

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091422\
 Data File : VY010494.D
 Acq On : 14 Sep 2022 19:07
 Operator : KP/MD
 Sample : N4588-02
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 40152

Quant Time: Sep 15 01:11:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090922S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 09 17:08:30 2022
 Response via : Initial Calibration

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

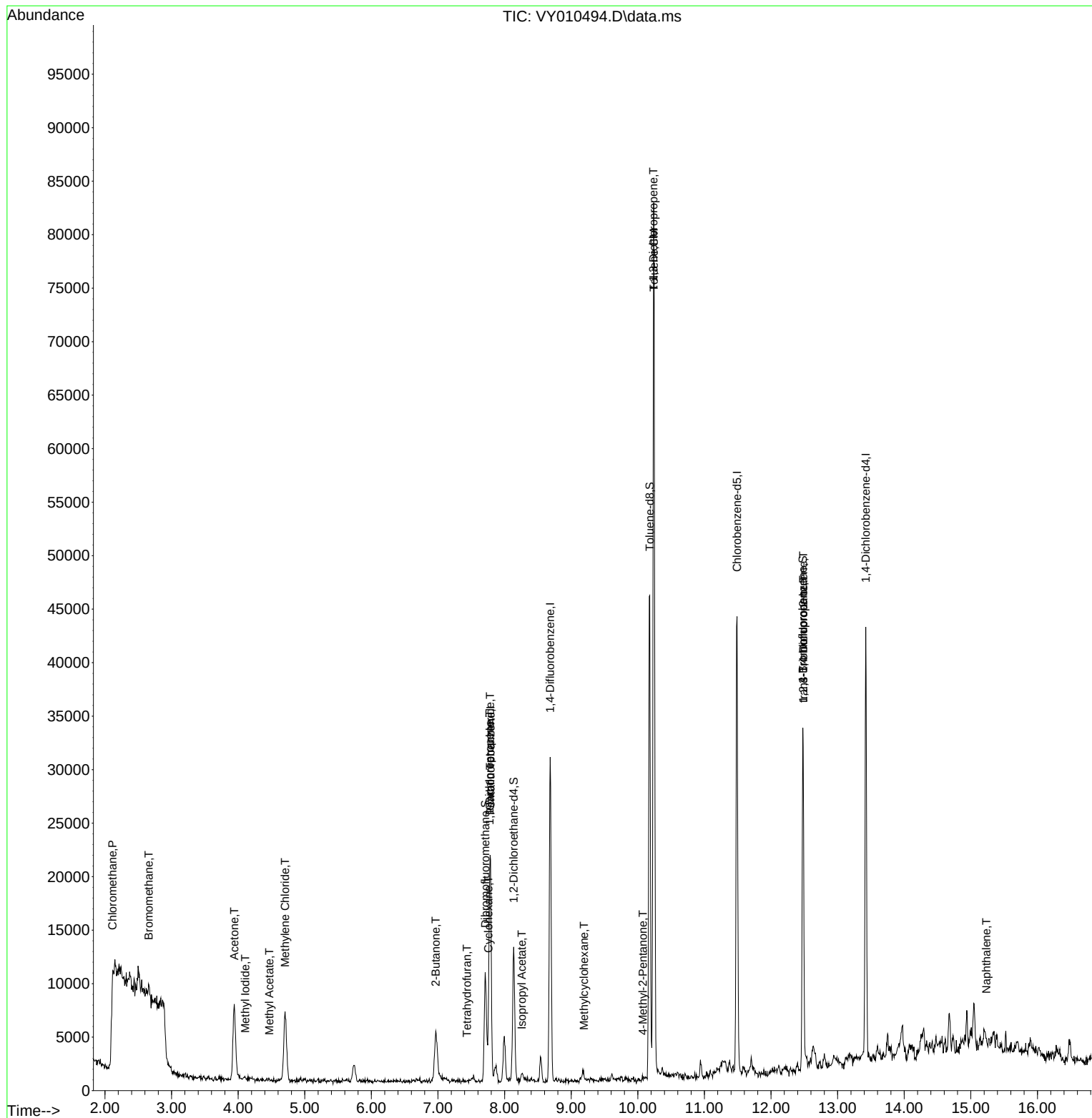
Internal Standards						
1) Pentafluorobenzene	7.789	168	16587	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	26074	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	23917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	10348	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	9451	56.573	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.140%	
35) Dibromofluoromethane	7.710	113	7164	38.687	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 77.380%	
50) Toluene-d8	10.179	98	30792	51.307	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 102.620%	
62) 4-Bromofluorobenzene	12.477	95	9727	39.610	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 79.220%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.113	85	199	Below Cal	#	43
3) Chloromethane	2.113	50	326	1.749	ug/l #	80
5) Bromomethane	2.656	94	515	3.197	ug/l #	40
10) Methyl Iodide	4.107	142	419	1.986	ug/l #	41
11) Tert butyl alcohol	4.936	59	157	Below Cal	#	88
16) Acetone	3.942	43	12917	336.922	ug/l #	82
18) Methyl Acetate	4.466	43	142	1.204	ug/l #	56
20) Methylene Chloride	4.704	84	4663	21.154	ug/l #	74
25) 2-Butanone	6.966	43	274	4.497	ug/l #	54
29) Tetrahydrofuran	7.435	42	42	1.105	ug/l #	38
31) Cyclohexane	7.758	56	581	2.059	ug/l #	57
36) 1,1-Dichloropropene	7.777	75	1429	5.637	ug/l #	43
38) Carbon Tetrachloride	7.783	117	1524	5.403	ug/l #	20
39) Methylcyclohexane	9.191	83	331	1.047	ug/l #	45
43) Isopropyl Acetate	8.258	43	473	1.939	ug/l #	56
51) 4-Methyl-2-Pentanone	10.075	43	183	1.368	ug/l #	40
52) Toluene	10.240	92	35020	73.331	ug/l	96
53) t-1,3-Dichloropropene	10.234	75	418	1.593	ug/l #	1
76) 1,2,3-Trichloropropane	12.483	75	4911	43.001	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	4911	95.477	ug/l #	8
95) Naphthalene	15.233	128	947	2.272	ug/l #	84

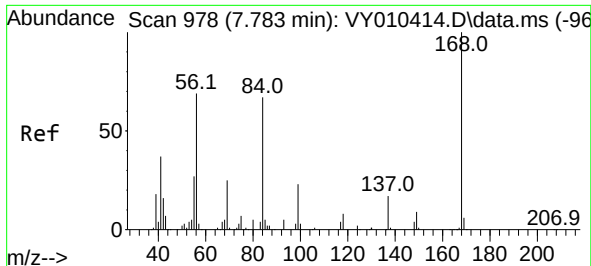
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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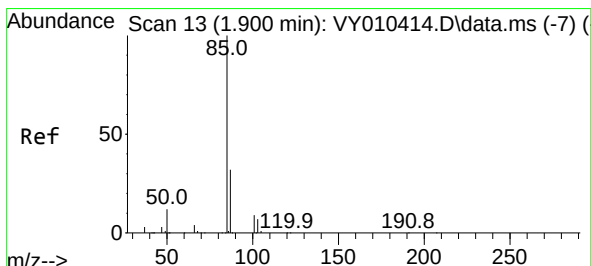
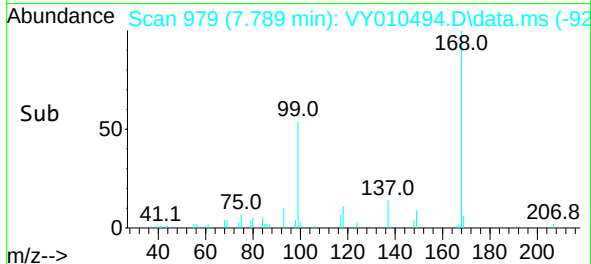
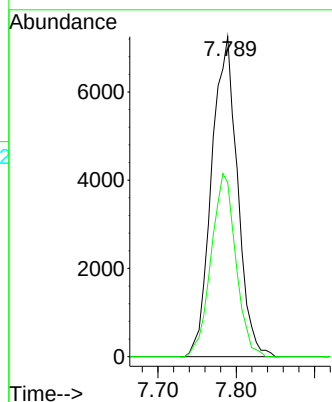
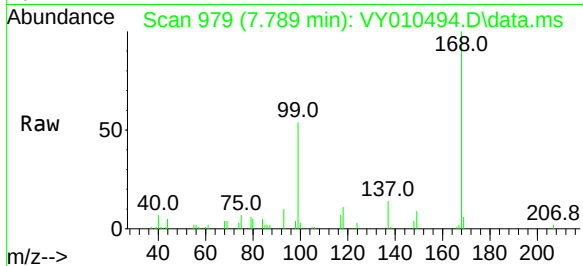




