

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102221\
 Data File : VU045369.D
 Acq On : 22 Oct 2021 16:59
 Operator : SY/MD
 Sample : M4316-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 01:13:23 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)

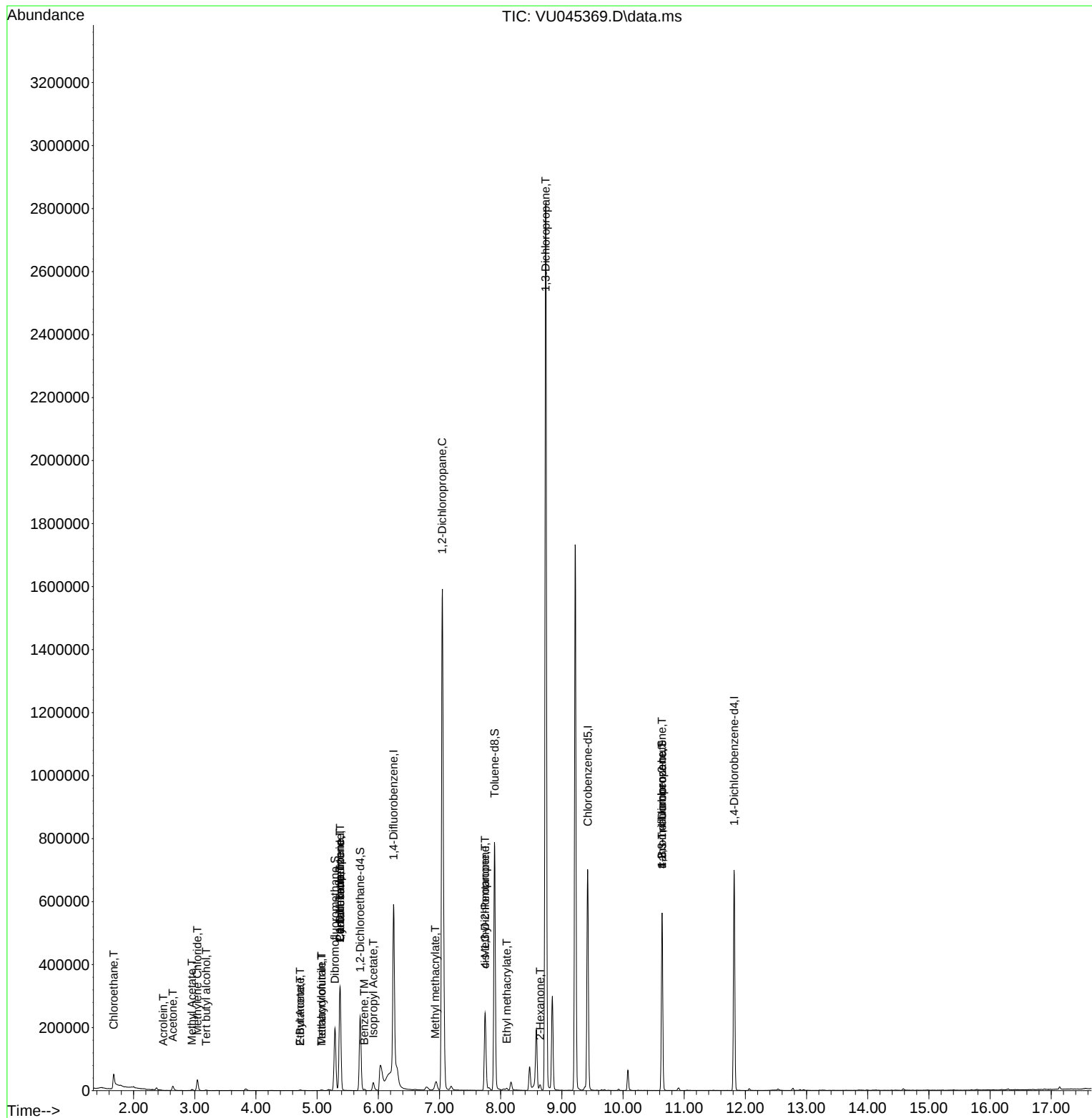
Internal Standards						
1) Pentafluorobenzene	5.375	168	220177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.250	114	415001	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.424	117	385398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	171788	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	176323	48.108	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.220%		
35) Dibromofluoromethane	5.292	113	127982	48.886	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.780%		
50) Toluene-d8	7.899	98	515142	49.801	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.600%		
62) 4-Bromofluorobenzene	10.639	95	191476	44.836	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.680%		
Target Compounds					Qvalue	
6) Chloroethane	1.675	64	91798	33.887	ug/l #	52
11) Tert butyl alcohol	3.189	59	1042	0.991	ug/l #	72
13) Acrolein	2.485	56	42	3.327	ug/l #	14
16) Acetone	2.642	43	19708	9.059	ug/l	98
18) Methyl Acetate	2.954	43	4965	0.781	ug/l #	87
20) Methylene Chloride	3.041	84	16399	5.005	ug/l	98
25) 2-Butanone	4.723	43	4044	1.308	ug/l	99
29) Tetrahydrofuran	5.073	42	1541	0.838	ug/l #	79
31) Cyclohexane	5.375	56	5238	0.941	ug/l #	1
36) 1,1-Dichloropropene	5.372	75	20640	4.756	ug/l #	49
37) Ethyl Acetate	4.723	43	4044	0.704	ug/l #	69
38) Carbon Tetrachloride	5.375	117	23077	6.145	ug/l #	15
40) Benzene	5.771	78	3442	0.266	ug/l	96
41) Methacrylonitrile	5.073	41	1005	0.340	ug/l #	39
43) Isopropyl Acetate	5.919	43	30888	3.575	ug/l	98
45) 1,2-Dichloropropane	7.044	63	2431	0.709	ug/l #	45
48) Methyl methacrylate	6.932	41	10713	2.548	ug/l #	14
49) 1,4-Dioxane	7.044	88	272	Below Cal	#	1
51) 4-Methyl-2-Pentanone	7.745	43	105542	16.781	ug/l #	45
54) cis-1,3-Dichloropropene	7.745	75	53352	9.992	ug/l #	58
56) Ethyl methacrylate	8.102	69	5506	2.631	ug/l #	68
57) 1,3-Dichloropropane	8.735	76	32050	5.328	ug/l #	43
59) 2-Hexanone	8.645	43	16481	3.218	ug/l #	23
76) 1,2,3-Trichloropropane	10.639	75	102150	20.386	ug/l #	41
81) trans-1,4-Dichloro-2-b...	10.639	75	102150	56.575	ug/l #	9

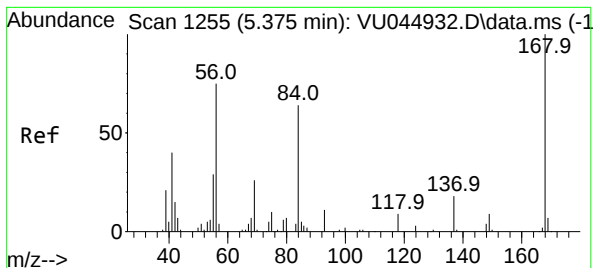
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102221\
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ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 23 01:13:23 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. 0.000 min

Lab File: VU045369.D

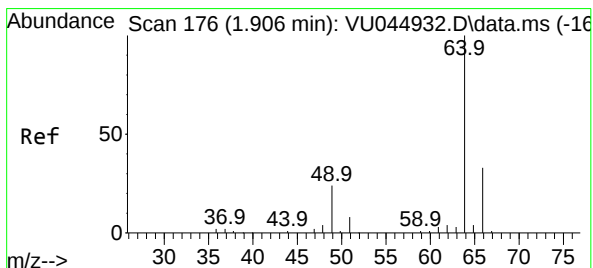
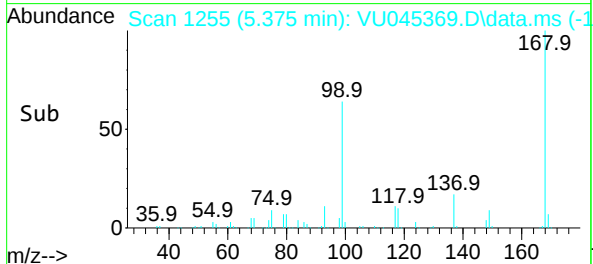
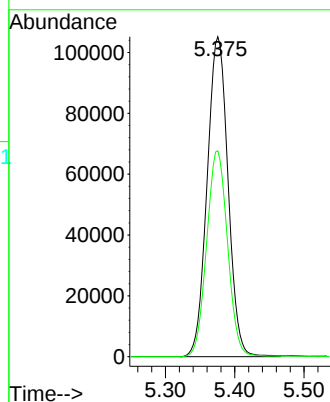
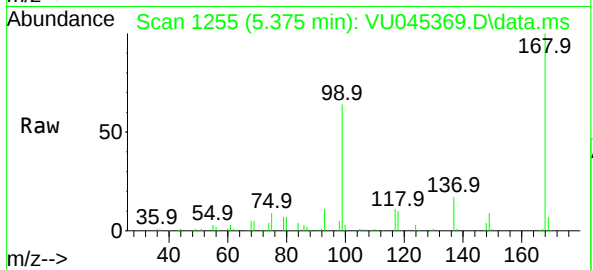
Acq: 22 Oct 2021 16:59

Tgt Ion:168 Resp: 220177

Ion Ratio Lower Upper

168 100

99 64.4 51.4 77.0



#6

Chloroethane

Concen: 33.887 ug/l

RT: 1.675 min Scan# 104

Delta R.T. -0.231 min

Lab File: VU045369.D

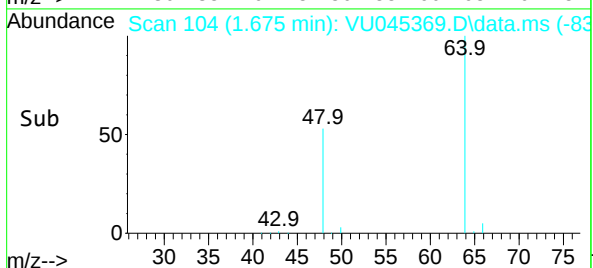
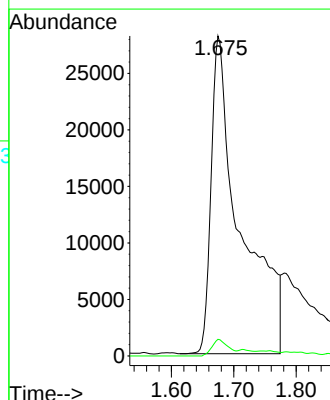
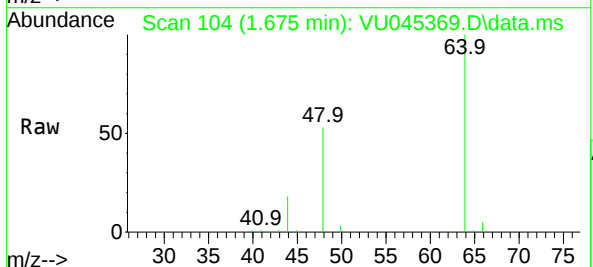
Acq: 22 Oct 2021 16:59

