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 Data File : VY015329.D
 Acq On : 24 Aug 2023 21:58
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 25 Sample Multiplier: 1

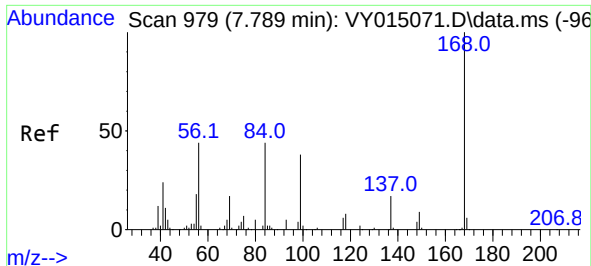
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Aug 25 03:28:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.789	168	192499	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	316081	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	286638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	142855	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	122418	52.977	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.960%			
35) Dibromofluoromethane	7.716	113	99401	48.883	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.760%			
50) Toluene-d8	10.179	98	370679	48.969	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.940%			
62) 4-Bromofluorobenzene	12.483	95	131638	47.612	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.220%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.527	74	1602	1.583	ug/l	90
11) Tert butyl alcohol	4.972	59	20722	40.919	ug/l #	82
15) Acrylonitrile	5.161	53	34671	50.542	ug/l	99
16) Acetone	3.948	43	35781	47.399	ug/l	92
18) Methyl Acetate	4.478	43	39961	14.445	ug/l #	90
19) Methyl tert-butyl Ether	5.228	73	12097	2.124	ug/l	99
20) Methylene Chloride	4.710	84	16383	5.179	ug/l #	84
29) Tetrahydrofuran	7.350	42	32468	50.802	ug/l	88
37) Ethyl Acetate	7.069	43	8222	3.921	ug/l	97
41) Methacrylonitrile	7.319	41	8909m	8.239	ug/l	
42) 1,2-Dichloroethane	8.234	62	3302	1.337	ug/l	99
43) Isopropyl Acetate	8.276	43	10706	2.804	ug/l #	93
46) Dibromomethane	9.301	93	1690	1.397	ug/l	91
48) Methyl methacrylate	9.295	41	7185	4.398	ug/l	93
49) 1,4-Dioxane	9.307	88	6326	261.527	ug/l #	69
51) 4-Methyl-2-Pentanone	10.069	43	80489	36.369	ug/l	93
55) 1,1,2-Trichloroethane	10.642	97	2621	1.425	ug/l	98
56) Ethyl methacrylate	10.514	69	4726	1.756	ug/l	96
57) 1,3-Dichloropropane	10.788	76	3322	1.106	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.782	63	17830	14.233	ug/l	93
59) 2-Hexanone	10.831	43	60203	36.755	ug/l	93
61) 1,2-Dibromoethane	11.087	107	2678	1.533	ug/l	99
71) Bromoform	12.209	173	2317	1.508	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.587	83	2636	1.102	ug/l	100
76) 1,2,3-Trichloropropane	12.629	75	8080	4.656	ug/l #	100
92) 1,2-Dibromo-3-Chloropr...	14.355	75	2388	5.153	ug/l	97
95) Naphthalene	15.233	128	405865	61.169	ug/l	99

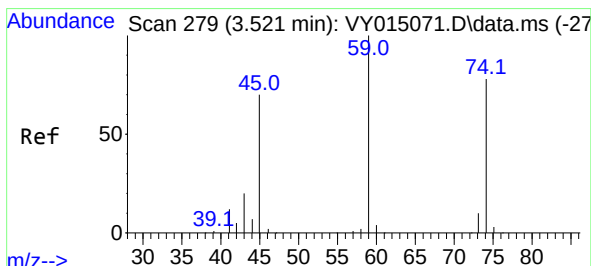
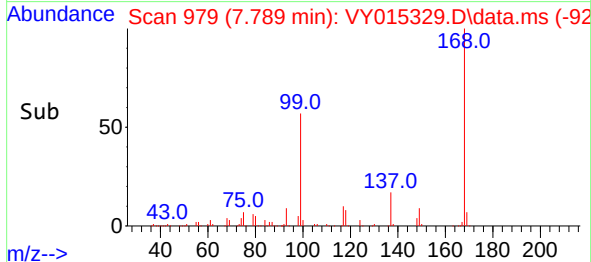
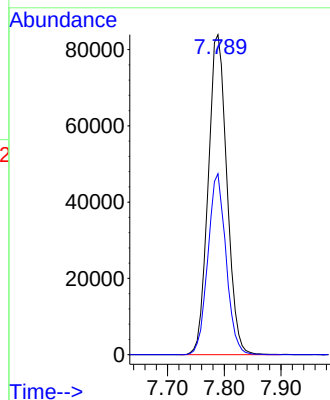
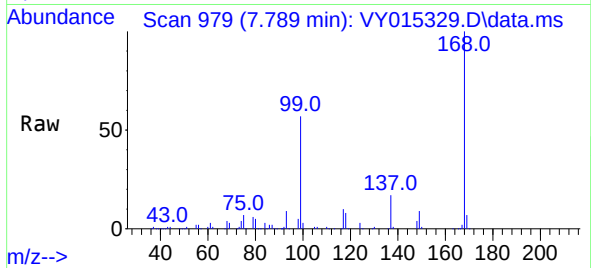
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

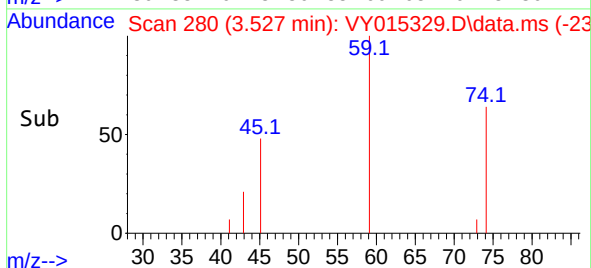
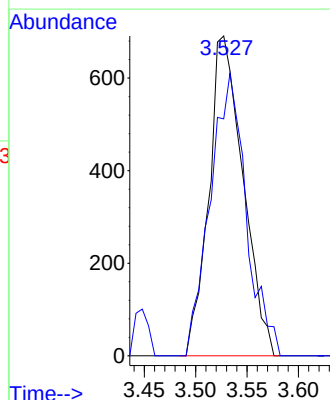
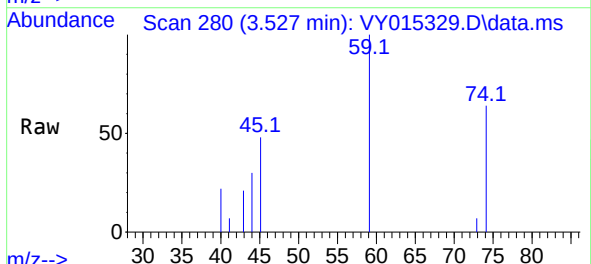
Instrument :
MSVOA_Y
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VIBLK

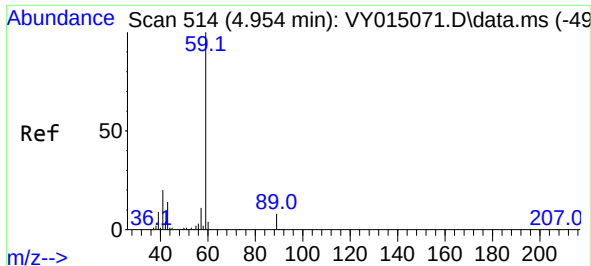
Tgt Ion:168 Resp: 192499
Ion Ratio Lower Upper
168 100
99 56.6 43.4 65.0



#8
Diethyl Ether
Concen: 1.583 ug/l
RT: 3.527 min Scan# 280
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 74 Resp: 1602
Ion Ratio Lower Upper
74 100
45 92.6 51.5 154.5

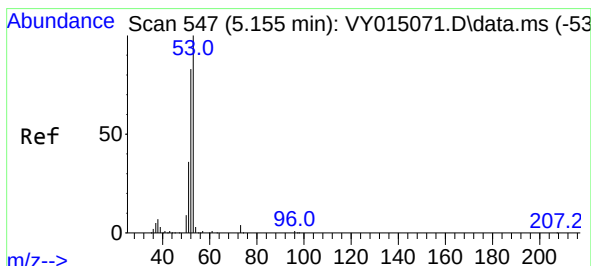
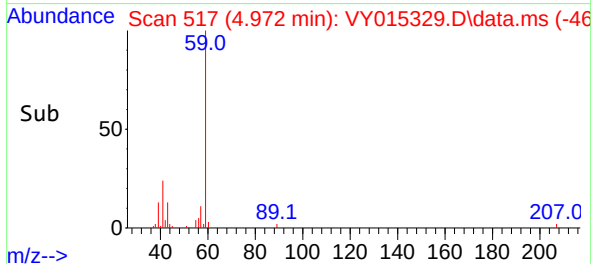
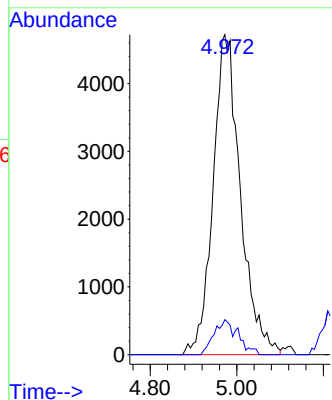
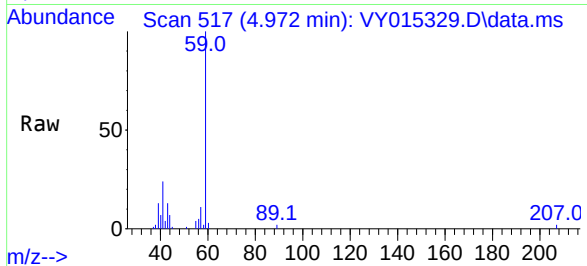




#11
Tert butyl alcohol
Concen: 40.919 ug/l
RT: 4.972 min Scan# 51
Delta R.T. 0.024 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

