

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010521\
 Data File : VU041851.D
 Acq On : 05 Jan 2021 12:28
 Operator : SY/MD
 Sample : L5214-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

Manual Integrations
 APPROVED

SAM
 1/7/2021 5:23:27 PM

Quant Time: Jan 06 06:38:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR122820WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jan 06 06:32:42 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	156857	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	155205	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	73388	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	48158	3.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.60%
7) Chloroethane-d5	1.92	69	49322	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	2.57	65	23721	3.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.60%
20) 2-Butanone-d5	4.66	46	147090	41.89	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.78%
24) Chloroform-d	5.08	84	96332	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.40%
26) 1,2-Dichloroethane-d4	5.71	65	53682	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
32) Benzene-d6	5.74	84	188469	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.40%
36) 1,2-Dichloropropane-d6	6.70	67	60244	4.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.40%
41) Toluene-d8	7.90	98	177369	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
43) trans-1,3-Dichloropropene-	8.19	79	24284	4.16	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.20%
46) 2-Hexanone-d5	8.64	63	133920	43.03	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.06%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	55885	4.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.80%
66) 1,2-Dichlorobenzene-d4	12.19	152	64767	4.64	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	2795	0.195 ug/L #	81
3) Chloromethane	1.52	50	4106	0.314 ug/L	91
5) Vinyl chloride	1.61	62	3627	0.227 ug/L #	72
6) Bromomethane	1.86	94	2089	0.191 ug/L	88
8) Chloroethane	1.94	64	2246	0.222 ug/L	84
9) Trichlorofluoromethane	2.14	101	4607	0.208 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3531	0.284 ug/L #	75
12) 1,1-Dichloroethene	2.58	96	2956	0.240 ug/L #	1
13) Acetone	2.69	43	3772	1.556 ug/L	71
14) Carbon disulfide	2.80	76	8382	0.203 ug/L	99
15) Methyl Acetate	2.99	43	1225	0.216 ug/L #	60
16) Methylene chloride	3.06	84	3998	0.256 ug/L	96
17) Methyl tert-butyl Ether	3.38	73	5258	0.176 ug/L #	69
18) trans-1,2-Dichloroethene	3.36	96	2379	0.199 ug/L #	69
19) 1,1-Dichloroethane	3.88	63	3588	0.169 ug/L #	96
21) 2-Butanone	4.75	43	6395m	1.912 ug/L	
22) cis-1,2-Dichloroethene	4.68	96	2859	0.231 ug/L	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010521\
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 Quant Title : TRACE VOA SFAM1.0
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 Response via : Initial Calibration

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

23) Bromochloromethane	5.00	128	1111	0.185	ug/L #	81
25) Chloroform	5.11	83	5379	0.251	ug/L	98
27) 1,2-Dichloroethane	5.81	62	2568	0.184	ug/L #	93
29) 1,1,1-Trichloroethane	5.33	97	3775	0.203	ug/L	96
30) Cyclohexane	5.40	56	3684	0.215	ug/L	89
31) Carbon tetrachloride	5.53	117	3029	0.184	ug/L	96
33) Benzene	5.79	78	10943	0.237	ug/L	100
34) Trichloroethene	6.55	95	2651	0.219	ug/L	95
35) Methylcyclohexane	6.77	83	3674	0.198	ug/L	99
37) 1,2-Dichloropropane	6.81	63	2373	0.206	ug/L #	87
38) Bromodichloromethane	7.11	83	3133	0.208	ug/L #	95
39) cis-1,3-Dichloropropene	7.62	75	3476	0.202	ug/L	88
40) 4-Methyl-2-pentanone	7.80	43	14668	1.993	ug/L #	83
42) Toluene	7.97	91	10081	0.207	ug/L	91
44) trans-1,3-Dichloropropene	8.21	75	2843m	0.180	ug/L	
45) 1,1,2-Trichloroethane	8.40	97	1638	0.176	ug/L	93
47) Tetrachloroethene	8.56	164	2155	0.228	ug/L #	77
48) 2-Hexanone	8.69	43	12278	2.282	ug/L #	95
49) Dibromochloromethane	8.82	129	2271	0.203	ug/L	100
50) 1,2-Dibromoethane	8.92	107	1675	0.182	ug/L #	89
51) Chlorobenzene	9.45	112	6542	0.204	ug/L	95
52) Ethylbenzene	9.57	91	9721	0.191	ug/L	97
53) m,p-Xylene	9.70	106	3500	0.175	ug/L	93
54) o-Xylene	10.10	106	3163	0.166	ug/L	76
55) Styrene	10.11	104	5686	0.174	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.78	83	2506	0.205	ug/L #	92
59) Bromoform	10.29	173	1239	0.196	ug/L #	89
60) Isopropylbenzene	10.48	105	9182	0.200	ug/L	97
61) 1,2,3-Trichloropropane	10.82	75	1503	0.182	ug/L #	91
62) 1,3,5-Trimethylbenzene	11.09	105	6762	0.179	ug/L	93
63) 1,2,4-Trimethylbenzene	11.46	105	6239	0.167	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	4877	0.220	ug/L	96
65) 1,4-Dichlorobenzene	11.83	146	4993	0.221	ug/L	93
67) 1,2-Dichlorobenzene	12.21	146	5059	0.229	ug/L	92
68) 1,2-Dibromo-3-chloropropan	12.98	75	387m	0.204	ug/L	
69) 1,3,5-Trichlorobenzene	13.21	180	3524	0.212	ug/L	98
70) 1,2,4-trichlorobenzene	13.83	180	2345	0.193	ug/L	97
71) Naphthalene	14.08	128	2899	0.135	ug/L #	88
72) 1,2,3-Trichlorobenzene	14.32	180	2269	0.196	ug/L #	97

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

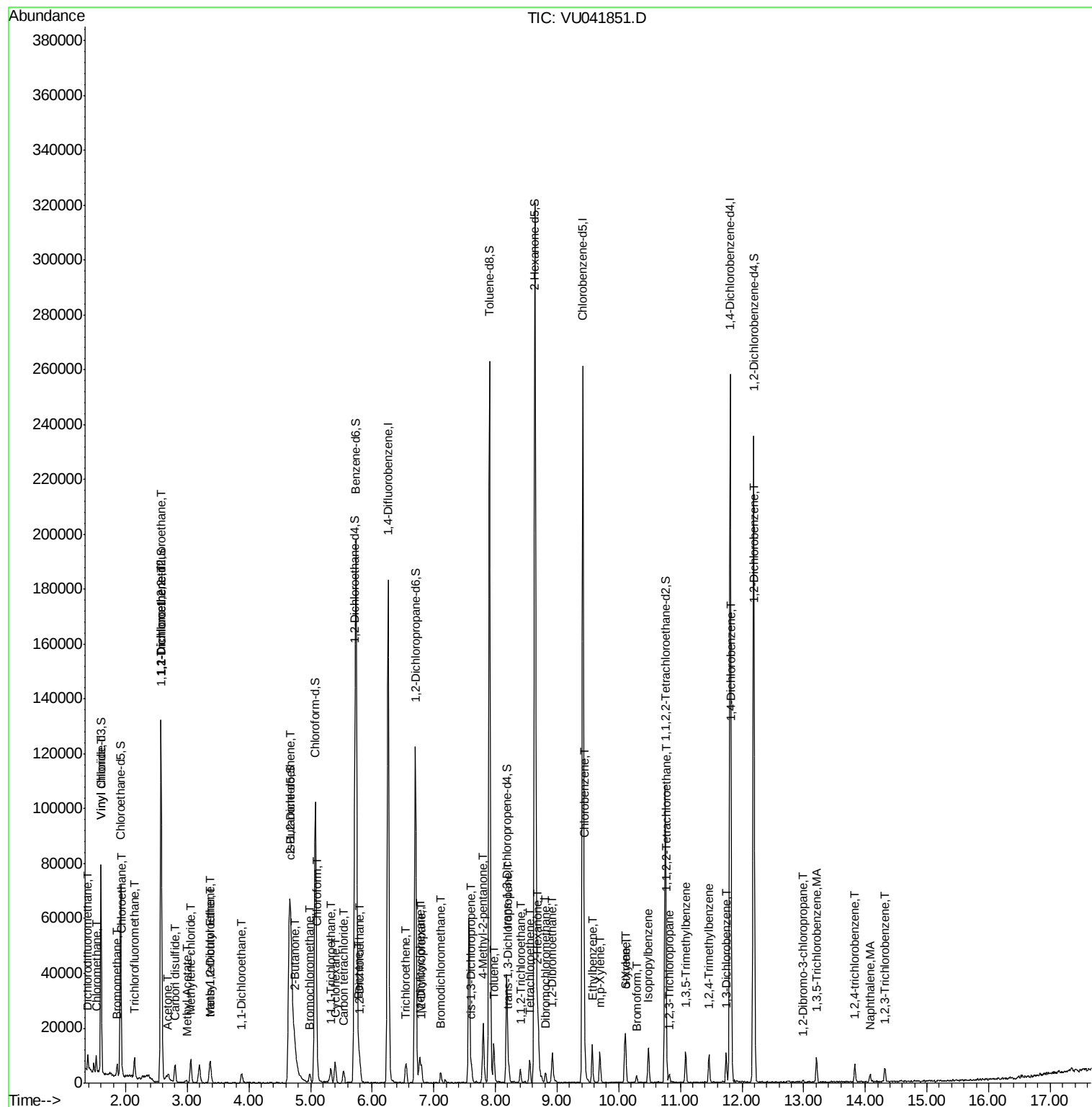
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU010521\
Data File : VU041851.D
Acq On : 05 Jan 2021 12:28
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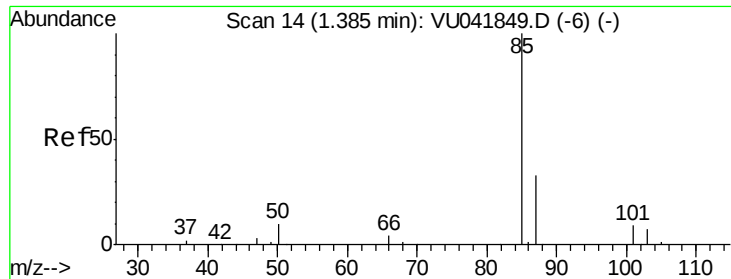
Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2021-01

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#2

Dichlorodifluoromethane

Concen: 0.195 ug/L

RT: 1.39 min Scan# 14

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion: 85 Resp: 2795

Ion Ratio Lower Upper

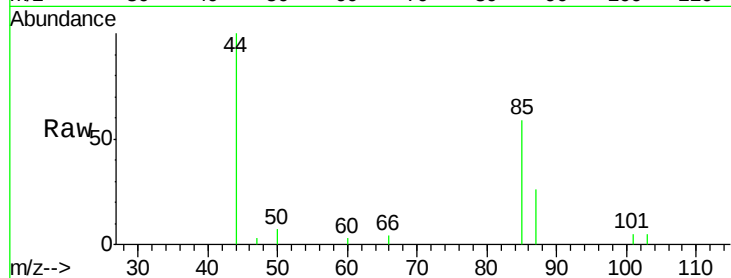
85 100

87 43.8 26.3 39.5#

Manual Integrations
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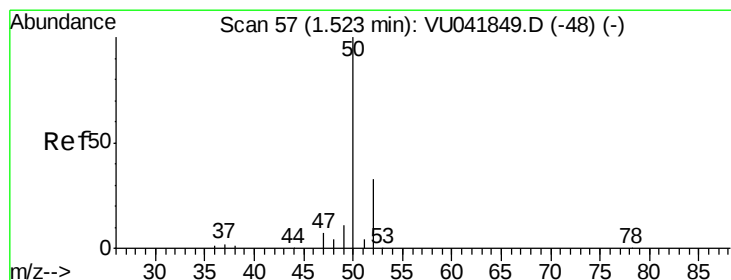
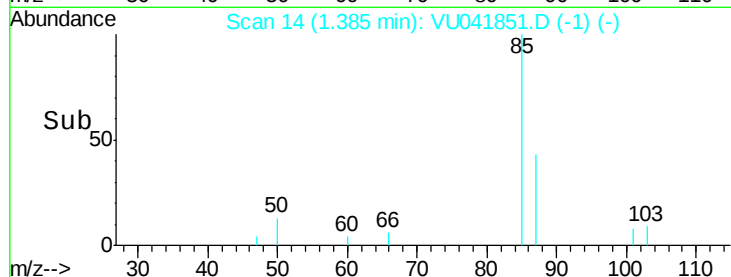
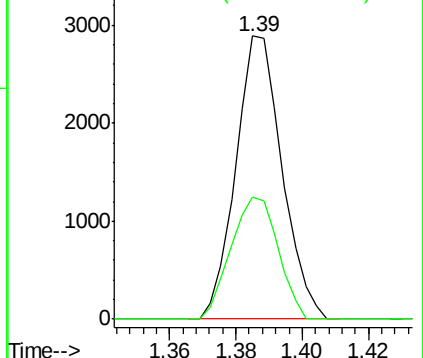
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Abundance Ion 85.00 (84.70 to 85.70): VU041849.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VU041849.D (-6) (-)



#3

Chloromethane

Concen: 0.314 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041851.D

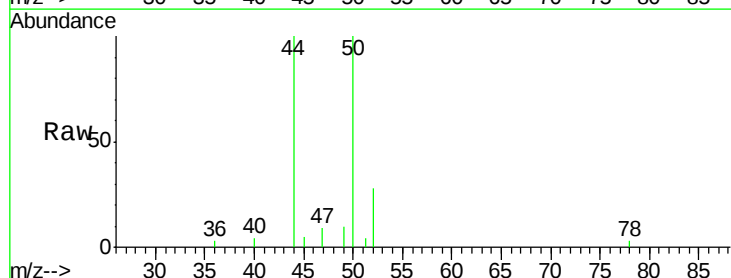
Acq: 05 Jan 2021 12:28

Tgt Ion: 50 Resp: 4106

Ion Ratio Lower Upper

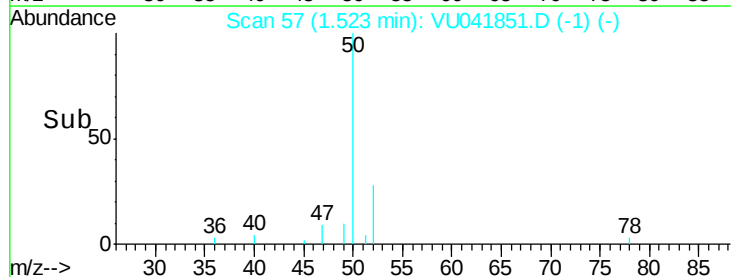
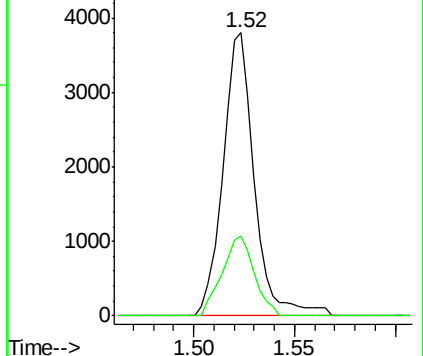
50 100

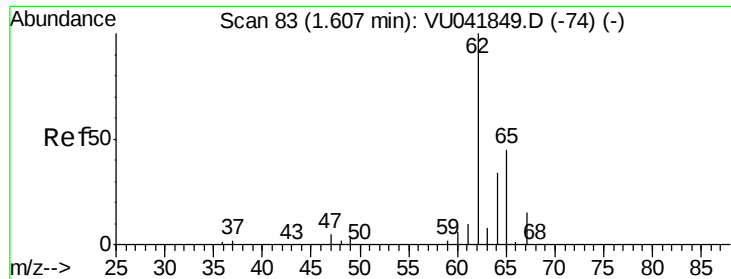
52 28.4 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VU041849.D (-48) (-)

Ion 52.05 (51.75 to 52.75): VU041849.D (-48) (-)





#5

Vinyl chloride

Concen: 0.227 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion: 62 Resp: 3627

Ion Ratio Lower Upper

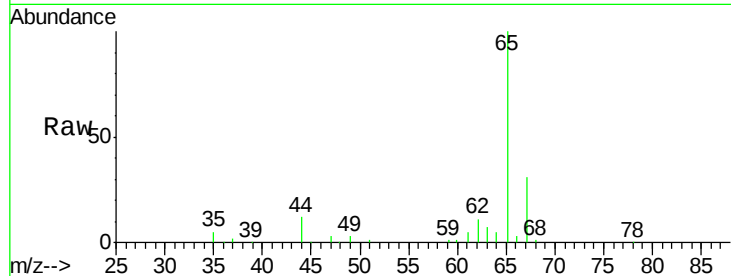
62 100

64 48.5 22.8 42.4#

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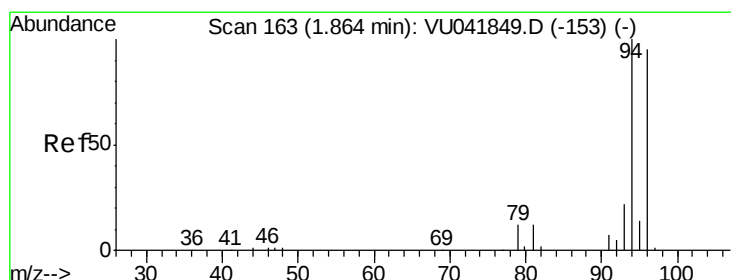
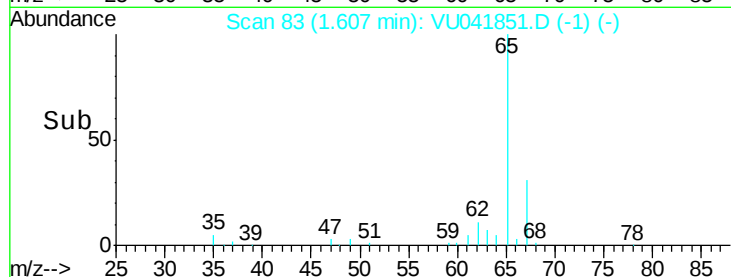
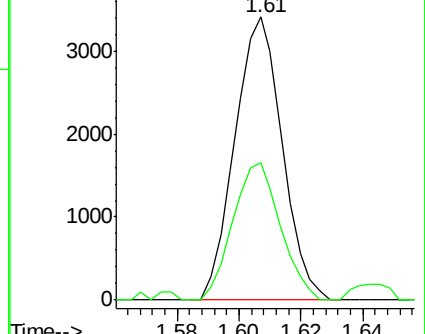
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Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.191 ug/L

RT: 1.86 min Scan# 162

Delta R.T. -0.00 min

Lab File: VU041851.D

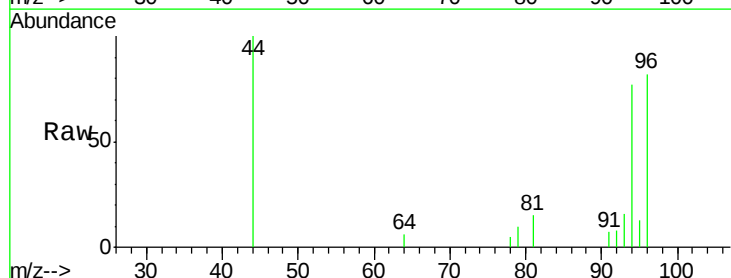
Acq: 05 Jan 2021 12:28

Tgt Ion: 94 Resp: 2089

Ion Ratio Lower Upper

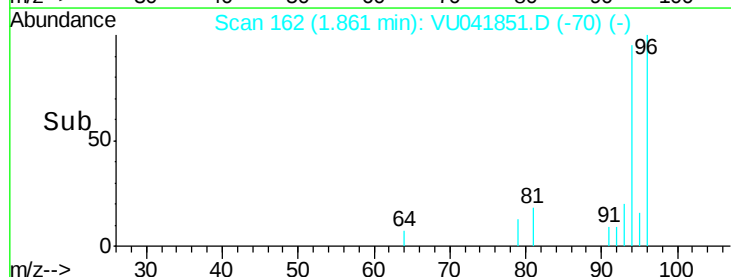
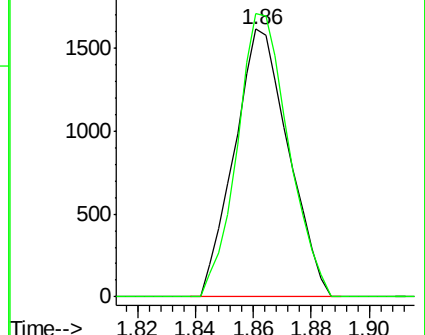
94 100

