

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062722\
 Data File : VY009350.D
 Acq On : 27 Jun 2022 18:02
 Operator : KP/MD
 Sample : N3434-04
 Misc : 6.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 B2204-35

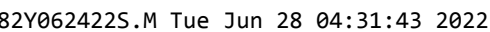
Quant Time: Jun 28 04:31:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062422S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 25 07:08:46 2022
 Response via : Initial Calibration

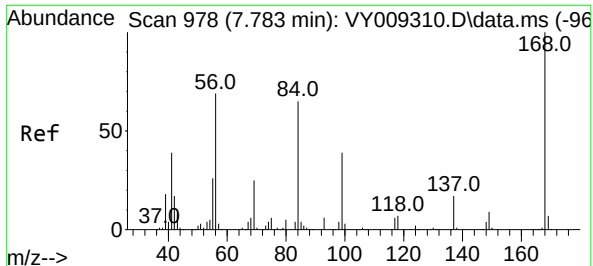
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.783	168	119010	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	191391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	140393	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	41792	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	48380	54.377	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 108.760%	
35) Dibromofluoromethane	7.704	113	52794	51.105	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.220%	
50) Toluene-d8	10.173	98	137396	44.817	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 89.640%	
62) 4-Bromofluorobenzene	12.477	95	49122	33.387	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 66.780%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.509	74	627	1.022	ug/l	58
11) Tert butyl alcohol	4.948	59	5988	Below Cal	#	78
13) Acrolein	3.686	56	2085	18.925	ug/l #	1
15) Acrylonitrile	5.229	53	3764	11.140	ug/l #	43
16) Acetone	3.936	43	134495	442.044	ug/l	98
18) Methyl Acetate	4.466	43	51132	60.361	ug/l	97
20) Methylene Chloride	4.704	84	26326	17.924	ug/l #	89
25) 2-Butanone	6.978	43	33612	73.462	ug/l	95
29) Tetrahydrofuran	7.338	42	762	2.595	ug/l #	47
31) Cyclohexane	7.771	56	20772	9.652	ug/l #	68
36) 1,1-Dichloropropene	7.783	75	9180	5.295	ug/l #	49
37) Ethyl Acetate	7.070	43	22114	22.459	ug/l	98
38) Carbon Tetrachloride	7.783	117	10930	6.131	ug/l #	16
39) Methylcyclohexane	9.179	83	9734	4.506	ug/l #	77
41) Methacrylonitrile	7.350	41	1378	2.599	ug/l #	100
43) Isopropyl Acetate	8.265	43	4277	2.351	ug/l #	52
48) Methyl methacrylate	9.289	41	2530	3.129	ug/l #	68
51) 4-Methyl-2-Pentanone	10.106	43	4286	4.663	ug/l #	61
52) Toluene	10.240	92	19714	6.237	ug/l	98
53) t-1,3-Dichloropropene	10.569	75	2717	1.520	ug/l #	57
59) 2-Hexanone	10.801	43	1536	2.403	ug/l #	24
67) Ethyl Benzene	11.587	91	44021	8.950	ug/l	96
68) m/p-Xylenes	11.697	106	53433	27.651	ug/l	99
69) o-Xylene	12.026	106	18648	10.284	ug/l	97
70) Styrene	12.038	104	7503	2.493	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.489	83	1383	2.546	ug/l #	1
76) 1,2,3-Trichloropropane	12.477	75	35179	86.743	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	35179	171.711	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.117	105	2996	1.252	ug/l	97

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

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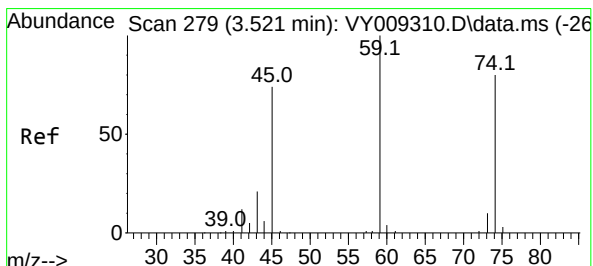
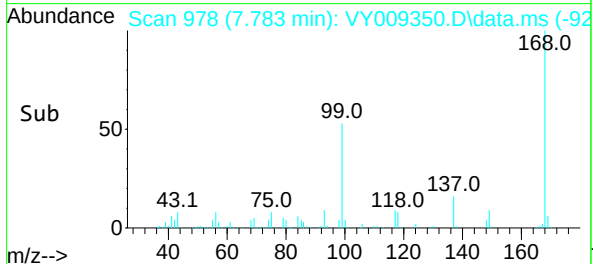
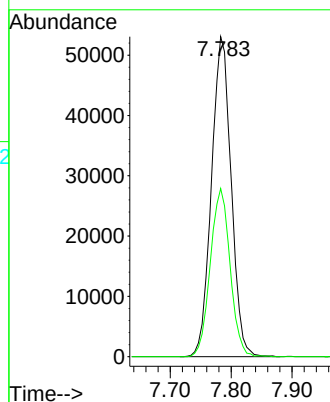
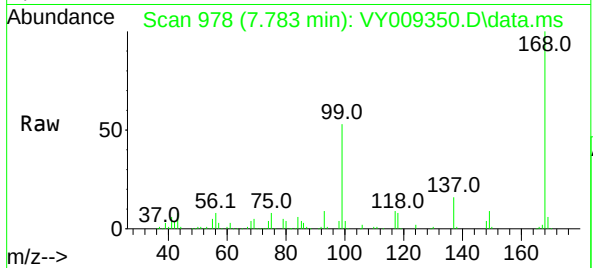




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

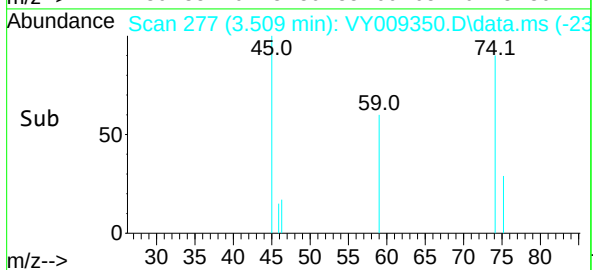
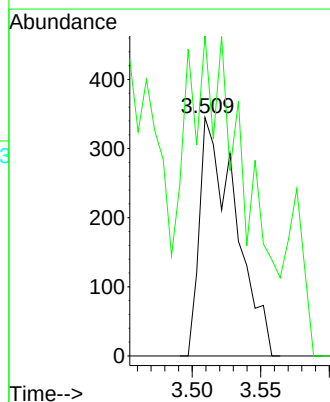
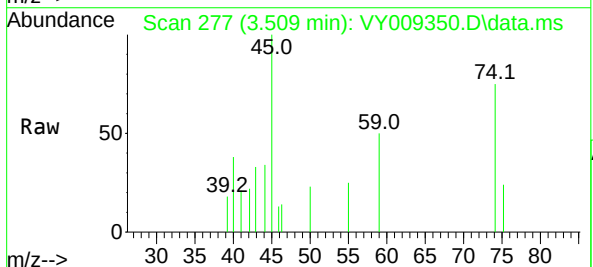
Instrument :
MSVOA_Y
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B2204-35

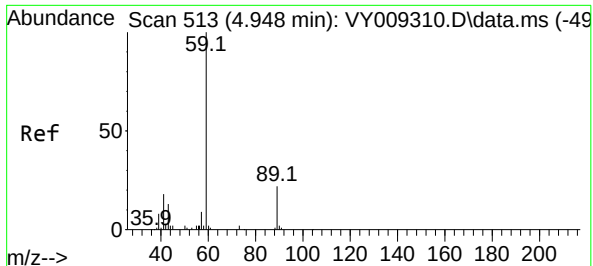
Tgt Ion:168 Resp: 119010
Ion Ratio Lower Upper
168 100
99 52.5 42.1 63.1



#8
Diethyl Ether
Concen: 1.022 ug/l
RT: 3.509 min Scan# 277
Delta R.T. -0.012 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 74 Resp: 627
Ion Ratio Lower Upper
74 100
45 139.6 49.1 147.4





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.948 min Scan# 513

Delta R.T. 0.000 min

Lab File: VY009350.D

Acq: 27 Jun 2022 18:02

Instrument :

MSVOA_Y

ClientSampleId :

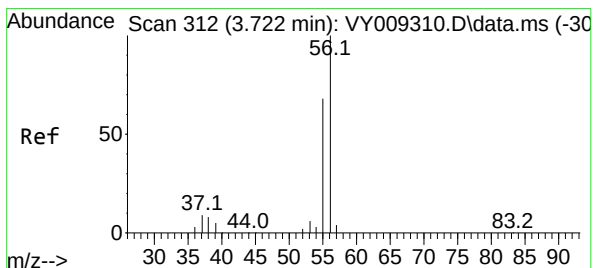
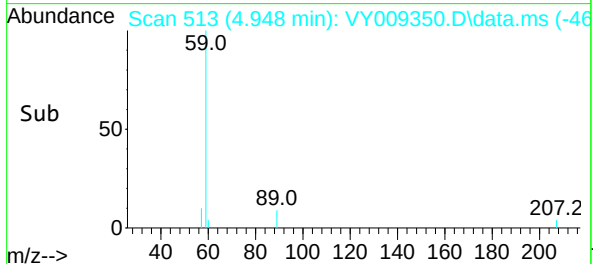
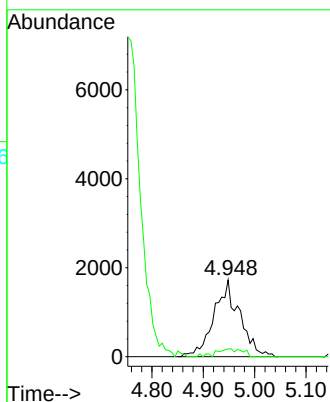
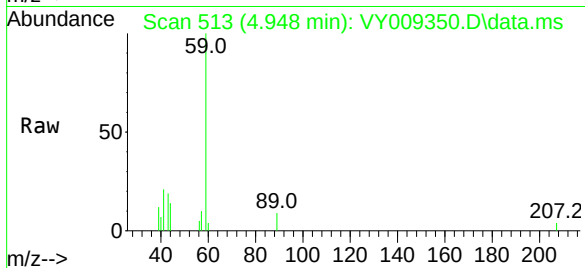
B2204-35

