

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121523\
 Data File : VD077909.D
 Acq On : 15 Dec 2023 17:45
 Operator : RP/MD
 Sample : 05805-03
 Misc : 5.02G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-04-12122023

Quant Time: Dec 16 11:34:00 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D120823S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 14:48:10 2023
 Response via : Initial Calibration

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

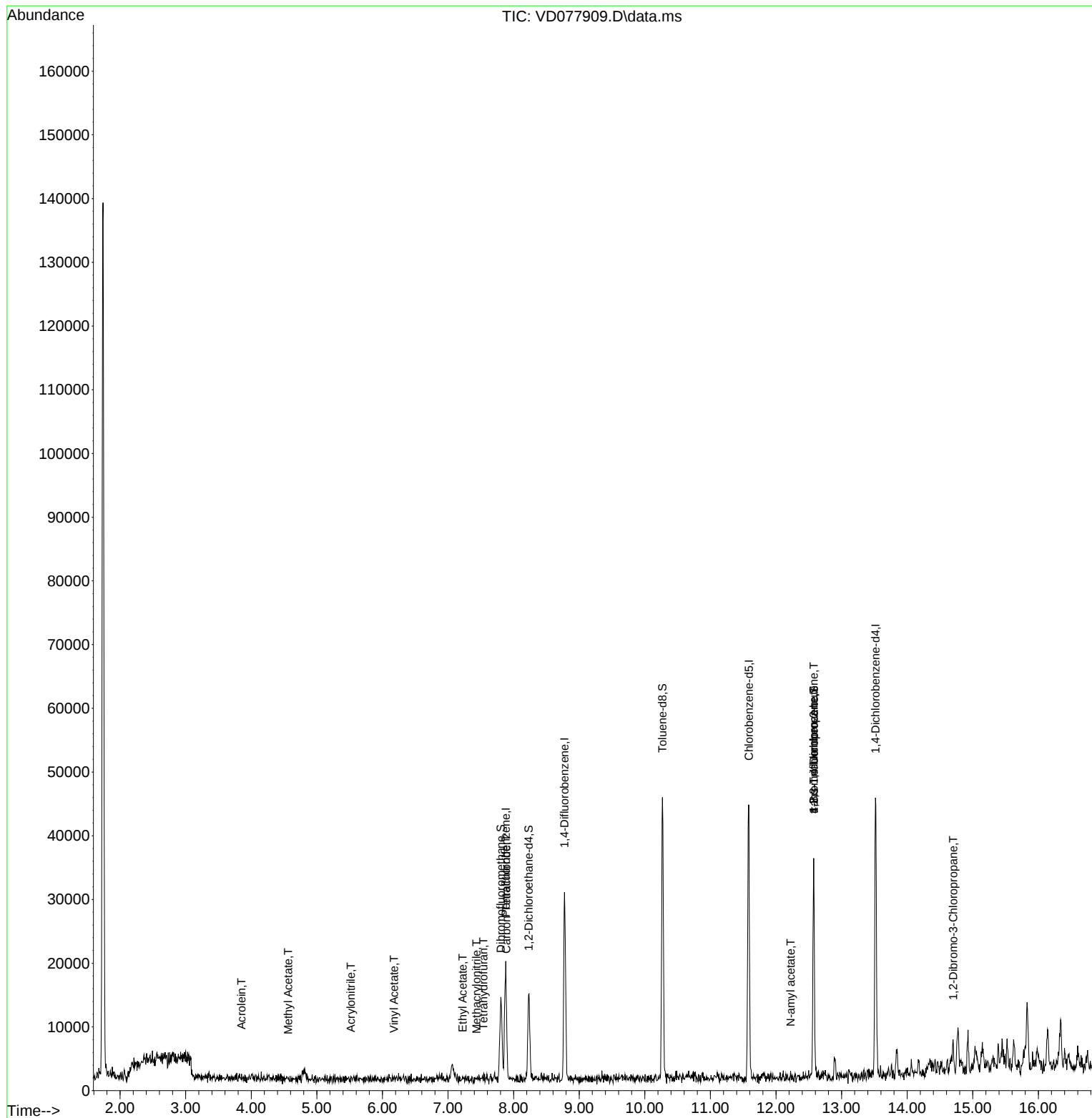
Internal Standards						
1) Pentafluorobenzene	7.881	168	13266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	25142	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.587	117	26505	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	11540	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	10209	65.308	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 130.620%			
35) Dibromofluoromethane	7.805	113	9253	52.541	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.080%			
50) Toluene-d8	10.269	98	31006	43.958	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 87.920%			
62) 4-Bromofluorobenzene	12.575	95	9952	47.192	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.380%			
Target Compounds						Qvalue
13) Acrolein	3.852	56	65	3.931	ug/l #	15
15) Acrylonitrile	5.516	53	166	4.889	ug/l #	18
16) Acetone	4.028	43	338	Below Cal	#	32
18) Methyl Acetate	4.564	43	163	1.324	ug/l #	42
20) Methylene Chloride	4.799	84	472	Below Cal	#	54
23) Vinyl Acetate	6.175	43	239	1.068	ug/l #	63
25) 2-Butanone	7.081	43	108	Below Cal	#	37
29) Tetrahydrofuran	7.540	42	151	6.066	ug/l #	23
37) Ethyl Acetate	7.222	43	136	1.238	ug/l #	62
38) Carbon Tetrachloride	7.887	117	698	2.485	ug/l #	11
41) Methacrylonitrile	7.434	41	73	1.308	ug/l #	1
74) N-amyl acetate	12.222	43	189	1.099	ug/l #	35
76) 1,2,3-Trichloropropane	12.575	75	5316	53.040	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	5316	107.464	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.704	75	56	1.586	ug/l #	1

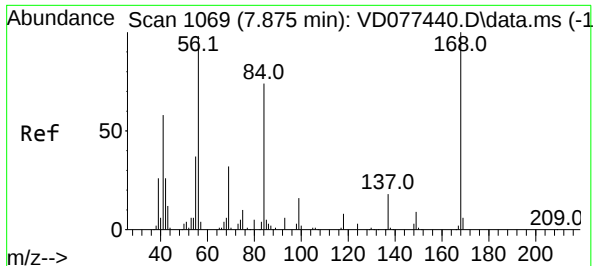
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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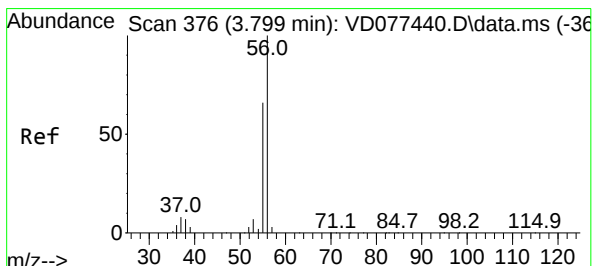
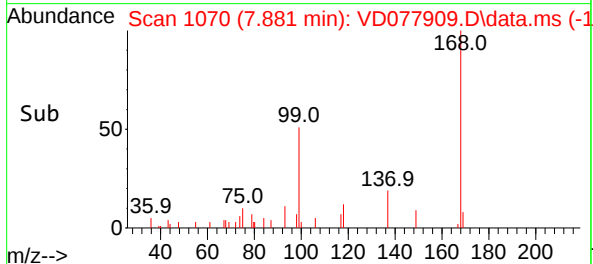
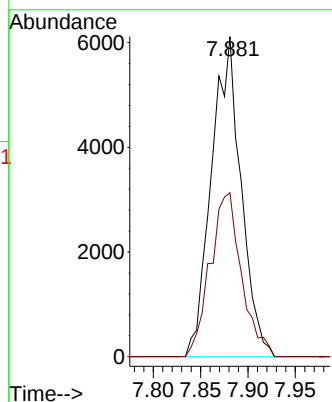
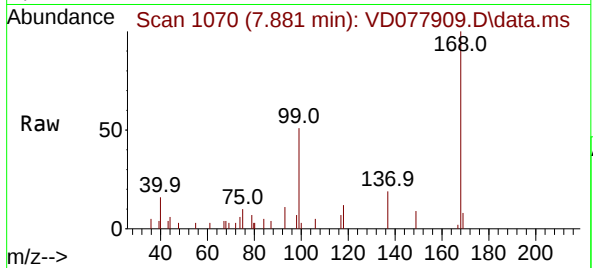




