

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082523\
 Data File : VY015346.D
 Acq On : 25 Aug 2023 16:39
 Operator : SY/MD
 Sample : 04146-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 25 23:44:05 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)

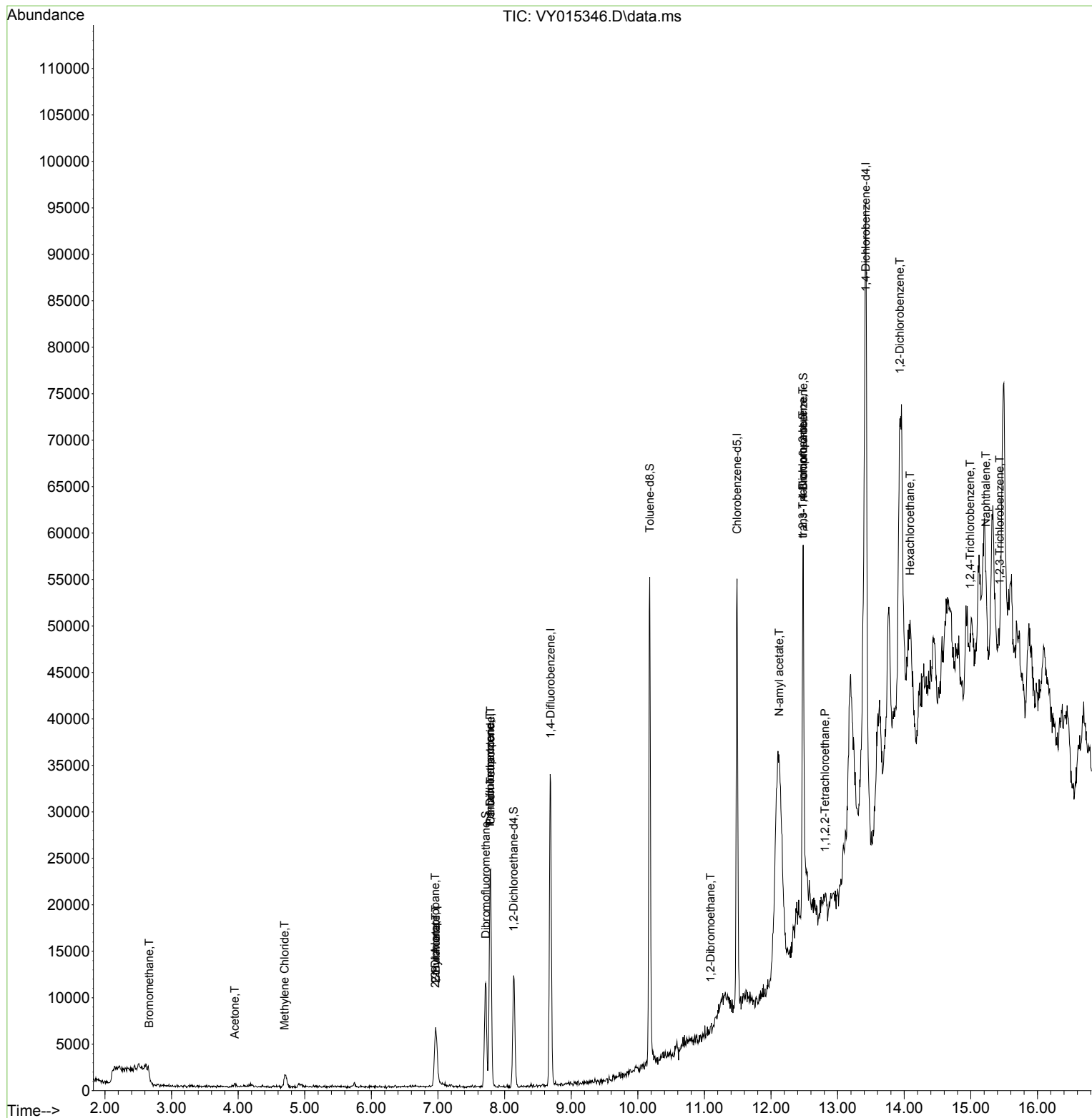
Internal Standards						
1) Pentafluorobenzene	7.783	168	18725	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	29481	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	25918	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	10870	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	9993	44.458	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	88.920%
35) Dibromofluoromethane	7.716	113	7964	41.991	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	83.980%
50) Toluene-d8	10.179	98	34415	48.744	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.480%
62) 4-Bromofluorobenzene	12.483	95	11642	45.146	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	90.300%
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	129	Below Cal	#	43
5) Bromomethane	2.662	94	248	1.108	ug/l	99
11) Tert butyl alcohol	4.936	59	262	Below Cal	#	89
16) Acetone	3.948	43	442	6.019	ug/l	98
20) Methylene Chloride	4.698	84	1058	1.849	ug/l	# 61
25) 2-Butanone	6.966	43	371	3.568	ug/l	# 49
26) 2,2-Dichloropropane	6.960	77	521	1.732	ug/l	# 54
31) Cyclohexane	7.789	56	463	Below Cal	#	34
36) 1,1-Dichloropropene	7.783	75	1551	7.392	ug/l	# 41
37) Ethyl Acetate	6.966	43	371	1.897	ug/l	# 44
38) Carbon Tetrachloride	7.789	117	1799	7.244	ug/l	# 12
61) 1,2-Dibromoethane	11.093	107	206	1.264	ug/l	89
74) N-amyl acetate	12.124	43	886	3.511	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.812	83	293	1.609	ug/l	87
76) 1,2,3-Trichloropropane	12.477	75	5587	42.306	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.477	75	5587	92.924	ug/l	# 13
90) Hexachloroethane	14.087	117	212	1.651	ug/l	62
91) 1,2-Dichlorobenzene	13.934	146	407	1.289	ug/l	66
93) 1,2,4-Trichlorobenzene	14.989	180	312	1.539	ug/l	# 1
95) Naphthalene	15.227	128	1504	2.979	ug/l	# 77
96) 1,2,3-Trichlorobenzene	15.434	180	193	1.054	ug/l	# 19

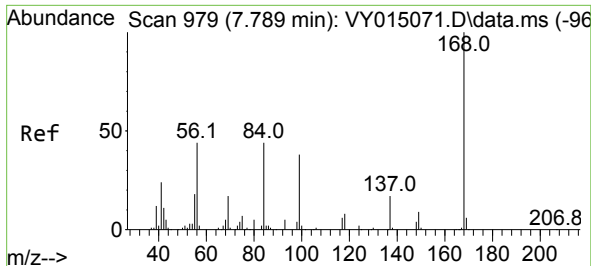
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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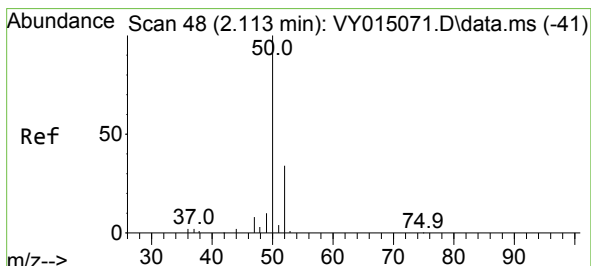
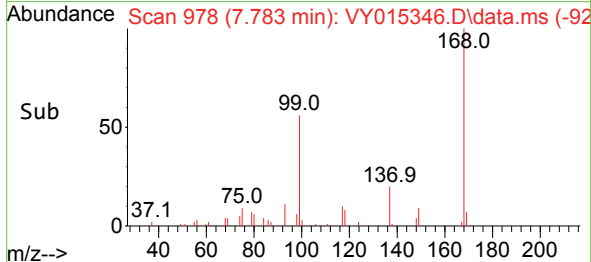
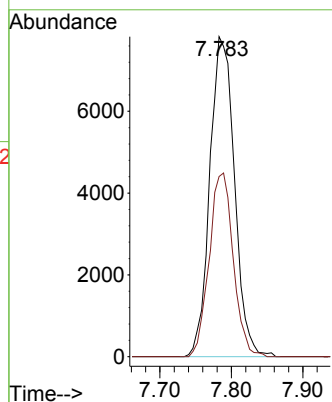
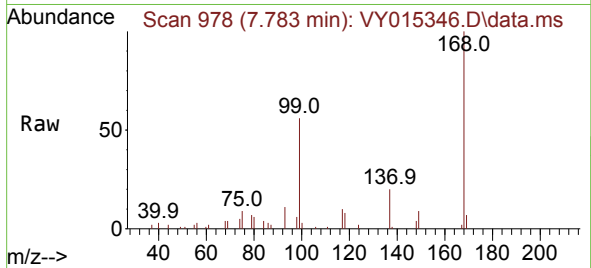




