

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100825\
 Data File : VY023399.D
 Acq On : 08 Oct 2025 11:47
 Operator : SY/MD
 Sample : Q3303-03
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HL-EAST

Quant Time: Oct 09 03:10:34 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)

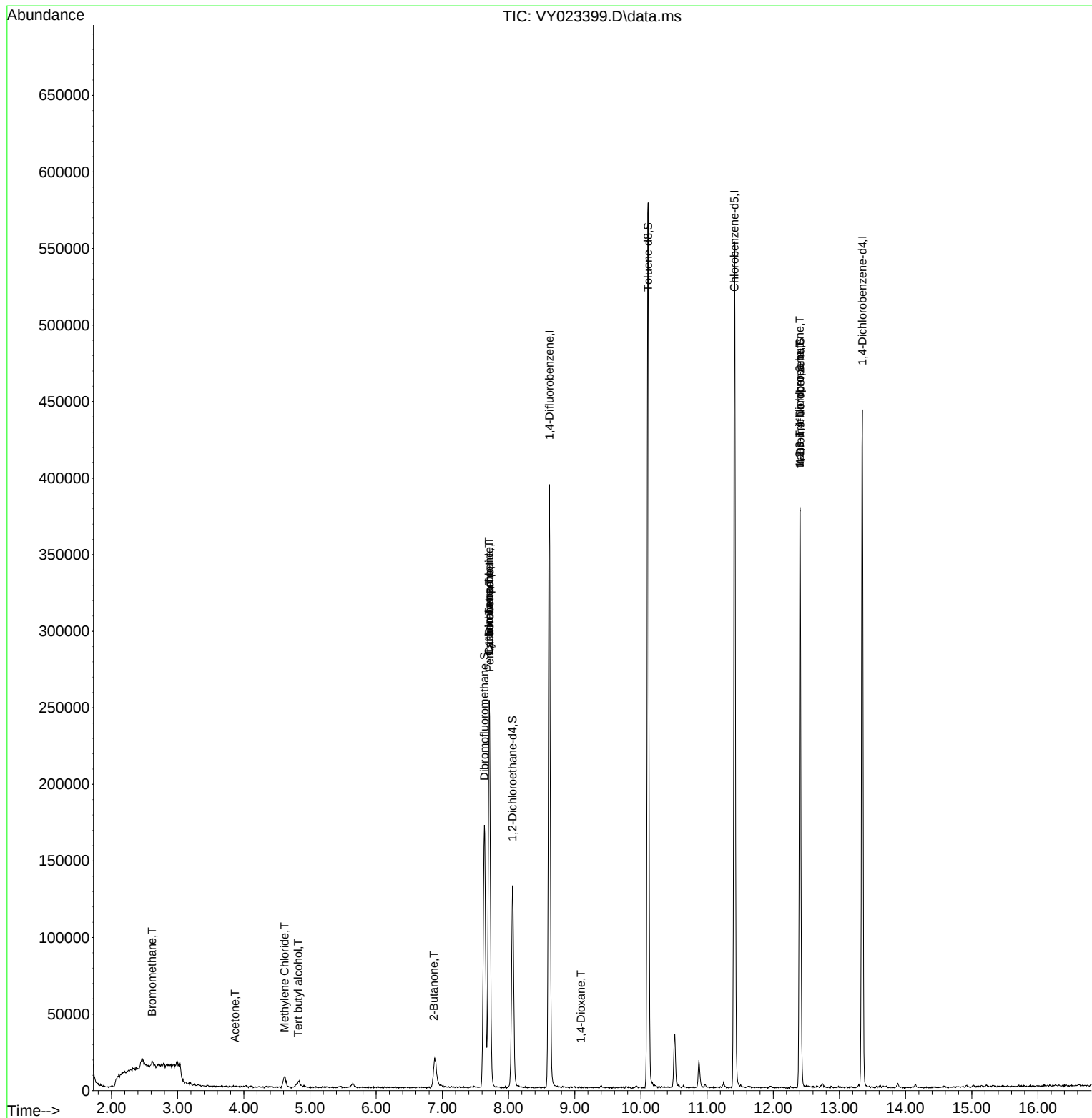
Internal Standards						
1) Pentafluorobenzene	7.713	168	209858	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	354932	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	317265	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	125448	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	100310	57.161	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 114.320%	
35) Dibromofluoromethane	7.634	113	125488	57.540	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 115.080%	
50) Toluene-d8	10.109	98	405392	49.914	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.820%	
62) 4-Bromofluorobenzene	12.408	95	114158	42.574	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 85.140%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.610	94	2722	1.210	ug/l	84
11) Tert butyl alcohol	4.823	59	3955	30.295	ug/l #	75
16) Acetone	3.866	43	1255	3.004	ug/l #	40
20) Methylene Chloride	4.616	84	5467	2.420	ug/l #	78
25) 2-Butanone	6.872	43	577	1.131	ug/l #	40
31) Cyclohexane	7.707	56	3378	1.157	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	14737	5.104	ug/l #	48
38) Carbon Tetrachloride	7.707	117	19678	5.621	ug/l #	16
49) 1,4-Dioxane	9.091	88	31	2.094	ug/l #	4
76) 1,2,3-Trichloropropane	12.401	75	57307	51.778	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	57307	126.969	ug/l #	15

