

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121525\
 Data File : VY023969.D
 Acq On : 15 Dec 2025 12:16
 Operator : SY/MD
 Sample : Q3859-01
 Misc : 5.61g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-121225

Quant Time: Dec 16 02:13:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121025S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 11 03:57:51 2025
 Response via : Initial Calibration

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

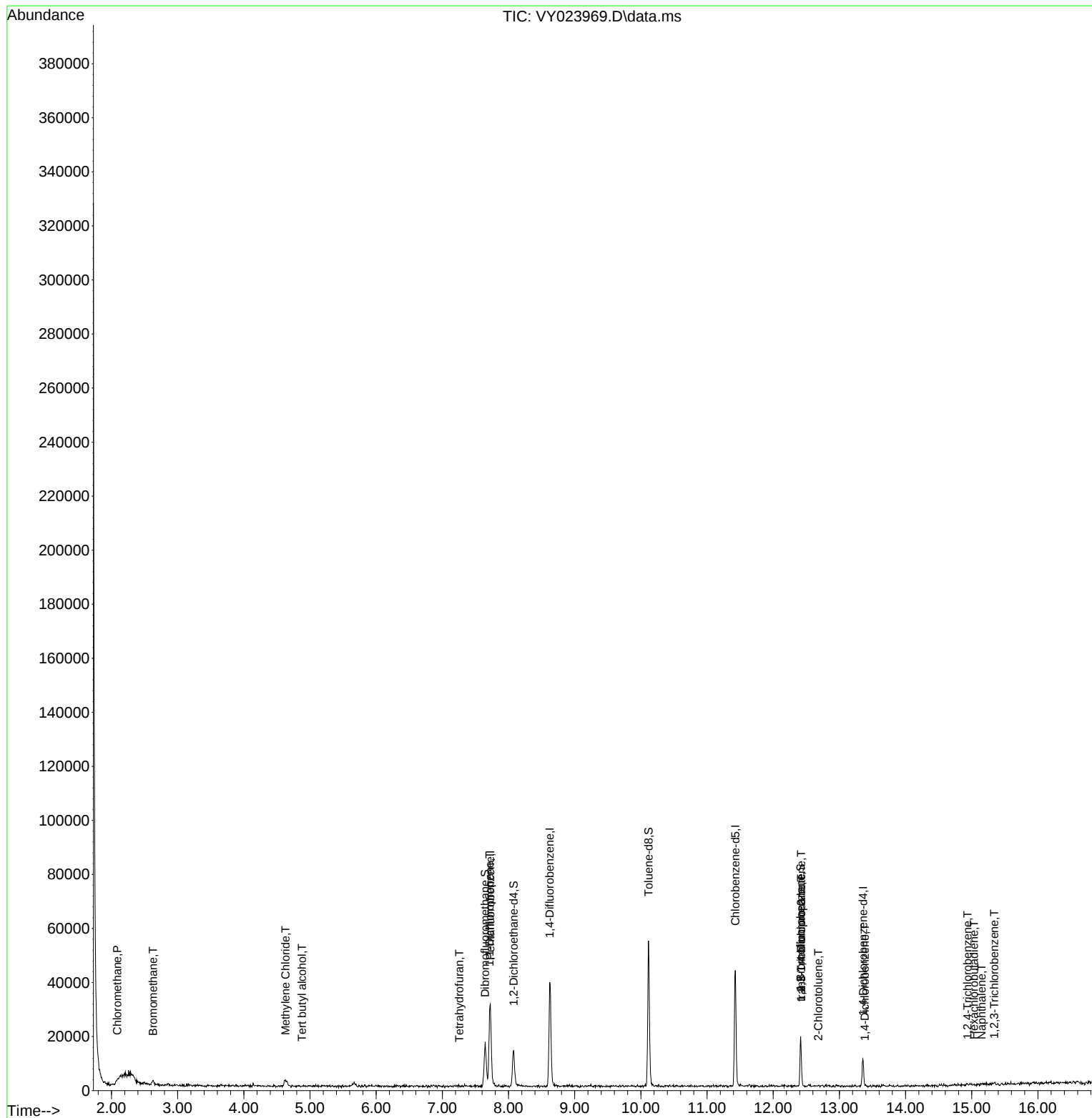
Internal Standards						
1) Pentafluorobenzene	7.726	168	27379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	37078	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	25688	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	3330	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.079	65	10801	44.619	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	89.240%
35) Dibromofluoromethane	7.646	113	11208	46.243	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.480%
50) Toluene-d8	10.115	98	38082	42.201	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	84.400%
62) 4-Bromofluorobenzene	12.414	95	5258	17.448	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	34.900%
Target Compounds						Qvalue
3) Chloromethane	2.086	50	455	1.865	ug/l #	79
5) Bromomethane	2.629	94	1047	4.080	ug/l	81
11) Tert butyl alcohol	4.879	59	43	3.068	ug/l #	71
16) Acetone	3.879	43	137	Below Cal	#	42
20) Methylene Chloride	4.629	84	1849	6.493	ug/l #	87
29) Tetrahydrofuran	7.256	42	92	2.411	ug/l #	28
36) 1,1-Dichloropropene	7.713	75	1933	5.858	ug/l #	45
76) 1,2,3-Trichloropropane	12.420	75	2785	98.870	ug/l #	100
79) 2-Chlorotoluene	12.682	91	273	1.697	ug/l #	39
81) trans-1,4-Dichloro-2-b...	12.420	75	2785	225.052	ug/l #	12
88) 1,4-Dichlorobenzene	13.383	146	186	1.609	ug/l #	26
93) 1,2,4-Trichlorobenzene	14.938	180	308	5.158	ug/l #	54
94) Hexachlorobutadiene	15.035	225	63	1.610	ug/l #	19
95) Naphthalene	15.151	128	505	5.469	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.340	180	265	5.215	ug/l #	31

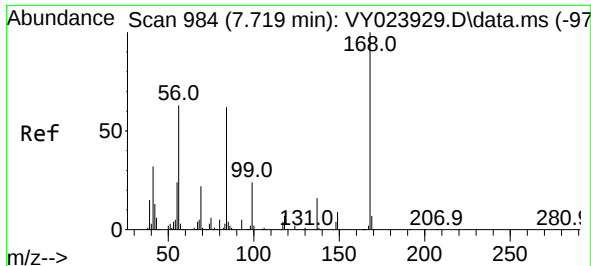
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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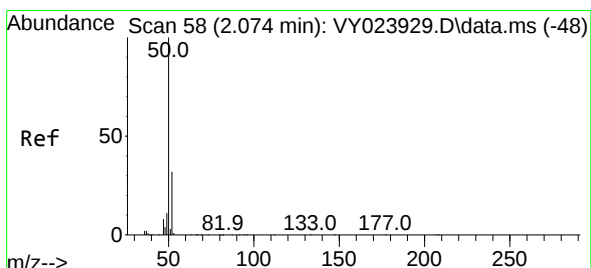
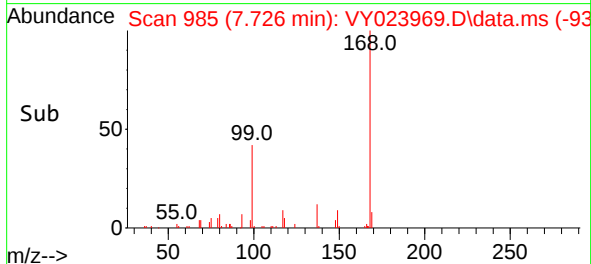
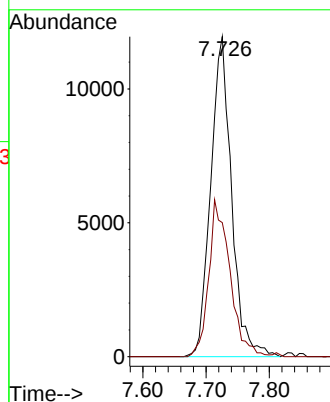
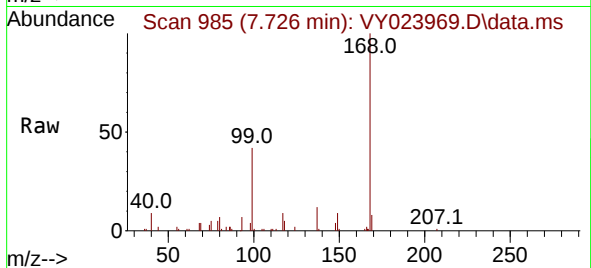




