

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
 Data File : VY023081.D
 Acq On : 13 Aug 2025 19:38
 Operator : SY/MD
 Sample : Q2819-19
 Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 38M-E

Quant Time: Aug 14 01:29:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

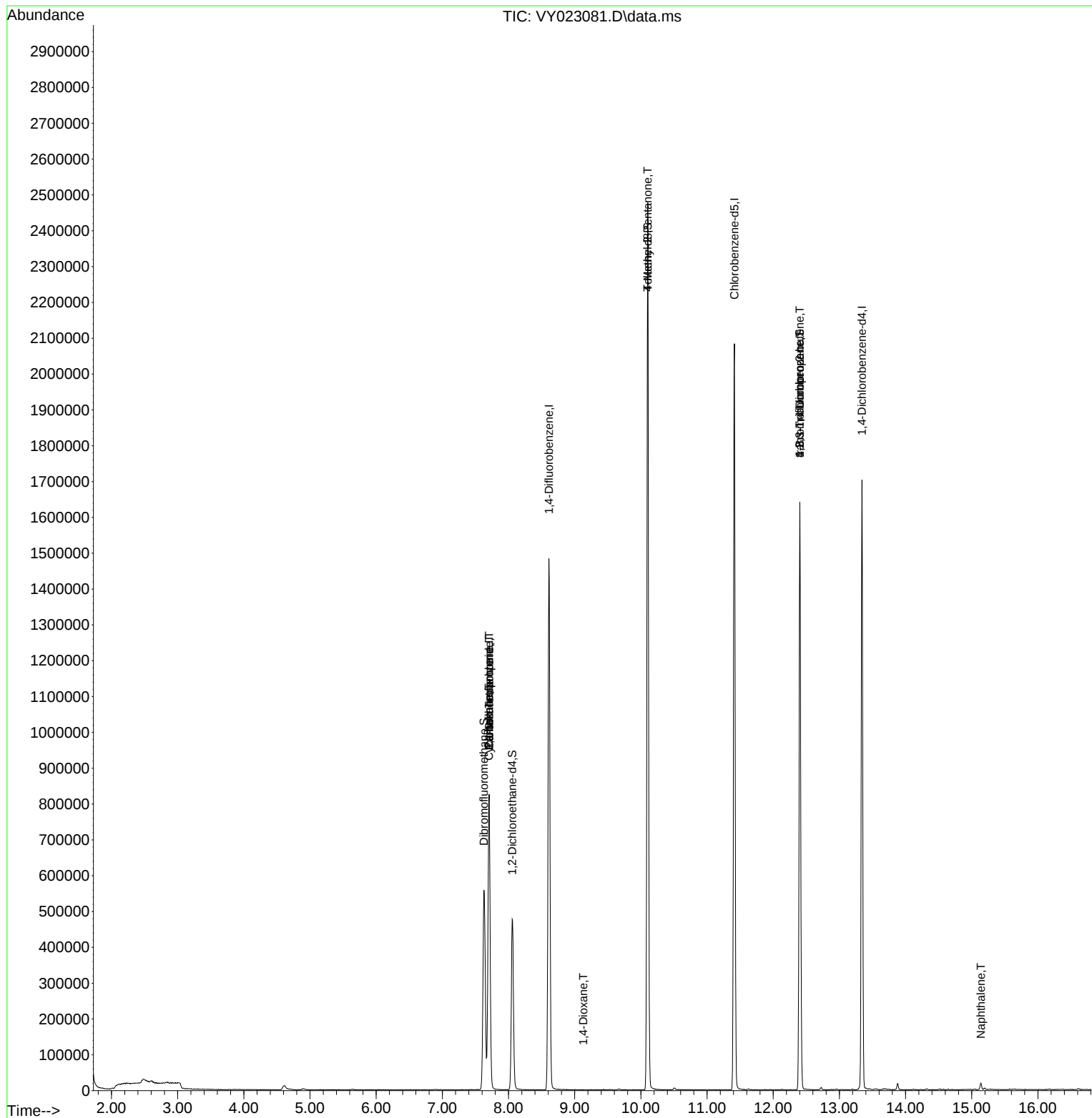
Internal Standards						
1) Pentafluorobenzene	7.707	168	641351	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	1276856	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1106347	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	424298	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	379278	62.049	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	124.100%
35) Dibromofluoromethane	7.628	113	407347	53.316	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	106.640%
50) Toluene-d8	10.103	98	1563625	52.387	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	104.780%
62) 4-Bromofluorobenzene	12.402	95	438170	45.648	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	91.300%
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.610	84	8877	Below Cal		86
31) Cyclohexane	7.701	56	13246	1.163	ug/l #	11
36) 1,1-Dichloropropene	7.707	75	51168	4.506	ug/l #	49
38) Carbon Tetrachloride	7.707	117	63861	5.178	ug/l #	17
49) 1,4-Dioxane	9.128	88	56	1.033	ug/l #	32
51) 4-Methyl-2-Pentanone	10.103	43	6519	1.311	ug/l #	1
76) 1,2,3-Trichloropropane	12.402	75	234831	57.347	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	234831	138.818	ug/l #	14
95) Naphthalene	15.139	128	15363	1.233	ug/l	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-E