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

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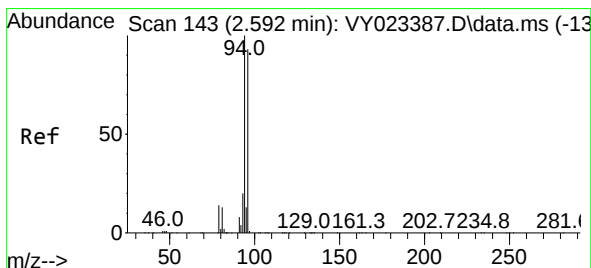
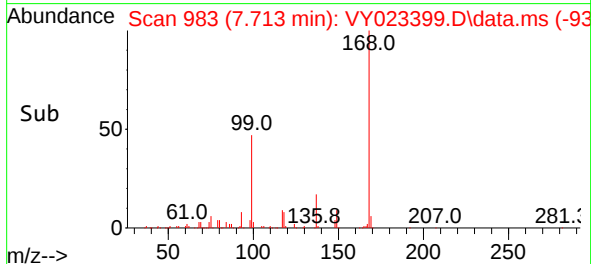
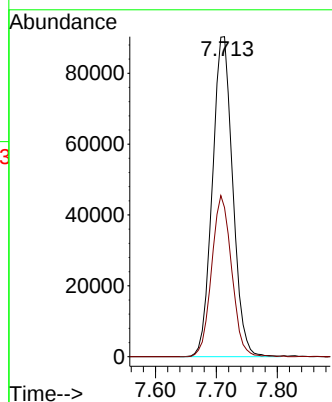
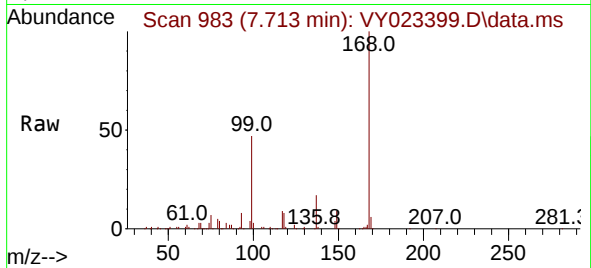




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

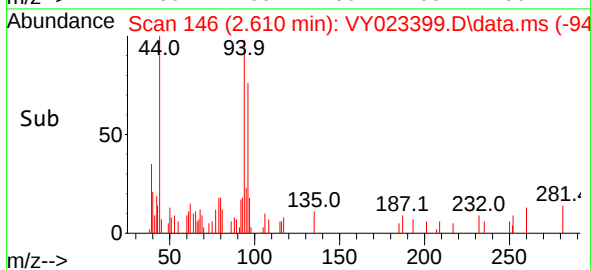
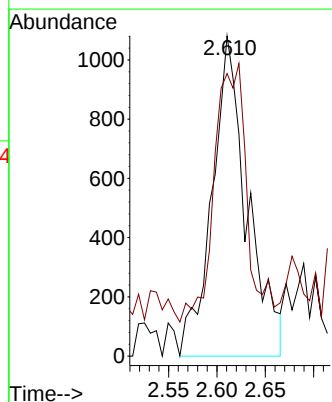
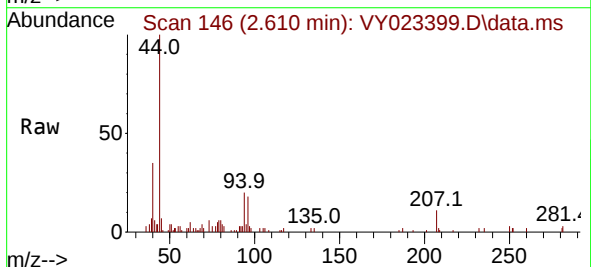
Instrument :
MSVOA_Y
ClientSampleId :
HL-EAST

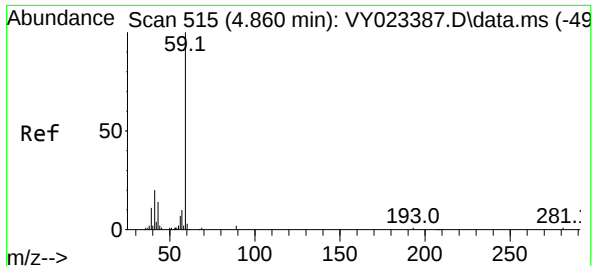
Tgt Ion:168 Resp: 209858
Ion Ratio Lower Upper
168 100
99 46.6 39.7 59.5



#5
Bromomethane
Concen: 1.210 ug/l
RT: 2.610 min Scan# 146
Delta R.T. 0.018 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

Tgt Ion: 94 Resp: 2722
Ion Ratio Lower Upper
94 100
96 77.6 74.5 111.7





#11

Tert butyl alcohol

Concen: 30.295 ug/l

RT: 4.823 min Scan# 509

Delta R.T. -0.037 min

Lab File: VY023399.D

Acq: 08 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

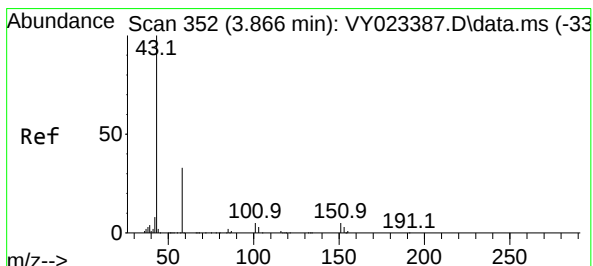
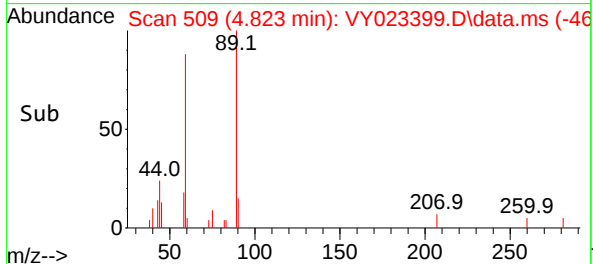
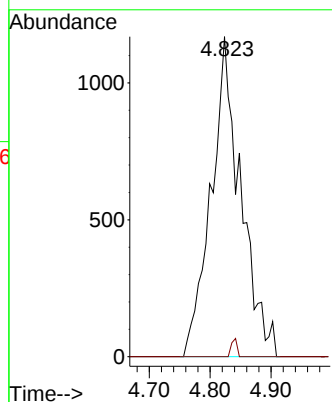
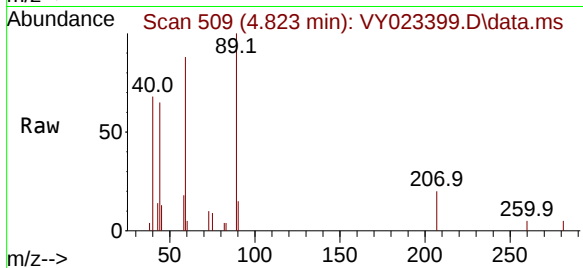
HL-EAST

