

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102921\
 Data File : VU045472.D
 Acq On : 29 Oct 2021 18:26
 Operator : SY/MD
 Sample : M4345-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MH-GGD

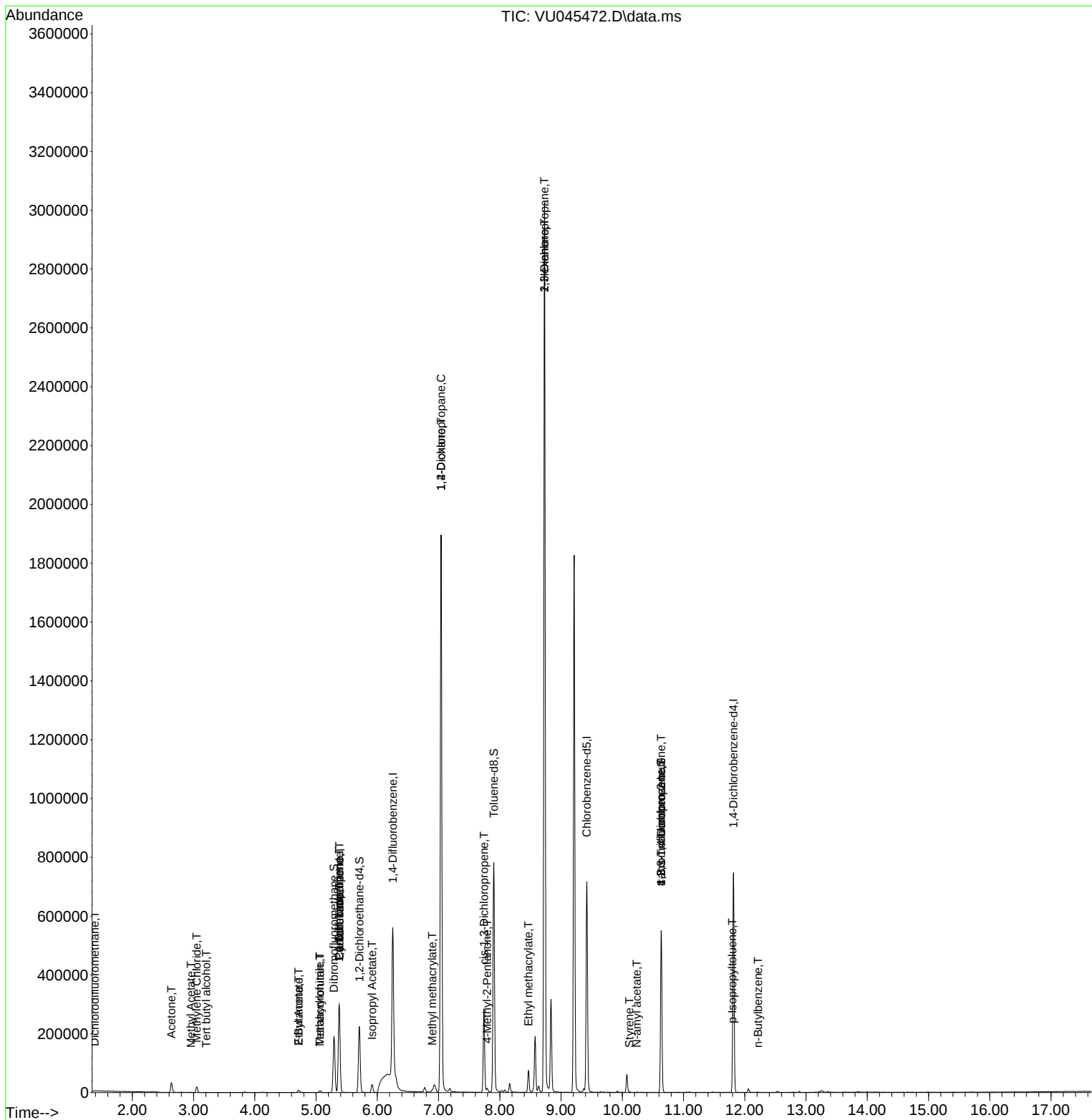
Quant Time: Oct 30 04:09:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U102821W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 29 11:09:42 2021
 Response via : Initial Calibration

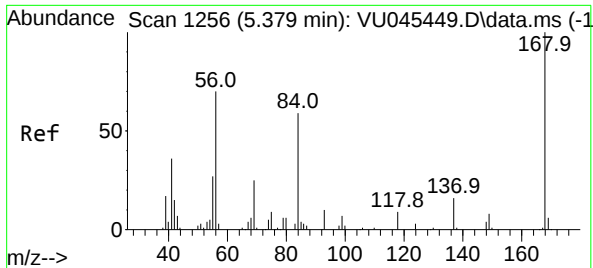
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.378	168	197677	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	397137	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	381539	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.815	152	181720	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	167527	52.055	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 104.120%	
35) Dibromofluoromethane	5.292	113	124496	49.302	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.600%	
50) Toluene-d8	7.902	98	508098	51.312	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 102.620%	
62) 4-Bromofluorobenzene	10.635	95	189923	50.333	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.660%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.388	85	40	0.390	ug/l #	43
11) Tert butyl alcohol	3.205	59	806	1.160	ug/l #	72
16) Acetone	2.639	43	42275	28.935	ug/l	100
18) Methyl Acetate	2.957	43	1368	0.251	ug/l #	78
20) Methylene Chloride	3.050	84	9117	3.132	ug/l	98
25) 2-Butanone	4.713	43	12499	5.667	ug/l	98
29) Tetrahydrofuran	5.063	42	4672	3.266	ug/l	91
31) Cyclohexane	5.378	56	4766	0.995	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	18557	4.909	ug/l #	49
37) Ethyl Acetate	4.713	43	12499	2.730	ug/l #	67
38) Carbon Tetrachloride	5.378	117	20260	6.145	ug/l #	16
41) Methacrylonitrile	5.063	41	2539	1.048	ug/l #	47
43) Isopropyl Acetate	5.915	43	29988	4.346	ug/l	99
45) 1,2-Dichloropropane	7.041	63	2426	0.810	ug/l #	43
48) Methyl methacrylate	6.896	41	9682	2.961	ug/l #	13
49) 1,4-Dioxane	7.041	88	344	4.139	ug/l #	1
51) 4-Methyl-2-Pentanone	7.793	43	7592	1.702	ug/l	99
54) cis-1,3-Dichloropropene	7.742	75	51301	10.951	ug/l #	60
56) Ethyl methacrylate	8.468	69	175	1.674	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	30658	6.112	ug/l #	42
59) 2-Hexanone	8.729	43	415985	120.393	ug/l #	47
70) Styrene	10.118	104	384	1.018	ug/l #	79
74) N-amyl acetate	10.237	43	743	1.269	ug/l #	40
76) 1,2,3-Trichloropropane	10.635	75	97876	20.215	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.635	75	97876	56.119	ug/l #	12
86) p-Isopropyltoluene	11.793	119	420	0.224	ug/l #	64
89) n-Butylbenzene	12.214	91	624	0.992	ug/l #	77

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

Quant Time: Oct 30 04:09:45 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

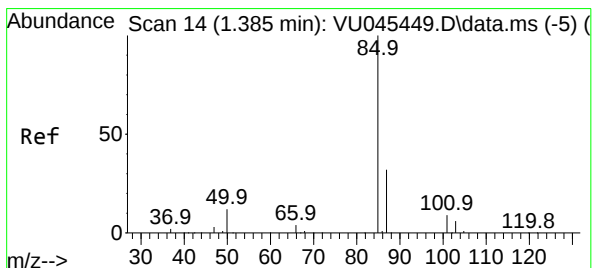
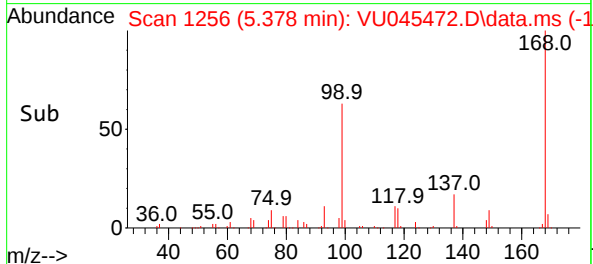
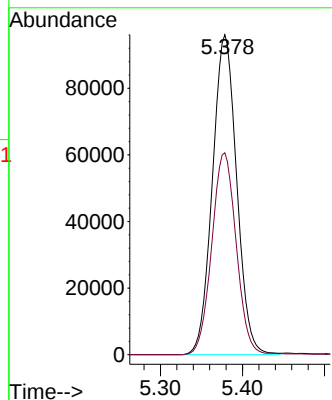
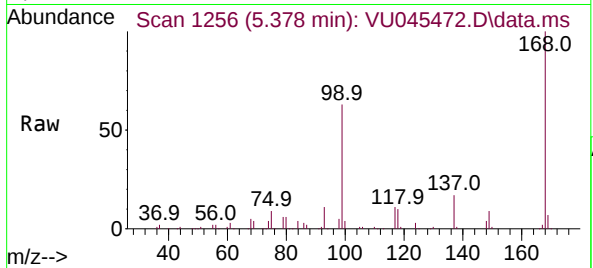




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 11
Delta R.T. -0.001 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

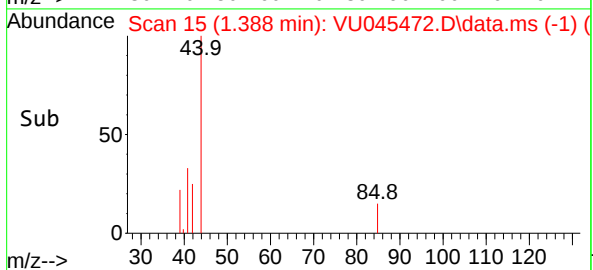
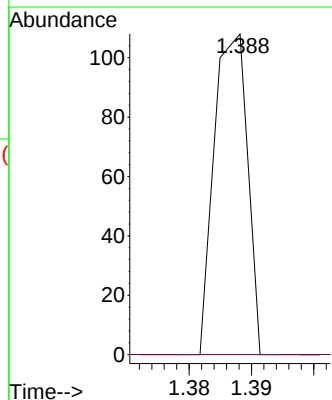
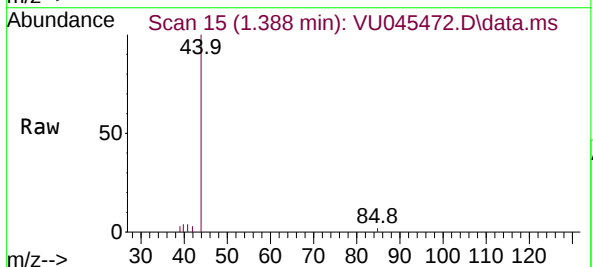
Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

