

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102921\
 Data File : VU045470.D
 Acq On : 29 Oct 2021 17:40
 Operator : SY/MD
 Sample : M4345-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MH-FFD

Quant Time: Oct 30 04:09:01 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)

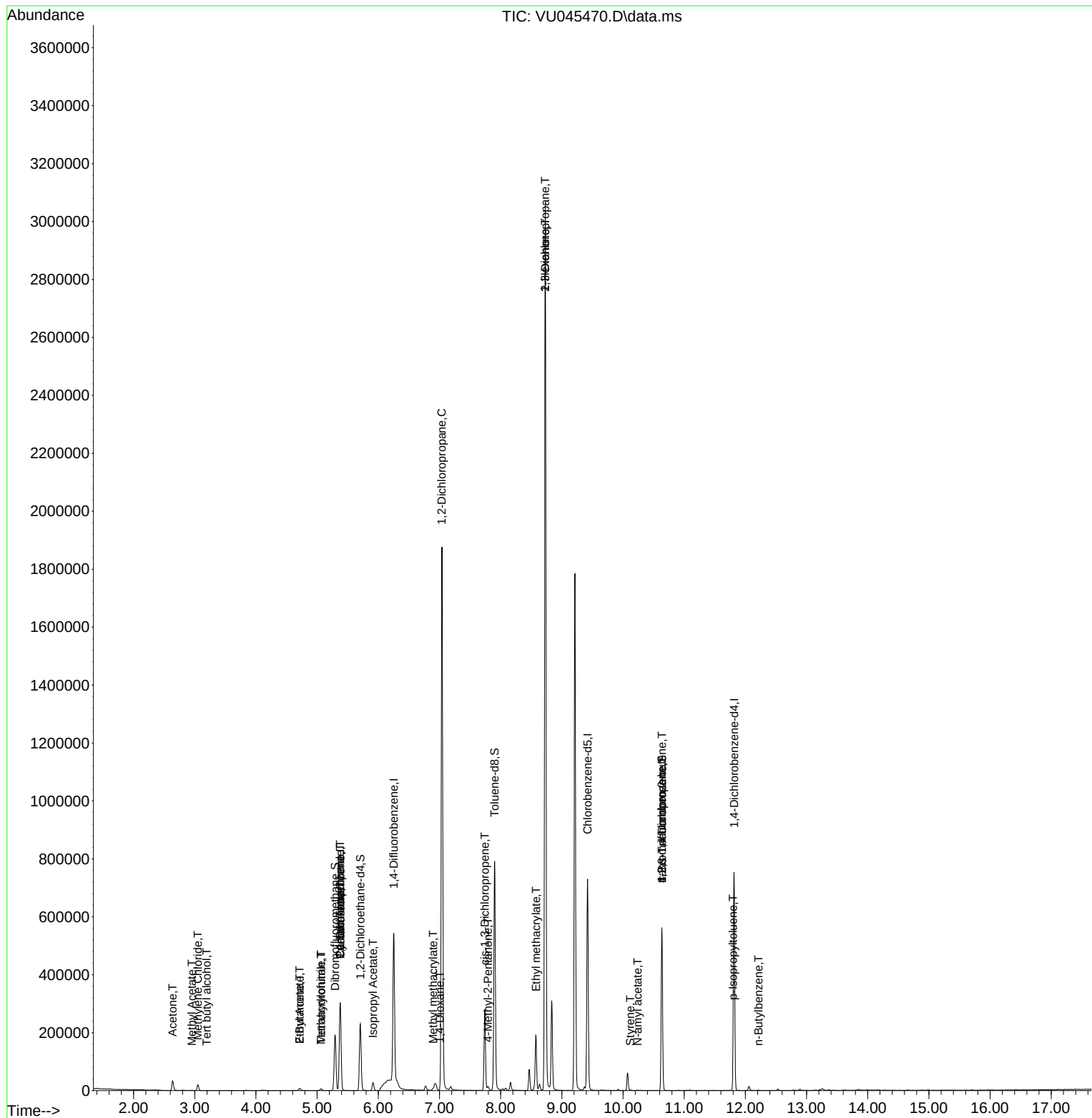
Internal Standards						
1) Pentafluorobenzene	5.379	168	203125	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.253	114	402983	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.420	117	389061	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.816	152	187039	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.706	65	169326	51.203	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 102.400%			
35) Dibromofluoromethane	5.295	113	124893	48.742	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.480%			
50) Toluene-d8	7.903	98	514427	51.197	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.400%			
62) 4-Bromofluorobenzene	10.636	95	196353	51.282	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 102.560%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	3.195	59	301	0.422	ug/l #	72
16) Acetone	2.639	43	42384	28.231	ug/l	98
18) Methyl Acetate	2.954	43	1338	0.239	ug/l #	73
20) Methylene Chloride	3.051	84	9819	3.282	ug/l	94
25) 2-Butanone	4.713	43	12386	5.465	ug/l	94
29) Tetrahydrofuran	5.063	42	4502	3.063	ug/l	96
31) Cyclohexane	5.379	56	4724	0.959	ug/l #	1
36) 1,1-Dichloropropene	5.375	75	18544	4.834	ug/l #	49
37) Ethyl Acetate	4.713	43	12386	2.666	ug/l #	67
38) Carbon Tetrachloride	5.375	117	20779	6.211	ug/l #	17
41) Methacrylonitrile	5.067	41	2607	1.060	ug/l #	31
43) Isopropyl Acetate	5.915	43	29830	4.261	ug/l	99
45) 1,2-Dichloropropane	7.038	63	2378	0.783	ug/l #	43
48) Methyl methacrylate	6.896	41	9872	2.975	ug/l #	13
49) 1,4-Dioxane	7.005	88	20	0.237	ug/l #	13
51) 4-Methyl-2-Pentanone	7.793	43	8094	1.789	ug/l	95
54) cis-1,3-Dichloropropene	7.742	75	50797	10.687	ug/l #	60
56) Ethyl methacrylate	8.578	69	1022	1.829	ug/l #	1
57) 1,3-Dichloropropane	8.729	76	31102	6.111	ug/l #	43
59) 2-Hexanone	8.729	43	416897	118.906	ug/l #	47
70) Styrene	10.118	104	418	1.021	ug/l #	84
74) N-amyl acetate	10.240	43	1301	1.349	ug/l #	40
76) 1,2,3-Trichloropropane	10.636	75	100326	20.132	ug/l #	42
81) trans-1,4-Dichloro-2-b...	10.636	75	100326	55.899	ug/l #	12
86) p-Isopropyltoluene	11.796	119	454	0.226	ug/l #	1
89) n-Butylbenzene	12.214	91	727	0.999	ug/l	94

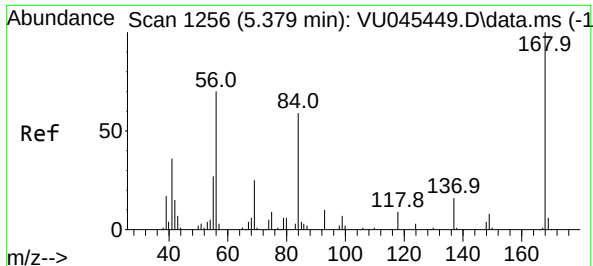
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 29 11:09:42 2021
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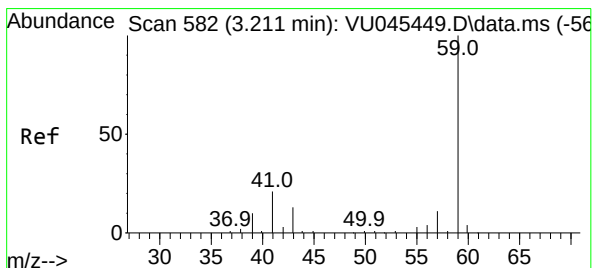
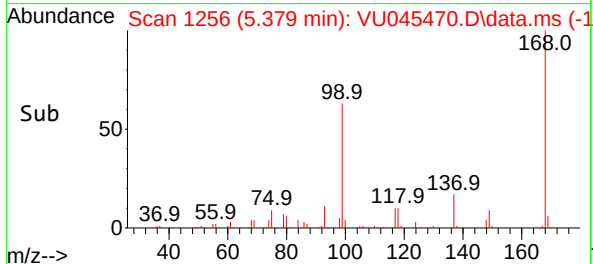
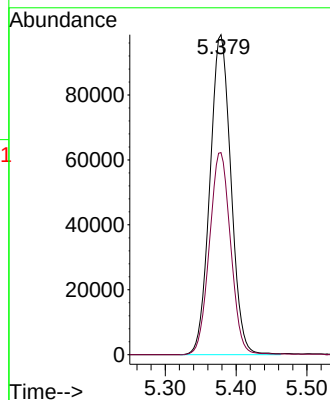
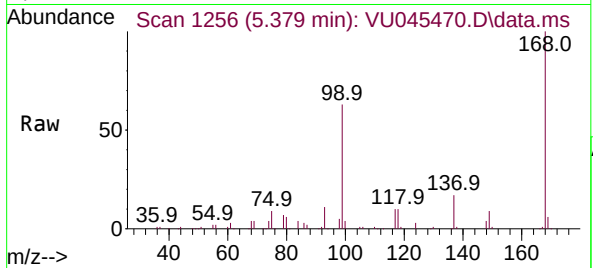




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.379 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

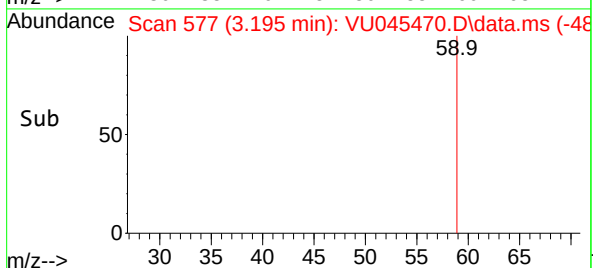
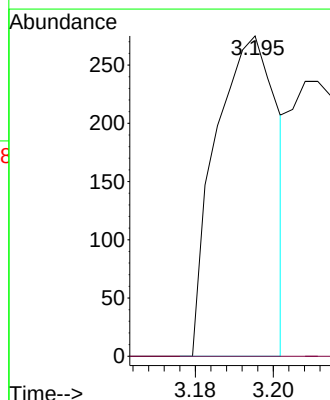
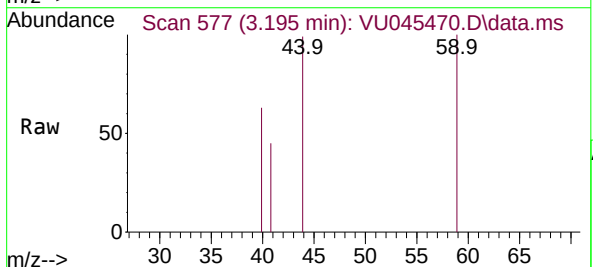
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

