

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100421\
 Data File : VU045098.D
 Acq On : 04 Oct 2021 15:59
 Operator : SY/MD
 Sample : M3996-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F4A22

Quant Time: Oct 05 02:46:03 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	279179	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	265863	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	124239	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	95368	31.205	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	62.400%
7) Chloroethane-d5	1.909	69	88527	36.554	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	73.100%
11) 1,1-Dichloroethene-d2	2.569	63	140043	27.286	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	54.580%#
21) 2-Butanone-d5	4.630	46	244013	100.993	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.990%
24) Chloroform-d	5.070	84	201463	41.737	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.480%
26) 1,2-Dichloroethane-d4	5.707	65	143699	43.950	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.900%
32) Benzene-d6	5.732	84	399667	43.323	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.640%
36) 1,2-Dichloropropane-d6	6.697	67	133717	44.453	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.900%
41) Toluene-d8	7.903	98	338050	42.461	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.920%
43) trans-1,3-Dichloroprop...	8.183	79	58870	43.996	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.000%
47) 2-Hexanone-d5	8.636	63	180612	108.346	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.350%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	206927	44.176	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.360%
66) 1,2-Dichlorobenzene-d4	12.195	152	127070	46.997	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.000%
Target Compounds						
					Qvalue	
8) Chloroethane	1.604	64	5078	2.479	ug/L	96
18) Methyl tert-butyl Ether	3.376	73	3797	0.506	ug/L #	90
20) cis-1,2-Dichloroethene	4.671	96	5393	2.149	ug/L	83
25) Chloroform	5.093	83	2434	0.517	ug/L	92
33) Benzene	5.781	78	16120	1.635	ug/L	100
34) Trichloroethene	6.546	95	11876	5.014	ug/L	97
35) Methylcyclohexane	6.697	83	31072	7.836	ug/L #	17
37) 1,2-Dichloropropane	6.697	63	15158	5.646	ug/L #	88
39) cis-1,3-Dichloropropene	7.572	75	3879	1.010	ug/L #	61
42) Toluene	7.974	91	21043	2.100	ug/L	99
44) trans-1,3-Dichloropropene	8.183	75	2882	0.789	ug/L	100
45) 1,1,2-Trichloroethane	8.559	97	24903	10.235	ug/L #	1
46) Tetrachloroethene	8.559	164	2632468	1555.020	ug/L	98
49) Dibromochloromethane	8.559	129	2607658	1083.671	ug/L #	11
52) Ethylbenzene	9.575	91	8010	0.757	ug/L	98
53) m,p-Xylene	9.700	106	3178	0.793	ug/L	79
54) o-xylene	10.102	106	1894	0.481	ug/L	96
60) 1,2,3-Trichloropropane	11.813	75	16583	4.826	ug/L #	69
63) 1,2,4-Trimethylbenzene	11.472	105	4117	0.529	ug/L	98

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QLast Update : Tue Oct 05 02:41:56 2021
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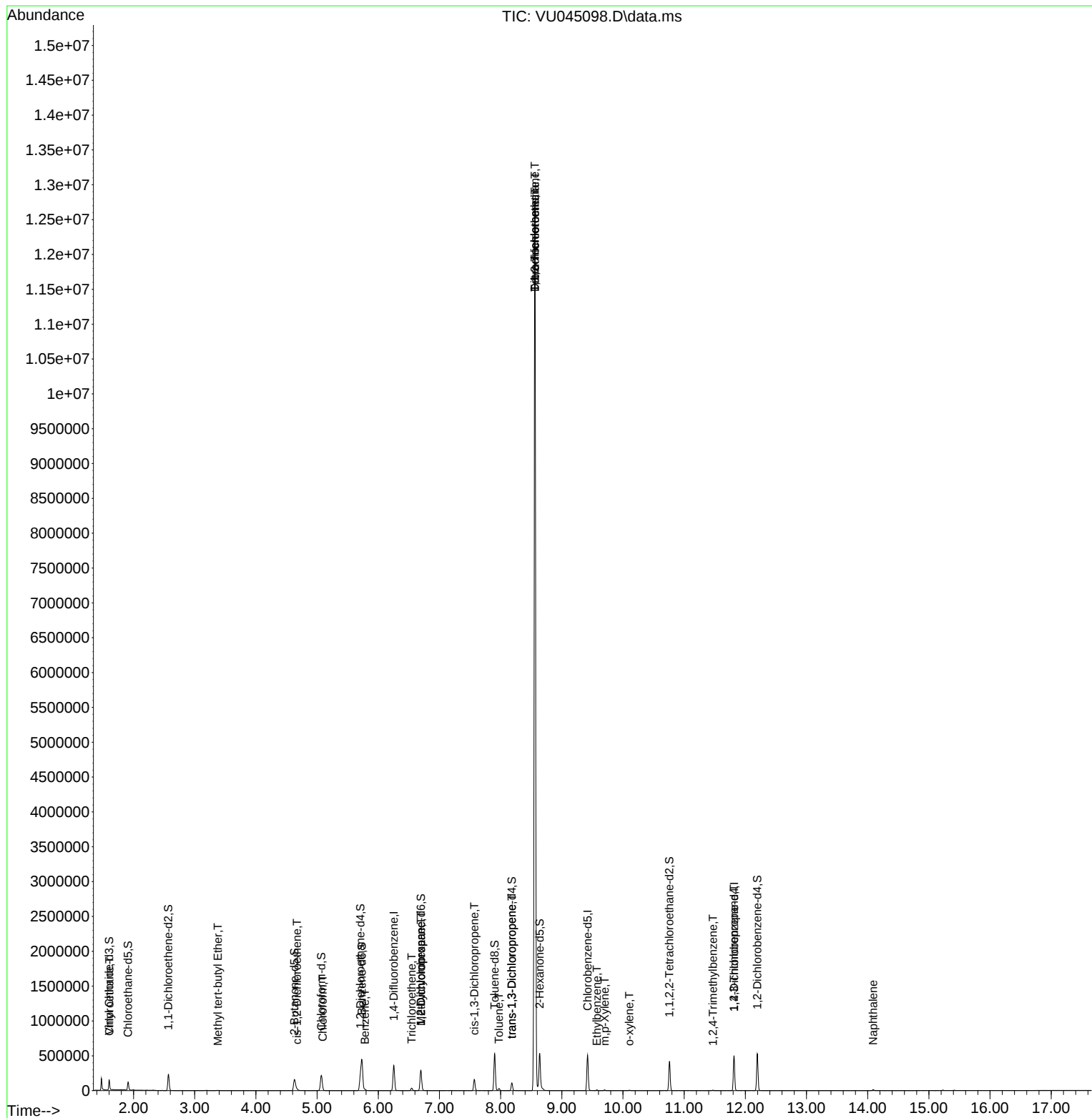
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) Naphthalene	14.089	128	11954	1.424	ug/L	98

