

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102921\
 Data File : VU045471.D
 Acq On : 29 Oct 2021 18:03
 Operator : SY/MD
 Sample : M4345-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 30 04:09:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U102821W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 29 11:09:42 2021
 Response via : Initial Calibration

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

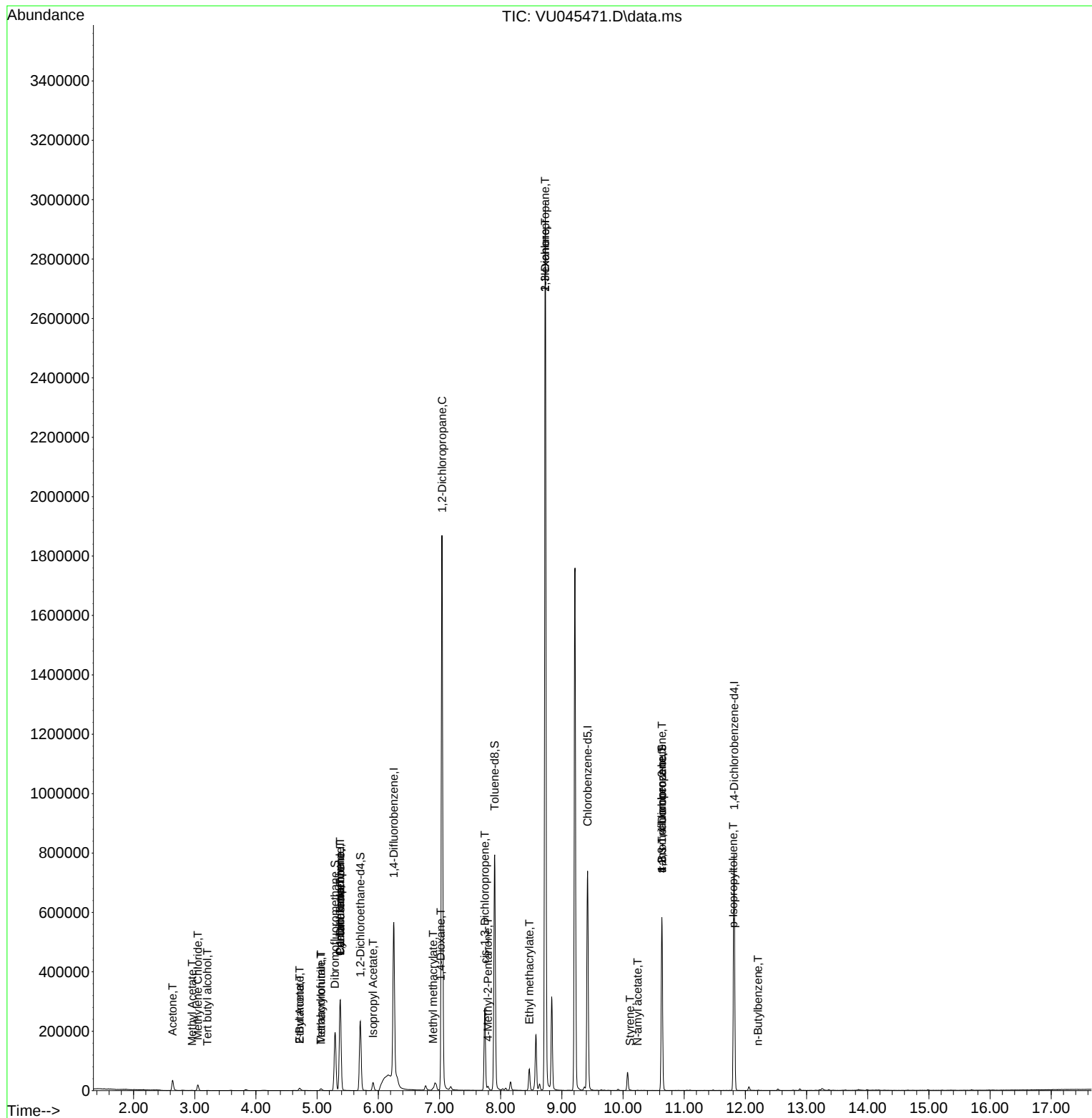
Internal Standards						
1) Pentafluorobenzene	5.378	168	204237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	409275	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	396893	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	192927	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	173585	52.205	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.420%			
35) Dibromofluoromethane	5.292	113	126564	48.634	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.260%			
50) Toluene-d8	7.902	98	522341	51.185	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.380%			
62) 4-Bromofluorobenzene	10.636	95	199788	51.377	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.760%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	3.205	59	529	0.737	ug/l #	72
16) Acetone	2.639	43	43467	28.795	ug/l	99
18) Methyl Acetate	2.957	43	1503	0.267	ug/l #	65
20) Methylene Chloride	3.051	84	8776	2.918	ug/l	90
25) 2-Butanone	4.713	43	13068	5.735	ug/l	100
29) Tetrahydrofuran	5.060	42	4481	3.032	ug/l	94
31) Cyclohexane	5.375	56	4884	0.987	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	18751	4.813	ug/l #	49
37) Ethyl Acetate	4.713	43	13068	2.770	ug/l #	67
38) Carbon Tetrachloride	5.375	117	20962	6.169	ug/l #	15
41) Methacrylonitrile	5.063	41	2664	1.067	ug/l #	29
43) Isopropyl Acetate	5.915	43	29912	4.207	ug/l	99
45) 1,2-Dichloropropane	7.044	63	2360	0.765	ug/l #	43
48) Methyl methacrylate	6.896	41	9546	2.832	ug/l #	13
49) 1,4-Dioxane	7.018	88	85	0.992	ug/l #	13
51) 4-Methyl-2-Pentanone	7.793	43	8229	1.791	ug/l	90
54) cis-1,3-Dichloropropene	7.742	75	50929	10.550	ug/l #	60
56) Ethyl methacrylate	8.468	69	199	1.677	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	30787	5.956	ug/l #	43
59) 2-Hexanone	8.729	43	406188	114.071	ug/l #	48
70) Styrene	10.115	104	433	1.022	ug/l #	75
74) N-amyl acetate	10.240	43	623	1.245	ug/l #	40
76) 1,2,3-Trichloropropane	10.636	75	102495	19.939	ug/l #	43
81) trans-1,4-Dichloro-2-b...	10.636	75	102495	55.391	ug/l #	12
86) p-Isopropyltoluene	11.803	119	394	0.220	ug/l #	1
89) n-Butylbenzene	12.208	91	685	0.994	ug/l #	84

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

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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

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ClientSampleId :

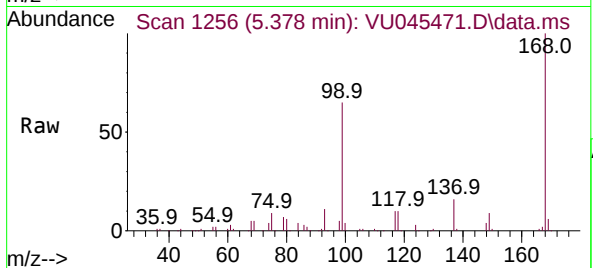
Quant Time: Oct 30 04:09:23 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U102821W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 29 11:09:42 2021
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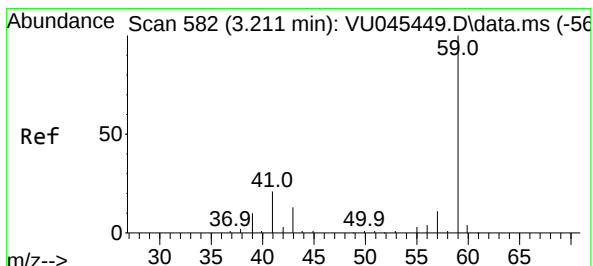
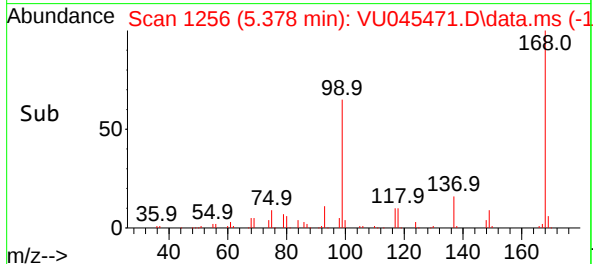
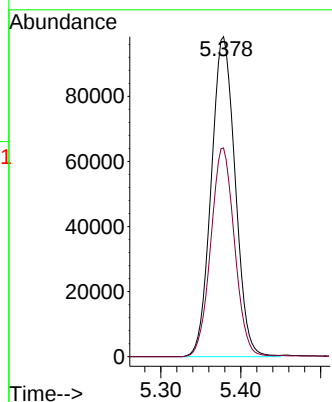


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Instrument :
MSVOA_U
ClientSampleId :

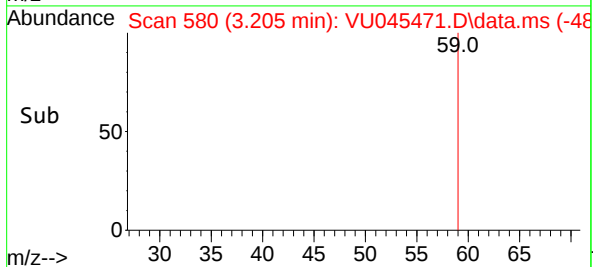
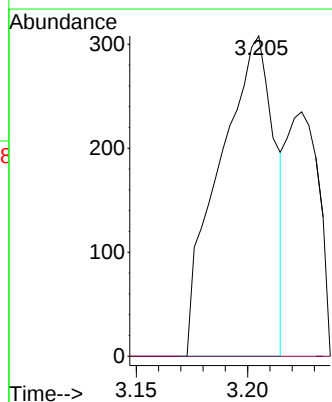
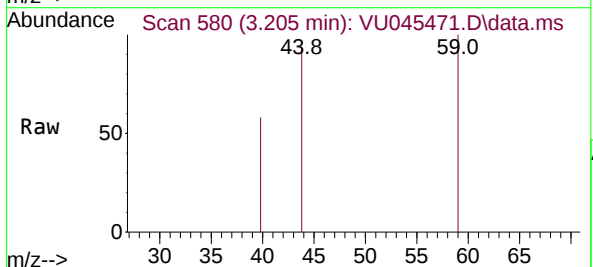


