

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080323\
 Data File : VY014961.D
 Acq On : 03 Aug 2023 20:10
 Operator : SY/MD
 Sample : 03900-01
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 31464

Quant Time: Aug 04 04:34:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

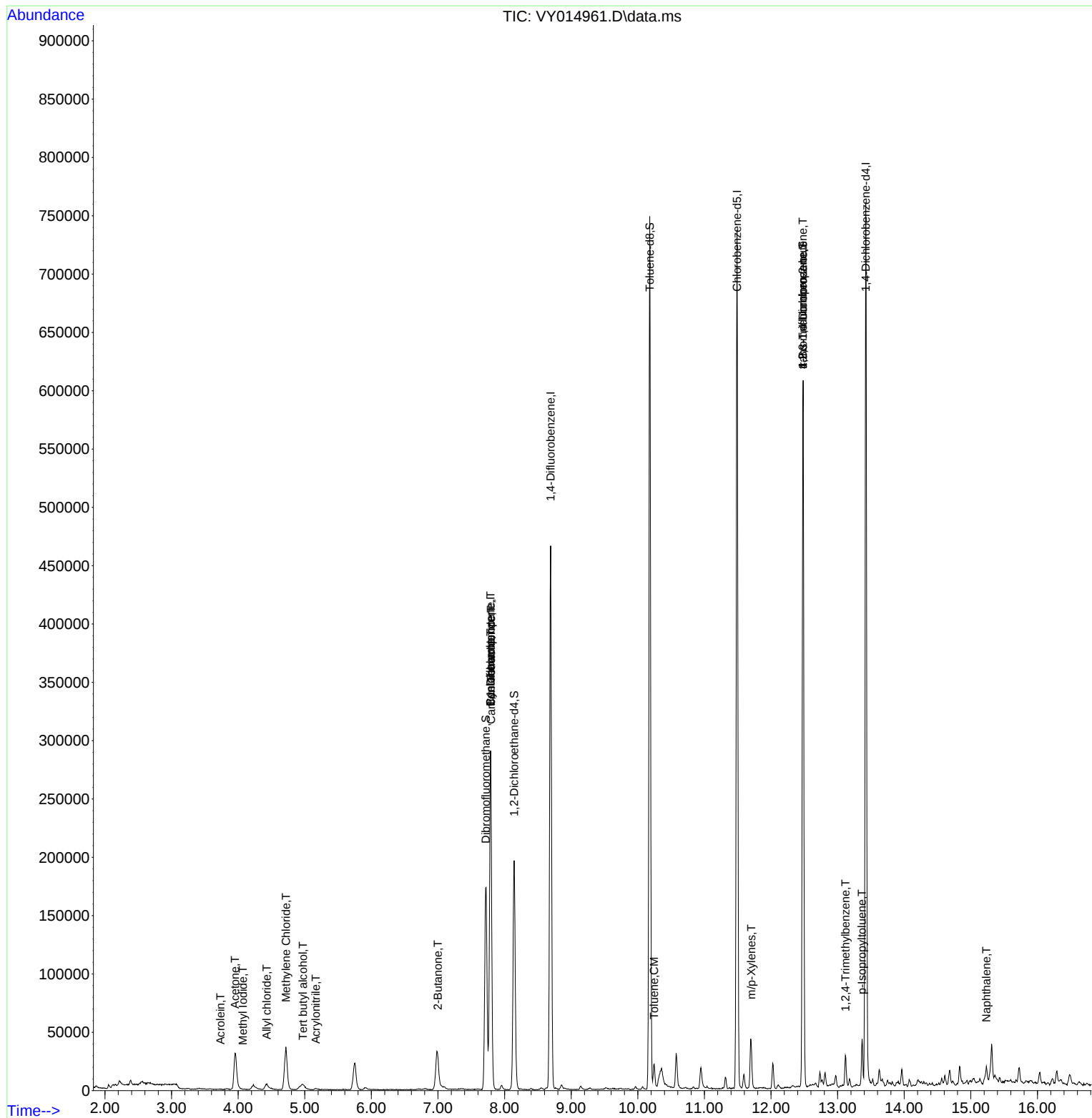
Internal Standards						
1) Pentafluorobenzene	7.789	168	219672	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	395802	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	393370	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	187823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	147098	58.763	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 117.520%	
35) Dibromofluoromethane	7.716	113	126112	50.053	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.100%	
50) Toluene-d8	10.179	98	476633	51.311	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.620%	
62) 4-Bromofluorobenzene	12.477	95	183467	51.509	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 103.020%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.070	142	52	2.390	ug/l #	38
11) Tert butyl alcohol	4.972	59	11418	10.174	ug/l	99
13) Acrolein	3.735	56	287	1.097	ug/l #	80
14) Allyl chloride	4.430	41	9374	2.441	ug/l #	39
15) Acrylonitrile	5.167	53	1281	1.653	ug/l #	81
16) Acetone	3.954	43	59207	74.639	ug/l	99
20) Methylene Chloride	4.716	84	26102	6.451	ug/l	96
25) 2-Butanone	6.996	43	18830	16.226	ug/l	96
31) Cyclohexane	7.789	56	4667	1.123	ug/l #	1
36) 1,1-Dichloropropene	7.789	75	17173	4.558	ug/l #	51
38) Carbon Tetrachloride	7.795	117	22447	5.636	ug/l #	15
52) Toluene	10.246	92	8271	1.206	ug/l	98
68) m/p-Xylenes	11.703	106	12701	2.198	ug/l	96
76) 1,2,3-Trichloropropane	12.477	75	98004	41.314	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	98004	79.992	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	15274	1.267	ug/l	96
86) p-Isopropyltoluene	13.367	119	21459	1.644	ug/l	98
95) Naphthalene	15.233	128	11262	1.272	ug/l	96

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

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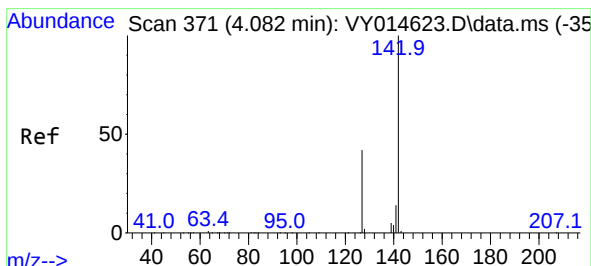
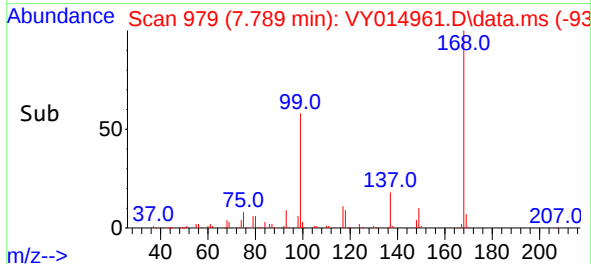
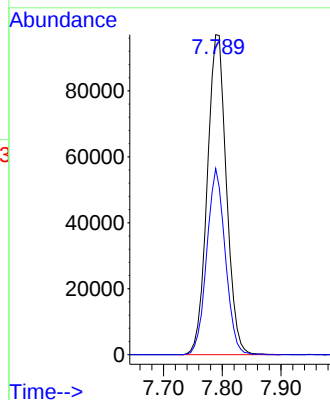
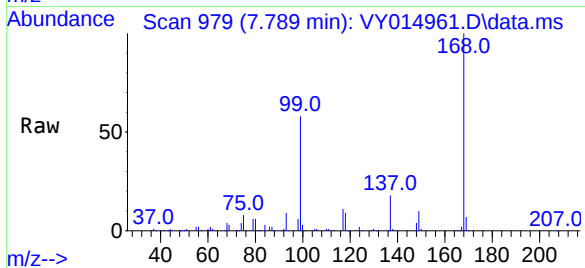




