

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120921\
 Data File : VU046221.D
 Acq On : 09 Dec 2021 15:39
 Operator : SY/MD
 Sample : M4982-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 03:44:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

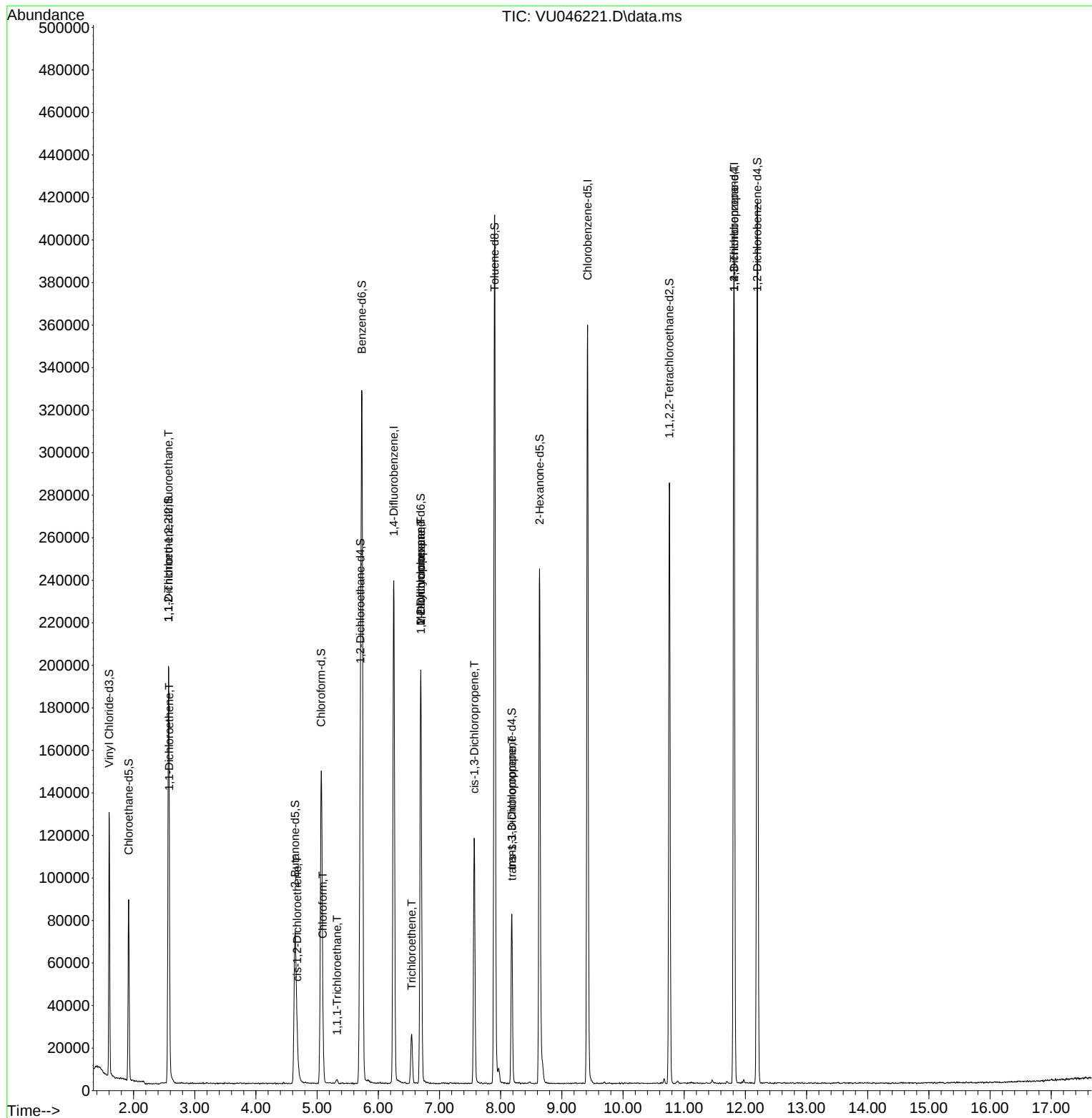
Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	199471	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	206370	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	109946	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	86679	52.752	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery = 105.500%			
7) Chloroethane-d5	1.919	69	62610	49.628	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery = 99.260%			
11) 1,1-Dichloroethene-d2	2.572	63	115947	39.308	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 78.620%			
21) 2-Butanone-d5	4.639	46	129306	98.993	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery = 98.990%			
24) Chloroform-d	5.067	84	138310	50.405	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 100.820%			
26) 1,2-Dichloroethane-d4	5.707	65	96273	52.280	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 104.560%			
32) Benzene-d6	5.732	84	312024	52.752	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery = 105.500%			
36) 1,2-Dichloropropane-d6	6.694	67	93518	51.015	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery = 102.040%			
41) Toluene-d8	7.899	98	280699	52.121	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.240%			
43) trans-1,3-Dichloroprop...	8.182	79	45802	51.759	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery = 103.520%			
47) 2-Hexanone-d5	8.636	63	89180	102.605	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery = 102.600%			
56) 1,1,2,2-Tetrachloroeth...	10.758	84	140064	50.382	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery = 100.760%			
66) 1,2-Dichlorobenzene-d4	12.195	152	110372	52.127	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.260%			
Target Compounds						Qvalue
10) 1,1,2-Trichloro-1,2,2-...	2.572	101	1040	0.717	ug/L #	21
12) 1,1-Dichloroethene	2.584	96	2855	2.070	ug/L #	1
20) cis-1,2-Dichloroethene	4.674	96	2418	1.527	ug/L	98
25) Chloroform	5.092	83	11519	3.907	ug/L	96
30) 1,1,1-Trichloroethane	5.327	97	1806	0.713	ug/L #	88
34) Trichloroethene	6.546	95	7292	4.432	ug/L	98
35) Methylcyclohexane	6.694	83	22180	8.693	ug/L #	20
37) 1,2-Dichloropropane	6.697	63	10099	6.172	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2992	1.202	ug/L #	65
44) trans-1,3-Dichloropropene	8.186	75	1792	0.733	ug/L	86
60) 1,2,3-Trichloropropane	11.816	75	13045	5.413	ug/L #	65

