

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060525\
 Data File : VY022569.D
 Acq On : 05 Jun 2025 13:09
 Operator : SY/MD
 Sample : Q2219-01
 Misc : 5.35g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11995

Quant Time: Jun 06 01:23:48 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)

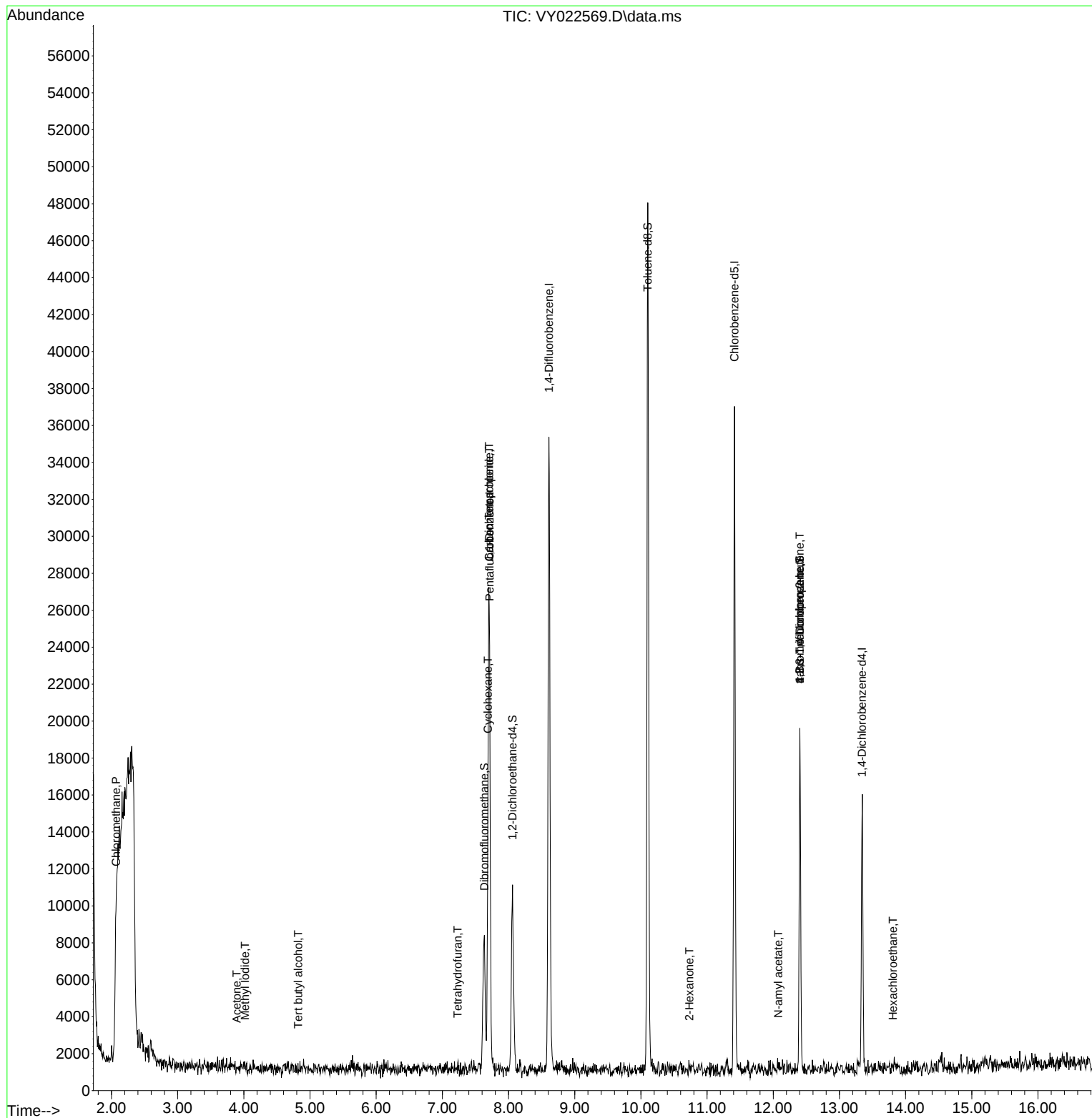
Internal Standards						
1) Pentafluorobenzene	7.713	168	18823	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	28733	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	16584	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	3426	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	7514	35.692	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	71.380%
35) Dibromofluoromethane	7.634	113	5276	30.764	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	61.520%
50) Toluene-d8	10.103	98	29639	42.771	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.540%
62) 4-Bromofluorobenzene	12.402	95	4973	24.086	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	48.180%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	835	1.677	ug/l #	42
10) Methyl Iodide	4.019	142	446	1.996	ug/l #	51
11) Tert butyl alcohol	4.824	59	29	1.929	ug/l #	73
16) Acetone	3.891	43	72	1.684	ug/l #	45
29) Tetrahydrofuran	7.232	42	76	1.911	ug/l #	31
31) Cyclohexane	7.689	56	736	1.819	ug/l #	65
36) 1,1-Dichloropropene	7.707	75	1762	6.330	ug/l #	53
38) Carbon Tetrachloride	7.707	117	2070	7.249	ug/l #	13
59) 2-Hexanone	10.731	43	173	1.935	ug/l #	24
74) N-amyl acetate	12.078	43	94	1.324	ug/l #	74
76) 1,2,3-Trichloropropane	12.402	75	2952	75.316	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	2952	181.884	ug/l #	10
90) Hexachloroethane	13.810	117	72	1.478	ug/l #	16

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

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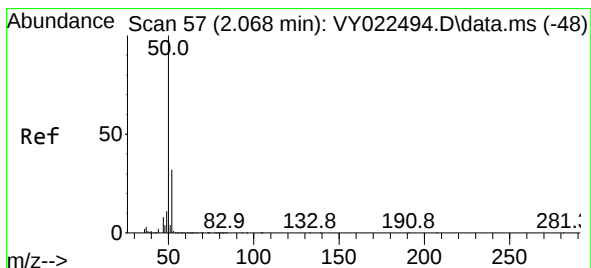
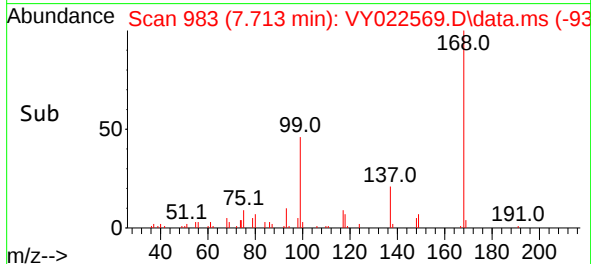
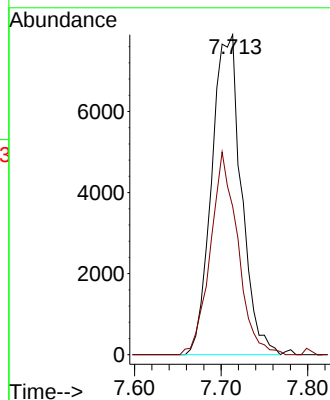
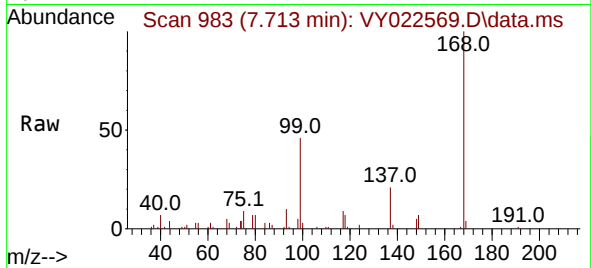