Tgt Ion: 59 Resp: 3955

Ion Ratio Lower Upper

59 100

57 1.1 8.3 12.5#



#16

Acetone

Concen: 3.004 ug/l

RT: 3.866 min Scan# 352

Delta R.T. -0.000 min

Lab File: VY023399.D

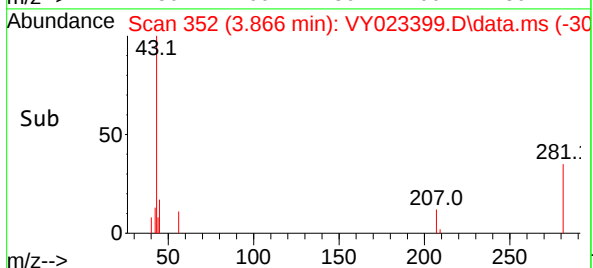
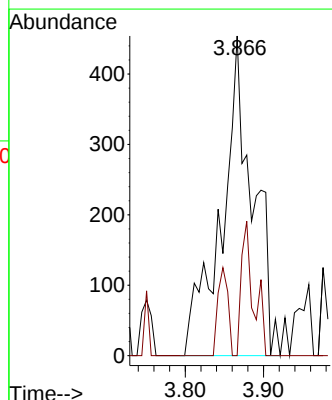
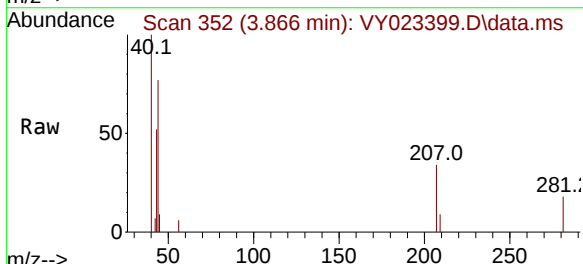
Acq: 08 Oct 2025 11:47

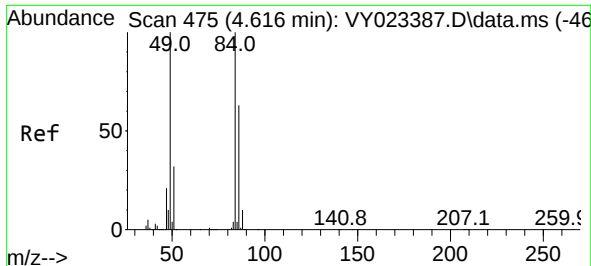
Tgt Ion: 43 Resp: 1255

Ion Ratio Lower Upper

43 100

58 0.0 27.7 41.5#

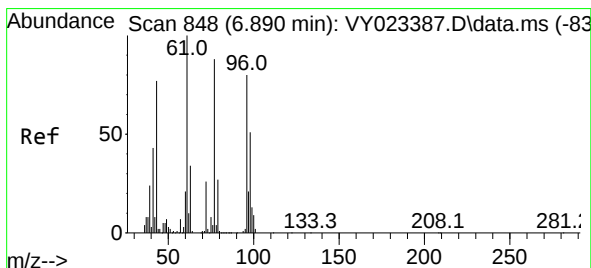
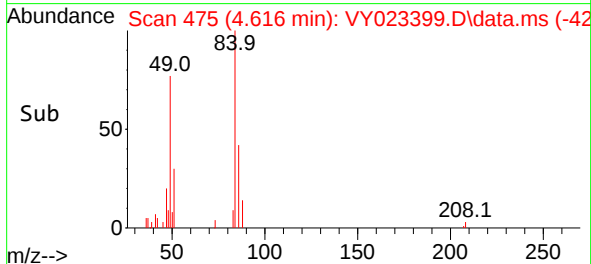
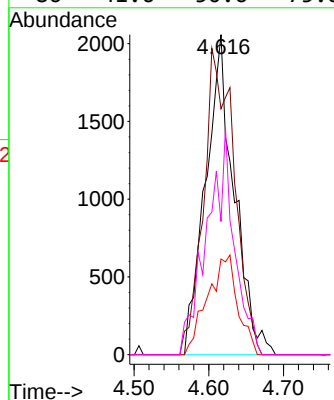
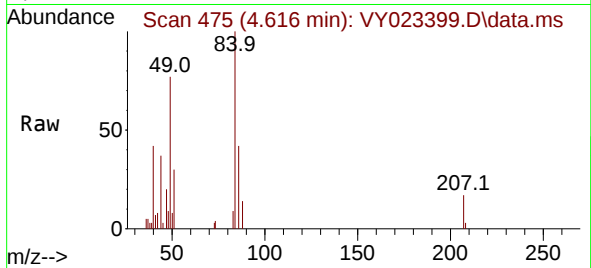




#20
Methylene Chloride
Concen: 2.420 ug/l
RT: 4.616 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

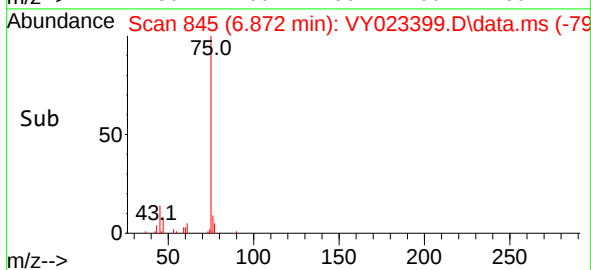
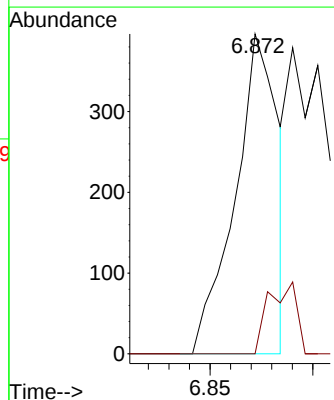
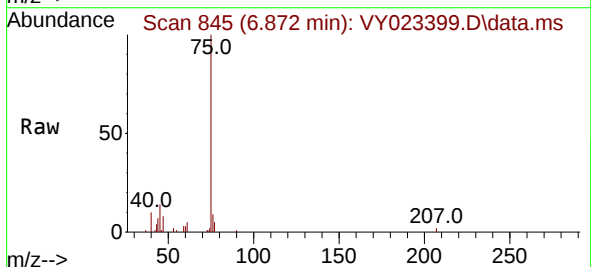
Instrument :
MSVOA_Y
ClientSampleId :
HL-EAST