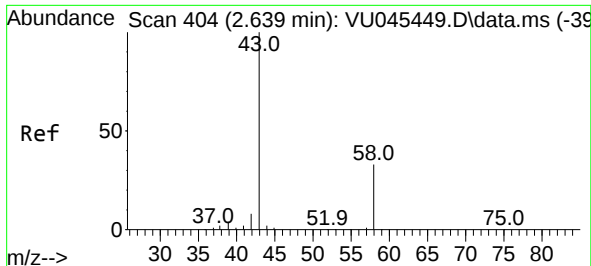
Tgt Ion:168 Resp: 204237
Ion Ratio Lower Upper
168 100
99 65.2 51.0 76.6



#11
Tert butyl alcohol
Concen: 0.737 ug/l
RT: 3.205 min Scan# 580
Delta R.T. -0.006 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 59 Resp: 529
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

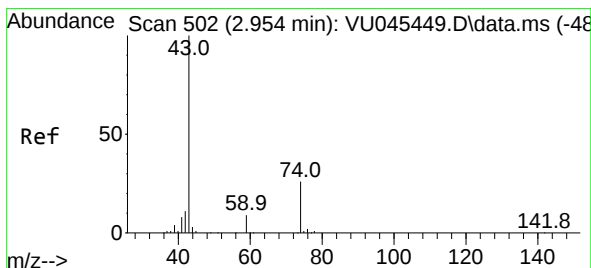
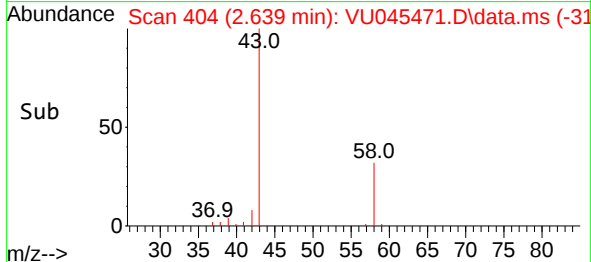
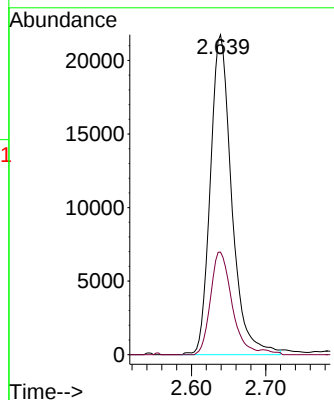
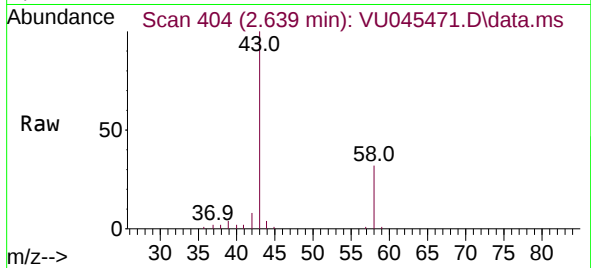




#16
Acetone
Concen: 28.795 ug/l
RT: 2.639 min Scan# 404
Delta R.T. -0.000 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

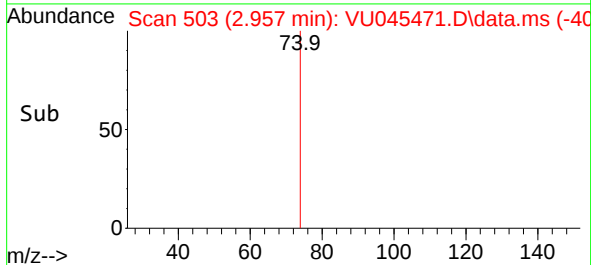
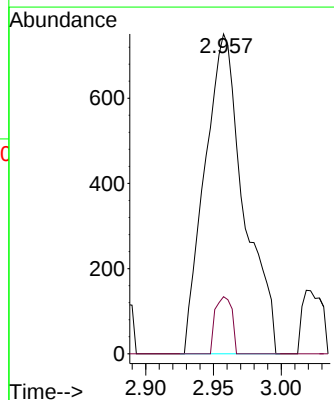
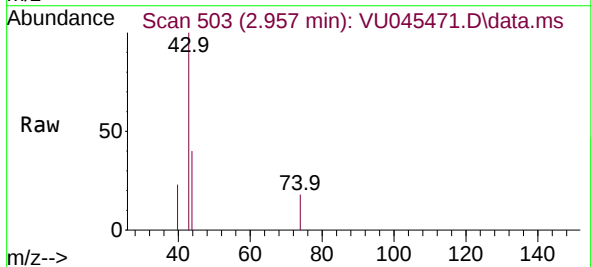
Instrument :
MSVOA_U
ClientSampleId :

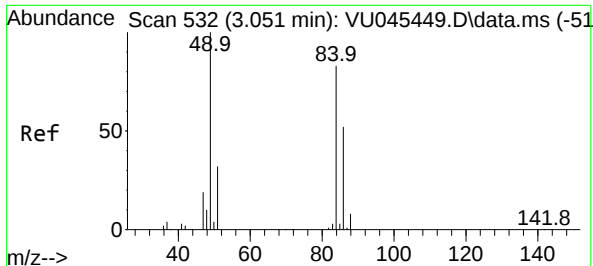
Tgt Ion: 43 Resp: 43467
Ion Ratio Lower Upper
43 100
58 32.1 26.2 39.2



#18
Methyl Acetate
Concen: 0.267 ug/l
RT: 2.957 min Scan# 503
Delta R.T. 0.003 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

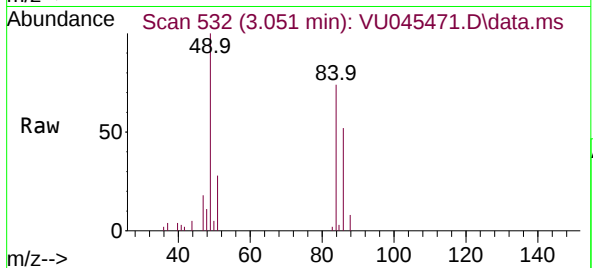
Tgt Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
74 7.6 20.2 30.2#



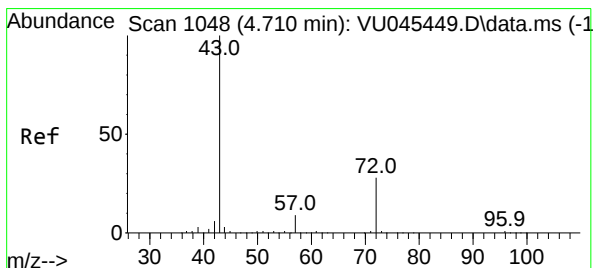
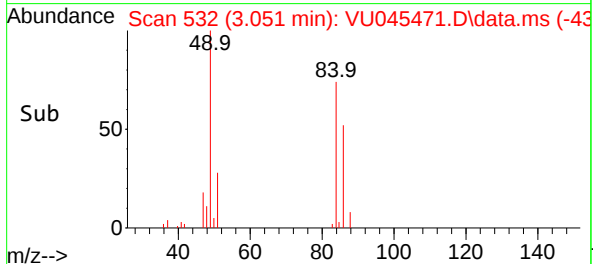
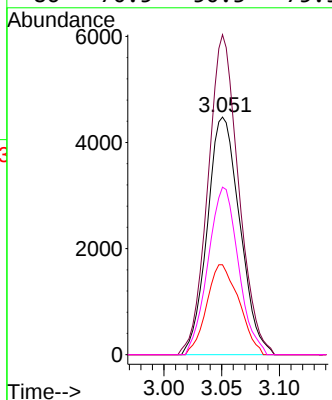


#20
Methylene Chloride
Concen: 2.918 ug/l
RT: 3.051 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Instrument :
MSVOA_U
ClientSampleId :

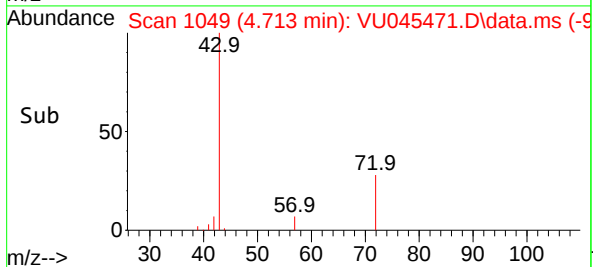
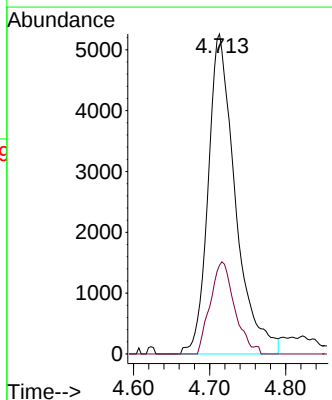
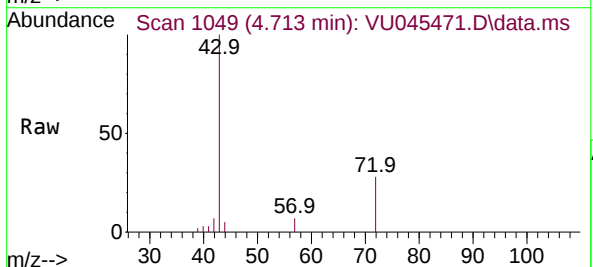


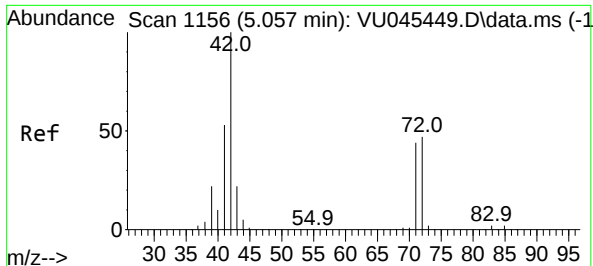
Tgt Ion:	84	Resp:	8776
Ion	Ratio	Lower	Upper
84	100		
49	134.6	96.4	144.6
51	37.9	30.5	45.7
86	70.5	50.3	75.5



#25
2-Butanone
Concen: 5.735 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. 0.003 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion:	43	Resp:	13068
Ion	Ratio	Lower	Upper
43	100		
72	27.7	22.0	33.0





#29

Tetrahydrofuran

Concen: 3.032 ug/l

RT: 5.060 min Scan# 1156

Delta R.T. 0.003 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

Instrument :

MSVOA_U

ClientSampleId :

