

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051022\
 Data File : VD072910.D
 Acq On : 10 May 2022 13:12
 Operator : VA/SY
 Sample : N2672-05
 Misc : 6.50G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

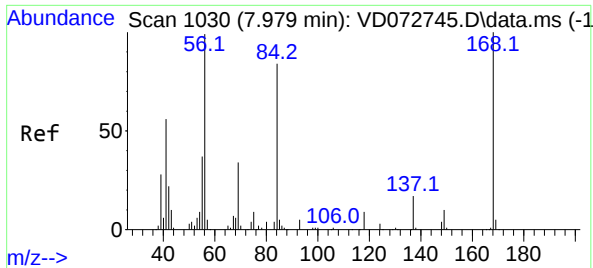
Instrument :
 MSVOA_D
 ClientSampleId :
 05

Quant Time: May 11 05:50:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050222S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 03 08:33:49 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.973	168	400834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	745574	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	730166	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	330463	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	233125	44.805	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.600%		
35) Dibromofluoromethane	7.908	113	233190	44.534	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	89.060%		
50) Toluene-d8	10.332	98	932814	49.663	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	99.320%		
62) 4-Bromofluorobenzene	12.620	95	359828	51.377	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	102.760%		
Target Compounds						Qvalue
5) Bromomethane	2.773	94	1237	Below Cal		96
16) Acetone	4.161	43	3070	Below Cal		98
18) Methyl Acetate	4.708	43	135	Below Cal	#	55
20) Methylene Chloride	4.961	84	20638	Below Cal	#	81
31) Cyclohexane	7.967	56	9910	1.090	ug/l #	8
38) Carbon Tetrachloride	7.973	117	44260	5.008	ug/l #	15
39) Methylcyclohexane	9.355	83	15656	1.585	ug/l #	82
51) 4-Methyl-2-Pentanone	10.332	43	11718	3.122	ug/l #	40
55) 1,1,2-Trichloroethane	10.767	97	44465	9.234	ug/l #	19
56) Ethyl methacrylate	10.673	69	9619	1.697	ug/l #	17
59) 2-Hexanone	10.943	43	109454	43.331	ug/l #	32
67) Ethyl Benzene	11.738	91	67660	2.315	ug/l	94
69) o-Xylene	12.167	106	116515	11.081	ug/l	100
73) Isopropylbenzene	12.467	105	95479	3.714	ug/l	99
74) N-ethyl acetate	12.261	43	486754	76.022	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	12.696	83	12697	2.446	ug/l #	27
76) 1,2,3-Trichloropropane	12.902	75	5619	1.525	ug/l #	100
78) n-propylbenzene	12.808	91	204030	6.296	ug/l	100
79) 2-Chlorotoluene	12.902	91	68610	3.625	ug/l #	43
80) 1,3,5-Trimethylbenzene	12.949	105	678935	31.142	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.620	75	182523	113.906	ug/l #	7
82) 4-Chlorotoluene	12.949	91	82087	4.150	ug/l #	55
84) 1,2,4-Trimethylbenzene	13.108	105	1012672	46.471	ug/l	77
85) sec-Butylbenzene	13.384	105	269628	9.645	ug/l	89
86) p-Isopropyltoluene	13.502	119	241983	10.558	ug/l	99
89) n-Butylbenzene	13.826	91	129857	5.849	ug/l #	61
90) Hexachloroethane	14.102	117	75178	16.011	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.508	75	4496	5.465	ug/l #	39
95) Naphthalene	15.343	128	35947	3.080	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.596	180	8905	1.582	ug/l #	60

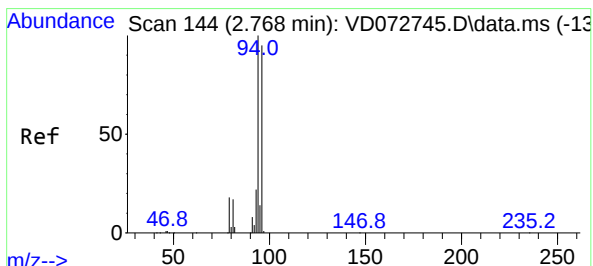
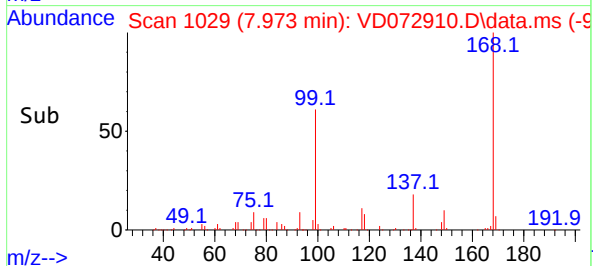
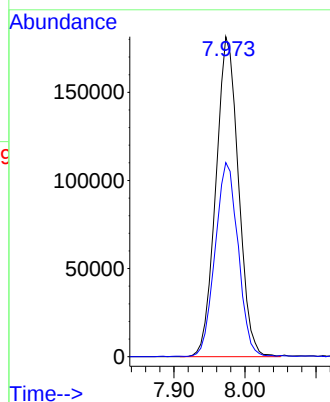
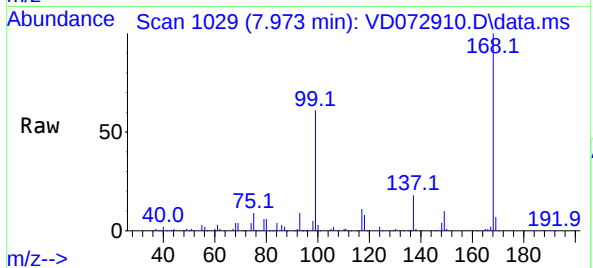
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

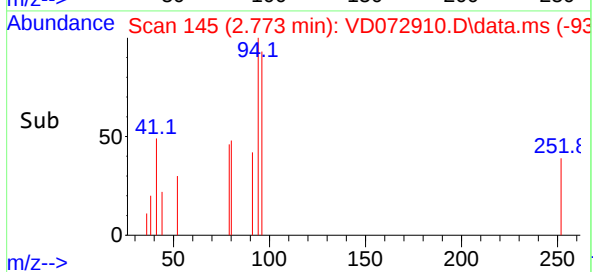
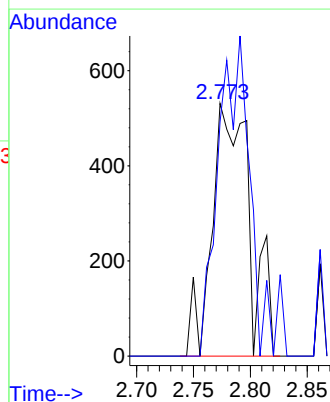
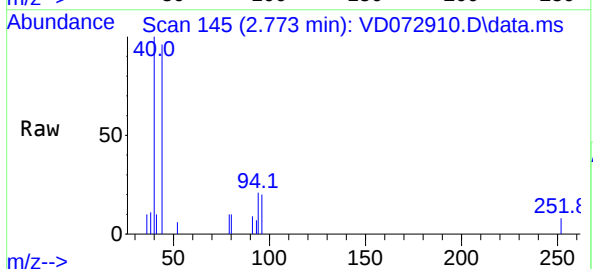
Instrument :
MSVOA_D
ClientSampleId :
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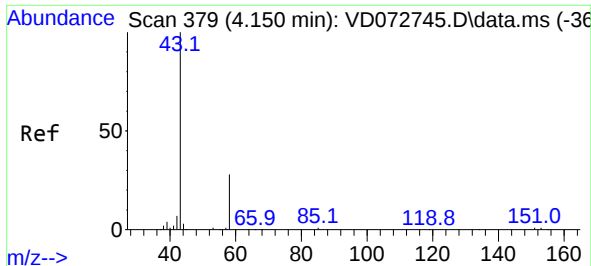
Tgt Ion:168 Resp: 400834
Ion Ratio Lower Upper
168 100
99 60.5 49.8 74.6



#5
Bromomethane
Concen: Below Cal
RT: 2.773 min Scan# 145
Delta R.T. 0.005 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 94 Resp: 1237
Ion Ratio Lower Upper
94 100
96 92.7 77.6 116.4

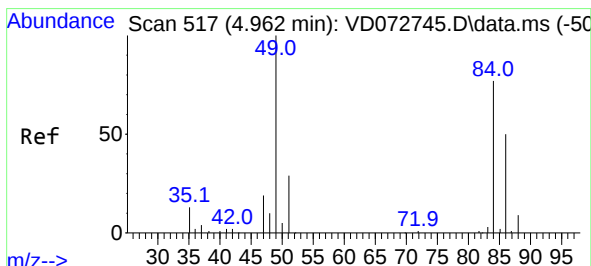
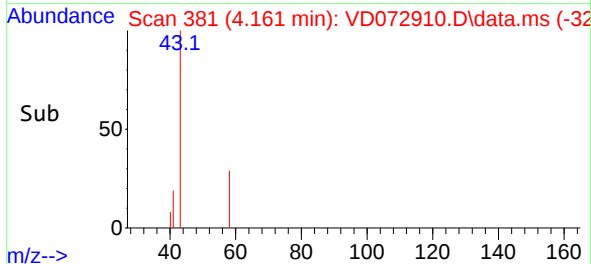
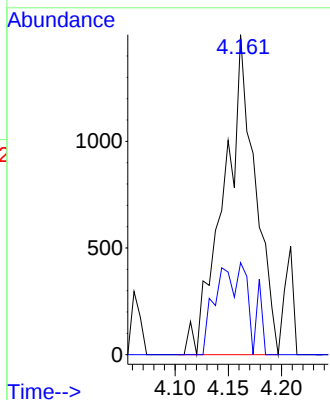
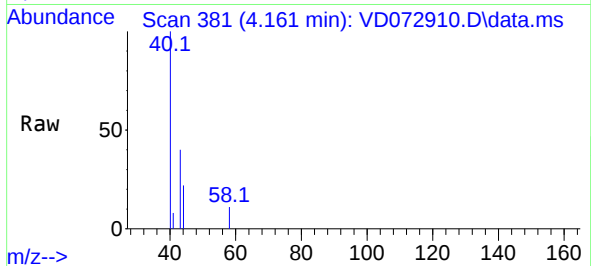




#16
Acetone
Concen: Below Cal
RT: 4.161 min Scan# 31
Delta R.T. 0.011 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

