

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100121\
 Data File : VU045066.D
 Acq On : 01 Oct 2021 12:32
 Operator : SY/MD
 Sample : M3966-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 02 03:10:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U092821W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 28 12:32:13 2021
 Response via : Initial Calibration

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

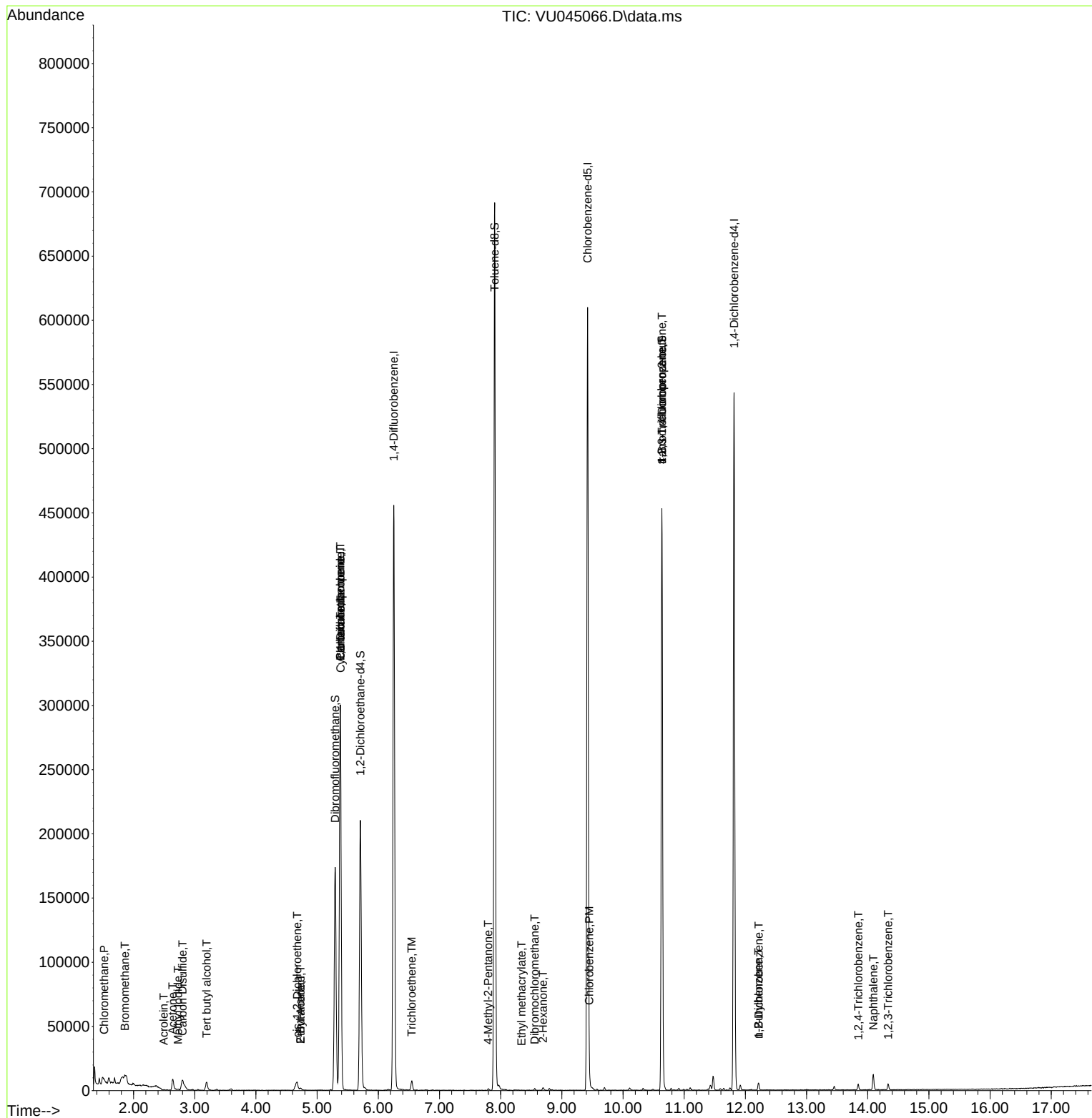
Internal Standards						
1) Pentafluorobenzene	5.379	168	197335	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	357405	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	319591	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	133576	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.707	65	160334	48.810	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.620%		
35) Dibromofluoromethane	5.295	113	111918	49.639	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.280%		
50) Toluene-d8	7.903	98	444503	49.897	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.800%		
62) 4-Bromofluorobenzene	10.636	95	151781	41.269	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	82.540%#		
Target Compounds						Qvalue
3) Chloromethane	1.520	50	1139	0.360	ug/l	96
5) Bromomethane	1.858	94	1005	0.811	ug/l	90
10) Methyl Iodide	2.729	142	865	0.341	ug/l #	88
11) Tert butyl alcohol	3.195	59	4615	4.895	ug/l #	72
13) Acrolein	2.494	56	67	3.485	ug/l #	80
16) Acetone	2.639	43	12460	6.390	ug/l	93
17) Carbon Disulfide	2.800	76	2935	0.425	ug/l #	92
25) 2-Butanone	4.729	43	3380	1.220	ug/l	94
27) cis-1,2-Dichloroethene	4.674	96	2484	0.822	ug/l	96
31) Cyclohexane	5.382	56	5457	1.094	ug/l #	10
36) 1,1-Dichloropropene	5.379	75	18822	5.036	ug/l #	49
37) Ethyl Acetate	4.729	43	3380	0.683	ug/l #	69
38) Carbon Tetrachloride	5.379	117	20588	6.366	ug/l #	15
44) Trichloroethene	6.546	130	2522	0.961	ug/l	96
51) 4-Methyl-2-Pentanone	7.796	43	1316	0.243	ug/l #	74
56) Ethyl methacrylate	8.343	69	64	1.832	ug/l #	73
59) 2-Hexanone	8.690	43	1639	0.372	ug/l	92
60) Dibromochloromethane	8.555	129	247	2.253	ug/l #	10
65) Chlorobenzene	9.449	112	2340	0.349	ug/l	99
76) 1,2,3-Trichloropropane	10.636	75	82974	21.296	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.636	75	82974	59.101	ug/l #	9
89) n-Butylbenzene	12.214	91	1969	0.243	ug/l	93
91) 1,2-Dichlorobenzene	12.218	146	1616	0.344	ug/l	96
93) 1,2,4-Trichlorobenzene	13.848	180	1637	0.625	ug/l	95
95) Naphthalene	14.092	128	10763	1.092	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.333	180	1926	0.732	ug/l	86

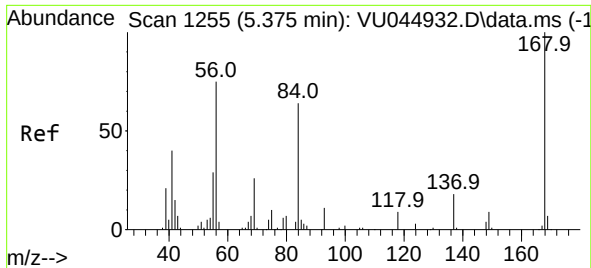
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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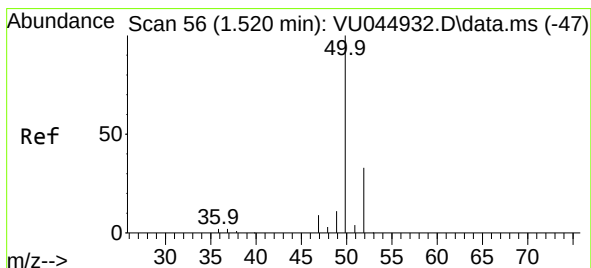
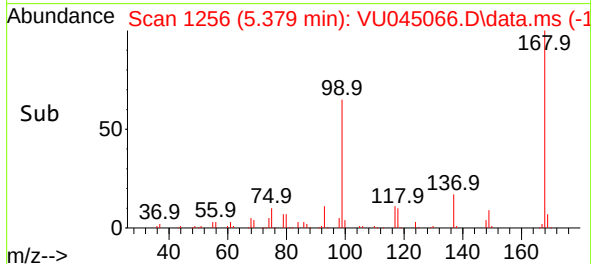
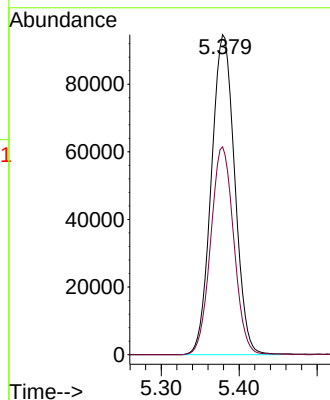
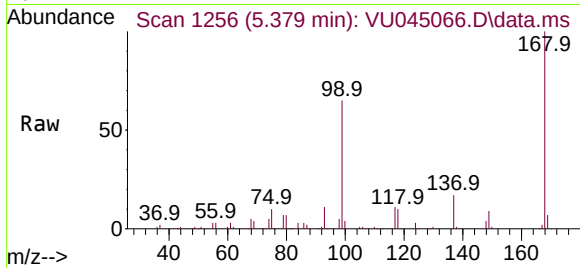




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. 0.004 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

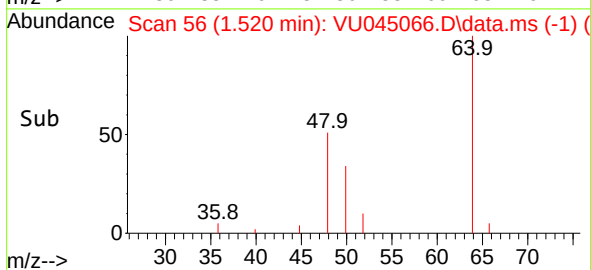
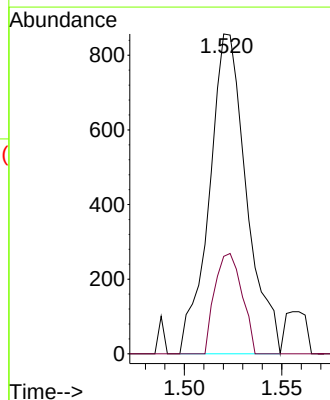
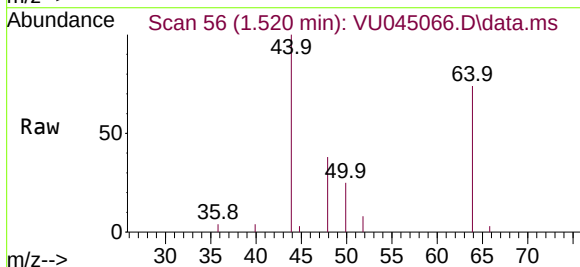
Instrument :
MSVOA_U
ClientSampled :