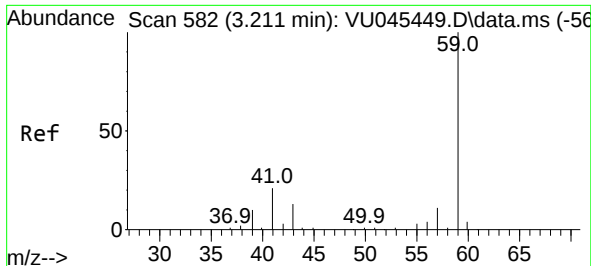
Tgt Ion:168 Resp: 197677
Ion Ratio Lower Upper
168 100
99 63.1 51.0 76.6



#2
Dichlorodifluoromethane
Concen: 0.390 ug/l
RT: 1.388 min Scan# 15
Delta R.T. 0.003 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion: 85 Resp: 40
Ion Ratio Lower Upper
85 100
87 0.0 15.9 47.7#

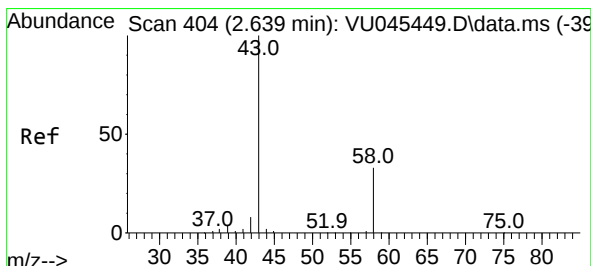
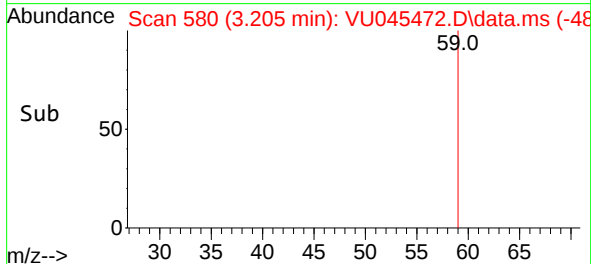
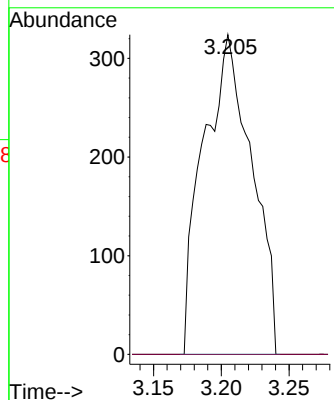
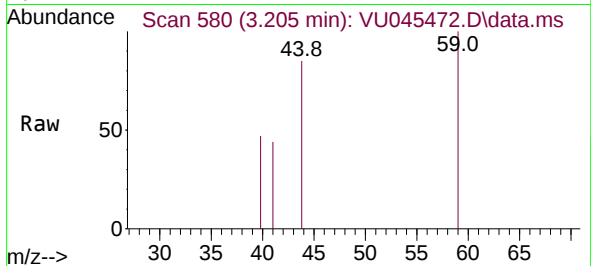




#11
Tert butyl alcohol
Concen: 1.160 ug/l
RT: 3.205 min Scan# 580
Delta R.T. -0.007 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

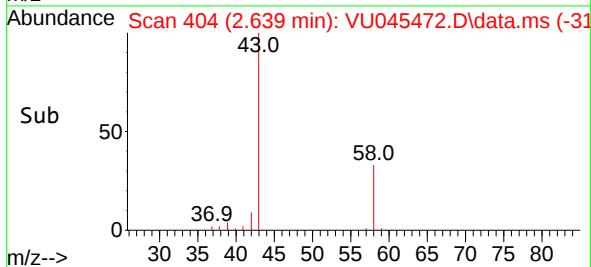
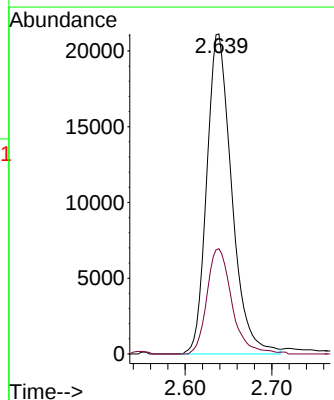
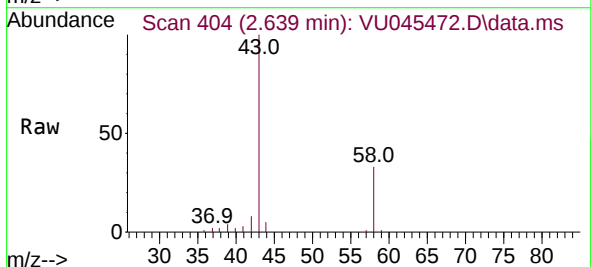
Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

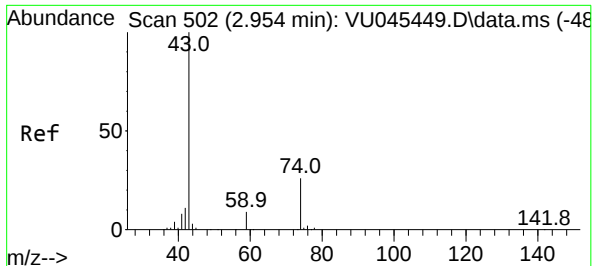
Tgt Ion: 59 Resp: 806
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 28.935 ug/l
RT: 2.639 min Scan# 404
Delta R.T. -0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion: 43 Resp: 42275
Ion Ratio Lower Upper
43 100
58 32.9 26.2 39.2

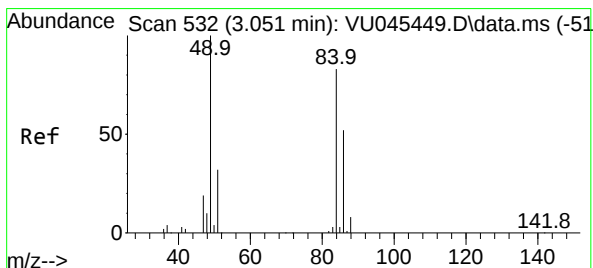
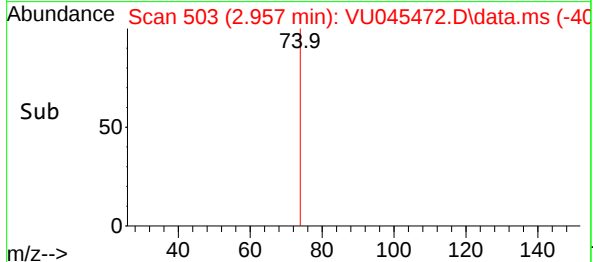
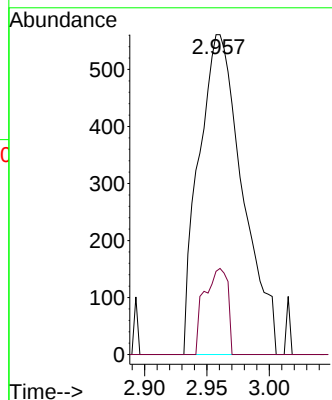
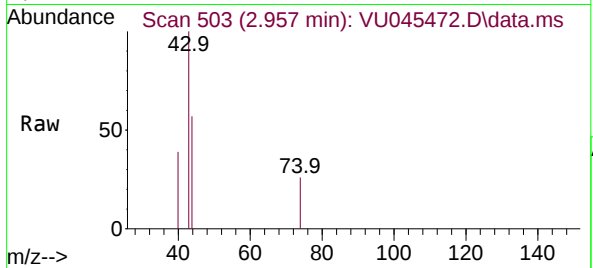




#18
Methyl Acetate
Concen: 0.251 ug/l
RT: 2.957 min Scan# 502
Delta R.T. 0.003 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

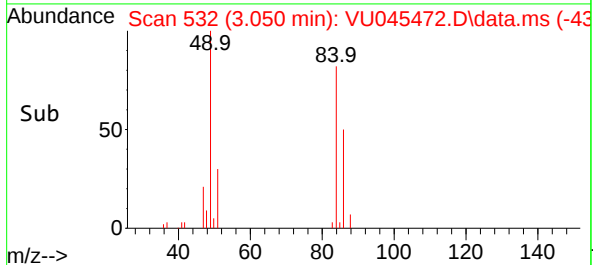
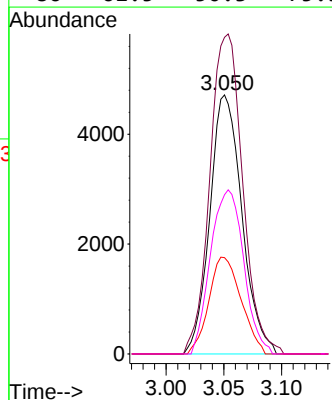
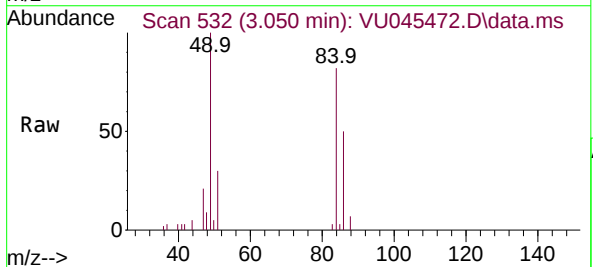
Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

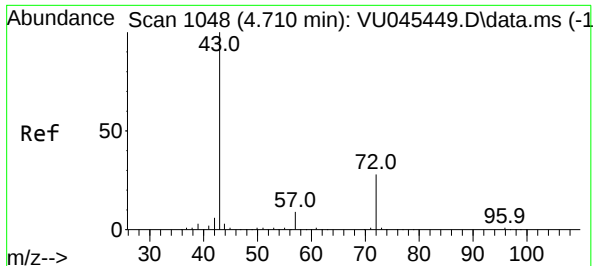
Tgt Ion: 43 Resp: 1368
Ion Ratio Lower Upper
43 100
74 14.3 20.2 30.2#



#20
Methylene Chloride
Concen: 3.132 ug/l
RT: 3.050 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion: 84 Resp: 9117
Ion Ratio Lower Upper
84 100
49 122.2 96.4 144.6
51 37.2 30.5 45.7
86 61.5 50.3 75.5





