

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
 Data File : VY023413.D
 Acq On : 09 Oct 2025 11:23
 Operator : SY/MD
 Sample : Q3313-01
 Misc : 5.16g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ETGI-360

Quant Time: Oct 10 04:24:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	184098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	283676	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	234664	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	90712	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	70258	45.638	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.280%
35) Dibromofluoromethane	7.634	113	96863	55.571	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	111.140%
50) Toluene-d8	10.109	98	324641	50.012	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.020%
62) 4-Bromofluorobenzene	12.408	95	87563	40.858	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.720%

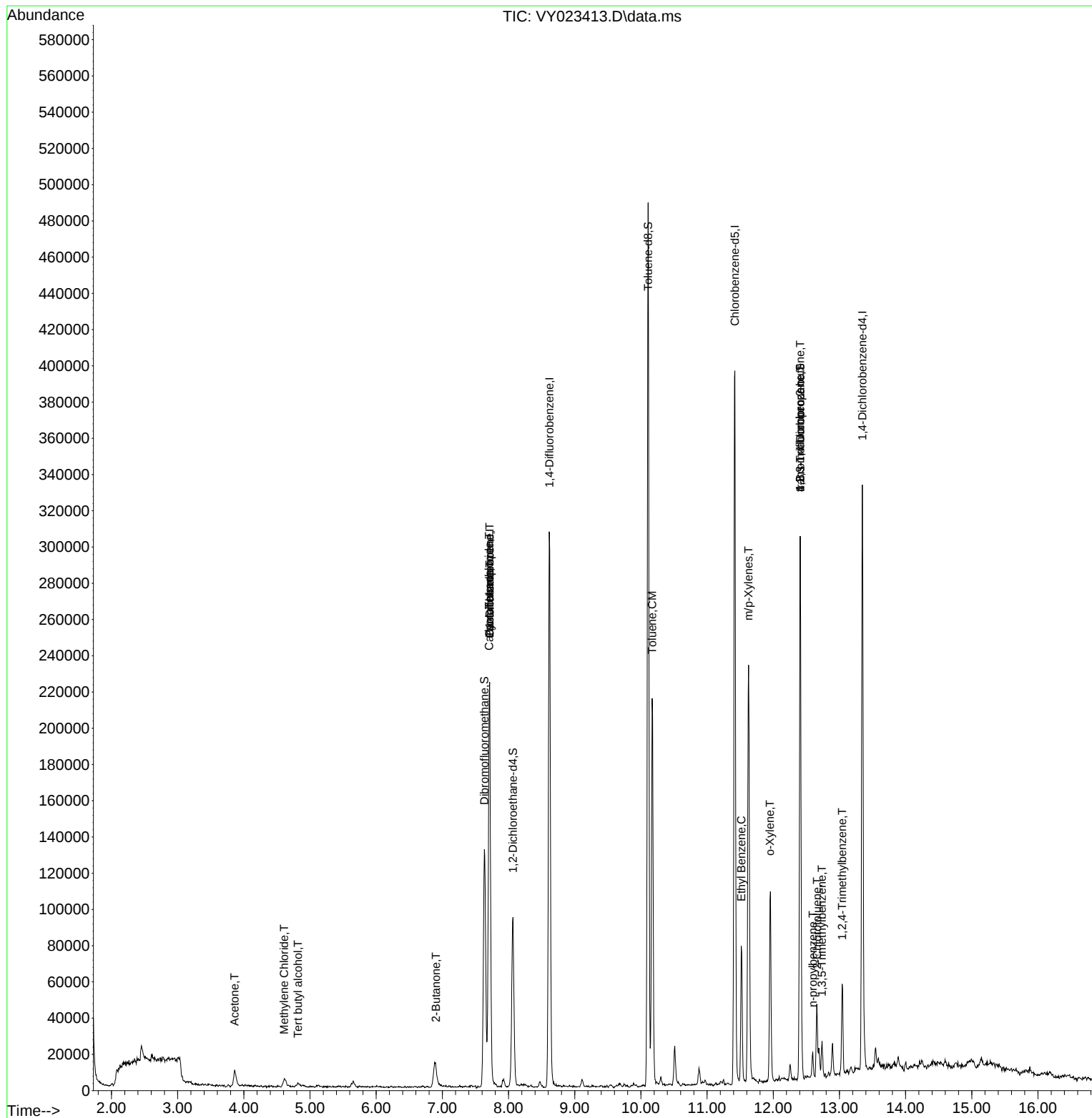
Target Compounds						Qvalue
11) Tert butyl alcohol	4.817	59	1184	10.338	ug/l #	72
16) Acetone	3.860	43	14611	39.867	ug/l	99
20) Methylene Chloride	4.610	84	3348	1.689	ug/l	97
25) 2-Butanone	6.902	43	891	1.991	ug/l #	40
31) Cyclohexane	7.713	56	3830	1.496	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	12651	5.482	ug/l #	48
38) Carbon Tetrachloride	7.707	117	16742	5.983	ug/l #	15
52) Toluene	10.170	92	94305	19.875	ug/l	99
67) Ethyl Benzene	11.517	91	50780	6.147	ug/l	100
68) m/p-Xylenes	11.627	106	76209	22.998	ug/l	100
69) o-Xylene	11.950	106	30992	9.971	ug/l	94
76) 1,2,3-Trichloropropane	12.408	75	42351	52.917	ug/l #	100
78) n-propylbenzene	12.597	91	9563	1.382	ug/l	95
79) 2-Chlorotoluene	12.664	91	4306	1.063	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.737	105	9024	1.868	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.408	75	42351	129.764	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.042	105	25838	5.359	ug/l	94

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

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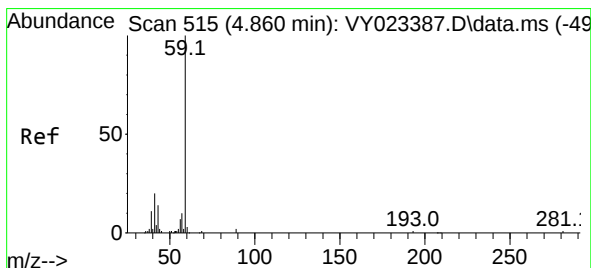
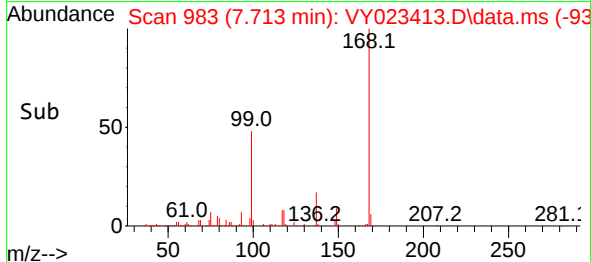
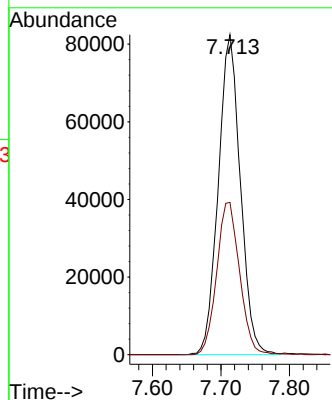
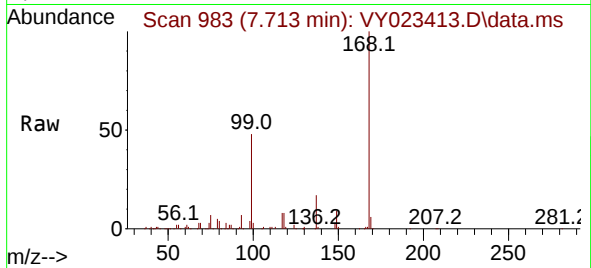