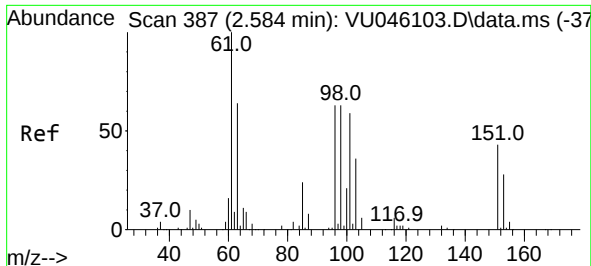
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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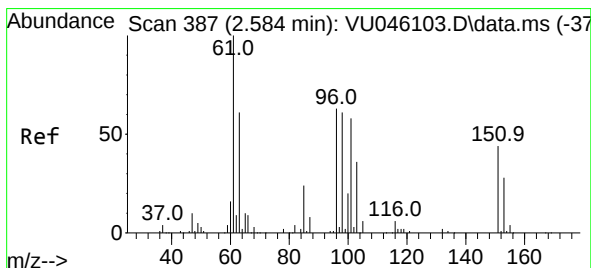
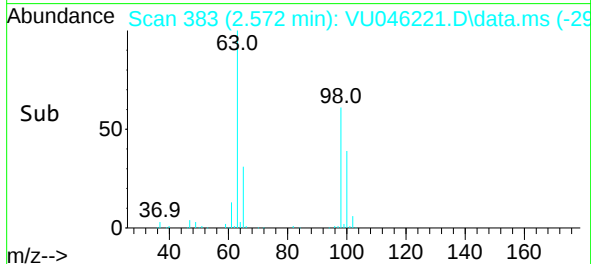
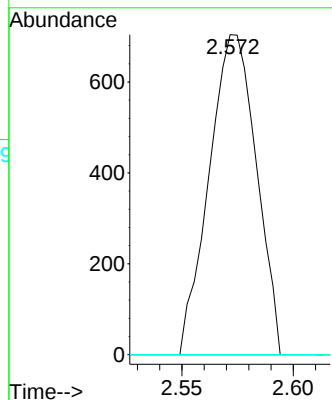
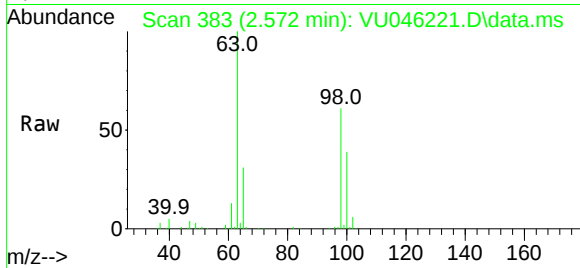




