

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062323\
 Data File : VY014413.D
 Acq On : 23 Jun 2023 17:25
 Operator : KP/MD
 Sample : 03357-04RE
 Misc : 3.25g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-SCAN-01-G

Quant Time: Jun 23 23:12:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 23 17:18:46 2023
 Response via : Initial Calibration

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

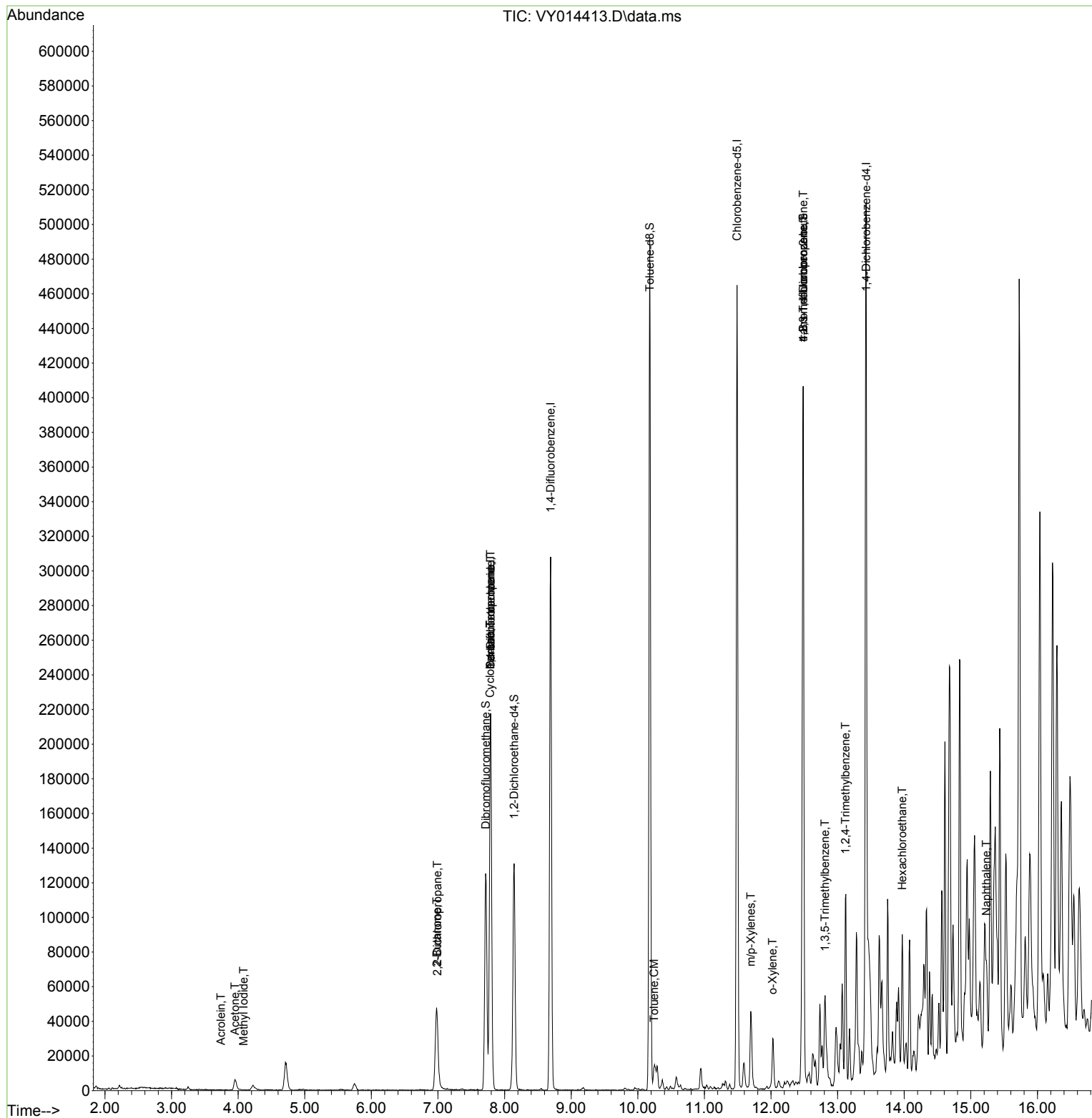
Internal Standards						
1) Pentafluorobenzene	7.789	168	169788	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	259096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	246505	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	124837	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	111856	53.061	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.120%	
35) Dibromofluoromethane	7.716	113	81461	50.889	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.780%	
50) Toluene-d8	10.179	98	310647	48.820	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.640%	
62) 4-Bromofluorobenzene	12.483	95	108658	47.831	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 95.660%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.082	142	22	2.885	ug/l #	38
11) Tert butyl alcohol	4.985	59	1086	Below Cal	#	89
13) Acrolein	3.741	56	20	4.420	ug/l #	14
16) Acetone	3.954	43	11142	16.797	ug/l #	86
25) 2-Butanone	6.984	43	3052	3.694	ug/l #	75
26) 2,2-Dichloropropane	6.990	77	3421	1.097	ug/l #	54
31) Cyclohexane	7.783	56	3665	1.408	ug/l #	35
36) 1,1-Dichloropropene	7.789	75	12475	5.057	ug/l #	52
38) Carbon Tetrachloride	7.789	117	17043	5.490	ug/l #	17
52) Toluene	10.246	92	4924	1.095	ug/l	89
68) m/p-Xylenes	11.697	106	12720	3.611	ug/l	98
69) o-Xylene	12.026	106	7404	2.209	ug/l	93
76) 1,2,3-Trichloropropane	12.483	75	62460	39.886	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	14223	1.956	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.483	75	62460	90.806	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	57075	7.921	ug/l	97
90) Hexachloroethane	13.971	117	3307	2.227	ug/l #	8
95) Naphthalene	15.233	128	30483	5.671	ug/l #	94

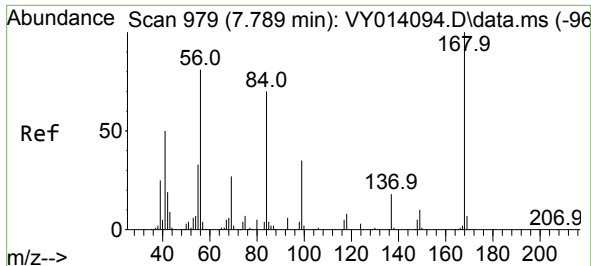
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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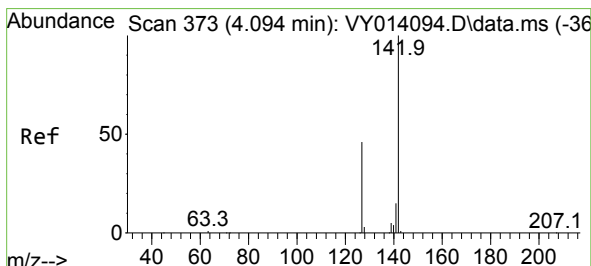
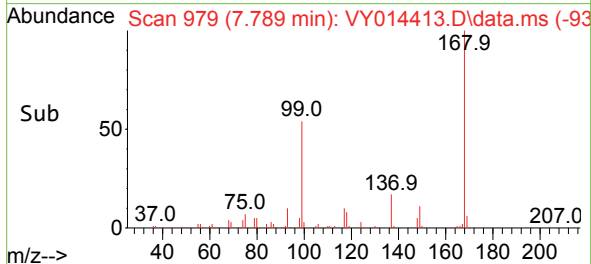
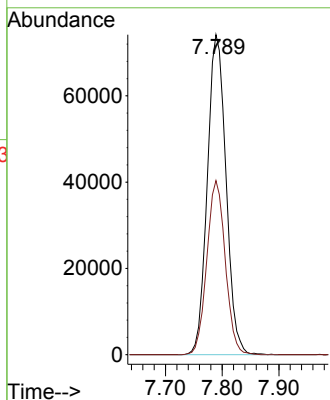
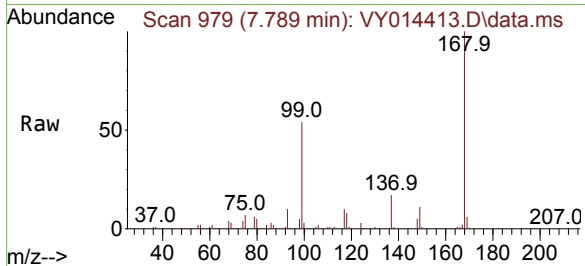




