

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081523\
 Data File : VY015104.D
 Acq On : 15 Aug 2023 15:30
 Operator : SY/MD
 Sample : 03989-03
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 16 02:05:11 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)

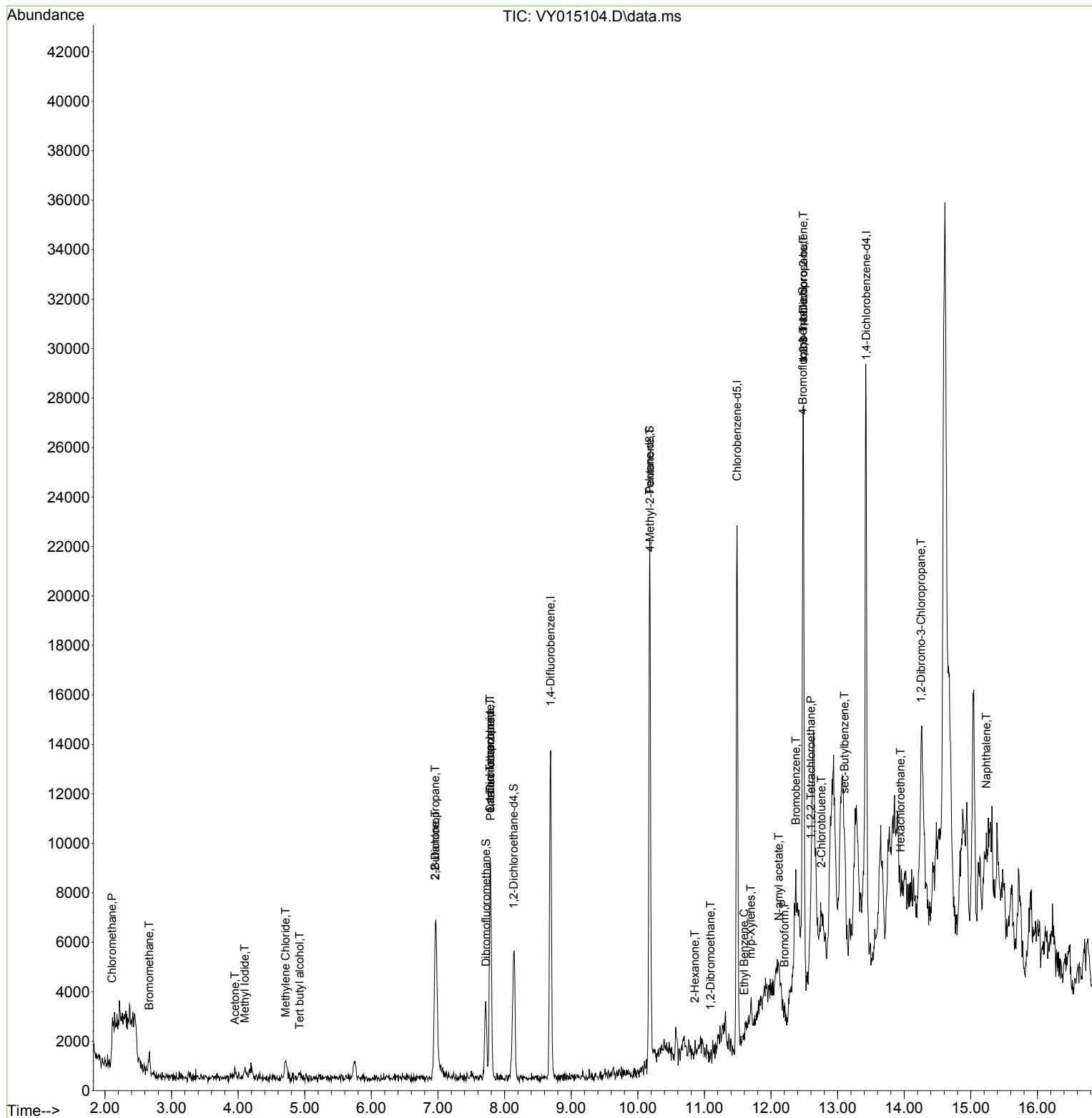
Internal Standards						
1) Pentafluorobenzene	7.789	168	7203	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	11908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	12350	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	5270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	4221	48.817	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	97.640%
35) Dibromofluoromethane	7.722	113	2307	30.114	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	60.220%
50) Toluene-d8	10.179	98	13984	49.036	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.080%
62) 4-Bromofluorobenzene	12.477	95	5734	55.049	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.100%
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	319	3.895	ug/l	95
5) Bromomethane	2.662	94	457	9.534	ug/l	97
10) Methyl Iodide	4.100	142	646	10.960	ug/l #	83
11) Tert butyl alcohol	4.923	59	290	4.459	ug/l #	89
16) Acetone	3.954	43	602	21.312	ug/l	97
20) Methylene Chloride	4.710	84	582	4.677	ug/l #	67
25) 2-Butanone	6.960	43	357	8.926	ug/l #	49
26) 2,2-Dichloropropane	6.960	77	634	5.478	ug/l #	54
31) Cyclohexane	7.777	56	68	Below Cal	#	1
36) 1,1-Dichloropropene	7.783	75	513	6.053	ug/l #	41
38) Carbon Tetrachloride	7.783	117	823	8.205	ug/l #	12
51) 4-Methyl-2-Pentanone	10.185	43	118	1.415	ug/l	91
59) 2-Hexanone	10.855	43	114	1.847	ug/l #	27
61) 1,2-Dibromoethane	11.093	107	76	1.155	ug/l #	2
67) Ethyl Benzene	11.599	91	669	1.697	ug/l #	84
68) m/p-Xylenes	11.697	106	259	1.730	ug/l	74
71) Bromoform	12.203	173	87	1.314	ug/l #	28
74) N-amyl acetate	12.117	43	227	1.855	ug/l #	74
75) 1,1,2,2-Tetrachloroethane	12.599	83	221	2.504	ug/l #	26
76) 1,2,3-Trichloropropane	12.483	75	2981	46.559	ug/l #	100
77) Bromobenzene	12.373	156	303	3.668	ug/l #	4
79) 2-Chlorotoluene	12.757	91	349	1.503	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.483	75	2981	102.266	ug/l #	11
85) sec-Butylbenzene	13.105	105	1011	2.671	ug/l	86
90) Hexachloroethane	13.946	117	127	2.040	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.251	75	20	1.170	ug/l #	20
95) Naphthalene	15.233	128	714	2.917	ug/l #	94

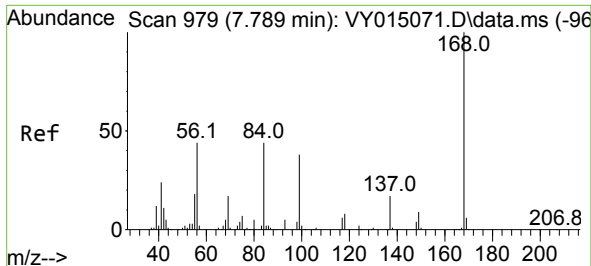
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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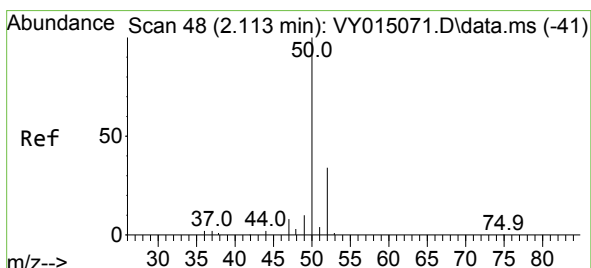
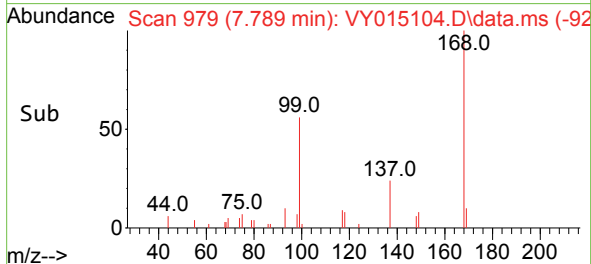
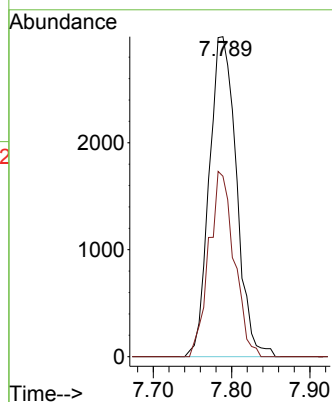
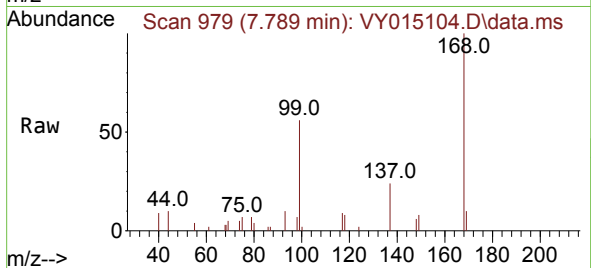




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

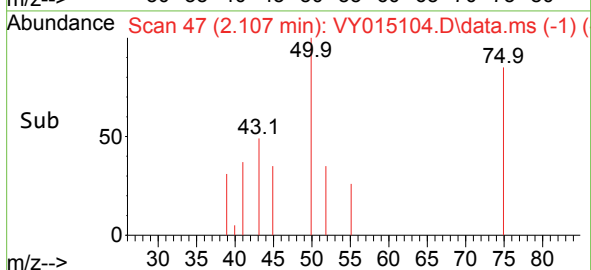
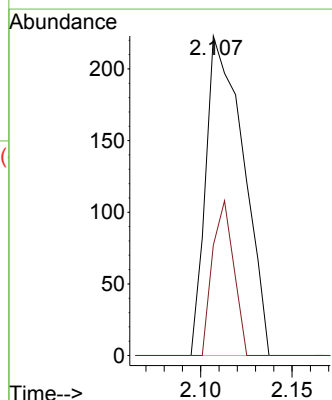
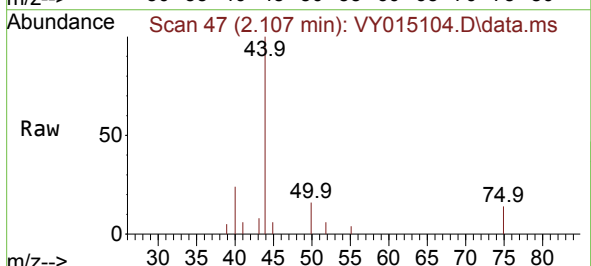
Instrument :
MSVOA_Y
ClientSampleId :