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

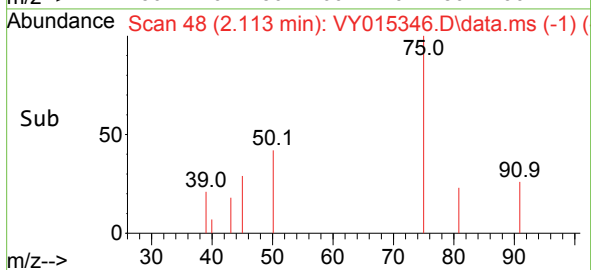
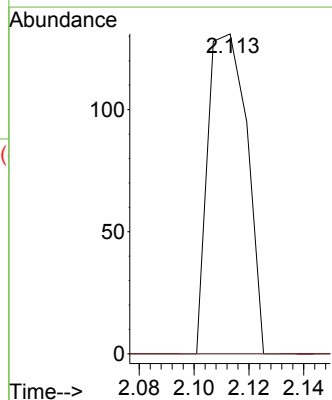
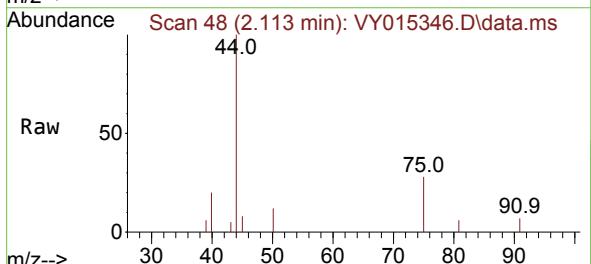
Instrument :
MSVOA_Y
ClientSampleId :

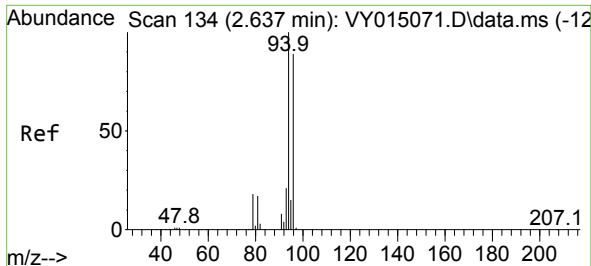
Tgt Ion:168 Resp: 18725
Ion Ratio Lower Upper
168 100
99 56.3 43.4 65.0



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

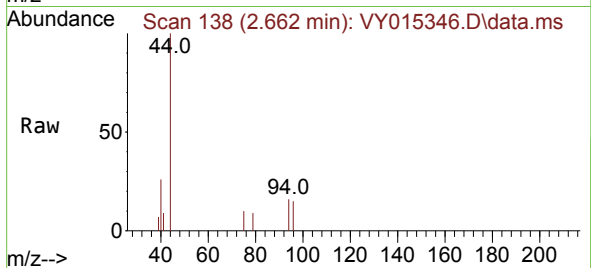
Tgt Ion: 50 Resp: 129
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#



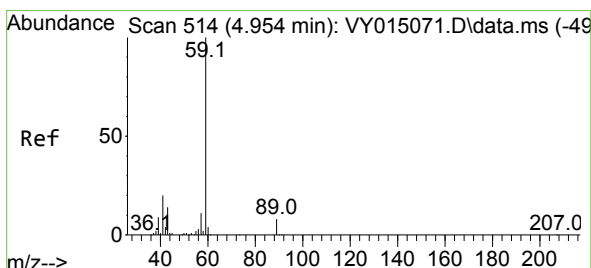
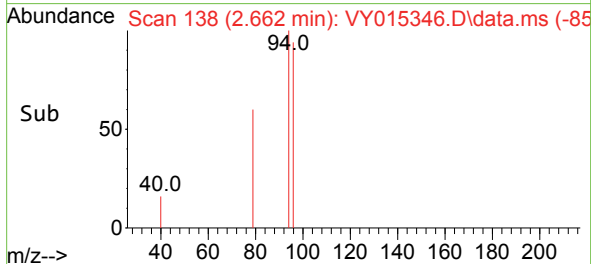
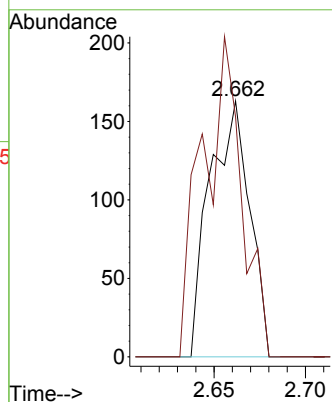


#5
Bromomethane
Concen: 1.108 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.025 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

Instrument :
MSVOA_Y
ClientSampleId :

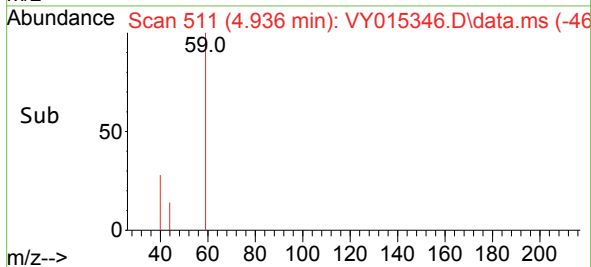
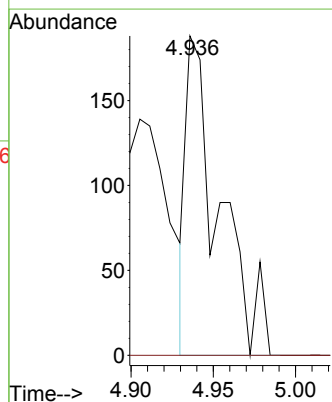
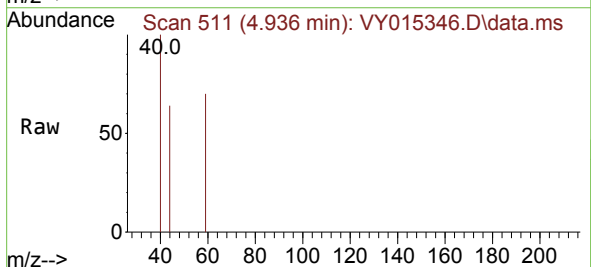


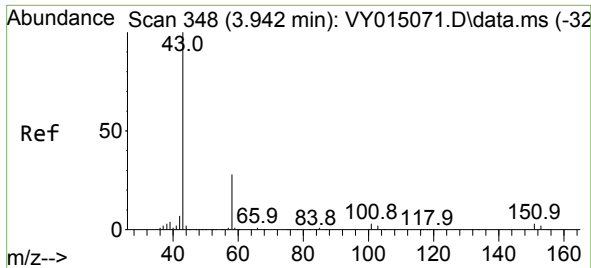
Tgt Ion: 94 Resp: 248
Ion Ratio Lower Upper
94 100
96 93.9 75.8 113.6



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.936 min Scan# 511
Delta R.T. -0.012 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

Tgt Ion: 59 Resp: 262
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

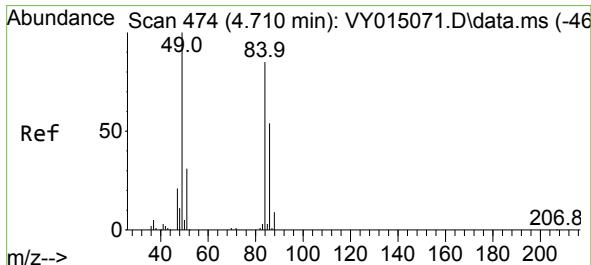
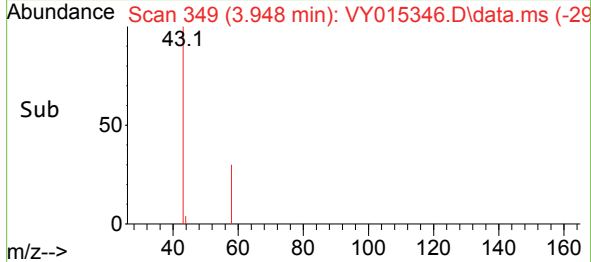
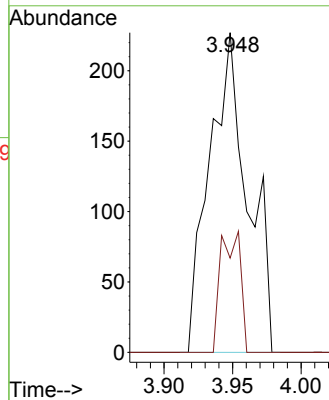
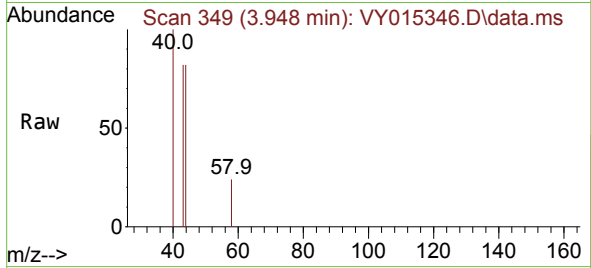




