

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071923\
 Data File : VD076793.D
 Acq On : 19 Jul 2023 16:22
 Operator : KP/SY
 Sample : 03659-01
 Misc : 5.01G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-2-071823

Quant Time: Jul 20 05:00:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 17 08:07:52 2023
 Response via : Initial Calibration

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

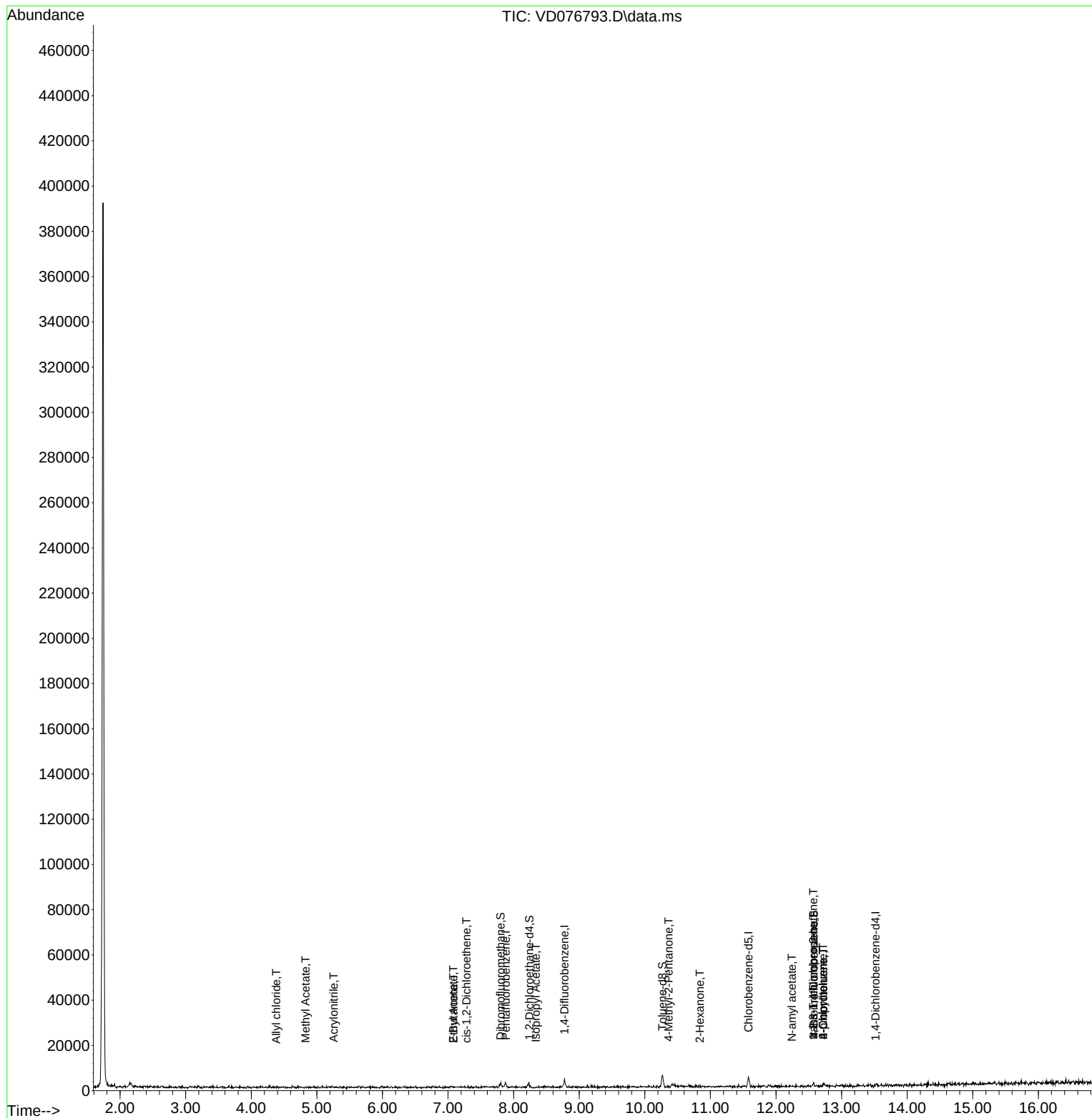
Internal Standards						
1) Pentafluorobenzene	7.881	168	1936	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	3447	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	2917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	472	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.240	65	1395	72.343	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 144.680%	
35) Dibromofluoromethane	7.799	113	1334	61.585	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 123.160%	
50) Toluene-d8	10.269	98	4665	60.201	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 120.400%	
62) 4-Bromofluorobenzene	12.575	95	771	30.756	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 61.520%	
Target Compounds						
						Qvalue
14) Allyl chloride	4.381	41	58	2.308	ug/l #	1
15) Acrylonitrile	5.258	53	87	16.609	ug/l #	18
18) Methyl Acetate	4.828	43	57	3.294	ug/l #	42
25) 2-Butanone	7.081	43	79	12.818	ug/l #	37
27) cis-1,2-Dichloroethene	7.281	96	57	2.079	ug/l #	1
37) Ethyl Acetate	7.081	43	79	6.241	ug/l #	62
43) Isopropyl Acetate	8.340	43	63	2.550	ug/l #	43
51) 4-Methyl-2-Pentanone	10.363	43	55	4.181	ug/l #	28
59) 2-Hexanone	10.840	43	54	5.754	ug/l #	16
74) N-amyl acetate	12.240	43	67	9.287	ug/l #	17
76) 1,2,3-Trichloropropane	12.569	75	314	69.954	ug/l #	100
78) n-propylbenzene	12.716	91	53	1.277	ug/l #	50
79) 2-Chlorotoluene	12.716	91	53	2.328	ug/l #	36
81) trans-1,4-Dichloro-2-b...	12.569	75	314	148.880	ug/l #	17
82) 4-Chlorotoluene	12.716	91	53	2.229	ug/l #	36

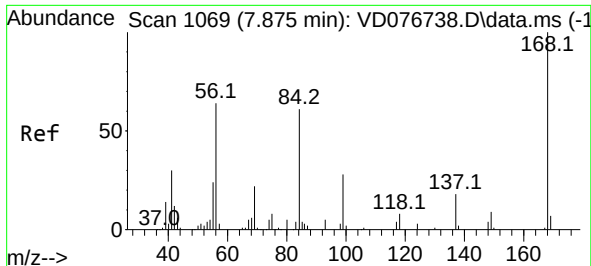
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 20 05:00:34 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
Quant Title : SW846 8260
QLast Update : Mon Jul 17 08:07:52 2023
Response via : Initial Calibration