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

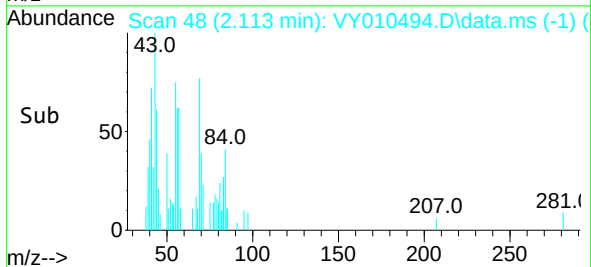
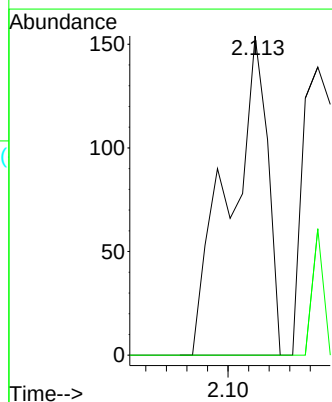
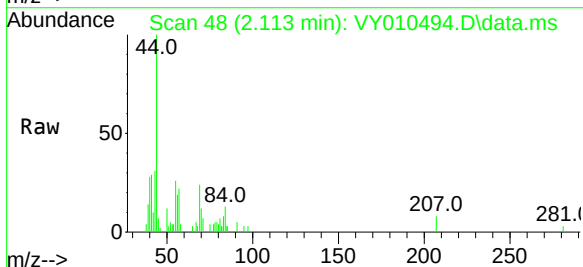
Instrument :
MSVOA_Y
ClientSampleId :
40152

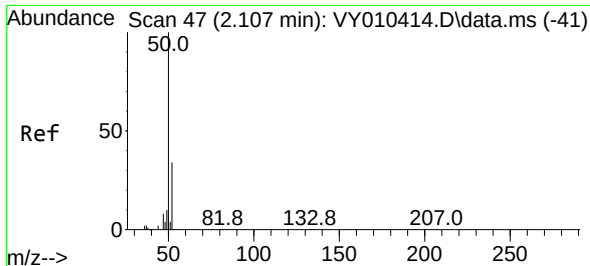
Tgt Ion:168 Resp: 16587
Ion Ratio Lower Upper
168 100
99 54.4 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. 0.213 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 85 Resp: 199
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

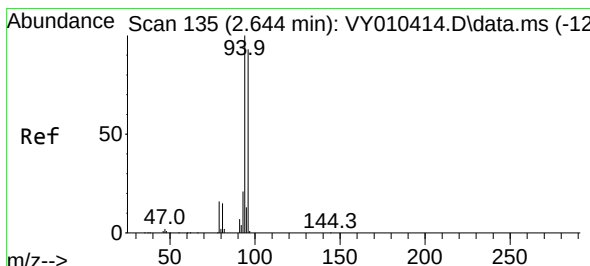
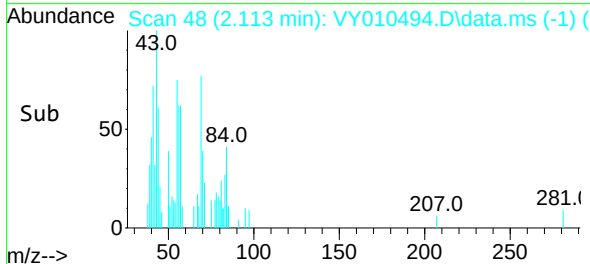
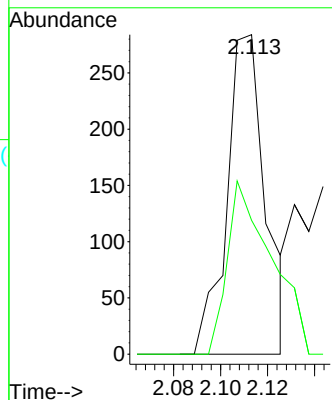
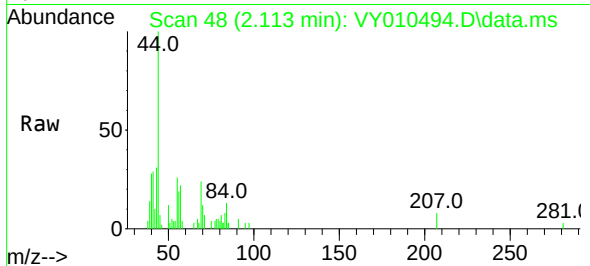




#3
Chloromethane
Concen: 1.749 ug/l
RT: 2.113 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

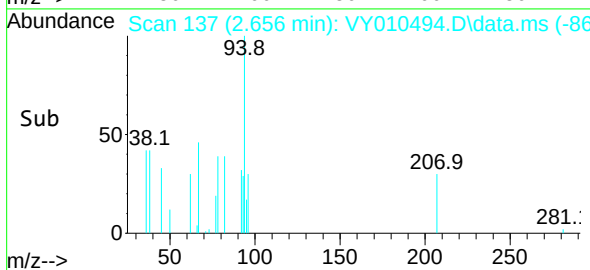
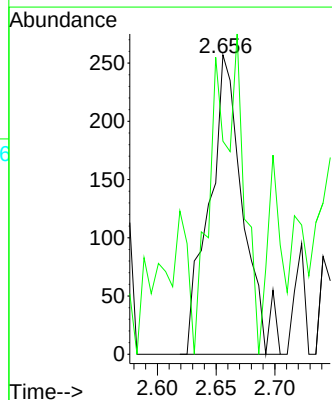
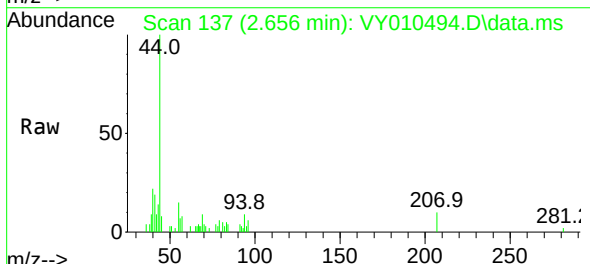
Instrument :
MSVOA_Y
ClientSampleId :
40152

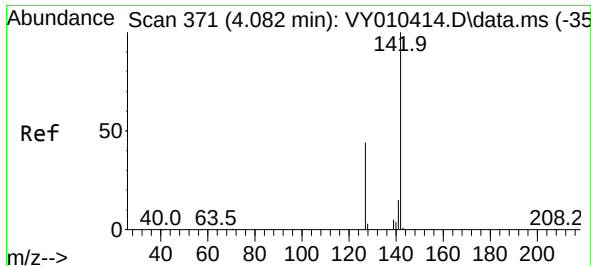
Tgt Ion: 50 Resp: 326
Ion Ratio Lower Upper
50 100
52 41.9 24.6 37.0#



#5
Bromomethane
Concen: 3.197 ug/l
RT: 2.656 min Scan# 137
Delta R.T. 0.012 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 94 Resp: 515
Ion Ratio Lower Upper
94 100
96 34.6 73.5 110.3#

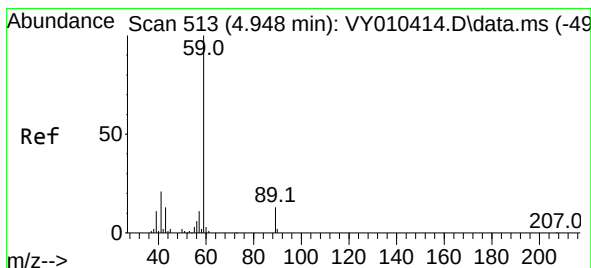
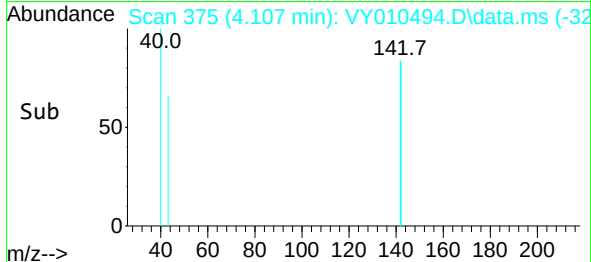
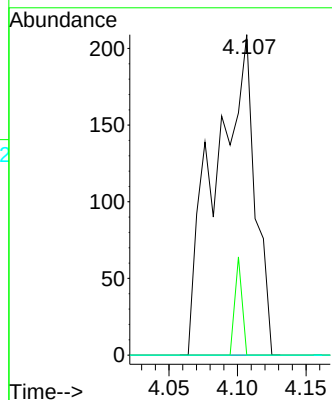
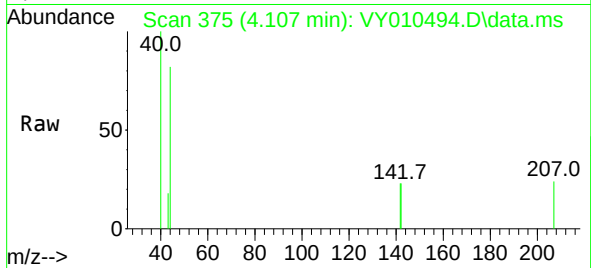




#10
Methyl Iodide
Concen: 1.986 ug/l
RT: 4.107 min Scan# 31
Delta R.T. 0.025 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

