

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU112221\
 Data File : VU045945.D
 Acq On : 23 Nov 2021 04:00
 Operator : SY/MD
 Sample : M4795-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 23 06:52:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U110521W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 05 13:35:16 2021
 Response via : Initial Calibration

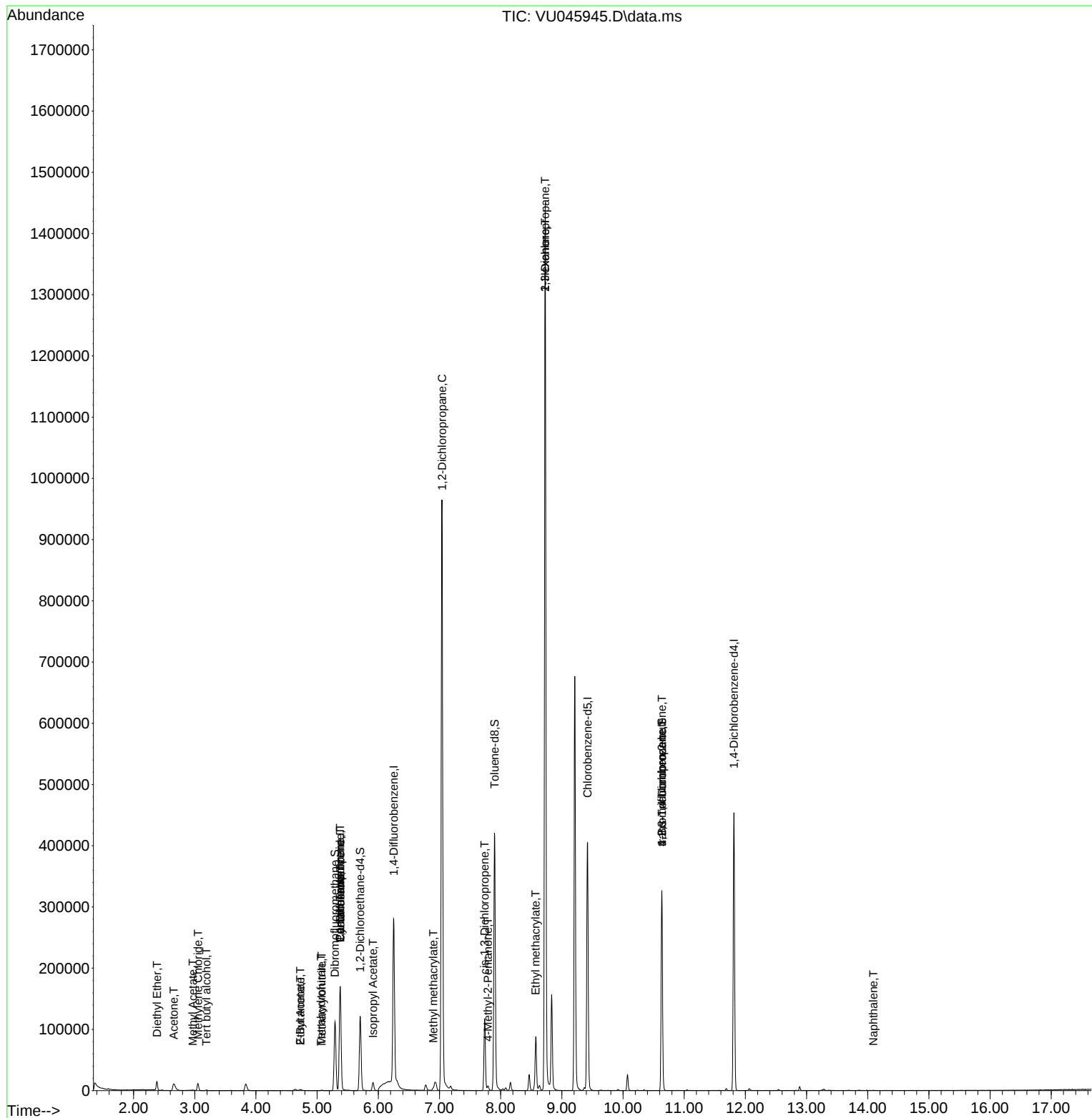
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.378	168	116175	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	216585	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	227072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.812	152	116431	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.703	65	89594	51.495	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 103.000%	
35) Dibromofluoromethane	5.292	113	72232	49.952	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.900%	
50) Toluene-d8	7.899	98	283876	52.794	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 105.580%	
62) 4-Bromofluorobenzene	10.635	95	110790	51.383	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.760%	
Target Compounds						Qvalue
8) Diethyl Ether	2.382	74	5454	6.206	ug/l	97
11) Tert butyl alcohol	3.192	59	752	2.184	ug/l #	72
16) Acetone	2.655	43	23990	27.087	ug/l	99
18) Methyl Acetate	2.967	43	1624	0.538	ug/l #	52
20) Methylene Chloride	3.054	84	5220	3.392	ug/l	97
25) 2-Butanone	4.726	43	3593	2.925	ug/l #	87
29) Tetrahydrofuran	5.066	42	774	1.030	ug/l #	66
31) Cyclohexane	5.378	56	2344	0.923	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	9699	4.593	ug/l #	48
37) Ethyl Acetate	4.726	43	3593	1.481	ug/l #	67
38) Carbon Tetrachloride	5.375	117	12044	5.657	ug/l #	15
41) Methacrylonitrile	5.076	41	470	0.367	ug/l #	22
43) Isopropyl Acetate	5.915	43	14500	3.908	ug/l	99
45) 1,2-Dichloropropane	7.044	63	1329	0.803	ug/l #	43
48) Methyl methacrylate	6.899	41	5838	3.418	ug/l #	13
51) 4-Methyl-2-Pentanone	7.793	43	4655	1.902	ug/l #	86
54) cis-1,3-Dichloropropene	7.738	75	21717	8.179	ug/l #	60
56) Ethyl methacrylate	8.571	69	702	2.659	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	15325	5.363	ug/l #	42
59) 2-Hexanone	8.729	43	186850	92.621	ug/l #	48
76) 1,2,3-Trichloropropane	10.635	75	57393	16.255	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.635	75	57393	53.055	ug/l #	12
95) Naphthalene	14.092	128	489	1.080	ug/l #	69

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

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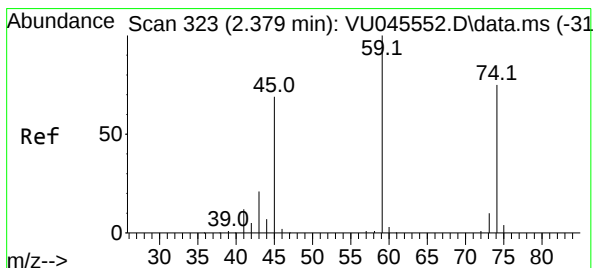
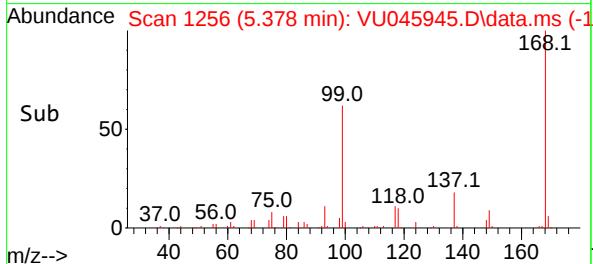
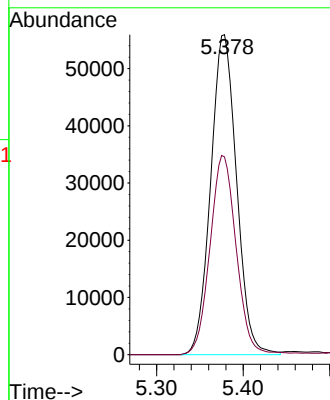
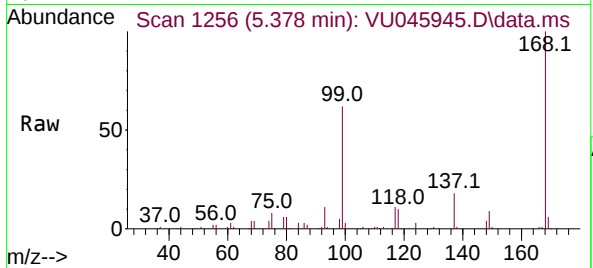




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.378 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

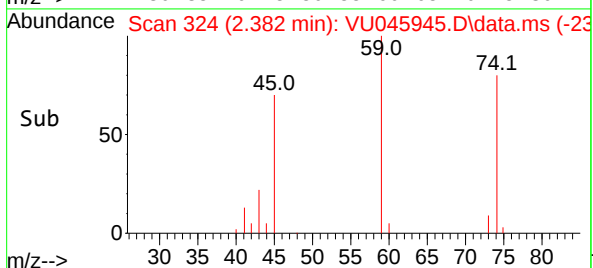
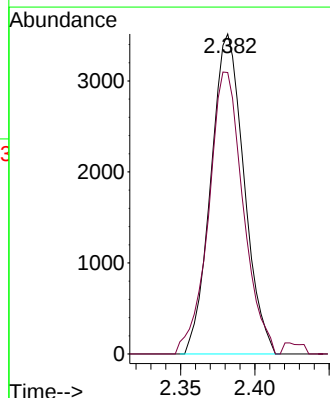
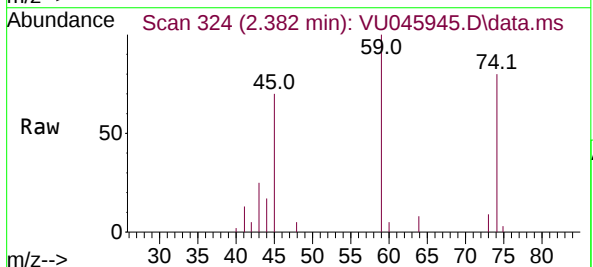
Instrument :
MSVOA_U
ClientSampleId :

