

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070822\
 Data File : VY009484.D
 Acq On : 08 Jul 2022 15:49
 Operator : KP/MD
 Sample : N3595-04
 Misc : 4.79g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 20220488A-6A

Quant Time: Jul 11 02:14:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y070722S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 08 11:00:56 2022
 Response via : Initial Calibration

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

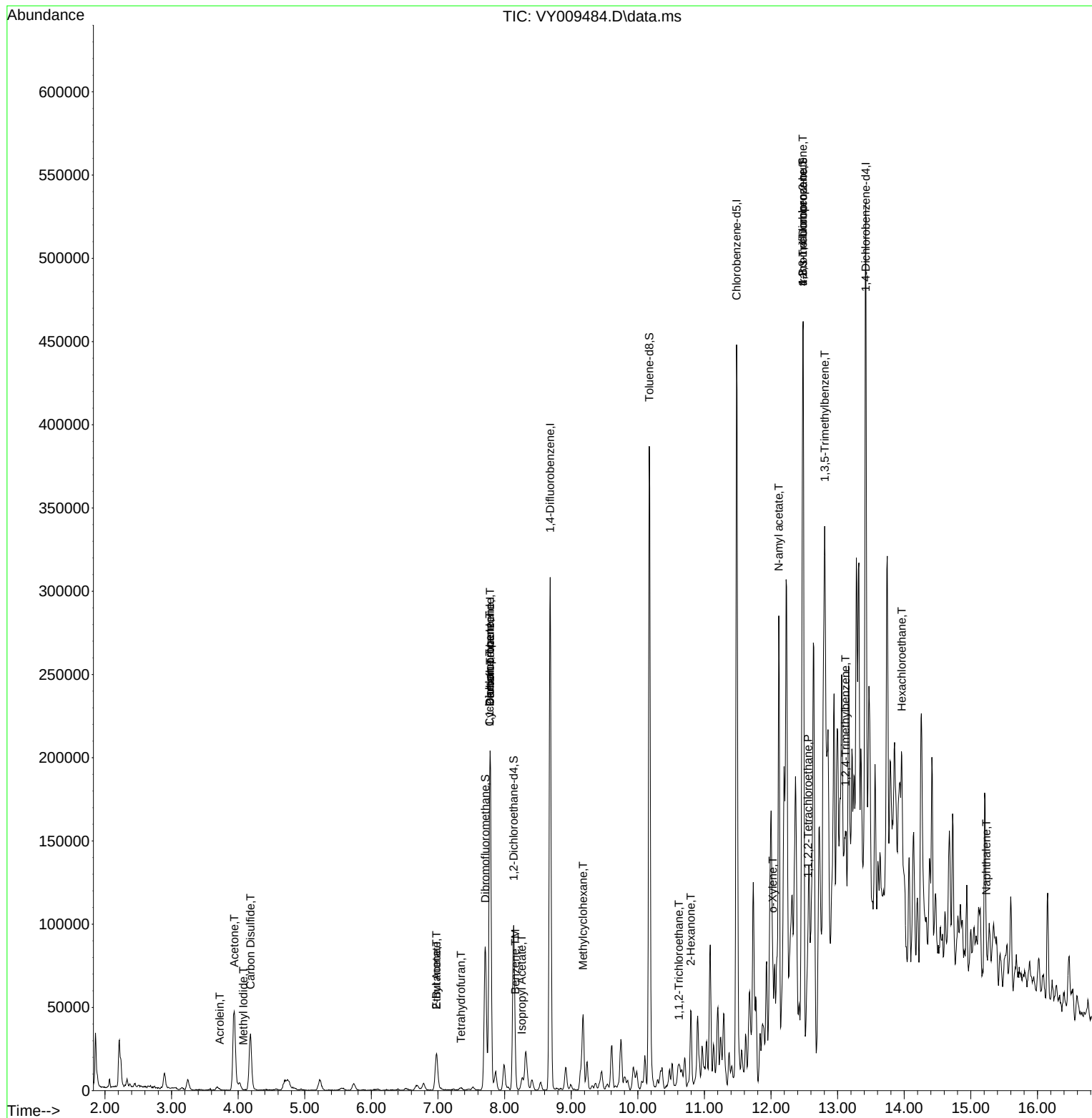
Internal Standards						
1) Pentafluorobenzene	7.783	168	158572	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	256716	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	235889	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	111847	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	70981	65.562	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	131.120%		
35) Dibromofluoromethane	7.710	113	59300	43.901	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	87.800%		
50) Toluene-d8	10.173	98	236039	66.398	ug/l	0.00
Spiked Amount 50.000	Range 78 - 125		Recovery =	132.800%#		
62) 4-Bromofluorobenzene	12.477	95	83426	43.754	ug/l	0.00
Spiked Amount 50.000	Range 50 - 146		Recovery =	87.500%		
Target Compounds						Qvalue
10) Methyl Iodide	4.076	142	71	4.197	ug/l #	35
11) Tert butyl alcohol	4.948	59	972	Below Cal	#	77
13) Acrolein	3.723	56	848	36.180	ug/l #	14
16) Acetone	3.942	43	87574	227.023	ug/l	96
17) Carbon Disulfide	4.186	76	64429	18.046	ug/l	98
20) Methylene Chloride	4.698	84	3163	Below Cal		94
23) Vinyl Acetate	6.045	43	75	Below Cal	#	75
25) 2-Butanone	6.978	43	30405	48.724	ug/l #	88
29) Tetrahydrofuran	7.344	42	632	1.566	ug/l #	38
31) Cyclohexane	7.777	56	7431	2.856	ug/l #	60
36) 1,1-Dichloropropene	7.777	75	12061	5.485	ug/l #	51
37) Ethyl Acetate	6.978	43	30405	22.057	ug/l #	73
38) Carbon Tetrachloride	7.783	117	14936	6.351	ug/l #	15
39) Methylcyclohexane	9.179	83	13969	5.292	ug/l	97
40) Benzene	8.161	78	11157	1.728	ug/l	92
43) Isopropyl Acetate	8.258	43	2887	1.122	ug/l #	56
55) 1,1,2-Trichloroethane	10.618	97	4042	2.921	ug/l #	25
59) 2-Hexanone	10.794	43	17877	19.074	ug/l #	32
69) o-Xylene	12.026	106	3798	1.256	ug/l	76
74) N-amyl acetate	12.117	43	59377	27.283	ug/l #	67
75) 1,1,2,2-Tetrachloroethane	12.556	83	6693	4.370	ug/l #	9
76) 1,2,3-Trichloropropane	12.477	75	42803	36.152	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.806	105	11101	1.736	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	42803	73.989	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.117	105	15588	2.449	ug/l	99
90) Hexachloroethane	13.965	117	1486	1.085	ug/l #	6
95) Naphthalene	15.233	128	5616	1.322	ug/l #	62

