

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121125\
 Data File : VY023954.D
 Acq On : 11 Dec 2025 14:55
 Operator : SY/MD
 Sample : Q3809-08
 Misc : 3.00g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-5

Quant Time: Dec 12 03:24:08 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)

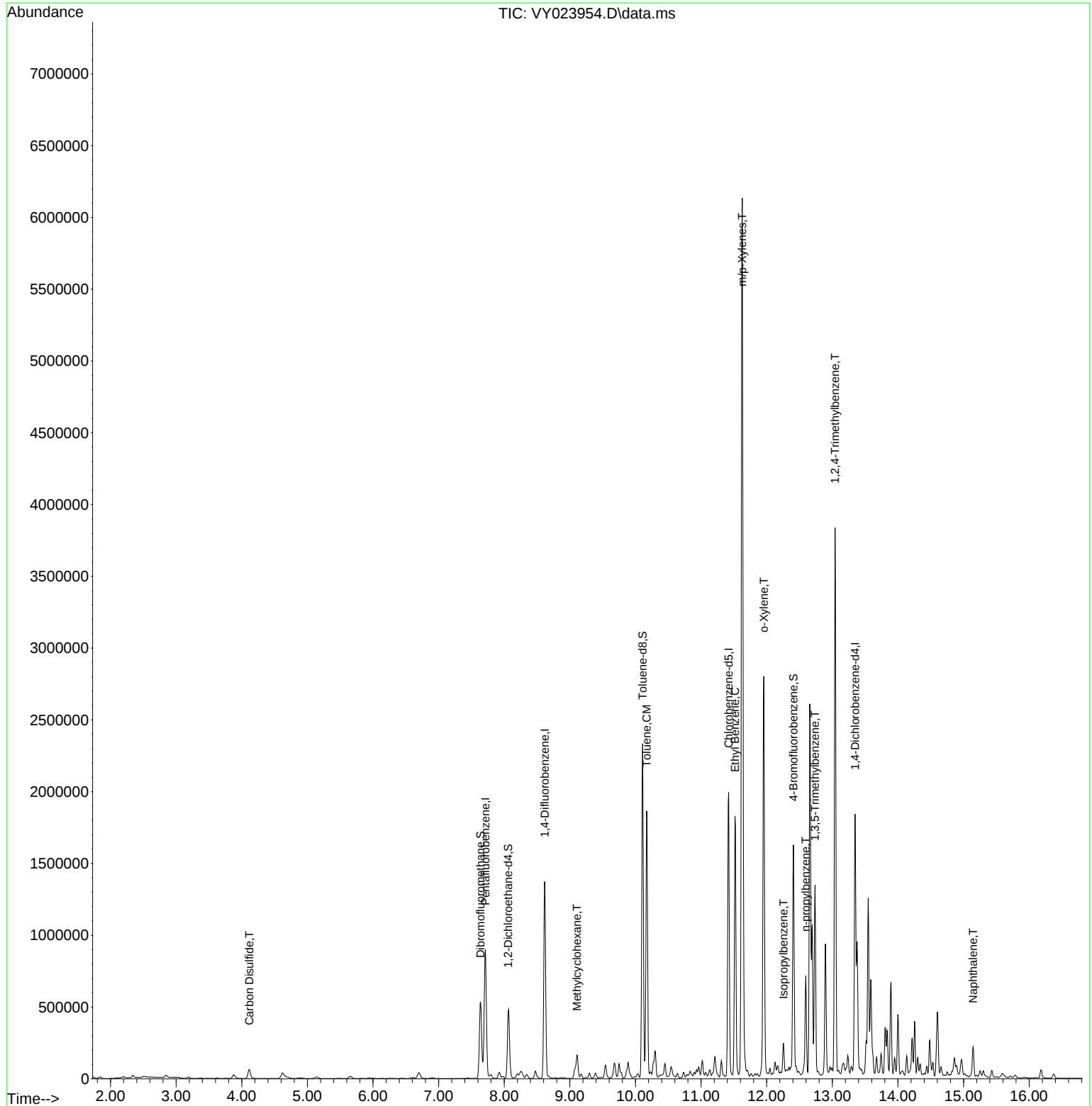
Internal Standards						
1) Pentafluorobenzene	7.713	168	700634	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1224699	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1110669	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	474110	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	372892	60.196	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	120.400%
35) Dibromofluoromethane	7.640	113	389118	48.605	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.220%
50) Toluene-d8	10.109	98	1455310	48.826	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.660%
62) 4-Bromofluorobenzene	12.407	95	453378	45.547	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	91.100%
Target Compounds						
					Qvalue	
17) Carbon Disulfide	4.116	76	132035	7.820	ug/l	99
39) Methylcyclohexane	9.109	83	68091	4.676	ug/l	90
52) Toluene	10.170	92	776818	35.370	ug/l	98
67) Ethyl Benzene	11.517	91	1243998	28.849	ug/l	99
68) m/p-Xylenes	11.627	106	1867299	109.085	ug/l	100
69) o-Xylene	11.956	106	723451	45.179	ug/l	98
73) Isopropylbenzene	12.255	105	136340	3.935	ug/l	99
78) n-propylbenzene	12.596	91	508500	12.614	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	608589	22.017	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	1994002	72.819	ug/l	100
95) Naphthalene	15.145	128	170339	12.958	ug/l	98

