

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110623\
 Data File : VY016236.D
 Acq On : 06 Nov 2023 14:56
 Operator : SY/MD
 Sample : 05253-02
 Misc : 6.18g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 06 23:57:43 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)

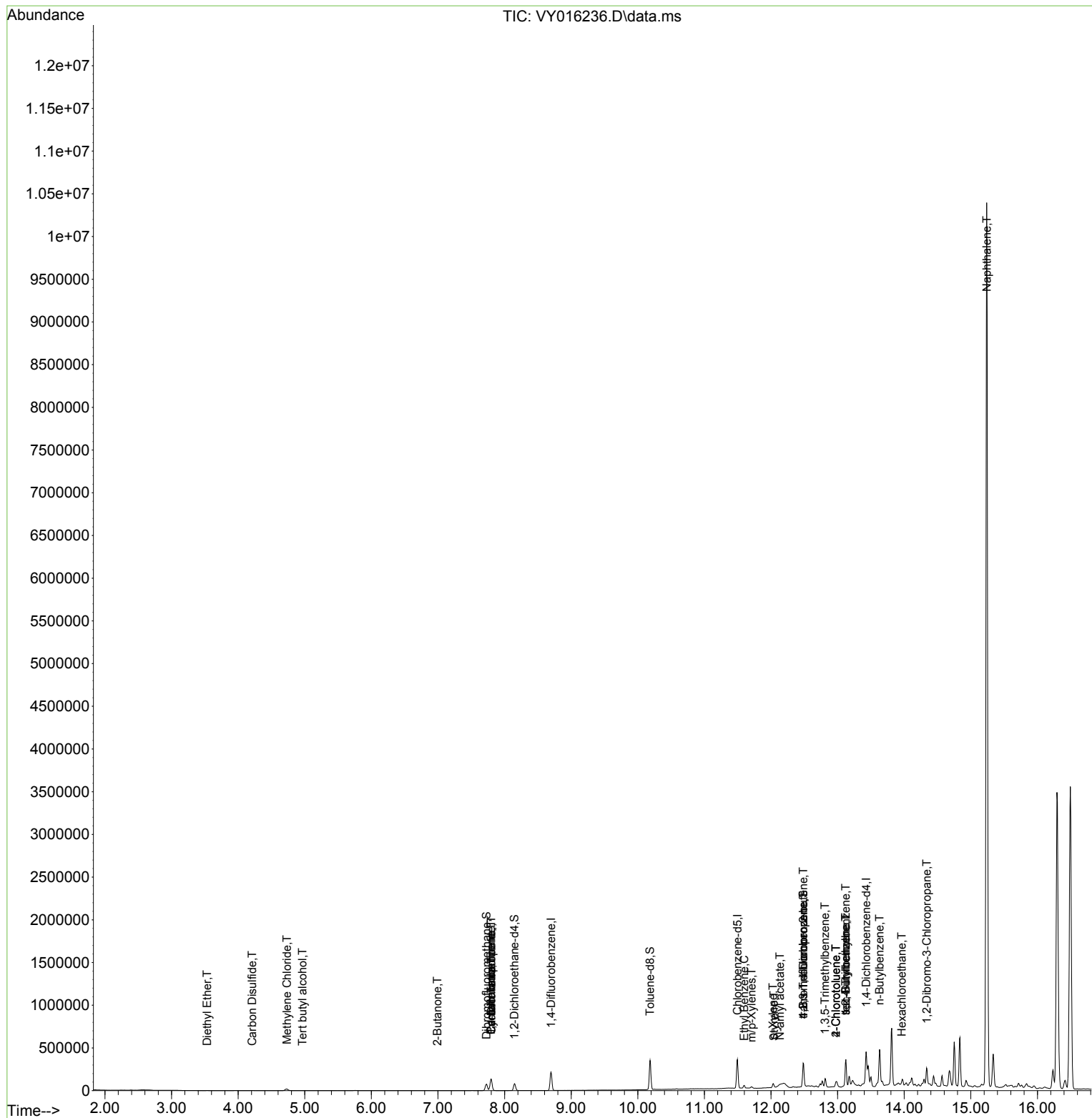
Internal Standards						
1) Pentafluorobenzene	7.795	168	108083	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	189415	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	185138	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	92008	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	61546	60.854	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	121.700%	
35) Dibromofluoromethane	7.728	113	53865	47.700	ug/l	0.00
Spiked Amount 50.000	Range 54	- 147	Recovery	=	95.400%	
50) Toluene-d8	10.185	98	225939	50.464	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	100.920%	
62) 4-Bromofluorobenzene	12.483	95	84777	55.375	ug/l	0.00
Spiked Amount 50.000	Range 30	- 143	Recovery	=	110.740%	
Target Compounds						Qvalue
8) Diethyl Ether	3.534	74	503	1.020	ug/l	92
11) Tert butyl alcohol	4.966	59	183	2.422	ug/l #	89
13) Acrolein	3.729	56	82	Below Cal	#	58
16) Acetone	3.960	43	2839	Below Cal	#	81
17) Carbon Disulfide	4.210	76	2309	1.081	ug/l	99
20) Methylene Chloride	4.735	84	15324	12.620	ug/l	85
25) 2-Butanone	6.990	43	584	2.093	ug/l #	49
31) Cyclohexane	7.801	56	2104	1.353	ug/l #	1
36) 1,1-Dichloropropene	7.801	75	7753	4.755	ug/l #	52
38) Carbon Tetrachloride	7.801	117	10799	6.685	ug/l #	17
67) Ethyl Benzene	11.599	91	22219	3.377	ug/l	100
68) m/p-Xylenes	11.709	106	4608	1.813	ug/l	91
69) o-Xylene	12.032	106	12620	5.199	ug/l	93
70) Styrene	12.044	104	4322	1.071	ug/l #	50
74) N-amyl acetate	12.136	43	2802	1.868	ug/l #	69
76) 1,2,3-Trichloropropane	12.483	75	43407	50.098	ug/l #	100
79) 2-Chlorotoluene	12.977	91	6397	1.406	ug/l	79
80) 1,3,5-Trimethylbenzene	12.813	105	48549	8.683	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.483	75	43407	108.623	ug/l #	11
82) 4-Chlorotoluene	12.977	91	6397	1.369	ug/l	89
83) tert-Butylbenzene	13.123	119	20917	4.181	ug/l #	60
84) 1,2,4-Trimethylbenzene	13.123	105	167347	30.246	ug/l	97
85) sec-Butylbenzene	13.123	105	167347	22.789	ug/l #	56
89) n-Butylbenzene	13.629	91	46938	8.394	ug/l #	45
90) Hexachloroethane	13.965	117	9909	9.448	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.337	75	1707	8.685	ug/l #	3
95) Naphthalene	15.239	128	8259146	2579.346	ug/l	99

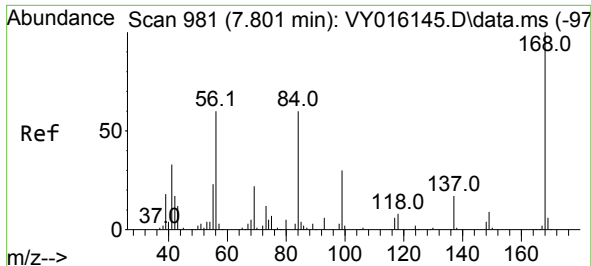
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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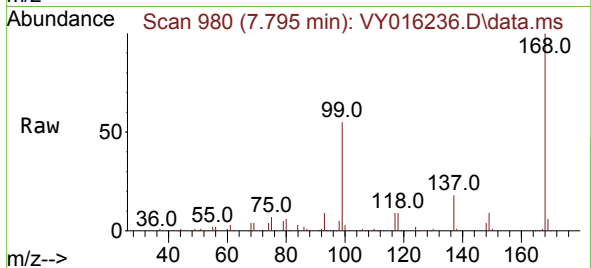
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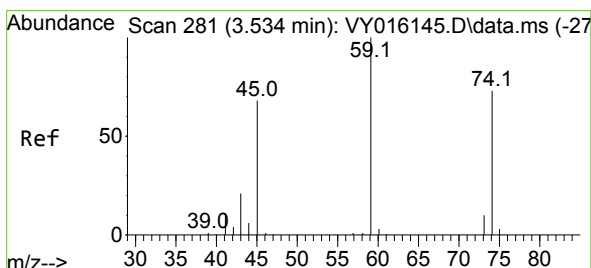
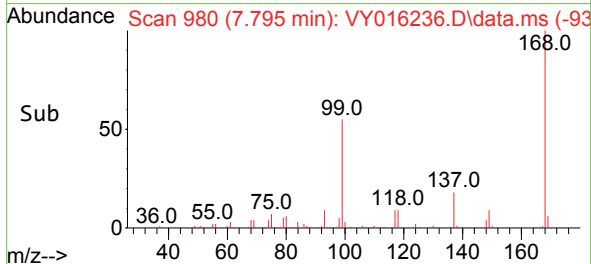
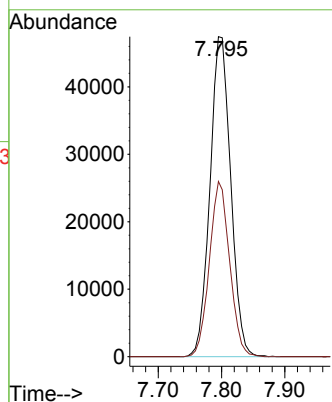


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 981
Delta R.T. -0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Instrument :
MSVOA_Y
ClientSampleId :

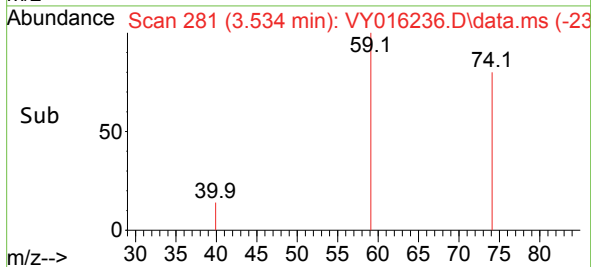
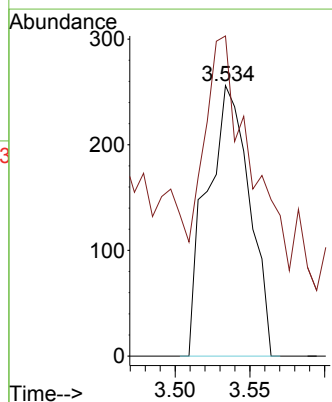
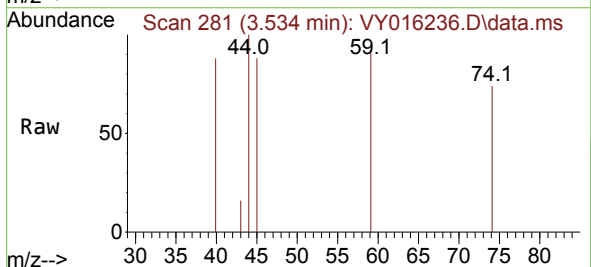


