

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060225\
 Data File : VY022506.D
 Acq On : 02 Jun 2025 17:57
 Operator : SY/MD
 Sample : Q2153-01RE
 Misc : 6.34g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-42

Quant Time: Jun 03 04:09:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

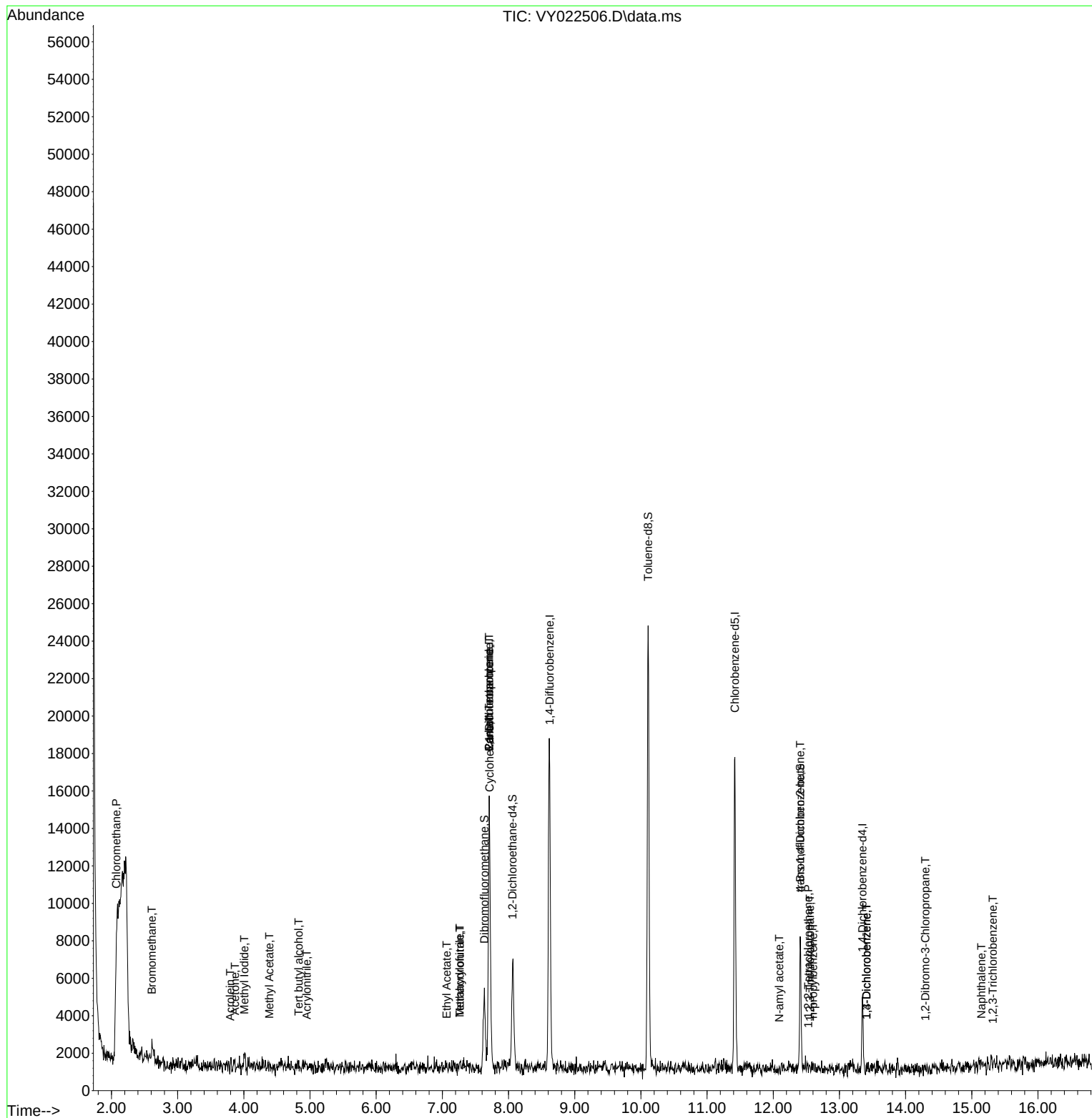
Internal Standards						
1) Pentafluorobenzene	7.707	168	9378	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	14766	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	8115	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	1136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	4328	41.263	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	82.520%
35) Dibromofluoromethane	7.634	113	2846	32.291	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	64.580%
50) Toluene-d8	10.109	98	16023	44.993	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	89.980%
62) 4-Bromofluorobenzene	12.408	95	2007	18.915	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	37.820%
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	948	3.822	ug/l #	85
5) Bromomethane	2.611	94	564	2.045	ug/l	93
10) Methyl Iodide	4.007	142	823	7.392	ug/l #	58
11) Tert butyl alcohol	4.830	59	49	6.541	ug/l #	73
13) Acrolein	3.793	56	96	10.283	ug/l #	14
15) Acrylonitrile	4.952	53	58	2.489	ug/l #	36
16) Acetone	3.866	43	59	2.770	ug/l #	11
18) Methyl Acetate	4.385	43	108	1.712	ug/l #	51
29) Tetrahydrofuran	7.262	42	44	2.220	ug/l #	31
31) Cyclohexane	7.713	56	299	1.484	ug/l #	2
36) 1,1-Dichloropropene	7.707	75	503	3.516	ug/l #	46
37) Ethyl Acetate	7.067	43	92	1.442	ug/l #	69
38) Carbon Tetrachloride	7.707	117	1360	9.268	ug/l #	13
41) Methacrylonitrile	7.262	41	95	2.550	ug/l #	38
74) N-amyl acetate	12.091	43	59	2.507	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.530	83	30	1.960	ug/l #	25
76) 1,2,3-Trichloropropane	12.554	75	82	6.310	ug/l #	100
78) n-propylbenzene	12.603	91	138	1.211	ug/l #	54
81) trans-1,4-Dichloro-2-b...	12.408	75	1274	236.732	ug/l #	10
87) 1,3-Dichlorobenzene	13.407	146	47	1.179	ug/l #	25
88) 1,4-Dichlorobenzene	13.407	146	47	1.215	ug/l #	25
92) 1,2-Dibromo-3-Chloropr...	14.298	75	21	9.423	ug/l #	2
95) Naphthalene	15.145	128	210	5.926	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.316	180	37	2.338	ug/l #	1

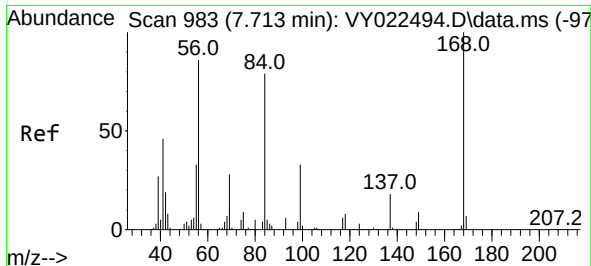
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

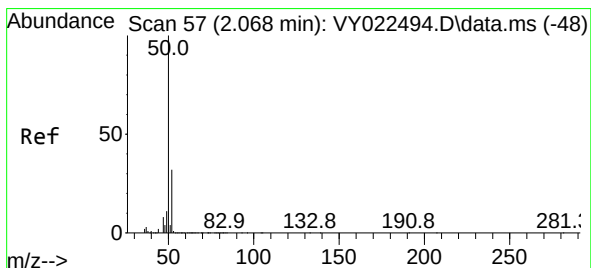
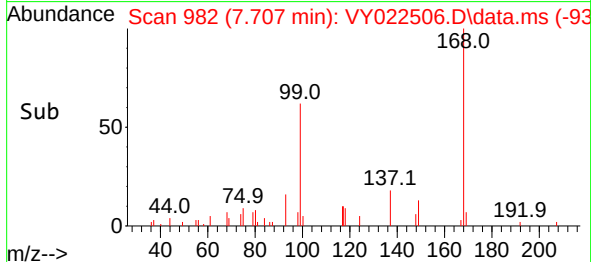
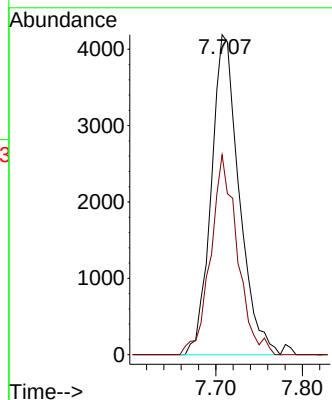
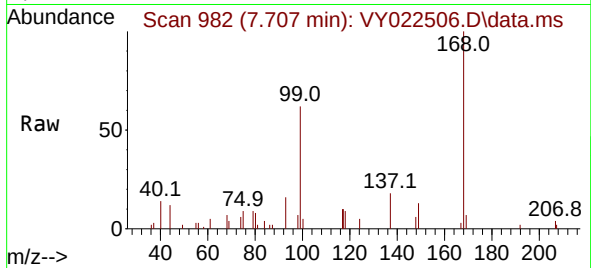




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

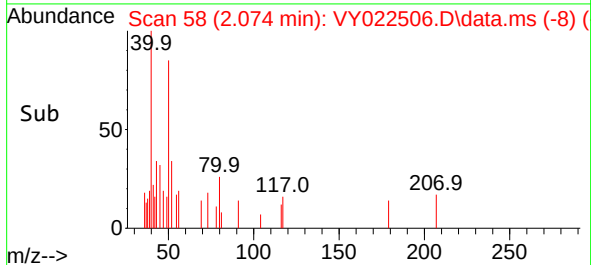
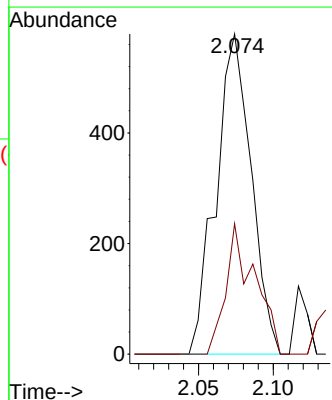
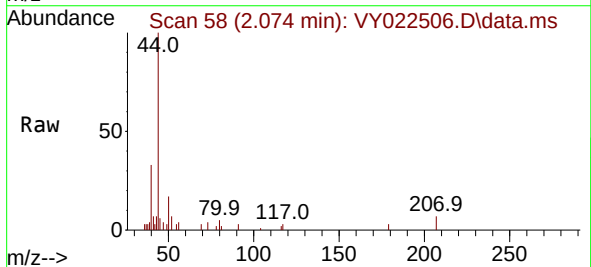
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