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.726 min Scan# 91
Delta R.T. 0.007 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

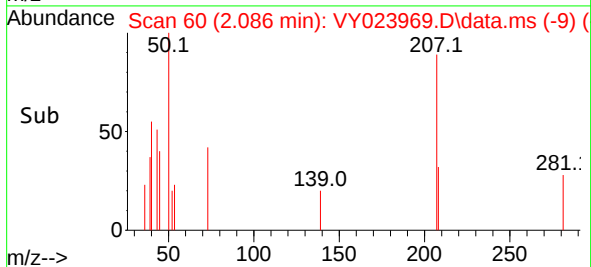
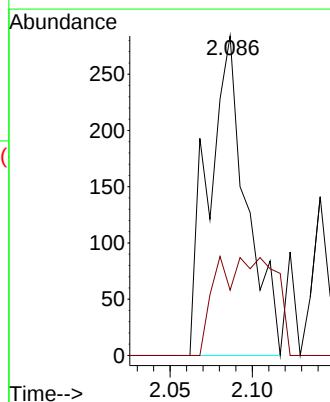
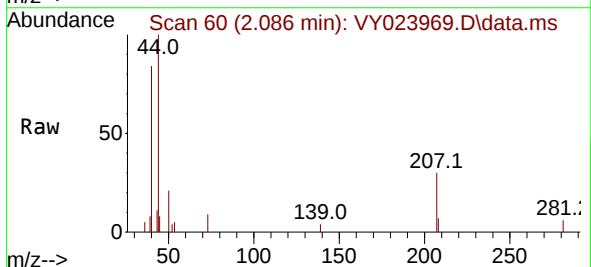
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-121225

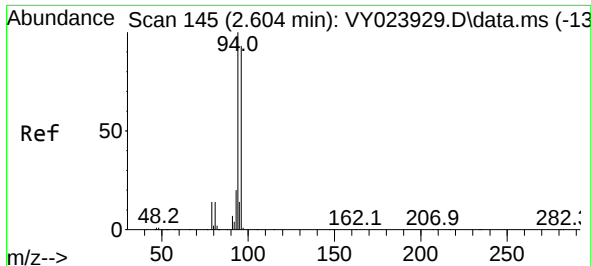
Tgt Ion:168 Resp: 27379
Ion Ratio Lower Upper
168 100
99 41.9 38.9 58.3



#3
Chloromethane
Concen: 1.865 ug/l
RT: 2.086 min Scan# 60
Delta R.T. 0.012 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

Tgt Ion: 50 Resp: 455
Ion Ratio Lower Upper
50 100
52 20.4 25.8 38.8#

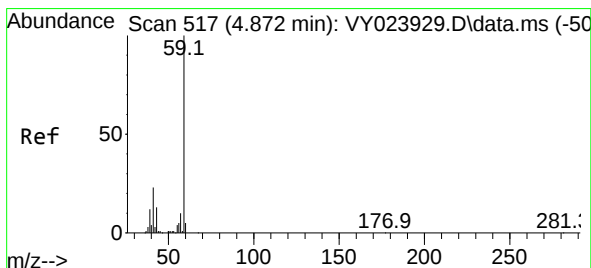
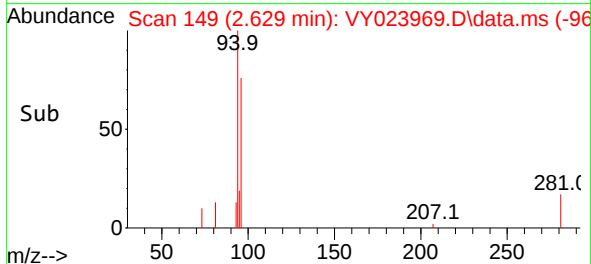
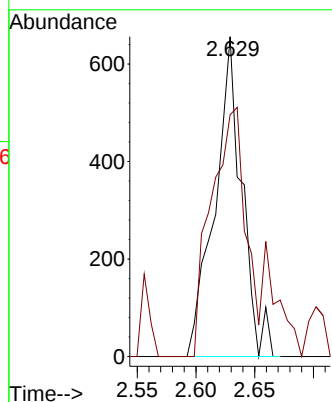
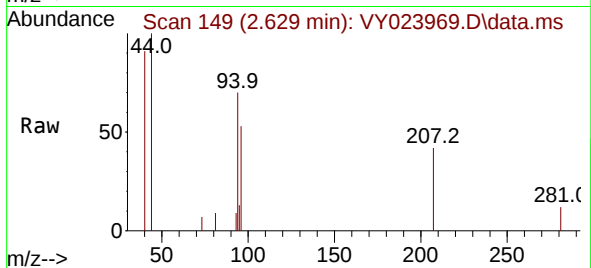




#5
Bromomethane
Concen: 4.080 ug/l
RT: 2.629 min Scan# 145
Delta R.T. 0.025 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

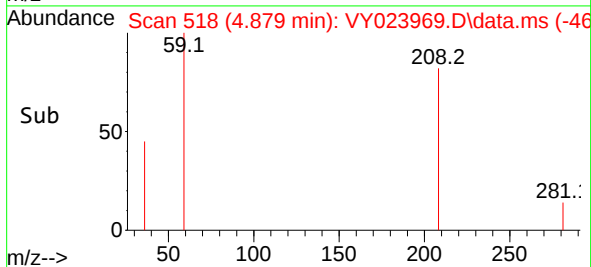
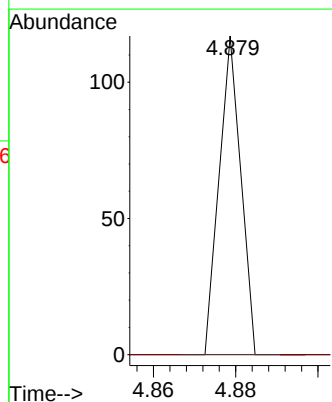
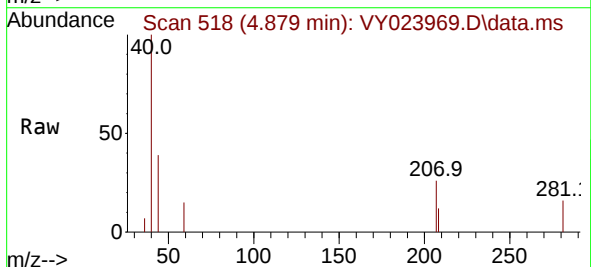
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-121225

