

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023915.D
 Acq On : 09 Dec 2025 17:50
 Operator : SY/MD
 Sample : Q3809-12
 Misc : 2.22g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-9

Quant Time: Dec 10 02:32:25 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

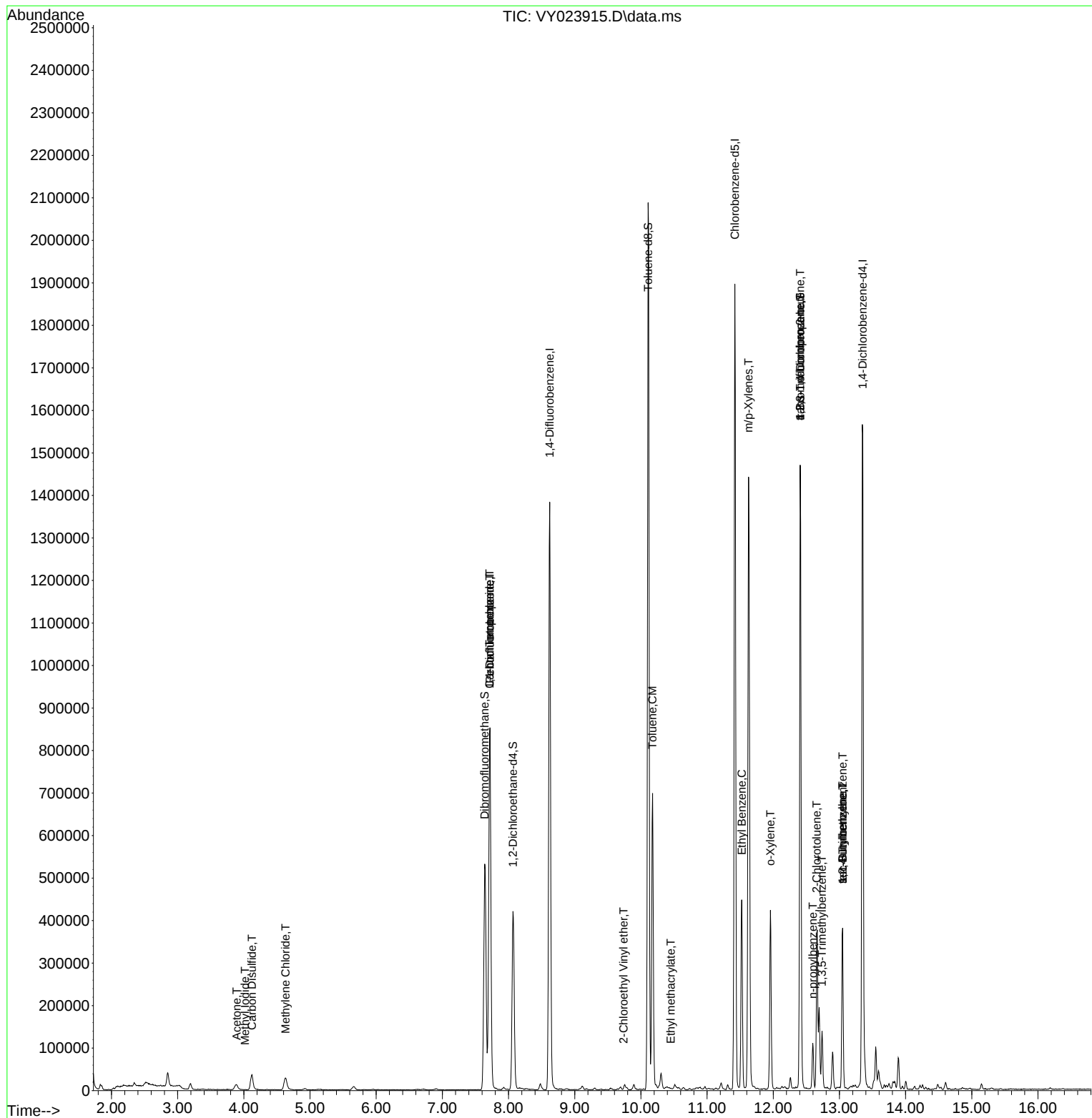
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.719	168	717977	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1236122	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1055575	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	438429	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	335358	46.692	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	93.380%
35) Dibromofluoromethane	7.640	113	384860	48.543	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.080%
50) Toluene-d8	10.109	98	1396561	45.267	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.540%
62) 4-Bromofluorobenzene	12.407	95	421836	40.088	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	80.180%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.019	142	427	2.490	ug/l #	76
11) Tert butyl alcohol	4.860	59	84	Below Cal	#	74
16) Acetone	3.891	43	20995	9.755	ug/l	90
17) Carbon Disulfide	4.122	76	72837	3.564	ug/l	98
20) Methylene Chloride	4.628	84	23089	1.153	ug/l	88
36) 1,1-Dichloropropene	7.713	75	46167	3.949	ug/l #	51
38) Carbon Tetrachloride	7.713	117	61859	4.794	ug/l #	16
52) Toluene	10.176	92	293683	13.272	ug/l	100
56) Ethyl methacrylate	10.450	69	364	4.188	ug/l #	25
58) 2-Chloroethyl Vinyl ether	9.737	63	19	14.722	ug/l #	47
67) Ethyl Benzene	11.523	91	299817	7.198	ug/l	96
68) m/p-Xylenes	11.627	106	458367	28.792	ug/l	97
69) o-Xylene	11.956	106	117321	7.879	ug/l	96
76) 1,2,3-Trichloropropane	12.407	75	210152	48.350	ug/l #	100
78) n-propylbenzene	12.596	91	79189	2.032	ug/l	95
79) 2-Chlorotoluene	12.657	91	29086	1.314	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.737	105	59158	2.254	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.407	75	210152	115.803	ug/l #	14
83) tert-Butylbenzene	13.048	119	25844	1.092	ug/l #	70
84) 1,2,4-Trimethylbenzene	13.048	105	203061	7.809	ug/l	96
85) sec-Butylbenzene	13.048	105	203061	5.769	ug/l #	56

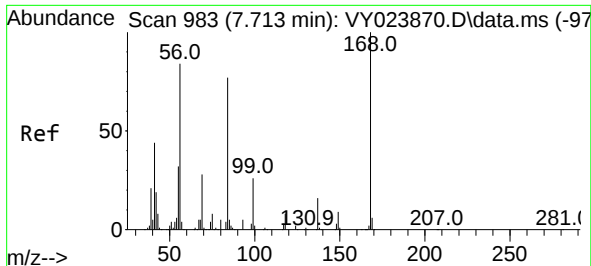
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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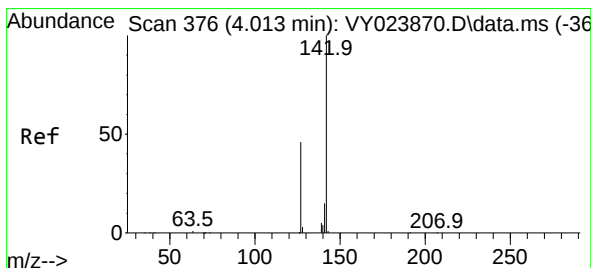
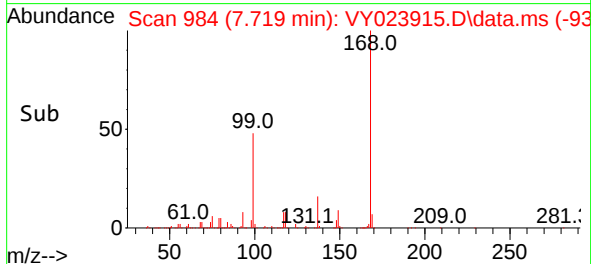
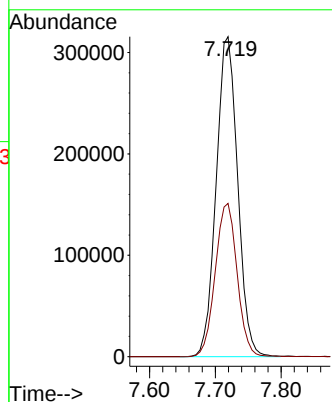
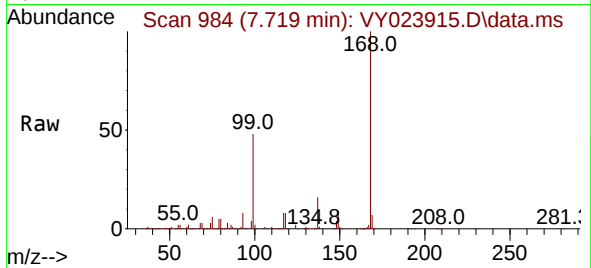




