

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111225\
 Data File : VY023765.D
 Acq On : 12 Nov 2025 15:44
 Operator : SY/MD
 Sample : Q3609-08
 Misc : 5.67g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 AU-713-VOC-03

Quant Time: Nov 14 03:40:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	752978	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1302630	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1147053	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	458702	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	376802	58.665	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.320%
35) Dibromofluoromethane	7.634	113	415151	50.998	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.000%
50) Toluene-d8	10.109	98	1483040	48.906	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.820%
62) 4-Bromofluorobenzene	12.401	95	449178	45.804	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	91.600%

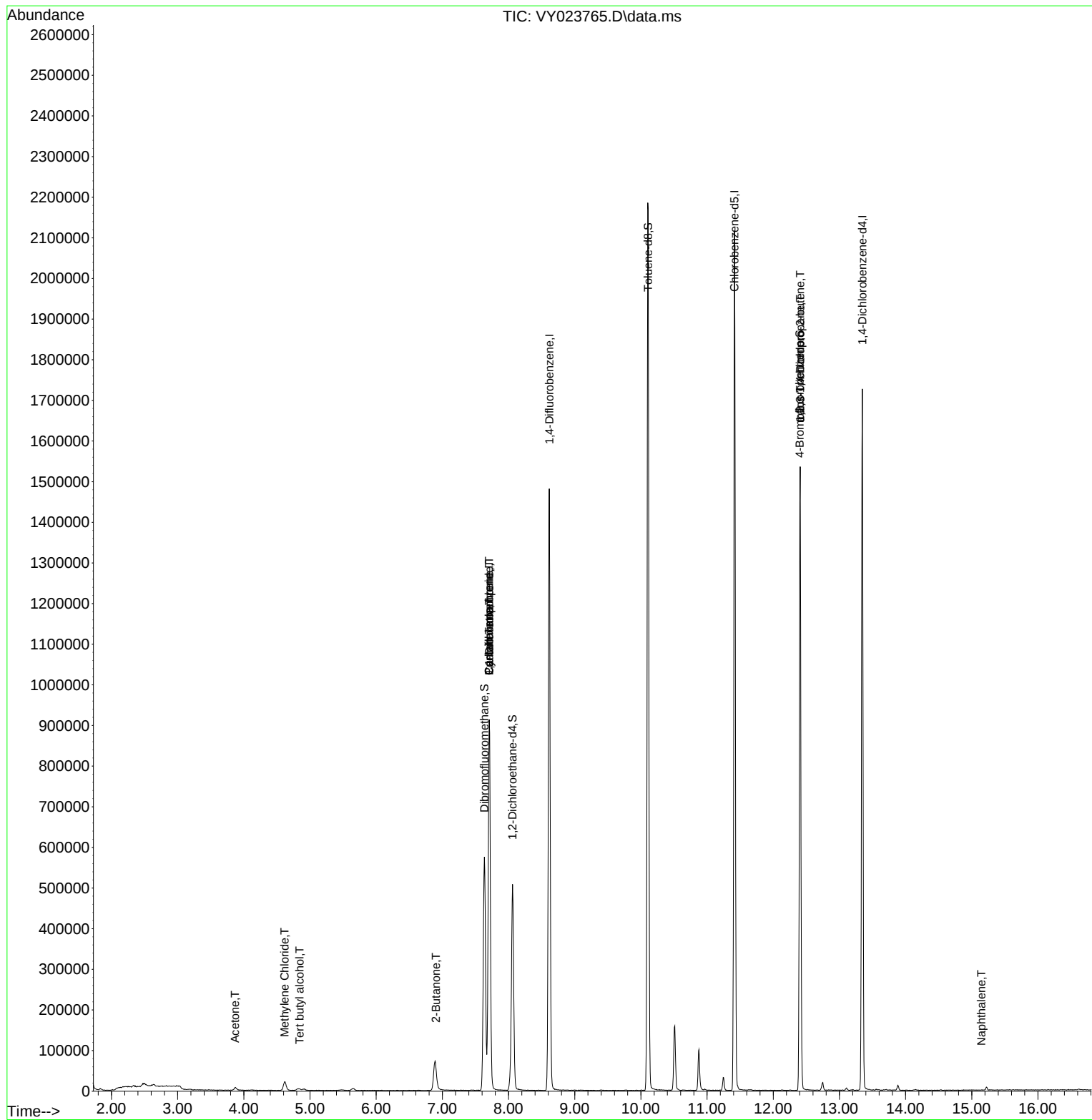
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.842	59	4724	11.406	ug/l #	76
16) Acetone	3.866	43	11934	7.475	ug/l	96
20) Methylene Chloride	4.616	84	16759	2.174	ug/l	98
25) 2-Butanone	6.902	43	6067	3.287	ug/l	92
31) Cyclohexane	7.707	56	12945	1.223	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	51247	4.711	ug/l #	48
38) Carbon Tetrachloride	7.707	117	69633	5.433	ug/l #	17
76) 1,2,3-Trichloropropane	12.408	75	222427	59.916	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	222427	135.406	ug/l #	14
95) Naphthalene	15.145	128	297	5.282	ug/l #	69

