

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U032422\
 Data File : U047653.D
 Acq On : 24 Mar 2022 23:24
 Operator : SY/MD
 Sample : N2081-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 25 05:29:50 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	246279	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	248506	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	133261	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	96704	54.148	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	= 108.300%	
7) Chloroethane-d5	1.919	69	78808	55.963	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	= 111.920%	
11) 1,1-Dichloroethene-d2	2.571	63	158011	48.358	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 96.720%	
21) 2-Butanone-d5	4.642	46	201659	131.554	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	= 131.550%#	
24) Chloroform-d	5.067	84	189922	58.120	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 116.240%	
26) 1,2-Dichloroethane-d4	5.703	65	118712	59.232	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 118.460%	
32) Benzene-d6	5.729	84	387208	61.922	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	= 123.840%	
36) 1,2-Dichloropropane-d6	6.694	67	121369	63.200	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	= 126.400%#	
41) Toluene-d8	7.899	98	363688	59.696	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 119.400%	
43) trans-1,3-Dichloroprop...	8.179	79	57797	59.407	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	= 118.820%	
47) 2-Hexanone-d5	8.636	63	141346	125.731	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	= 125.730%	
56) 1,1,2,2-Tetrachloroeth...	10.758	84	193160	58.609	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	= 117.220%	
66) 1,2-Dichlorobenzene-d4	12.192	152	156572	66.041	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	= 132.080%#	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	1060	0.476	ug/L #	1
9) Trichlorofluoromethane	2.144	101	6818	2.171	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.571	101	1427	0.786	ug/L #	18
17) trans-1,2-Dichloroethene	3.359	96	35093	19.259	ug/L	97
19) 1,1-Dichloroethane	3.874	63	626695	199.421	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	4569420	2287.407	ug/L	93
27) 1,2-Dichloroethane	5.800	62	10237	3.916	ug/L	96
30) 1,1,1-Trichloroethane	5.321	97	3040034	1078.868	ug/L	100
31) Carbon tetrachloride	5.321	117	419147	164.728	ug/L	100
33) Benzene	5.777	78	16019	2.227	ug/L	100
34) Trichloroethene	6.546	95	23781	12.610	ug/L	98
40) 4-Methyl-2-pentanone	7.800	43	3736	1.293	ug/L #	94
42) Toluene	7.970	91	75164	9.523	ug/L	99
44) trans-1,3-Dichloropropene	8.179	75	2611	0.922	ug/L #	81
45) 1,1,2-Trichloroethane	8.401	97	5548	2.861	ug/L	94
46) Tetrachloroethene	8.555	164	36163	21.339	ug/L	94
52) Ethylbenzene	9.571	91	12617	1.520	ug/L	98
53) m,p-Xylene	9.693	106	12881	3.956	ug/L	99
54) o-Xylene	10.102	106	13171	4.121	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Thu Mar 24 23:34:42 2022
Response via : Initial Calibration

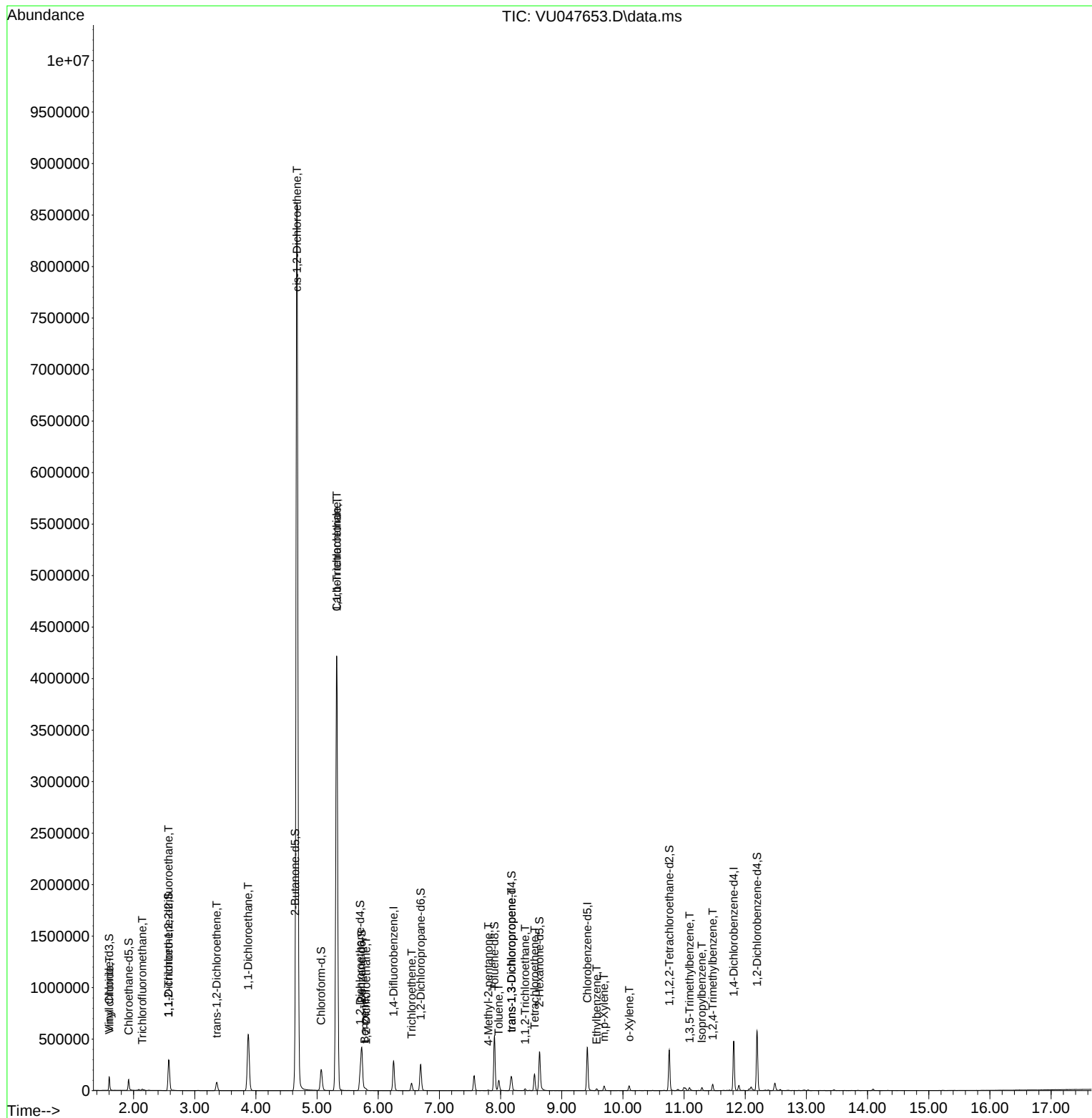
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Isopropylbenzene	11.291	105	17425	2.419	ug/L	93
62) 1,3,5-Trimethylbenzene	11.089	105	15575	3.986	ug/L	99
63) 1,2,4-Trimethylbenzene	11.468	105	33097	5.576	ug/L	98