Tgt Ion: 59 Resp: 5988

Ion Ratio Lower Upper

59 100

57 0.0 6.3 9.5#



#13

Acrolein

Concen: 18.925 ug/l

RT: 3.686 min Scan# 306

Delta R.T. -0.036 min

Lab File: VY009350.D

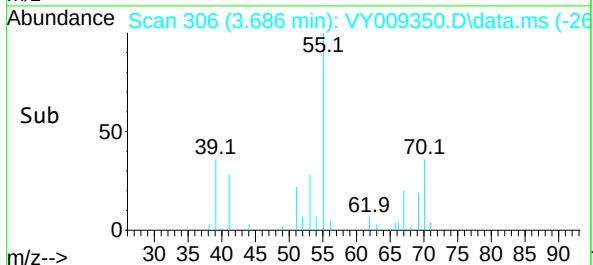
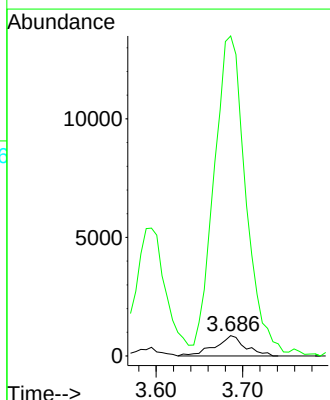
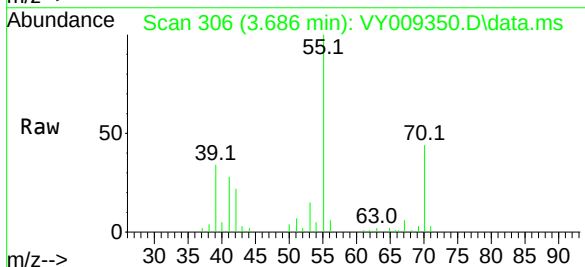
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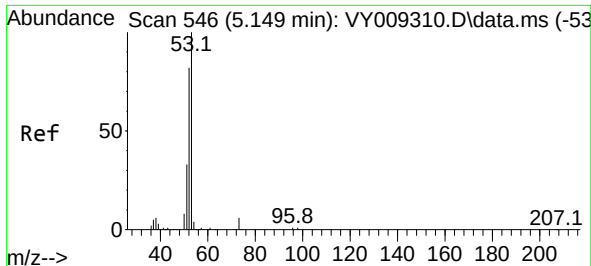
Tgt Ion: 56 Resp: 2085

Ion Ratio Lower Upper

56 100

55 1622.7 54.8 82.2#





#15

Acrylonitrile

Concen: 11.140 ug/l

RT: 5.229 min Scan# 51

Delta R.T. 0.079 min

Lab File: VY009350.D

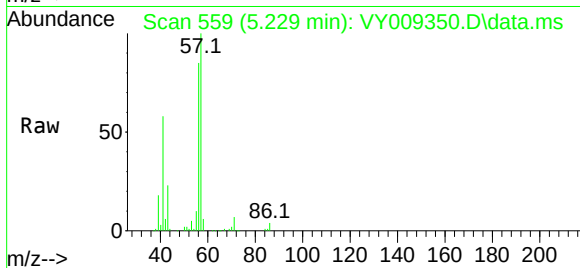
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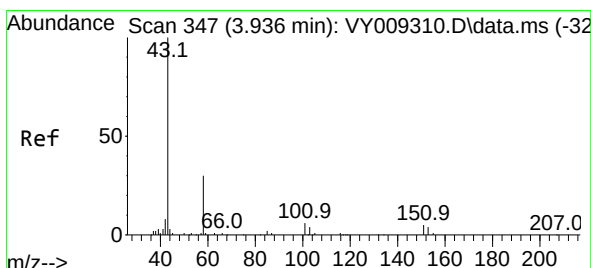
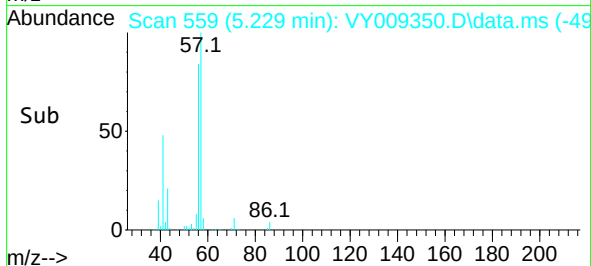
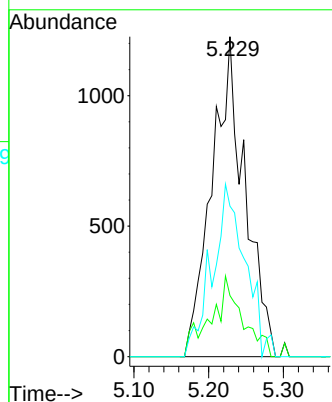
MSVOA_Y

ClientSampleId :

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Tgt Ion: 53	Resp: 3764
Ion Ratio	Lower Upper
53	100
52	21.3 65.4 98.2#
51	53.7 28.4 42.6#



#16

Acetone

Concen: 442.044 ug/l

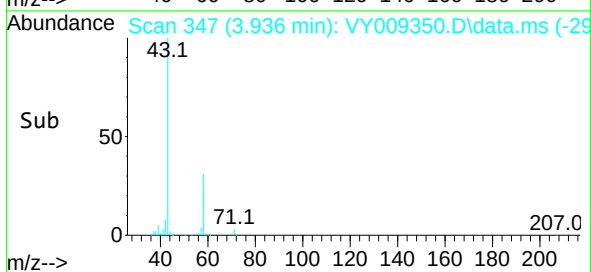
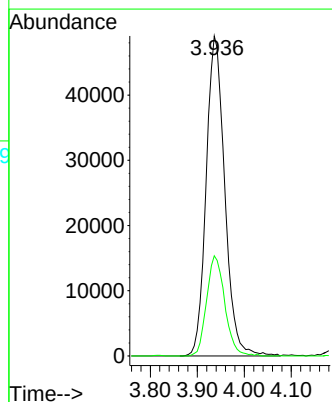
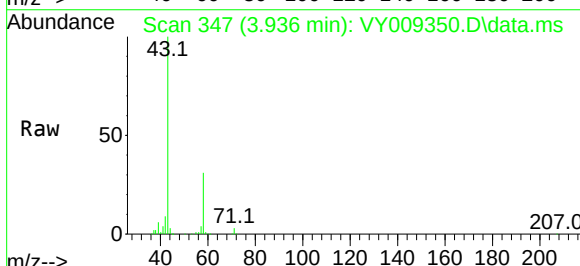
RT: 3.936 min Scan# 347

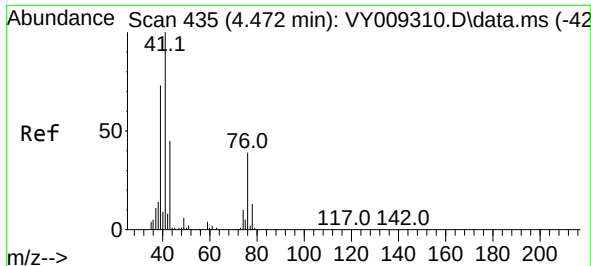
Delta R.T. 0.000 min

Lab File: VY009350.D

Acq: 27 Jun 2022 18:02

Tgt Ion: 43	Resp: 134495
Ion Ratio	Lower Upper
43	100
58	31.3 24.0 36.0

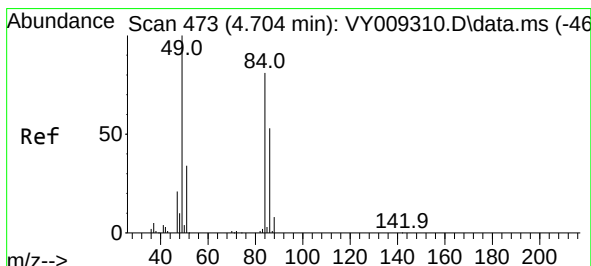
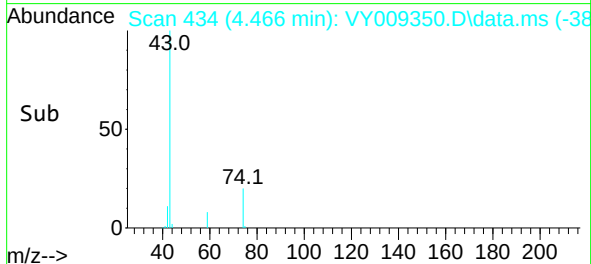
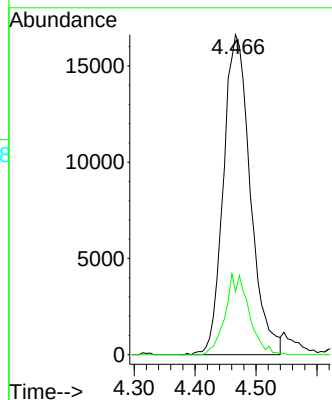
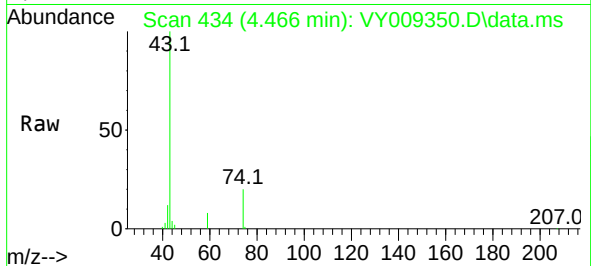




#18
Methyl Acetate
Concen: 60.361 ug/l
RT: 4.466 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

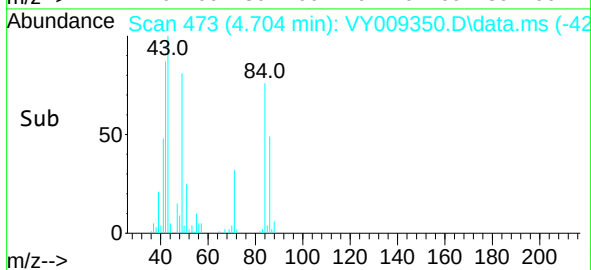
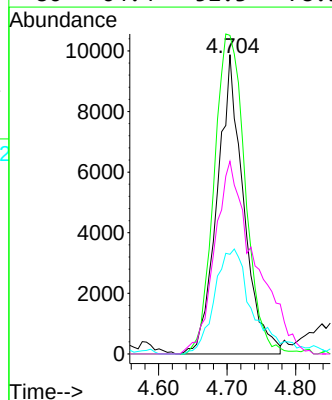
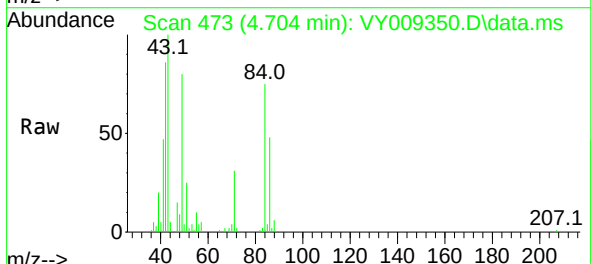
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

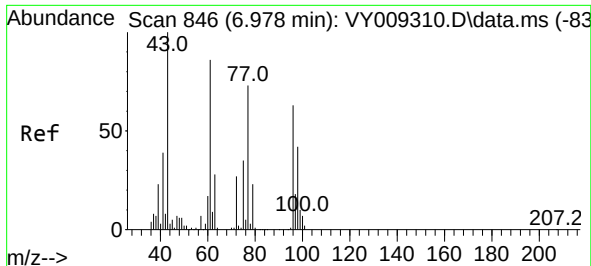
Tgt Ion: 43 Resp: 51132
Ion Ratio Lower Upper
43 100
74 22.2 18.8 28.2