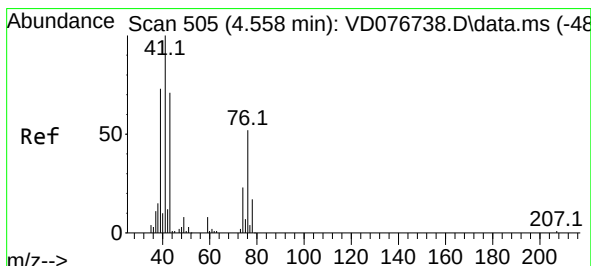
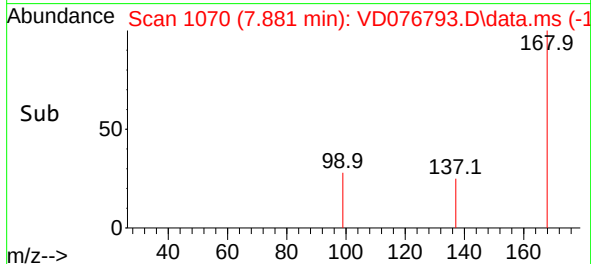
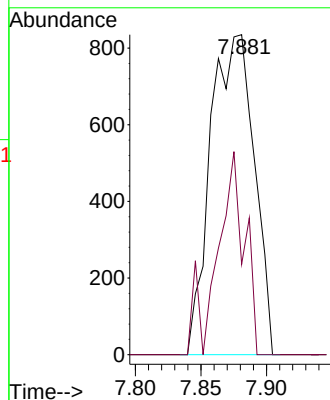
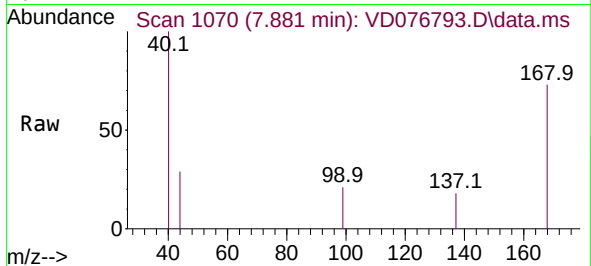




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.881 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

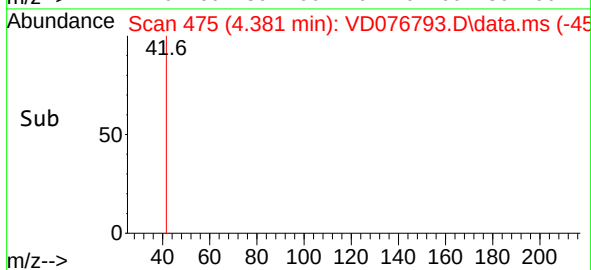
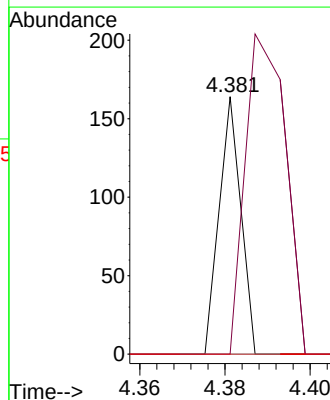
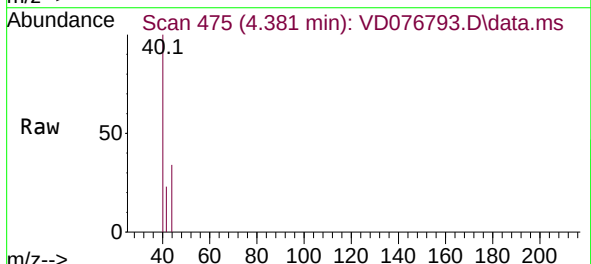
Instrument :
MSVOA_D
ClientSampleId :
HR-2-071823

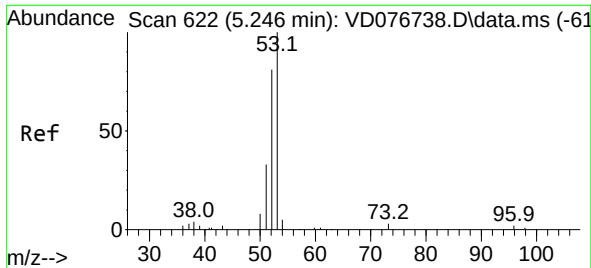
Tgt Ion:168 Resp: 1936
Ion Ratio Lower Upper
168 100
99 28.3 36.7 55.1#



#14
Allyl chloride
Concen: 2.308 ug/l
RT: 4.381 min Scan# 475
Delta R.T. -0.177 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

Tgt Ion: 41 Resp: 58
Ion Ratio Lower Upper
41 100
39 231.0 53.8 80.6#
76 0.0 45.8 68.8#

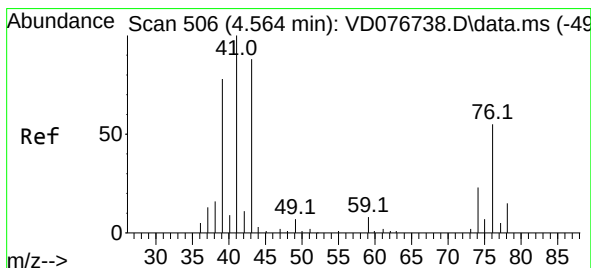
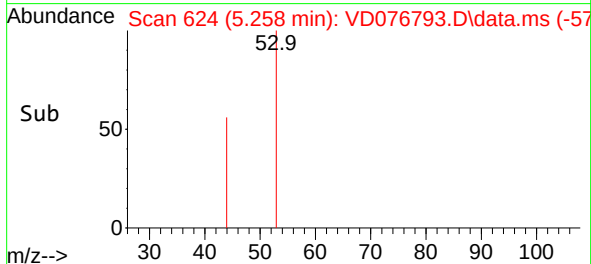
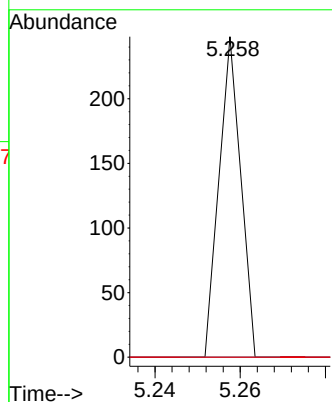
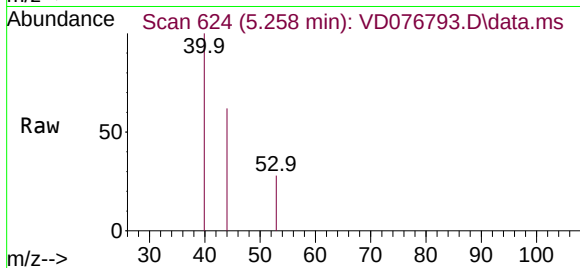




#15
Acrylonitrile
Concen: 16.609 ug/l
RT: 5.258 min Scan# 61
Delta R.T. 0.012 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

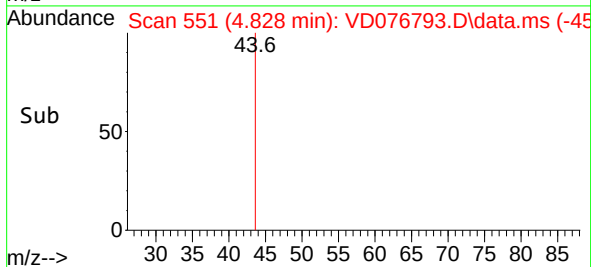
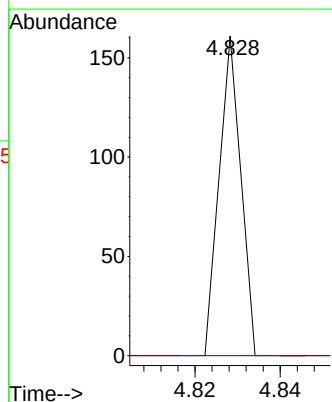
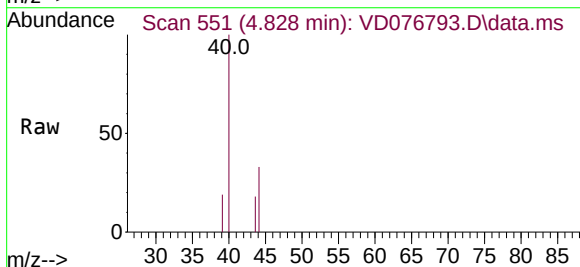
Instrument :
MSVOA_D
ClientSampleId :
HR-2-071823

