

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041886.D
 Acq On : 07 Jan 2021 20:40
 Operator : SY/MD
 Sample : M1026-17
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 05:02:05 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	138563	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	132559	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54189	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	40267	3.72	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.40%
7) Chloroethane-d5	1.92	69	44083	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.20%
11) 1,1-Dichloroethene-d2	2.58	63	61912	3.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.00%
20) 2-Butanone-d5	4.65	46	173789	55.85	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.70%
24) Chloroform-d	5.08	84	101706	5.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.60%
26) 1,2-Dichloroethane-d4	5.72	65	57082	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.40%
32) Benzene-d6	5.74	84	190425	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.40%
36) 1,2-Dichloropropane-d6	6.70	67	63979	5.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.60%
41) Toluene-d8	7.90	98	155302	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
43) trans-1,3-Dichloropropene-	8.18	79	23192	4.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.60%
46) 2-Hexanone-d5	8.64	63	146989	50.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.50%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	55123	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	56622	5.88	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.60%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	1530	0.134 ug/L	96
9) Trichlorofluoromethane	2.15	101	3328	0.209 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1253	0.131 ug/L #	70
12) 1,1-Dichloroethene	2.59	96	905	0.096 ug/L #	1
13) Acetone	2.65	43	2941	1.486 ug/L	64
16) Methylene chloride	3.06	84	2543	0.227 ug/L #	80
17) Methyl tert-butyl Ether	3.38	73	13997	0.558 ug/L	99
19) 1,1-Dichloroethane	3.89	63	3492	0.192 ug/L	94
25) Chloroform	5.11	83	4271	0.233 ug/L	92
29) 1,1,1-Trichloroethane	5.33	97	6904	0.454 ug/L #	85
34) Trichloroethene	6.55	95	5191	0.487 ug/L	91
35) Methylcyclohexane	6.70	83	14693	0.853 ug/L #	19
37) 1,2-Dichloropropane	6.70	63	6545	0.604 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1262	0.079 ug/L #	55
42) Toluene	7.97	91	1554	0.036 ug/L	93
44) trans-1,3-Dichloropropene	8.19	75	998	0.069 ug/L #	70
47) Tetrachloroethene	8.56	164	43753	5.867 ug/L	97

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

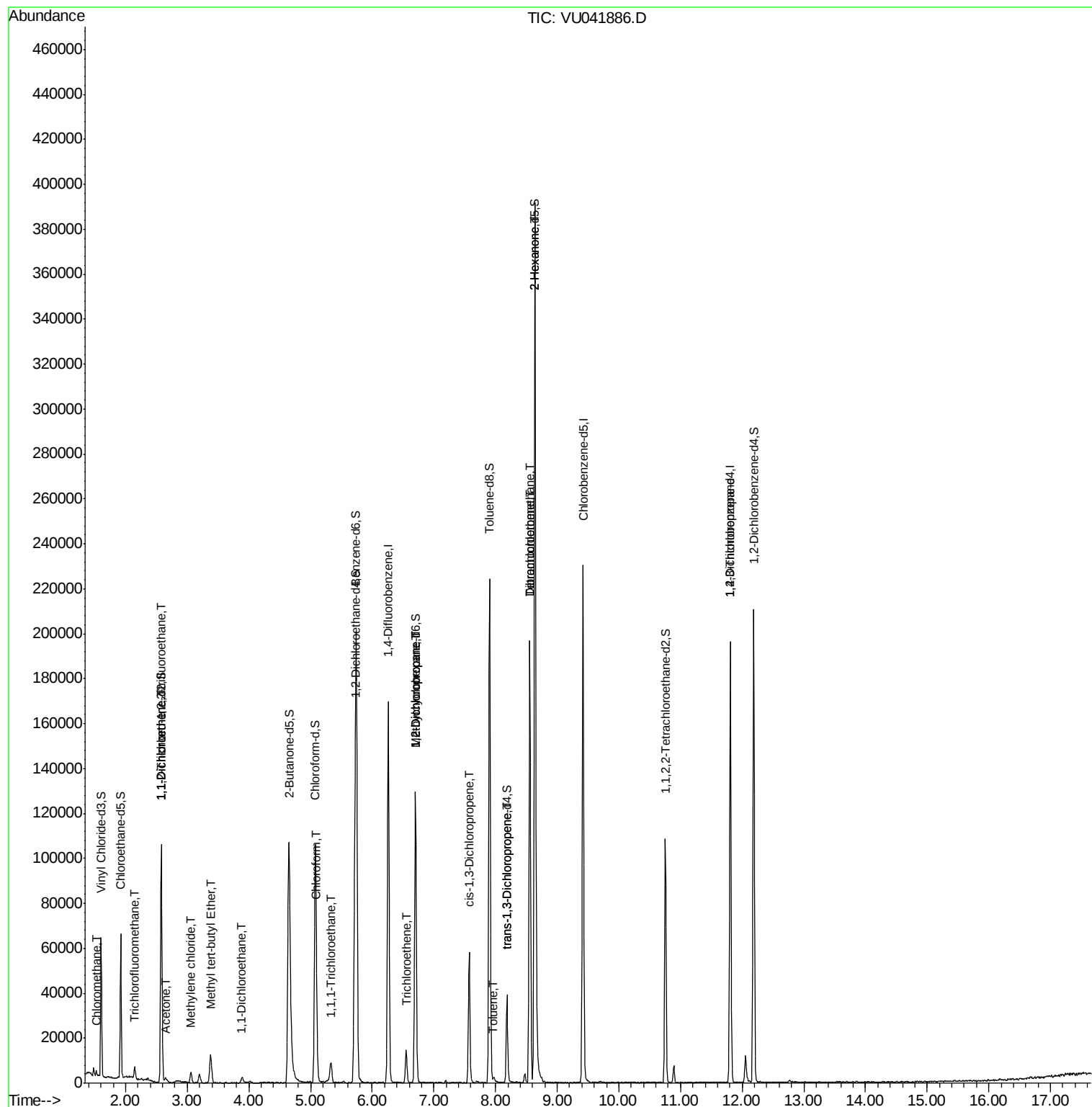
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	16961	3.020	ug/L #	66
49) Dibromochloromethane	8.56	129	41576	4.514	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5982	0.735	ug/L	98

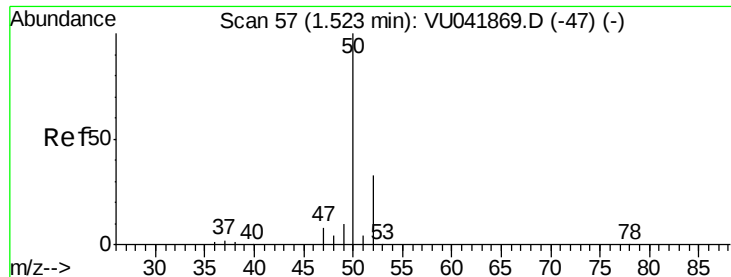
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.134 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Instrument :

MSVOA_U

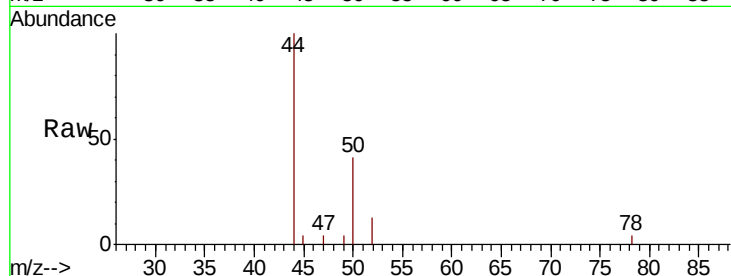
ClientSampleId :

