

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062922\
 Data File : VY009382.D
 Acq On : 29 Jun 2022 19:00
 Operator : KP/MD
 Sample : N3488-02
 Misc : 4.55g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-9-8.5-10.5-20220623

Quant Time: Jun 30 05:13:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062822S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 17:35:34 2022
 Response via : Initial Calibration

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

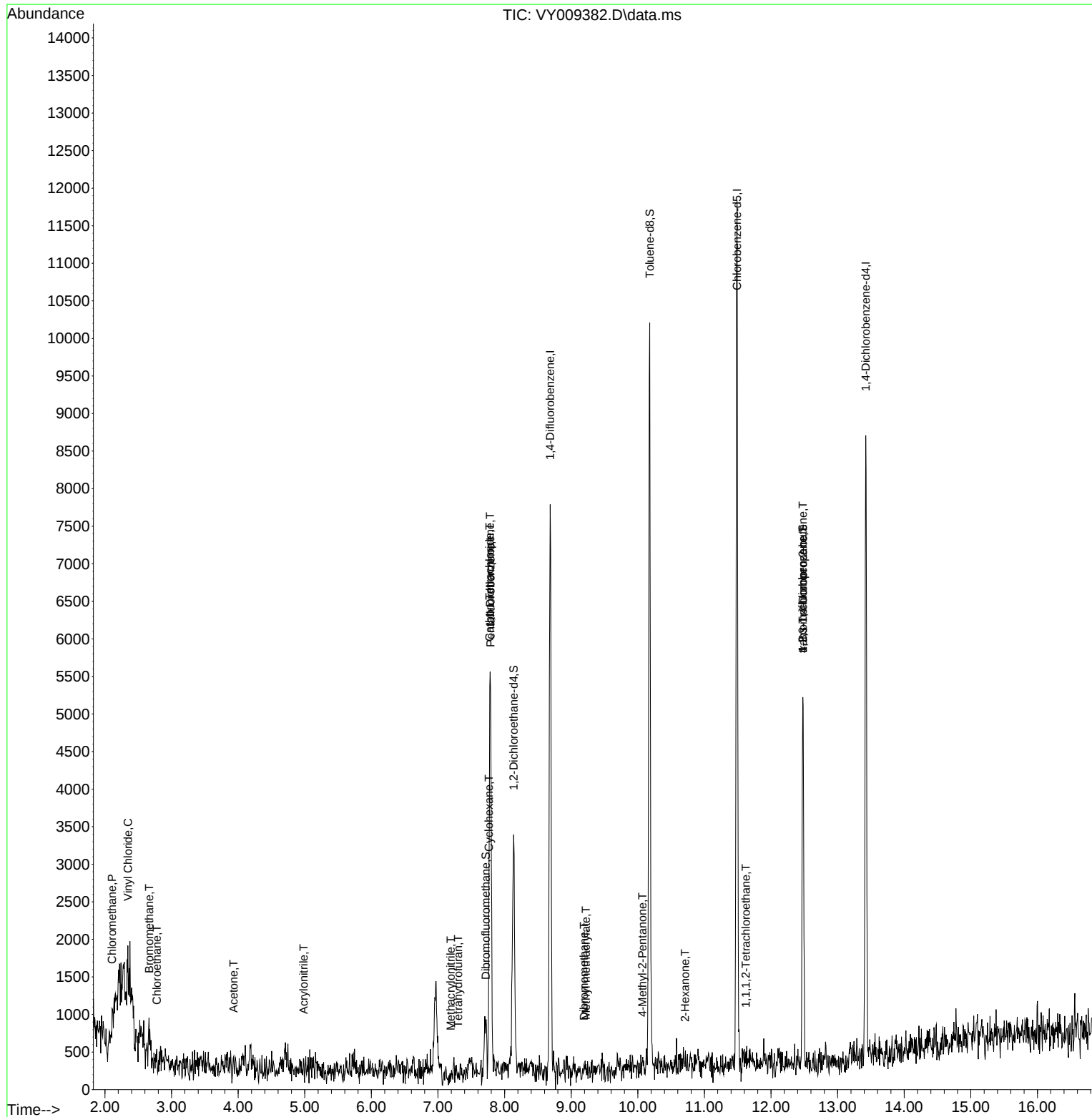
Internal Standards						
1) Pentafluorobenzene	7.789	168	4705	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	6430	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	6476	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	2369	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	2326	61.722	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 123.440%	
35) Dibromofluoromethane	7.716	113	647	18.282	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 36.560%#	
50) Toluene-d8	10.179	98	6470	59.630	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 119.260%	
62) 4-Bromofluorobenzene	12.477	95	1450	28.177	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 56.360%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	138	3.274	ug/l #	44
4) Vinyl Chloride	2.345	62	104	2.133	ug/l #	43
5) Bromomethane	2.662	94	131	4.187	ug/l #	69
6) Chloroethane	2.778	64	42	1.616	ug/l #	43
11) Tert butyl alcohol	4.911	59	45	Below Cal	#	77
15) Acrylonitrile	4.985	53	43	3.003	ug/l #	17
16) Acetone	3.930	43	137	11.069	ug/l #	47
18) Methyl Acetate	4.631	43	19	Below Cal	#	56
20) Methylene Chloride	4.698	84	179	Below Cal	#	35
29) Tetrahydrofuran	7.301	42	30	2.385	ug/l #	38
31) Cyclohexane	7.765	56	101	1.192	ug/l #	15
36) 1,1-Dichloropropene	7.783	75	318	5.139	ug/l #	42
38) Carbon Tetrachloride	7.777	117	527	8.148	ug/l #	11
41) Methacrylonitrile	7.191	41	42	2.026	ug/l #	1
46) Dibromomethane	9.191	93	29	1.104	ug/l #	3
48) Methyl methacrylate	9.222	41	40	1.377	ug/l #	47
51) 4-Methyl-2-Pentanone	10.069	43	58	1.670	ug/l #	40
59) 2-Hexanone	10.709	43	25	1.042	ug/l #	28
66) 1,1,1,2-Tetrachloroethane	11.624	131	57	1.121	ug/l #	9
76) 1,2,3-Trichloropropane	12.477	75	964	34.748	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	964	77.365	ug/l #	7

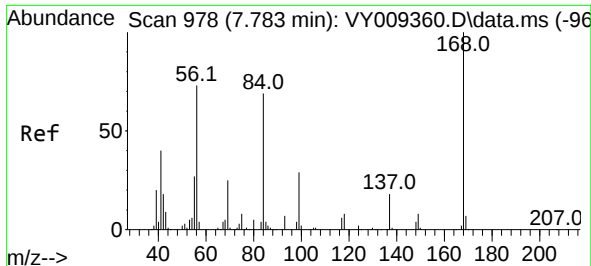
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SB-9-8.5-10.5-20220623

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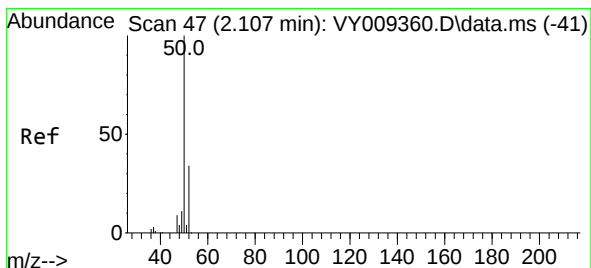
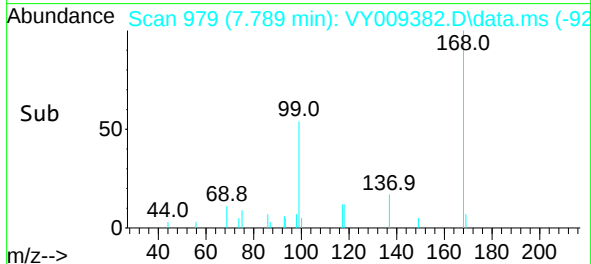
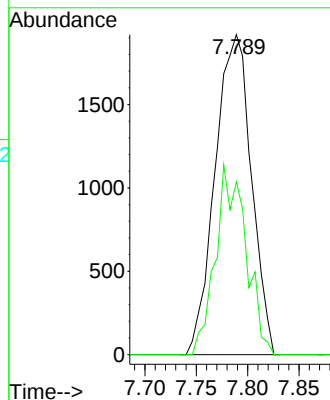
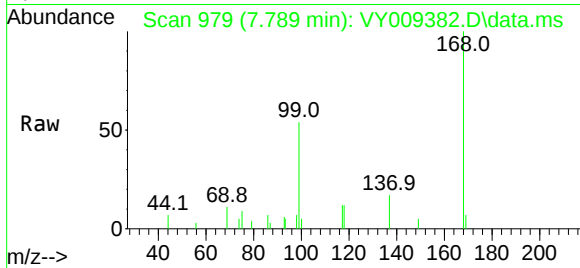




