

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041871.D
 Acq On : 07 Jan 2021 14:41
 Operator : SY/MD
 Sample : M1026-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 04:59:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 08 04:58:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	177183	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	163119	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	68975	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	44154	3.19	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	63.80%
7) Chloroethane-d5	1.92	69	46145	4.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.00%
11) 1,1-Dichloroethene-d2	2.58	63	74001	2.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.00%#
20) 2-Butanone-d5	4.65	46	178524	44.87	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.74%
24) Chloroform-d	5.08	84	105982	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
26) 1,2-Dichloroethane-d4	5.72	65	59949	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.00%
32) Benzene-d6	5.74	84	206346	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
36) 1,2-Dichloropropane-d6	6.70	67	66033	4.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.20%
41) Toluene-d8	7.90	98	162763	3.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.20%
43) trans-1,3-Dichloropropene-	8.19	79	25349	3.85	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.00%
46) 2-Hexanone-d5	8.64	63	138578	38.50	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	55803	4.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	56322	4.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	9137	0.609 ug/L	94
3) Chloromethane	1.52	50	936	0.064 ug/L	100
5) Vinyl chloride	1.61	62	767	0.048 ug/L #	1
8) Chloroethane	1.94	64	644	0.059 ug/L #	73
9) Trichlorofluoromethane	2.15	101	1189028	58.339 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	18602	1.526 ug/L	94
12) 1,1-Dichloroethene	2.59	96	9705	0.807 ug/L #	1
13) Acetone	2.65	43	3956	1.563 ug/L	97
16) Methylene chloride	3.06	84	6365	0.443 ug/L	84
17) Methyl tert-butyl Ether	3.38	73	73733	2.299 ug/L	99
19) 1,1-Dichloroethane	3.89	63	78745	3.389 ug/L	98
22) cis-1,2-Dichloroethene	4.68	96	11669	0.849 ug/L	97
25) Chloroform	5.10	83	5790	0.247 ug/L	96
27) 1,2-Dichloroethane	5.81	62	2234	0.141 ug/L #	86
29) 1,1,1-Trichloroethane	5.34	97	10195	0.544 ug/L	99
31) Carbon tetrachloride	5.33	117	1327	0.082 ug/L	92
34) Trichloroethene	6.55	95	98825	7.539 ug/L	98

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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 08 04:58:19 2021
 Response via : Initial Calibration

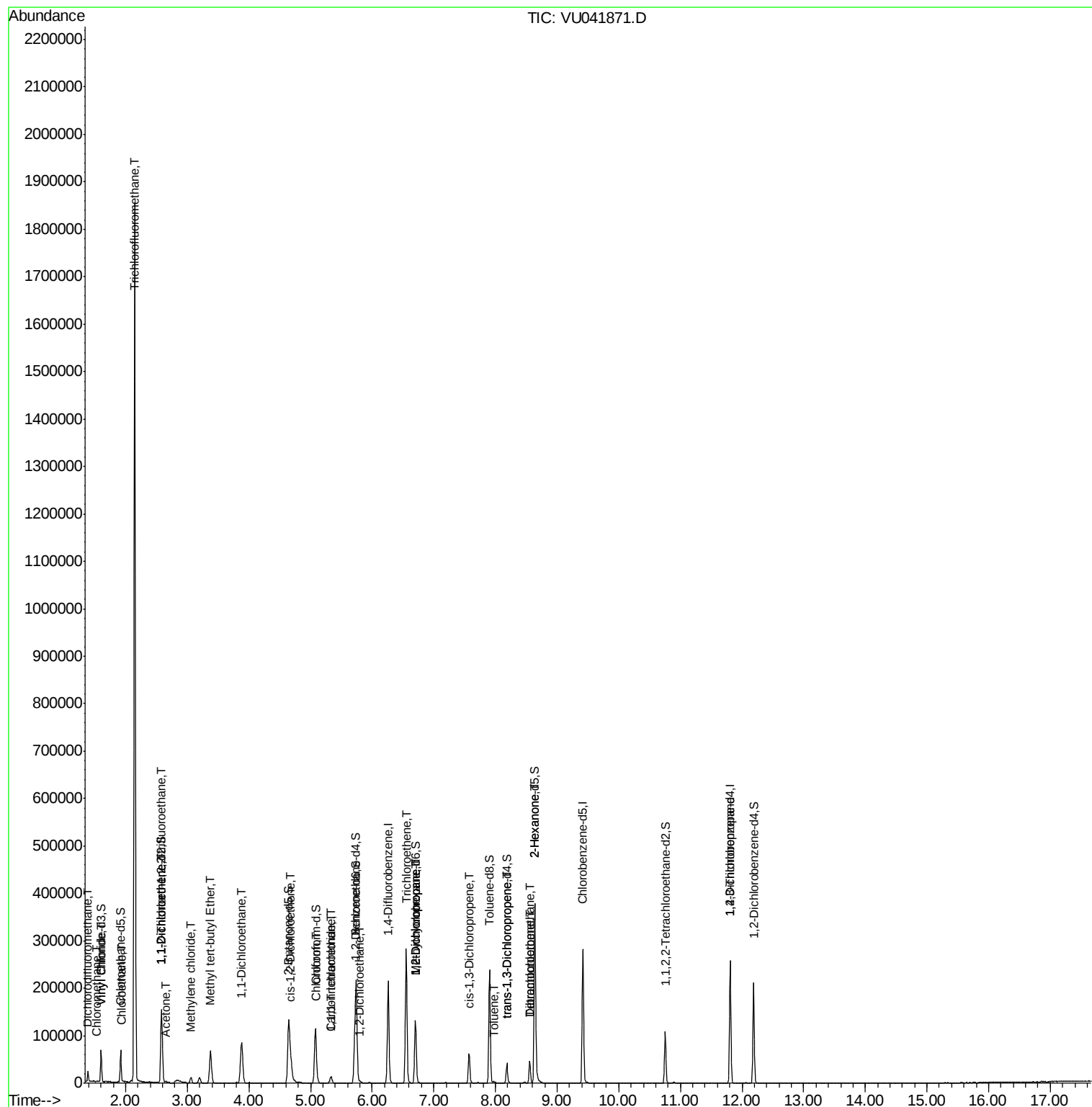
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Methylcyclohexane	6.70	83	15221	0.718	ug/L #	19
37) 1,2-Dichloropropane	6.70	63	6466	0.485	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1482	0.075	ug/L #	14
42) Toluene	7.97	91	2285	0.042	ug/L	90
44) trans-1,3-Dichloropropene	8.19	75	978	0.055	ug/L #	63
47) Tetrachloroethene	8.56	164	10303	1.123	ug/L	92
48) 2-Hexanone	8.64	43	17085	2.472	ug/L #	64
49) Dibromochloromethane	8.56	129	10646	0.939	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	7995	0.798	ug/L	99

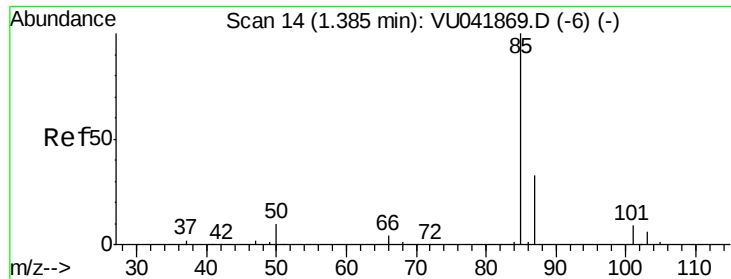
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.609 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

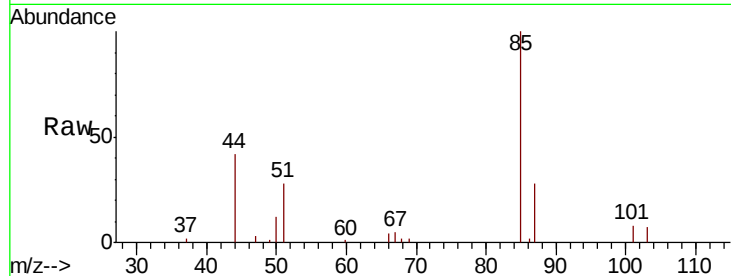
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 9137

Ion Ratio Lower Upper

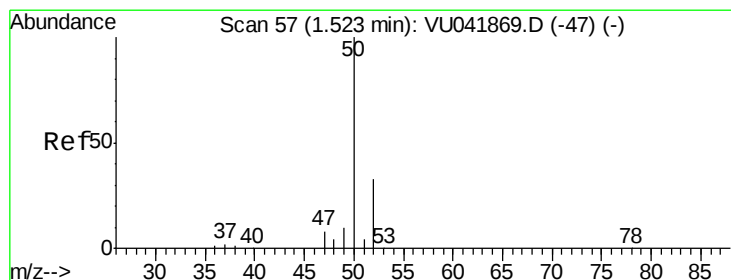
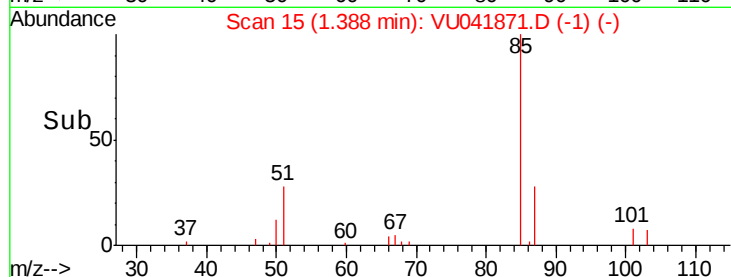
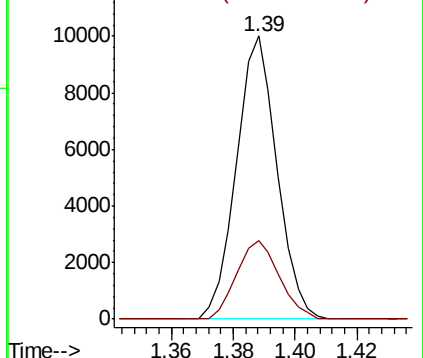
85 100