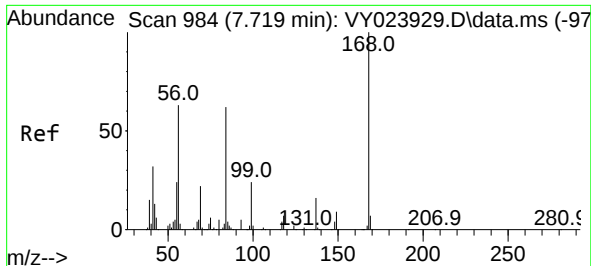
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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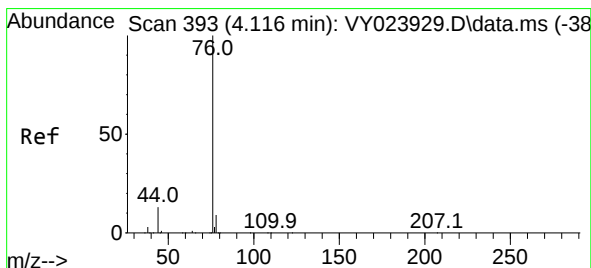
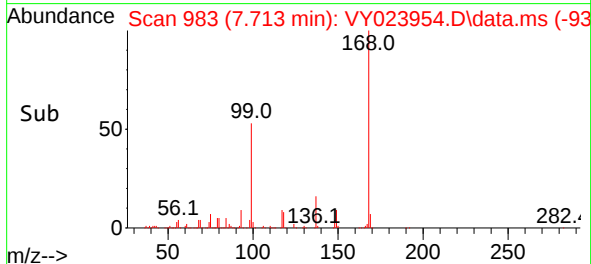
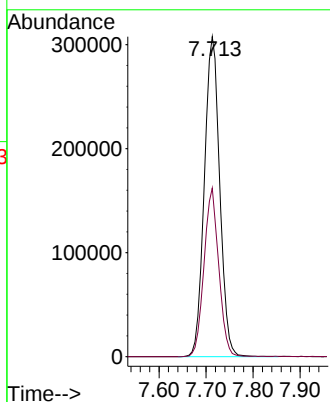
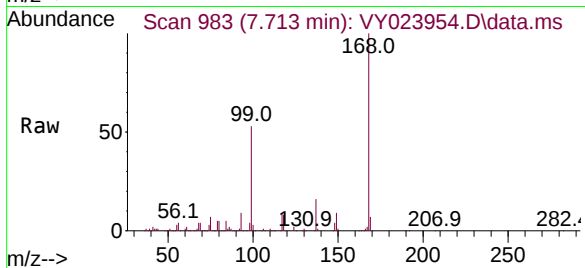




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 984
Delta R.T. -0.006 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

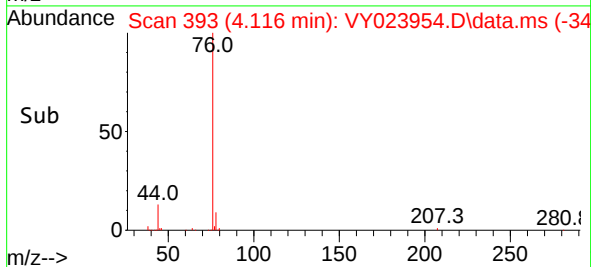
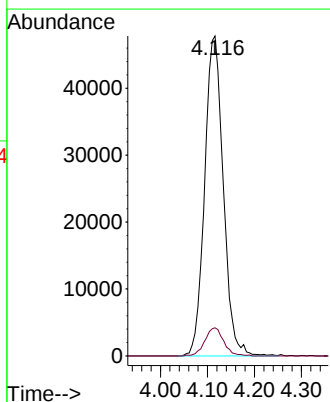
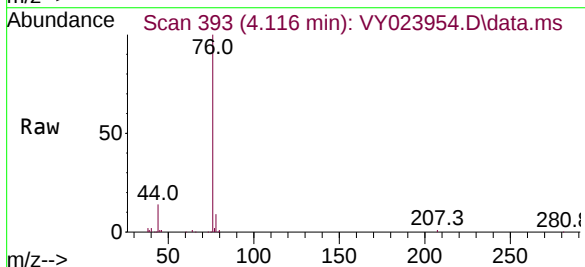
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

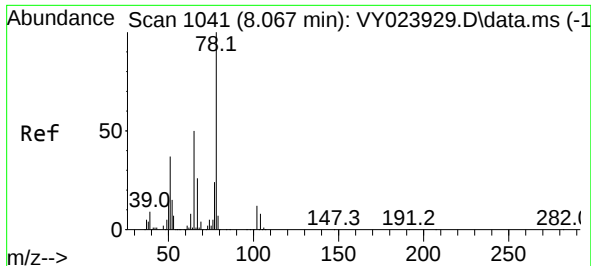
Tgt Ion:168 Resp: 700634
Ion Ratio Lower Upper
168 100
99 52.7 38.9 58.3



#17
Carbon Disulfide
Concen: 7.820 ug/l
RT: 4.116 min Scan# 393
Delta R.T. -0.000 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

Tgt Ion: 76 Resp: 132035
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.2





#33

1,2-Dichloroethane-d4

Concen: 60.196 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

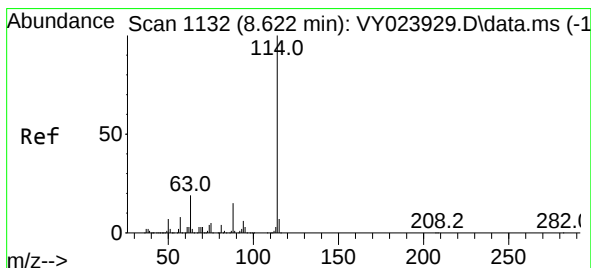
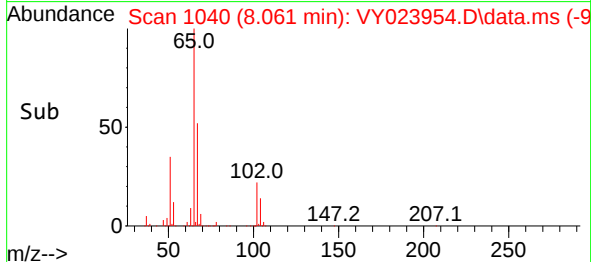
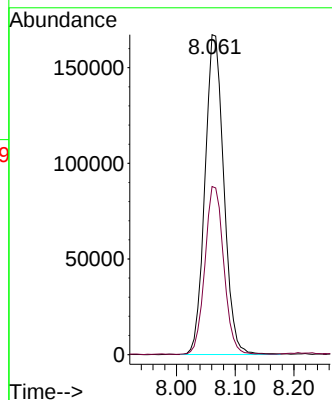
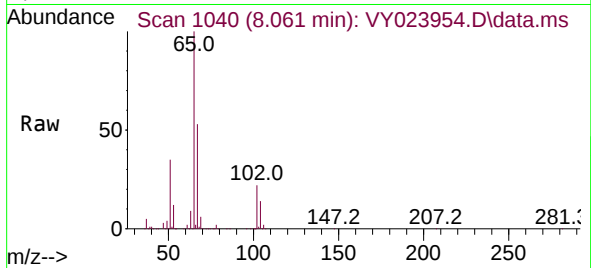
SW-5