#25

2-Butanone

Concen: 5.667 ug/l

RT: 4.713 min Scan# 1049

Delta R.T. 0.003 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

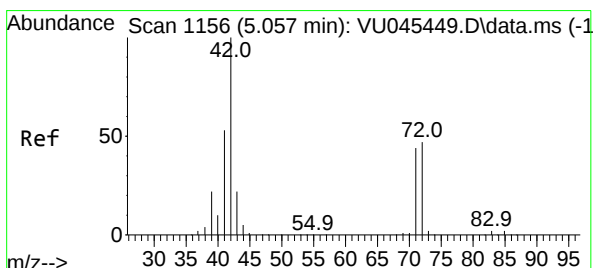
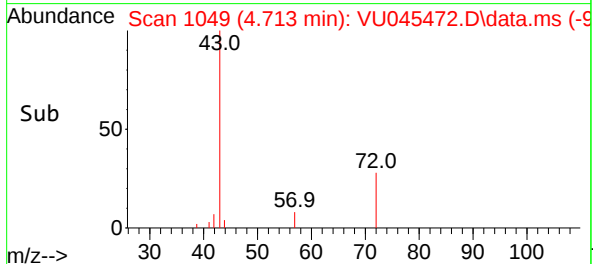
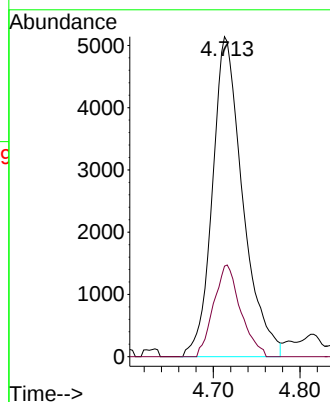
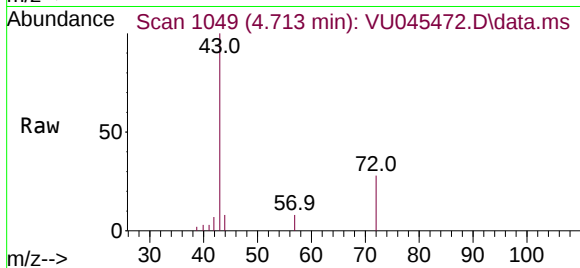
MH-GGD

Tgt Ion: 43 Resp: 12499

Ion Ratio Lower Upper

43 100

72 28.3 22.0 33.0



#29

Tetrahydrofuran

Concen: 3.266 ug/l

RT: 5.063 min Scan# 1158

Delta R.T. 0.006 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

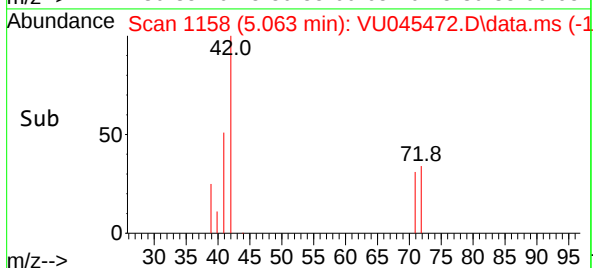
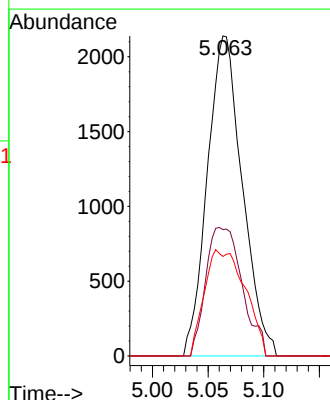
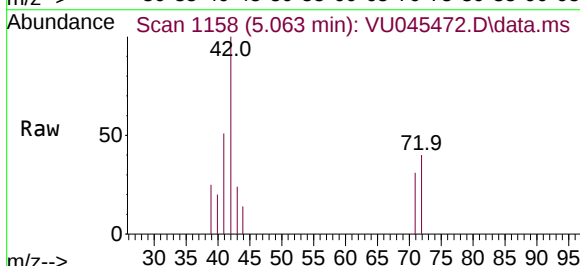
Tgt Ion: 42 Resp: 4672

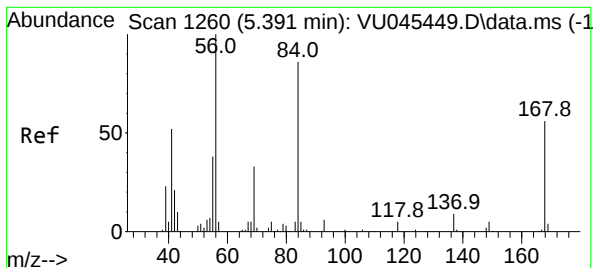
Ion Ratio Lower Upper

42 100

72 41.8 38.2 57.4

71 38.4 35.4 53.2





#31

Cyclohexane

Concen: 0.995 ug/l

RT: 5.378 min Scan# 1256

Delta R.T. -0.013 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD

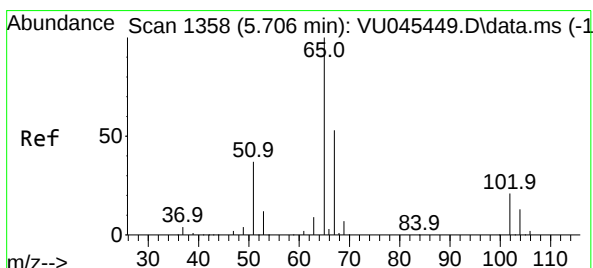
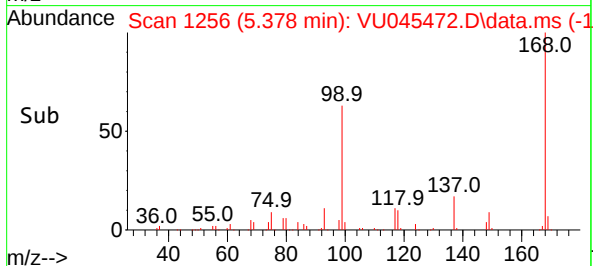
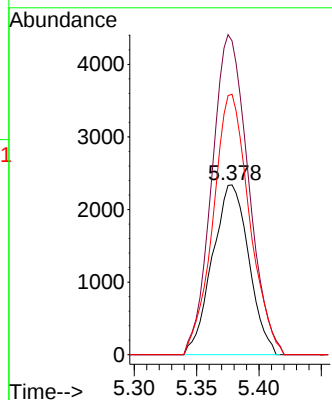
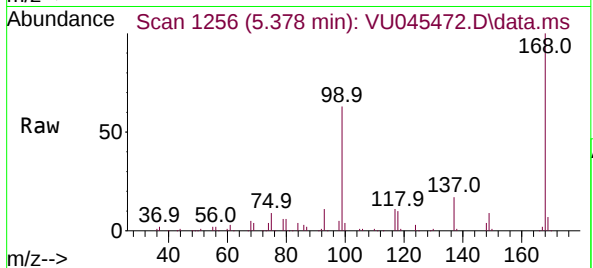
Tgt Ion: 56 Resp: 4766

Ion Ratio Lower Upper

56 100

69 184.8 26.4 39.6#

84 153.4 68.4 102.6#



#33

1,2-Dichloroethane-d4

Concen: 52.055 ug/l

RT: 5.706 min Scan# 1358

Delta R.T. -0.000 min

Lab File: VU045472.D

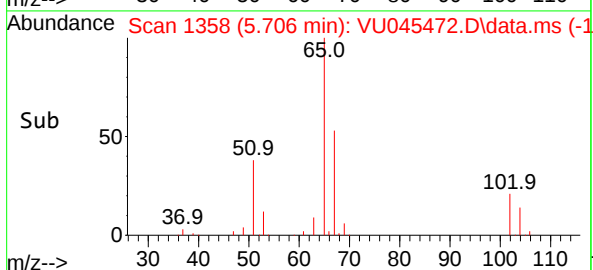
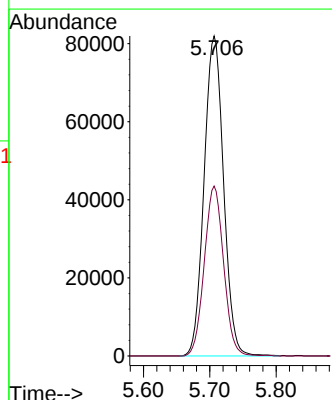
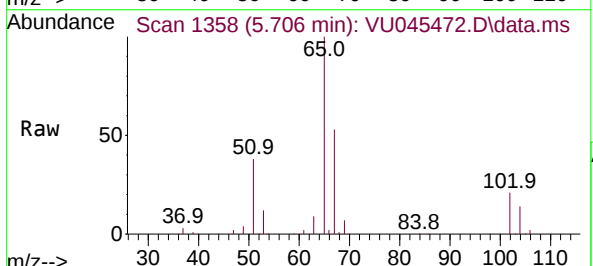
Acq: 29 Oct 2021 18:26

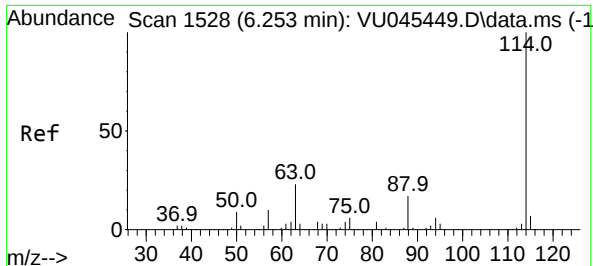
Tgt Ion: 65 Resp: 167527

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# 1

Delta R.T. -0.000 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD

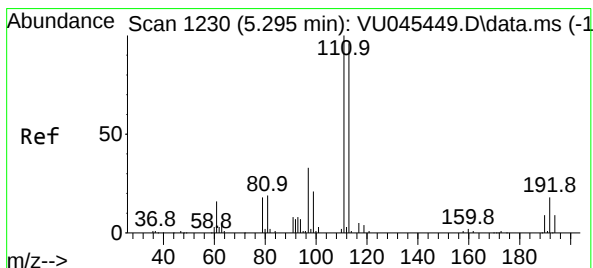
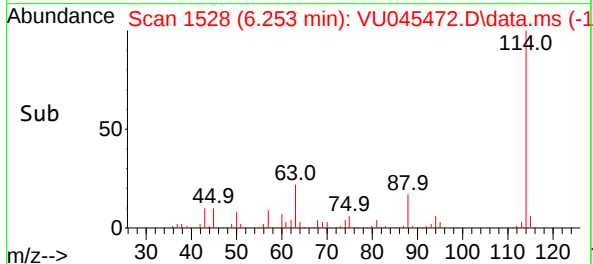
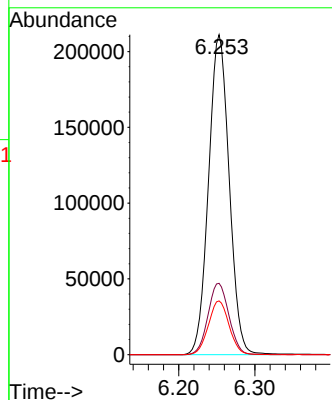
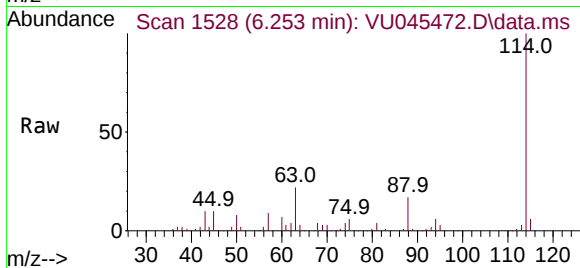
Tgt Ion:114 Resp: 397137

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.6

88 16.8 0.0 33.8



#35

Dibromofluoromethane

Concen: 49.302 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.003 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

