

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072125\
 Data File : VY023016.D
 Acq On : 21 Jul 2025 10:39
 Operator : SY/MD
 Sample : VY0721SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0721SBL01

Quant Time: Jul 22 04:47:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

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

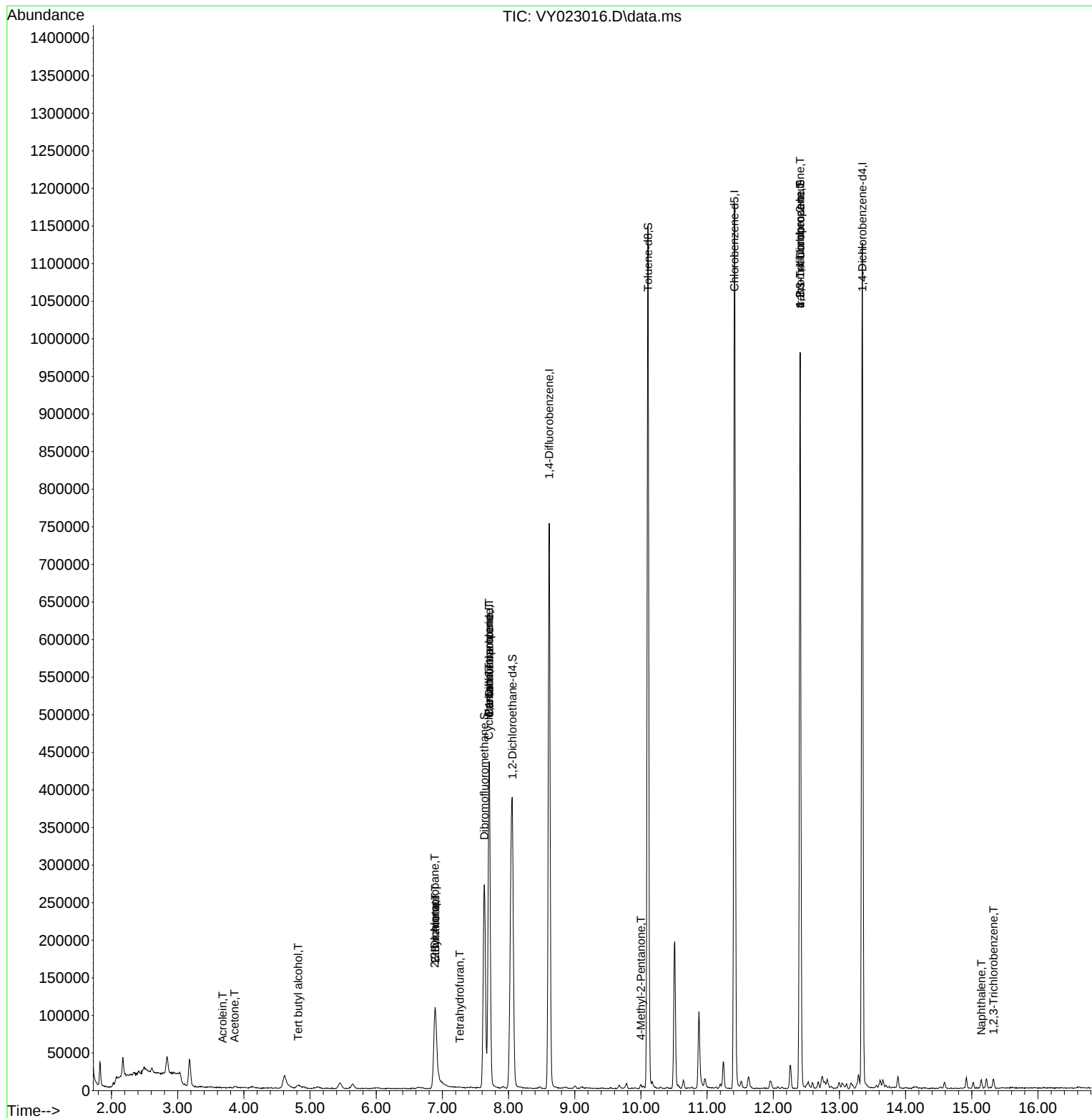
Internal Standards						
1) Pentafluorobenzene	7.707	168	332701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	625866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.413	117	615563	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	271493	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	182021	54.044	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 108.080%			
35) Dibromofluoromethane	7.634	113	196791	49.568	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.140%			
50) Toluene-d8	10.109	98	756332	48.040	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.080%			
62) 4-Bromofluorobenzene	12.407	95	271169	54.716	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 109.440%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.823	59	2484	12.195	ug/l #	73
13) Acrolein	3.677	56	131	1.369	ug/l #	1
16) Acetone	3.860	43	1964	3.217	ug/l #	81
20) Methylene Chloride	4.616	84	11901	Below Cal		90
25) 2-Butanone	6.890	43	7358	8.401	ug/l #	78
26) 2,2-Dichloropropane	6.884	77	10069	1.601	ug/l #	53
29) Tetrahydrofuran	7.262	42	679	1.224	ug/l #	43
31) Cyclohexane	7.701	56	8154	1.216	ug/l #	14
36) 1,1-Dichloropropene	7.707	75	27460	4.391	ug/l #	51
37) Ethyl Acetate	6.890	43	7358	3.168	ug/l #	1
38) Carbon Tetrachloride	7.707	117	34223	5.037	ug/l #	17
51) 4-Methyl-2-Pentanone	9.999	43	3876	1.655	ug/l	91
76) 1,2,3-Trichloropropane	12.407	75	149970	44.330	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	149970	132.036	ug/l #	12
95) Naphthalene	15.145	128	8894	1.238	ug/l	99
96) 1,2,3-Trichlorobenzene	15.327	180	3708	1.003	ug/l	93

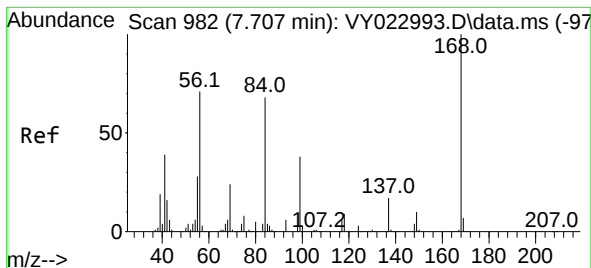
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 9

Delta R.T. -0.000 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

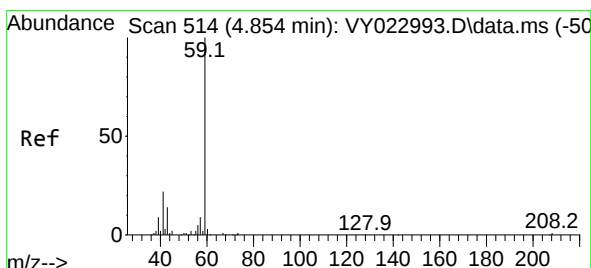
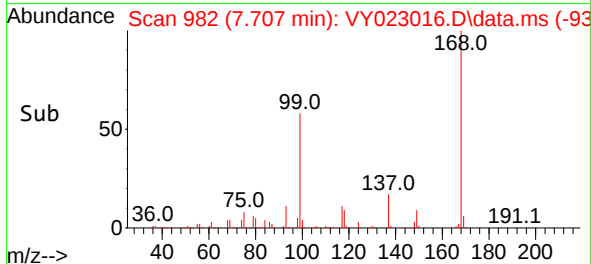
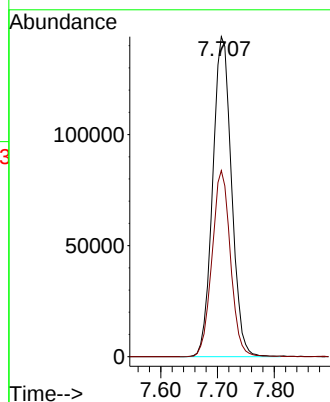
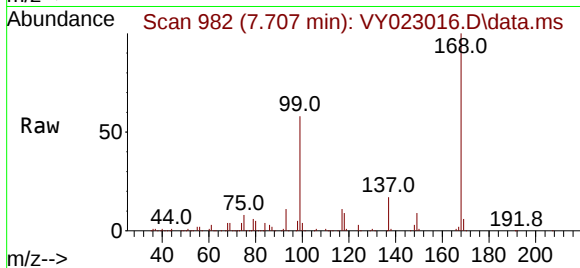
VY0721SBL01

