

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023914.D
 Acq On : 09 Dec 2025 17:27
 Operator : SY/MD
 Sample : Q3809-11
 Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-8

Quant Time: Dec 10 02:31:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 03:49:13 2025
 Response via : Initial Calibration

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

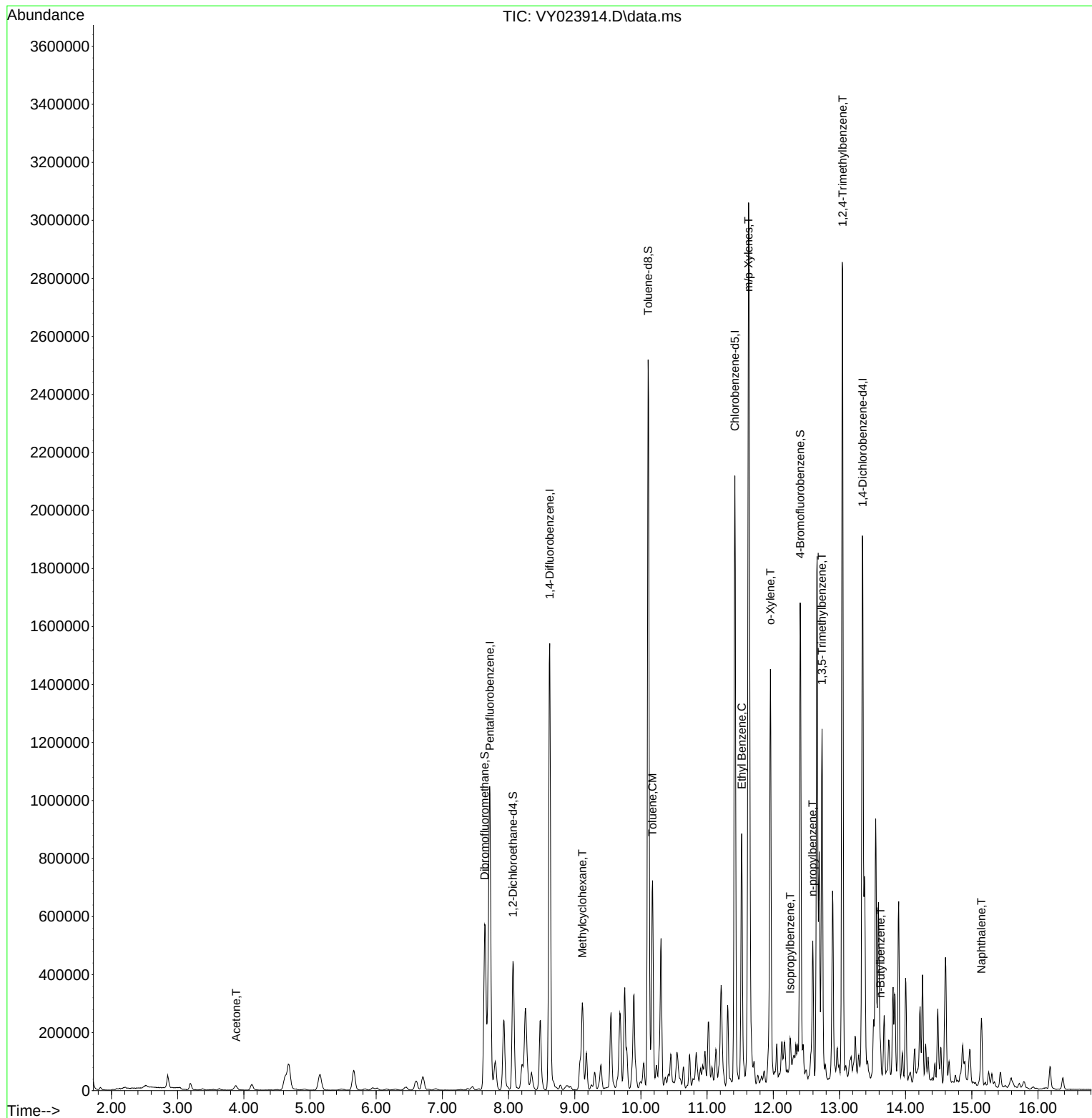
Internal Standards						
1) Pentafluorobenzene	7.719	168	812923	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1351229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1164671	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	504439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	349666	42.998	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.000%
35) Dibromofluoromethane	7.640	113	410410	47.356	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	94.720%
50) Toluene-d8	10.109	98	1561601	46.305	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.600%
62) 4-Bromofluorobenzene	12.408	95	476603	41.434	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	82.860%
Target Compounds						
					Qvalue	
16) Acetone	3.885	43	19239	7.895	ug/l	100
39) Methylcyclohexane	9.115	83	103187	6.203	ug/l	96
52) Toluene	10.176	92	303632	12.553	ug/l	100
67) Ethyl Benzene	11.524	91	561771	12.224	ug/l	98
68) m/p-Xylenes	11.627	106	913223	51.989	ug/l	95
69) o-Xylene	11.956	106	367162	22.348	ug/l	98
73) Isopropylbenzene	12.255	105	80668	2.171	ug/l	99
78) n-propylbenzene	12.597	91	351293	7.833	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	444770	14.728	ug/l	94
84) 1,2,4-Trimethylbenzene	13.048	105	1544268	51.619	ug/l	95
89) n-Butylbenzene	13.621	91	57429	1.850	ug/l #	73
95) Naphthalene	15.145	128	191440	12.954	ug/l	99

