

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU052623\
 Data File : VU054295.D
 Acq On : 26 May 2023 18:59
 Operator : JC/MD
 Sample : 02936-16
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 40BR-20230524

Quant Time: May 30 00:05:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U052523W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 26 06:40:51 2023
 Response via : Initial Calibration

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

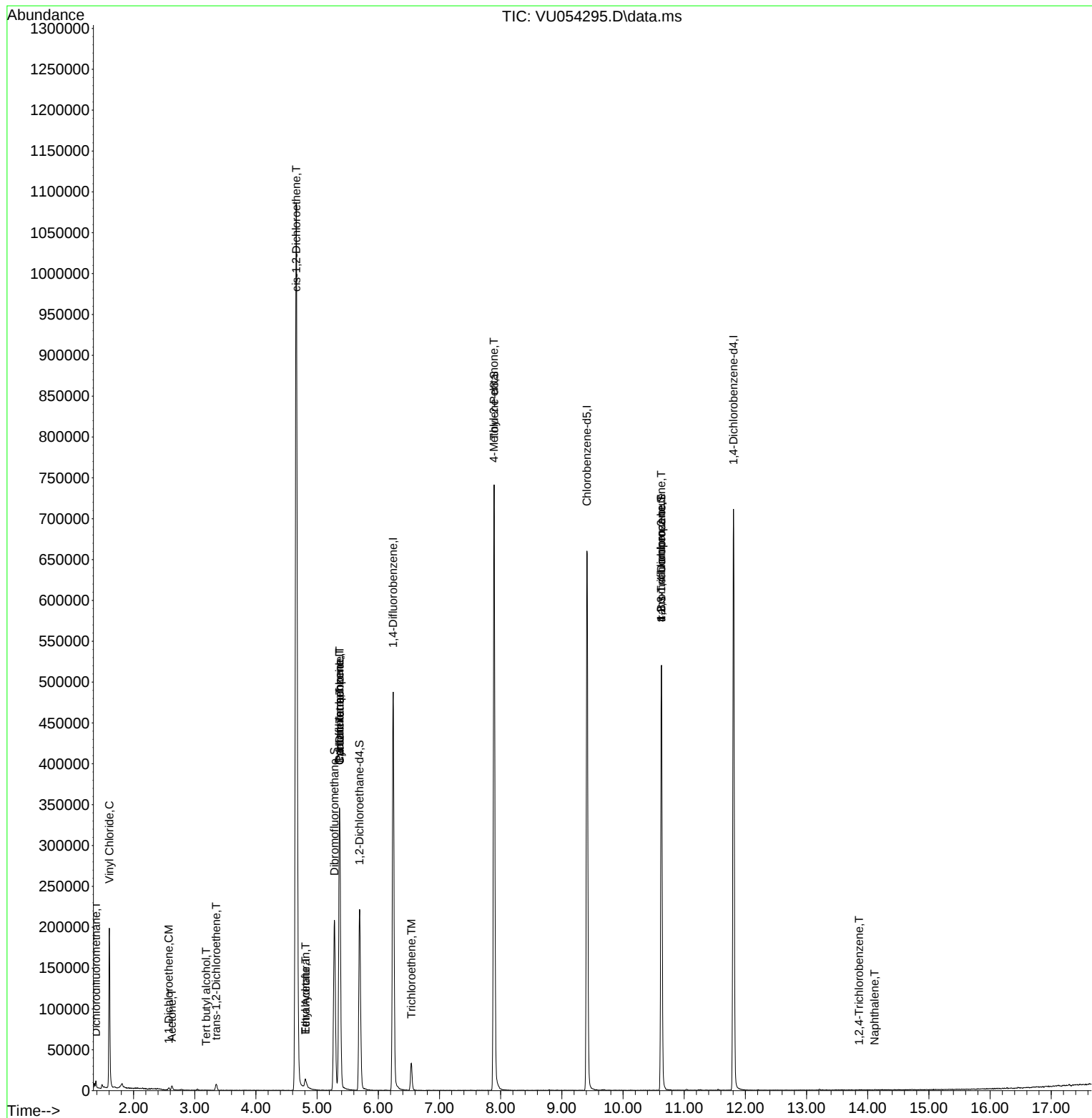
Internal Standards						
1) Pentafluorobenzene	5.366	168	252286	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.243	114	401570	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.411	117	384999	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.806	152	197852	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.694	65	164752	49.816	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.640%
35) Dibromofluoromethane	5.282	113	135960	52.575	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.140%
50) Toluene-d8	7.893	98	491512	49.969	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.940%
62) 4-Bromofluorobenzene	10.626	95	177027	46.415	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.840%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	4594	1.631	ug/l	98
4) Vinyl Chloride	1.604	62	144005	40.927	ug/l	99
11) Tert butyl alcohol	3.189	59	483	0.541	ug/l #	37
12) 1,1-Dichloroethene	2.575	96	884	0.326	ug/l #	80
16) Acetone	2.626	43	6183	3.262	ug/l	96
21) trans-1,2-Dichloroethene	3.350	96	3443	1.185	ug/l	88
27) cis-1,2-Dichloroethene	4.658	96	585616	181.194	ug/l	95
29) Tetrahydrofuran	4.809	42	885	0.561	ug/l #	26
31) Cyclohexane	5.369	56	4534	0.971	ug/l #	1
36) 1,1-Dichloropropene	5.366	75	18873	4.646	ug/l #	49
37) Ethyl Acetate	4.809	43	13852	2.798	ug/l #	80
38) Carbon Tetrachloride	5.369	117	24028	5.780	ug/l #	17
44) Trichloroethene	6.539	130	11840	3.656	ug/l	98
51) 4-Methyl-2-Pentanone	7.890	43	1790	0.393	ug/l #	1
76) 1,2,3-Trichloropropane	10.626	75	88610	15.345	ug/l #	45
81) trans-1,4-Dichloro-2-b...	10.626	75	88610	58.433	ug/l #	15
93) 1,2,4-Trichlorobenzene	13.861	180	62	1.657	ug/l #	12
95) Naphthalene	14.111	128	387	2.017	ug/l #	69

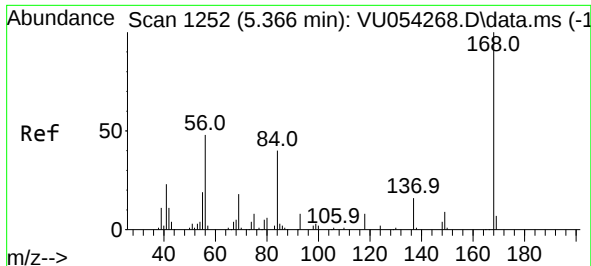
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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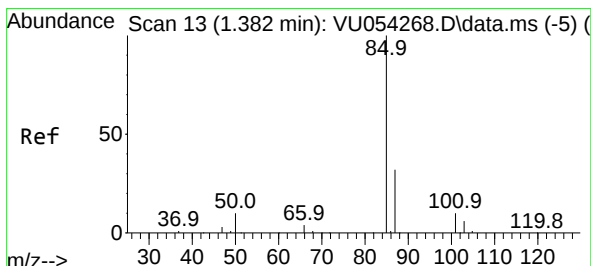
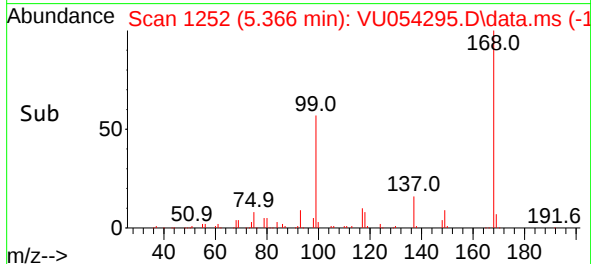
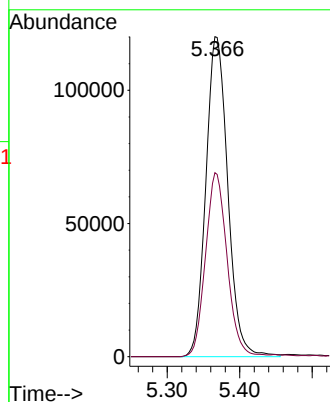
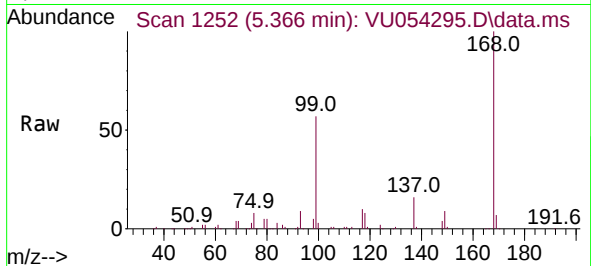