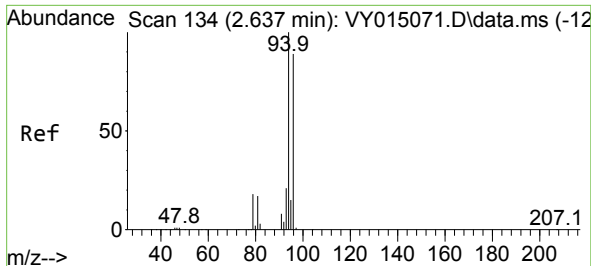
Tgt Ion:168 Resp: 7203
Ion Ratio Lower Upper
168 100
99 56.4 43.4 65.0



#3
Chloromethane
Concen: 3.895 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

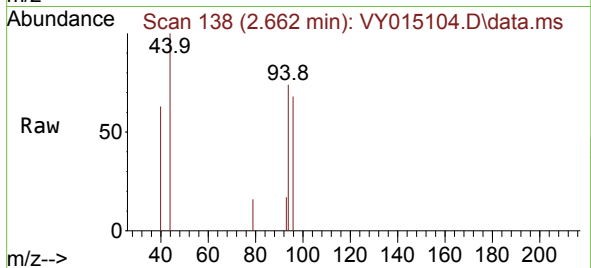
Tgt Ion: 50 Resp: 319
Ion Ratio Lower Upper
50 100
52 34.5 25.4 38.2



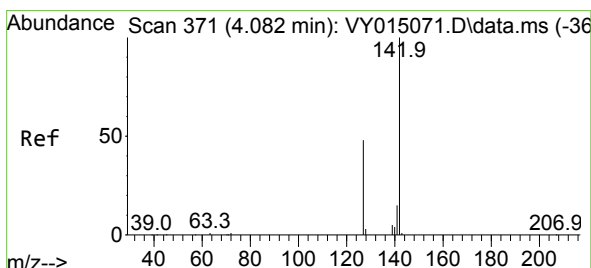
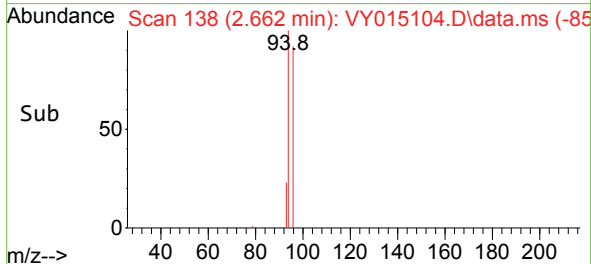
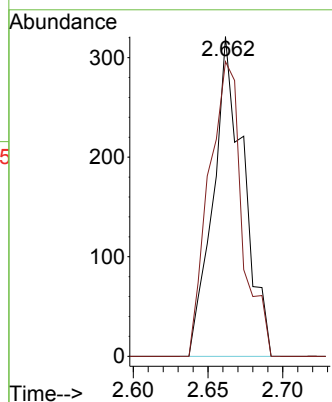


#5
Bromomethane
Concen: 9.534 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.025 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Instrument :
MSVOA_Y
ClientSampleId :

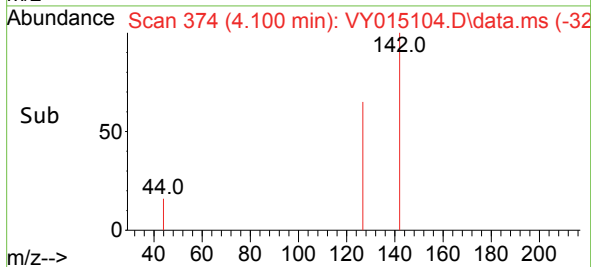
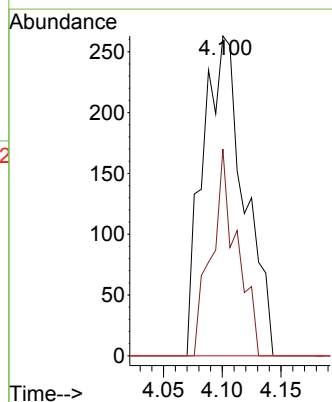
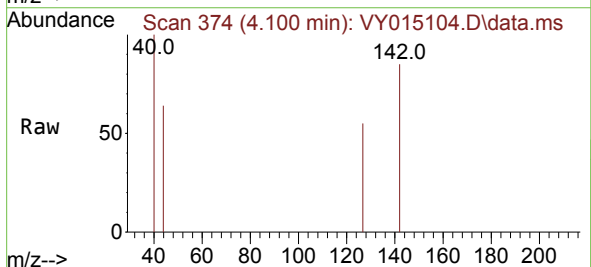


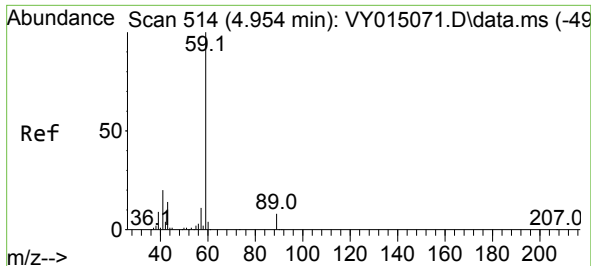
Tgt Ion: 94 Resp: 457
Ion Ratio Lower Upper
94 100
96 92.2 75.8 113.6



#10
Methyl Iodide
Concen: 10.960 ug/l
RT: 4.100 min Scan# 374
Delta R.T. 0.018 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Tgt Ion: 142 Resp: 646
Ion Ratio Lower Upper
142 100
127 39.6 37.6 56.4
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: 4.459 ug/l

RT: 4.923 min Scan# 50

Delta R.T. -0.025 min

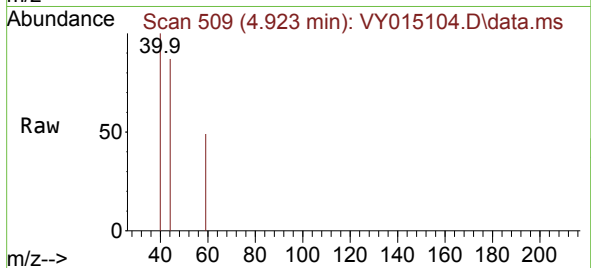
Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Instrument :

MSVOA_Y

ClientSampleId :

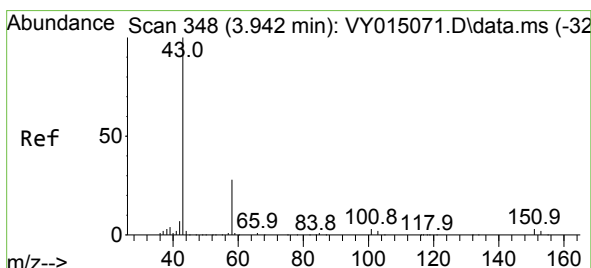
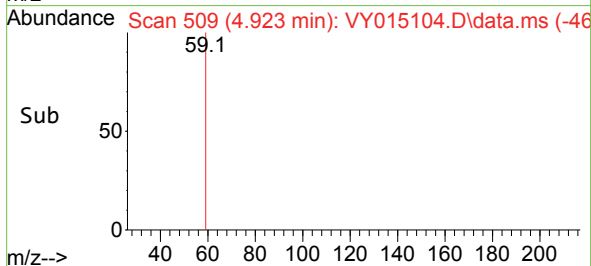
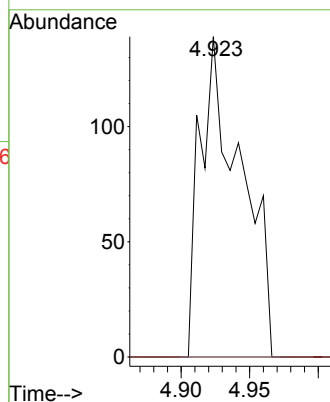


Tgt Ion: 59 Resp: 290

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#16

Acetone

Concen: 21.312 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.012 min

Lab File: VY015104.D

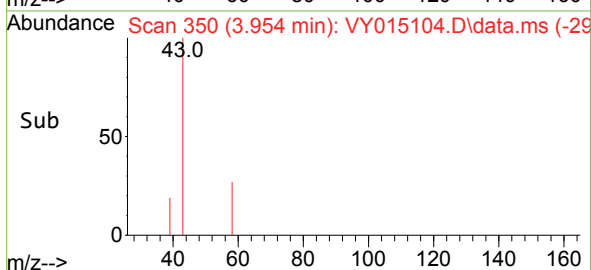
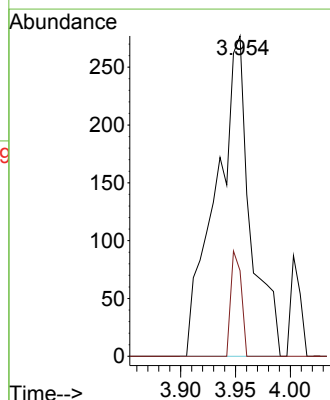
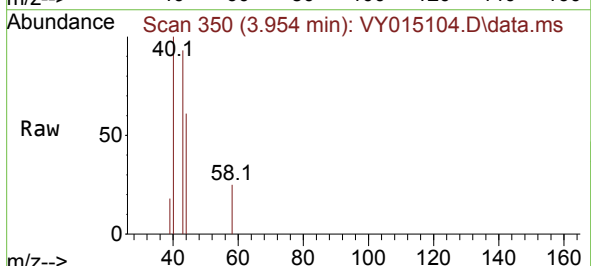
Acq: 15 Aug 2023 15:30

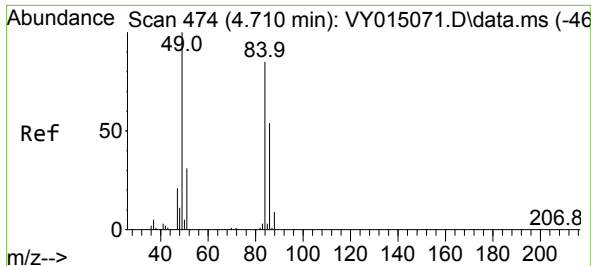
Tgt Ion: 43 Resp: 602

Ion Ratio Lower Upper

43 100

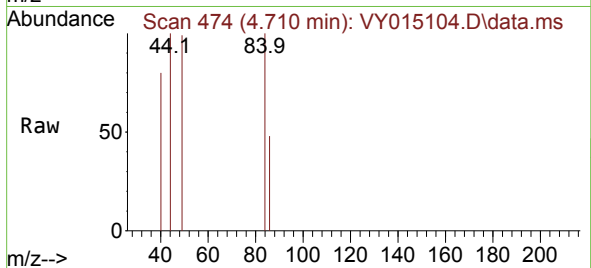
58 26.7 22.7 34.1



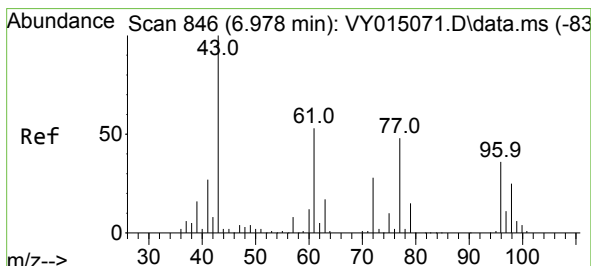
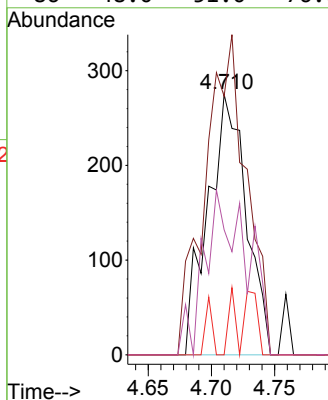
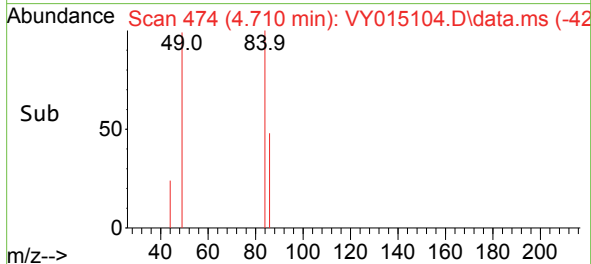