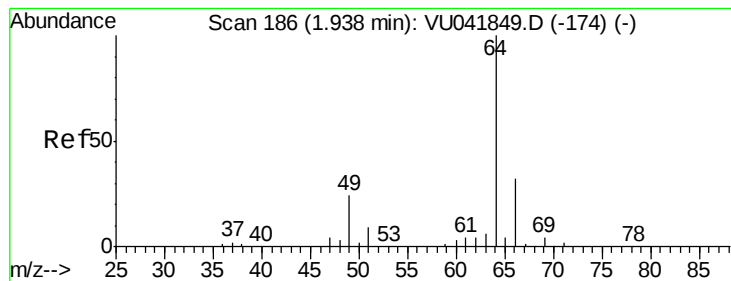
96 105.6 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.222 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion: 64 Resp: 2246

Ion Ratio Lower Upper

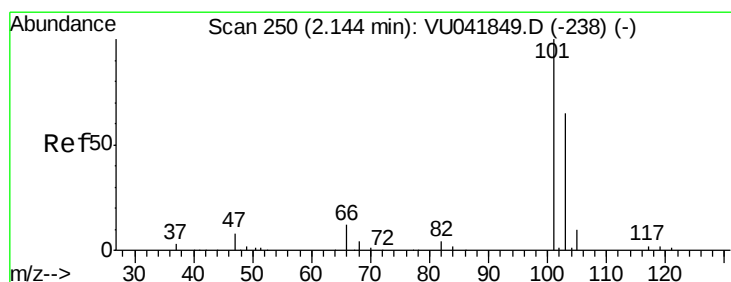
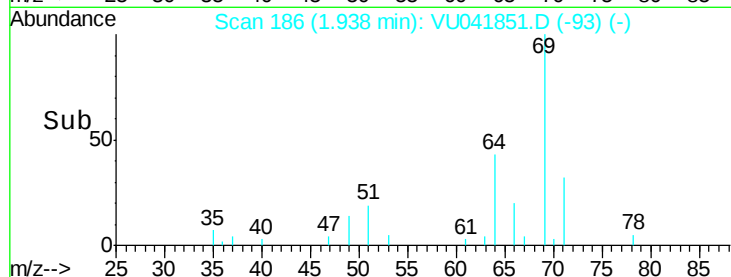
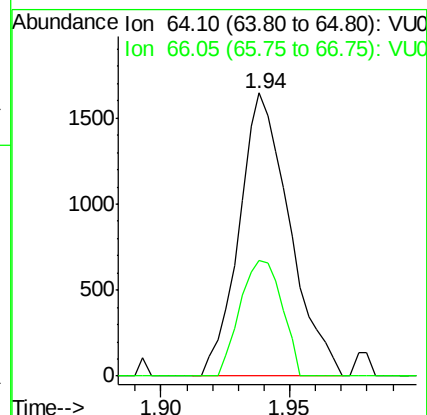
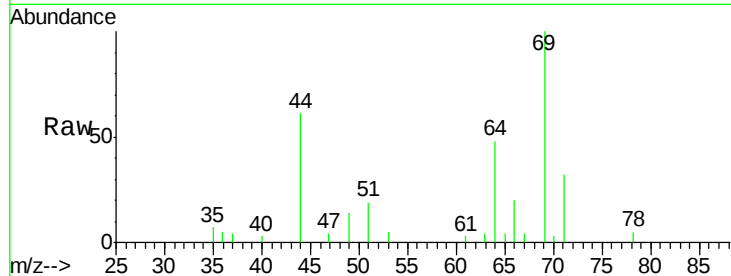
64 100

66 40.7 22.4 41.6

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#9

Trichlorofluoromethane

Concen: 0.208 ug/L

RT: 2.14 min Scan# 250

Delta R.T. -0.00 min

Lab File: VU041851.D

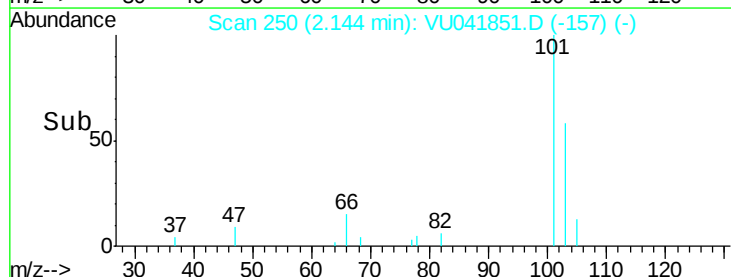
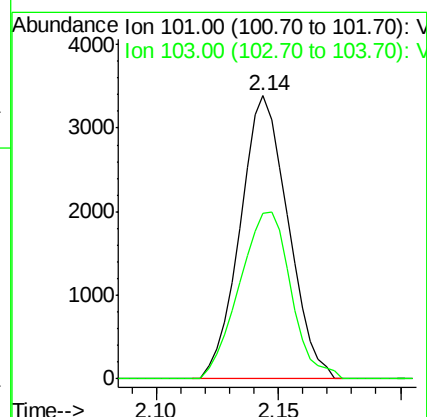
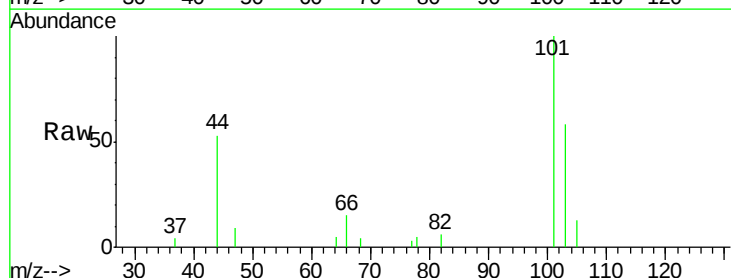
Acq: 05 Jan 2021 12:28

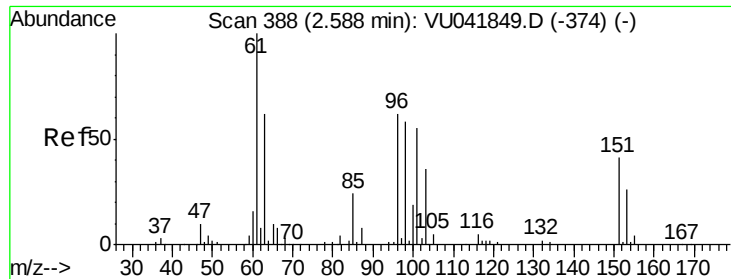
Tgt Ion: 101 Resp: 4607

Ion Ratio Lower Upper

101 100

103 63.4 51.5 77.3





#10

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

Concen: 0.284 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

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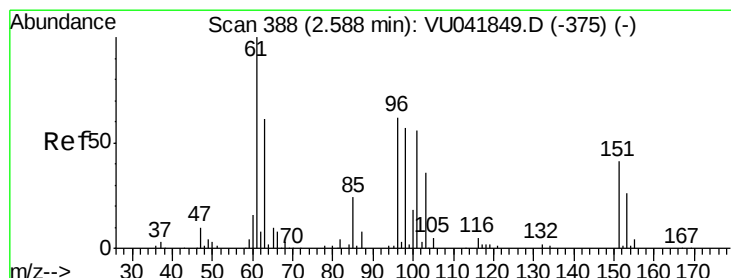
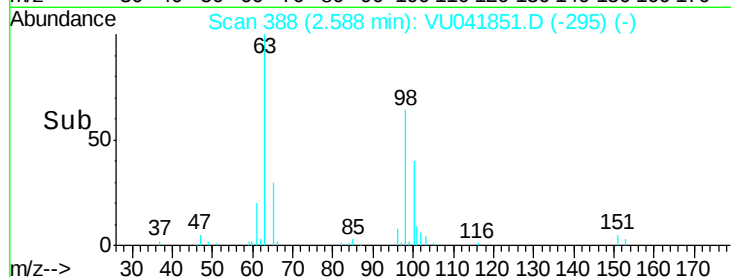
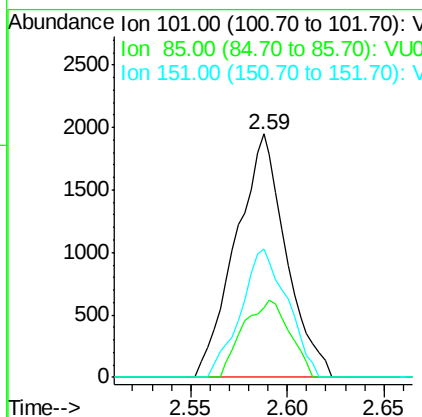
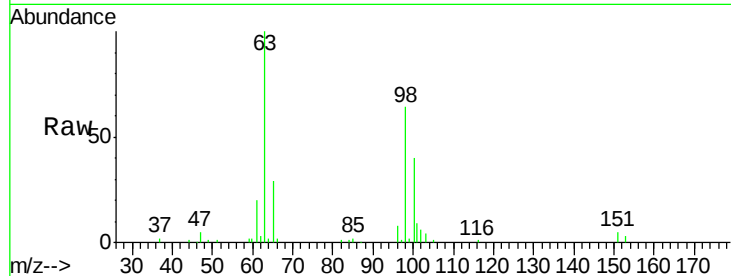
MDL-WATER-QT1-2021-01

Tot Ion:	101	Resp:	3531
Ion Ratio	Lower	Upper	
101	100		
85	29.2	34.5	51.7#
151	48.9	57.4	86.2#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.240 ug/L

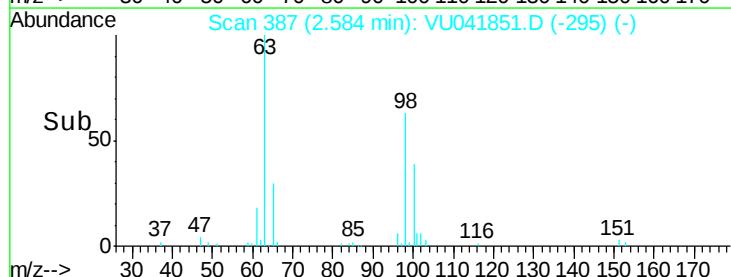
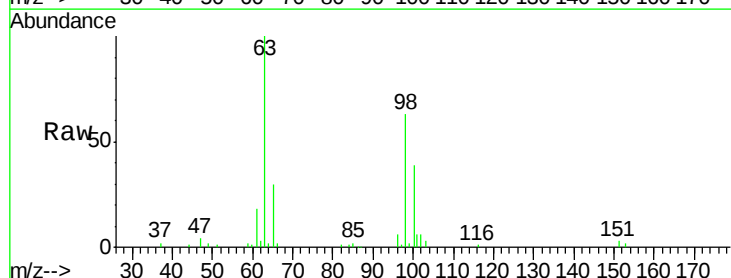
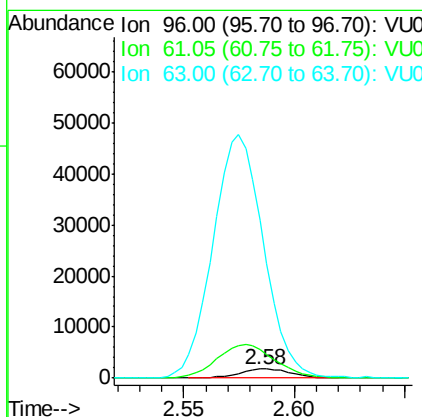
RT: 2.58 min Scan# 387

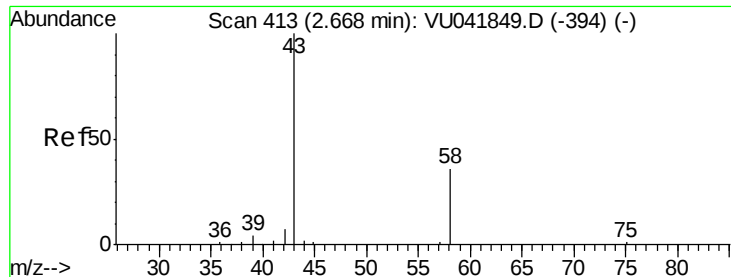
Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Tgt Ion:	96	Resp:	2956
Ion Ratio	Lower	Upper	
96	100		
61	306.0	115.1	213.7#
63	1711.1	84.1	156.1#





#13

Acetone

Concen: 1.556 ug/L

RT: 2.69 min Scan# 419

Delta R.T. 0.02 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion: 43 Resp: 3772

Ion Ratio Lower Upper

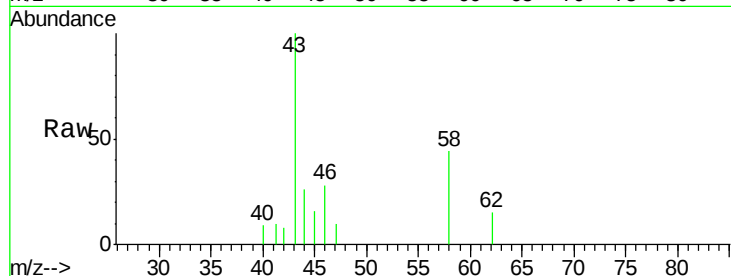
43 100

58 23.9 0.0 25.0

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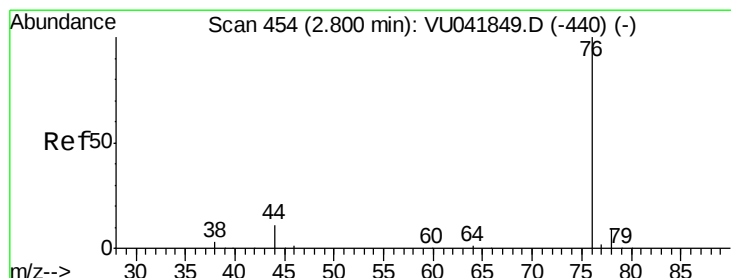
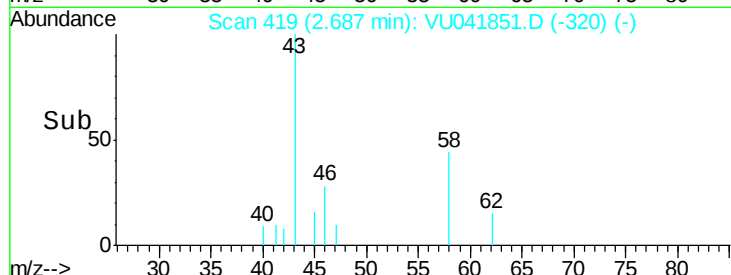
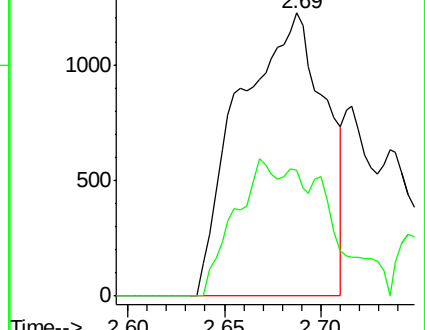
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Abundance Ion 43.05 (42.75 to 43.75): VU041851.D (-320) (-)

Ion 58.05 (57.75 to 58.75): VU041851.D (-320) (-)



#14

Carbon disulfide

Concen: 0.203 ug/L

RT: 2.80 min Scan# 455

Delta R.T. 0.00 min

Lab File: VU041851.D

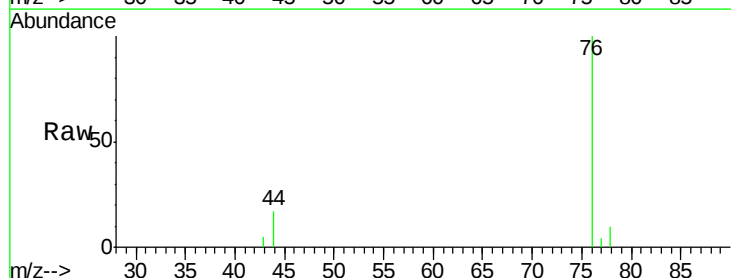
Acq: 05 Jan 2021 12:28

Tgt Ion: 76 Resp: 8382

Ion Ratio Lower Upper

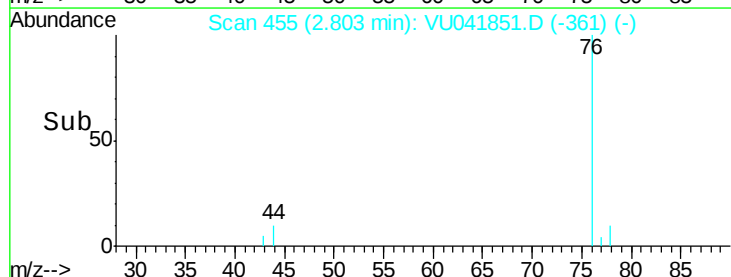
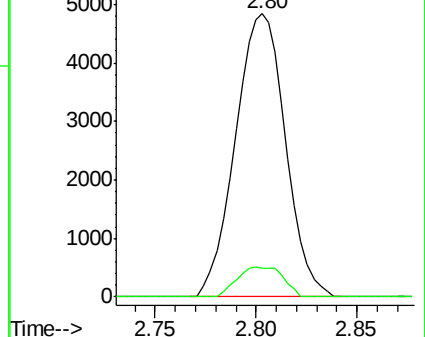
76 100

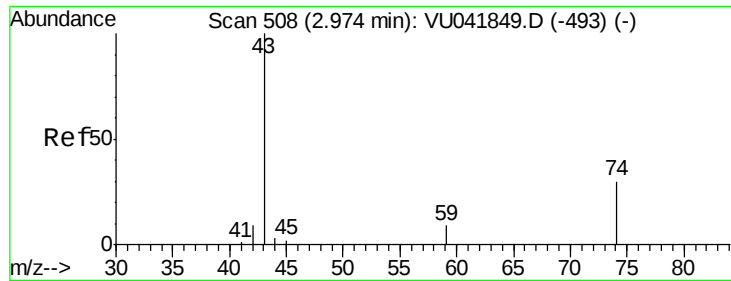
78 9.9 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU041851.D (-361) (-)

Ion 78.00 (77.70 to 78.70): VU041851.D (-361) (-)





#15

Methvl Acetate

Concen: 0.216 ug/L

RT: 2.99 min Scan# 512

Delta R.T. 0.01 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion: 43 Resp: 1225

Ion Ratio Lower Upper

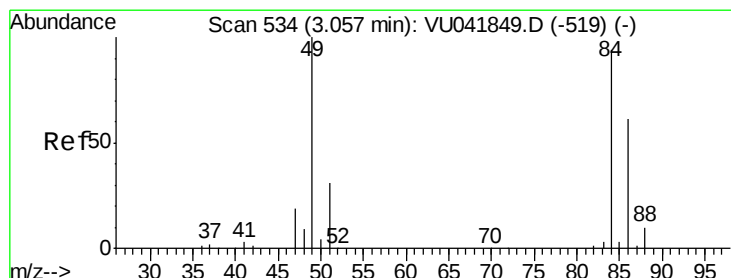
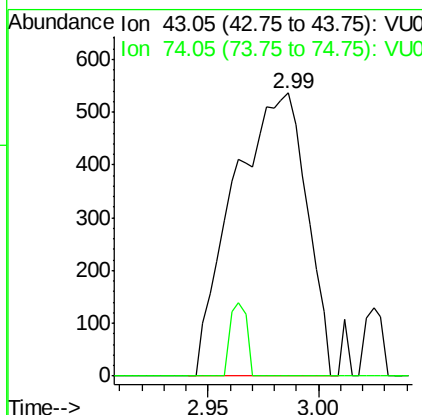
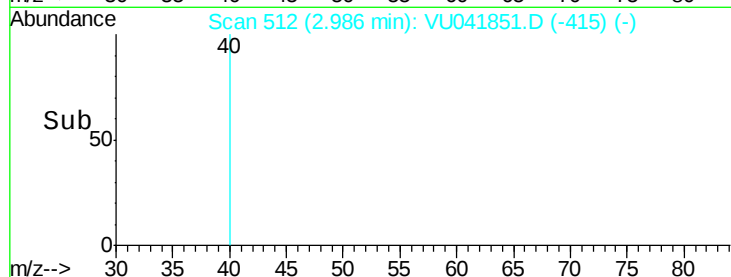
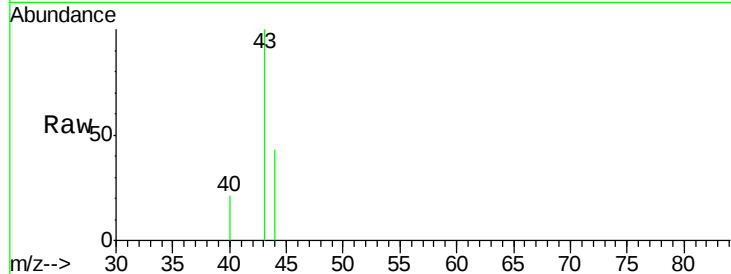
43 100

