

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD032922\
 Data File : VD072466.D
 Acq On : 29 Mar 2022 16:17
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 30 01:48:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D032922S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 30 01:44:48 2022
 Response via : Initial Calibration

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

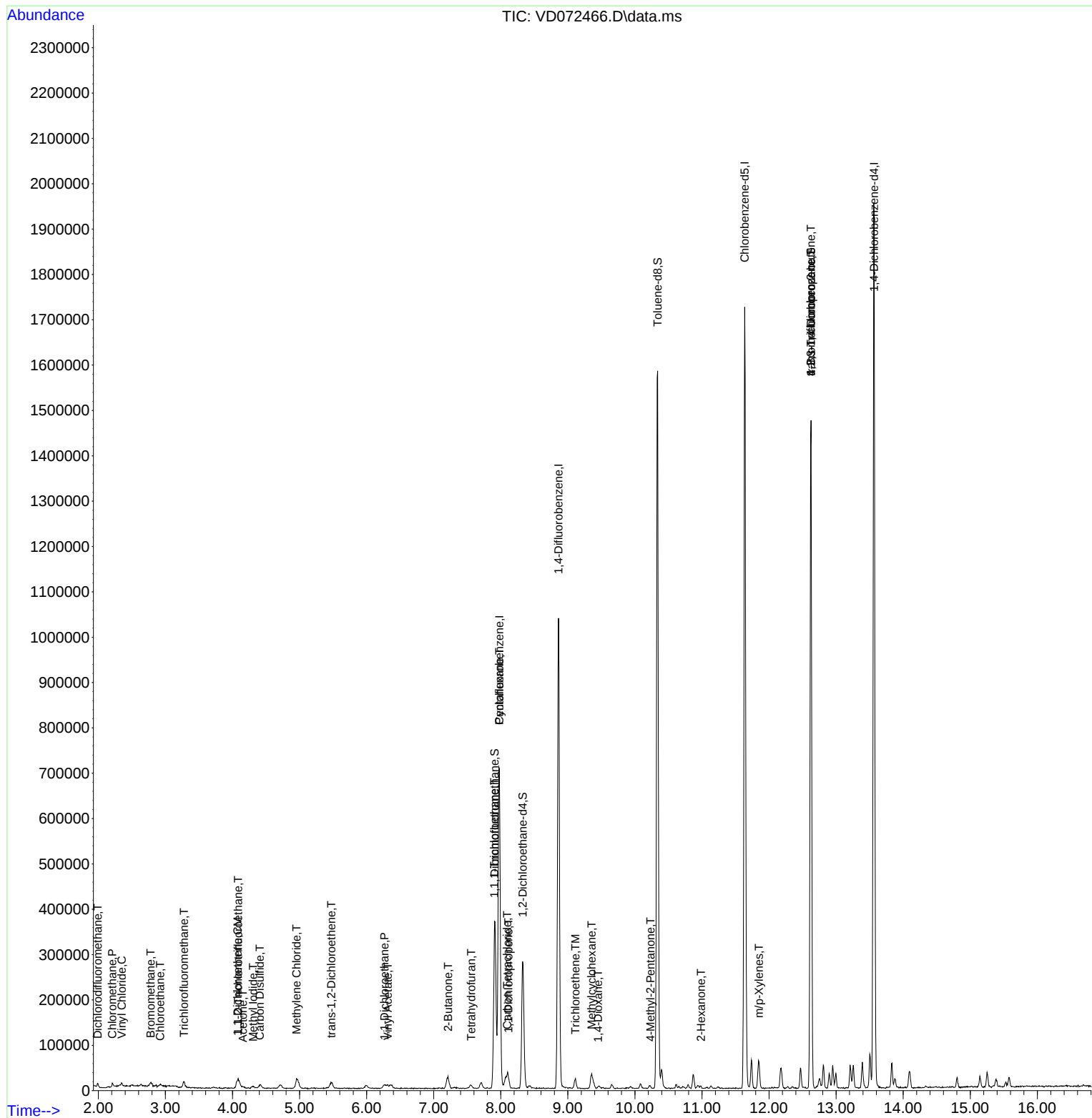
Internal Standards						
1) Pentafluorobenzene	7.979	168	511875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	881554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	1005590	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	526258	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	216221	36.994	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	73.980%		
35) Dibromofluoromethane	7.908	113	267553	41.774	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	83.540%		
50) Toluene-d8	10.338	98	1094354	47.455	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	94.920%		
62) 4-Bromofluorobenzene	12.626	95	511982	57.163	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	114.320%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.991	85	6044	1.301	ug/l	81
3) Chloromethane	2.209	50	6951	1.662	ug/l	94
4) Vinyl Chloride	2.350	62	6828	1.679	ug/l #	79
5) Bromomethane	2.779	94	5914	2.171	ug/l	92
6) Chloroethane	2.920	64	3590	1.320	ug/l	97
7) Trichlorofluoromethane	3.279	101	13398	1.457	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.085	101	9072	1.543	ug/l	93
10) Methyl Iodide	4.309	142	6141	1.296	ug/l #	90
12) 1,1-Dichloroethene	4.079	96	7250	1.533	ug/l #	73
16) Acetone	4.156	43	6114	4.943	ug/l #	57
17) Carbon Disulfide	4.409	76	16945	1.805	ug/l	99
20) Methylene Chloride	4.956	84	16537	2.208	ug/l #	80
21) trans-1,2-Dichloroethene	5.473	96	6689	1.273	ug/l #	80
23) Vinyl Acetate	6.314	43	14469	1.500	ug/l #	60
24) 1,1-Dichloroethane	6.267	63	11662	1.046	ug/l #	83
25) 2-Butanone	7.214	43	2168	1.297	ug/l	91
29) Tetrahydrofuran	7.561	42	1808	1.832	ug/l #	41
31) Cyclohexane	7.979	56	20826	2.361	ug/l #	28
32) 1,1,1-Trichloroethane	7.902	97	13253	1.252	ug/l #	50
36) 1,1-Dichloropropene	8.114	75	11224	1.295	ug/l	96
38) Carbon Tetrachloride	8.097	117	12267	1.235	ug/l	87
39) Methylcyclohexane	9.355	83	11204	1.155	ug/l	86
44) Trichloroethene	9.114	130	7860	1.120	ug/l	87
49) 1,4-Dioxane	9.449	88	239	5.846	ug/l #	40
51) 4-Methyl-2-Pentanone	10.232	43	4574	1.165	ug/l	98
59) 2-Hexanone	10.985	43	3207	1.182	ug/l	99
68) m/p-Xylenes	11.849	106	21287	1.405	ug/l	90
76) 1,2,3-Trichloropropane	12.626	75	251483	42.357	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.626	75	251483	106.010	ug/l #	7

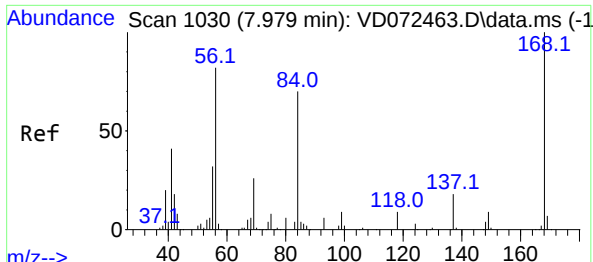
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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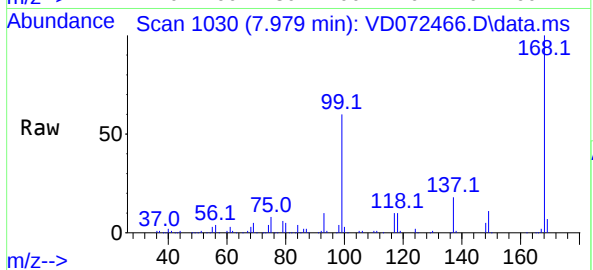
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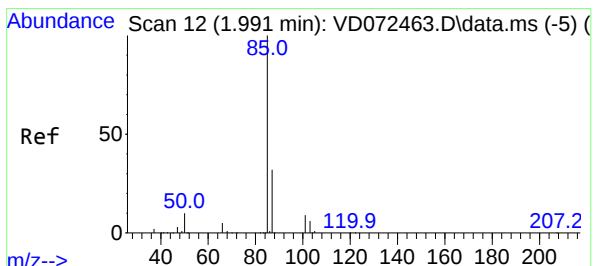
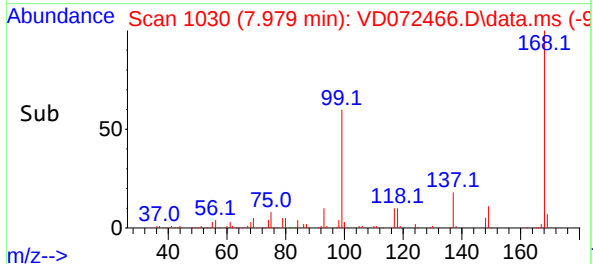
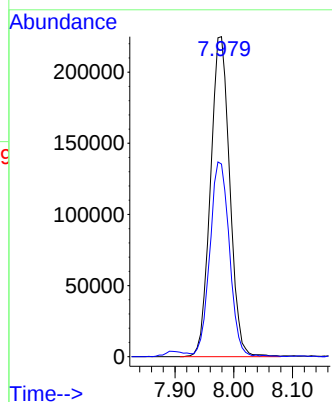


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Instrument :
MSVOA_D
ClientSampleId :

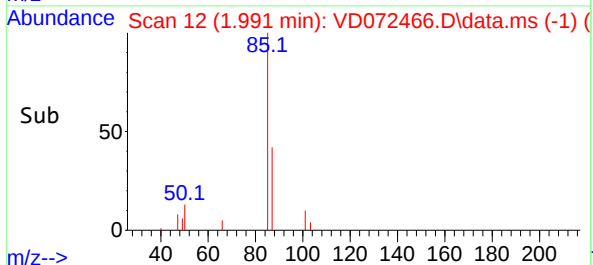
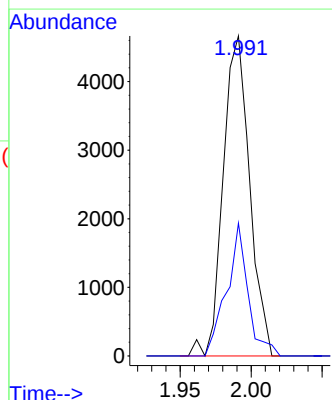
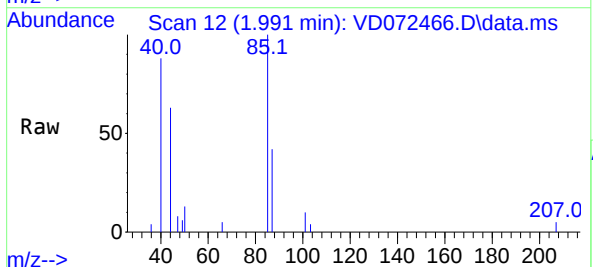


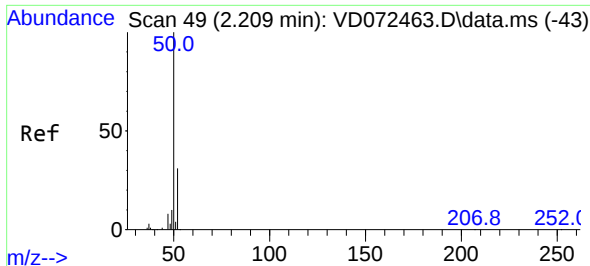
Tgt Ion:168 Resp: 511875
Ion Ratio Lower Upper
168 100
99 60.1 49.8 74.6