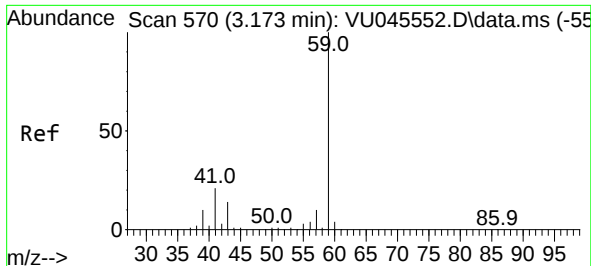
Tgt Ion:168 Resp: 116175
Ion Ratio Lower Upper
168 100
99 61.8 51.0 76.6



#8
Diethyl Ether
Concen: 6.206 ug/l
RT: 2.382 min Scan# 324
Delta R.T. 0.003 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

Tgt Ion: 74 Resp: 5454
Ion Ratio Lower Upper
74 100
45 91.6 47.3 141.8





#11

Tert butyl alcohol

Concen: 2.184 ug/l

RT: 3.192 min Scan# 51

Delta R.T. 0.019 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

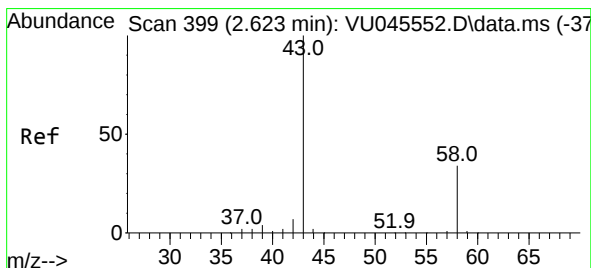
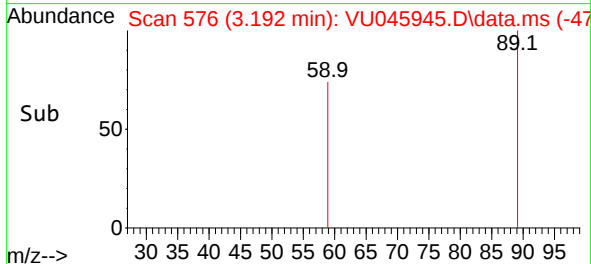
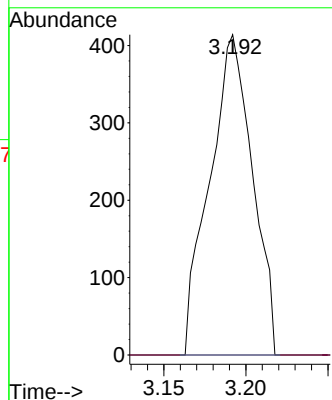
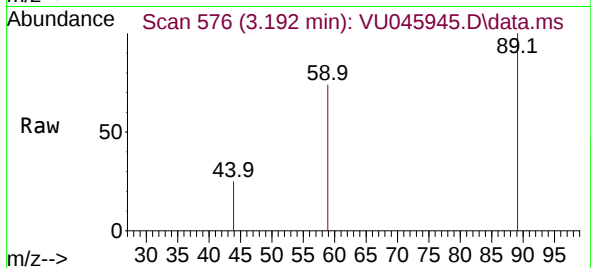
ClientSampleId :

Tgt Ion: 59 Resp: 752

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 27.087 ug/l

RT: 2.655 min Scan# 409

Delta R.T. 0.032 min

Lab File: VU045945.D

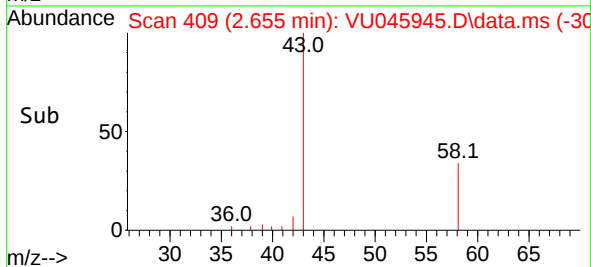
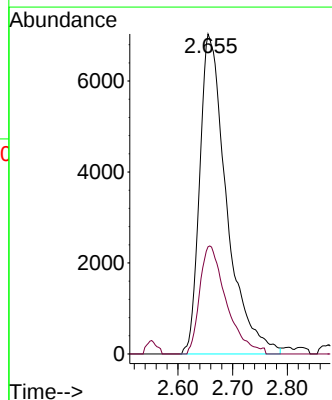
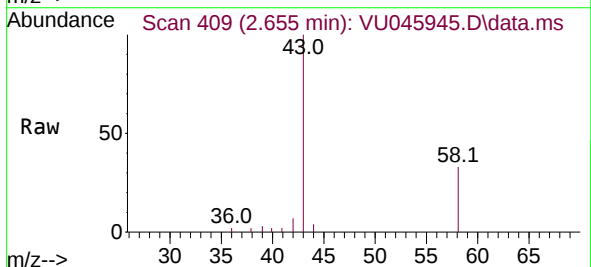
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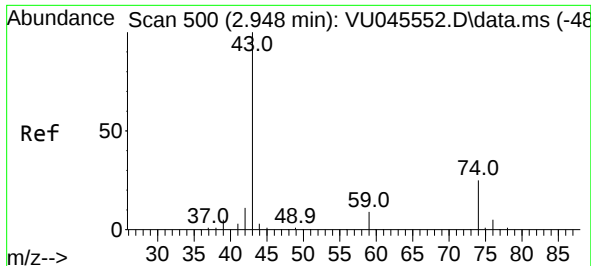
Tgt Ion: 43 Resp: 23990

Ion Ratio Lower Upper

43 100

58 33.5 26.2 39.2

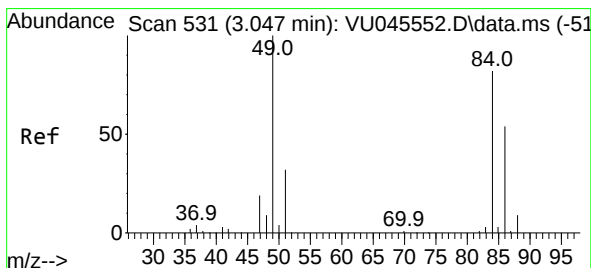
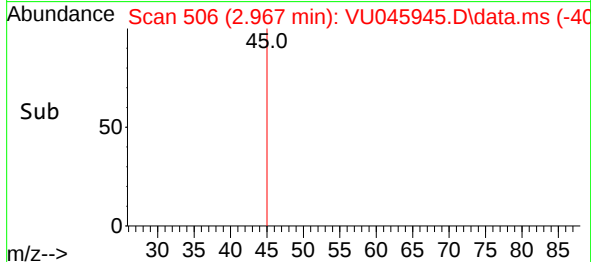
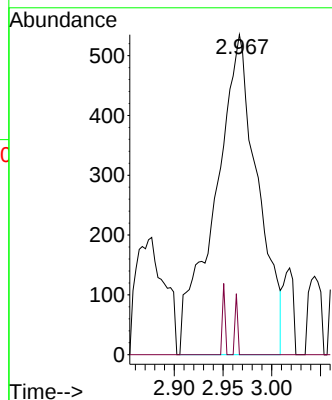
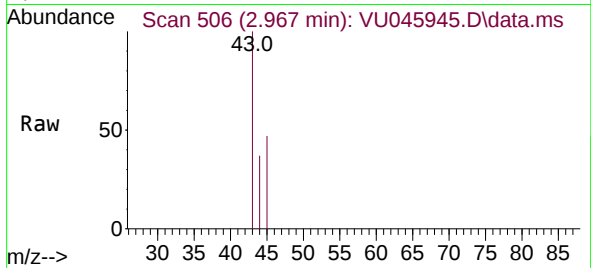




#18
Methyl Acetate
Concen: 0.538 ug/l
RT: 2.967 min Scan# 506
Delta R.T. 0.019 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

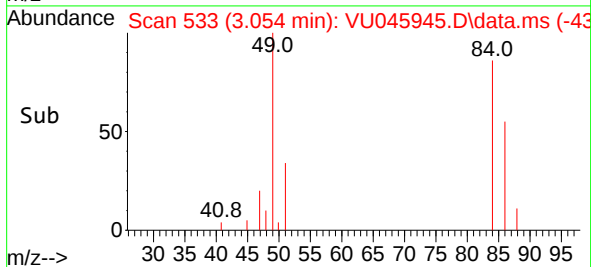
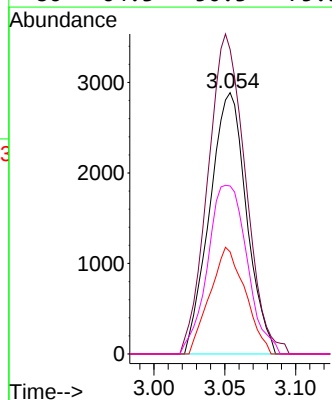
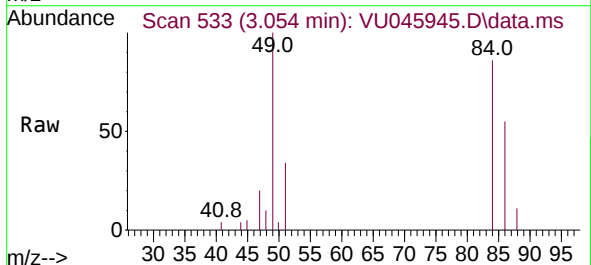
Instrument :
MSVOA_U
ClientSampleId :