74 6.0 21.5 32.3#

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#16

Methylene chloride

Concen: 0.256 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

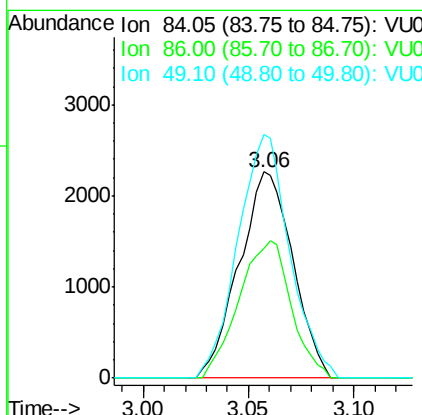
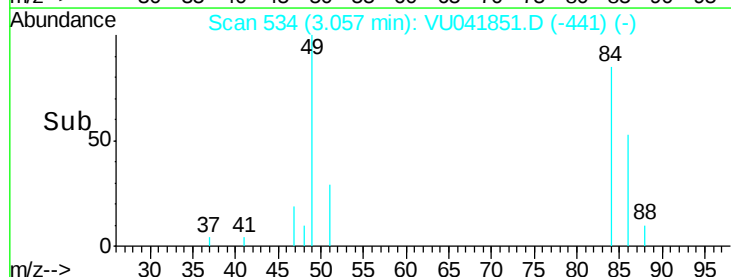
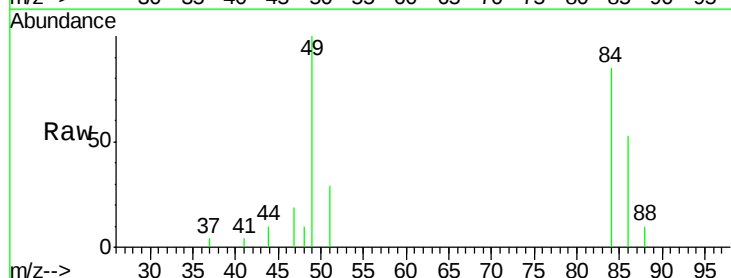
Tgt Ion: 84 Resp: 3998

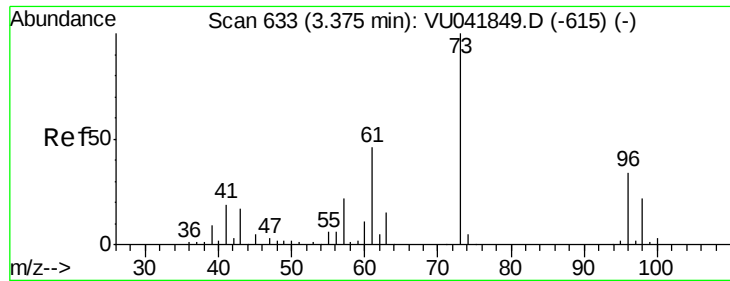
Ion Ratio Lower Upper

84 100

86 62.8 44.9 83.5

49 118.2 79.0 146.8





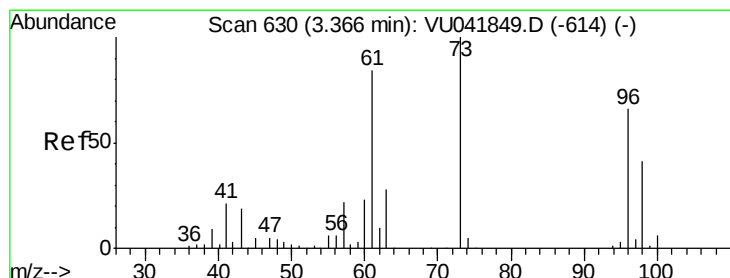
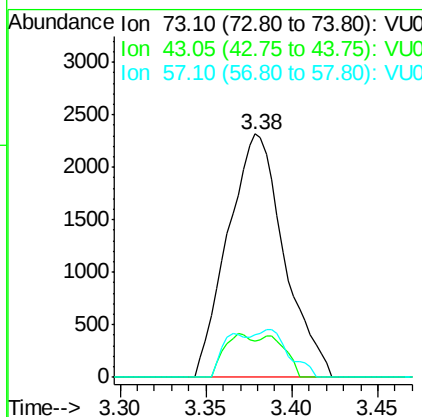
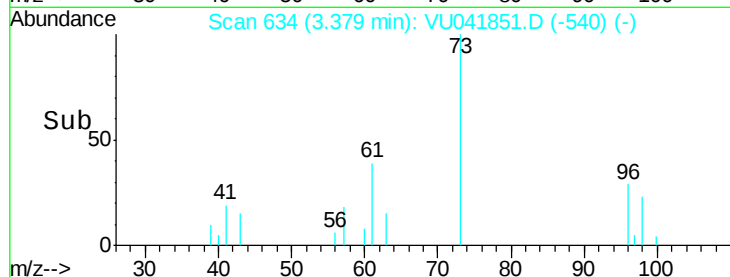
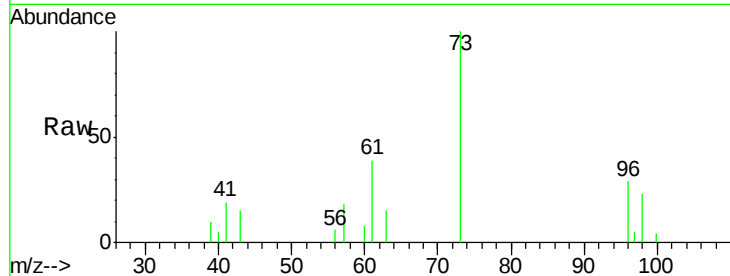
#17
Methvl tert-butvl Ether
Concen: 0.176 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2021-01

Tot Ion: 73 Resp: 5258
Ion Ratio Lower Upper
73 100
43 0.0 15.0 22.4#
57 11.7 17.3 25.9#

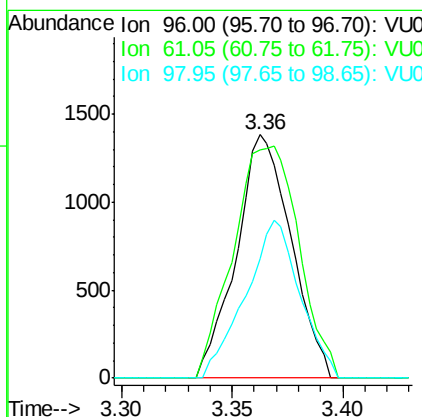
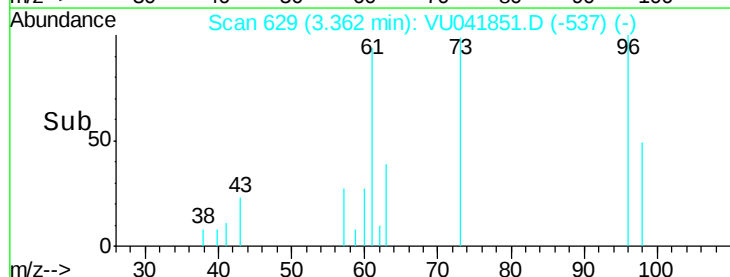
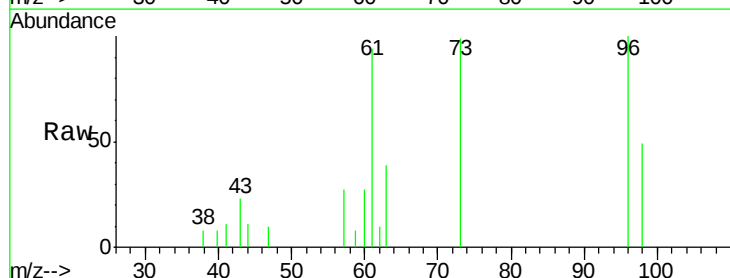
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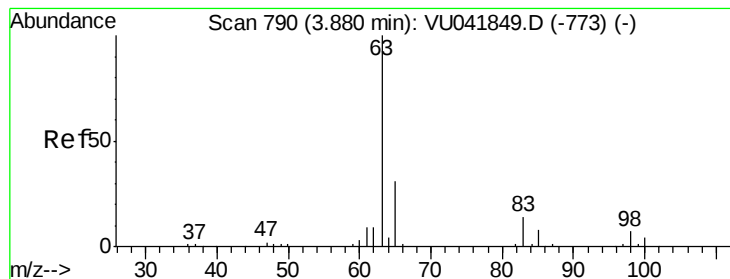
SAM
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#18
trans-1,2-Dichloroethene
Concen: 0.199 ug/L
RT: 3.36 min Scan# 629
Delta R.T. -0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Tgt Ion: 96 Resp: 2379
Ion Ratio Lower Upper
96 100
61 93.9 96.6 179.4#
98 48.9 44.7 82.9





#19

1,1-Dichloroethane

Concen: 0.169 ug/L

RT: 3.88 min Scan# 791

Delta R.T. 0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

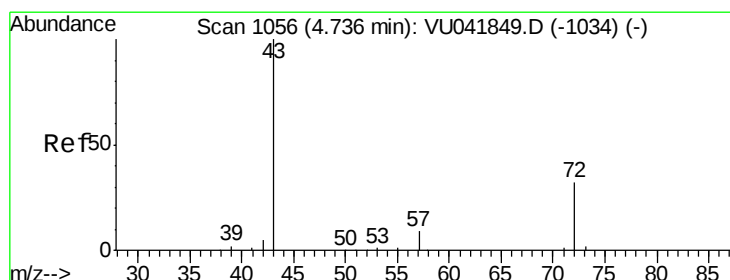
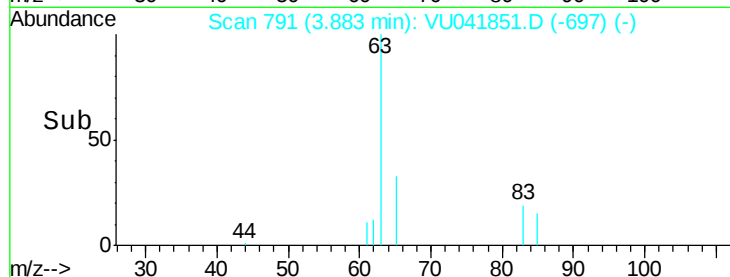
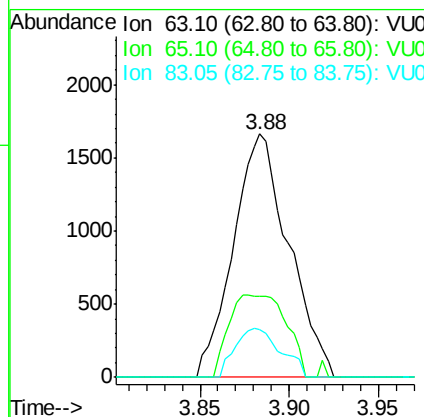
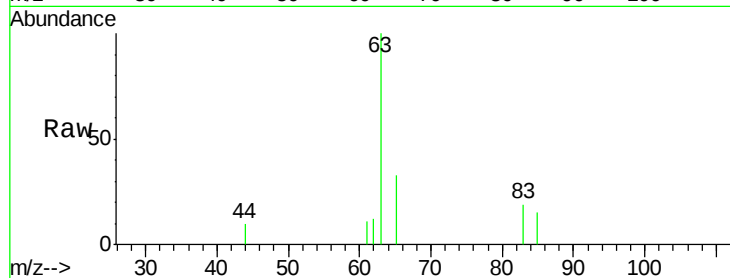
MDL-WATER-QT1-2021-01

Tot Ion:	63	Resp:	3588
Ion Ratio	Lower	Upper	
63	100		
65	33.2	23.2	43.0
83	19.4	9.9	18.3

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#21

2-Butanone

Concen: 1.912 ug/L m

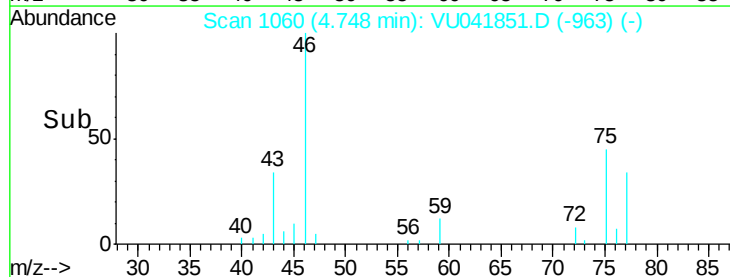
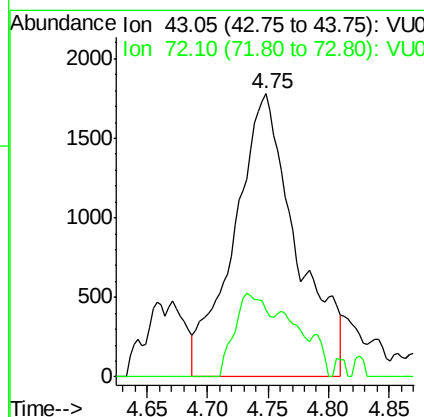
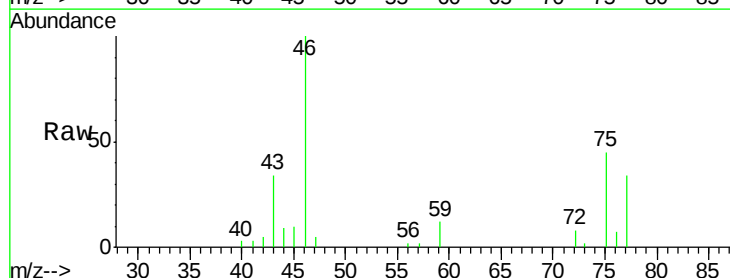
RT: 4.75 min Scan# 1060

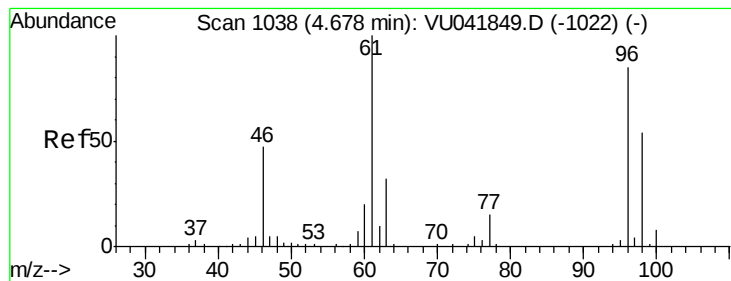
Delta R.T. 0.01 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Tgt Ion:	43	Resp:	6395
Ion Ratio	Lower	Upper	
43	100		
72	16.3	15.8	47.3





#22

cis-1,2-Dichloroethene

Concen: 0.231 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

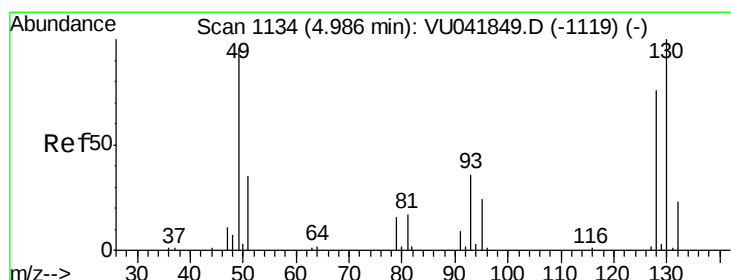
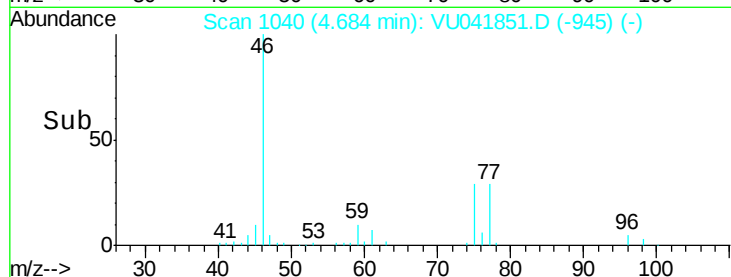
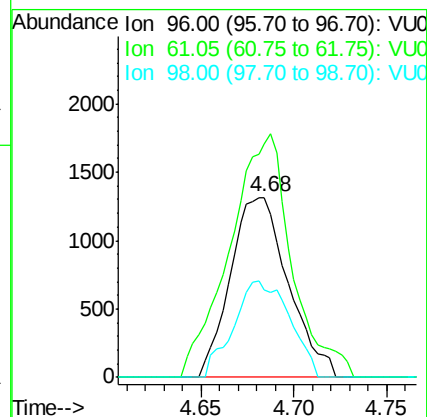
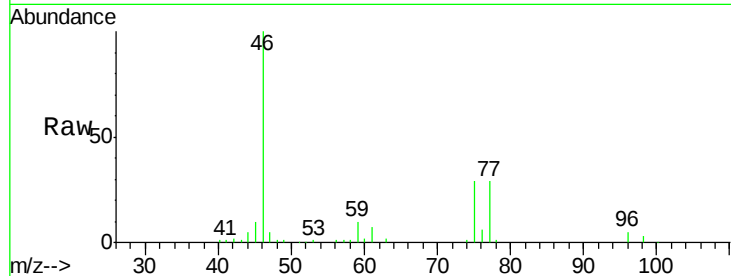
MDL-WATER-QT1-2021-01

Tot Ion:	96	Resp:	2859
Ion	Ratio	Lower	Upper
96	100		
61	129.5	87.4	162.4
98	48.6	47.7	88.5

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#23

Bromochloromethane

Concen: 0.185 ug/L

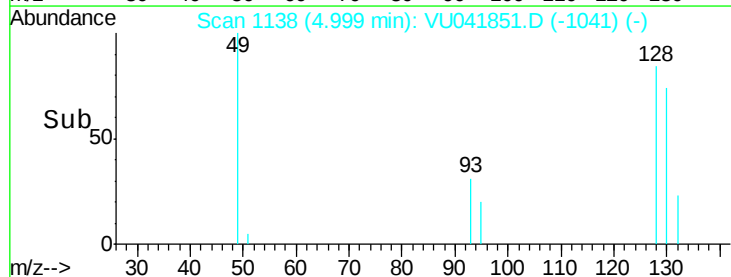
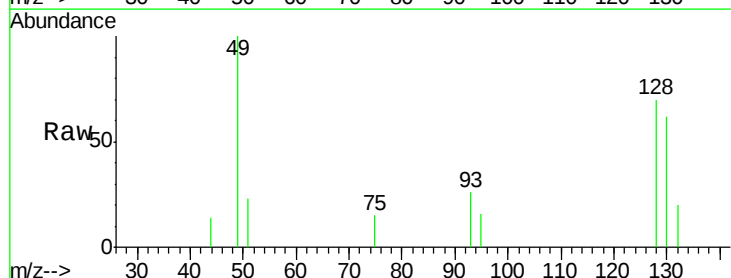
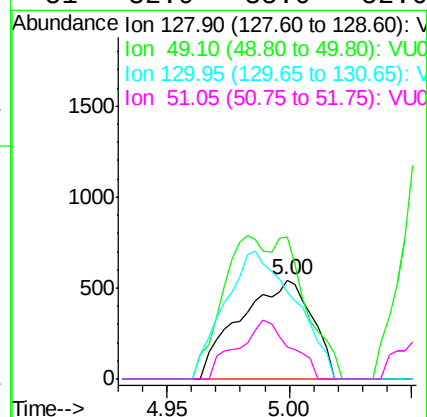
RT: 5.00 min Scan# 1138

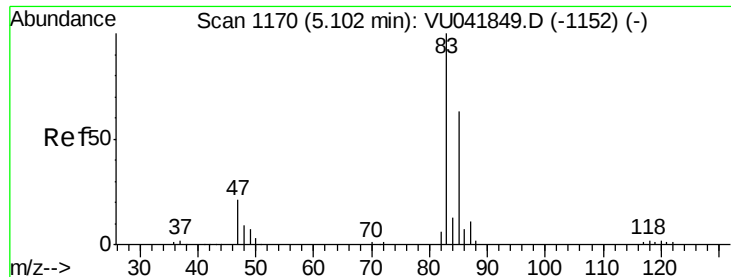
Delta R.T. 0.01 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Tgt Ion:	128	Resp:	1111
Ion	Ratio	Lower	Upper
128	100		
49	143.2	96.4	179.0
130	88.4	91.2	169.4#
51	32.9	35.0	52.6#