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

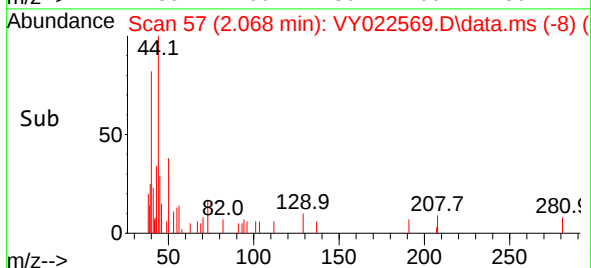
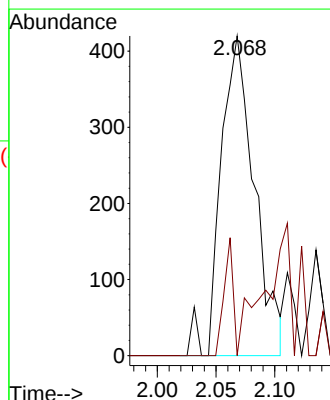
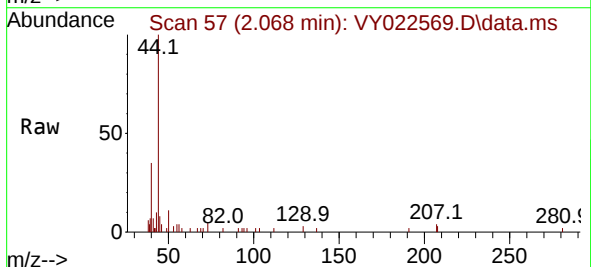
Instrument :
MSVOA_Y
ClientSampleId :
72-11995

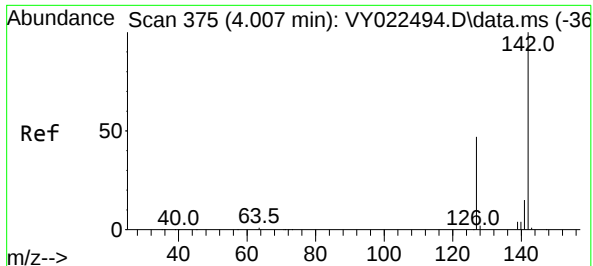
Tgt Ion:168 Resp: 18823
Ion Ratio Lower Upper
168 100
99 46.3 44.3 66.5



#3
Chloromethane
Concen: 1.677 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion: 50 Resp: 835
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

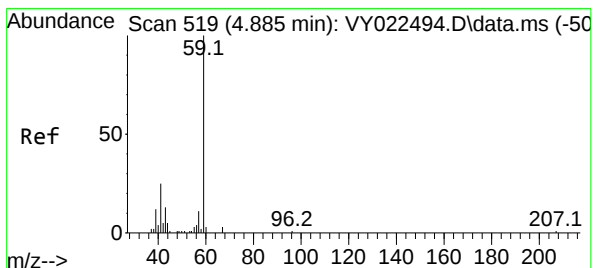
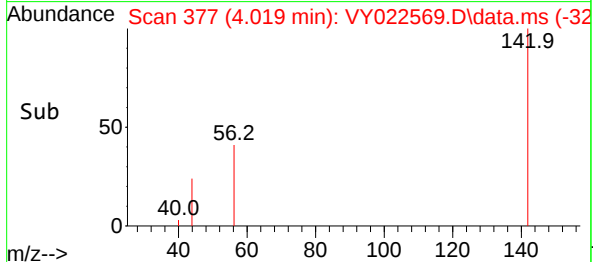
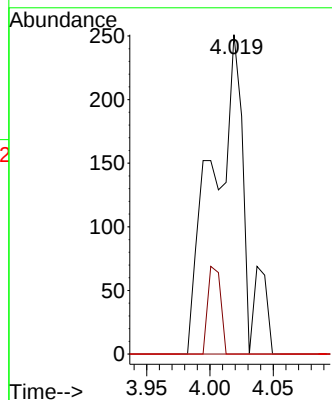
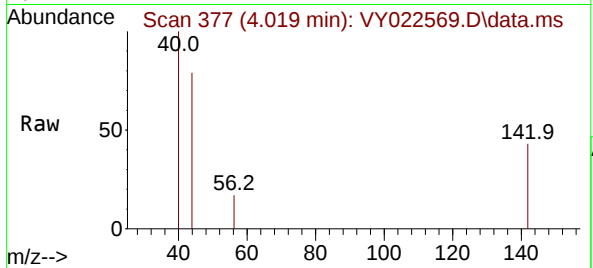




#10
Methyl Iodide
Concen: 1.996 ug/l
RT: 4.019 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

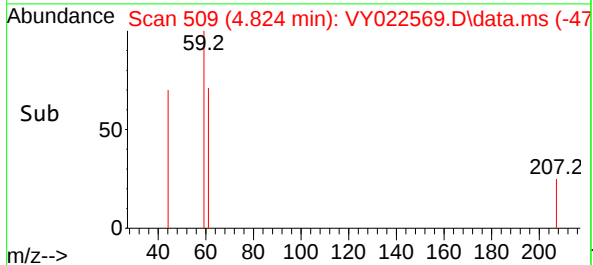
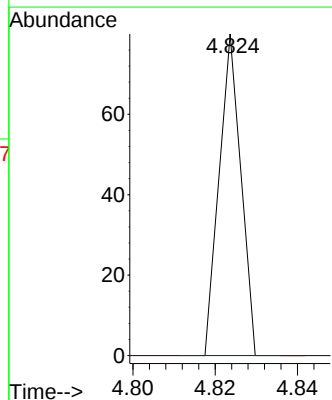
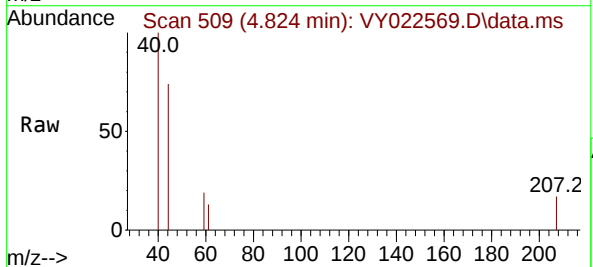
Instrument :
MSVOA_Y
ClientSampleId :
72-11995

