

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060925\
 Data File : VY022624.D
 Acq On : 09 Jun 2025 12:49
 Operator : SY/MD
 Sample : Q2223-01
 Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-06042025

Quant Time: Jun 10 01:28:04 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)

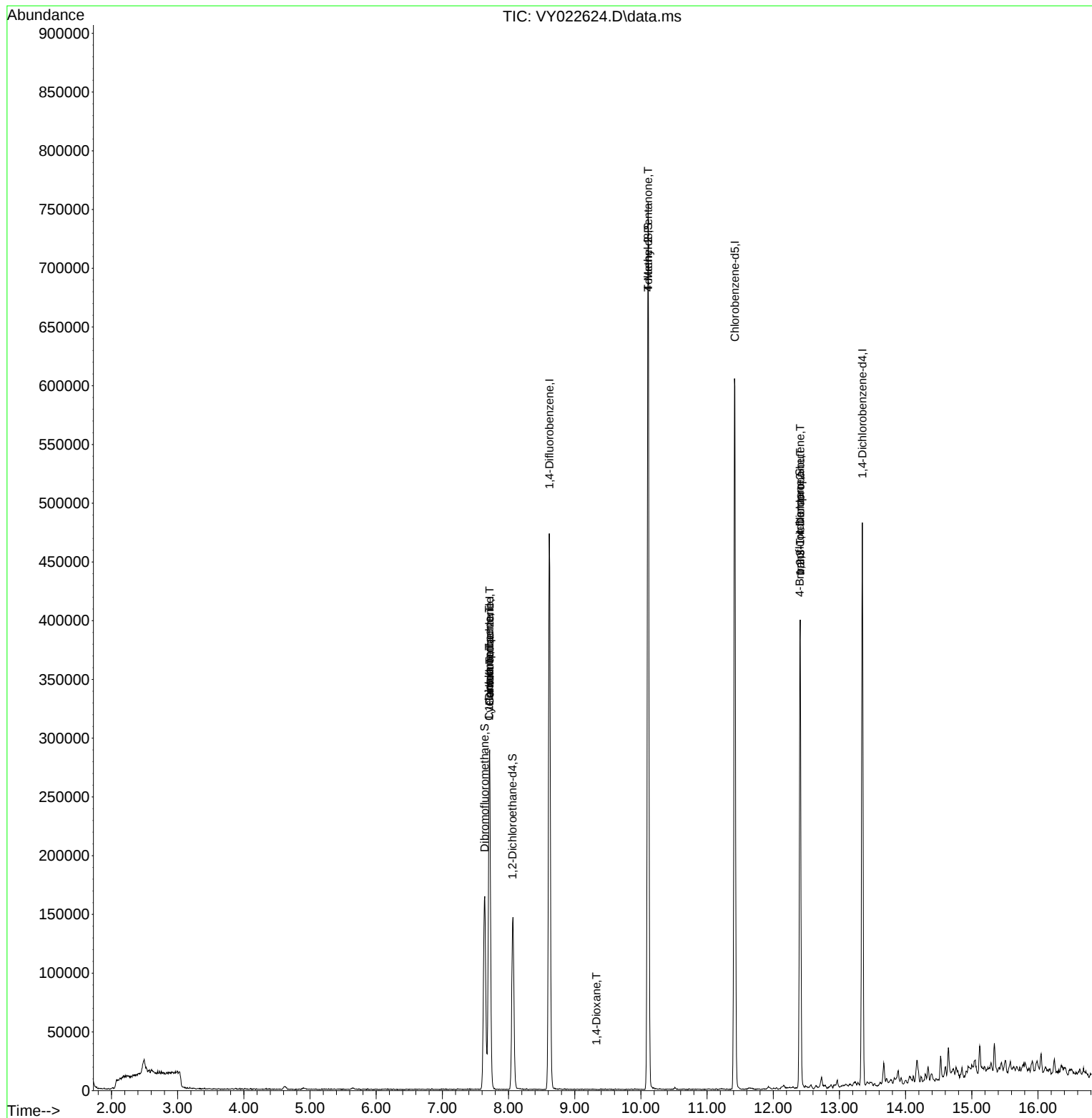
Internal Standards						
1) Pentafluorobenzene	7.713	168	213093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	385481	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	302626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	106626	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	113395	47.578	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.160%
35) Dibromofluoromethane	7.640	113	116189	50.498	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.000%
50) Toluene-d8	10.109	98	458692	49.338	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.680%
62) 4-Bromofluorobenzene	12.402	95	109498	39.530	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	79.060%
Target Compounds						
					Qvalue	
31) Cyclohexane	7.707	56	6054	1.322	ug/l #	25
36) 1,1-Dichloropropene	7.707	75	19577	5.242	ug/l #	50
38) Carbon Tetrachloride	7.713	117	22639	5.910	ug/l #	16
49) 1,4-Dioxane	9.329	88	37	2.130	ug/l #	31
51) 4-Methyl-2-Pentanone	10.109	43	2447	1.365	ug/l #	1
76) 1,2,3-Trichloropropane	12.408	75	64567	52.931	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	64567	127.824	ug/l #	10