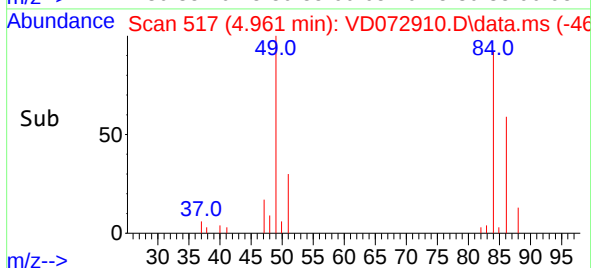
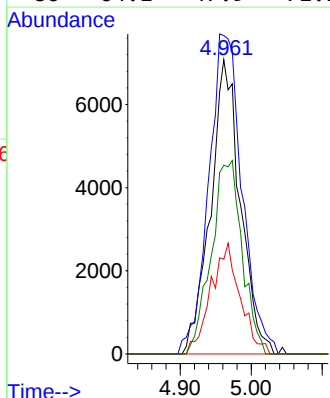
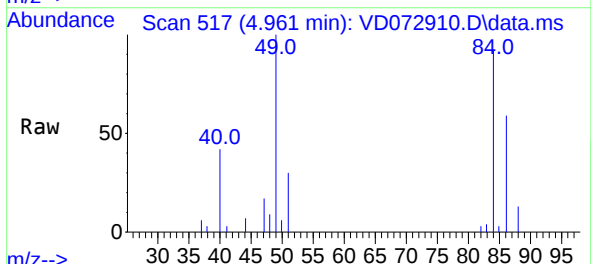
Instrument :
MSVOA_D
ClientSampleId :
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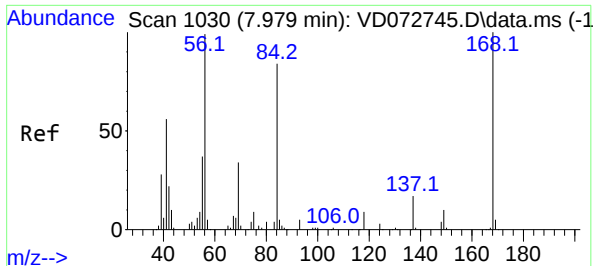
Tgt Ion: 43 Resp: 3070
Ion Ratio Lower Upper
43 100
58 28.7 22.1 33.1



#20
Methylene Chloride
Concen: Below Cal
RT: 4.961 min Scan# 517
Delta R.T. -0.001 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 84 Resp: 20638
Ion Ratio Lower Upper
84 100
49 108.2 112.8 169.2#
51 32.2 32.6 48.8#
86 64.1 47.9 71.9





#31

Cyclohexane

Concen: 1.090 ug/l

RT: 7.967 min Scan# 1028

Delta R.T. -0.012 min

Lab File: VD072910.D

Acq: 10 May 2022 13:12

Instrument :

MSVOA_D

ClientSampleId :

05

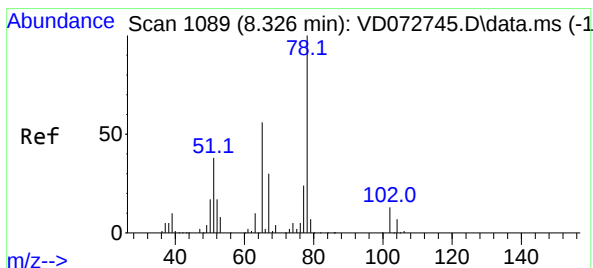
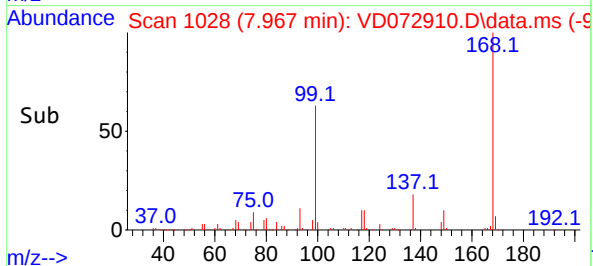
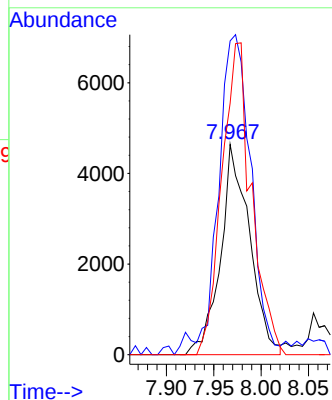
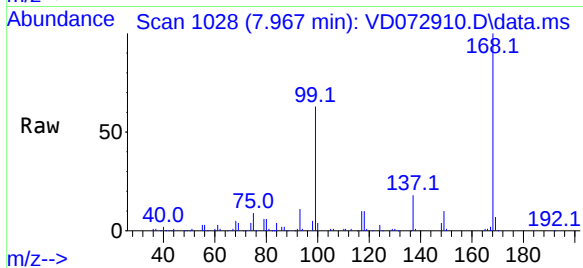
Tgt Ion: 56 Resp: 9910

Ion Ratio Lower Upper

56 100

69 145.3 25.4 38.2#

84 119.5 63.0 94.4#



#33

1,2-Dichloroethane-d4

Concen: 44.805 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VD072910.D

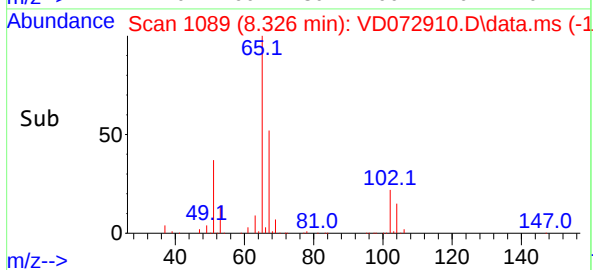
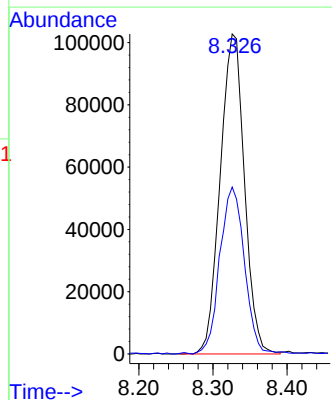
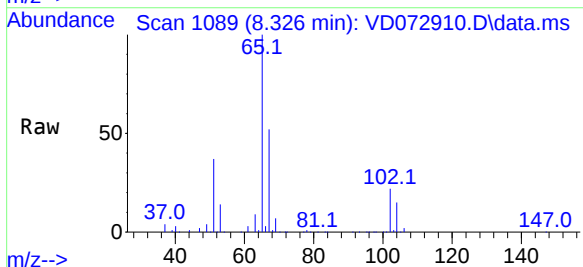
Acq: 10 May 2022 13:12

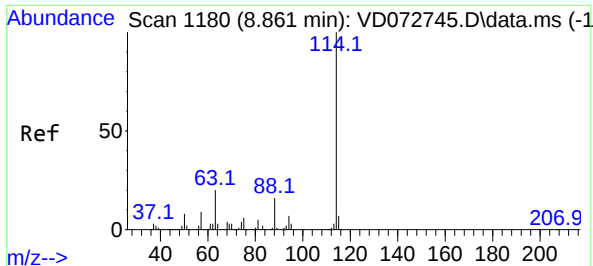
Tgt Ion: 65 Resp: 233125

Ion Ratio Lower Upper

65 100

67 53.1 0.0 101.4

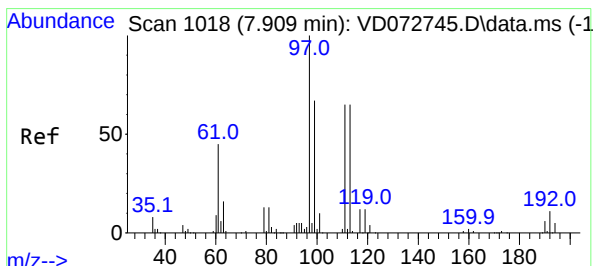
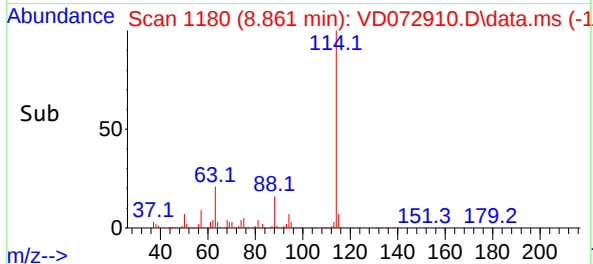
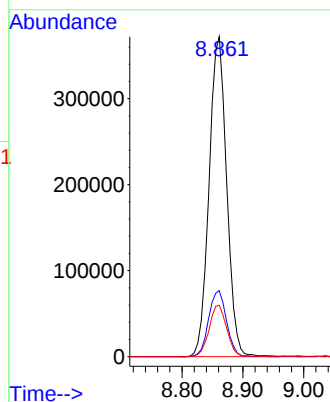
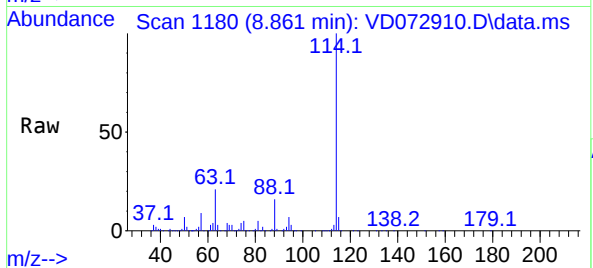




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

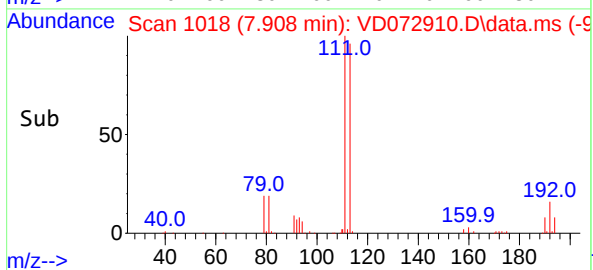
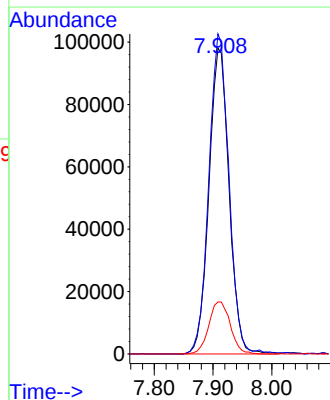
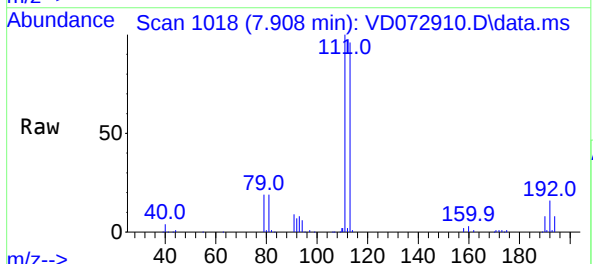
Instrument :
MSVOA_D
ClientSampleId :
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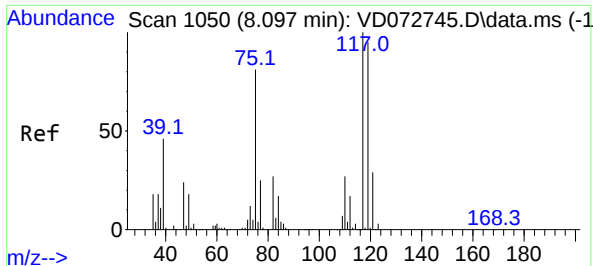
Tgt Ion:	114	Resp:	745574
Ion Ratio	Lower	Upper	
114	100		
63	20.7	0.0	46.6
88	16.1	0.0	33.2