#16
Acetone
Concen: 6.019 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

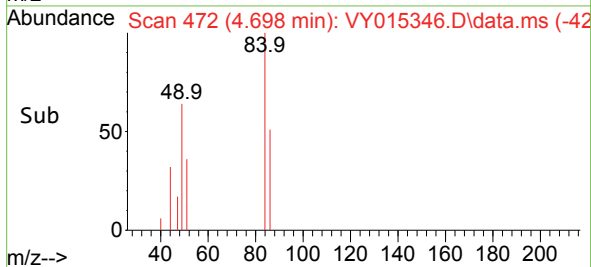
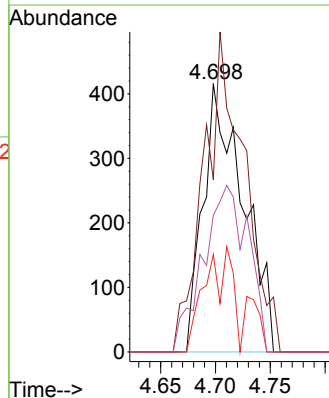
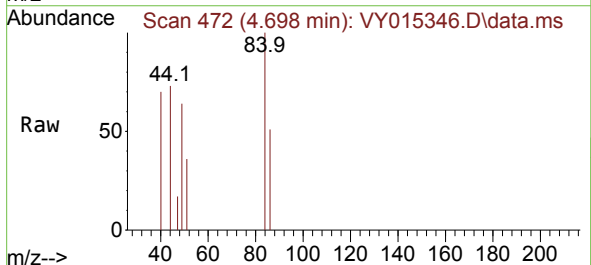
Instrument :
MSVOA_Y
ClientSampleId :

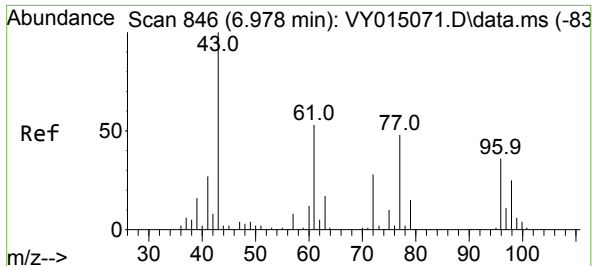
Tgt Ion: 43 Resp: 442
Ion Ratio Lower Upper
43 100
58 29.5 22.7 34.1



#20
Methylene Chloride
Concen: 1.849 ug/l
RT: 4.698 min Scan# 472
Delta R.T. -0.012 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

Tgt Ion: 84 Resp: 1058
Ion Ratio Lower Upper
84 100
49 64.2 106.9 160.3#
51 36.3 33.2 49.8
86 51.0 51.0 76.6#





#25

2-Butanone

Concen: 3.568 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.012 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Instrument :

MSVOA_Y

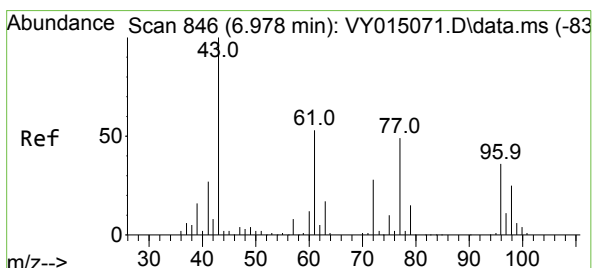
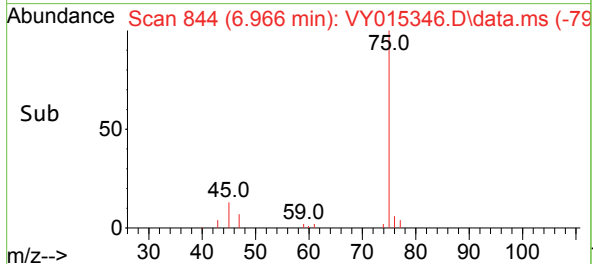
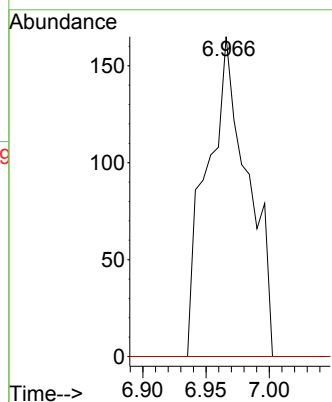
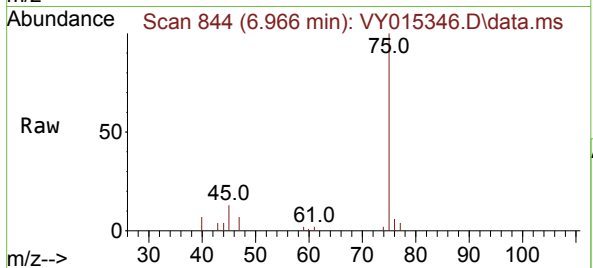
ClientSampleId :

Tgt Ion: 43 Resp: 371

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#26

2,2-Dichloropropane

Concen: 1.732 ug/l

RT: 6.960 min Scan# 843

Delta R.T. -0.012 min

Lab File: VY015346.D

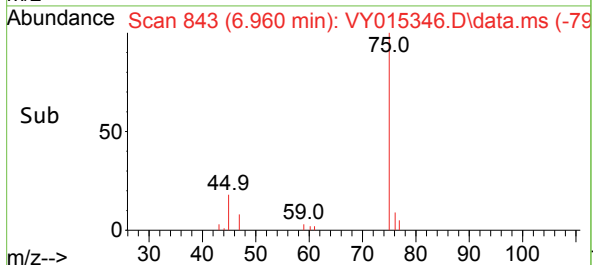
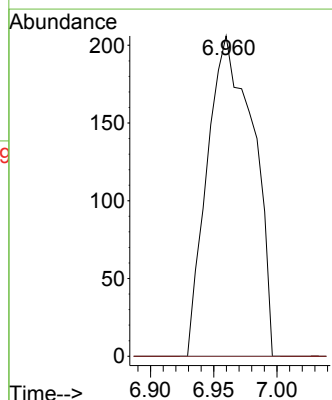
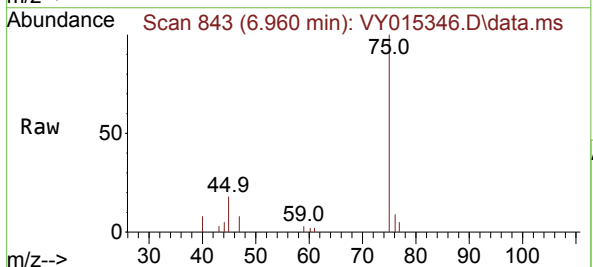
Acq: 25 Aug 2023 16:39

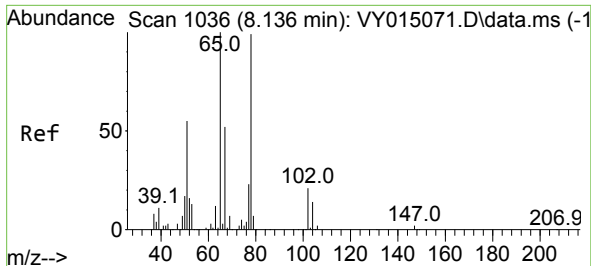
Tgt Ion: 77 Resp: 521

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 44.458 ug/l

RT: 8.136 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Instrument :

MSVOA_Y

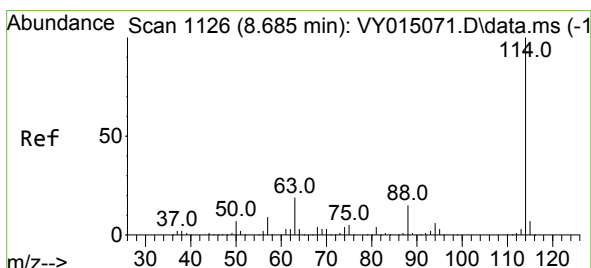
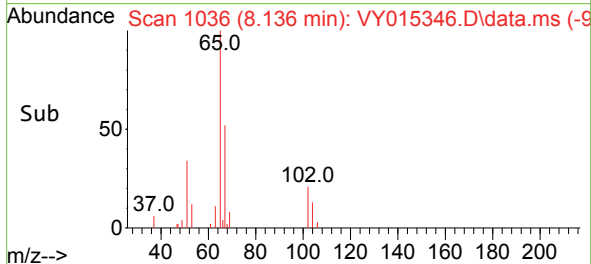
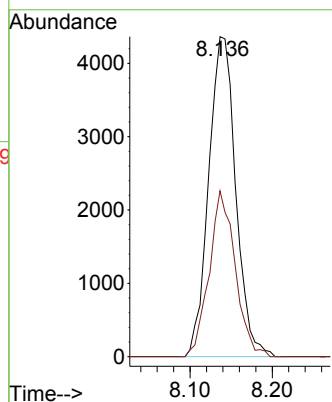
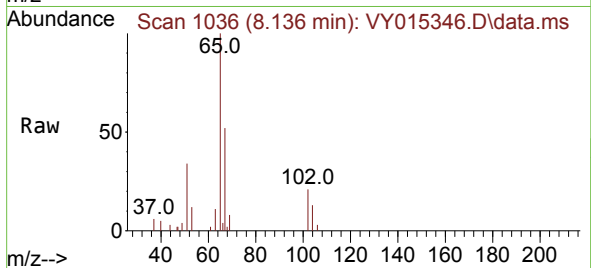
ClientSampleId :