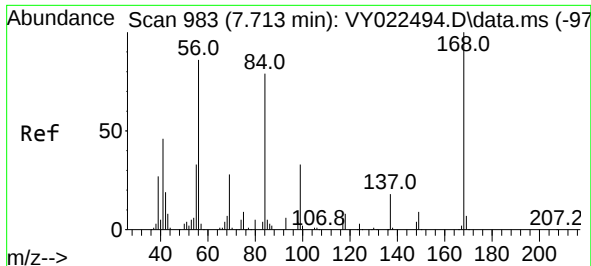
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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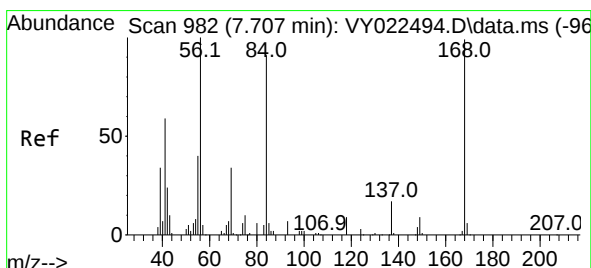
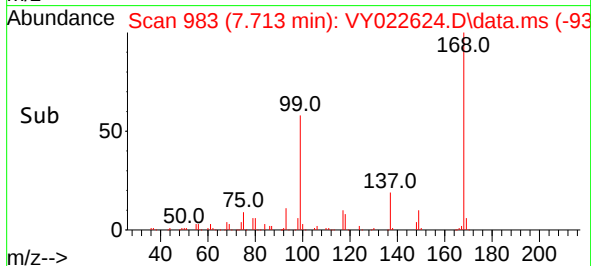
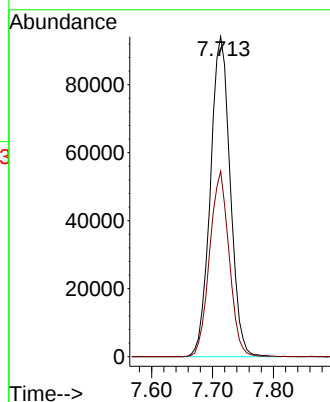
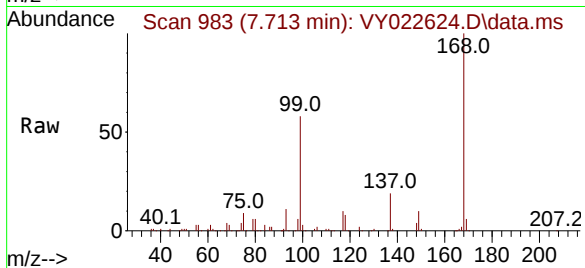




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

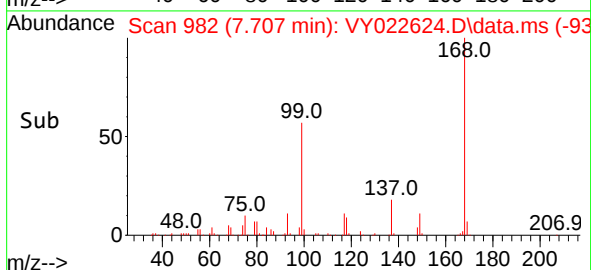
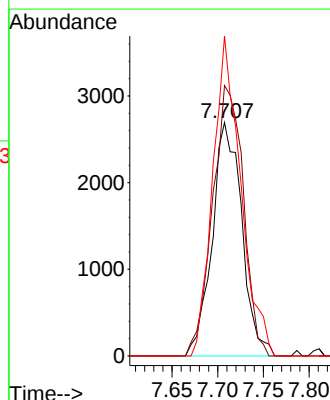
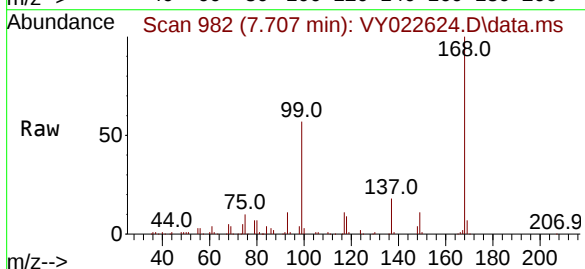
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-06042025

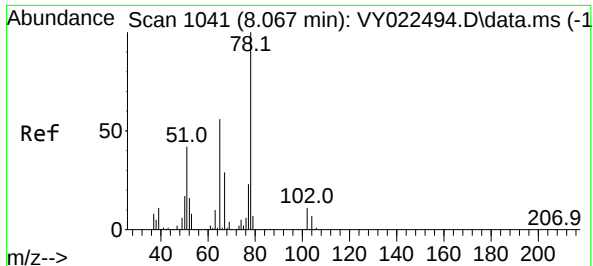
Tgt Ion:168 Resp: 213093
Ion Ratio Lower Upper
168 100
99 57.9 44.3 66.5