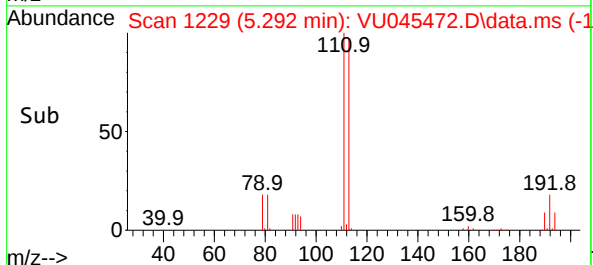
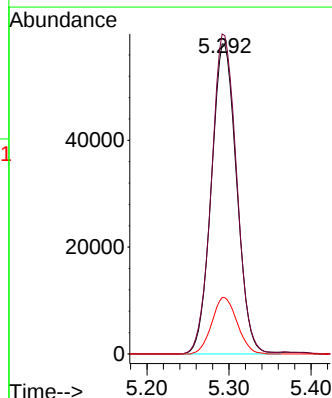
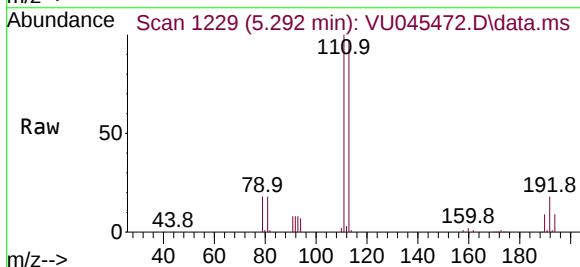
Tgt Ion:113 Resp: 124496

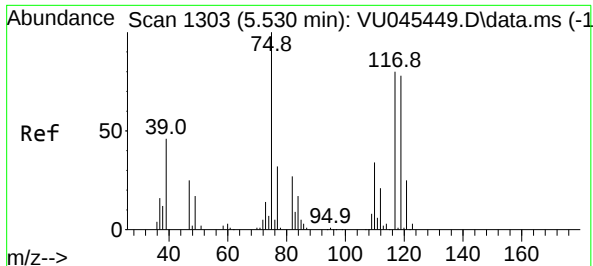
Ion Ratio Lower Upper

113 100

111 102.8 82.8 124.2

192 18.2 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.909 ug/l

RT: 5.375 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD

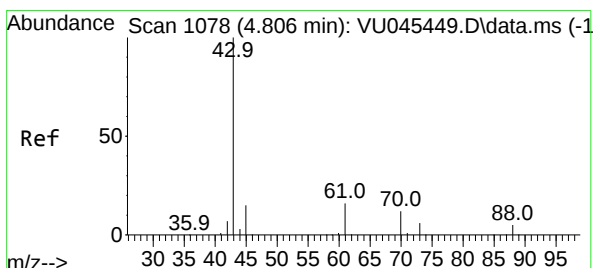
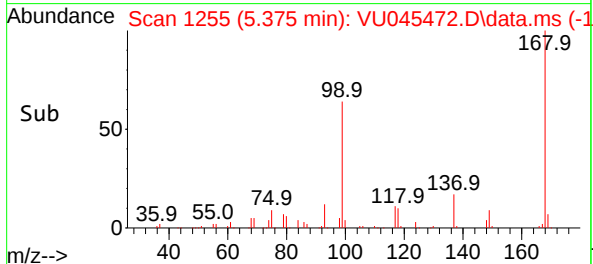
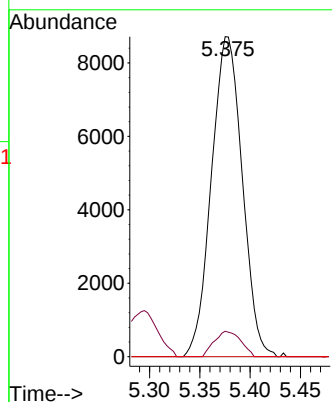
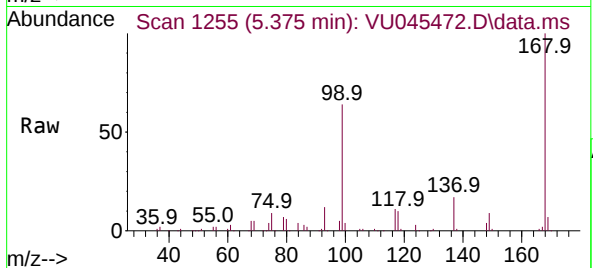
Tgt Ion: 75 Resp: 18557

Ion Ratio Lower Upper

75 100

110 6.8 16.7 50.0#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 2.730 ug/l

RT: 4.713 min Scan# 1049

Delta R.T. -0.093 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

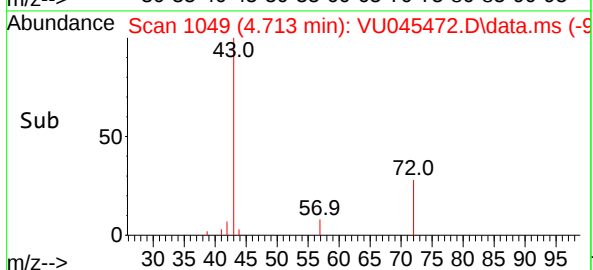
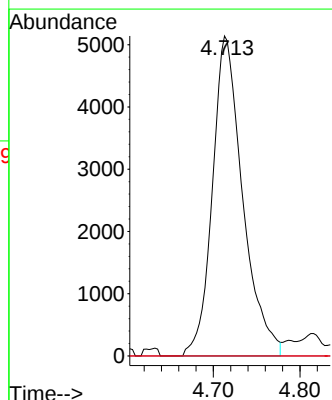
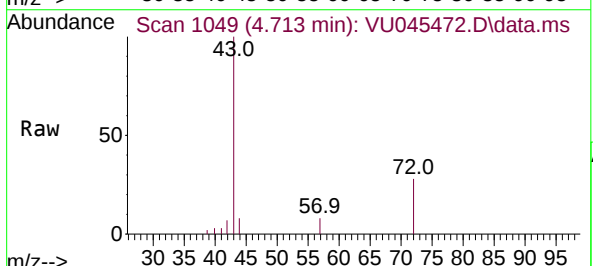
Tgt Ion: 43 Resp: 12499

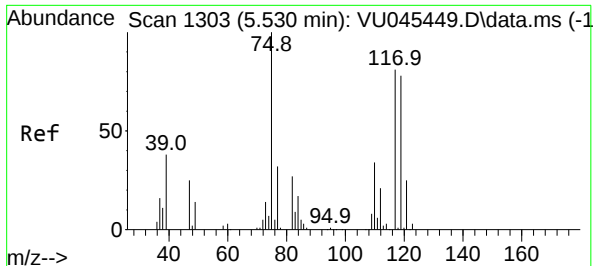
Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

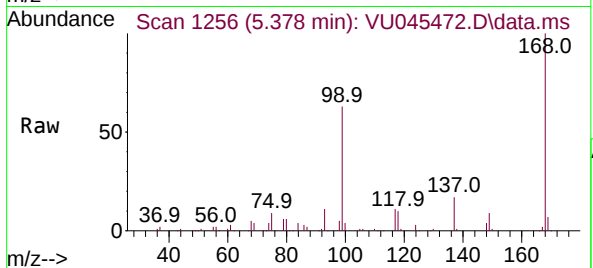
70 0.0 9.1 13.7#



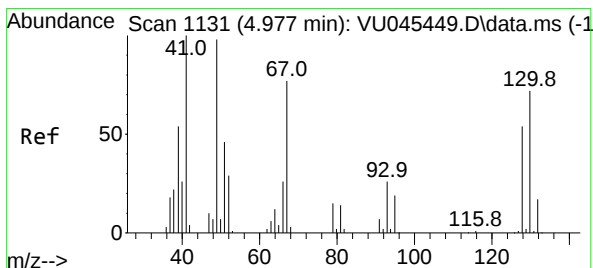
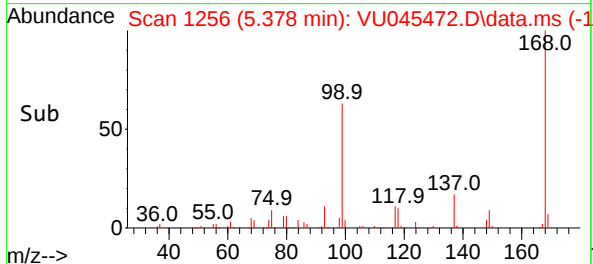
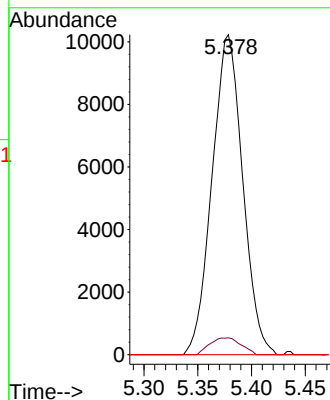


#38
Carbon Tetrachloride
Concen: 6.145 ug/l
RT: 5.378 min Scan# 1158
Delta R.T. -0.151 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

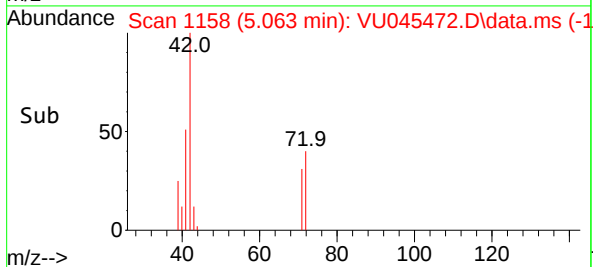
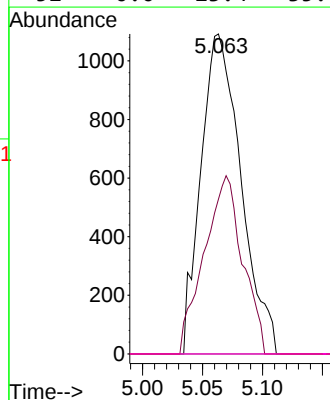
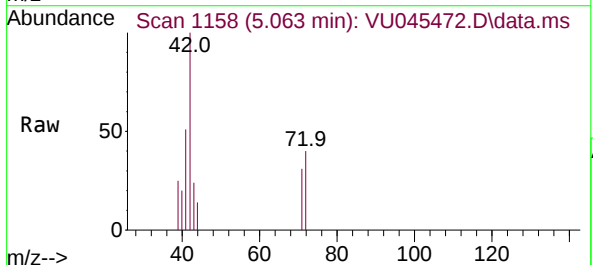