Tgt Ion: 65 Resp: 9993

Ion Ratio Lower Upper

65 100

67 49.8 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

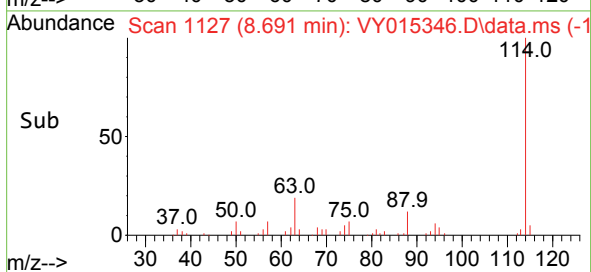
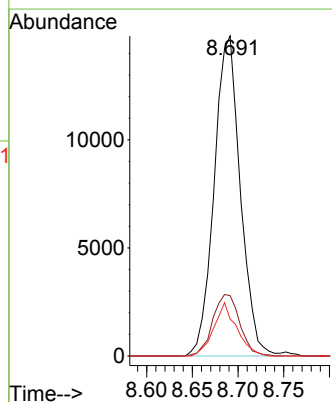
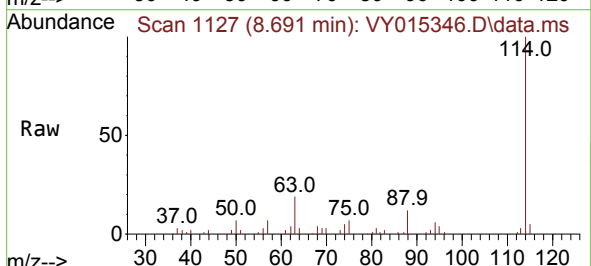
Tgt Ion: 114 Resp: 29481

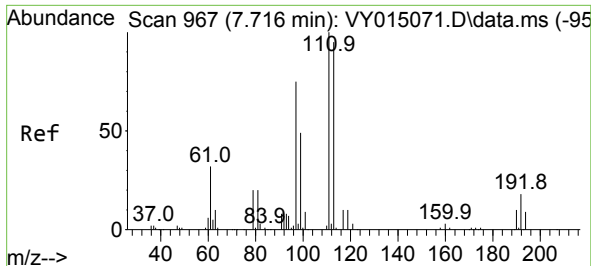
Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.4

88 11.6 0.0 30.6

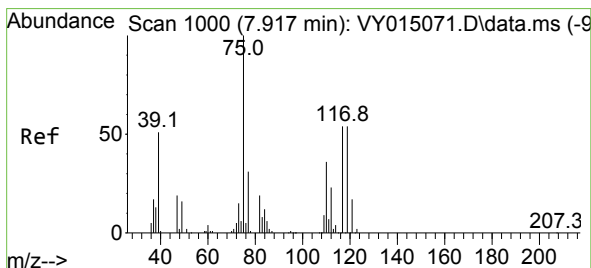
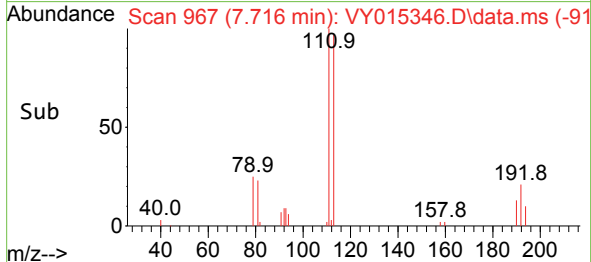
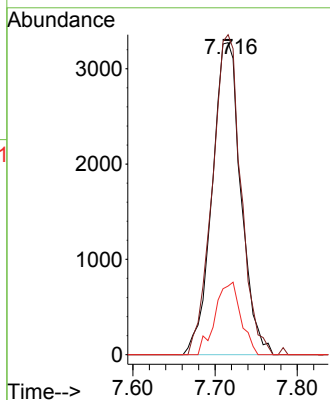
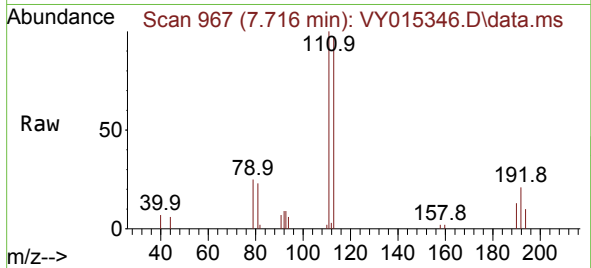




#35
Dibromofluoromethane
Concen: 41.991 ug/l
RT: 7.716 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

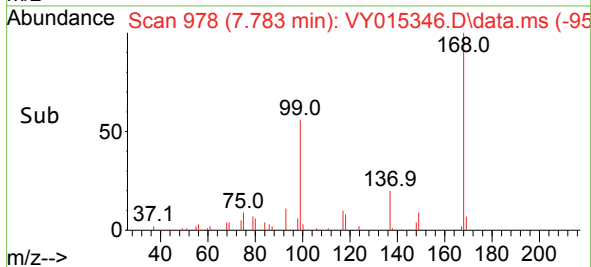
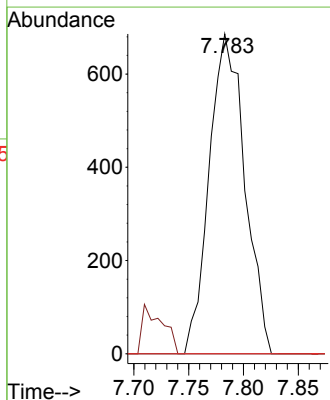
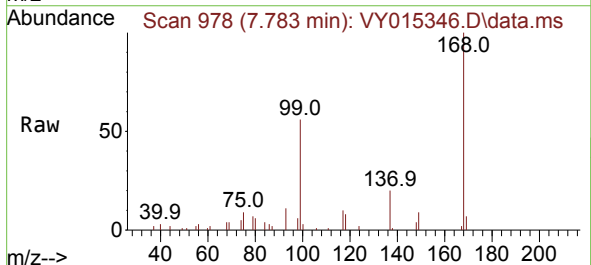
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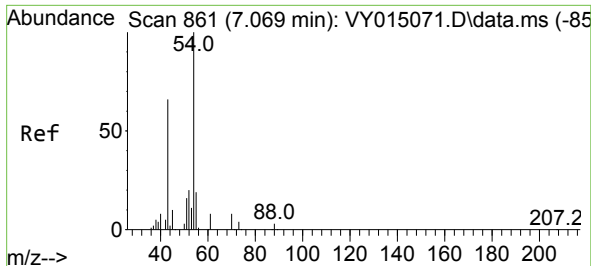
Tgt Ion:113 Resp: 7964
Ion Ratio Lower Upper
113 100
111 101.8 81.3 121.9
192 20.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 7.392 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

Tgt Ion: 75 Resp: 1551
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.897 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.104 min

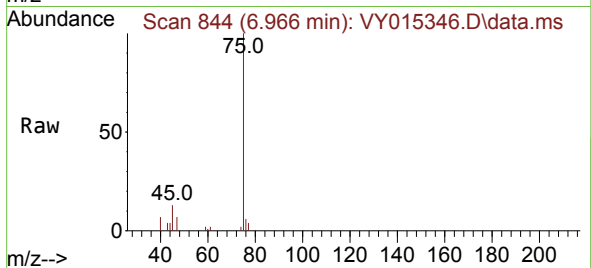
Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :



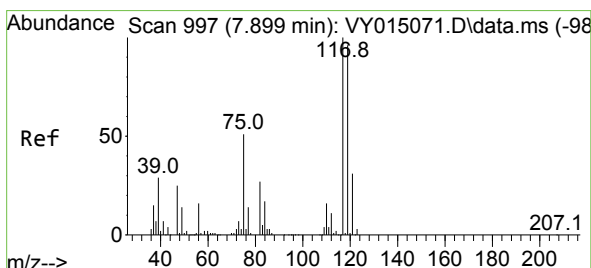
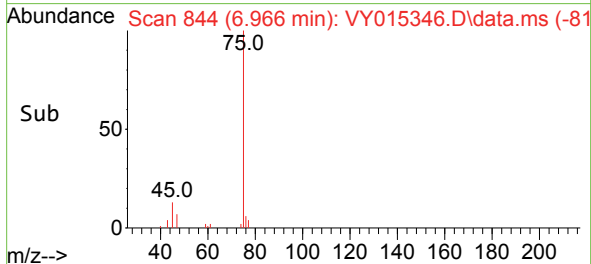
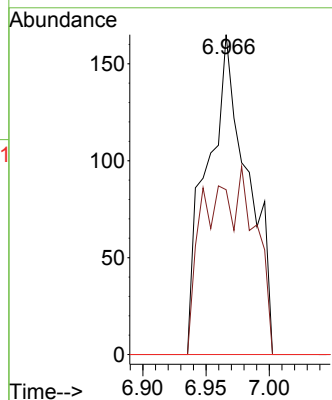
Tgt Ion: 43 Resp: 371

Ion Ratio Lower Upper

43 100

61 43.7 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.244 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

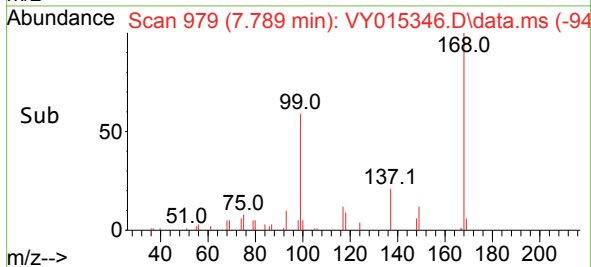
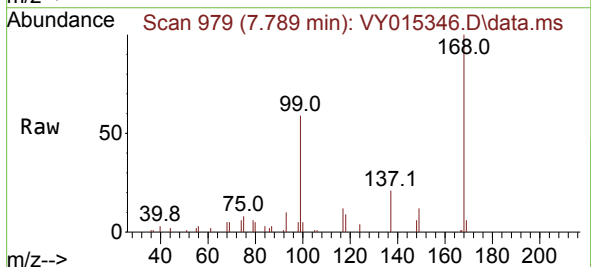
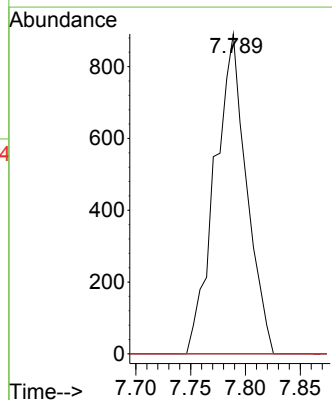
Tgt Ion: 117 Resp: 1799

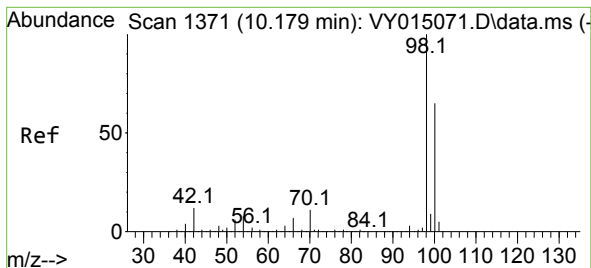
Ion Ratio Lower Upper

117 100

119 0.0 76.4 114.6#

121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 48.744 ug/l

RT: 10.179 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Instrument :

MSVOA_Y

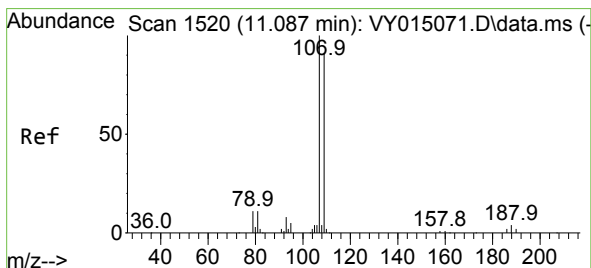
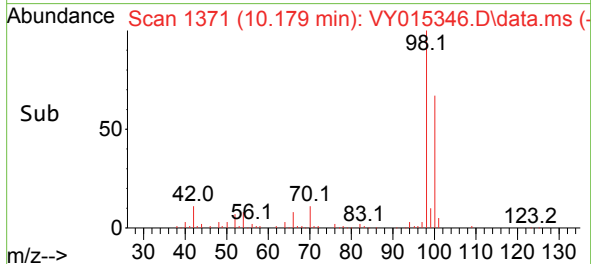
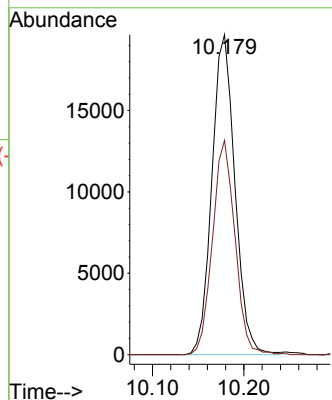
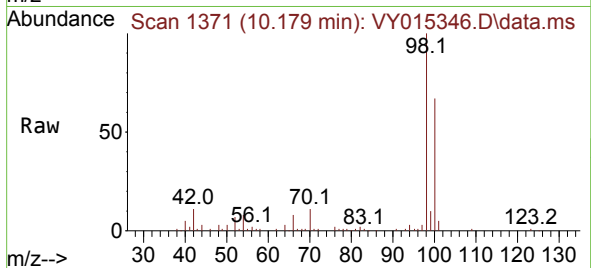
ClientSampleId :

Tgt Ion: 98 Resp: 34415

Ion Ratio Lower Upper

98 100

100 65.3 50.1 75.1



#61

1,2-Dibromoethane

Concen: 1.264 ug/l

RT: 11.093 min Scan# 1521

Delta R.T. 0.006 min

Lab File: VY015346.D

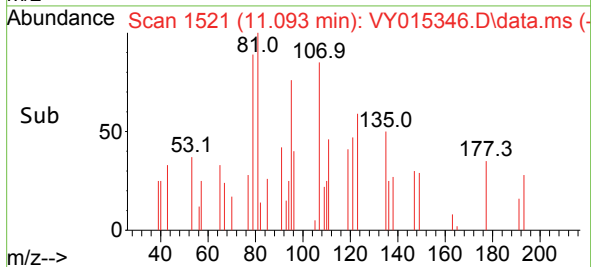
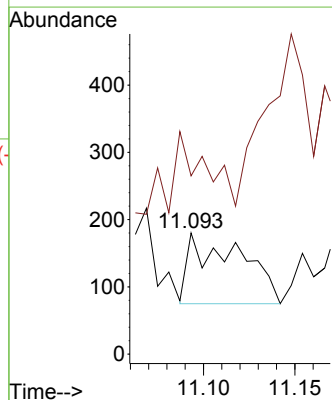
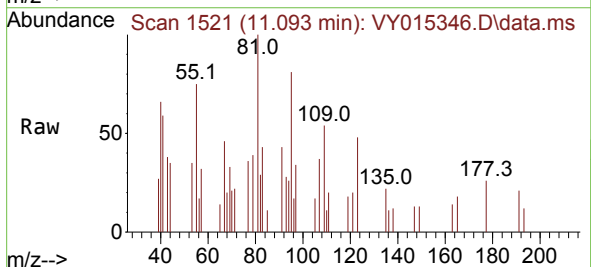
Acq: 25 Aug 2023 16:39

