

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
 Data File : VU047659.D
 Acq On : 25 Mar 2022 01:40
 Operator : SY/MD
 Sample : N2081-18
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 25 05:31:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 24 23:34:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	347760	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	352887	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	202263	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	97202	38.544	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.080%
7) Chloroethane-d5	1.919	69	78887	39.672	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.340%
11) 1,1-Dichloroethene-d2	2.572	63	167268	36.253	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.500%
21) 2-Butanone-d5	4.642	46	210843	97.408	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.410%
24) Chloroform-d	5.067	84	188185	40.783	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.560%
26) 1,2-Dichloroethane-d4	5.703	65	120986	42.751	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.500%
32) Benzene-d6	5.729	84	387977	43.693	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.380%
36) 1,2-Dichloropropane-d6	6.694	67	122196	44.809	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.620%
41) Toluene-d8	7.899	98	367166	42.440	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.880%
43) trans-1,3-Dichloroprop...	8.182	79	58213	42.136	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.280%
47) 2-Hexanone-d5	8.636	63	147782	92.572	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.570%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	197249	42.147	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.300%
66) 1,2-Dichlorobenzene-d4	12.192	152	167439	46.531	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.060%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	90566	28.800	ug/L	99
8) Chloroethane	1.938	64	141068	71.461	ug/L	98
9) Trichlorofluoromethane	2.144	101	3797	0.856	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	1485	0.579	ug/L #	18
12) 1,1-Dichloroethene	2.584	96	59890	25.106	ug/L	86
13) Acetone	2.662	43	4849	2.407	ug/L	84
17) trans-1,2-Dichloroethene	3.359	96	25031	9.728	ug/L	94
19) 1,1-Dichloroethane	3.874	63	2115521	476.737	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	4403928	1561.243	ug/L	94
22) 2-Butanone	4.726	43	4593	1.770	ug/L #	43
27) 1,2-Dichloroethane	5.797	62	17873	4.842	ug/L	99
30) 1,1,1-Trichloroethane	5.321	97	2154183	538.361	ug/L	100
31) Carbon tetrachloride	5.321	117	297525	82.343	ug/L	100
33) Benzene	5.777	78	15116	1.480	ug/L	100
34) Trichloroethene	6.546	95	29728	11.101	ug/L	99
35) Methylcyclohexane	6.764	83	6645	1.631	ug/L	97
37) 1,2-Dichloropropane	6.694	63	13390	5.157	ug/L #	87
40) 4-Methyl-2-pentanone	7.796	43	12129	2.955	ug/L	99
42) Toluene	7.970	91	129108	11.520	ug/L	99

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

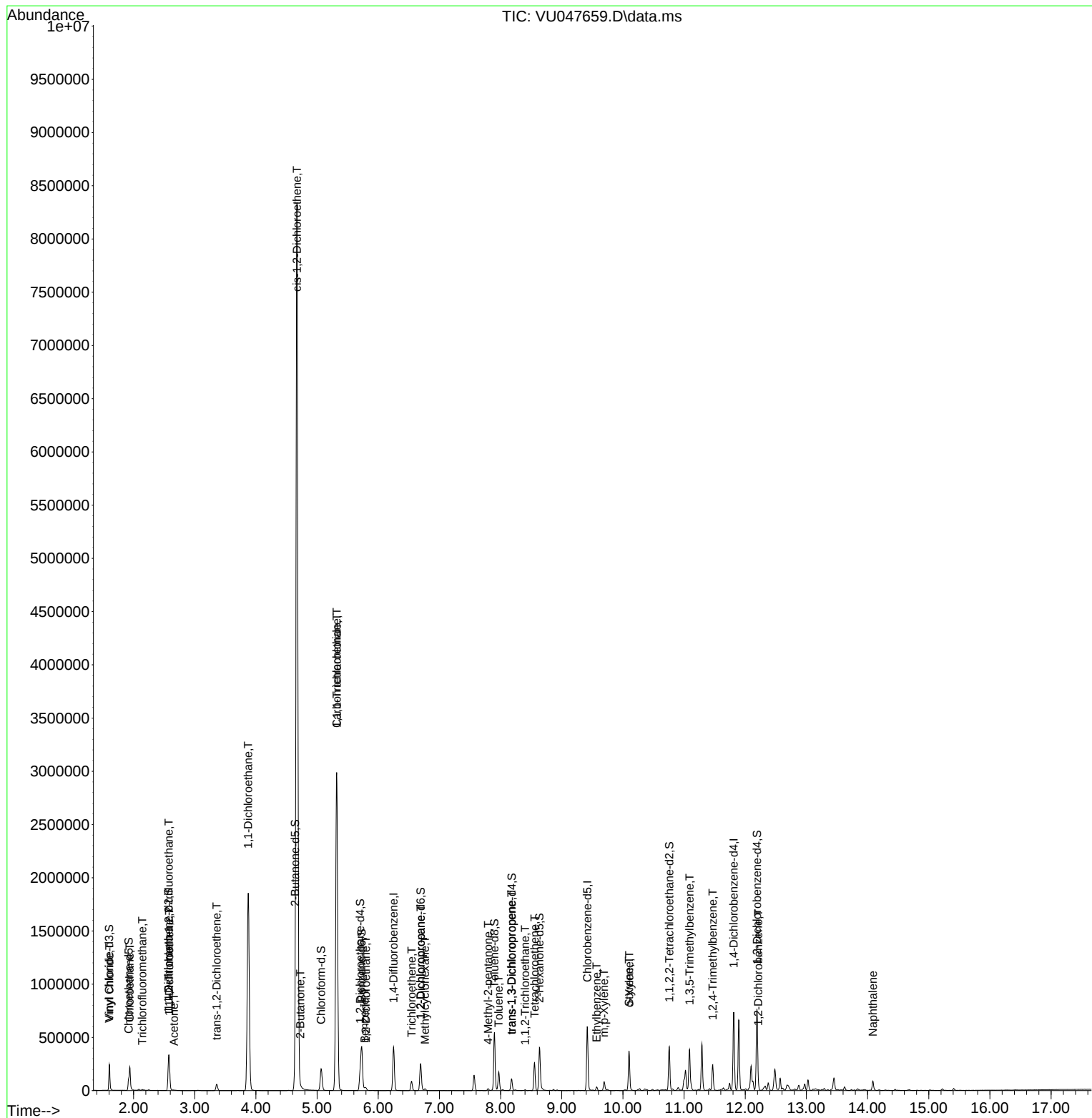
44) trans-1,3-Dichloropropene	8.179	75	2546	0.633	ug/L #	78
45) 1,1,2-Trichloroethane	8.401	97	3279	1.191	ug/L	93
46) Tetrachloroethene	8.555	164	60157	24.998	ug/L	98
52) Ethylbenzene	9.571	91	24361	2.067	ug/L	98
53) m,p-Xylene	9.694	106	23735	5.133	ug/L	97
54) o-Xylene	10.102	106	103558	22.819	ug/L	99
55) Styrene	10.099	104	5714	0.737	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.089	105	211173	35.605	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	130665	14.504	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	5800	0.954	ug/L #	92
71) Naphthalene	14.086	128	73067	5.670	ug/L	98

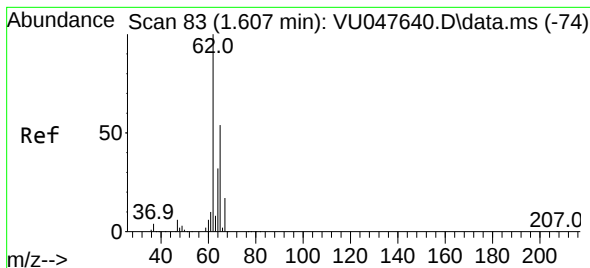
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 28.800 ug/L

RT: 1.607 min Scan# 81

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Instrument :

MSVOA_U

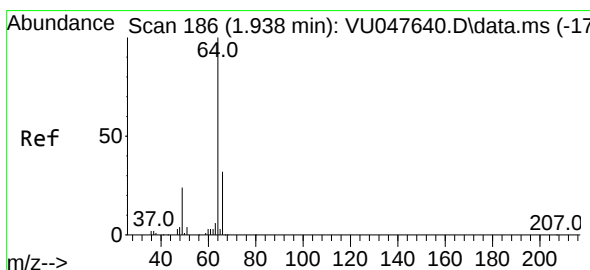
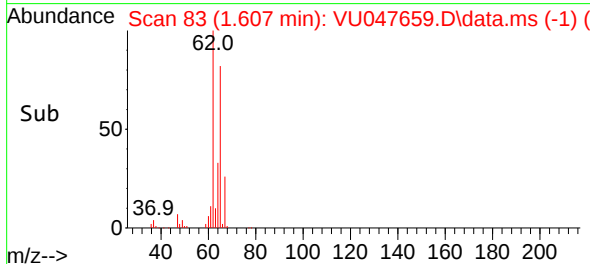
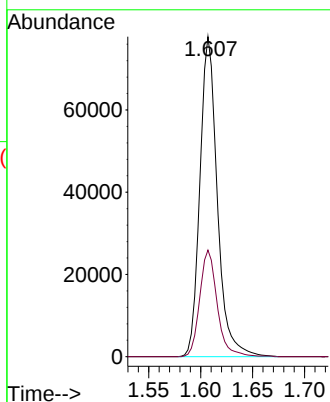
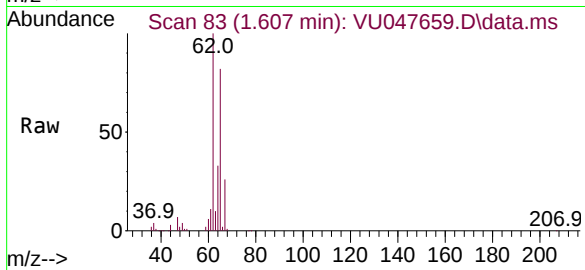
ClientSampleId :