#20
Methylene Chloride
Concen: 4.677 ug/l
RT: 4.710 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

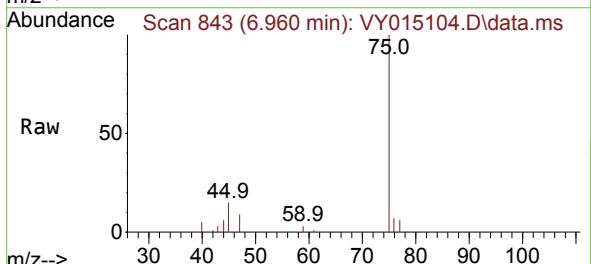
Instrument :
MSVOA_Y
ClientSampleId :



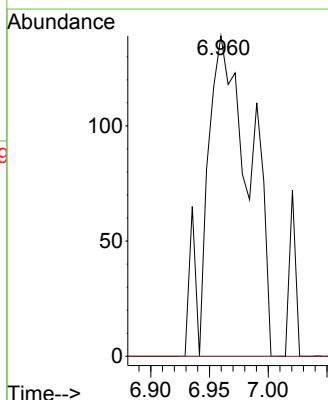
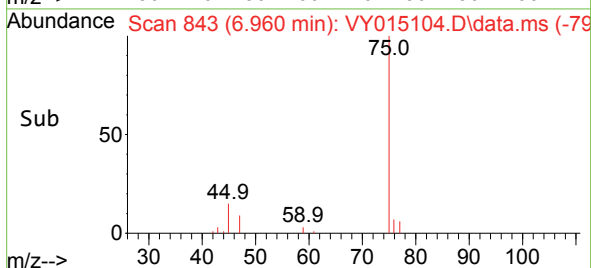
Tgt Ion: 84 Resp: 582
Ion Ratio Lower Upper
84 100
49 99.3 106.9 160.3#
51 0.0 33.2 49.8#
86 48.0 51.0 76.6#

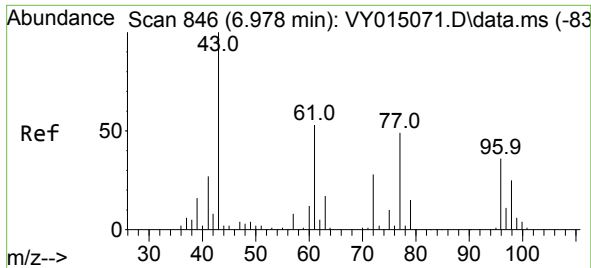


#25
2-Butanone
Concen: 8.926 ug/l
RT: 6.960 min Scan# 843
Delta R.T. -0.018 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30



Tgt Ion: 43 Resp: 357
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#

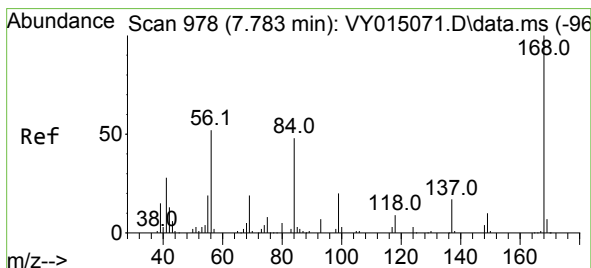
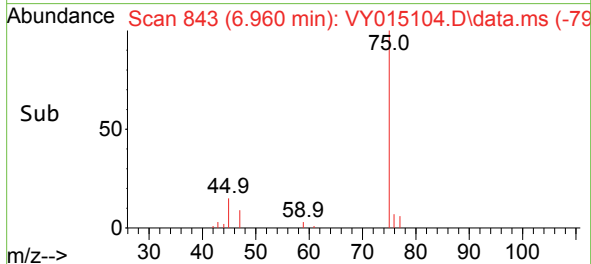
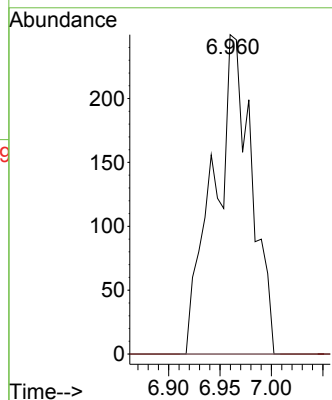
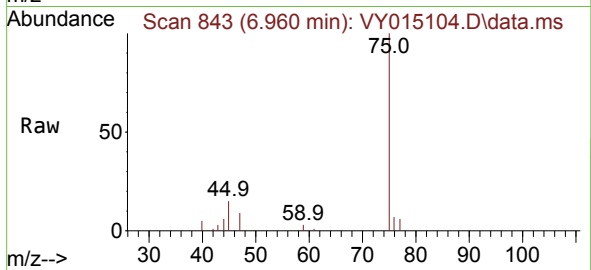




#26
2,2-Dichloropropane
Concen: 5.478 ug/l
RT: 6.960 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

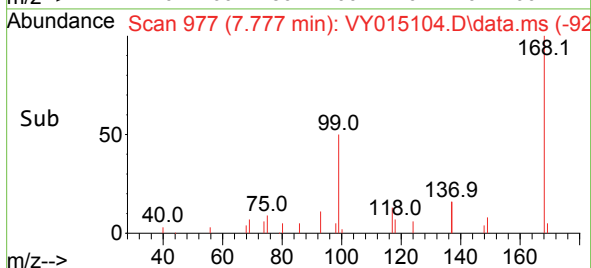
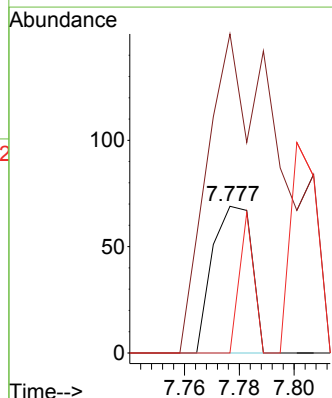
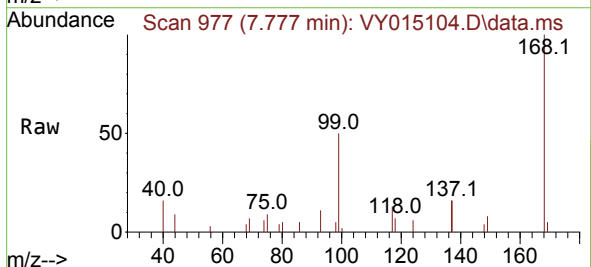
Instrument :
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ClientSampleId :

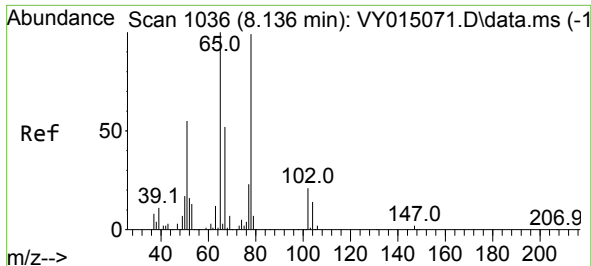
Tgt Ion: 77 Resp: 634
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#31
Cyclohexane
Concen: Below Cal
RT: 7.777 min Scan# 977
Delta R.T. -0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Tgt Ion: 56 Resp: 68
Ion Ratio Lower Upper
56 100
69 217.4 27.8 41.6#
84 0.0 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 48.817 ug/l

RT: 8.136 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Instrument :

MSVOA_Y

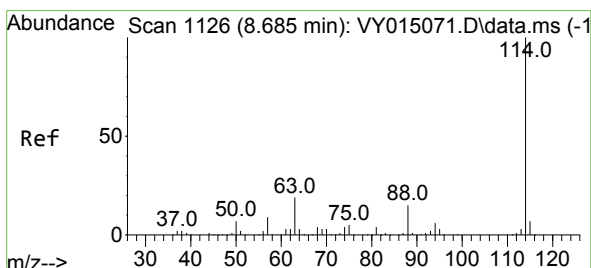
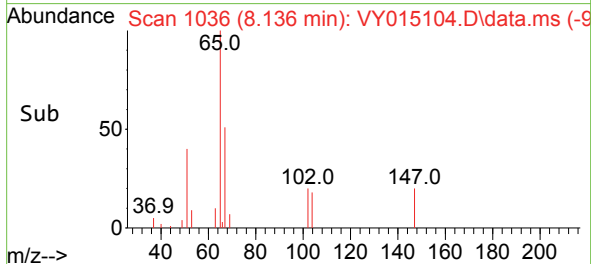
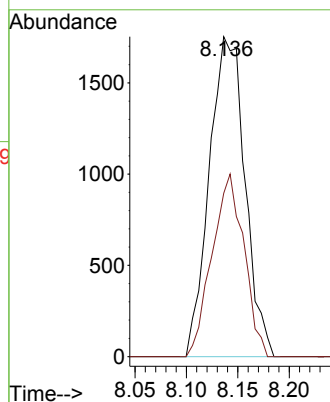
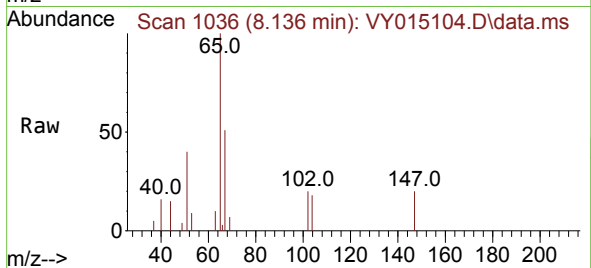
ClientSampleId :