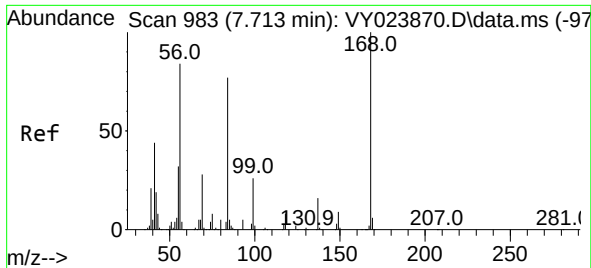
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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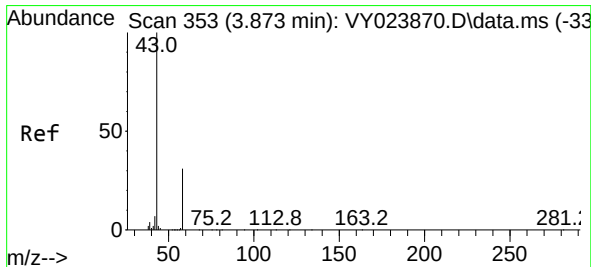
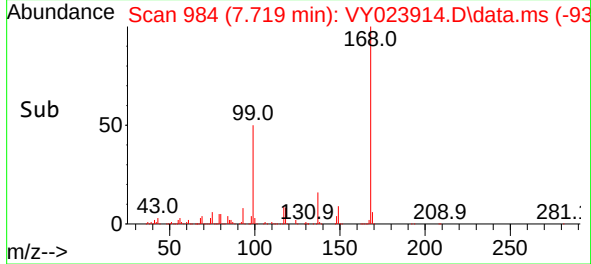
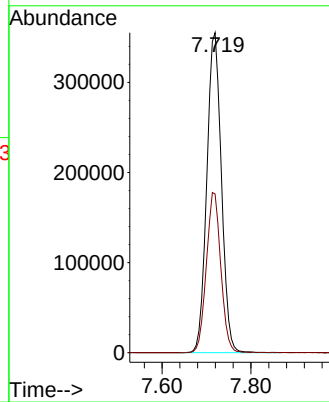
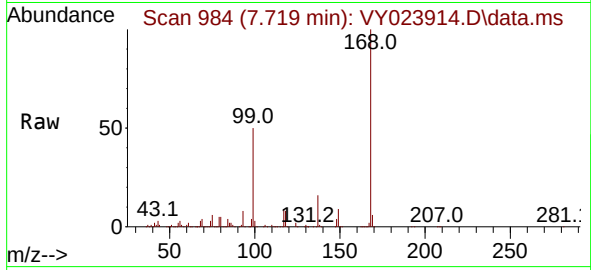




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

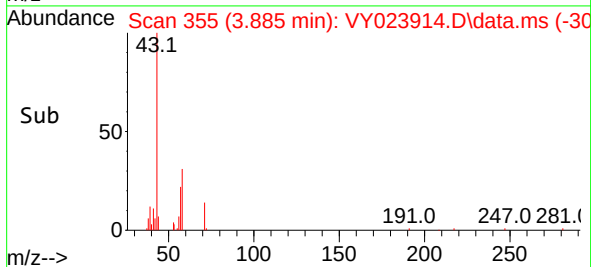
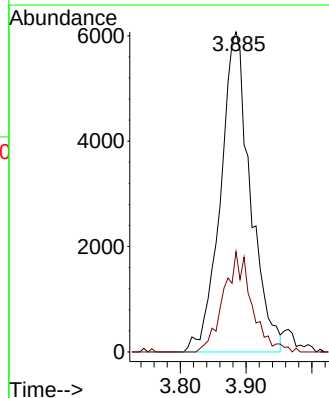
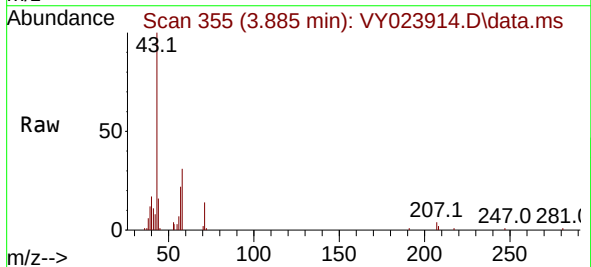
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

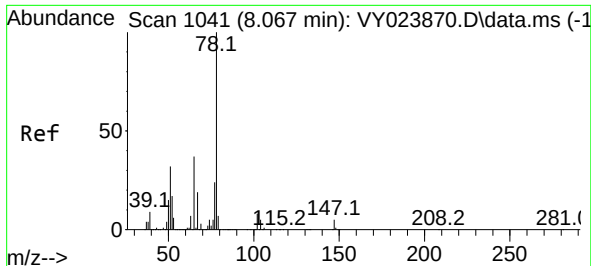
Tgt Ion:168 Resp: 812923
Ion Ratio Lower Upper
168 100
99 49.6 42.5 63.7



#16
Acetone
Concen: 7.895 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

Tgt Ion: 43 Resp: 19239
Ion Ratio Lower Upper
43 100
58 31.4 25.1 37.7





#33

1,2-Dichloroethane-d4

Concen: 42.998 ug/l

RT: 8.067 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY023914.D

Acq: 09 Dec 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

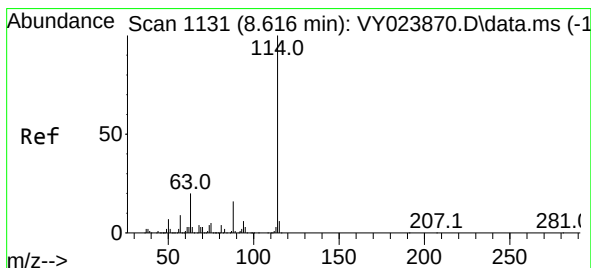
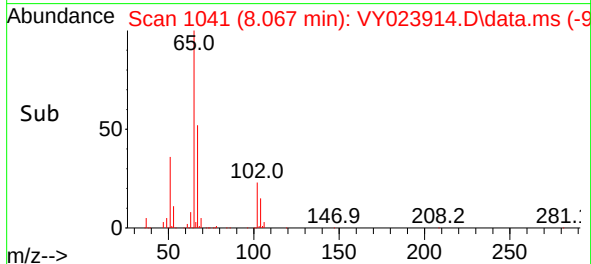
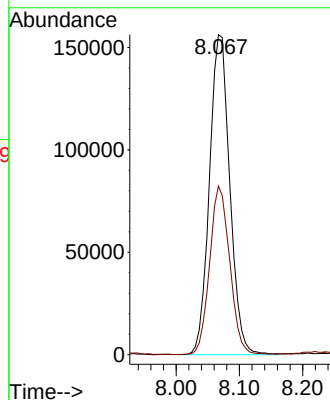
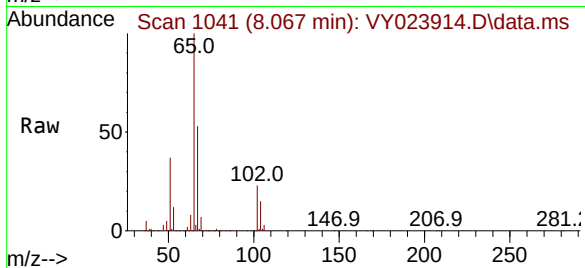
SW-8

