

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121721\
 Data File : VU046475.D
 Acq On : 17 Dec 2021 16:26
 Operator : SY/MD
 Sample : M5066-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 17 23:29:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 17 03:50:47 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

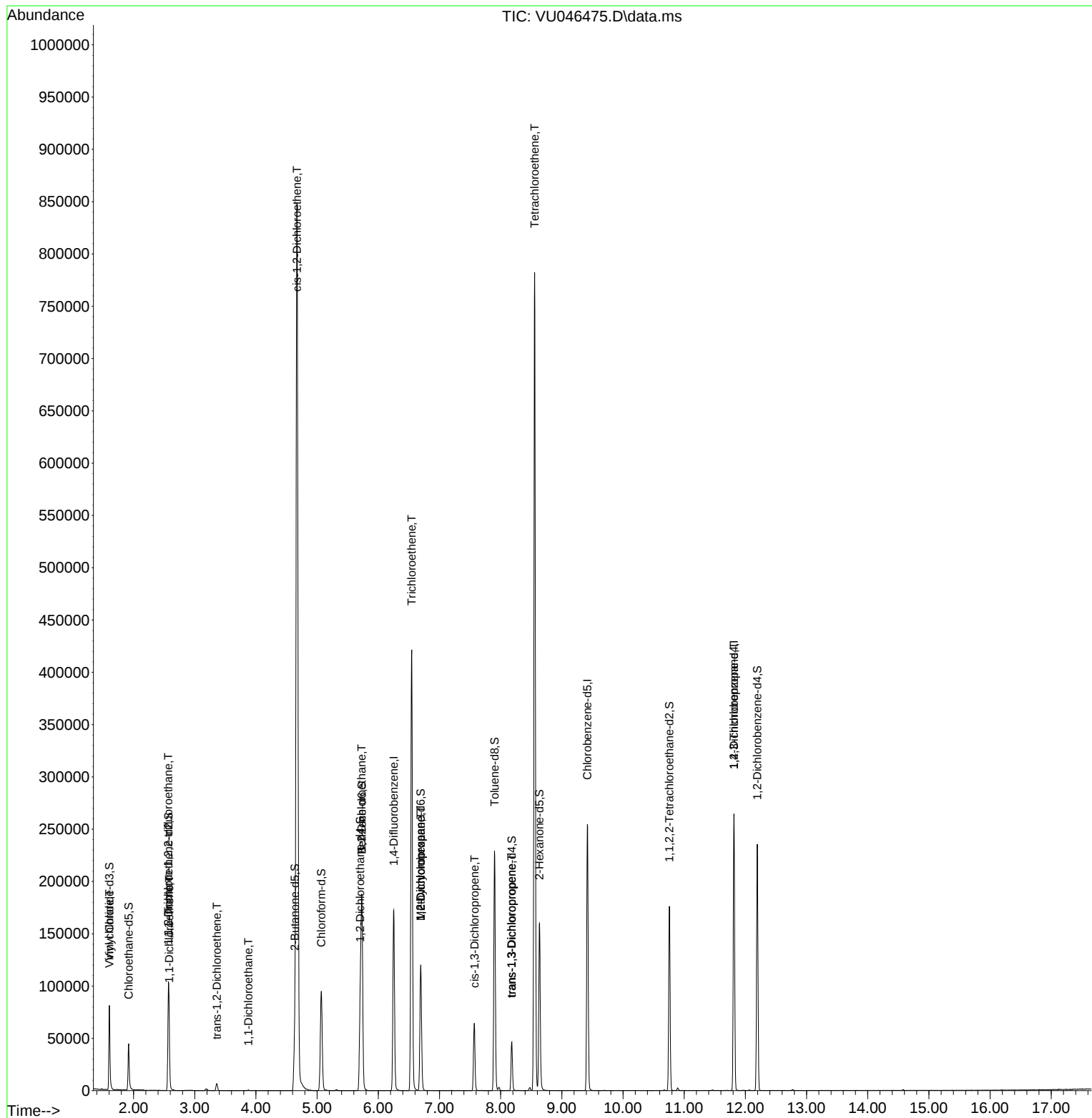
Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	139181	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	139654	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	69508	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	45109	39.345	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	78.680%		
7) Chloroethane-d5	1.919	69	36259	41.191	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.380%		
11) 1,1-Dichloroethene-d2	2.572	63	62186	30.214	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	60.420%		
21) 2-Butanone-d5	4.636	46	76395	83.820	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	83.820%		
24) Chloroform-d	5.070	84	91070	47.566	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.140%		
26) 1,2-Dichloroethane-d4	5.703	65	61255	47.673	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.340%		
32) Benzene-d6	5.732	84	174963	43.711	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	87.420%		
36) 1,2-Dichloropropane-d6	6.694	67	56223	45.322	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	90.640%		
41) Toluene-d8	7.899	98	150623	41.329	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	82.660%		
43) trans-1,3-Dichloroprop...	8.182	79	26626	44.463	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	88.920%		
47) 2-Hexanone-d5	8.632	63	57773	98.224	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	98.220%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	84070	44.687	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	89.380%		
66) 1,2-Dichlorobenzene-d4	12.195	152	59966	44.798	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.600%		
Target Compounds						Qvalue
5) Vinyl chloride	1.607	62	20055	14.685	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.568	101	474	0.468	ug/L #	21
12) 1,1-Dichloroethene	2.584	96	2028	2.107	ug/L #	1
17) trans-1,2-Dichloroethene	3.363	96	3028	2.973	ug/L	83
19) 1,1-Dichloroethane	3.877	63	982	0.530	ug/L #	88
20) cis-1,2-Dichloroethene	4.671	96	445337	403.000	ug/L	99
27) 1,2-Dichloroethane	5.726	62	963	0.631	ug/L #	73
34) Trichloroethene	6.546	95	144422	129.699	ug/L	98
35) Methylcyclohexane	6.694	83	14106	8.170	ug/L #	20
37) 1,2-Dichloropropane	6.694	63	6261	5.655	ug/L #	86
39) cis-1,3-Dichloropropene	7.575	75	1604	0.952	ug/L #	77
44) trans-1,3-Dichloropropene	8.179	75	1095	0.662	ug/L #	79
46) Tetrachloroethene	8.555	164	167995	205.298	ug/L	98
60) 1,2,3-Trichloropropane	11.812	75	8348	5.479	ug/L #	65