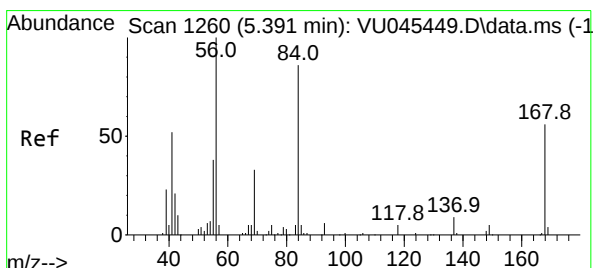
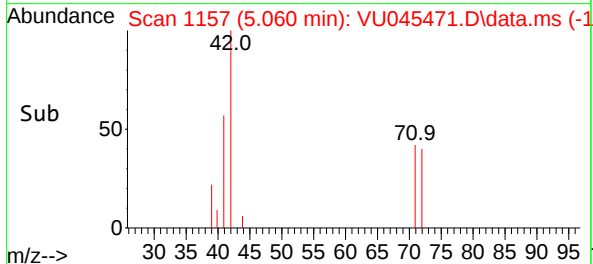
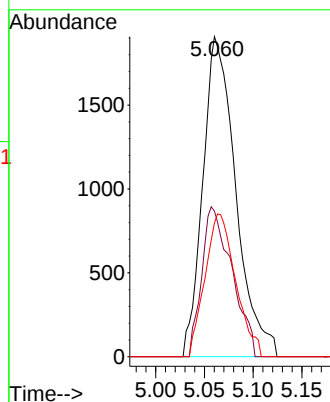
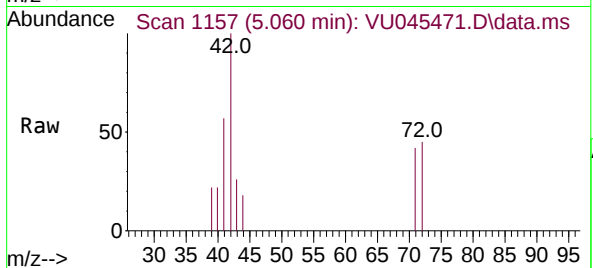
Tgt Ion: 42 Resp: 4481

Ion Ratio Lower Upper

42 100

72 42.7 38.2 57.4

71 41.5 35.4 53.2



#31

Cyclohexane

Concen: 0.987 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.016 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

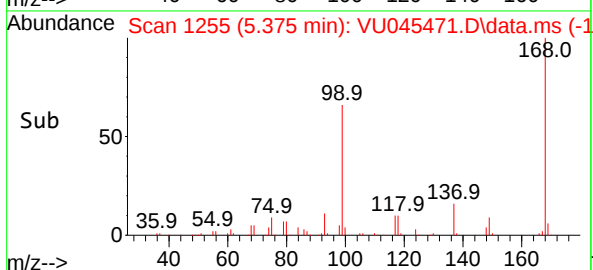
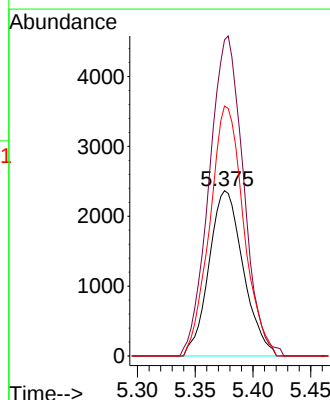
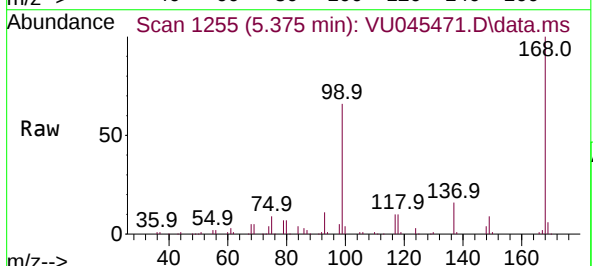
Tgt Ion: 56 Resp: 4884

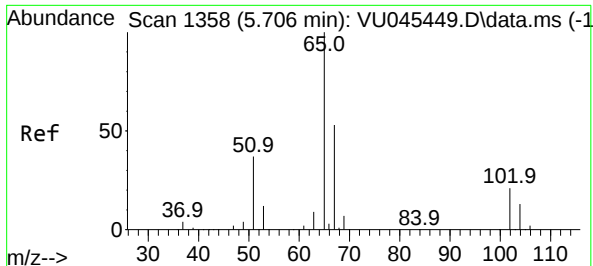
Ion Ratio Lower Upper

56 100

69 191.2 26.4 39.6#

84 151.1 68.4 102.6#





#33

1,2-Dichloroethane-d4

Concen: 52.205 ug/l

RT: 5.706 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

Instrument :

MSVOA_U

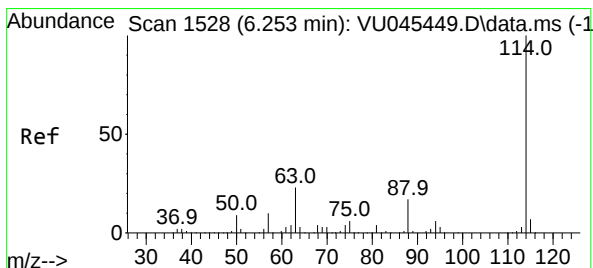
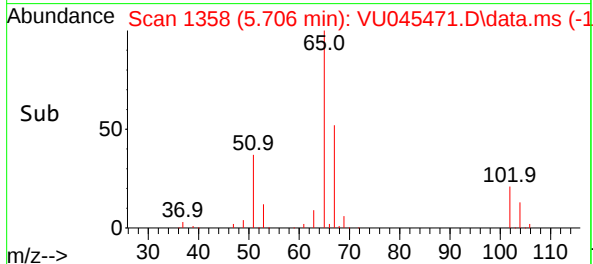
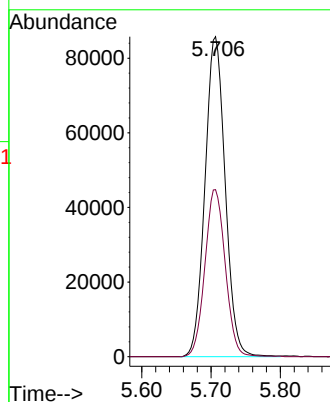
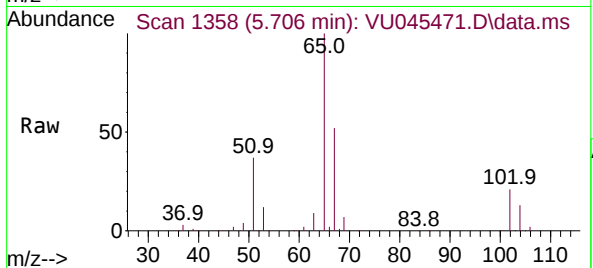
ClientSampleId :

Tgt Ion: 65 Resp: 173585

Ion Ratio Lower Upper

65 100

67 52.6 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

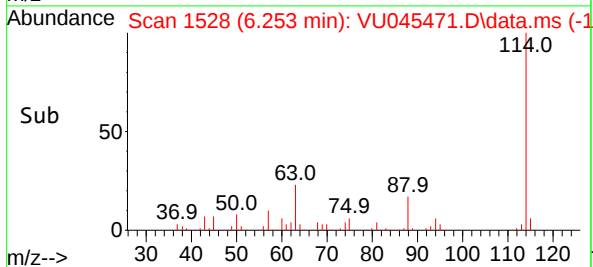
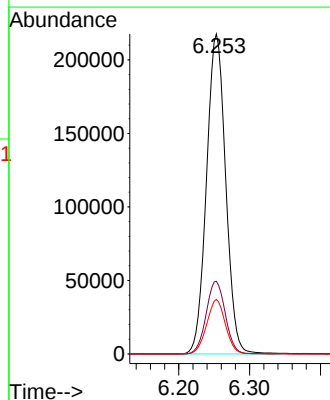
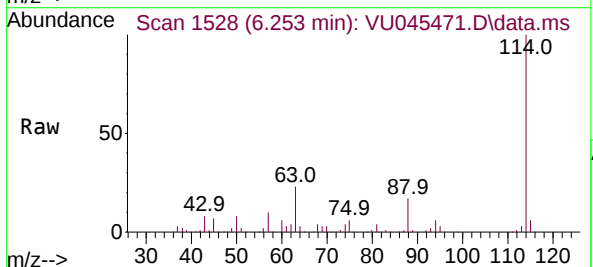
Tgt Ion: 114 Resp: 409275

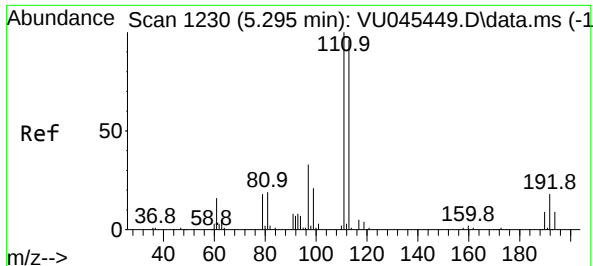
Ion Ratio Lower Upper

114 100

63 22.7 0.0 45.6

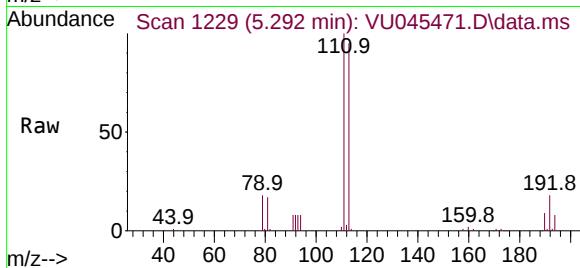
88 17.0 0.0 33.8



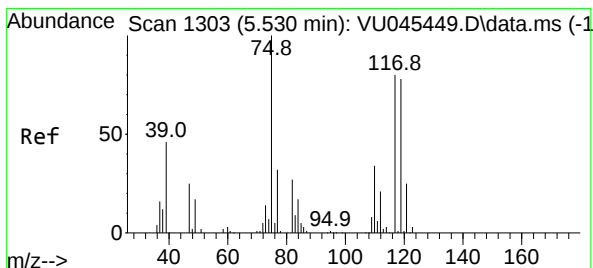
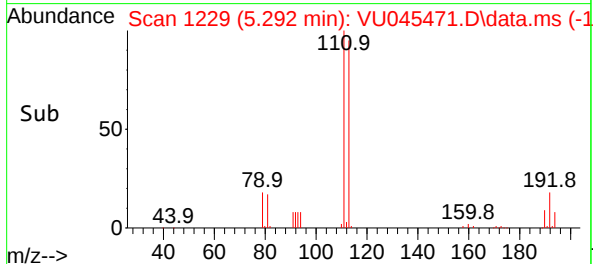
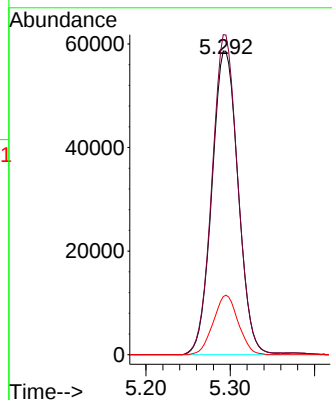