#20
Methylene Chloride
Concen: 17.924 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 84 Resp: 26326
Ion Ratio Lower Upper
84 100
49 106.4 98.2 147.4
51 33.3 33.4 50.0#
86 64.4 52.3 78.5

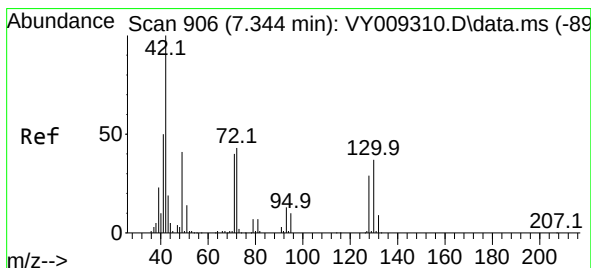
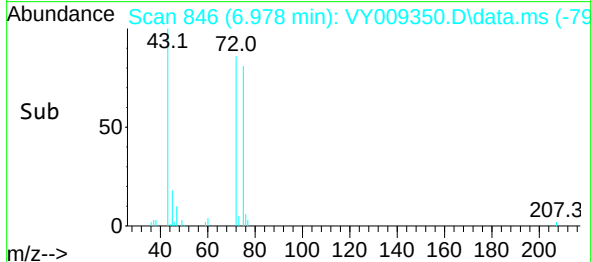
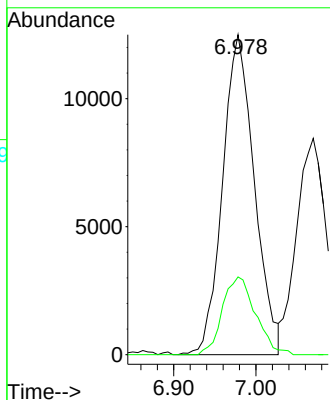
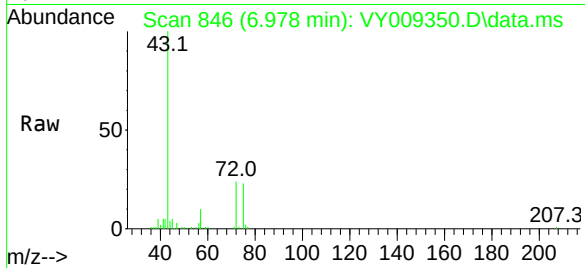




#25
2-Butanone
Concen: 73.462 ug/l
RT: 6.978 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

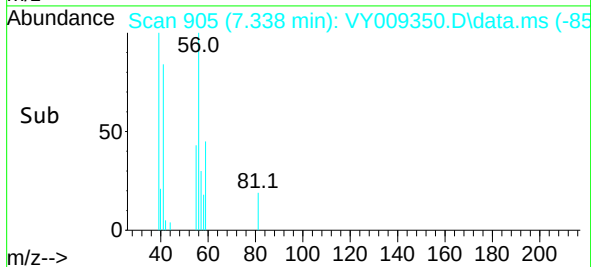
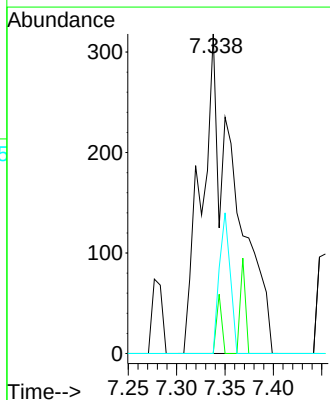
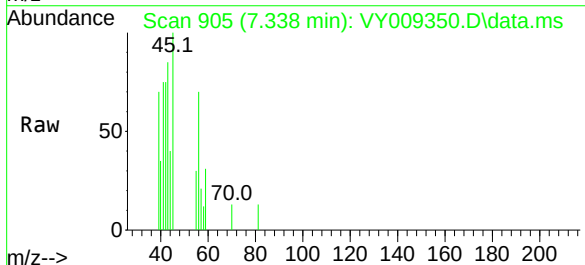
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ClientSampleId :
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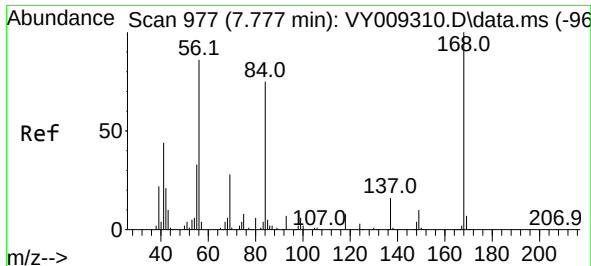
Tgt Ion: 43 Resp: 33612
Ion Ratio Lower Upper
43 100
72 24.3 21.5 32.3



#29
Tetrahydrofuran
Concen: 2.595 ug/l
RT: 7.338 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 42 Resp: 762
Ion Ratio Lower Upper
42 100
72 2.9 34.6 52.0#
71 14.3 32.7 49.1#

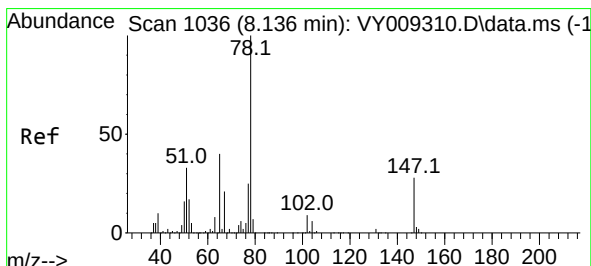
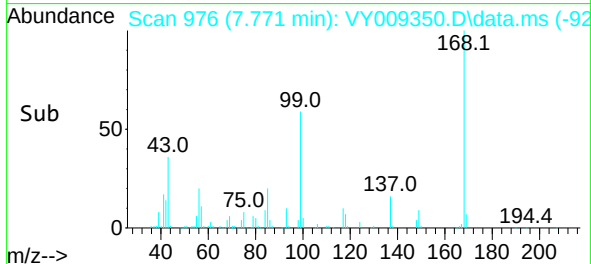
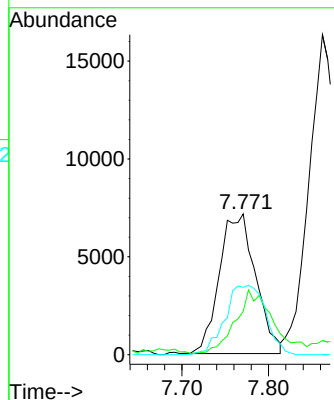
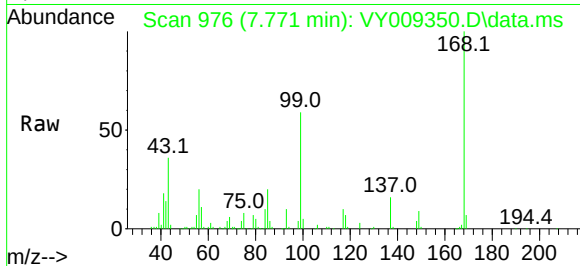




#31
Cyclohexane
Concen: 9.652 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

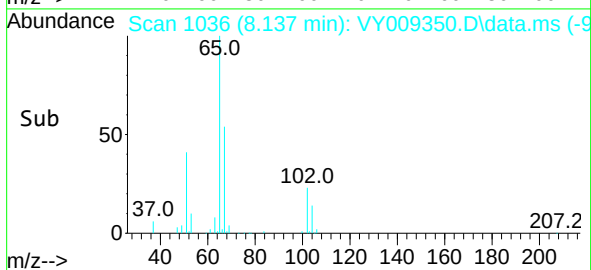
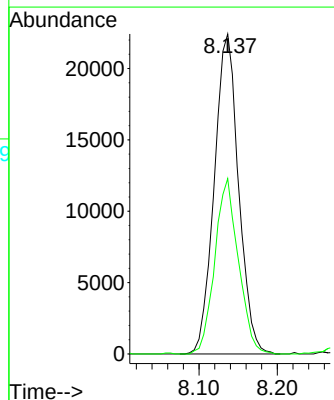
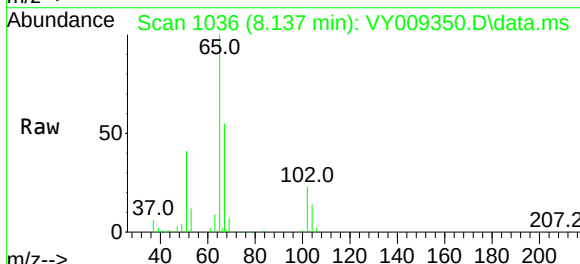
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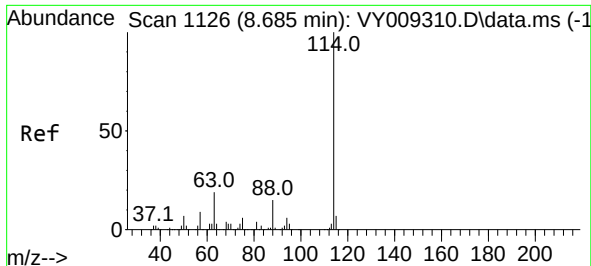
Tgt Ion: 56 Resp: 20772
Ion Ratio Lower Upper
56 100
69 29.1 26.0 39.0
84 48.2 69.5 104.3#



#33
1,2-Dichloroethane-d4
Concen: 54.377 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 65 Resp: 48380
Ion Ratio Lower Upper
65 100
67 53.1 0.0 108.4

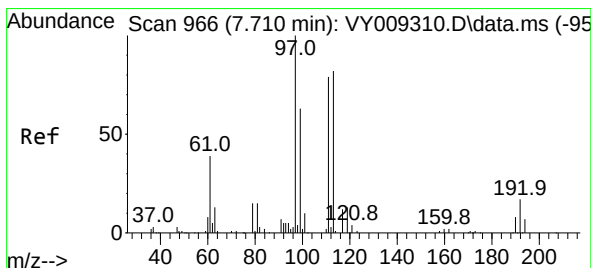
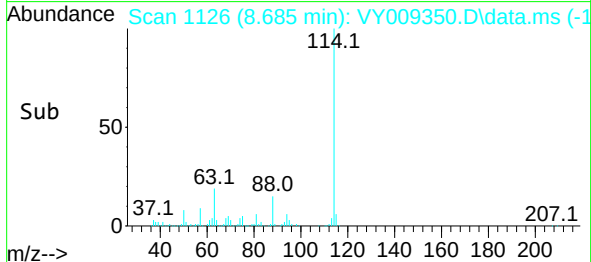
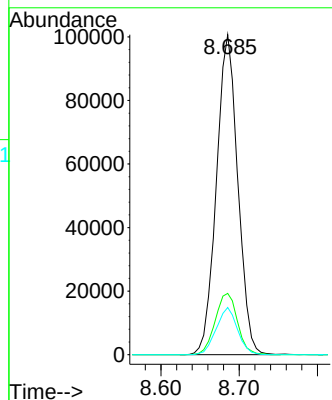
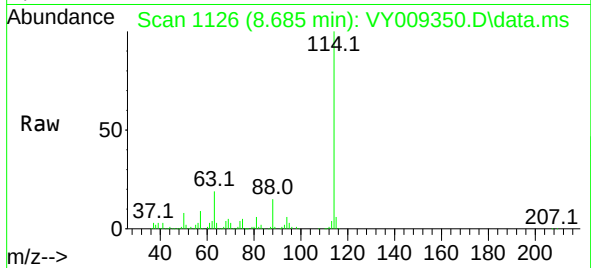