Tot Ion: 50 Resp: 1530

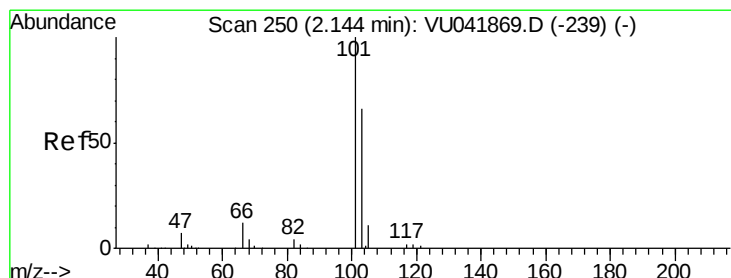
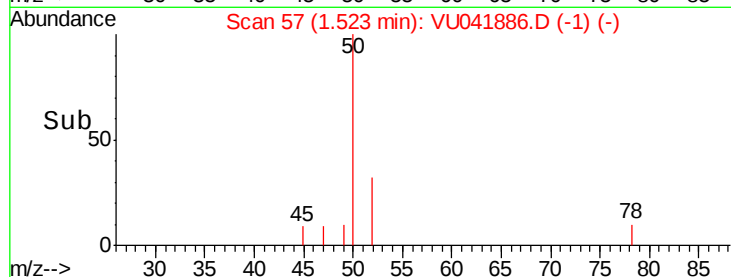
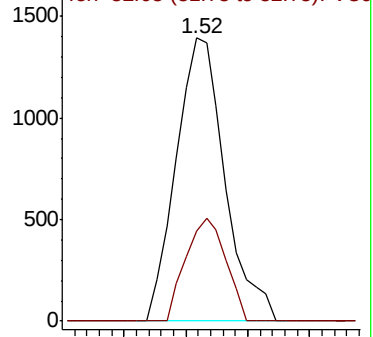
Ion Ratio Lower Upper

50 100

52 31.9 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041886.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 0.209 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU041886.D

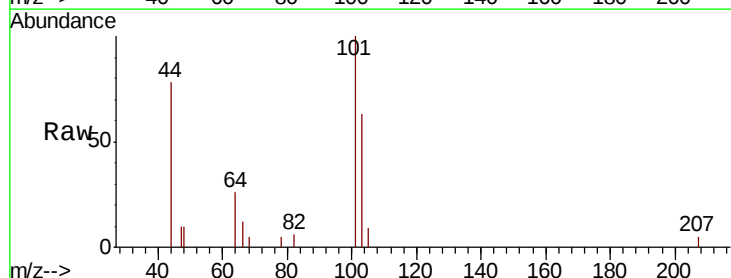
Acq: 07 Jan 2021 20:40

Tgt Ion: 101 Resp: 3328

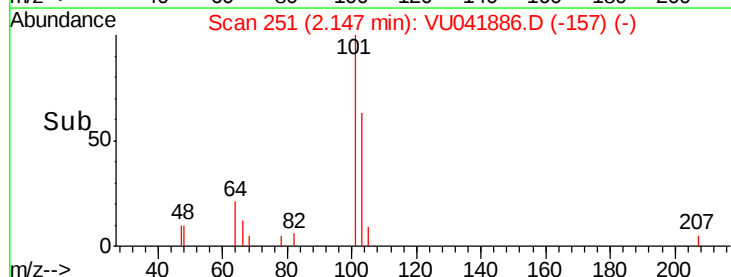
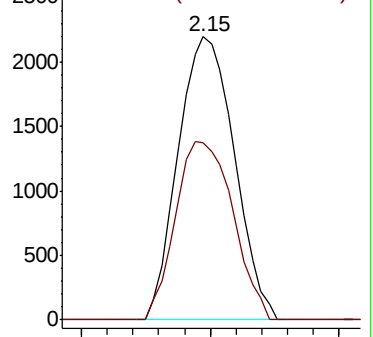
Ion Ratio Lower Upper

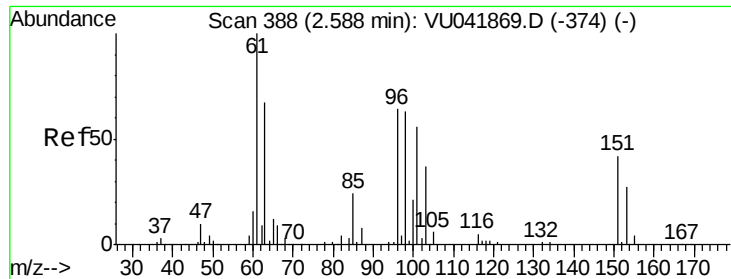
101 100

103 64.4 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU041886.D (-157) (-)





#10

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

Concen: 0.131 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.00 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Instrument :

MSVOA_U

ClientSampled :

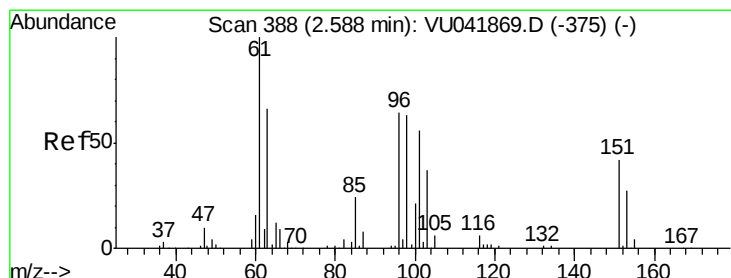
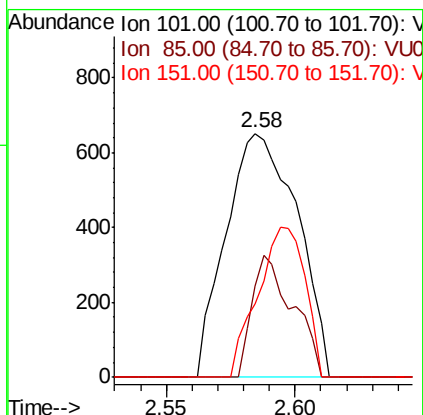
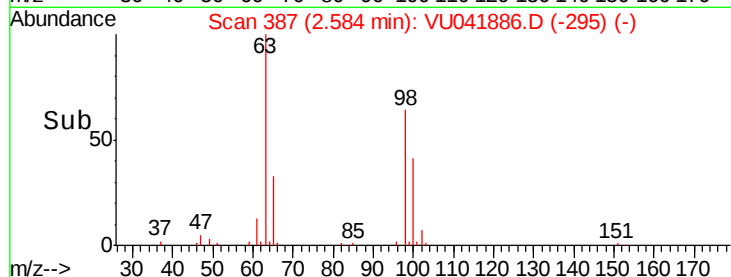
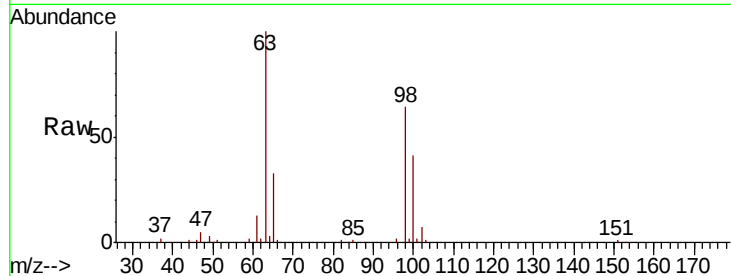
Tot Ion:101 Resp: 1253