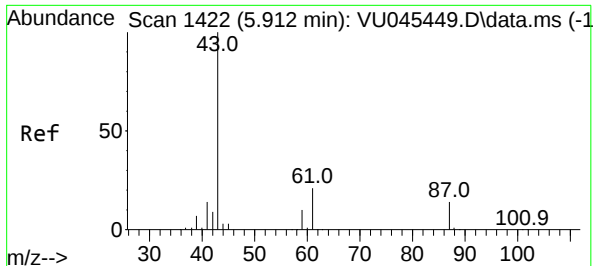
Tgt Ion:117 Resp: 20260
Ion Ratio Lower Upper
117 100
119 5.3 77.4 116.0#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 1.048 ug/l
RT: 5.063 min Scan# 1158
Delta R.T. 0.087 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion: 41 Resp: 2539
Ion Ratio Lower Upper
41 100
39 53.2 43.4 65.0
67 0.0 61.0 91.4#
52 0.0 23.4 35.0#





#43

Isopropyl Acetate

Concen: 4.346 ug/l

RT: 5.915 min Scan# 1422

Delta R.T. 0.003 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD

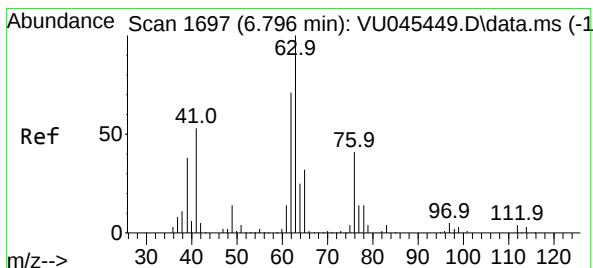
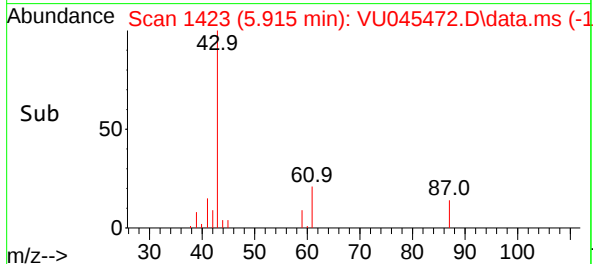
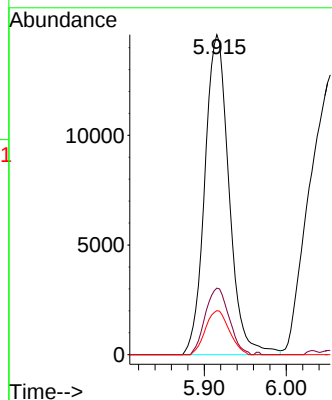
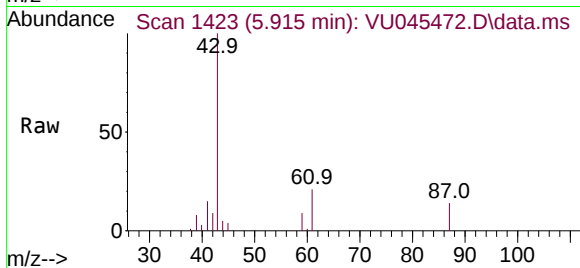
Tgt Ion: 43 Resp: 29988

Ion Ratio Lower Upper

43 100

61 20.4 16.9 25.3

87 13.5 11.0 16.4



#45

1,2-Dichloropropane

Concen: 0.810 ug/l

RT: 7.041 min Scan# 1773

Delta R.T. 0.244 min

Lab File: VU045472.D

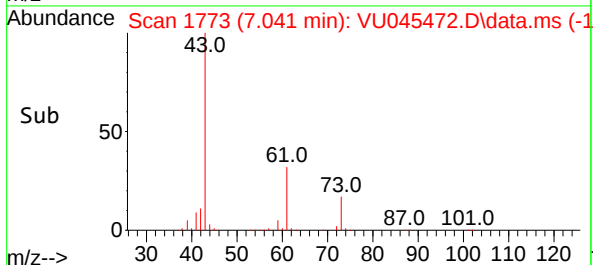
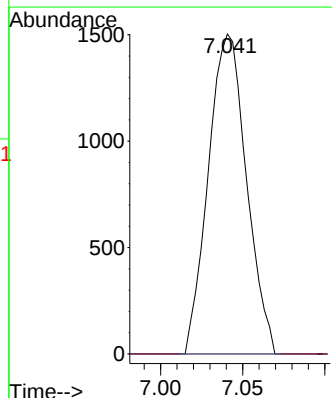
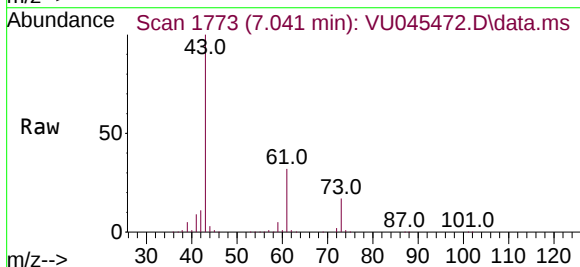
Acq: 29 Oct 2021 18:26

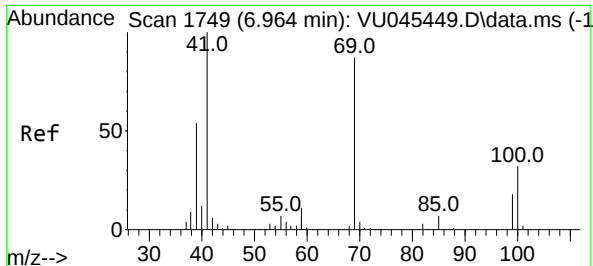
Tgt Ion: 63 Resp: 2426

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#





#48

Methyl methacrylate

Concen: 2.961 ug/l

RT: 6.896 min Scan# 1

Delta R.T. -0.068 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD

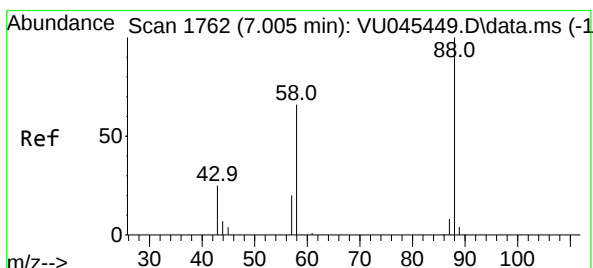
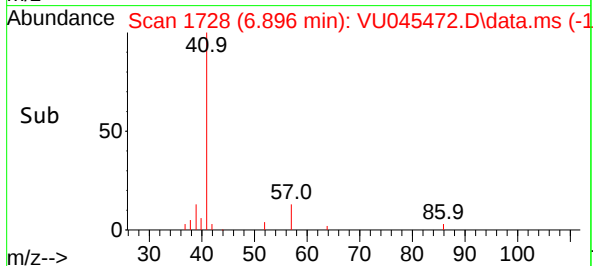
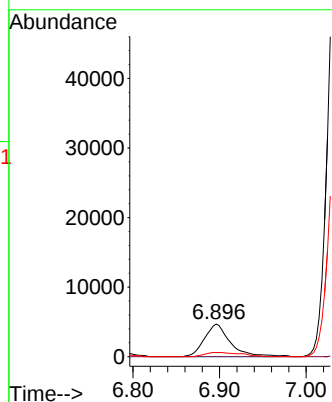
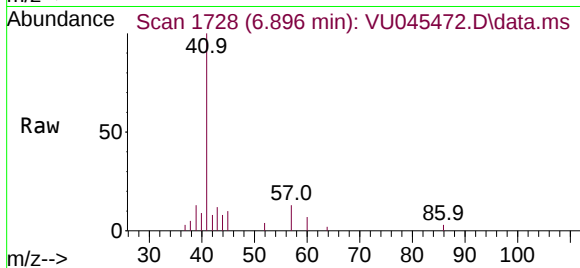
Tgt Ion: 41 Resp: 9682

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: 4.139 ug/l

RT: 7.041 min Scan# 1773

Delta R.T. 0.035 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

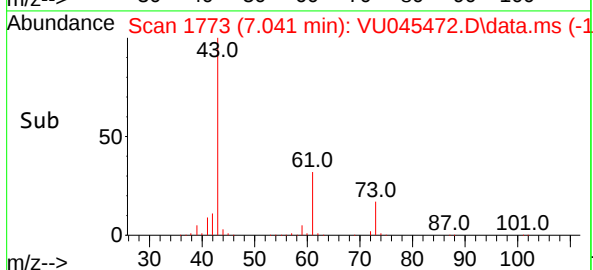
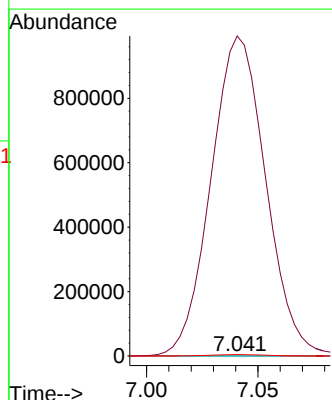
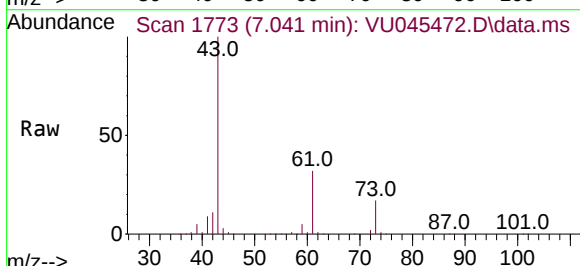
Tgt Ion: 88 Resp: 344

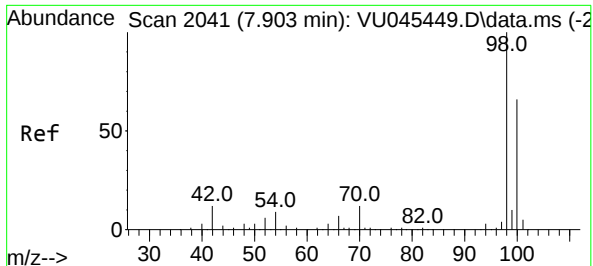
Ion Ratio Lower Upper

88 100

43 499368.3 0.0 0.0#

58 2193.9 58.7 88.1#

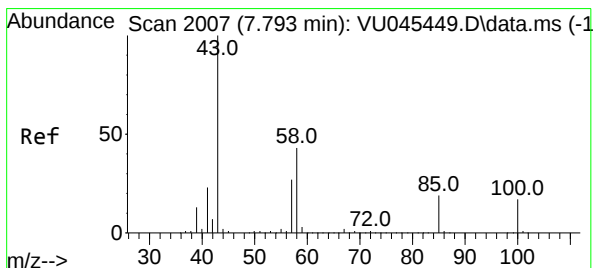
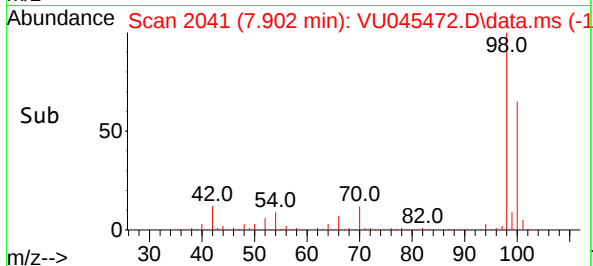
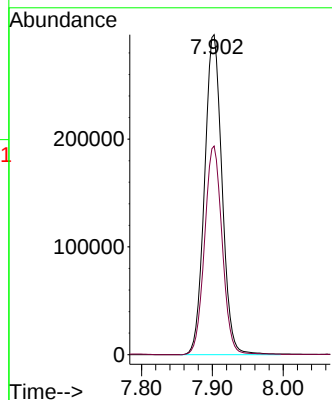
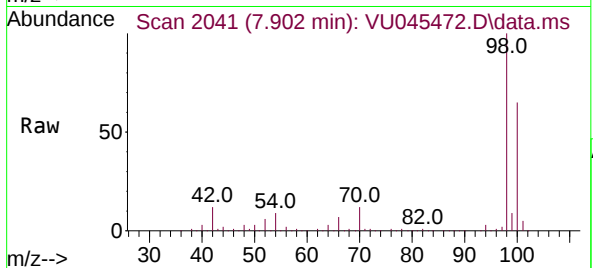