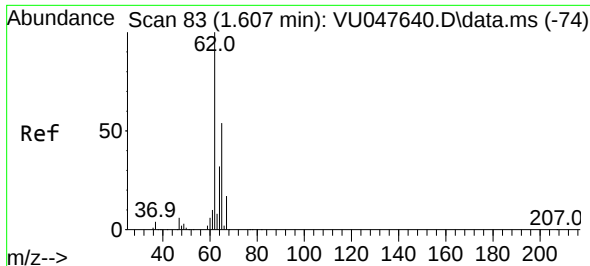
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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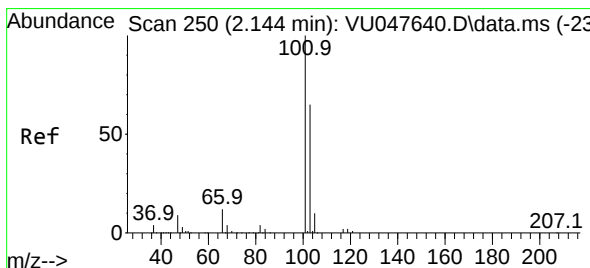
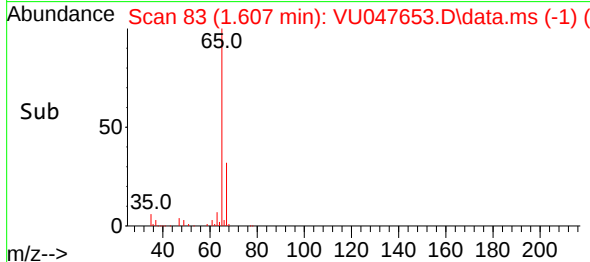
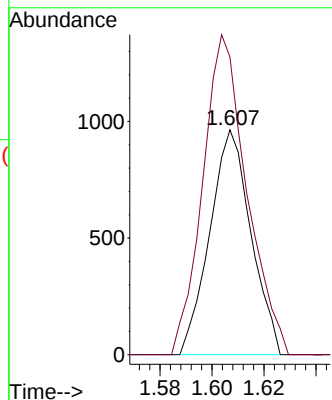
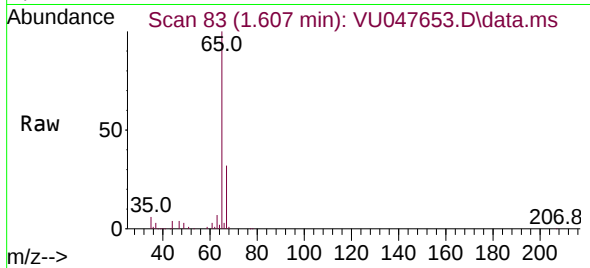




#5
 Vinyl chloride
 Concen: 0.476 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU047653.D
 Acq: 24 Mar 2022 23:24

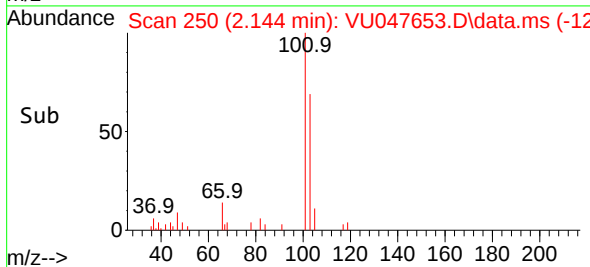
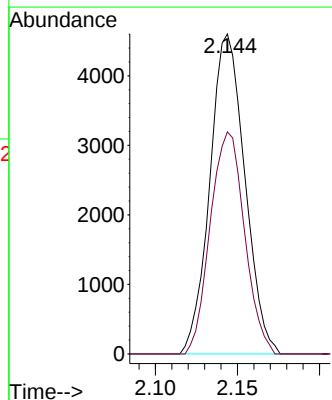
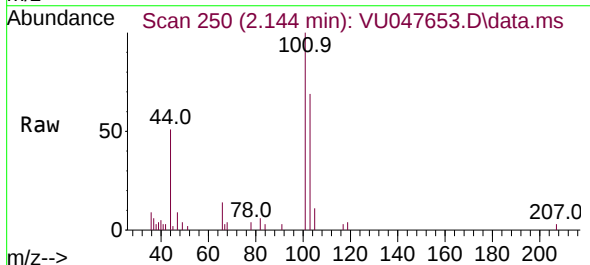
Instrument :
 MSVOA_U
 ClientSampleId :

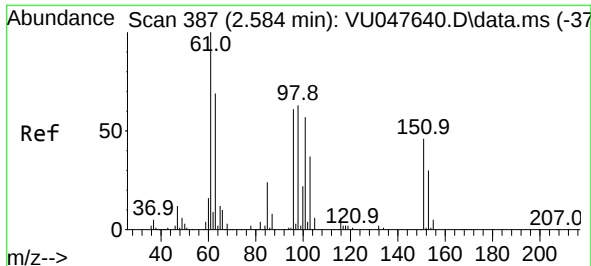
Tgt Ion: 62 Resp: 1060
 Ion Ratio Lower Upper
 62 100
 64 132.4 23.7 43.9#



#9
 Trichlorofluoromethane
 Concen: 2.171 ug/L
 RT: 2.144 min Scan# 250
 Delta R.T. 0.000 min
 Lab File: VU047653.D
 Acq: 24 Mar 2022 23:24

Tgt Ion: 101 Resp: 6818
 Ion Ratio Lower Upper
 101 100
 103 68.0 51.4 77.2

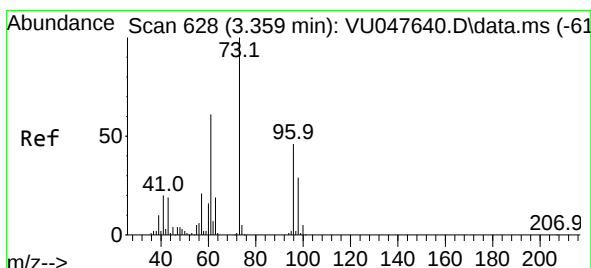
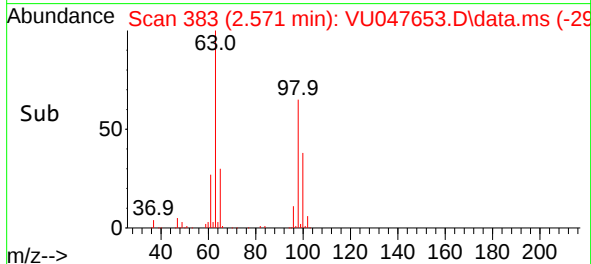
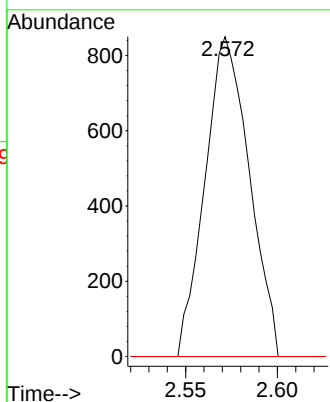
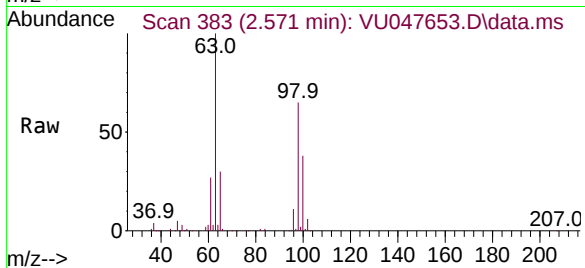