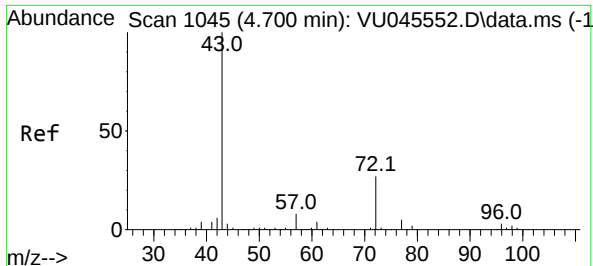
Tgt Ion: 43 Resp: 1624
Ion Ratio Lower Upper
43 100
74 1.2 20.2 30.2#



#20
Methylene Chloride
Concen: 3.392 ug/l
RT: 3.054 min Scan# 533
Delta R.T. 0.006 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

Tgt Ion: 84 Resp: 5220
Ion Ratio Lower Upper
84 100
49 116.5 96.4 144.6
51 39.1 30.5 45.7
86 64.3 50.3 75.5





#25

2-Butanone

Concen: 2.925 ug/l

RT: 4.726 min Scan# 1105

Delta R.T. 0.026 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

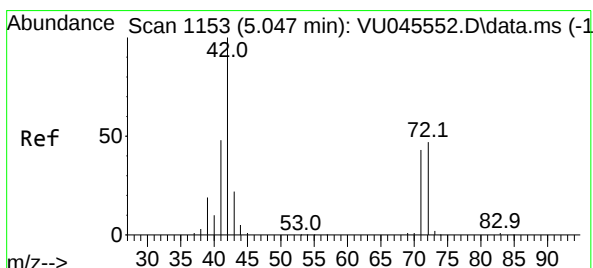
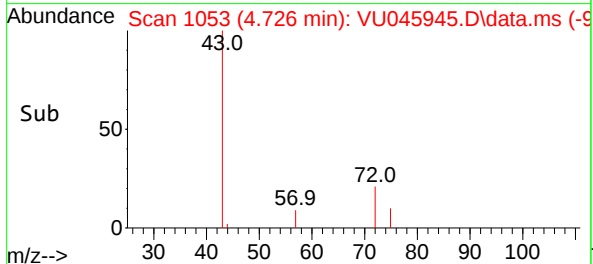
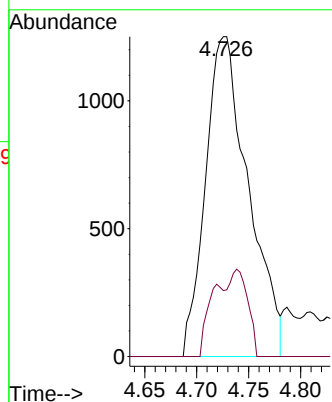
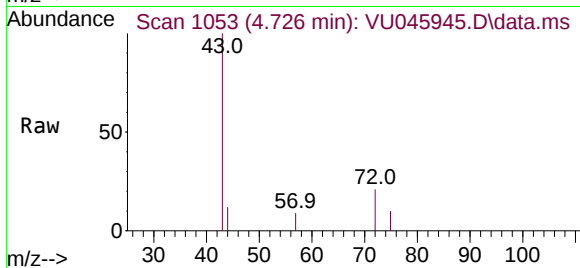
ClientSampleId :

Tgt Ion: 43 Resp: 3593

Ion Ratio Lower Upper

43 100

72 20.6 22.0 33.0#



#29

Tetrahydrofuran

Concen: 1.030 ug/l

RT: 5.066 min Scan# 1159

Delta R.T. 0.019 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

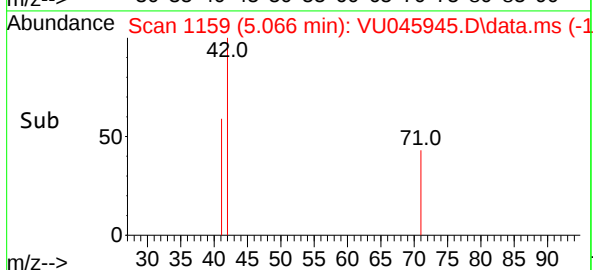
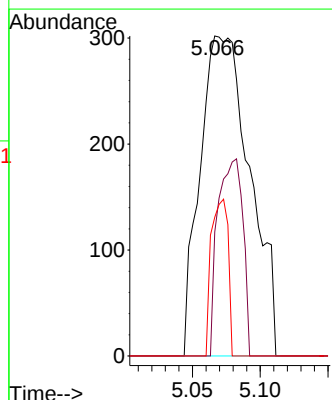
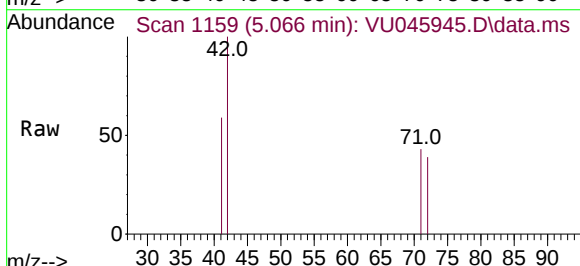
Tgt Ion: 42 Resp: 774

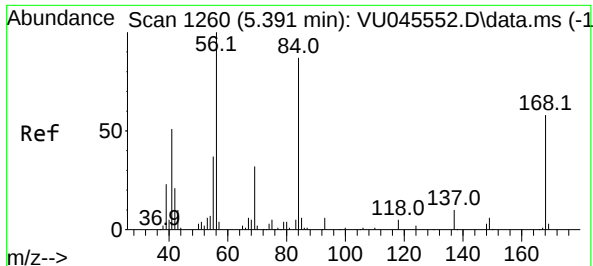
Ion Ratio Lower Upper

42 100

72 30.6 38.2 57.4#

71 16.4 35.4 53.2#





#31

Cyclohexane

Concen: 0.923 ug/l

RT: 5.378 min Scan# 1260

Delta R.T. -0.013 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

ClientSampleId :

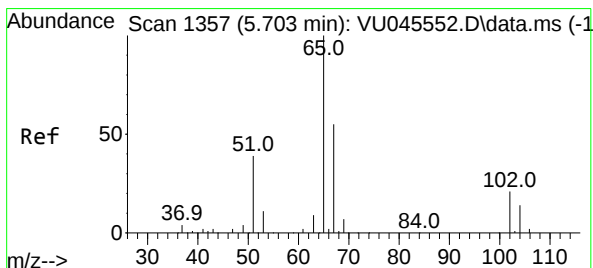
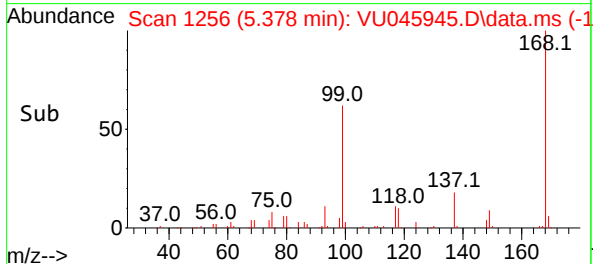
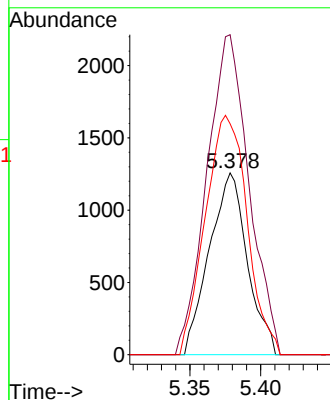
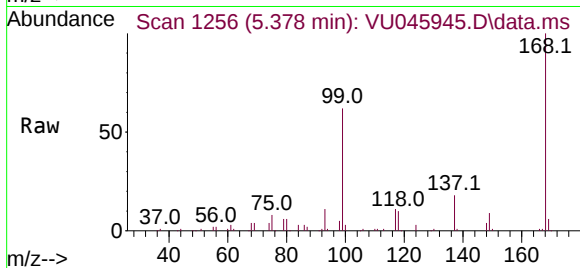
Tgt Ion: 56 Resp: 2344

Ion Ratio Lower Upper

56 100

69 176.0 26.4 39.6#

84 126.9 68.4 102.6#



#33

1,2-Dichloroethane-d4

Concen: 51.495 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. -0.000 min

Lab File: VU045945.D

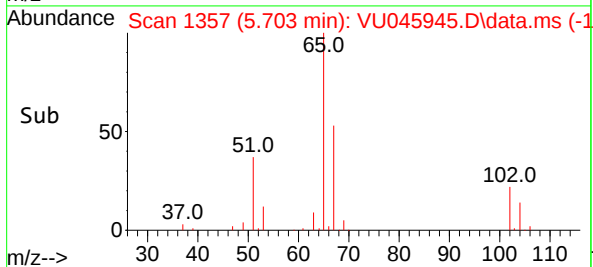
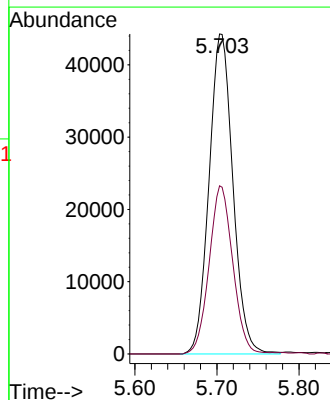
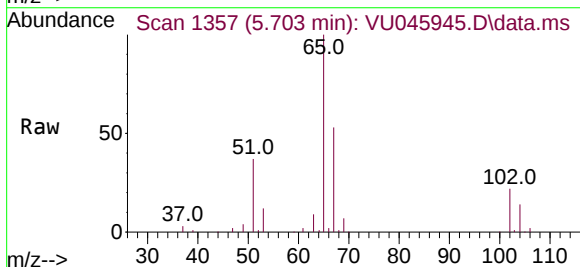
Acq: 23 Nov 2021 04:00