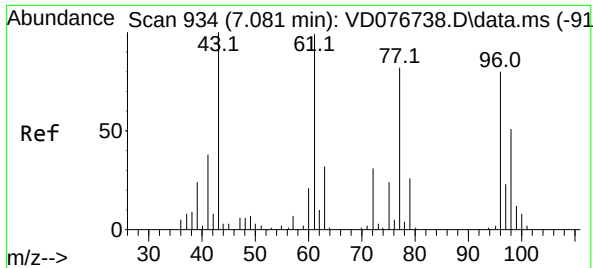
Tgt Ion: 53 Resp: 87
Ion Ratio Lower Upper
53 100
52 0.0 65.0 97.4#
51 0.0 28.3 42.5#



#18
Methyl Acetate
Concen: 3.294 ug/l
RT: 4.828 min Scan# 551
Delta R.T. 0.264 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
74 0.0 26.4 39.6#

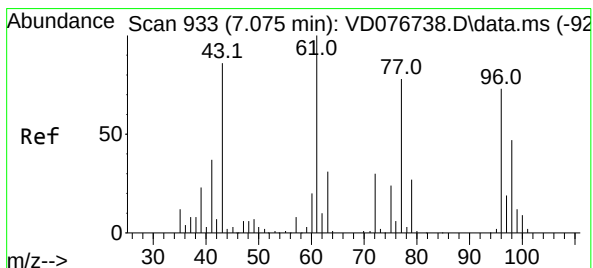
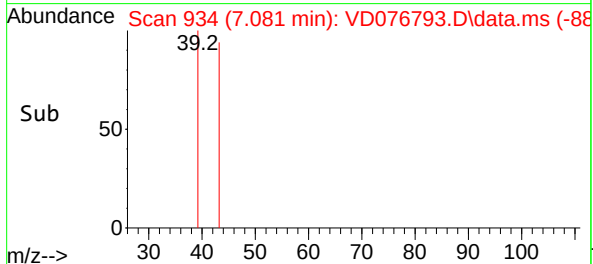
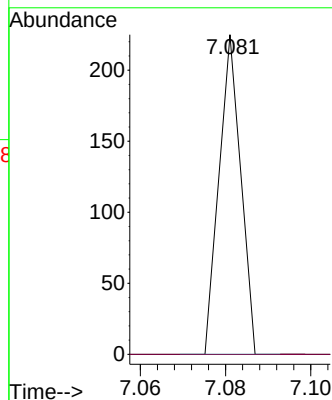
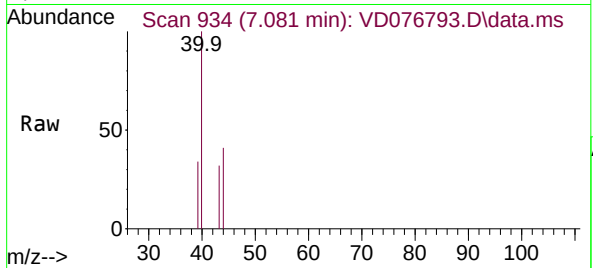




#25
2-Butanone
Concen: 12.818 ug/l
RT: 7.081 min Scan# 91
Delta R.T. 0.000 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

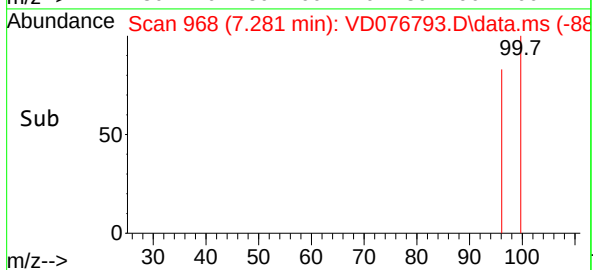
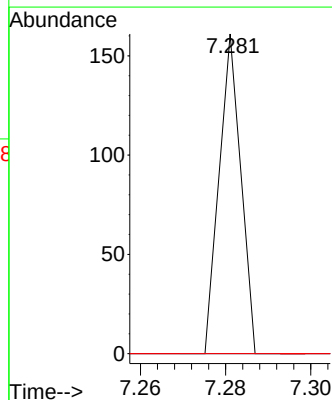
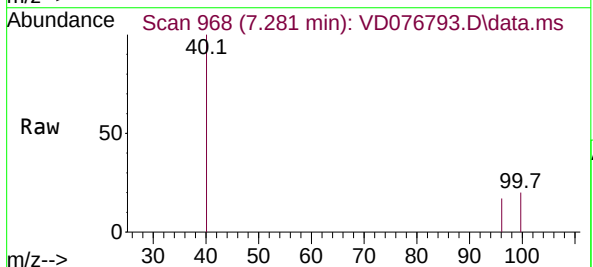
Instrument :
MSVOA_D
ClientSampleId :
HR-2-071823

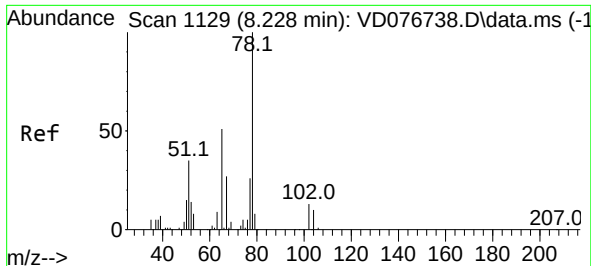
Tgt Ion: 43 Resp: 79
Ion Ratio Lower Upper
43 100
72 0.0 30.7 46.1#



#27
cis-1,2-Dichloroethene
Concen: 2.079 ug/l
RT: 7.281 min Scan# 968
Delta R.T. 0.206 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

Tgt Ion: 96 Resp: 57
Ion Ratio Lower Upper
96 100
61 0.0 0.0 239.2
98 0.0 0.0 128.6





#33

1,2-Dichloroethane-d4

Concen: 72.343 ug/l

RT: 8.240 min Scan# 1129

Delta R.T. 0.012 min

Lab File: VD076793.D

Acq: 19 Jul 2023 16:22

Instrument :

MSVOA_D

ClientSampleId :

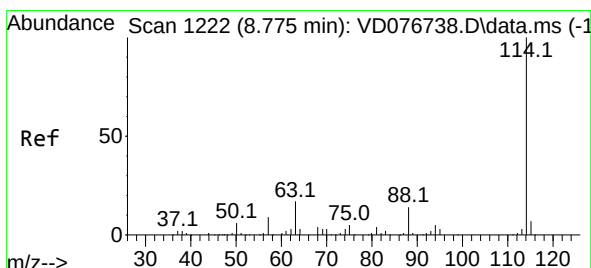
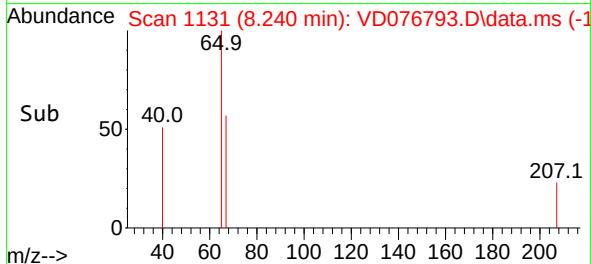
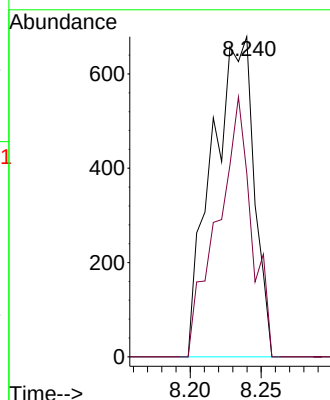
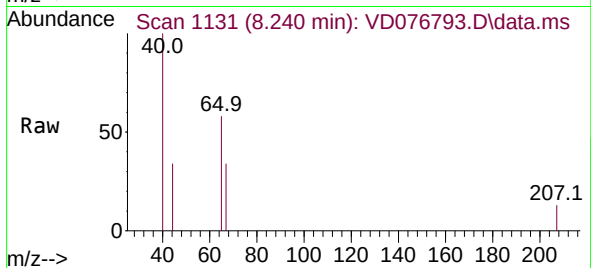
HR-2-071823