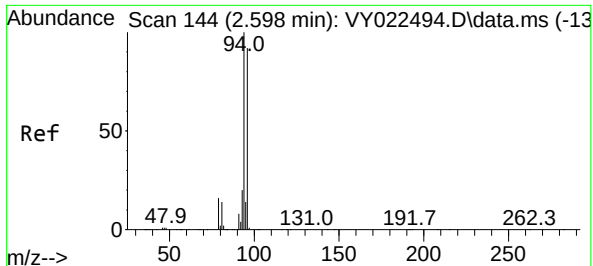
Tgt Ion:168 Resp: 9378
Ion Ratio Lower Upper
168 100
99 62.5 44.3 66.5



#3
Chloromethane
Concen: 3.822 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 50 Resp: 948
Ion Ratio Lower Upper
50 100
52 40.8 26.0 39.0#

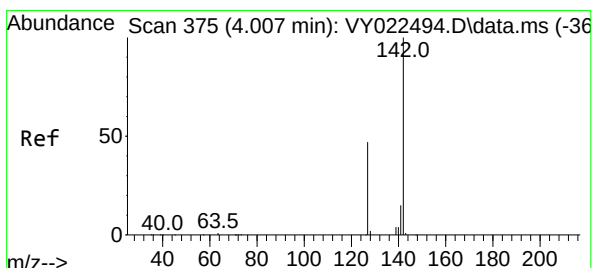
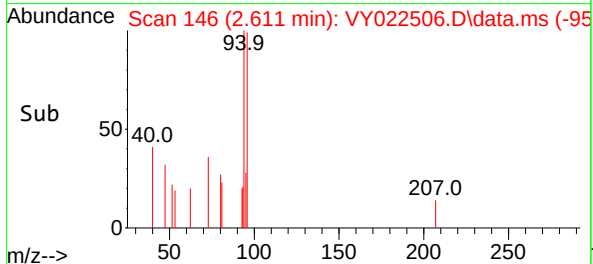
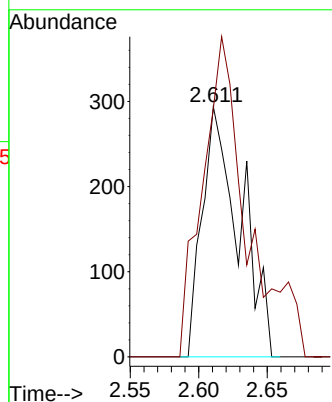
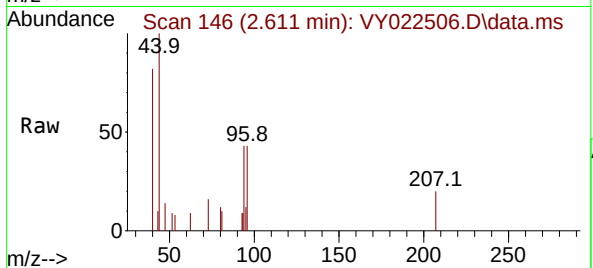




#5
Bromomethane
Concen: 2.045 ug/l
RT: 2.611 min Scan# 146
Delta R.T. 0.012 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

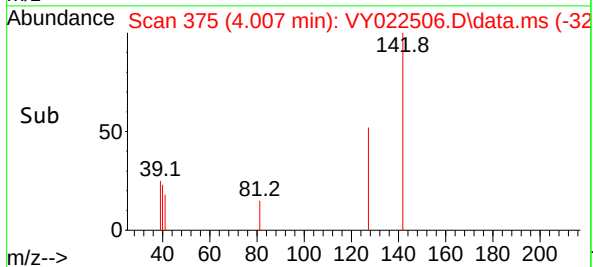
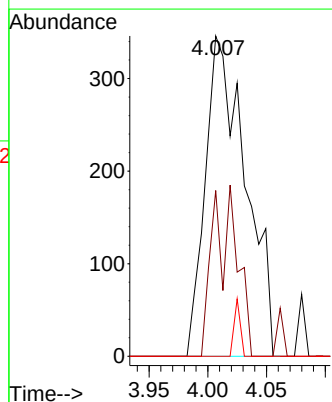
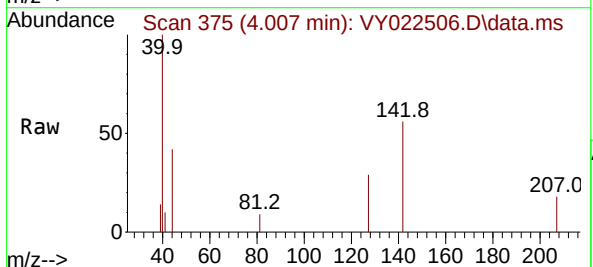
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

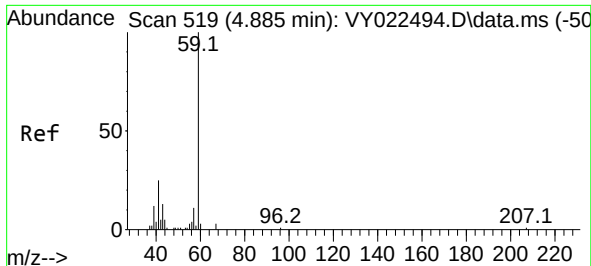
Tgt Ion: 94 Resp: 564
Ion Ratio Lower Upper
94 100
96 99.0 74.0 111.0



#10
Methyl Iodide
Concen: 7.392 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion:142 Resp: 823
Ion Ratio Lower Upper
142 100
127 15.4 37.1 55.7#
141 2.8 11.4 17.2#

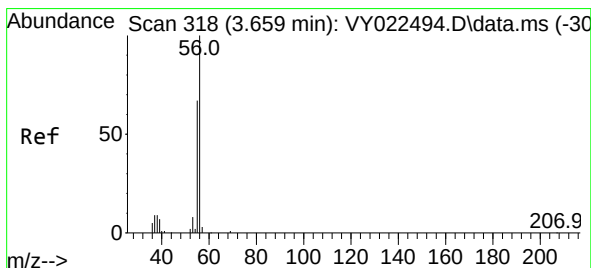
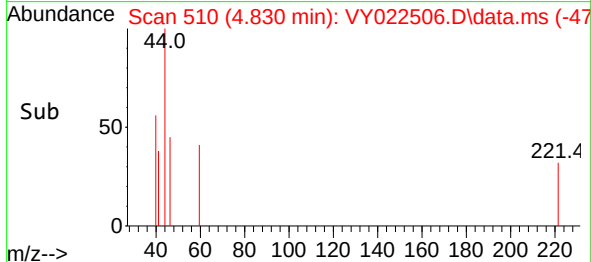
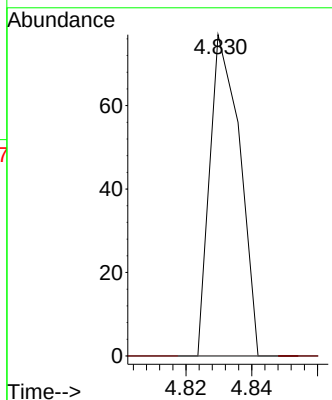
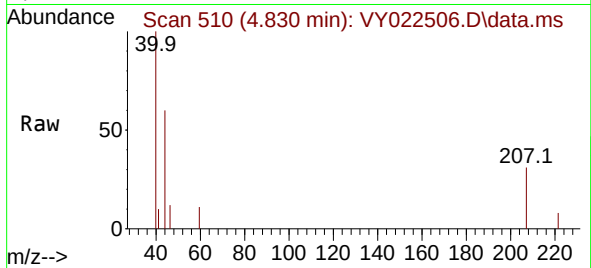




#11
Tert butyl alcohol
Concen: 6.541 ug/l
RT: 4.830 min Scan# 51
Delta R.T. -0.055 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

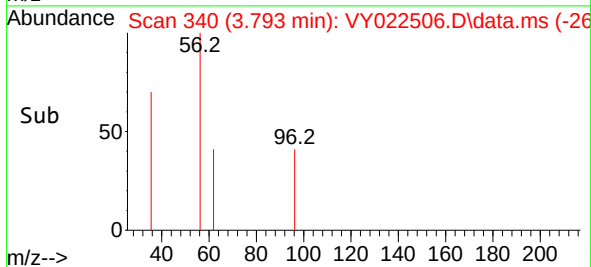
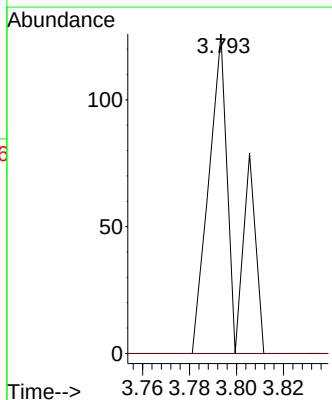
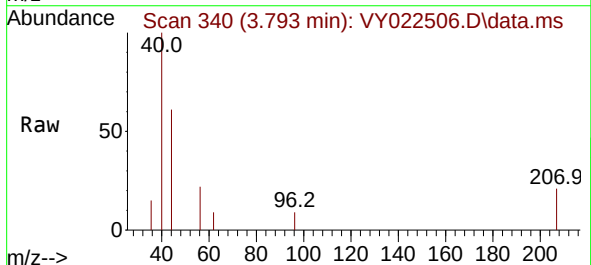
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

