

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041874.D
 Acq On : 07 Jan 2021 15:53
 Operator : SY/MD
 Sample : M1026-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 04:59:48 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	170860	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	160153	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	67429	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	45679	3.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.40%
7) Chloroethane-d5	1.92	69	48224	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.20%
11) 1,1-Dichloroethene-d2	2.58	63	71295	2.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.00%#
20) 2-Butanone-d5	4.65	46	187374	48.83	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.66%
24) Chloroform-d	5.08	84	105703	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
26) 1,2-Dichloroethane-d4	5.72	65	61704	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.74	84	205087	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	6.70	67	69571	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.90	98	165234	3.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.80%
43) trans-1,3-Dichloropropene-	8.19	79	24810	3.84	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.80%
46) 2-Hexanone-d5	8.64	63	144905	41.00	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	56411	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	59390	4.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	6348	0.439 ug/L	93
3) Chloromethane	1.52	50	685	0.049 ug/L	86
8) Chloroethane	1.94	64	391	0.037 ug/L #	44
9) Trichlorofluoromethane	2.15	101	847	0.043 ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	901	0.077 ug/L #	31
12) 1,1-Dichloroethene	2.58	96	1161	0.100 ug/L #	1
13) Acetone	2.66	43	4708	1.929 ug/L	51
17) Methyl tert-butyl Ether	3.38	73	6790	0.220 ug/L #	89
18) trans-1,2-Dichloroethene	3.37	96	7599	0.634 ug/L	88
19) 1,1-Dichloroethane	3.88	63	1273	0.057 ug/L	90
22) cis-1,2-Dichloroethene	4.68	96	24353	1.838 ug/L	98
25) Chloroform	5.11	83	2744	0.122 ug/L	79
33) Benzene	5.79	78	2157	0.042 ug/L	100
34) Trichloroethene	6.55	95	136960	10.641 ug/L	99
35) Methylcyclohexane	6.70	83	16139	0.776 ug/L #	20
37) 1,2-Dichloropropane	6.70	63	7128	0.544 ug/L #	88
44) trans-1,3-Dichloropropene	8.18	75	1283	0.074 ug/L	85

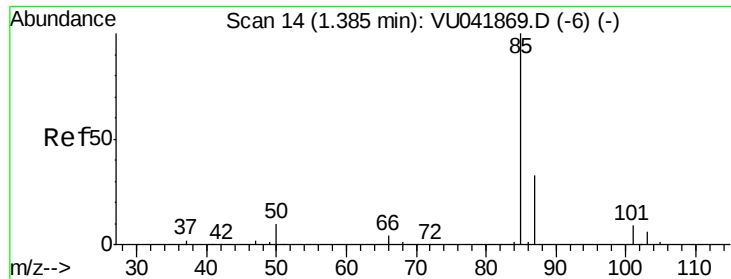
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
Data File : VU041874.D
Acq On : 07 Jan 2021 15:53
Operator : SY/MD
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ClientSampleId :

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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)
47) Tetrachloroethene	8.56	164	18043	2.003	ug/L	96
48) 2-Hexanone	8.64	43	15904	2.344	ug/L #	65
49) Dibromochloromethane	8.56	129	18370	1.651	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	8220	0.835	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 0.439 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

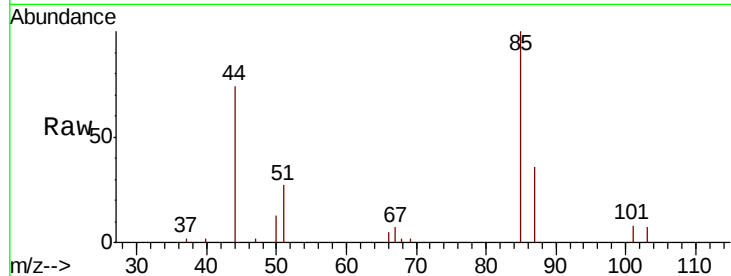
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 6348

Ion Ratio Lower Upper

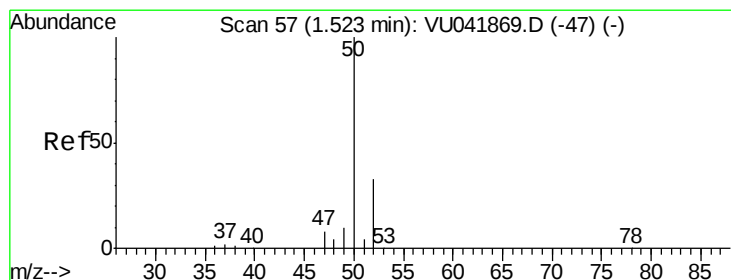
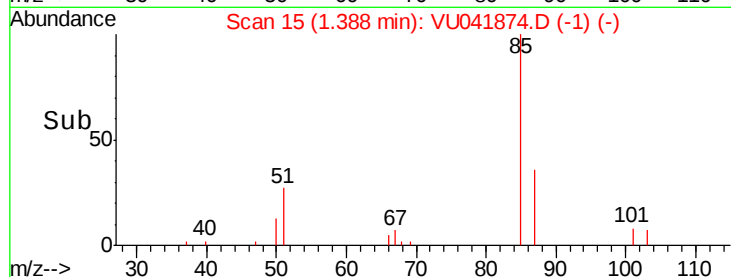
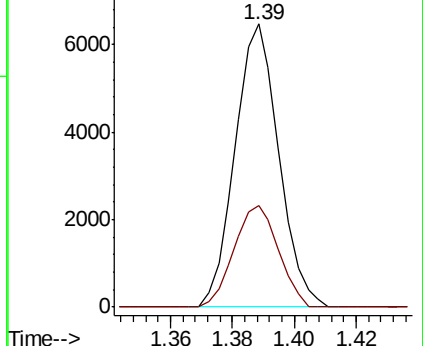
85 100

87 36.4 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: 0.049 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041874.D

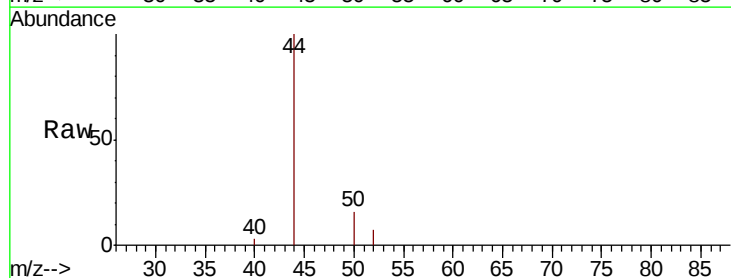
Acq: 07 Jan 2021 15:53

Tgt Ion: 50 Resp: 685

Ion Ratio Lower Upper

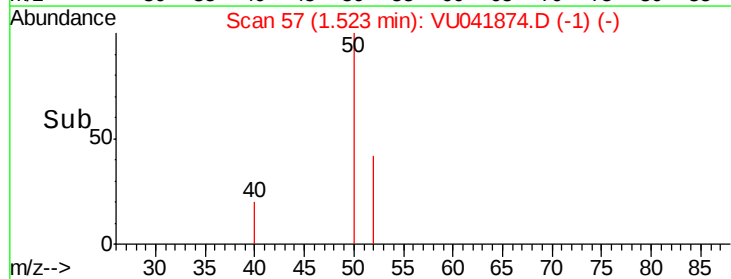
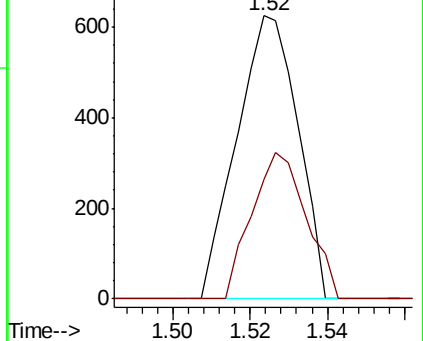
50 100