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

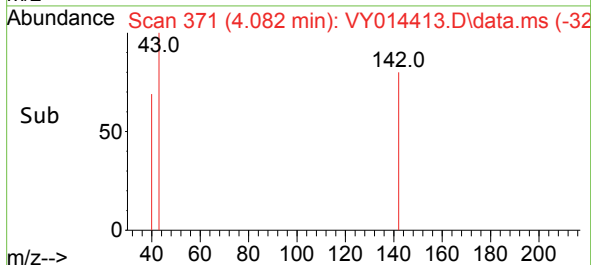
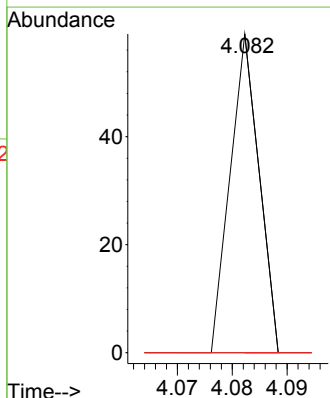
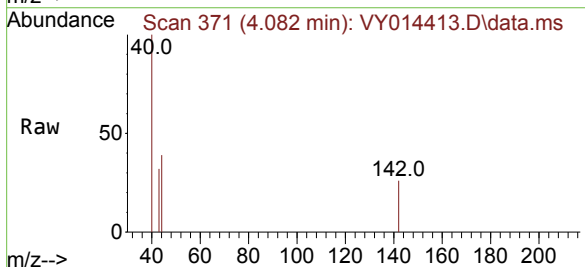
Instrument :
MSVOA_Y
ClientSampleId :
WC-SCAN-01-G

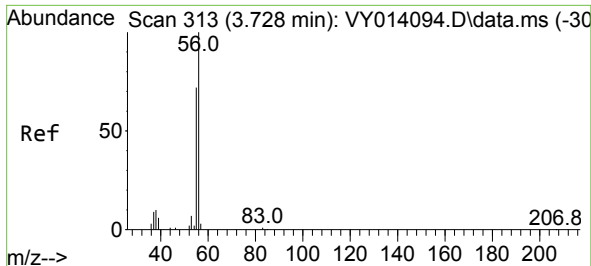
Tgt Ion:168 Resp: 169788
Ion Ratio Lower Upper
168 100
99 54.4 43.4 65.0



#10
Methyl Iodide
Concen: 2.885 ug/l
RT: 4.082 min Scan# 371
Delta R.T. -0.012 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

Tgt Ion:142 Resp: 22
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#

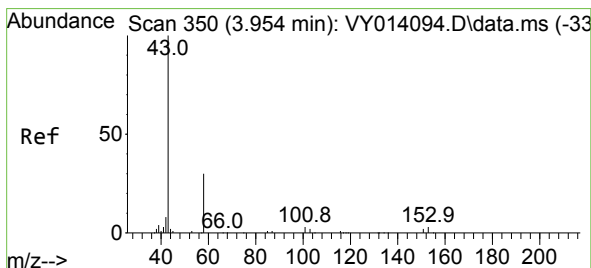
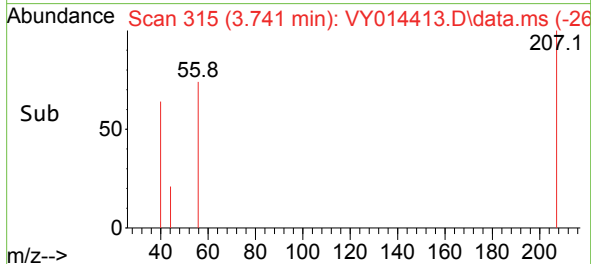
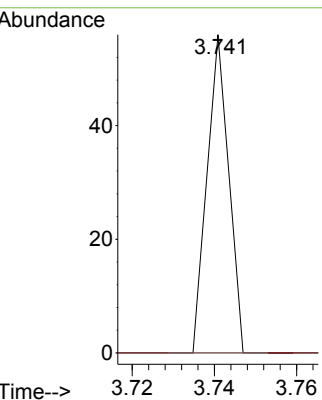
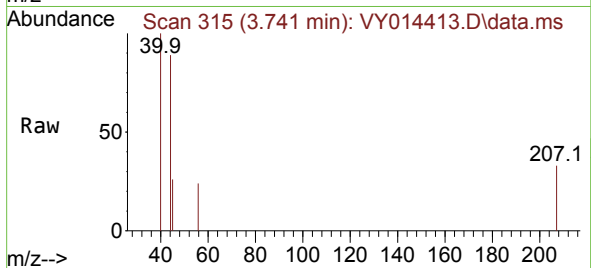




#13
Acrolein
Concen: 4.420 ug/l
RT: 3.741 min Scan# 313
Delta R.T. 0.013 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

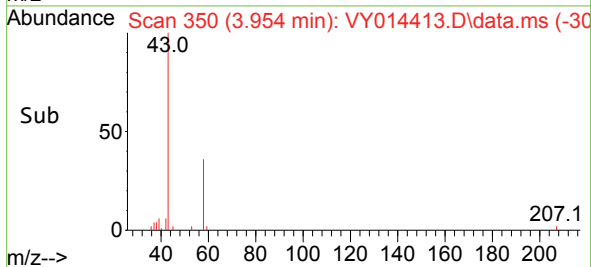
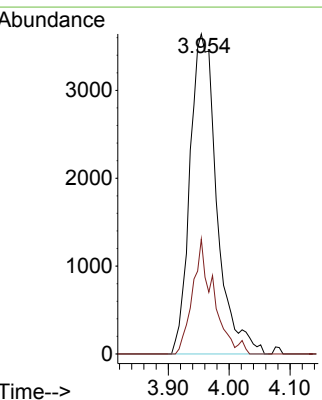
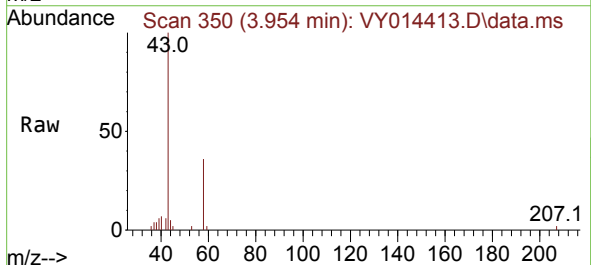
Instrument :
MSVOA_Y
ClientSampleId :
WC-SCAN-01-G

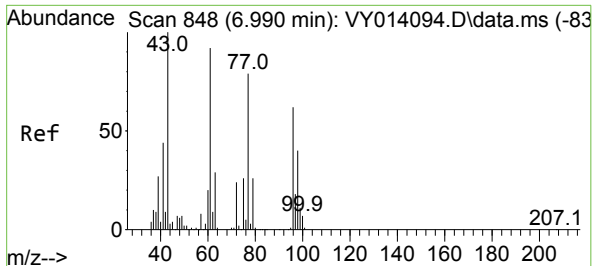
Tgt Ion: 56 Resp: 20
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#16
Acetone
Concen: 16.797 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