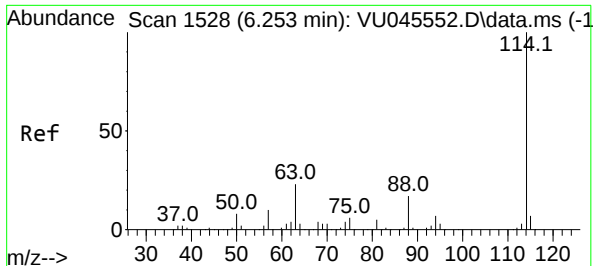
Tgt Ion: 65 Resp: 89594

Ion Ratio Lower Upper

65 100

67 52.1 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

ClientSampleId :

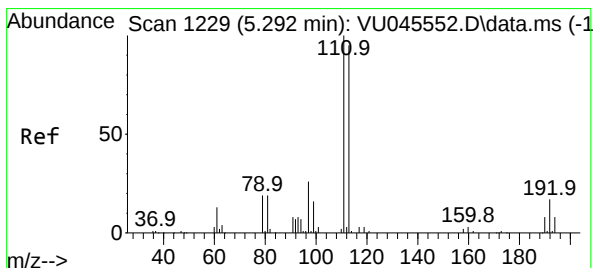
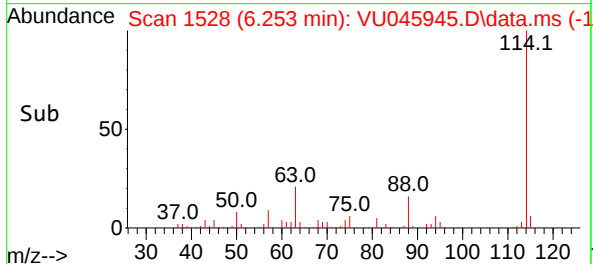
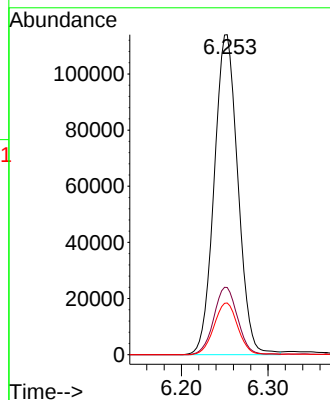
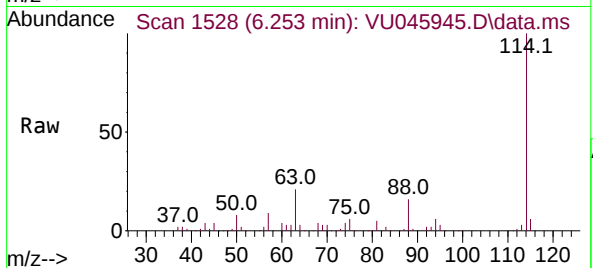
Tgt Ion:114 Resp: 216585

Ion Ratio Lower Upper

114 100

63 21.0 0.0 45.6

88 16.2 0.0 33.8



#35

Dibromofluoromethane

Concen: 49.952 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

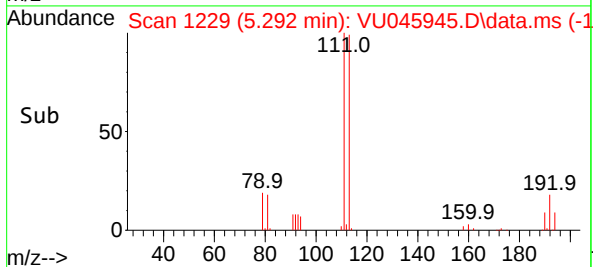
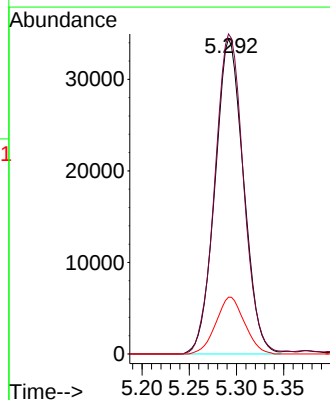
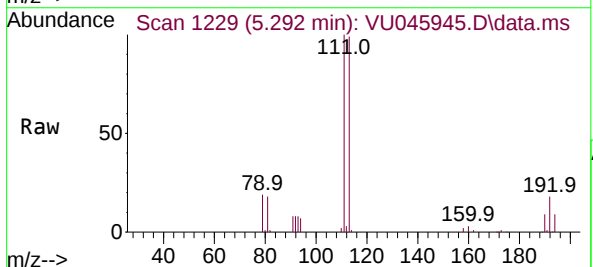
Tgt Ion:113 Resp: 72232

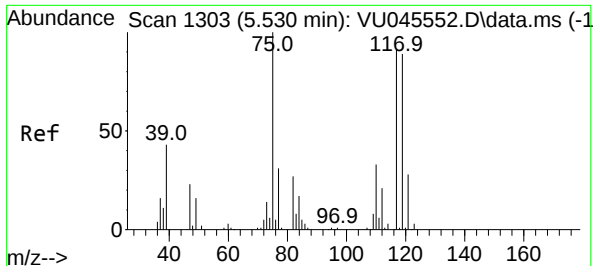
Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

192 18.1 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.593 ug/l

RT: 5.375 min Scan# 1

Delta R.T. -0.154 min

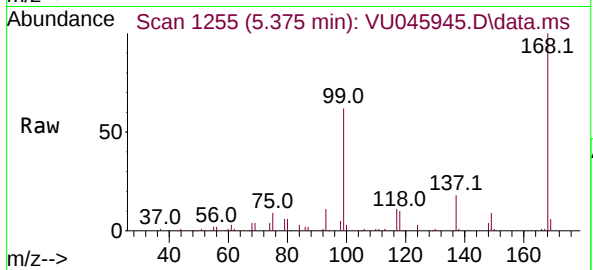
Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

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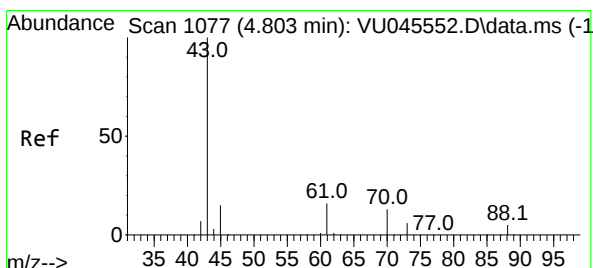
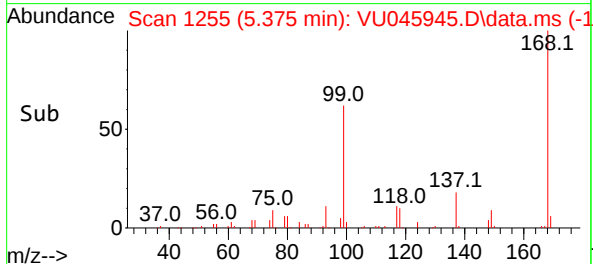
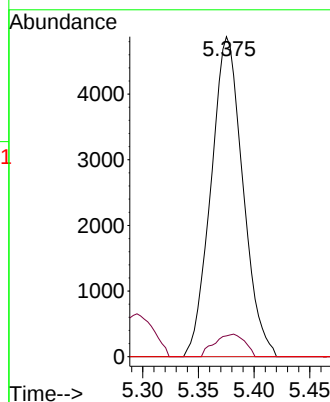
Tgt Ion: 75 Resp: 9699

Ion Ratio Lower Upper

75 100

110 6.7 16.7 50.0#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.481 ug/l

RT: 4.726 min Scan# 1053

Delta R.T. -0.077 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

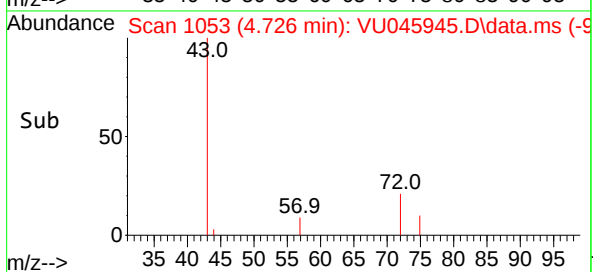
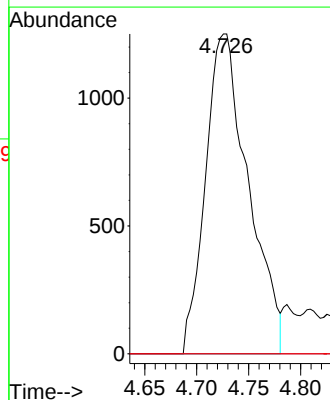
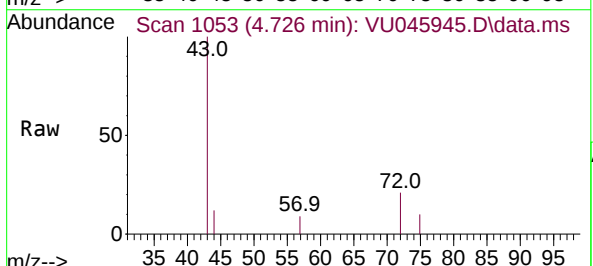
Tgt Ion: 43 Resp: 3593

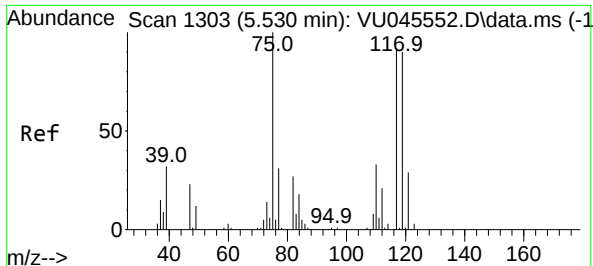
Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