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.366 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

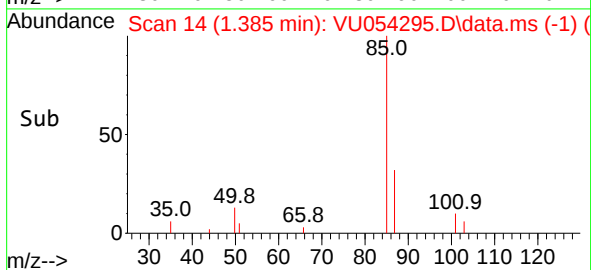
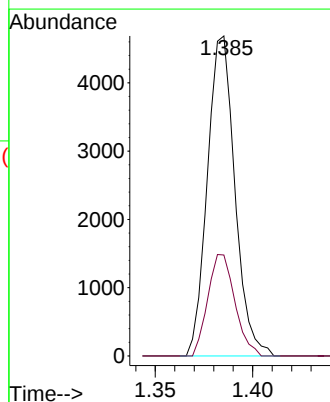
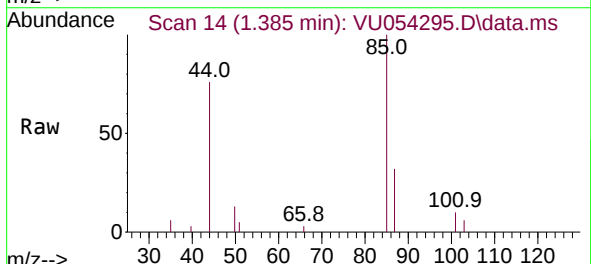
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MSVOA_U
ClientSampleId :
40BR-20230524

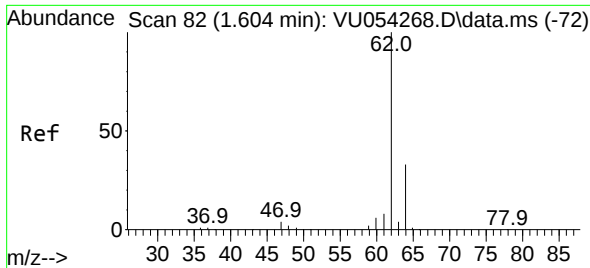
Tgt Ion:168 Resp: 252286
Ion Ratio Lower Upper
168 100
99 57.5 39.3 58.9



#2
Dichlorodifluoromethane
Concen: 1.631 ug/l
RT: 1.385 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion: 85 Resp: 4594
Ion Ratio Lower Upper
85 100
87 31.5 16.4 49.2

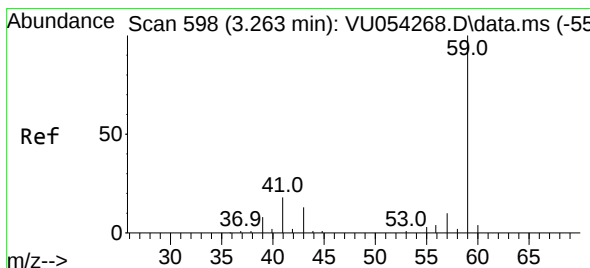
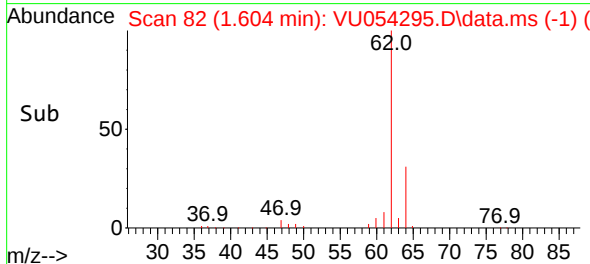
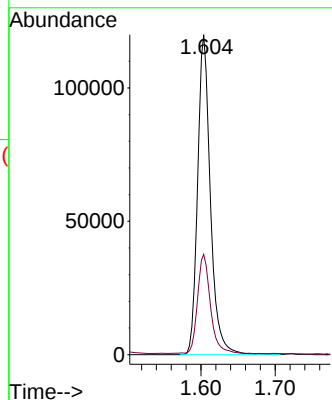
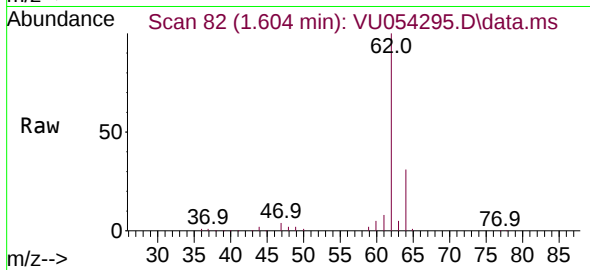




#4
 Vinyl Chloride
 Concen: 40.927 ug/l
 RT: 1.604 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VU054295.D
 Acq: 26 May 2023 18:59

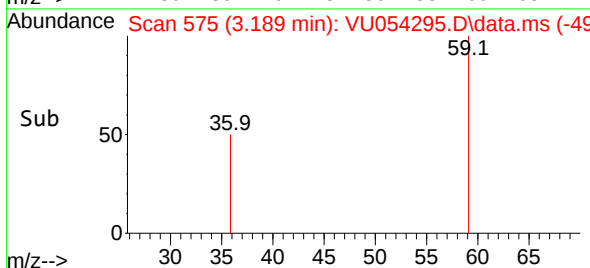
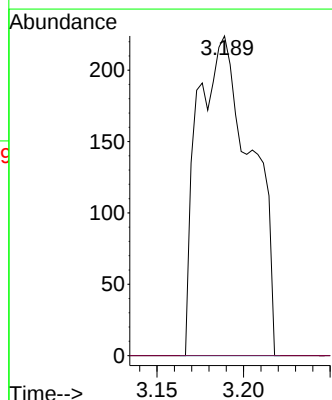
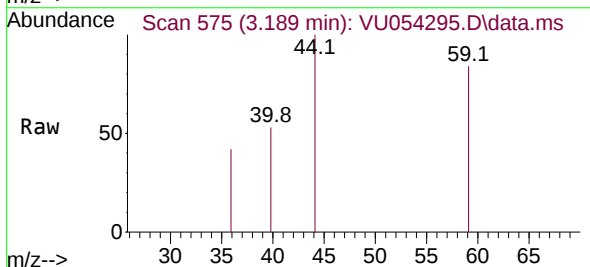
Instrument :
 MSVOA_U
 ClientSampleId :
 40BR-20230524

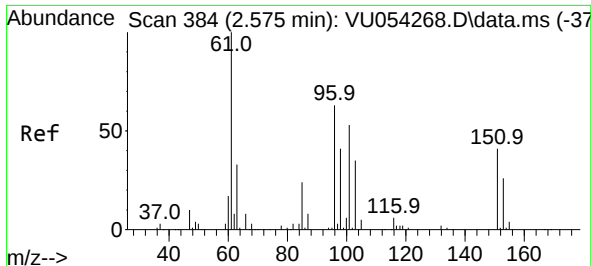
Tgt Ion: 62 Resp: 144005
 Ion Ratio Lower Upper
 62 100
 64 31.0 25.3 37.9



#11
 Tert butyl alcohol
 Concen: 0.541 ug/l
 RT: 3.189 min Scan# 575
 Delta R.T. -0.054 min
 Lab File: VU054295.D
 Acq: 26 May 2023 18:59