Tgt Ion: 43 Resp: 11142
Ion Ratio Lower Upper
43 100
58 35.9 22.7 34.1#





#25

2-Butanone

Concen: 3.694 ug/l

RT: 6.984 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY014413.D

Acq: 23 Jun 2023 17:25

Instrument :

MSVOA_Y

ClientSampleId :

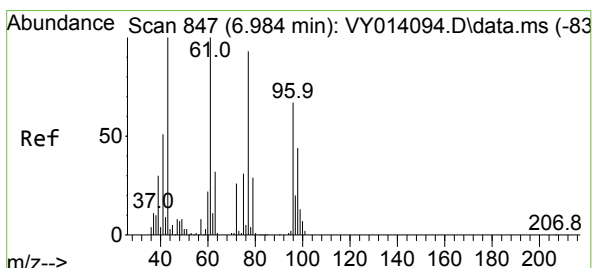
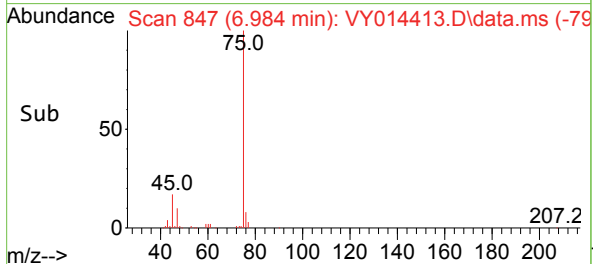
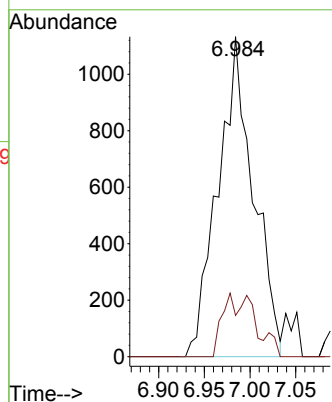
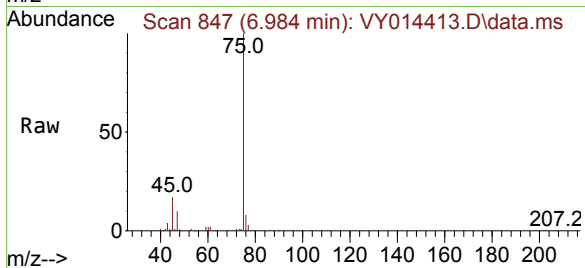
WC-SCAN-01-G

Tgt Ion: 43 Resp: 3052

Ion Ratio Lower Upper

43 100

72 12.9 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 1.097 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY014413.D

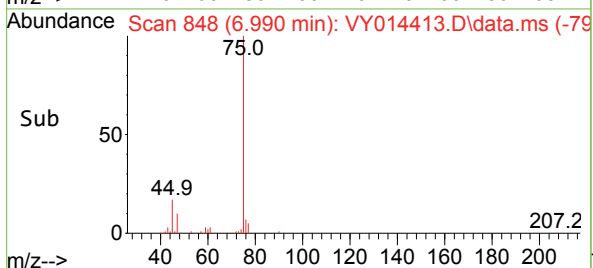
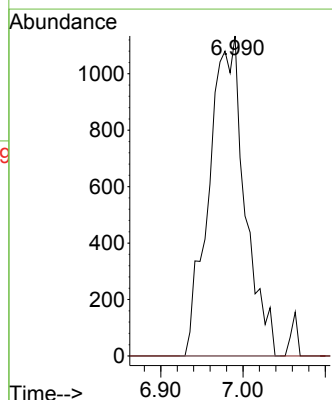
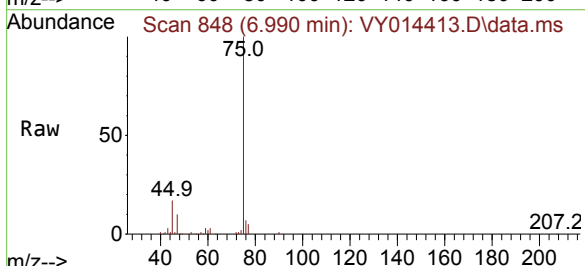
Acq: 23 Jun 2023 17:25

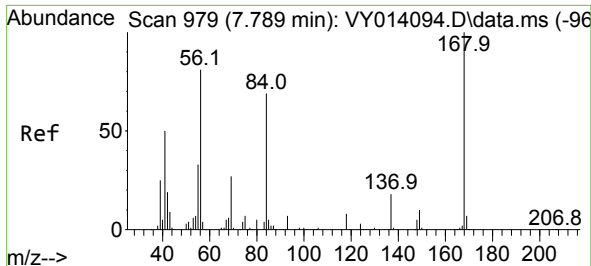
Tgt Ion: 77 Resp: 3421

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#

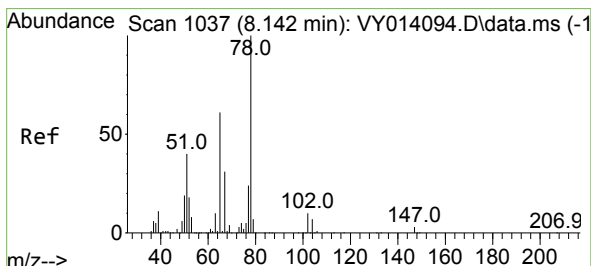
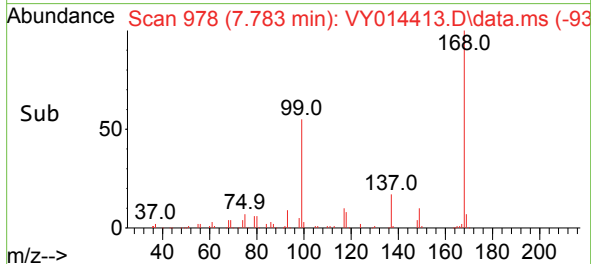
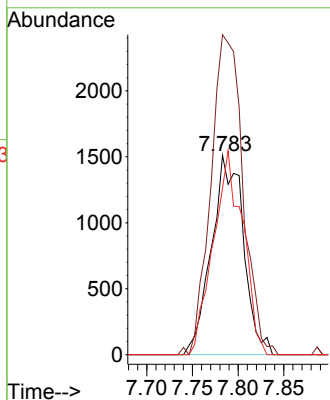
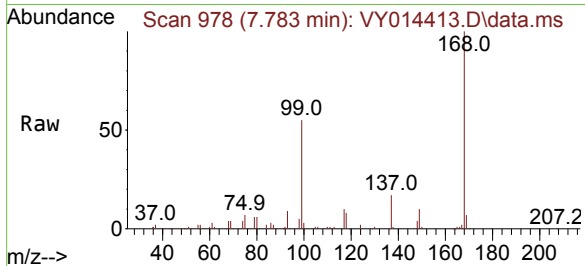




#31
Cyclohexane
Concen: 1.408 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

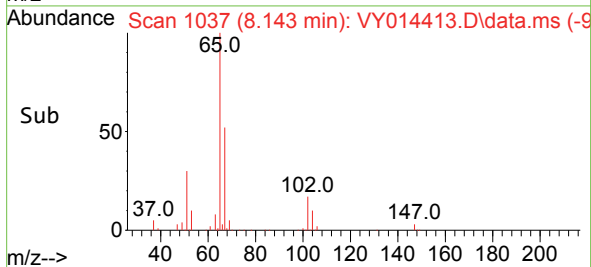
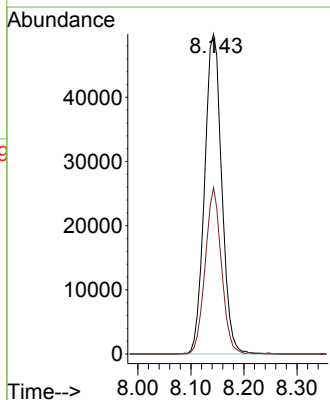
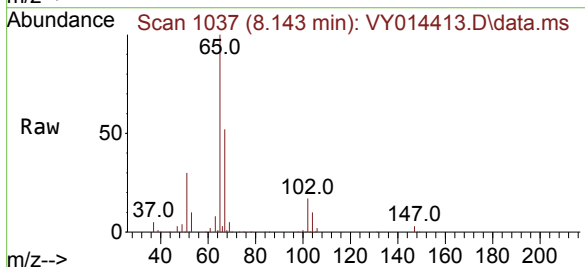
Instrument :
MSVOA_Y
ClientSampleId :
WC-SCAN-01-G