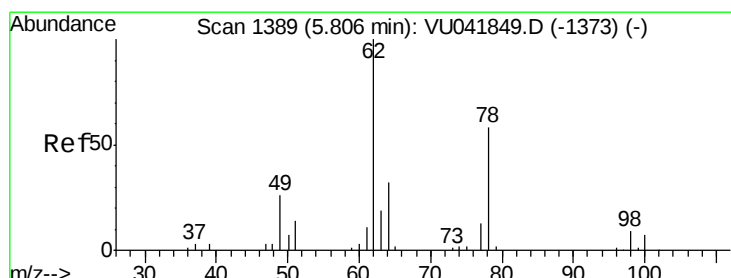
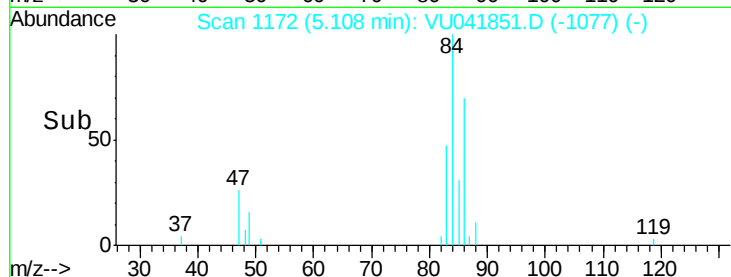
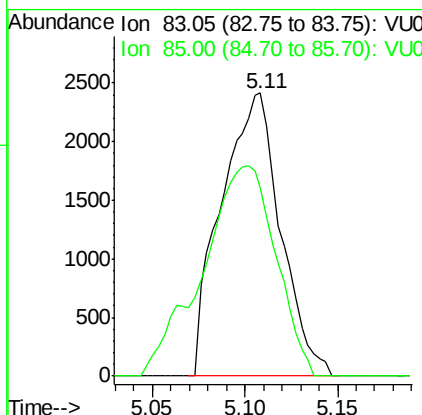
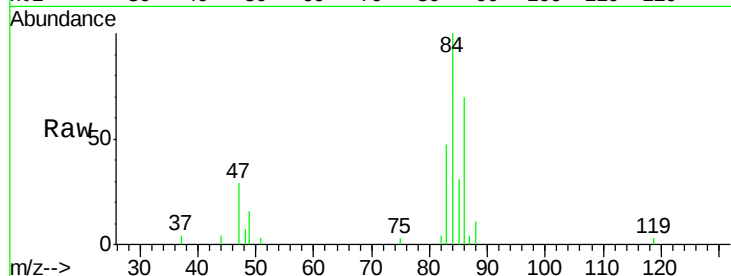
#25
Chloroform
Concen: 0.251 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.01 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2021-01

Tot Ion: 83 Resp: 5379
Ion Ratio Lower Upper
83 100
85 66.6 45.6 84.8

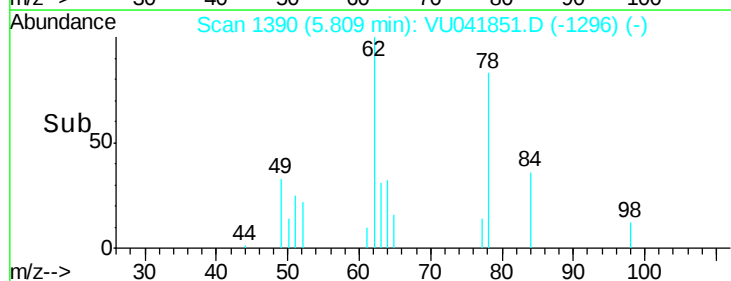
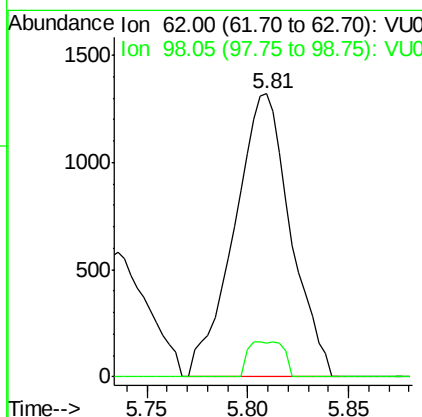
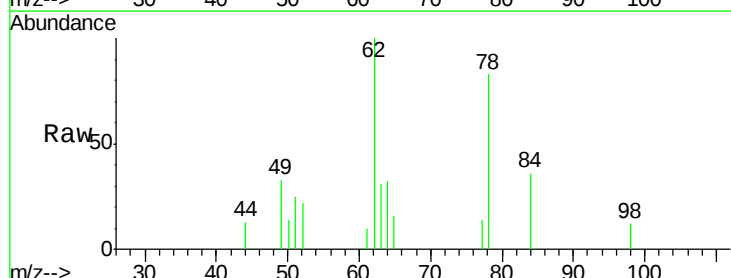
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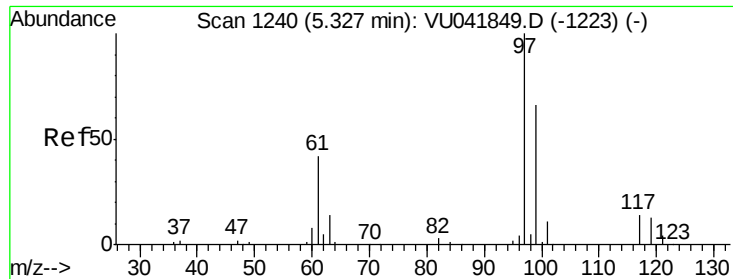
SAM
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#27
1,2-Dichloroethane
Concen: 0.184 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Tgt Ion: 62 Resp: 2568
Ion Ratio Lower Upper
62 100
98 11.8 7.5 11.3#





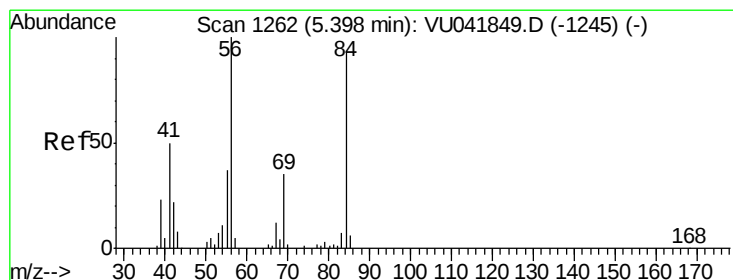
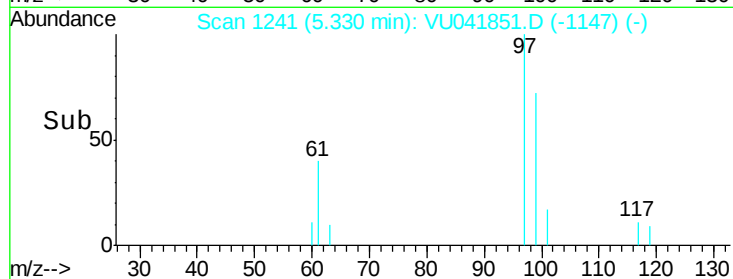
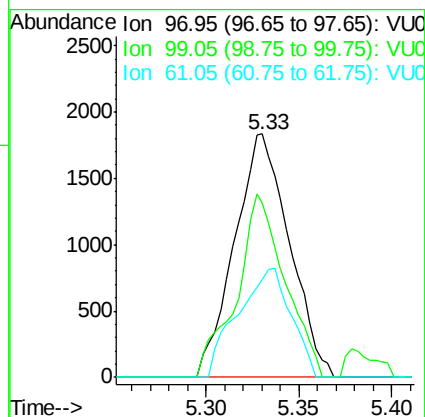
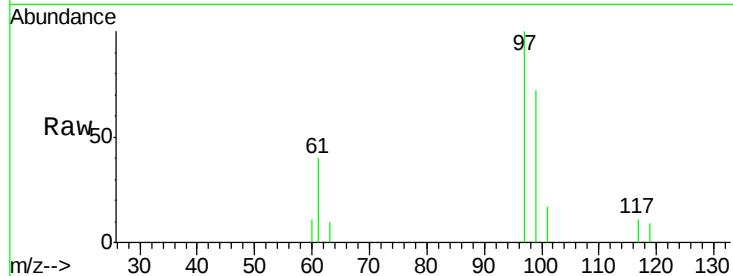
#29
1,1,1-Trichloroethane
Concen: 0.203 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2021-01

Tot Ion	Ratio	Lower	Upper
97	100		
99	66.2	50.3	75.5
61	43.4	32.7	49.1

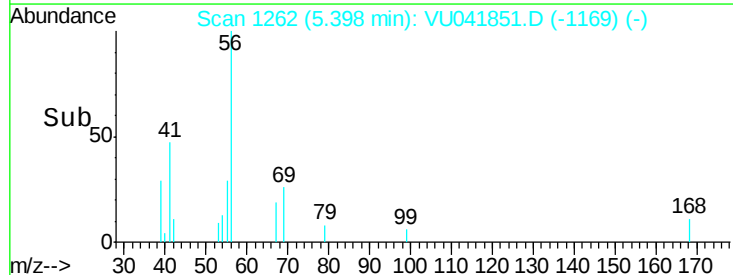
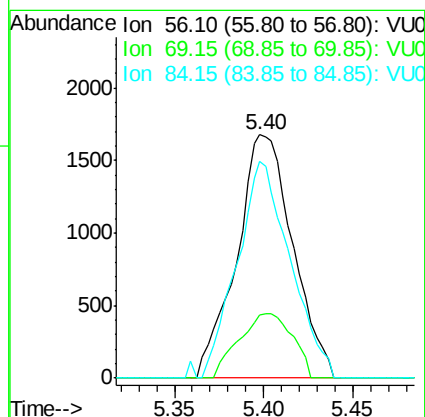
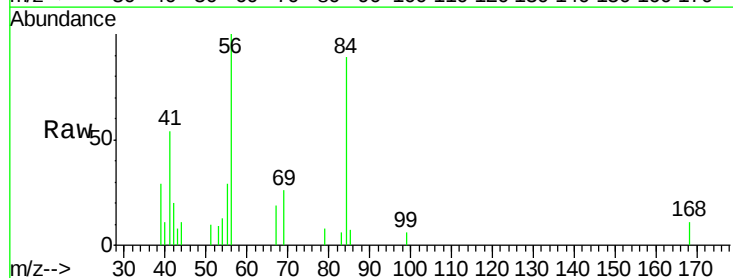
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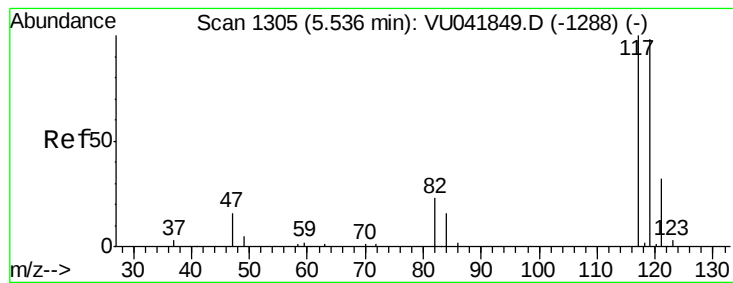
SAM
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#30
Cyclohexane
Concen: 0.215 ug/L
RT: 5.40 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Tgt Ion	Ratio	Lower	Upper
56	100		
69	25.3	25.2	37.8
84	84.1	76.2	114.4





#31

Carbon tetrachloride

Concen: 0.184 ug/L

RT: 5.53 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion:117 Resp: 3029

Ion Ratio Lower Upper

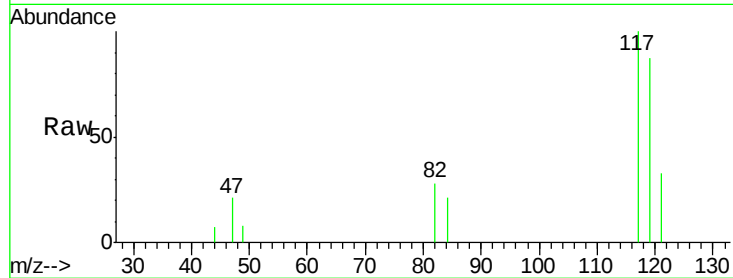
117 100

119 98.7 76.2 114.4

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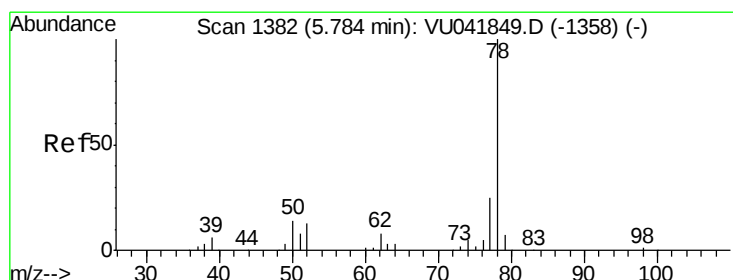
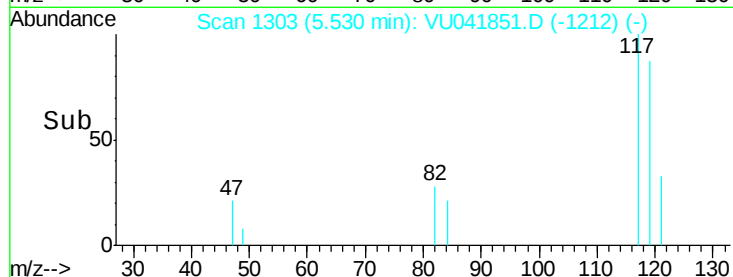
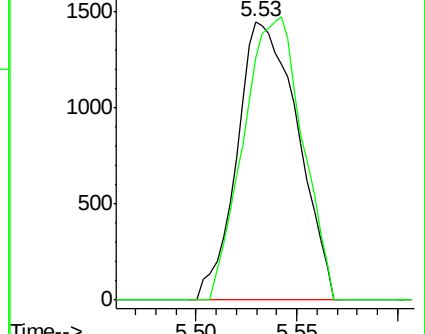
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.237 ug/L

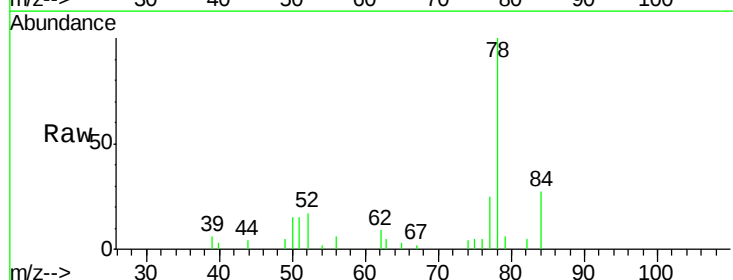
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

Lab File: VU041851.D

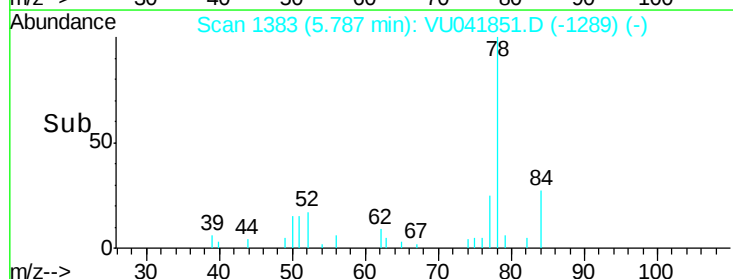
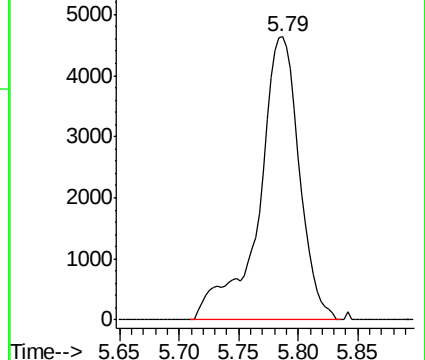
Acq: 05 Jan 2021 12:28

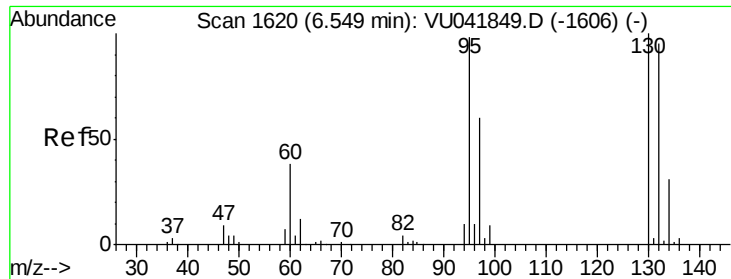
Tgt Ion: 78 Resp: 10943



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.79





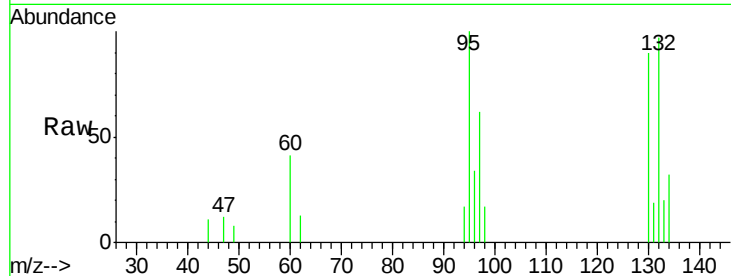
#34
 Trichloroethene
 Concen: 0.219 ug/L
 RT: 6.55 min Scan# 1620
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

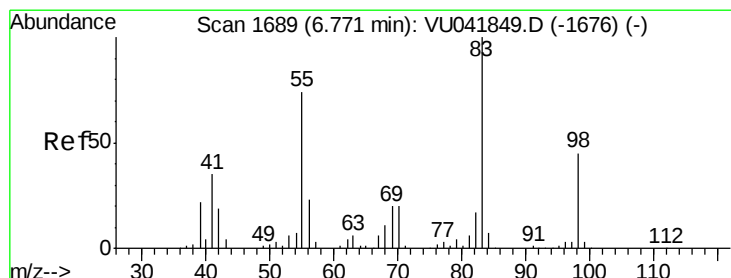
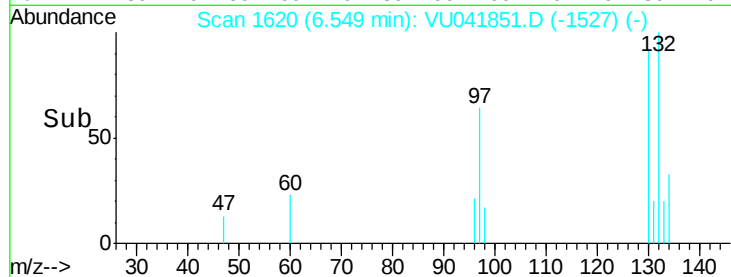
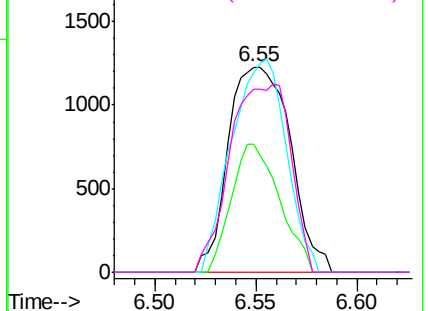
Tot Ion: 95 Resp: 2651
 Ion Ratio Lower Upper
 95 100
 97 62.3 45.8 85.2
 132 97.2 68.7 127.7
 130 89.6 70.1 130.3

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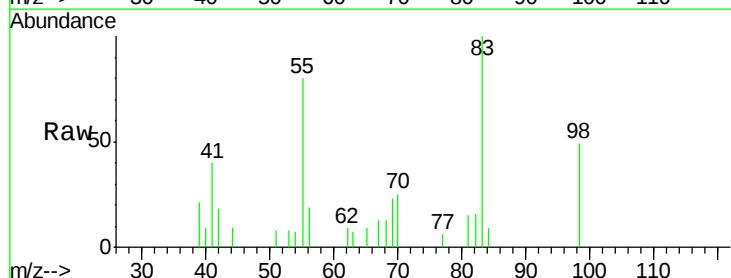


