

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023515.D
 Acq On : 20 Oct 2025 17:45
 Operator : SY/MD
 Sample : Q3397-03
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 21 04:02:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

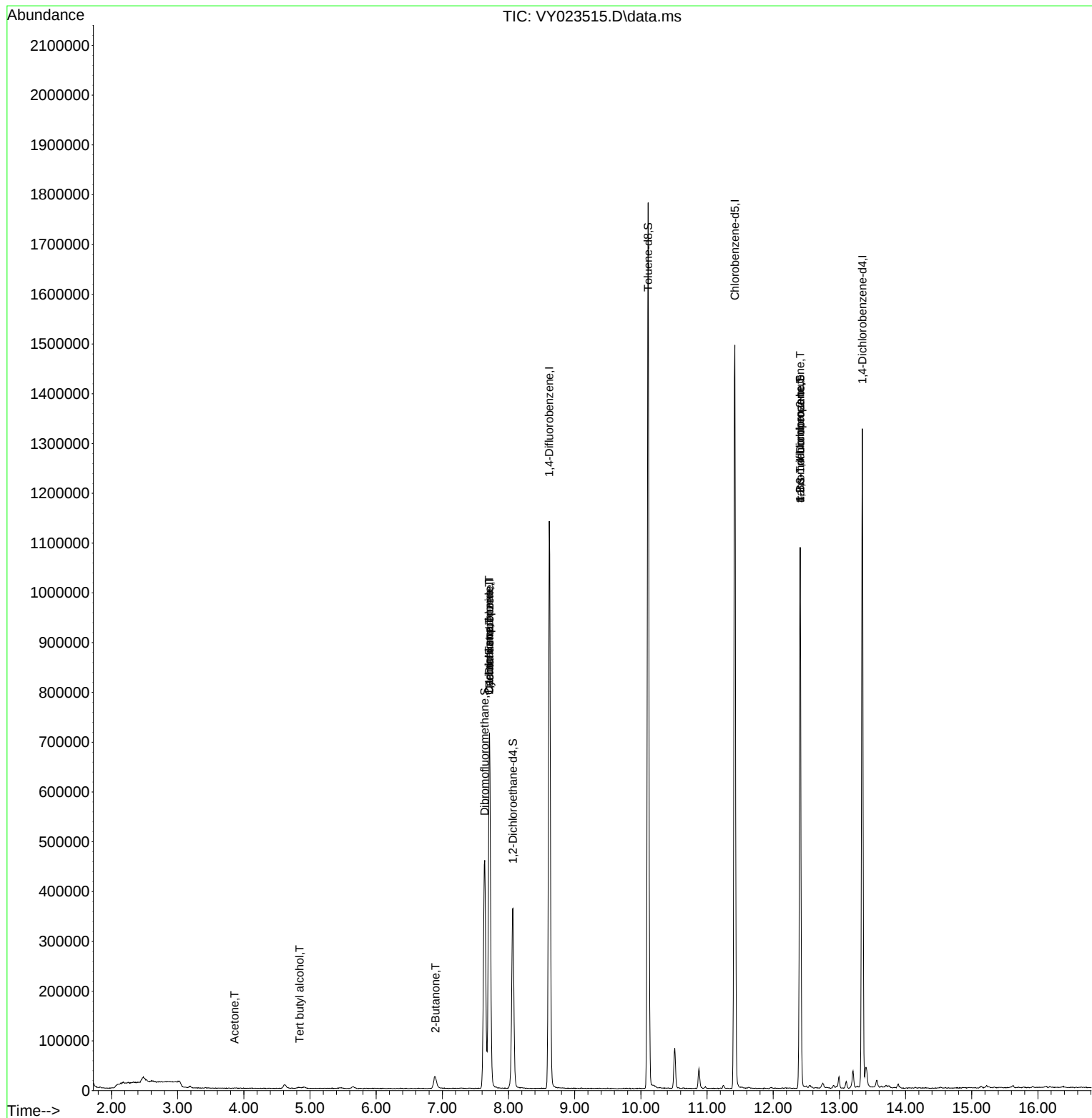
Internal Standards						
1) Pentafluorobenzene	7.713	168	603343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1020536	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	860237	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	352309	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	280038	55.505	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	111.020%
35) Dibromofluoromethane	7.640	113	332198	52.976	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	105.960%
50) Toluene-d8	10.109	98	1160739	49.705	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.400%
62) 4-Bromofluorobenzene	12.408	95	309180	40.102	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	80.200%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	4.842	59	2556	6.810	ug/l #	77
16) Acetone	3.860	43	1501	1.250	ug/l	89
25) 2-Butanone	6.896	43	1484	1.012	ug/l #	40
31) Cyclohexane	7.707	56	10837	1.291	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	40263	4.850	ug/l #	48
38) Carbon Tetrachloride	7.707	117	54887	5.453	ug/l #	15
76) 1,2,3-Trichloropropane	12.408	75	151823	48.844	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	151823	119.776	ug/l #	15

