

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032322\
 Data File : VD072395.D
 Acq On : 23 Mar 2022 20:30
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 24 00:55:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031122S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 14 05:18:06 2022
 Response via : Initial Calibration

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

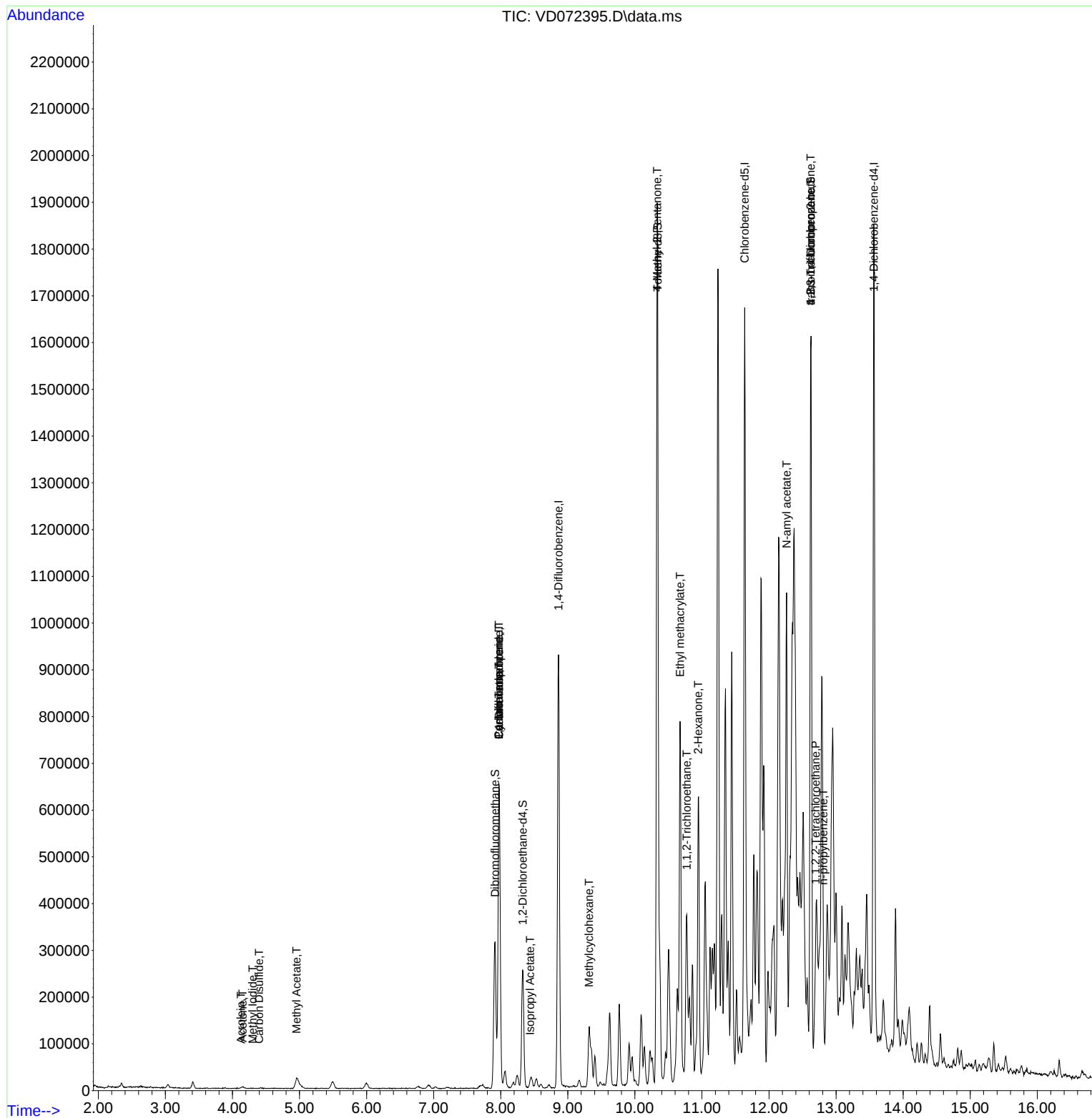
Internal Standards						
1) Pentafluorobenzene	7.973	168	479616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	793135	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	899395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	465501	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	207349	38.793	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	77.580%
35) Dibromofluoromethane	7.914	113	231651	41.504	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	83.000%
50) Toluene-d8	10.338	98	1048224	51.363	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	102.720%
62) 4-Bromofluorobenzene	12.620	95	475469	59.960	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	119.920%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.303	142	552	2.334	ug/l #	68
13) Acrolein	4.126	56	323	1.168	ug/l #	40
16) Acetone	4.150	43	4276	3.685	ug/l	99
17) Carbon Disulfide	4.397	76	1664	1.657	ug/l #	37
18) Methyl Acetate	4.956	43	5756	2.024	ug/l #	55
20) Methylene Chloride	4.967	84	14579	Below Cal	#	83
31) Cyclohexane	7.973	56	14122	1.691	ug/l #	16
36) 1,1-Dichloropropene	7.973	75	38186	4.877	ug/l #	51
38) Carbon Tetrachloride	7.973	117	49224	5.531	ug/l #	17
39) Methylcyclohexane	9.314	83	36512	4.144	ug/l #	25
43) Isopropyl Acetate	8.438	43	9497	1.427	ug/l #	54
51) 4-Methyl-2-Pentanone	10.332	43	25382	7.259	ug/l	96
55) 1,1,2-Trichloroethane	10.773	97	130140	28.349	ug/l #	21
56) Ethyl methacrylate	10.673	69	75421	14.027	ug/l #	25
59) 2-Hexanone	10.944	43	240712	99.677	ug/l #	32
74) N-amyl acetate	12.261	43	221376	27.925	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.696	83	21035	3.188	ug/l #	25
76) 1,2,3-Trichloropropane	12.620	75	238015	46.353	ug/l #	100
78) n-propylbenzene	12.808	91	47537	1.061	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.620	75	238015	115.005	ug/l #	9

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

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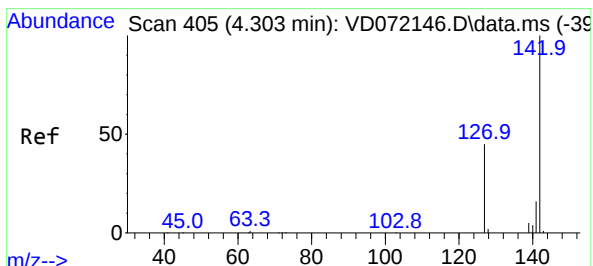
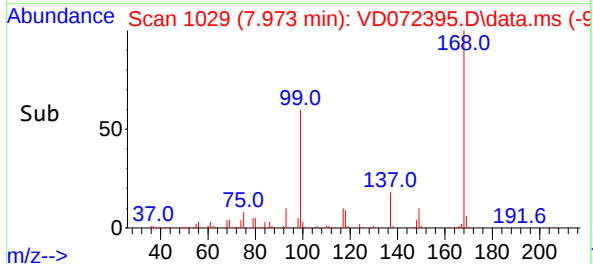
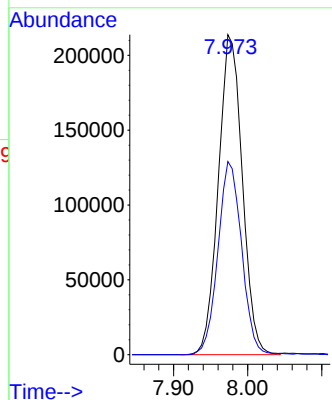
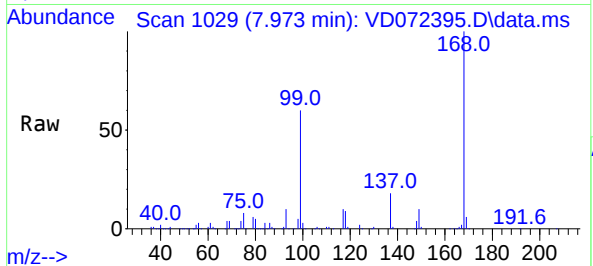