#2
Dichlorodifluoromethane
Concen: 1.301 ug/l
RT: 1.991 min Scan# 12
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Tgt Ion: 85 Resp: 6044
Ion Ratio Lower Upper
85 100
87 41.5 15.7 47.0

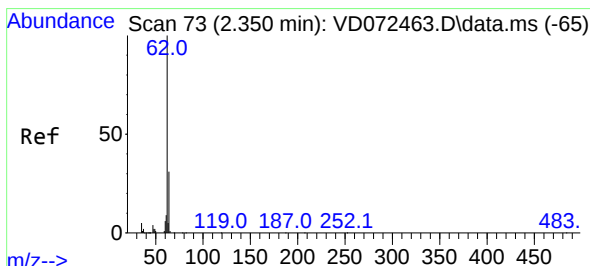
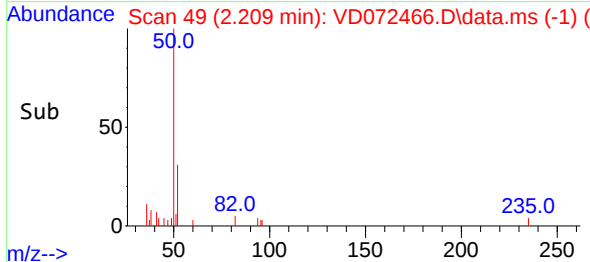
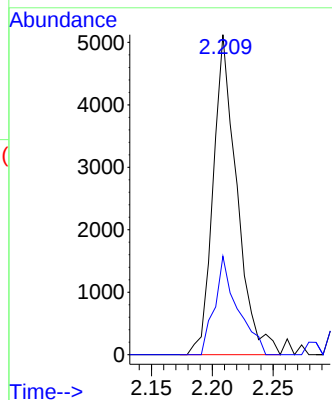
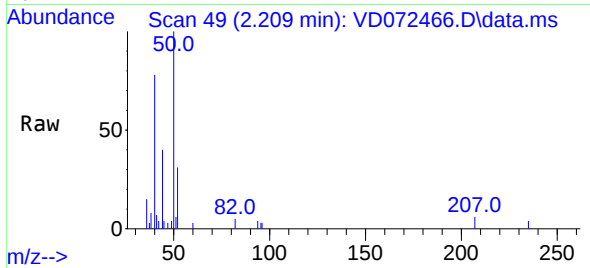




#3
Chloromethane
Concen: 1.662 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

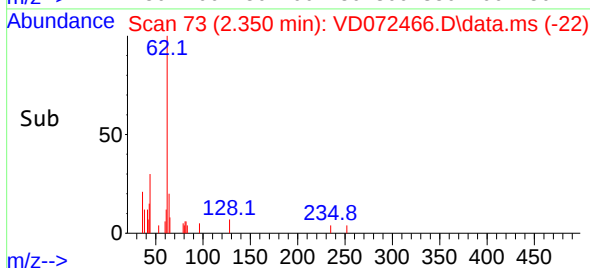
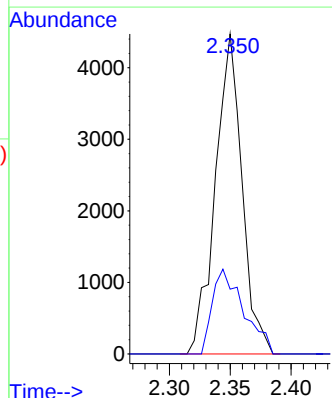
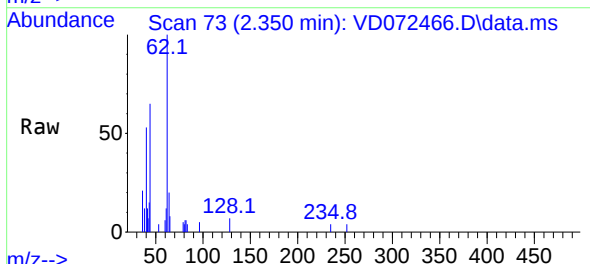
Instrument :
MSVOA_D
ClientSampleId :

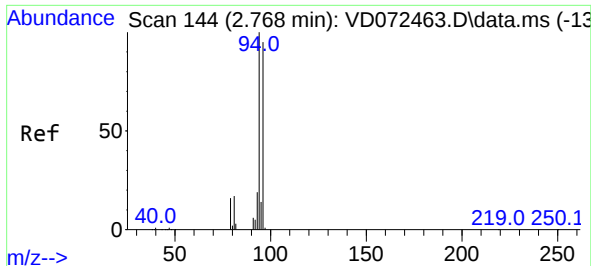
Tgt Ion: 50 Resp: 6951
Ion Ratio Lower Upper
50 100
52 30.7 27.4 41.0



#4
Vinyl Chloride
Concen: 1.679 ug/l
RT: 2.350 min Scan# 73
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Tgt Ion: 62 Resp: 6828
Ion Ratio Lower Upper
62 100
64 20.3 25.4 38.0#

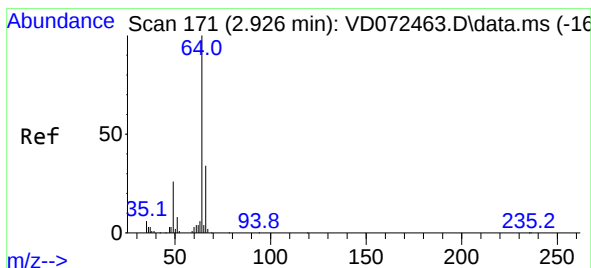
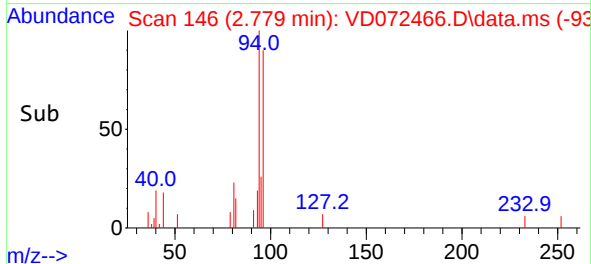
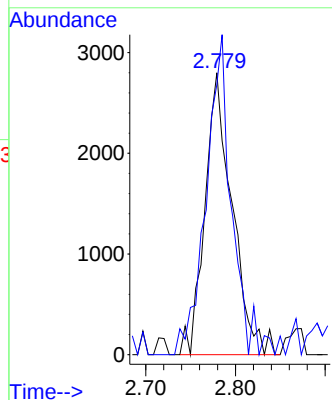
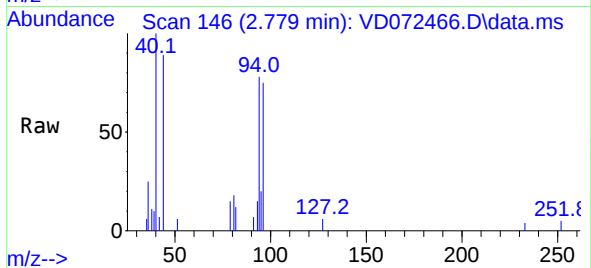




#5
Bromomethane
Concen: 2.171 ug/l
RT: 2.779 min Scan# 144
Delta R.T. 0.012 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

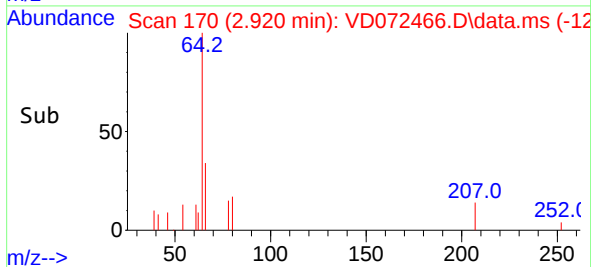
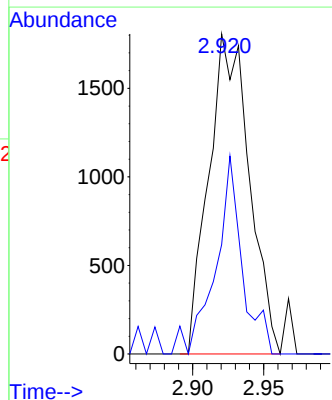
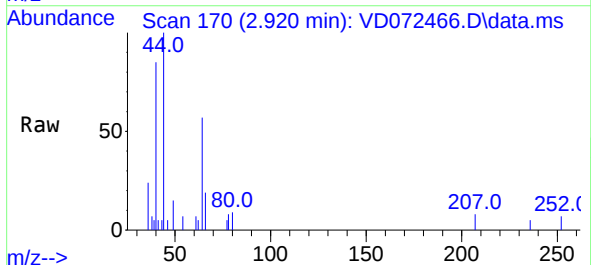
Instrument :
MSVOA_D
ClientSampleId :

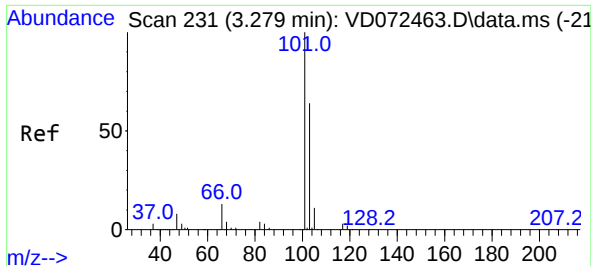
Tgt Ion: 94 Resp: 5914
Ion Ratio Lower Upper
94 100
96 89.2 77.6 116.4



#6
Chloroethane
Concen: 1.320 ug/l
RT: 2.920 min Scan# 170
Delta R.T. -0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Tgt Ion: 64 Resp: 3590
Ion Ratio Lower Upper
64 100
66 34.1 25.9 38.9





#7 Trichlorofluoromethane

Concen: 1.457 ug/l

RT: 3.279 min Scan# 21

Delta R.T. -0.000 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

Instrument :

MSVOA_D

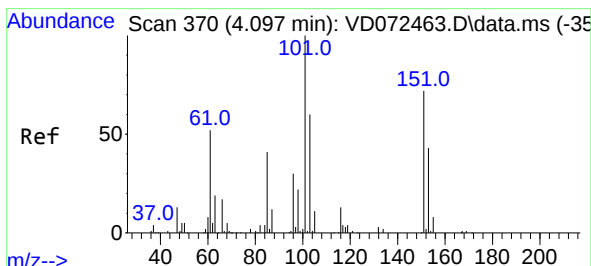
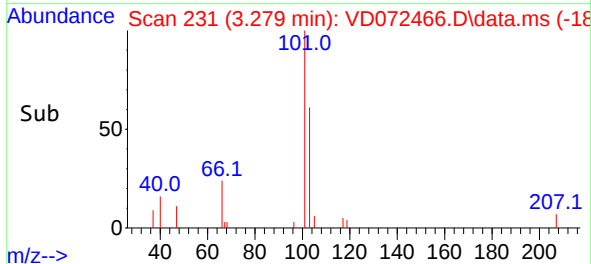
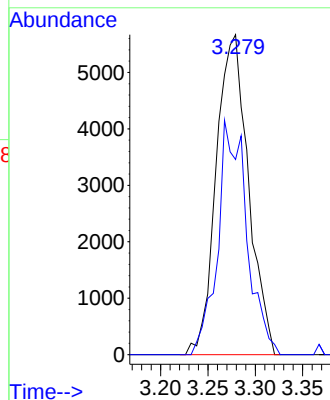
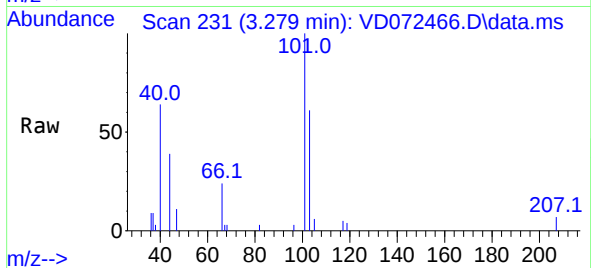
ClientSampleId :

