

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100825\
 Data File : VY023403.D
 Acq On : 08 Oct 2025 13:21
 Operator : SY/MD
 Sample : Q3302-02
 Misc : 3.93g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 09 03:12:41 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	7.707	168	594563	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1142064	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1102129	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	503189	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	303463	61.037	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.080%	
35) Dibromofluoromethane	7.634	113	377839	53.843	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.680%	
50) Toluene-d8	10.103	98	1350576	51.680	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.360%	
62) 4-Bromofluorobenzene	12.402	95	442045	51.234	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 102.460%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.824	59	19338	52.283	ug/l #	74
16) Acetone	3.873	43	115547	97.621	ug/l	99
18) Methyl Acetate	4.385	43	73354	23.625	ug/l	98
20) Methylene Chloride	4.616	84	13645	2.132	ug/l	89
25) 2-Butanone	6.896	43	4181	2.893	ug/l #	81
31) Cyclohexane	7.707	56	9615	1.163	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	39609	4.263	ug/l #	48
38) Carbon Tetrachloride	7.707	117	54427	4.831	ug/l #	16
51) 4-Methyl-2-Pentanone	10.103	43	5122	1.351	ug/l #	1
76) 1,2,3-Trichloropropane	12.402	75	219523	49.448	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	219523	121.256	ug/l #	15

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

Quant Time: Oct 09 03:12:41 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

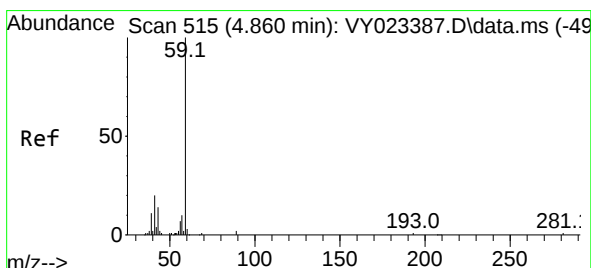
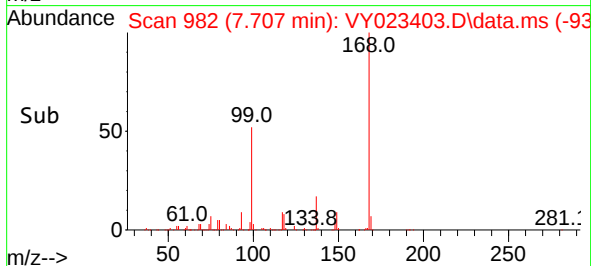
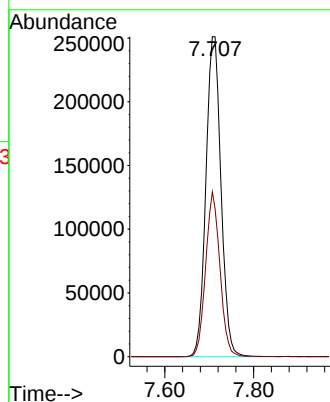
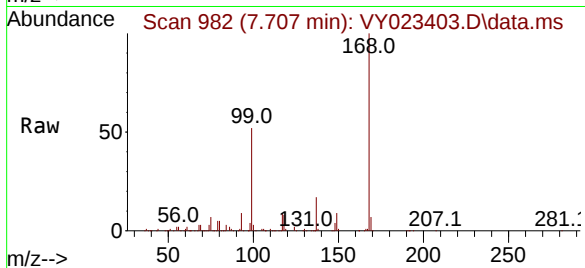




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

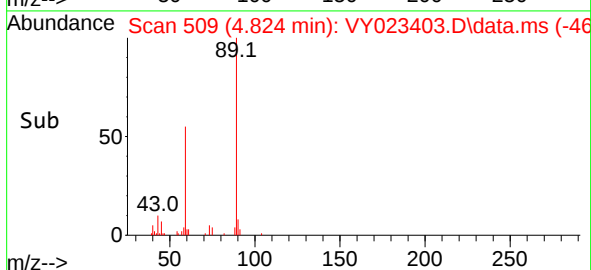
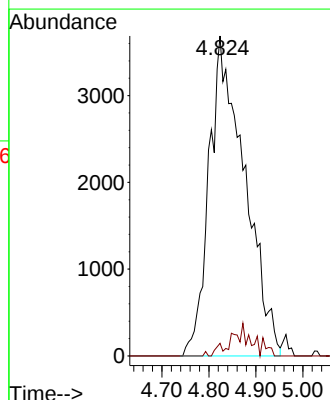
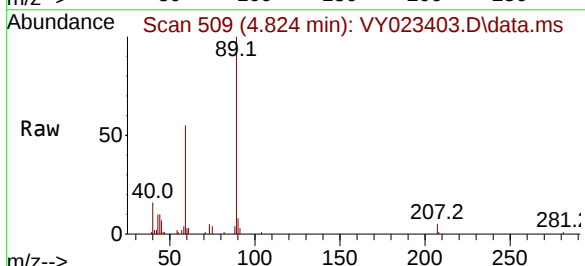
Instrument :
MSVOA_Y
ClientSampleId :

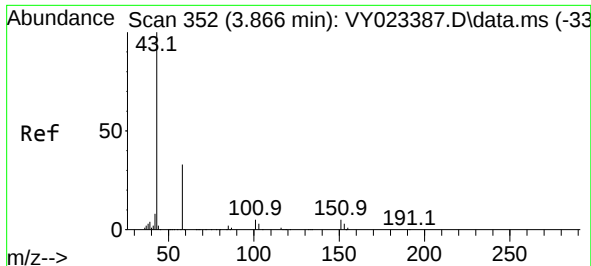
Tgt Ion:168 Resp: 594563
Ion Ratio Lower Upper
168 100
99 51.5 39.7 59.5