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

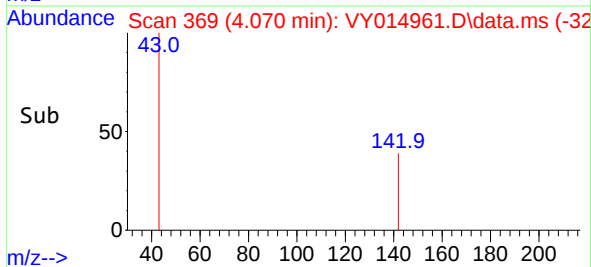
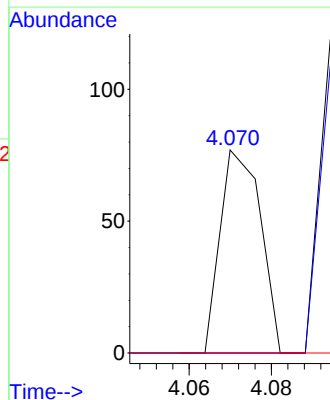
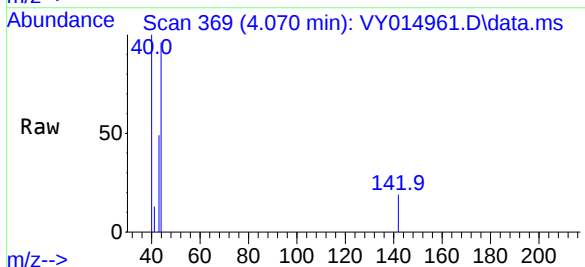
Instrument :
MSVOA_Y
ClientSampleId :
31464

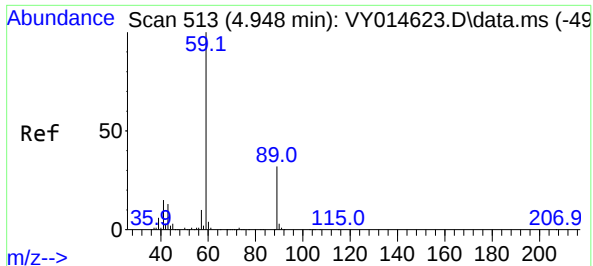
Tgt Ion:168 Resp: 219672
Ion Ratio Lower Upper
168 100
99 58.2 43.4 65.0



#10
Methyl Iodide
Concen: 2.390 ug/l
RT: 4.070 min Scan# 369
Delta R.T. -0.012 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion:142 Resp: 52
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: 10.174 ug/l

RT: 4.972 min Scan# 51

Delta R.T. 0.024 min

Lab File: VY014961.D

Acq: 03 Aug 2023 20:10

Instrument :

MSVOA_Y

ClientSampleId :

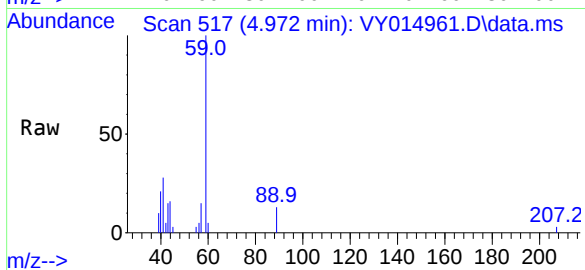
31464

Tgt Ion: 59 Resp: 11418

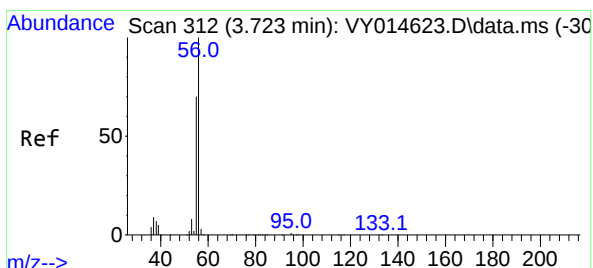
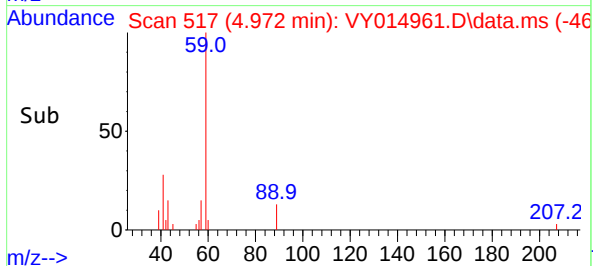
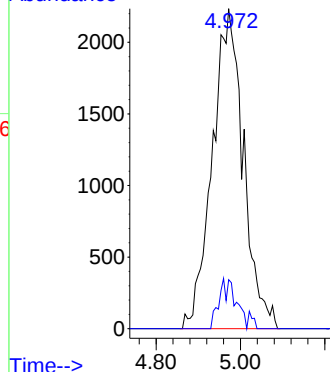
Ion Ratio Lower Upper

59 100

57 3.9 3.0 4.4



Abundance



#13

Acrolein

Concen: 1.097 ug/l

RT: 3.735 min Scan# 314

Delta R.T. 0.012 min

Lab File: VY014961.D

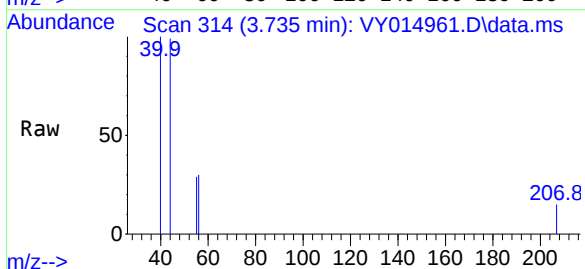
Acq: 03 Aug 2023 20:10

Tgt Ion: 56 Resp: 287

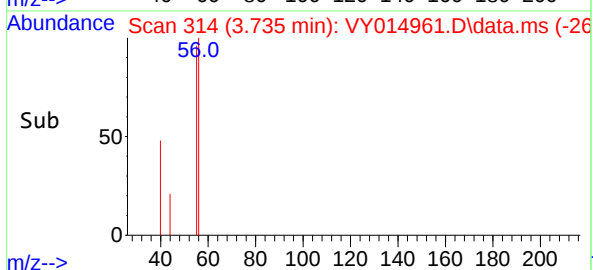
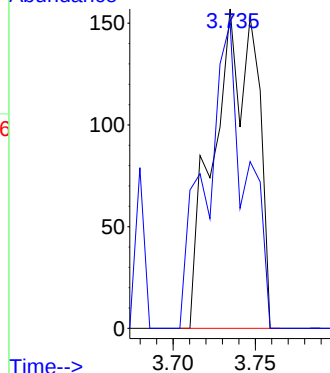
Ion Ratio Lower Upper

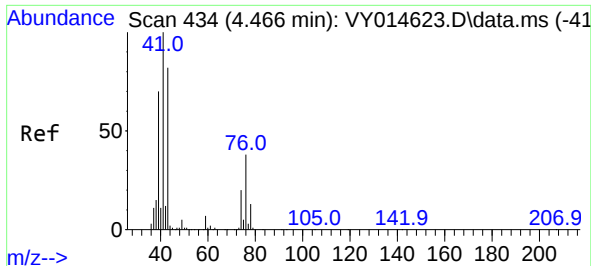
56 100

55 88.2 57.0 85.4#



Abundance

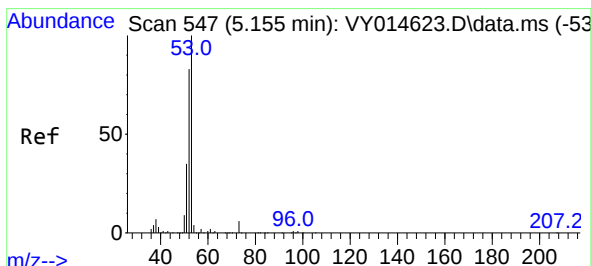
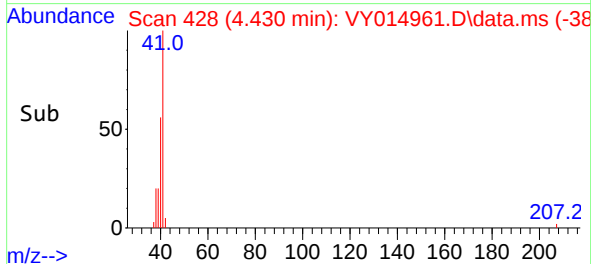
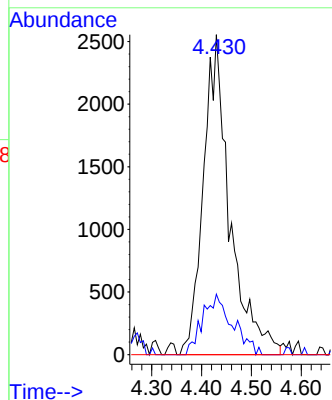
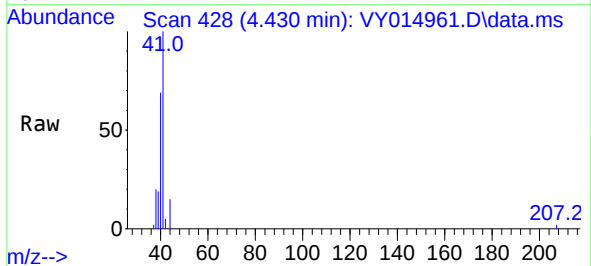