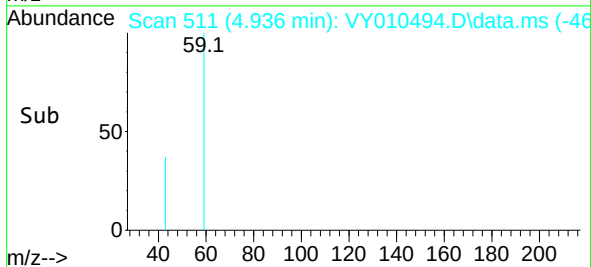
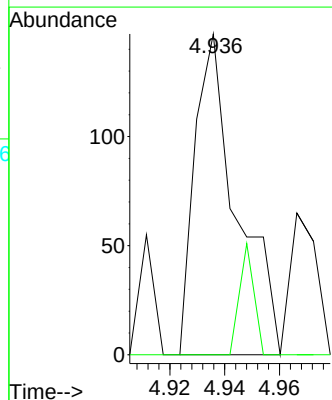
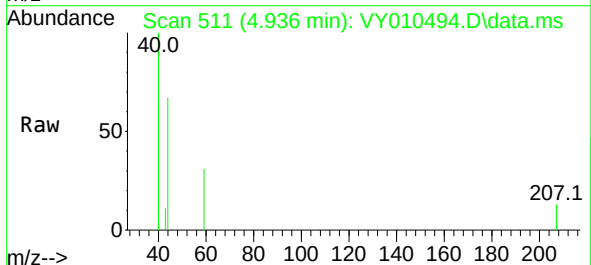
Instrument :
MSVOA_Y
ClientSampleId :
40152

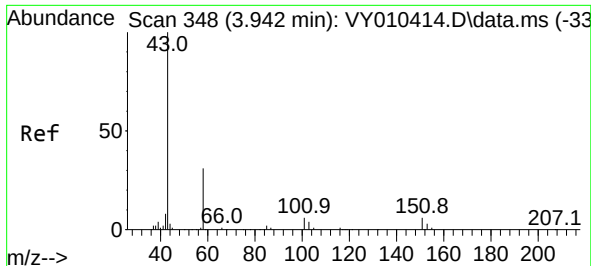
Tgt Ion:142 Resp: 419
Ion Ratio Lower Upper
142 100
127 5.5 41.5 62.3#
141 0.0 11.9 17.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.936 min Scan# 511
Delta R.T. -0.012 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 59 Resp: 157
Ion Ratio Lower Upper
59 100
57 12.1 6.4 9.6#

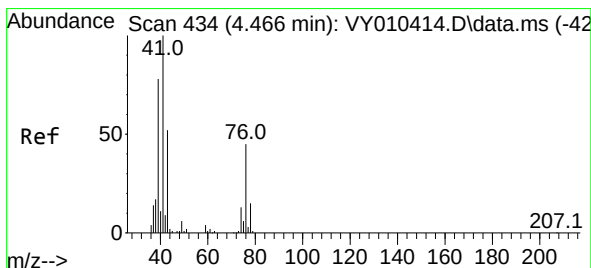
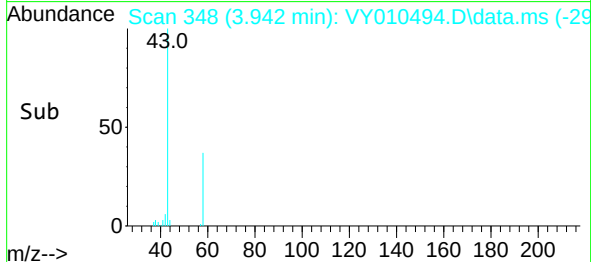
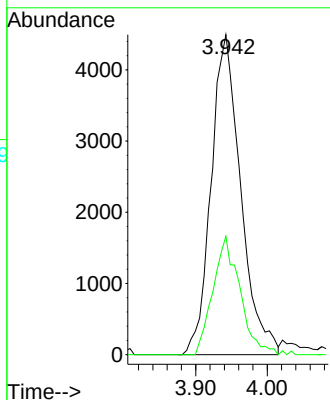
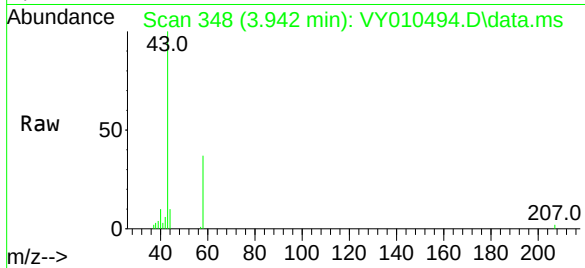




#16
Acetone
Concen: 336.922 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

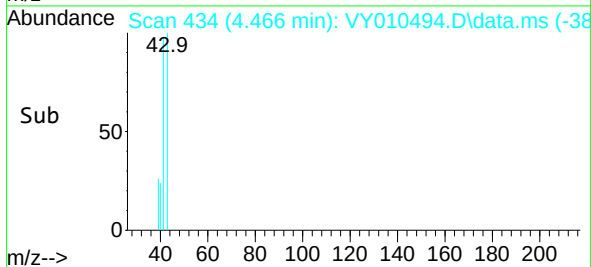
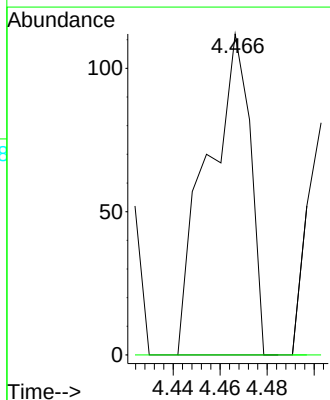
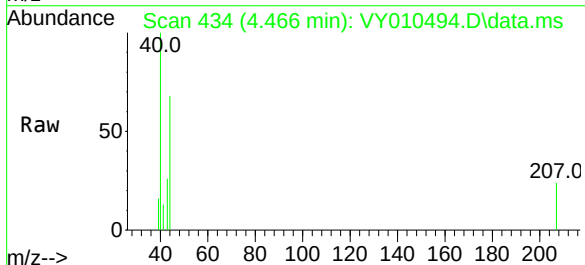
Instrument :
MSVOA_Y
ClientSampleId :
40152

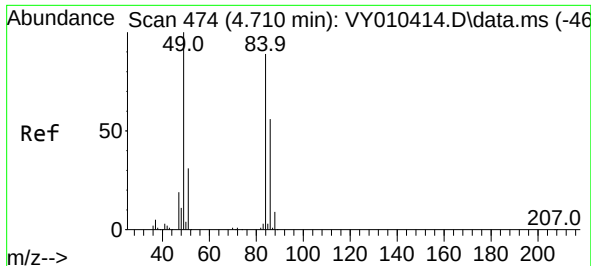
Tgt Ion: 43 Resp: 12917
Ion Ratio Lower Upper
43 100
58 37.0 22.0 33.0#



#18
Methyl Acetate
Concen: 1.204 ug/l
RT: 4.466 min Scan# 434
Delta R.T. 0.000 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 43 Resp: 142
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#

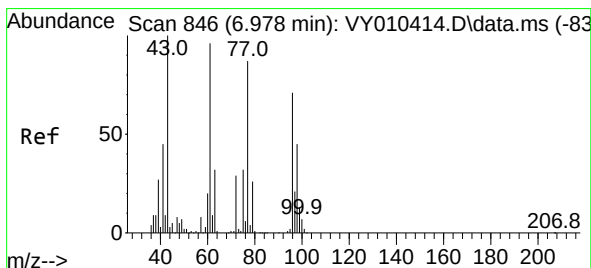
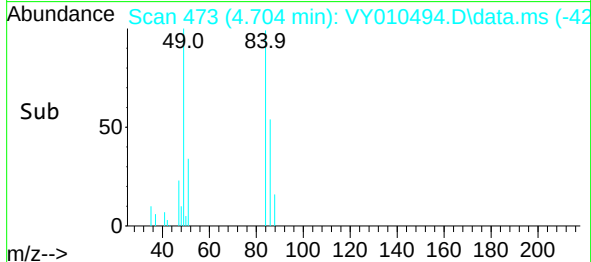
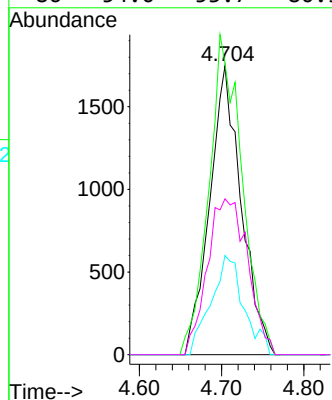
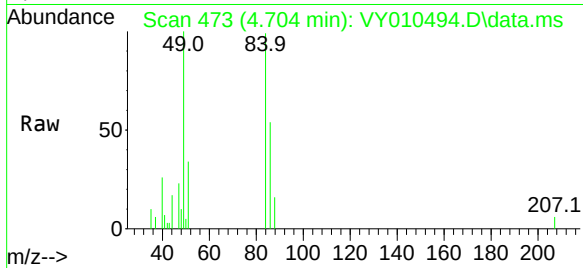




#20
Methylene Chloride
Concen: 21.154 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

