

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111821\
 Data File : VU045867.D
 Acq On : 18 Nov 2021 14:43
 Operator : SY/MD
 Sample : M4664-10
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 00:53:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 19 00:50:55 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	97278	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	100266	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.813	152	47751	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	34824	4.518	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.400%
7) Chloroethane-d5	1.916	69	27358	4.876	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.600%
11) 1,1-Dichloroethene-d2	2.569	65	14218	4.398	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.000%
20) 2-Butanone-d5	4.642	46	101024	48.912	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.820%
24) Chloroform-d	5.067	84	49229	3.834	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.600%
26) 1,2-Dichloroethane-d4	5.707	65	33796	4.486	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.800%
32) Benzene-d6	5.732	84	118188	4.280	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.600%
36) 1,2-Dichloropropane-d6	6.694	67	38533	4.428	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.600%
41) Toluene-d8	7.899	98	101142	4.049	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.000%
43) trans-1,3-Dichloroprop...	8.182	79	14079	3.985	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.800%
46) 2-Hexanone-d5	8.636	63	65074	40.926	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.860%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	32777	4.458	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.200%
66) 1,2-Dichlorobenzene-d4	12.195	152	36926	4.504	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.000%

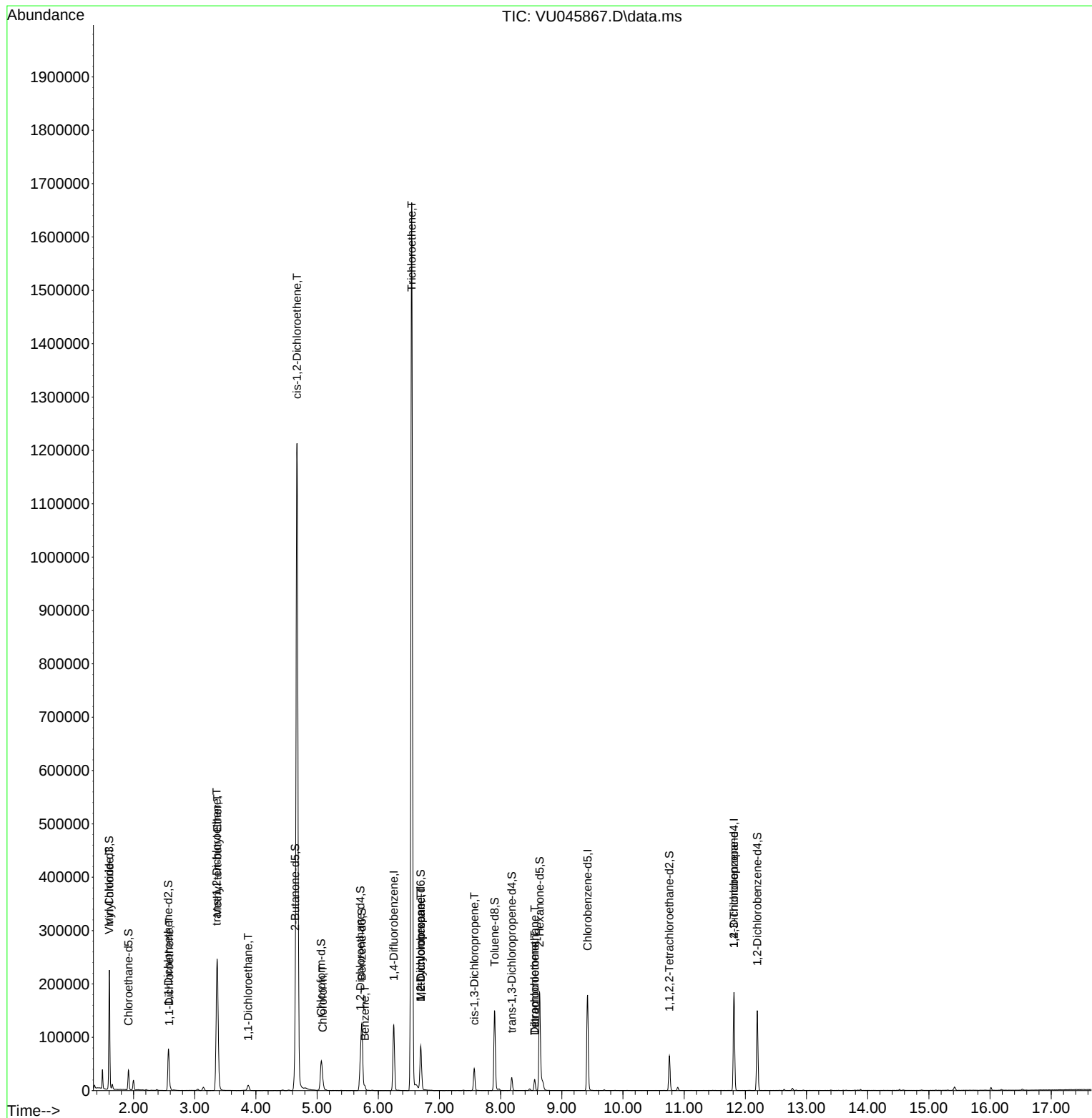
Target Compounds				Qvalue		
5) Vinyl chloride	1.604	62	86993	10.326	ug/L	98
12) 1,1-Dichloroethene	2.585	96	1959	0.325	ug/L #	1
17) Methyl tert-butyl Ether	3.369	73	240915	15.368	ug/L	99
18) trans-1,2-Dichloroethene	3.359	96	18121	2.807	ug/L	94
19) 1,1-Dichloroethane	3.874	63	11480	0.949	ug/L	99
22) cis-1,2-Dichloroethene	4.671	96	616524	88.091	ug/L	98
25) Chloroform	5.093	83	11037	0.841	ug/L	97
33) Benzene	5.781	78	8547	0.305	ug/L	100
34) Trichloroethene	6.546	95	563401	78.132	ug/L	98
35) Methylcyclohexane	6.694	83	9079	0.820	ug/L #	17
37) 1,2-Dichloropropane	6.694	63	4098	0.557	ug/L #	88
39) cis-1,3-Dichloropropene	7.572	75	1006	0.096	ug/L #	51
47) Tetrachloroethene	8.555	164	4538	0.899	ug/L	96
49) Dibromochloromethane	8.555	129	4381	0.704	ug/L #	10
61) 1,2,3-Trichloropropane	11.813	75	6080	1.227	ug/L #	67