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

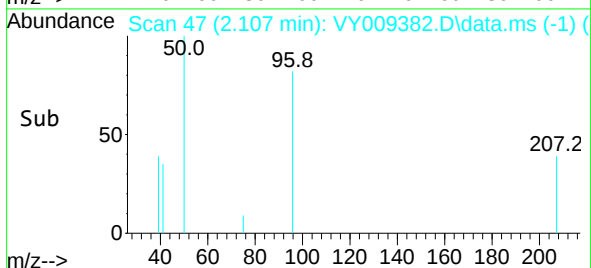
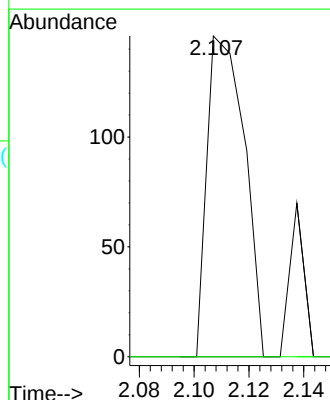
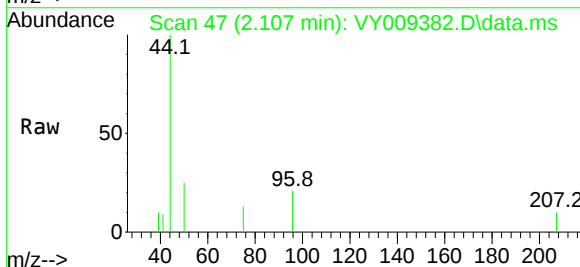
Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

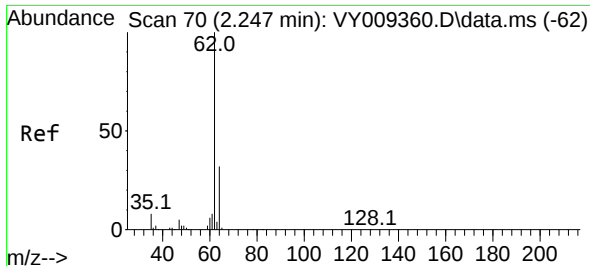
Tgt Ion:168 Resp: 4705
Ion Ratio Lower Upper
168 100
99 54.0 46.9 70.3



#3
Chloromethane
Concen: 3.274 ug/l
RT: 2.107 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion: 50 Resp: 138
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#





#4

Vinyl Chloride

Concen: 2.133 ug/l

RT: 2.345 min Scan# 80

Delta R.T. 0.098 min

Lab File: VY009382.D

Acq: 29 Jun 2022 19:00

Instrument :

MSVOA_Y

ClientSampleId :

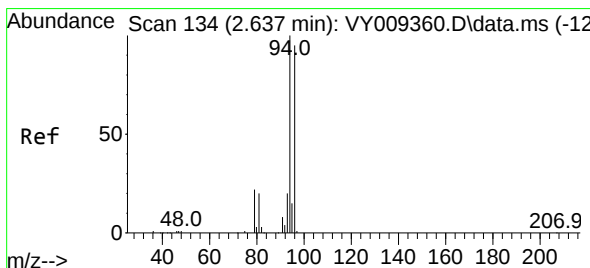
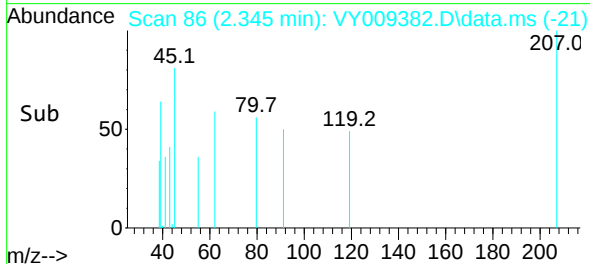
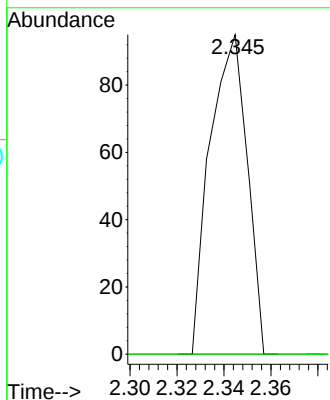
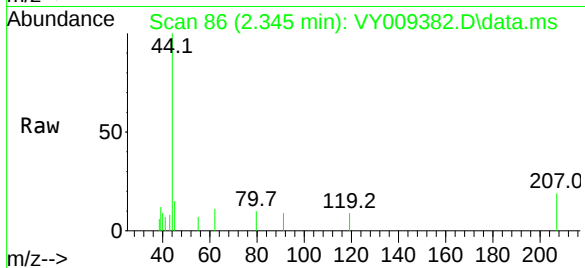
SB-9-8.5-10.5-20220623

Tgt Ion: 62 Resp: 104

Ion Ratio Lower Upper

62 100

64 0.0 25.0 37.6#



#5

Bromomethane

Concen: 4.187 ug/l

RT: 2.662 min Scan# 138

Delta R.T. 0.025 min

Lab File: VY009382.D

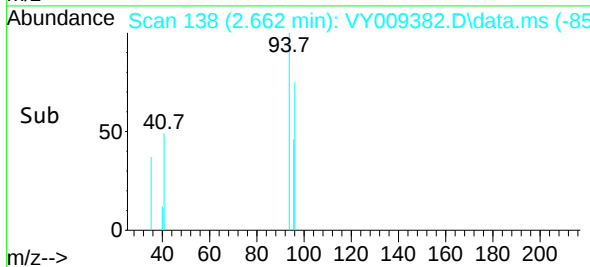
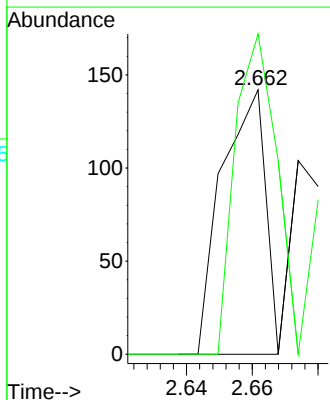
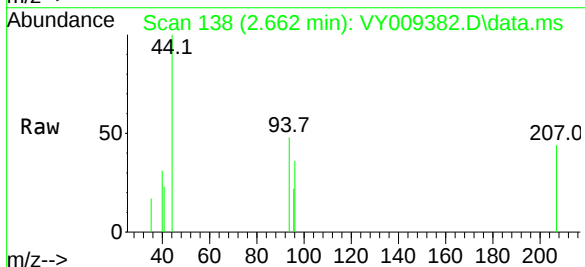
Acq: 29 Jun 2022 19:00

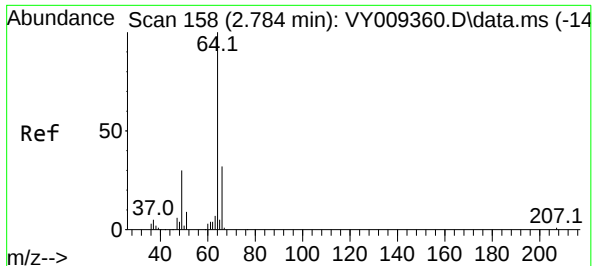
Tgt Ion: 94 Resp: 131

Ion Ratio Lower Upper

94 100

96 121.1 73.5 110.3#

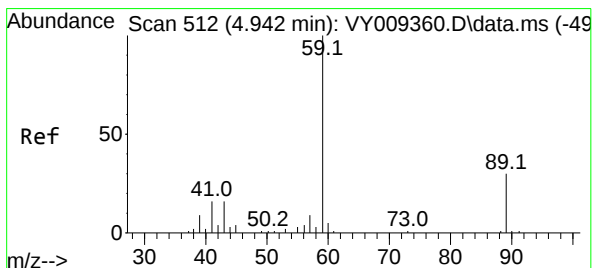
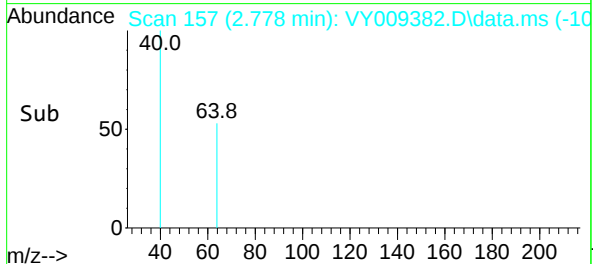
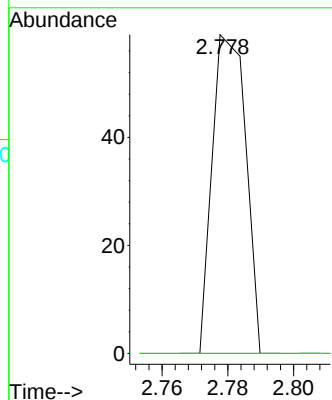
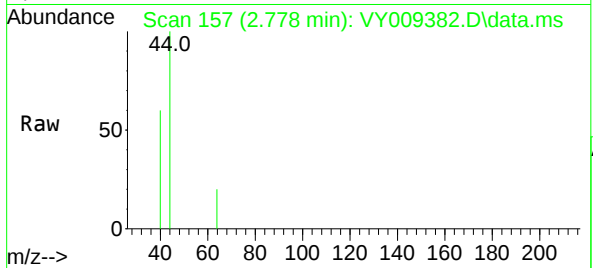




#6
Chloroethane
Concen: 1.616 ug/l
RT: 2.778 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

