

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100421\
 Data File : VU045101.D
 Acq On : 04 Oct 2021 17:08
 Operator : SY/MD
 Sample : M3996-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F4A27

Quant Time: Oct 05 02:46:53 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 05 02:41:56 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	245497	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	233155	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	110497	50.000	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.601	65	91672	34.111	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	68.220%
7) Chloroethane-d5	1.906	69	85530	40.162	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.320%
11) 1,1-Dichloroethene-d2	2.568	63	133860	29.660	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	59.320%#
21) 2-Butanone-d5	4.623	46	230105	108.303	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.300%
24) Chloroform-d	5.067	84	193220	45.522	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.040%
26) 1,2-Dichloroethane-d4	5.706	65	137862	47.950	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.900%
32) Benzene-d6	5.732	84	380121	46.984	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.960%
36) 1,2-Dichloropropane-d6	6.694	67	127622	48.378	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.760%
41) Toluene-d8	7.903	98	331147	47.429	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.860%
43) trans-1,3-Dichloroprop...	8.182	79	57426	48.937	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.880%
47) 2-Hexanone-d5	8.636	63	165099	112.934	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.930%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	203214	49.469	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.940%
66) 1,2-Dichlorobenzene-d4	12.195	152	124674	51.846	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.700%

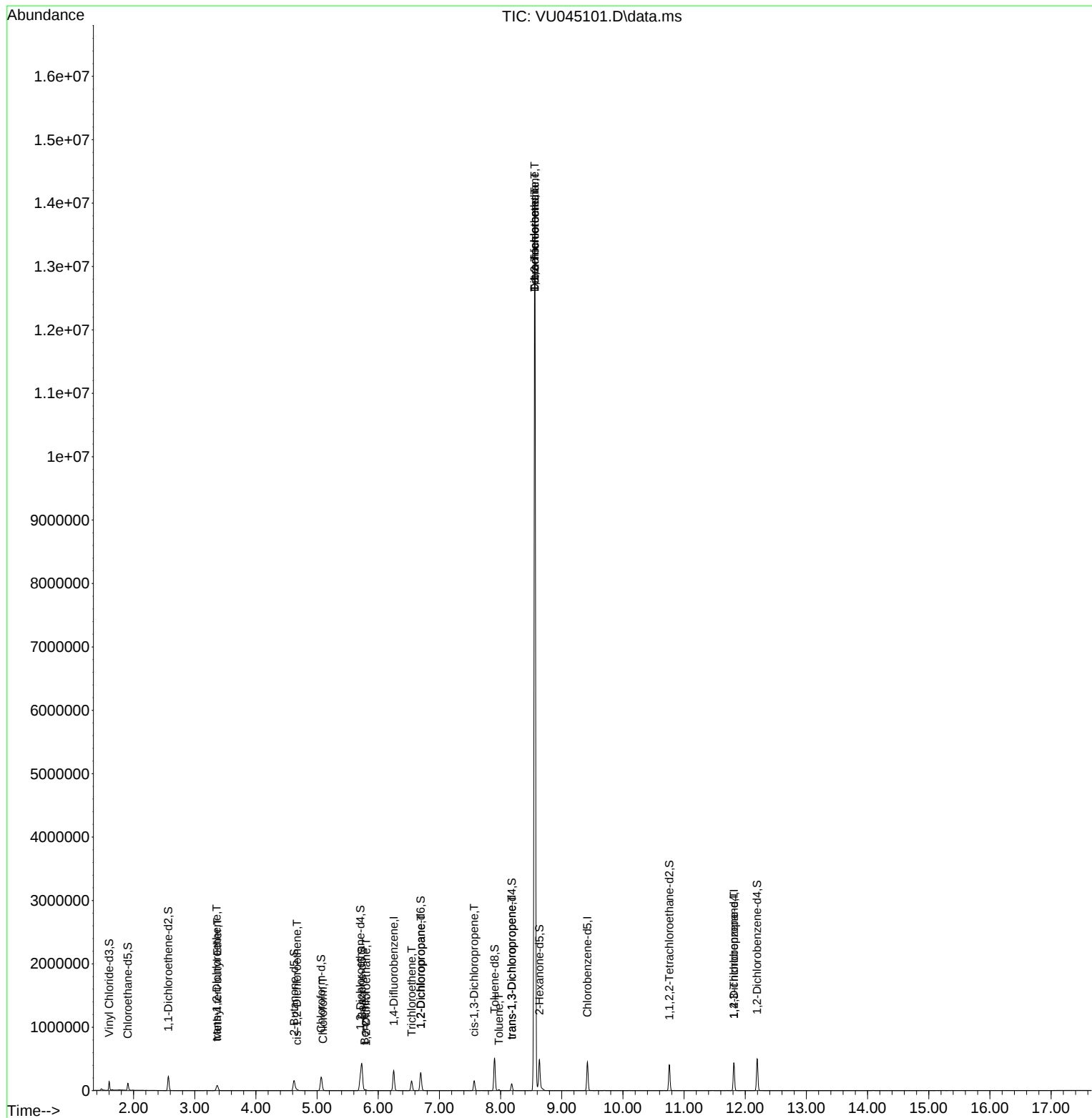
Target Compounds

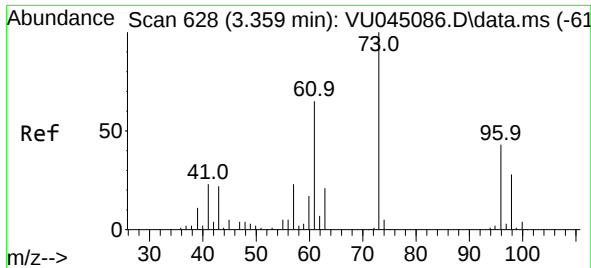
						Qvalue
17) trans-1,2-Dichloroethene	3.359	96	3731	1.863	ug/L	87
18) Methyl tert-butyl Ether	3.369	73	81700	12.372	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	6491	2.941	ug/L	95
25) Chloroform	5.096	83	2675	0.646	ug/L	96
27) 1,2-Dichloroethane	5.800	62	6223	1.796	ug/L #	93
33) Benzene	5.777	78	9114	1.054	ug/L	100
34) Trichloroethene	6.546	95	50681	24.400	ug/L	98
37) 1,2-Dichloropropane	6.697	63	15148	6.434	ug/L #	88
39) cis-1,3-Dichloropropene	7.568	75	3936	1.168	ug/L #	81
42) Toluene	7.973	91	10223	1.163	ug/L	95
44) trans-1,3-Dichloropropene	8.182	75	2640	0.824	ug/L #	74
45) 1,1,2-Trichloroethane	8.558	97	27324	12.806	ug/L #	1
46) Tetrachloroethene	8.558	164	2882338	1941.471	ug/L	97
49) Dibromochloromethane	8.558	129	2839866	1345.730	ug/L #	11
60) 1,2,3-Trichloropropane	11.816	75	14611	4.781	ug/L #	68

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

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Quant Title : VOC Analysis
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Response via : Initial Calibration

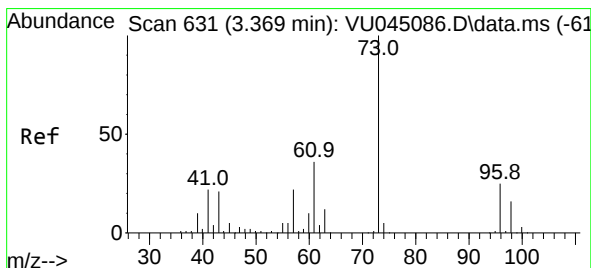
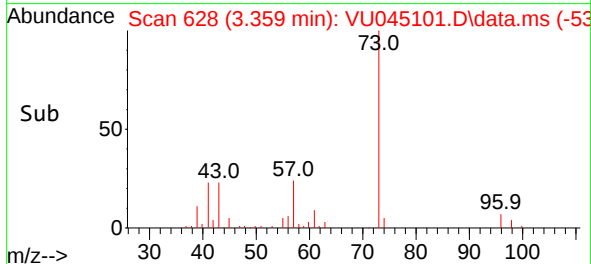
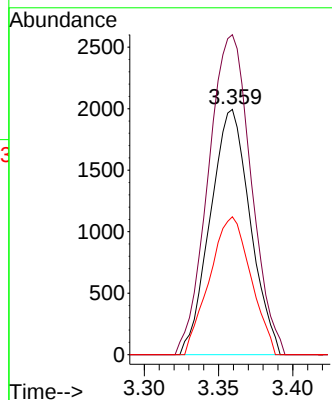
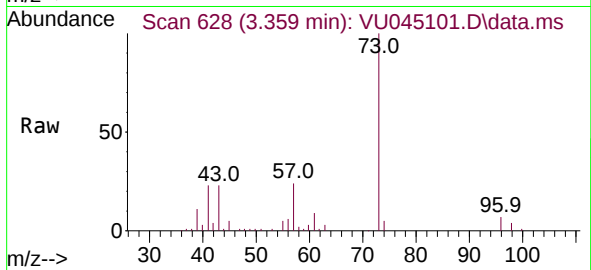




#17
trans-1,2-Dichloroethene
Concen: 1.863 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