#31
Cyclohexane
Concen: 1.322 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

Tgt Ion: 56 Resp: 6054
Ion Ratio Lower Upper
56 100
69 115.8 27.0 40.6#
84 137.1 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 47.578 ug/l

RT: 8.061 min Scan# 1104

Delta R.T. -0.006 min

Lab File: VY022624.D

Acq: 09 Jun 2025 12:49

Instrument :

MSVOA_Y

ClientSampleId :

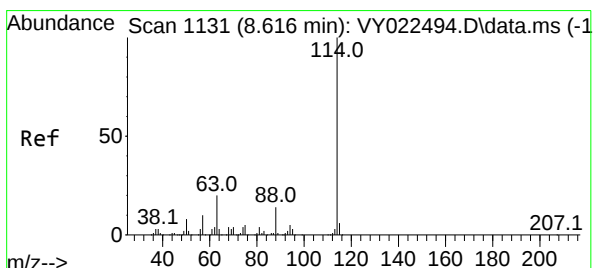
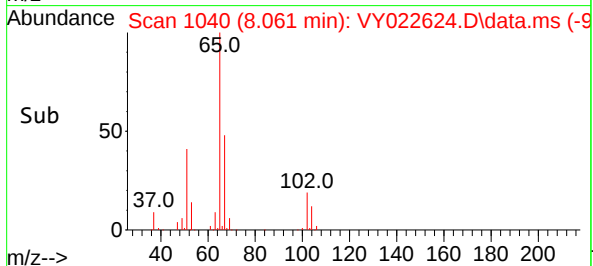
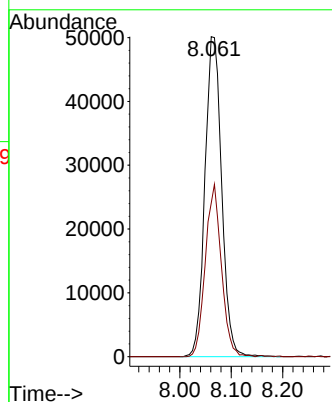
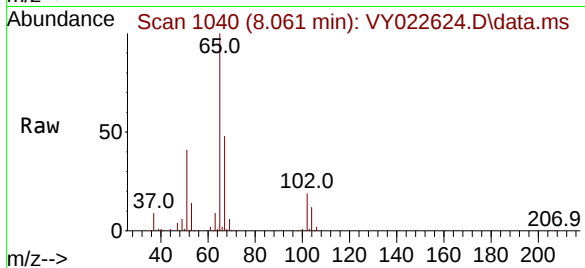
HR-01-06042025

Tgt Ion: 65 Resp: 113395

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022624.D

Acq: 09 Jun 2025 12:49

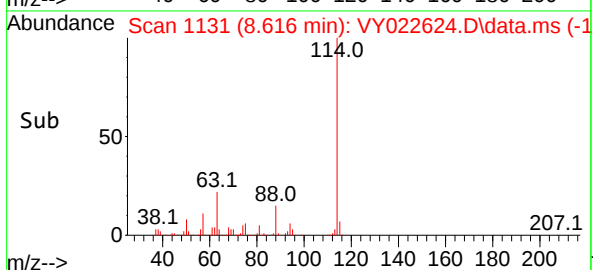
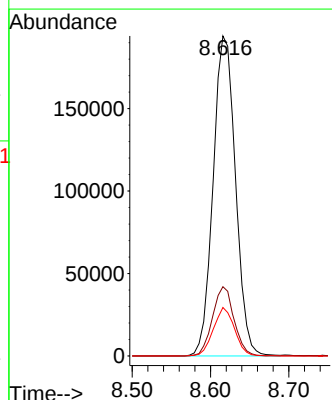
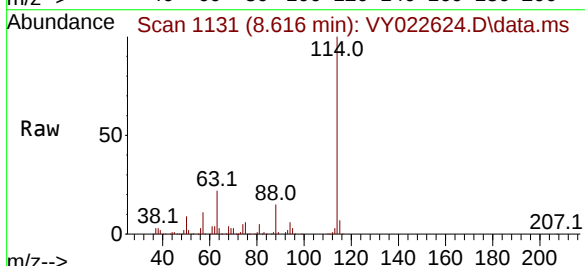
Tgt Ion: 114 Resp: 385481