Tgt Ion: 65 Resp: 372892

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

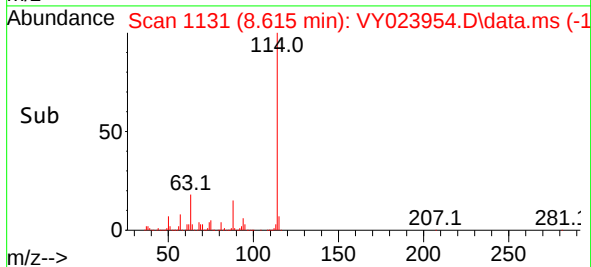
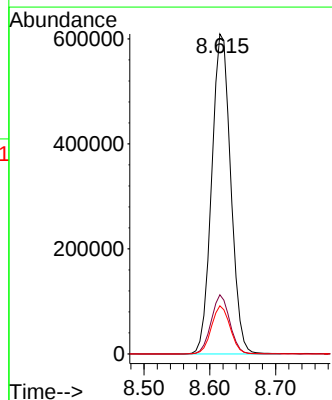
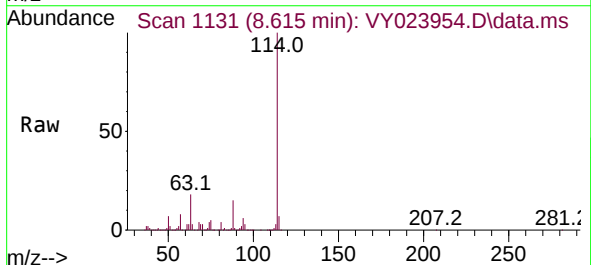
Tgt Ion: 114 Resp: 1224699

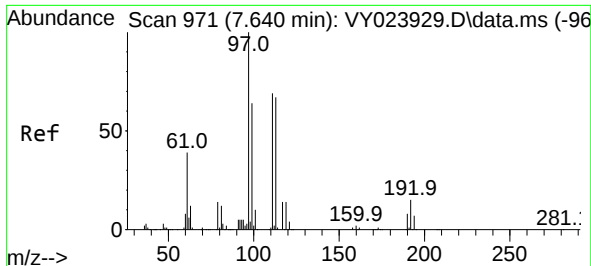
Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.2

88 15.0 0.0 29.4





#35

Dibromofluoromethane

Concen: 48.605 ug/l

RT: 7.640 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

SW-5

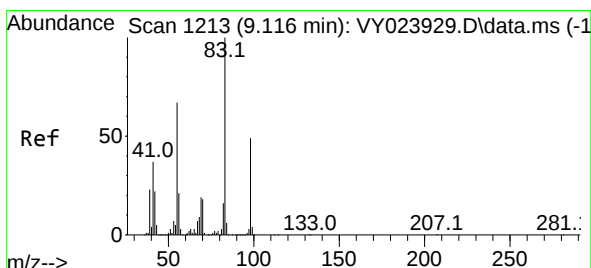
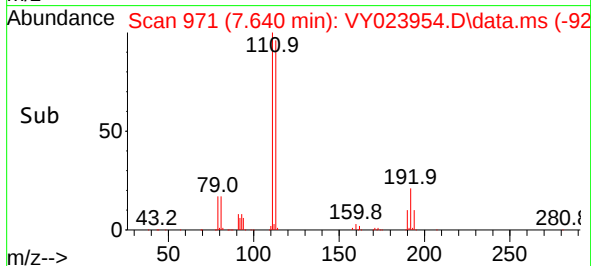
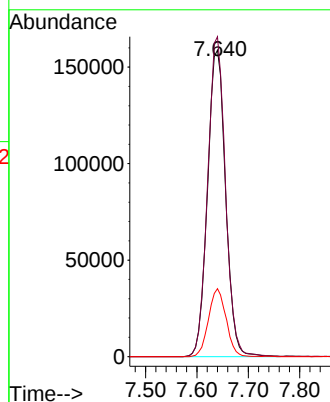
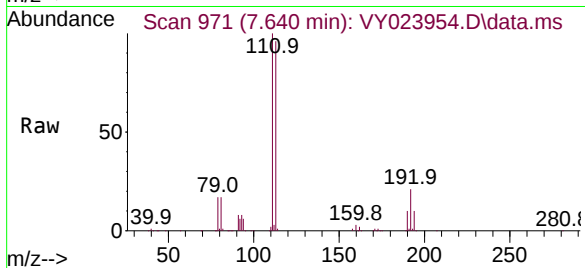
Tgt Ion:113 Resp: 389118

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

192 21.5 17.9 26.9



#39

Methylcyclohexane

Concen: 4.676 ug/l

RT: 9.109 min Scan# 1212

Delta R.T. -0.006 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

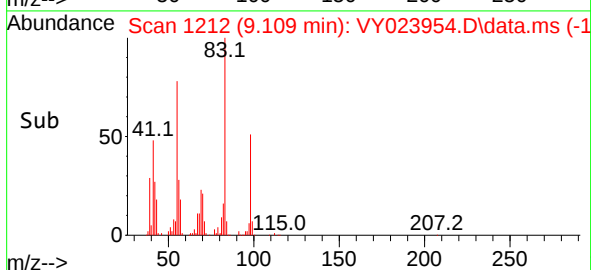
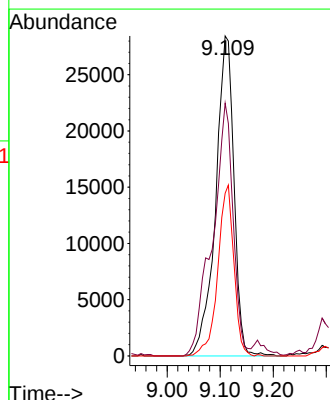
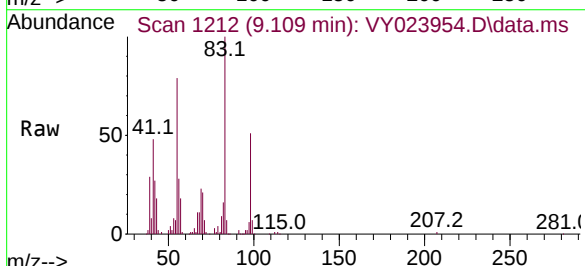
Tgt Ion: 83 Resp: 68091