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

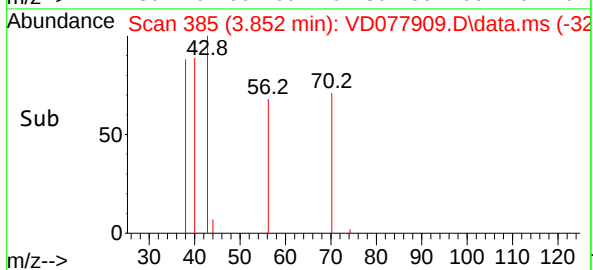
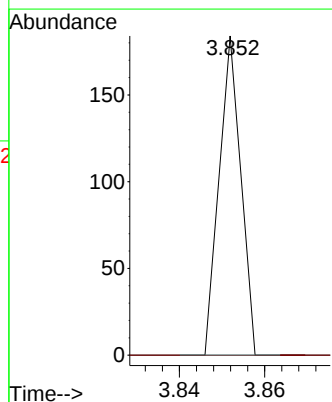
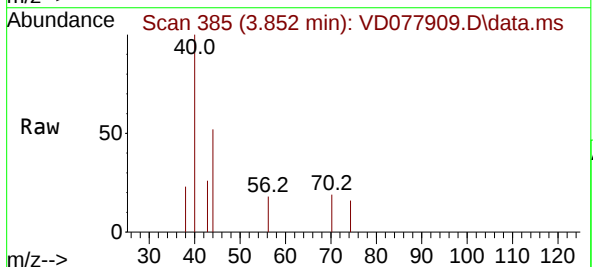
Instrument :
MSVOA_D
ClientSampleId :
HR-04-12122023

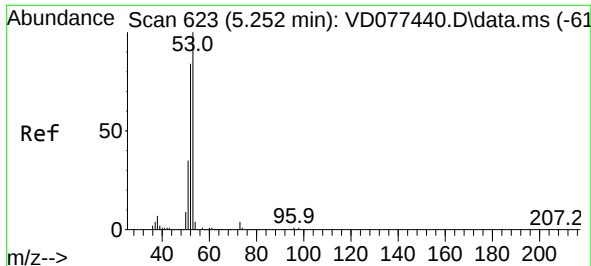
Tgt Ion:168 Resp: 13266
Ion Ratio Lower Upper
168 100
99 51.3 36.7 55.1



#13
Acrolein
Concen: 3.931 ug/l
RT: 3.852 min Scan# 385
Delta R.T. 0.053 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Tgt Ion: 56 Resp: 65
Ion Ratio Lower Upper
56 100
55 0.0 55.1 82.7#

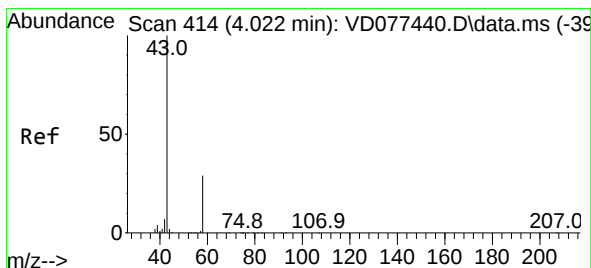
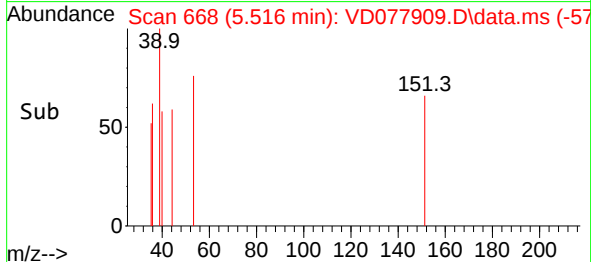
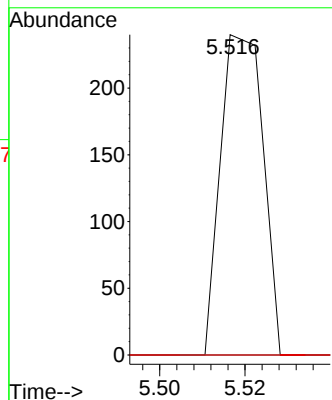
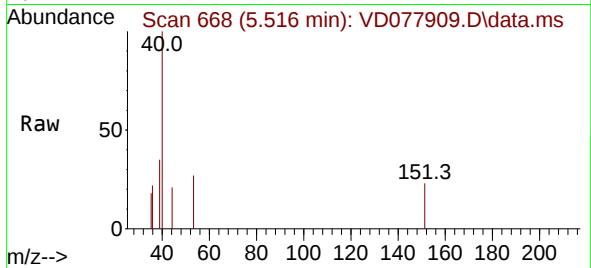




#15
Acrylonitrile
Concen: 4.889 ug/l
RT: 5.516 min Scan# 61
Delta R.T. 0.264 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

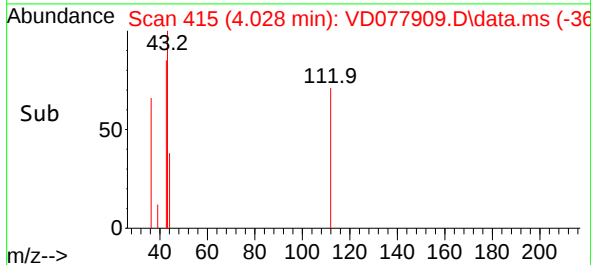
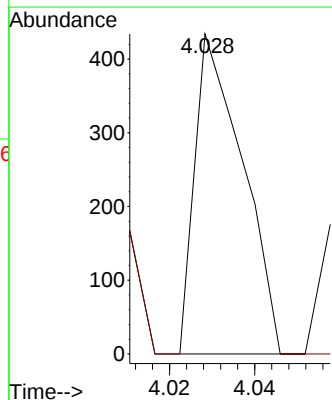
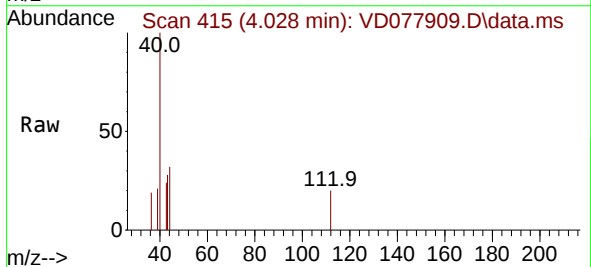
Instrument :
MSVOA_D
ClientSampleId :
HR-04-12122023