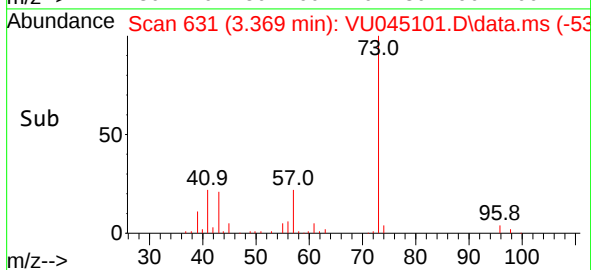
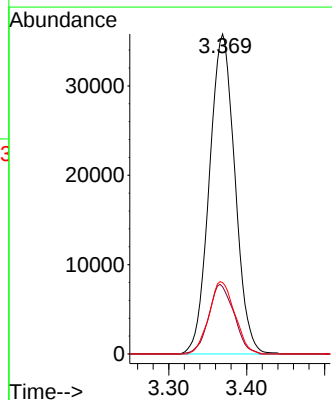
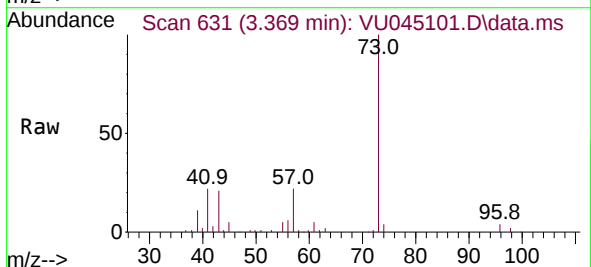
Instrument :
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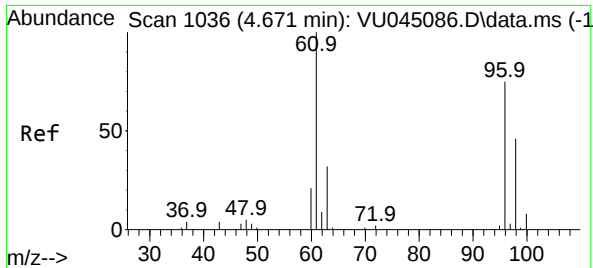
Tgt Ion: 96 Resp: 3731
Ion Ratio Lower Upper
96 100
61 130.4 105.1 195.3
98 56.2 43.0 79.8



#18
Methyl tert-butyl Ether
Concen: 12.372 ug/L
RT: 3.369 min Scan# 631
Delta R.T. 0.000 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

Tgt Ion: 73 Resp: 81700
Ion Ratio Lower Upper
73 100
43 21.6 17.3 25.9
57 22.8 18.7 28.1

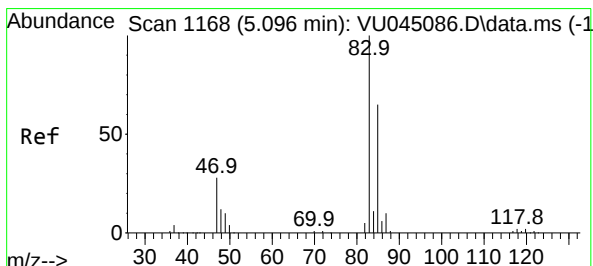
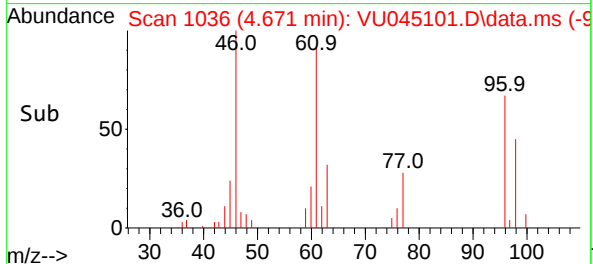
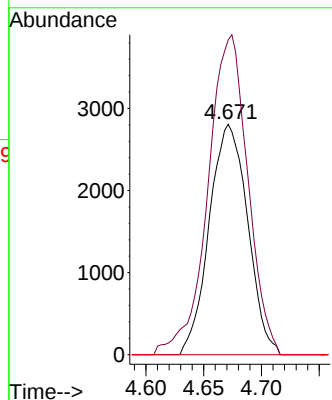
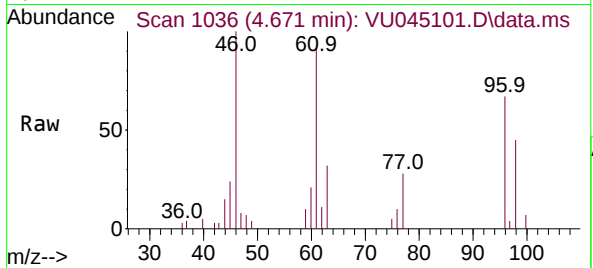




#20
cis-1,2-Dichloroethene
Concen: 2.941 ug/L
RT: 4.671 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

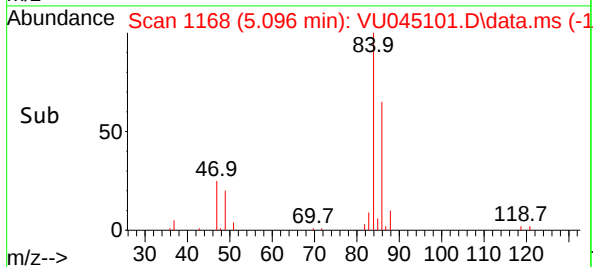
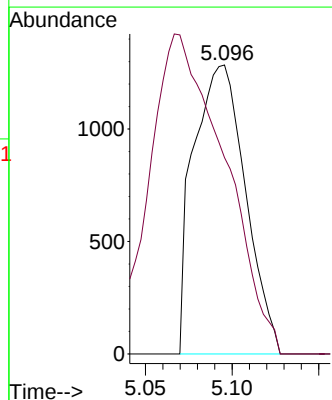
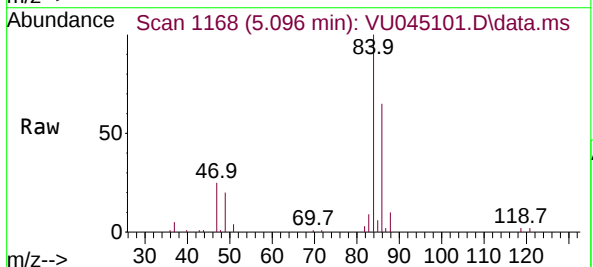
Instrument :
MSVOA_U
ClientSampled :
F4A27