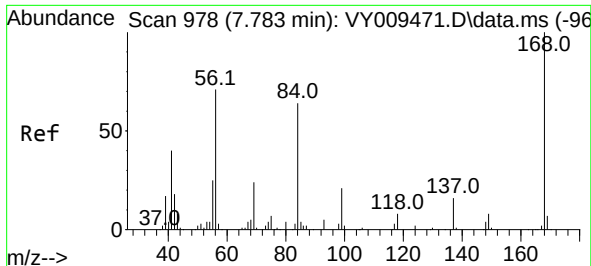
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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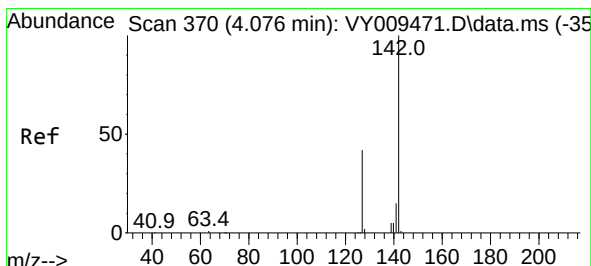
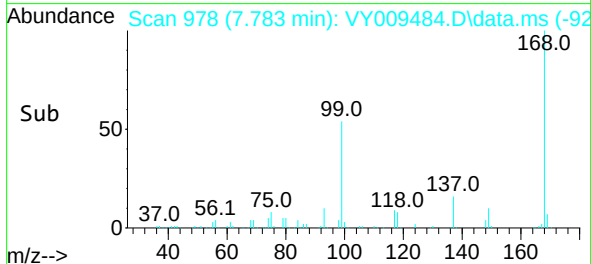
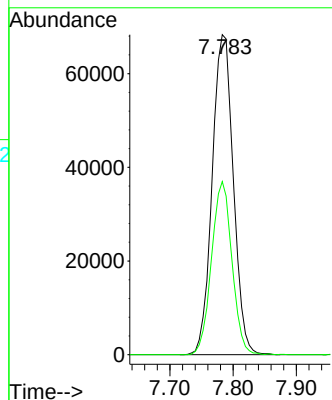
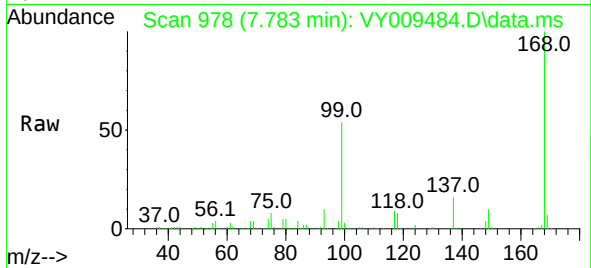