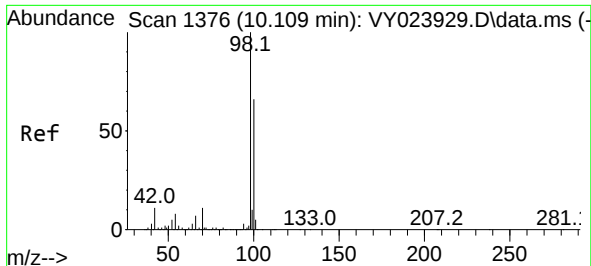
Ion Ratio Lower Upper

83 100

55 79.0 53.4 80.0

98 50.8 39.2 58.8

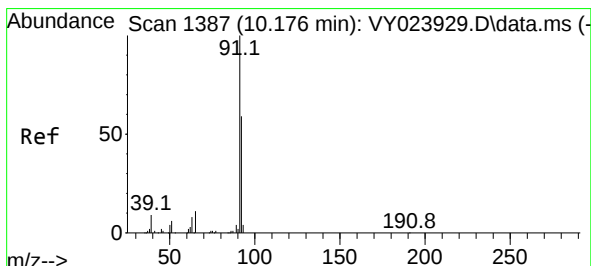
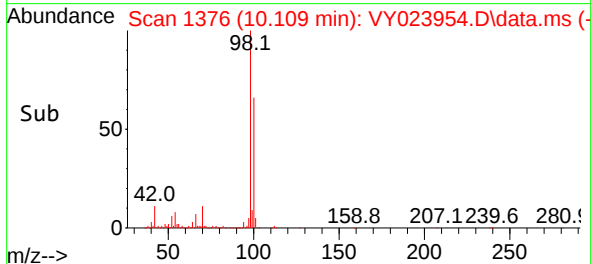
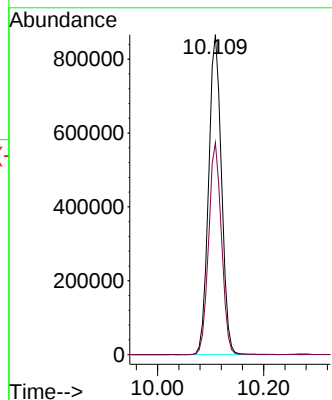
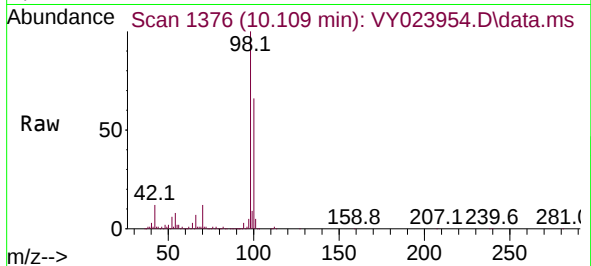




#50
Toluene-d8
Concen: 48.826 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

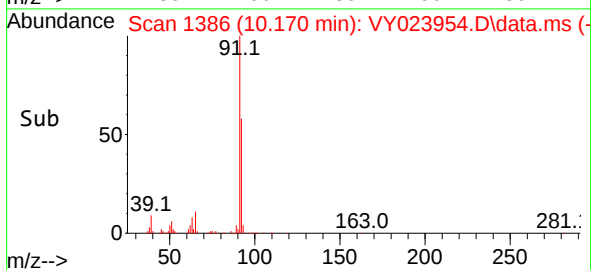
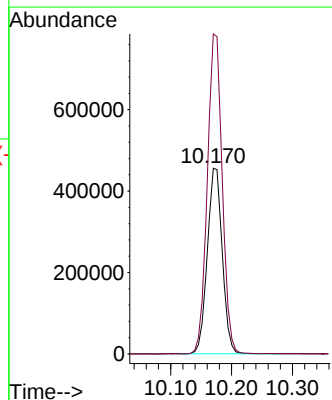
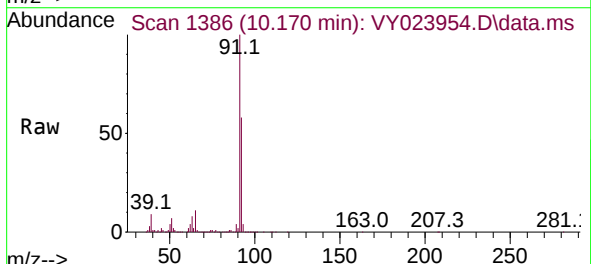
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

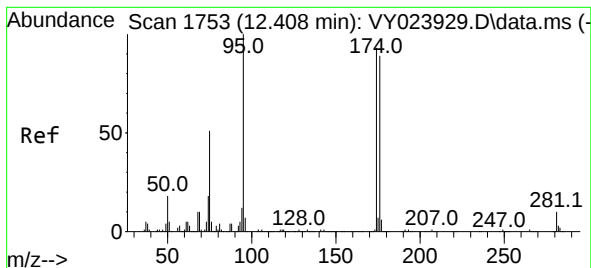
Tgt Ion: 98 Resp: 1455310
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2