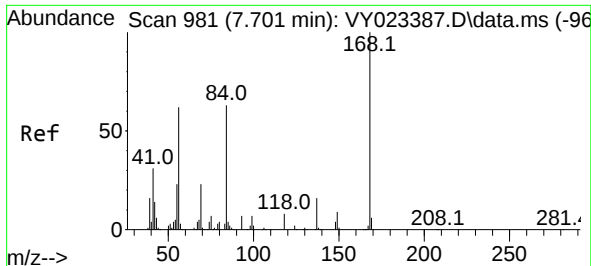
Tgt Ion:	84	Resp:	5467
Ion	Ratio	Lower	Upper
84	100		
49	76.9	80.2	120.4#
51	29.9	25.9	38.9
86	41.6	50.6	75.8#



#25
2-Butanone
Concen: 1.131 ug/l
RT: 6.872 min Scan# 845
Delta R.T. -0.018 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

Tgt Ion:	43	Resp:	577
Ion	Ratio	Lower	Upper
43	100		
72	0.0	27.4	41.2#

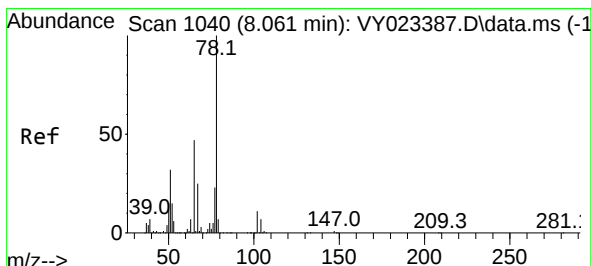
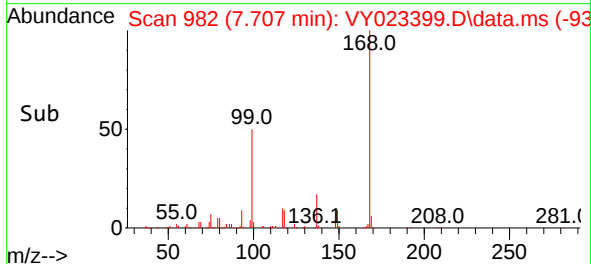
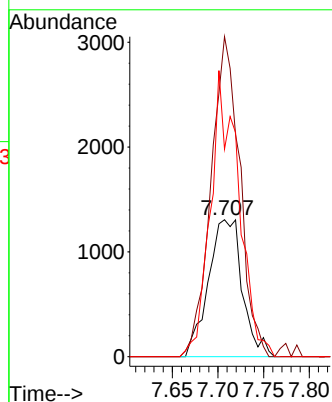
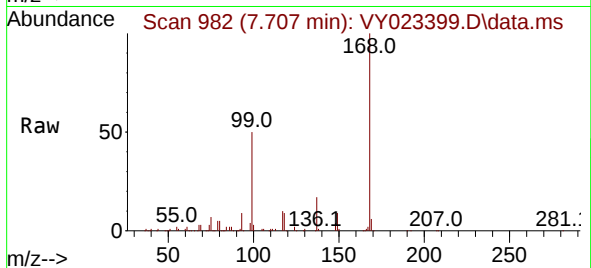




#31
Cyclohexane
Concen: 1.157 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

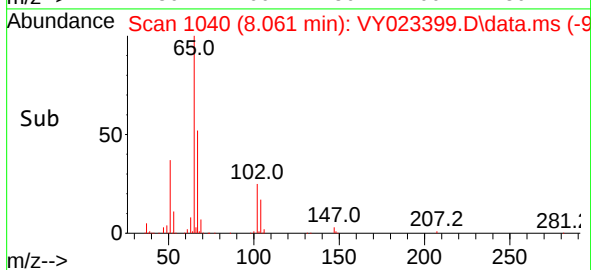
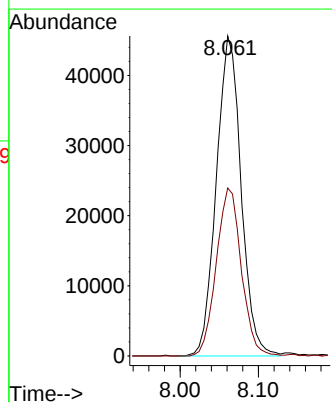
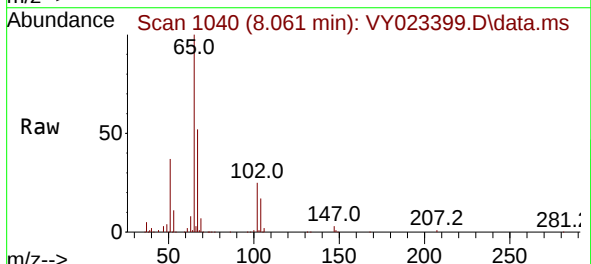
Instrument :
MSVOA_Y
ClientSampleId :
HL-EAST

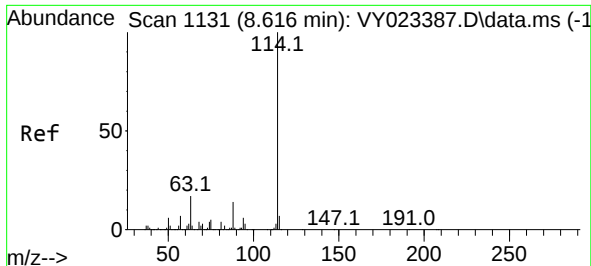
Tgt Ion: 56 Resp: 3378
Ion Ratio Lower Upper
56 100
69 233.7 30.0 45.0#
84 151.5 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 57.161 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

Tgt Ion: 65 Resp: 100310
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: VY023399.D