87 29.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.064 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041871.D

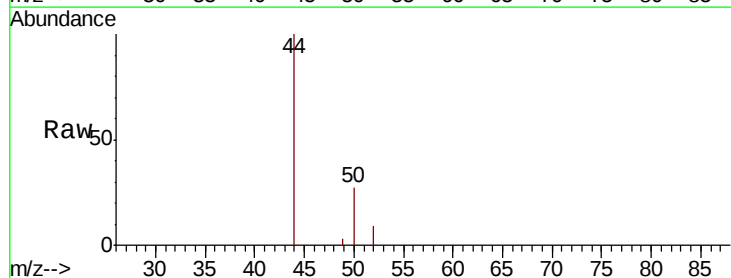
Acq: 07 Jan 2021 14:41

Tgt Ion: 50 Resp: 936

Ion Ratio Lower Upper

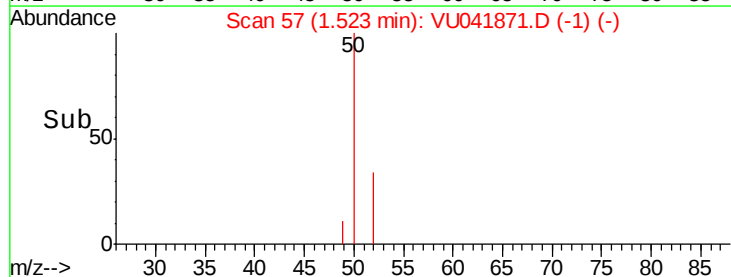
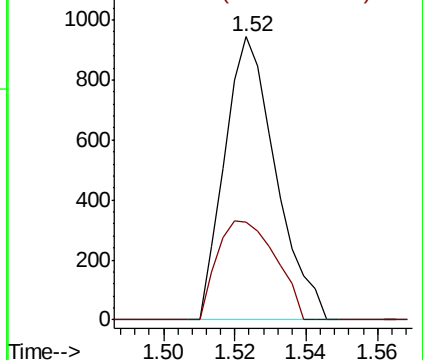
50 100

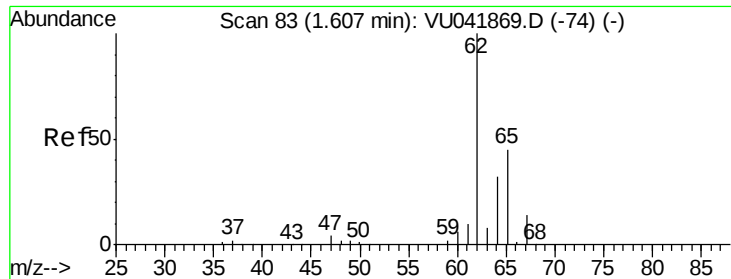
52 34.5 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.048 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

Instrument :

MSVOA_U

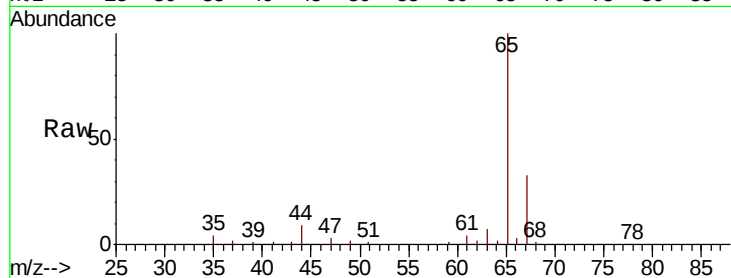
ClientSampleId :

Tot Ion: 62 Resp: 767

Ion Ratio Lower Upper

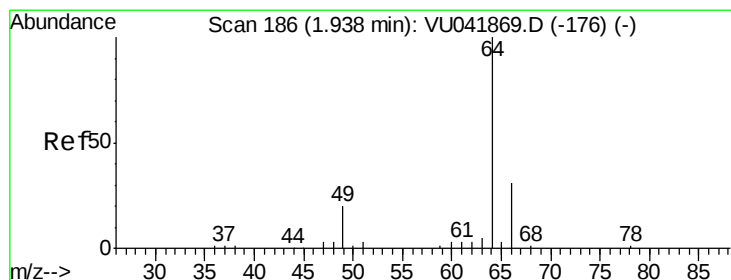
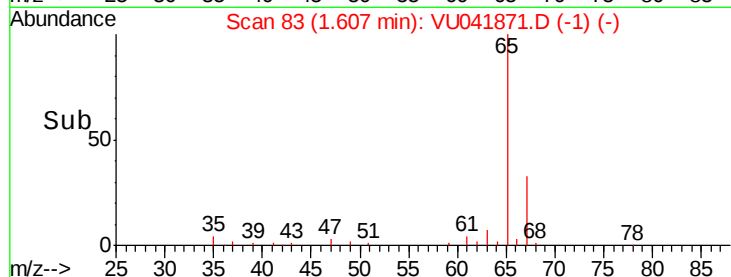
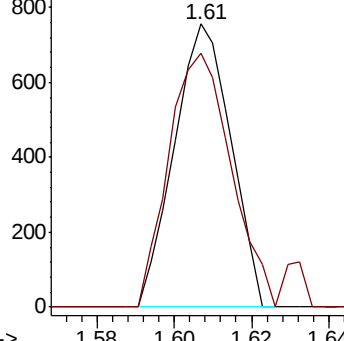
62 100

64 89.7 22.5 41.7#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.059 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU041871.D

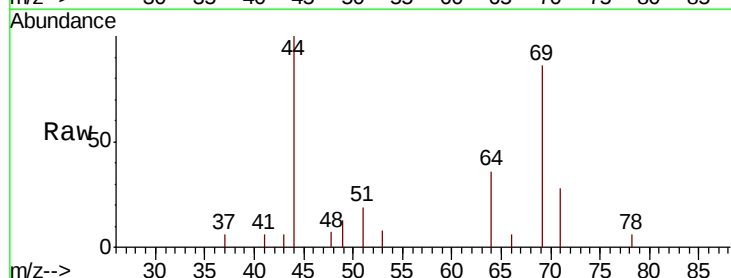
Acq: 07 Jan 2021 14:41

Tgt Ion: 64 Resp: 644

Ion Ratio Lower Upper

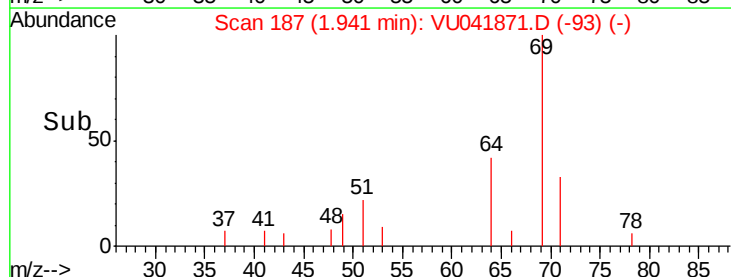
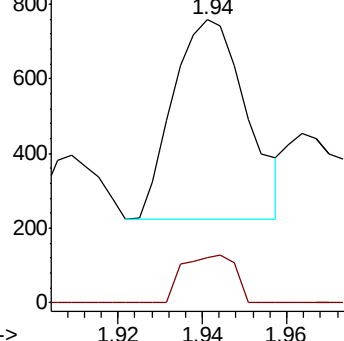
64 100

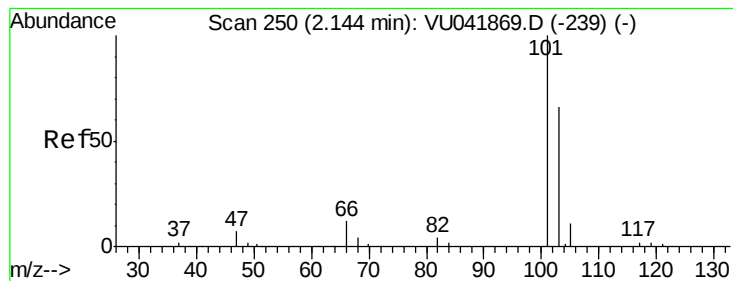
66 16.1 21.6 40.0#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