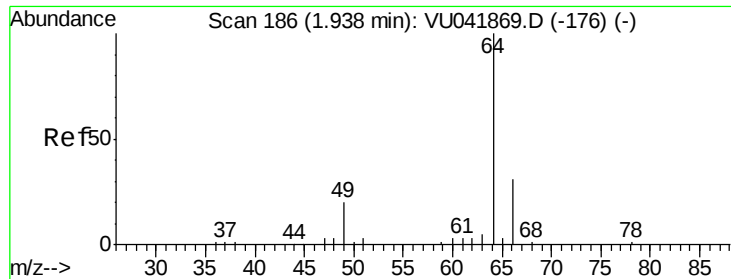
52 42.4 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

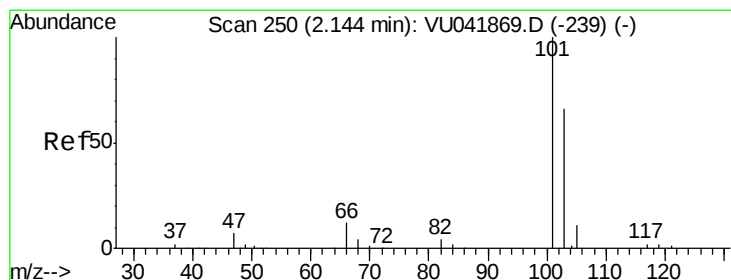
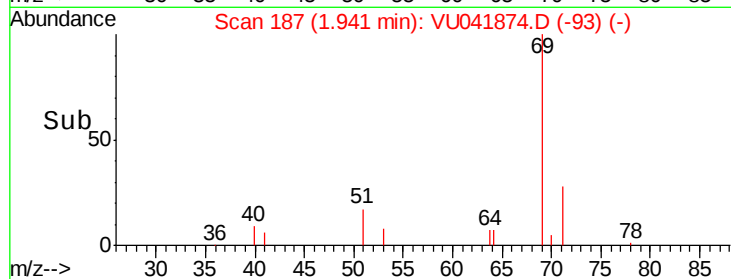
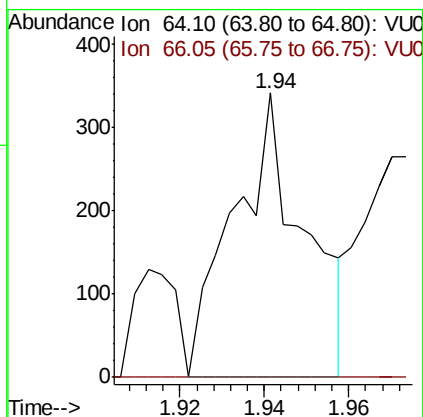
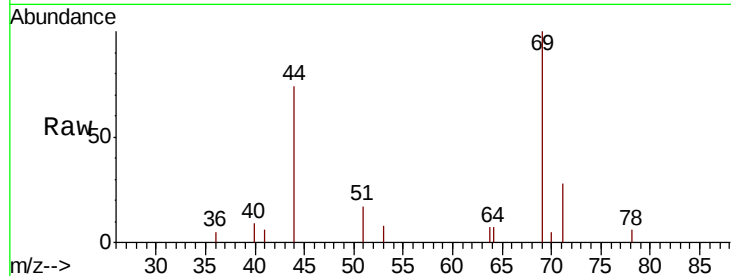




#8
Chloroethane
Concen: 0.037 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

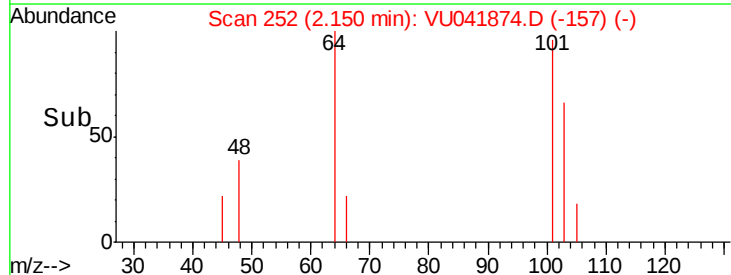
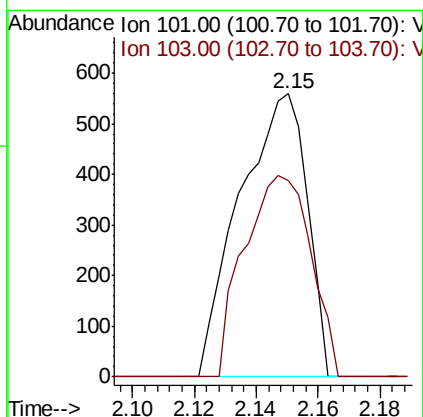
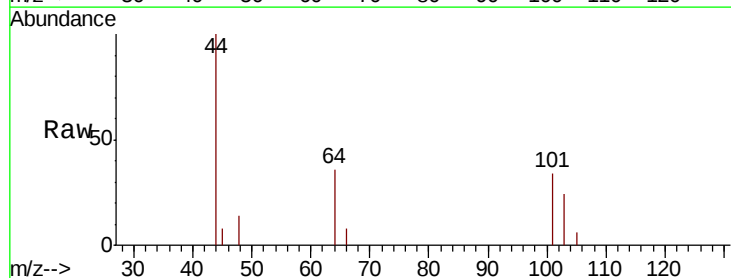
Instrument :
MSVOA_U
ClientSampleId :

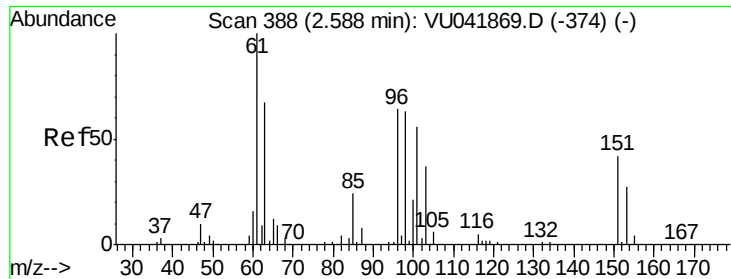
Tot Ion: 64 Resp: 391
Ion Ratio Lower Upper
64 100
66 0.0 21.6 40.0#



#9
Trichlorofluoromethane
Concen: 0.043 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.01 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

Tgt Ion:101 Resp: 847
Ion Ratio Lower Upper
101 100
103 70.4 51.1 76.7





#10

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

Concen: 0.077 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.01 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

Instrument :

MSVOA_U

ClientSampleId :