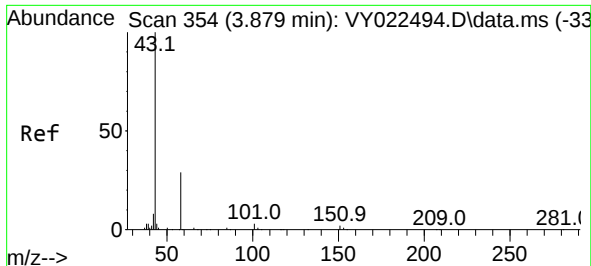
Tgt Ion:142 Resp: 446
Ion Ratio Lower Upper
142 100
127 11.0 37.1 55.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.929 ug/l
RT: 4.824 min Scan# 509
Delta R.T. -0.061 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion: 59 Resp: 29
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

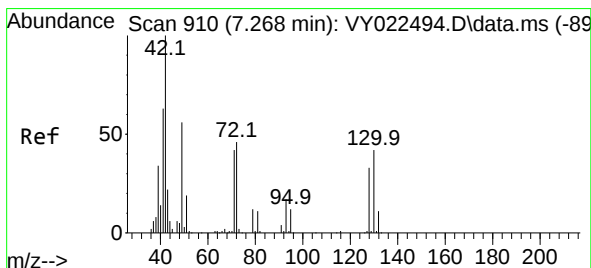
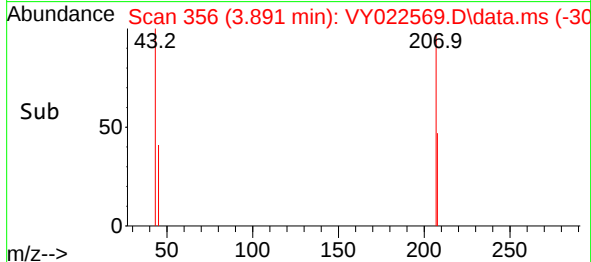
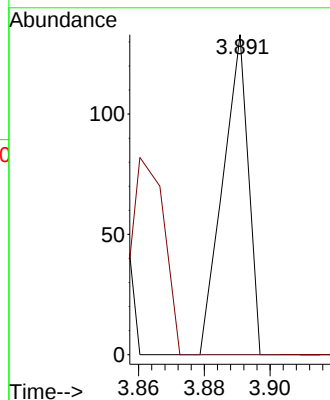
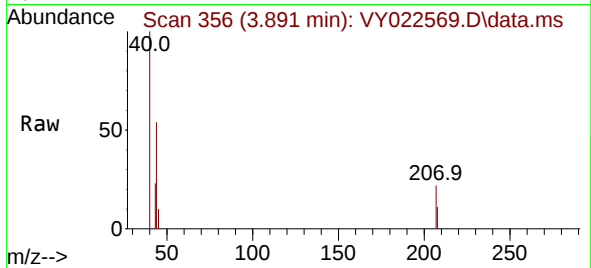




#16
Acetone
Concen: 1.684 ug/l
RT: 3.891 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

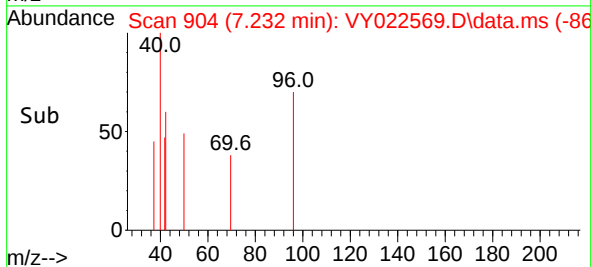
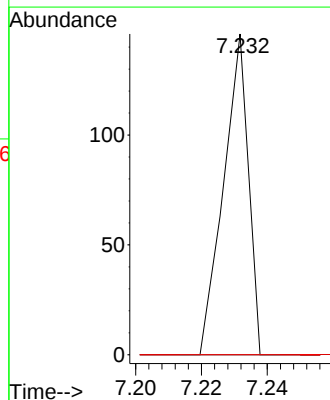
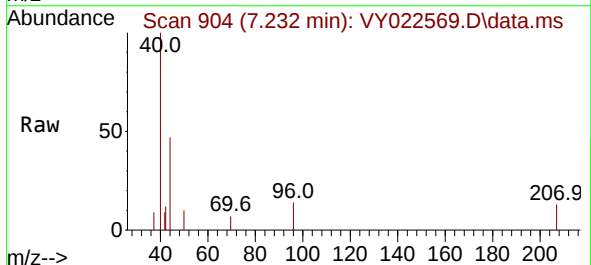
Instrument :
MSVOA_Y
ClientSampleId :
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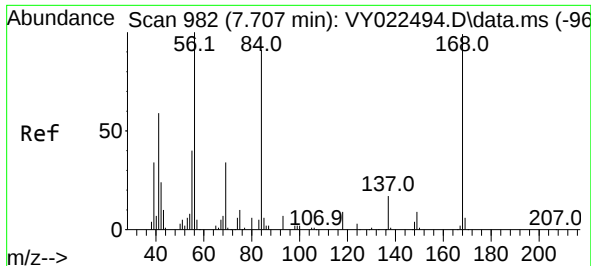
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#



#29
Tetrahydrofuran
Concen: 1.911 ug/l
RT: 7.232 min Scan# 904
Delta R.T. -0.037 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion: 42 Resp: 76
Ion Ratio Lower Upper
42 100
72 0.0 37.4 56.2#
71 0.0 34.2 51.2#