Tgt Ion:101 Resp: 13398

Ion Ratio Lower Upper

101 100

103 61.0 50.1 75.1



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.543 ug/l

RT: 4.085 min Scan# 368

Delta R.T. -0.012 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

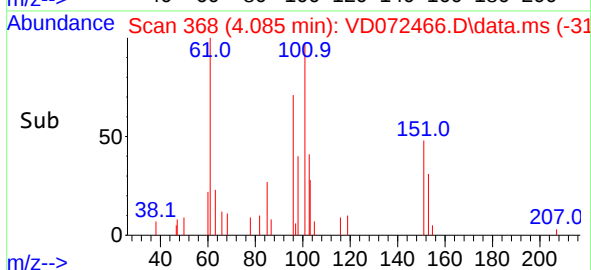
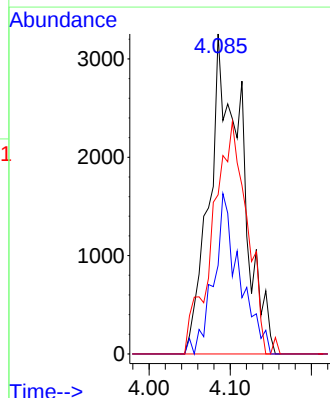
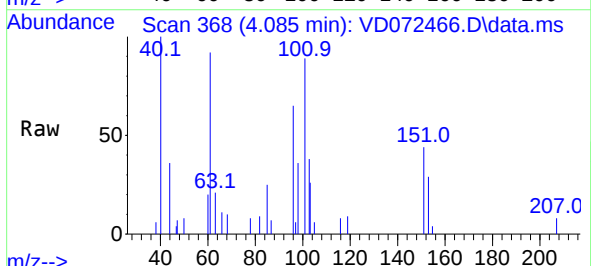
Tgt Ion:101 Resp: 9072

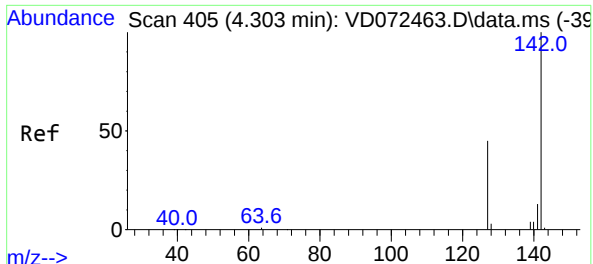
Ion Ratio Lower Upper

101 100

85 39.7 36.4 54.6

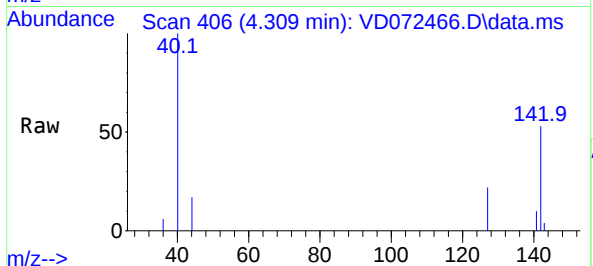
151 76.6 57.3 85.9



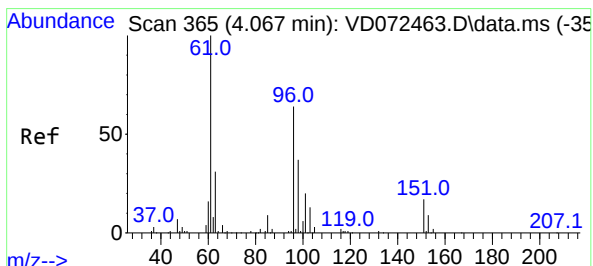
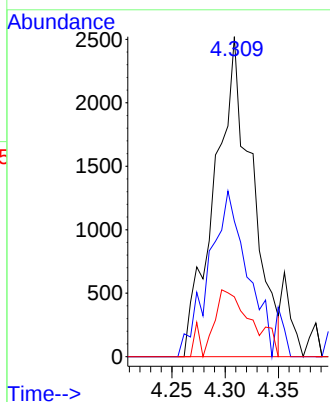
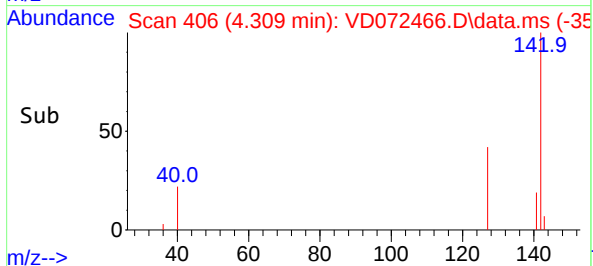


#10
Methyl Iodide
Concen: 1.296 ug/l
RT: 4.309 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

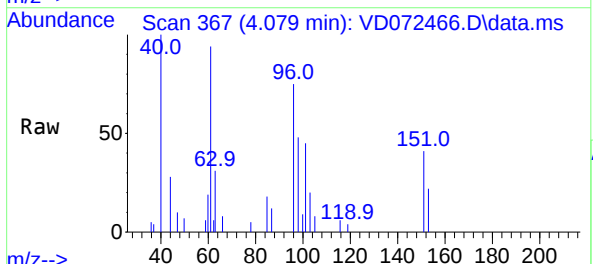
Instrument :
MSVOA_D
ClientSampleId :



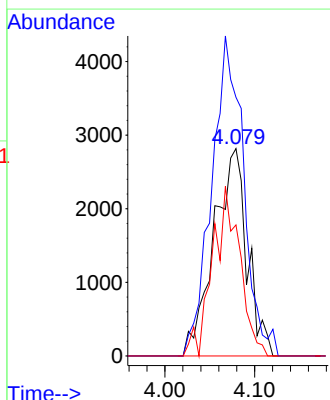
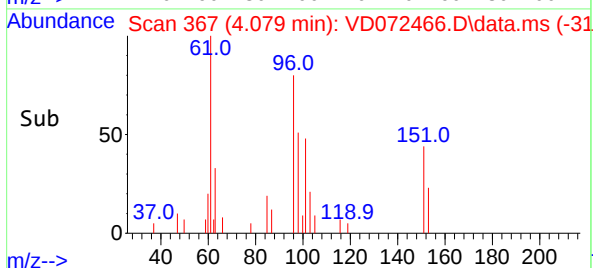
Tgt Ion:142 Resp: 6141
Ion Ratio Lower Upper
142 100
127 52.9 37.3 55.9
141 20.3 11.7 17.5#

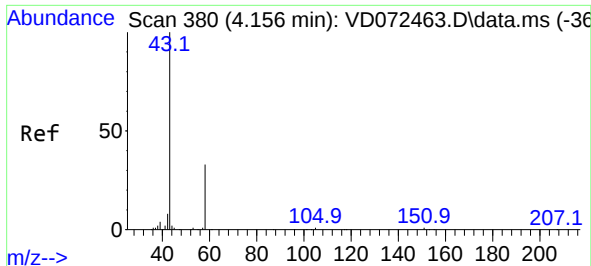


#12
1,1-Dichloroethene
Concen: 1.533 ug/l
RT: 4.079 min Scan# 367
Delta R.T. 0.012 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17



Tgt Ion: 96 Resp: 7250
Ion Ratio Lower Upper
96 100
61 124.8 138.5 207.7#
98 63.2 48.6 73.0

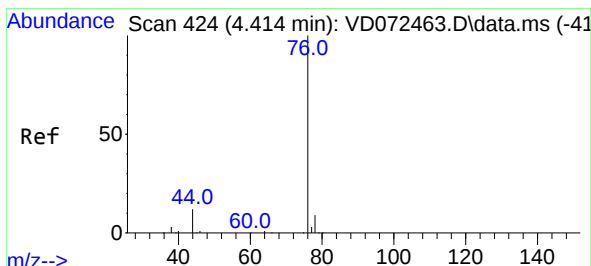
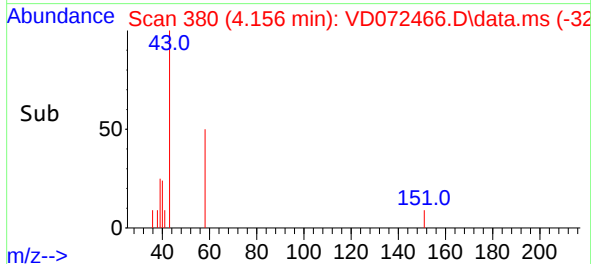
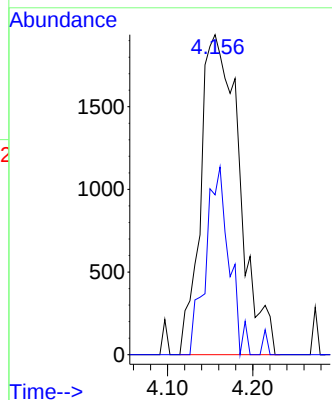
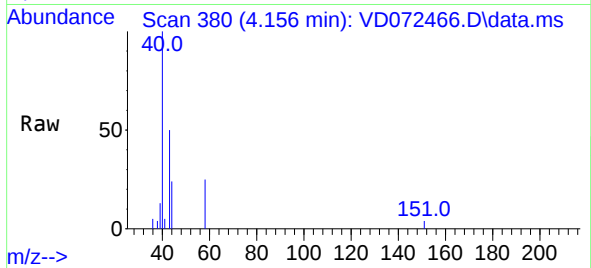




#16
Acetone
Concen: 4.943 ug/l
RT: 4.156 min Scan# 311
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

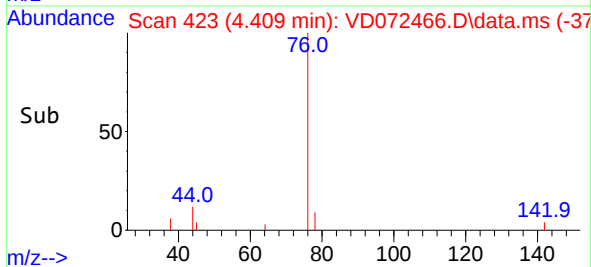
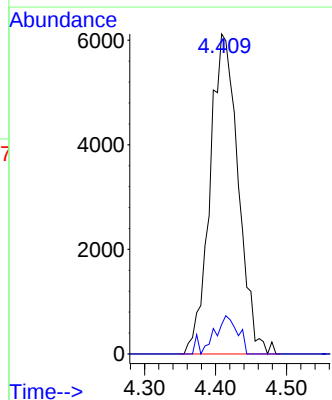
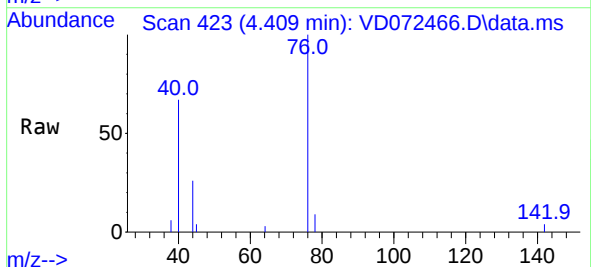
Instrument :
MSVOA_D
ClientSampleId :