Tgt Ion:168 Resp: 332701

Ion Ratio Lower Upper

168 100

99 58.2 44.4 66.6



#11

Tert butyl alcohol

Concen: 12.195 ug/l

RT: 4.823 min Scan# 509

Delta R.T. -0.031 min

Lab File: VY023016.D

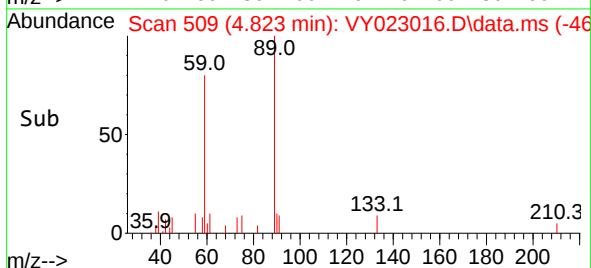
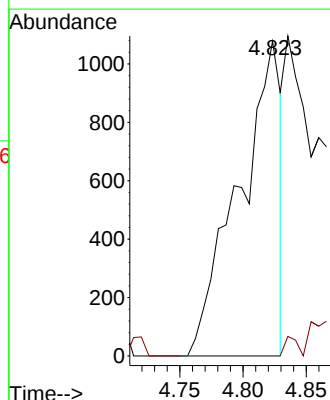
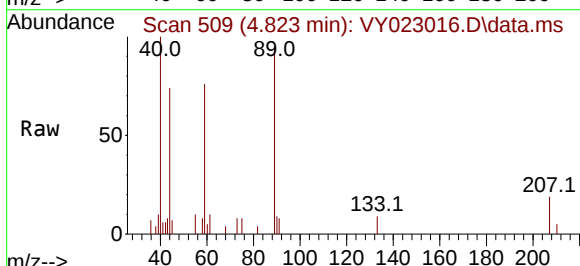
Acq: 21 Jul 2025 10:39

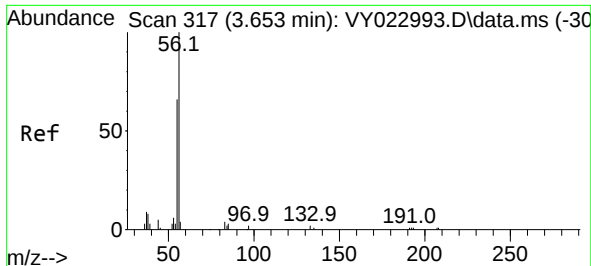
Tgt Ion: 59 Resp: 2484

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#13

Acrolein

Concen: 1.369 ug/l

RT: 3.677 min Scan# 317

Delta R.T. 0.024 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

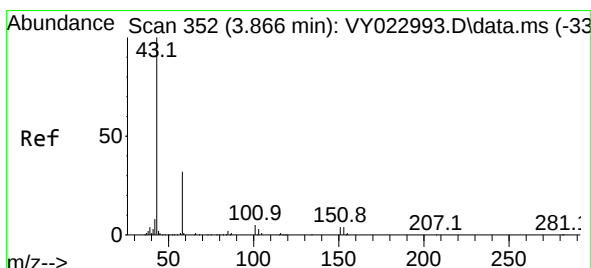
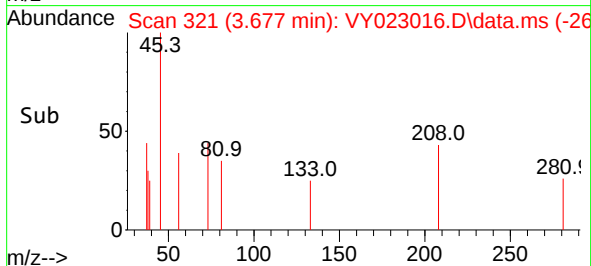
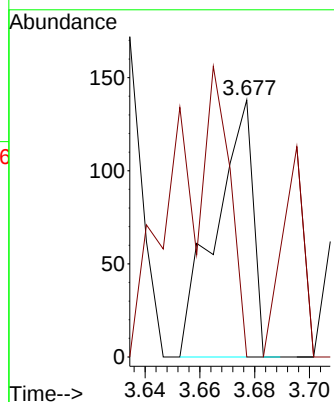
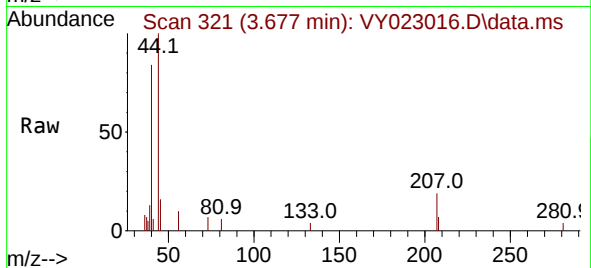
VY0721SBL01

Tgt Ion: 56 Resp: 131

Ion Ratio Lower Upper

56 100

55 160.3 57.8 86.6#



#16

Acetone

Concen: 3.217 ug/l

RT: 3.860 min Scan# 351

Delta R.T. -0.006 min

Lab File: VY023016.D

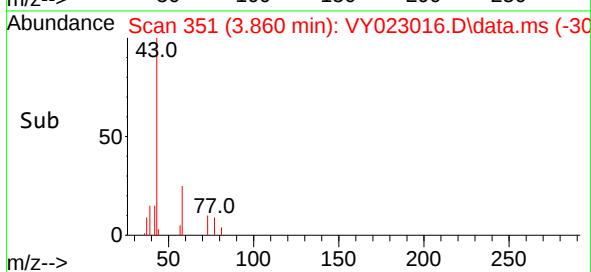
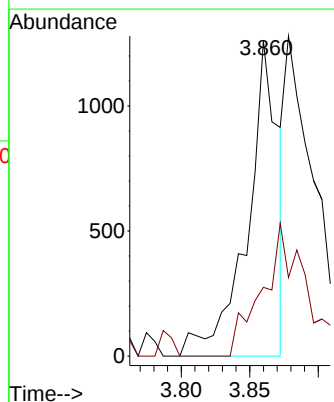
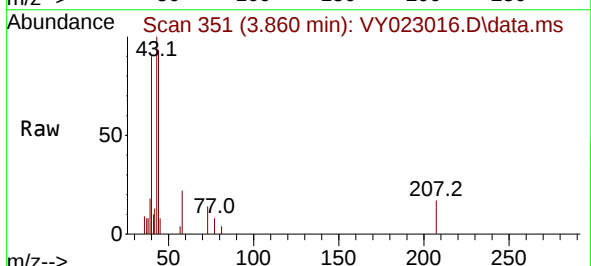
Acq: 21 Jul 2025 10:39