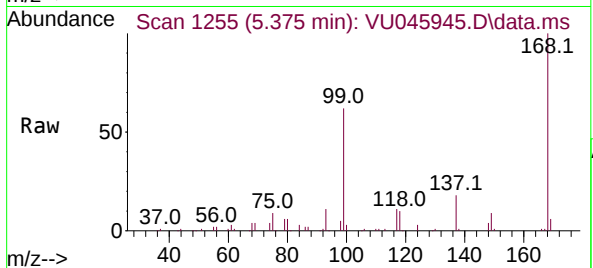
70 0.0 9.1 13.7#



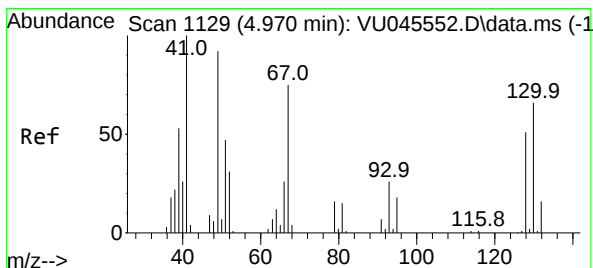
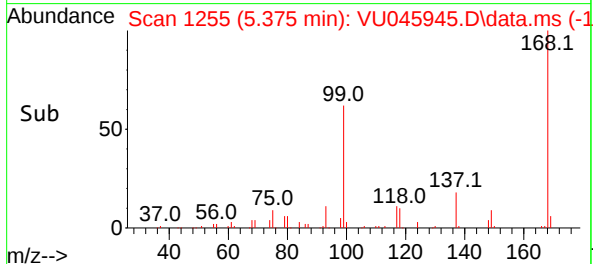
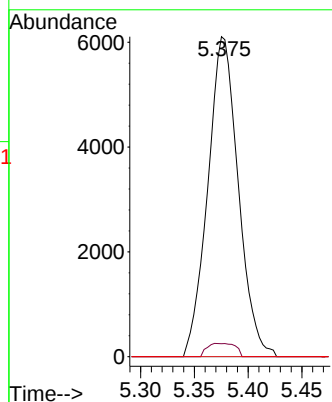


#38
Carbon Tetrachloride
Concen: 5.657 ug/l
RT: 5.375 min Scan# 1162
Delta R.T. -0.154 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

Instrument :
MSVOA_U
ClientSampleId :

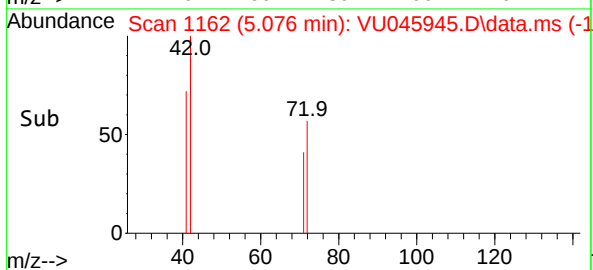
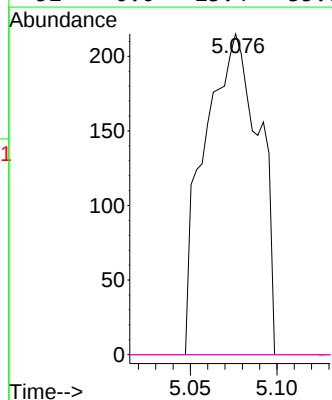
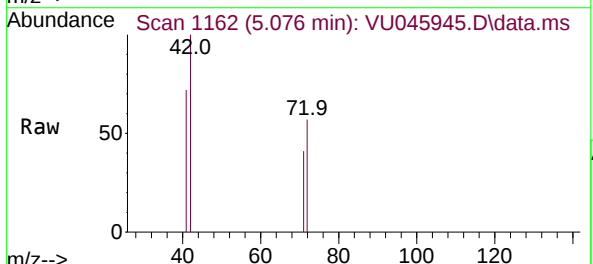


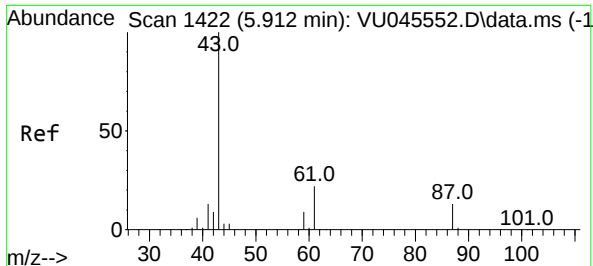
Tgt Ion:117 Resp: 12044
Ion Ratio Lower Upper
117 100
119 4.1 77.4 116.0#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.367 ug/l
RT: 5.076 min Scan# 1162
Delta R.T. 0.106 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

Tgt Ion: 41 Resp: 470
Ion Ratio Lower Upper
41 100
39 0.0 43.4 65.0#
67 0.0 61.0 91.4#
52 0.0 23.4 35.0#





#43

Isopropyl Acetate

Concen: 3.908 ug/l

RT: 5.915 min Scan# 1422

Delta R.T. 0.003 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

ClientSampleId :

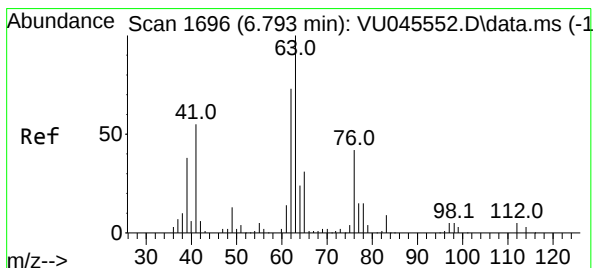
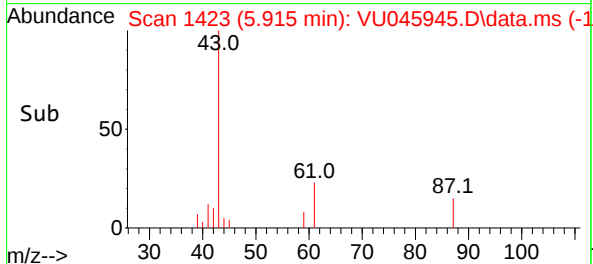
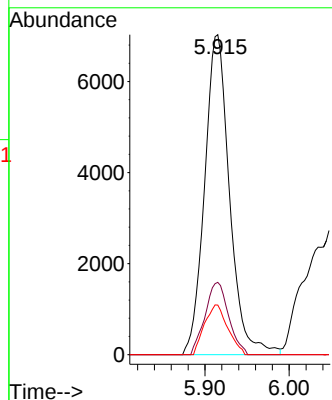
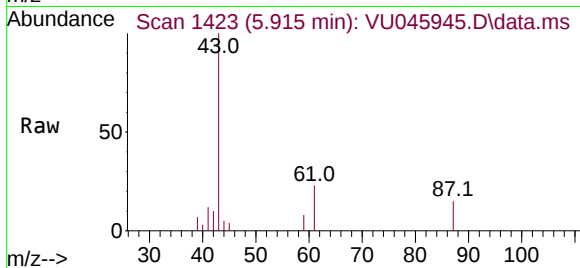
Tgt Ion: 43 Resp: 14500

Ion Ratio Lower Upper

43 100

61 21.2 16.9 25.3

87 14.4 11.0 16.4



#45

1,2-Dichloropropane

Concen: 0.803 ug/l

RT: 7.044 min Scan# 1774

Delta R.T. 0.251 min

Lab File: VU045945.D

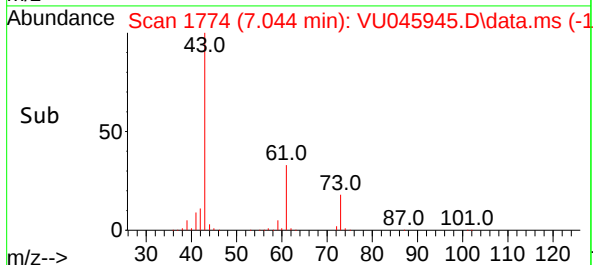
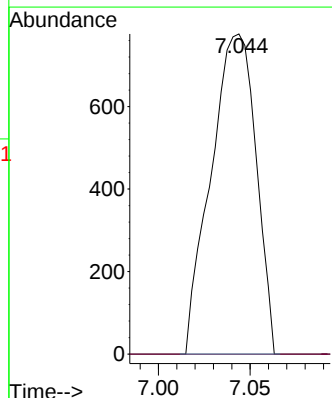
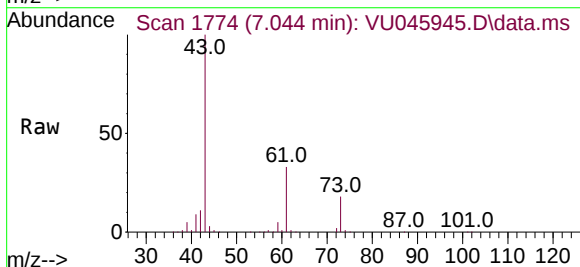
Acq: 23 Nov 2021 04:00

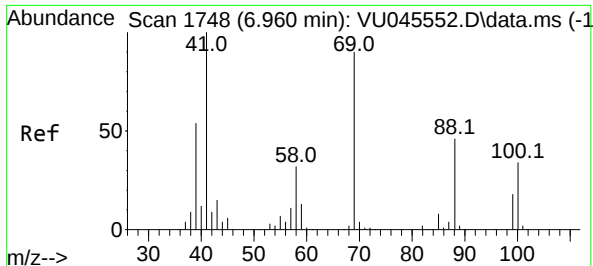
Tgt Ion: 63 Resp: 1329

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#





#48

Methyl methacrylate

Concen: 3.418 ug/l

RT: 6.899 min Scan# 1

Delta R.T. -0.061 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

ClientSampleId :