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

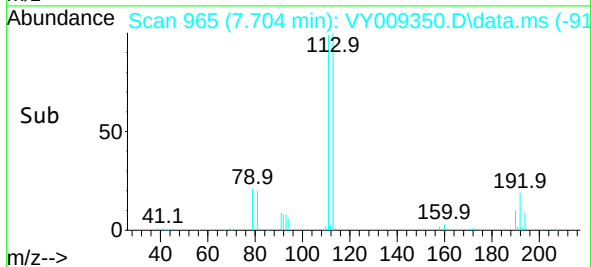
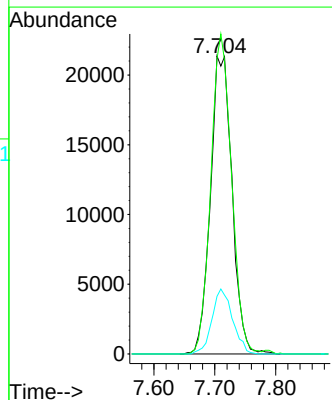
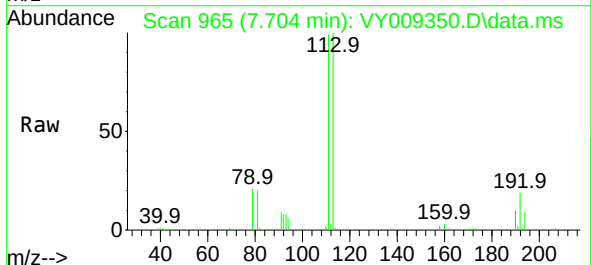
Instrument :
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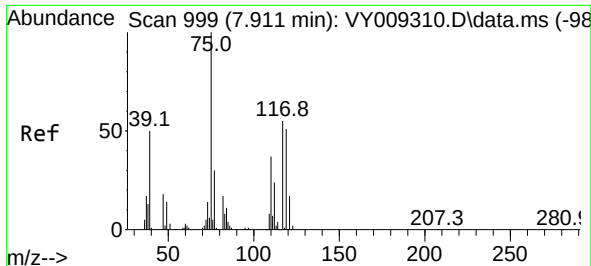
Tgt Ion:114 Resp: 191391
Ion Ratio Lower Upper
114 100
63 19.2 0.0 38.0
88 14.7 0.0 30.0



#35
Dibromofluoromethane
Concen: 51.105 ug/l
RT: 7.704 min Scan# 965
Delta R.T. -0.006 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion:113 Resp: 52794
Ion Ratio Lower Upper
113 100
111 102.7 80.6 120.8
192 20.8 16.2 24.4

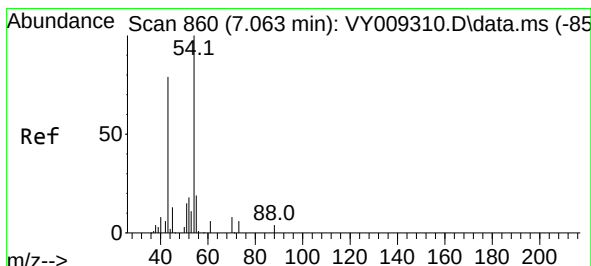
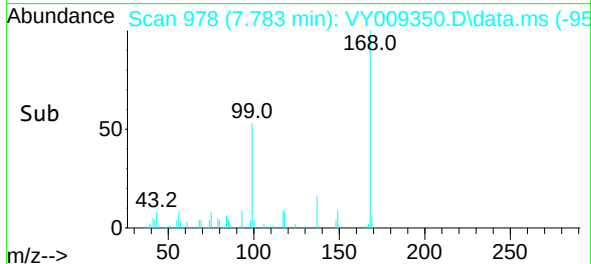
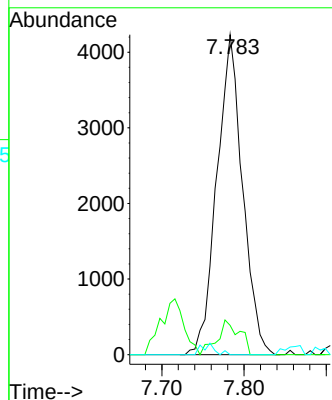
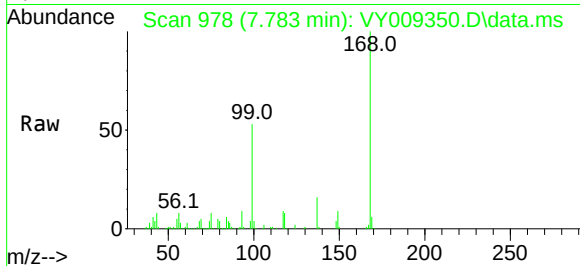




#36
1,1-Dichloropropene
Concen: 5.295 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

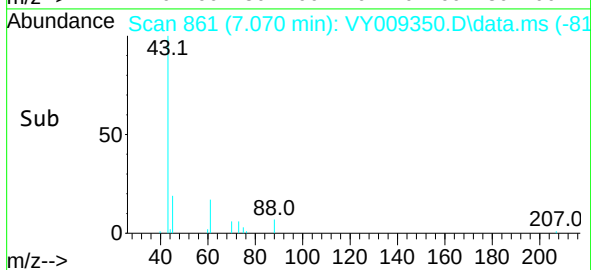
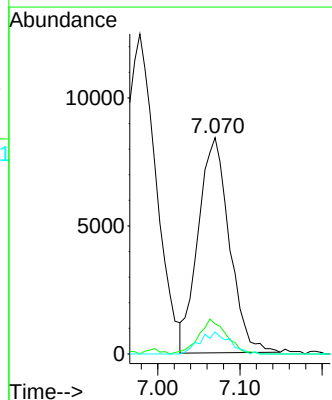
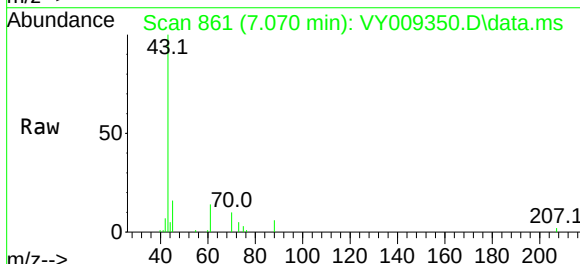
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

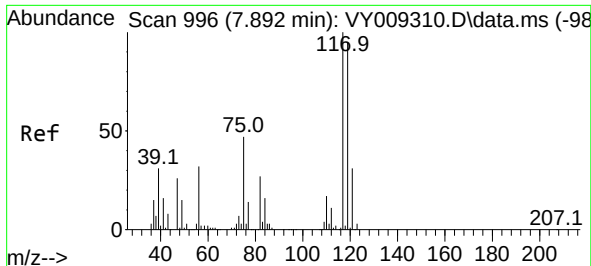
Tgt Ion: 75 Resp: 9180
Ion Ratio Lower Upper
75 100
110 9.4 18.6 56.0#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 22.459 ug/l
RT: 7.070 min Scan# 861
Delta R.T. 0.006 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 43 Resp: 22114
Ion Ratio Lower Upper
43 100
61 14.5 11.2 16.8
70 9.8 8.4 12.6

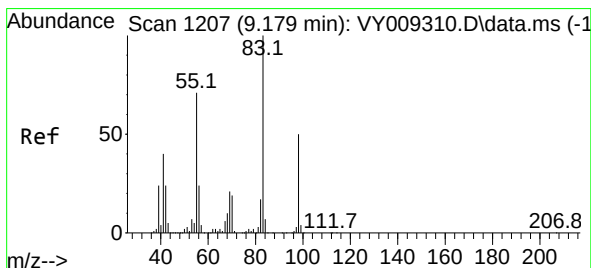
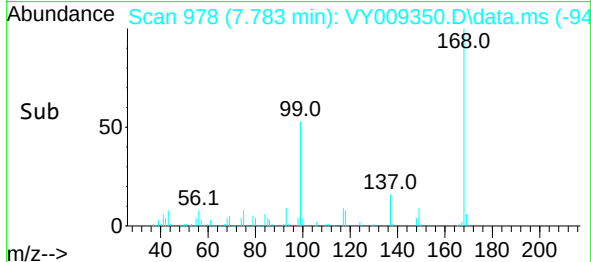
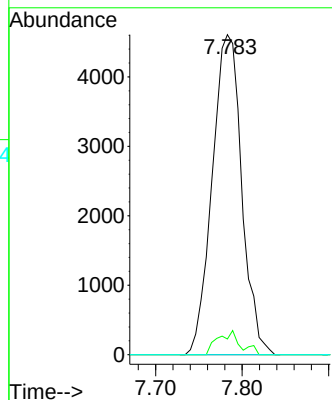
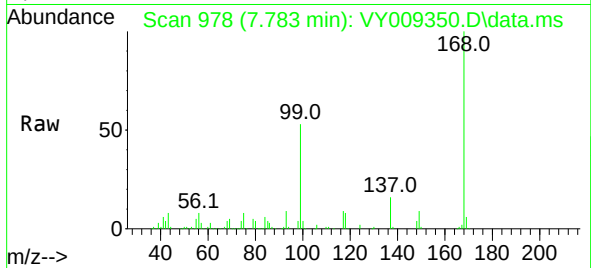




#38
Carbon Tetrachloride
Concen: 6.131 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