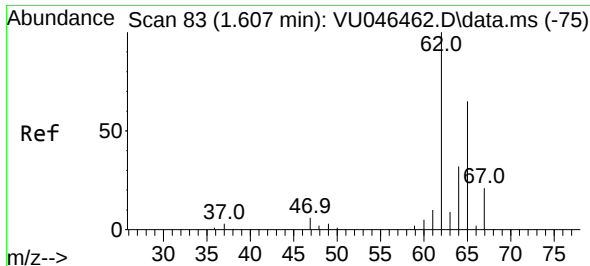
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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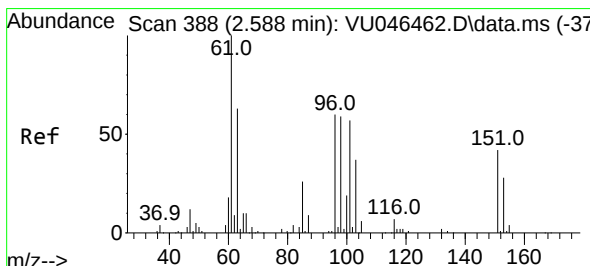
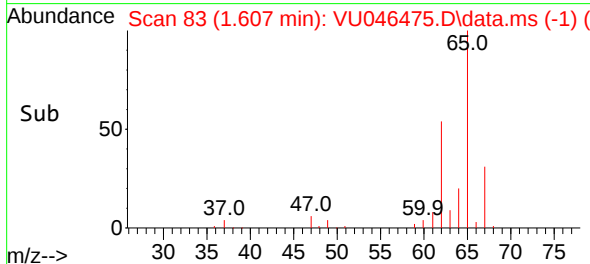
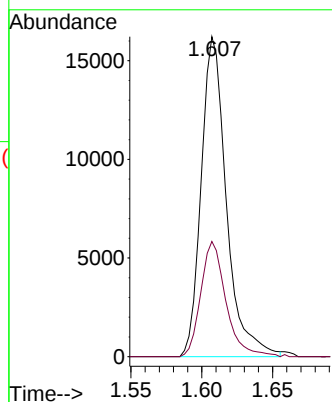
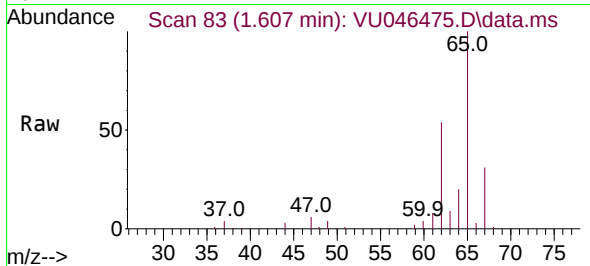




#5
 Vinyl chloride
 Concen: 14.685 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU046475.D
 Acq: 17 Dec 2021 16:26