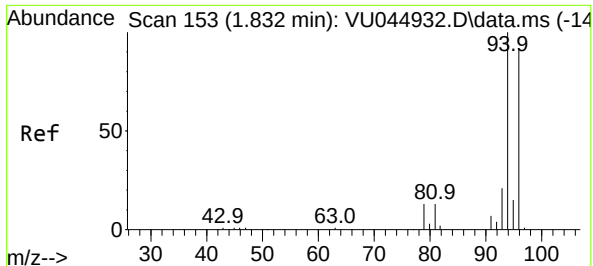
Tgt Ion:168 Resp: 197335
Ion Ratio Lower Upper
168 100
99 65.0 51.4 77.0



#3
Chloromethane
Concen: 0.360 ug/l
RT: 1.520 min Scan# 56
Delta R.T. 0.000 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 50 Resp: 1139
Ion Ratio Lower Upper
50 100
52 30.5 26.3 39.5

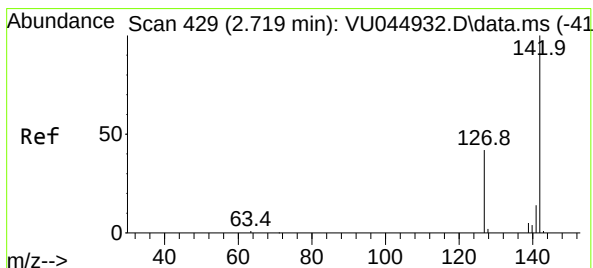
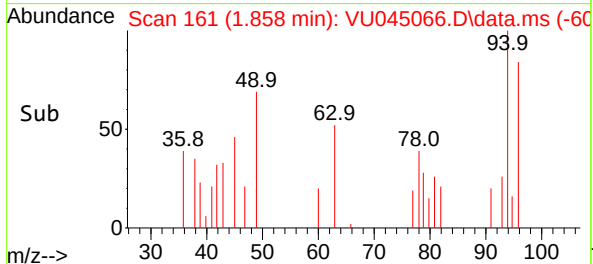
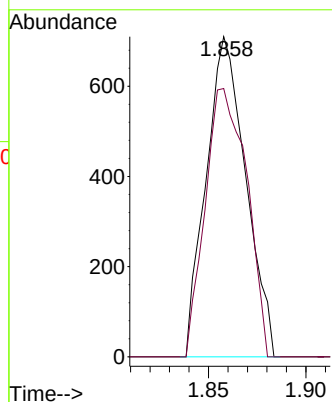
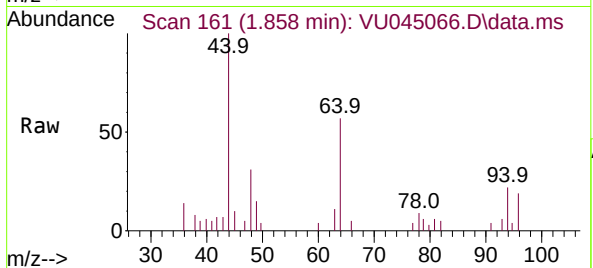




#5
Bromomethane
Concen: 0.811 ug/l
RT: 1.858 min Scan# 161
Delta R.T. 0.026 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

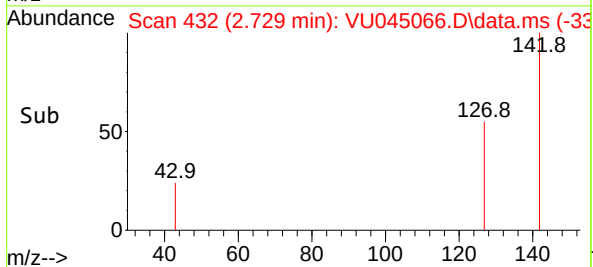
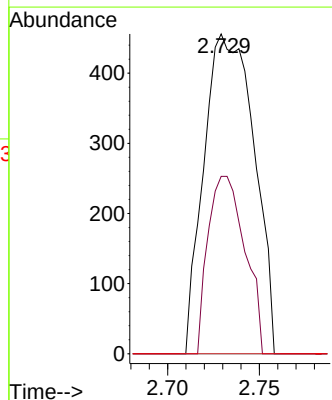
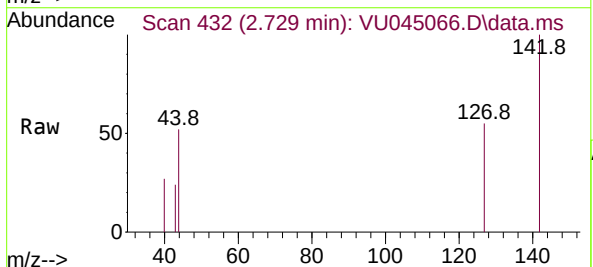
Instrument :
MSVOA_U
ClientSampleId :

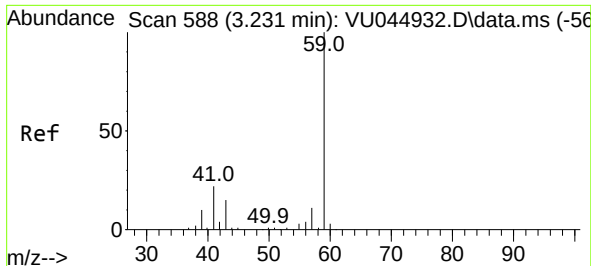
Tgt Ion: 94 Resp: 1005
Ion Ratio Lower Upper
94 100
96 83.8 74.5 111.7



#10
Methyl Iodide
Concen: 0.341 ug/l
RT: 2.729 min Scan# 432
Delta R.T. 0.010 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 142 Resp: 865
Ion Ratio Lower Upper
142 100
127 40.9 35.6 53.4
141 0.0 11.3 16.9#



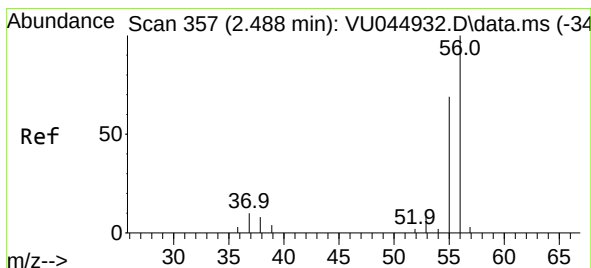
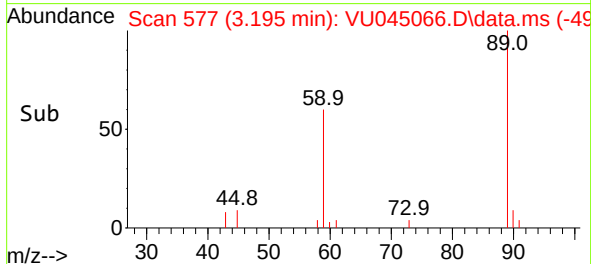
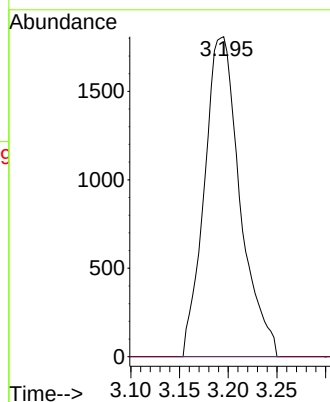
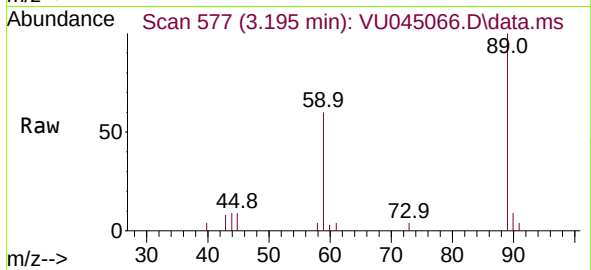


#11

Tert butyl alcohol
Concen: 4.895 ug/l
RT: 3.195 min Scan# 577
Delta R.T. -0.036 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Instrument :
MSVOA_U
ClientSampleId :

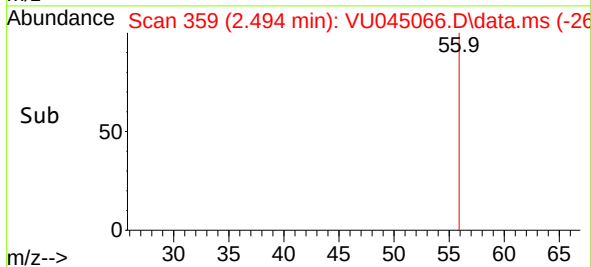
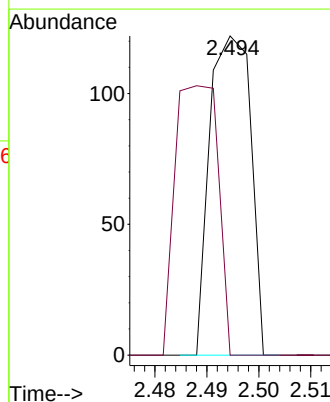
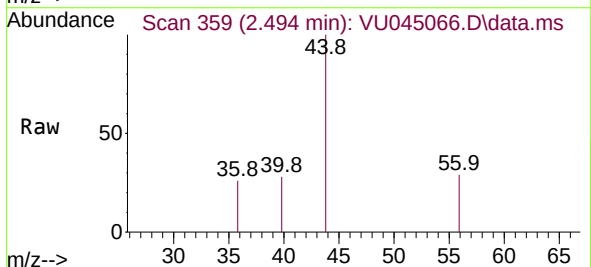
Tgt Ion: 59 Resp: 4615
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

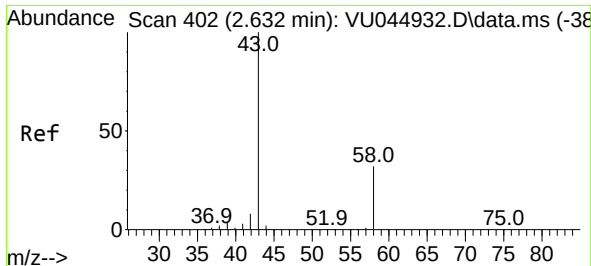


#13

Acrolein
Concen: 3.485 ug/l
RT: 2.494 min Scan# 359
Delta R.T. 0.006 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 88.1 57.4 86.0#