Quant Time: Aug 14 01:29:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

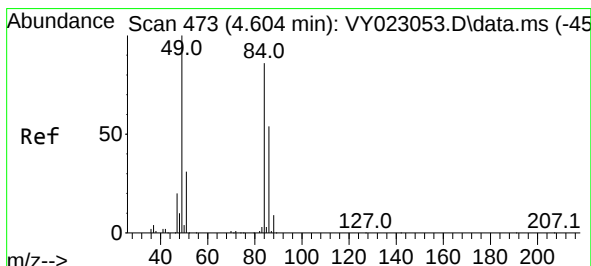
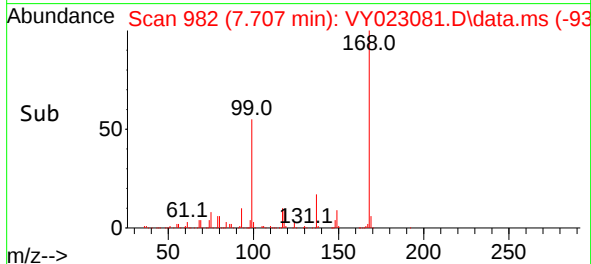
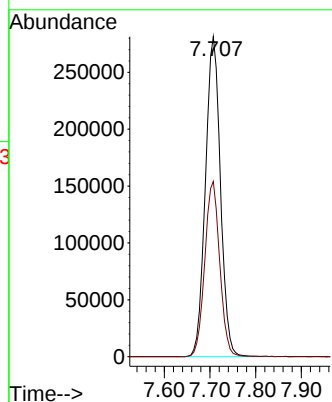
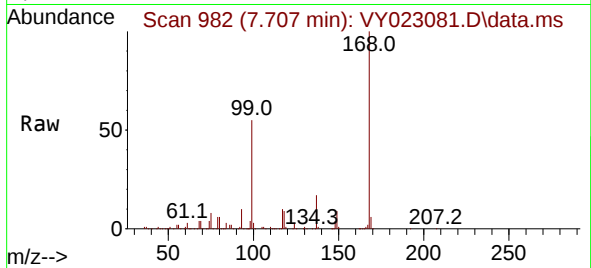




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

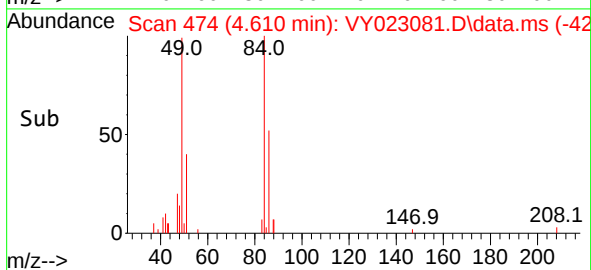
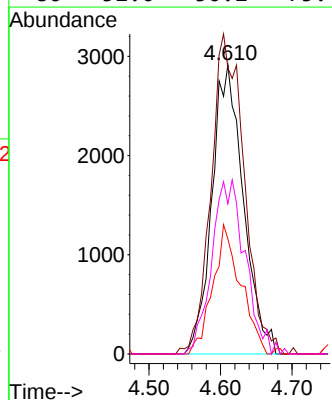
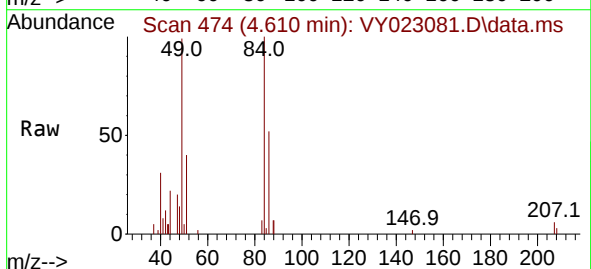
Instrument :
MSVOA_Y
ClientSampleId :
38M-E

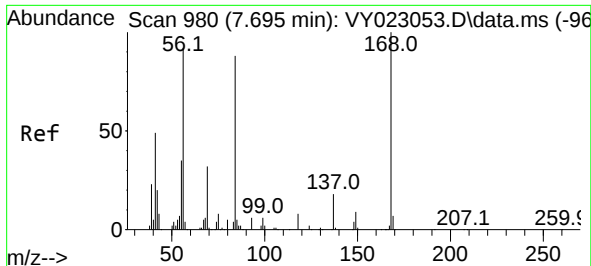
Tgt Ion:168 Resp: 641351
Ion Ratio Lower Upper
168 100
99 54.7 42.8 64.2



#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion: 84 Resp: 8877
Ion Ratio Lower Upper
84 100
49 98.9 93.0 139.6
51 39.8 29.0 43.4
86 52.0 50.2 75.4