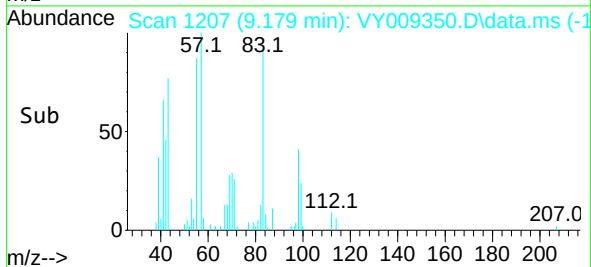
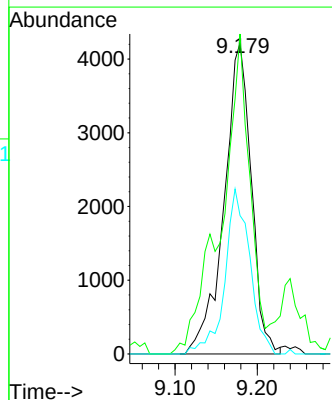
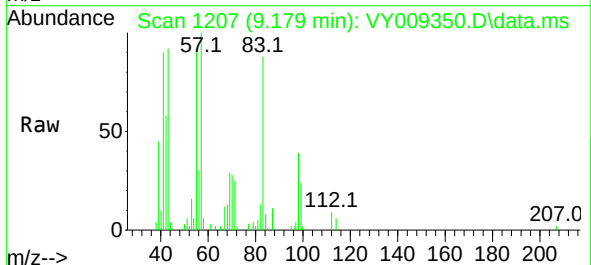
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

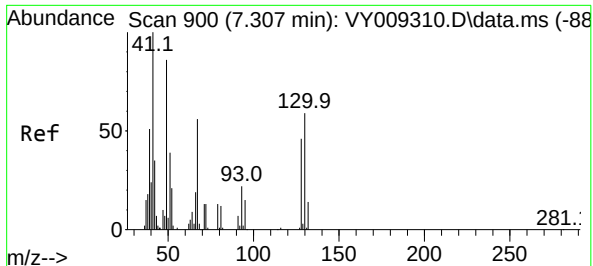
Tgt Ion:117 Resp: 10930
Ion Ratio Lower Upper
117 100
119 4.9 75.9 113.9#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 4.506 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 83 Resp: 9734
Ion Ratio Lower Upper
83 100
55 99.4 56.7 85.1#
98 44.5 39.9 59.9

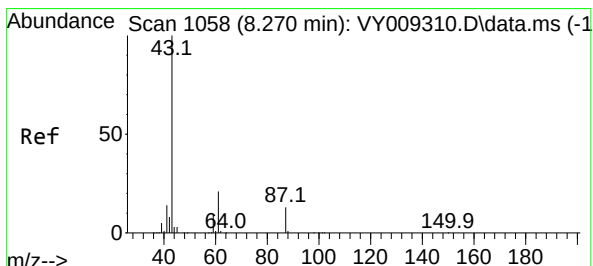
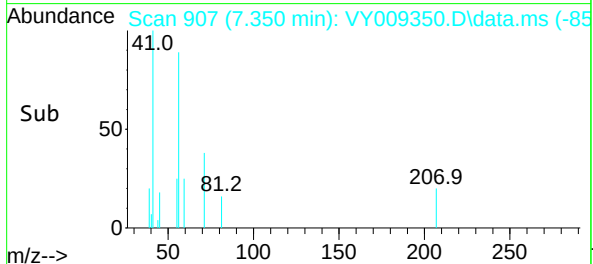
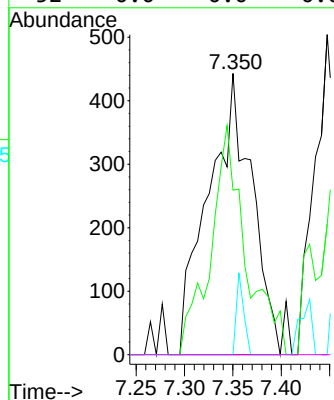
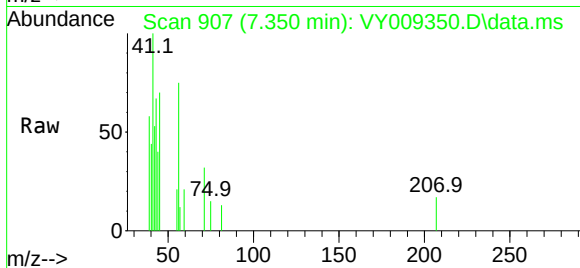




#41
Methacrylonitrile
Concen: 2.599 ug/l
RT: 7.350 min Scan# 907
Delta R.T. 0.043 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

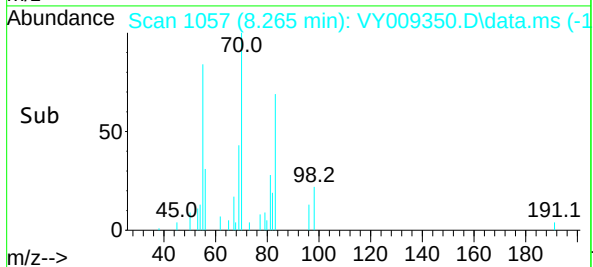
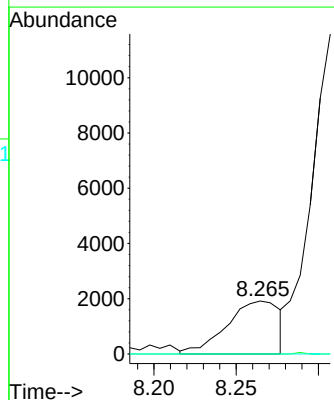
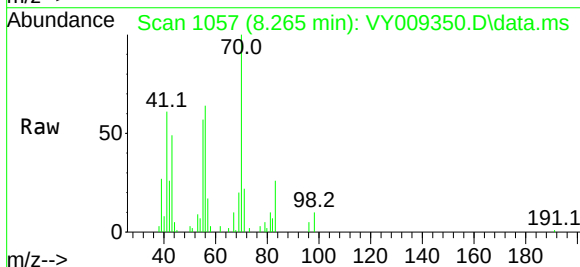
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

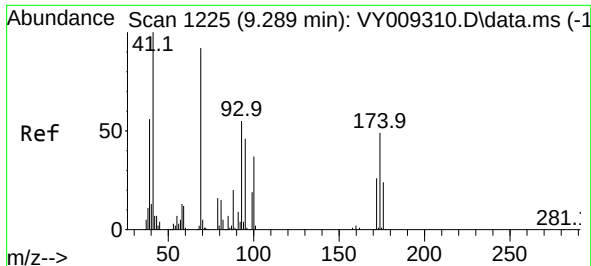
Tgt Ion: 41	Resp: 1378
Ion Ratio	Lower Upper
41 100	
39 66.3	0.0 0.0#
67 0.0	0.0 0.0
52 0.0	0.0 0.0



#43
Isopropyl Acetate
Concen: 2.351 ug/l
RT: 8.265 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 43	Resp:	4277	
Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.6	35.4#
87	0.0	11.3	16.9#

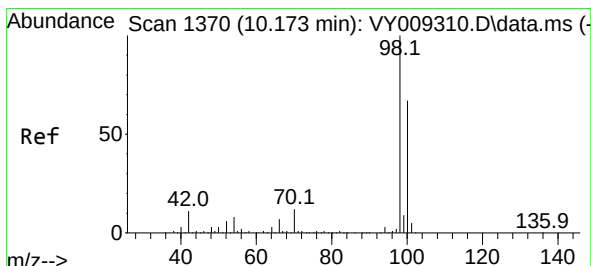
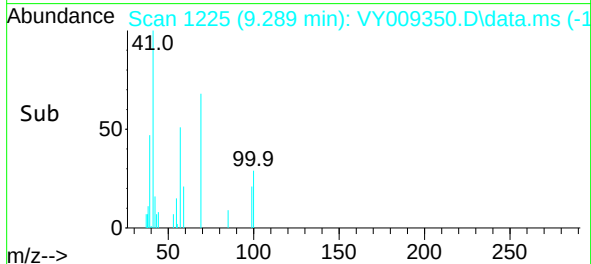
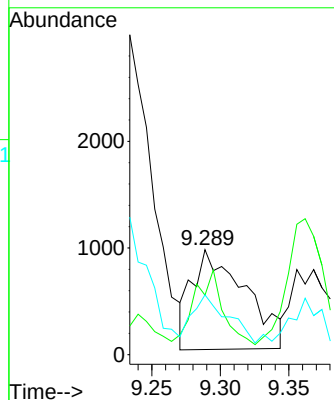
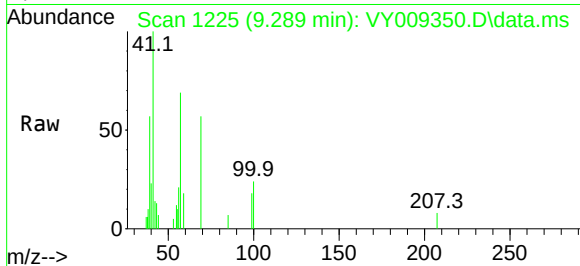




#48
Methyl methacrylate
Concen: 3.129 ug/l
RT: 9.289 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

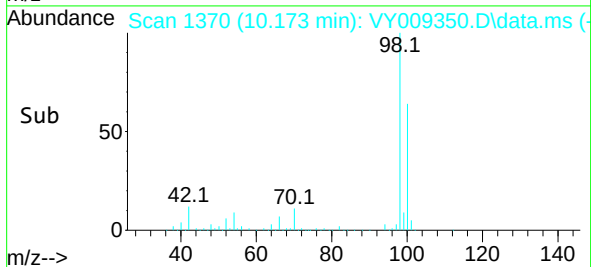
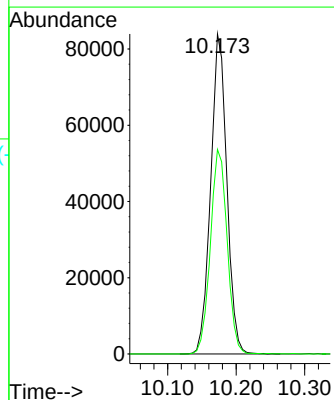
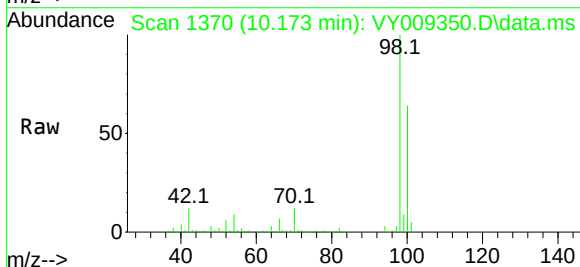
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

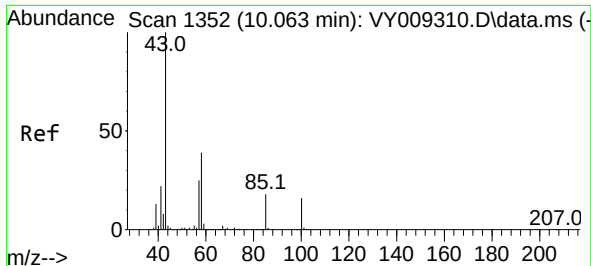
Tgt Ion: 41 Resp: 2530
Ion Ratio Lower Upper
41 100
69 52.9 73.2 109.8#
39 45.9 47.5 71.3#



#50
Toluene-d8
Concen: 44.817 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 98 Resp: 137396
Ion Ratio Lower Upper
98 100
100 66.4 52.9 79.3