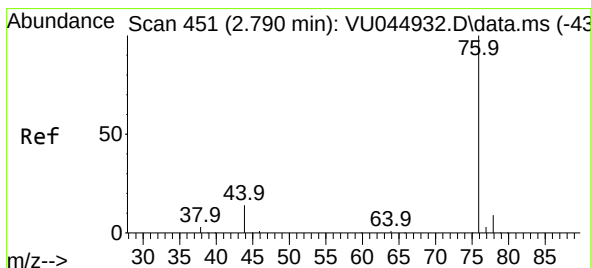
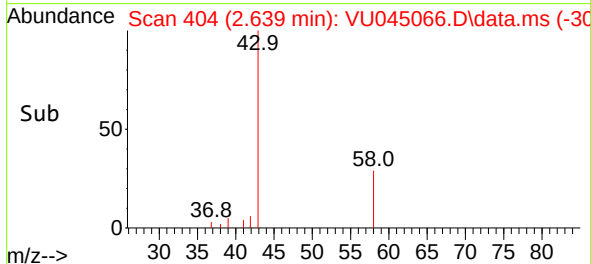
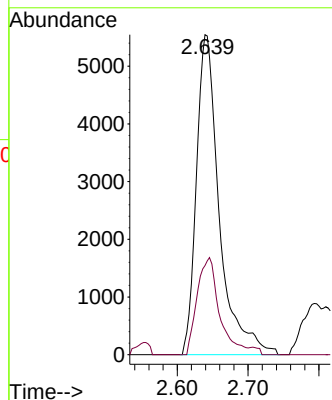
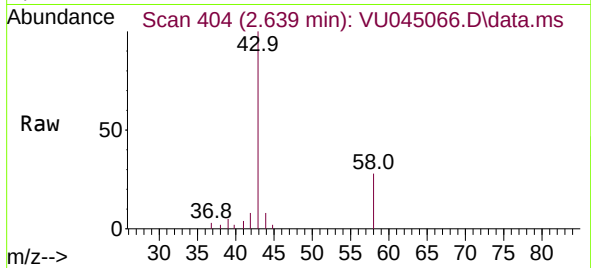




#16
Acetone
Concen: 6.390 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.007 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

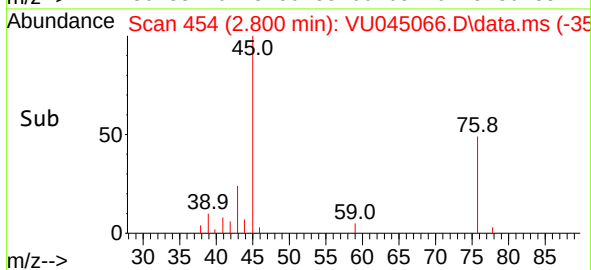
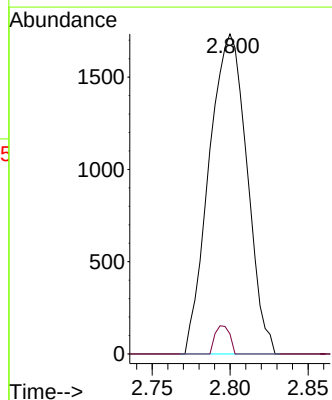
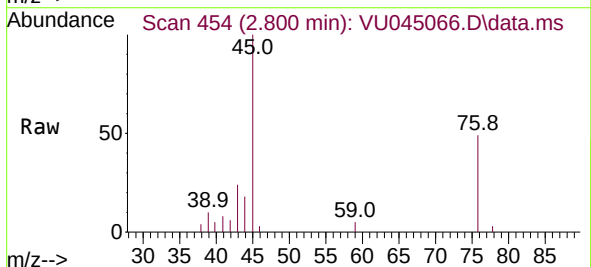
Instrument :
MSVOA_U
ClientSampled :

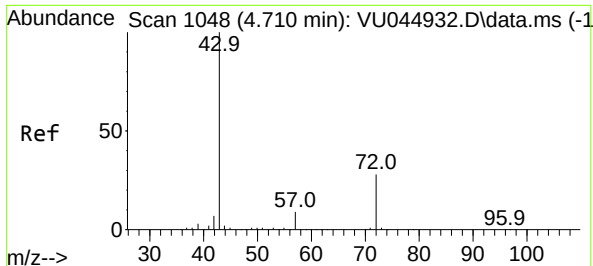
Tgt Ion: 43 Resp: 12460
Ion Ratio Lower Upper
43 100
58 27.9 25.2 37.8



#17
Carbon Disulfide
Concen: 0.425 ug/l
RT: 2.800 min Scan# 454
Delta R.T. 0.010 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 76 Resp: 2935
Ion Ratio Lower Upper
76 100
78 6.2 7.4 11.0#





#25

2-Butanone

Concen: 1.220 ug/l

RT: 4.729 min Scan# 1054

Delta R.T. 0.019 min

Lab File: VU045066.D

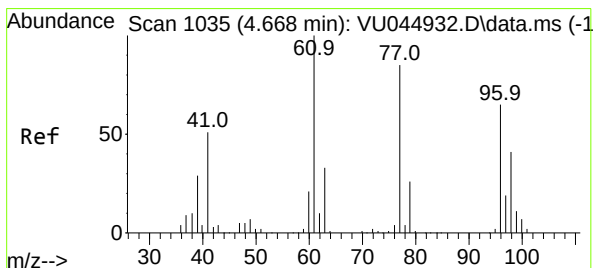
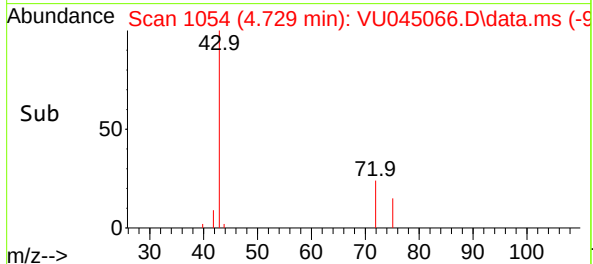
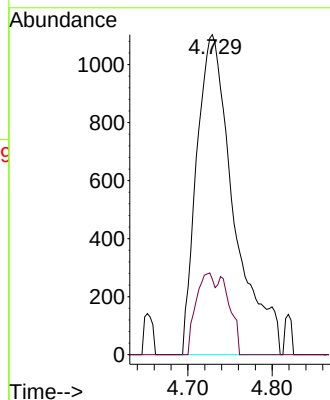
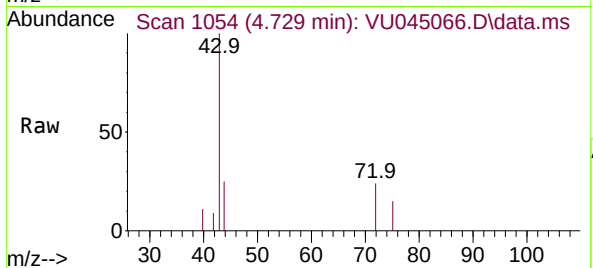
Acq: 01 Oct 2021 12:32

Tgt Ion: 43 Resp: 3380

Ion Ratio Lower Upper

43 100

72 23.6 21.3 31.9



#27

cis-1,2-Dichloroethene

Concen: 0.822 ug/l

RT: 4.674 min Scan# 1037

Delta R.T. 0.006 min

Lab File: VU045066.D

Acq: 01 Oct 2021 12:32

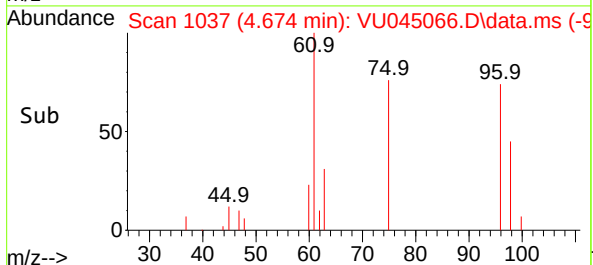
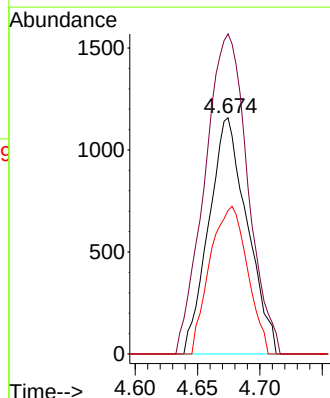
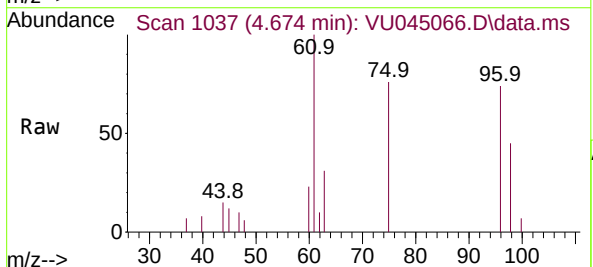
Tgt Ion: 96 Resp: 2484

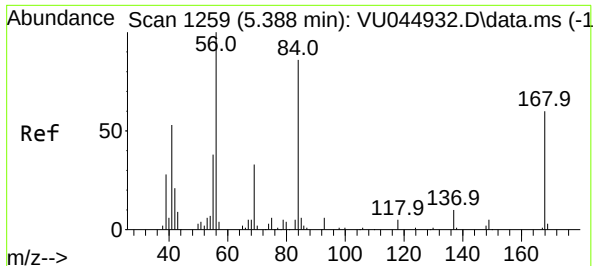
Ion Ratio Lower Upper

96 100

61 151.4 0.0 313.4

98 61.0 0.0 127.0





#31

Cyclohexane

Concen: 1.094 ug/l

RT: 5.382 min Scan# 1257

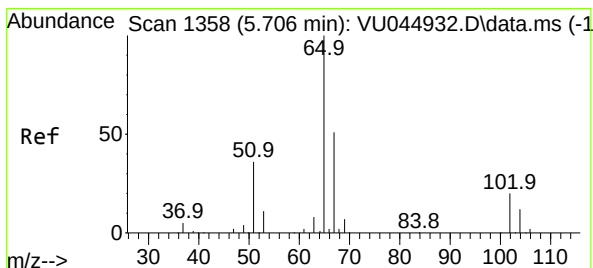
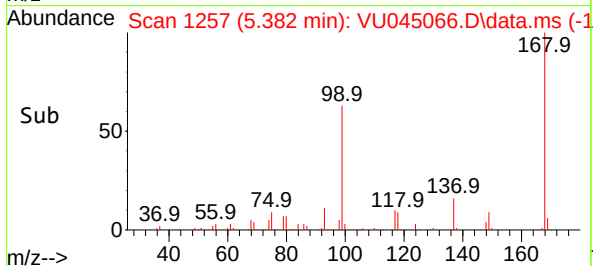
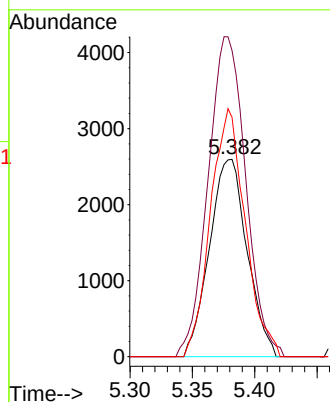
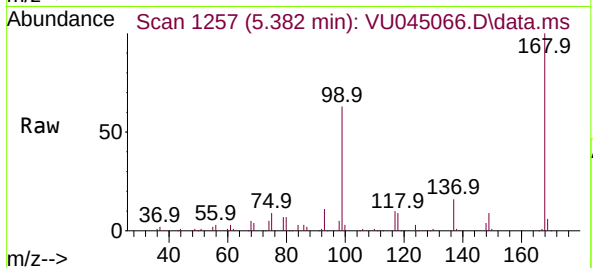
Delta R.T. -0.006 min