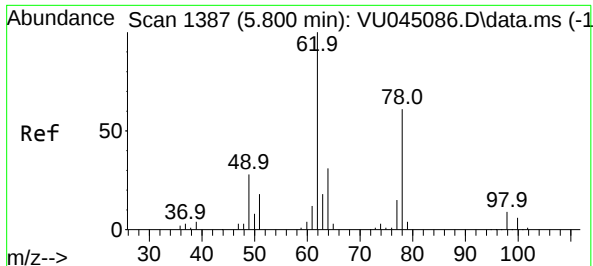
Tgt Ion: 96 Resp: 6491
Ion Ratio Lower Upper
96 100
61 136.6 100.2 186.0
68 0.0 0.0 0.0



#25
Chloroform
Concen: 0.646 ug/L
RT: 5.096 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

Tgt Ion: 83 Resp: 2675
Ion Ratio Lower Upper
83 100
85 67.9 45.6 84.6





#27

1,2-Dichloroethane

Concen: 1.796 ug/L

RT: 5.800 min Scan# 1387

Delta R.T. 0.000 min

Lab File: VU045101.D

Acq: 04 Oct 2021 17:08

Tgt Ion: 62 Resp: 6223

Ion Ratio Lower Upper

62 100

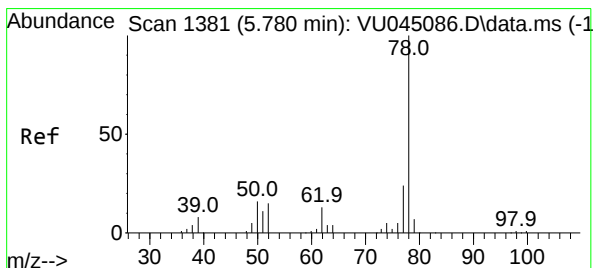
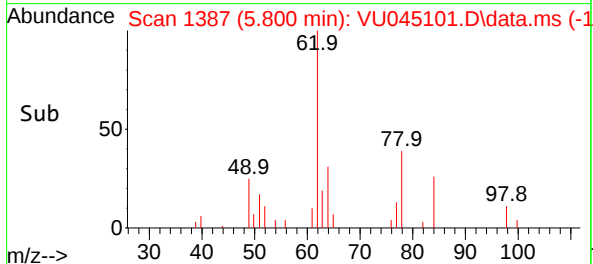
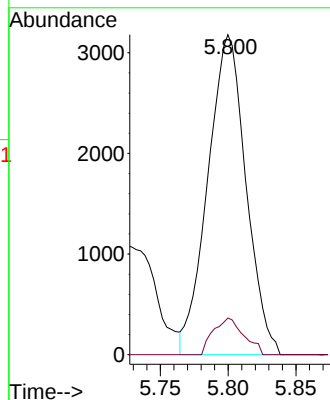
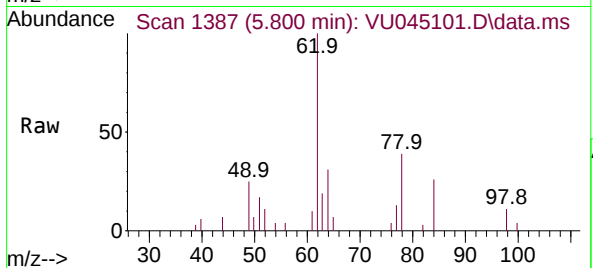
98 11.5 7.1 10.7#

Instrument :

MSVOA_U

ClientSampleId :

F4A27



#33

Benzene

Concen: 1.054 ug/L

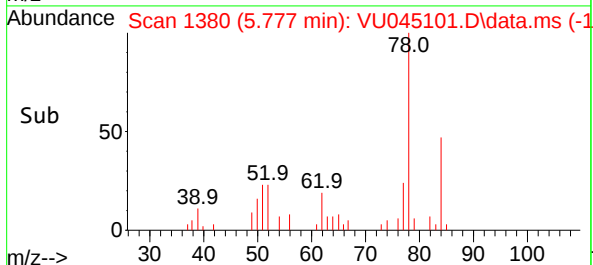
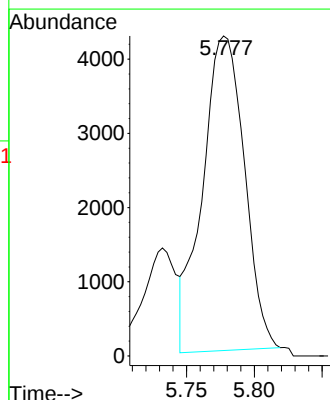
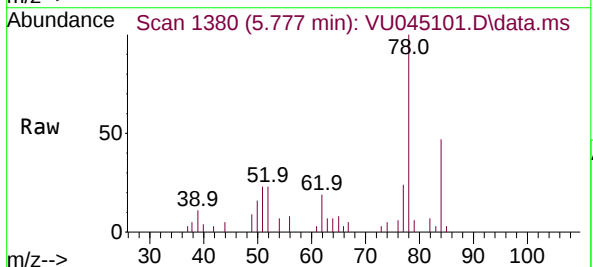
RT: 5.777 min Scan# 1380