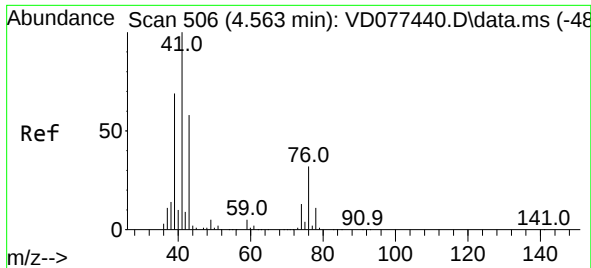
Tgt Ion: 53 Resp: 166
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 0.0 28.3 42.5#



#16
Acetone
Concen: Below Cal
RT: 4.028 min Scan# 415
Delta R.T. 0.006 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Tgt Ion: 43 Resp: 338
Ion Ratio Lower Upper
43 100
58 0.0 34.7 52.1#

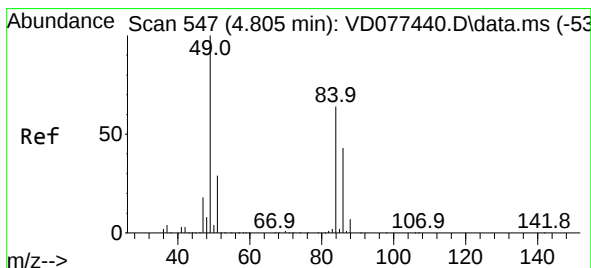
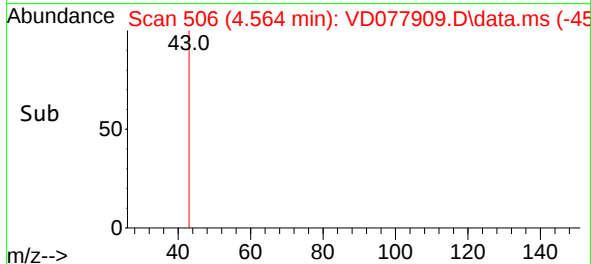
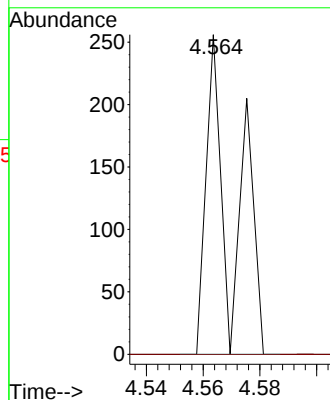
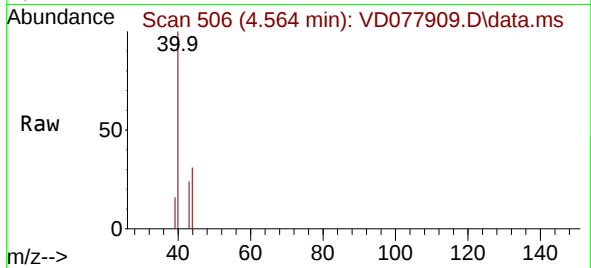




#18
Methyl Acetate
Concen: 1.324 ug/l
RT: 4.564 min Scan# 506
Delta R.T. 0.001 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

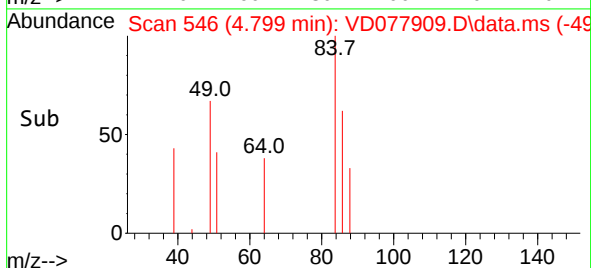
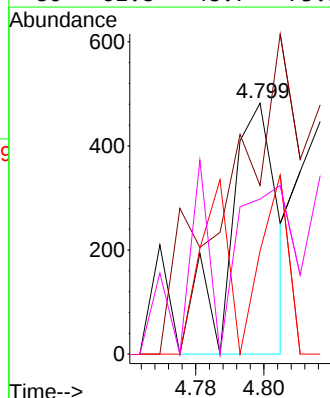
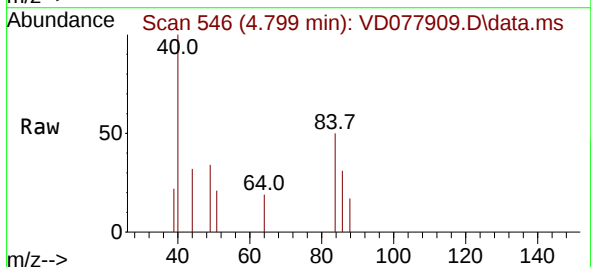
Instrument :
MSVOA_D
ClientSampleId :
HR-04-12122023

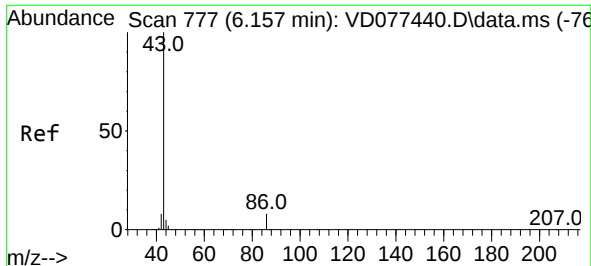
Tgt Ion: 43 Resp: 163
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.799 min Scan# 546
Delta R.T. -0.006 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Tgt Ion: 84 Resp: 472
Ion Ratio Lower Upper
84 100
49 9.1 71.4 107.2#
51 41.1 24.5 36.7#
86 61.8 48.7 73.1

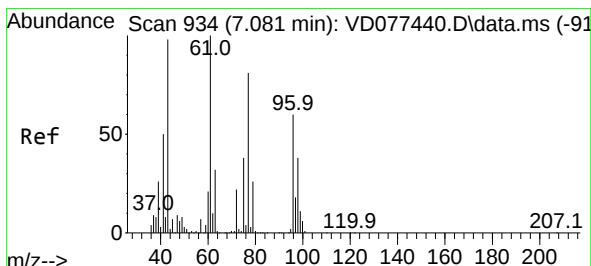
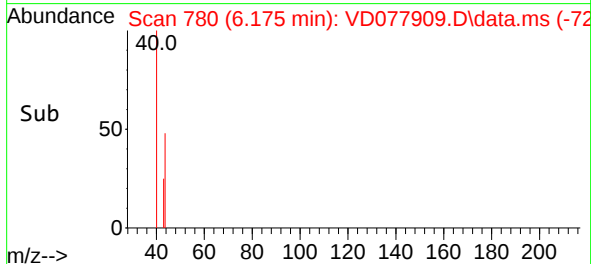
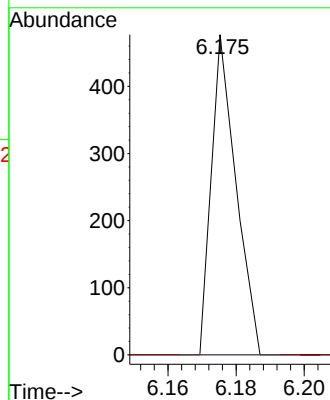
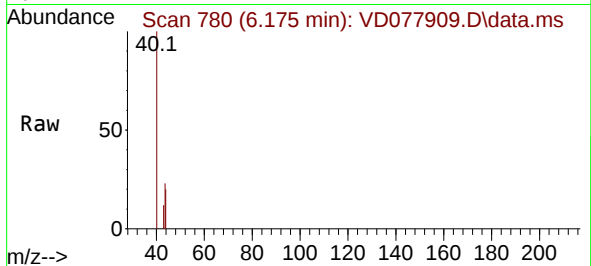




