

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111522\
 Data File : VY011455.D
 Acq On : 15 Nov 2022 14:06
 Operator : KP/MD
 Sample : N5417-01
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 AUD-1731

Quant Time: Nov 16 00:21:04 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111022S.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 10 17:47:26 2022
 Response via : Initial Calibration

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

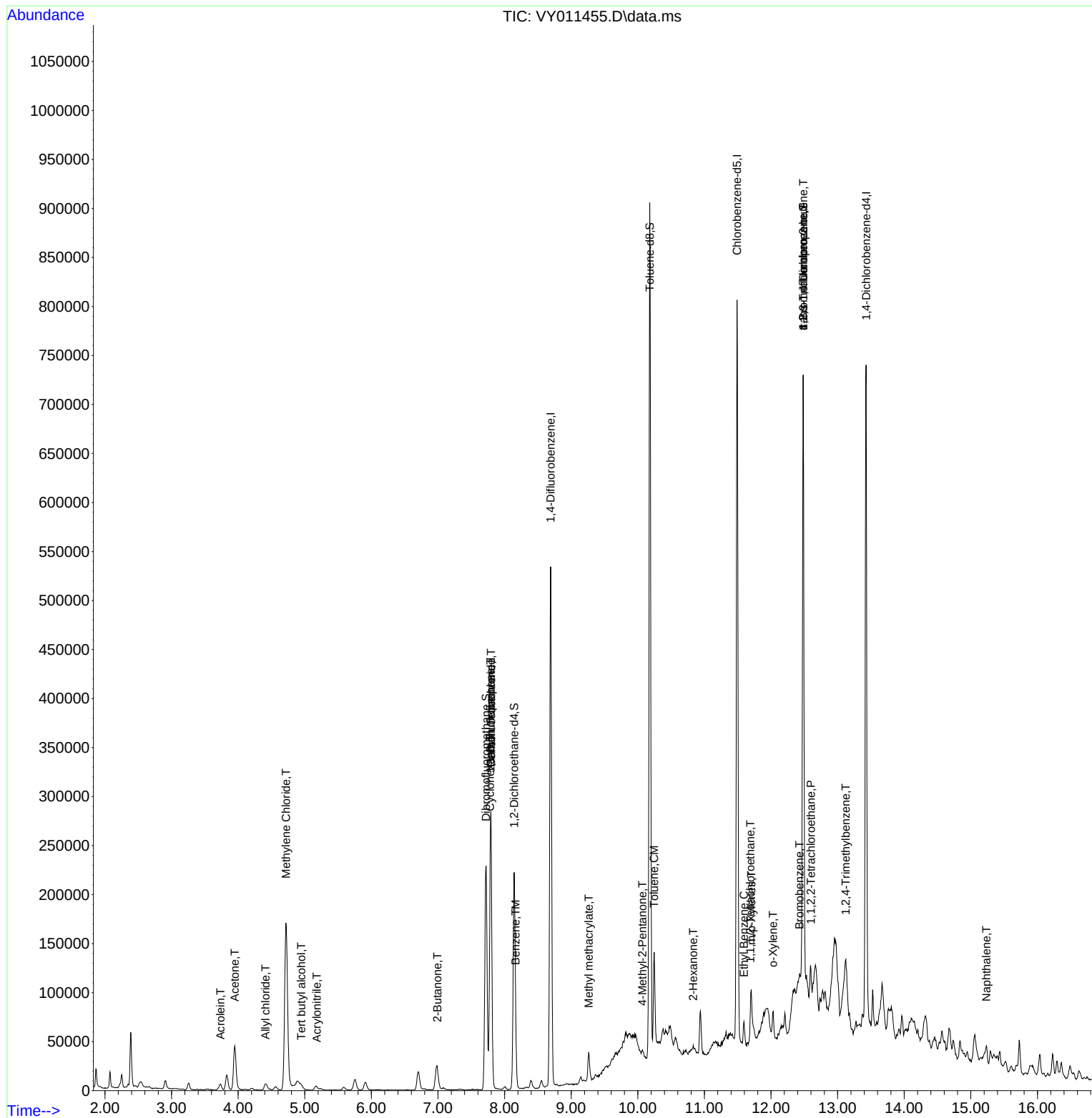
Internal Standards						
1) Pentafluorobenzene	7.795	168	233370	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	481311	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	449931	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	189941	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	157789	80.687	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 161.380%			
35) Dibromofluoromethane	7.722	113	167505	62.099	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 124.200%			
50) Toluene-d8	10.179	98	600247	58.249	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 116.500%			
62) 4-Bromofluorobenzene	12.483	95	196343	54.627	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 109.260%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.906	85	318	Below Cal		91
11) Tert butyl alcohol	4.948	59	9075	8.393 ug/l #		86
13) Acrolein	3.735	56	7315	102.054 ug/l		84
14) Allyl chloride	4.412	41	11632	4.116 ug/l #		39
15) Acrylonitrile	5.180	53	5795	9.900 ug/l		94
16) Acetone	3.948	43	75868	147.020 ug/l #		82
18) Methyl Acetate	4.491	43	541	Below Cal #		65
20) Methylene Chloride	4.716	84	143845	51.505 ug/l #		77
25) 2-Butanone	6.990	43	17864	24.303 ug/l #		74
31) Cyclohexane	7.783	56	4778	1.360 ug/l #		1
36) 1,1-Dichloropropene	7.789	75	15361	3.669 ug/l #		51
38) Carbon Tetrachloride	7.795	117	22333	4.904 ug/l #		15
40) Benzene	8.167	78	28358	2.268 ug/l		99
48) Methyl methacrylate	9.264	41	7142	4.381 ug/l #		43
51) 4-Methyl-2-Pentanone	10.069	43	3726	1.910 ug/l #		64
52) Toluene	10.246	92	43729	5.478 ug/l		95
59) 2-Hexanone	10.831	43	2447	1.771 ug/l		75
66) 1,1,1,2-Tetrachloroethane	11.691	131	5661	1.680 ug/l #		11
67) Ethyl Benzene	11.593	91	17053	1.084 ug/l		96
68) m/p-Xylenes	11.703	106	15223	2.468 ug/l		96
69) o-Xylene	12.032	106	8008	1.376 ug/l		93
75) 1,1,2,2-Tetrachloroethane	12.599	83	2929	1.161 ug/l #		26
76) 1,2,3-Trichloropropane	12.483	75	91693	41.705 ug/l #		100
77) Bromobenzene	12.428	156	44688	14.235 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.483	75	91693	100.246 ug/l #		8
84) 1,2,4-Trimethylbenzene	13.123	105	22105	2.034 ug/l		79
95) Naphthalene	15.233	128	11688	4.795 ug/l #		89

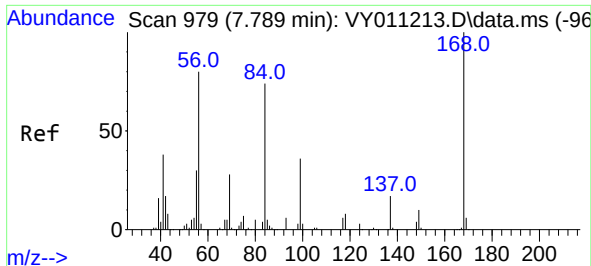
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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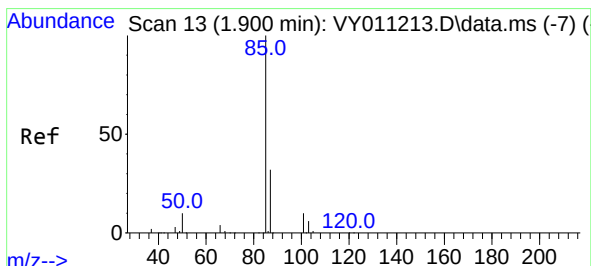
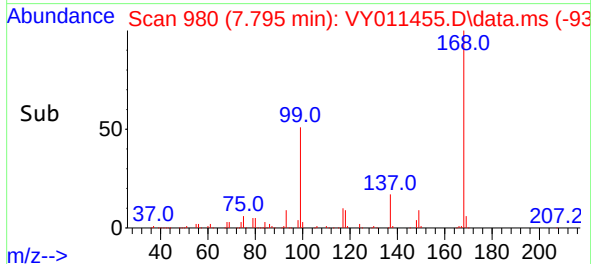
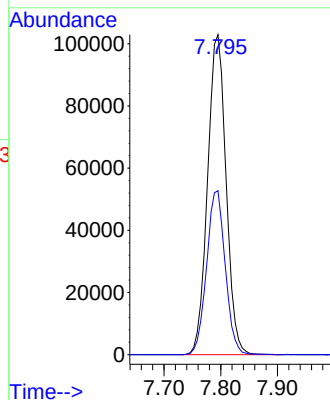
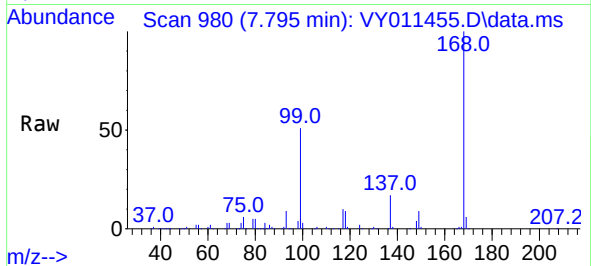




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

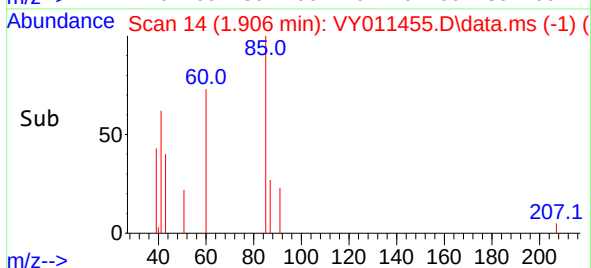
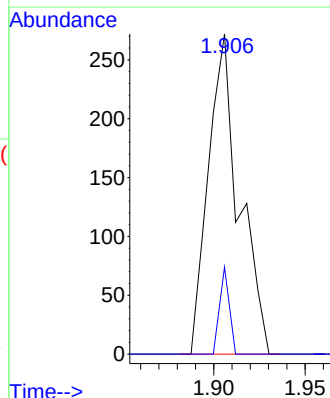
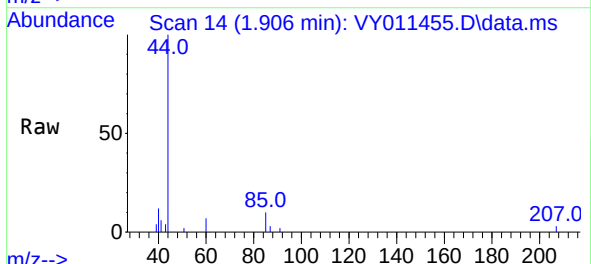
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