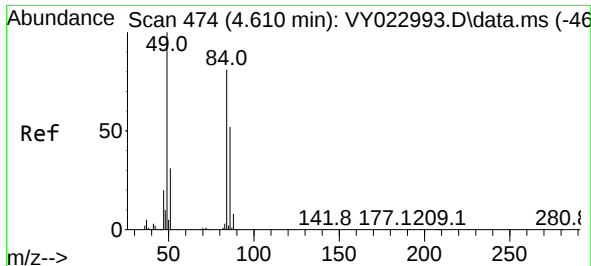
Tgt Ion: 43 Resp: 1964

Ion Ratio Lower Upper

43 100

58 21.8 26.2 39.4#

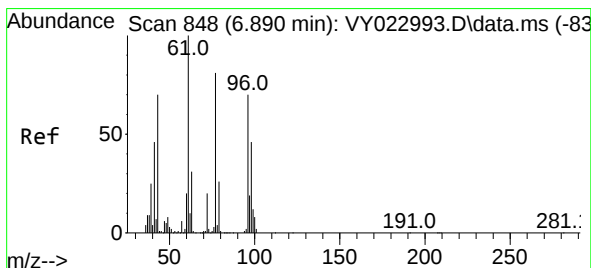
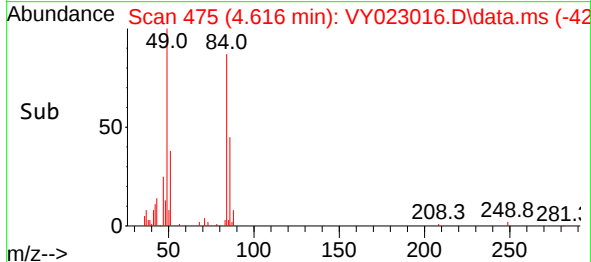
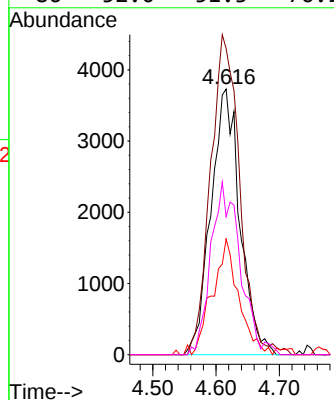
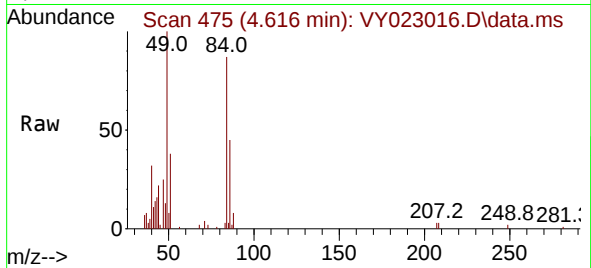




#20
Methylene Chloride
Concen: Below Cal
RT: 4.616 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

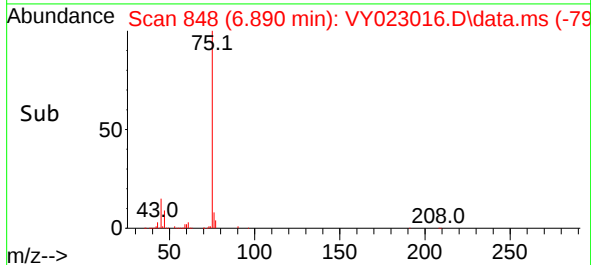
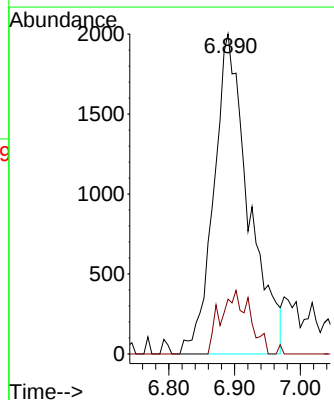
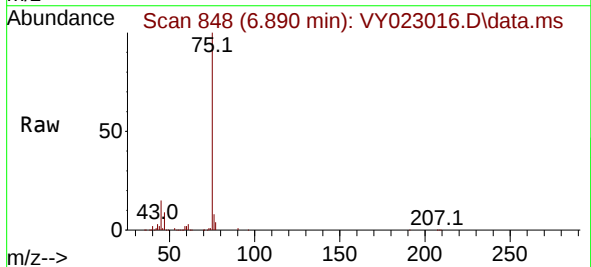
Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

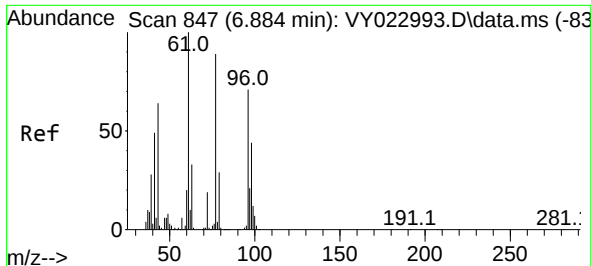
Tgt Ion:	84	Resp:	11901
Ion	Ratio	Lower	Upper
84	100		
49	115.2	98.2	147.4
51	43.5	30.5	45.7
86	52.0	51.3	76.9



#25
2-Butanone
Concen: 8.401 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion:	43	Resp:	7358
Ion	Ratio	Lower	Upper
43	100		
72	17.1	22.9	34.3#





#26

2,2-Dichloropropane

Concen: 1.601 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.000 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

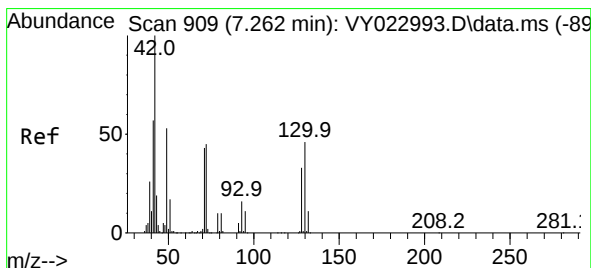
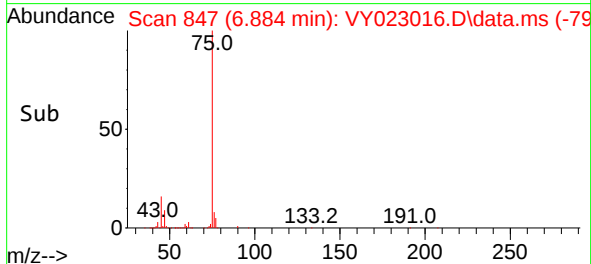
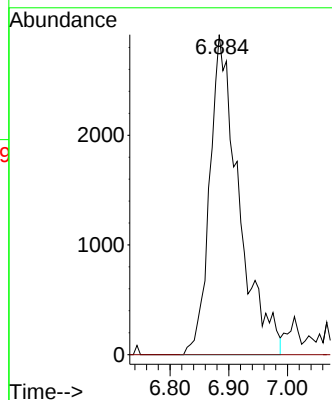
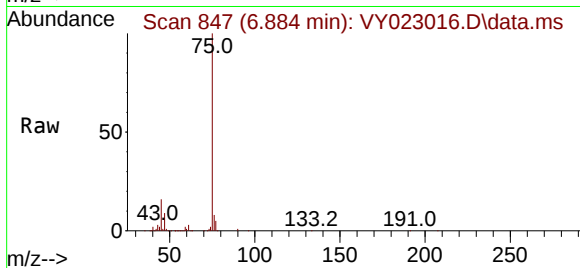
VY0721SBL01