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

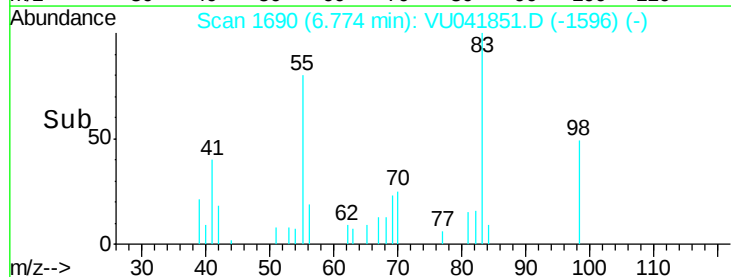
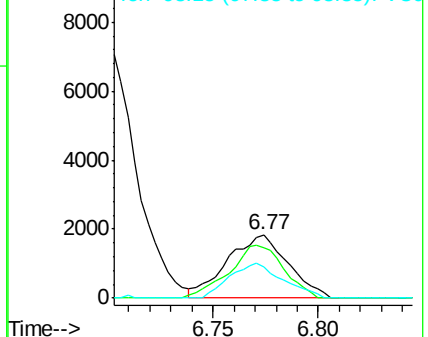


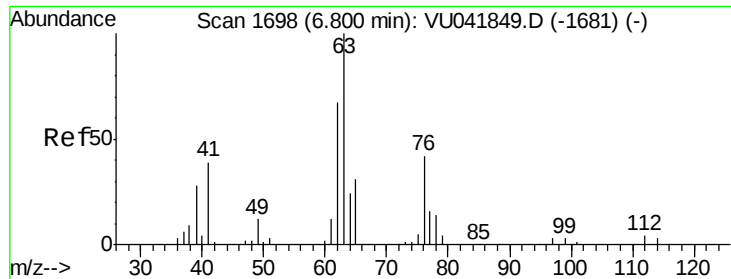
#35
 Methylcyclohexane
 Concen: 0.198 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Tgt Ion: 83 Resp: 3674
 Ion Ratio Lower Upper
 83 100
 55 75.0 59.5 89.3
 98 48.1 37.9 56.9



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0





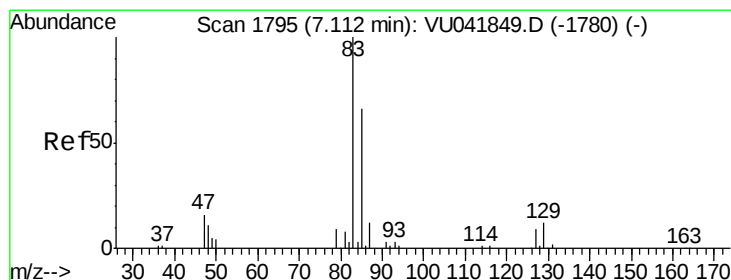
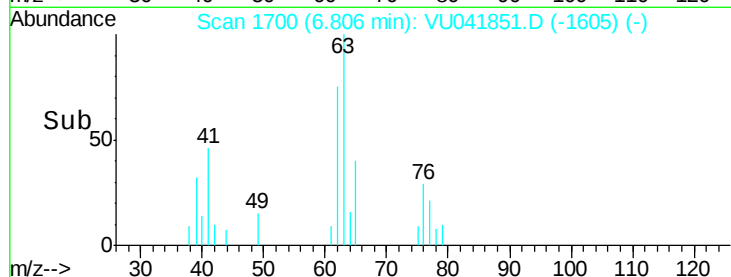
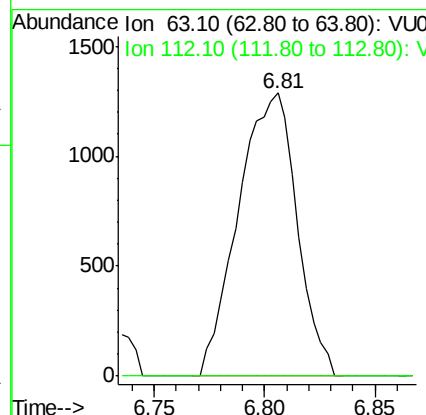
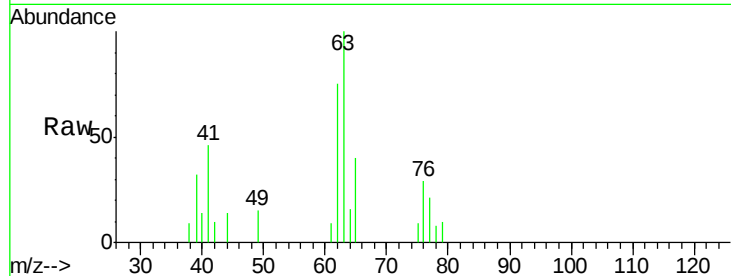
#37
 1,2-Dichloropropane
 Concen: 0.206 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.01 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

Tot Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.5	5.3#

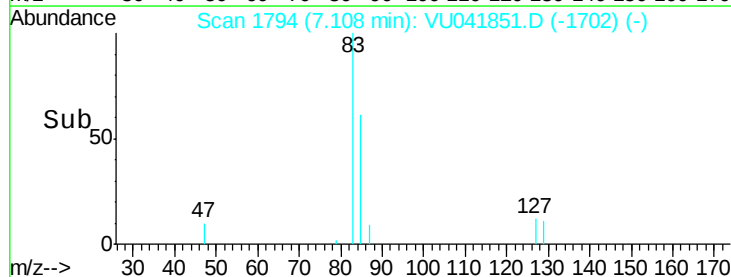
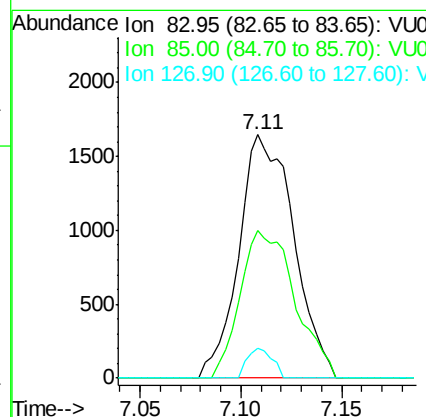
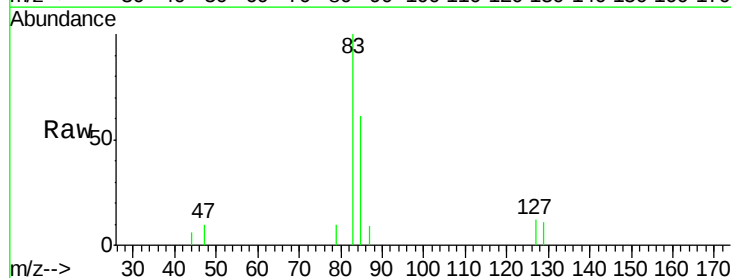
Manual Integrations
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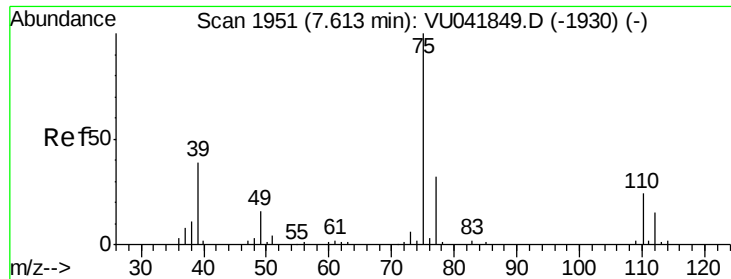
SAM
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#38
 Bromodichloromethane
 Concen: 0.208 ug/L
 RT: 7.11 min Scan# 1794
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.6	44.6	82.8
127	12.3	7.4	11.2#





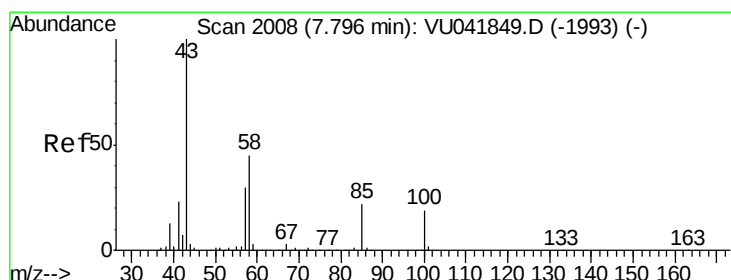
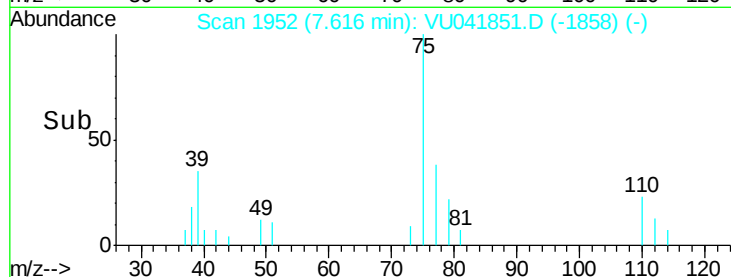
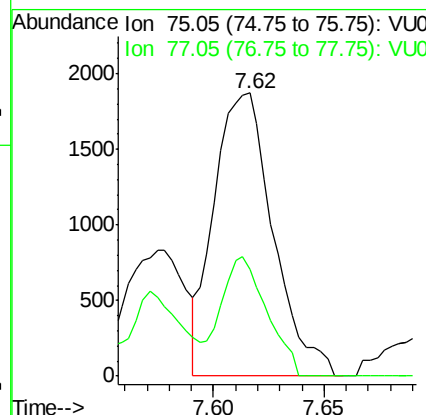
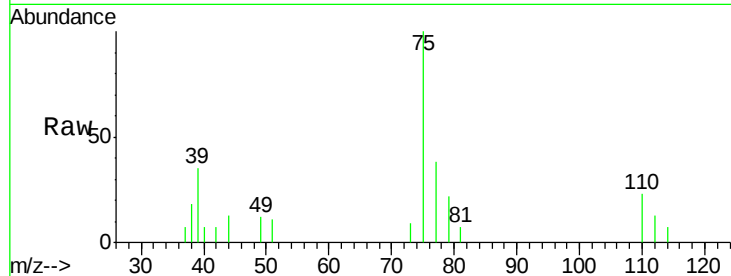
#39
 cis-1,3-Dichloropropene
 Concen: 0.202 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

Tot Ion: 75 Resp: 3476
 Ion Ratio Lower Upper
 75 100
 77 37.6 21.8 40.6

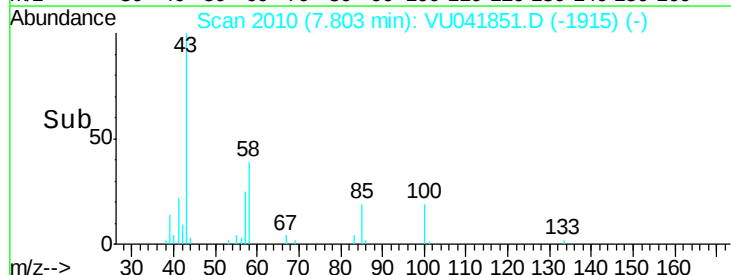
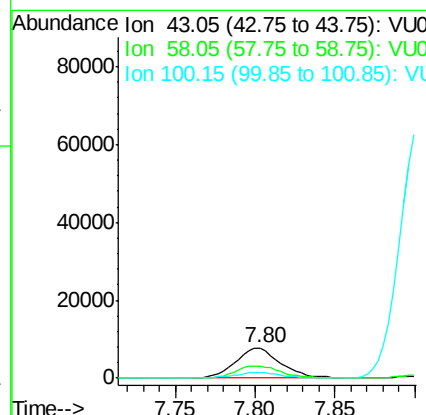
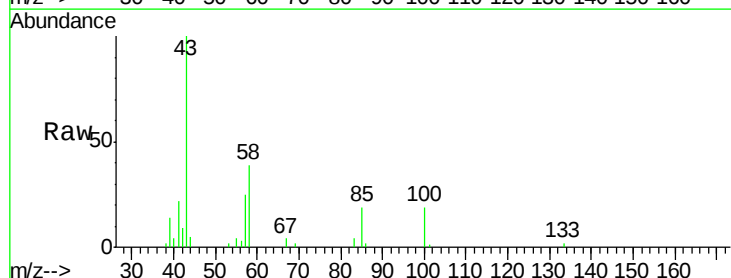
Manual Integrations
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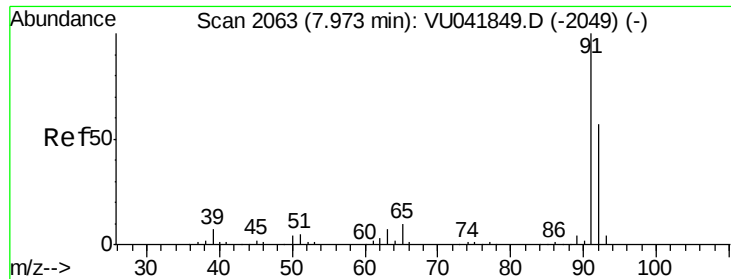
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#40
 4-Methyl-2-pentanone
 Concen: 1.993 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.01 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Tgt Ion: 43 Resp: 14668
 Ion Ratio Lower Upper
 43 100
 58 40.9 35.8 53.6
 100 0.0 15.1 22.7#





#42

Toluene

Concen: 0.207 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion: 91 Resp: 10081

Ion Ratio Lower Upper

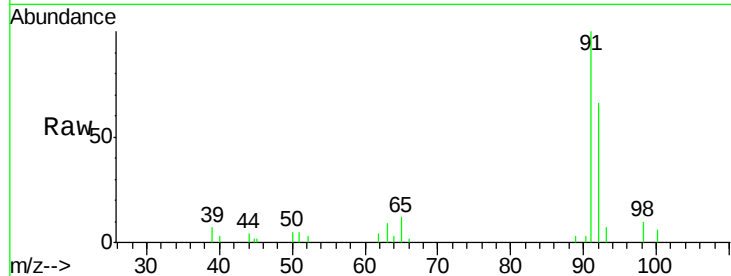
91 100

92 65.5 40.9 76.0

Manual Integrations
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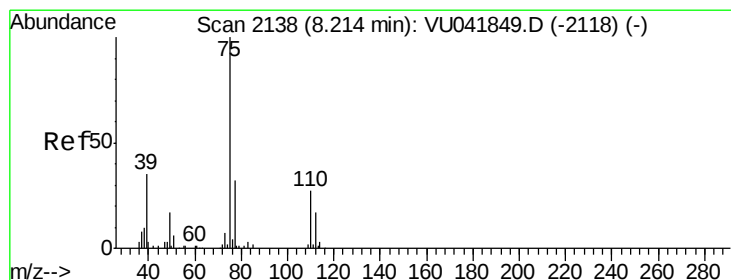
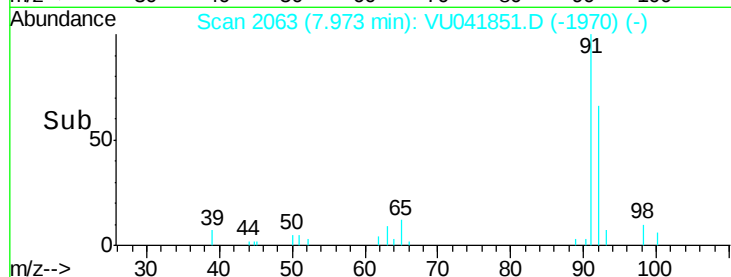
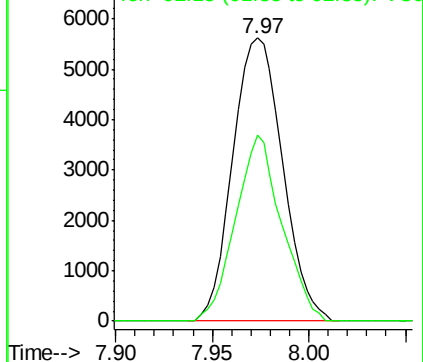
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Abundance Ion 91.15 (90.85 to 91.85): VU041849.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU041849.D (-2049) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.180 ug/L m

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU041851.D

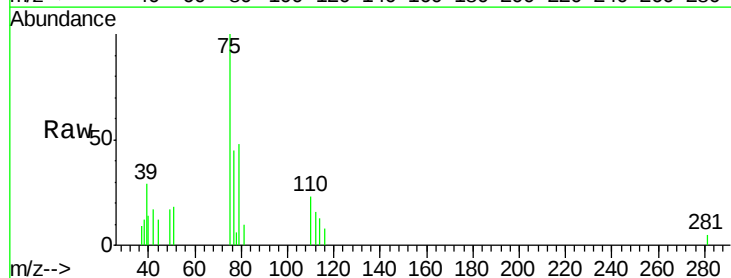
Acq: 05 Jan 2021 12:28

Tgt Ion: 75 Resp: 2843

Ion Ratio Lower Upper

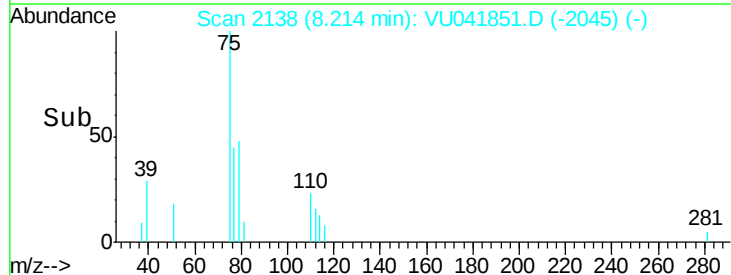
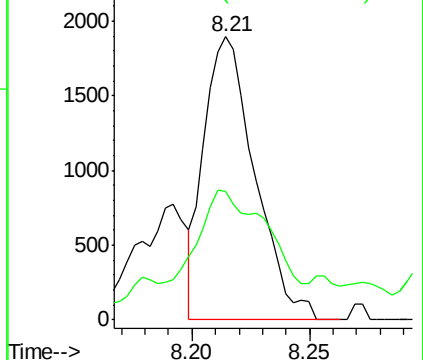
75 100

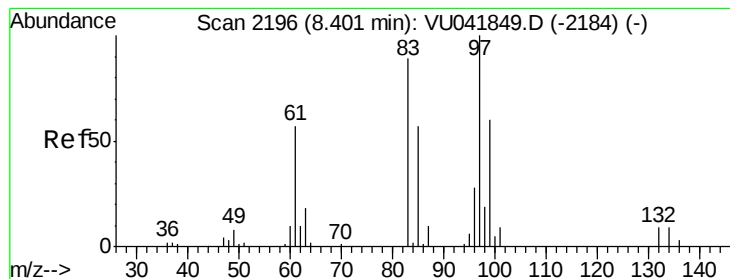
77 45.5 23.4 43.4#



Abundance Ion 75.05 (74.75 to 75.75): VU041849.D (-2118) (-)

Ion 77.05 (76.75 to 77.75): VU041849.D (-2118) (-)





#45

1,1,2-Trichloroethane

Concen: 0.176 ug/L

RT: 8.40 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

MDL-WATER-QT1-2021-01

Tot Ion: 97 Resp: 1638

Ion Ratio Lower Upper

97 100

99 50.2 44.2 82.0

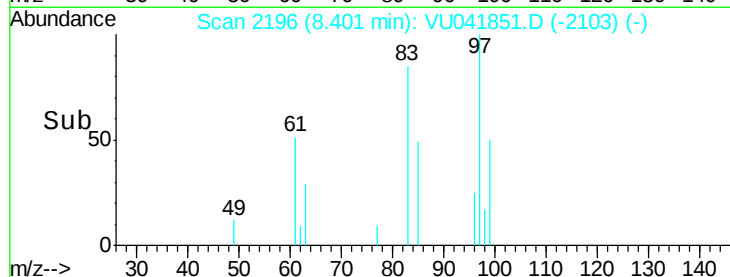
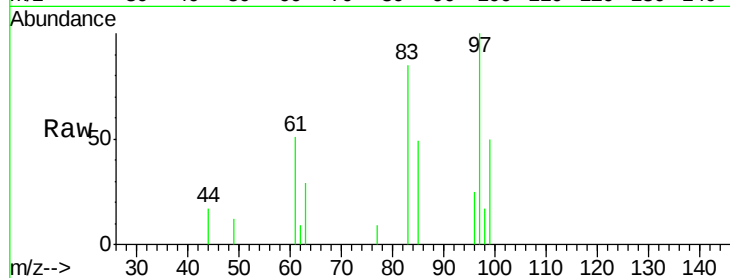
83 84.5 60.1 111.7