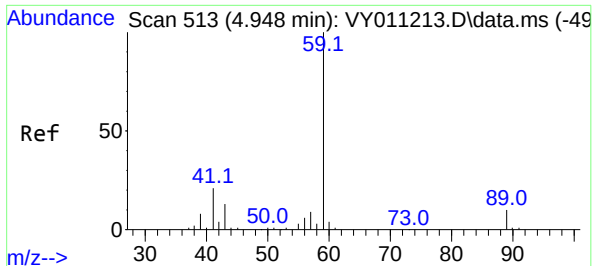
Tgt Ion:168 Resp: 233370
Ion Ratio Lower Upper
168 100
99 51.3 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.906 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 85 Resp: 318
Ion Ratio Lower Upper
85 100
87 27.2 16.1 48.2





#11

Tert butyl alcohol

Concen: 8.393 ug/l

RT: 4.948 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY011455.D

Acq: 15 Nov 2022 14:06

Instrument :

MSVOA_Y

ClientSampleId :

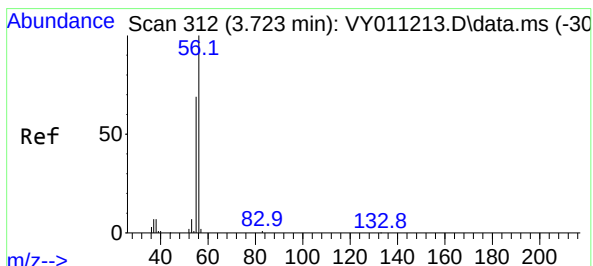
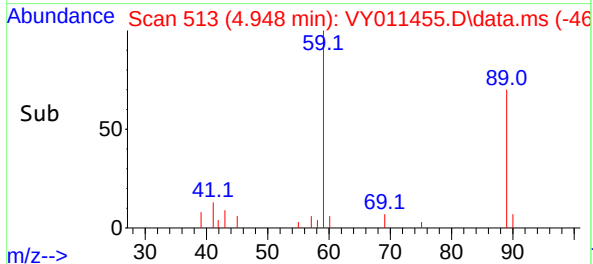
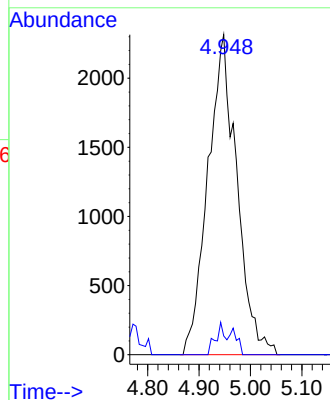
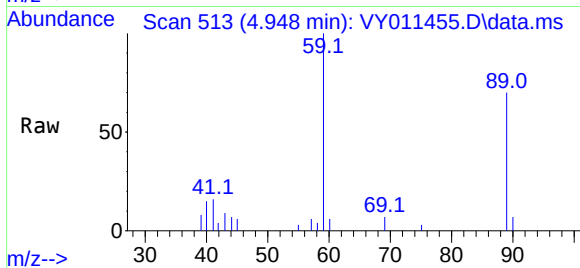
AUD-1731

Tgt Ion: 59 Resp: 9075

Ion Ratio Lower Upper

59 100

57 3.2 6.4 9.6#



#13

Acrolein

Concen: 102.054 ug/l

RT: 3.735 min Scan# 314

Delta R.T. 0.012 min

Lab File: VY011455.D

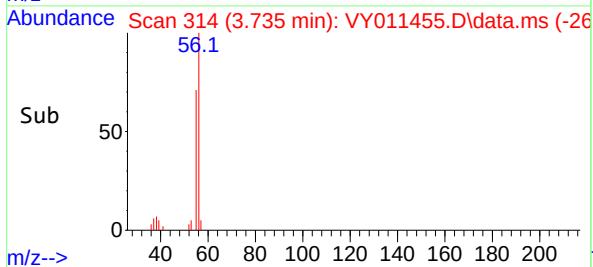
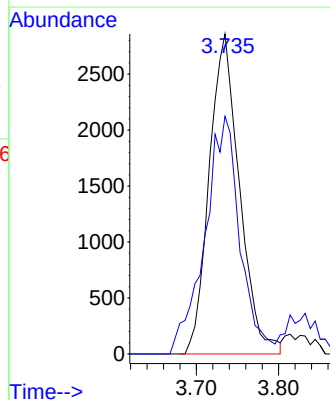
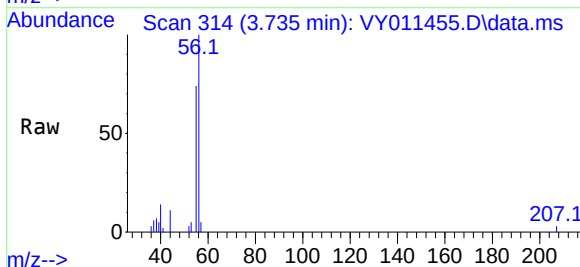
Acq: 15 Nov 2022 14:06

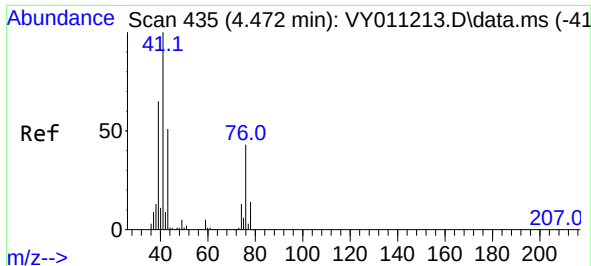
Tgt Ion: 56 Resp: 7315

Ion Ratio Lower Upper

56 100

55 85.5 57.6 86.4

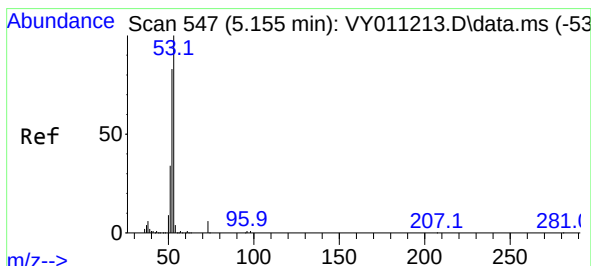
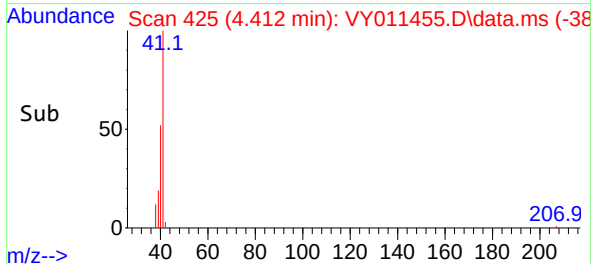
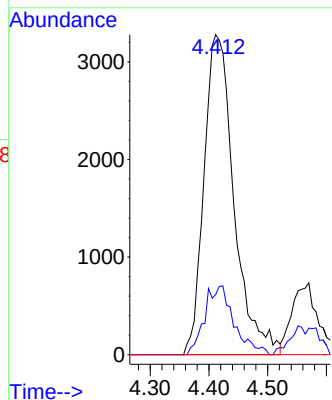
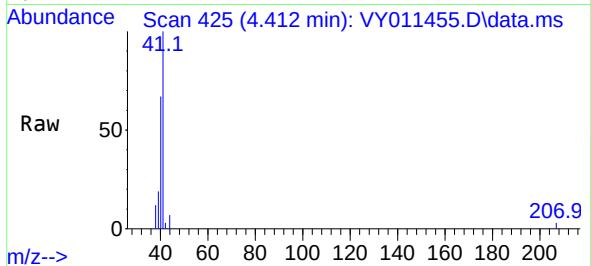




#14
 Allyl chloride
 Concen: 4.116 ug/l
 RT: 4.412 min Scan# 41
 Delta R.T. -0.061 min
 Lab File: VY011455.D
 Acq: 15 Nov 2022 14:06

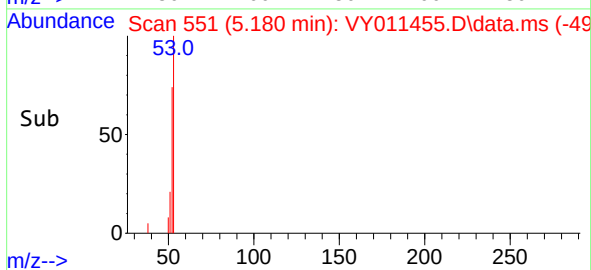
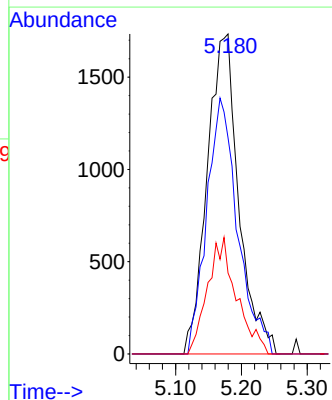
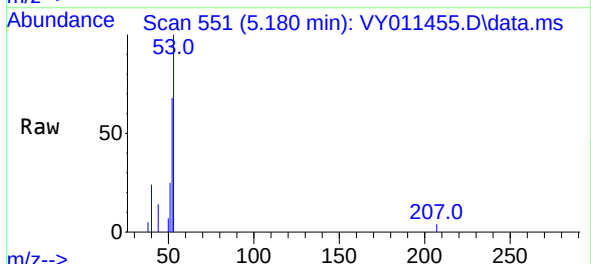
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 AUD-1731

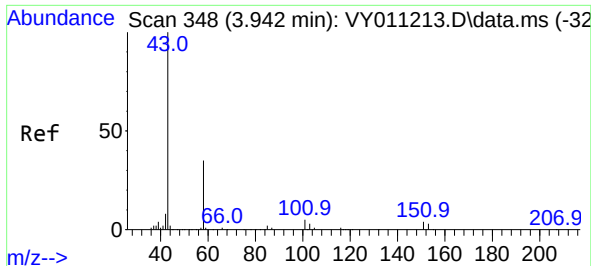
Tgt Ion: 41 Resp: 11632
 Ion Ratio Lower Upper
 41 100
 39 21.1 58.8 88.2#
 76 0.0 25.1 37.7#