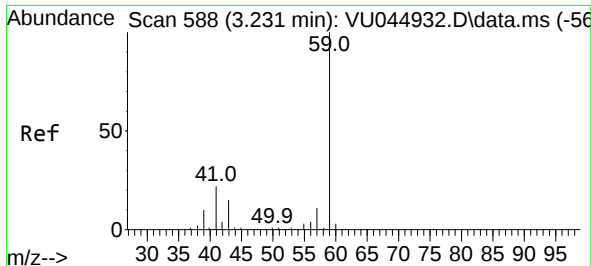
Tgt Ion: 64 Resp: 91798

Ion Ratio Lower Upper

64 100

66 5.3 25.8 38.8#



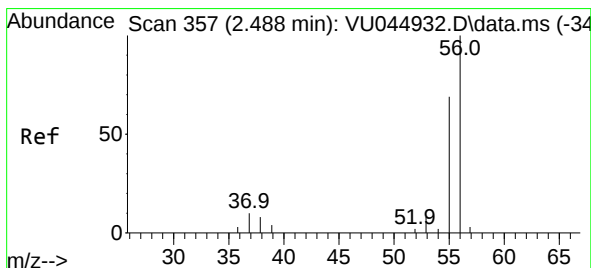
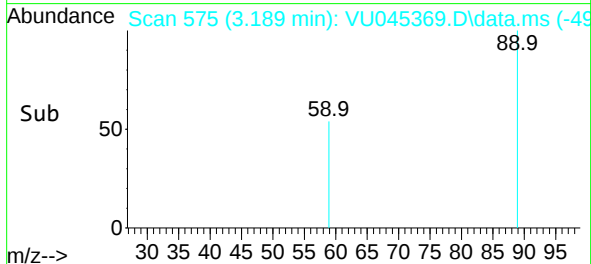
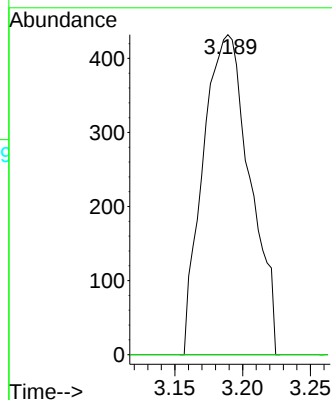
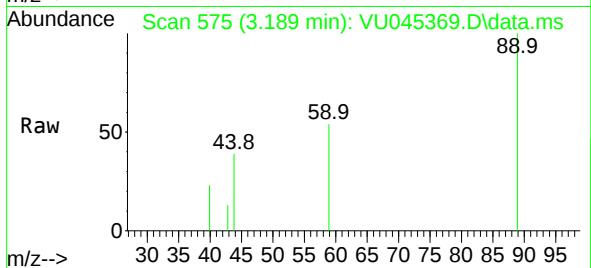


#11

Tert butyl alcohol
Concen: 0.991 ug/l
RT: 3.189 min Scan# 575
Delta R.T. -0.042 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Instrument :
MSVOA_U
ClientSampled :

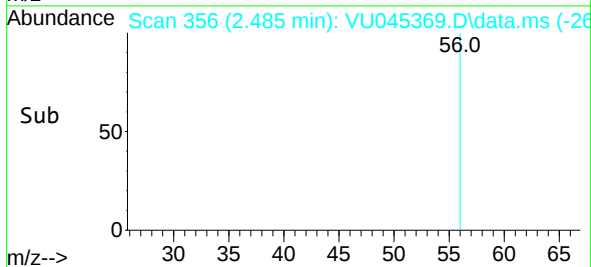
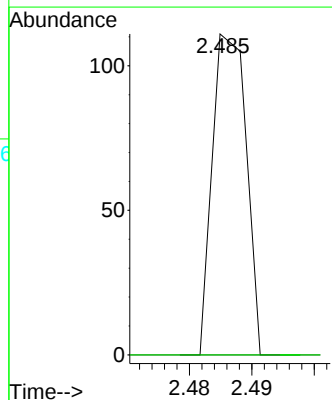
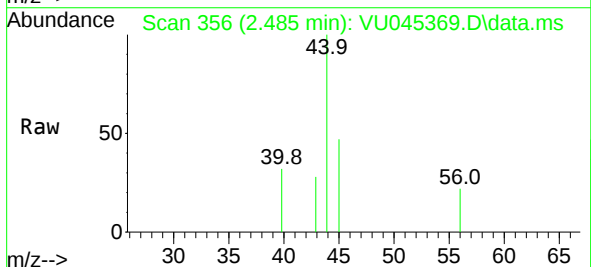
Tgt Ion: 59 Resp: 1042
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

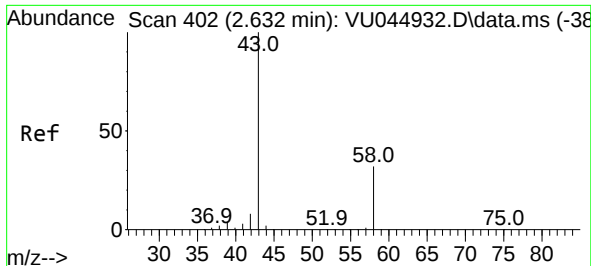


#13

Acrolein
Concen: 3.327 ug/l
RT: 2.485 min Scan# 356
Delta R.T. -0.003 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#

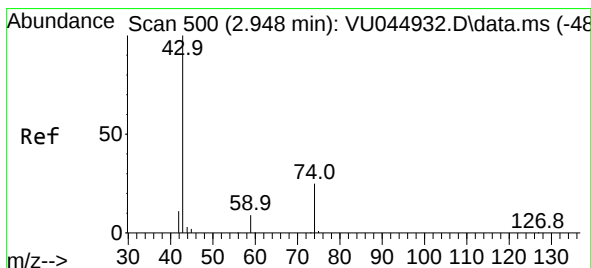
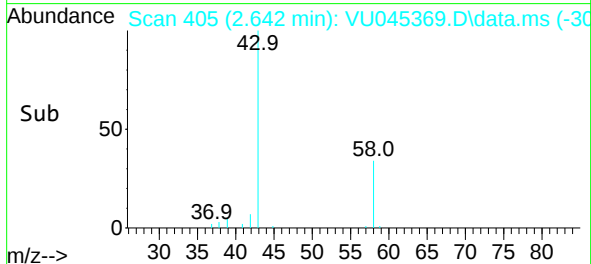
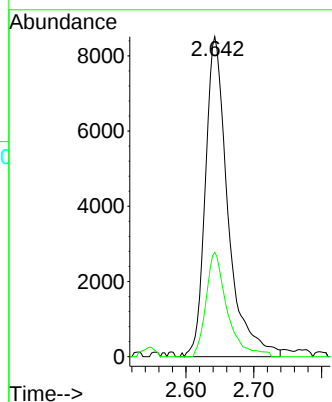
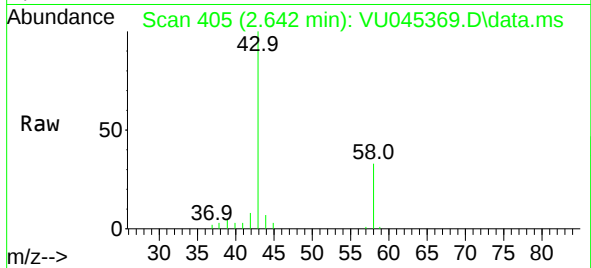




#16
Acetone
Concen: 9.059 ug/l
RT: 2.642 min Scan# 405
Delta R.T. 0.010 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

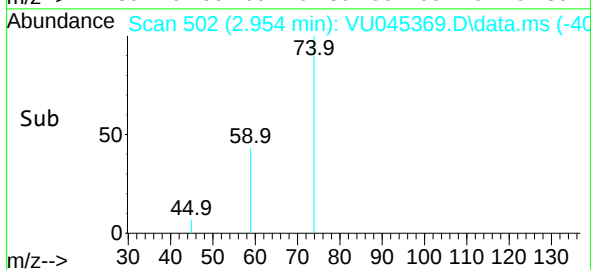
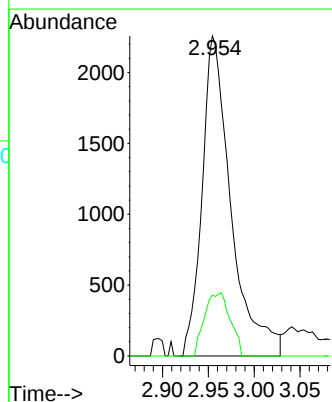
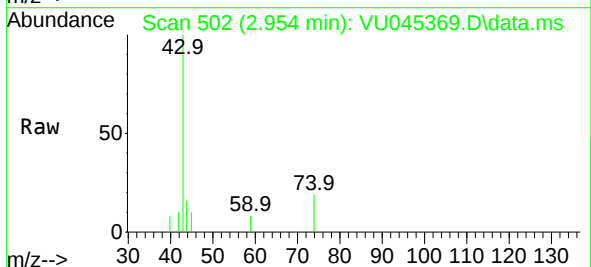
Instrument :
MSVOA_U
ClientSampled :

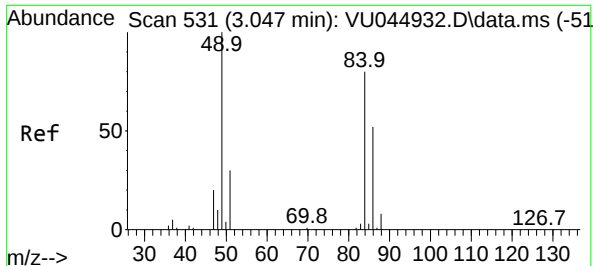
Tgt Ion: 43 Resp: 19708
Ion Ratio Lower Upper
43 100
58 32.6 25.2 37.8



#18
Methyl Acetate
Concen: 0.781 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.006 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Tgt Ion: 43 Resp: 4965
Ion Ratio Lower Upper
43 100
74 17.4 19.0 28.6#