#52
Toluene
Concen: 35.370 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

Tgt Ion: 92 Resp: 776818
Ion Ratio Lower Upper
92 100
91 171.9 135.8 203.6

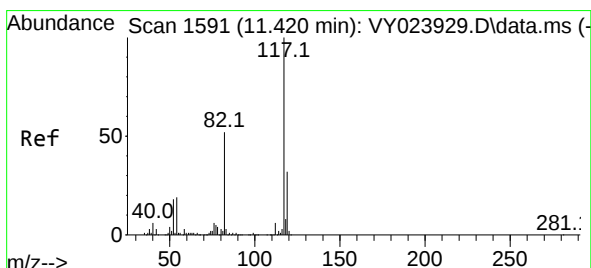
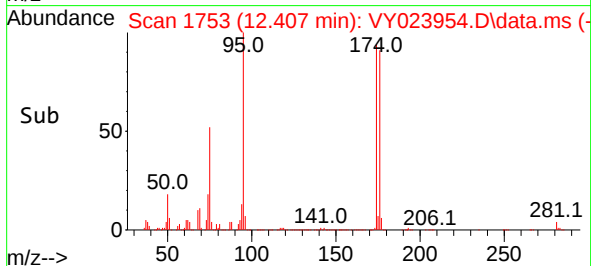
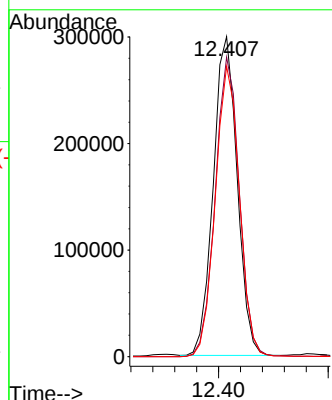
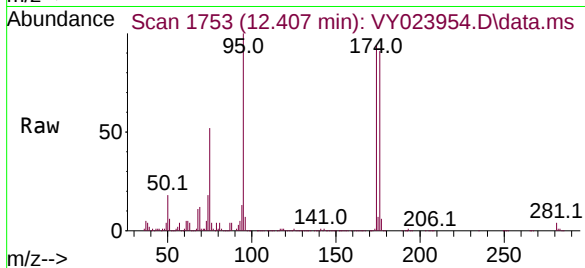




#62
4-Bromofluorobenzene
Concen: 45.547 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

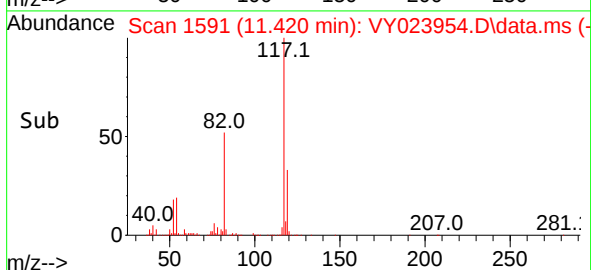
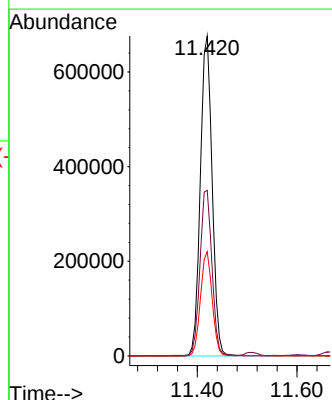
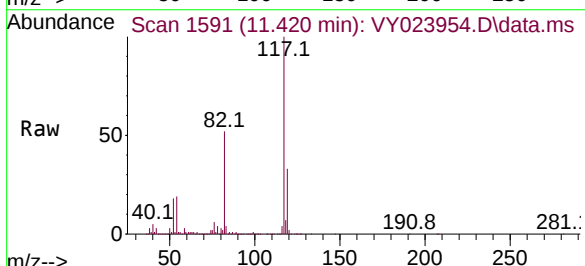
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

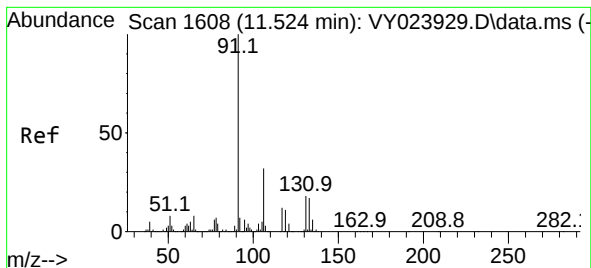
Tgt Ion: 95 Resp: 453378
Ion Ratio Lower Upper
95 100
174 94.6 0.0 187.4
176 91.9 0.0 179.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

Tgt Ion: 117 Resp: 1110669
Ion Ratio Lower Upper
117 100
82 51.7 41.4 62.2
119 32.6 25.5 38.3





#67

Ethyl Benzene

Concen: 28.849 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

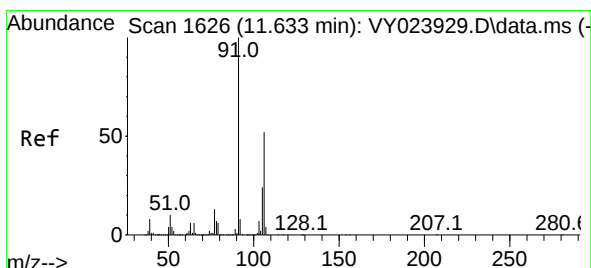
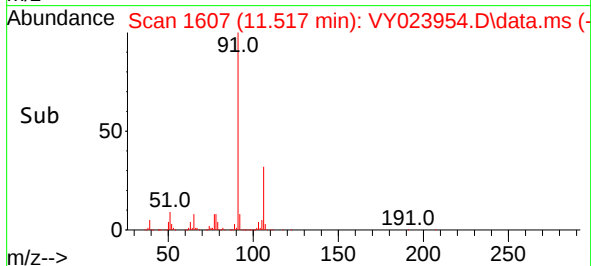
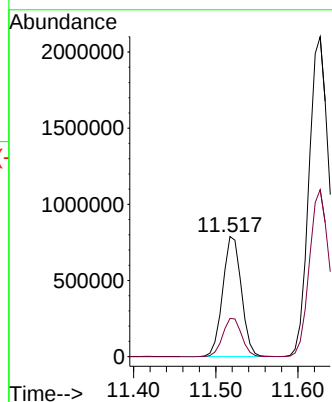
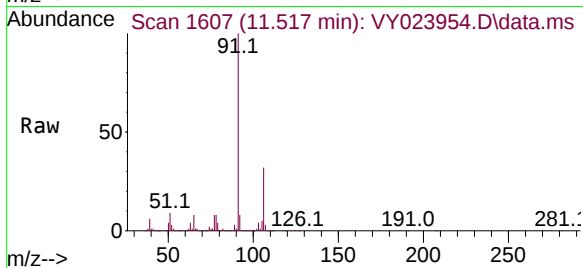
SW-5