#35
Dibromofluoromethane
Concen: 48.634 ug/l
RT: 5.292 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Instrument :
MSVOA_U
ClientSampleId :

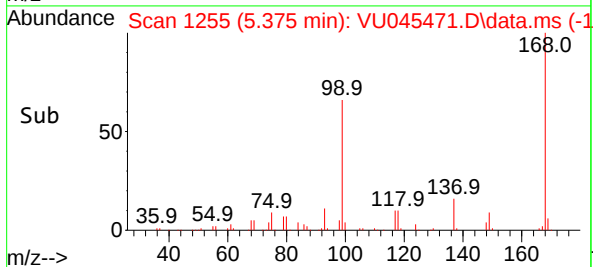
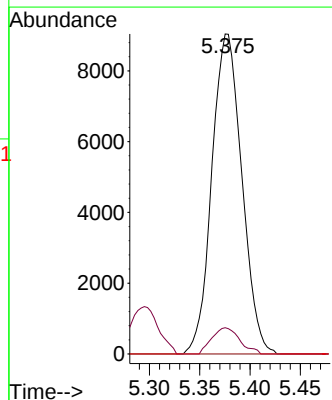
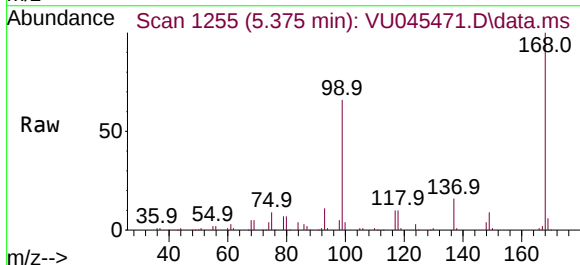


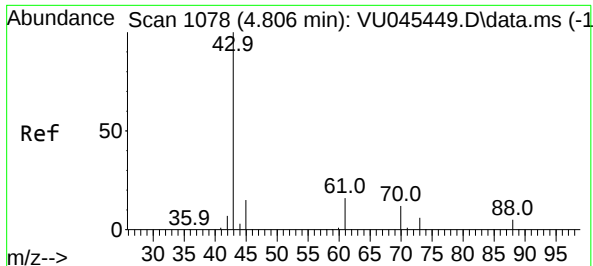
Tgt Ion:113 Resp: 126564
Ion Ratio Lower Upper
113 100
111 103.4 82.8 124.2
192 18.6 14.8 22.2



#36
1,1-Dichloropropene
Concen: 4.813 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.154 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 75 Resp: 18751
Ion Ratio Lower Upper
75 100
110 7.6 16.7 50.0#
77 0.0 25.0 37.4#

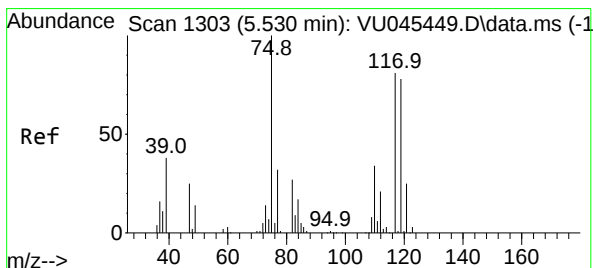
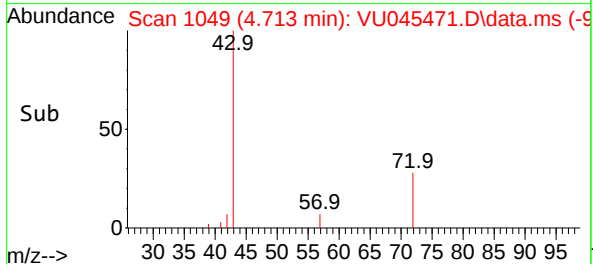
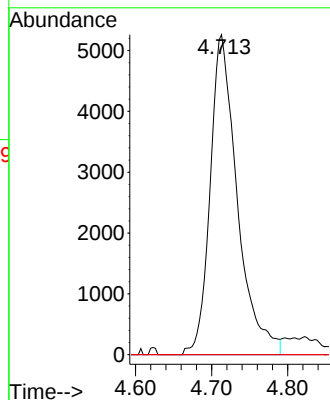
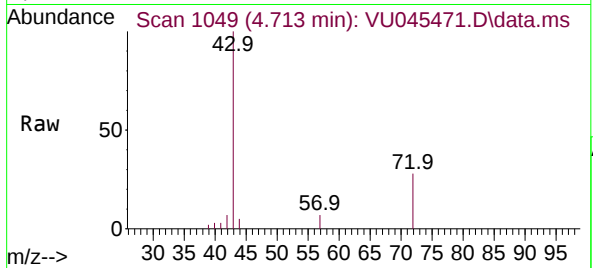




#37
Ethyl Acetate
Concen: 2.770 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. -0.093 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

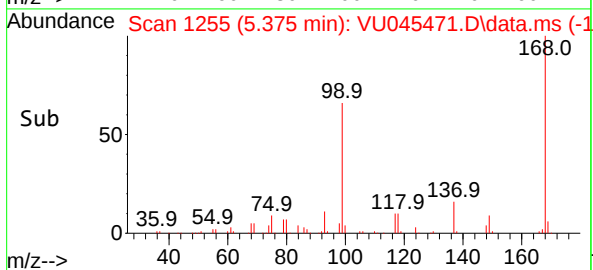
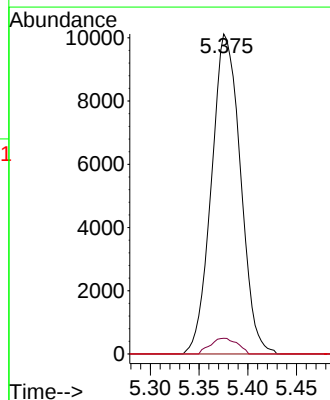
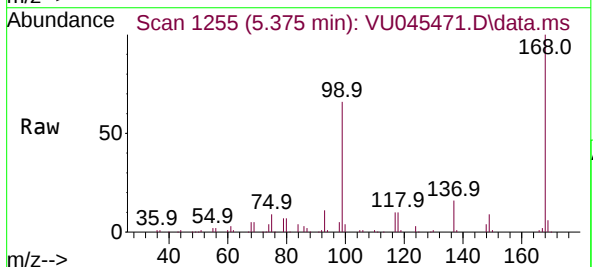
Instrument :
MSVOA_U
ClientSampleId :

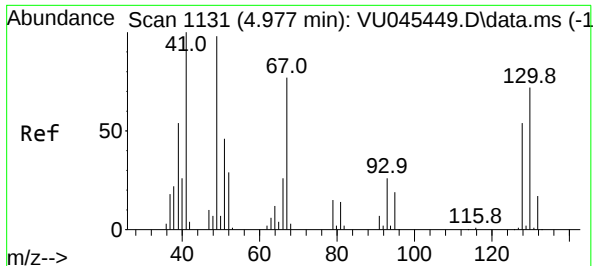
Tgt Ion: 43 Resp: 13068
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.1 13.7#



#38
Carbon Tetrachloride
Concen: 6.169 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.154 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 117 Resp: 20962
Ion Ratio Lower Upper
117 100
119 4.9 77.4 116.0#
121 0.0 24.8 37.2#

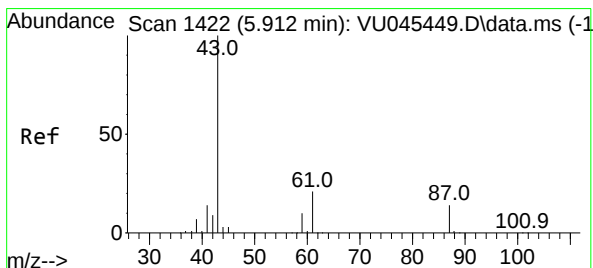
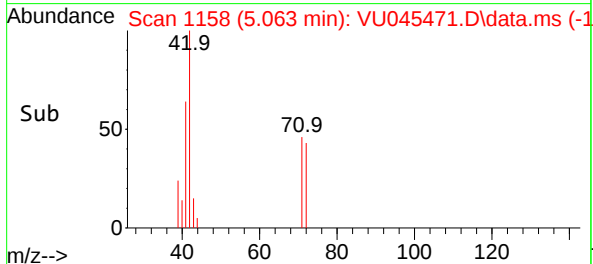
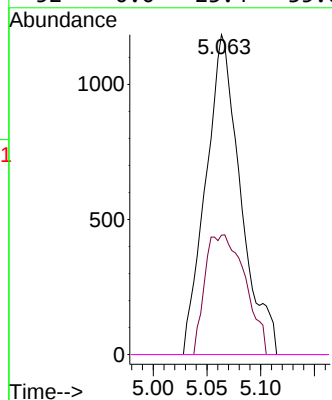
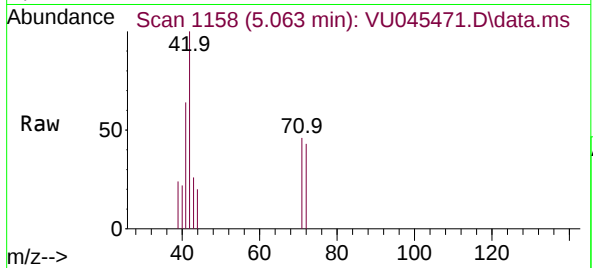




#41
Methacrylonitrile
Concen: 1.067 ug/l
RT: 5.063 min Scan# 1131
Delta R.T. 0.087 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

