

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110623\
 Data File : VY016234.D
 Acq On : 06 Nov 2023 14:09
 Operator : SY/MD
 Sample : 05252-03
 Misc : 5.18g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

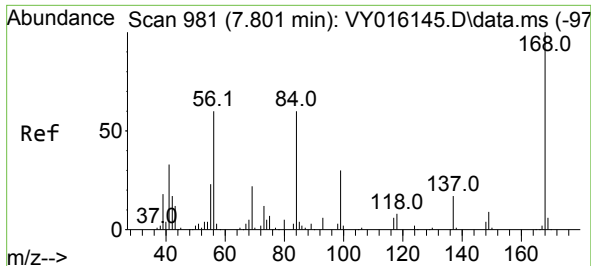
Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 06 23:57:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 01 03:33:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	3357	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	5657	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	5297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	2027	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	1756	55.901	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 111.800%	
35) Dibromofluoromethane	7.722	113	1019	30.215	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 60.420%	
50) Toluene-d8	10.185	98	6836	51.124	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.240%	
62) 4-Bromofluorobenzene	12.489	95	2325	50.849	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 101.700%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	151	5.093	ug/l #	43
4) Vinyl Chloride	2.259	62	158	5.163	ug/l #	44
16) Acetone	3.948	43	201	22.740	ug/l #	46
20) Methylene Chloride	4.728	84	293	6.522	ug/l #	65
36) 1,1-Dichloropropene	7.789	75	210	4.312	ug/l #	41
38) Carbon Tetrachloride	7.777	117	293	6.073	ug/l #	12
40) Benzene	8.167	78	511	3.655	ug/l #	52
52) Toluene	10.252	92	623	6.877	ug/l	99
53) t-1,3-Dichloropropene	10.484	75	164	3.389	ug/l #	1
54) cis-1,3-Dichloropropene	10.154	75	89	1.567	ug/l #	27
57) 1,3-Dichloropropane	10.587	76	123	2.692	ug/l #	43
67) Ethyl Benzene	11.599	91	1169	6.210	ug/l	95
68) m/p-Xylenes	11.709	106	488	6.709	ug/l #	57
69) o-Xylene	12.050	106	158	2.275	ug/l #	2
75) 1,1,2,2-Tetrachloroethane	12.544	83	60	2.480	ug/l #	26
76) 1,2,3-Trichloropropane	12.581	75	80	4.191	ug/l #	100
77) Bromobenzene	12.398	156	32968	957.558	ug/l #	1
79) 2-Chlorotoluene	12.758	91	180	1.795	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.818	105	235	1.908	ug/l	68
81) trans-1,4-Dichloro-2-b...	12.410	75	951	108.023	ug/l #	21
82) 4-Chlorotoluene	13.093	91	570	5.536	ug/l	74
84) 1,2,4-Trimethylbenzene	13.129	105	652	5.349	ug/l	90
85) sec-Butylbenzene	13.129	105	652	4.030	ug/l #	56
89) n-Butylbenzene	13.696	91	176	1.429	ug/l #	35
92) 1,2-Dibromo-3-Chloropr...	14.349	75	24	5.543	ug/l #	3
95) Naphthalene	15.245	128	36874	522.717	ug/l	99

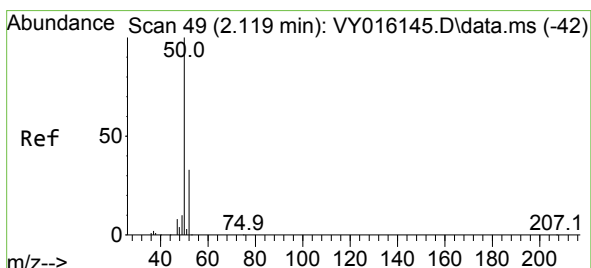
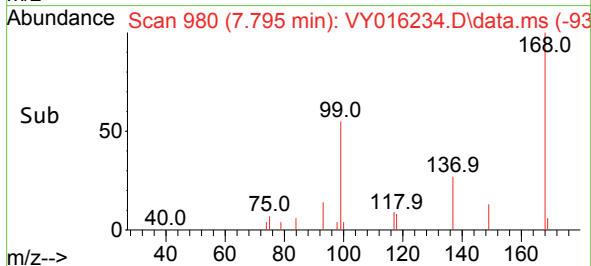
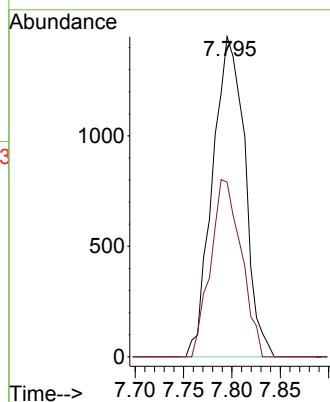
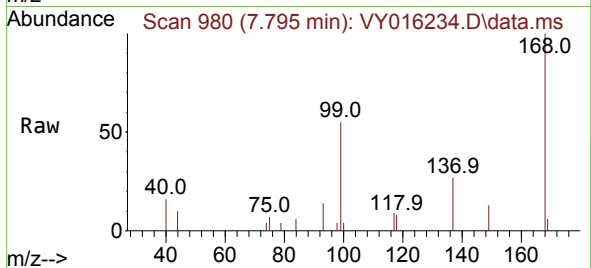
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 981
Delta R.T. -0.006 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

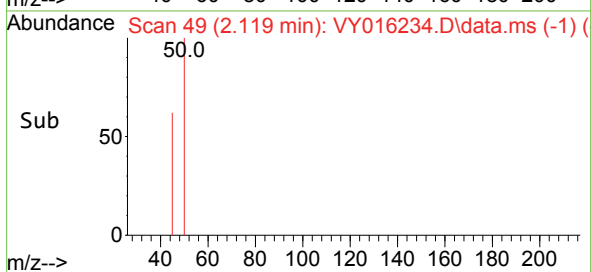
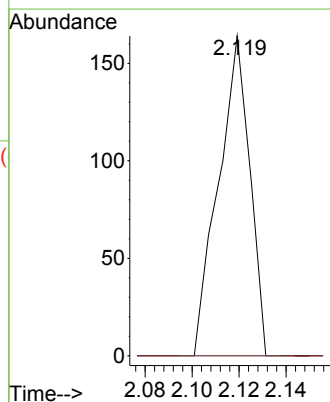
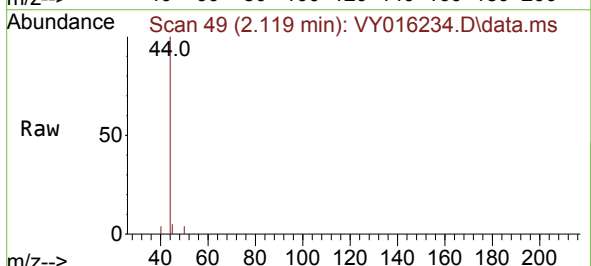
Instrument :
MSVOA_Y
ClientSampleId :

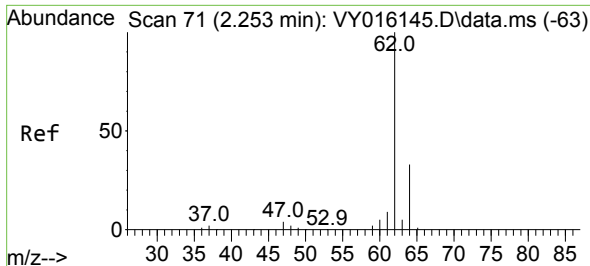
Tgt Ion:168 Resp: 3357
Ion Ratio Lower Upper
168 100
99 54.6 43.4 65.0



#3
Chloromethane
Concen: 5.093 ug/l
RT: 2.119 min Scan# 49
Delta R.T. -0.000 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Tgt Ion: 50 Resp: 151
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

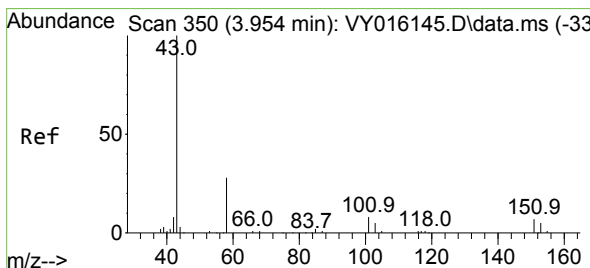
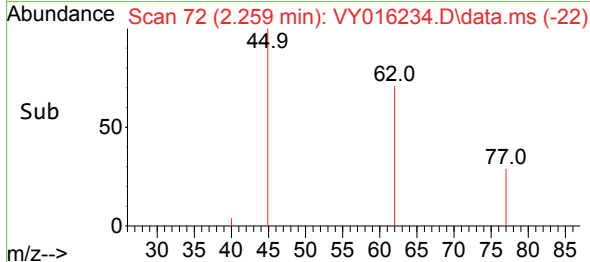
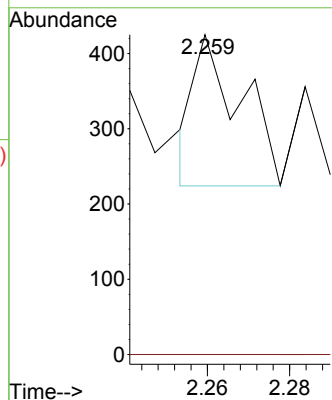
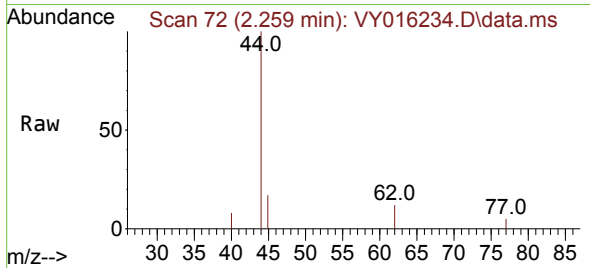




#4
 Vinyl Chloride
 Concen: 5.163 ug/l
 RT: 2.259 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VY016234.D
 Acq: 06 Nov 2023 14:09