Tgt Ion: 91 Resp: 1243998

Ion Ratio Lower Upper

91 100

106 31.8 25.8 38.8



#68

m/p-Xylenes

Concen: 109.085 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY023954.D

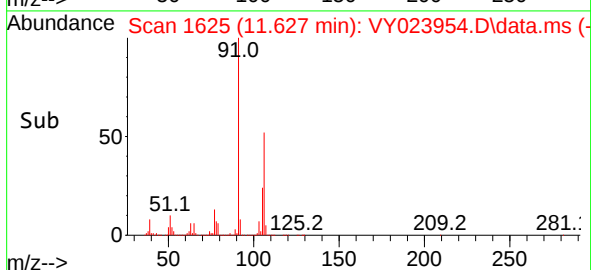
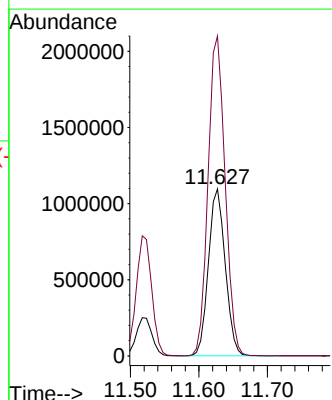
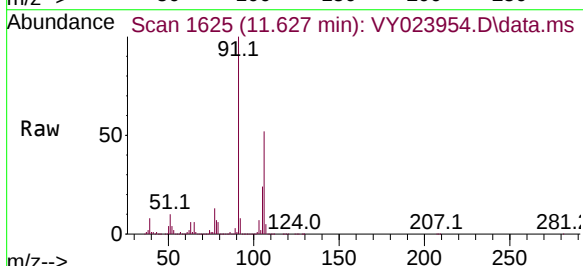
Acq: 11 Dec 2025 14:55

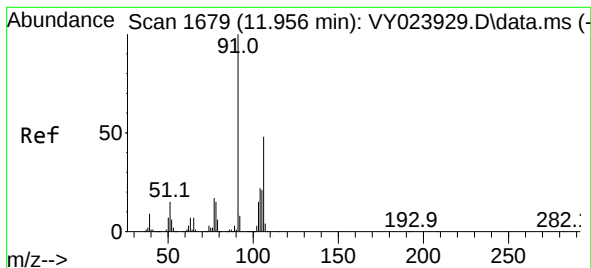
Tgt Ion:106 Resp: 1867299

Ion Ratio Lower Upper

106 100

91 194.5 155.0 232.6





#69

o-Xylene

Concen: 45.179 ug/l

RT: 11.956 min Scan# 1679

Delta R.T. -0.000 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

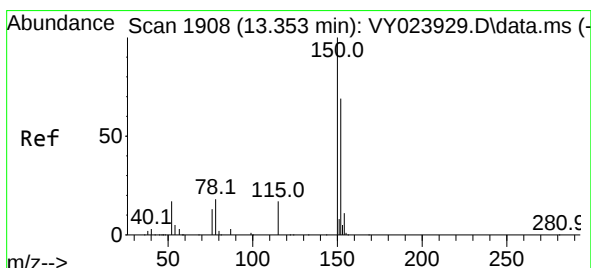
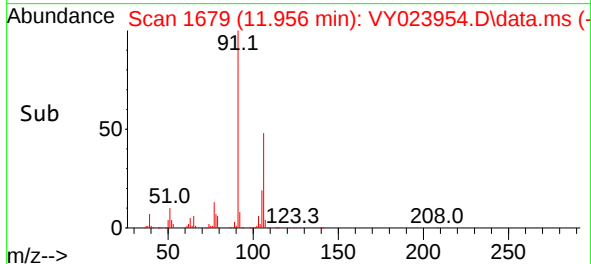
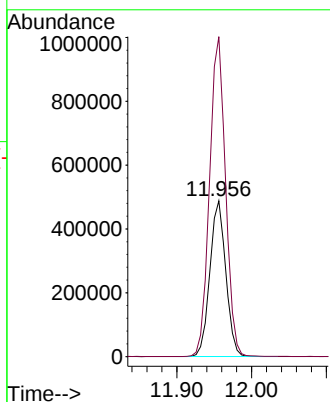
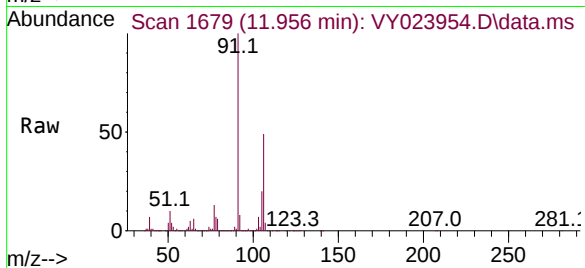
SW-5