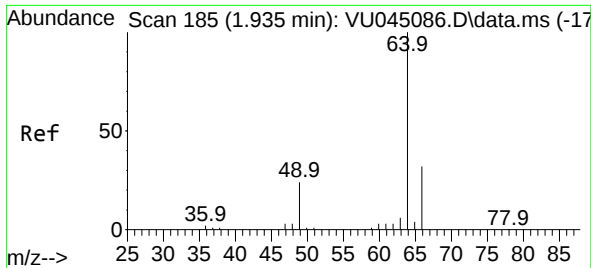
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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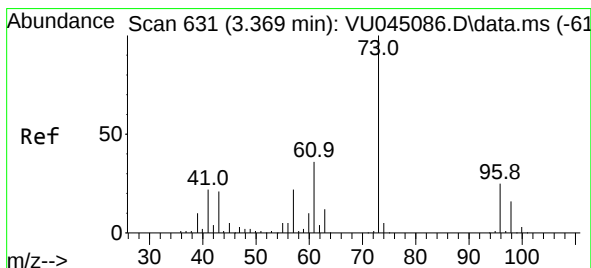
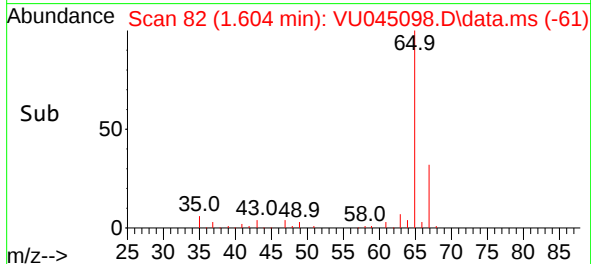
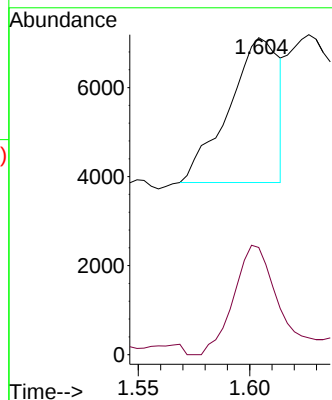
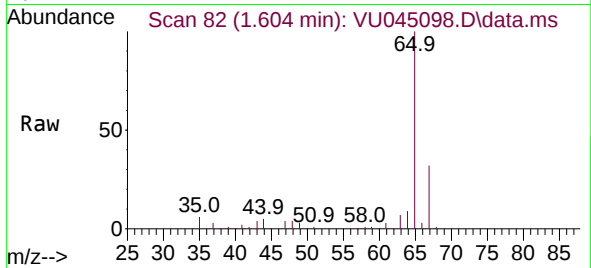




#8
Chloroethane
Concen: 2.479 ug/L
RT: 1.604 min Scan# 82
Delta R.T. -0.331 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

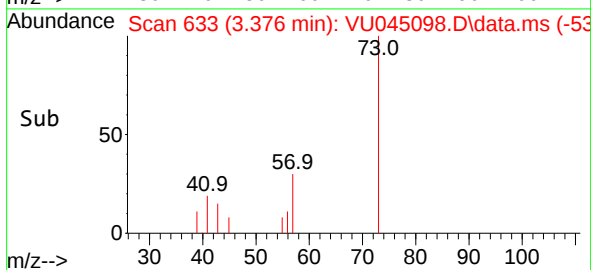
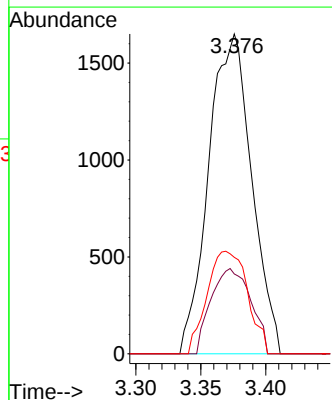
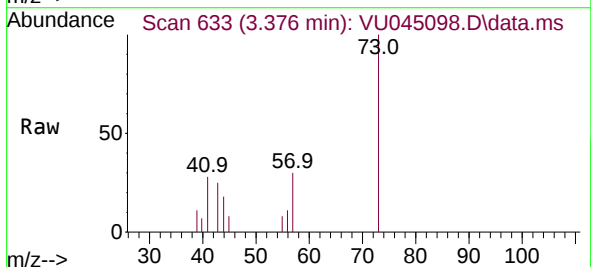
Instrument :
MSVOA_U
ClientSampled :
F4A22

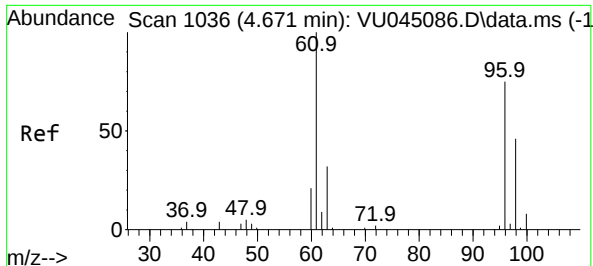
Tgt Ion: 64 Resp: 5078
Ion Ratio Lower Upper
64 100
66 33.8 22.3 41.3



#18
Methyl tert-butyl Ether
Concen: 0.506 ug/L
RT: 3.376 min Scan# 633
Delta R.T. 0.007 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

Tgt Ion: 73 Resp: 3797
Ion Ratio Lower Upper
73 100
43 24.7 17.3 25.9
57 30.2 18.7 28.1#





#20

cis-1,2-Dichloroethene

Concen: 2.149 ug/L

RT: 4.671 min Scan# 1036

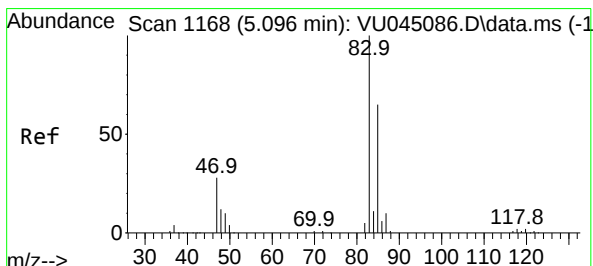
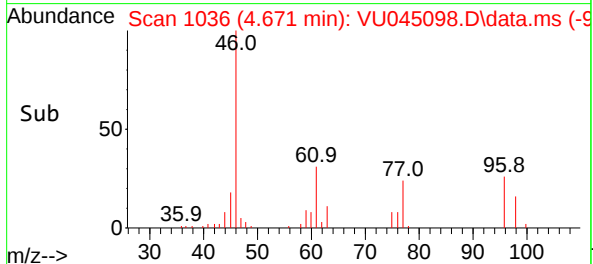
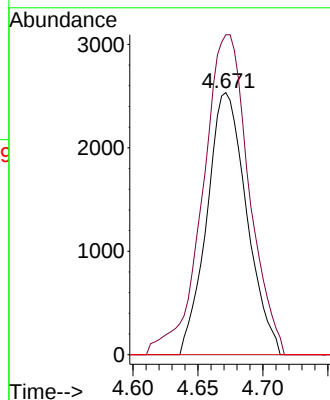
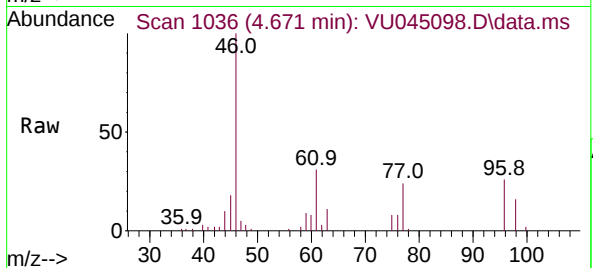
Delta R.T. 0.000 min