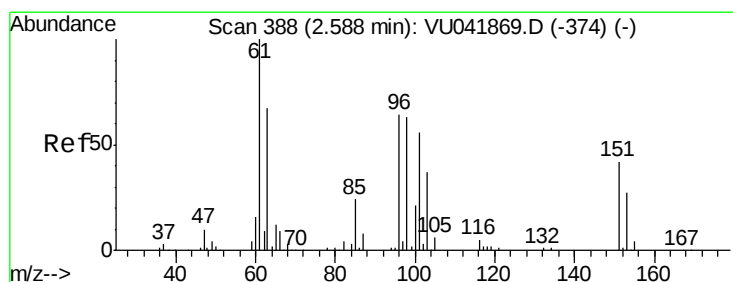
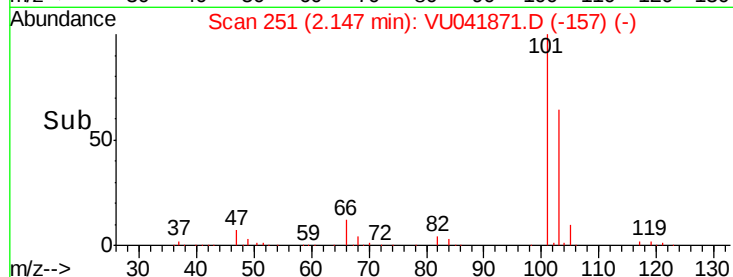
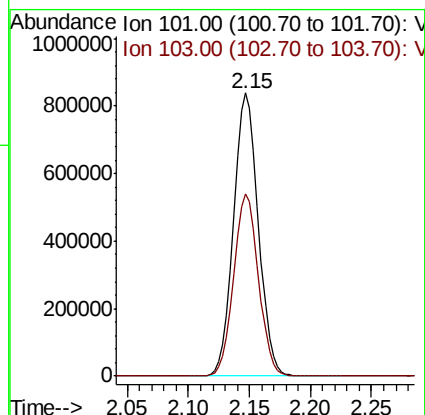
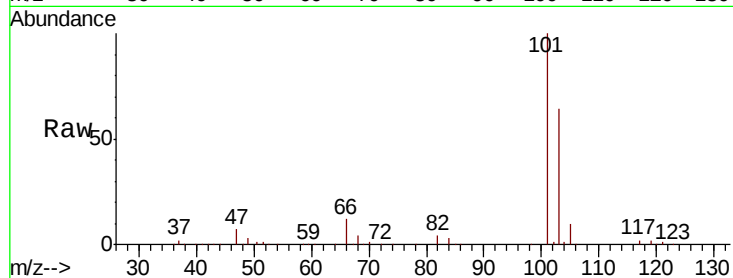


#9

Trichlorofluoromethane
 Concen: 58.339 ug/L
 RT: 2.15 min Scan# 251
 Delta R.T. 0.00 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Instrument :
 MSVOA_U
 ClientSampleId :

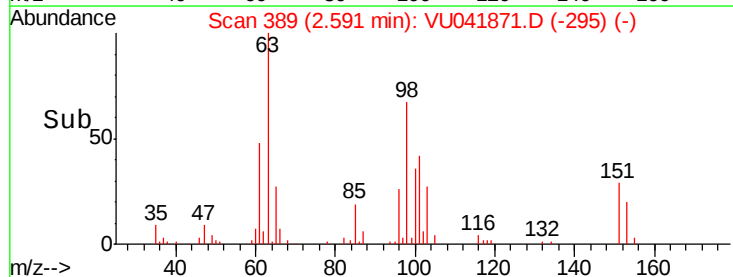
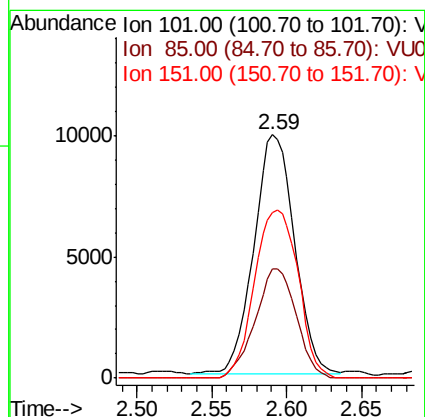
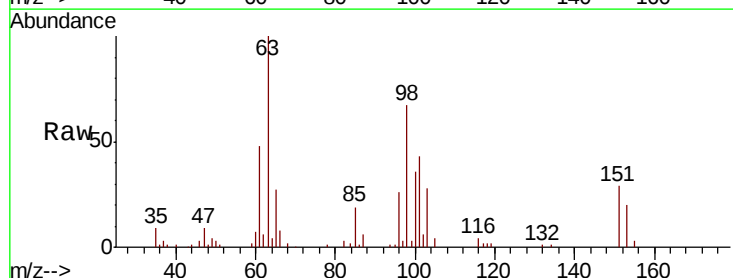
Tot Ion:101 Resp: 1189028
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.1 76.7

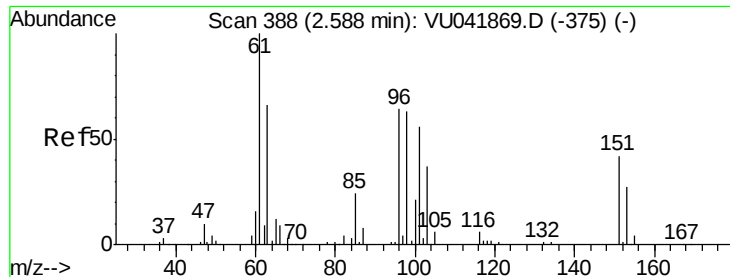


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 1.526 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Tgt Ion:101 Resp: 18602
 Ion Ratio Lower Upper
 101 100
 85 46.1 33.6 50.4
 151 75.3 56.2 84.4

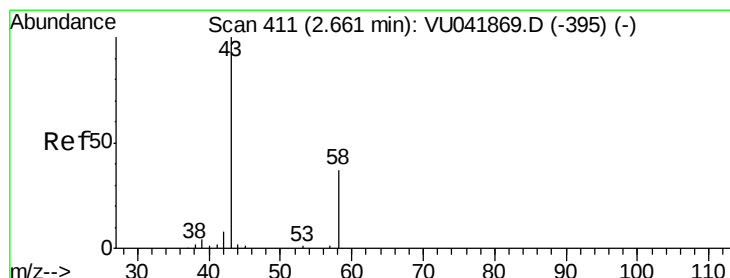
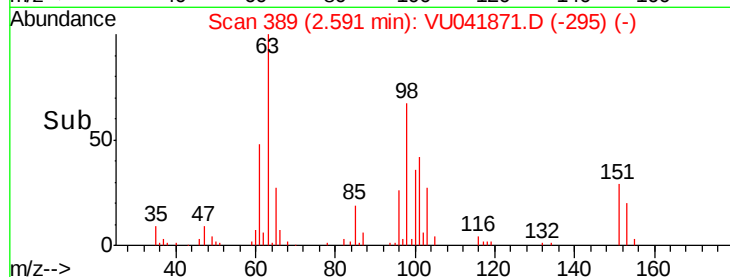
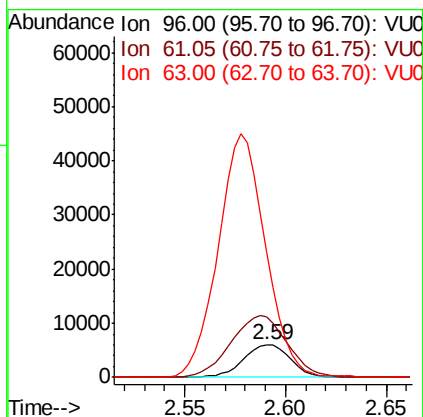
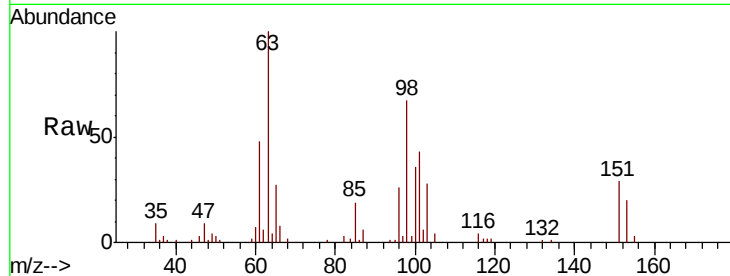




#12
 1,1-Dichloroethene
 Concen: 0.807 ug/L
 RT: 2.59 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

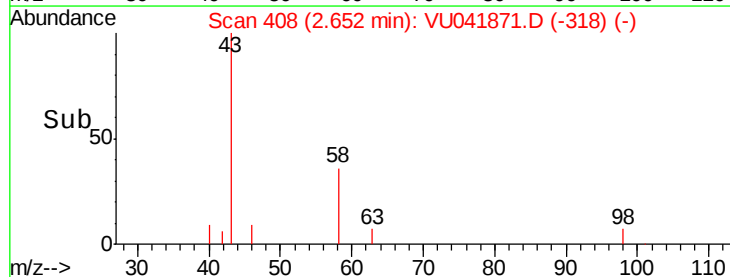
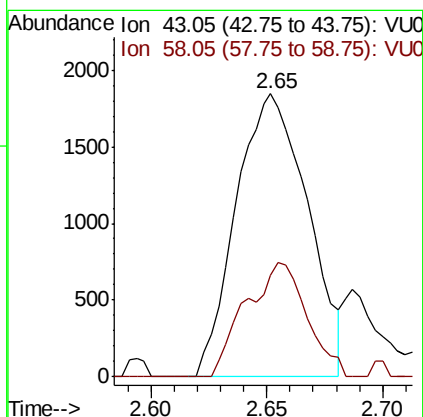
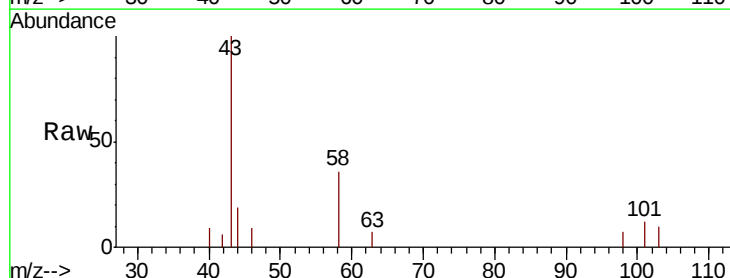
Instrument :
 MSVOA_U
 ClientSampled :