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

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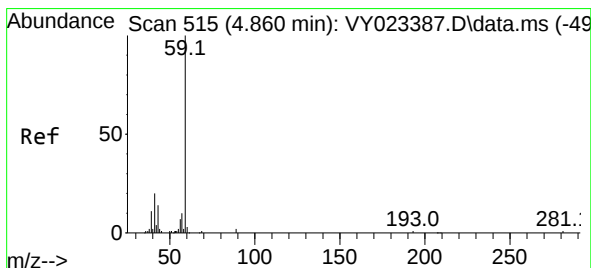
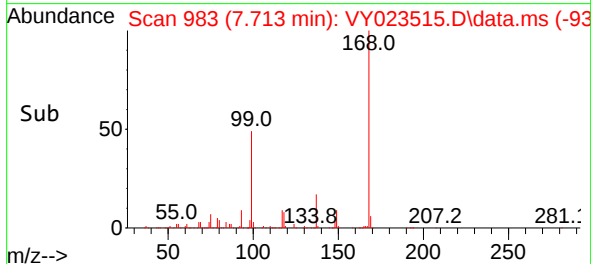
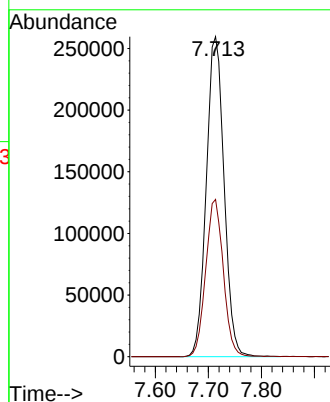
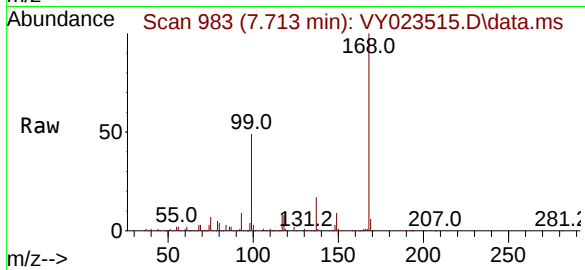




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 99
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

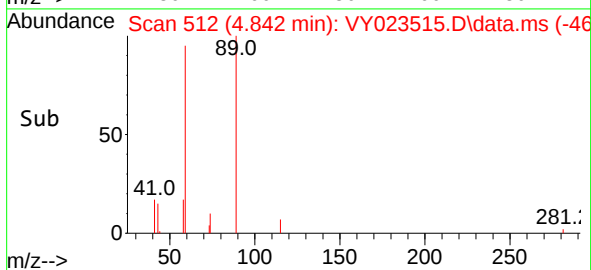
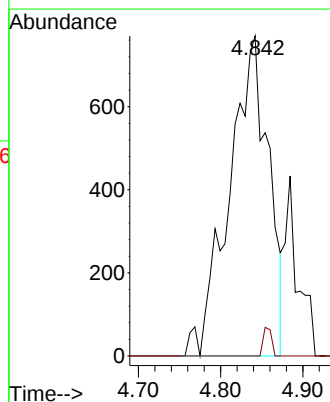
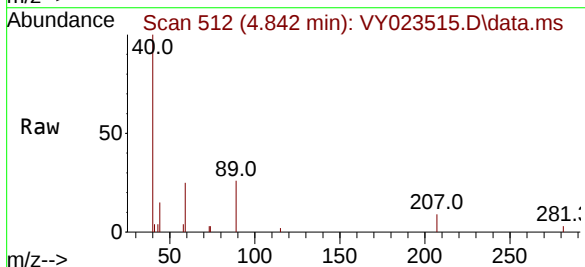
Instrument :
MSVOA_Y
ClientSampleId :

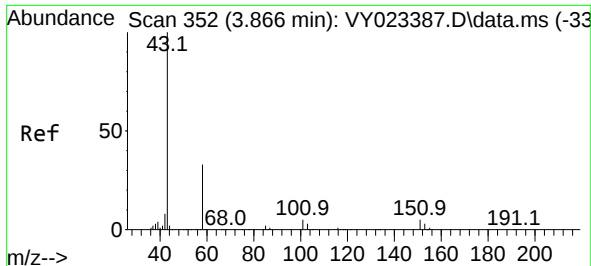
Tgt Ion:168 Resp: 603343
Ion Ratio Lower Upper
168 100
99 49.1 39.7 59.5



#11
Tert butyl alcohol
Concen: 6.810 ug/l
RT: 4.842 min Scan# 512
Delta R.T. -0.018 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Tgt Ion: 59 Resp: 2556
Ion Ratio Lower Upper
59 100
57 1.9 8.3 12.5#