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

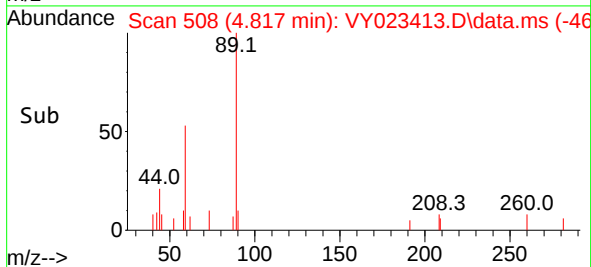
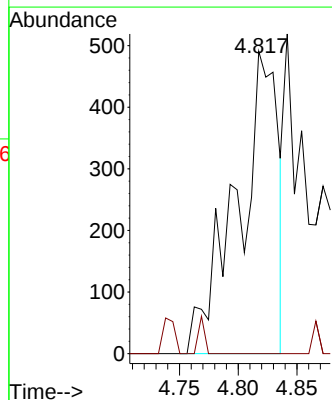
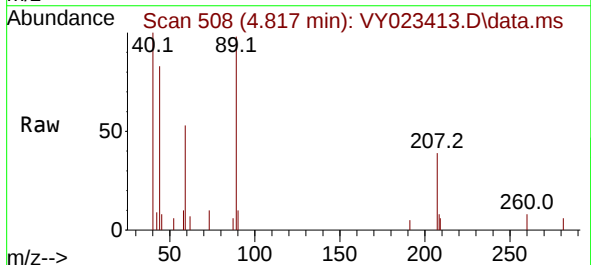
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MSVOA_Y
ClientSampleId :
ETGI-360

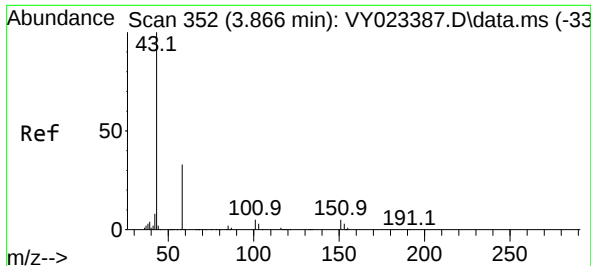
Tgt Ion:168 Resp: 184098
Ion Ratio Lower Upper
168 100
99 47.6 39.7 59.5



#11
Tert butyl alcohol
Concen: 10.338 ug/l
RT: 4.817 min Scan# 508
Delta R.T. -0.043 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion: 59 Resp: 1184
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

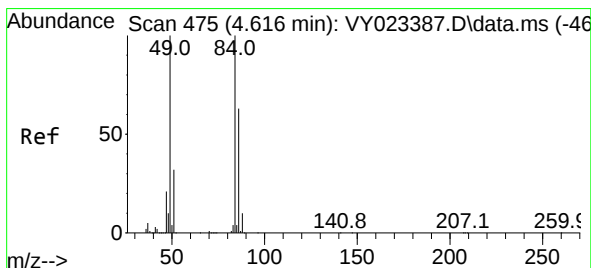
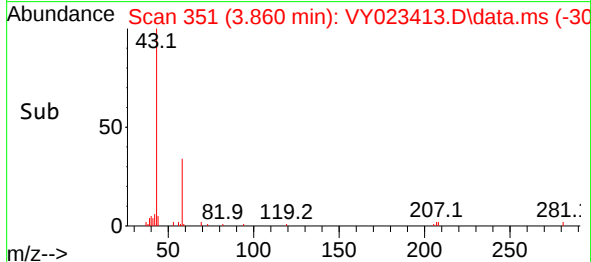
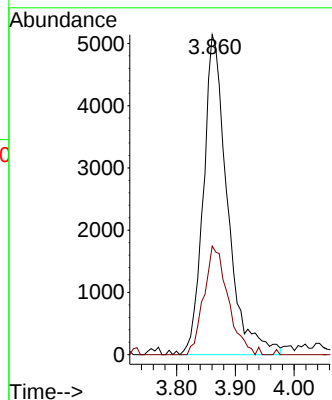
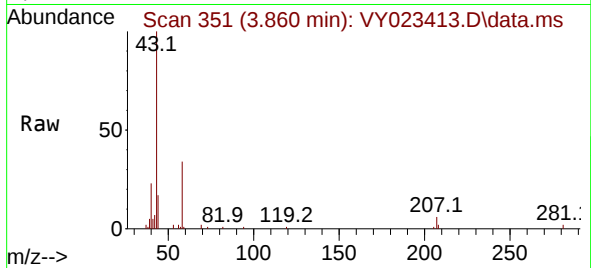




#16
Acetone
Concen: 39.867 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.006 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

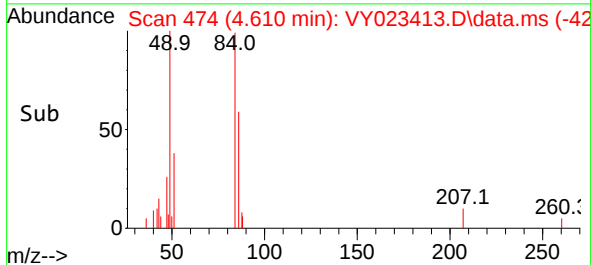
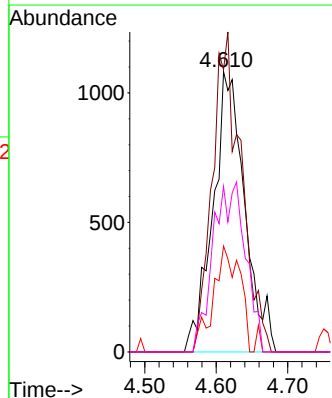
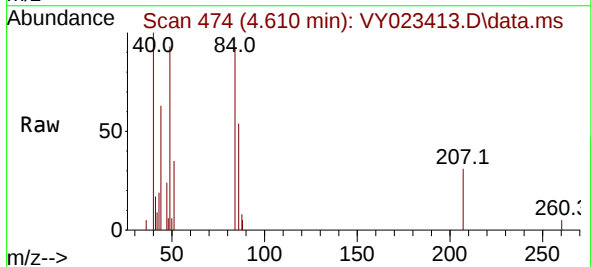
Instrument :
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ClientSampleId :
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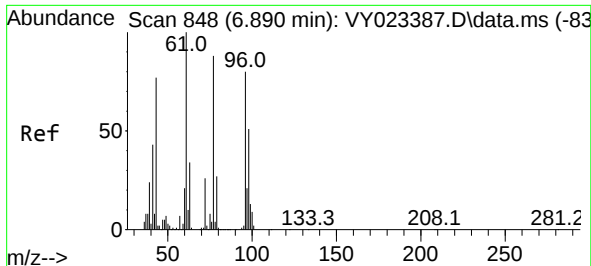
Tgt Ion: 43 Resp: 14611
Ion Ratio Lower Upper
43 100
58 33.9 27.7 41.5



#20
Methylene Chloride
Concen: 1.689 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion: 84 Resp: 3348
Ion Ratio Lower Upper
84 100
49 100.6 80.2 120.4
51 37.8 25.9 38.9
86 59.1 50.6 75.8