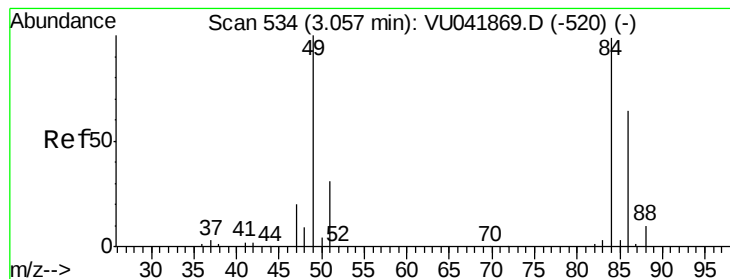
Tot Ion: 96 Resp: 9705
 Ion Ratio Lower Upper
 96 100
 61 184.9 123.8 230.0
 63 383.6 81.0 150.4#



#13
 Acetone
 Concen: 1.563 ug/L
 RT: 2.65 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Tgt Ion: 43 Resp: 3956
 Ion Ratio Lower Upper
 43 100
 58 34.6 0.0 73.2





#16

Methylene chloride

Concen: 0.443 ug/L

RT: 3.06 min Scan# 534

Delta R.T. -0.00 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

Instrument :

MSVOA_U

ClientSampleId :

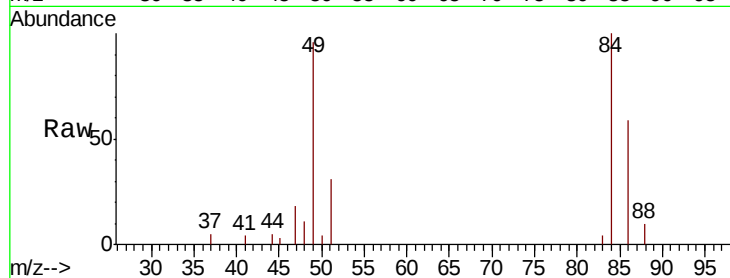
Tot Ion: 84 Resp: 6365

Ion Ratio Lower Upper

84 100

86 58.6 45.1 83.7

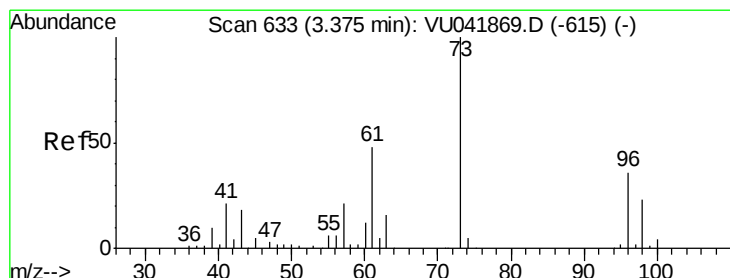
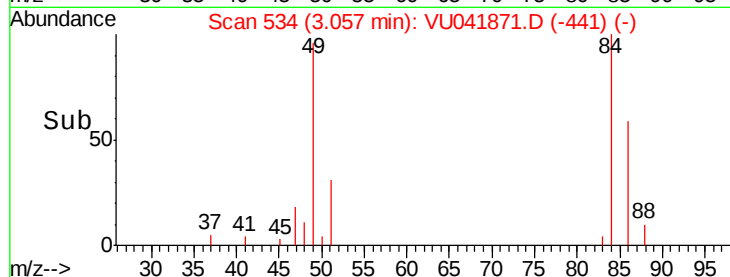
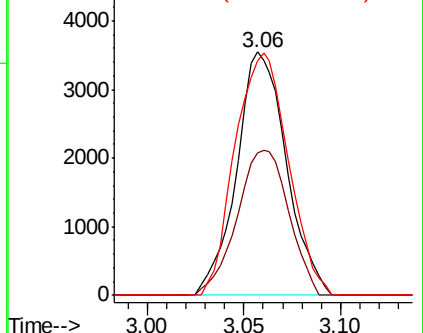
49 96.5 83.1 154.3



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



#17

Methyl tert-butyl Ether

Concen: 2.299 ug/L

RT: 3.38 min Scan# 633

Delta R.T. -0.00 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

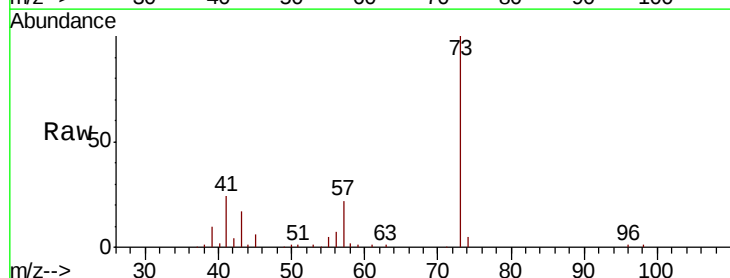
Tgt Ion: 73 Resp: 73733

Ion Ratio Lower Upper

73 100

43 19.1 14.7 22.1

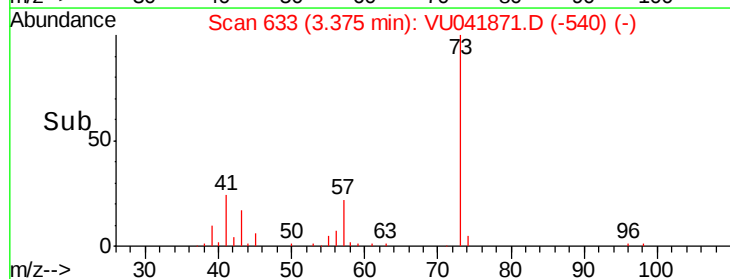
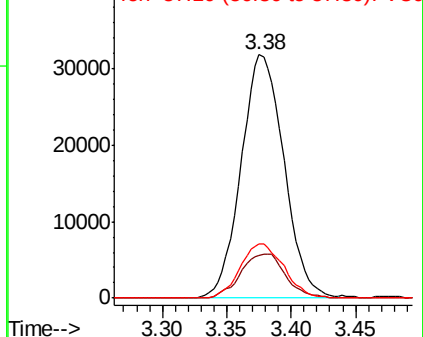
57 22.7 18.2 27.4

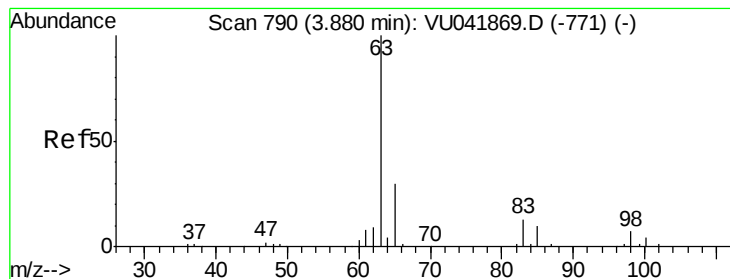


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0

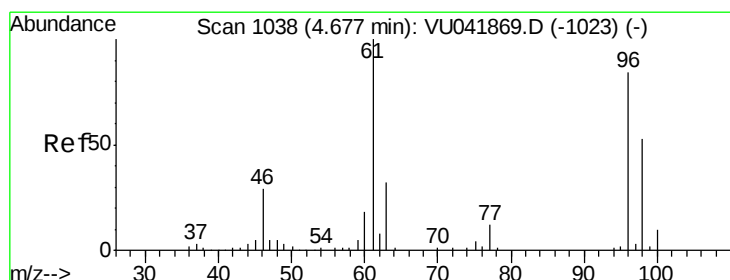
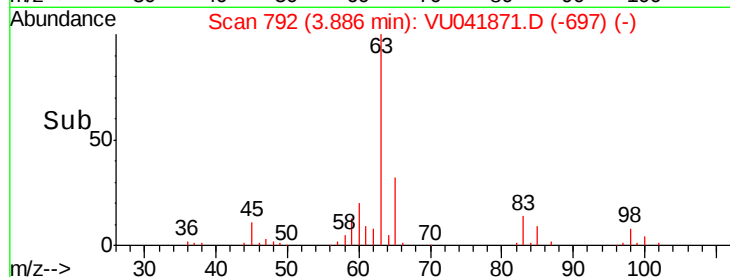
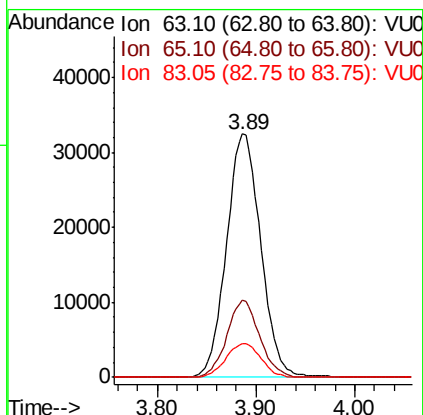
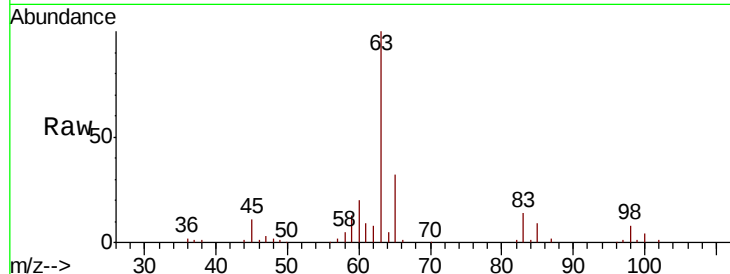




#19
 1,1-Dichloroethane
 Concen: 3.389 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. 0.01 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

