

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032422\
 Data File : VU047644.D
 Acq On : 24 Mar 2022 20:00
 Operator : SY/MD
 Sample : N2081-03
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 24 23:49:16 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	70136	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	75481	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	43606	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	33708	66.276	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	= 132.560%	
7) Chloroethane-d5	1.919	69	26351	65.708	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	= 131.420%#	
11) 1,1-Dichloroethene-d2	2.572	63	48400	52.013	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 104.020%	
21) 2-Butanone-d5	4.645	46	61702	141.342	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	= 141.340%#	
24) Chloroform-d	5.067	84	61804	66.413	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 132.820%#	
26) 1,2-Dichloroethane-d4	5.703	65	39993	70.070	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 140.140%#	
32) Benzene-d6	5.729	84	125028	65.828	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 131.660%#	
36) 1,2-Dichloropropane-d6	6.694	67	38857	66.616	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	= 133.240%#	
41) Toluene-d8	7.899	98	109168	58.994	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 117.980%	
43) trans-1,3-Dichloroprop...	8.182	79	17633	59.670	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 119.340%	
47) 2-Hexanone-d5	8.639	63	38639	113.158	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	= 113.160%	
56) 1,1,2,2-Tetrachloroeth...	10.758	84	62411	62.346	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	= 124.700%#	
66) 1,2-Dichlorobenzene-d4	12.195	152	51446	66.314	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 132.620%#	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	7390	11.652	ug/L	91
8) Chloroethane	1.938	64	30609	76.883	ug/L	97
9) Trichlorofluoromethane	2.147	101	1039	1.162	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	511	0.989	ug/L #	18
12) 1,1-Dichloroethene	2.588	96	7868	16.354	ug/L #	30
13) Acetone	2.662	43	1840	4.529	ug/L	82
14) Carbon disulfide	2.800	76	1557	1.024	ug/L #	81
17) trans-1,2-Dichloroethene	3.362	96	2131	4.107	ug/L	91
18) Methyl tert-butyl Ether	3.369	73	1936	1.322	ug/L	92
19) 1,1-Dichloroethane	3.877	63	209051	233.589	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	139286	244.837	ug/L	96
30) 1,1,1-Trichloroethane	5.321	97	766318	895.361	ug/L	99
31) Carbon tetrachloride	5.321	117	104643	135.398	ug/L	99
34) Trichloroethene	6.542	95	5713	9.974	ug/L	97
35) Methylcyclohexane	6.768	83	1396	1.602	ug/L #	86
37) 1,2-Dichloropropane	6.694	63	3872	6.971	ug/L #	87
39) cis-1,3-Dichloropropene	7.565	75	1175	1.363	ug/L #	76
42) Toluene	7.973	91	2852	1.190	ug/L	91
44) trans-1,3-Dichloropropene	8.179	75	724	0.841	ug/L #	73

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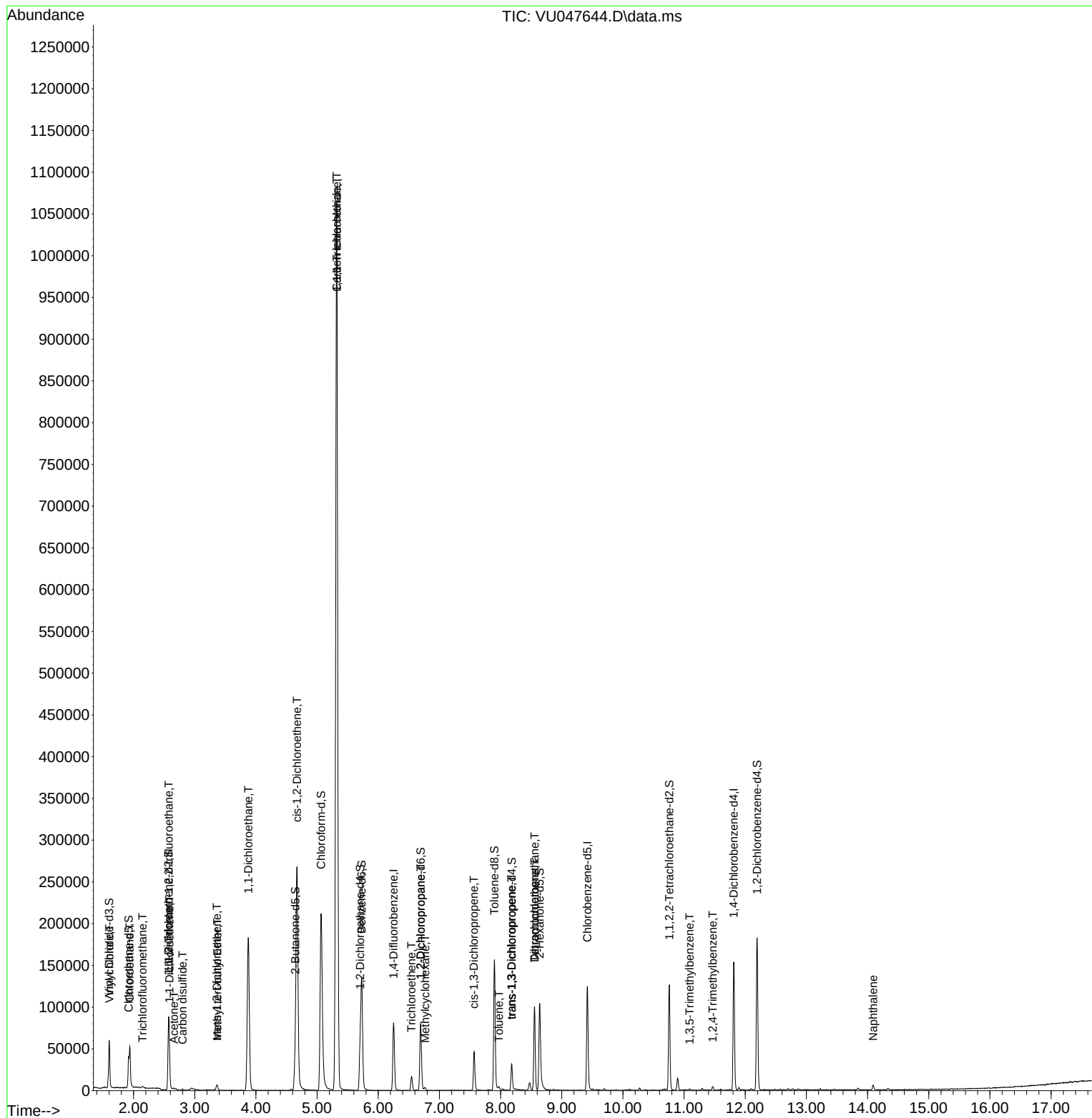
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	8.555	164	24337	47.281	ug/L	94
49) Dibromochloromethane	8.555	129	21289	31.204	ug/L #	11
62) 1,3,5-Trimethylbenzene	11.089	105	1237	0.967	ug/L	95
63) 1,2,4-Trimethylbenzene	11.468	105	2926	1.506	ug/L	90
71) Naphthalene	14.092	128	5602	2.016	ug/L	97