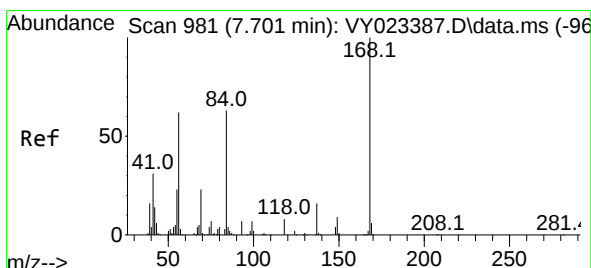
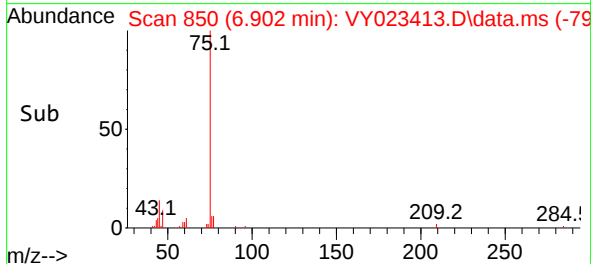
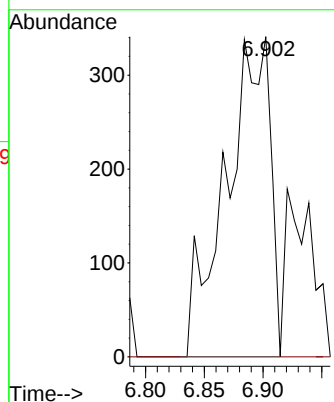
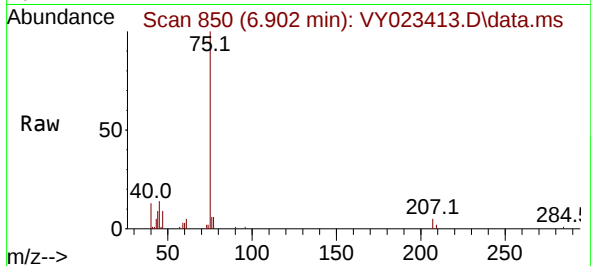




#25
2-Butanone
Concen: 1.991 ug/l
RT: 6.902 min Scan# 81
Delta R.T. 0.012 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

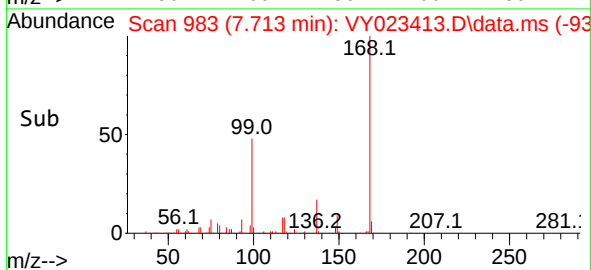
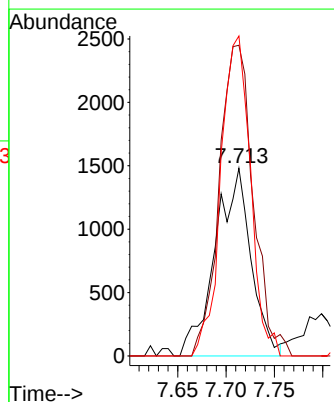
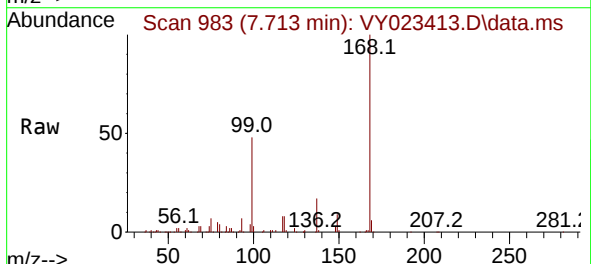
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-360

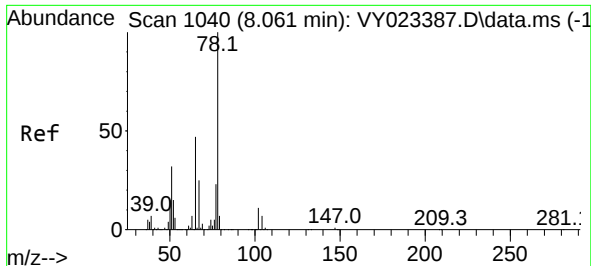
Tgt Ion: 43 Resp: 891
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#



#31
Cyclohexane
Concen: 1.496 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion: 56 Resp: 3830
Ion Ratio Lower Upper
56 100
69 165.6 30.0 45.0#
84 170.5 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 45.638 ug/l

RT: 8.067 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VY023413.D

Acq: 09 Oct 2025 11:23

Instrument :

MSVOA_Y

ClientSampleId :

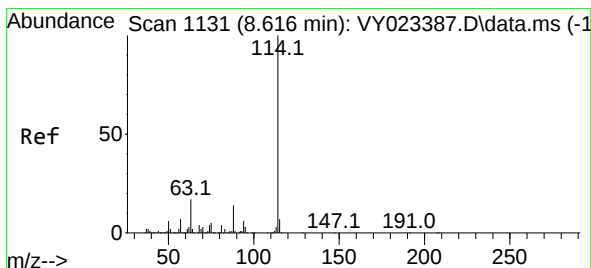
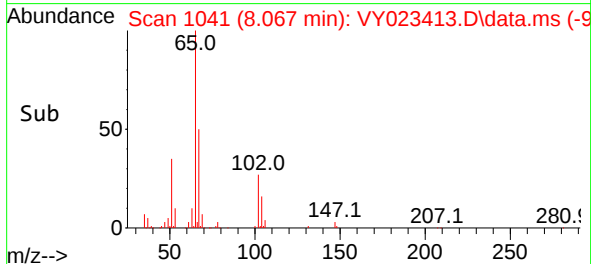
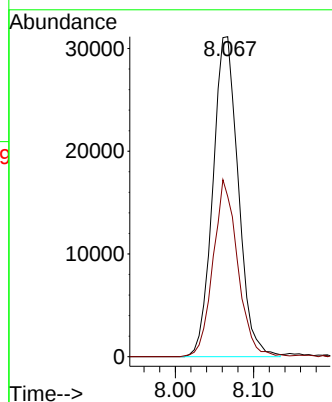
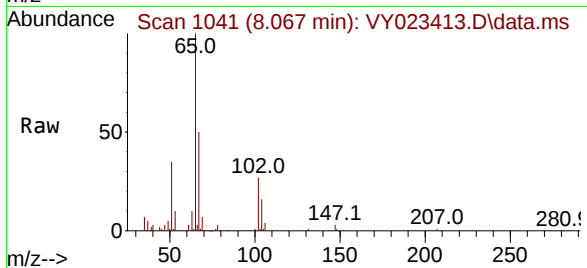
ETGI-360

Tgt Ion: 65 Resp: 70258

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023413.D

Acq: 09 Oct 2025 11:23

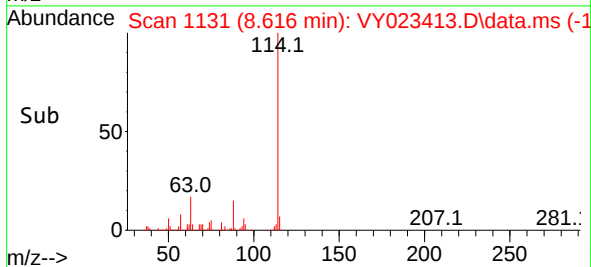
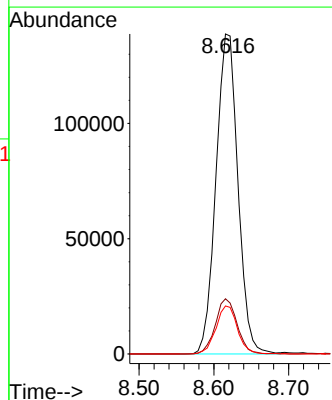
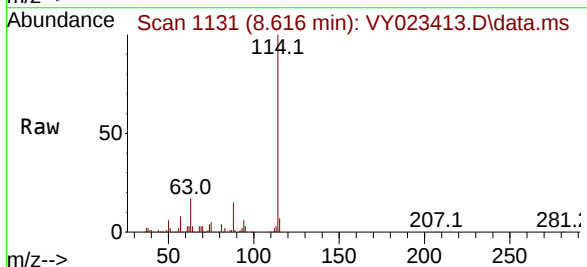
Tgt Ion: 114 Resp: 283676