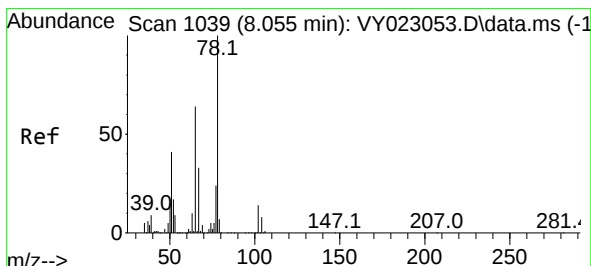
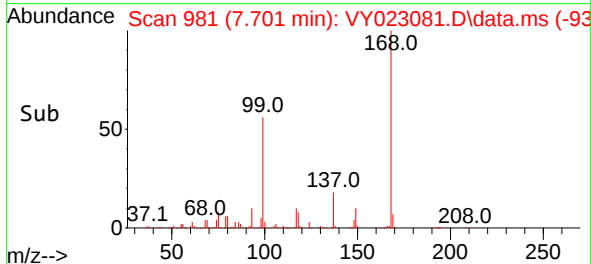
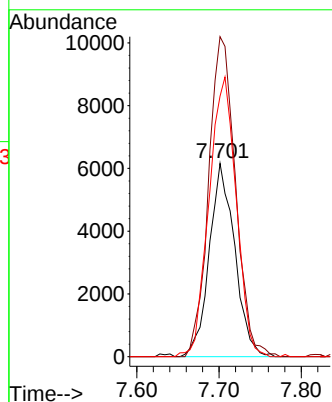
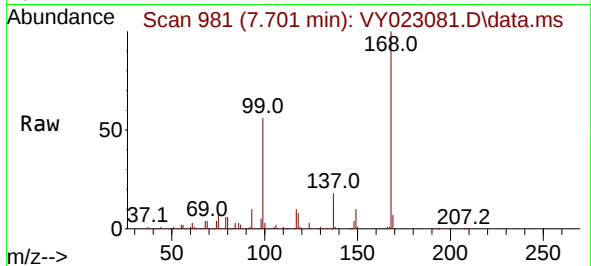




#31
Cyclohexane
Concen: 1.163 ug/l
RT: 7.701 min Scan# 980
Delta R.T. 0.006 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

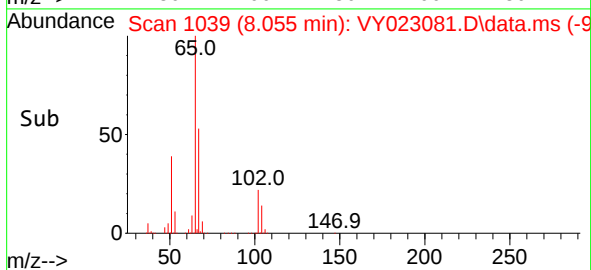
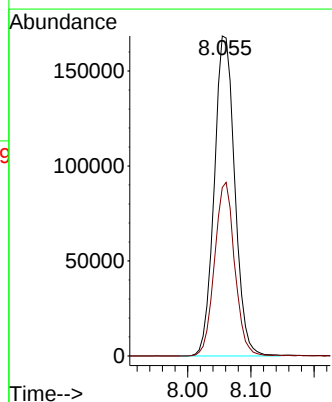
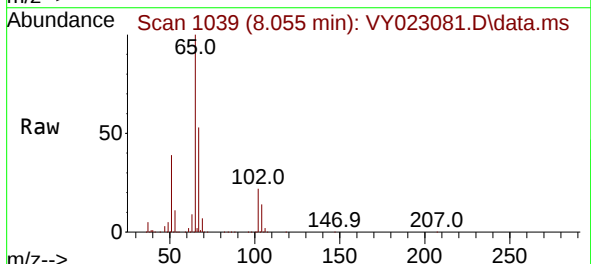
Instrument :
MSVOA_Y
ClientSampleId :
38M-E

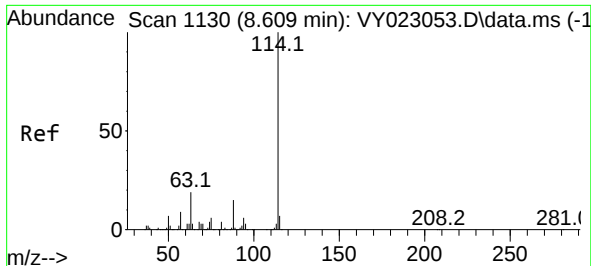
Tgt Ion: 56 Resp: 13246
Ion Ratio Lower Upper
56 100
69 165.5 28.2 42.2#
84 134.7 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 62.049 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion: 65 Resp: 379278
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

Instrument :

MSVOA_Y

ClientSampleId :

38M-E

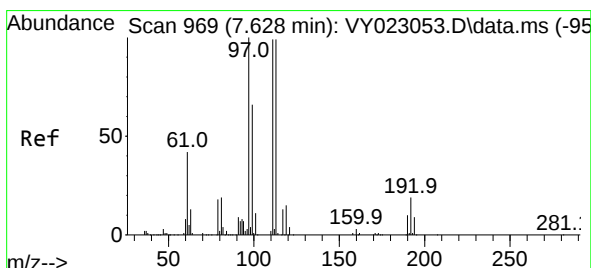
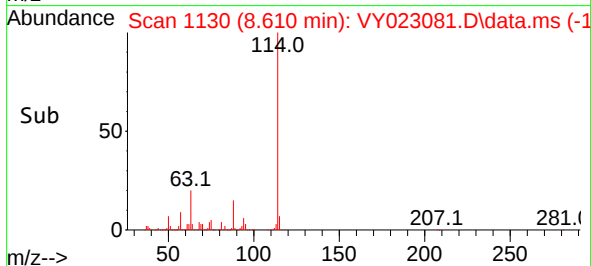
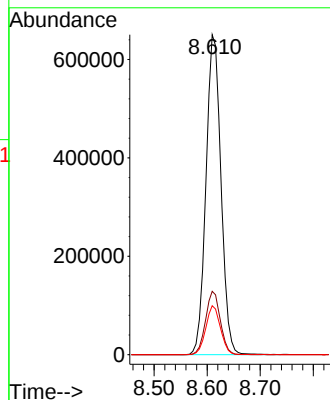
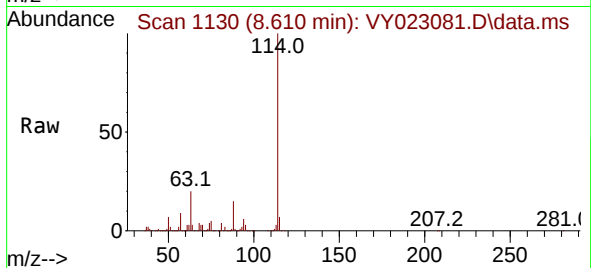
Tgt Ion:114 Resp: 1276856