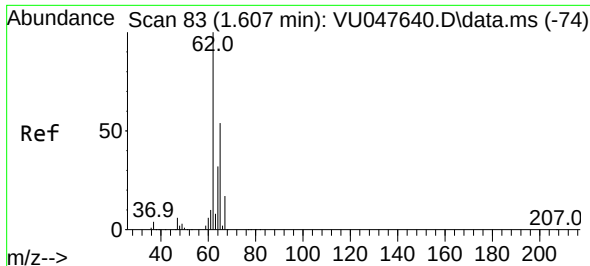
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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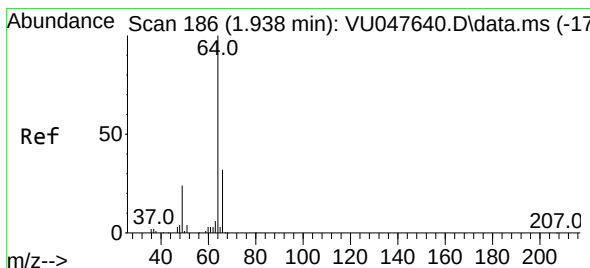
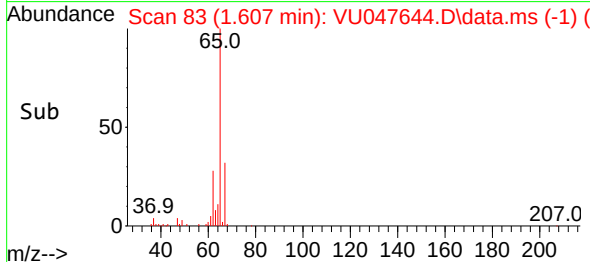
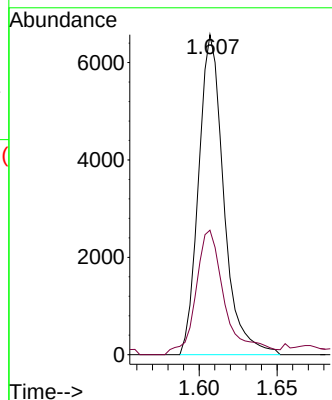
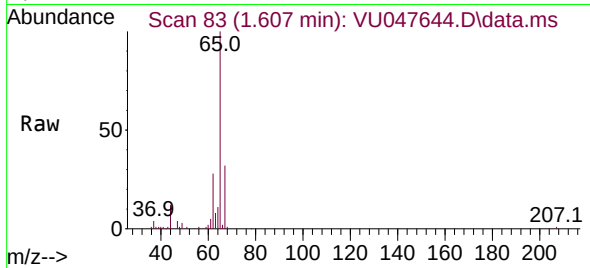




#5
 Vinyl chloride
 Concen: 11.652 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU047644.D
 Acq: 24 Mar 2022 20:00

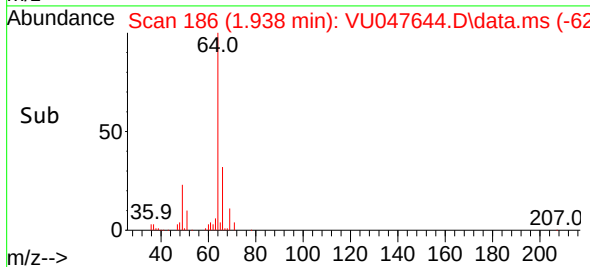
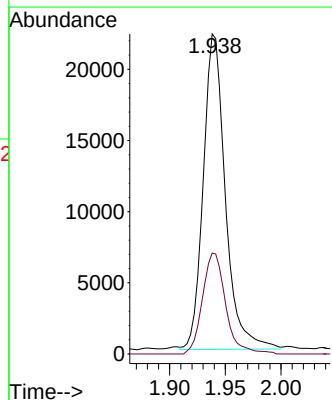
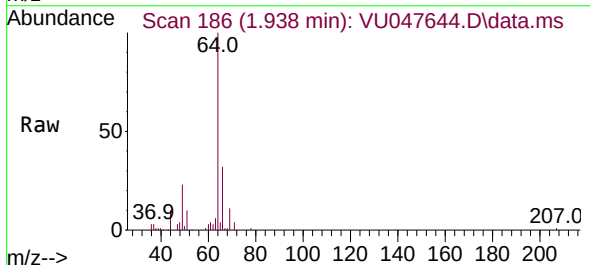
Instrument :
 MSVOA_U
 ClientSampleId :

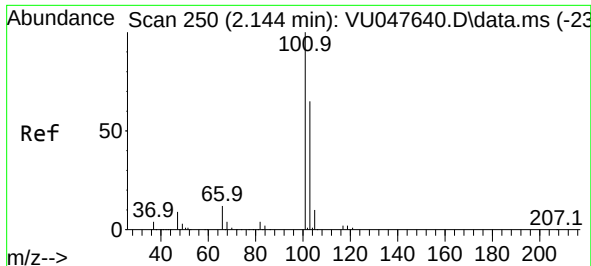
Tgt Ion: 62 Resp: 7390
 Ion Ratio Lower Upper
 62 100
 64 38.9 23.7 43.9



#8
 Chloroethane
 Concen: 76.883 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. 0.000 min
 Lab File: VU047644.D
 Acq: 24 Mar 2022 20:00

Tgt Ion: 64 Resp: 30609
 Ion Ratio Lower Upper
 64 100
 66 31.6 23.3 43.3

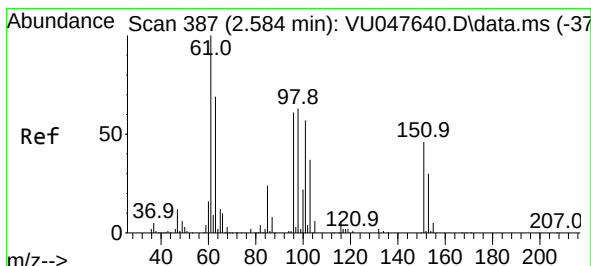
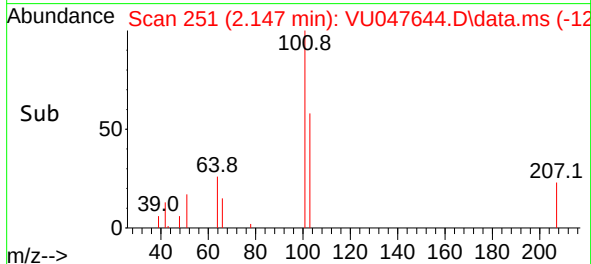
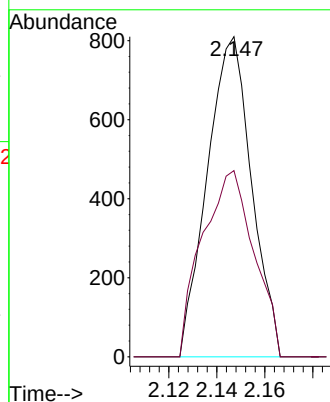
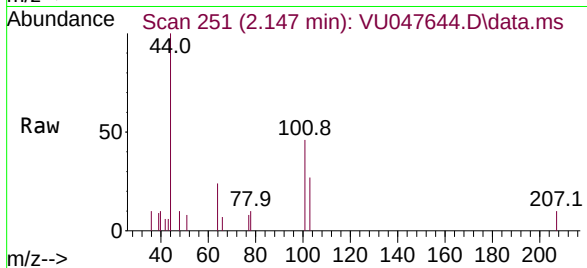




#9
 Trichlorofluoromethane
 Concen: 1.162 ug/L
 RT: 2.147 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VU047644.D
 Acq: 24 Mar 2022 20:00

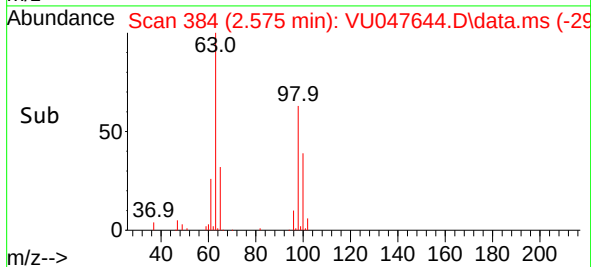
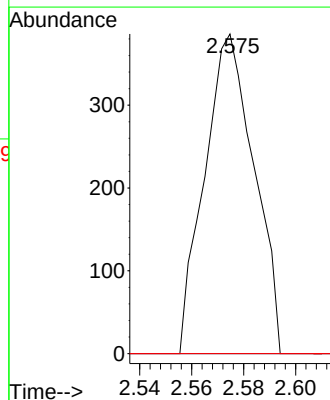
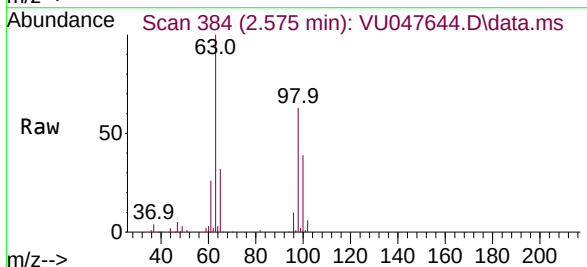
Instrument :
 MSVOA_U
 ClientSampleId :