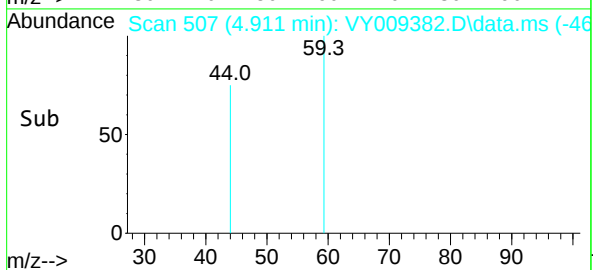
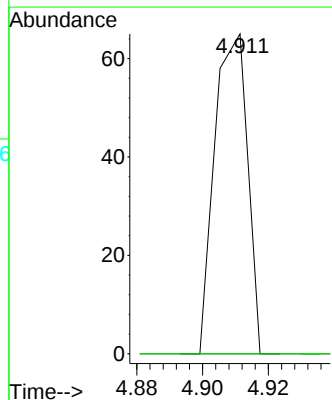
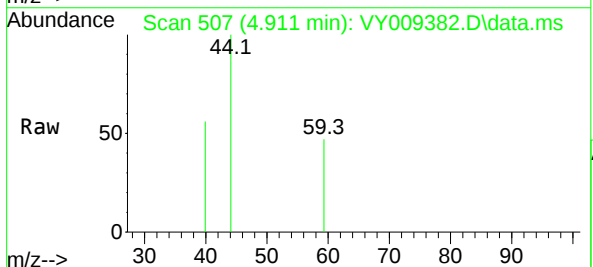
Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

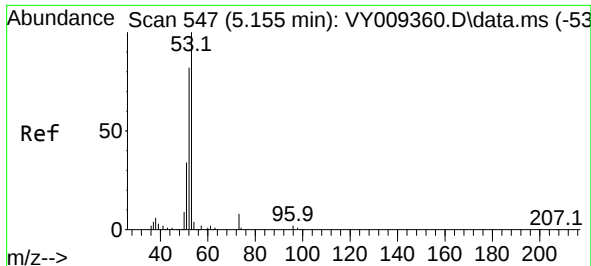
Tgt Ion: 64 Resp: 42
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.0#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.911 min Scan# 507
Delta R.T. -0.031 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion: 59 Resp: 45
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#

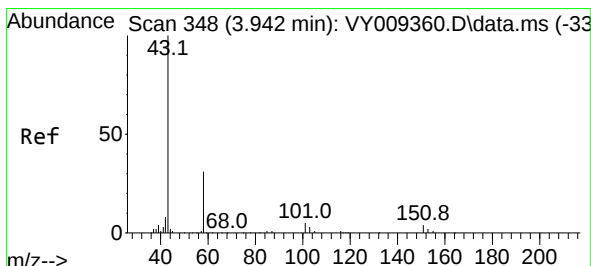
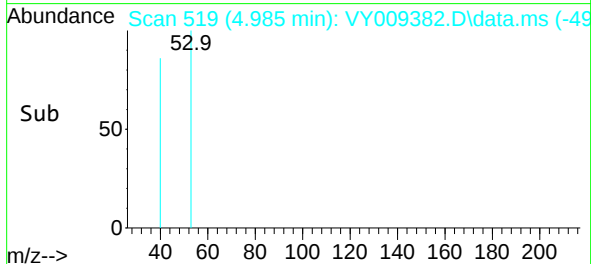
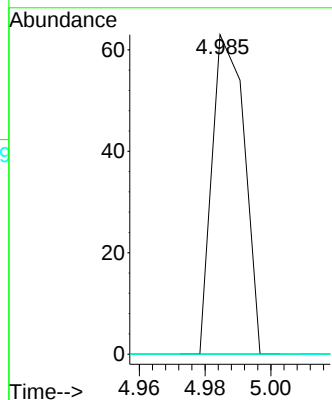
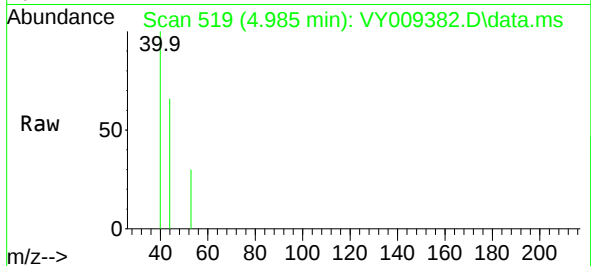




#15
Acrylonitrile
Concen: 3.003 ug/l
RT: 4.985 min Scan# 51
Delta R.T. -0.170 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

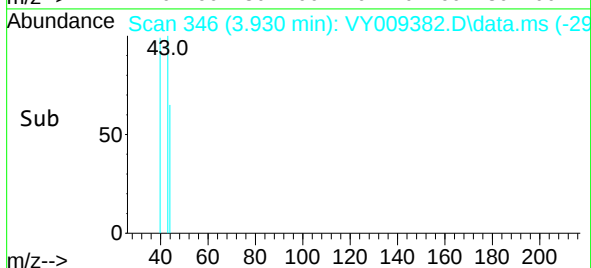
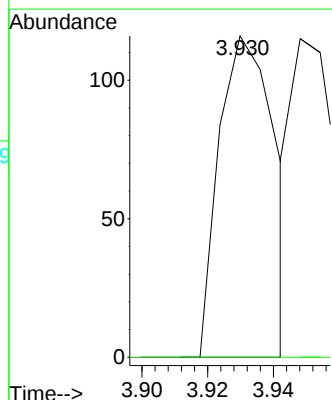
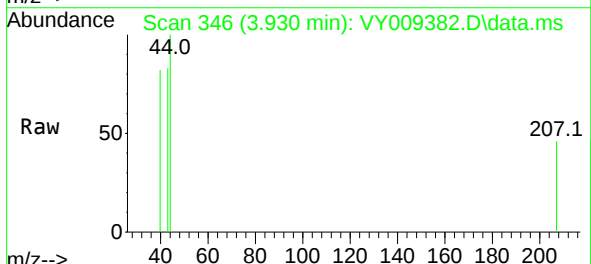
Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

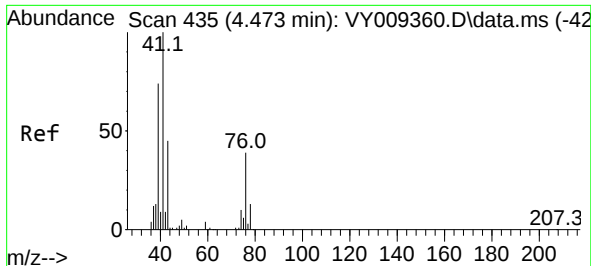
Tgt Ion: 53 Resp: 43
Ion Ratio Lower Upper
53 100
52 0.0 67.0 100.4#
51 0.0 29.8 44.6#



#16
Acetone
Concen: 11.069 ug/l
RT: 3.930 min Scan# 346
Delta R.T. -0.012 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion: 43 Resp: 137
Ion Ratio Lower Upper
43 100
58 0.0 22.0 33.0#

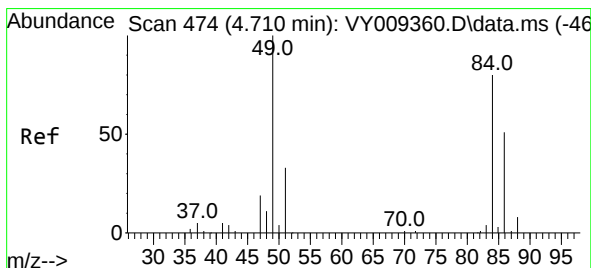
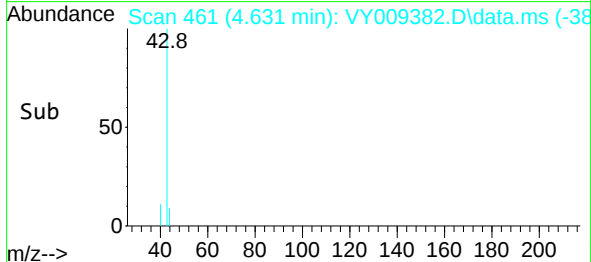
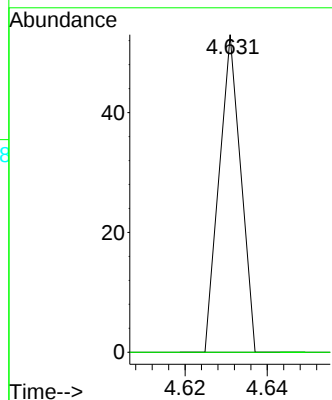
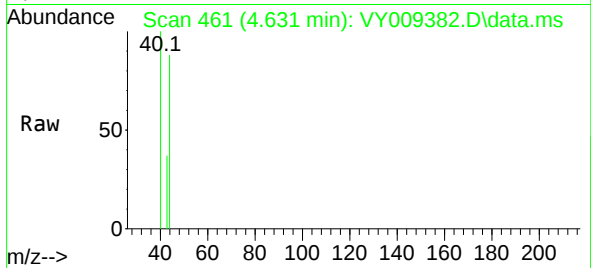