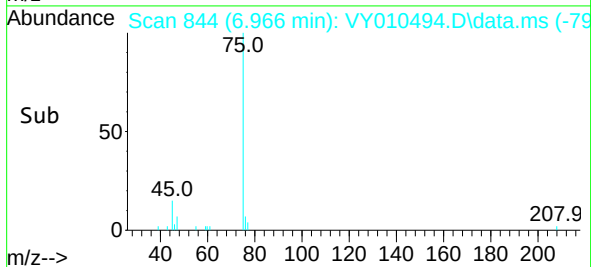
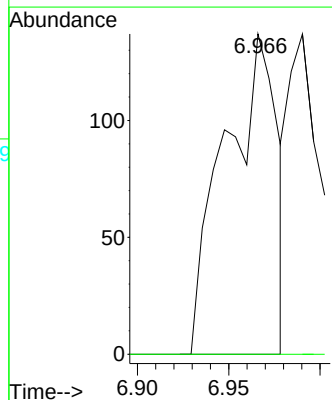
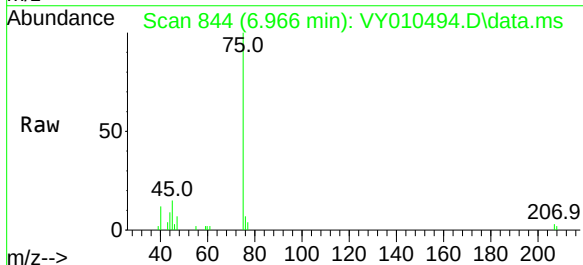
Instrument :
MSVOA_Y
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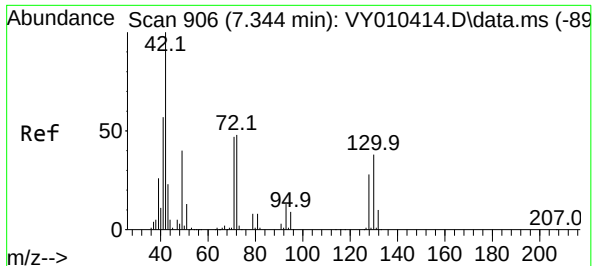
Tgt Ion: 84 Resp: 4663
Ion Ratio Lower Upper
84 100
49 100.9 114.4 171.6#
51 34.3 35.3 52.9#
86 54.0 53.7 80.5



#25
2-Butanone
Concen: 4.497 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.012 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 43 Resp: 274
Ion Ratio Lower Upper
43 100
72 0.0 17.7 26.5#





#29

Tetrahydrofuran

Concen: 1.105 ug/l

RT: 7.435 min Scan# 91

Delta R.T. 0.091 min

Lab File: VY010494.D

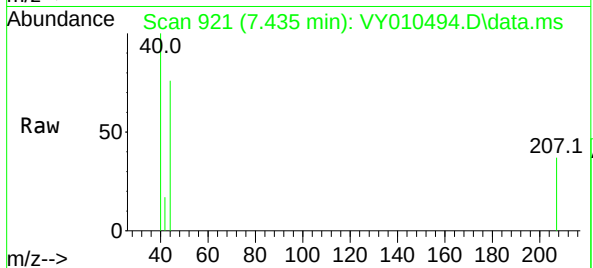
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Instrument :

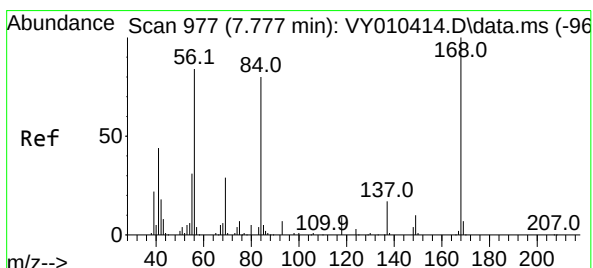
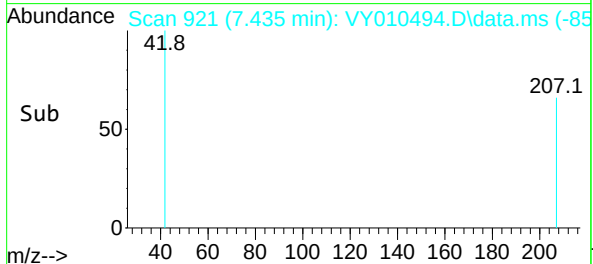
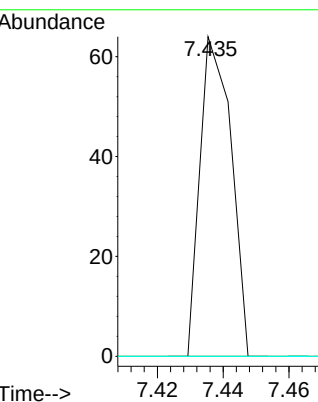
MSVOA_Y

ClientSampleId :

40152



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



#31

Cyclohexane

Concen: 2.059 ug/l

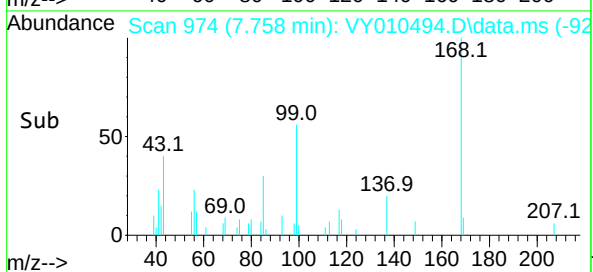
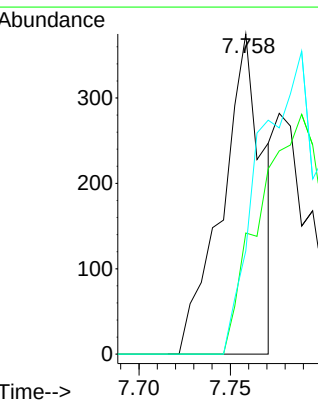
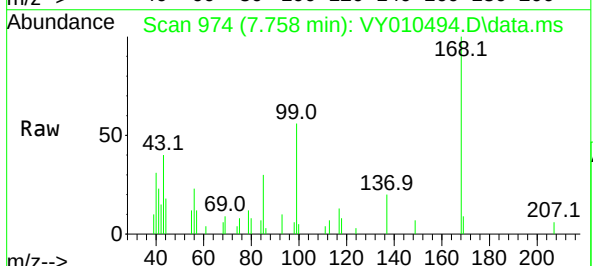
RT: 7.758 min Scan# 974

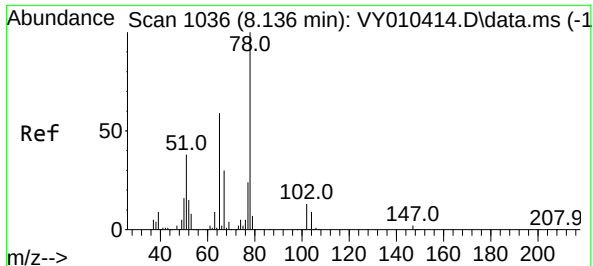
Delta R.T. -0.019 min

Lab File: VY010494.D

Acq: 14 Sep 2022 19:07

Tgt Ion:	56	Resp:	581
Ion	Ratio	Lower	Upper
56	100		
69	37.9	26.7	40.1
84	32.3	67.2	100.8#





#33

1,2-Dichloroethane-d4

Concen: 56.573 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY010494.D

Acq: 14 Sep 2022 19:07

Instrument :

MSVOA_Y

ClientSampleId :

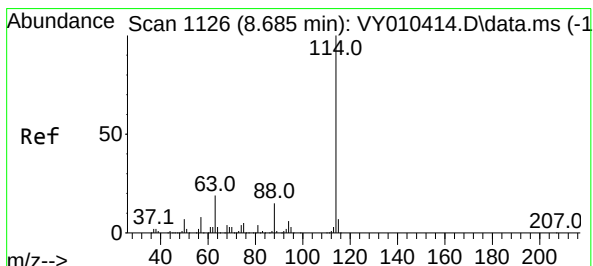
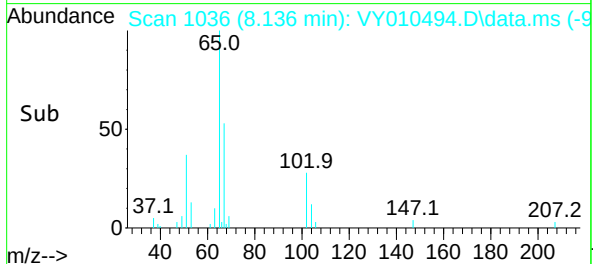
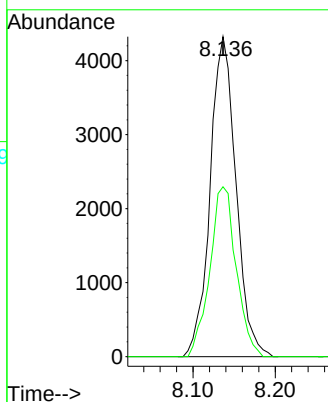
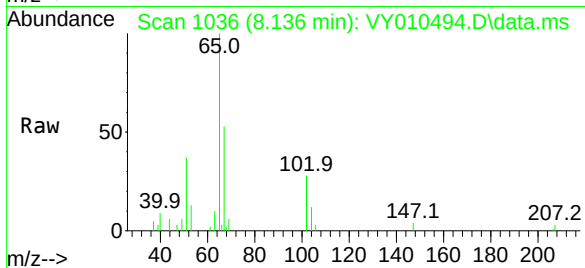
40152