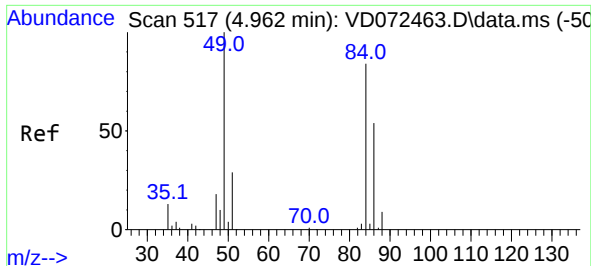
Tgt Ion: 43 Resp: 6114
Ion Ratio Lower Upper
43 100
58 49.9 22.1 33.1#



#17
Carbon Disulfide
Concen: 1.805 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

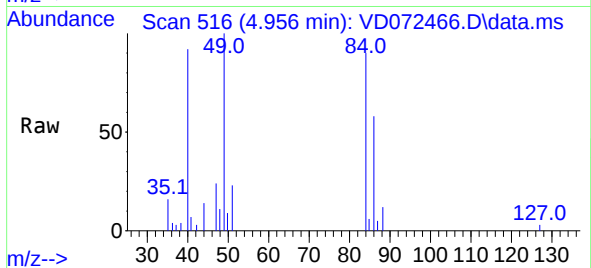
Tgt Ion: 76 Resp: 16945
Ion Ratio Lower Upper
76 100
78 9.2 7.5 11.3





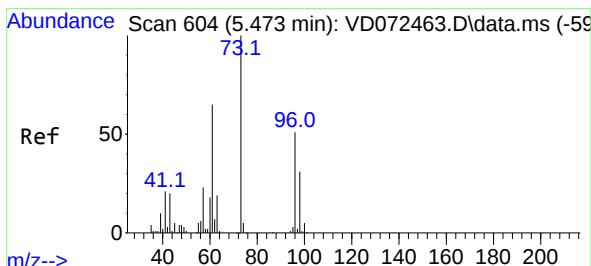
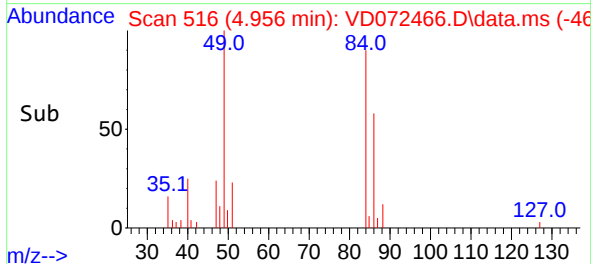
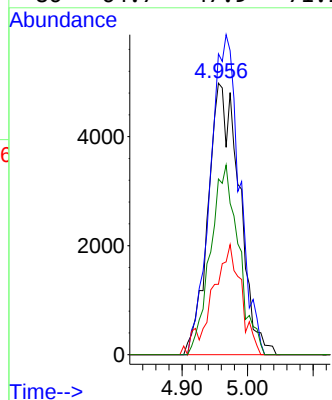
#20
Methylene Chloride
Concen: 2.208 ug/l
RT: 4.956 min Scan# 517
Delta R.T. -0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 16537

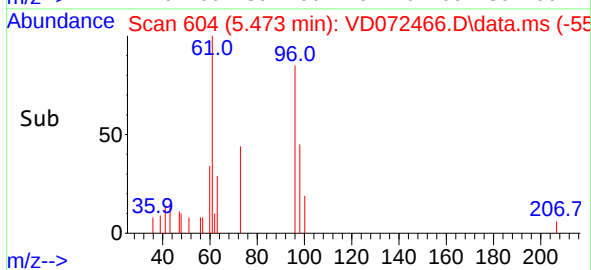
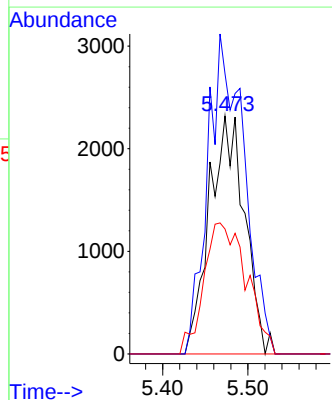
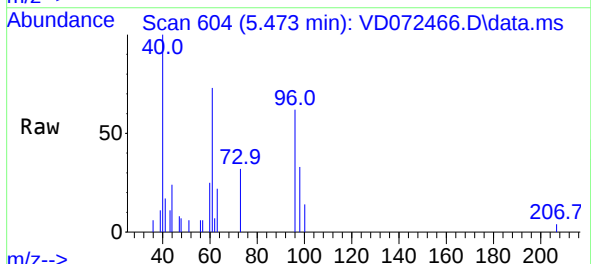
Ion	Ratio	Lower	Upper
84	100		
49	110.8	112.8	169.2#
51	25.9	32.6	48.8#
86	64.7	47.9	71.9

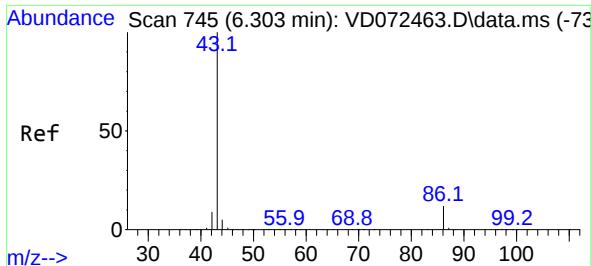


#21
trans-1,2-Dichloroethene
Concen: 1.273 ug/l
RT: 5.473 min Scan# 604
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Tgt Ion: 96 Resp: 6689

Ion	Ratio	Lower	Upper
96	100		
61	117.9	117.9	176.9#
98	52.5	49.4	74.2

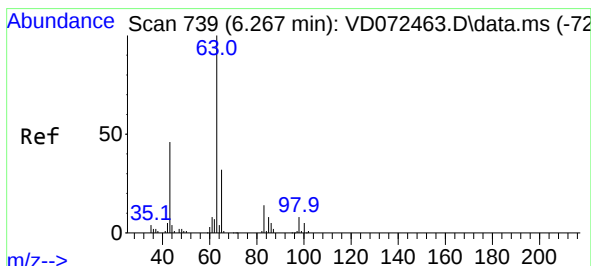
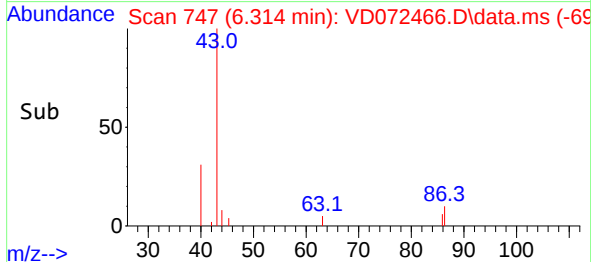
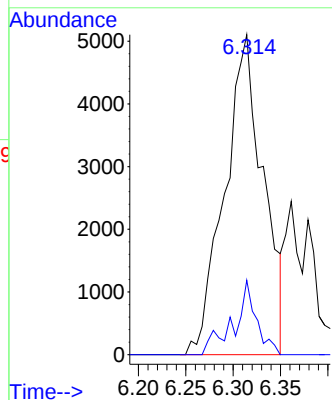
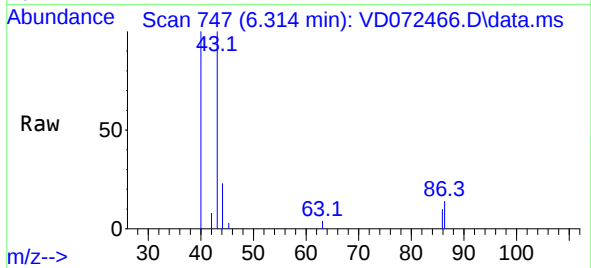




#23
 Vinyl Acetate
 Concen: 1.500 ug/l
 RT: 6.314 min Scan# 745
 Delta R.T. 0.012 min
 Lab File: VD072466.D
 Acq: 29 Mar 2022 16:17

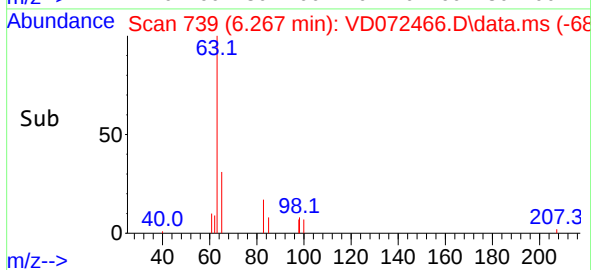
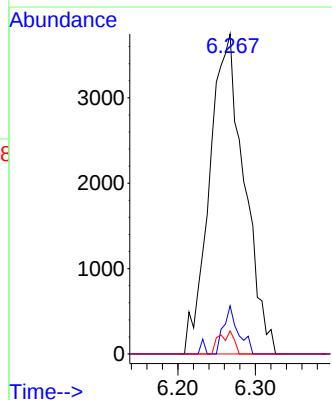
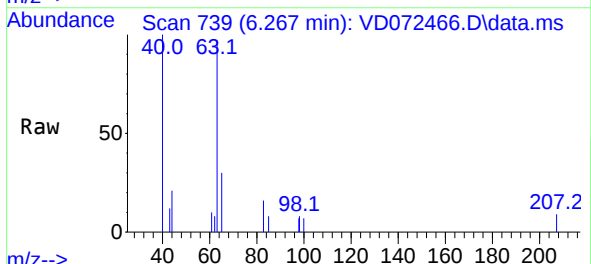
Instrument :
 MSVOA_D
 ClientSampleId :

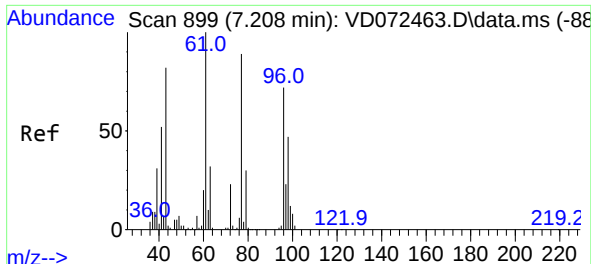
Tgt Ion: 43 Resp: 14469
 Ion Ratio Lower Upper
 43 100
 86 23.3 7.1 10.7#



#24
 1,1-Dichloroethane
 Concen: 1.046 ug/l
 RT: 6.267 min Scan# 739
 Delta R.T. -0.000 min
 Lab File: VD072466.D
 Acq: 29 Mar 2022 16:17

Tgt Ion: 63 Resp: 11662
 Ion Ratio Lower Upper
 63 100
 98 15.1 3.6 10.9#
 100 7.2 2.1 6.5#





#25

2-Butanone

Concen: 1.297 ug/l

RT: 7.214 min Scan# 900

Delta R.T. 0.006 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

Instrument :