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.4

88 15.3 0.0 30.0



#35

Dibromofluoromethane

Concen: 53.316 ug/l

RT: 7.628 min Scan# 969

Delta R.T. 0.000 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

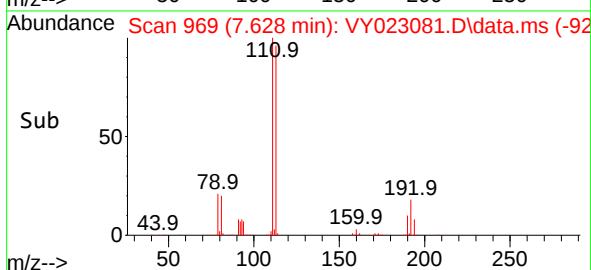
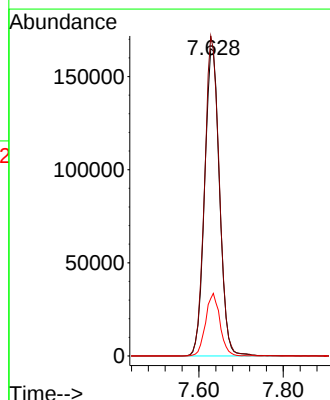
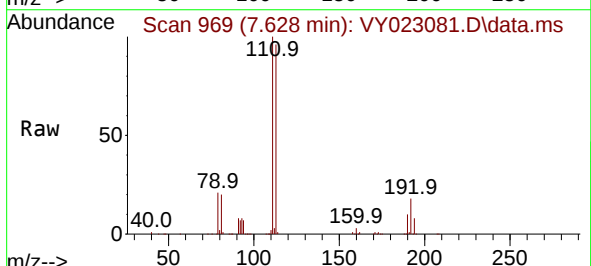
Tgt Ion:113 Resp: 407347

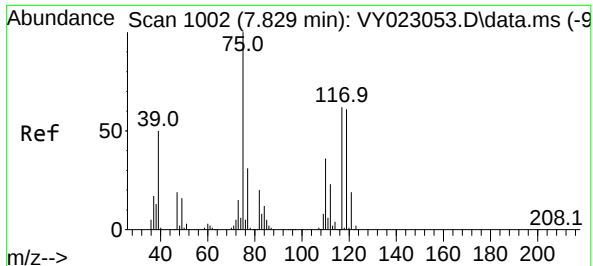
Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

192 19.6 16.2 24.4





#36

1,1-Dichloropropene

Concen: 4.506 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.122 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

Instrument :

MSVOA_Y

ClientSampleId :

38M-E

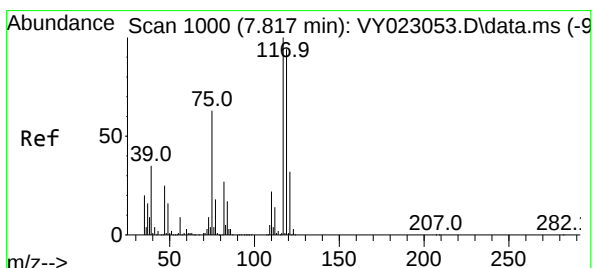
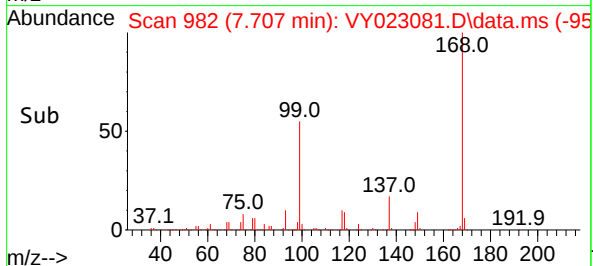
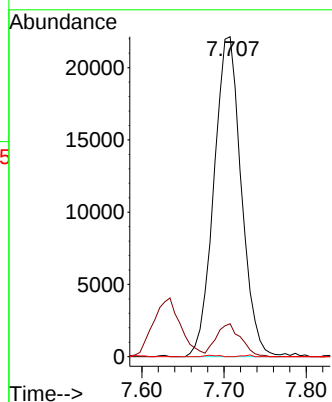
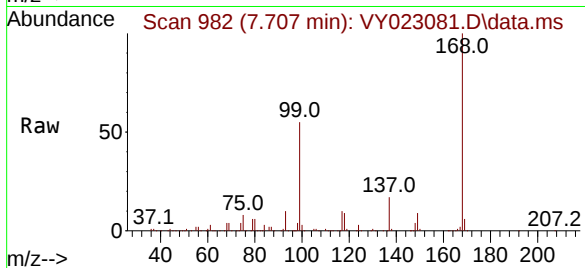
Tgt Ion: 75 Resp: 51168