Tgt Ion: 59 Resp: 483
 Ion Ratio Lower Upper
 59 100
 57 0.0 30.6 45.8#

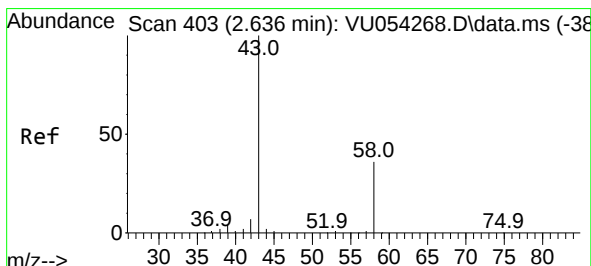
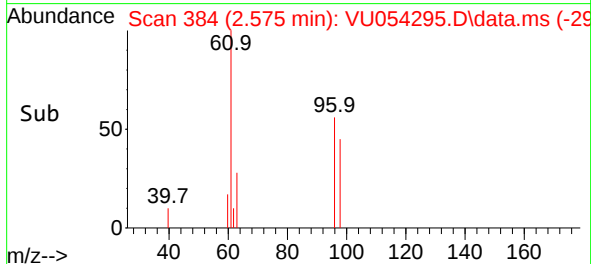
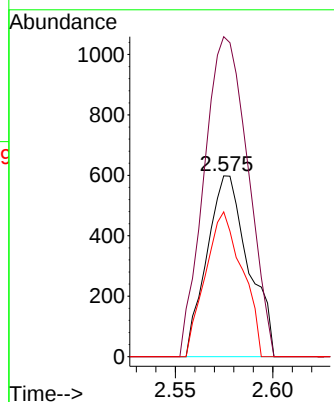
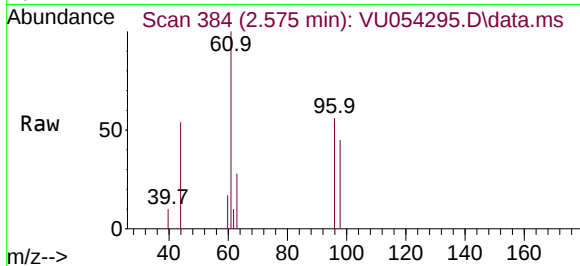




#12
1,1-Dichloroethene
Concen: 0.326 ug/l
RT: 2.575 min Scan# 384
Delta R.T. -0.000 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

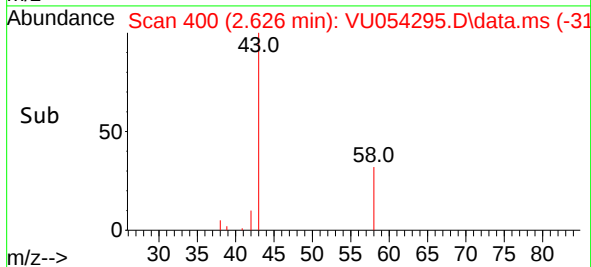
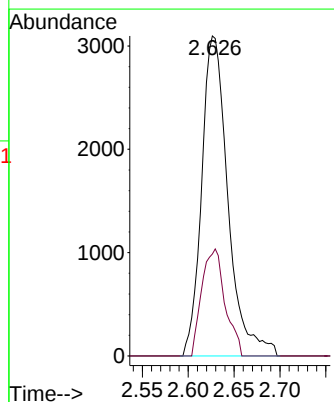
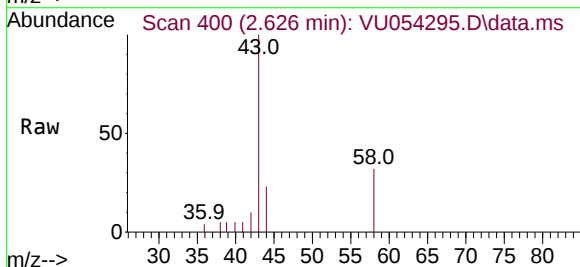
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524

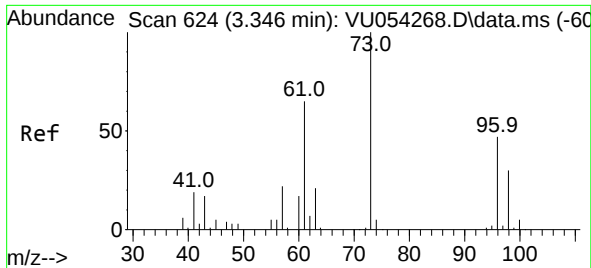
Tgt Ion: 96 Resp: 884
Ion Ratio Lower Upper
96 100
61 177.1 122.2 183.2
98 80.1 50.7 76.1#



#16
Acetone
Concen: 3.262 ug/l
RT: 2.626 min Scan# 400
Delta R.T. -0.010 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion: 43 Resp: 6183
Ion Ratio Lower Upper
43 100
58 31.9 27.5 41.3

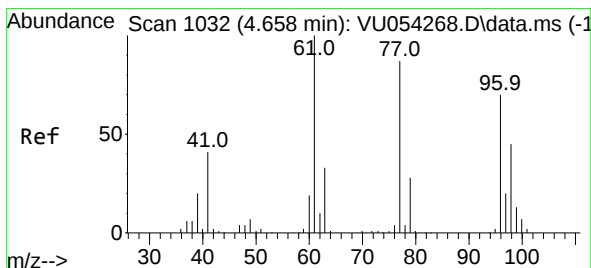
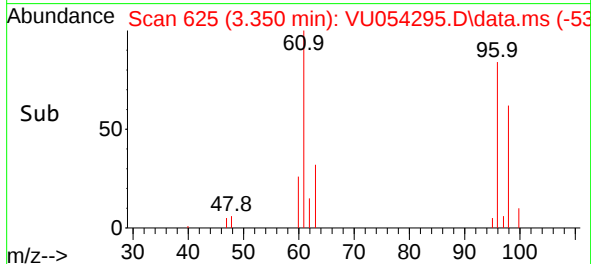
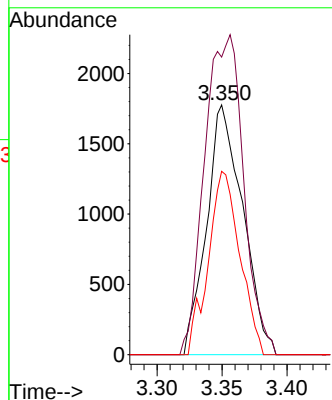
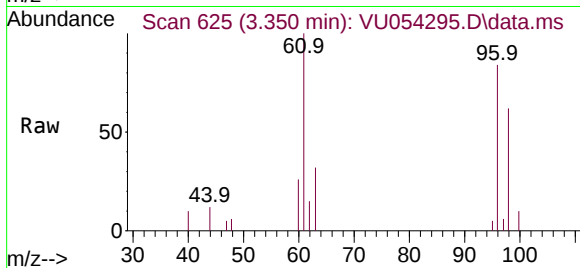




#21
trans-1,2-Dichloroethene
Concen: 1.185 ug/l
RT: 3.350 min Scan# 61
Delta R.T. 0.004 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

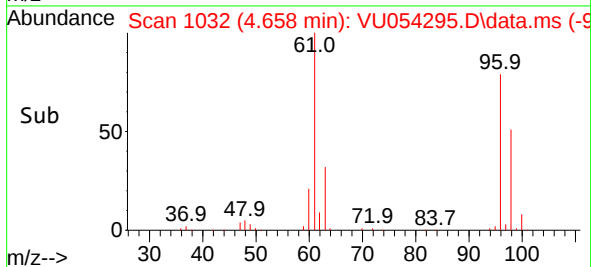
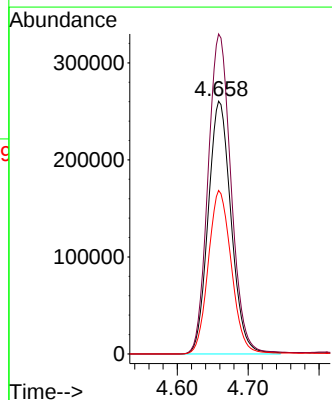
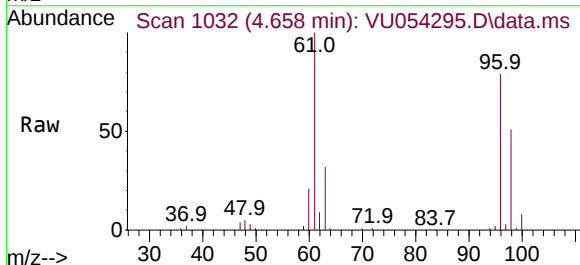
Instrument :
MSVOA_U
ClientSampleId :
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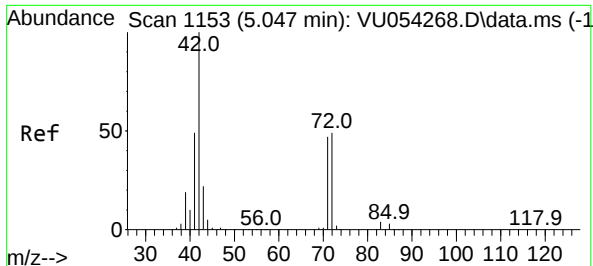
Tgt Ion: 96 Resp: 3443
Ion Ratio Lower Upper
96 100
61 119.2 106.1 159.1
98 73.4 50.8 76.2