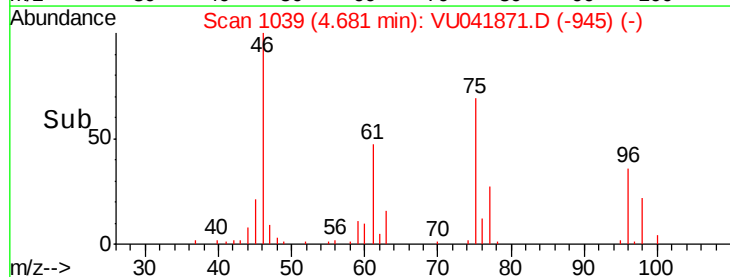
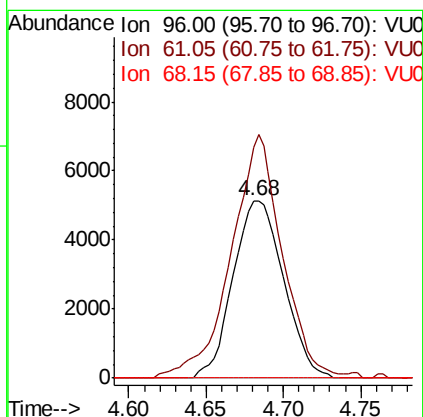
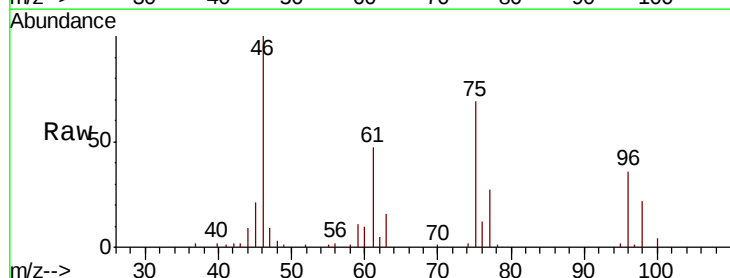
Instrument :
 MSVOA_U
 ClientSampleId :

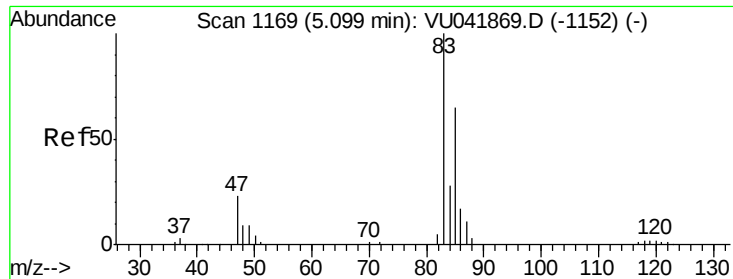
Tot Ion: 63 Resp: 78745
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.3 39.6
 83 13.8 9.3 17.3



#22
 cis-1,2-Dichloroethene
 Concen: 0.849 ug/L
 RT: 4.68 min Scan# 1039
 Delta R.T. 0.00 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Tgt Ion: 96 Resp: 11669
 Ion Ratio Lower Upper
 96 100
 61 130.2 88.8 165.0
 68 0.0 0.0 0.0

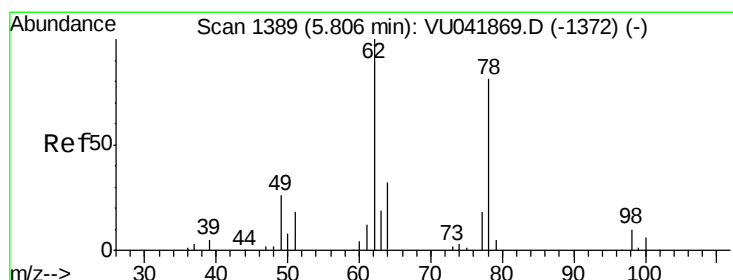
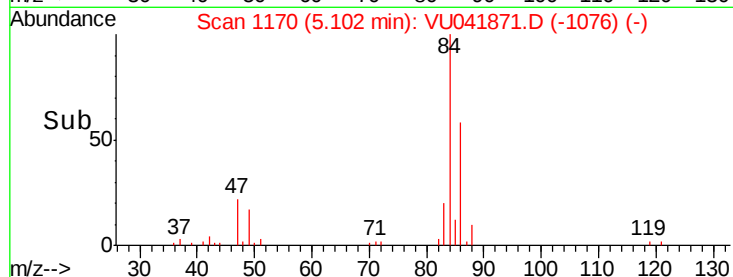
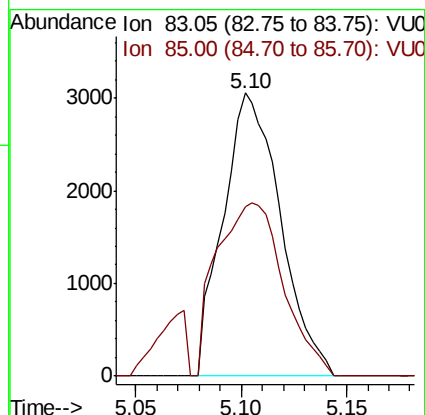
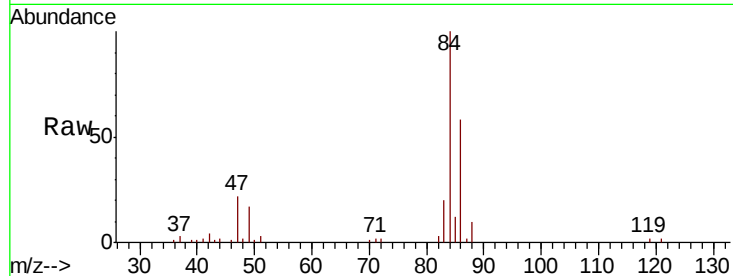




#25
Chloroform
Concen: 0.247 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. 0.00 min
Lab File: VU041871.D
Acq: 07 Jan 2021 14:41

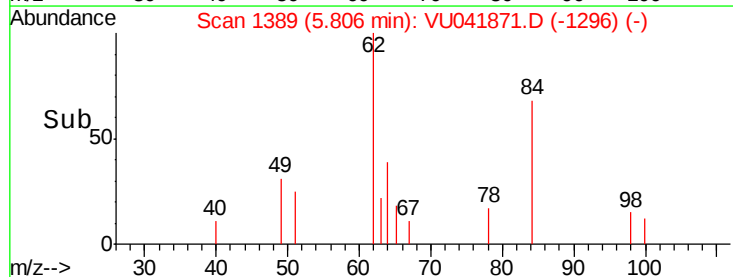
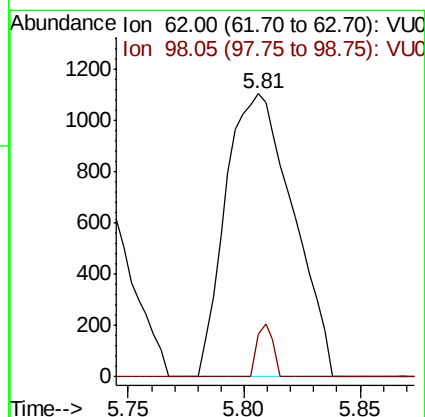
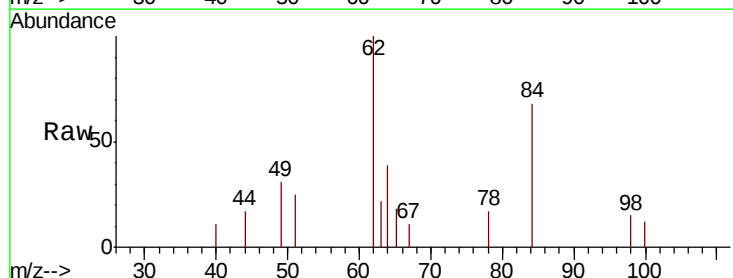
Instrument :
MSVOA_U
ClientSampled :

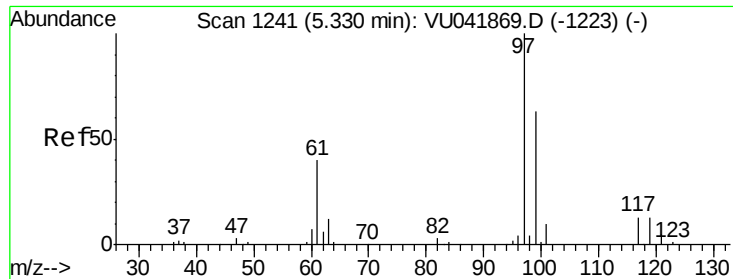
Tot Ion: 83 Resp: 5790
Ion Ratio Lower Upper
83 100
85 59.9 44.2 82.0



#27
1,2-Dichloroethane
Concen: 0.141 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU041871.D
Acq: 07 Jan 2021 14:41