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.717 ug/L
RT: 2.572 min Scan# 383
Delta R.T. -0.016 min
Lab File: VU046221.D
Acq: 09 Dec 2021 15:39

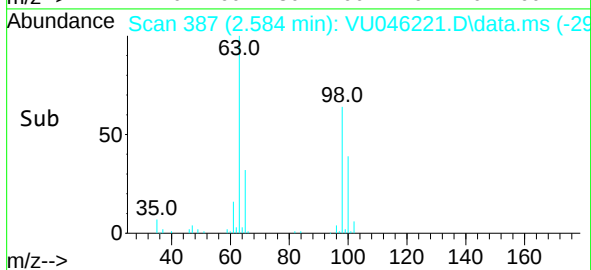
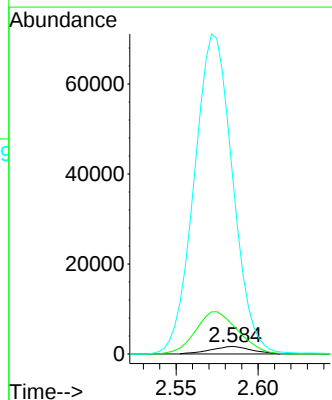
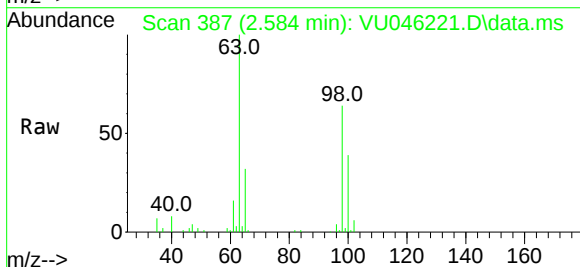
Instrument :
MSVOA_U
ClientSampleId :

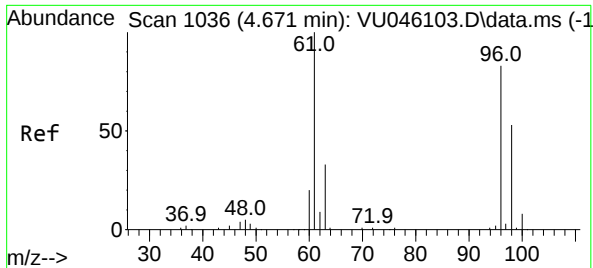
Tgt Ion:101 Resp: 1040
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#12
1,1-Dichloroethene
Concen: 2.070 ug/L
RT: 2.584 min Scan# 387
Delta R.T. 0.000 min
Lab File: VU046221.D
Acq: 09 Dec 2021 15:39

Tgt Ion: 96 Resp: 2855
Ion Ratio Lower Upper
96 100
61 385.0 118.6 220.2#
63 2350.2 93.0 172.8#