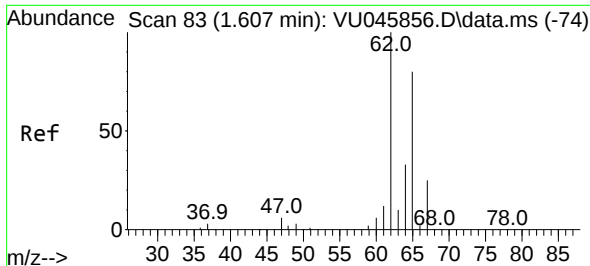
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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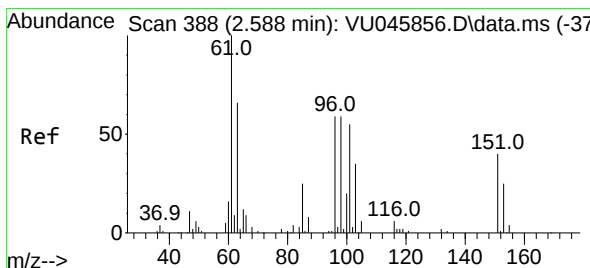
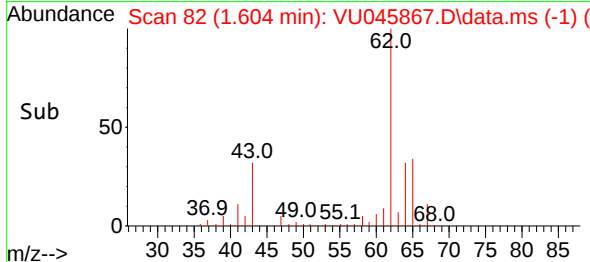
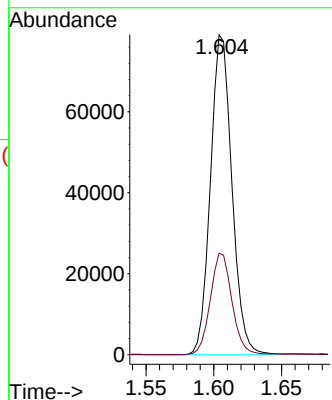
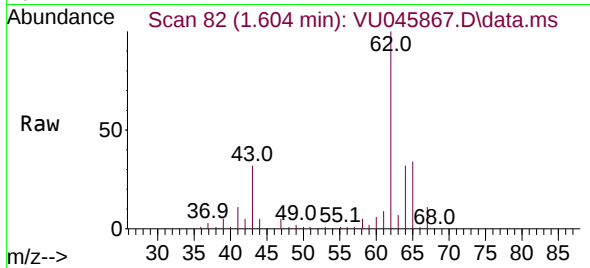




#5
 Vinyl chloride
 Concen: 10.326 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU045867.D
 Acq: 18 Nov 2021 14:43

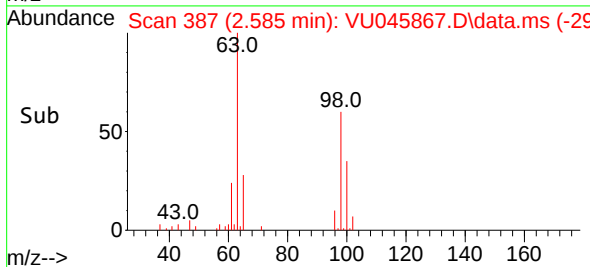
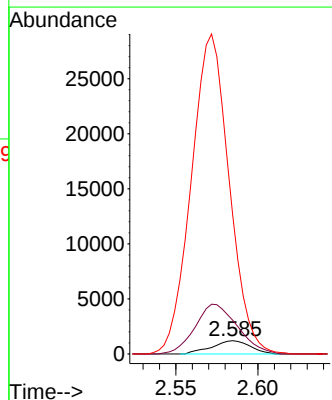
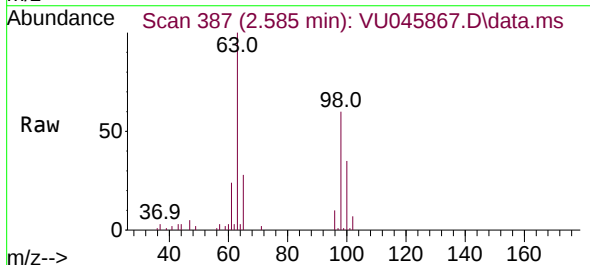
Instrument :
 MSVOA_U
 ClientSampleId :