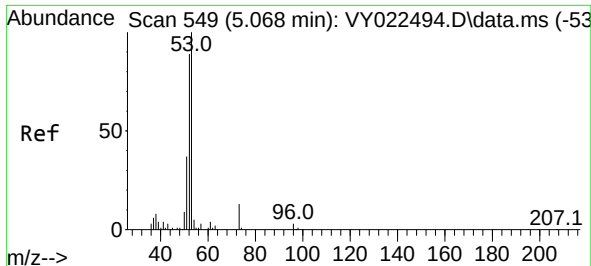
Tgt Ion: 59 Resp: 49
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#13
Acrolein
Concen: 10.283 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.134 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 56 Resp: 96
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#

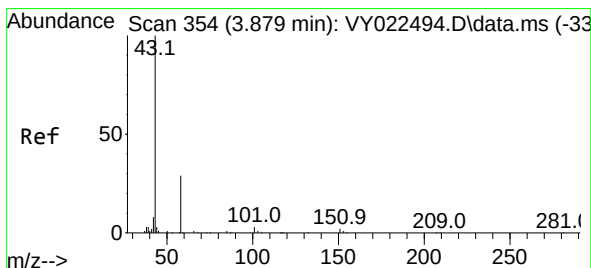
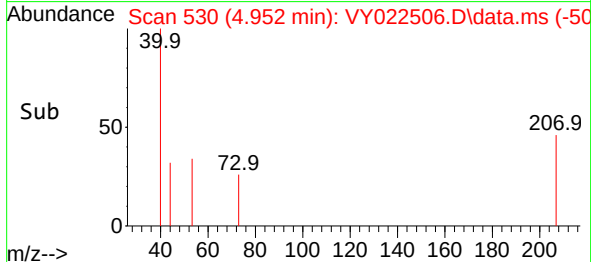
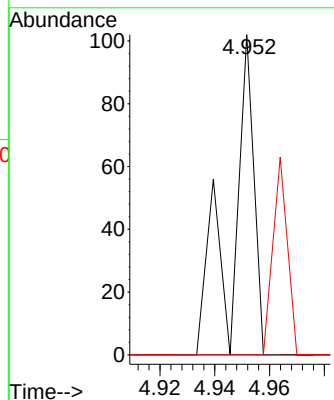
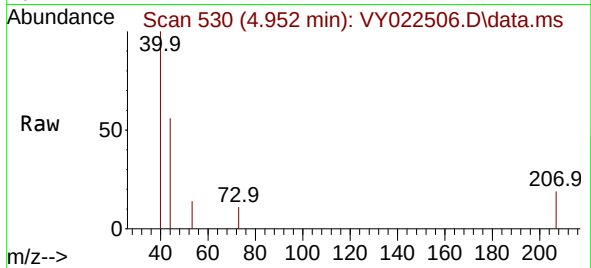




#15
Acrylonitrile
Concen: 2.489 ug/l
RT: 4.952 min Scan# 51
Delta R.T. -0.116 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

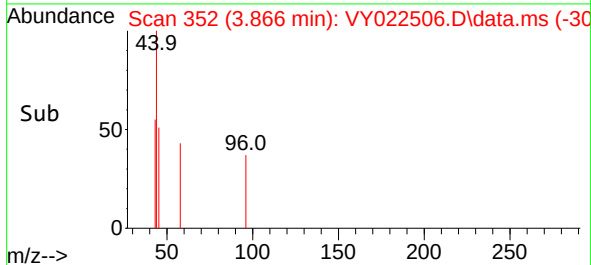
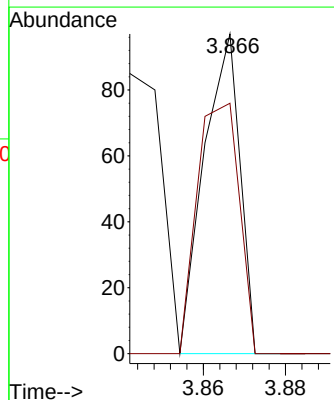
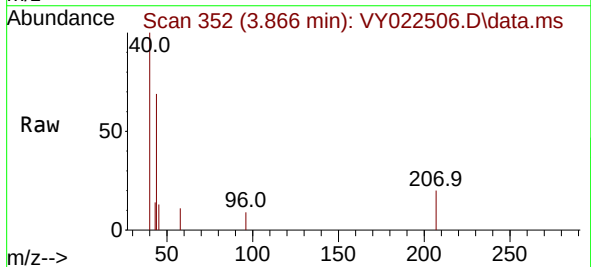
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

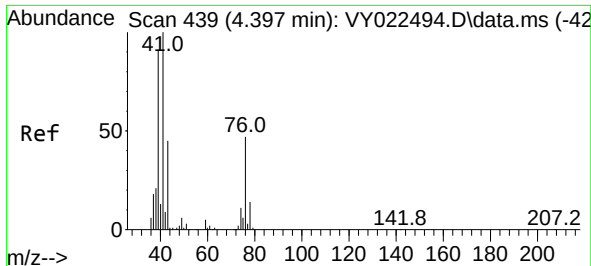
Tgt Ion: 53 Resp: 58
Ion Ratio Lower Upper
53 100
52 0.0 65.7 98.5#
51 39.7 30.1 45.1



#16
Acetone
Concen: 2.770 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.012 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
58 78.4 24.0 36.0#

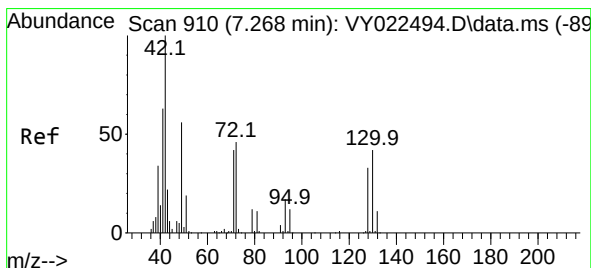
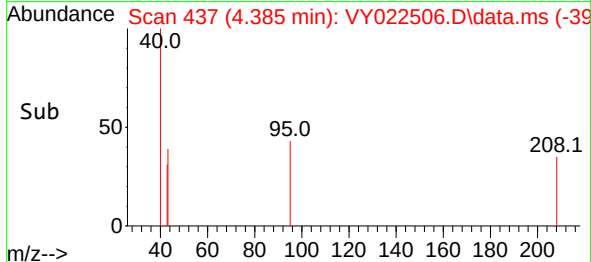
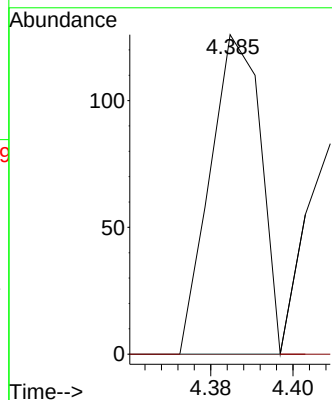
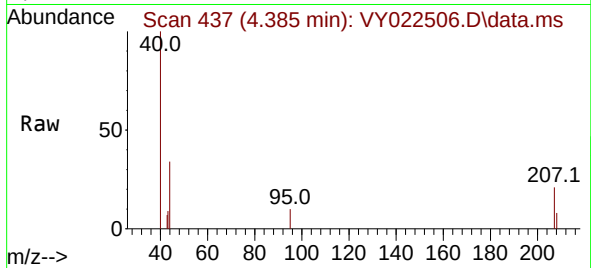




#18
Methyl Acetate
Concen: 1.712 ug/l
RT: 4.385 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

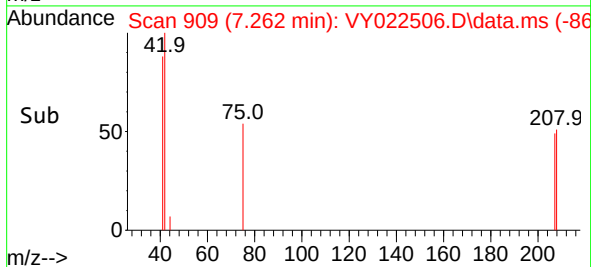
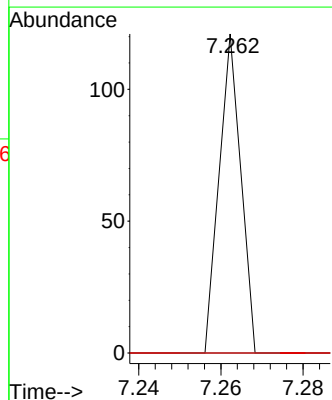
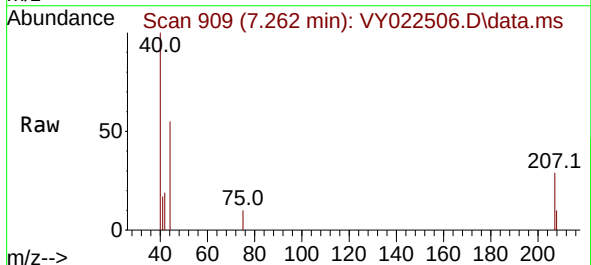
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ClientSampleId :
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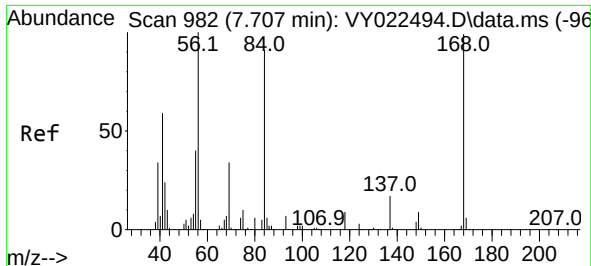
Tgt Ion: 43 Resp: 108
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#29
Tetrahydrofuran
Concen: 2.220 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 42 Resp: 44
Ion Ratio Lower Upper
42 100
72 0.0 37.4 56.2#
71 0.0 34.2 51.2#