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

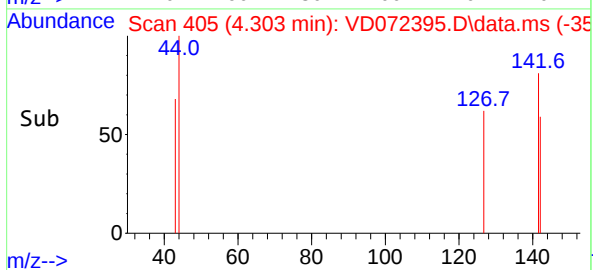
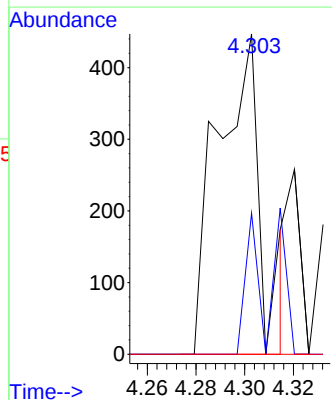
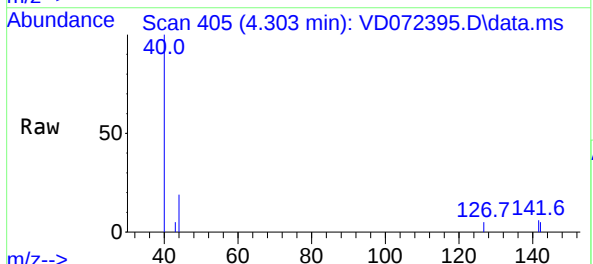
Instrument :
MSVOA_D
ClientSampleId :

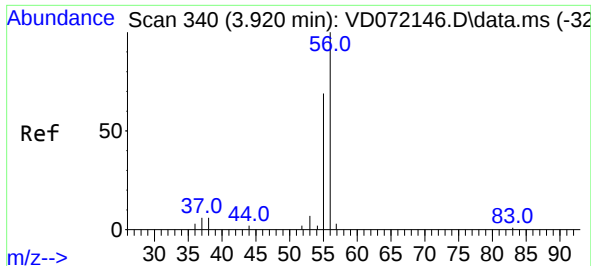
Tgt Ion:168 Resp: 479616
Ion Ratio Lower Upper
168 100
99 60.4 49.8 74.6



#10
Methyl Iodide
Concen: 2.334 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion:142 Resp: 552
Ion Ratio Lower Upper
142 100
127 25.7 37.3 55.9#
141 0.0 11.7 17.5#

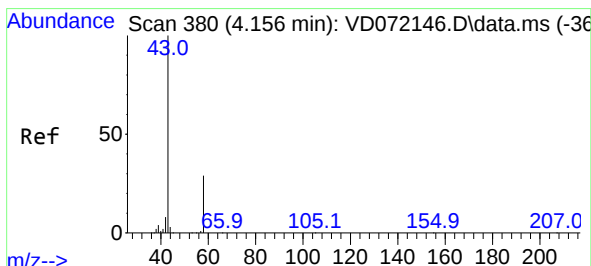
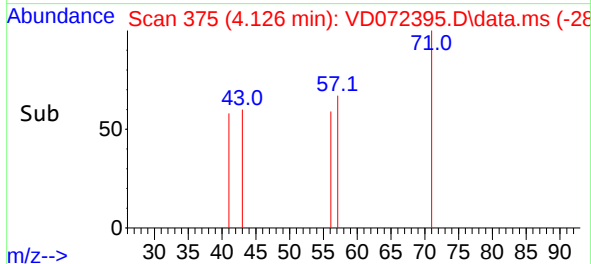
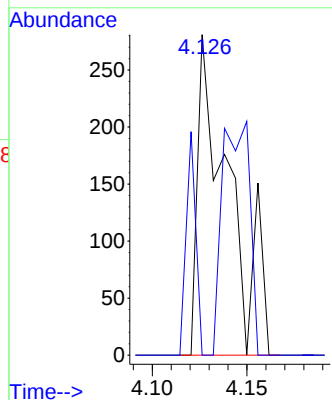
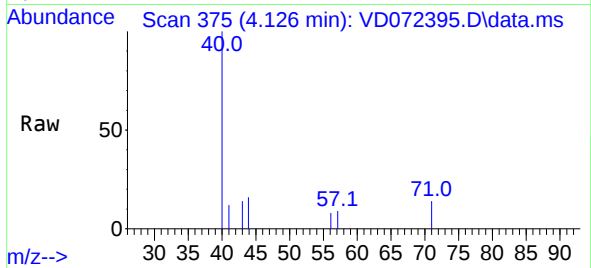




#13
Acrolein
Concen: 1.168 ug/l
RT: 4.126 min Scan# 31
Delta R.T. 0.206 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

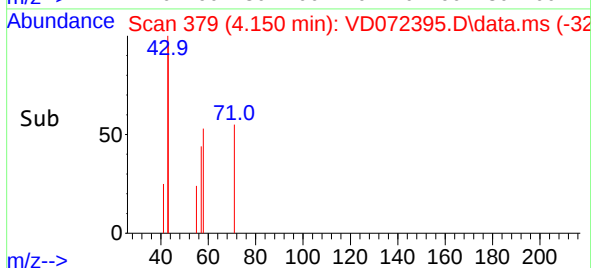
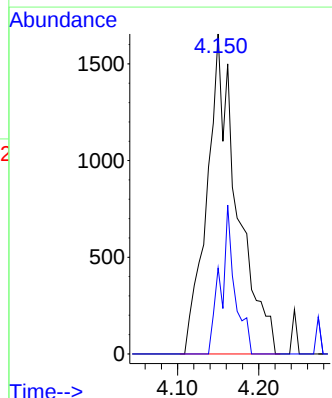
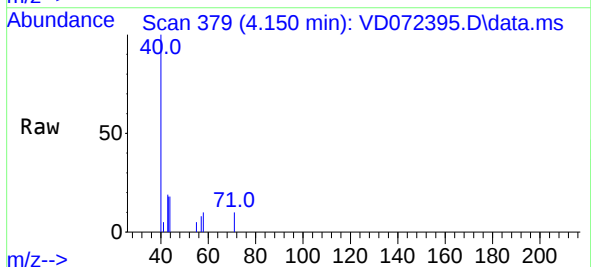
Instrument :
MSVOA_D
ClientSampleId :

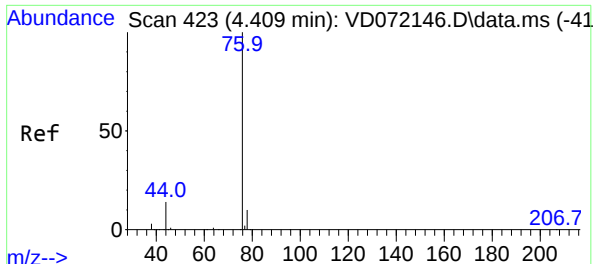
Tgt Ion: 56 Resp: 323
Ion Ratio Lower Upper
56 100
55 21.4 57.1 85.7#



#16
Acetone
Concen: 3.685 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion: 43 Resp: 4276
Ion Ratio Lower Upper
43 100
58 26.8 22.1 33.1

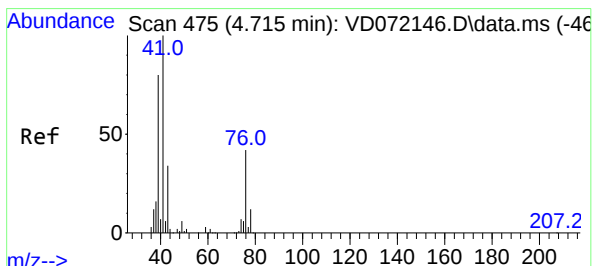
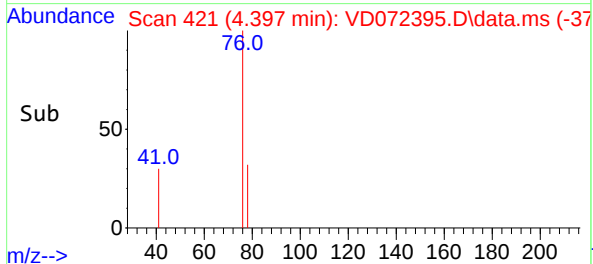
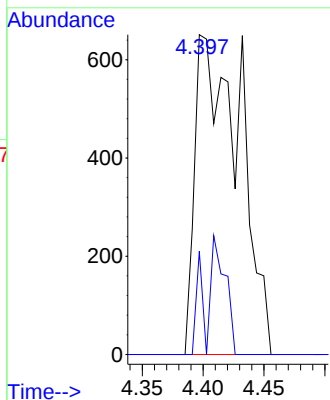
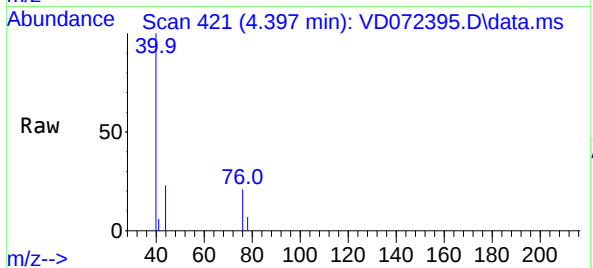




#17
Carbon Disulfide
Concen: 1.657 ug/l
RT: 4.397 min Scan# 41
Delta R.T. -0.012 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