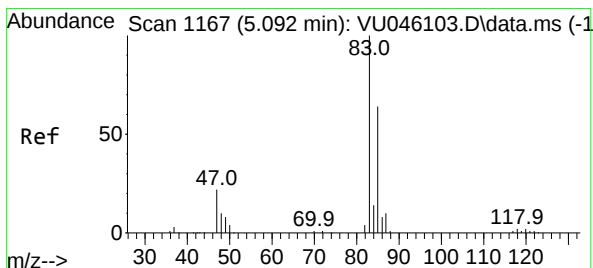
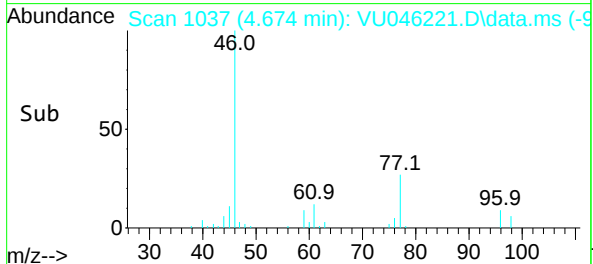
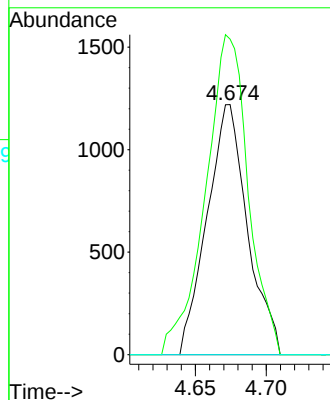
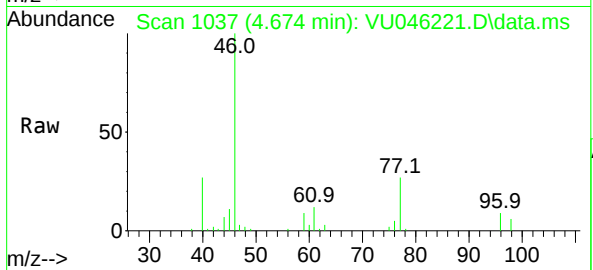




#20
 cis-1,2-Dichloroethene
 Concen: 1.527 ug/L
 RT: 4.674 min Scan# 1103
 Delta R.T. 0.003 min
 Lab File: VU046221.D
 Acq: 09 Dec 2021 15:39

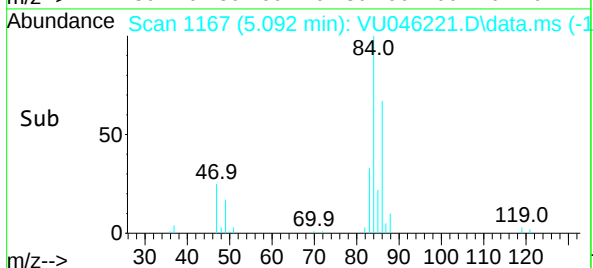
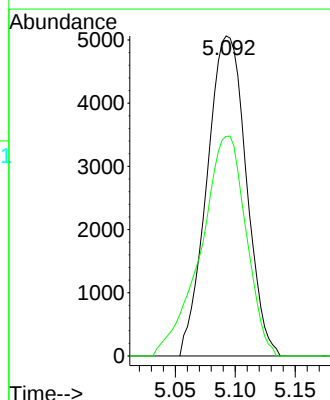
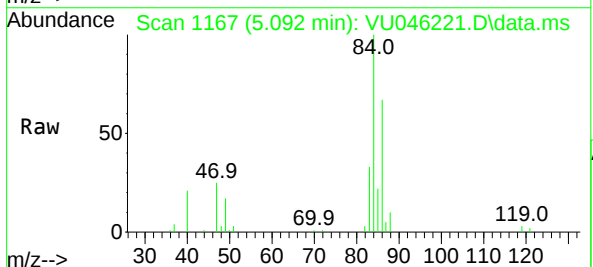
Instrument :
 MSVOA_U
 ClientSampleId :

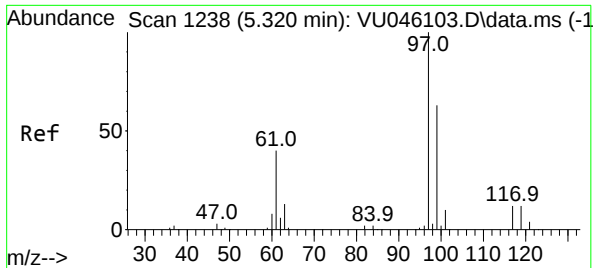
Tgt Ion: 96 Resp: 2418
 Ion Ratio Lower Upper
 96 100
 61 126.1 86.8 161.2
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 3.907 ug/L
 RT: 5.092 min Scan# 1167
 Delta R.T. 0.000 min
 Lab File: VU046221.D
 Acq: 09 Dec 2021 15:39