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

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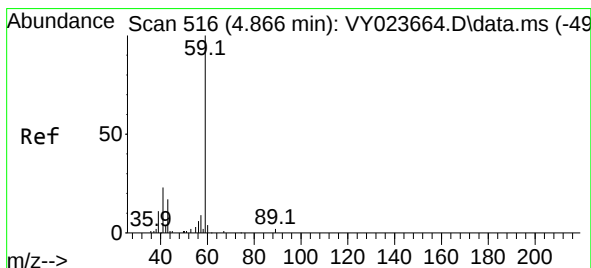
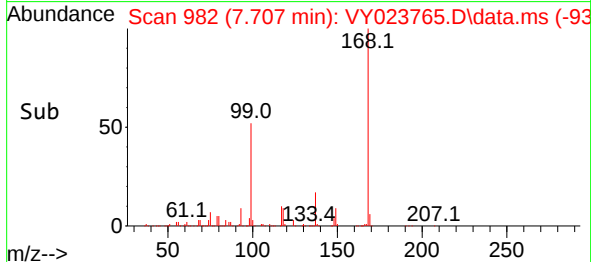
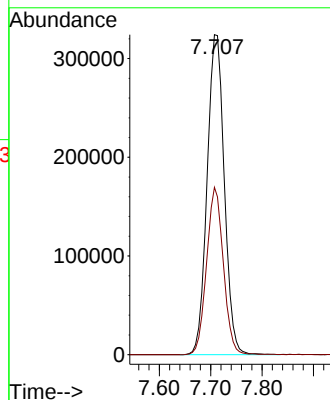
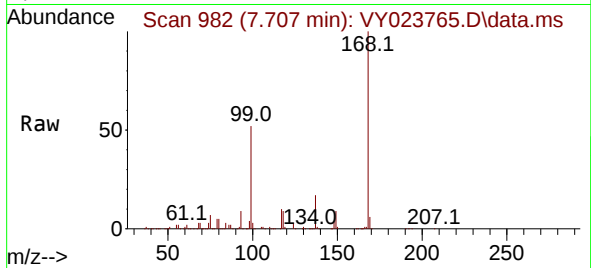




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

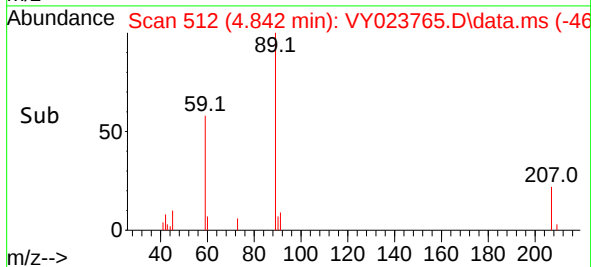
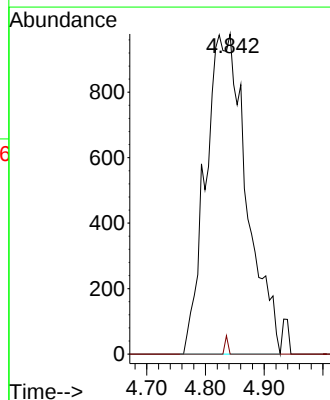
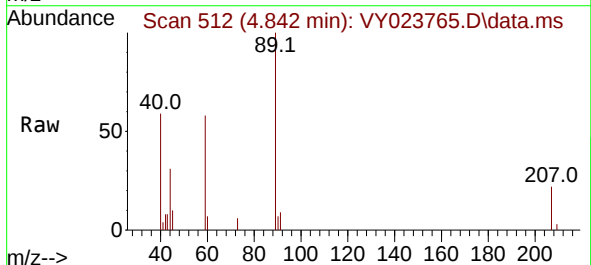
Instrument :
MSVOA_Y
ClientSampleId :
AU-713-VOC-03

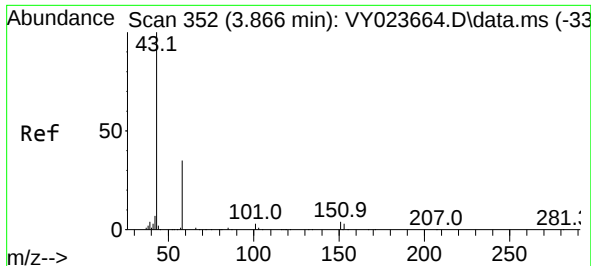
Tgt Ion:168 Resp: 752978
Ion Ratio Lower Upper
168 100
99 52.3 41.0 61.4



#11
Tert butyl alcohol
Concen: 11.406 ug/l
RT: 4.842 min Scan# 512
Delta R.T. -0.024 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Tgt Ion: 59 Resp: 4724
Ion Ratio Lower Upper
59 100
57 0.4 7.4 11.2#

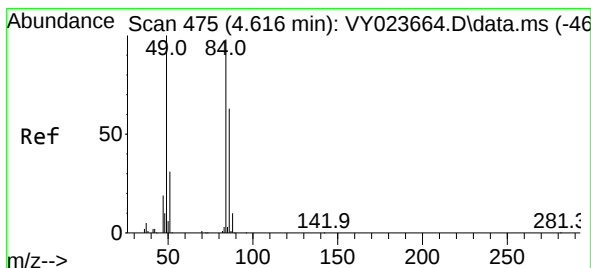
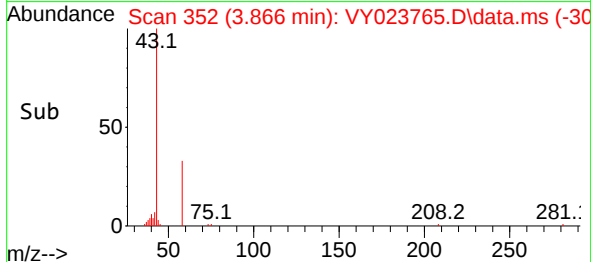
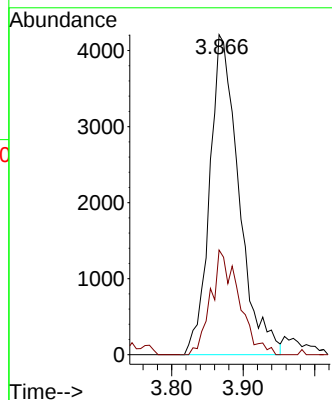
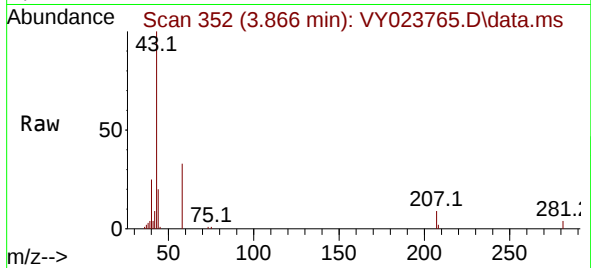