85 49.5 37.3 69.3

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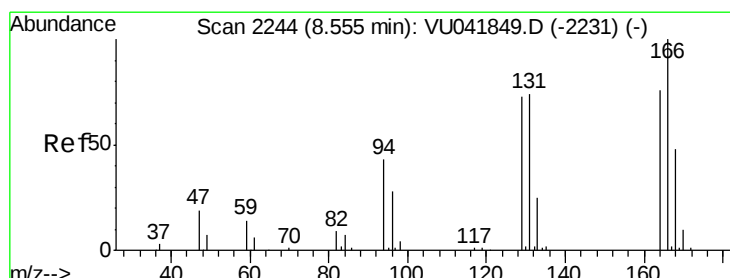
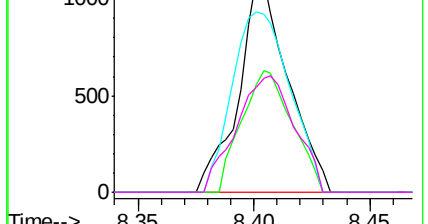


Abundance Ion 96.95 (96.65 to 97.65): VU041851.D (-2103) (-)

Ion 99.05 (98.75 to 99.75): VU041851.D (-2103) (-)

Ion 82.95 (82.65 to 83.65): VU041851.D (-2103) (-)

Ion 85.00 (84.70 to 85.70): VU041851.D (-2103) (-)



#47

Tetrachloroethene

Concen: 0.228 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Tgt Ion: 164 Resp: 2155

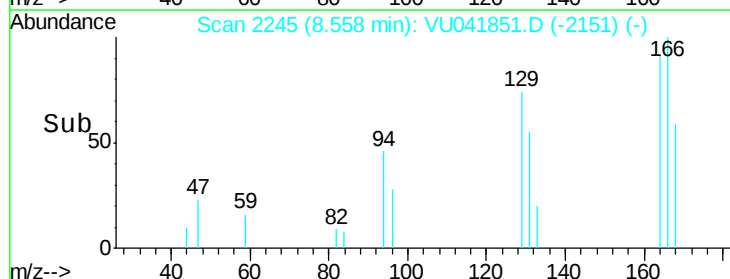
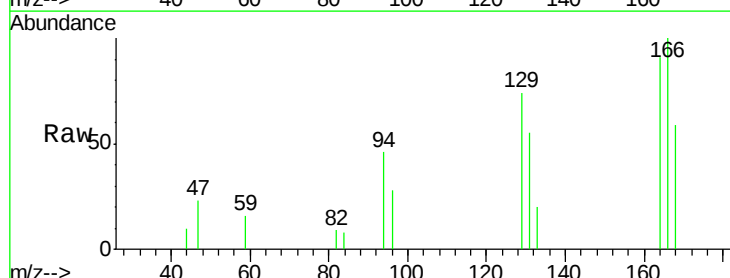
Ion Ratio Lower Upper

164 100

129 81.6 66.6 123.8

131 60.6 65.9 122.3#

166 109.6 93.7 173.9

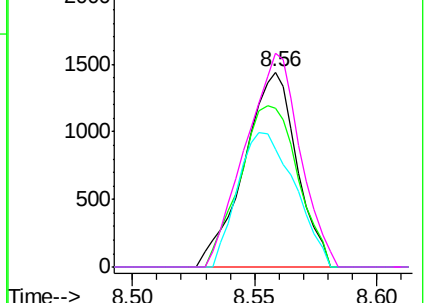


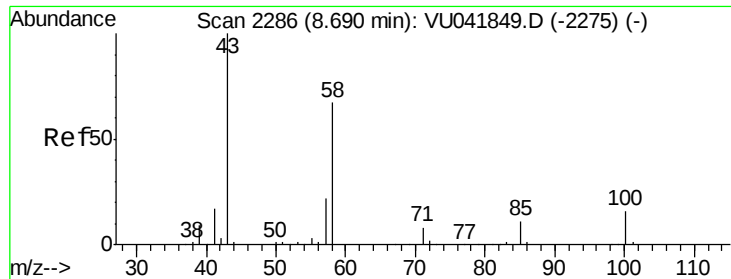
Abundance Ion 163.90 (163.60 to 164.60): VU041851.D (-2151) (-)

Ion 128.95 (128.65 to 129.65): VU041851.D (-2151) (-)

Ion 130.95 (130.65 to 131.65): VU041851.D (-2151) (-)

Ion 165.90 (165.60 to 166.60): VU041851.D (-2151) (-)





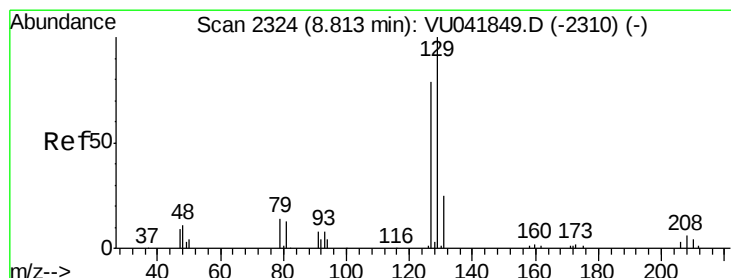
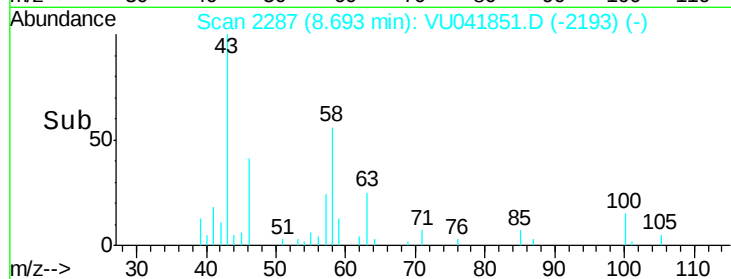
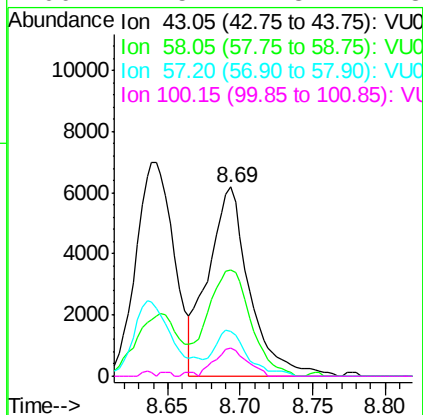
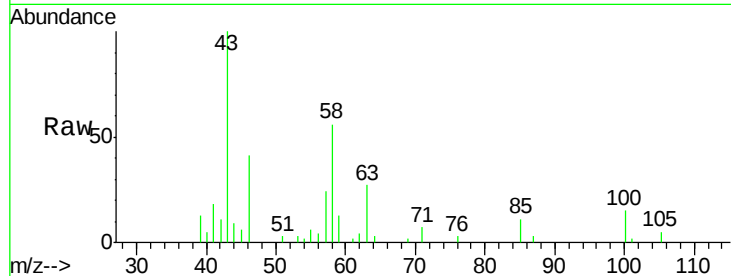
#48
2-Hexanone
Concen: 2.282 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2021-01

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.8	50.0	75.0
57	19.6	17.4	26.0
100	11.5	11.8	17.8

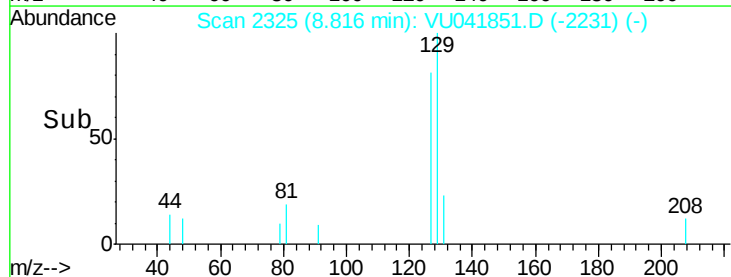
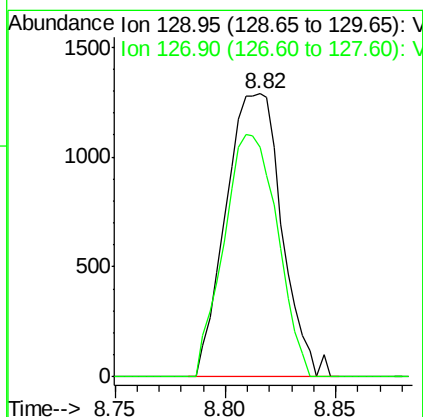
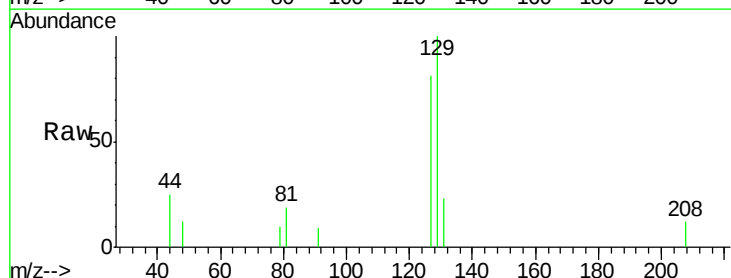
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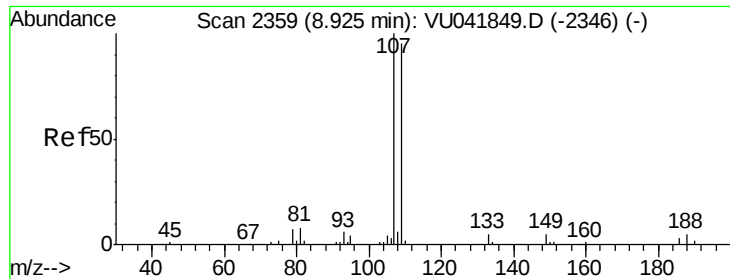
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#49
Dibromochloromethane
Concen: 0.203 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.9	56.6	105.2





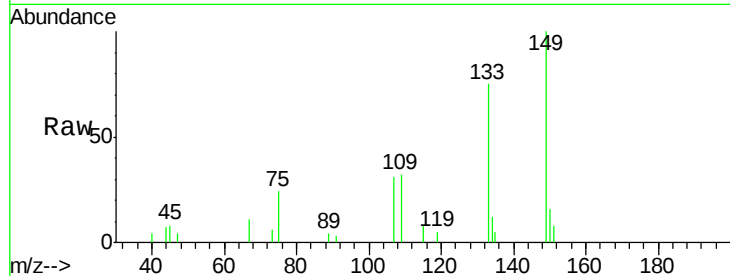
#50
1,2-Dibromoethane
Concen: 0.182 ug/L
RT: 8.92 min Scan# 2359
Delta R.T. -0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2021-01

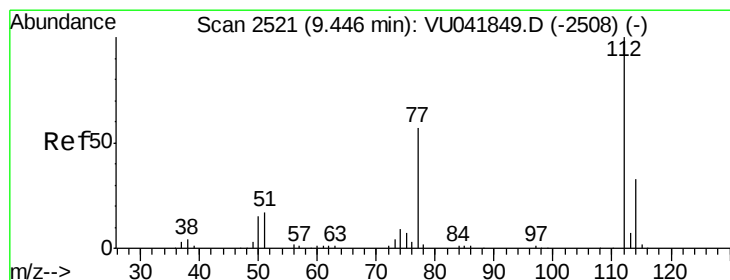
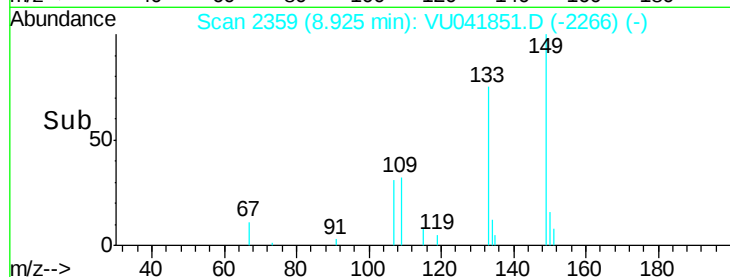
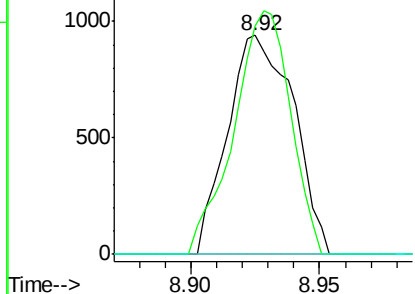
Tot Ion	Ratio	Lower	Upper
107	100		
109	104.0	65.4	121.4
188	0.0	2.5	3.7#

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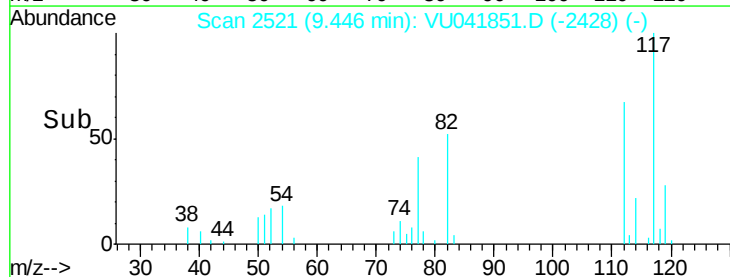
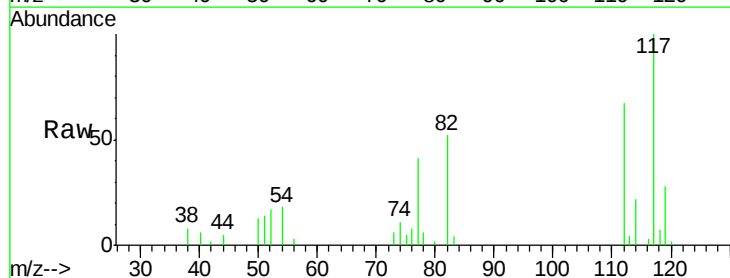
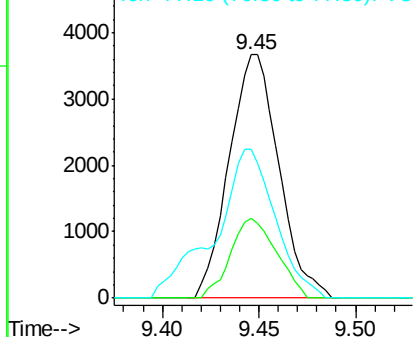
Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

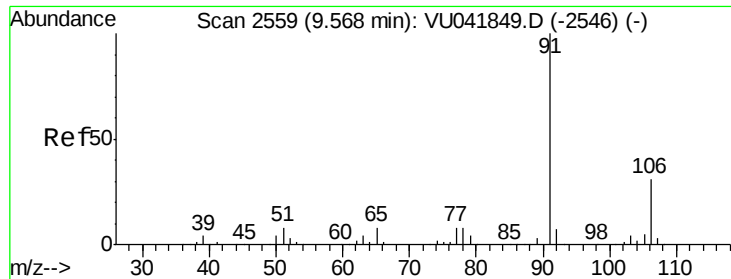


#51
Chlorobenzene
Concen: 0.204 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	21.9	40.7
77	61.0	45.1	67.7

Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.191 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Tot Ion: 91 Resp: 9721

Ion Ratio Lower Upper

91 100

106 29.7 22.0 40.8

Instrument :

MSVOA_U

ClientSampleId :

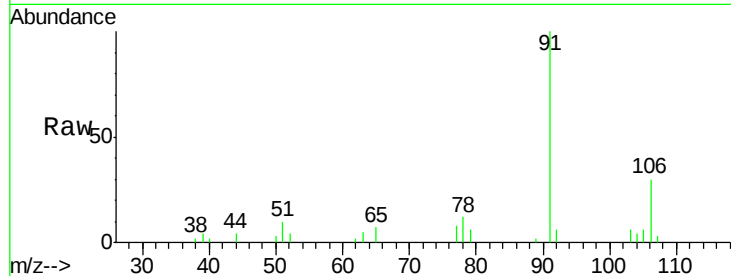
MDL-WATER-QT1-2021-01

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Abundance Ion 91.15 (90.85 to 91.85): VU041851.D (-2546) (-)

Ion 106.15 (105.85 to 106.85): VU041851.D (-2546) (-)

9.57

6000

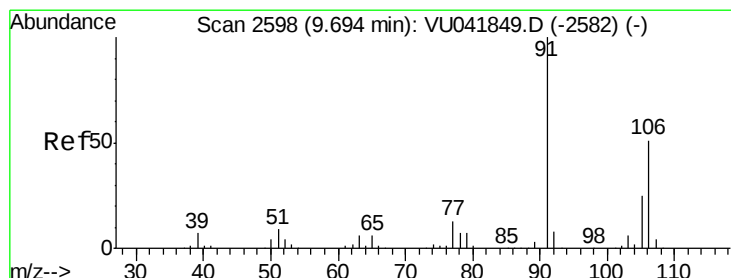
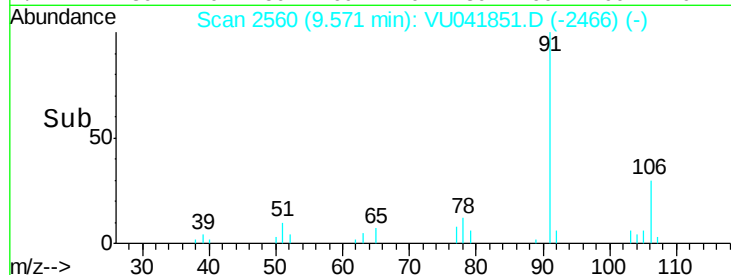
4000

2000

0

9.55 9.60

Time-->



#53

m,p-Xylene

Concen: 0.175 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU041851.D

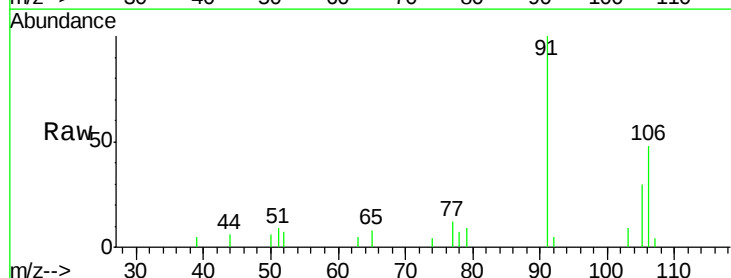
Acq: 05 Jan 2021 12:28

Tgt Ion: 106 Resp: 3500

Ion Ratio Lower Upper

106 100

91 207.7 137.6 255.6



Abundance Ion 106.15 (105.85 to 106.85): VU041851.D (-2582) (-)

Ion 91.15 (90.85 to 91.85): VU041851.D (-2582) (-)

9.70

5000

4000

3000

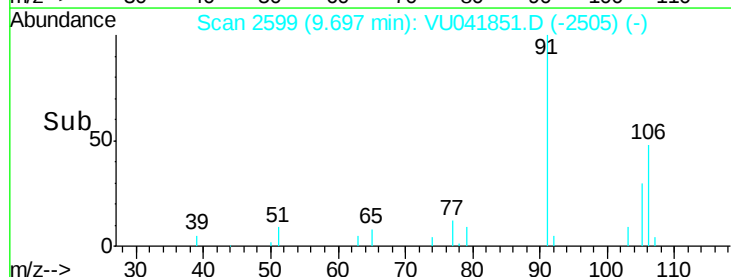
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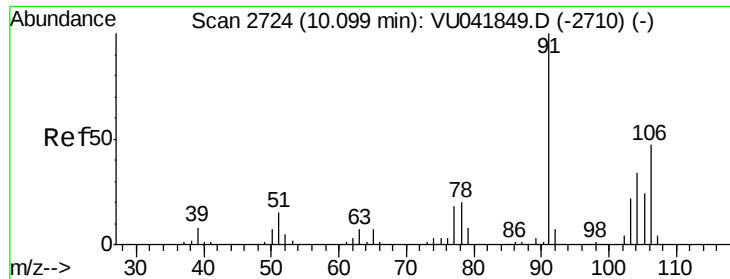
1000

0

9.65 9.70 9.75

Time-->





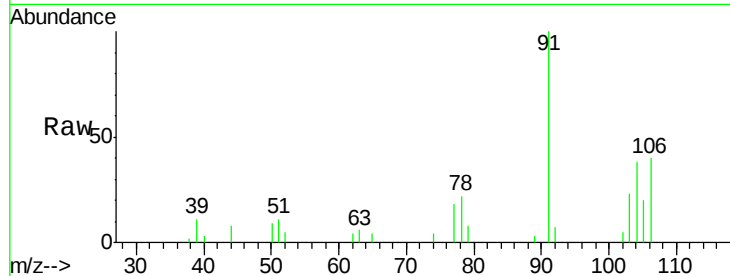
#54
o-Xylene
Concen: 0.166 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Instrument :
MSVOA_U
ClientSampleId :
MDL-WATER-QT1-2021-01

