

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082423\
 Data File : VY015324.D
 Acq On : 24 Aug 2023 20:01
 Operator : SY/MD
 Sample : 04147-01
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

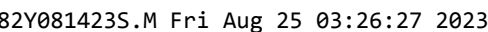
Quant Time: Aug 25 03:26:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

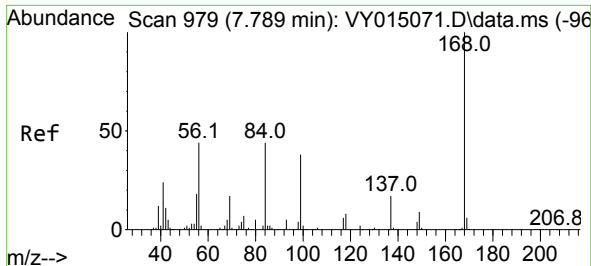
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	19636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	32285	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	30861	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	16230	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	13683	58.050	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.100%			
35) Dibromofluoromethane	7.710	113	10821	52.099	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.200%			
50) Toluene-d8	10.179	98	37788	48.873	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.740%			
62) 4-Bromofluorobenzene	12.483	95	14356	50.835	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.680%			
Target Compounds						Qvalue
3) Chloromethane	2.119	50	175	Below Cal	#	84
5) Bromomethane	2.668	94	465	2.834	ug/l #	53
10) Methyl Iodide	4.088	142	383	2.384	ug/l #	44
11) Tert butyl alcohol	4.905	59	198	Below Cal	#	89
14) Allyl chloride	4.418	41	379	1.564	ug/l #	22
16) Acetone	3.942	43	1494	19.402	ug/l #	79
20) Methylene Chloride	4.722	84	2306	8.942	ug/l #	82
25) 2-Butanone	6.978	43	2326	21.334	ug/l	96
26) 2,2-Dichloropropane	6.984	77	834	2.644	ug/l #	54
29) Tetrahydrofuran	7.332	42	245	3.758	ug/l #	53
31) Cyclohexane	7.783	56	391	Below Cal	#	37
37) Ethyl Acetate	6.978	43	2326	10.860	ug/l #	70
38) Carbon Tetrachloride	7.783	117	2118	7.788	ug/l #	12
40) Benzene	8.161	78	9481	13.647	ug/l	94
41) Methacrylonitrile	7.356	41	174	1.575	ug/l #	29
52) Toluene	10.246	92	1815	3.964	ug/l	99
55) 1,1,2-Trichloroethane	10.581	97	233	1.240	ug/l #	14
67) Ethyl Benzene	11.593	91	3369	3.420	ug/l #	87
68) m/p-Xylenes	11.697	106	1381	3.691	ug/l	94
69) o-Xylene	12.032	106	1156	3.101	ug/l	92
70) Styrene	12.044	104	745	1.155	ug/l #	86
76) 1,2,3-Trichloropropane	12.483	75	7443	37.747	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	7443	82.910	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.123	105	2513	2.891	ug/l	94
86) p-Isopropyltoluene	13.337	119	1589	1.644	ug/l #	72
90) Hexachloroethane	13.965	117	195	1.017	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.361	75	303	5.754	ug/l #	3
93) 1,2,4-Trichlorobenzene	15.013	180	394	1.302	ug/l	89
95) Naphthalene	15.233	128	286016	379.418	ug/l	99
96) 1,2,3-Trichlorobenzene	15.422	180	513	1.877	ug/l #	80

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

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QLast Update : Mon Aug 14 12:43:26 2023
Response via : Initial Calibration

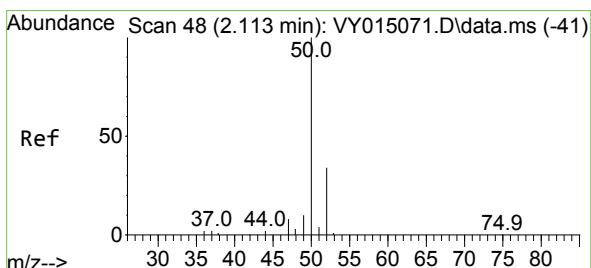
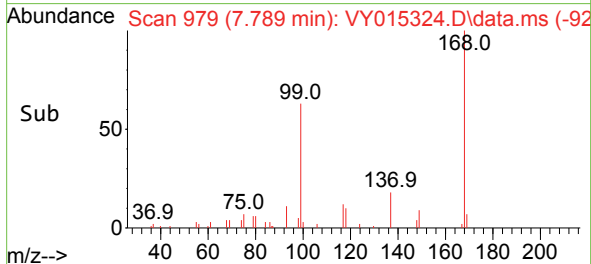
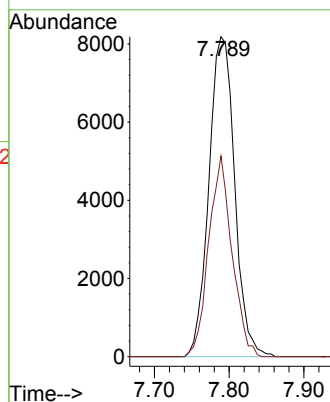
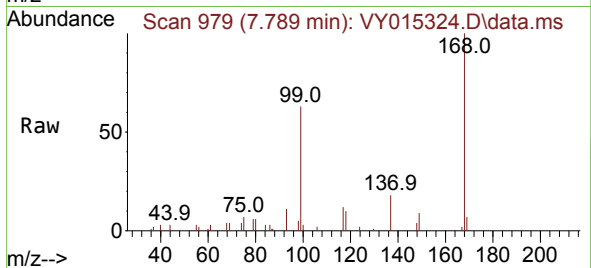




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

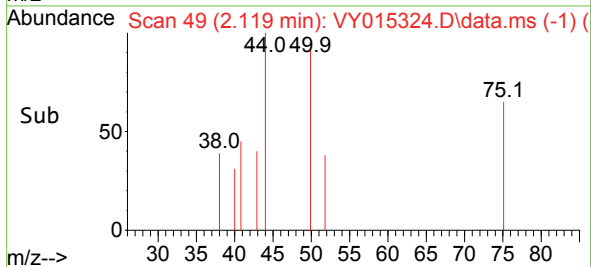
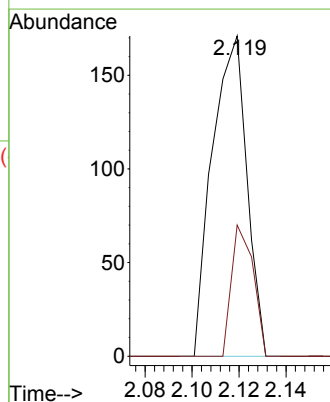
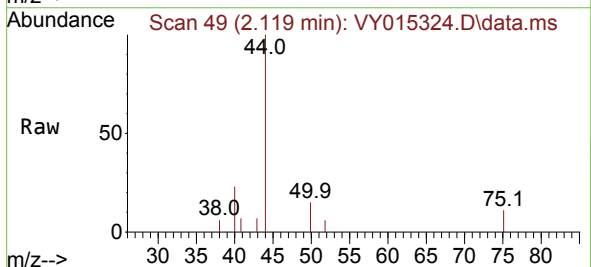
Instrument :
MSVOA_Y
ClientSampleId :

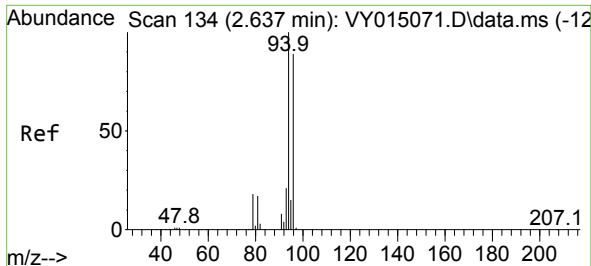
Tgt Ion:168 Resp: 19636
Ion Ratio Lower Upper
168 100
99 62.7 43.4 65.0



#3
Chloromethane
Concen: Below Cal
RT: 2.119 min Scan# 49
Delta R.T. 0.012 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

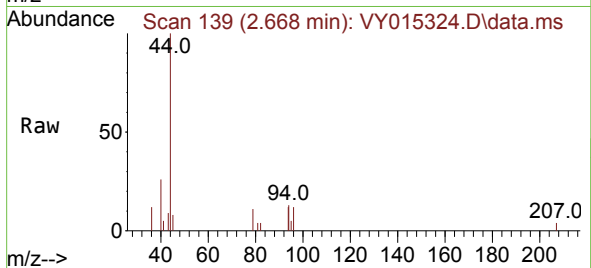
Tgt Ion: 50 Resp: 175
Ion Ratio Lower Upper
50 100
52 40.9 25.4 38.2#



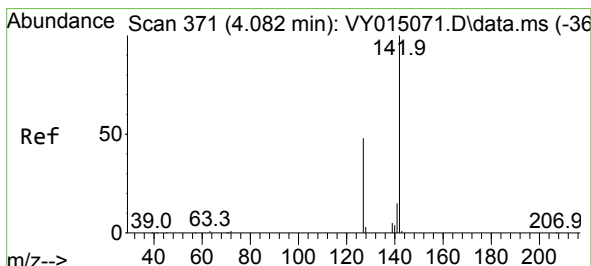
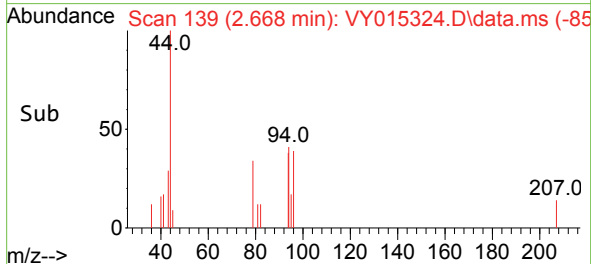
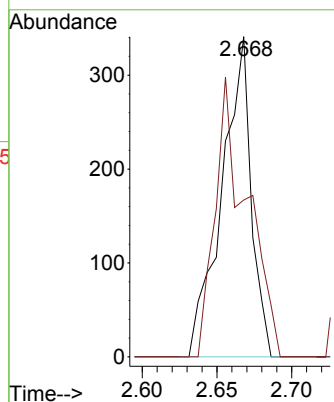


#5
Bromomethane
Concen: 2.834 ug/l
RT: 2.668 min Scan# 11
Delta R.T. 0.031 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Instrument :
MSVOA_Y
ClientSampleId :