Tgt Ion: 65 Resp: 349666

Ion Ratio Lower Upper

65 100

67 51.9 0.0 107.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY023914.D

Acq: 09 Dec 2025 17:27

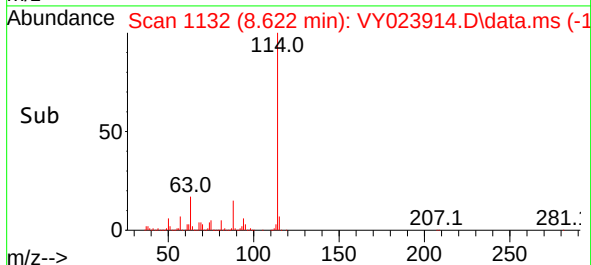
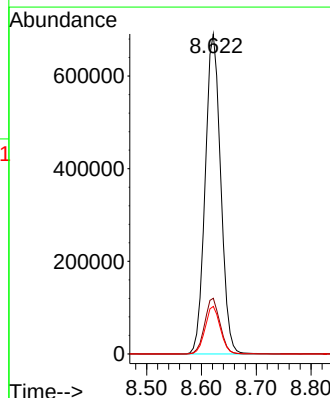
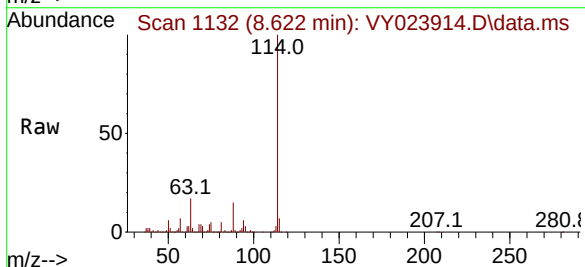
Tgt Ion:114 Resp: 1351229

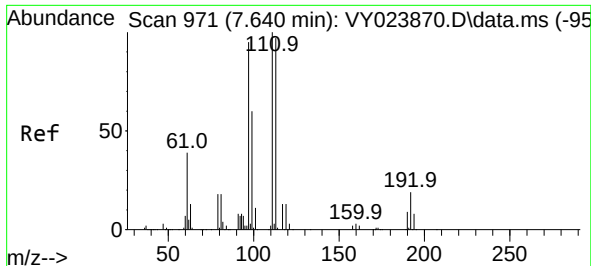
Ion Ratio Lower Upper

114 100

63 17.4 0.0 39.2

88 14.8 0.0 31.4

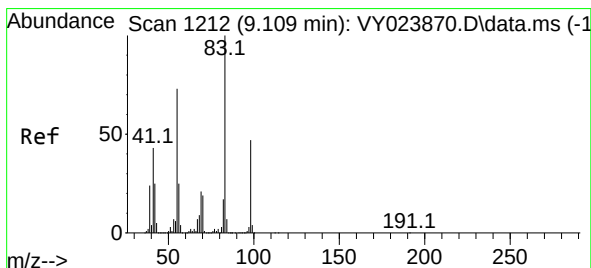
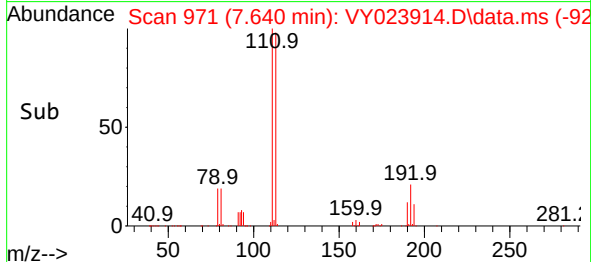
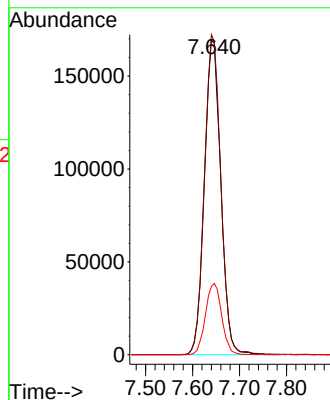
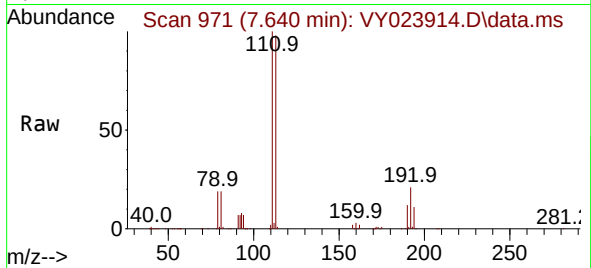




#35
Dibromofluoromethane
Concen: 47.356 ug/l
RT: 7.640 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

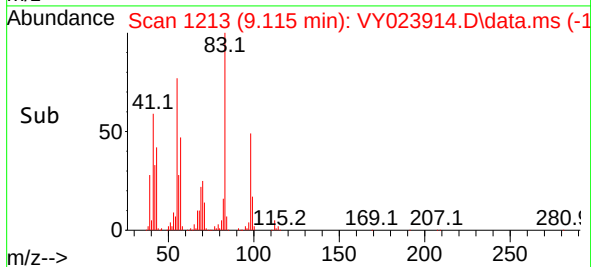
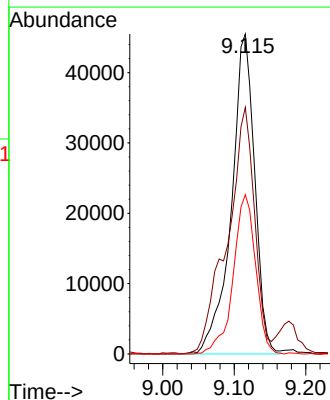
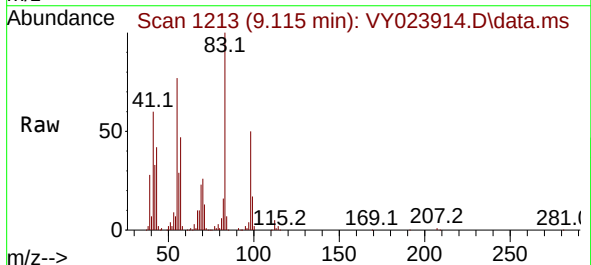
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