Tgt Ion: 62 Resp: 90566

Ion Ratio Lower Upper

62 100

64 33.3 23.7 43.9



#8

Chloroethane

Concen: 71.461 ug/L

RT: 1.938 min Scan# 186

Delta R.T. 0.000 min

Lab File: VU047659.D

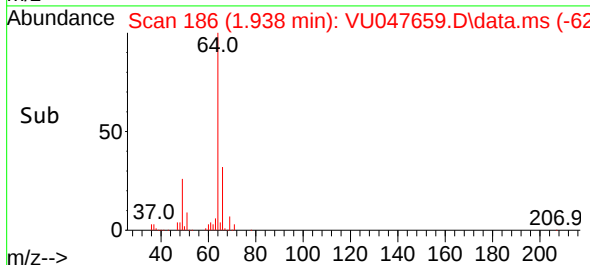
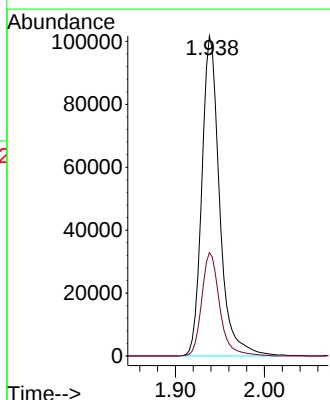
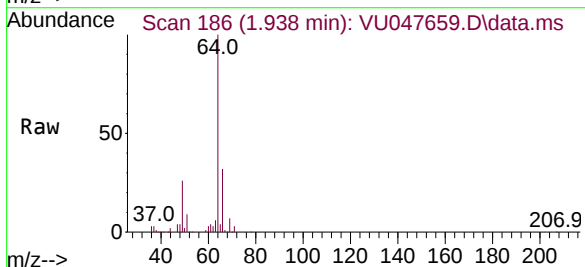
Acq: 25 Mar 2022 01:40

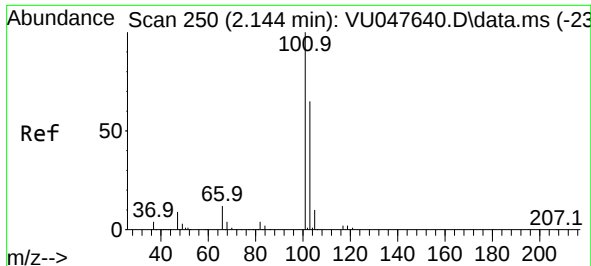
Tgt Ion: 64 Resp: 141068

Ion Ratio Lower Upper

64 100

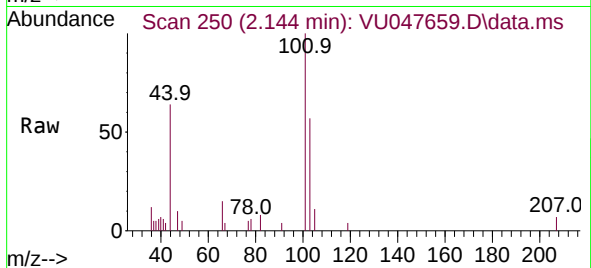
66 32.3 23.3 43.3



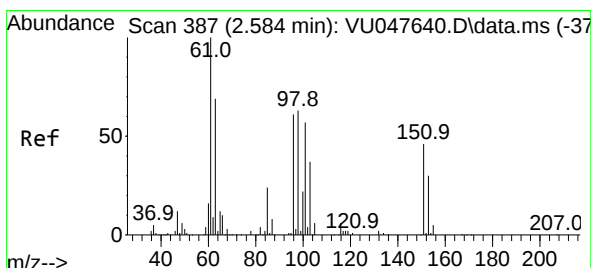
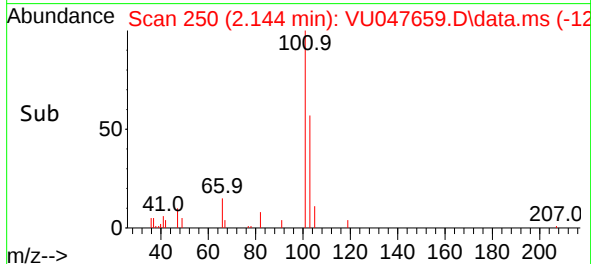
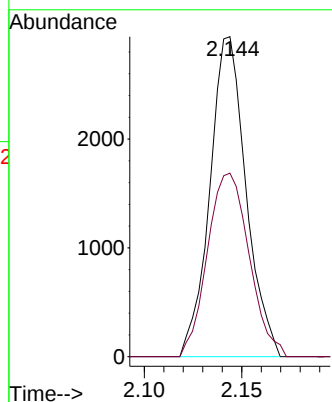


#9
 Trichlorofluoromethane
 Concen: 0.856 ug/L
 RT: 2.144 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VU047659.D
 Acq: 25 Mar 2022 01:40

Instrument :
 MSVOA_U
 ClientSampleId :

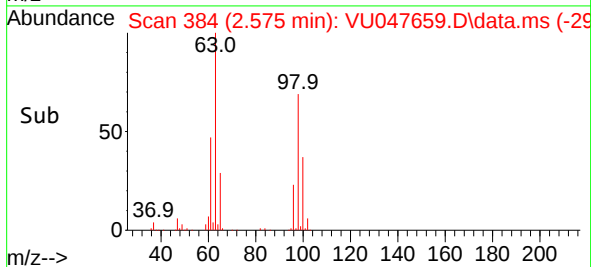
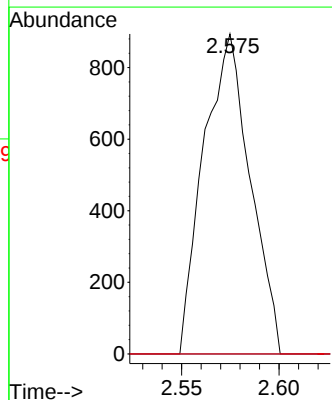
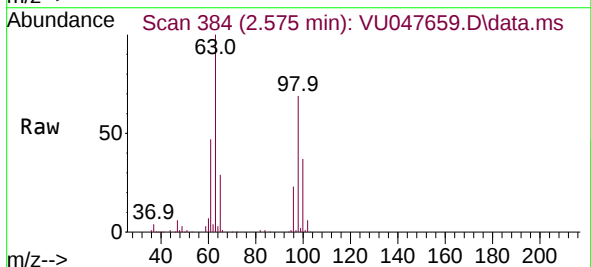


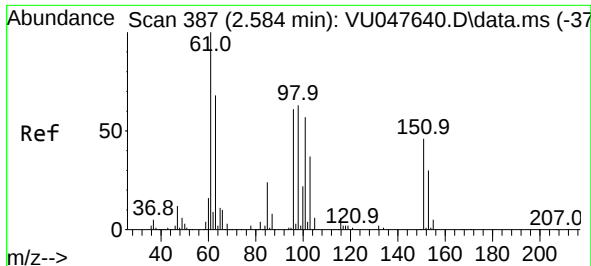
Tgt Ion:101 Resp: 3797
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.4 77.2



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.579 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.010 min
 Lab File: VU047659.D
 Acq: 25 Mar 2022 01:40

Tgt Ion:101 Resp: 1485
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.8 49.2#
 151 0.0 63.0 94.6#

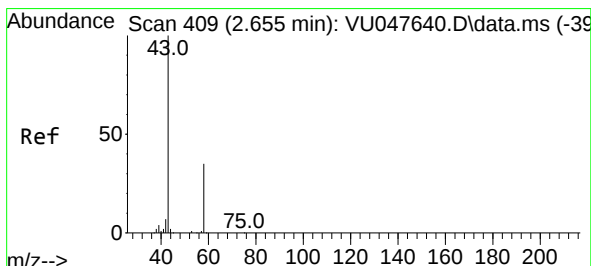
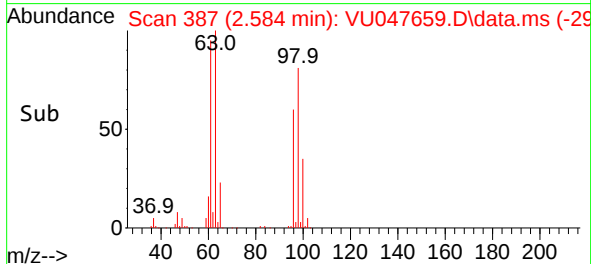
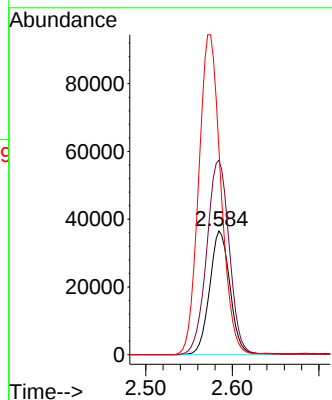
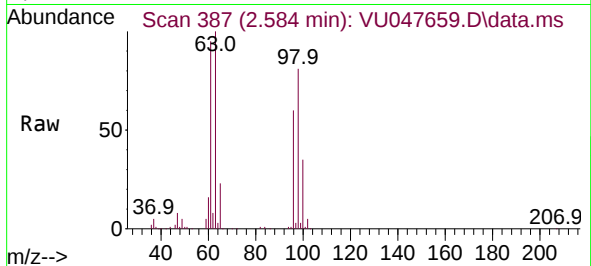