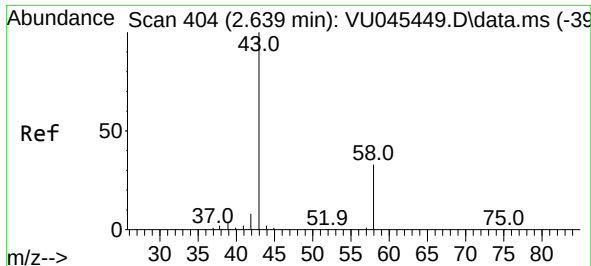
Tgt Ion:168 Resp: 203125
Ion Ratio Lower Upper
168 100
99 63.1 51.0 76.6



#11
Tert butyl alcohol
Concen: 0.422 ug/l
RT: 3.195 min Scan# 577
Delta R.T. -0.016 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 59 Resp: 301
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

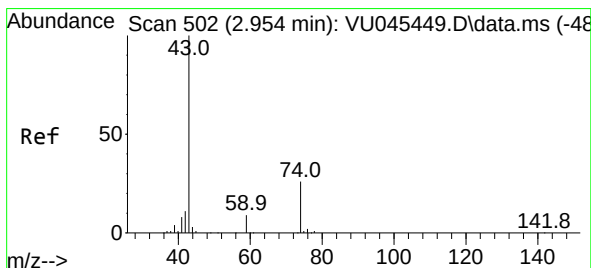
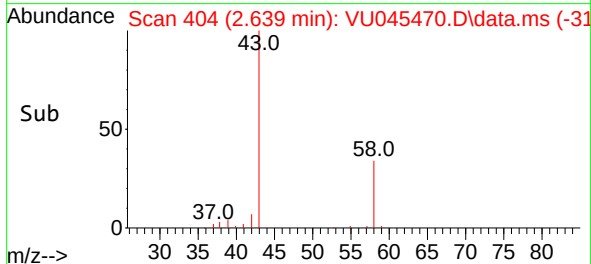
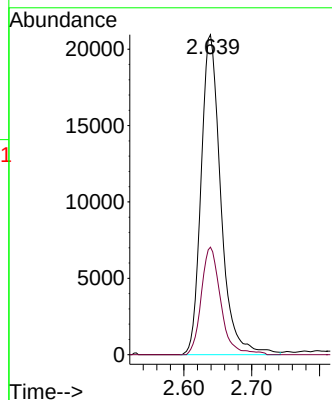
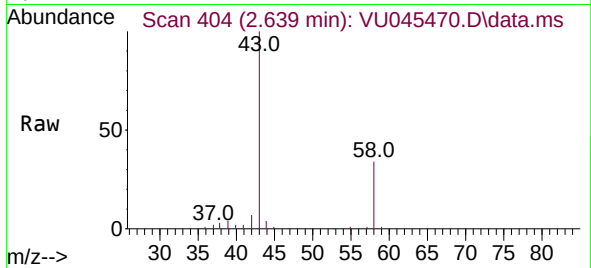




#16
Acetone
Concen: 28.231 ug/l
RT: 2.639 min Scan# 404
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

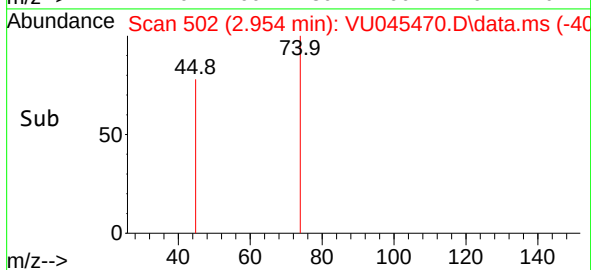
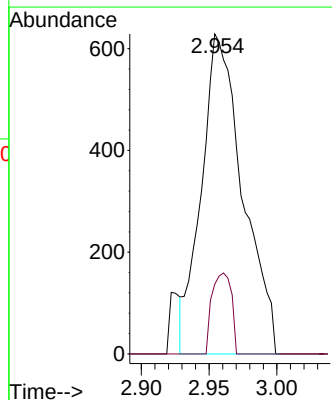
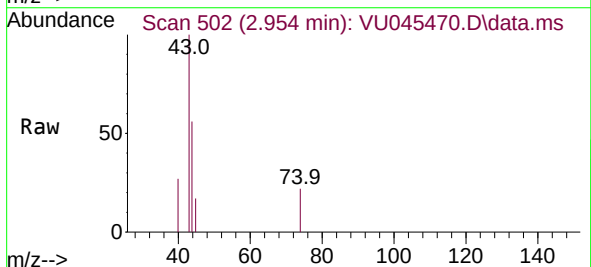
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

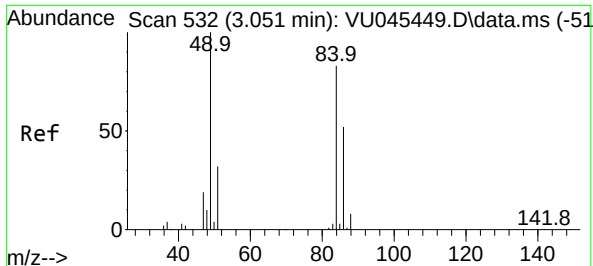
Tgt Ion: 43 Resp: 42384
Ion Ratio Lower Upper
43 100
58 33.6 26.2 39.2



#18
Methyl Acetate
Concen: 0.239 ug/l
RT: 2.954 min Scan# 502
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 43 Resp: 1338
Ion Ratio Lower Upper
43 100
74 11.8 20.2 30.2#

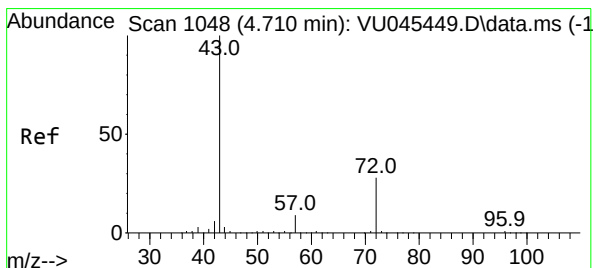
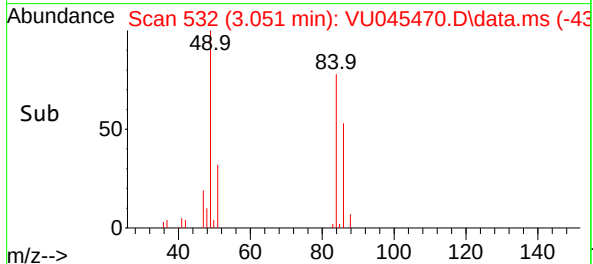
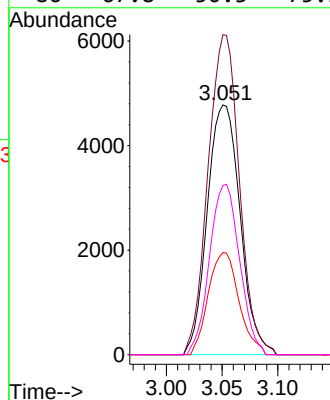
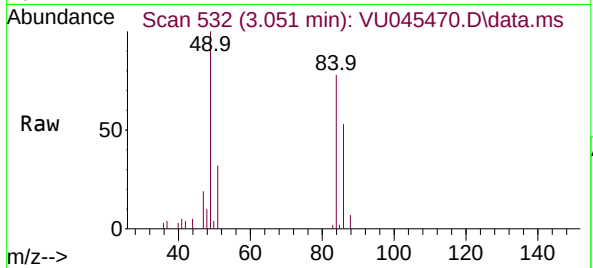




#20
Methylene Chloride
Concen: 3.282 ug/l
RT: 3.051 min Scan# 51
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

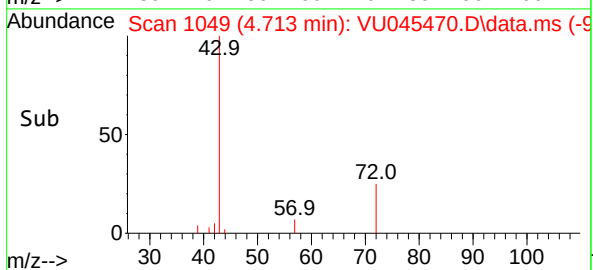
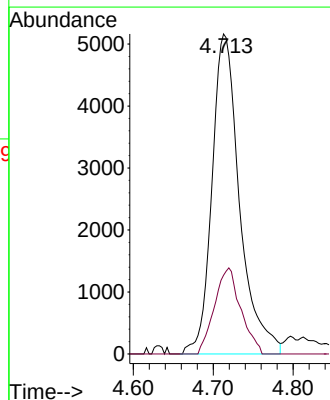
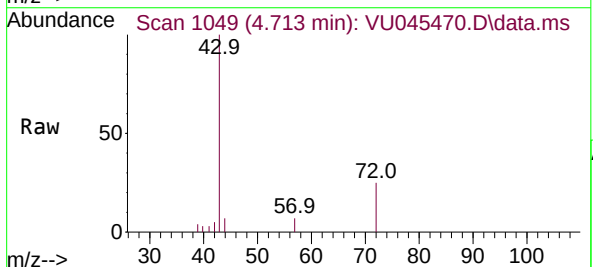
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

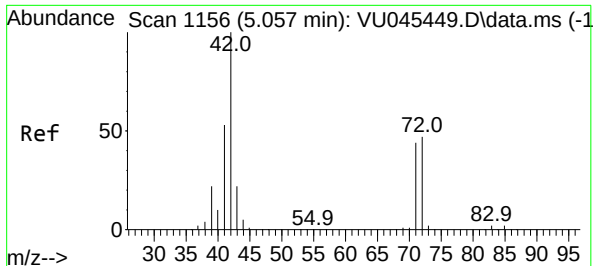
Tgt Ion:	84	Resp:	9819
Ion	Ratio	Lower	Upper
84	100		
49	128.1	96.4	144.6
51	40.9	30.5	45.7
86	67.8	50.3	75.5



#25
2-Butanone
Concen: 5.465 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. 0.003 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion:	43	Resp:	12386
Ion	Ratio	Lower	Upper
43	100		
72	24.6	22.0	33.0





#29

Tetrahydrofuran

Concen: 3.063 ug/l

RT: 5.063 min Scan# 1156

Delta R.T. 0.006 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

Instrument :