Tgt Ion: 77 Resp: 10069

Ion Ratio Lower Upper

77 100

97 0.0 11.3 33.9#



#29

Tetrahydrofuran

Concen: 1.224 ug/l

RT: 7.262 min Scan# 909

Delta R.T. -0.000 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

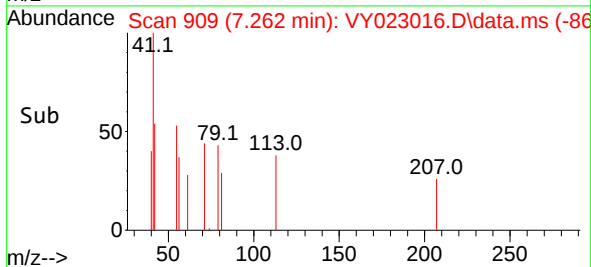
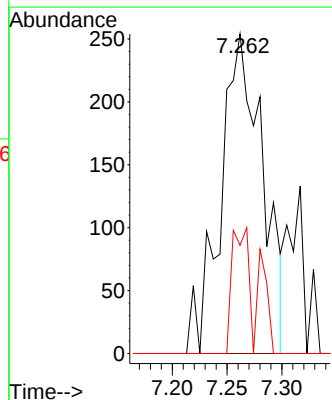
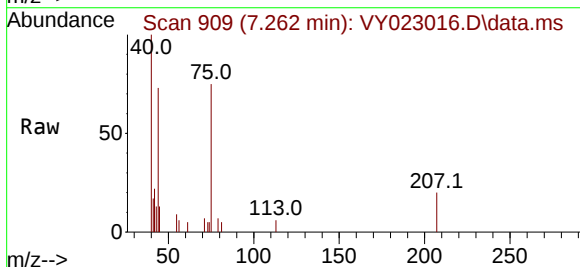
Tgt Ion: 42 Resp: 679

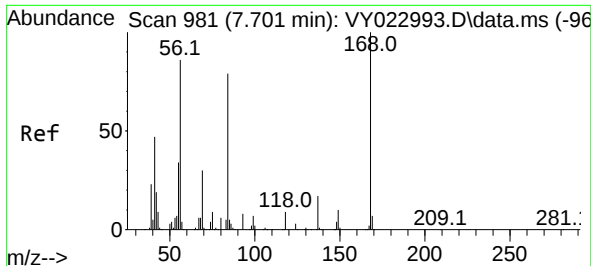
Ion Ratio Lower Upper

42 100

72 0.0 37.5 56.3#

71 15.3 34.2 51.4#

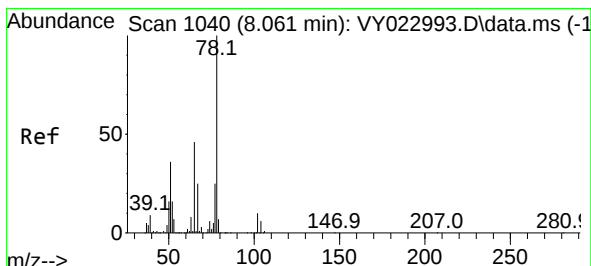
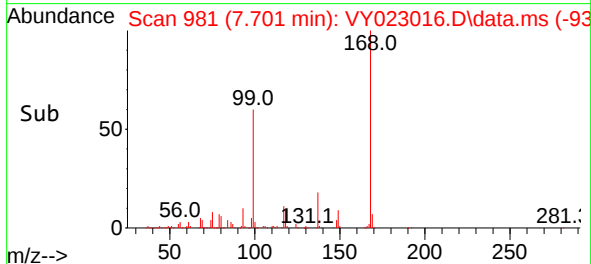
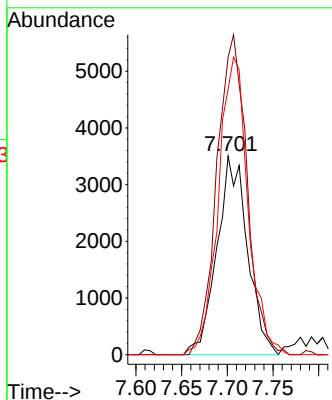
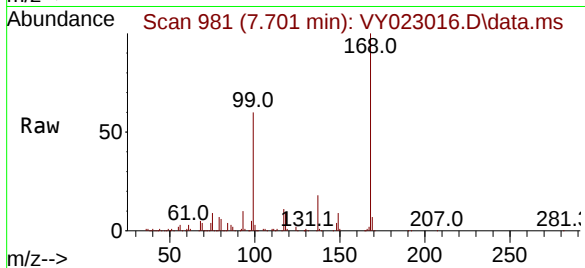




#31
Cyclohexane
Concen: 1.216 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

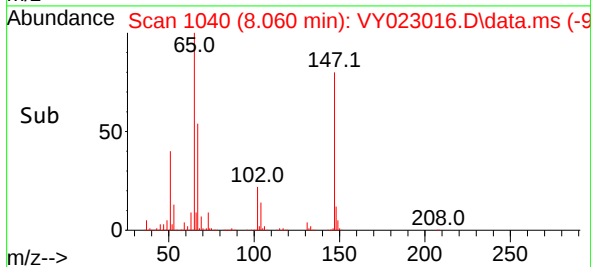
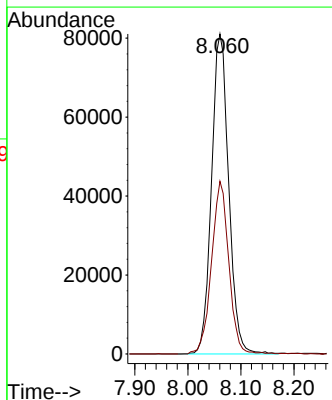
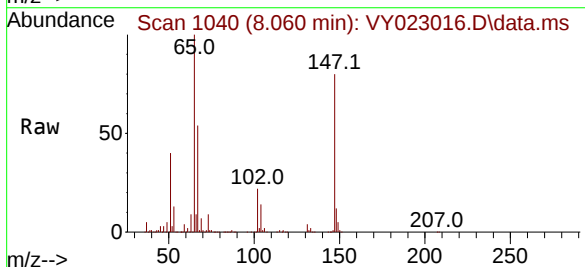
Instrument :
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VY0721SBL01

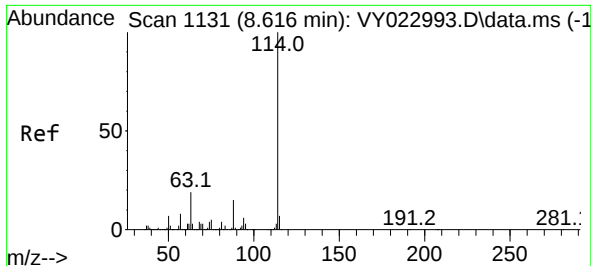
Tgt Ion: 56 Resp: 8154
Ion Ratio Lower Upper
56 100
69 149.8 28.1 42.1#
84 133.7 73.5 110.3#



#33
1,2-Dichloroethane-d4
Concen: 54.044 ug/l
RT: 8.060 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion: 65 Resp: 182021
Ion Ratio Lower Upper
65 100
67 54.4 0.0 107.4