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

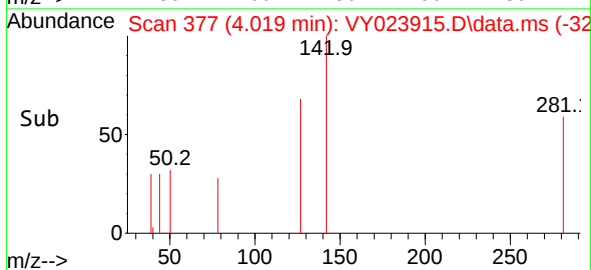
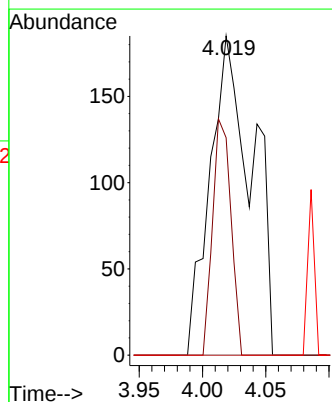
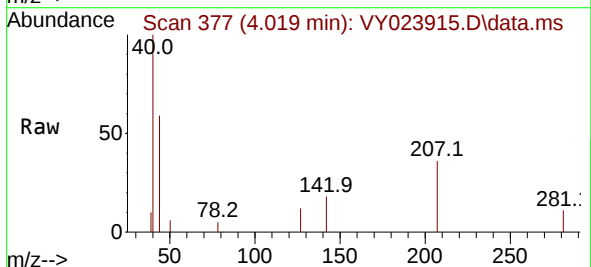
Instrument :
MSVOA_Y
ClientSampleId :
SW-9

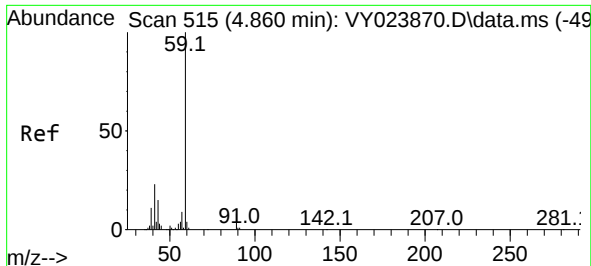
Tgt Ion:168 Resp: 717977
Ion Ratio Lower Upper
168 100
99 47.9 42.5 63.7



#10
Methyl Iodide
Concen: 2.490 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.006 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Tgt Ion:142 Resp: 427
Ion Ratio Lower Upper
142 100
127 32.3 36.1 54.1#
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.860 min Scan# 515

Delta R.T. -0.000 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

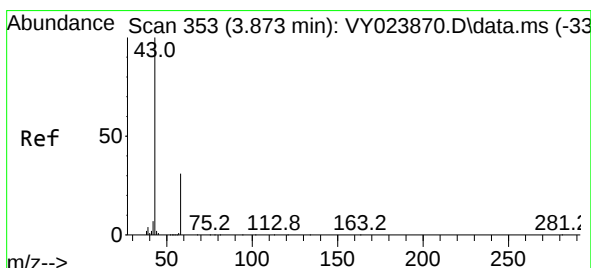
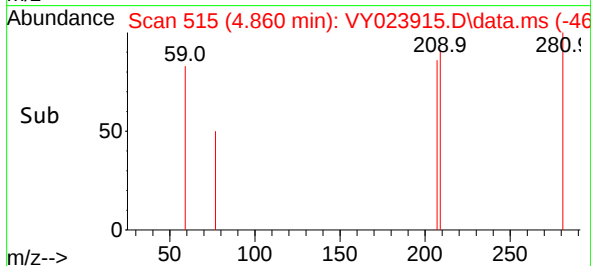
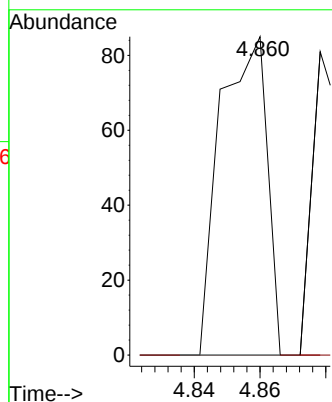
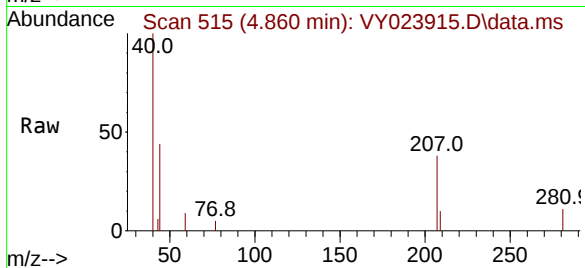
SW-9

Tgt Ion: 59 Resp: 84

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#16

Acetone

Concen: 9.755 ug/l

RT: 3.891 min Scan# 356

Delta R.T. 0.018 min

Lab File: VY023915.D

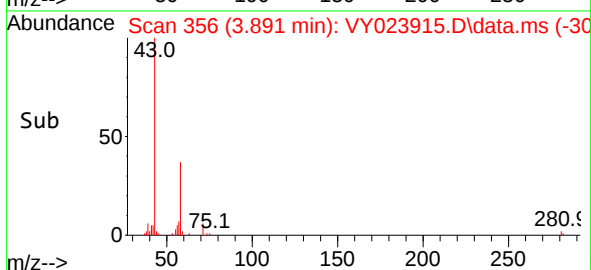
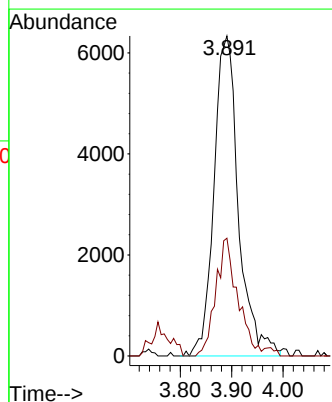
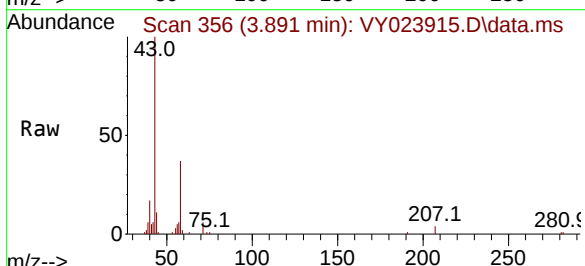
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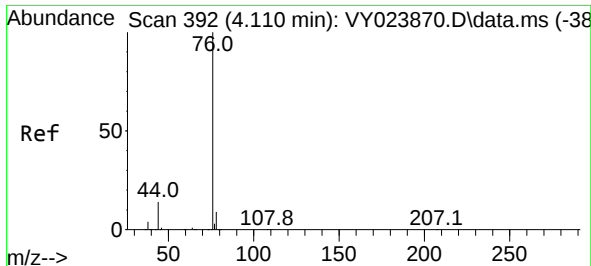
Tgt Ion: 43 Resp: 20995

Ion Ratio Lower Upper

43 100

58 36.8 25.1 37.7

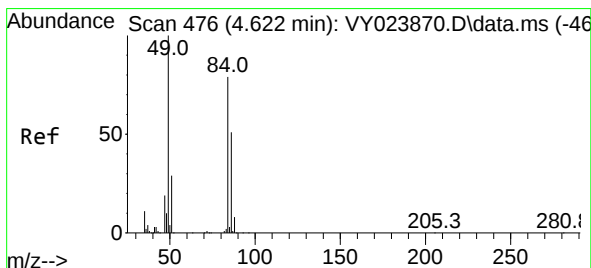
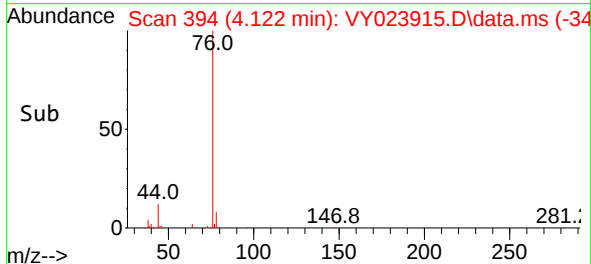
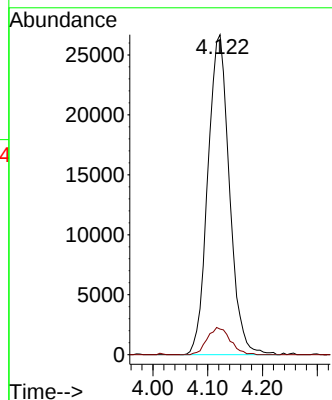
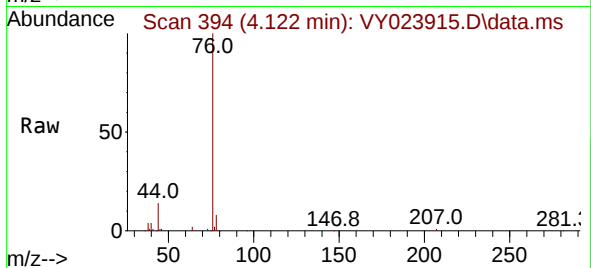




#17
Carbon Disulfide
Concen: 3.564 ug/l
RT: 4.122 min Scan# 394
Delta R.T. 0.012 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