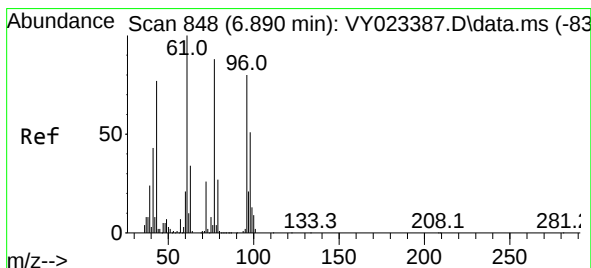
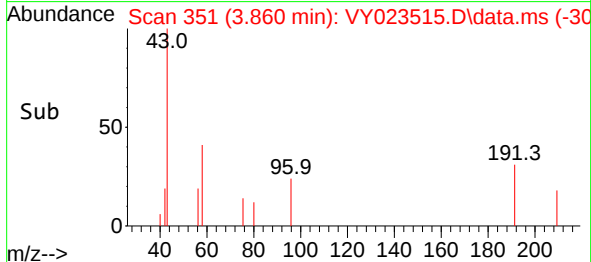
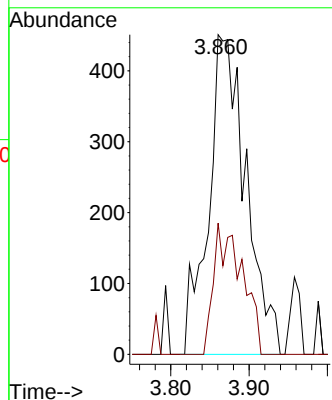
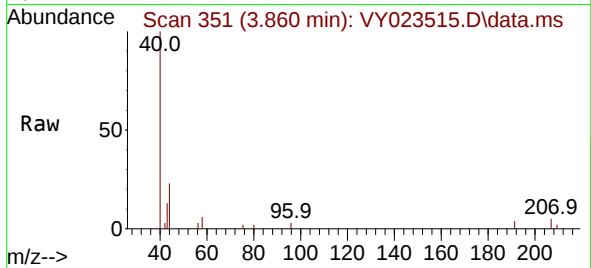




#16
Acetone
Concen: 1.250 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

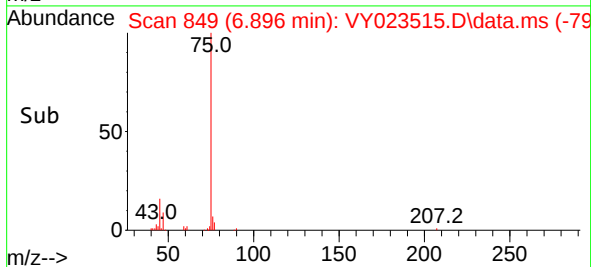
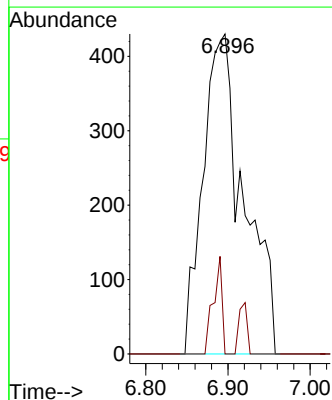
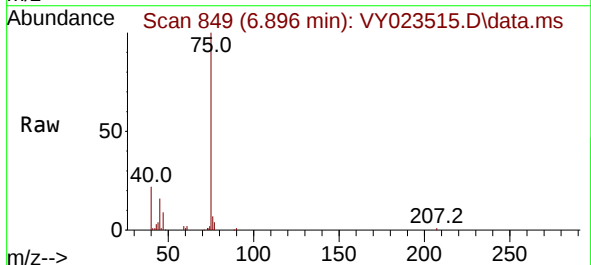
Instrument :
MSVOA_Y
ClientSampleId :

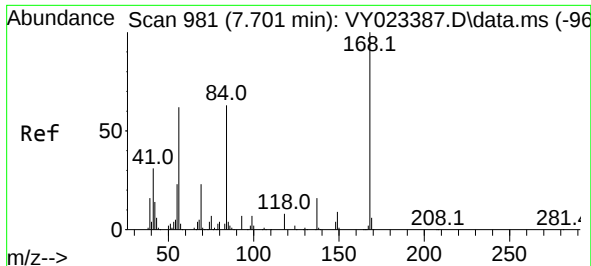
Tgt Ion: 43 Resp: 1501
Ion Ratio Lower Upper
43 100
58 41.0 27.7 41.5



#25
2-Butanone
Concen: 1.012 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Tgt Ion: 43 Resp: 1484
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#