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

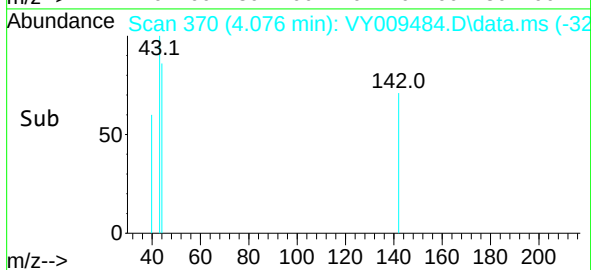
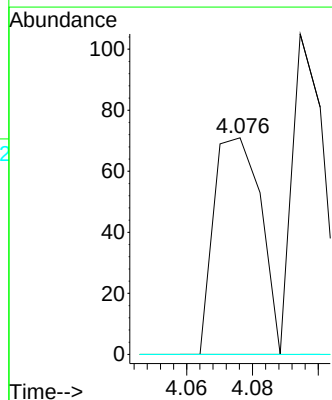
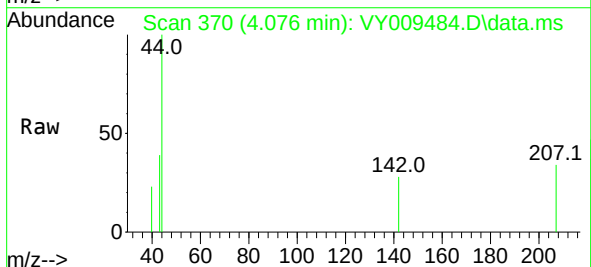
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

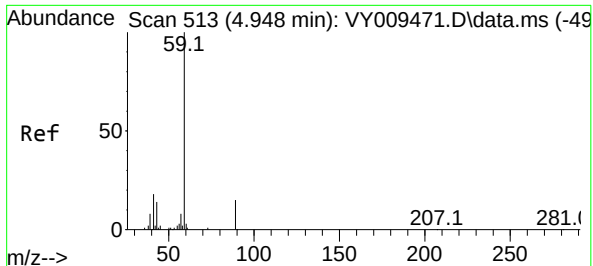
Tgt Ion:168 Resp: 158572
Ion Ratio Lower Upper
168 100
99 54.1 46.9 70.3



#10
Methyl Iodide
Concen: 4.197 ug/l
RT: 4.076 min Scan# 370
Delta R.T. 0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion:142 Resp: 71
Ion Ratio Lower Upper
142 100
127 0.0 41.5 62.3#
141 0.0 11.9 17.9#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.948 min Scan# 513

Delta R.T. 0.000 min

Lab File: VY009484.D

Acq: 08 Jul 2022 15:49

Instrument :

MSVOA_Y

ClientSampleId :

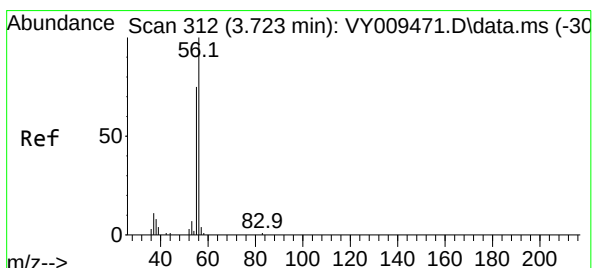
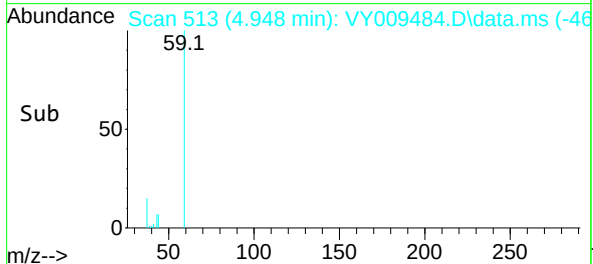
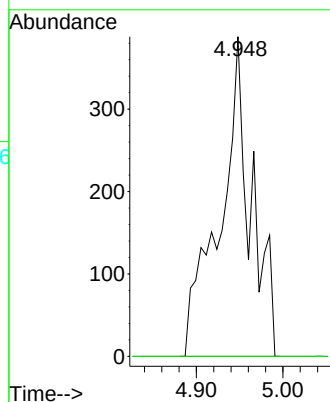
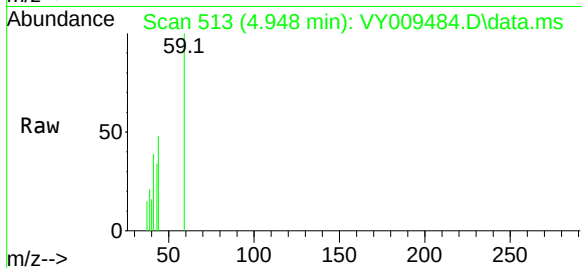
20220488A-6A