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.786 ug/L
RT: 2.571 min Scan# 383
Delta R.T. -0.013 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

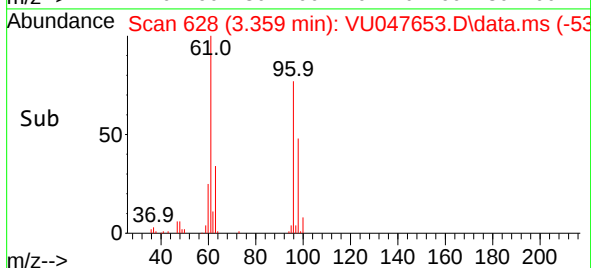
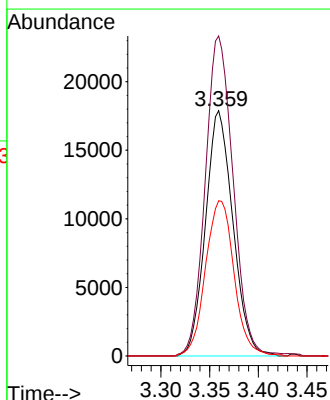
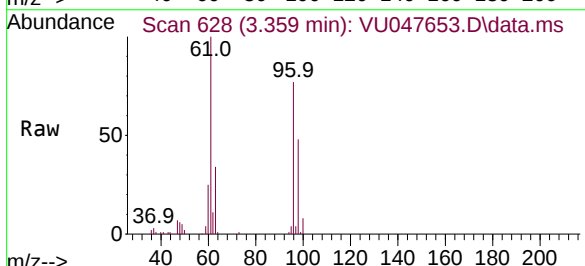
Instrument :
MSVOA_U
ClientSampleId :

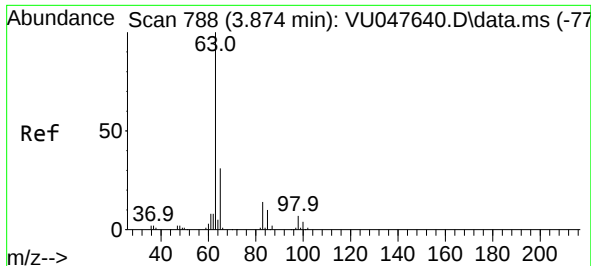
Tgt Ion:101 Resp: 1427
Ion Ratio Lower Upper
101 100
85 0.0 32.8 49.2#
151 0.0 63.0 94.6#



#17
trans-1,2-Dichloroethene
Concen: 19.259 ug/L
RT: 3.359 min Scan# 628
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

Tgt Ion: 96 Resp: 35093
Ion Ratio Lower Upper
96 100
61 130.5 88.4 164.2
98 63.2 43.3 80.5





#19

1,1-Dichloroethane

Concen: 199.421 ug/L

RT: 3.874 min Scan# 788

Delta R.T. 0.000 min

Lab File: VU047653.D

Acq: 24 Mar 2022 23:24

Instrument :

MSVOA_U

ClientSampleId :

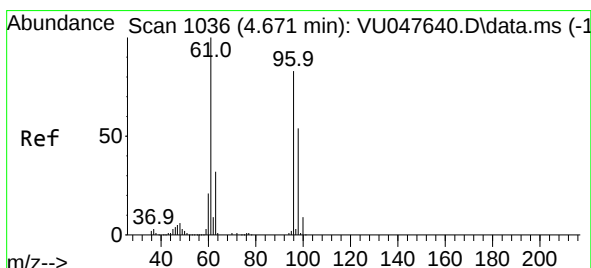
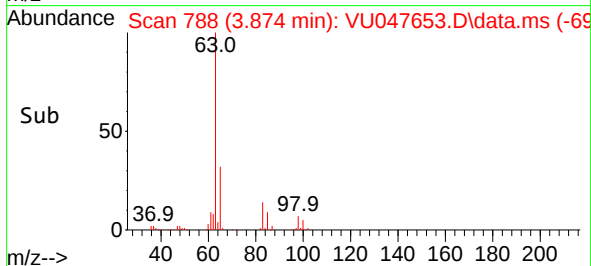
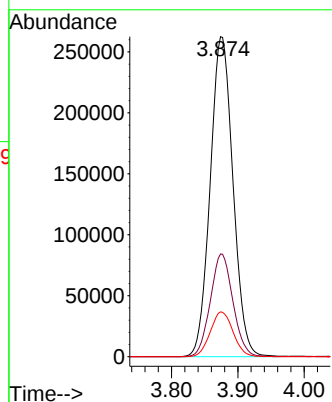
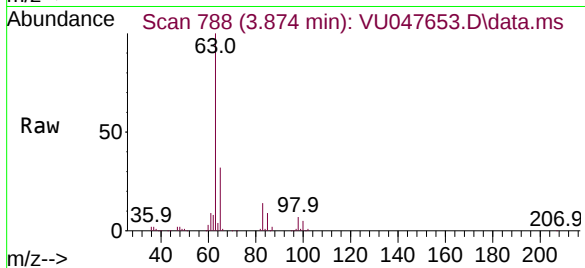
Tgt Ion: 63 Resp: 626695

Ion Ratio Lower Upper

63 100

65 32.1 22.0 41.0

83 14.0 9.7 18.1



#20

cis-1,2-Dichloroethene

Concen: 2287.407 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU047653.D

Acq: 24 Mar 2022 23:24

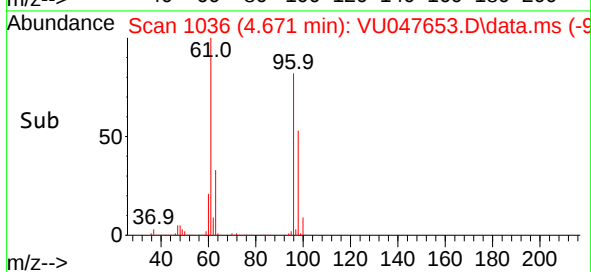
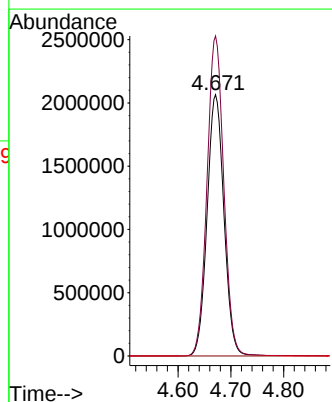
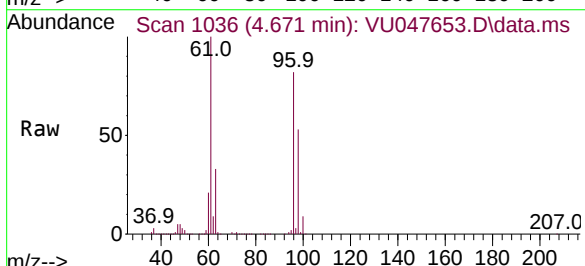
Tgt Ion: 96 Resp: 4569420