MSVOA_U

ClientSampleId :

MH-FFD

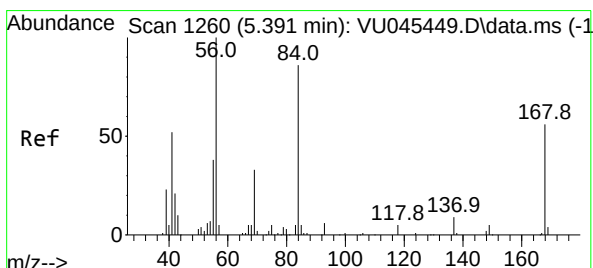
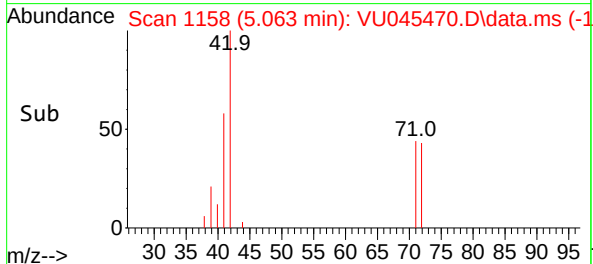
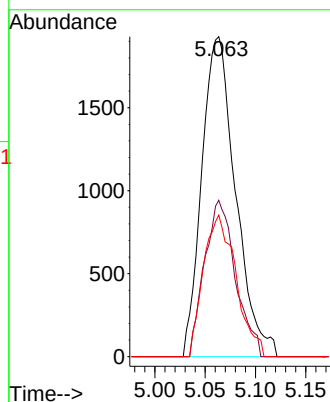
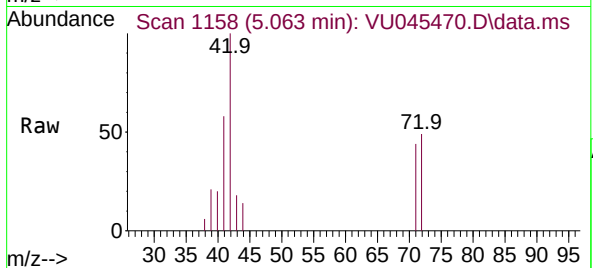
Tgt Ion: 42 Resp: 4502

Ion Ratio Lower Upper

42 100

72 44.6 38.2 57.4

71 42.7 35.4 53.2



#31

Cyclohexane

Concen: 0.959 ug/l

RT: 5.379 min Scan# 1256

Delta R.T. -0.013 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

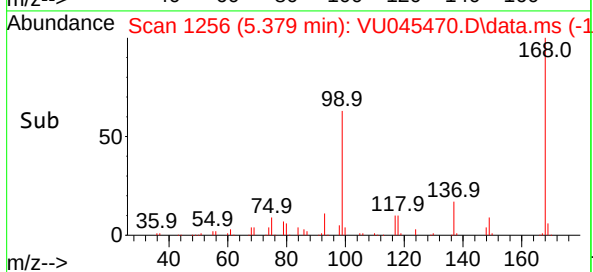
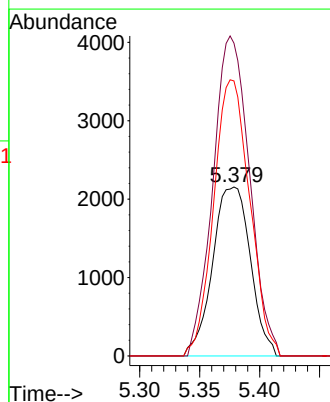
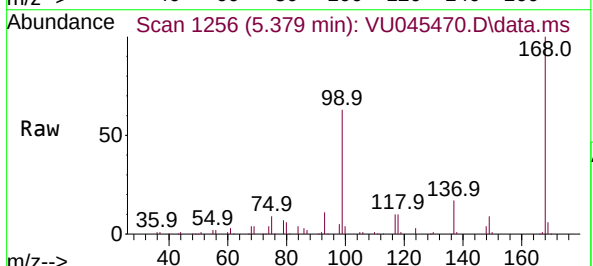
Tgt Ion: 56 Resp: 4724

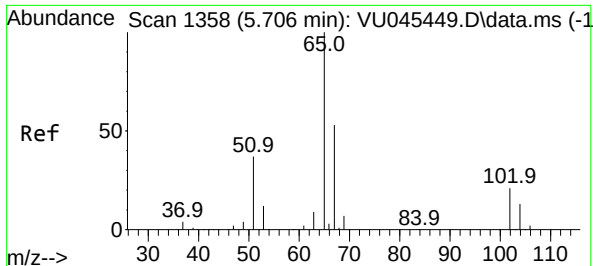
Ion Ratio Lower Upper

56 100

69 185.2 26.4 39.6#

84 162.8 68.4 102.6#





#33

1,2-Dichloroethane-d4

Concen: 51.203 ug/l

RT: 5.706 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

Instrument :

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ClientSampleId :

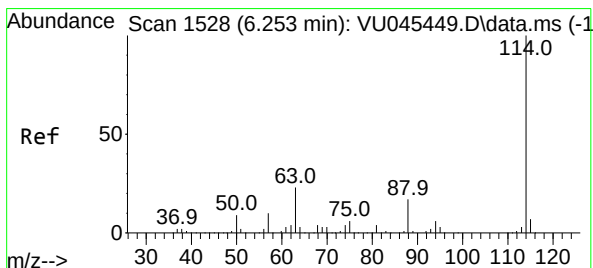
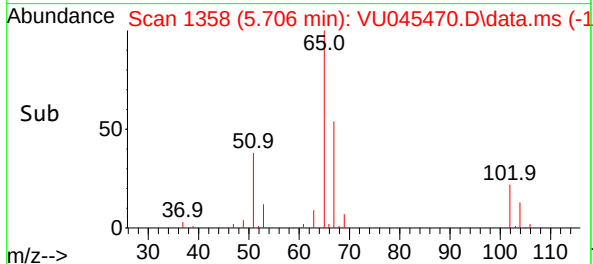
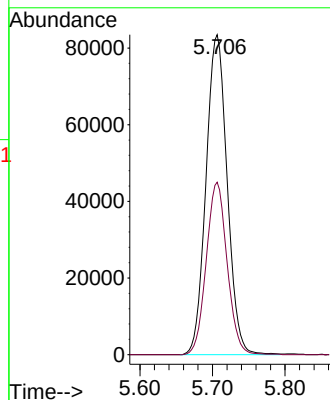
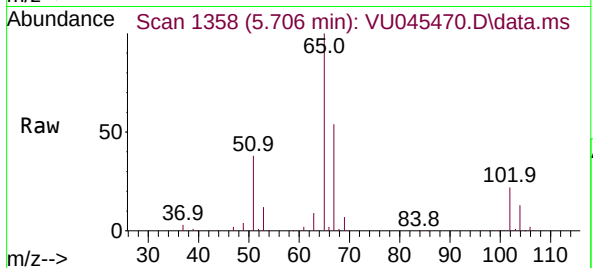
MH-FFD

Tgt Ion: 65 Resp: 169326

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

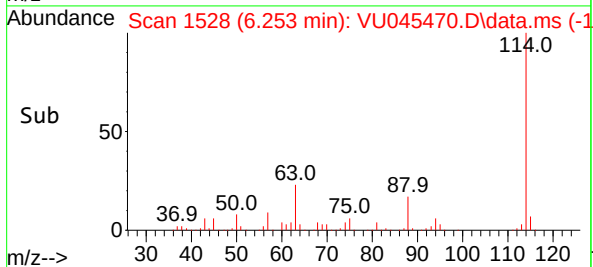
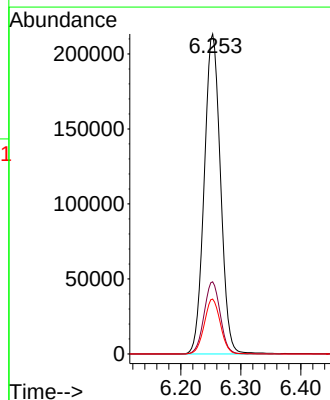
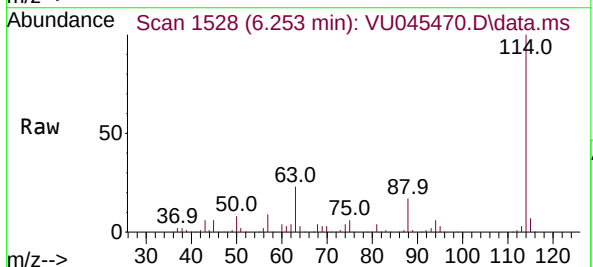
Tgt Ion: 114 Resp: 402983

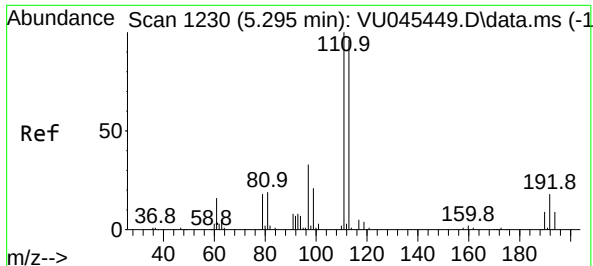
Ion Ratio Lower Upper

114 100

63 22.6 0.0 45.6

88 17.2 0.0 33.8

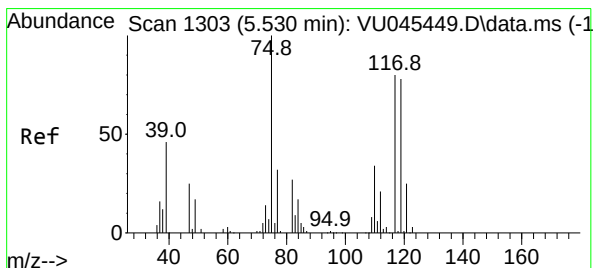
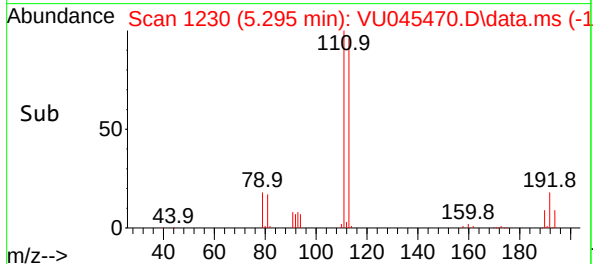
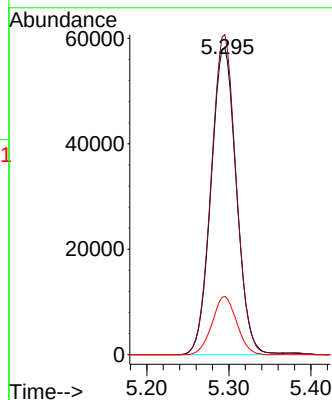
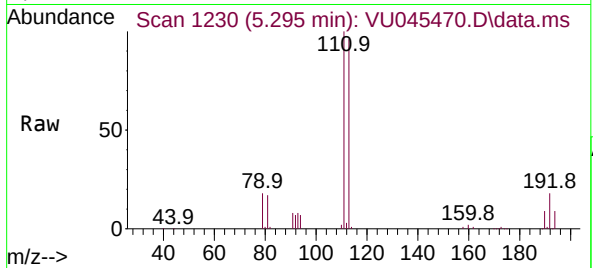