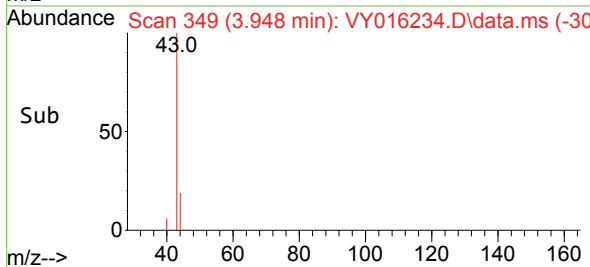
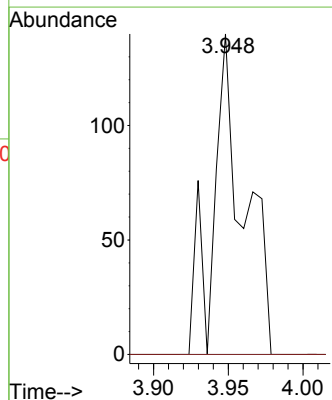
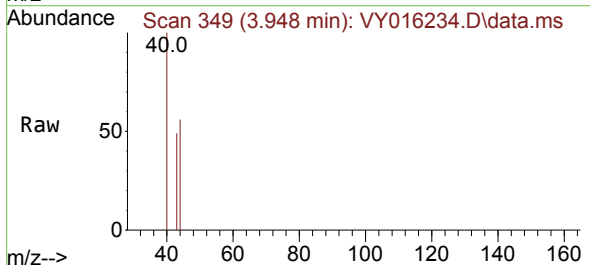
Instrument :
 MSVOA_Y
 ClientSampleId :

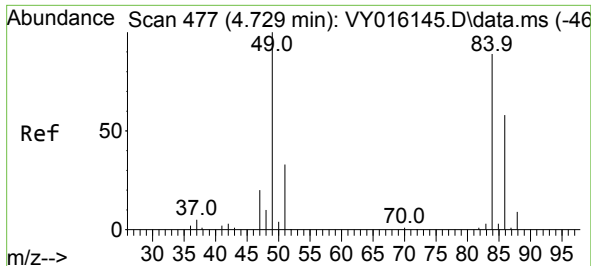
Tgt Ion: 62 Resp: 158
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.3 36.5#



#16
 Acetone
 Concen: 22.740 ug/l
 RT: 3.948 min Scan# 349
 Delta R.T. -0.006 min
 Lab File: VY016234.D
 Acq: 06 Nov 2023 14:09

Tgt Ion: 43 Resp: 201
 Ion Ratio Lower Upper
 43 100
 58 0.0 22.7 34.1#





#20

Methylene Chloride

Concen: 6.522 ug/l

RT: 4.728 min Scan# 41

Delta R.T. -0.001 min

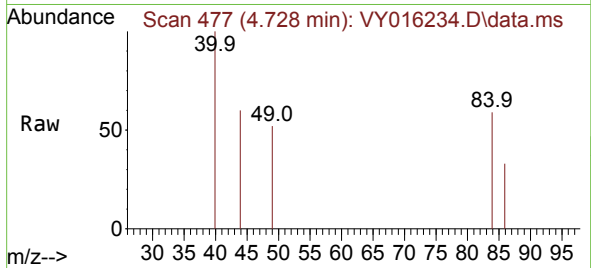
Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 84 Resp: 293

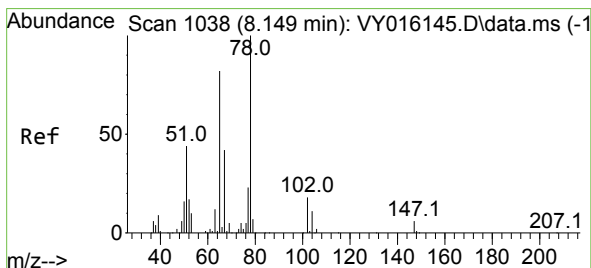
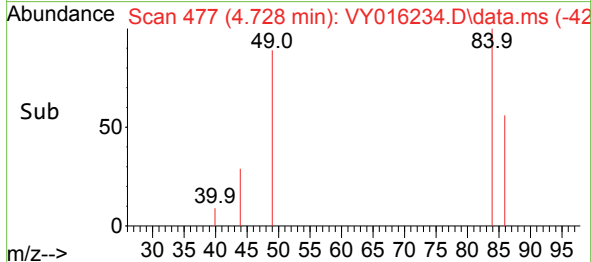
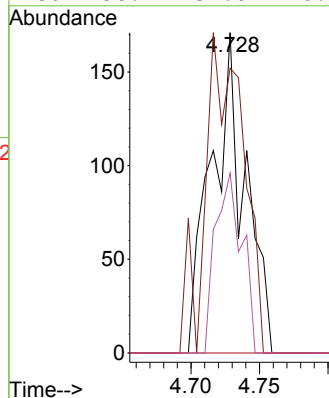
Ion Ratio Lower Upper

84 100

49 88.9 106.9 160.3#

51 0.0 33.2 49.8#

86 56.1 51.0 76.6



#33

1,2-Dichloroethane-d4

Concen: 55.901 ug/l

RT: 8.149 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VY016234.D

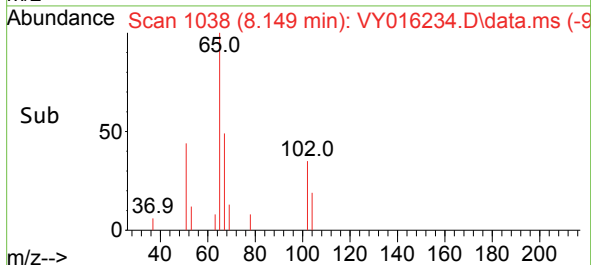
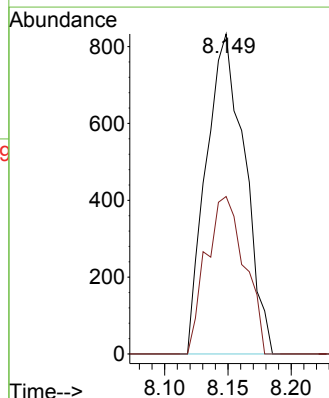
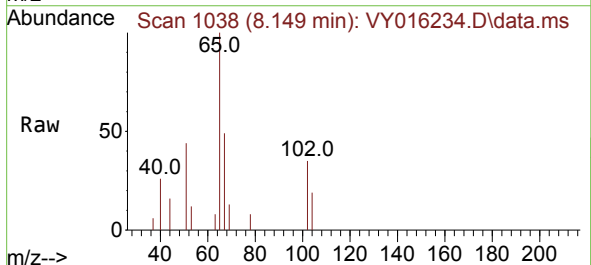
Acq: 06 Nov 2023 14:09

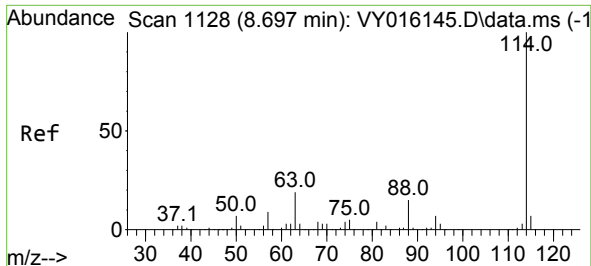
Tgt Ion: 65 Resp: 1756

Ion Ratio Lower Upper

65 100

67 49.5 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VY016234.D

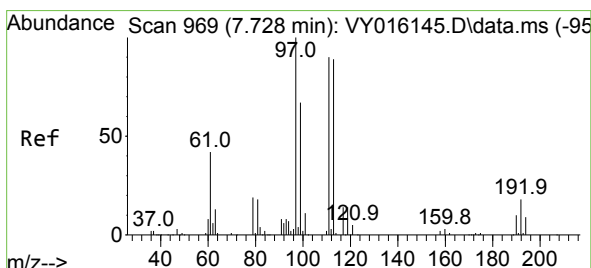
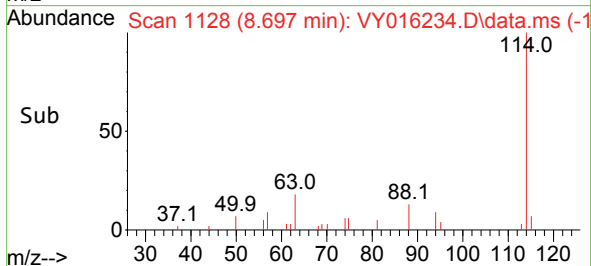
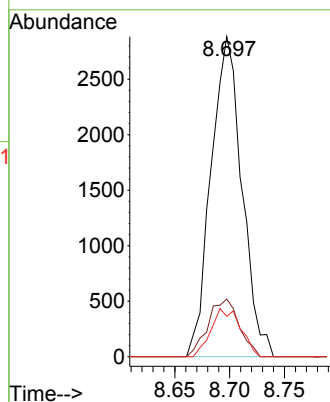
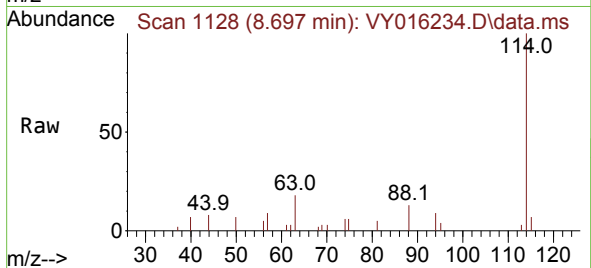
Acq: 06 Nov 2023 14:09

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:114	Resp:	5657
Ion Ratio	Lower	Upper
114	100	
63	18.0	0.0 42.4
88	12.6	0.0 30.6