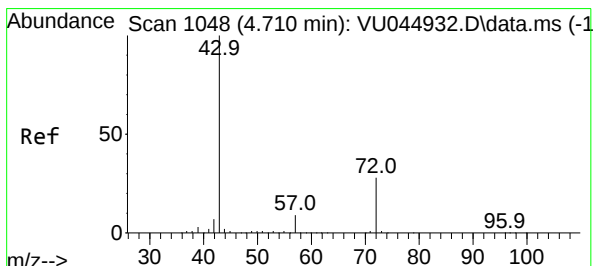
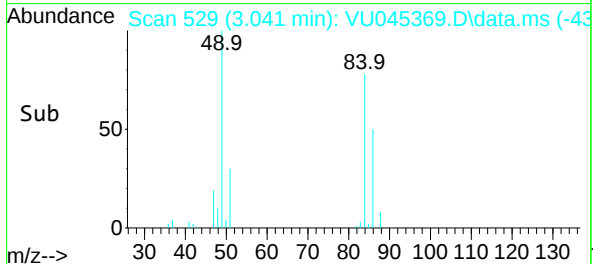
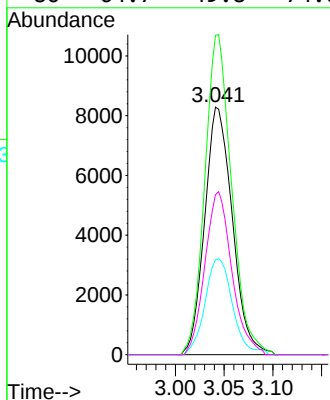
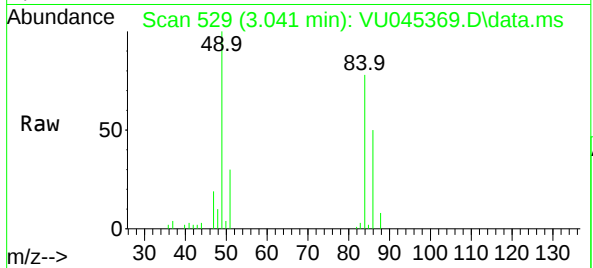




#20
Methylene Chloride
Concen: 5.005 ug/l
RT: 3.041 min Scan# 529
Delta R.T. -0.006 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

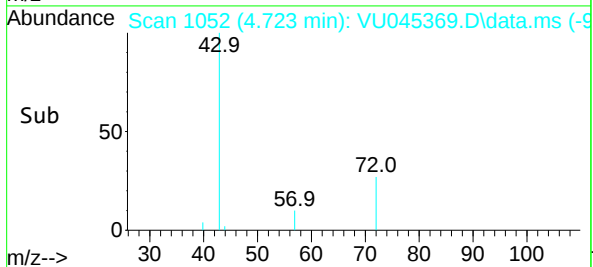
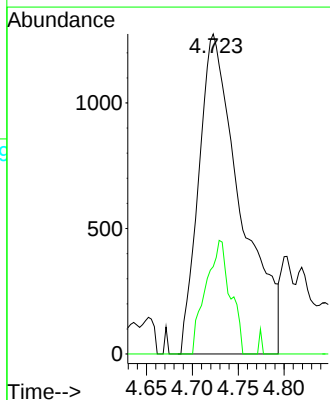
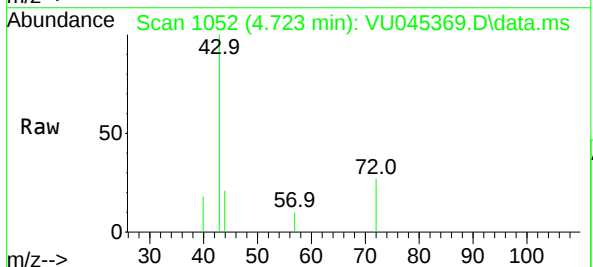
Instrument :
MSVOA_U
ClientSampleId :

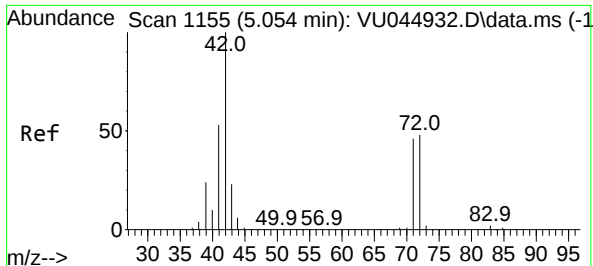
Tgt Ion:	84	Resp:	16399
Ion	Ratio	Lower	Upper
84	100		
49	129.0	104.9	157.3
51	38.3	31.8	47.8
86	64.7	49.8	74.6



#25
2-Butanone
Concen: 1.308 ug/l
RT: 4.723 min Scan# 1052
Delta R.T. 0.013 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Tgt Ion:	43	Resp:	4044
Ion	Ratio	Lower	Upper
43	100		
72	27.3	21.3	31.9





#29

Tetrahydrofuran

Concen: 0.838 ug/l

RT: 5.073 min Scan# 1161

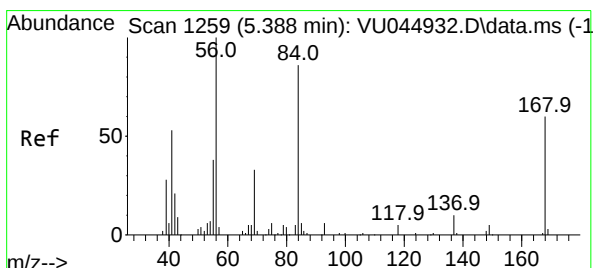
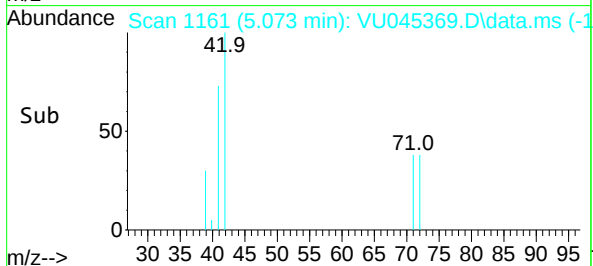
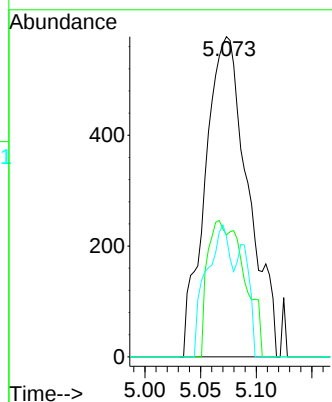
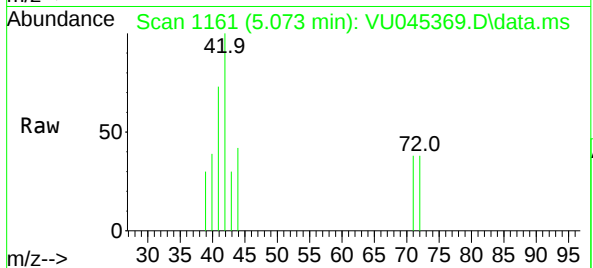
Delta R.T. 0.019 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

Tgt Ion:	42	Resp:	1541
Ion	Ratio	Lower	Upper
42	100		
72	36.5	36.2	54.4
71	24.1	34.1	51.1#

Instrument :
MSVOA_U
ClientSampleId :



#31

Cyclohexane

Concen: 0.941 ug/l

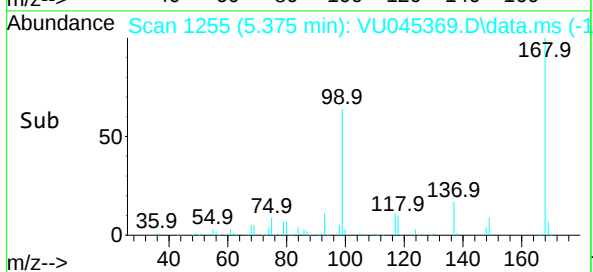
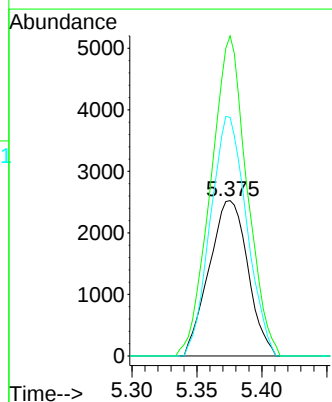
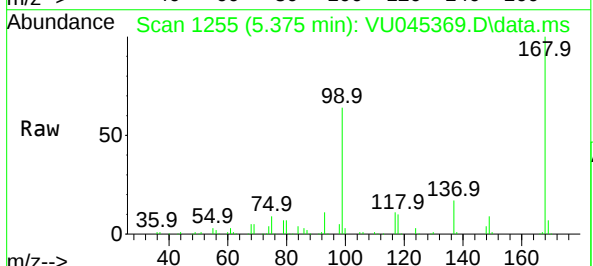
RT: 5.375 min Scan# 1255

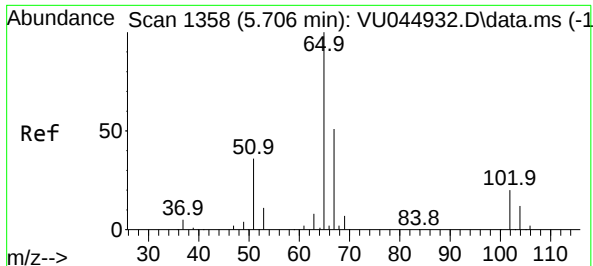
Delta R.T. -0.013 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

Tgt Ion:	56	Resp:	5238
Ion	Ratio	Lower	Upper
56	100		
69	206.0	25.2	37.8#
84	153.5	66.4	99.6#