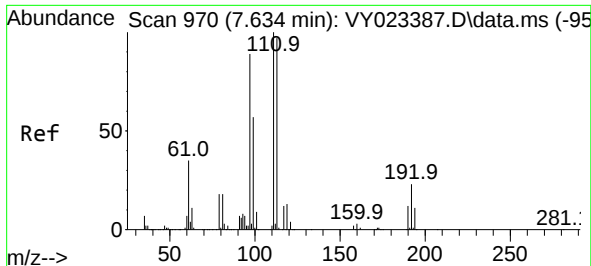
Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.2

88 15.0 0.0 28.4

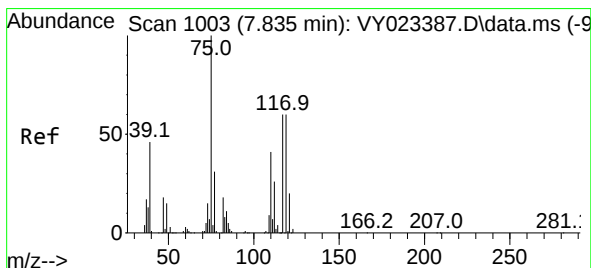
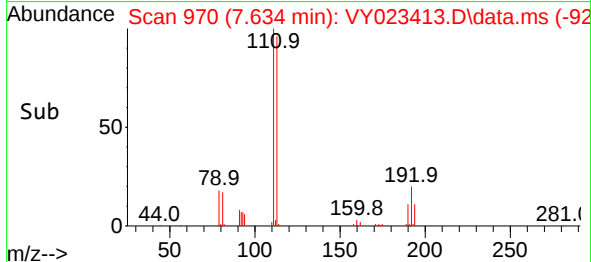
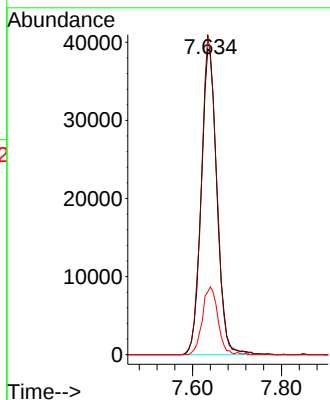
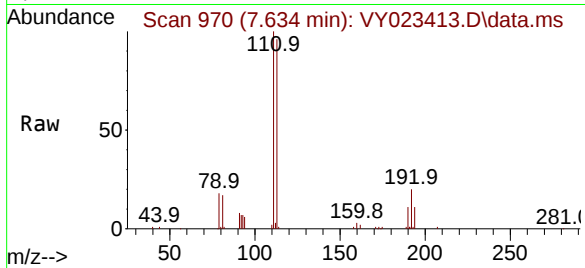




#35
Dibromofluoromethane
Concen: 55.571 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

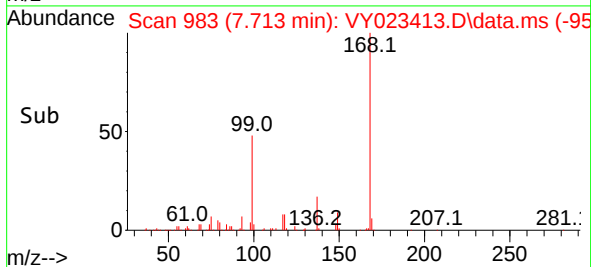
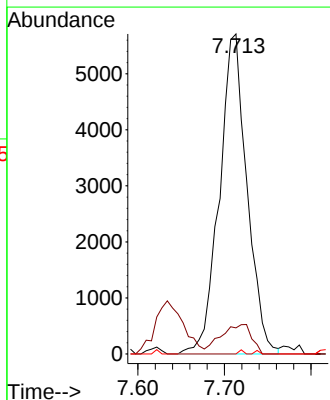
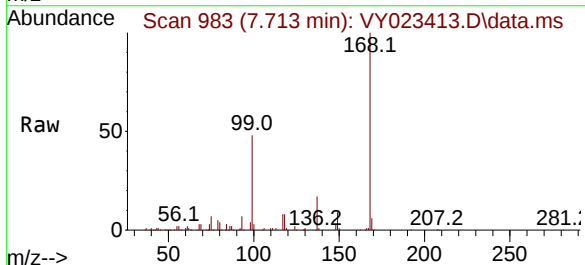
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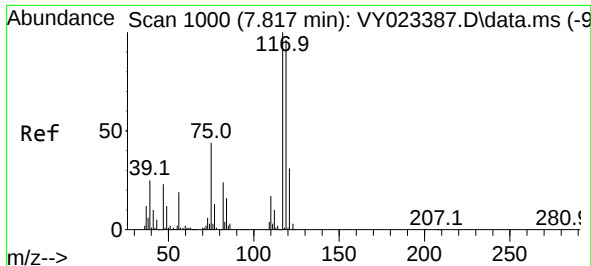
Tgt Ion:113 Resp: 96863
Ion Ratio Lower Upper
113 100
111 101.4 81.8 122.6
192 21.7 18.0 27.0



#36
1,1-Dichloropropene
Concen: 5.482 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion: 75 Resp: 12651
Ion Ratio Lower Upper
75 100
110 10.3 19.9 59.7#
77 0.2 25.0 37.6#

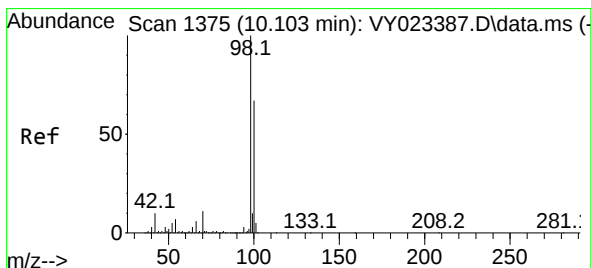
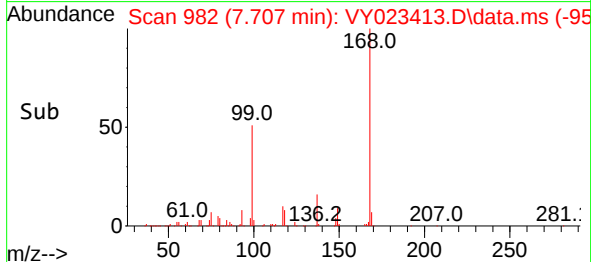
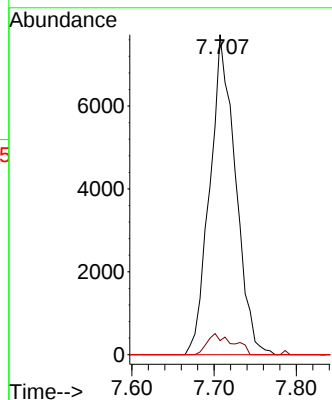
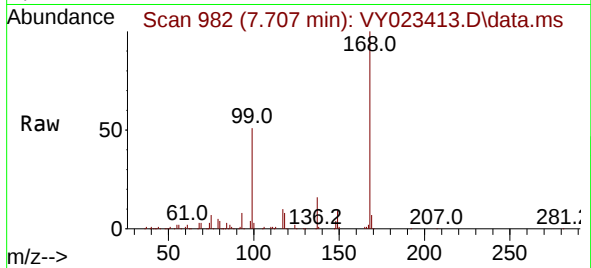




#38
Carbon Tetrachloride
Concen: 5.983 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