Acq: 08 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

HL-EAST

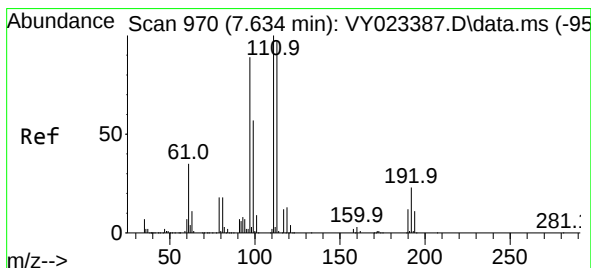
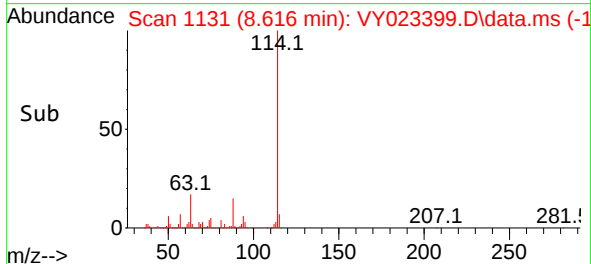
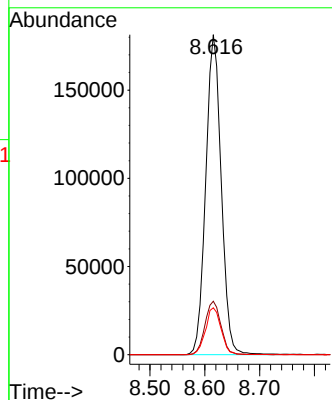
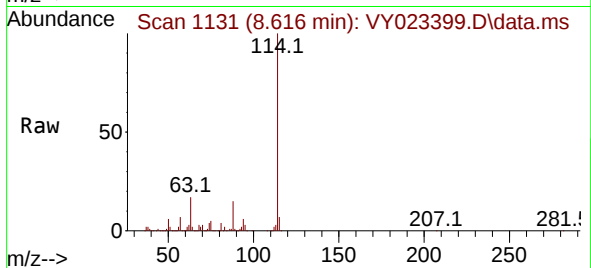
Tgt Ion:114 Resp: 354932

Ion Ratio Lower Upper

114 100

63 16.7 0.0 34.2

88 14.7 0.0 28.4



#35

Dibromofluoromethane

Concen: 57.540 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY023399.D

Acq: 08 Oct 2025 11:47

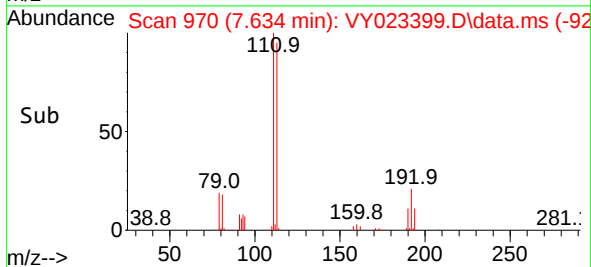
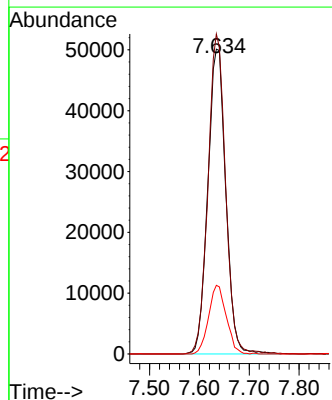
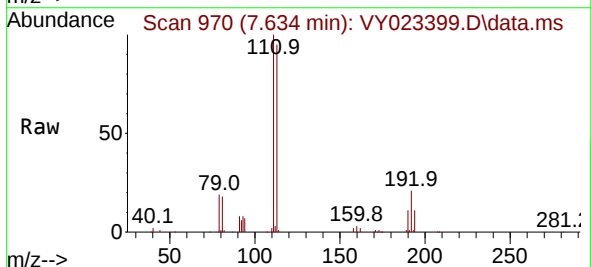
Tgt Ion:113 Resp: 125488

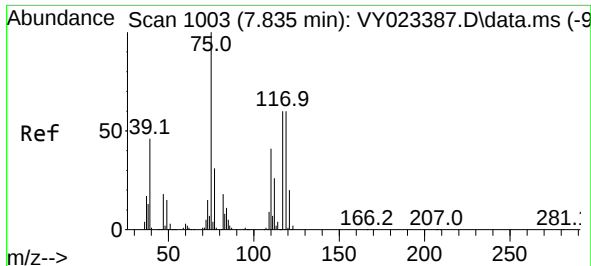
Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.6

192 22.1 18.0 27.0





#36

1,1-Dichloropropene

Concen: 5.104 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023399.D

Acq: 08 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

HL-EAST

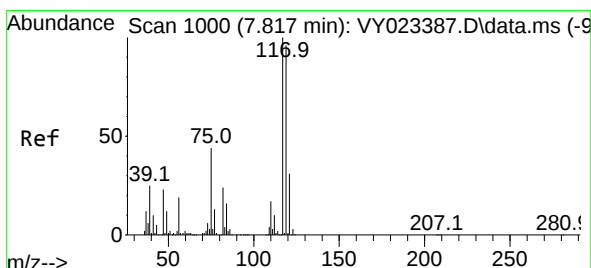
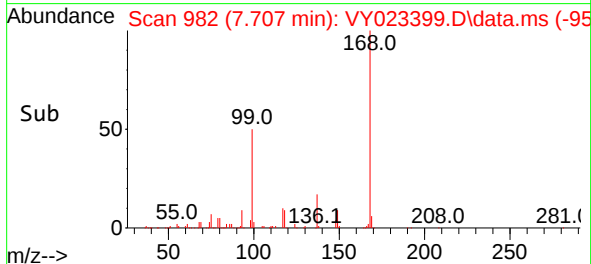
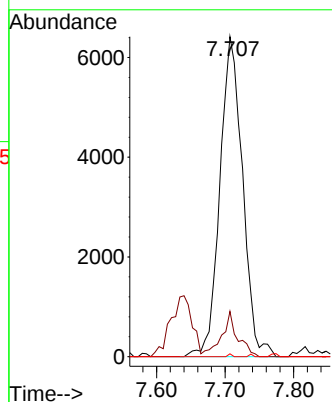
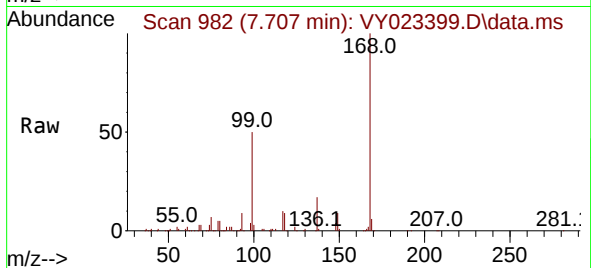
Tgt Ion: 75 Resp: 14737