Lab File: VU045098.D

Acq: 04 Oct 2021 15:59

Tgt Ion:	96	Resp:	5393
Ion	Ratio	Lower	Upper
96	100		
61	122.1	100.2	186.0
68	0.0	0.0	0.0

Instrument :
MSVOA_U
ClientSampled :
F4A22



#25

Chloroform

Concen: 0.517 ug/L

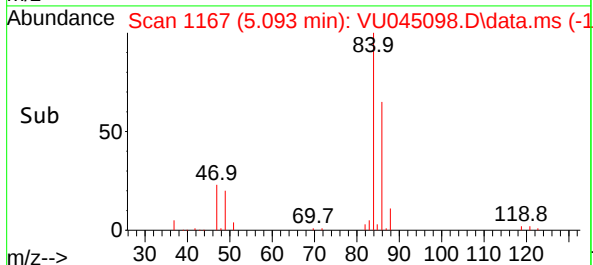
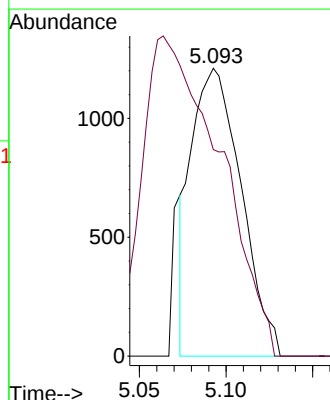
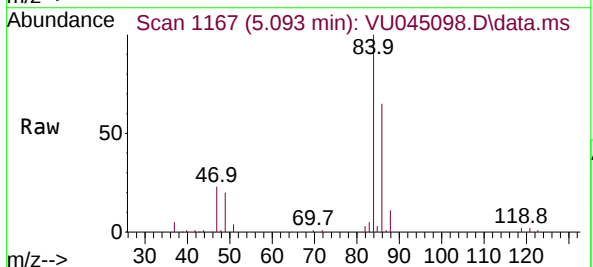
RT: 5.093 min Scan# 1167

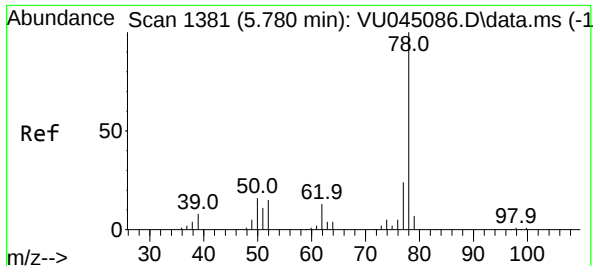
Delta R.T. -0.003 min

Lab File: VU045098.D

Acq: 04 Oct 2021 15:59

Tgt Ion:	83	Resp:	2434
Ion	Ratio	Lower	Upper
83	100		
85	71.8	45.6	84.6





#33

Benzene

Concen: 1.635 ug/L

RT: 5.781 min Scan# 1381

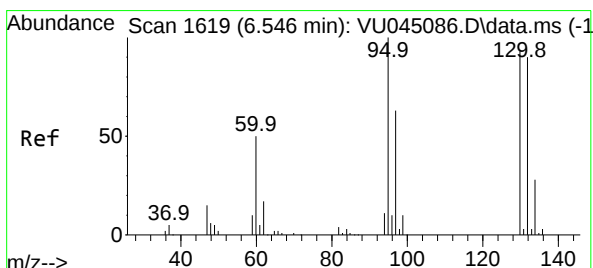
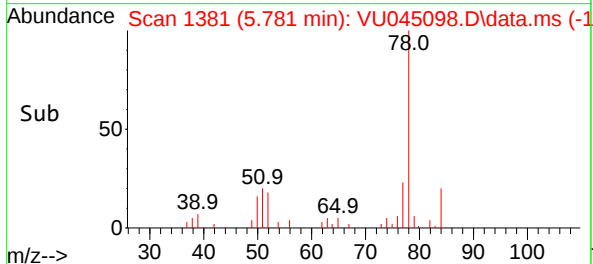
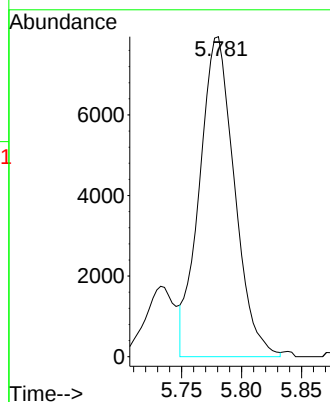
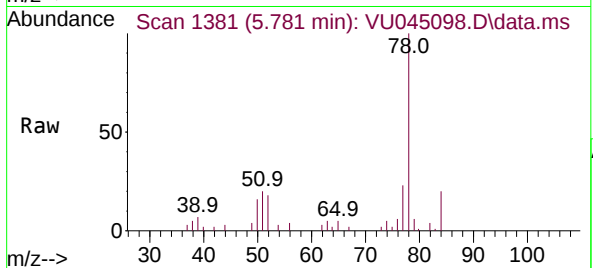
Delta R.T. 0.000 min