#27
cis-1,2-Dichloroethene
Concen: 181.194 ug/l
RT: 4.658 min Scan# 1032
Delta R.T. 0.000 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion: 96 Resp: 585616
Ion Ratio Lower Upper
96 100
61 127.9 0.0 271.6
98 65.1 0.0 128.2





#29

Tetrahydrofuran

Concen: 0.561 ug/l

RT: 4.809 min Scan# 1079

Delta R.T. -0.238 min

Lab File: VU054295.D

Acq: 26 May 2023 18:59

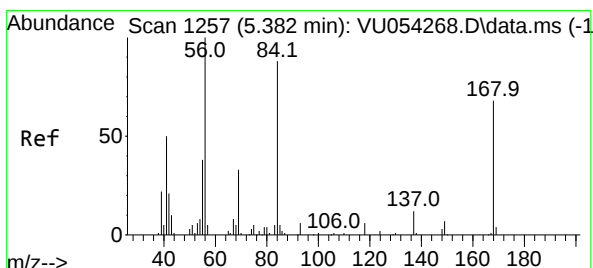
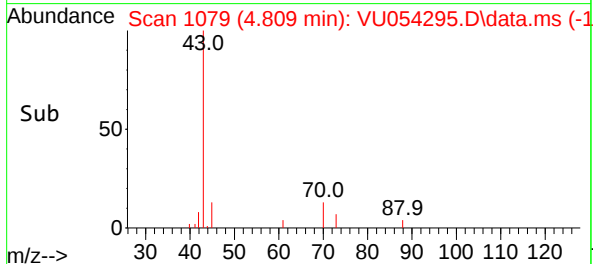
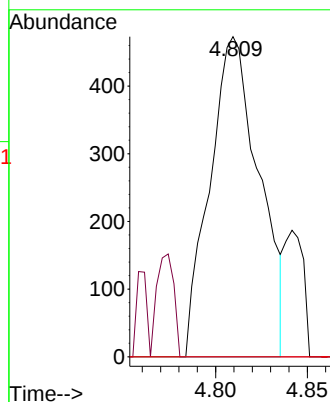
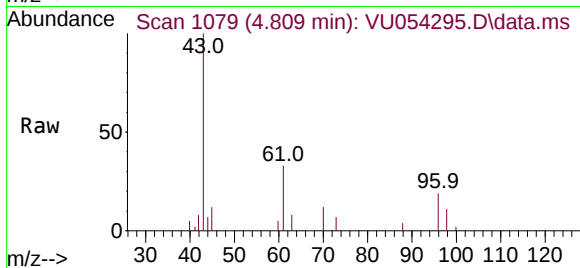
Instrument :

MSVOA_U

ClientSampleId :

40BR-20230524

Tgt Ion:	42	Resp:	885
Ion	Ratio	Lower	Upper
42	100		
72	0.0	42.6	63.8#
71	0.0	40.3	60.5#



#31

Cyclohexane

Concen: 0.971 ug/l

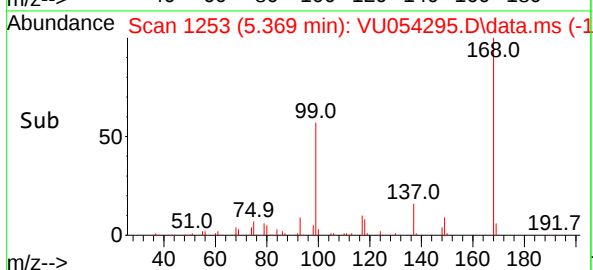
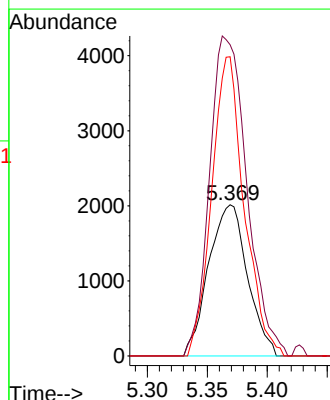
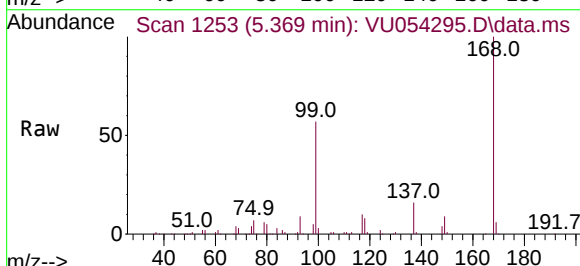
RT: 5.369 min Scan# 1253

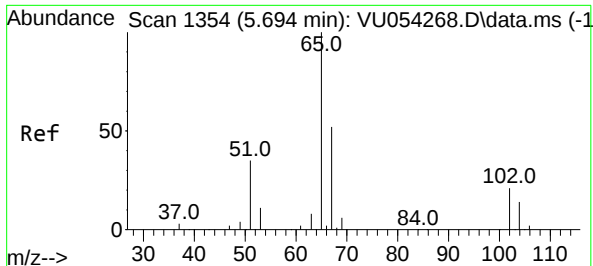
Delta R.T. -0.013 min

Lab File: VU054295.D

Acq: 26 May 2023 18:59

Tgt Ion:	56	Resp:	4534
Ion	Ratio	Lower	Upper
56	100		
69	205.8	27.8	41.8#
84	197.8	74.2	111.4#





#33

1,2-Dichloroethane-d4

Concen: 49.816 ug/l

RT: 5.694 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU054295.D

Acq: 26 May 2023 18:59

Instrument :

MSVOA_U

ClientSampleId :

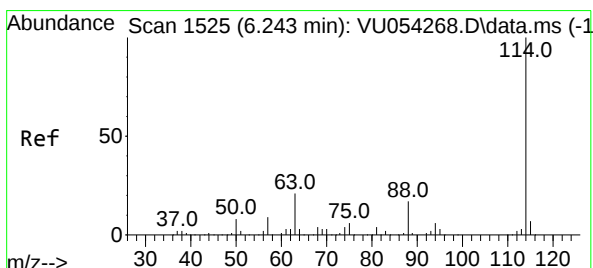
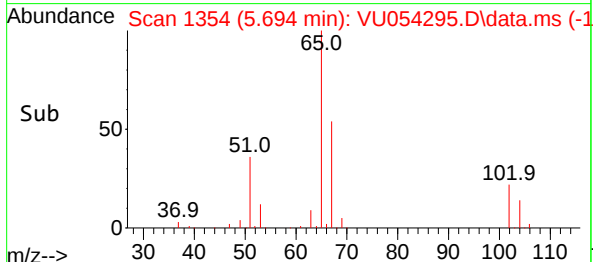
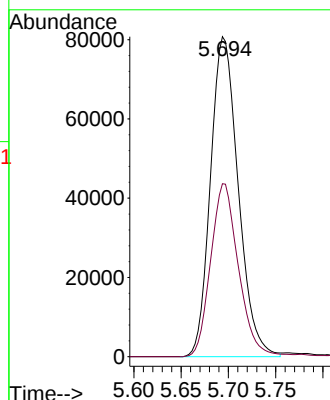
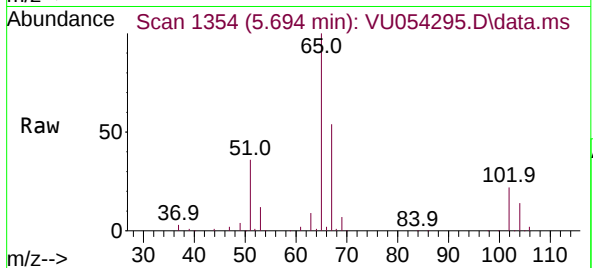
40BR-20230524