#14
 Allyl chloride
 Concen: 2.441 ug/l
 RT: 4.430 min Scan# 41
 Delta R.T. -0.036 min
 Lab File: VY014961.D
 Acq: 03 Aug 2023 20:10

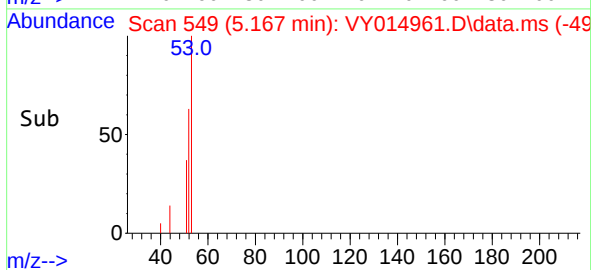
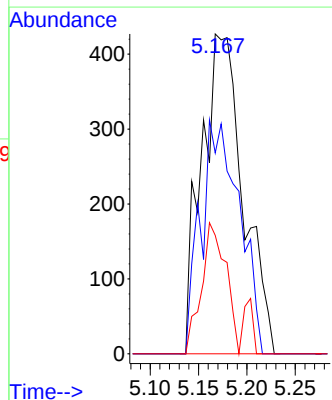
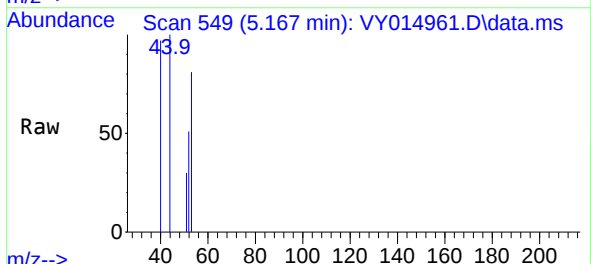
Instrument :
 MSVOA_Y
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 31464

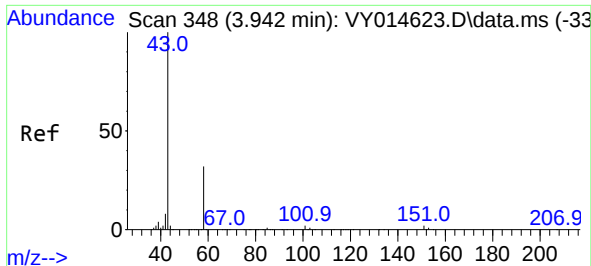
Tgt Ion: 41 Resp: 9374
 Ion Ratio Lower Upper
 41 100
 39 21.4 58.0 87.0#
 76 0.0 27.4 41.2#



#15
 Acrylonitrile
 Concen: 1.653 ug/l
 RT: 5.167 min Scan# 549
 Delta R.T. 0.012 min
 Lab File: VY014961.D
 Acq: 03 Aug 2023 20:10

Tgt Ion: 53 Resp: 1281
 Ion Ratio Lower Upper
 53 100
 52 67.7 66.9 100.3
 51 24.0 29.8 44.6#

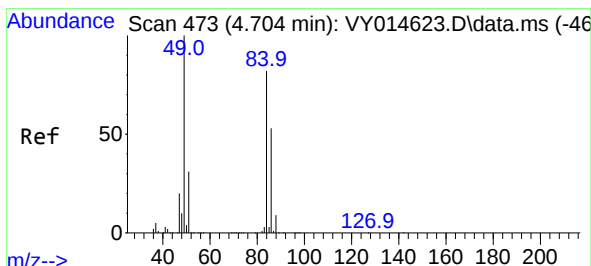
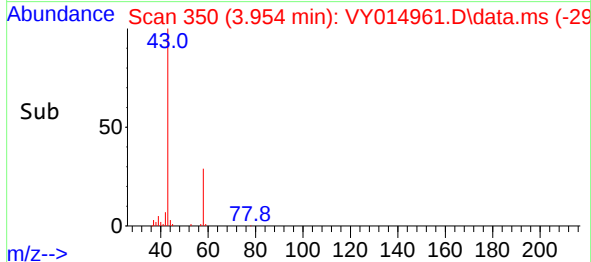
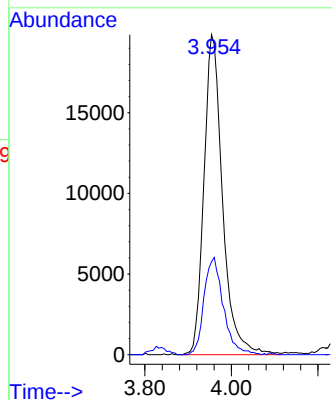
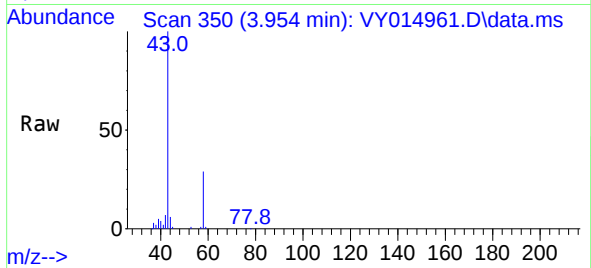




#16
Acetone
Concen: 74.639 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

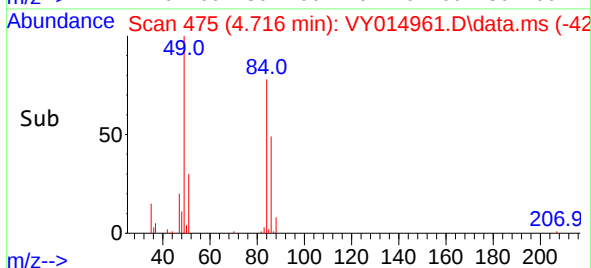
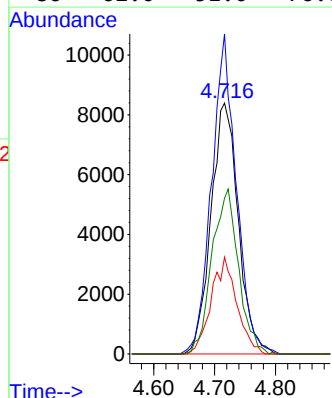
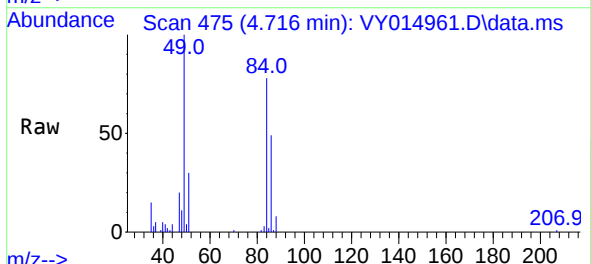
Instrument :
MSVOA_Y
ClientSampleId :
31464