#35
Dibromofluoromethane
Concen: 44.534 ug/l
RT: 7.908 min Scan# 1018
Delta R.T. -0.001 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion:	113	Resp:	233190
Ion Ratio	Lower	Upper	
113	100		
111	104.6	83.8	125.6
192	18.2	14.6	21.8

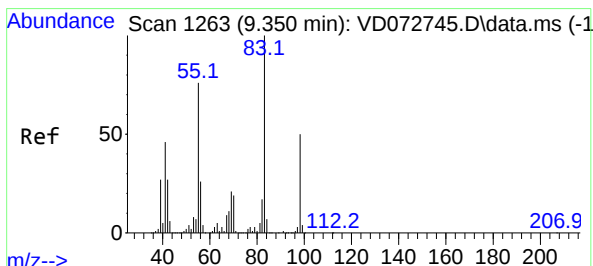
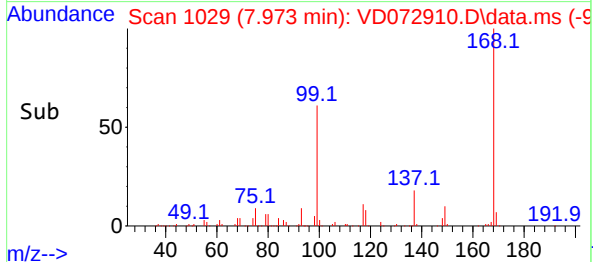
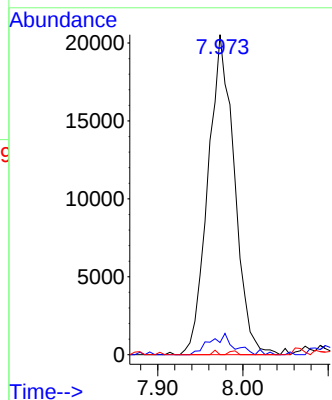
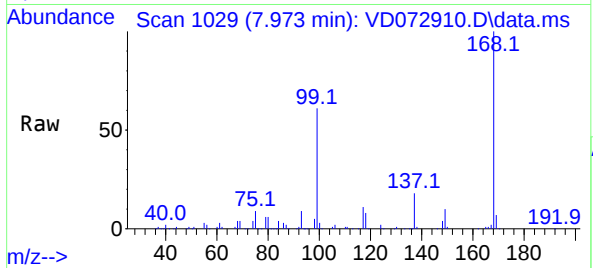




#38
Carbon Tetrachloride
Concen: 5.008 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

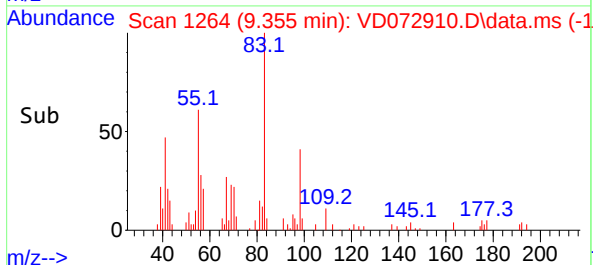
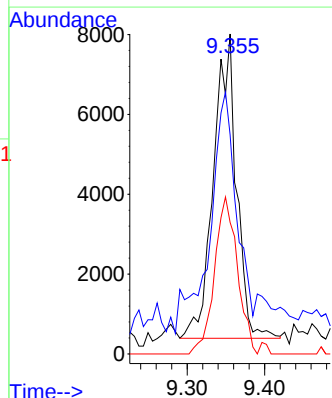
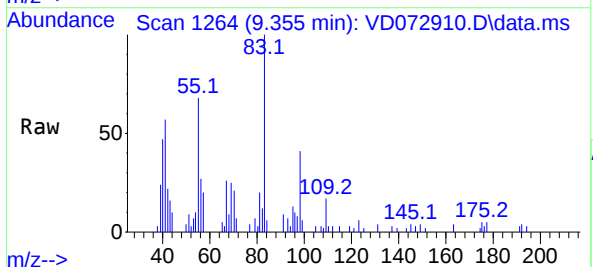
Instrument :
MSVOA_D
ClientSampleId :
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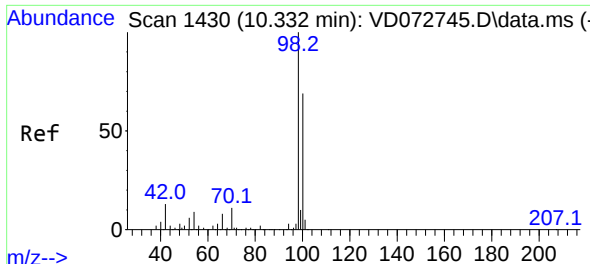
Tgt Ion:117 Resp: 44260
Ion Ratio Lower Upper
117 100
119 3.8 75.8 113.6#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 1.585 ug/l
RT: 9.355 min Scan# 1264
Delta R.T. 0.005 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 83 Resp: 15656
Ion Ratio Lower Upper
83 100
55 56.6 63.2 94.8#
98 43.2 38.2 57.4

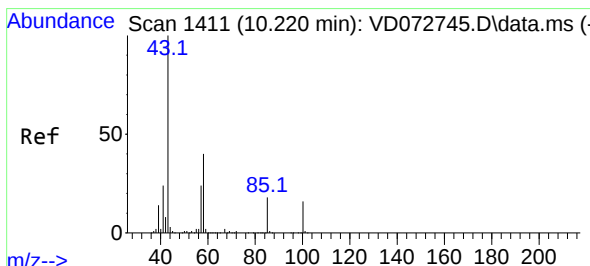
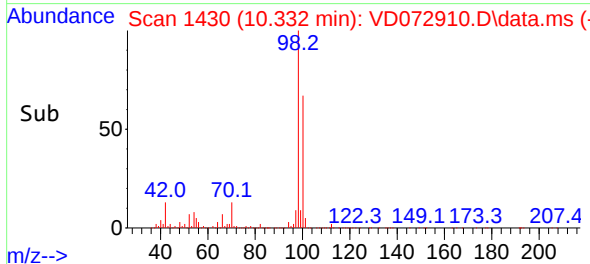
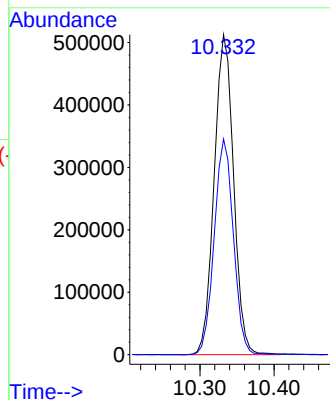
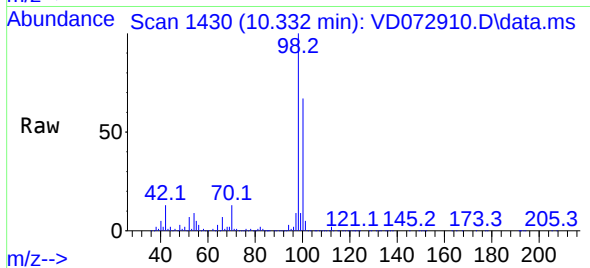




#50
Toluene-d8
Concen: 49.663 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

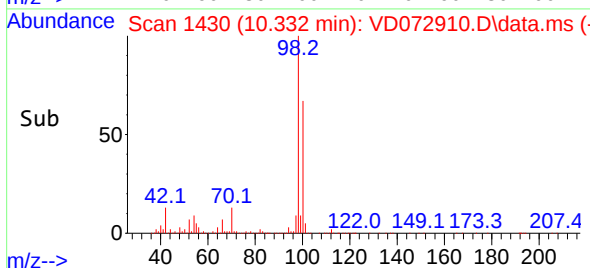
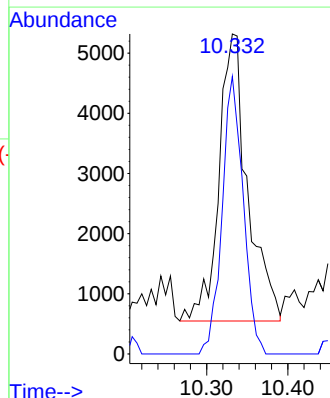
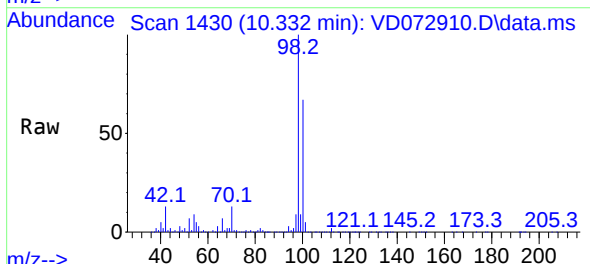
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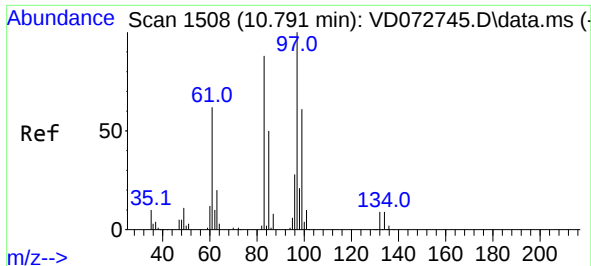
Tgt Ion: 98 Resp: 932814
Ion Ratio Lower Upper
98 100
100 66.6 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 3.122 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. 0.112 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 43 Resp: 11718
Ion Ratio Lower Upper
43 100
58 71.0 28.6 43.0#

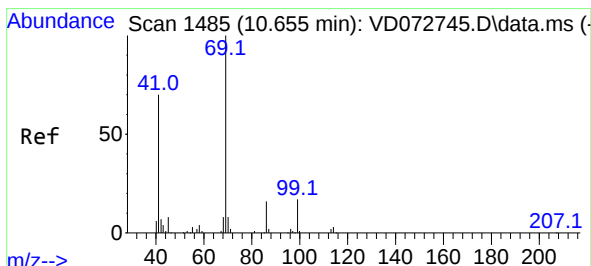
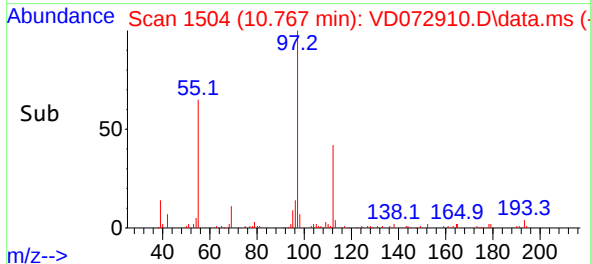
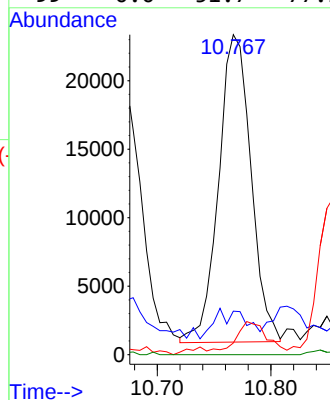
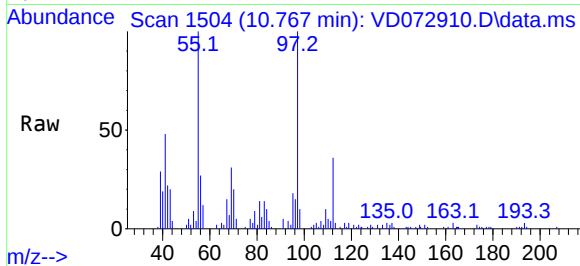