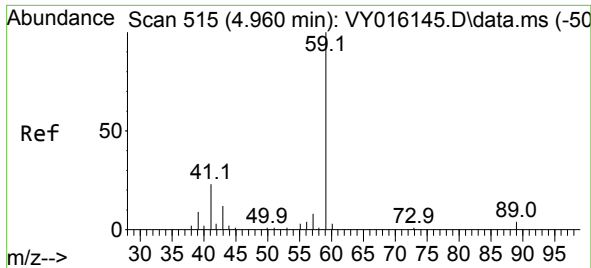
Tgt Ion:168 Resp: 108083
Ion Ratio Lower Upper
168 100
99 54.7 43.4 65.0



#8
Diethyl Ether
Concen: 1.020 ug/l
RT: 3.534 min Scan# 281
Delta R.T. 0.000 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

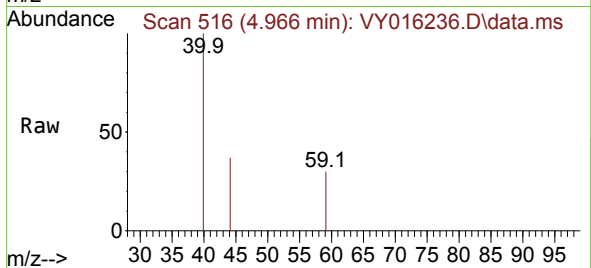
Tgt Ion: 74 Resp: 503
Ion Ratio Lower Upper
74 100
45 111.3 51.5 154.5



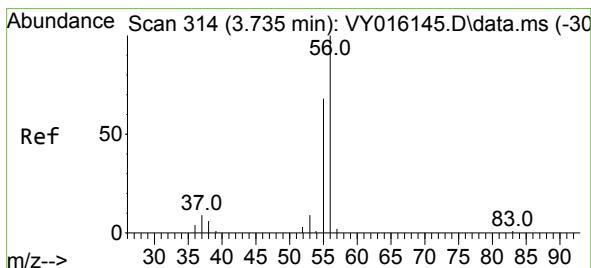
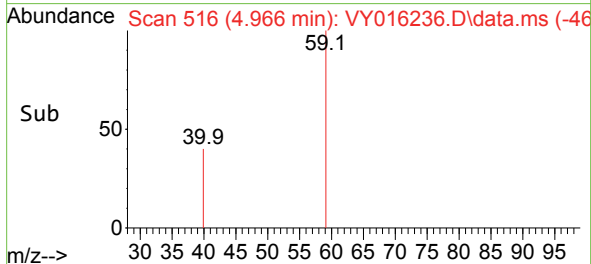
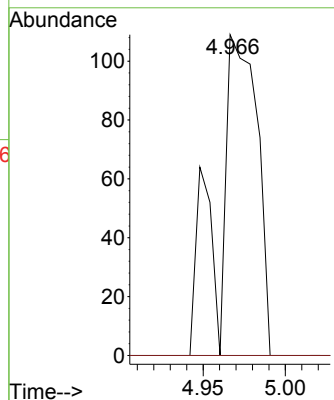


#11
Tert butyl alcohol
Concen: 2.422 ug/l
RT: 4.966 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Instrument :
MSVOA_Y
ClientSampleId :

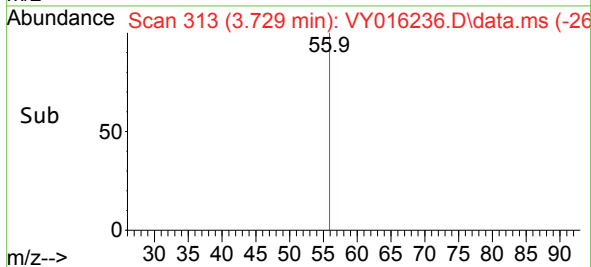
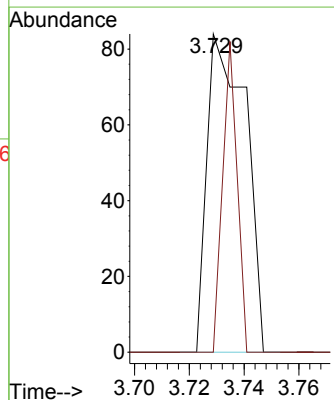
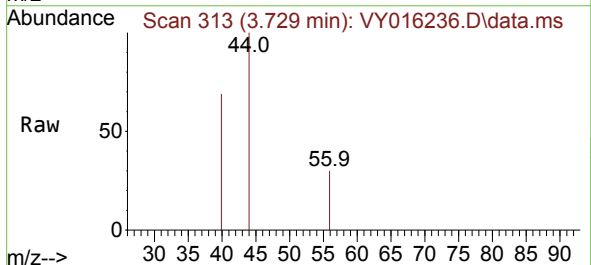


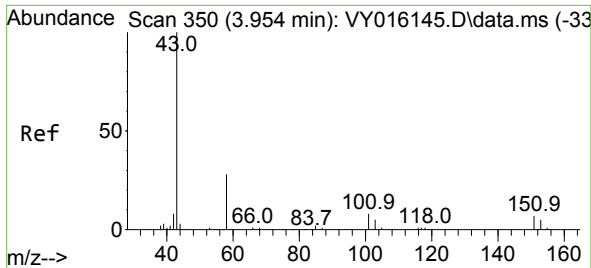
Tgt Ion: 59 Resp: 183
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#13
Acrolein
Concen: Below Cal
RT: 3.729 min Scan# 313
Delta R.T. -0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 36.6 57.0 85.4#

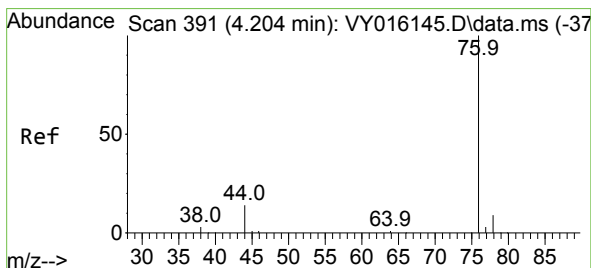
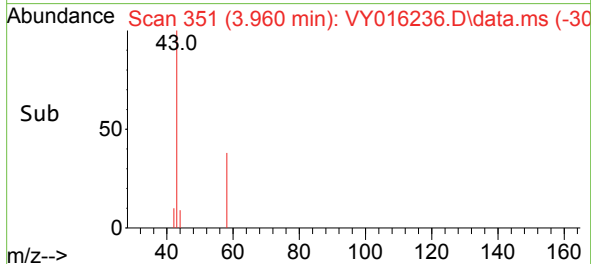
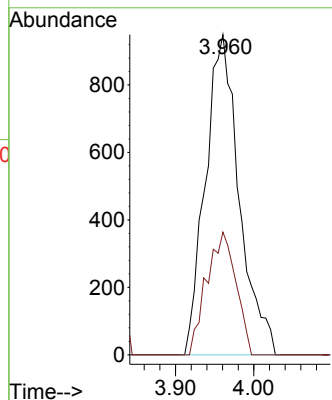
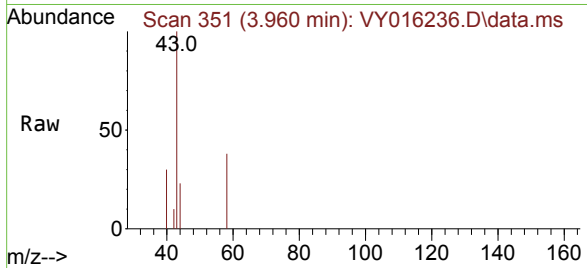




#16
Acetone
Concen: Below Cal
RT: 3.960 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

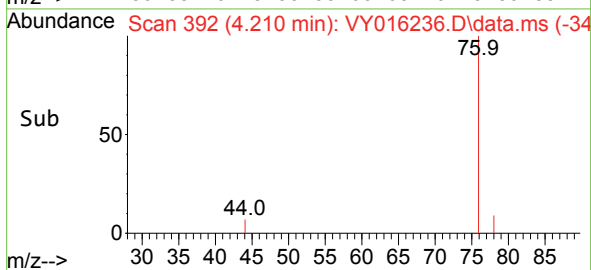
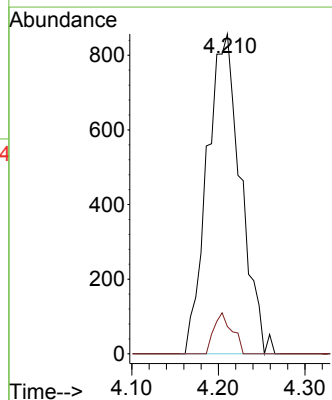
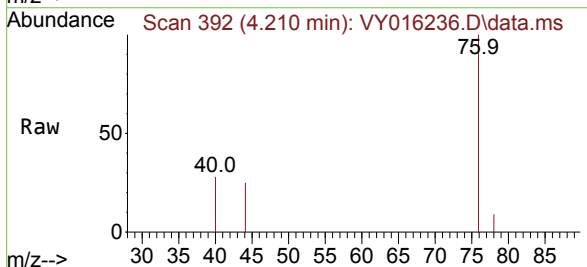
Instrument :
MSVOA_Y
ClientSampleId :

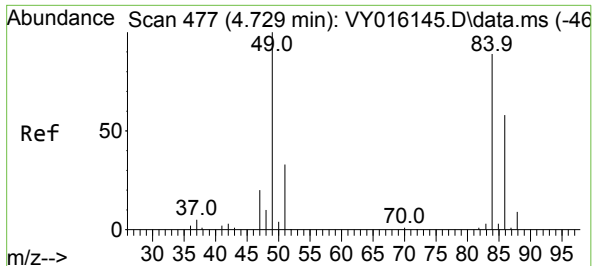
Tgt Ion: 43 Resp: 2839
Ion Ratio Lower Upper
43 100
58 38.4 22.7 34.1#



#17
Carbon Disulfide
Concen: 1.081 ug/l
RT: 4.210 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

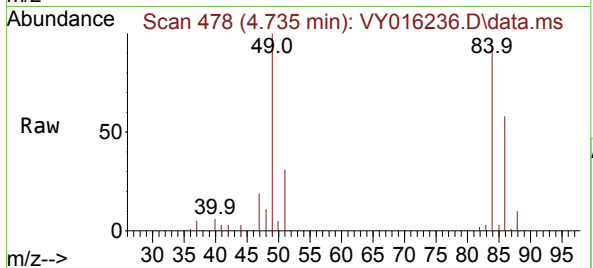
Tgt Ion: 76 Resp: 2309
Ion Ratio Lower Upper
76 100
78 8.5 7.0 10.4