Tgt Ion: 65 Resp: 4221

Ion Ratio Lower Upper

65 100

67 51.1 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: VY015104.D

Acq: 15 Aug 2023 15:30

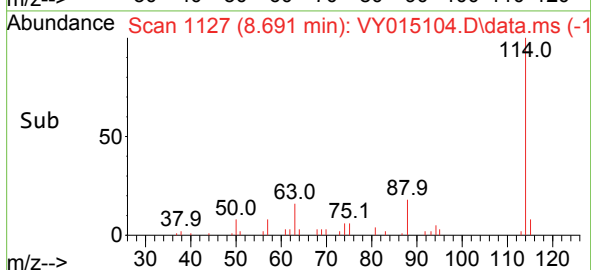
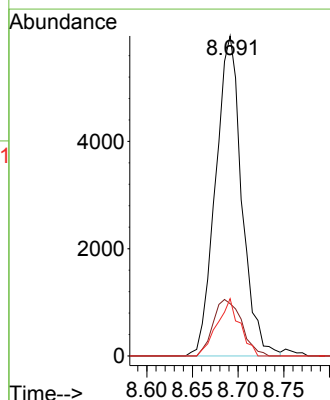
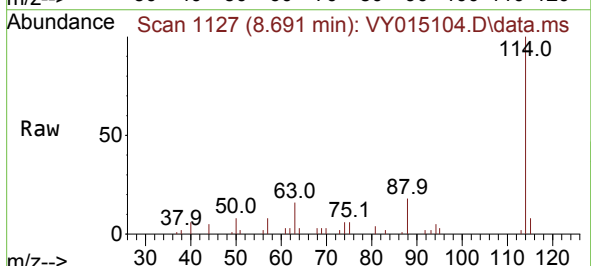
Tgt Ion: 114 Resp: 11908

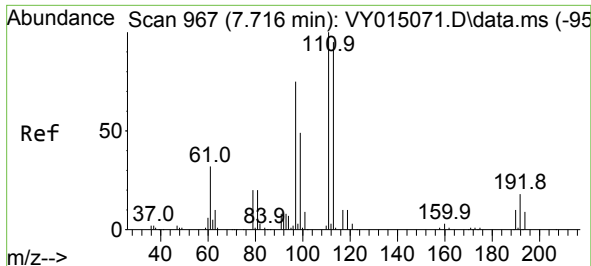
Ion Ratio Lower Upper

114 100

63 16.3 0.0 42.4

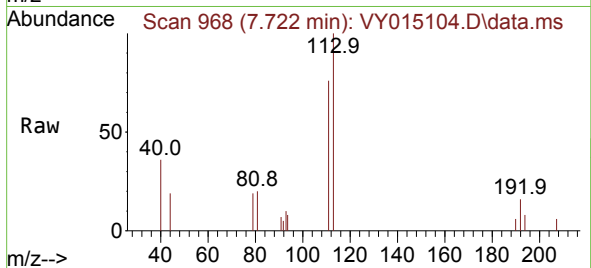
88 17.9 0.0 30.6



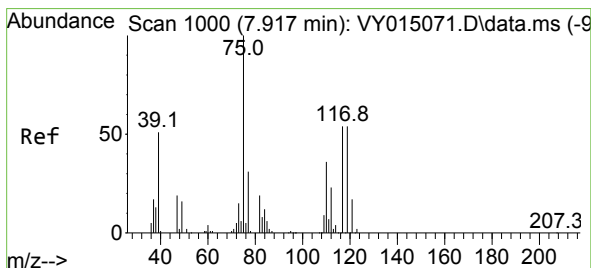
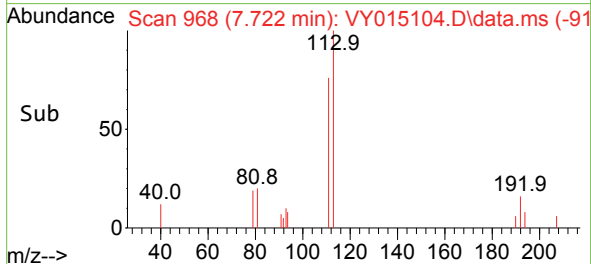
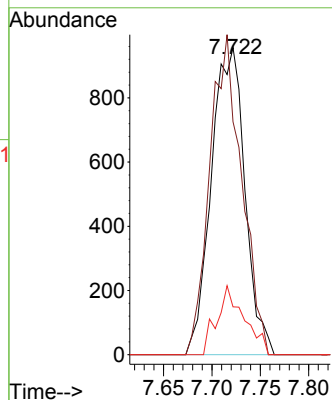


#35
Dibromofluoromethane
Concen: 30.114 ug/l
RT: 7.722 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Instrument :
MSVOA_Y
ClientSampleId :

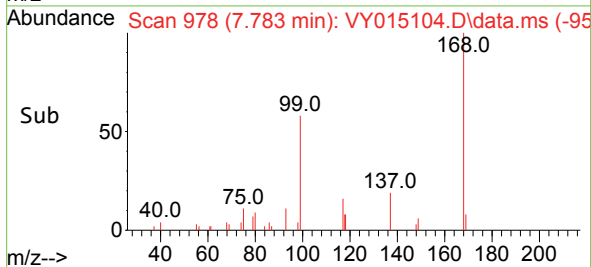
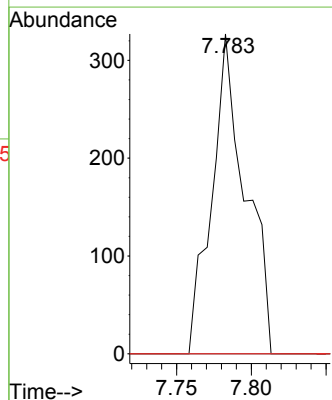
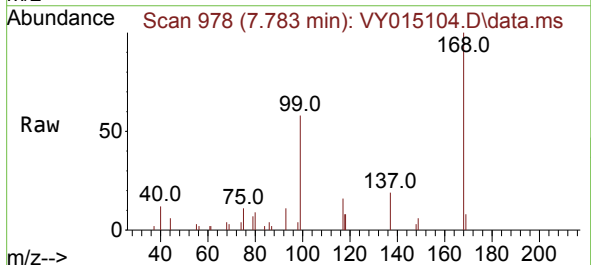


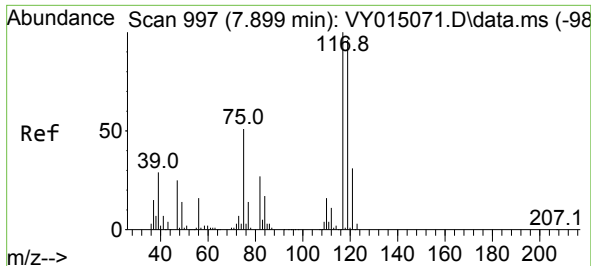
Tgt Ion:113 Resp: 2307
Ion Ratio Lower Upper
113 100
111 98.8 81.3 121.9
192 18.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.053 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

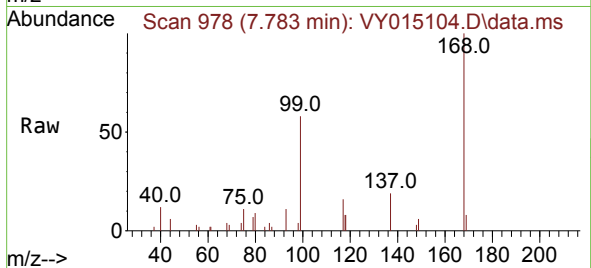
Tgt Ion: 75 Resp: 513
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 24.4 36.6#



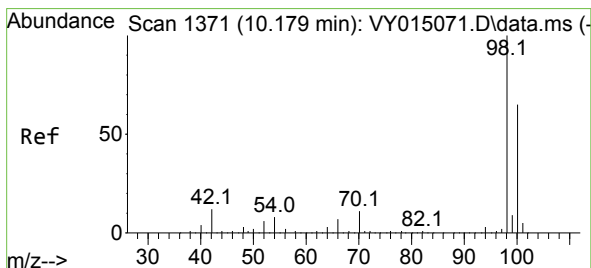
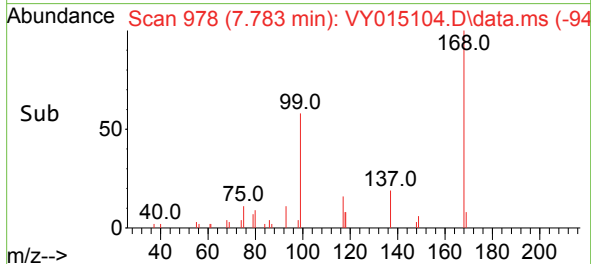
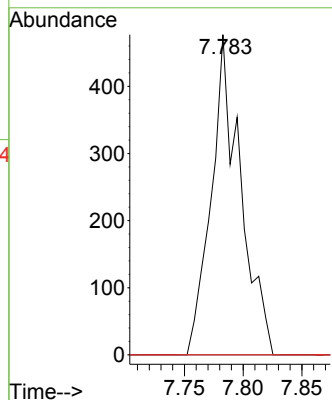


#38
Carbon Tetrachloride
Concen: 8.205 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Instrument :
MSVOA_Y
ClientSampleId :

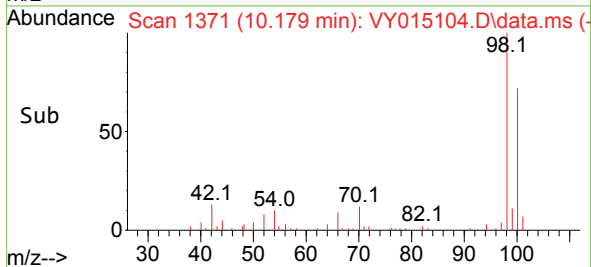
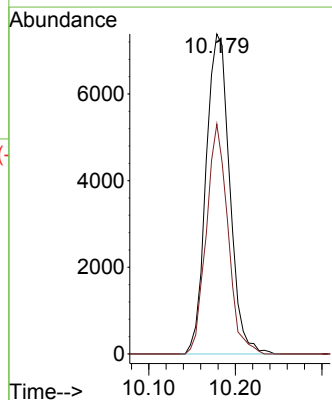
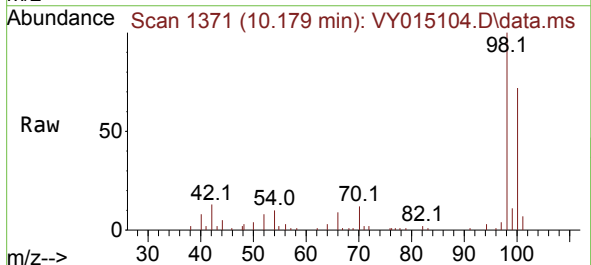


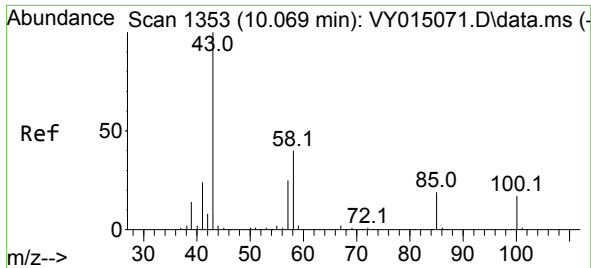
Tgt Ion:117 Resp: 823
Ion Ratio Lower Upper
117 100
119 0.0 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 49.036 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Tgt Ion: 98 Resp: 13984
Ion Ratio Lower Upper
98 100
100 65.7 50.1 75.1