#18
Methyl Acetate
Concen: Below Cal
RT: 4.631 min Scan# 41
Delta R.T. 0.158 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

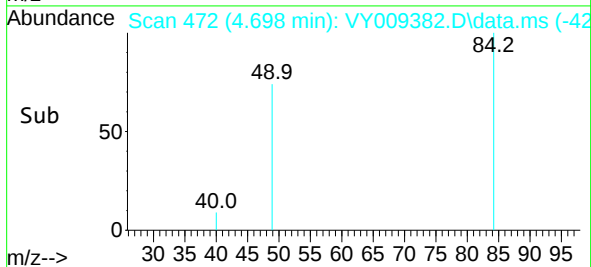
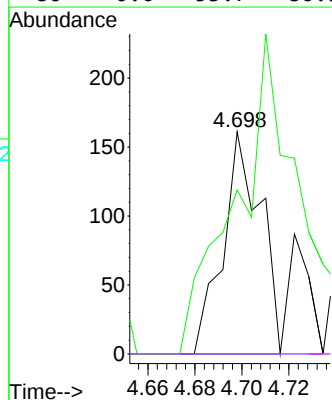
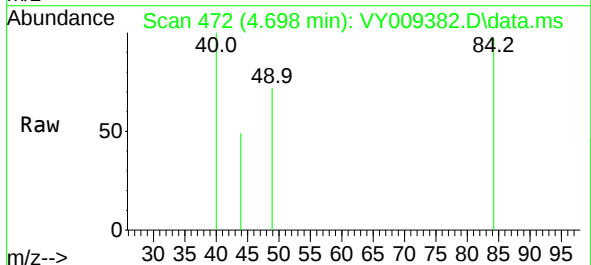
Instrument :
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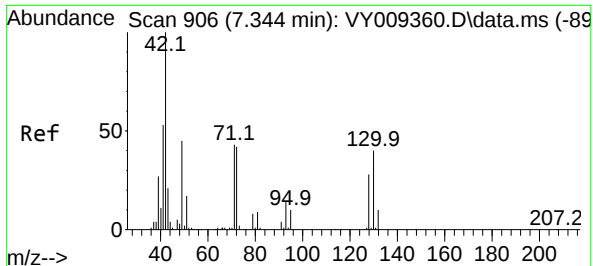
Tgt Ion: 43 Resp: 19
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.698 min Scan# 472
Delta R.T. -0.012 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion: 84 Resp: 179
Ion Ratio Lower Upper
84 100
49 73.9 114.4 171.6#
51 0.0 35.3 52.9#
86 0.0 53.7 80.5#





#29

Tetrahydrofuran

Concen: 2.385 ug/l

RT: 7.301 min Scan# 89

Delta R.T. -0.043 min

Lab File: VY009382.D

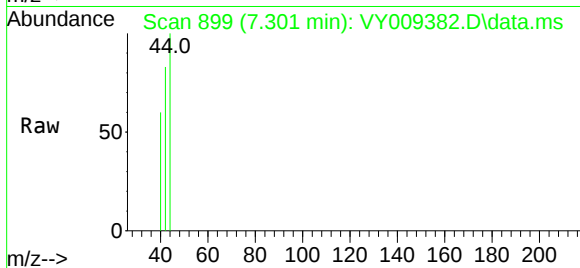
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Instrument :

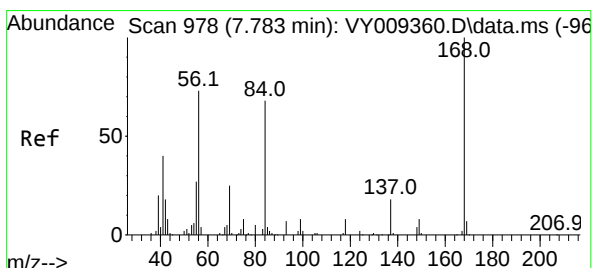
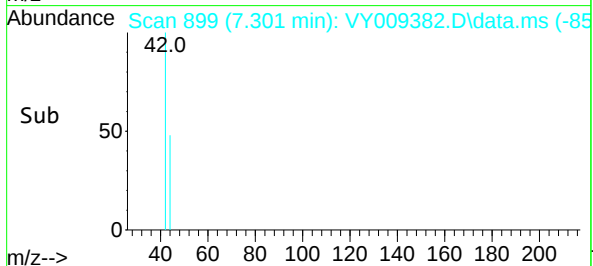
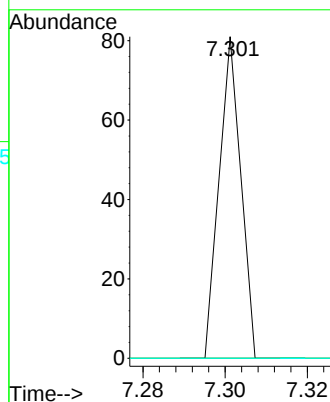
MSVOA_Y

ClientSampleId :

SB-9-8.5-10.5-20220623



Tgt Ion: 42	Resp: 30
Ion Ratio	Lower Upper
42	100
72	0.0 30.3 45.5#
71	0.0 29.0 43.4#



#31

Cyclohexane

Concen: 1.192 ug/l

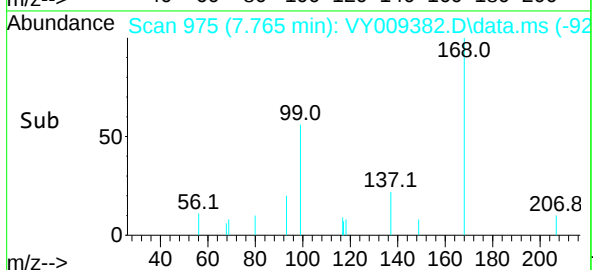
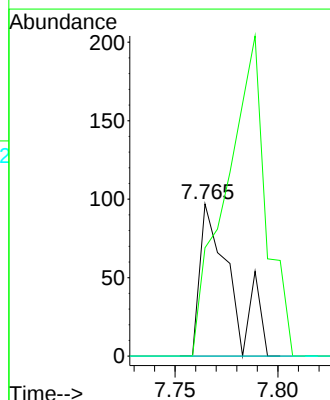
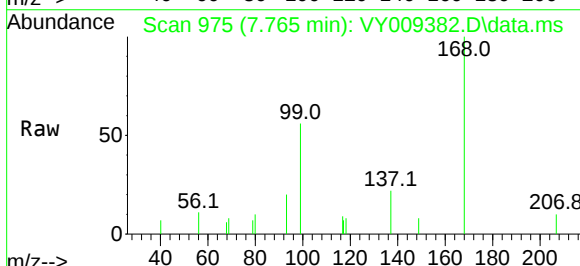
RT: 7.765 min Scan# 975

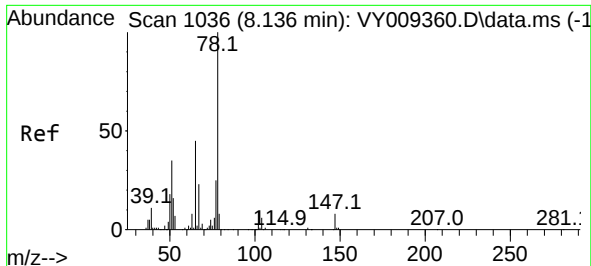
Delta R.T. -0.018 min

Lab File: VY009382.D

Acq: 29 Jun 2022 19:00

Tgt Ion: 56	Resp: 101
Ion Ratio	Lower Upper
56	100
69	71.1 26.7 40.1#
84	0.0 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 61.722 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY009382.D

Acq: 29 Jun 2022 19:00

Instrument :

MSVOA_Y

ClientSampleId :

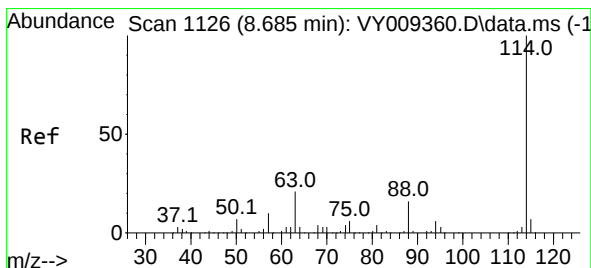
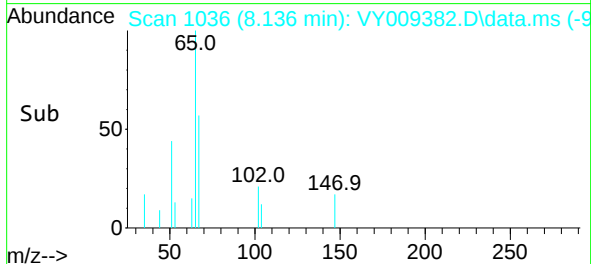
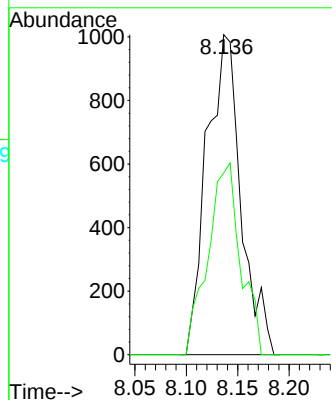
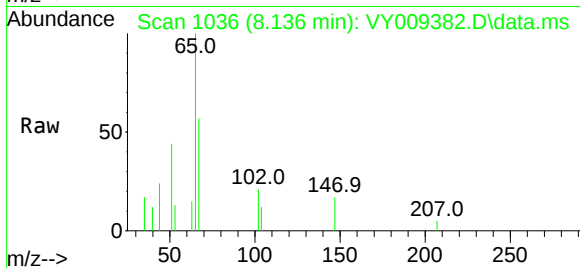
SB-9-8.5-10.5-20220623