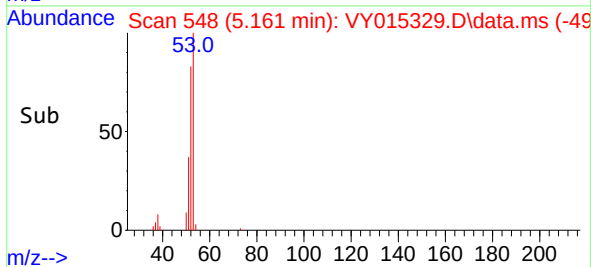
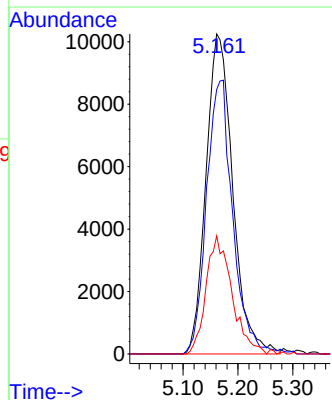
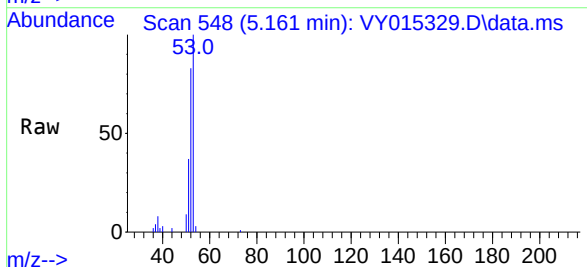
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ClientSampleId :
VIBLK

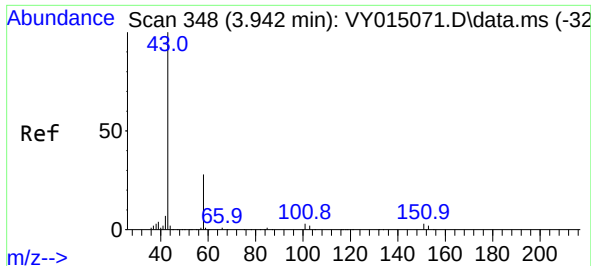
Tgt Ion: 59 Resp: 20722
Ion Ratio Lower Upper
59 100
57 9.6 3.0 4.4#



#15
Acrylonitrile
Concen: 50.542 ug/l
RT: 5.161 min Scan# 548
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 53 Resp: 34671
Ion Ratio Lower Upper
53 100
52 84.0 66.9 100.3
51 35.6 29.8 44.6

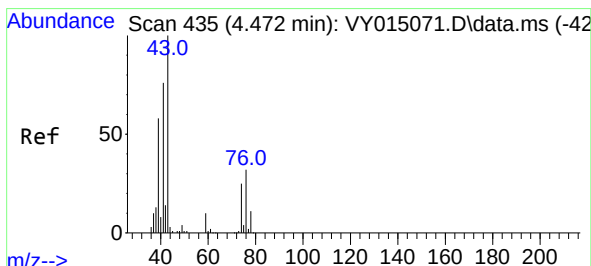
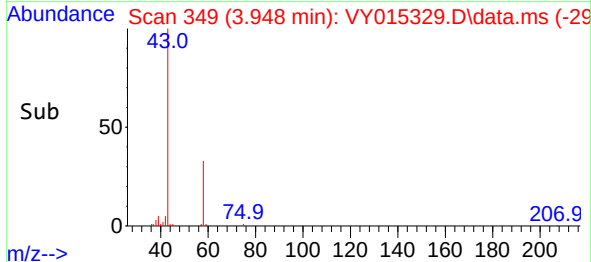
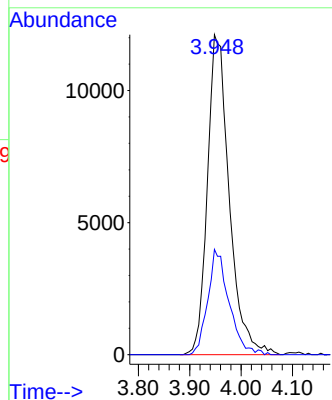
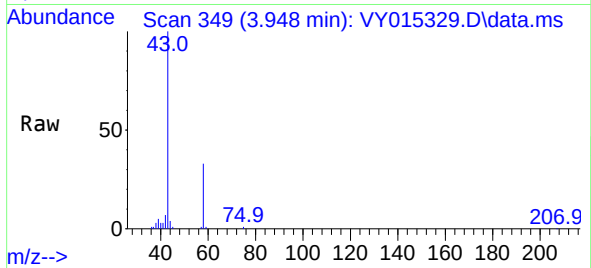




#16
Acetone
Concen: 47.399 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

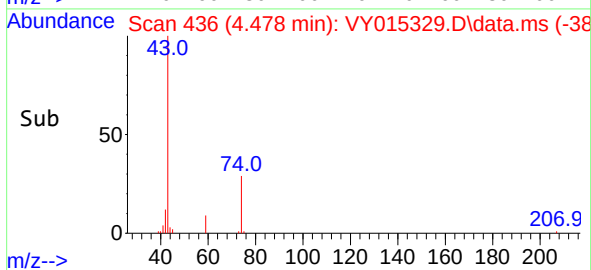
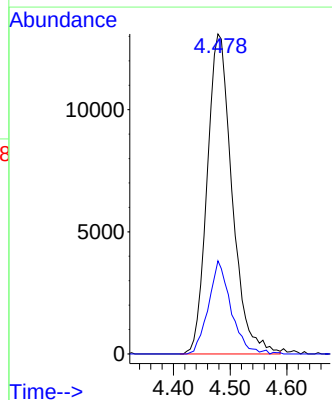
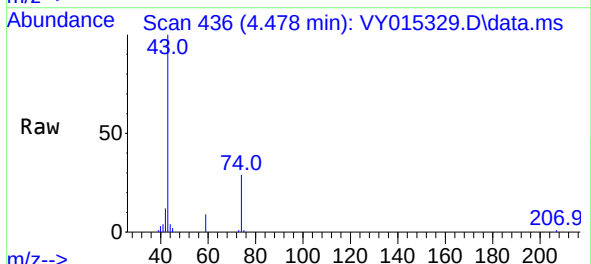
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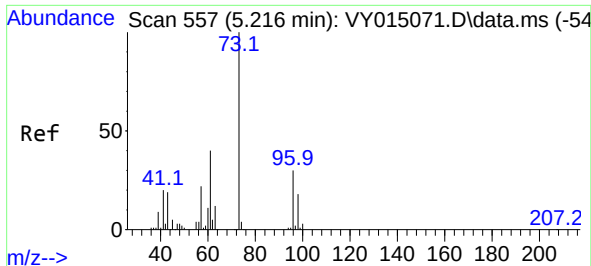
Tgt Ion: 43 Resp: 35781
Ion Ratio Lower Upper
43 100
58 32.9 22.7 34.1



#18
Methyl Acetate
Concen: 14.445 ug/l
RT: 4.478 min Scan# 436
Delta R.T. 0.012 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 43 Resp: 39961
Ion Ratio Lower Upper
43 100
74 26.4 17.4 26.0#

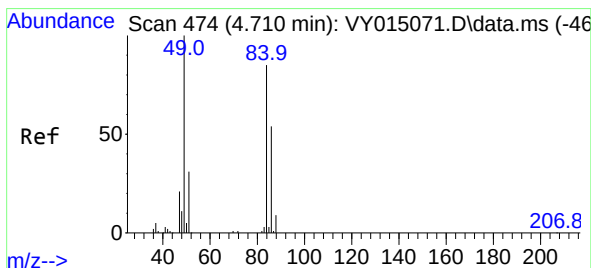
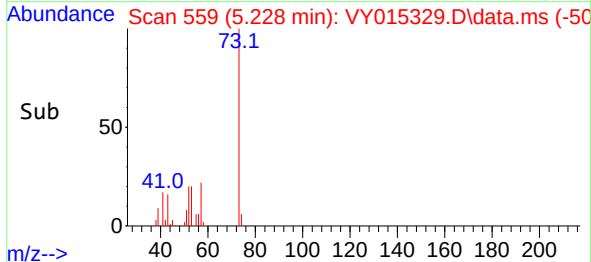
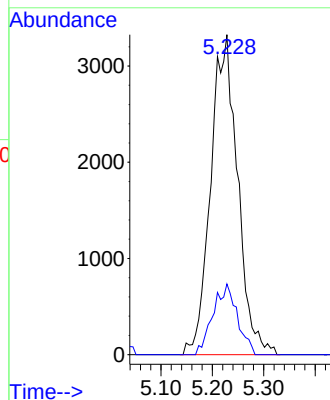
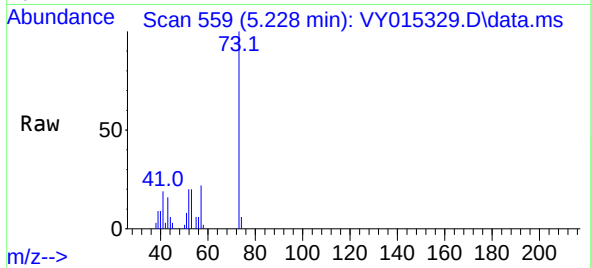




#19
Methyl tert-butyl Ether
Concen: 2.124 ug/l
RT: 5.228 min Scan# 51
Delta R.T. 0.018 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

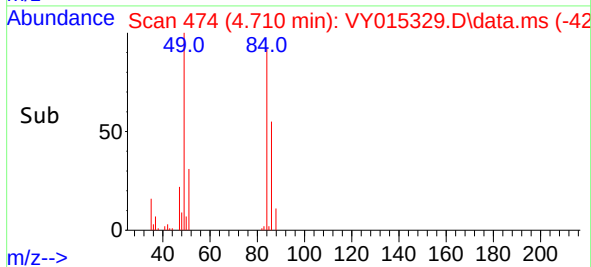
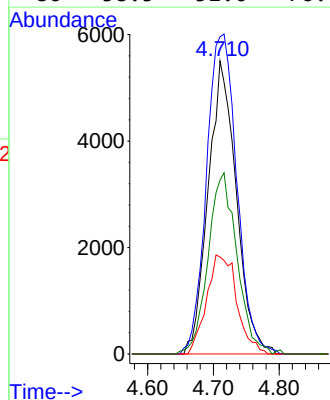
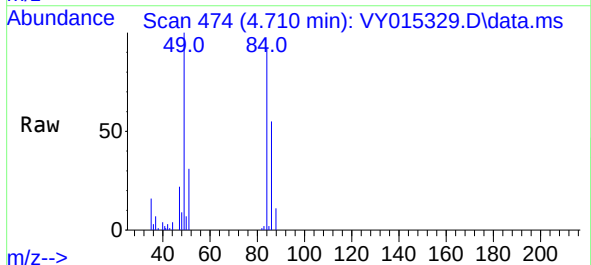
Instrument :
MSVOA_Y
ClientSampleId :
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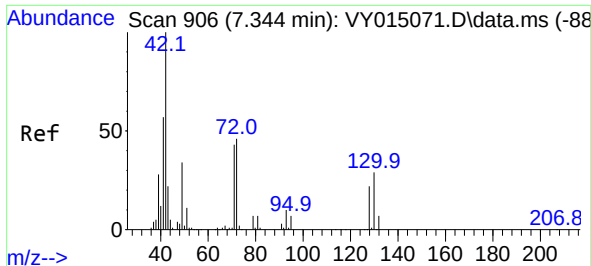
Tgt Ion: 73 Resp: 12097
Ion Ratio Lower Upper
73 100
57 22.1 17.3 25.9