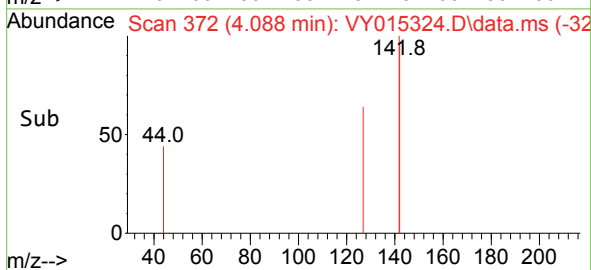
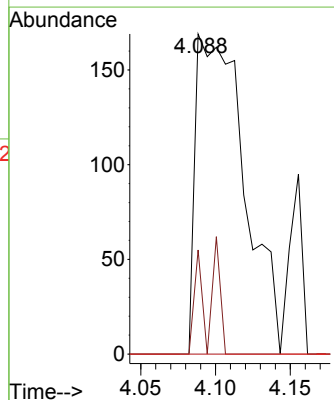
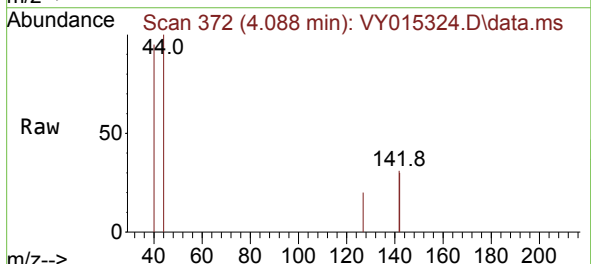


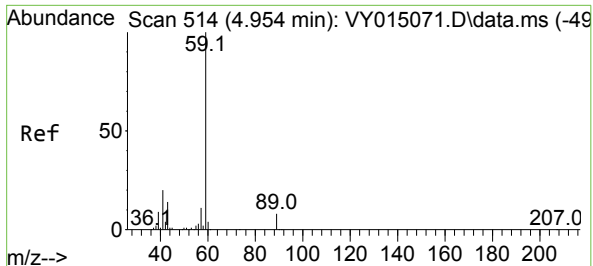
Tgt Ion: 94 Resp: 465
Ion Ratio Lower Upper
94 100
96 49.0 75.8 113.6#



#10
Methyl Iodide
Concen: 2.384 ug/l
RT: 4.088 min Scan# 372
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

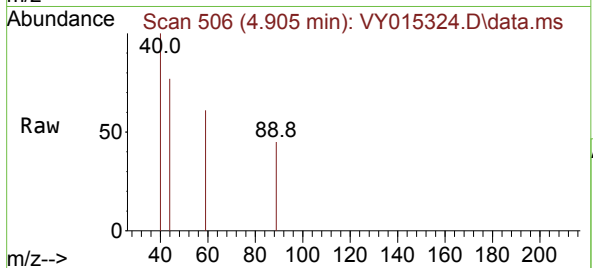
Tgt Ion: 142 Resp: 383
Ion Ratio Lower Upper
142 100
127 5.2 37.6 56.4#
141 0.0 11.8 17.8#



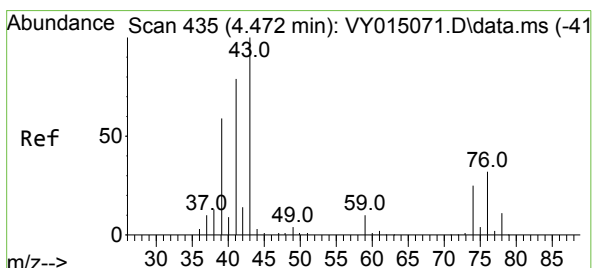
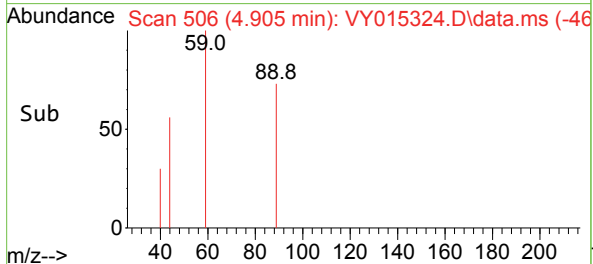
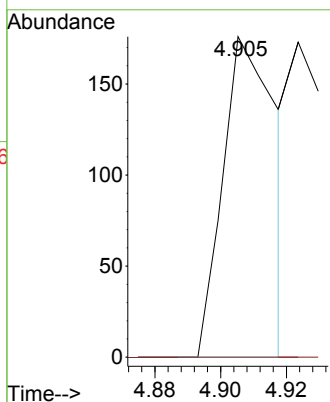


#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.905 min Scan# 50
Delta R.T. -0.043 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Instrument :
MSVOA_Y
ClientSampleId :

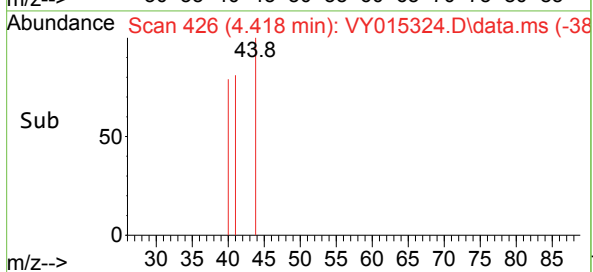
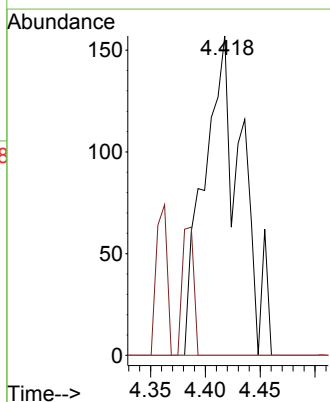
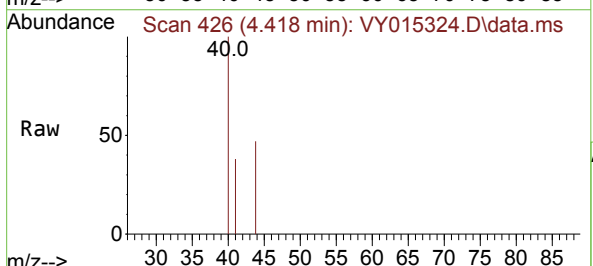


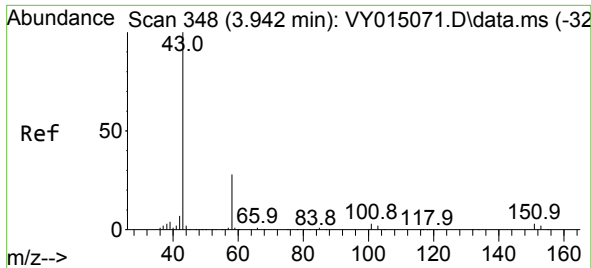
Tgt Ion: 59 Resp: 198
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#14
Allyl chloride
Concen: 1.564 ug/l
RT: 4.418 min Scan# 426
Delta R.T. -0.055 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Tgt Ion: 41 Resp: 379
Ion Ratio Lower Upper
41 100
39 0.0 58.0 87.0#
76 0.0 27.4 41.2#

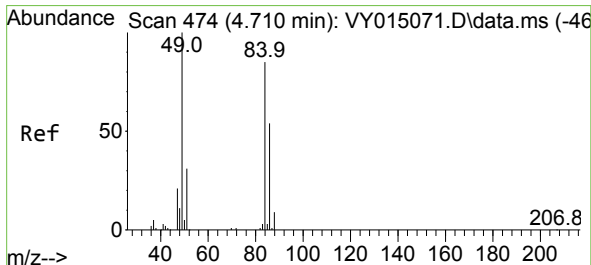
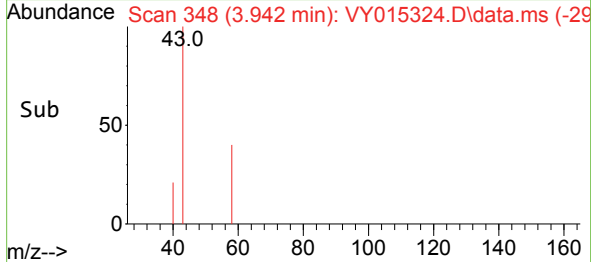
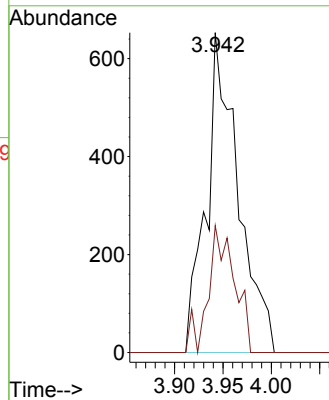
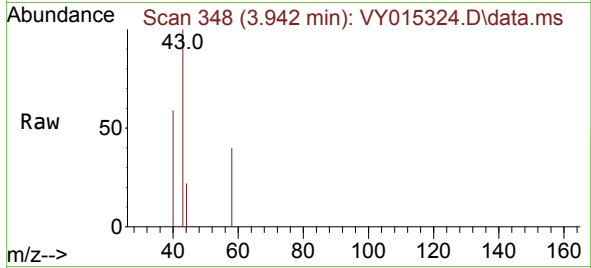




#16
Acetone
Concen: 19.402 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

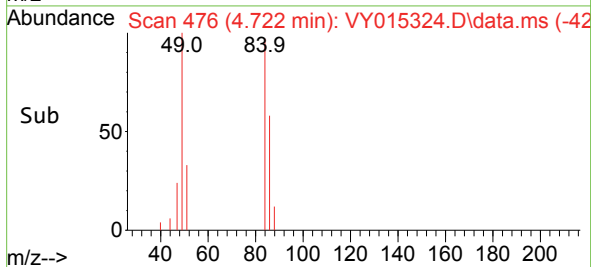
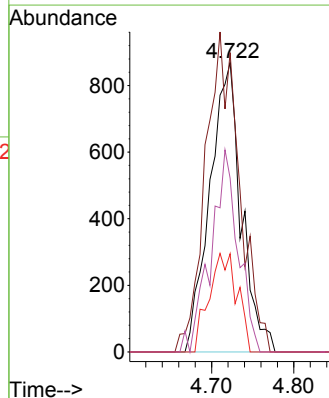
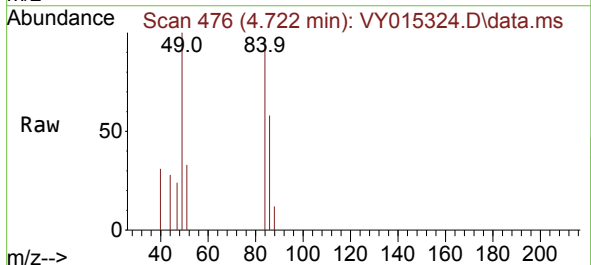
Instrument :
MSVOA_Y
ClientSampleId :

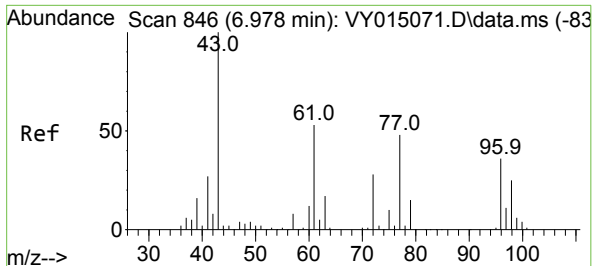
Tgt Ion: 43 Resp: 1494
Ion Ratio Lower Upper
43 100
58 39.7 22.7 34.1#



#20
Methylene Chloride
Concen: 8.942 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.012 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Tgt Ion: 84 Resp: 2306
Ion Ratio Lower Upper
84 100
49 103.5 106.9 160.3#
51 33.9 33.2 49.8
86 60.1 51.0 76.6