Lab File: VU045098.D

Acq: 04 Oct 2021 15:59

Tgt Ion: 78 Resp: 16120

Instrument :
MSVOA_U
ClientSampled :
F4A22



#34

Trichloroethene

Concen: 5.014 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VU045098.D

Acq: 04 Oct 2021 15:59

Tgt Ion: 95 Resp: 11876

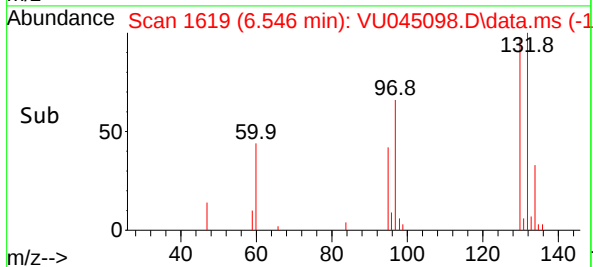
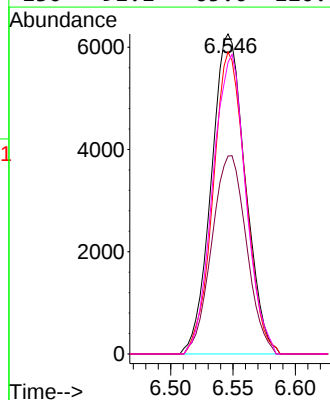
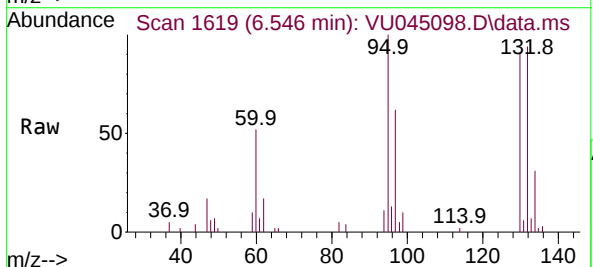
Ion Ratio Lower Upper

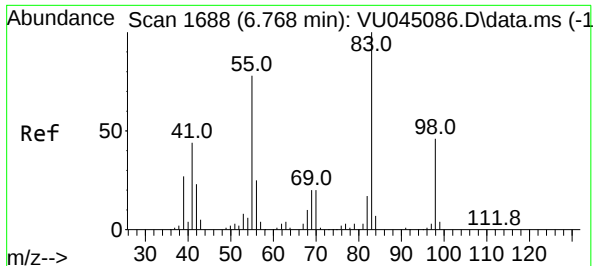
95 100

97 61.9 44.4 82.4

132 94.4 62.9 116.9

130 91.1 65.0 120.8

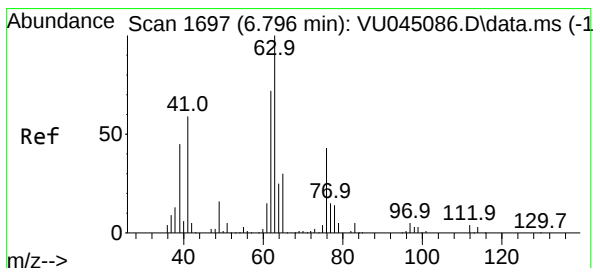
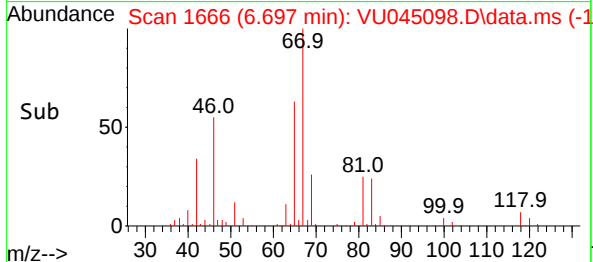
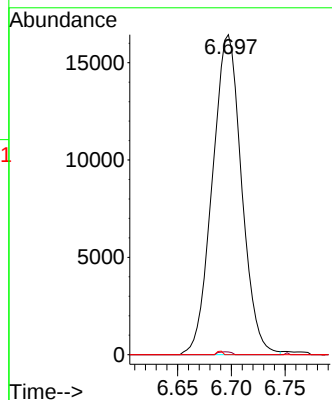
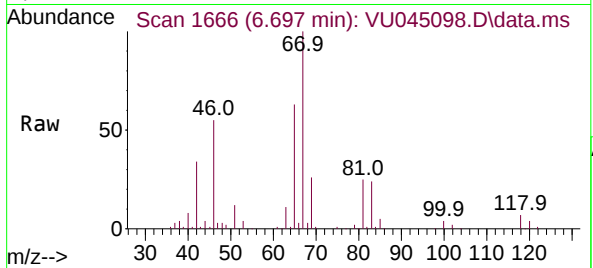




#35
Methylcyclohexane
Concen: 7.836 ug/L
RT: 6.697 min Scan# 1666
Delta R.T. -0.070 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

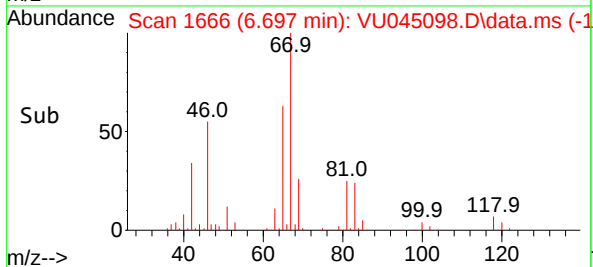
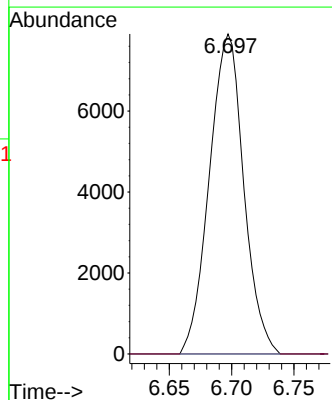
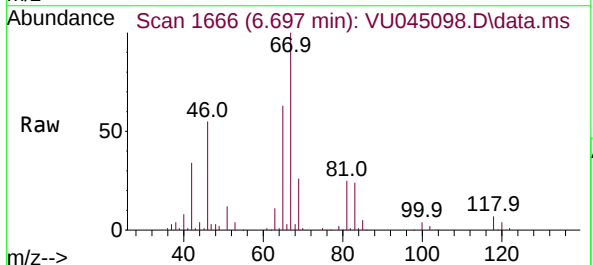
Instrument :
MSVOA_U
ClientSampled :
F4A22

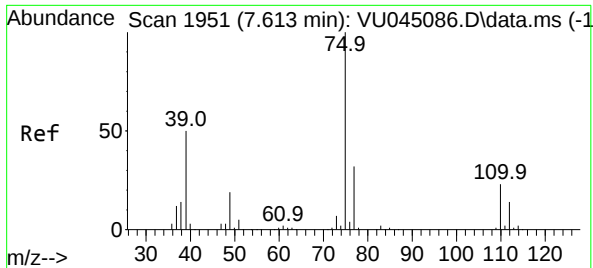
Tgt Ion	Ratio	Lower	Upper
83	100		
55	0.4	65.8	98.6#
98	0.2	37.1	55.7#



#37
1,2-Dichloropropane
Concen: 5.646 ug/L
RT: 6.697 min Scan# 1666
Delta R.T. -0.099 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