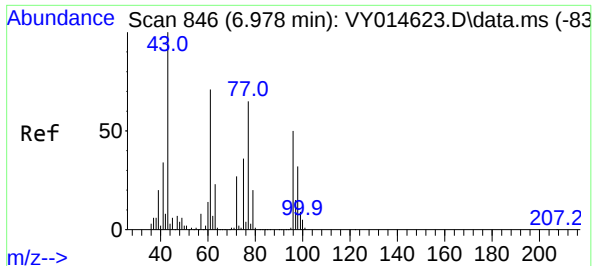
Tgt Ion: 43 Resp: 59207
Ion Ratio Lower Upper
43 100
58 29.1 22.7 34.1



#20
Methylene Chloride
Concen: 6.451 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion: 84 Resp: 26102
Ion Ratio Lower Upper
84 100
49 127.5 106.9 160.3
51 38.6 33.2 49.8
86 62.0 51.0 76.6

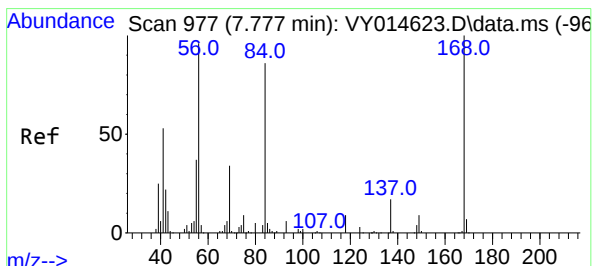
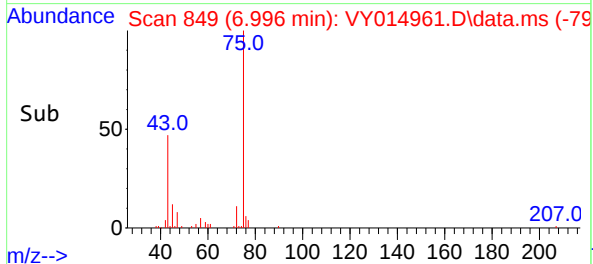
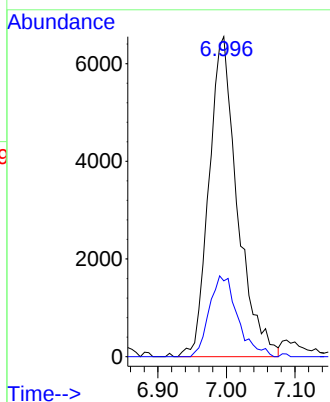
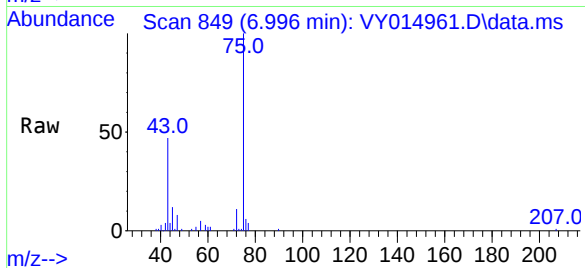




#25
2-Butanone
Concen: 16.226 ug/l
RT: 6.996 min Scan# 846
Delta R.T. 0.018 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

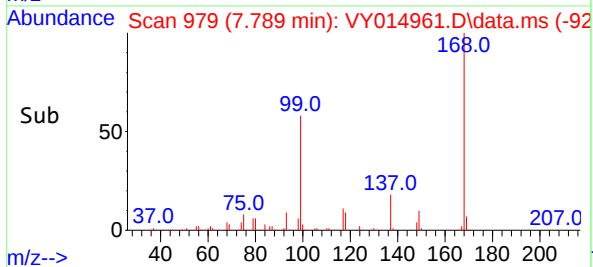
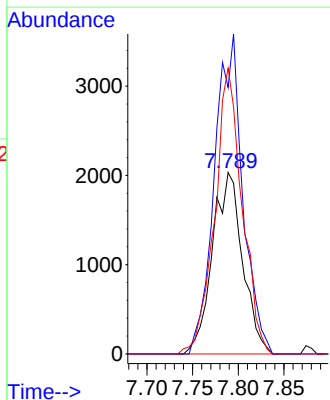
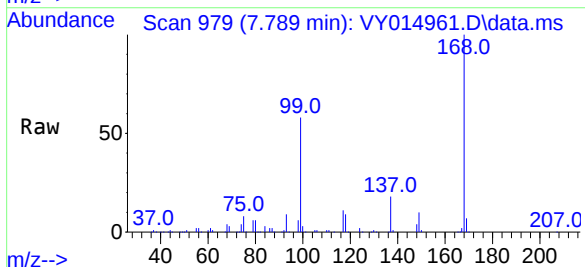
Instrument :
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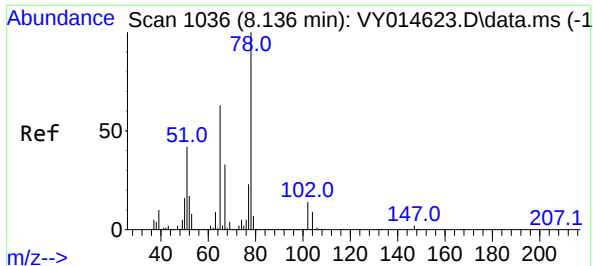
Tgt Ion: 43 Resp: 18830
Ion Ratio Lower Upper
43 100
72 23.7 20.5 30.7



#31
Cyclohexane
Concen: 1.123 ug/l
RT: 7.789 min Scan# 979
Delta R.T. 0.012 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion: 56 Resp: 4667
Ion Ratio Lower Upper
56 100
69 146.9 27.8 41.6#
84 157.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 58.763 ug/l

RT: 8.142 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY014961.D

Acq: 03 Aug 2023 20:10

Instrument :

MSVOA_Y

ClientSampleId :

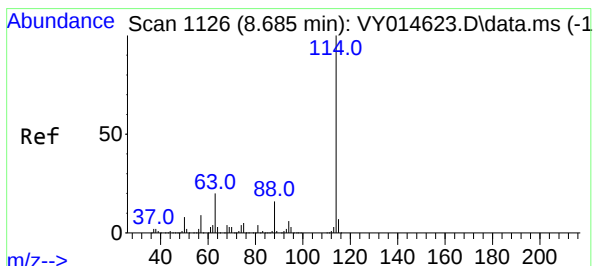
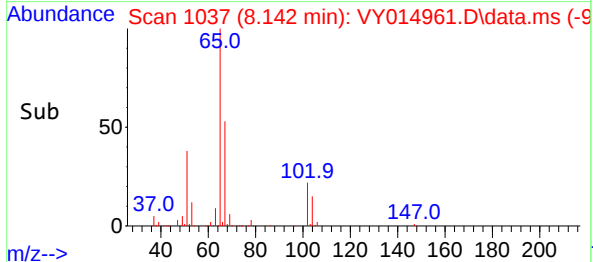
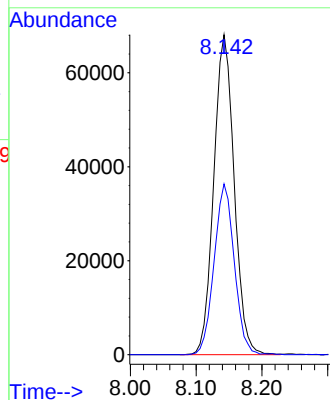
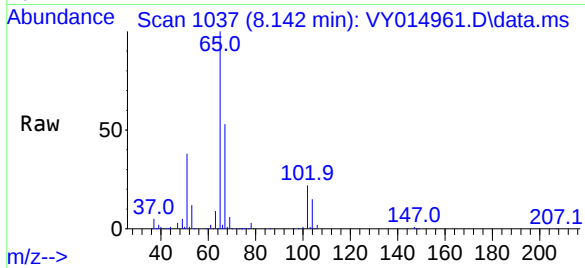
31464

