

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD020521\
 Data File : VD068303.D
 Acq On : 05 Feb 2021 16:19
 Operator : VA/SY
 Sample : M1314-03
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 30752

Quant Time: Feb 05 21:43:02 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D011921S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 19 13:19:08 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.985	168	528852	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	915932	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	774496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	281057	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	262854	51.96	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	103.92%
35) Dibromofluoromethane	7.920	113	276939	54.69	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	109.38%
50) Toluene-d8	10.344	98	1103745	54.49	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	108.98%
62) 4-Bromofluorobenzene	12.632	95	319769	43.84	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	87.68%

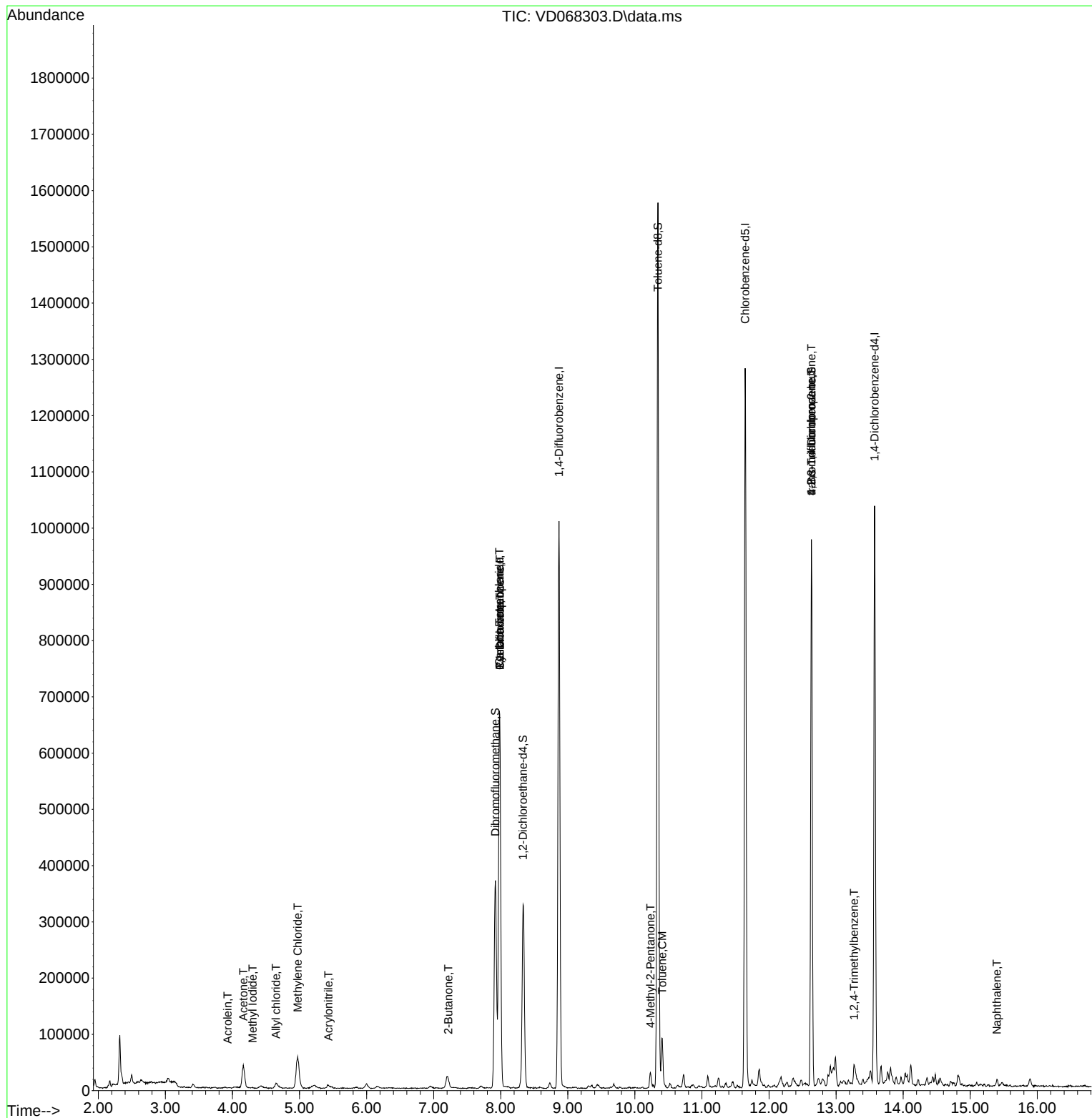
Target Compounds					Qvalue
10) Methyl Iodide	4.303	142	285	3.20 ug/l #	38
11) Tert butyl alcohol	5.226	59	10046	Below Cal	95
13) Acrolein	3.926	56	1410	3.54 ug/l #	50
14) Allyl chloride	4.650	41	15779	1.87 ug/l #	28
15) Acrylonitrile	5.432	53	6810	5.91 ug/l #	90
16) Acetone	4.162	43	69998	77.49 ug/l	92
20) Methylene Chloride	4.973	84	45446	3.48 ug/l	96
25) 2-Butanone	7.220	43	10753	7.91 ug/l	99
31) Cyclohexane	7.985	56	12048	1.10 ug/l #	11
36) 1,1-Dichloropropene	7.985	75	40623	4.40 ug/l #	48
38) Carbon Tetrachloride	7.979	117	52351	6.06 ug/l #	16
51) 4-Methyl-2-Pentanone	10.232	43	17843	5.64 ug/l	97
52) Toluene	10.408	92	38100	2.26 ug/l	94
76) 1,2,3-Trichloropropane	12.632	75	159302	58.62 ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.632	75	159302	118.62 ug/l #	13
84) 1,2,4-Trimethylbenzene	13.267	105	21893	1.13 ug/l	97
95) Naphthalene	15.396	128	12115	1.14 ug/l #	94

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

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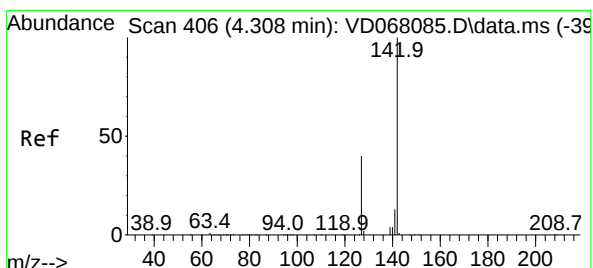
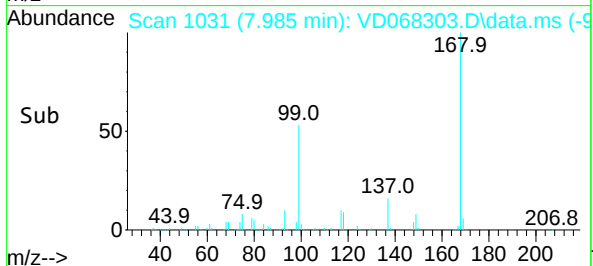
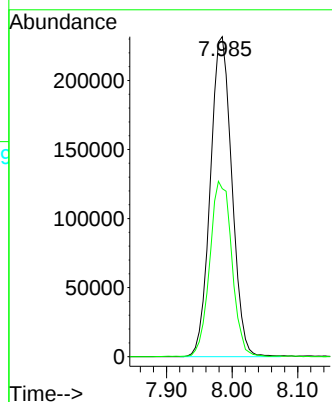
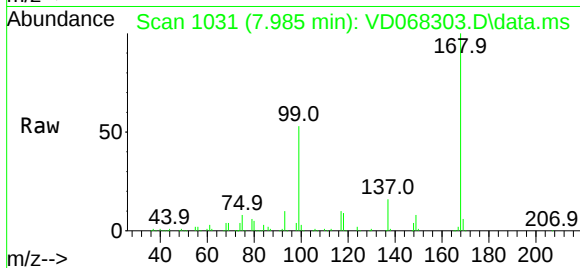