Ion Ratio Lower Upper

75 100

110 9.8 19.9 59.7#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.621 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023399.D

Acq: 08 Oct 2025 11:47

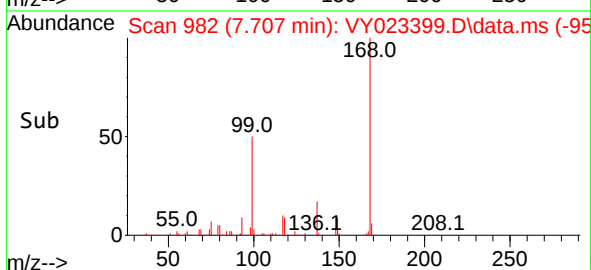
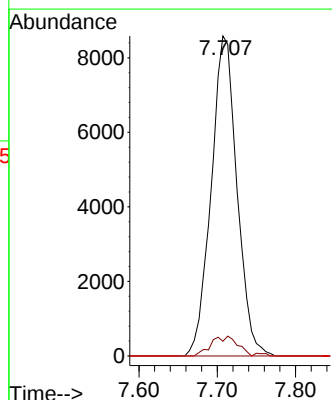
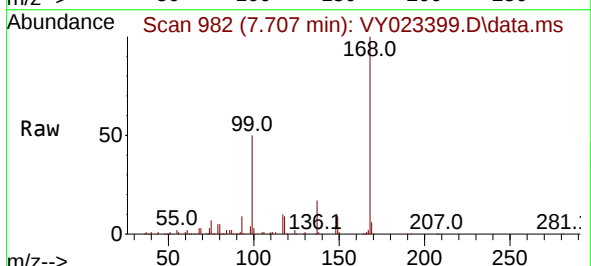
Tgt Ion: 117 Resp: 19678

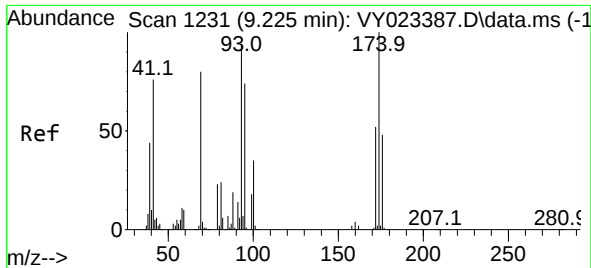
Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

121 0.0 24.5 36.7#

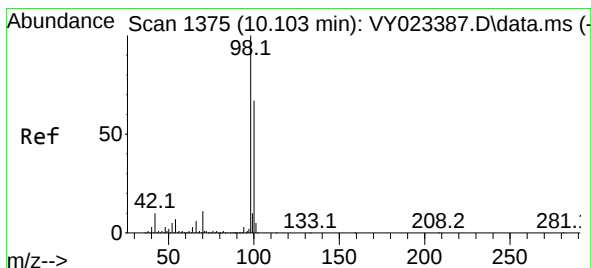
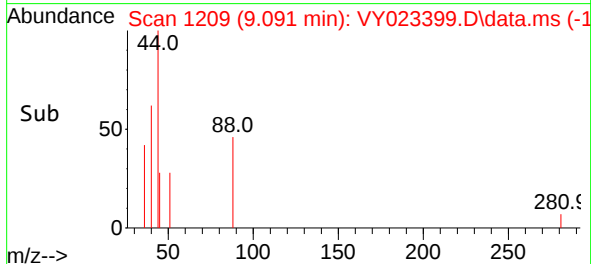
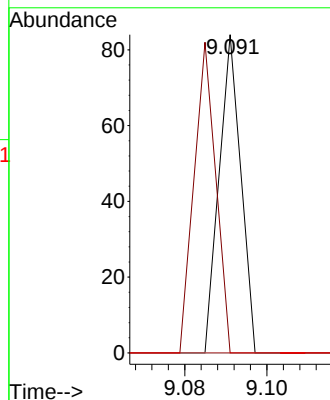
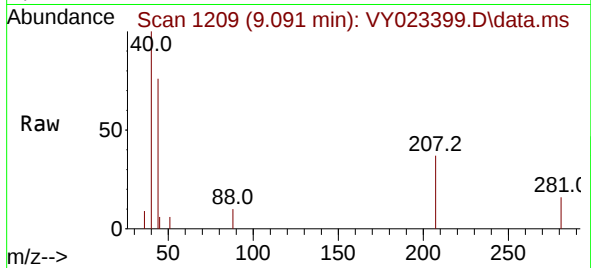




#49
1,4-Dioxane
Concen: 2.094 ug/l
RT: 9.091 min Scan# 11
Delta R.T. -0.134 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