Ion Ratio Lower Upper

101 100

85 28.7 33.6 50.4#

151 40.9 56.2 84.4#



#12

1,1-Dichloroethene

Concen: 0.096 ug/L

RT: 2.59 min Scan# 388

Delta R.T. 0.00 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

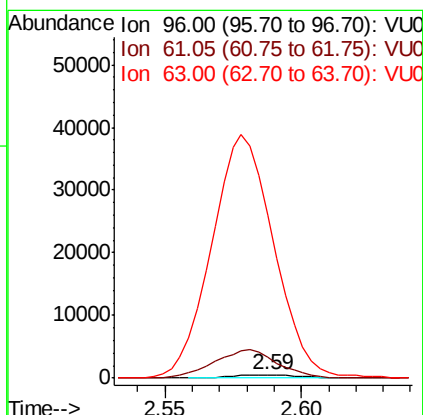
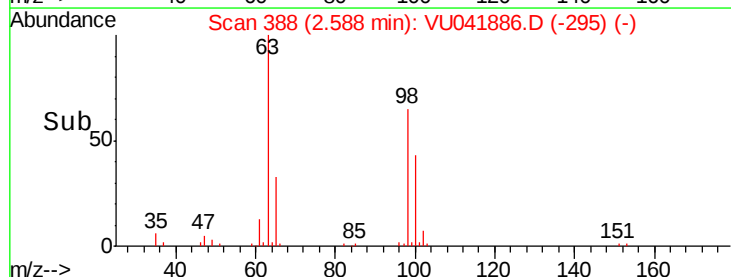
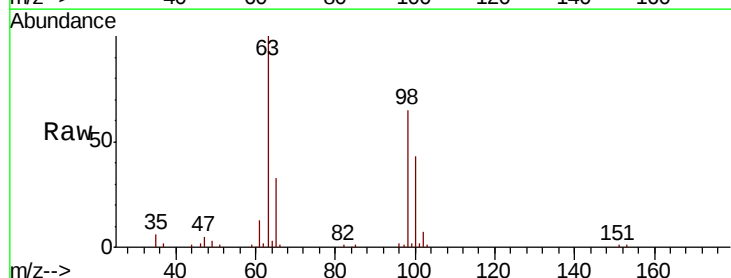
Tgt Ion: 96 Resp: 905

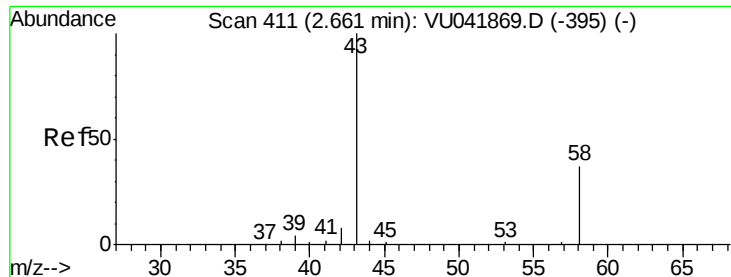
Ion Ratio Lower Upper

96 100

61 592.3 123.8 230.0#

63 4722.8 81.0 150.4#





#13

Acetone

Concen: 1.486 ug/L

RT: 2.65 min Scan# 407

Delta R.T. -0.01 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Instrument :

MSVOA_U

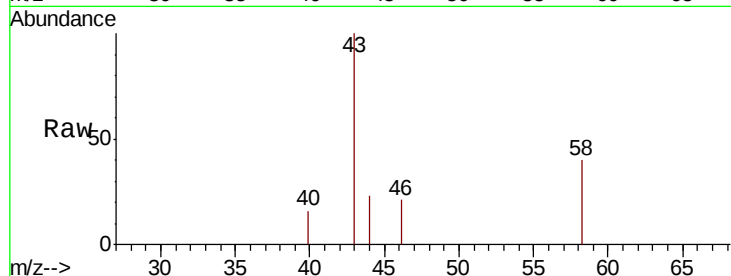
ClientSampled :

Tot Ion: 43 Resp: 2941

Ion Ratio Lower Upper

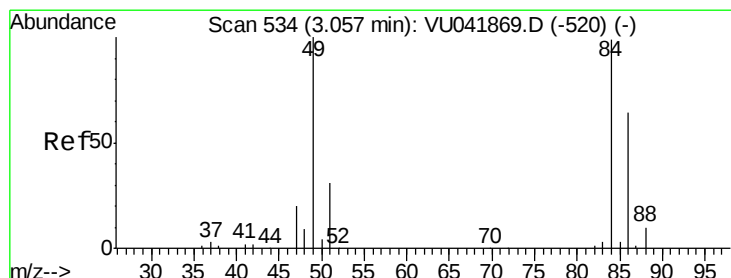
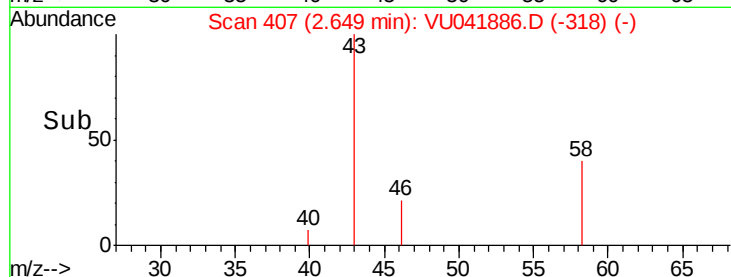
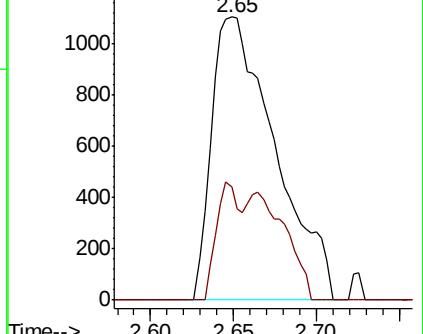
43 100

58 15.5 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#16

Methylene chloride

Concen: 0.227 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

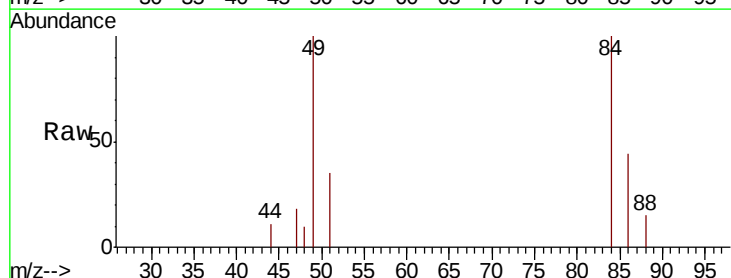
Tgt Ion: 84 Resp: 2543

Ion Ratio Lower Upper

84 100

86 44.2 45.1 83.7#

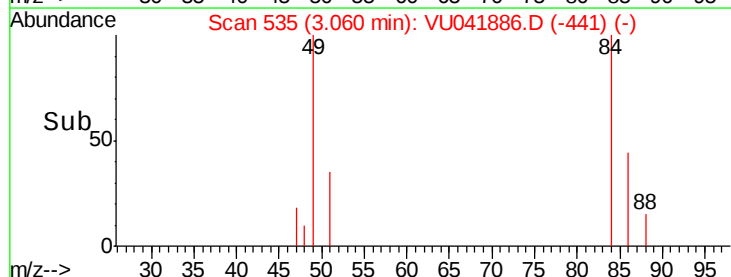
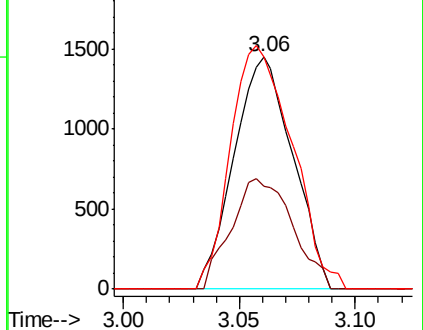
49 100.1 83.1 154.3