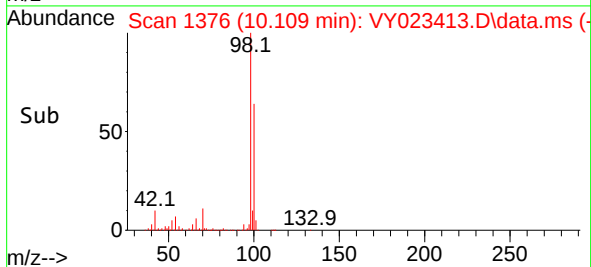
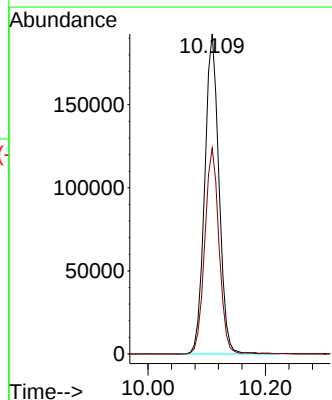
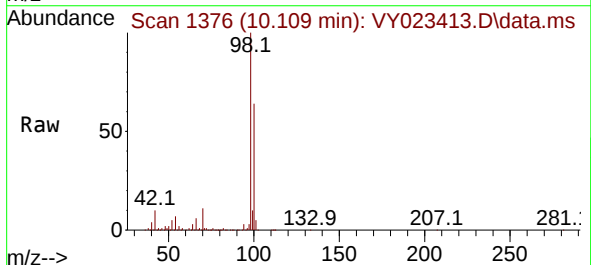
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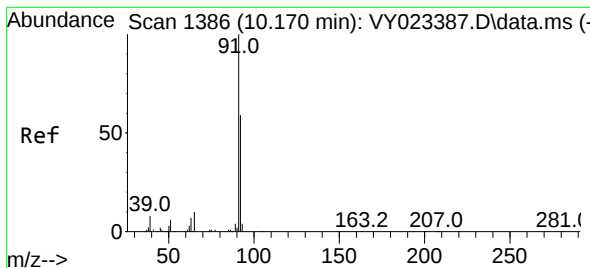
Tgt Ion:117 Resp: 16742
Ion Ratio Lower Upper
117 100
119 4.4 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 50.012 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion: 98 Resp: 324641
Ion Ratio Lower Upper
98 100
100 64.1 53.0 79.4





#52

Toluene

Concen: 19.875 ug/l

RT: 10.170 min Scan# 1386

Delta R.T. -0.000 min

Lab File: VY023413.D

Acq: 09 Oct 2025 11:23

Instrument :

MSVOA_Y

ClientSampleId :

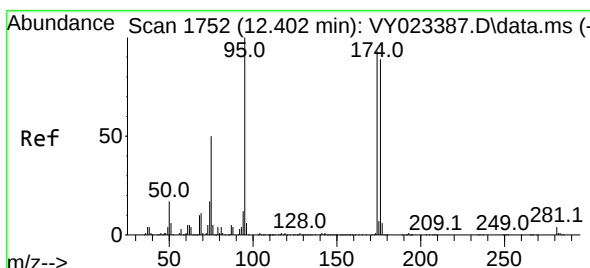
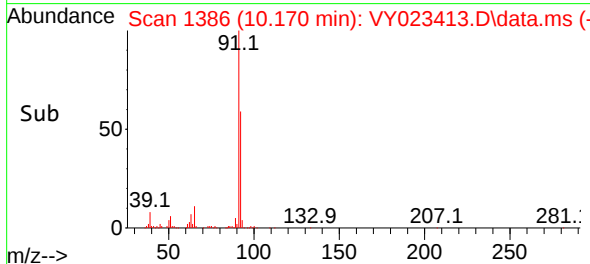
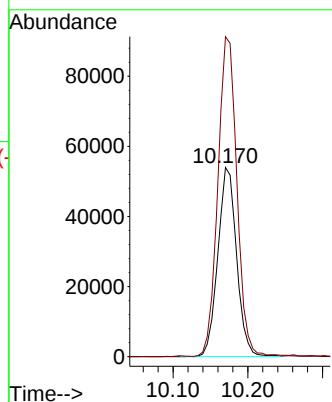
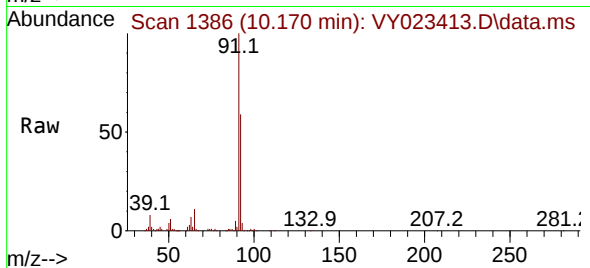
ETGI-360

Tgt Ion: 92 Resp: 94305

Ion Ratio Lower Upper

92 100

91 171.8 136.4 204.6



#62

4-Bromofluorobenzene

Concen: 40.858 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY023413.D

Acq: 09 Oct 2025 11:23

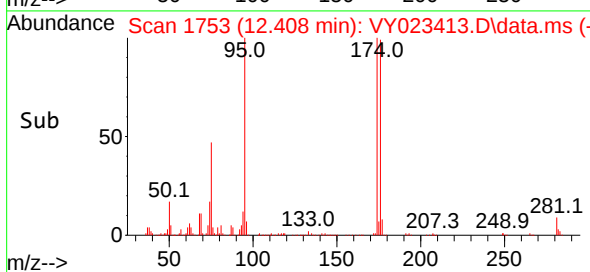
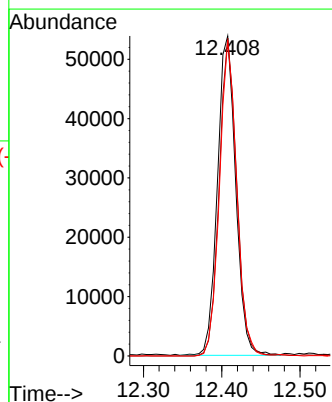
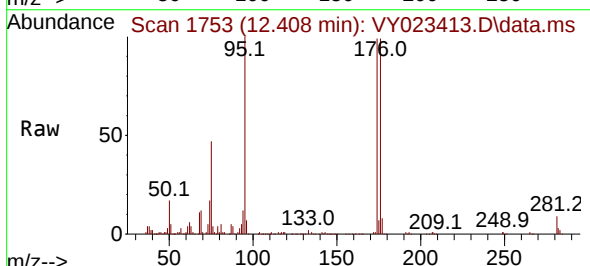
Tgt Ion: 95 Resp: 87563