#25

2-Butanone

Concen: 21.334 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

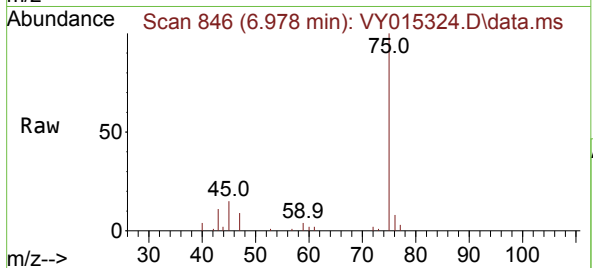
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Acq: 24 Aug 2023 20:01

Instrument :

MSVOA_Y

ClientSampleId :

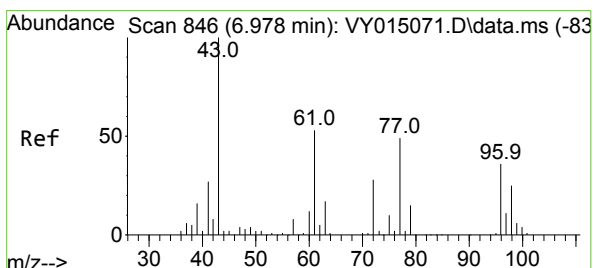
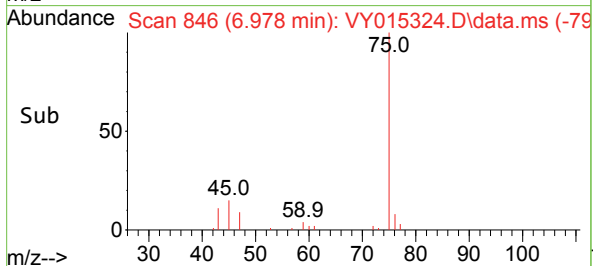
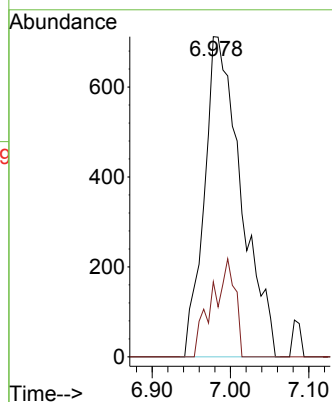


Tgt Ion: 43 Resp: 2326

Ion Ratio Lower Upper

43 100

72 23.5 20.5 30.7



#26

2,2-Dichloropropane

Concen: 2.644 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.012 min

Lab File: VY015324.D

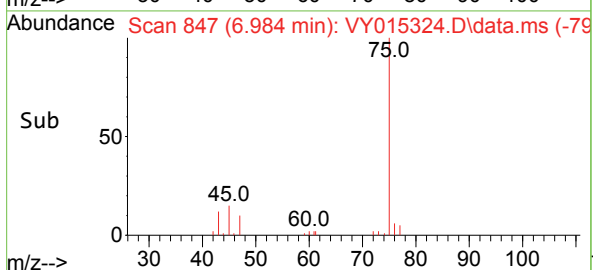
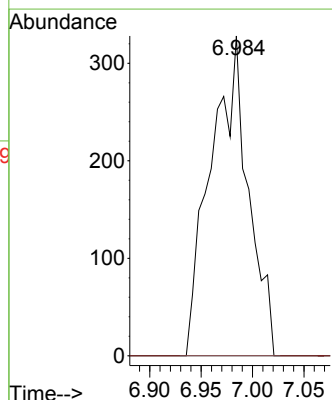
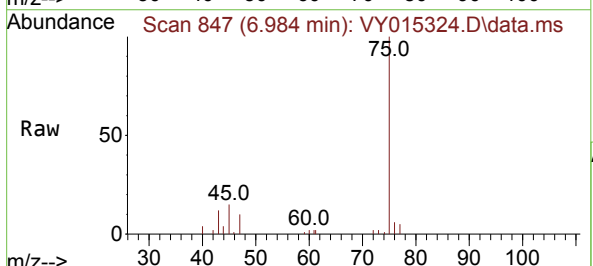
Acq: 24 Aug 2023 20:01

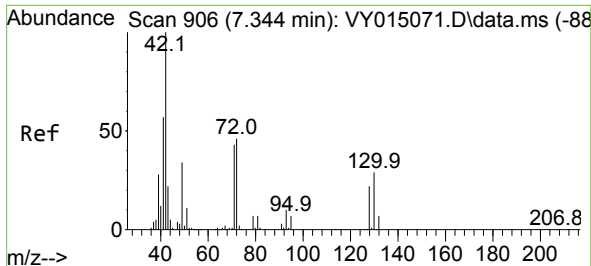
Tgt Ion: 77 Resp: 834

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#29

Tetrahydrofuran

Concen: 3.758 ug/l

RT: 7.332 min Scan# 904

Delta R.T. -0.012 min

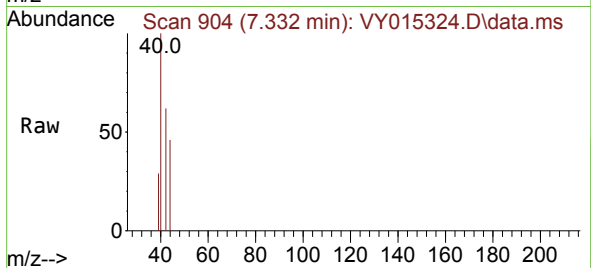
Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

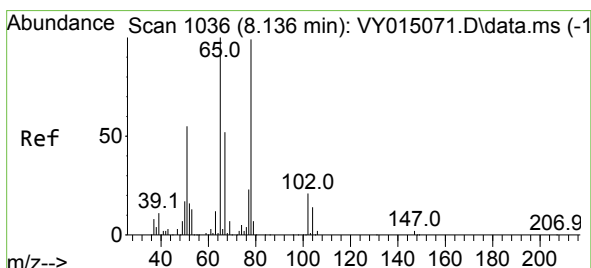
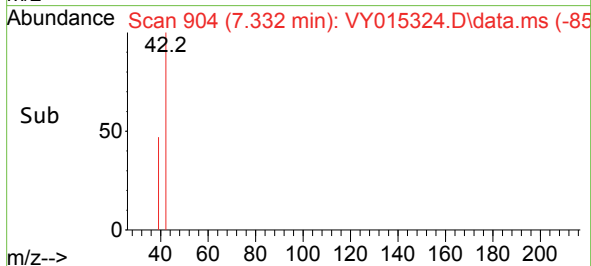
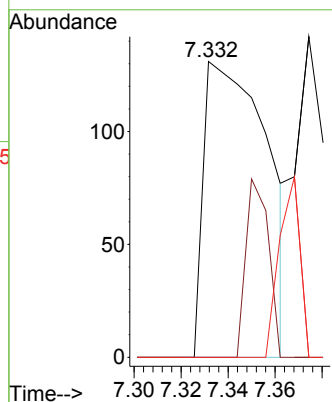
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	245
Ion	Ratio	Lower	Upper
42	100		
72	21.6	32.8	49.2#
71	0.0	31.0	46.4#



#33

1,2-Dichloroethane-d4

Concen: 58.050 ug/l

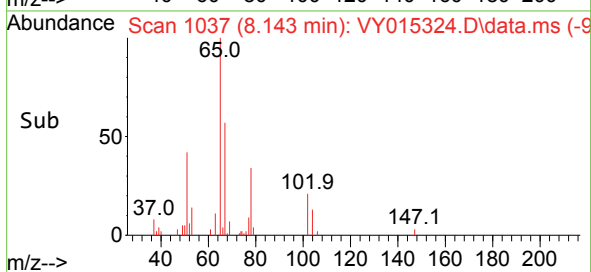
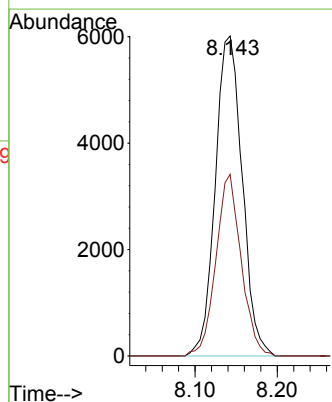
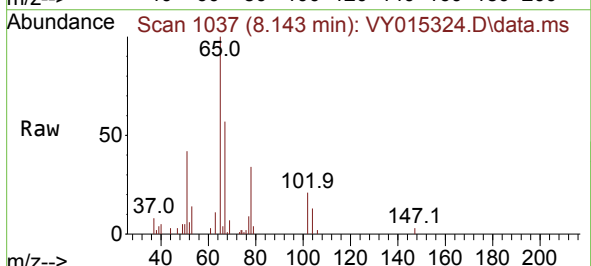
RT: 8.143 min Scan# 1037

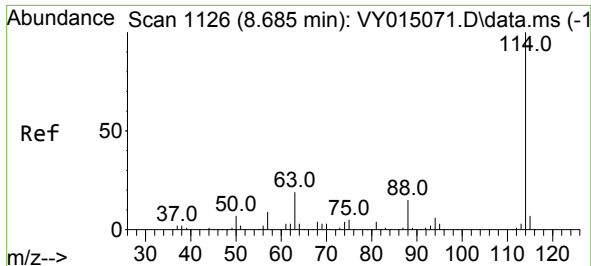
Delta R.T. 0.006 min

Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

Tgt Ion:	65	Resp:	13683
Ion	Ratio	Lower	Upper
65	100		
67	53.3	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: VY015324.D

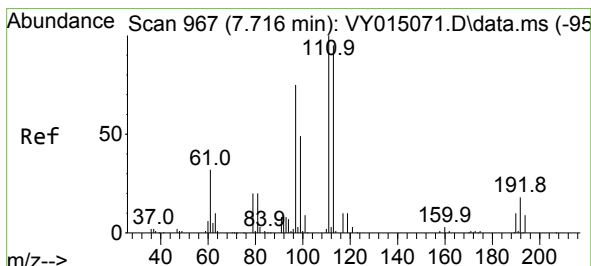
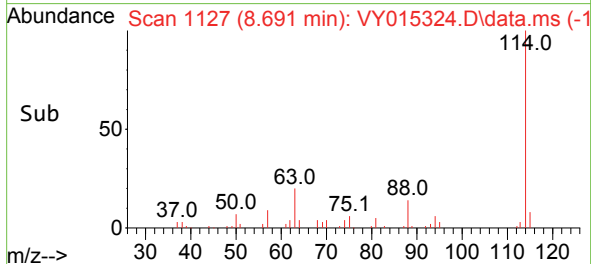
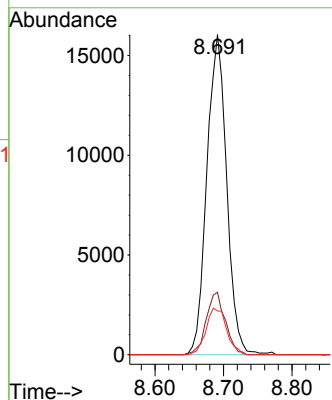
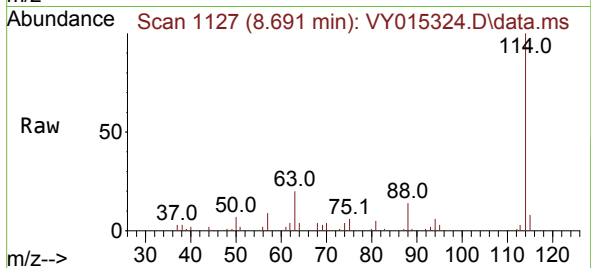
Acq: 24 Aug 2023 20:01