Tgt Ion: 65 Resp: 1395

Ion Ratio Lower Upper

65 100

67 66.3 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD076793.D

Acq: 19 Jul 2023 16:22

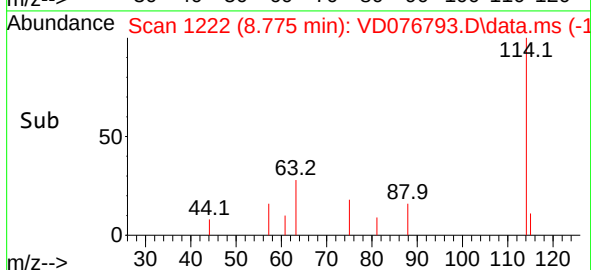
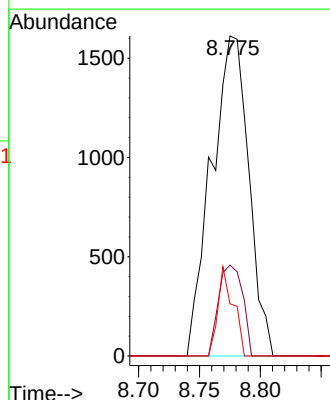
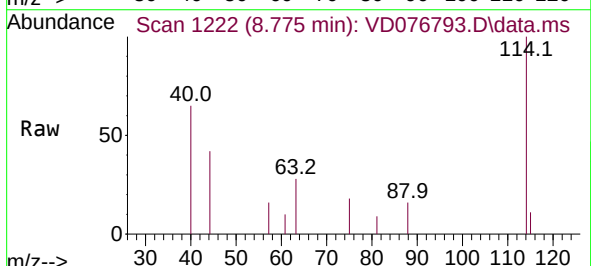
Tgt Ion: 114 Resp: 3447

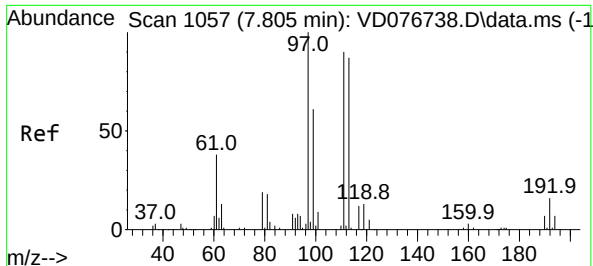
Ion Ratio Lower Upper

114 100

63 28.4 0.0 33.4

88 16.3 0.0 26.2





#35

Dibromofluoromethane

Concen: 61.585 ug/l

RT: 7.799 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VD076793.D

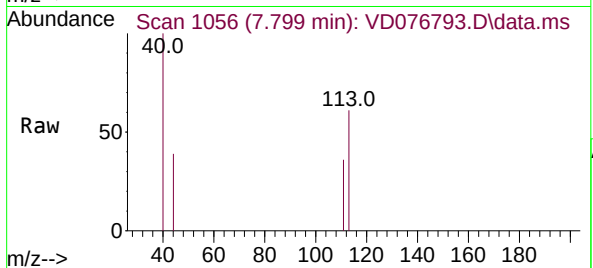
Acq: 19 Jul 2023 16:22

Instrument :

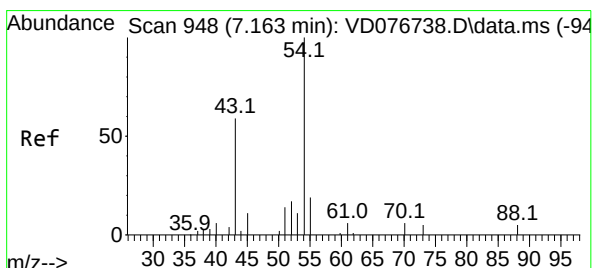
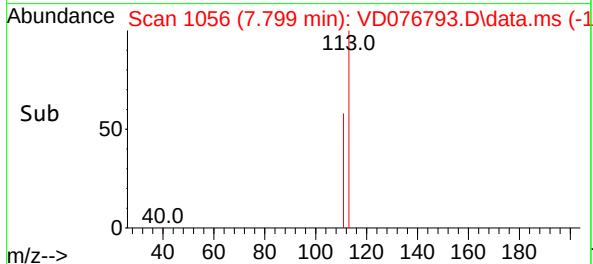
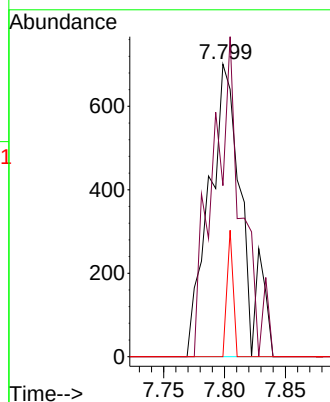
MSVOA_D

ClientSampleId :

HR-2-071823



Tgt Ion:	113	Resp:	1334
Ion	Ratio	Lower	Upper
113	100		
111	94.9	84.7	127.1
192	8.0	16.8	25.2#



#37

Ethyl Acetate

Concen: 6.241 ug/l

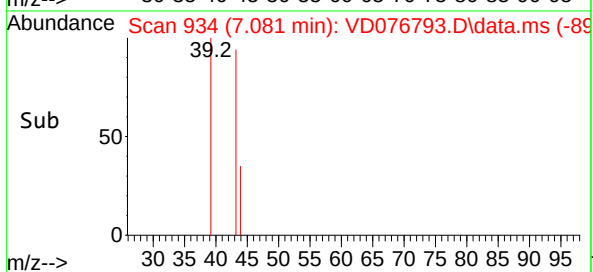
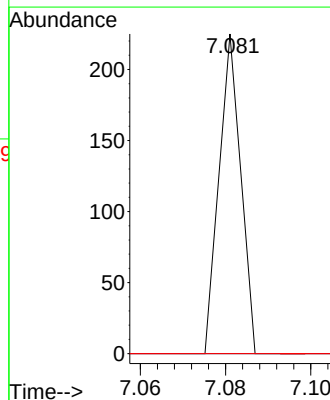
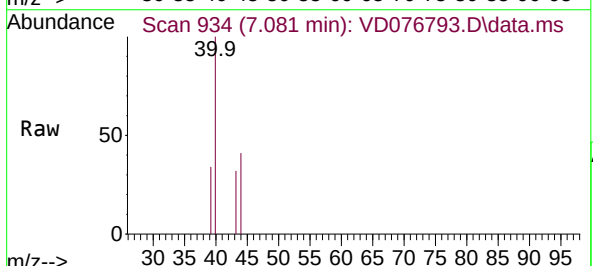
RT: 7.081 min Scan# 934