#20
Methylene Chloride
Concen: 5.179 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 84 Resp: 16383
Ion Ratio Lower Upper
84 100
49 108.3 106.9 160.3
51 33.1 33.2 49.8#
86 58.5 51.0 76.6

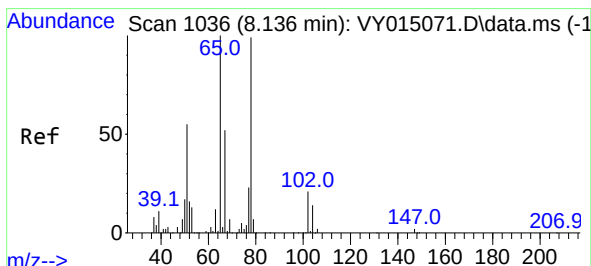
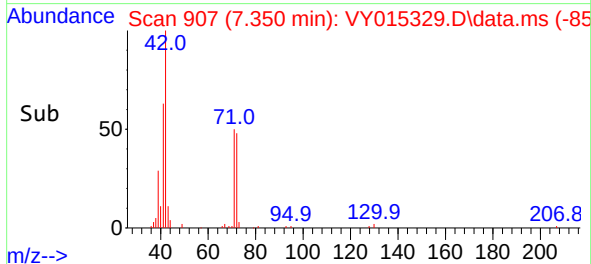
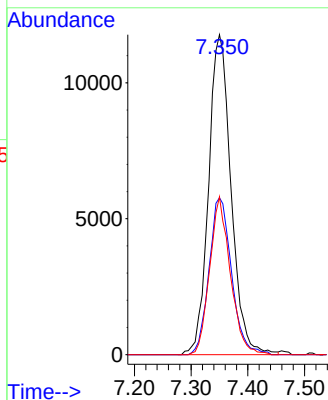
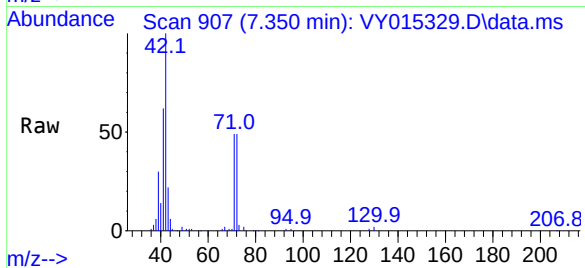




#29
Tetrahydrofuran
Concen: 50.802 ug/l
RT: 7.350 min Scan# 906
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

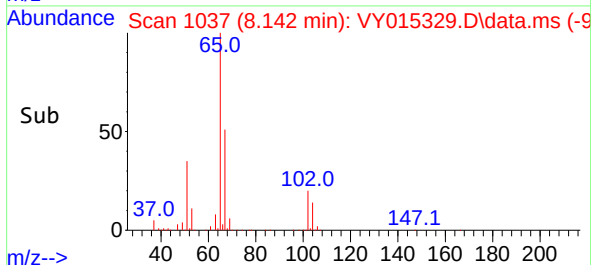
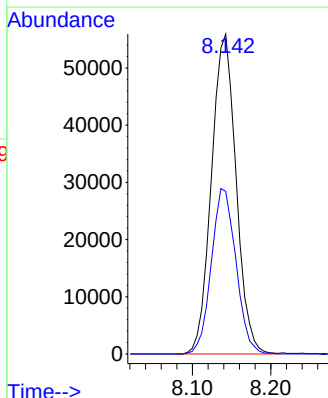
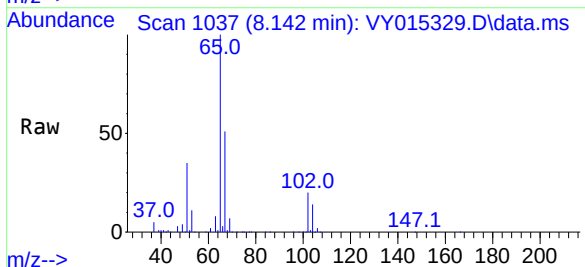
Instrument :
MSVOA_Y
ClientSampleId :
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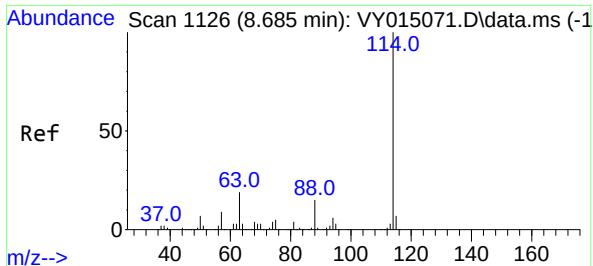
Tgt Ion: 42 Resp: 32468
Ion Ratio Lower Upper
42 100
72 49.1 32.8 49.2
71 45.3 31.0 46.4



#33
1,2-Dichloroethane-d4
Concen: 52.977 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 65 Resp: 122418
Ion Ratio Lower Upper
65 100
67 51.6 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: VY015329.D

Acq: 24 Aug 2023 21:58

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

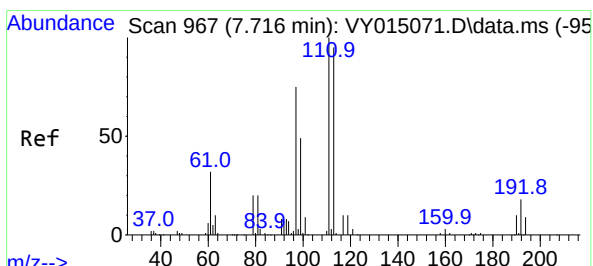
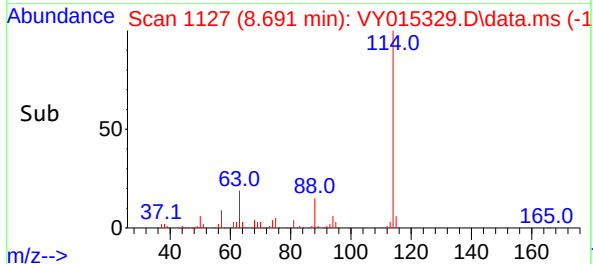
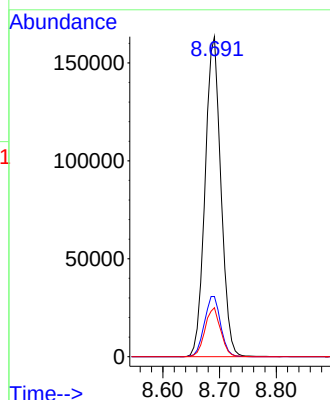
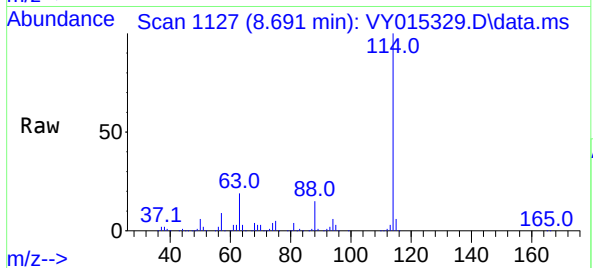
Tgt Ion:114 Resp: 316081

Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.4

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.883 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY015329.D

Acq: 24 Aug 2023 21:58

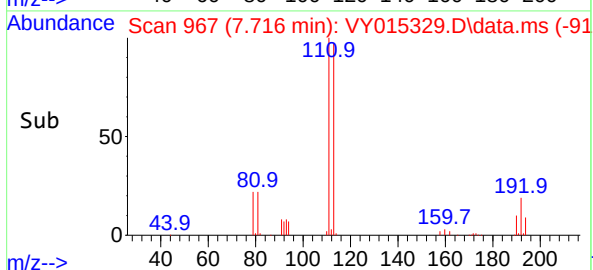
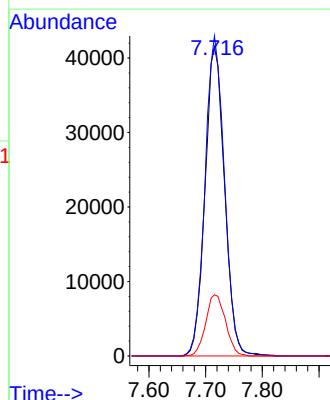
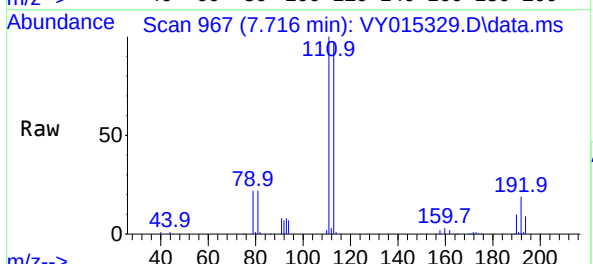
Tgt Ion:113 Resp: 99401