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MSVOA_Y

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Tgt Ion:114	Resp:	32285
Ion Ratio	Lower	Upper
114	100	
63	19.5	0.0 42.4
88	13.7	0.0 30.6



#35

Dibromofluoromethane

Concen: 52.099 ug/l

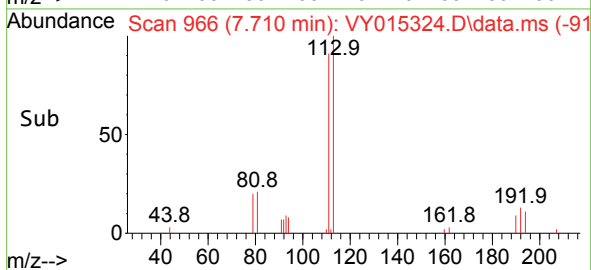
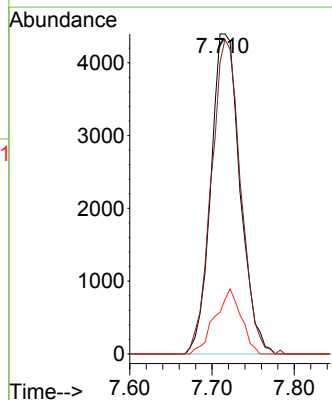
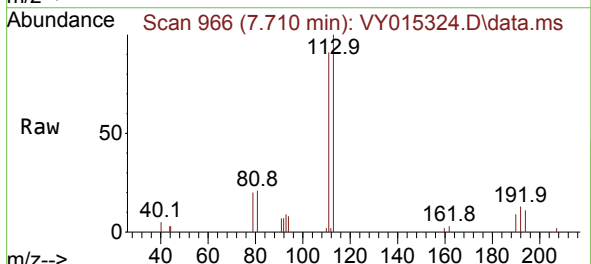
RT: 7.710 min Scan# 966

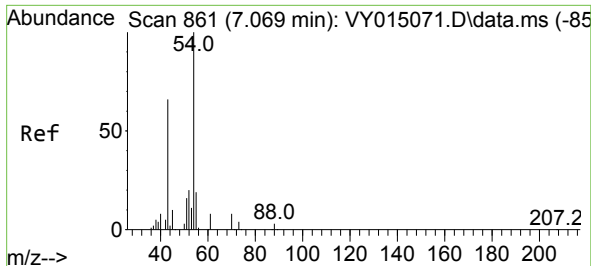
Delta R.T. -0.006 min

Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

Tgt Ion:113	Resp:	10821
Ion Ratio	Lower	Upper
113	100	
111	98.7	81.3 121.9
192	18.3	16.9 25.3





#37

Ethyl Acetate

Concen: 10.860 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.091 min

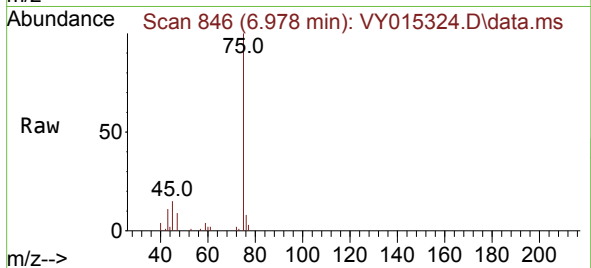
Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

Instrument :

MSVOA_Y

ClientSampleId :



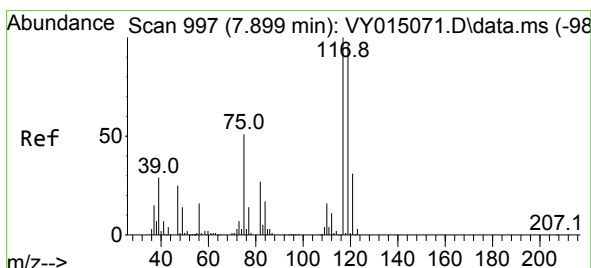
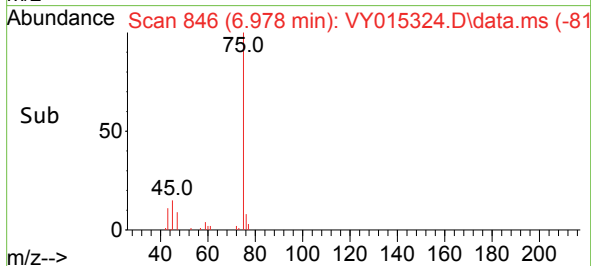
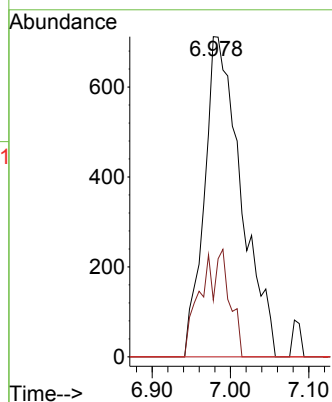
Tgt Ion: 43 Resp: 2326

Ion Ratio Lower Upper

43 100

61 25.7 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.788 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

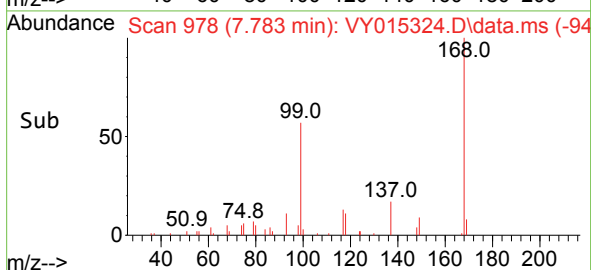
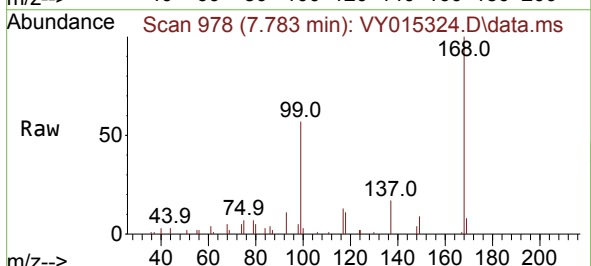
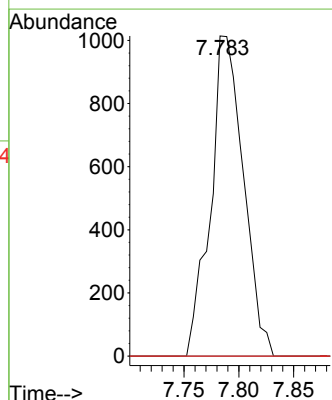
Tgt Ion: 117 Resp: 2118

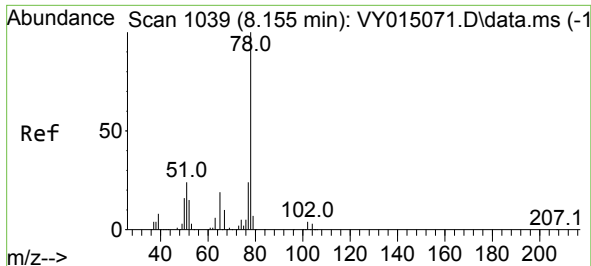
Ion Ratio Lower Upper

117 100

119 0.0 76.4 114.6#

121 0.0 25.8 38.6#

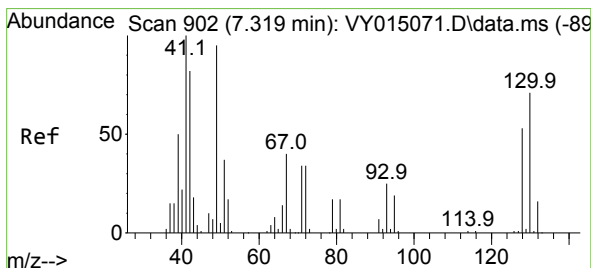
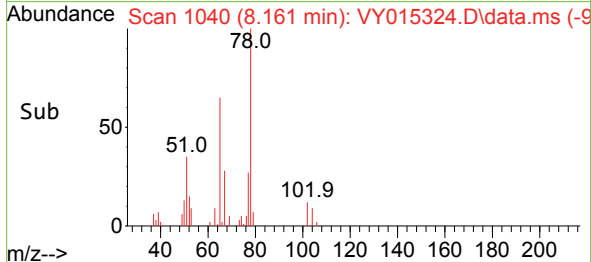
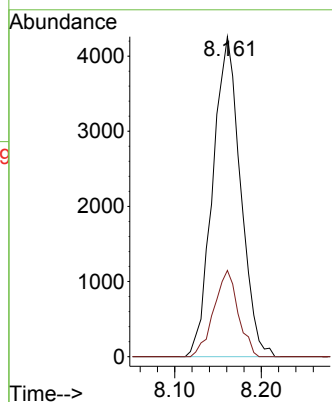
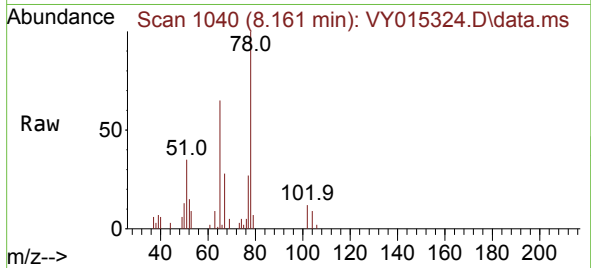




#40
Benzene
Concen: 13.647 ug/l
RT: 8.161 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

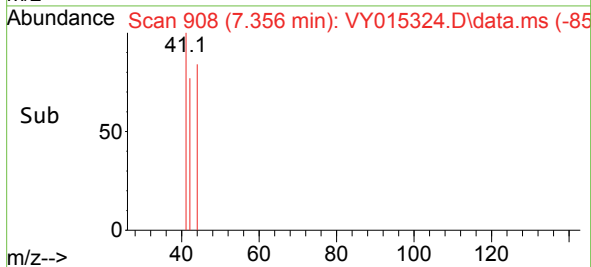
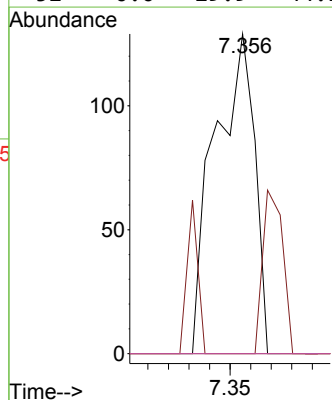
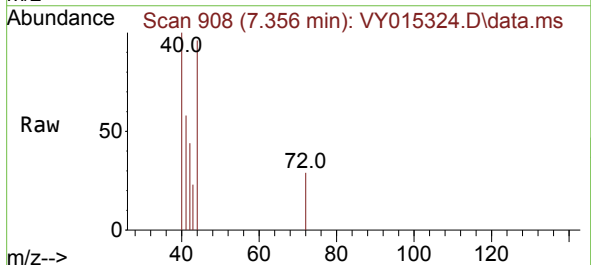
Instrument :
MSVOA_Y
ClientSampleId :