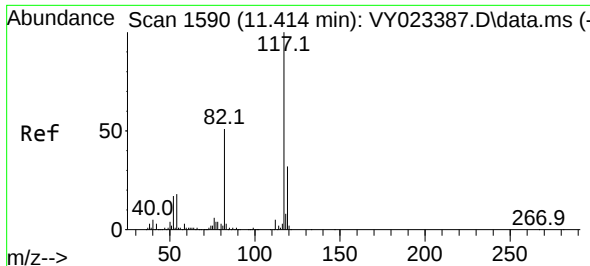
Ion Ratio Lower Upper

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174 95.5 0.0 192.8

176 93.0 0.0 187.6

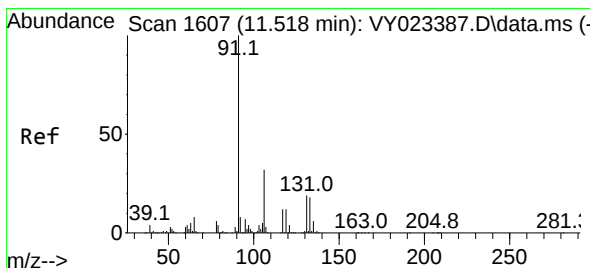
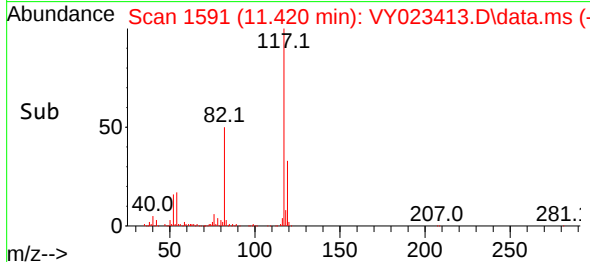
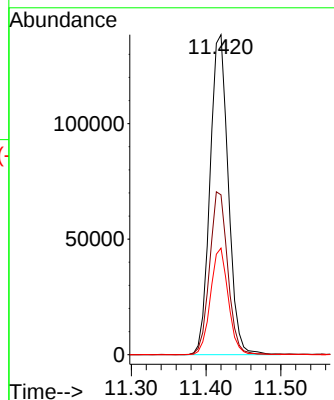
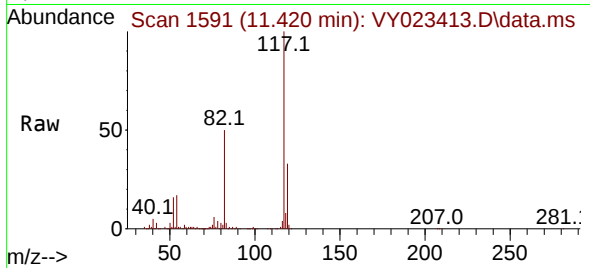




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

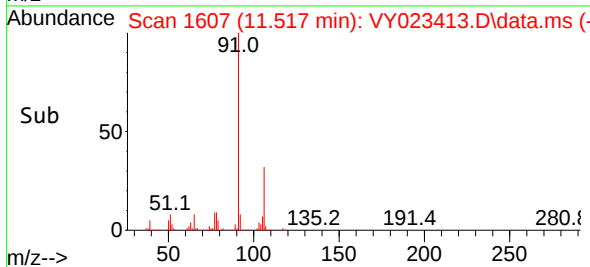
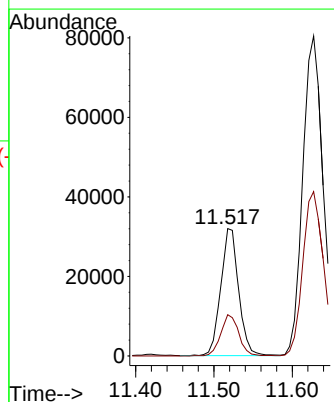
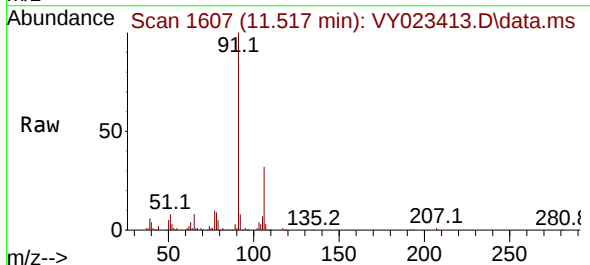
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-360

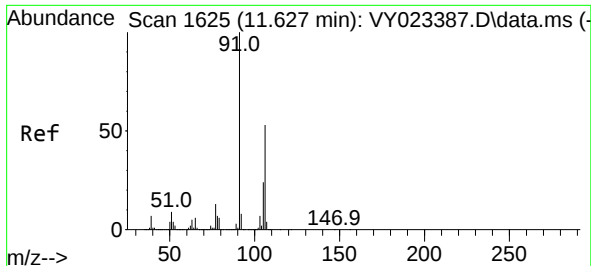
Tgt Ion:117 Resp: 234664
Ion Ratio Lower Upper
117 100
82 49.9 41.0 61.4
119 33.3 25.6 38.4



#67
Ethyl Benzene
Concen: 6.147 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion: 91 Resp: 50780
Ion Ratio Lower Upper
91 100
106 32.5 25.8 38.8

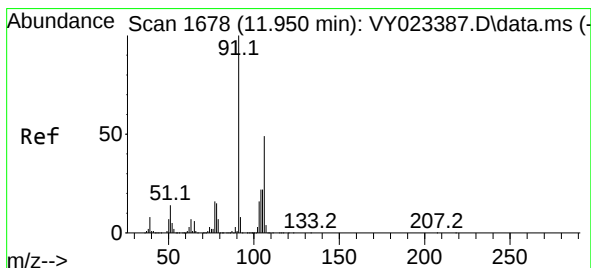
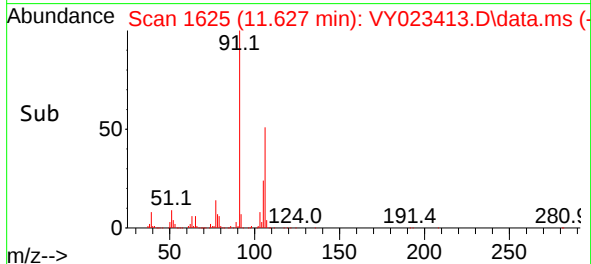
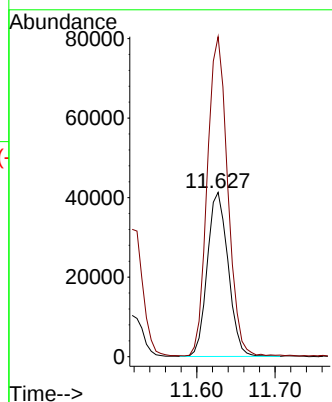
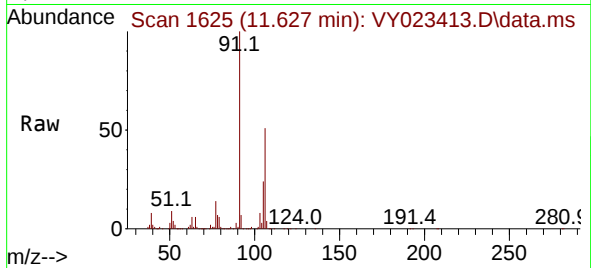




#68
m/p-Xylenes
Concen: 22.998 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

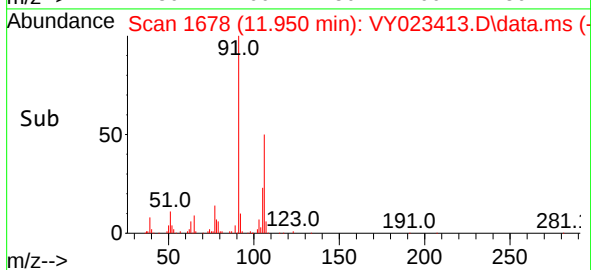
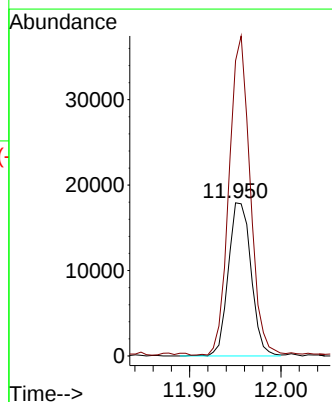
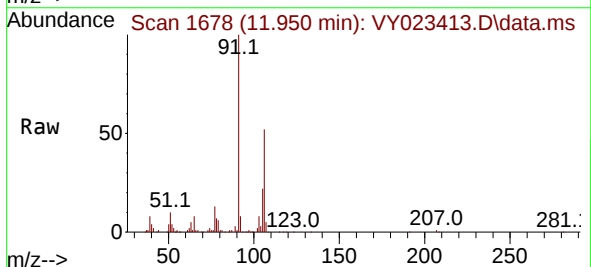
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-360