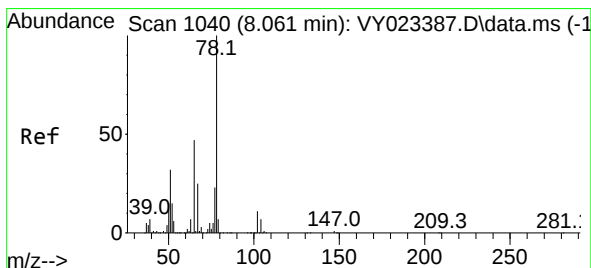
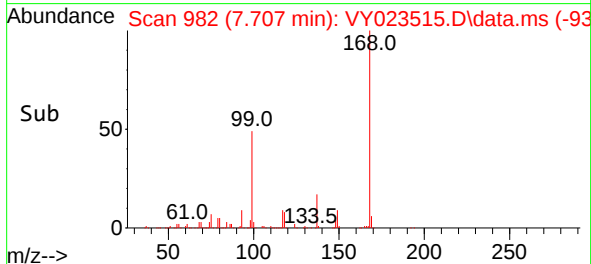
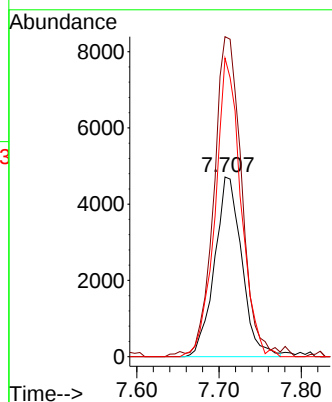
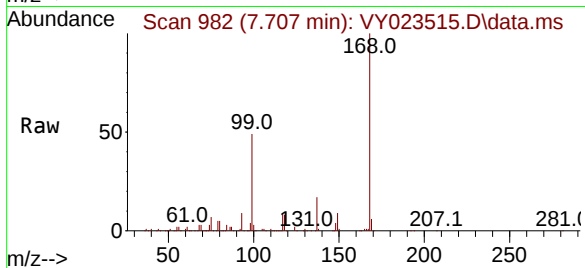




#31
Cyclohexane
Concen: 1.291 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

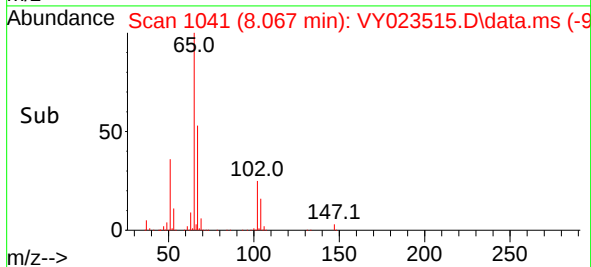
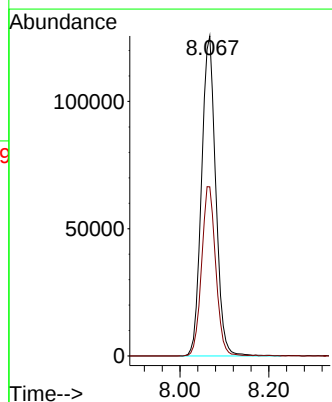
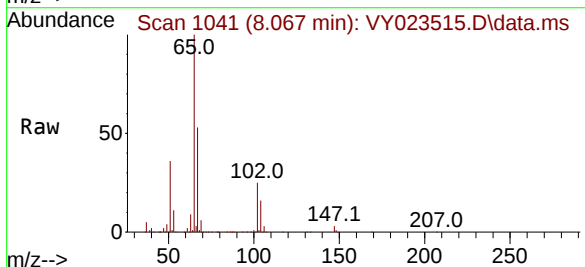
Instrument :
MSVOA_Y
ClientSampleId :

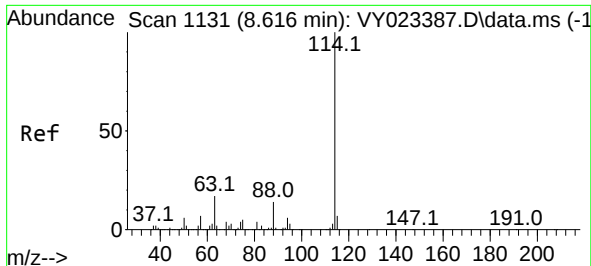
Tgt Ion: 56 Resp: 10837
Ion Ratio Lower Upper
56 100
69 175.5 30.0 45.0#
84 166.2 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 55.505 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

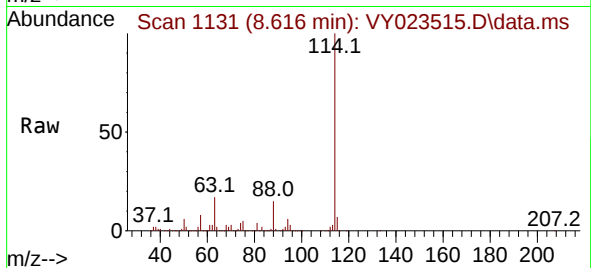
Tgt Ion: 65 Resp: 280038
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.8