#15
 Acrylonitrile
 Concen: 9.900 ug/l
 RT: 5.180 min Scan# 551
 Delta R.T. 0.025 min
 Lab File: VY011455.D
 Acq: 15 Nov 2022 14:06

Tgt Ion: 53 Resp: 5795
 Ion Ratio Lower Upper
 53 100
 52 78.2 67.0 100.4
 51 33.4 29.8 44.6

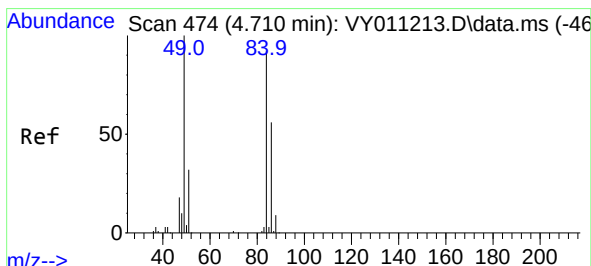
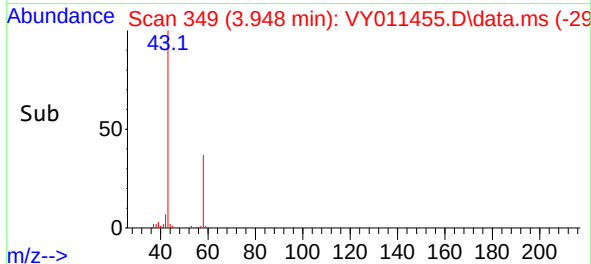
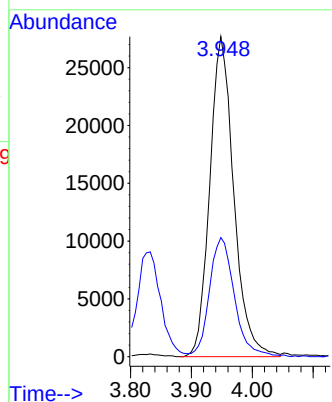
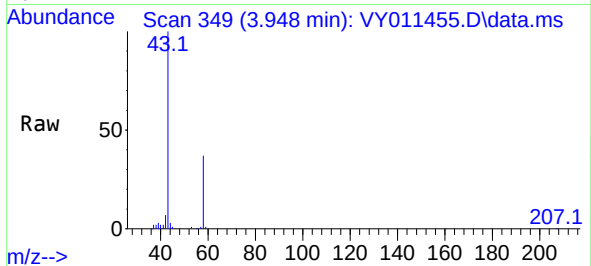




#16
Acetone
Concen: 147.020 ug/l
RT: 3.948 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

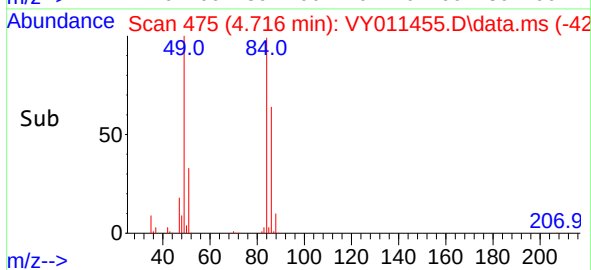
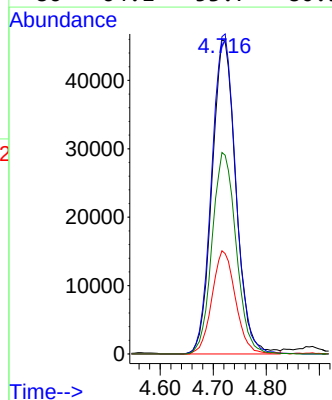
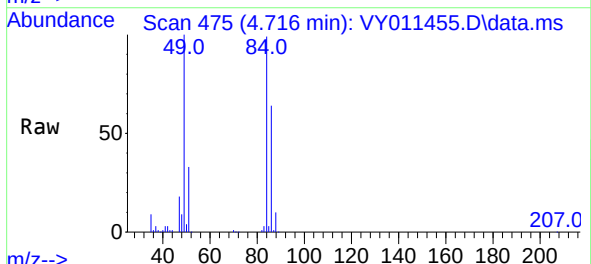
Instrument :
MSVOA_Y
ClientSampleId :
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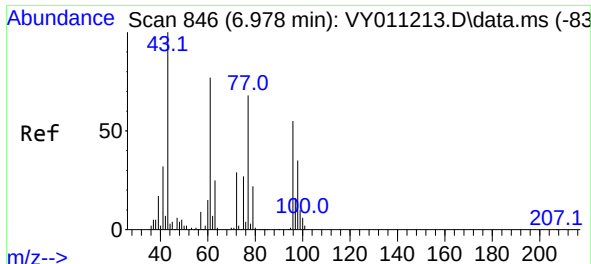
Tgt Ion: 43 Resp: 75868
Ion Ratio Lower Upper
43 100
58 36.8 22.0 33.0#



#20
Methylene Chloride
Concen: 51.505 ug/l
RT: 4.716 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 84 Resp: 143845
Ion Ratio Lower Upper
84 100
49 100.9 114.4 171.6#
51 32.8 35.3 52.9#
86 64.1 53.7 80.5

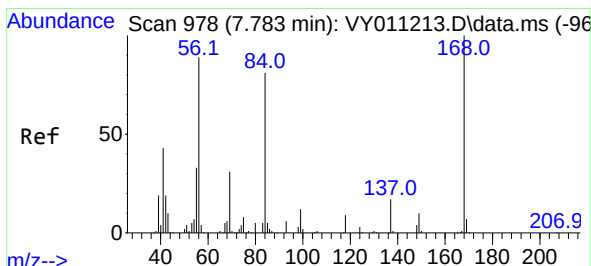
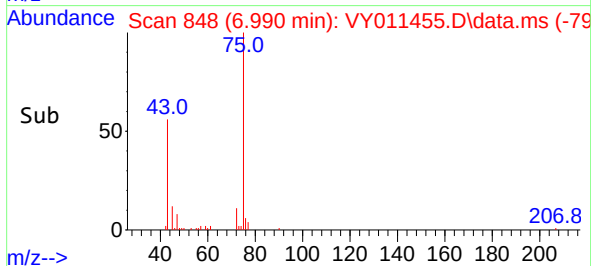
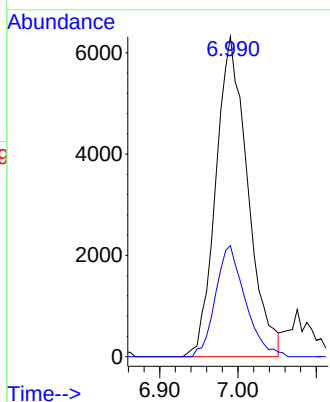
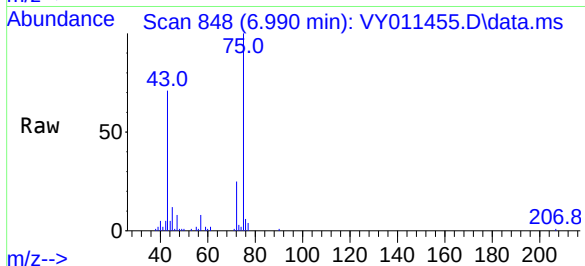




#25
2-Butanone
Concen: 24.303 ug/l
RT: 6.990 min Scan# 846
Delta R.T. 0.012 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

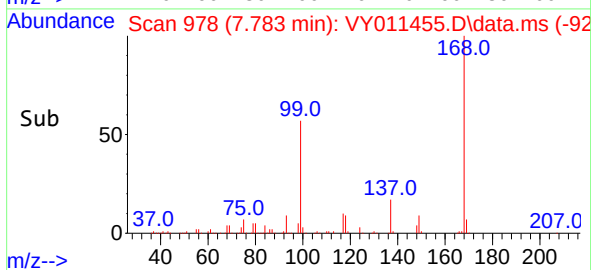
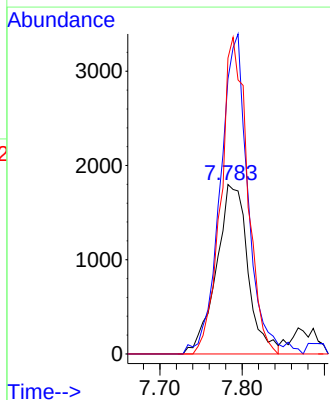
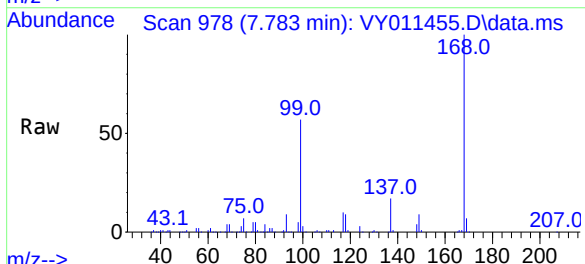
Instrument :
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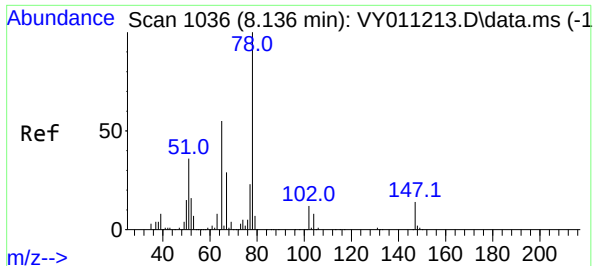
Tgt Ion: 43 Resp: 17864
Ion Ratio Lower Upper
43 100
72 34.7 17.7 26.5#



#31
Cyclohexane
Concen: 1.360 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.000 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 56 Resp: 4778
Ion Ratio Lower Upper
56 100
69 162.3 26.7 40.1#
84 174.6 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 80.687 ug/l

RT: 8.143 min Scan# 1

Delta R.T. 0.007 min

Lab File: VY011455.D

Acq: 15 Nov 2022 14:06

Instrument :

MSVOA_Y

ClientSampleId :