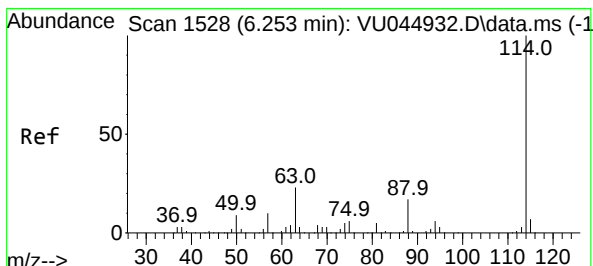
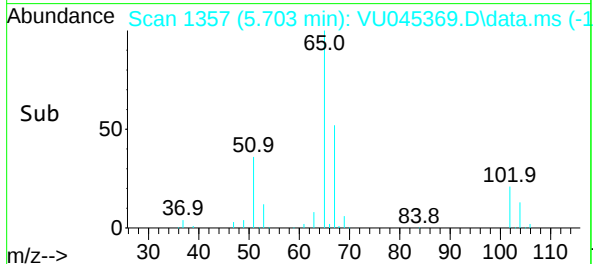
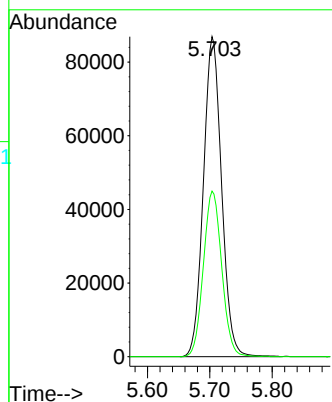
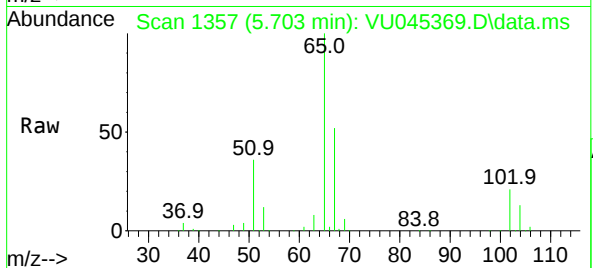


#33

1,2-Dichloroethane-d4
Concen: 48.108 ug/l
RT: 5.703 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Instrument :
MSVOA_U
ClientSampleId :

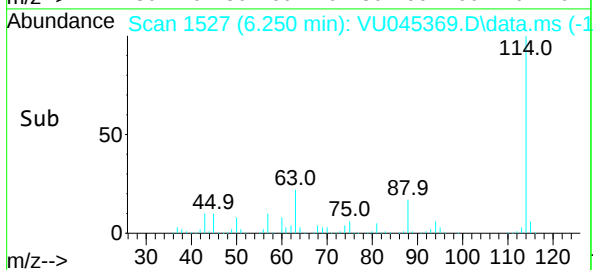
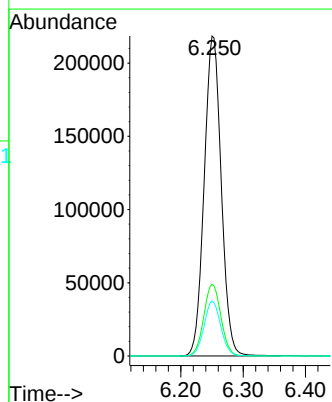
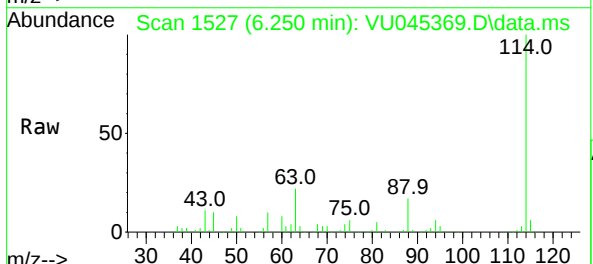
Tgt Ion: 65 Resp: 176323
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.8

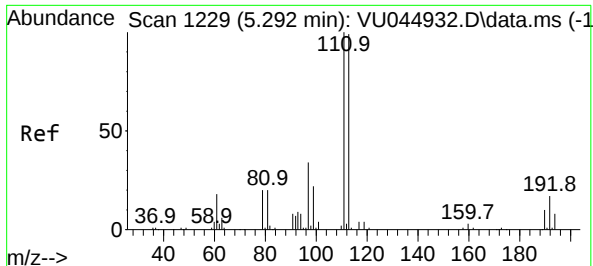


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.250 min Scan# 1527
Delta R.T. -0.003 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Tgt Ion: 114 Resp: 415001
Ion Ratio Lower Upper
114 100
63 22.4 0.0 47.8
88 17.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.886 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

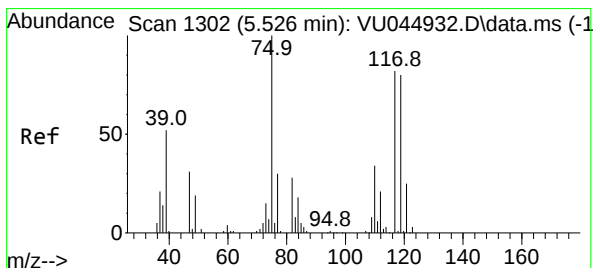
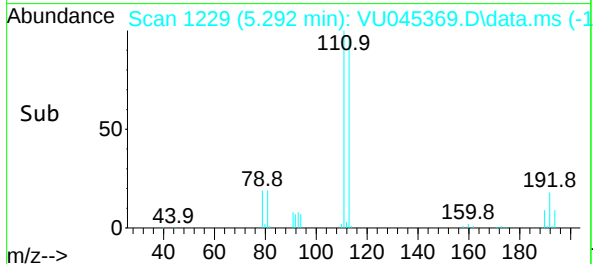
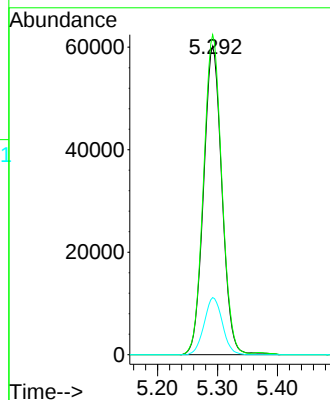
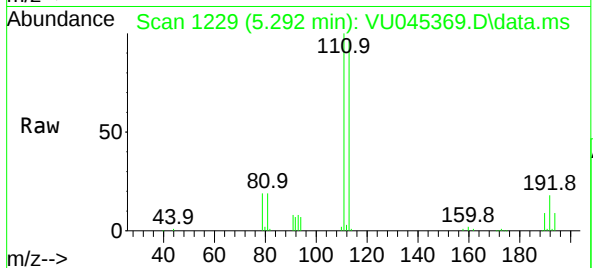
Tgt Ion:113 Resp: 127982

Ion Ratio Lower Upper

113 100

111 103.6 84.1 126.1

192 18.4 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.756 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.154 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

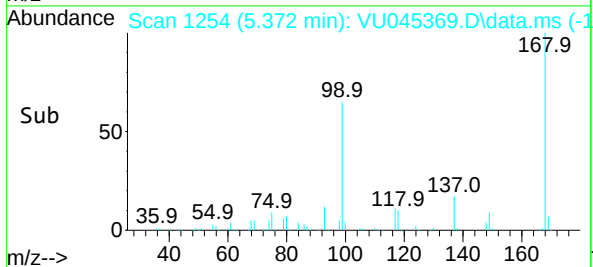
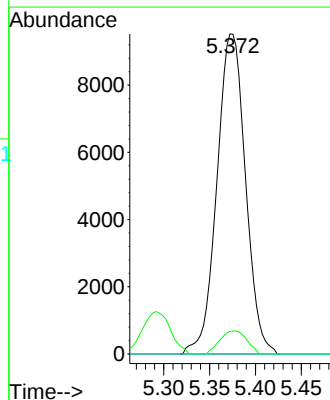
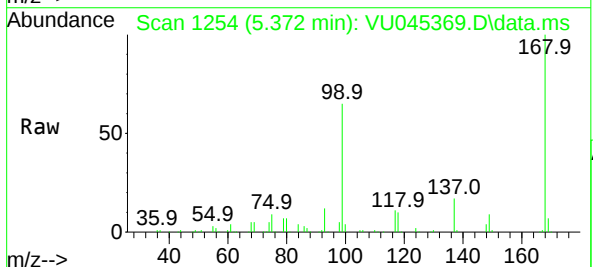
Tgt Ion: 75 Resp: 20640

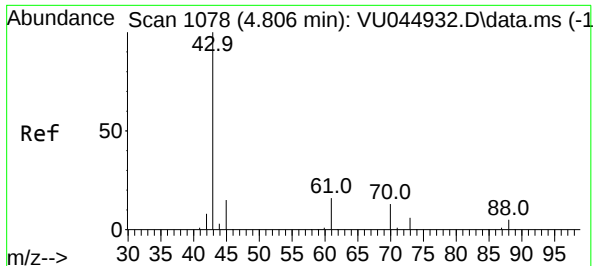
Ion Ratio Lower Upper

75 100

110 6.8 16.3 48.9#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.704 ug/l

RT: 4.723 min Scan# 1052

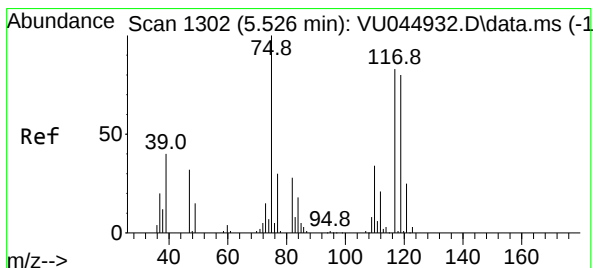
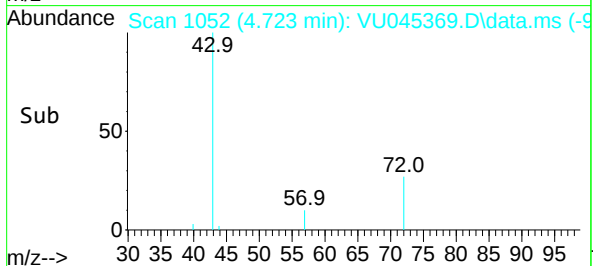
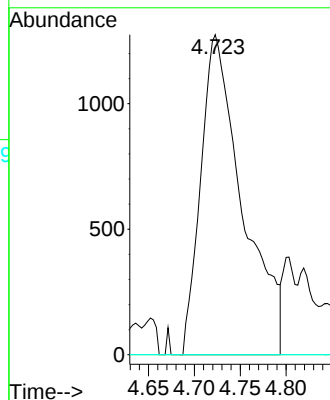
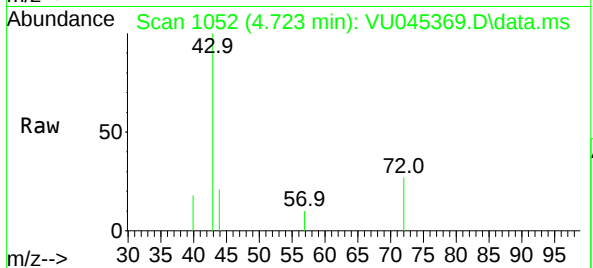
Delta R.T. -0.083 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

Tgt Ion:	43	Resp:	4044
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	0.0	8.2	12.4#

Instrument :
MSVOA_U
ClientSampleId :