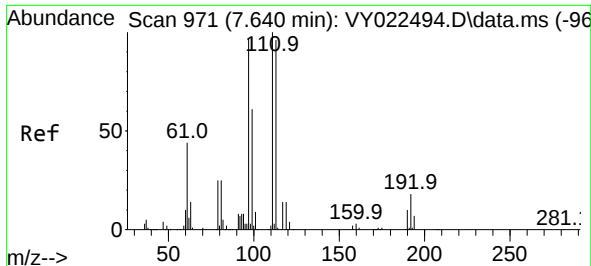
Ion Ratio Lower Upper

114 100

63 21.6 0.0 40.8

88 15.1 0.0 27.8





#35

Dibromofluoromethane

Concen: 50.498 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY022624.D

Acq: 09 Jun 2025 12:49

Instrument :

MSVOA_Y

ClientSampleId :

HR-01-06042025

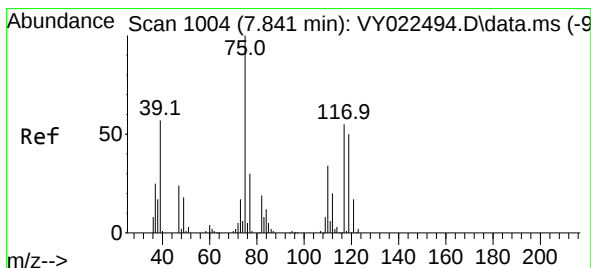
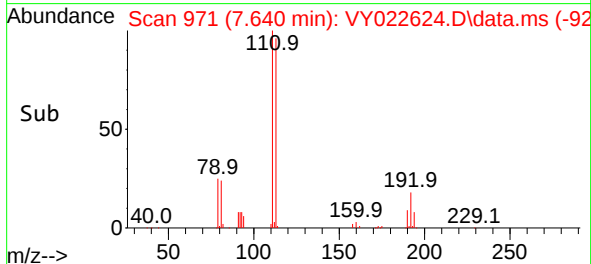
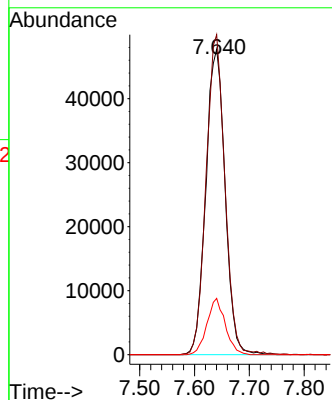
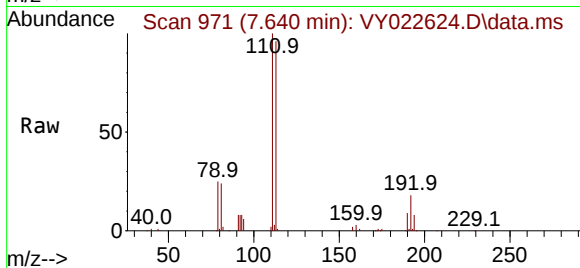
Tgt Ion:113 Resp: 116189

Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

192 17.6 14.2 21.2



#36

1,1-Dichloropropene

Concen: 5.242 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY022624.D

Acq: 09 Jun 2025 12:49

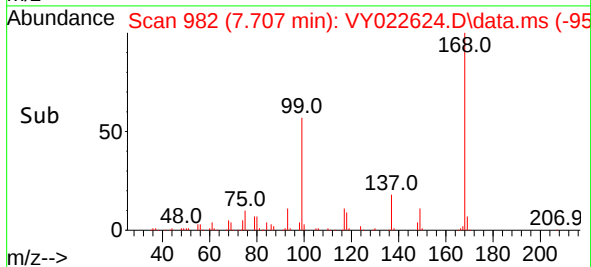
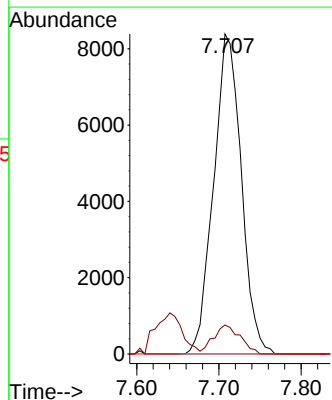
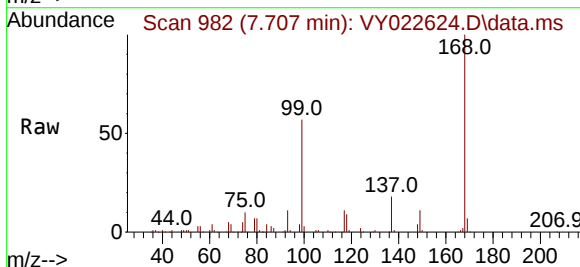
Tgt Ion: 75 Resp: 19577

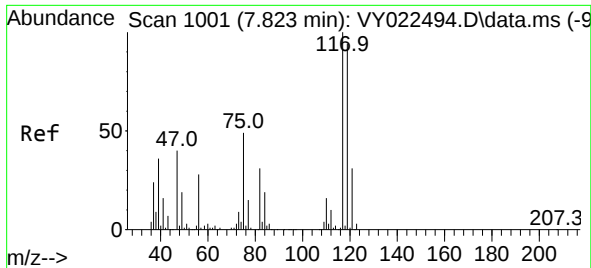
Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.7#