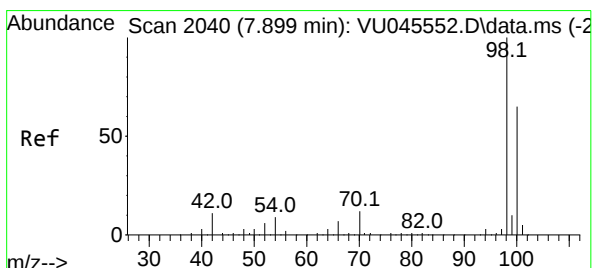
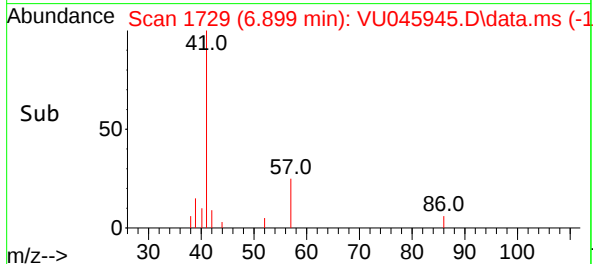
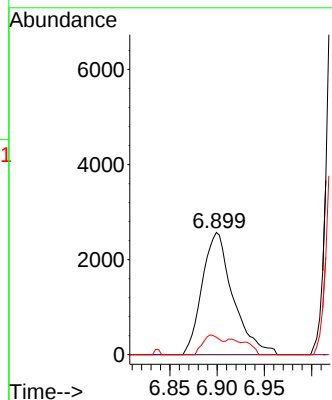
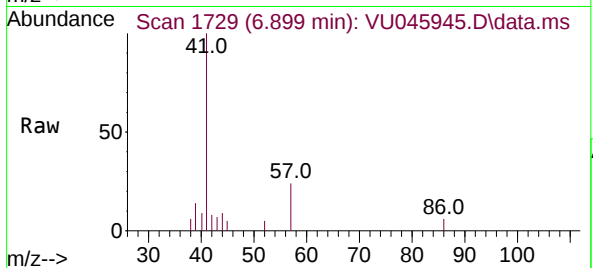
Tgt Ion: 41 Resp: 5838

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#



#50

Toluene-d8

Concen: 52.794 ug/l

RT: 7.899 min Scan# 2040

Delta R.T. -0.000 min

Lab File: VU045945.D

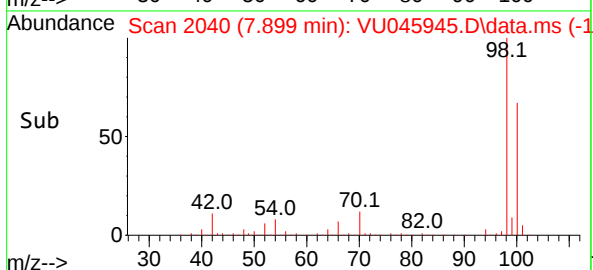
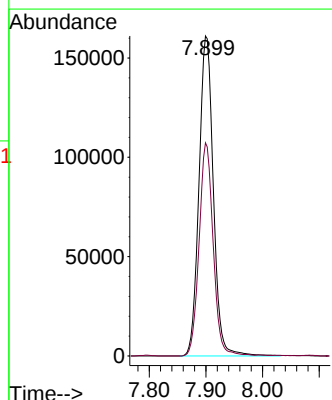
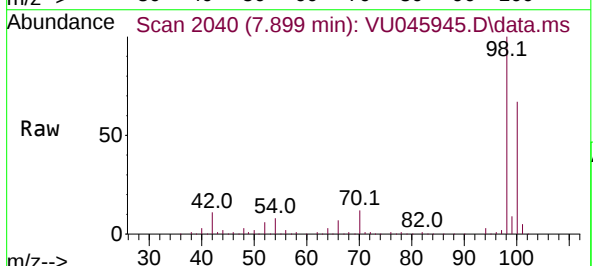
Acq: 23 Nov 2021 04:00

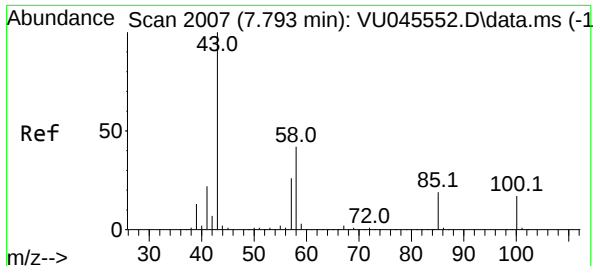
Tgt Ion: 98 Resp: 283876

Ion Ratio Lower Upper

98 100

100 65.2 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 1.902 ug/l

RT: 7.793 min Scan# 2007

Delta R.T. -0.000 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

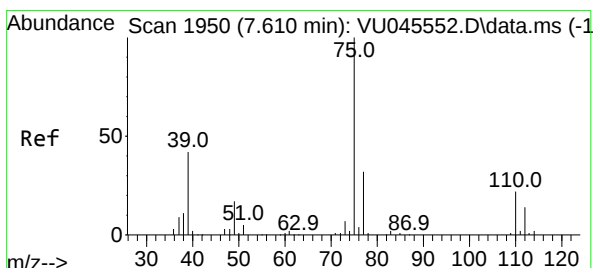
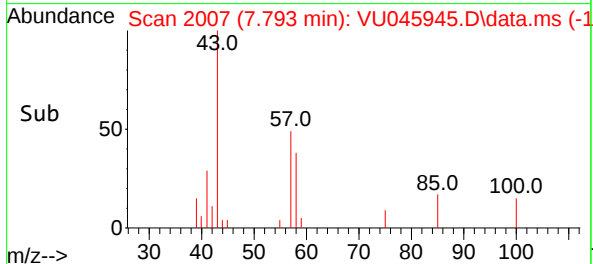
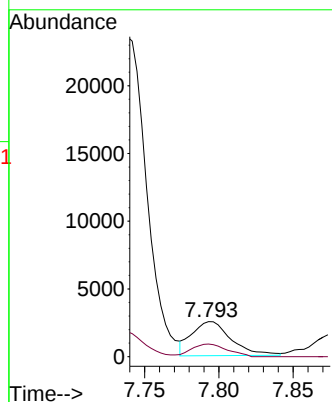
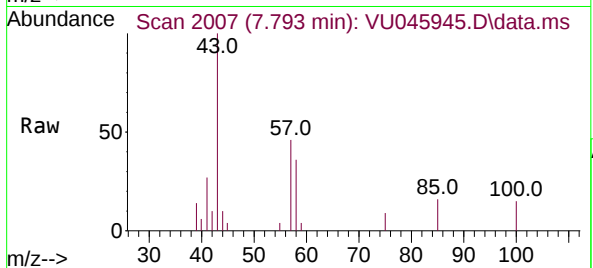
ClientSampleId :

Tgt Ion: 43 Resp: 4655

Ion Ratio Lower Upper

43 100

58 33.6 33.8 50.8#



#54

cis-1,3-Dichloropropene

Concen: 8.179 ug/l

RT: 7.738 min Scan# 1990

Delta R.T. 0.128 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

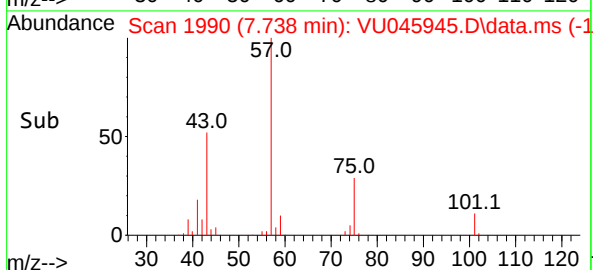
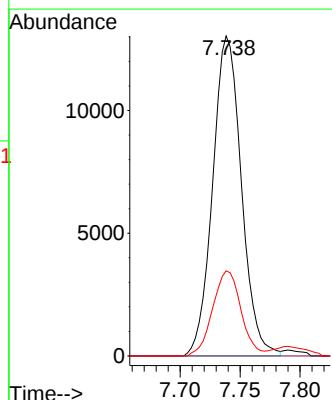
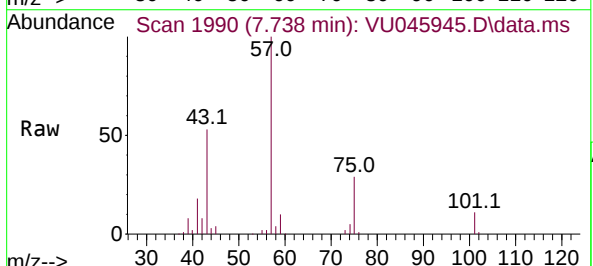
Tgt Ion: 75 Resp: 21717

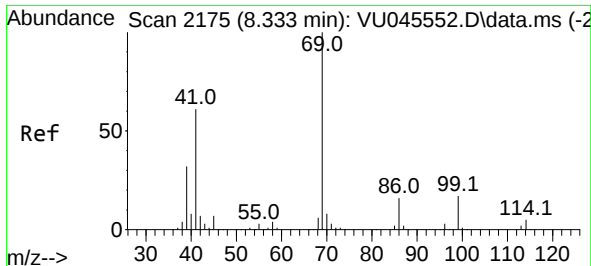
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 26.6 37.1 55.7#