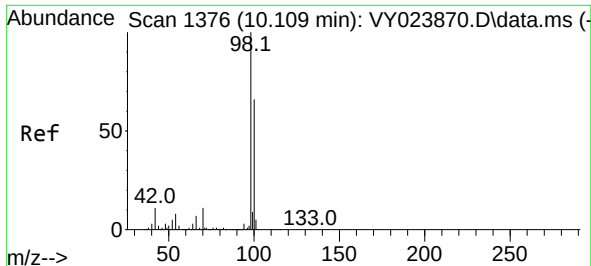
Tgt Ion:113 Resp: 410410
Ion Ratio Lower Upper
113 100
111 101.7 82.2 123.2
192 22.5 15.8 23.8



#39
Methylcyclohexane
Concen: 6.203 ug/l
RT: 9.115 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

Tgt Ion: 83 Resp: 103187
Ion Ratio Lower Upper
83 100
55 76.9 58.8 88.2
98 49.8 37.8 56.6

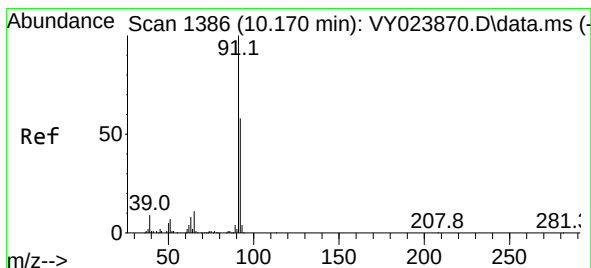
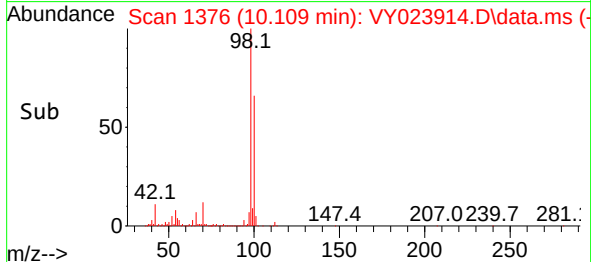
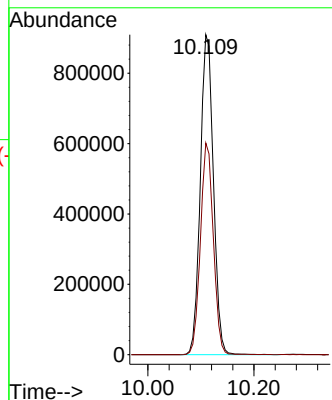
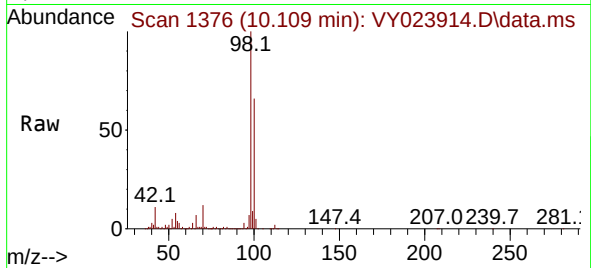




#50
Toluene-d8
Concen: 46.305 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

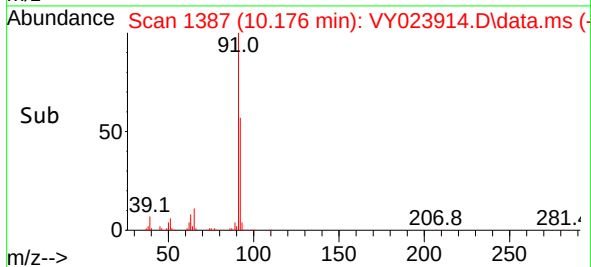
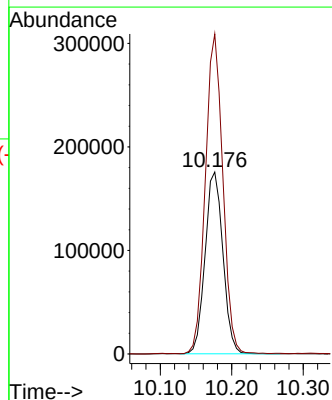
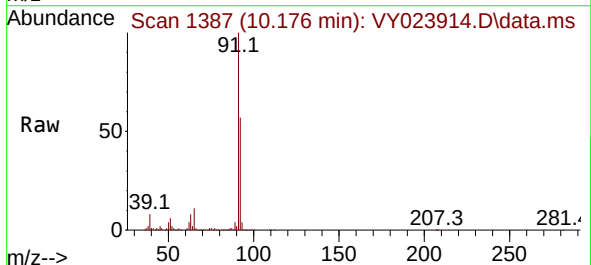
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

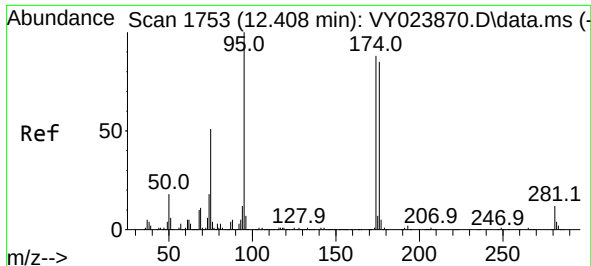
Tgt Ion: 98 Resp: 1561601
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7