#16
Acetone
Concen: 7.475 ug/l
RT: 3.866 min Scan# 311
Delta R.T. -0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

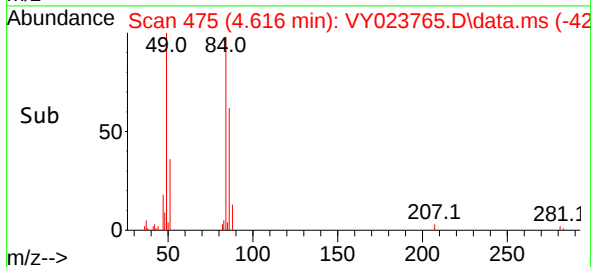
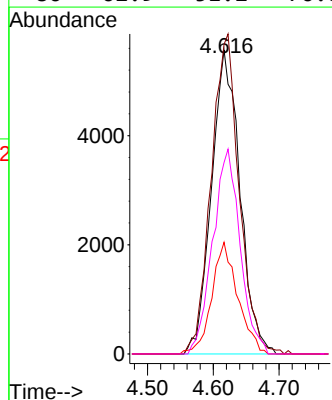
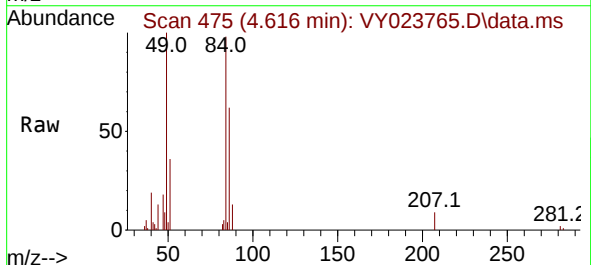
Instrument :
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ClientSampleId :
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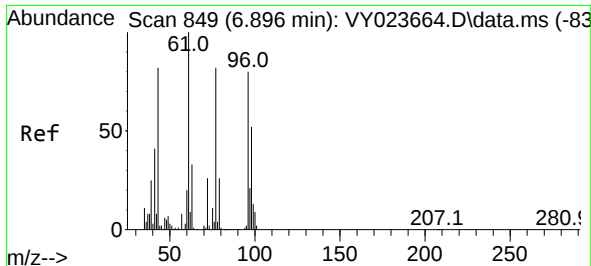
Tgt Ion: 43 Resp: 11934
Ion Ratio Lower Upper
43 100
58 32.7 28.2 42.4



#20
Methylene Chloride
Concen: 2.174 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Tgt Ion: 84 Resp: 16759
Ion Ratio Lower Upper
84 100
49 101.8 81.5 122.3
51 36.8 25.5 38.3
86 62.9 51.2 76.8

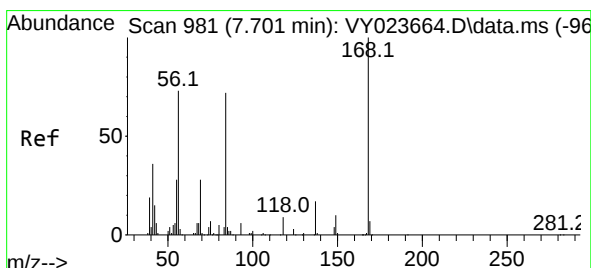
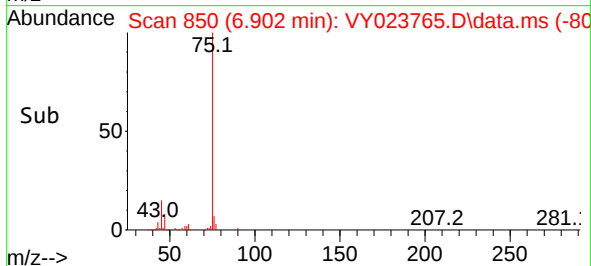
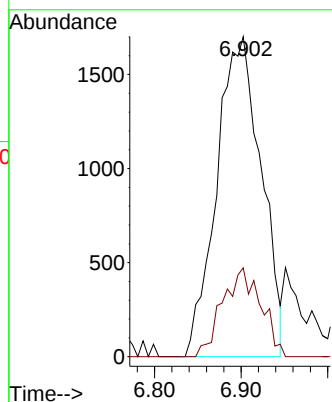
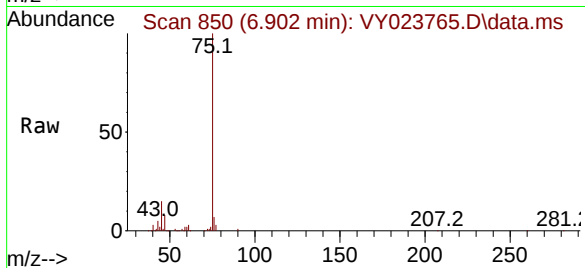




#25
2-Butanone
Concen: 3.287 ug/l
RT: 6.902 min Scan# 81
Delta R.T. 0.006 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