#51

4-Methyl-2-Pentanone

Concen: 1.415 ug/l

RT: 10.185 min Scan# 11

Delta R.T. 0.116 min

Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Instrument :

MSVOA_Y

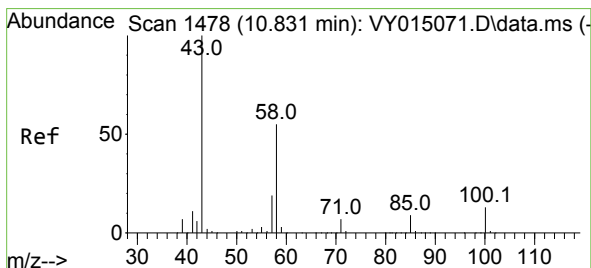
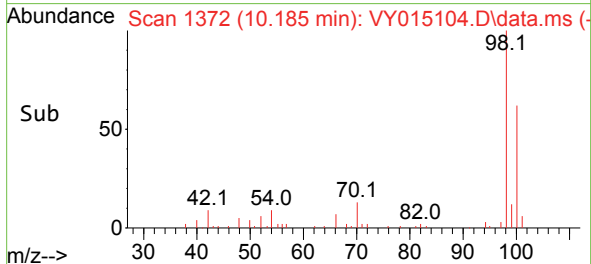
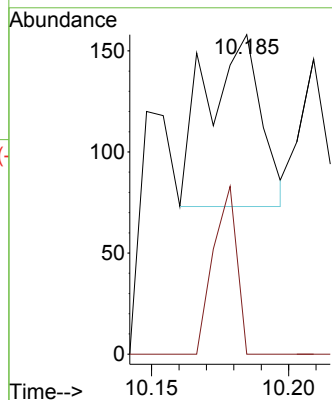
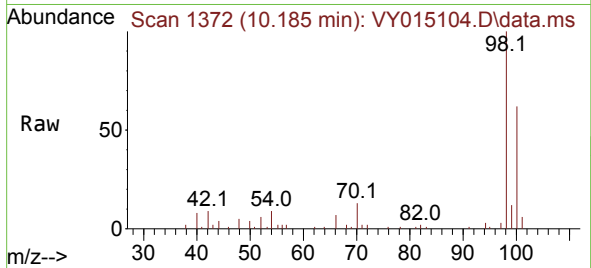
ClientSampleId :

Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

58 41.5 29.0 43.6



#59

2-Hexanone

Concen: 1.847 ug/l

RT: 10.855 min Scan# 1482

Delta R.T. 0.024 min

Lab File: VY015104.D

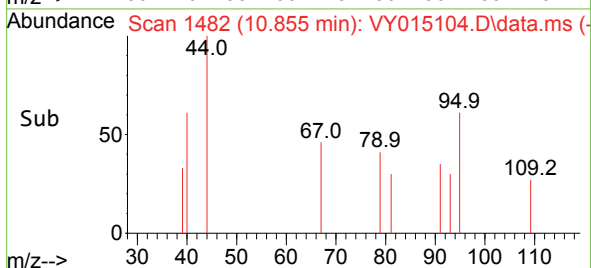
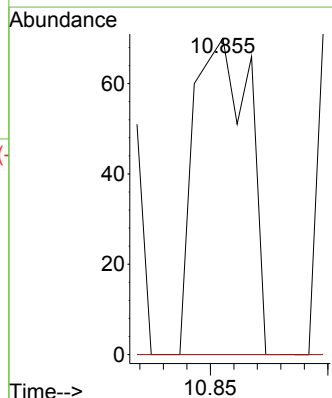
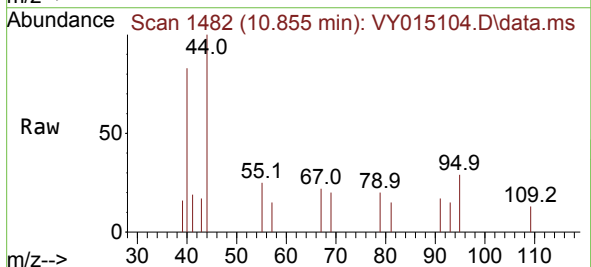
Acq: 15 Aug 2023 15:30

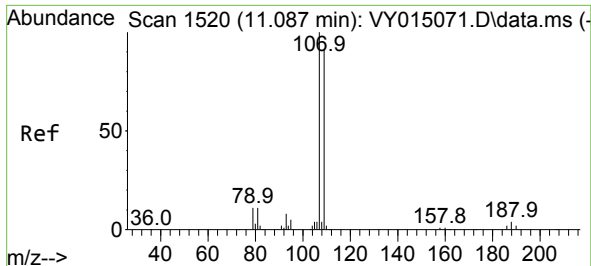
Tgt Ion: 43 Resp: 114

Ion Ratio Lower Upper

43 100

58 0.0 25.1 75.3#

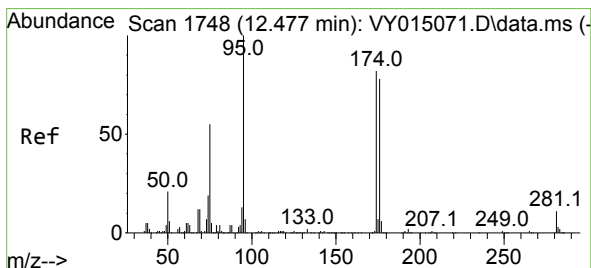
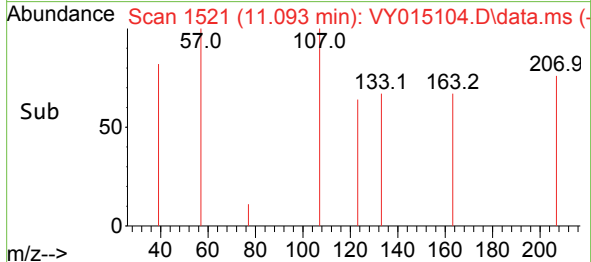
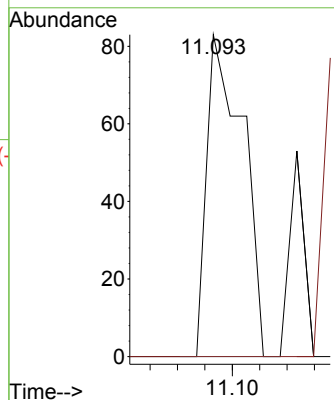
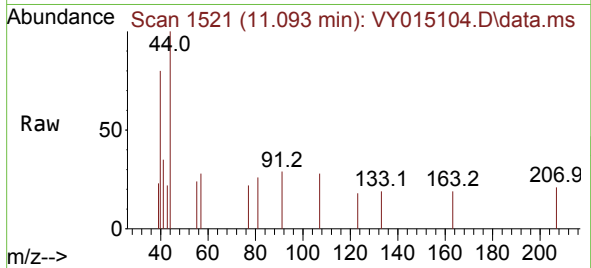




#61
1,2-Dibromoethane
Concen: 1.155 ug/l
RT: 11.093 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

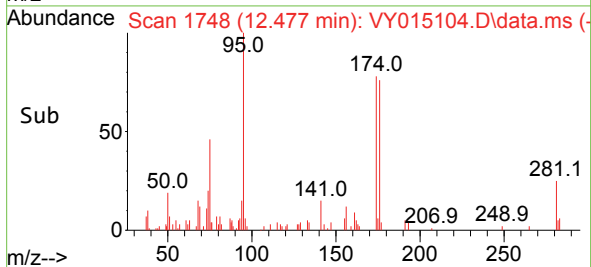
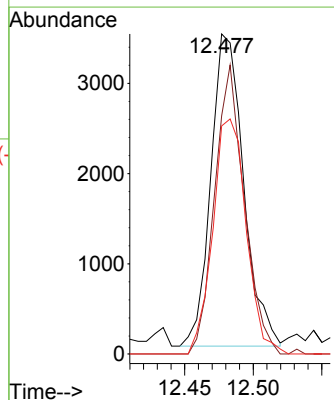
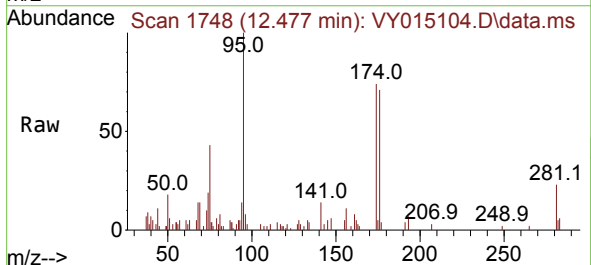
Instrument :
MSVOA_Y
ClientSampleId :

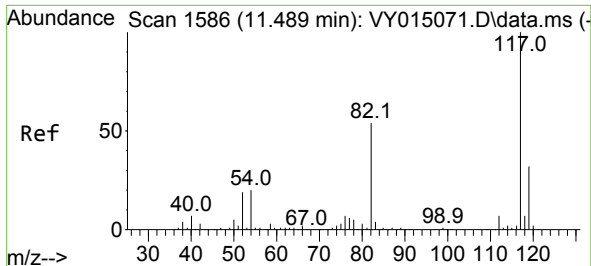
Tgt Ion:107 Resp: 76
Ion Ratio Lower Upper
107 100
109 0.0 75.6 113.4#



#62
4-Bromofluorobenzene
Concen: 55.049 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

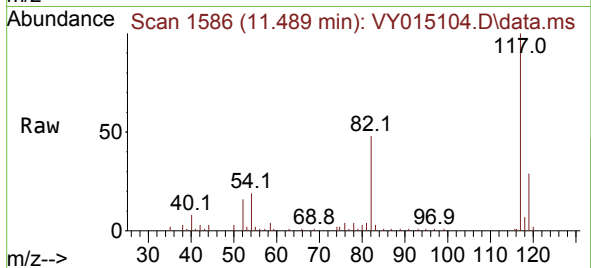
Tgt Ion: 95 Resp: 5734
Ion Ratio Lower Upper
95 100
174 84.2 0.0 178.2
176 77.1 0.0 173.8