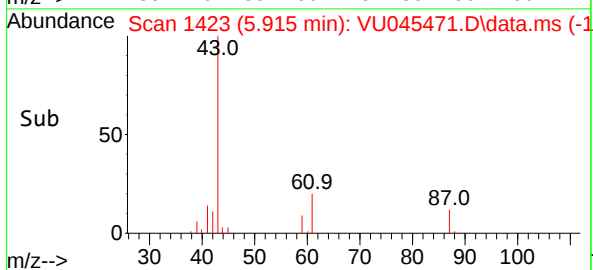
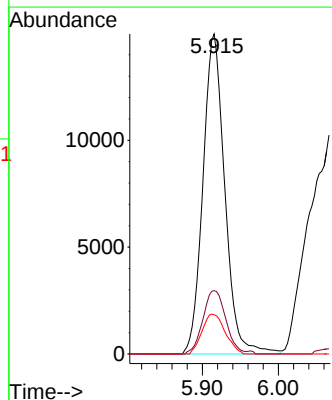
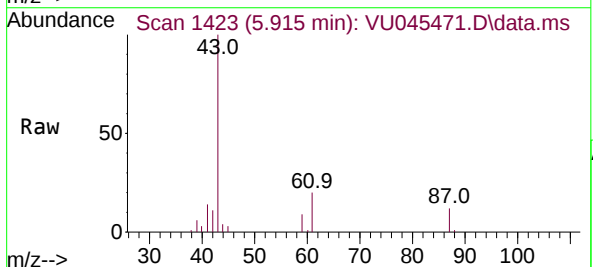
Instrument :
MSVOA_U
ClientSampleId :

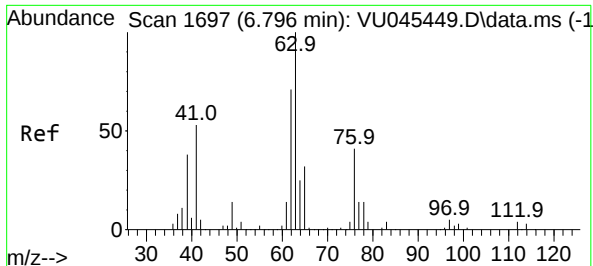
Tgt Ion: 41	Resp: 2664
Ion Ratio	Lower Upper
41 100	
39 15.7	43.4 65.0#
67 0.0	61.0 91.4#
52 0.0	23.4 35.0#



#43
Isopropyl Acetate
Concen: 4.207 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. 0.003 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 43	Resp: 29912
Ion Ratio	Lower Upper
43 100	
61 20.7	16.9 25.3
87 13.1	11.0 16.4





#45

1,2-Dichloropropane

Concen: 0.765 ug/l

RT: 7.044 min Scan# 1

Delta R.T. 0.248 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

Instrument :

MSVOA_U

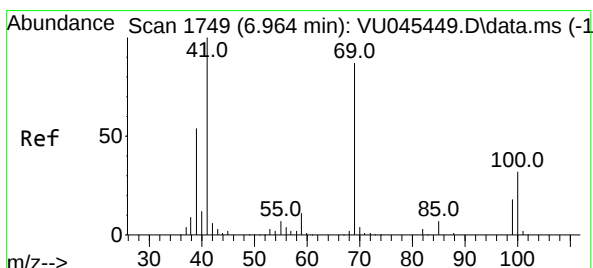
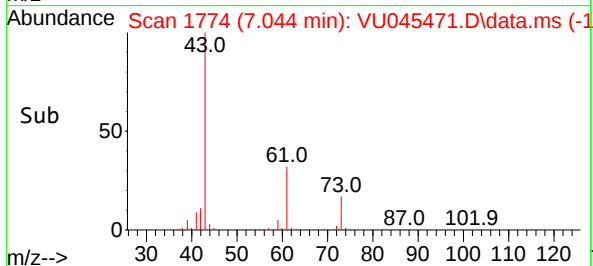
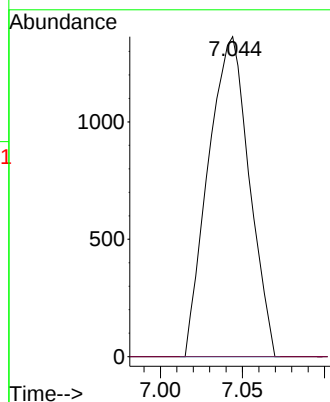
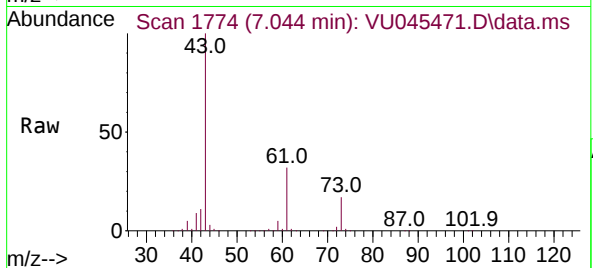
ClientSampleId :

Tgt Ion: 63 Resp: 2360

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 2.832 ug/l

RT: 6.896 min Scan# 1728

Delta R.T. -0.068 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

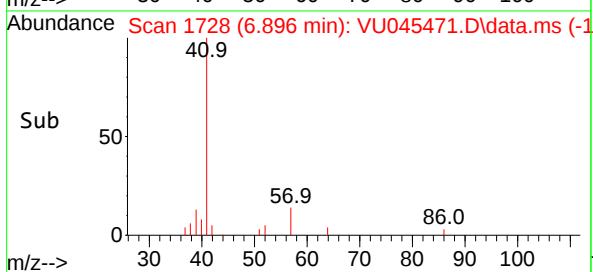
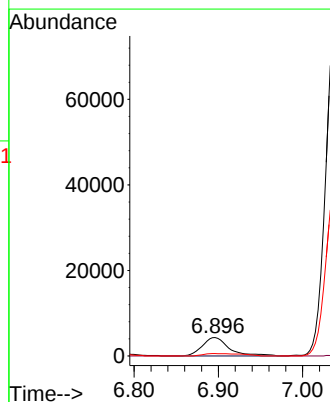
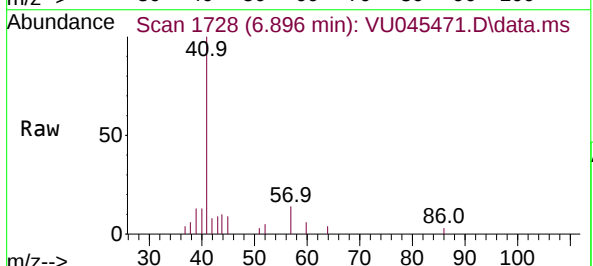
Tgt Ion: 41 Resp: 9546

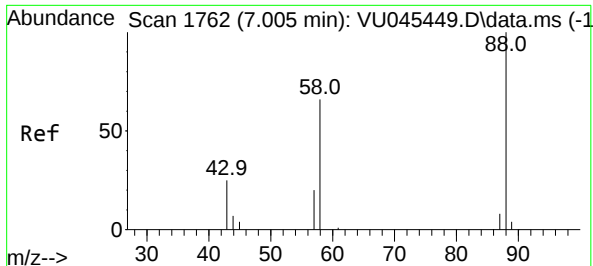
Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#





#49

1,4-Dioxane

Concen: 0.992 ug/l

RT: 7.018 min Scan# 1766

Delta R.T. 0.013 min

Lab File: VU045471.D

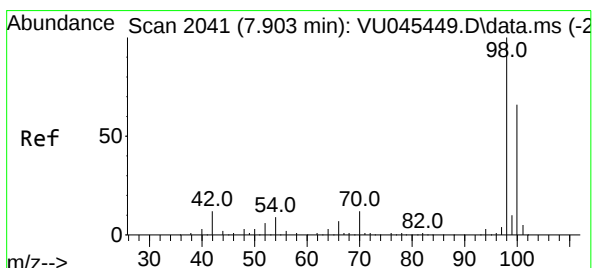
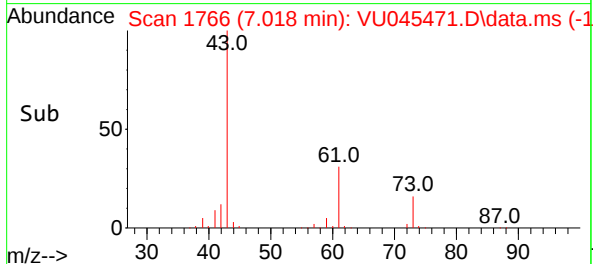
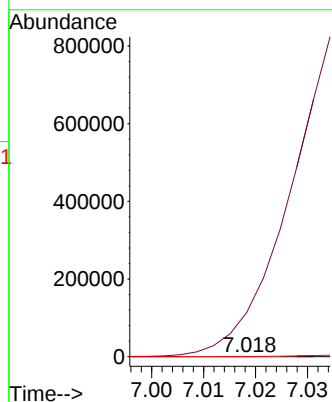
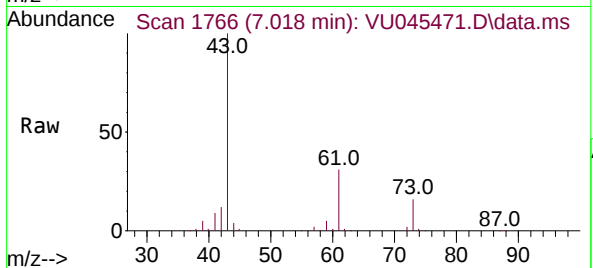
Acq: 29 Oct 2021 18:03

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	88	Resp:	85
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	0.0	58.7	88.1#



#50

Toluene-d8

Concen: 51.185 ug/l

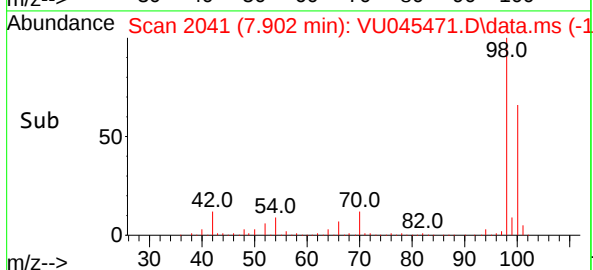
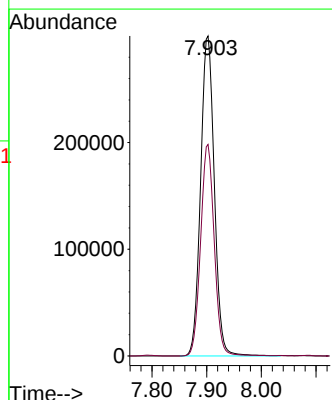
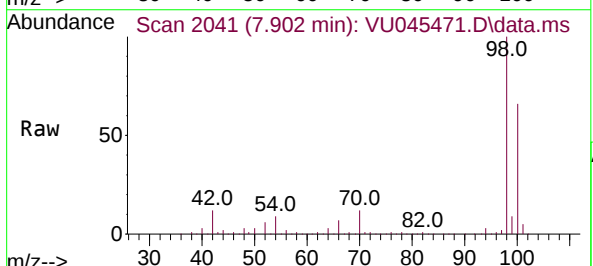
RT: 7.902 min Scan# 2041