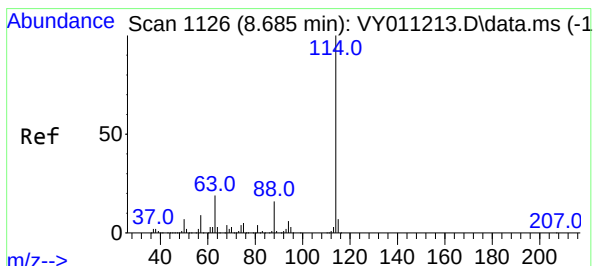
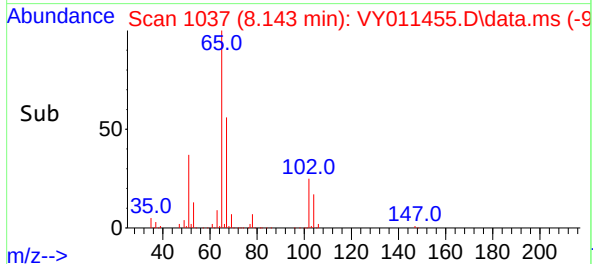
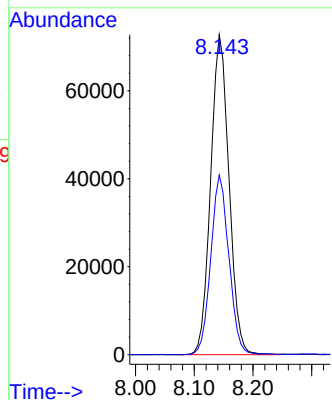
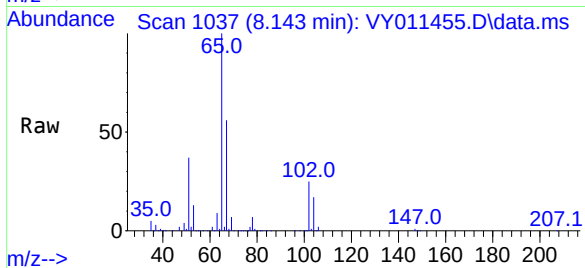
AUD-1731

Tgt Ion: 65 Resp: 157789

Ion Ratio Lower Upper

65 100

67 55.3 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY011455.D

Acq: 15 Nov 2022 14:06

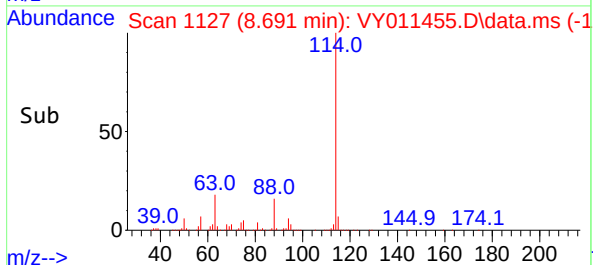
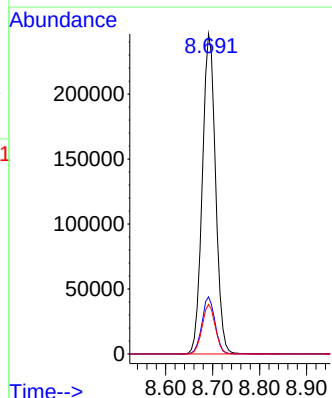
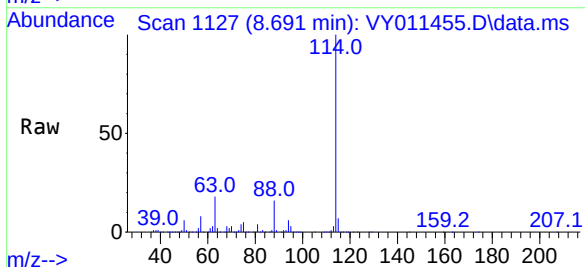
Tgt Ion: 114 Resp: 481311

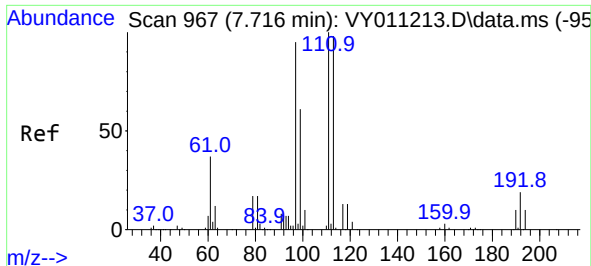
Ion Ratio Lower Upper

114 100

63 17.8 0.0 43.2

88 15.5 0.0 31.8

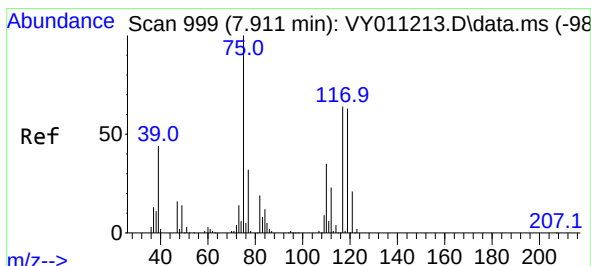
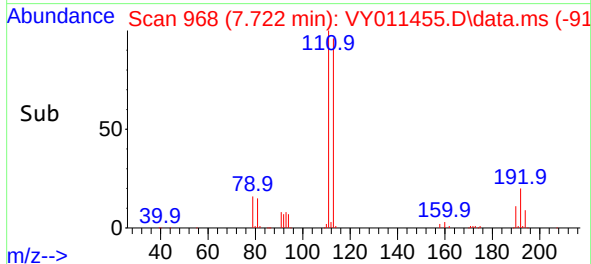
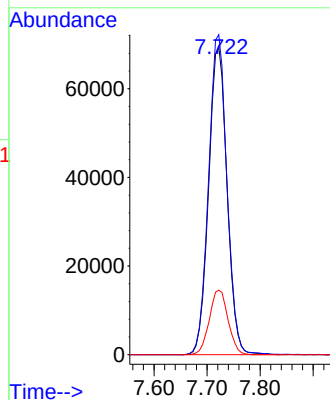
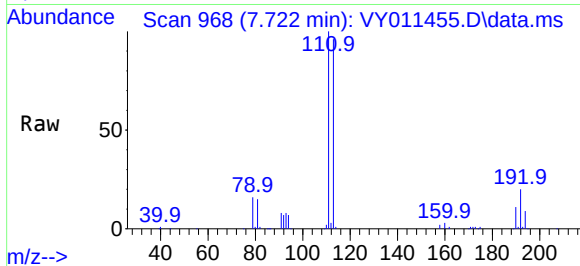




#35
 Dibromofluoromethane
 Concen: 62.099 ug/l
 RT: 7.722 min Scan# 90
 Delta R.T. 0.012 min
 Lab File: VY011455.D
 Acq: 15 Nov 2022 14:06

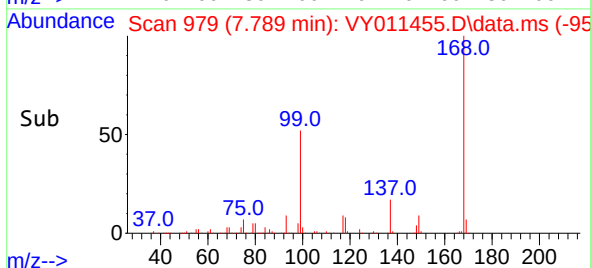
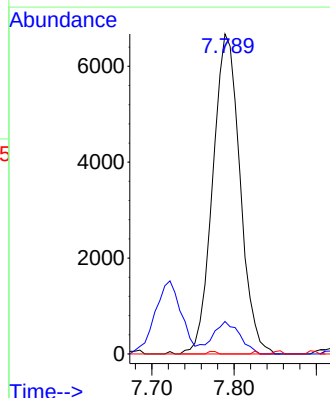
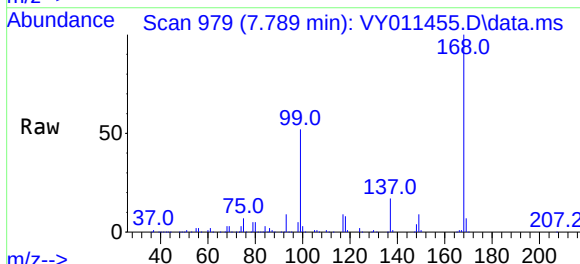
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 AUD-1731

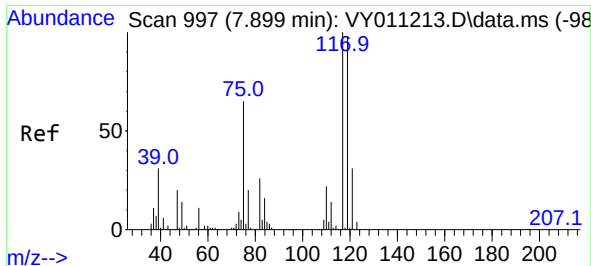
Tgt Ion:113 Resp: 167505
 Ion Ratio Lower Upper
 113 100
 111 104.0 82.6 124.0
 192 21.3 17.6 26.4



#36
 1,1-Dichloropropene
 Concen: 3.669 ug/l
 RT: 7.789 min Scan# 979
 Delta R.T. -0.128 min
 Lab File: VY011455.D
 Acq: 15 Nov 2022 14:06

Tgt Ion: 75 Resp: 15361
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.1 51.2#
 77 0.0 24.4 36.6#

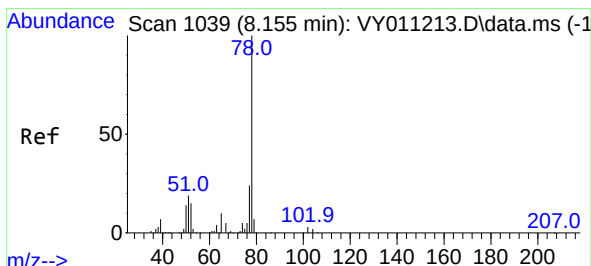
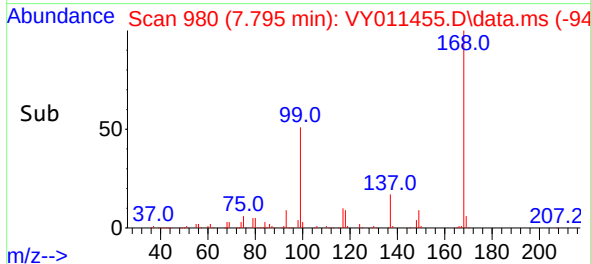
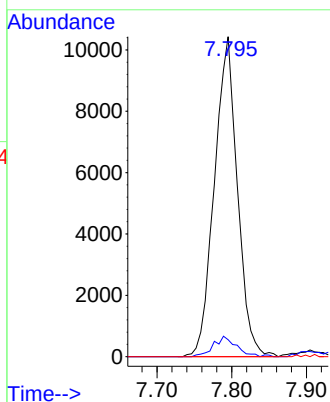
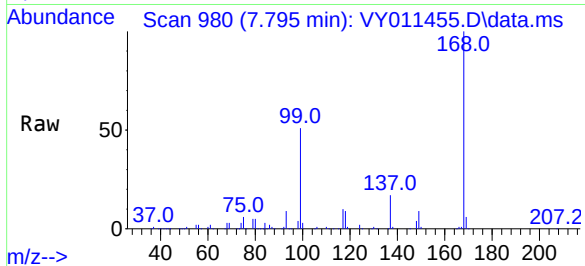