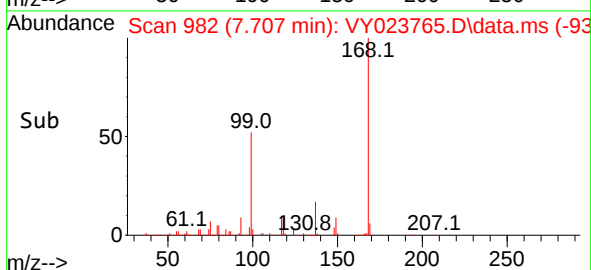
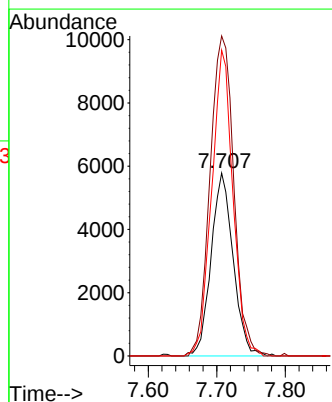
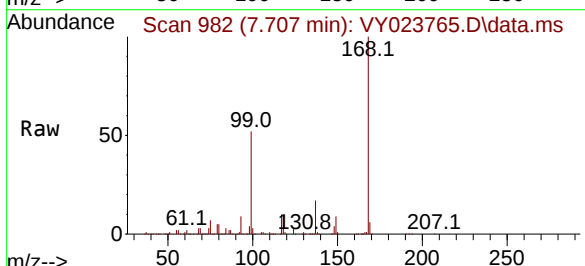
Instrument :
MSVOA_Y
ClientSampleId :
AU-713-VOC-03

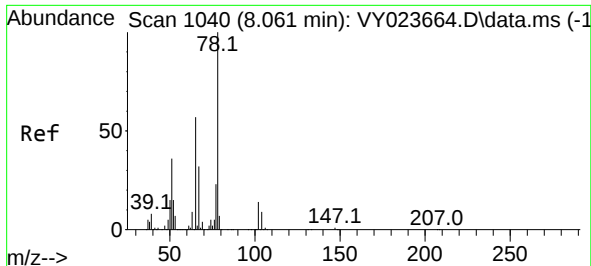
Tgt Ion: 43 Resp: 6067
Ion Ratio Lower Upper
43 100
72 27.7 25.7 38.5



#31
Cyclohexane
Concen: 1.223 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Tgt Ion: 56 Resp: 12945
Ion Ratio Lower Upper
56 100
69 175.0 30.5 45.7#
84 167.2 79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 58.665 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VY023765.D

Acq: 12 Nov 2025 15:44

Instrument :

MSVOA_Y

ClientSampleId :

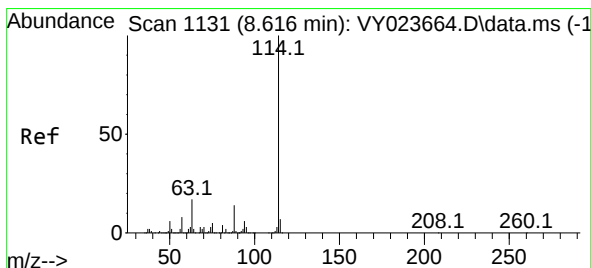
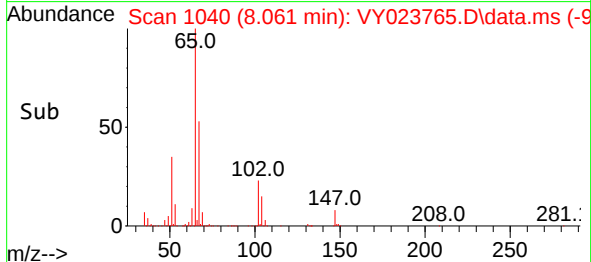
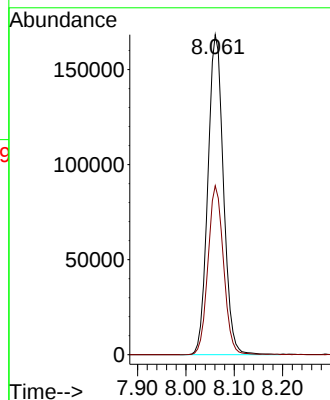
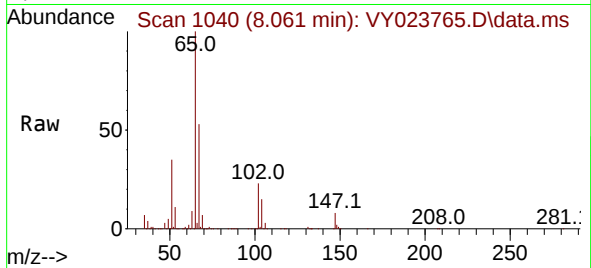
AU-713-VOC-03

Tgt Ion: 65 Resp: 376802

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023765.D

Acq: 12 Nov 2025 15:44

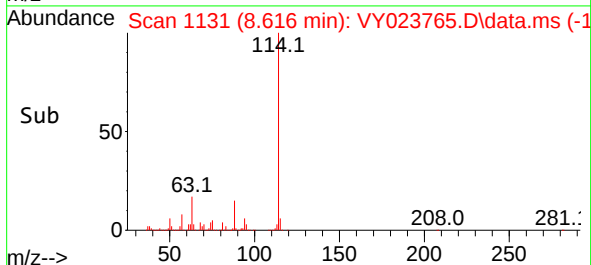
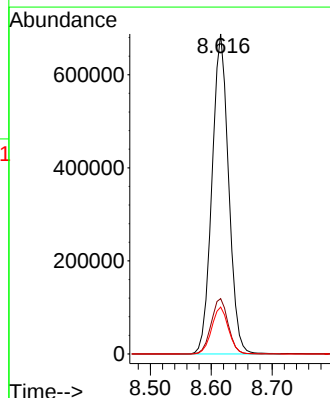
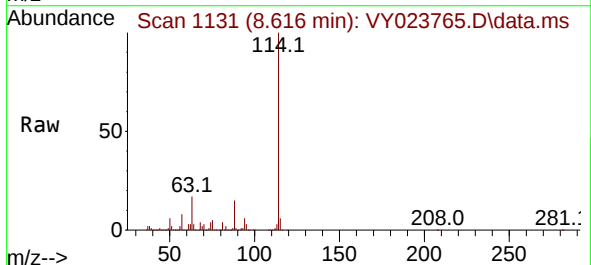
Tgt Ion: 114 Resp: 1302630