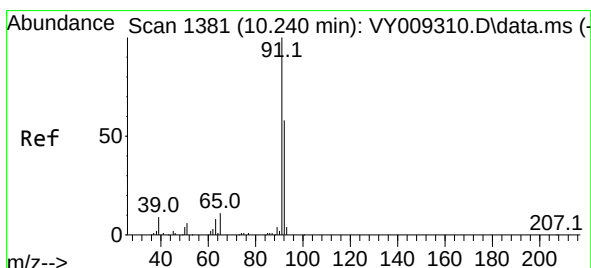
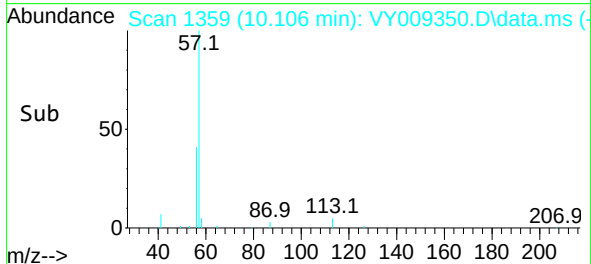
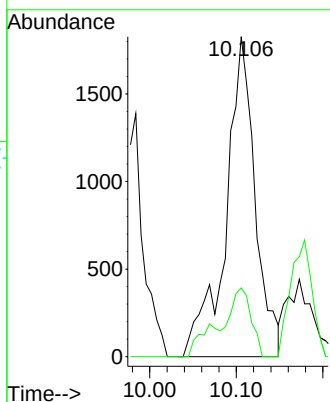
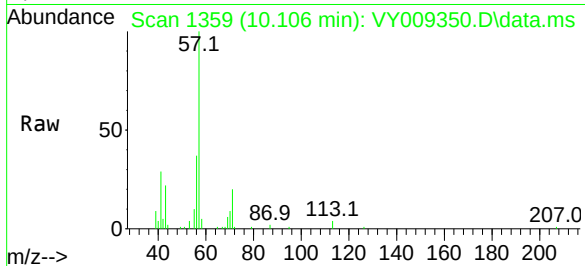




#51
4-Methyl-2-Pentanone
Concen: 4.663 ug/l
RT: 10.106 min Scan# 1359
Delta R.T. 0.043 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

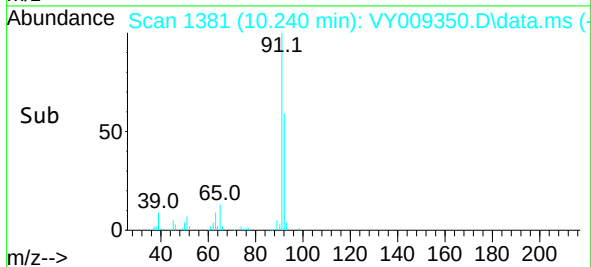
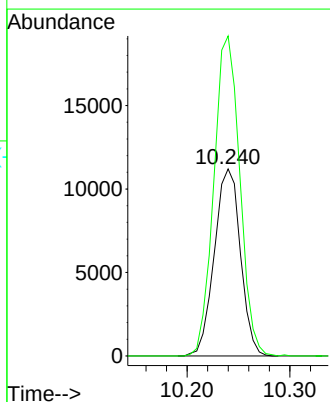
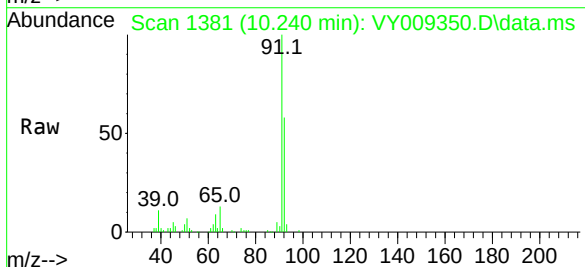
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

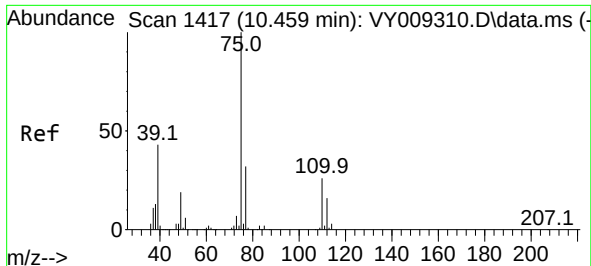
Tgt Ion: 43 Resp: 4286
Ion Ratio Lower Upper
43 100
58 15.7 31.5 47.3#



#52
Toluene
Concen: 6.237 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 92 Resp: 19714
Ion Ratio Lower Upper
92 100
91 170.1 138.7 208.1

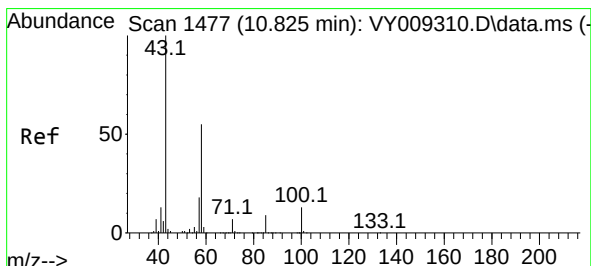
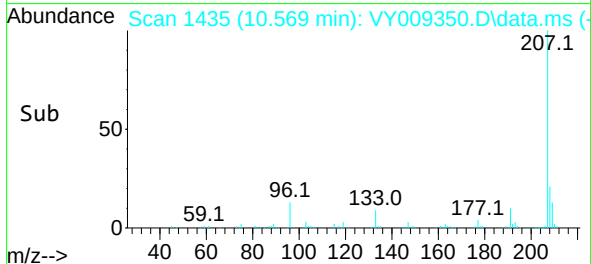
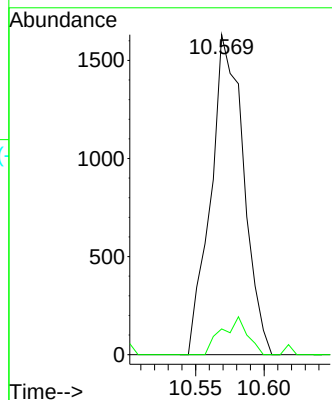
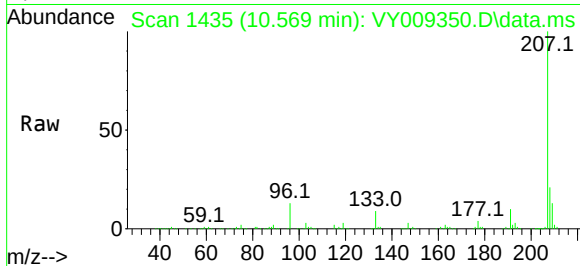




#53
t-1,3-Dichloropropene
Concen: 1.520 ug/l
RT: 10.569 min Scan# 1417
Delta R.T. 0.110 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

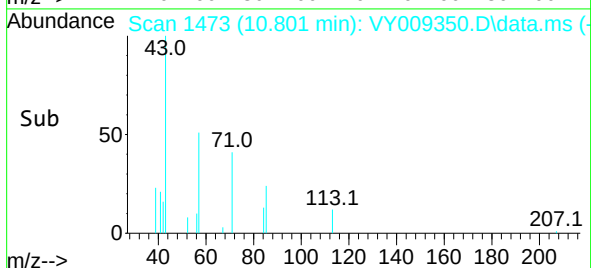
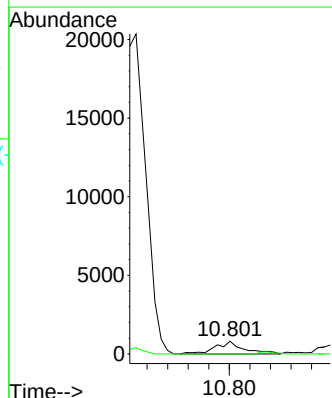
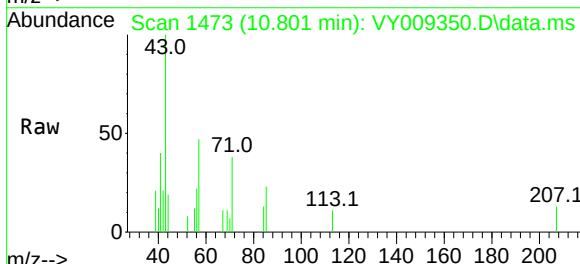
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

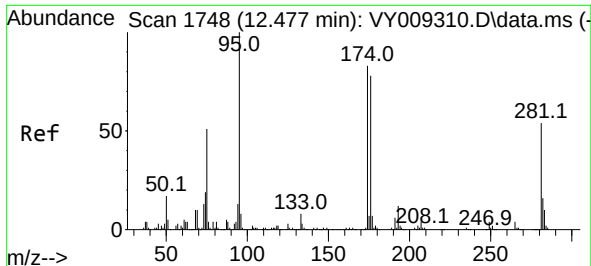
Tgt Ion: 75 Resp: 2717
Ion Ratio Lower Upper
75 100
77 8.0 25.4 38.0#



#59
2-Hexanone
Concen: 2.403 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.024 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 43 Resp: 1536
Ion Ratio Lower Upper
43 100
58 0.0 27.6 82.8#

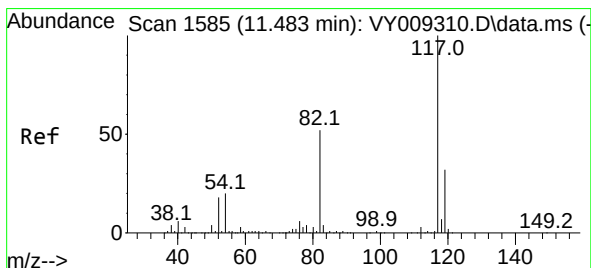
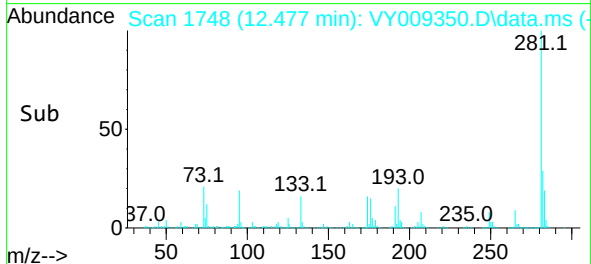
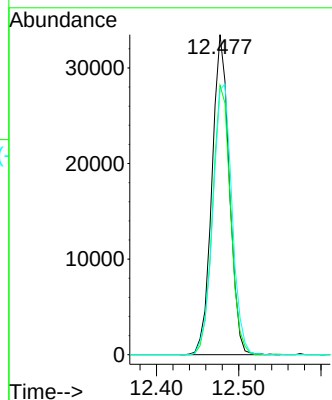
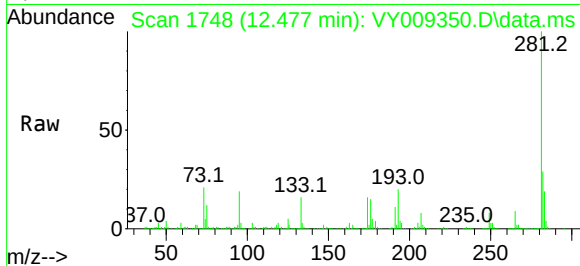