#38
Carbon Tetrachloride
Concen: 4.904 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

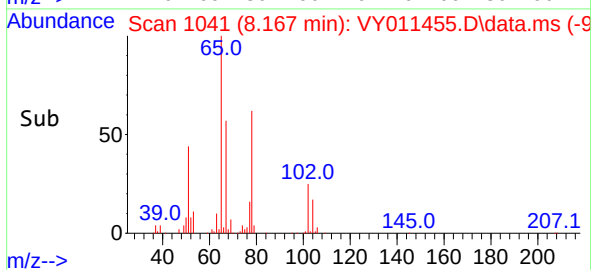
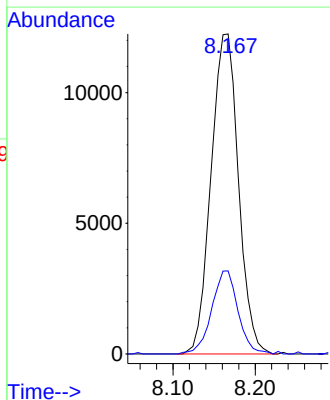
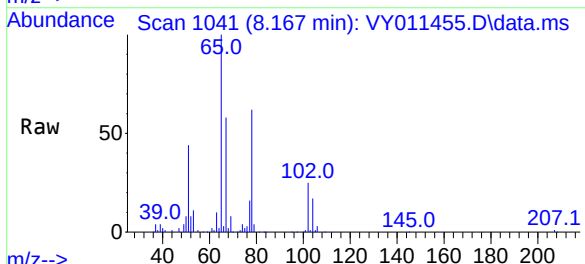
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

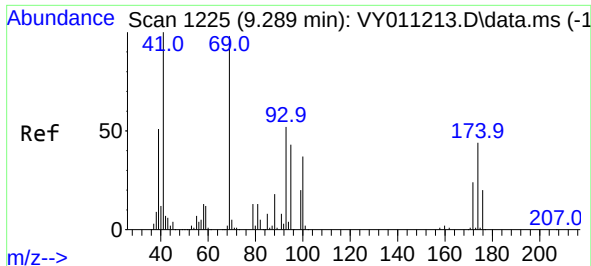
Tgt Ion:117 Resp: 22333
Ion Ratio Lower Upper
117 100
119 5.3 77.9 116.9#
121 0.0 24.8 37.2#



#40
Benzene
Concen: 2.268 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.012 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 78 Resp: 28358
Ion Ratio Lower Upper
78 100
77 25.9 20.4 30.6

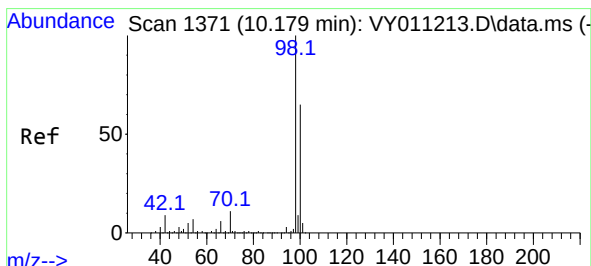
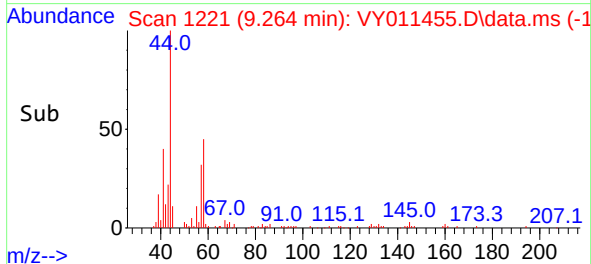
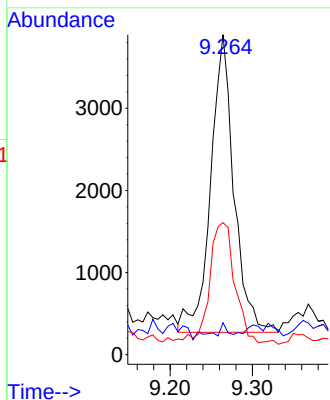
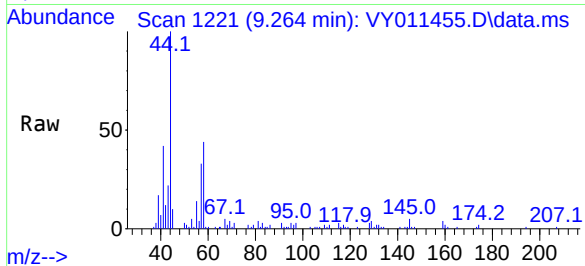




#48
Methyl methacrylate
Concen: 4.381 ug/l
RT: 9.264 min Scan# 11
Delta R.T. -0.025 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

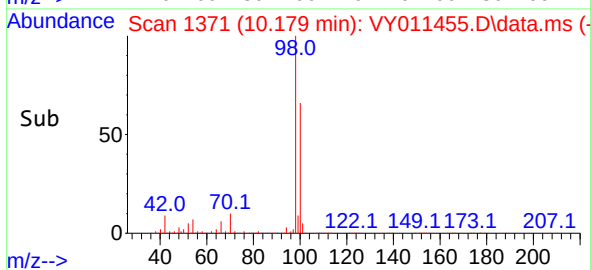
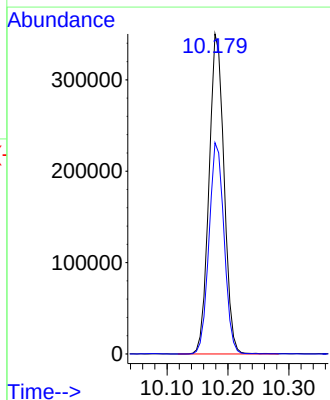
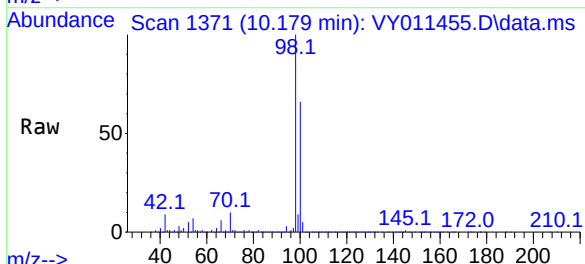
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

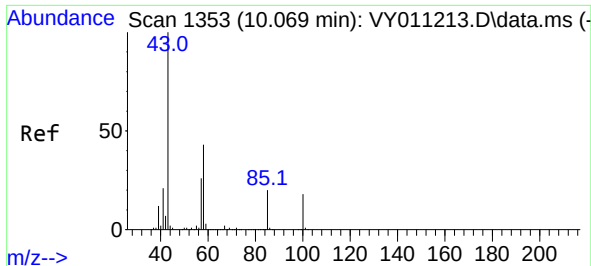
Tgt Ion: 41 Resp: 7142
Ion Ratio Lower Upper
41 100
69 0.9 58.2 87.2#
39 42.3 47.4 71.0#



#50
Toluene-d8
Concen: 58.249 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 98 Resp: 600247
Ion Ratio Lower Upper
98 100
100 66.2 50.2 75.2

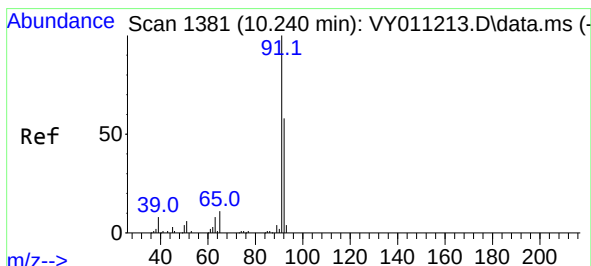
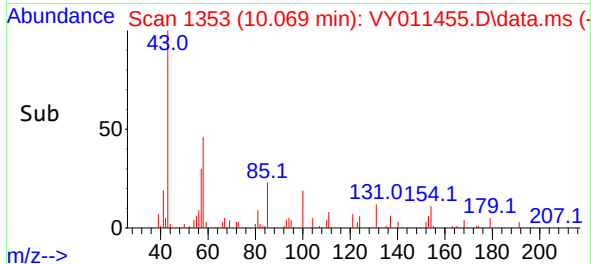
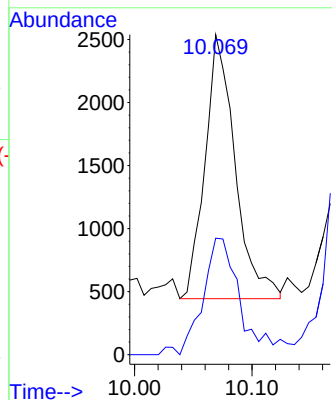
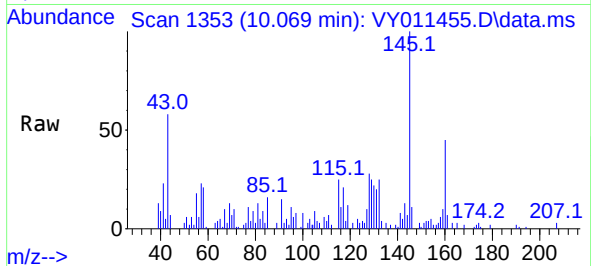




#51
4-Methyl-2-Pentanone
Concen: 1.910 ug/l
RT: 10.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

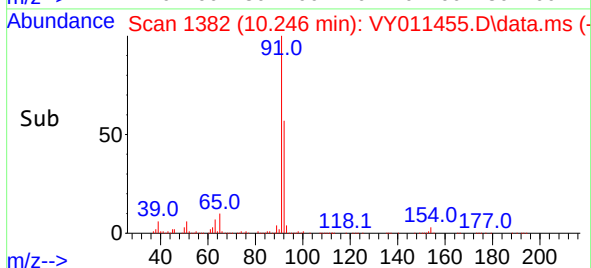
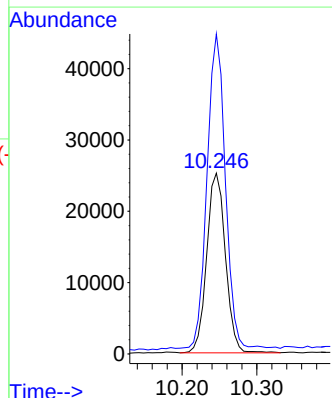
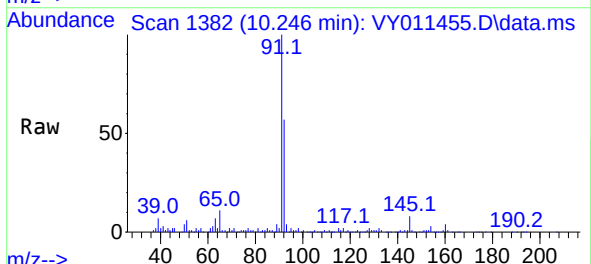
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