#35

Dibromofluoromethane

Concen: 30.215 ug/l

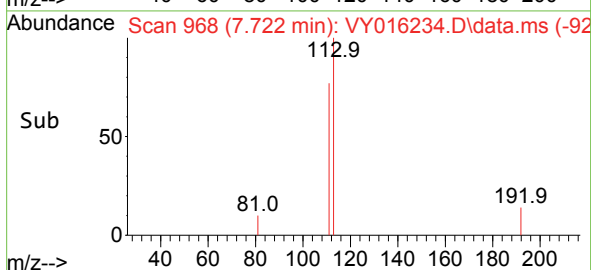
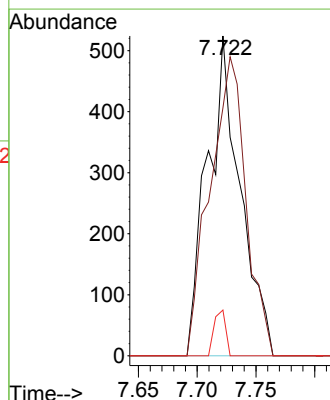
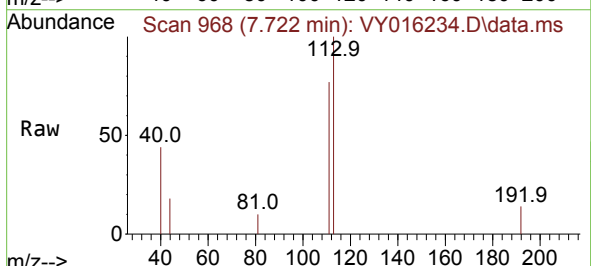
RT: 7.722 min Scan# 968

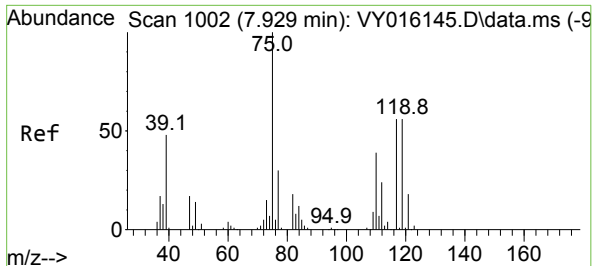
Delta R.T. -0.006 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

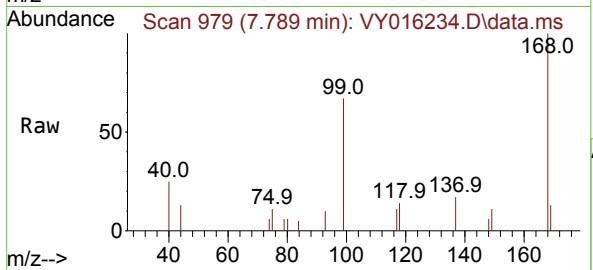
Tgt Ion:113	Resp:	1019
Ion Ratio	Lower	Upper
113	100	
111	102.2	81.3 121.9
192	5.0	16.9 25.3



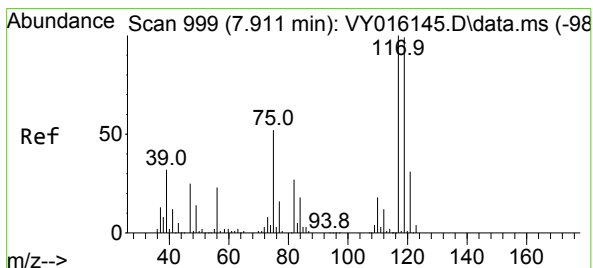
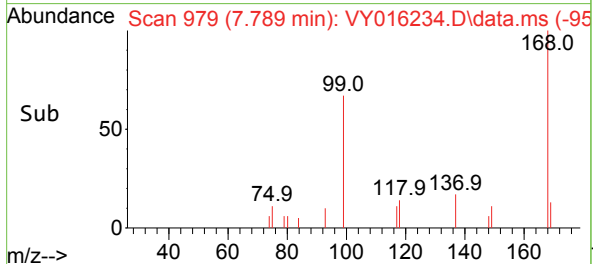
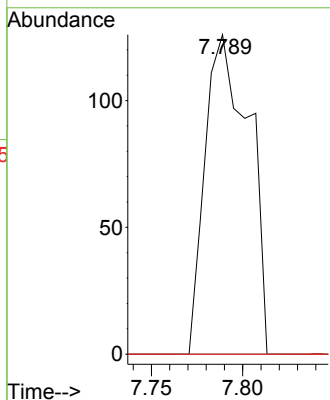


#36
 1,1-Dichloropropene
 Concen: 4.312 ug/l
 RT: 7.789 min Scan# 91
 Delta R.T. -0.140 min
 Lab File: VY016234.D
 Acq: 06 Nov 2023 14:09

Instrument :
 MSVOA_Y
 ClientSampleId :

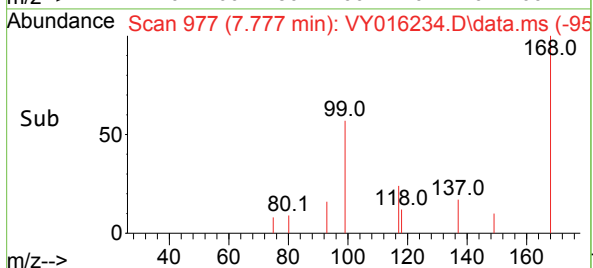
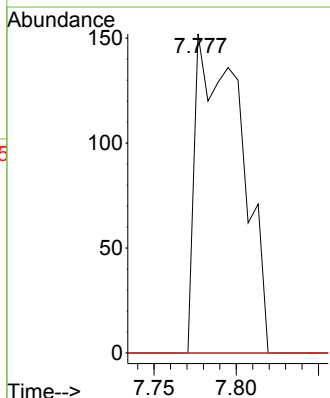
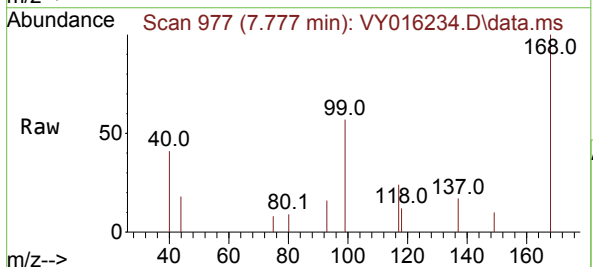


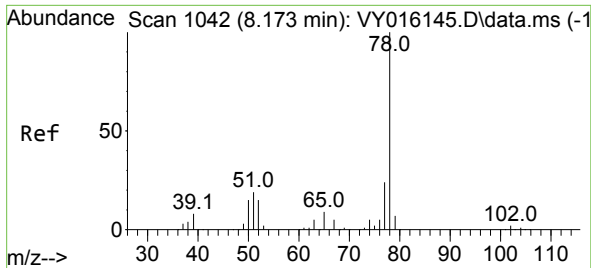
Tgt Ion: 75 Resp: 210
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.8 53.5#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 6.073 ug/l
 RT: 7.777 min Scan# 977
 Delta R.T. -0.134 min
 Lab File: VY016234.D
 Acq: 06 Nov 2023 14:09

Tgt Ion: 117 Resp: 293
 Ion Ratio Lower Upper
 117 100
 119 0.0 76.4 114.6#
 121 0.0 25.8 38.6#

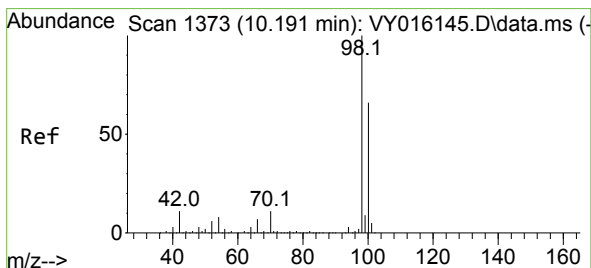
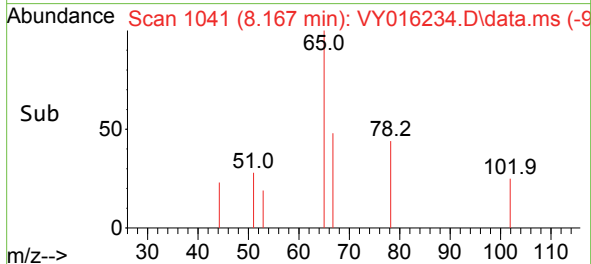
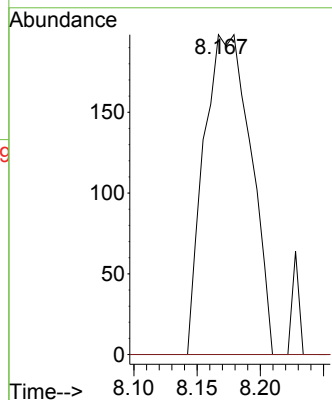
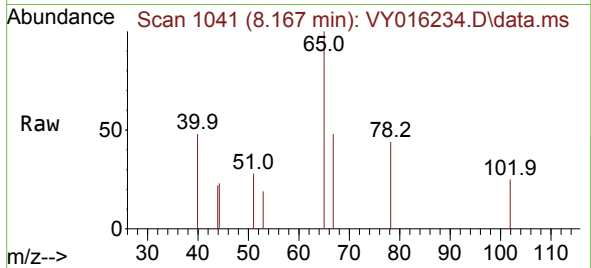




#40
Benzene
Concen: 3.655 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

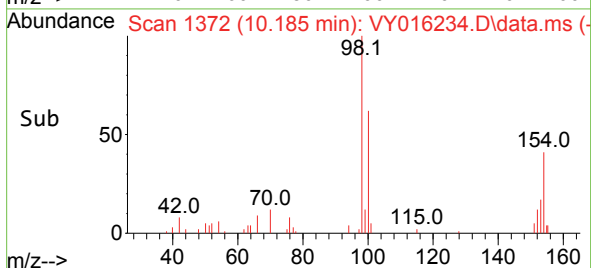
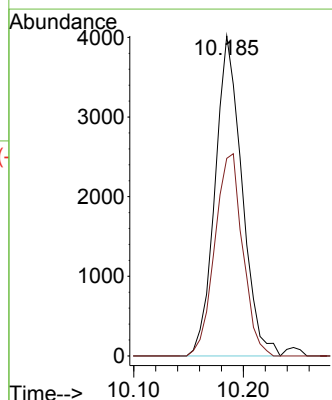
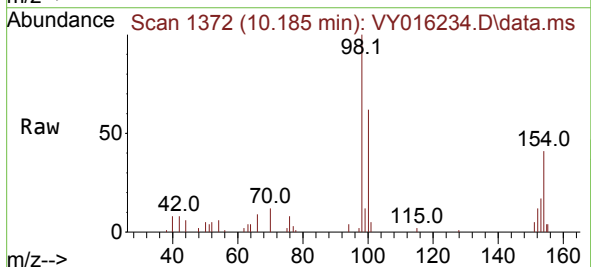
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ClientSampleId :

