

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
 Data File : VY022375.D
 Acq On : 21 May 2025 18:15
 Operator : SY/MD
 Sample : Q2101-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-1-MHE-VOC

Quant Time: May 22 00:14:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.720	168	24785	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	37865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	25017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	6889	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	10434	38.519	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	77.040%
35) Dibromofluoromethane	7.640	113	10034	44.398	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	88.800%
50) Toluene-d8	10.115	98	42510	45.927	ug/l	0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.860%
62) 4-Bromofluorobenzene	12.408	95	8787	29.951	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	59.900%

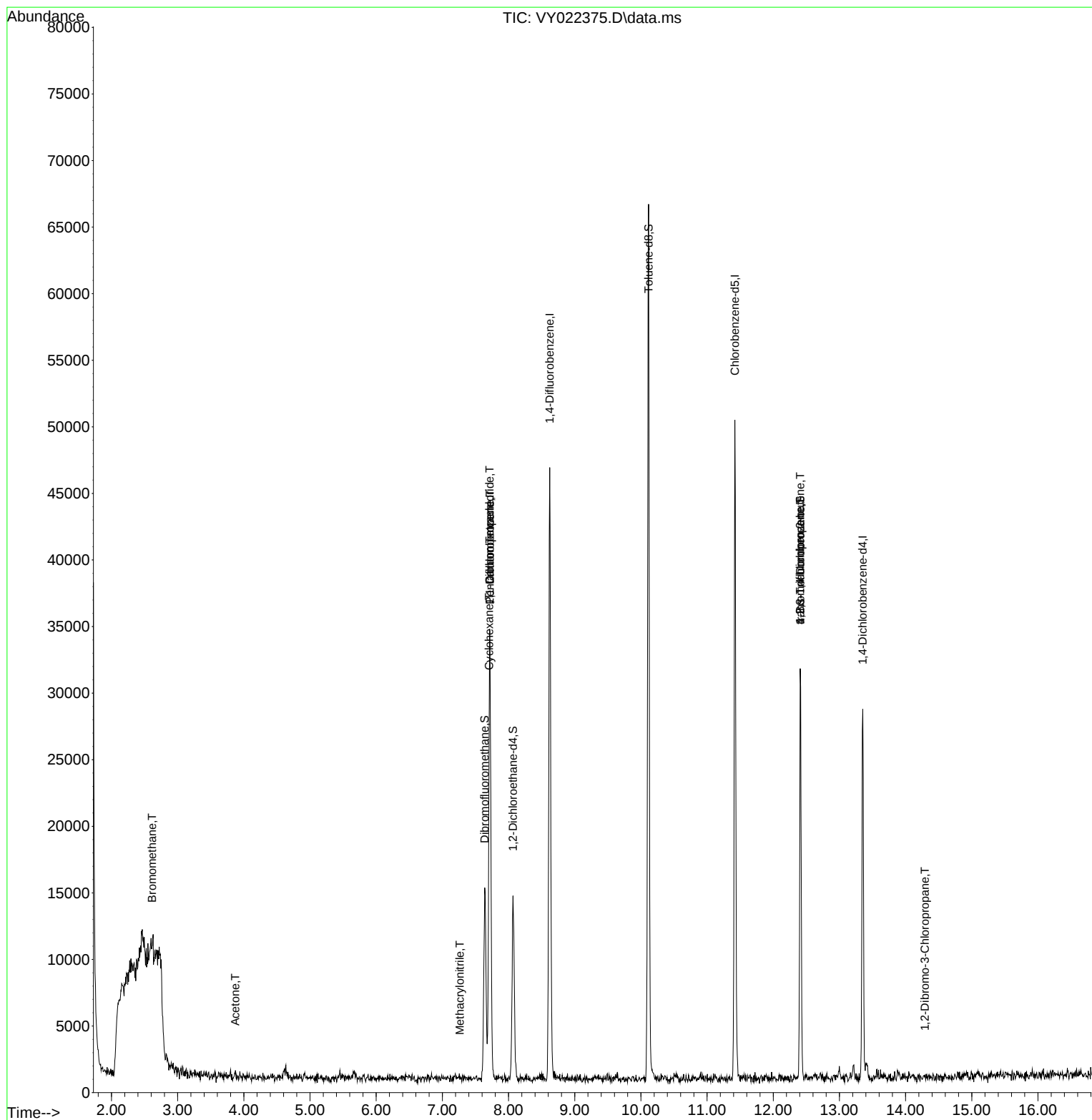
Target Compounds						Qvalue
5) Bromomethane	2.611	94	647	1.308	ug/l	98
16) Acetone	3.873	43	480	9.450	ug/l #	45
31) Cyclohexane	7.707	56	603	1.100	ug/l #	49
36) 1,1-Dichloropropene	7.720	75	2238	6.012	ug/l #	48
38) Carbon Tetrachloride	7.713	117	2477	6.428	ug/l #	18
41) Methacrylonitrile	7.262	41	122	1.027	ug/l #	49
76) 1,2,3-Trichloropropane	12.408	75	5310	76.082	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	5310	154.124	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.292	75	19	1.342	ug/l #	1