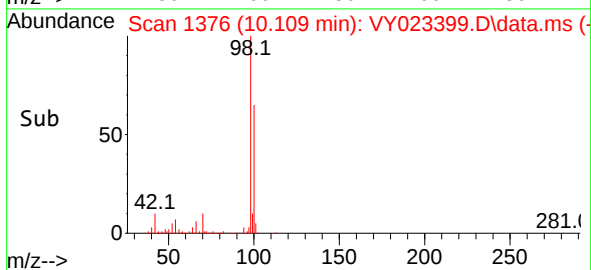
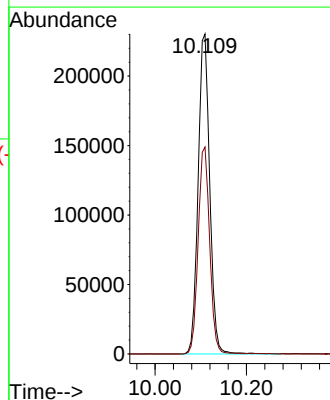
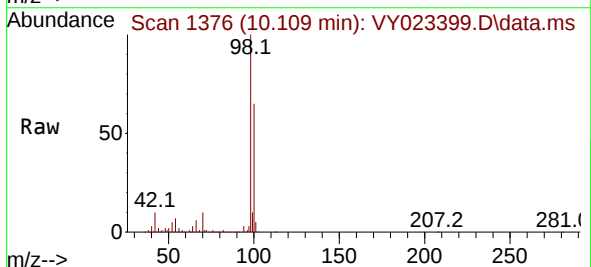
Instrument :
MSVOA_Y
ClientSampleId :
HL-EAST

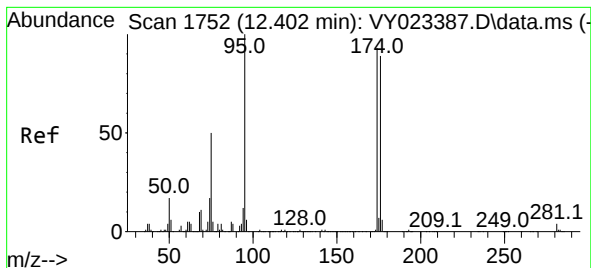
Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 96.8 21.8 32.8#
58 0.0 46.8 70.2#



#50
Toluene-d8
Concen: 49.914 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023399.D
Acq: 08 Oct 2025 11:47

Tgt Ion: 98 Resp: 405392
Ion Ratio Lower Upper
98 100
100 64.1 53.0 79.4





#62

4-Bromofluorobenzene

Concen: 42.574 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023399.D

Acq: 08 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

HL-EAST

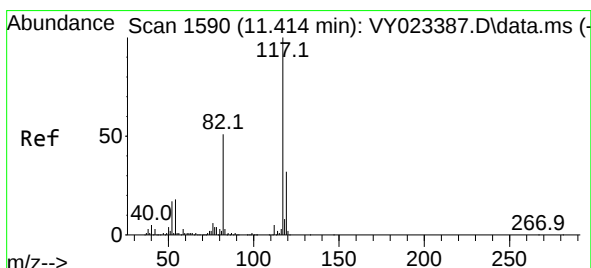
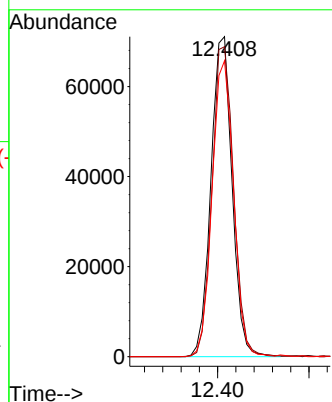
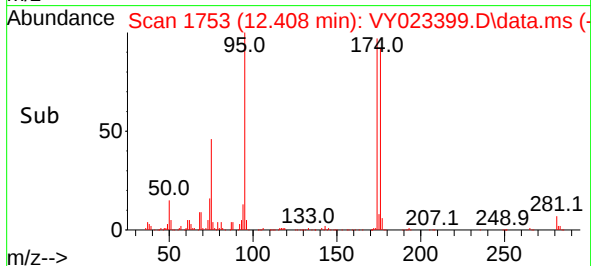
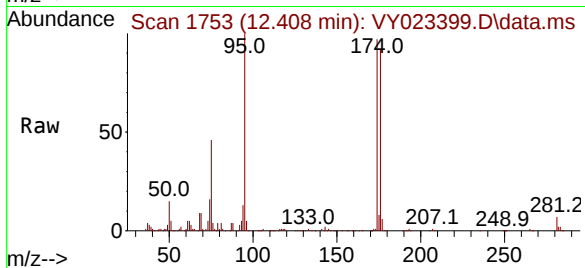
Tgt Ion: 95 Resp: 114158

Ion Ratio Lower Upper

95 100

174 99.1 0.0 192.8

176 93.7 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: VY023399.D

Acq: 08 Oct 2025 11:47

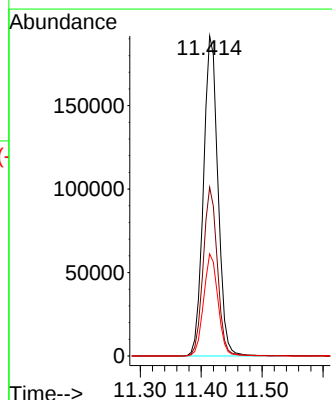
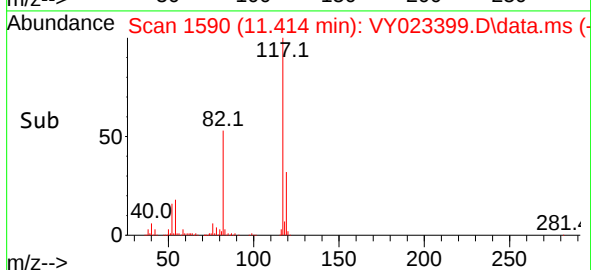
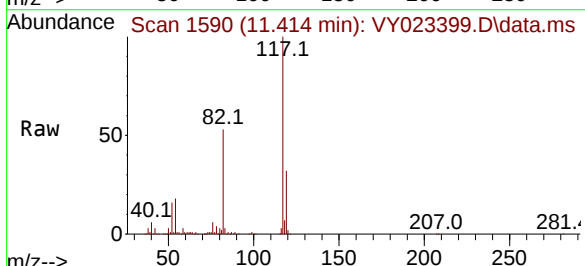
Tgt Ion: 117 Resp: 317265