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.4#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.178 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

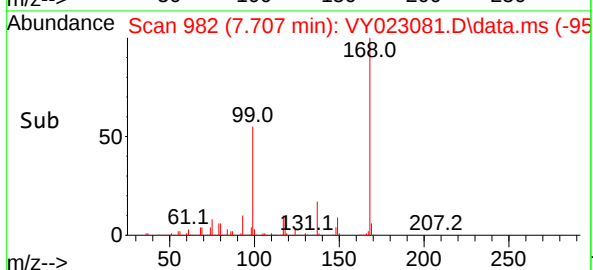
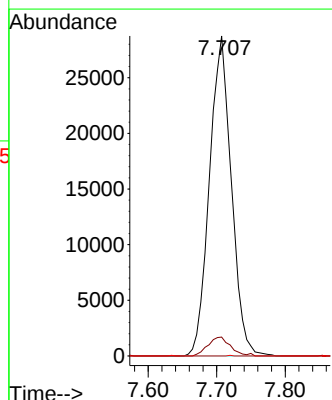
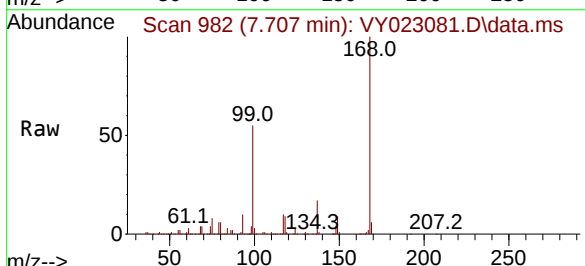
Tgt Ion: 117 Resp: 63861

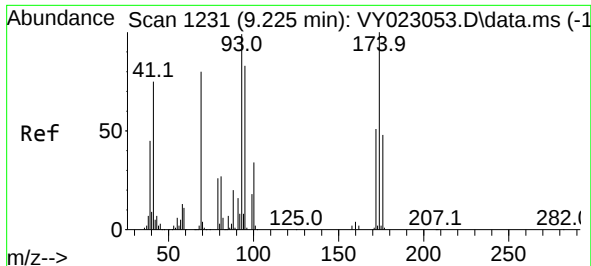
Ion Ratio Lower Upper

117 100

119 5.9 75.6 113.4#

121 0.0 25.8 38.8#





#49

1,4-Dioxane

Concen: 1.033 ug/l

RT: 9.128 min Scan# 11

Delta R.T. -0.097 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

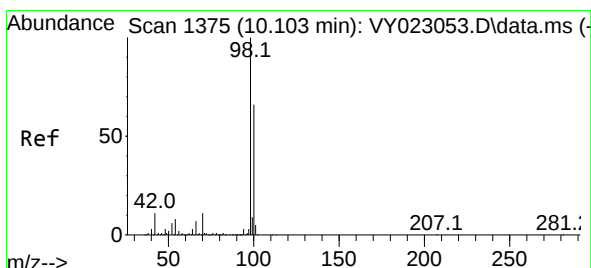
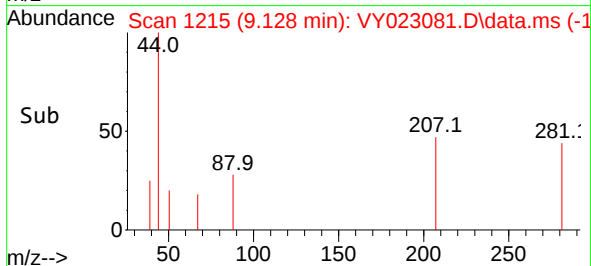
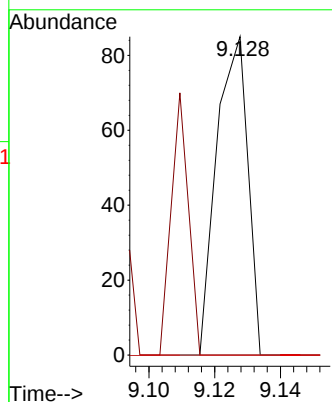
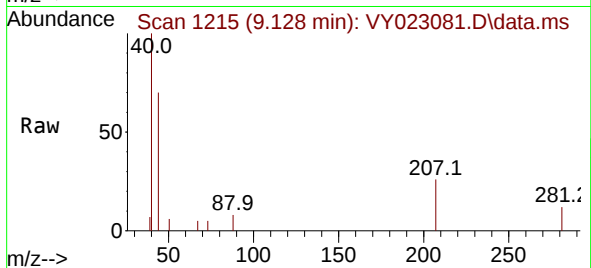
Instrument :

MSVOA_Y

ClientSampleId :

38M-E

Tgt Ion: 88	Resp: 56
Ion Ratio	Lower Upper
88 100	
43 46.4	24.3 36.5#
58 0.0	55.4 83.0#