#52
Toluene
Concen: 12.553 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

Tgt Ion: 92 Resp: 303632
Ion Ratio Lower Upper
92 100
91 172.1 137.3 205.9

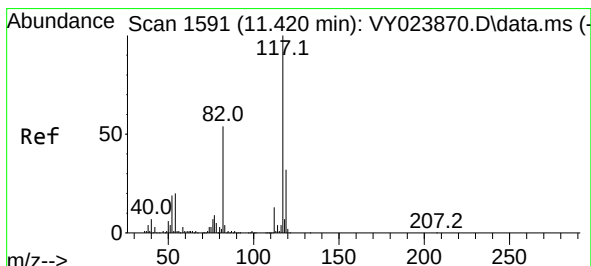
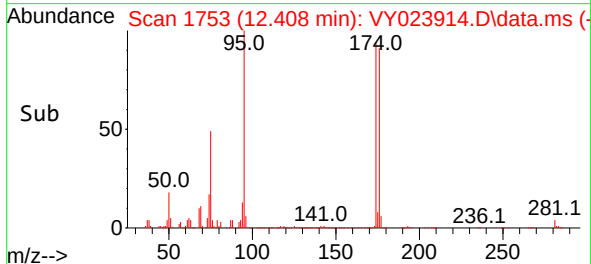
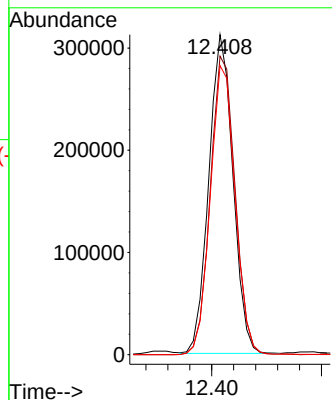
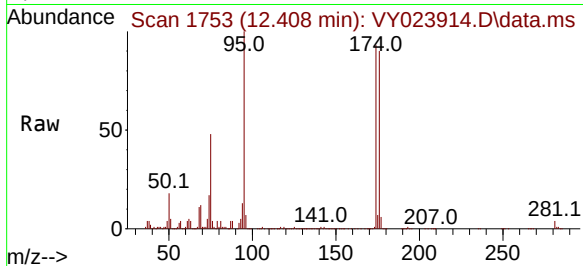




#62
4-Bromofluorobenzene
Concen: 41.434 ug/l
RT: 12.408 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

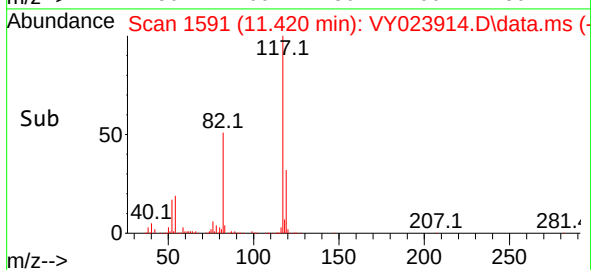
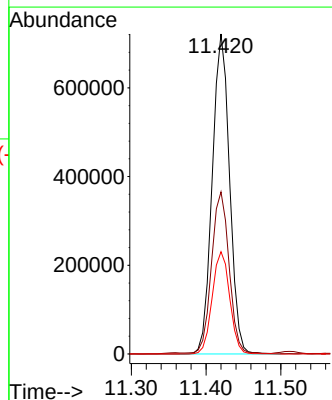
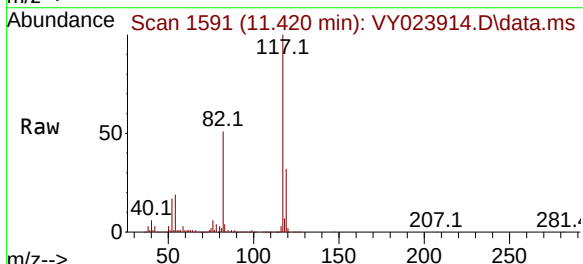
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

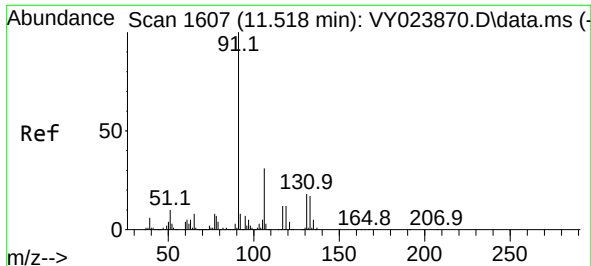
Tgt Ion: 95 Resp: 476603
Ion Ratio Lower Upper
95 100
174 96.4 0.0 169.6
176 93.3 0.0 164.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

Tgt Ion: 117 Resp: 1164671
Ion Ratio Lower Upper
117 100
82 50.3 43.1 64.7
119 31.9 26.0 39.0





#67

Ethyl Benzene

Concen: 12.224 ug/l

RT: 11.524 min Scan# 1608

Delta R.T. 0.006 min

Lab File: VY023914.D

Acq: 09 Dec 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

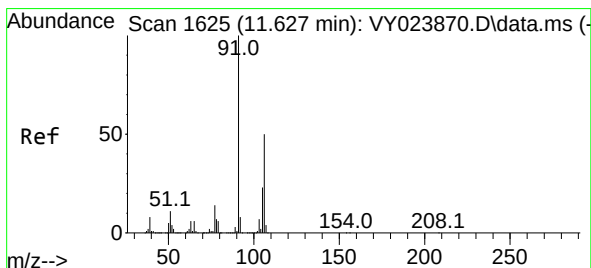
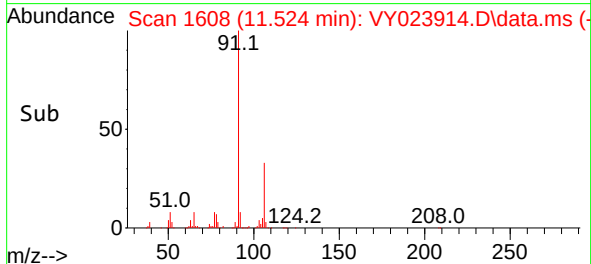
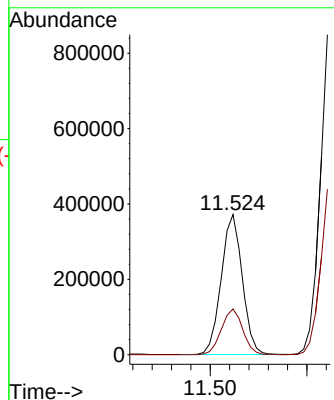
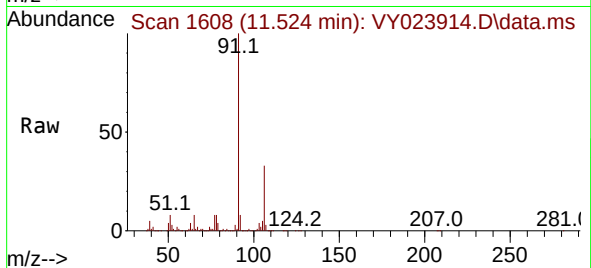
SW-8