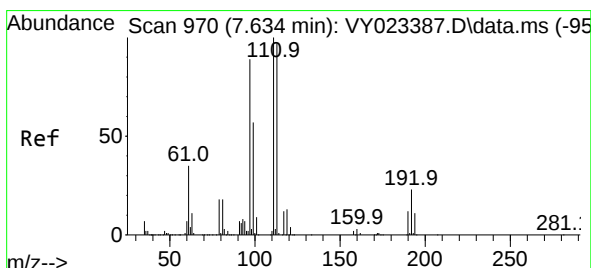
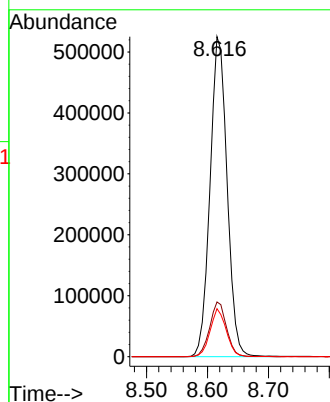
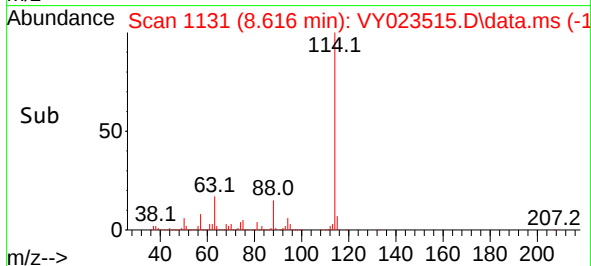


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Instrument :
MSVOA_Y
ClientSampleId :

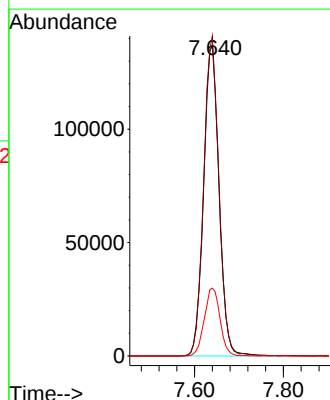
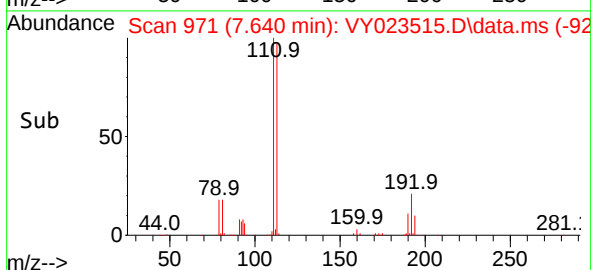
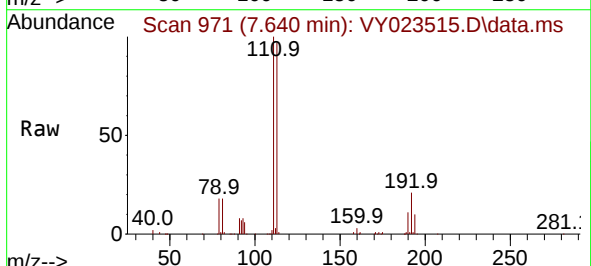


Tgt Ion:114 Resp: 1020536
Ion Ratio Lower Upper
114 100
63 17.1 0.0 34.2
88 15.0 0.0 28.4



#35
Dibromofluoromethane
Concen: 52.976 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Tgt Ion:113 Resp: 332198
Ion Ratio Lower Upper
113 100
111 101.5 81.8 122.6
192 22.2 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.850 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023515.D

Acq: 20 Oct 2025 17:45

Instrument :

MSVOA_Y

ClientSampleId :

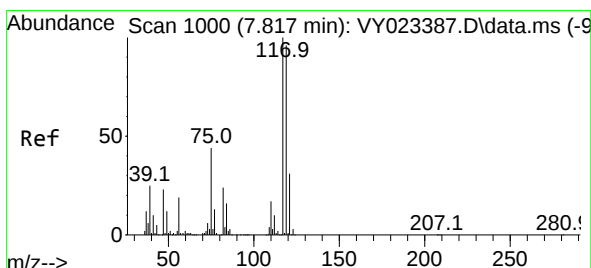
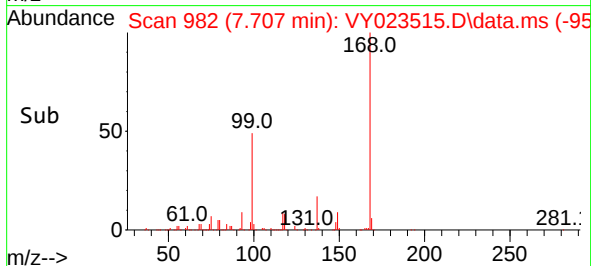
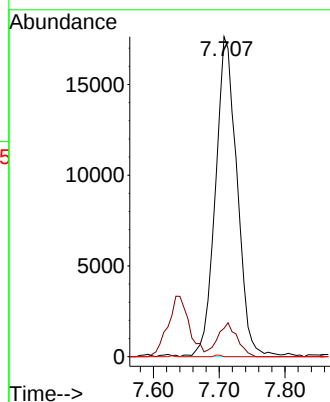
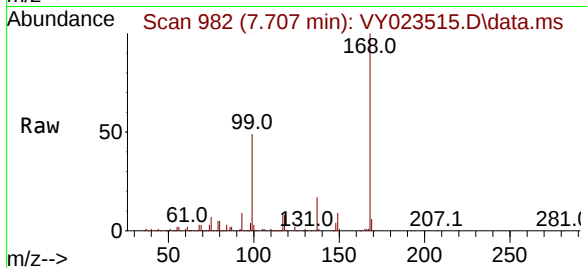
Tgt Ion: 75 Resp: 40263