Tgt Ion: 59 Resp: 972

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#13

Acrolein

Concen: 36.180 ug/l

RT: 3.723 min Scan# 312

Delta R.T. -0.000 min

Lab File: VY009484.D

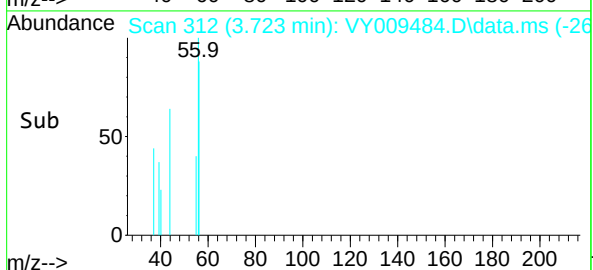
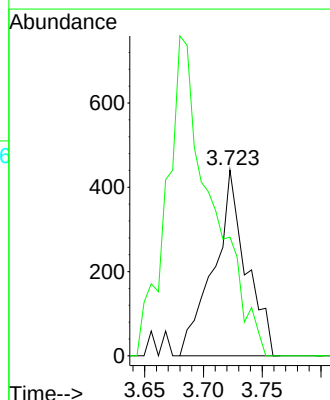
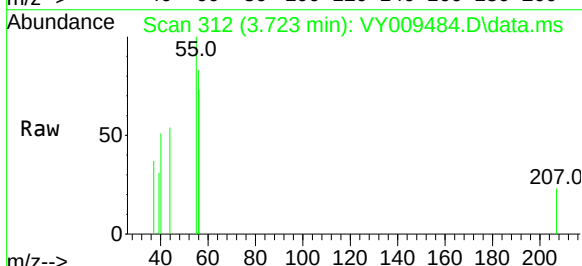
Acq: 08 Jul 2022 15:49

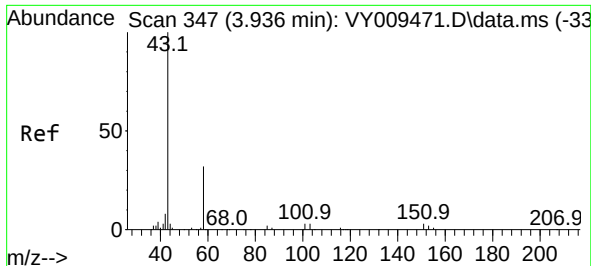
Tgt Ion: 56 Resp: 848

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#

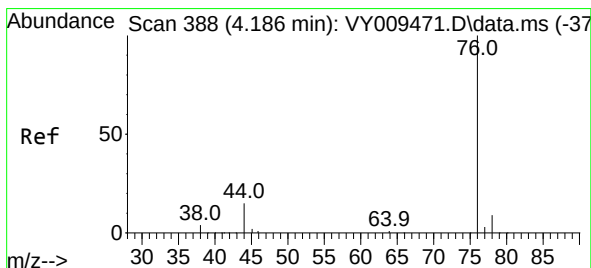
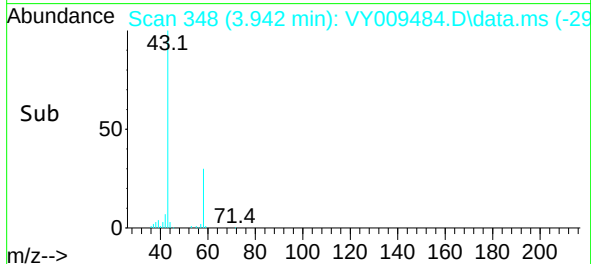
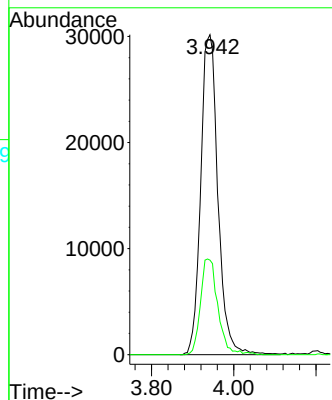
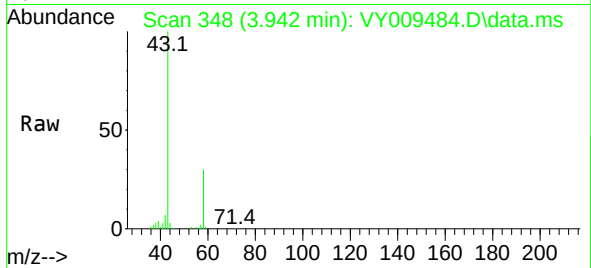




#16
Acetone
Concen: 227.023 ug/l
RT: 3.942 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