Lab File: VU045066.D

Acq: 01 Oct 2021 12:32

Tgt Ion:	56	Resp:	5457
Ion	Ratio	Lower	Upper
56	100		
69	150.6	25.2	37.8#
84	121.3	66.4	99.6#

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MSVOA_U
ClientSampleId :



#33

1,2-Dichloroethane-d4

Concen: 48.810 ug/l

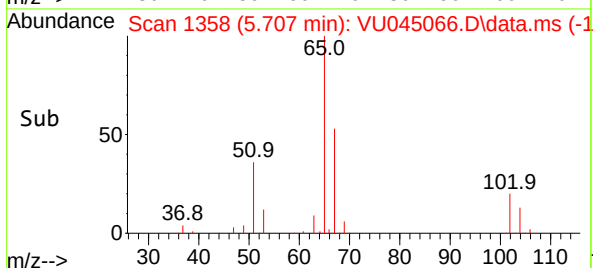
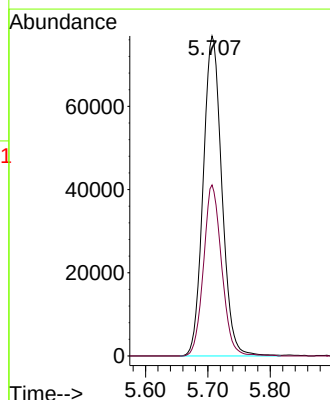
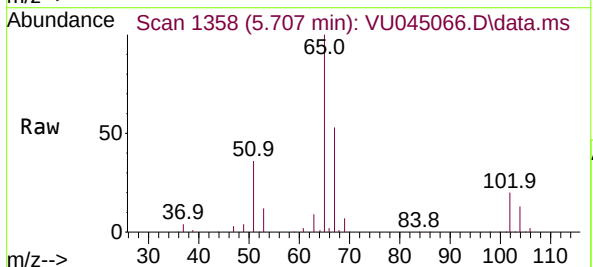
RT: 5.707 min Scan# 1358

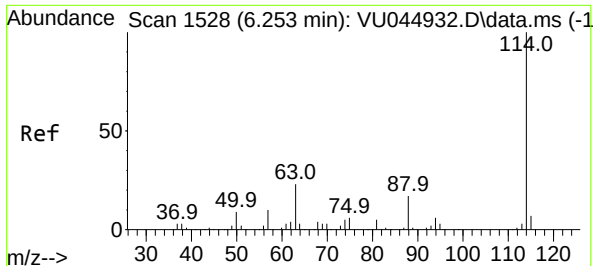
Delta R.T. 0.001 min

Lab File: VU045066.D

Acq: 01 Oct 2021 12:32

Tgt Ion:	65	Resp:	160334
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045066.D

Acq: 01 Oct 2021 12:32

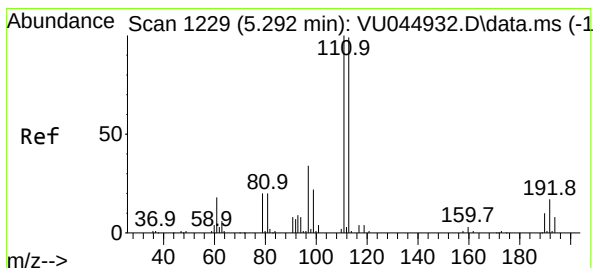
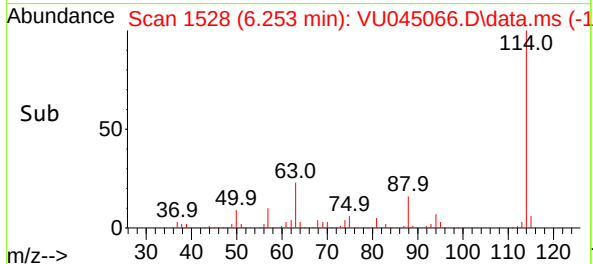
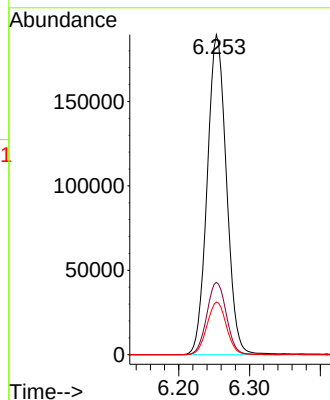
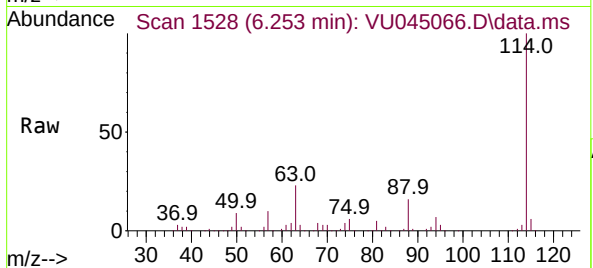
Tgt Ion:114 Resp: 357405

Ion Ratio Lower Upper

114 100

63 22.6 0.0 47.8

88 16.5 0.0 32.8



#35

Dibromofluoromethane

Concen: 49.639 ug/l

RT: 5.295 min Scan# 1230

Delta R.T. 0.003 min

Lab File: VU045066.D

Acq: 01 Oct 2021 12:32

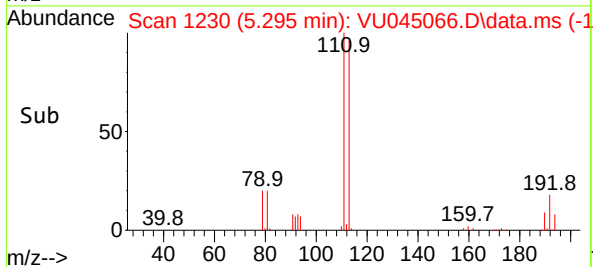
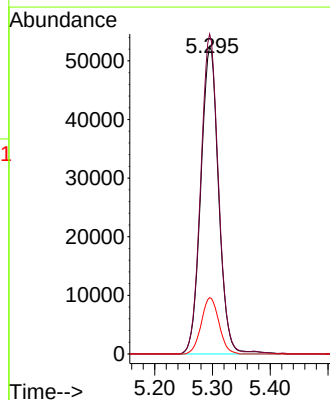
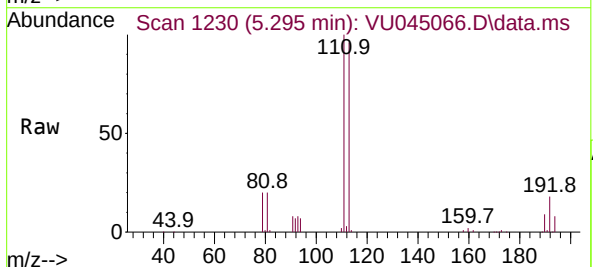
Tgt Ion:113 Resp: 111918

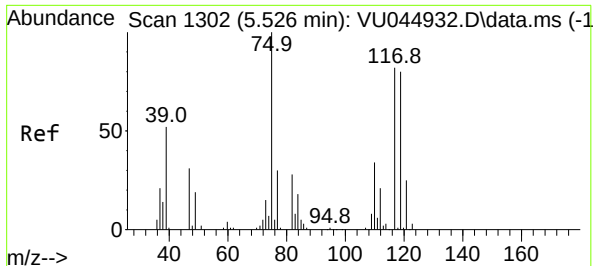
Ion Ratio Lower Upper

113 100

111 103.3 84.1 126.1

192 18.2 14.8 22.2

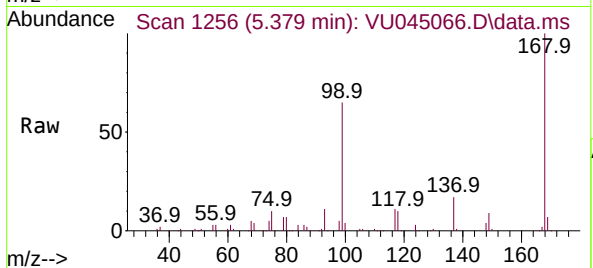




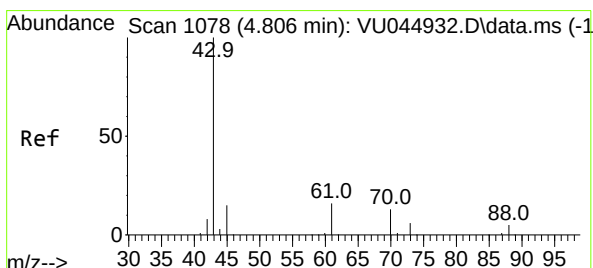
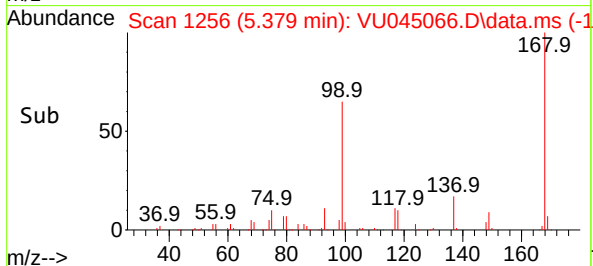
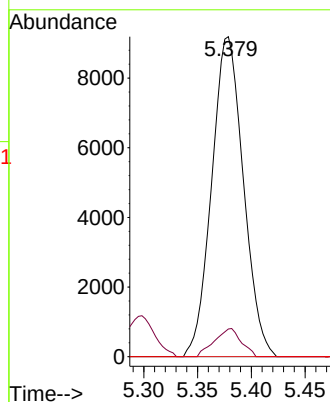
#36

1,1-Dichloropropene
Concen: 5.036 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. -0.147 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Instrument :
MSVOA_U
ClientSampled :