#55
1,1,2-Trichloroethane
Concen: 9.234 ug/l
RT: 10.767 min Scan# 11
Delta R.T. -0.024 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

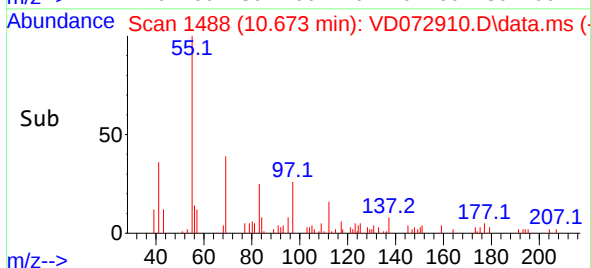
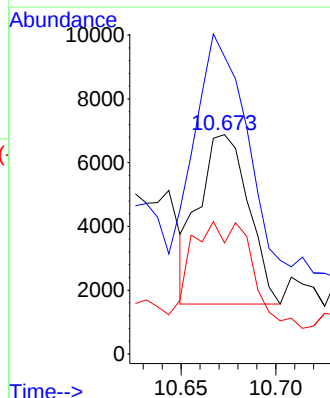
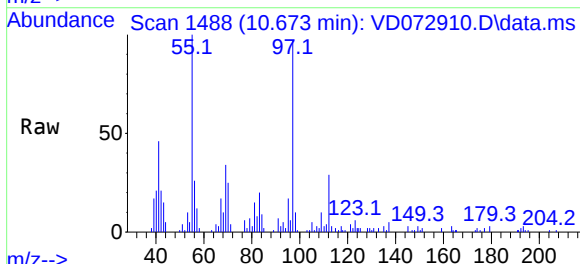
Instrument :
MSVOA_D
ClientSampleId :
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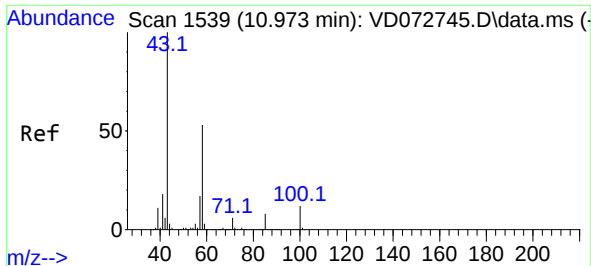
Tgt Ion:	97	Resp:	44465
Ion	Ratio	Lower	Upper
97	100		
83	6.0	69.0	103.4#
85	3.0	42.6	63.8#
99	0.0	51.7	77.5#



#56
Ethyl methacrylate
Concen: 1.697 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion:	69	Resp:	9619
Ion	Ratio	Lower	Upper
69	100		
41	163.3	63.0	94.6#
39	78.8	33.8	50.8#

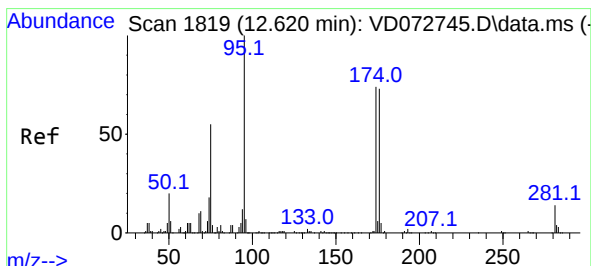
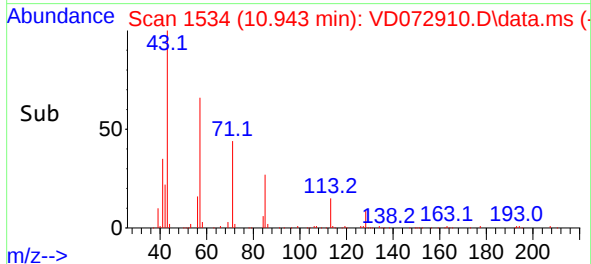
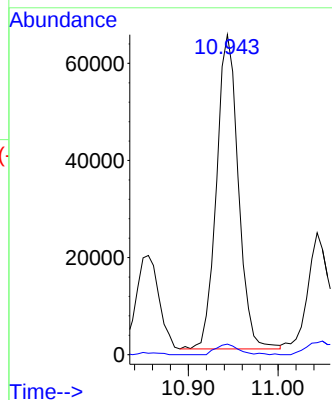
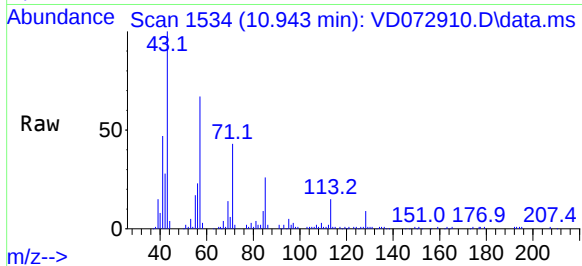




#59
2-Hexanone
Concen: 43.331 ug/l
RT: 10.943 min Scan# 11
Delta R.T. -0.030 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

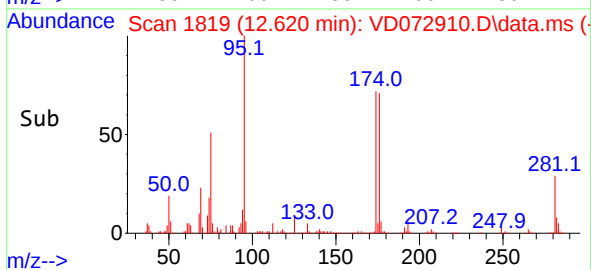
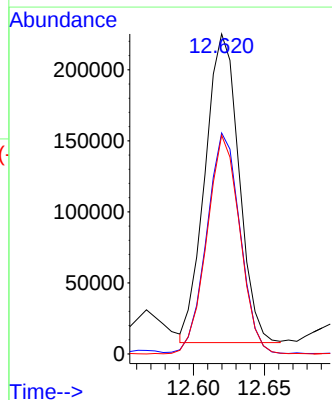
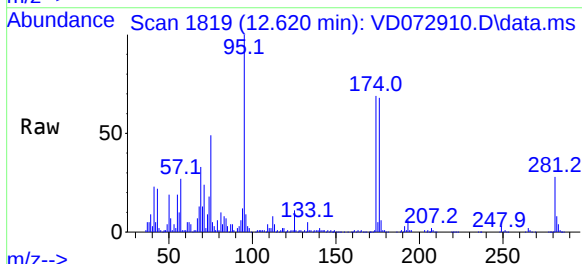
Instrument :
MSVOA_D
ClientSampleId :
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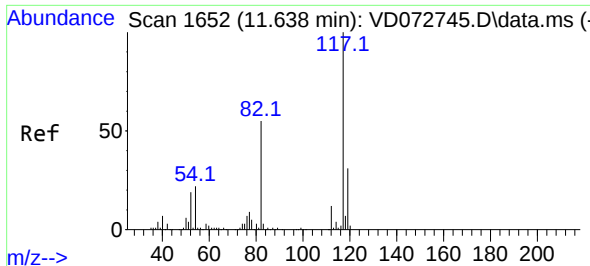
Tgt Ion: 43 Resp: 109454
Ion Ratio Lower Upper
43 100
58 3.6 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 51.377 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 95 Resp: 359828
Ion Ratio Lower Upper
95 100
174 70.3 0.0 152.8
176 69.0 0.0 145.4

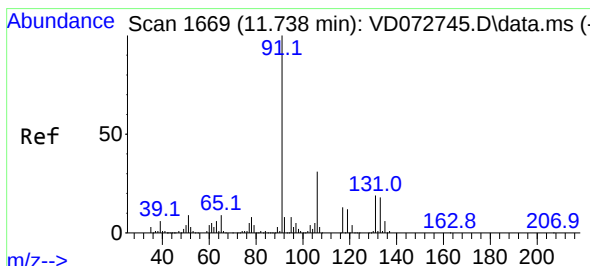
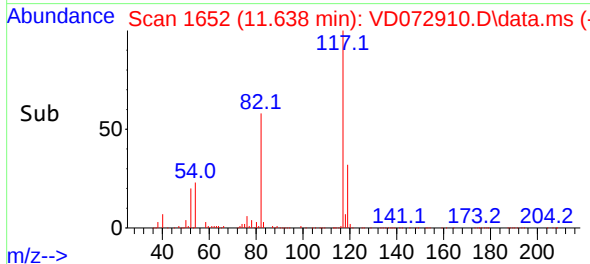
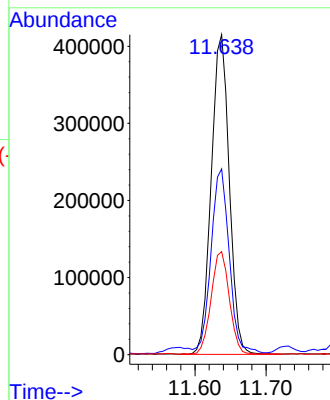
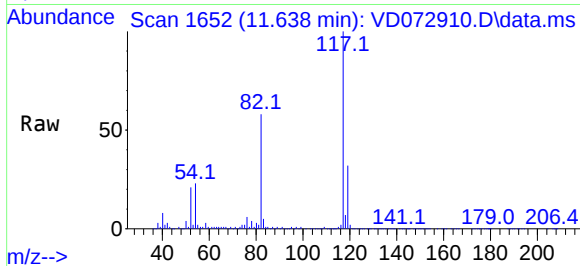




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

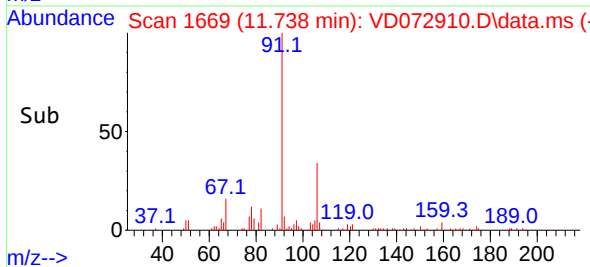
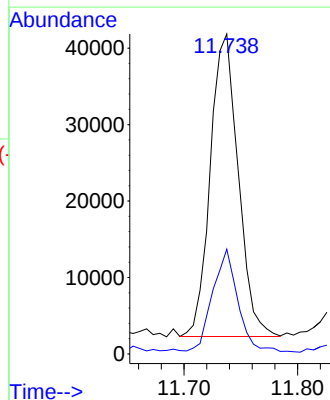
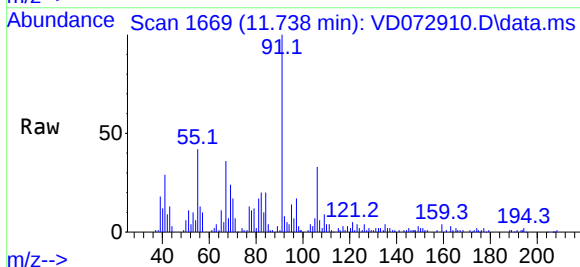
Instrument :
MSVOA_D
ClientSampleId :
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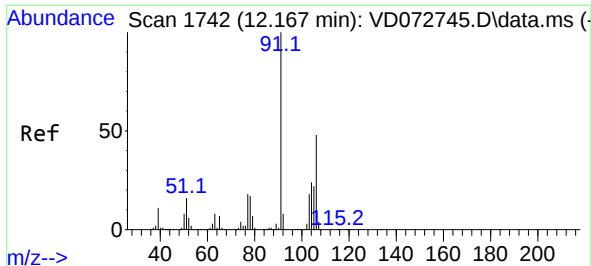
Tgt Ion:	117	Resp:	730166
Ion	Ratio	Lower	Upper
117	100		
82	55.8	45.3	67.9
119	32.0	26.6	40.0