#38

Carbon Tetrachloride

Concen: 6.145 ug/l

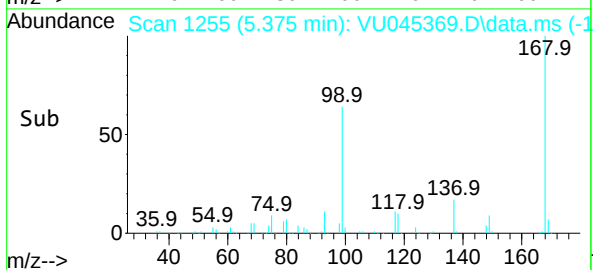
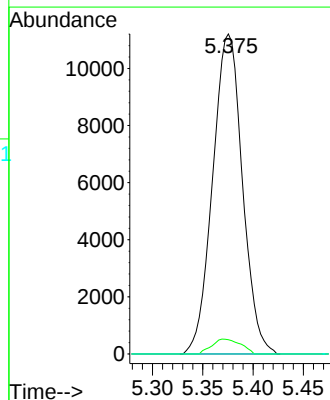
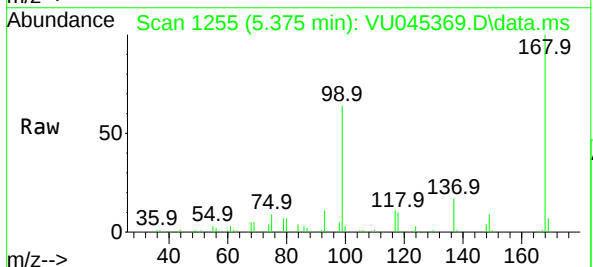
RT: 5.375 min Scan# 1255

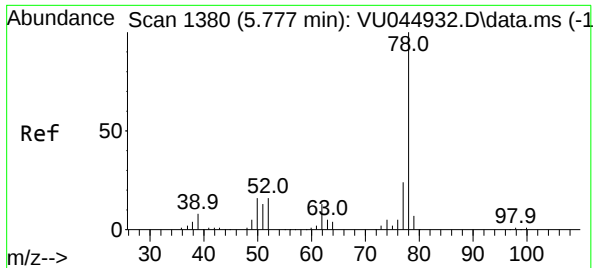
Delta R.T. -0.151 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

Tgt Ion:	117	Resp:	23077
Ion	Ratio	Lower	Upper
117	100		
119	4.5	77.4	116.2#
121	0.0	24.5	36.7#

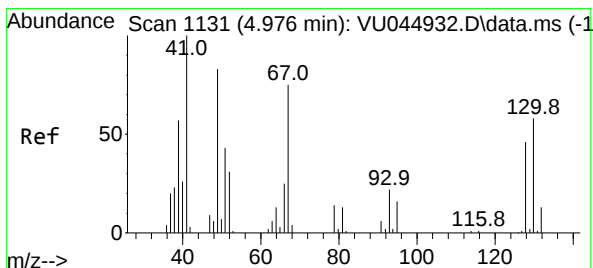
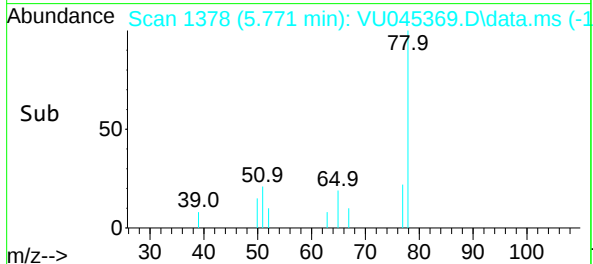
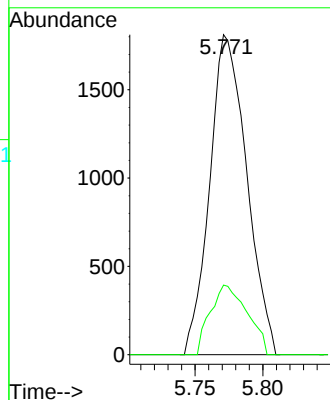
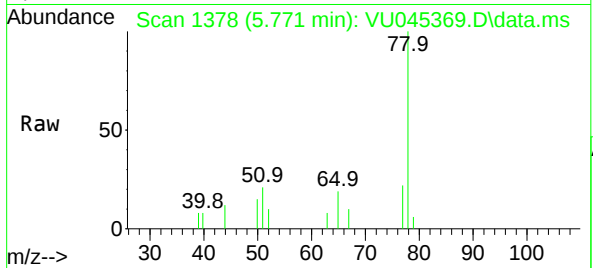




#40
Benzene
Concen: 0.266 ug/l
RT: 5.771 min Scan# 1378
Delta R.T. -0.006 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

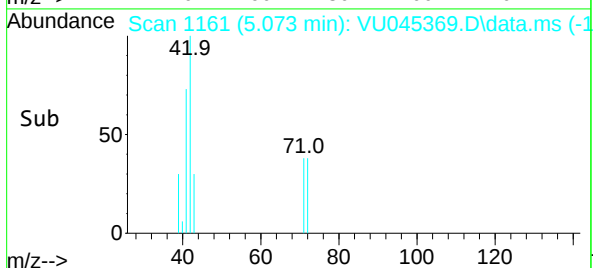
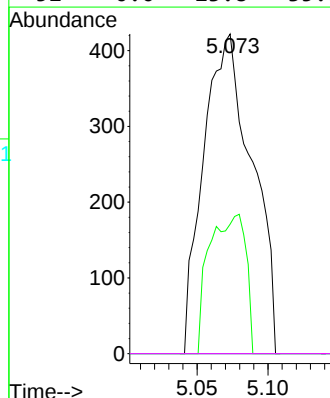
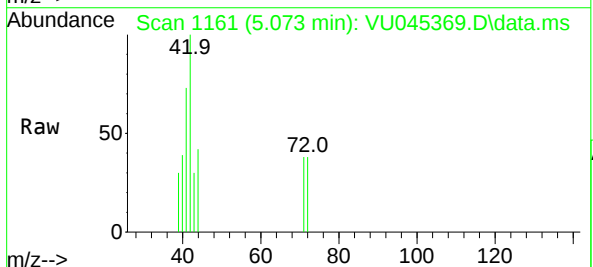
Instrument :
MSVOA_U
ClientSampled :

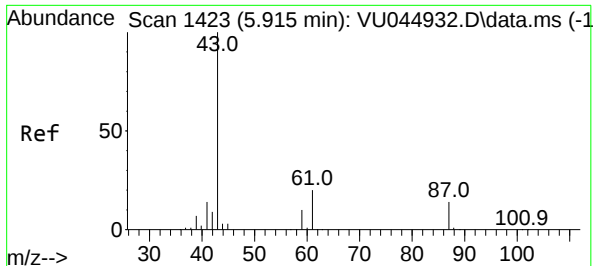
Tgt Ion: 78 Resp: 3442
Ion Ratio Lower Upper
78 100
77 21.7 19.1 28.7



#41
Methacrylonitrile
Concen: 0.340 ug/l
RT: 5.073 min Scan# 1161
Delta R.T. 0.097 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

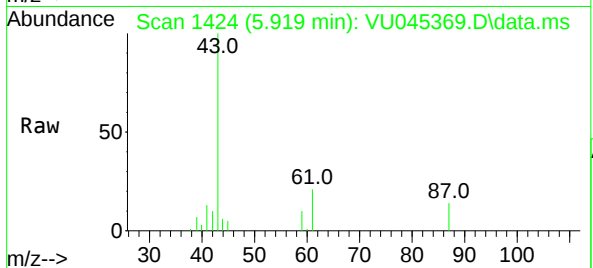
Tgt Ion: 41 Resp: 1005
Ion Ratio Lower Upper
41 100
39 32.6 44.4 66.6#
67 0.0 58.1 87.1#
52 0.0 23.8 35.8#



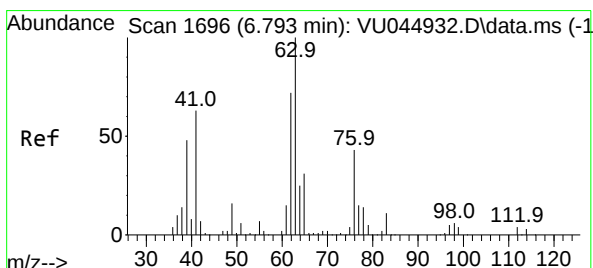
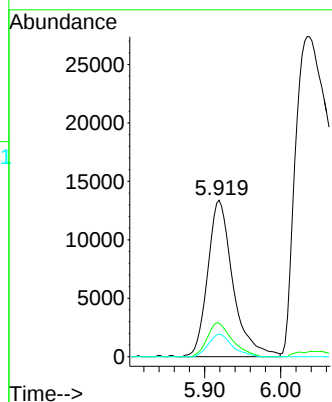
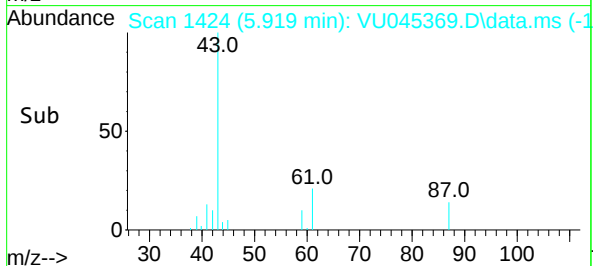


#43
Isopropyl Acetate
Concen: 3.575 ug/l
RT: 5.919 min Scan# 1424
Delta R.T. 0.004 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

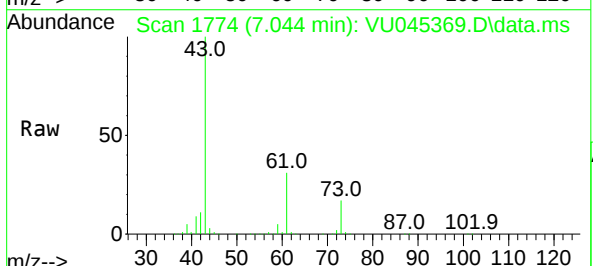
Instrument :
MSVOA_U
ClientSampled :



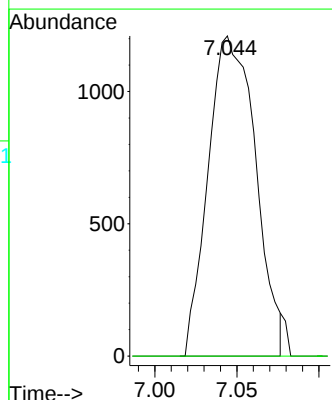
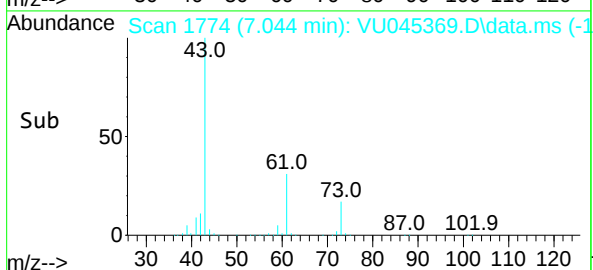
Tgt Ion: 43 Resp: 30888
Ion Ratio Lower Upper
43 100
61 21.3 16.1 24.1
87 13.5 10.3 15.5