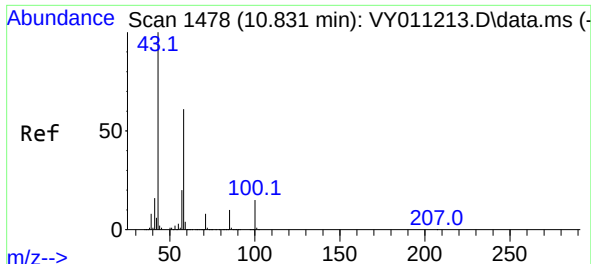
Tgt Ion: 43 Resp: 3726
Ion Ratio Lower Upper
43 100
58 56.0 28.1 42.1#



#52
Toluene
Concen: 5.478 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 92 Resp: 43729
Ion Ratio Lower Upper
92 100
91 170.5 142.6 213.8





#59

2-Hexanone

Concen: 1.771 ug/l

RT: 10.831 min Scan# 1478

Delta R.T. 0.000 min

Lab File: VY011455.D

Acq: 15 Nov 2022 14:06

Instrument :

MSVOA_Y

ClientSampleId :

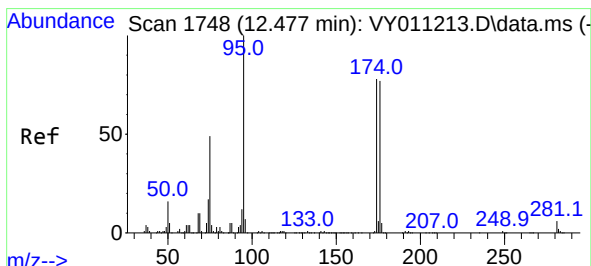
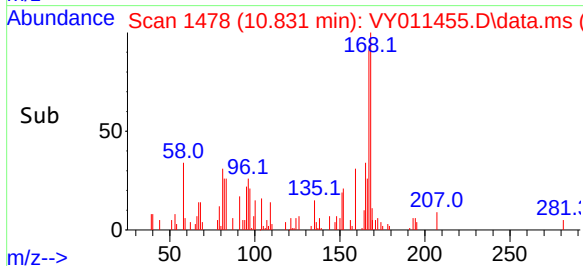
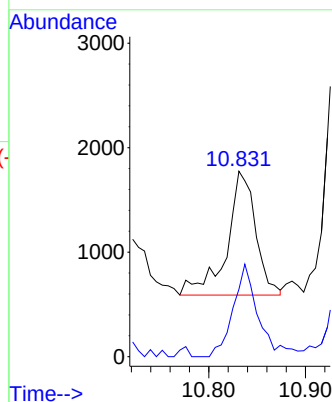
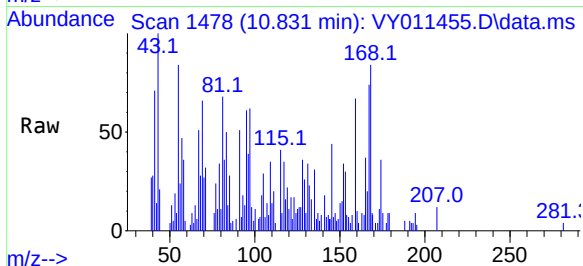
AUD-1731

Tgt Ion: 43 Resp: 2447

Ion Ratio Lower Upper

43 100

58 65.6 24.4 73.4



#62

4-Bromofluorobenzene

Concen: 54.627 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY011455.D

Acq: 15 Nov 2022 14:06

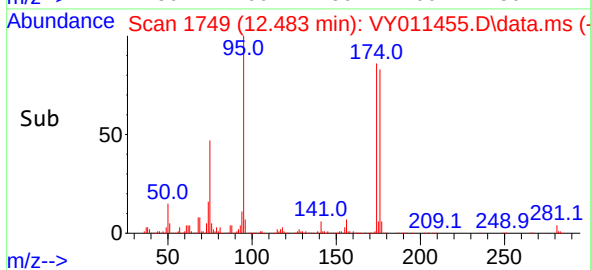
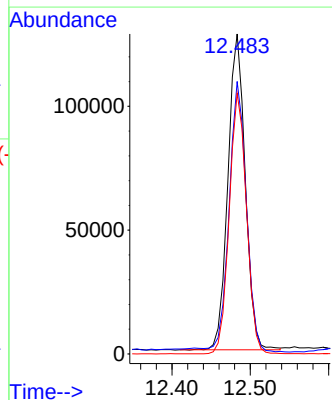
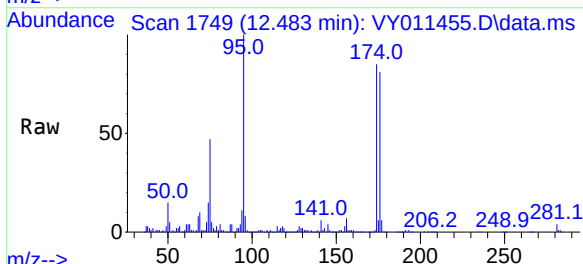
Tgt Ion: 95 Resp: 196343

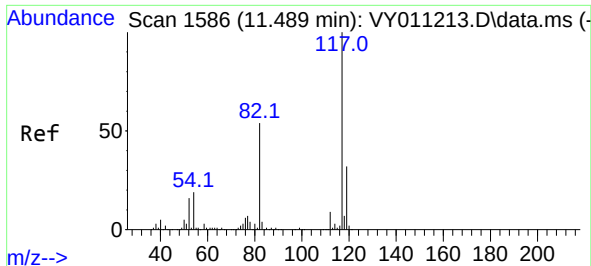
Ion Ratio Lower Upper

95 100

174 85.4 0.0 177.0

176 81.7 0.0 175.8

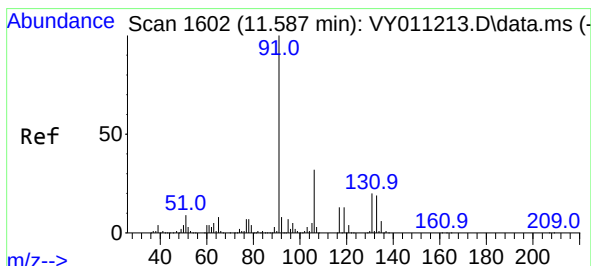
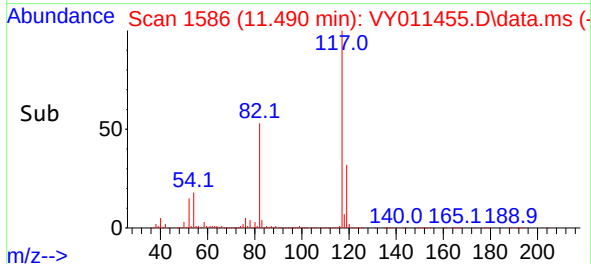
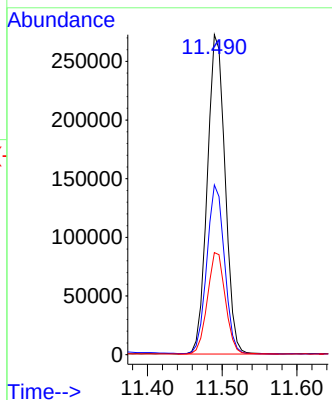
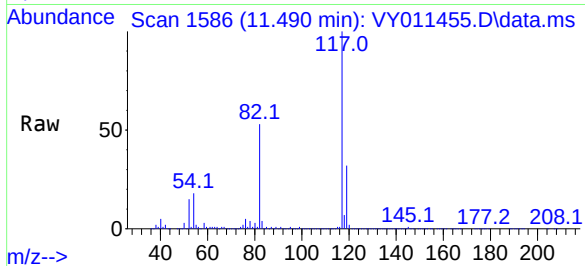




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1170
Delta R.T. -0.001 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

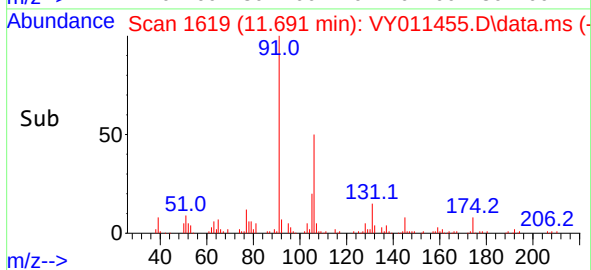
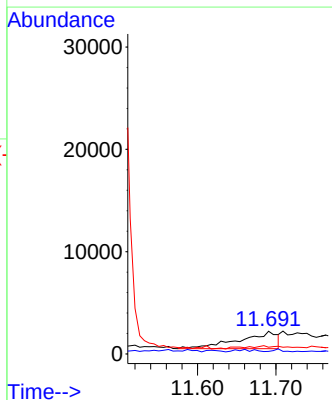
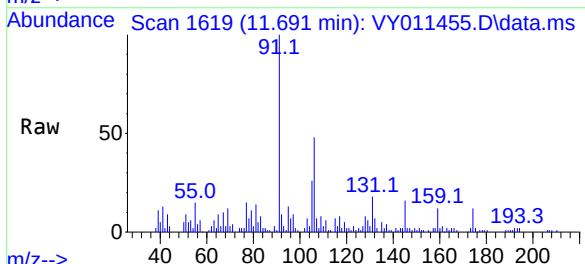
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

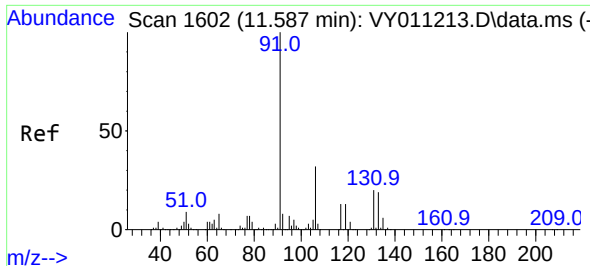
Tgt Ion:117 Resp: 449931
Ion Ratio Lower Upper
117 100
82 52.9 43.0 64.4
119 31.8 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 1.680 ug/l
RT: 11.691 min Scan# 1619
Delta R.T. 0.104 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion:131 Resp: 5661
Ion Ratio Lower Upper
131 100
133 3.6 47.9 143.6#
119 0.0 30.8 92.3#