77 0.0 24.8 37.2#

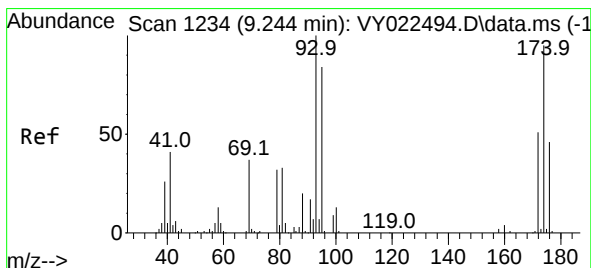
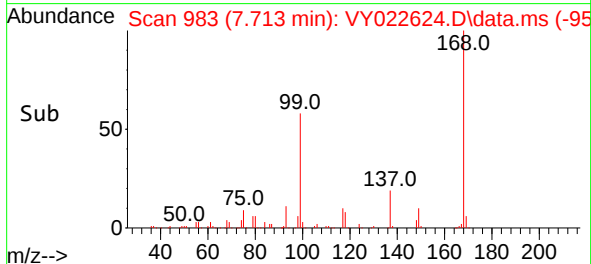
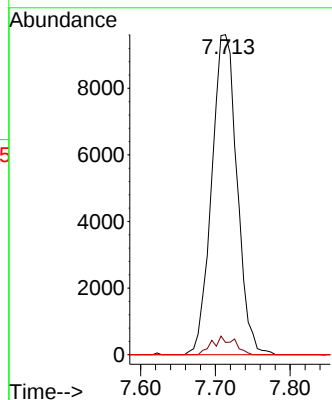
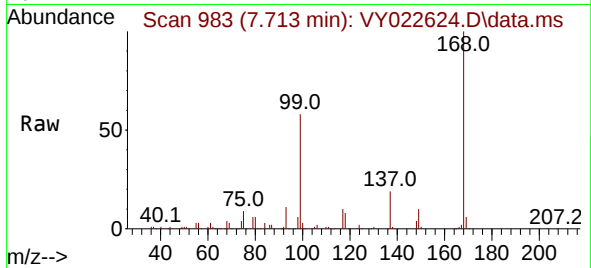




#38
Carbon Tetrachloride
Concen: 5.910 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

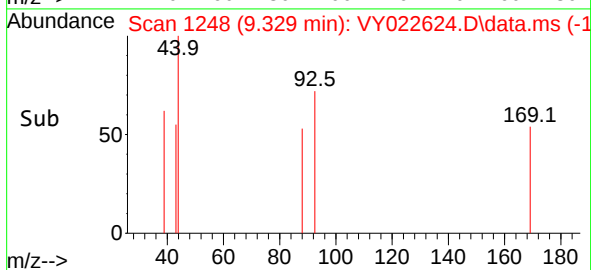
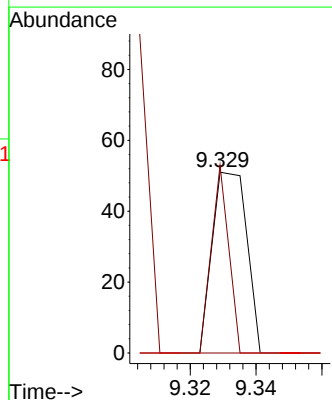
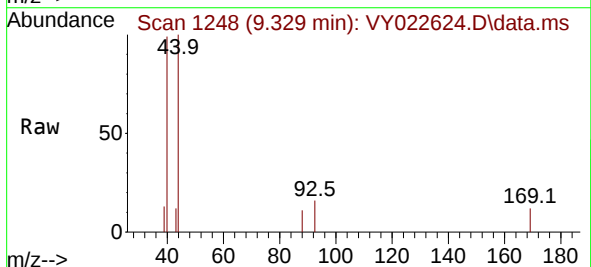
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-06042025

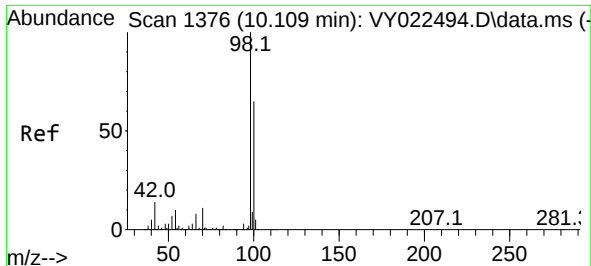
Tgt Ion:117 Resp: 22639
Ion Ratio Lower Upper
117 100
119 3.8 75.0 112.6#
121 0.0 25.0 37.4#



#49
1,4-Dioxane
Concen: 2.130 ug/l
RT: 9.329 min Scan# 1248
Delta R.T. 0.085 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

Tgt Ion: 88 Resp: 37
Ion Ratio Lower Upper
88 100
43 51.4 25.4 38.2#
58 0.0 54.9 82.3#