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

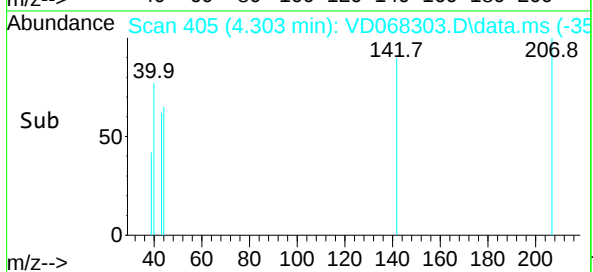
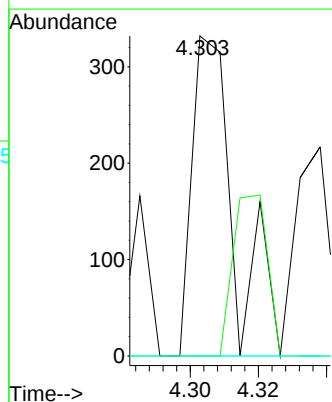
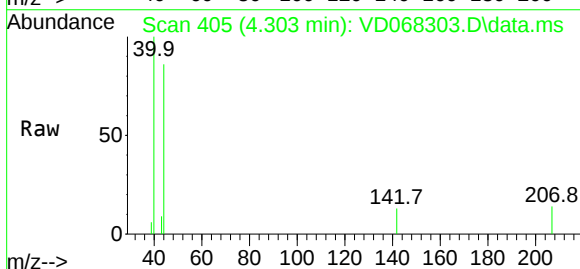
Instrument :
MSVOA_D
ClientSampled :
30752

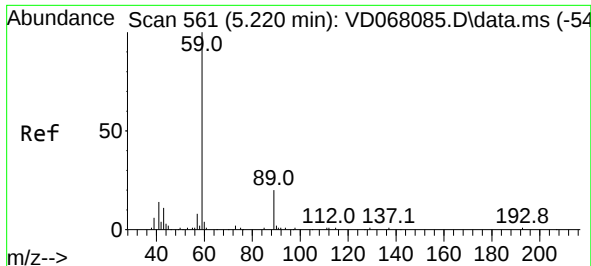
Tgt Ion:168 Resp: 528852
Ion Ratio Lower Upper
168 100
99 52.4 43.5 65.3



#10
Methyl Iodide
Concen: 3.20 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.005 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Tgt Ion:142 Resp: 285
Ion Ratio Lower Upper
142 100
127 0.0 37.9 56.9#
141 0.0 11.5 17.3#



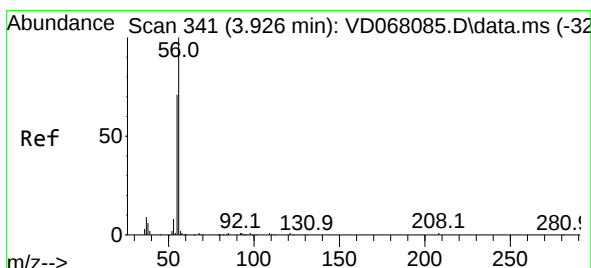
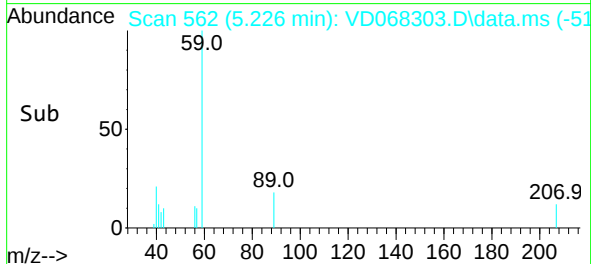
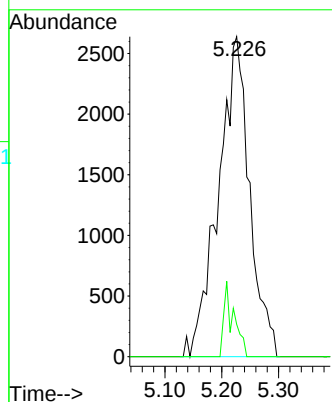
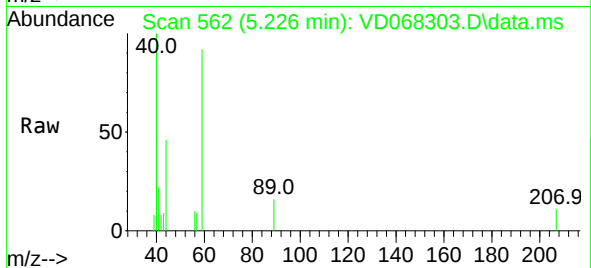


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.226 min Scan# 562
Delta R.T. 0.006 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Instrument :
MSVOA_D
ClientSampleId :
30752

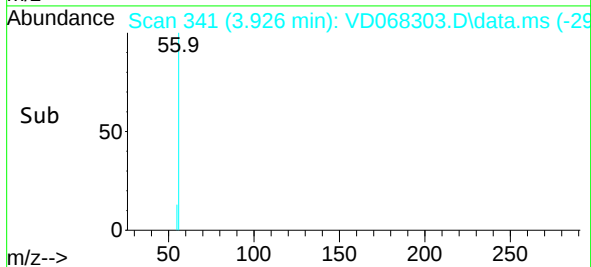
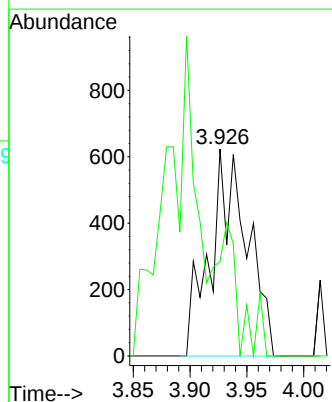
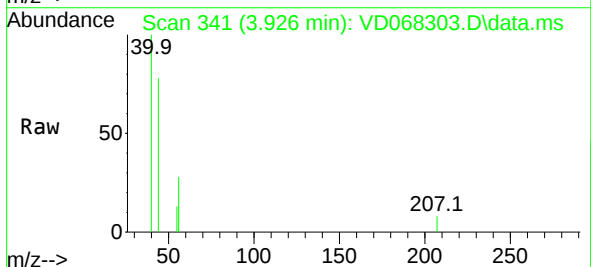
Tgt Ion: 59 Resp: 10046
Ion Ratio Lower Upper
59 100
57 7.6 7.4 11.2

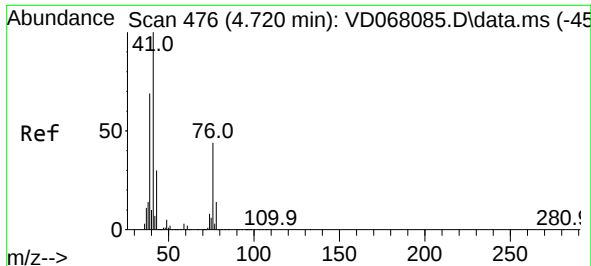


#13

Acrolein
Concen: 3.54 ug/l
RT: 3.926 min Scan# 341
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Tgt Ion: 56 Resp: 1410
Ion Ratio Lower Upper
56 100
55 29.5 56.5 84.7#