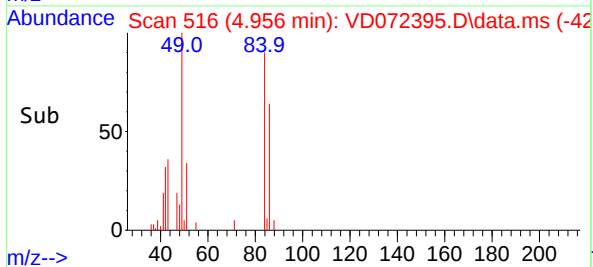
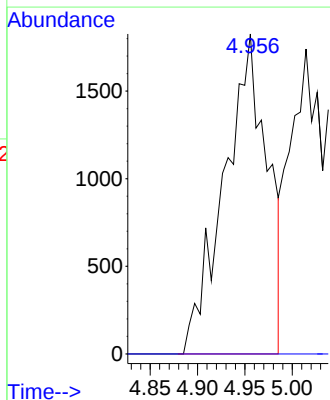
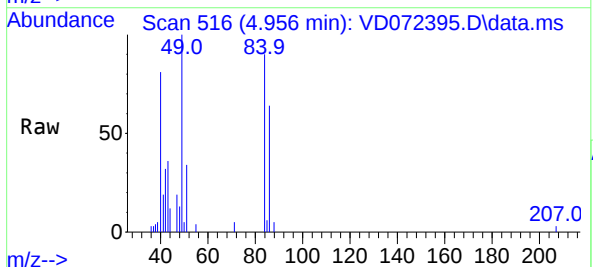
Instrument :
MSVOA_D
ClientSampleId :

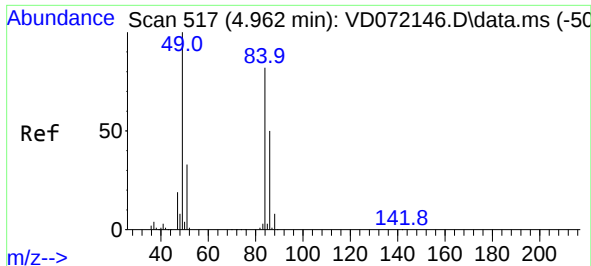
Tgt Ion: 76 Resp: 1664
Ion Ratio Lower Upper
76 100
78 32.3 7.5 11.3#



#18
Methyl Acetate
Concen: 2.024 ug/l
RT: 4.956 min Scan# 516
Delta R.T. 0.241 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

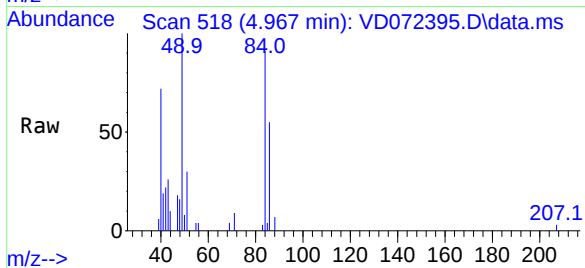
Tgt Ion: 43 Resp: 5756
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



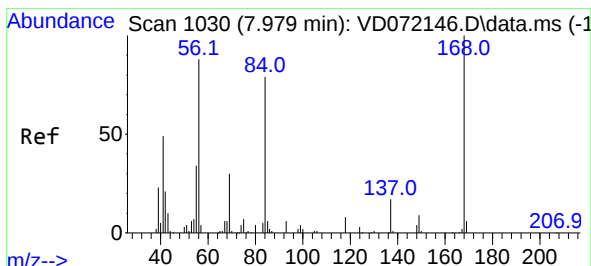
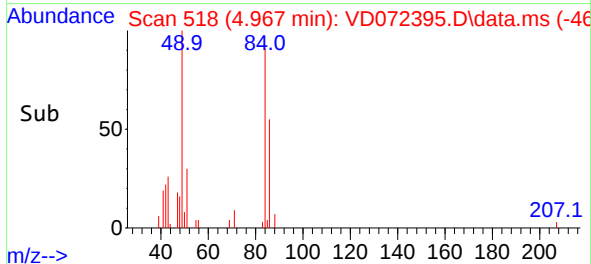
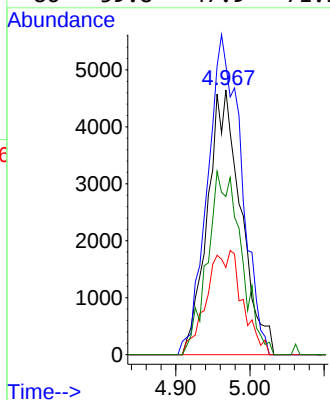


#20
Methylene Chloride
Concen: Below Cal
RT: 4.967 min Scan# 51
Delta R.T. 0.005 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Instrument :
MSVOA_D
ClientSampleId :

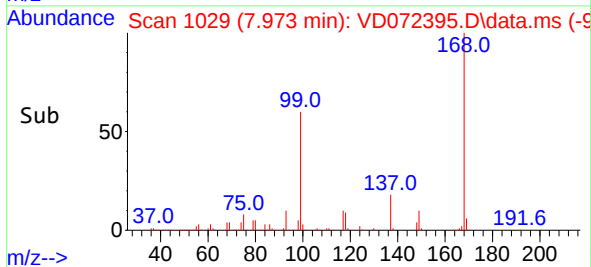
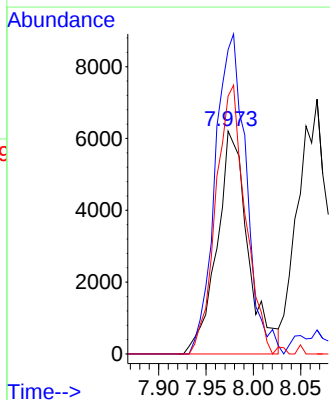
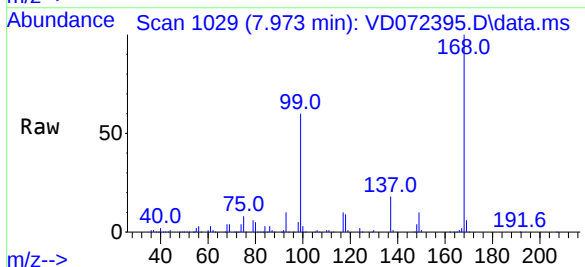


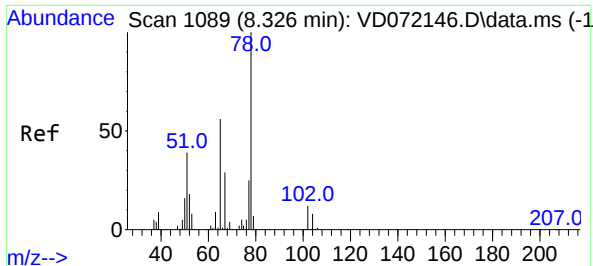
Tgt Ion: 84 Resp: 14579
Ion Ratio Lower Upper
84 100
49 109.4 112.8 169.2#
51 32.9 32.6 48.8
86 59.8 47.9 71.9



#31
Cyclohexane
Concen: 1.691 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion: 56 Resp: 14122
Ion Ratio Lower Upper
56 100
69 136.5 25.4 38.2#
84 115.7 63.0 94.4#





#33

1,2-Dichloroethane-d4

Concen: 38.793 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD072395.D

Acq: 23 Mar 2022 20:30

Instrument :

MSVOA_D

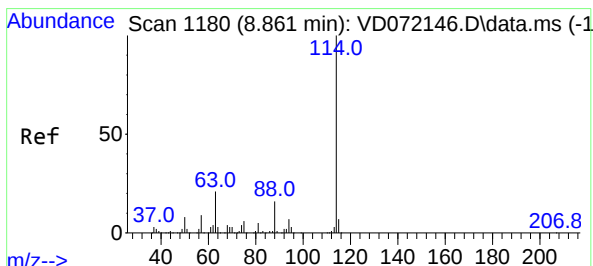
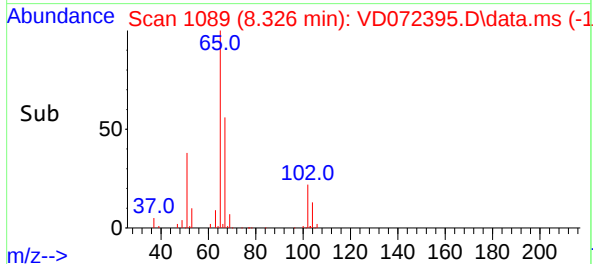
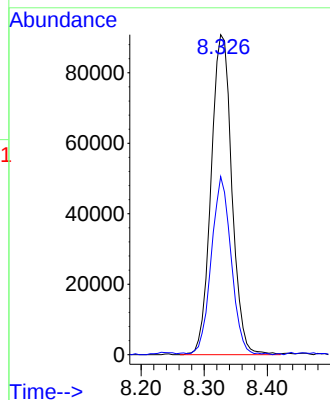
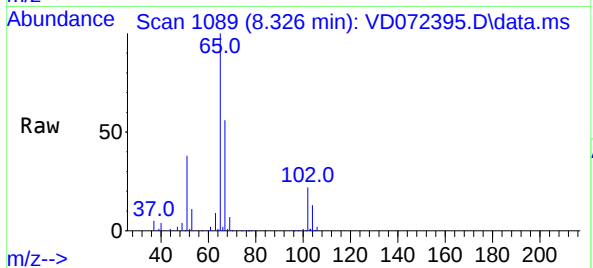
ClientSampleId :