#12
1,1-Dichloroethene
Concen: 25.106 ug/L
RT: 2.584 min Scan# 312
Delta R.T. 0.000 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

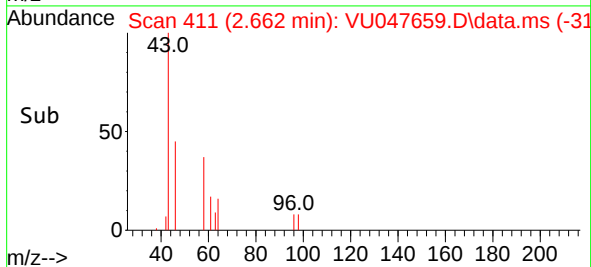
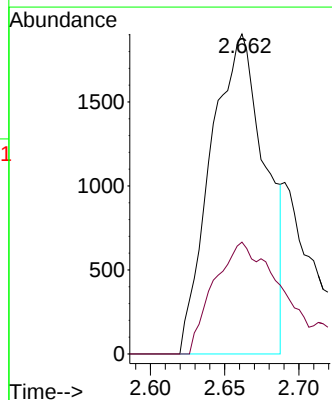
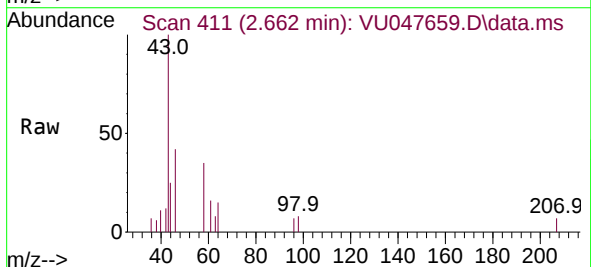
Instrument :
MSVOA_U
ClientSampleId :

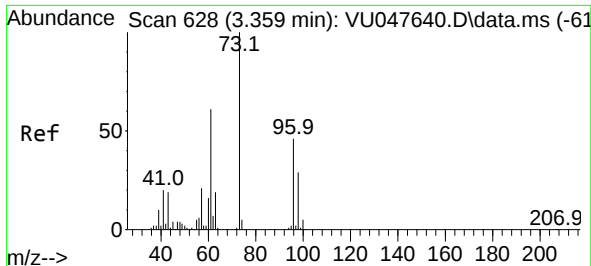
Tgt Ion: 96 Resp: 59890
Ion Ratio Lower Upper
96 100
61 157.1 113.1 210.1
63 166.1 94.8 176.0



#13
Acetone
Concen: 2.407 ug/L
RT: 2.662 min Scan# 411
Delta R.T. 0.007 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

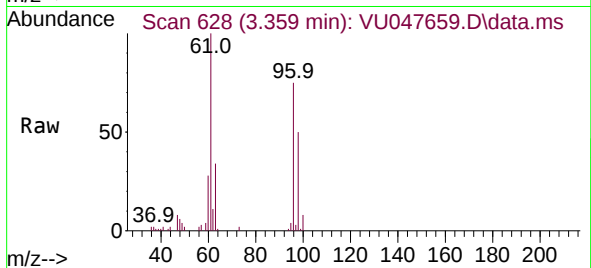
Tgt Ion: 43 Resp: 4849
Ion Ratio Lower Upper
43 100
58 25.9 0.0 70.0



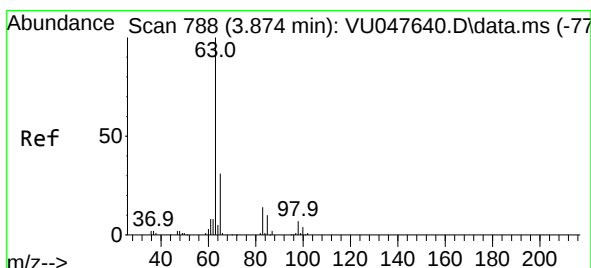
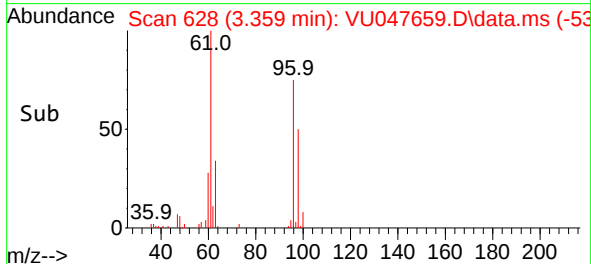
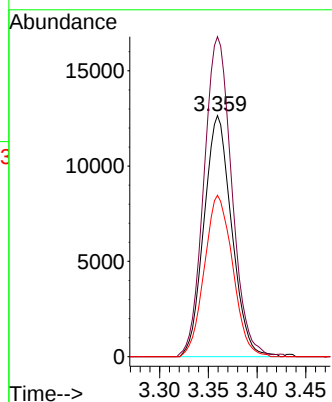


#17
trans-1,2-Dichloroethene
Concen: 9.728 ug/L
RT: 3.359 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

Instrument :
MSVOA_U
ClientSampleId :

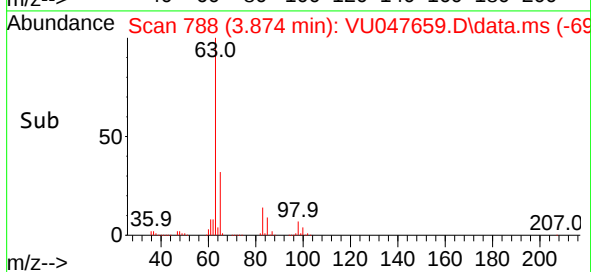
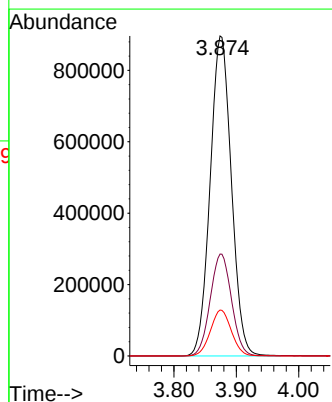
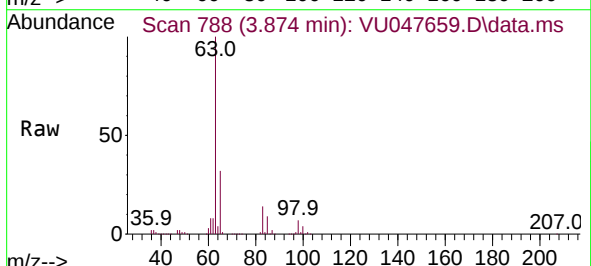


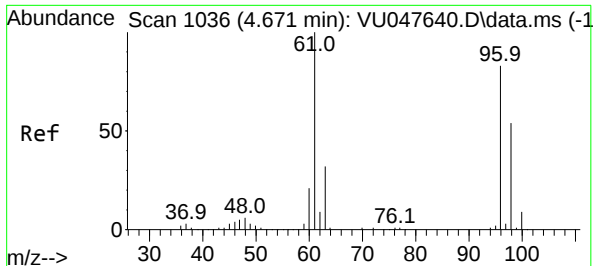
Tgt Ion: 96 Resp: 25031
Ion Ratio Lower Upper
96 100
61 132.7 88.4 164.2
98 67.0 43.3 80.5



#19
1,1-Dichloroethane
Concen: 476.737 ug/L
RT: 3.874 min Scan# 788
Delta R.T. 0.000 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

Tgt Ion: 63 Resp: 2115521
Ion Ratio Lower Upper
63 100
65 31.8 22.0 41.0
83 14.4 9.7 18.1





#20

cis-1,2-Dichloroethene

Concen: 1561.243 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

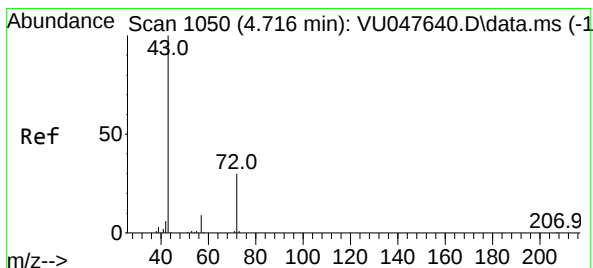
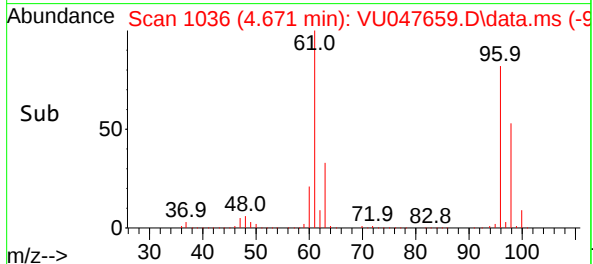
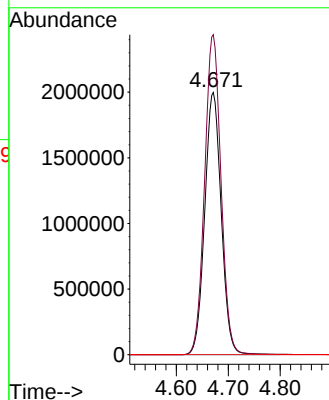
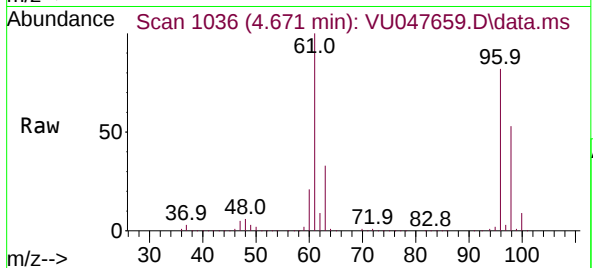
Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 96 Resp: 4403928