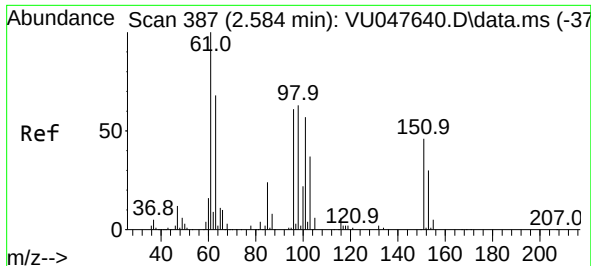
Tgt Ion:101 Resp: 1039
 Ion Ratio Lower Upper
 101 100
 103 67.8 51.4 77.2



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.989 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.010 min
 Lab File: VU047644.D
 Acq: 24 Mar 2022 20:00

Tgt Ion:101 Resp: 511
 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: 16.354 ug/L

RT: 2.588 min Scan# 387

Delta R.T. 0.003 min

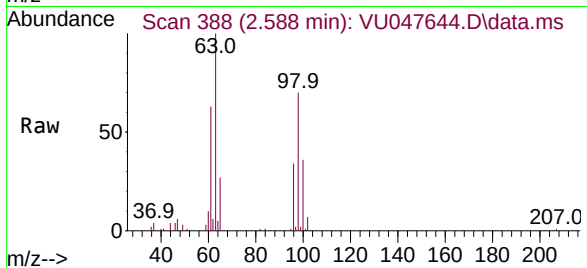
Lab File: VU047644.D

Acq: 24 Mar 2022 20:00

Instrument :

MSVOA_U

ClientSampleId :



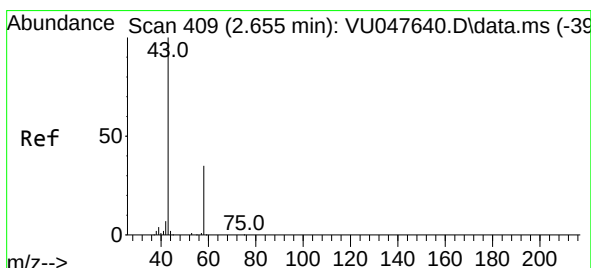
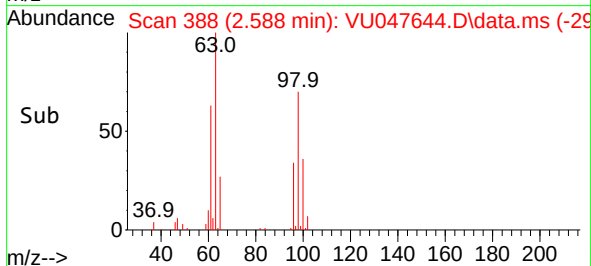
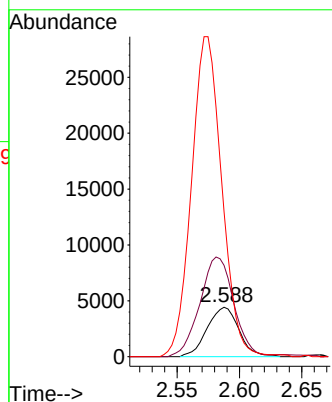
Tgt Ion: 96 Resp: 7868

Ion Ratio Lower Upper

96 100

61 184.9 113.1 210.1

63 293.8 94.8 176.0#



#13

Acetone

Concen: 4.529 ug/L

RT: 2.662 min Scan# 411

Delta R.T. 0.006 min

Lab File: VU047644.D

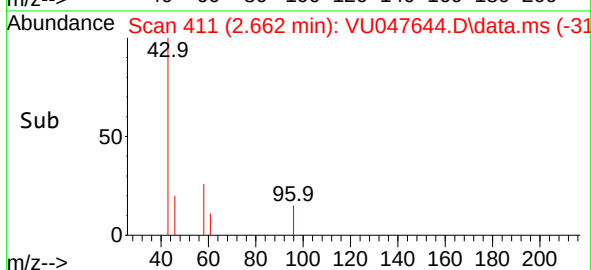
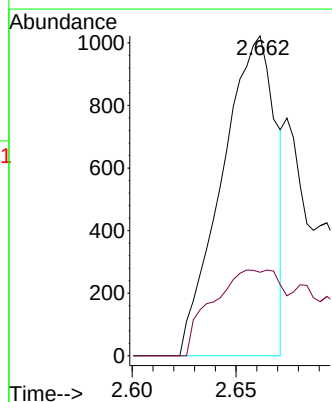
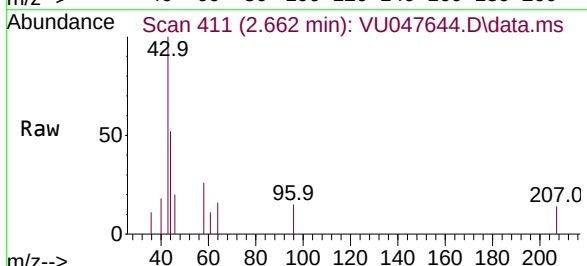
Acq: 24 Mar 2022 20:00

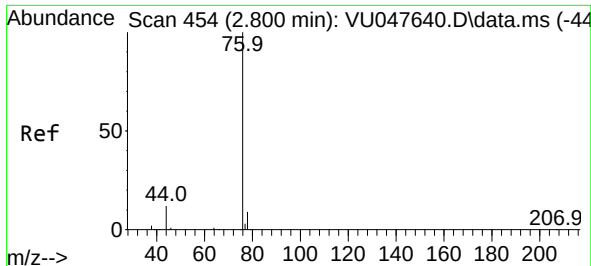
Tgt Ion: 43 Resp: 1840

Ion Ratio Lower Upper

43 100

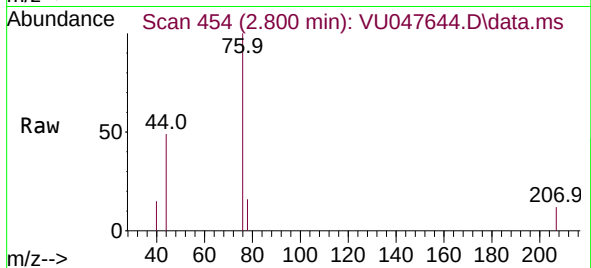
58 24.3 0.0 70.0



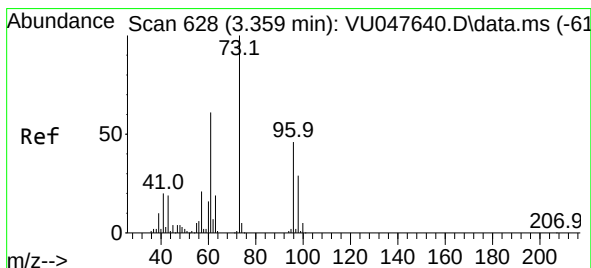
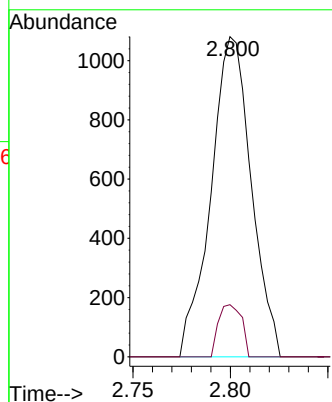
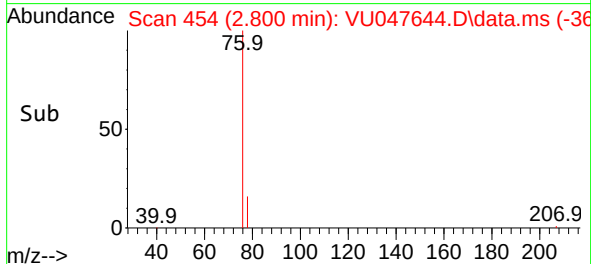