Tgt Ion: 65 Resp: 207349

Ion Ratio Lower Upper

65 100

67 53.3 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: VD072395.D

Acq: 23 Mar 2022 20:30

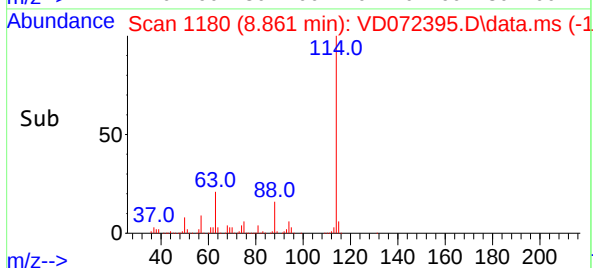
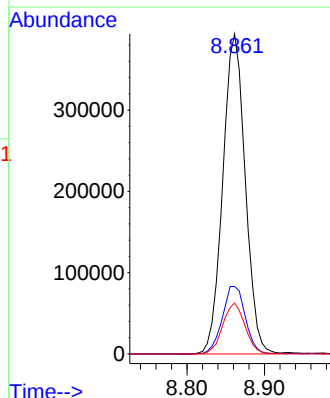
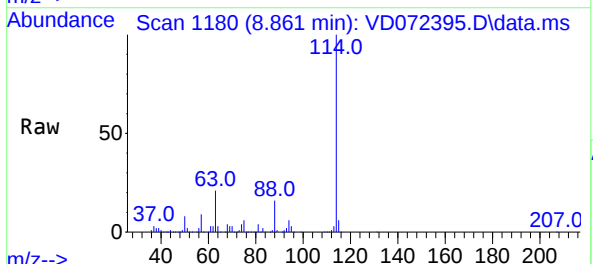
Tgt Ion: 114 Resp: 793135

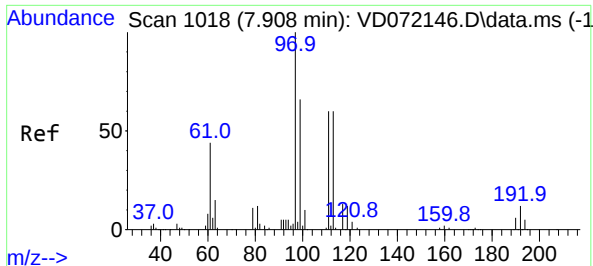
Ion Ratio Lower Upper

114 100

63 21.1 0.0 46.6

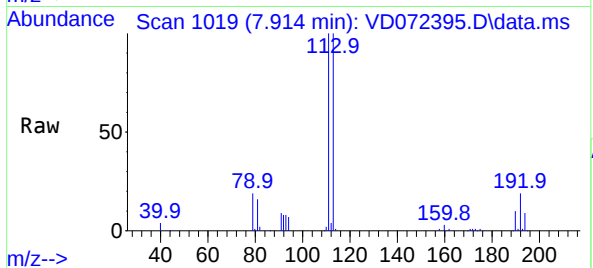
88 15.9 0.0 33.2



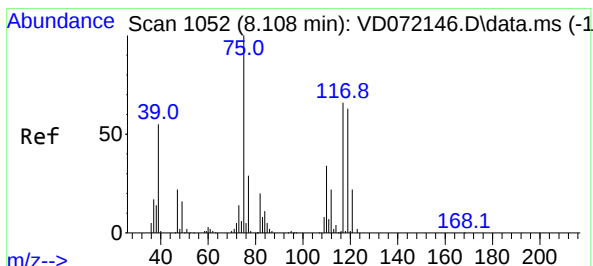
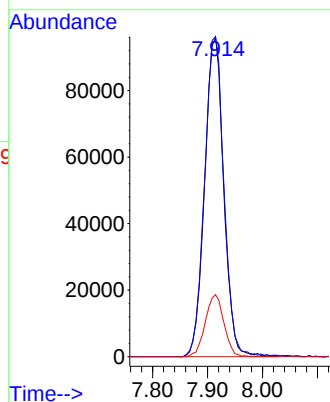
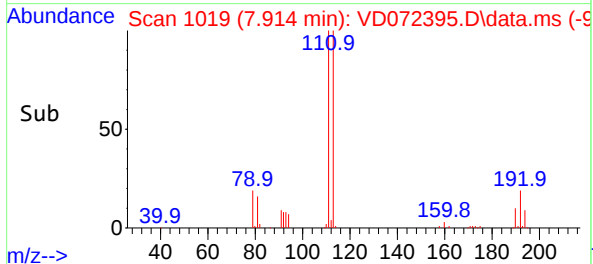


#35
Dibromofluoromethane
Concen: 41.504 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.006 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Instrument :
MSVOA_D
ClientSampleId :

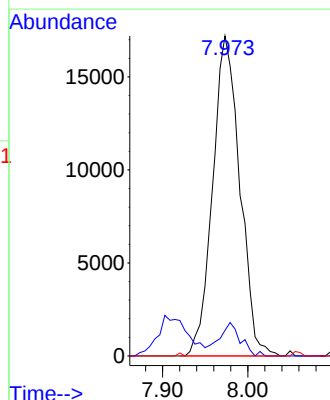
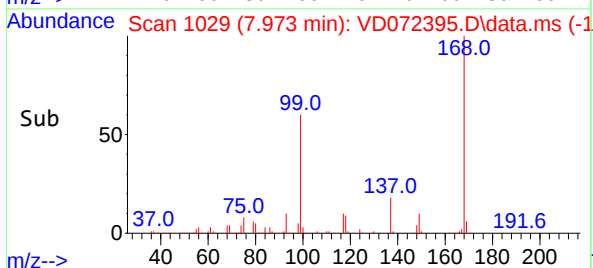
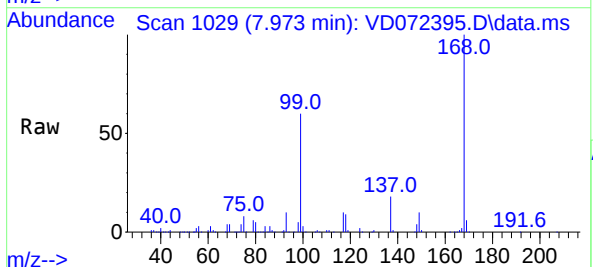


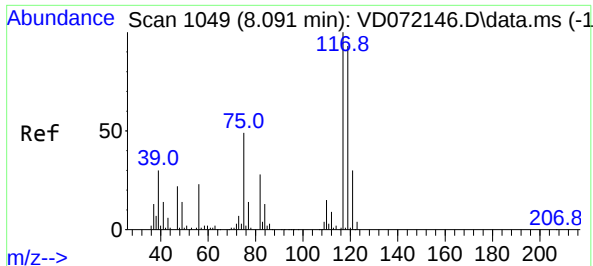
Tgt Ion:113 Resp: 231651
Ion Ratio Lower Upper
113 100
111 102.0 83.8 125.6
192 18.9 14.6 21.8



#36
1,1-Dichloropropene
Concen: 4.877 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

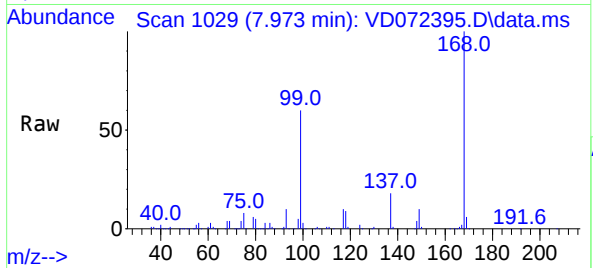
Tgt Ion: 75 Resp: 38186
Ion Ratio Lower Upper
75 100
110 8.3 16.4 49.1#
77 0.0 24.2 36.2#