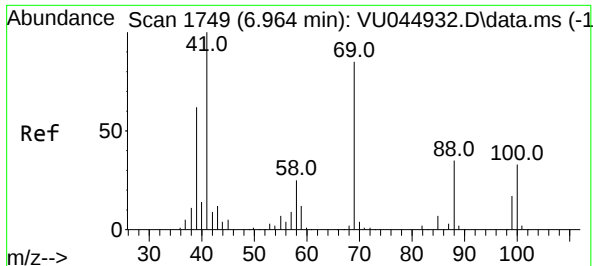


#45
1,2-Dichloropropane
Concen: 0.709 ug/l
RT: 7.044 min Scan# 1774
Delta R.T. 0.251 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59



Tgt Ion: 63 Resp: 2431
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 2.548 ug/l

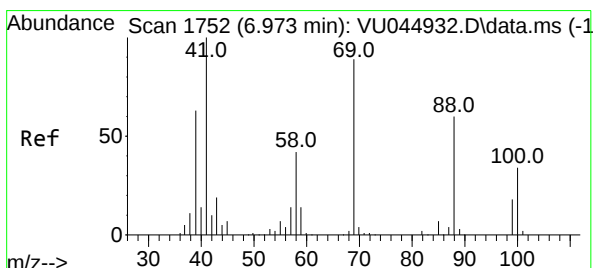
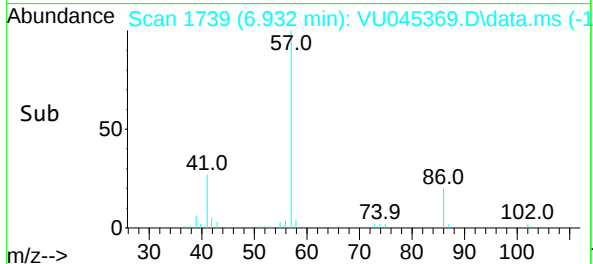
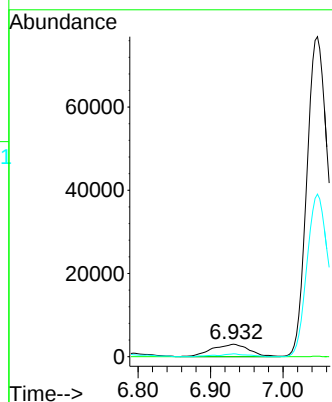
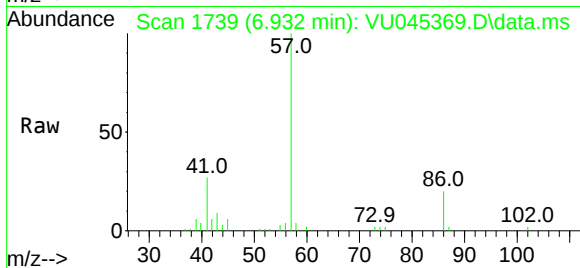
RT: 6.932 min Scan# 1739

Delta R.T. -0.032 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

Tgt Ion:	41	Resp:	10713
Ion Ratio	Lower	Upper	
41	100		
69	0.0	65.6	98.4#
39	0.0	46.2	69.4#



#49

1,4-Dioxane

Concen: Below Cal

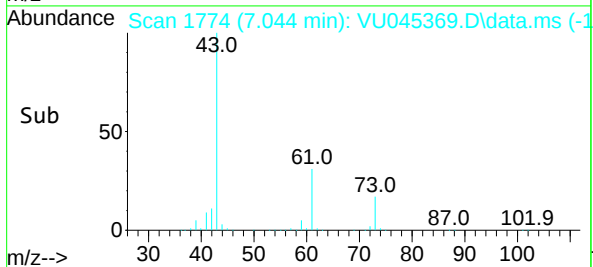
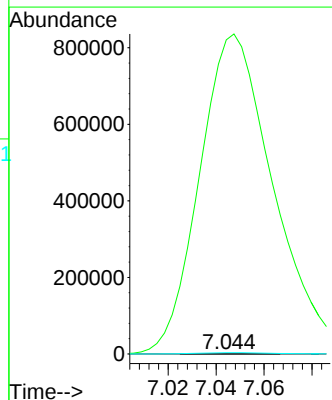
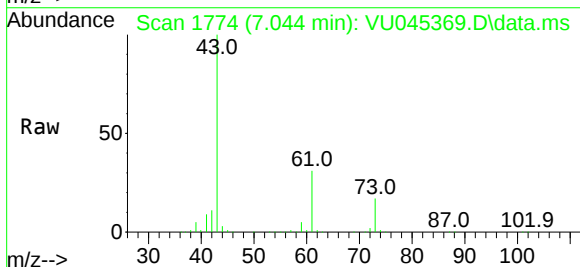
RT: 7.044 min Scan# 1774

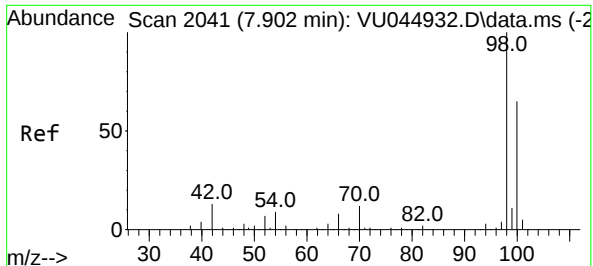
Delta R.T. 0.071 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

Tgt Ion:	88	Resp:	272
Ion Ratio	Lower	Upper	
88	100		
43	662184.9	25.8	38.6#
58	2713.6	61.3	91.9#

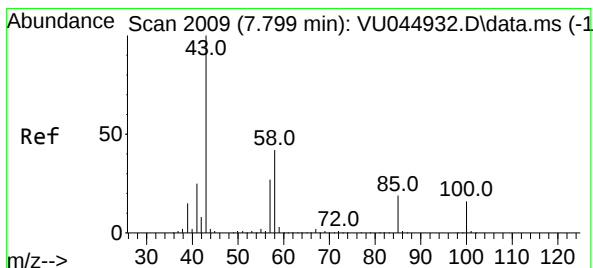
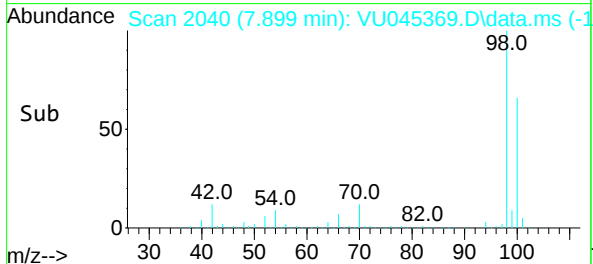
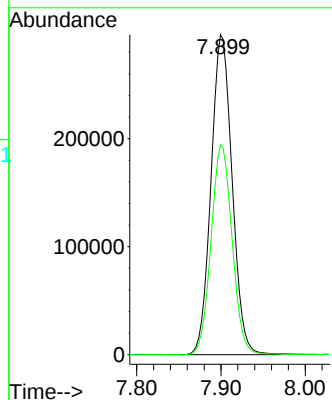
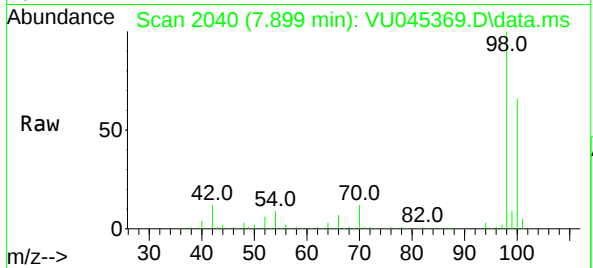




#50
Toluene-d8
Concen: 49.801 ug/l
RT: 7.899 min Scan# 2040
Delta R.T. -0.003 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

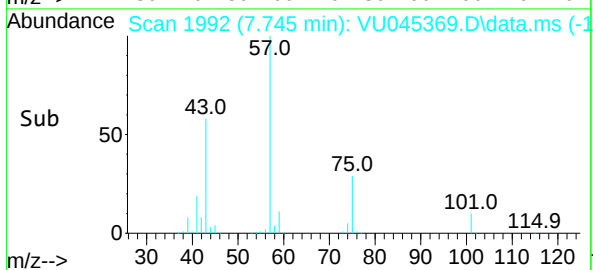
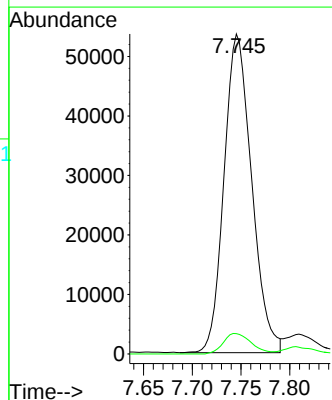
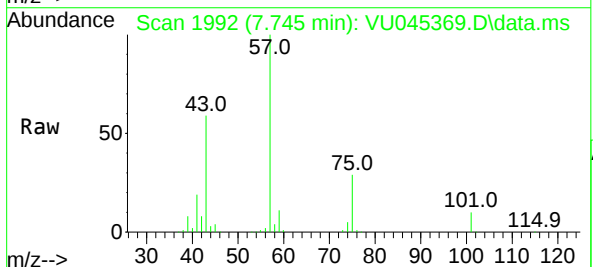
Instrument :
MSVOA_U
ClientSampled :

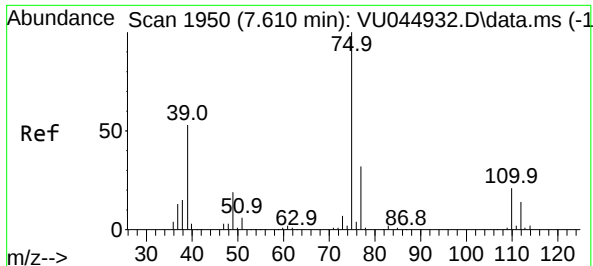
Tgt Ion: 98 Resp: 515142
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 16.781 ug/l
RT: 7.745 min Scan# 1992
Delta R.T. -0.054 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Tgt Ion: 43 Resp: 105542
Ion Ratio Lower Upper
43 100
58 6.6 32.4 48.6#