#14
Carbon disulfide
Concen: 1.024 ug/L
RT: 2.800 min Scan# 414
Delta R.T. 0.000 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

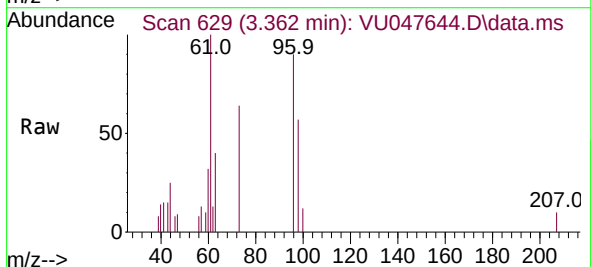
Instrument :
MSVOA_U
ClientSampleId :



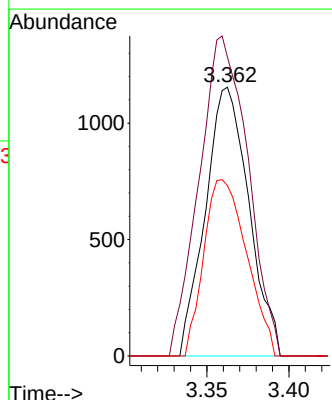
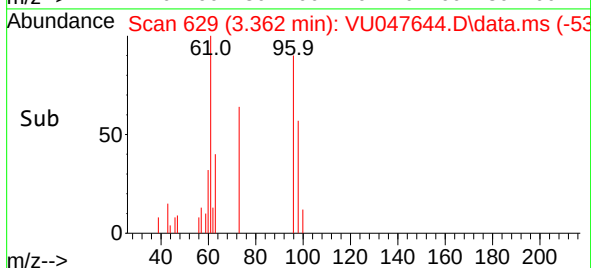
Tgt Ion: 76 Resp: 1557
Ion Ratio Lower Upper
76 100
78 16.3 7.4 11.0#

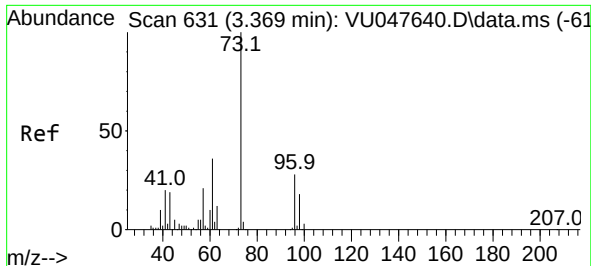


#17
trans-1,2-Dichloroethene
Concen: 4.107 ug/L
RT: 3.362 min Scan# 629
Delta R.T. 0.003 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00



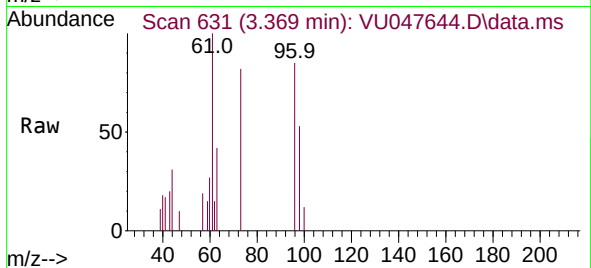
Tgt Ion: 96 Resp: 2131
Ion Ratio Lower Upper
96 100
61 111.3 88.4 164.2
98 63.4 43.3 80.5



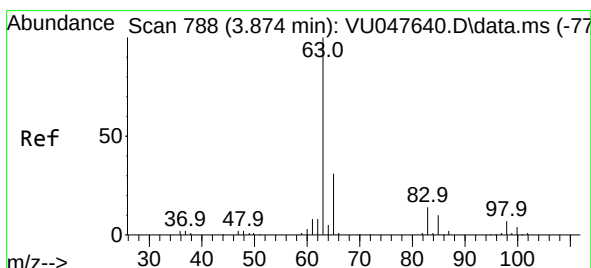
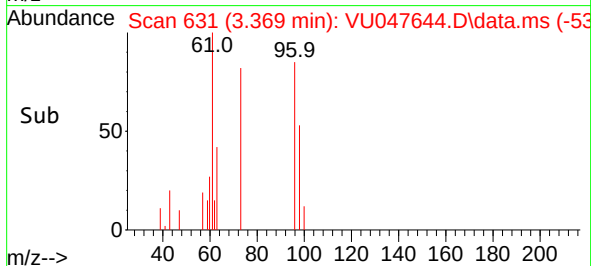
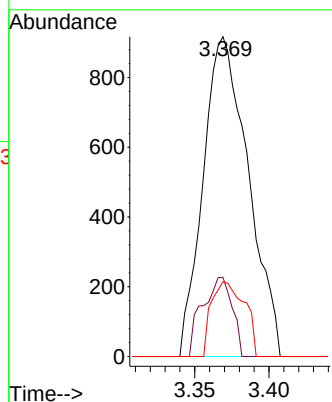


#18
Methyl tert-butyl Ether
Concen: 1.322 ug/L
RT: 3.369 min Scan# 611
Delta R.T. 0.000 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

Instrument :
MSVOA_U
ClientSampleId :

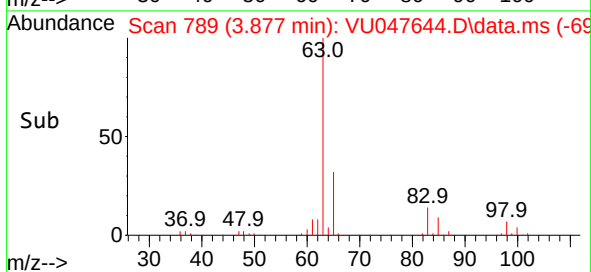
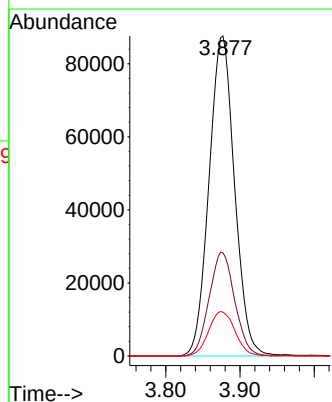
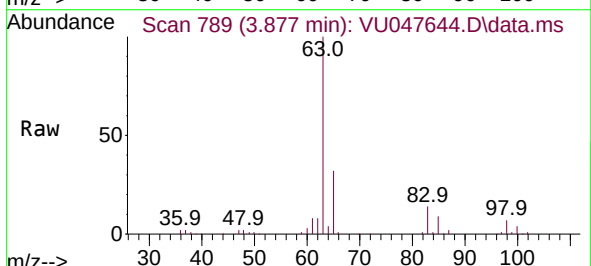


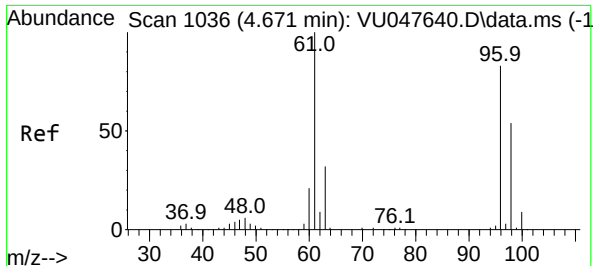
Tgt Ion: 73	Resp: 1936
Ion Ratio	Lower Upper
73 100	
43 16.3	15.3 22.9
57 17.1	17.0 25.6



#19
1,1-Dichloroethane
Concen: 233.589 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.003 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

Tgt Ion: 63	Resp: 209051
Ion Ratio	Lower Upper
63 100	
65 32.3	22.0 41.0
83 13.7	9.7 18.1