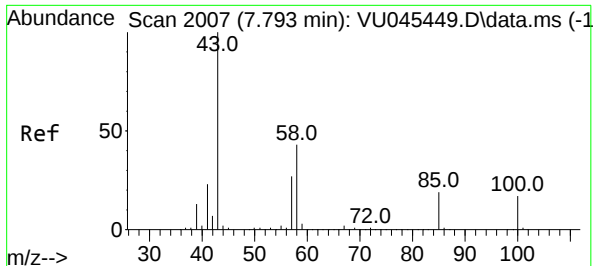
Delta R.T. -0.000 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

Tgt Ion:	98	Resp:	522341
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.5	78.7





#51

4-Methyl-2-Pentanone

Concen: 1.791 ug/l

RT: 7.793 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

Instrument :

MSVOA_U

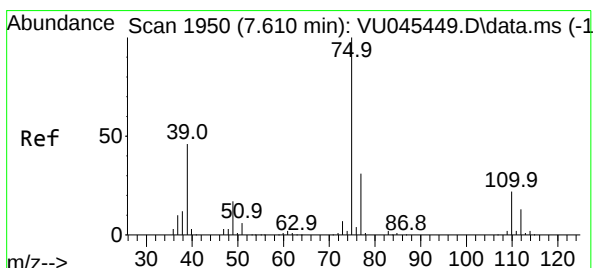
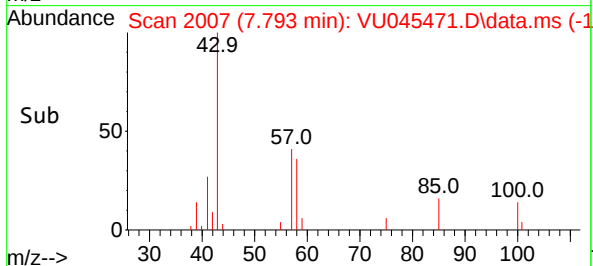
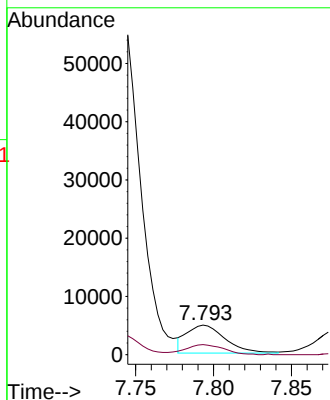
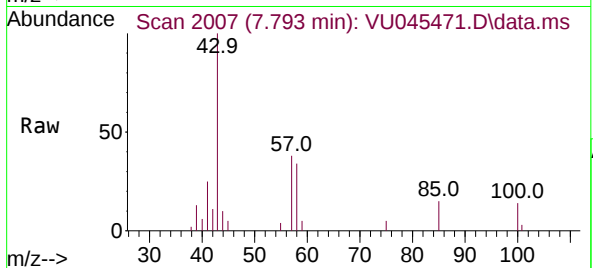
ClientSampleId :

Tgt Ion: 43 Resp: 8229

Ion Ratio Lower Upper

43 100

58 35.8 33.8 50.8



#54

cis-1,3-Dichloropropene

Concen: 10.550 ug/l

RT: 7.742 min Scan# 1991

Delta R.T. 0.132 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

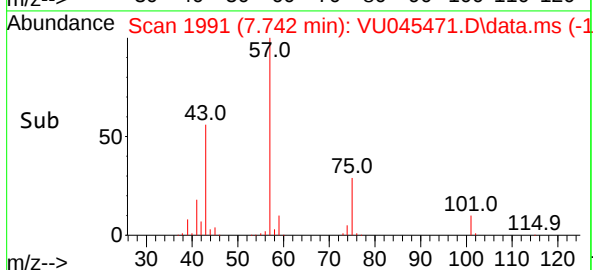
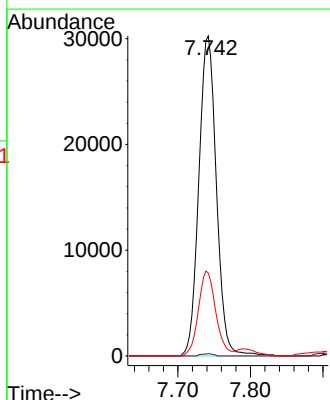
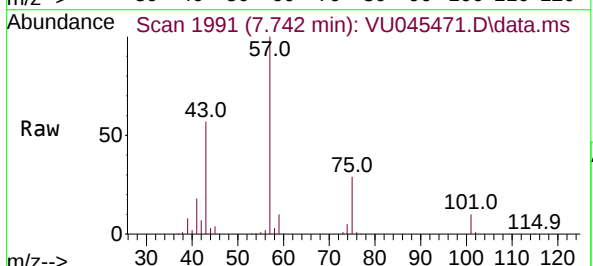
Tgt Ion: 75 Resp: 50929

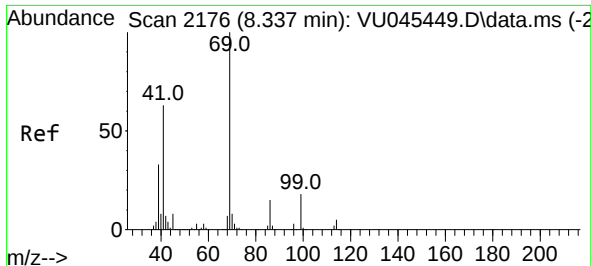
Ion Ratio Lower Upper

75 100

77 0.7 24.6 37.0#

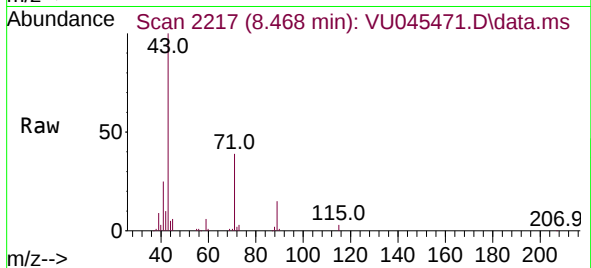
39 26.0 37.1 55.7#



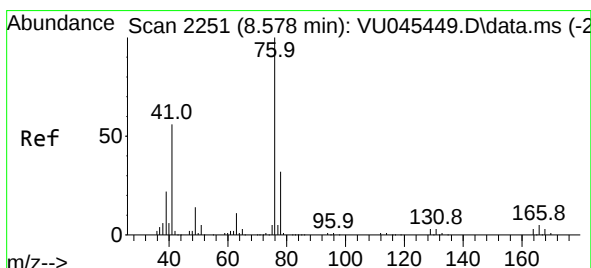
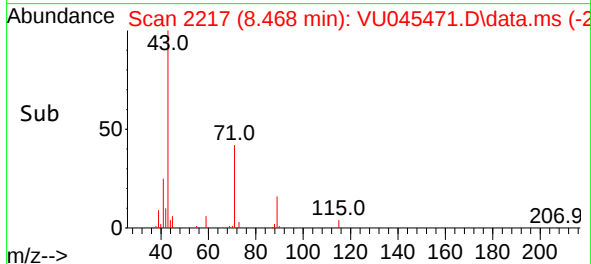
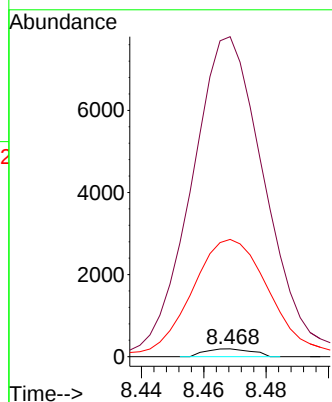


#56
Ethyl methacrylate
Concen: 1.677 ug/l
RT: 8.468 min Scan# 2176
Delta R.T. 0.131 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Instrument :
MSVOA_U
ClientSampleId :

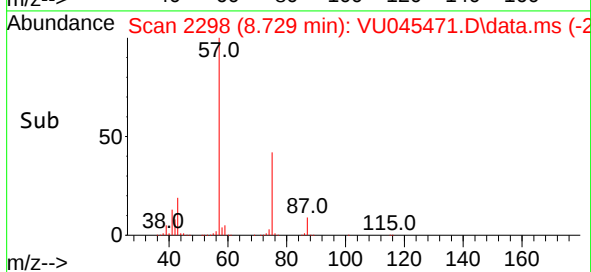
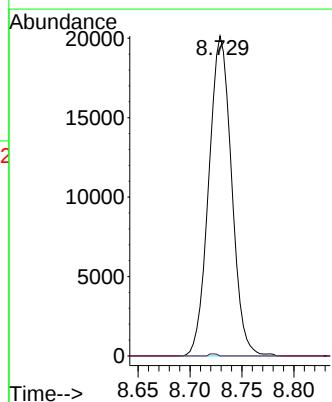
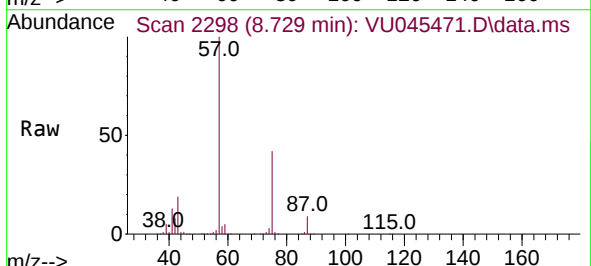


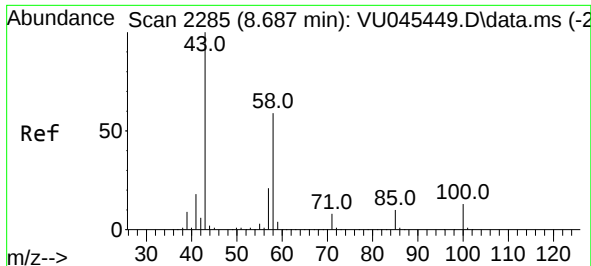
Tgt Ion: 69 Resp: 199
Ion Ratio Lower Upper
69 100
41 6552.8 51.0 76.4#
39 2556.3 26.6 39.8#



#57
1,3-Dichloropropane
Concen: 5.956 ug/l
RT: 8.729 min Scan# 2298
Delta R.T. 0.151 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 76 Resp: 30787
Ion Ratio Lower Upper
76 100
78 0.2 25.8 38.8#