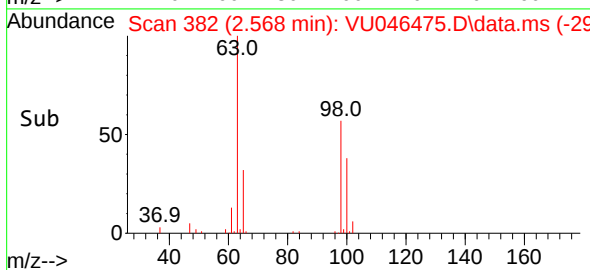
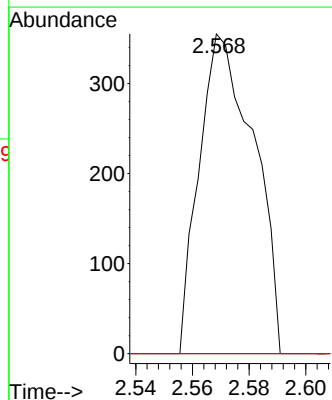
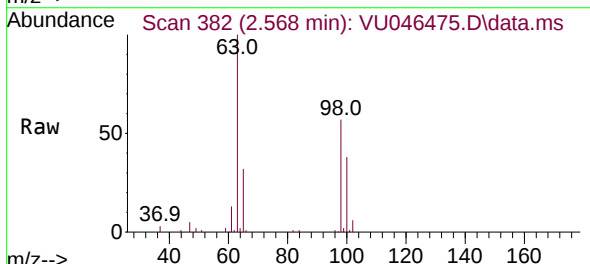
Instrument :
 MSVOA_U
 ClientSampleId :

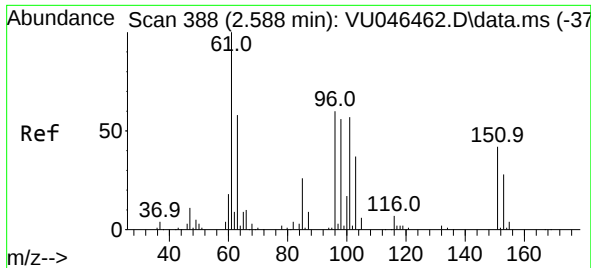
Tgt Ion: 62 Resp: 20055
 Ion Ratio Lower Upper
 62 100
 64 36.0 22.9 42.5



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.468 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.019 min
 Lab File: VU046475.D
 Acq: 17 Dec 2021 16:26

Tgt Ion: 101 Resp: 474
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#





#12

1,1-Dichloroethene

Concen: 2.107 ug/L

RT: 2.584 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU046475.D

Acq: 17 Dec 2021 16:26

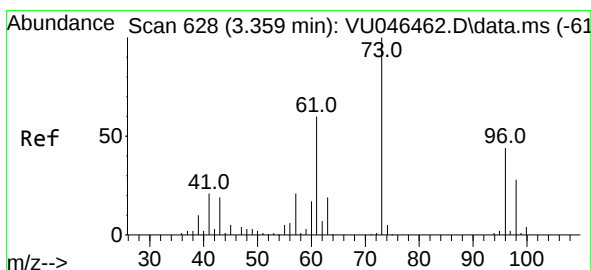
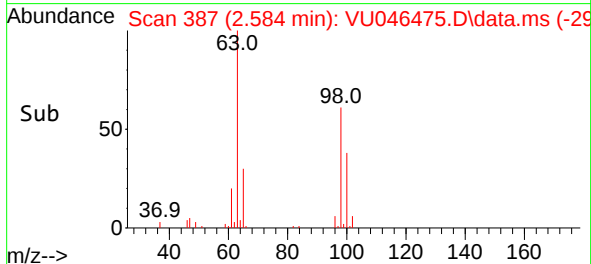
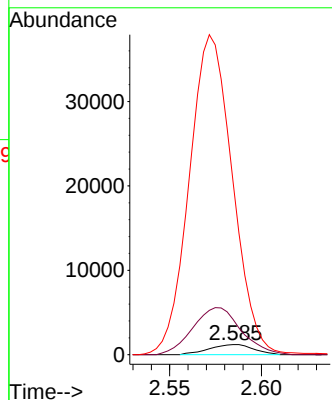
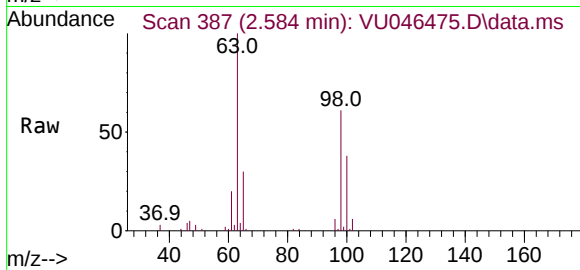
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp: 2028