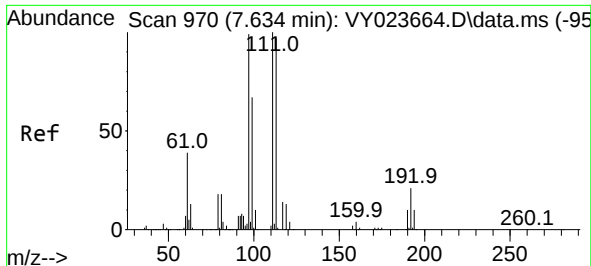
Ion Ratio Lower Upper

114 100

63 17.3 0.0 33.8

88 14.7 0.0 29.0

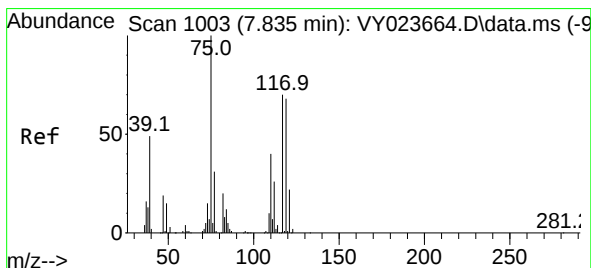
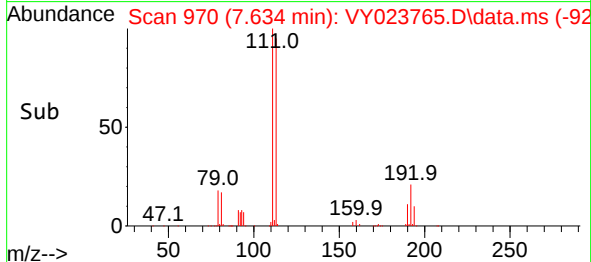
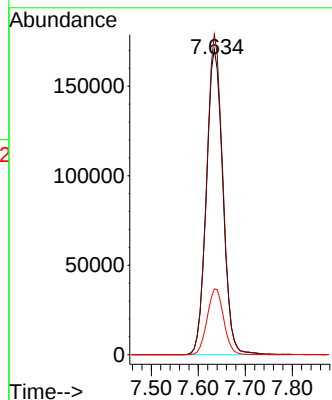
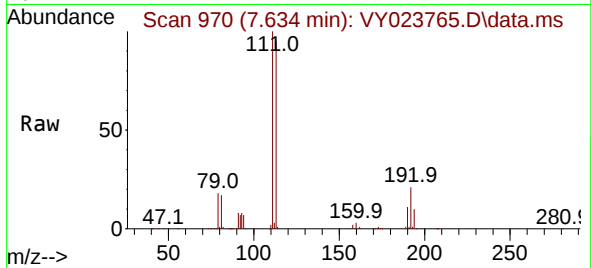




#35
Dibromofluoromethane
Concen: 50.998 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

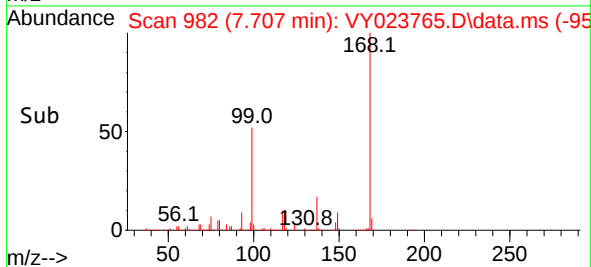
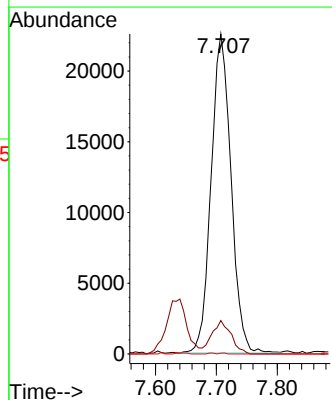
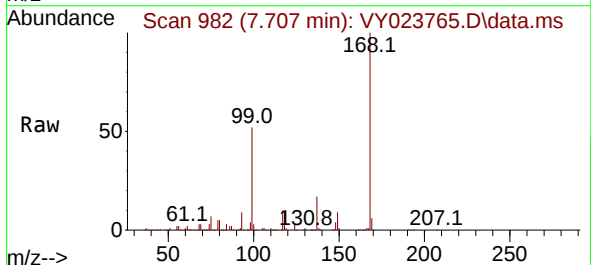
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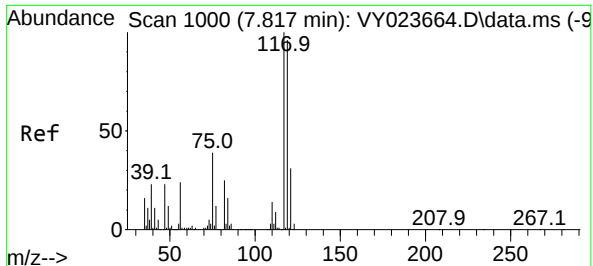
Tgt Ion:113 Resp: 415151
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.4
192 21.6 17.3 25.9