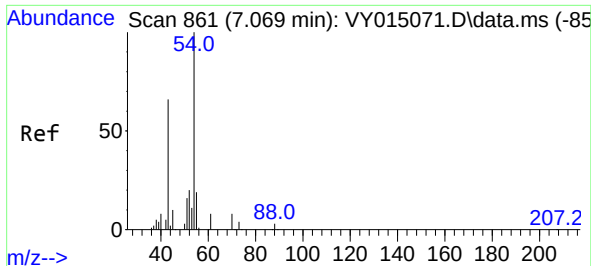
Ion Ratio Lower Upper

113 100

111 103.0 81.3 121.9

192 20.1 16.9 25.3

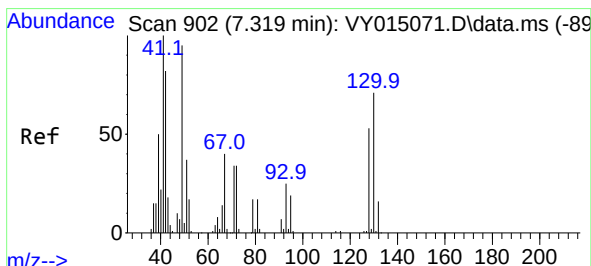
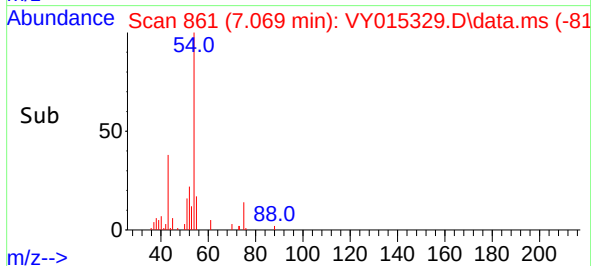
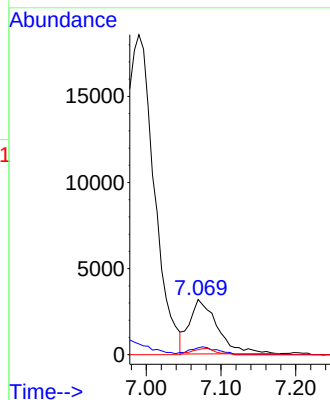
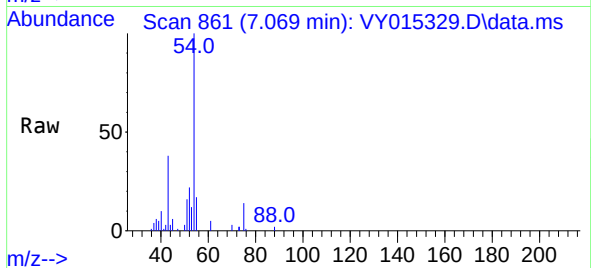




#37
Ethyl Acetate
Concen: 3.921 ug/l
RT: 7.069 min Scan# 861
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

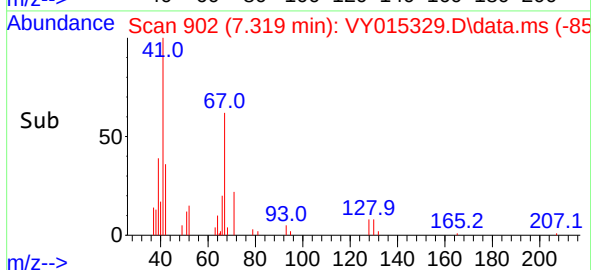
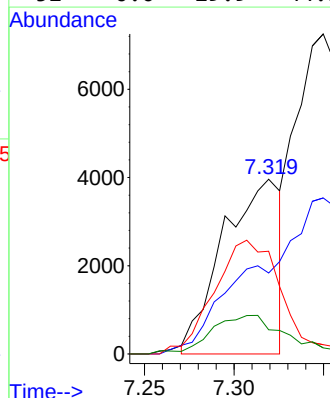
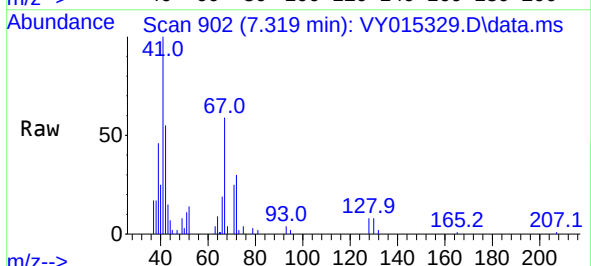
Instrument :
MSVOA_Y
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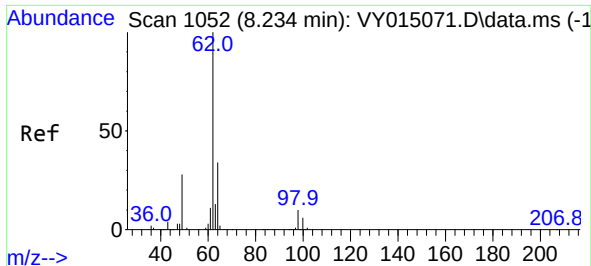
Tgt Ion: 43 Resp: 8222
Ion Ratio Lower Upper
43 100
61 14.1 10.1 15.1
70 9.6 7.1 10.7



#41
Methacrylonitrile
Concen: 8.239 ug/l m
RT: 7.319 min Scan# 902
Delta R.T. 0.012 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 41 Resp: 8909
Ion Ratio Lower Upper
41 100
39 0.0 52.1 78.1#
67 0.0 66.2 99.2#
52 0.0 29.9 44.9#





#42

1,2-Dichloroethane

Concen: 1.337 ug/l

RT: 8.234 min Scan# 1052

Delta R.T. -0.000 min

Lab File: VY015329.D

Acq: 24 Aug 2023 21:58

Instrument :

MSVOA_Y

ClientSampleId :

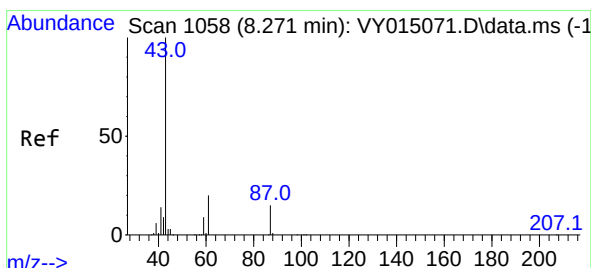
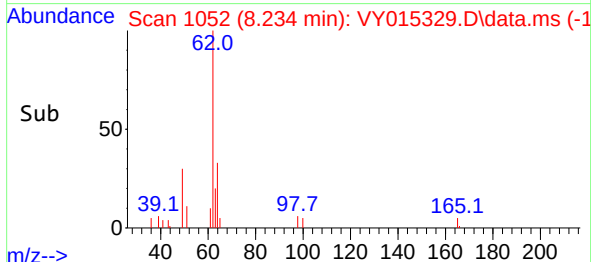
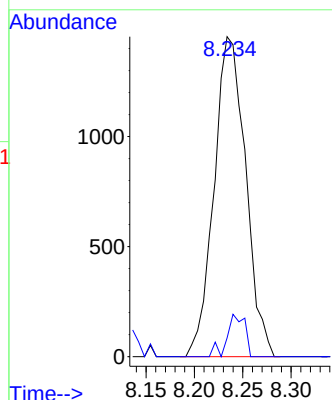
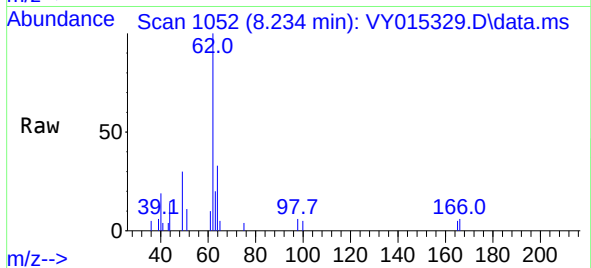
VIBLK

Tgt Ion: 62 Resp: 3302

Ion Ratio Lower Upper

62 100

98 7.5 0.0 15.8



#43

Isopropyl Acetate

Concen: 2.804 ug/l

RT: 8.276 min Scan# 1059

Delta R.T. 0.006 min

Lab File: VY015329.D

Acq: 24 Aug 2023 21:58

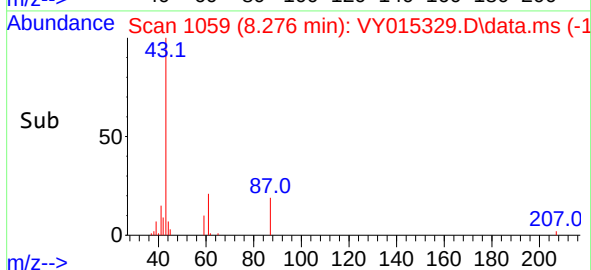
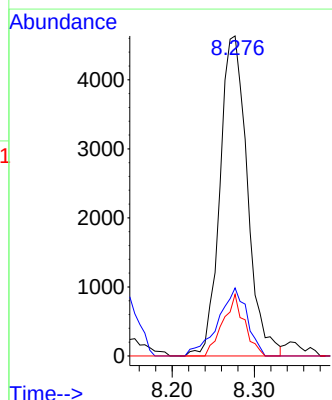
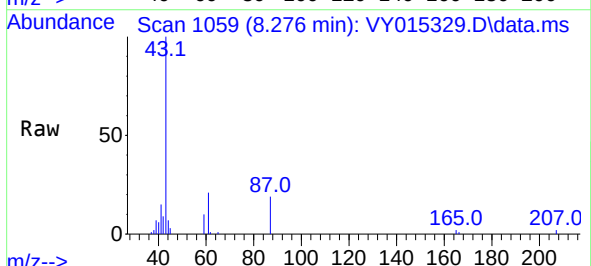
Tgt Ion: 43 Resp: 10706

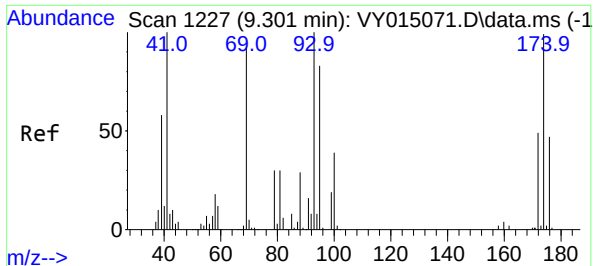
Ion Ratio Lower Upper

43 100

61 22.7 21.1 31.7

87 15.2 9.8 14.8#



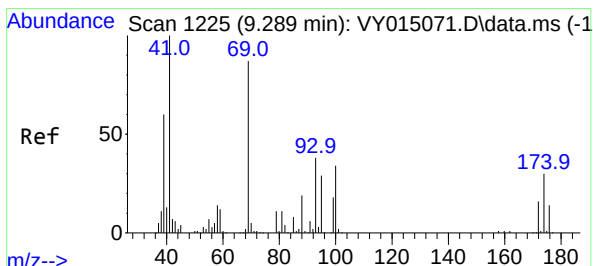
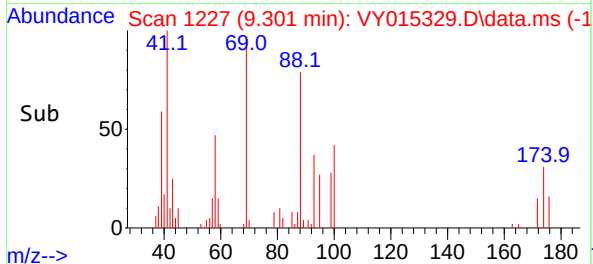
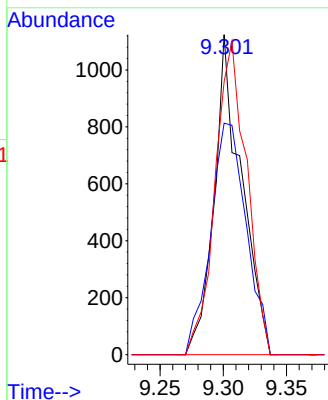
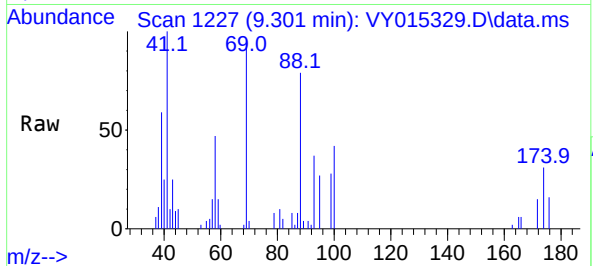