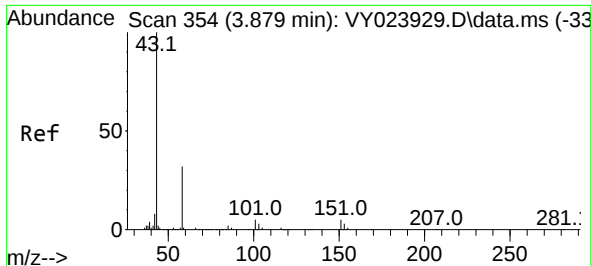
Tgt Ion: 94 Resp: 1047
Ion Ratio Lower Upper
94 100
96 75.6 74.8 112.2



#11
Tert butyl alcohol
Concen: 3.068 ug/l
RT: 4.879 min Scan# 518
Delta R.T. 0.006 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

Tgt Ion: 59 Resp: 43
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

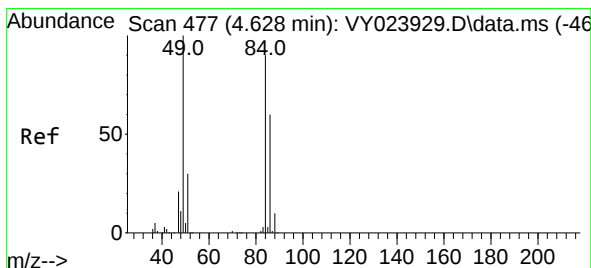
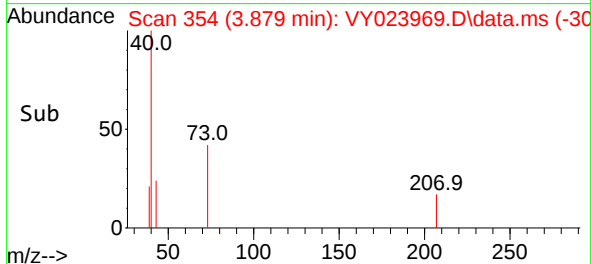
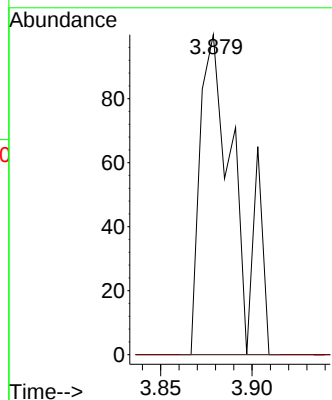
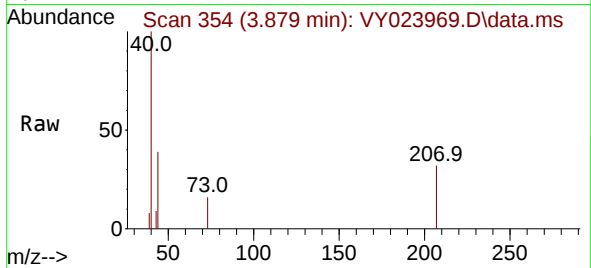




#16
Acetone
Concen: Below Cal
RT: 3.879 min Scan# 316
Delta R.T. 0.000 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

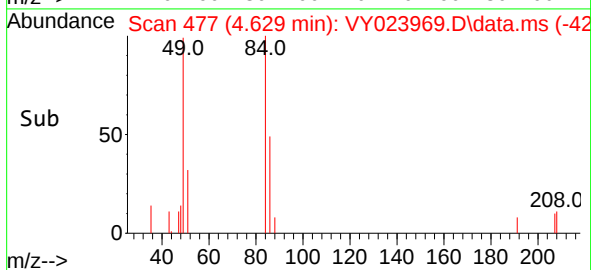
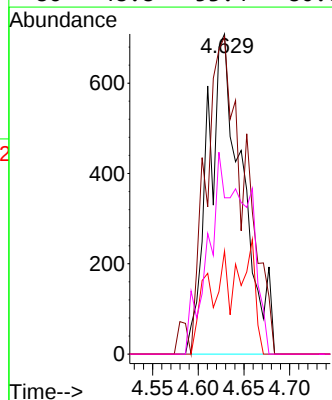
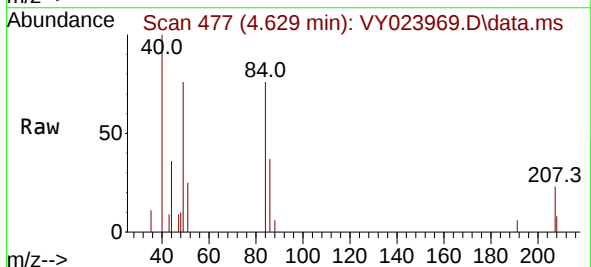
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-121225

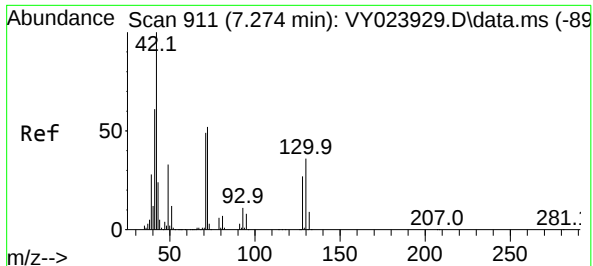
Tgt Ion: 43 Resp: 137
Ion Ratio Lower Upper
43 100
58 0.0 26.4 39.6#



#20
Methylene Chloride
Concen: 6.493 ug/l
RT: 4.629 min Scan# 477
Delta R.T. 0.000 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

Tgt Ion: 84 Resp: 1849
Ion Ratio Lower Upper
84 100
49 99.2 89.1 133.7
51 32.2 26.6 39.8
86 48.8 53.4 80.0#





#29

Tetrahydrofuran

Concen: 2.411 ug/l

RT: 7.256 min Scan# 90

Delta R.T. -0.018 min

Lab File: VY023969.D

Acq: 15 Dec 2025 12:16

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-121225

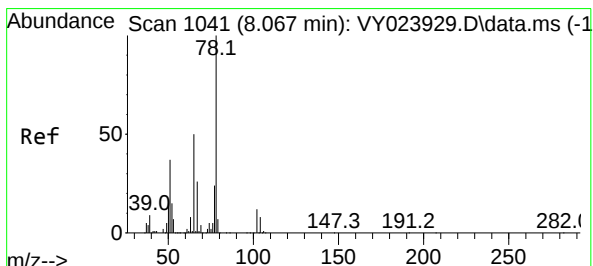
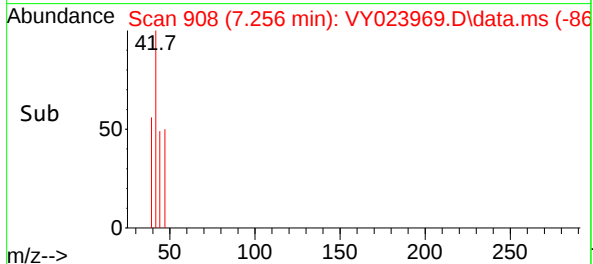
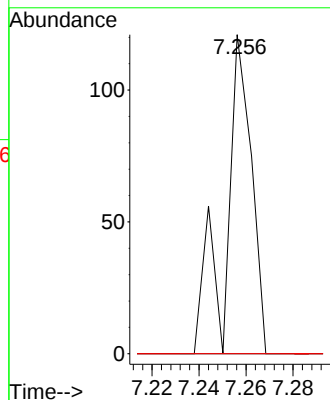
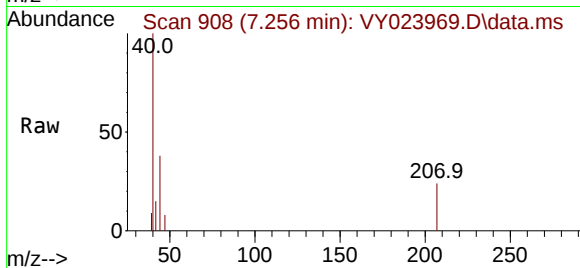
Tgt Ion: 42 Resp: 92