#35
Dibromofluoromethane
Concen: 48.742 ug/l
RT: 5.295 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

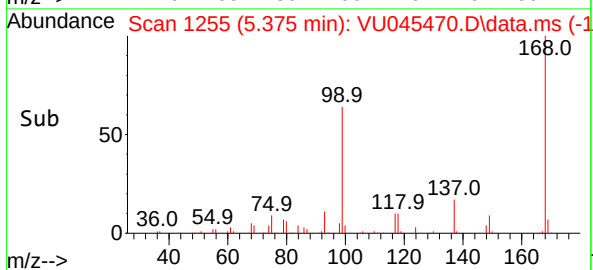
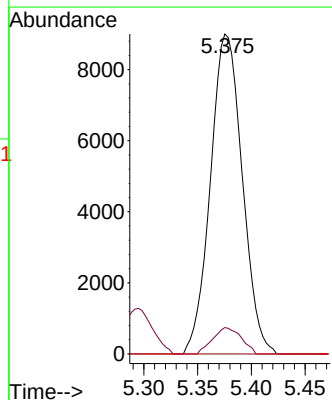
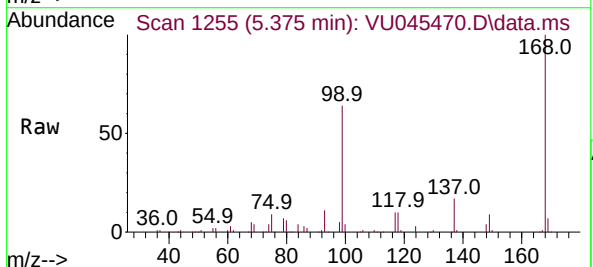
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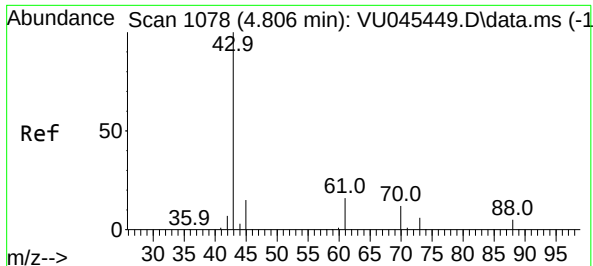
Tgt Ion:113 Resp: 124893
Ion Ratio Lower Upper
113 100
111 102.8 82.8 124.2
192 18.4 14.8 22.2



#36
1,1-Dichloropropene
Concen: 4.834 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.154 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 75 Resp: 18544
Ion Ratio Lower Upper
75 100
110 7.4 16.7 50.0#
77 0.0 25.0 37.4#

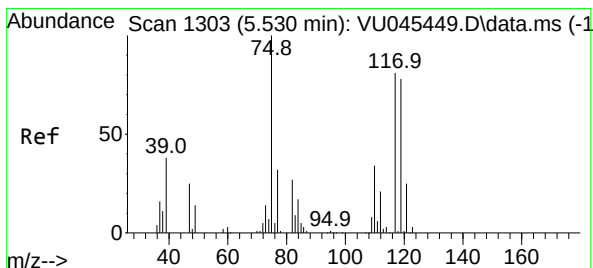
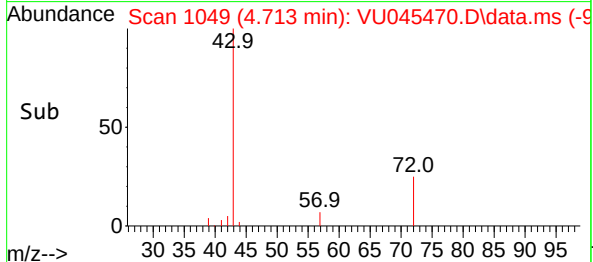
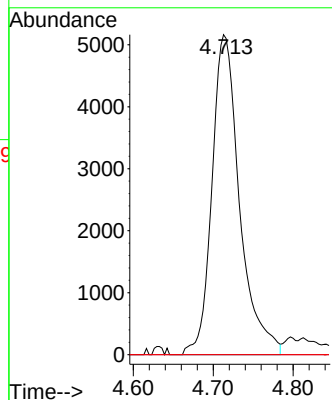
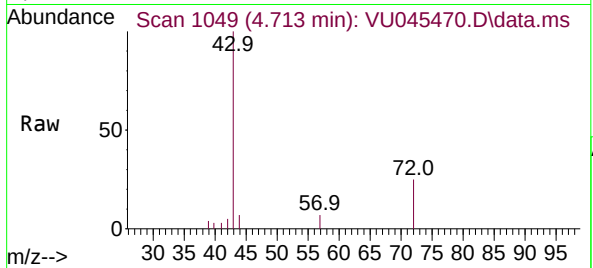




#37
Ethyl Acetate
Concen: 2.666 ug/l
RT: 4.713 min Scan# 1049
Delta R.T. -0.093 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

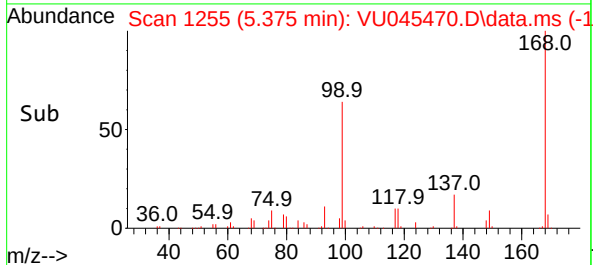
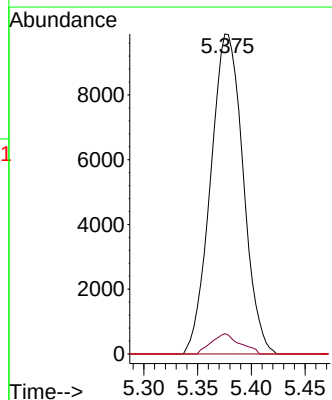
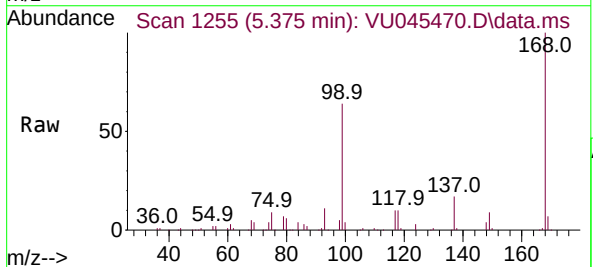
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

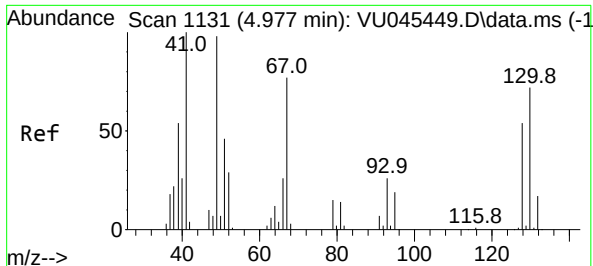
Tgt Ion: 43 Resp: 12386
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.1 13.7#



#38
Carbon Tetrachloride
Concen: 6.211 ug/l
RT: 5.375 min Scan# 1255
Delta R.T. -0.154 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 117 Resp: 20779
Ion Ratio Lower Upper
117 100
119 6.3 77.4 116.0#
121 0.0 24.8 37.2#

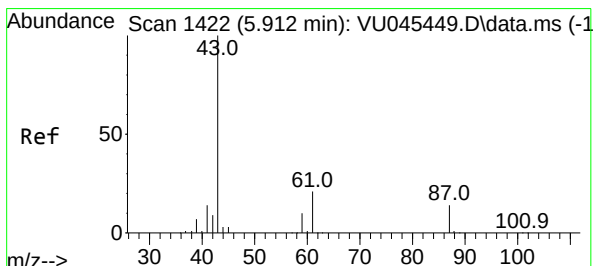
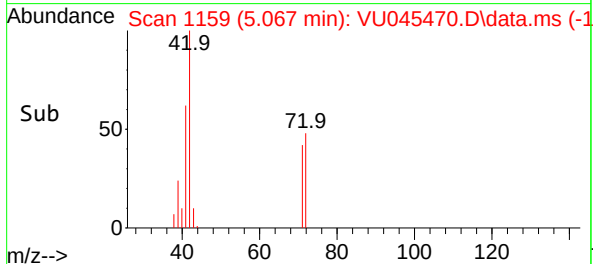
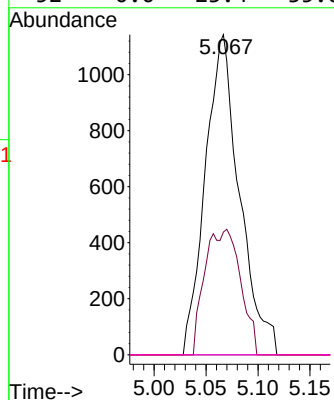
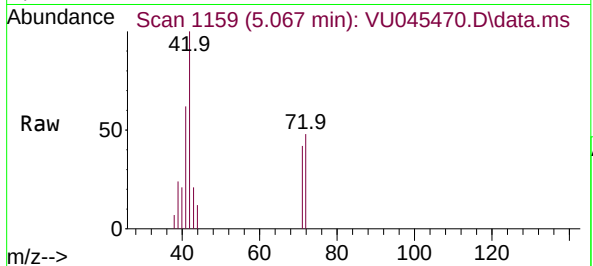




#41
Methacrylonitrile
Concen: 1.060 ug/l
RT: 5.067 min Scan# 1131
Delta R.T. 0.090 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