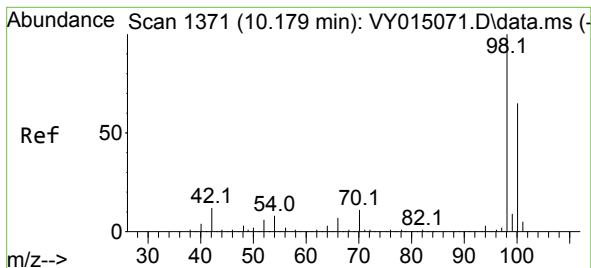
Tgt Ion: 78 Resp: 9481
Ion Ratio Lower Upper
78 100
77 26.9 19.0 28.6



#41
Methacrylonitrile
Concen: 1.575 ug/l
RT: 7.356 min Scan# 908
Delta R.T. 0.049 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Tgt Ion: 41 Resp: 174
Ion Ratio Lower Upper
41 100
39 25.9 52.1 78.1#
67 0.0 66.2 99.2#
52 0.0 29.9 44.9#

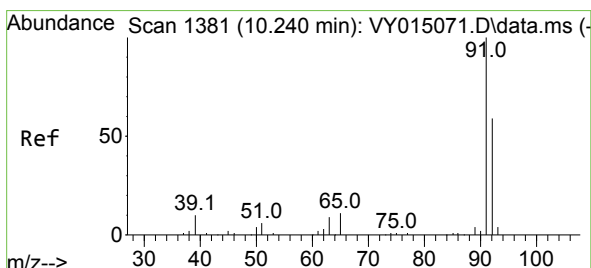
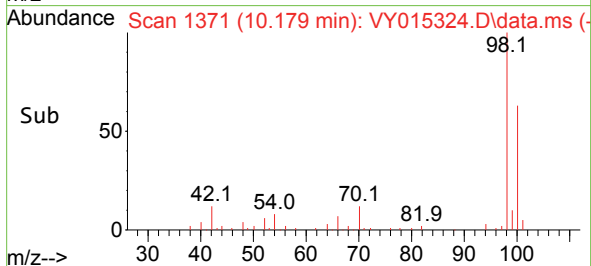
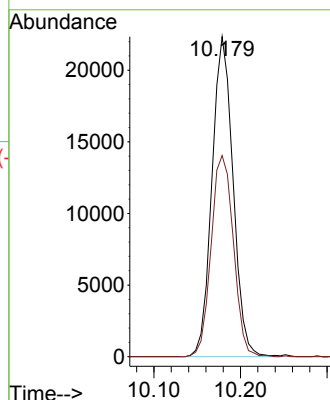
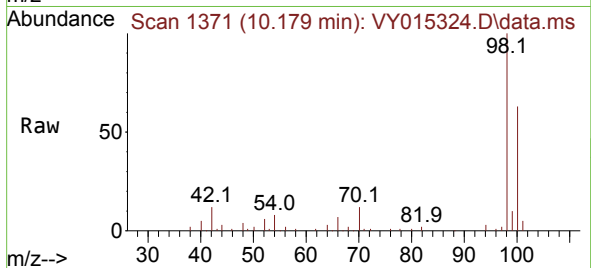




#50
Toluene-d8
Concen: 48.873 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

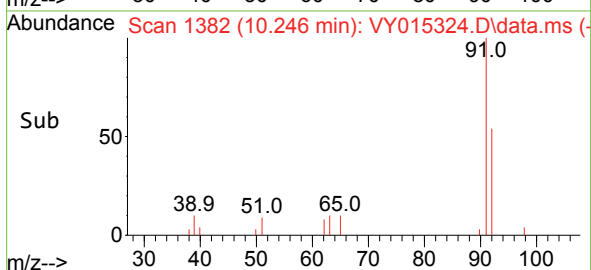
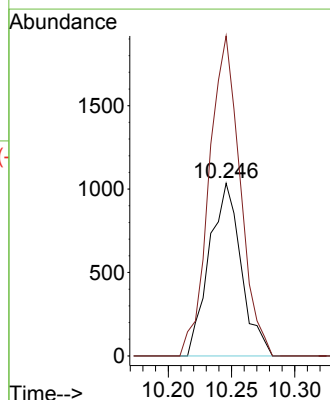
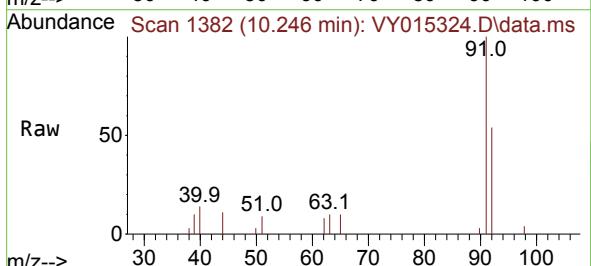
Instrument :
MSVOA_Y
ClientSampleId :

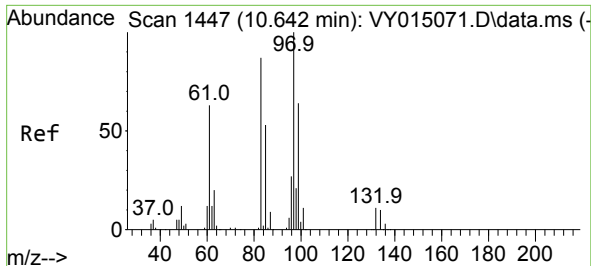
Tgt Ion: 98 Resp: 37788
Ion Ratio Lower Upper
98 100
100 66.3 50.1 75.1



#52
Toluene
Concen: 3.964 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

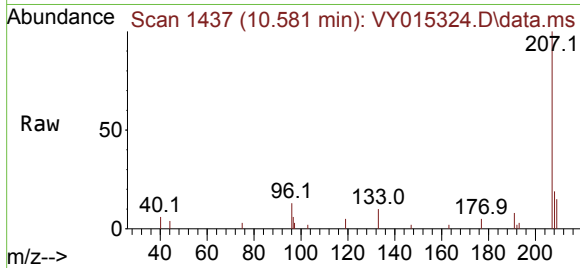
Tgt Ion: 92 Resp: 1815
Ion Ratio Lower Upper
92 100
91 180.7 143.8 215.6



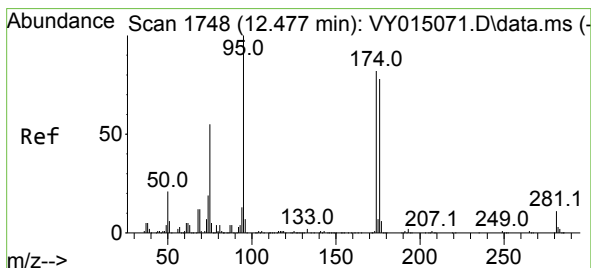
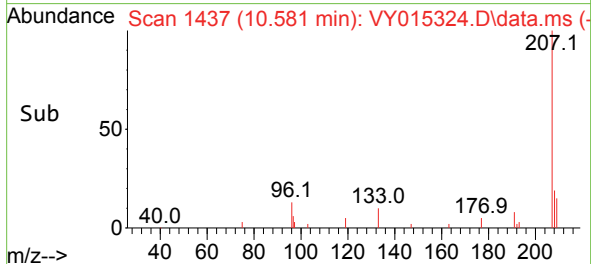
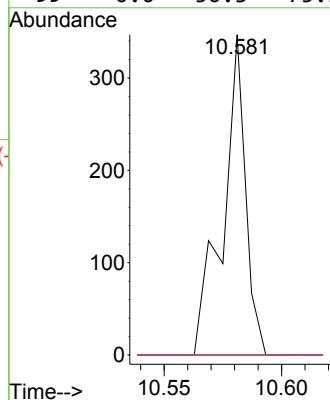


#55
 1,1,2-Trichloroethane
 Concen: 1.240 ug/l
 RT: 10.581 min Scan# 1447
 Delta R.T. -0.061 min
 Lab File: VY015324.D
 Acq: 24 Aug 2023 20:01

Instrument :
 MSVOA_Y
 ClientSampleId :

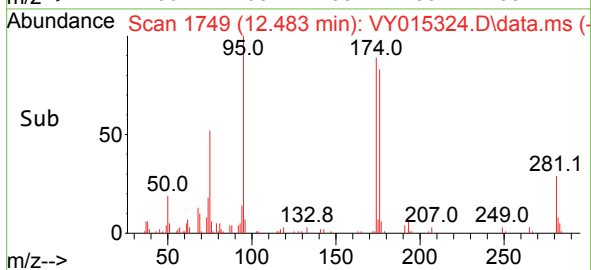
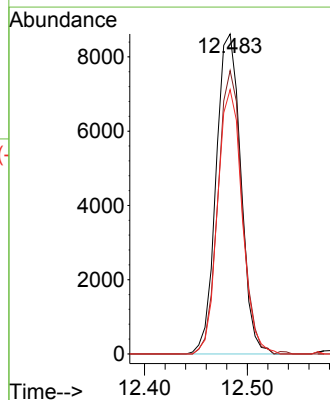
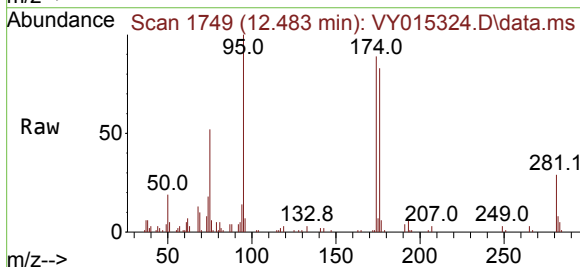


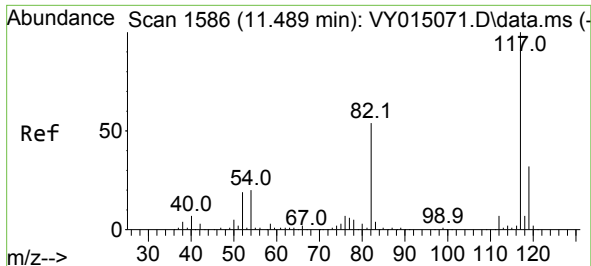
Tgt Ion: 97	Resp: 233
Ion Ratio	Lower Upper
97 100	
83 0.0	72.0 108.0#
85 0.0	45.4 68.0#
99 0.0	50.3 75.5#



#62
 4-Bromofluorobenzene
 Concen: 50.835 ug/l
 RT: 12.483 min Scan# 1749
 Delta R.T. 0.006 min
 Lab File: VY015324.D
 Acq: 24 Aug 2023 20:01