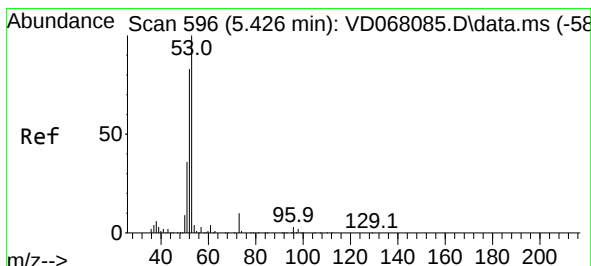
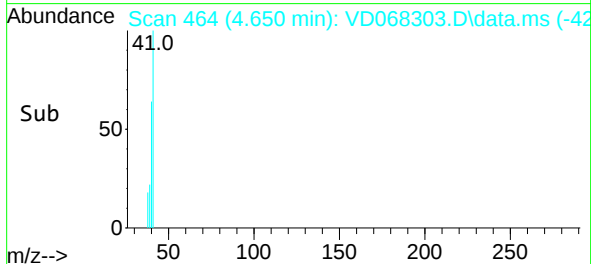
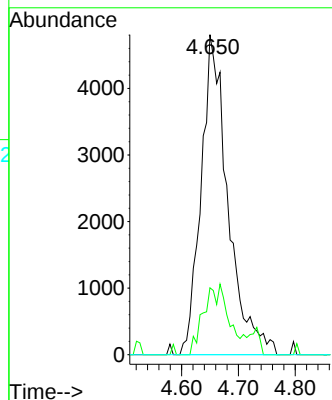
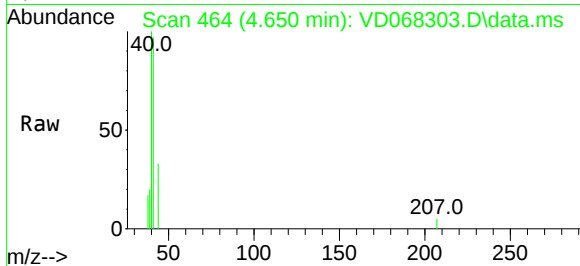




#14
 Allyl chloride
 Concen: 1.87 ug/l
 RT: 4.650 min Scan# 464
 Delta R.T. -0.070 min
 Lab File: VD068303.D
 Acq: 05 Feb 2021 16:19

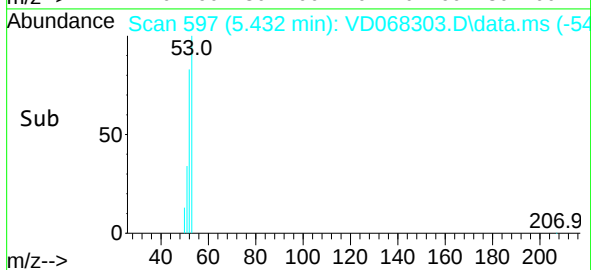
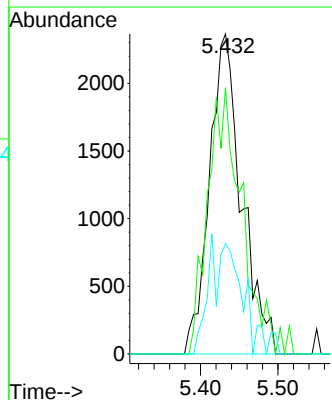
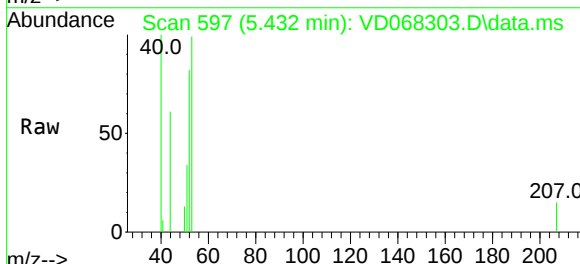
Instrument :
 MSVOA_D
 ClientSampled :
 30752

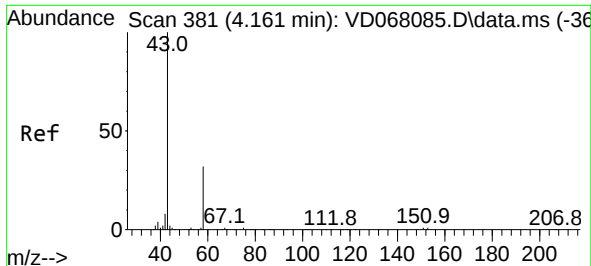
Tgt Ion:	41	Resp:	15779
Ion	Ratio	Lower	Upper
41	100		
39	11.3	56.3	84.5#
76	0.0	38.9	58.3#



#15
 Acrylonitrile
 Concen: 5.91 ug/l
 RT: 5.432 min Scan# 597
 Delta R.T. 0.006 min
 Lab File: VD068303.D
 Acq: 05 Feb 2021 16:19

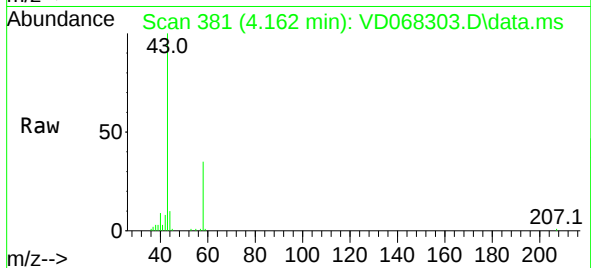
Tgt Ion:	53	Resp:	6810
Ion	Ratio	Lower	Upper
53	100		
52	87.4	66.2	99.2
51	24.7	29.0	43.4#



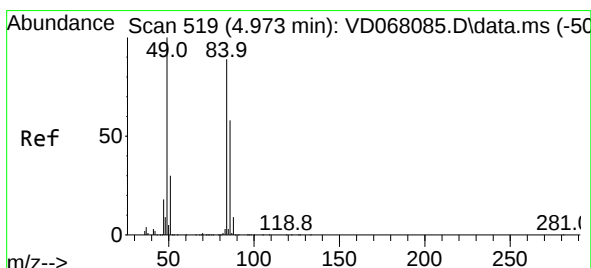
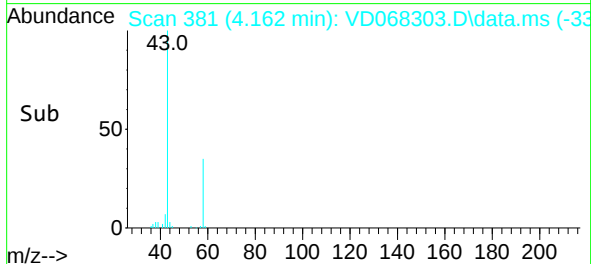
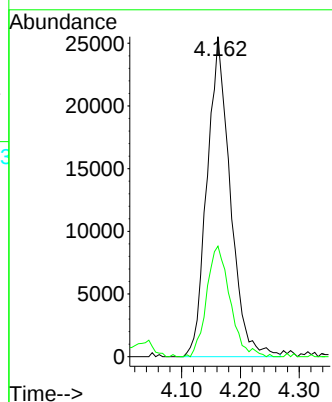


#16
Acetone
Concen: 77.49 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Instrument :
MSVOA_D
ClientSampleId :
30752

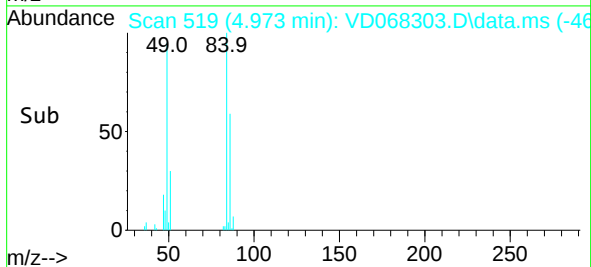
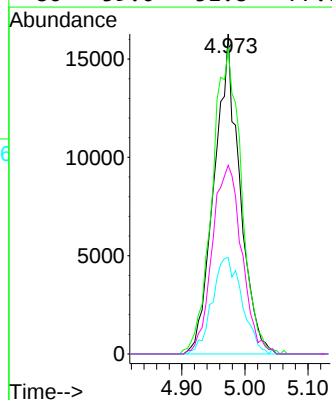
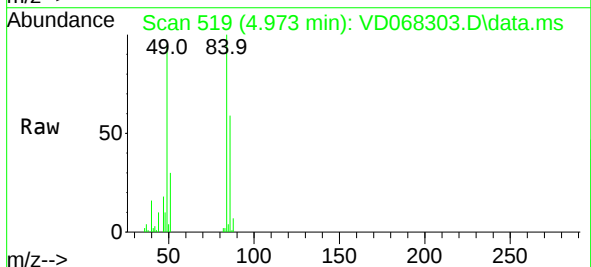