Tgt Ion: 83 Resp: 11519
 Ion Ratio Lower Upper
 83 100
 85 68.6 45.8 85.2





#30

1,1,1-Trichloroethane

Concen: 0.713 ug/L

RT: 5.327 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU046221.D

Acq: 09 Dec 2021 15:39

Instrument :

MSVOA_U

ClientSampleId :

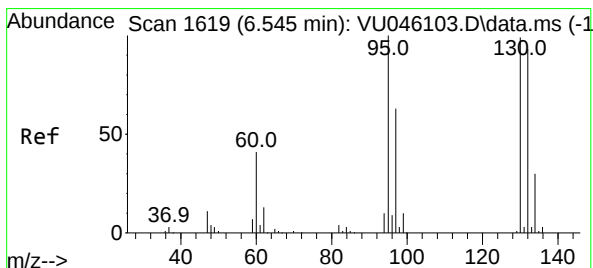
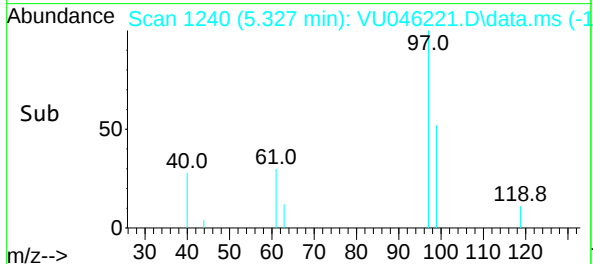
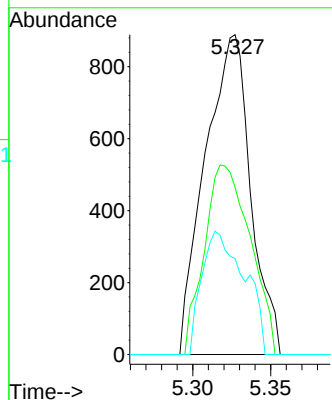
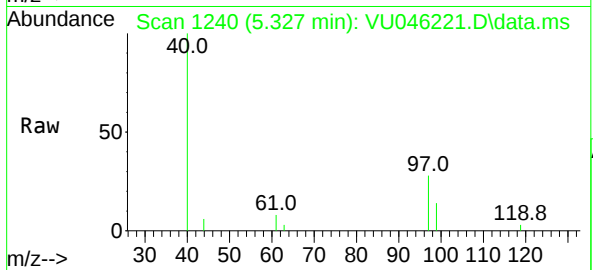
Tgt Ion: 97 Resp: 1806

Ion Ratio Lower Upper

97 100

99 59.8 51.8 77.6

61 30.3 34.4 51.6#



#34

Trichloroethene

Concen: 4.432 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VU046221.D

Acq: 09 Dec 2021 15:39

Tgt Ion: 95 Resp: 7292

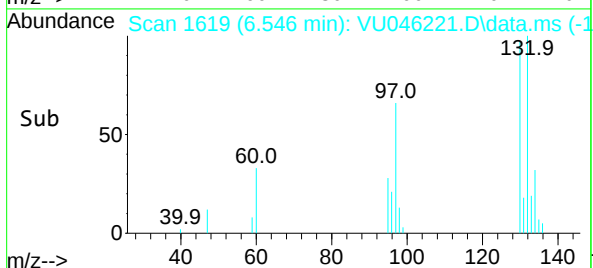
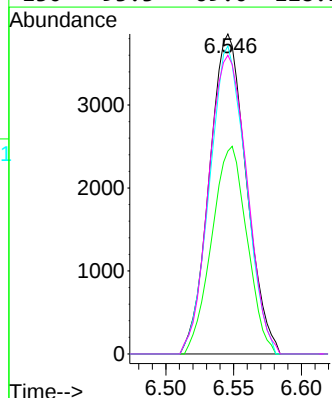
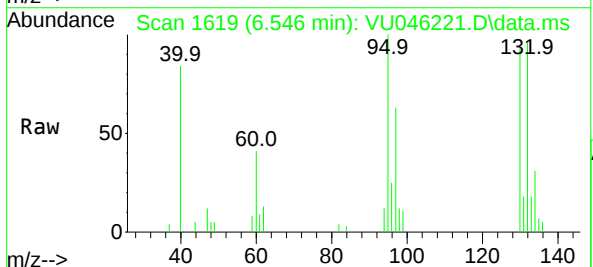
Ion Ratio Lower Upper