#23
 Vinyl Acetate
 Concen: 1.068 ug/l
 RT: 6.175 min Scan# 777
 Delta R.T. 0.018 min
 Lab File: VD077909.D
 Acq: 15 Dec 2023 17:45

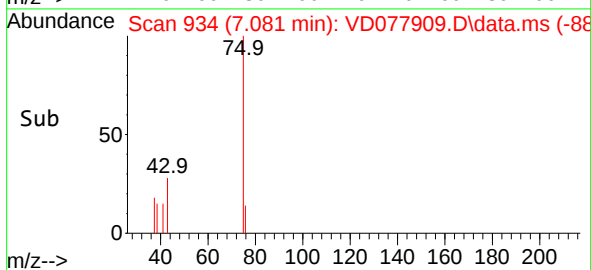
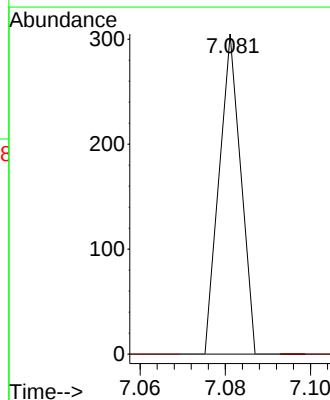
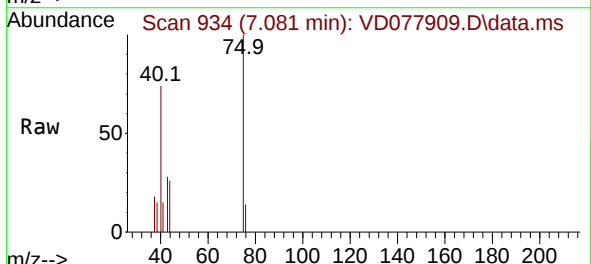
Instrument :
 MSVOA_D
 ClientSampleId :
 HR-04-12122023

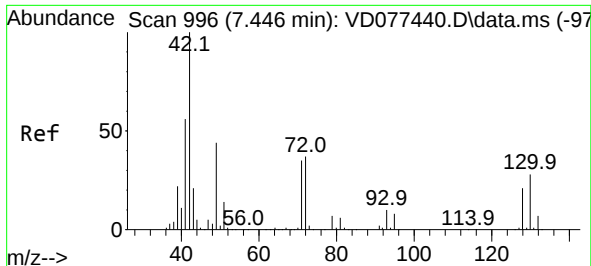
Tgt Ion: 43 Resp: 239
 Ion Ratio Lower Upper
 43 100
 86 0.0 12.5 18.7#



#25
 2-Butanone
 Concen: Below Cal
 RT: 7.081 min Scan# 934
 Delta R.T. 0.000 min
 Lab File: VD077909.D
 Acq: 15 Dec 2023 17:45

Tgt Ion: 43 Resp: 108
 Ion Ratio Lower Upper
 43 100
 72 0.0 30.7 46.1#





#29

Tetrahydrofuran

Concen: 6.066 ug/l

RT: 7.540 min Scan# 1012

Delta R.T. 0.094 min

Lab File: VD077909.D

Acq: 15 Dec 2023 17:45

Instrument :

MSVOA_D

ClientSampleId :

HR-04-12122023

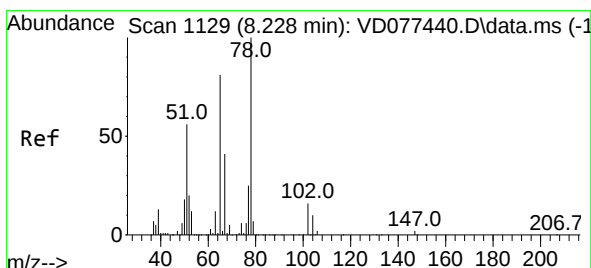
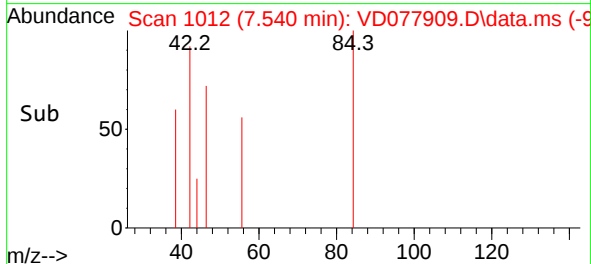
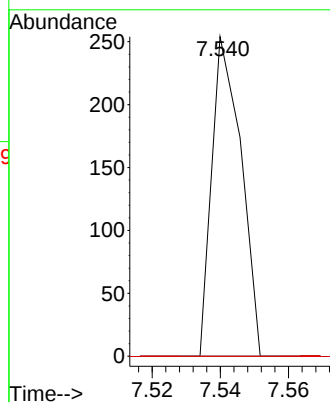
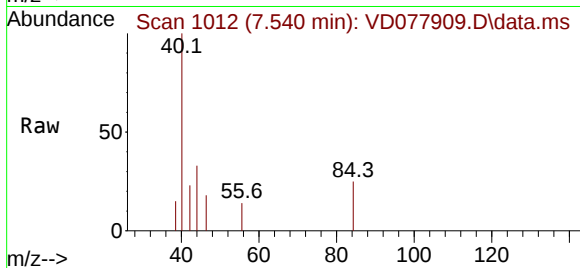
Tgt Ion: 42 Resp: 151

Ion Ratio Lower Upper

42 100

72 0.0 46.5 69.7#

71 0.0 44.5 66.7#



#33

1,2-Dichloroethane-d4

Concen: 65.308 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD077909.D

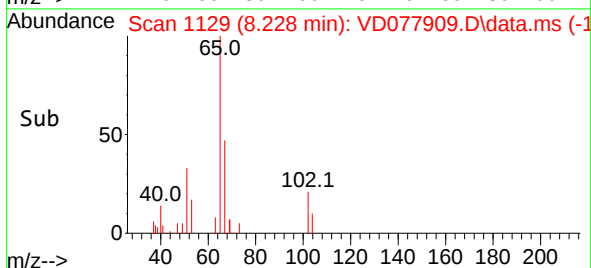
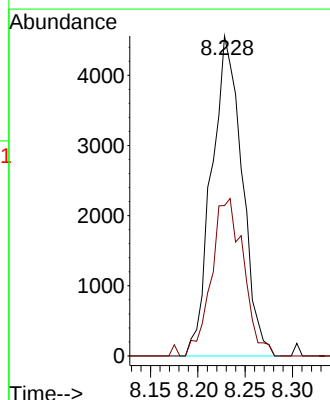
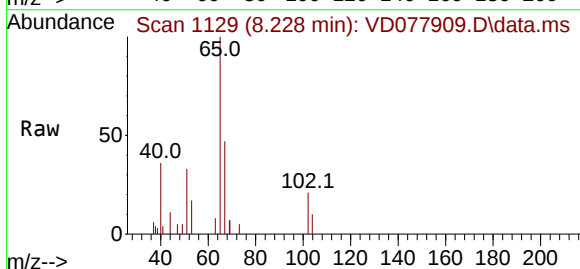
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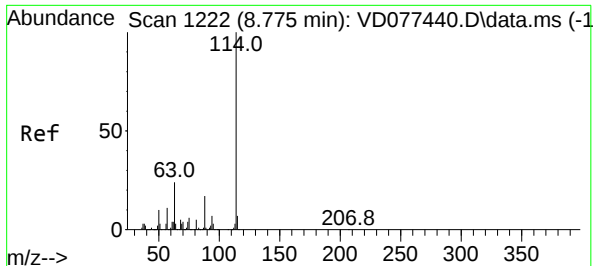
Tgt Ion: 65 Resp: 10209