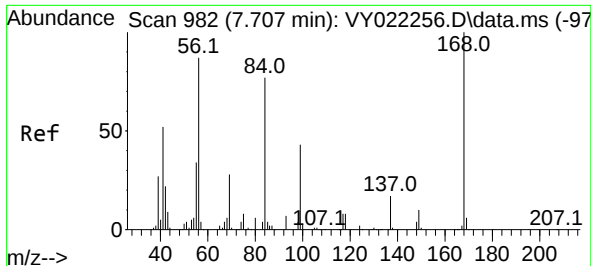
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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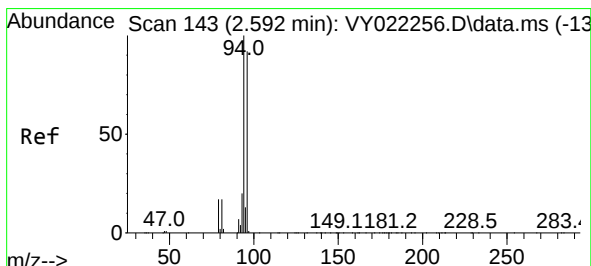
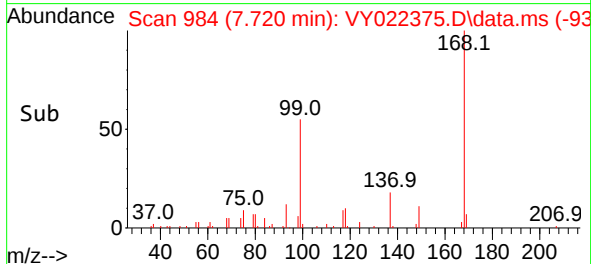
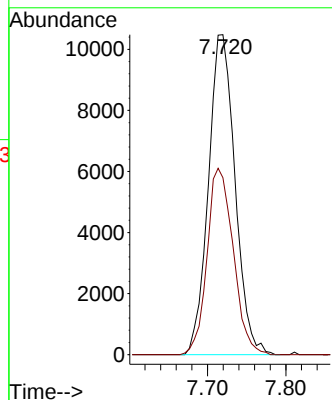
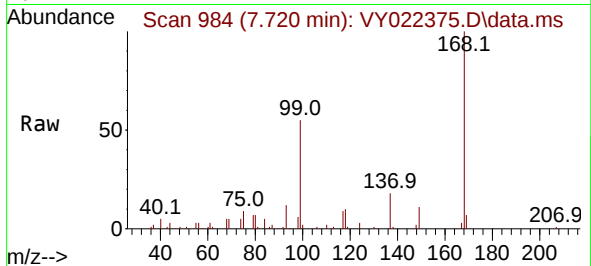




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.013 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

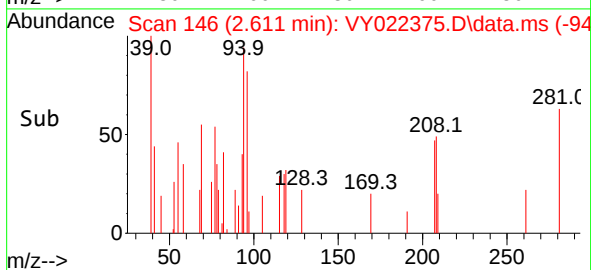
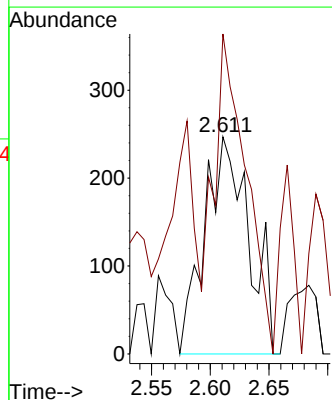
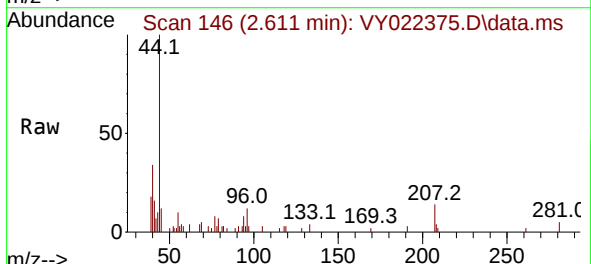
Instrument :
MSVOA_Y
ClientSampleId :
TP-1-MHE-VOC

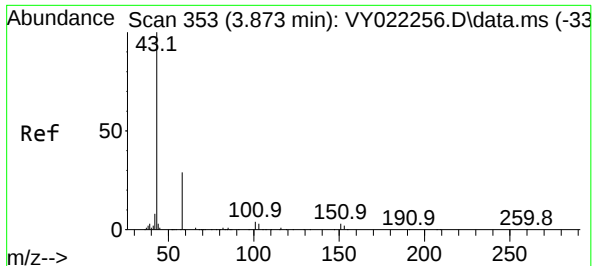
Tgt Ion:168 Resp: 24785
Ion Ratio Lower Upper
168 100
99 55.3 44.2 66.4



#5
Bromomethane
Concen: 1.308 ug/l
RT: 2.611 min Scan# 146
Delta R.T. 0.018 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