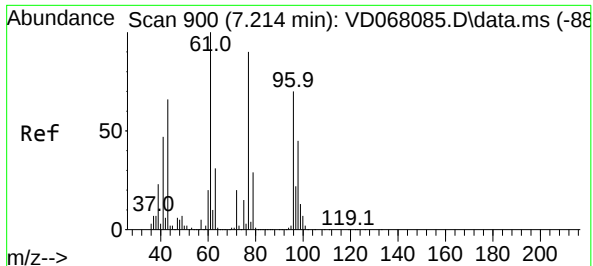
Tgt Ion: 43 Resp: 69998
Ion Ratio Lower Upper
43 100
58 34.6 24.2 36.4



#20
Methylene Chloride
Concen: 3.48 ug/l
RT: 4.973 min Scan# 519
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Tgt Ion: 84 Resp: 45446
Ion Ratio Lower Upper
84 100
49 95.4 77.4 116.2
51 30.1 26.1 39.1
86 59.0 51.8 77.8

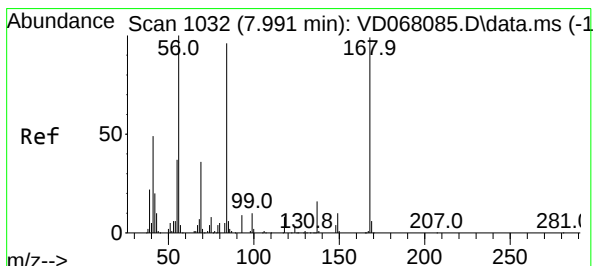
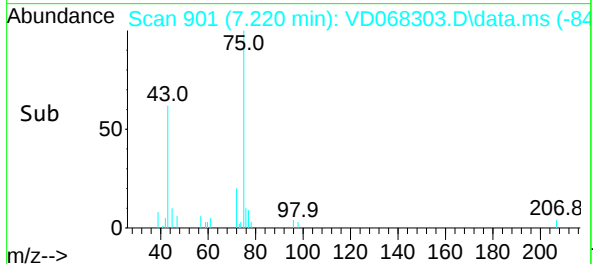
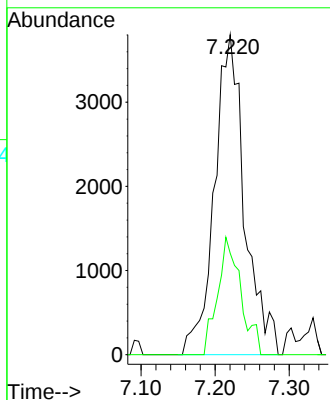
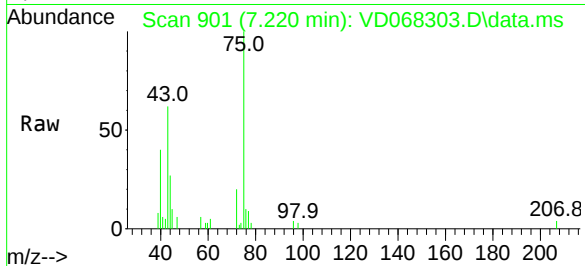




#25
2-Butanone
Concen: 7.91 ug/l
RT: 7.220 min Scan# 901
Delta R.T. 0.006 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

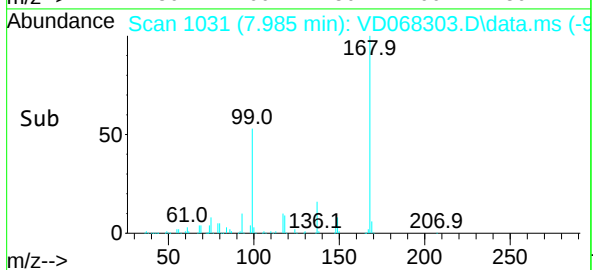
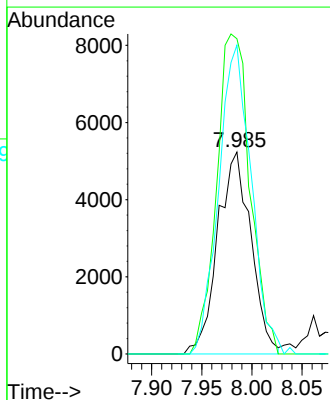
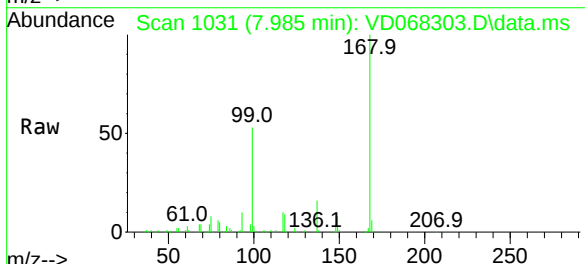
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ClientSampleId :
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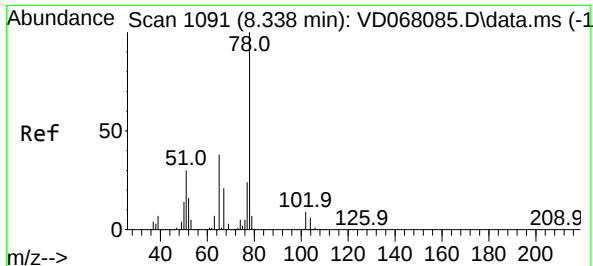
Tgt Ion: 43 Resp: 10753
Ion Ratio Lower Upper
43 100
72 31.7 25.1 37.7



#31
Cyclohexane
Concen: 1.10 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Tgt Ion: 56 Resp: 12048
Ion Ratio Lower Upper
56 100
69 156.1 30.1 45.1#
84 153.0 82.1 123.1#

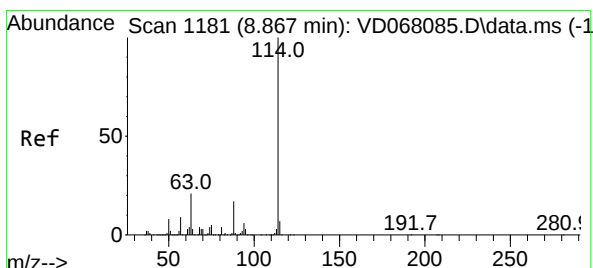
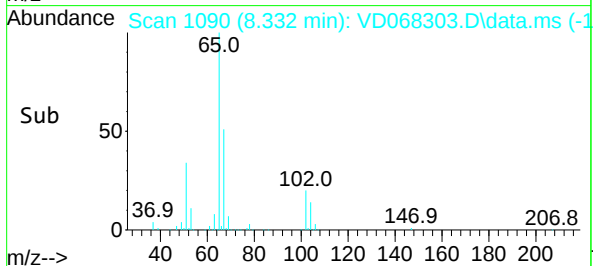
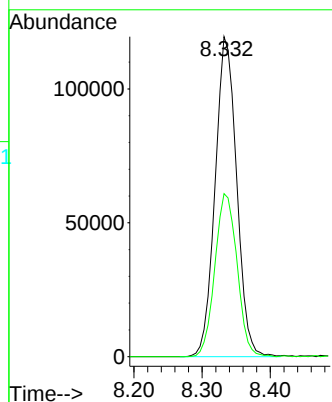
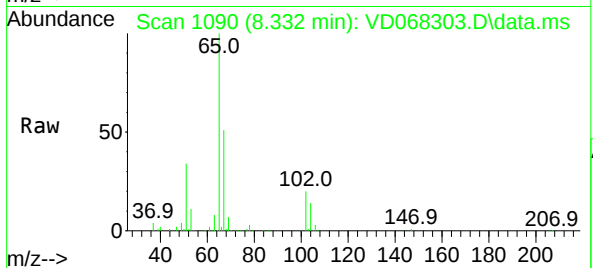