Tgt Ion: 65 Resp: 164752

Ion Ratio Lower Upper

65 100

67 54.3 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.243 min Scan# 1525

Delta R.T. 0.000 min

Lab File: VU054295.D

Acq: 26 May 2023 18:59

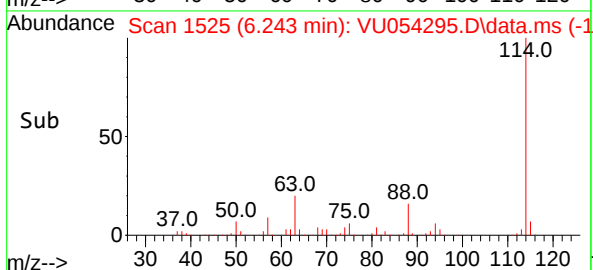
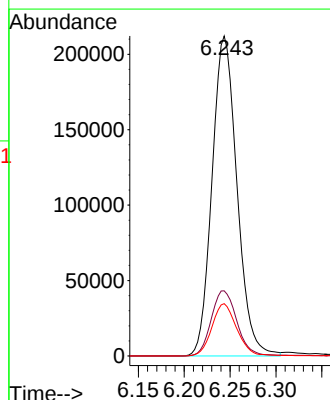
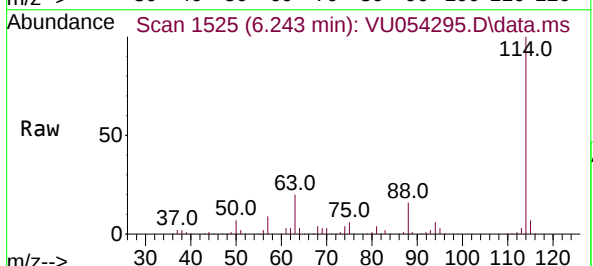
Tgt Ion: 114 Resp: 401570

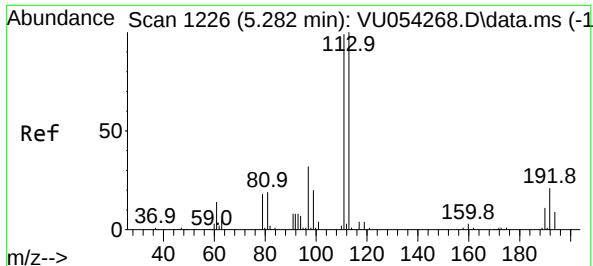
Ion Ratio Lower Upper

114 100

63 20.4 0.0 37.8

88 16.3 0.0 29.2

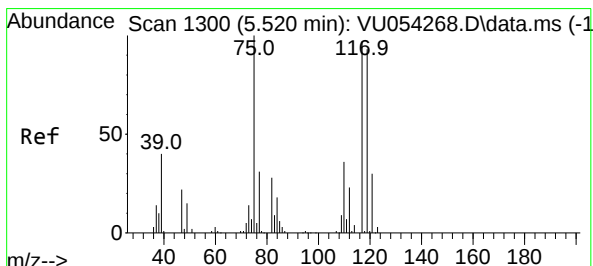
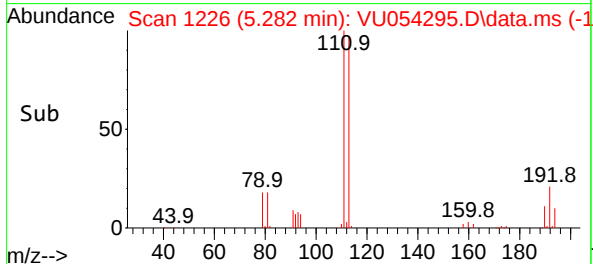
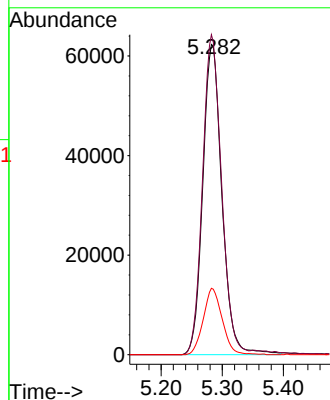
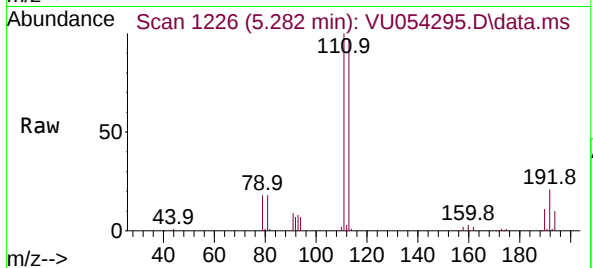




#35
Dibromofluoromethane
Concen: 52.575 ug/l
RT: 5.282 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

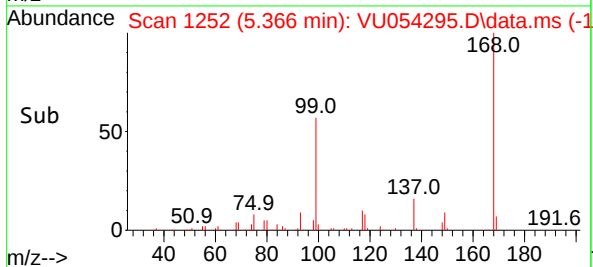
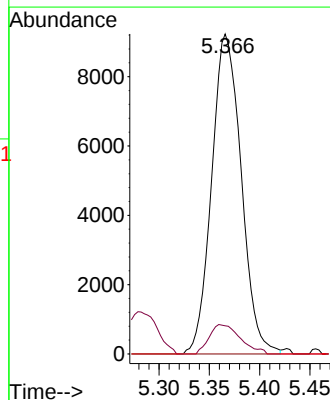
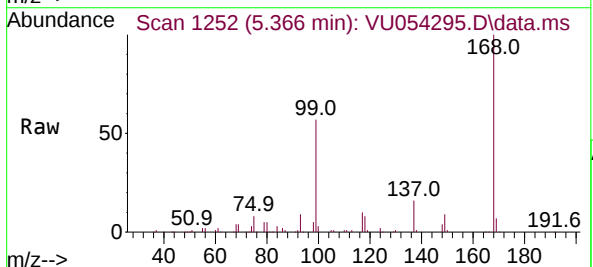
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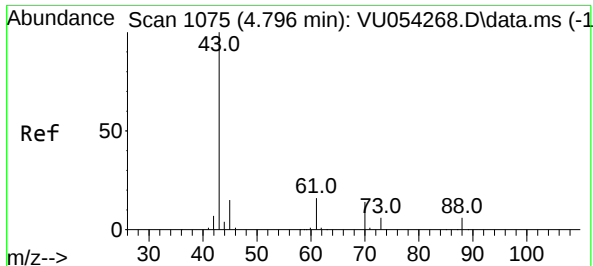
Tgt Ion:113 Resp: 135960
Ion Ratio Lower Upper
113 100
111 101.9 82.1 123.1
192 21.1 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.646 ug/l
RT: 5.366 min Scan# 1252
Delta R.T. -0.154 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion: 75 Resp: 18873
Ion Ratio Lower Upper
75 100
110 9.7 18.4 55.2#
77 0.0 25.1 37.7#

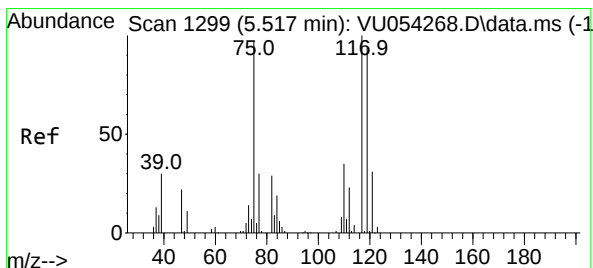
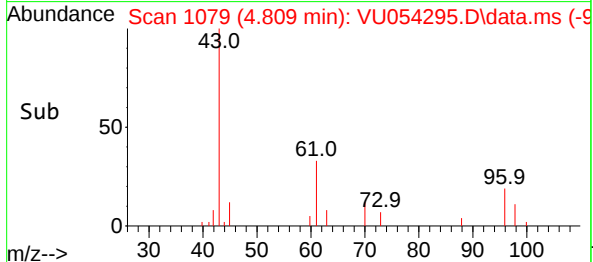
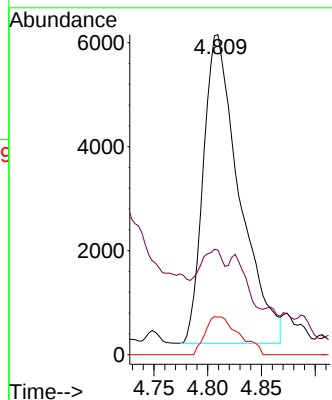
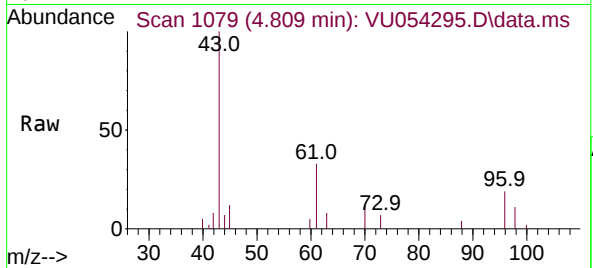