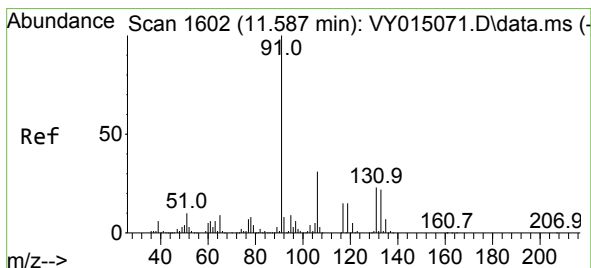
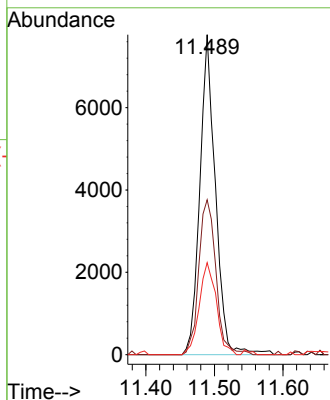
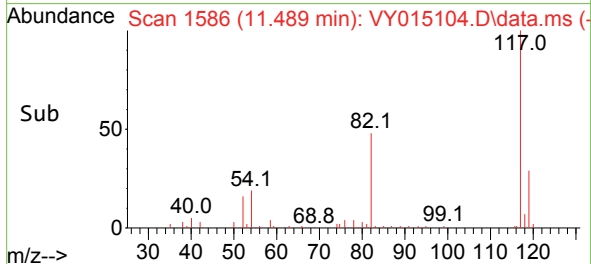


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Instrument :
MSVOA_Y
ClientSampleId :

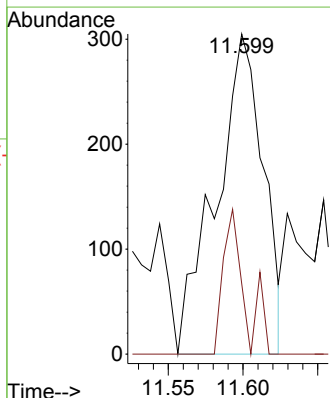
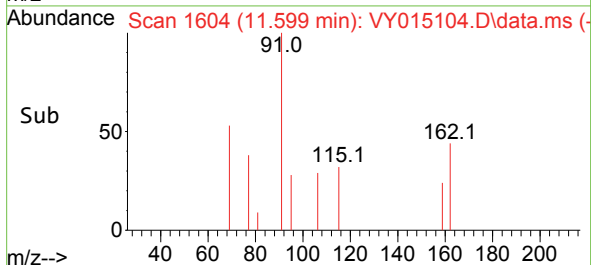
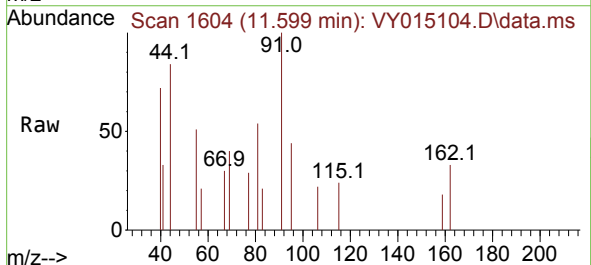


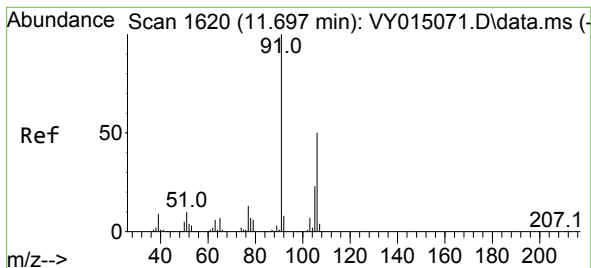
Tgt Ion:117 Resp: 12350
Ion Ratio Lower Upper
117 100
82 48.4 43.4 65.0
119 28.8 26.3 39.5



#67
Ethyl Benzene
Concen: 1.697 ug/l
RT: 11.599 min Scan# 1604
Delta R.T. 0.012 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Tgt Ion: 91 Resp: 669
Ion Ratio Lower Upper
91 100
106 22.0 24.6 36.8#

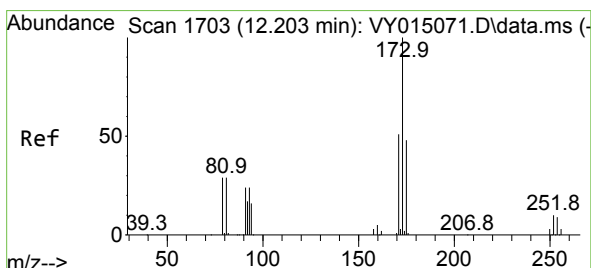
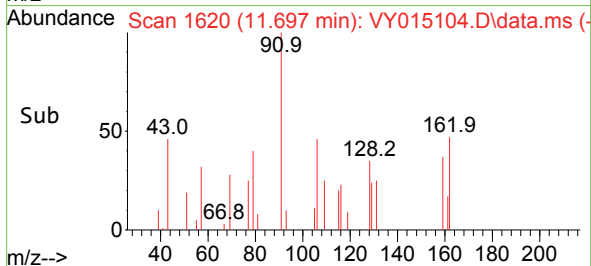
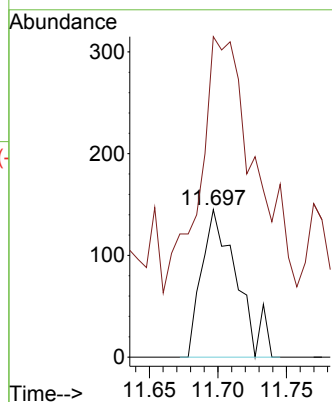
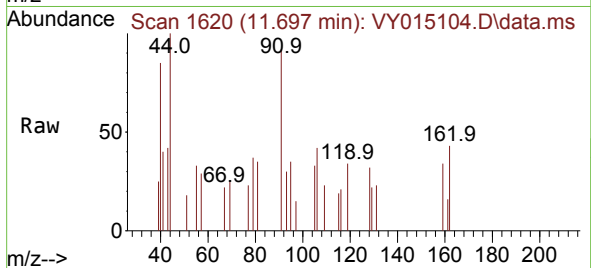




#68
m/p-Xylenes
Concen: 1.730 ug/l
RT: 11.697 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

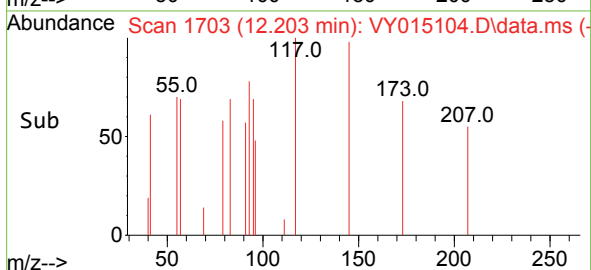
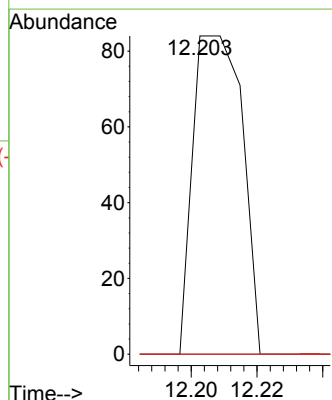
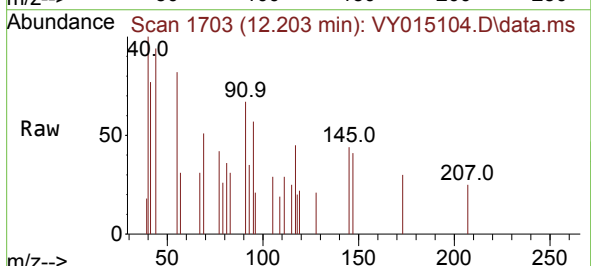
Instrument :
MSVOA_Y
ClientSampleId :

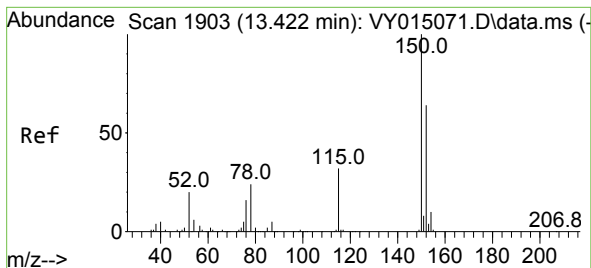
Tgt Ion:106 Resp: 259
Ion Ratio Lower Upper
106 100
91 248.3 166.1 249.1



#71
Bromoform
Concen: 1.314 ug/l
RT: 12.203 min Scan# 1703
Delta R.T. -0.006 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Tgt Ion:173 Resp: 87
Ion Ratio Lower Upper
173 100
175 0.0 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

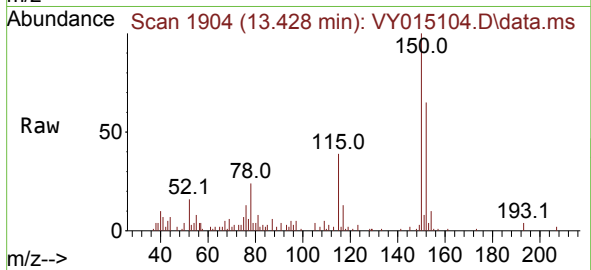
Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Instrument :

MSVOA_Y

ClientSampleId :



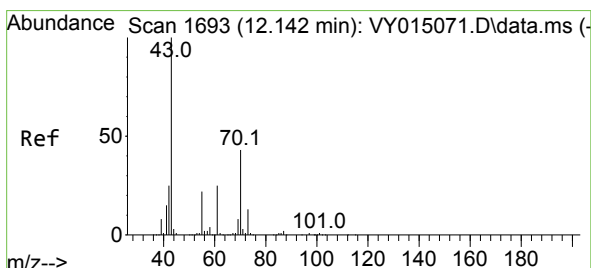
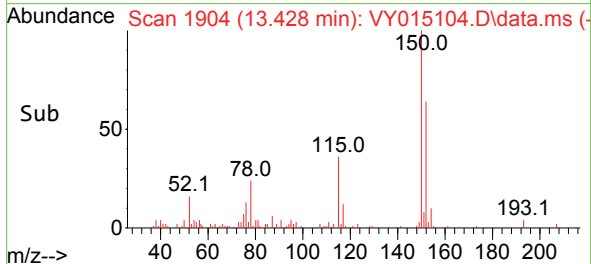
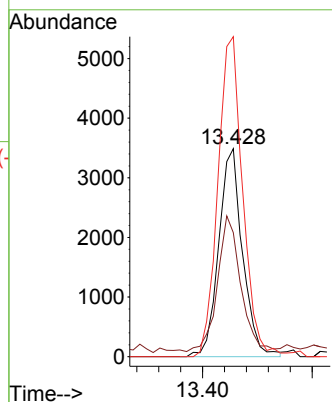
Tgt Ion:152 Resp: 5270