Ion Ratio Lower Upper

75 100

110 9.7 19.9 59.7#

77 0.2 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.453 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023515.D

Acq: 20 Oct 2025 17:45

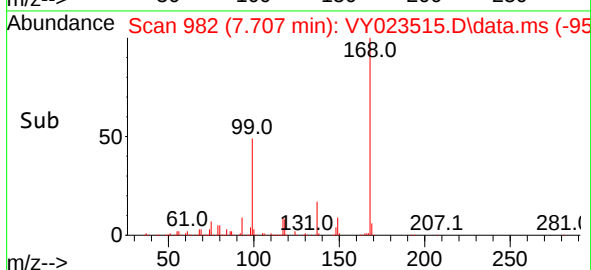
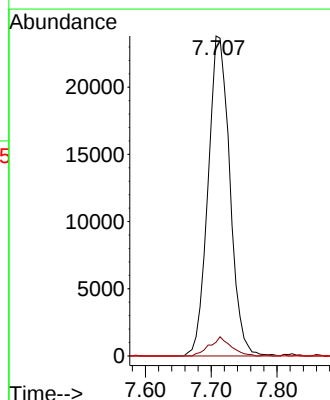
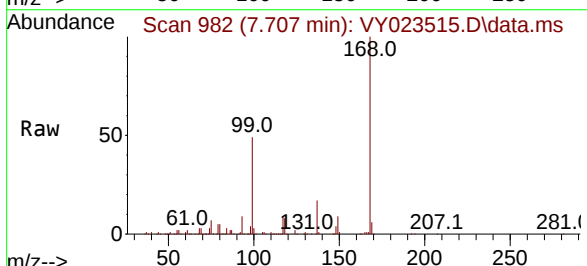
Tgt Ion: 117 Resp: 54887

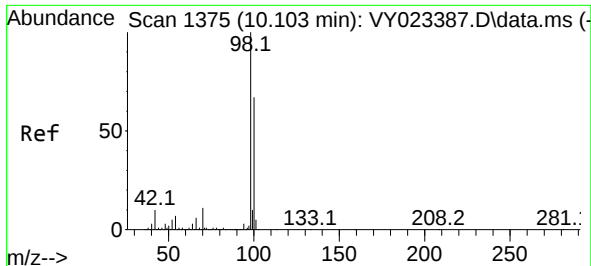
Ion Ratio Lower Upper

117 100

119 4.3 76.8 115.2#

121 0.0 24.5 36.7#

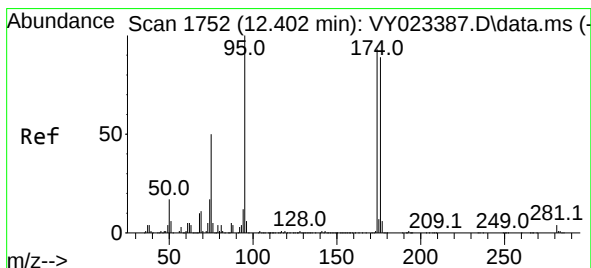
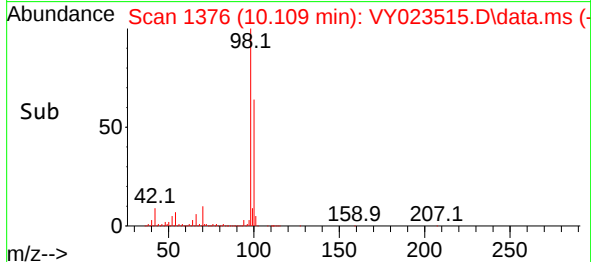
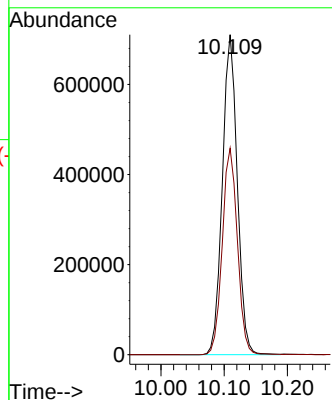
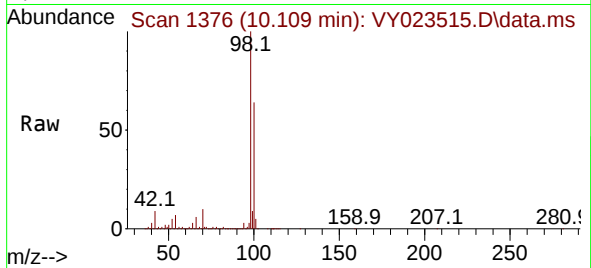