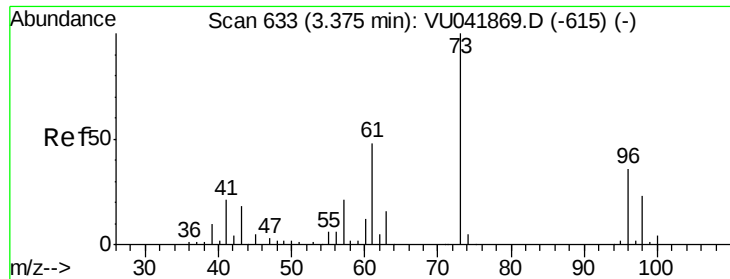


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

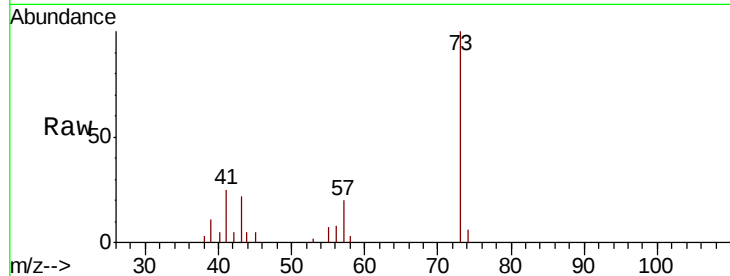




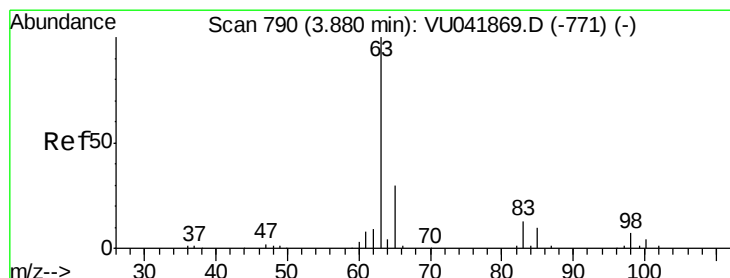
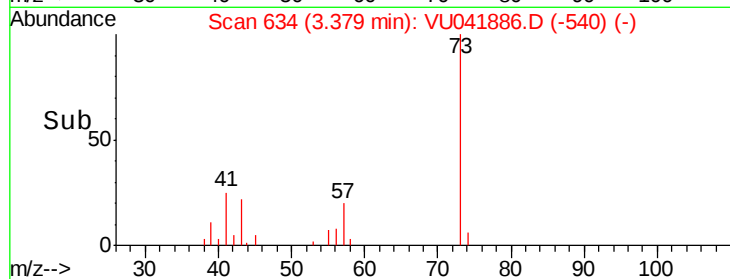
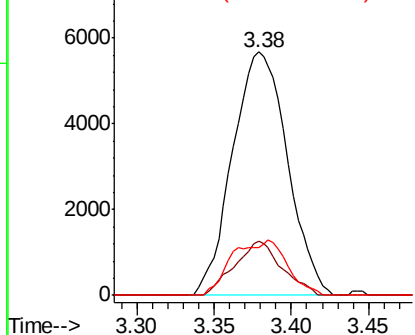
#17
Methvl tert-butvl Ether
Concen: 0.558 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.00 min
Lab File: VU041886.D
Acq: 07 Jan 2021 20:40

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 13997
Ion Ratio Lower Upper
73 100
43 19.2 14.7 22.1
57 22.8 18.2 27.4

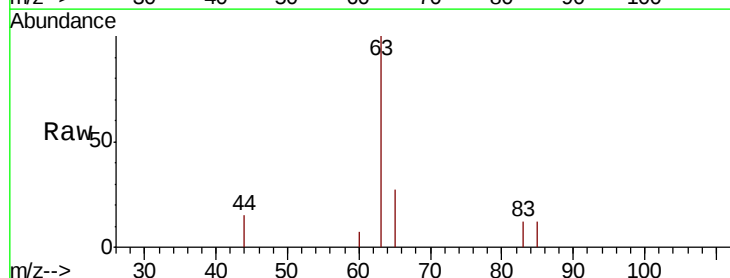


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

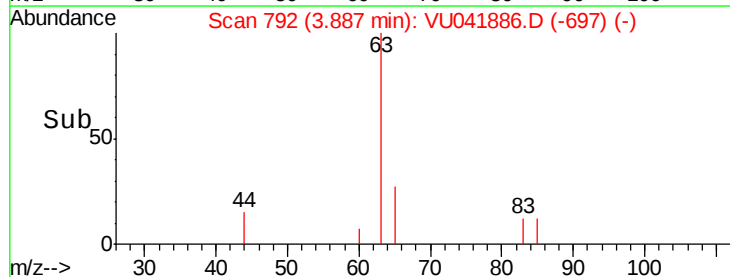
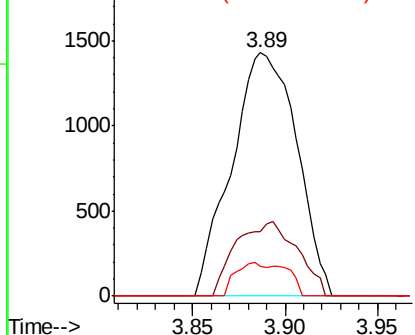


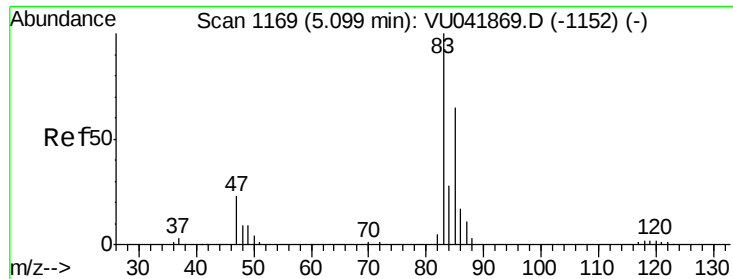
#19
1,1-Dichloroethane
Concen: 0.192 ug/L
RT: 3.89 min Scan# 792
Delta R.T. 0.01 min
Lab File: VU041886.D
Acq: 07 Jan 2021 20:40

Tgt Ion: 63 Resp: 3492
Ion Ratio Lower Upper
63 100
65 26.6 21.3 39.6
83 12.4 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0