Tgt Ion: 65 Resp: 147098

Ion Ratio Lower Upper

65 100

67 52.8 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY014961.D

Acq: 03 Aug 2023 20:10

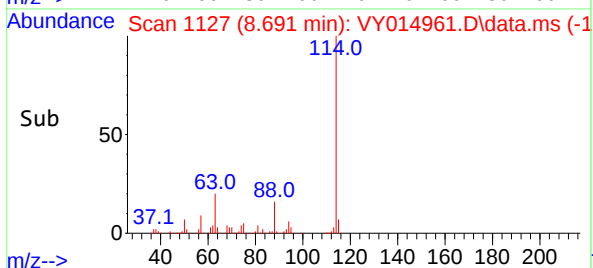
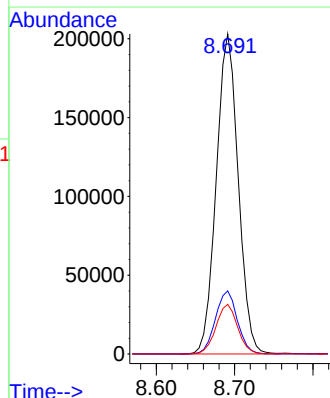
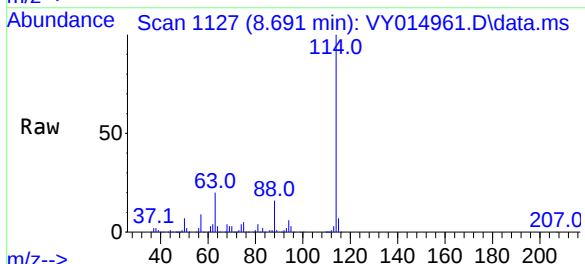
Tgt Ion:114 Resp: 395802

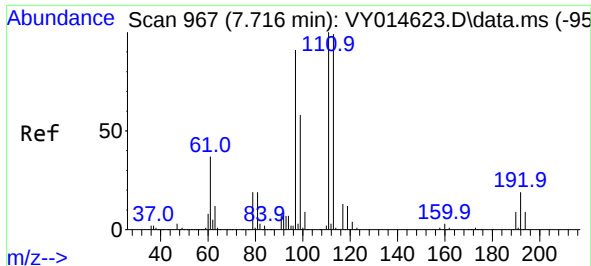
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 15.5 0.0 30.6

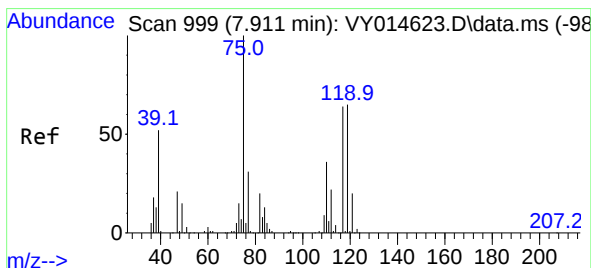
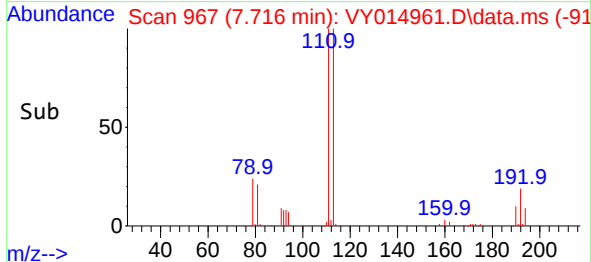
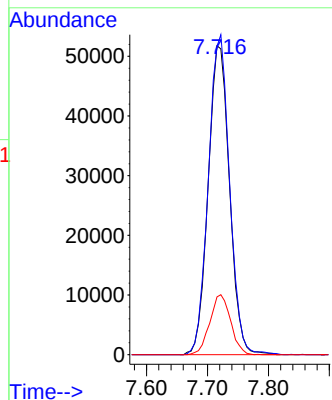
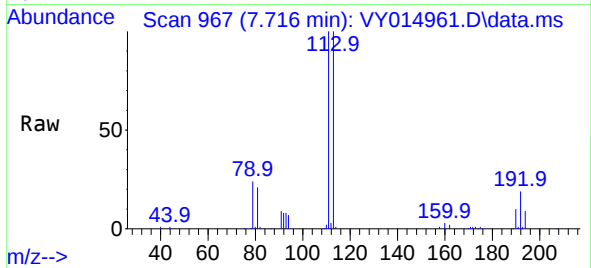




#35
Dibromofluoromethane
Concen: 50.053 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

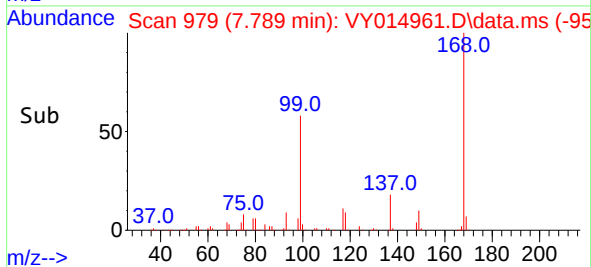
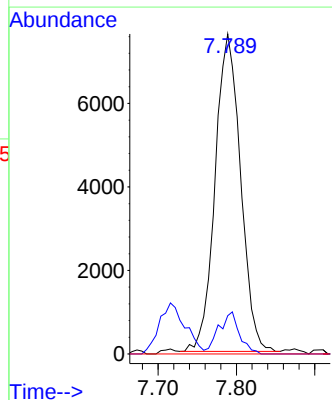
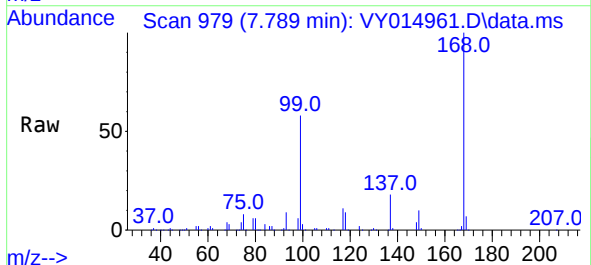
Instrument :
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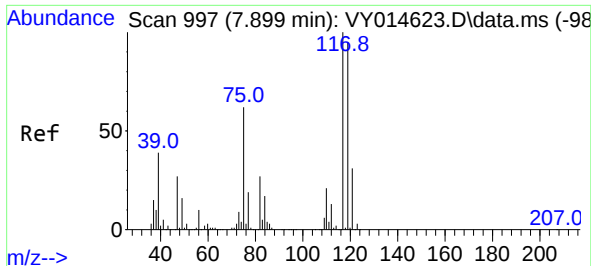
Tgt Ion:113 Resp: 126112
Ion Ratio Lower Upper
113 100
111 102.9 81.3 121.9
192 18.9 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.558 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion: 75 Resp: 17173
Ion Ratio Lower Upper
75 100
110 10.8 17.8 53.5#
77 0.0 24.4 36.6#

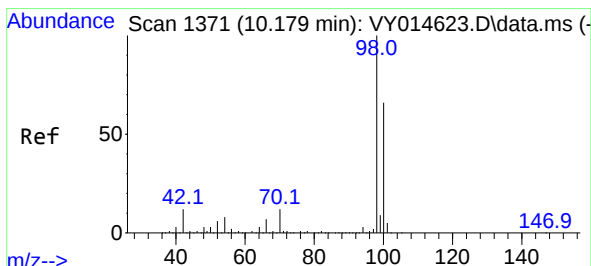
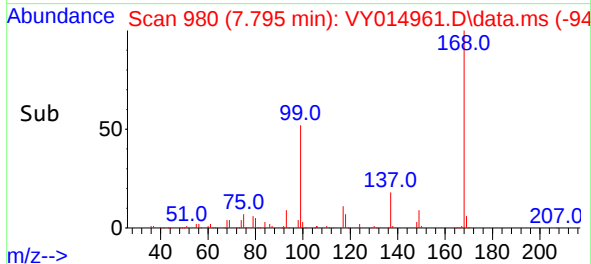
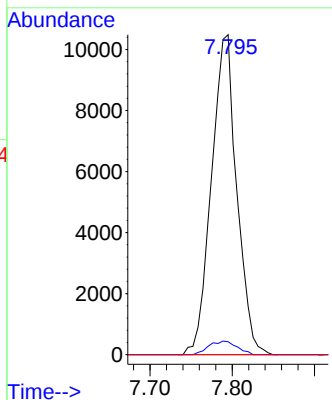
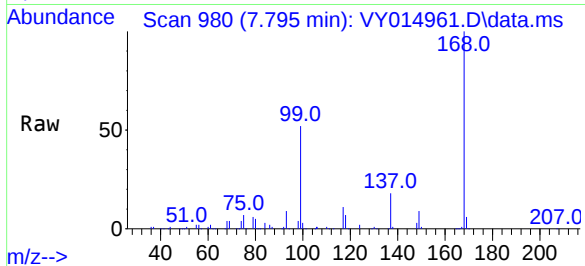