#11
Tert butyl alcohol
Concen: 52.283 ug/l
RT: 4.824 min Scan# 509
Delta R.T. -0.037 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

Tgt Ion: 59 Resp: 19338
Ion Ratio Lower Upper
59 100
57 0.7 8.3 12.5#

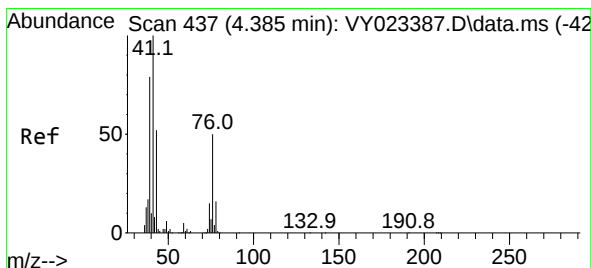
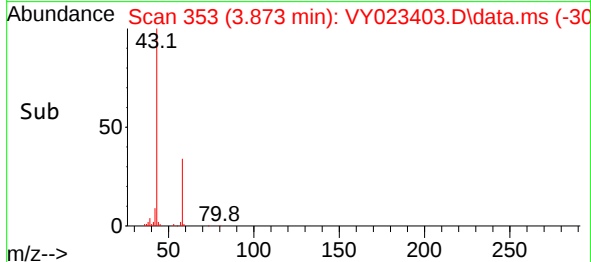
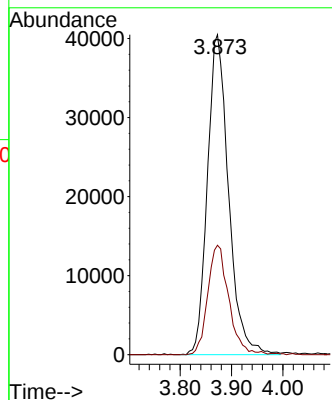
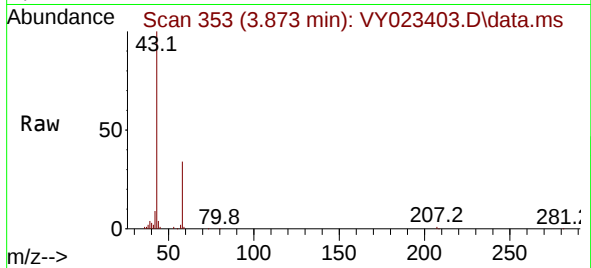




#16
Acetone
Concen: 97.621 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

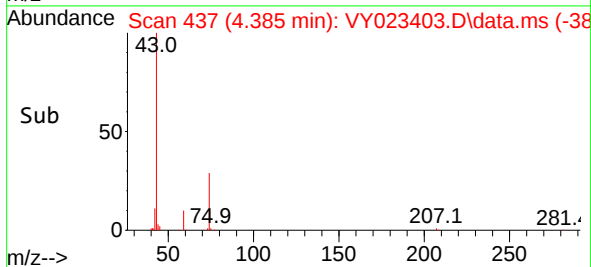
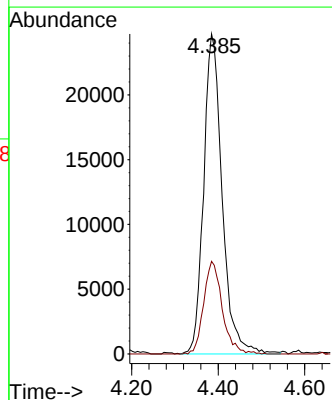
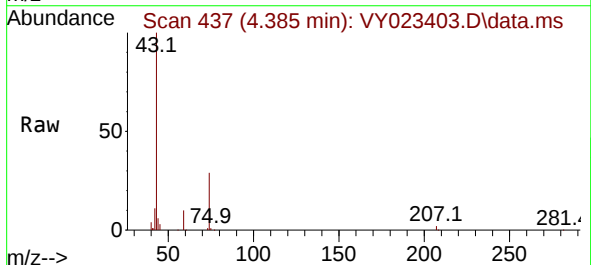
Instrument :
MSVOA_Y
ClientSampleId :

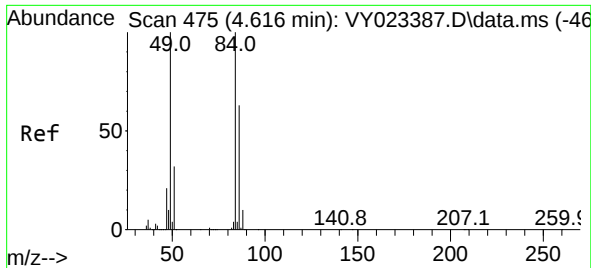
Tgt Ion: 43 Resp: 115547
Ion Ratio Lower Upper
43 100
58 34.2 27.7 41.5



#18
Methyl Acetate
Concen: 23.625 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

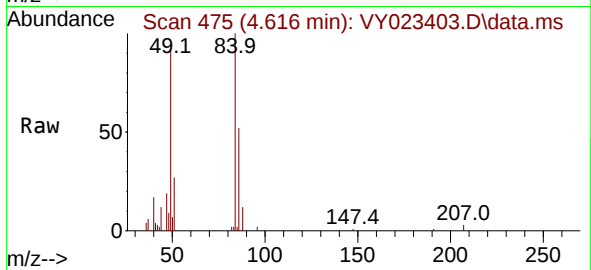
Tgt Ion: 43 Resp: 73354
Ion Ratio Lower Upper
43 100
74 29.2 24.2 36.4