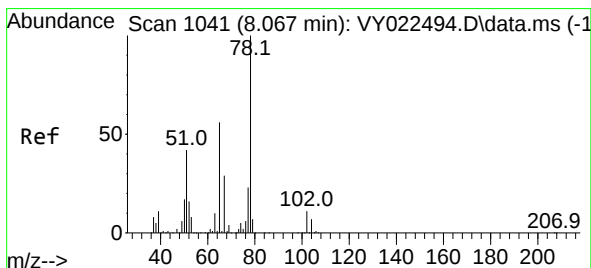
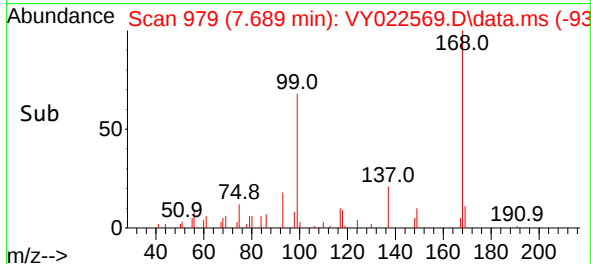
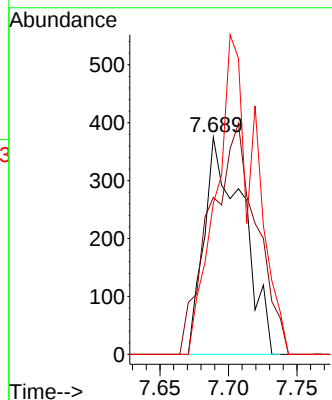
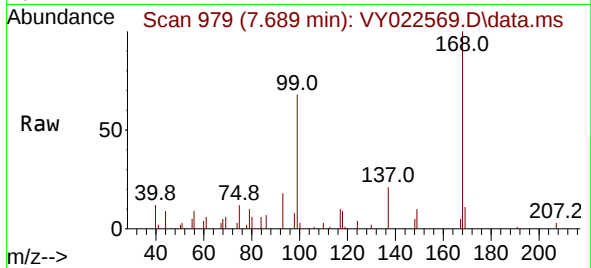




#31
Cyclohexane
Concen: 1.819 ug/l
RT: 7.689 min Scan# 91
Delta R.T. -0.018 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

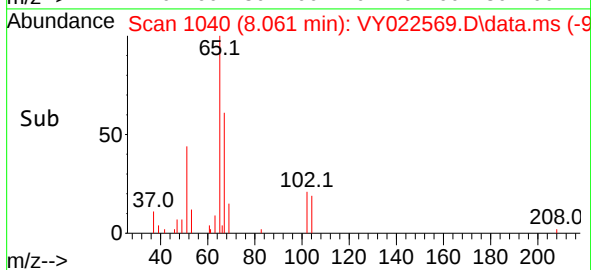
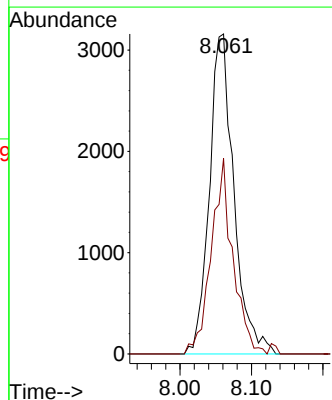
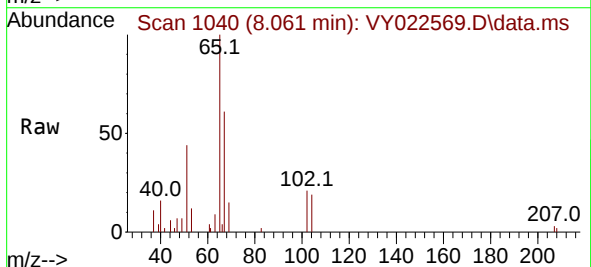
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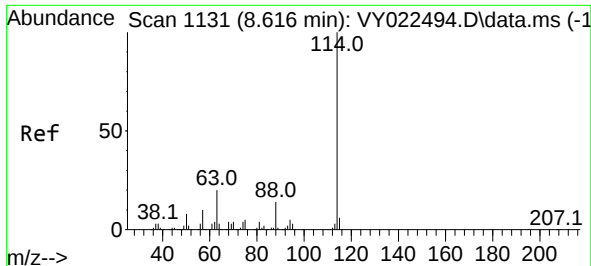
Tgt Ion: 56 Resp: 736
Ion Ratio Lower Upper
56 100
69 72.3 27.0 40.6#
84 69.6 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 35.692 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion: 65 Resp: 7514
Ion Ratio Lower Upper
65 100
67 54.0 0.0 103.4

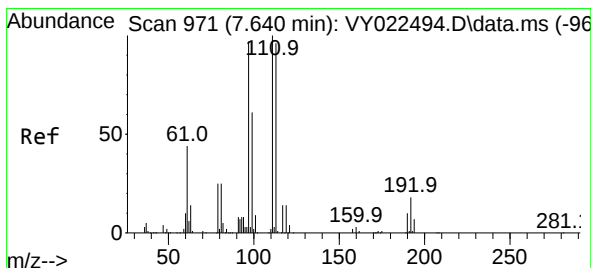
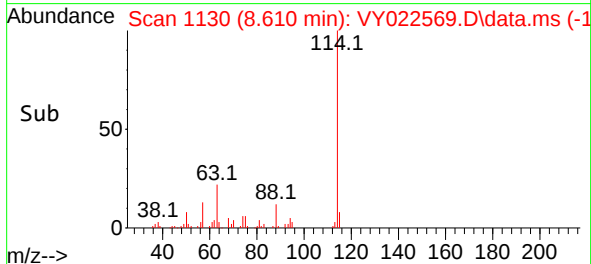
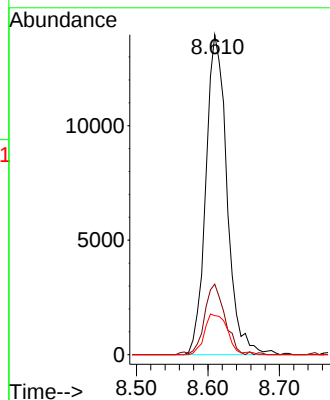
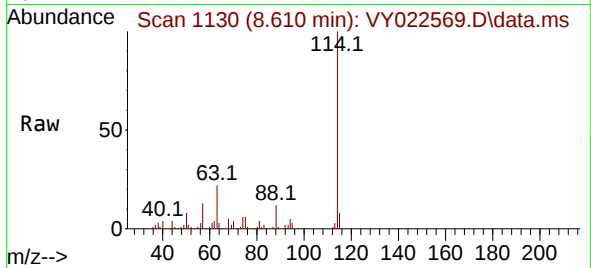




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1131
Delta R.T. -0.006 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