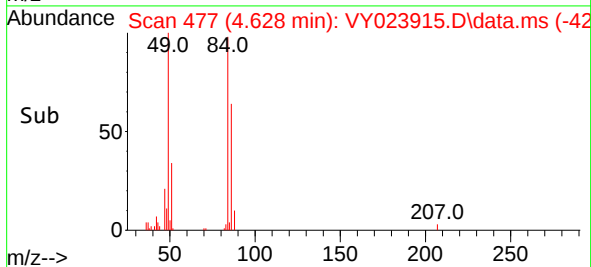
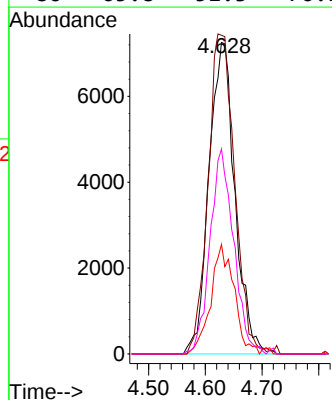
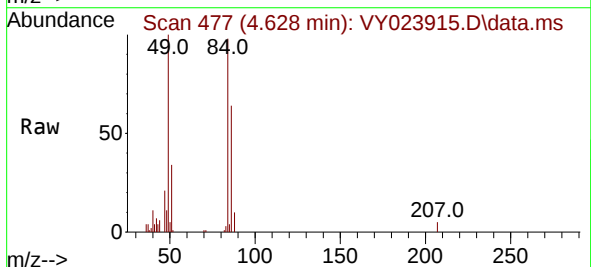
Instrument :
MSVOA_Y
ClientSampleId :
SW-9

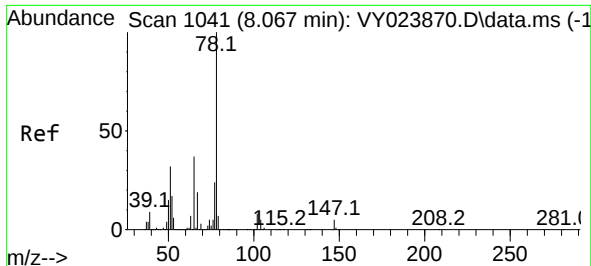
Tgt Ion: 76 Resp: 72837
Ion Ratio Lower Upper
76 100
78 8.0 7.1 10.7



#20
Methylene Chloride
Concen: 1.153 ug/l
RT: 4.628 min Scan# 477
Delta R.T. 0.006 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Tgt Ion: 84 Resp: 23089
Ion Ratio Lower Upper
84 100
49 102.3 100.6 151.0
51 35.2 29.0 43.6
86 65.8 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 46.692 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

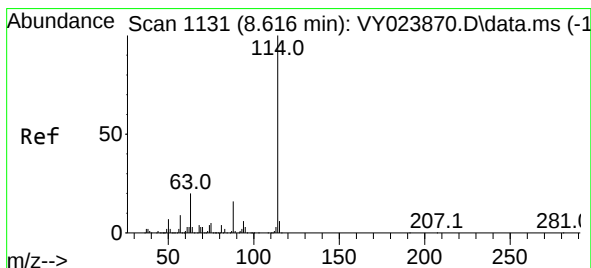
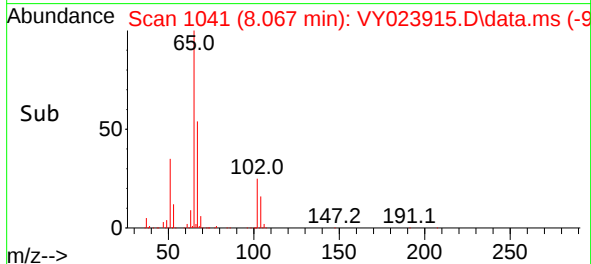
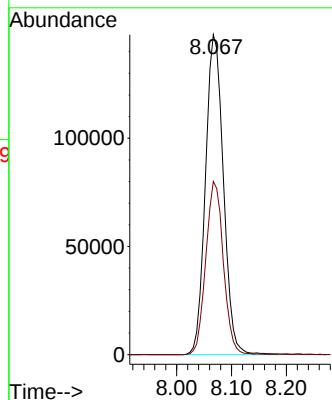
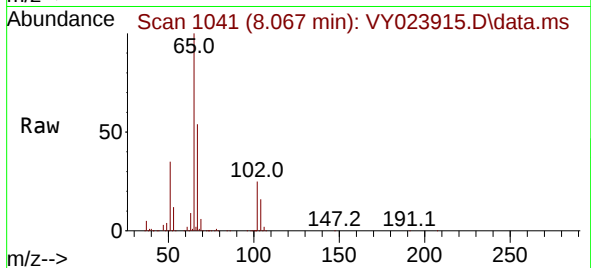
SW-9

Tgt Ion: 65 Resp: 335358

Ion Ratio Lower Upper

65 100

67 53.0 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: VY023915.D

Acq: 09 Dec 2025 17:50

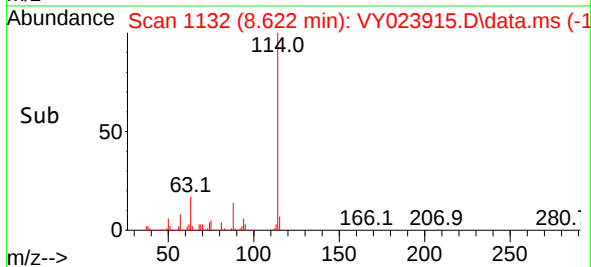
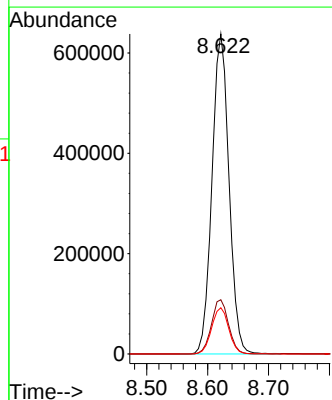
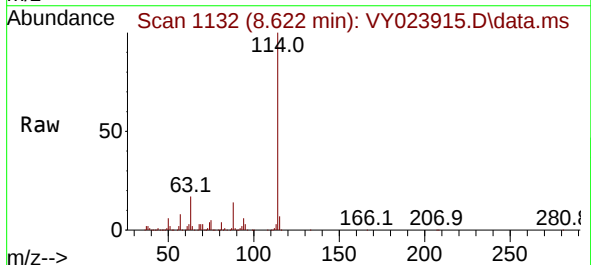
Tgt Ion:114 Resp: 1236122

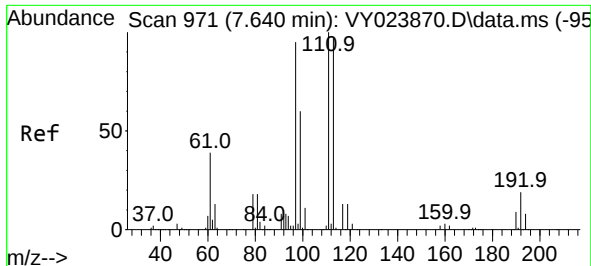
Ion Ratio Lower Upper

114 100

63 16.9 0.0 39.2

88 14.4 0.0 31.4

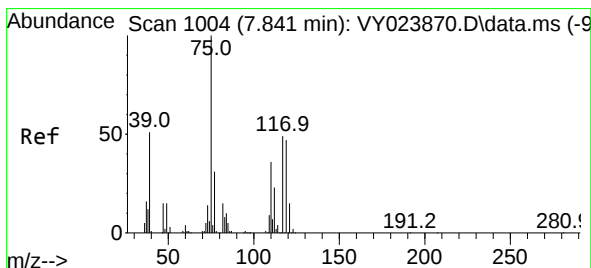
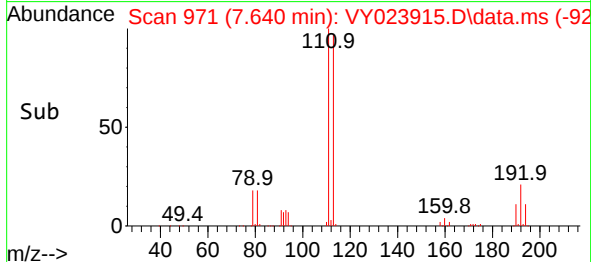
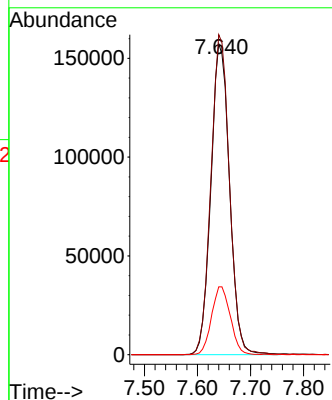
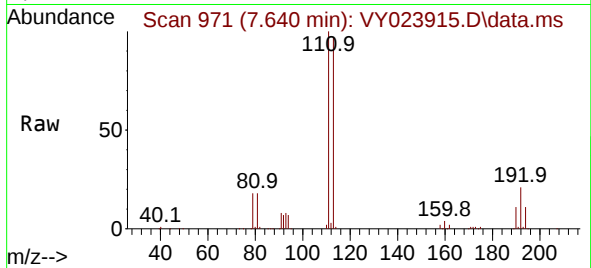