Tgt Ion: 62 Resp: 2234
Ion Ratio Lower Upper
62 100
98 15.3 8.2 12.2#

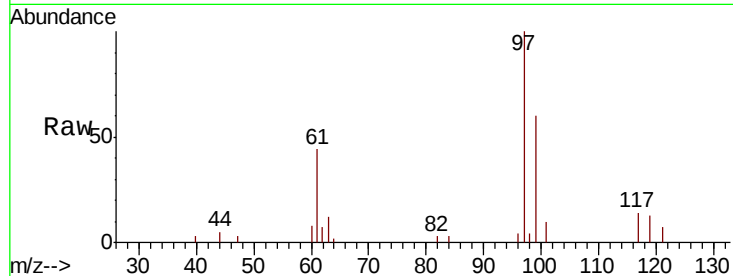




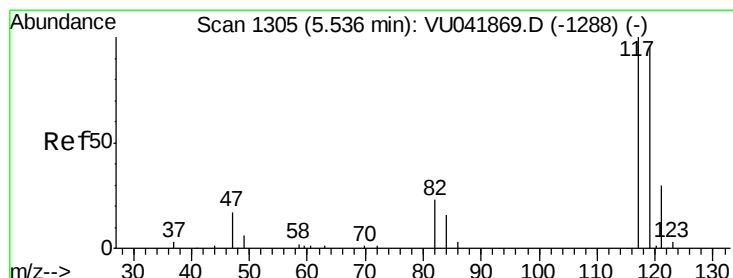
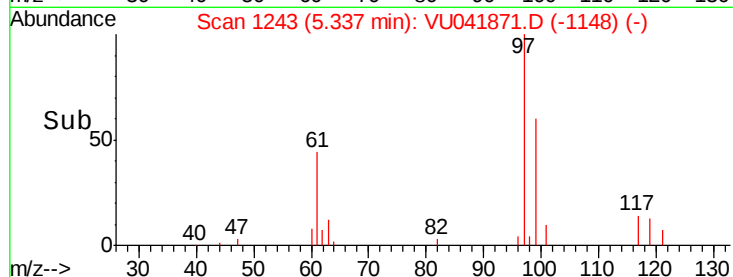
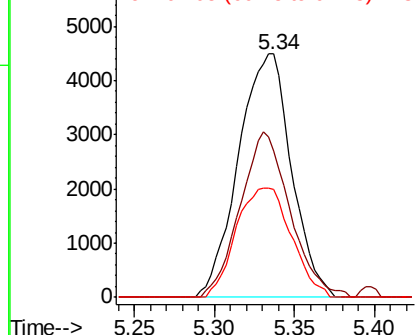
#29
 1,1,1-Trichloroethane
 Concen: 0.544 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.01 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 10195
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.3 76.9
 61 46.7 36.5 54.7

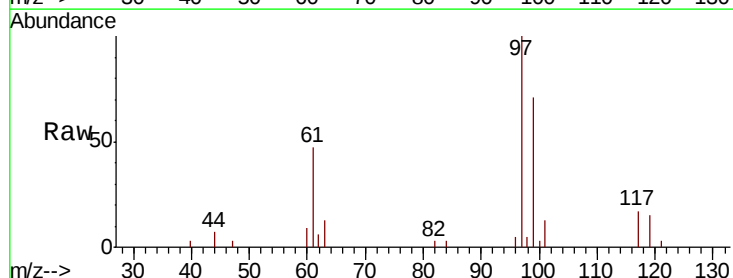


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

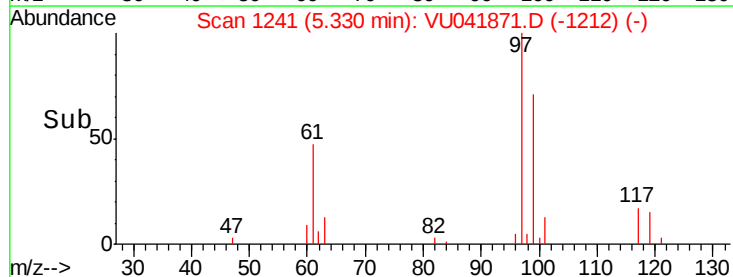
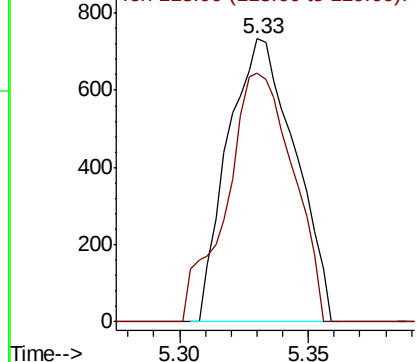


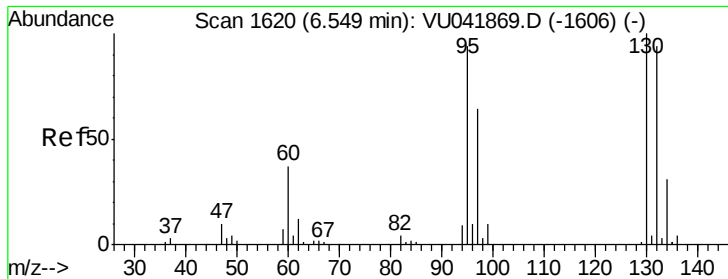
#31
 Carbon tetrachloride
 Concen: 0.082 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.21 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Tgt Ion: 117 Resp: 1327
 Ion Ratio Lower Upper
 117 100
 119 87.7 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V

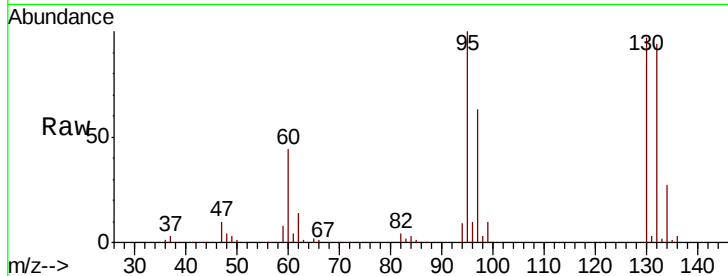




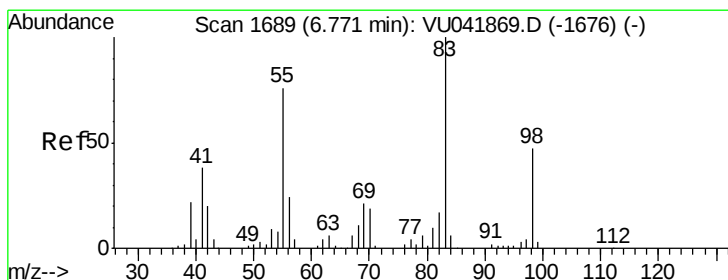
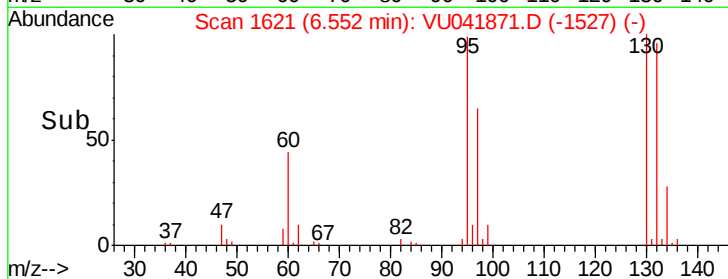
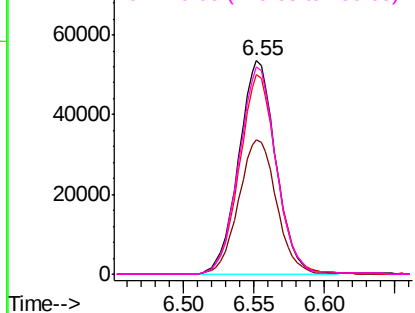
#34
 Trichloroethene
 Concen: 7.539 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 98825
 Ion Ratio Lower Upper
 95 100
 97 63.2 43.9 81.5
 132 93.7 63.1 117.3
 130 97.1 67.4 125.2

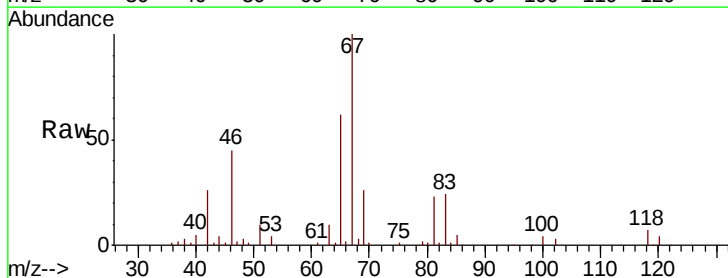


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

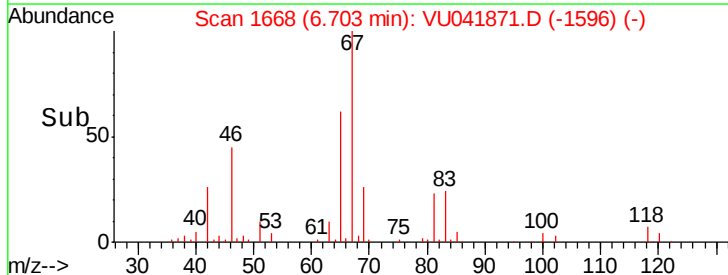
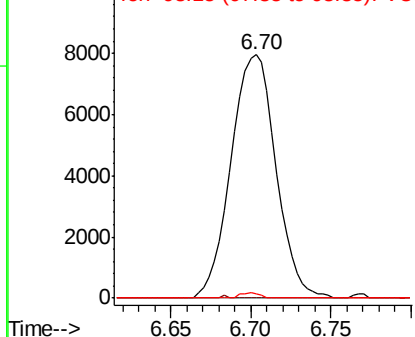


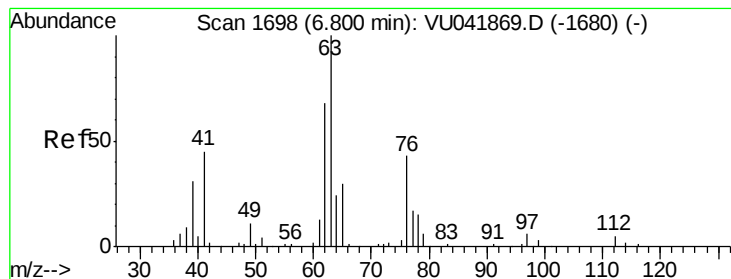
#35
 Methylcyclohexane
 Concen: 0.718 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041871.D
 Acq: 07 Jan 2021 14:41