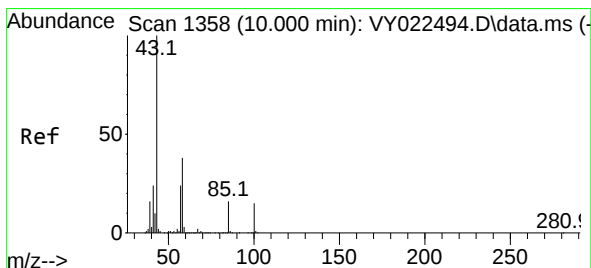
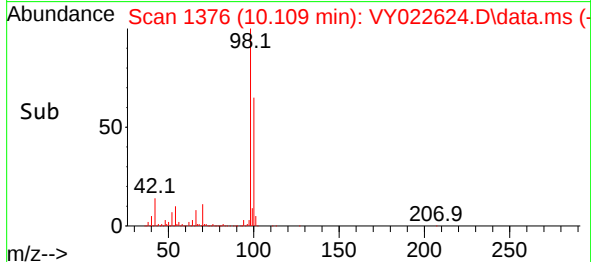
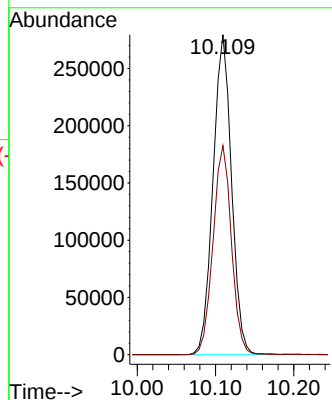
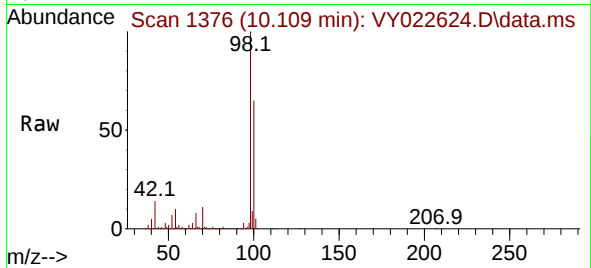




#50
Toluene-d8
Concen: 49.338 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

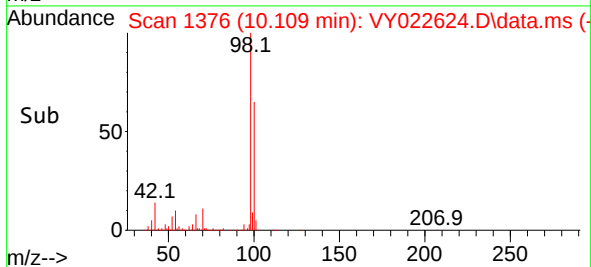
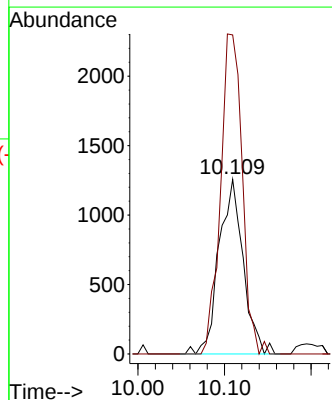
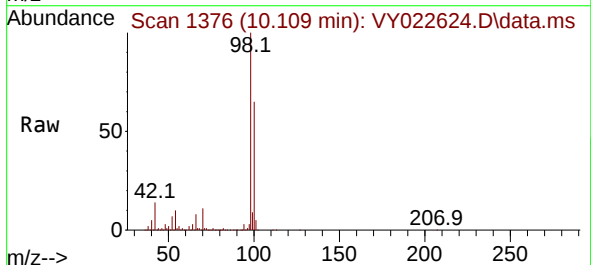
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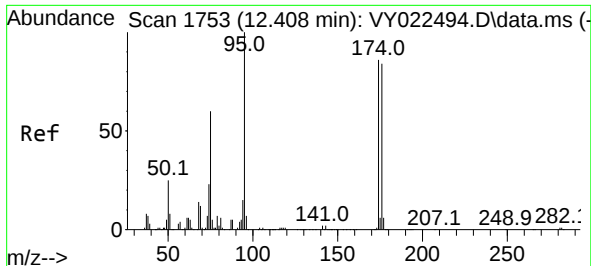
Tgt Ion: 98 Resp: 458692
Ion Ratio Lower Upper
98 100
100 64.9 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.365 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.110 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