#35
Dibromofluoromethane
Concen: 48.543 ug/l
RT: 7.640 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

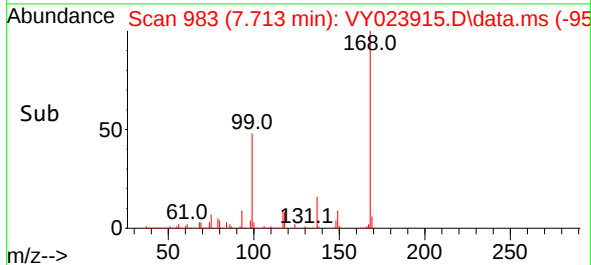
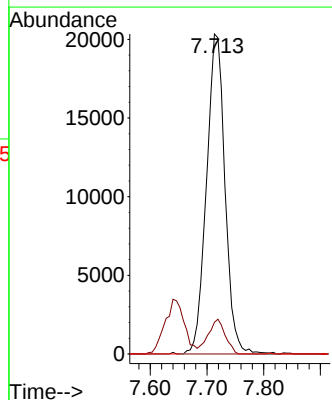
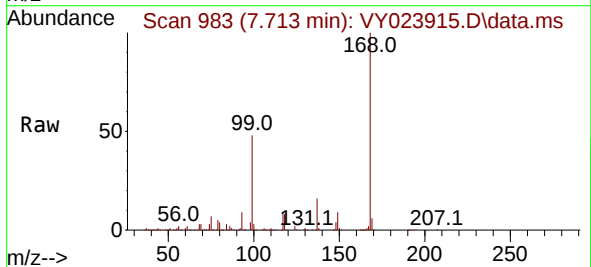
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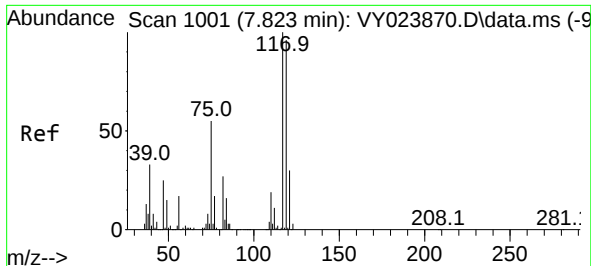
Tgt Ion:113 Resp: 384860
Ion Ratio Lower Upper
113 100
111 102.2 82.2 123.2
192 22.0 15.8 23.8



#36
1,1-Dichloropropene
Concen: 3.949 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.128 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Tgt Ion: 75 Resp: 46167
Ion Ratio Lower Upper
75 100
110 10.0 17.6 52.9#
77 0.0 24.6 37.0#

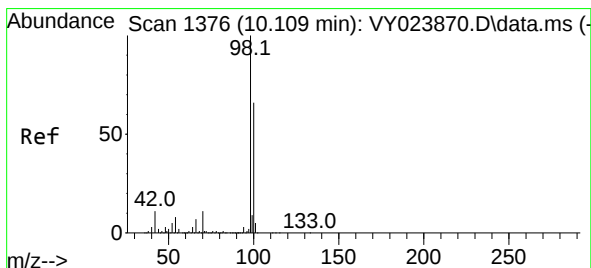
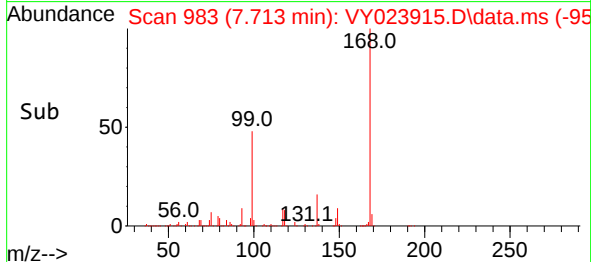
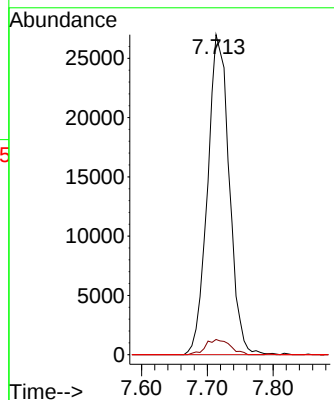
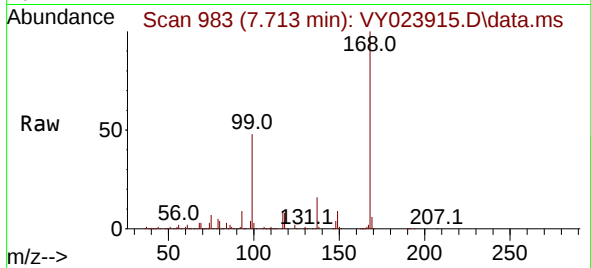




#38
Carbon Tetrachloride
Concen: 4.794 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

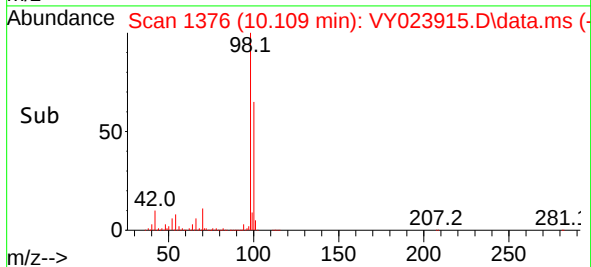
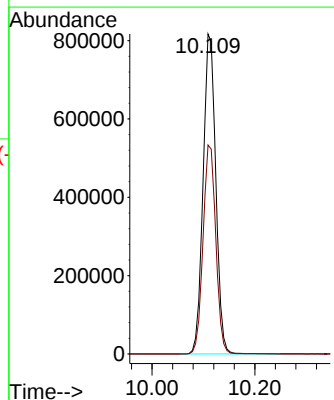
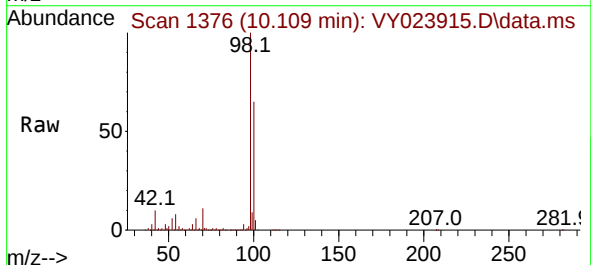
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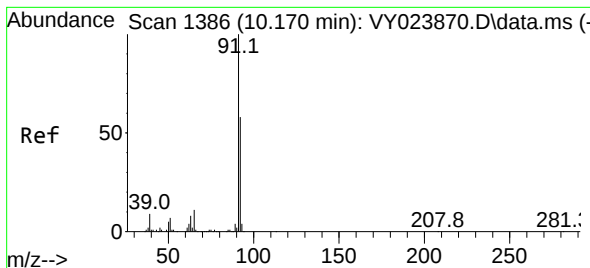
Tgt Ion:117 Resp: 61859
Ion Ratio Lower Upper
117 100
119 4.8 77.0 115.6#
121 0.0 23.9 35.9#



#50
Toluene-d8
Concen: 45.267 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Tgt Ion: 98 Resp: 1396561
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7





#52

Toluene

Concen: 13.272 ug/l

RT: 10.176 min Scan# 1387

Delta R.T. 0.006 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

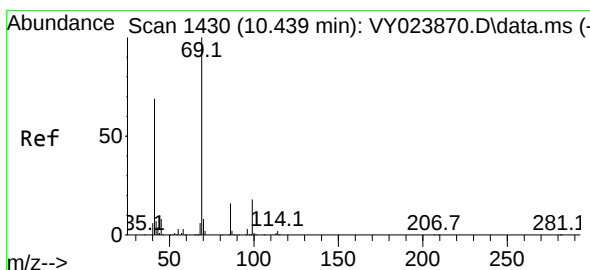
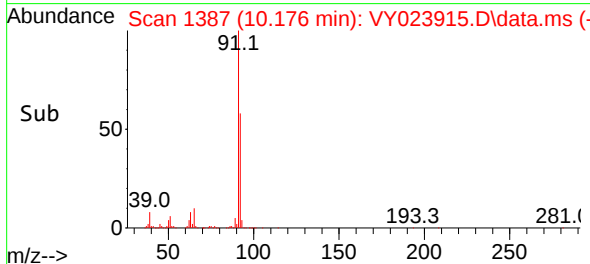
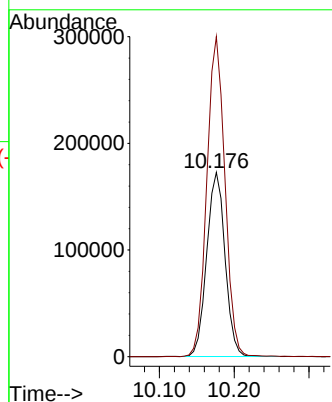
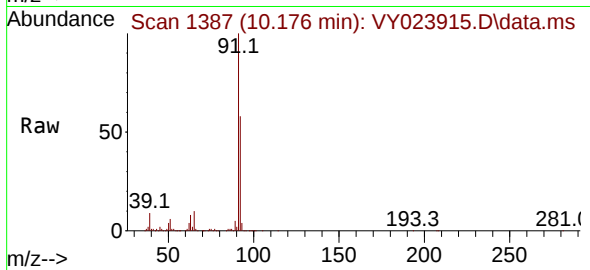
SW-9