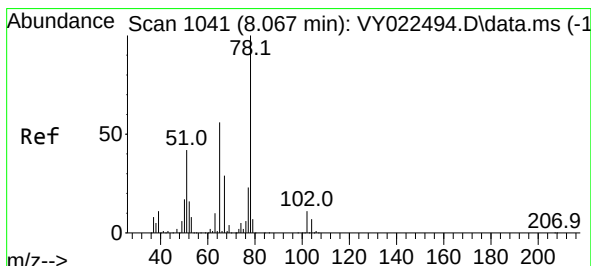
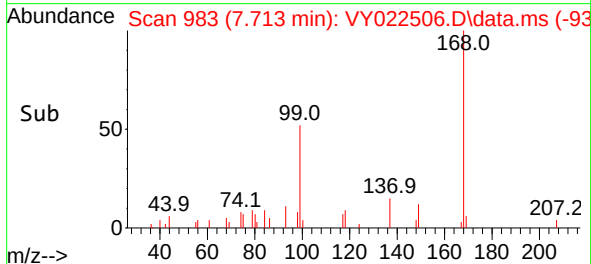
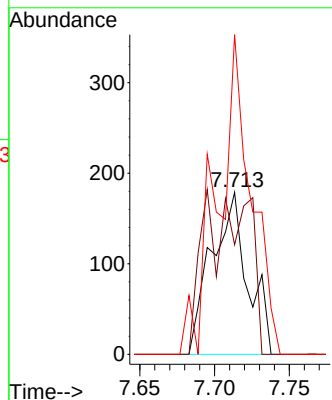
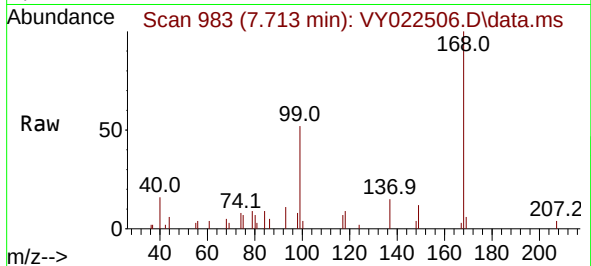




#31
Cyclohexane
Concen: 1.484 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

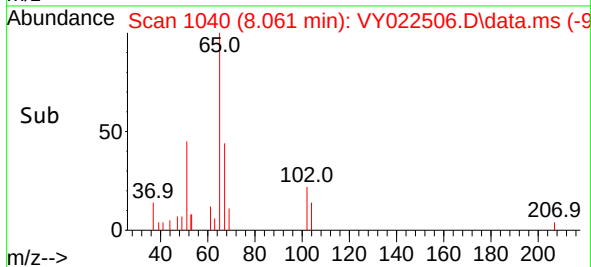
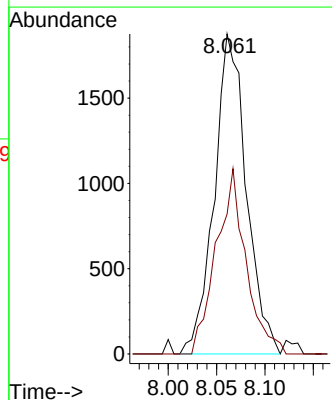
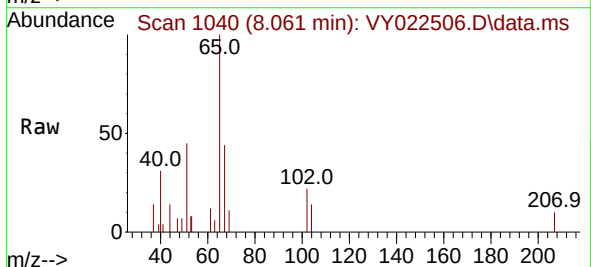
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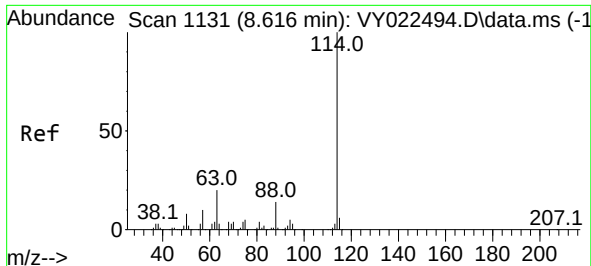
Tgt Ion: 56 Resp: 299
Ion Ratio Lower Upper
56 100
69 67.6 27.0 40.6#
84 197.2 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 41.263 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 65 Resp: 4328
Ion Ratio Lower Upper
65 100
67 53.9 0.0 103.4

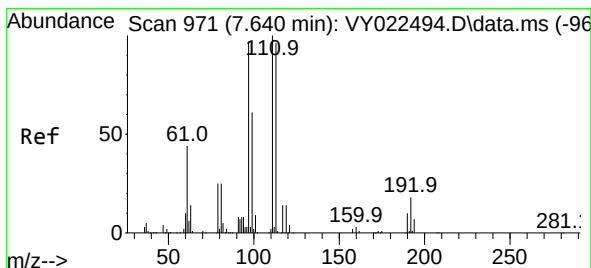
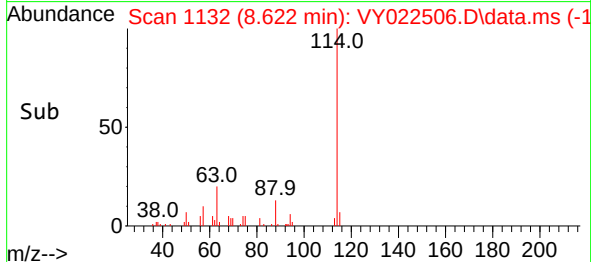
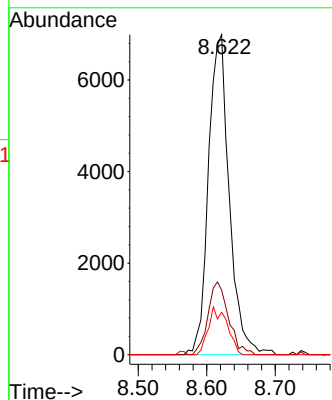
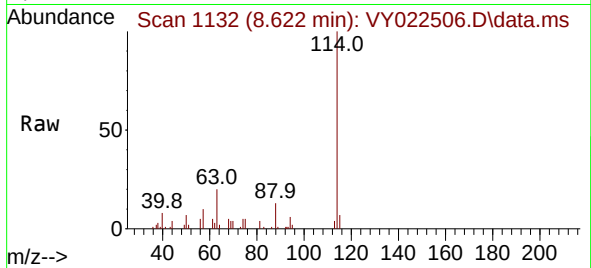




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

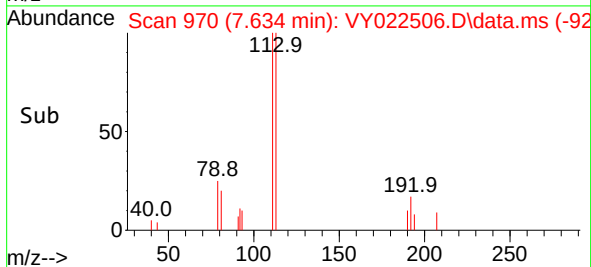
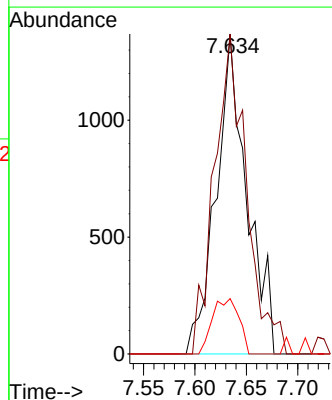
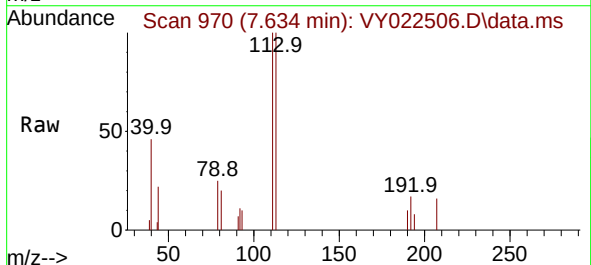
Instrument :
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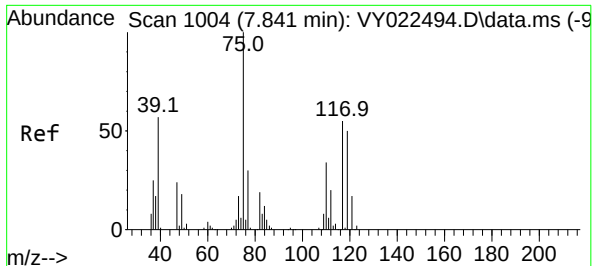
Tgt Ion:114	Resp:	14766
Ion Ratio	Lower	Upper
114	100	
63	20.1	0.0 40.8
88	13.2	0.0 27.8



#35
Dibromofluoromethane
Concen: 32.291 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion:113	Resp:	2846
Ion Ratio	Lower	Upper
113	100	
111	104.5	81.1 121.7
192	15.0	14.2 21.2