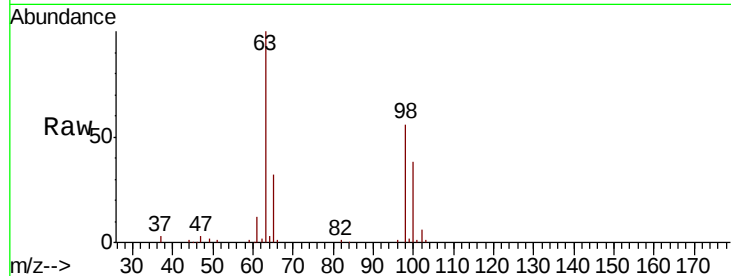
Tot Ion:101 Resp: 901

Ion Ratio Lower Upper

101 100

85 2.3 33.6 50.4#

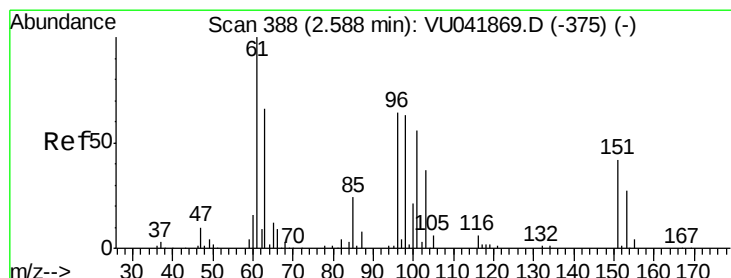
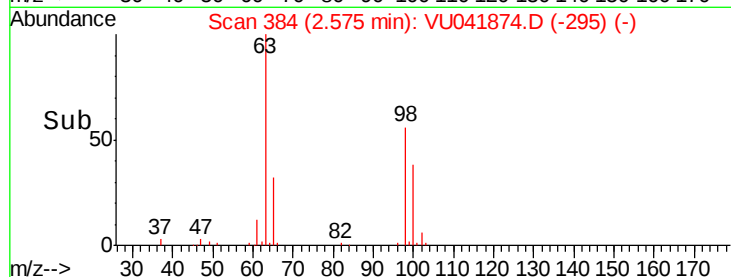
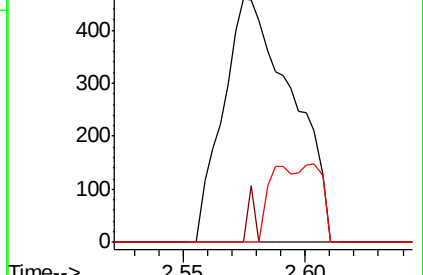
151 11.1 56.2 84.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.100 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.00 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

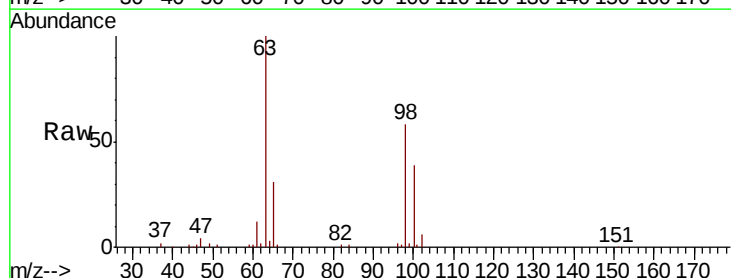
Tgt Ion: 96 Resp: 1161

Ion Ratio Lower Upper

96 100

61 620.0 123.8 230.0#

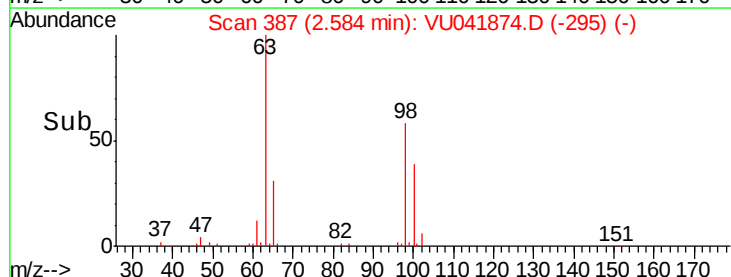
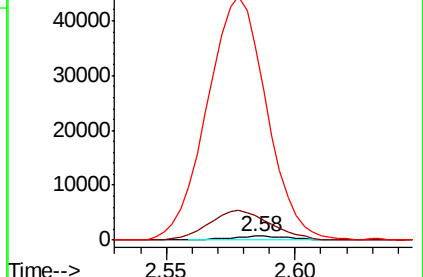
63 5012.1 81.0 150.4#

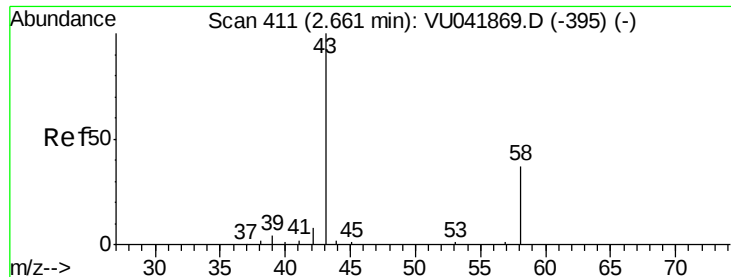


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.929 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.00 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

Instrument :

MSVOA_U

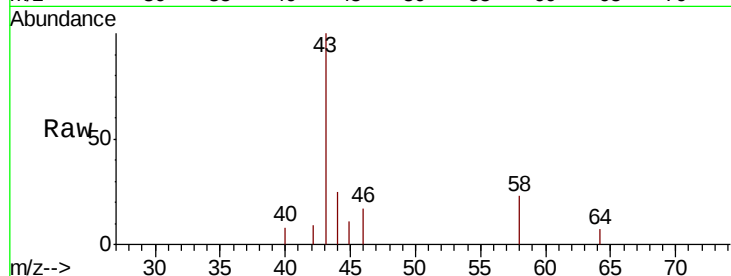
ClientSampleId :

Tot Ion: 43 Resp: 4708

Ion Ratio Lower Upper

43 100

58 7.4 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041869.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041869.D (-395) (-)

2.66

1500

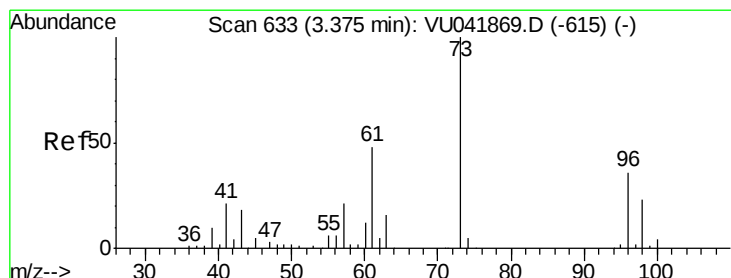
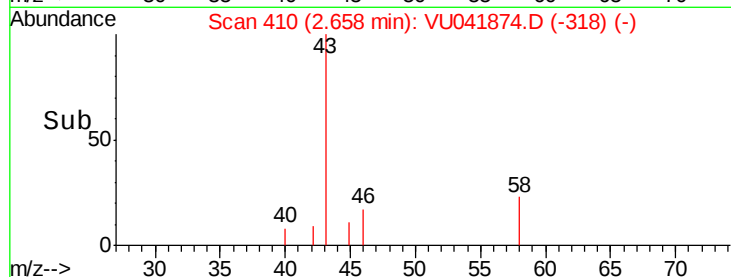
1000