MSVOA_D

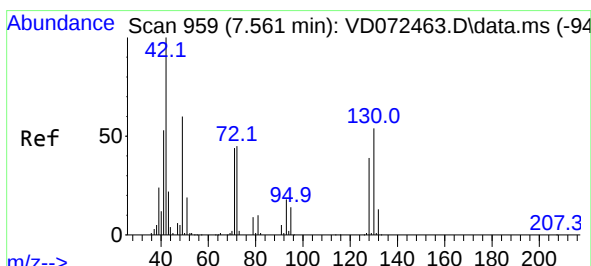
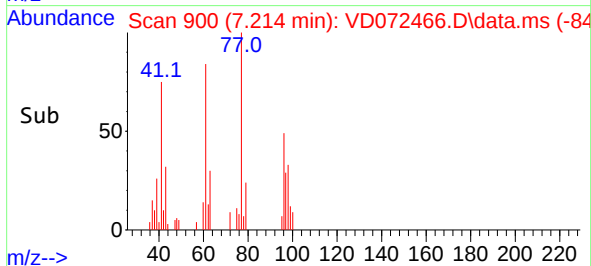
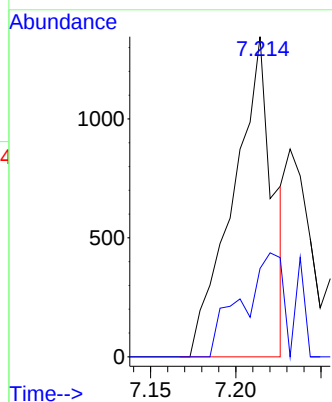
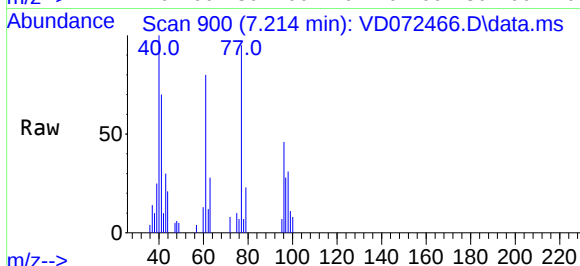
ClientSampleId :

Tgt Ion: 43 Resp: 2168

Ion Ratio Lower Upper

43 100

72 27.6 18.6 27.8



#29

Tetrahydrofuran

Concen: 1.832 ug/l

RT: 7.561 min Scan# 959

Delta R.T. -0.000 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

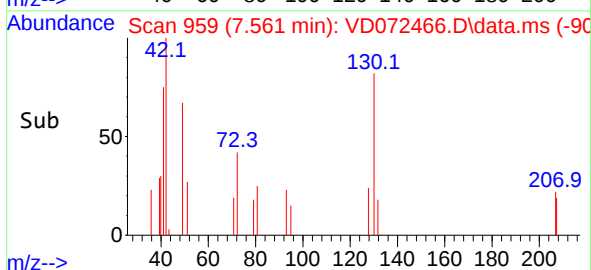
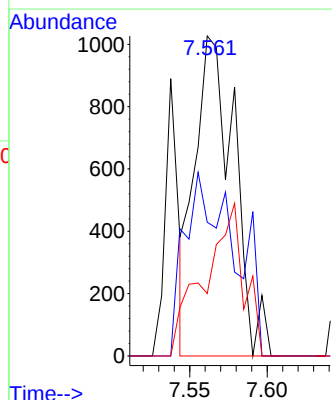
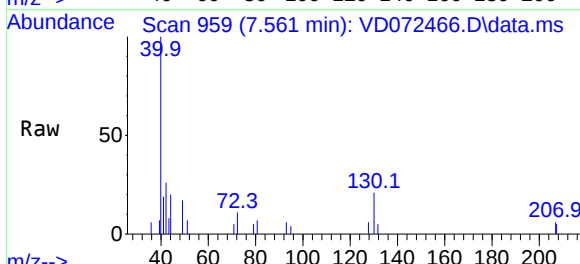
Tgt Ion: 42 Resp: 1808

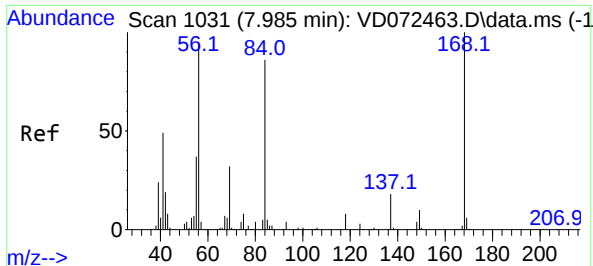
Ion Ratio Lower Upper

42 100

72 72.6 30.7 46.1#

71 0.0 28.6 43.0#





#31

Cyclohexane

Concen: 2.361 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.006 min

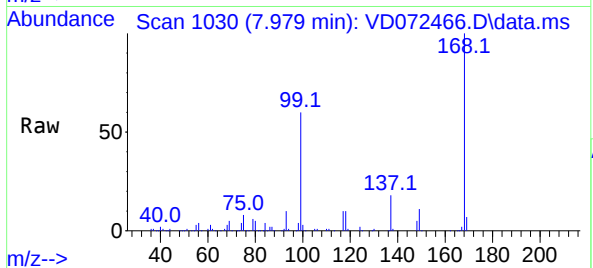
Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

Instrument :

MSVOA_D

ClientSampleId :



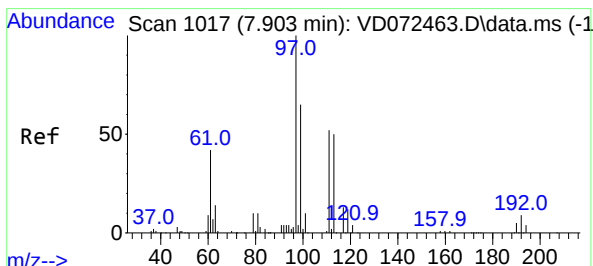
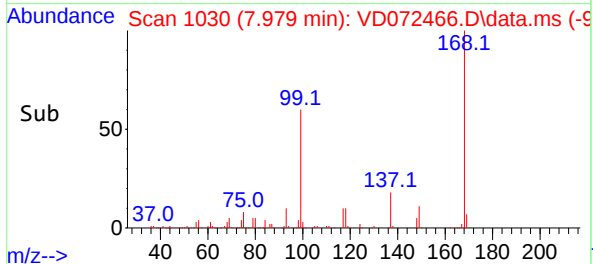
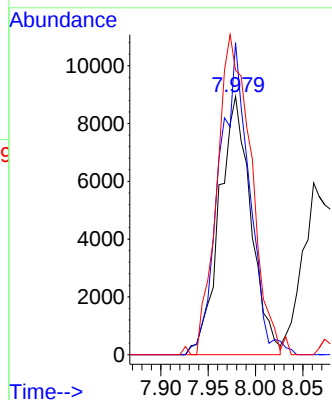
Tgt Ion: 56 Resp: 20826

Ion Ratio Lower Upper

56 100

69 120.8 25.4 38.2#

84 110.1 63.0 94.4#



#32

1,1,1-Trichloroethane

Concen: 1.252 ug/l

RT: 7.902 min Scan# 1017

Delta R.T. -0.000 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

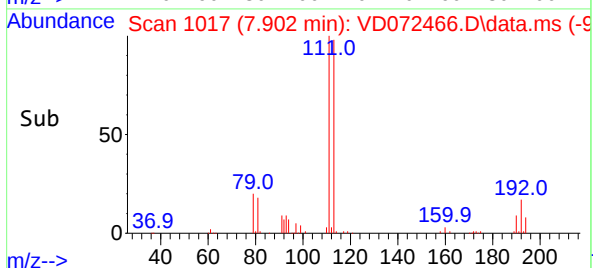
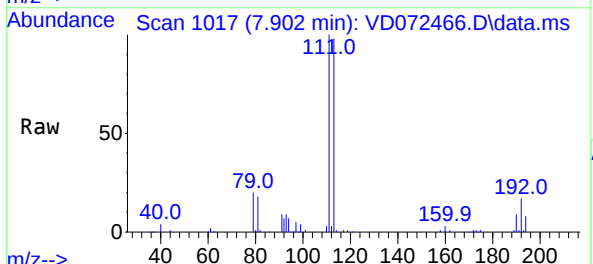
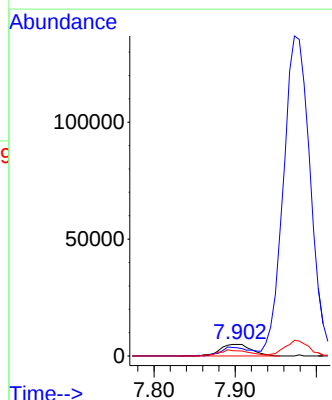
Tgt Ion: 97 Resp: 13253

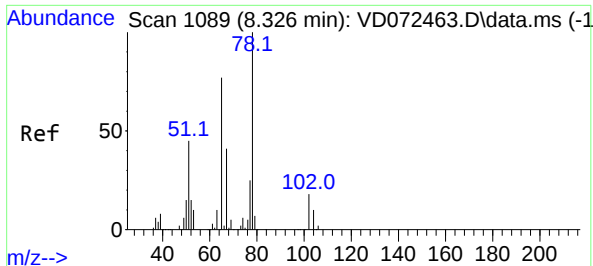
Ion Ratio Lower Upper

97 100

99 0.0 52.4 78.6#

61 50.1 38.0 57.0





#33

1,2-Dichloroethane-d4

Concen: 36.994 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

Instrument :

MSVOA_D

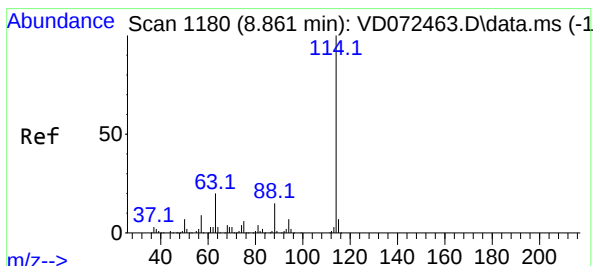
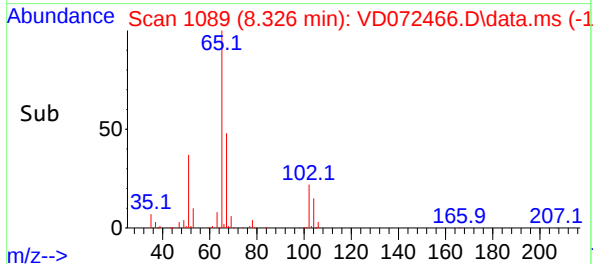
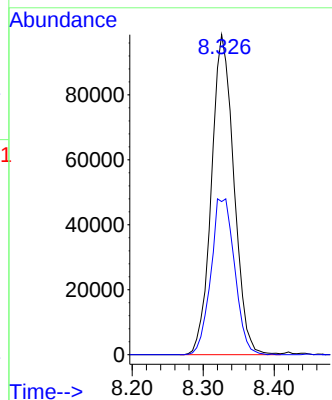
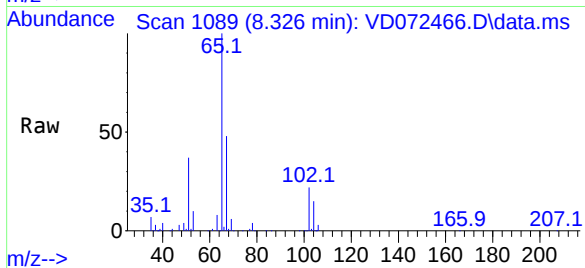
ClientSampleId :

Tgt Ion: 65 Resp: 216221

Ion Ratio Lower Upper

65 100

67 51.7 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: VD072466.D

Acq: 29 Mar 2022 16:17

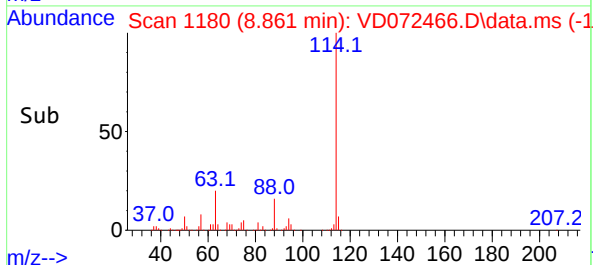
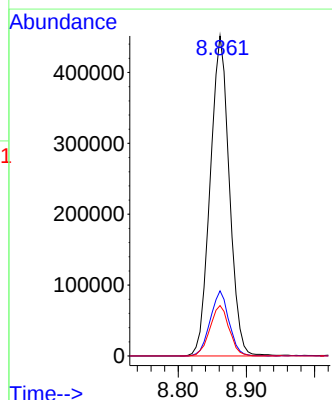
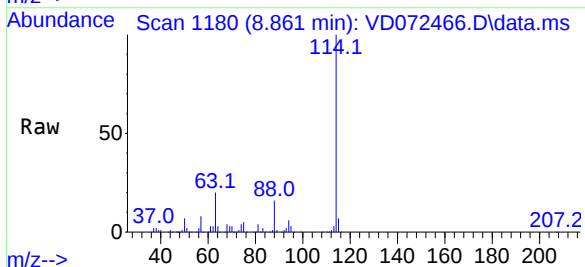
Tgt Ion: 114 Resp: 881554