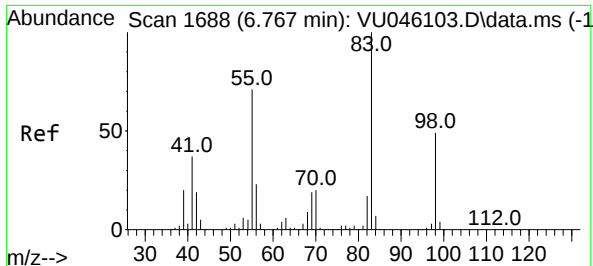
95 100

97 63.4 44.1 81.9

132 96.2 66.8 124.0

130 93.3 69.0 128.1

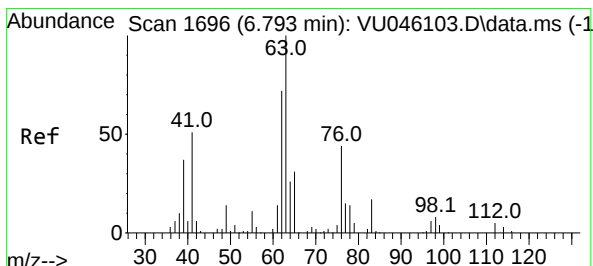
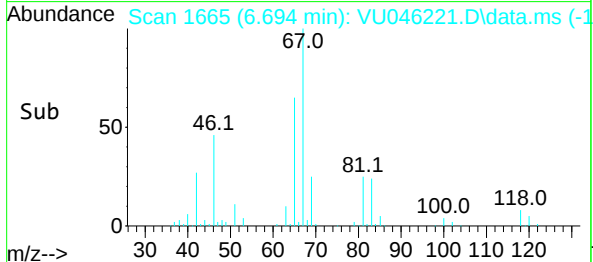
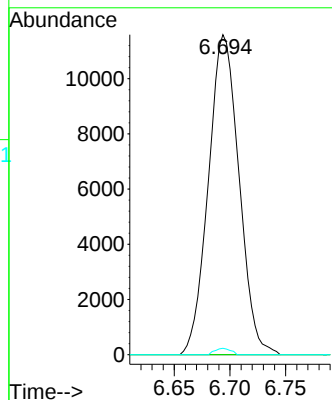
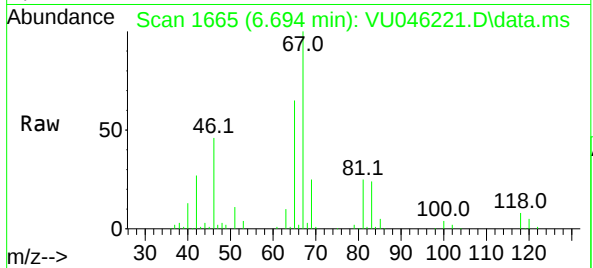




#35
Methylcyclohexane
Concen: 8.693 ug/L
RT: 6.694 min Scan# 1665
Delta R.T. -0.074 min
Lab File: VU046221.D
Acq: 09 Dec 2021 15:39