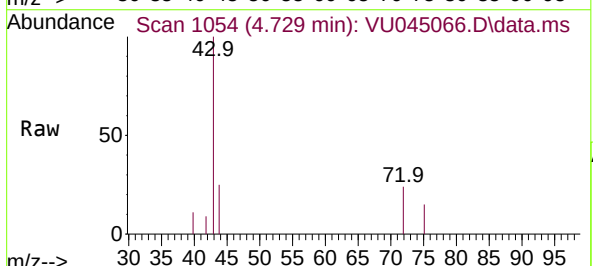


Tgt Ion:	75	Resp:	18822
Ion	Ratio	Lower	Upper
75	100		
110	7.4	16.3	48.9#
77	0.0	25.0	37.4#

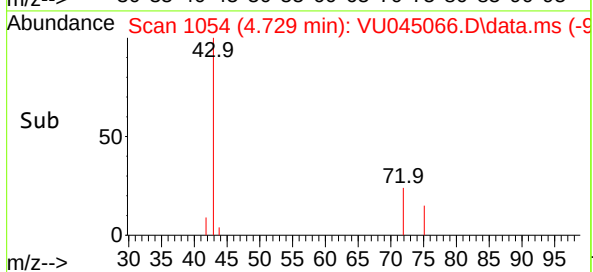
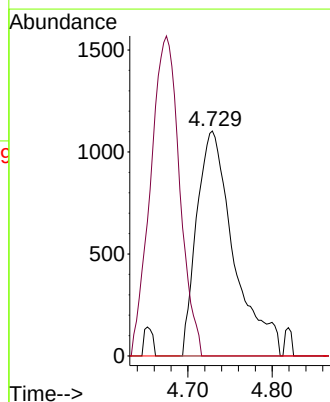


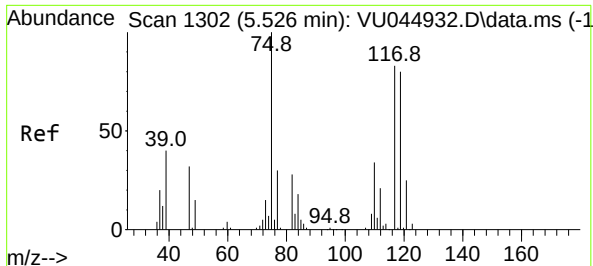
#37

Ethyl Acetate
Concen: 0.683 ug/l
RT: 4.729 min Scan# 1054
Delta R.T. -0.077 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32



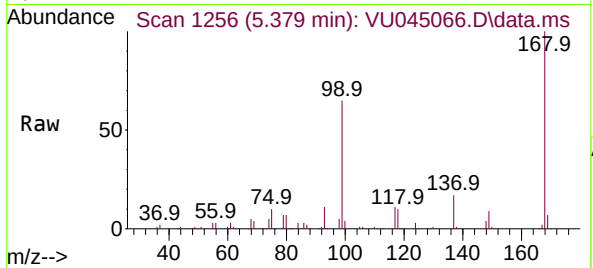
Tgt Ion:	43	Resp:	3380
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	8.2	12.4#



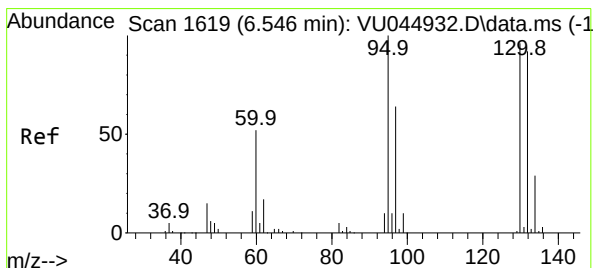
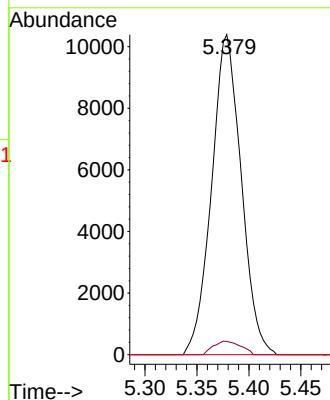
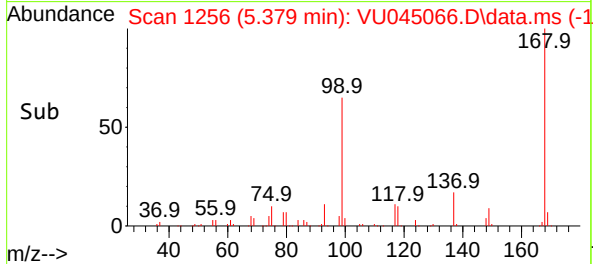


#38
Carbon Tetrachloride
Concen: 6.366 ug/l
RT: 5.379 min Scan# 1256
Delta R.T. -0.147 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

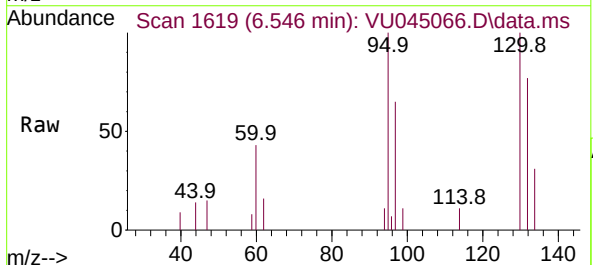
Instrument :
MSVOA_U
ClientSampleId :



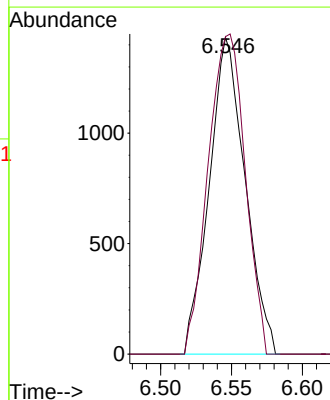
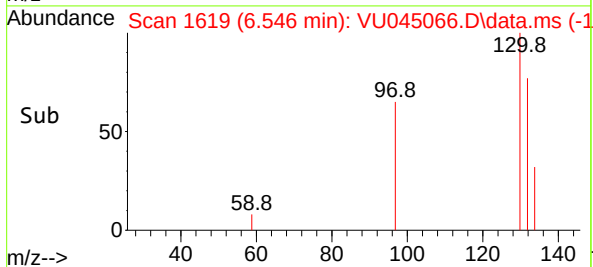
Tgt Ion:117 Resp: 20588
Ion Ratio Lower Upper
117 100
119 4.2 77.4 116.2#
121 0.0 24.5 36.7#

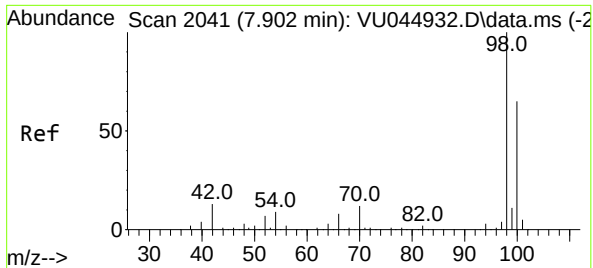


#44
Trichloroethene
Concen: 0.961 ug/l
RT: 6.546 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32



Tgt Ion:130 Resp: 2522
Ion Ratio Lower Upper
130 100
95 100.3 0.0 209.0

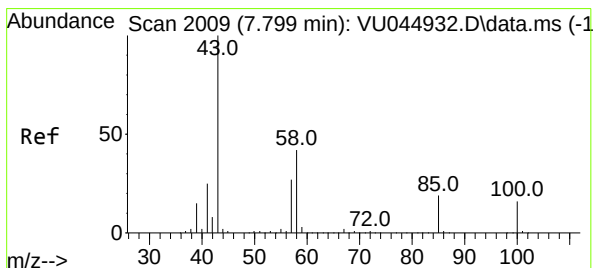
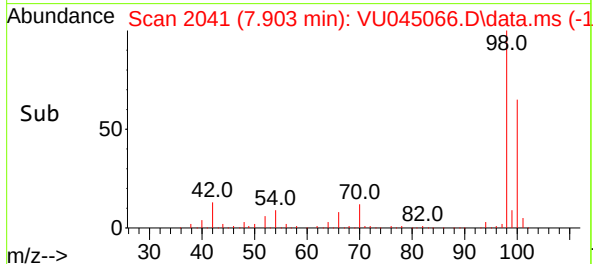
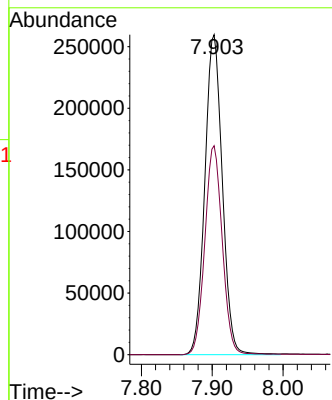
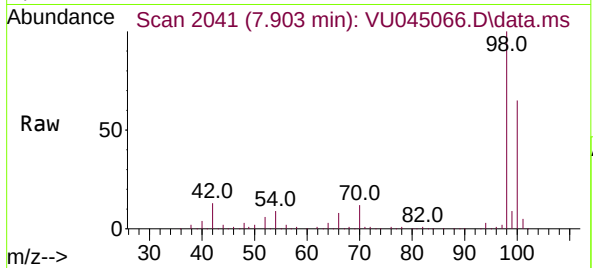




#50
Toluene-d8
Concen: 49.897 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.001 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

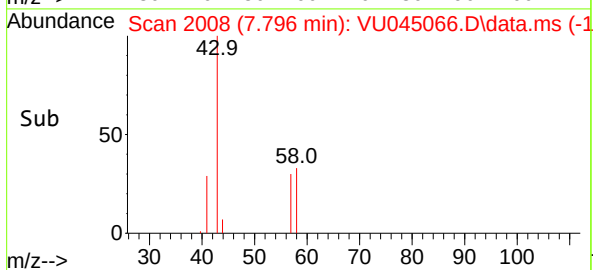
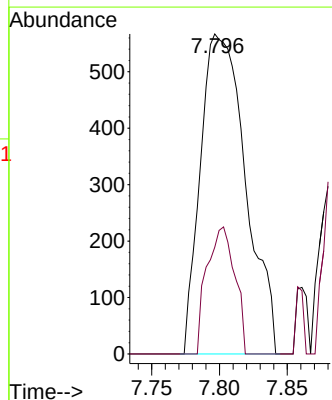
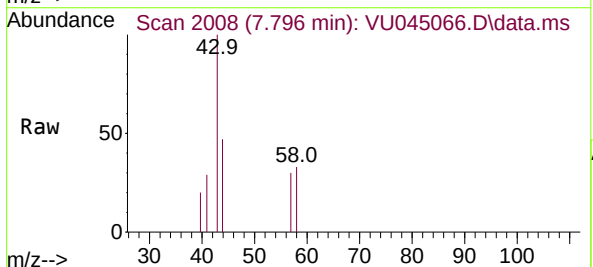
Instrument :
MSVOA_U
ClientSampled :