Ion	Ratio	Lower	Upper
96	100		
61	122.0	80.7	149.9
68	0.0	0.0	0.0



#22

2-Butanone

Concen: 1.770 ug/L

RT: 4.726 min Scan# 1053

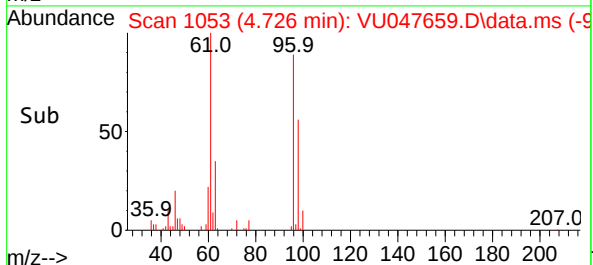
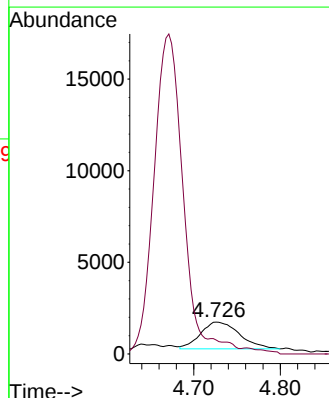
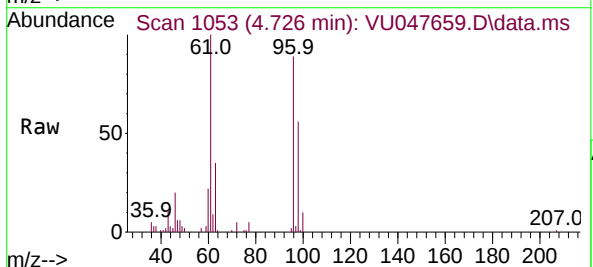
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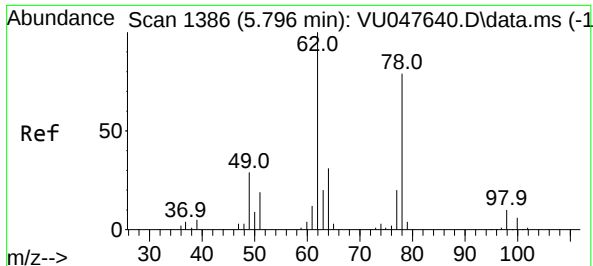
Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Tgt Ion: 43 Resp: 4593

Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.0	47.9#





#27

1,2-Dichloroethane

Concen: 4.842 ug/L

RT: 5.797 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Instrument :

MSVOA_U

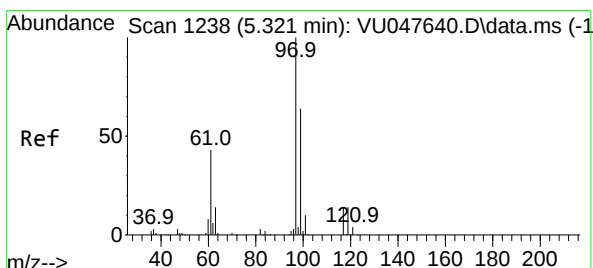
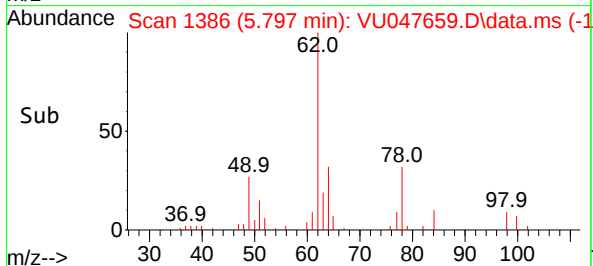
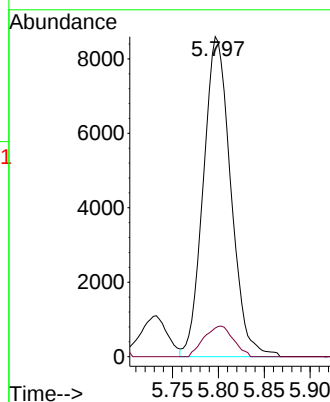
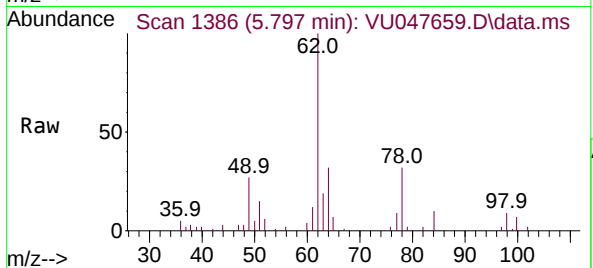
ClientSampleId :

Tgt Ion: 62 Resp: 17873

Ion Ratio Lower Upper

62 100

98 9.0 7.4 11.0



#30

1,1,1-Trichloroethane

Concen: 538.361 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

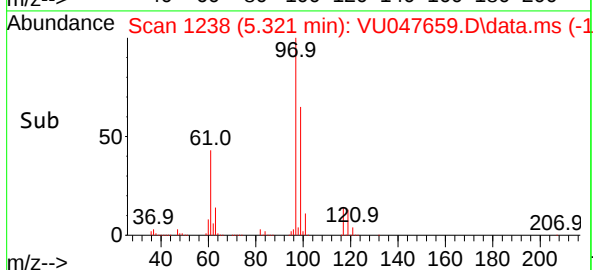
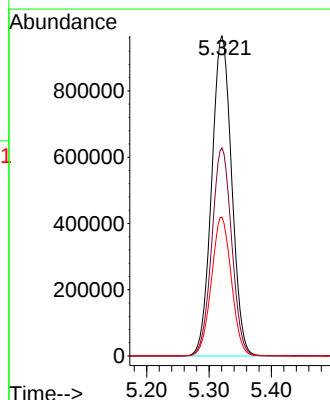
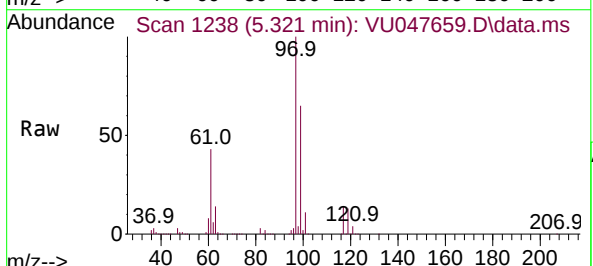
Tgt Ion: 97 Resp: 2154183

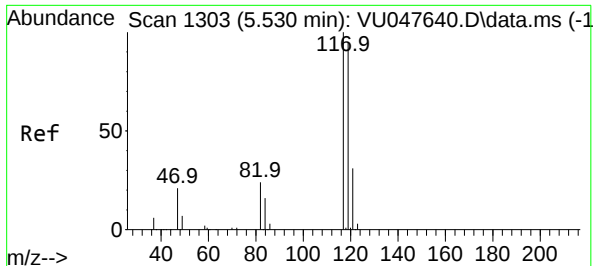
Ion Ratio Lower Upper

97 100

99 64.7 51.6 77.4

61 43.2 34.2 51.4

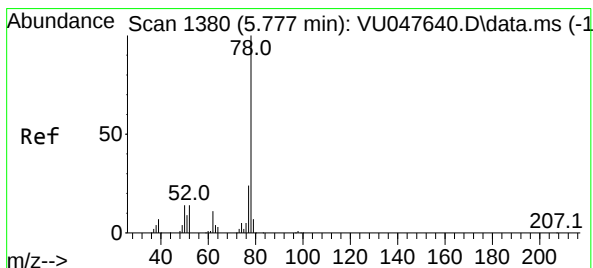
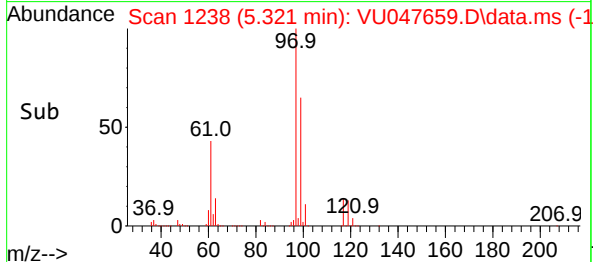
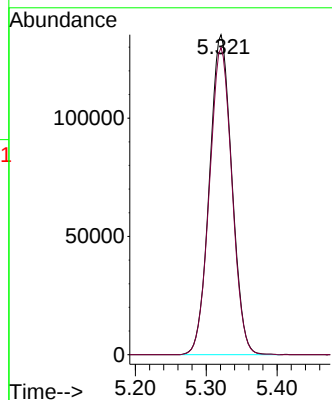
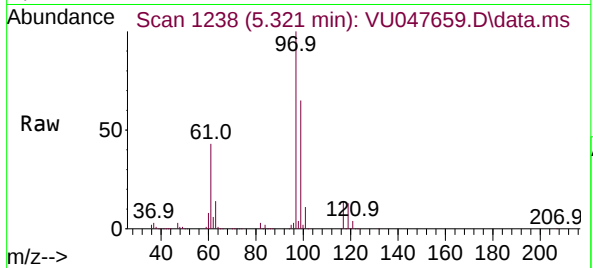




#31
Carbon tetrachloride
Concen: 82.343 ug/L
RT: 5.321 min Scan# 117
Delta R.T. -0.209 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