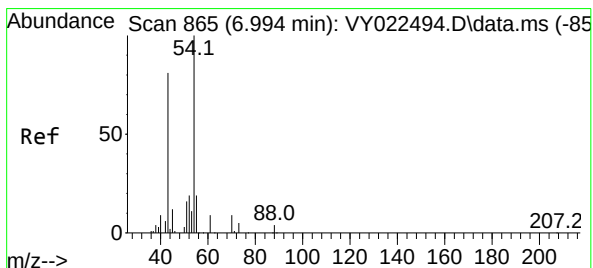
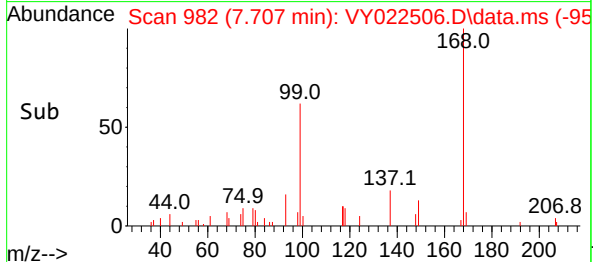
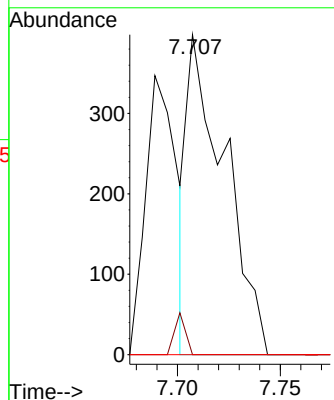
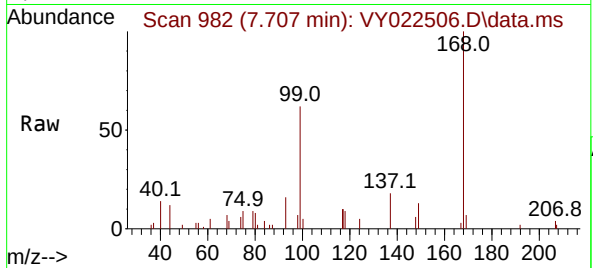




#36
1,1-Dichloropropene
Concen: 3.516 ug/l
RT: 7.707 min Scan# 911
Delta R.T. -0.134 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

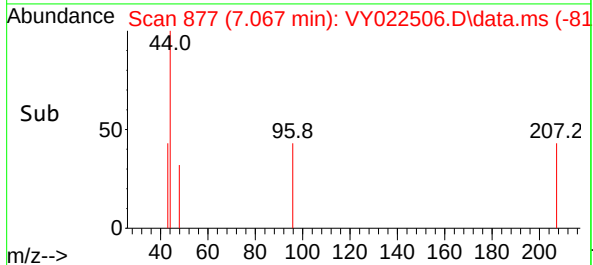
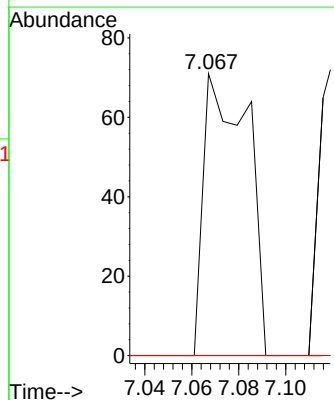
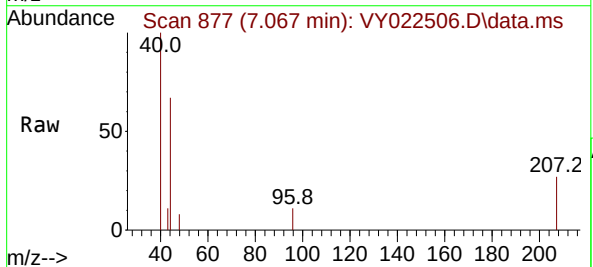
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

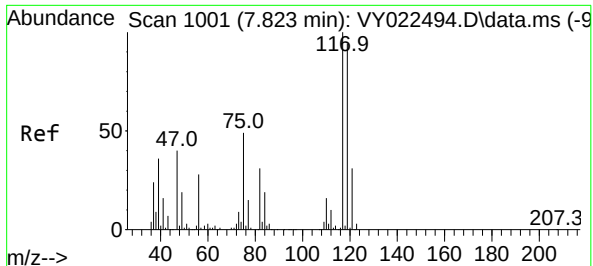
Tgt Ion: 75 Resp: 503
Ion Ratio Lower Upper
75 100
110 3.8 16.9 50.7#
77 0.0 24.8 37.2#



#37
Ethyl Acetate
Concen: 1.442 ug/l
RT: 7.067 min Scan# 877
Delta R.T. 0.073 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 43 Resp: 92
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 7.2 10.8#

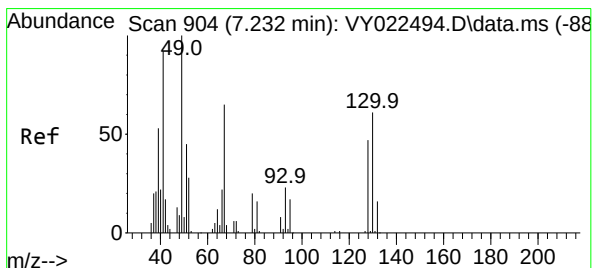
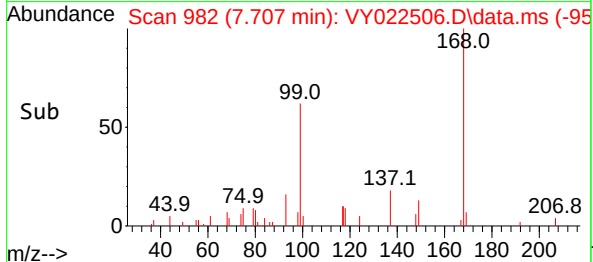
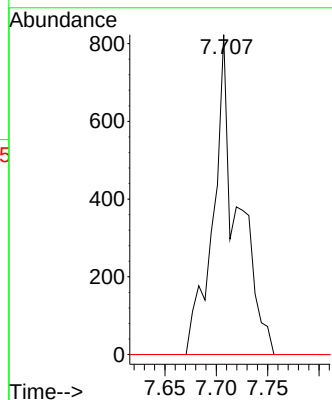
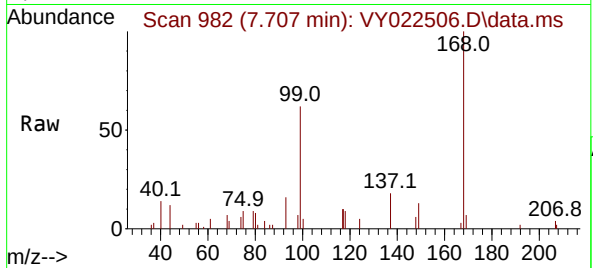




#38
Carbon Tetrachloride
Concen: 9.268 ug/l
RT: 7.707 min Scan# 911
Delta R.T. -0.116 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

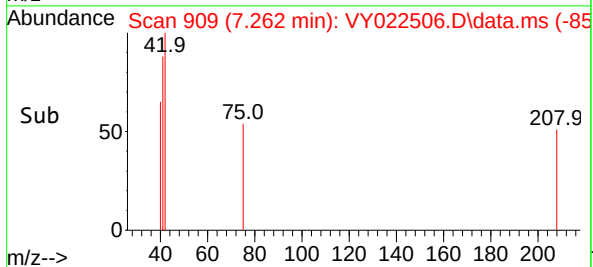
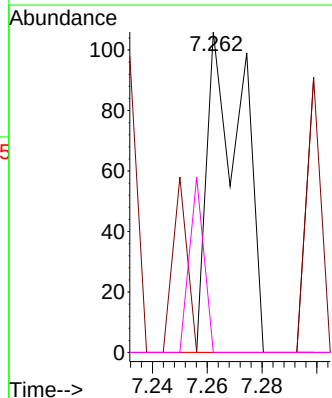
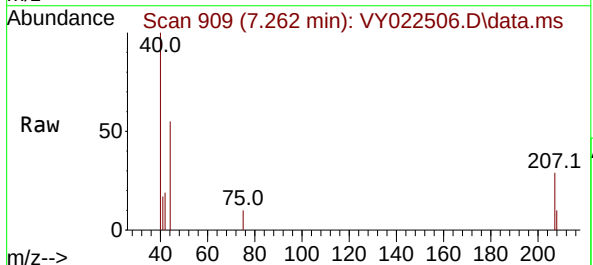
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

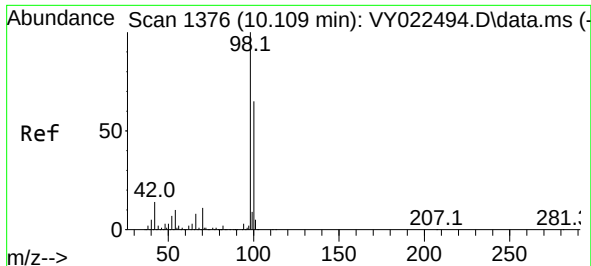
Tgt Ion:117 Resp: 1360
Ion Ratio Lower Upper
117 100
119 0.0 75.0 112.6#
121 0.0 25.0 37.4#



#41
Methacrylonitrile
Concen: 2.550 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.030 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 41 Resp: 95
Ion Ratio Lower Upper
41 100
39 22.1 46.6 69.8#
67 0.0 63.3 94.9#
52 22.1 27.5 41.3#