#38
Carbon Tetrachloride
Concen: 5.636 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

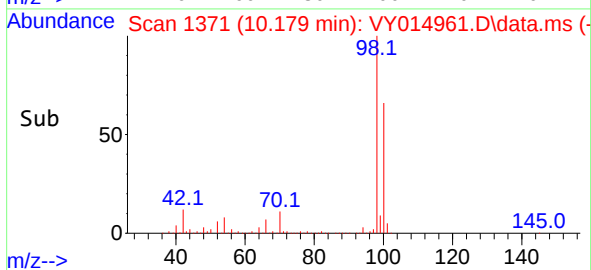
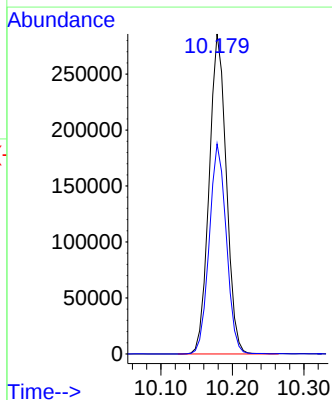
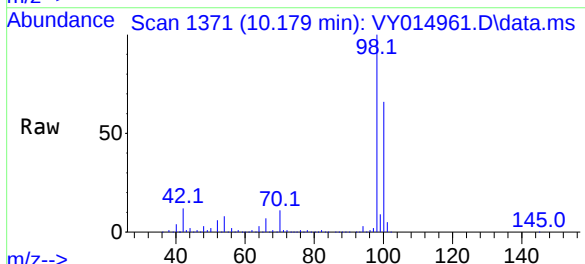
Instrument :
MSVOA_Y
ClientSampleId :
31464

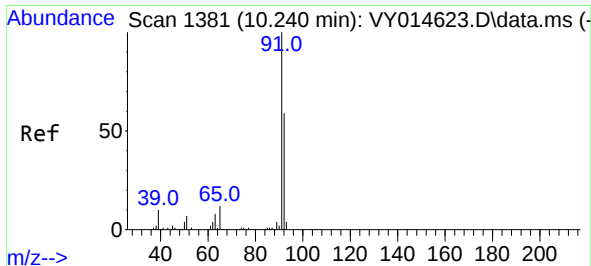
Tgt Ion:117 Resp: 22447
Ion Ratio Lower Upper
117 100
119 4.1 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 51.311 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion: 98 Resp: 476633
Ion Ratio Lower Upper
98 100
100 65.2 50.1 75.1

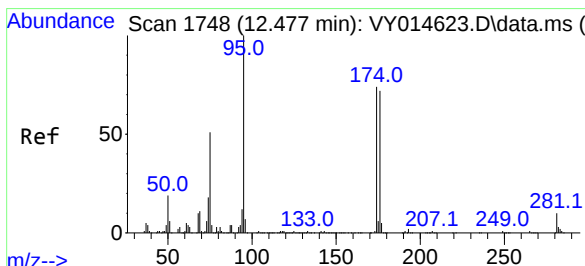
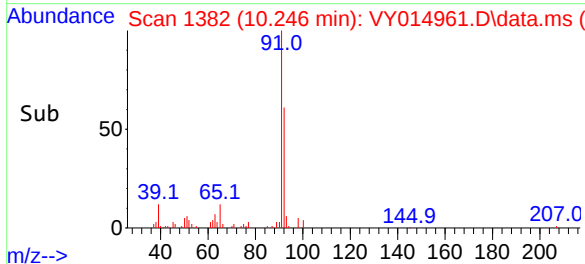
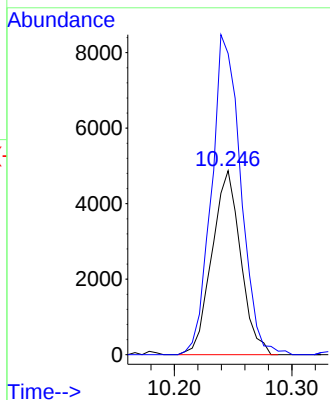
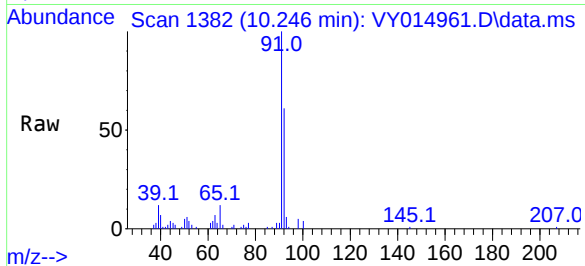




#52
Toluene
Concen: 1.206 ug/l
RT: 10.246 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

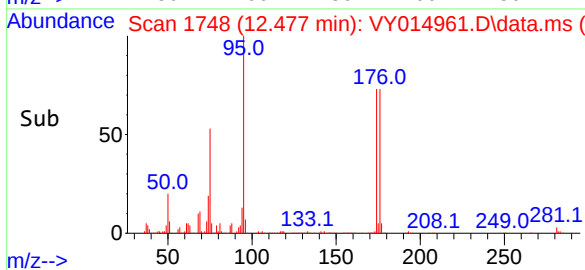
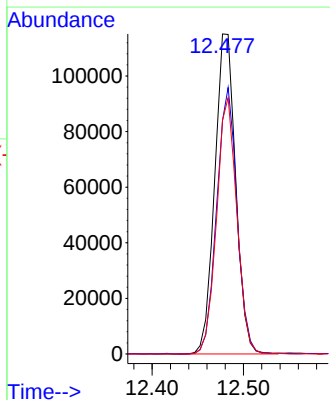
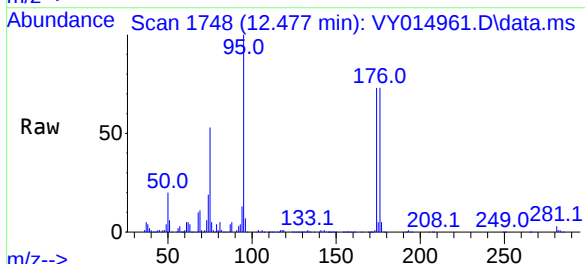
Instrument :
MSVOA_Y
ClientSampleId :
31464

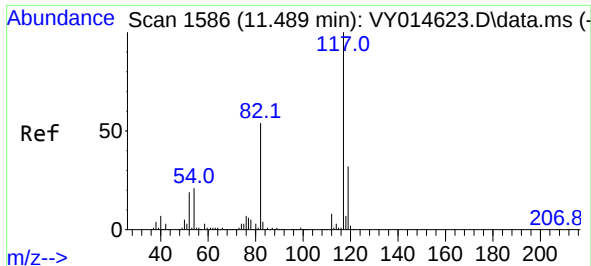
Tgt Ion: 92 Resp: 8271
Ion Ratio Lower Upper
92 100
91 177.4 143.8 215.6



#62
4-Bromofluorobenzene
Concen: 51.509 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

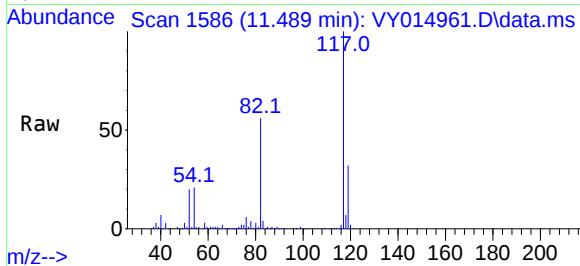
Tgt Ion: 95 Resp: 183467
Ion Ratio Lower Upper
95 100
174 80.5 0.0 178.2
176 77.2 0.0 173.8