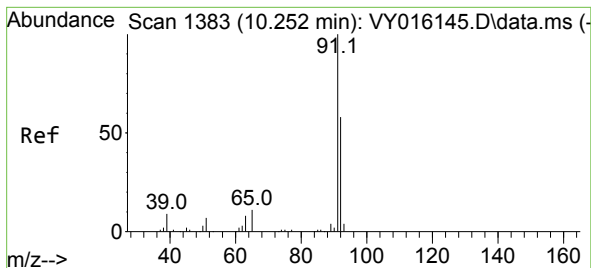
Tgt Ion: 78 Resp: 511
Ion Ratio Lower Upper
78 100
77 0.0 19.0 28.6#



#50
Toluene-d8
Concen: 51.124 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. -0.006 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Tgt Ion: 98 Resp: 6836
Ion Ratio Lower Upper
98 100
100 65.7 50.1 75.1





#52

Toluene

Concen: 6.877 ug/l

RT: 10.252 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

Instrument :

MSVOA_Y

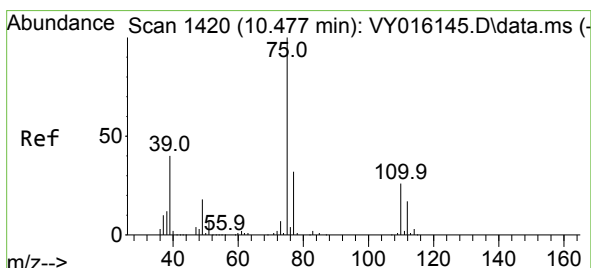
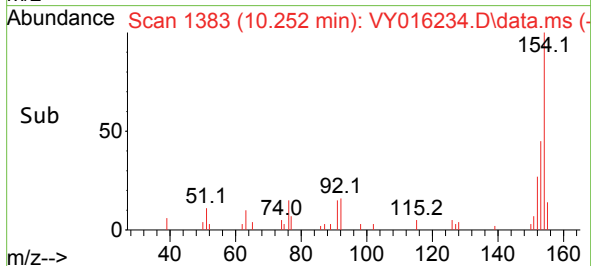
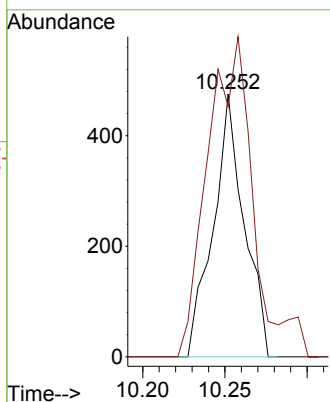
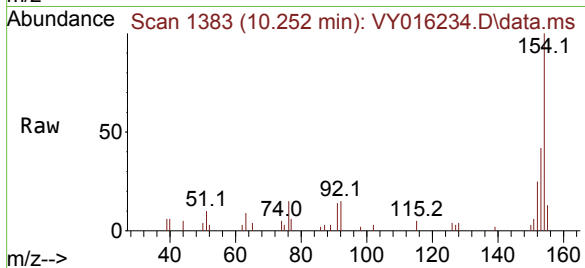
ClientSampleId :

Tgt Ion: 92 Resp: 623

Ion Ratio Lower Upper

92 100

91 178.3 143.8 215.6



#53

t-1,3-Dichloropropene

Concen: 3.389 ug/l

RT: 10.484 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VY016234.D

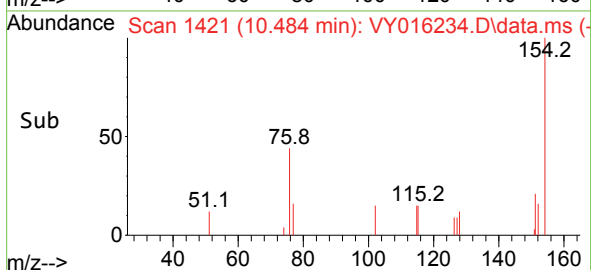
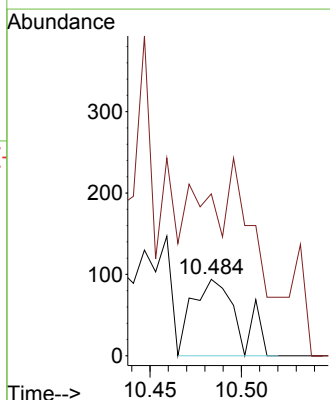
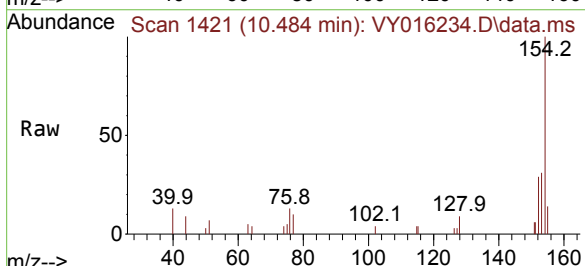
Acq: 06 Nov 2023 14:09

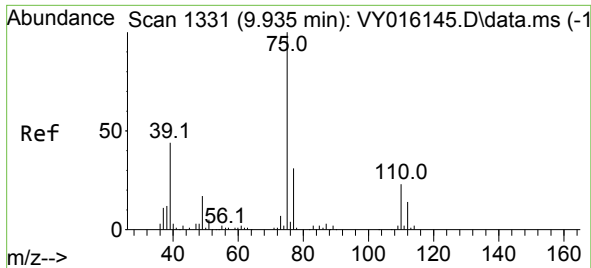
Tgt Ion: 75 Resp: 164

Ion Ratio Lower Upper

75 100

77 135.1 25.0 37.4#

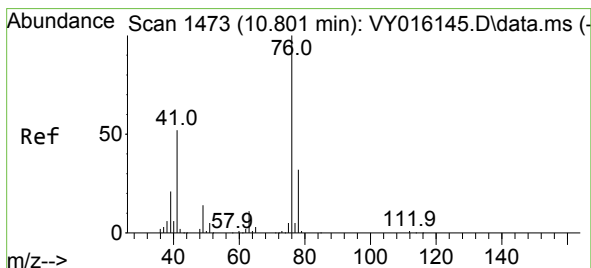
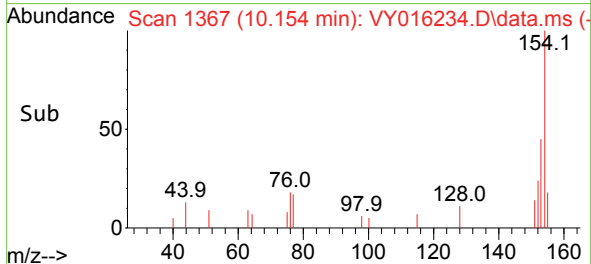
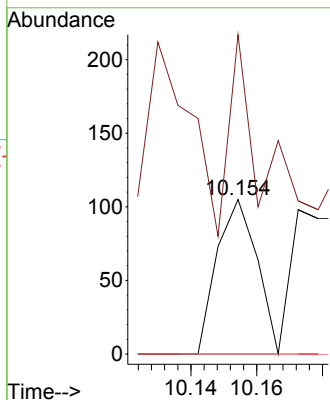
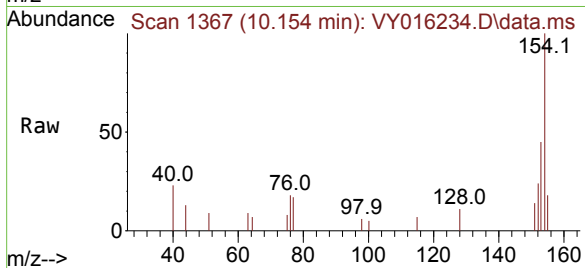




#54
 cis-1,3-Dichloropropene
 Concen: 1.567 ug/l
 RT: 10.154 min Scan# 11
 Delta R.T. 0.219 min
 Lab File: VY016234.D
 Acq: 06 Nov 2023 14:09

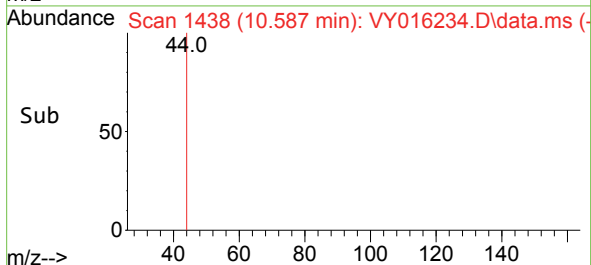
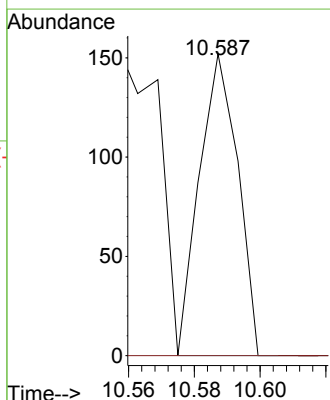
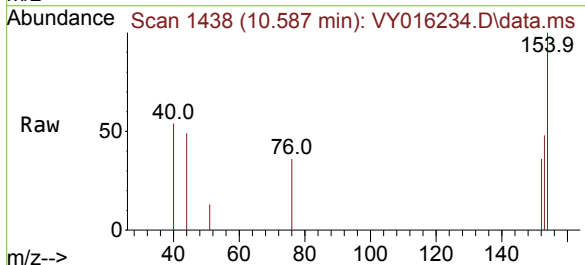
Instrument :
 MSVOA_Y
 ClientSampleId :

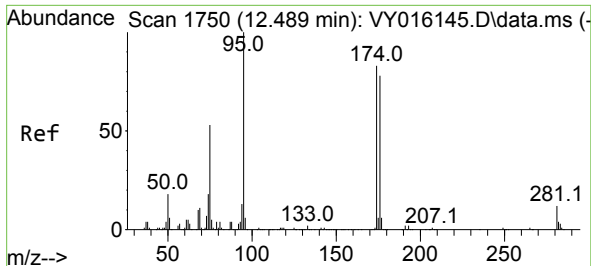
Tgt Ion: 75 Resp: 89
 Ion Ratio Lower Upper
 75 100
 77 68.6 24.2 36.4#
 39 0.0 42.2 63.4#