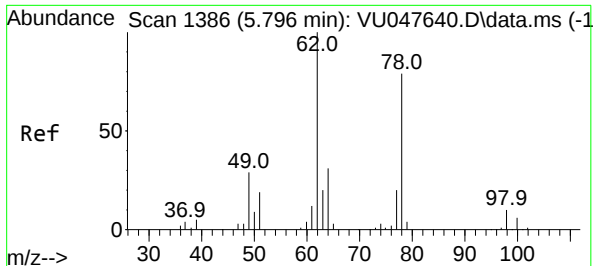
Ion Ratio Lower Upper

96 100

61 122.5 80.7 149.9

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 3.916 ug/L

RT: 5.800 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU047653.D

Acq: 24 Mar 2022 23:24

Instrument :

MSVOA_U

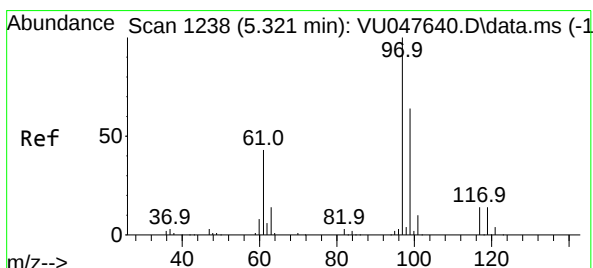
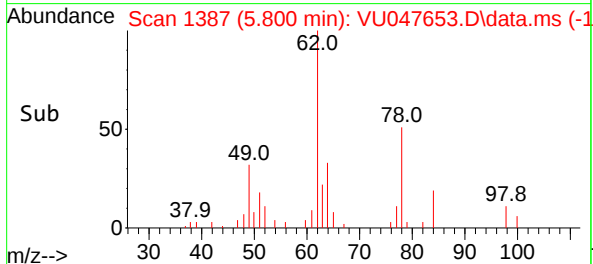
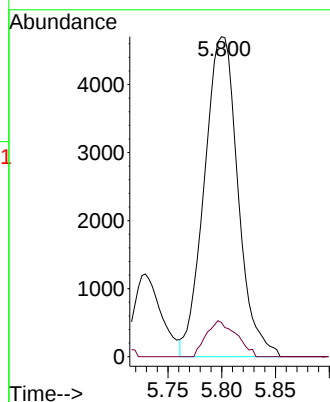
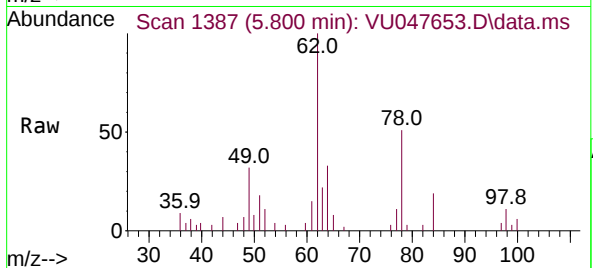
ClientSampleId :

Tgt Ion: 62 Resp: 10237

Ion Ratio Lower Upper

62 100

98 10.6 7.4 11.0



#30

1,1,1-Trichloroethane

Concen: 1078.868 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU047653.D

Acq: 24 Mar 2022 23:24

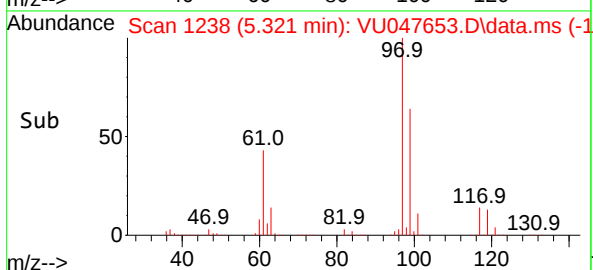
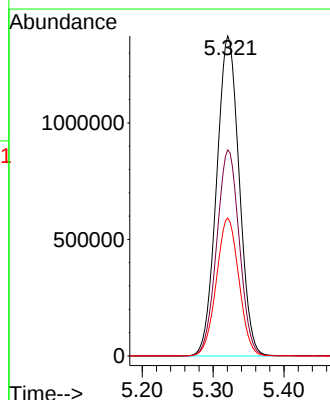
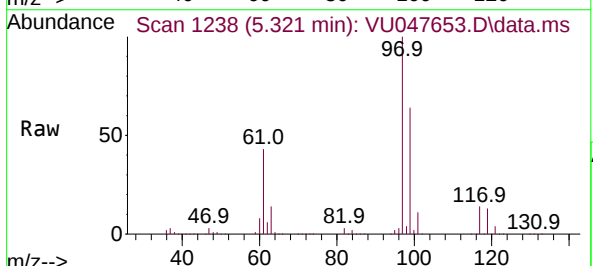
Tgt Ion: 97 Resp: 3040034

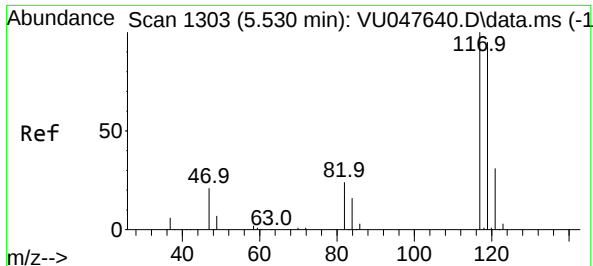
Ion Ratio Lower Upper

97 100

99 64.6 51.6 77.4

61 43.1 34.2 51.4

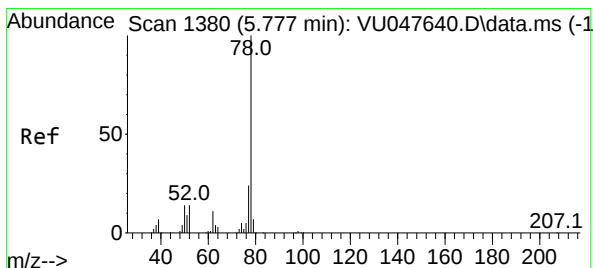
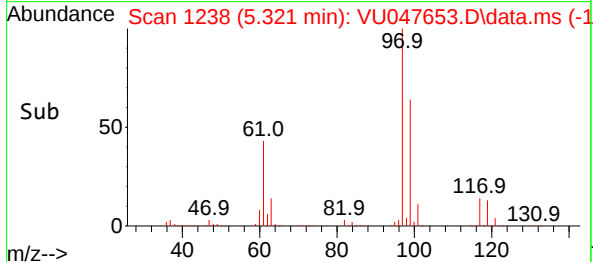
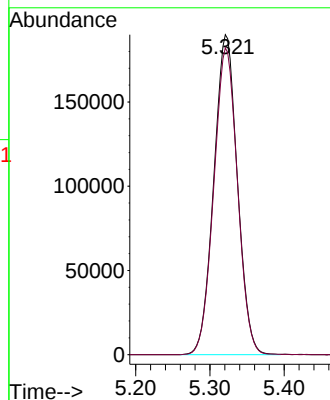
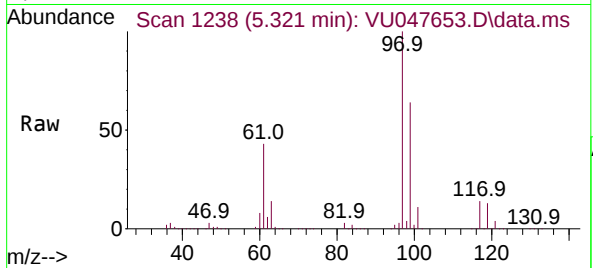