#67
Ethyl Benzene
Concen: 2.315 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion:	91	Resp:	67660
Ion	Ratio	Lower	Upper
91	100		
106	33.8	24.2	36.4

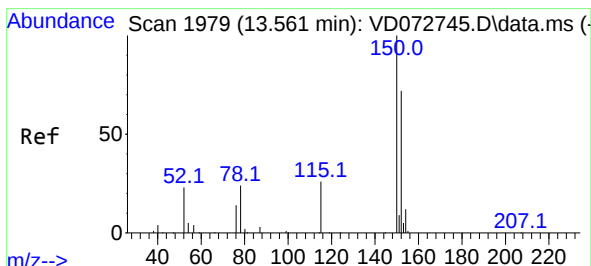
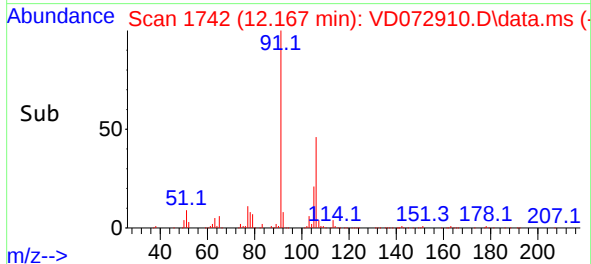
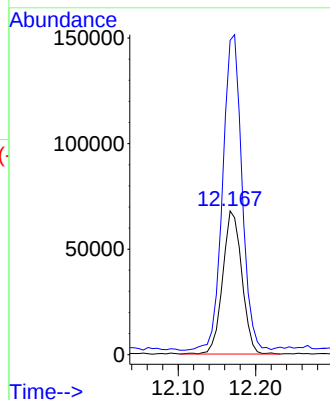
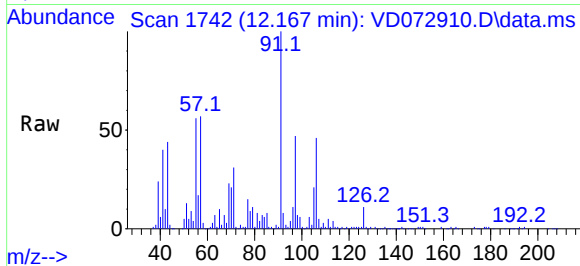




#69
o-Xylene
Concen: 11.081 ug/l
RT: 12.167 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

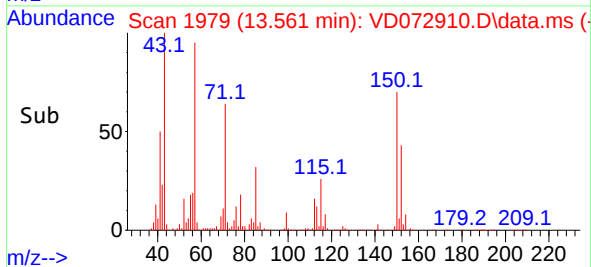
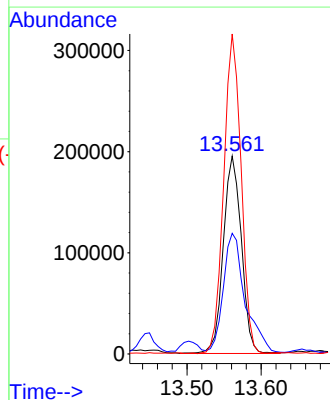
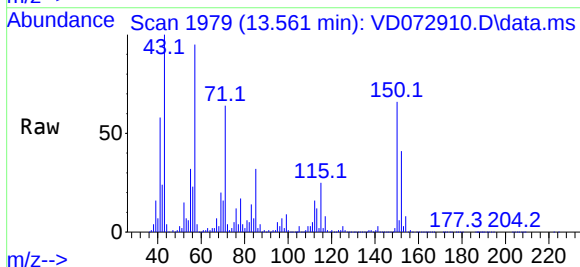
Instrument :
MSVOA_D
ClientSampleId :
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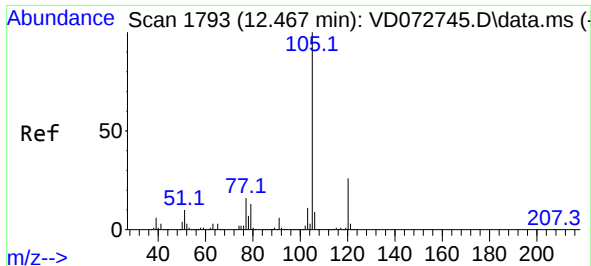
Tgt Ion:106 Resp: 116515
Ion Ratio Lower Upper
106 100
91 221.1 110.4 331.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion:152 Resp: 330463
Ion Ratio Lower Upper
152 100
115 72.5 31.3 93.8
150 155.5 0.0 348.6

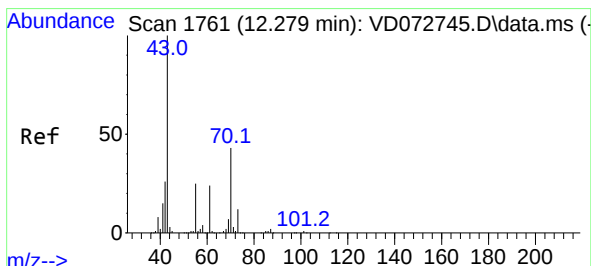
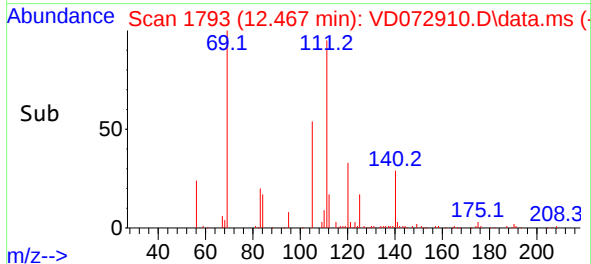
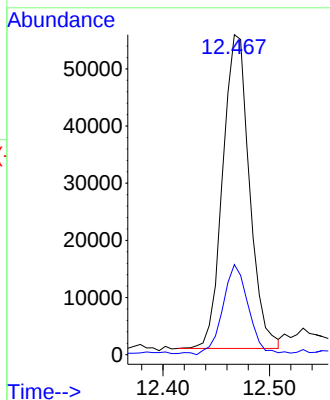
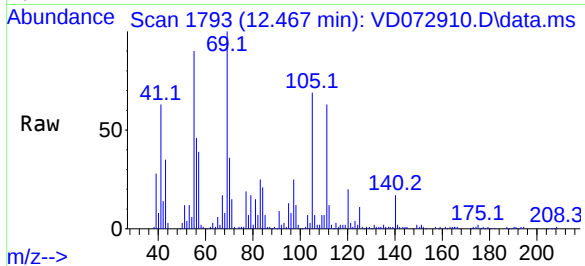




#73
Isopropylbenzene
Concen: 3.714 ug/l
RT: 12.467 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

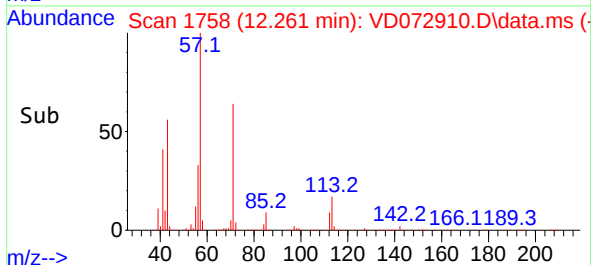
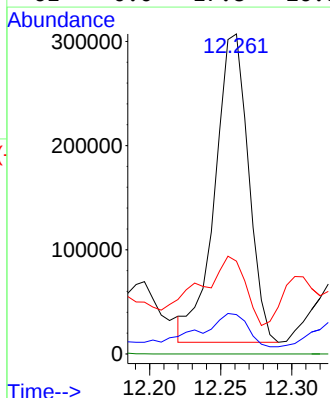
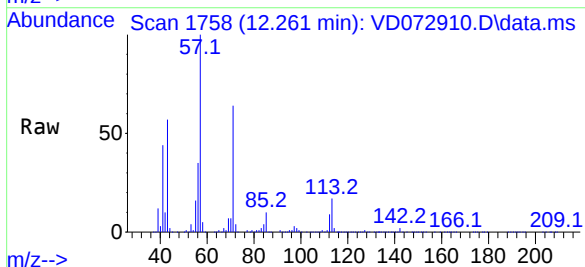
Instrument :
MSVOA_D
ClientSampleId :
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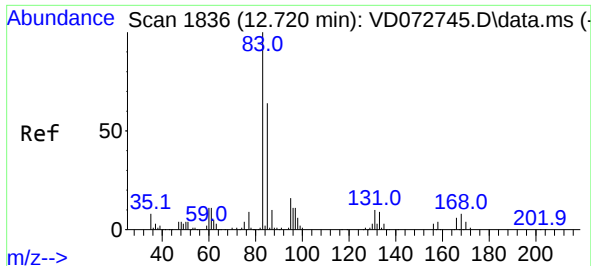
Tgt Ion:105 Resp: 95479
Ion Ratio Lower Upper
105 100
120 26.5 13.0 38.9



#74
N-ethyl acetate
Concen: 76.022 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 43 Resp: 486754
Ion Ratio Lower Upper
43 100
70 15.6 31.3 46.9#
55 31.5 20.0 30.0#
61 0.0 17.8 26.8#