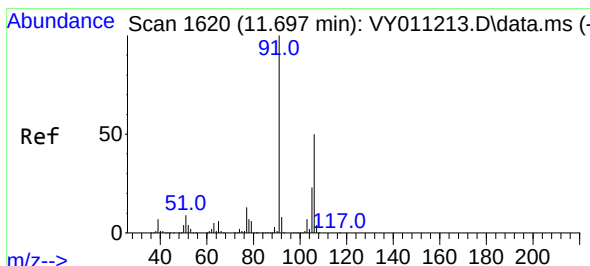
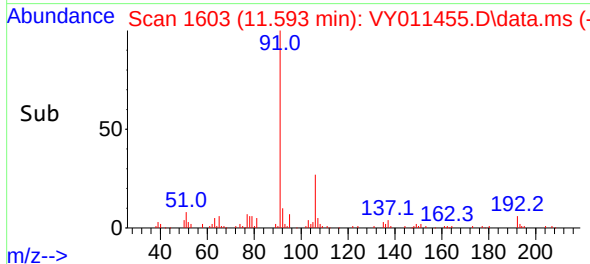
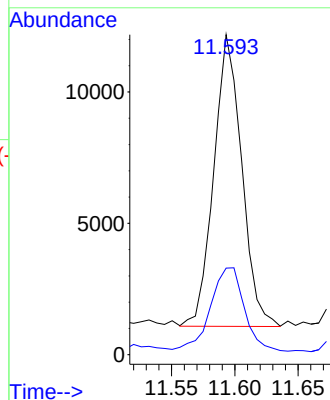
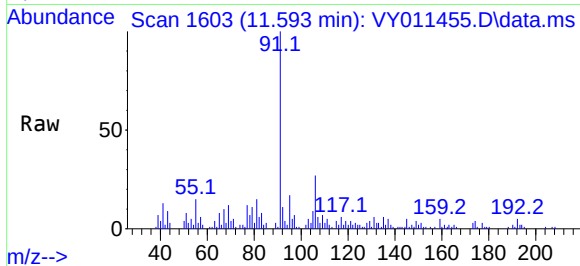




#67
Ethyl Benzene
Concen: 1.084 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.000 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

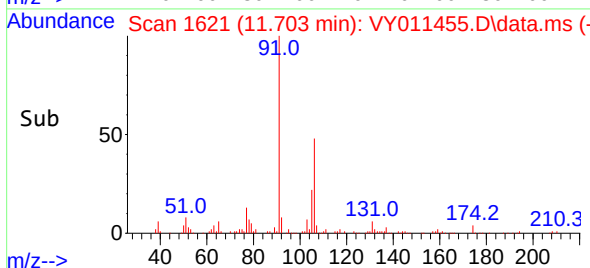
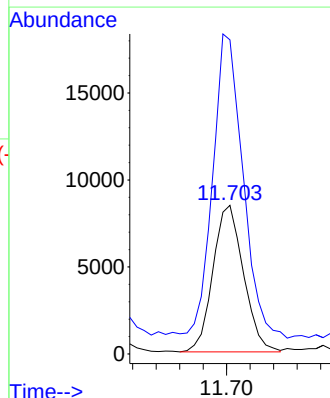
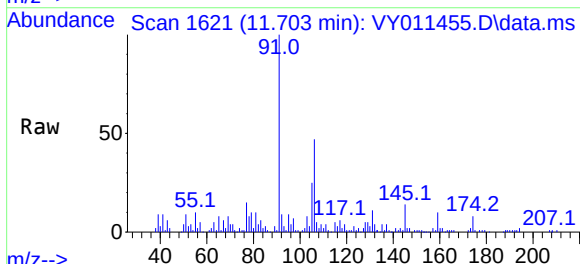
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

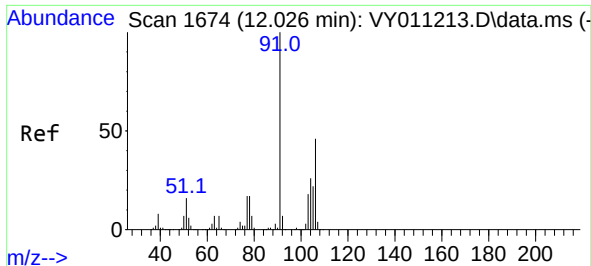
Tgt Ion: 91 Resp: 17053
Ion Ratio Lower Upper
91 100
106 28.3 24.5 36.7



#68
m/p-Xylenes
Concen: 2.468 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.000 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion:106 Resp: 15223
Ion Ratio Lower Upper
106 100
91 201.4 166.6 249.8

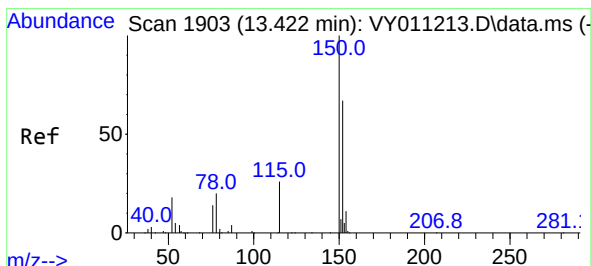
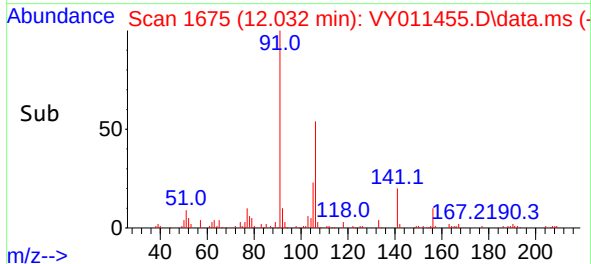
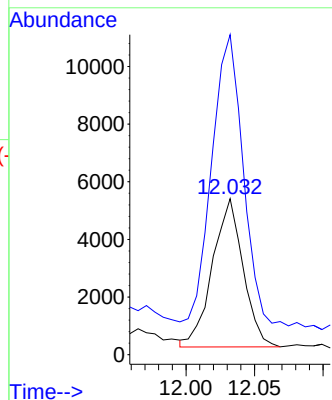
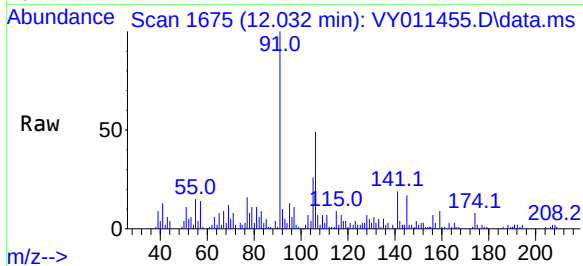




#69
o-Xylene
Concen: 1.376 ug/l
RT: 12.032 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

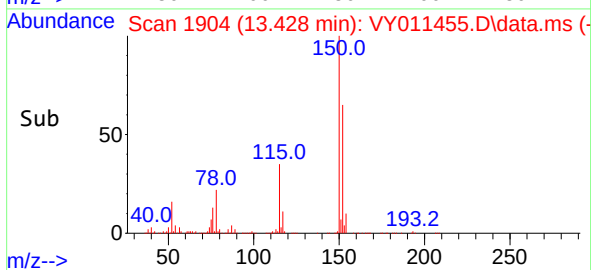
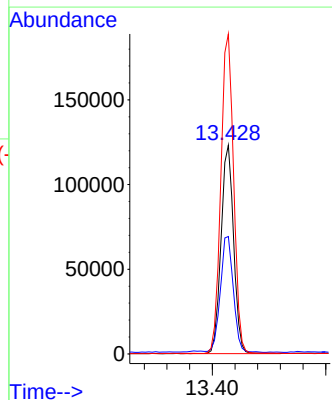
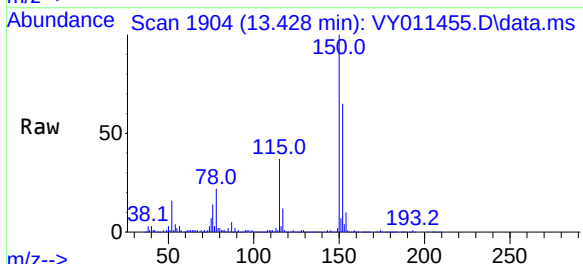
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

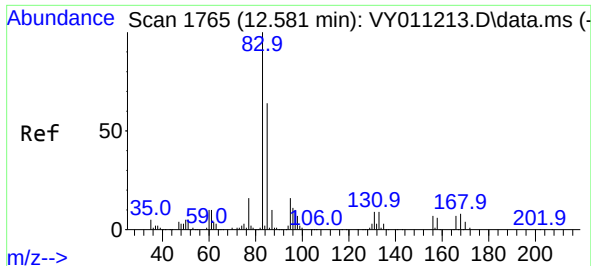
Tgt Ion:106 Resp: 8008
Ion Ratio Lower Upper
106 100
91 210.1 110.3 331.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion:152 Resp: 189941
Ion Ratio Lower Upper
152 100
115 57.2 28.2 84.7
150 155.2 0.0 347.6

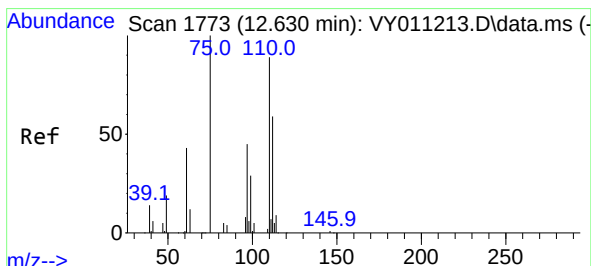
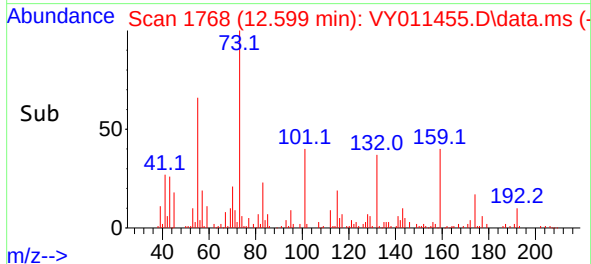
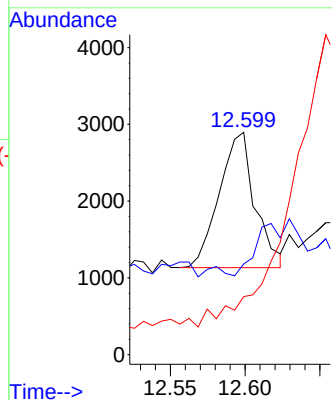
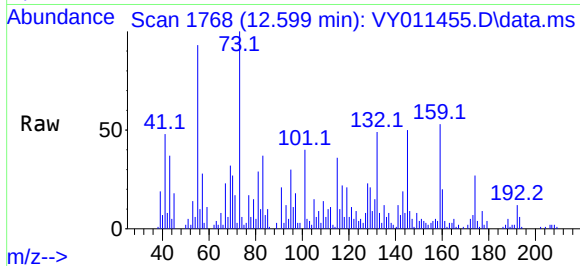