Tgt Ion: 92 Resp: 293683

Ion Ratio Lower Upper

92 100

91 172.0 137.3 205.9



#56

Ethyl methacrylate

Concen: 4.188 ug/l

RT: 10.450 min Scan# 1432

Delta R.T. 0.012 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

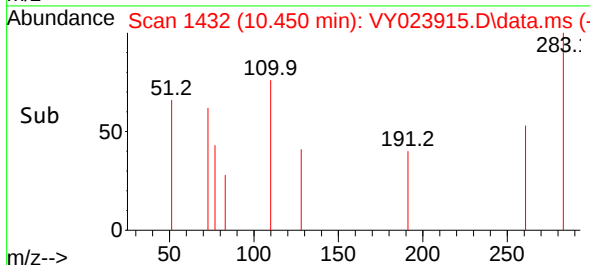
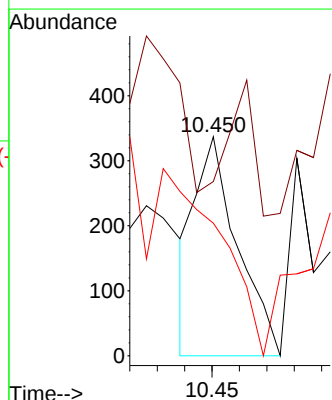
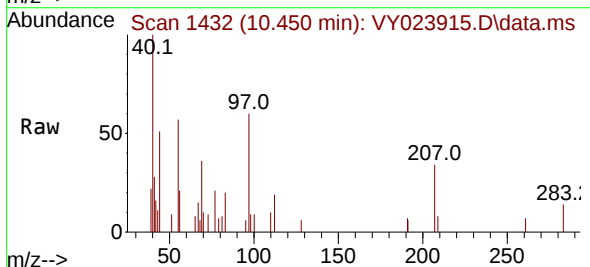
Tgt Ion: 69 Resp: 364

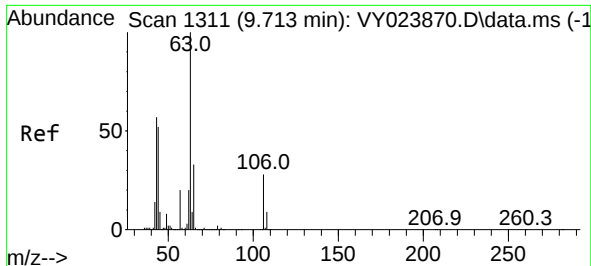
Ion Ratio Lower Upper

69 100

41 0.0 52.5 78.7#

39 0.0 27.1 40.7#

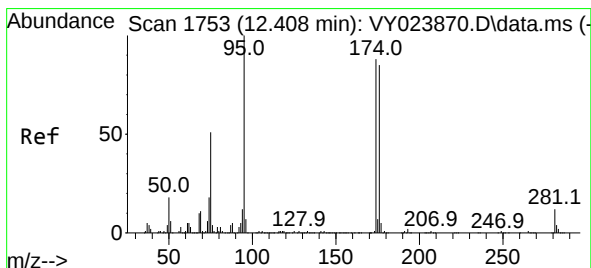
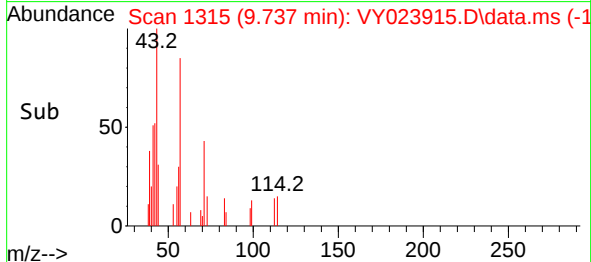
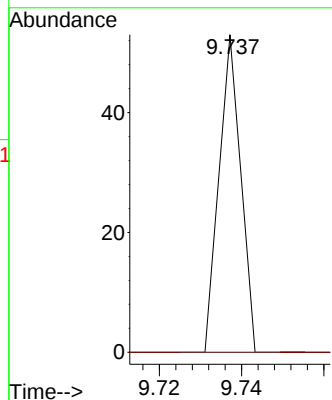
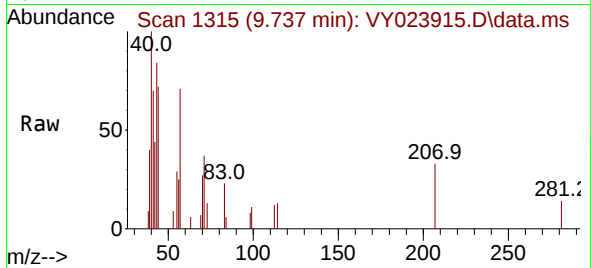




#58
2-Chloroethyl Vinyl ether
Concen: 14.722 ug/l
RT: 9.737 min Scan# 11
Delta R.T. 0.024 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

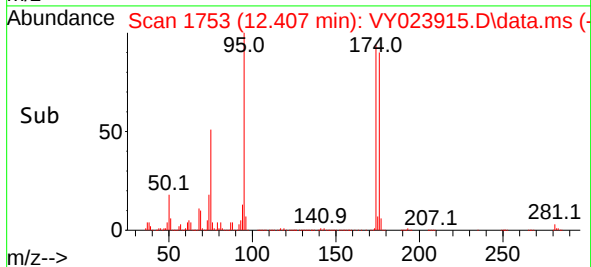
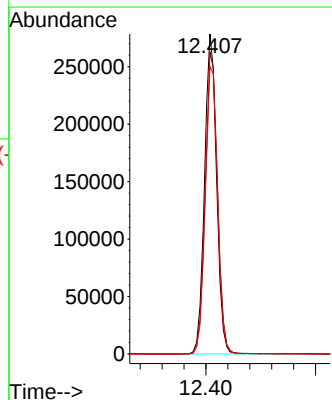
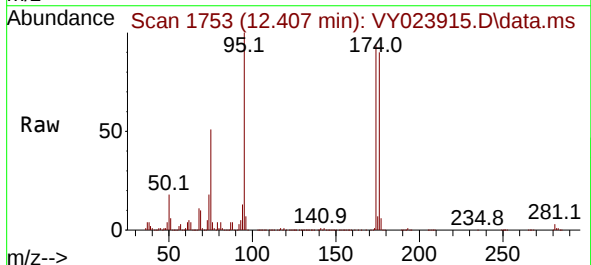
Instrument :
MSVOA_Y
ClientSampleId :
SW-9

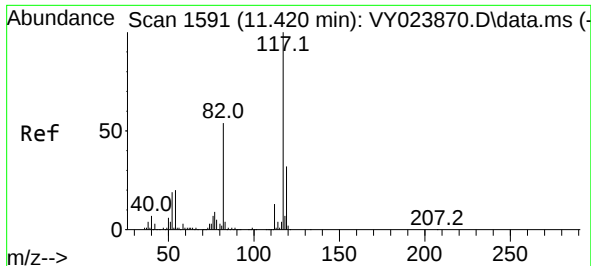
Tgt Ion: 63 Resp: 19
Ion Ratio Lower Upper
63 100
106 0.0 22.5 33.7#



#62
4-Bromofluorobenzene
Concen: 40.088 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Tgt Ion: 95 Resp: 421836
Ion Ratio Lower Upper
95 100
174 95.8 0.0 169.6
176 92.6 0.0 164.4

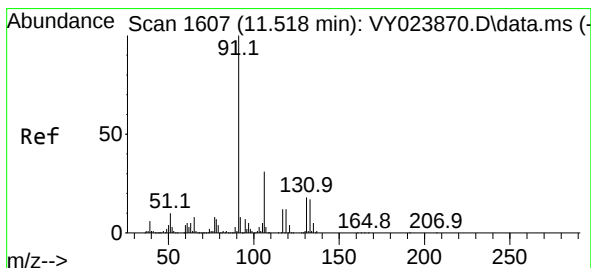
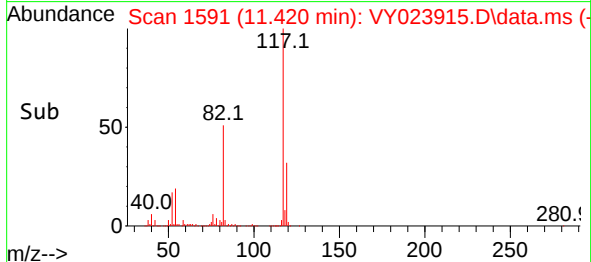
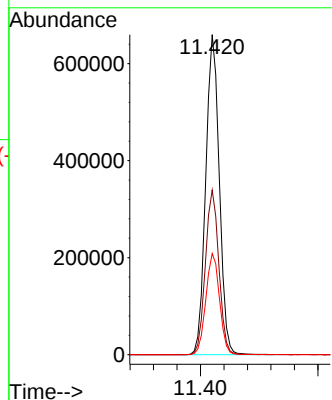
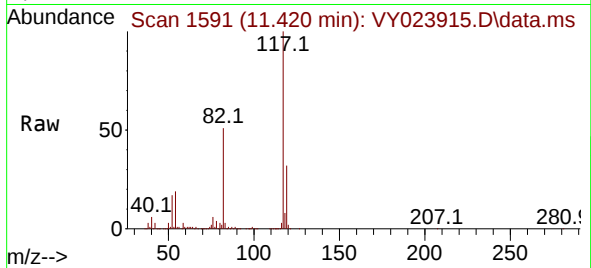