Tgt Ion: 43 Resp: 2447
Ion Ratio Lower Upper
43 100
58 164.1 30.4 45.6#

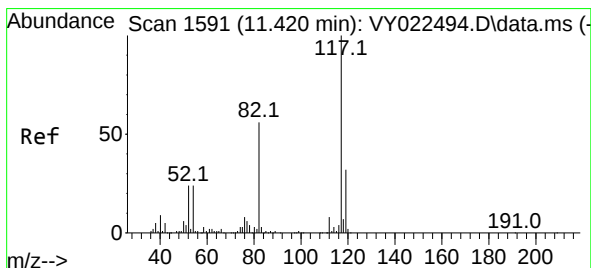
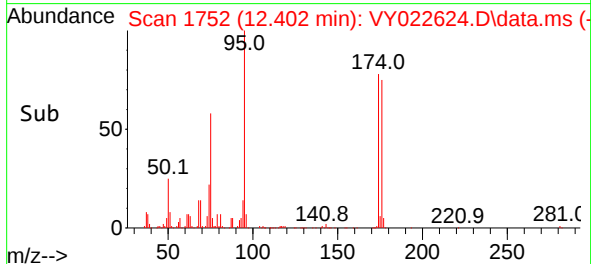
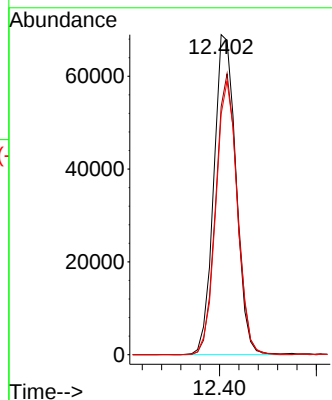
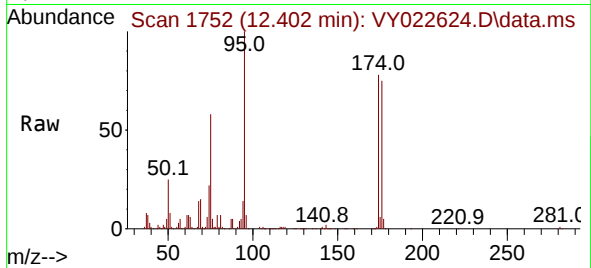




#62
4-Bromofluorobenzene
Concen: 39.530 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

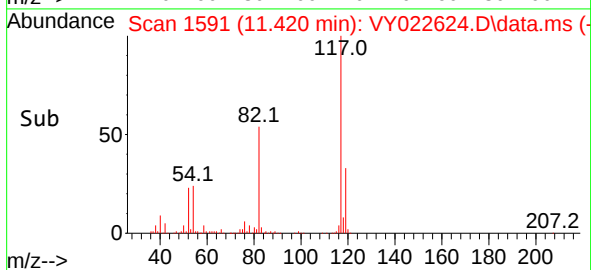
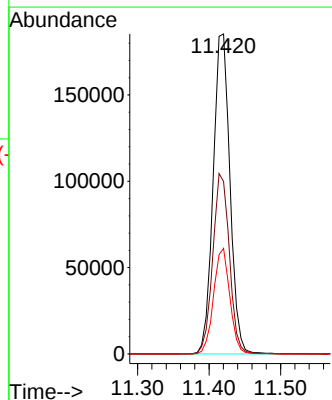
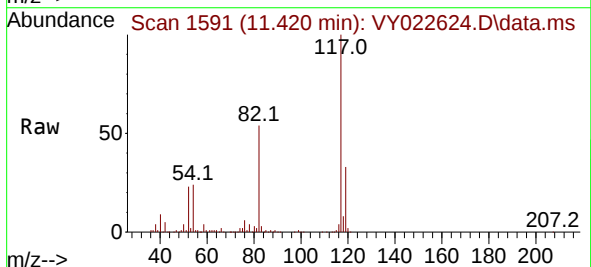
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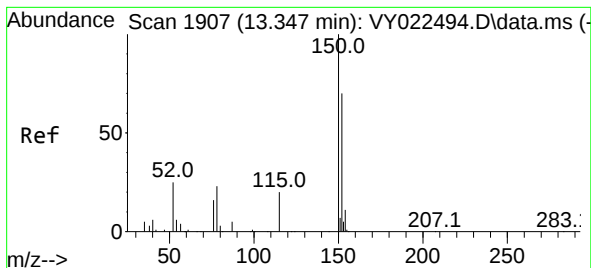
Tgt Ion: 95 Resp: 109498
Ion Ratio Lower Upper
95 100
174 85.3 0.0 170.0
176 83.1 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

Tgt Ion: 117 Resp: 302626
Ion Ratio Lower Upper
117 100
82 53.9 44.6 66.8
119 33.0 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022624.D

Acq: 09 Jun 2025 12:49

Instrument :

MSVOA_Y

ClientSampleId :