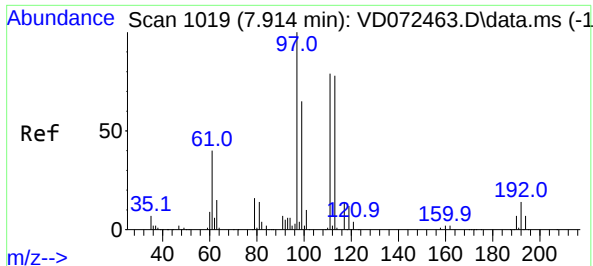
Ion Ratio Lower Upper

114 100

63 20.4 0.0 46.6

88 15.8 0.0 33.2





#35

Dibromofluoromethane

Concen: 41.774 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

Instrument :

MSVOA_D

ClientSampleId :

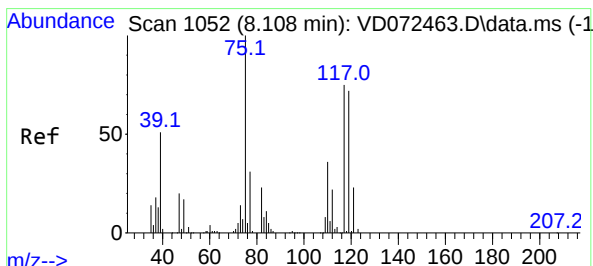
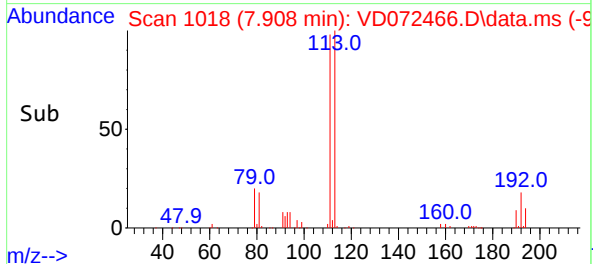
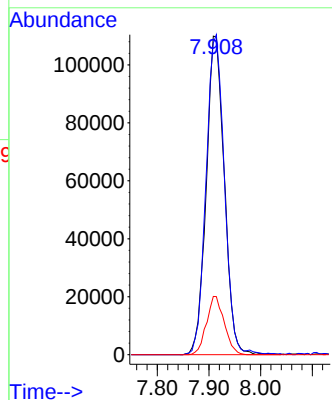
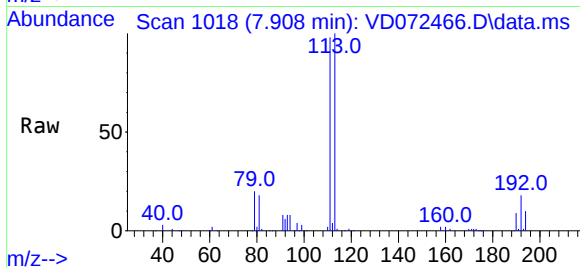
Tgt Ion:113 Resp: 267553

Ion Ratio Lower Upper

113 100

111 101.6 83.8 125.6

192 17.9 14.6 21.8



#36

1,1-Dichloropropene

Concen: 1.295 ug/l

RT: 8.114 min Scan# 1053

Delta R.T. 0.006 min

Lab File: VD072466.D

Acq: 29 Mar 2022 16:17

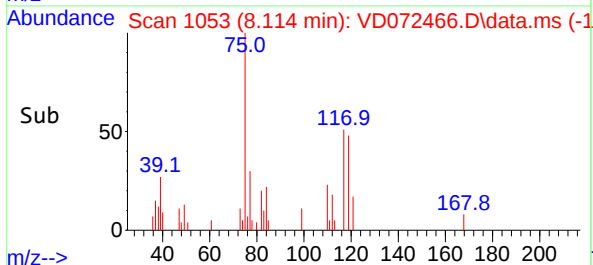
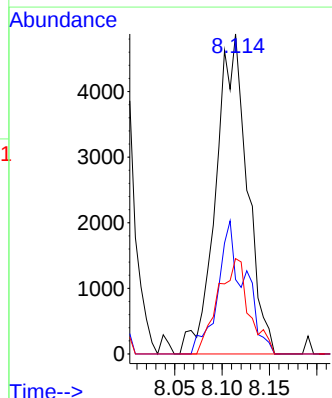
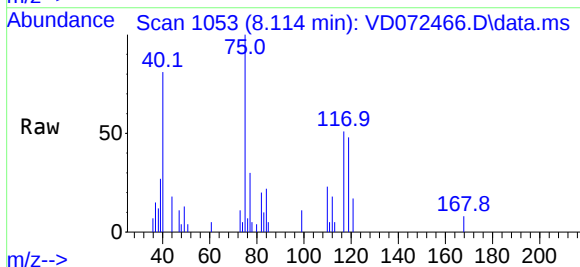
Tgt Ion: 75 Resp: 11224

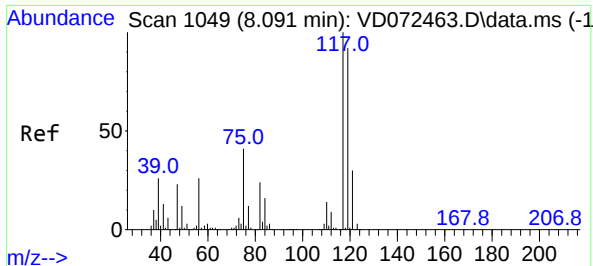
Ion Ratio Lower Upper

75 100

110 35.9 16.4 49.1

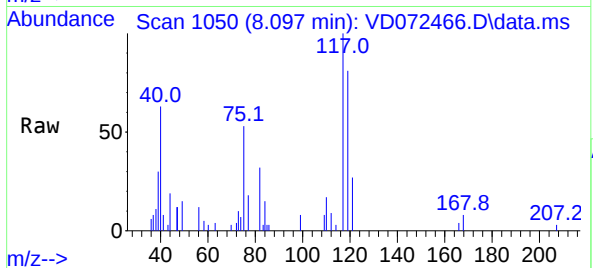
77 29.5 24.2 36.2



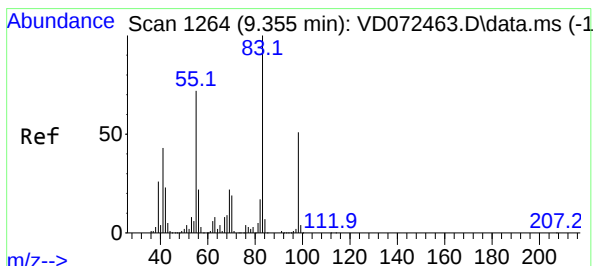
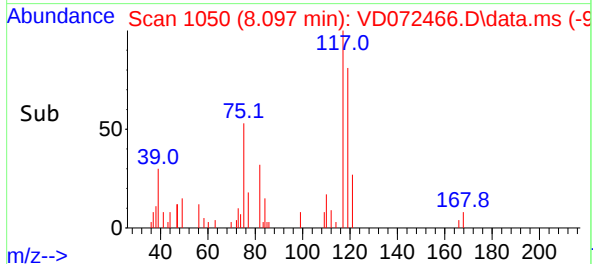
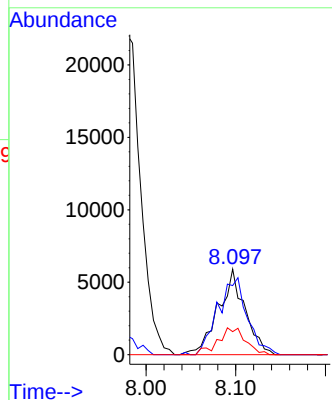


#38
Carbon Tetrachloride
Concen: 1.235 ug/l
RT: 8.097 min Scan# 1049
Delta R.T. 0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Instrument :
MSVOA_D
ClientSampleId :

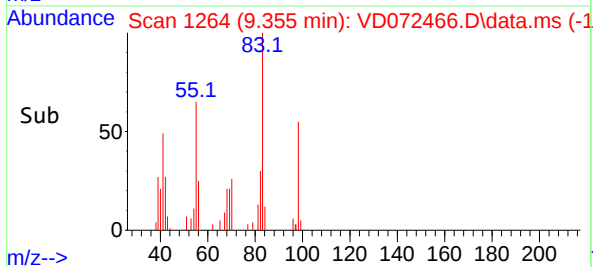
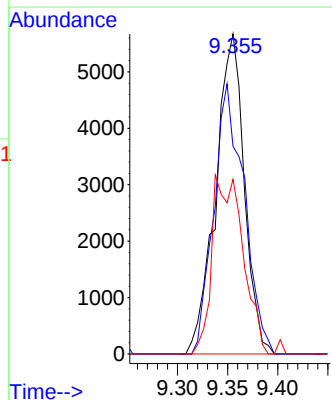
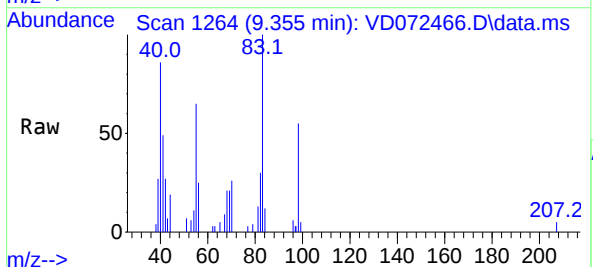


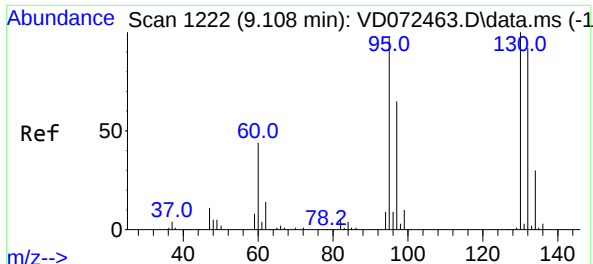
Tgt Ion:117 Resp: 12267
Ion Ratio Lower Upper
117 100
119 80.6 75.8 113.6
121 26.9 24.5 36.7



#39
Methylcyclohexane
Concen: 1.155 ug/l
RT: 9.355 min Scan# 1264
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Tgt Ion: 83 Resp: 11204
Ion Ratio Lower Upper
83 100
55 64.9 63.2 94.8
98 54.5 38.2 57.4