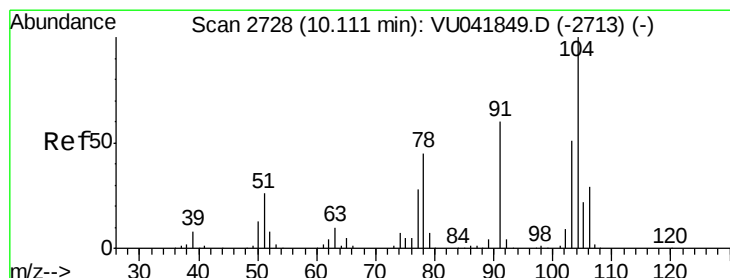
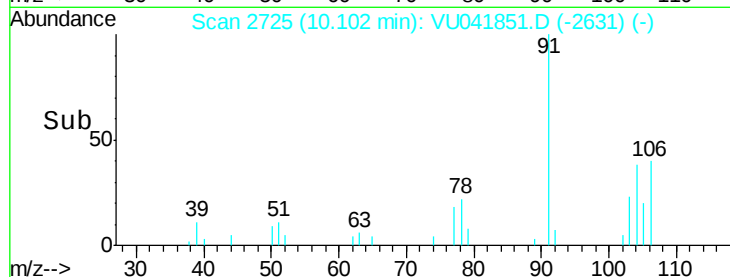
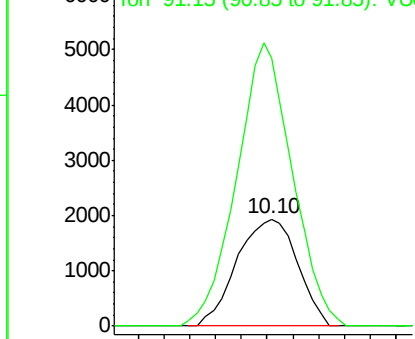
Tot Ion:106 Resp: 3163
Ion Ratio Lower Upper
106 100
91 249.6 148.5 275.9

Manual Integrations
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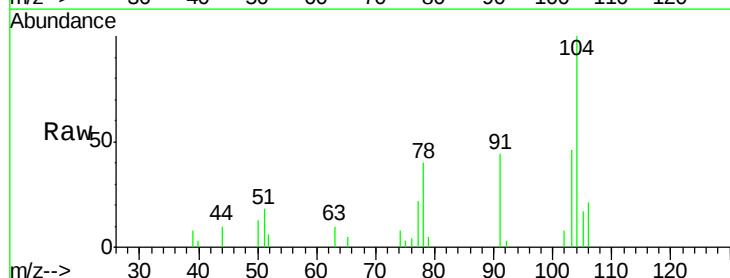


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

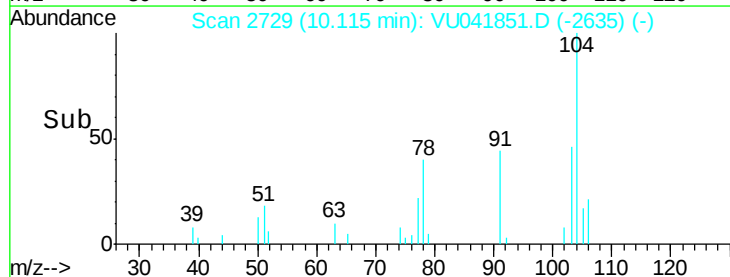
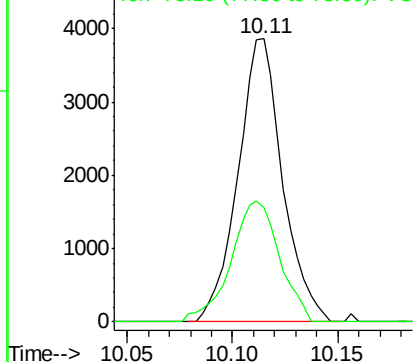


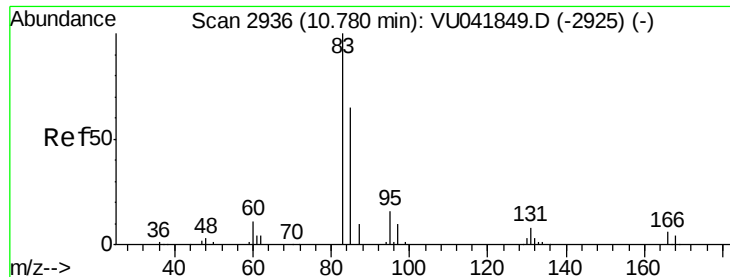
#55
Styrene
Concen: 0.174 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU041851.D
Acq: 05 Jan 2021 12:28

Tgt Ion:104 Resp: 5686
Ion Ratio Lower Upper
104 100
78 40.3 32.3 60.1



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





#57

1,1,2,2-Tetrachloroethane

Concen: 0.205 ug/L

RT: 10.78 min Scan# 2935

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

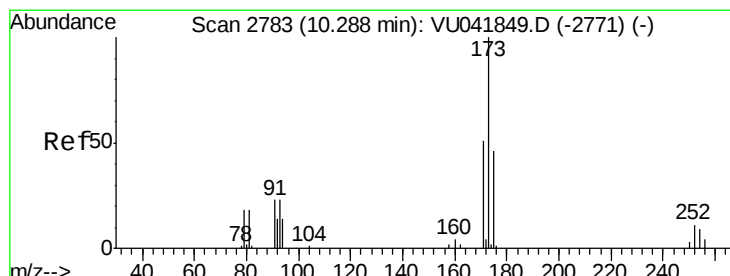
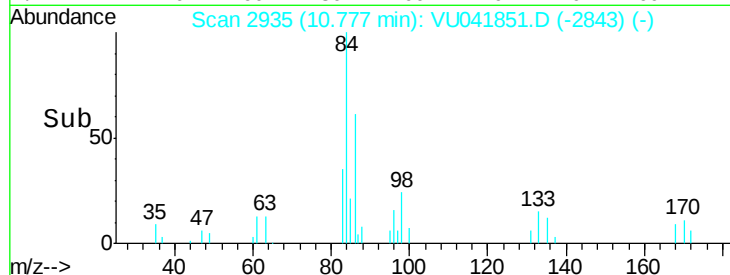
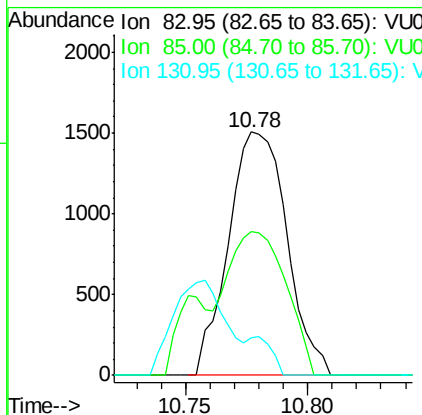
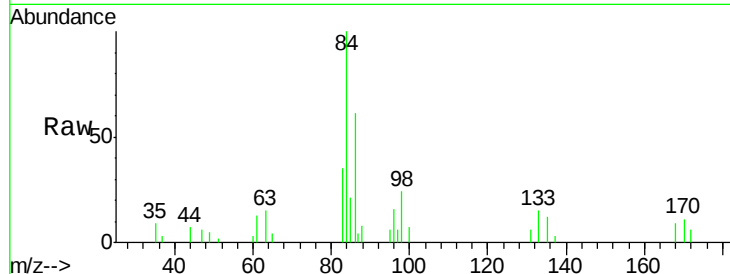
MDL-WATER-QT1-2021-01

Tot Ion:	83	Resp:	2506
Ion	Ratio	Lower	Upper
83	100		
85	58.8	44.9	83.5
131	15.6	8.2	12.4#

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#59

Bromoform

Concen: 0.196 ug/L

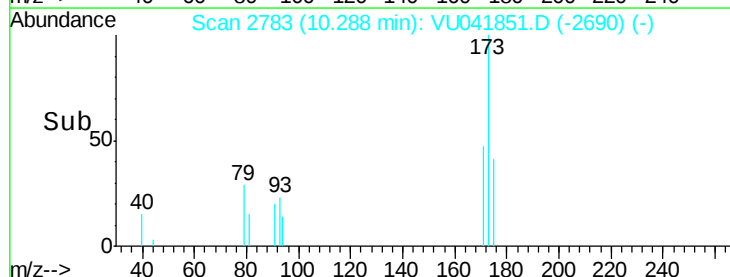
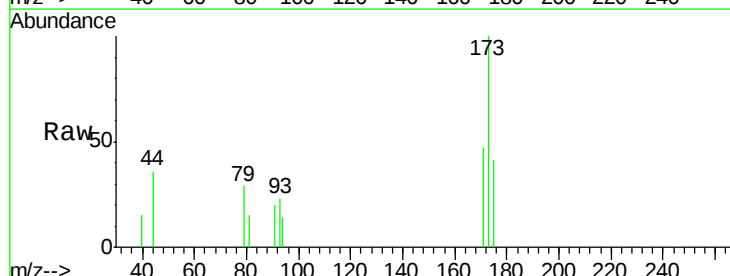
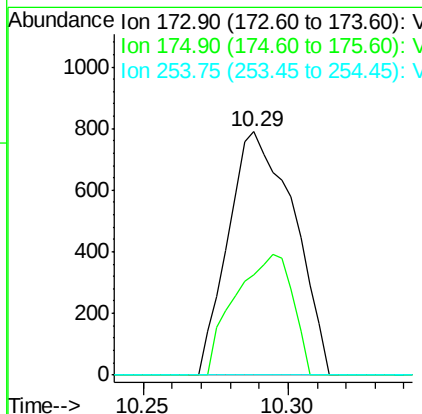
RT: 10.29 min Scan# 2783

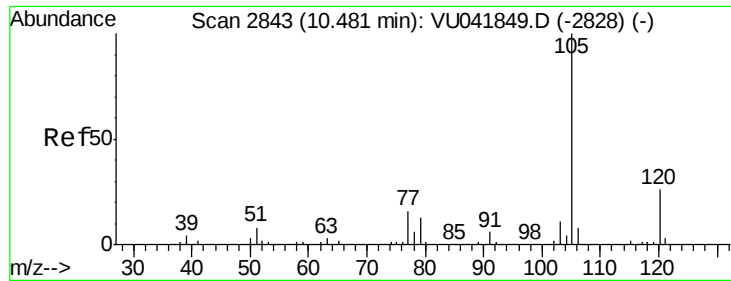
Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Tgt Ion:	173	Resp:	1239
Ion	Ratio	Lower	Upper
173	100		
175	43.7	39.4	59.0
254	0.0	8.0	12.0#





#60

Isopropylbenzene

Concen: 0.200 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

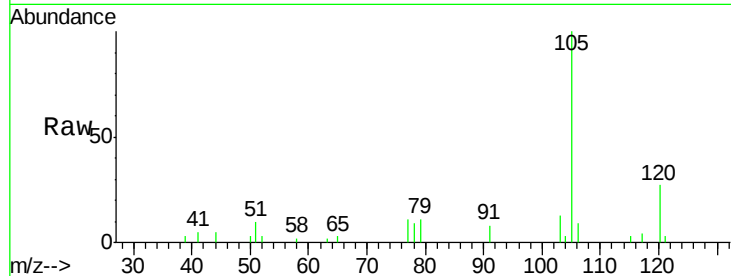
MDL-WATER-QT1-2021-01

Tot Ion:	105	Resp:	9182
Ion Ratio	Lower	Upper	
105	100		
120	25.8	20.9	31.3
77	12.1	11.8	17.8

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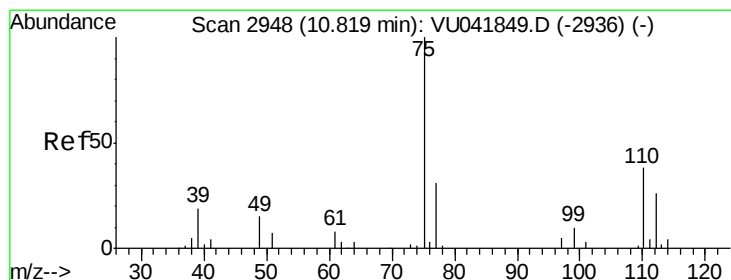
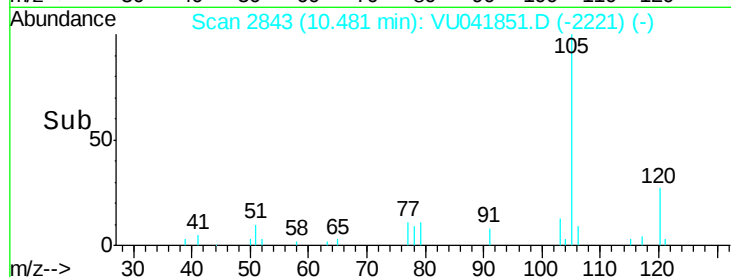
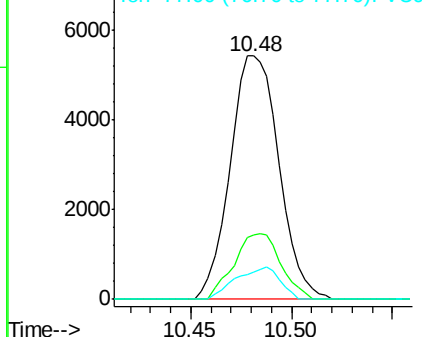
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 0.182 ug/L

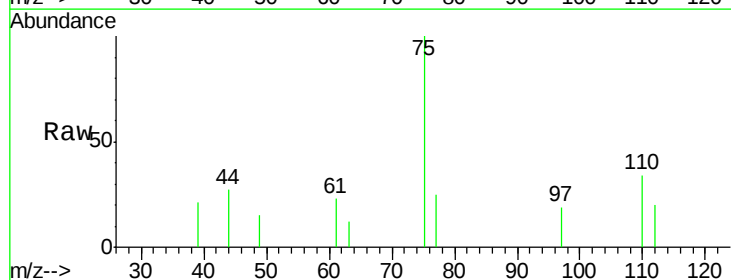
RT: 10.82 min Scan# 2948

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

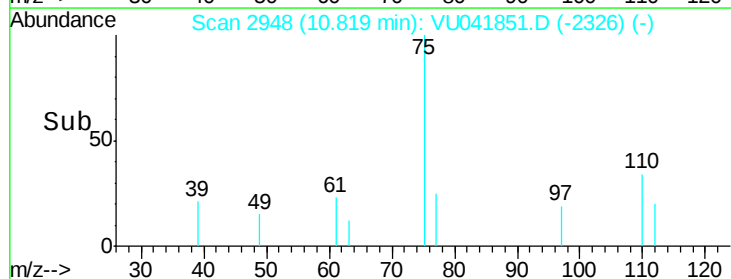
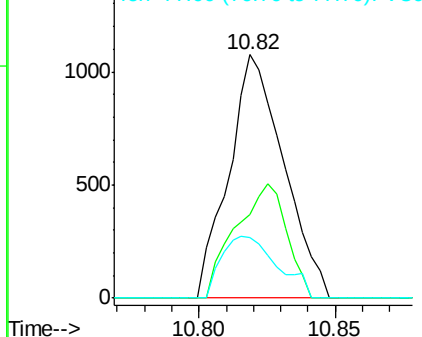
Tgt Ion:	75	Resp:	1503
Ion Ratio	Lower	Upper	
75	100		
110	43.8	31.5	47.3
77	25.9	26.3	39.5#

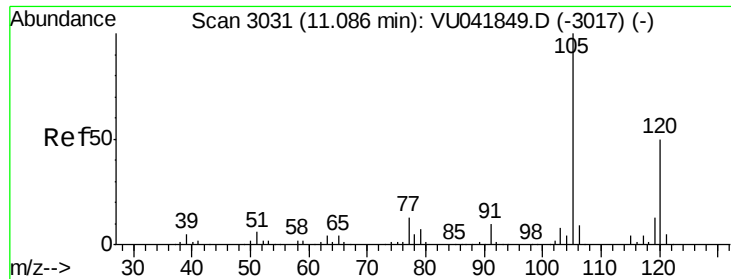


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): V





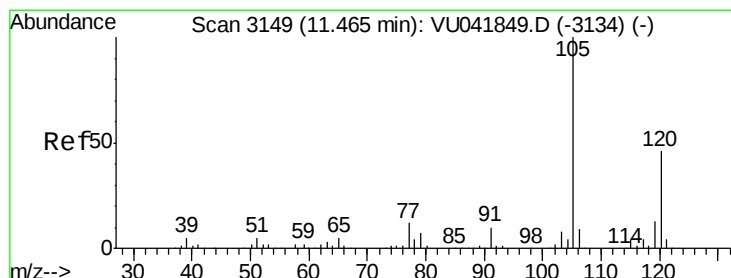
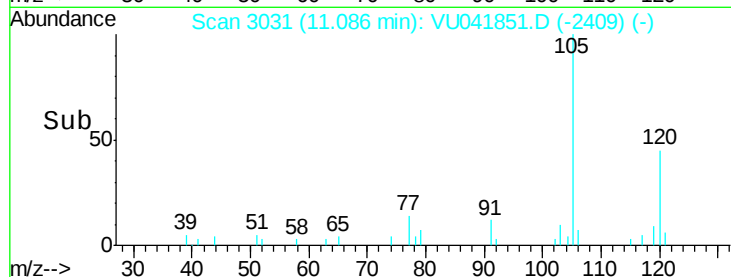
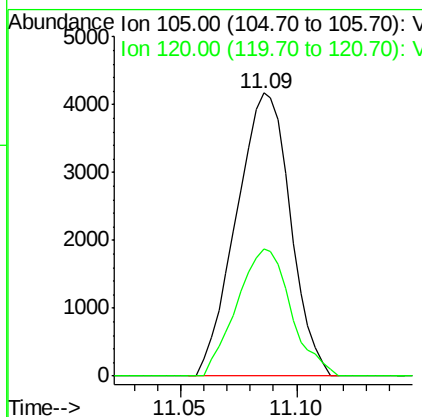
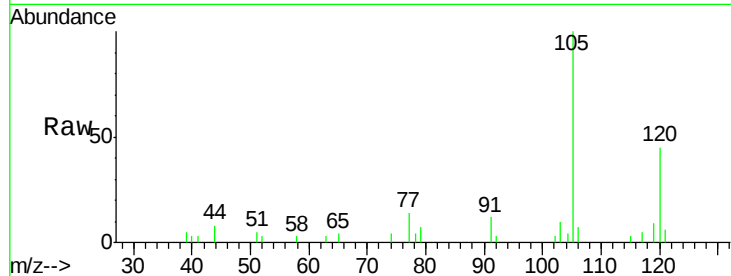
#62
 1,3,5-Trimethylbenzene
 Concen: 0.179 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

Tot Ion:105 Resp: 6762
 Ion Ratio Lower Upper
 105 100
 120 44.9 39.5 59.3

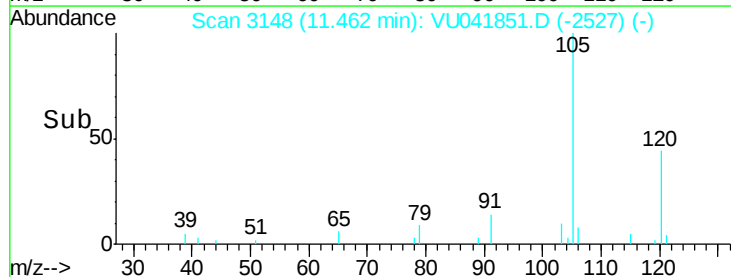
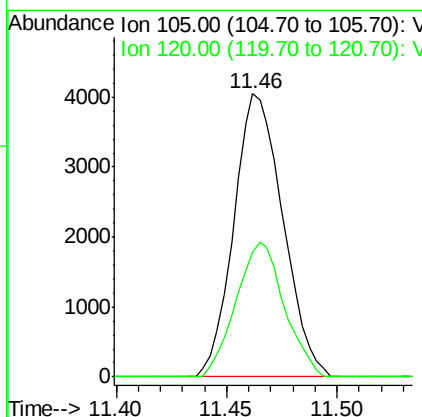
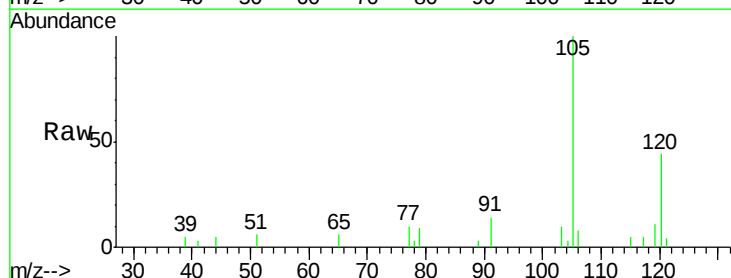
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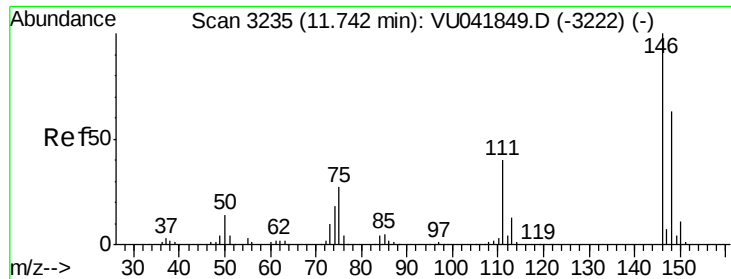
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.167 ug/L
 RT: 11.46 min Scan# 3148
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Tgt Ion:105 Resp: 6239
 Ion Ratio Lower Upper
 105 100
 120 46.8 36.7 55.1