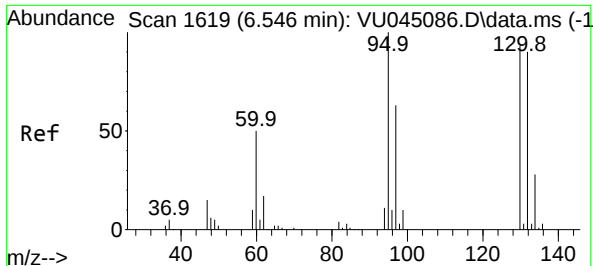
Delta R.T. -0.003 min

Lab File: VU045101.D

Acq: 04 Oct 2021 17:08

Tgt Ion: 78 Resp: 9114

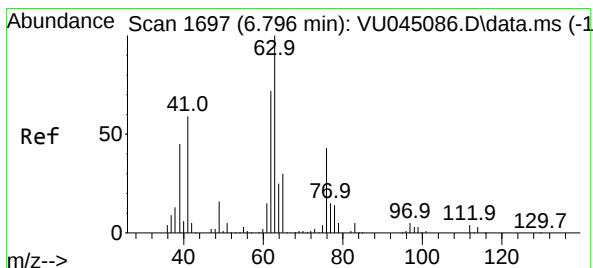
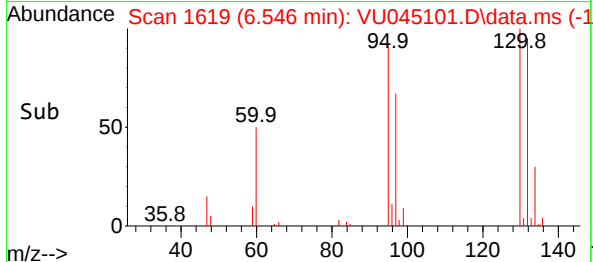
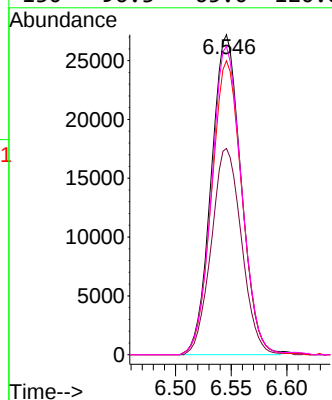
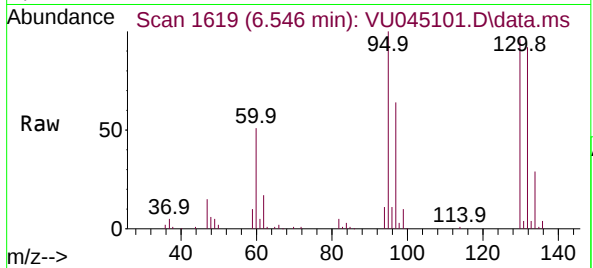




#34
Trichloroethene
Concen: 24.400 ug/L
RT: 6.546 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

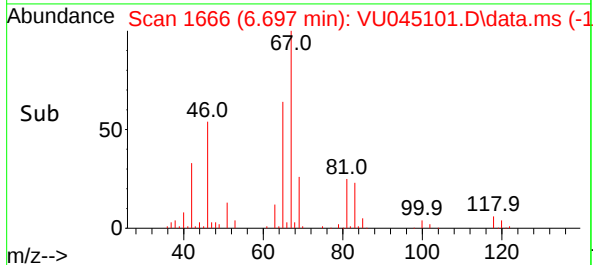
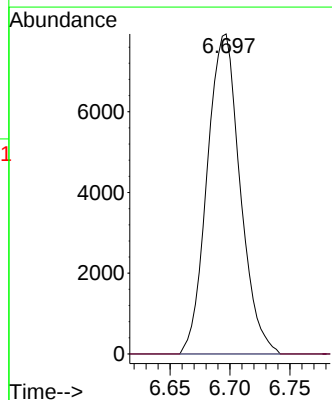
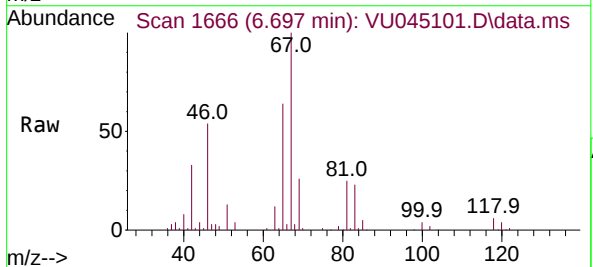
Instrument :
MSVOA_U
ClientSampled :
F4A27

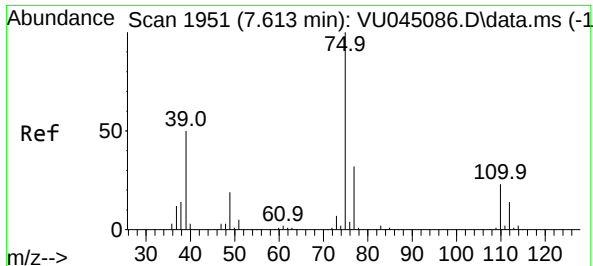
Tgt Ion: 95 Resp: 50681
Ion Ratio Lower Upper
95 100
97 64.5 44.4 82.4
132 91.9 62.9 116.9
130 96.3 65.0 120.8