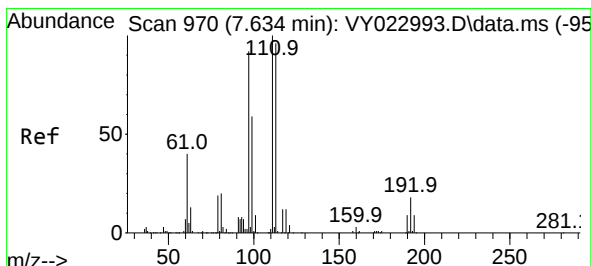
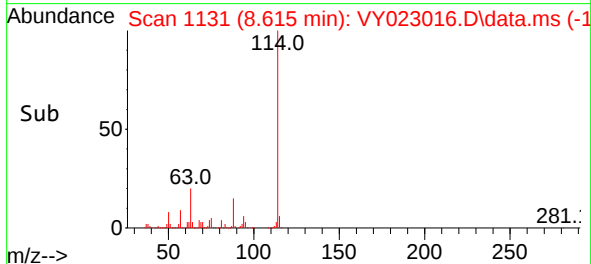
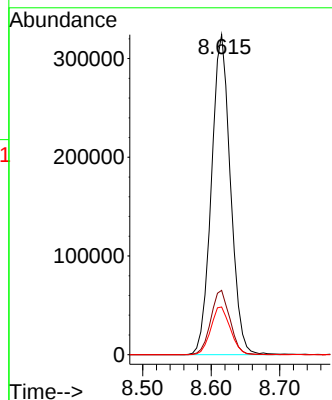
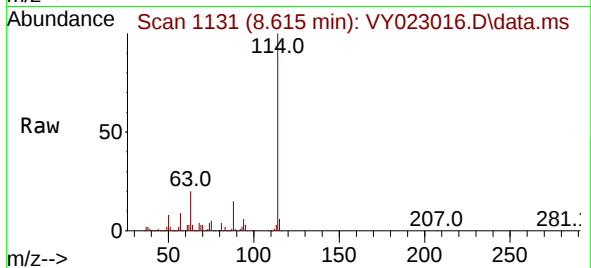




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

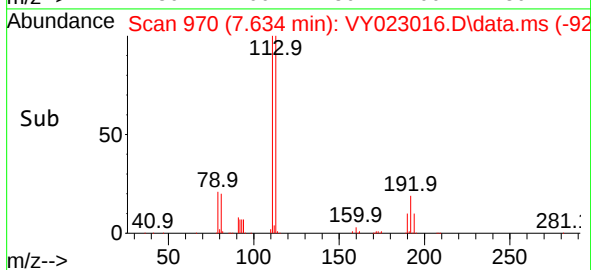
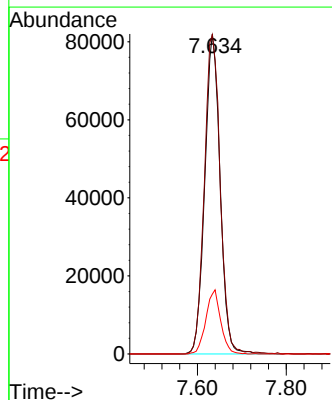
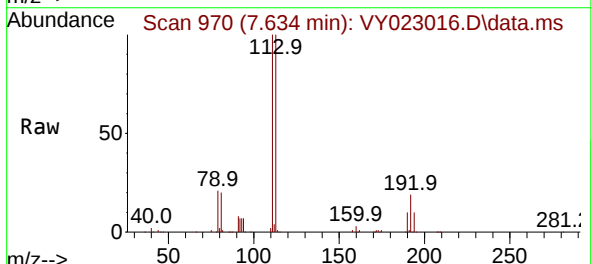
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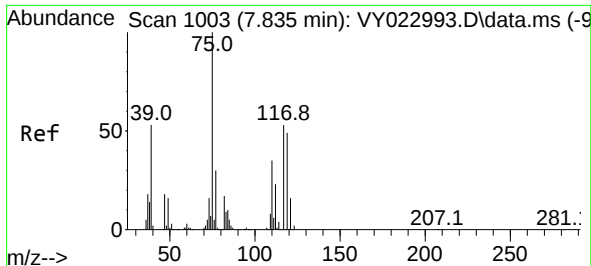
Tgt Ion:114 Resp: 625866
Ion Ratio Lower Upper
114 100
63 20.1 0.0 38.8
88 14.9 0.0 30.2



#35
Dibromofluoromethane
Concen: 49.568 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion:113 Resp: 196791
Ion Ratio Lower Upper
113 100
111 103.4 83.2 124.8
192 19.4 15.3 22.9

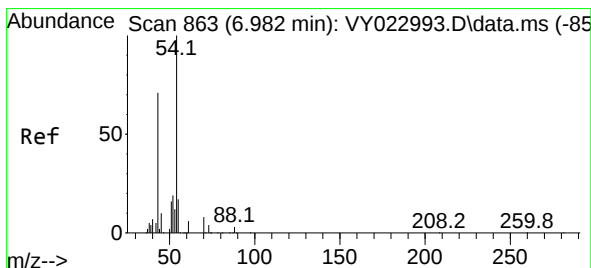
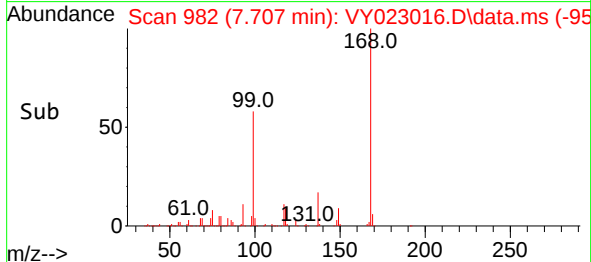
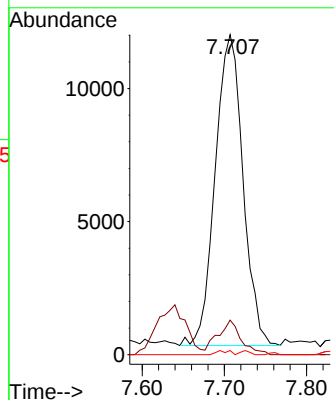
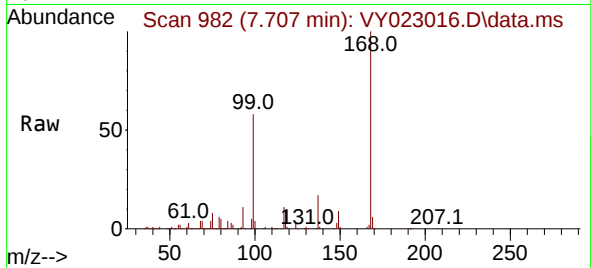




#36
 1,1-Dichloropropene
 Concen: 4.391 ug/l
 RT: 7.707 min Scan# 91
 Delta R.T. -0.128 min
 Lab File: VY023016.D
 Acq: 21 Jul 2025 10:39