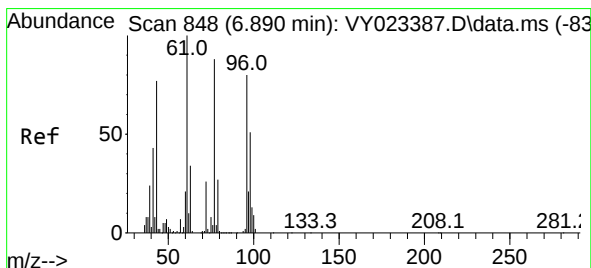
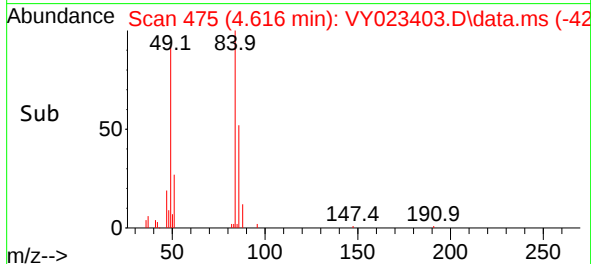
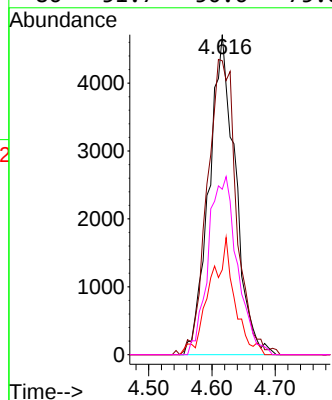


#20
Methylene Chloride
Concen: 2.132 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

Instrument :
MSVOA_Y
ClientSampleId :

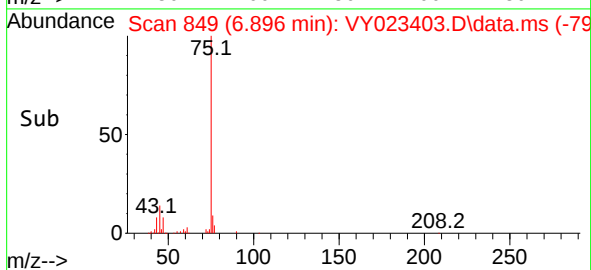
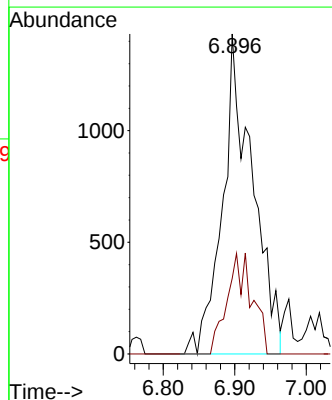
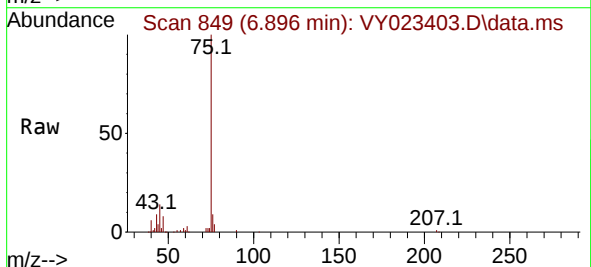


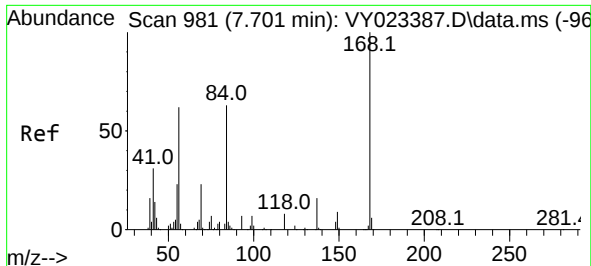
Tgt Ion:	84	Resp:	13645
Ion	Ratio	Lower	Upper
84	100		
49	91.8	80.2	120.4
51	26.5	25.9	38.9
86	51.7	50.6	75.8



#25
2-Butanone
Concen: 2.893 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

Tgt Ion:	43	Resp:	4181
Ion	Ratio	Lower	Upper
43	100		
72	23.6	27.4	41.2#

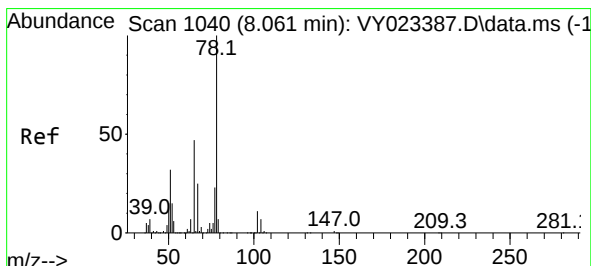
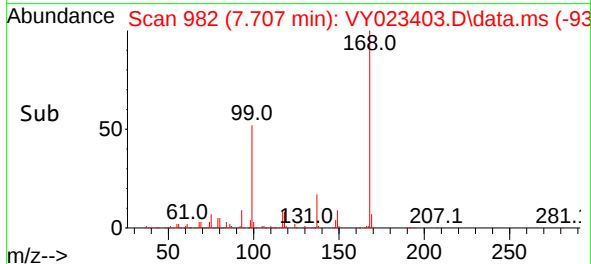
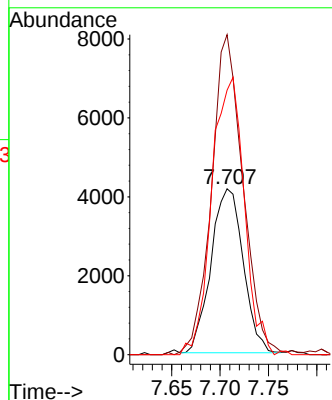
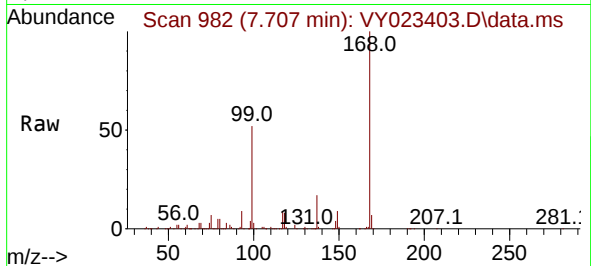