#37
1,2-Dichloropropane
Concen: 6.434 ug/L
RT: 6.697 min Scan# 1666
Delta R.T. -0.100 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

Tgt Ion: 63 Resp: 15148
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#



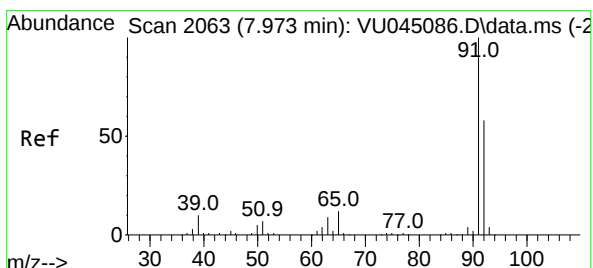
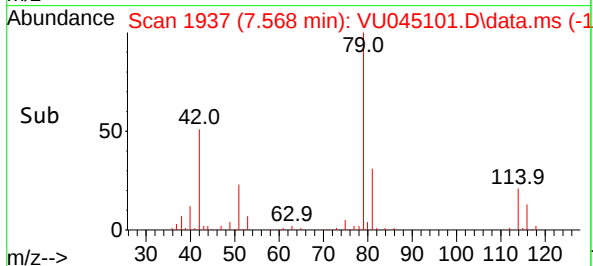
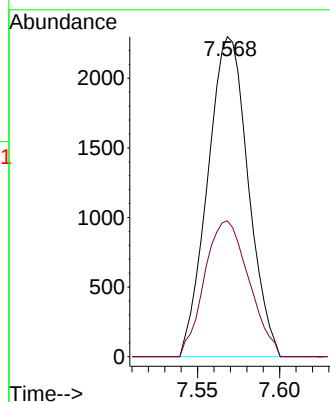
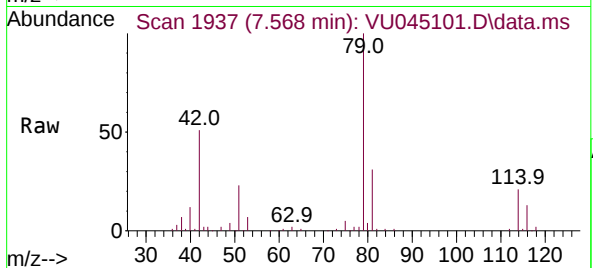


#39

cis-1,3-Dichloropropene
Concen: 1.168 ug/L
RT: 7.568 min Scan# 1937
Delta R.T. -0.045 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

Instrument :
MSVOA_U
ClientSampleId :
F4A27

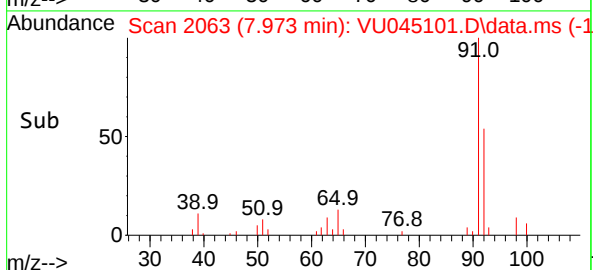
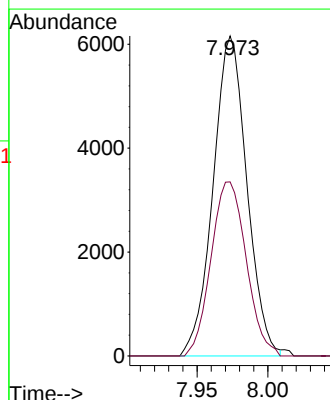
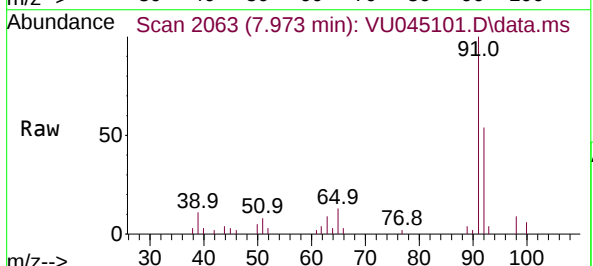
Tgt Ion: 75 Resp: 3936
Ion Ratio Lower Upper
75 100
77 42.5 22.4 41.6#

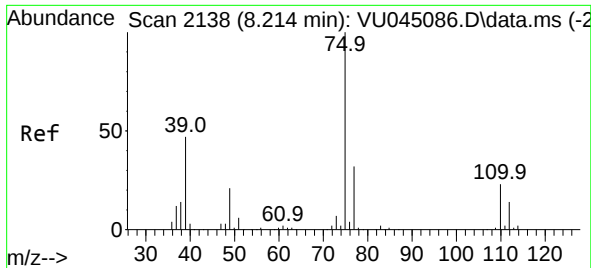


#42

Toluene
Concen: 1.163 ug/L
RT: 7.973 min Scan# 2063
Delta R.T. 0.000 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