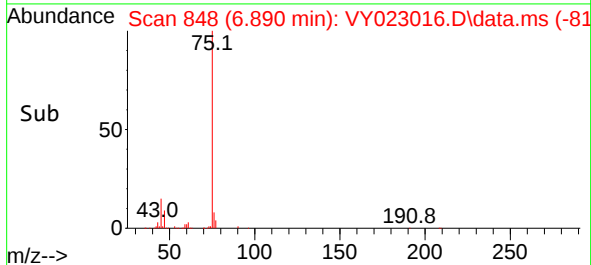
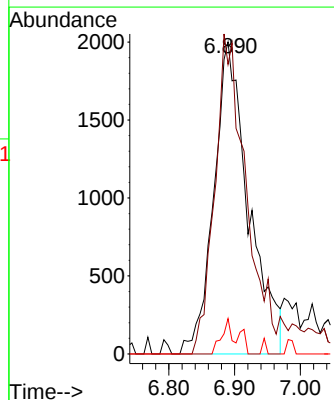
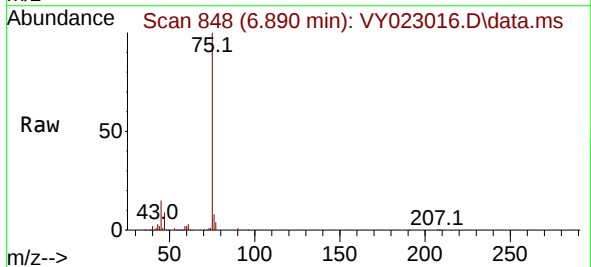
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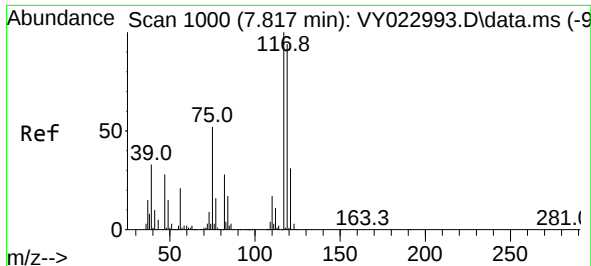
Tgt Ion: 75 Resp: 27460
 Ion Ratio Lower Upper
 75 100
 110 9.3 17.3 51.9#
 77 0.6 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 3.168 ug/l
 RT: 6.890 min Scan# 848
 Delta R.T. -0.092 min
 Lab File: VY023016.D
 Acq: 21 Jul 2025 10:39

Tgt Ion: 43 Resp: 7358
 Ion Ratio Lower Upper
 43 100
 61 91.8 11.6 17.4#
 70 3.4 8.5 12.7#

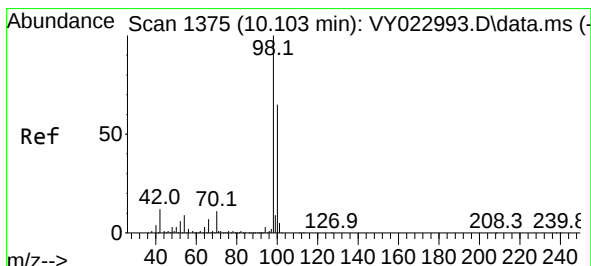
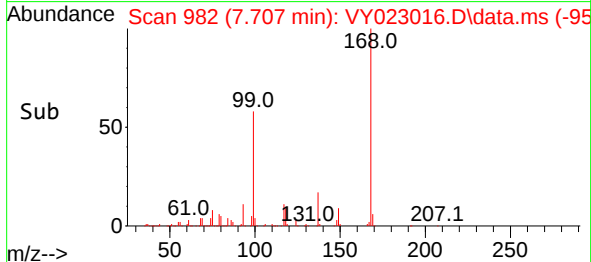
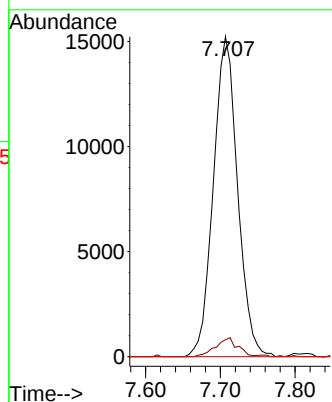
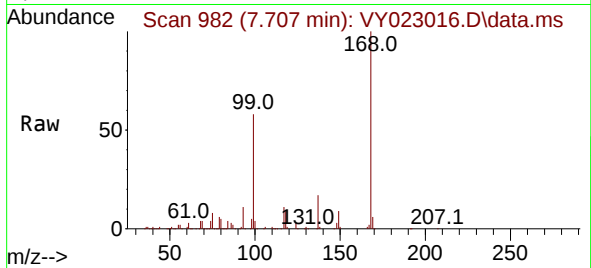




#38
Carbon Tetrachloride
Concen: 5.037 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

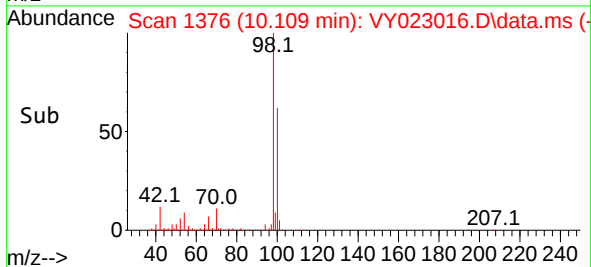
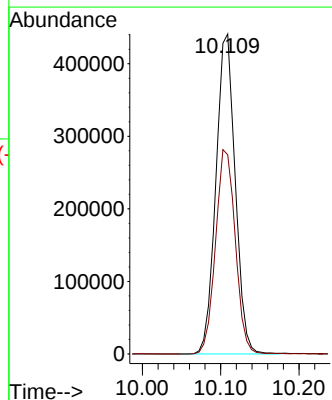
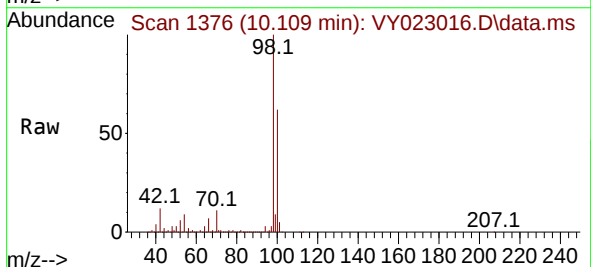
Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

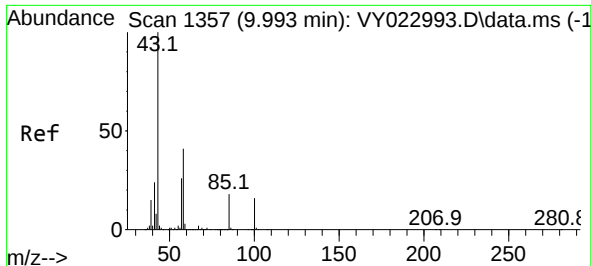
Tgt Ion:117 Resp: 34223
Ion Ratio Lower Upper
117 100
119 5.3 74.9 112.3#
121 0.0 24.6 37.0#



#50
Toluene-d8
Concen: 48.040 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion: 98 Resp: 756332
Ion Ratio Lower Upper
98 100
100 65.3 52.2 78.2

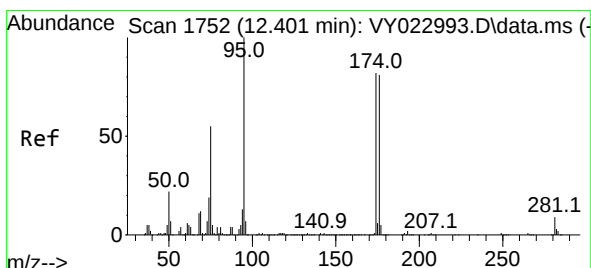
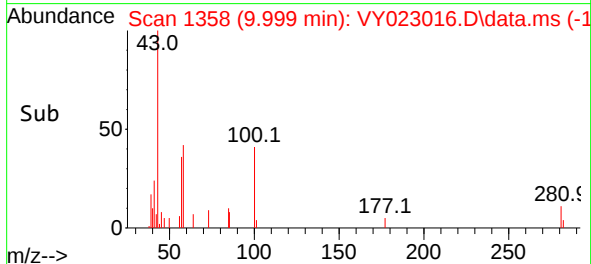
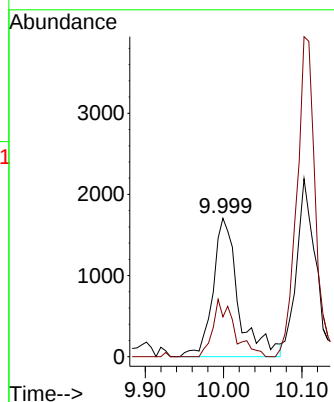
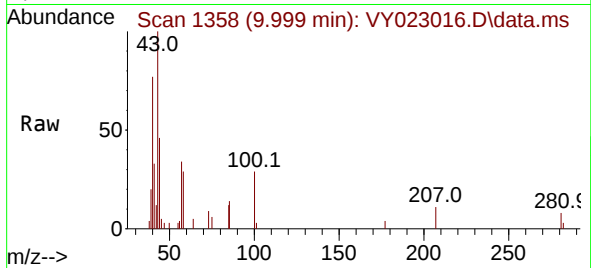