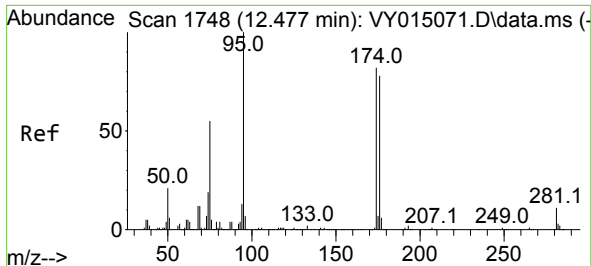
Tgt Ion: 107 Resp: 206

Ion Ratio Lower Upper

107 100

109 83.5 75.6 113.4

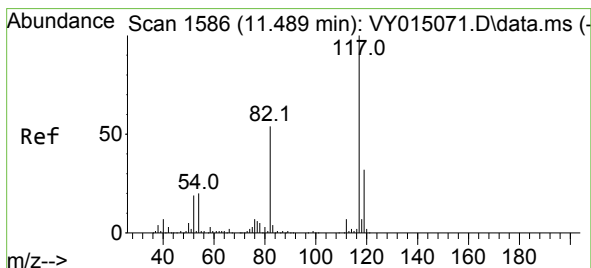
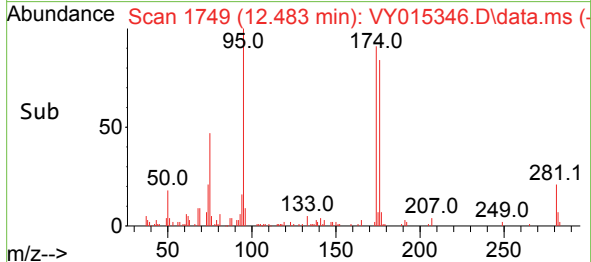
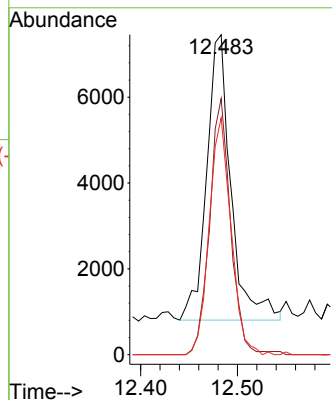
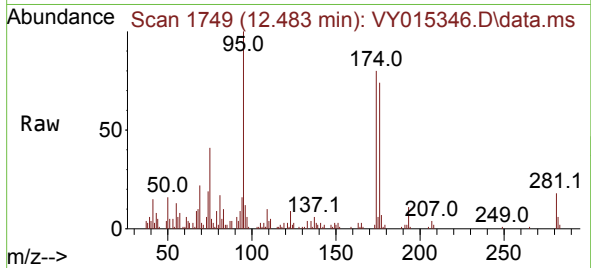




#62
4-Bromofluorobenzene
Concen: 45.146 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

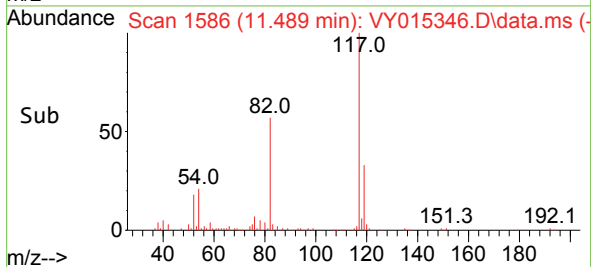
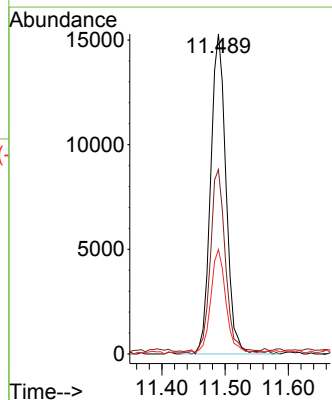
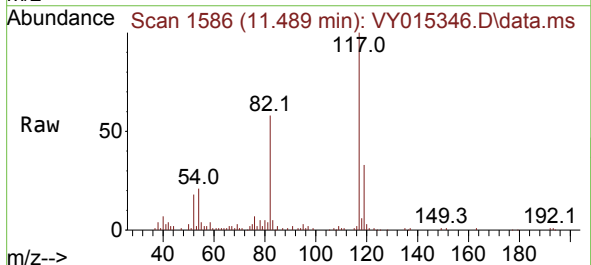
Instrument :
MSVOA_Y
ClientSampleId :

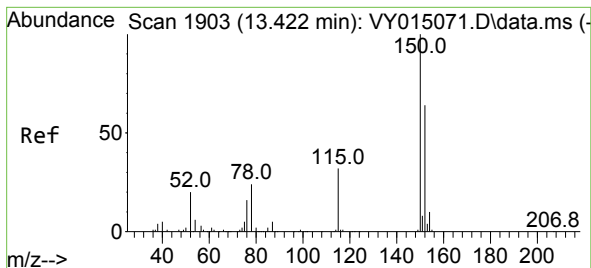
Tgt Ion: 95 Resp: 11642
Ion Ratio Lower Upper
95 100
174 77.5 0.0 178.2
176 74.3 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

Tgt Ion: 117 Resp: 25918
Ion Ratio Lower Upper
117 100
82 56.7 43.4 65.0
119 32.1 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

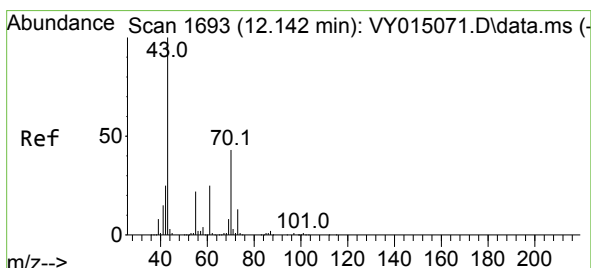
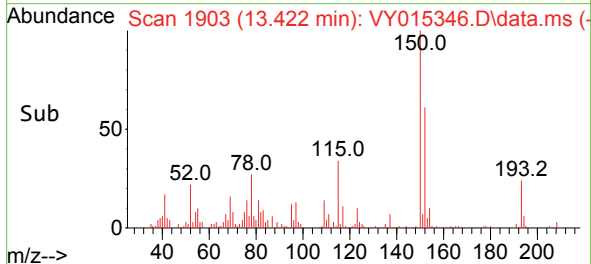
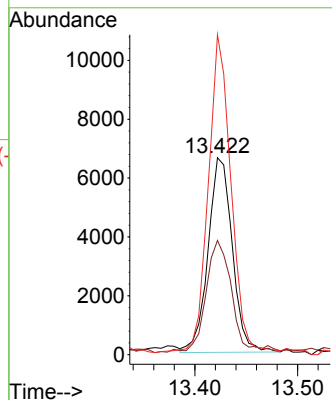
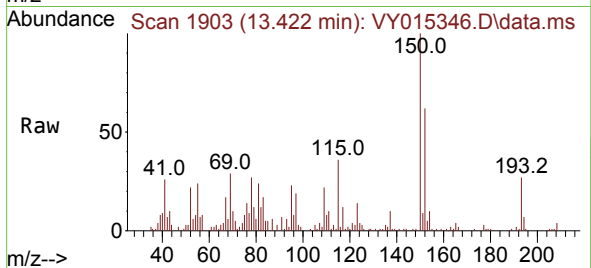
Tgt Ion:152 Resp: 10870

Ion Ratio Lower Upper

152 100

115 59.0 28.8 86.5

150 151.9 0.0 348.8



#74

N-ethyl acetate

Concen: 3.511 ug/l

RT: 12.124 min Scan# 1690

Delta R.T. -0.018 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Tgt Ion: 43 Resp: 886

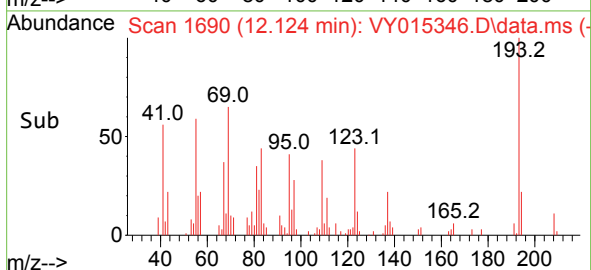
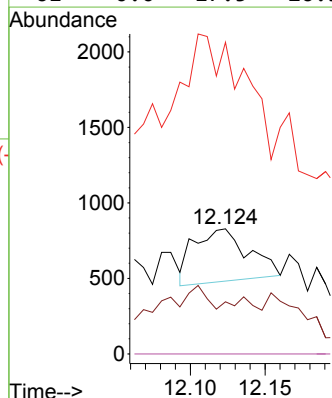
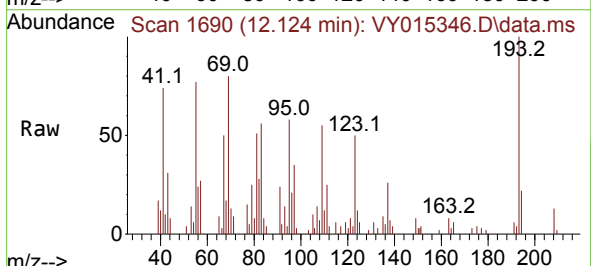
Ion Ratio Lower Upper