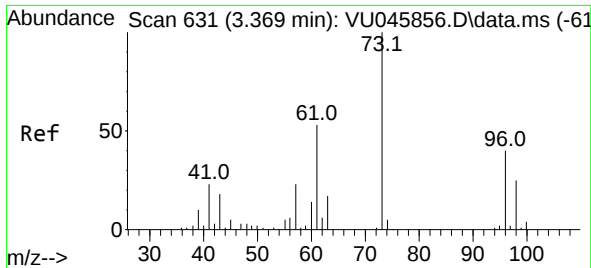
Tgt Ion: 62 Resp: 86993
 Ion Ratio Lower Upper
 62 100
 64 31.7 22.9 42.5



#12
 1,1-Dichloroethene
 Concen: 0.325 ug/L
 RT: 2.585 min Scan# 387
 Delta R.T. -0.003 min
 Lab File: VU045867.D
 Acq: 18 Nov 2021 14:43

Tgt Ion: 96 Resp: 1959
 Ion Ratio Lower Upper
 96 100
 61 254.9 124.7 231.5#
 63 1049.3 105.2 195.4#

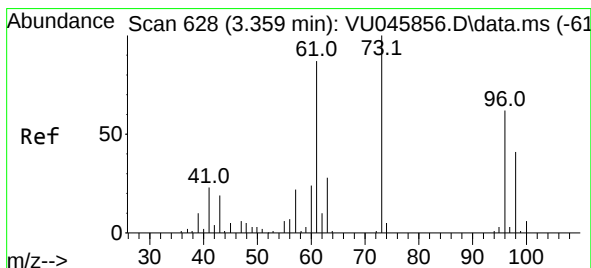
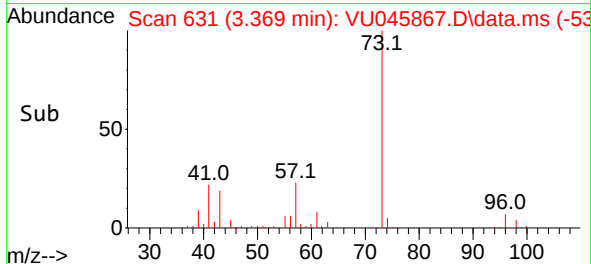
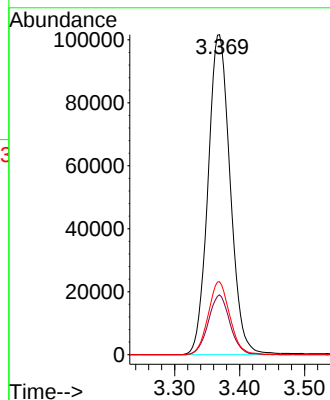
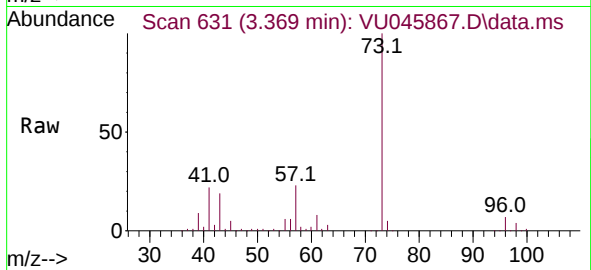




#17
Methyl tert-butyl Ether
Concen: 15.368 ug/L
RT: 3.369 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU045867.D
Acq: 18 Nov 2021 14:43

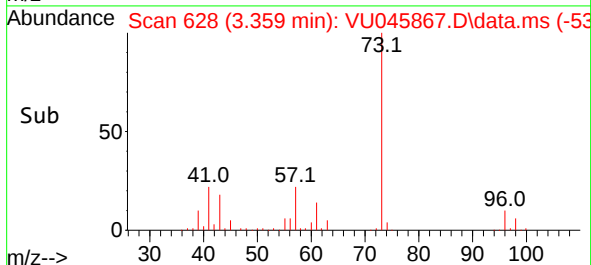
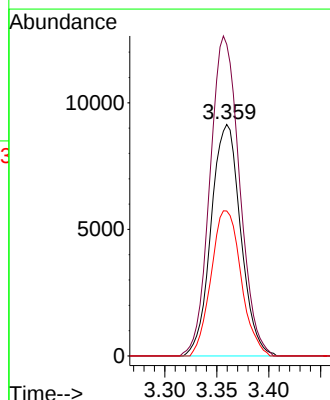
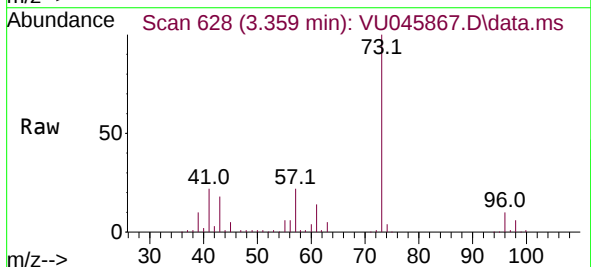
Instrument :
MSVOA_U
ClientSampleId :