#37
Ethyl Acetate
Concen: 2.798 ug/l
RT: 4.809 min Scan# 1075
Delta R.T. 0.013 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

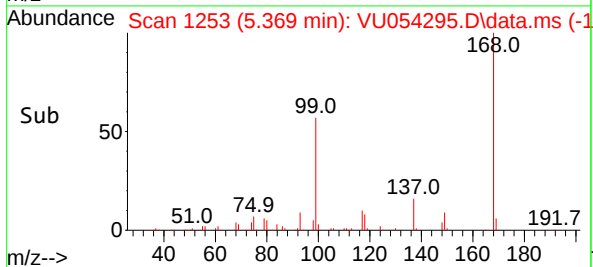
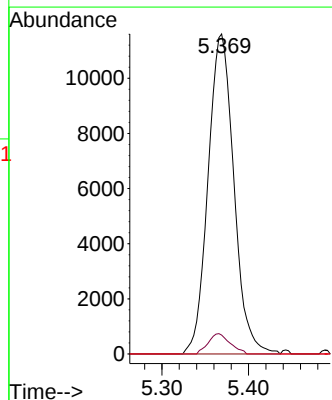
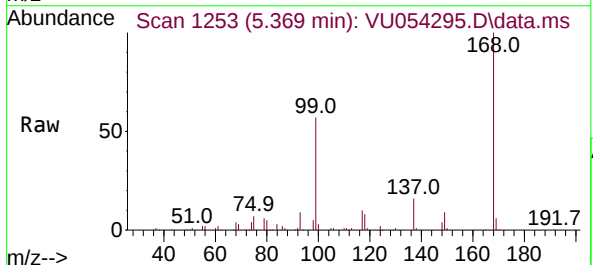
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524

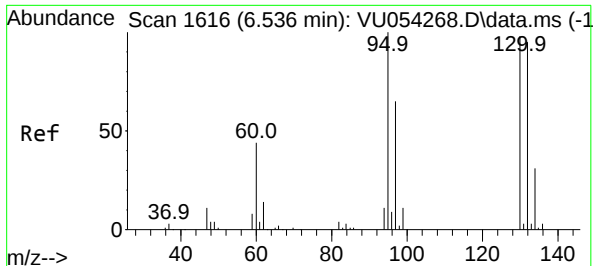
Tgt Ion: 43 Resp: 13852
Ion Ratio Lower Upper
43 100
61 0.0 9.5 14.3#
70 11.5 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 5.780 ug/l
RT: 5.369 min Scan# 1253
Delta R.T. -0.148 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion: 117 Resp: 24028
Ion Ratio Lower Upper
117 100
119 5.9 76.8 115.2#
121 0.0 24.7 37.1#

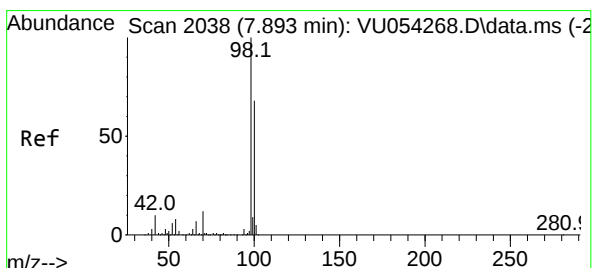
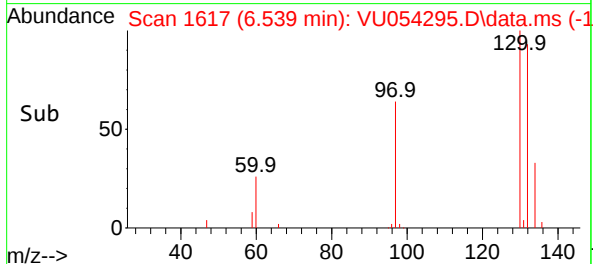
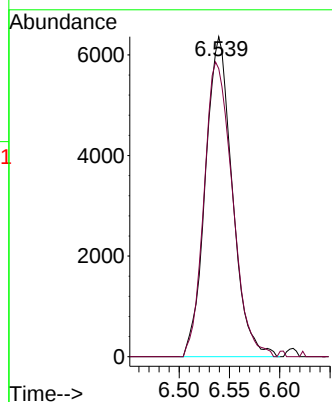
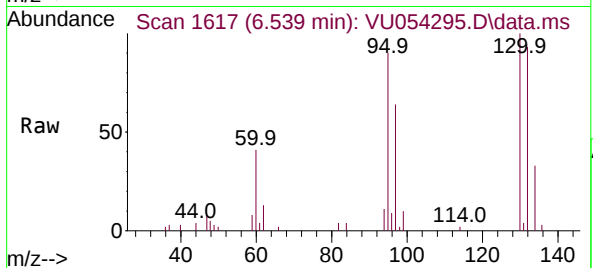




#44
Trichloroethene
Concen: 3.656 ug/l
RT: 6.539 min Scan# 1617
Delta R.T. 0.003 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

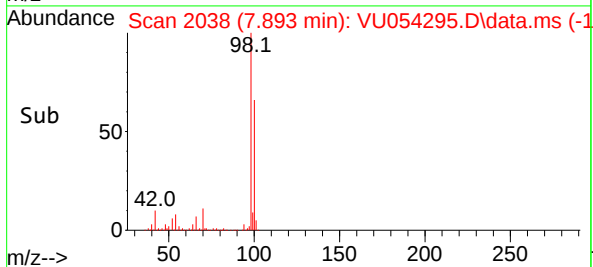
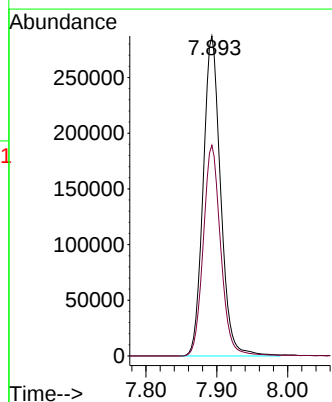
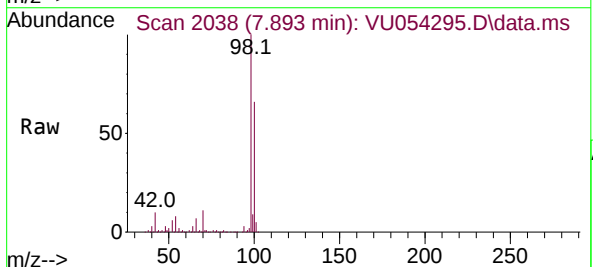
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524

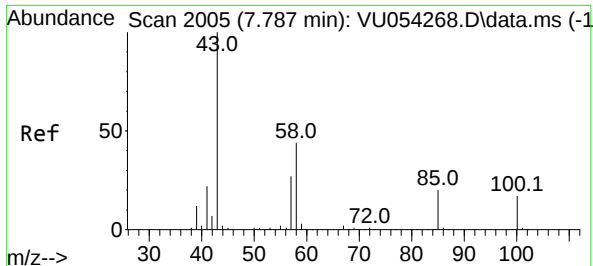
Tgt Ion:130 Resp: 11840
Ion Ratio Lower Upper
130 100
95 90.0 0.0 184.6



#50
Toluene-d8
Concen: 49.969 ug/l
RT: 7.893 min Scan# 2038
Delta R.T. -0.000 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion: 98 Resp: 491512
Ion Ratio Lower Upper
98 100
100 65.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.393 ug/l

RT: 7.890 min Scan# 2005

Delta R.T. 0.103 min

Lab File: VU054295.D

Acq: 26 May 2023 18:59

Instrument :

MSVOA_U

ClientSampleId :