Tgt Ion: 91 Resp: 561771

Ion Ratio Lower Upper

91 100

106 32.6 25.0 37.6



#68

m/p-Xylenes

Concen: 51.989 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.000 min

Lab File: VY023914.D

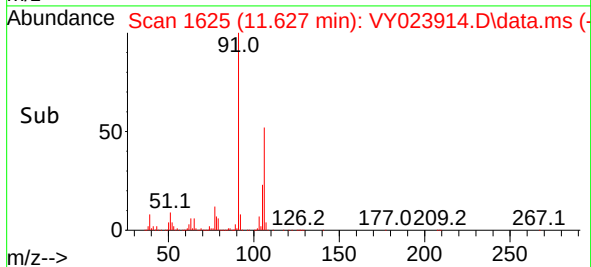
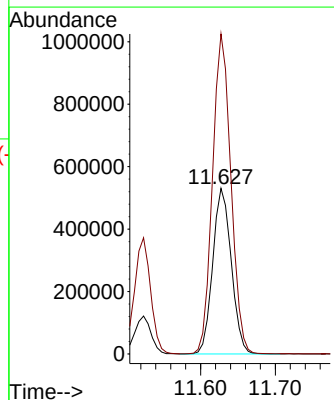
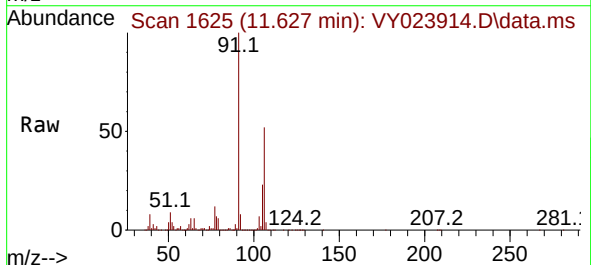
Acq: 09 Dec 2025 17:27

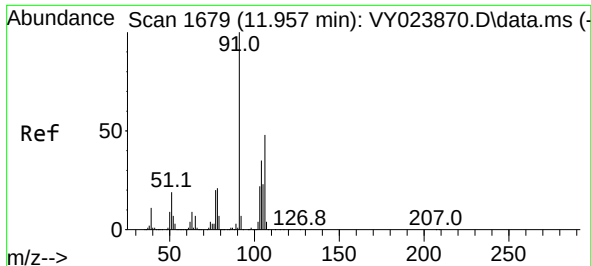
Tgt Ion:106 Resp: 913223

Ion Ratio Lower Upper

106 100

91 191.7 159.7 239.5

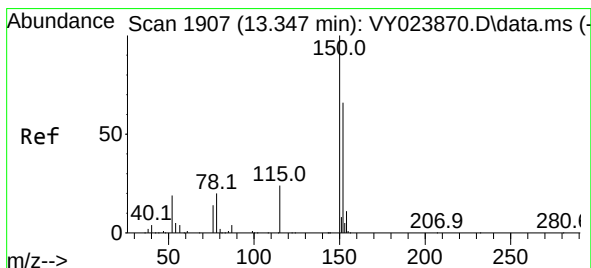
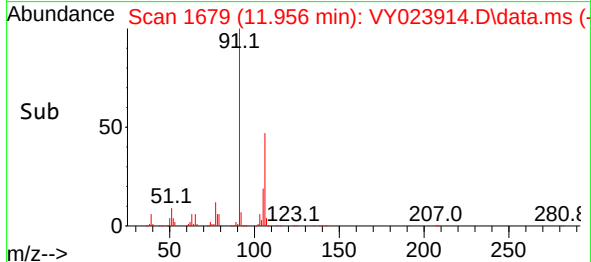
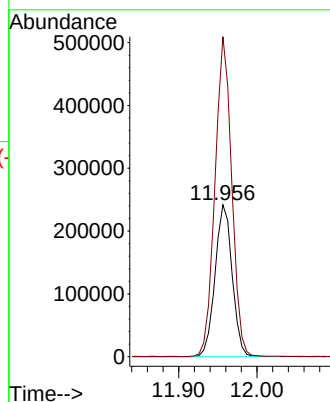
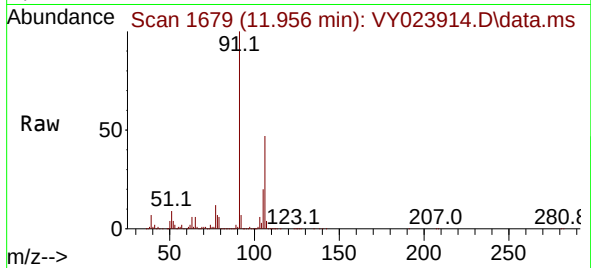




#69
o-Xylene
Concen: 22.348 ug/l
RT: 11.956 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

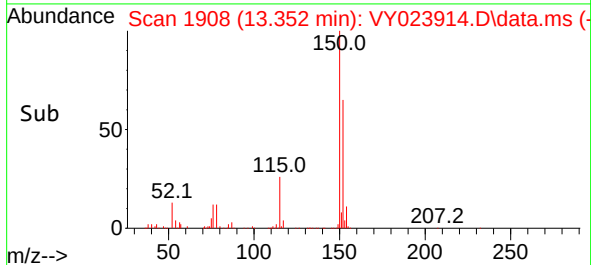
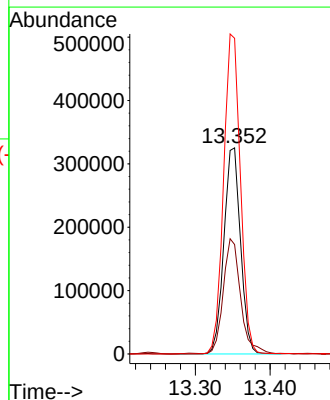
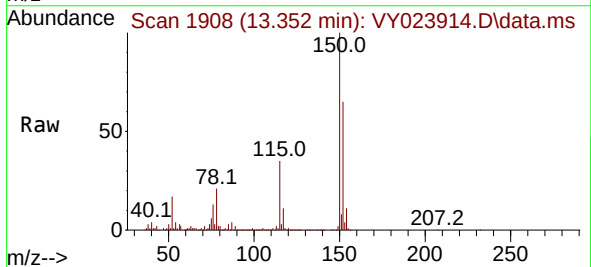
Instrument :
MSVOA_Y
ClientSampleId :
SW-8

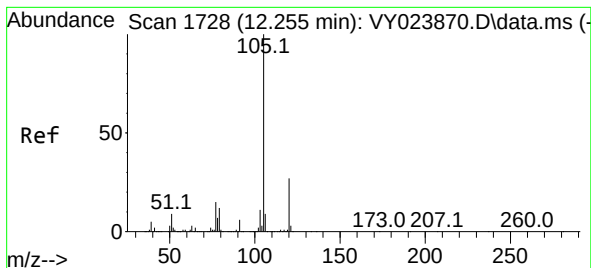
Tgt Ion:106 Resp: 367162
Ion Ratio Lower Upper
106 100
91 205.6 104.4 313.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY023914.D
Acq: 09 Dec 2025 17:27