#31
Carbon tetrachloride
Concen: 164.728 ug/L
RT: 5.321 min Scan# 117
Delta R.T. -0.209 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

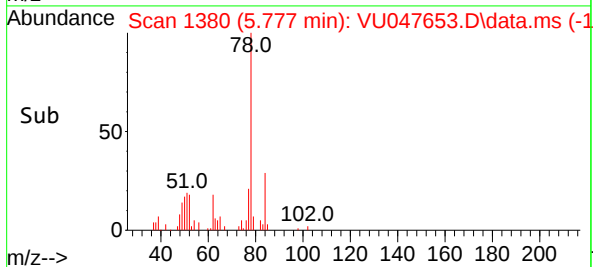
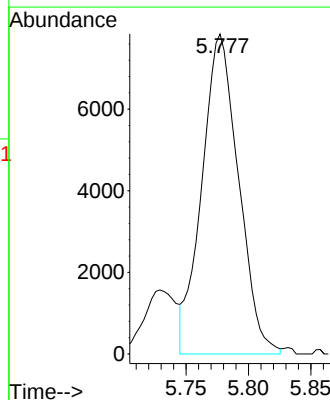
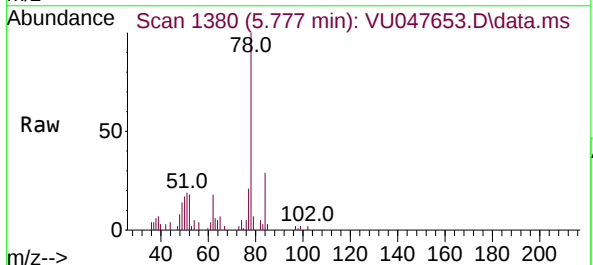
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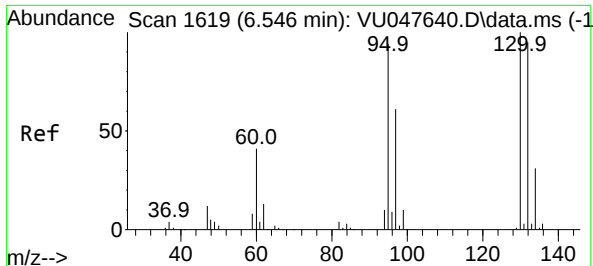
Tgt Ion:117 Resp: 419147
Ion Ratio Lower Upper
117 100
119 96.4 77.2 115.8



#33
Benzene
Concen: 2.227 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

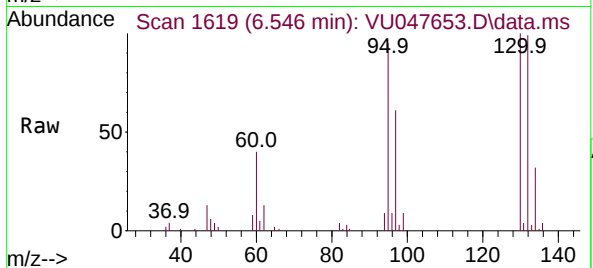
Tgt Ion: 78 Resp: 16019



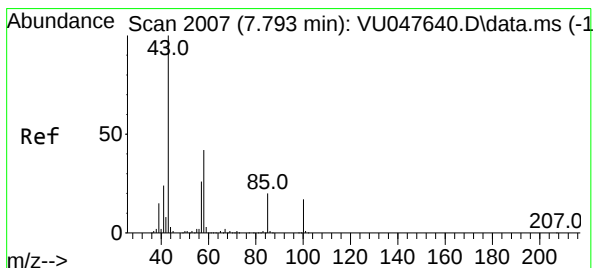
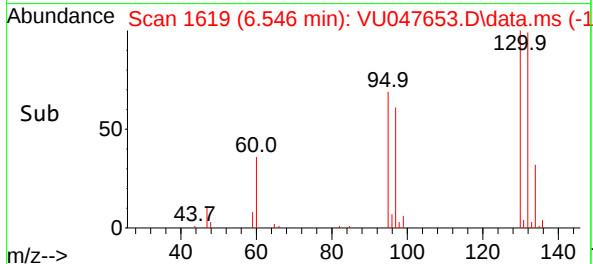
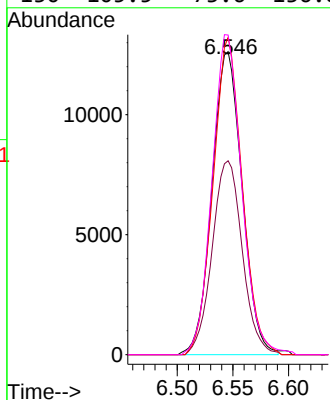


#34
Trichloroethene
Concen: 12.610 ug/L
RT: 6.546 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

Instrument :
MSVOA_U
ClientSampleId :

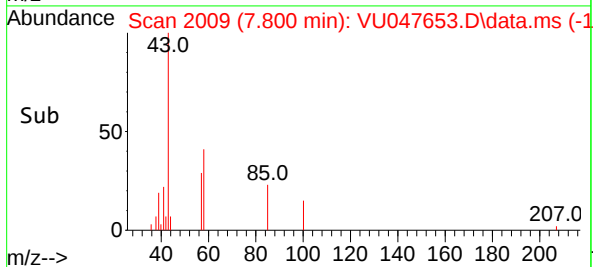
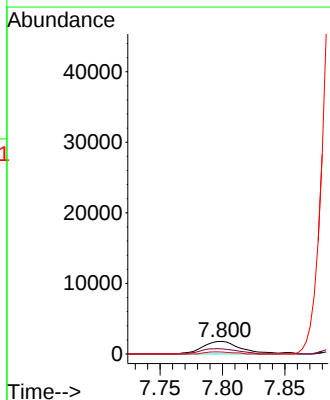
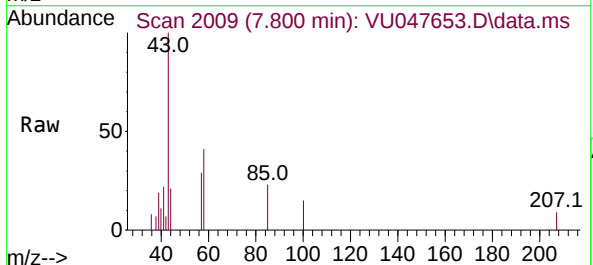


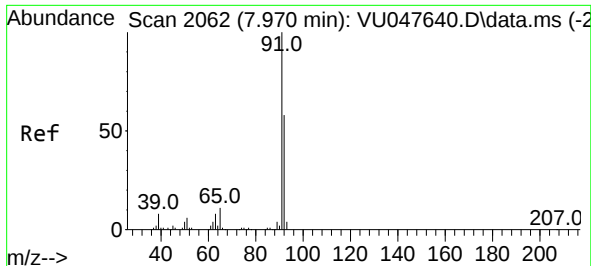
Tgt Ion: 95 Resp: 23781
Ion Ratio Lower Upper
95 100
97 64.0 44.7 82.9
132 104.6 70.4 130.8
130 105.5 73.6 136.8



#40
4-Methyl-2-pentanone
Concen: 1.293 ug/L
RT: 7.800 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

Tgt Ion: 43 Resp: 3736
Ion Ratio Lower Upper
43 100
58 41.2 34.7 52.1
100 11.9 14.2 21.2#