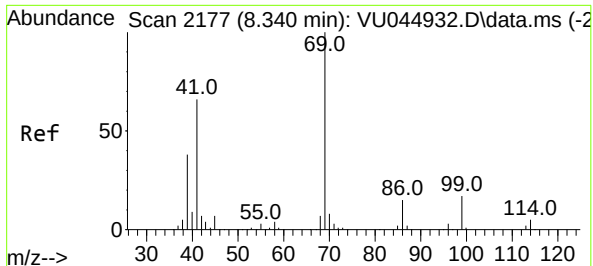
Tgt Ion: 98 Resp: 444503
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 0.243 ug/l
RT: 7.796 min Scan# 2008
Delta R.T. -0.003 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 43 Resp: 1316
Ion Ratio Lower Upper
43 100
58 24.4 32.4 48.6#

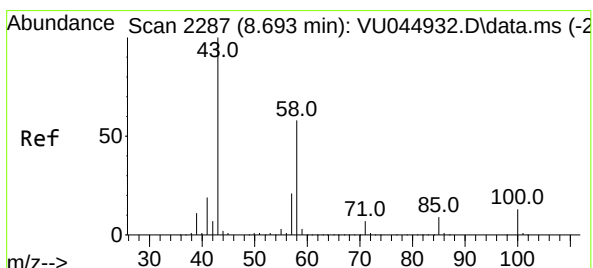
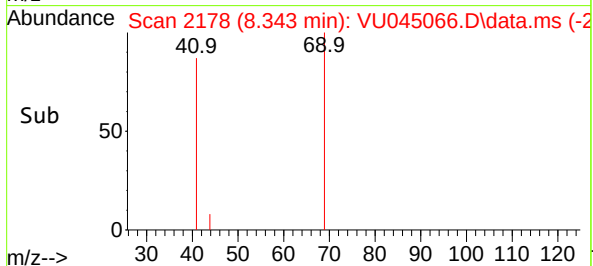
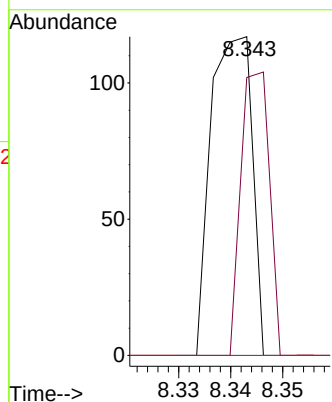
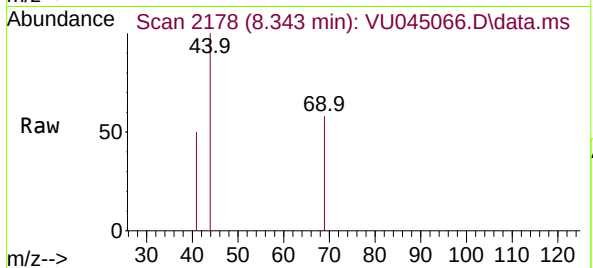




#56
Ethyl methacrylate
Concen: 1.832 ug/l
RT: 8.343 min Scan# 2178
Delta R.T. 0.003 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

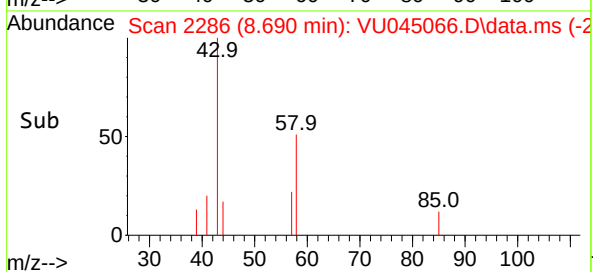
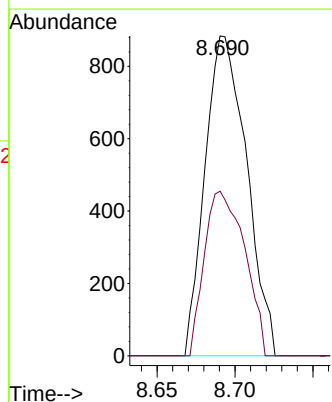
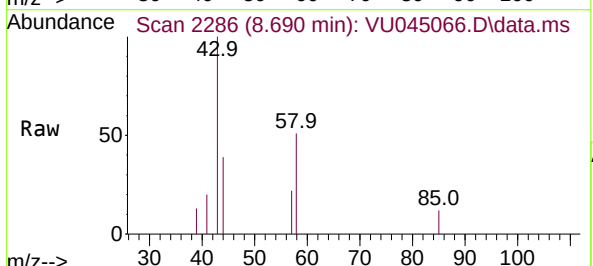
Instrument :
MSVOA_U
ClientSampled :

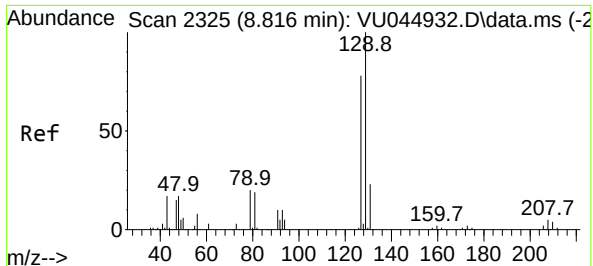
Tgt Ion: 69 Resp: 64
Ion Ratio Lower Upper
69 100
41 62.5 53.5 80.3
39 0.0 31.1 46.7#



#59
2-Hexanone
Concen: 0.372 ug/l
RT: 8.690 min Scan# 2286
Delta R.T. -0.003 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 43 Resp: 1639
Ion Ratio Lower Upper
43 100
58 49.9 28.0 84.0

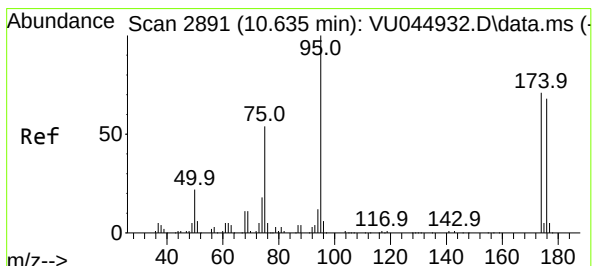
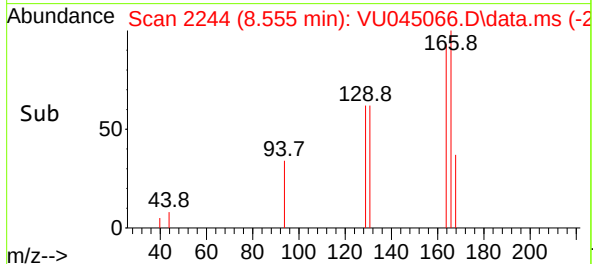
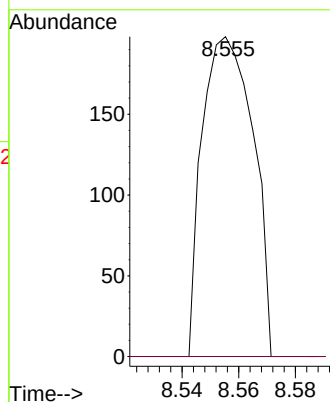
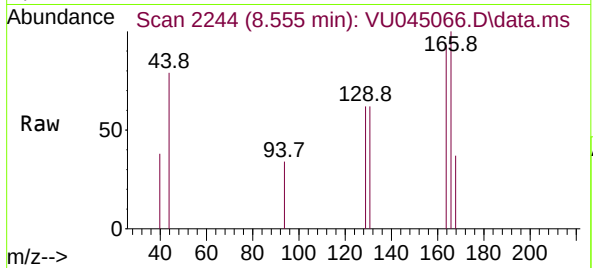




#60
Dibromochloromethane
Concen: 2.253 ug/l
RT: 8.555 min Scan# 2244
Delta R.T. -0.261 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

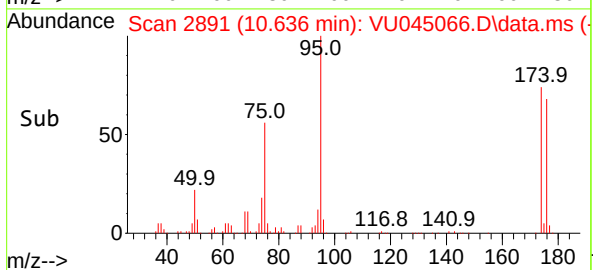
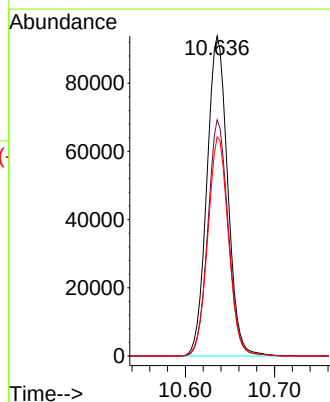
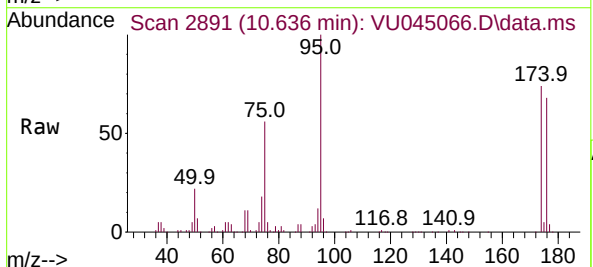
Instrument :
MSVOA_U
ClientSampled :

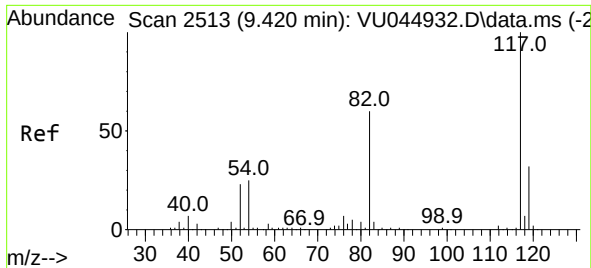
Tgt Ion:129 Resp: 247
Ion Ratio Lower Upper
129 100
127 0.0 39.0 117.0#



#62
4-Bromofluorobenzene
Concen: 41.269 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.001 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 95 Resp: 151781
Ion Ratio Lower Upper
95 100
174 72.6 0.0 146.6
176 68.0 0.0 141.2