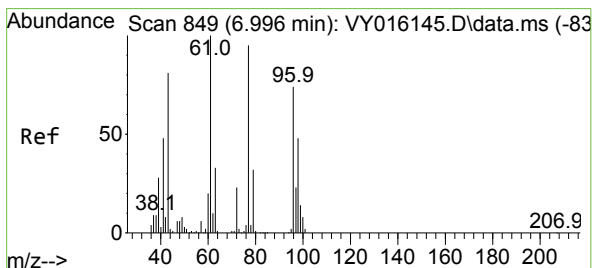
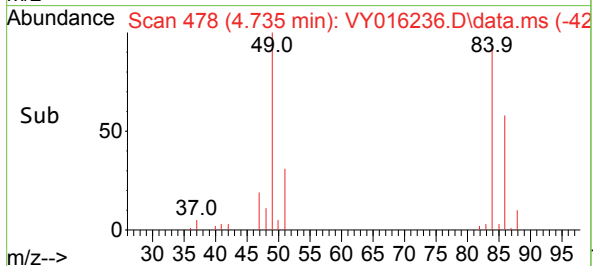
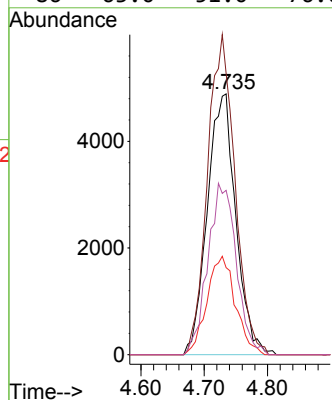


#20
Methylene Chloride
Concen: 12.620 ug/l
RT: 4.735 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Instrument :
MSVOA_Y
ClientSampleId :

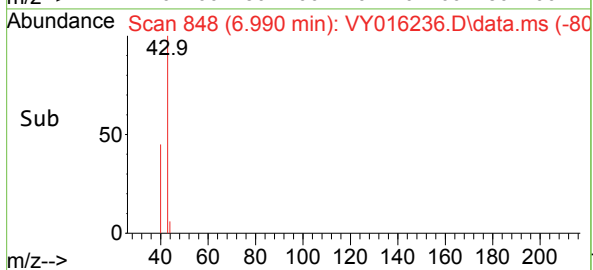
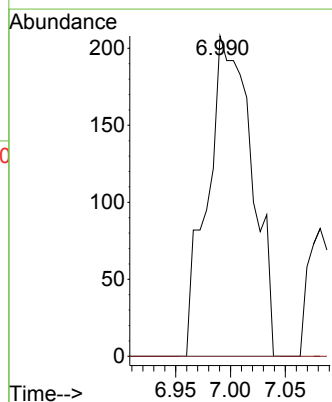
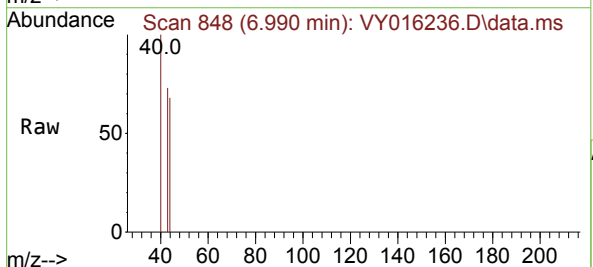


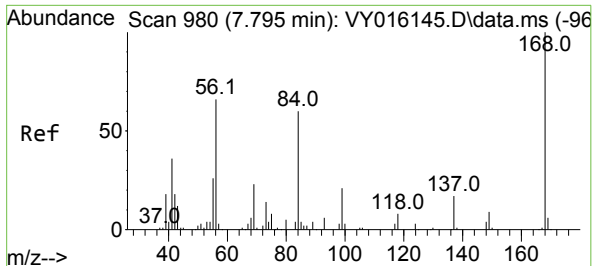
Tgt Ion: 84	Resp: 15324		
Ion	Ratio	Lower	Upper
84	100		
49	107.8	106.9	160.3
51	33.4	33.2	49.8
86	63.0	51.0	76.6



#25
2-Butanone
Concen: 2.093 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Tgt Ion: 43	Resp: 584		
Ion Ratio	Lower	Upper	
43 100			
72 0.0	20.5	30.7#	

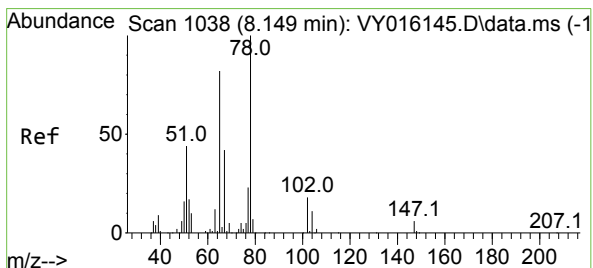
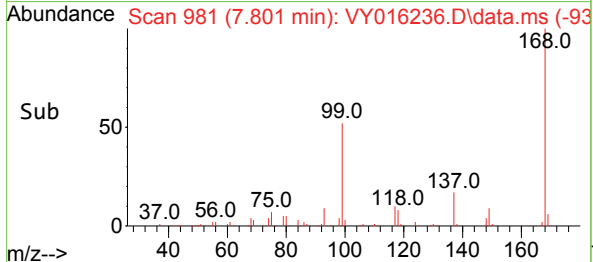
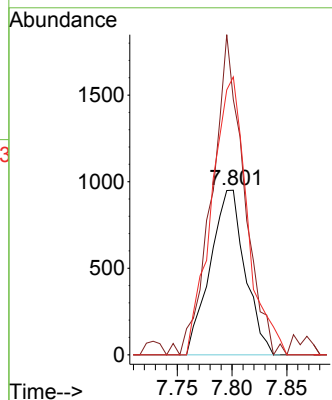
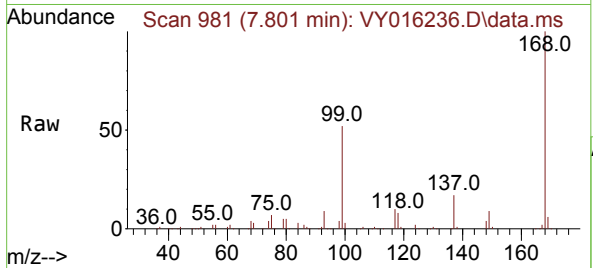




#31
Cyclohexane
Concen: 1.353 ug/l
RT: 7.801 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

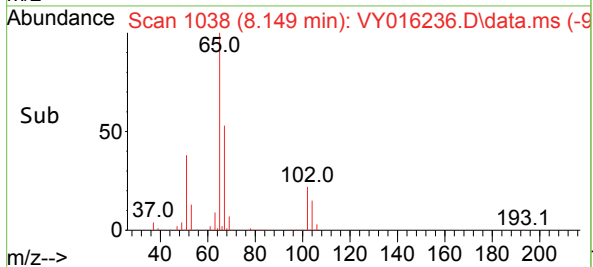
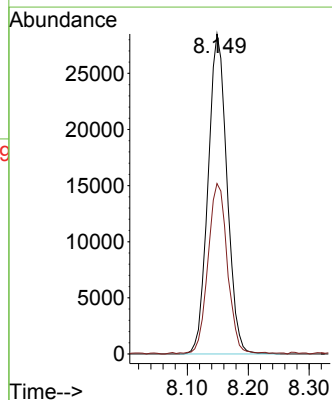
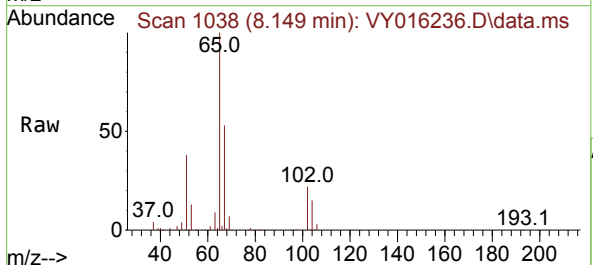
Instrument :
MSVOA_Y
ClientSampleId :

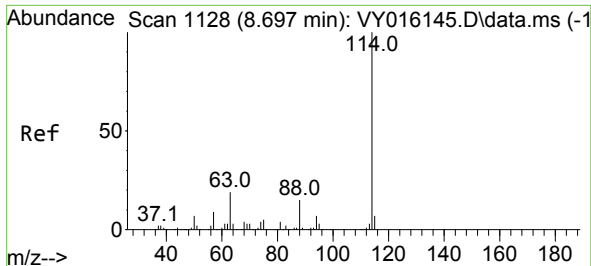
Tgt Ion: 56 Resp: 2104
Ion Ratio Lower Upper
56 100
69 155.0 27.8 41.6#
84 168.8 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 60.854 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.000 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Tgt Ion: 65 Resp: 61546
Ion Ratio Lower Upper
65 100
67 54.0 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: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

ClientSampleId :

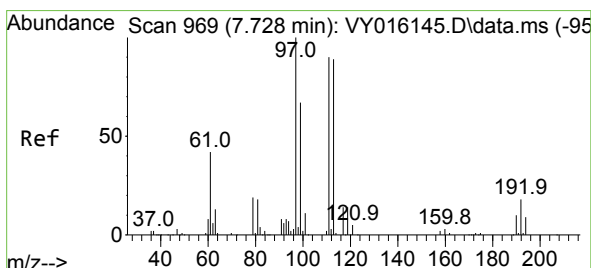
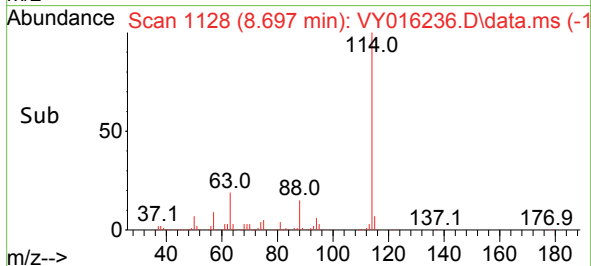
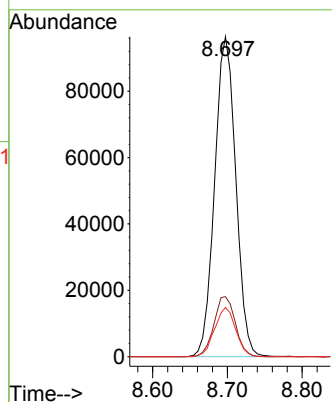
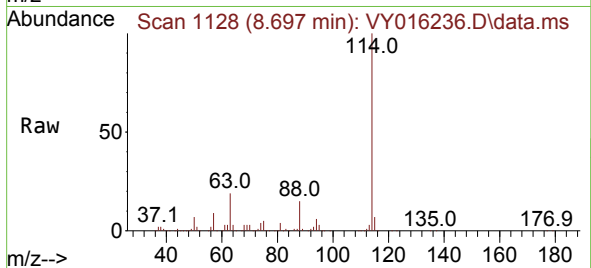
Tgt Ion:114 Resp: 189415

Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 47.700 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.000 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