500

0

2.60 2.65 2.70 2.75

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.220 ug/L

RT: 3.38 min Scan# 634

Delta R.T. 0.00 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

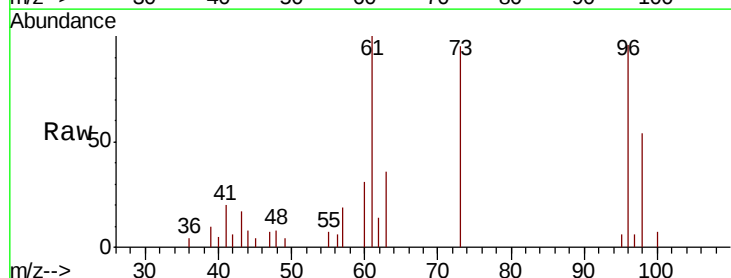
Tgt Ion: 73 Resp: 6790

Ion Ratio Lower Upper

73 100

43 10.0 14.7 22.1#

57 20.8 18.2 27.4



Abundance Ion 73.10 (72.80 to 73.80): VU041869.D (-615) (-)

Ion 43.05 (42.75 to 43.75): VU041869.D (-615) (-)

Ion 57.10 (56.80 to 57.80): VU041869.D (-615) (-)

4000

3000

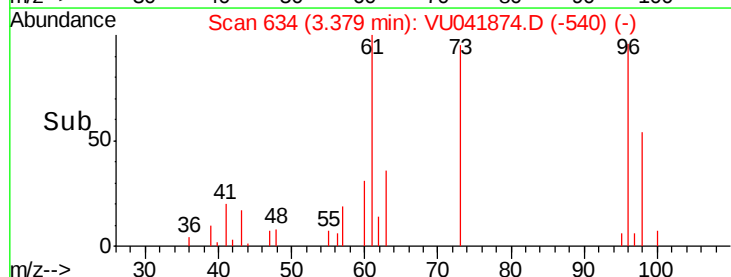
2000

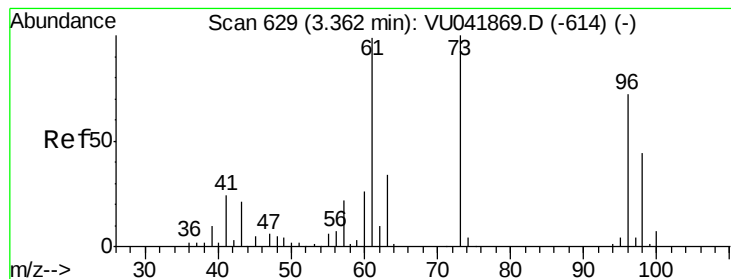
1000

0

3.30 3.35 3.40 3.45

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.634 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.01 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

Instrument :

MSVOA_U

ClientSampleId :

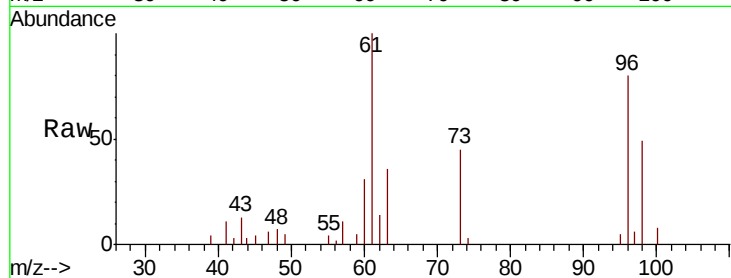
Tot Ion: 96 Resp: 7599

Ion Ratio Lower Upper

96 100

61 124.8 101.8 189.0

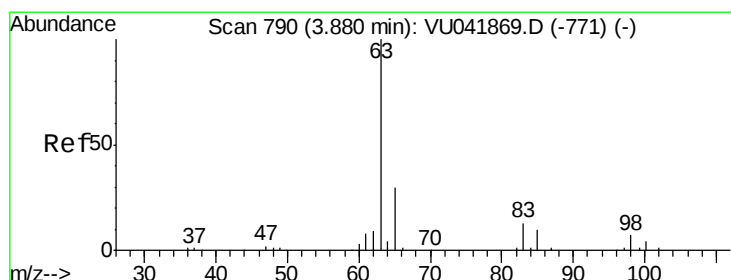
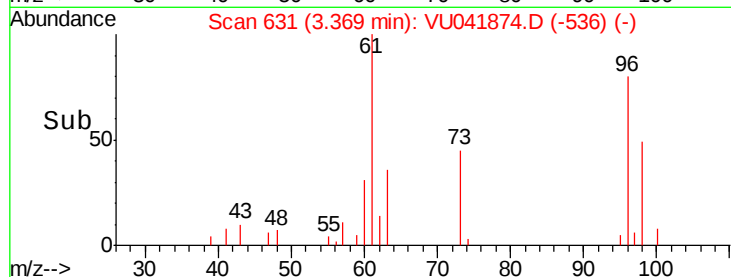
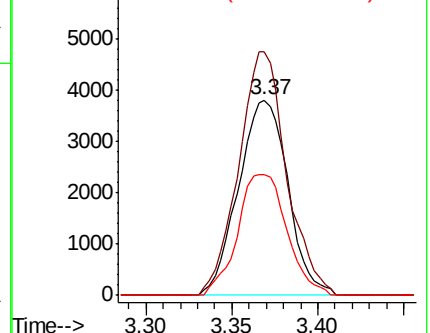
98 61.7 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VU041869.D (-614) (-)

Ion 61.05 (60.75 to 61.75): VU041869.D (-614) (-)

Ion 97.95 (97.65 to 98.65): VU041869.D (-614) (-)



#19

1,1-Dichloroethane

Concen: 0.057 ug/L

RT: 3.88 min Scan# 790

Delta R.T. 0.00 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

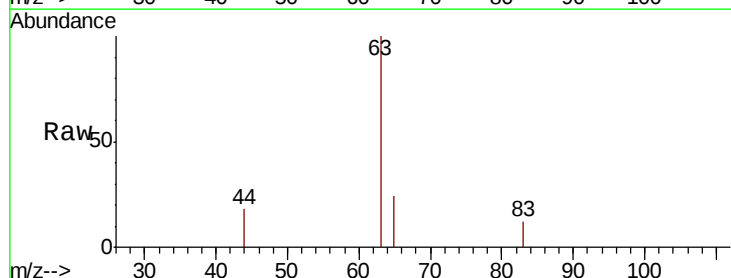
Tgt Ion: 63 Resp: 1273

Ion Ratio Lower Upper

63 100

65 23.9 21.3 39.6

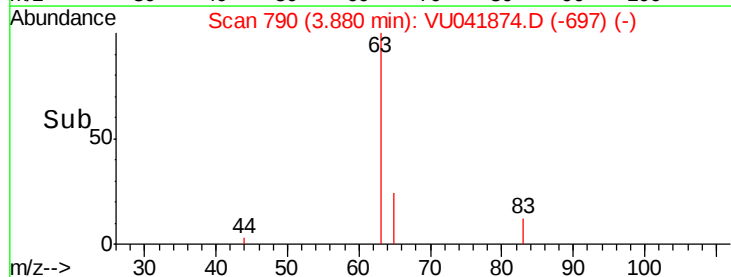
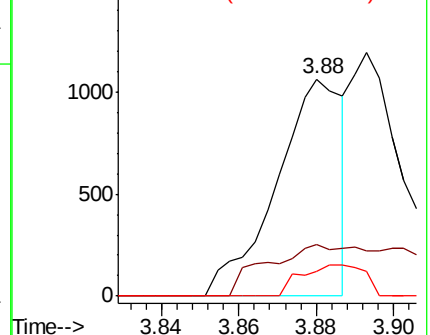
83 11.6 9.3 17.3