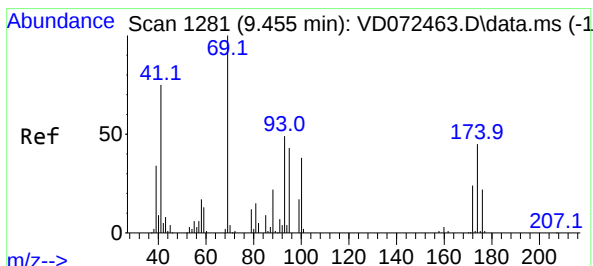
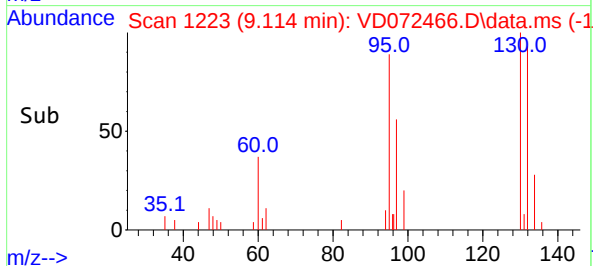
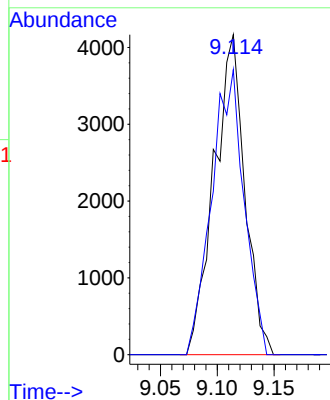
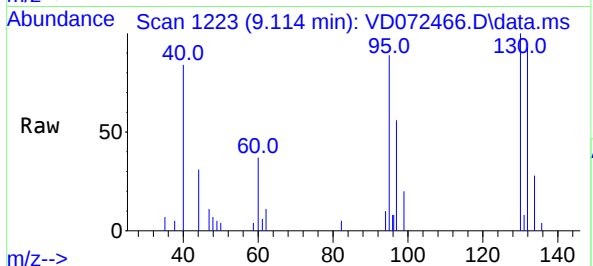




#44
Trichloroethene
Concen: 1.120 ug/l
RT: 9.114 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

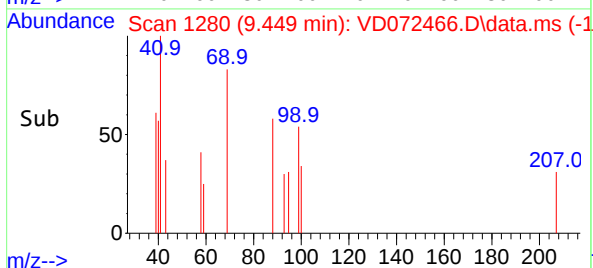
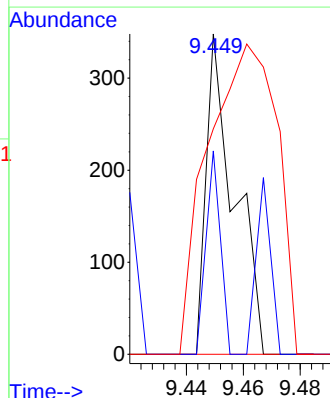
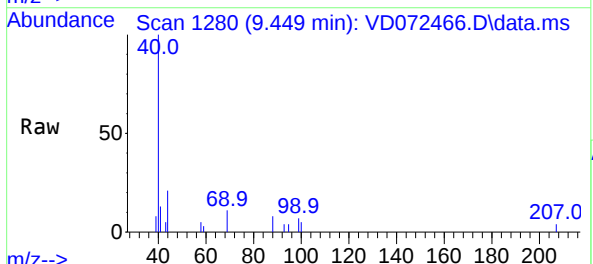
Instrument :
MSVOA_D
ClientSampleId :

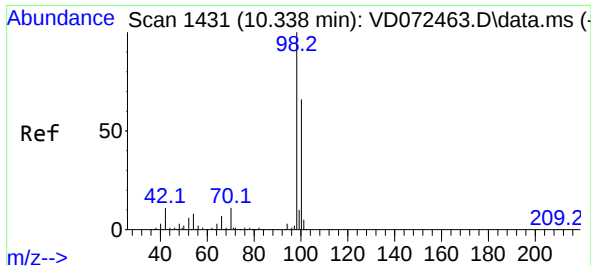
Tgt Ion:130 Resp: 7860
Ion Ratio Lower Upper
130 100
95 89.1 0.0 205.4



#49
1,4-Dioxane
Concen: 5.846 ug/l
RT: 9.449 min Scan# 1280
Delta R.T. -0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Tgt Ion: 88 Resp: 239
Ion Ratio Lower Upper
88 100
43 32.6 31.0 46.4
58 0.0 58.1 87.1#

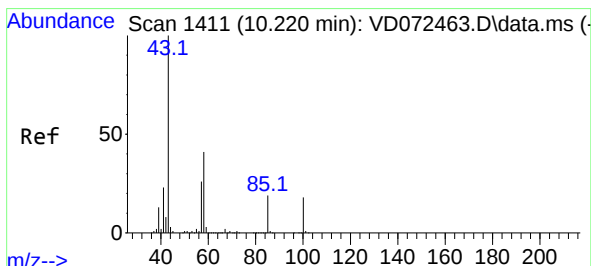
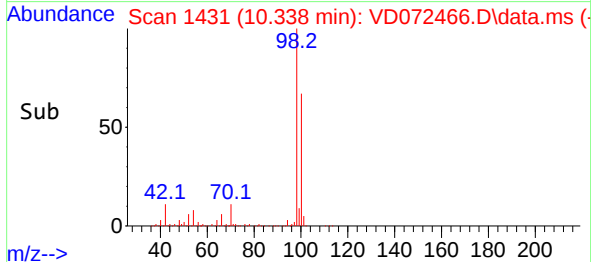
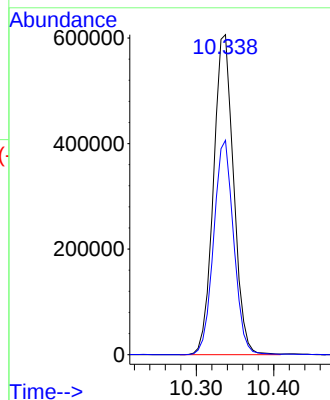
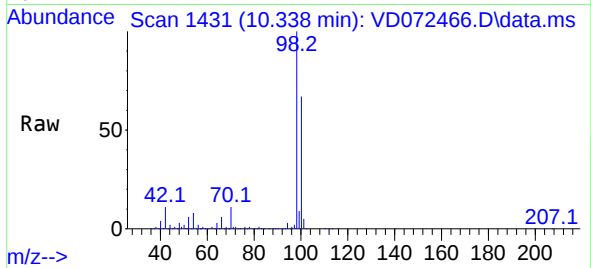




#50
Toluene-d8
Concen: 47.455 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

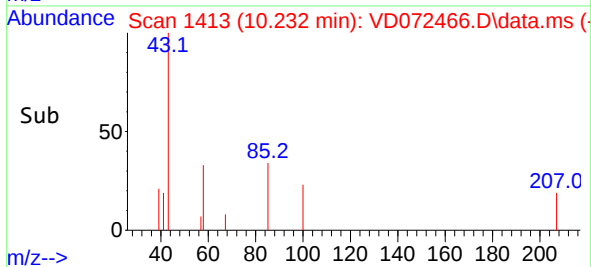
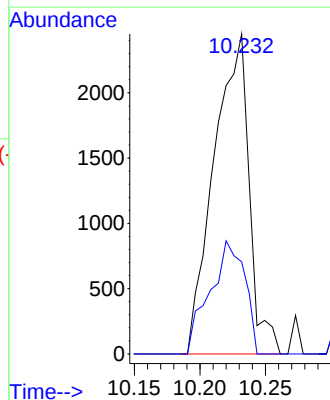
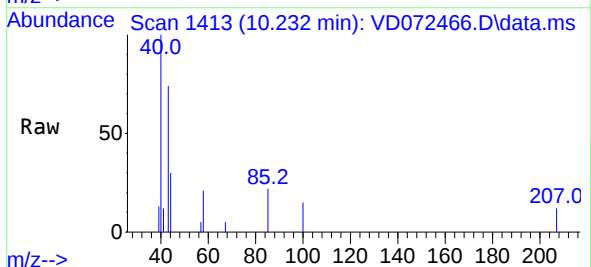
Instrument :
MSVOA_D
ClientSampleId :

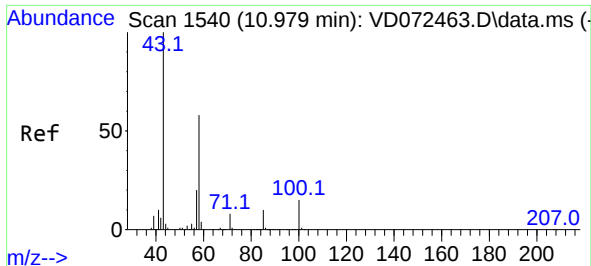
Tgt Ion: 98 Resp: 1094354
Ion Ratio Lower Upper
98 100
100 66.7 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 1.165 ug/l
RT: 10.232 min Scan# 1413
Delta R.T. 0.012 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Tgt Ion: 43 Resp: 4574
Ion Ratio Lower Upper
43 100
58 34.8 28.6 43.0

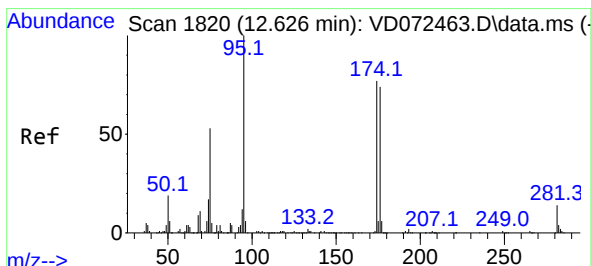
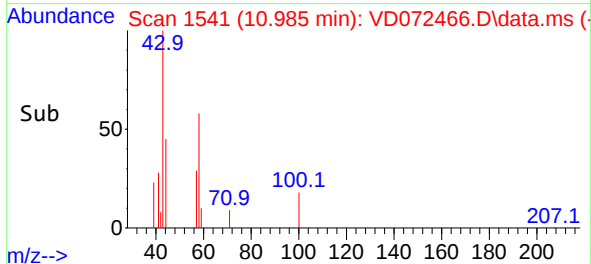
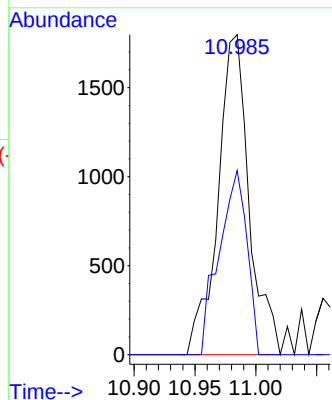
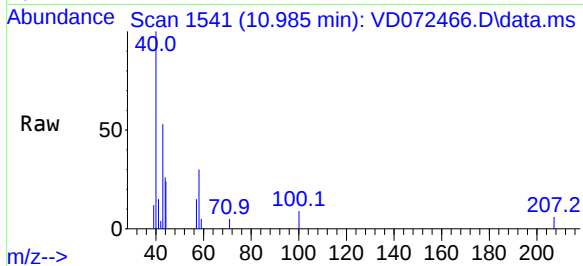




#59
2-Hexanone
Concen: 1.182 ug/l
RT: 10.985 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