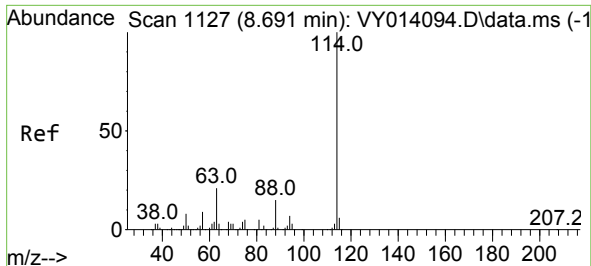
Tgt Ion: 56 Resp: 3665
Ion Ratio Lower Upper
56 100
69 160.6 27.8 41.6#
84 83.5 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 53.061 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.001 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

Tgt Ion: 65 Resp: 111856
Ion Ratio Lower Upper
65 100
67 49.1 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY014413.D

Acq: 23 Jun 2023 17:25

Instrument :

MSVOA_Y

ClientSampleId :

WC-SCAN-01-G

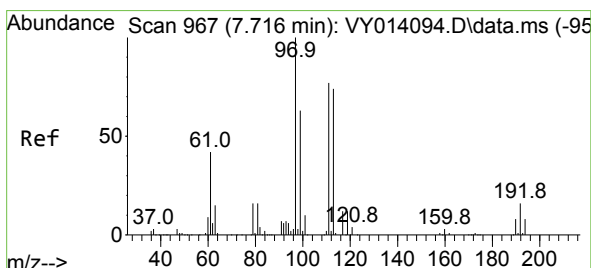
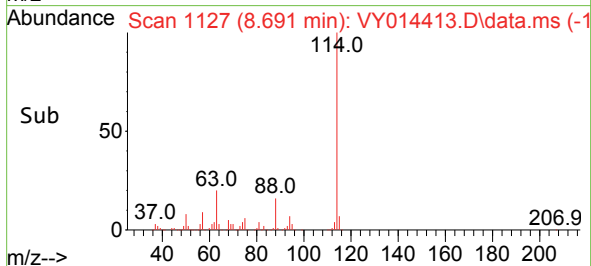
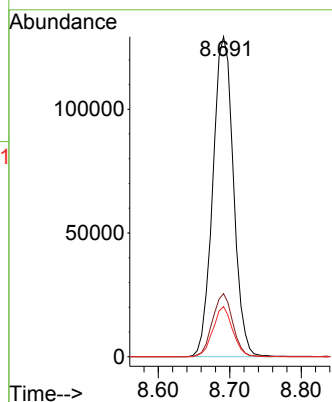
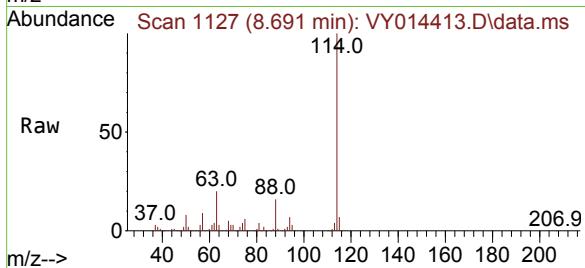
Tgt Ion:114 Resp: 259096

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 15.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.889 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY014413.D

Acq: 23 Jun 2023 17:25

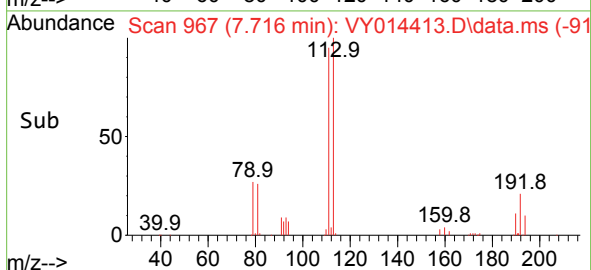
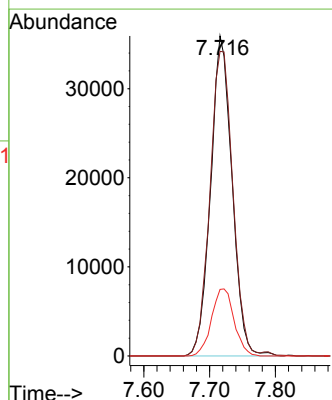
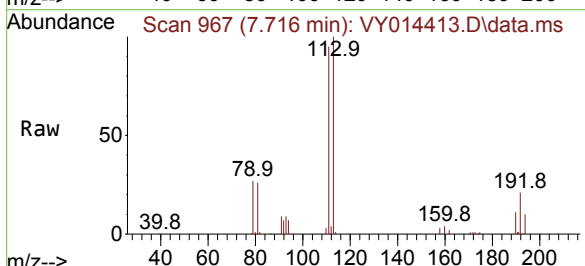
Tgt Ion:113 Resp: 81461

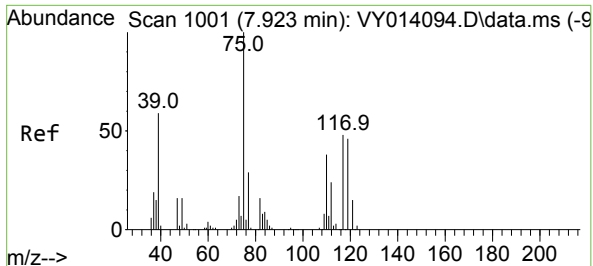
Ion Ratio Lower Upper

113 100

111 101.6 81.3 121.9

192 22.1 16.9 25.3

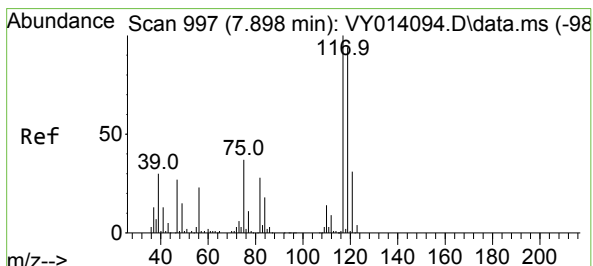
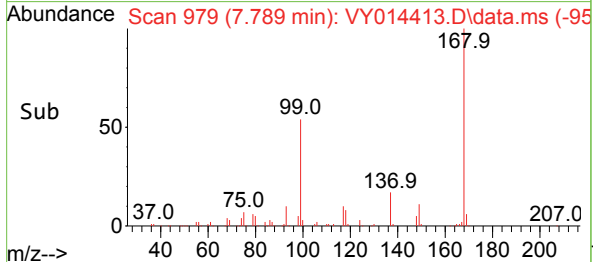
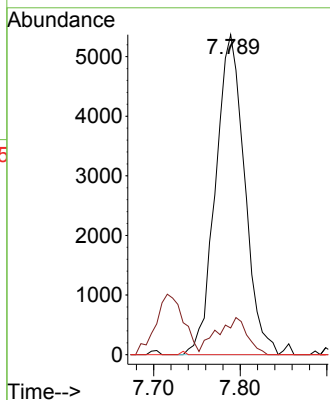
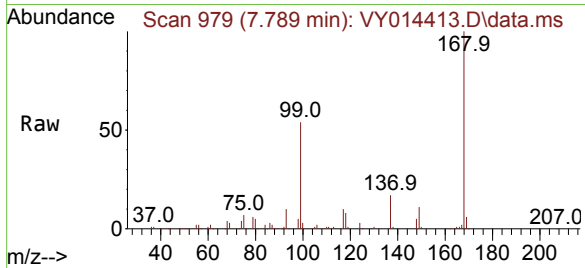