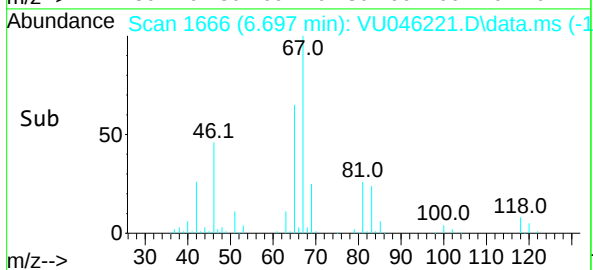
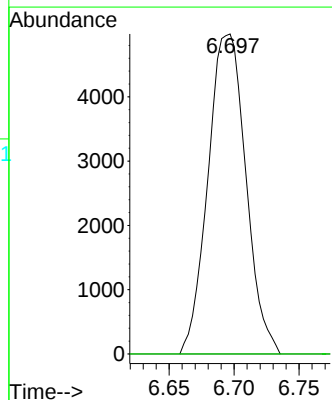
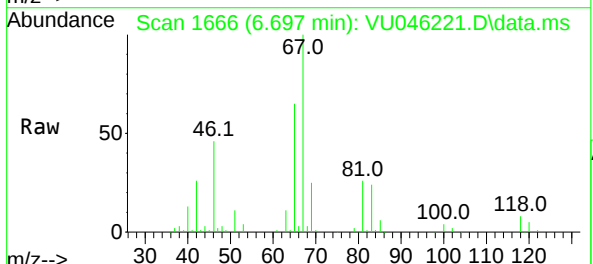
Instrument :
MSVOA_U
ClientSampleId :

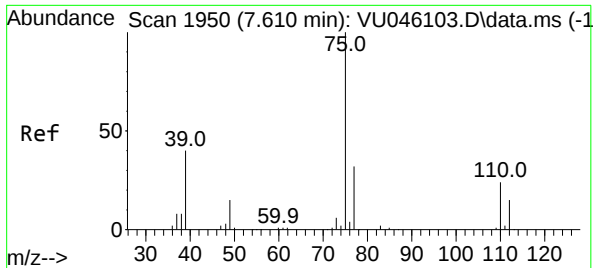
Tgt Ion: 83 Resp: 22180
Ion Ratio Lower Upper
83 100
55 0.0 57.8 86.6#
98 1.0 38.4 57.6#



#37
1,2-Dichloropropane
Concen: 6.172 ug/L
RT: 6.697 min Scan# 1666
Delta R.T. -0.096 min
Lab File: VU046221.D
Acq: 09 Dec 2021 15:39

Tgt Ion: 63 Resp: 10099
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 1.202 ug/L

RT: 7.568 min Scan# 1950

Delta R.T. -0.042 min

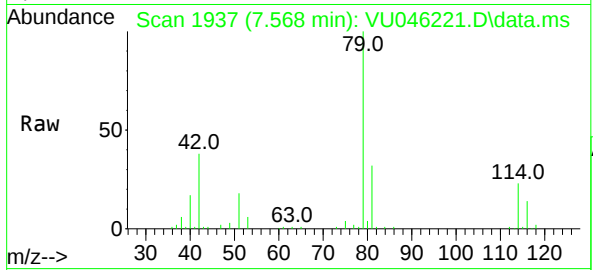
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Instrument :

MSVOA_U

ClientSampleId :

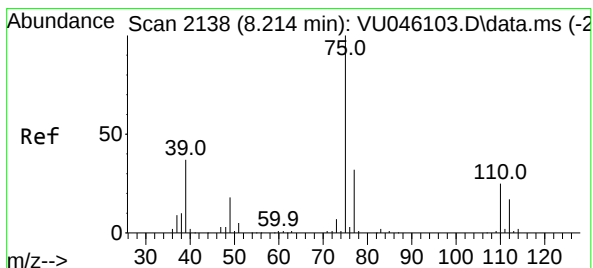
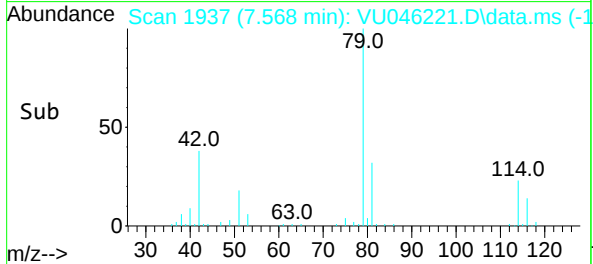
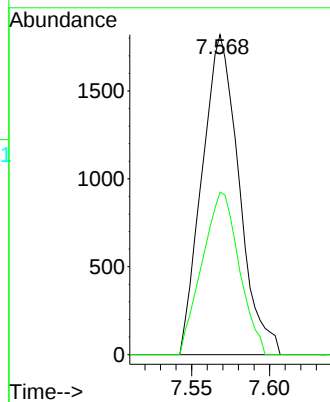