Tgt Ion: 65 Resp: 9451

Ion Ratio Lower Upper

65 100

67 54.2 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: VY010494.D

Acq: 14 Sep 2022 19:07

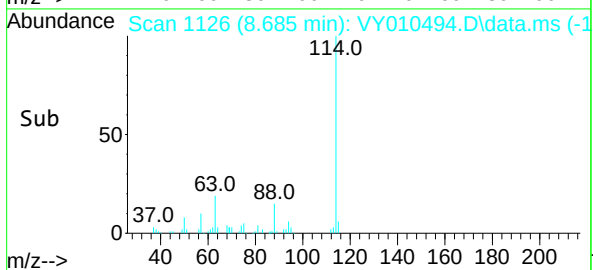
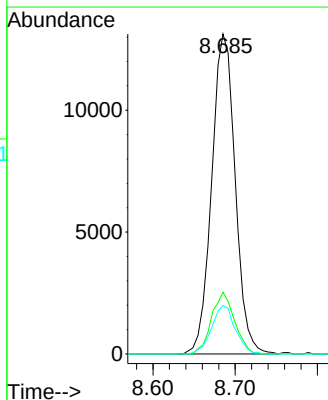
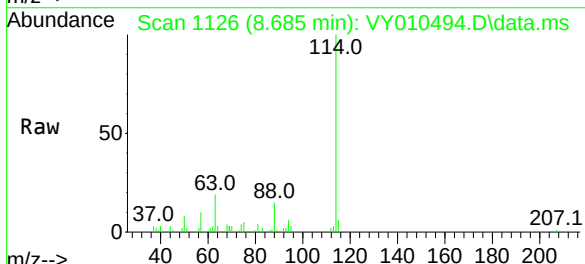
Tgt Ion: 114 Resp: 26074

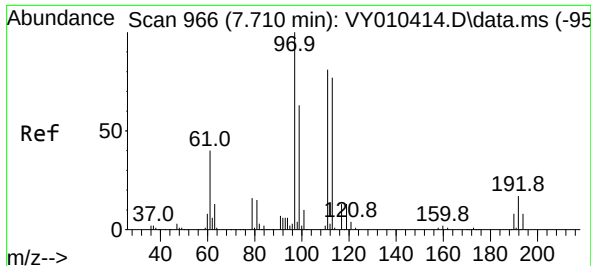
Ion Ratio Lower Upper

114 100

63 19.3 0.0 43.2

88 15.1 0.0 31.8

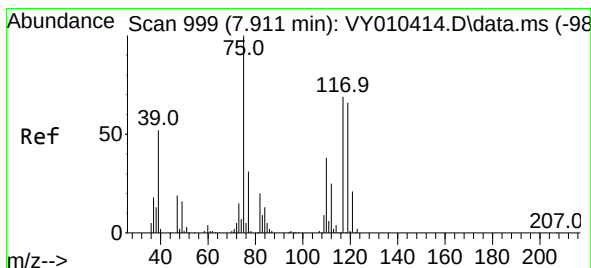
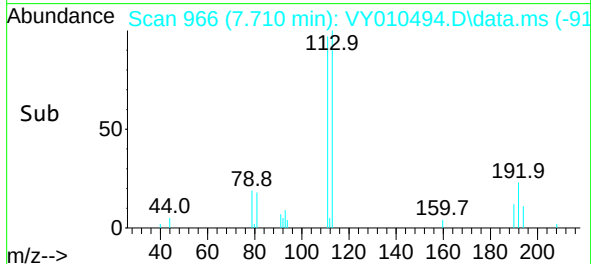
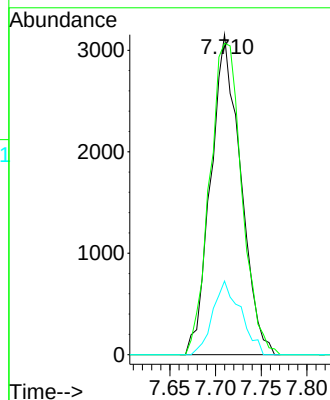
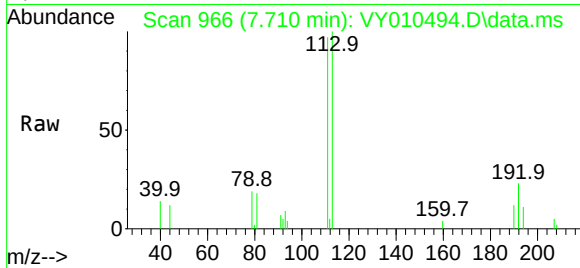




#35
Dibromofluoromethane
Concen: 38.687 ug/l
RT: 7.710 min Scan# 910
Delta R.T. -0.000 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

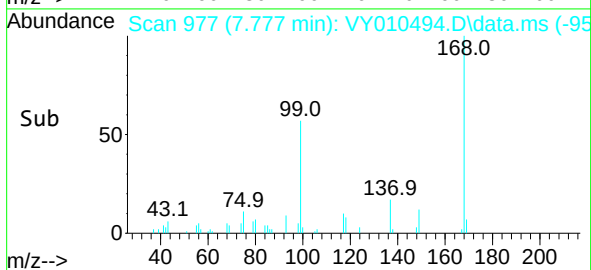
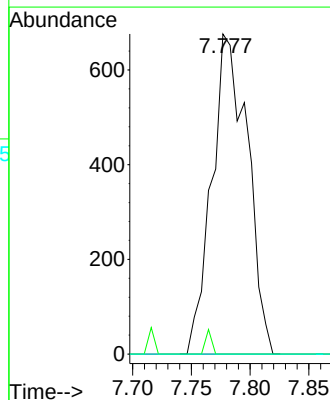
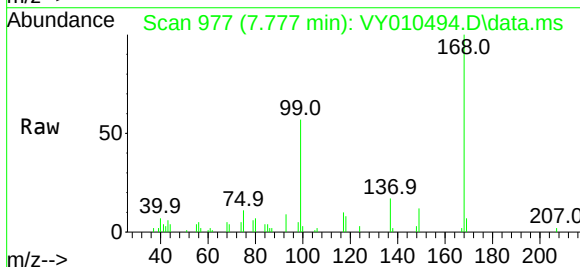
Instrument :
MSVOA_Y
ClientSampleId :
40152

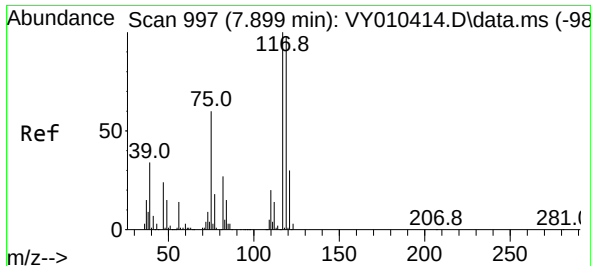
Tgt Ion:113 Resp: 7164
Ion Ratio Lower Upper
113 100
111 104.6 82.6 124.0
192 21.5 17.6 26.4



#36
1,1-Dichloropropene
Concen: 5.637 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.134 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 75 Resp: 1429
Ion Ratio Lower Upper
75 100
110 1.3 17.1 51.2#
77 0.0 24.4 36.6#

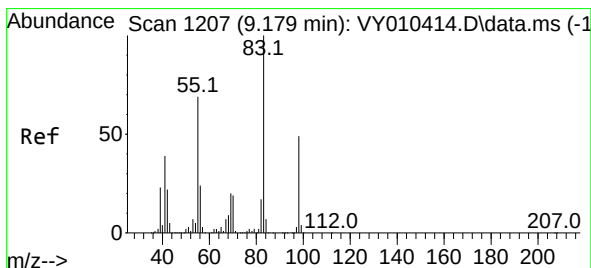
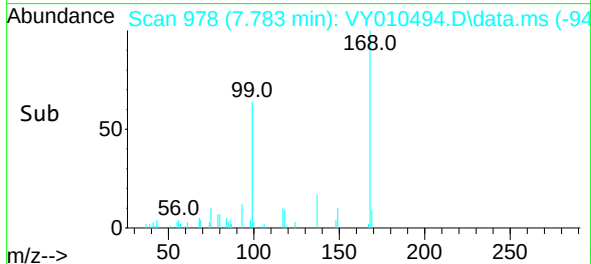
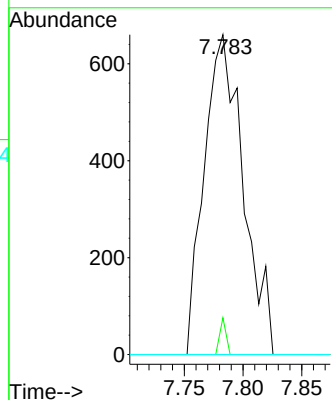
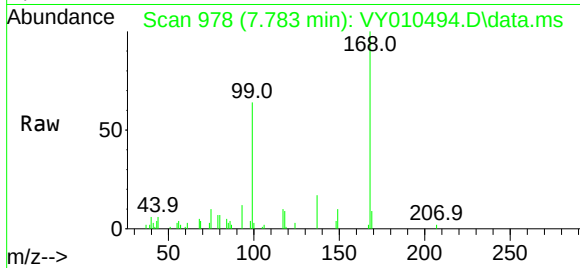