Ion Ratio Lower Upper

65 100

67 51.7 0.0 115.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 114

Delta R.T. 0.000 min

Lab File: VD077909.D

Acq: 15 Dec 2023 17:45

Instrument :

MSVOA_D

ClientSampleId :

HR-04-12122023

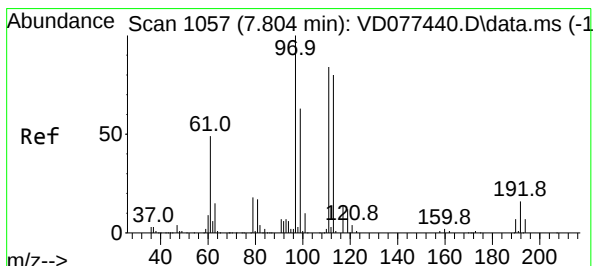
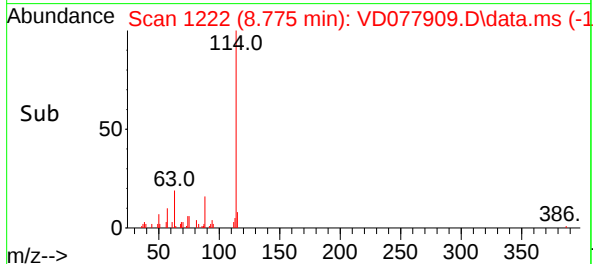
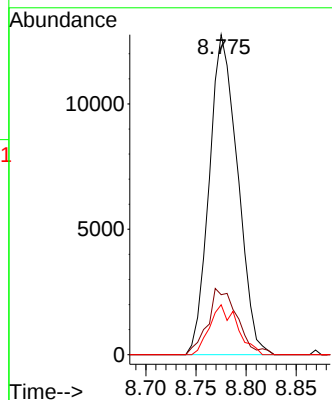
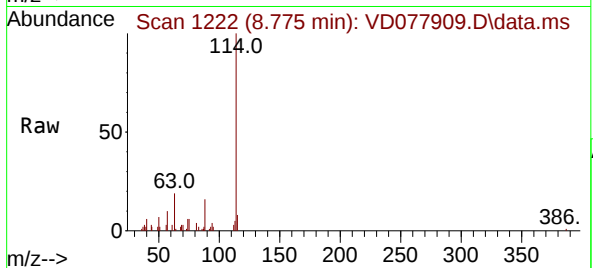
Tgt Ion:114 Resp: 25142

Ion Ratio Lower Upper

114 100

63 18.7 0.0 33.4

88 15.6 0.0 26.2



#35

Dibromofluoromethane

Concen: 52.541 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. 0.001 min

Lab File: VD077909.D

Acq: 15 Dec 2023 17:45

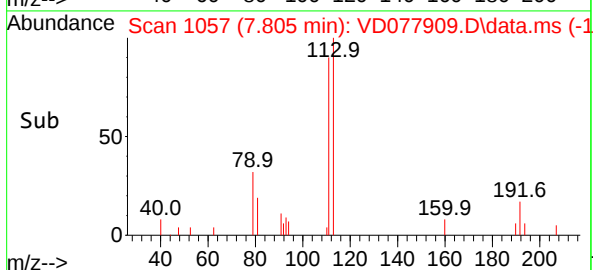
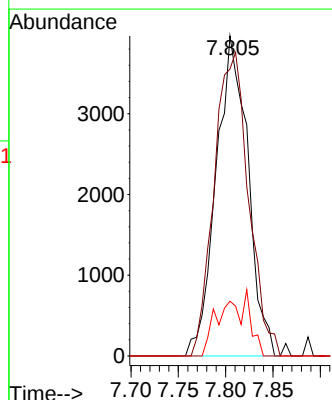
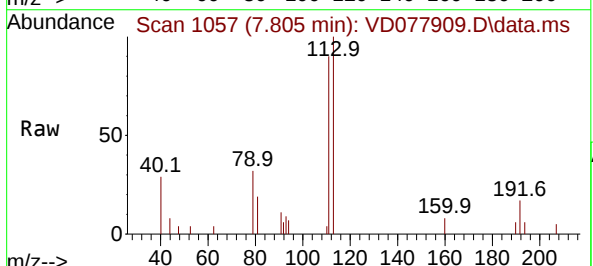
Tgt Ion:113 Resp: 9253

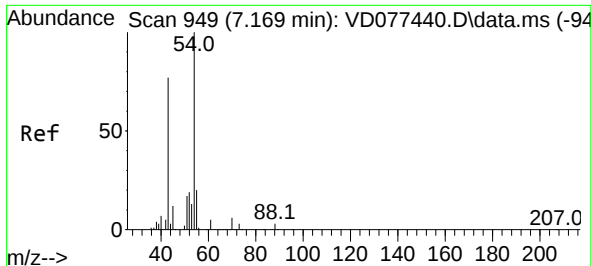
Ion Ratio Lower Upper

113 100

111 102.6 84.7 127.1

192 18.3 16.8 25.2





#37

Ethyl Acetate

Concen: 1.238 ug/l

RT: 7.222 min Scan# 91

Delta R.T. 0.053 min

Lab File: VD077909.D

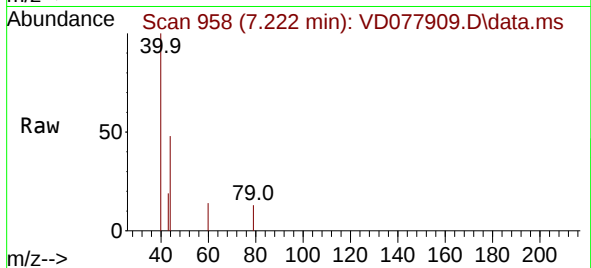
Acq: 15 Dec 2023 17:45

Instrument :

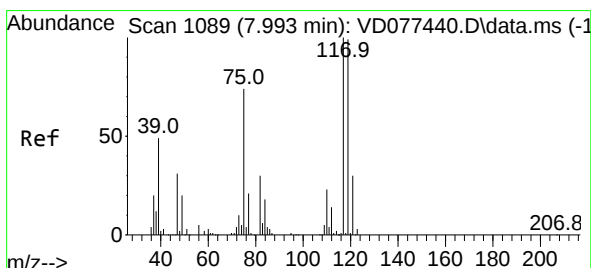
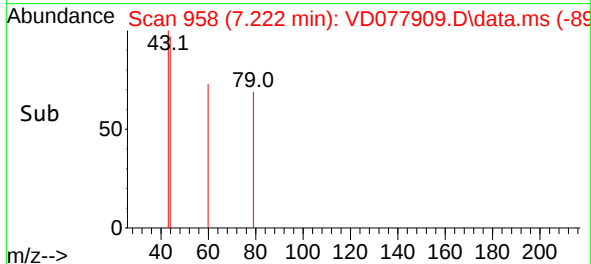
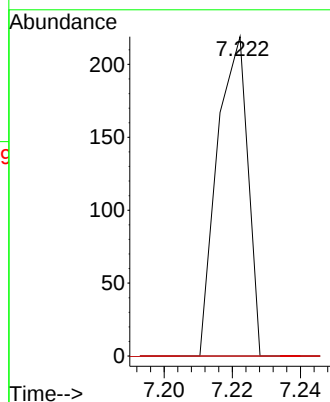
MSVOA_D

ClientSampleId :

HR-04-12122023



Tgt Ion:	43	Resp:	136
Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.9	22.3#
70	0.0	10.0	15.0#