Tgt Ion: 65 Resp: 2326

Ion Ratio Lower Upper

65 100

67 57.5 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY009382.D

Acq: 29 Jun 2022 19:00

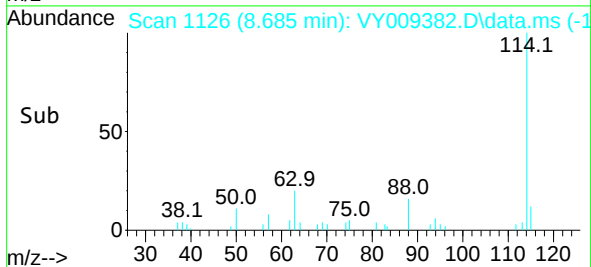
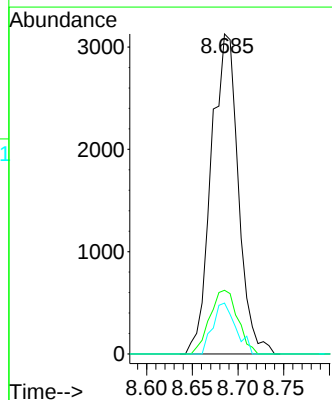
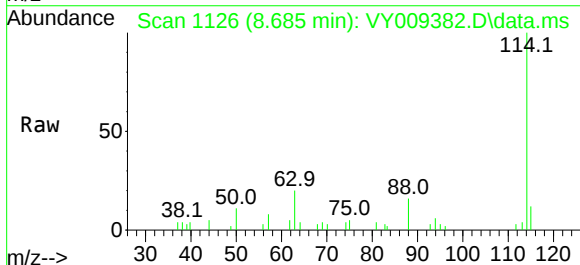
Tgt Ion: 114 Resp: 6430

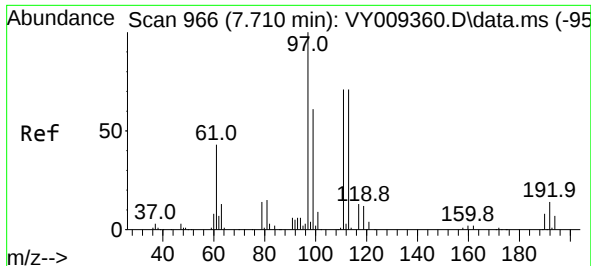
Ion Ratio Lower Upper

114 100

63 19.9 0.0 43.2

88 15.9 0.0 31.8

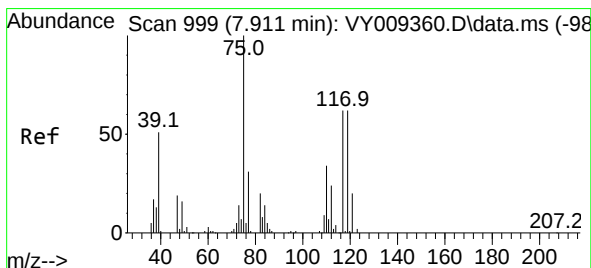
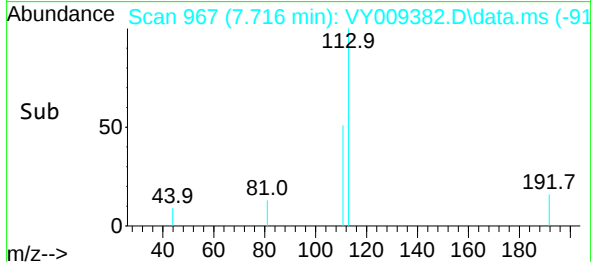
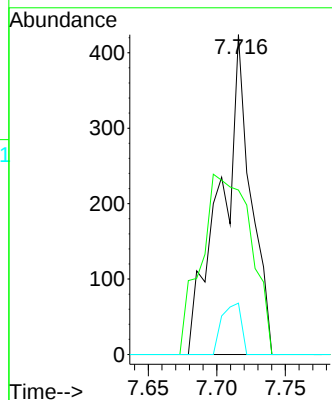
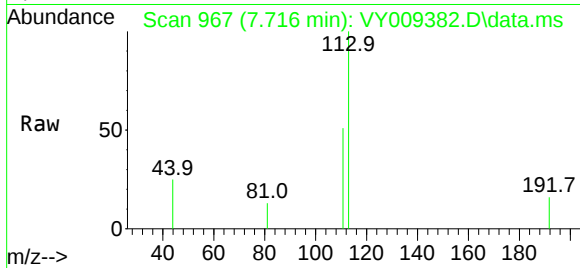




#35
Dibromofluoromethane
Concen: 18.282 ug/l
RT: 7.716 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

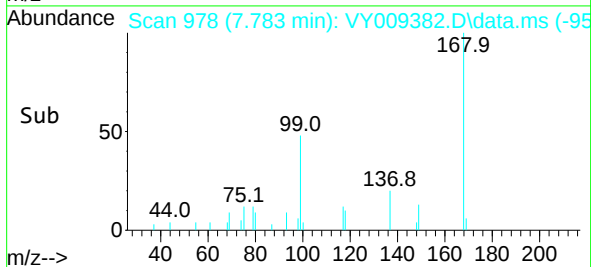
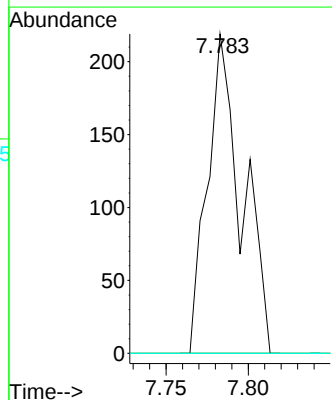
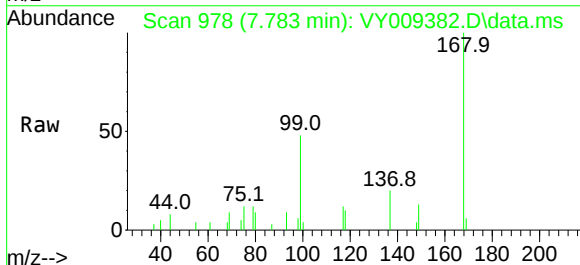
Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

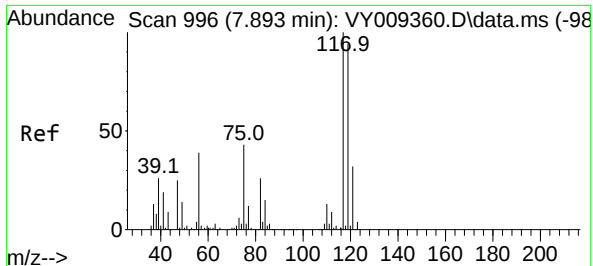
Tgt Ion:113 Resp: 647
Ion Ratio Lower Upper
113 100
111 93.4 82.6 124.0
192 10.4 17.6 26.4#



#36
1,1-Dichloropropene
Concen: 5.139 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

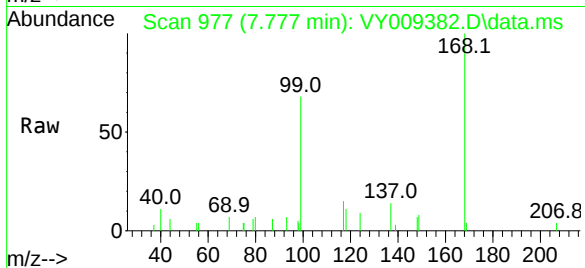
Tgt Ion: 75 Resp: 318
Ion Ratio Lower Upper
75 100
110 0.0 17.1 51.2#
77 0.0 24.4 36.6#



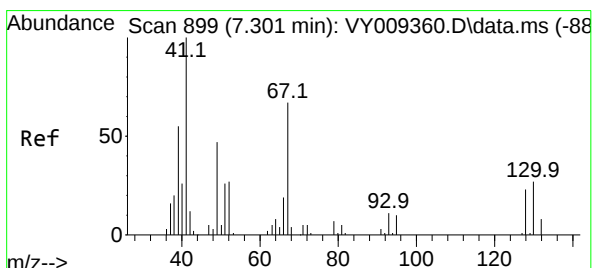
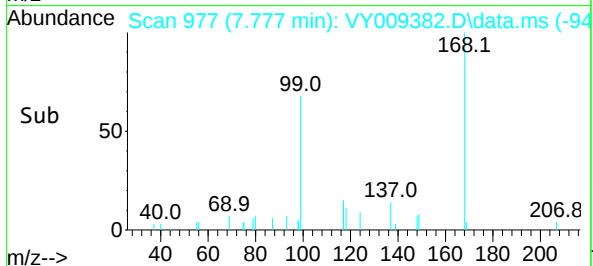
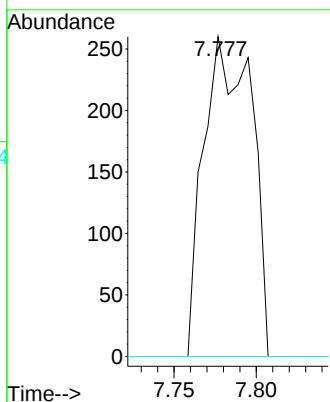