#38
Carbon Tetrachloride
Concen: 5.403 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

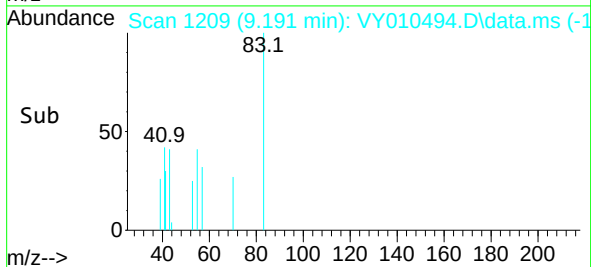
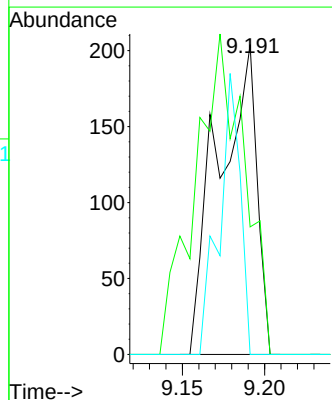
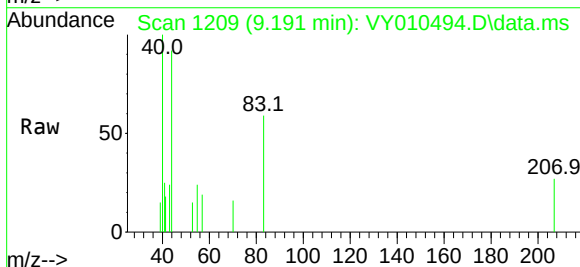
Instrument :
MSVOA_Y
ClientSampleId :
40152

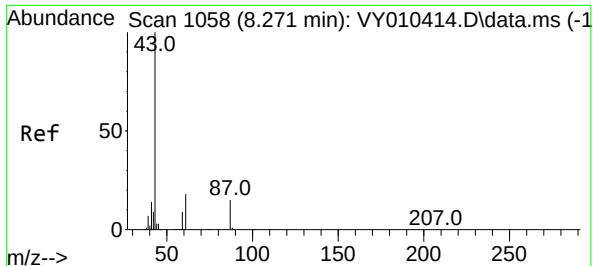
Tgt Ion:117 Resp: 1524
Ion Ratio Lower Upper
117 100
119 11.5 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: 1.047 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. 0.012 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 83 Resp: 331
Ion Ratio Lower Upper
83 100
55 41.2 66.5 99.7#
98 0.0 37.9 56.9#





#43

Isopropyl Acetate

Concen: 1.939 ug/l

RT: 8.258 min Scan# 1056

Delta R.T. -0.013 min

Lab File: VY010494.D

Acq: 14 Sep 2022 19:07

Instrument :

MSVOA_Y

ClientSampleId :

40152

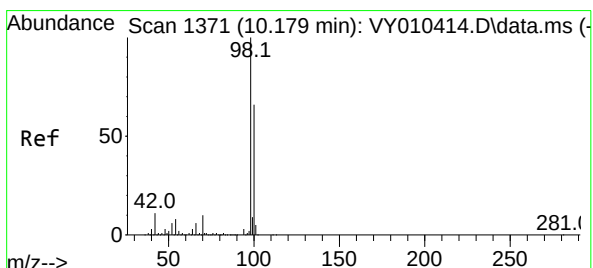
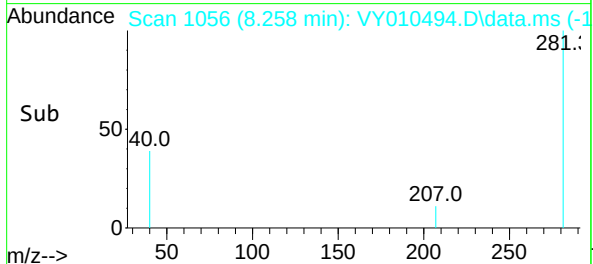
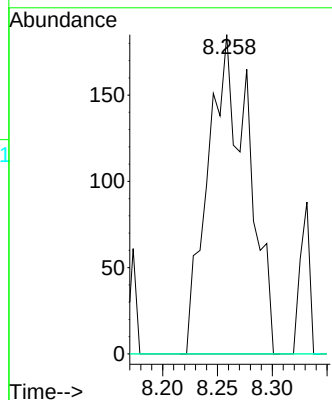
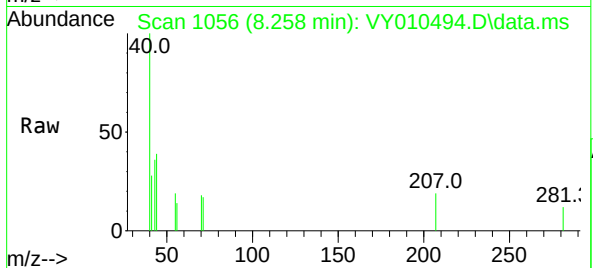
Tgt Ion: 43 Resp: 473

Ion Ratio Lower Upper

43 100

61 0.0 20.2 30.2#

87 0.0 8.9 13.3#



#50

Toluene-d8

Concen: 51.307 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY010494.D

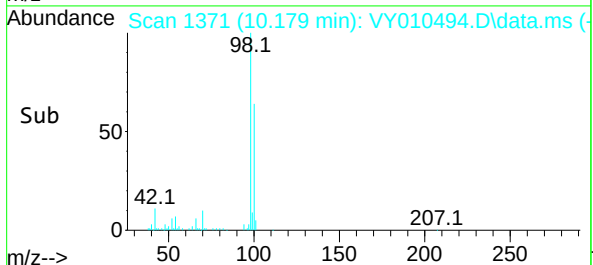
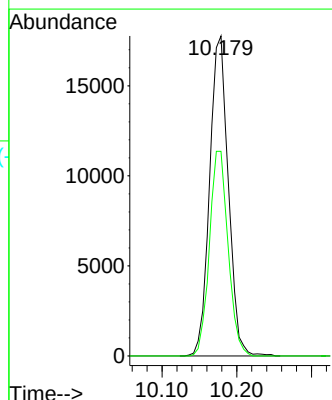
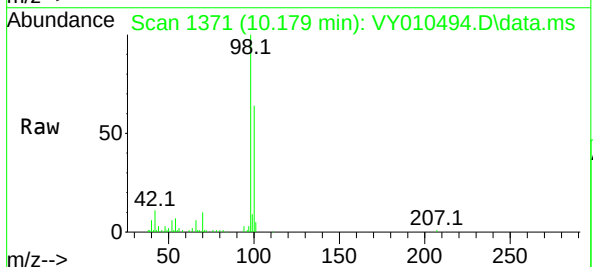
Acq: 14 Sep 2022 19:07

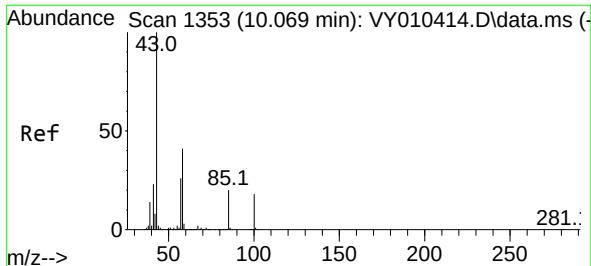
Tgt Ion: 98 Resp: 30792

Ion Ratio Lower Upper

98 100

100 64.1 50.2 75.2

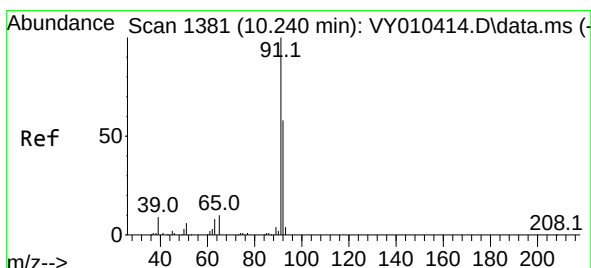
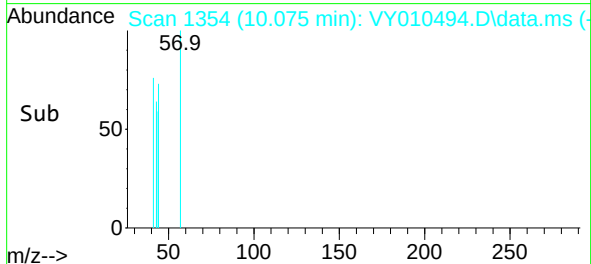
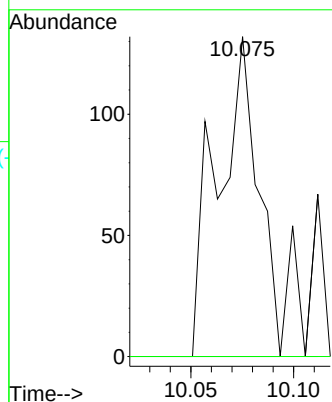
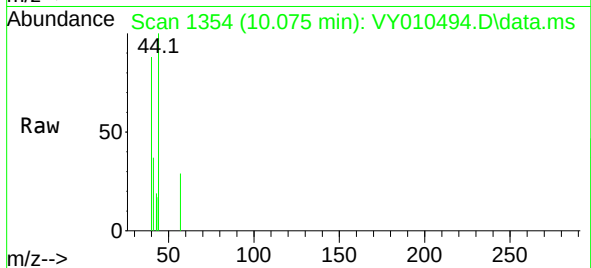