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



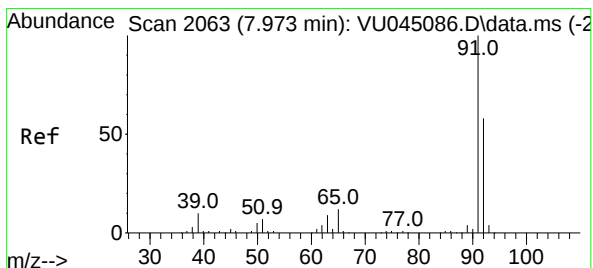
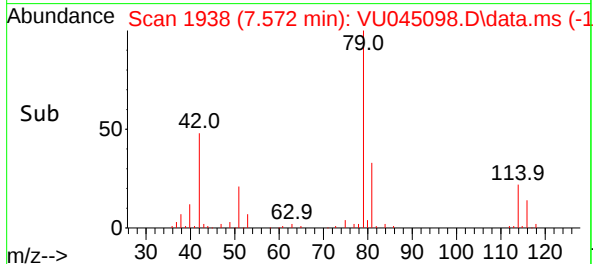
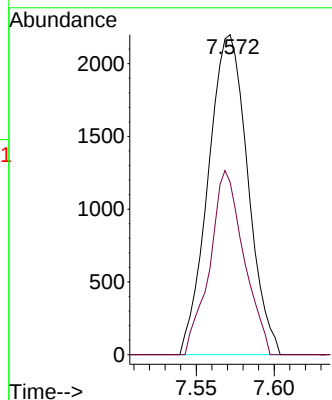
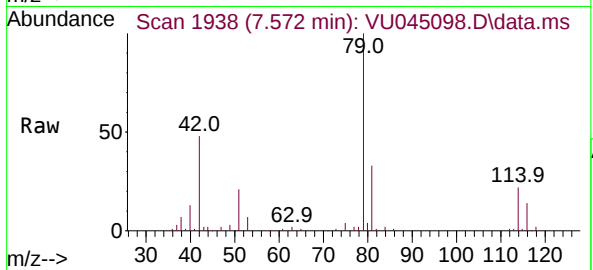


#39

cis-1,3-Dichloropropene
 Concen: 1.010 ug/L
 RT: 7.572 min Scan# 1938
 Delta R.T. -0.042 min
 Lab File: VU045098.D
 Acq: 04 Oct 2021 15:59

Instrument :
 MSVOA_U
 ClientSampled :
 F4A22

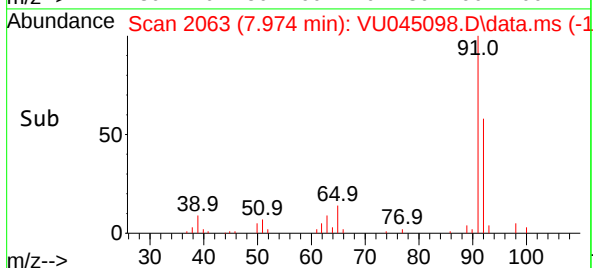
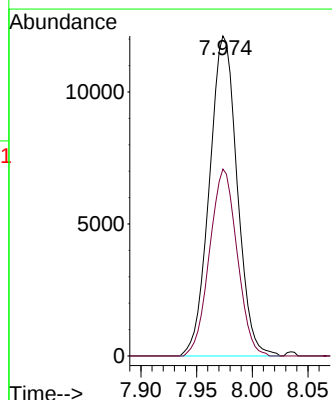
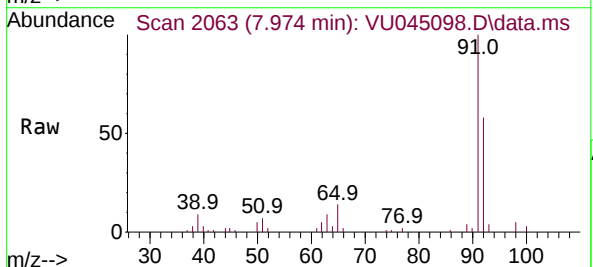
Tgt Ion: 75 Resp: 3879
 Ion Ratio Lower Upper
 75 100
 77 53.9 22.4 41.6#

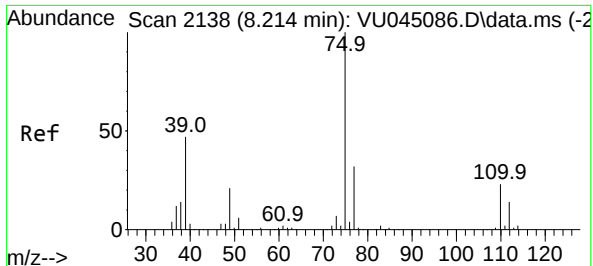


#42

Toluene
 Concen: 2.100 ug/L
 RT: 7.974 min Scan# 2063
 Delta R.T. 0.000 min
 Lab File: VU045098.D
 Acq: 04 Oct 2021 15:59

Tgt Ion: 91 Resp: 21043
 Ion Ratio Lower Upper
 91 100
 92 58.4 40.5 75.1



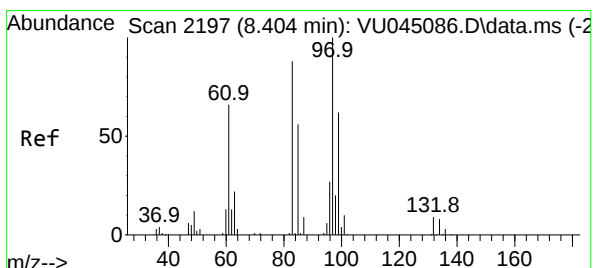
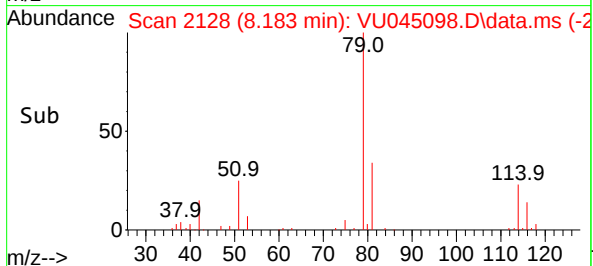
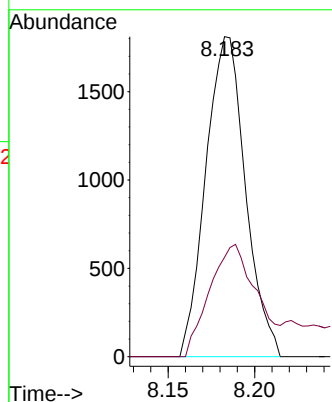
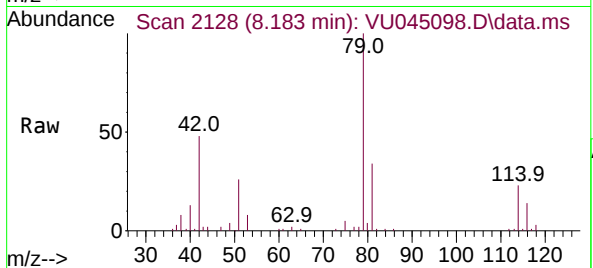