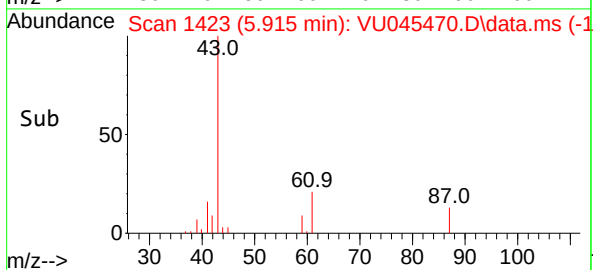
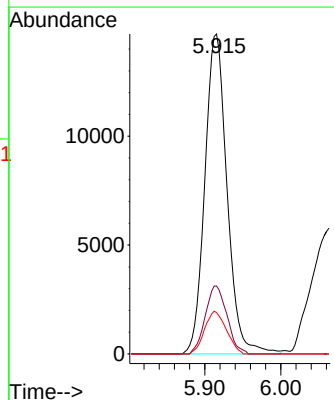
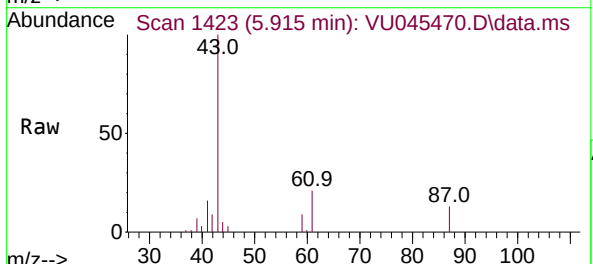
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

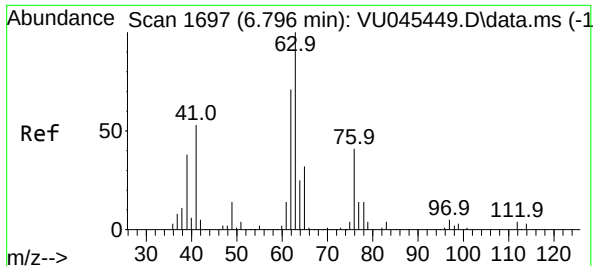
Tgt Ion:	41	Resp:	2607
Ion	Ratio	Lower	Upper
41	100		
39	19.4	43.4	65.0#
67	0.0	61.0	91.4#
52	0.0	23.4	35.0#



#43
Isopropyl Acetate
Concen: 4.261 ug/l
RT: 5.915 min Scan# 1423
Delta R.T. 0.003 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion:	43	Resp:	29830
Ion	Ratio	Lower	Upper
43	100		
61	20.7	16.9	25.3
87	13.0	11.0	16.4





#45

1,2-Dichloropropane

Concen: 0.783 ug/l

RT: 7.038 min Scan# 1

Delta R.T. 0.241 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

Instrument :

MSVOA_U

ClientSampleId :

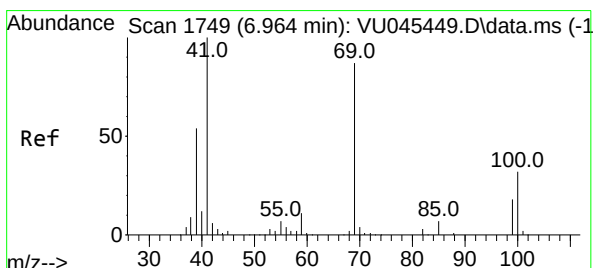
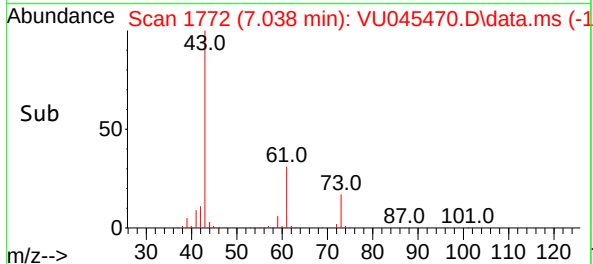
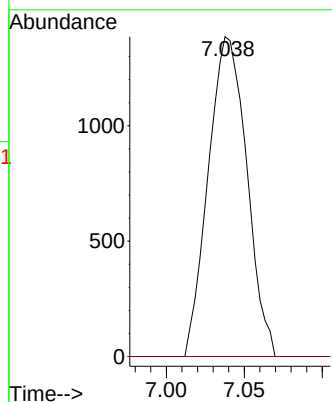
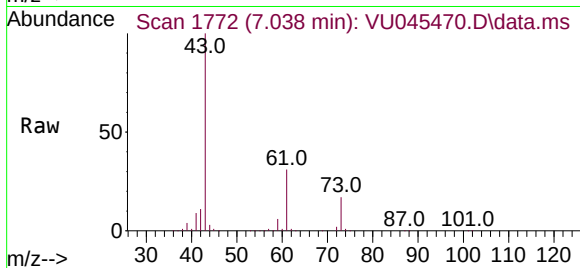
MH-FFD

Tgt Ion: 63 Resp: 2378

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#48

Methyl methacrylate

Concen: 2.975 ug/l

RT: 6.896 min Scan# 1728

Delta R.T. -0.068 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

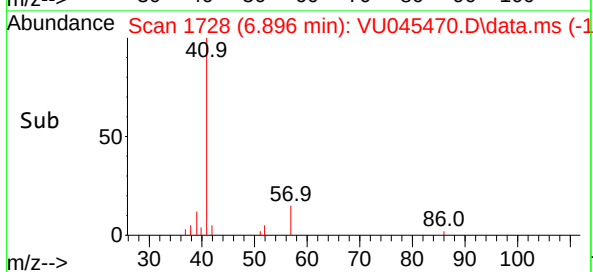
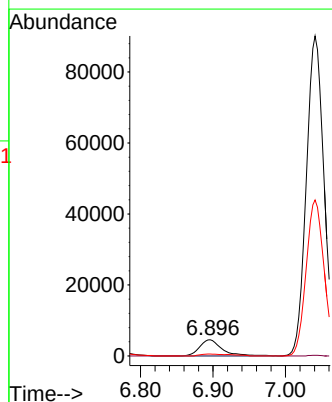
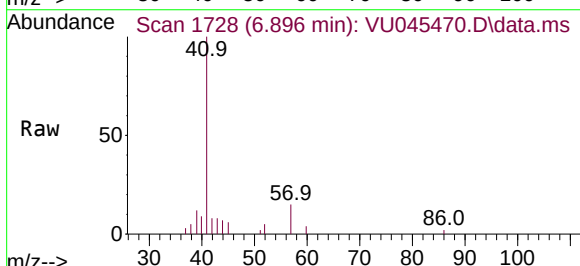
Tgt Ion: 41 Resp: 9872

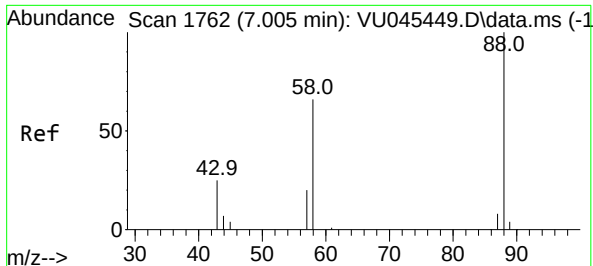
Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.2#

39 0.0 43.9 65.9#

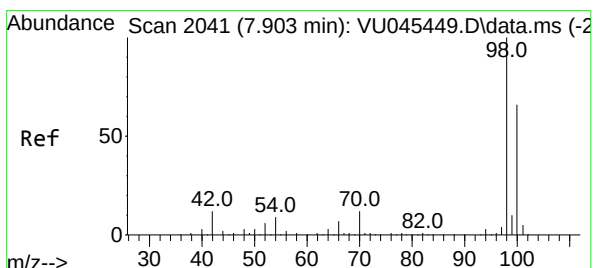
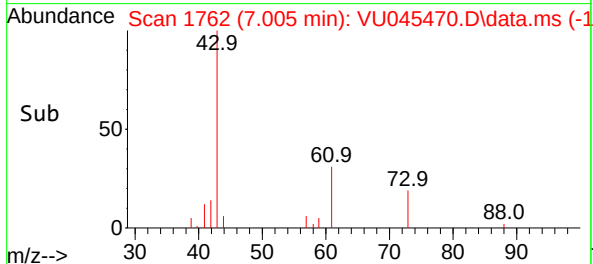
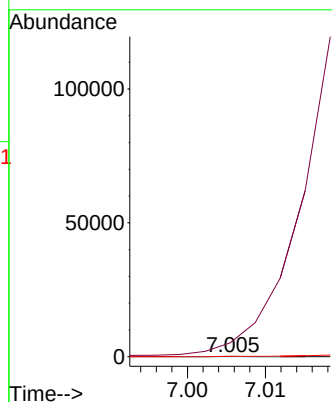
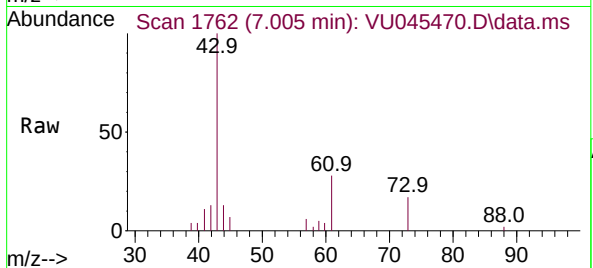




#49
1,4-Dioxane
Concen: 0.237 ug/l
RT: 7.005 min Scan# 1762
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

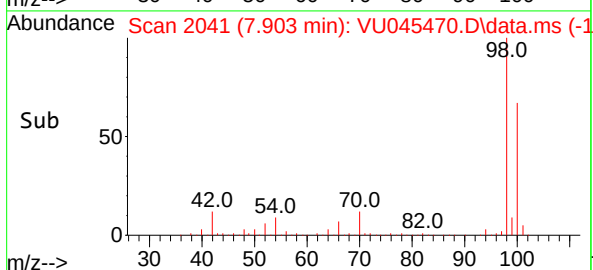
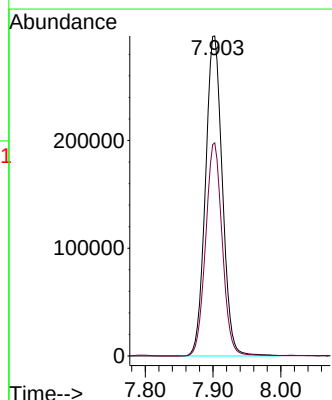
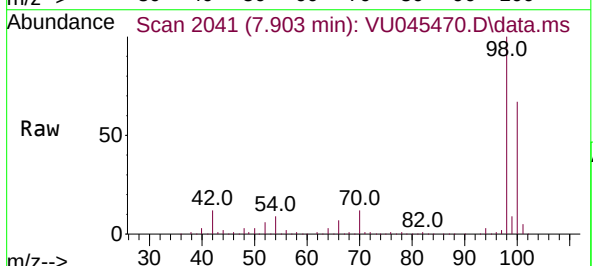
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