#33
1,2-Dichloroethane-d4
Concen: 51.96 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

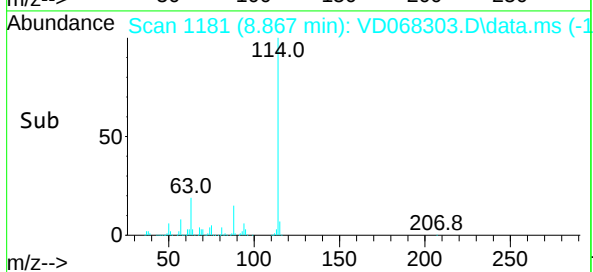
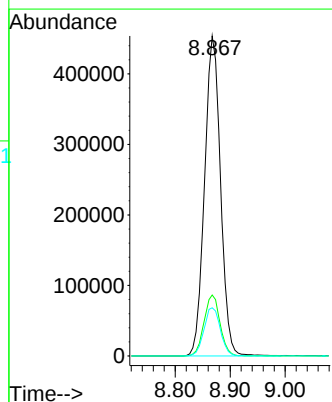
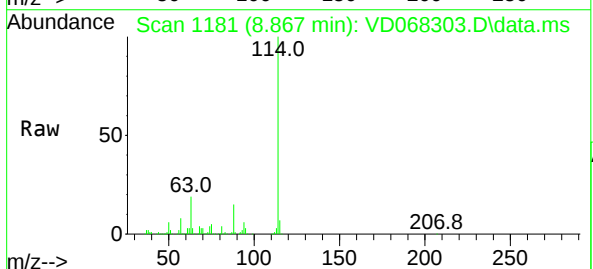
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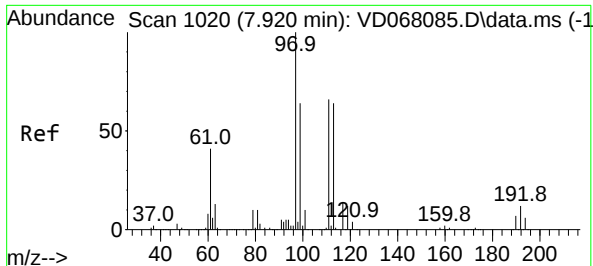
Tgt Ion: 65 Resp: 262854
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.0



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Tgt Ion: 114 Resp: 915932
Ion Ratio Lower Upper
114 100
63 19.1 0.0 34.8
88 15.0 0.0 31.6



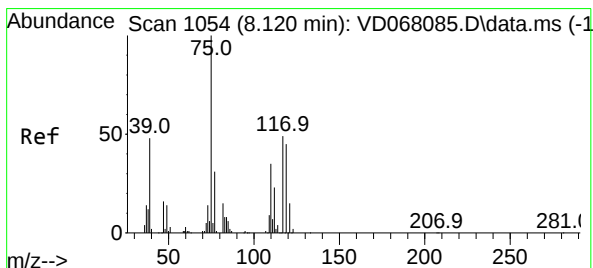
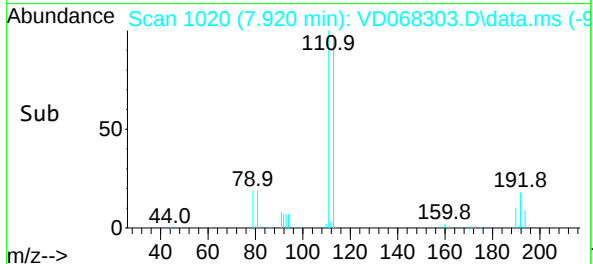
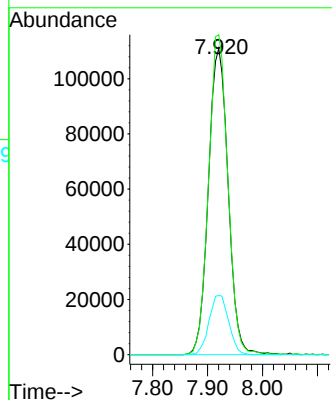
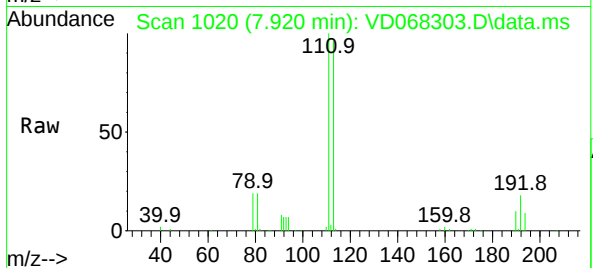


#35

Dibromofluoromethane
Concen: 54.69 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Instrument :
MSVOA_D
ClientSampled :
30752

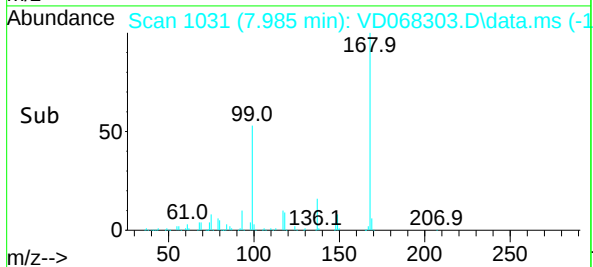
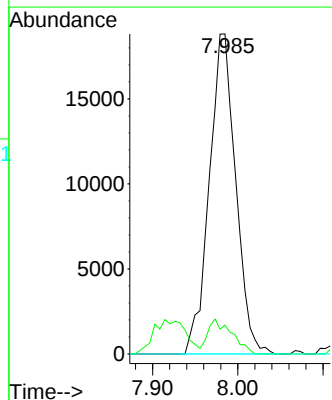
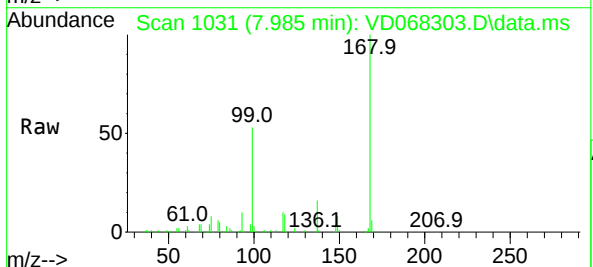
Tgt Ion:113 Resp: 276939
Ion Ratio Lower Upper
113 100
111 102.0 81.4 122.0
192 19.2 16.1 24.1

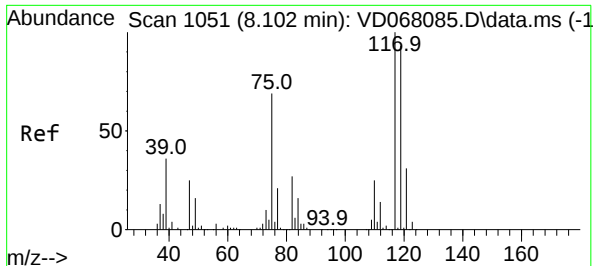


#36

1,1-Dichloropropene
Concen: 4.40 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.135 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

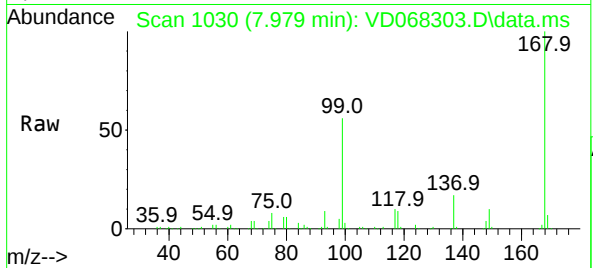
Tgt Ion: 75 Resp: 40623
Ion Ratio Lower Upper
75 100
110 9.9 19.4 58.2#
77 0.0 25.3 37.9#