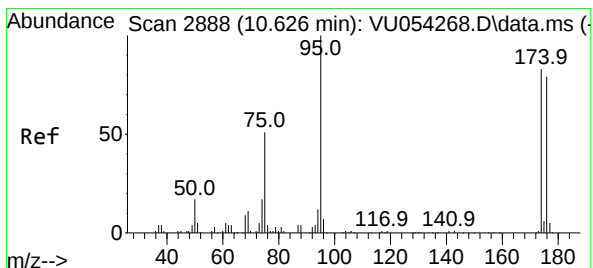
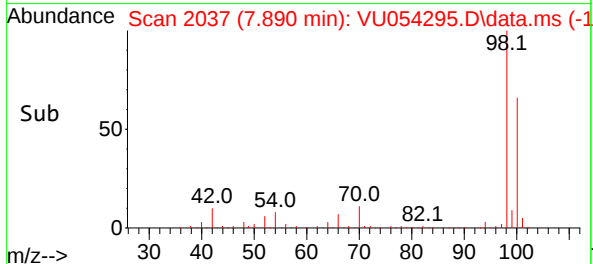
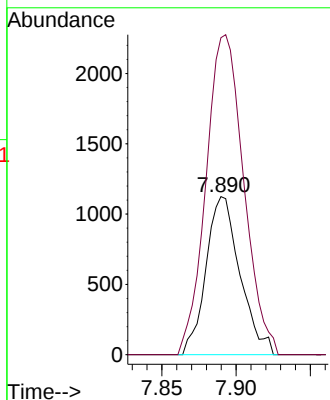
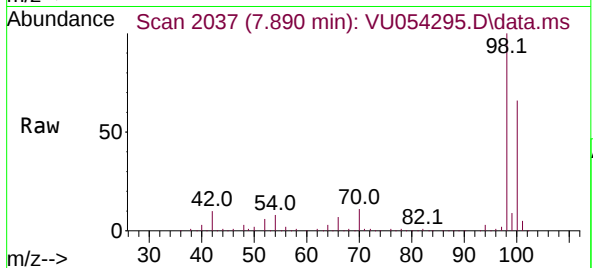
40BR-20230524

Tgt Ion: 43 Resp: 1790

Ion Ratio Lower Upper

43 100

58 224.5 34.7 52.1#



#62

4-Bromofluorobenzene

Concen: 46.415 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.000 min

Lab File: VU054295.D

Acq: 26 May 2023 18:59

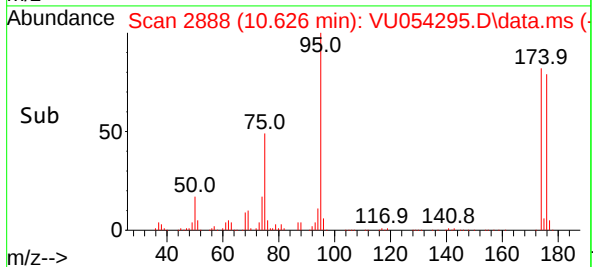
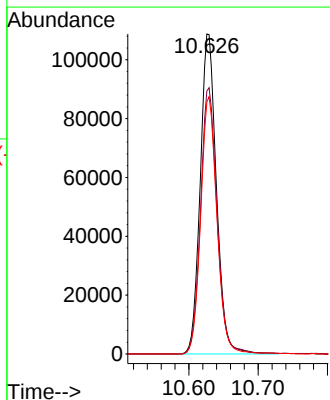
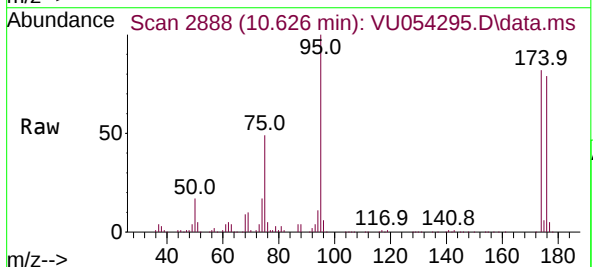
Tgt Ion: 95 Resp: 177027

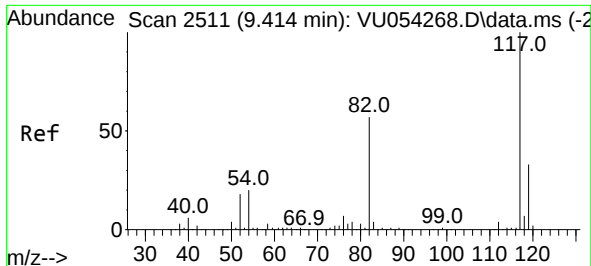
Ion Ratio Lower Upper

95 100

174 84.5 0.0 182.0

176 80.4 0.0 177.8

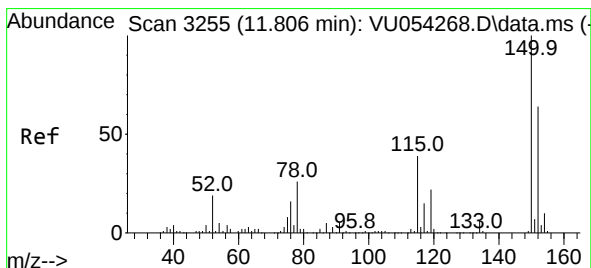
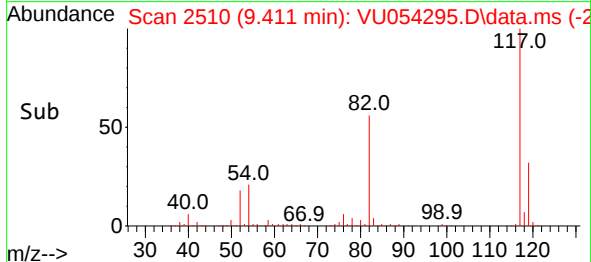
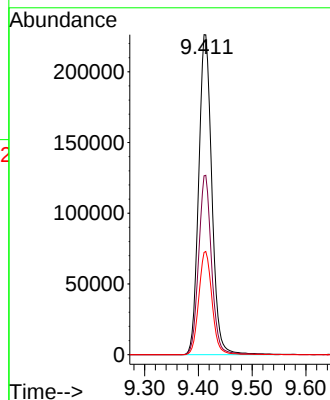
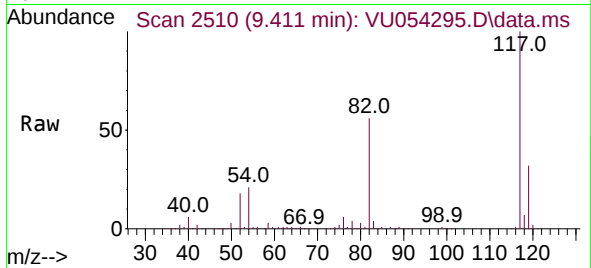




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.411 min Scan# 2511
Delta R.T. -0.003 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

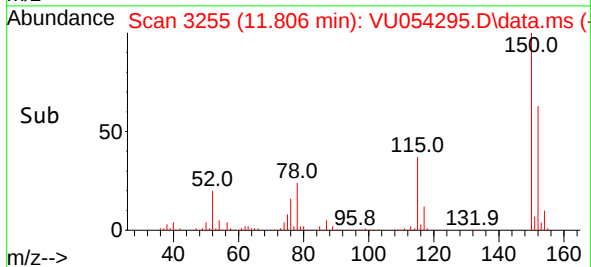
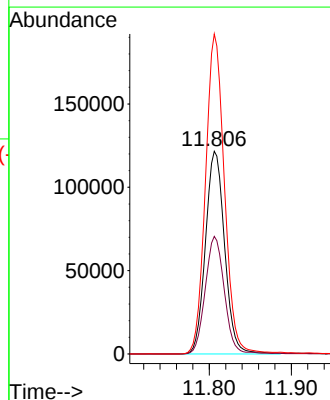
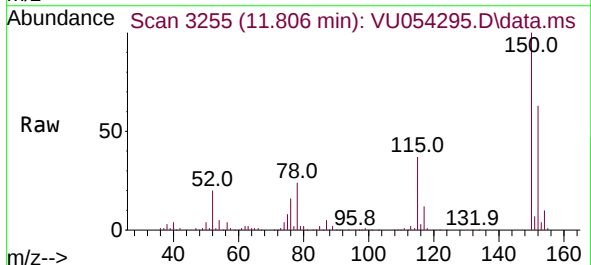
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524