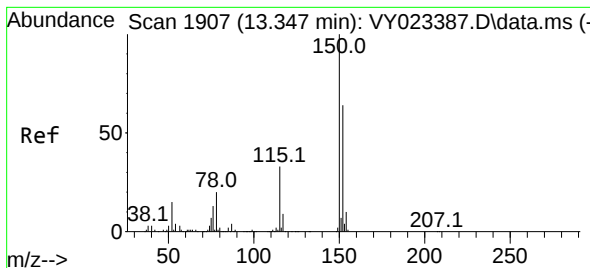
Ion Ratio Lower Upper

117 100

82 52.7 41.0 61.4

119 31.9 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: VY023399.D

Acq: 08 Oct 2025 11:47

Instrument :

MSVOA_Y

ClientSampleId :

HL-EAST

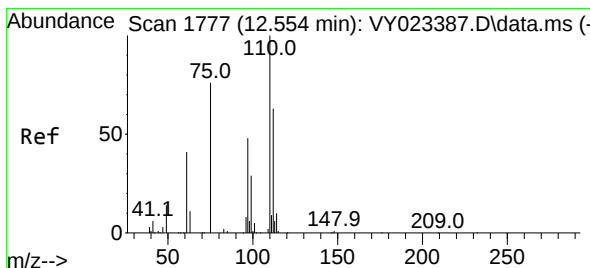
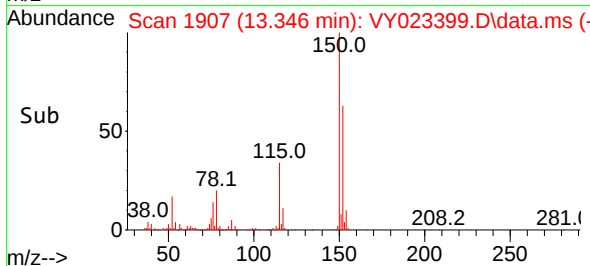
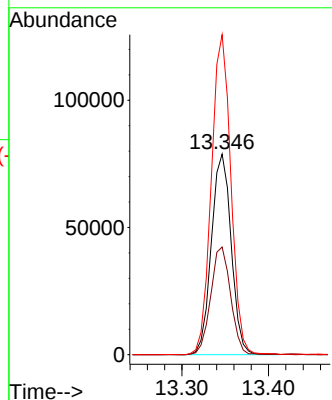
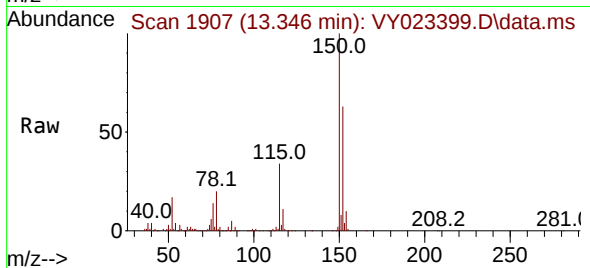
Tgt Ion:152 Resp: 125448

Ion Ratio Lower Upper

152 100

115 53.9 27.1 81.2

150 156.9 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 51.778 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY023399.D

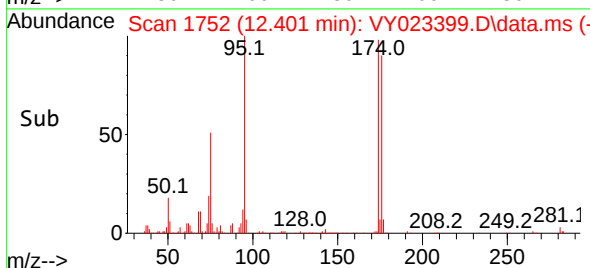
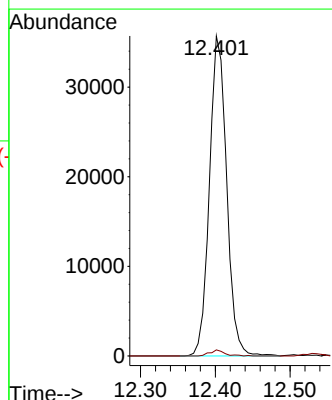
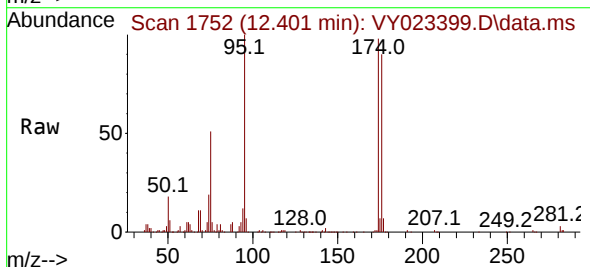
Acq: 08 Oct 2025 11:47

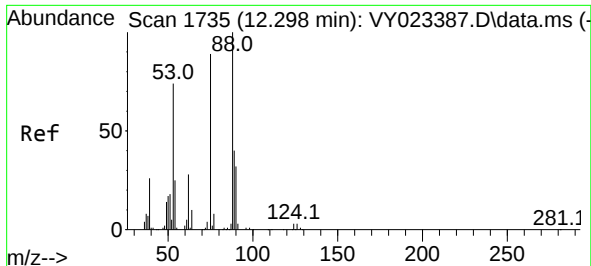
Tgt Ion: 75 Resp: 57307

Ion Ratio Lower Upper

75 100

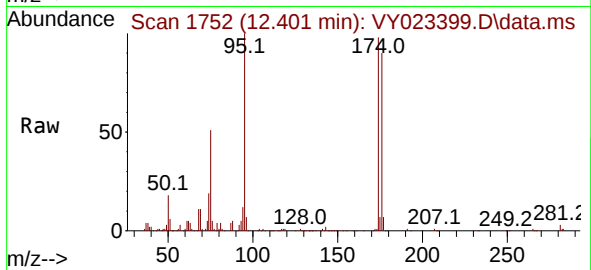
77 1.6 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 126.969 ug/l
 RT: 12.401 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY023399.D
 Acq: 08 Oct 2025 11:47

Instrument :
 MSVOA_Y
 ClientSampleId :
 HL-EAST



Tgt Ion: 75 Resp: 57307
 Ion Ratio Lower Upper
 75 100
 53 0.3 68.6 102.8#
 89 0.0 39.0 58.4#