Tgt Ion:152 Resp: 504439
Ion Ratio Lower Upper
152 100
115 57.7 28.8 86.4
150 156.5 0.0 352.2





#73

Isopropylbenzene

Concen: 2.171 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. -0.000 min

Lab File: VY023914.D

Acq: 09 Dec 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

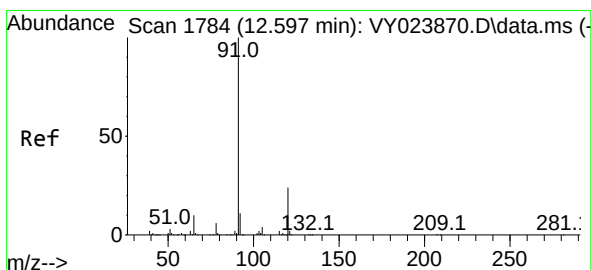
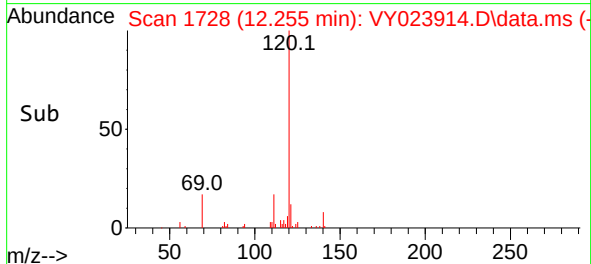
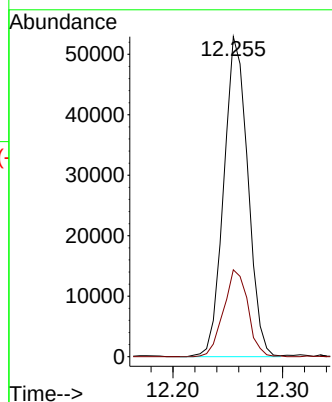
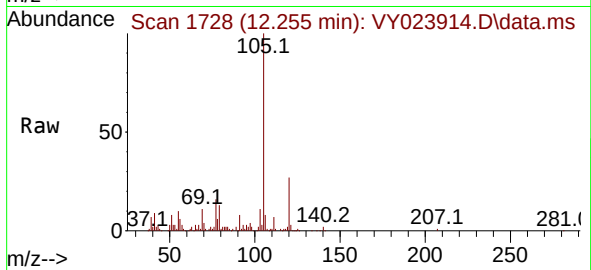
SW-8

Tgt Ion:105 Resp: 80668

Ion Ratio Lower Upper

105 100

120 27.5 13.4 40.1



#78

n-propylbenzene

Concen: 7.833 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VY023914.D

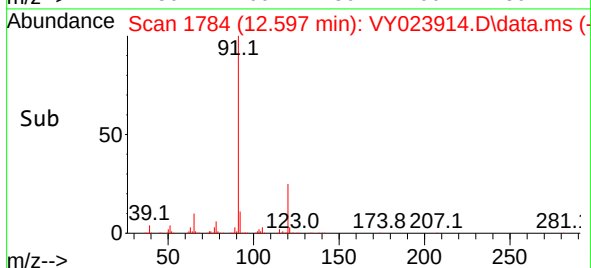
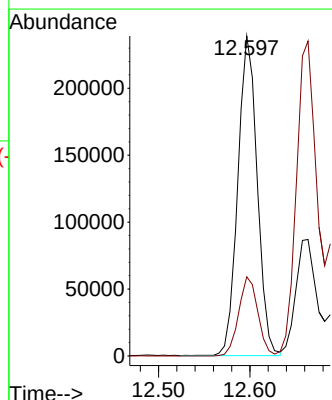
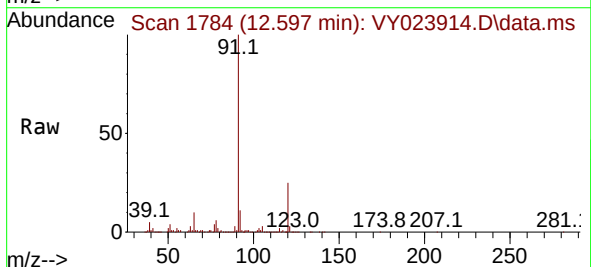
Acq: 09 Dec 2025 17:27