#46
Dibromomethane
Concen: 1.397 ug/l
RT: 9.301 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Tgt Ion: 93 Resp: 1690

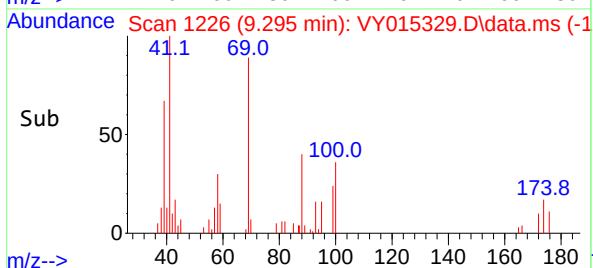
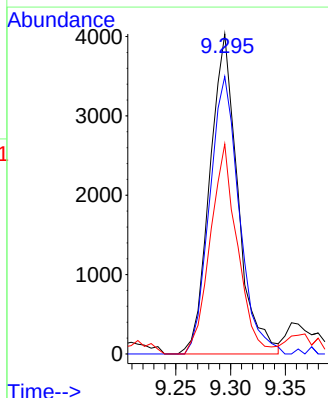
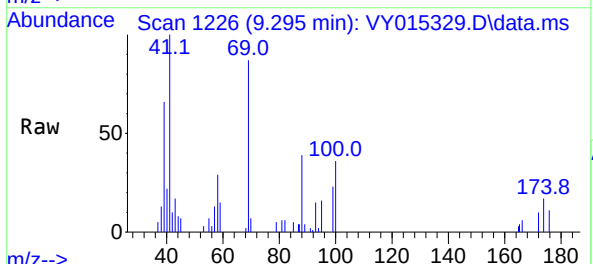
Ion	Ratio	Lower	Upper
93	100		
95	94.6	66.6	100.0
174	112.7	84.8	127.2

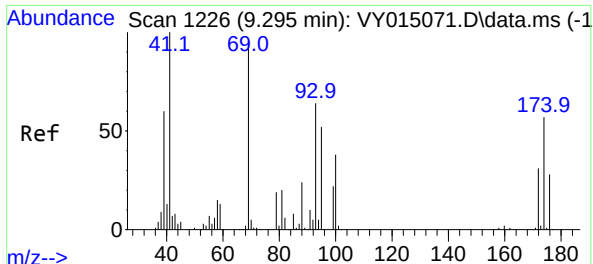


#48
Methyl methacrylate
Concen: 4.398 ug/l
RT: 9.295 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 41 Resp: 7185

Ion	Ratio	Lower	Upper
41	100		
69	91.3	64.5	96.7
39	63.4	50.8	76.2





#49

1,4-Dioxane

Concen: 261.527 ug/l

RT: 9.307 min Scan# 1226

Delta R.T. 0.012 min

Lab File: VY015329.D

Acq: 24 Aug 2023 21:58

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

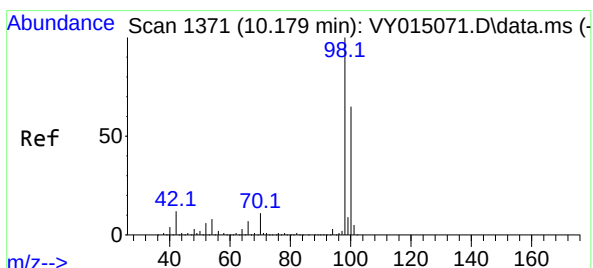
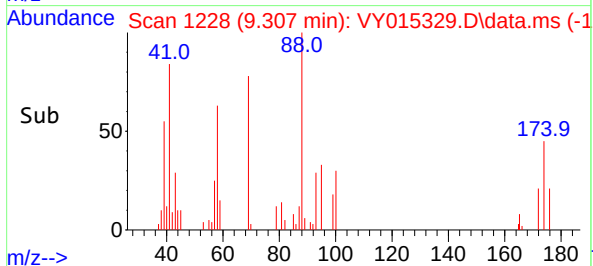
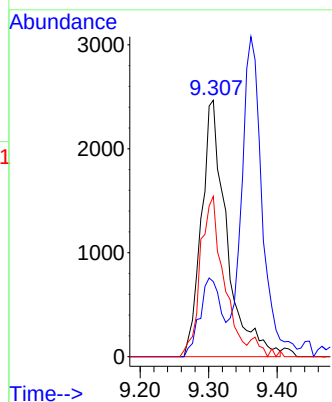
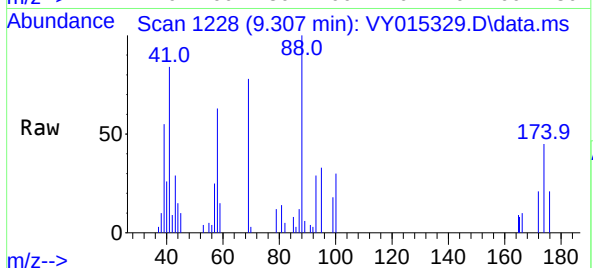
Tgt Ion: 88 Resp: 6326

Ion Ratio Lower Upper

88 100

43 25.8 0.0 0.0#

58 57.4 30.9 46.3#



#50

Toluene-d8

Concen: 48.969 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY015329.D

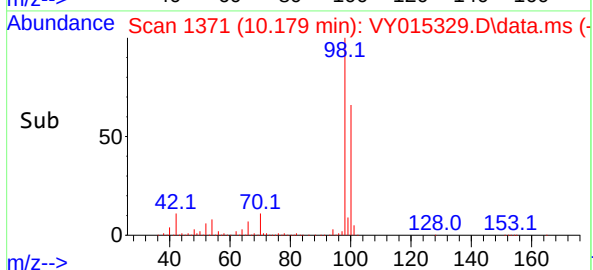
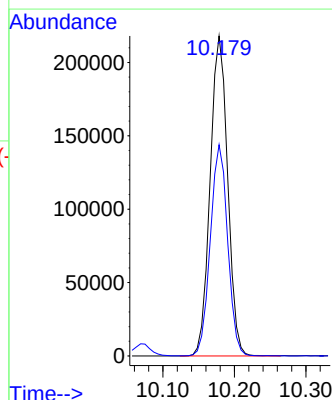
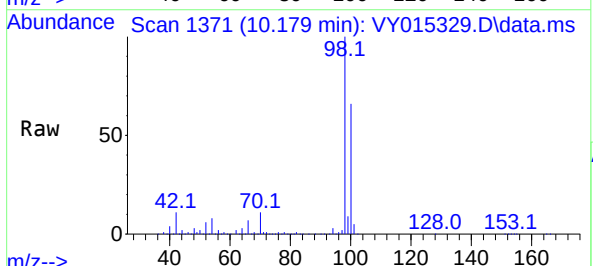
Acq: 24 Aug 2023 21:58

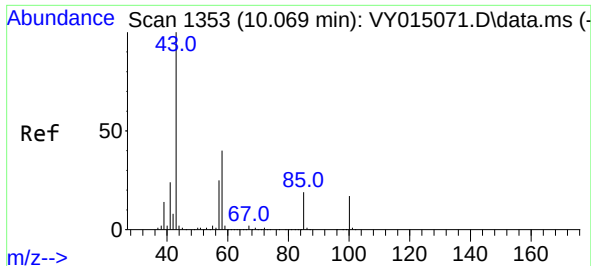
Tgt Ion: 98 Resp: 370679

Ion Ratio Lower Upper

98 100

100 65.4 50.1 75.1

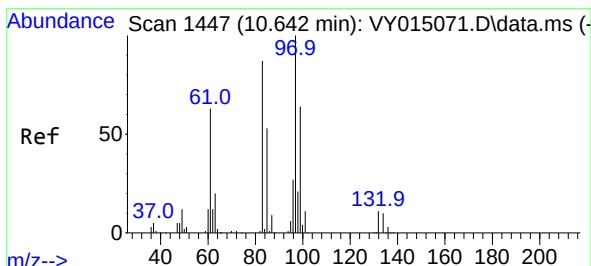
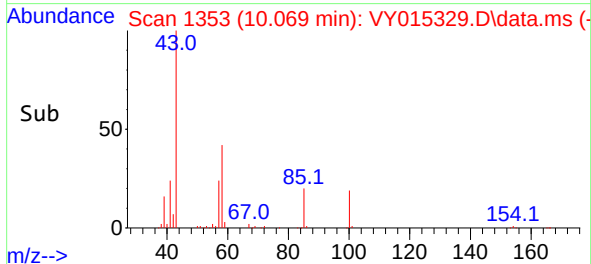
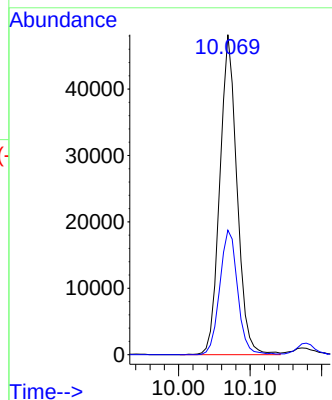
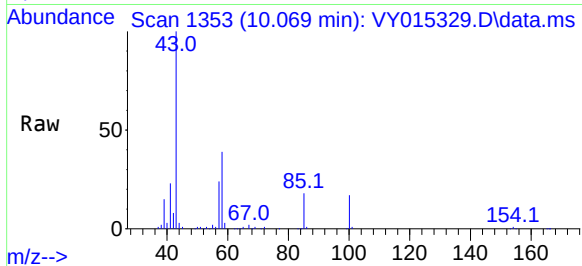