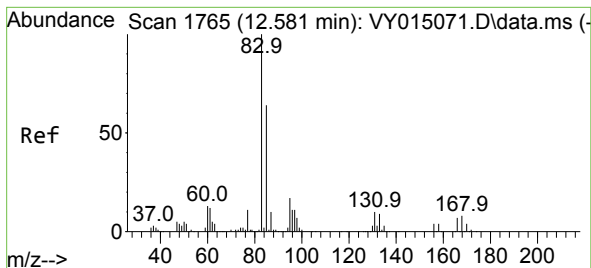
43 100

70 130.5 29.7 44.5#

55 714.2 18.3 27.5#

61 0.0 17.5 26.3#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.609 ug/l

RT: 12.812 min Scan# 1765

Delta R.T. 0.232 min

Lab File: VY015346.D

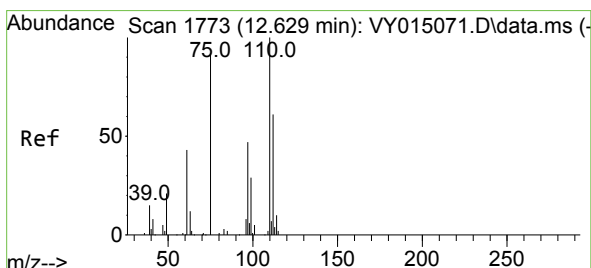
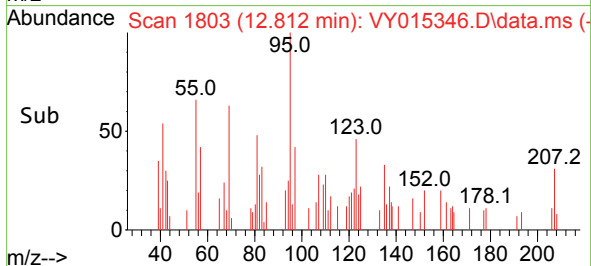
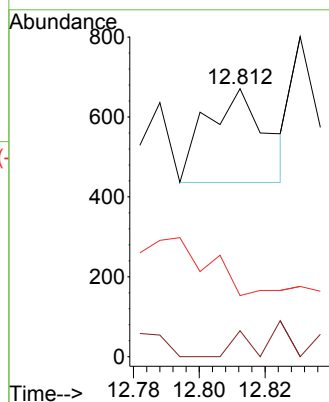
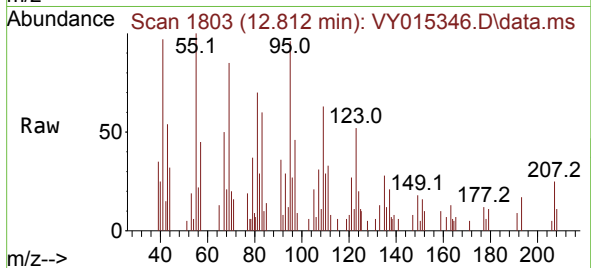
Acq: 25 Aug 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	83	Resp:	293
Ion	Ratio	Lower	Upper
83	100		
131	8.2	5.4	16.2
85	74.7	31.8	95.4



#76

1,2,3-Trichloropropane

Concen: 42.306 ug/l

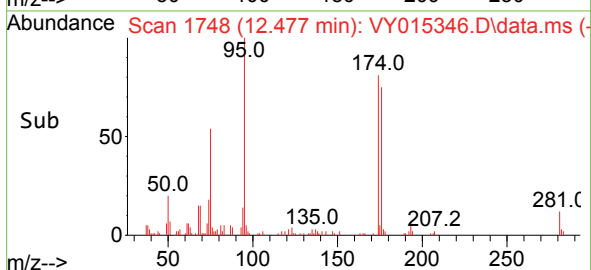
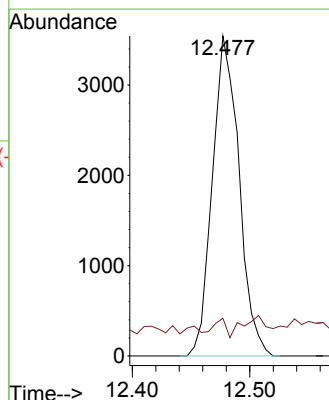
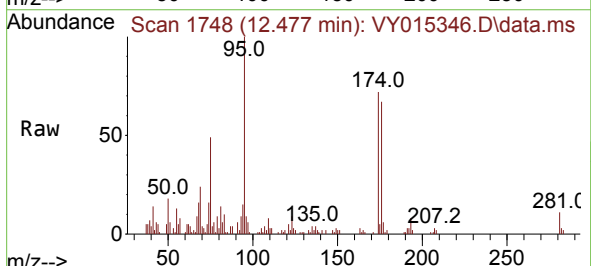
RT: 12.477 min Scan# 1748

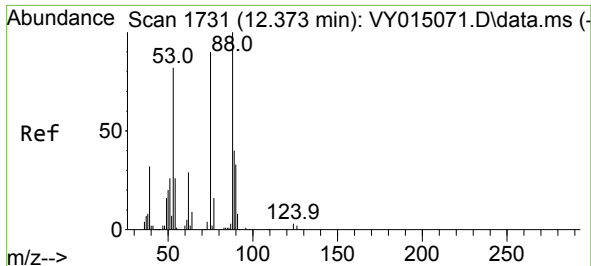
Delta R.T. -0.152 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Tgt Ion:	75	Resp:	5587
Ion	Ratio	Lower	Upper
75	100		
77	2.9	0.0	0.0#

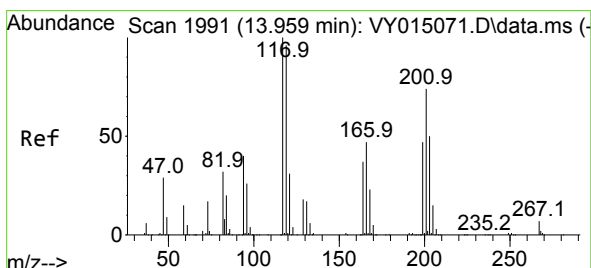
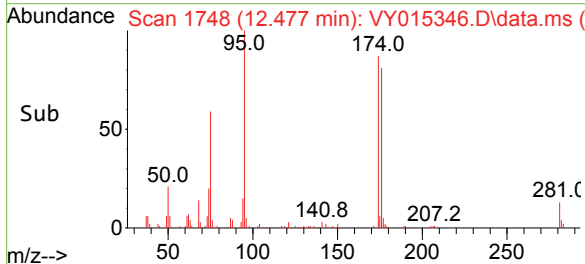
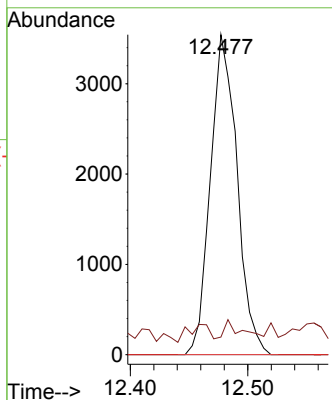
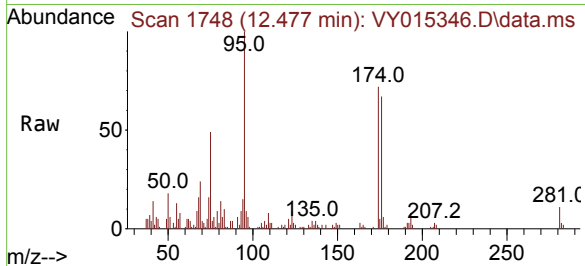




#81
trans-1,4-Dichloro-2-butene
Concen: 92.924 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

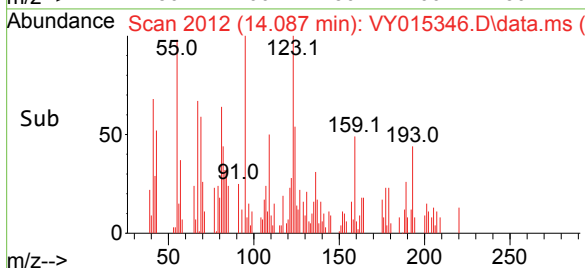
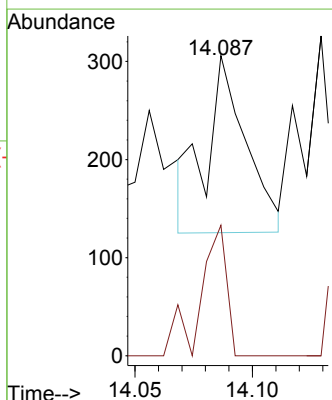
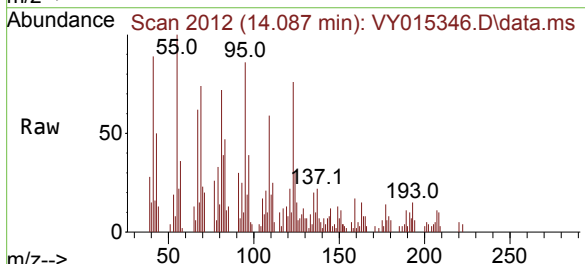
Instrument :
MSVOA_Y
ClientSampleId :