Tgt Ion: 94 Resp: 647
Ion Ratio Lower Upper
94 100
96 89.5 73.4 110.0

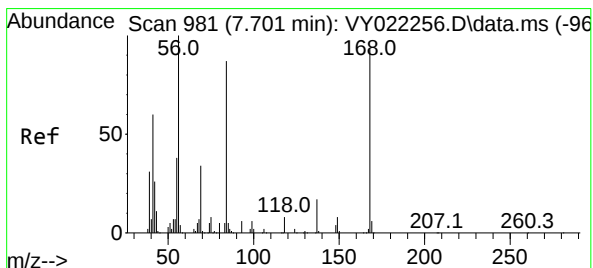
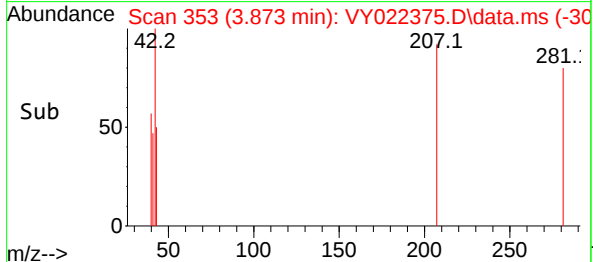
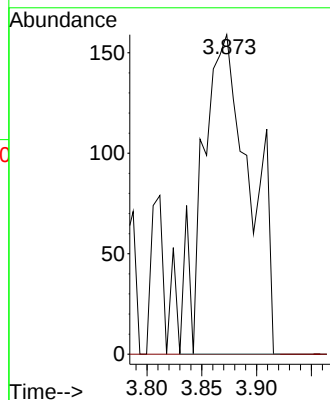
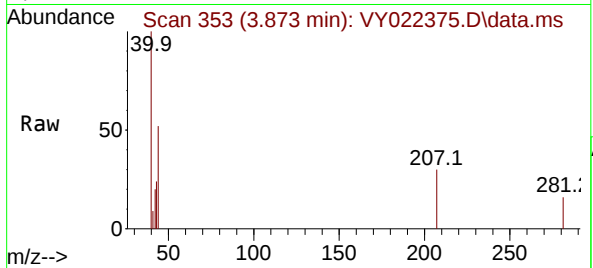




#16
Acetone
Concen: 9.450 ug/l
RT: 3.873 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

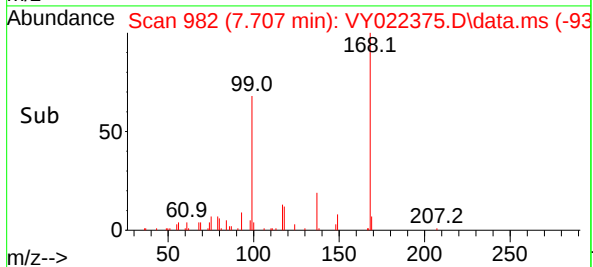
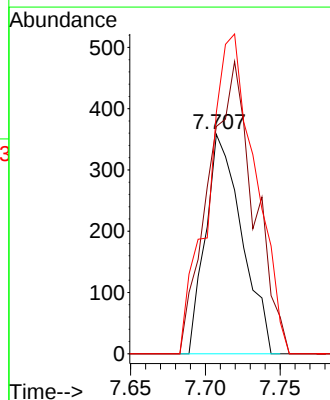
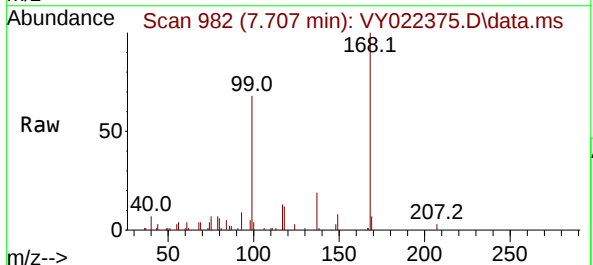
Instrument :
MSVOA_Y
ClientSampleId :
TP-1-MHE-VOC

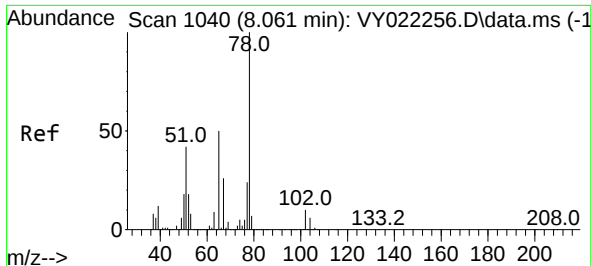
Tgt Ion: 43 Resp: 480
Ion Ratio Lower Upper
43 100
58 0.0 23.6 35.4#



#31
Cyclohexane
Concen: 1.100 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

Tgt Ion: 56 Resp: 603
Ion Ratio Lower Upper
56 100
69 103.6 27.4 41.2#
84 110.1 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 38.519 ug/l

RT: 8.067 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY022375.D

Acq: 21 May 2025 18:15

Instrument :

MSVOA_Y

ClientSampleId :

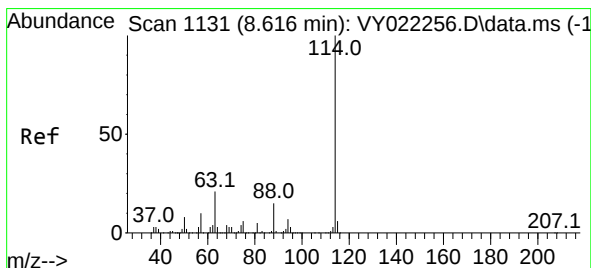
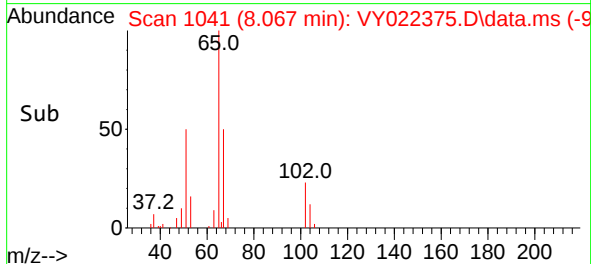
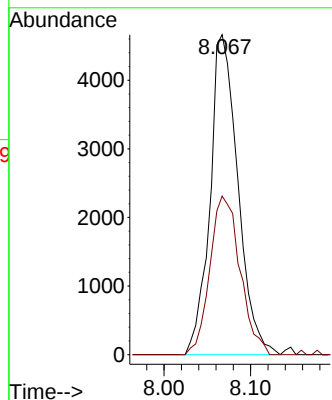
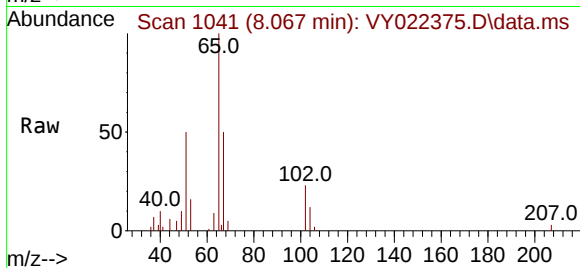
TP-1-MHE-VOC