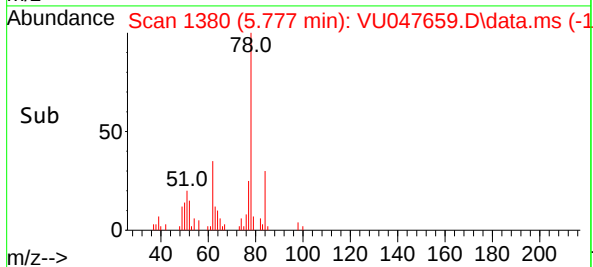
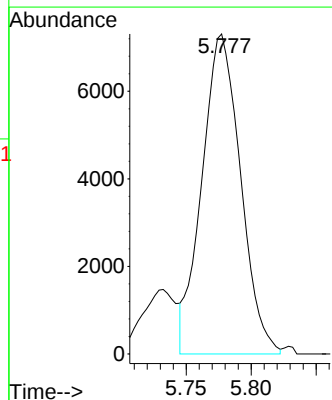
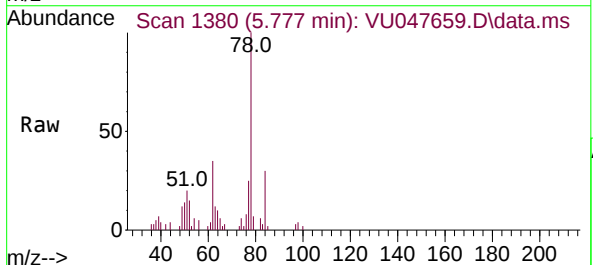
Instrument :
MSVOA_U
ClientSampleId :

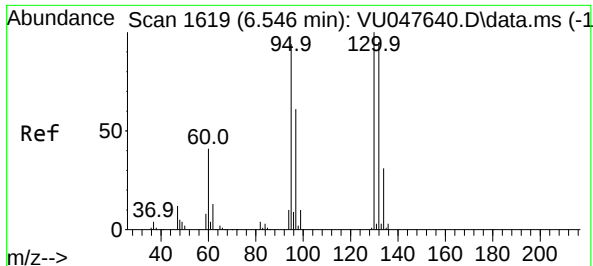
Tgt Ion:117 Resp: 297525
Ion Ratio Lower Upper
117 100
119 96.3 77.2 115.8



#33
Benzene
Concen: 1.480 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

Tgt Ion: 78 Resp: 15116





#34

Trichloroethene

Concen: 11.101 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 29728

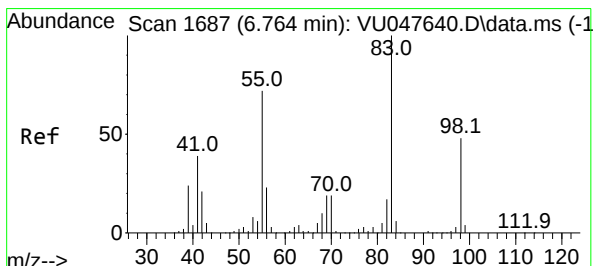
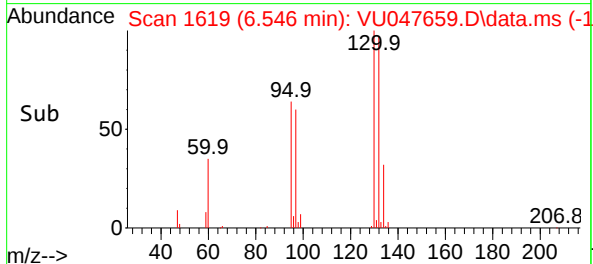
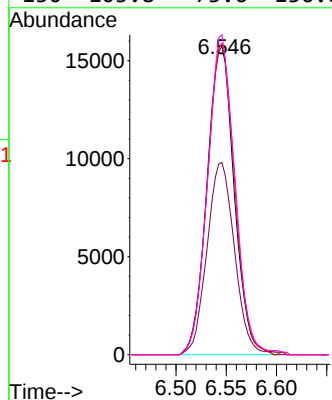
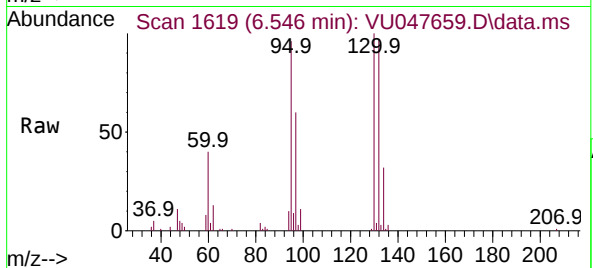
Ion Ratio Lower Upper

95 100

97 62.3 44.7 82.9

132 100.9 70.4 130.8

130 103.8 73.6 136.8



#35

Methylcyclohexane

Concen: 1.631 ug/L

RT: 6.764 min Scan# 1687

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

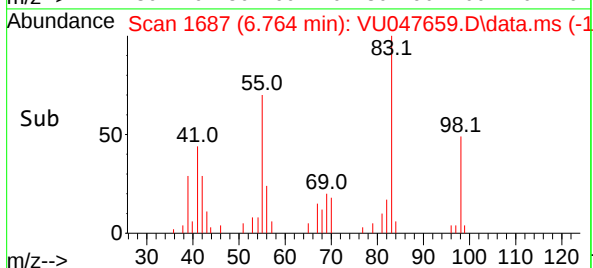
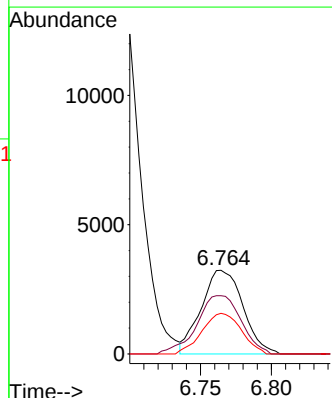
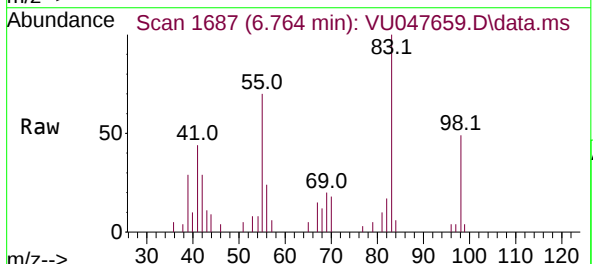
Tgt Ion: 83 Resp: 6645

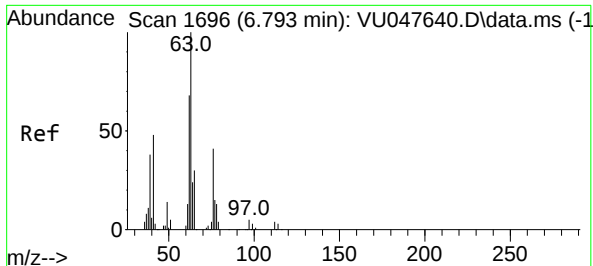
Ion Ratio Lower Upper

83 100

55 73.6 56.8 85.2

98 45.5 38.1 57.1





#37

1,2-Dichloropropane

Concen: 5.157 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Instrument :

MSVOA_U

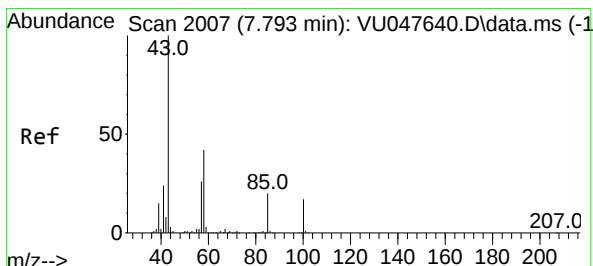
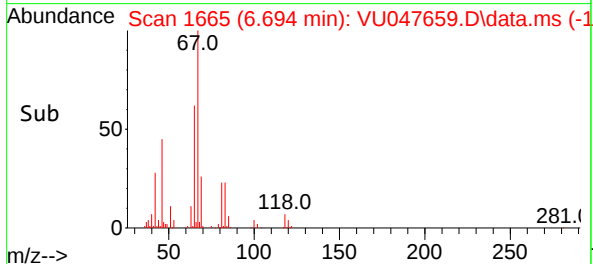
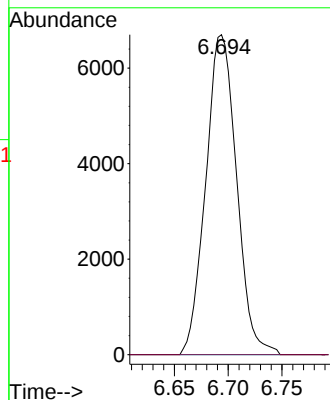
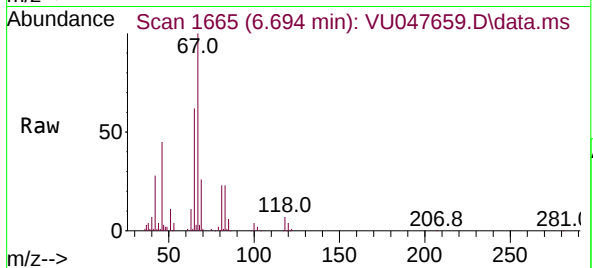
ClientSampleId :

Tgt Ion: 63 Resp: 13390

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#



#40

4-Methyl-2-pentanone

Concen: 2.955 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.003 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