Tgt Ion: 75 Resp: 2992

Ion Ratio Lower Upper

75 100

77 50.8 21.8 40.6#



#44

trans-1,3-Dichloropropene

Concen: 0.733 ug/L

RT: 8.186 min Scan# 2129

Delta R.T. -0.029 min

Lab File: VU046221.D

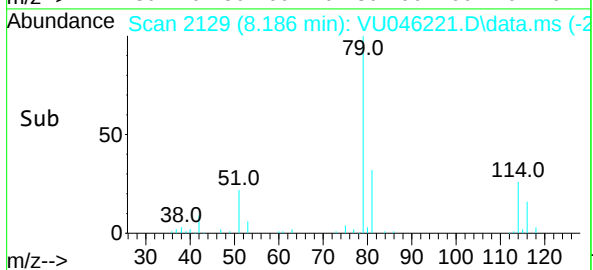
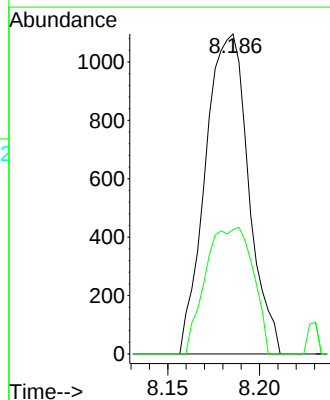
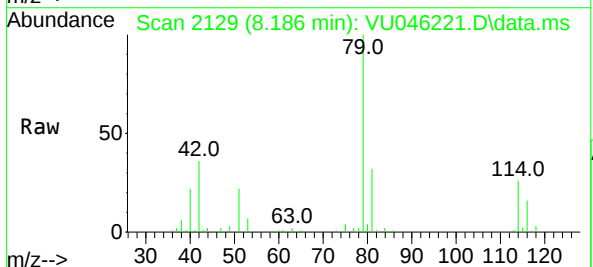
Acq: 09 Dec 2021 15:39

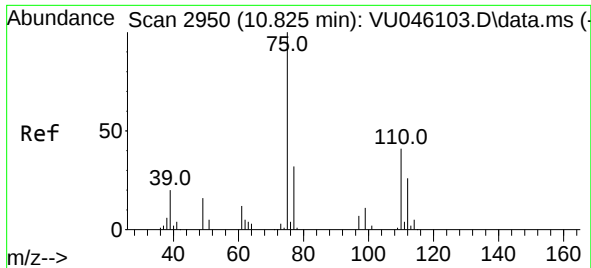
Tgt Ion: 75 Resp: 1792

Ion Ratio Lower Upper

75 100

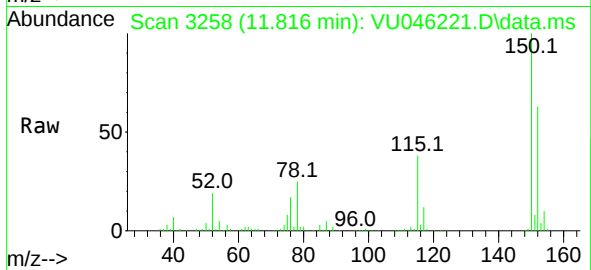
77 38.9 21.7 40.3





#60
 1,2,3-Trichloropropane
 Concen: 5.413 ug/L
 RT: 11.816 min Scan# 31
 Delta R.T. 0.990 min
 Lab File: VU046221.D
 Acq: 09 Dec 2021 15:39

Instrument :
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Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.4	39.6
110	1.2	32.4	48.6#