#44

trans-1,3-Dichloropropene
Concen: 0.789 ug/L
RT: 8.183 min Scan# 2128
Delta R.T. -0.032 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

Instrument :
MSVOA_U
ClientSampleId :
F4A22

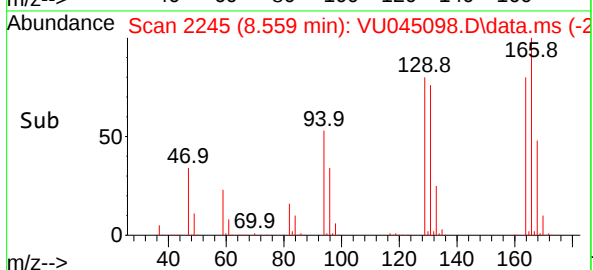
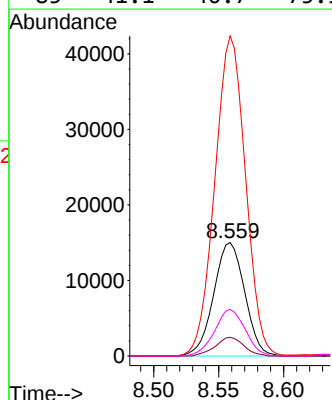
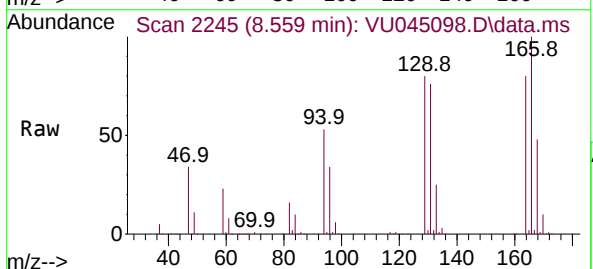
Tgt Ion: 75 Resp: 2882
Ion Ratio Lower Upper
75 100
77 31.1 21.7 40.3

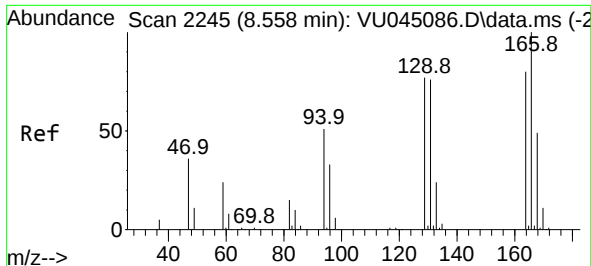


#45

1,1,2-Trichloroethane
Concen: 10.235 ug/L
RT: 8.559 min Scan# 2245
Delta R.T. 0.155 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

Tgt Ion: 97 Resp: 24903
Ion Ratio Lower Upper
97 100
99 16.5 43.7 81.1#
83 281.9 61.9 115.1#
85 41.1 40.7 75.5

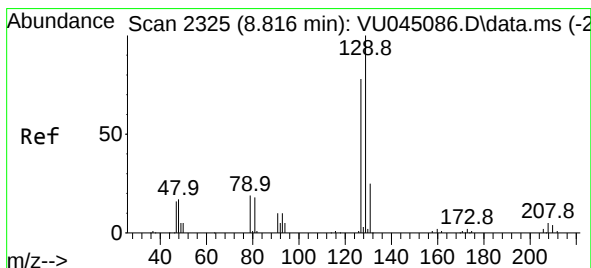
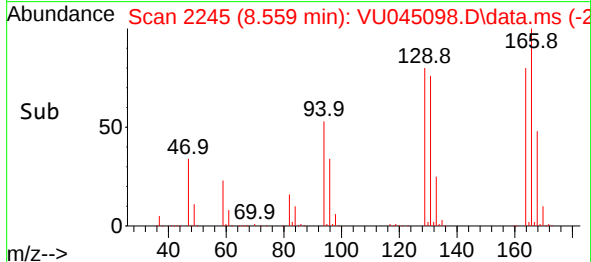
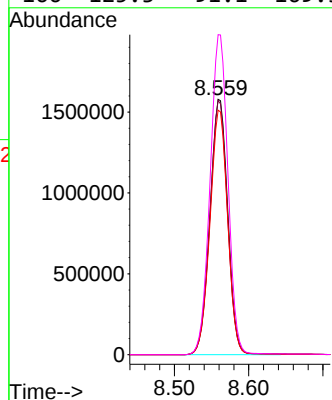
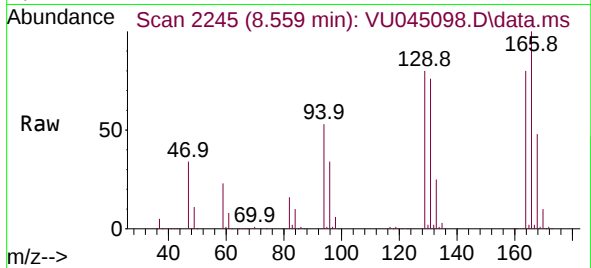




#46
Tetrachloroethene
Concen: 1555.020 ug/L
RT: 8.559 min Scan# 2245
Delta R.T. 0.000 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

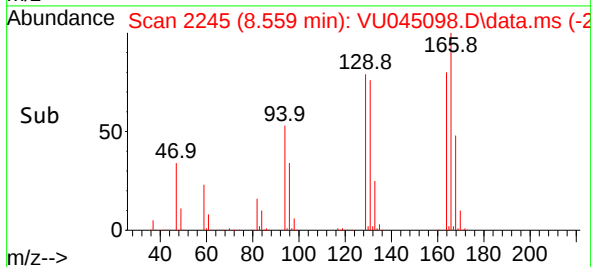
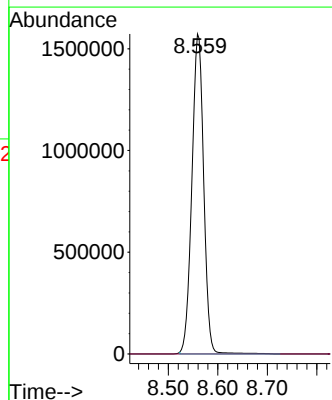
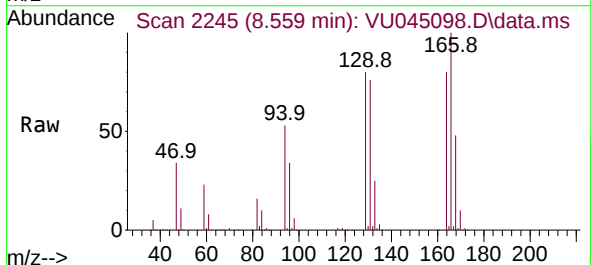
Instrument :
MSVOA_U
ClientSampled :
F4A22