Ion Ratio Lower Upper

42 100

72 0.0 40.0 60.0#

71 0.0 37.7 56.5#



#33

1,2-Dichloroethane-d4

Concen: 44.619 ug/l

RT: 8.079 min Scan# 1043

Delta R.T. 0.012 min

Lab File: VY023969.D

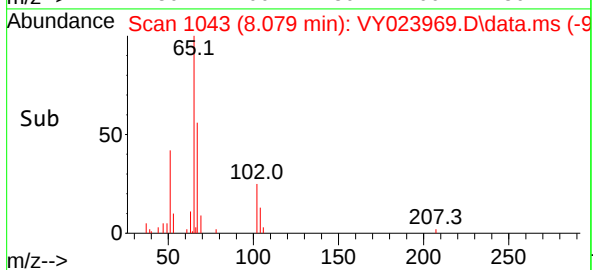
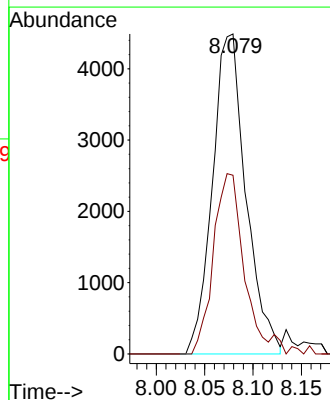
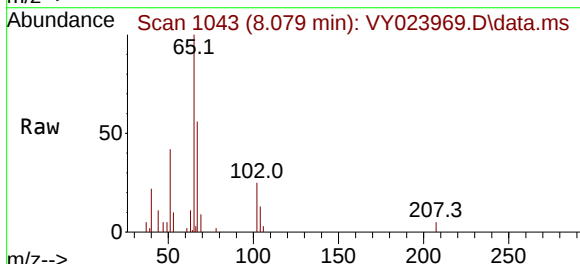
Acq: 15 Dec 2025 12:16

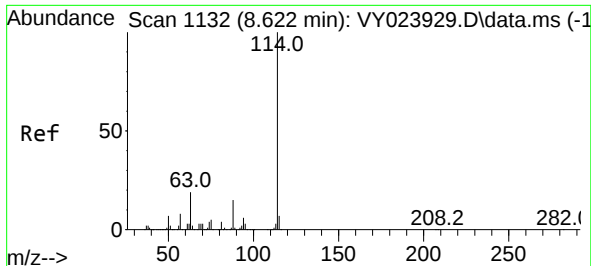
Tgt Ion: 65 Resp: 10801

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VY023969.D

Acq: 15 Dec 2025 12:16

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-121225

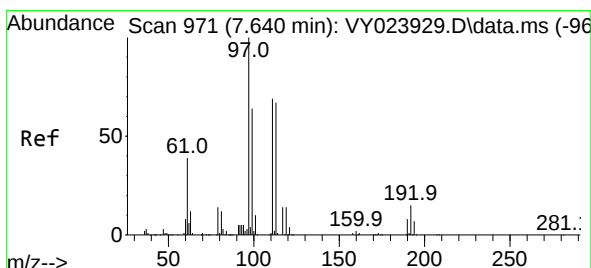
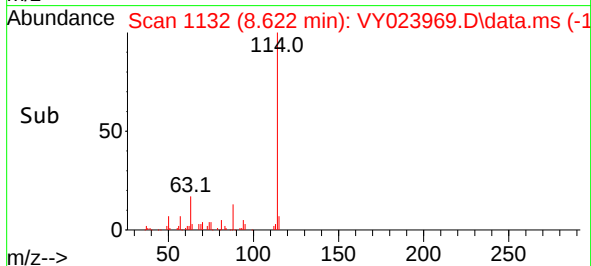
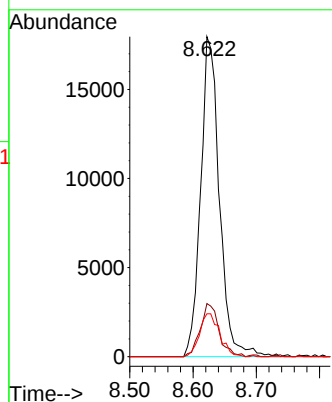
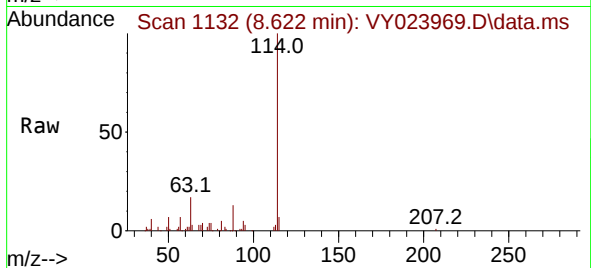
Tgt Ion:114 Resp: 37078

Ion Ratio Lower Upper

114 100

63 16.6 0.0 37.2

88 13.4 0.0 29.4



#35

Dibromofluoromethane

Concen: 46.243 ug/l

RT: 7.646 min Scan# 972

Delta R.T. 0.006 min

Lab File: VY023969.D

Acq: 15 Dec 2025 12:16

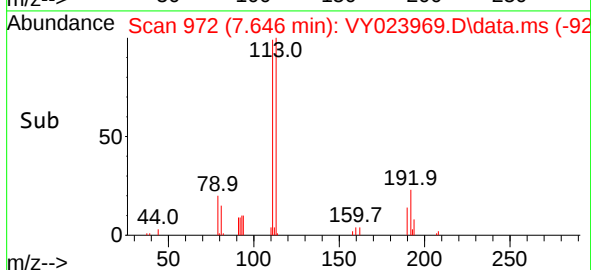
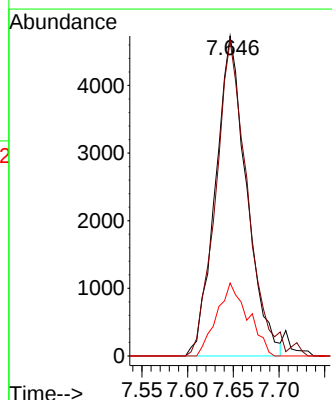
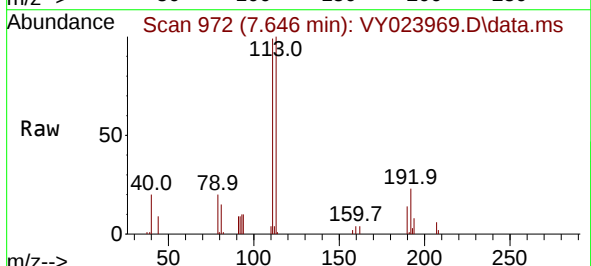
Tgt Ion:113 Resp: 11208