#50
Toluene-d8
Concen: 49.705 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

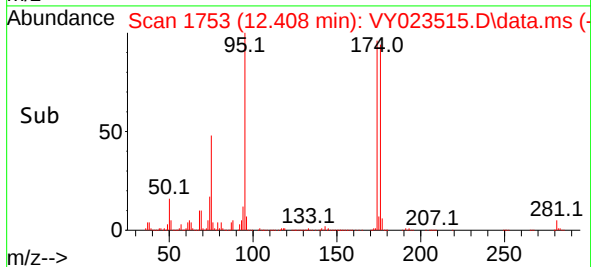
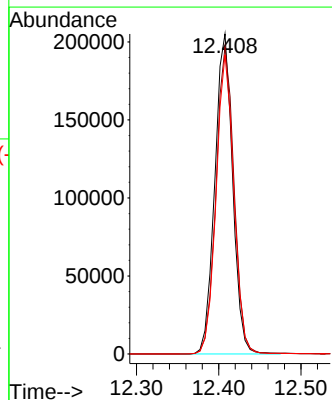
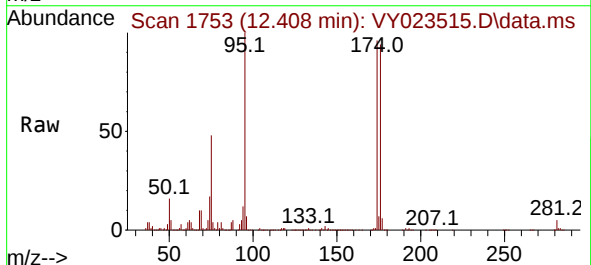
Instrument :
MSVOA_Y
ClientSampleId :

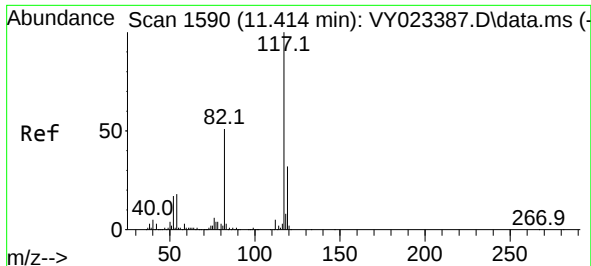
Tgt Ion: 98 Resp: 1160739
Ion Ratio Lower Upper
98 100
100 65.3 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 40.102 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Tgt Ion: 95 Resp: 309180
Ion Ratio Lower Upper
95 100
174 97.3 0.0 192.8
176 92.8 0.0 187.6

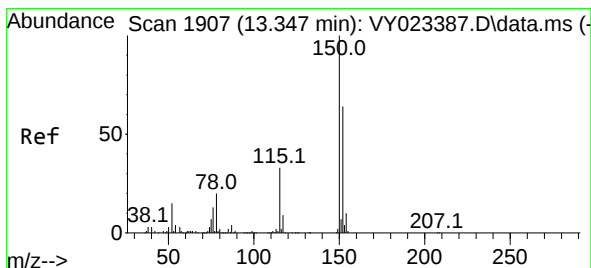
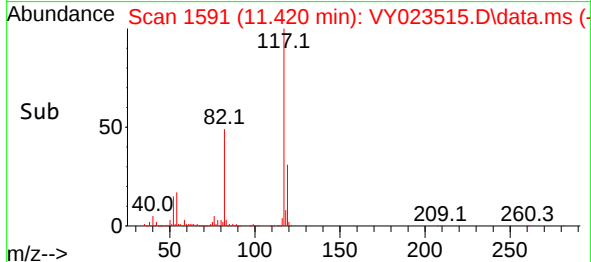
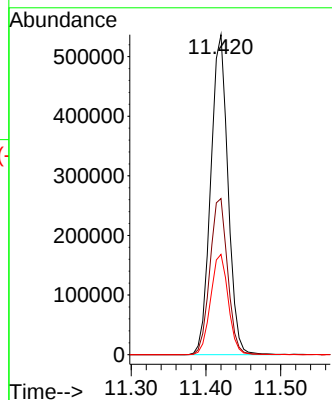
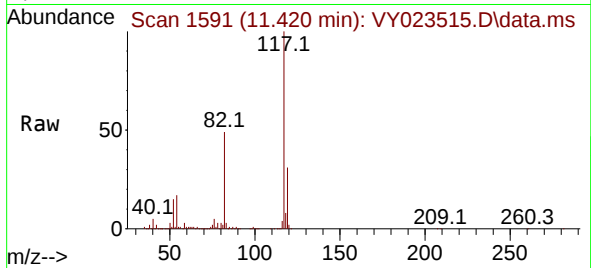