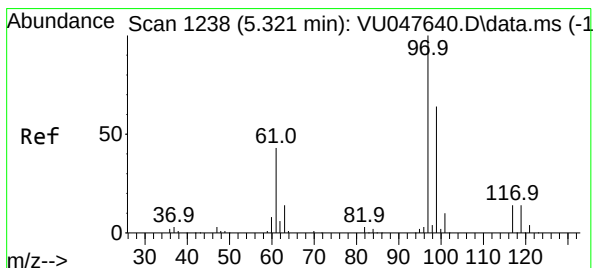
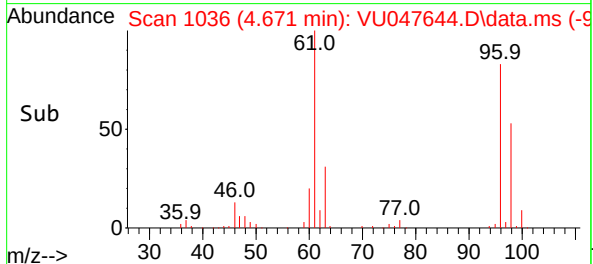
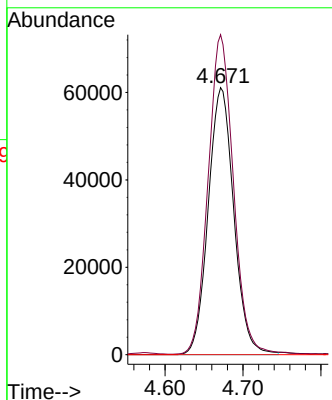
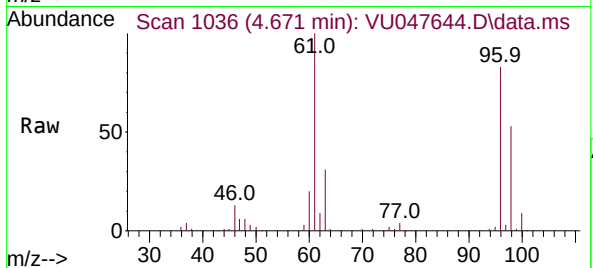




#20
 cis-1,2-Dichloroethene
 Concen: 244.837 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VU047644.D
 Acq: 24 Mar 2022 20:00

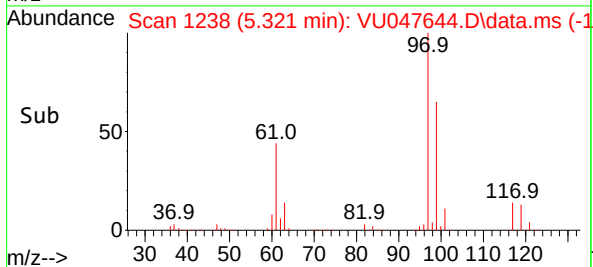
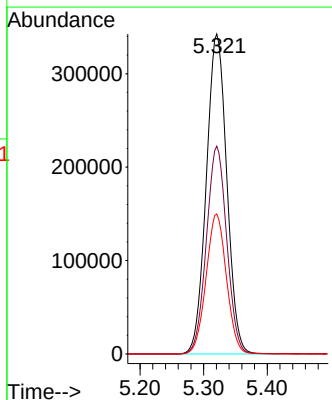
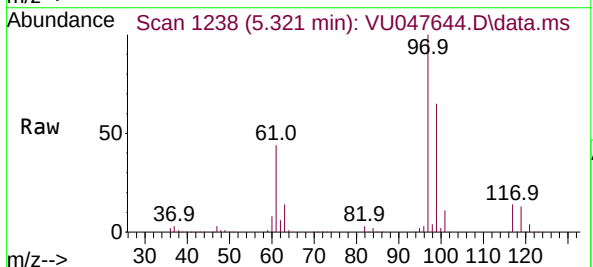
Instrument :
 MSVOA_U
 ClientSampleId :

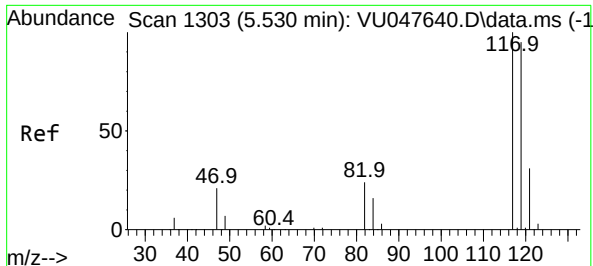
Tgt Ion: 96 Resp: 139286
 Ion Ratio Lower Upper
 96 100
 61 119.9 80.7 149.9
 68 0.0 0.0 0.0



#30
 1,1,1-Trichloroethane
 Concen: 895.361 ug/L
 RT: 5.321 min Scan# 1238
 Delta R.T. 0.000 min
 Lab File: VU047644.D
 Acq: 24 Mar 2022 20:00

Tgt Ion: 97 Resp: 766318
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.6 77.4
 61 43.5 34.2 51.4

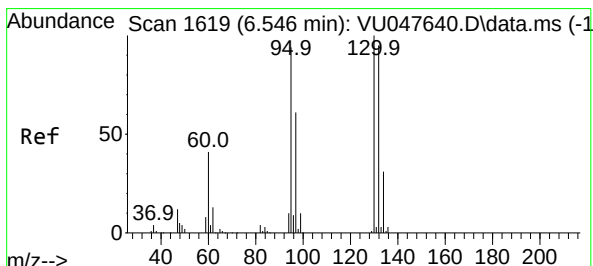
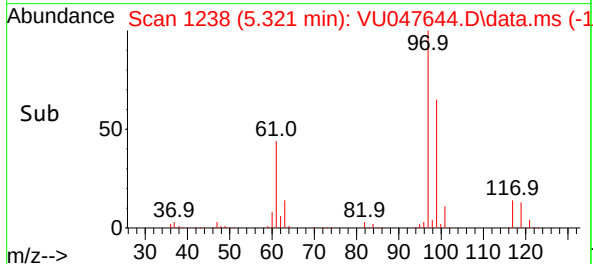
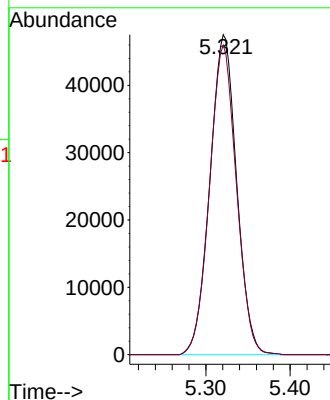
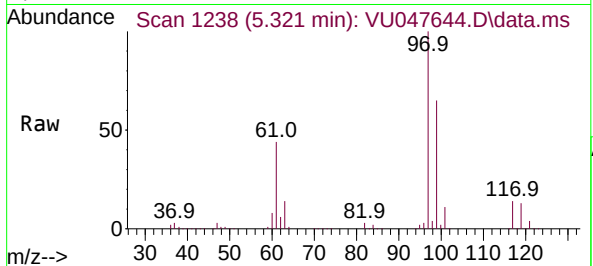




#31
Carbon tetrachloride
Concen: 135.398 ug/L
RT: 5.321 min Scan# 11
Delta R.T. -0.209 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