Tgt Ion: 65 Resp: 10434

Ion Ratio Lower Upper

65 100

67 53.6 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY022375.D

Acq: 21 May 2025 18:15

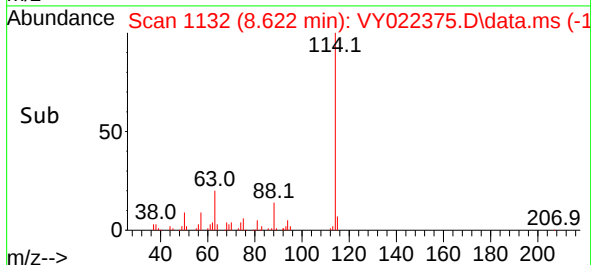
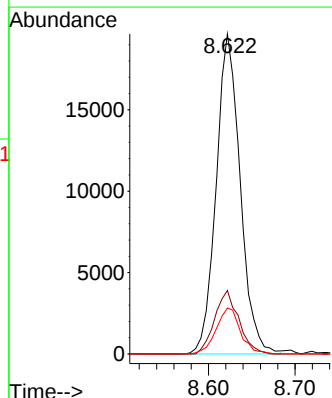
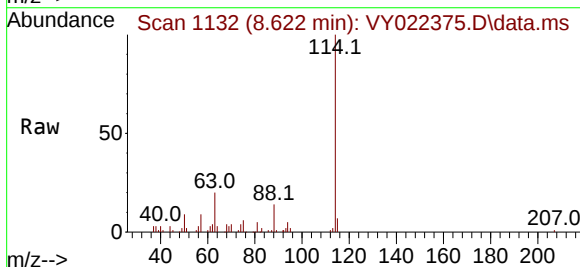
Tgt Ion: 114 Resp: 37865

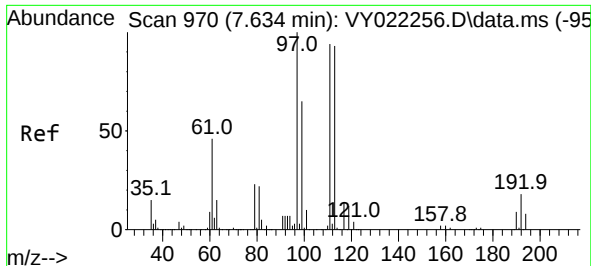
Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.0

88 14.4 0.0 29.4

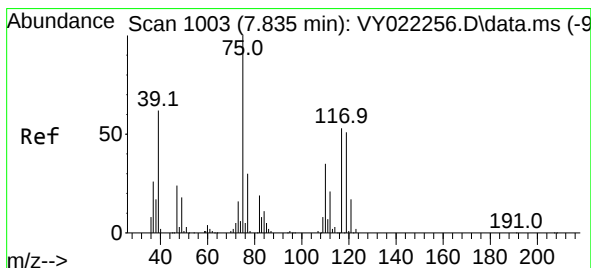
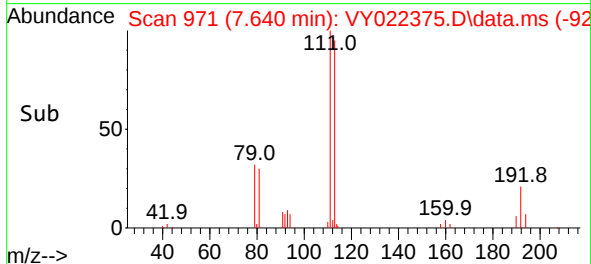
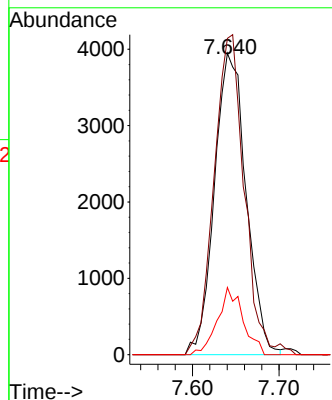
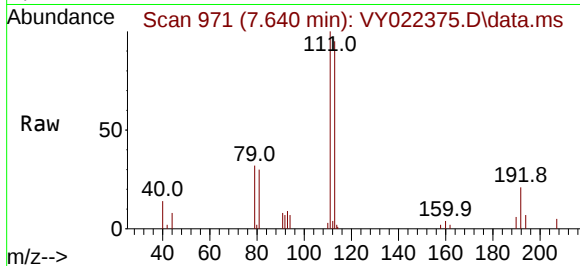