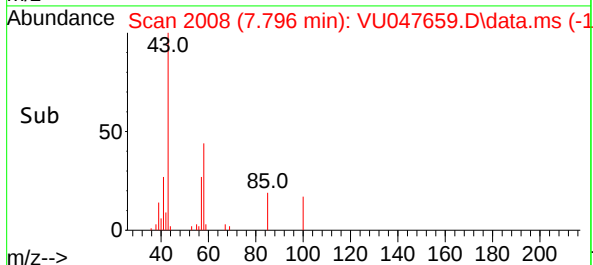
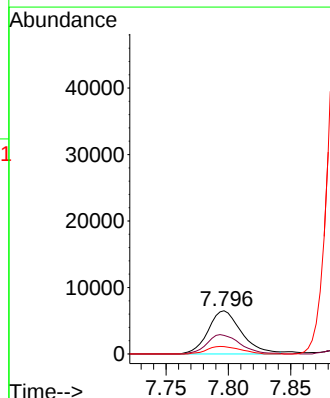
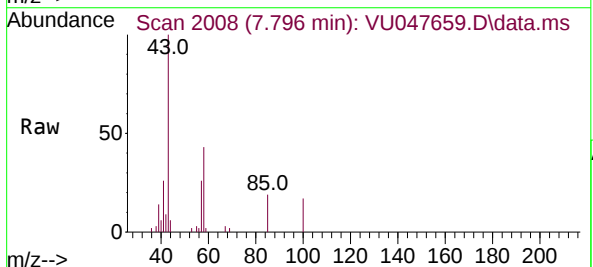
Tgt Ion: 43 Resp: 12129

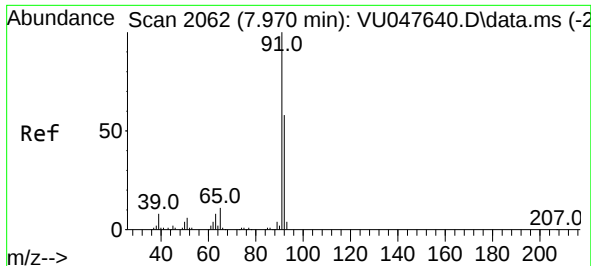
Ion Ratio Lower Upper

43 100

58 44.0 34.7 52.1

100 17.4 14.2 21.2





#42

Toluene

Concen: 11.520 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Instrument :

MSVOA_U

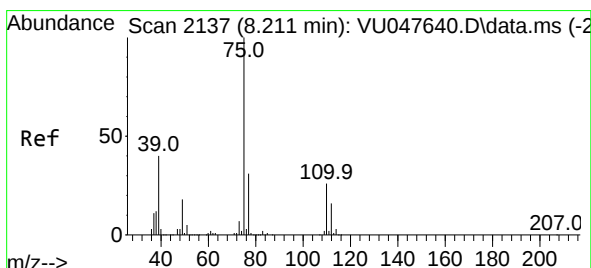
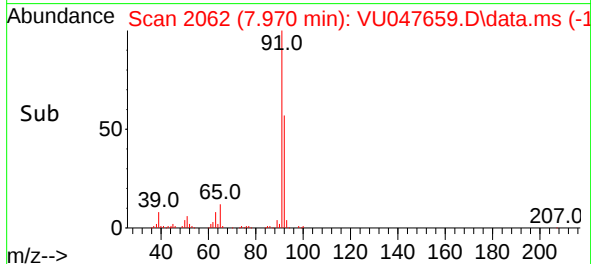
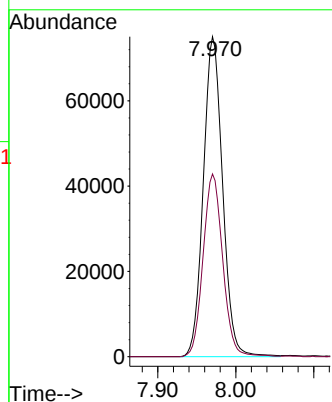
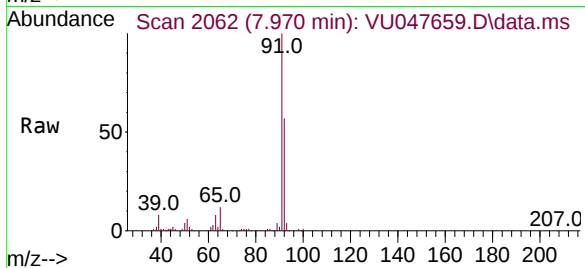
ClientSampleId :

Tgt Ion: 91 Resp: 129108

Ion Ratio Lower Upper

91 100

92 57.1 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 0.633 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.032 min

Lab File: VU047659.D

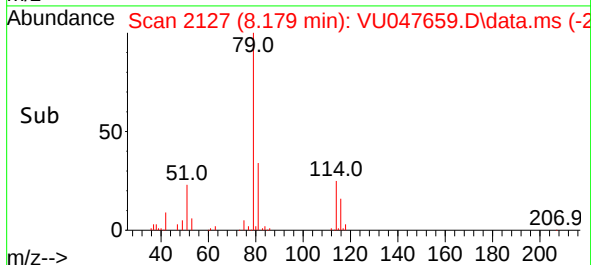
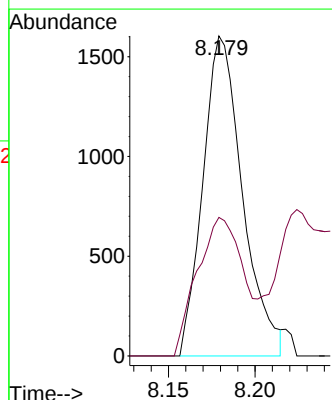
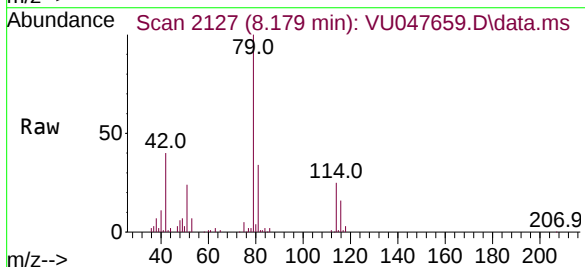
Acq: 25 Mar 2022 01:40

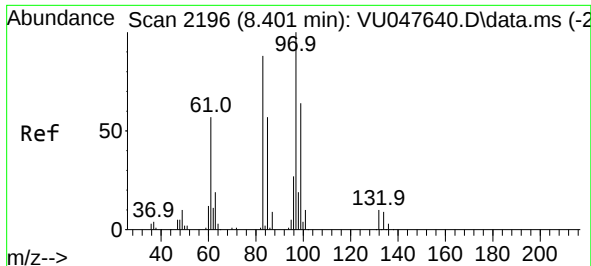
Tgt Ion: 75 Resp: 2546

Ion Ratio Lower Upper

75 100

77 43.3 22.0 40.8#

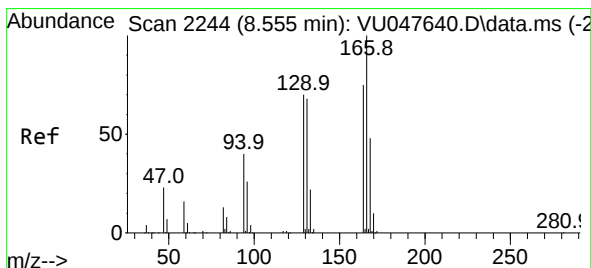
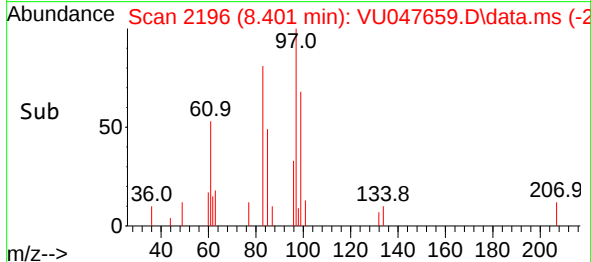
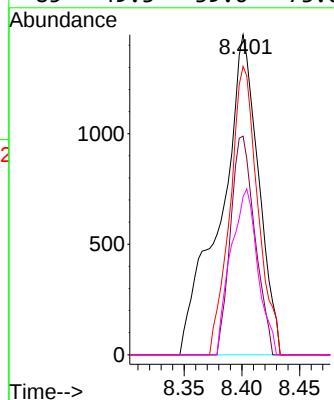
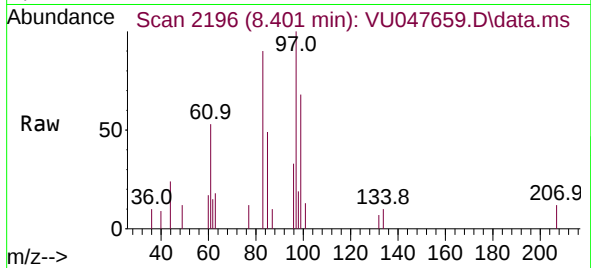




#45
1,1,2-Trichloroethane
Concen: 1.191 ug/L
RT: 8.401 min Scan# 2196
Delta R.T. 0.000 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