Ion	Ratio	Lower	Upper
96	100		
61	349.9	118.6	220.2#
63	1713.3	93.0	172.8#



#17

trans-1,2-Dichloroethene

Concen: 2.973 ug/L

RT: 3.363 min Scan# 629

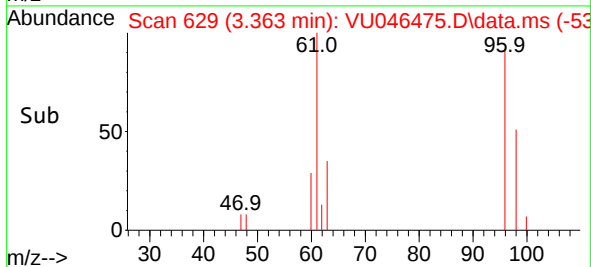
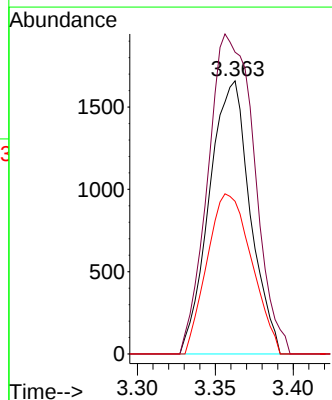
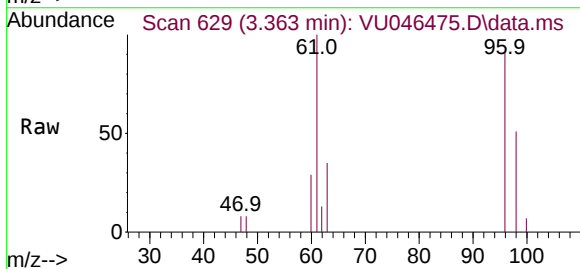
Delta R.T. 0.003 min

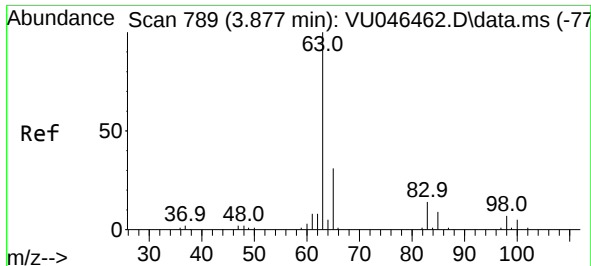
Lab File: VU046475.D

Acq: 17 Dec 2021 16:26

Tgt Ion: 96 Resp: 3028

Ion	Ratio	Lower	Upper
96	100		
61	110.5	94.6	175.6
98	55.9	44.0	81.8





#19

1,1-Dichloroethane

Concen: 0.530 ug/L

RT: 3.877 min Scan# 789

Delta R.T. 0.000 min

Lab File: VU046475.D

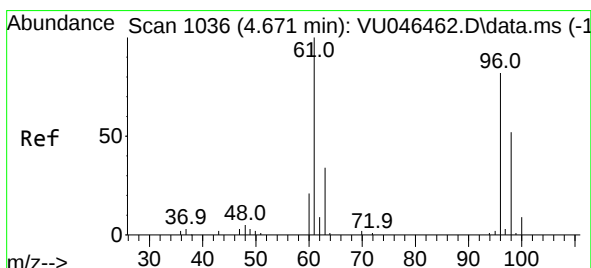
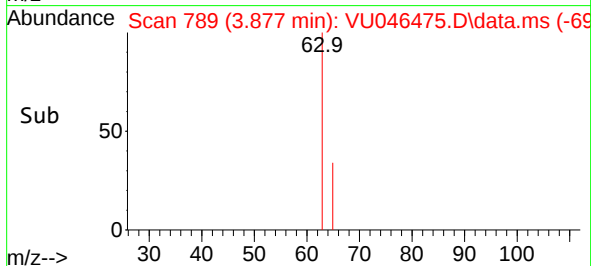
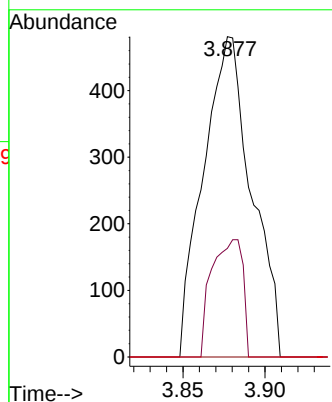
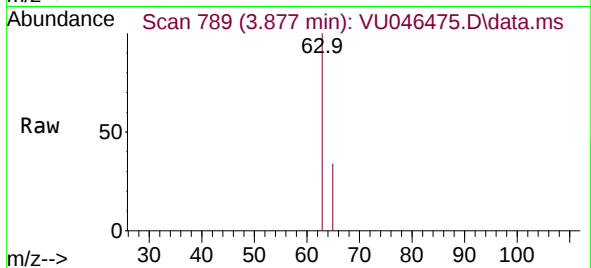
Acq: 17 Dec 2021 16:26

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 63	Resp: 982
Ion Ratio	Lower Upper
63	100
65	33.9 22.8 42.4
83	0.0 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 403.000 ug/L