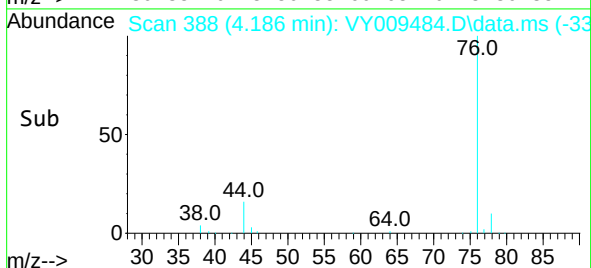
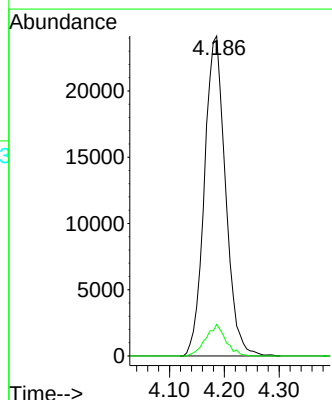
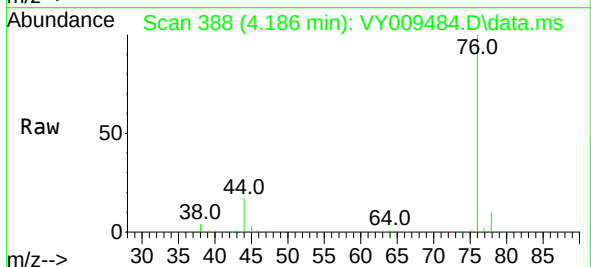
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

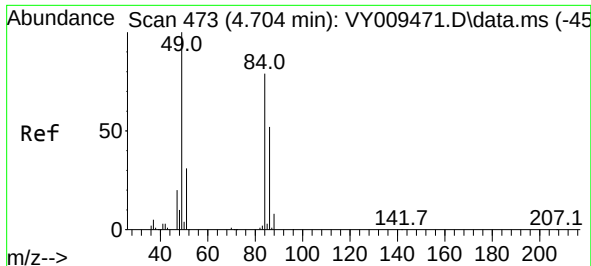
Tgt Ion: 43 Resp: 87574
Ion Ratio Lower Upper
43 100
58 29.5 22.0 33.0



#17
Carbon Disulfide
Concen: 18.046 ug/l
RT: 4.186 min Scan# 388
Delta R.T. -0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 76 Resp: 64429
Ion Ratio Lower Upper
76 100
78 9.8 7.4 11.0

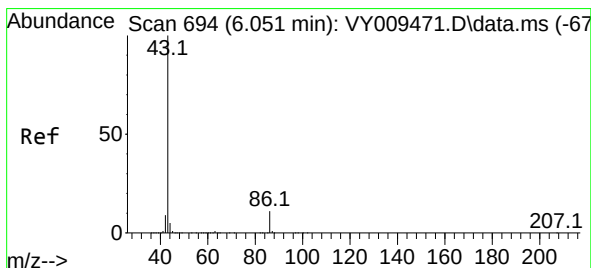
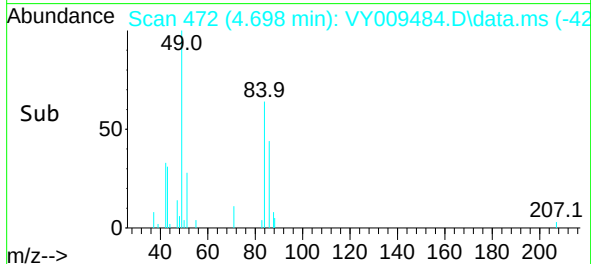
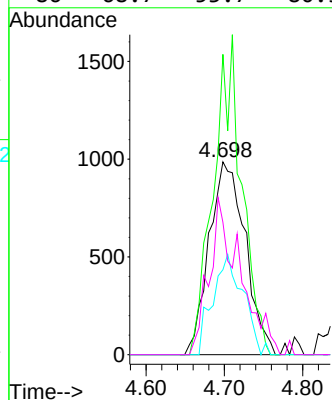
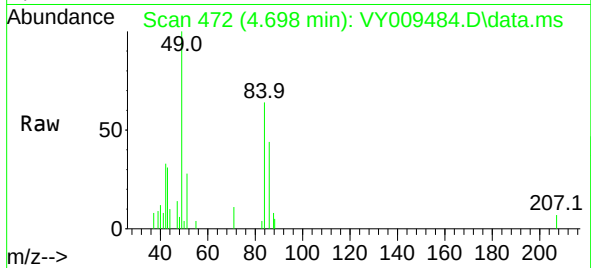




#20
Methylene Chloride
Concen: Below Cal
RT: 4.698 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