#36
1,1-Dichloropropene
Concen: 4.711 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Tgt Ion: 75 Resp: 51247
Ion Ratio Lower Upper
75 100
110 10.0 19.7 59.0#
77 0.1 25.2 37.8#

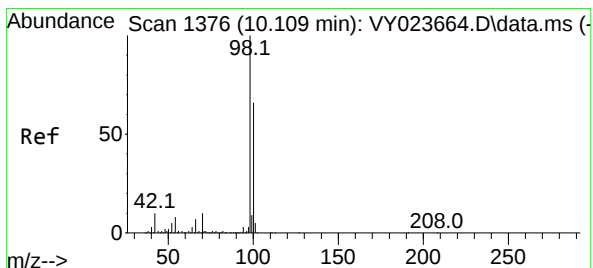
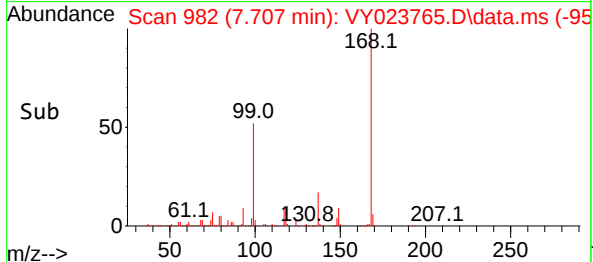
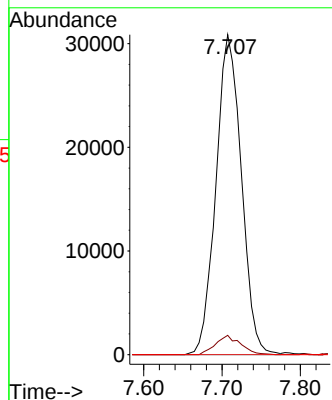
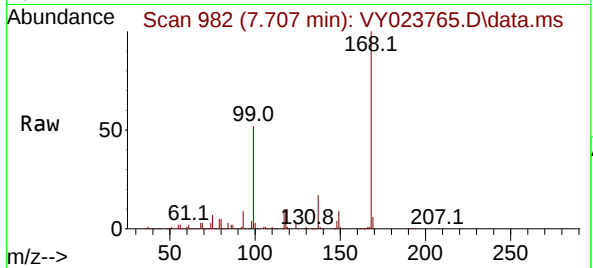




#38
Carbon Tetrachloride
Concen: 5.433 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

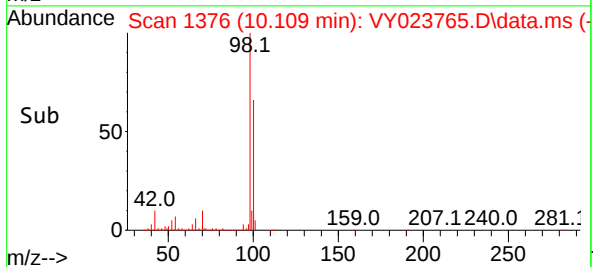
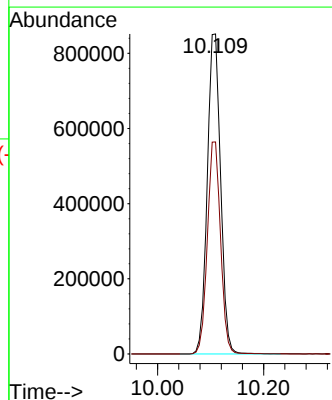
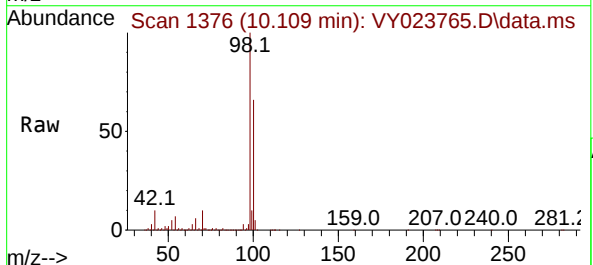
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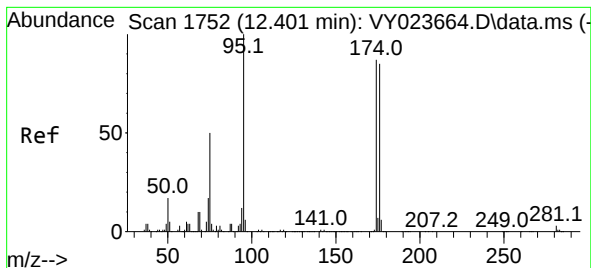
Tgt Ion:117 Resp: 69633
Ion Ratio Lower Upper
117 100
119 6.0 76.3 114.5#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 48.906 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Tgt Ion: 98 Resp: 1483040
Ion Ratio Lower Upper
98 100
100 65.5 52.7 79.1