#57
 1,3-Dichloropropane
 Concen: 2.692 ug/l
 RT: 10.587 min Scan# 1438
 Delta R.T. -0.213 min
 Lab File: VY016234.D
 Acq: 06 Nov 2023 14:09

Tgt Ion: 76 Resp: 123
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

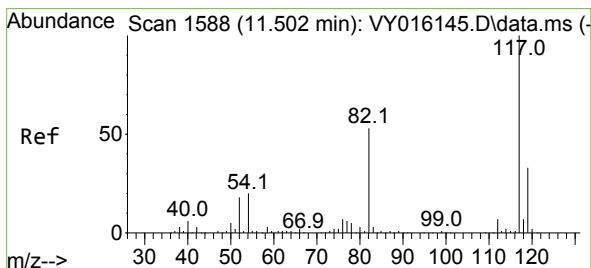
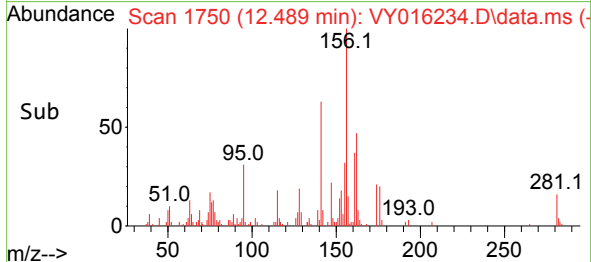
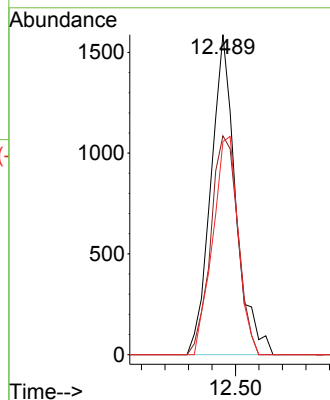
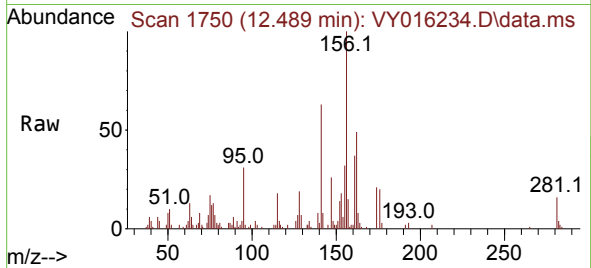




#62
4-Bromofluorobenzene
Concen: 50.849 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

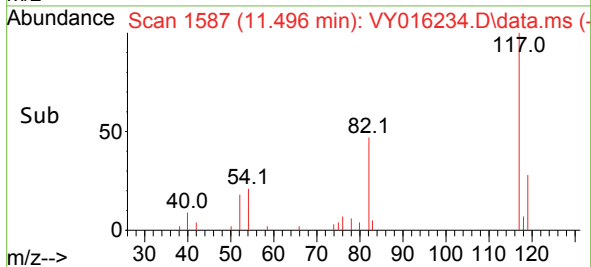
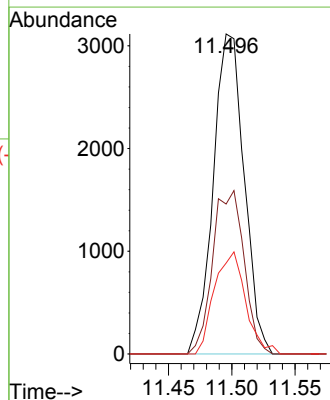
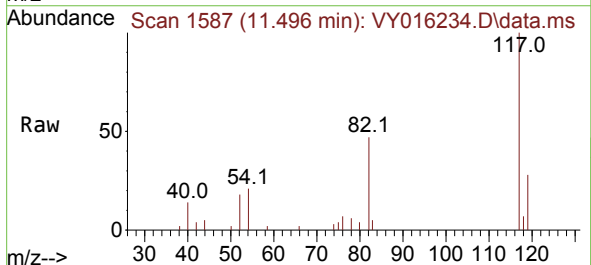
Instrument :
MSVOA_Y
ClientSampleId :

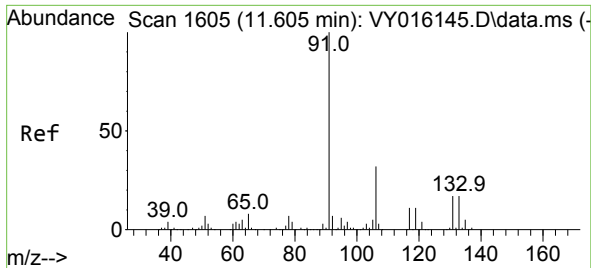
Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.7	0.0	178.2
176	70.2	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. -0.006 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	46.9	43.4	65.0
119	28.4	26.3	39.5

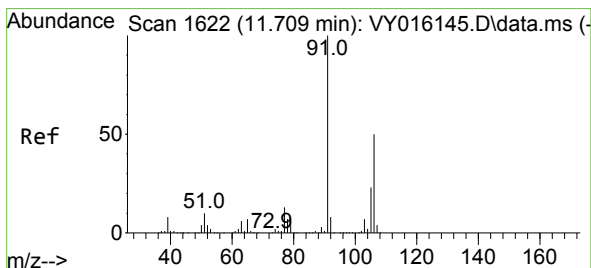
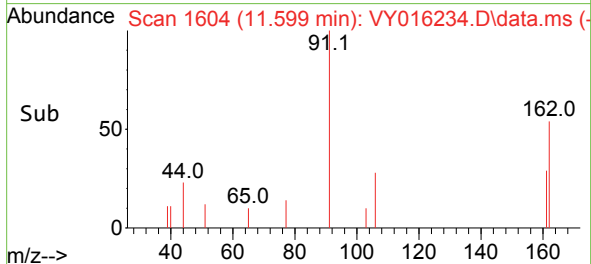
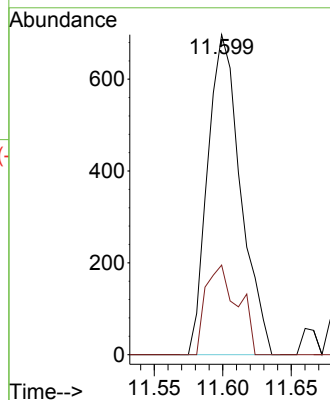
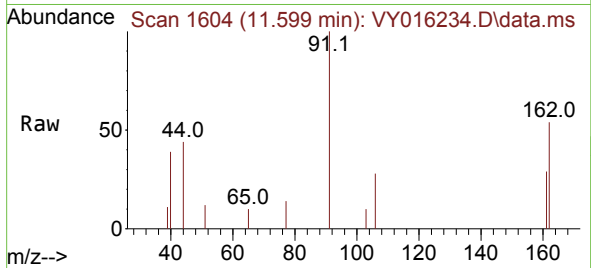




#67
Ethyl Benzene
Concen: 6.210 ug/l
RT: 11.599 min Scan# 1604
Delta R.T. -0.006 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

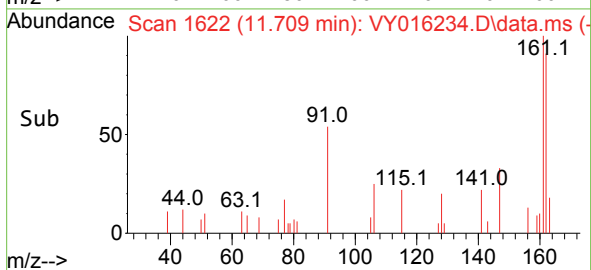
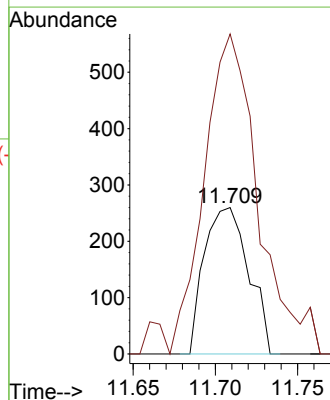
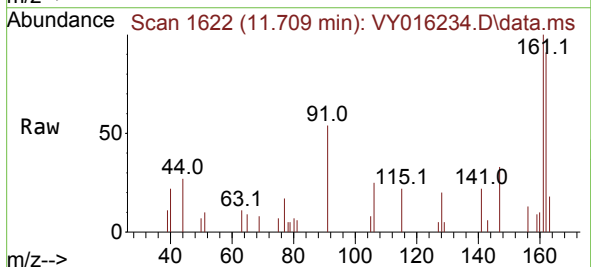
Instrument :
MSVOA_Y
ClientSampleId :

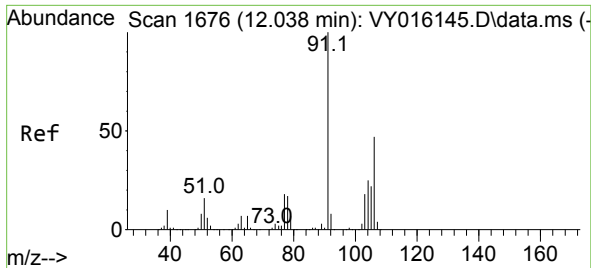
Tgt Ion: 91 Resp: 1169
Ion Ratio Lower Upper
91 100
106 28.0 24.6 36.8



#68
m/p-Xylenes
Concen: 6.709 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. -0.000 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Tgt Ion: 106 Resp: 488
Ion Ratio Lower Upper
106 100
91 274.2 166.1 249.1#