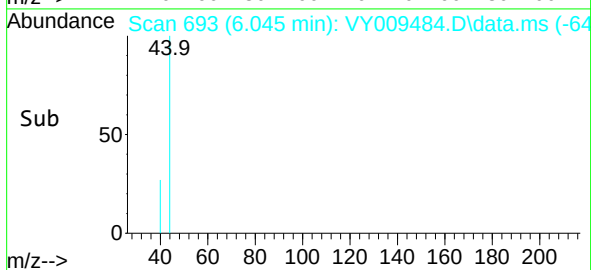
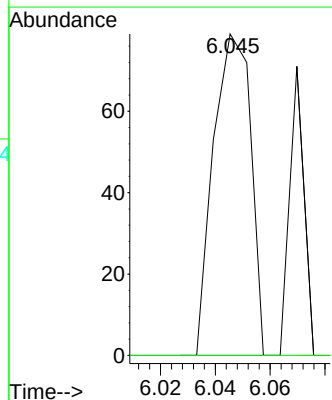
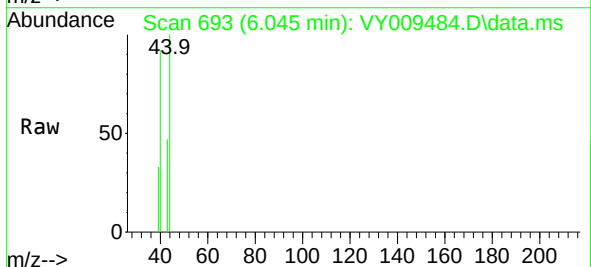
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

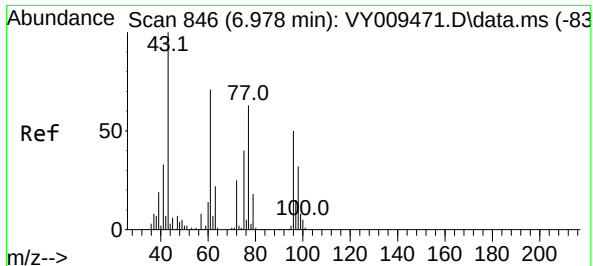
Tgt Ion:	84	Resp:	3163
Ion	Ratio	Lower	Upper
84	100		
49	155.8	114.4	171.6
51	44.1	35.3	52.9
86	68.7	53.7	80.5



#23
Vinyl Acetate
Concen: Below Cal
RT: 6.045 min Scan# 693
Delta R.T. -0.006 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion:	43	Resp:	75
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.1	10.7#





#25

2-Butanone

Concen: 48.724 ug/l

RT: 6.978 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY009484.D

Acq: 08 Jul 2022 15:49

Instrument :

MSVOA_Y

ClientSampleId :

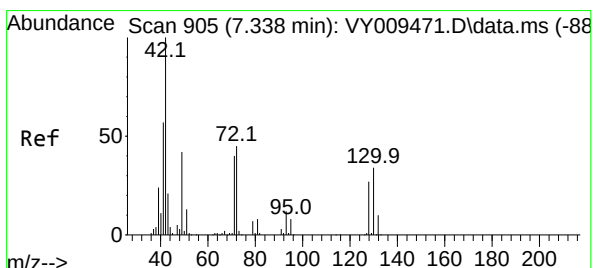
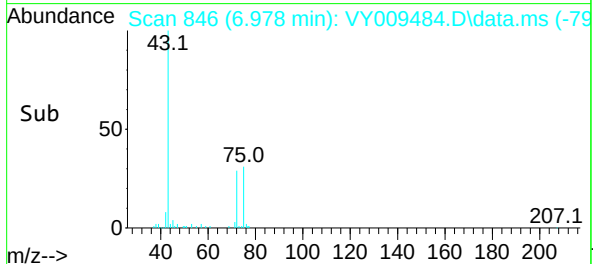
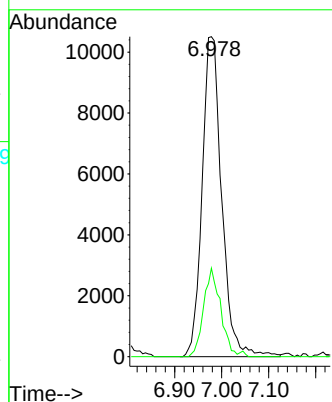
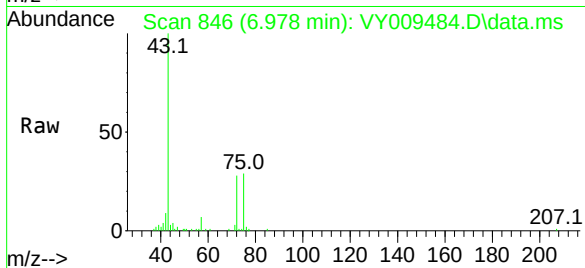
20220488A-6A