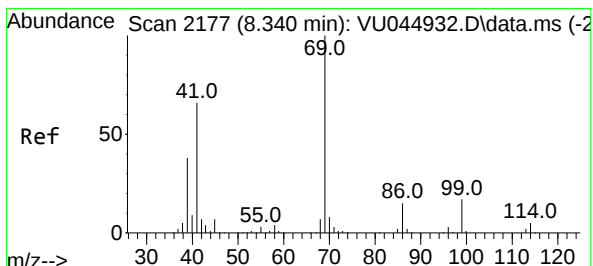
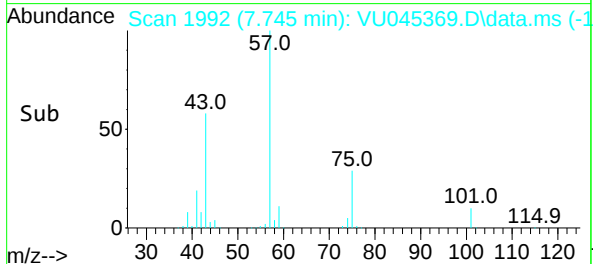
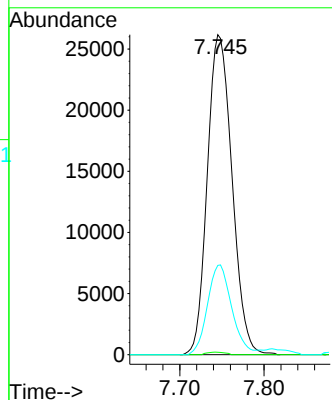
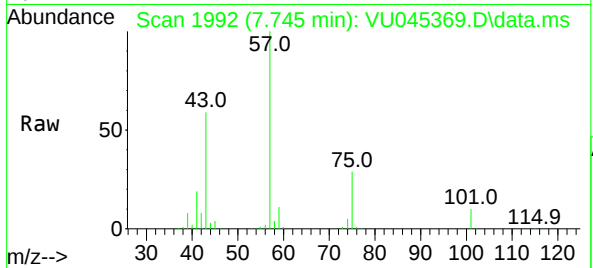




#54
 cis-1,3-Dichloropropene
 Concen: 9.992 ug/l
 RT: 7.745 min Scan# 1992
 Delta R.T. 0.135 min
 Lab File: VU045369.D
 Acq: 22 Oct 2021 16:59

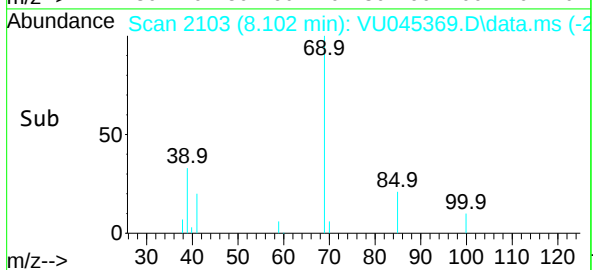
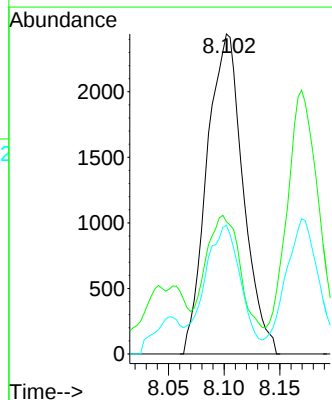
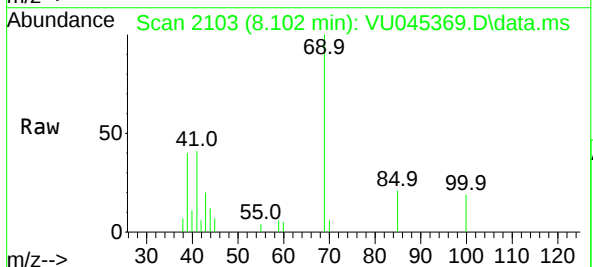
Instrument :
 MSVOA_U
 ClientSampleId :

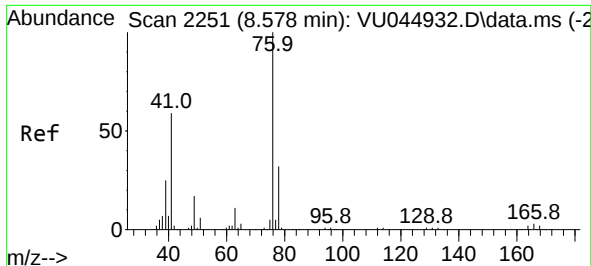
Tgt Ion: 75 Resp: 53352
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.0 37.6#
 39 27.9 41.4 62.2#



#56
 Ethyl methacrylate
 Concen: 2.631 ug/l
 RT: 8.102 min Scan# 2103
 Delta R.T. -0.238 min
 Lab File: VU045369.D
 Acq: 22 Oct 2021 16:59

Tgt Ion: 69 Resp: 5506
 Ion Ratio Lower Upper
 69 100
 41 31.7 53.5 80.3#
 39 32.3 31.1 46.7



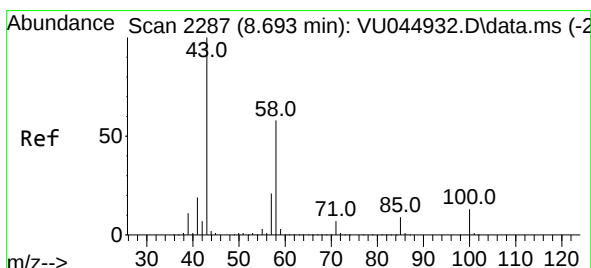
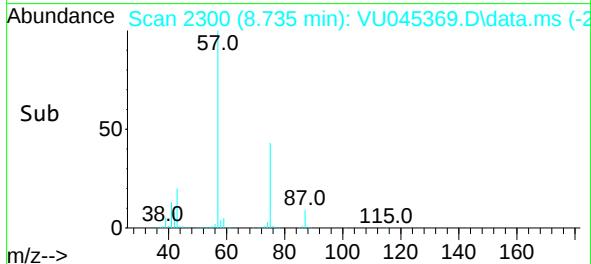
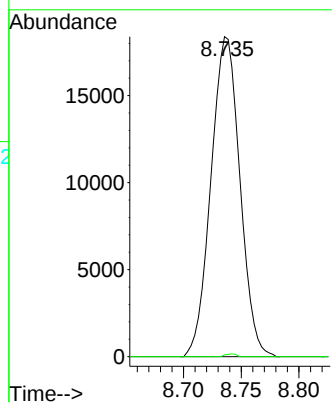
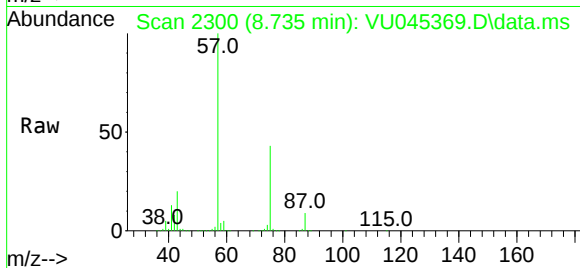


#57

1,3-Dichloropropane
Concen: 5.328 ug/l
RT: 8.735 min Scan# 2300
Delta R.T. 0.157 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Instrument :
MSVOA_U
ClientSampled :

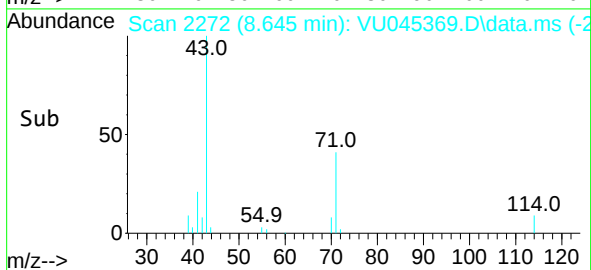
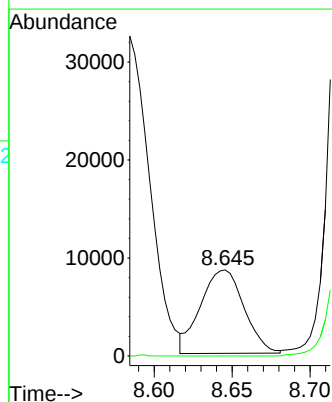
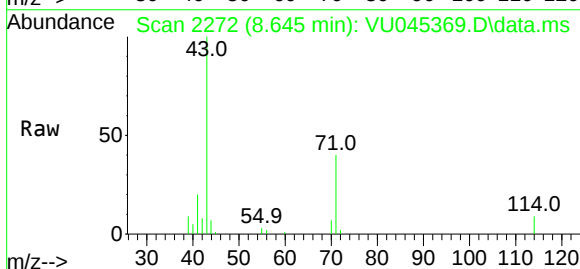
Tgt Ion: 76 Resp: 32050
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#

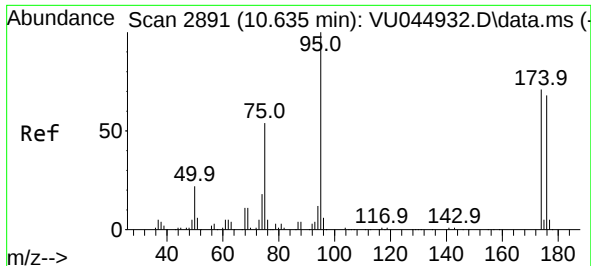


#59

2-Hexanone
Concen: 3.218 ug/l
RT: 8.645 min Scan# 2272
Delta R.T. -0.048 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Tgt Ion: 43 Resp: 16481
Ion Ratio Lower Upper
43 100
58 0.0 28.0 84.0#

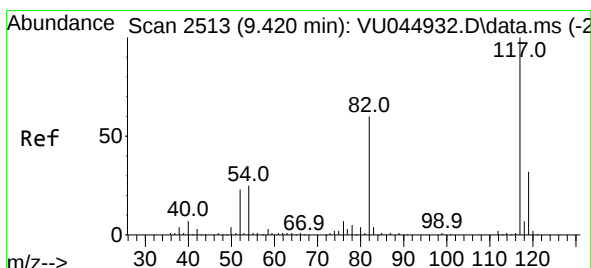
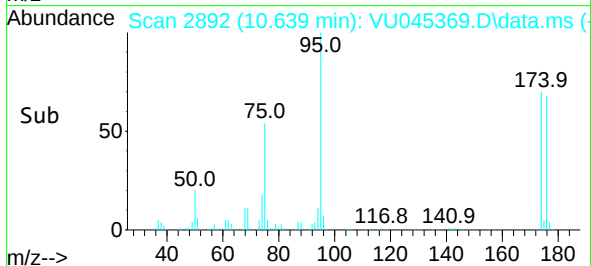
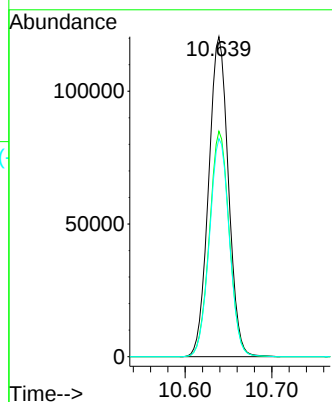
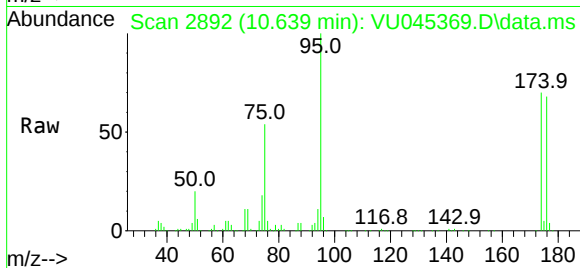