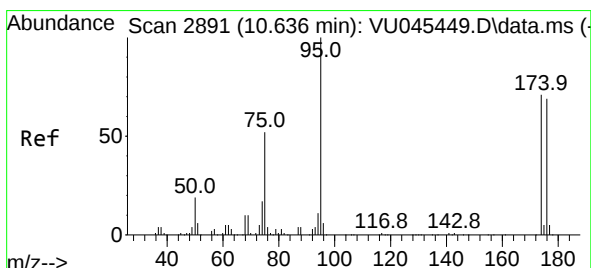
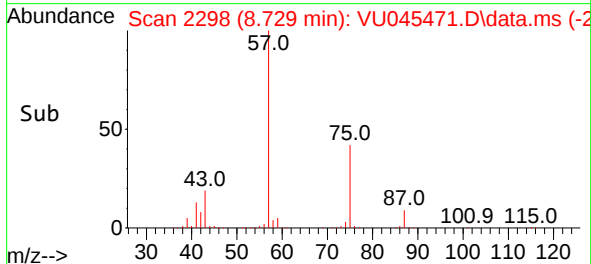
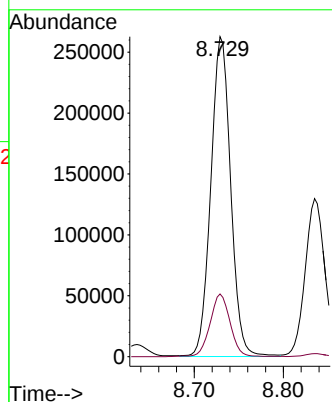
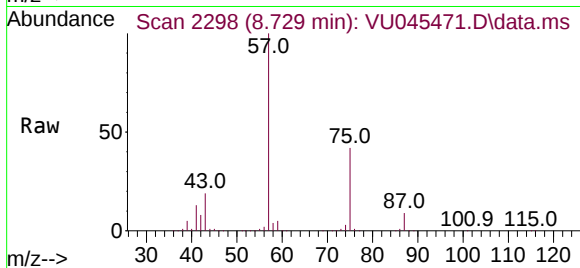




#59
2-Hexanone
Concen: 114.071 ug/l
RT: 8.729 min Scan# 21
Delta R.T. 0.042 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

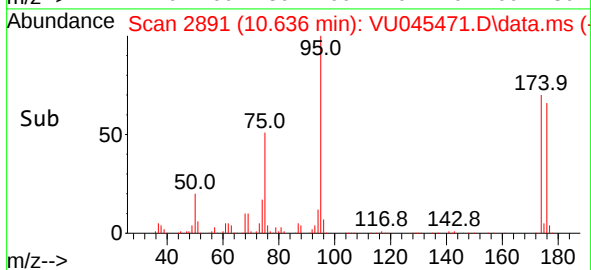
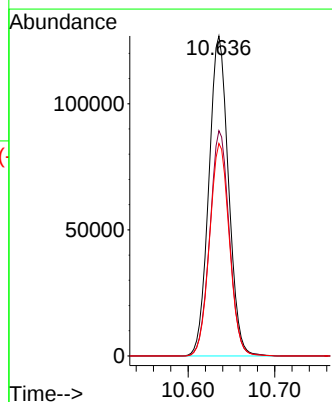
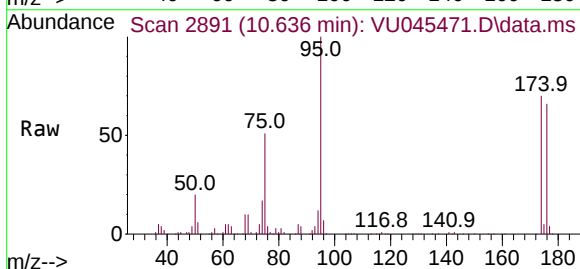
Instrument :
MSVOA_U
ClientSampleId :

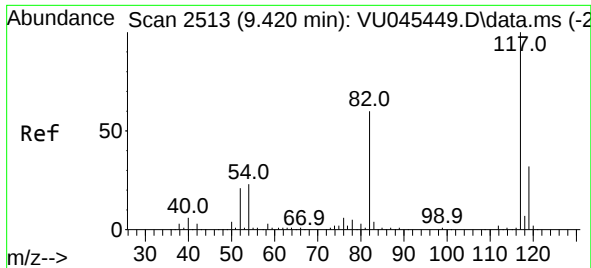
Tgt Ion: 43 Resp: 406188
Ion Ratio Lower Upper
43 100
58 19.9 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 51.377 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 95 Resp: 199788
Ion Ratio Lower Upper
95 100
174 70.0 0.0 141.8
176 66.8 0.0 138.2

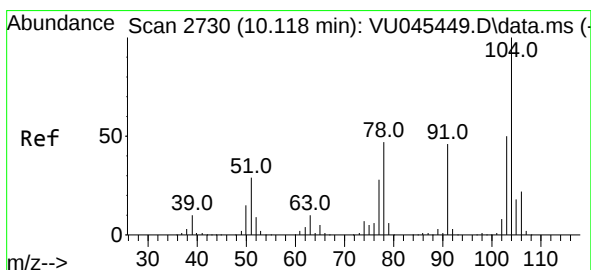
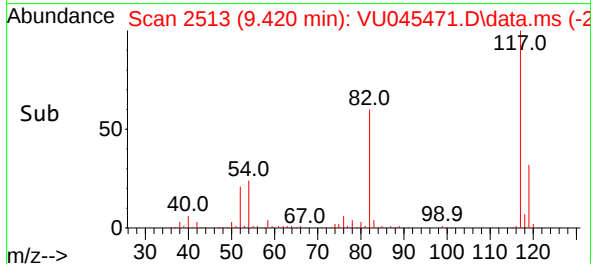
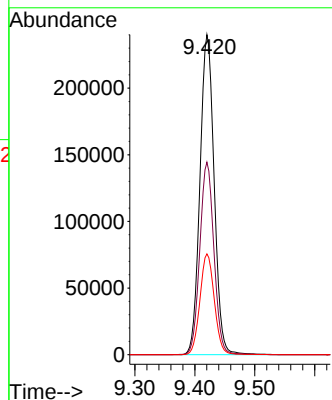
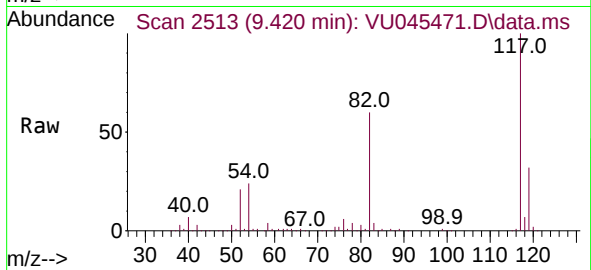




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

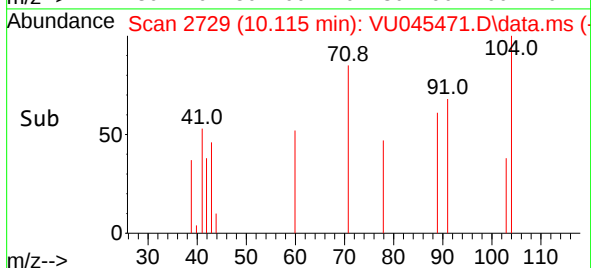
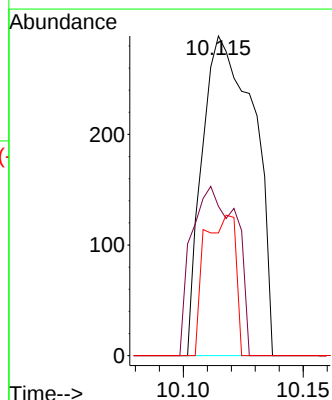
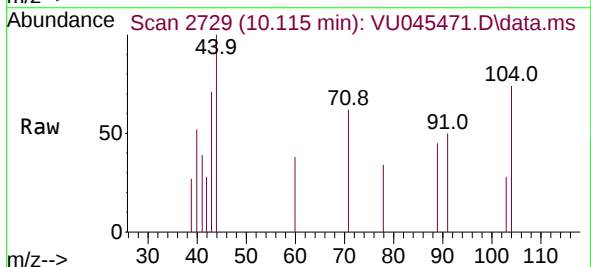
Instrument :
MSVOA_U
ClientSampleId :

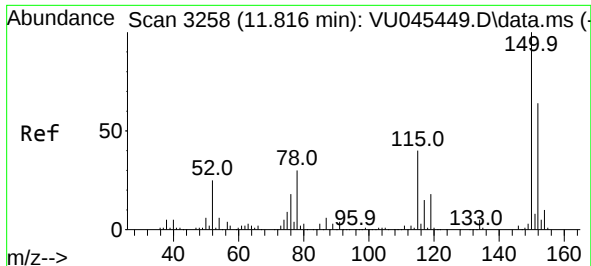
Tgt Ion:117 Resp: 396893
Ion Ratio Lower Upper
117 100
82 60.1 47.8 71.8
119 31.5 25.8 38.8



#70
Styrene
Concen: 1.022 ug/l
RT: 10.115 min Scan# 2729
Delta R.T. -0.003 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion:104 Resp: 433
Ion Ratio Lower Upper
104 100
78 45.5 41.8 62.6
103 26.1 43.8 65.6#

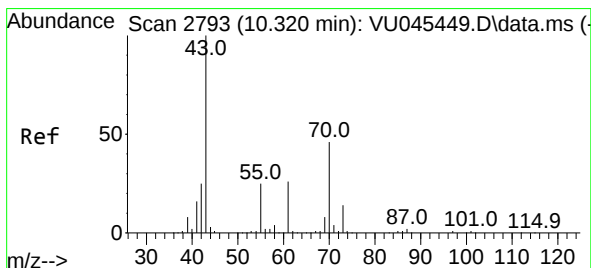
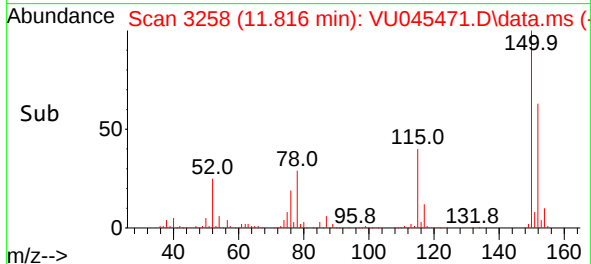
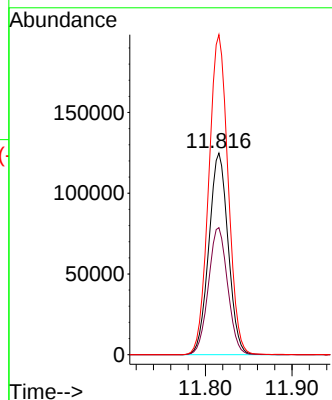
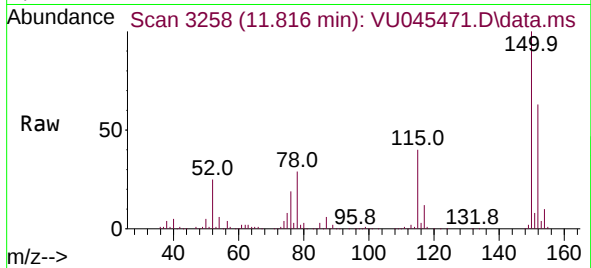