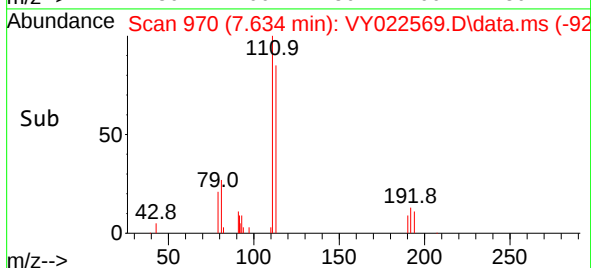
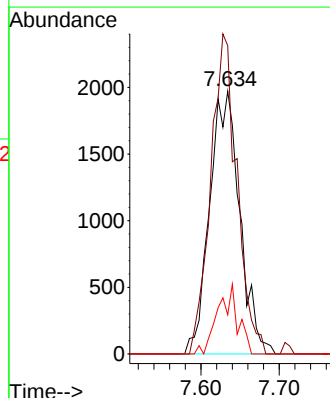
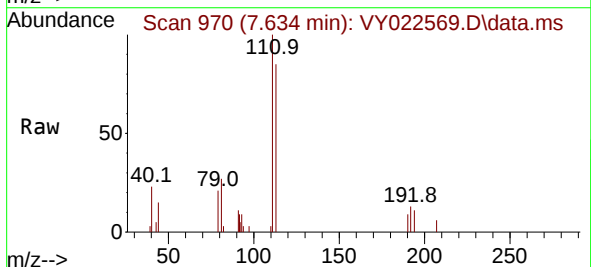
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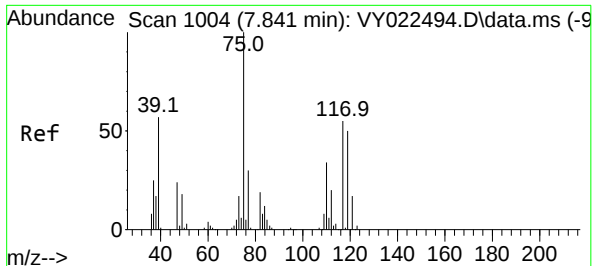
Tgt Ion:	114	Resp:	28733
Ion Ratio	Lower	Upper	
114	100		
63	22.1	0.0	40.8
88	12.2	0.0	27.8



#35
Dibromofluoromethane
Concen: 30.764 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion:	113	Resp:	5276
Ion Ratio	Lower	Upper	
113	100		
111	106.0	81.1	121.7
192	17.6	14.2	21.2

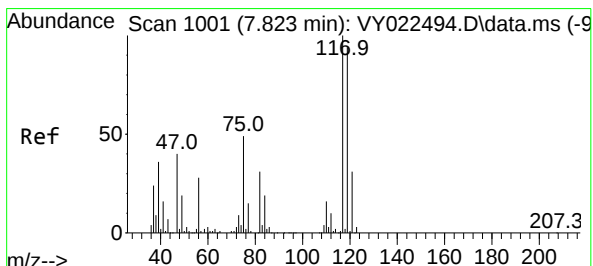
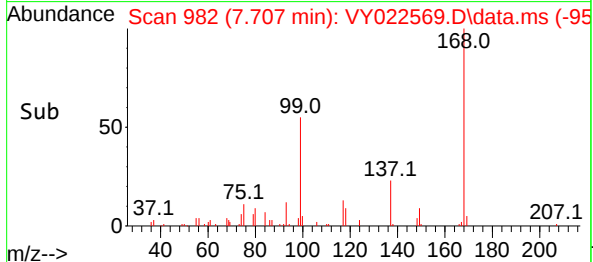
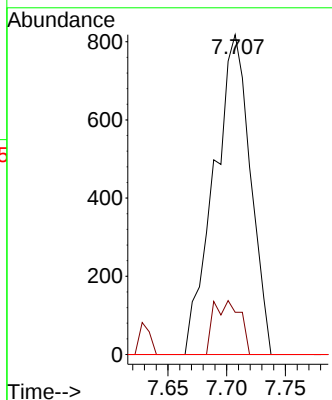
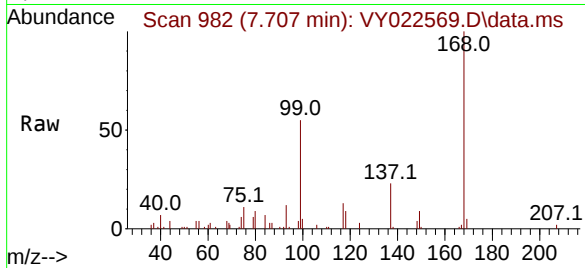




#36
 1,1-Dichloropropene
 Concen: 6.330 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.134 min
 Lab File: VY022569.D
 Acq: 05 Jun 2025 13:09

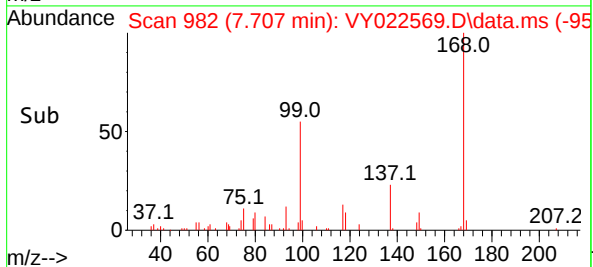
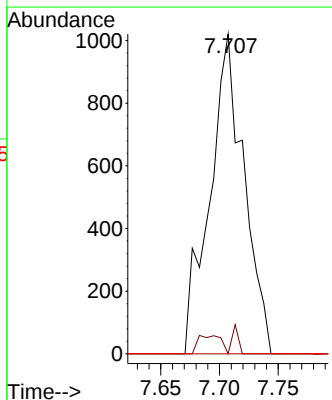
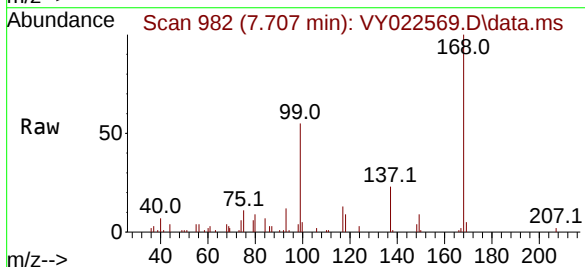
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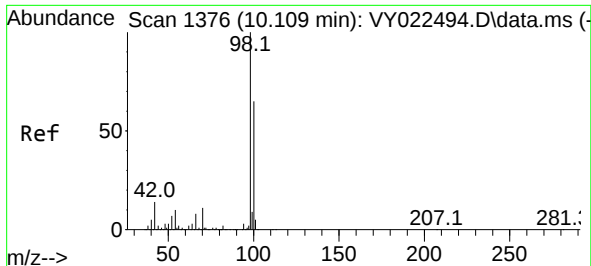
Tgt Ion: 75 Resp: 1762
 Ion Ratio Lower Upper
 75 100
 110 12.3 16.9 50.7#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.249 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.116 min
 Lab File: VY022569.D
 Acq: 05 Jun 2025 13:09