Tgt Ion: 43 Resp: 30405

Ion Ratio Lower Upper

43 100

72 27.6 17.7 26.5#



#29

Tetrahydrofuran

Concen: 1.566 ug/l

RT: 7.344 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY009484.D

Acq: 08 Jul 2022 15:49

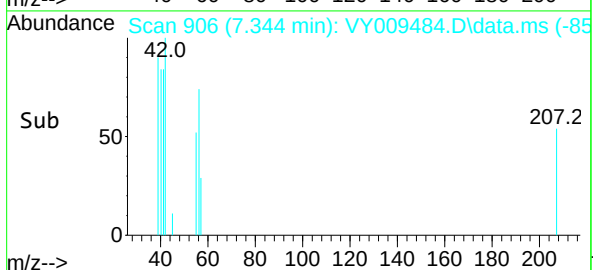
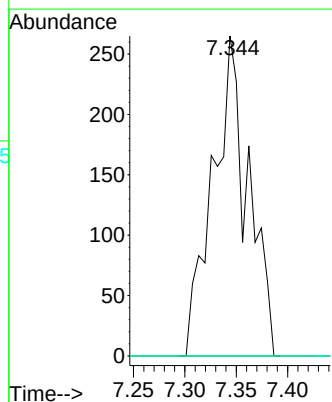
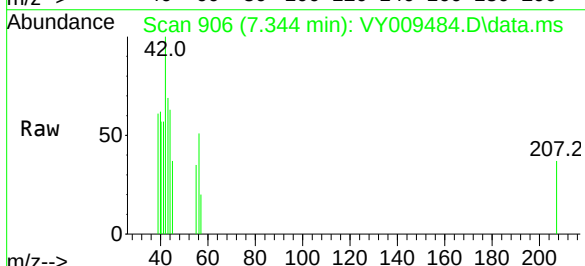
Tgt Ion: 42 Resp: 632

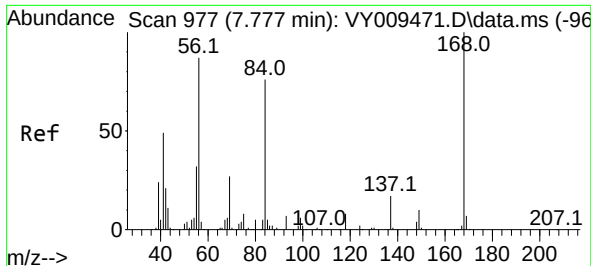
Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

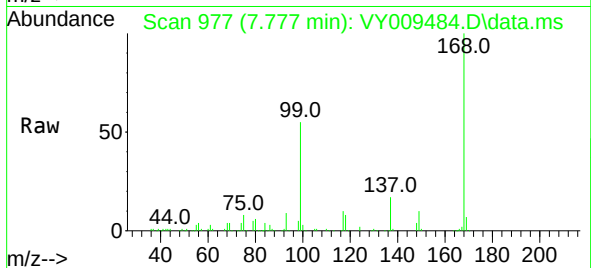
71 0.0 29.0 43.4#



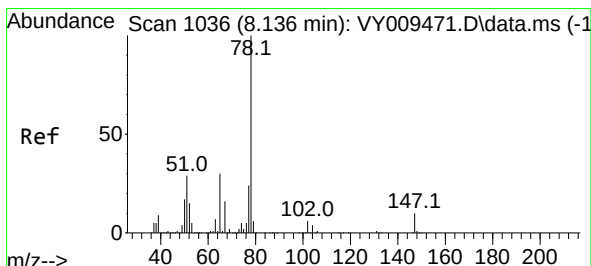
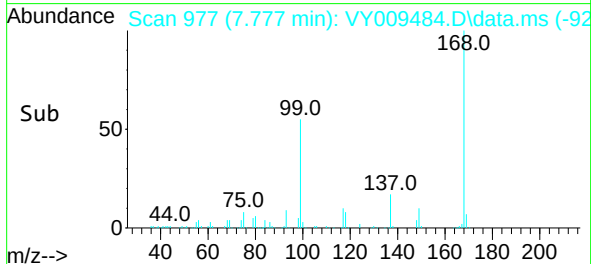
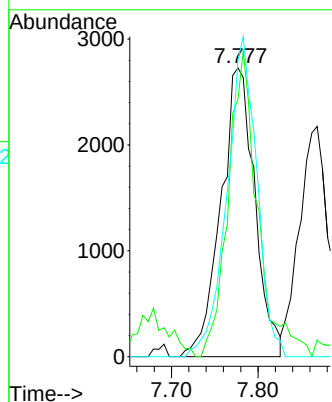


#31
Cyclohexane
Concen: 2.856 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

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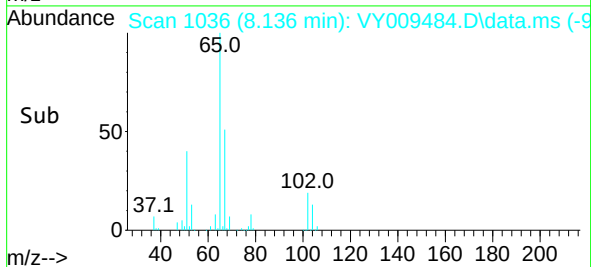
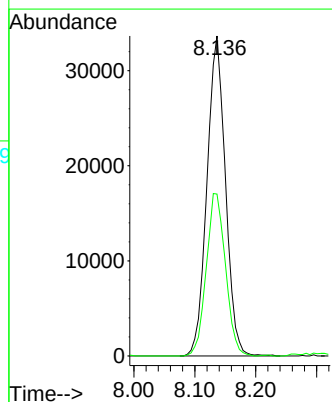
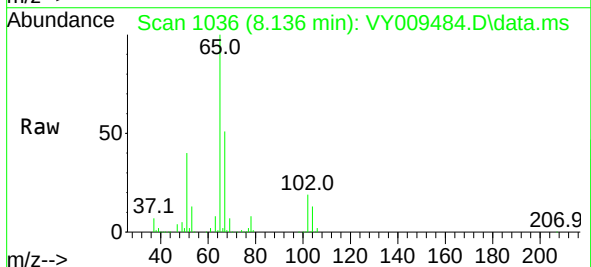