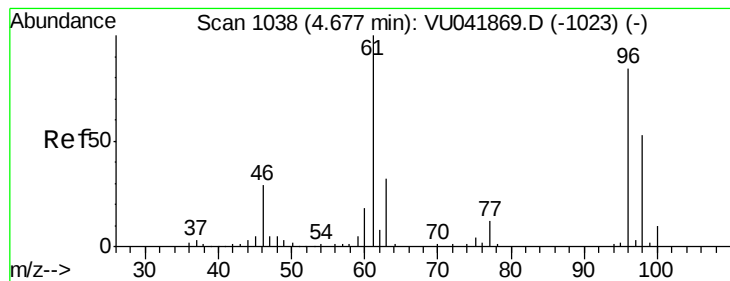


Abundance Ion 63.10 (62.80 to 63.80): VU041869.D (-771) (-)

Ion 65.10 (64.80 to 65.80): VU041869.D (-771) (-)

Ion 83.05 (82.75 to 83.75): VU041869.D (-771) (-)





#22

cis-1,2-Dichloroethene

Concen: 1.838 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

Instrument :
MSVOA_U
ClientSampleId :

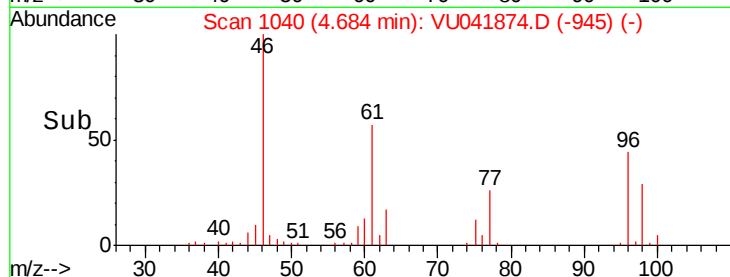
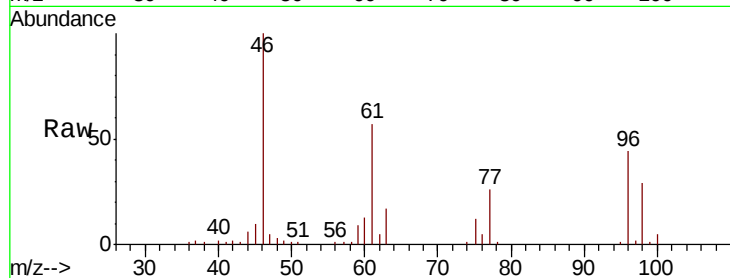
Tot Ion: 96 Resp: 24353

Ion Ratio Lower Upper

96 100

61 129.6 88.8 165.0

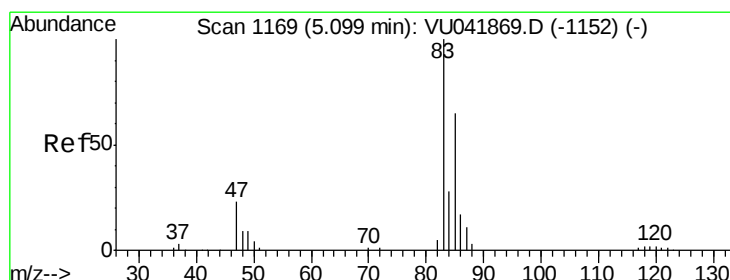
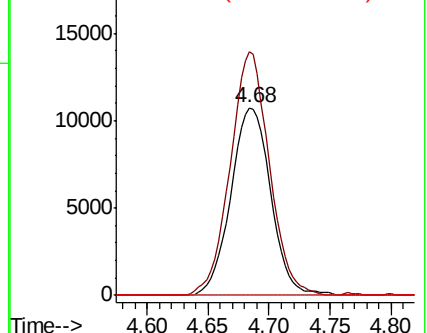
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#25

Chloroform

Concen: 0.122 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VU041874.D

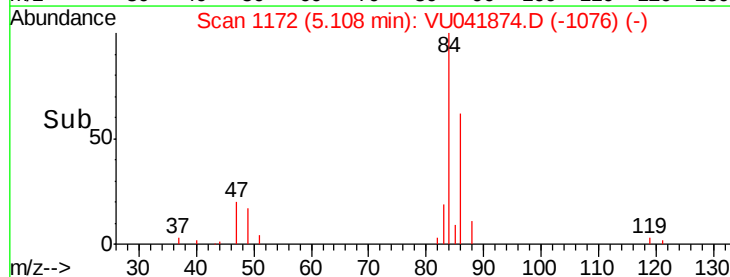
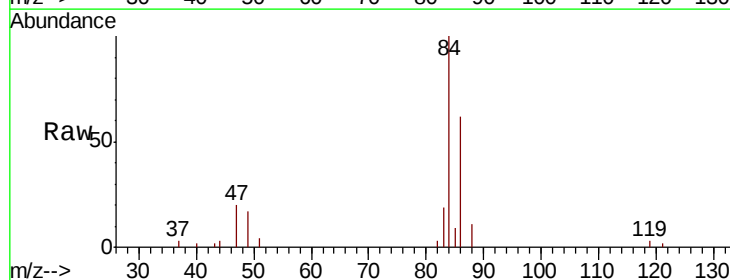
Acq: 07 Jan 2021 15:53

Tgt Ion: 83 Resp: 2744

Ion Ratio Lower Upper

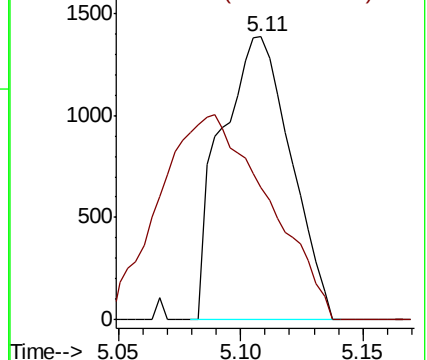
83 100

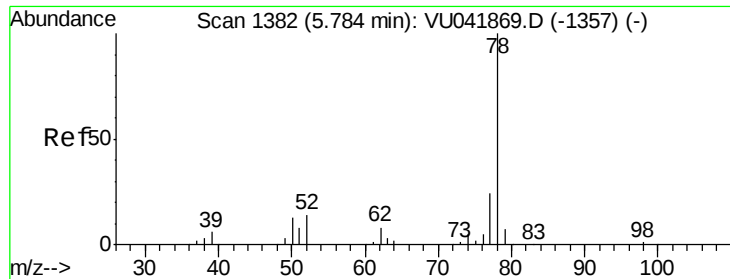
85 46.6 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