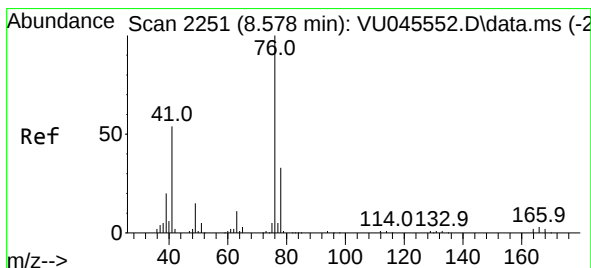
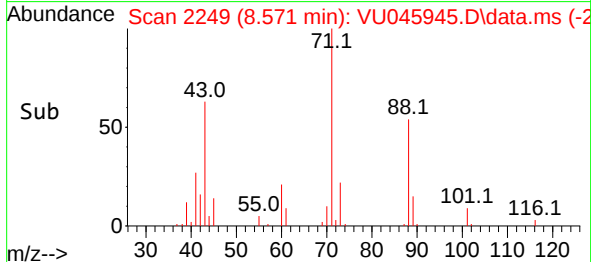
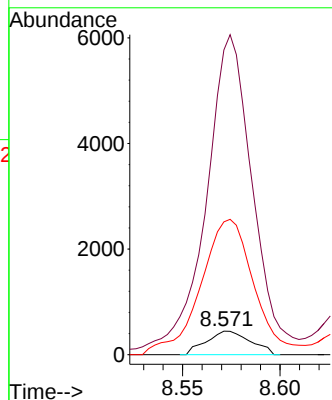
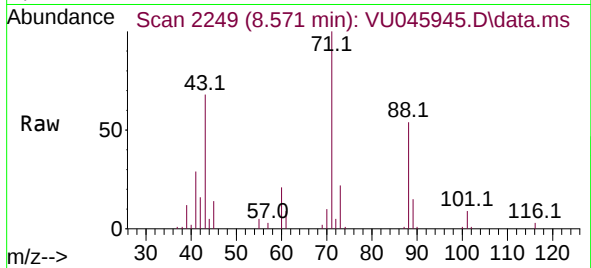




#56
Ethyl methacrylate
Concen: 2.659 ug/l
RT: 8.571 min Scan# 2175
Delta R.T. 0.238 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

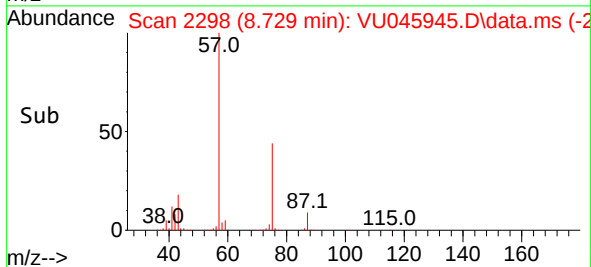
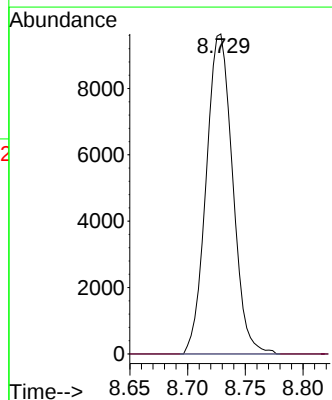
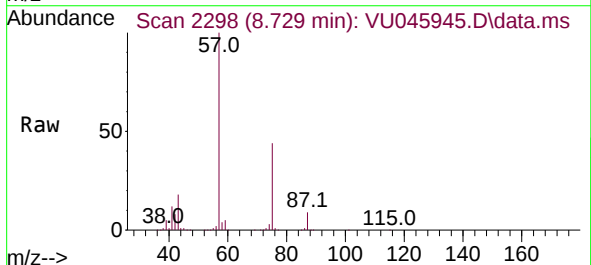
Instrument :
MSVOA_U
ClientSampleId :

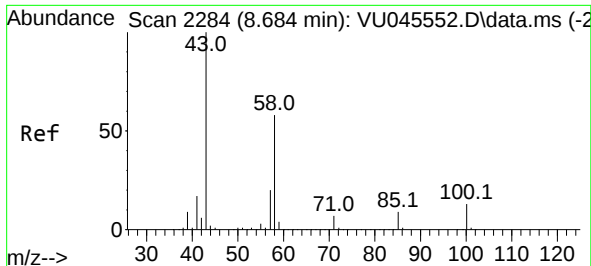
Tgt Ion: 69 Resp: 702
Ion Ratio Lower Upper
69 100
41 1366.4 51.0 76.4#
39 697.6 26.6 39.8#



#57
1,3-Dichloropropane
Concen: 5.363 ug/l
RT: 8.729 min Scan# 2298
Delta R.T. 0.151 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

Tgt Ion: 76 Resp: 15325
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

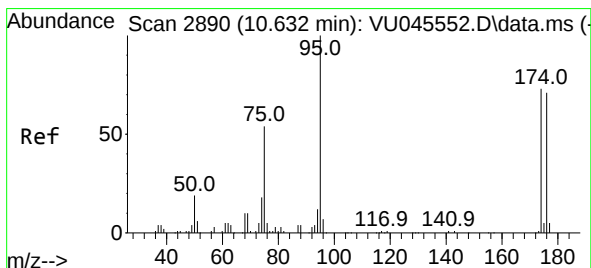
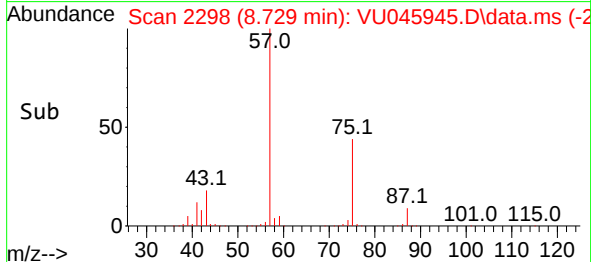
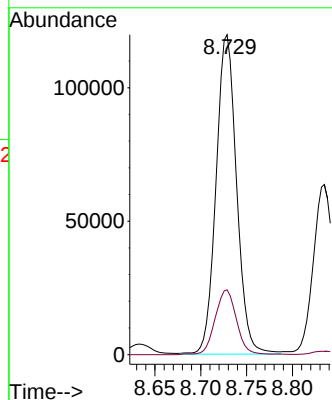
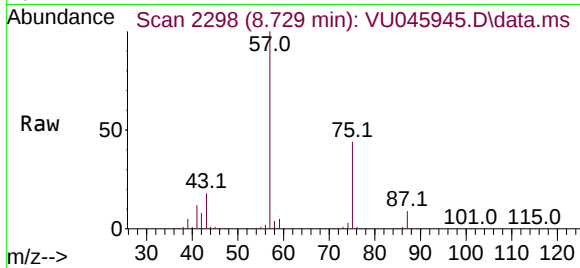




#59
2-Hexanone
Concen: 92.621 ug/l
RT: 8.729 min Scan# 21
Delta R.T. 0.045 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

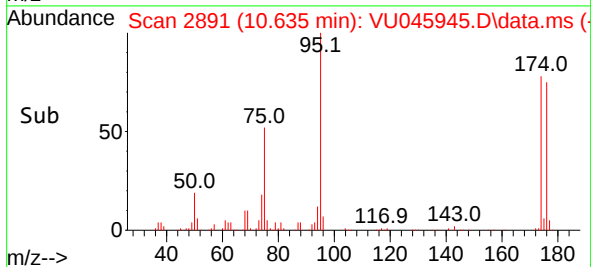
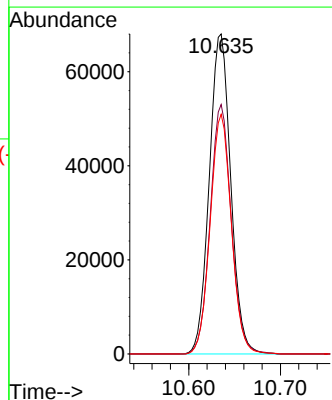
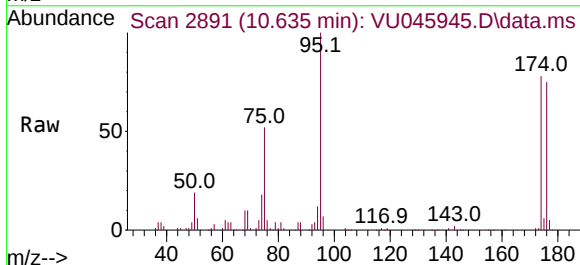
Instrument :
MSVOA_U
ClientSampleId :

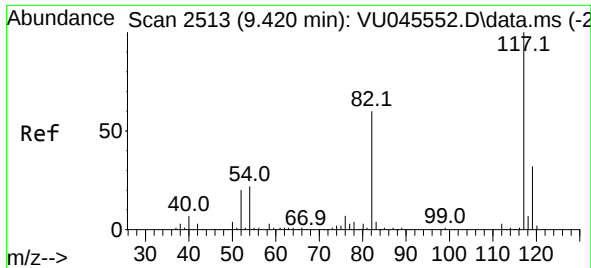
Tgt Ion: 43 Resp: 186850
Ion Ratio Lower Upper
43 100
58 20.4 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 51.383 ug/l
RT: 10.635 min Scan# 2891
Delta R.T. 0.003 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

Tgt Ion: 95 Resp: 110790
Ion Ratio Lower Upper
95 100
174 76.6 0.0 141.8
176 73.8 0.0 138.2