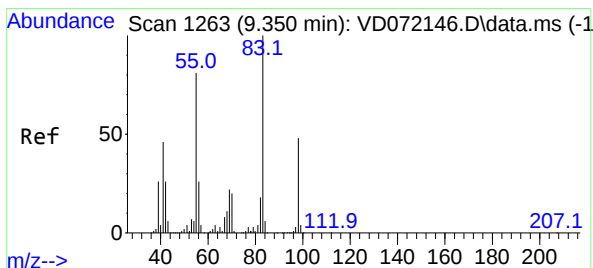
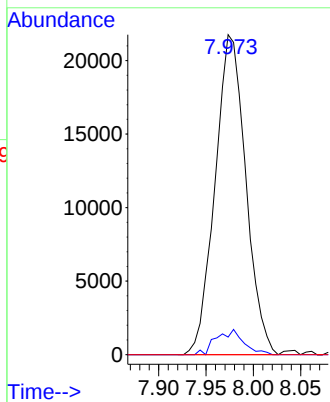
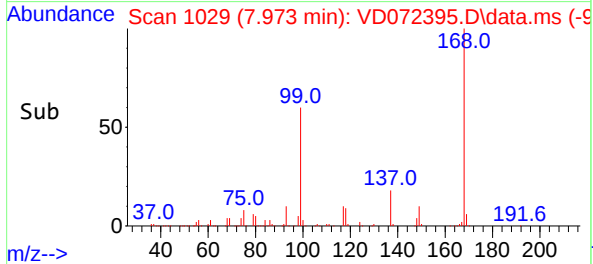


#38
Carbon Tetrachloride
Concen: 5.531 ug/l
RT: 7.973 min Scan# 117
Delta R.T. -0.118 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Instrument :
MSVOA_D
ClientSampleId :

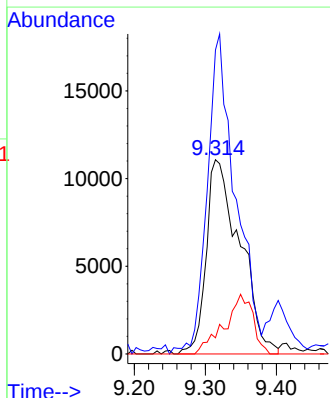
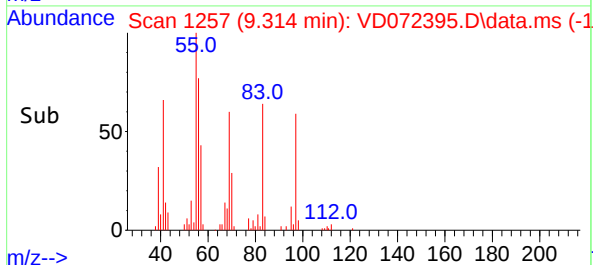
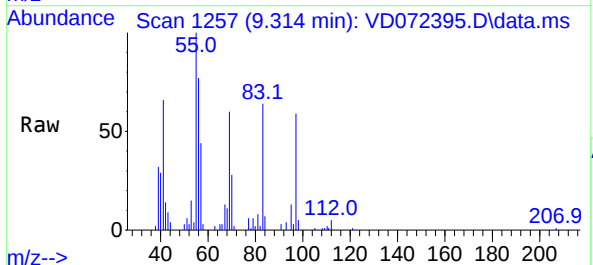


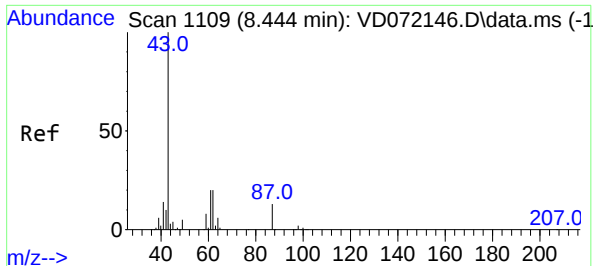
Tgt Ion:117 Resp: 49224
Ion Ratio Lower Upper
117 100
119 5.5 75.8 113.6#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 4.144 ug/l
RT: 9.314 min Scan# 1257
Delta R.T. -0.035 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

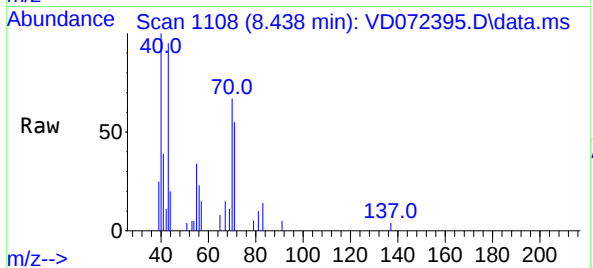
Tgt Ion: 83 Resp: 36512
Ion Ratio Lower Upper
83 100
55 153.6 63.2 94.8#
98 8.3 38.2 57.4#



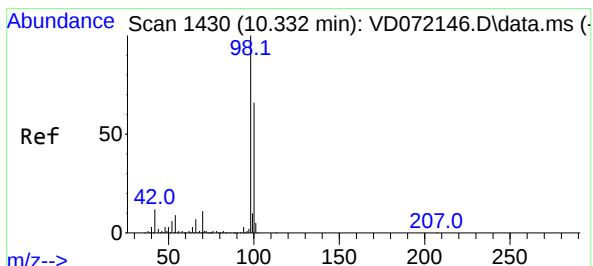
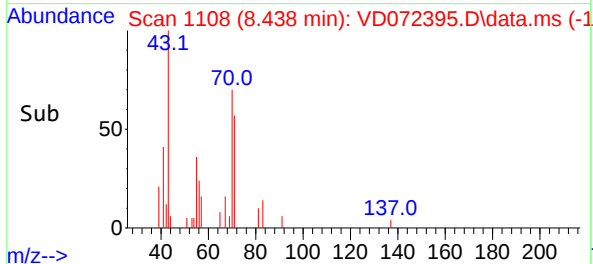
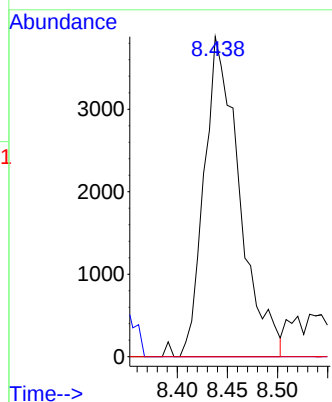


#43
Isopropyl Acetate
Concen: 1.427 ug/l
RT: 8.438 min Scan# 1109
Delta R.T. -0.006 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Instrument :
MSVOA_D
ClientSampleId :

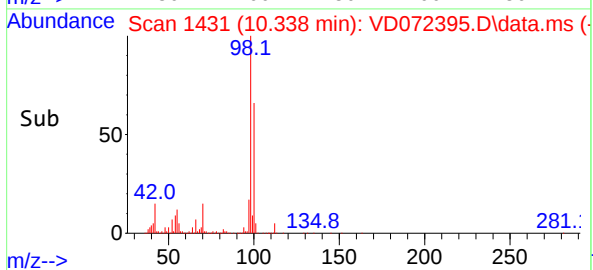
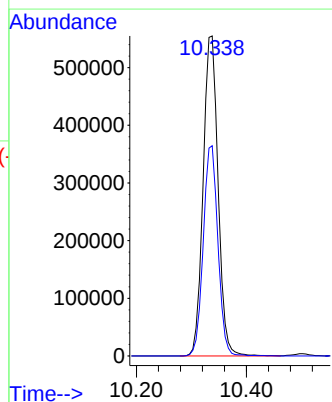
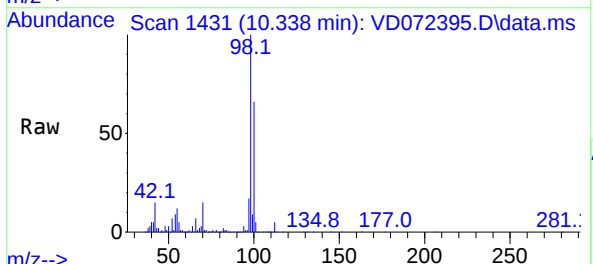


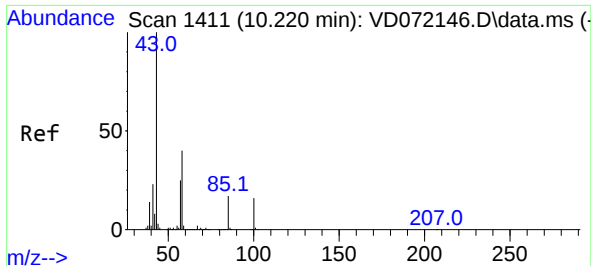
Tgt Ion: 43 Resp: 9497
Ion Ratio Lower Upper
43 100
61 0.0 22.4 33.6#
87 0.0 8.7 13.1#



#50
Toluene-d8
Concen: 51.363 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion: 98 Resp: 1048224
Ion Ratio Lower Upper
98 100
100 64.4 52.4 78.6