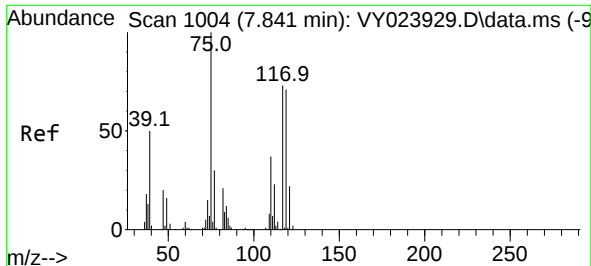
Ion Ratio Lower Upper

113 100

111 101.1 82.4 123.6

192 22.9 17.9 26.9

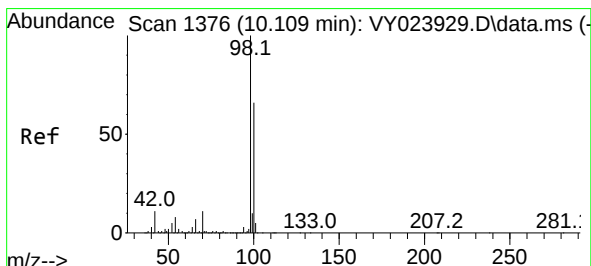
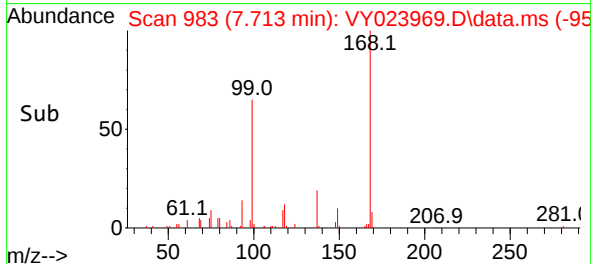
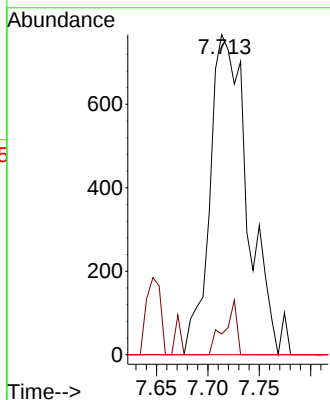
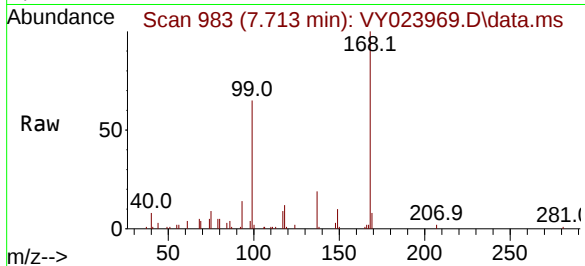




#36
 1,1-Dichloropropene
 Concen: 5.858 ug/l
 RT: 7.713 min Scan# 91
 Delta R.T. -0.128 min
 Lab File: VY023969.D
 Acq: 15 Dec 2025 12:16

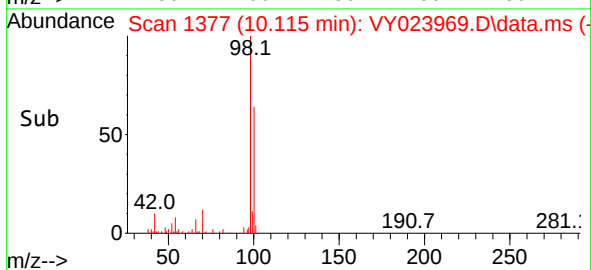
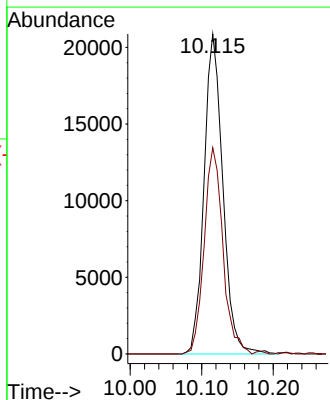
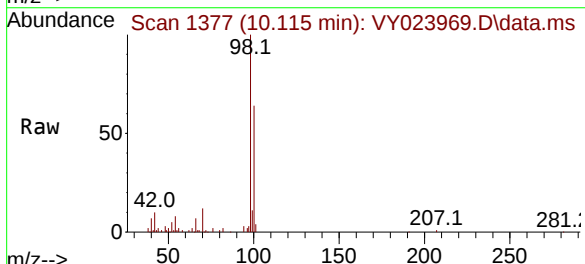
Instrument :
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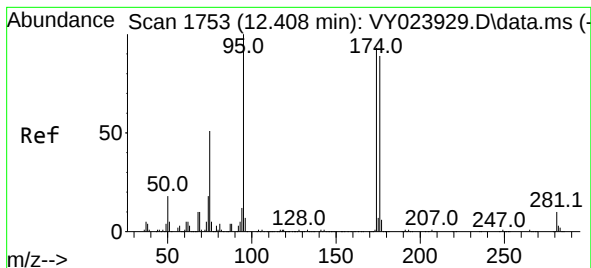
Tgt Ion: 75 Resp: 1933
 Ion Ratio Lower Upper
 75 100
 110 5.8 19.2 57.6#
 77 0.0 24.4 36.6#



#50
 Toluene-d8
 Concen: 42.201 ug/l
 RT: 10.115 min Scan# 1377
 Delta R.T. 0.006 min
 Lab File: VY023969.D
 Acq: 15 Dec 2025 12:16

Tgt Ion: 98 Resp: 38082
 Ion Ratio Lower Upper
 98 100
 100 64.3 52.8 79.2

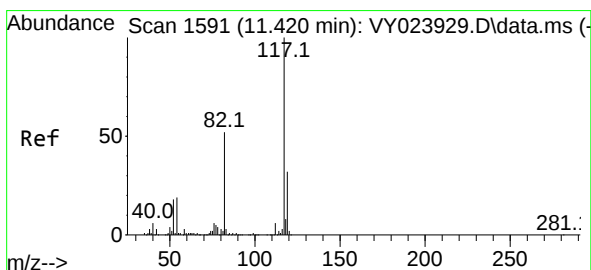
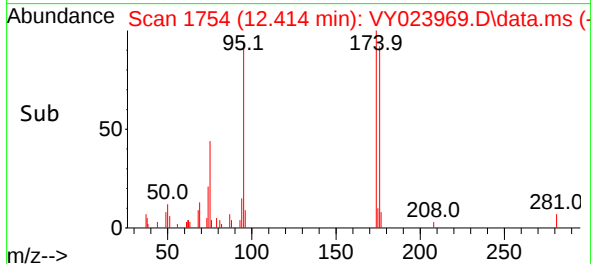
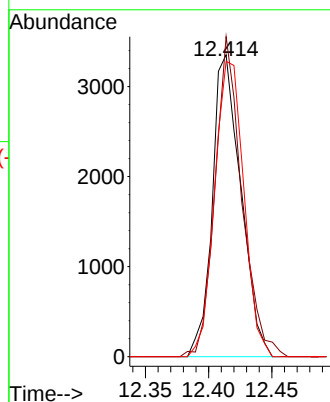
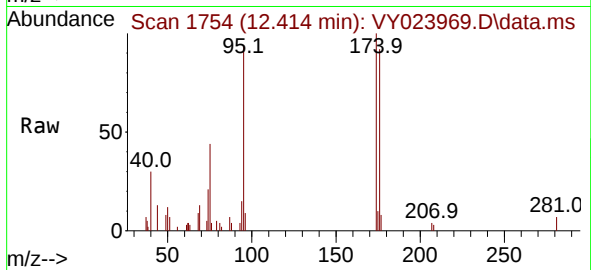




#62
4-Bromofluorobenzene
Concen: 17.448 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