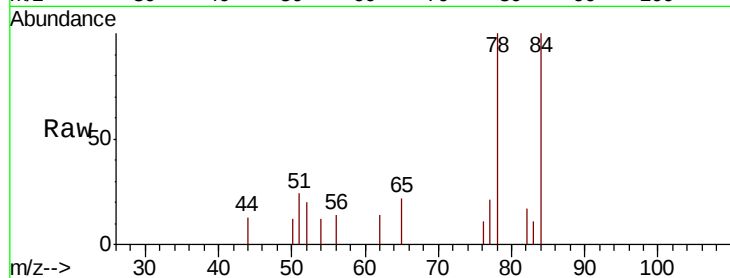




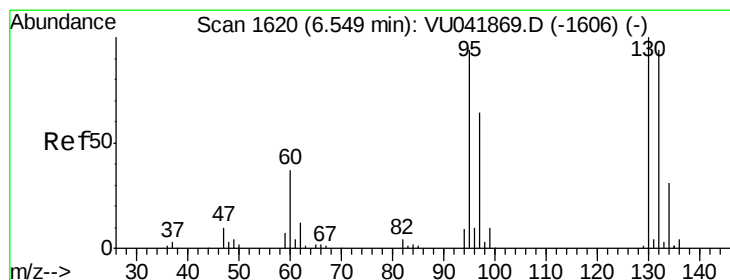
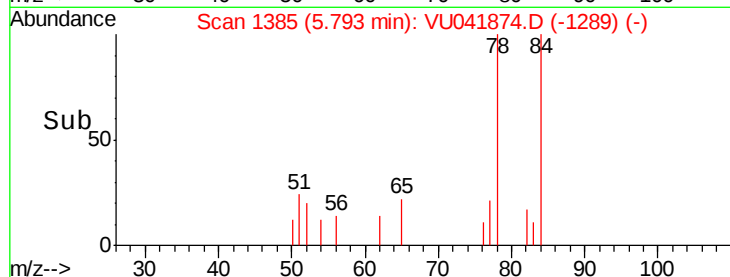
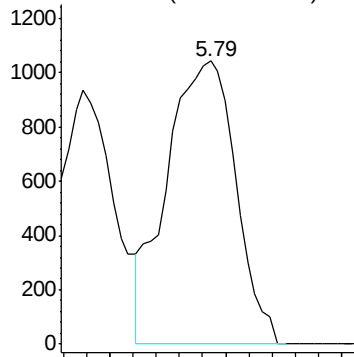
#33
Benzene
Concen: 0.042 ug/L
RT: 5.79 min Scan# 1385
Delta R.T. 0.01 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 2157



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 10.641 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

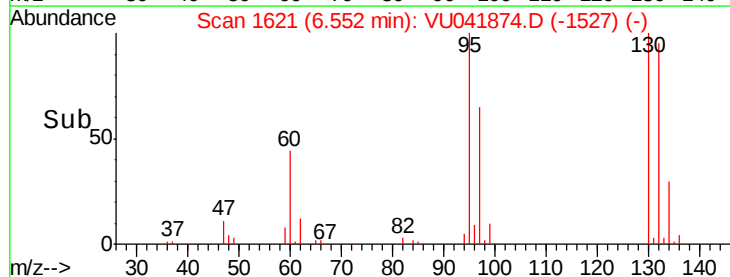
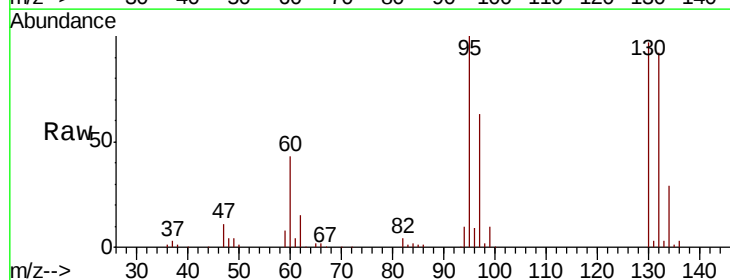
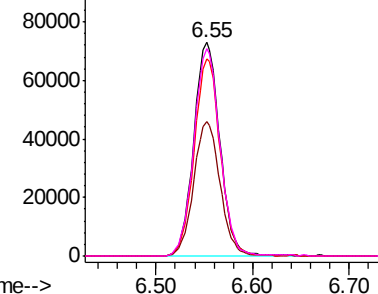
Tgt Ion: 95 Resp: 136960
Ion Ratio Lower Upper
95 100
97 62.9 43.9 81.5
132 92.5 63.1 117.3
130 97.3 67.4 125.2

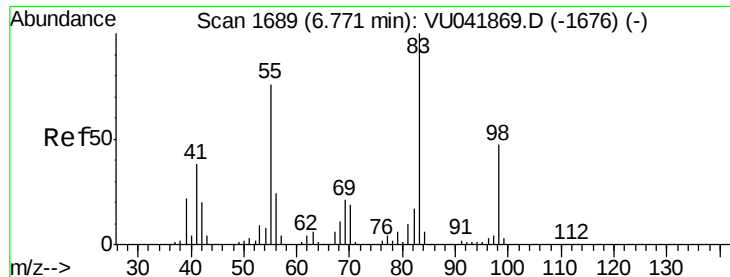
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

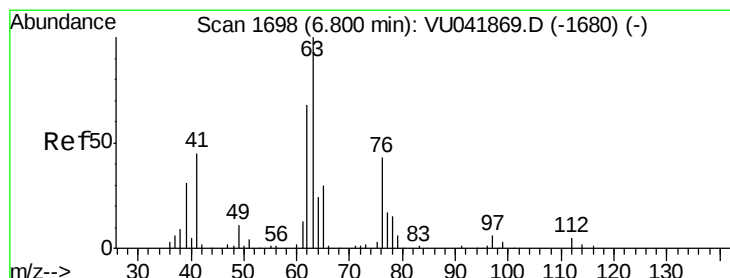
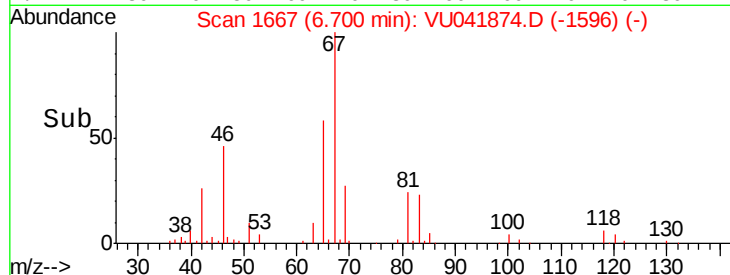
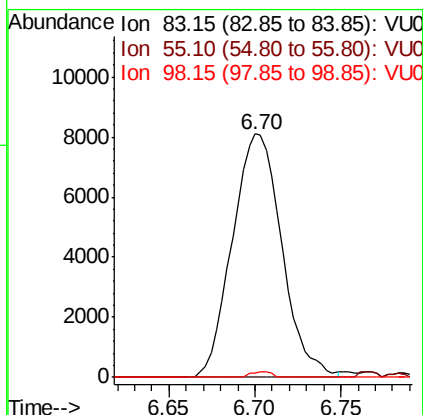
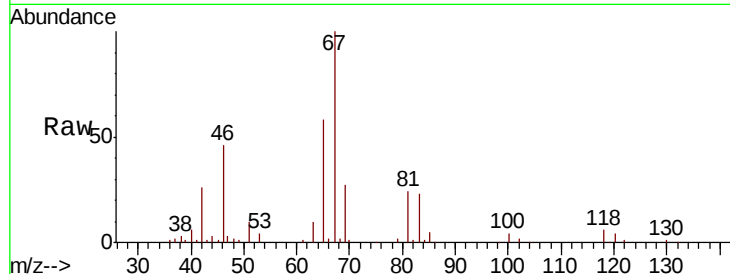




#35
Methvlcvclohexane
Concen: 0.776 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