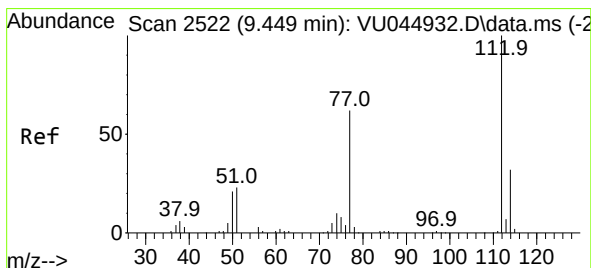
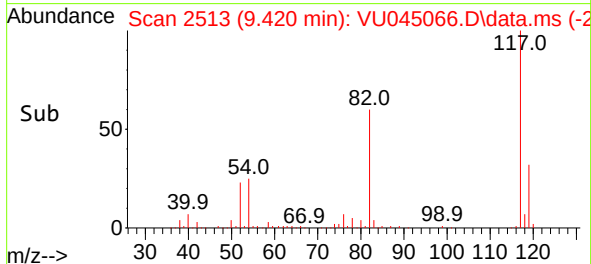
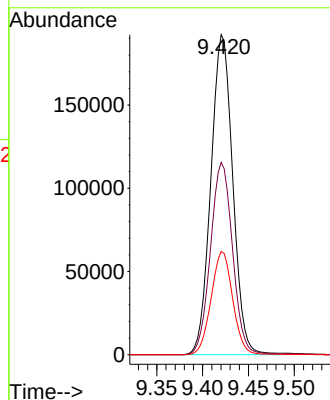
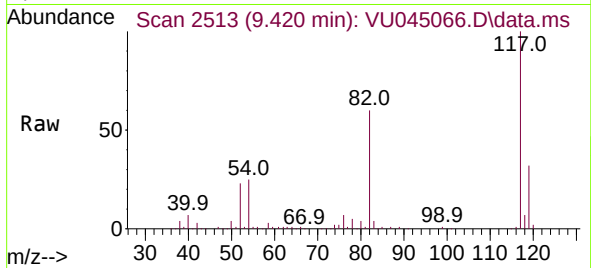




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

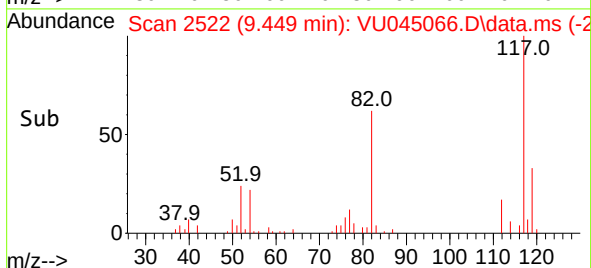
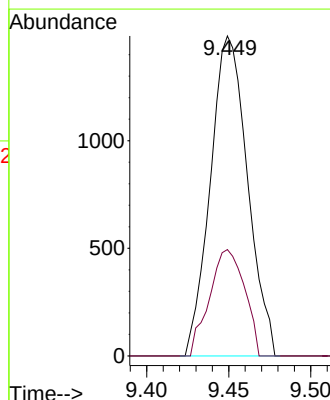
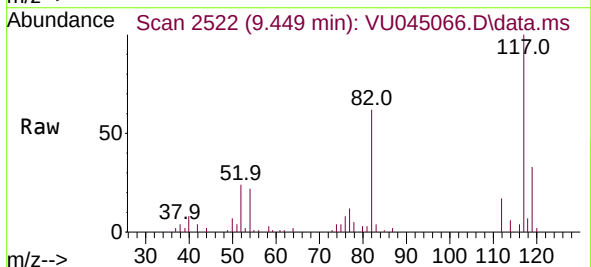
Instrument :
MSVOA_U
ClientSampleId :

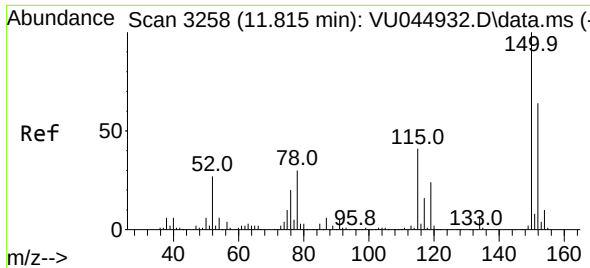
Tgt Ion:117 Resp: 319591
Ion Ratio Lower Upper
117 100
82 60.1 47.8 71.8
119 32.2 25.8 38.6



#65
Chlorobenzene
Concen: 0.349 ug/l
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion:112 Resp: 2340
Ion Ratio Lower Upper
112 100
114 33.2 25.9 38.9

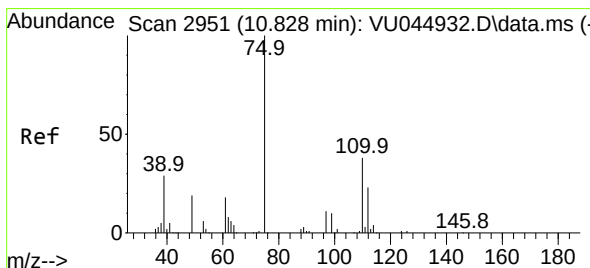
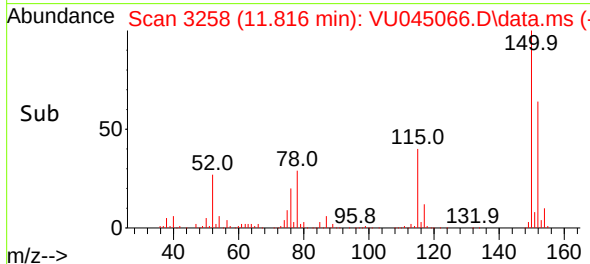
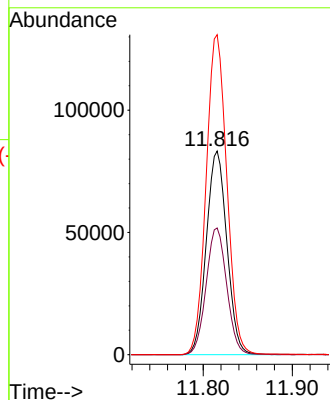
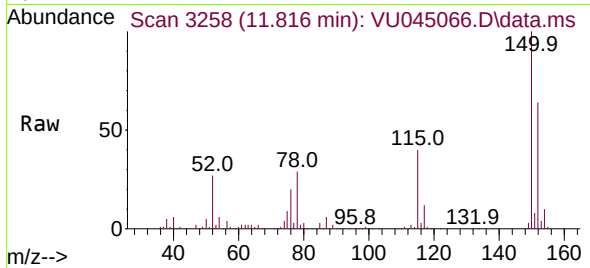




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.816 min Scan# 3258
 Delta R.T. 0.001 min
 Lab File: VU045066.D
 Acq: 01 Oct 2021 12:32

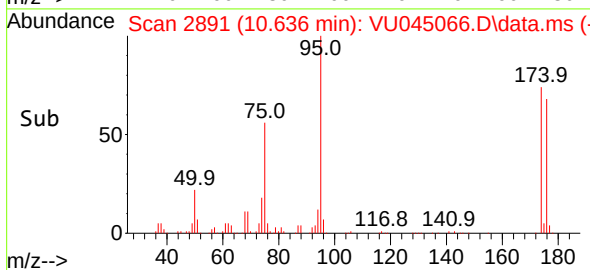
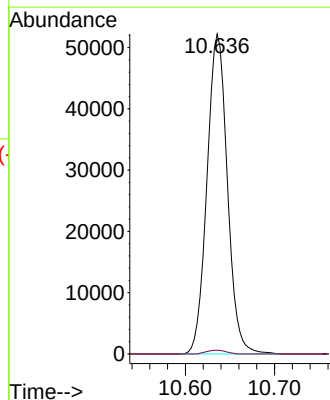
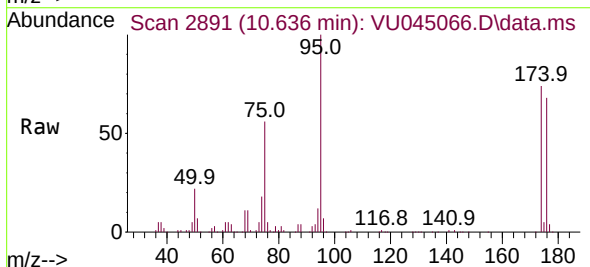
Instrument :
 MSVOA_U
 ClientSampled :

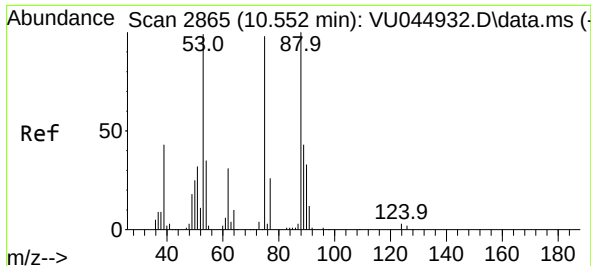
Tgt Ion:152 Resp: 133576
 Ion Ratio Lower Upper
 152 100
 115 62.3 43.5 130.7
 150 157.5 0.0 350.0



#76
 1,2,3-Trichloropropane
 Concen: 21.296 ug/l
 RT: 10.636 min Scan# 2891
 Delta R.T. -0.192 min
 Lab File: VU045066.D
 Acq: 01 Oct 2021 12:32

Tgt Ion: 75 Resp: 82974
 Ion Ratio Lower Upper
 75 100
 77 1.1 17.9 53.7#

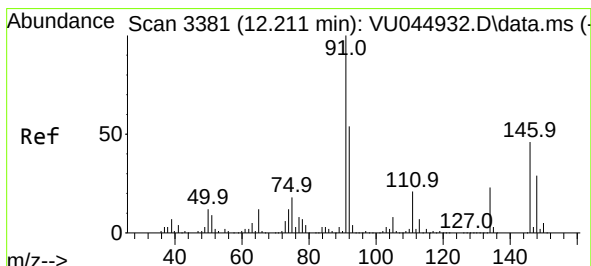
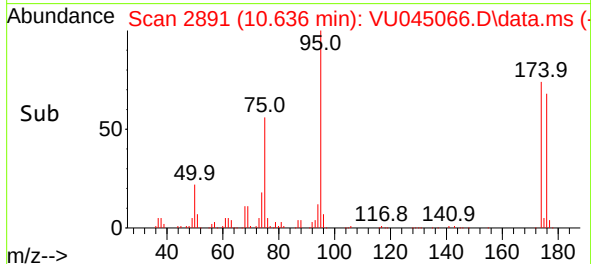
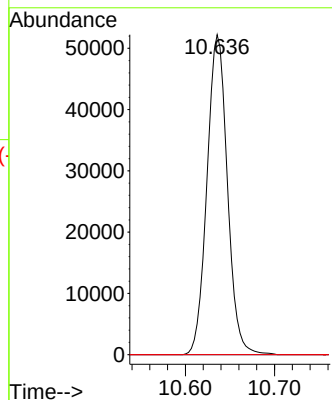
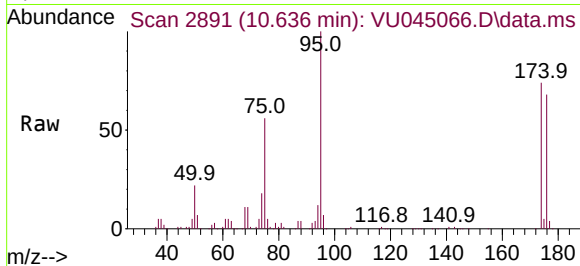