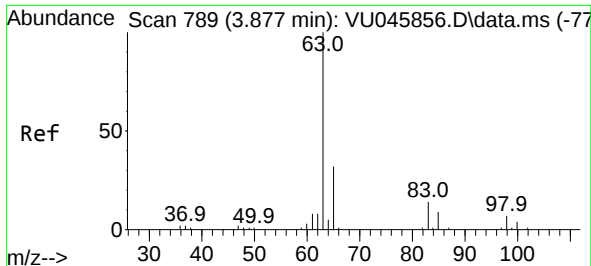
Tgt Ion: 73 Resp: 240915
Ion Ratio Lower Upper
73 100
43 18.2 14.8 22.2
57 22.3 17.4 26.0



#18
trans-1,2-Dichloroethene
Concen: 2.807 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU045867.D
Acq: 18 Nov 2021 14:43

Tgt Ion: 96 Resp: 18121
Ion Ratio Lower Upper
96 100
61 134.6 100.8 187.2
98 62.6 45.1 83.7





#19

1,1-Dichloroethane

Concen: 0.949 ug/L

RT: 3.874 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

Instrument :

MSVOA_U

ClientSampleId :

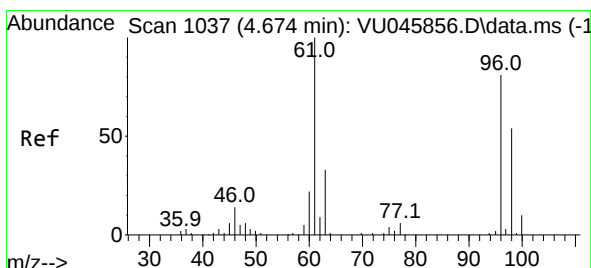
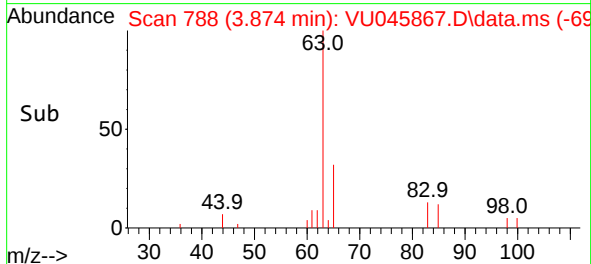
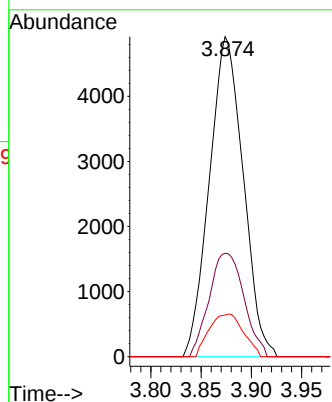
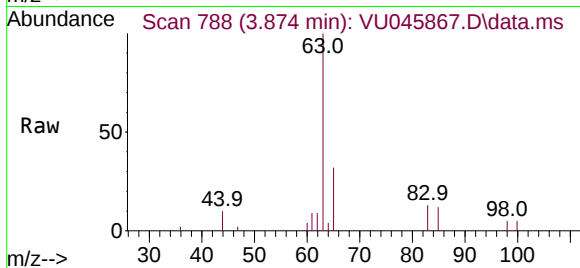
Tgt Ion: 63 Resp: 11480

Ion Ratio Lower Upper

63 100

65 32.3 22.3 41.5

83 13.0 9.6 17.8



#22

cis-1,2-Dichloroethene

Concen: 88.091 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.003 min

Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

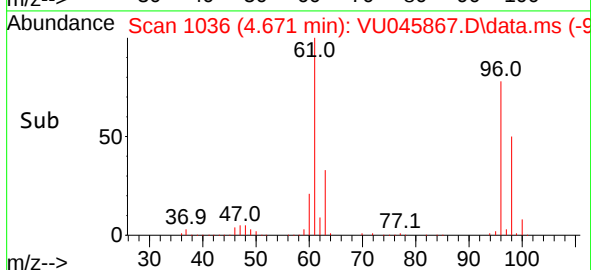
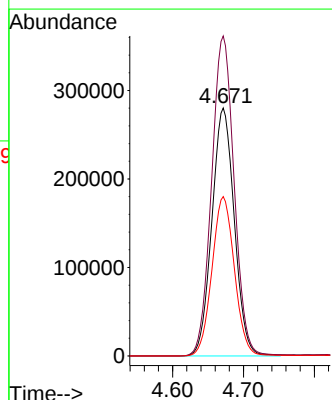
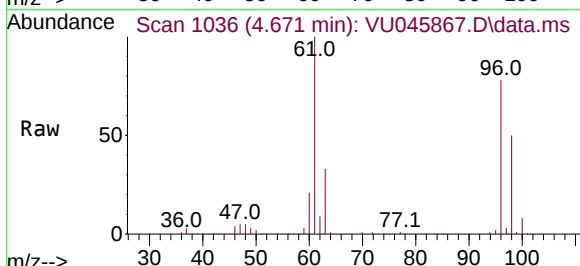
Tgt Ion: 96 Resp: 616524