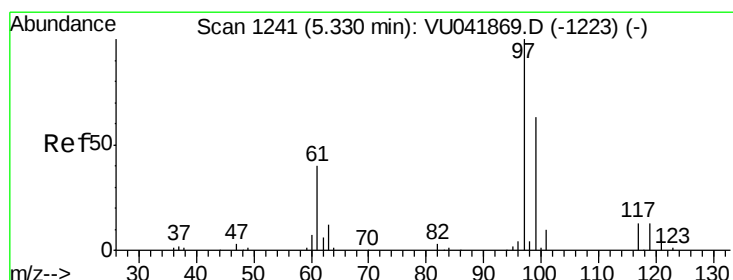
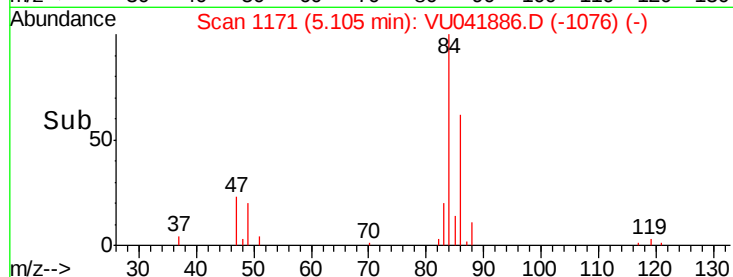
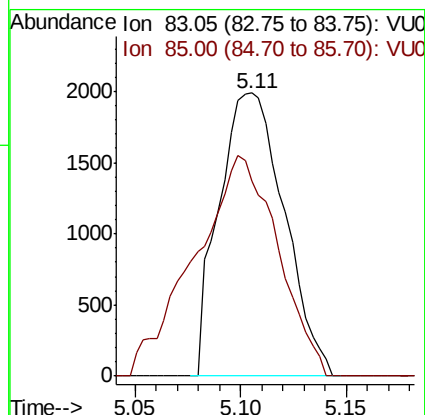
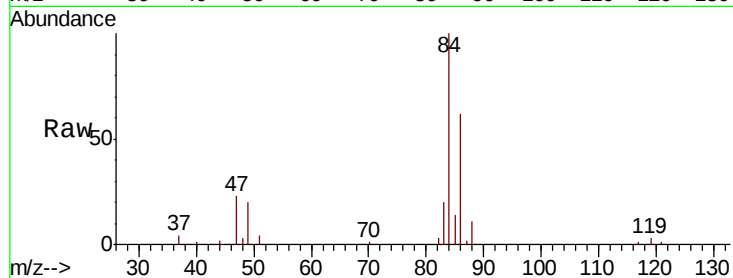




#25
Chloroform
Concen: 0.233 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.01 min
Lab File: VU041886.D
Acq: 07 Jan 2021 20:40

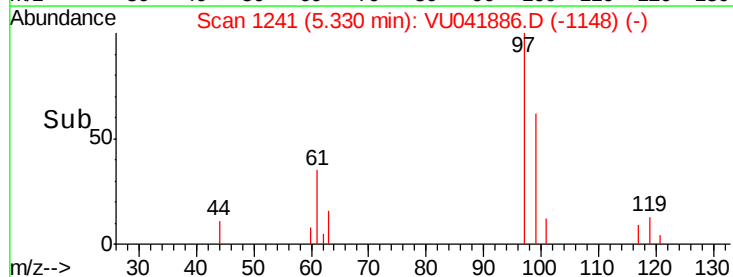
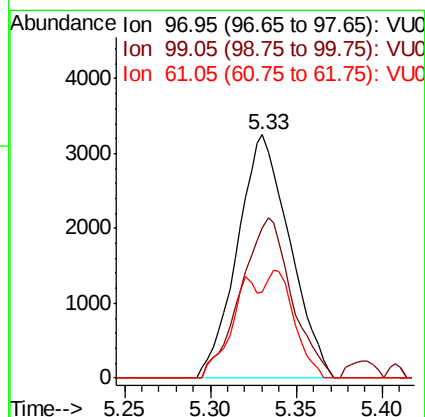
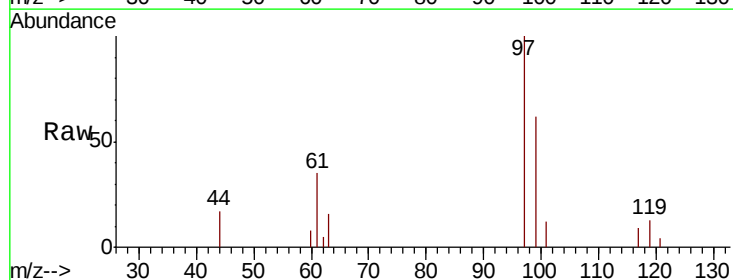
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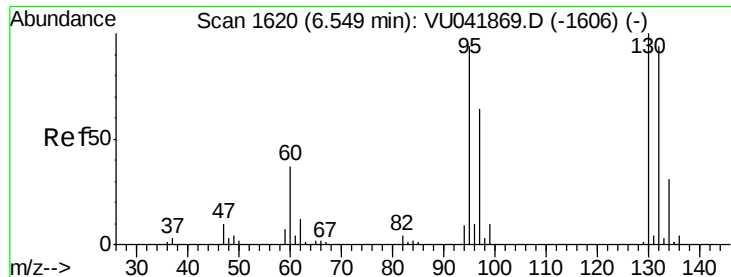
Tot Ion: 83 Resp: 4271
Ion Ratio Lower Upper
83 100
85 69.1 44.2 82.0



#29
1,1,1-Trichloroethane
Concen: 0.454 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VU041886.D
Acq: 07 Jan 2021 20:40

Tgt Ion: 97 Resp: 6904
Ion Ratio Lower Upper
97 100
99 63.5 51.3 76.9
61 23.0 36.5 54.7#

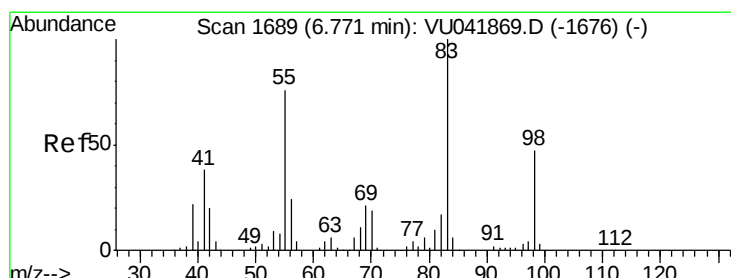
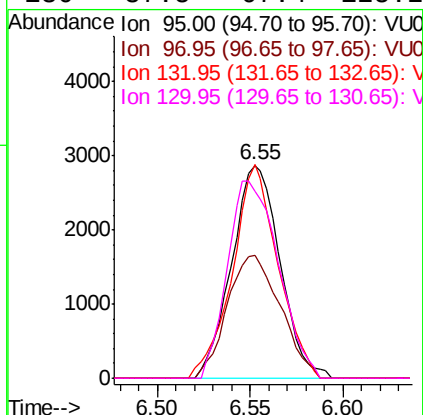
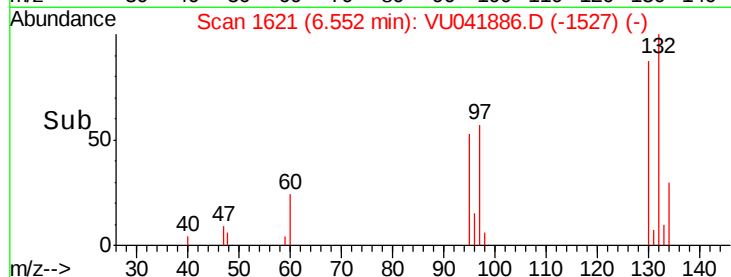
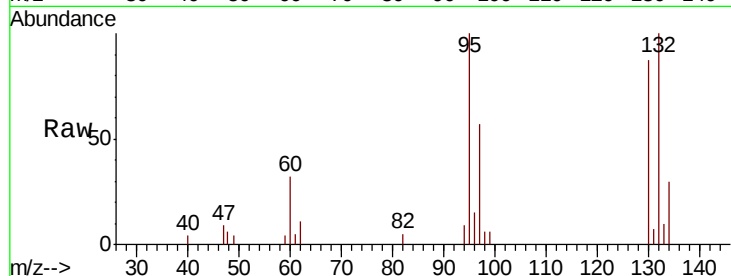