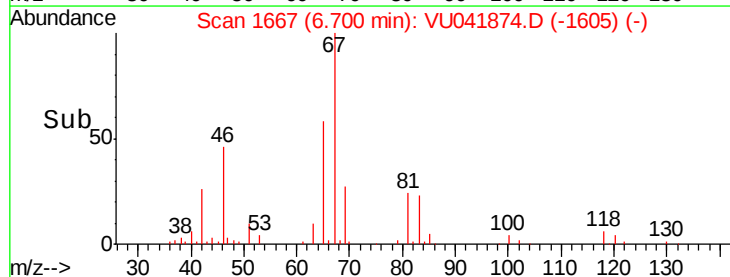
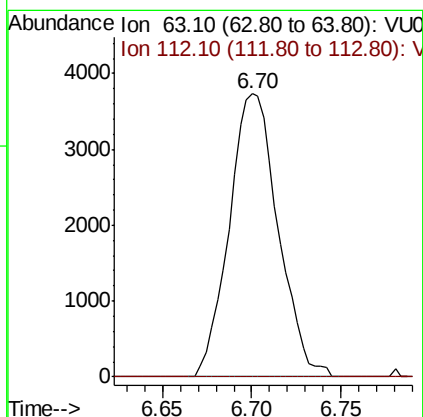
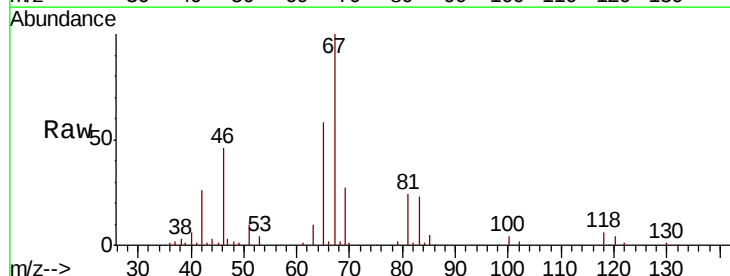
Instrument :
MSVOA_U
ClientSampled :

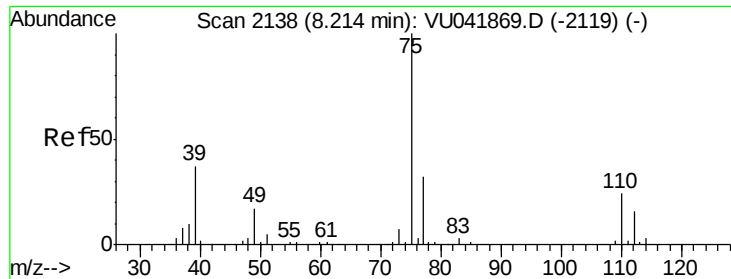
Tot Ion: 83 Resp: 16139
Ion Ratio Lower Upper
83 100
55 0.8 61.2 91.8#
98 0.9 36.6 54.8#



#37
1,2-Dichloropropane
Concen: 0.544 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

Tgt Ion: 63 Resp: 7128
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#

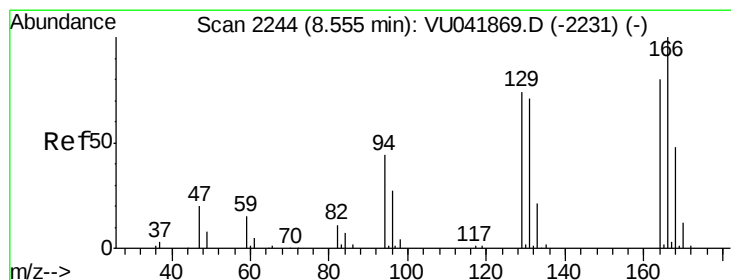
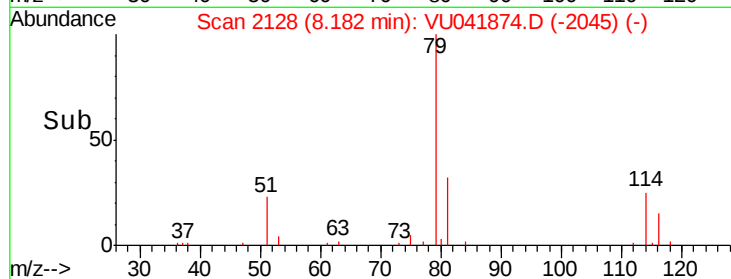
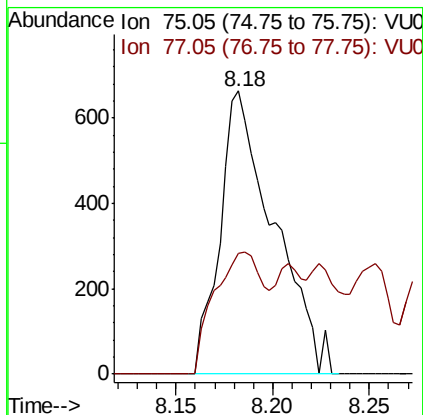
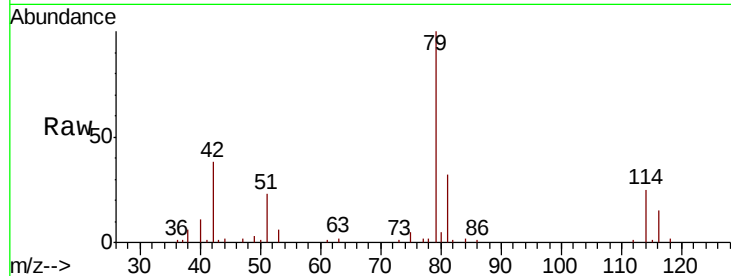




#44
trans-1,3-Dichloropropene
Concen: 0.074 ug/L
RT: 8.18 min Scan# 2128
Delta R.T. -0.03 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

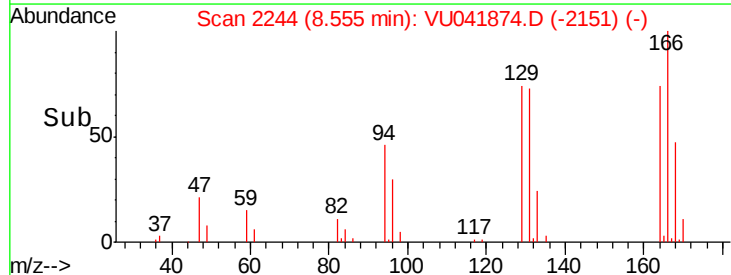
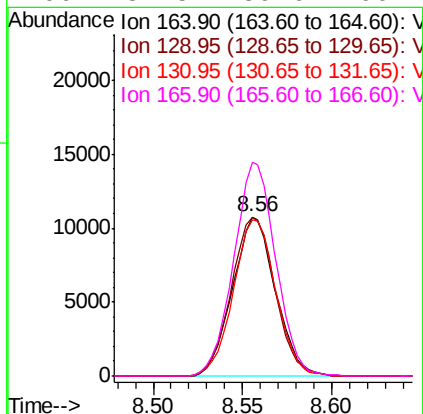
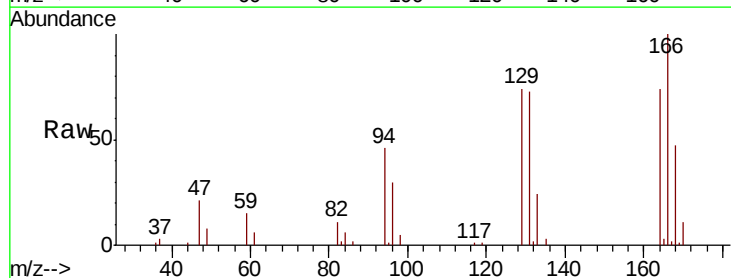
Instrument :
MSVOA_U
ClientSampleId :