#38

Carbon Tetrachloride

Concen: 2.485 ug/l

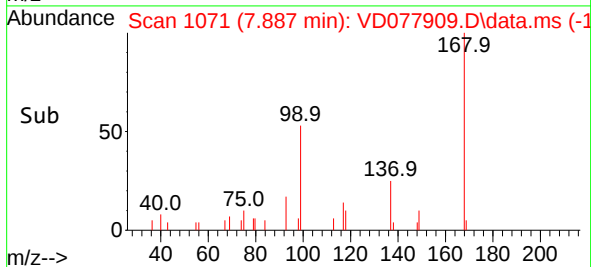
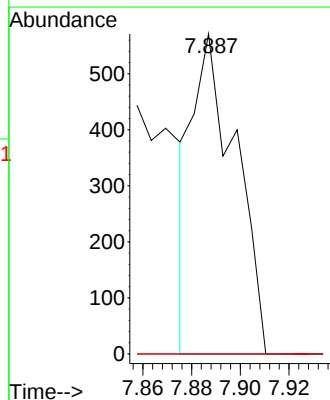
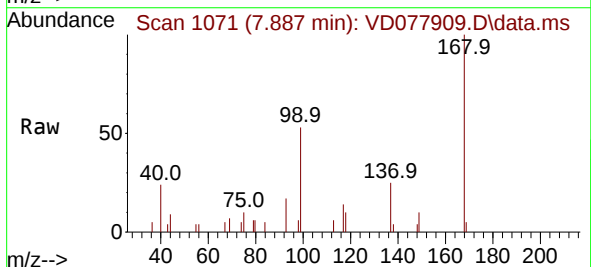
RT: 7.887 min Scan# 1071

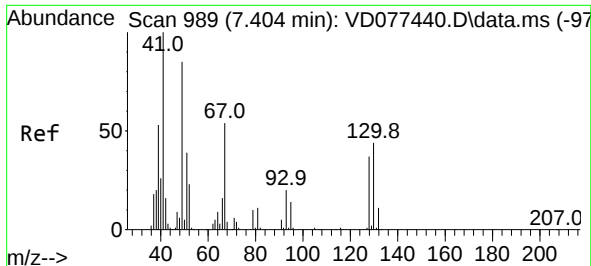
Delta R.T. -0.106 min

Lab File: VD077909.D

Acq: 15 Dec 2023 17:45

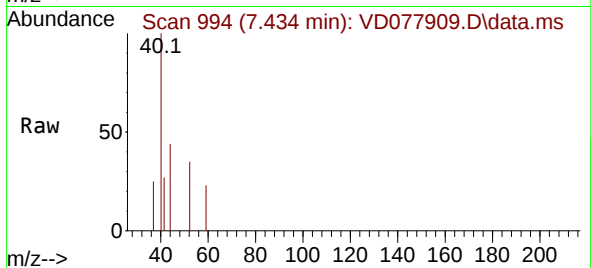
Tgt Ion:	117	Resp:	698
Ion	Ratio	Lower	Upper
117	100		
119	0.0	78.0	117.0#
121	0.0	24.2	36.2#



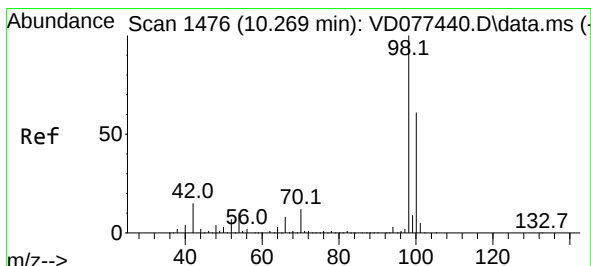
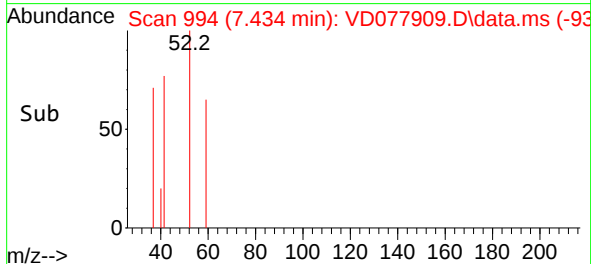
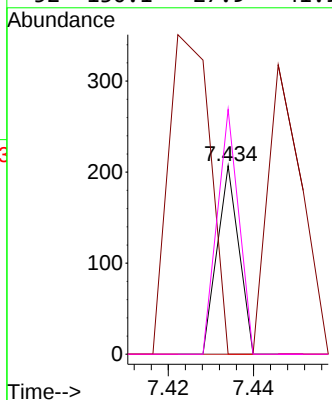


#41
Methacrylonitrile
Concen: 1.308 ug/l
RT: 7.434 min Scan# 994
Delta R.T. 0.030 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Instrument :
MSVOA_D
ClientSampleId :
HR-04-12122023

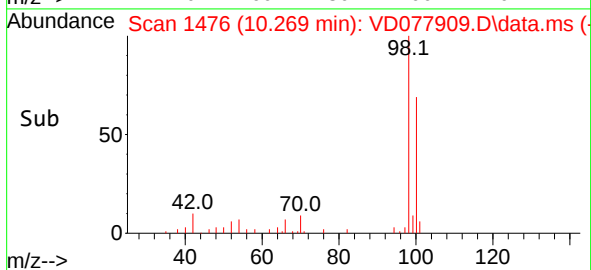
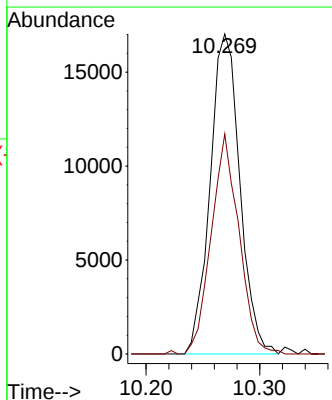
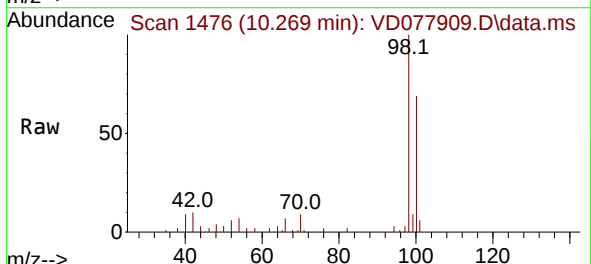


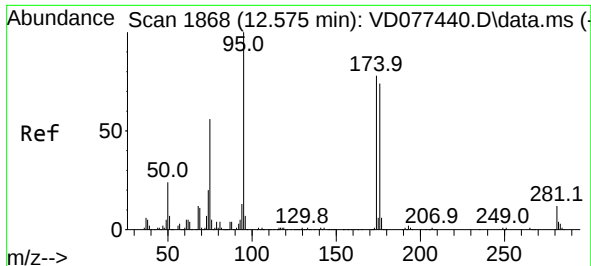
Tgt Ion:	41	Resp:	73
Ion	Ratio	Lower	Upper
41	100		
39	317.8	34.0	51.0#
67	0.0	77.0	115.4#
52	130.1	27.9	41.9#



#50
Toluene-d8
Concen: 43.958 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Tgt Ion:	98	Resp:	31006
Ion	Ratio	Lower	Upper
98	100		
100	64.4	50.3	75.5