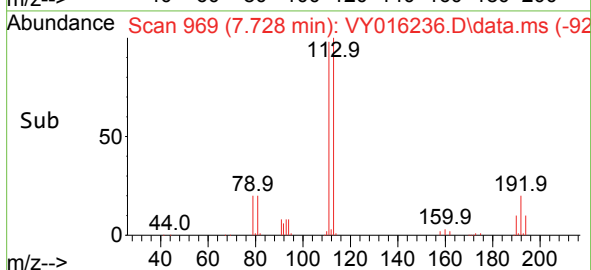
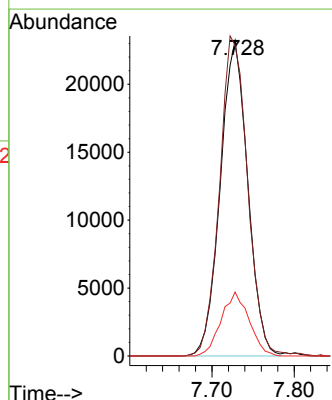
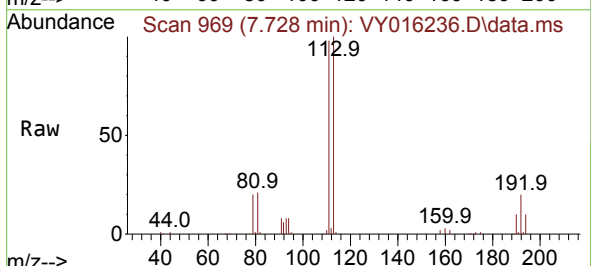
Tgt Ion:113 Resp: 53865

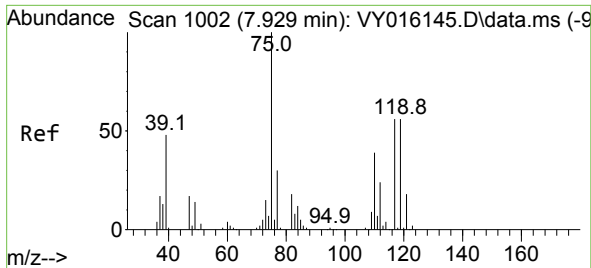
Ion Ratio Lower Upper

113 100

111 103.8 81.3 121.9

192 20.6 16.9 25.3

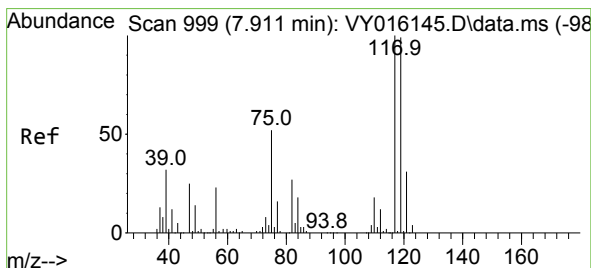
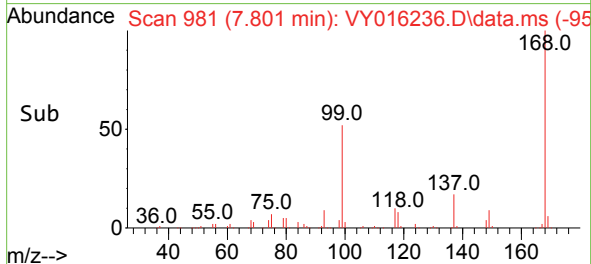
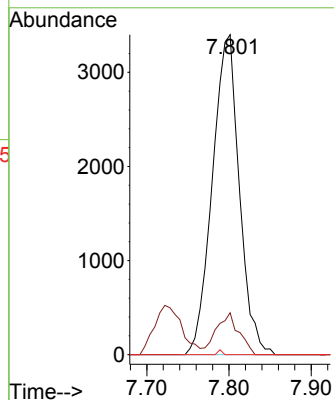
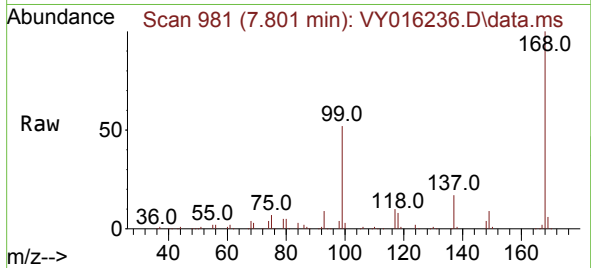




#36
 1,1-Dichloropropene
 Concen: 4.755 ug/l
 RT: 7.801 min Scan# 981
 Delta R.T. -0.128 min
 Lab File: VY016236.D
 Acq: 06 Nov 2023 14:56

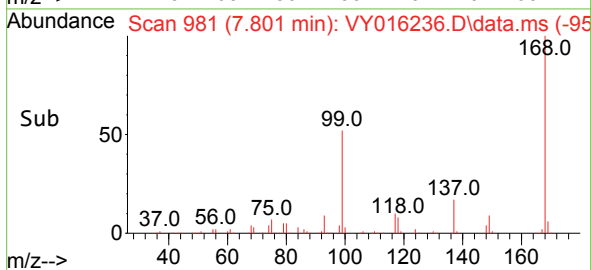
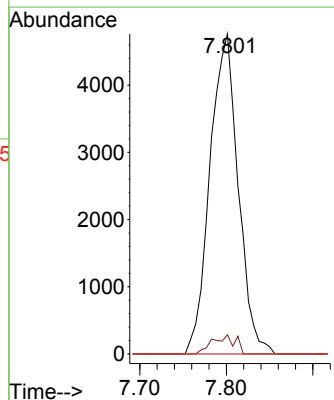
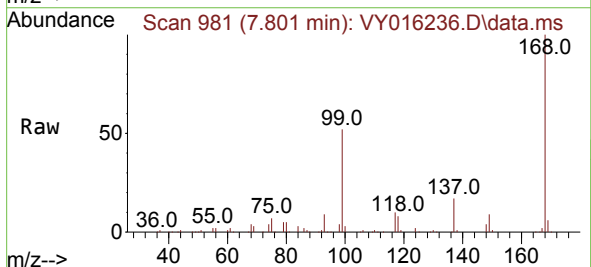
Instrument :
 MSVOA_Y
 ClientSampleId :

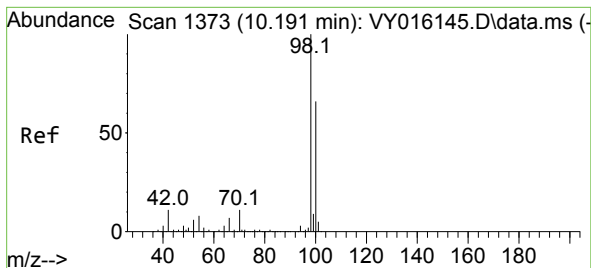
Tgt Ion: 75 Resp: 7753
 Ion Ratio Lower Upper
 75 100
 110 11.1 17.8 53.5#
 77 0.2 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 6.685 ug/l
 RT: 7.801 min Scan# 981
 Delta R.T. -0.110 min
 Lab File: VY016236.D
 Acq: 06 Nov 2023 14:56

Tgt Ion: 117 Resp: 10799
 Ion Ratio Lower Upper
 117 100
 119 6.0 76.4 114.6#
 121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 50.464 ug/l

RT: 10.185 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

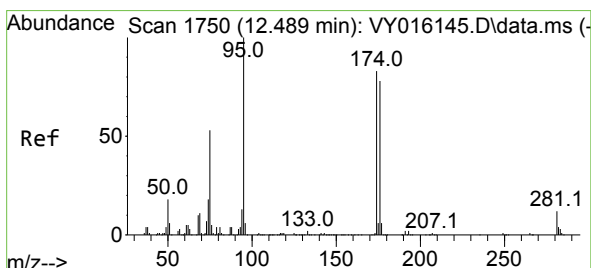
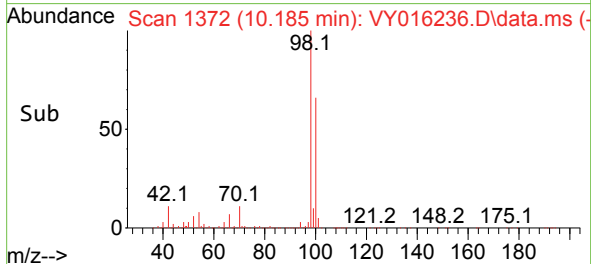
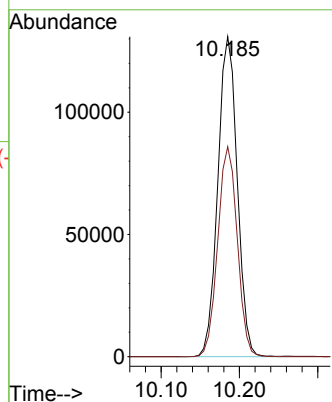
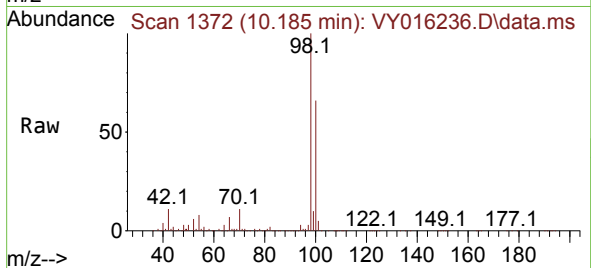
ClientSampleId :

Tgt Ion: 98 Resp: 225939

Ion Ratio Lower Upper

98 100

100 65.8 50.1 75.1



#62

4-Bromofluorobenzene

Concen: 55.375 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.006 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

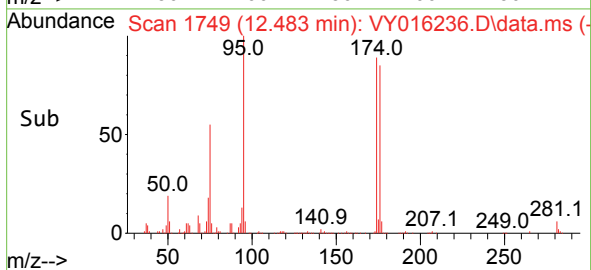
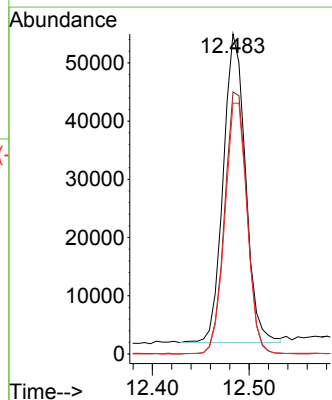
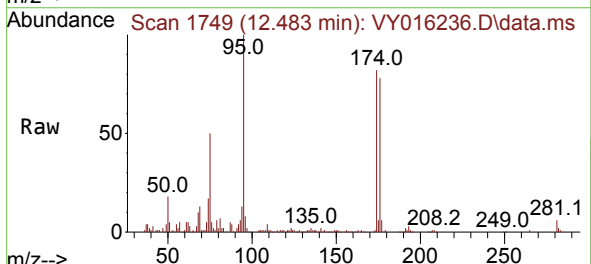
Tgt Ion: 95 Resp: 84777