Tgt Ion: 91 Resp: 10223
Ion Ratio Lower Upper
91 100
92 54.4 40.5 75.1

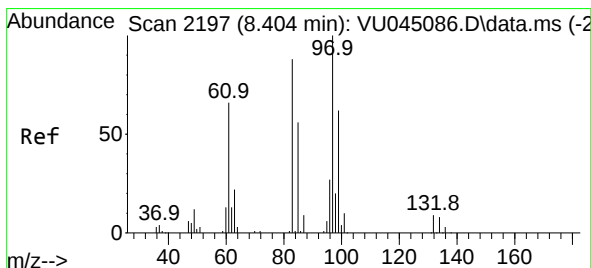
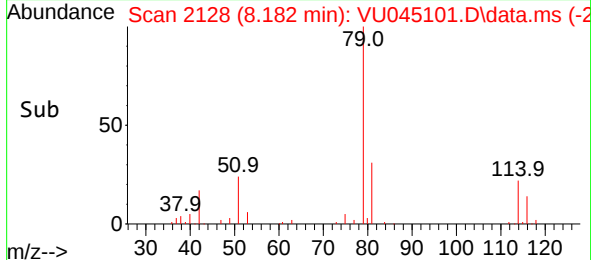
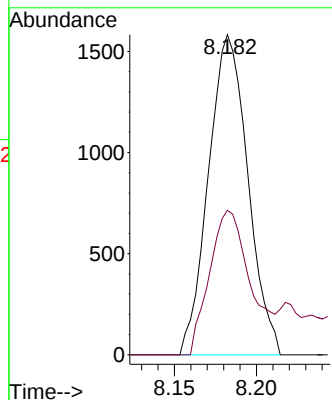
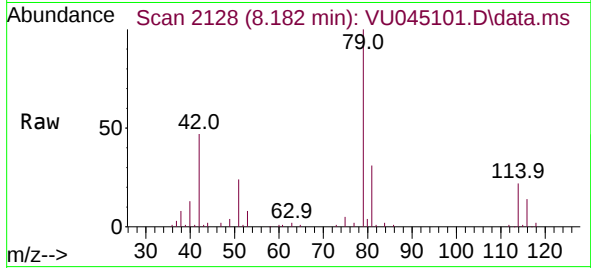




#44
trans-1,3-Dichloropropene
Concen: 0.824 ug/L
RT: 8.182 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

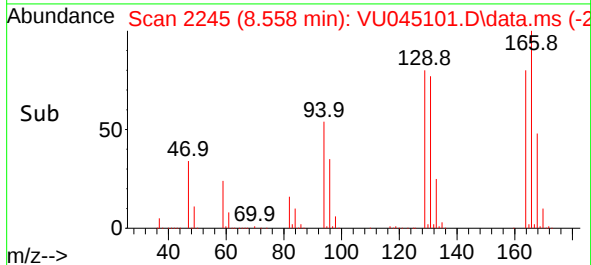
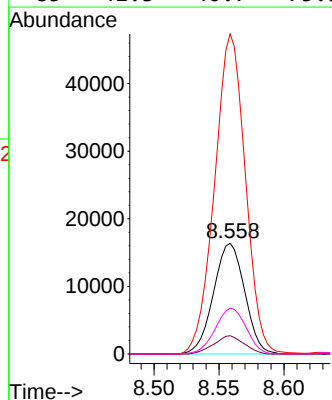
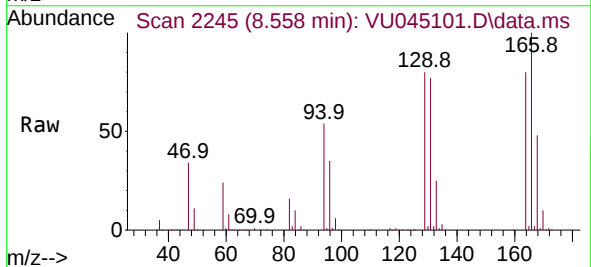
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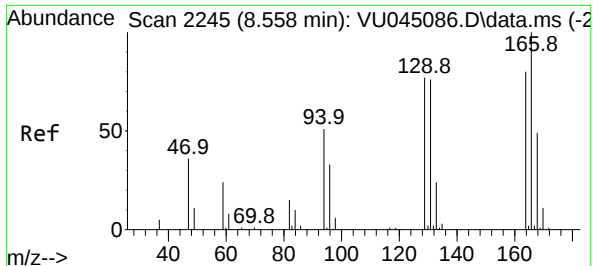
Tgt Ion: 75 Resp: 2640
Ion Ratio Lower Upper
75 100
77 45.2 21.7 40.3#



#45
1,1,2-Trichloroethane
Concen: 12.806 ug/L
RT: 8.558 min Scan# 2245
Delta R.T. 0.154 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

Tgt Ion: 97 Resp: 27324
Ion Ratio Lower Upper
97 100
99 16.5 43.7 81.1#
83 289.0 61.9 115.1#
85 41.3 40.7 75.5