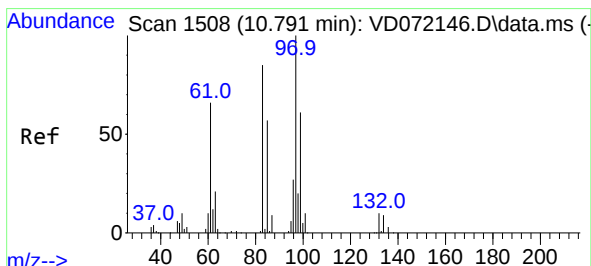
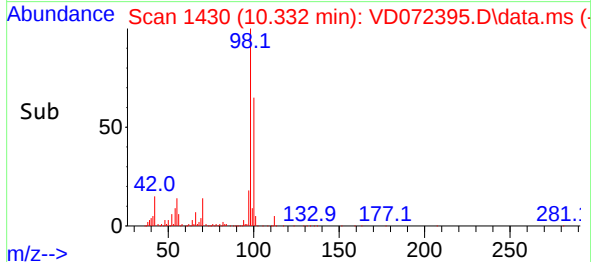
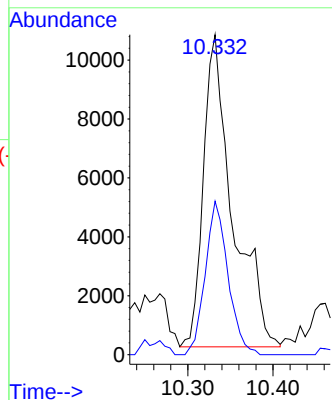
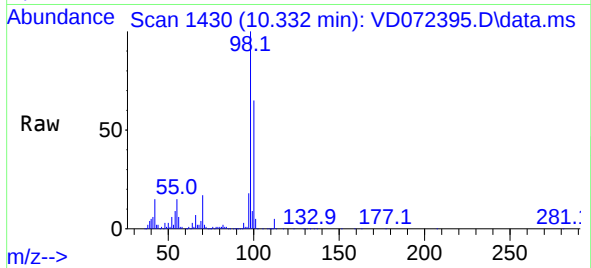




#51
4-Methyl-2-Pentanone
Concen: 7.259 ug/l
RT: 10.332 min Scan# 1411
Delta R.T. 0.112 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

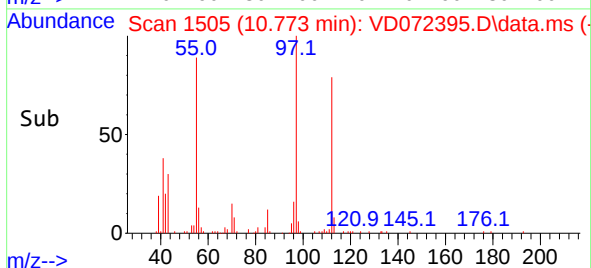
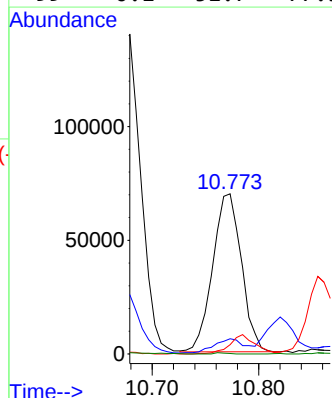
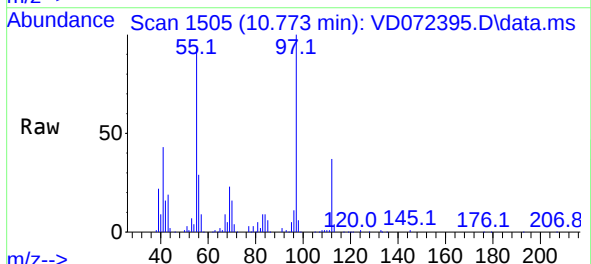
Instrument :
MSVOA_D
ClientSampleId :

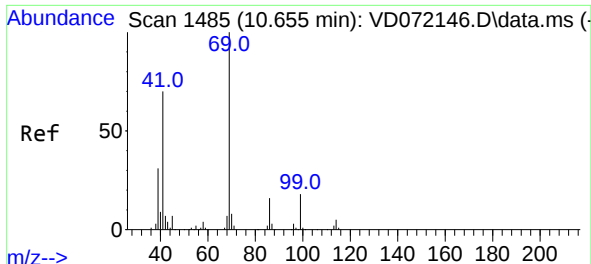
Tgt Ion: 43 Resp: 25382
Ion Ratio Lower Upper
43 100
58 38.1 28.6 43.0



#55
1,1,2-Trichloroethane
Concen: 28.349 ug/l
RT: 10.773 min Scan# 1505
Delta R.T. -0.018 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion: 97 Resp: 130140
Ion Ratio Lower Upper
97 100
83 9.0 69.0 103.4#
85 5.9 42.6 63.8#
99 0.1 51.7 77.5#

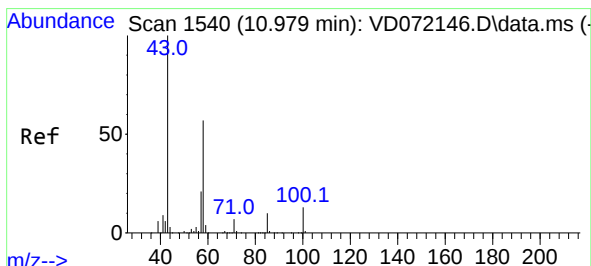
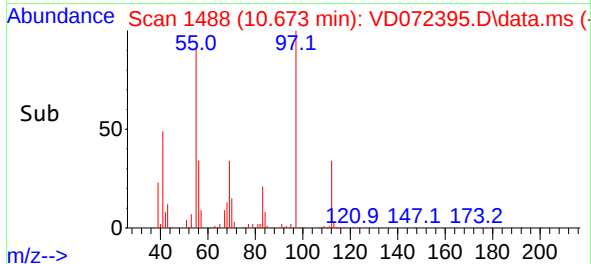
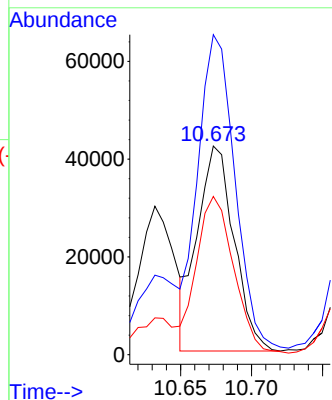
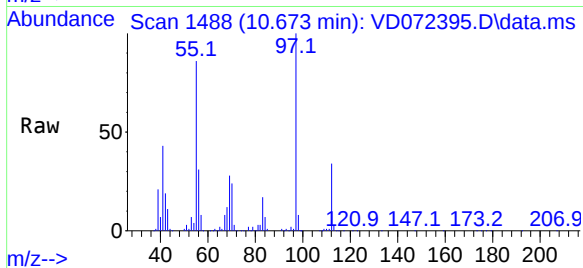




#56
Ethyl methacrylate
Concen: 14.027 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.018 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

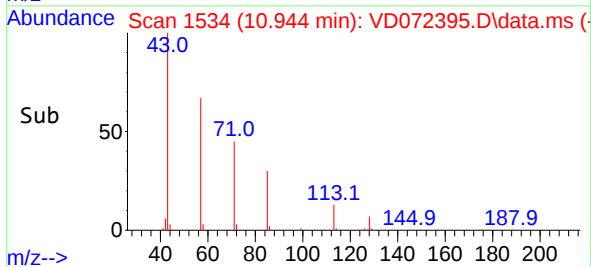
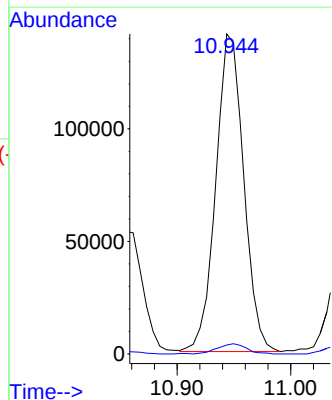
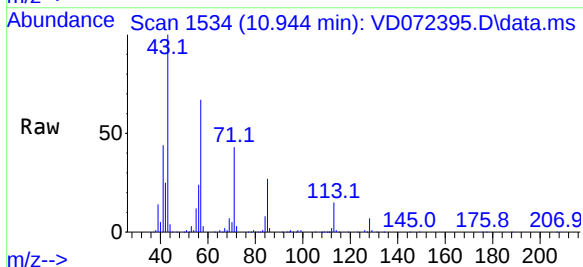
Instrument :
MSVOA_D
ClientSampleId :

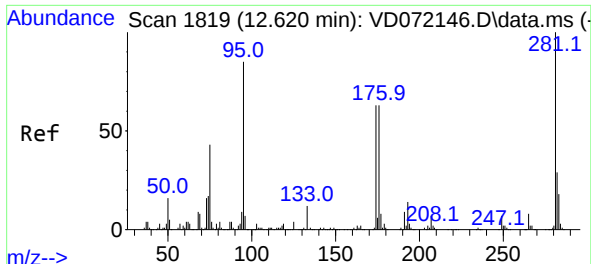
Tgt Ion: 69 Resp: 75421
Ion Ratio Lower Upper
69 100
41 152.8 63.0 94.6#
39 79.1 33.8 50.8#