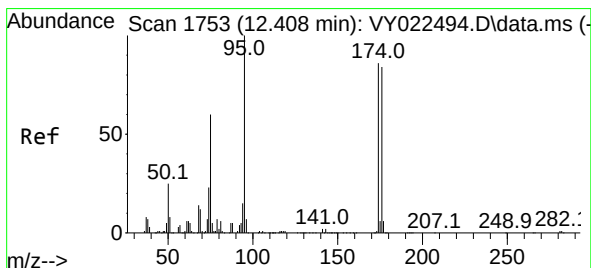
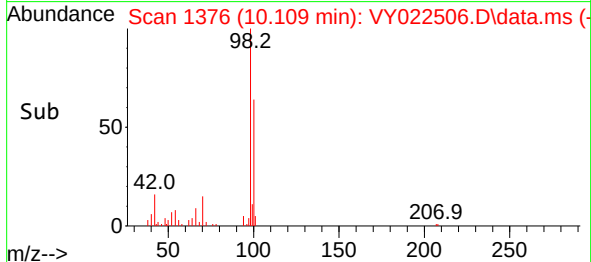
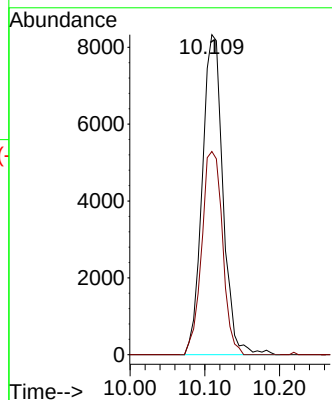
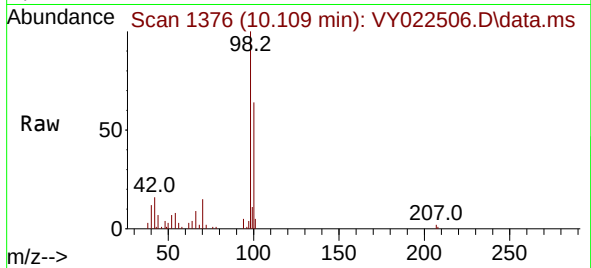




#50
Toluene-d8
Concen: 44.993 ug/l
RT: 10.109 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

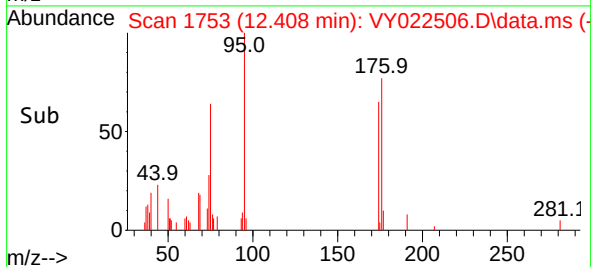
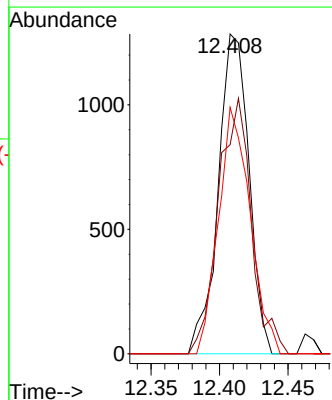
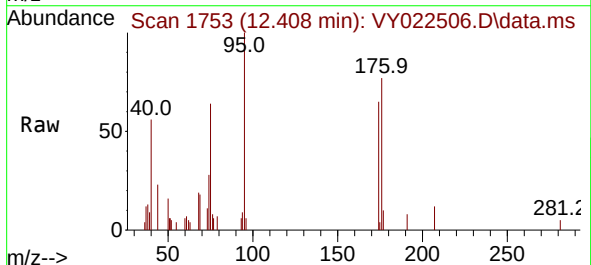
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

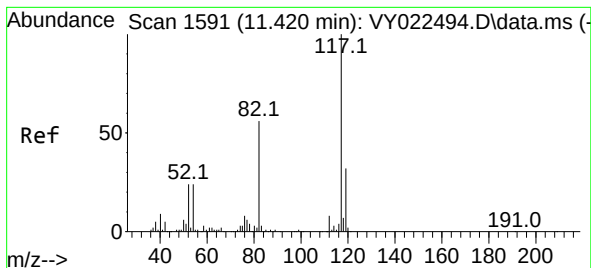
Tgt Ion: 98 Resp: 16023
Ion Ratio Lower Upper
98 100
100 63.7 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 18.915 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 95 Resp: 2007
Ion Ratio Lower Upper
95 100
174 85.4 0.0 170.0
176 79.4 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022506.D

Acq: 02 Jun 2025 17:57

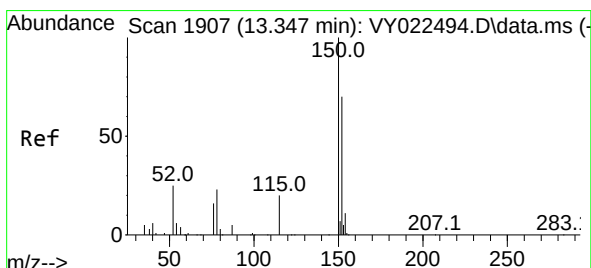
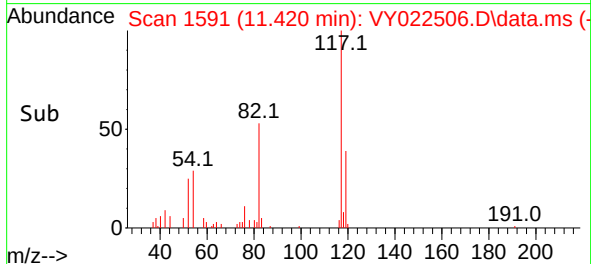
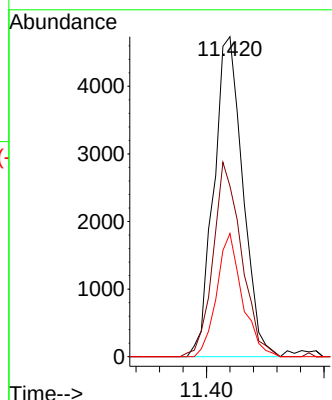
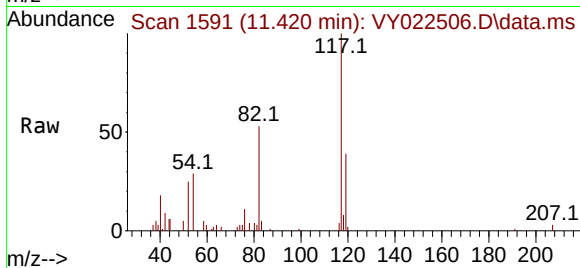
Instrument :

MSVOA_Y

ClientSampleId :

TP-42

Tgt Ion:	117	Resp:	8115
Ion	Ratio	Lower	Upper
117	100		
82	53.3	44.6	66.8
119	38.5	25.4	38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

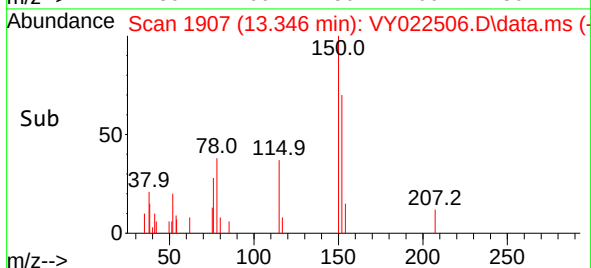
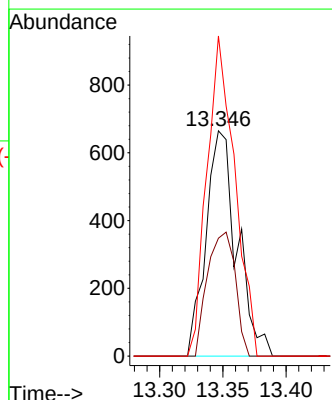
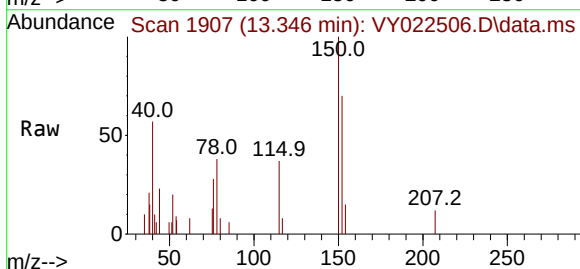
RT: 13.346 min Scan# 1907

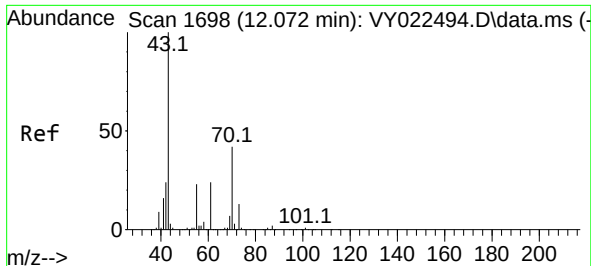
Delta R.T. -0.000 min

Lab File: VY022506.D

Acq: 02 Jun 2025 17:57

Tgt Ion:	152	Resp:	1136
Ion	Ratio	Lower	Upper
152	100		
115	49.2	28.9	86.7
150	127.3	0.0	349.6

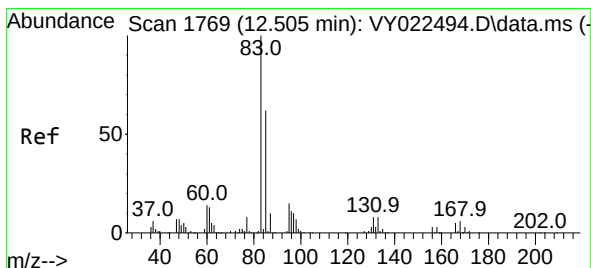
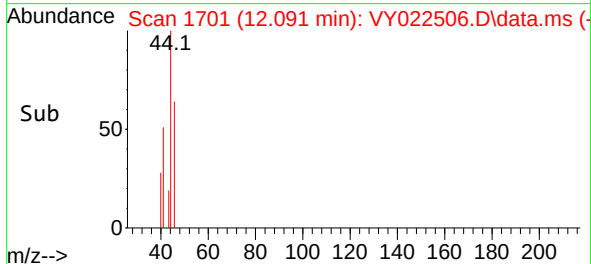
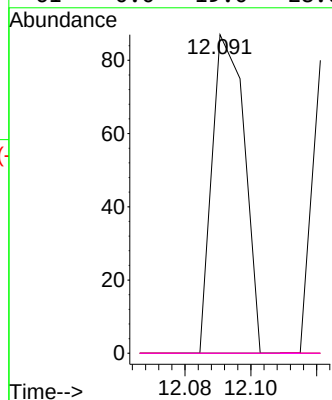
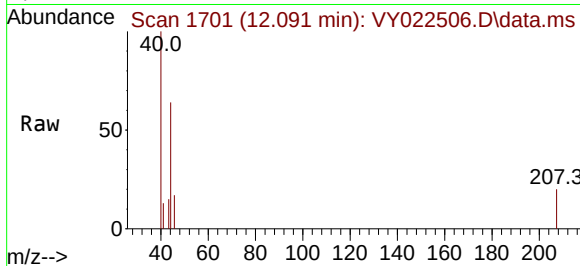