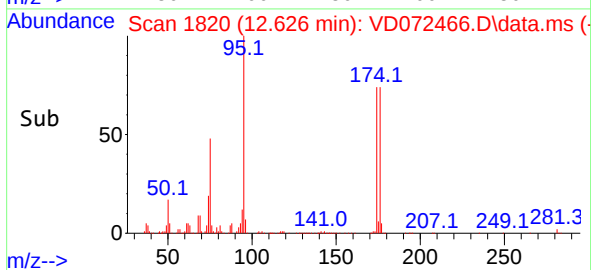
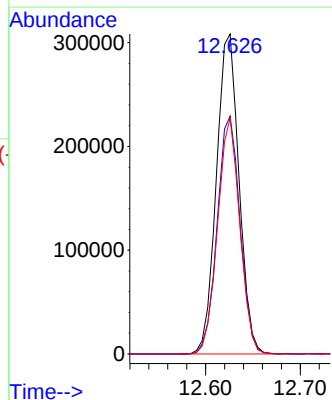
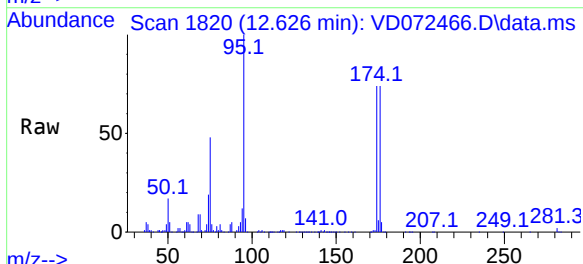
Instrument :
MSVOA_D
ClientSampleId :

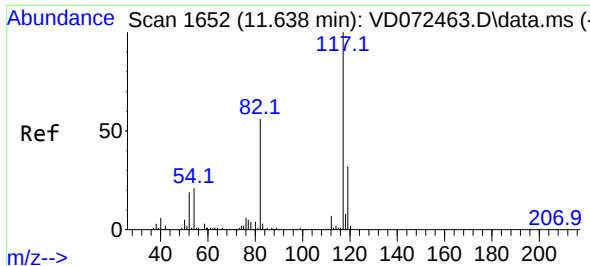
Tgt Ion: 43 Resp: 3207
Ion Ratio Lower Upper
43 100
58 51.4 25.3 75.9



#62
4-Bromofluorobenzene
Concen: 57.163 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

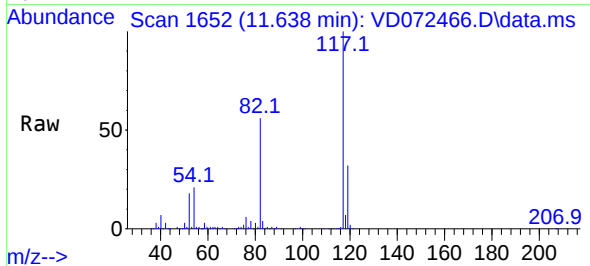
Tgt Ion: 95 Resp: 511982
Ion Ratio Lower Upper
95 100
174 75.1 0.0 152.8
176 72.0 0.0 145.4



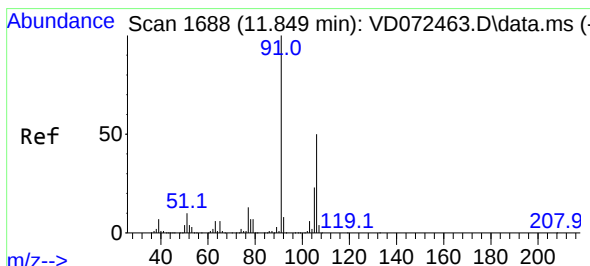
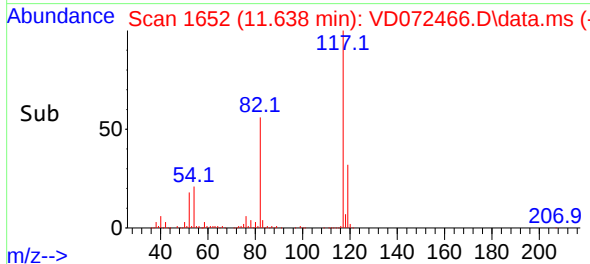
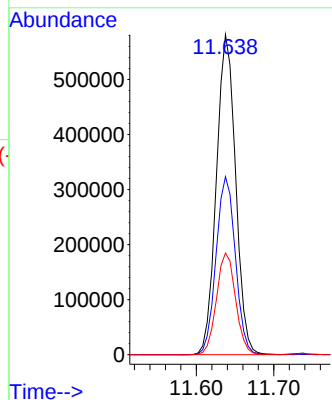


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

Instrument :
MSVOA_D
ClientSampleId :

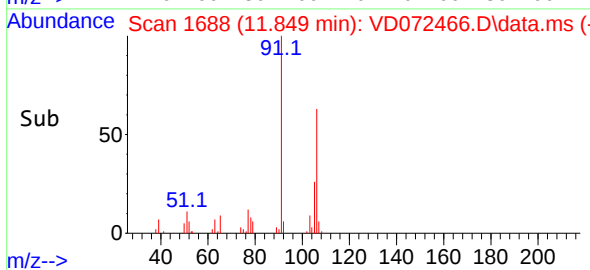
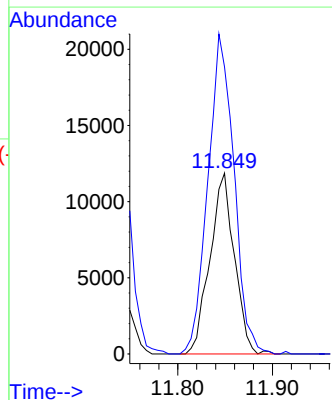
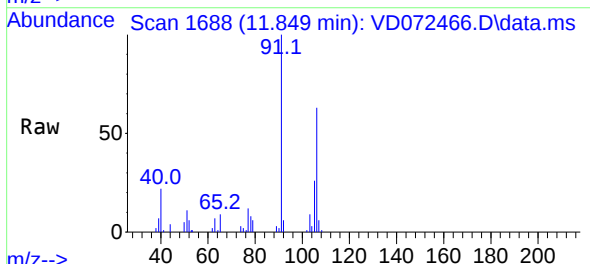


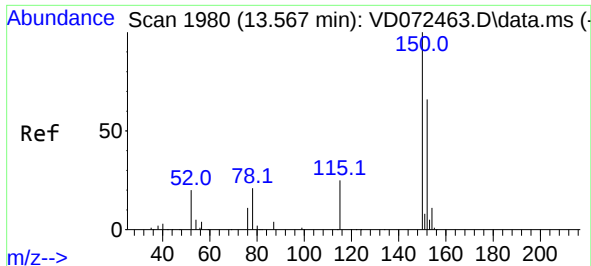
Tgt Ion:117 Resp: 1005590
Ion Ratio Lower Upper
117 100
82 55.6 45.3 67.9
119 31.8 26.6 40.0



#68
m/p-Xylenes
Concen: 1.405 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

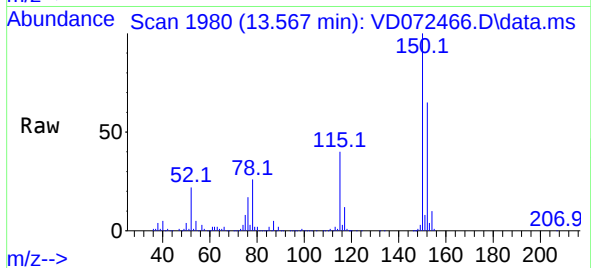
Tgt Ion:106 Resp: 21287
Ion Ratio Lower Upper
106 100
91 188.6 163.7 245.5



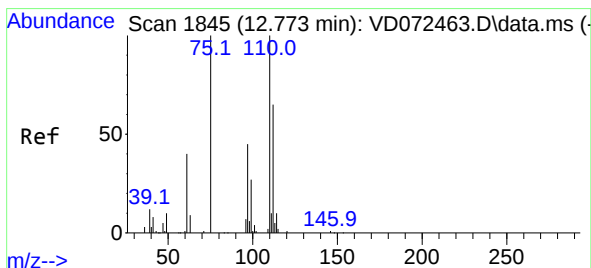
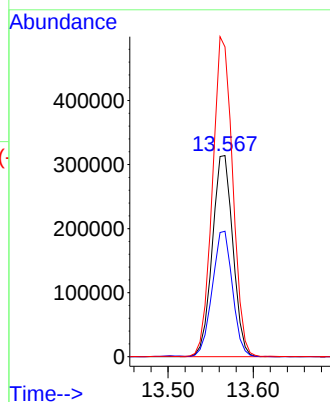
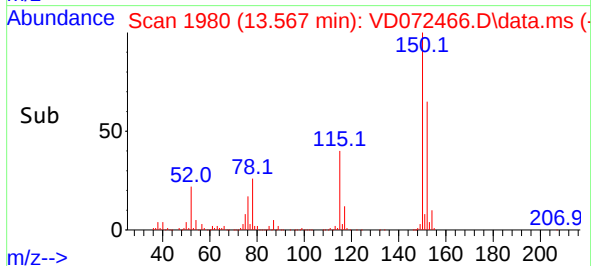


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17

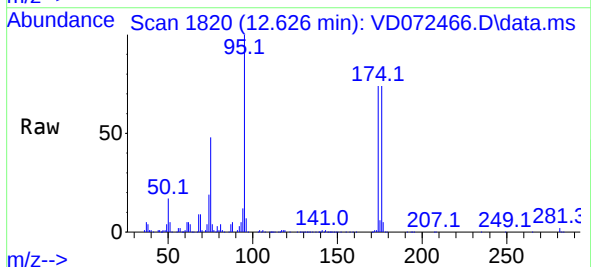
Instrument :
MSVOA_D
ClientSampleId :



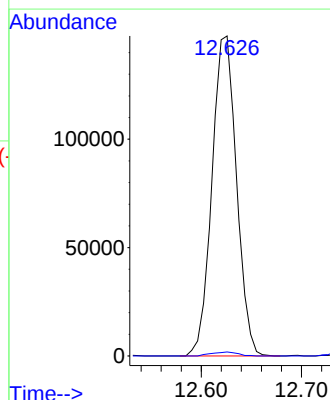
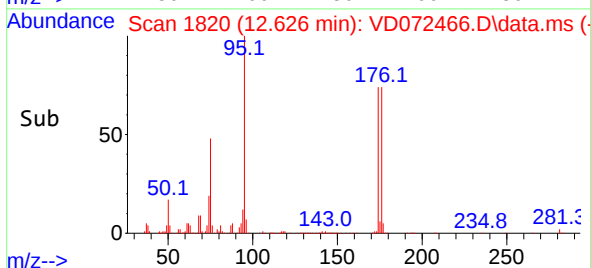
Tgt Ion:152 Resp: 526258
Ion Ratio Lower Upper
152 100
115 61.3 31.3 93.8
150 156.4 0.0 348.6

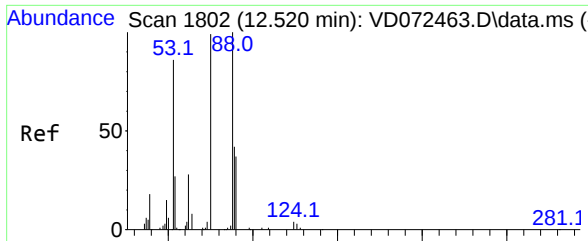


#76
1,2,3-Trichloropropane
Concen: 42.357 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD072466.D
Acq: 29 Mar 2022 16:17



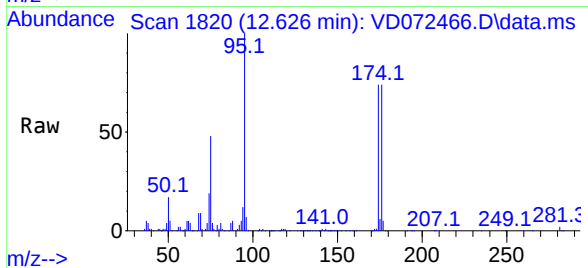
Tgt Ion: 75 Resp: 251483
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.010 ug/l
 RT: 12.626 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VD072466.D
 Acq: 29 Mar 2022 16:17

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 251483
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.5 129.7#
 89 0.0 33.9 50.9#