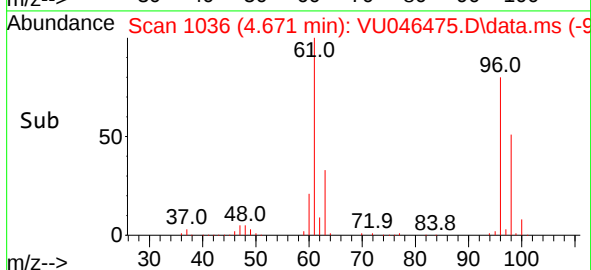
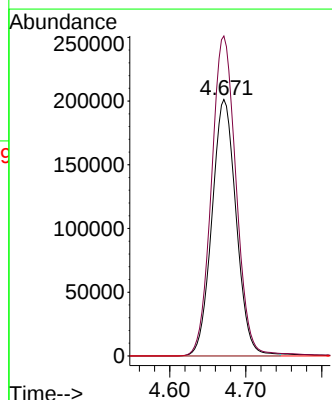
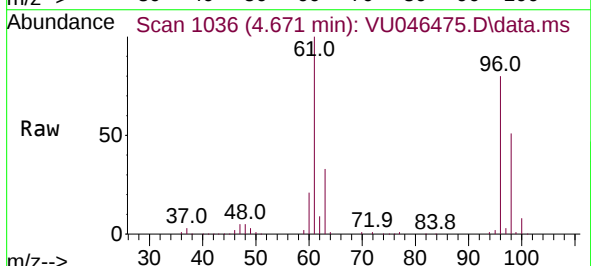
RT: 4.671 min Scan# 1036

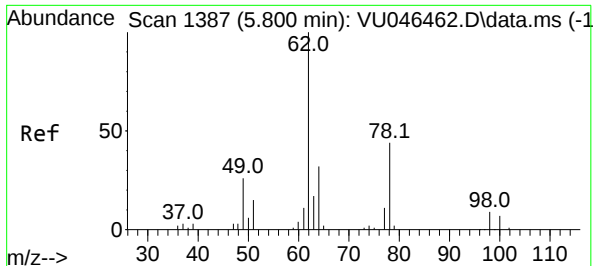
Delta R.T. 0.000 min

Lab File: VU046475.D

Acq: 17 Dec 2021 16:26

Tgt Ion: 96	Resp: 445337
Ion Ratio	Lower Upper
96	100
61	124.7 86.8 161.2
68	0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.631 ug/L

RT: 5.726 min Scan# 11

Delta R.T. -0.071 min

Lab File: VU046475.D

Acq: 17 Dec 2021 16:26

Instrument :

MSVOA_U

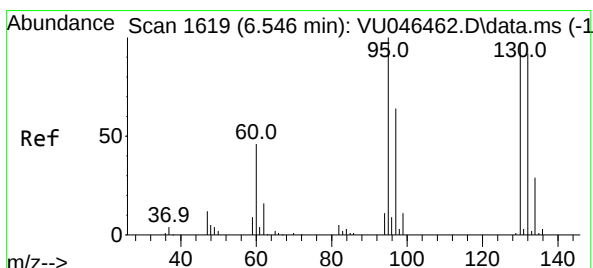
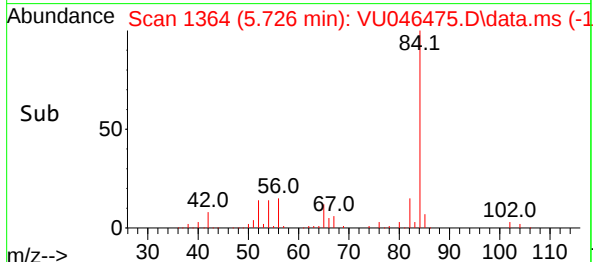
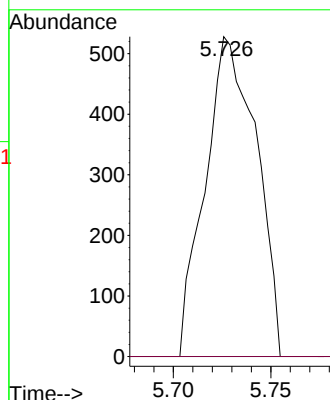
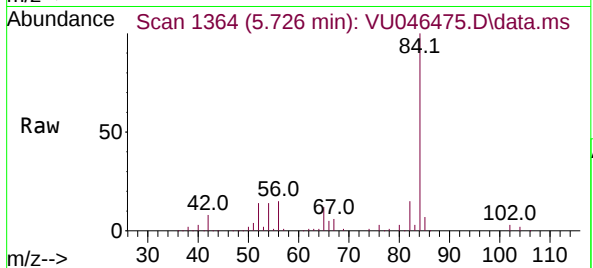
ClientSampleId :