#50
Toluene-d8
Concen: 51.312 ug/l
RT: 7.902 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

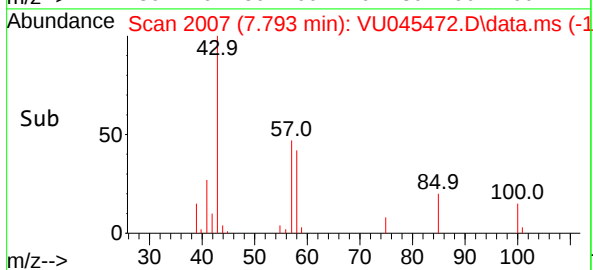
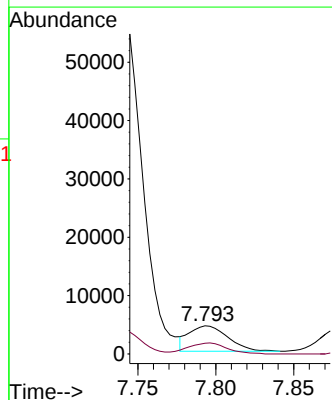
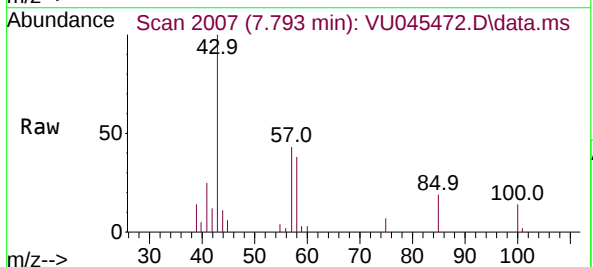
Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

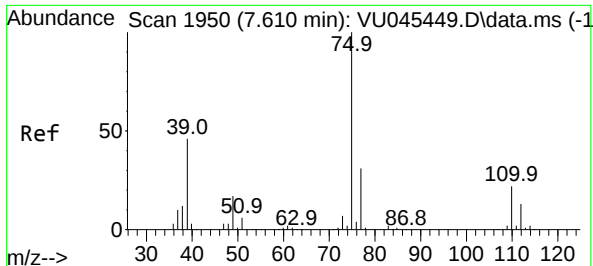
Tgt Ion: 98 Resp: 508098
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.702 ug/l
RT: 7.793 min Scan# 2007
Delta R.T. -0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion: 43 Resp: 7592
Ion Ratio Lower Upper
43 100
58 43.1 33.8 50.8





#54

cis-1,3-Dichloropropene

Concen: 10.951 ug/l

RT: 7.742 min Scan# 1950

Delta R.T. 0.132 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD

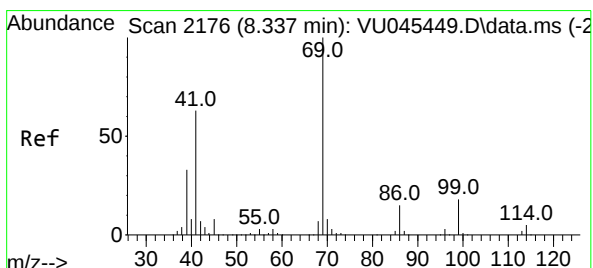
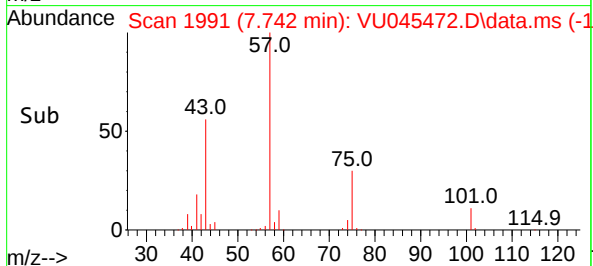
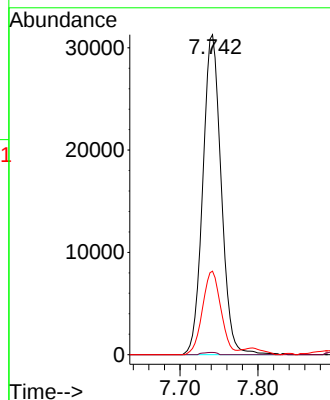
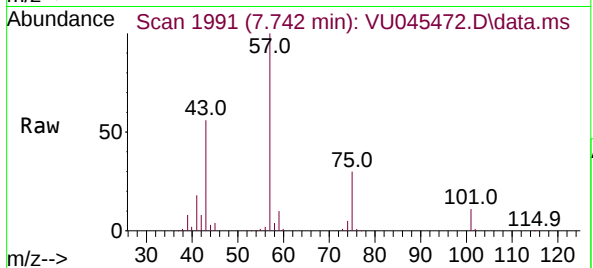
Tgt Ion: 75 Resp: 51301

Ion Ratio Lower Upper

75 100

77 0.7 24.6 37.0#

39 26.1 37.1 55.7#



#56

Ethyl methacrylate

Concen: 1.674 ug/l

RT: 8.468 min Scan# 2217

Delta R.T. 0.131 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

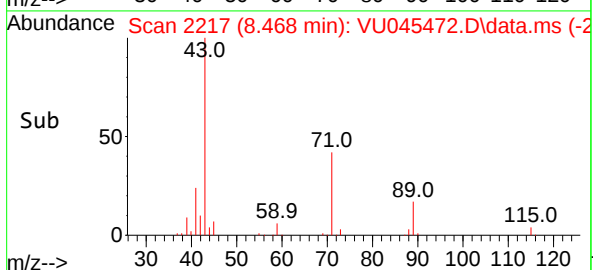
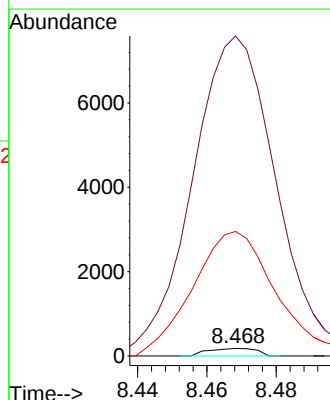
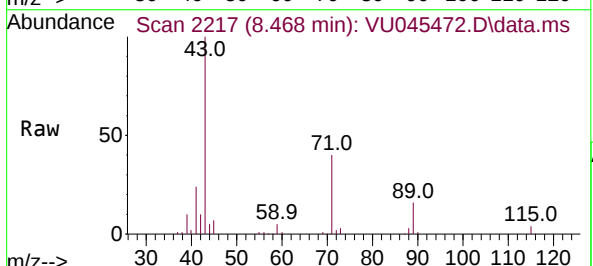
Tgt Ion: 69 Resp: 175

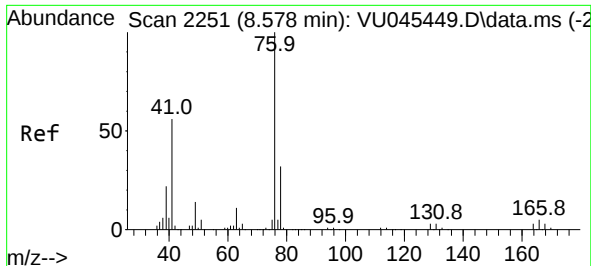
Ion Ratio Lower Upper

69 100

41 7398.9 51.0 76.4#

39 2861.7 26.6 39.8#





#57

1,3-Dichloropropane

Concen: 6.112 ug/l

RT: 8.729 min Scan# 2298

Delta R.T. 0.151 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

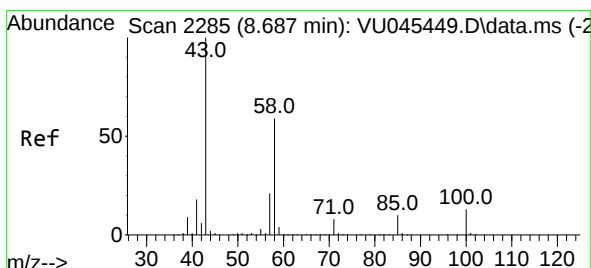
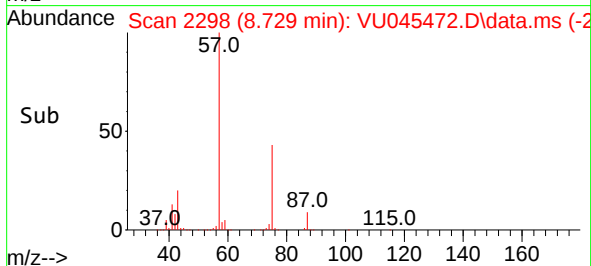
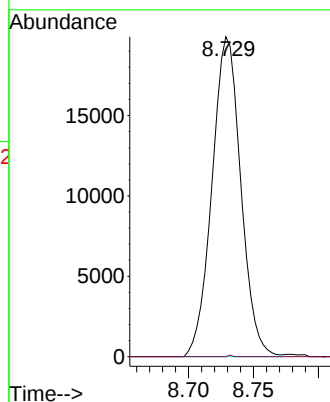
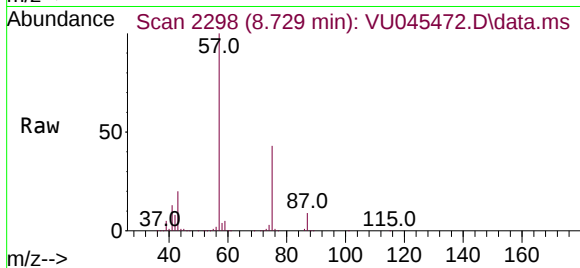
MH-GGD

