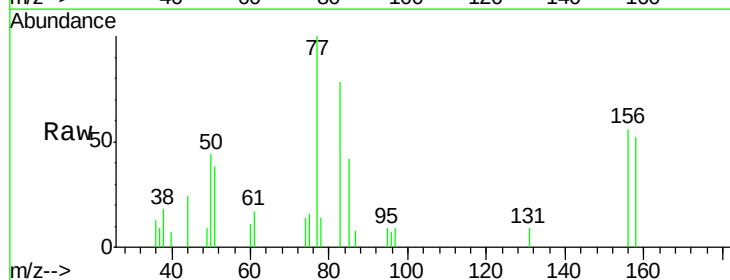
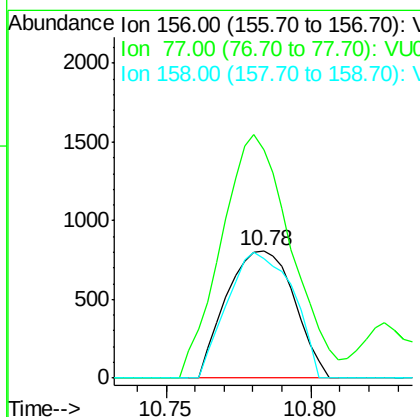
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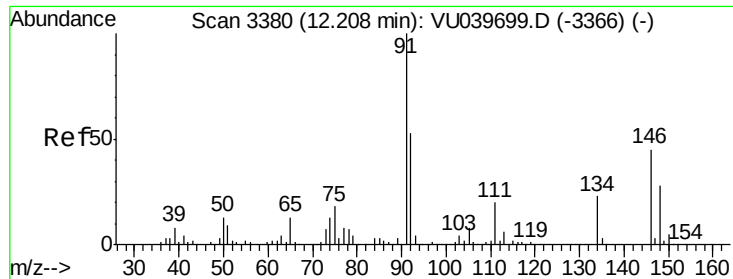
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#72
 Bromobenzene
 Concen: 0.210 ug/l
 RT: 10.78 min Scan# 2937
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion	156	Resp	1314
Ion Ratio	100	Lower	Upper
77	196.4	0.0	385.2
158	95.6	0.0	200.8





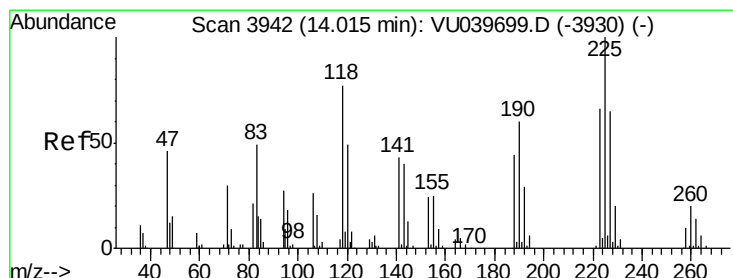
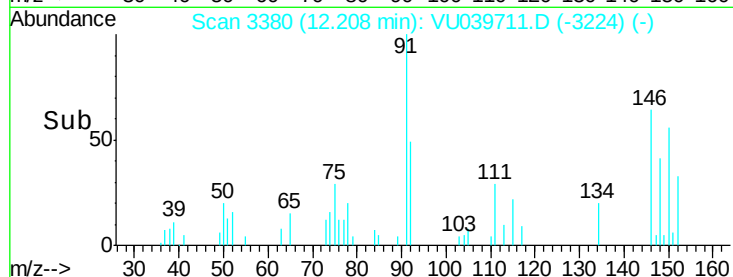
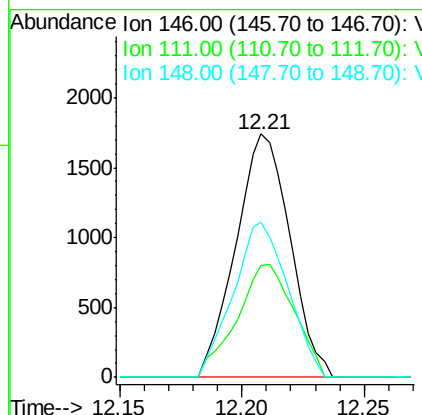
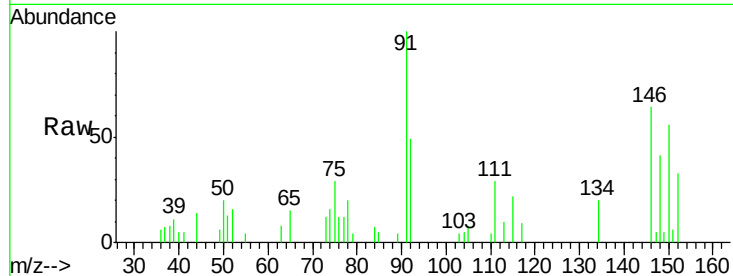
#85
 1,2-Dichlorobenzene
 Concen: 0.206 ug/l
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.0	22.8	68.3
148	64.4	31.7	95.1