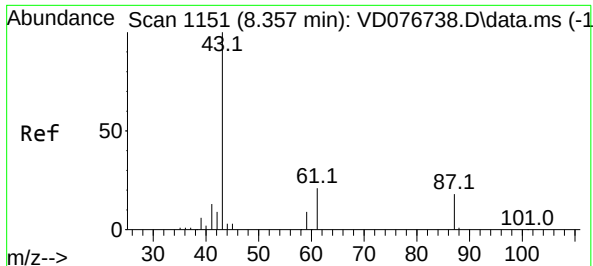
Delta R.T. -0.082 min

Lab File: VD076793.D

Acq: 19 Jul 2023 16:22

Tgt Ion:	43	Resp:	79
Ion	Ratio	Lower	Upper
43	100		
61	0.0	14.9	22.3#
70	0.0	10.0	15.0#





#43

Isopropyl Acetate

Concen: 2.550 ug/l

RT: 8.340 min Scan# 1151

Delta R.T. -0.017 min

Lab File: VD076793.D

Acq: 19 Jul 2023 16:22

Instrument :

MSVOA_D

ClientSampleId :

HR-2-071823

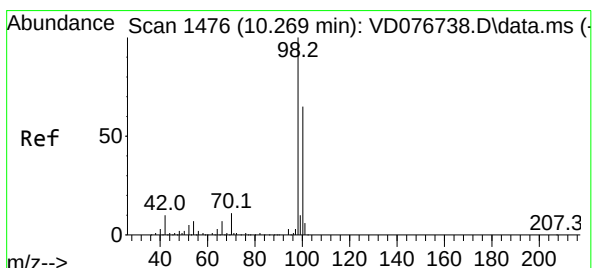
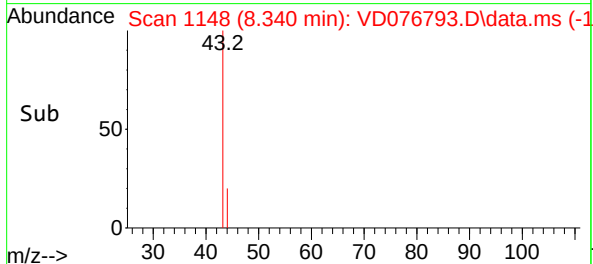
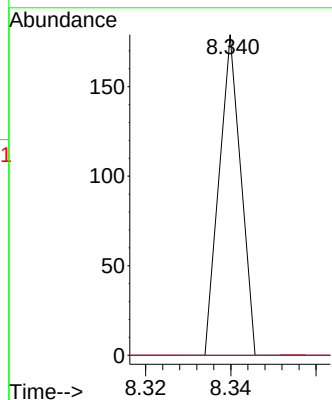
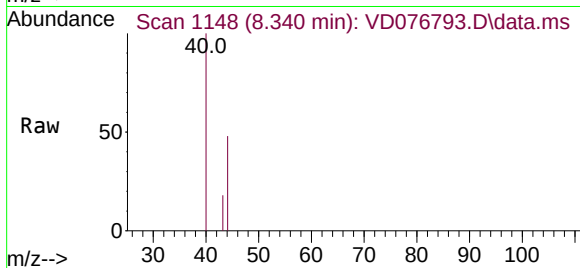
Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

61 0.0 31.4 47.0#

87 0.0 14.9 22.3#



#50

Toluene-d8

Concen: 60.201 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD076793.D

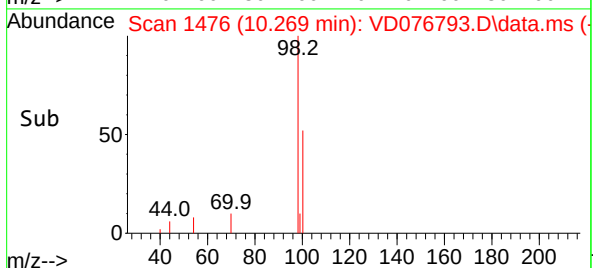
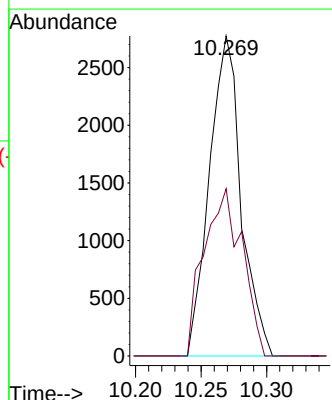
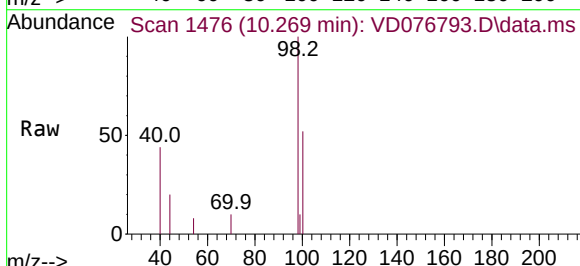
Acq: 19 Jul 2023 16:22

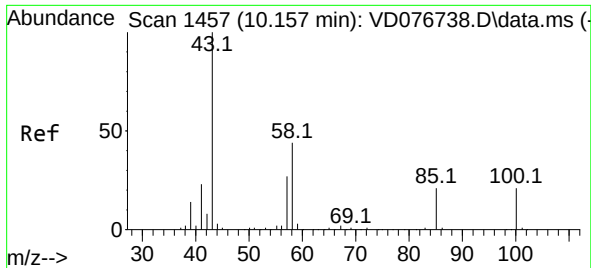
Tgt Ion: 98 Resp: 4665

Ion Ratio Lower Upper

98 100

100 63.1 50.3 75.5

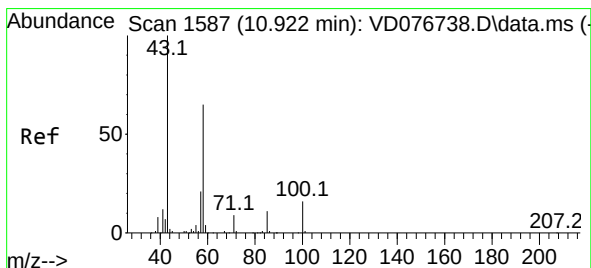
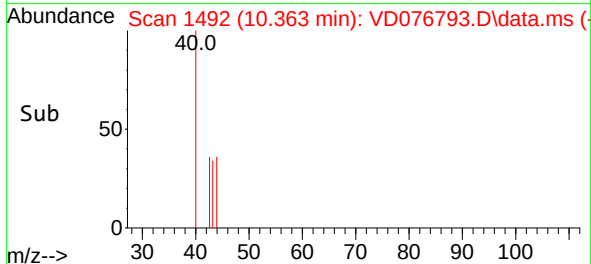
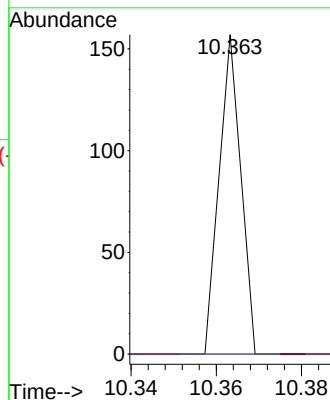
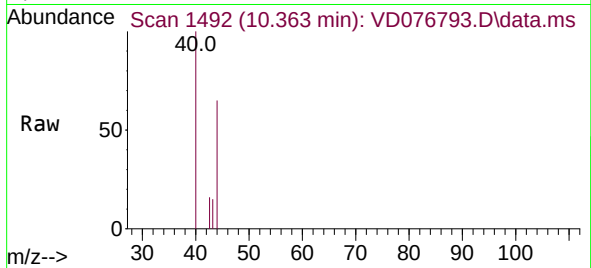