Tgt Ion: 76 Resp: 30658

Ion Ratio Lower Upper

76 100

78 0.1 25.8 38.8#



#59

2-Hexanone

Concen: 120.393 ug/l

RT: 8.729 min Scan# 2298

Delta R.T. 0.042 min

Lab File: VU045472.D

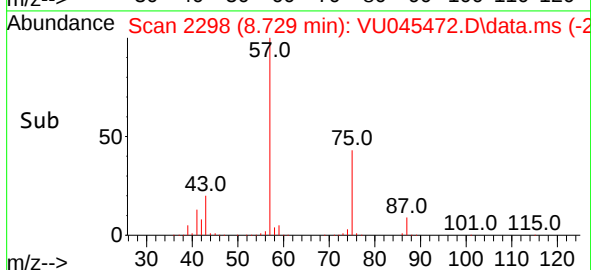
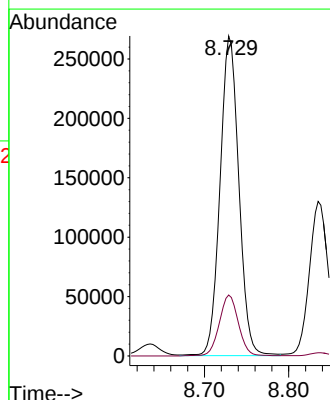
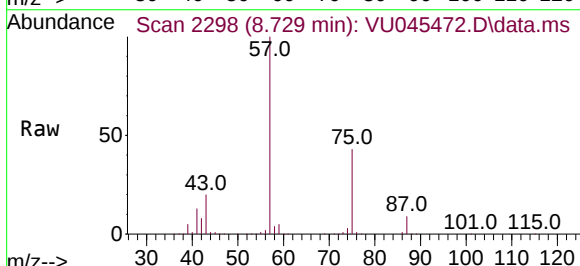
Acq: 29 Oct 2021 18:26

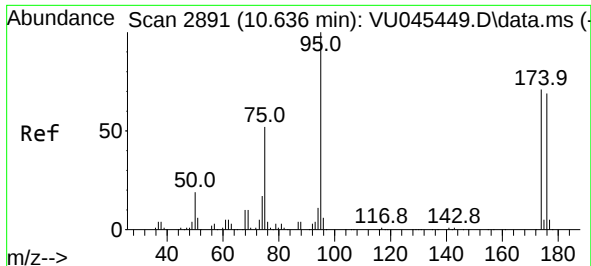
Tgt Ion: 43 Resp: 415985

Ion Ratio Lower Upper

43 100

58 19.5 29.5 88.6#

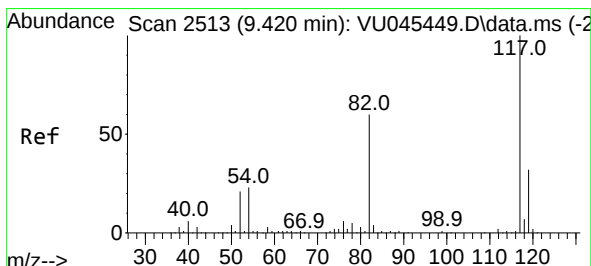
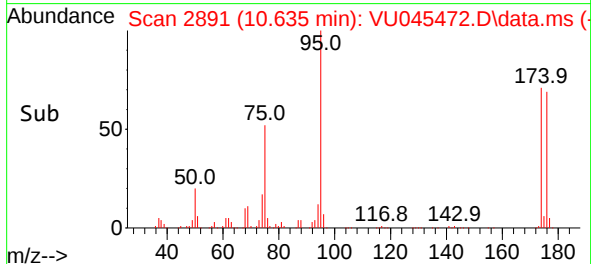
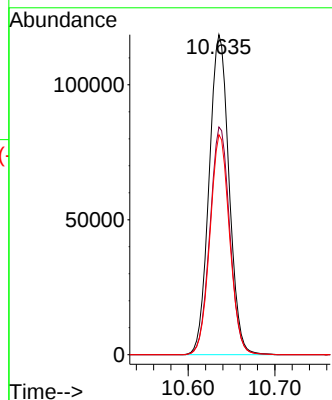
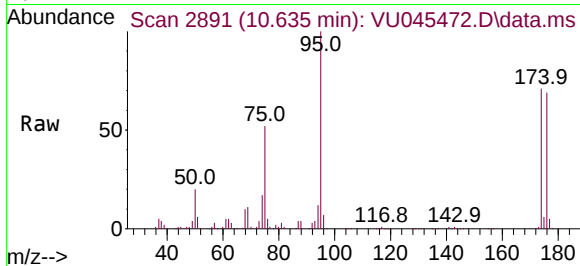




#62
4-Bromofluorobenzene
Concen: 50.333 ug/l
RT: 10.635 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

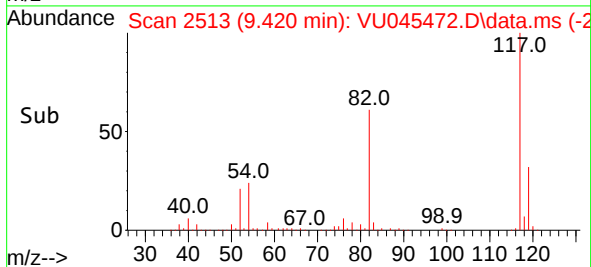
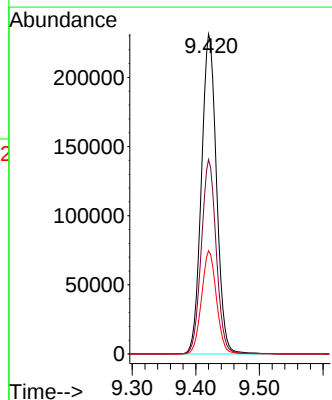
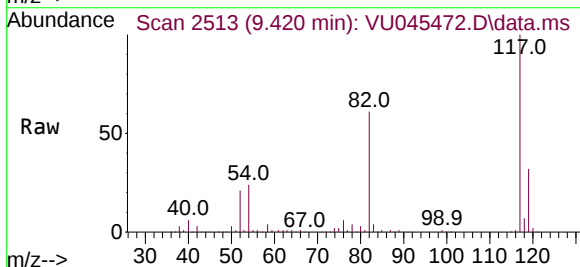
Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

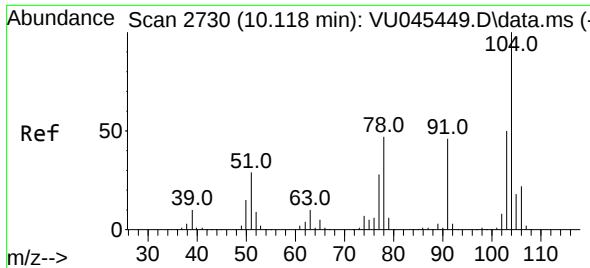
Tgt Ion: 95 Resp: 189923
Ion Ratio Lower Upper
95 100
174 70.9 0.0 141.8
176 67.7 0.0 138.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion: 117 Resp: 381539
Ion Ratio Lower Upper
117 100
82 60.8 47.8 71.8
119 32.3 25.8 38.8

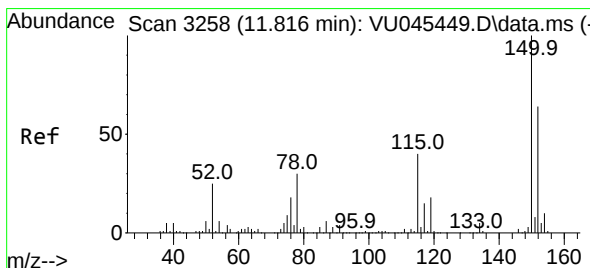
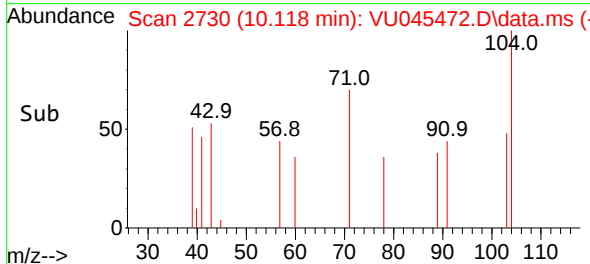
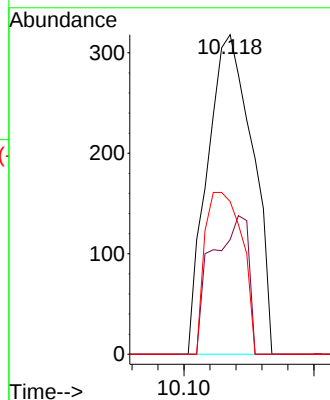
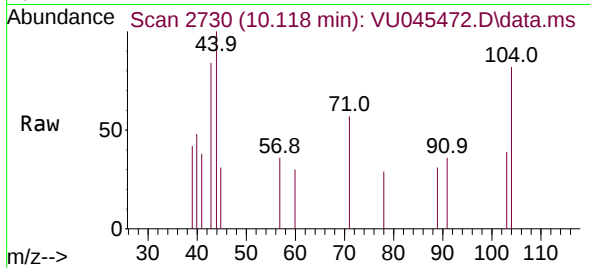




#70
Styrene
Concen: 1.018 ug/l
RT: 10.118 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

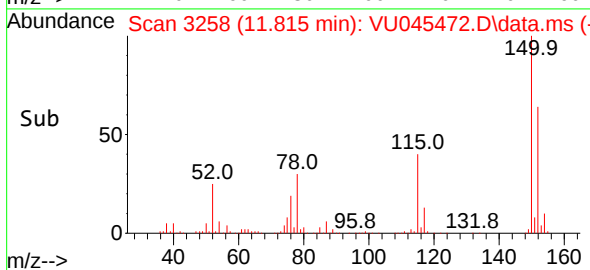
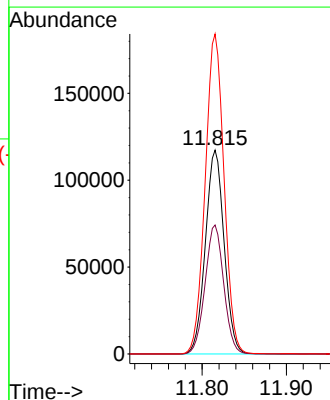
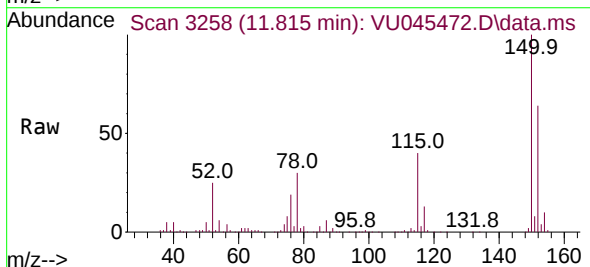
Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

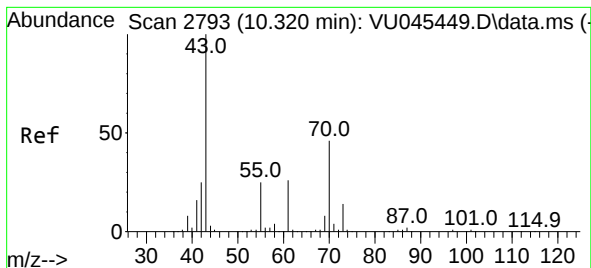
Tgt Ion:104 Resp: 384
Ion Ratio Lower Upper
104 100
78 34.9 41.8 62.6#
103 41.4 43.8 65.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.815 min Scan# 3258
Delta R.T. -0.000 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion:152 Resp: 181720
Ion Ratio Lower Upper
152 100
115 62.9 42.7 128.1
150 157.7 0.0 346.8