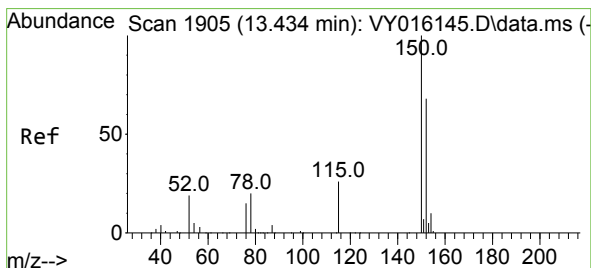
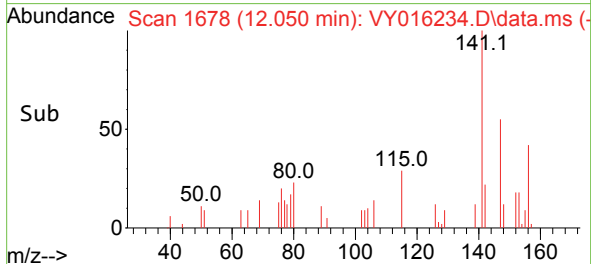
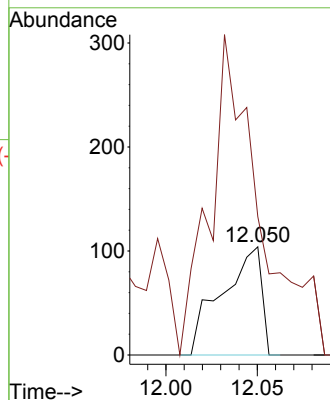
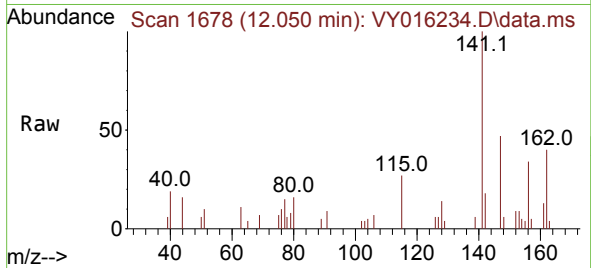




#69
o-Xylene
Concen: 2.275 ug/l
RT: 12.050 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

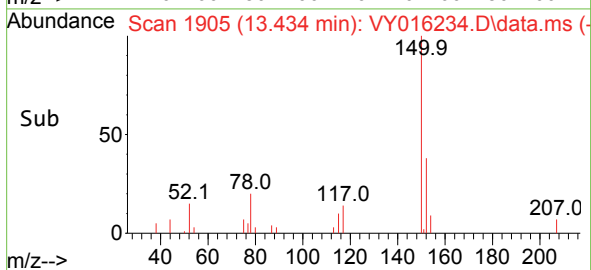
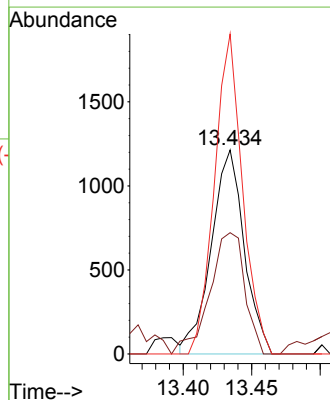
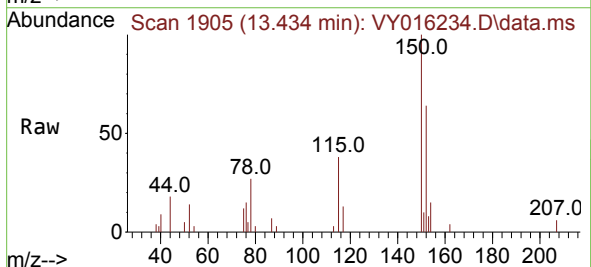
Instrument :
MSVOA_Y
ClientSampleId :

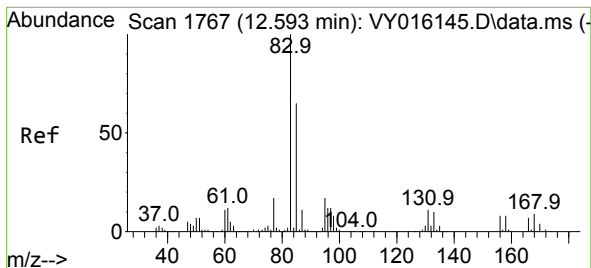
Tgt Ion:106 Resp: 158
Ion Ratio Lower Upper
106 100
91 372.2 108.1 324.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. -0.000 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Tgt Ion:152 Resp: 2027
Ion Ratio Lower Upper
152 100
115 63.3 28.8 86.5
150 133.8 0.0 348.8





#75

1,1,2,2-Tetrachloroethane

Concen: 2.480 ug/l

RT: 12.544 min Scan# 1759

Delta R.T. -0.049 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

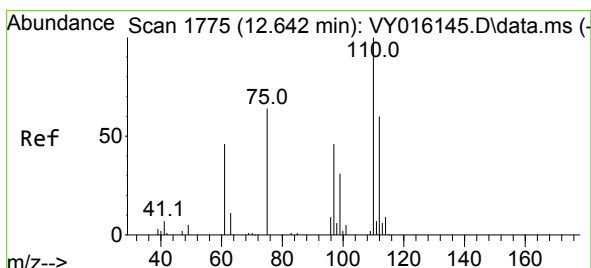
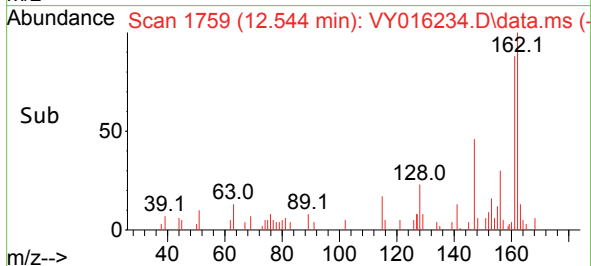
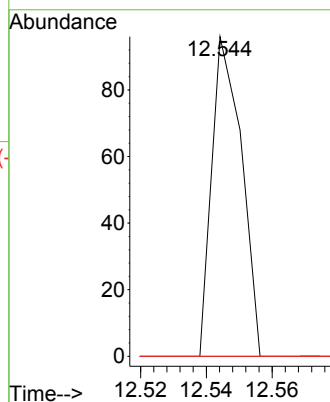
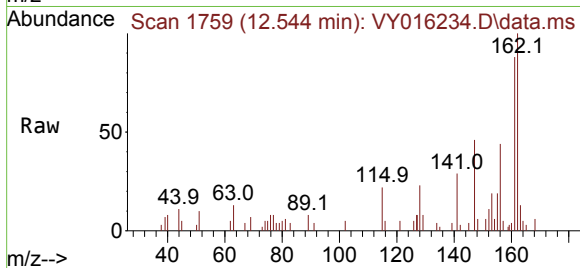
Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 83 Resp: 60

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.4	16.2#
85	0.0	31.8	95.4#



#76

1,2,3-Trichloropropane

Concen: 4.191 ug/l

RT: 12.581 min Scan# 1765

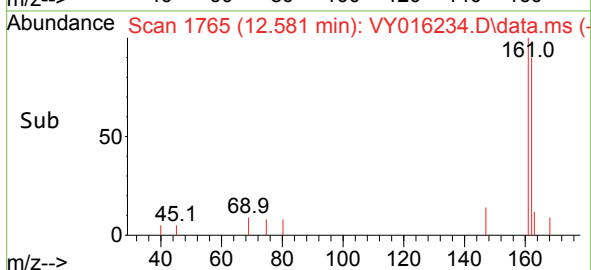
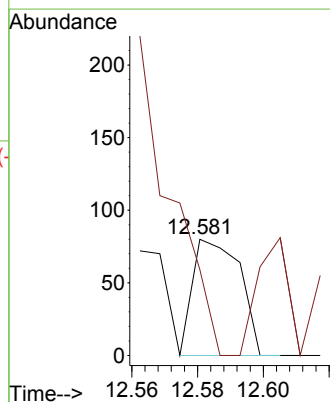
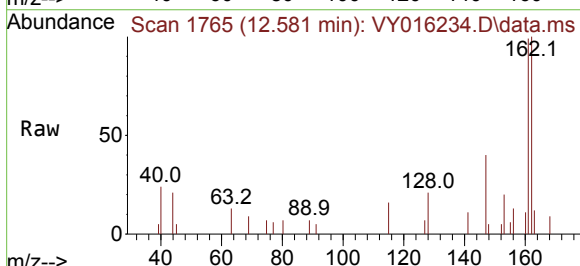
Delta R.T. -0.061 min

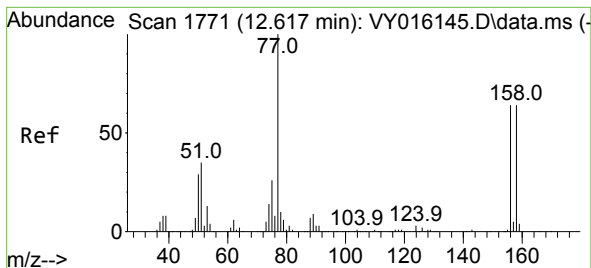
Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

Tgt Ion: 75 Resp: 80

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 957.558 ug/l

RT: 12.398 min Scan# 1771

Delta R.T. -0.220 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

Instrument :

MSVOA_Y

ClientSampleId :

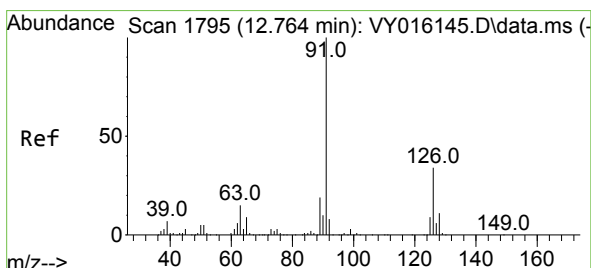
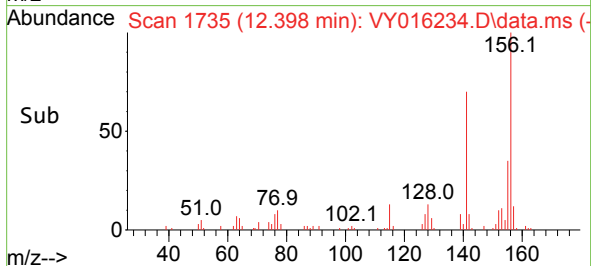
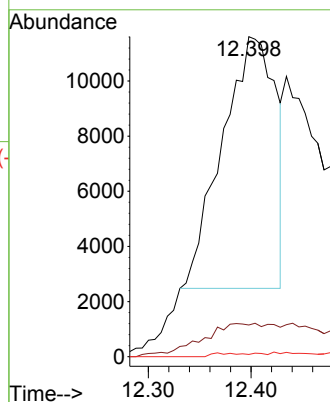
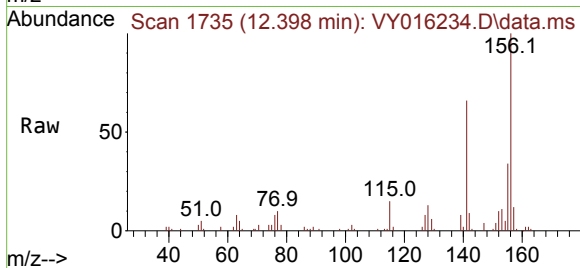
Tgt Ion:156 Resp: 32968