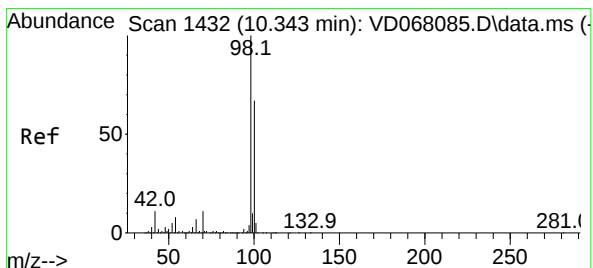
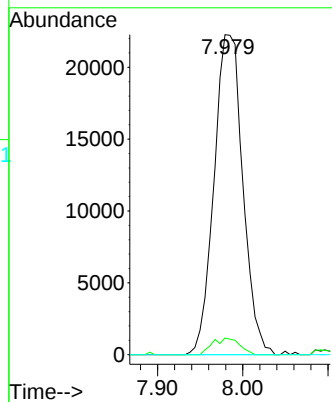
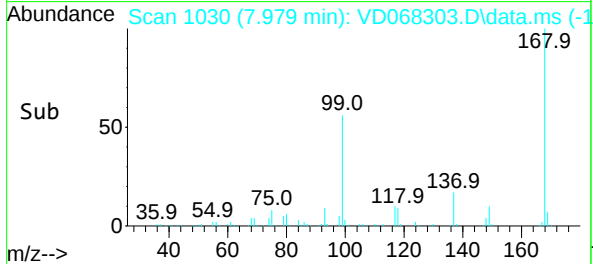


#38
Carbon Tetrachloride
Concen: 6.06 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.123 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

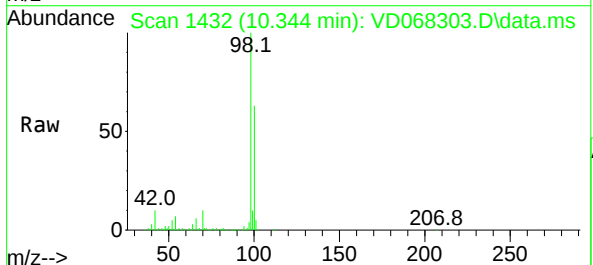
Instrument :
MSVOA_D
ClientSampled :
30752



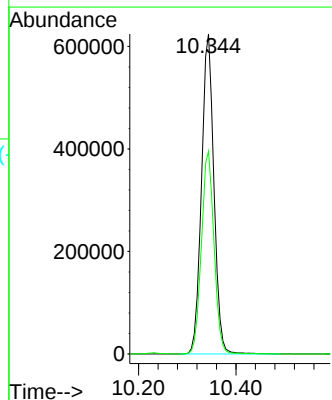
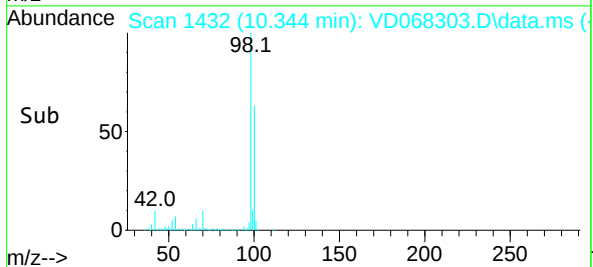
Tgt Ion:117 Resp: 52351
Ion Ratio Lower Upper
117 100
119 5.2 77.3 115.9#
121 0.0 24.7 37.1#

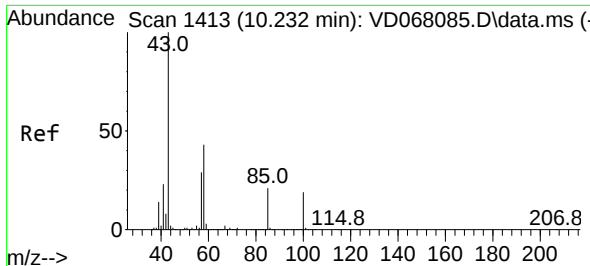


#50
Toluene-d8
Concen: 54.49 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19



Tgt Ion: 98 Resp: 1103745
Ion Ratio Lower Upper
98 100
100 64.6 53.0 79.4

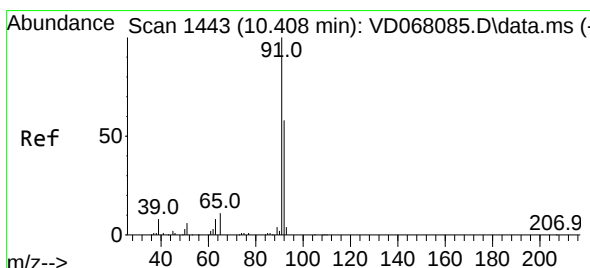
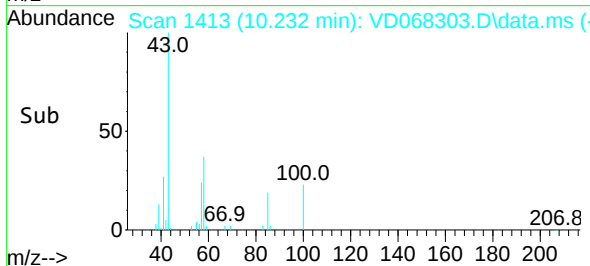
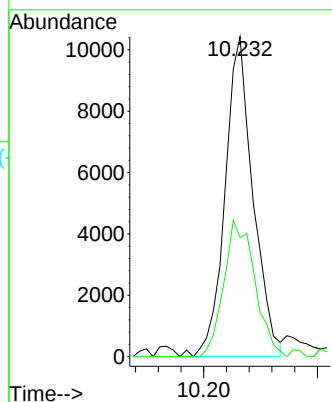
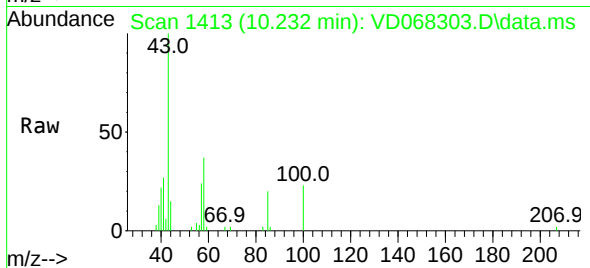




#51
4-Methyl-2-Pentanone
Concen: 5.64 ug/l
RT: 10.232 min Scan# 1413
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

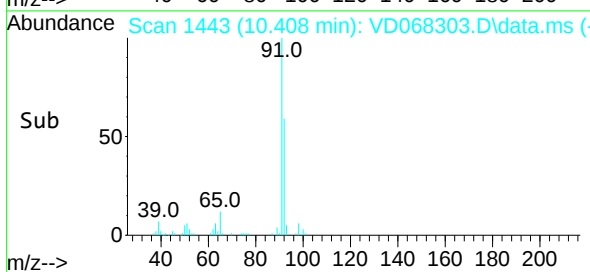
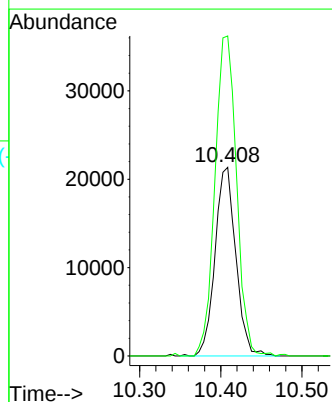
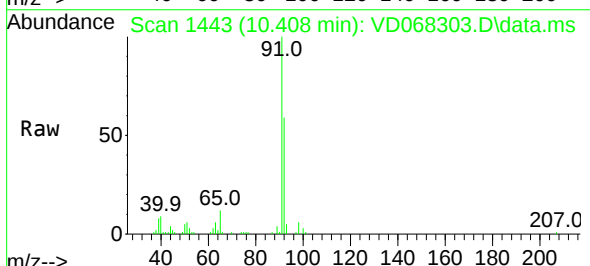
Instrument :
MSVOA_D
ClientSampled :
30752