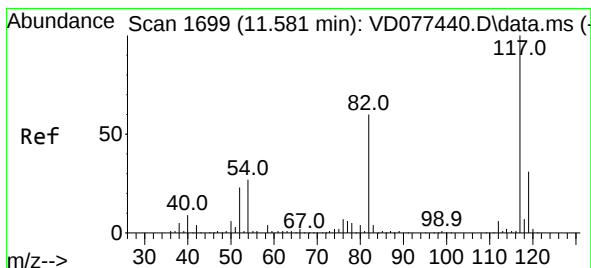
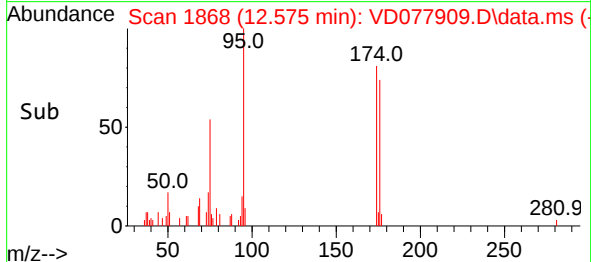
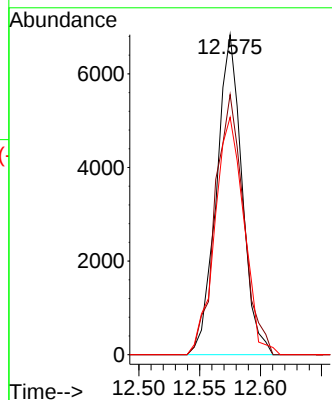
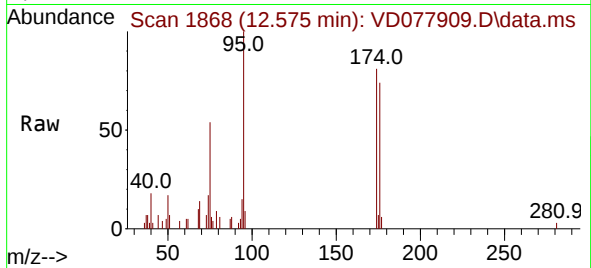




#62
4-Bromofluorobenzene
Concen: 47.192 ug/l
RT: 12.575 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

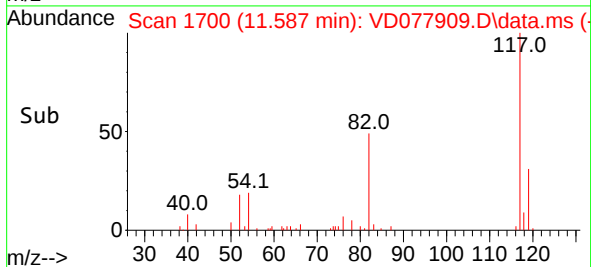
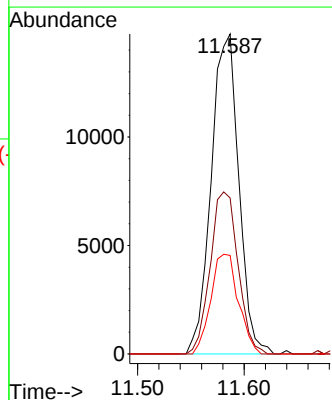
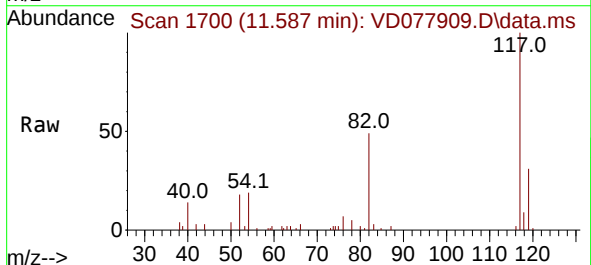
Instrument :
MSVOA_D
ClientSampleId :
HR-04-12122023

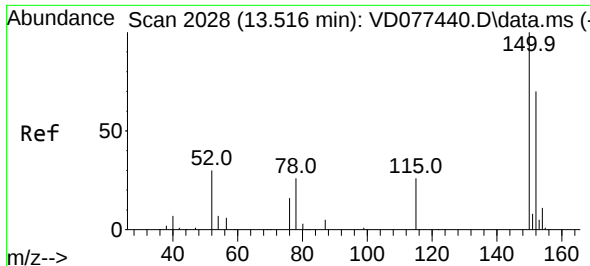
Tgt Ion:	95	Resp:	9952
Ion	Ratio	Lower	Upper
95	100		
174	90.8	0.0	201.8
176	85.2	0.0	191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.587 min Scan# 1700
Delta R.T. 0.006 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Tgt Ion:	117	Resp:	26505
Ion	Ratio	Lower	Upper
117	100		
82	48.8	38.3	57.5
119	30.8	25.0	37.4

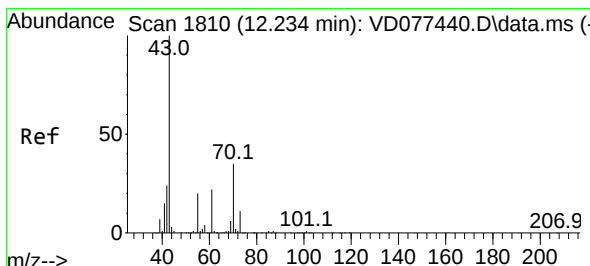
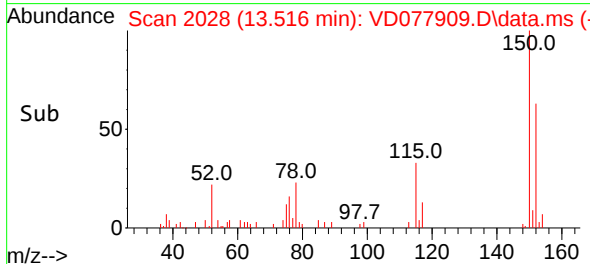
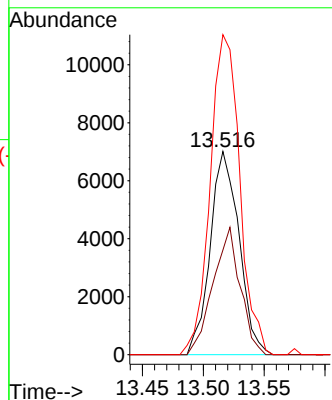
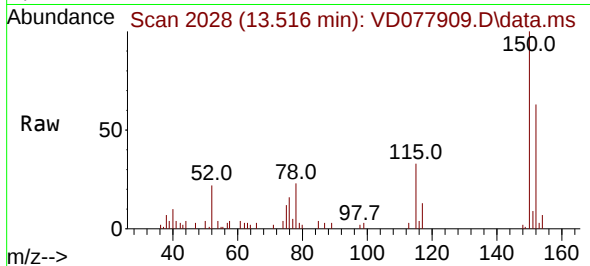




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 20
Delta R.T. 0.000 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