#62
4-Bromofluorobenzene
Concen: 44.836 ug/l
RT: 10.639 min Scan# 2892
Delta R.T. 0.004 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

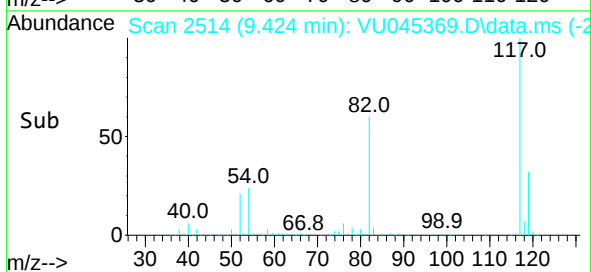
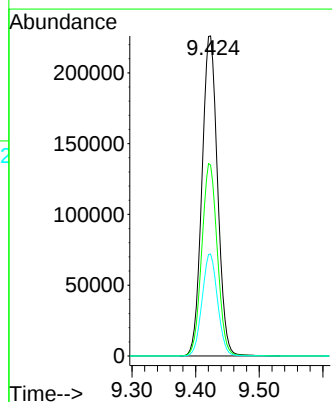
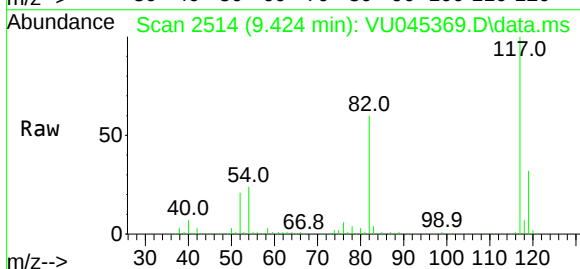
Instrument :
MSVOA_U
ClientSampleId :

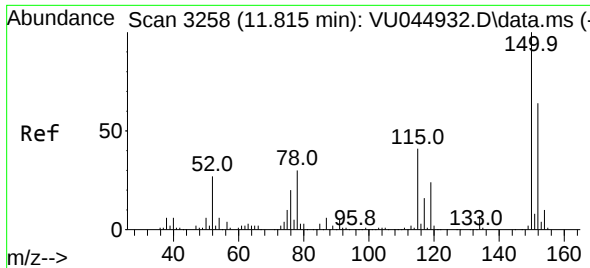
Tgt Ion: 95 Resp: 191476
Ion Ratio Lower Upper
95 100
174 70.7 0.0 146.6
176 68.6 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.424 min Scan# 2514
Delta R.T. 0.004 min
Lab File: VU045369.D
Acq: 22 Oct 2021 16:59

Tgt Ion: 117 Resp: 385398
Ion Ratio Lower Upper
117 100
82 59.7 47.8 71.8
119 31.8 25.8 38.6

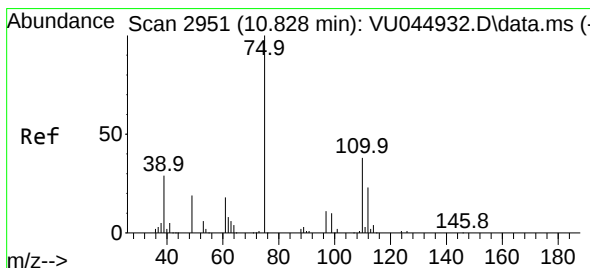
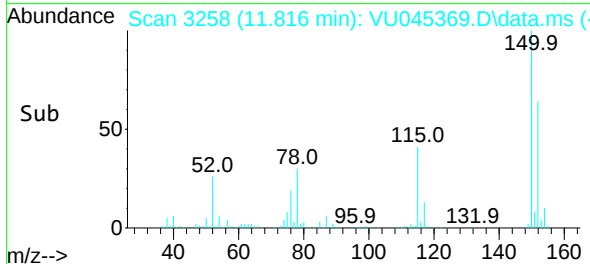
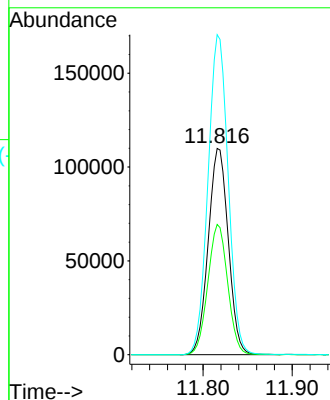
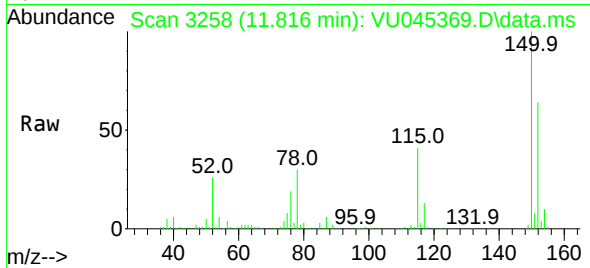




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.816 min Scan# 3258
 Delta R.T. 0.001 min
 Lab File: VU045369.D
 Acq: 22 Oct 2021 16:59

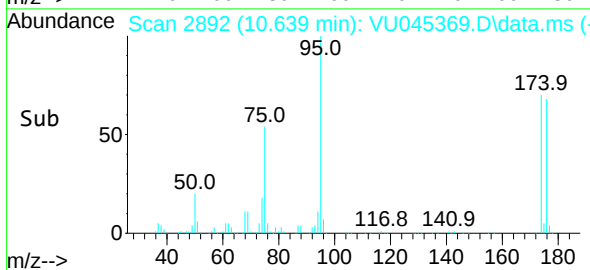
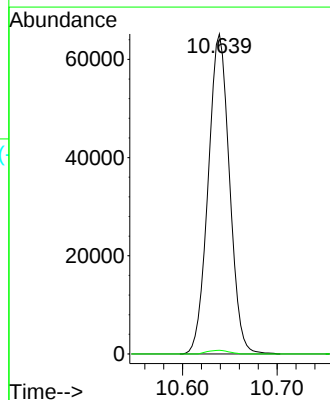
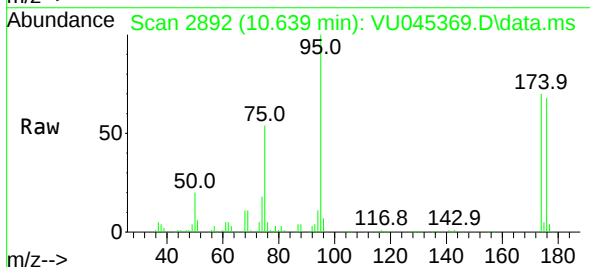
Instrument :
 MSVOA_U
 ClientSampled :

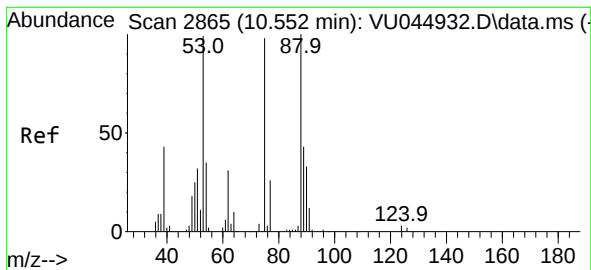
Tgt Ion:152 Resp: 171788
 Ion Ratio Lower Upper
 152 100
 115 62.5 43.5 130.7
 150 156.1 0.0 350.0



#76
 1,2,3-Trichloropropane
 Concen: 20.386 ug/l
 RT: 10.639 min Scan# 2892
 Delta R.T. -0.189 min
 Lab File: VU045369.D
 Acq: 22 Oct 2021 16:59

Tgt Ion: 75 Resp: 102150
 Ion Ratio Lower Upper
 75 100
 77 1.1 17.9 53.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 56.575 ug/l

RT: 10.639 min Scan# 2892

Delta R.T. 0.087 min

Lab File: VU045369.D

Acq: 22 Oct 2021 16:59

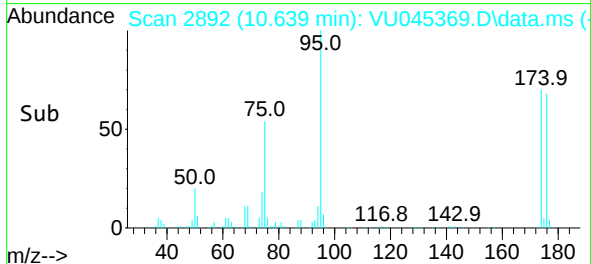
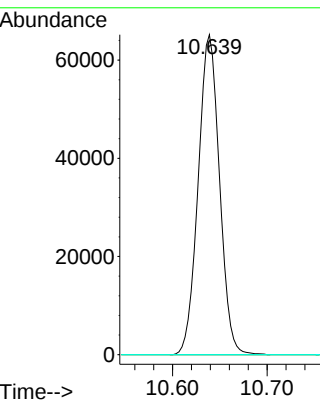
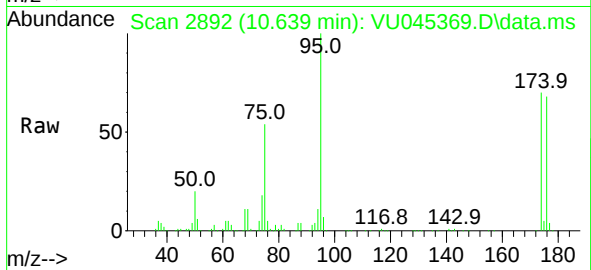
Tgt Ion: 75 Resp: 102150

Ion Ratio Lower Upper

75 100

53 0.0 82.0 123.0#

89 0.0 34.2 51.4#



Instrument :
MSVOA_U
ClientSampleId :