#34
 Trichloroethene
 Concen: 0.487 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041886.D
 Acq: 07 Jan 2021 20:40

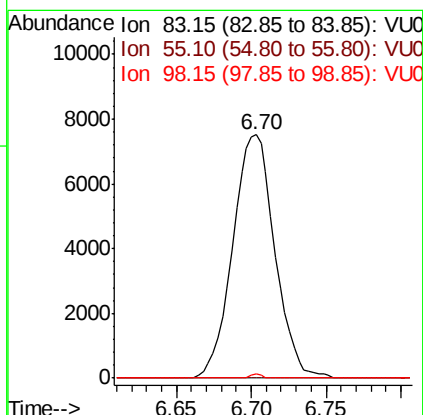
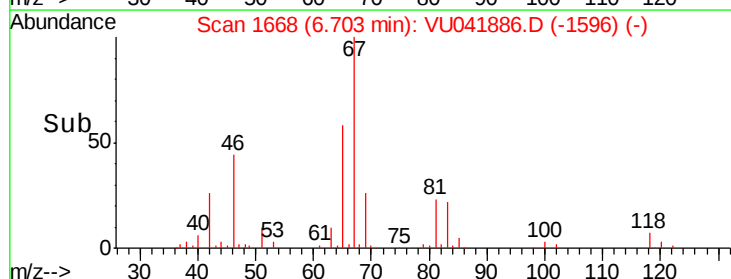
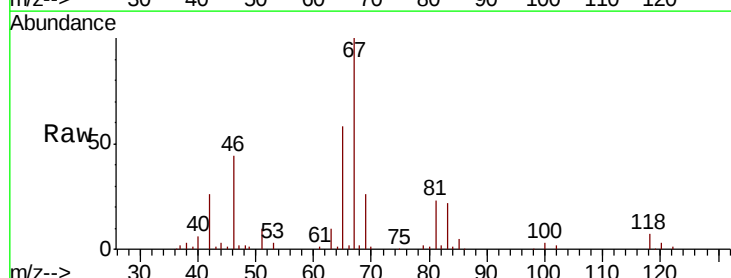
Instrument :
 MSVOA_U
 ClientSampleId :

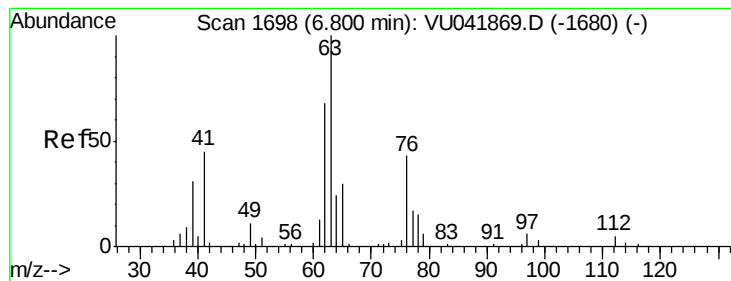
Tot Ion:	95	Resp:	5191
Ion	Ratio	Lower	Upper
95	100		
97	57.5	43.9	81.5
132	100.3	63.1	117.3
130	87.5	67.4	125.2



#35
 Methylcyclohexane
 Concen: 0.853 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041886.D
 Acq: 07 Jan 2021 20:40

Tgt Ion:	83	Resp:	14693
Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.2	91.8#
98	0.4	36.6	54.8#





#37

1,2-Dichloropropane

Concen: 0.604 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Instrument :

MSVOA_U

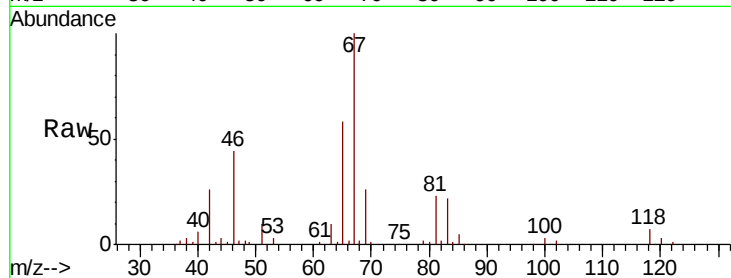
ClientSampleId :

Tot Ion: 63 Resp: 6545

Ion Ratio Lower Upper

63 100

112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU041886.D (-1668) (-)

Ion 112.10 (111.80 to 112.80): VU041886.D (-1668) (-)

6.70

4000

3000

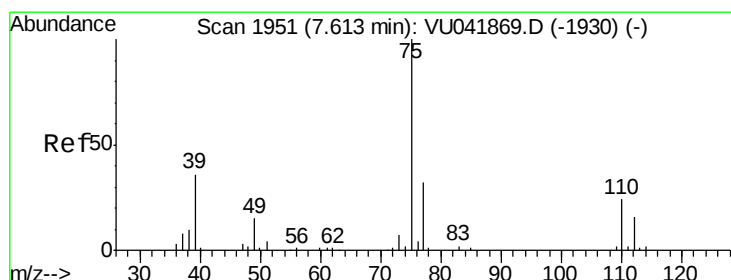
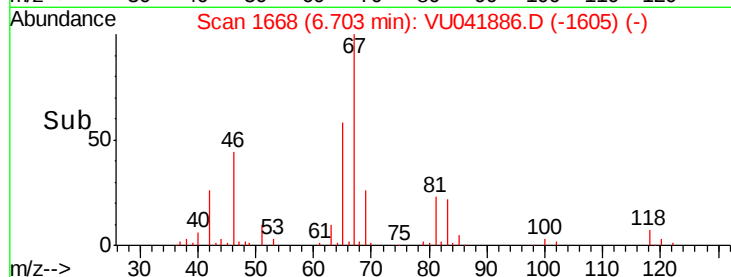
2000

1000

0

6.65 6.70 6.75

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.079 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU041886.D

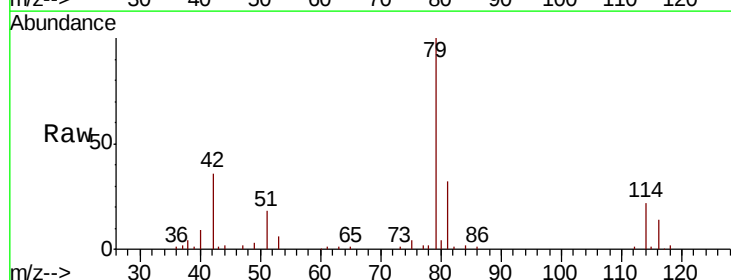
Acq: 07 Jan 2021 20:40

Tgt Ion: 75 Resp: 1262

Ion Ratio Lower Upper

75 100

77 56.9 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041886.D (-1938) (-)

Ion 77.05 (76.75 to 77.75): VU041886.D (-1938) (-)