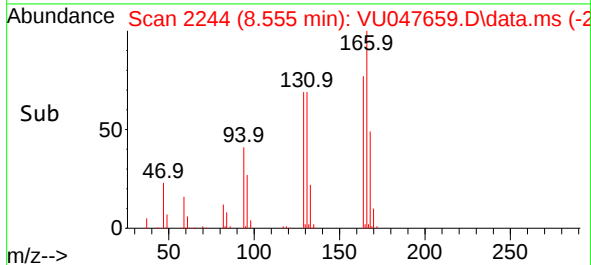
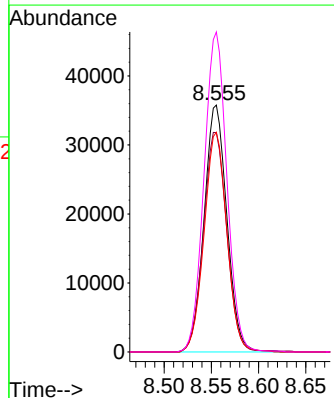
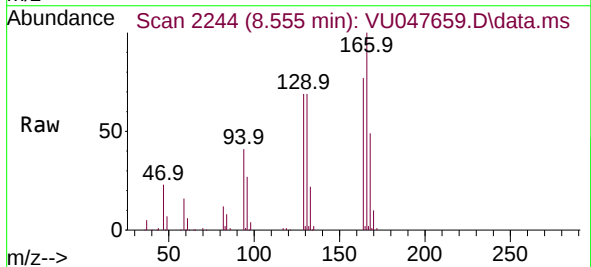
Instrument :
MSVOA_U
ClientSampleId :

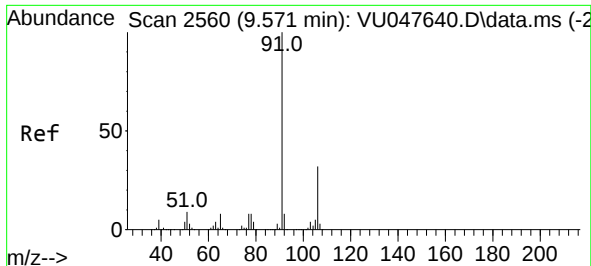
Tgt Ion: 97	Resp: 3279
Ion Ratio	Lower Upper
97 100	
99 68.3	43.3 80.3
83 90.1	61.0 113.4
85 49.3	39.6 73.6



#46
Tetrachloroethene
Concen: 24.998 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

Tgt Ion:164	Resp: 60157
Ion Ratio	Lower Upper
164 100	
129 88.8	62.4 116.0
131 89.0	60.7 112.7
166 129.6	89.0 165.4





#52

Ethylbenzene

Concen: 2.067 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Instrument :

MSVOA_U

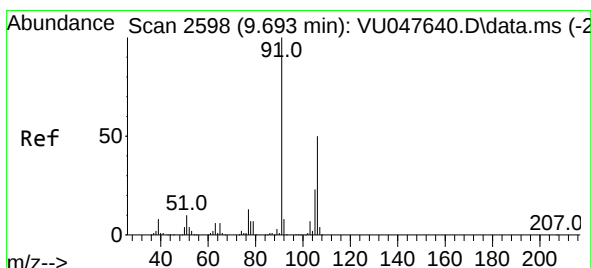
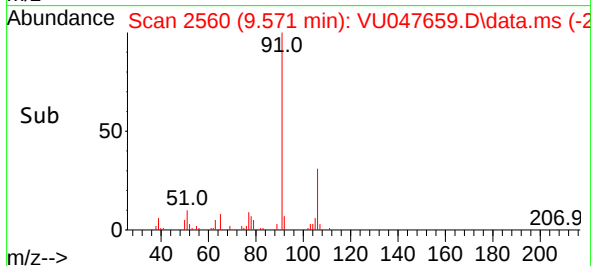
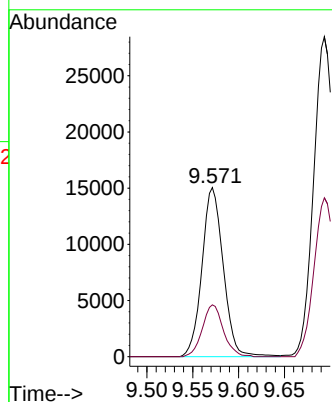
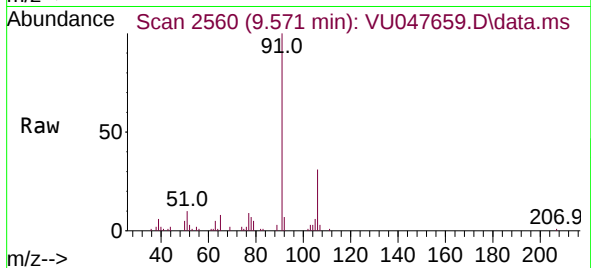
ClientSampleId :

Tgt Ion: 91 Resp: 24361

Ion Ratio Lower Upper

91 100

106 30.6 22.4 41.6



#53

m,p-Xylene

Concen: 5.133 ug/L

RT: 9.694 min Scan# 2598

Delta R.T. 0.000 min

Lab File: VU047659.D

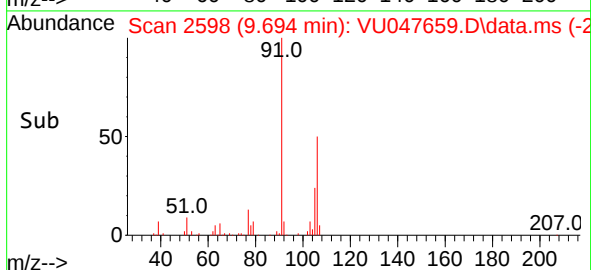
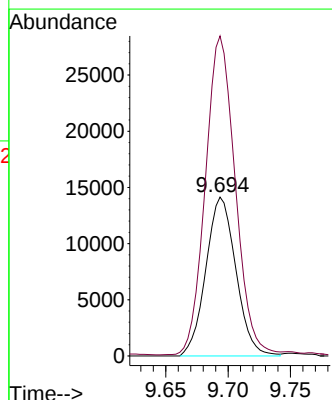
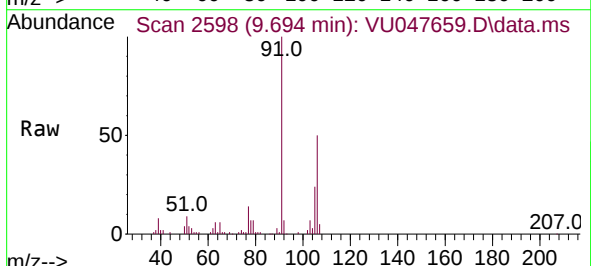
Acq: 25 Mar 2022 01:40

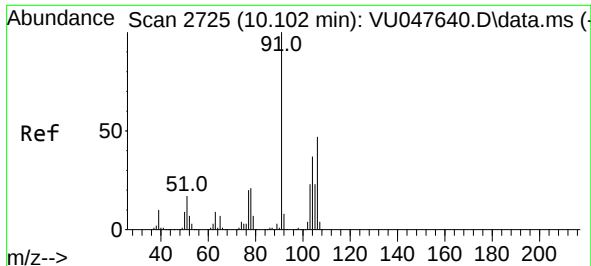
Tgt Ion: 106 Resp: 23735

Ion Ratio Lower Upper

106 100

91 201.4 137.7 255.7

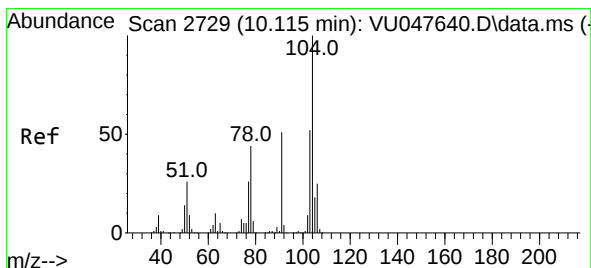
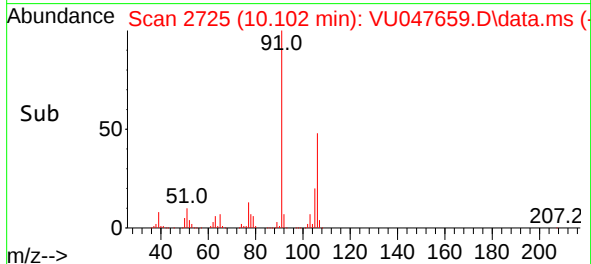
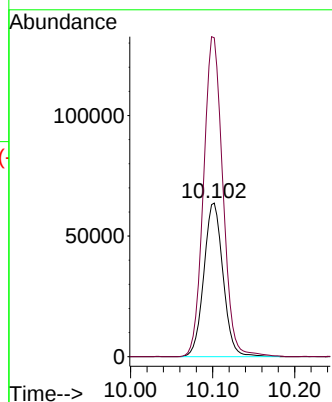
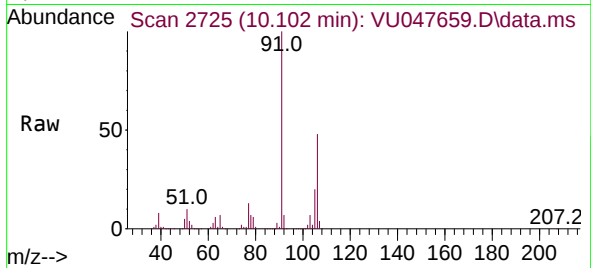




#54
o-Xylene
Concen: 22.819 ug/L
RT: 10.102 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