Tgt Ion: 117 Resp: 2070
 Ion Ratio Lower Upper
 117 100
 119 0.0 75.0 112.6#
 121 0.0 25.0 37.4#

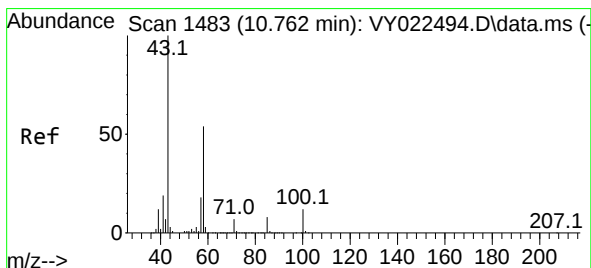
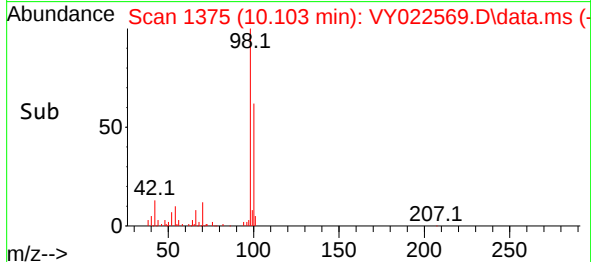
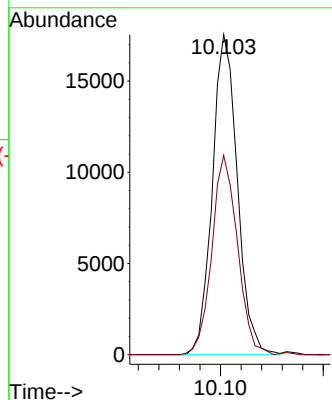
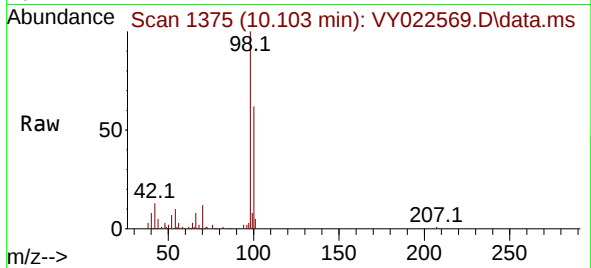




#50
Toluene-d8
Concen: 42.771 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

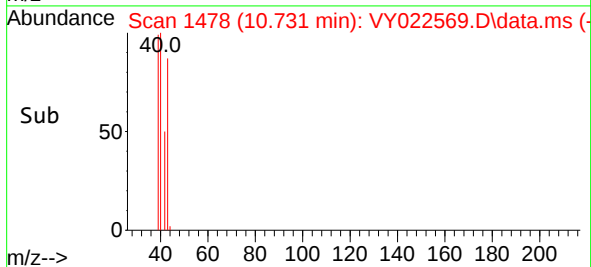
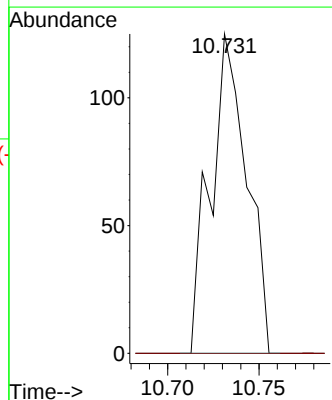
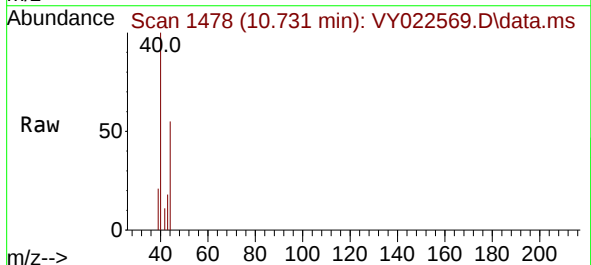
Instrument :
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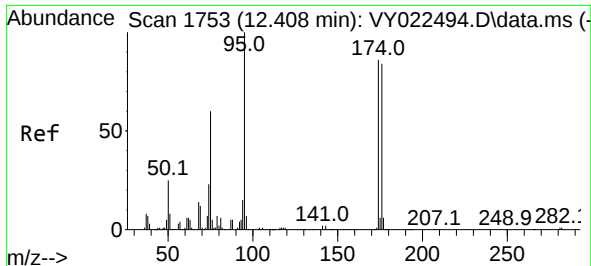
Tgt Ion: 98 Resp: 29639
Ion Ratio Lower Upper
98 100
100 63.7 51.4 77.0



#59
2-Hexanone
Concen: 1.935 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.031 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion: 43 Resp: 173
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#

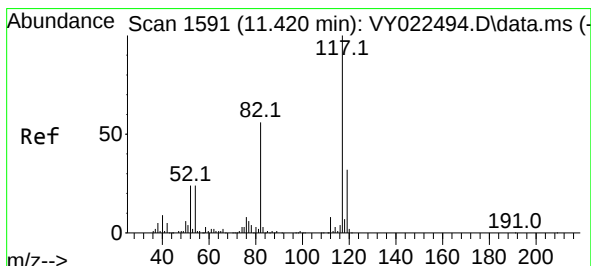
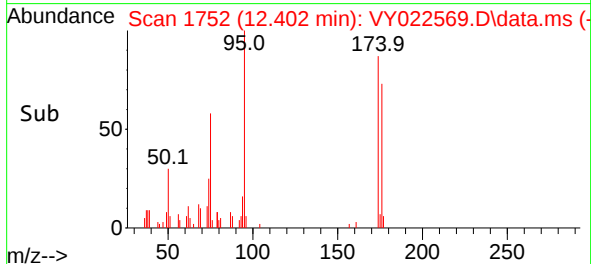
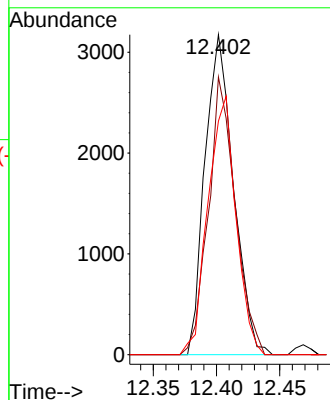
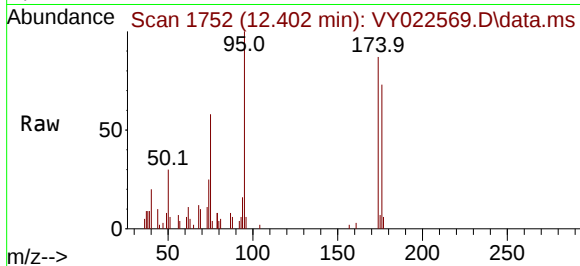