Tgt Ion:106 Resp: 723451

Ion Ratio Lower Upper

106 100

91 206.6 102.1 306.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

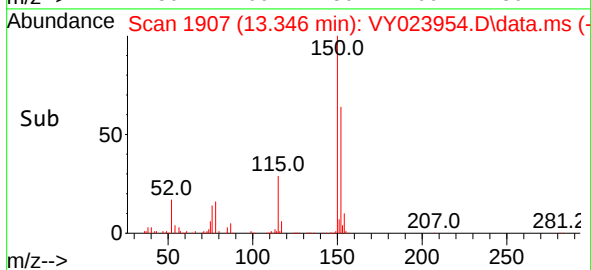
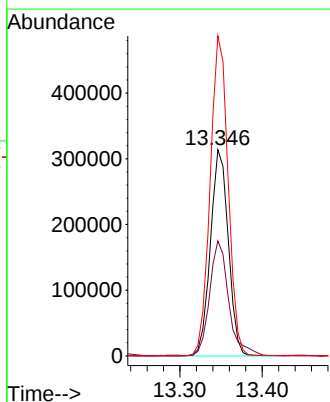
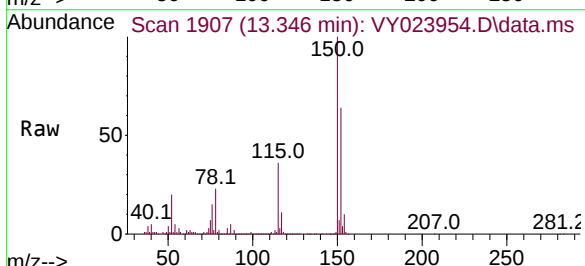
Tgt Ion:152 Resp: 474110

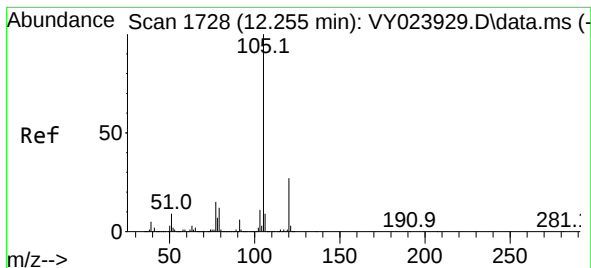
Ion Ratio Lower Upper

152 100

115 58.9 27.3 81.9

150 155.8 0.0 347.6





#73

Isopropylbenzene

Concen: 3.935 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. -0.000 min

Lab File: VY023954.D

Acq: 11 Dec 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

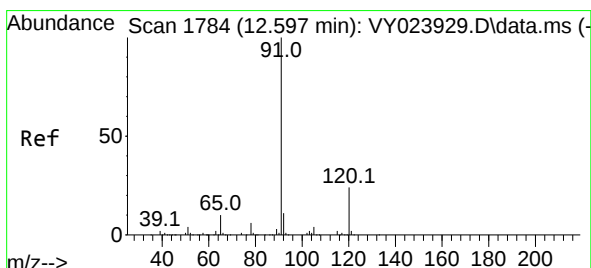
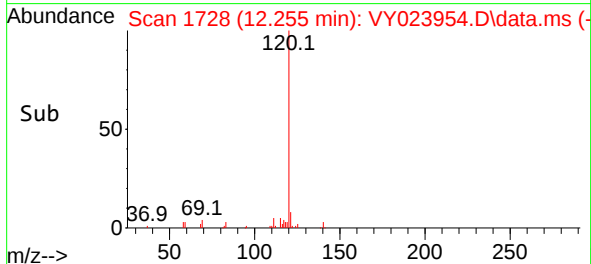
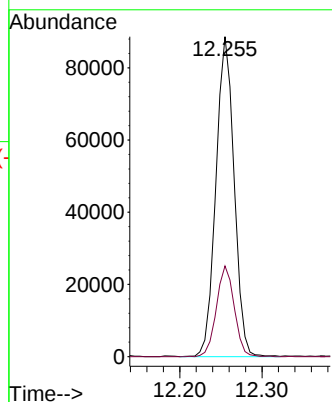
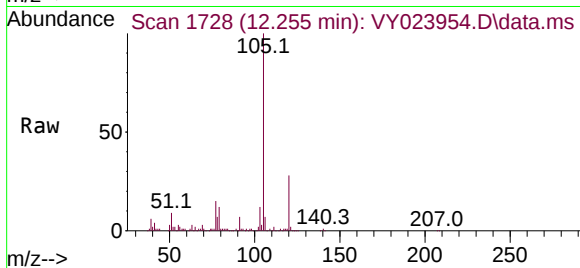
SW-5

Tgt Ion:105 Resp: 136340

Ion Ratio Lower Upper

105 100

120 27.7 13.7 41.0



#78

n-propylbenzene

Concen: 12.614 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VY023954.D

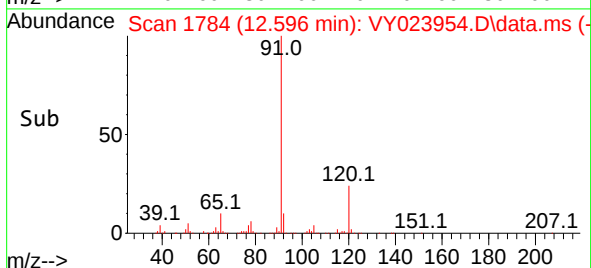
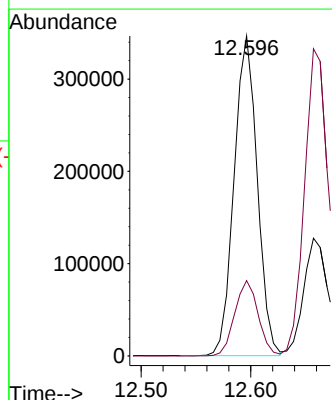
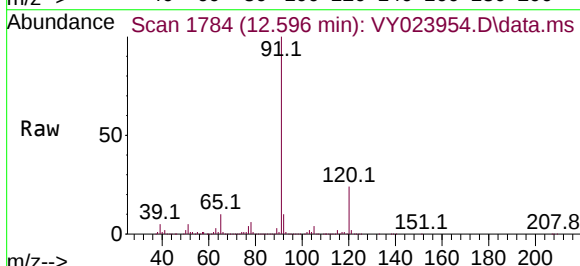
Acq: 11 Dec 2025 14:55