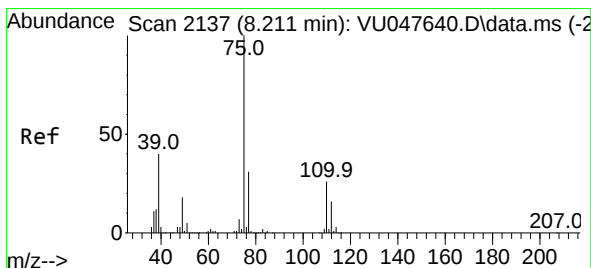
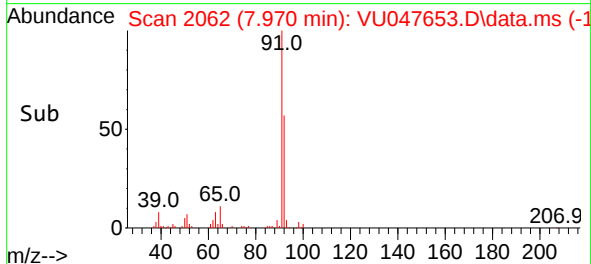
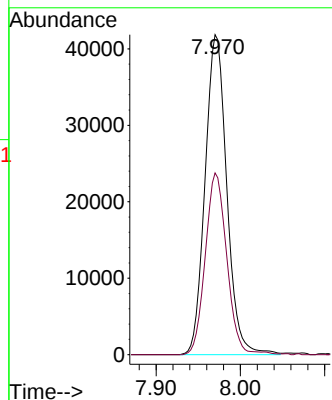
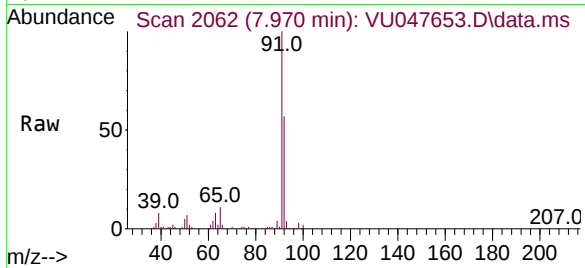




#42
Toluene
Concen: 9.523 ug/L
RT: 7.970 min Scan# 2062
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

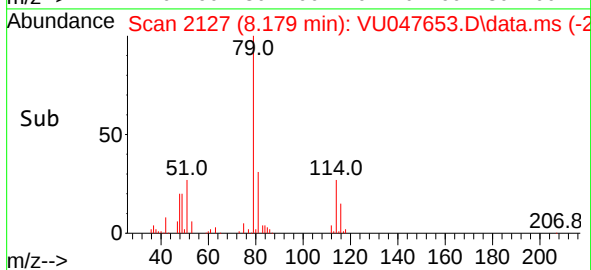
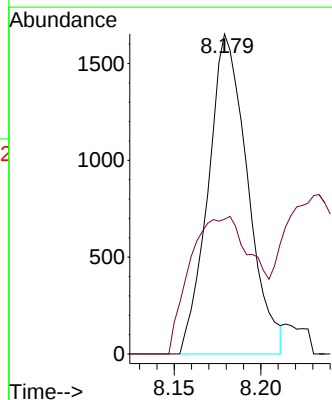
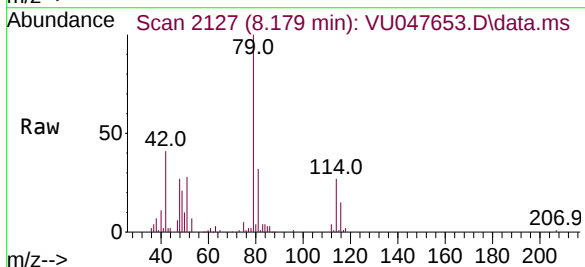
Instrument :
MSVOA_U
ClientSampleId :

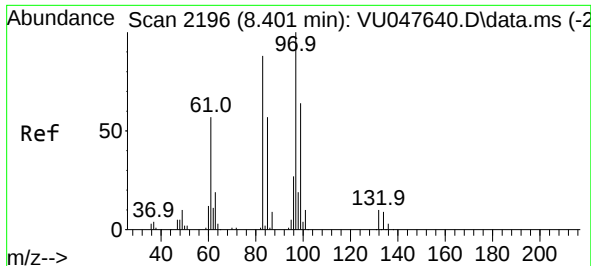
Tgt Ion: 91 Resp: 75164
Ion Ratio Lower Upper
91 100
92 56.8 40.4 75.0



#44
trans-1,3-Dichloropropene
Concen: 0.922 ug/L
RT: 8.179 min Scan# 2127
Delta R.T. -0.032 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

Tgt Ion: 75 Resp: 2611
Ion Ratio Lower Upper
75 100
77 42.1 22.0 40.8#

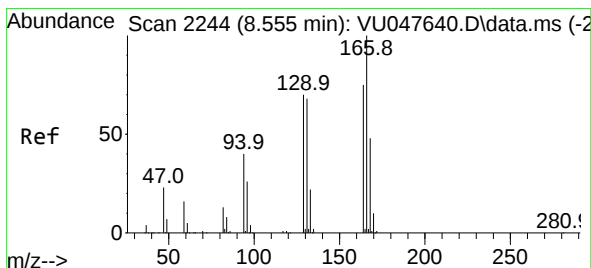
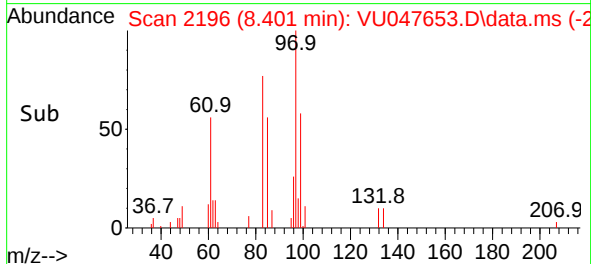
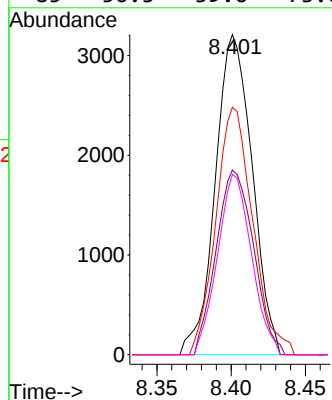
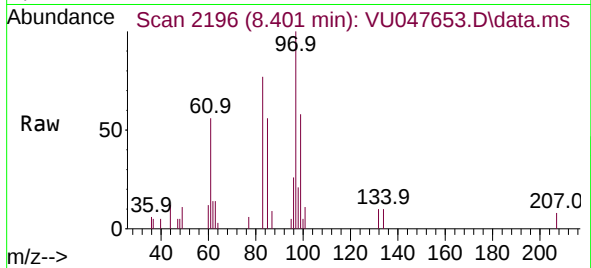




#45
1,1,2-Trichloroethane
Concen: 2.861 ug/L
RT: 8.401 min Scan# 2196
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