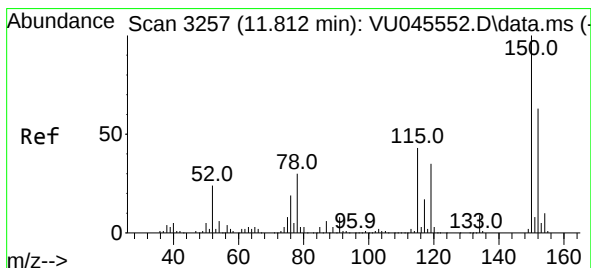
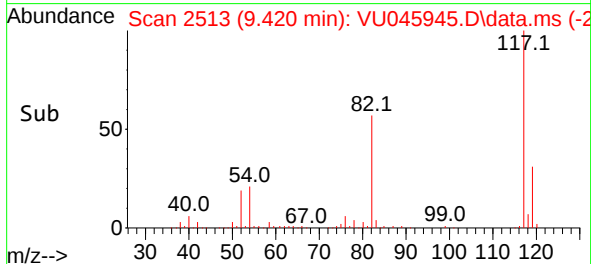
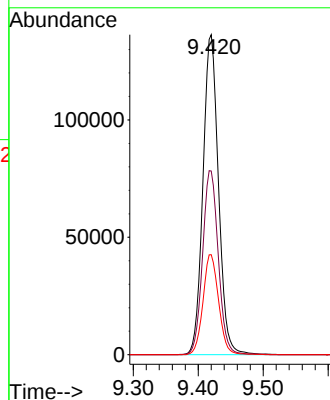
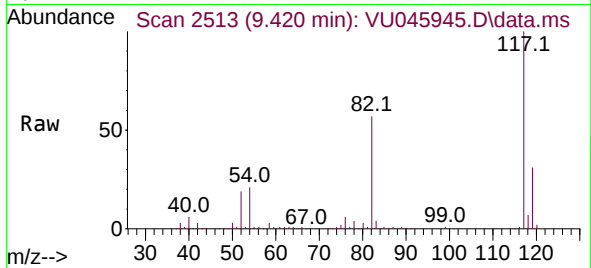




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

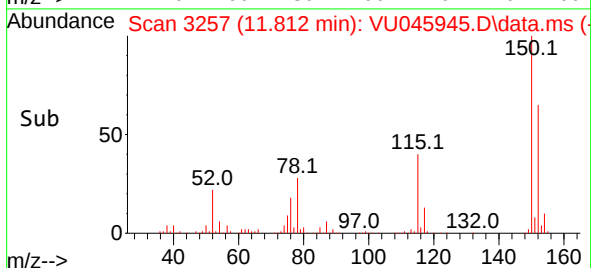
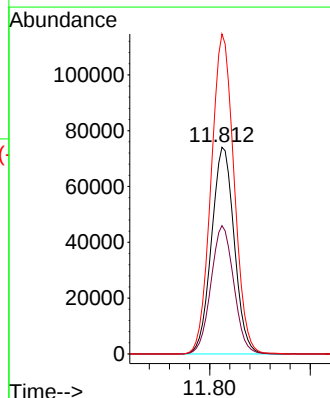
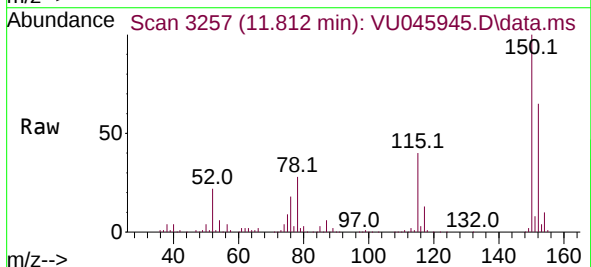
Instrument :
MSVOA_U
ClientSampleId :

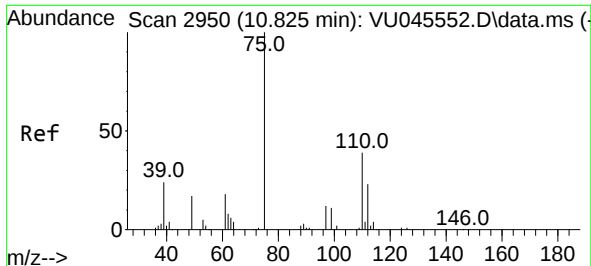
Tgt Ion:117 Resp: 227072
Ion Ratio Lower Upper
117 100
82 57.4 47.8 71.8
119 31.3 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.812 min Scan# 3257
Delta R.T. -0.000 min
Lab File: VU045945.D
Acq: 23 Nov 2021 04:00

Tgt Ion:152 Resp: 116431
Ion Ratio Lower Upper
152 100
115 62.2 42.7 128.1
150 156.1 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 16.255 ug/l

RT: 10.635 min Scan# 2891

Delta R.T. -0.190 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

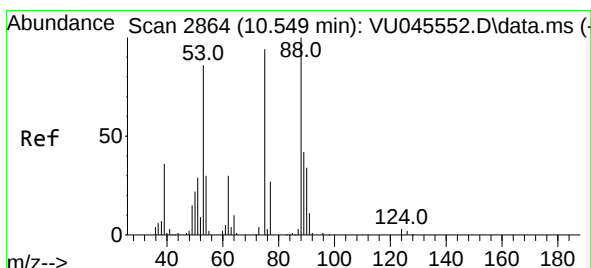
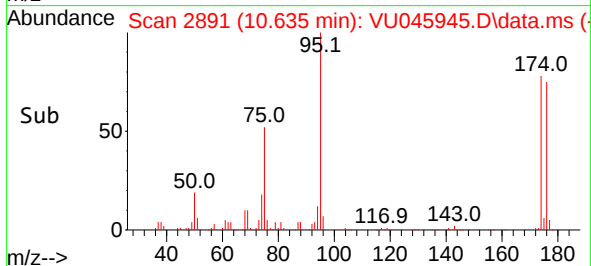
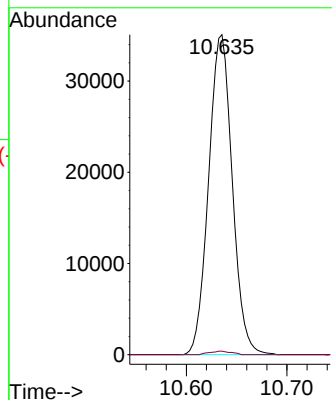
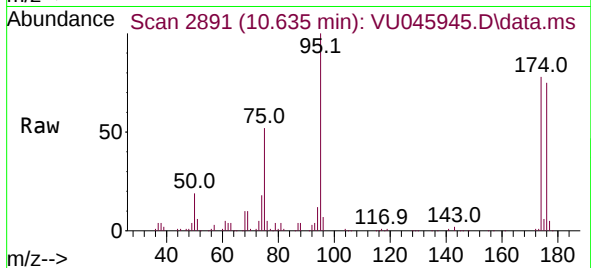
ClientSampleId :

Tgt Ion: 75 Resp: 57393

Ion Ratio Lower Upper

75 100

77 1.0 17.1 51.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.055 ug/l

RT: 10.635 min Scan# 2891

Delta R.T. 0.086 min

Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

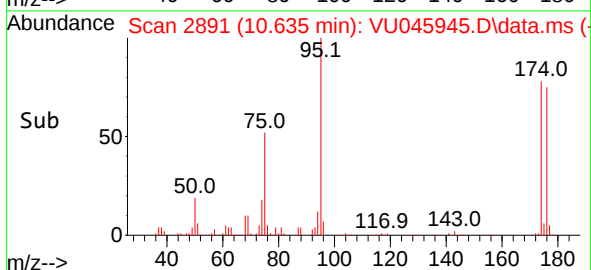
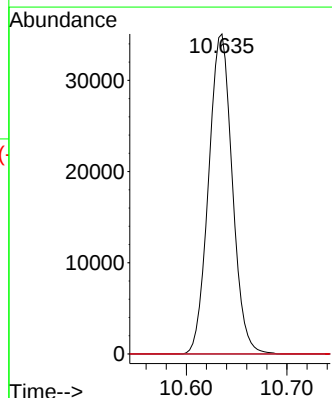
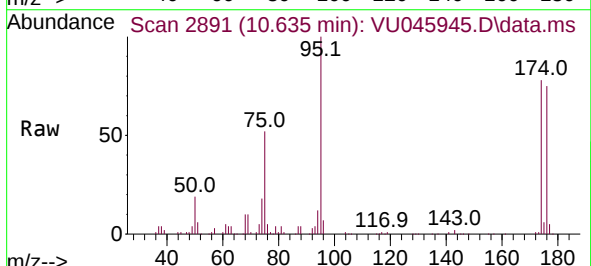
Tgt Ion: 75 Resp: 57393

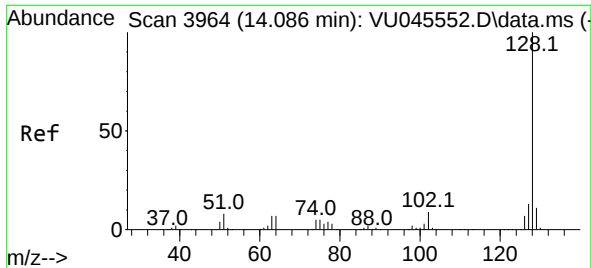
Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.4#

89 0.0 34.0 51.0#





#95

Naphthalene

Concen: 1.080 ug/l

RT: 14.092 min Scan# 3966

Delta R.T. 0.006 min

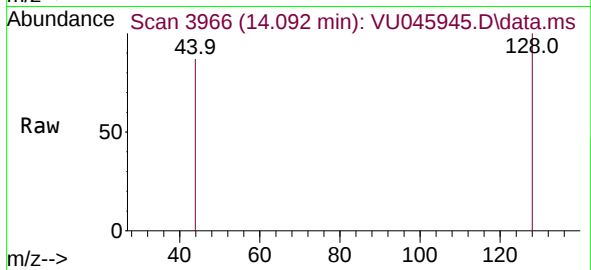
Lab File: VU045945.D

Acq: 23 Nov 2021 04:00

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:128 Resp: 489

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