#38
Carbon Tetrachloride
Concen: 8.148 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

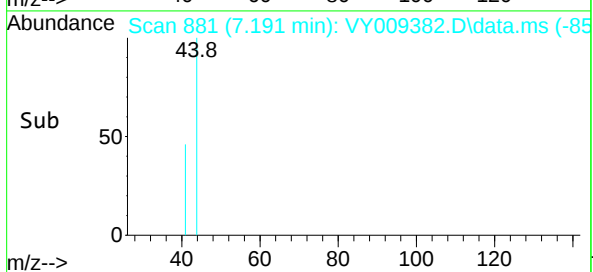
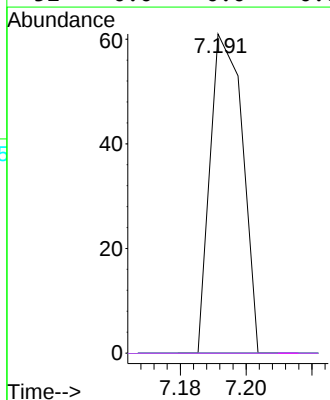
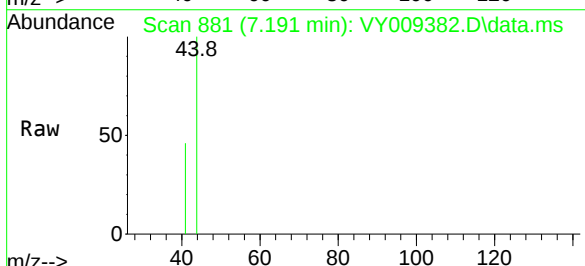


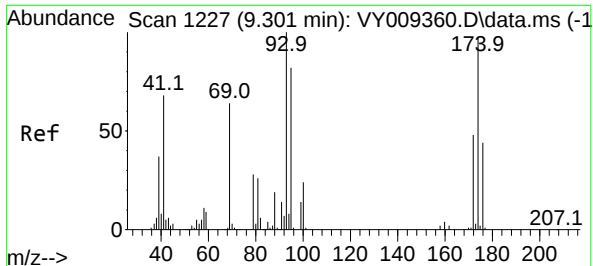
Tgt Ion:117 Resp: 527
Ion Ratio Lower Upper
117 100
119 0.0 77.9 116.9#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 2.026 ug/l
RT: 7.191 min Scan# 881
Delta R.T. -0.110 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

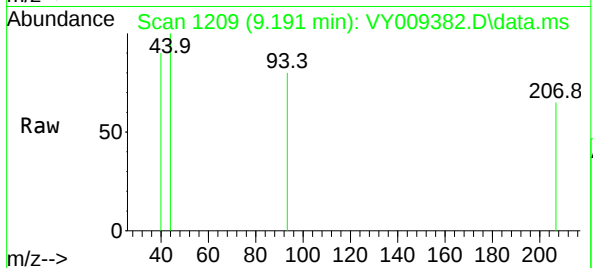
Tgt Ion: 41 Resp: 42
Ion Ratio Lower Upper
41 100
39 0.0 92.9 139.3#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



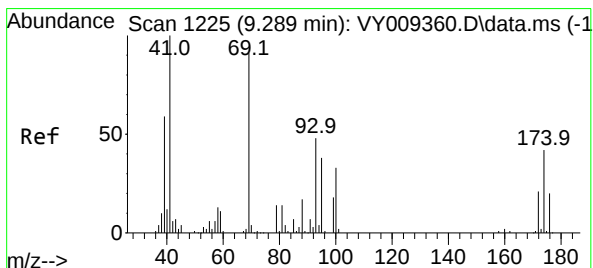
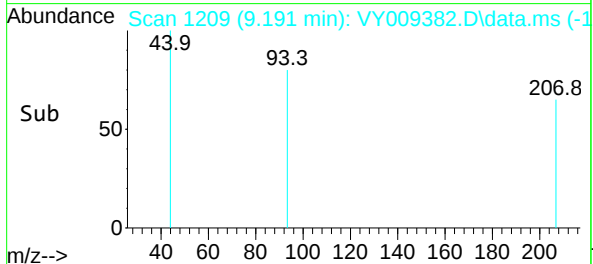
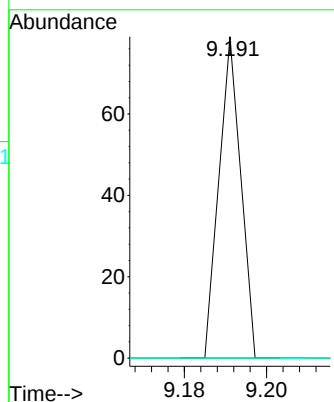


#46
Dibromomethane
Concen: 1.104 ug/l
RT: 9.191 min Scan# 1114
Delta R.T. -0.110 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

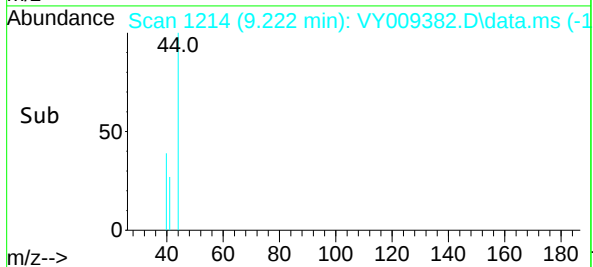
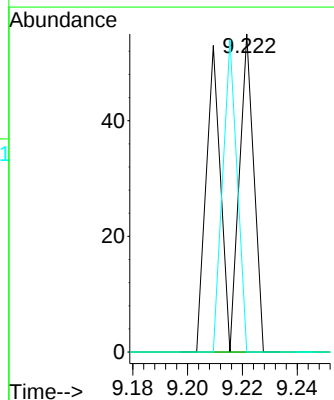
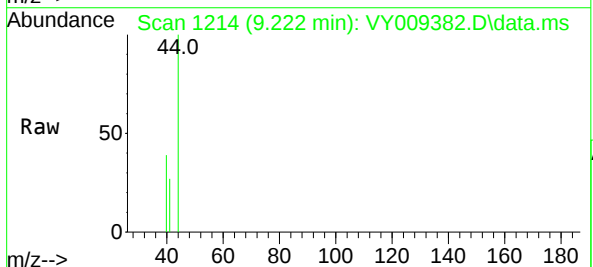


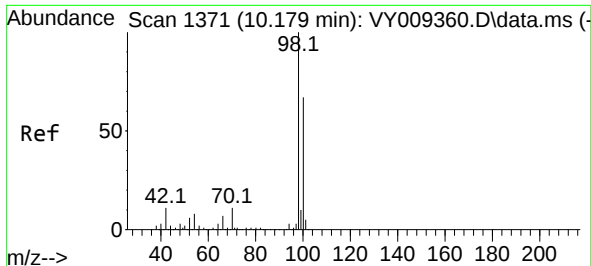
Tgt Ion: 93 Resp: 29
Ion Ratio Lower Upper
93 100
95 0.0 64.3 96.5#
174 0.0 83.4 125.0#



#48
Methyl methacrylate
Concen: 1.377 ug/l
RT: 9.222 min Scan# 1214
Delta R.T. -0.067 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion: 41 Resp: 40
Ion Ratio Lower Upper
41 100
69 0.0 58.2 87.2#
39 50.0 47.4 71.0

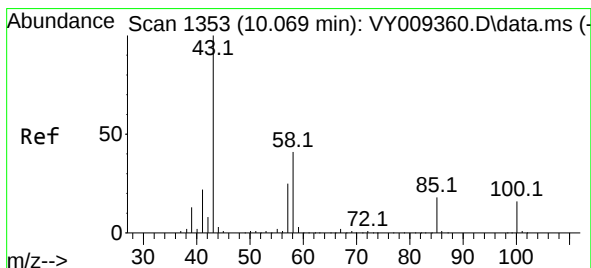
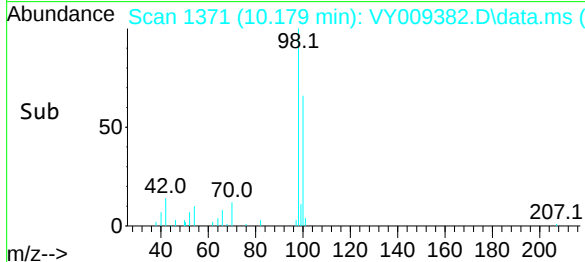
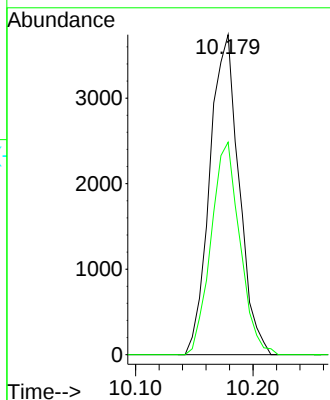
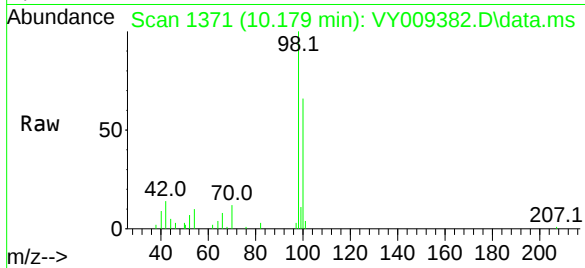