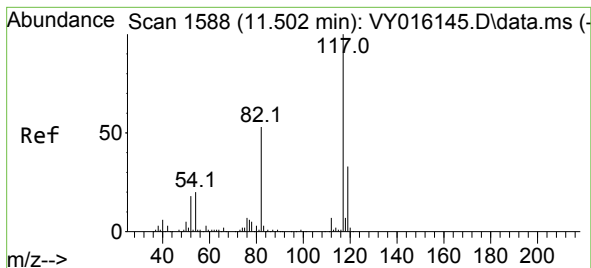
Ion Ratio Lower Upper

95 100

174 85.5 0.0 178.2

176 81.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

ClientSampleId :

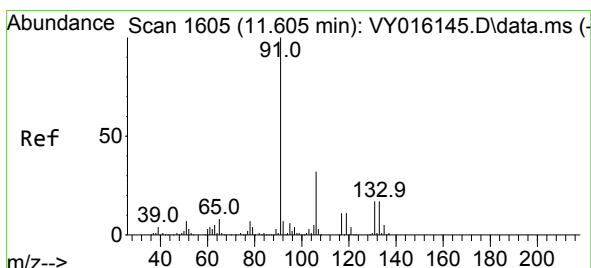
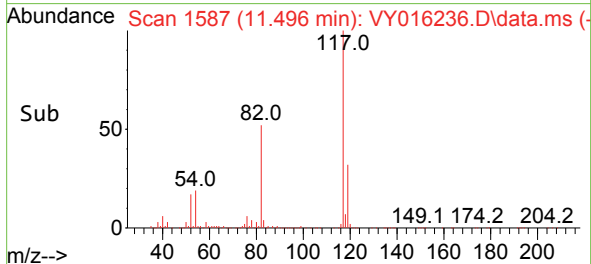
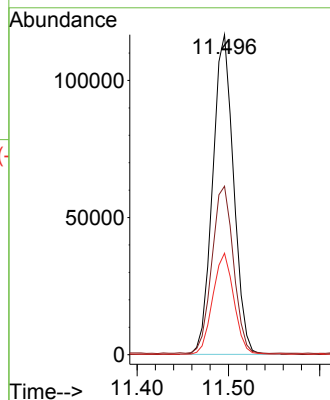
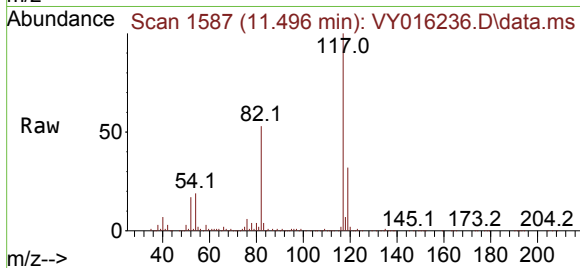
Tgt Ion:117 Resp: 185138

Ion Ratio Lower Upper

117 100

82 52.2 43.4 65.0

119 31.6 26.3 39.5



#67

Ethyl Benzene

Concen: 3.377 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. -0.006 min

Lab File: VY016236.D

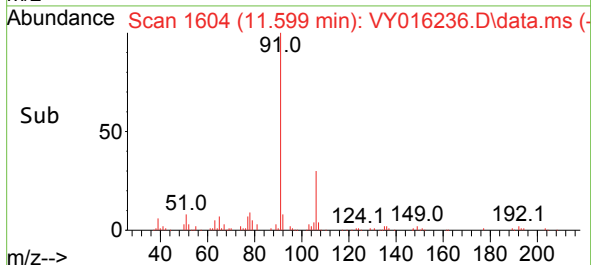
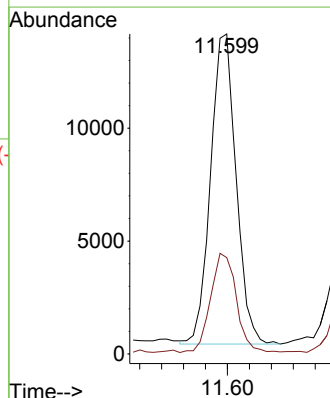
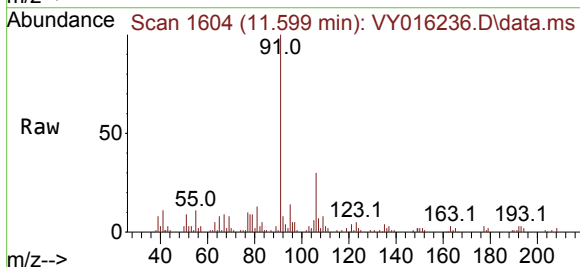
Acq: 06 Nov 2023 14:56

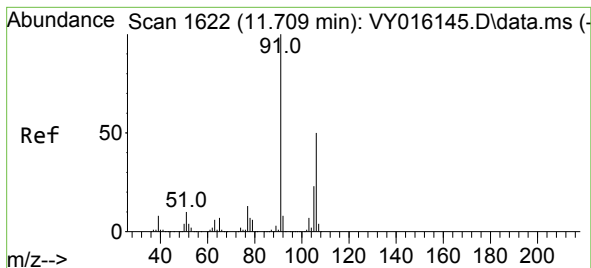
Tgt Ion: 91 Resp: 22219

Ion Ratio Lower Upper

91 100

106 30.6 24.6 36.8





#68

m/p-Xylenes

Concen: 1.813 ug/l

RT: 11.709 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

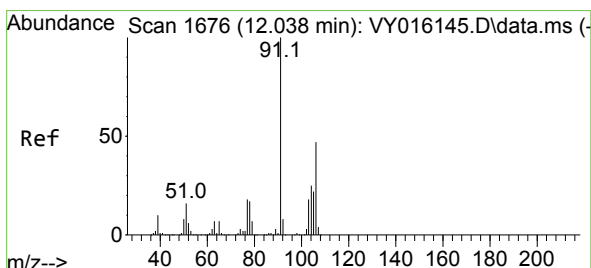
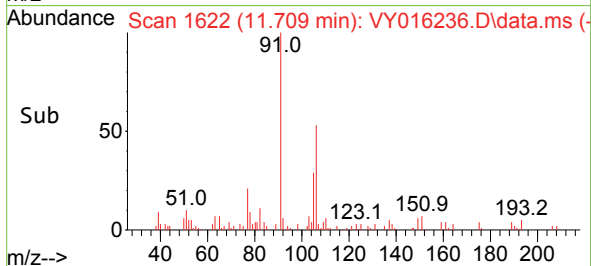
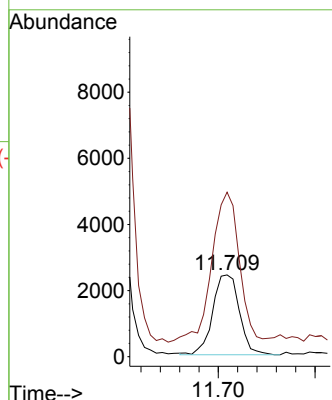
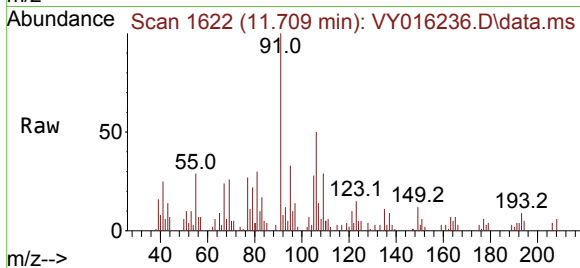
ClientSampleId :

Tgt Ion:106 Resp: 4608

Ion Ratio Lower Upper

106 100

91 193.9 166.1 249.1



#69

o-Xylene

Concen: 5.199 ug/l

RT: 12.032 min Scan# 1675

Delta R.T. -0.006 min

Lab File: VY016236.D

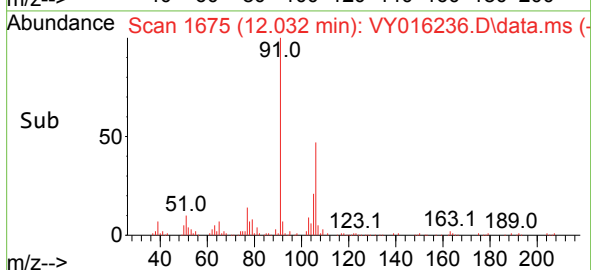
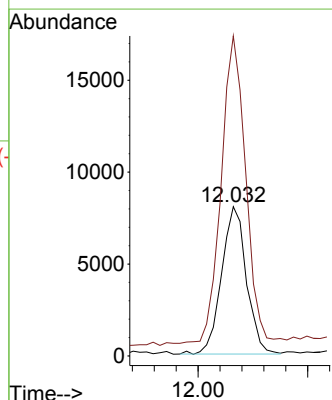
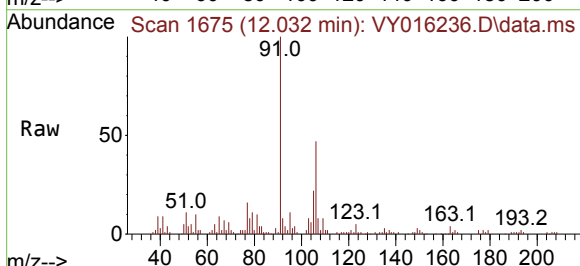
Acq: 06 Nov 2023 14:56

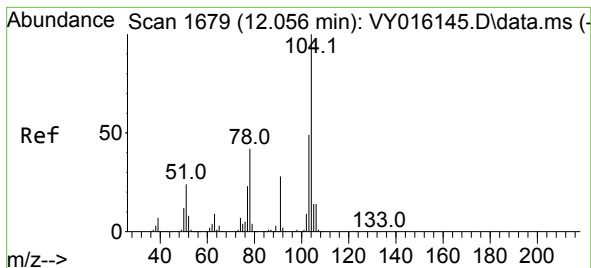
Tgt Ion:106 Resp: 12620

Ion Ratio Lower Upper

106 100

91 205.3 108.1 324.3





#70

Styrene

Concen: 1.071 ug/l

RT: 12.044 min Scan# 1

Delta R.T. -0.012 min

Lab File: VY016236.D

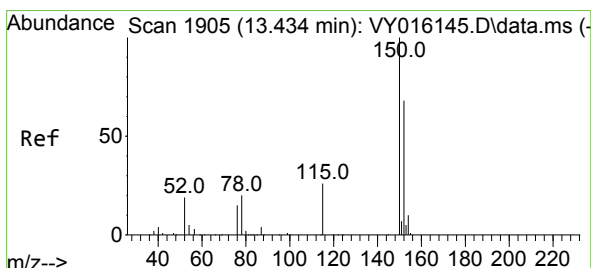
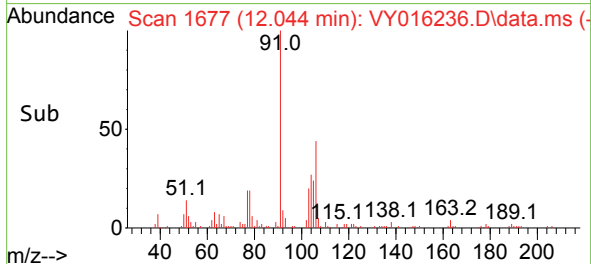
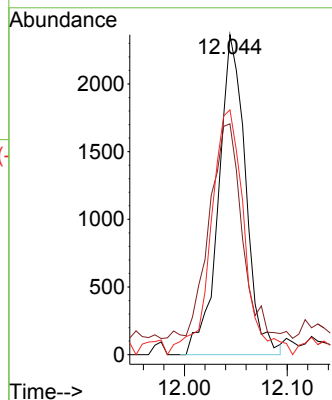
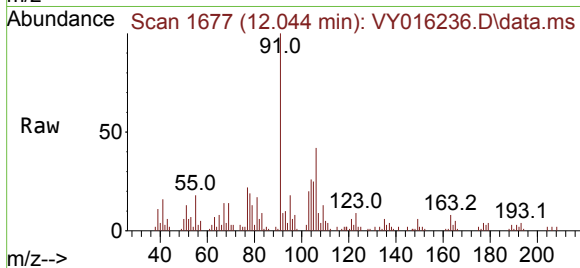
Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:104	Resp:	4322
Ion Ratio	Lower	Upper
104	100	
78	84.8	41.5 62.3#
103	93.7	44.6 67.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