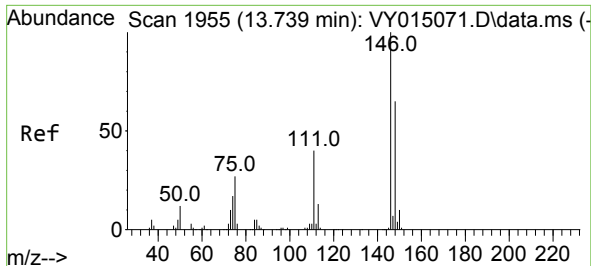
Tgt Ion: 75 Resp: 5587
Ion Ratio Lower Upper
75 100
53 4.3 77.8 116.8#
89 0.0 37.4 56.0#



#90
Hexachloroethane
Concen: 1.651 ug/l
RT: 14.087 min Scan# 2012
Delta R.T. 0.128 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

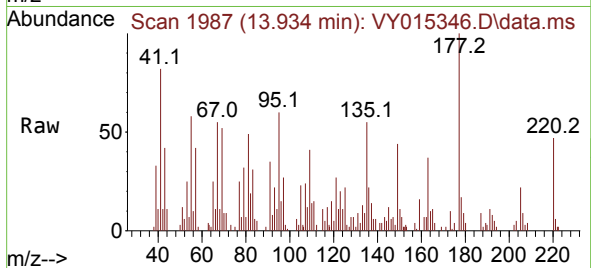
Tgt Ion: 117 Resp: 212
Ion Ratio Lower Upper
117 100
201 48.6 41.6 124.8



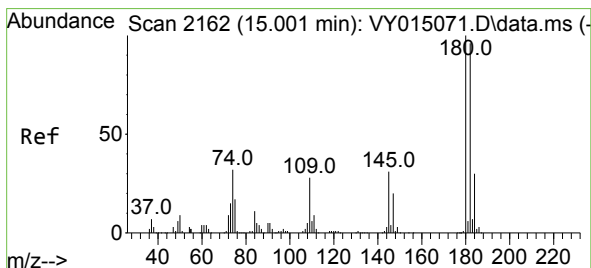
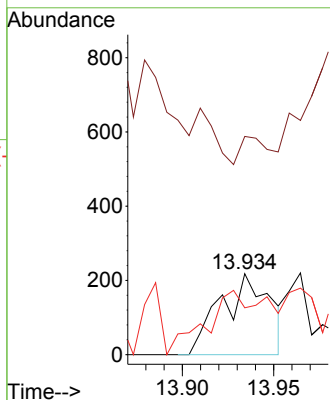
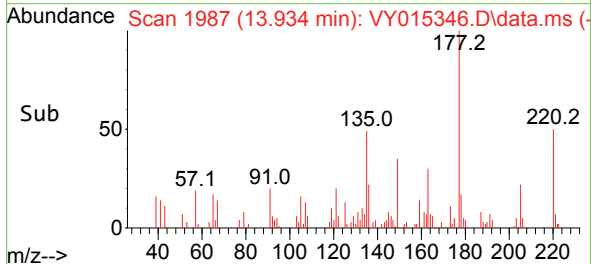


#91
1,2-Dichlorobenzene
Concen: 1.289 ug/l
RT: 13.934 min Scan# 1955
Delta R.T. 0.201 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39

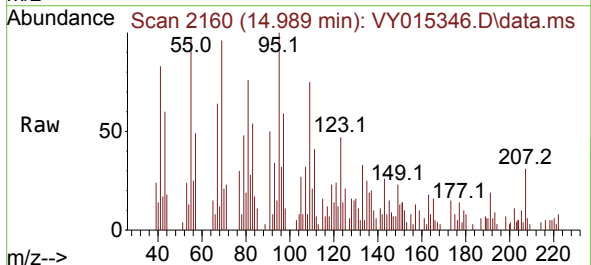
Instrument :
MSVOA_Y
ClientSampleId :



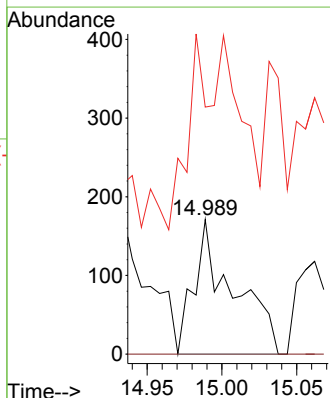
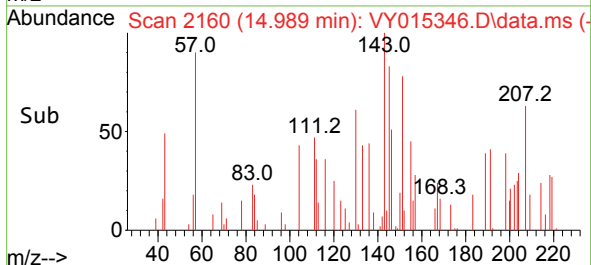
Tgt Ion:146 Resp: 407
Ion Ratio Lower Upper
146 100
111 19.9 19.7 59.0
148 36.4 32.0 96.2

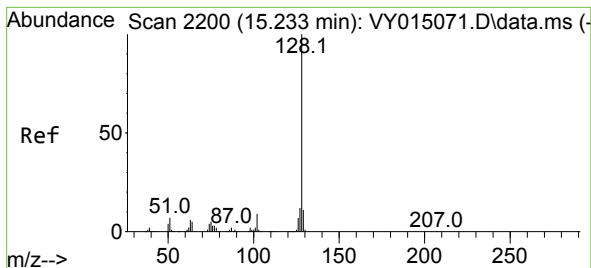


#93
1,2,4-Trichlorobenzene
Concen: 1.539 ug/l
RT: 14.989 min Scan# 2160
Delta R.T. -0.018 min
Lab File: VY015346.D
Acq: 25 Aug 2023 16:39



Tgt Ion:180 Resp: 312
Ion Ratio Lower Upper
180 100
182 0.0 47.0 141.2#
145 172.8 14.5 43.5#





#95

Naphthalene

Concen: 2.979 ug/l

RT: 15.227 min Scan# 2199

Delta R.T. -0.006 min

Lab File: VY015346.D

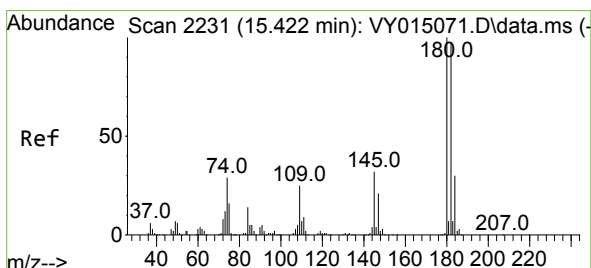
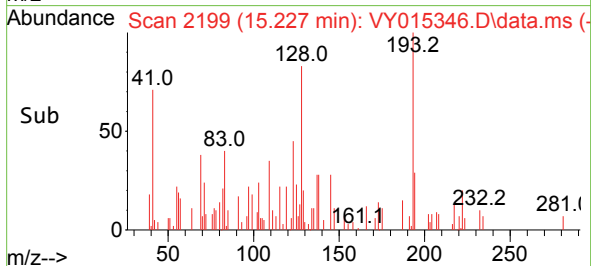
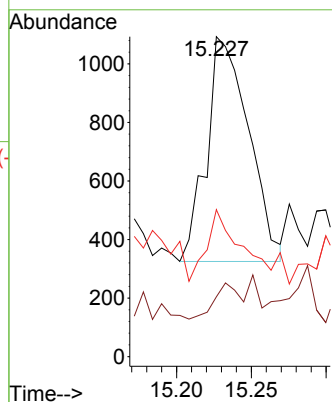
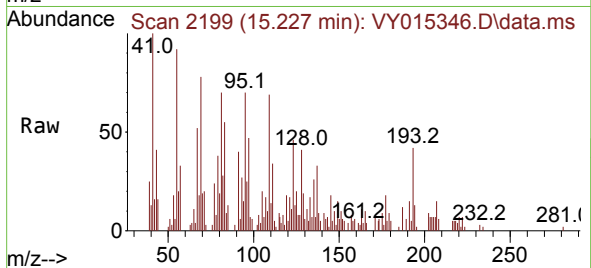
Acq: 25 Aug 2023 16:39

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	128	Resp:	1504
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.8	16.2
129	30.1	8.6	13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.054 ug/l

RT: 15.434 min Scan# 2233

Delta R.T. 0.012 min

Lab File: VY015346.D

Acq: 25 Aug 2023 16:39

Tgt Ion:	180	Resp:	193
Ion Ratio	Lower	Upper	
180	100		
182	0.0	47.3	141.8#
145	47.7	15.4	46.2#