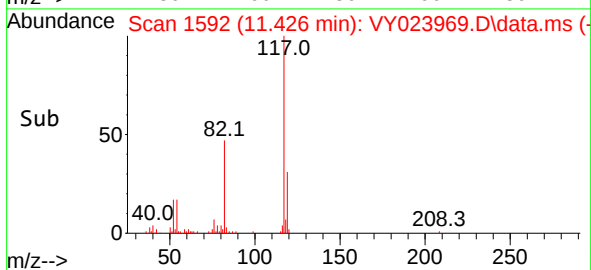
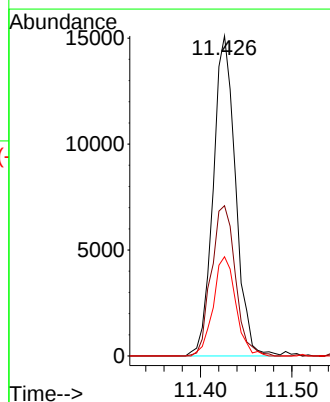
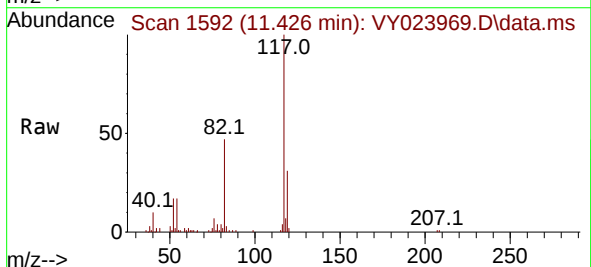
Instrument :
MSVOA_Y
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HD-02-121225

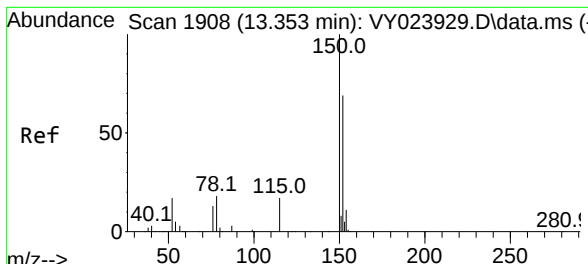
Tgt Ion: 95 Resp: 5258
Ion Ratio Lower Upper
95 100
174 99.3 0.0 187.4
176 100.2 0.0 179.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.006 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

Tgt Ion: 117 Resp: 25688
Ion Ratio Lower Upper
117 100
82 47.0 41.4 62.2
119 31.0 25.5 38.3

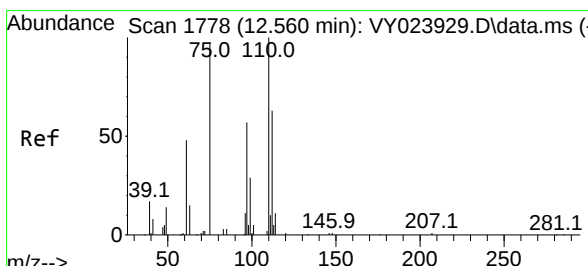
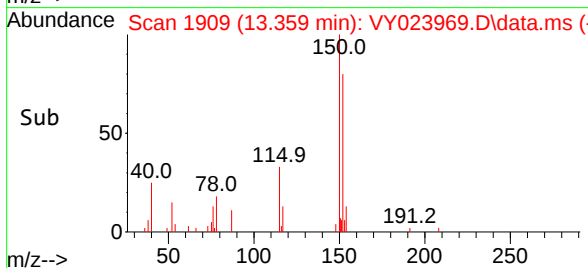
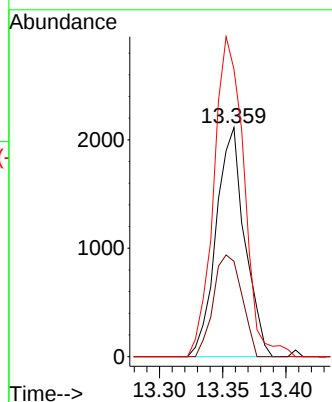
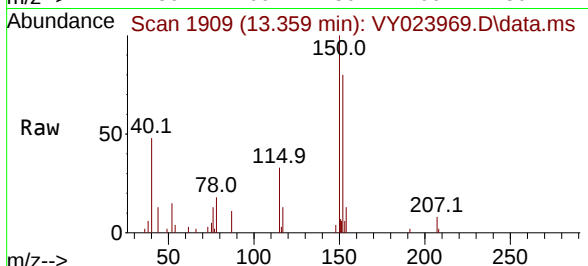




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.359 min Scan# 1908
 Delta R.T. 0.006 min
 Lab File: VY023969.D
 Acq: 15 Dec 2025 12:16

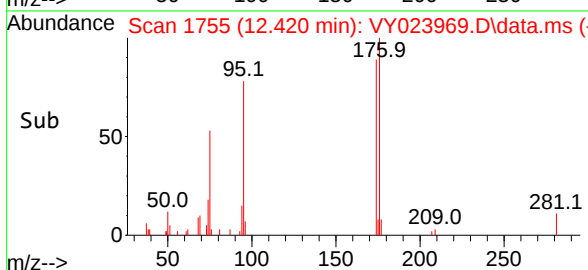
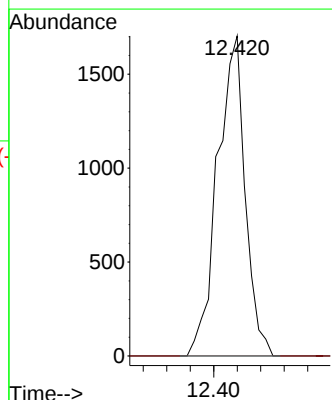
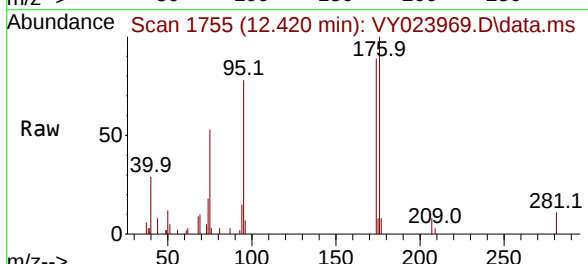
Instrument :
 MSVOA_Y
 ClientSampleId :
 HD-02-121225

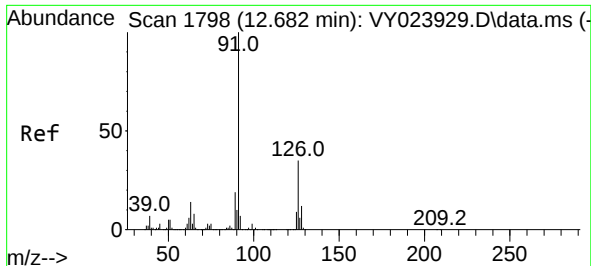
Tgt Ion:152 Resp: 3330
 Ion Ratio Lower Upper
 152 100
 115 44.2 27.3 81.9
 150 147.3 0.0 347.6



#76
 1,2,3-Trichloropropane
 Concen: 98.870 ug/l
 RT: 12.420 min Scan# 1755
 Delta R.T. -0.140 min
 Lab File: VY023969.D
 Acq: 15 Dec 2025 12:16