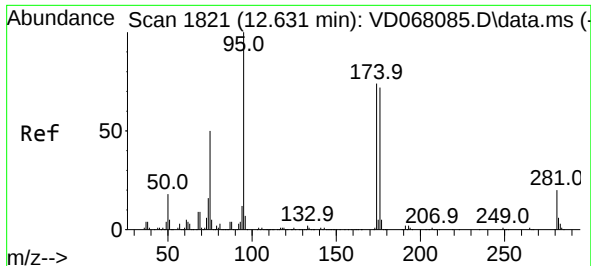
Tgt Ion: 43 Resp: 17843
Ion Ratio Lower Upper
43 100
58 47.1 36.1 54.1



#52
Toluene
Concen: 2.26 ug/l
RT: 10.408 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Tgt Ion: 92 Resp: 38100
Ion Ratio Lower Upper
92 100
91 175.9 134.1 201.1

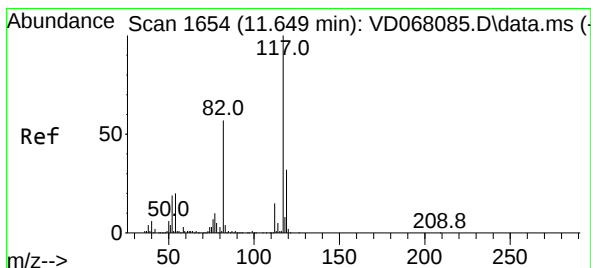
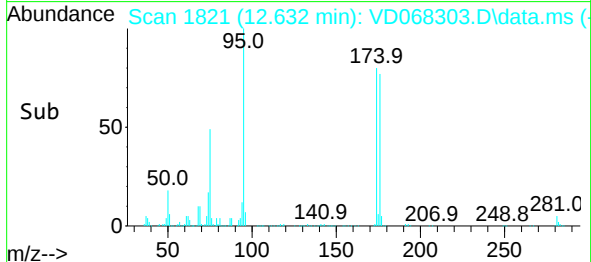
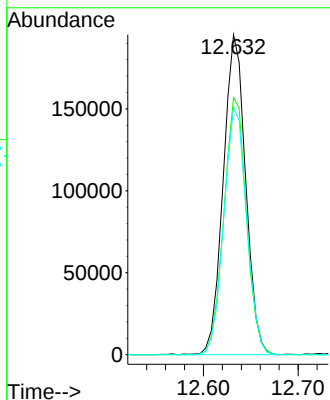
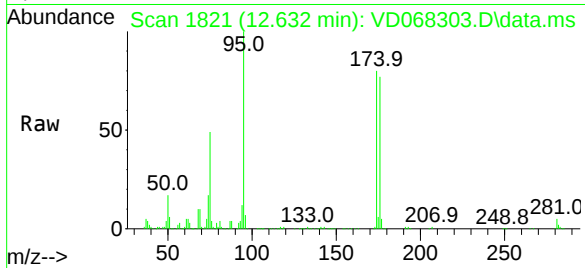




#62
4-Bromofluorobenzene
Concen: 43.84 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

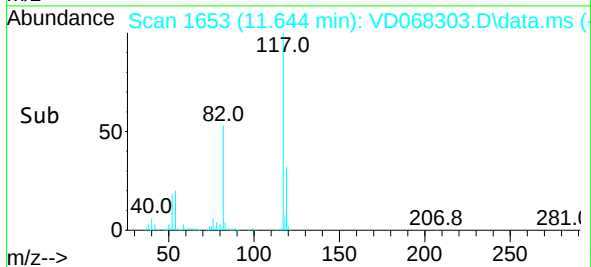
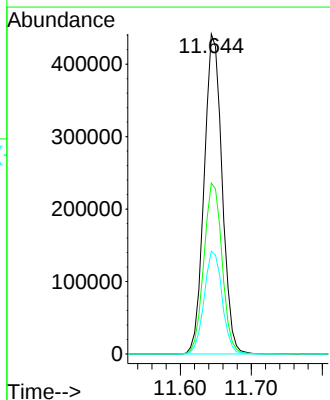
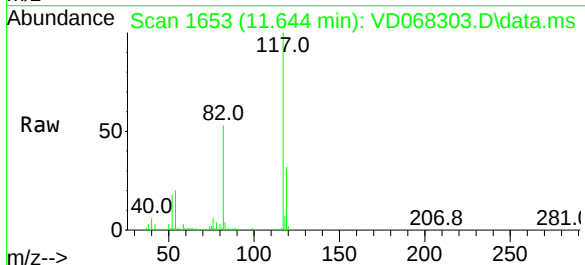
Instrument :
MSVOA_D
ClientSampleId :
30752

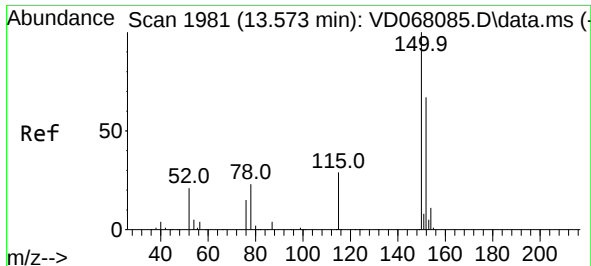
Tgt Ion: 95 Resp: 319769
Ion Ratio Lower Upper
95 100
174 81.1 0.0 172.4
176 78.7 0.0 168.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. -0.005 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

Tgt Ion: 117 Resp: 774496
Ion Ratio Lower Upper
117 100
82 53.4 41.4 62.0
119 32.1 26.1 39.1

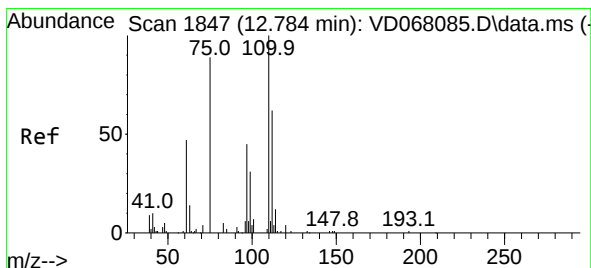
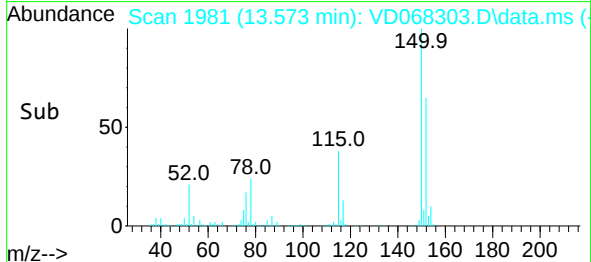
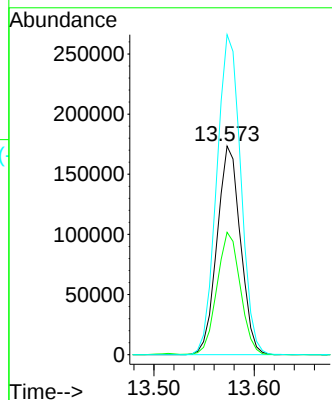
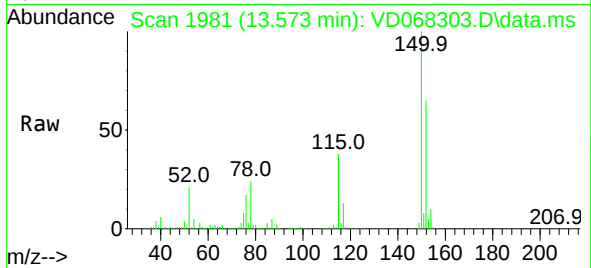