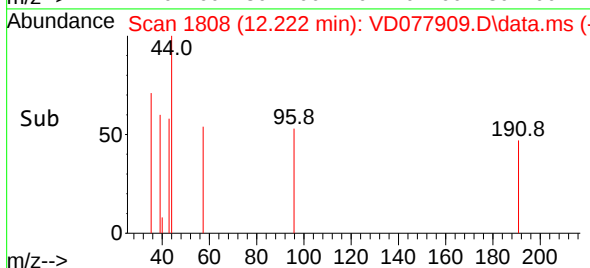
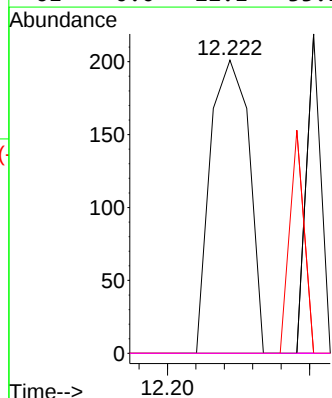
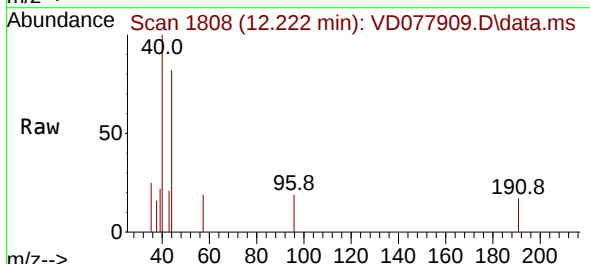
Instrument :
MSVOA_D
ClientSampleId :
HR-04-12122023

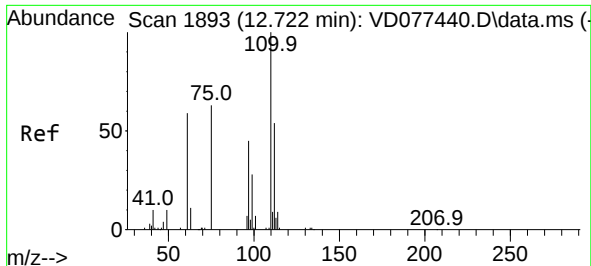
Tgt Ion:152 Resp: 11540
Ion Ratio Lower Upper
152 100
115 59.2 27.1 81.3
150 162.0 0.0 353.6



#74
N-ethyl acetate
Concen: 1.099 ug/l
RT: 12.222 min Scan# 1808
Delta R.T. -0.012 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Tgt Ion: 43 Resp: 189
Ion Ratio Lower Upper
43 100
70 0.0 45.0 67.4#
55 0.0 23.8 35.6#
61 0.0 22.1 33.1#

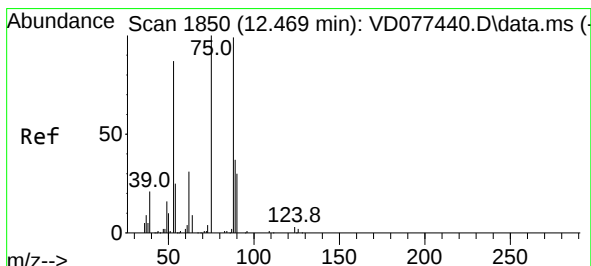
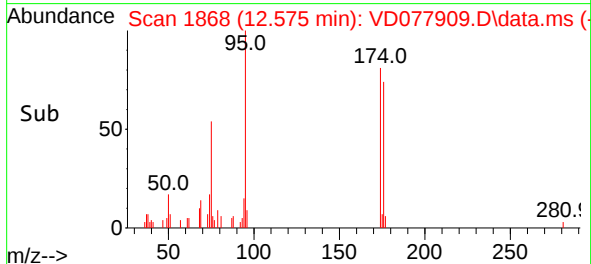
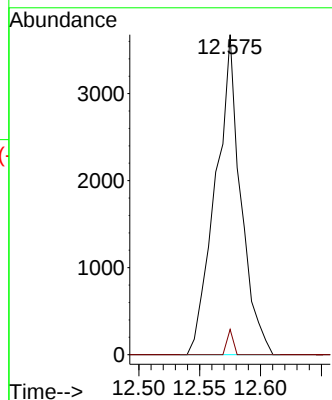
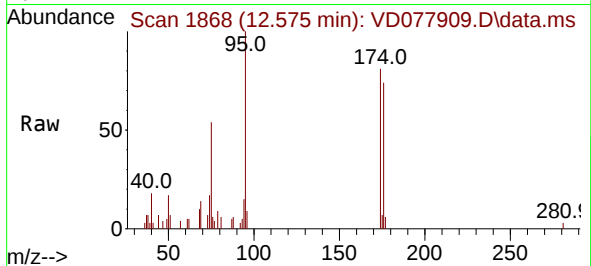




#76
1,2,3-Trichloropropane
Concen: 53.040 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

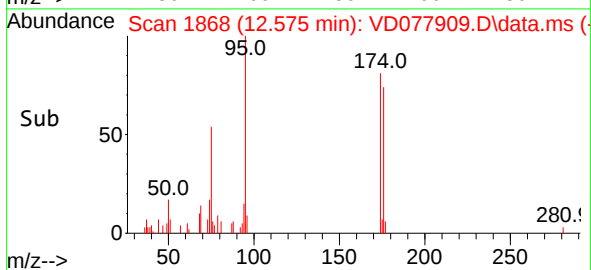
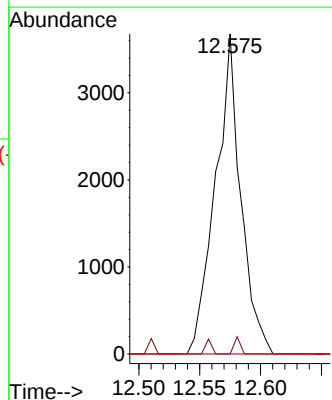
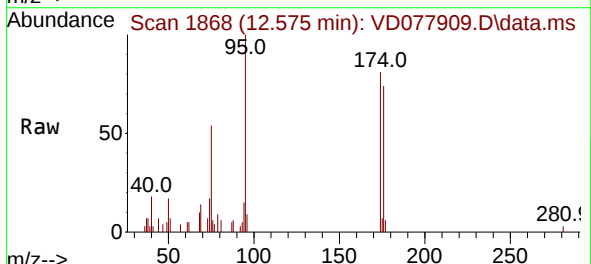
Instrument :
MSVOA_D
ClientSampleId :
HR-04-12122023

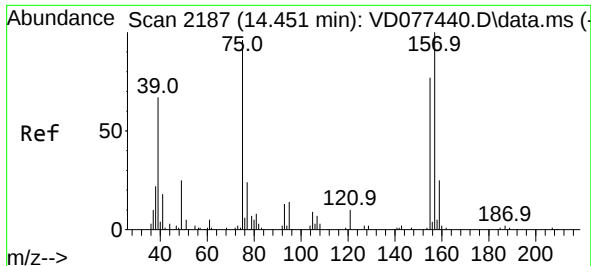
Tgt Ion: 75 Resp: 5316
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 107.464 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD077909.D
Acq: 15 Dec 2023 17:45

Tgt Ion: 75 Resp: 5316
Ion Ratio Lower Upper
75 100
53 1.3 63.0 94.4#
89 0.0 37.9 56.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.586 ug/l

RT: 14.704 min Scan# 21

Delta R.T. 0.253 min

Lab File: VD077909.D

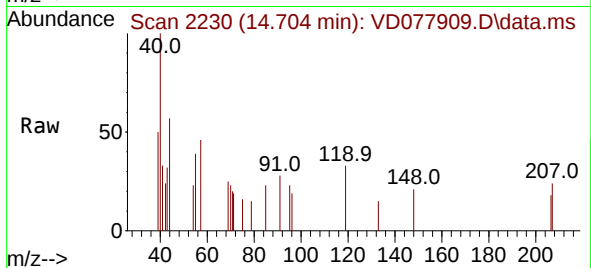
Acq: 15 Dec 2023 17:45

Instrument :

MSVOA_D

ClientSampleId :

HR-04-12122023



Tgt Ion: 75 Resp: 56

Ion Ratio Lower Upper

75 100

155 0.0 47.9 143.8#

157 0.0 59.9 179.7#