#35
Dibromofluoromethane
Concen: 44.398 ug/l
RT: 7.640 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

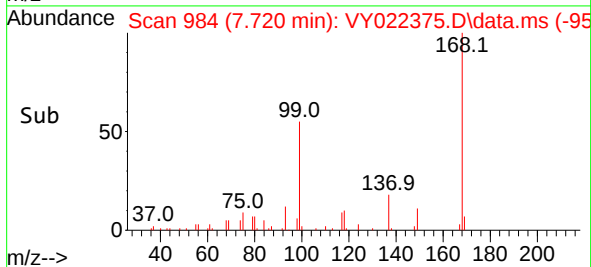
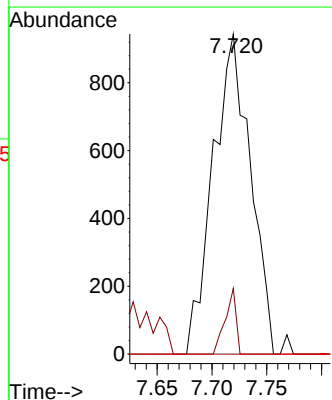
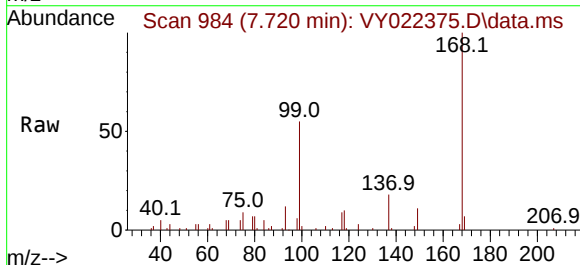
Instrument :
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TP-1-MHE-VOC

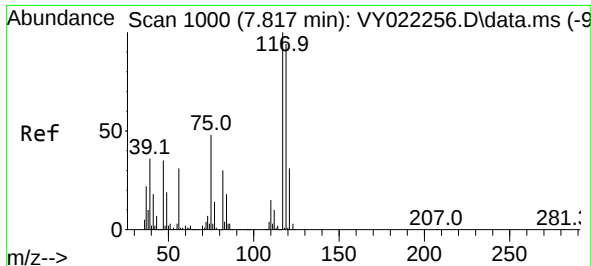
Tgt Ion:113 Resp: 10034
Ion Ratio Lower Upper
113 100
111 101.1 82.6 123.8
192 17.9 15.2 22.8



#36
1,1-Dichloropropene
Concen: 6.012 ug/l
RT: 7.720 min Scan# 984
Delta R.T. -0.116 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

Tgt Ion: 75 Resp: 2238
Ion Ratio Lower Upper
75 100
110 6.0 16.6 49.8#
77 0.0 24.6 37.0#

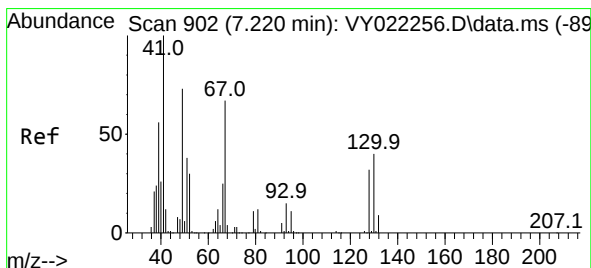
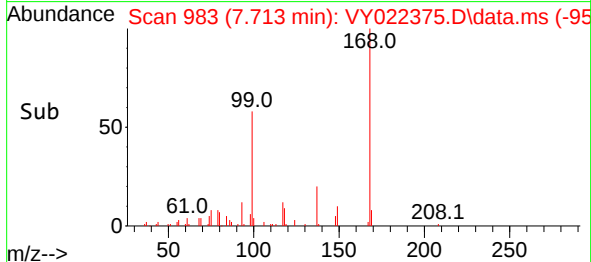
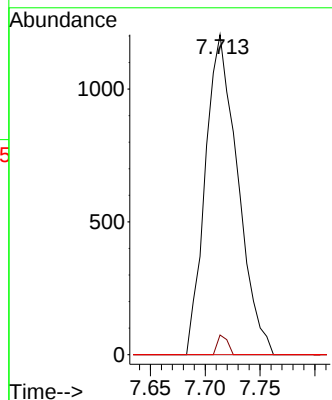
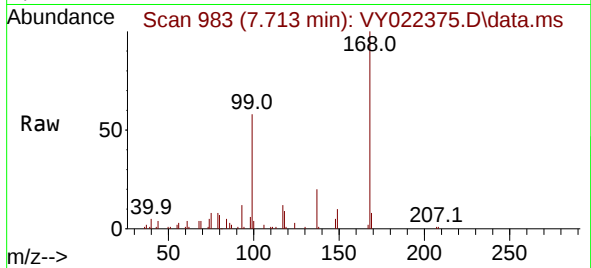




#38
Carbon Tetrachloride
Concen: 6.428 ug/l
RT: 7.713 min Scan# 911
Delta R.T. -0.104 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