Ion Ratio Lower Upper

156 100

77 7.9 92.8 278.6#

158 0.0 48.4 145.3#



#79

2-Chlorotoluene

Concen: 1.795 ug/l

RT: 12.758 min Scan# 1794

Delta R.T. -0.006 min

Lab File: VY016234.D

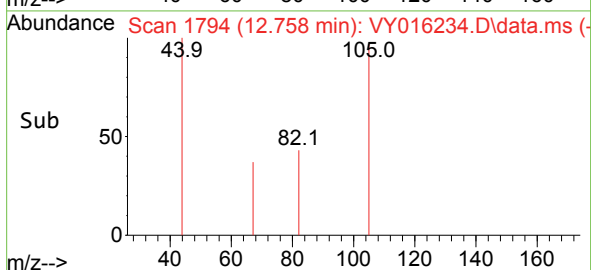
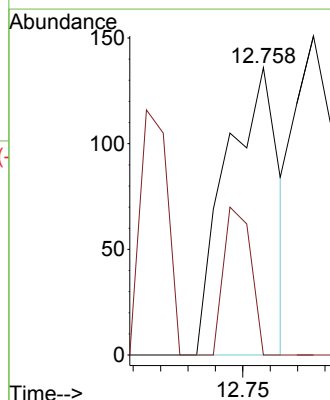
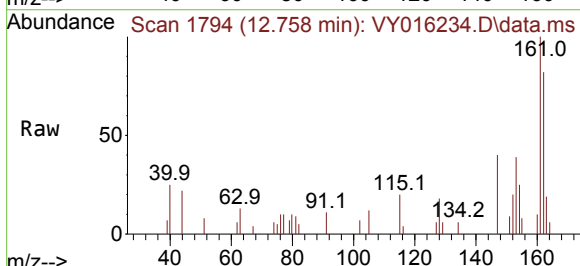
Acq: 06 Nov 2023 14:09

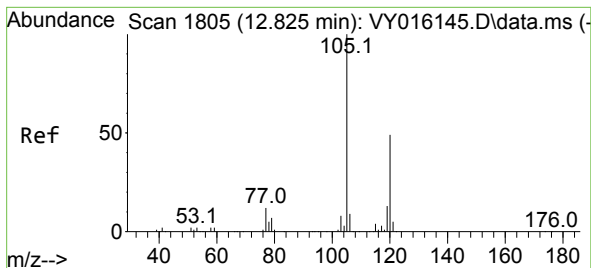
Tgt Ion: 91 Resp: 180

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#





#80

1,3,5-Trimethylbenzene

Concen: 1.908 ug/l

RT: 12.818 min Scan# 1805

Delta R.T. -0.006 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

Instrument :

MSVOA_Y

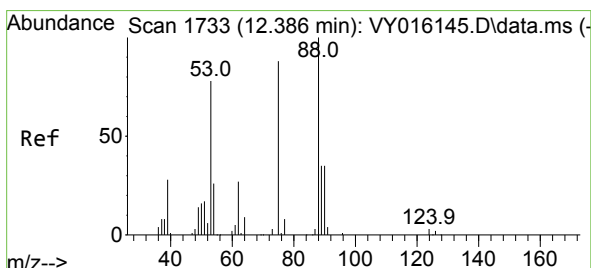
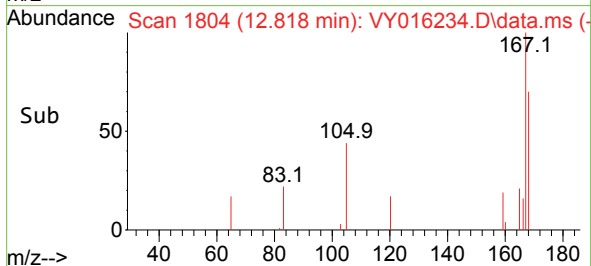
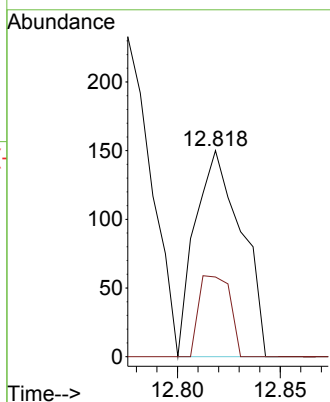
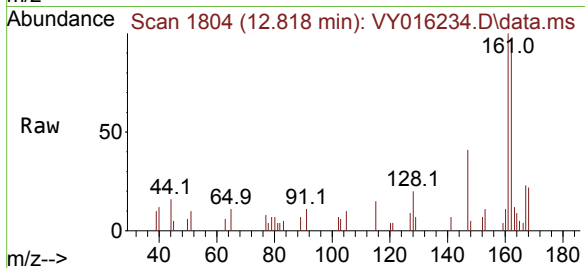
ClientSampleId :

Tgt Ion:105 Resp: 235

Ion Ratio Lower Upper

105 100

120 26.4 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 108.023 ug/l

RT: 12.410 min Scan# 1737

Delta R.T. 0.024 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

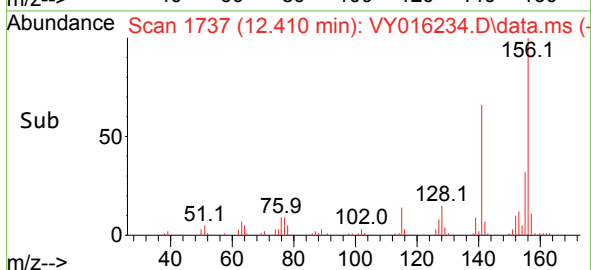
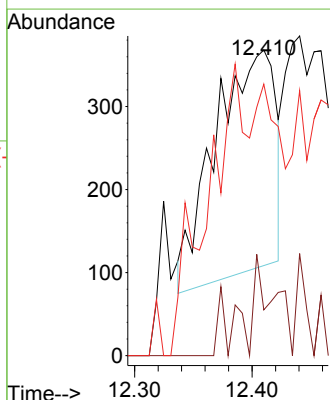
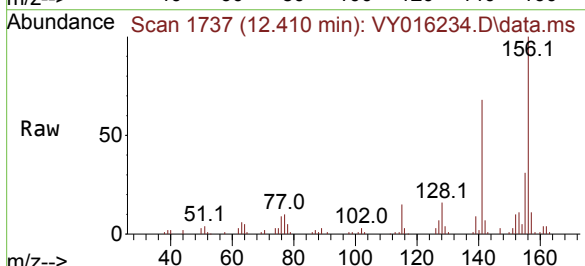
Tgt Ion: 75 Resp: 951

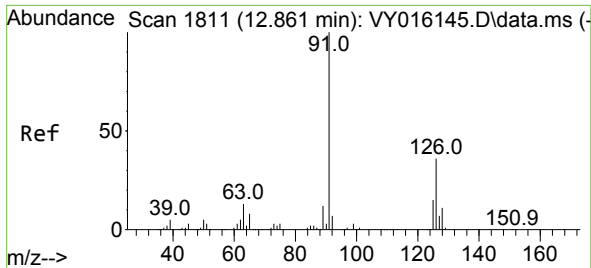
Ion Ratio Lower Upper

75 100

53 15.2 77.8 116.8#

89 0.0 37.4 56.0#

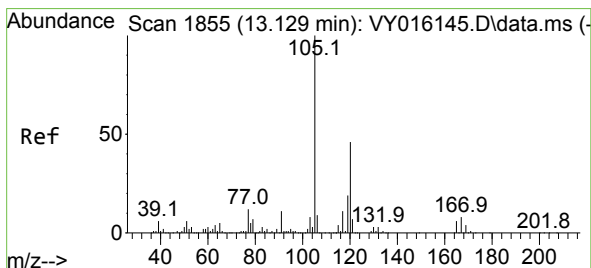
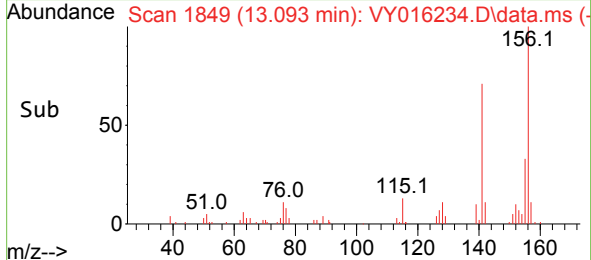
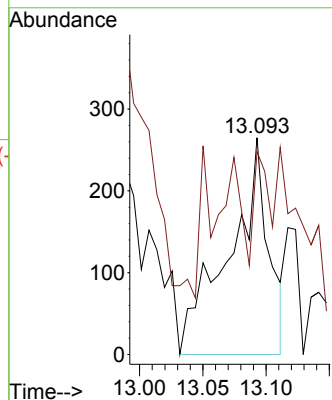
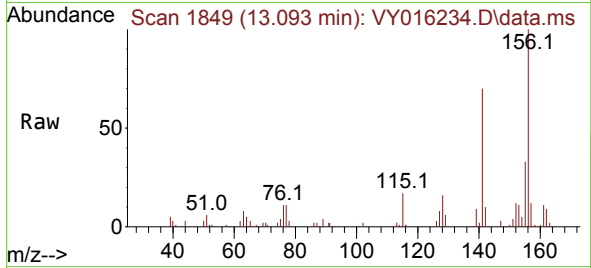