#62
4-Bromofluorobenzene
Concen: 24.086 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

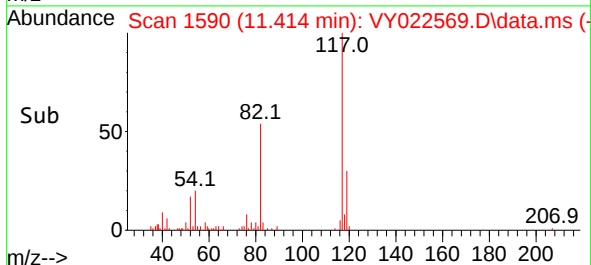
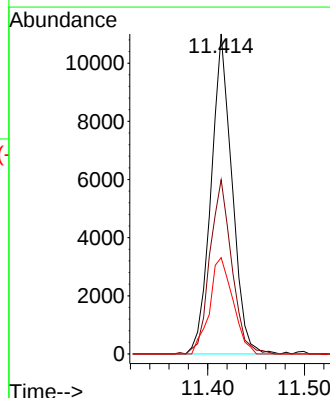
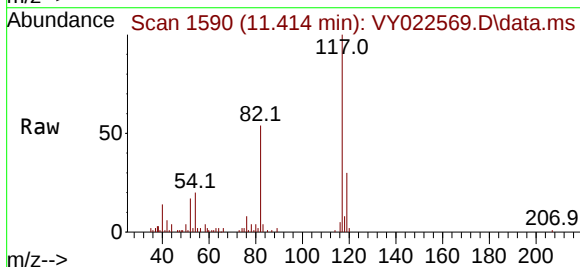
Instrument :
MSVOA_Y
ClientSampleId :
72-11995

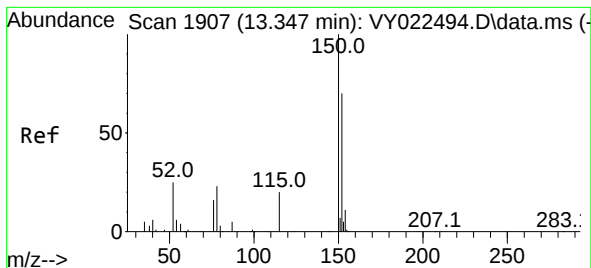
Tgt Ion:	95	Resp:	4973
Ion	Ratio	Lower	Upper
95	100		
174	82.2	0.0	170.0
176	79.6	0.0	166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion:	117	Resp:	16584
Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.6	66.8
119	30.1	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY022569.D

Acq: 05 Jun 2025 13:09

Instrument :

MSVOA_Y

ClientSampleId :

72-11995

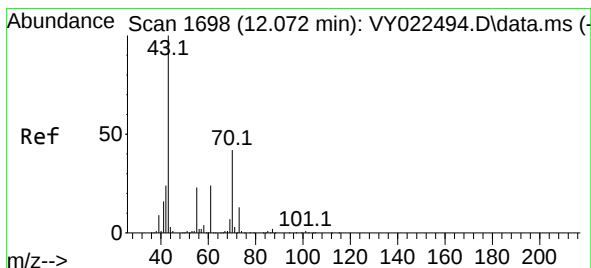
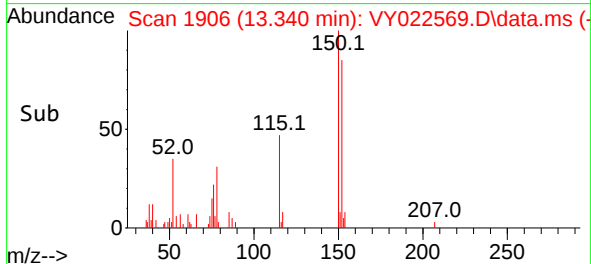
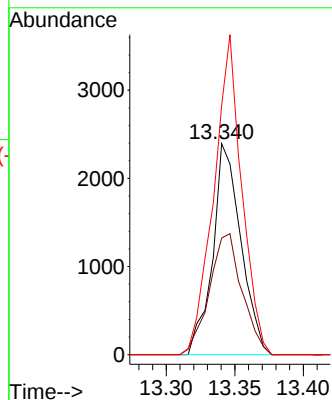
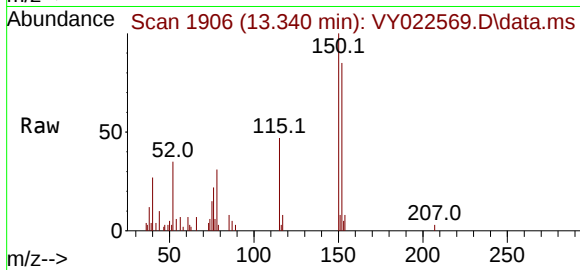
Tgt Ion:152 Resp: 3426

Ion Ratio Lower Upper

152 100

115 66.7 28.9 86.7

150 150.2 0.0 349.6



#74

N-ethyl acetate

Concen: 1.324 ug/l

RT: 12.078 min Scan# 1699

Delta R.T. 0.006 min

Lab File: VY022569.D

Acq: 05 Jun 2025 13:09

Tgt Ion: 43 Resp: 94

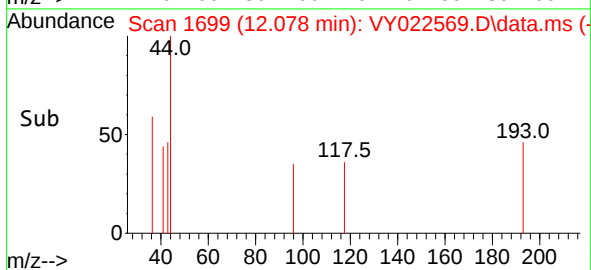
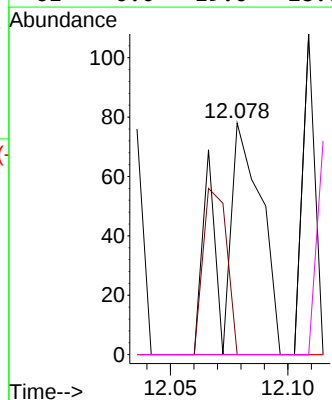
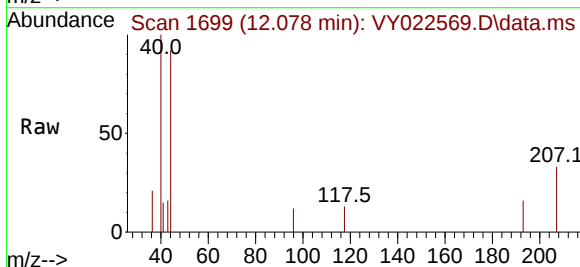
Ion Ratio Lower Upper