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

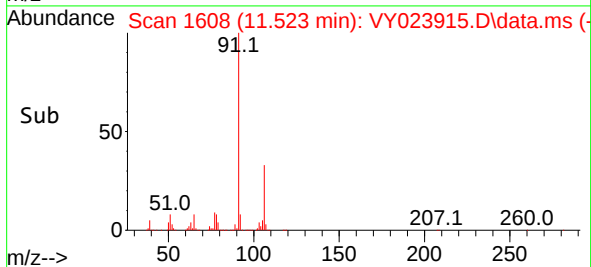
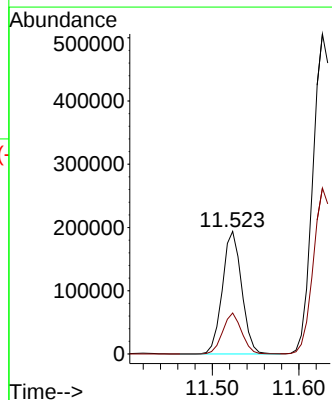
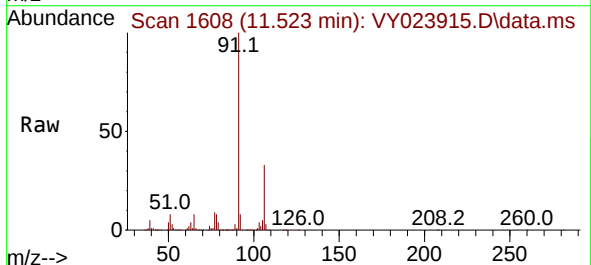
Instrument :
MSVOA_Y
ClientSampleId :
SW-9

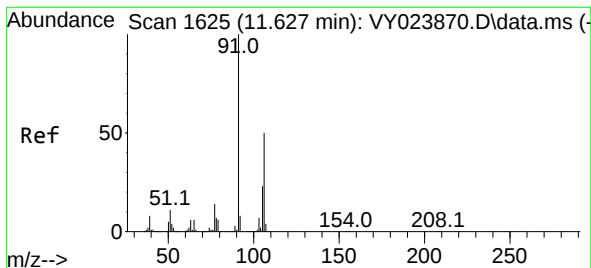
Tgt Ion:117 Resp: 1055575
Ion Ratio Lower Upper
117 100
82 51.4 43.1 64.7
119 31.6 26.0 39.0



#67
Ethyl Benzene
Concen: 7.198 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Tgt Ion: 91 Resp: 299817
Ion Ratio Lower Upper
91 100
106 33.5 25.0 37.6

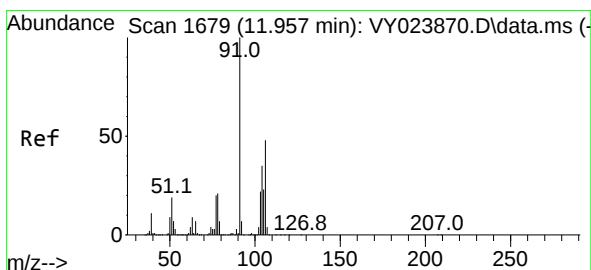
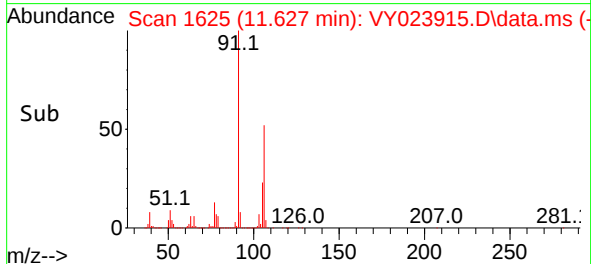
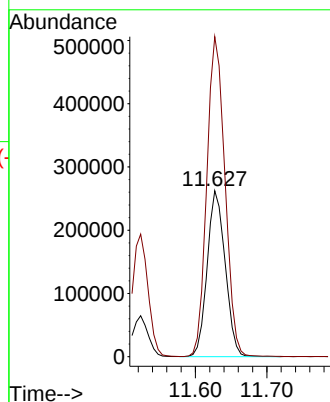
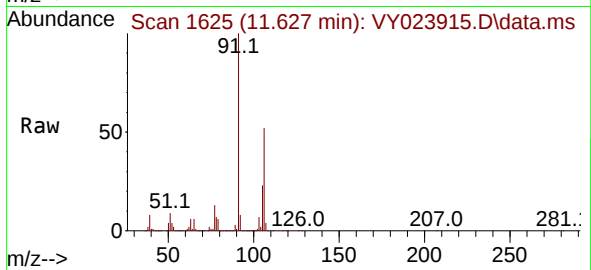




#68
m/p-Xylenes
Concen: 28.792 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

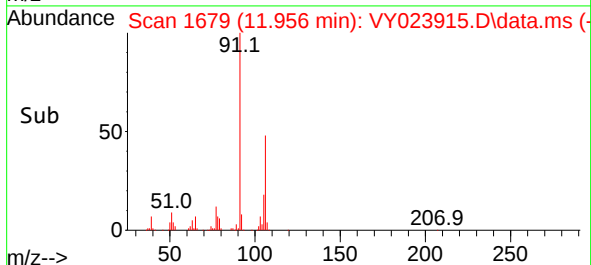
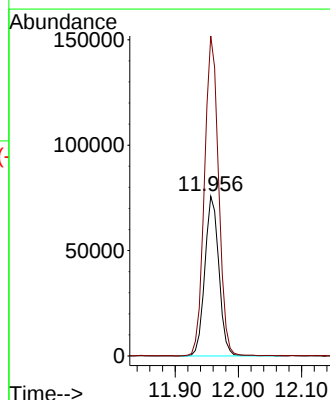
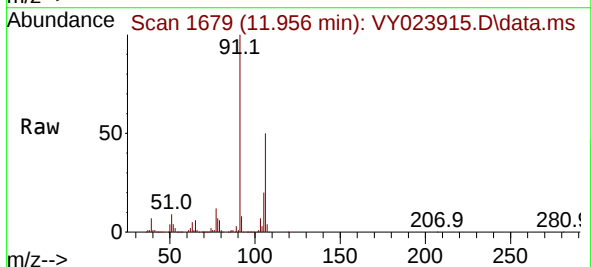
Instrument :
MSVOA_Y
ClientSampleId :
SW-9

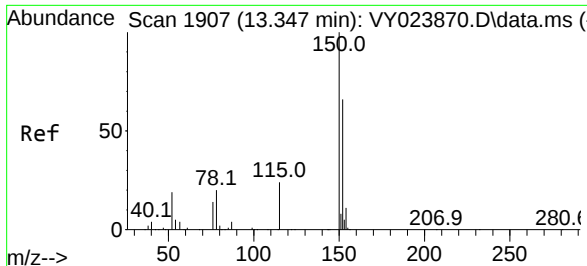
Tgt Ion:106 Resp: 458367
Ion Ratio Lower Upper
106 100
91 194.5 159.7 239.5



#69
o-Xylene
Concen: 7.879 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. -0.000 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Tgt Ion:106 Resp: 117321
Ion Ratio Lower Upper
106 100
91 202.2 104.4 313.1

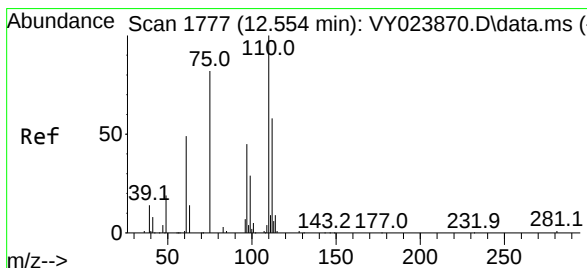
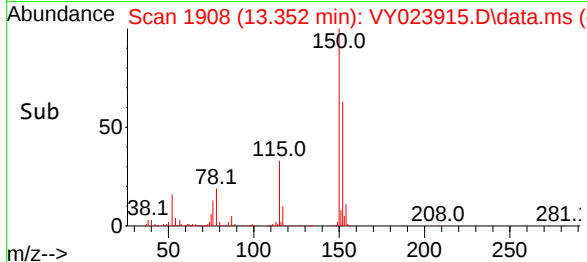
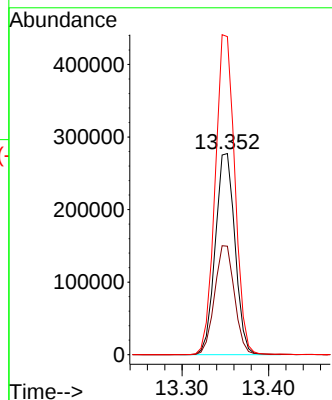
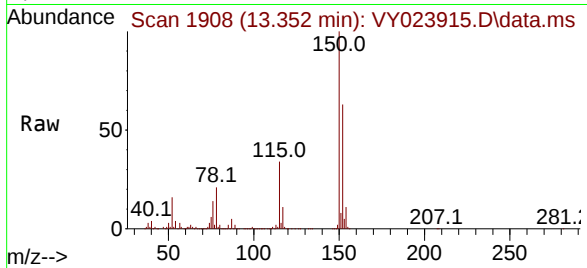