#51
4-Methyl-2-Pentanone
Concen: 36.369 ug/l
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

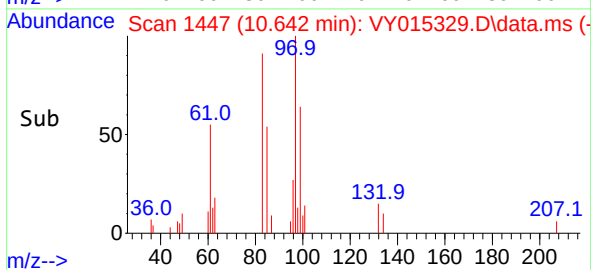
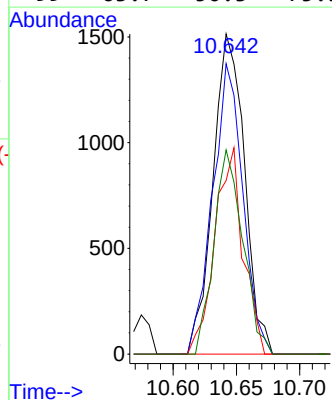
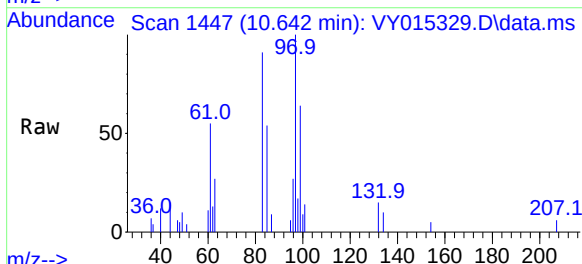
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

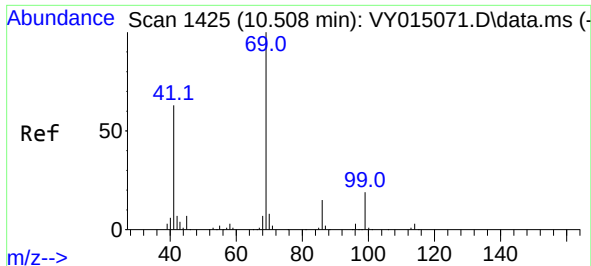
Tgt Ion: 43 Resp: 80489
Ion Ratio Lower Upper
43 100
58 40.3 29.0 43.6



#55
1,1,2-Trichloroethane
Concen: 1.425 ug/l
RT: 10.642 min Scan# 1447
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 97 Resp: 2621
Ion Ratio Lower Upper
97 100
83 90.7 72.0 108.0
85 54.2 45.4 68.0
99 63.7 50.3 75.5

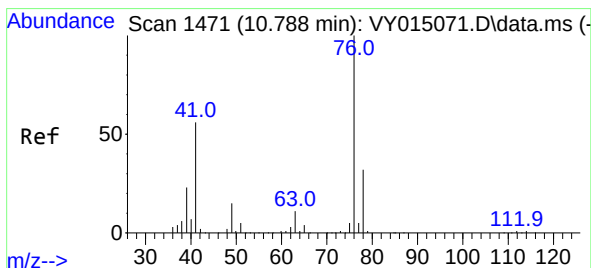
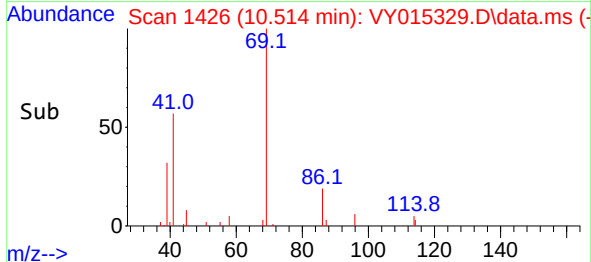
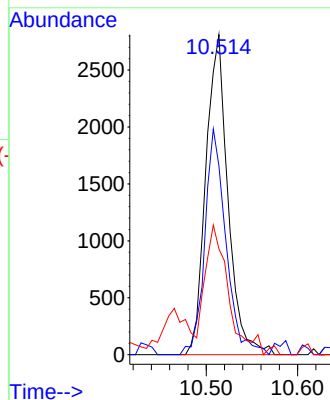
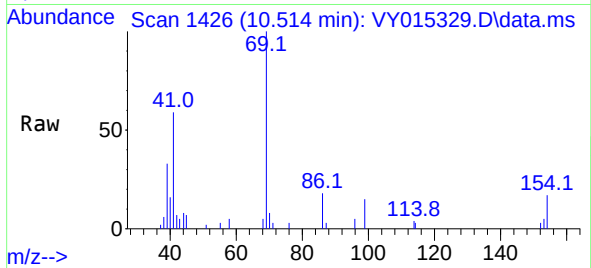




#56
Ethyl methacrylate
Concen: 1.756 ug/l
RT: 10.514 min Scan# 1426
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

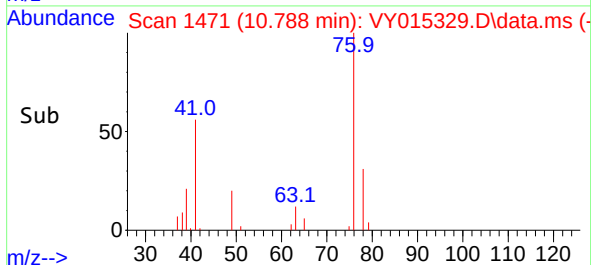
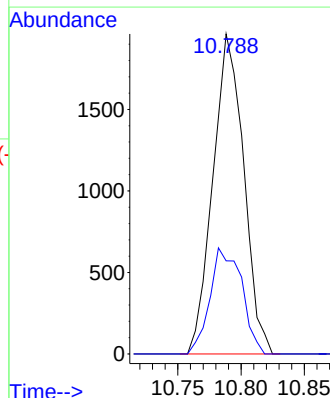
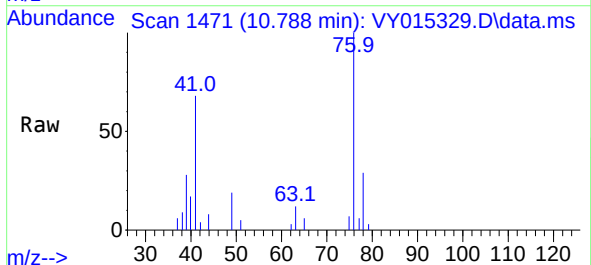
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

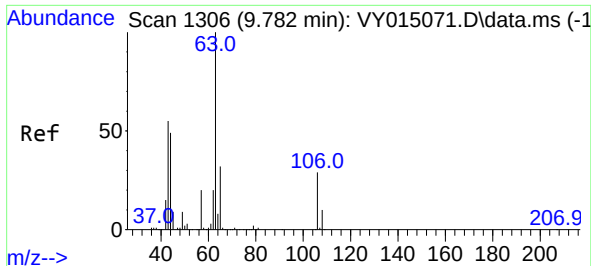
Tgt Ion: 69 Resp: 4726
Ion Ratio Lower Upper
69 100
41 67.4 57.6 86.4
39 43.4 34.1 51.1



#57
1,3-Dichloropropane
Concen: 1.106 ug/l
RT: 10.788 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 76 Resp: 3322
Ion Ratio Lower Upper
76 100
78 34.1 25.3 37.9

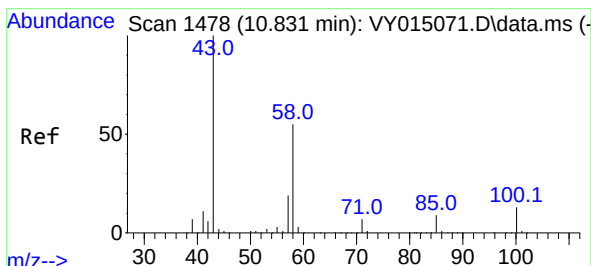
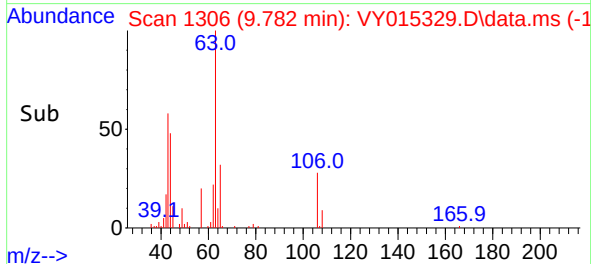
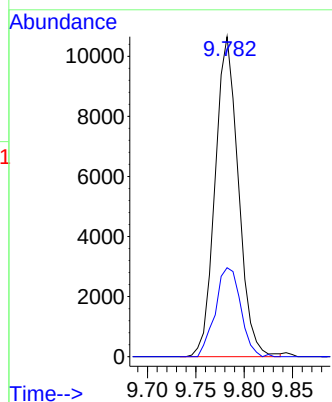
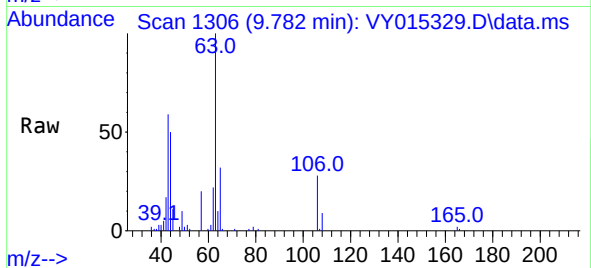




#58
2-Chloroethyl Vinyl ether
Concen: 14.233 ug/l
RT: 9.782 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

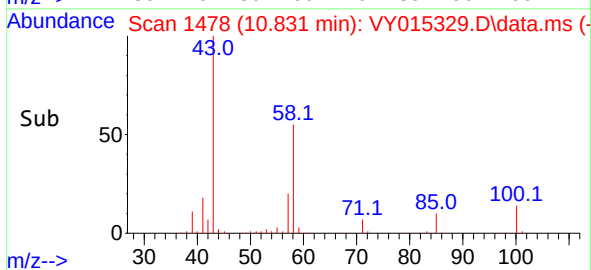
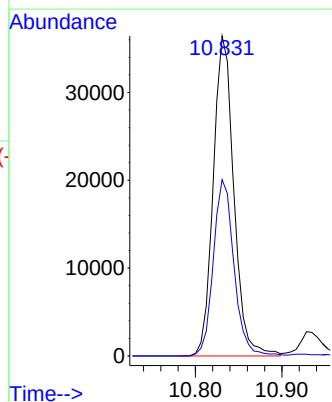
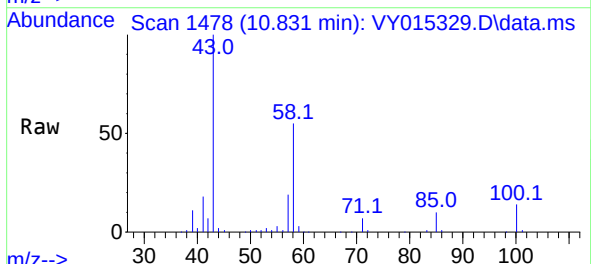
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