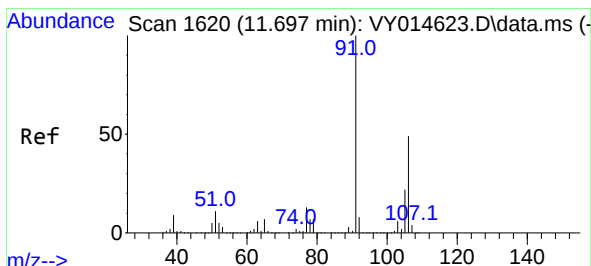
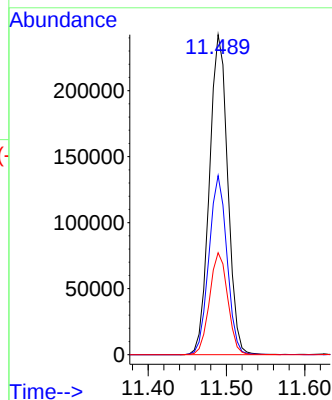
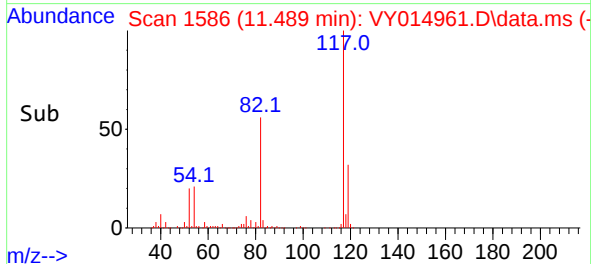


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Instrument :
MSVOA_Y
ClientSampleId :
31464

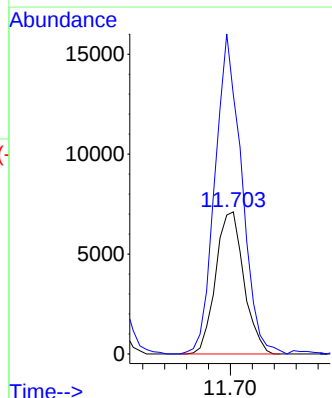
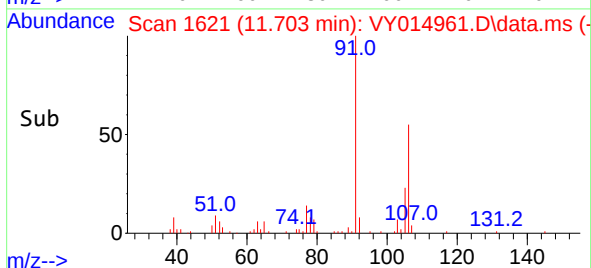
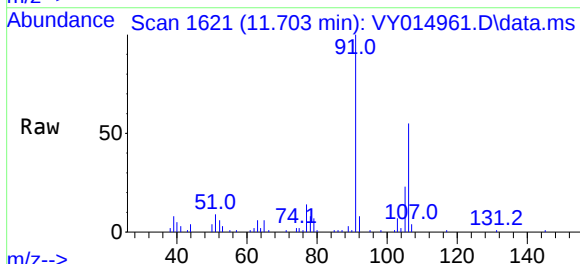


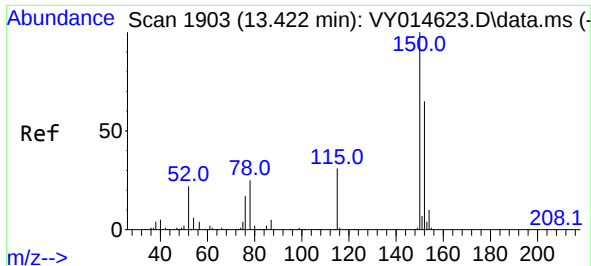
Tgt Ion:117 Resp: 393370
Ion Ratio Lower Upper
117 100
82 55.9 43.4 65.0
119 31.9 26.3 39.5



#68
m/p-Xylenes
Concen: 2.198 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. 0.006 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

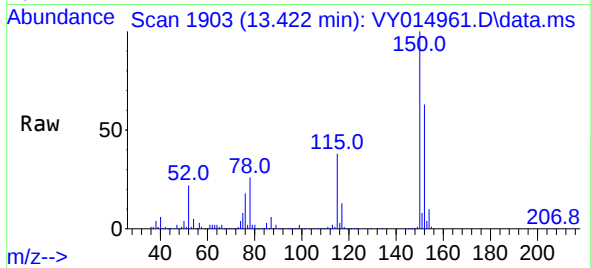
Tgt Ion:106 Resp: 12701
Ion Ratio Lower Upper
106 100
91 213.4 166.1 249.1



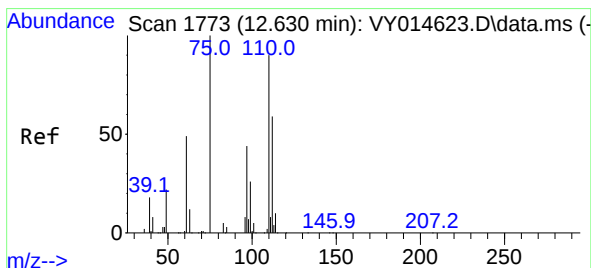
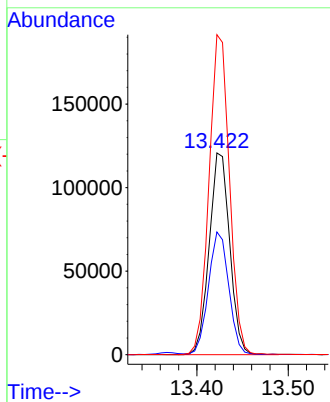
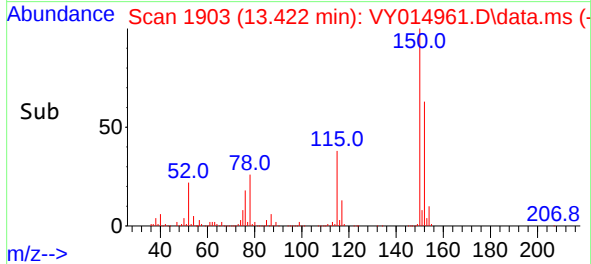


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Instrument :
MSVOA_Y
ClientSampleId :
31464

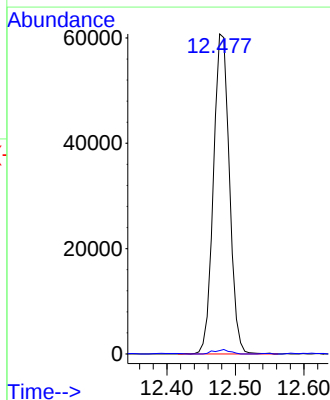
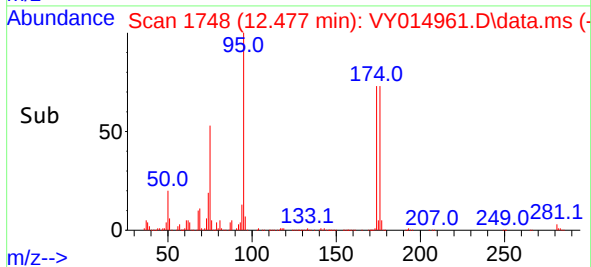
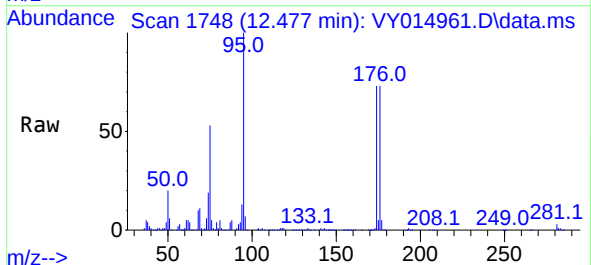