Tgt Ion: 95	Resp: 14356
Ion Ratio	Lower Upper
95 100	
174 86.8	0.0 178.2
176 82.1	0.0 173.8

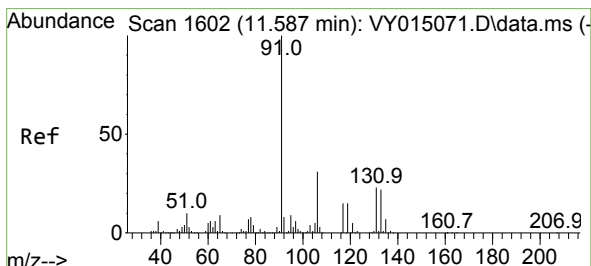
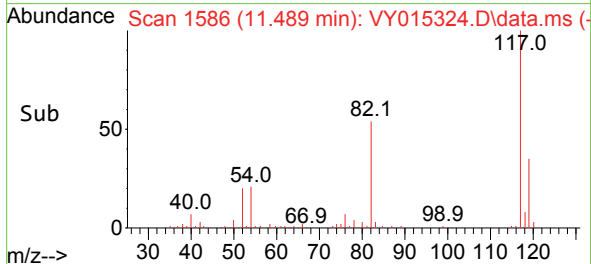
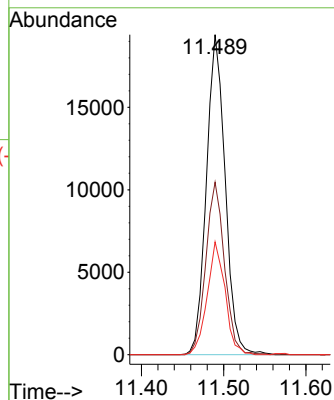
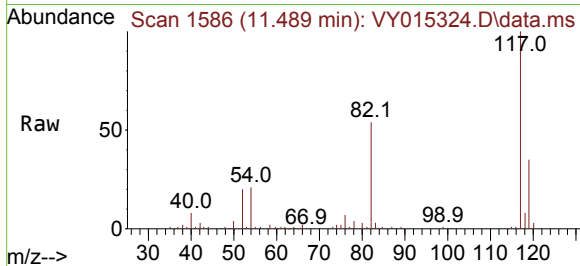




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

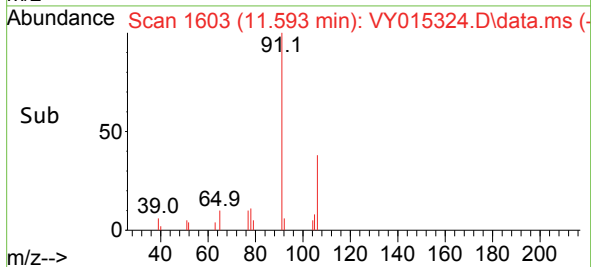
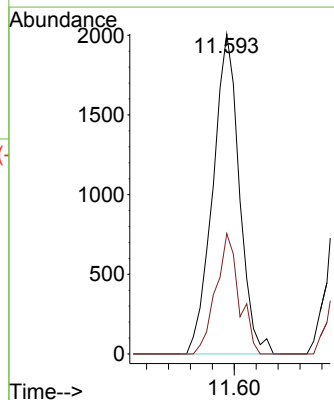
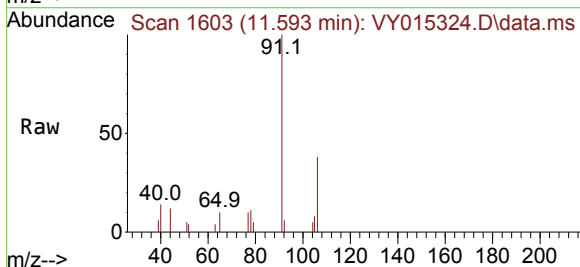
Instrument :
MSVOA_Y
ClientSampleId :

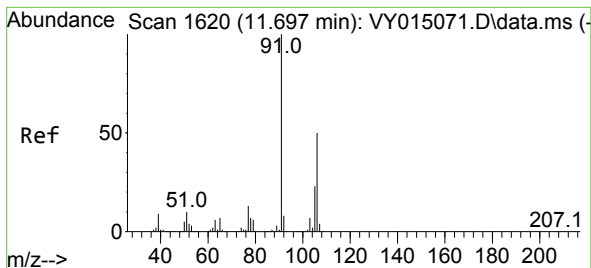
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.9	43.4	65.0
119	35.3	26.3	39.5



#67
Ethyl Benzene
Concen: 3.420 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	37.6	24.6	36.8#

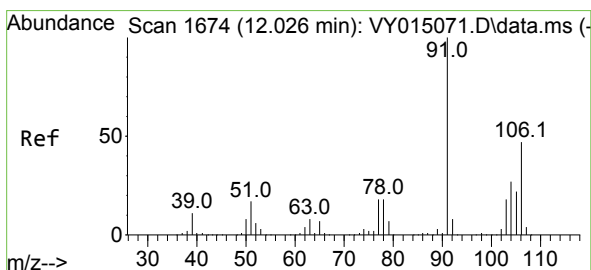
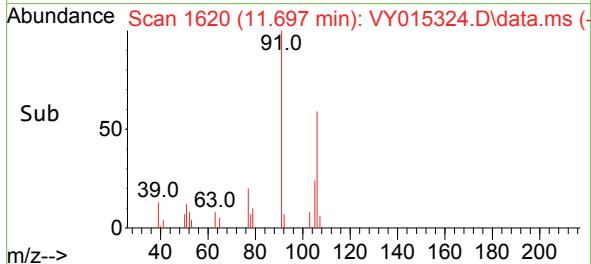
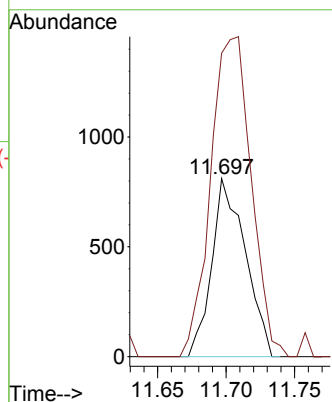
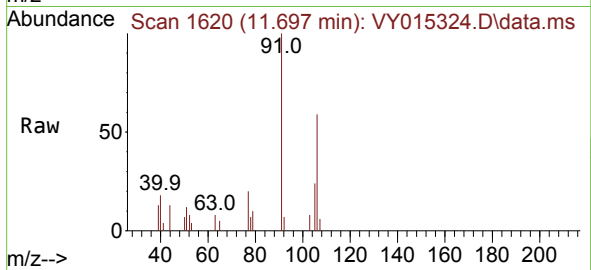




#68
m/p-Xylenes
Concen: 3.691 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

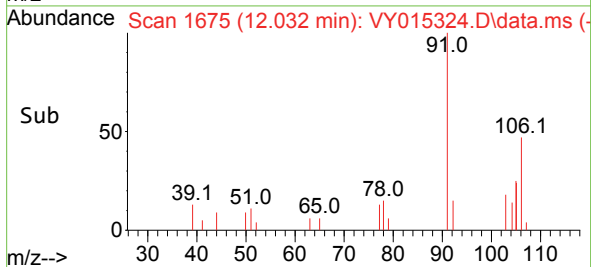
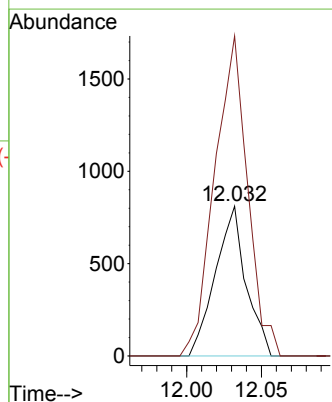
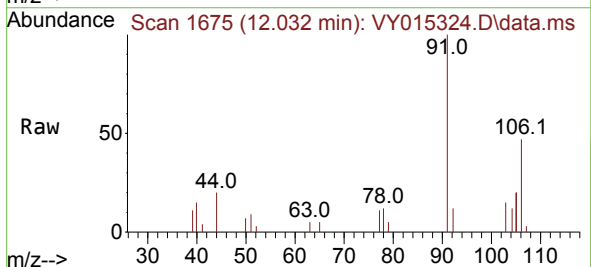
Instrument :
MSVOA_Y
ClientSampleId :

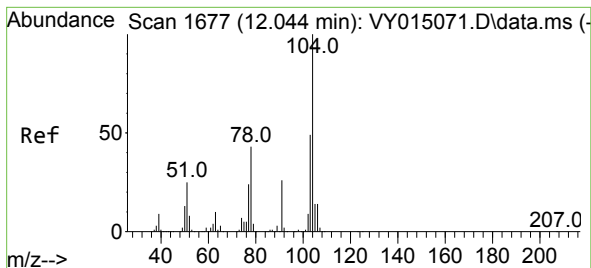
Tgt Ion:106 Resp: 1381
Ion Ratio Lower Upper
106 100
91 217.2 166.1 249.1



#69
o-Xylene
Concen: 3.101 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Tgt Ion:106 Resp: 1156
Ion Ratio Lower Upper
106 100
91 228.9 108.1 324.3





#70

Styrene

Concen: 1.155 ug/l

RT: 12.044 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015324.D

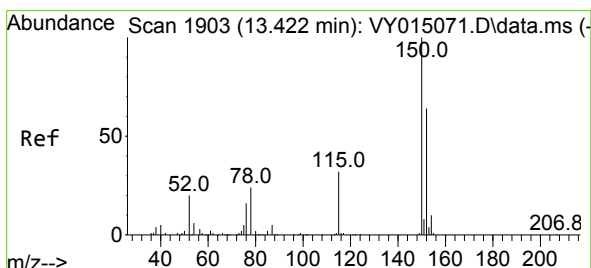
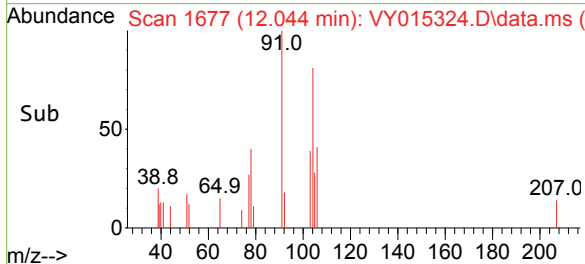
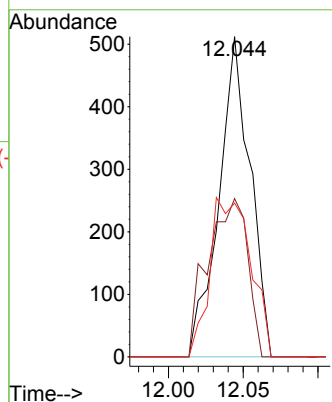
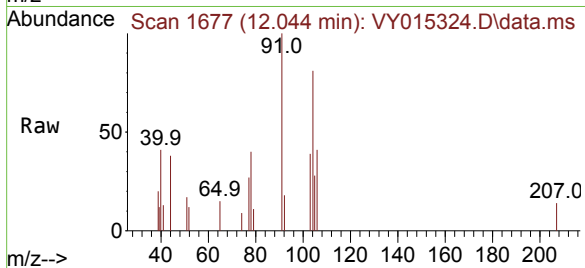
Acq: 24 Aug 2023 20:01