#36
1,1-Dichloropropene
Concen: 5.057 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

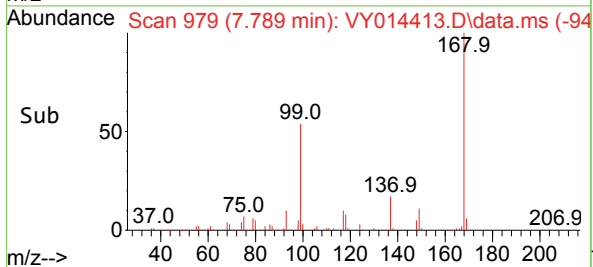
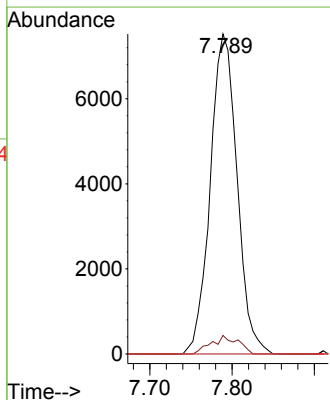
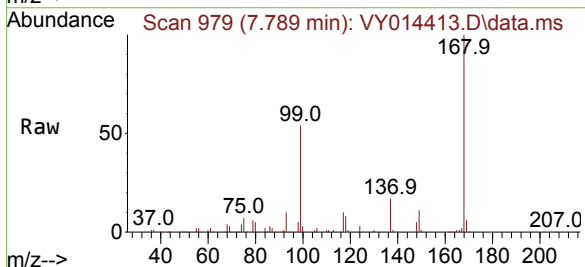
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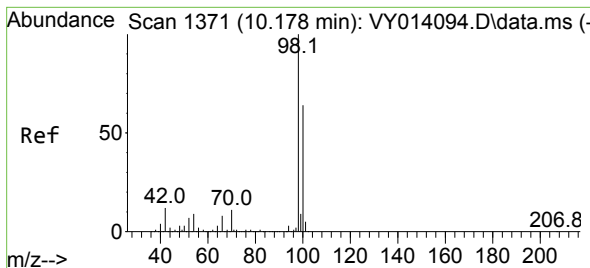
Tgt Ion: 75 Resp: 12475
Ion Ratio Lower Upper
75 100
110 12.1 17.8 53.5#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.490 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.109 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

Tgt Ion:117 Resp: 17043
Ion Ratio Lower Upper
117 100
119 5.8 76.4 114.6#
121 0.0 25.8 38.6#

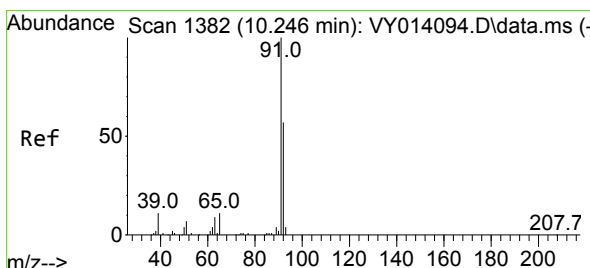
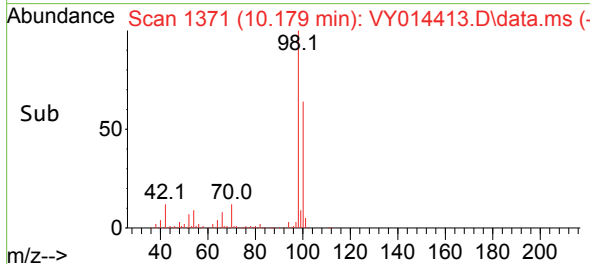
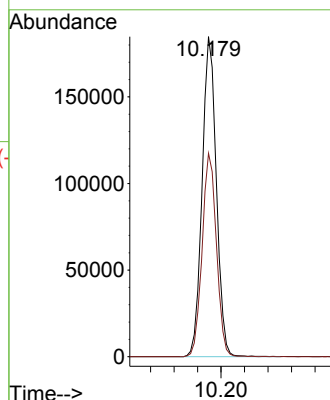
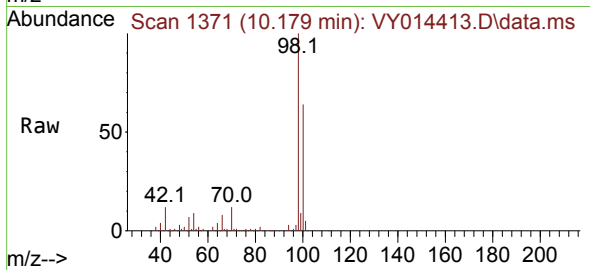




#50
Toluene-d8
Concen: 48.820 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.001 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

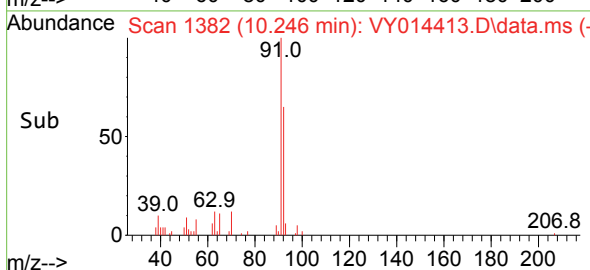
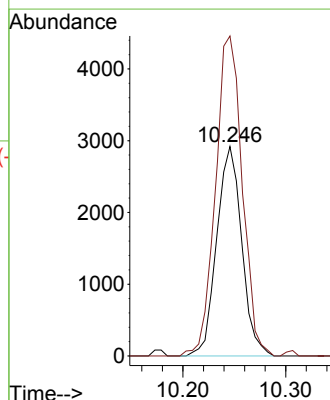
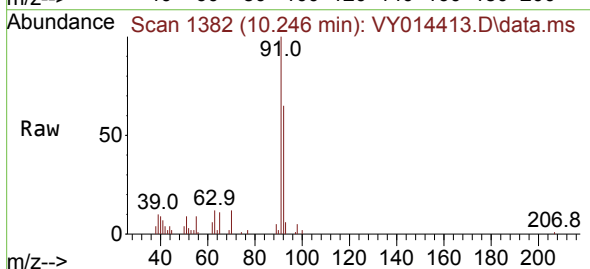
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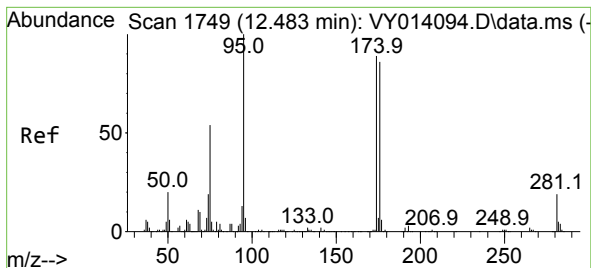
Tgt Ion: 98 Resp: 310647
Ion Ratio Lower Upper
98 100
100 63.8 50.1 75.1