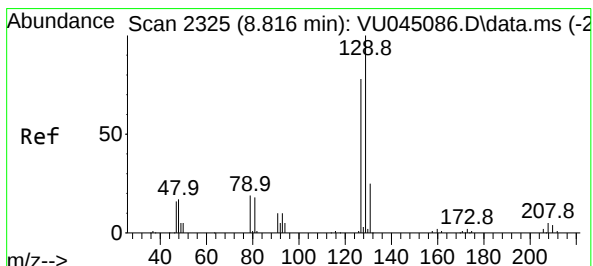
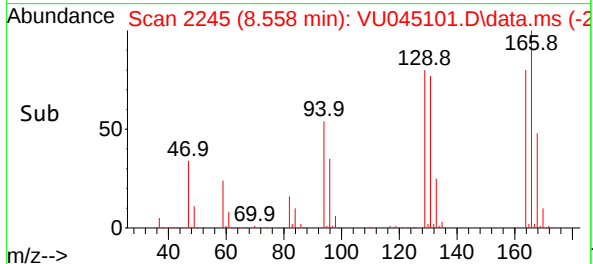
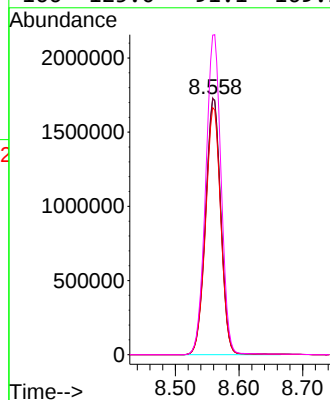
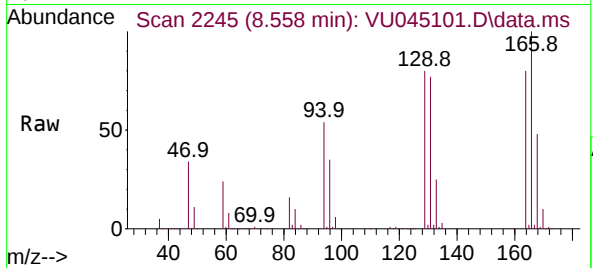




#46
Tetrachloroethene
Concen: 1941.471 ug/L
RT: 8.558 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

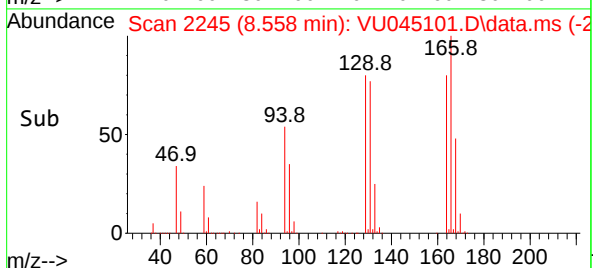
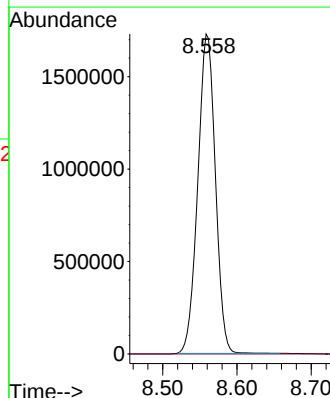
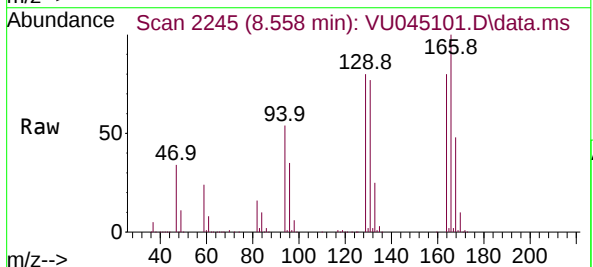
Instrument :
MSVOA_U
ClientSampleId :
F4A27

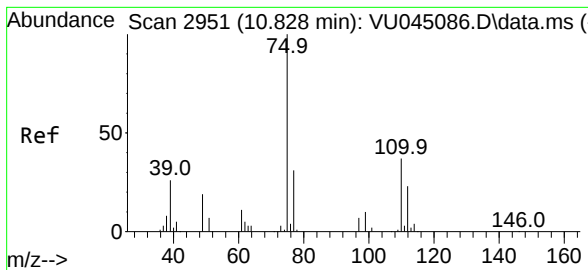
Tgt Ion:164 Resp: 2882338
Ion Ratio Lower Upper
164 100
129 100.4 69.8 129.6
131 96.6 66.4 123.2
166 125.0 91.1 169.3



#49
Dibromochloromethane
Concen: 1345.730 ug/L
RT: 8.558 min Scan# 2245
Delta R.T. -0.257 min
Lab File: VU045101.D
Acq: 04 Oct 2021 17:08

Tgt Ion:129 Resp: 2839866
Ion Ratio Lower Upper
129 100
127 0.0 54.3 100.8#





#60
 1,2,3-Trichloropropane
 Concen: 4.781 ug/L
 RT: 11.816 min Scan# 3258
 Delta R.T. 0.987 min
 Lab File: VU045101.D
 Acq: 04 Oct 2021 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 F4A27

Tgt Ion:	75	Resp:	14611
Ion	Ratio	Lower	Upper
75	100		
77	33.9	25.5	38.3
110	2.2	29.0	43.4#