#51
4-Methyl-2-Pentanone
Concen: 1.368 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

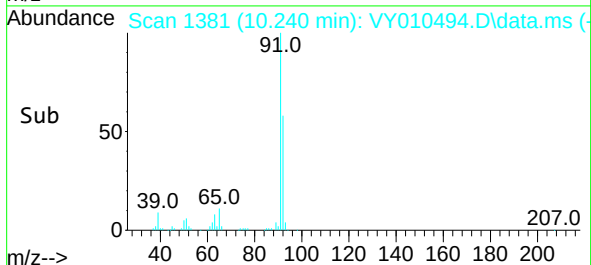
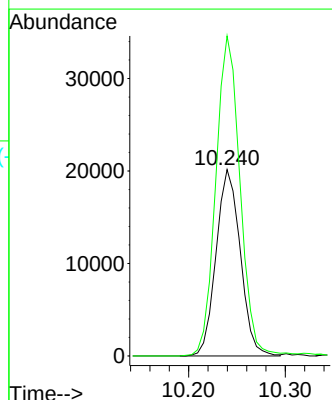
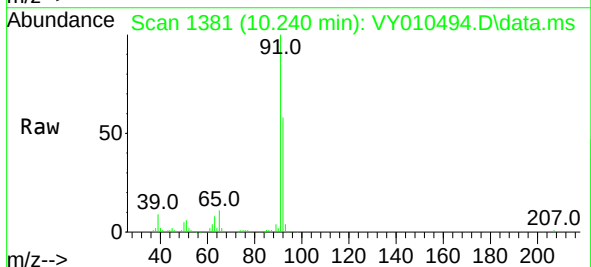
Instrument :
MSVOA_Y
ClientSampleId :
40152

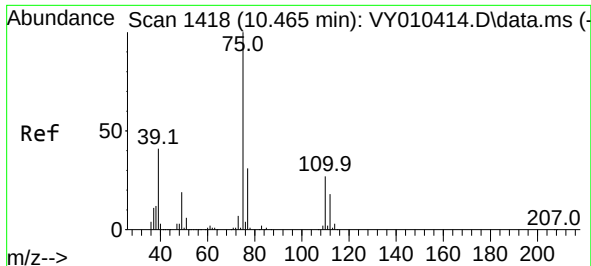
Tgt Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
58 0.0 28.1 42.1#



#52
Toluene
Concen: 73.331 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 92 Resp: 35020
Ion Ratio Lower Upper
92 100
91 172.1 142.6 213.8

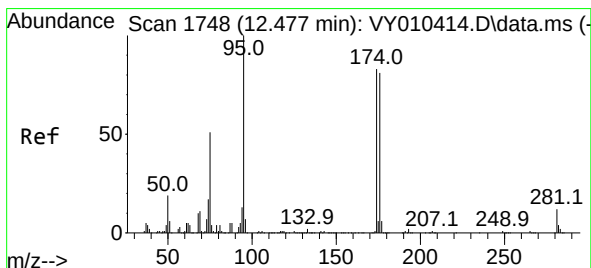
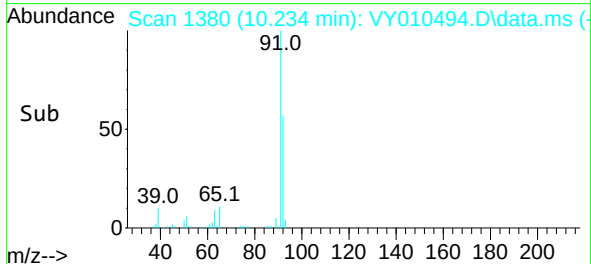
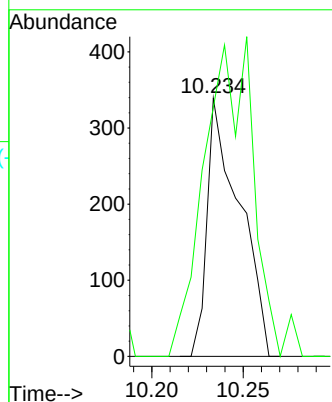
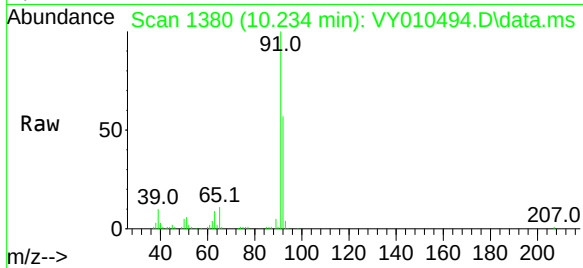




#53
t-1,3-Dichloropropene
Concen: 1.593 ug/l
RT: 10.234 min Scan# 11
Delta R.T. -0.231 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

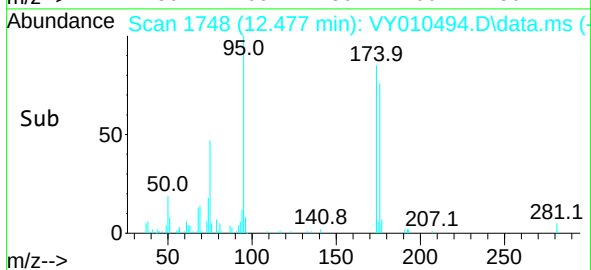
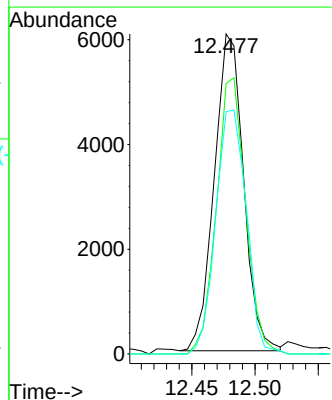
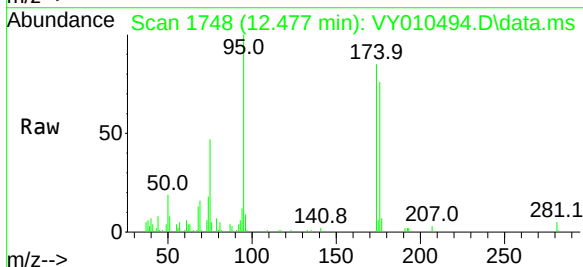
Instrument :
MSVOA_Y
ClientSampleId :
40152

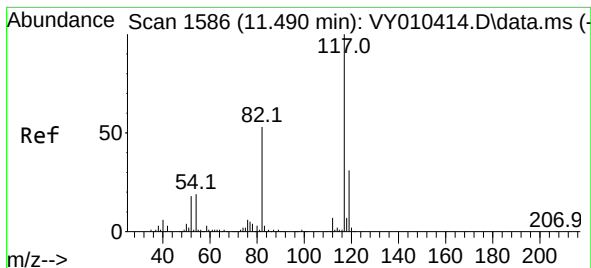
Tgt Ion: 75 Resp: 418
Ion Ratio Lower Upper
75 100
77 96.5 25.4 38.2#



#62
4-Bromofluorobenzene
Concen: 39.610 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 95 Resp: 9727
Ion Ratio Lower Upper
95 100
174 86.7 0.0 177.0
176 80.6 0.0 175.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY010494.D