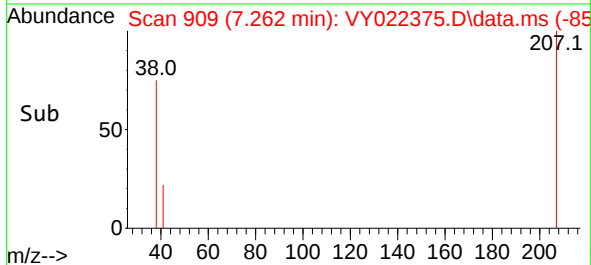
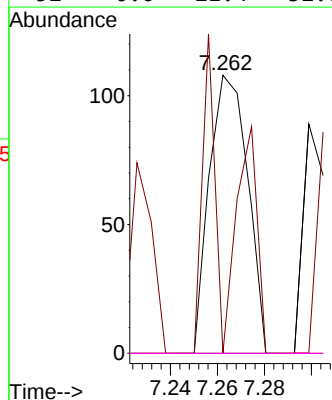
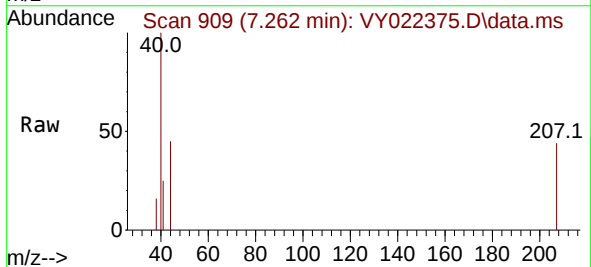
Instrument :
MSVOA_Y
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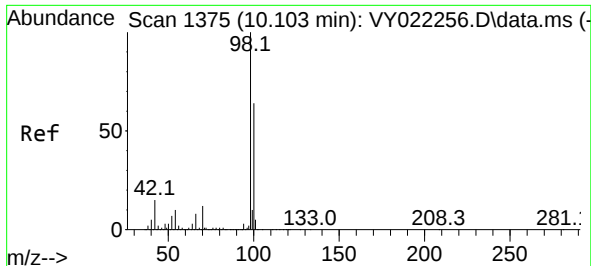
Tgt Ion:117 Resp: 2477
Ion Ratio Lower Upper
117 100
119 6.1 75.3 112.9#
121 0.0 24.7 37.1#



#41
Methacrylonitrile
Concen: 1.027 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.043 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

Tgt Ion: 41 Resp: 122
Ion Ratio Lower Upper
41 100
39 36.9 39.1 58.7#
67 0.0 47.1 70.7#
52 0.0 21.4 32.0#

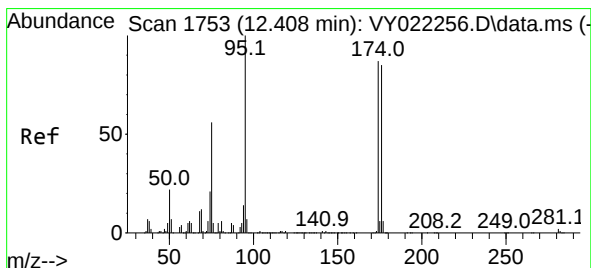
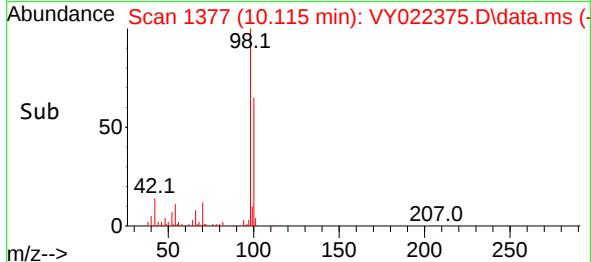
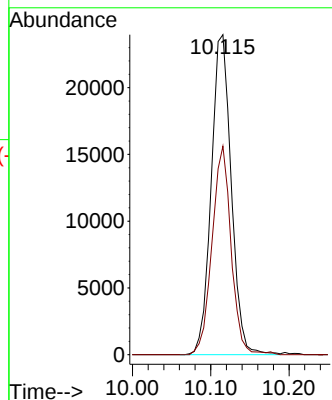
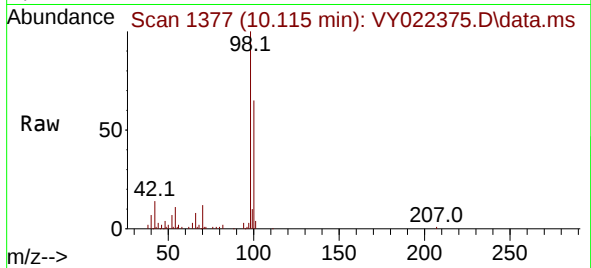




#50
Toluene-d8
Concen: 45.927 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

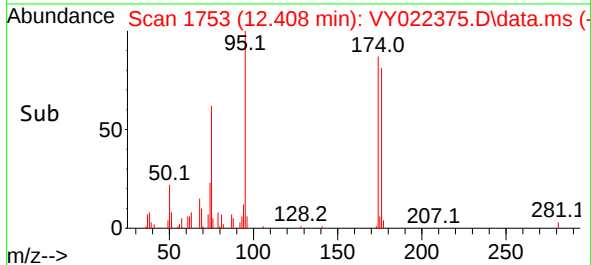
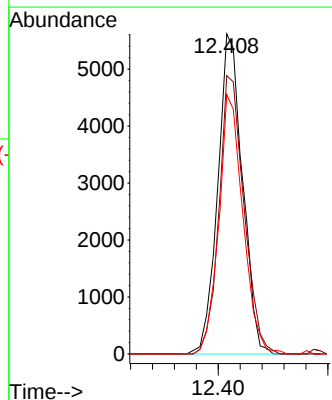
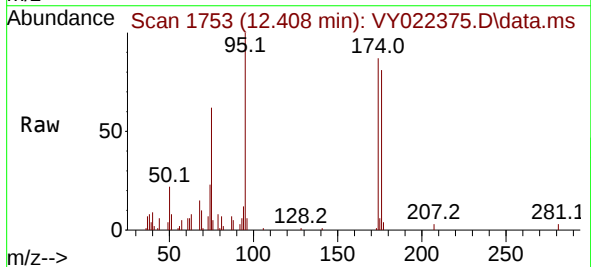
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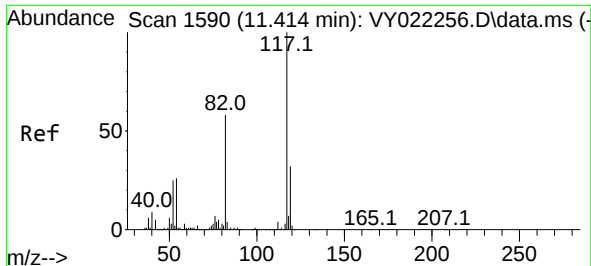
Tgt Ion: 98 Resp: 42510
Ion Ratio Lower Upper
98 100
100 62.1 51.8 77.8