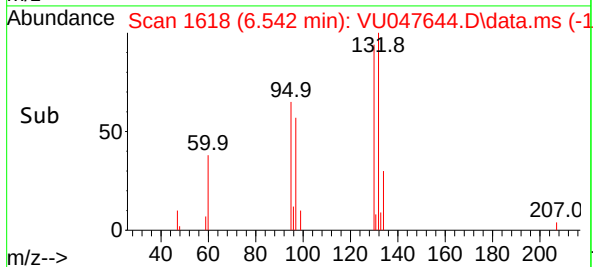
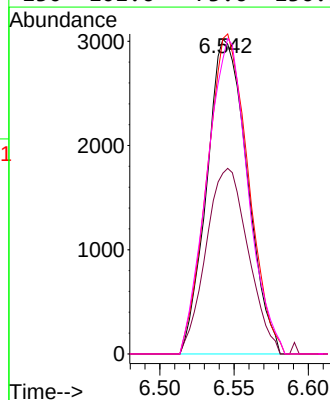
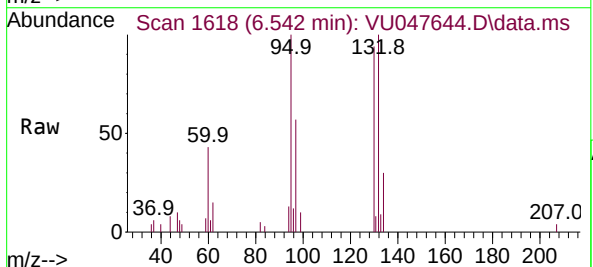
Instrument :
MSVOA_U
ClientSampleId :

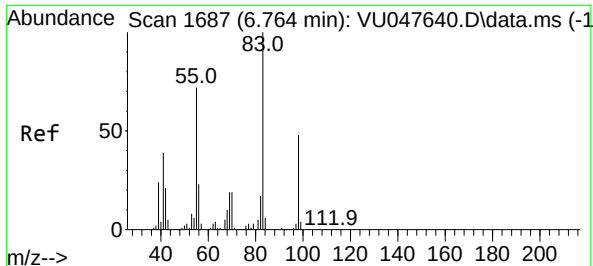
Tgt Ion:117 Resp: 104643
Ion Ratio Lower Upper
117 100
119 97.2 77.2 115.8



#34
Trichloroethene
Concen: 9.974 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. -0.003 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

Tgt Ion: 95 Resp: 5713
Ion Ratio Lower Upper
95 100
97 57.4 44.7 82.9
132 100.2 70.4 130.8
130 101.6 73.6 136.8





#35

Methylcyclohexane

Concen: 1.602 ug/L

RT: 6.768 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU047644.D

Acq: 24 Mar 2022 20:00

Instrument :

MSVOA_U

ClientSampleId :

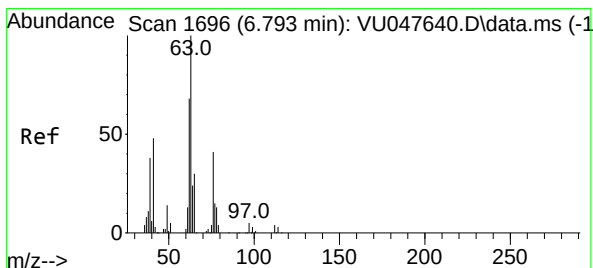
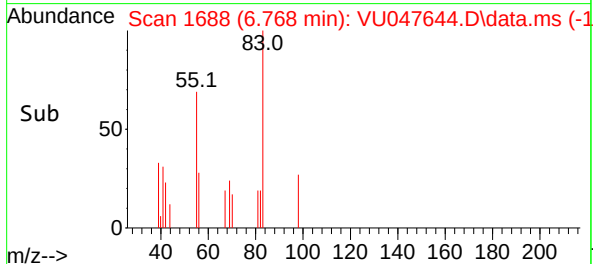
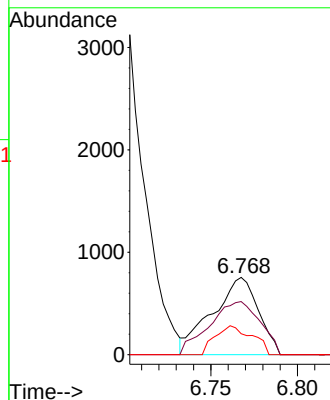
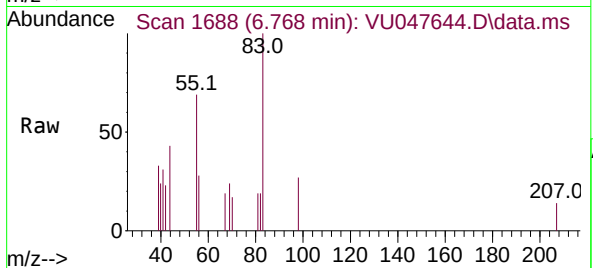
Tgt Ion: 83 Resp: 1396

Ion Ratio Lower Upper

83 100

55 75.8 56.8 85.2

98 29.9 38.1 57.1#



#37

1,2-Dichloropropane

Concen: 6.971 ug/L

RT: 6.694 min Scan# 1665

Delta R.T. -0.100 min

Lab File: VU047644.D

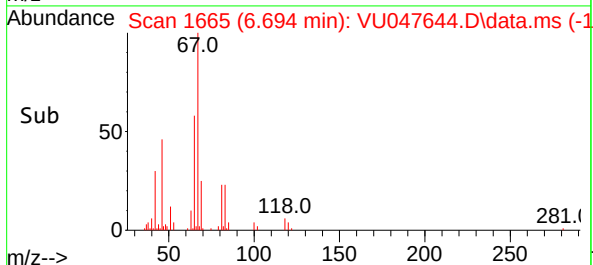
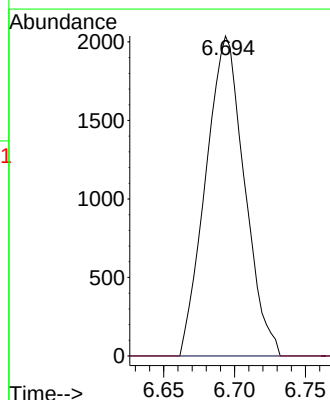
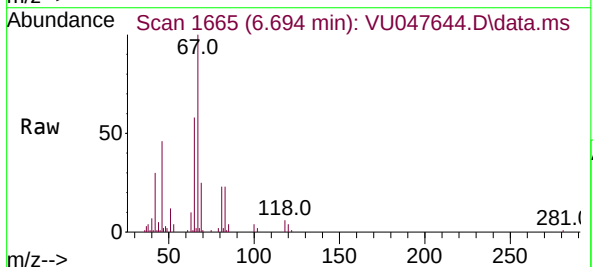
Acq: 24 Mar 2022 20:00

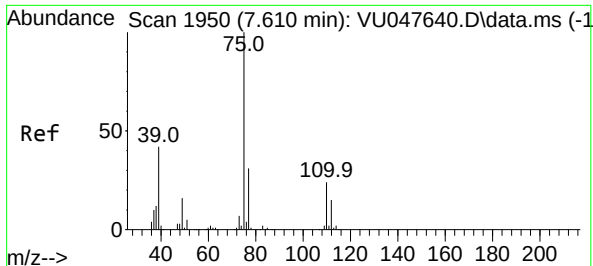
Tgt Ion: 63 Resp: 3872

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.2#





#39

cis-1,3-Dichloropropene

Concen: 1.363 ug/L

RT: 7.565 min Scan# 1950

Delta R.T. -0.045 min

Lab File: VU047644.D

Acq: 24 Mar 2022 20:00

Instrument :