#62
4-Bromofluorobenzene
Concen: 33.387 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

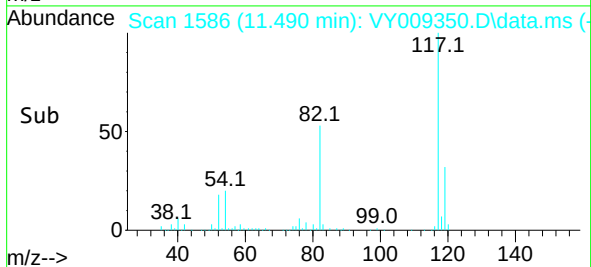
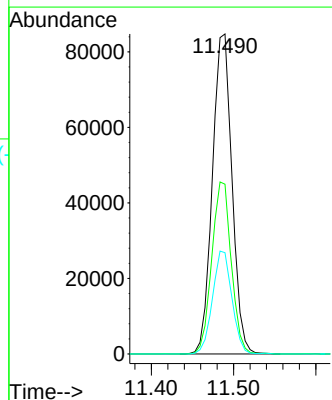
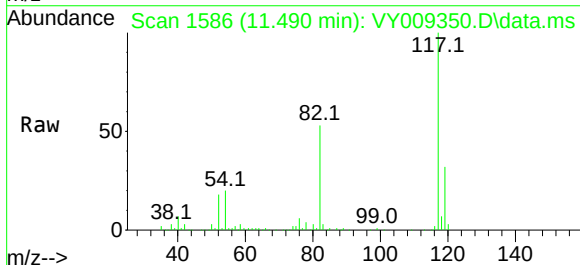
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

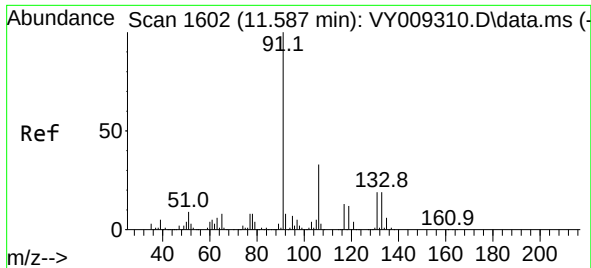
Tgt Ion: 95 Resp: 49122
Ion Ratio Lower Upper
95 100
174 86.7 0.0 173.8
176 92.8 0.0 167.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.007 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 117 Resp: 140393
Ion Ratio Lower Upper
117 100
82 53.1 41.8 62.6
119 31.7 25.6 38.4

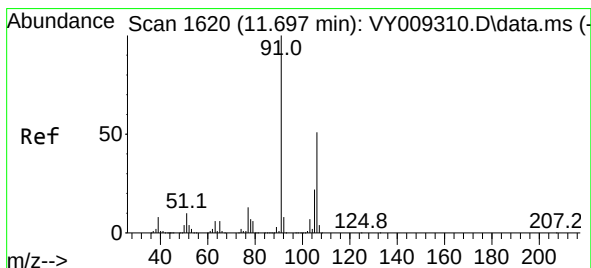
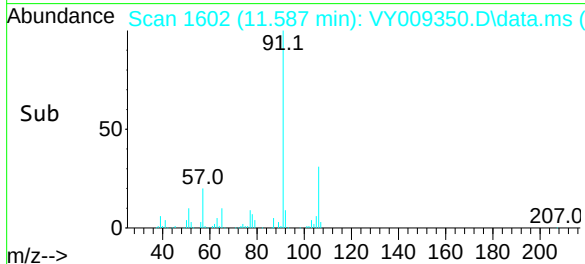
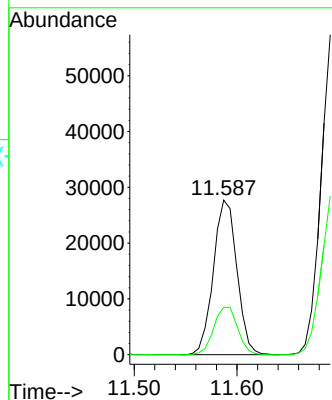
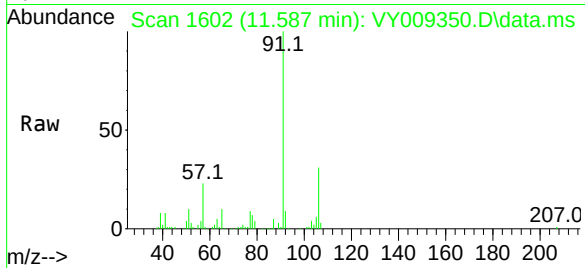




#67
Ethyl Benzene
Concen: 8.950 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

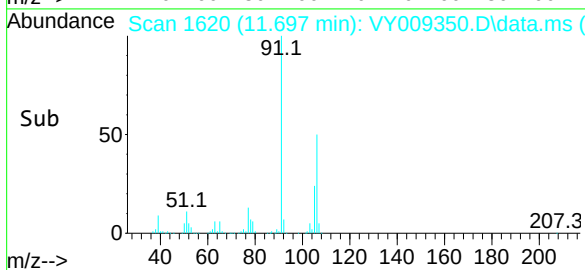
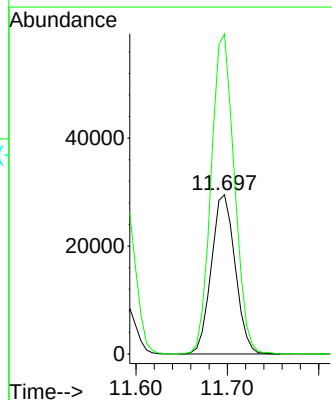
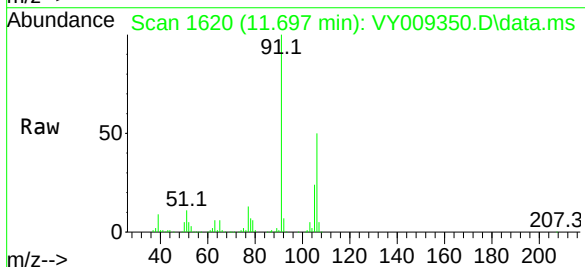
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

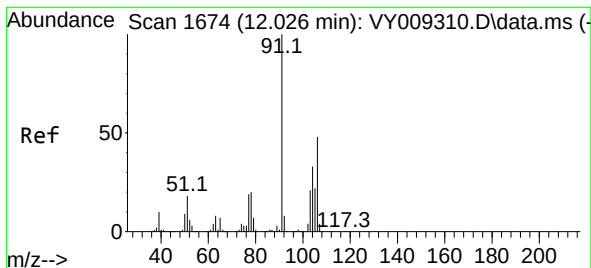
Tgt Ion: 91 Resp: 44021
Ion Ratio Lower Upper
91 100
106 30.7 26.2 39.4



#68
m/p-Xylenes
Concen: 27.651 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 106 Resp: 53433
Ion Ratio Lower Upper
106 100
91 196.4 156.2 234.2





#69

o-Xylene

Concen: 10.284 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY009350.D

Acq: 27 Jun 2022 18:02

Instrument :

MSVOA_Y

ClientSampleId :

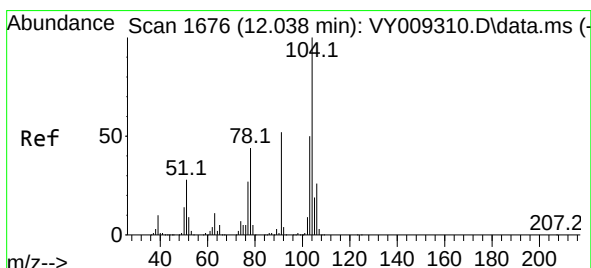
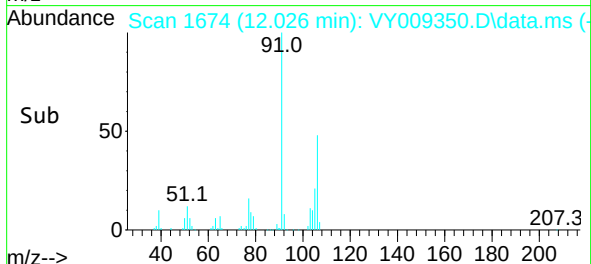
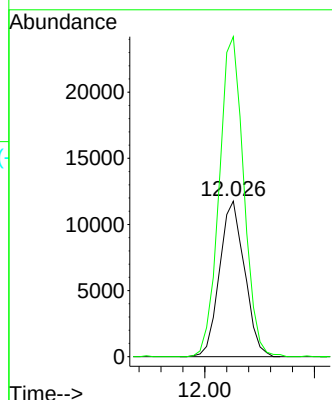
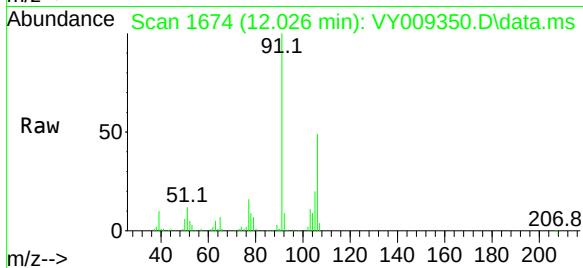
B2204-35

Tgt Ion:106 Resp: 18648

Ion Ratio Lower Upper

106 100

91 202.0 103.2 309.4



#70

Styrene

Concen: 2.493 ug/l

RT: 12.038 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VY009350.D

Acq: 27 Jun 2022 18:02

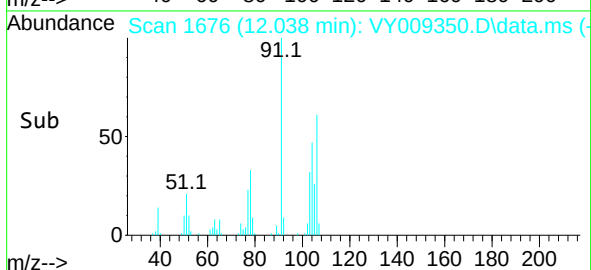
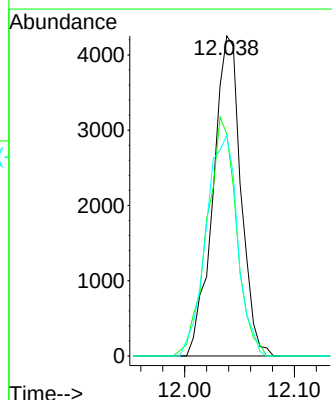
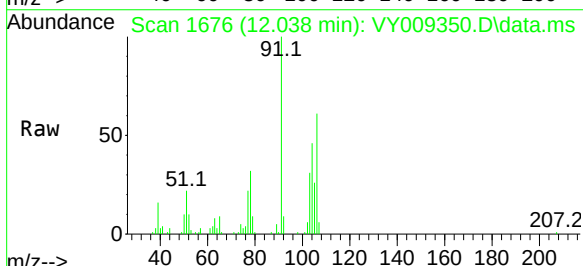
Tgt Ion:104 Resp: 7503