Tgt Ion: 83 Resp: 15221
 Ion Ratio Lower Upper
 83 100
 55 0.1 61.2 91.8#
 98 0.9 36.6 54.8#



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: 0.485 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

Instrument :

MSVOA_U

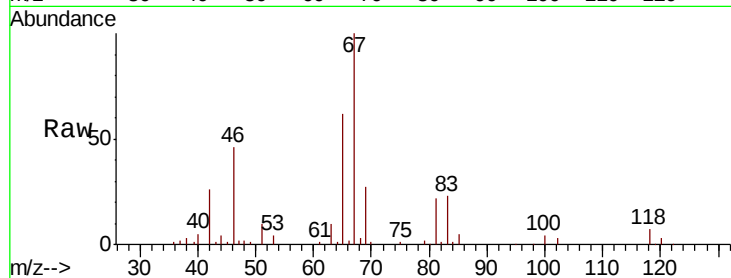
ClientSampled :

Tot Ion: 63 Resp: 6466

Ion Ratio Lower Upper

63 100

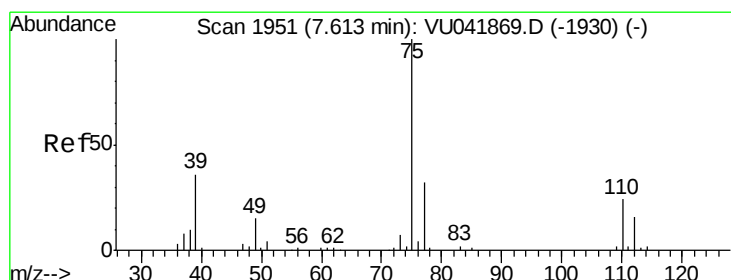
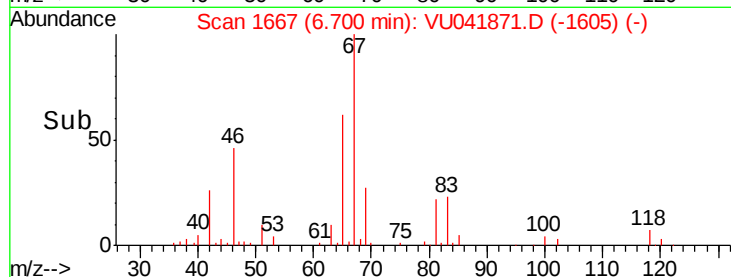
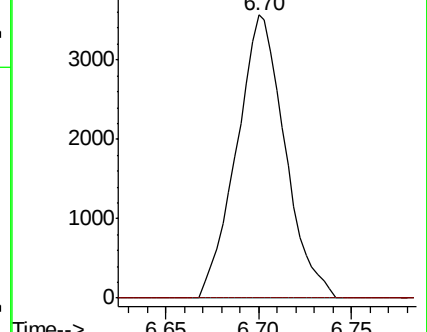
112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU041869.D (-1680) (-)

Ion 112.10 (111.80 to 112.80): VU041869.D (-1680) (-)

6.70



#39

cis-1,3-Dichloropropene

Concen: 0.075 ug/L

RT: 7.57 min Scan# 1937

Delta R.T. -0.05 min

Lab File: VU041871.D

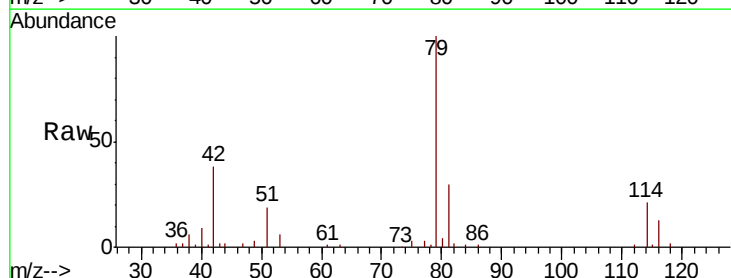
Acq: 07 Jan 2021 14:41

Tgt Ion: 75 Resp: 1482

Ion Ratio Lower Upper

75 100

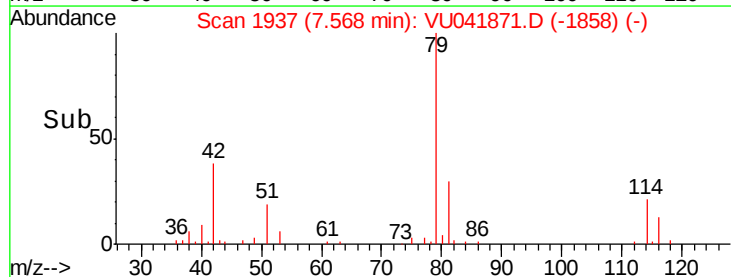
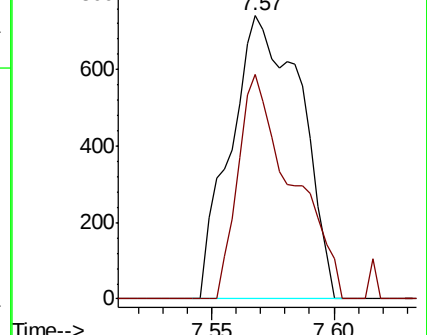
77 79.5 22.3 41.3#

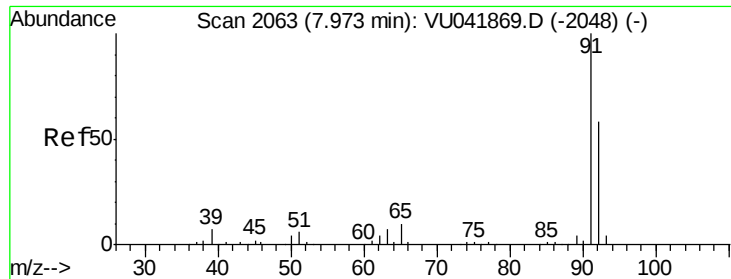


Abundance Ion 75.05 (74.75 to 75.75): VU041869.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU041869.D (-1930) (-)

7.57





#42

Toluene

Concen: 0.042 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

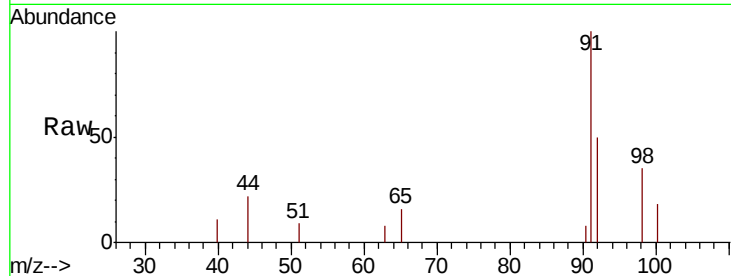
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 2285

Ion Ratio Lower Upper

91 100

92 49.9 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU041869.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU041869.D (-2048) (-)

7.97

1500

1000

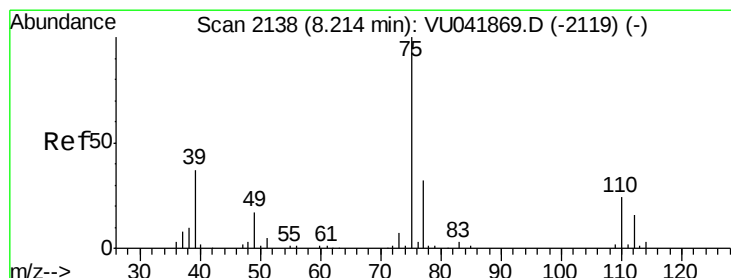
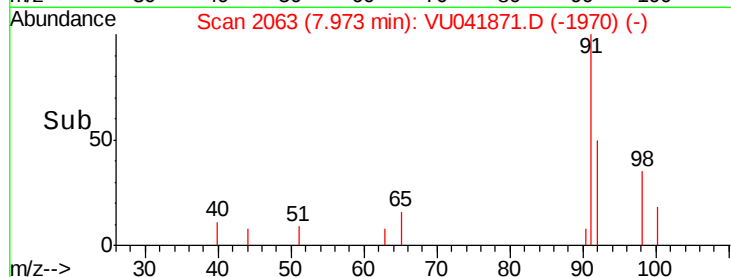
500

0

7.95

8.00

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.055 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041871.D

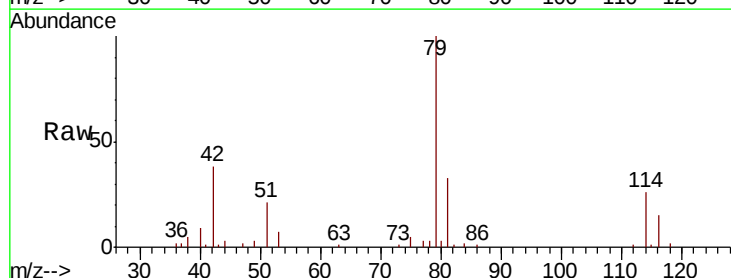
Acq: 07 Jan 2021 14:41

Tgt Ion: 75 Resp: 978

Ion Ratio Lower Upper

75 100

77 55.4 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU041869.D (-2119) (-)

Ion 77.05 (76.75 to 77.75): VU041869.D (-2119) (-)