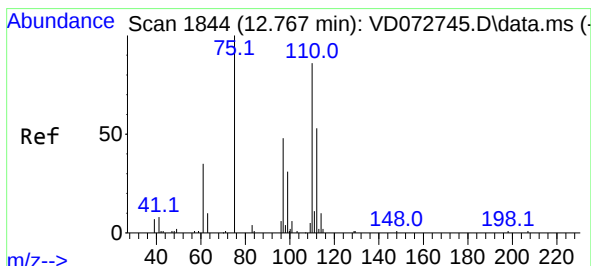
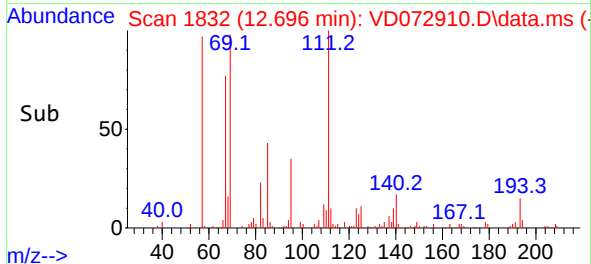
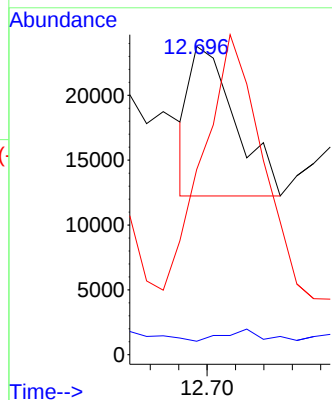
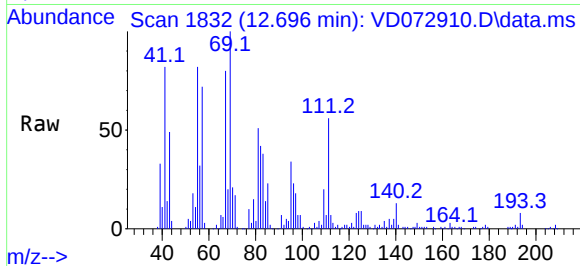




#75
1,1,2,2-Tetrachloroethane
Concen: 2.446 ug/l
RT: 12.696 min Scan# 1832
Delta R.T. -0.024 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

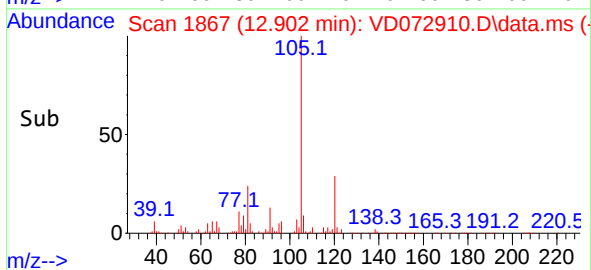
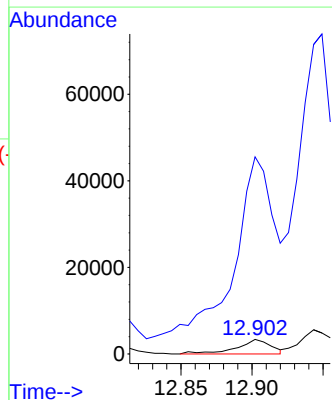
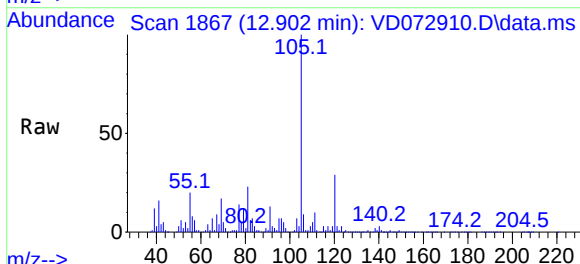
Instrument :
MSVOA_D
ClientSampleId :
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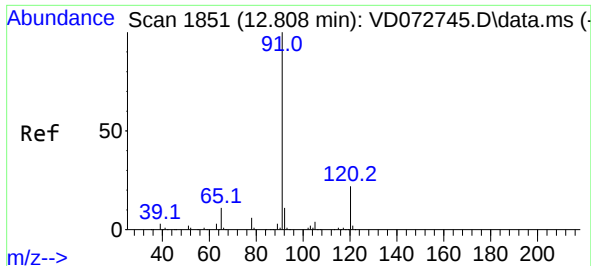
Tgt Ion: 83 Resp: 12697
Ion Ratio Lower Upper
83 100
131 6.6 5.0 14.9
85 0.0 32.6 98.0#



#76
1,2,3-Trichloropropane
Concen: 1.525 ug/l
RT: 12.902 min Scan# 1867
Delta R.T. 0.135 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 75 Resp: 5619
Ion Ratio Lower Upper
75 100
77 1472.7 0.0 0.0#

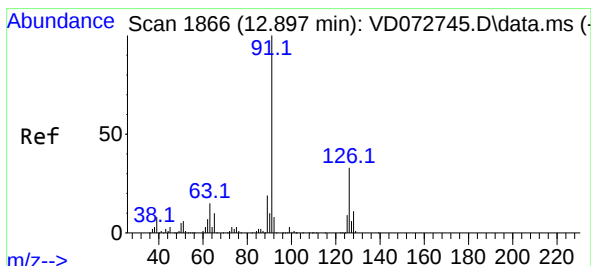
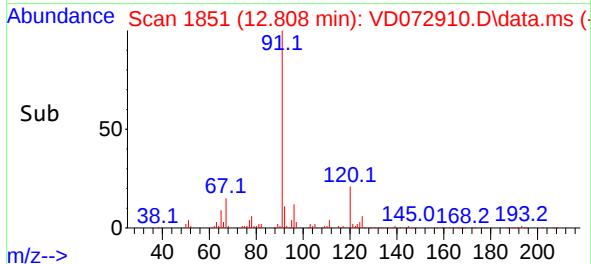
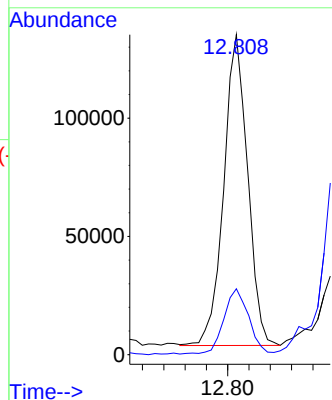
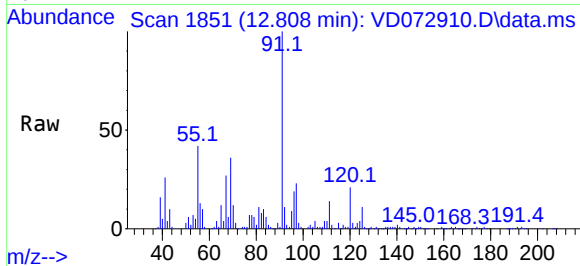




#78
n-propylbenzene
Concen: 6.296 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. 0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

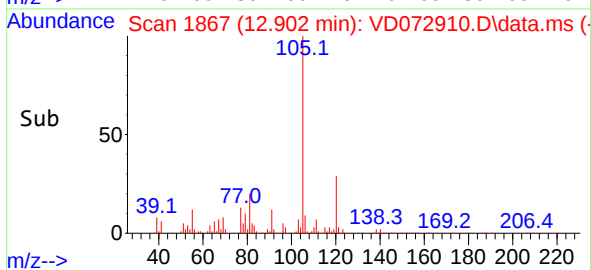
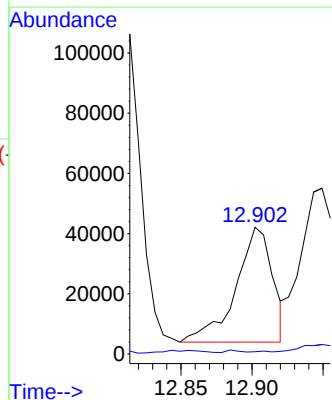
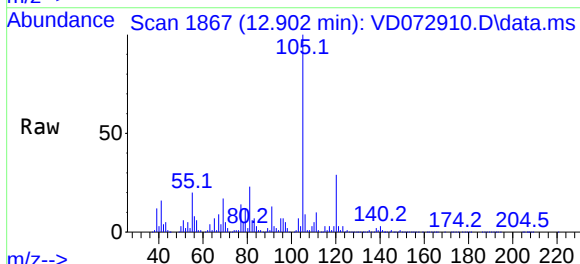
Instrument :
MSVOA_D
ClientSampleId :
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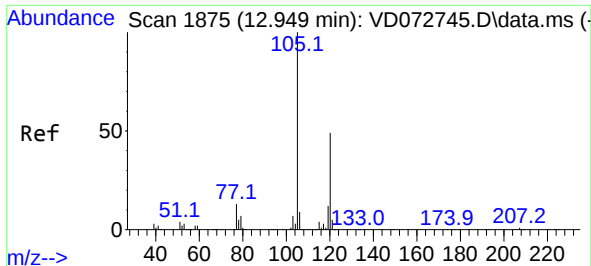
Tgt Ion: 91 Resp: 204030
Ion Ratio Lower Upper
91 100
120 21.9 10.9 32.9



#79
2-Chlorotoluene
Concen: 3.625 ug/l
RT: 12.902 min Scan# 1867
Delta R.T. 0.005 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 91 Resp: 68610
Ion Ratio Lower Upper
91 100
126 0.7 16.2 48.6#

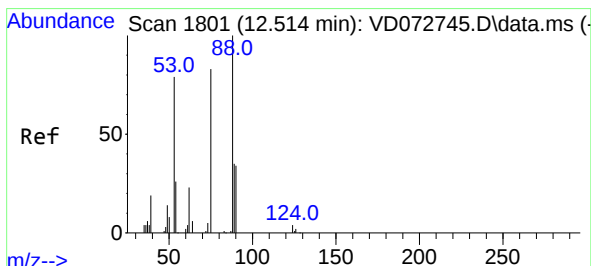
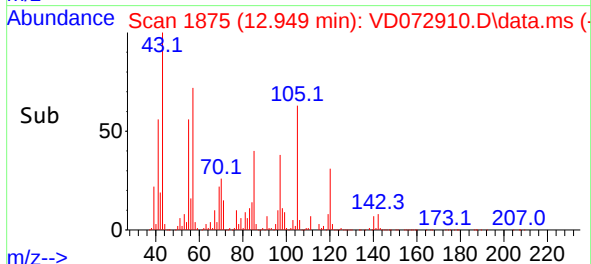
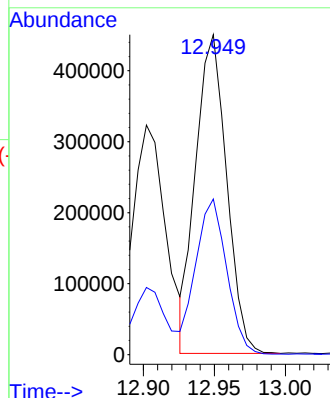
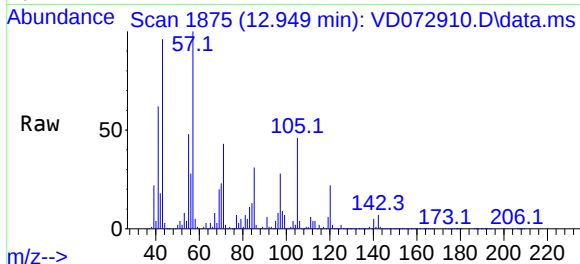




#80
1,3,5-Trimethylbenzene
Concen: 31.142 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