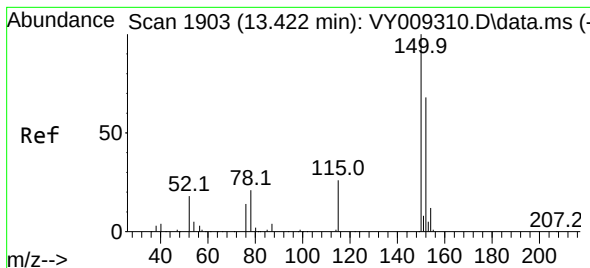
Ion Ratio Lower Upper

104 100

78 78.5 38.6 57.8#

103 78.0 43.3 64.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY009350.D

Acq: 27 Jun 2022 18:02

Instrument :

MSVOA_Y

ClientSampleId :

B2204-35

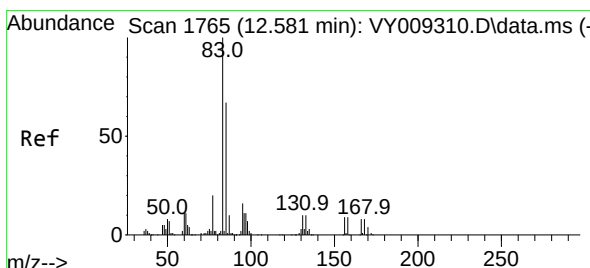
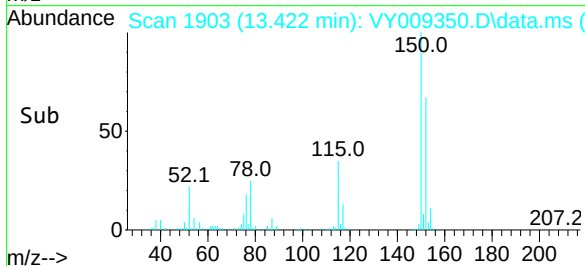
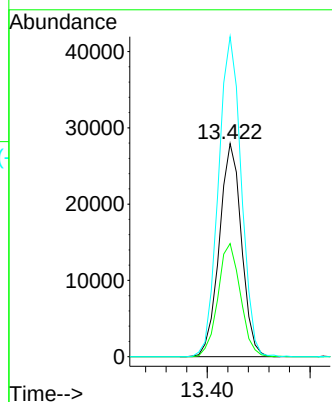
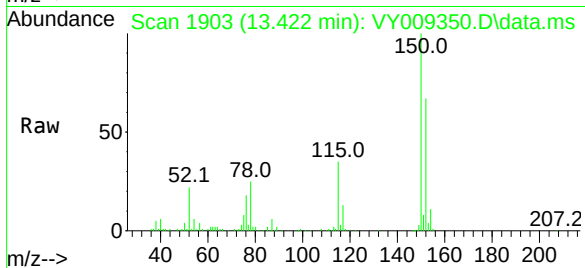
Tgt Ion:152 Resp: 41792

Ion Ratio Lower Upper

152 100

115 53.8 28.6 85.9

150 154.7 0.0 349.8



#75

1,1,2,2-Tetrachloroethane

Concen: 2.546 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.091 min

Lab File: VY009350.D

Acq: 27 Jun 2022 18:02

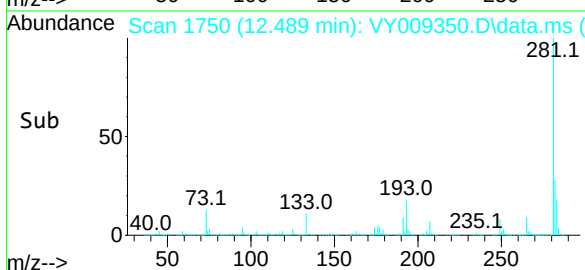
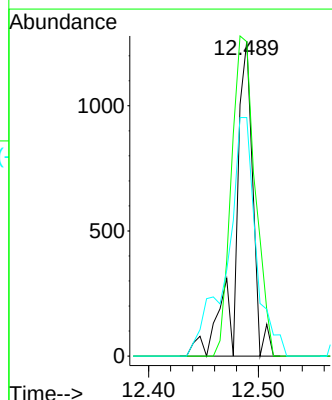
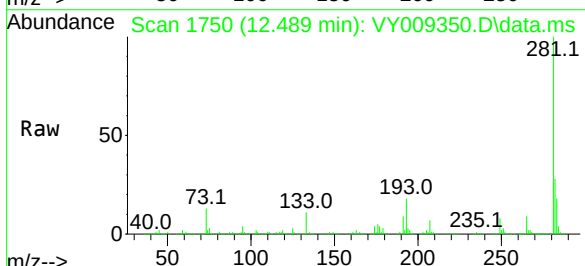
Tgt Ion: 83 Resp: 1383

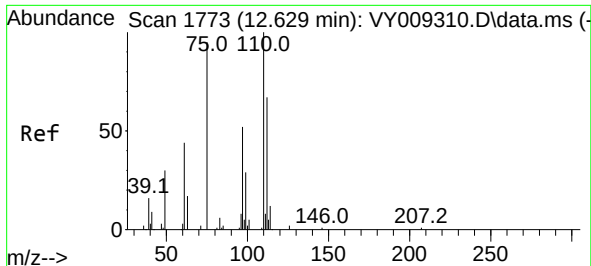
Ion Ratio Lower Upper

83 100

131 139.0 5.4 16.2#

85 125.8 32.8 98.4#

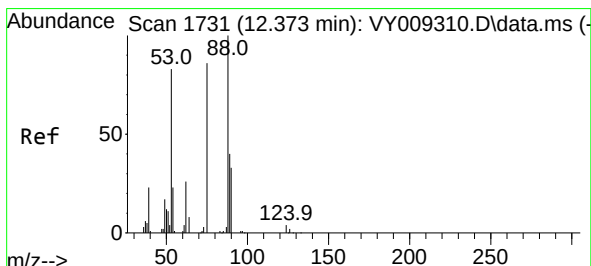
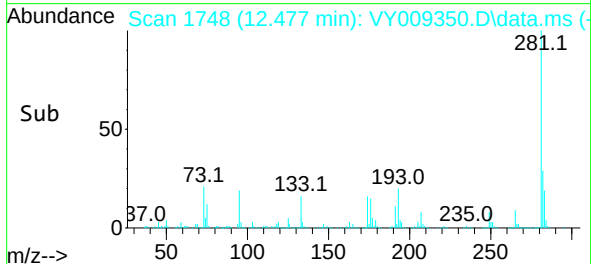
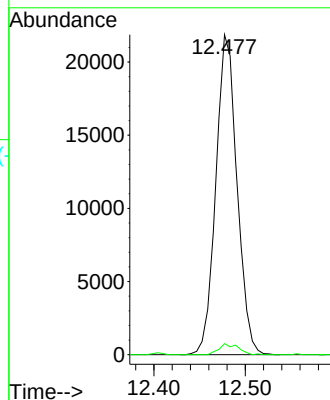
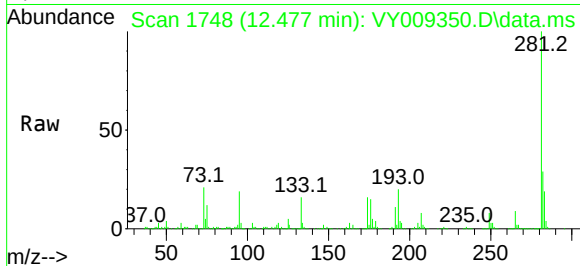




#76
1,2,3-Trichloropropane
Concen: 86.743 ug/l
RT: 12.477 min Scan# 1773
Delta R.T. -0.152 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

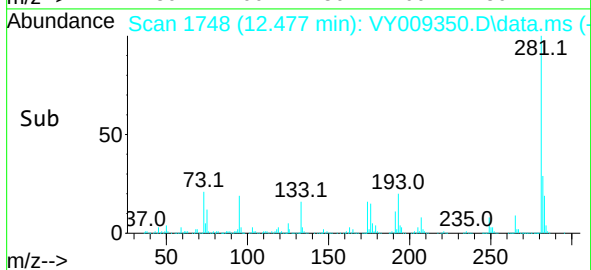
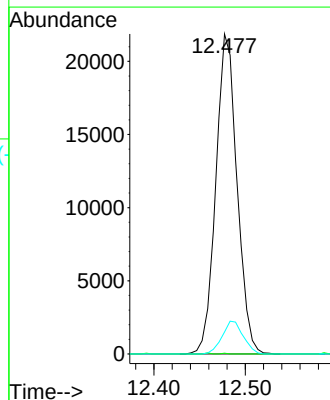
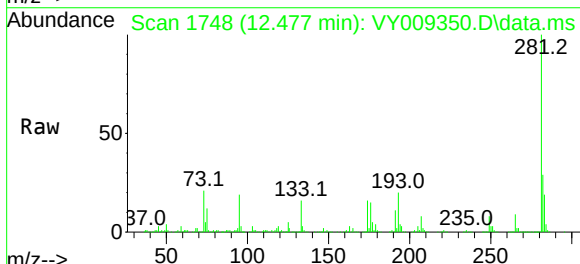
Instrument :
MSVOA_Y
ClientSampleId :
B2204-35

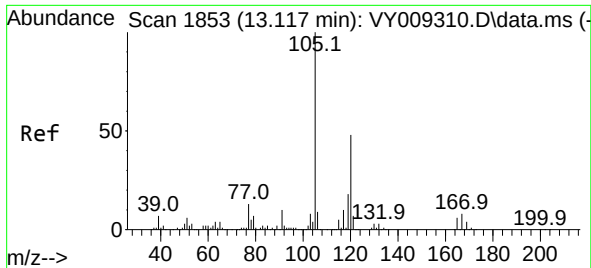
Tgt Ion: 75 Resp: 35179
Ion Ratio Lower Upper
75 100
77 3.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 171.711 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY009350.D
Acq: 27 Jun 2022 18:02

Tgt Ion: 75 Resp: 35179
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.2#
89 10.2 38.1 57.1#





#84
 1,2,4-Trimethylbenzene
 Concen: 1.252 ug/l
 RT: 13.117 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY009350.D
 Acq: 27 Jun 2022 18:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 B2204-35

Tgt Ion:105 Resp: 2996
 Ion Ratio Lower Upper
 105 100
 120 49.1 23.4 70.3