#51
4-Methyl-2-Pentanone
Concen: 4.181 ug/l
RT: 10.363 min Scan# 1457
Delta R.T. 0.206 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

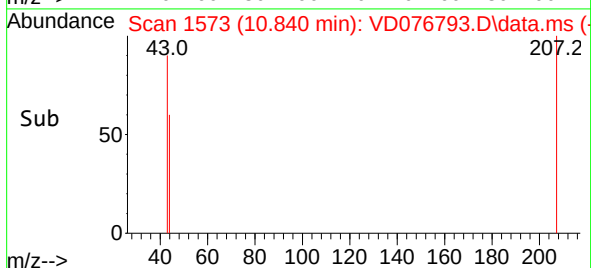
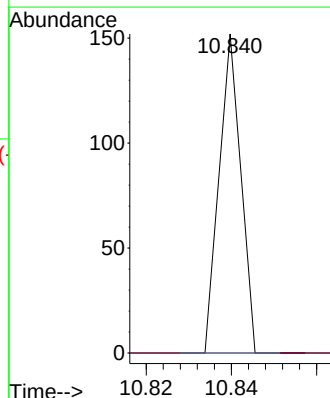
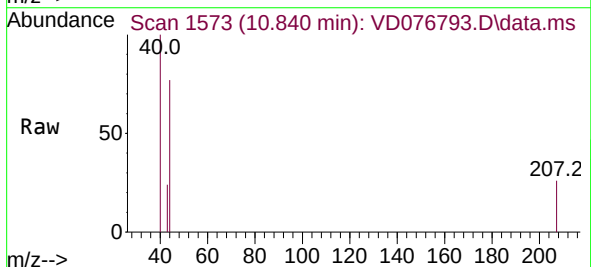
Instrument :
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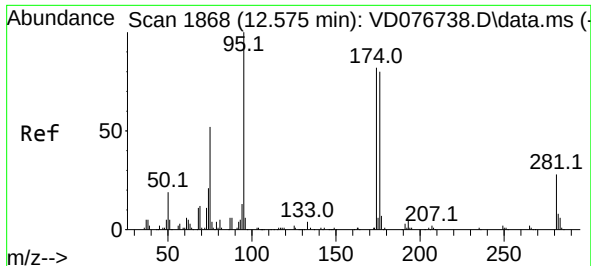
Tgt Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
58 0.0 38.9 58.3#



#59
2-Hexanone
Concen: 5.754 ug/l
RT: 10.840 min Scan# 1573
Delta R.T. -0.082 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
58 0.0 34.1 102.2#

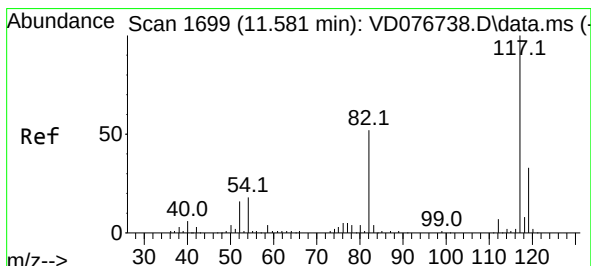
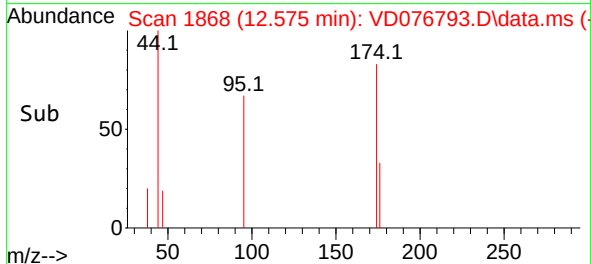
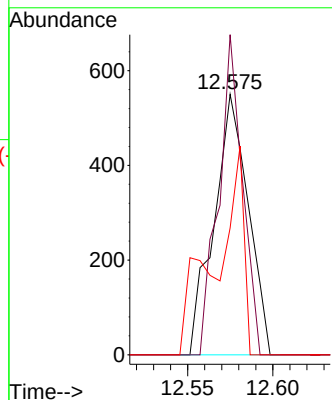
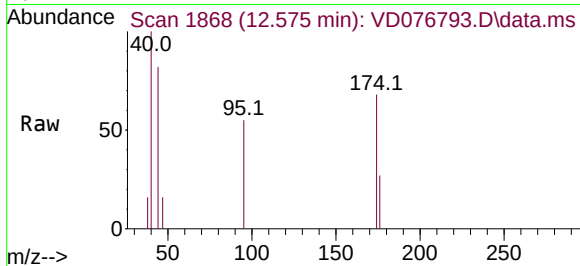




#62
4-Bromofluorobenzene
Concen: 30.756 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

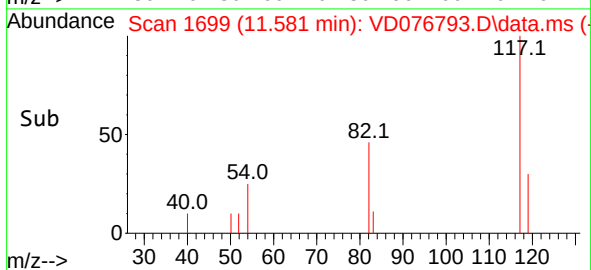
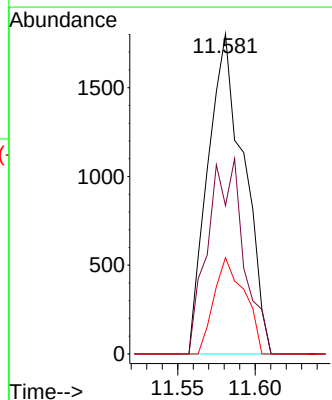
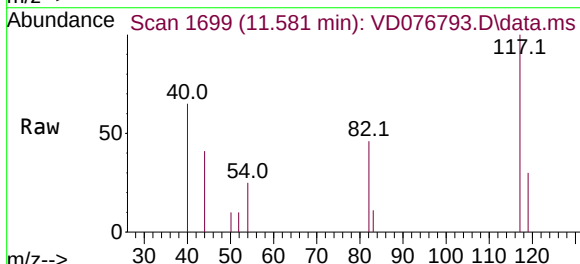
Instrument :
MSVOA_D
ClientSampleId :
HR-2-071823

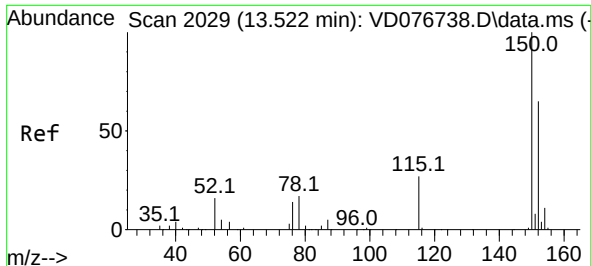
Tgt Ion:	95	Resp:	771
Ion	Ratio	Lower	Upper
95	100		
174	85.2	0.0	201.8
176	32.4	0.0	191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

Tgt Ion:	117	Resp:	2917
Ion	Ratio	Lower	Upper
117	100		
82	46.4	38.3	57.5
119	30.1	25.0	37.4