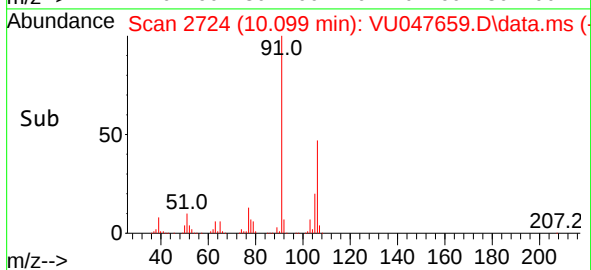
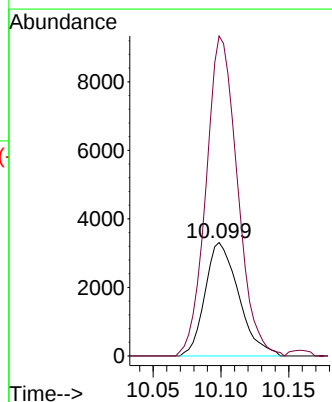
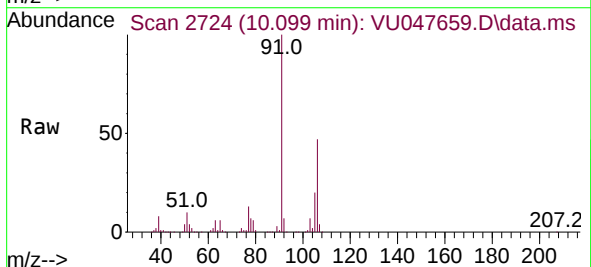
Instrument :
MSVOA_U
ClientSampleId :

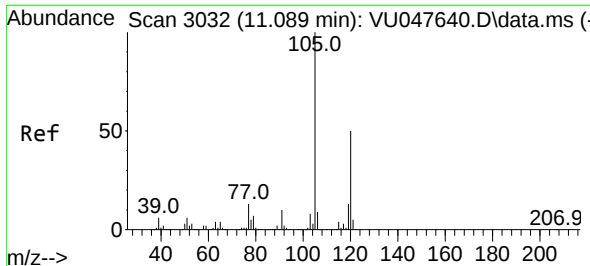
Tgt Ion:106 Resp: 103558
Ion Ratio Lower Upper
106 100
91 207.6 146.7 272.5



#55
Styrene
Concen: 0.737 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. -0.016 min
Lab File: VU047659.D
Acq: 25 Mar 2022 01:40

Tgt Ion:104 Resp: 5714
Ion Ratio Lower Upper
104 100
78 282.0 30.4 56.4#

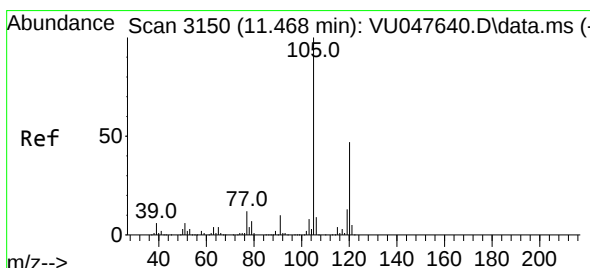
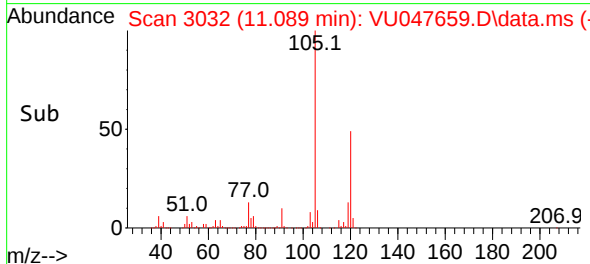
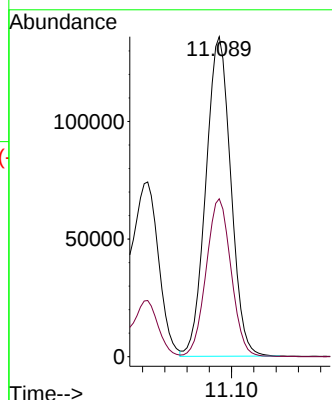
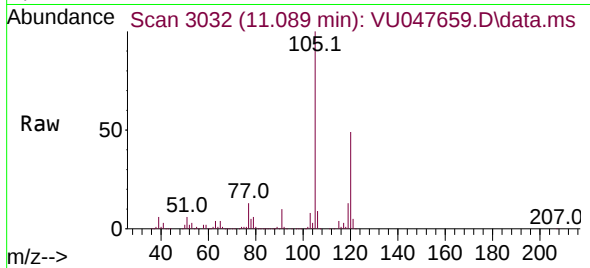




#62
 1,3,5-Trimethylbenzene
 Concen: 35.605 ug/L
 RT: 11.089 min Scan# 3032
 Delta R.T. 0.000 min
 Lab File: VU047659.D
 Acq: 25 Mar 2022 01:40

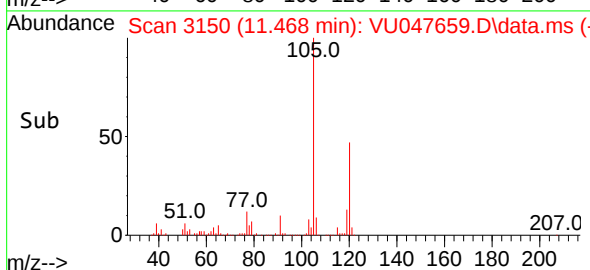
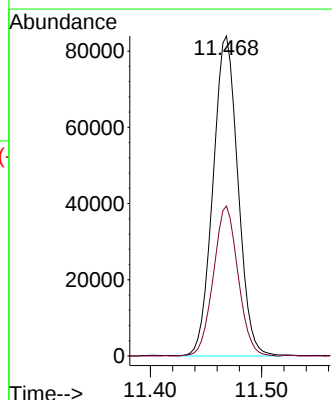
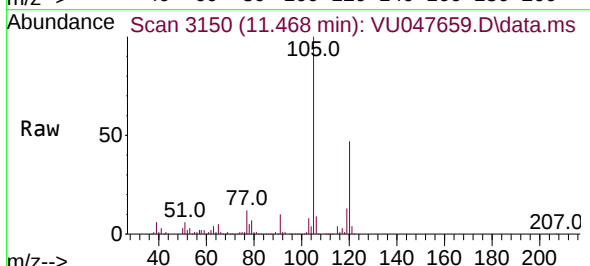
Instrument :
 MSVOA_U
 ClientSampleId :

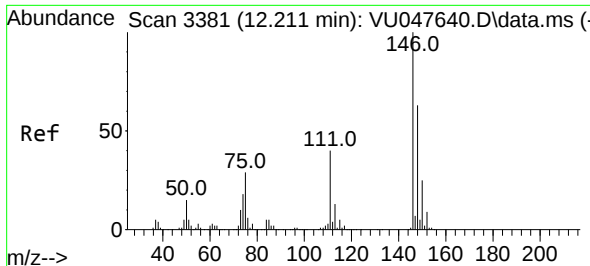
Tgt Ion:105 Resp: 211173
 Ion Ratio Lower Upper
 105 100
 120 49.6 40.8 61.2



#63
 1,2,4-Trimethylbenzene
 Concen: 14.504 ug/L
 RT: 11.468 min Scan# 3150
 Delta R.T. 0.000 min
 Lab File: VU047659.D
 Acq: 25 Mar 2022 01:40

Tgt Ion:105 Resp: 130665
 Ion Ratio Lower Upper
 105 100
 120 46.3 37.6 56.4





#67

1,2-Dichlorobenzene

Concen: 0.954 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. 0.000 min

Lab File: VU047659.D

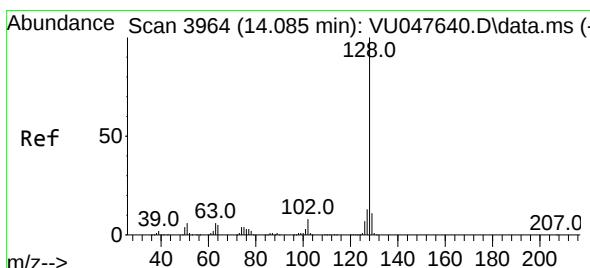
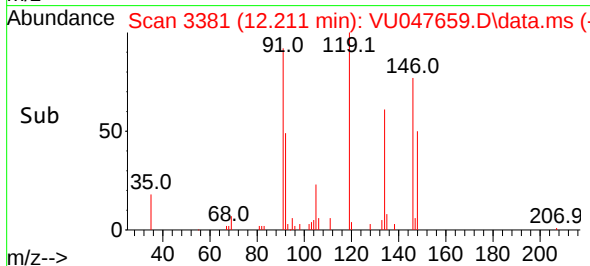
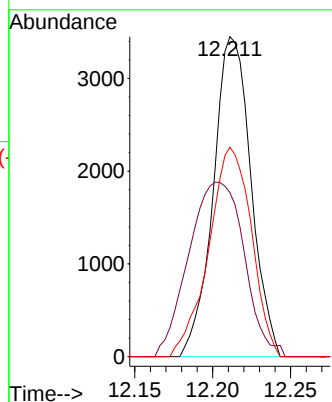
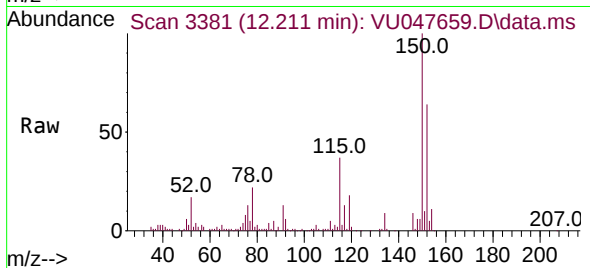
Acq: 25 Mar 2022 01:40

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:146	Resp:	5800
Ion Ratio	Lower	Upper
146	100	
111	51.3	31.7 47.5#
148	65.5	51.4 77.2



#71

Naphthalene

Concen: 5.670 ug/L

RT: 14.086 min Scan# 3964

Delta R.T. 0.000 min

Lab File: VU047659.D

Acq: 25 Mar 2022 01:40

Tgt Ion:128	Resp:	73067
Ion Ratio	Lower	Upper
128	100	
127	13.7	10.2 15.2
129	10.7	8.8 13.2