#31
Cyclohexane
Concen: 1.163 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

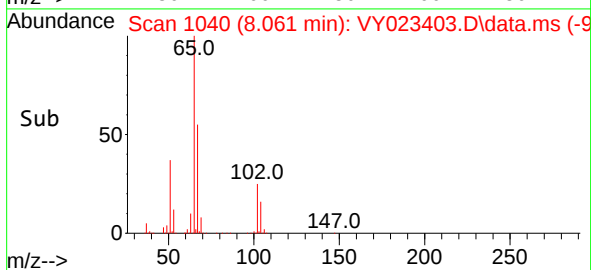
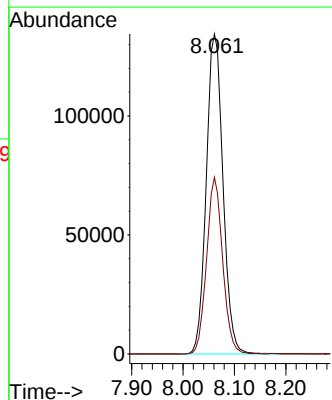
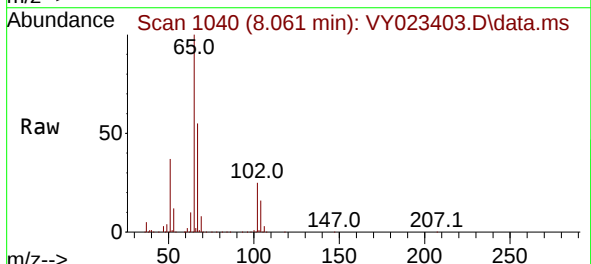
Instrument :
MSVOA_Y
ClientSampleId :

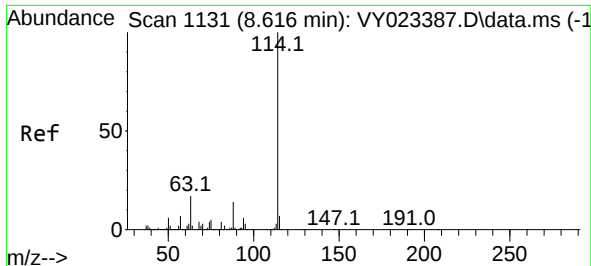
Tgt Ion: 56 Resp: 9615
Ion Ratio Lower Upper
56 100
69 193.7 30.0 45.0#
84 161.4 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 61.037 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

Tgt Ion: 65 Resp: 303463
Ion Ratio Lower Upper
65 100
67 53.0 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

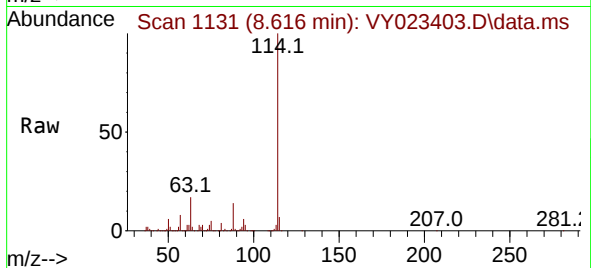
Lab File: VY023403.D

Acq: 08 Oct 2025 13:21

Instrument :

MSVOA_Y

ClientSampleId :



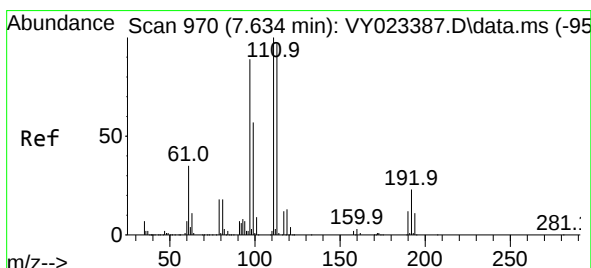
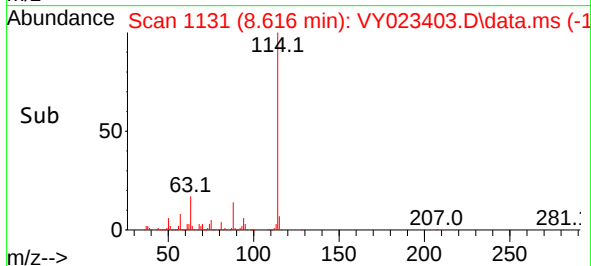
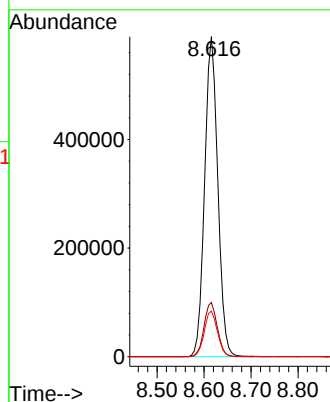
Tgt Ion:114 Resp: 1142064

Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.2

88 14.3 0.0 28.4



#35

Dibromofluoromethane

Concen: 53.843 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY023403.D

Acq: 08 Oct 2025 13:21

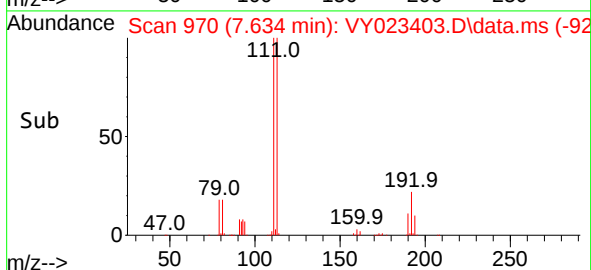
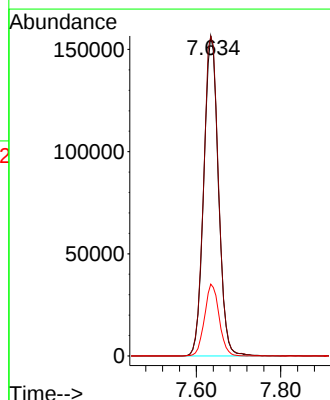
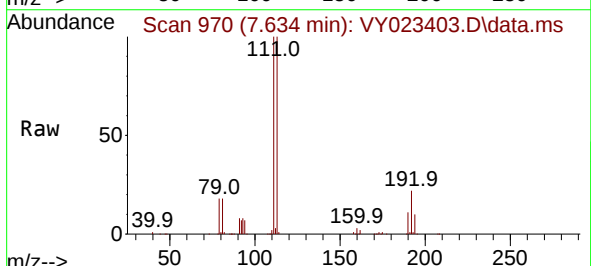
Tgt Ion:113 Resp: 377839

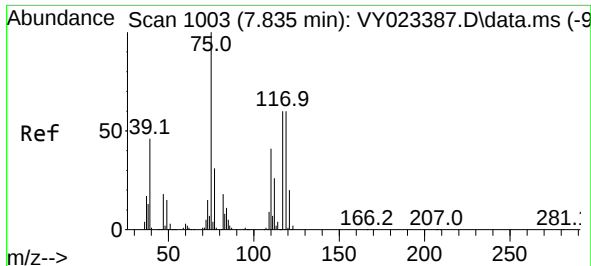
Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.6

192 22.4 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.263 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023403.D

Acq: 08 Oct 2025 13:21

Instrument :

MSVOA_Y

ClientSampleId :

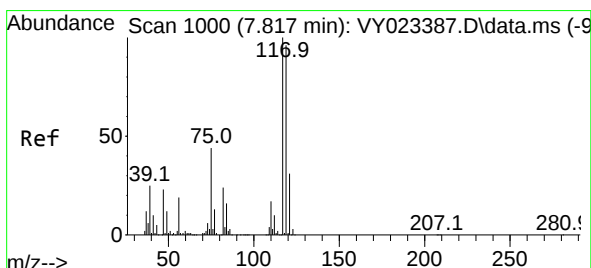
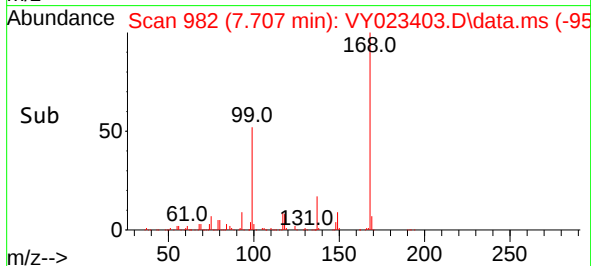
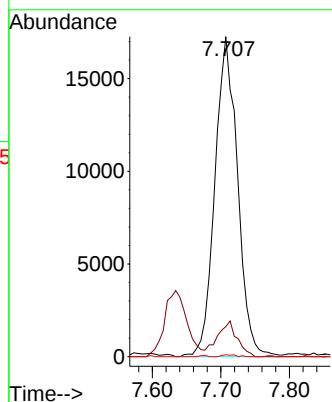
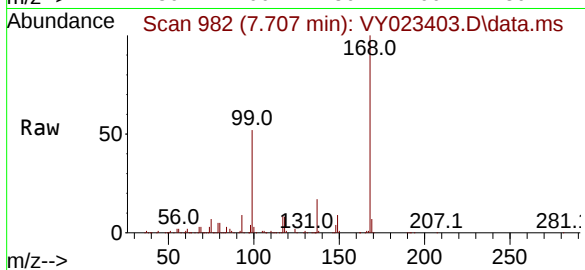
Tgt Ion: 75 Resp: 39609

Ion Ratio Lower Upper

75 100

110 9.6 19.9 59.7#

77 0.4 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 4.831 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023403.D