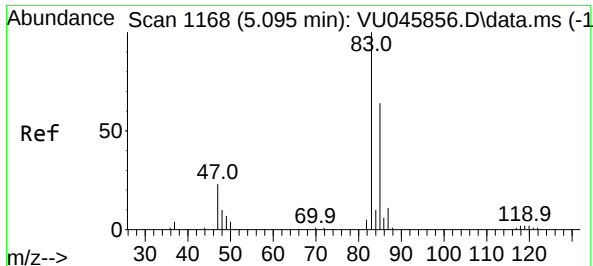
Ion Ratio Lower Upper

96 100

61 129.0 88.5 164.3

98 64.2 44.4 82.5





#25

Chloroform

Concen: 0.841 ug/L

RT: 5.093 min Scan# 1168

Delta R.T. -0.003 min

Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

Instrument :

MSVOA_U

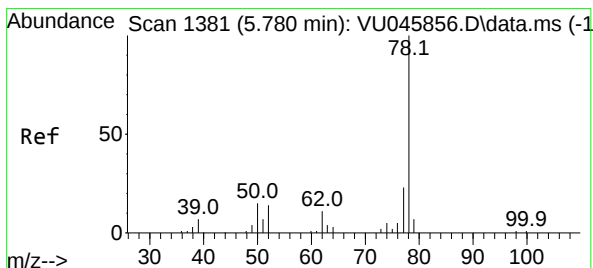
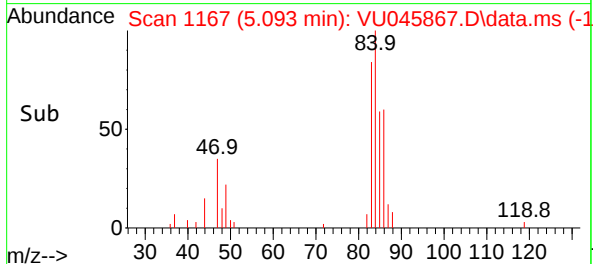
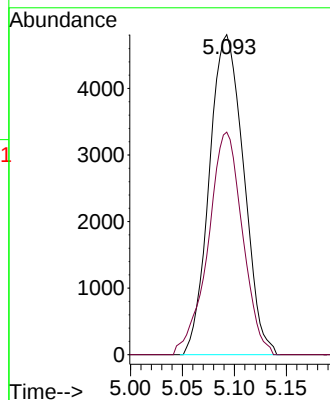
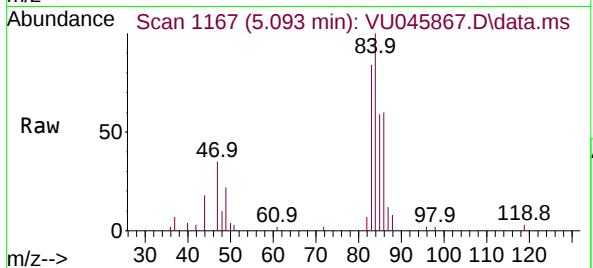
ClientSampleId :

Tgt Ion: 83 Resp: 11037

Ion Ratio Lower Upper

83 100

85 69.5 46.9 87.1



#33

Benzene

Concen: 0.305 ug/L

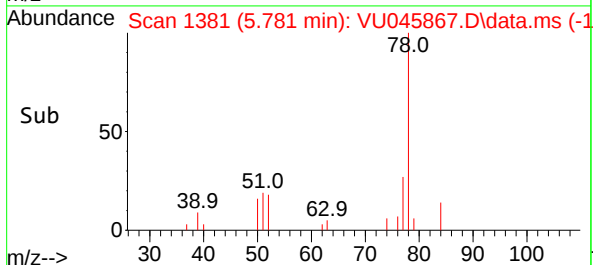
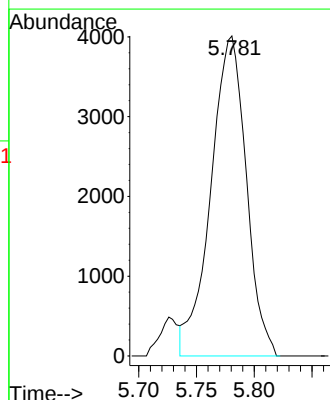
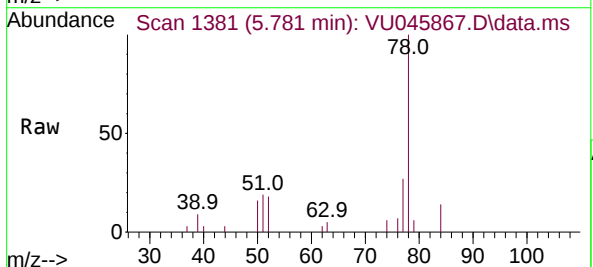
RT: 5.781 min Scan# 1381