#74
N-amy1 acetate
Concen: 2.507 ug/l
RT: 12.091 min Scan# 1701
Delta R.T. 0.018 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

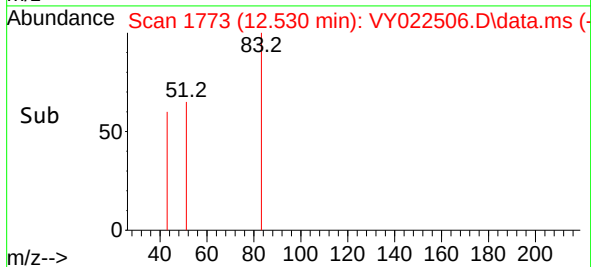
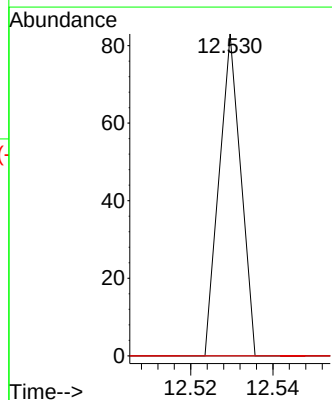
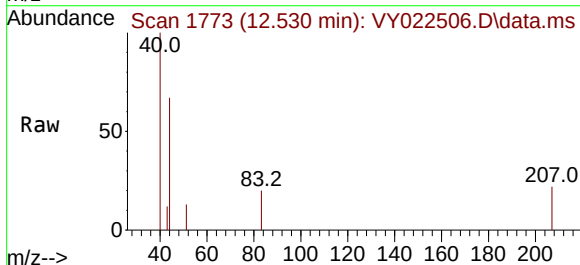
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

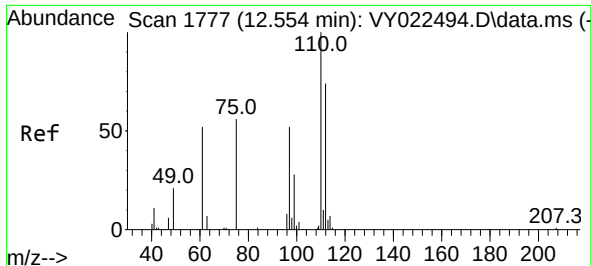
Tgt Ion:	43	Resp:	59
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.2	51.2#
55	0.0	18.2	27.4#
61	0.0	19.0	28.6#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.960 ug/l
RT: 12.530 min Scan# 1773
Delta R.T. 0.024 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion:	83	Resp:	30
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.7#
85	0.0	32.6	97.8#

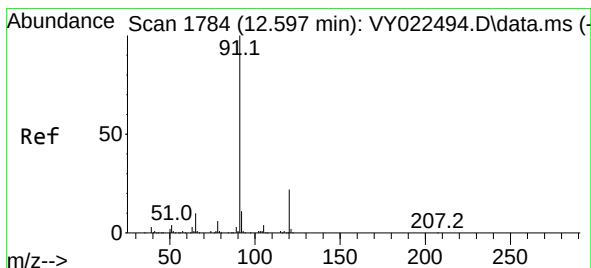
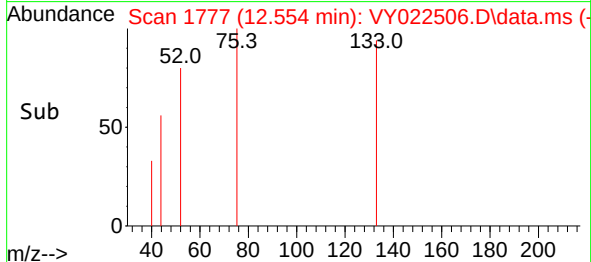
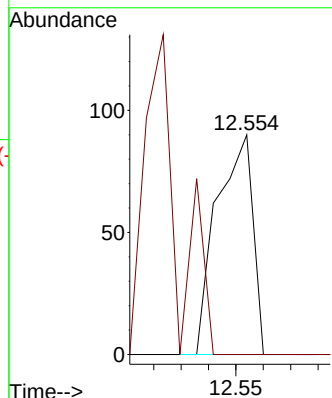
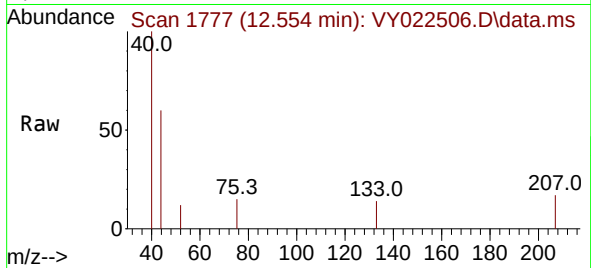




#76
1,2,3-Trichloropropane
Concen: 6.310 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

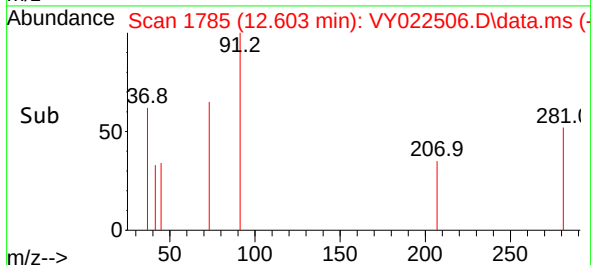
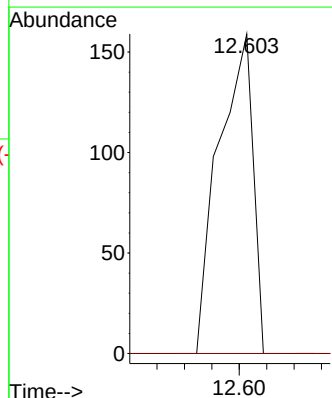
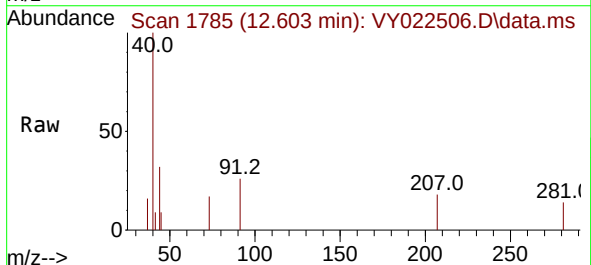
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

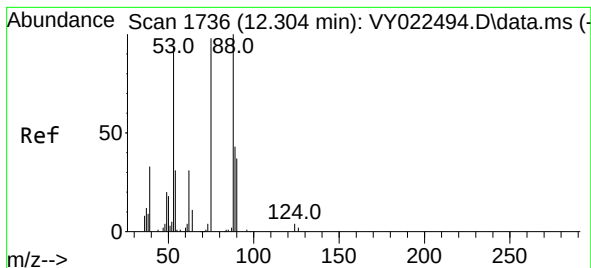
Tgt Ion: 75 Resp: 82
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 1.211 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 91 Resp: 138
Ion Ratio Lower Upper
91 100
120 0.0 10.8 32.4#

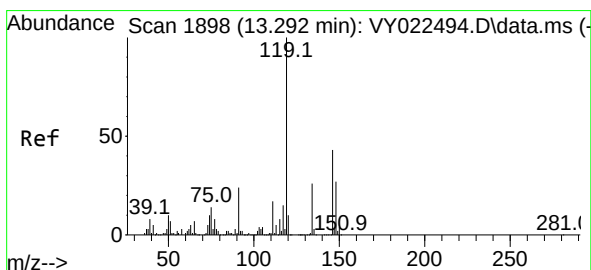
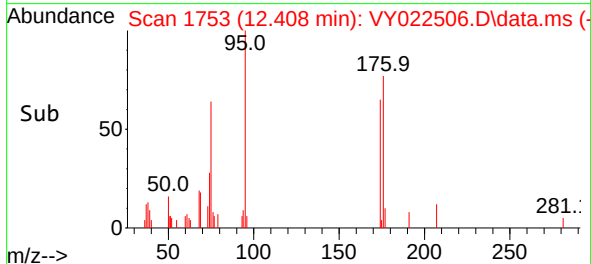
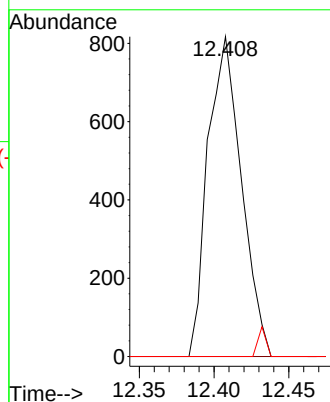
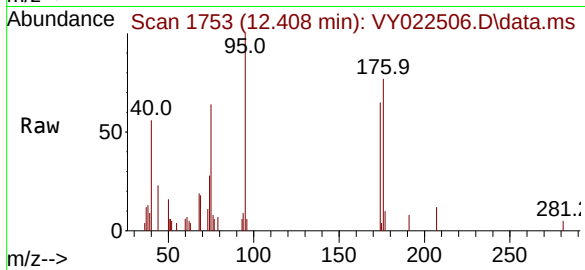




#81
trans-1,4-Dichloro-2-butene
Concen: 236.732 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