7.57

800

600

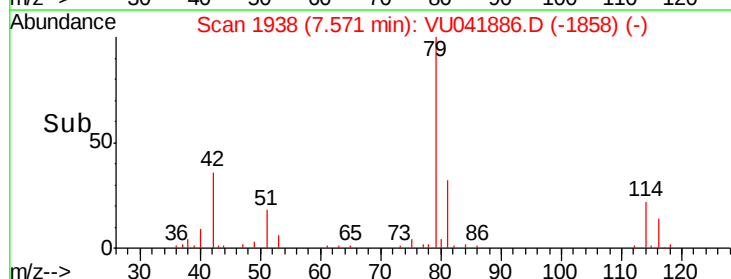
400

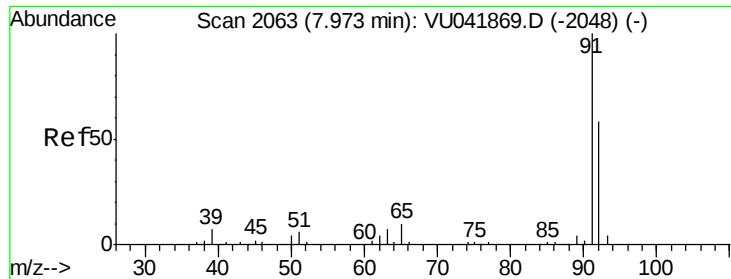
200

0

7.55 7.60

Time-->





#42

Toluene

Concen: 0.036 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Instrument :

MSVOA_U

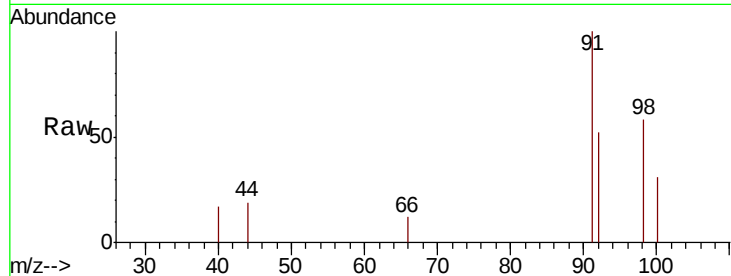
ClientSampleId :

Tot Ion: 91 Resp: 1554

Ion Ratio Lower Upper

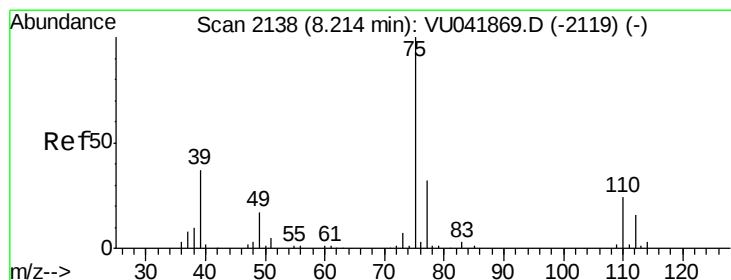
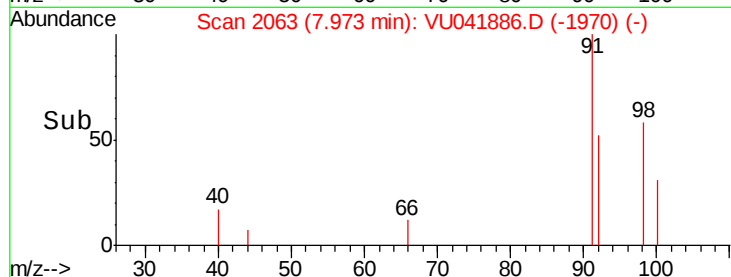
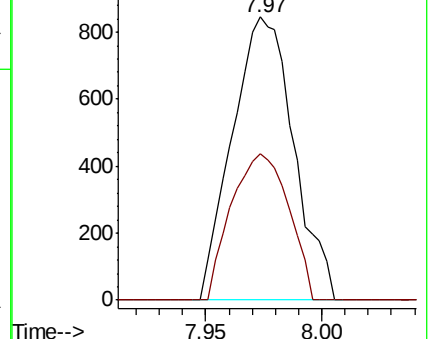
91 100

92 51.7 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) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.069 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041886.D

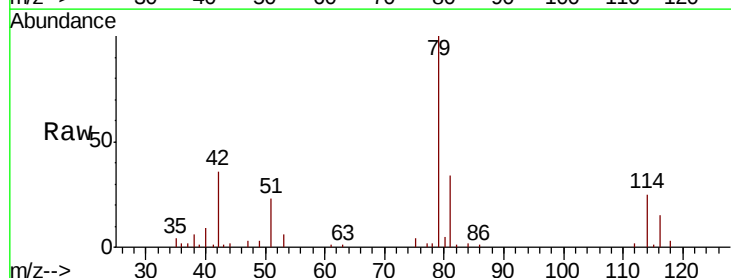
Acq: 07 Jan 2021 20:40

Tgt Ion: 75 Resp: 998

Ion Ratio Lower Upper

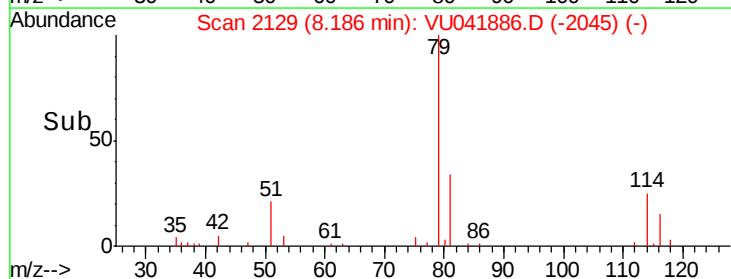
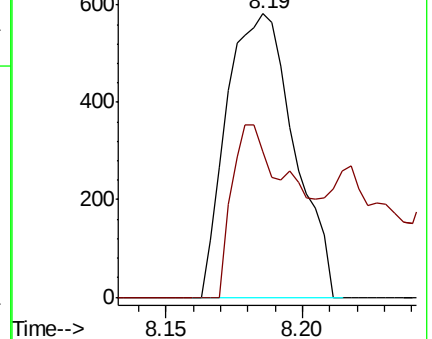
75 100

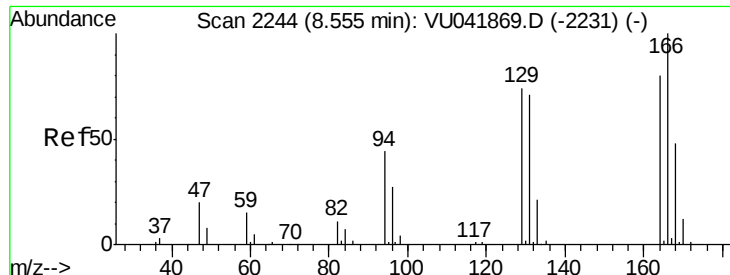
77 51.4 23.8 44.2#



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

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





#47

Tetrachloroethene

Concen: 5.867 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 43753

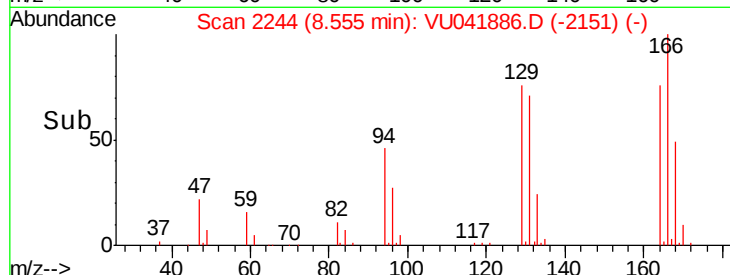
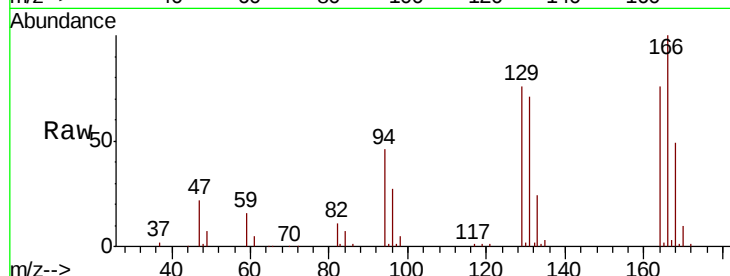
Ion Ratio Lower Upper