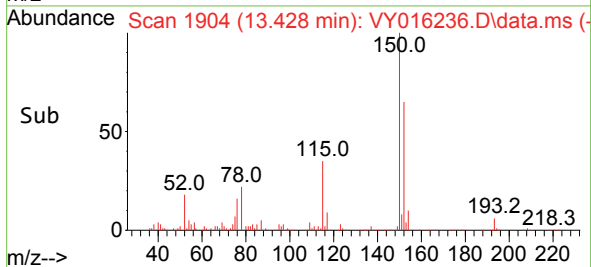
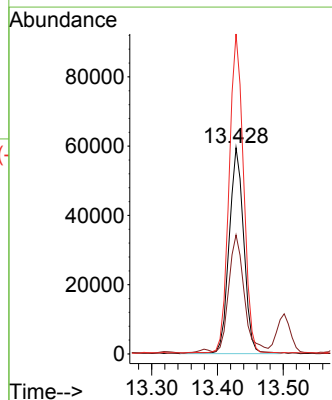
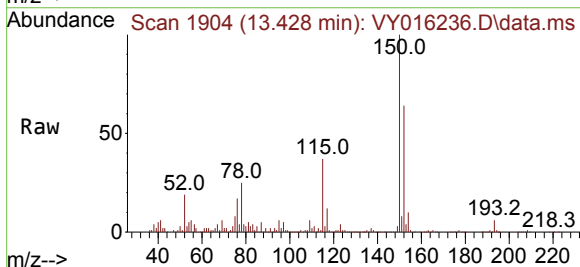
RT: 13.428 min Scan# 1904

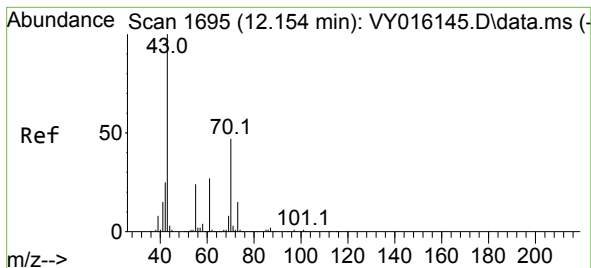
Delta R.T. -0.006 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Tgt Ion:152	Resp:	92008
Ion Ratio	Lower	Upper
152	100	
115	60.9	28.8 86.5
150	152.4	0.0 348.8





#74

N-amy1 acetate

Concen: 1.868 ug/l

RT: 12.136 min Scan# 1

Delta R.T. -0.018 min

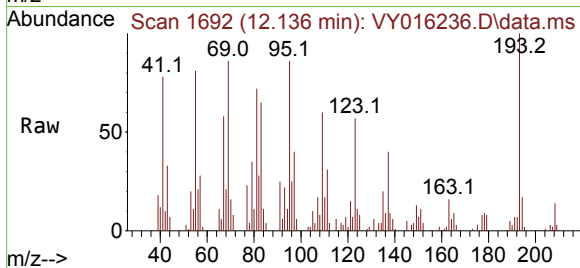
Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 43 Resp: 2802

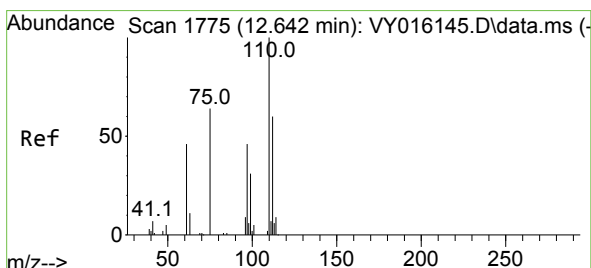
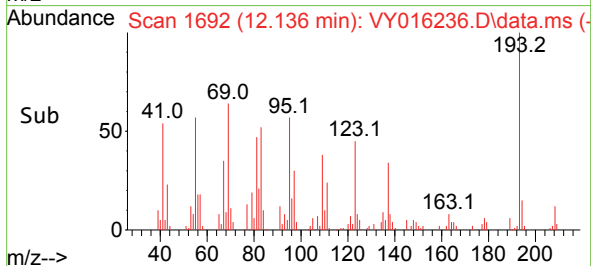
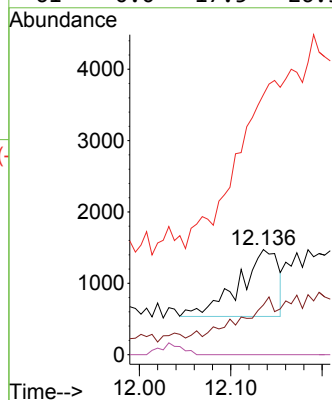
Ion Ratio Lower Upper

43 100

70 43.8 29.7 44.5

55 0.0 18.3 27.5#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 50.098 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.158 min

Lab File: VY016236.D

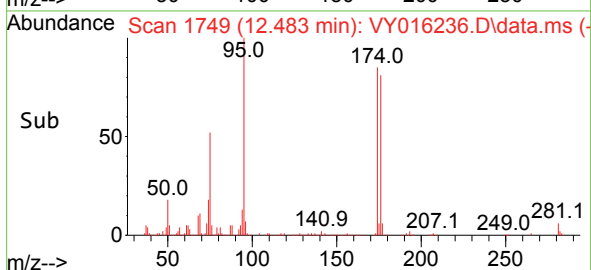
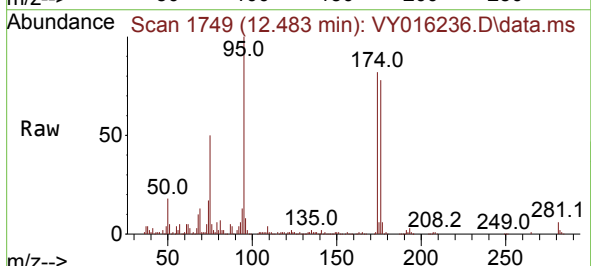
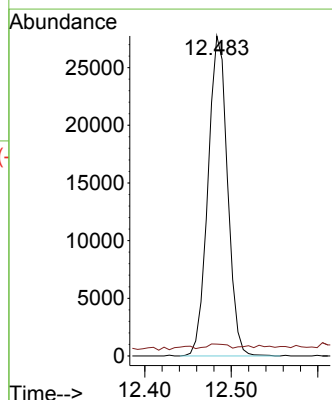
Acq: 06 Nov 2023 14:56

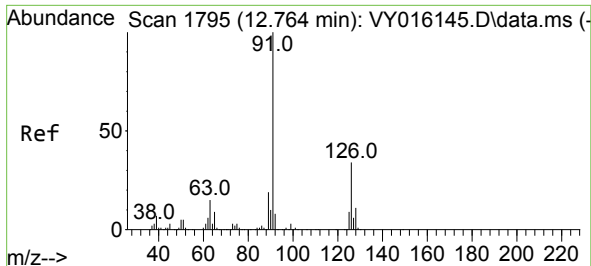
Tgt Ion: 75 Resp: 43407

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

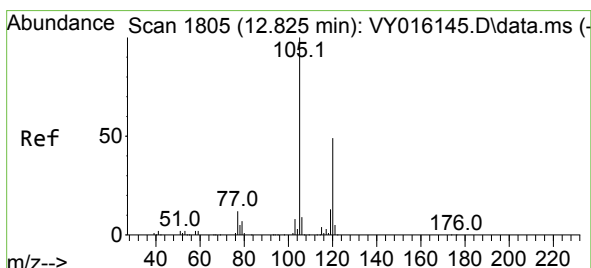
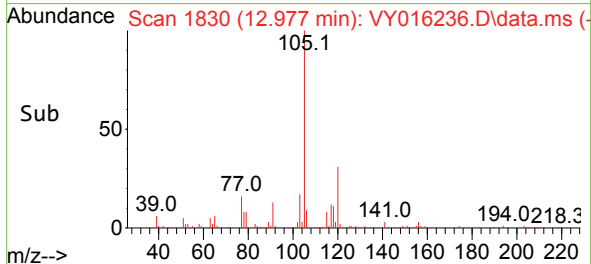
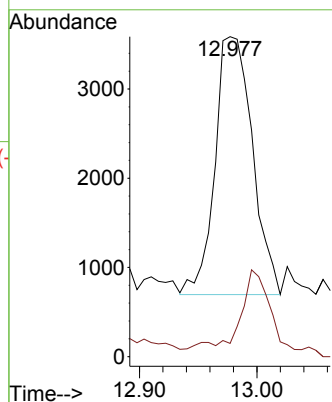
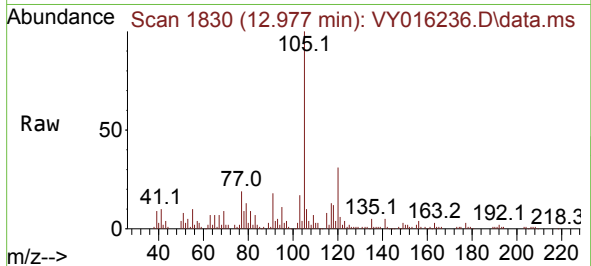




#79
2-Chlorotoluene
Concen: 1.406 ug/l
RT: 12.977 min Scan# 1830
Delta R.T. 0.213 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