#52
Toluene
Concen: 1.095 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

Tgt Ion: 92 Resp: 4924
Ion Ratio Lower Upper
92 100
91 163.9 143.8 215.6

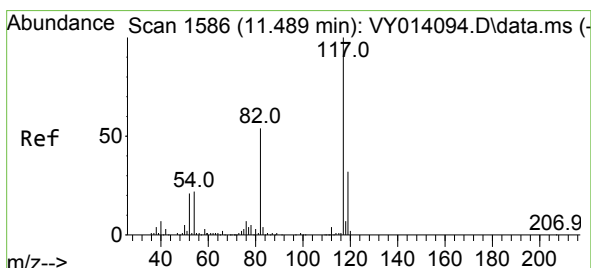
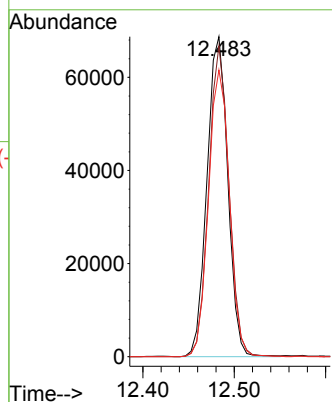
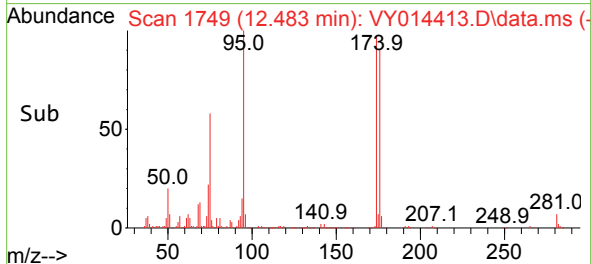
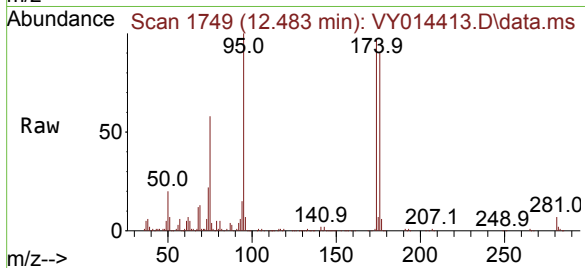




#62
4-Bromofluorobenzene
Concen: 47.831 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

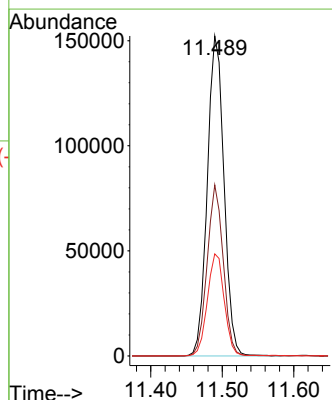
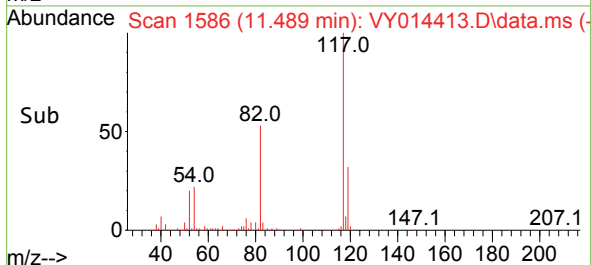
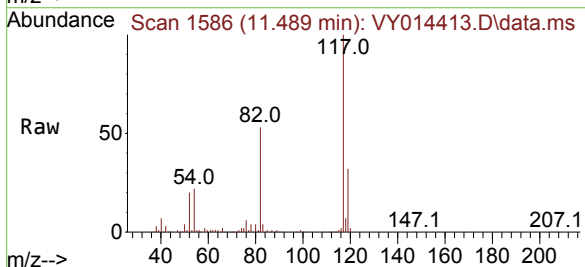
Instrument :
MSVOA_Y
ClientSampleId :
WC-SCAN-01-G

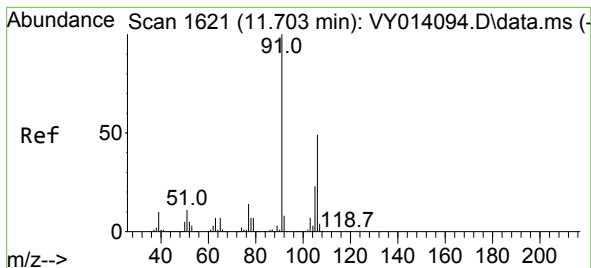
Tgt Ion: 95 Resp: 108658
Ion Ratio Lower Upper
95 100
174 94.6 0.0 178.2
176 90.2 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

Tgt Ion: 117 Resp: 246505
Ion Ratio Lower Upper
117 100
82 53.5 43.4 65.0
119 31.9 26.3 39.5

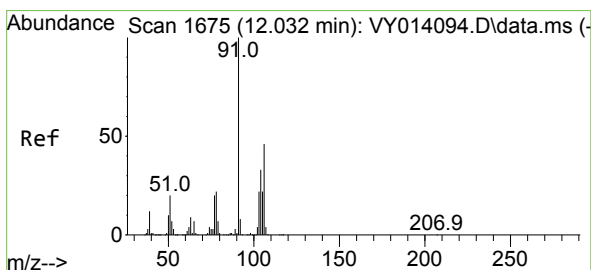
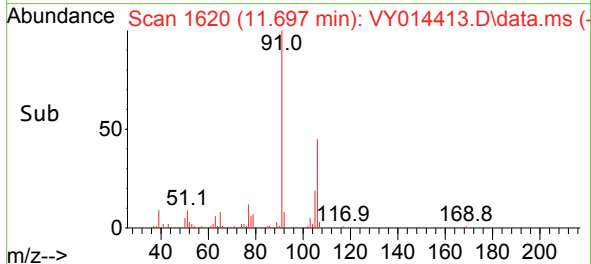
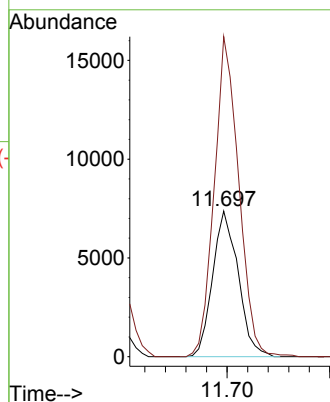
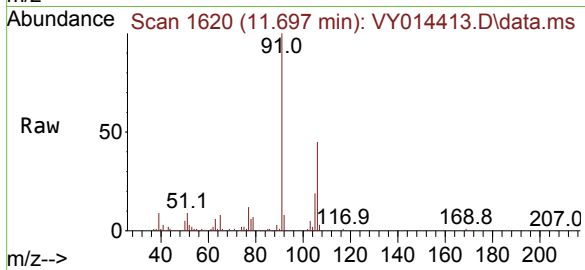




#68
m/p-Xylenes
Concen: 3.611 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

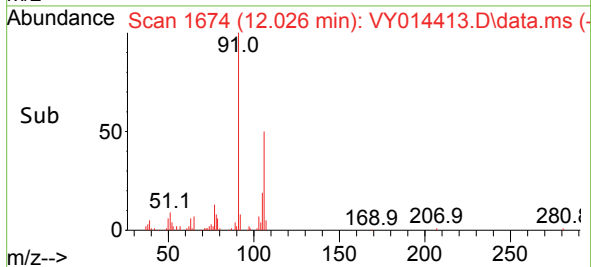
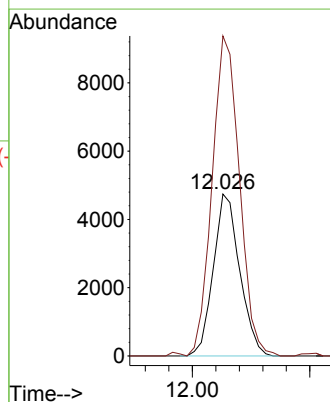
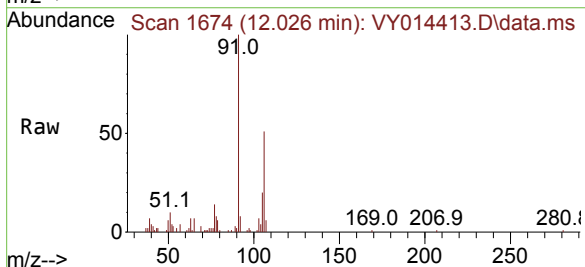
Instrument :
MSVOA_Y
ClientSampleId :
WC-SCAN-01-G