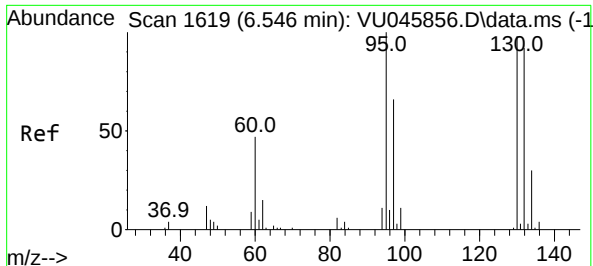
Delta R.T. 0.000 min

Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

Tgt Ion: 78 Resp: 8547





#34

Trichloroethene

Concen: 78.132 ug/L

RT: 6.546 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 563401

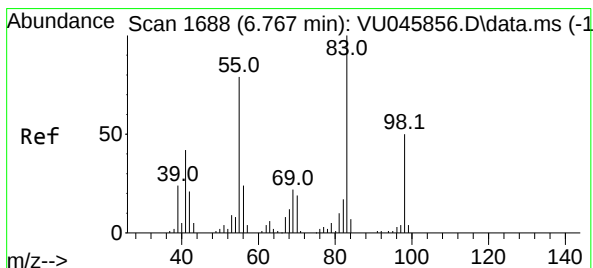
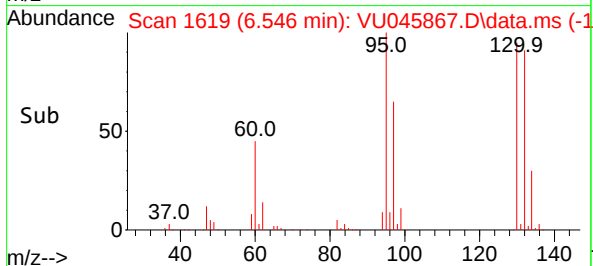
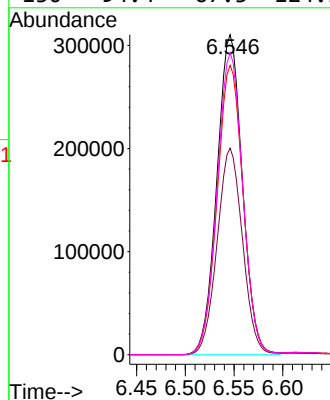
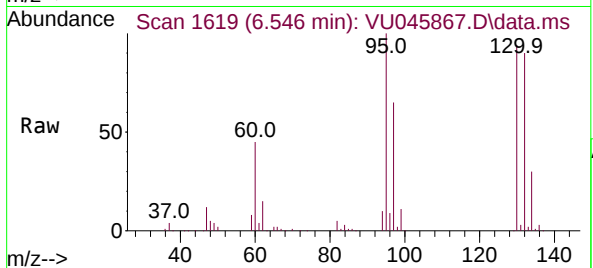
Ion Ratio Lower Upper

95 100

97 64.6 46.5 86.5

132 90.4 65.1 120.9

130 94.4 67.3 124.9



#35

Methylcyclohexane

Concen: 0.820 ug/L

RT: 6.694 min Scan# 1665

Delta R.T. -0.074 min

Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

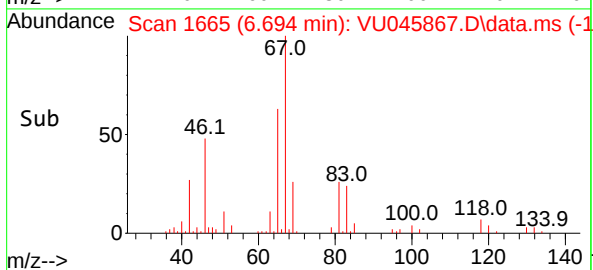
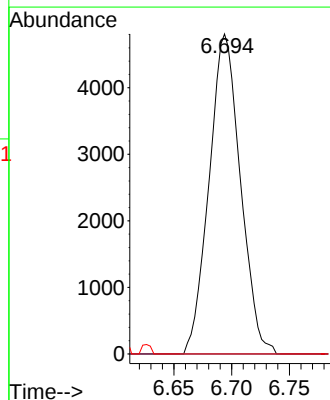
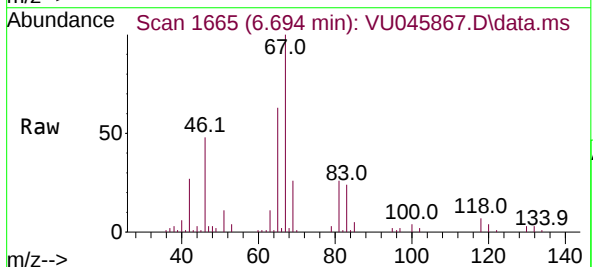
Tgt Ion: 83 Resp: 9079

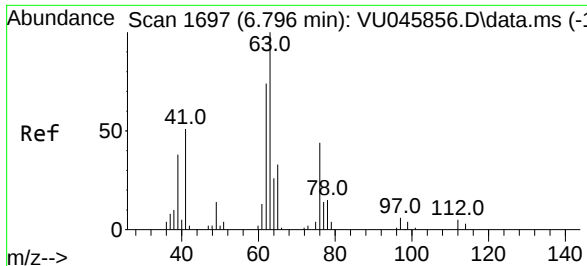
Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

98 0.0 39.0 58.6#





#37

1,2-Dichloropropane

Concen: 0.557 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.103 min

Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

Instrument :