#59
2-Hexanone
Concen: 99.677 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. -0.035 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion: 43 Resp: 240712
Ion Ratio Lower Upper
43 100
58 3.4 25.3 75.9#

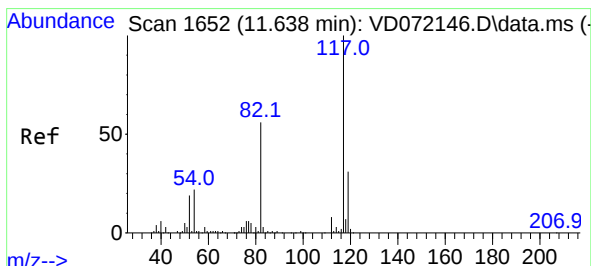
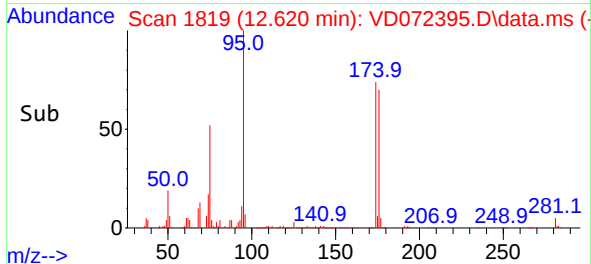
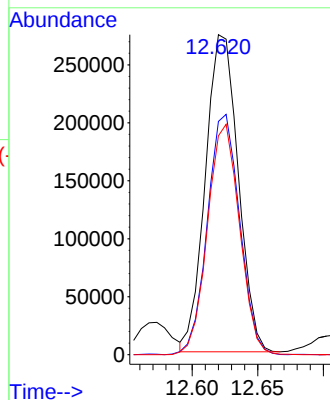
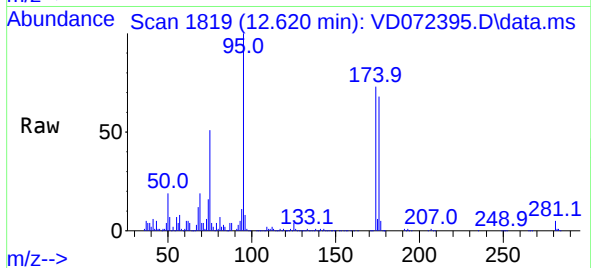




#62
4-Bromofluorobenzene
Concen: 59.960 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

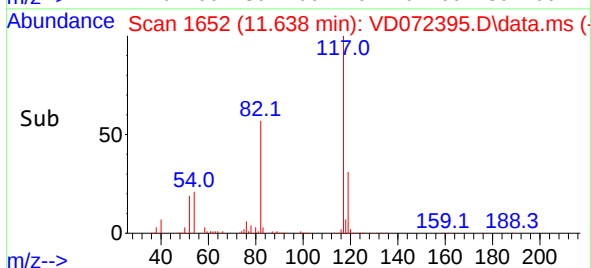
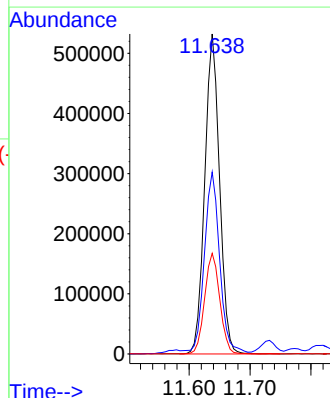
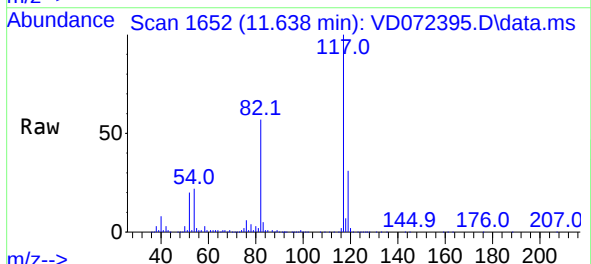
Instrument :
MSVOA_D
ClientSampleId :

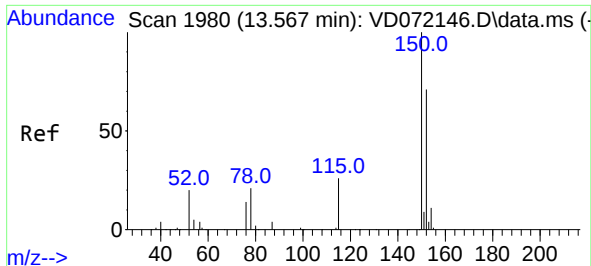
Tgt Ion: 95 Resp: 475469
Ion Ratio Lower Upper
95 100
174 74.7 0.0 152.8
176 71.0 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion: 117 Resp: 899395
Ion Ratio Lower Upper
117 100
82 55.8 45.3 67.9
119 31.4 26.6 40.0

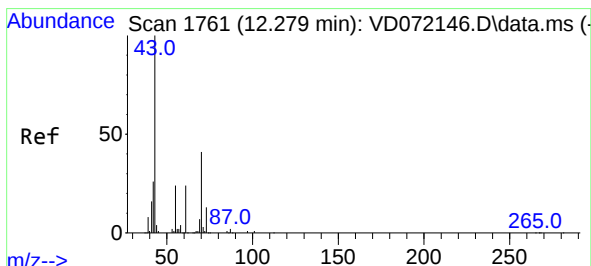
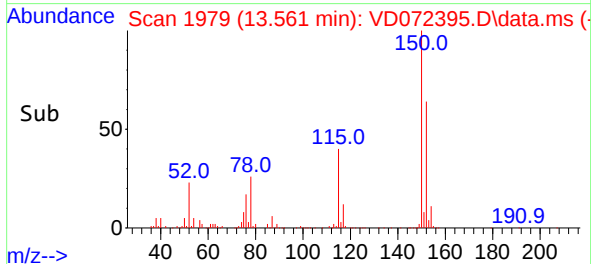
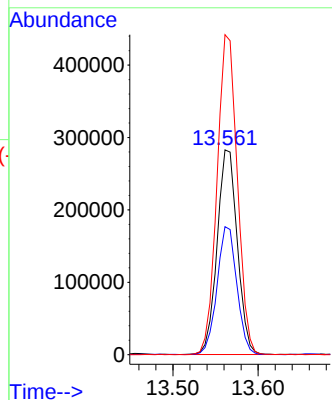
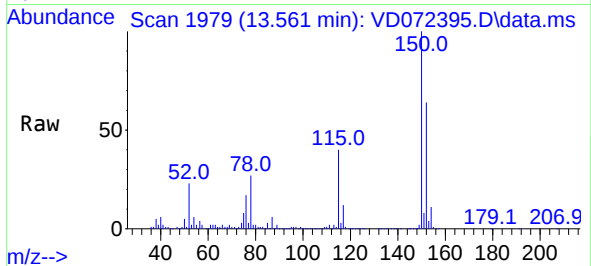




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

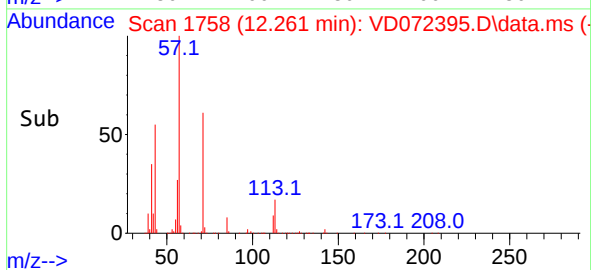
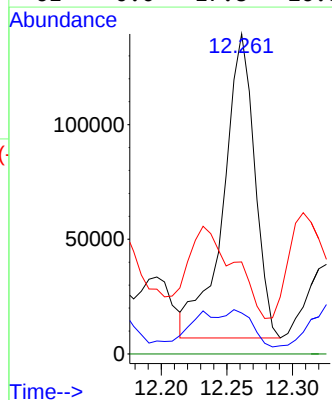
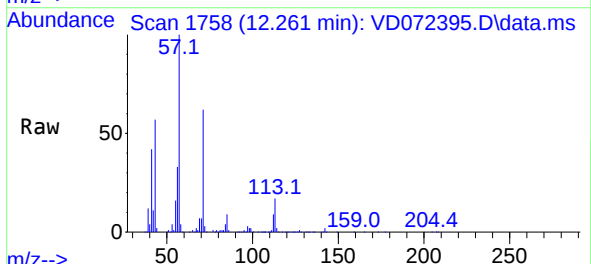
Instrument :
MSVOA_D
ClientSampleId :