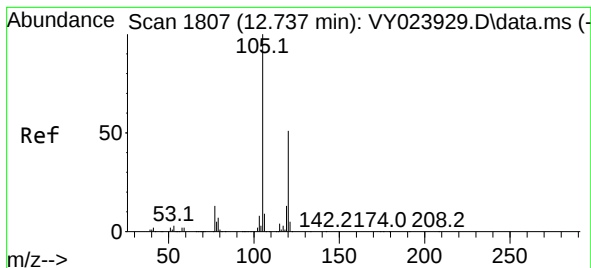
Tgt Ion: 91 Resp: 508500

Ion Ratio Lower Upper

91 100

120 23.8 12.0 36.0

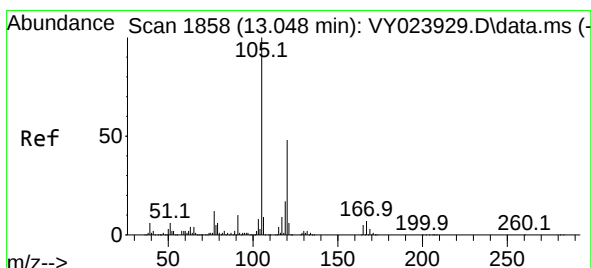
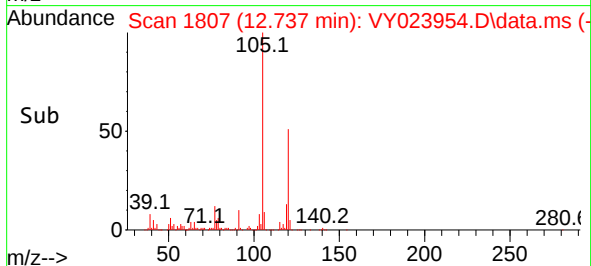
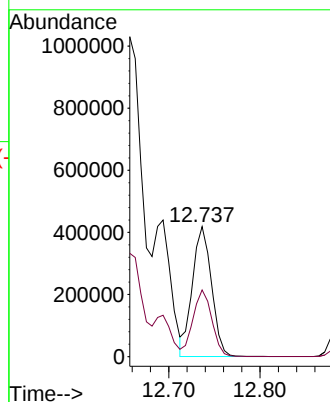
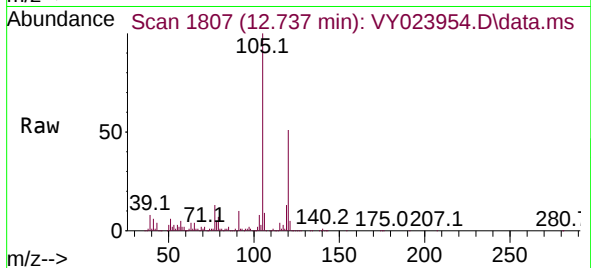




#80
1,3,5-Trimethylbenzene
Concen: 22.017 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

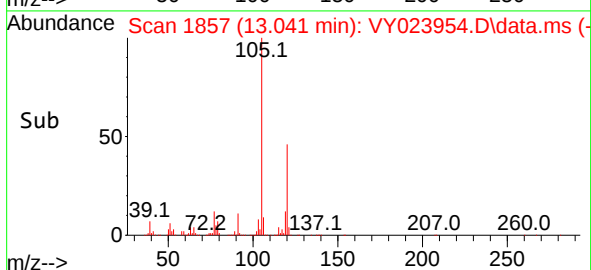
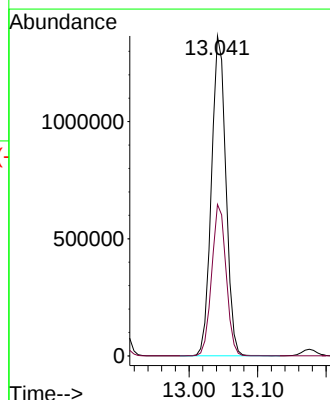
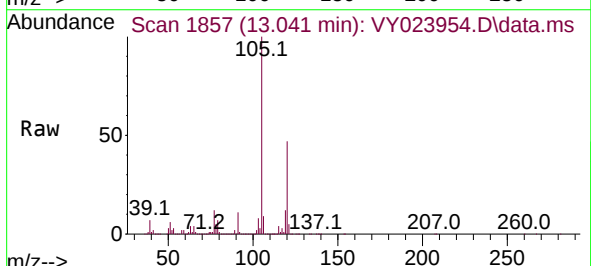
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

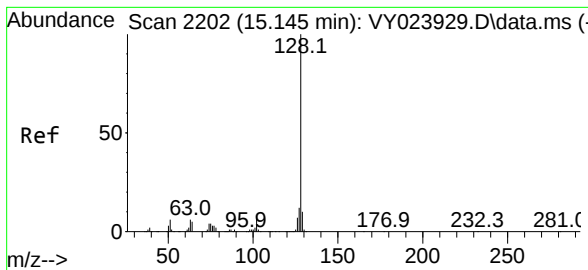
Tgt Ion:105 Resp: 608589
Ion Ratio Lower Upper
105 100
120 50.6 25.7 77.1



#84
1,2,4-Trimethylbenzene
Concen: 72.819 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY023954.D
Acq: 11 Dec 2025 14:55

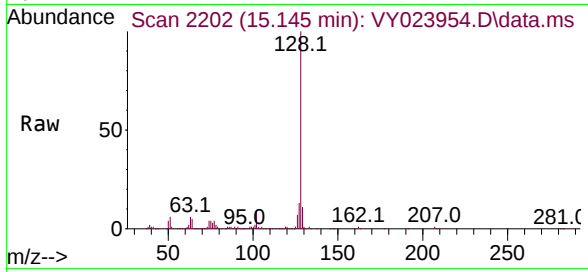
Tgt Ion:105 Resp: 1994002
Ion Ratio Lower Upper
105 100
120 47.2 23.4 70.3





#95
 Naphthalene
 Concen: 12.958 ug/l
 RT: 15.145 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY023954.D
 Acq: 11 Dec 2025 14:55

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-5



Tgt Ion:128 Resp: 170339

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.7	8.6	12.8