Acq: 08 Oct 2025 13:21

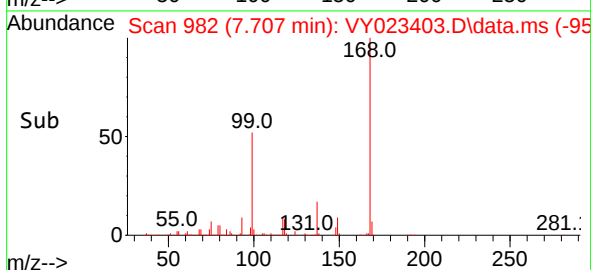
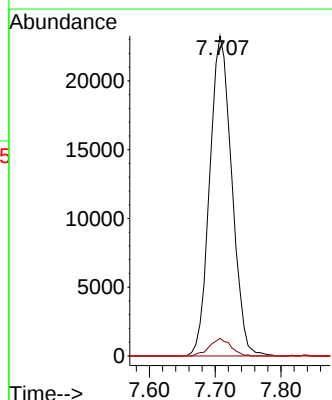
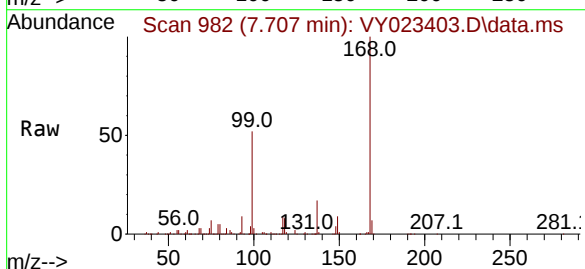
Tgt Ion: 117 Resp: 54427

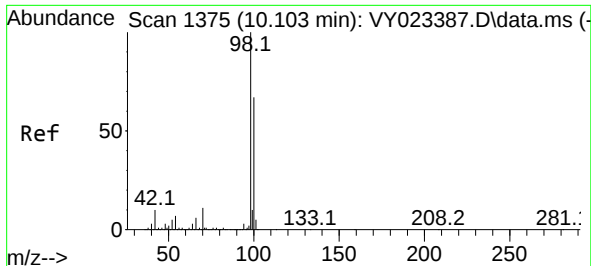
Ion Ratio Lower Upper

117 100

119 5.5 76.8 115.2#

121 0.0 24.5 36.7#

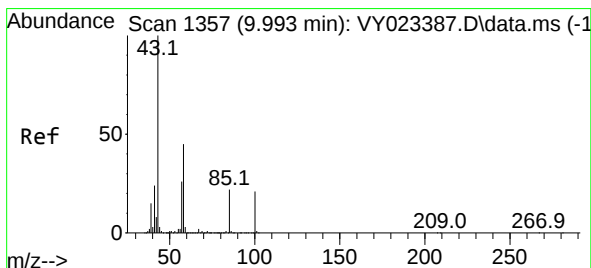
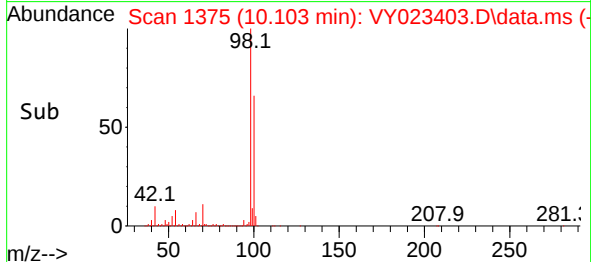
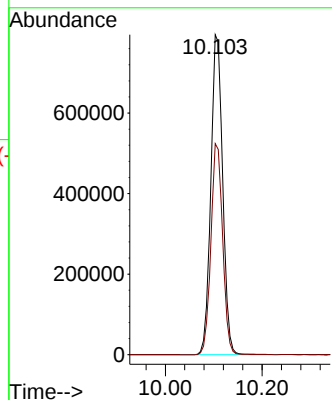
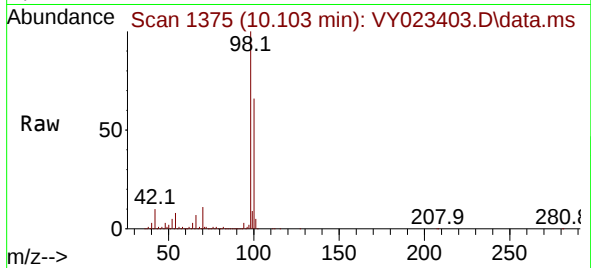




#50
Toluene-d8
Concen: 51.680 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

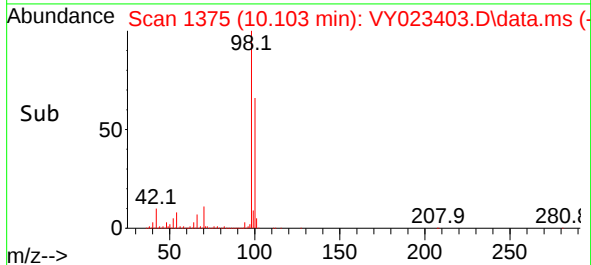
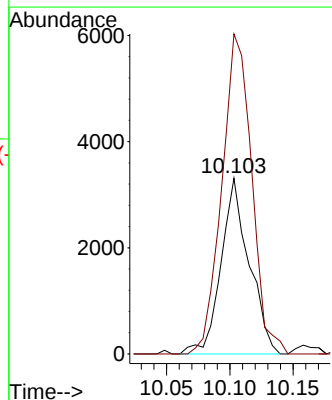
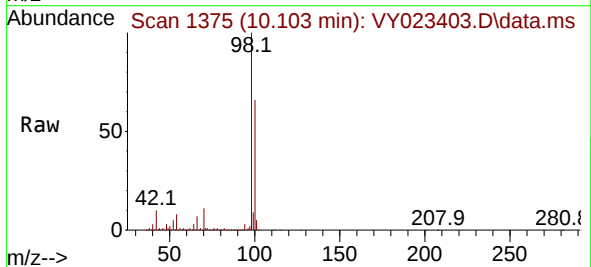
Instrument :
MSVOA_Y
ClientSampleId :