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

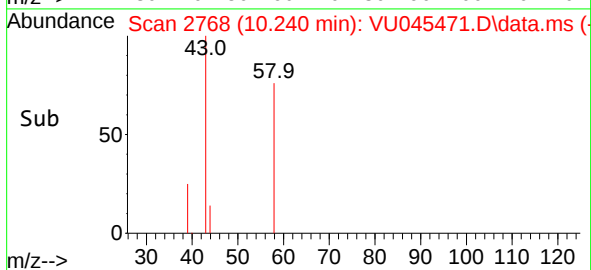
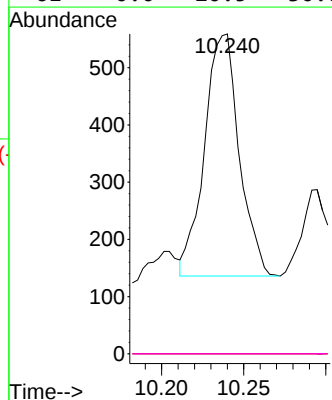
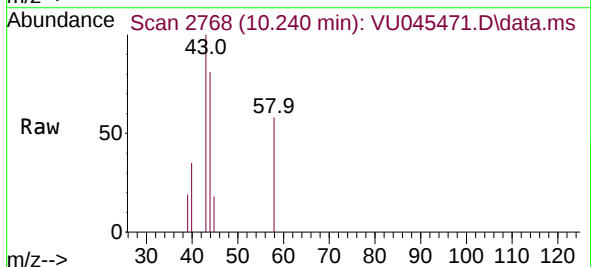
Instrument :
MSVOA_U
ClientSampleId :

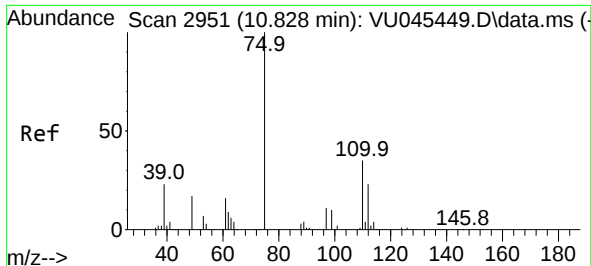
Tgt Ion:152 Resp: 192927
Ion Ratio Lower Upper
152 100
115 62.9 42.7 128.1
150 158.9 0.0 346.8



#74
N-ethyl acetate
Concen: 1.245 ug/l
RT: 10.240 min Scan# 2768
Delta R.T. -0.080 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 43 Resp: 623
Ion Ratio Lower Upper
43 100
70 0.0 36.9 55.3#
55 0.0 20.6 31.0#
61 0.0 20.5 30.7#

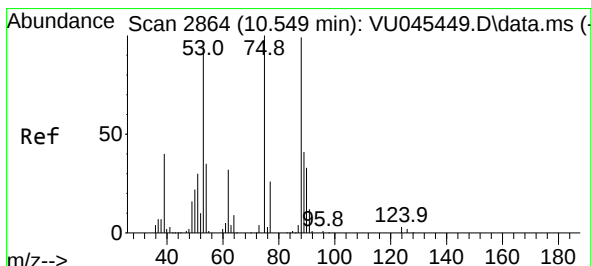
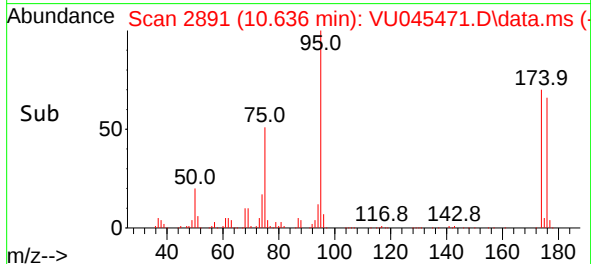
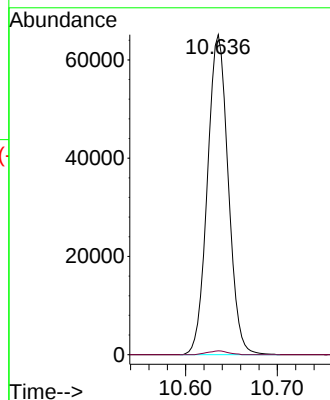
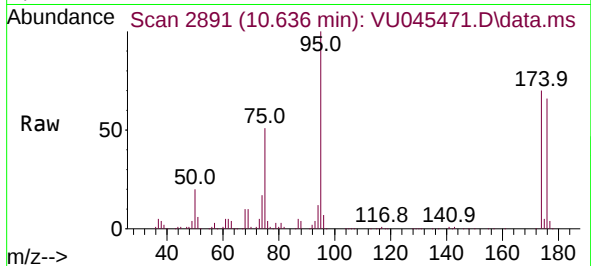




#76
1,2,3-Trichloropropane
Concen: 19.939 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

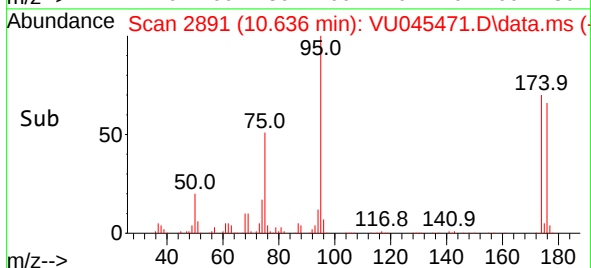
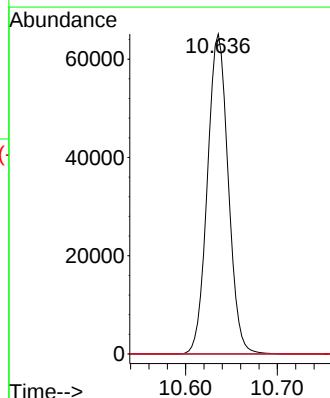
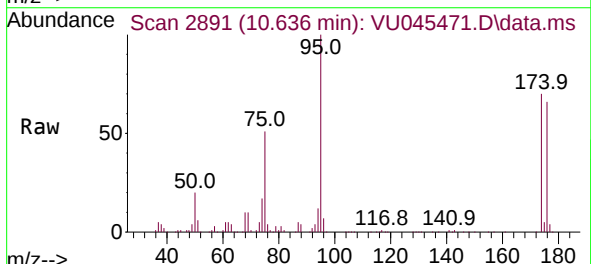
Instrument :
MSVOA_U
ClientSampleId :

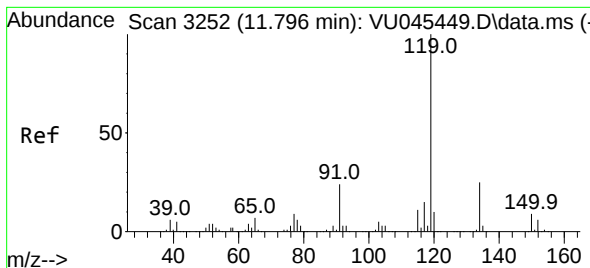
Tgt Ion: 75 Resp: 102495
Ion Ratio Lower Upper
75 100
77 1.2 17.1 51.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.391 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.087 min
Lab File: VU045471.D
Acq: 29 Oct 2021 18:03

Tgt Ion: 75 Resp: 102495
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#





#86

p-Isopropyltoluene

Concen: 0.220 ug/l

RT: 11.803 min Scan# 31

Delta R.T. 0.007 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

Instrument :

MSVOA_U

ClientSampleId :

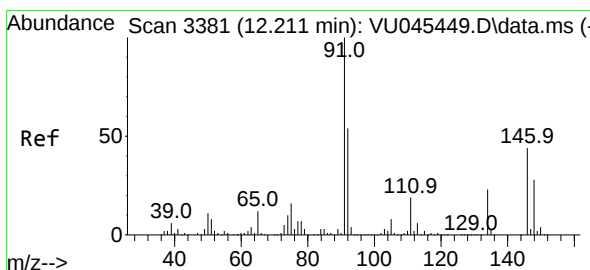
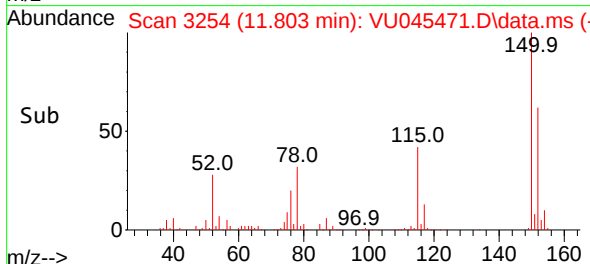
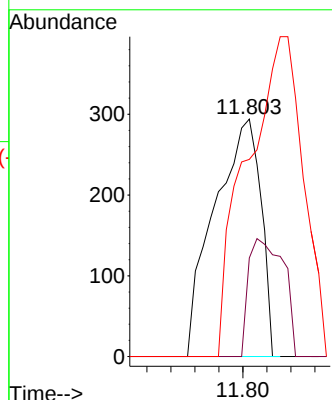
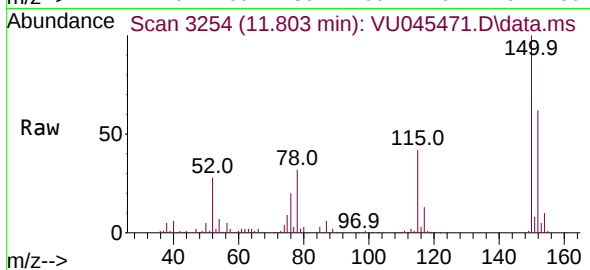
Tgt Ion:119 Resp: 394

Ion Ratio Lower Upper

119 100

134 37.6 12.7 38.1

91 164.2 12.2 36.4#



#89

n-Butylbenzene

Concen: 0.994 ug/l

RT: 12.208 min Scan# 3380

Delta R.T. -0.003 min

Lab File: VU045471.D

Acq: 29 Oct 2021 18:03

Tgt Ion: 91 Resp: 685

Ion Ratio Lower Upper

91 100

92 46.7 27.1 81.2

134 10.1 11.8 35.4#