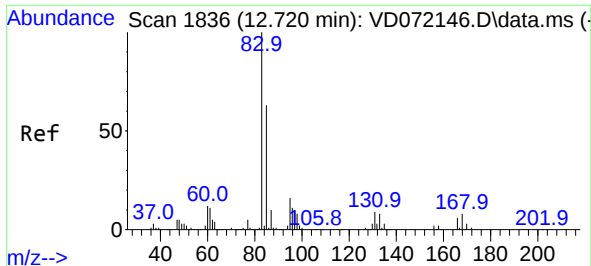
Tgt Ion:152 Resp: 465501
Ion Ratio Lower Upper
152 100
115 61.6 31.3 93.8
150 157.1 0.0 348.6



#74
N-ethyl acetate
Concen: 27.925 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

Tgt Ion: 43 Resp: 221376
Ion Ratio Lower Upper
43 100
70 0.0 31.3 46.9#
55 0.0 20.0 30.0#
61 0.0 17.8 26.8#

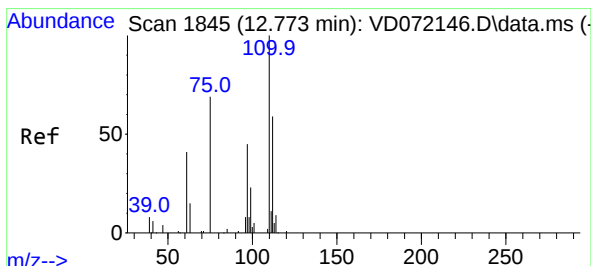
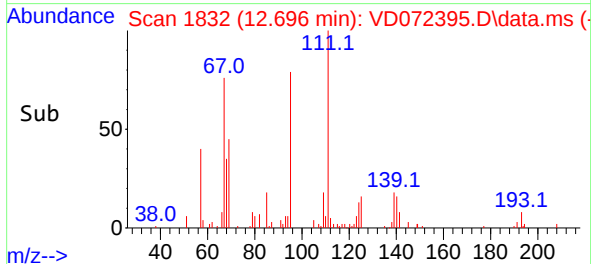
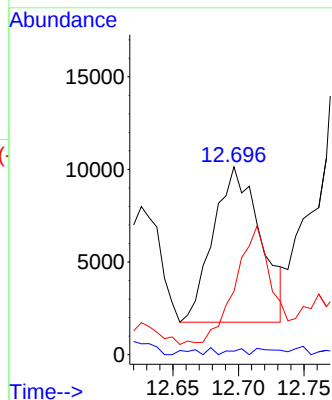
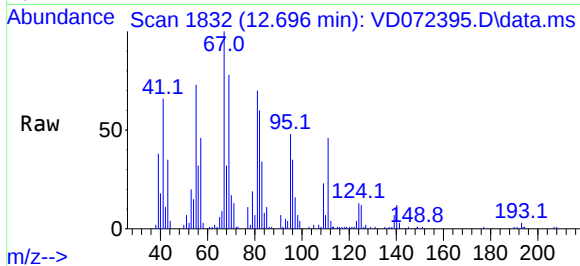




#75
1,1,2,2-Tetrachloroethane
Concen: 3.188 ug/l
RT: 12.696 min Scan# 1819
Delta R.T. -0.023 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

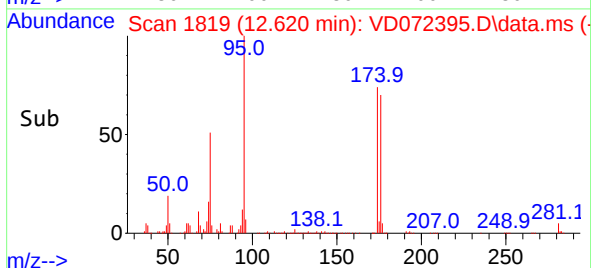
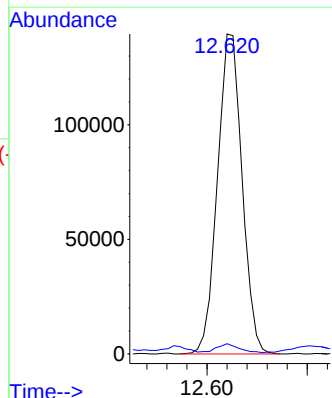
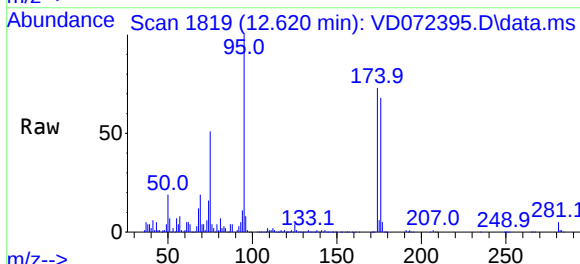
Instrument :
MSVOA_D
ClientSampleId :

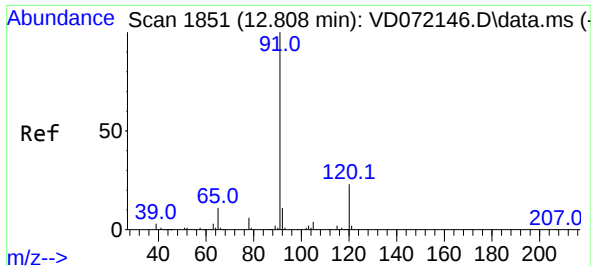
Tgt Ion: 83 Resp: 21035
Ion Ratio Lower Upper
83 100
131 1.2 5.0 14.9#
85 0.0 32.6 98.0#



#76
1,2,3-Trichloropropane
Concen: 46.353 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

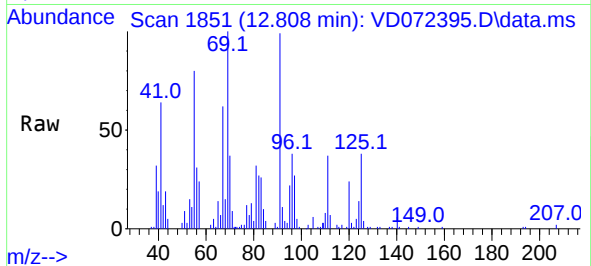
Tgt Ion: 75 Resp: 238015
Ion Ratio Lower Upper
75 100
77 2.5 0.0 0.0#



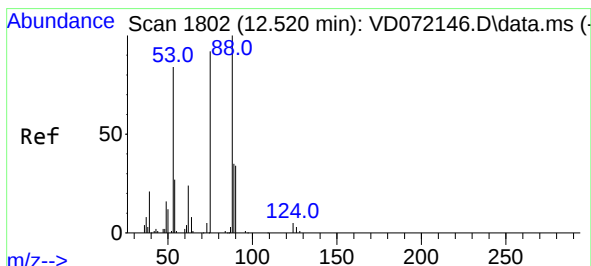
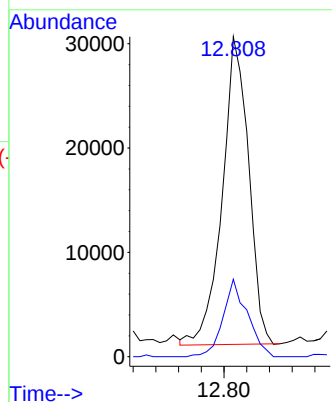
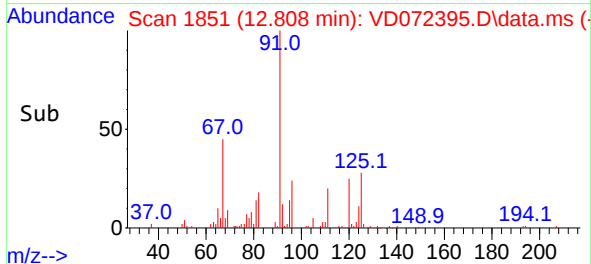


#78
n-propylbenzene
Concen: 1.061 ug/l
RT: 12.808 min Scan# 1819
Delta R.T. 0.000 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30

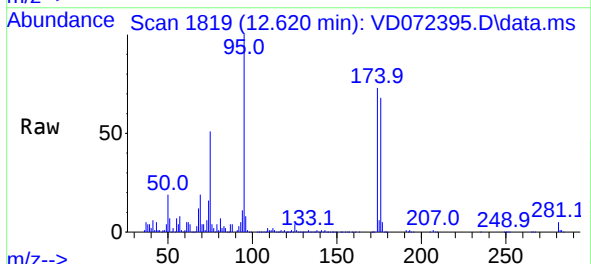
Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 91 Resp: 47537
Ion Ratio Lower Upper
91 100
120 23.3 10.9 32.9



#81
trans-1,4-Dichloro-2-butene
Concen: 115.005 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD072395.D
Acq: 23 Mar 2022 20:30



Tgt Ion: 75 Resp: 238015
Ion Ratio Lower Upper
75 100
53 2.8 86.5 129.7#
89 0.1 33.9 50.9#