Acq: 14 Sep 2022 19:07

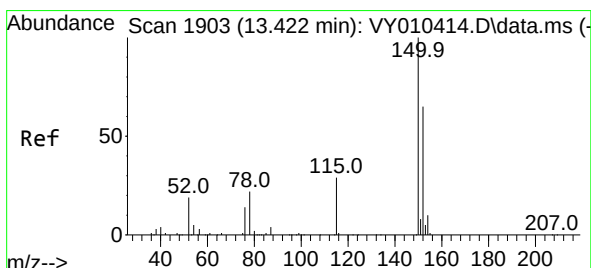
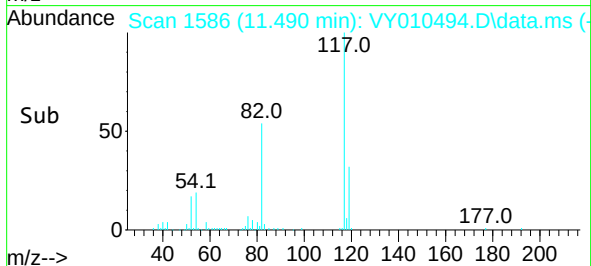
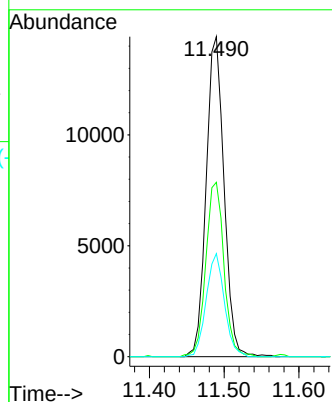
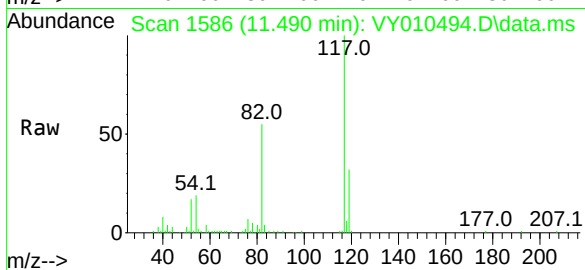
Instrument :

MSVOA_Y

ClientSampleId :

40152

Tgt Ion:	117	Resp:	23917
Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.0	64.4
119	32.2	25.4	38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

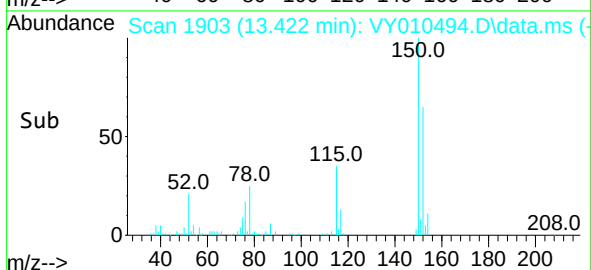
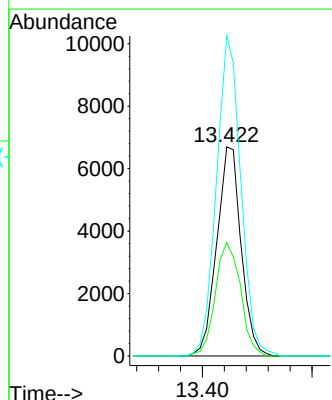
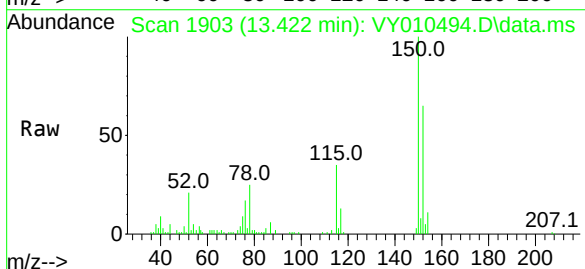
RT: 13.422 min Scan# 1903

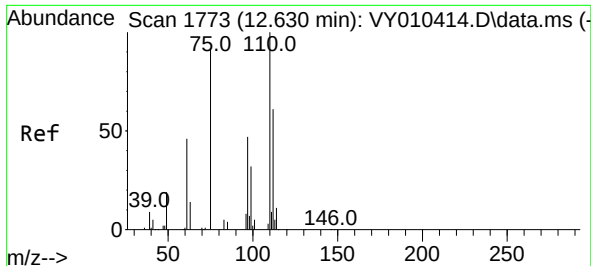
Delta R.T. 0.000 min

Lab File: VY010494.D

Acq: 14 Sep 2022 19:07

Tgt Ion:	152	Resp:	10348
Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.2	84.7
150	153.3	0.0	347.6

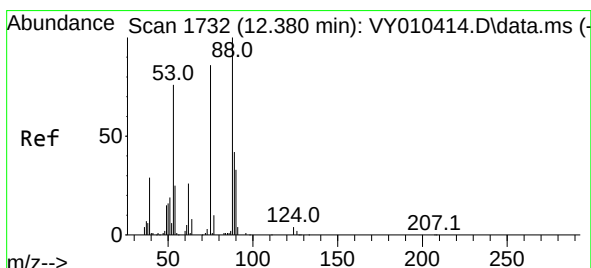
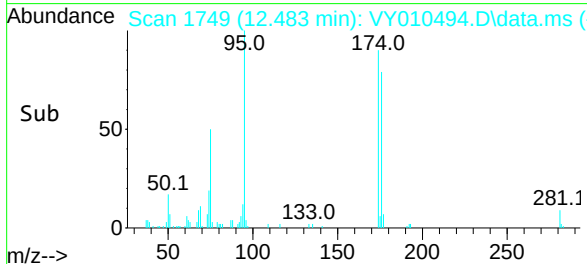
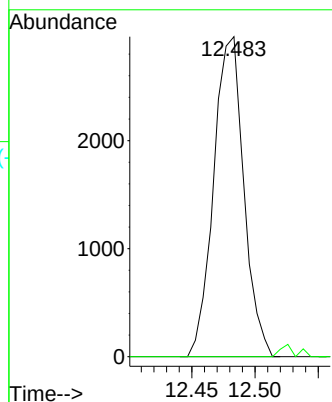
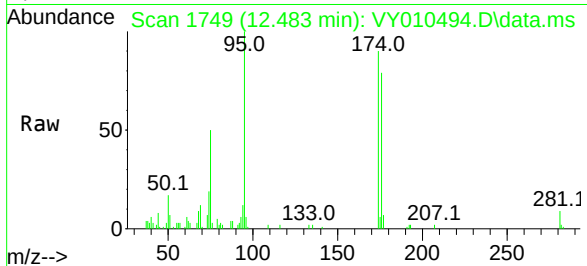




#76
1,2,3-Trichloropropane
Concen: 43.001 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

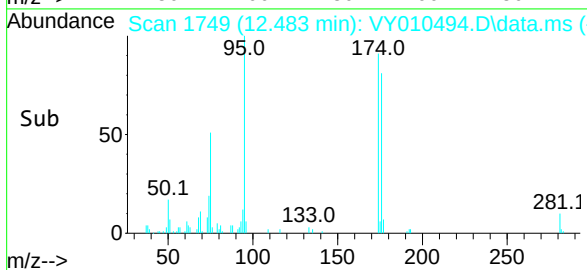
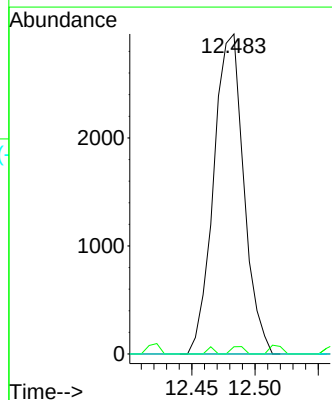
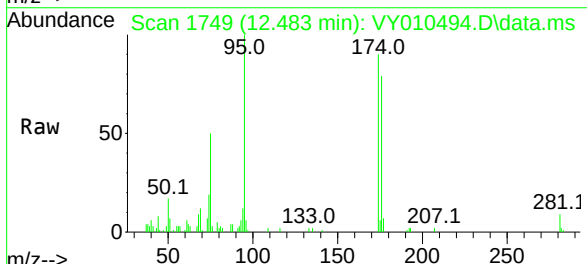
Instrument :
MSVOA_Y
ClientSampleId :
40152

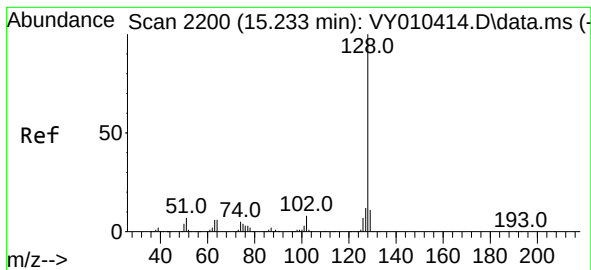
Tgt Ion: 75 Resp: 4911
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 95.477 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY010494.D
Acq: 14 Sep 2022 19:07

Tgt Ion: 75 Resp: 4911
Ion Ratio Lower Upper
75 100
53 1.0 85.3 127.9#
89 0.0 37.0 55.4#





#95

Naphthalene

Concen: 2.272 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY010494.D

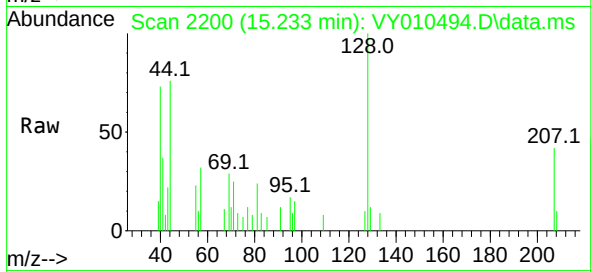
Acq: 14 Sep 2022 19:07

Instrument :

MSVOA_Y

ClientSampleId :

40152



Tgt Ion:128 Resp: 947

Ion Ratio Lower Upper

128 100

127 5.8 11.0 16.4#

129 14.9 8.4 12.6#