MSVOA_U

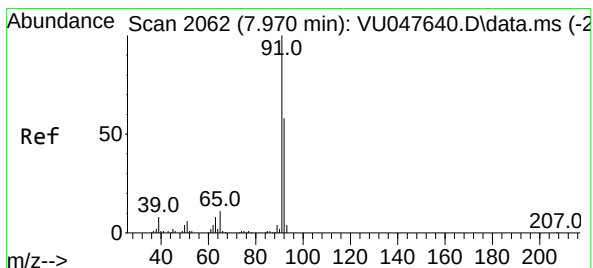
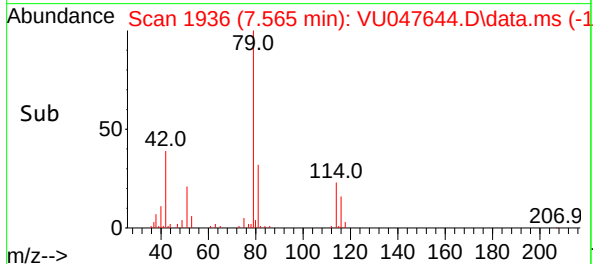
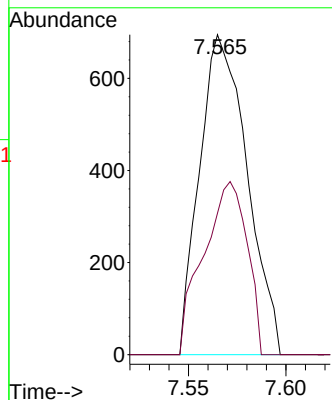
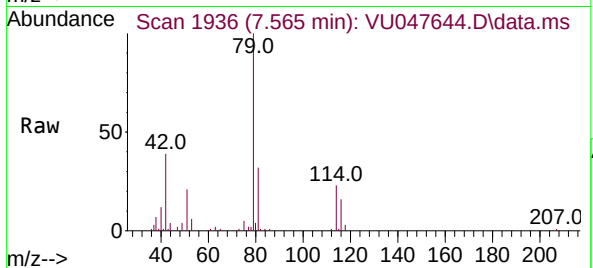
ClientSampleId :

Tgt Ion: 75 Resp: 1175

Ion Ratio Lower Upper

75 100

77 44.2 21.8 40.6#



#42

Toluene

Concen: 1.190 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. 0.003 min

Lab File: VU047644.D

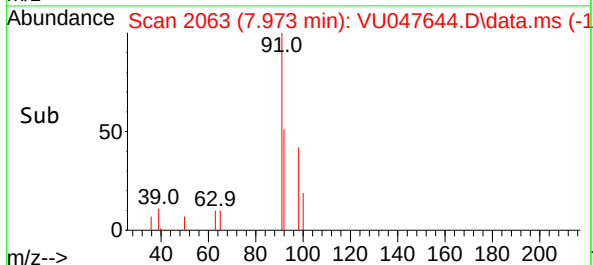
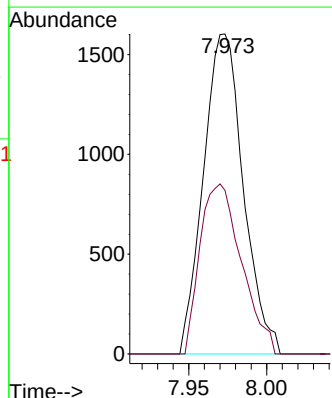
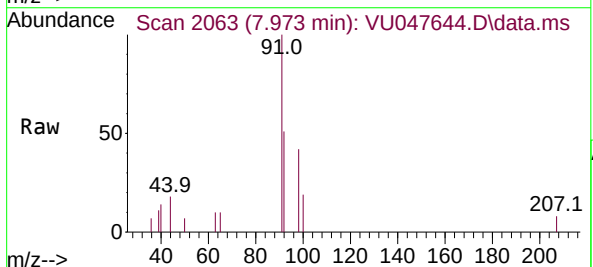
Acq: 24 Mar 2022 20:00

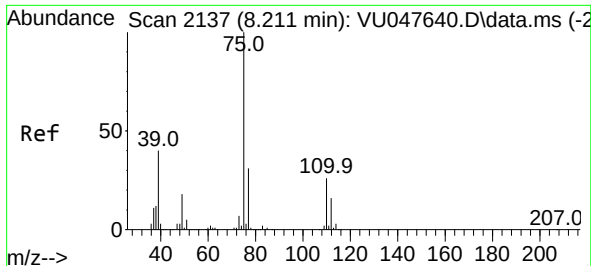
Tgt Ion: 91 Resp: 2852

Ion Ratio Lower Upper

91 100

92 51.1 40.4 75.0

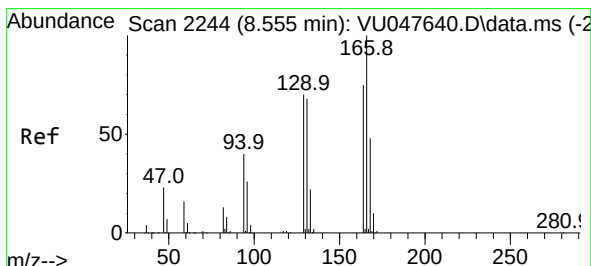
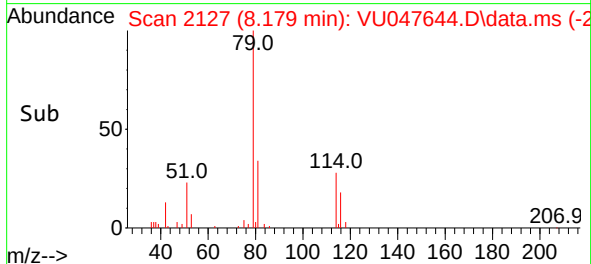
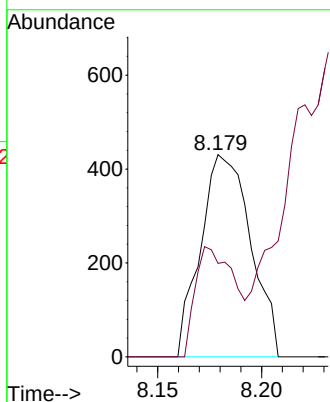
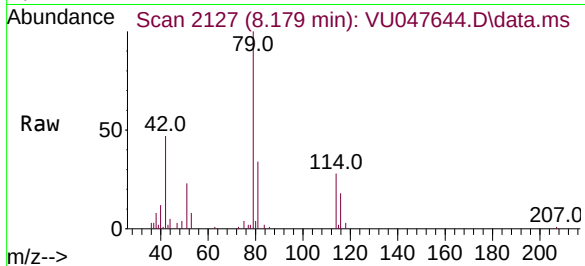




#44
trans-1,3-Dichloropropene
Concen: 0.841 ug/L
RT: 8.179 min Scan# 2137
Delta R.T. -0.032 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

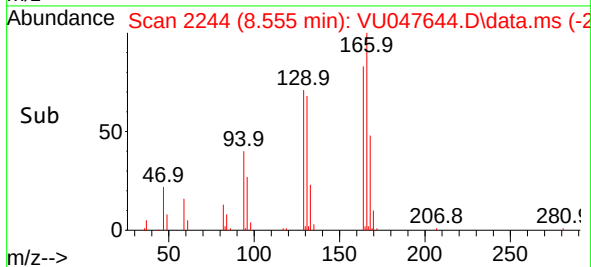
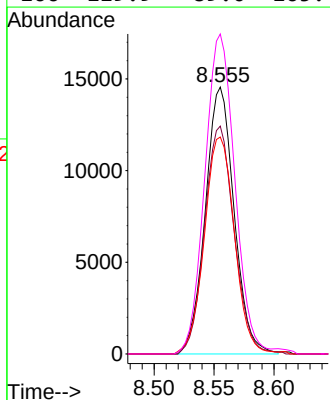
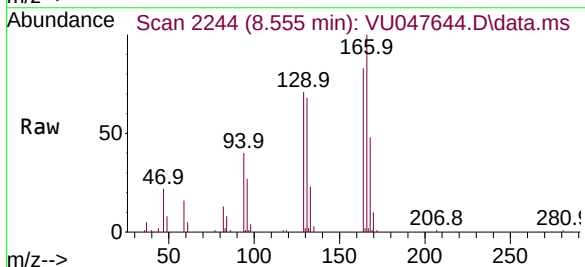
Instrument :
MSVOA_U
ClientSampleId :

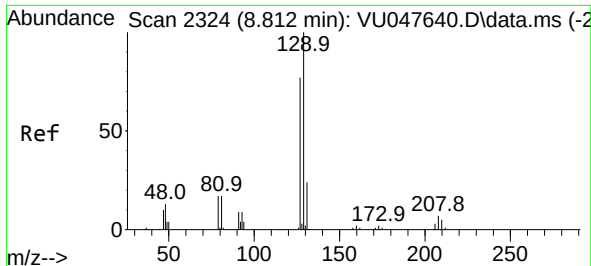
Tgt Ion: 75 Resp: 724
Ion Ratio Lower Upper
75 100
77 46.2 22.0 40.8#