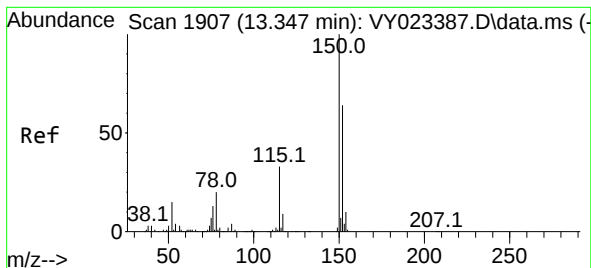
Tgt Ion:106 Resp: 76209
Ion Ratio Lower Upper
106 100
91 191.0 152.6 229.0



#69
o-Xylene
Concen: 9.971 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.000 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion:106 Resp: 30992
Ion Ratio Lower Upper
106 100
91 193.6 101.4 304.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023413.D

Acq: 09 Oct 2025 11:23

Instrument :

MSVOA_Y

ClientSampleId :

ETGI-360

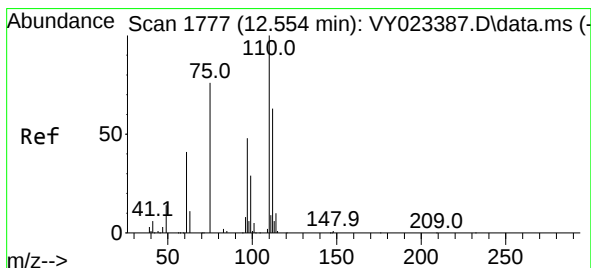
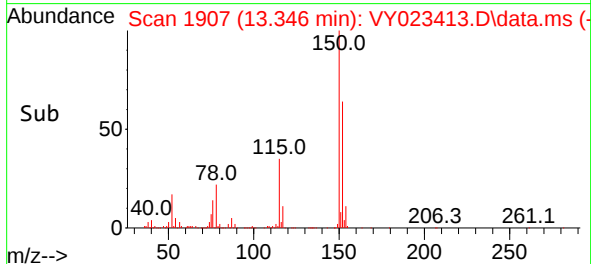
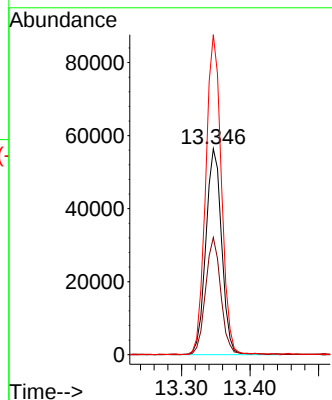
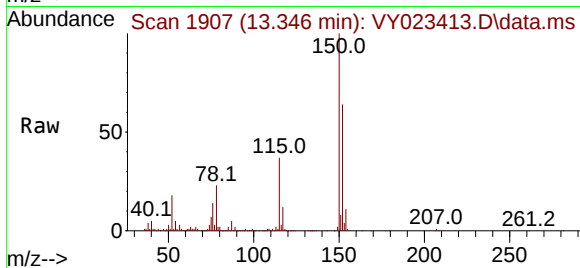
Tgt Ion:152 Resp: 90712

Ion Ratio Lower Upper

152 100

115 54.4 27.1 81.2

150 153.7 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 52.917 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023413.D

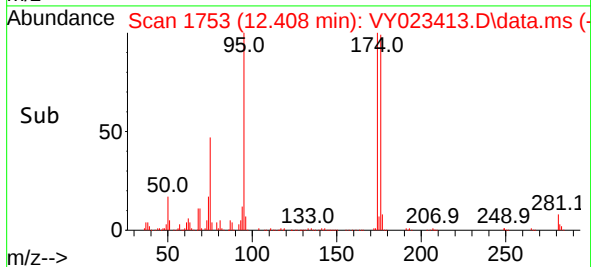
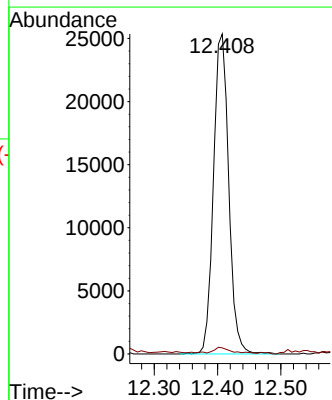
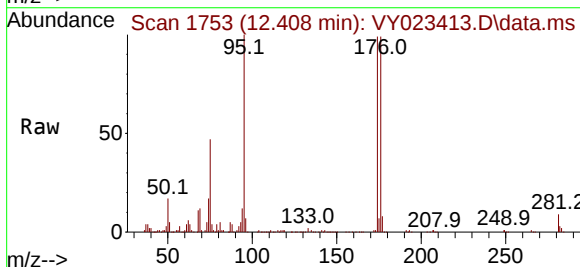
Acq: 09 Oct 2025 11:23

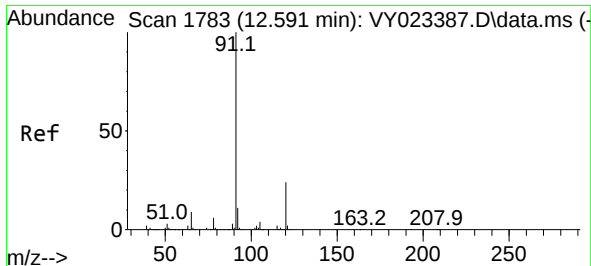
Tgt Ion: 75 Resp: 42351

Ion Ratio Lower Upper

75 100

77 2.2 0.0 0.0#

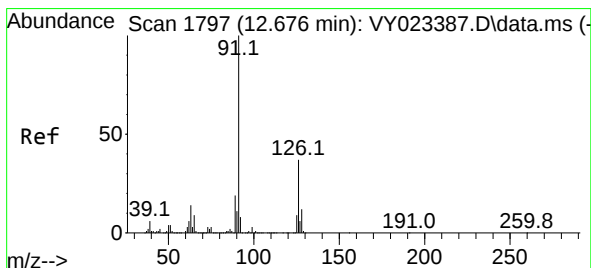
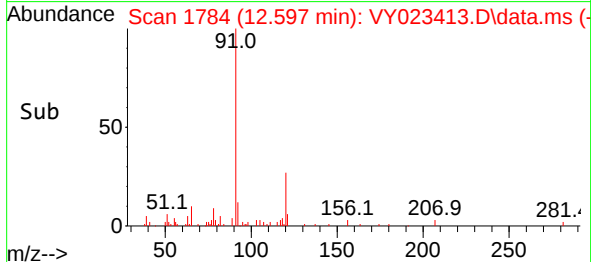
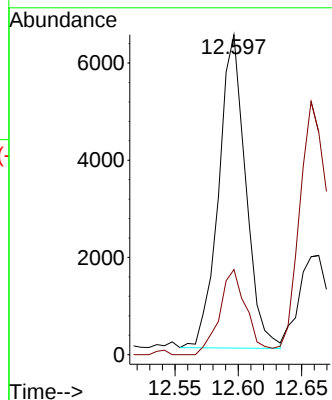
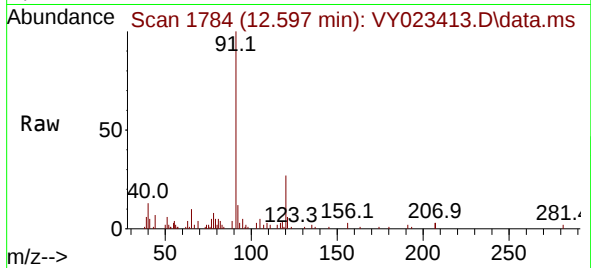




#78
n-propylbenzene
Concen: 1.382 ug/l
RT: 12.597 min Scan# 1783
Delta R.T. 0.006 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