#81
trans-1,4-Dichloro-2-butene
Concen: 59.101 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.084 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

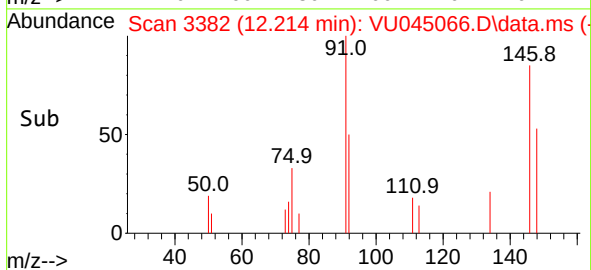
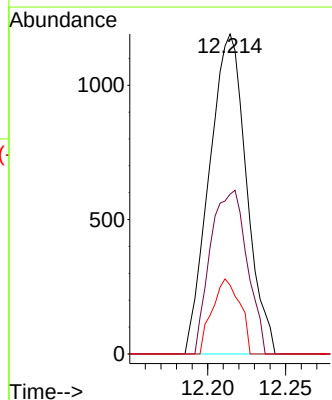
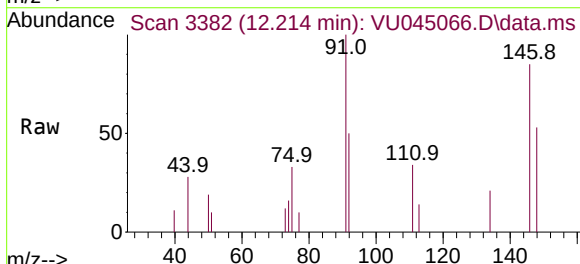
Instrument :
MSVOA_U
ClientSampled :

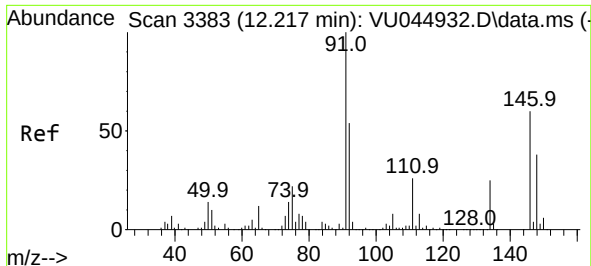
Tgt Ion: 75 Resp: 82974
Ion Ratio Lower Upper
75 100
53 0.0 82.0 123.0#
89 0.0 34.2 51.4#



#89
n-Butylbenzene
Concen: 0.243 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion: 91 Resp: 1969
Ion Ratio Lower Upper
91 100
92 50.3 26.8 80.4
134 17.4 11.8 35.4

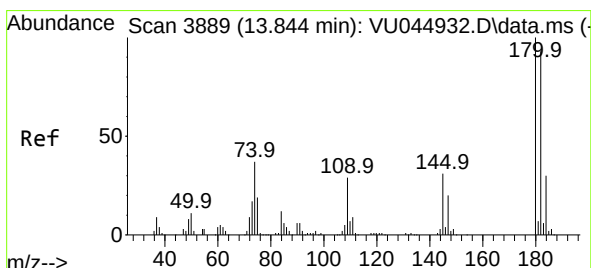
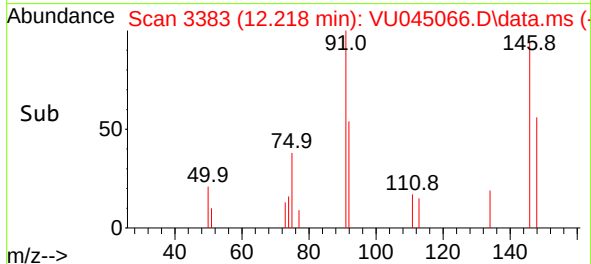
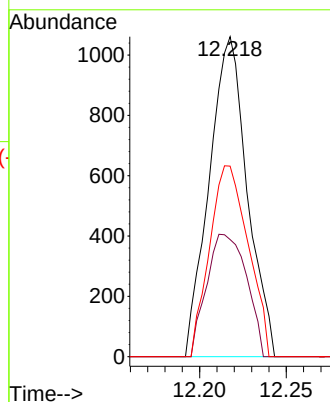
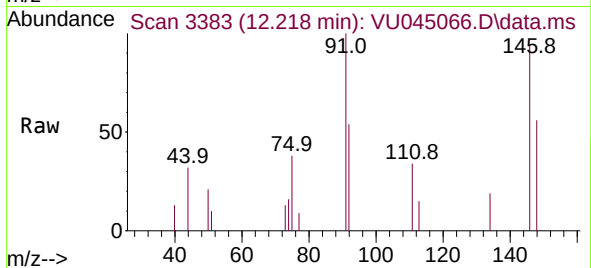




#91
1,2-Dichlorobenzene
Concen: 0.344 ug/l
RT: 12.218 min Scan# 3383
Delta R.T. 0.001 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

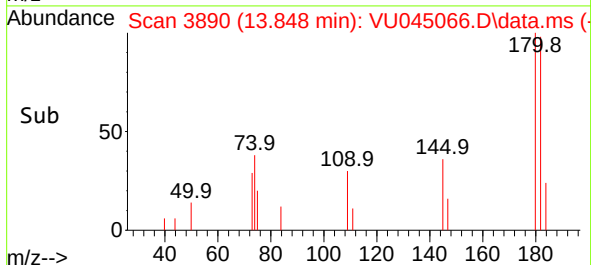
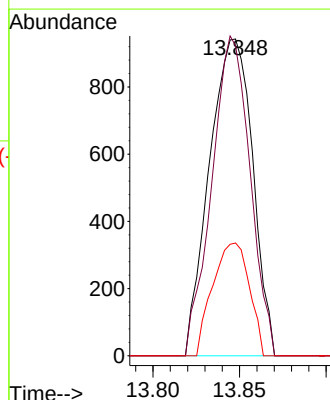
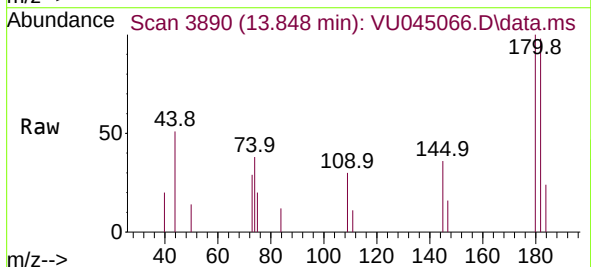
Instrument :
MSVOA_U
ClientSampled :

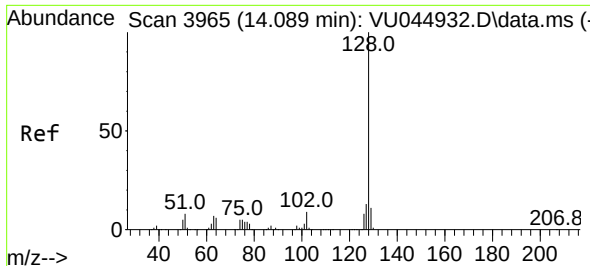
Tgt Ion:146 Resp: 1616
Ion Ratio Lower Upper
146 100
111 40.0 21.4 64.3
148 60.8 31.8 95.3



#93
1,2,4-Trichlorobenzene
Concen: 0.625 ug/l
RT: 13.848 min Scan# 3890
Delta R.T. 0.004 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion:180 Resp: 1637
Ion Ratio Lower Upper
180 100
182 89.2 47.4 142.3
145 30.2 15.4 46.2

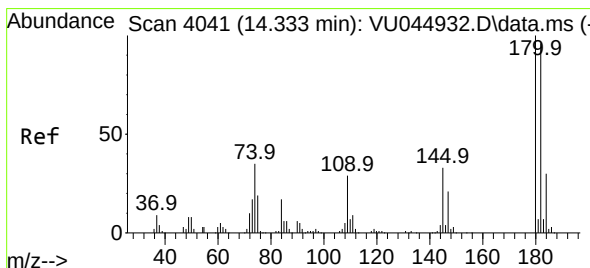
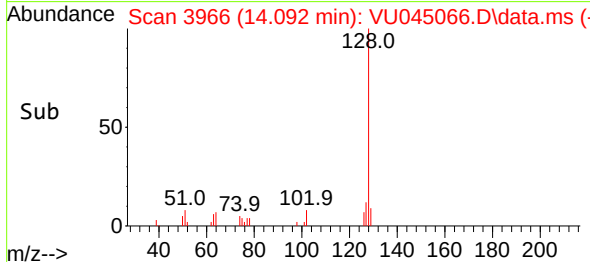
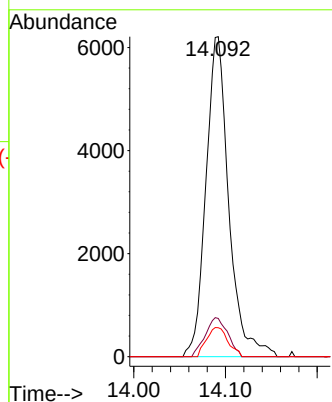
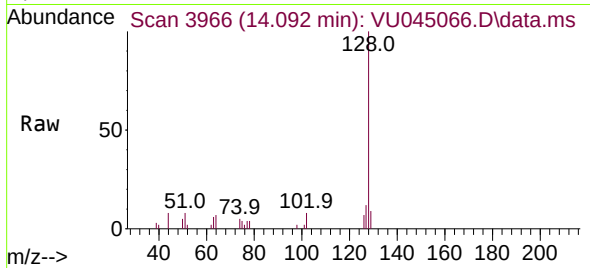




#95
Naphthalene
Concen: 1.092 ug/l
RT: 14.092 min Scan# 3966
Delta R.T. 0.003 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion:128	Resp:	10763
Ion Ratio	Lower	Upper
128	100	
127	12.0	10.4 15.6
129	8.5	8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.732 ug/l
RT: 14.333 min Scan# 4041
Delta R.T. 0.000 min
Lab File: VU045066.D
Acq: 01 Oct 2021 12:32

Tgt Ion:180	Resp:	1926
Ion Ratio	Lower	Upper
180	100	
182	81.7	47.1 141.4
145	23.8	16.4 49.2