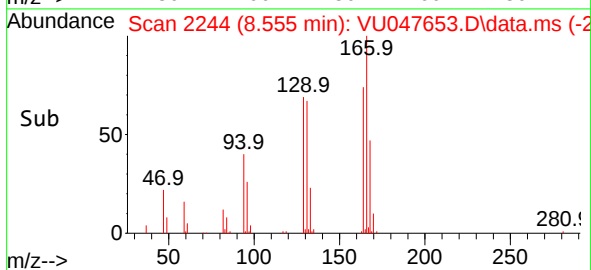
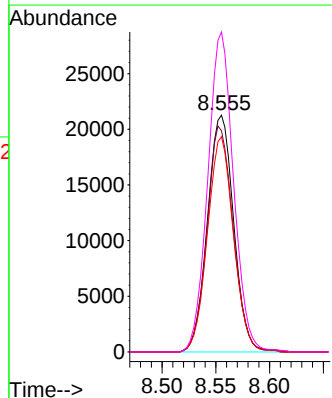
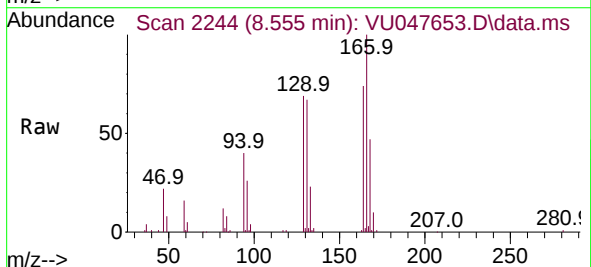
Instrument :
MSVOA_U
ClientSampleId :

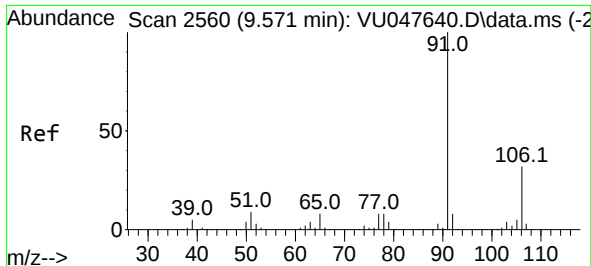
Tgt Ion:	97	Resp:	5548
Ion	Ratio	Lower	Upper
97	100		
99	57.7	43.3	80.3
83	77.3	61.0	113.4
85	56.3	39.6	73.6



#46
Tetrachloroethene
Concen: 21.339 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

Tgt Ion:	164	Resp:	36163
Ion	Ratio	Lower	Upper
164	100		
129	93.5	62.4	116.0
131	90.9	60.7	112.7
166	135.2	89.0	165.4

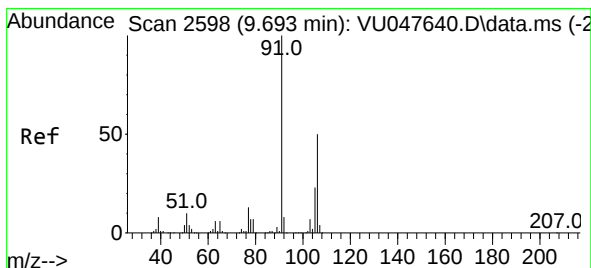
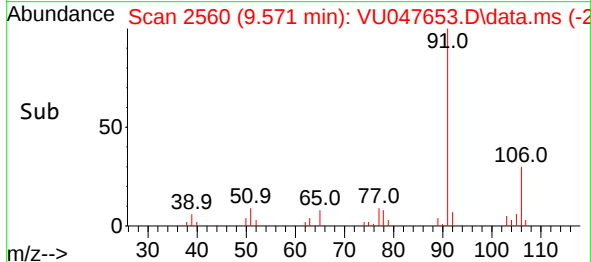
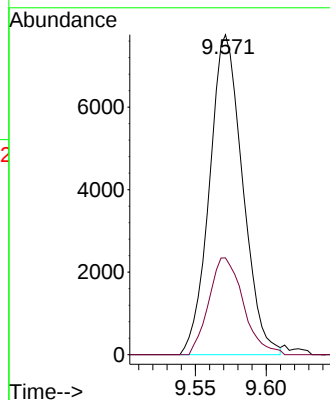
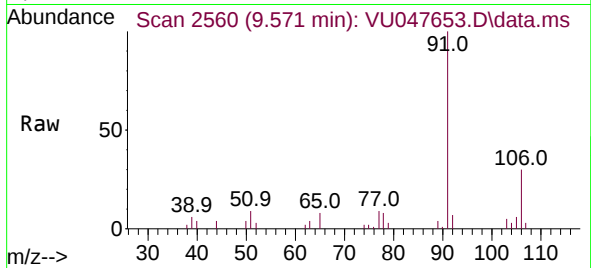




#52
Ethylbenzene
Concen: 1.520 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

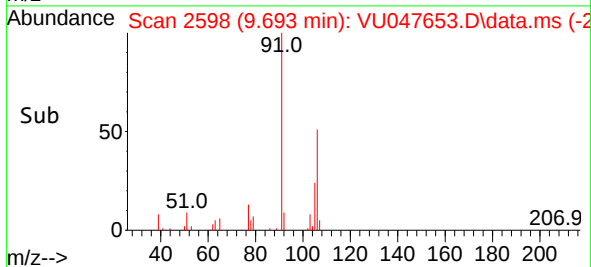
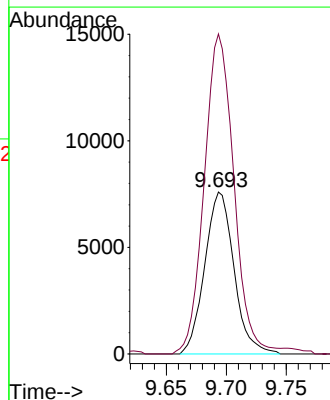
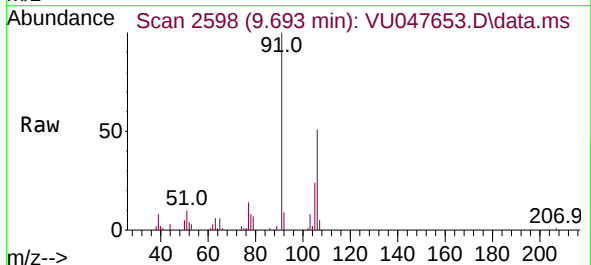
Instrument :
MSVOA_U
ClientSampleId :

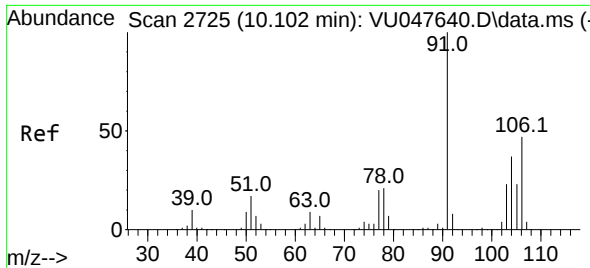
Tgt Ion: 91 Resp: 12617
Ion Ratio Lower Upper
91 100
106 32.9 22.4 41.6



#53
m,p-Xylene
Concen: 3.956 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