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:104	Resp:	745
Ion Ratio	Lower	Upper
104	100	
78	62.8	41.5 62.3#
103	64.6	44.6 67.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

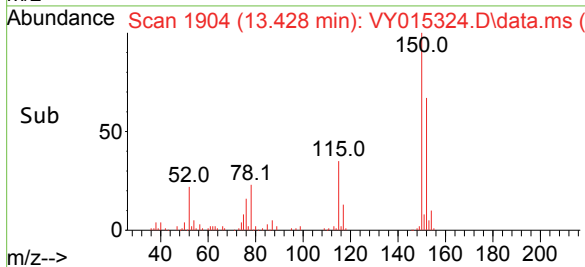
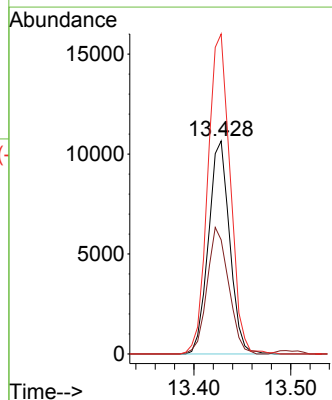
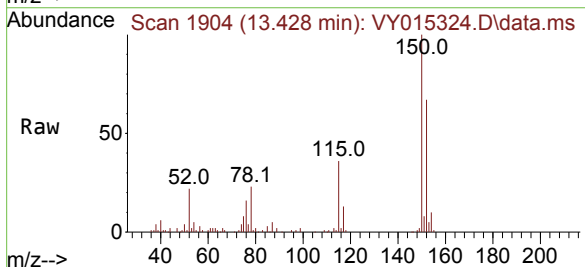
RT: 13.428 min Scan# 1904

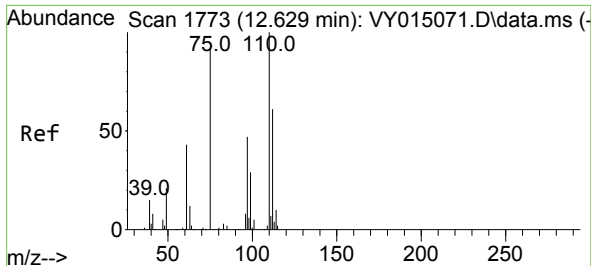
Delta R.T. 0.006 min

Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

Tgt Ion:152	Resp:	16230
Ion Ratio	Lower	Upper
152	100	
115	60.5	28.8 86.5
150	158.2	0.0 348.8

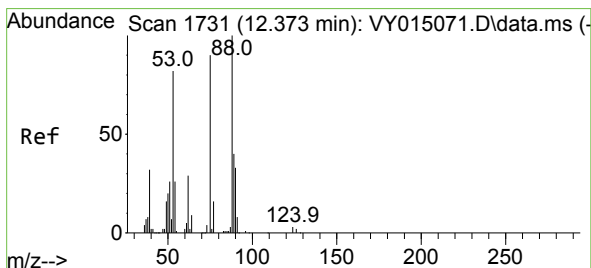
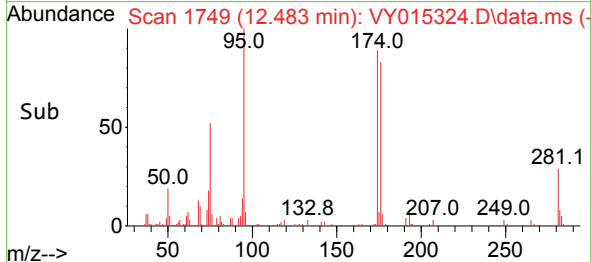
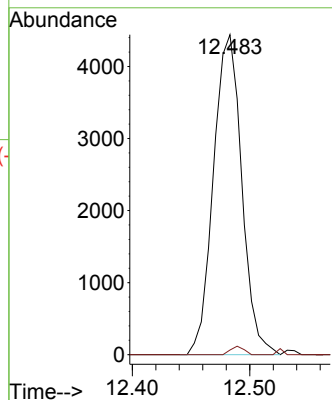
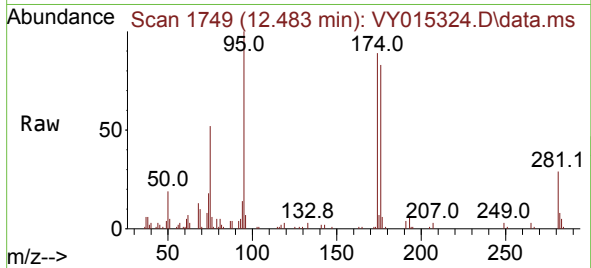




#76
1,2,3-Trichloropropane
Concen: 37.747 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.146 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

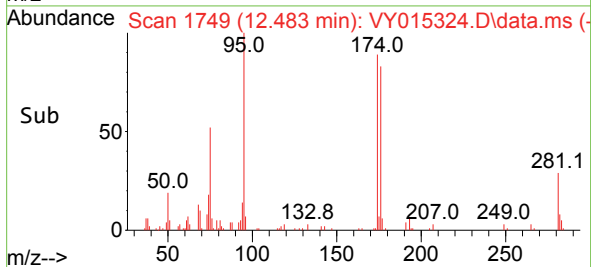
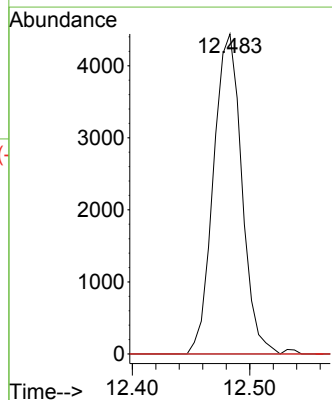
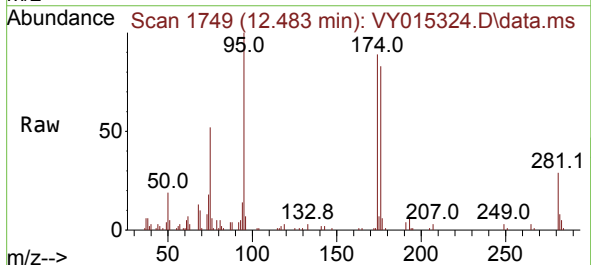
Instrument :
MSVOA_Y
ClientSampleId :

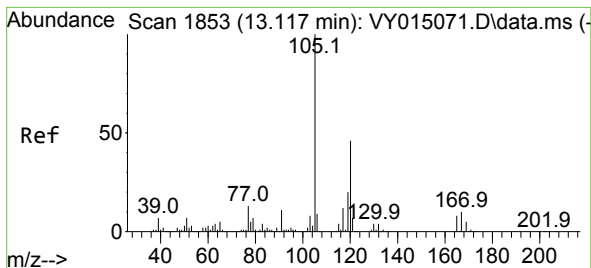
Tgt Ion: 75 Resp: 7443
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.910 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.110 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Tgt Ion: 75 Resp: 7443
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 2.891 ug/l

RT: 13.123 min Scan# 1853

Delta R.T. 0.006 min

Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

Instrument :

MSVOA_Y

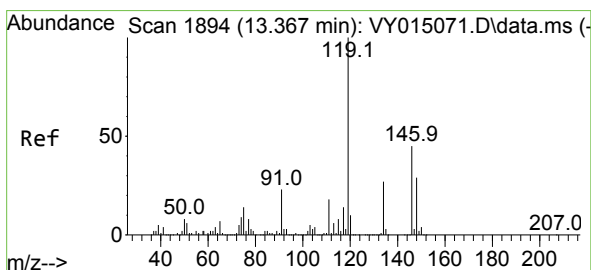
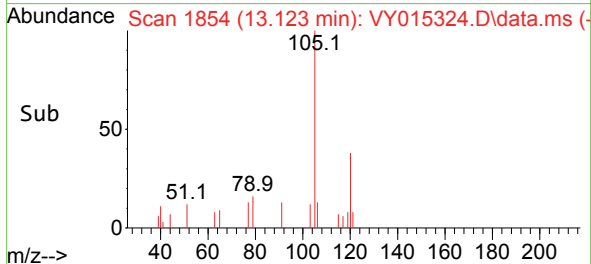
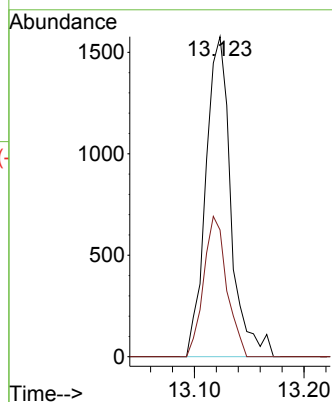
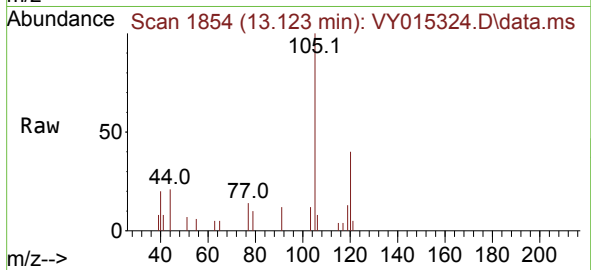
ClientSampleId :

Tgt Ion:105 Resp: 2513

Ion Ratio Lower Upper

105 100

120 40.4 22.2 66.6



#86

p-Isopropyltoluene

Concen: 1.644 ug/l

RT: 13.337 min Scan# 1889

Delta R.T. -0.030 min

Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

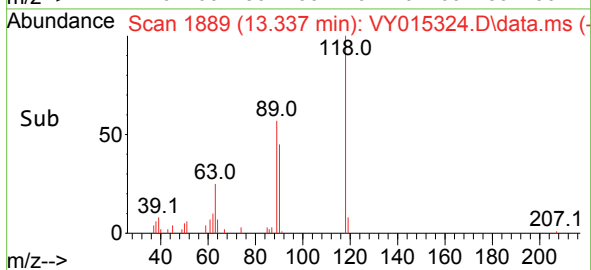
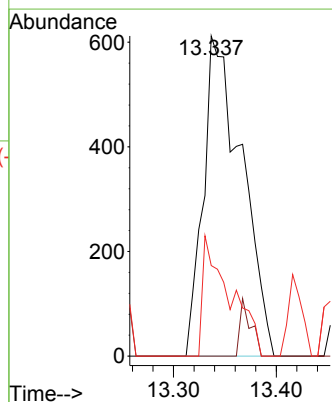
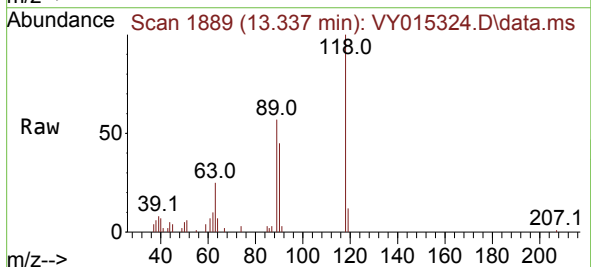
Tgt Ion:119 Resp: 1589