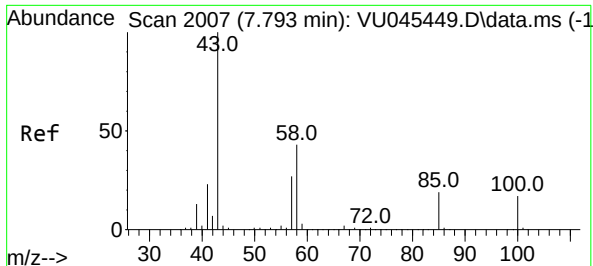
Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 58.7 88.1#



#50
Toluene-d8
Concen: 51.197 ug/l
RT: 7.903 min Scan# 2041
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 98 Resp: 514427
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 1.789 ug/l

RT: 7.793 min Scan# 2007

Delta R.T. 0.000 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

Instrument :

MSVOA_U

ClientSampleId :

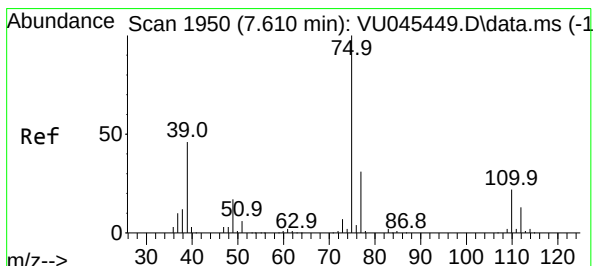
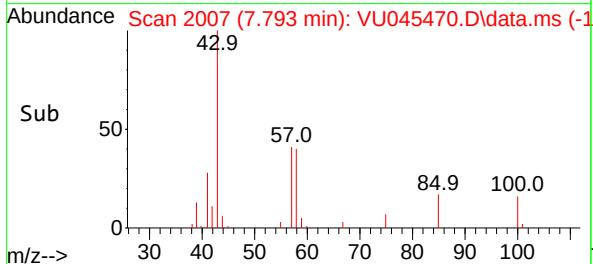
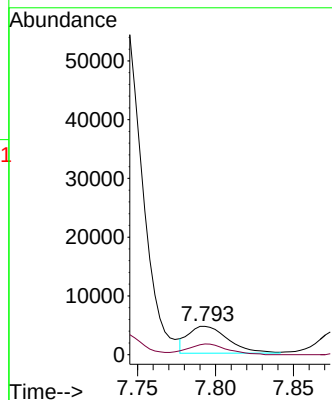
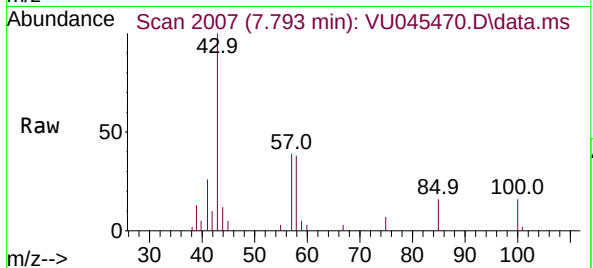
MH-FFD

Tgt Ion: 43 Resp: 8094

Ion Ratio Lower Upper

43 100

58 39.3 33.8 50.8



#54

cis-1,3-Dichloropropene

Concen: 10.687 ug/l

RT: 7.742 min Scan# 1991

Delta R.T. 0.132 min

Lab File: VU045470.D

Acq: 29 Oct 2021 17:40

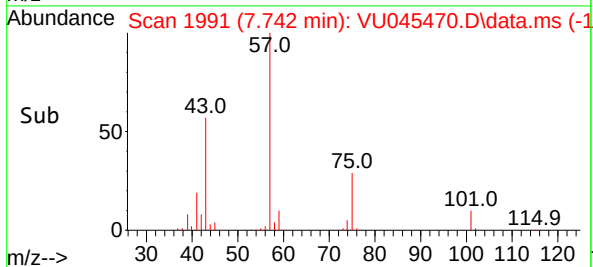
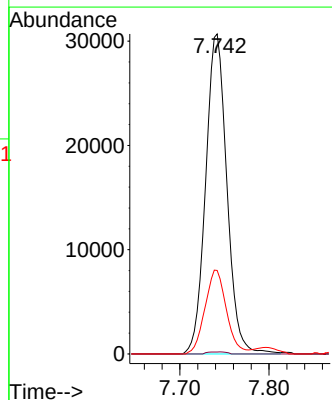
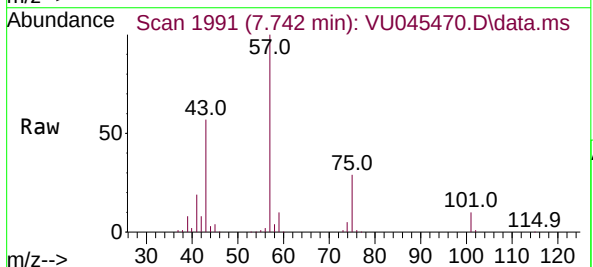
Tgt Ion: 75 Resp: 50797

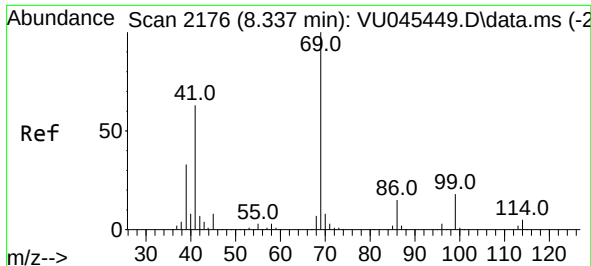
Ion Ratio Lower Upper

75 100

77 0.6 24.6 37.0#

39 26.1 37.1 55.7#

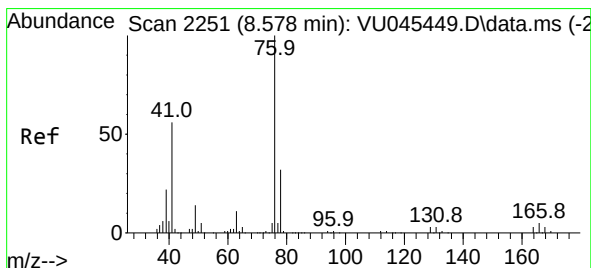
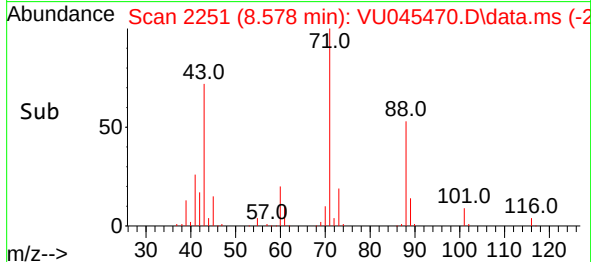
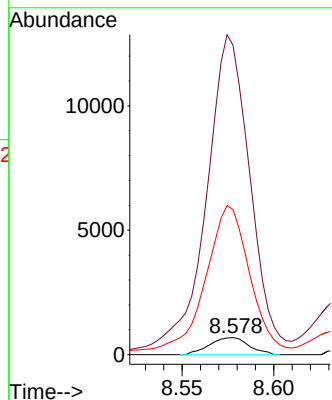
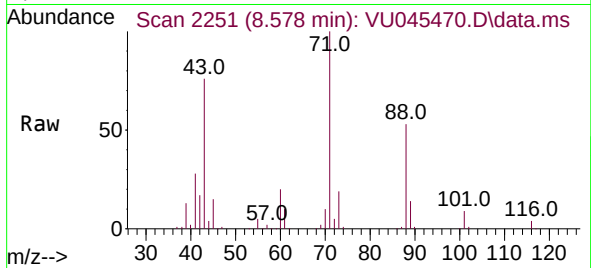




#56
Ethyl methacrylate
Concen: 1.829 ug/l
RT: 8.578 min Scan# 2176
Delta R.T. 0.241 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

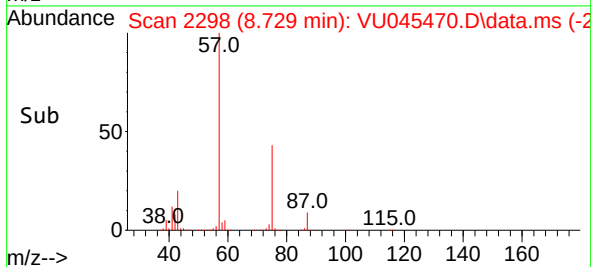
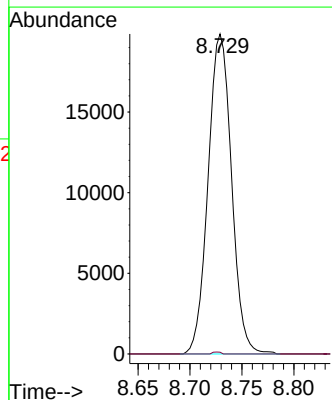
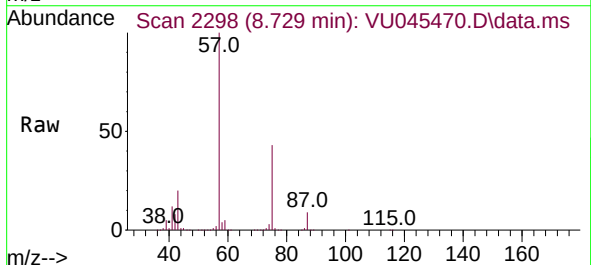
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

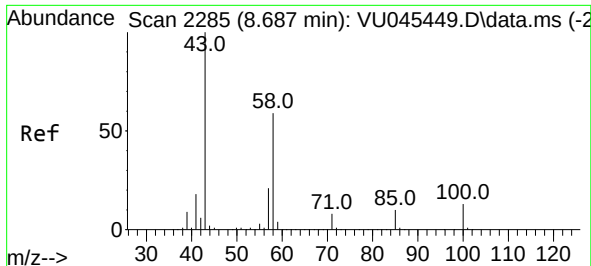
Tgt Ion: 69 Resp: 1022
Ion Ratio Lower Upper
69 100
41 2017.5 51.0 76.4#
39 959.1 26.6 39.8#



#57
1,3-Dichloropropane
Concen: 6.111 ug/l
RT: 8.729 min Scan# 2298
Delta R.T. 0.151 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 76 Resp: 31102
Ion Ratio Lower Upper
76 100
78 0.2 25.8 38.8#