#50

Toluene-d8

Concen: 52.387 ug/l

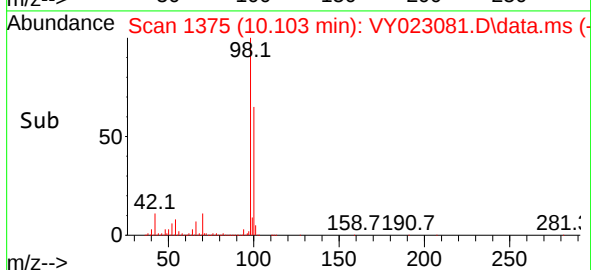
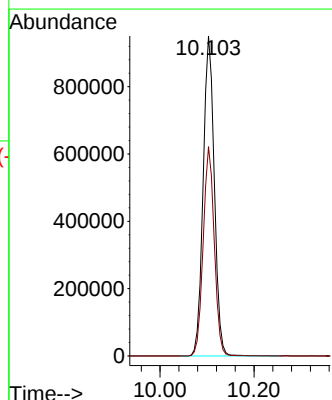
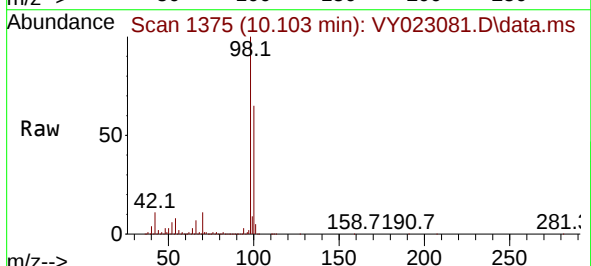
RT: 10.103 min Scan# 1375

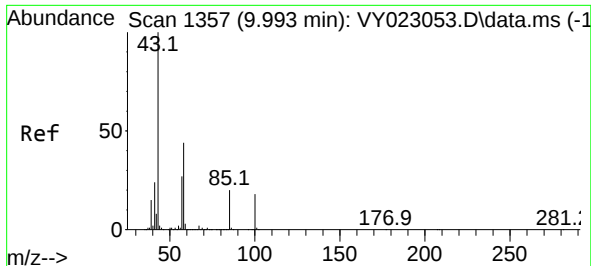
Delta R.T. 0.000 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

Tgt Ion: 98	Resp: 1563625
Ion Ratio	Lower Upper
98 100	
100 64.9	52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 1.311 ug/l

RT: 10.103 min Scan# 11

Delta R.T. 0.110 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

Instrument :

MSVOA_Y

ClientSampleId :

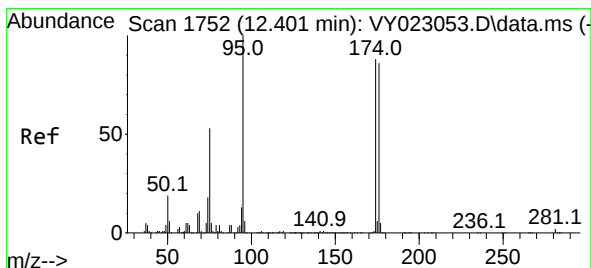
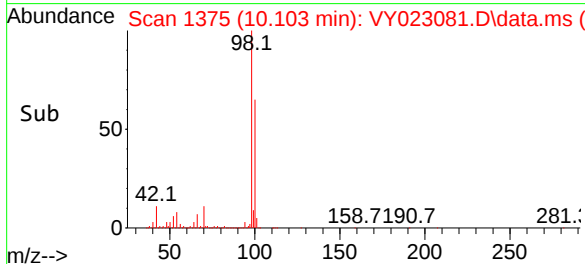
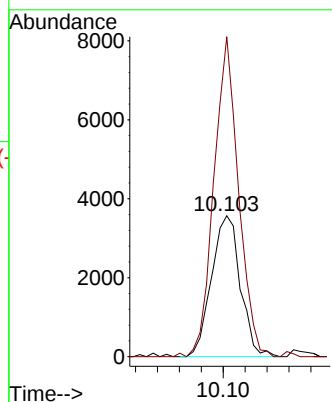
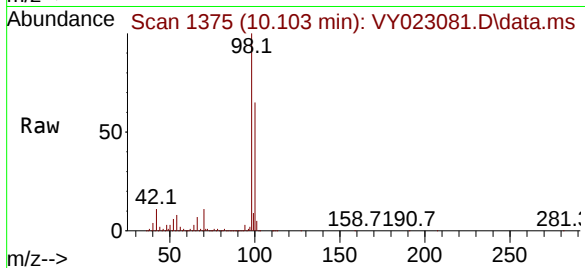
38M-E

Tgt Ion: 43 Resp: 6519

Ion Ratio Lower Upper

43 100

58 194.0 33.5 50.3#



#62

4-Bromofluorobenzene

Concen: 45.648 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

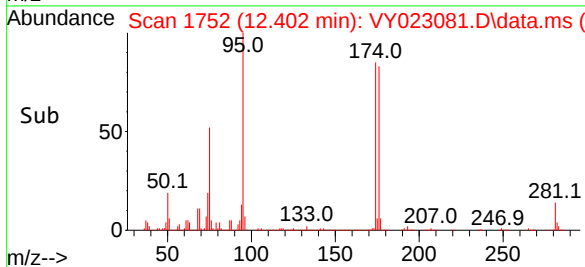
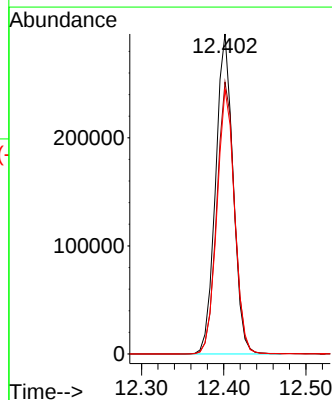
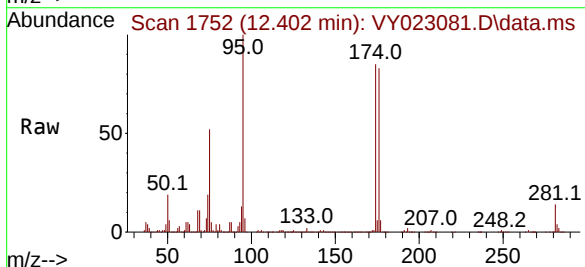
Tgt Ion: 95 Resp: 438170