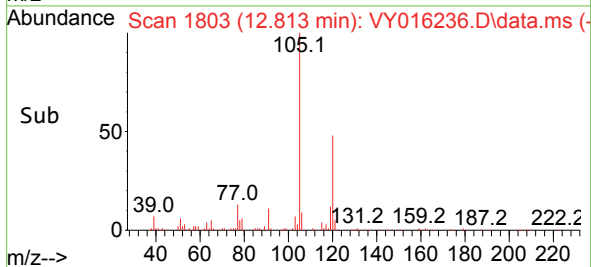
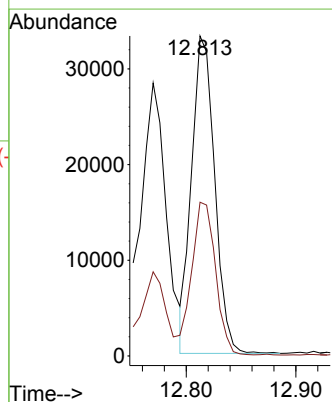
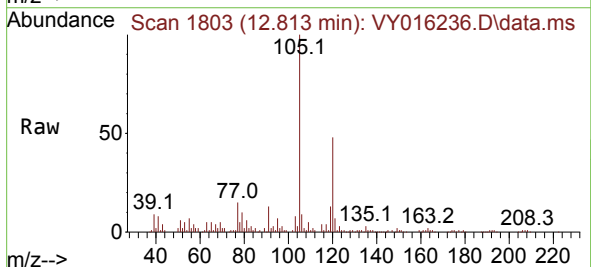
Instrument :
MSVOA_Y
ClientSampleId :

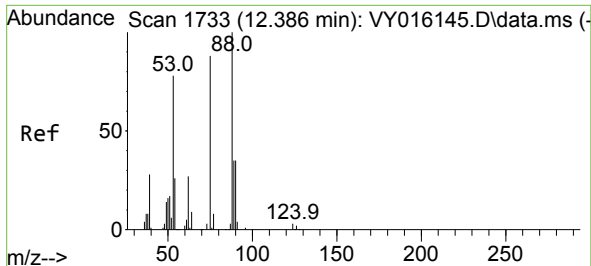
Tgt Ion: 91 Resp: 6397
Ion Ratio Lower Upper
91 100
126 22.2 17.3 51.7



#80
1,3,5-Trimethylbenzene
Concen: 8.683 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. -0.012 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Tgt Ion: 105 Resp: 48549
Ion Ratio Lower Upper
105 100
120 50.5 23.9 71.7

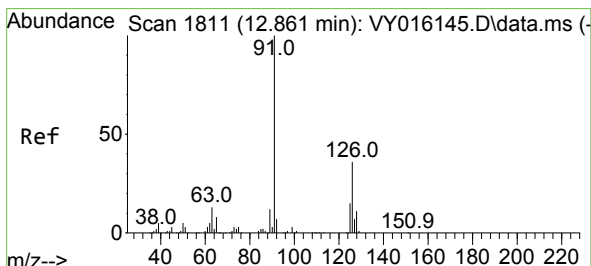
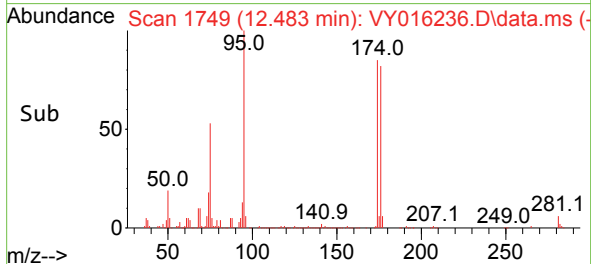
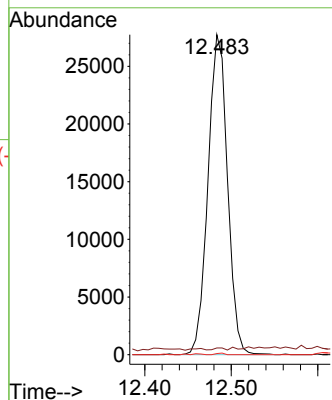
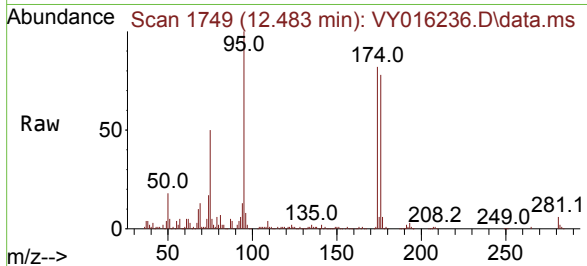




#81
trans-1,4-Dichloro-2-butene
Concen: 108.623 ug/l
RT: 12.483 min Scan# 1733
Delta R.T. 0.098 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

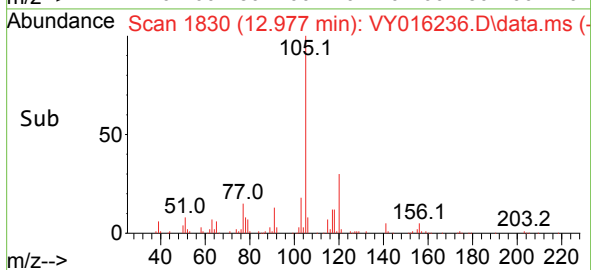
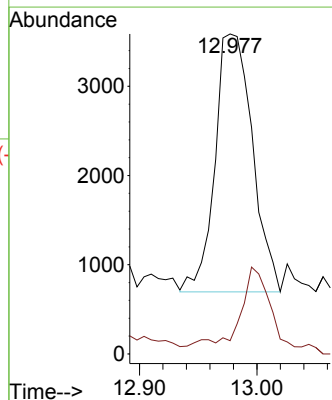
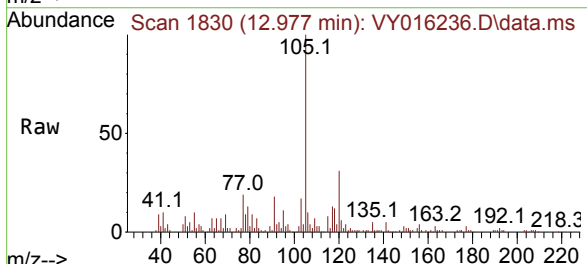
Instrument :
MSVOA_Y
ClientSampleId :

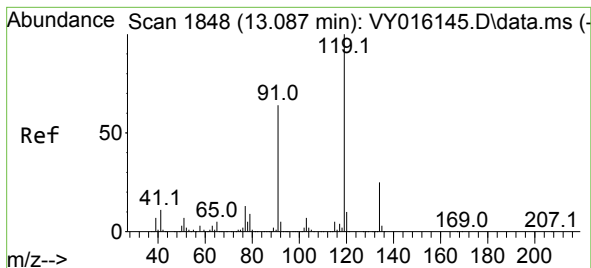
Tgt Ion: 75 Resp: 43407
Ion Ratio Lower Upper
75 100
53 0.3 77.8 116.8#
89 0.2 37.4 56.0#



#82
4-Chlorotoluene
Concen: 1.369 ug/l
RT: 12.977 min Scan# 1830
Delta R.T. 0.116 min
Lab File: VY016236.D
Acq: 06 Nov 2023 14:56

Tgt Ion: 91 Resp: 6397
Ion Ratio Lower Upper
91 100
126 28.1 17.2 51.6





#83

tert-Butylbenzene

Concen: 4.181 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.037 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

ClientSampleId :

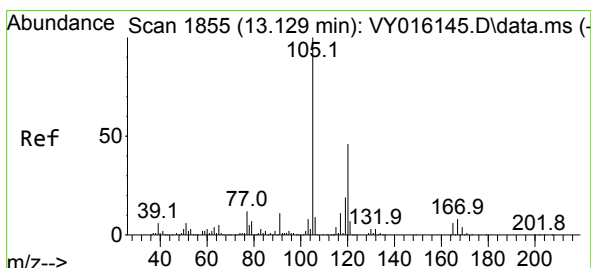
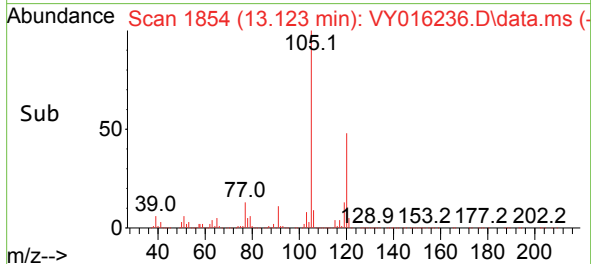
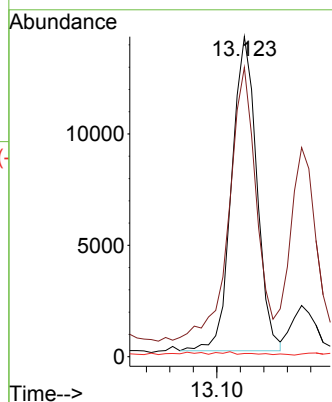
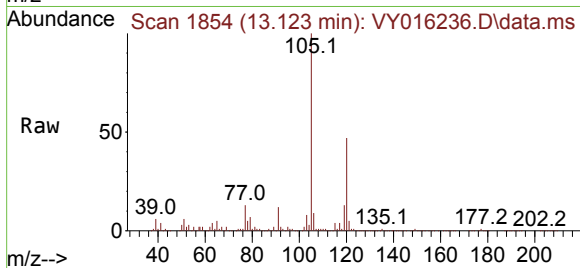
Tgt Ion:119 Resp: 20917

Ion Ratio Lower Upper

119 100

91 94.1 32.9 98.6

134 0.5 13.0 38.9#



#84

1,2,4-Trimethylbenzene

Concen: 30.246 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.006 min

Lab File: VY016236.D

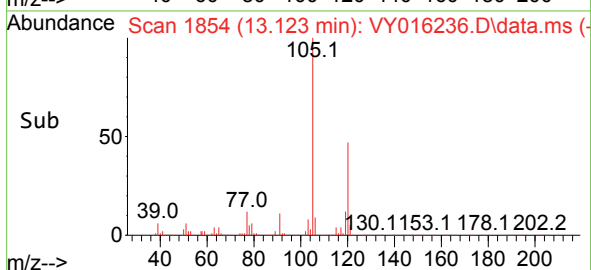
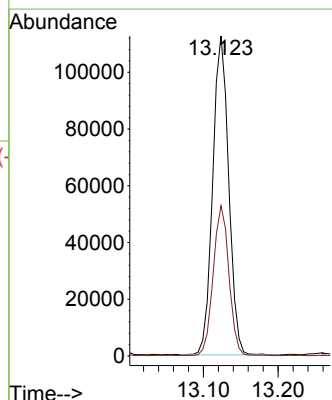
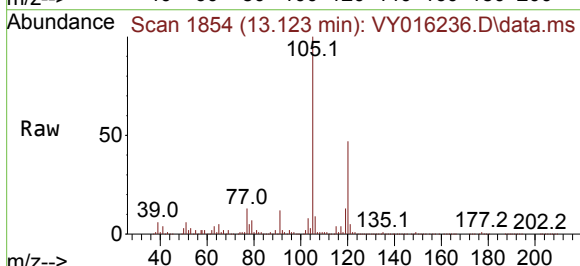
Acq: 06 Nov 2023 14:56