Tgt Ion: 62 Resp: 963

Ion Ratio Lower Upper

62 100

98 0.0 7.9 11.9#



#34

Trichloroethene

Concen: 129.699 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VU046475.D

Acq: 17 Dec 2021 16:26

Tgt Ion: 95 Resp: 144422

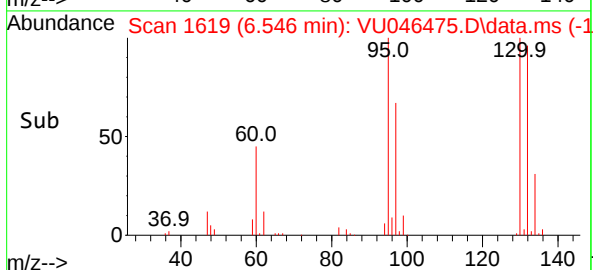
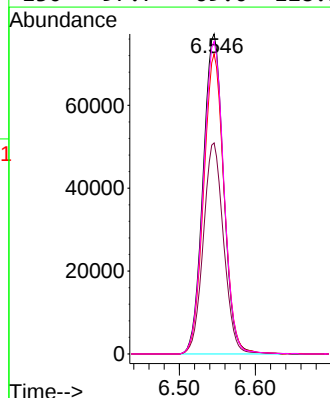
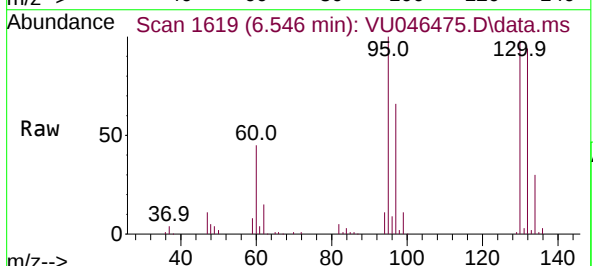
Ion Ratio Lower Upper

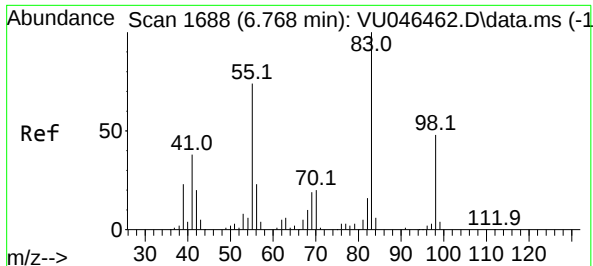
95 100

97 65.9 44.1 81.9

132 93.7 66.8 124.0

130 97.7 69.0 128.1

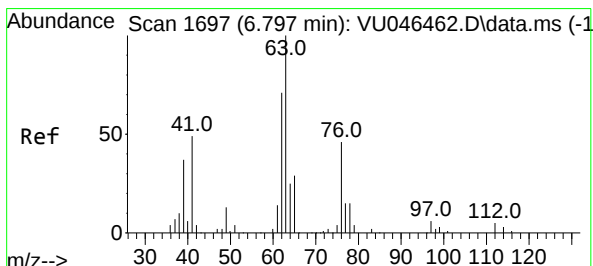
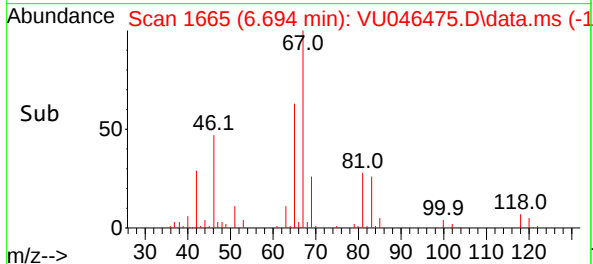
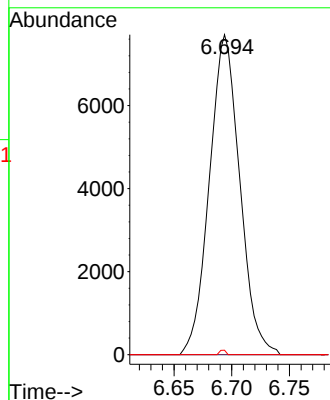
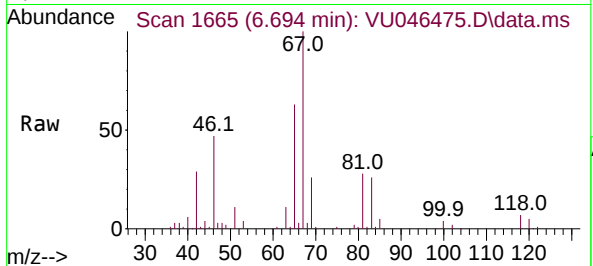




#35
Methylcyclohexane
Concen: 8.170 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.074 min
Lab File: VU046475.D
Acq: 17 Dec 2021 16:26