#50
Toluene-d8
Concen: 59.630 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

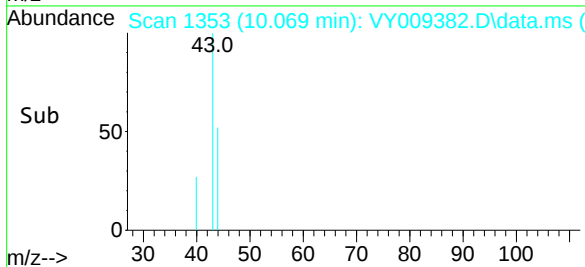
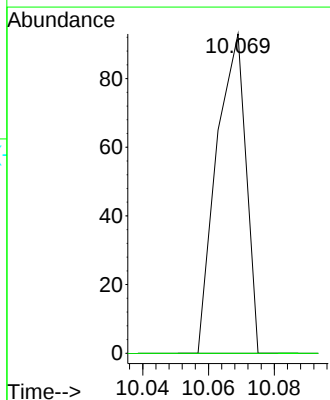
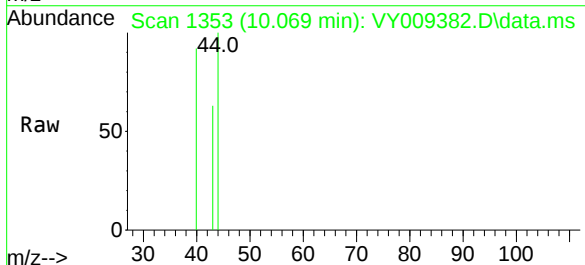
Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

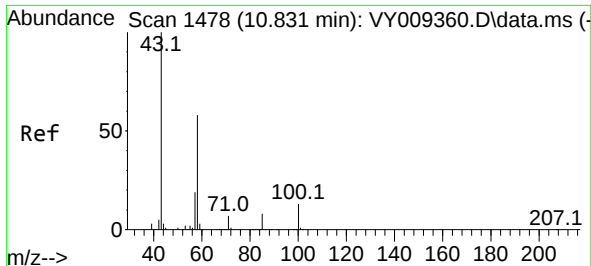
Tgt Ion: 98 Resp: 6470
Ion Ratio Lower Upper
98 100
100 65.6 50.2 75.2



#51
4-Methyl-2-Pentanone
Concen: 1.670 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. -0.000 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
58 0.0 28.1 42.1#

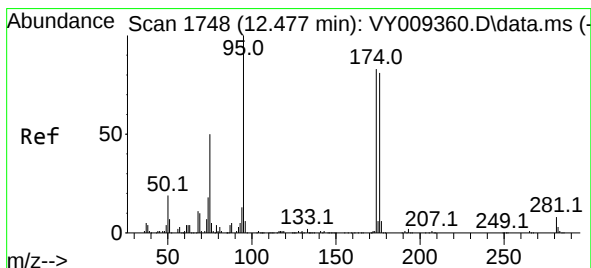
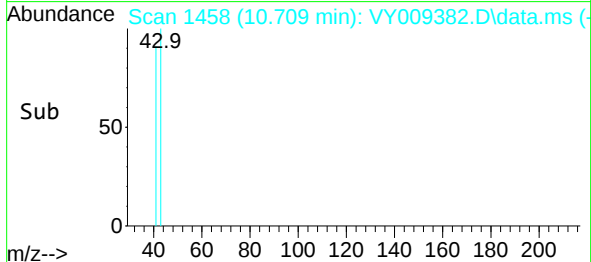
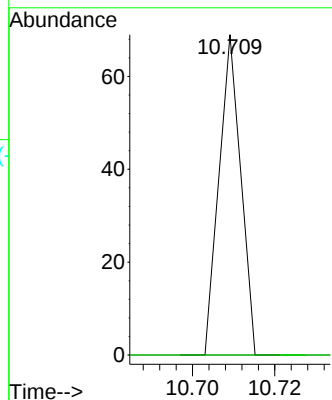
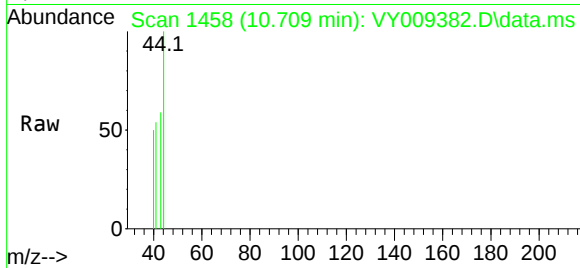




#59
2-Hexanone
Concen: 1.042 ug/l
RT: 10.709 min Scan# 1478
Delta R.T. -0.122 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

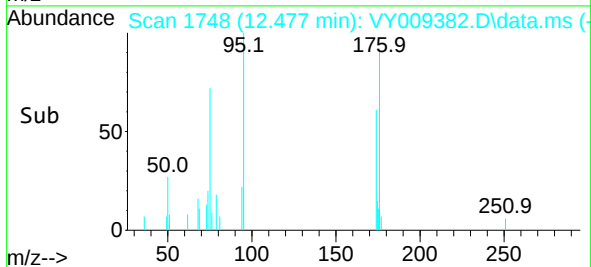
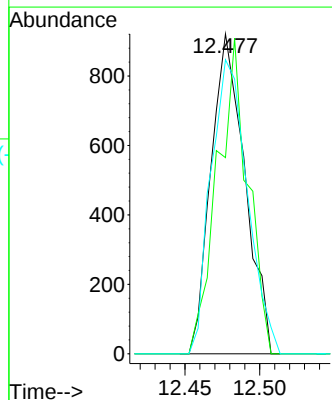
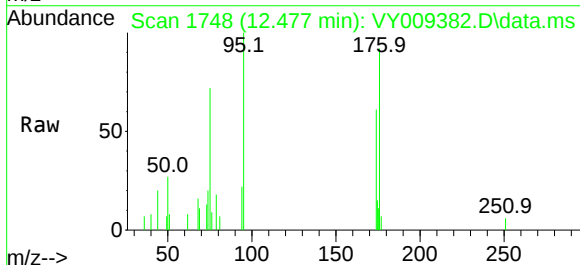
Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

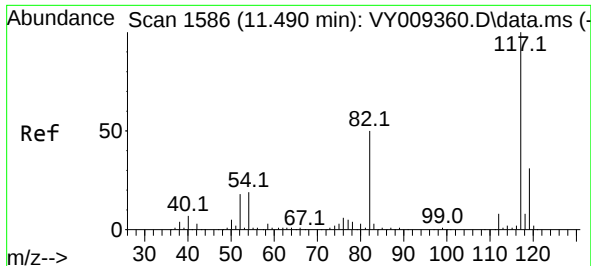
Tgt Ion: 43 Resp: 25
Ion Ratio Lower Upper
43 100
58 0.0 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 28.177 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion: 95 Resp: 1450
Ion Ratio Lower Upper
95 100
174 89.0 0.0 177.0
176 99.2 0.0 175.8

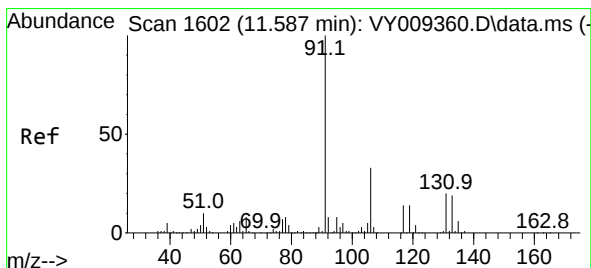
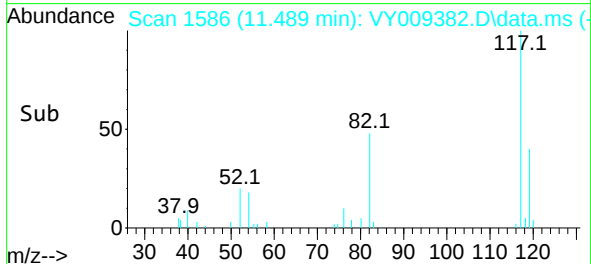
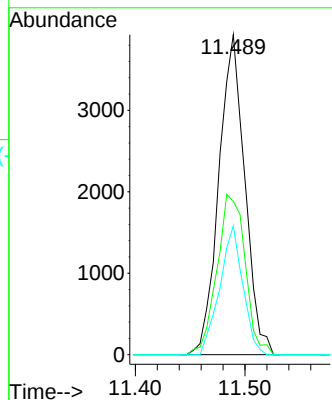
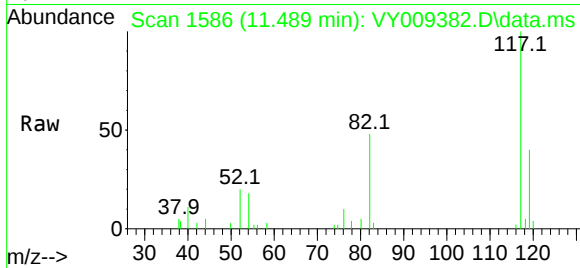