MSVOA_U

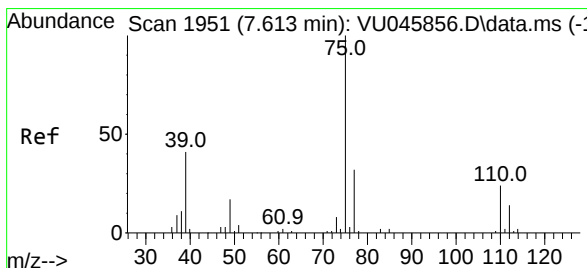
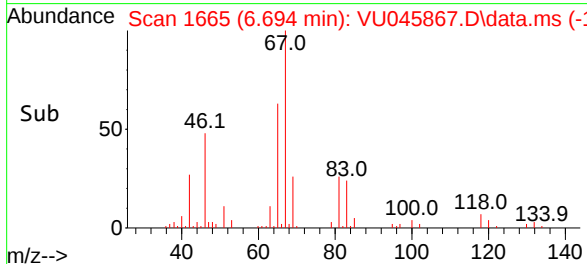
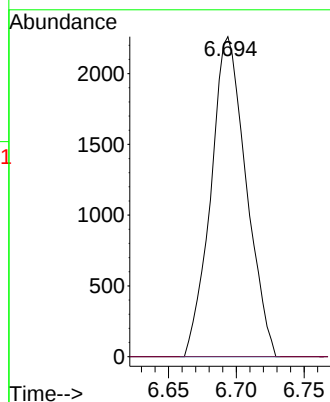
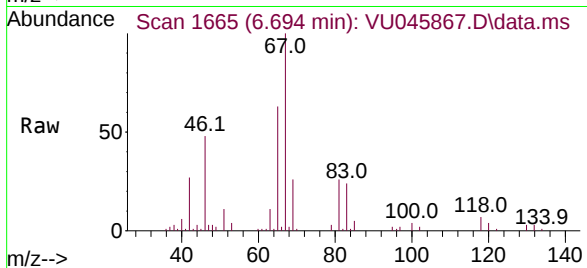
ClientSampleId :

Tgt Ion: 63 Resp: 4098

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 7.572 min Scan# 1938

Delta R.T. -0.042 min

Lab File: VU045867.D

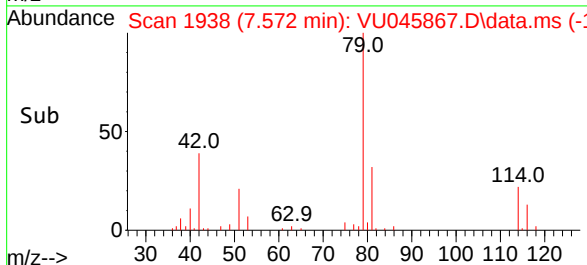
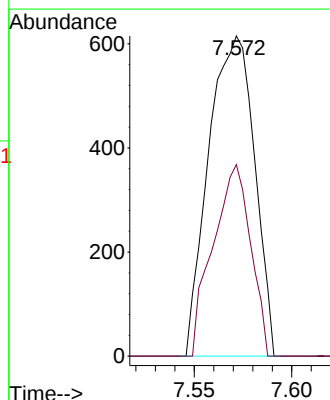
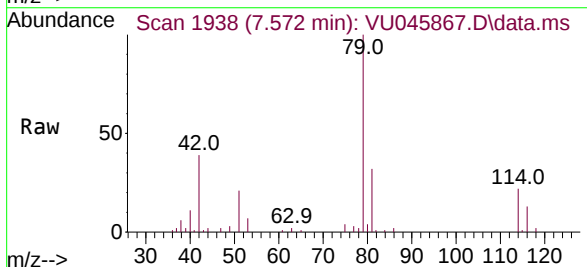
Acq: 18 Nov 2021 14:43