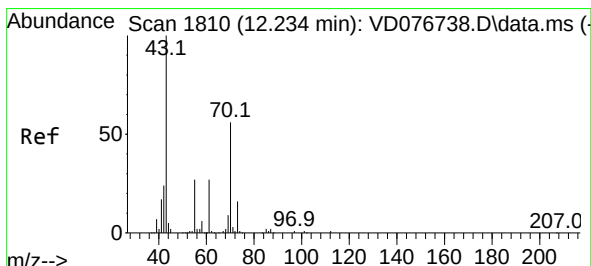
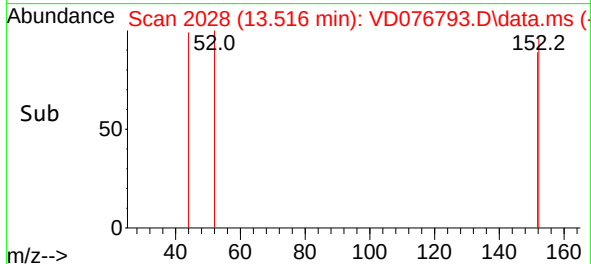
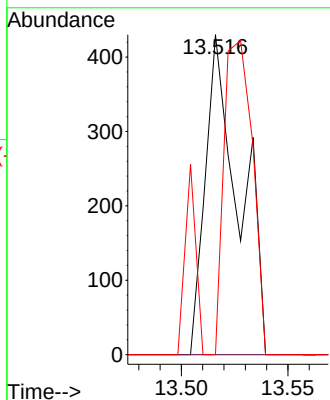
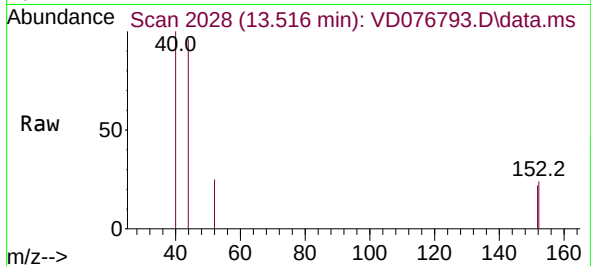




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.516 min Scan# 2028
 Delta R.T. -0.006 min
 Lab File: VD076793.D
 Acq: 19 Jul 2023 16:22

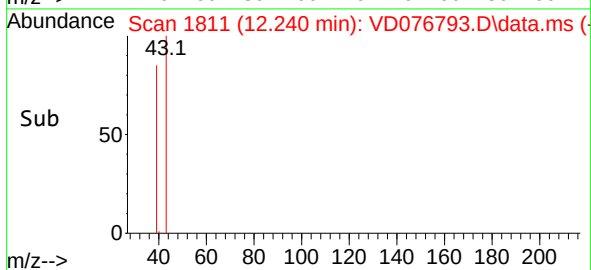
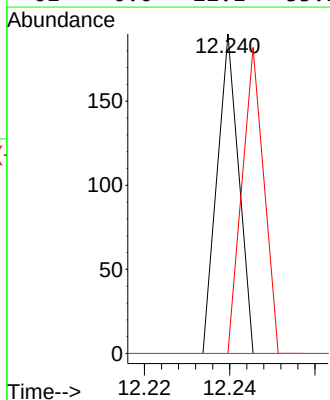
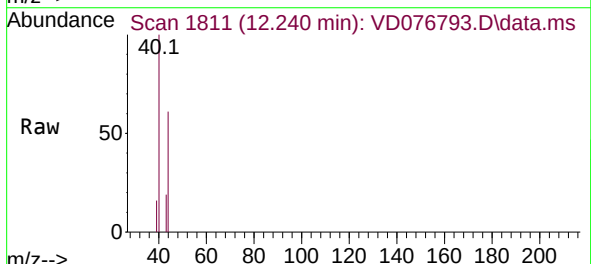
Instrument :
 MSVOA_D
 ClientSampleId :
 HR-2-071823

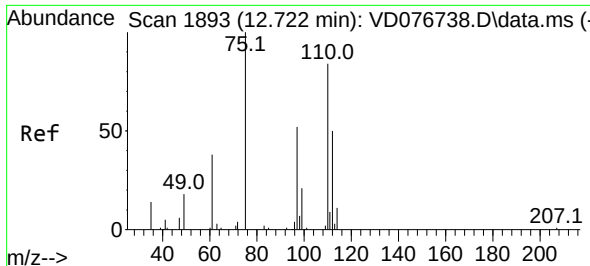
Tgt Ion:152 Resp: 472
 Ion Ratio Lower Upper
 152 100
 115 0.0 27.1 81.3#
 150 83.1 0.0 353.6



#74
 N-ethyl acetate
 Concen: 9.287 ug/l
 RT: 12.240 min Scan# 1811
 Delta R.T. 0.006 min
 Lab File: VD076793.D
 Acq: 19 Jul 2023 16:22

Tgt Ion: 43 Resp: 67
 Ion Ratio Lower Upper
 43 100
 70 0.0 45.0 67.4#
 55 95.5 23.8 35.6#
 61 0.0 22.1 33.1#

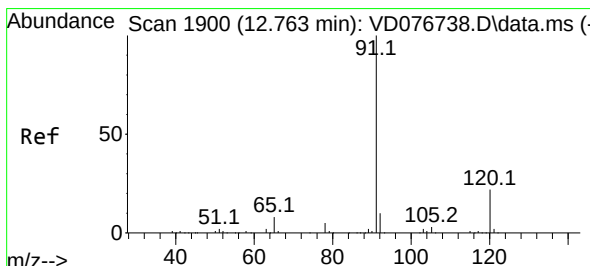
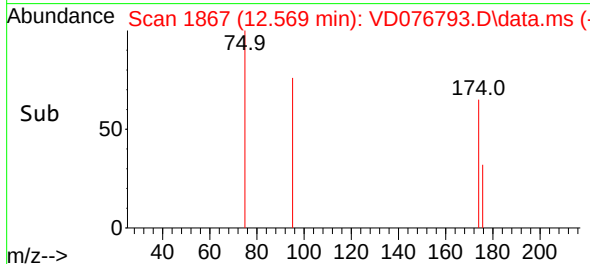
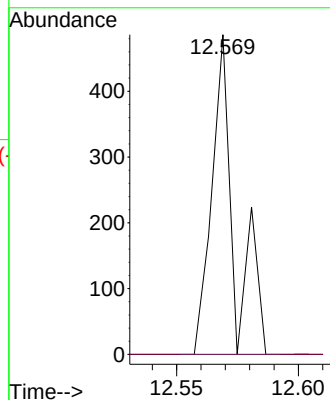
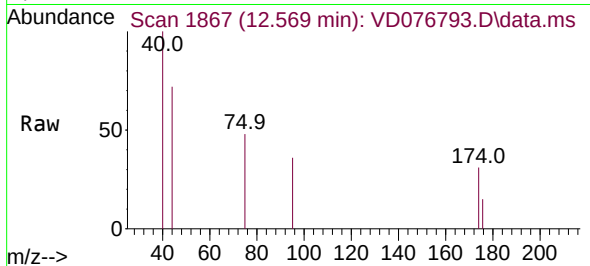




#76
1,2,3-Trichloropropane
Concen: 69.954 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