Ion Ratio Lower Upper

152 100

115 63.3 28.8 86.5

150 160.1 0.0 348.8



#74

N-ethyl acetate

Concen: 1.855 ug/l

RT: 12.117 min Scan# 1689

Delta R.T. -0.024 min

Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Tgt Ion: 43 Resp: 227

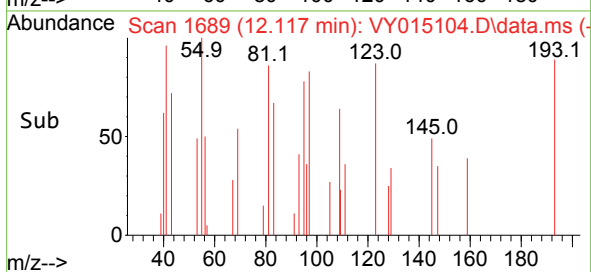
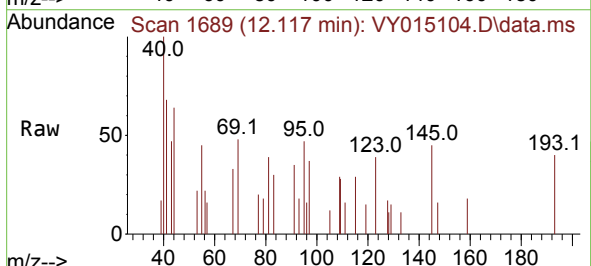
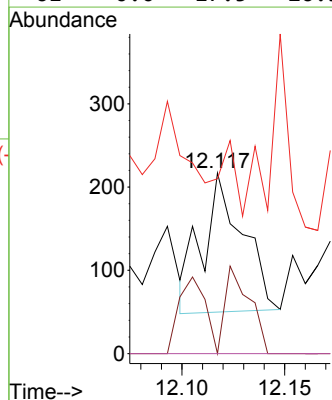
Ion Ratio Lower Upper

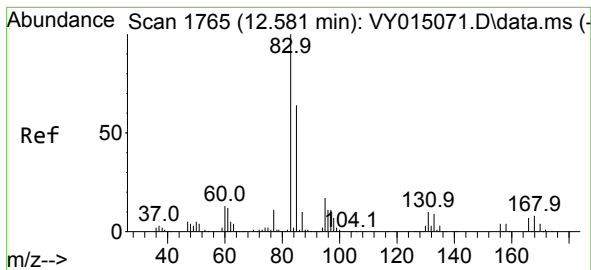
43 100

70 38.3 29.7 44.5

55 0.0 18.3 27.5#

61 0.0 17.5 26.3#





#75

1,1,2,2-Tetrachloroethane

Concen: 2.504 ug/l

RT: 12.599 min Scan# 1768

Delta R.T. 0.018 min

Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Instrument :

MSVOA_Y

ClientSampleId :

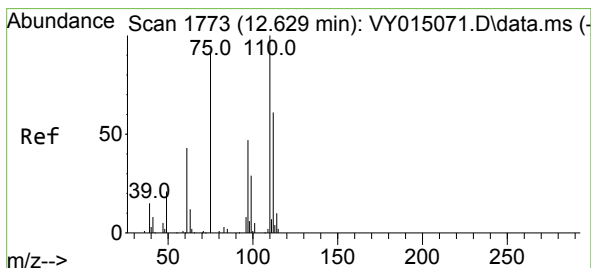
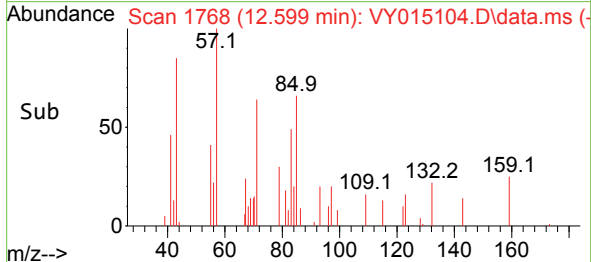
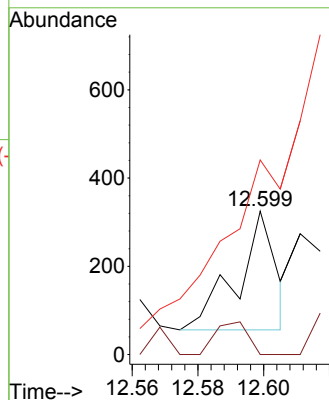
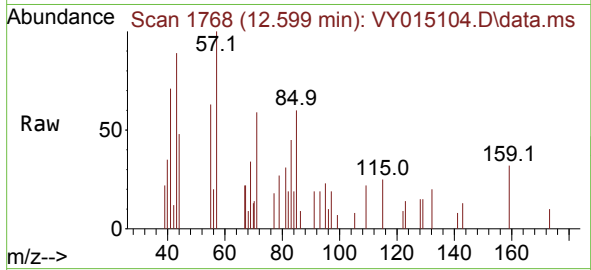
Tgt Ion: 83 Resp: 221

Ion Ratio Lower Upper

83 100

131 23.1 5.4 16.2#

85 0.0 31.8 95.4#



#76

1,2,3-Trichloropropane

Concen: 46.559 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015104.D

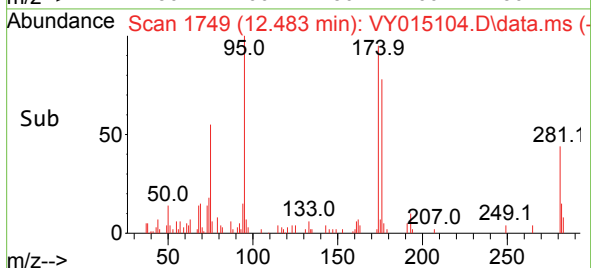
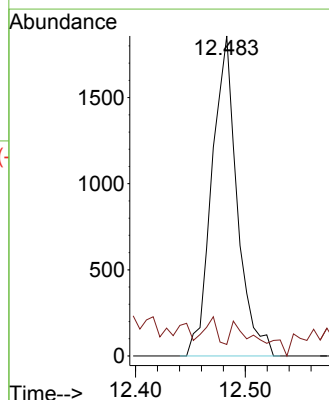
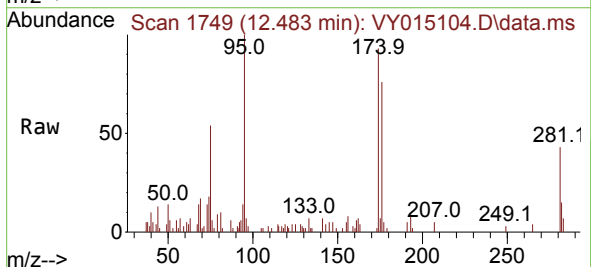
Acq: 15 Aug 2023 15:30

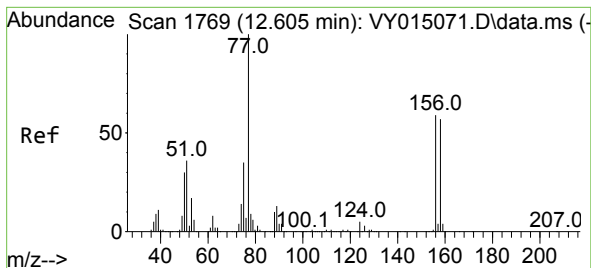
Tgt Ion: 75 Resp: 2981

Ion Ratio Lower Upper

75 100

77 11.2 0.0 0.0#





#77

Bromobenzene

Concen: 3.668 ug/l

RT: 12.373 min Scan# 11

Delta R.T. -0.232 min

Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Instrument :

MSVOA_Y

ClientSampleId :

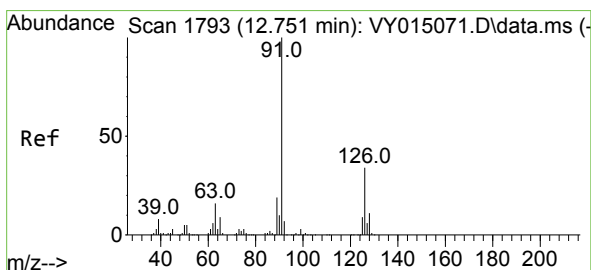
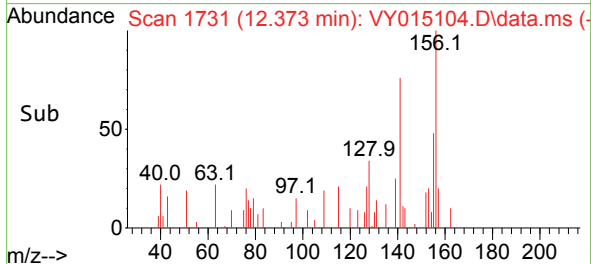
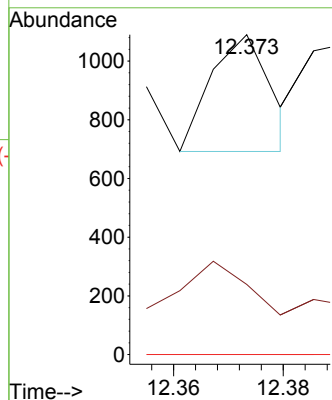
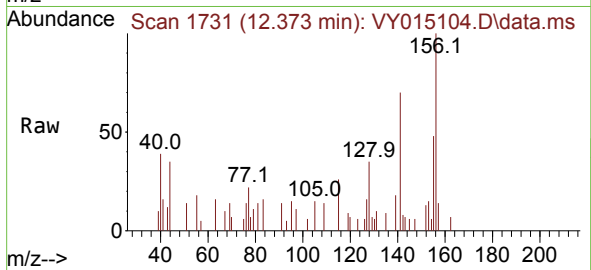
Tgt Ion:156 Resp: 303

Ion Ratio Lower Upper

156 100

77 48.2 92.8 278.6#

158 0.0 48.4 145.3#



#79

2-Chlorotoluene

Concen: 1.503 ug/l

RT: 12.757 min Scan# 1794

Delta R.T. 0.006 min

Lab File: VY015104.D

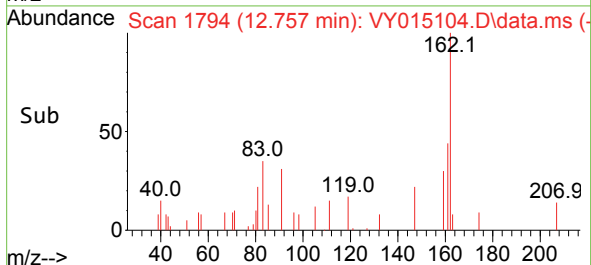
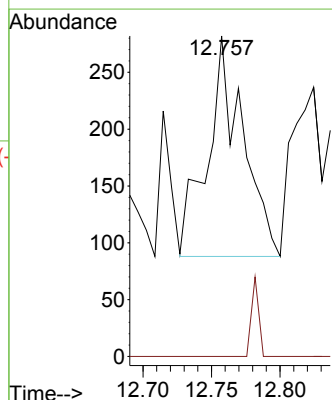
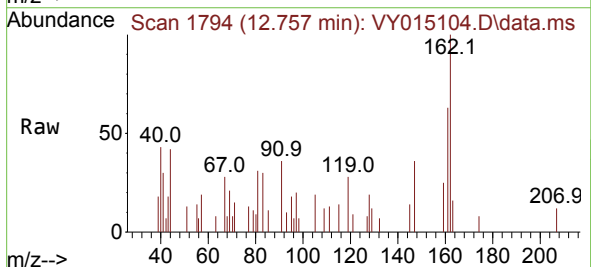
Acq: 15 Aug 2023 15:30