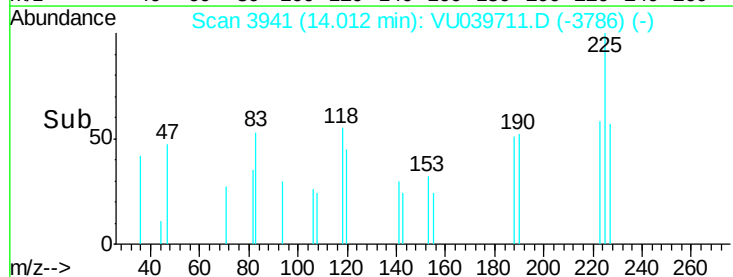
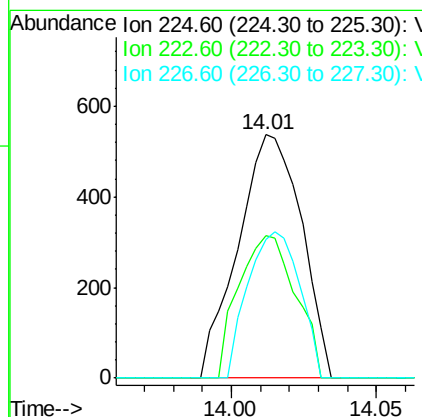
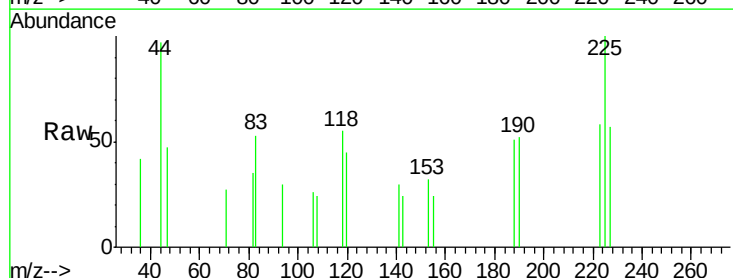
Manual Integrations
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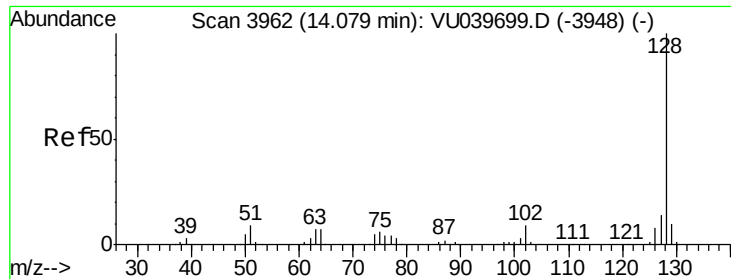
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#88
 Hexachlorobutadiene
 Concen: 0.221 ug/l
 RT: 14.01 min Scan# 3941
 Delta R.T. -0.00 min
 Lab File: VU039711.D
 Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
225	100		
223	52.6	52.4	78.6
227	49.0	50.7	76.1





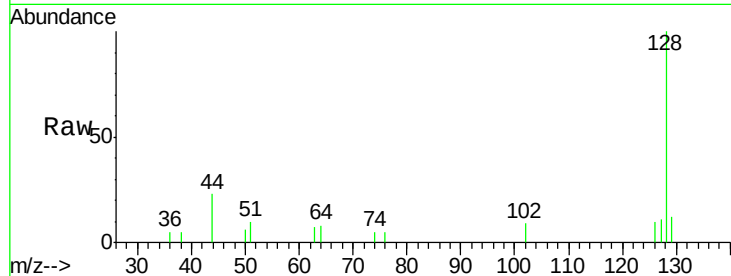
#89
Naphthalene
Concen: 0.224 ug/l
RT: 14.08 min Scan# 3962
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT3-2020

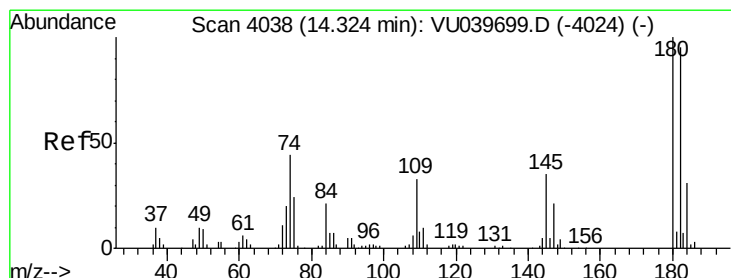
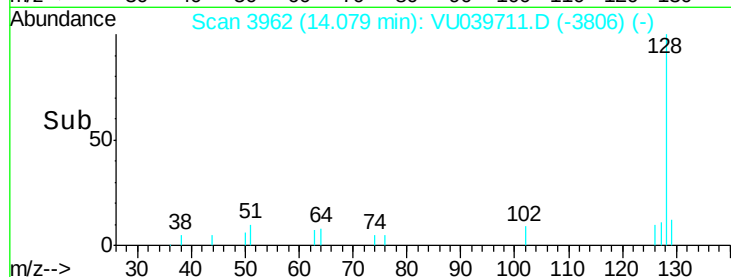
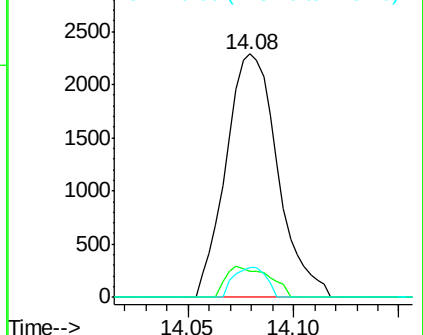
Tot Ion	Ratio	Lower	Upper
128	100		
127	10.5	11.0	16.4#
129	7.7	8.4	12.6#

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#90
1,2,3-Trichlorobenzene
Concen: 0.216 ug/l
RT: 14.32 min Scan# 4038
Delta R.T. 0.00 min
Lab File: VU039711.D
Acq: 29 Jul 2020 18:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	34.4	27.8	41.6

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