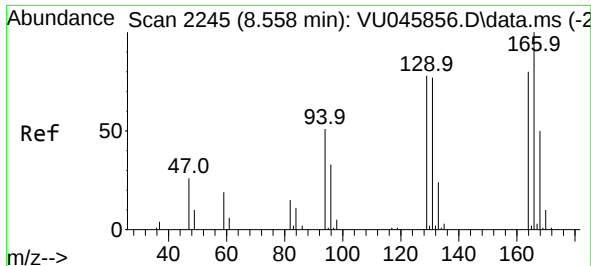
Tgt Ion: 75 Resp: 1006

Ion Ratio Lower Upper

75 100

77 59.8 22.5 41.9#





#47

Tetrachloroethene

Concen: 0.899 ug/L

RT: 8.555 min Scan# 2244

Delta R.T. -0.003 min

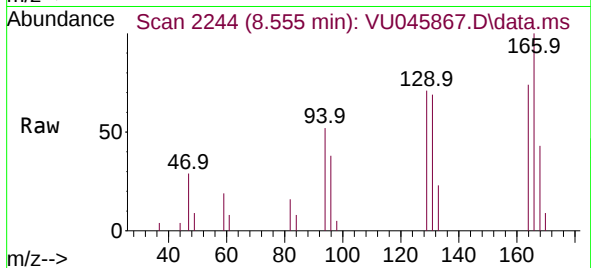
Lab File: VU045867.D

Acq: 18 Nov 2021 14:43

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 4538

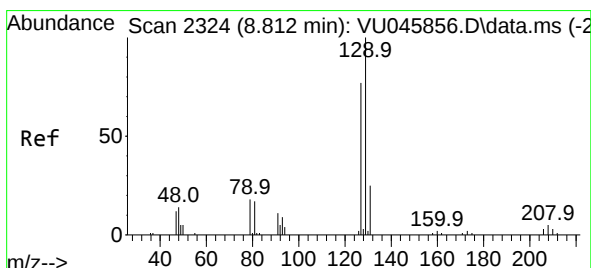
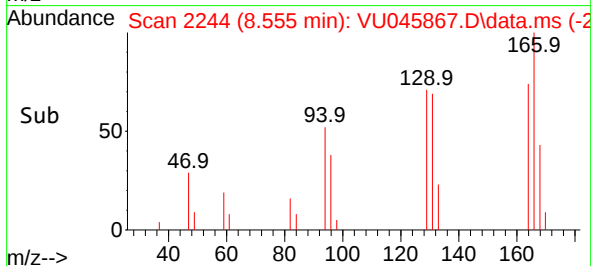
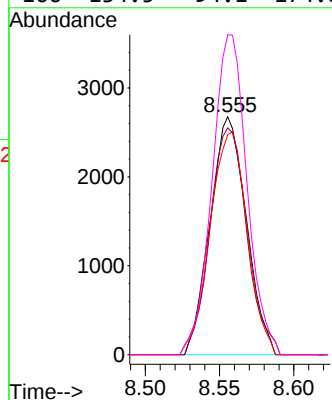
Ion Ratio Lower Upper

164 100

129 95.4 71.8 133.4

131 92.5 68.5 127.3

166 134.5 94.1 174.8



#49

Dibromochloromethane

Concen: 0.704 ug/L

RT: 8.555 min Scan# 2244

Delta R.T. -0.257 min

Lab File: VU045867.D

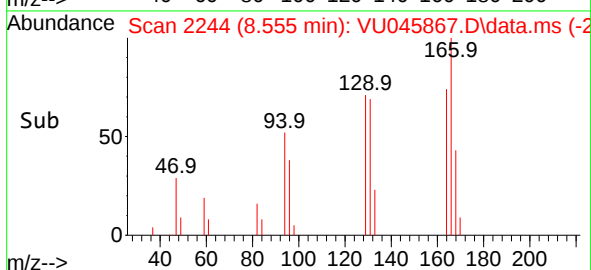
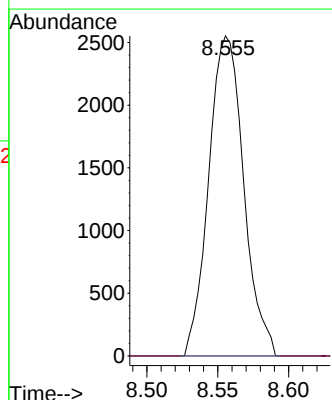
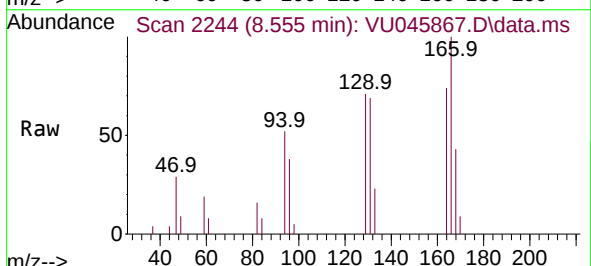
Acq: 18 Nov 2021 14:43

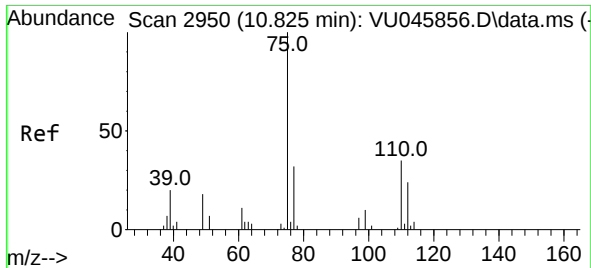
Tgt Ion:129 Resp: 4381

Ion Ratio Lower Upper

129 100

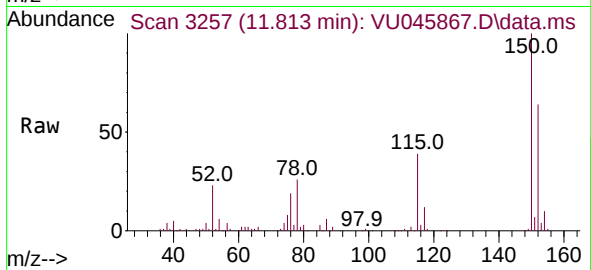
127 0.0 55.4 102.8#





#61
 1,2,3-Trichloropropane
 Concen: 1.227 ug/L
 RT: 11.813 min Scan# 31
 Delta R.T. 0.987 min
 Lab File: VU045867.D
 Acq: 18 Nov 2021 14:43

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 75 Resp: 6080
 Ion Ratio Lower Upper
 75 100
 110 1.6 29.9 44.9#
 77 33.1 25.5 38.3