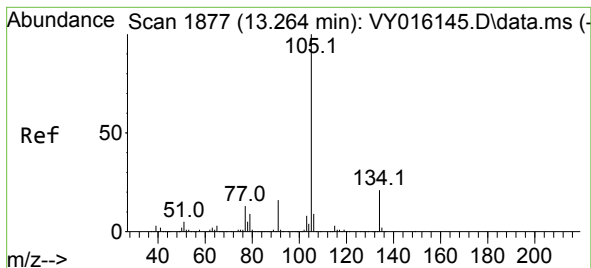
Tgt Ion:105 Resp: 167347

Ion Ratio Lower Upper

105 100

120 46.2 22.2 66.6





#85

sec-Butylbenzene

Concen: 22.789 ug/l

RT: 13.123 min Scan# 1

Delta R.T. -0.140 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

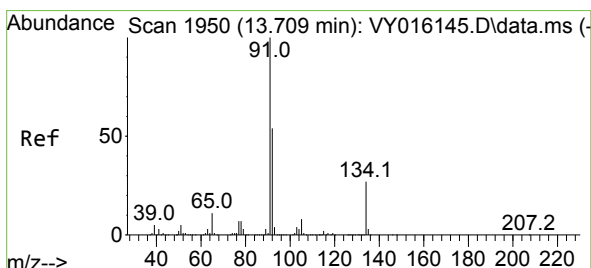
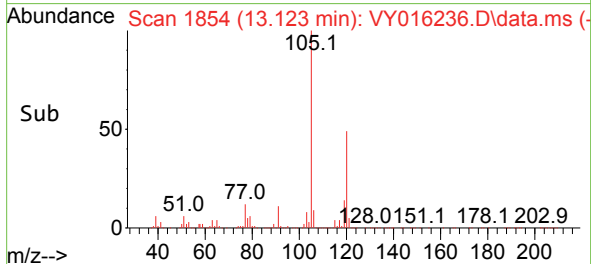
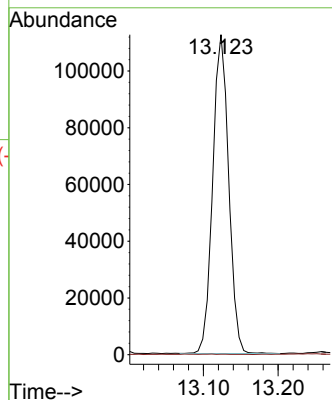
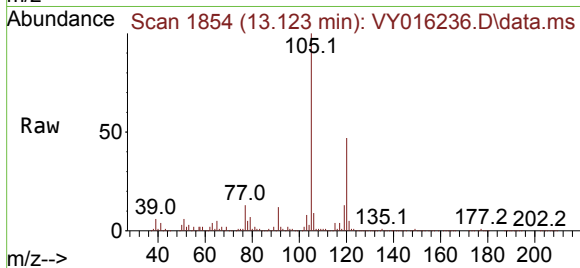
ClientSampleId :

Tgt Ion:105 Resp: 167347

Ion Ratio Lower Upper

105 100

134 0.1 10.2 30.6#



#89

n-Butylbenzene

Concen: 8.394 ug/l

RT: 13.629 min Scan# 1937

Delta R.T. -0.079 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

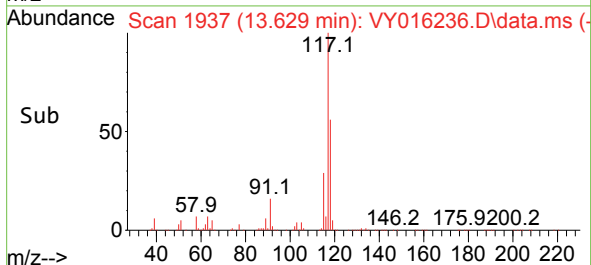
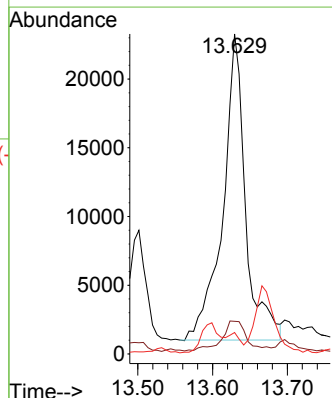
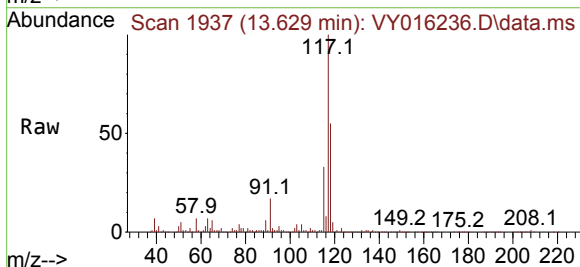
Tgt Ion: 91 Resp: 46938

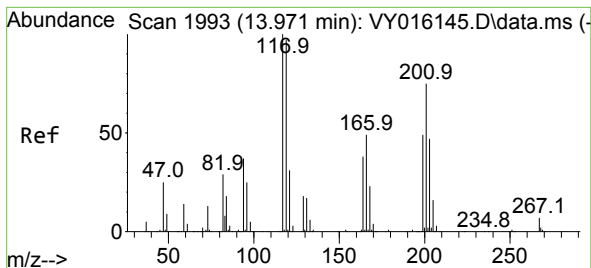
Ion Ratio Lower Upper

91 100

92 10.8 25.4 76.0#

134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 9.448 ug/l

RT: 13.965 min Scan# 1993

Delta R.T. -0.006 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

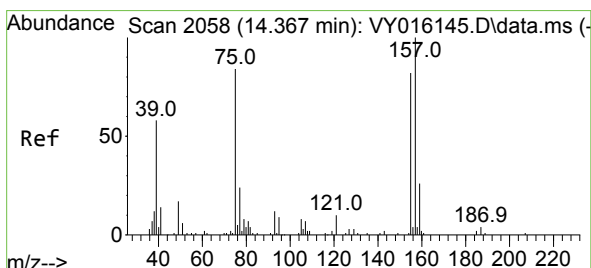
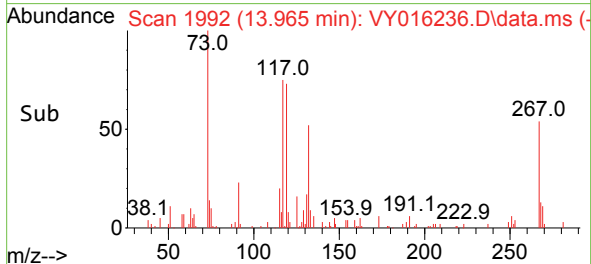
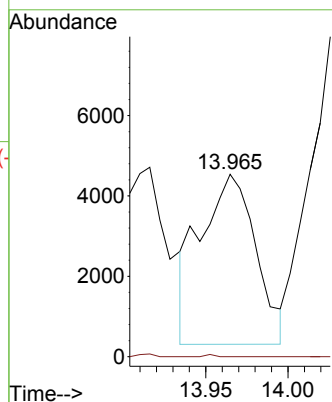
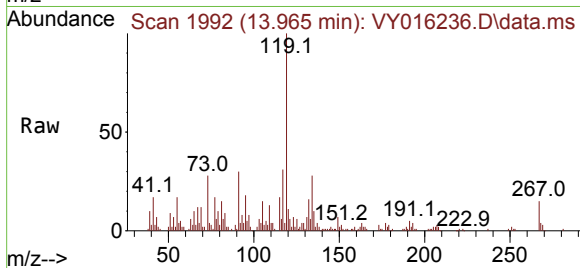
ClientSampleId :

Tgt Ion:117 Resp: 9909

Ion Ratio Lower Upper

117 100

201 0.2 41.6 124.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 8.685 ug/l

RT: 14.337 min Scan# 2053

Delta R.T. -0.030 min

Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

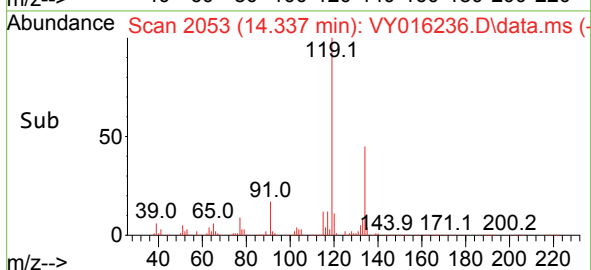
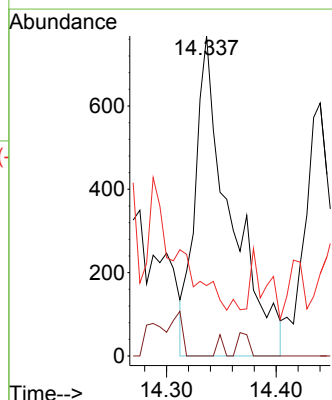
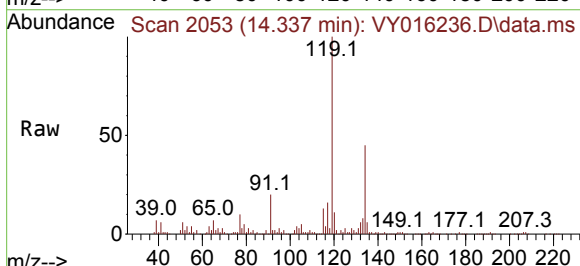
Tgt Ion: 75 Resp: 1707

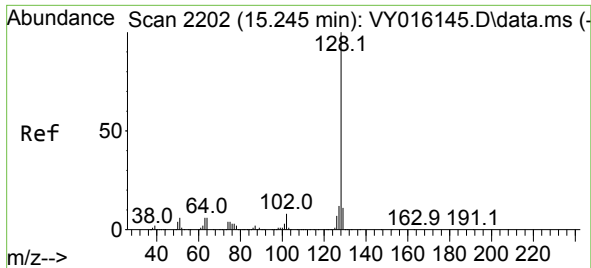
Ion Ratio Lower Upper

75 100

155 1.1 41.5 124.6#

157 0.0 51.8 155.5#





#95

Naphthalene

Concen: 2579.346 ug/l

RT: 15.239 min Scan# 21

Delta R.T. -0.006 min

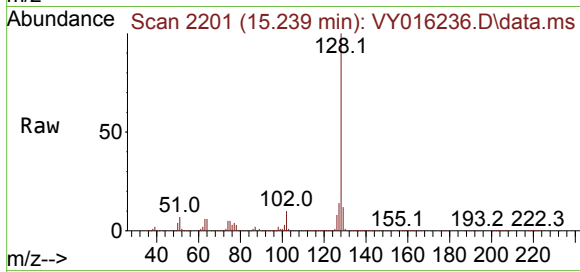
Lab File: VY016236.D

Acq: 06 Nov 2023 14:56

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 8259146

Ion Ratio Lower Upper

128 100

127 13.6 10.8 16.2

129 11.8 8.6 13.0