#51
4-Methyl-2-Pentanone
Concen: 1.655 ug/l
RT: 9.999 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

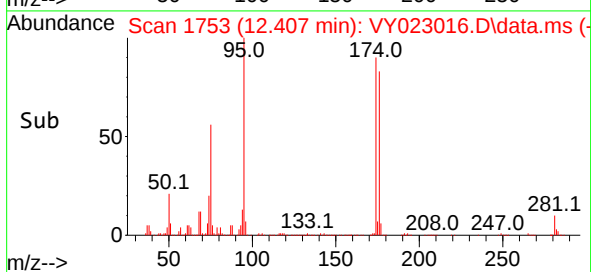
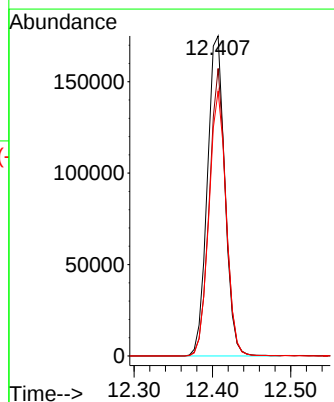
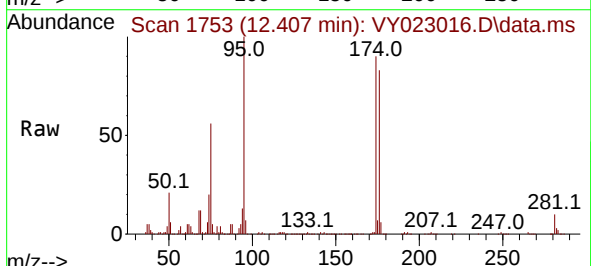
Instrument :
MSVOA_Y
ClientSampleId :
VY0721SBL01

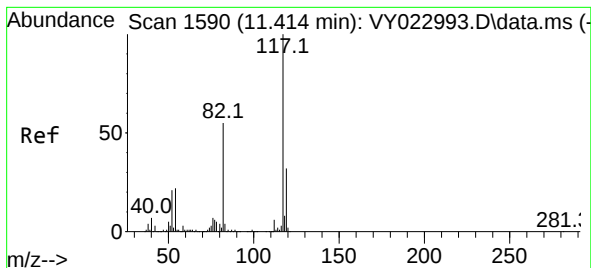
Tgt Ion: 43 Resp: 3876
Ion Ratio Lower Upper
43 100
58 34.7 32.5 48.7



#62
4-Bromofluorobenzene
Concen: 54.716 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023016.D
Acq: 21 Jul 2025 10:39

Tgt Ion: 95 Resp: 271169
Ion Ratio Lower Upper
95 100
174 84.6 0.0 170.8
176 81.4 0.0 163.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.413 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

VY0721SBL01

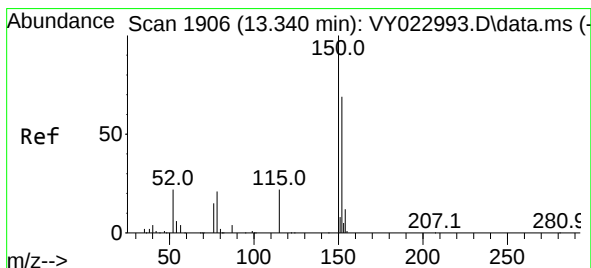
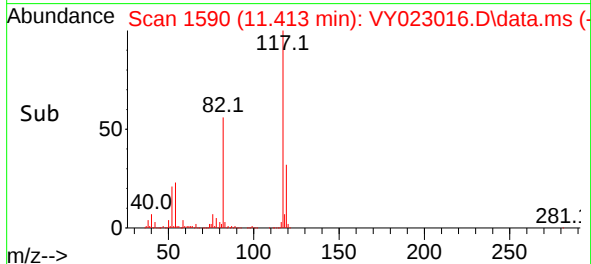
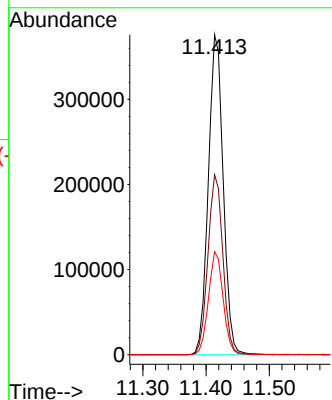
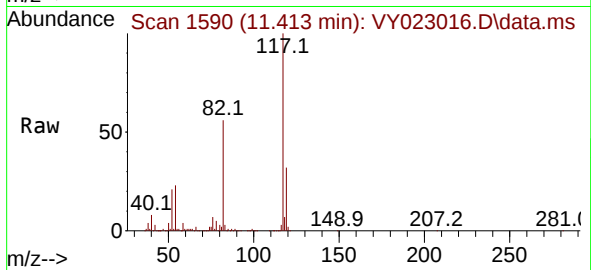
Tgt Ion:117 Resp: 615563

Ion Ratio Lower Upper

117 100

82 56.3 44.3 66.5

119 32.2 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

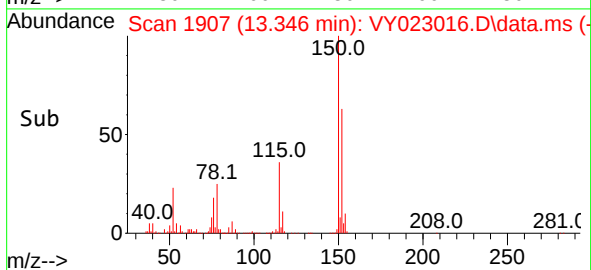
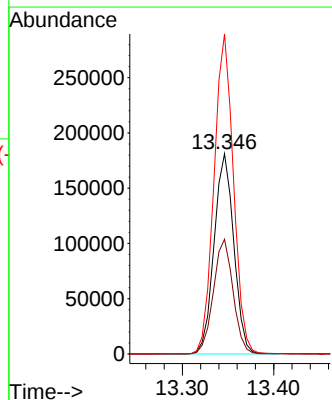
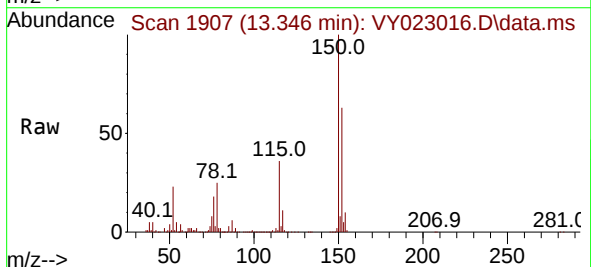
Tgt Ion:152 Resp: 271493