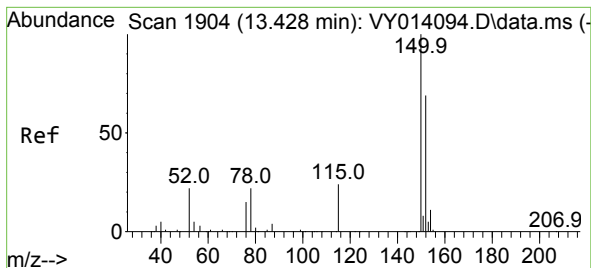
Tgt Ion:106 Resp: 12720
Ion Ratio Lower Upper
106 100
91 211.0 166.1 249.1



#69
o-Xylene
Concen: 2.209 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.006 min
Lab File: VY014413.D
Acq: 23 Jun 2023 17:25

Tgt Ion:106 Resp: 7404
Ion Ratio Lower Upper
106 100
91 205.1 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY014413.D

Acq: 23 Jun 2023 17:25

Instrument :

MSVOA_Y

ClientSampleId :

WC-SCAN-01-G

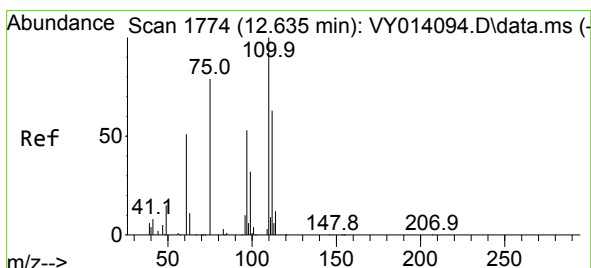
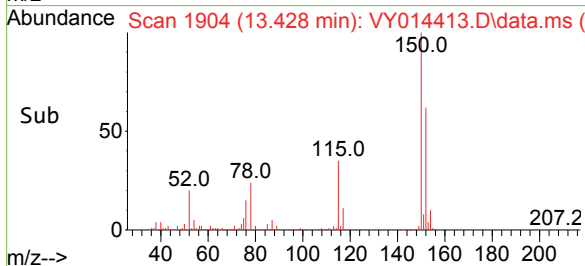
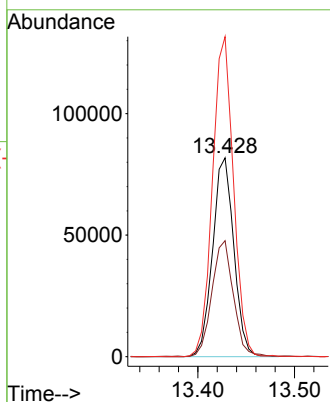
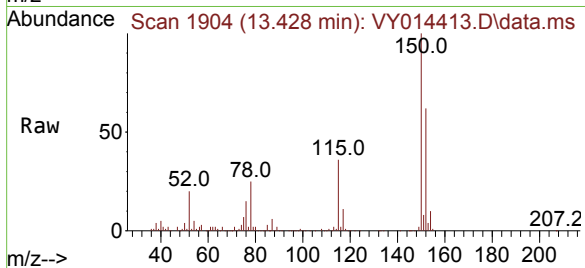
Tgt Ion:152 Resp: 124837

Ion Ratio Lower Upper

152 100

115 58.9 28.8 86.5

150 158.5 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 39.886 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY014413.D

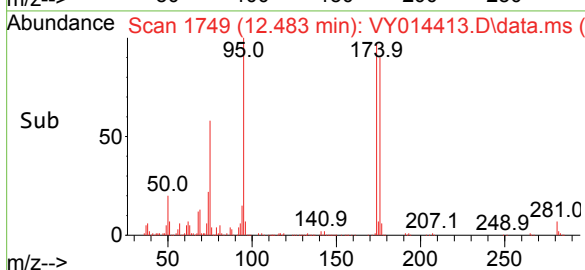
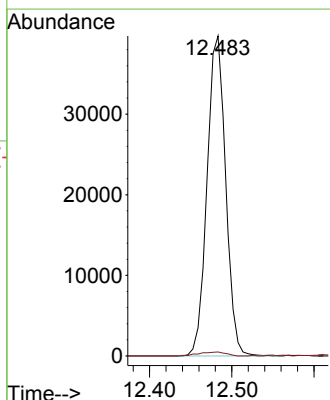
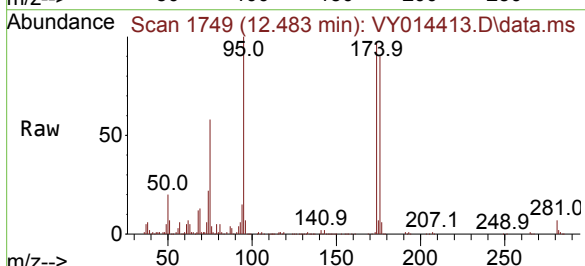
Acq: 23 Jun 2023 17:25

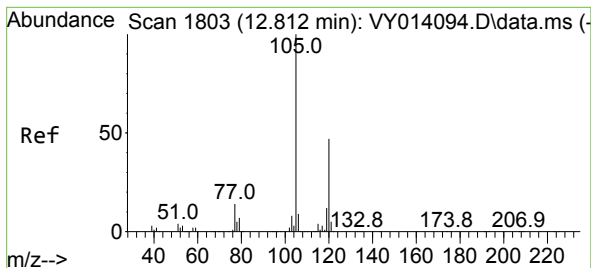
Tgt Ion: 75 Resp: 62460

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 1.956 ug/l

RT: 12.812 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY014413.D

Acq: 23 Jun 2023 17:25

Instrument :

MSVOA_Y

ClientSampleId :

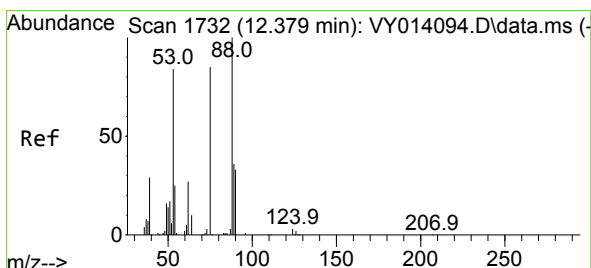
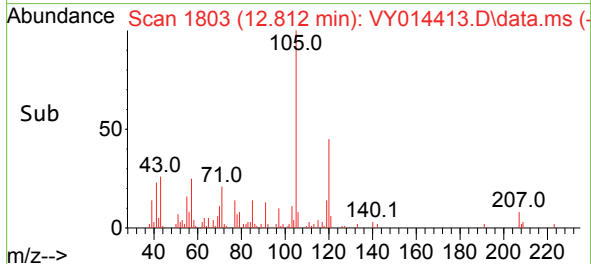
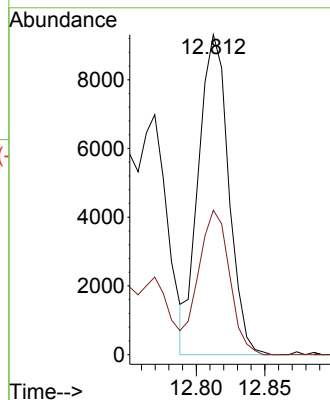
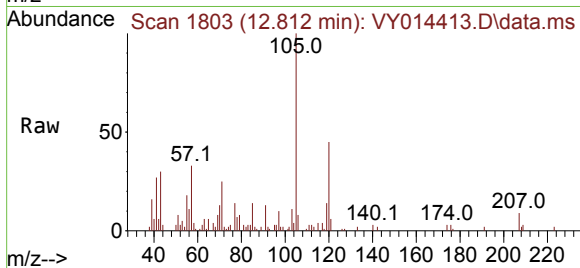
WC-SCAN-01-G