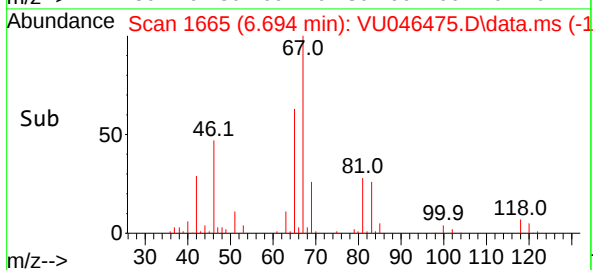
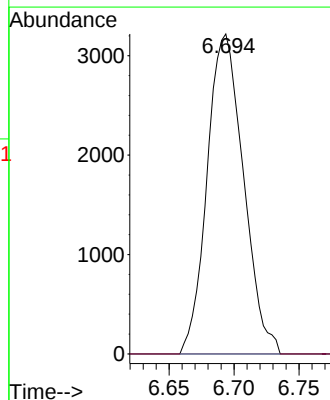
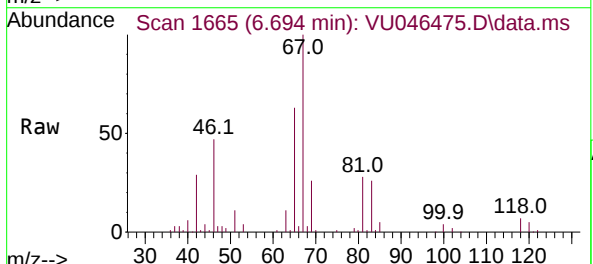
Instrument :
MSVOA_U
ClientSampleId :

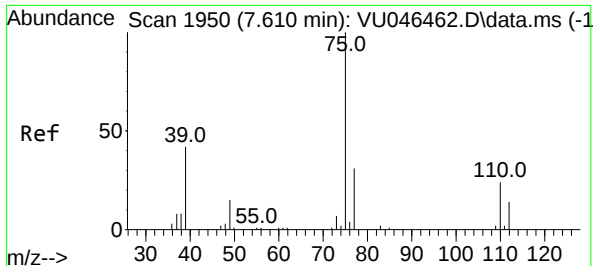
Tgt Ion	Ratio	Lower	Upper
83	100		
55	0.0	57.8	86.6#
98	0.3	38.4	57.6#



#37
1,2-Dichloropropane
Concen: 5.655 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.099 min
Lab File: VU046475.D
Acq: 17 Dec 2021 16:26

Tgt Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.8	5.6#





#39

cis-1,3-Dichloropropene

Concen: 0.952 ug/L

RT: 7.575 min Scan# 1950

Delta R.T. -0.035 min

Lab File: VU046475.D

Acq: 17 Dec 2021 16:26

Instrument :

MSVOA_U

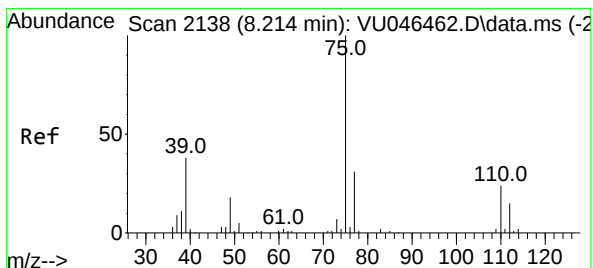
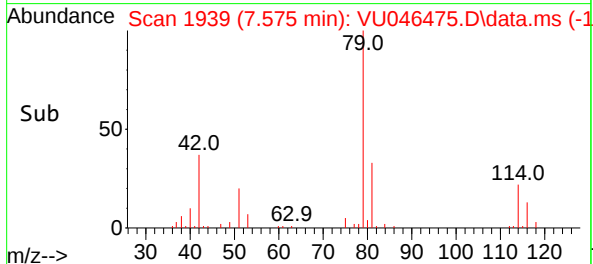
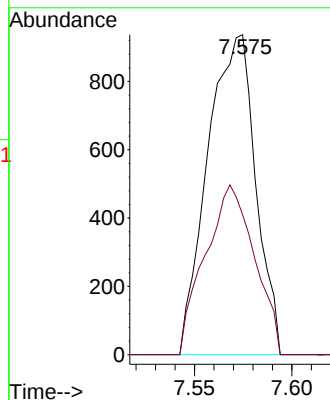
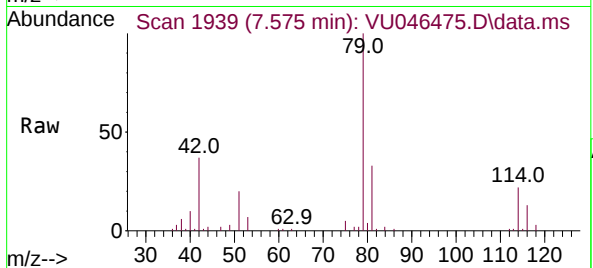
ClientSampleId :