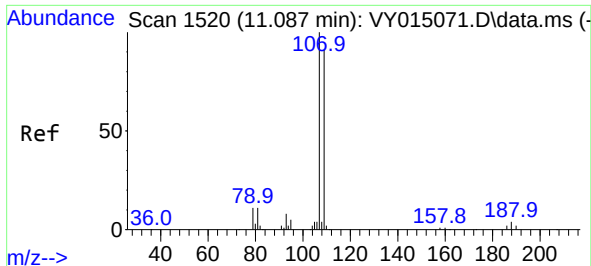
Tgt Ion: 63 Resp: 17830
Ion Ratio Lower Upper
63 100
106 30.3 21.2 31.8



#59
2-Hexanone
Concen: 36.755 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 43 Resp: 60203
Ion Ratio Lower Upper
43 100
58 55.3 25.1 75.3

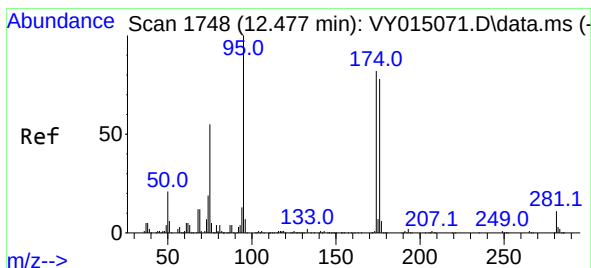
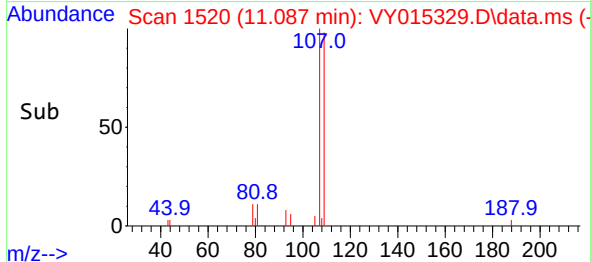
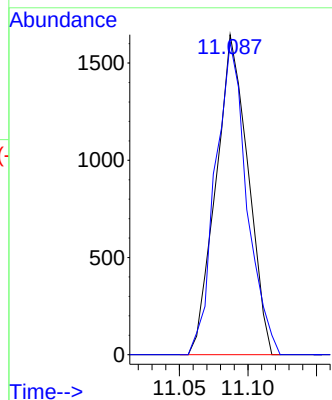
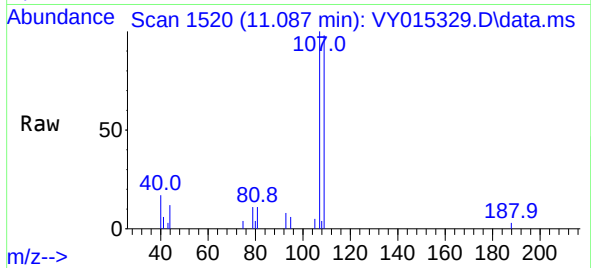




#61
1,2-Dibromoethane
Concen: 1.533 ug/l
RT: 11.087 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

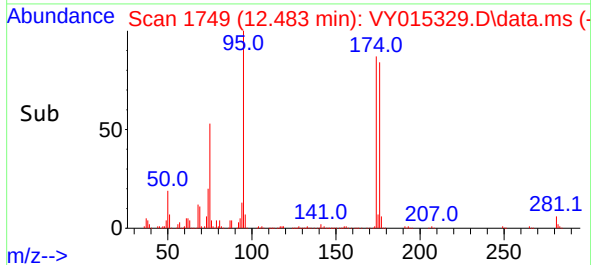
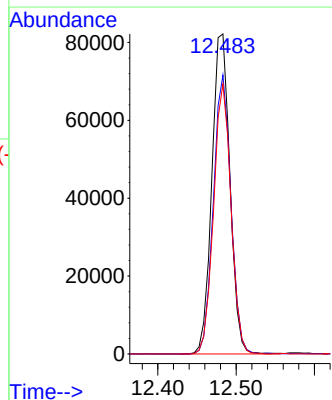
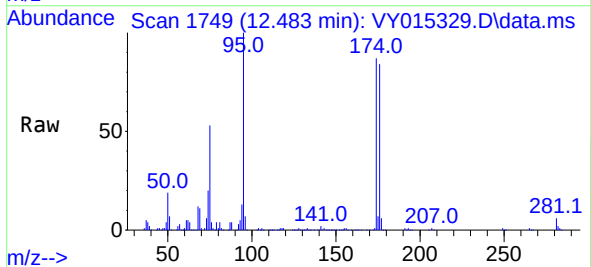
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

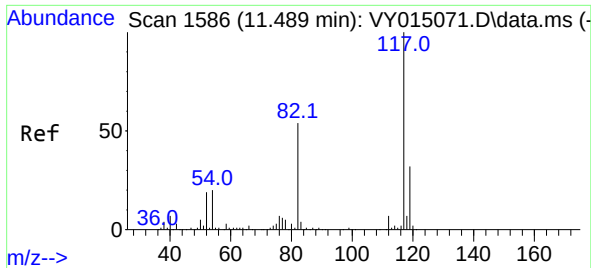
Tgt Ion:107 Resp: 2678
Ion Ratio Lower Upper
107 100
109 95.9 75.6 113.4



#62
4-Bromofluorobenzene
Concen: 47.612 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion: 95 Resp: 131638
Ion Ratio Lower Upper
95 100
174 84.7 0.0 178.2
176 81.3 0.0 173.8

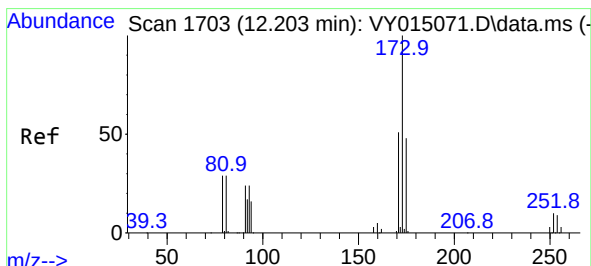
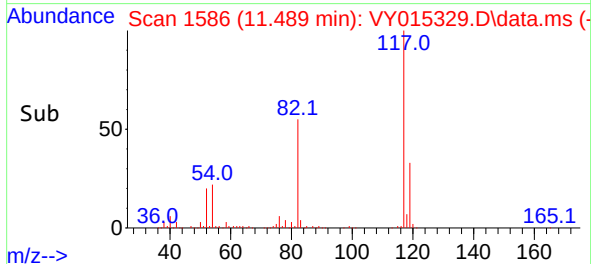
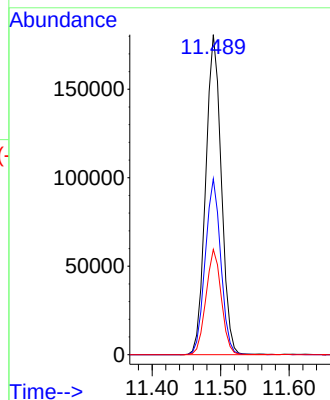
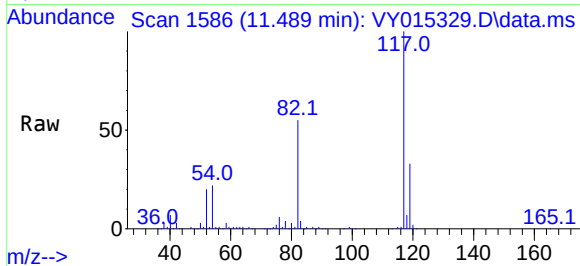




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

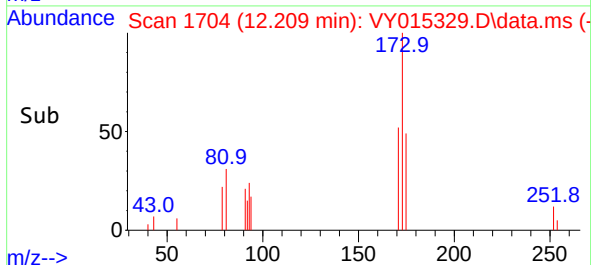
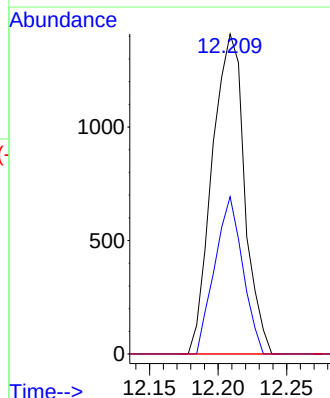
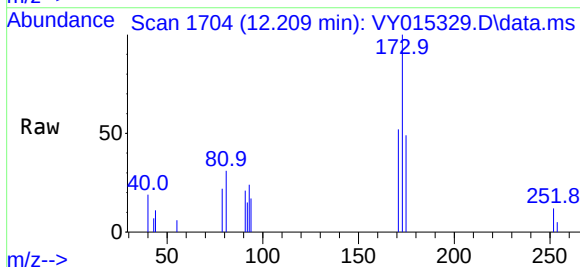
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

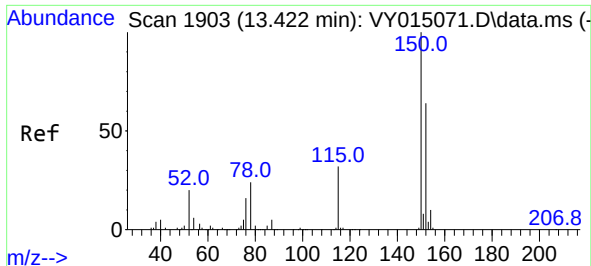
Tgt Ion:117 Resp: 286638
Ion Ratio Lower Upper
117 100
82 55.0 43.4 65.0
119 32.9 26.3 39.5