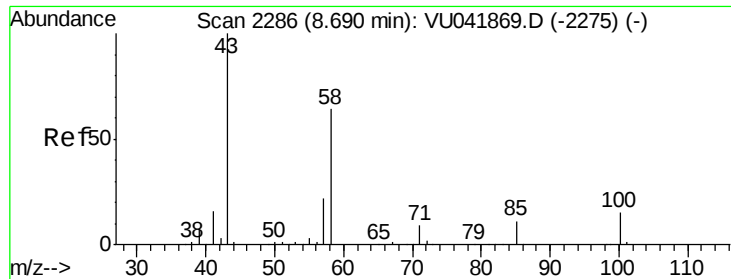
Tot Ion: 75 Resp: 1283
Ion Ratio Lower Upper
75 100
77 42.5 23.8 44.2



#47
Tetrachloroethene
Concen: 2.003 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. 0.00 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

Tgt Ion:164 Resp: 18043
Ion Ratio Lower Upper
164 100
129 100.0 72.2 134.0
131 98.3 66.9 124.3
166 134.5 89.6 166.4

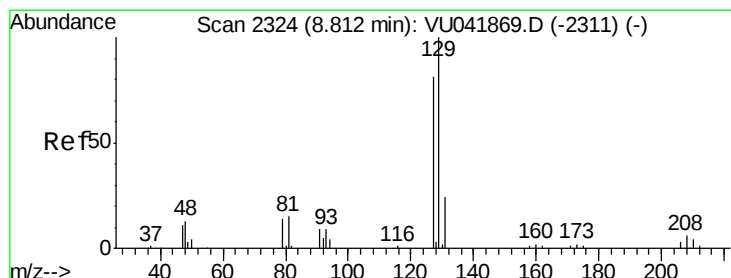
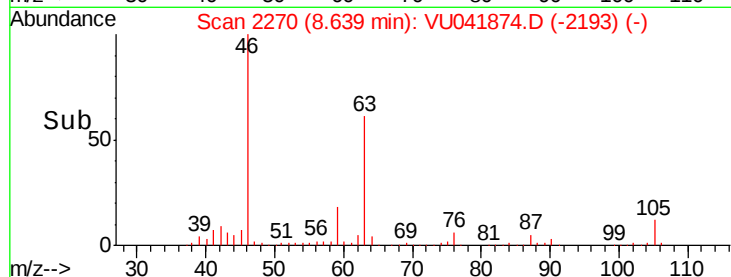
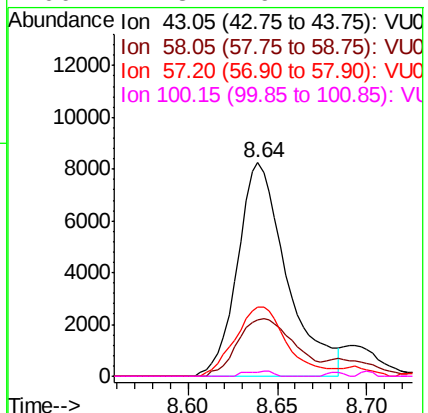
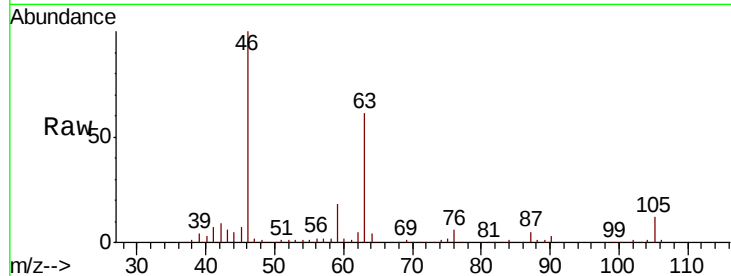




#48
2-Hexanone
Concen: 2.344 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

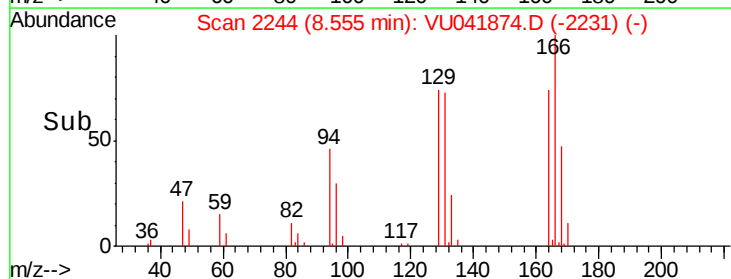
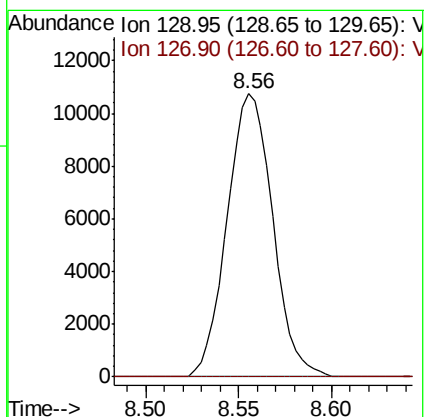
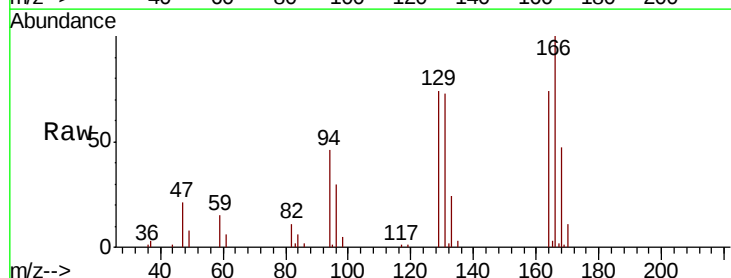
Instrument :
MSVOA_U
ClientSampleId :

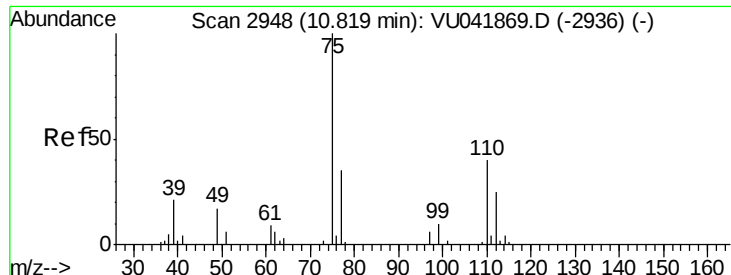
Tot Ion: 43 Resp: 15904
Ion Ratio Lower Upper
43 100
58 31.0 47.9 71.9#
57 34.4 16.5 24.7#
100 1.3 9.4 14.2#



#49
Dibromochloromethane
Concen: 1.651 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041874.D
Acq: 07 Jan 2021 15:53

Tgt Ion: 129 Resp: 18370
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.7#





#59

1,2,3-Trichloropropane

Concen: 0.835 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041874.D

Acq: 07 Jan 2021 15:53

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 8220

Ion Ratio Lower Upper

75 100

77 30.4 26.2 39.2