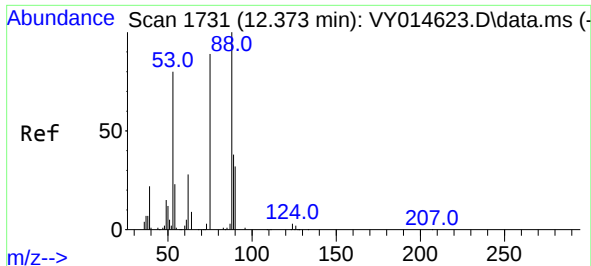
Tgt Ion:152 Resp: 187823
Ion Ratio Lower Upper
152 100
115 60.4 28.8 86.5
150 158.3 0.0 348.8



#76
1,2,3-Trichloropropane
Concen: 41.314 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion: 75 Resp: 98004
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#

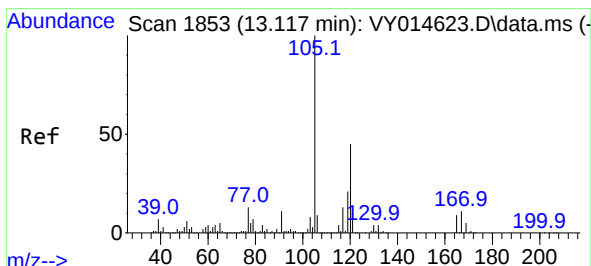
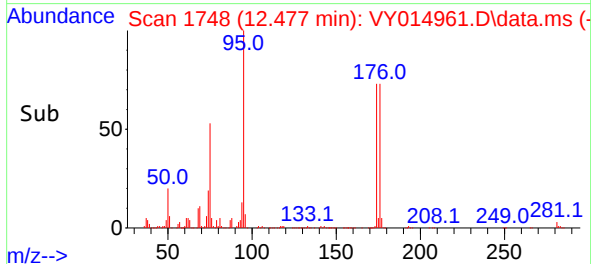
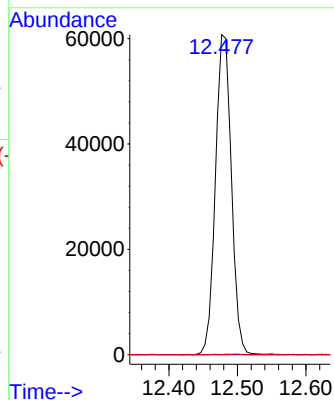
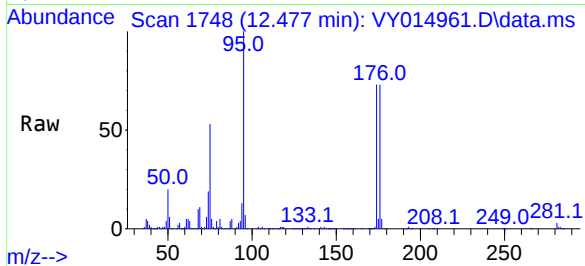




#81
trans-1,4-Dichloro-2-butene
Concen: 79.992 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

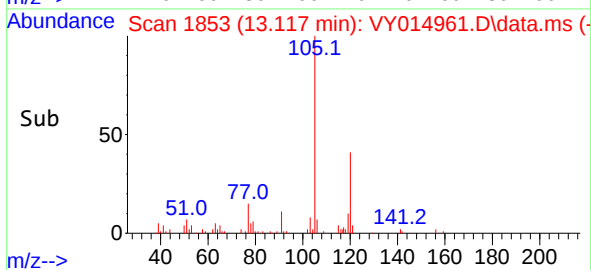
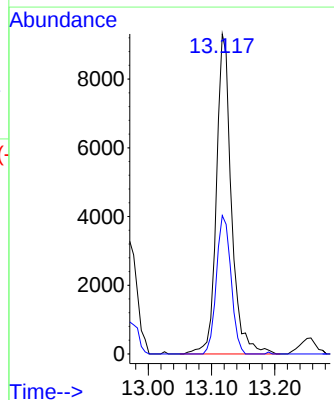
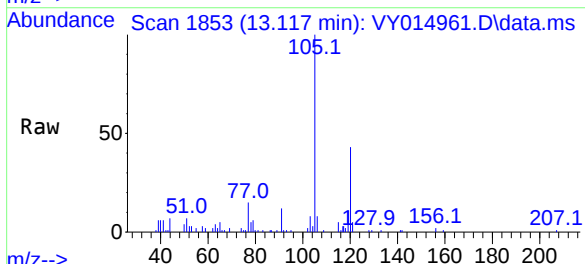
Instrument :
MSVOA_Y
ClientSampleId :
31464

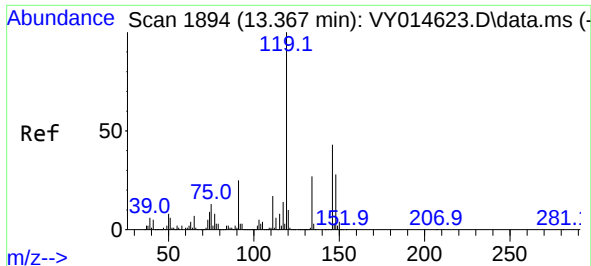
Tgt Ion: 75 Resp: 98004
Ion Ratio Lower Upper
75 100
53 0.1 77.8 116.8#
89 0.0 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 1.267 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion: 105 Resp: 15274
Ion Ratio Lower Upper
105 100
120 41.9 22.2 66.6

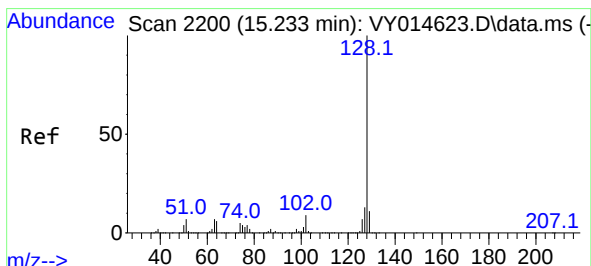
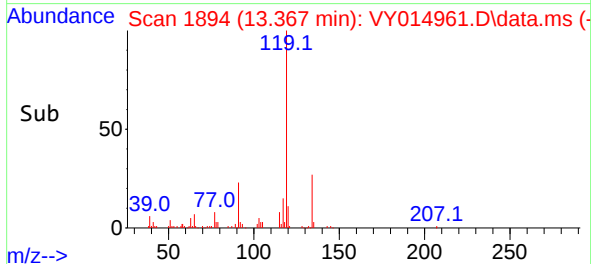
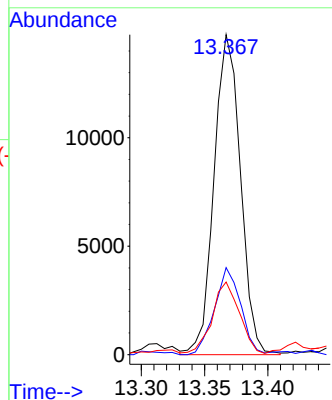
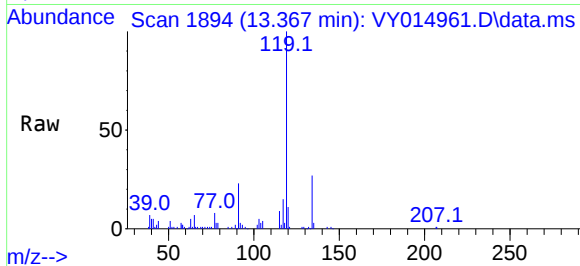




#86
p-Isopropyltoluene
Concen: 1.644 ug/l
RT: 13.367 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Instrument :
MSVOA_Y
ClientSampleId :
31464

Tgt Ion:	119	Resp:	21459
Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.3	39.8
91	23.8	12.4	37.4



#95
Naphthalene
Concen: 1.272 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY014961.D
Acq: 03 Aug 2023 20:10

Tgt Ion:	128	Resp:	11262
Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.8	16.2
129	12.8	8.6	13.0