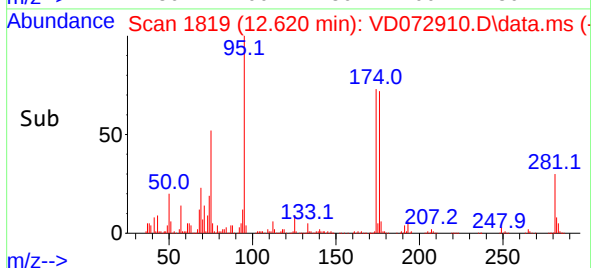
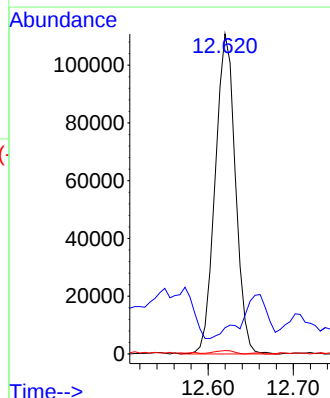
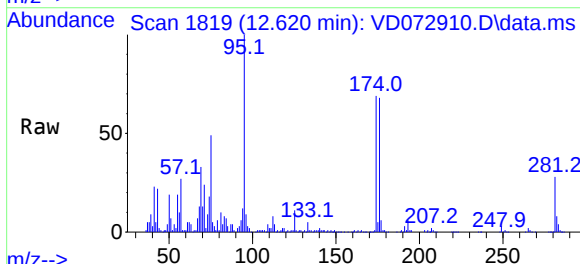
Instrument :
MSVOA_D
ClientSampleId :
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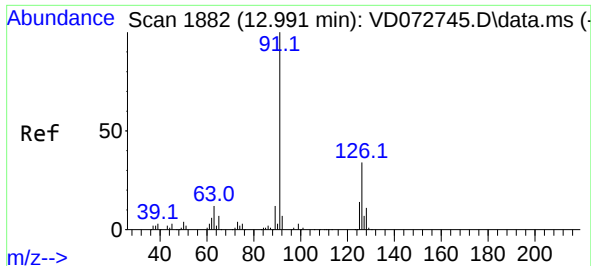
Tgt Ion:105 Resp: 678935
Ion Ratio Lower Upper
105 100
120 48.5 24.3 72.8



#81
trans-1,4-Dichloro-2-butene
Concen: 113.906 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 75 Resp: 182523
Ion Ratio Lower Upper
75 100
53 0.0 86.5 129.7#
89 1.1 33.9 50.9#

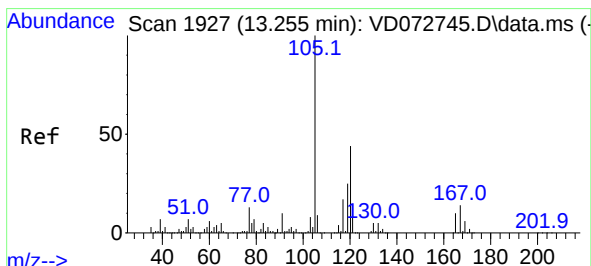
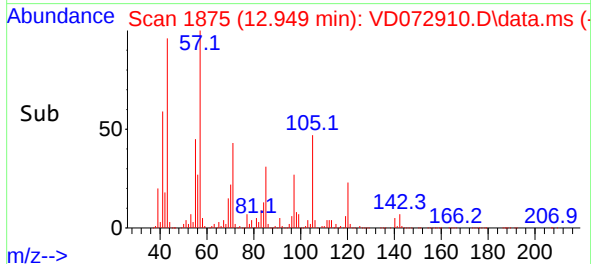
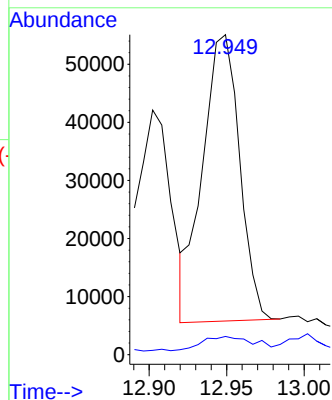
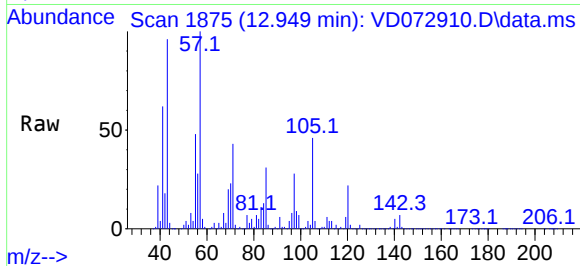




#82
4-Chlorotoluene
Concen: 4.150 ug/l
RT: 12.949 min Scan# 11
Delta R.T. -0.042 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

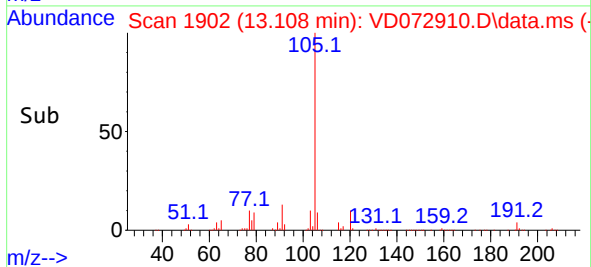
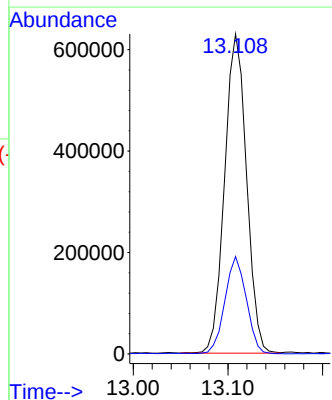
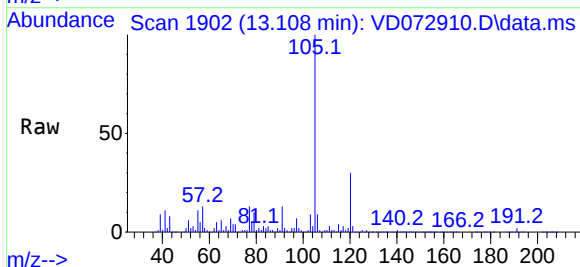
Instrument :
MSVOA_D
ClientSampleId :
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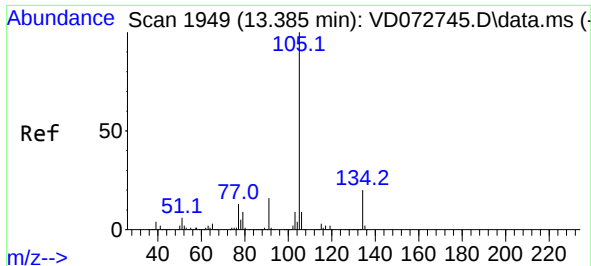
Tgt Ion: 91 Resp: 82087
Ion Ratio Lower Upper
91 100
126 7.5 16.5 49.5#



#84
1,2,4-Trimethylbenzene
Concen: 46.471 ug/l
RT: 13.108 min Scan# 1902
Delta R.T. -0.147 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 105 Resp: 1012672
Ion Ratio Lower Upper
105 100
120 29.7 22.3 66.8

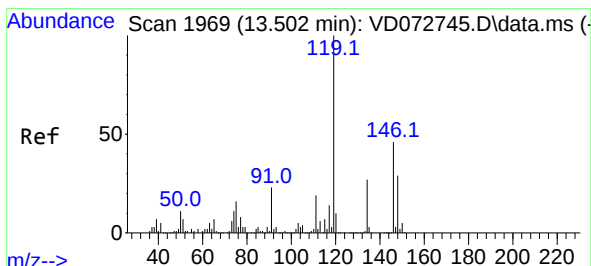
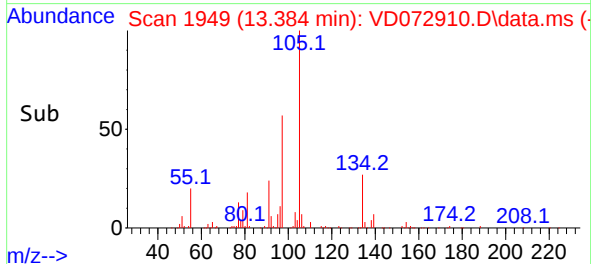
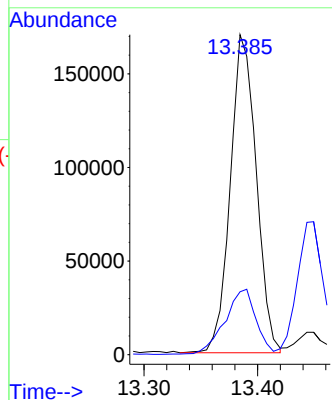
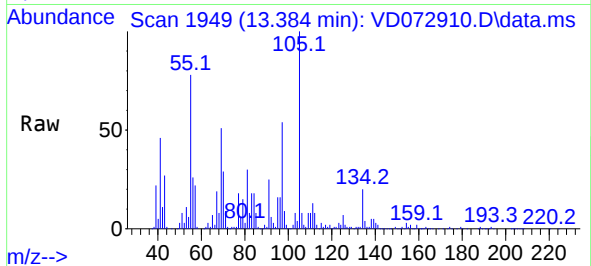




#85
 sec-Butylbenzene
 Concen: 9.645 ug/l
 RT: 13.384 min Scan# 1949
 Delta R.T. -0.001 min
 Lab File: VD072910.D
 Acq: 10 May 2022 13:12

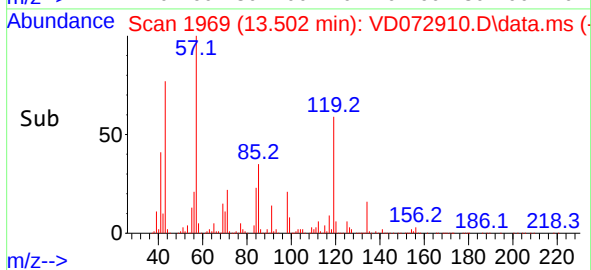
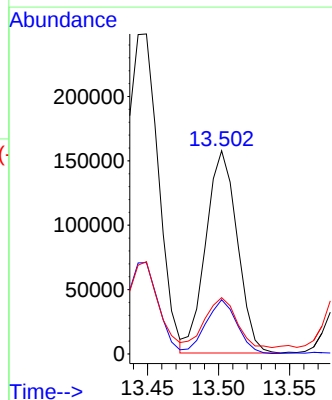
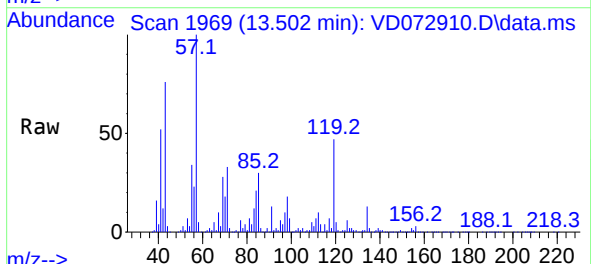
Instrument :
 MSVOA_D
 ClientSampleId :
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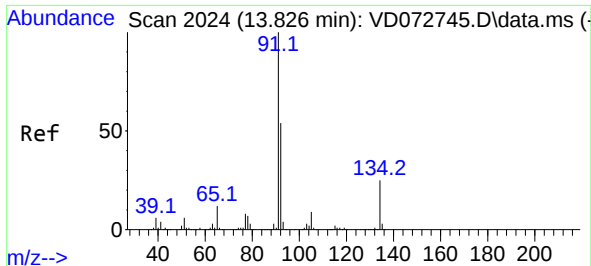
Tgt Ion:105 Resp: 269628
 Ion Ratio Lower Upper
 105 100
 134 24.6 9.8 29.3