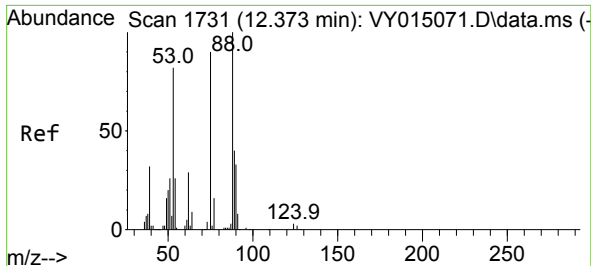
Tgt Ion: 91 Resp: 349

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#

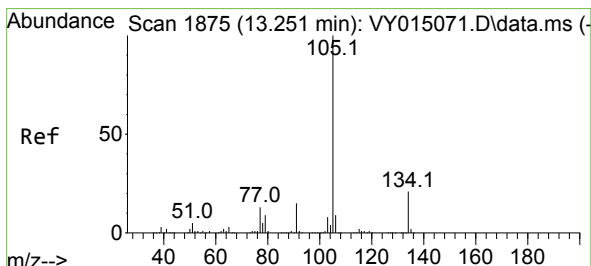
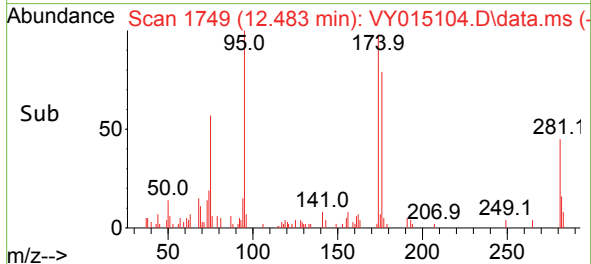
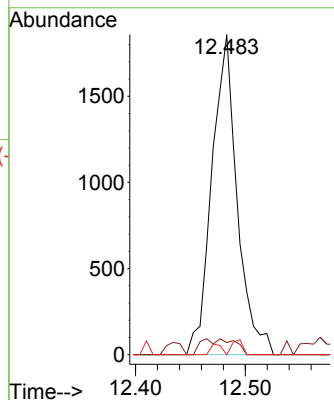
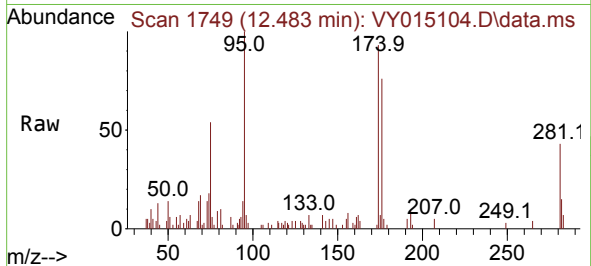




#81
trans-1,4-Dichloro-2-butene
Concen: 102.266 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.110 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

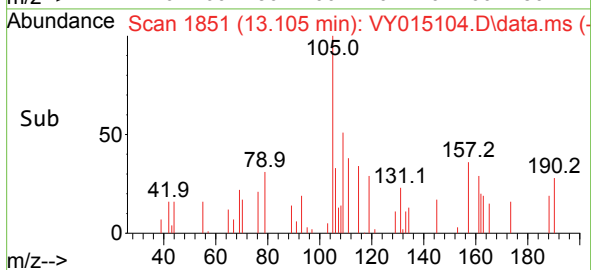
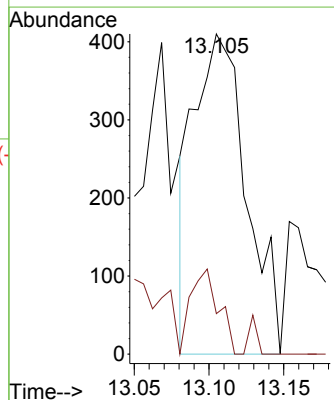
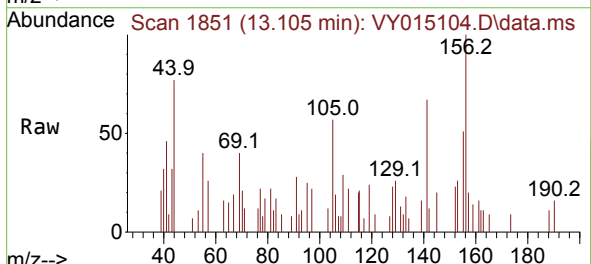
Instrument :
MSVOA_Y
ClientSampleId :

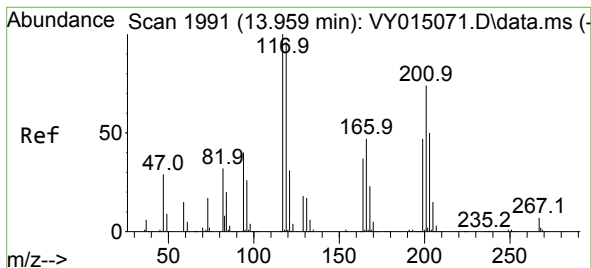
Tgt Ion: 75 Resp: 2981
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 1.9 37.4 56.0#



#85
sec-Butylbenzene
Concen: 2.671 ug/l
RT: 13.105 min Scan# 1851
Delta R.T. -0.146 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Tgt Ion: 105 Resp: 1011
Ion Ratio Lower Upper
105 100
134 14.0 10.2 30.6





#90

Hexachloroethane

Concen: 2.040 ug/l

RT: 13.946 min Scan# 1991

Delta R.T. -0.012 min

Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

Instrument :

MSVOA_Y

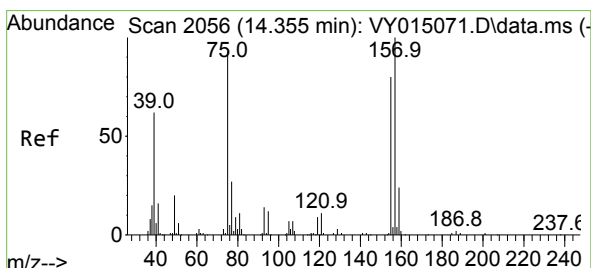
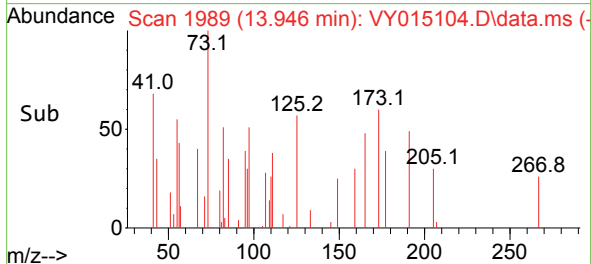
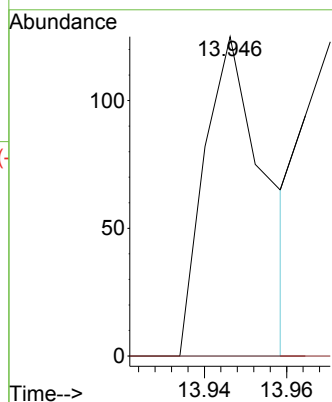
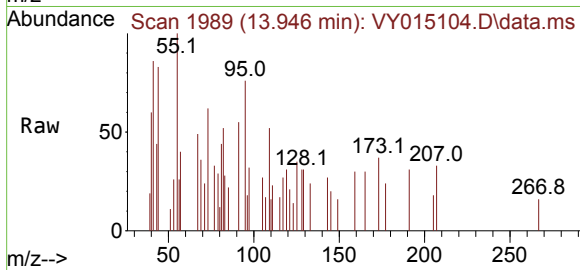
ClientSampleId :

Tgt Ion:117 Resp: 127

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.170 ug/l

RT: 14.251 min Scan# 2039

Delta R.T. -0.104 min

Lab File: VY015104.D

Acq: 15 Aug 2023 15:30

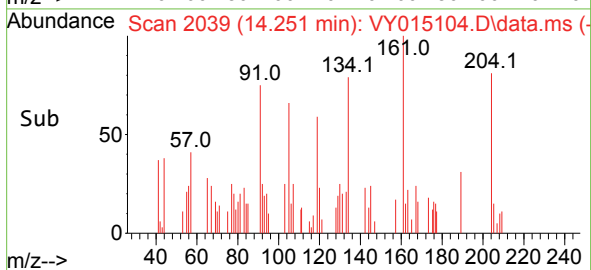
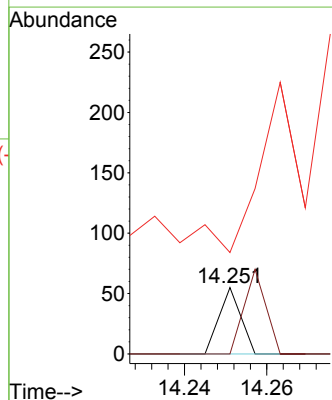
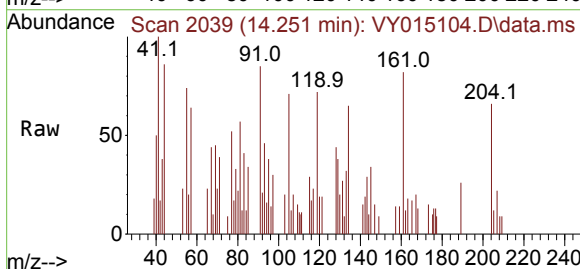
Tgt Ion: 75 Resp: 20

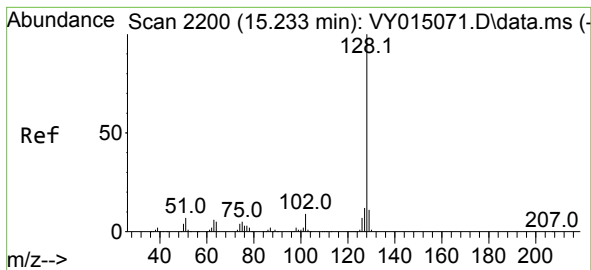
Ion Ratio Lower Upper

75 100

155 130.0 41.5 124.6#

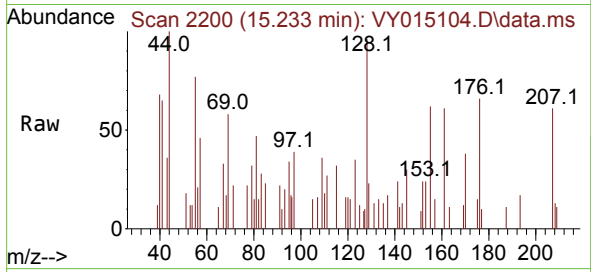
157 0.0 51.8 155.5#





#95
Naphthalene
Concen: 2.917 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY015104.D
Acq: 15 Aug 2023 15:30

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 714
Ion Ratio Lower Upper
128 100
127 17.2 10.8 16.2#
129 10.2 8.6 13.0