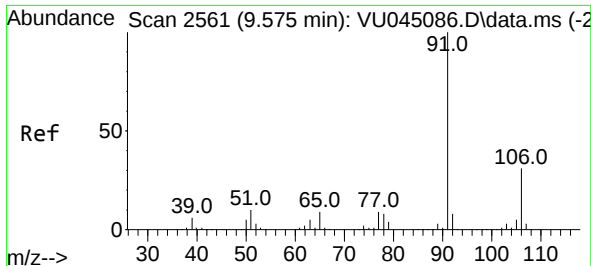
Tgt Ion:164 Resp: 2632468
Ion Ratio Lower Upper
164 100
129 99.6 69.8 129.6
131 95.8 66.4 123.2
166 125.3 91.1 169.3



#49
Dibromochloromethane
Concen: 1083.671 ug/L
RT: 8.559 min Scan# 2245
Delta R.T. -0.257 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

Tgt Ion:129 Resp: 2607658
Ion Ratio Lower Upper
129 100
127 0.0 54.3 100.8#

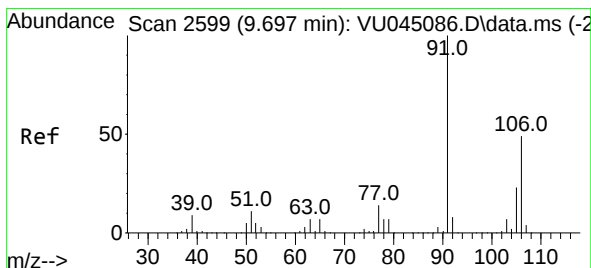
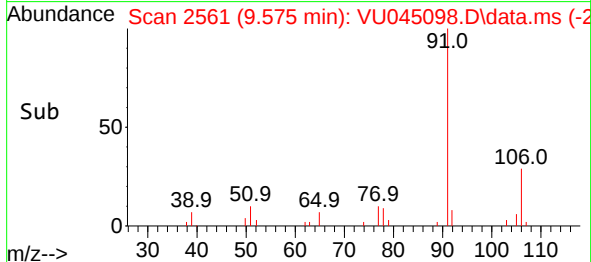
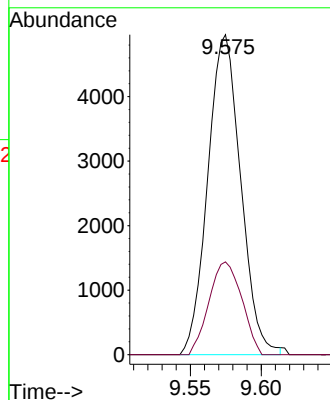
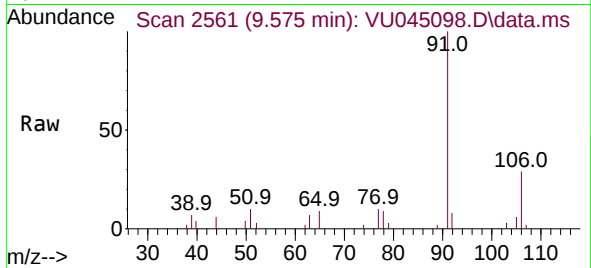




#52
Ethylbenzene
Concen: 0.757 ug/L
RT: 9.575 min Scan# 2561
Delta R.T. 0.000 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

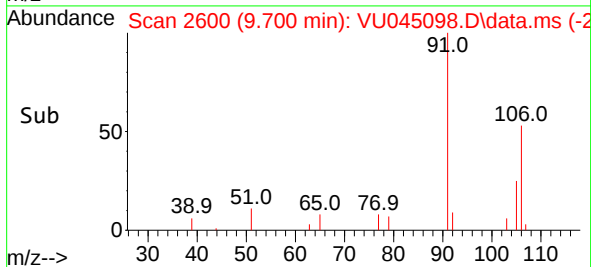
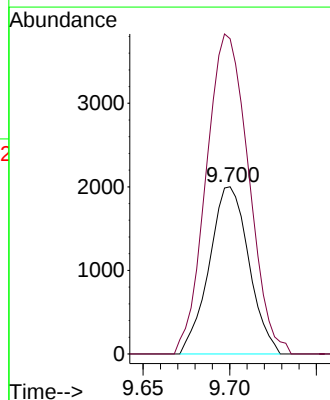
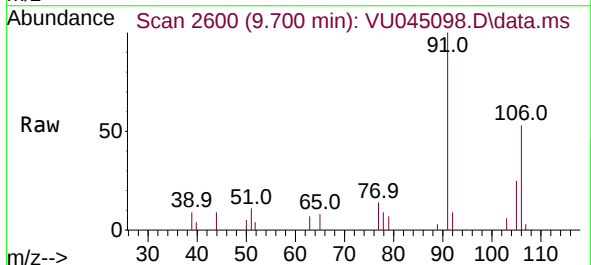
Instrument :
MSVOA_U
ClientSampled :
F4A22

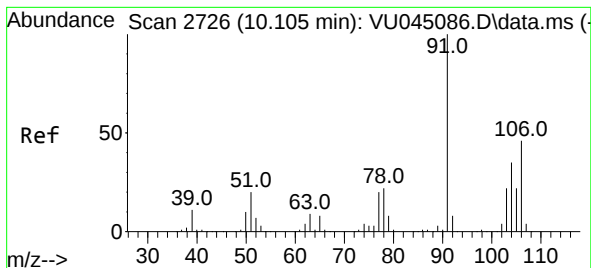
Tgt Ion: 91 Resp: 8010
Ion Ratio Lower Upper
91 100
106 29.0 21.2 39.4



#53
m,p-Xylene
Concen: 0.793 ug/L
RT: 9.700 min Scan# 2600
Delta R.T. 0.003 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