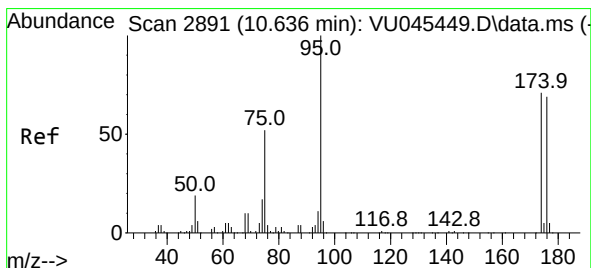
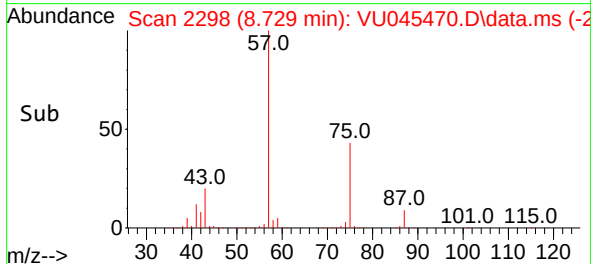
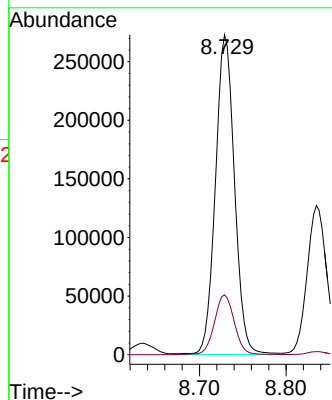
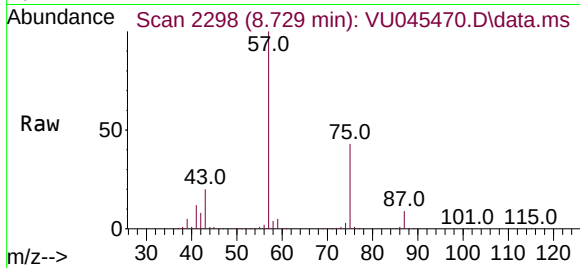




#59
2-Hexanone
Concen: 118.906 ug/l
RT: 8.729 min Scan# 21
Delta R.T. 0.042 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

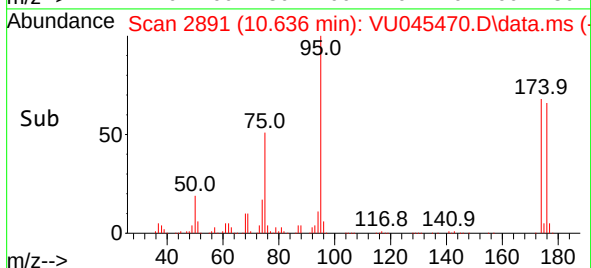
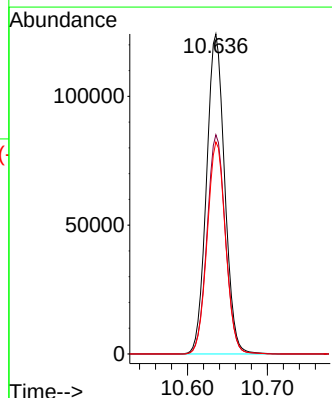
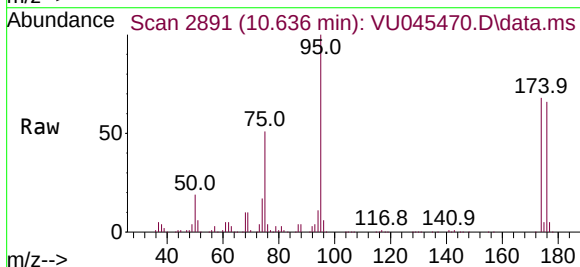
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

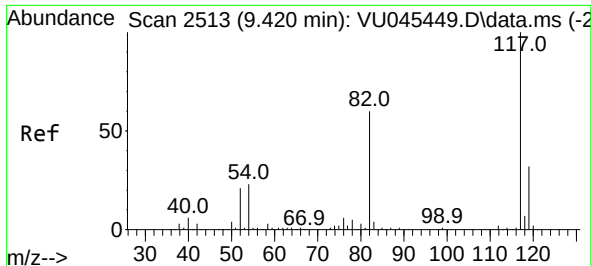
Tgt Ion: 43 Resp: 416897
Ion Ratio Lower Upper
43 100
58 19.6 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 51.282 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 95 Resp: 196353
Ion Ratio Lower Upper
95 100
174 69.2 0.0 141.8
176 66.8 0.0 138.2

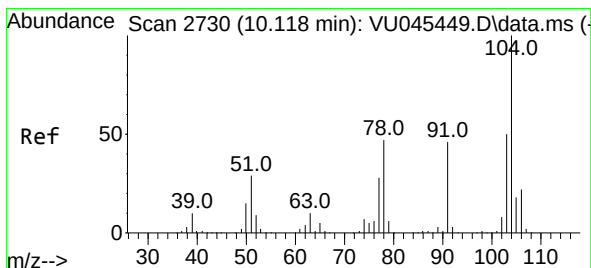
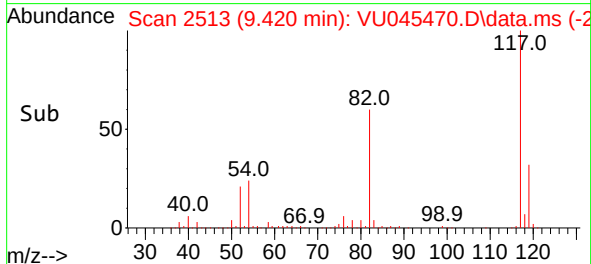
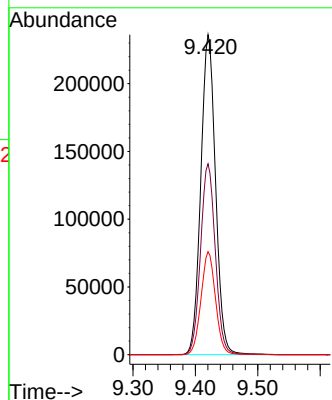
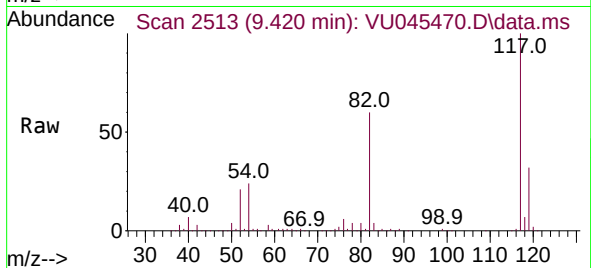




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.420 min Scan# 2513
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

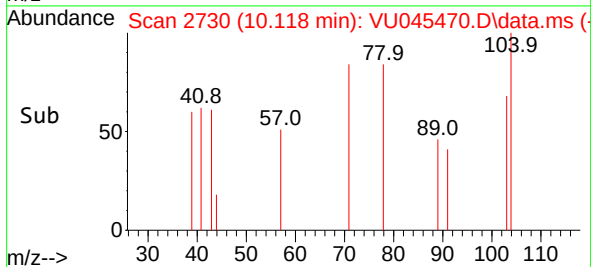
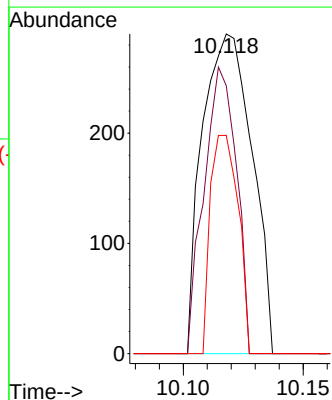
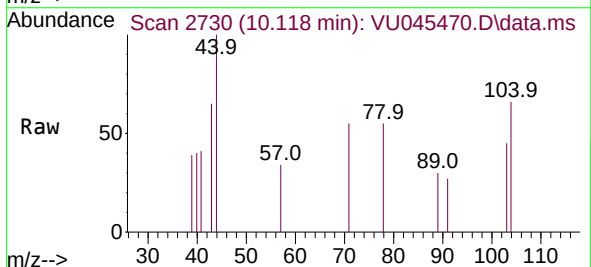
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

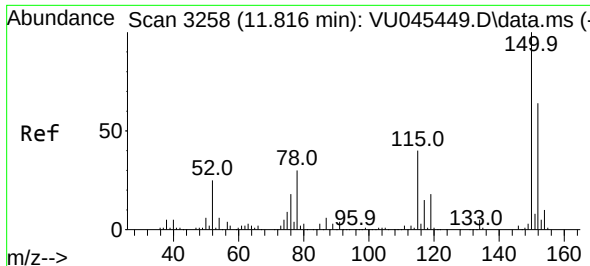
Tgt Ion:117 Resp: 389061
Ion Ratio Lower Upper
117 100
82 59.7 47.8 71.8
119 32.2 25.8 38.8



#70
Styrene
Concen: 1.021 ug/l
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion:104 Resp: 418
Ion Ratio Lower Upper
104 100
78 58.4 41.8 62.6
103 38.0 43.8 65.6#

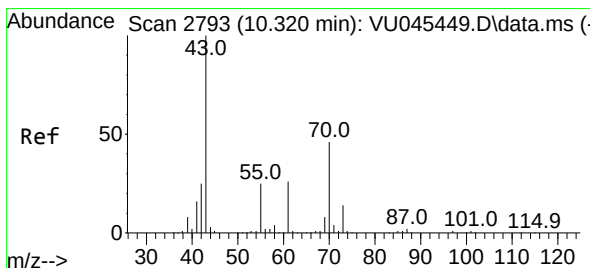
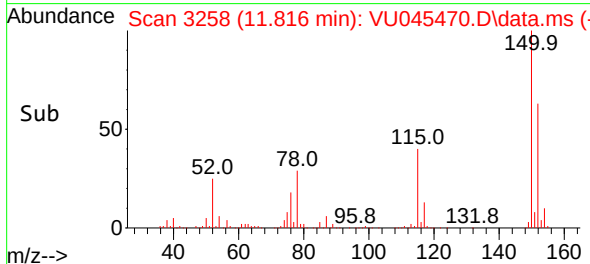
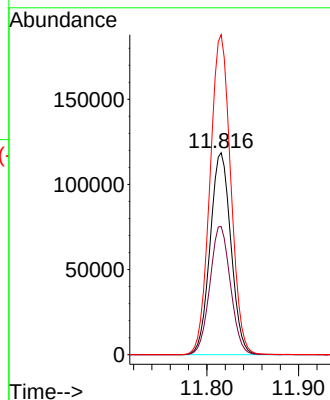
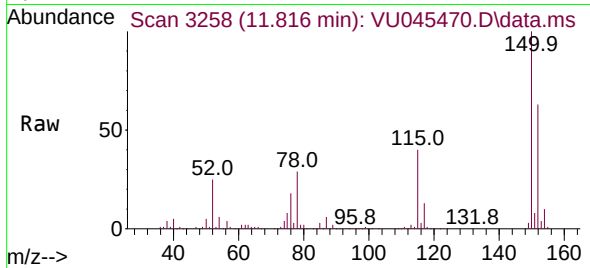