#62
4-Bromofluorobenzene
Concen: 29.951 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

Tgt Ion: 95 Resp: 8787
Ion Ratio Lower Upper
95 100
174 87.9 0.0 166.8
176 79.3 0.0 160.8

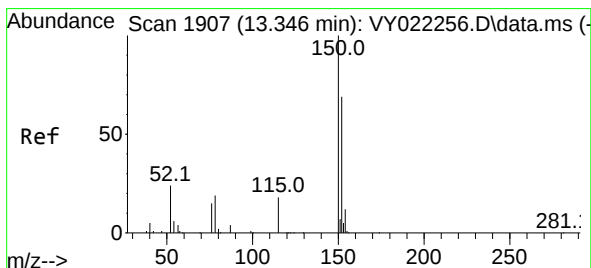
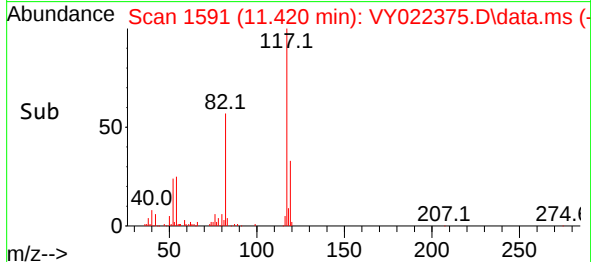
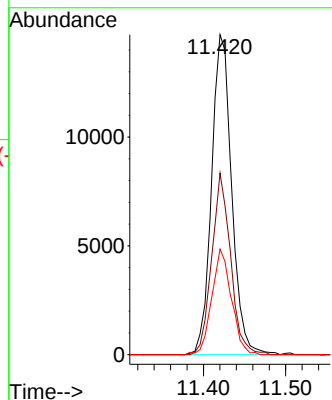
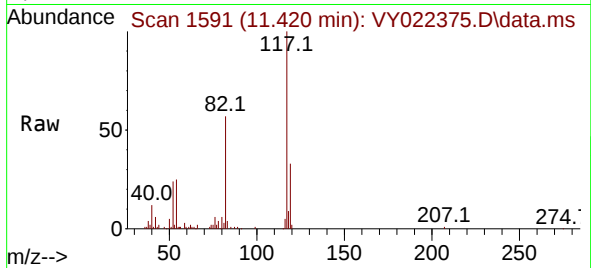




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11591
Delta R.T. 0.006 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

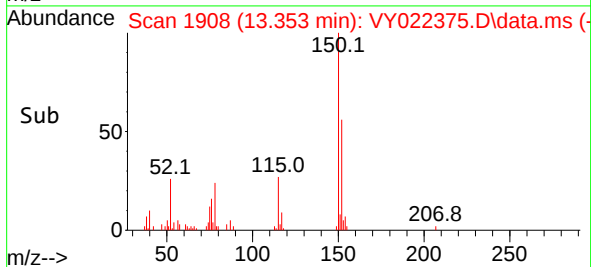
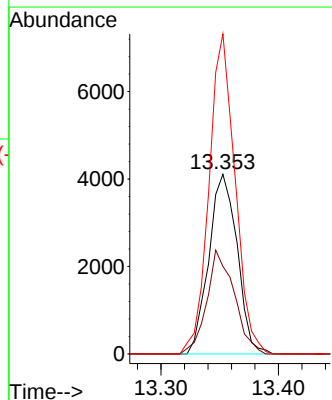
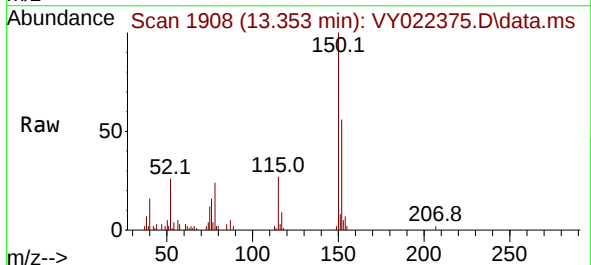
Instrument :
MSVOA_Y
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TP-1-MHE-VOC

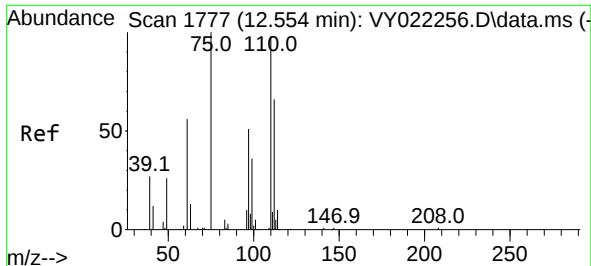
Tgt Ion:117 Resp: 25017
Ion Ratio Lower Upper
117 100
82 56.7 46.6 70.0
119 33.0 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