164 100

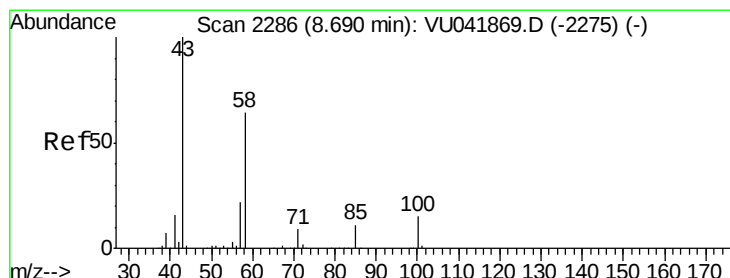
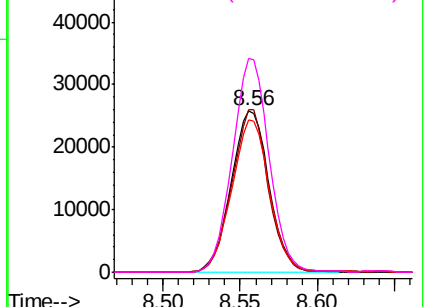
129 100.5 72.2 134.0

131 94.2 66.9 124.3

166 132.4 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: 3.020 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Tgt Ion: 43 Resp: 16961

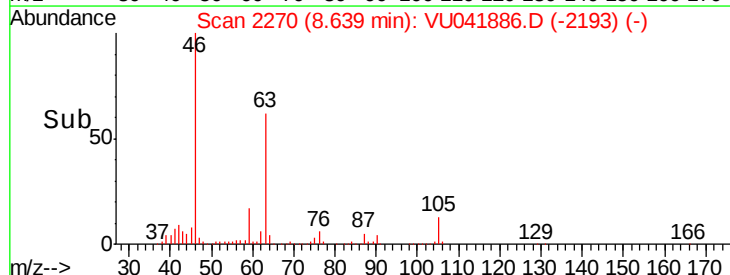
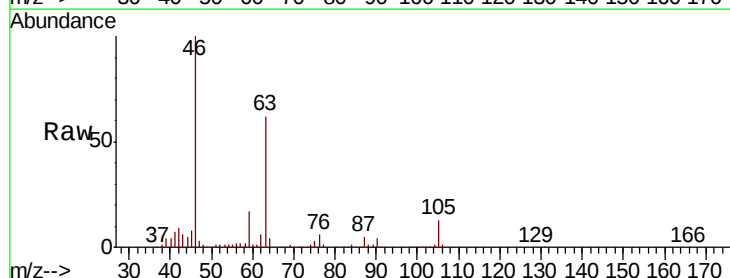
Ion Ratio Lower Upper

43 100

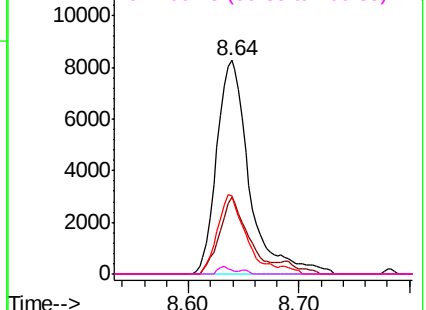
58 31.3 47.9 71.9#

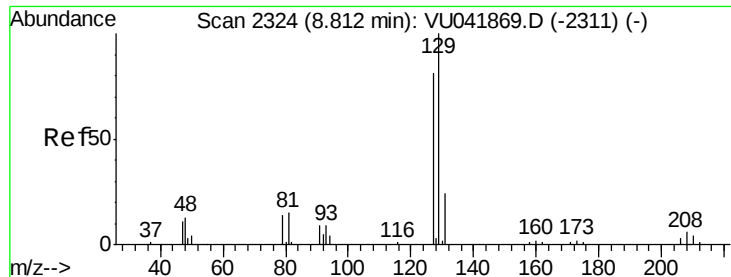
57 32.1 16.5 24.7#

100 1.3 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: 4.514 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041886.D

Acq: 07 Jan 2021 20:40

Instrument :

MSVOA_U

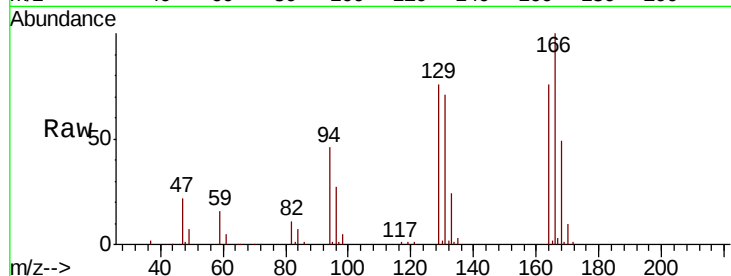
ClientSampled :

Tot Ion:129 Resp: 41576

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

25000

20000

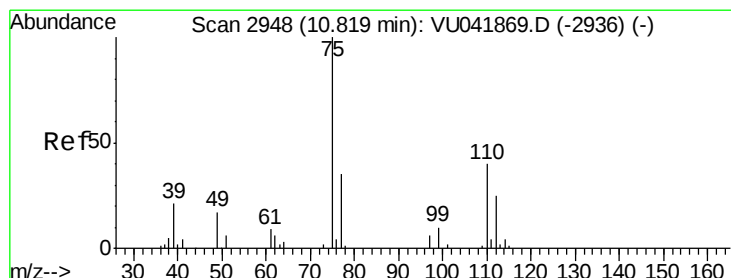
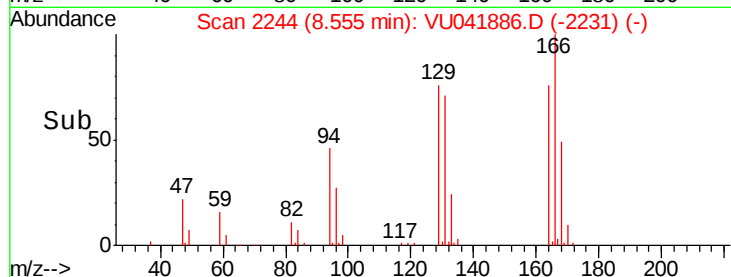
15000

10000

5000

0

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.735 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041886.D

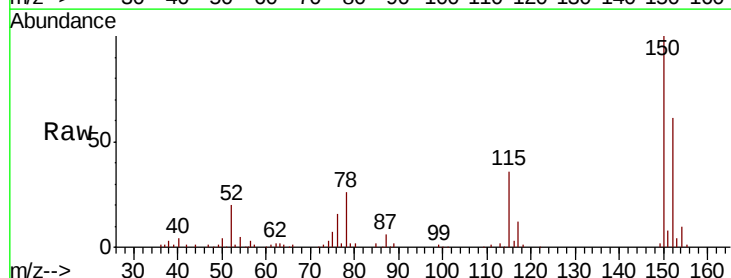
Acq: 07 Jan 2021 20:40

Tgt Ion: 75 Resp: 5982

Ion Ratio Lower Upper

75 100

77 33.7 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

4000

3000

2000

1000

0

Time-->