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.352 min Scan# 1907
 Delta R.T. 0.006 min
 Lab File: VY023915.D
 Acq: 09 Dec 2025 17:50

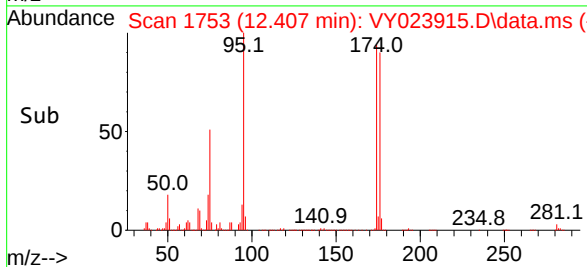
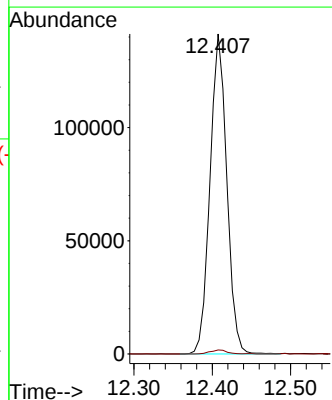
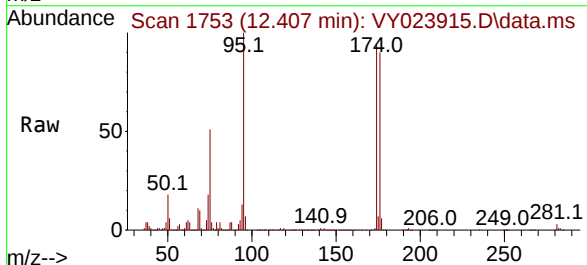
Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-9

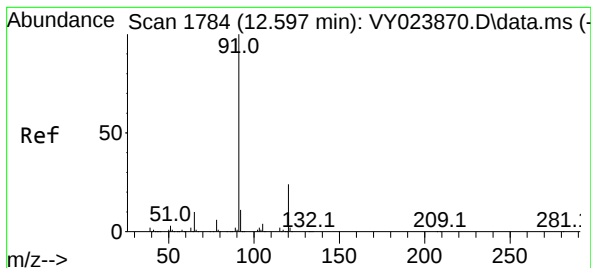
Tgt Ion:152 Resp: 438429
 Ion Ratio Lower Upper
 152 100
 115 54.9 28.8 86.4
 150 158.8 0.0 352.2



#76
 1,2,3-Trichloropropane
 Concen: 48.350 ug/l
 RT: 12.407 min Scan# 1753
 Delta R.T. -0.147 min
 Lab File: VY023915.D
 Acq: 09 Dec 2025 17:50

Tgt Ion: 75 Resp: 210152
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#





#78

n-propylbenzene

Concen: 2.032 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

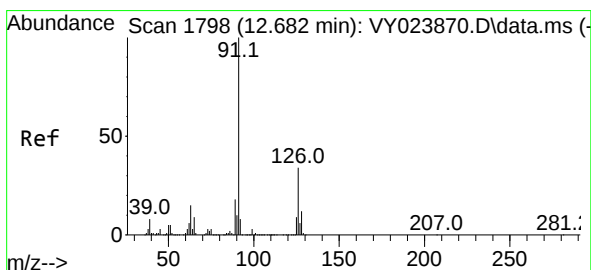
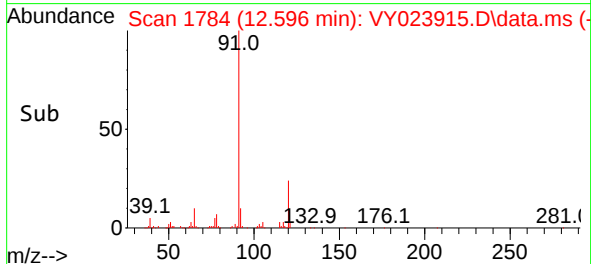
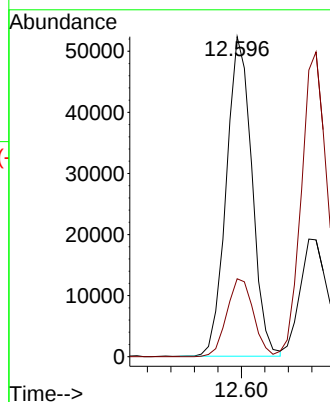
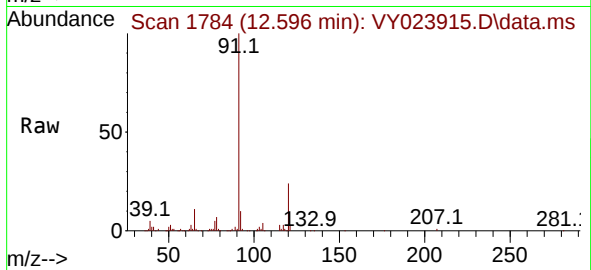
SW-9

Tgt Ion: 91 Resp: 79189

Ion Ratio Lower Upper

91 100

120 25.3 11.5 34.5



#79

2-Chlorotoluene

Concen: 1.314 ug/l

RT: 12.657 min Scan# 1794

Delta R.T. -0.025 min

Lab File: VY023915.D

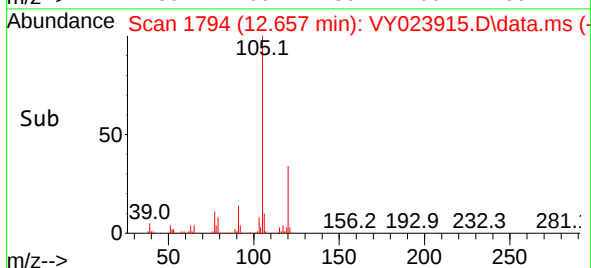
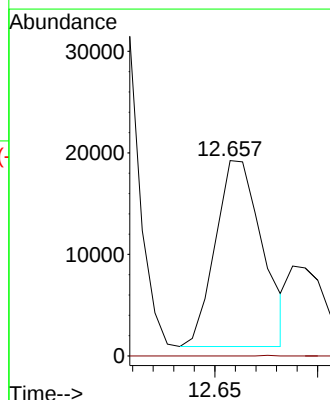
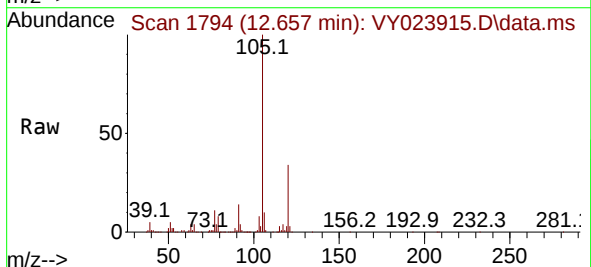
Acq: 09 Dec 2025 17:50