#86
 p-Isopropyltoluene
 Concen: 10.558 ug/l
 RT: 13.502 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: VD072910.D
 Acq: 10 May 2022 13:12

Tgt Ion:119 Resp: 241983
 Ion Ratio Lower Upper
 119 100
 134 26.1 12.9 38.6
 91 24.5 12.1 36.3

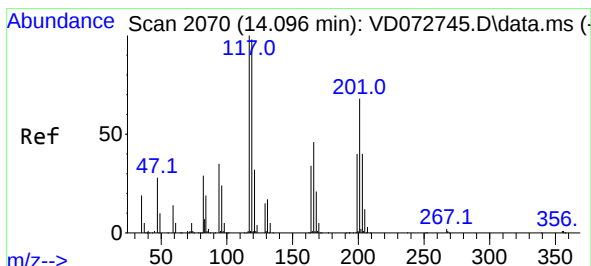
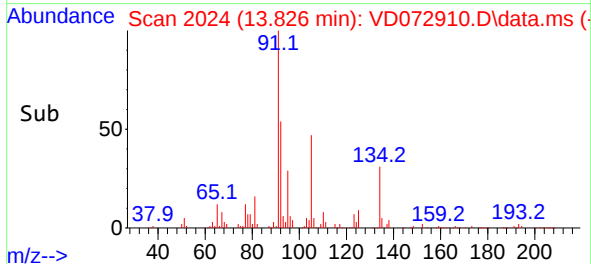
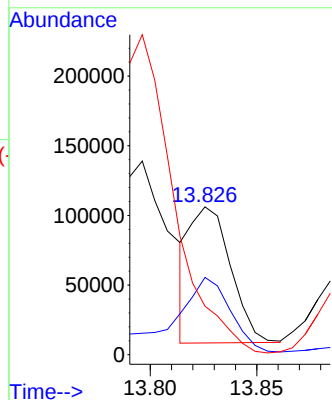
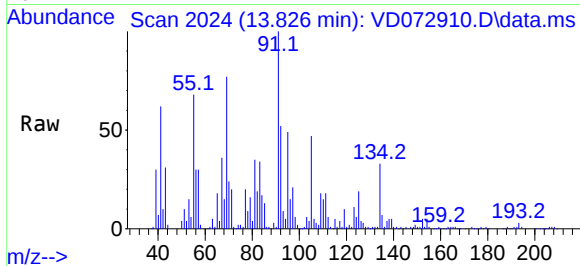




#89
n-Butylbenzene
Concen: 5.849 ug/l
RT: 13.826 min Scan# 2024
Delta R.T. -0.000 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

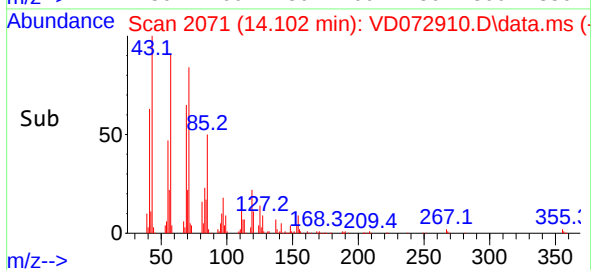
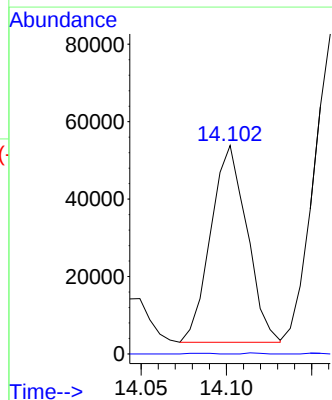
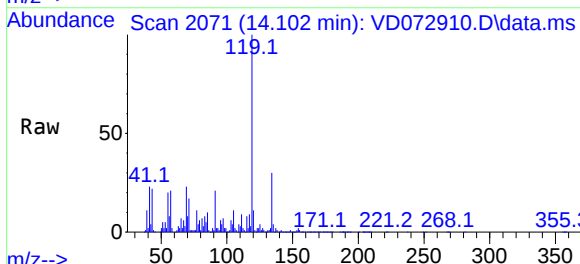
Instrument :
MSVOA_D
ClientSampleId :
05

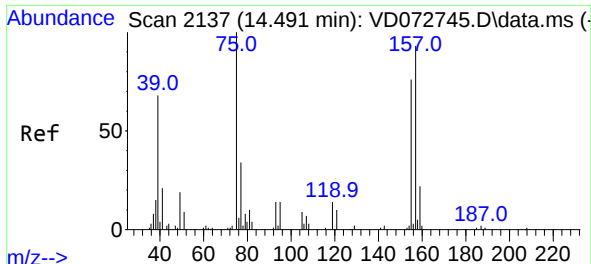
Tgt Ion: 91 Resp: 129857
Ion Ratio Lower Upper
91 100
92 77.8 26.6 79.8
134 0.0 12.3 36.9#



#90
Hexachloroethane
Concen: 16.011 ug/l
RT: 14.102 min Scan# 2071
Delta R.T. 0.006 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 117 Resp: 75178
Ion Ratio Lower Upper
117 100
201 0.2 33.4 100.2#

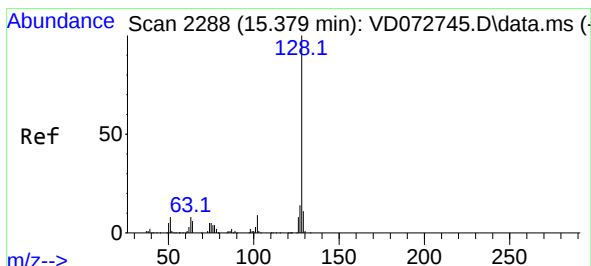
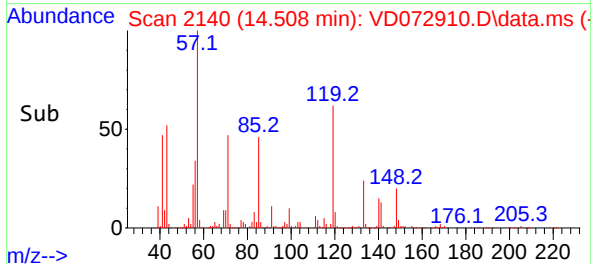
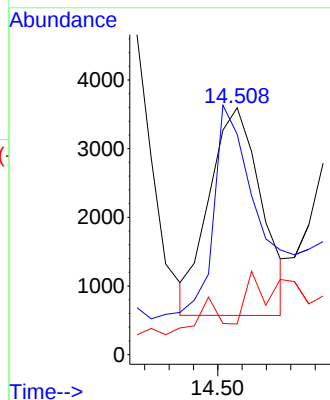
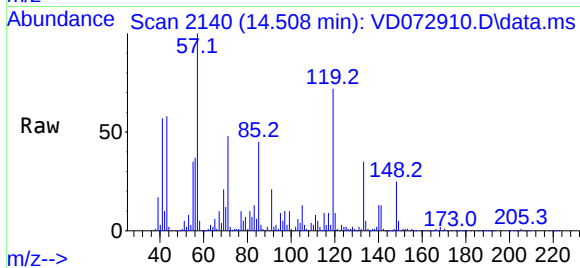




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.465 ug/l
RT: 14.508 min Scan# 2137
Delta R.T. 0.017 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

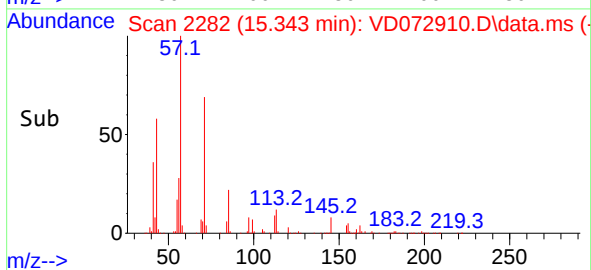
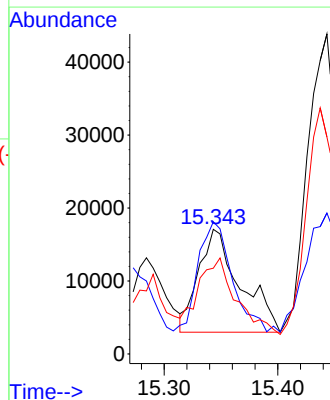
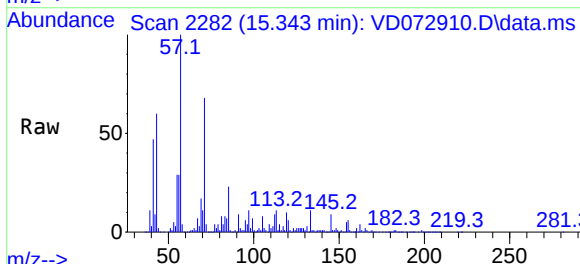
Instrument :
MSVOA_D
ClientSampleId :
05

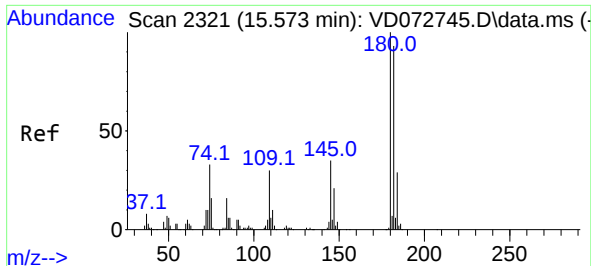
Tgt Ion: 75 Resp: 4496
Ion Ratio Lower Upper
75 100
155 112.1 36.8 110.3#
157 25.1 48.4 145.0#



#95
Naphthalene
Concen: 3.080 ug/l
RT: 15.343 min Scan# 2282
Delta R.T. -0.036 min
Lab File: VD072910.D
Acq: 10 May 2022 13:12

Tgt Ion: 128 Resp: 35947
Ion Ratio Lower Upper
128 100
127 86.5 10.3 15.5#
129 67.9 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.582 ug/l
 RT: 15.596 min Scan# 21
 Delta R.T. 0.023 min
 Lab File: VD072910.D
 Acq: 10 May 2022 13:12

Instrument :
 MSVOA_D
 ClientSampleId :
 05

Tgt Ion:180 Resp: 8905
 Ion Ratio Lower Upper
 180 100
 182 63.0 47.6 142.9
 145 0.0 17.1 51.3#