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. -0.001 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

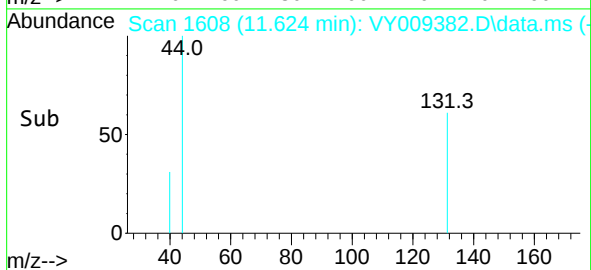
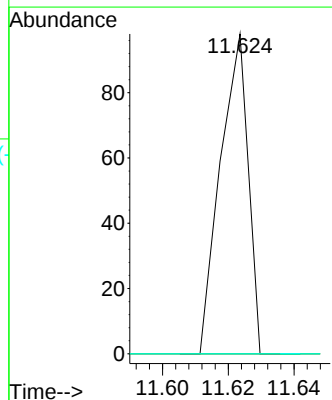
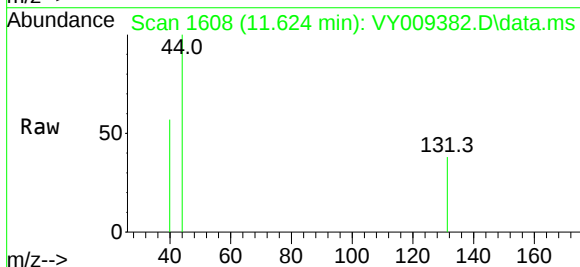
Instrument :
MSVOA_Y
ClientSampleId :
SB-9-8.5-10.5-20220623

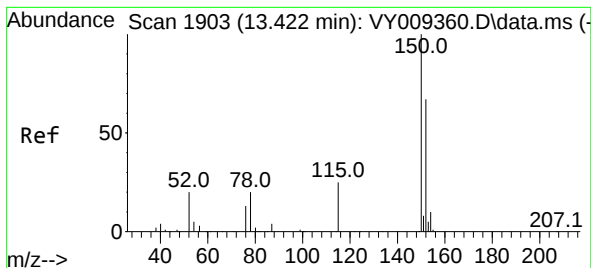
Tgt Ion:117 Resp: 6476
Ion Ratio Lower Upper
117 100
82 47.9 43.0 64.4
119 40.3 25.4 38.0#



#66
1,1,1,2-Tetrachloroethane
Concen: 1.121 ug/l
RT: 11.624 min Scan# 1608
Delta R.T. 0.037 min
Lab File: VY009382.D
Acq: 29 Jun 2022 19:00

Tgt Ion:131 Resp: 57
Ion Ratio Lower Upper
131 100
133 0.0 47.9 143.6#
119 0.0 30.8 92.3#

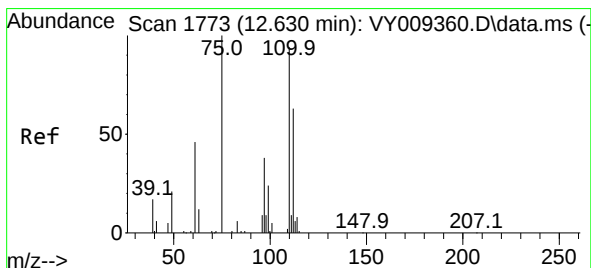
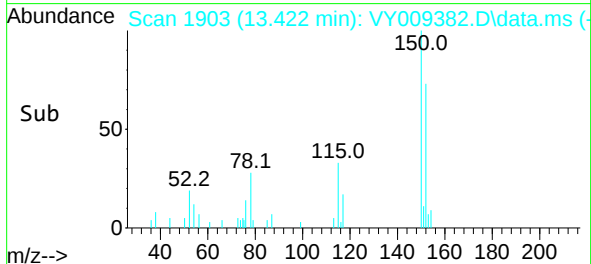
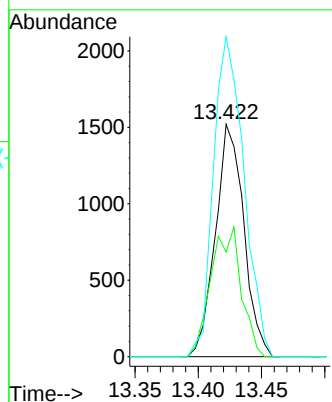
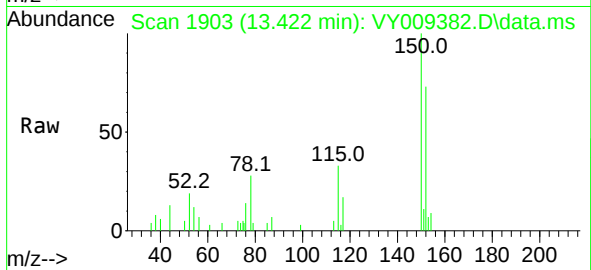




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.422 min Scan# 1903
 Delta R.T. 0.000 min
 Lab File: VY009382.D
 Acq: 29 Jun 2022 19:00

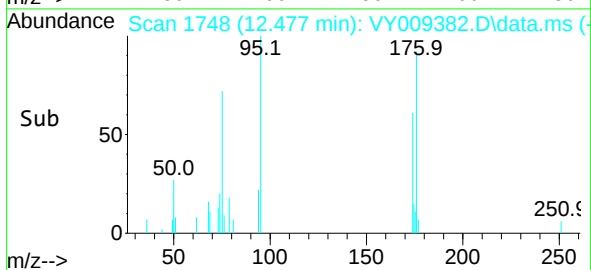
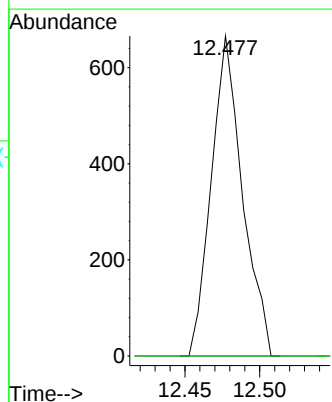
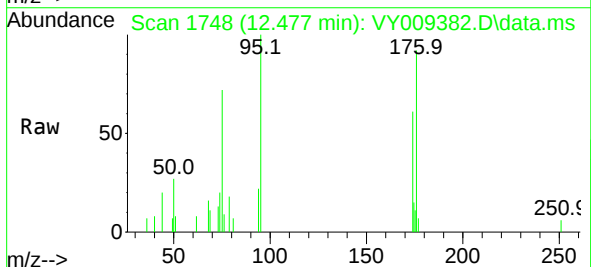
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-9-8.5-10.5-20220623

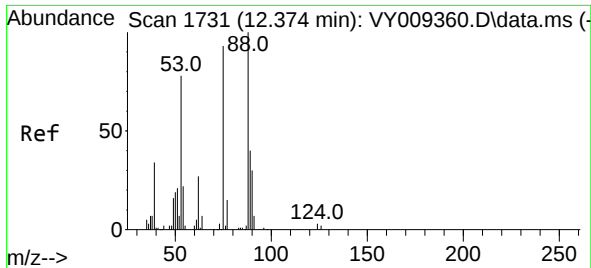
Tgt Ion:152 Resp: 2369
 Ion Ratio Lower Upper
 152 100
 115 59.3 28.2 84.7
 150 148.2 0.0 347.6



#76
 1,2,3-Trichloropropane
 Concen: 34.748 ug/l
 RT: 12.477 min Scan# 1748
 Delta R.T. -0.153 min
 Lab File: VY009382.D
 Acq: 29 Jun 2022 19:00

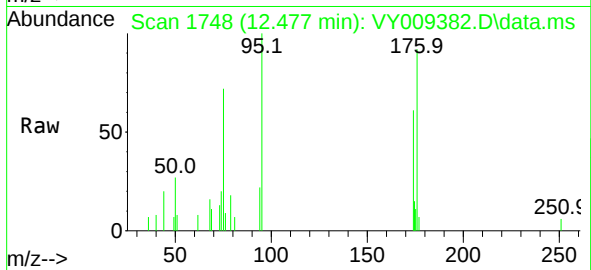
Tgt Ion: 75 Resp: 964
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.365 ug/l
 RT: 12.477 min Scan# 11
 Delta R.T. 0.103 min
 Lab File: VY009382.D
 Acq: 29 Jun 2022 19:00

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-9-8.5-10.5-20220623



Tgt Ion:	75	Resp:	964
Ion	Ratio	Lower	Upper
75	100		
53	0.0	85.3	127.9#
89	0.0	37.0	55.4#