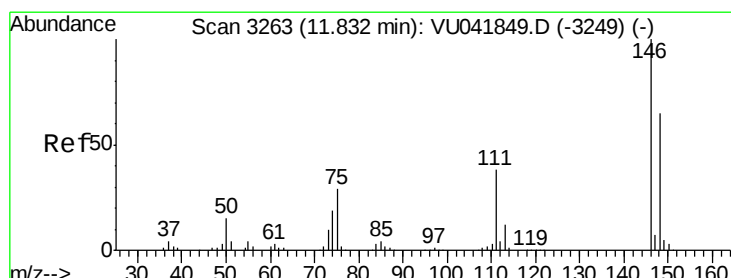
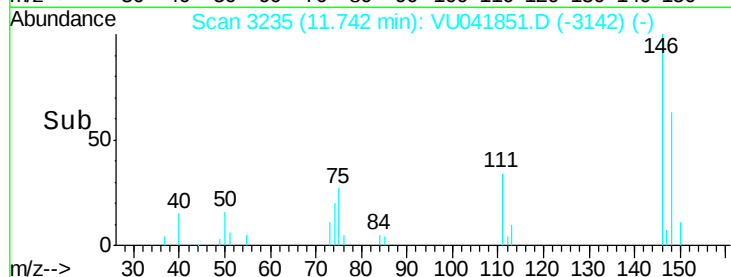
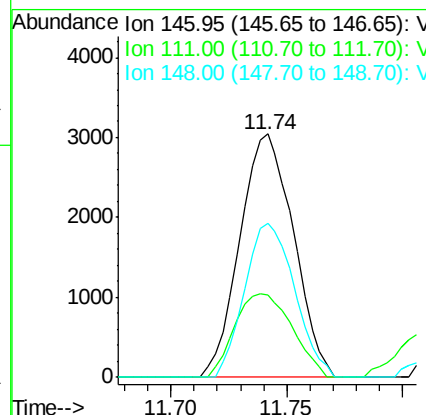
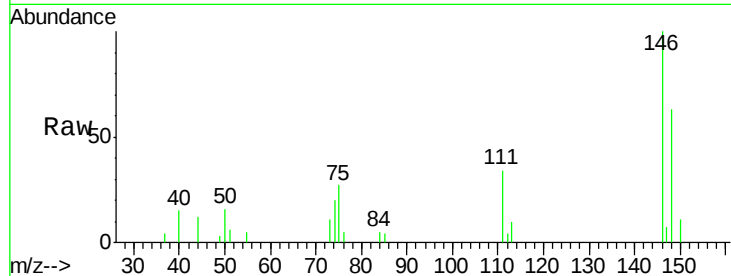
#64
 1,3-Dichlorobenzene
 Concen: 0.220 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.6	27.6	51.2
148	63.5	44.9	83.3

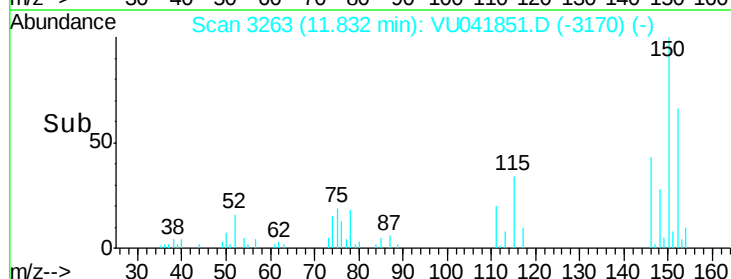
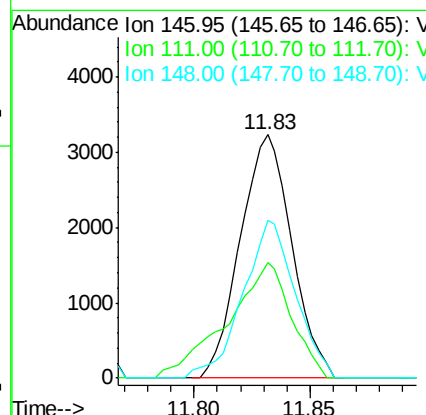
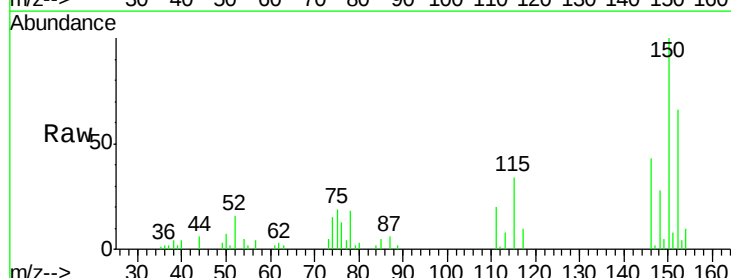
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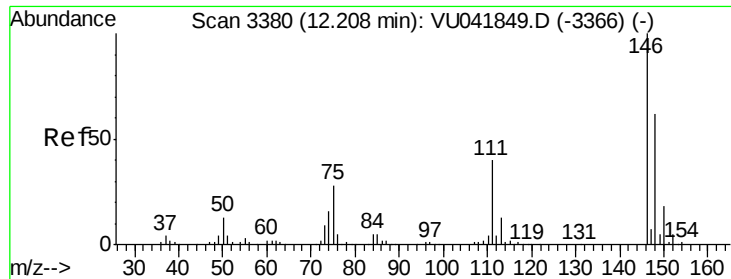
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#65
 1,4-Dichlorobenzene
 Concen: 0.221 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.4	26.7	49.5
148	64.8	43.9	81.5





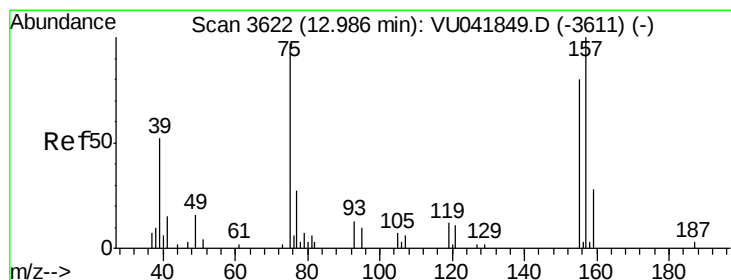
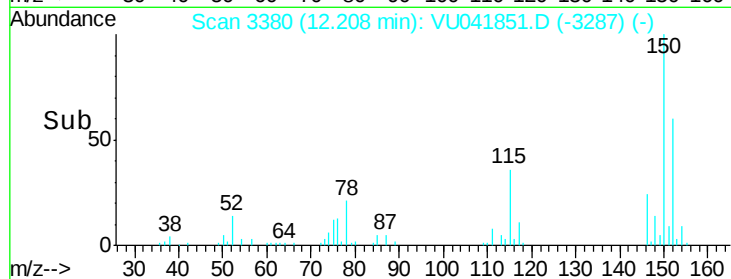
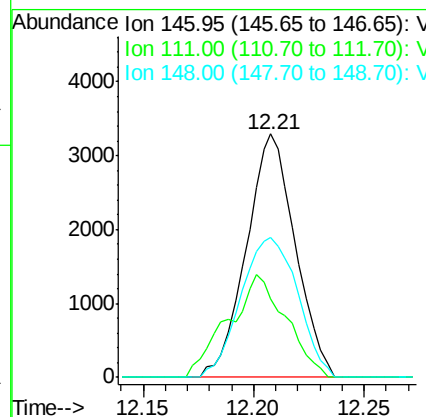
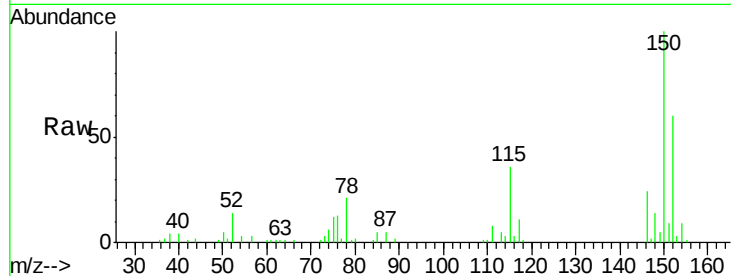
#67
 1,2-Dichlorobenzene
 Concen: 0.229 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

Tot Ion	Ratio	Lower	Upper
146	100		
111	32.3	31.9	47.9
148	57.2	48.8	73.2

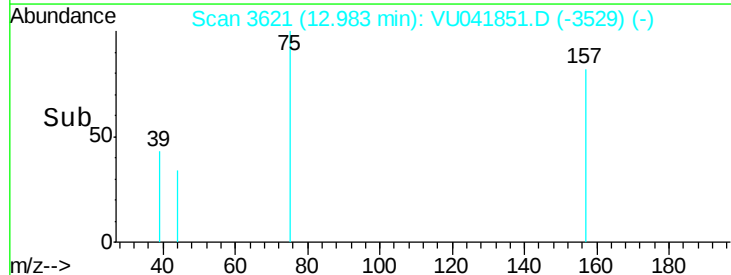
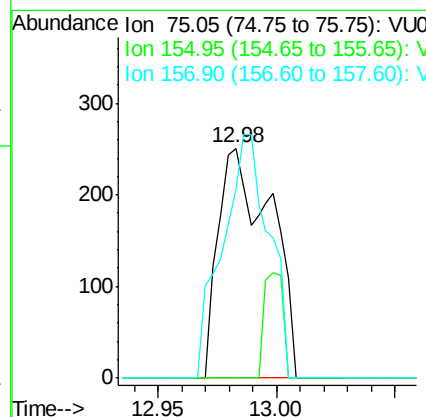
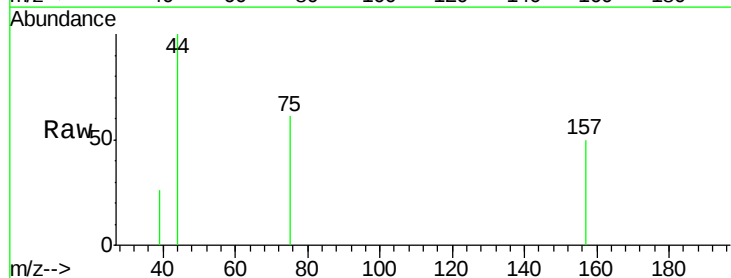
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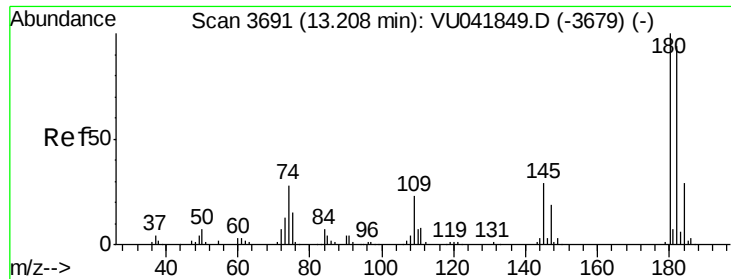
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.204 ug/L m
 RT: 12.98 min Scan# 3621
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	0.0	67.8	101.8#
157	82.1	82.4	123.6#





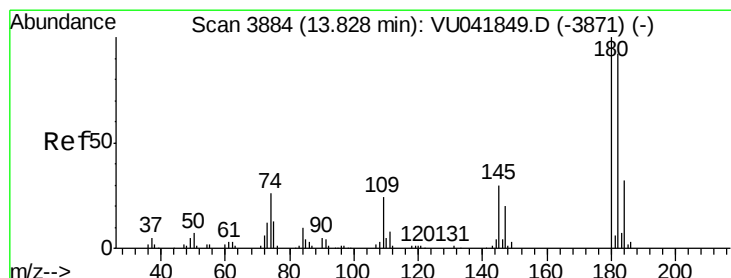
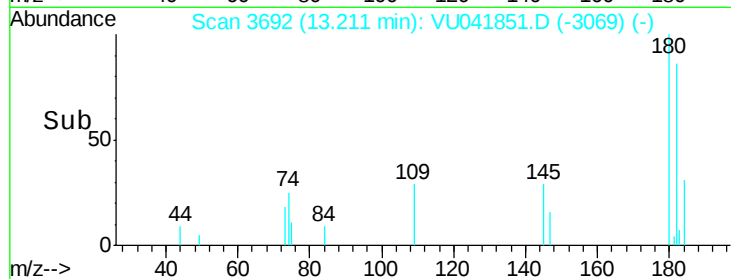
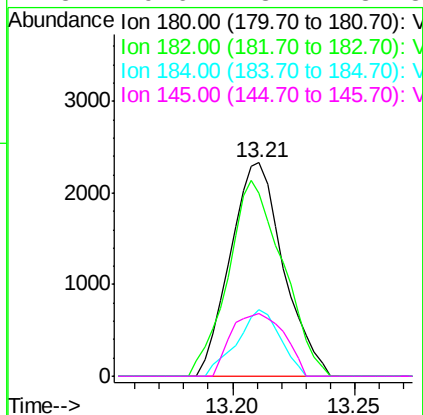
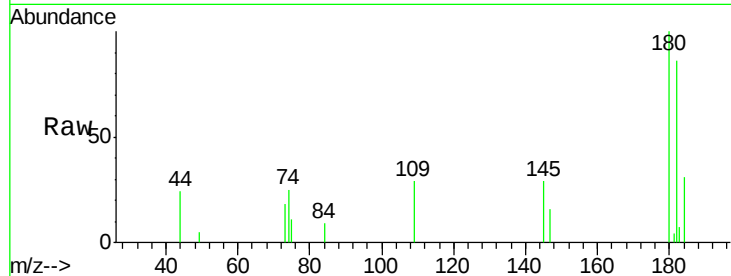
#69
 1,3,5-Trichlorobenzene
 Concen: 0.212 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-QT1-2021-01

Tot Ion:	180	Resp:	3524
Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.1	114.1
184	25.4	24.0	36.0
145	29.6	23.2	34.8

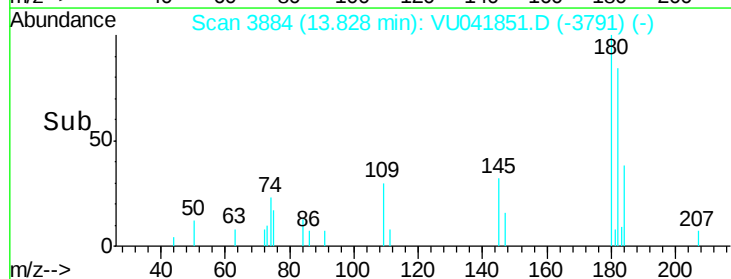
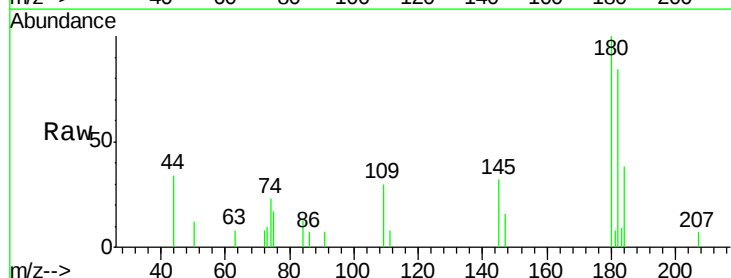
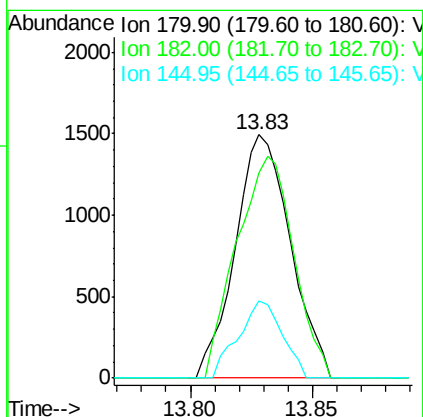
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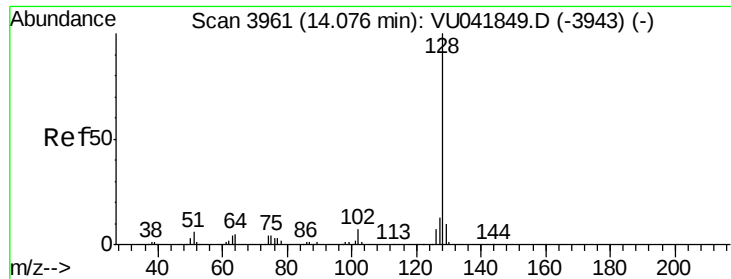
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#70
 1,2,4-trichlorobenzene
 Concen: 0.193 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU041851.D
 Acq: 05 Jan 2021 12:28

Tgt Ion:	180	Resp:	2345
Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.5	114.7
145	25.2	24.1	36.1





#71

Naphthalene

Concen: 0.135 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Instrument :

MSVOA_U

ClientSampleId :

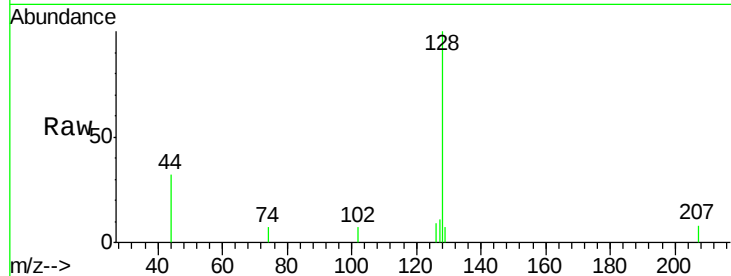
MDL-WATER-QT1-2021-01

Tot Ion:	128	Resp:	2899
Ion Ratio	Lower	Upper	
128	100		
129	5.5	8.6	12.8#
127	8.9	10.6	15.8#

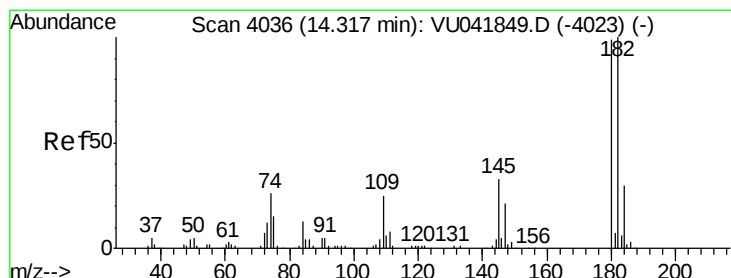
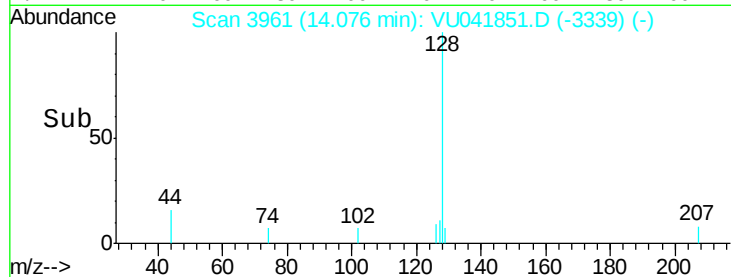
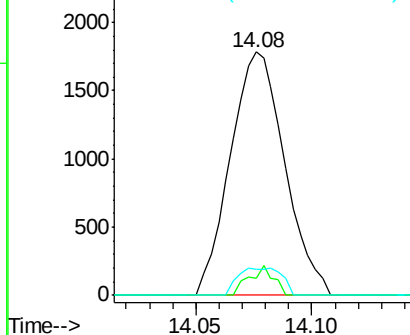
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#72

1,2,3-Trichlorobenzene

Concen: 0.196 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. 0.01 min

Lab File: VU041851.D

Acq: 05 Jan 2021 12:28

Tgt Ion:	180	Resp:	2269
Ion Ratio	Lower	Upper	
180	100		
182	95.0	75.8	113.8
145	24.9	25.0	37.4#

Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