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

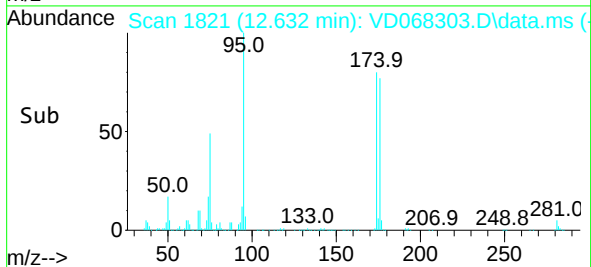
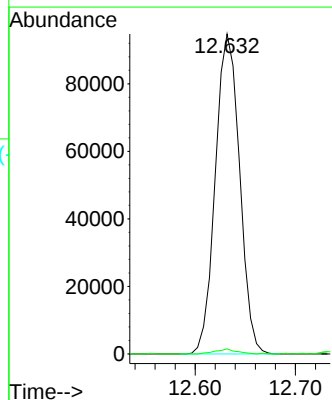
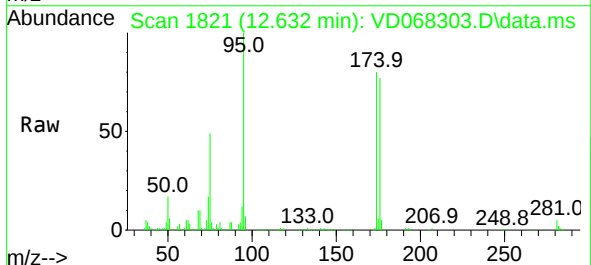
Instrument :
MSVOA_D
ClientSampleId :
30752

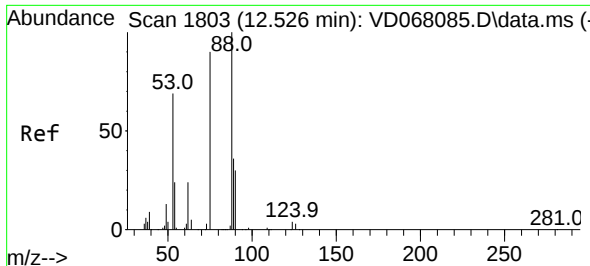
Tgt Ion:152 Resp: 281057
Ion Ratio Lower Upper
152 100
115 58.7 28.9 86.8
150 157.6 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 58.62 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.153 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

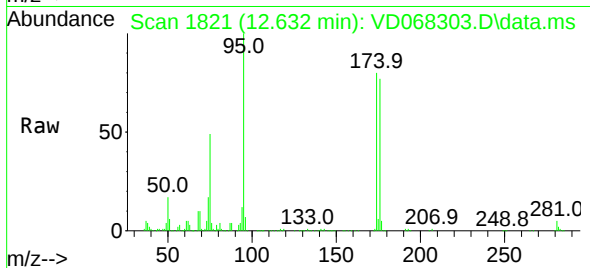
Tgt Ion: 75 Resp: 159302
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



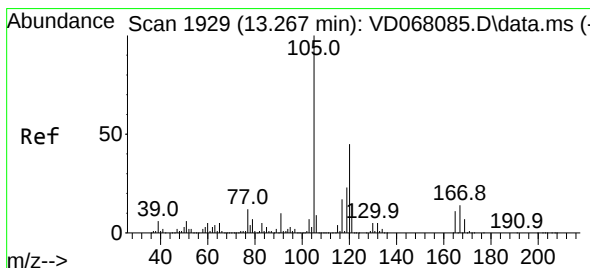
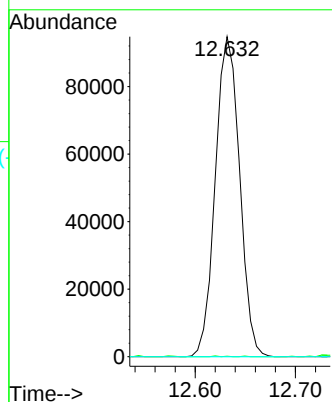
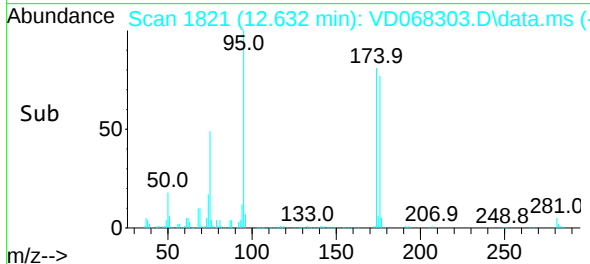


#81
trans-1,4-Dichloro-2-butene
Concen: 118.62 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19

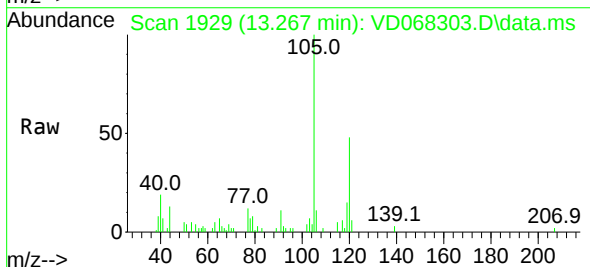
Instrument :
MSVOA_D
ClientSampled :
30752



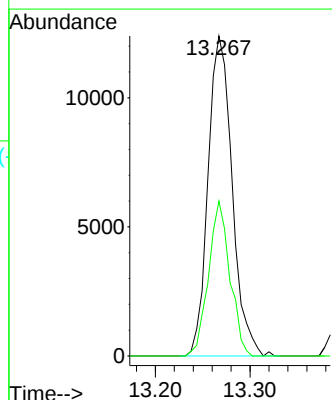
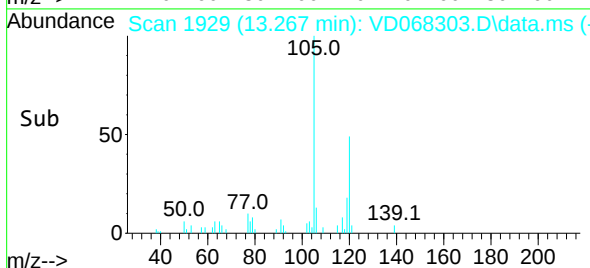
Tgt Ion: 75 Resp: 159302
Ion Ratio Lower Upper
75 100
53 0.1 70.2 105.2#
89 0.0 40.3 60.5#

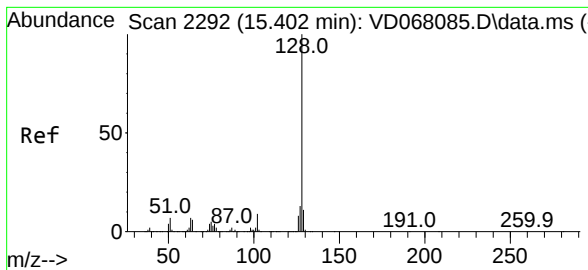


#84
1,2,4-Trimethylbenzene
Concen: 1.13 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.000 min
Lab File: VD068303.D
Acq: 05 Feb 2021 16:19



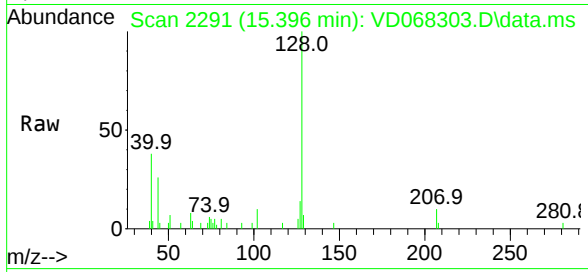
Tgt Ion: 105 Resp: 21893
Ion Ratio Lower Upper
105 100
120 42.9 22.4 67.0





#95
 Naphthalene
 Concen: 1.14 ug/l
 RT: 15.396 min Scan# 2291
 Delta R.T. -0.006 min
 Lab File: VD068303.D
 Acq: 05 Feb 2021 16:19

Instrument :
 MSVOA_D
 ClientSampleId :
 30752



Tgt Ion:	128	Resp:	12115
Ion	Ratio	Lower	Upper
128	100		
127	15.7	10.2	15.2#
129	9.8	8.8	13.2