#71
Bromoform
Concen: 1.508 ug/l
RT: 12.209 min Scan# 1704
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Tgt Ion:173 Resp: 2317
Ion Ratio Lower Upper
173 100
175 42.4 24.6 73.8
254 0.0 0.2 0.2#

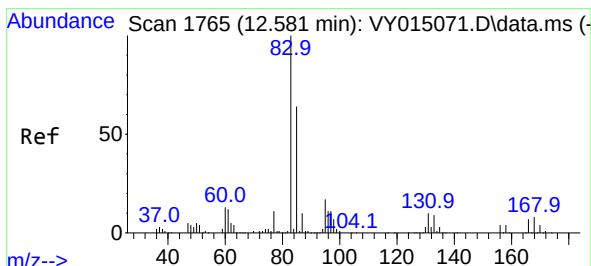
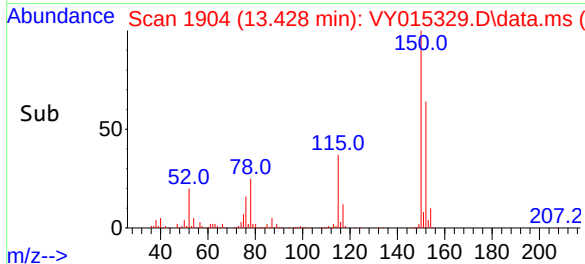
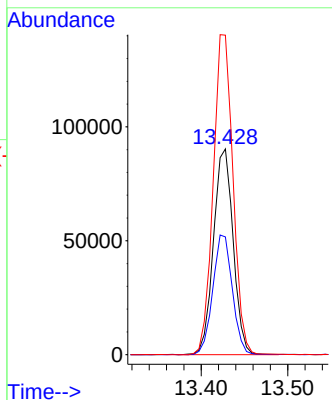
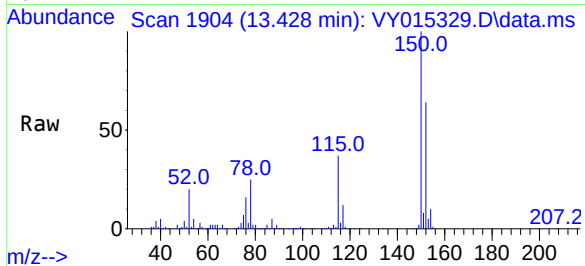




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.428 min Scan# 1903
 Delta R.T. 0.006 min
 Lab File: VY015329.D
 Acq: 24 Aug 2023 21:58

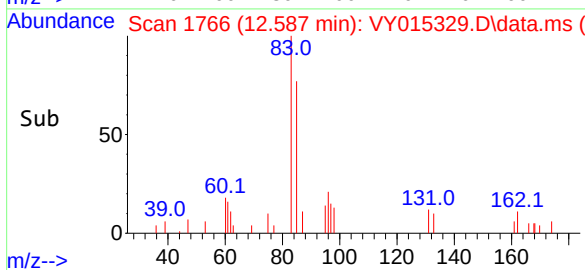
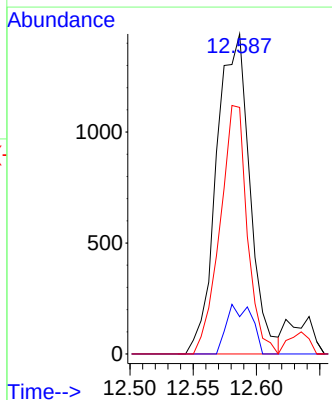
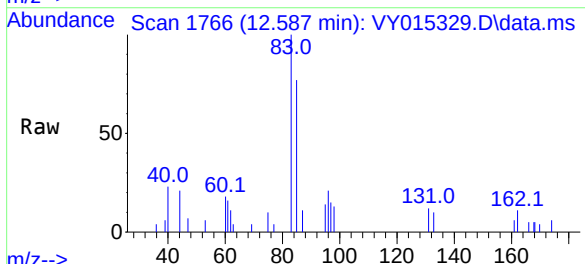
Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

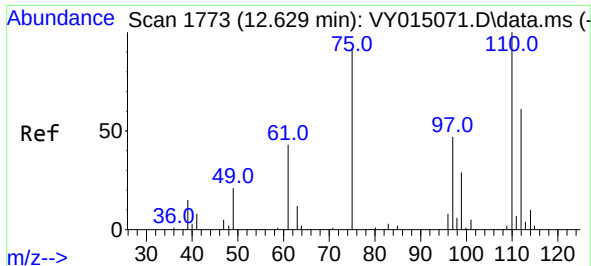
Tgt Ion:152 Resp: 142855
 Ion Ratio Lower Upper
 152 100
 115 57.7 28.8 86.5
 150 156.1 0.0 348.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.102 ug/l
 RT: 12.587 min Scan# 1766
 Delta R.T. 0.006 min
 Lab File: VY015329.D
 Acq: 24 Aug 2023 21:58

Tgt Ion: 83 Resp: 2636
 Ion Ratio Lower Upper
 83 100
 131 11.7 5.4 16.2
 85 63.7 31.8 95.4

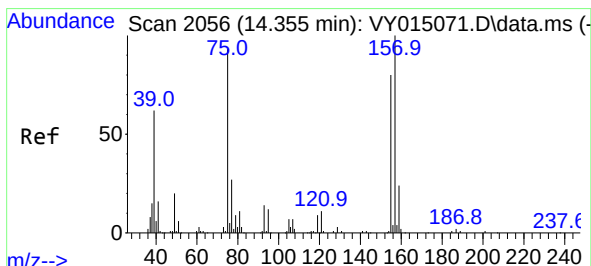
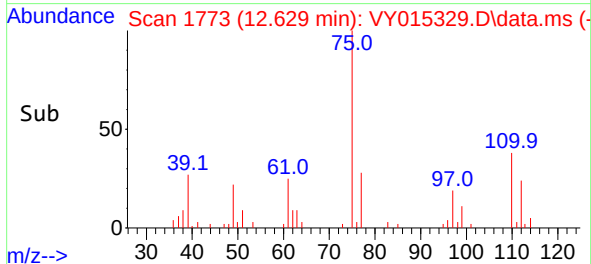
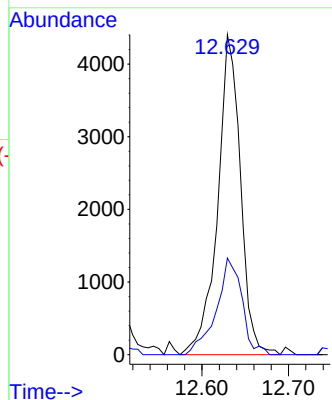
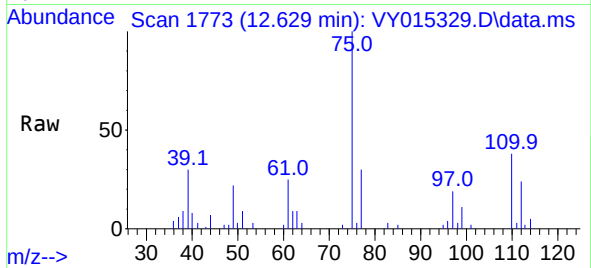




#76
1,2,3-Trichloropropane
Concen: 4.656 ug/l
RT: 12.629 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

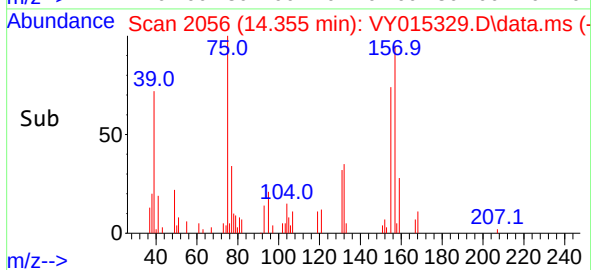
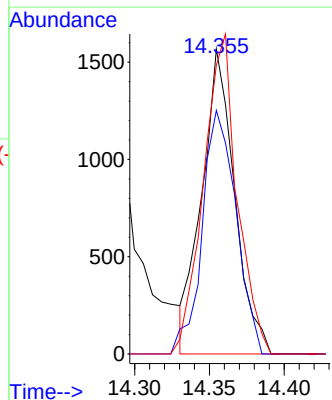
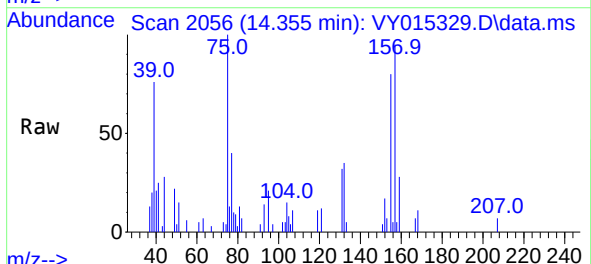
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

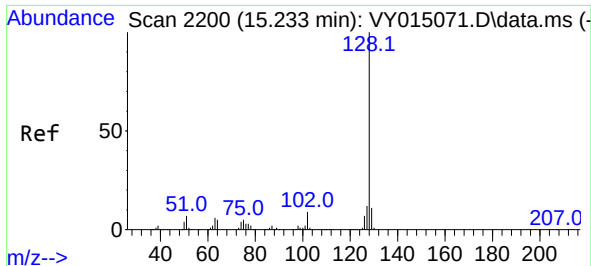
Tgt Ion: 75 Resp: 8080
Ion Ratio Lower Upper
75 100
77 33.9 0.0 0.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.153 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

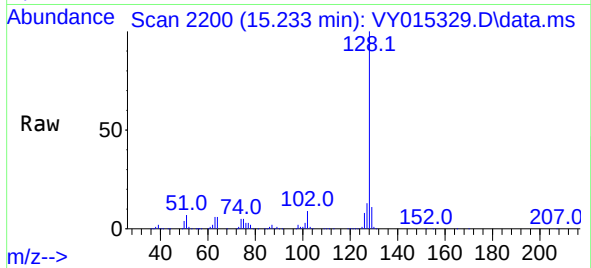
Tgt Ion: 75 Resp: 2388
Ion Ratio Lower Upper
75 100
155 82.5 41.5 124.6
157 107.8 51.8 155.5





#95
Naphthalene
Concen: 61.169 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY015329.D
Acq: 24 Aug 2023 21:58

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK



Tgt Ion:128 Resp: 405865
Ion Ratio Lower Upper
128 100
127 13.1 10.8 16.2
129 11.0 8.6 13.0