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

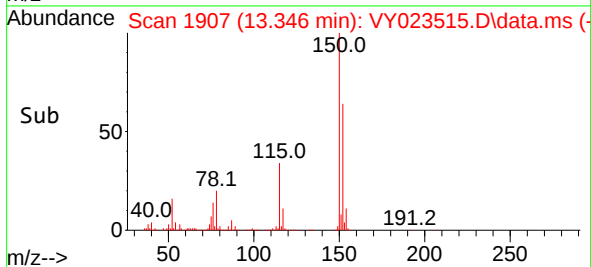
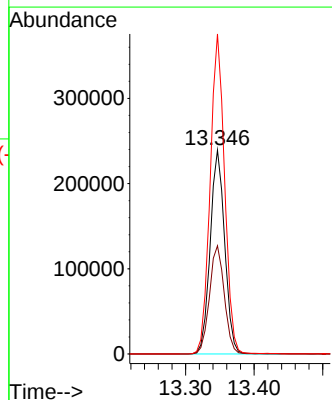
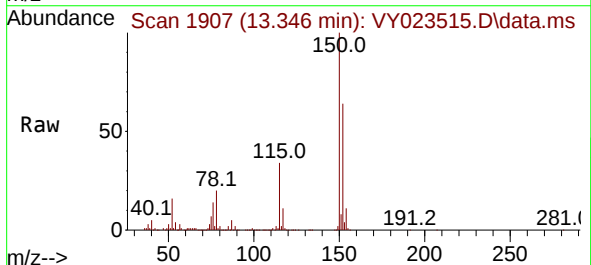
Instrument :
MSVOA_Y
ClientSampleId :

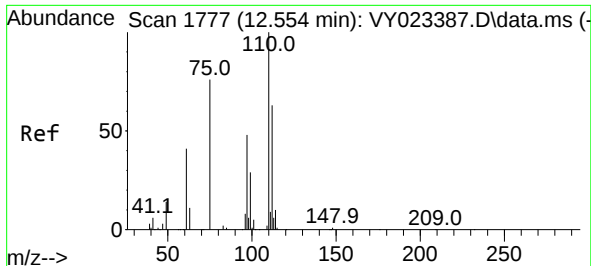
Tgt Ion:117 Resp: 860237
Ion Ratio Lower Upper
117 100
82 48.8 41.0 61.4
119 31.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Tgt Ion:152 Resp: 352309
Ion Ratio Lower Upper
152 100
115 54.3 27.1 81.2
150 156.3 0.0 347.4

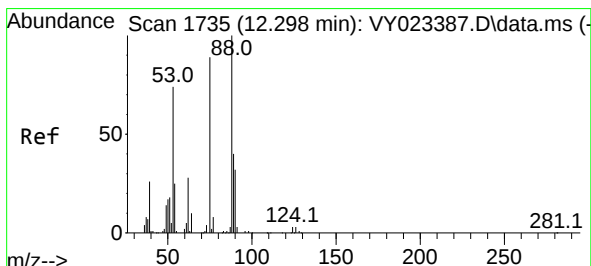
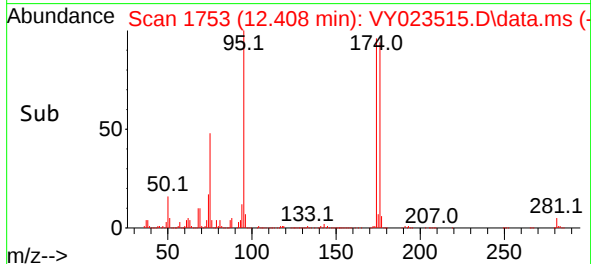
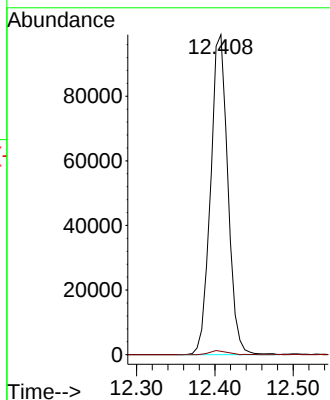
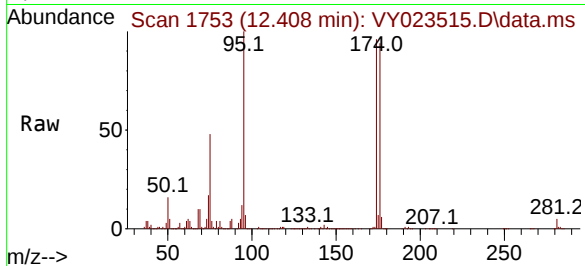




#76
1,2,3-Trichloropropane
Concen: 48.844 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 151823
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 119.776 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023515.D
Acq: 20 Oct 2025 17:45

Tgt Ion: 75 Resp: 151823
Ion Ratio Lower Upper
75 100
53 0.4 68.6 102.8#
89 0.1 39.0 58.4#