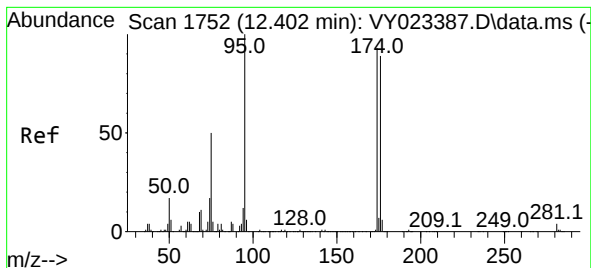
Tgt Ion: 98 Resp: 1350576
Ion Ratio Lower Upper
98 100
100 65.3 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 1.351 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.110 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

Tgt Ion: 43 Resp: 5122
Ion Ratio Lower Upper
43 100
58 193.4 35.3 52.9#

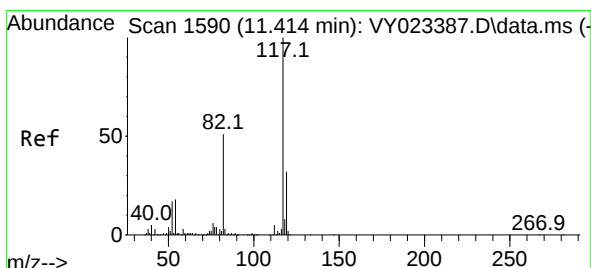
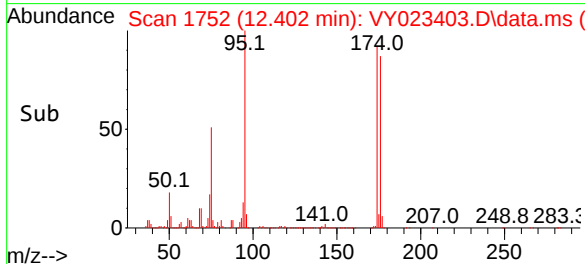
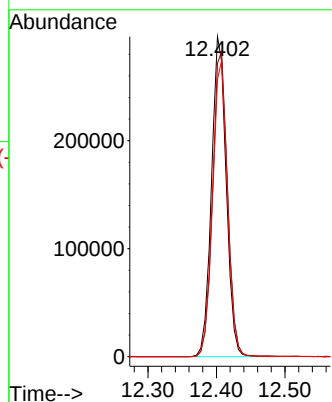
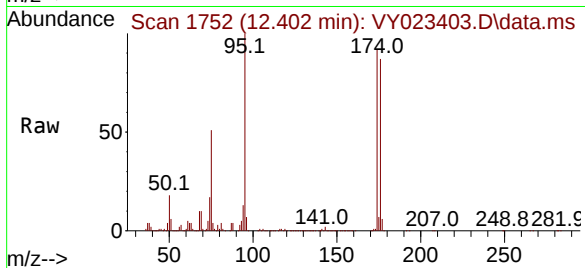




#62
4-Bromofluorobenzene
Concen: 51.234 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

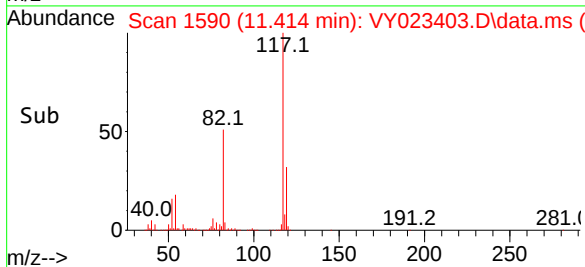
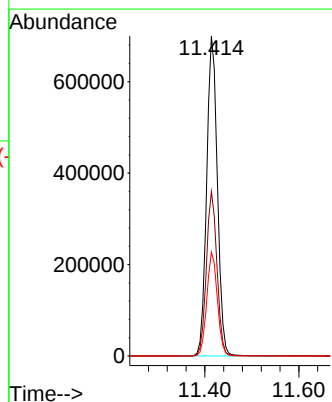
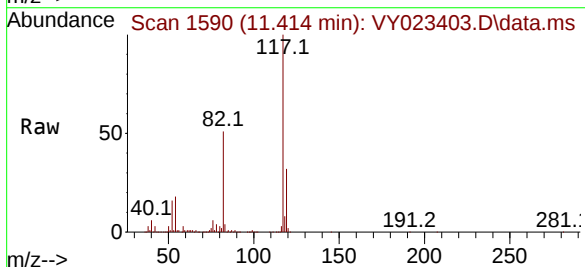
Instrument :
MSVOA_Y
ClientSampleId :

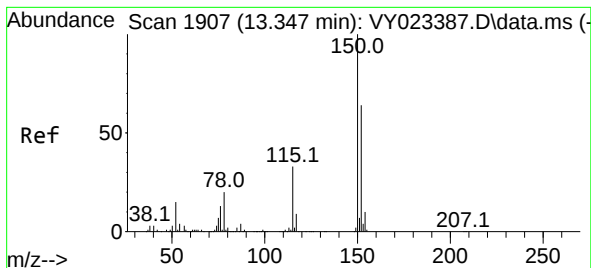
Tgt Ion: 95 Resp: 442045
Ion Ratio Lower Upper
95 100
174 97.0 0.0 192.8
176 93.2 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

Tgt Ion: 117 Resp: 1102129
Ion Ratio Lower Upper
117 100
82 51.4 41.0 61.4
119 32.5 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: VY023403.D

Acq: 08 Oct 2025 13:21

Instrument :