#75
1,1,2-Tetrachloroethane
Concen: 1.161 ug/l
RT: 12.599 min Scan# 1768
Delta R.T. 0.018 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

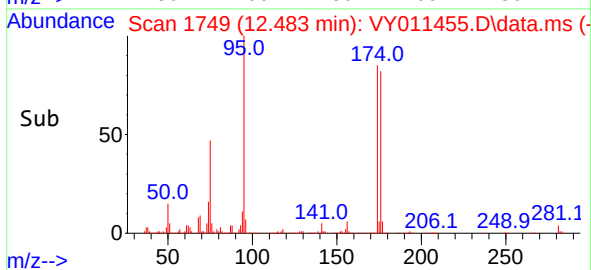
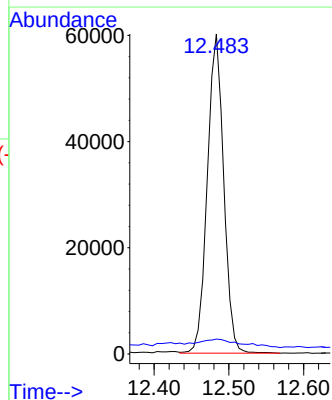
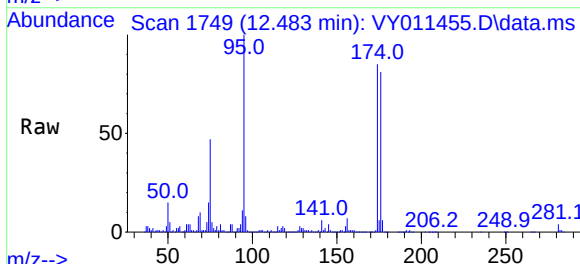
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

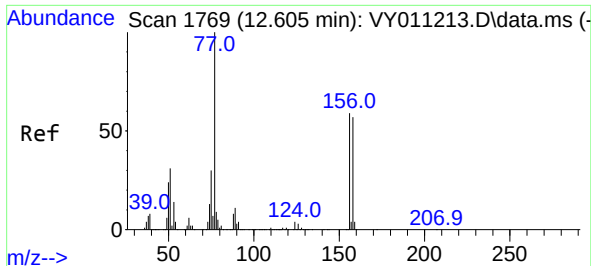
Tgt Ion: 83 Resp: 2929
Ion Ratio Lower Upper
83 100
131 0.0 5.6 16.8#
85 0.0 32.3 96.8#



#76
1,2,3-Trichloropropane
Concen: 41.705 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 75 Resp: 91693
Ion Ratio Lower Upper
75 100
77 6.1 0.0 0.0#

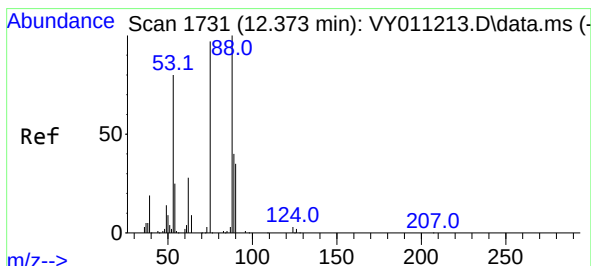
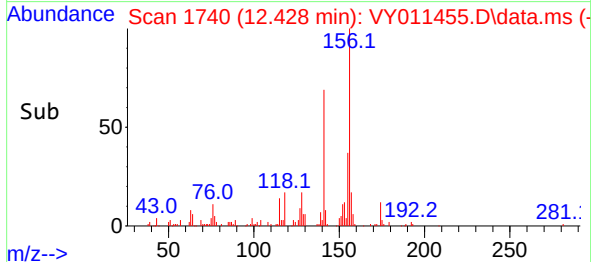
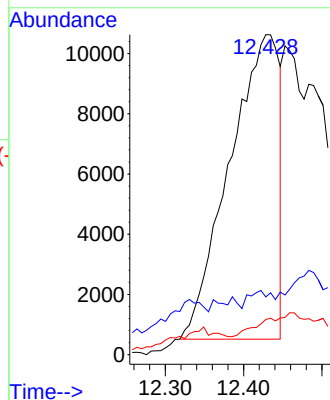
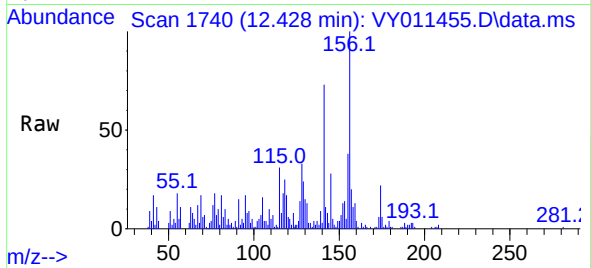




#77
Bromobenzene
Concen: 14.235 ug/l
RT: 12.428 min Scan# 1740
Delta R.T. -0.177 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

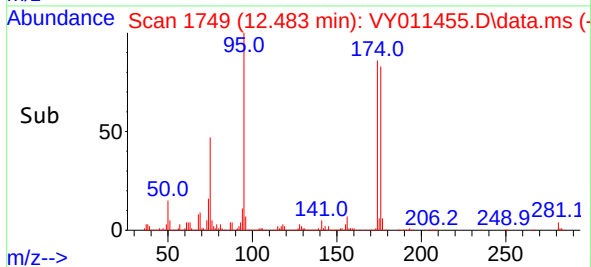
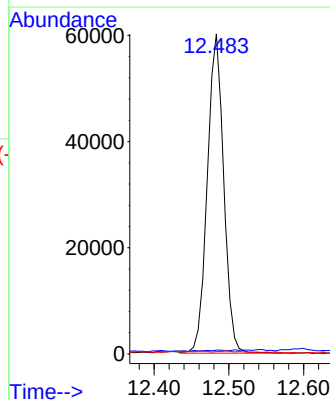
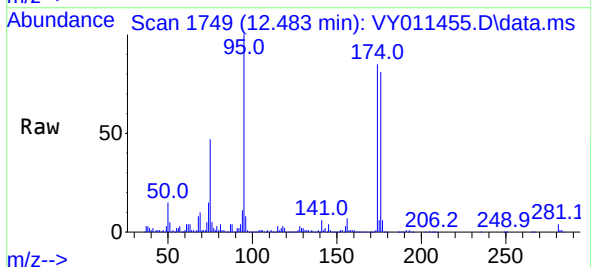
Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

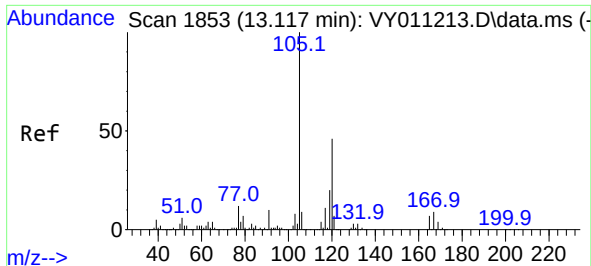
Tgt Ion:156 Resp: 44688
Ion Ratio Lower Upper
156 100
77 3.7 95.5 286.4#
158 2.6 48.0 144.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 100.246 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion: 75 Resp: 91693
Ion Ratio Lower Upper
75 100
53 0.6 85.3 127.9#
89 0.0 37.0 55.4#

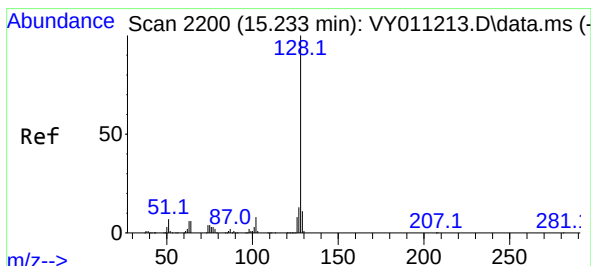
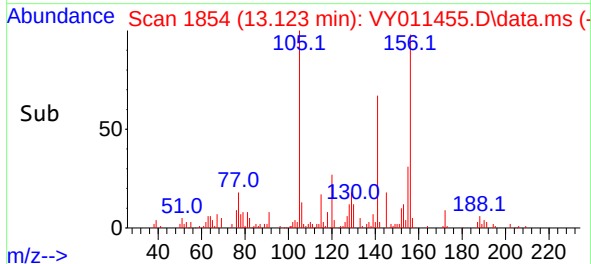
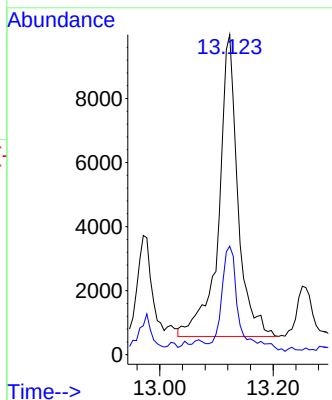
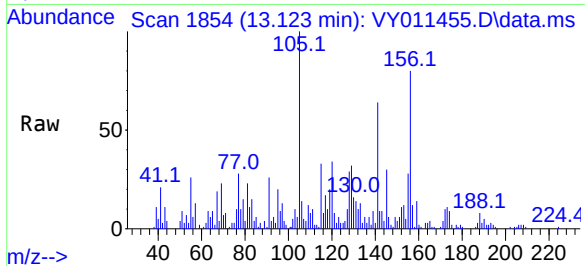




#84
1,2,4-Trimethylbenzene
Concen: 2.034 ug/l
RT: 13.123 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Instrument :
MSVOA_Y
ClientSampleId :
AUD-1731

Tgt Ion:105 Resp: 22105
Ion Ratio Lower Upper
105 100
120 30.9 22.3 66.9



#95
Naphthalene
Concen: 4.795 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY011455.D
Acq: 15 Nov 2022 14:06

Tgt Ion:128 Resp: 11688
Ion Ratio Lower Upper
128 100
127 15.7 11.0 16.4
129 17.3 8.4 12.6#