Tgt Ion:152 Resp: 6889
Ion Ratio Lower Upper
152 100
115 56.1 29.4 88.2
150 163.9 0.0 353.8

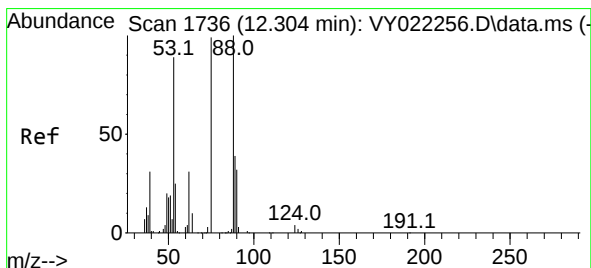
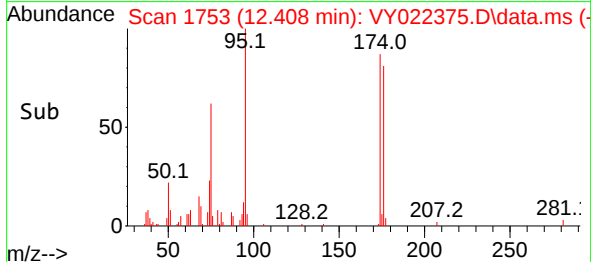
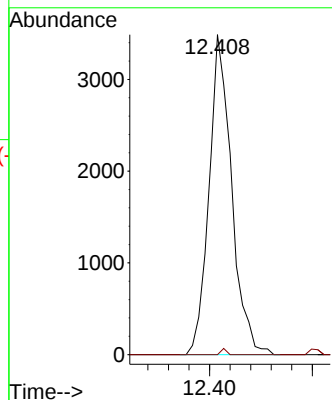
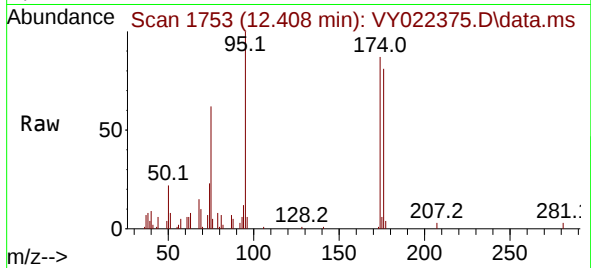




#76
1,2,3-Trichloropropane
Concen: 76.082 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

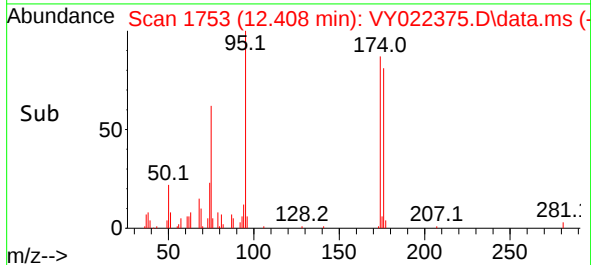
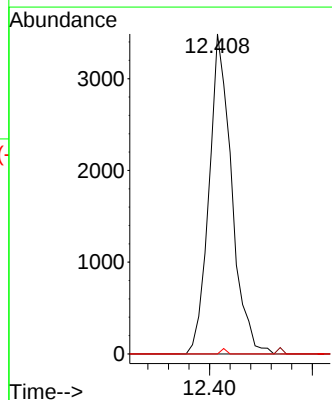
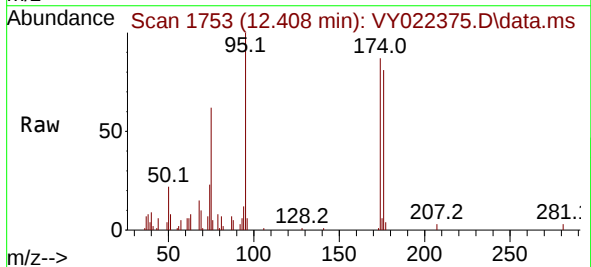
Instrument :
MSVOA_Y
ClientSampleId :
TP-1-MHE-VOC

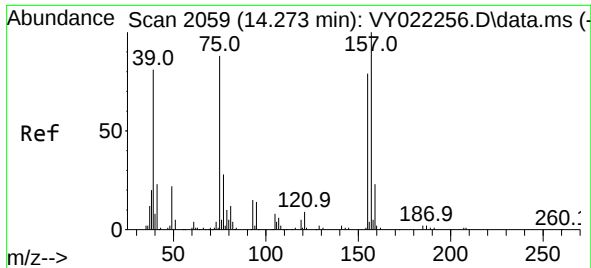
Tgt Ion: 75 Resp: 5310
Ion Ratio Lower Upper
75 100
77 0.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 154.124 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY022375.D
Acq: 21 May 2025 18:15

Tgt Ion: 75 Resp: 5310
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.4 36.2 54.2#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.342 ug/l
 RT: 14.292 min Scan# 20
 Delta R.T. 0.018 min
 Lab File: VY022375.D
 Acq: 21 May 2025 18:15

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-1-MHE-VOC

Tgt Ion: 75 Resp: 19
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.4 130.1#
 157 0.0 54.6 163.9#