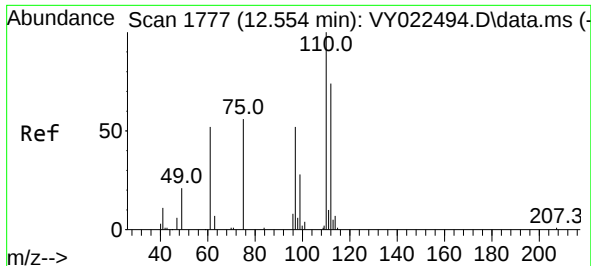
43 100

70 41.5 34.2 51.2

55 0.0 18.2 27.4#

61 0.0 19.0 28.6#

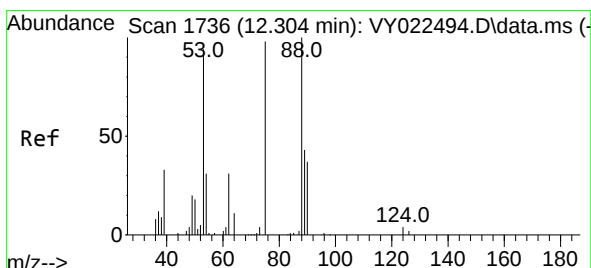
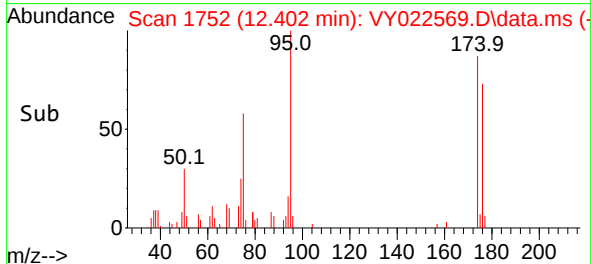
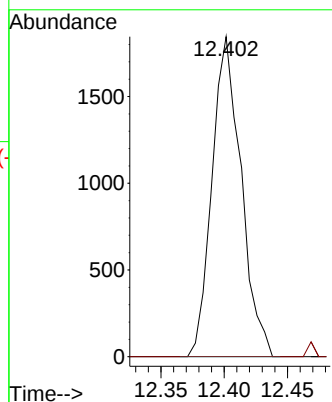
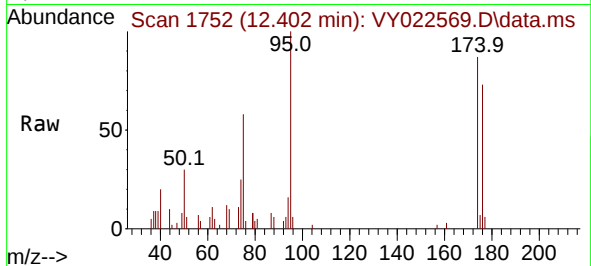




#76
1,2,3-Trichloropropane
Concen: 75.316 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

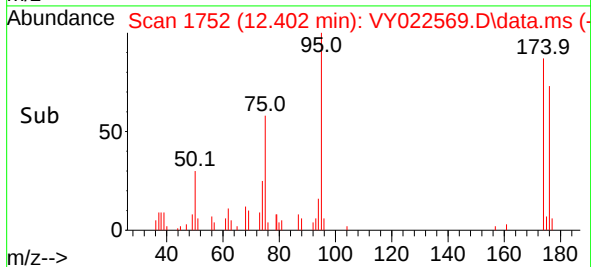
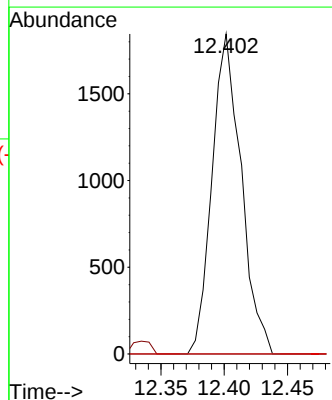
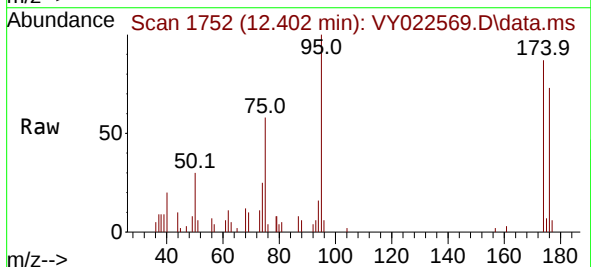
Instrument :
MSVOA_Y
ClientSampleId :
72-11995

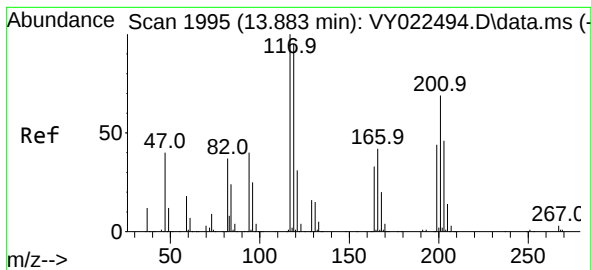
Tgt Ion: 75 Resp: 2952
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 181.884 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.097 min
Lab File: VY022569.D
Acq: 05 Jun 2025 13:09

Tgt Ion: 75 Resp: 2952
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 35.7 53.5#





#90
 Hexachloroethane
 Concen: 1.478 ug/l
 RT: 13.810 min Scan# 1995
 Delta R.T. -0.073 min
 Lab File: VY022569.D
 Acq: 05 Jun 2025 13:09

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11995

Tgt Ion:117 Resp: 72
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.0 102.0#