Tgt Ion: 106 Resp: 12881
Ion Ratio Lower Upper
106 100
91 197.6 137.7 255.7

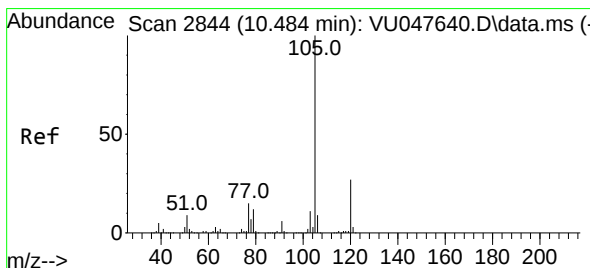
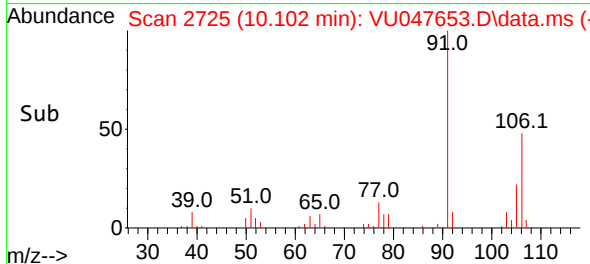
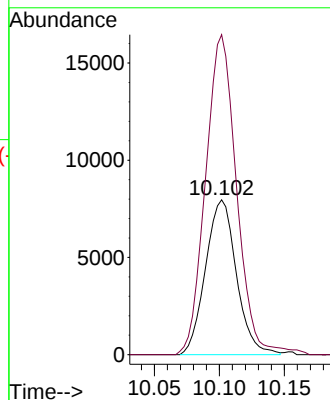
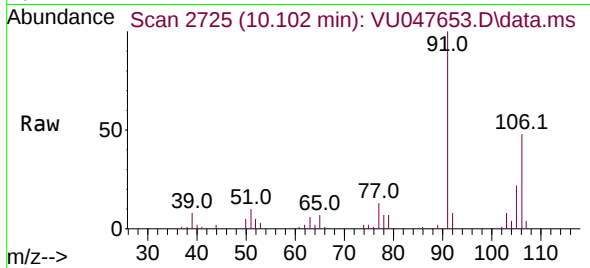




#54
o-Xylene
Concen: 4.121 ug/L
RT: 10.102 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

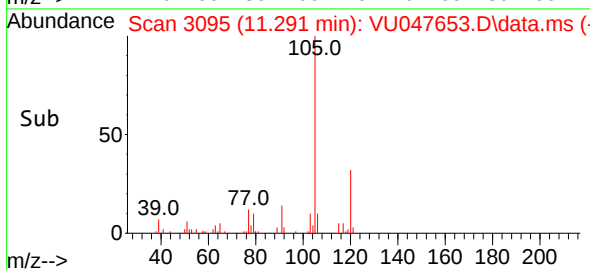
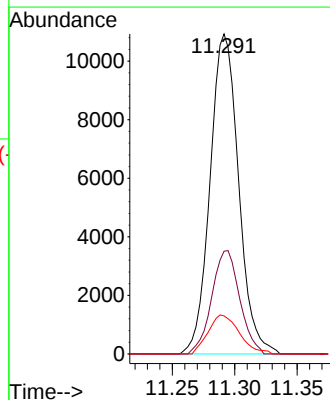
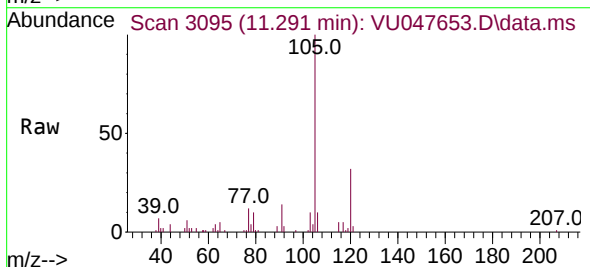
Instrument :
MSVOA_U
ClientSampleId :

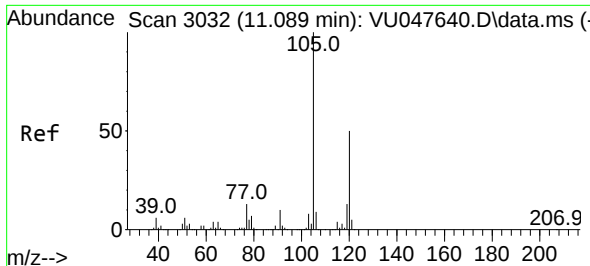
Tgt Ion:106 Resp: 13171
Ion Ratio Lower Upper
106 100
91 206.6 146.7 272.5



#61
Isopropylbenzene
Concen: 2.419 ug/L
RT: 11.291 min Scan# 3095
Delta R.T. 0.807 min
Lab File: VU047653.D
Acq: 24 Mar 2022 23:24

Tgt Ion:105 Resp: 17425
Ion Ratio Lower Upper
105 100
120 31.6 21.9 32.9
77 13.3 12.1 18.1





#62

1,3,5-Trimethylbenzene

Concen: 3.986 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VU047653.D

Acq: 24 Mar 2022 23:24

Instrument :

MSVOA_U

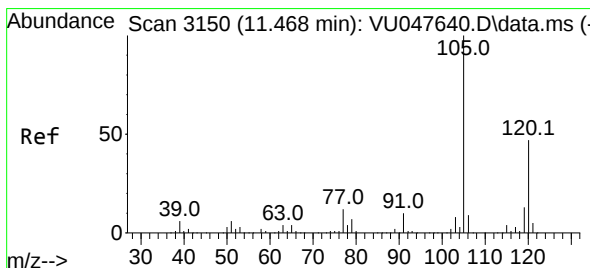
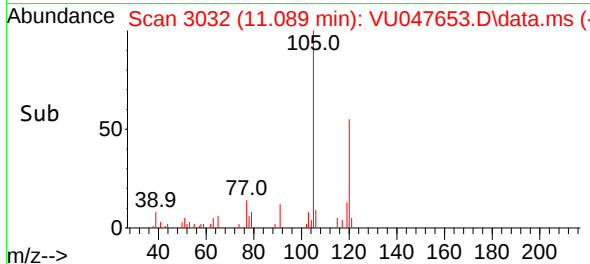
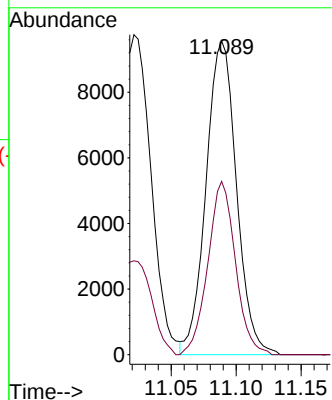
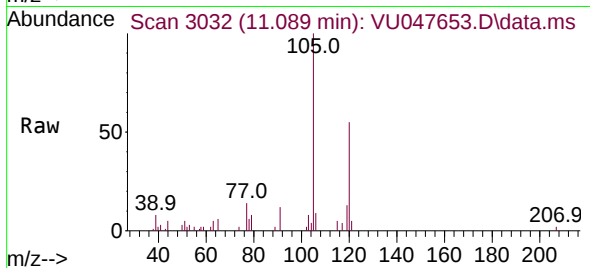
ClientSampleId :

Tgt Ion:105 Resp: 15575

Ion Ratio Lower Upper

105 100

120 50.1 40.8 61.2



#63

1,2,4-Trimethylbenzene

Concen: 5.576 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU047653.D

Acq: 24 Mar 2022 23:24

Tgt Ion:105 Resp: 33097

Ion Ratio Lower Upper

105 100

120 45.8 37.6 56.4