8.19

600

400

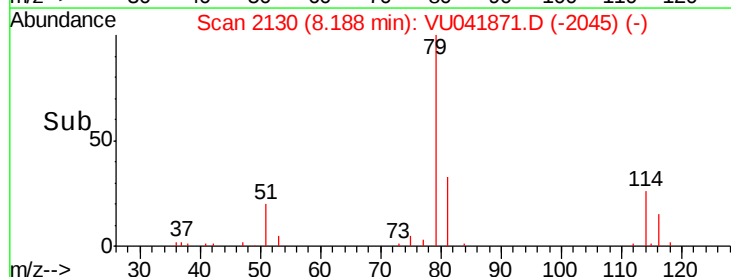
200

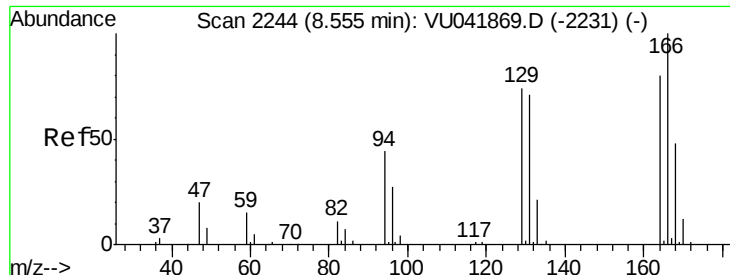
0

8.15

8.20

Time-->





#47

Tetrachloroethene

Concen: 1.123 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 10303

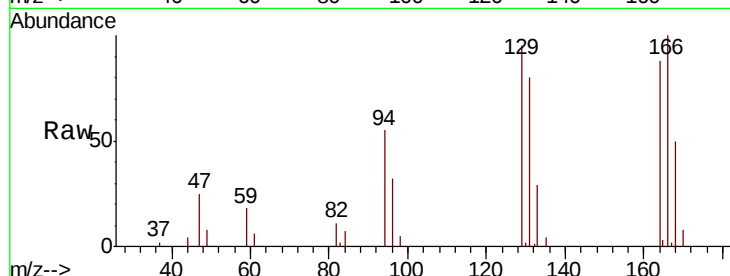
Ion Ratio Lower Upper

164 100

129 108.9 72.2 134.0

131 91.1 66.9 124.3

166 114.1 89.6 166.4

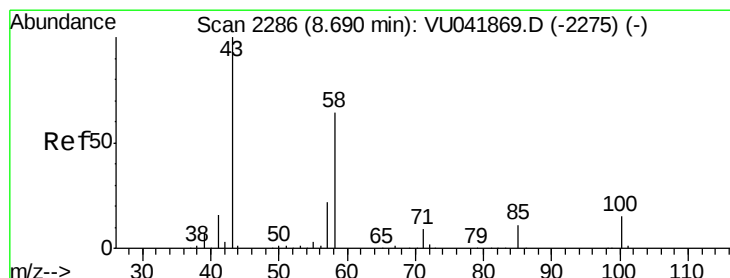
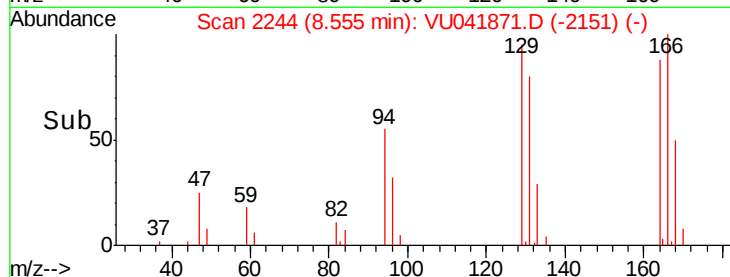
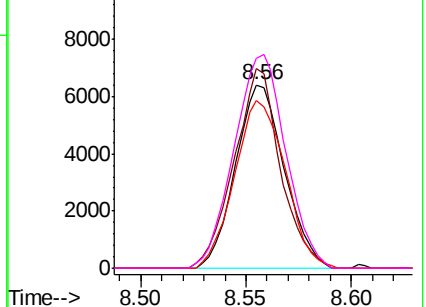


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.472 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

Tgt Ion: 43 Resp: 17085

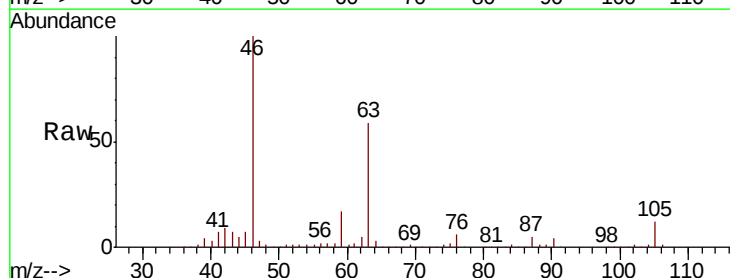
Ion Ratio Lower Upper

43 100

58 28.6 47.9 71.9#

57 32.7 16.5 24.7#

100 1.6 9.4 14.2#

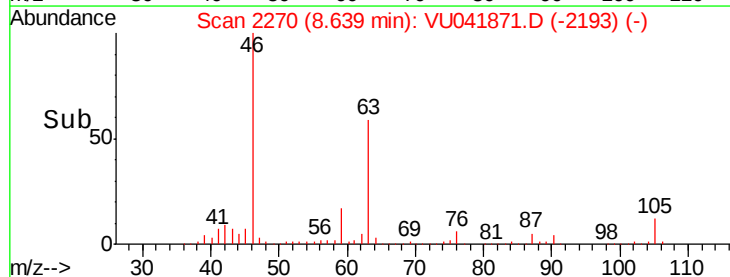
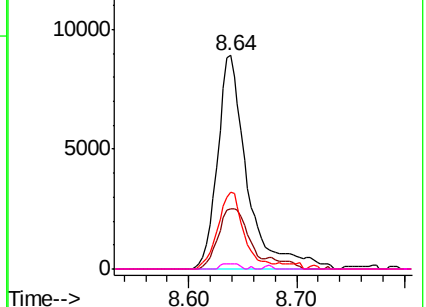


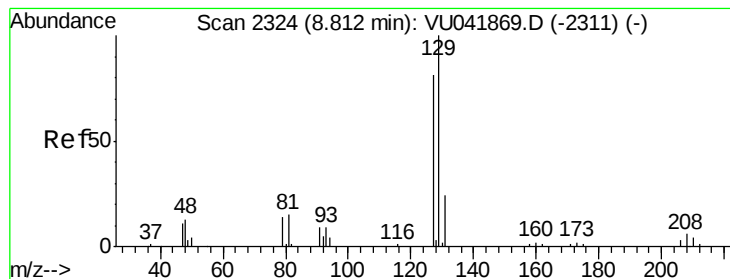
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.939 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041871.D

Acq: 07 Jan 2021 14:41

Instrument :

MSVOA_U

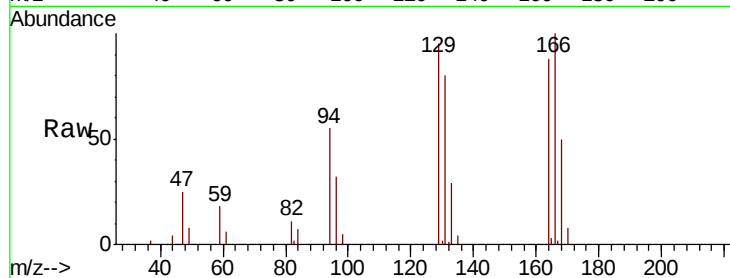
ClientSampleId :

Tot Ion:129 Resp: 10646

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

6000

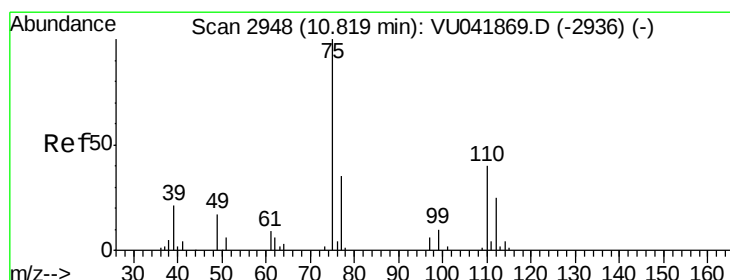
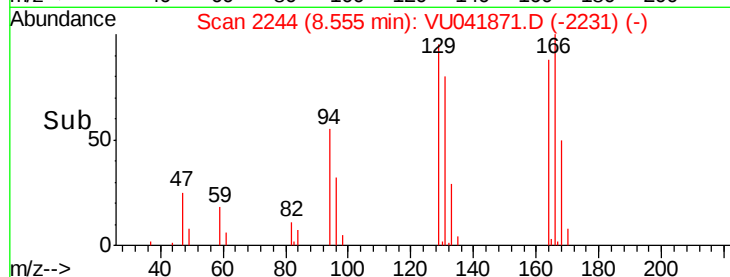
4000

2000

0

8.50 8.55 8.60

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.798 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041871.D

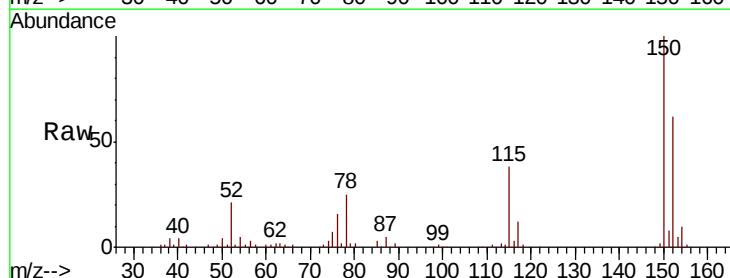
Acq: 07 Jan 2021 14:41

Tgt Ion: 75 Resp: 7995

Ion Ratio Lower Upper

75 100

77 33.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

6000

5000

4000

3000

2000

1000

0

11.75 11.80 11.85

Time-->