#46
Tetrachloroethene
Concen: 47.281 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

Tgt Ion:164 Resp: 24337
Ion Ratio Lower Upper
164 100
129 85.4 62.4 116.0
131 81.3 60.7 112.7
166 119.9 89.0 165.4





#49

Dibromochloromethane

Concen: 31.204 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU047644.D

Acq: 24 Mar 2022 20:00

Instrument :

MSVOA_U

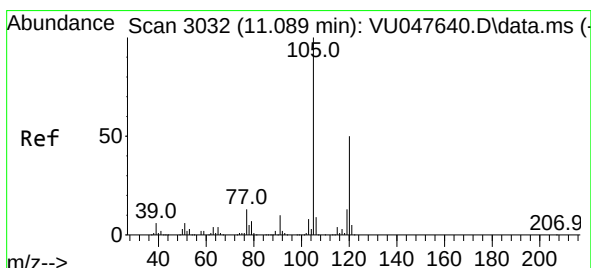
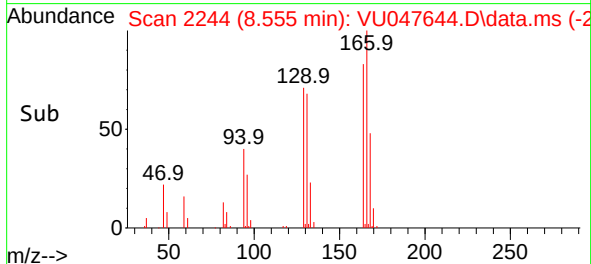
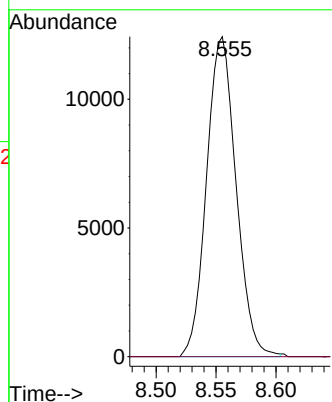
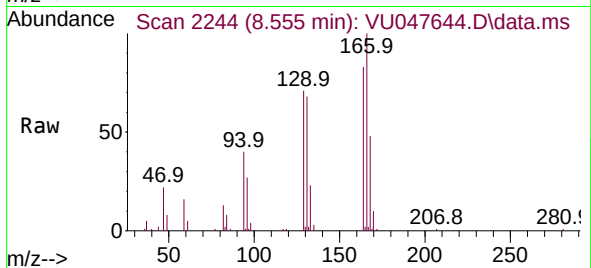
ClientSampleId :

Tgt Ion:129 Resp: 21289

Ion Ratio Lower Upper

129 100

127 0.0 54.2 100.6#



#62

1,3,5-Trimethylbenzene

Concen: 0.967 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VU047644.D

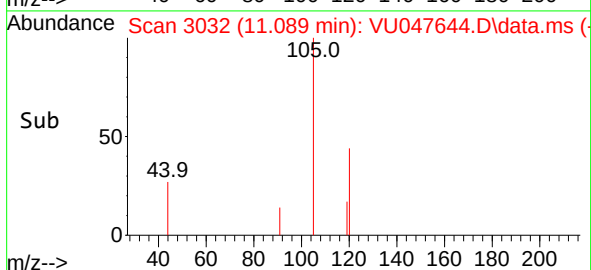
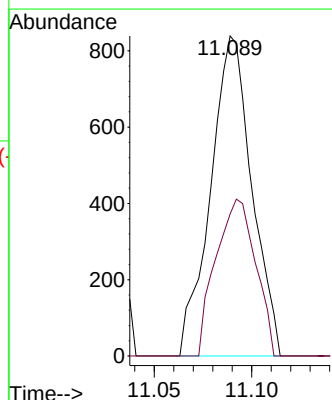
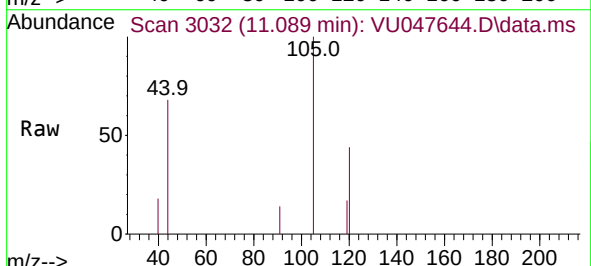
Acq: 24 Mar 2022 20:00

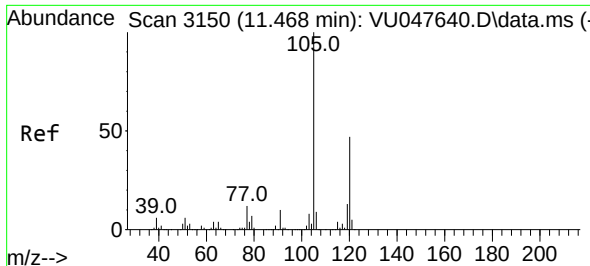
Tgt Ion:105 Resp: 1237

Ion Ratio Lower Upper

105 100

120 47.2 40.8 61.2

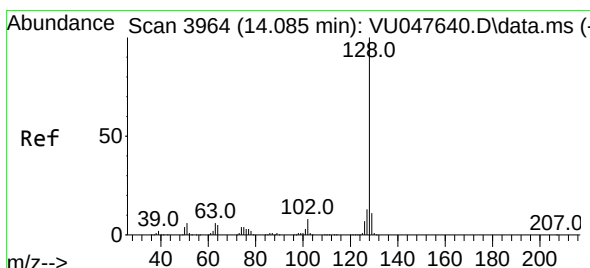
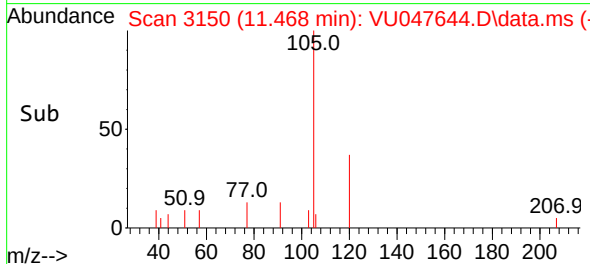
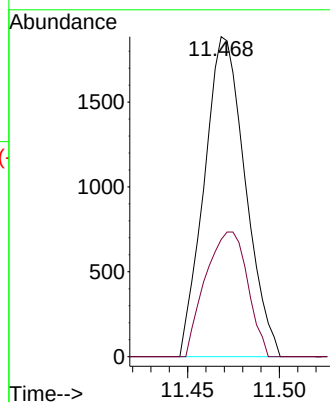
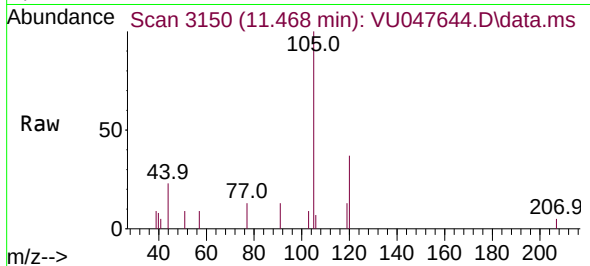




#63
1,2,4-Trimethylbenzene
Concen: 1.506 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:105 Resp: 2926
Ion Ratio Lower Upper
105 100
120 40.0 37.6 56.4



#71
Naphthalene
Concen: 2.016 ug/L
RT: 14.092 min Scan# 3966
Delta R.T. 0.006 min
Lab File: VU047644.D
Acq: 24 Mar 2022 20:00

Tgt Ion:128 Resp: 5602
Ion Ratio Lower Upper
128 100
127 14.2 10.2 15.2
129 11.8 8.8 13.2