#74

N-amy1 acetate

Concen: 1.269 ug/l

RT: 10.237 min Scan# 21

Delta R.T. -0.083 min

Lab File: VU045472.D

Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD

Tgt Ion: 43 Resp: 743

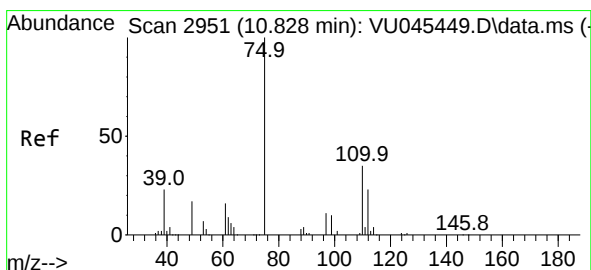
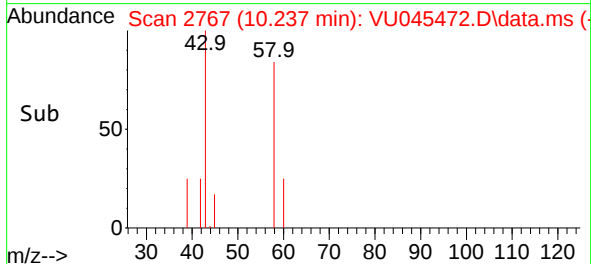
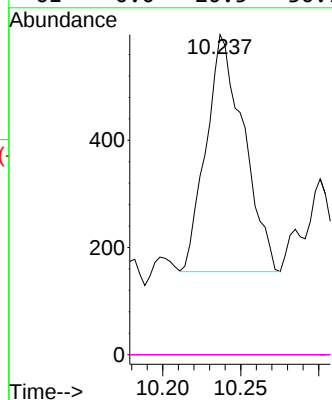
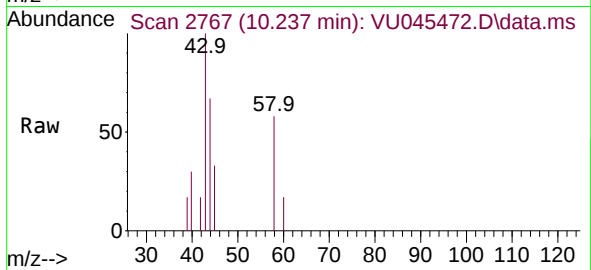
Ion Ratio Lower Upper

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: 20.215 ug/l

RT: 10.635 min Scan# 2891

Delta R.T. -0.193 min

Lab File: VU045472.D

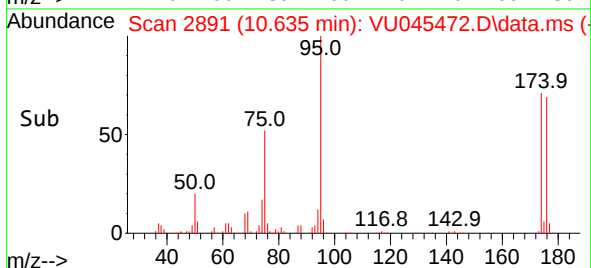
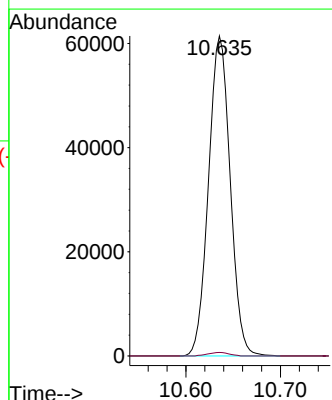
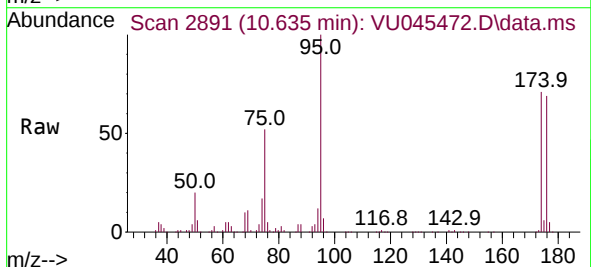
Acq: 29 Oct 2021 18:26

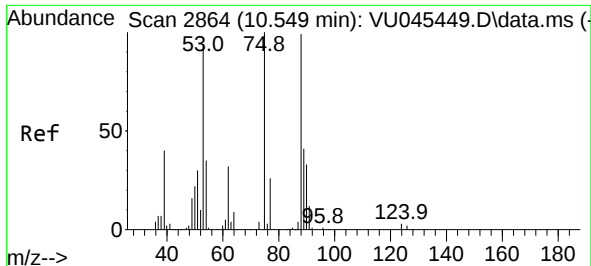
Tgt Ion: 75 Resp: 97876

Ion Ratio Lower Upper

75 100

77 1.1 17.1 51.3#

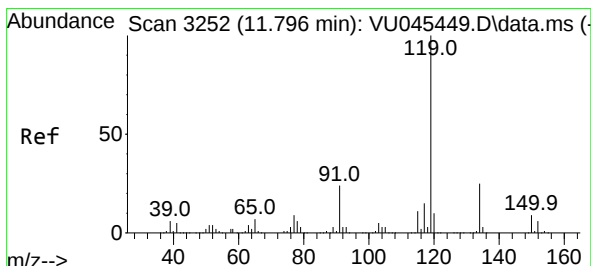
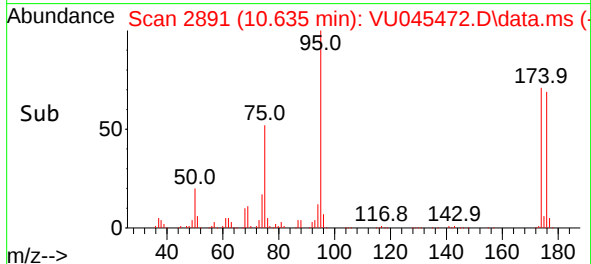
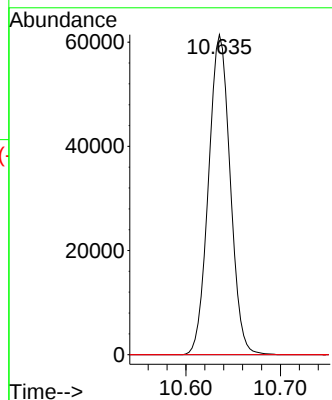
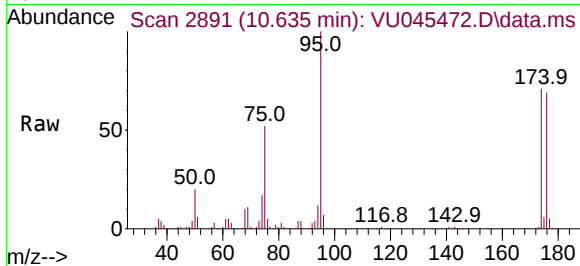




#81
trans-1,4-Dichloro-2-butene
Concen: 56.119 ug/l
RT: 10.635 min Scan# 21
Delta R.T. 0.086 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

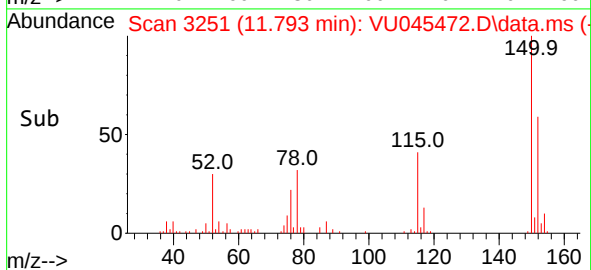
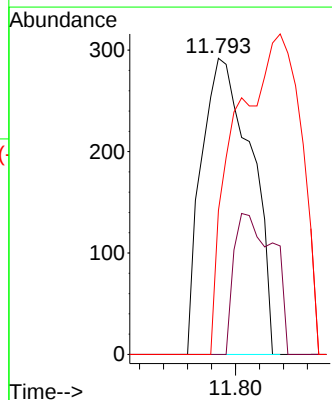
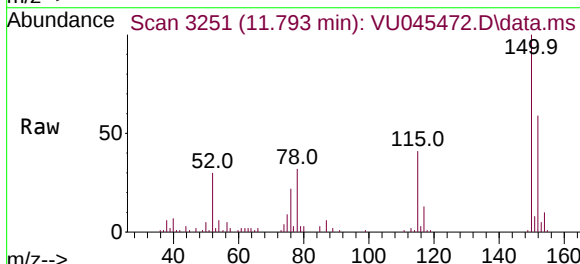
Instrument :
MSVOA_U
ClientSampleId :
MH-GGD

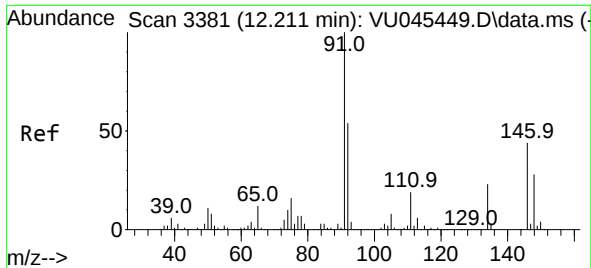
Tgt Ion: 75 Resp: 97876
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#



#86
p-Isopropyltoluene
Concen: 0.224 ug/l
RT: 11.793 min Scan# 3251
Delta R.T. -0.003 min
Lab File: VU045472.D
Acq: 29 Oct 2021 18:26

Tgt Ion: 119 Resp: 420
Ion Ratio Lower Upper
119 100
134 37.6 12.7 38.1
91 0.0 12.2 36.4#





#89

n-Butylbenzene

Concen: 0.992 ug/l

RT: 12.214 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU045472.D

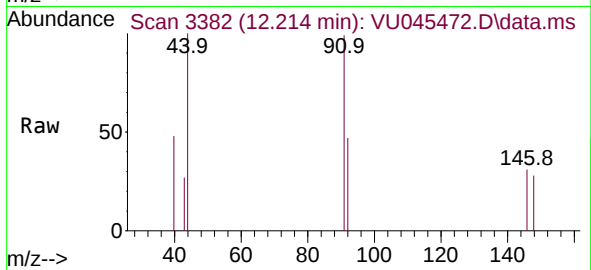
Acq: 29 Oct 2021 18:26

Instrument :

MSVOA_U

ClientSampleId :

MH-GGD



Tgt Ion: 91	Resp: 624
Ion Ratio	Lower Upper
91 100	
92 41.0	27.1 81.2
134 6.6	11.8 35.4#