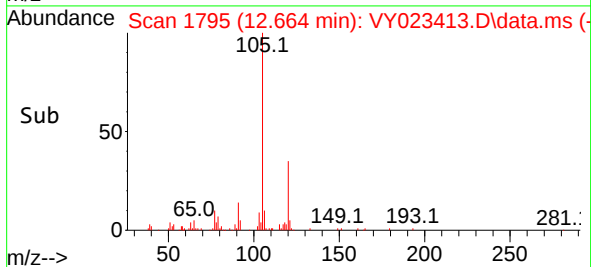
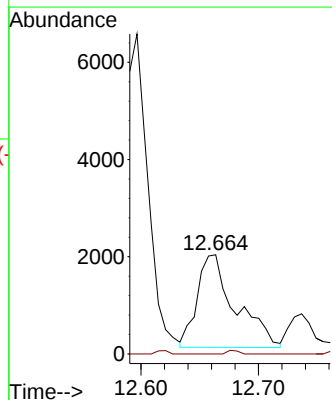
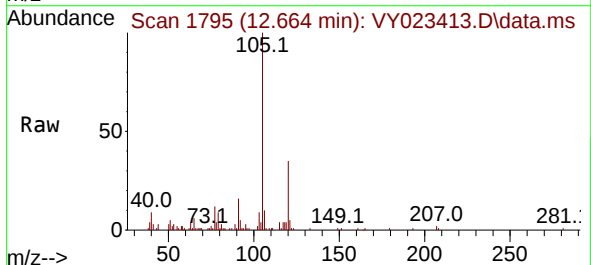
Instrument :
MSVOA_Y
ClientSampleId :
ETGI-360

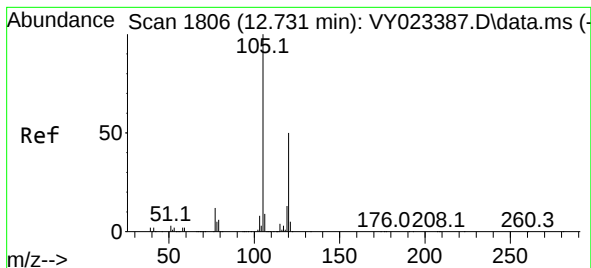
Tgt Ion: 91 Resp: 9563
Ion Ratio Lower Upper
91 100
120 27.2 12.3 36.8



#79
2-Chlorotoluene
Concen: 1.063 ug/l
RT: 12.664 min Scan# 1795
Delta R.T. -0.012 min
Lab File: VY023413.D
Acq: 09 Oct 2025 11:23

Tgt Ion: 91 Resp: 4306
Ion Ratio Lower Upper
91 100
126 1.1 18.5 55.5#





#80

1,3,5-Trimethylbenzene

Concen: 1.868 ug/l

RT: 12.737 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023413.D

Acq: 09 Oct 2025 11:23

Instrument :

MSVOA_Y

ClientSampleId :

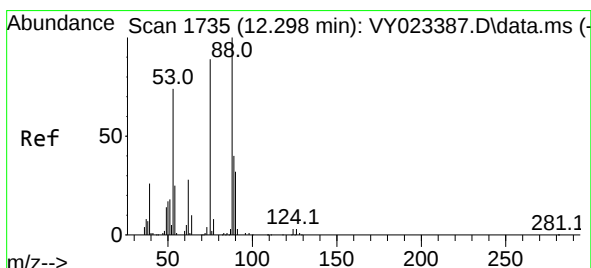
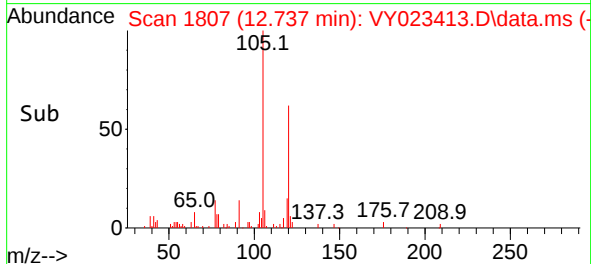
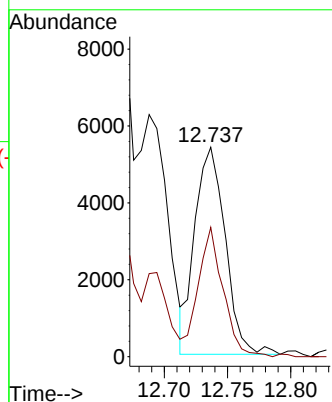
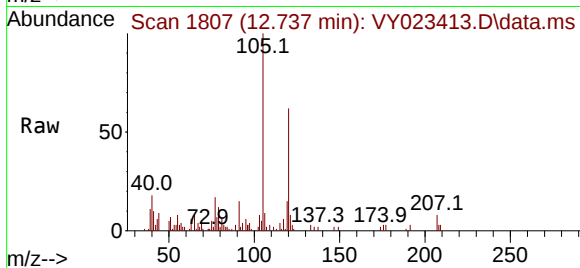
ETGI-360

Tgt Ion:105 Resp: 9024

Ion Ratio Lower Upper

105 100

120 51.4 25.4 76.4



#81

trans-1,4-Dichloro-2-butene

Concen: 129.764 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.110 min

Lab File: VY023413.D

Acq: 09 Oct 2025 11:23

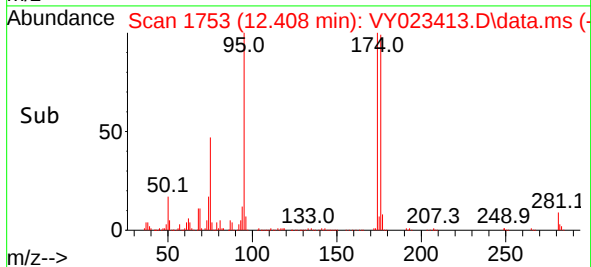
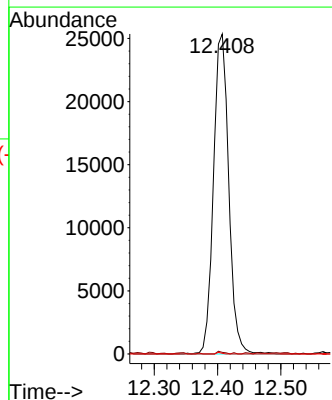
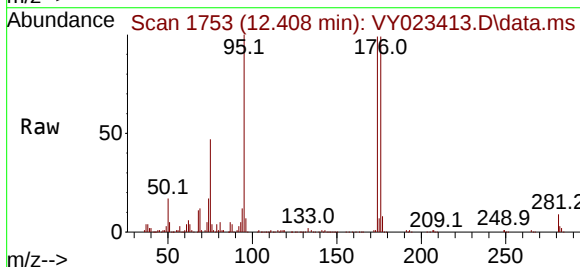
Tgt Ion: 75 Resp: 42351

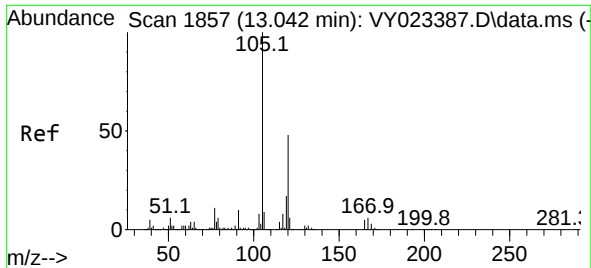
Ion Ratio Lower Upper

75 100

53 0.4 68.6 102.8#

89 0.2 39.0 58.4#





#84
 1,2,4-Trimethylbenzene
 Concen: 5.359 ug/l
 RT: 13.042 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VY023413.D
 Acq: 09 Oct 2025 11:23

Instrument :
 MSVOA_Y
 ClientSampleId :
 ETGI-360

Tgt Ion:105 Resp: 25838
 Ion Ratio Lower Upper
 105 100
 120 51.5 23.8 71.2