MSVOA_Y

ClientSampleId :

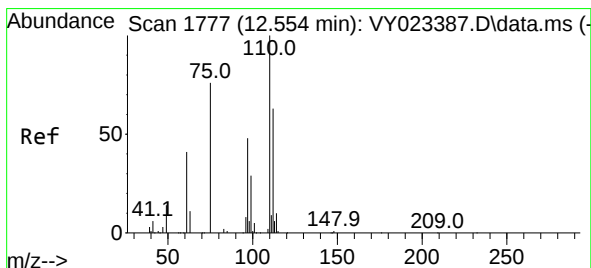
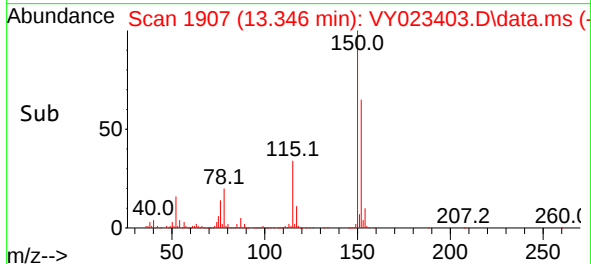
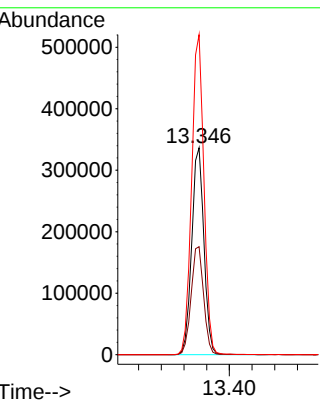
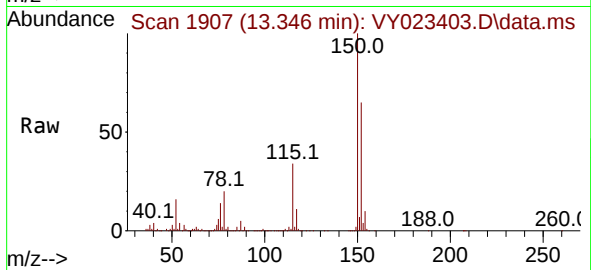
Tgt Ion:152 Resp: 503189

Ion Ratio Lower Upper

152 100

115 53.6 27.1 81.2

150 155.4 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 49.448 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY023403.D

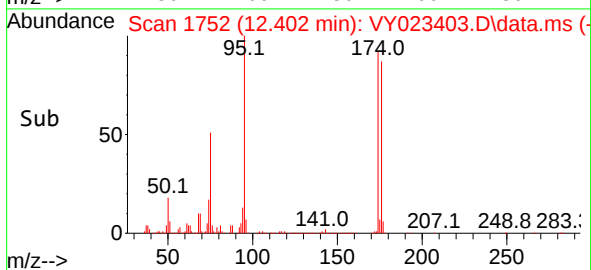
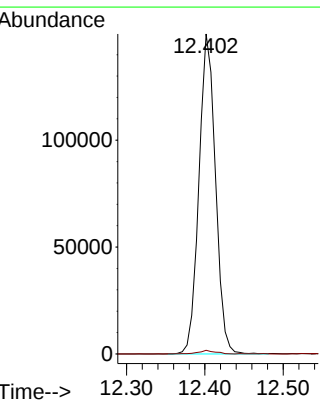
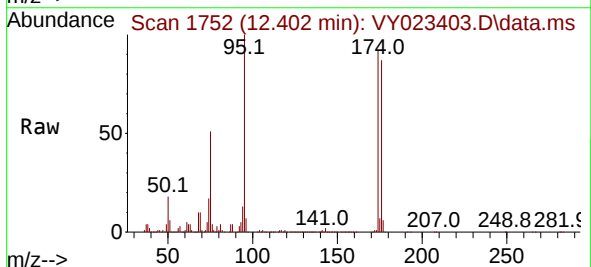
Acq: 08 Oct 2025 13:21

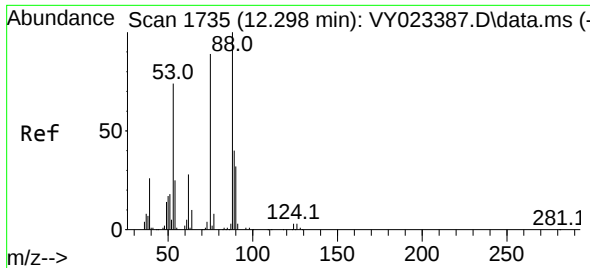
Tgt Ion: 75 Resp: 219523

Ion Ratio Lower Upper

75 100

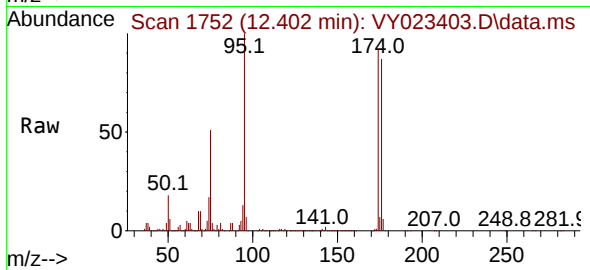
77 1.2 0.0 0.0#





#81
trans-1,4-Dichloro-2-butene
Concen: 121.256 ug/l
RT: 12.402 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY023403.D
Acq: 08 Oct 2025 13:21

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 75 Resp: 219523
Ion Ratio Lower Upper
75 100
53 0.2 68.6 102.8#
89 0.0 39.0 58.4#