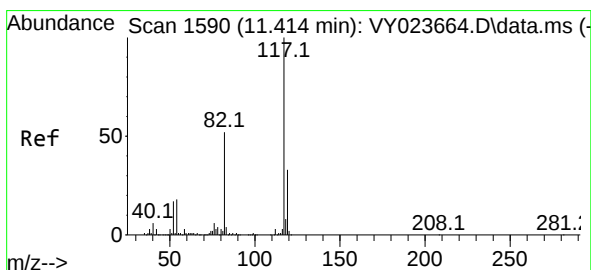
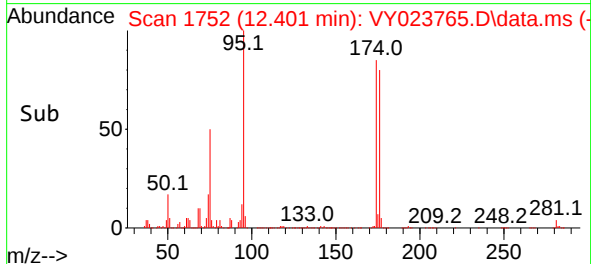
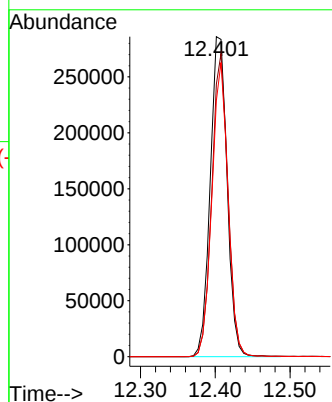
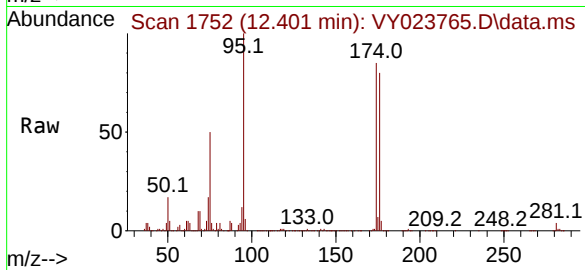




#62
4-Bromofluorobenzene
Concen: 45.804 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

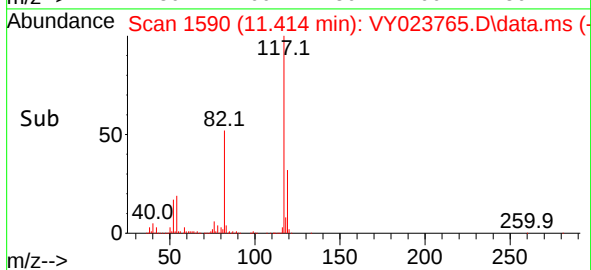
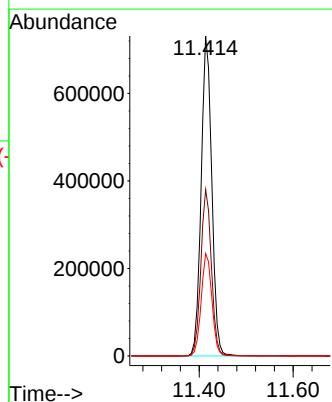
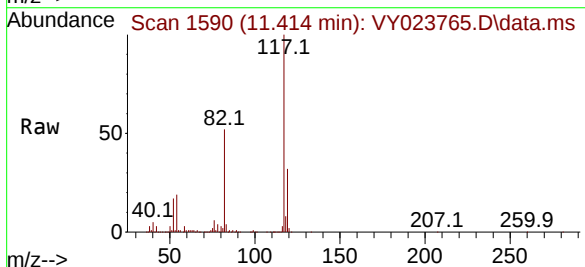
Instrument :
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ClientSampleId :
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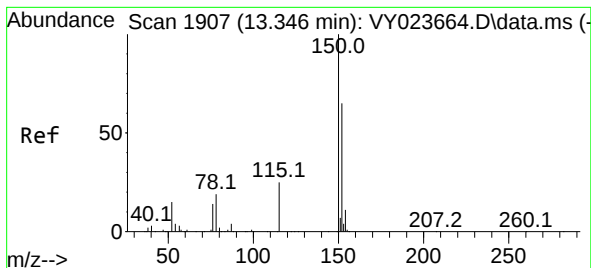
Tgt Ion: 95 Resp: 449178
Ion Ratio Lower Upper
95 100
174 90.8 0.0 184.8
176 88.0 0.0 181.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Tgt Ion: 117 Resp: 1147053
Ion Ratio Lower Upper
117 100
82 52.0 41.2 61.8
119 32.0 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023765.D

Acq: 12 Nov 2025 15:44

Instrument :

MSVOA_Y

ClientSampleId :

AU-713-VOC-03

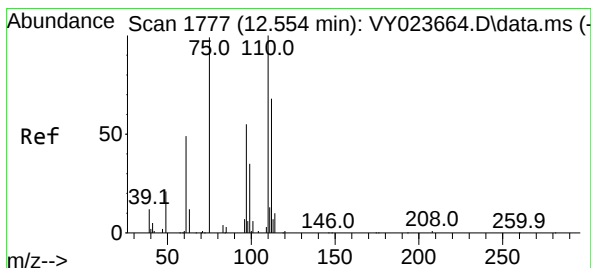
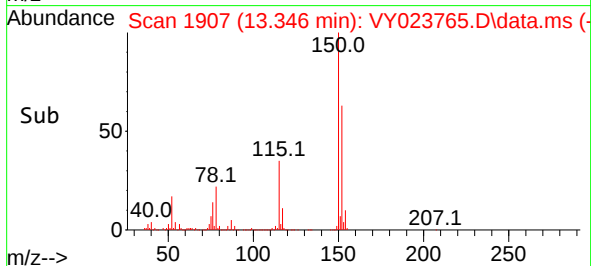
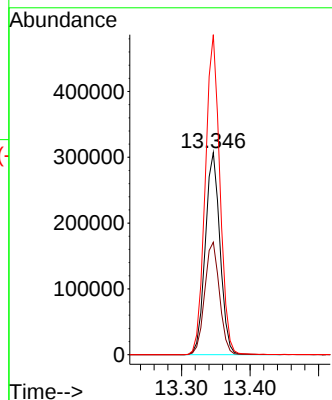
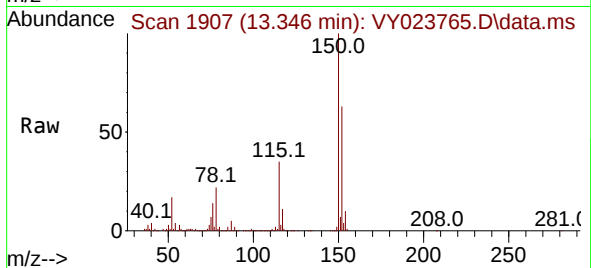
Tgt Ion:152 Resp: 458702