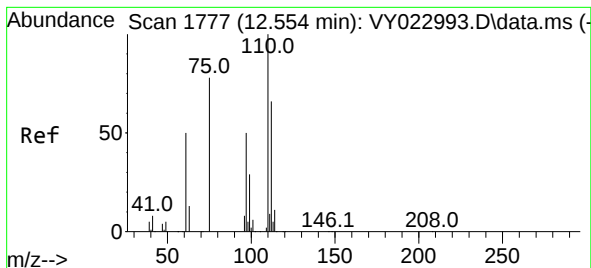
Ion Ratio Lower Upper

152 100

115 57.2 29.4 88.2

150 157.4 0.0 350.0





#76

1,2,3-Trichloropropane

Concen: 44.330 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.147 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

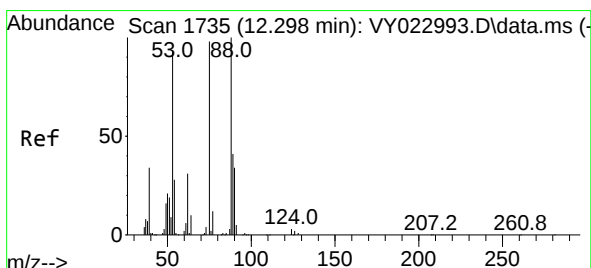
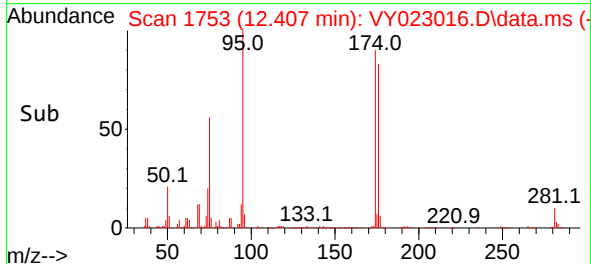
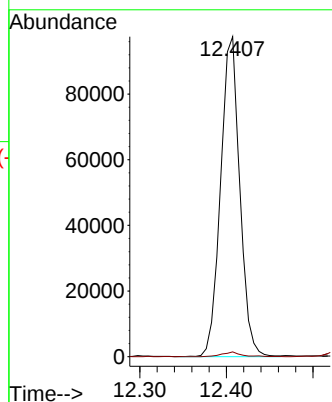
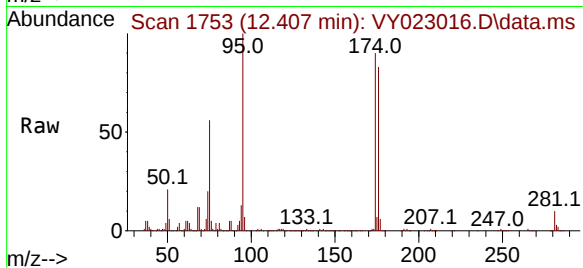
VY0721SBL01

Tgt Ion: 75 Resp: 149970

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 132.036 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.109 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

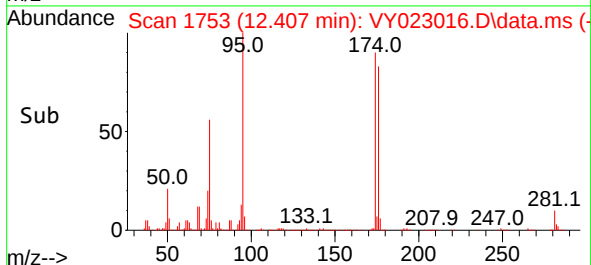
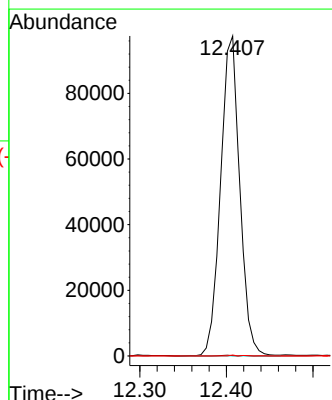
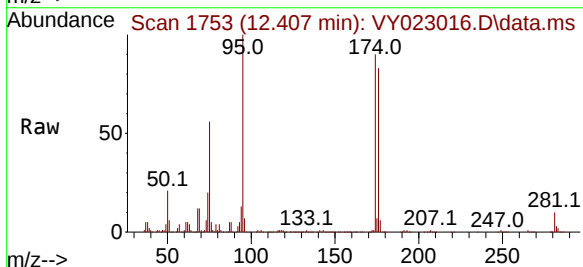
Tgt Ion: 75 Resp: 149970

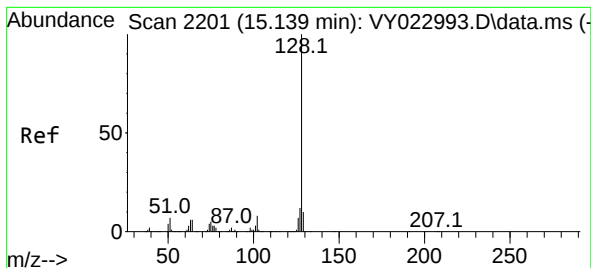
Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.1 36.1 54.1#





#95

Naphthalene

Concen: 1.238 ug/l

RT: 15.145 min Scan# 21

Delta R.T. 0.006 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

Instrument :

MSVOA_Y

ClientSampleId :

VY0721SBL01

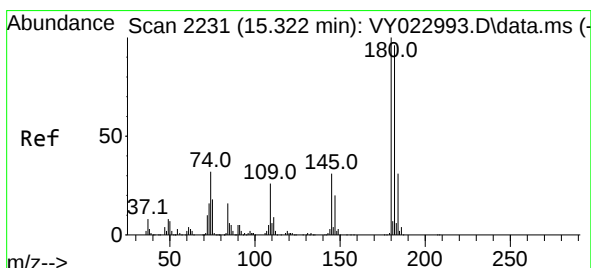
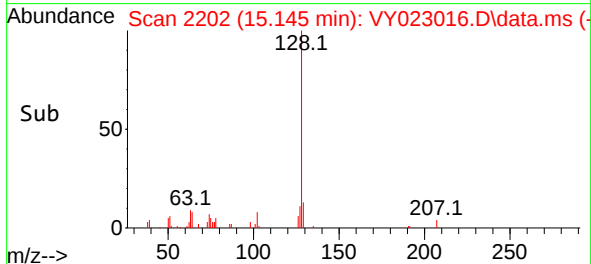
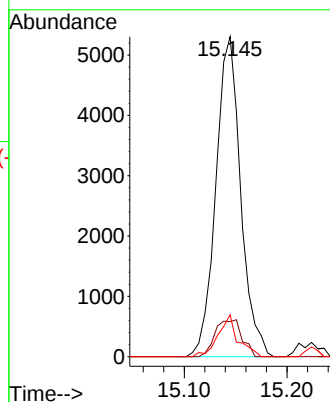
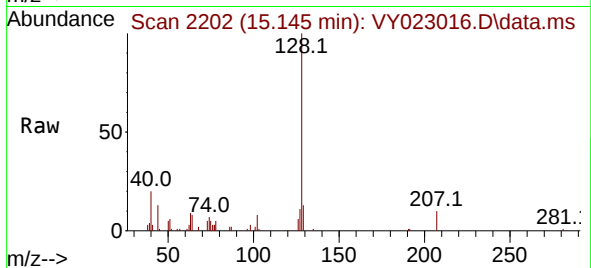
Tgt Ion:128 Resp: 8894

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

129 10.4 8.6 12.8



#96

1,2,3-Trichlorobenzene

Concen: 1.003 ug/l

RT: 15.327 min Scan# 2232

Delta R.T. 0.006 min

Lab File: VY023016.D

Acq: 21 Jul 2025 10:39

Tgt Ion:180 Resp: 3708

Ion Ratio Lower Upper

180 100

182 99.8 47.3 142.0

145 38.7 15.8 47.4