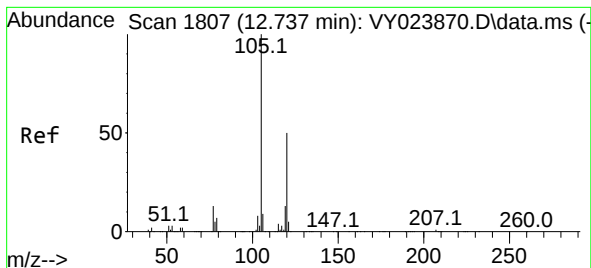
Tgt Ion: 91 Resp: 29086

Ion Ratio Lower Upper

91 100

126 0.1 17.0 51.0#





#80

1,3,5-Trimethylbenzene

Concen: 2.254 ug/l

RT: 12.737 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

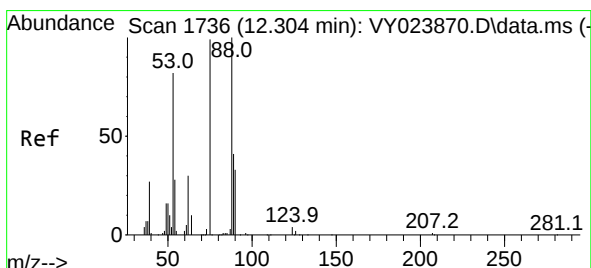
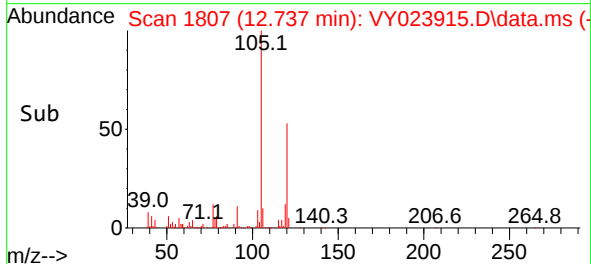
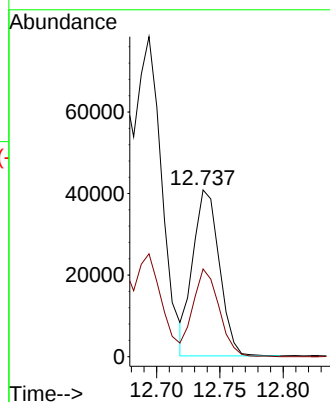
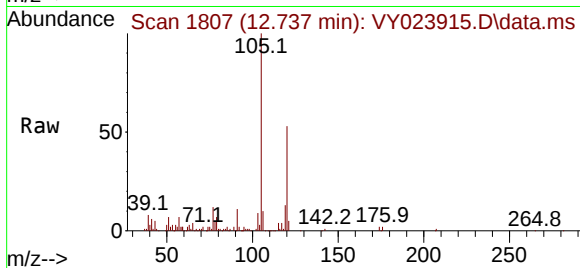
SW-9

Tgt Ion:105 Resp: 59158

Ion Ratio Lower Upper

105 100

120 52.3 24.9 74.6



#81

trans-1,4-Dichloro-2-butene

Concen: 115.803 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.103 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

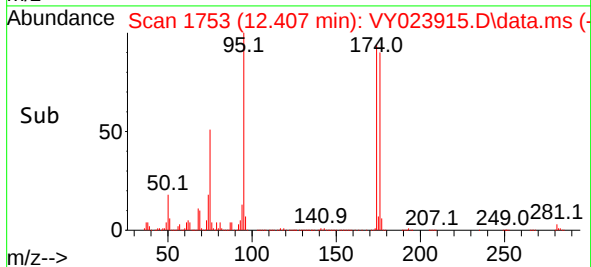
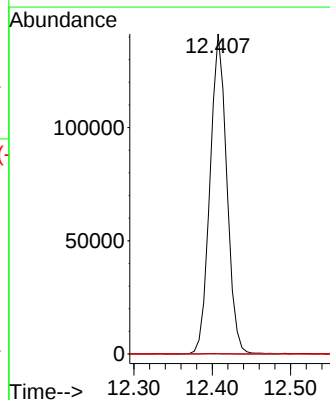
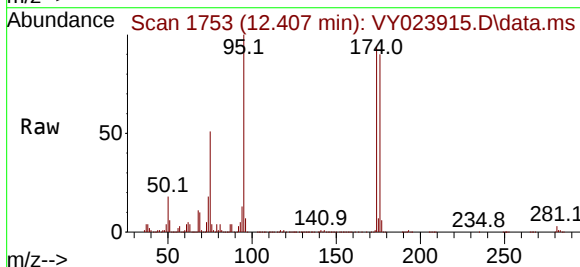
Tgt Ion: 75 Resp: 210152

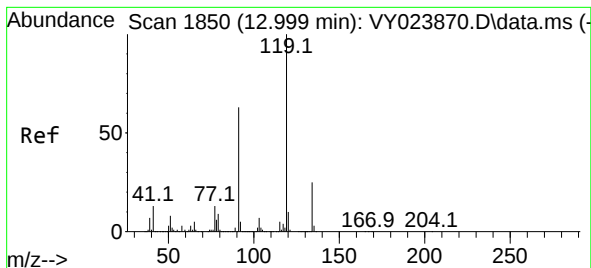
Ion Ratio Lower Upper

75 100

53 0.2 71.1 106.7#

89 0.0 36.3 54.5#





#83

tert-Butylbenzene

Concen: 1.092 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.049 min

Lab File: VY023915.D

Acq: 09 Dec 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

SW-9

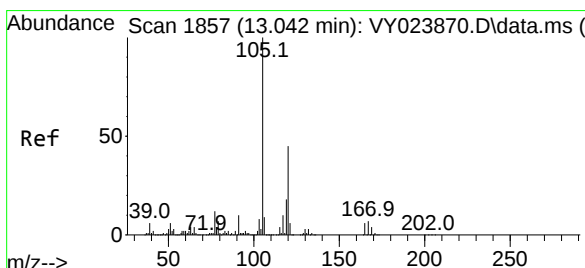
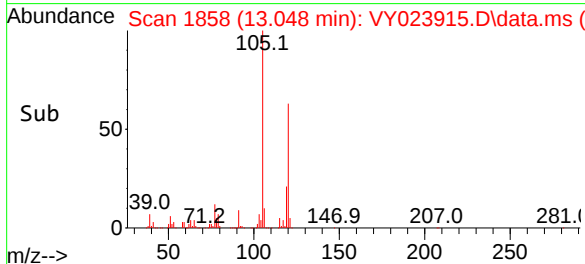
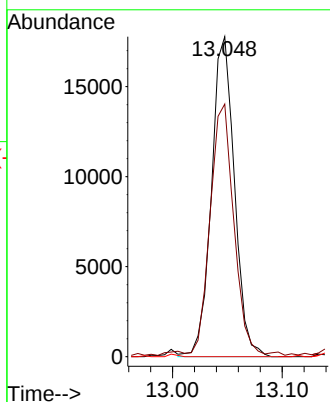
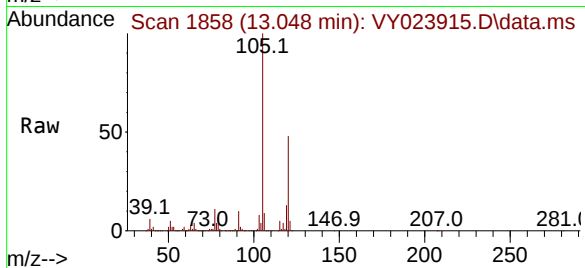
Tgt Ion:119 Resp: 25844

Ion Ratio Lower Upper

119 100

91 80.8 31.8 95.3

134 0.0 12.9 38.7#



#84

1,2,4-Trimethylbenzene

Concen: 7.809 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.006 min

Lab File: VY023915.D

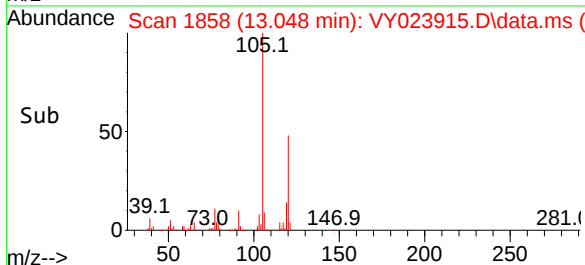
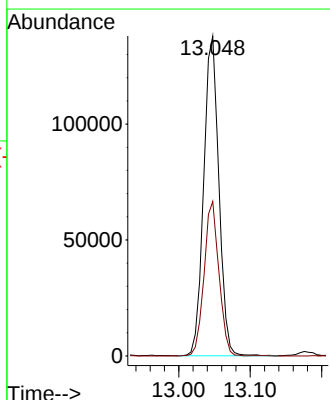
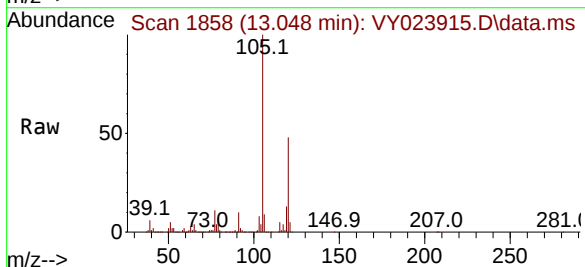
Acq: 09 Dec 2025 17:50

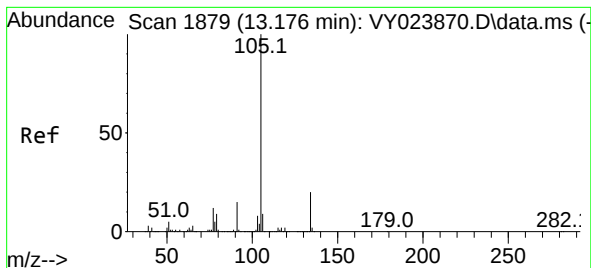
Tgt Ion:105 Resp: 203061

Ion Ratio Lower Upper

105 100

120 47.4 22.4 67.3





#85
sec-Butylbenzene
Concen: 5.769 ug/l
RT: 13.048 min Scan# 11
Delta R.T. -0.128 min
Lab File: VY023915.D
Acq: 09 Dec 2025 17:50

Instrument :
MSVOA_Y
ClientSampleId :
SW-9

Tgt Ion:105 Resp: 203061
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.3#