Ion Ratio Lower Upper

152 100

115 56.3 27.5 82.5

150 157.6 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 59.916 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023765.D

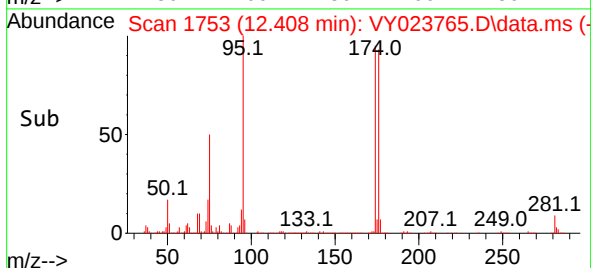
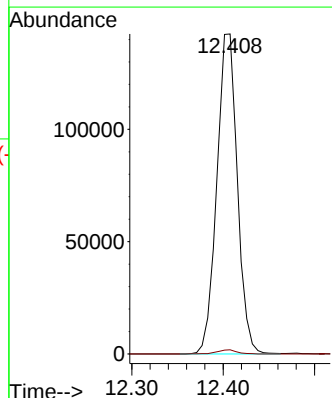
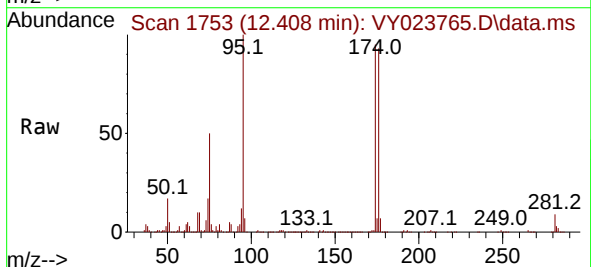
Acq: 12 Nov 2025 15:44

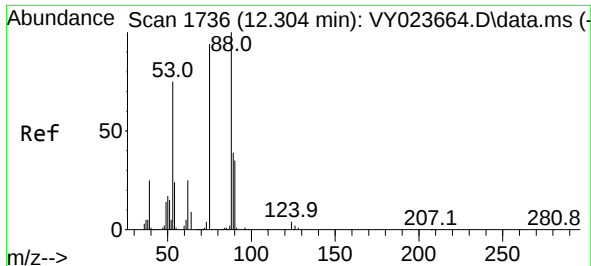
Tgt Ion: 75 Resp: 222427

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

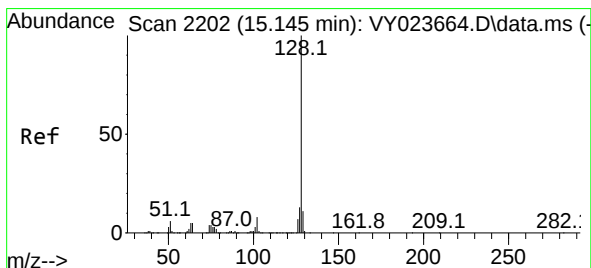
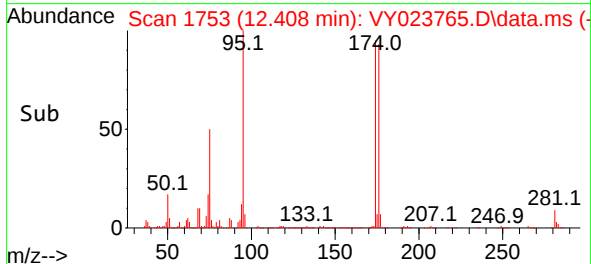
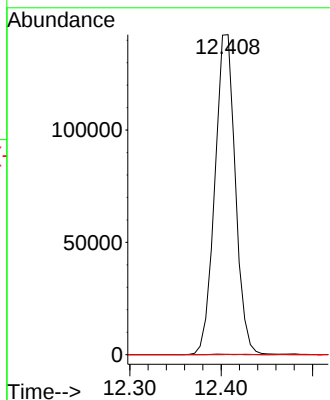
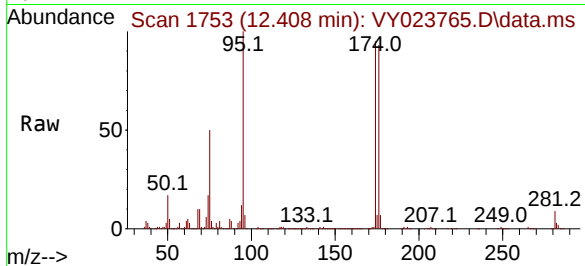




#81
trans-1,4-Dichloro-2-butene
Concen: 135.406 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Instrument :
MSVOA_Y
ClientSampleId :
AU-713-VOC-03

Tgt Ion: 75 Resp: 222427
Ion Ratio Lower Upper
75 100
53 0.2 69.6 104.4#
89 0.0 38.2 57.4#



#95
Naphthalene
Concen: 5.282 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY023765.D
Acq: 12 Nov 2025 15:44

Tgt Ion: 128 Resp: 297
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.8 13.2#