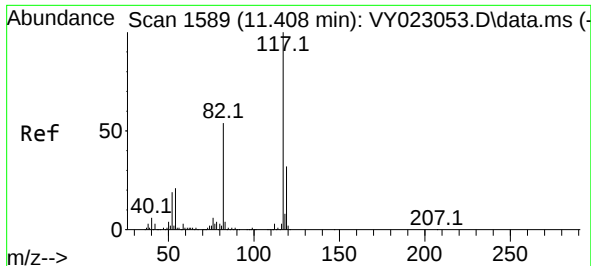
Ion Ratio Lower Upper

95 100

174 86.1 0.0 171.6

176 83.5 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

Instrument :

MSVOA_Y

ClientSampleId :

38M-E

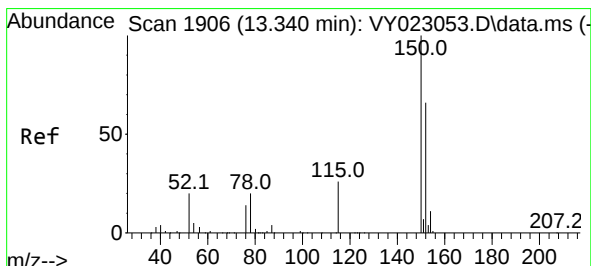
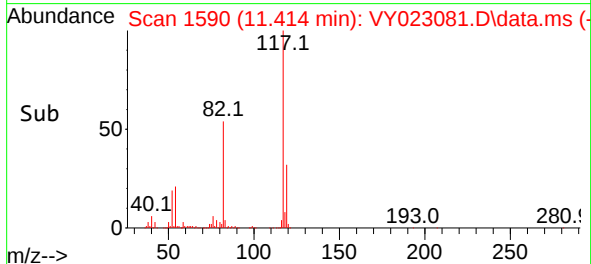
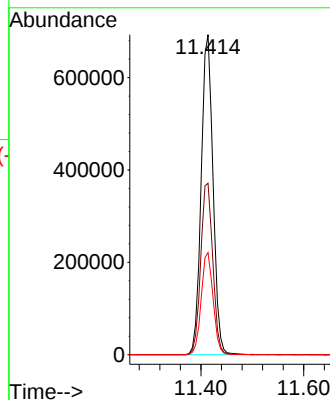
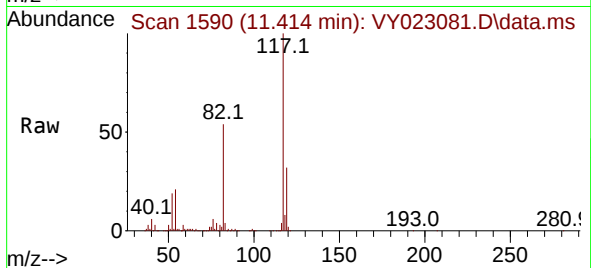
Tgt Ion:117 Resp: 1106347

Ion Ratio Lower Upper

117 100

82 53.6 43.4 65.0

119 31.9 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023081.D

Acq: 13 Aug 2025 19:38

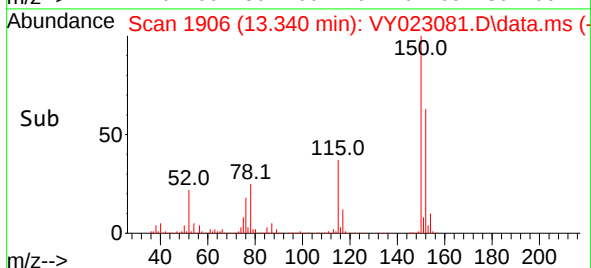
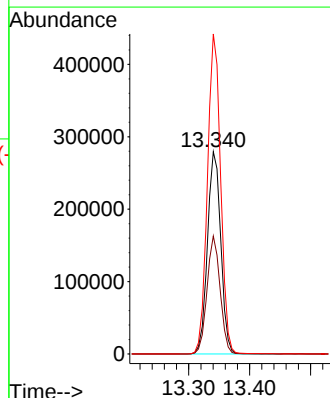
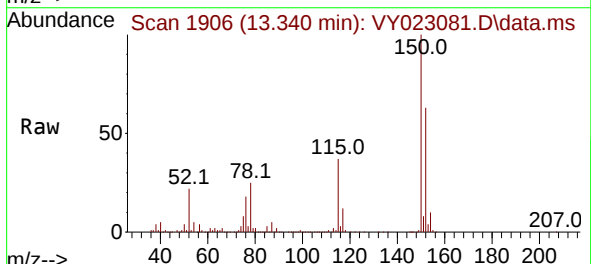
Tgt Ion:152 Resp: 424298