#82
4-Chlorotoluene
Concen: 5.536 ug/l
RT: 13.093 min Scan# 1849
Delta R.T. 0.232 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

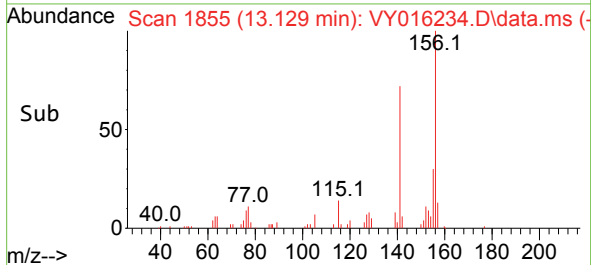
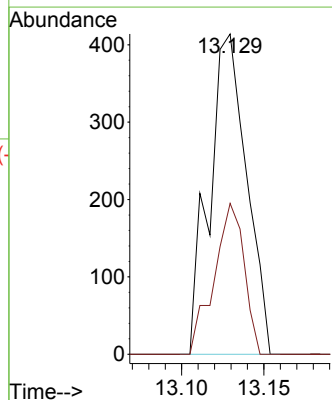
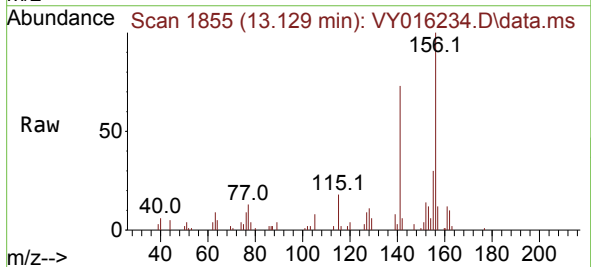
Instrument :
MSVOA_Y
ClientSampleId :

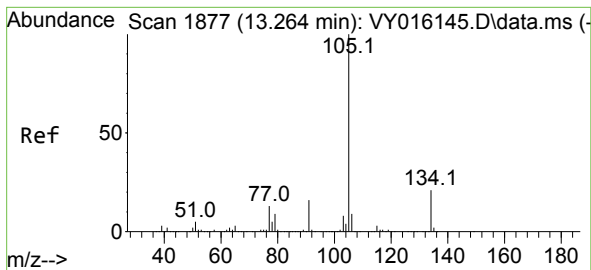
Tgt Ion: 91 Resp: 570
Ion Ratio Lower Upper
91 100
126 19.3 17.2 51.6



#84
1,2,4-Trimethylbenzene
Concen: 5.349 ug/l
RT: 13.129 min Scan# 1855
Delta R.T. -0.000 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Tgt Ion: 105 Resp: 652
Ion Ratio Lower Upper
105 100
120 38.0 22.2 66.6





#85

sec-Butylbenzene

Concen: 4.030 ug/l

RT: 13.129 min Scan# 11

Delta R.T. -0.134 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

Instrument :

MSVOA_Y

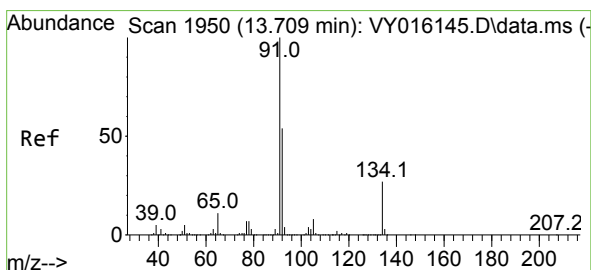
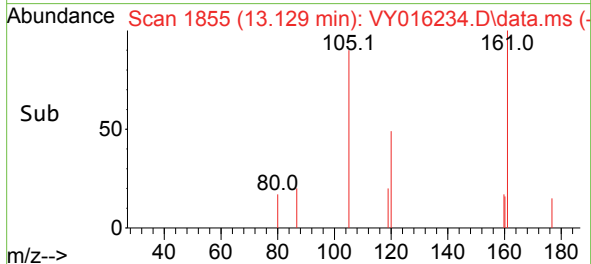
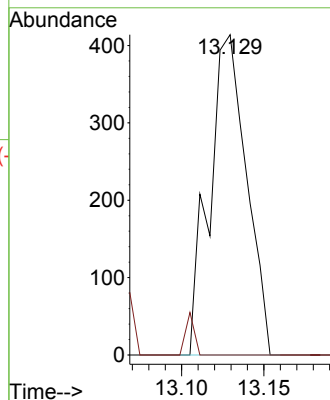
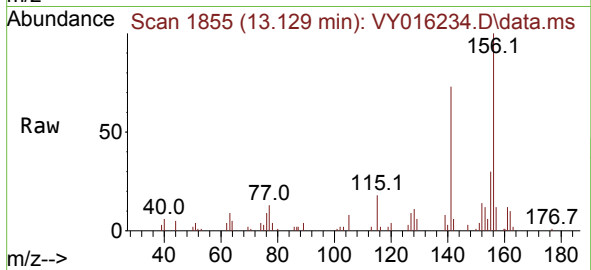
ClientSampleId :

Tgt Ion:105 Resp: 652

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#



#89

n-Butylbenzene

Concen: 1.429 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. -0.012 min

Lab File: VY016234.D

Acq: 06 Nov 2023 14:09

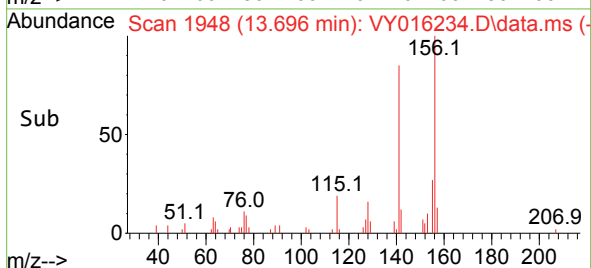
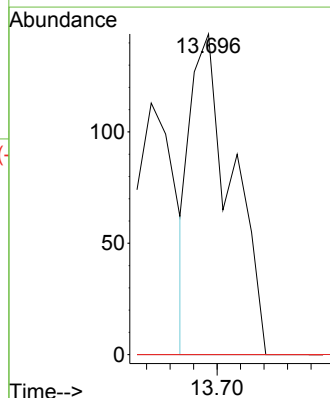
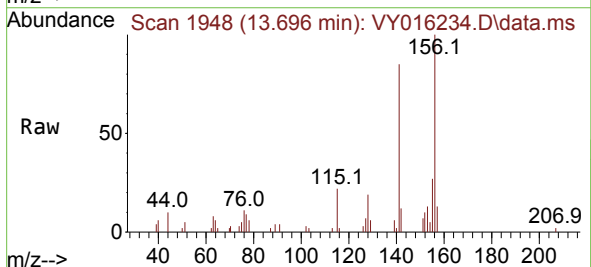
Tgt Ion: 91 Resp: 176

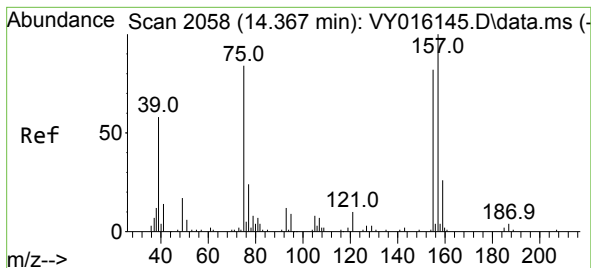
Ion Ratio Lower Upper

91 100

92 0.0 25.4 76.0#

134 0.0 12.6 37.6#

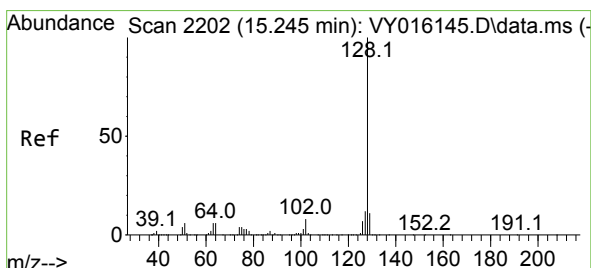
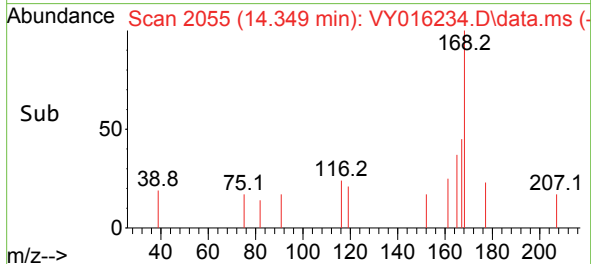
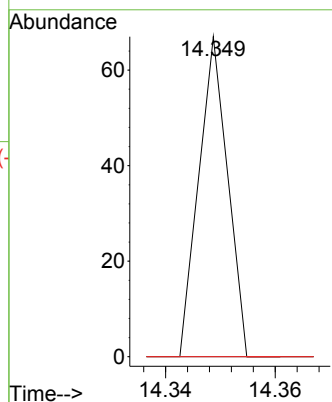
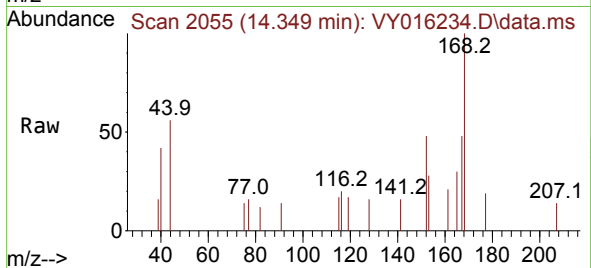




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.543 ug/l
RT: 14.349 min Scan# 2055
Delta R.T. -0.018 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 24
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 522.717 ug/l
RT: 15.245 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY016234.D
Acq: 06 Nov 2023 14:09

Tgt Ion:128 Resp: 36874
Ion Ratio Lower Upper
128 100
127 13.5 10.8 16.2
129 11.8 8.6 13.0