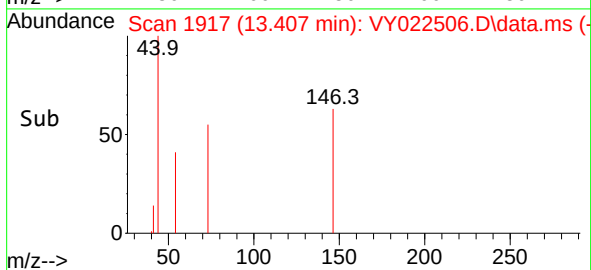
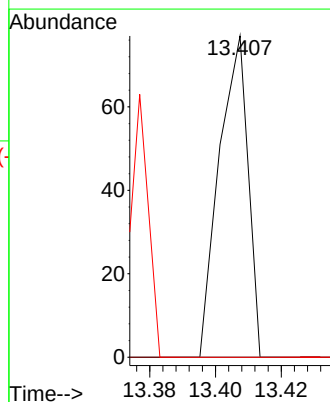
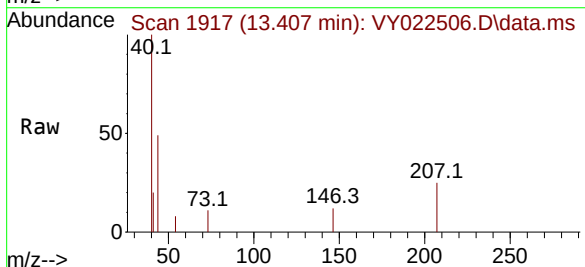
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

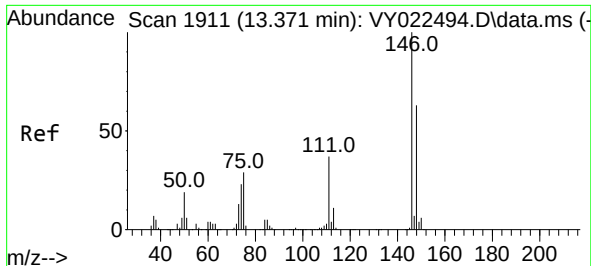
Tgt Ion: 75 Resp: 1274
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 35.7 53.5#



#87
1,3-Dichlorobenzene
Concen: 1.179 ug/l
RT: 13.407 min Scan# 1917
Delta R.T. 0.116 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion:146 Resp: 47
Ion Ratio Lower Upper
146 100
111 0.0 20.1 60.2#
148 0.0 32.1 96.3#

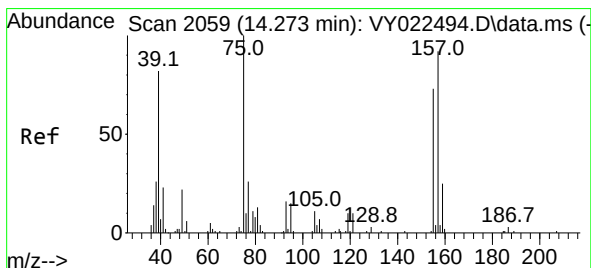
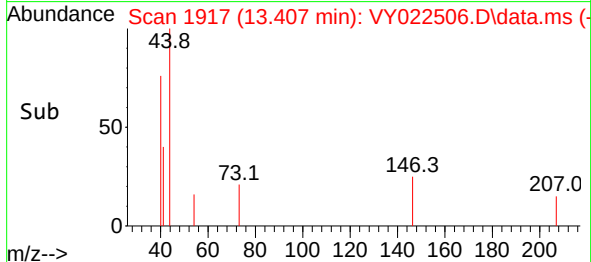
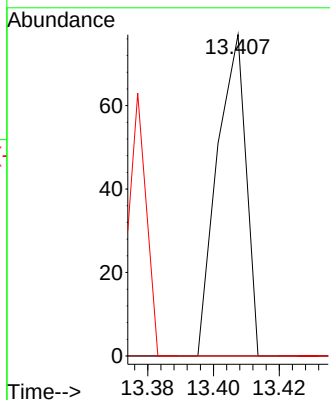
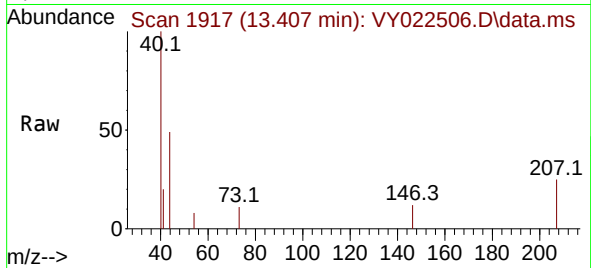




#88
1,4-Dichlorobenzene
Concen: 1.215 ug/l
RT: 13.407 min Scan# 1911
Delta R.T. 0.037 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

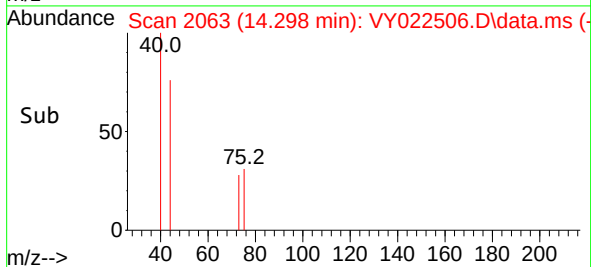
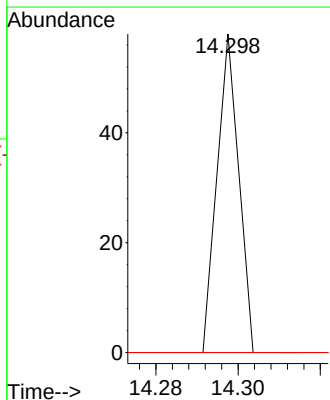
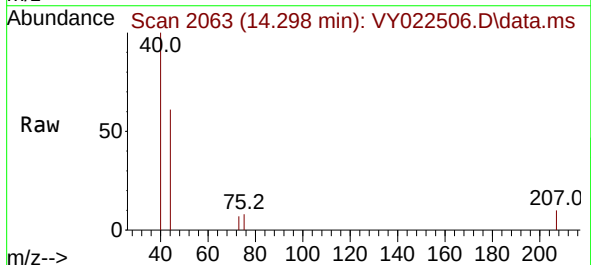
Instrument :
MSVOA_Y
ClientSampleId :
TP-42

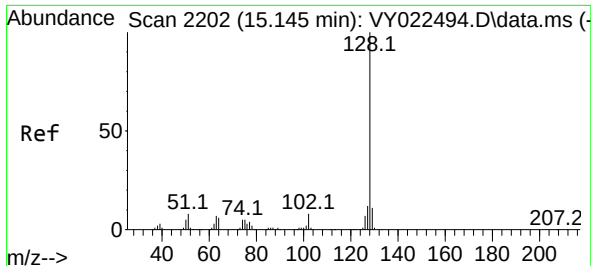
Tgt Ion:146 Resp: 47
Ion Ratio Lower Upper
146 100
111 0.0 19.4 58.2#
148 0.0 31.6 94.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 9.423 ug/l
RT: 14.298 min Scan# 2063
Delta R.T. 0.024 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion: 75 Resp: 21
Ion Ratio Lower Upper
75 100
155 0.0 39.9 119.6#
157 0.0 54.0 162.0#

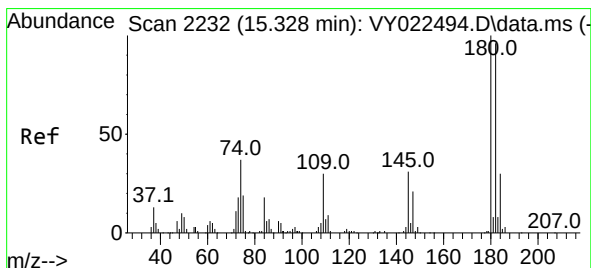
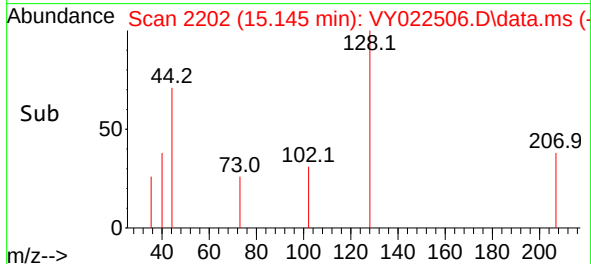
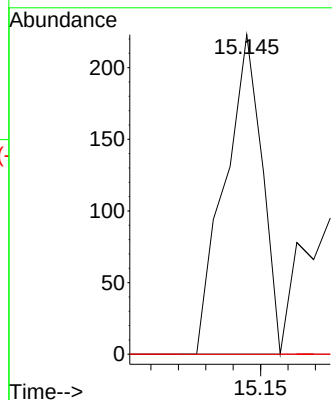
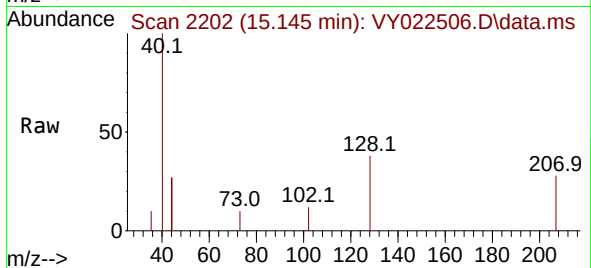




#95
Naphthalene
Concen: 5.926 ug/l
RT: 15.145 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Instrument :
MSVOA_Y
ClientSampleId :
TP-42

Tgt Ion:128 Resp: 210
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 2.338 ug/l
RT: 15.316 min Scan# 2230
Delta R.T. -0.012 min
Lab File: VY022506.D
Acq: 02 Jun 2025 17:57

Tgt Ion:180 Resp: 37
Ion Ratio Lower Upper
180 100
182 213.5 47.1 141.3#
145 0.0 15.2 45.6#