Tgt Ion:105 Resp: 14223

Ion Ratio Lower Upper

105 100

120 46.5 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 90.806 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY014413.D

Acq: 23 Jun 2023 17:25

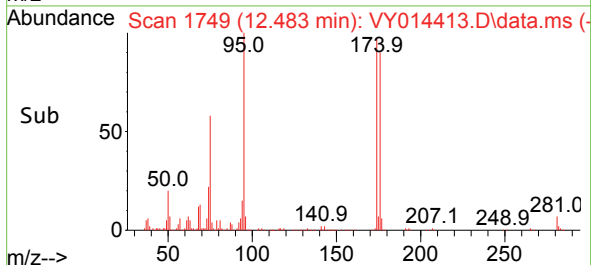
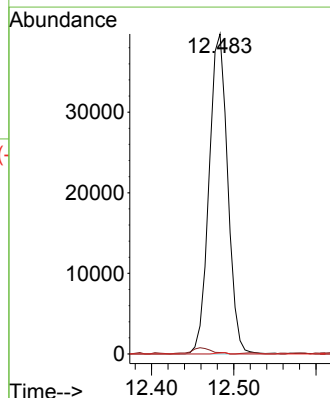
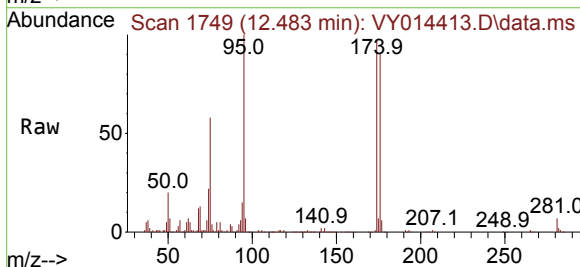
Tgt Ion: 75 Resp: 62460

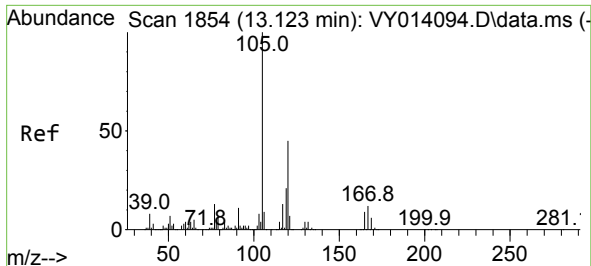
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.2 37.4 56.0#

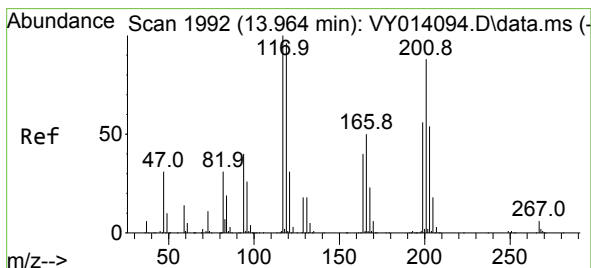
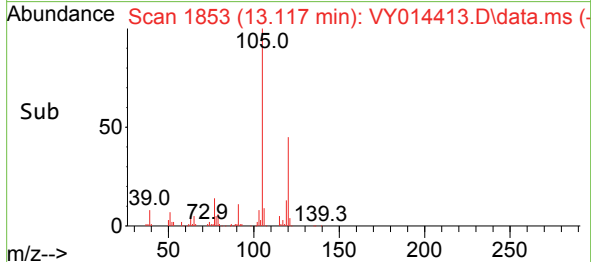
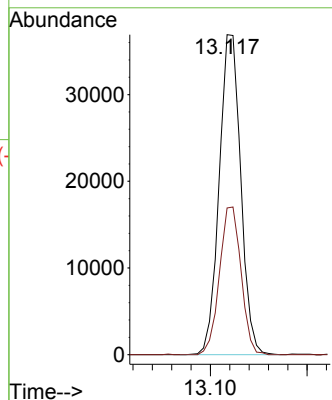
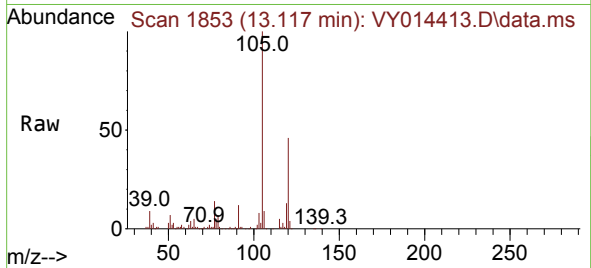




#84
 1,2,4-Trimethylbenzene
 Concen: 7.921 ug/l
 RT: 13.117 min Scan# 1853
 Delta R.T. -0.006 min
 Lab File: VY014413.D
 Acq: 23 Jun 2023 17:25

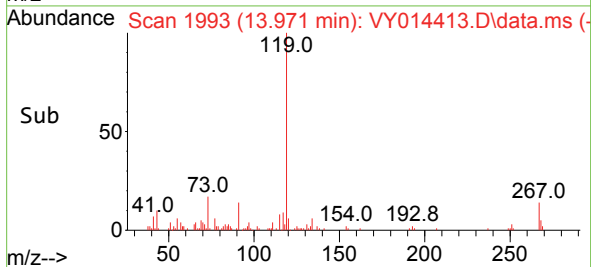
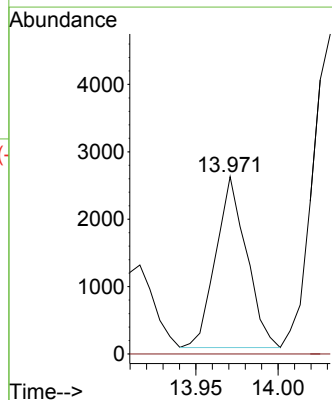
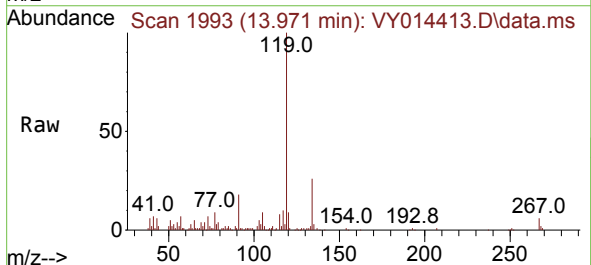
Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-SCAN-01-G

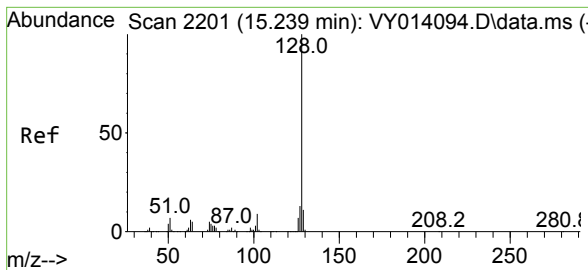
Tgt Ion:105 Resp: 57075
 Ion Ratio Lower Upper
 105 100
 120 46.1 22.2 66.6



#90
 Hexachloroethane
 Concen: 2.227 ug/l
 RT: 13.971 min Scan# 1993
 Delta R.T. 0.007 min
 Lab File: VY014413.D
 Acq: 23 Jun 2023 17:25

Tgt Ion:117 Resp: 3307
 Ion Ratio Lower Upper
 117 100
 201 0.0 41.6 124.8#





#95
 Naphthalene
 Concen: 5.671 ug/l
 RT: 15.233 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VY014413.D
 Acq: 23 Jun 2023 17:25

Instrument :
 MSVOA_Y
 ClientSampleId :
 WC-SCAN-01-G

Tgt Ion:	128	Resp:	30483
Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.8	16.2
129	13.8	8.6	13.0