HR-01-06042025

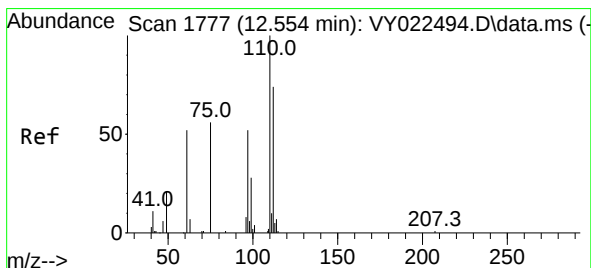
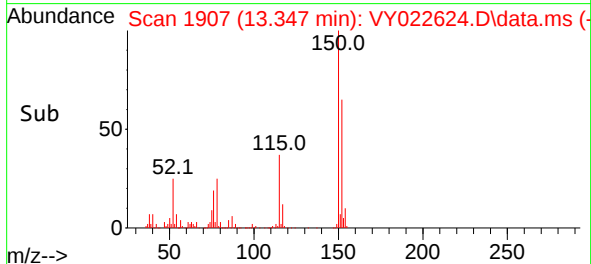
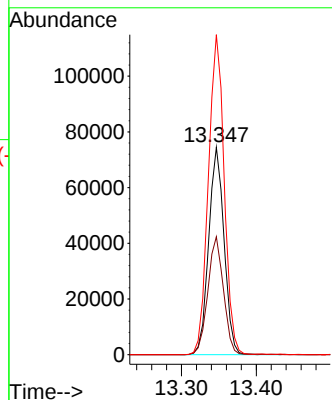
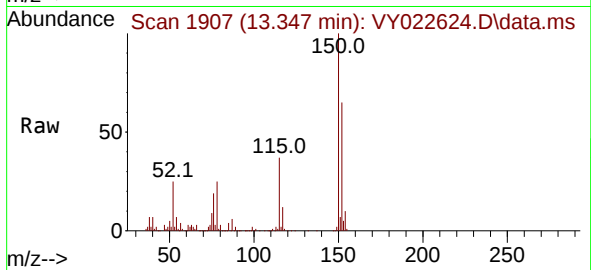
Tgt Ion:152 Resp: 106626

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.7

150 158.3 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 52.931 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY022624.D

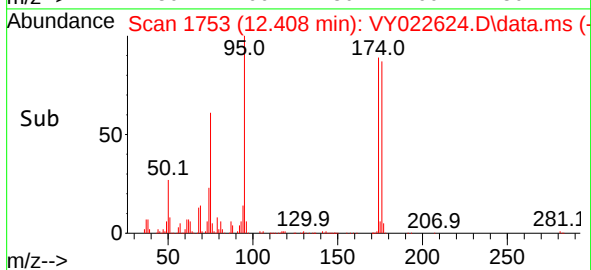
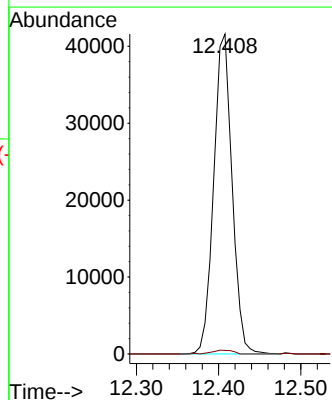
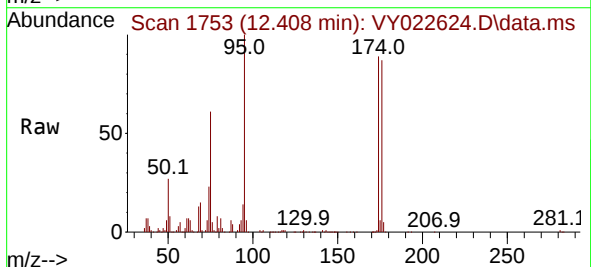
Acq: 09 Jun 2025 12:49

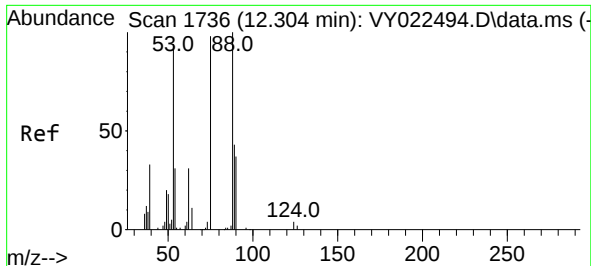
Tgt Ion: 75 Resp: 64567

Ion Ratio Lower Upper

75 100

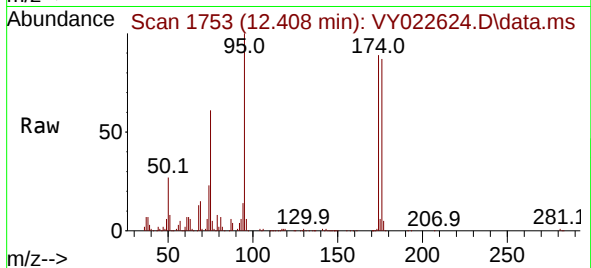
77 1.4 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.824 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY022624.D
 Acq: 09 Jun 2025 12:49

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-06042025



Tgt Ion: 75 Resp: 64567
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.5 117.7#
 89 0.0 35.7 53.5#