Tgt Ion: 75 Resp: 2785
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

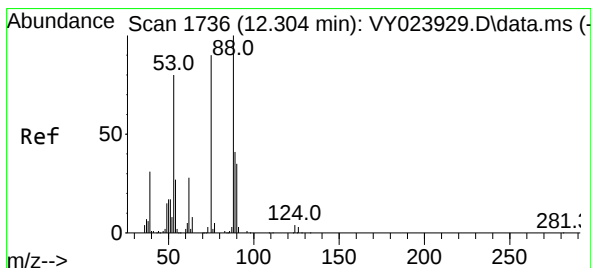
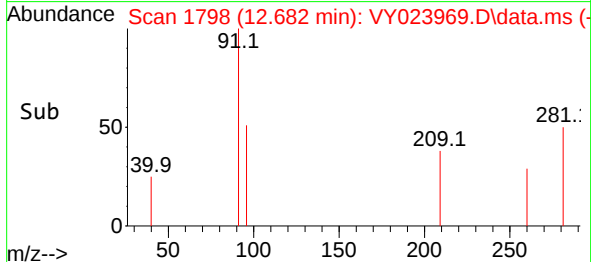
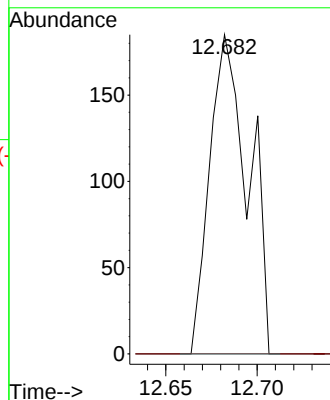
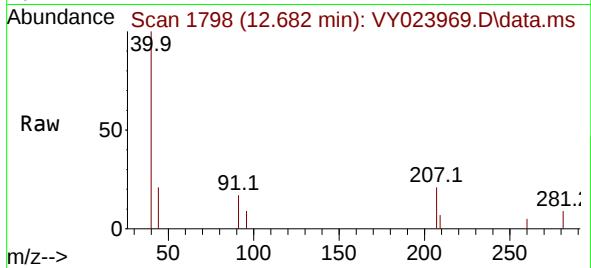




#79
2-Chlorotoluene
Concen: 1.697 ug/l
RT: 12.682 min Scan# 1798
Delta R.T. 0.000 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

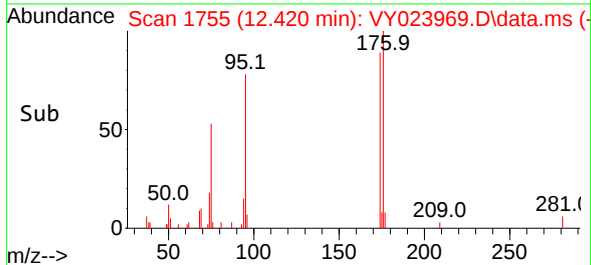
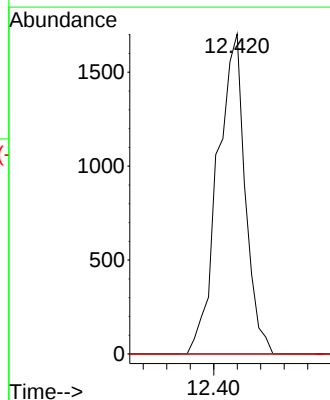
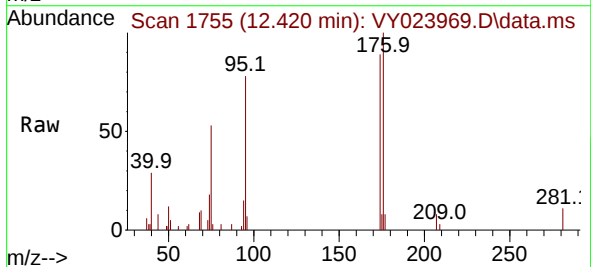
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-121225

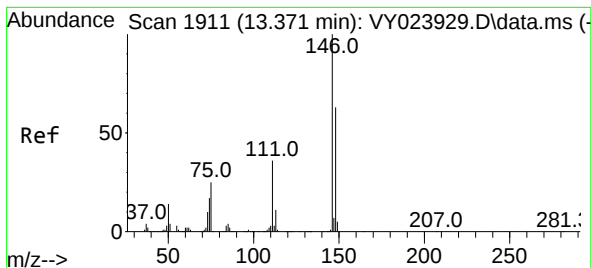
Tgt Ion: 91 Resp: 273
Ion Ratio Lower Upper
91 100
126 0.0 17.9 53.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 225.052 ug/l
RT: 12.420 min Scan# 1755
Delta R.T. 0.116 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

Tgt Ion: 75 Resp: 2785
Ion Ratio Lower Upper
75 100
53 0.0 73.4 110.0#
89 0.0 38.9 58.3#





#88

1,4-Dichlorobenzene

Concen: 1.609 ug/l

RT: 13.383 min Scan# 1913

Delta R.T. 0.012 min

Lab File: VY023969.D

Acq: 15 Dec 2025 12:16

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-121225

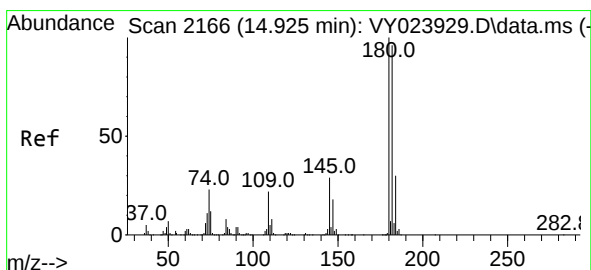
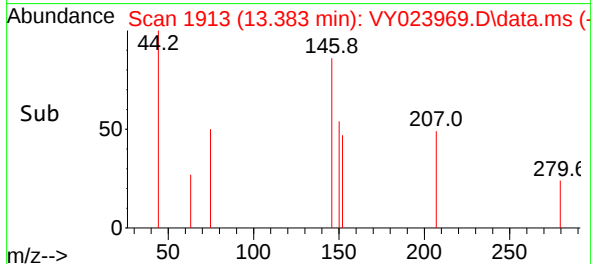
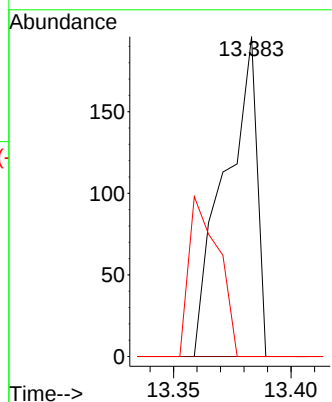
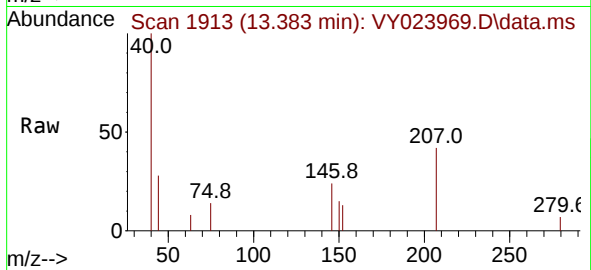
Tgt Ion:146 Resp: 186

Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.0#

148 0.0 31.9 95.9#



#93

1,2,4-Trichlorobenzene

Concen: 5.158 ug/l

RT: 14.938 min Scan# 2168

Delta R.T. 0.012 min

Lab File: VY023969.D

Acq: 15 Dec 2025 12:16

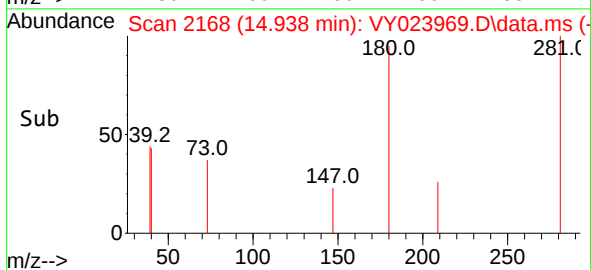
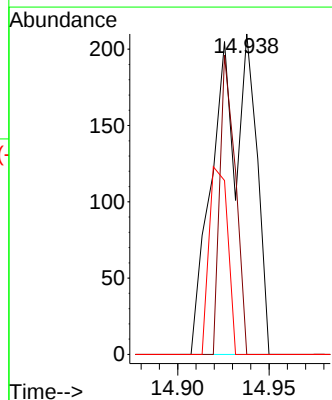
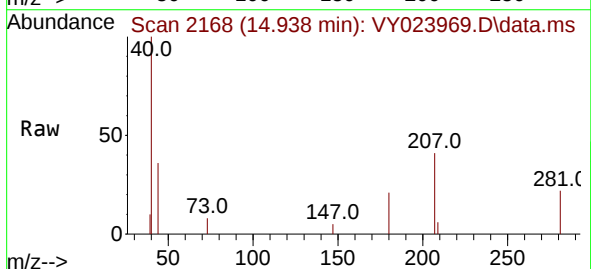
Tgt Ion:180 Resp: 308

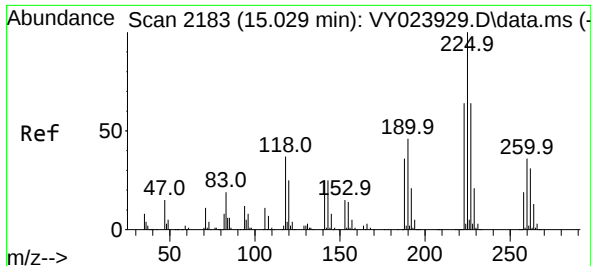
Ion Ratio Lower Upper

180 100

182 37.7 47.6 142.9#

145 28.2 14.8 44.4

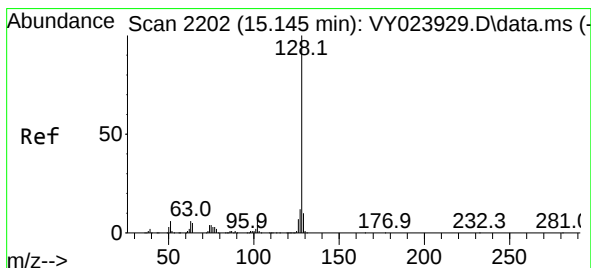
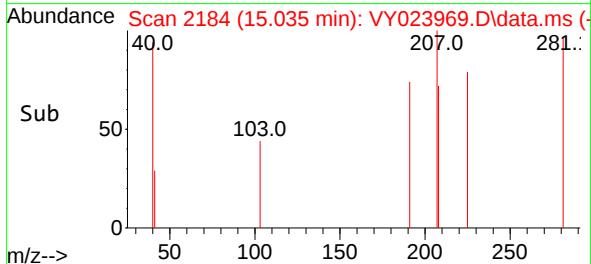
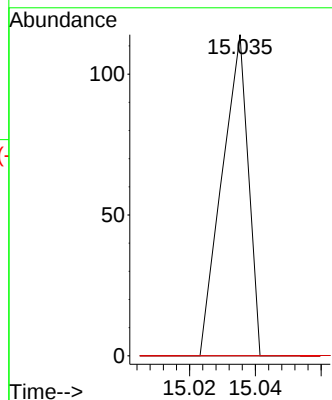
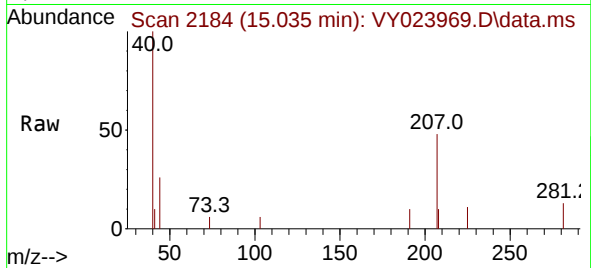




#94
Hexachlorobutadiene
Concen: 1.610 ug/l
RT: 15.035 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

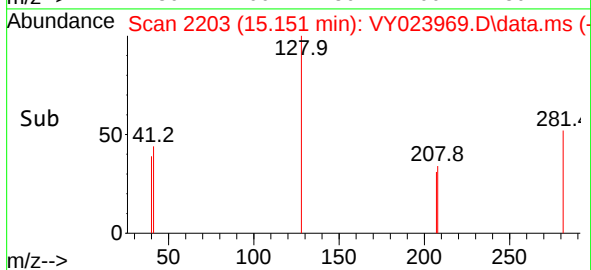
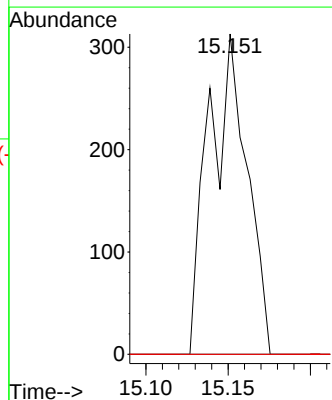
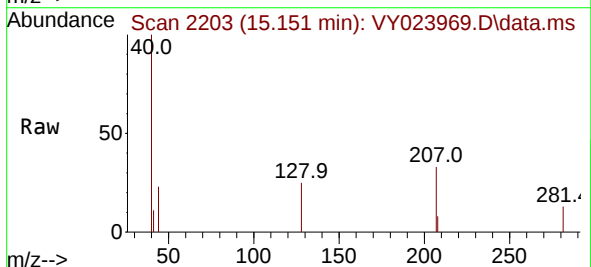
Instrument :
MSVOA_Y
ClientSampleId :
HD-02-121225

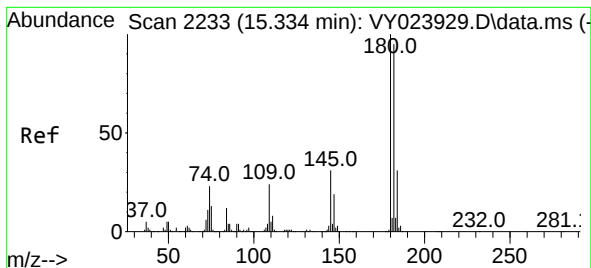
Tgt Ion:225 Resp: 63
Ion Ratio Lower Upper
225 100
223 0.0 31.6 95.0#
227 0.0 31.7 95.1#



#95
Naphthalene
Concen: 5.469 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.006 min
Lab File: VY023969.D
Acq: 15 Dec 2025 12:16

Tgt Ion:128 Resp: 505
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 12.8#





#96

1,2,3-Trichlorobenzene

Concen: 5.215 ug/l

RT: 15.340 min Scan# 21

Delta R.T. 0.006 min

Lab File: VY023969.D

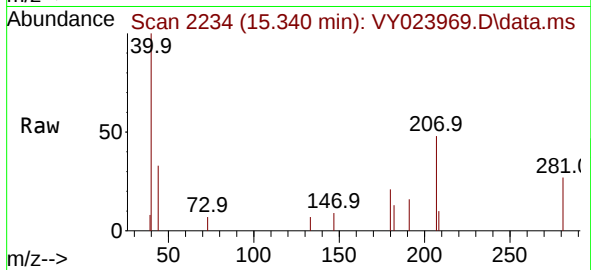
Acq: 15 Dec 2025 12:16

Instrument :

MSVOA_Y

ClientSampleId :

HD-02-121225



Tgt Ion:180 Resp: 265

Ion Ratio Lower Upper

180 100

182 23.8 47.8 143.4#

145 0.0 15.6 46.8#