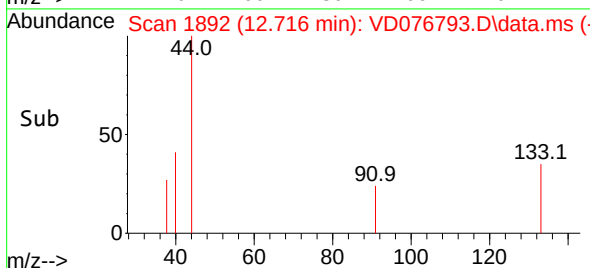
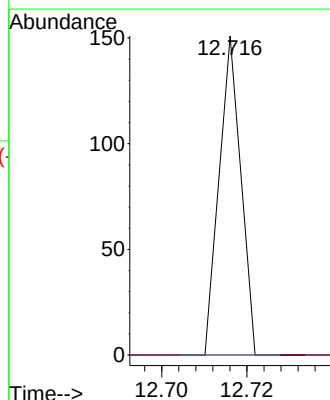
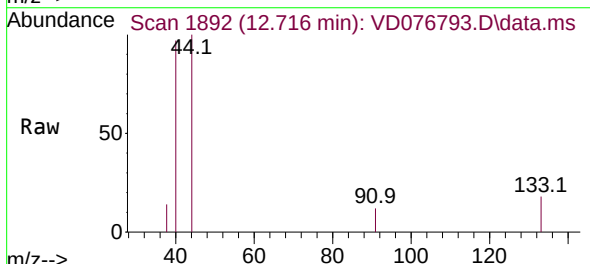
Instrument :
MSVOA_D
ClientSampleId :
HR-2-071823

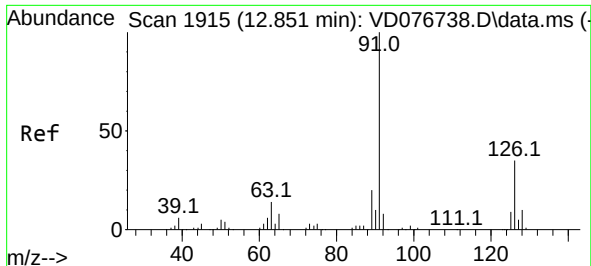
Tgt Ion: 75 Resp: 314
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 1.277 ug/l
RT: 12.716 min Scan# 1892
Delta R.T. -0.047 min
Lab File: VD076793.D
Acq: 19 Jul 2023 16:22

Tgt Ion: 91 Resp: 53
Ion Ratio Lower Upper
91 100
120 0.0 12.4 37.2#





#79

2-Chlorotoluene

Concen: 2.328 ug/l

RT: 12.716 min Scan# 1892

Delta R.T. -0.135 min

Lab File: VD076793.D

Acq: 19 Jul 2023 16:22

Instrument :

MSVOA_D

ClientSampleId :

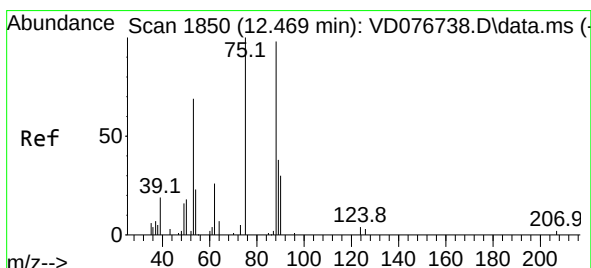
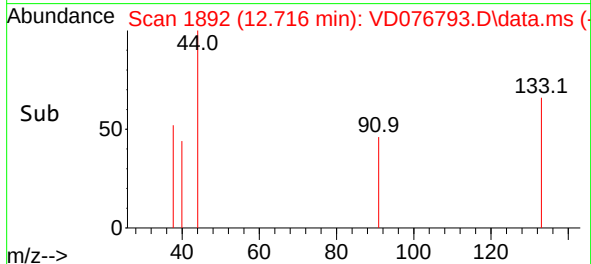
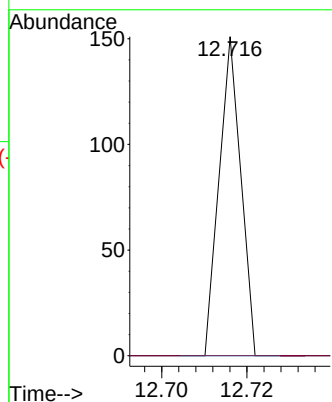
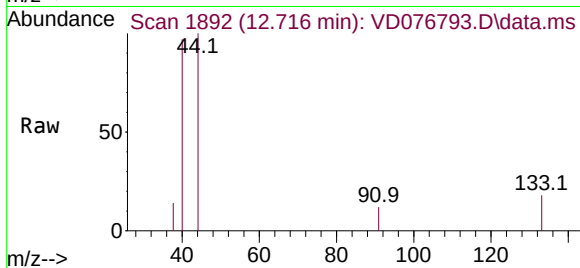
HR-2-071823

Tgt Ion: 91 Resp: 53

Ion Ratio Lower Upper

91 100

126 0.0 19.4 58.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 148.880 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. 0.100 min

Lab File: VD076793.D

Acq: 19 Jul 2023 16:22

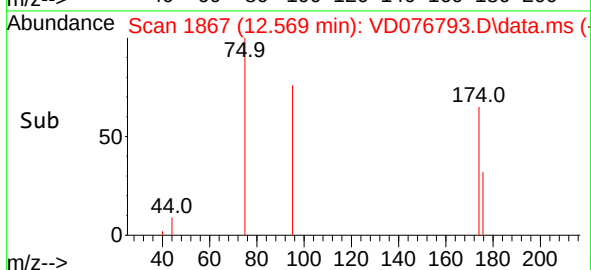
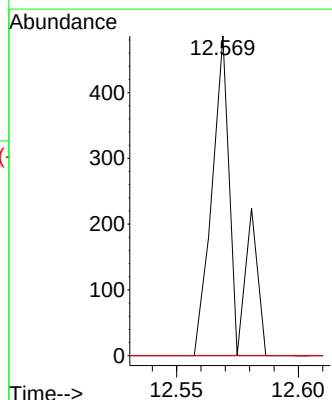
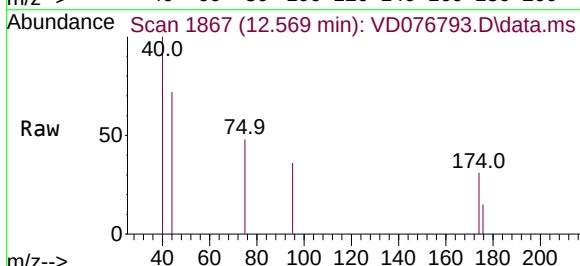
Tgt Ion: 75 Resp: 314

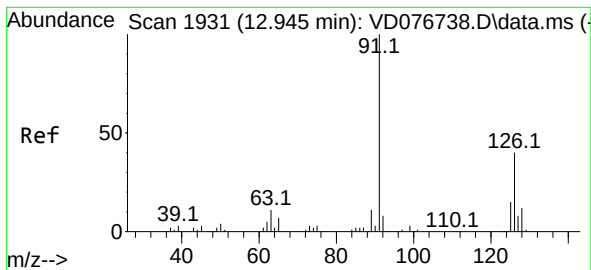
Ion Ratio Lower Upper

75 100

53 0.0 63.0 94.4#

89 0.0 37.9 56.9#





#82
 4-Chlorotoluene
 Concen: 2.229 ug/l
 RT: 12.716 min Scan# 11
 Delta R.T. -0.229 min
 Lab File: VD076793.D
 Acq: 19 Jul 2023 16:22

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-2-071823

Tgt Ion: 91 Resp: 53
 Ion Ratio Lower Upper
 91 100
 126 0.0 19.4 58.4#