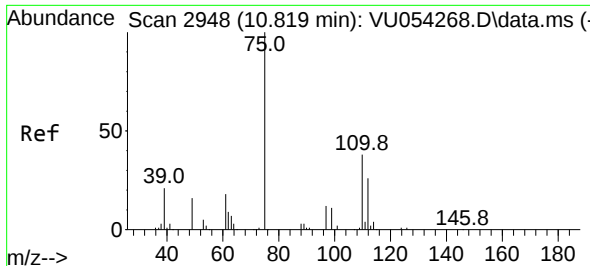
Tgt Ion:117 Resp: 384999
Ion Ratio Lower Upper
117 100
82 55.9 41.7 62.5
119 32.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.806 min Scan# 3255
Delta R.T. -0.000 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion:152 Resp: 197852
Ion Ratio Lower Upper
152 100
115 57.7 37.0 110.9
150 155.5 0.0 342.2

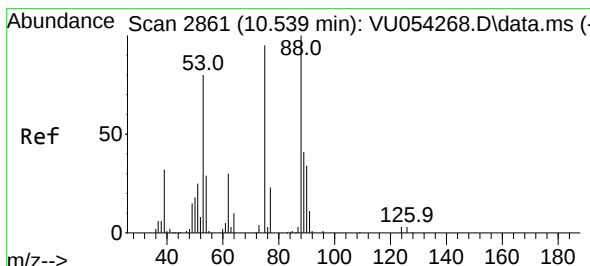
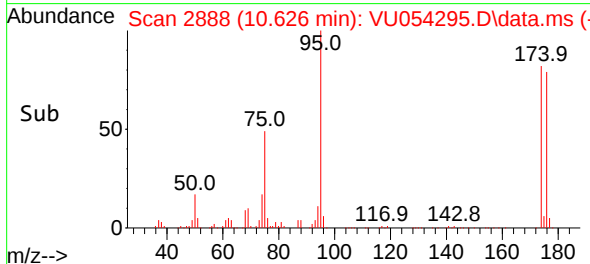
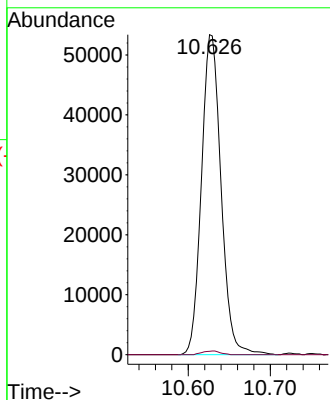
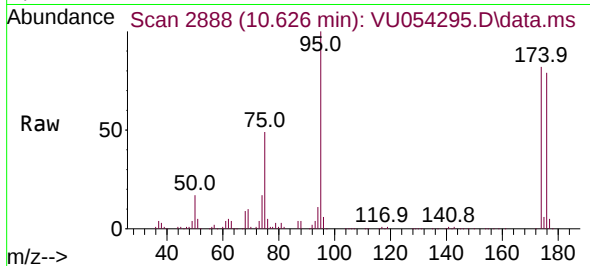




#76
1,2,3-Trichloropropane
Concen: 15.345 ug/l
RT: 10.626 min Scan# 21
Delta R.T. -0.193 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

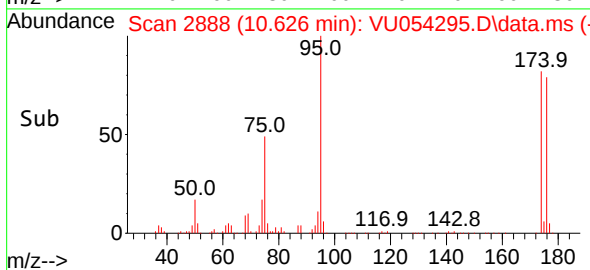
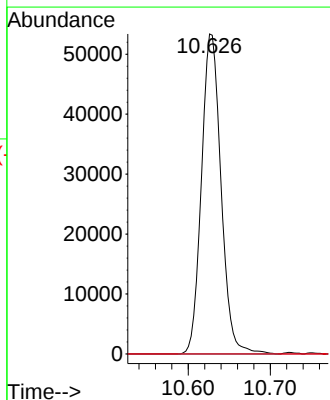
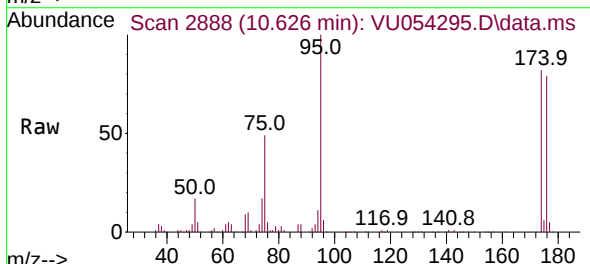
Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524

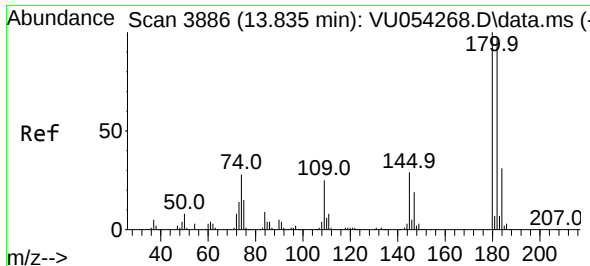
Tgt Ion: 75 Resp: 88610
Ion Ratio Lower Upper
75 100
77 1.0 15.8 47.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.433 ug/l
RT: 10.626 min Scan# 2888
Delta R.T. 0.087 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion: 75 Resp: 88610
Ion Ratio Lower Upper
75 100
53 0.0 69.2 103.8#
89 0.0 37.0 55.6#

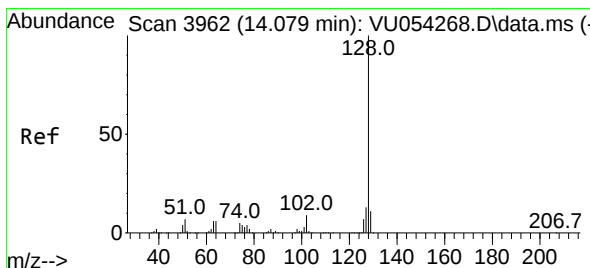
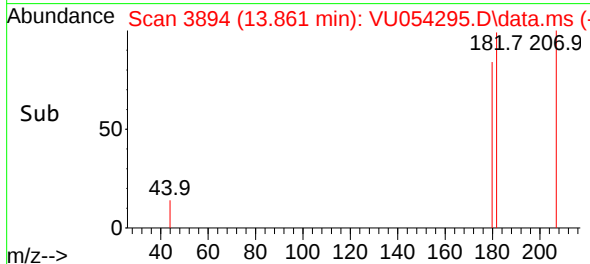
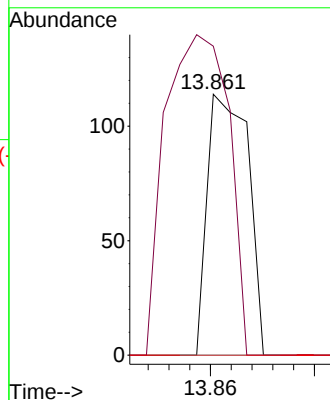
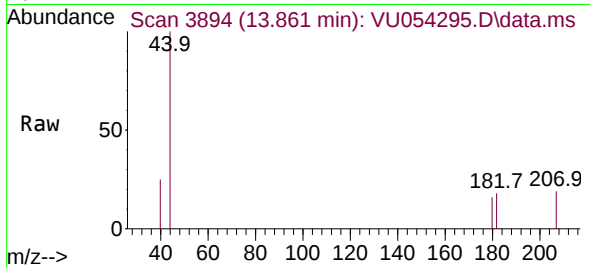




#93
1,2,4-Trichlorobenzene
Concen: 1.657 ug/l
RT: 13.861 min Scan# 3894
Delta R.T. 0.026 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Instrument :
MSVOA_U
ClientSampleId :
40BR-20230524

Tgt Ion:180 Resp: 62
Ion Ratio Lower Upper
180 100
182 191.9 47.9 143.6#
145 0.0 14.0 41.9#



#95
Naphthalene
Concen: 2.017 ug/l
RT: 14.111 min Scan# 3972
Delta R.T. 0.032 min
Lab File: VU054295.D
Acq: 26 May 2023 18:59

Tgt Ion:128 Resp: 387
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#