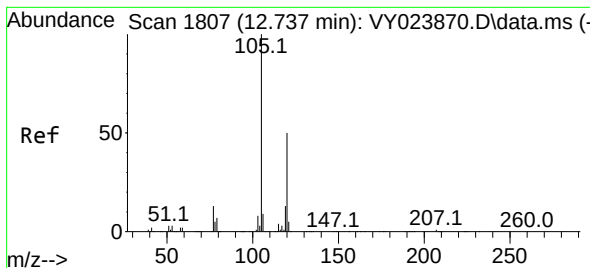
Tgt Ion: 91 Resp: 351293

Ion Ratio Lower Upper

91 100

120 24.4 11.5 34.5





#80

1,3,5-Trimethylbenzene

Concen: 14.728 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VY023914.D

Acq: 09 Dec 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

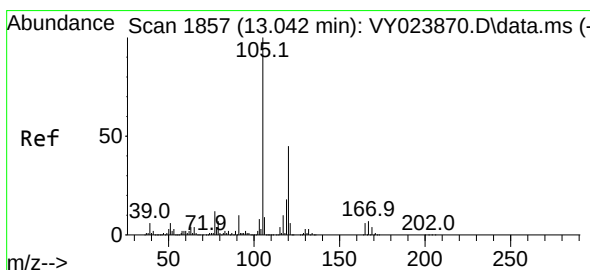
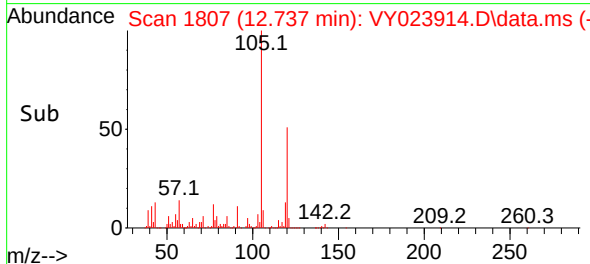
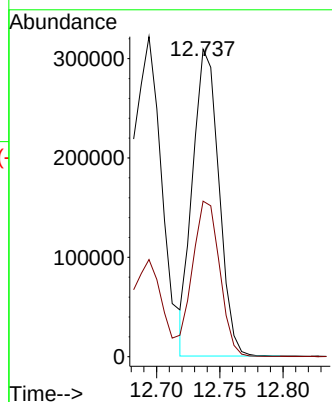
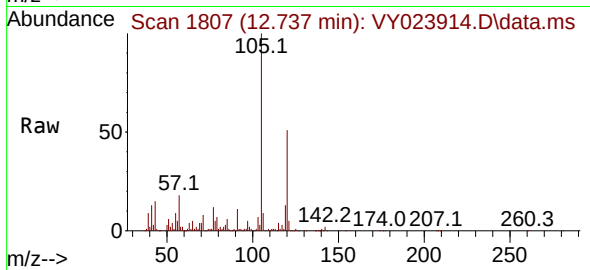
SW-8

Tgt Ion:105 Resp: 444770

Ion Ratio Lower Upper

105 100

120 53.7 24.9 74.6



#84

1,2,4-Trimethylbenzene

Concen: 51.619 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.006 min

Lab File: VY023914.D

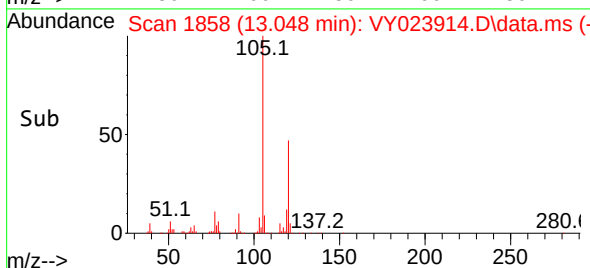
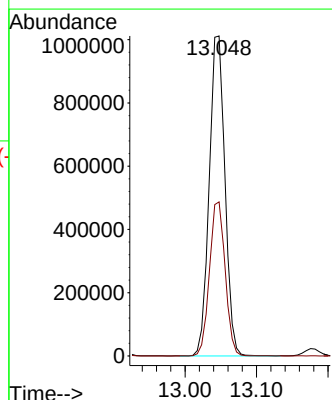
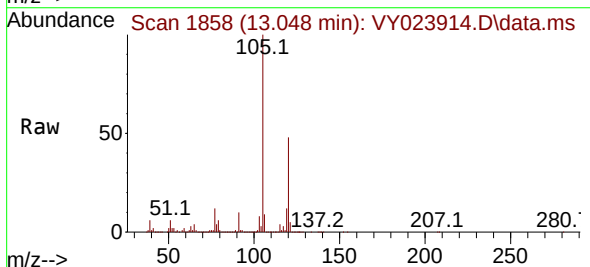
Acq: 09 Dec 2025 17:27

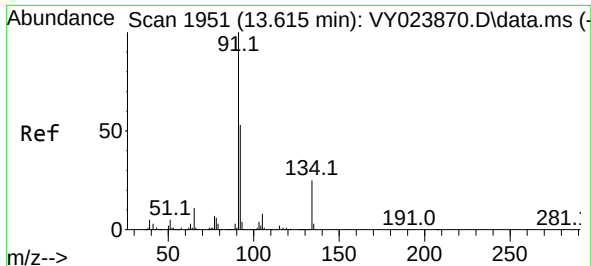
Tgt Ion:105 Resp: 1544268

Ion Ratio Lower Upper

105 100

120 48.1 22.4 67.3





#89

n-Butylbenzene

Concen: 1.850 ug/l

RT: 13.621 min Scan# 1951

Delta R.T. 0.006 min

Lab File: VY023914.D

Acq: 09 Dec 2025 17:27

Instrument :

MSVOA_Y

ClientSampleId :

SW-8

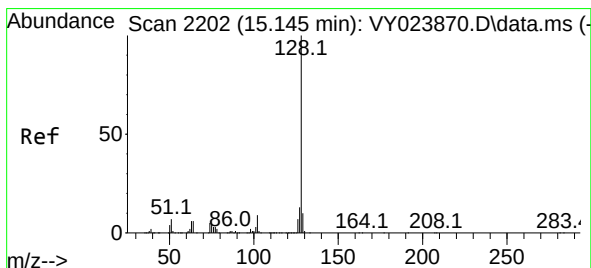
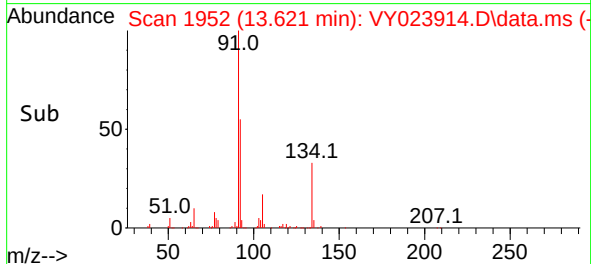
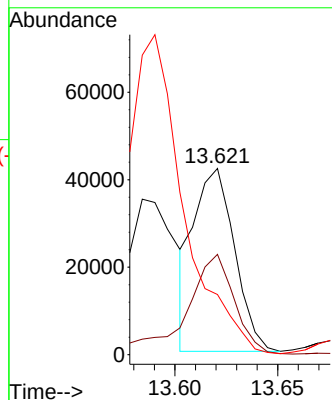
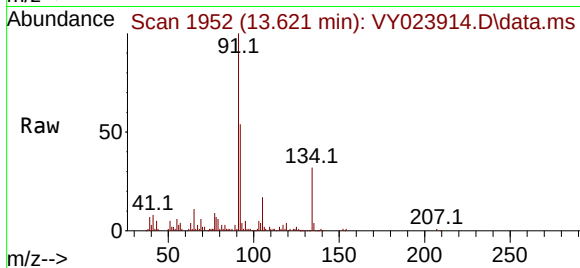
Tgt Ion: 91 Resp: 57429

Ion Ratio Lower Upper

91 100

92 64.4 26.7 80.0

134 0.0 13.0 39.0#



#95

Naphthalene

Concen: 12.954 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. -0.000 min

Lab File: VY023914.D

Acq: 09 Dec 2025 17:27

Tgt Ion:128 Resp: 191440

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

129 11.6 8.7 13.1