Tgt Ion: 75 Resp: 1604

Ion Ratio Lower Upper

75 100

77 43.8 21.8 40.6#



#44

trans-1,3-Dichloropropene

Concen: 0.662 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.032 min

Lab File: VU046475.D

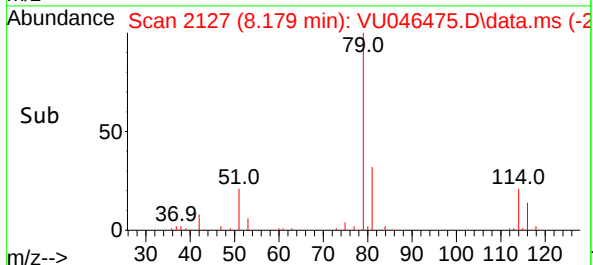
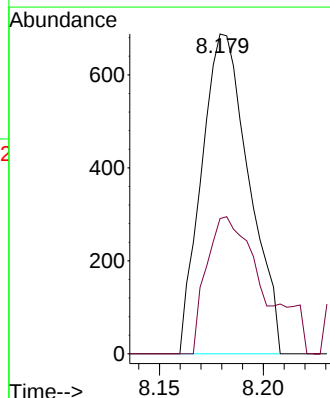
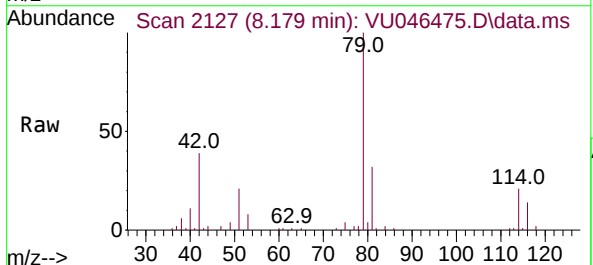
Acq: 17 Dec 2021 16:26

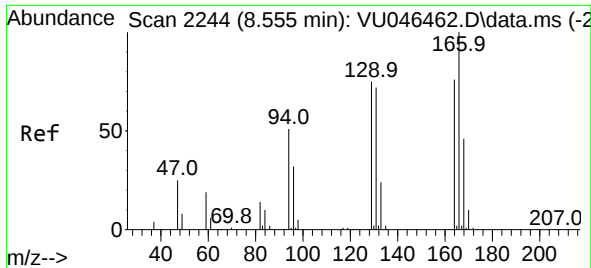
Tgt Ion: 75 Resp: 1095

Ion Ratio Lower Upper

75 100

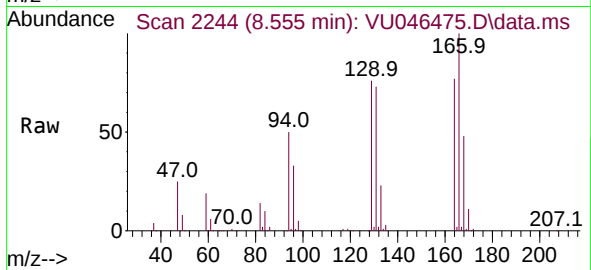
77 42.3 21.7 40.3#



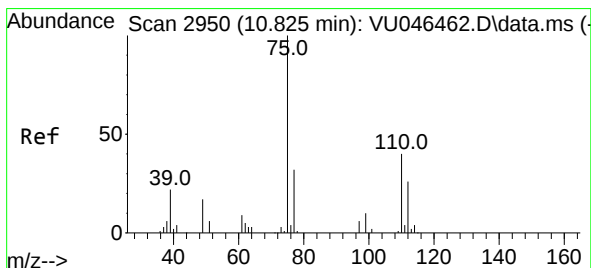
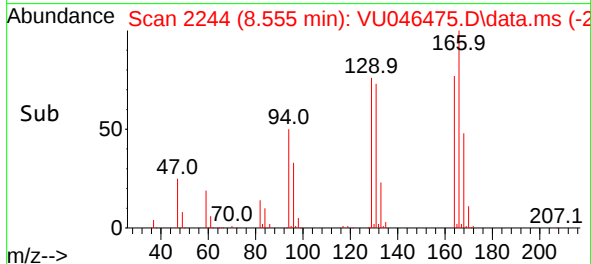
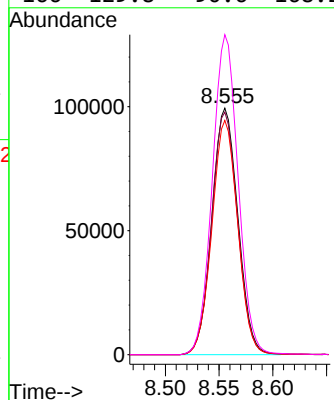


#46
Tetrachloroethene
Concen: 205.298 ug/L
RT: 8.555 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU046475.D
Acq: 17 Dec 2021 16:26

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:164 Resp: 167995
Ion Ratio Lower Upper
164 100
129 98.4 71.1 132.1
131 95.0 67.8 126.0
166 129.8 90.6 168.2



#60
1,2,3-Trichloropropane
Concen: 5.479 ug/L
RT: 11.812 min Scan# 3257
Delta R.T. 0.987 min
Lab File: VU046475.D
Acq: 17 Dec 2021 16:26

Tgt Ion: 75 Resp: 8348
Ion Ratio Lower Upper
75 100
77 33.8 26.4 39.6
110 2.1 32.4 48.6#