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.816 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

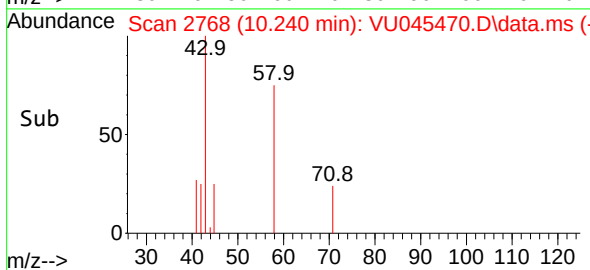
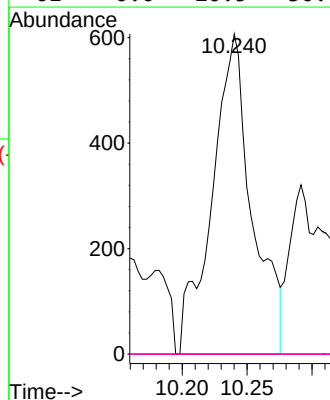
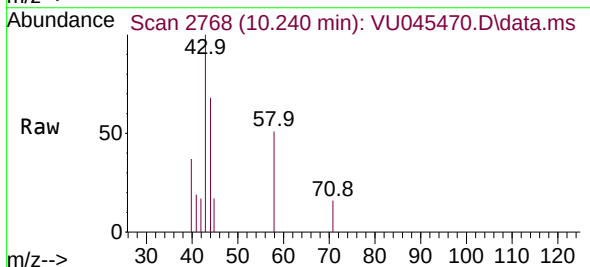
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

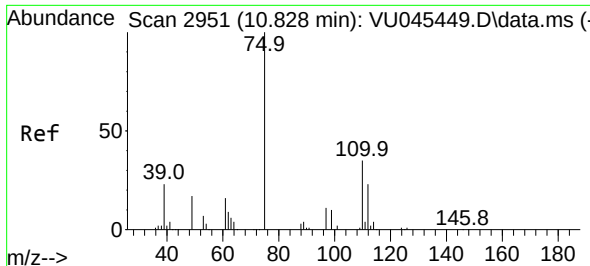
Tgt Ion:152 Resp: 187039
Ion Ratio Lower Upper
152 100
115 63.0 42.7 128.1
150 158.1 0.0 346.8



#74
N-ethyl acetate
Concen: 1.349 ug/l
RT: 10.240 min Scan# 2768
Delta R.T. -0.080 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 43 Resp: 1301
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#

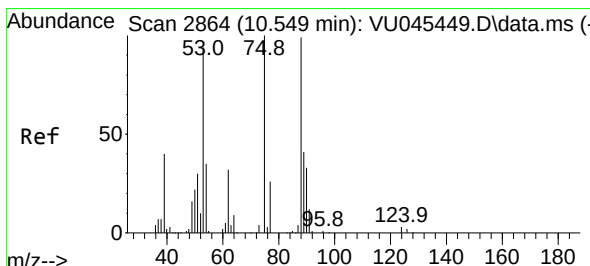
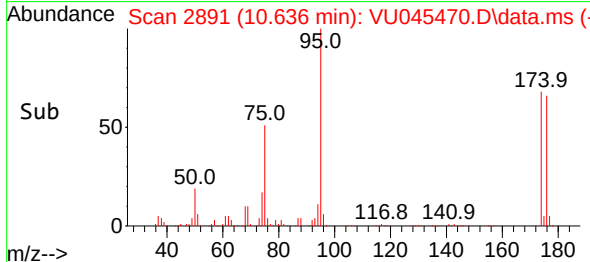
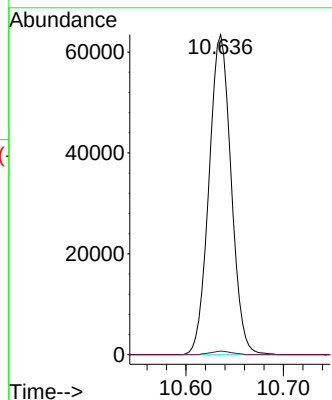
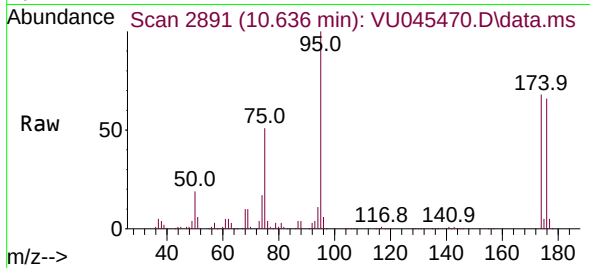




#76
1,2,3-Trichloropropane
Concen: 20.132 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. -0.193 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

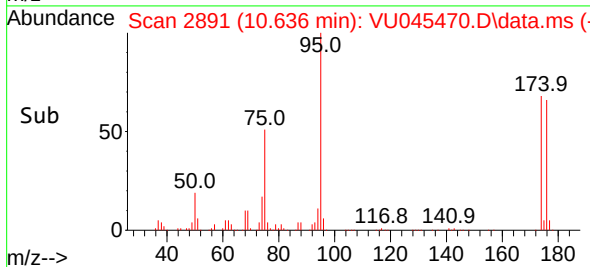
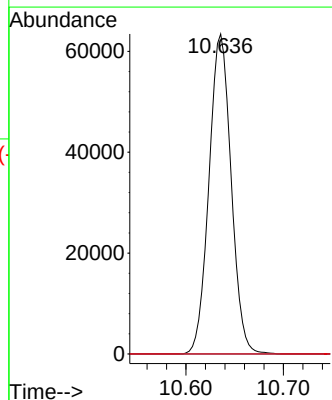
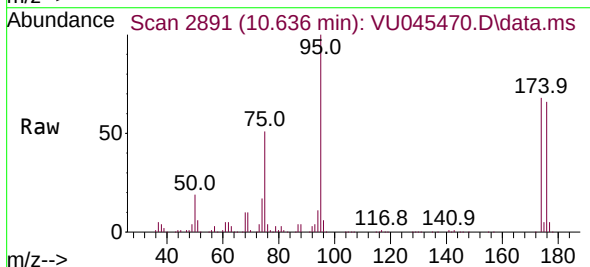
Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

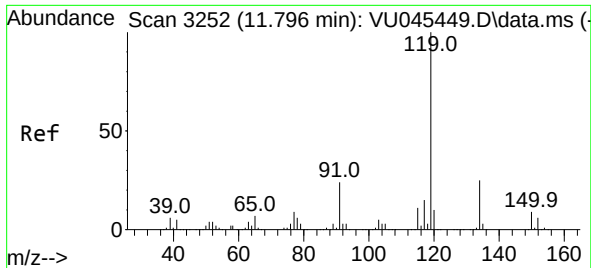
Tgt Ion: 75 Resp: 100326
Ion Ratio Lower Upper
75 100
77 1.1 17.1 51.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 55.899 ug/l
RT: 10.636 min Scan# 2891
Delta R.T. 0.087 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 75 Resp: 100326
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.4#
89 0.0 34.0 51.0#

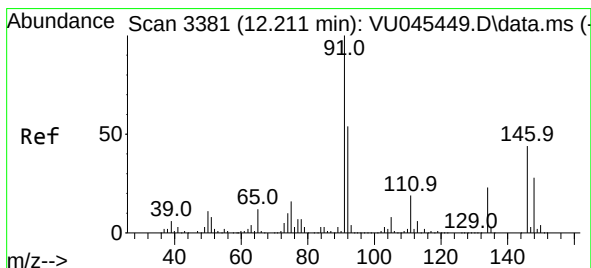
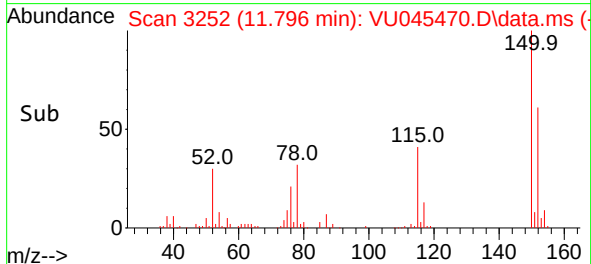
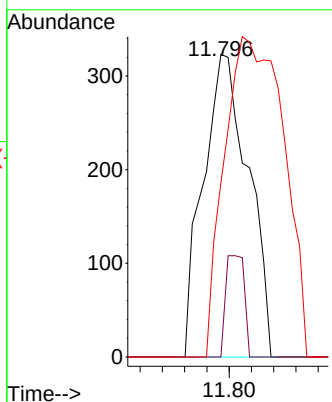
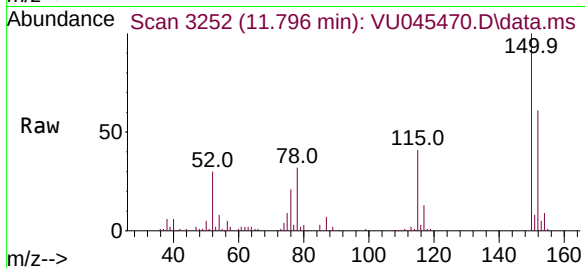




#86
p-Isopropyltoluene
Concen: 0.226 ug/l
RT: 11.796 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Instrument :
MSVOA_U
ClientSampleId :
MH-FFD

Tgt Ion:119 Resp: 454
Ion Ratio Lower Upper
119 100
134 13.7 12.7 38.1
91 139.0 12.2 36.4#



#89
n-Butylbenzene
Concen: 0.999 ug/l
RT: 12.214 min Scan# 3382
Delta R.T. 0.003 min
Lab File: VU045470.D
Acq: 29 Oct 2021 17:40

Tgt Ion: 91 Resp: 727
Ion Ratio Lower Upper
91 100
92 52.7 27.1 81.2
134 15.5 11.8 35.4