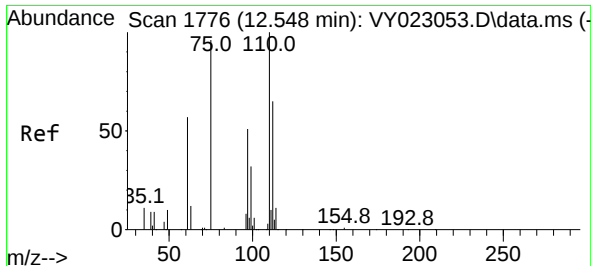
Ion Ratio Lower Upper

152 100

115 57.3 28.2 84.6

150 156.7 0.0 348.0

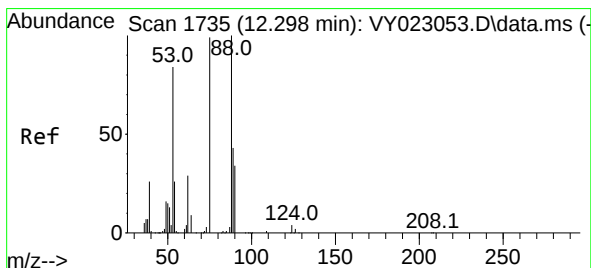
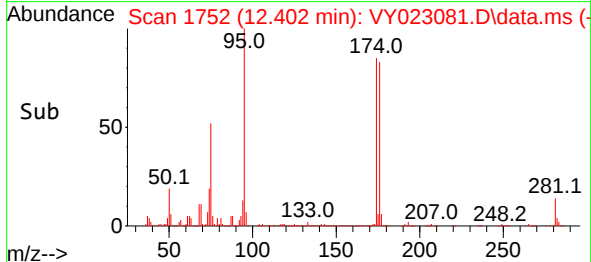
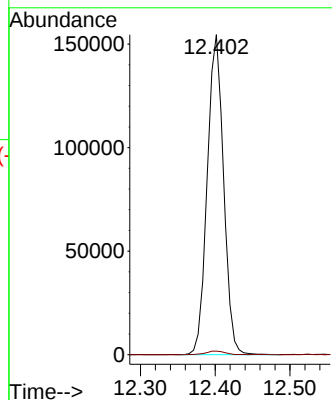
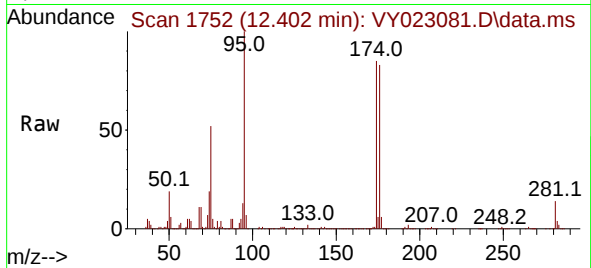




#76
1,2,3-Trichloropropane
Concen: 57.347 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

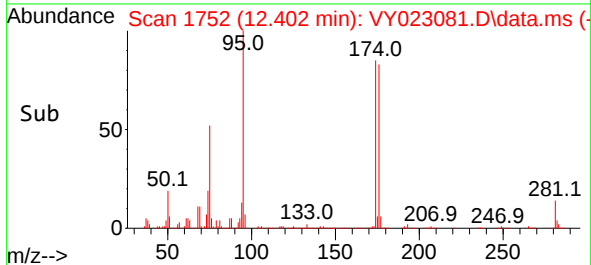
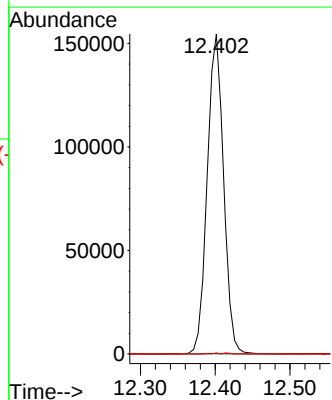
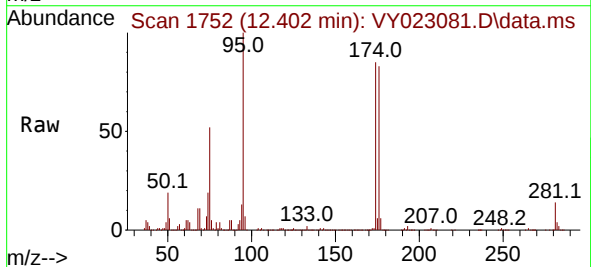
Instrument :
MSVOA_Y
ClientSampleId :
38M-E

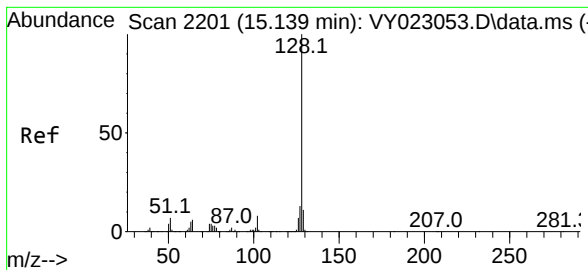
Tgt Ion: 75 Resp: 234831
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 138.818 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion: 75 Resp: 234831
Ion Ratio Lower Upper
75 100
53 0.2 70.8 106.2#
89 0.1 38.1 57.1#





#95
 Naphthalene
 Concen: 1.233 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY023081.D
 Acq: 13 Aug 2025 19:38

Instrument :
 MSVOA_Y
 ClientSampleId :
 38M-E

Tgt Ion:	128	Resp:	15363
Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.4	15.6
129	10.3	9.0	13.4