Tgt Ion: 106 Resp: 3178
Ion Ratio Lower Upper
106 100
91 176.8 146.7 272.4





#54

o-xylene

Concen: 0.481 ug/L

RT: 10.102 min Scan# 2725

Delta R.T. -0.003 min

Lab File: VU045098.D

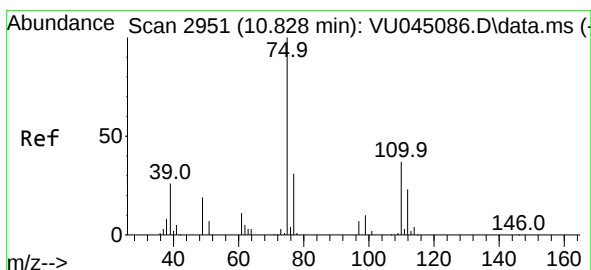
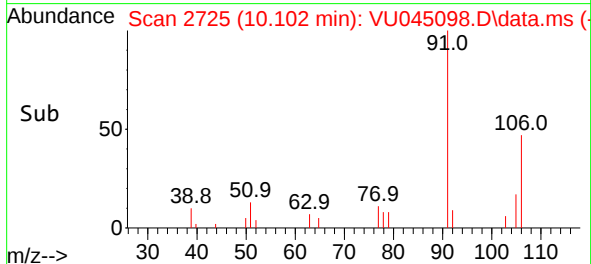
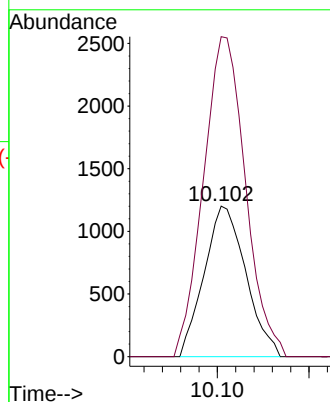
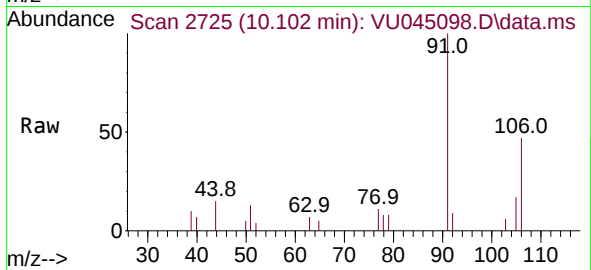
Acq: 04 Oct 2021 15:59

Tgt Ion:106 Resp: 1894

Ion Ratio Lower Upper

106 100

91 212.7 152.9 283.9



#60

1,2,3-Trichloropropane

Concen: 4.826 ug/L

RT: 11.813 min Scan# 3257

Delta R.T. 0.984 min

Lab File: VU045098.D

Acq: 04 Oct 2021 15:59

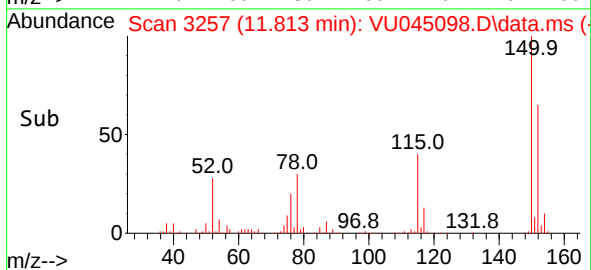
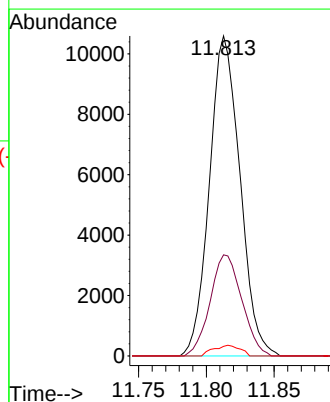
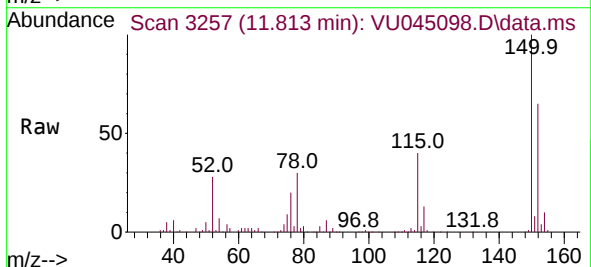
Tgt Ion: 75 Resp: 16583

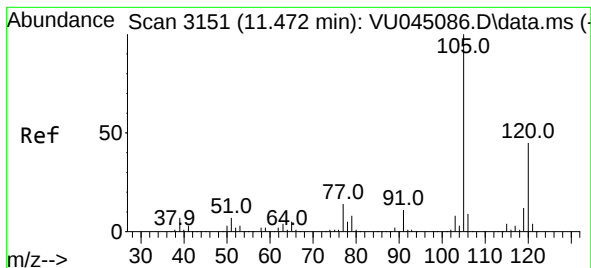
Ion Ratio Lower Upper

75 100

77 32.8 25.5 38.3

110 2.9 29.0 43.4#

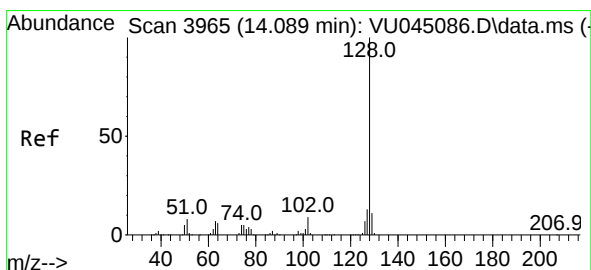
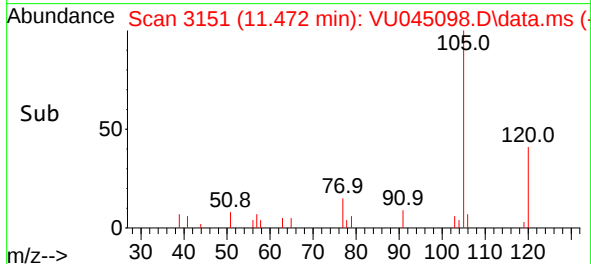
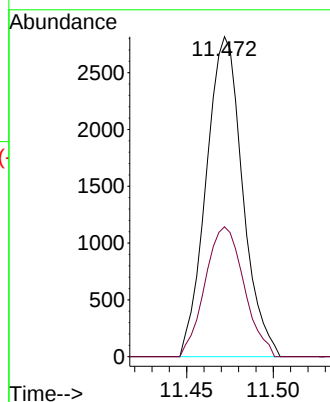
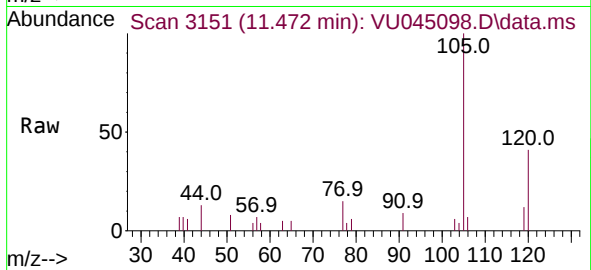




#63
1,2,4-Trimethylbenzene
Concen: 0.529 ug/L
RT: 11.472 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

Instrument :
MSVOA_U
ClientSampleId :
F4A22

Tgt Ion:105 Resp: 4117
Ion Ratio Lower Upper
105 100
120 43.4 35.7 53.5



#71
Naphthalene
Concen: 1.424 ug/L
RT: 14.089 min Scan# 3965
Delta R.T. 0.000 min
Lab File: VU045098.D
Acq: 04 Oct 2021 15:59

Tgt Ion:128 Resp: 11954
Ion Ratio Lower Upper
128 100
127 12.1 10.4 15.6
129 10.2 8.8 13.2