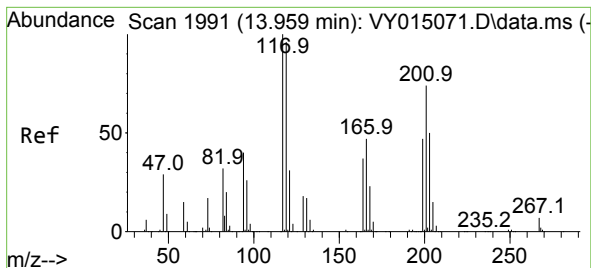
Ion Ratio Lower Upper

119 100

134 0.0 13.3 39.8#

91 26.8 12.4 37.4

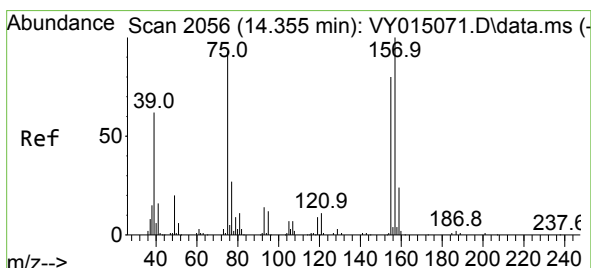
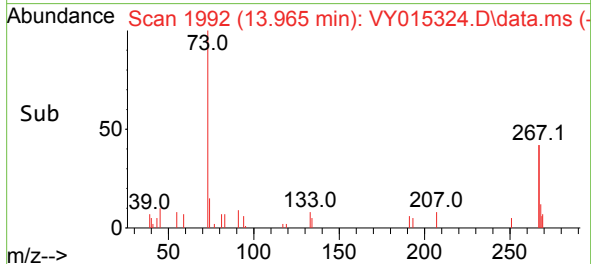
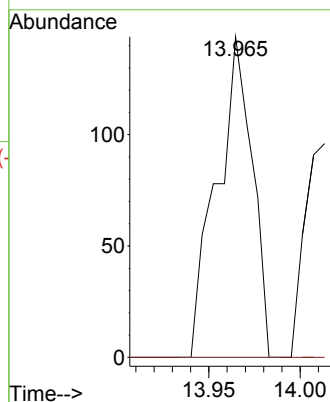
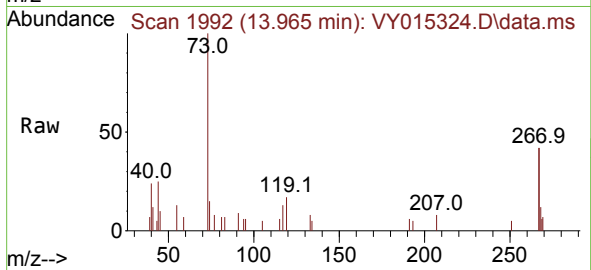




#90
Hexachloroethane
Concen: 1.017 ug/l
RT: 13.965 min Scan# 1991
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

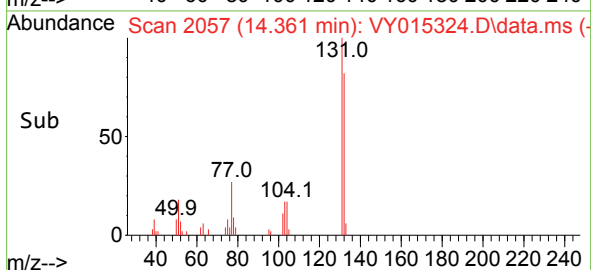
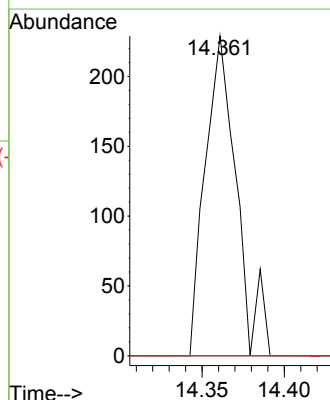
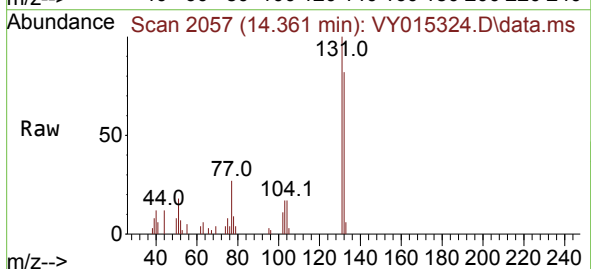
Instrument :
MSVOA_Y
ClientSampleId :

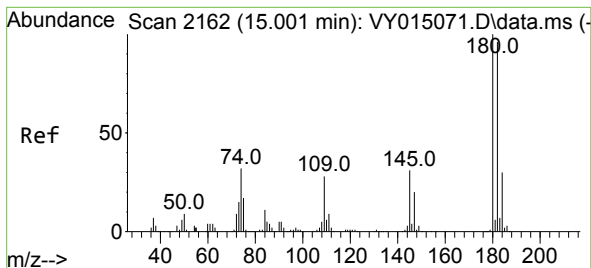
Tgt Ion:117 Resp: 195
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.754 ug/l
RT: 14.361 min Scan# 2057
Delta R.T. 0.006 min
Lab File: VY015324.D
Acq: 24 Aug 2023 20:01

Tgt Ion: 75 Resp: 303
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#





#93

1,2,4-Trichlorobenzene

Concen: 1.302 ug/l

RT: 15.013 min Scan# 2164

Delta R.T. 0.006 min

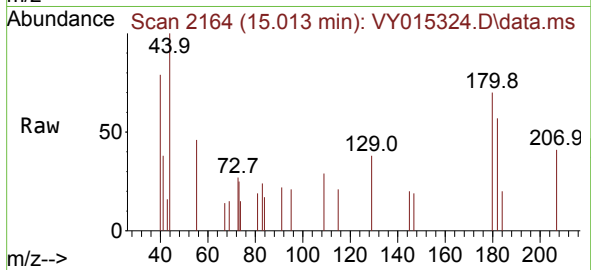
Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

Instrument :

MSVOA_Y

ClientSampleId :



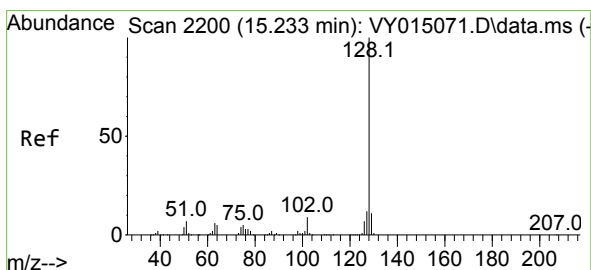
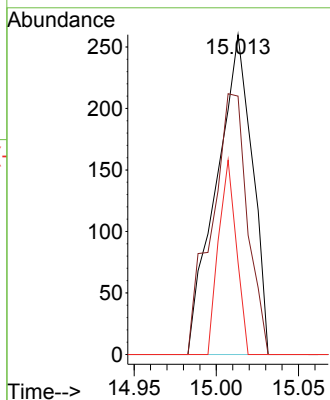
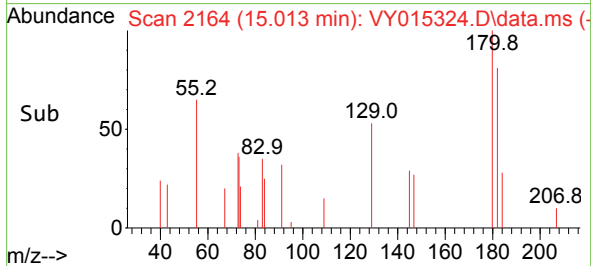
Tgt Ion:180 Resp: 394

Ion Ratio Lower Upper

180 100

182 81.0 47.0 141.2

145 30.2 14.5 43.5



#95

Naphthalene

Concen: 379.418 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. 0.000 min

Lab File: VY015324.D

Acq: 24 Aug 2023 20:01

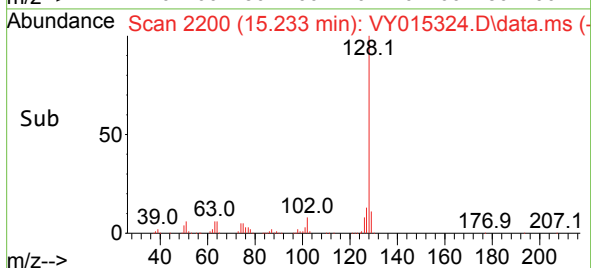
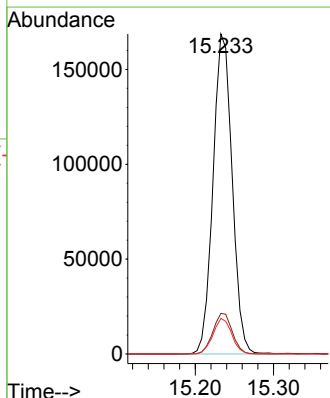
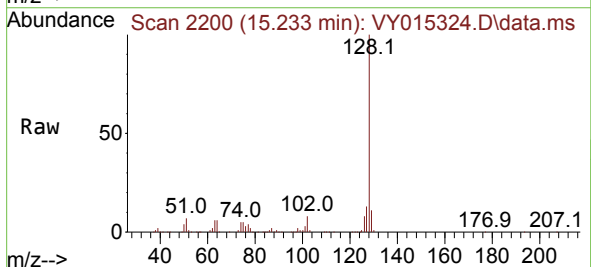
Tgt Ion:128 Resp: 286016

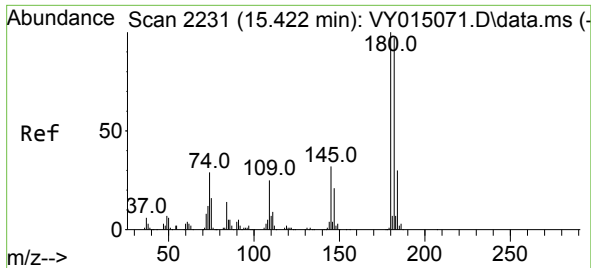
Ion Ratio Lower Upper

128 100

127 12.8 10.8 16.2

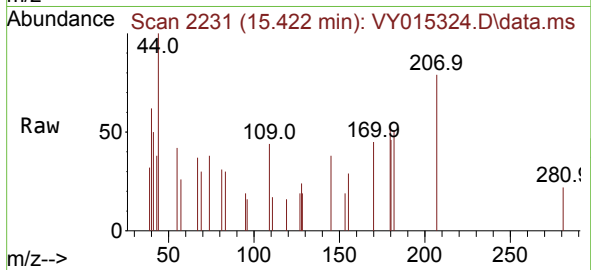
129 10.9 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.877 ug/l
 RT: 15.422 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY015324.D
 Acq: 24 Aug 2023 20:01

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	180	Resp:	513
Ion	Ratio	Lower	Upper
180	100		
182	78.9	47.3	141.8
145	49.3	15.4	46.2#