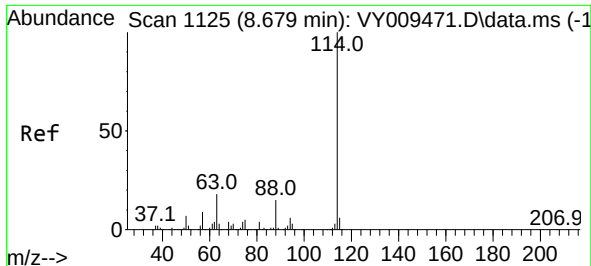
Tgt Ion: 56 Resp: 7431
Ion Ratio Lower Upper
56 100
69 84.1 26.7 40.1#
84 102.7 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 65.562 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 65 Resp: 70981
Ion Ratio Lower Upper
65 100
67 52.8 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VY009484.D

Acq: 08 Jul 2022 15:49

Instrument :

MSVOA_Y

ClientSampleId :

20220488A-6A

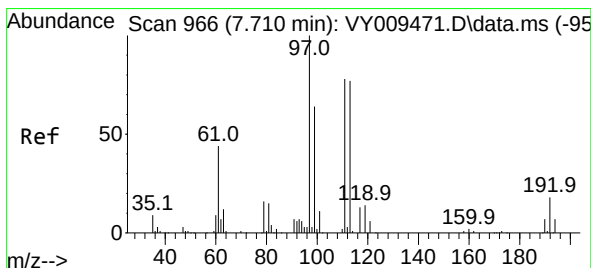
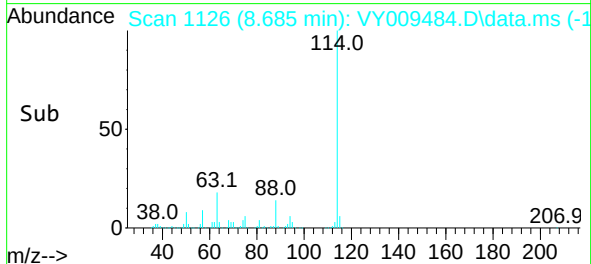
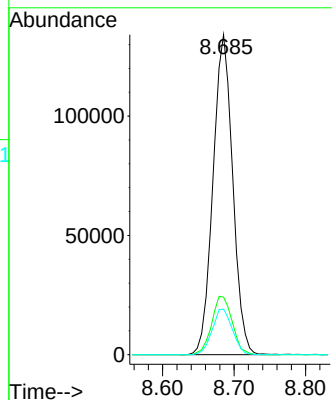
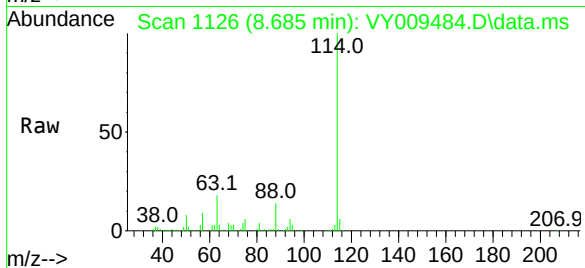
Tgt Ion:114 Resp: 256716

Ion Ratio Lower Upper

114 100

63 18.0 0.0 43.2

88 14.3 0.0 31.8



#35

Dibromofluoromethane

Concen: 43.901 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY009484.D

Acq: 08 Jul 2022 15:49

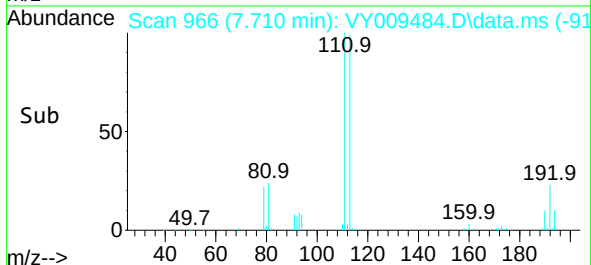
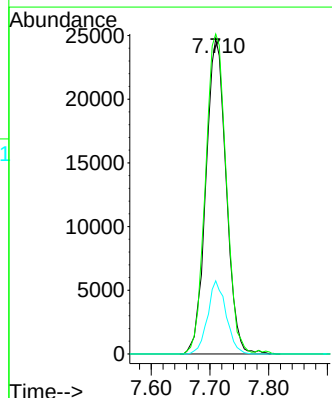
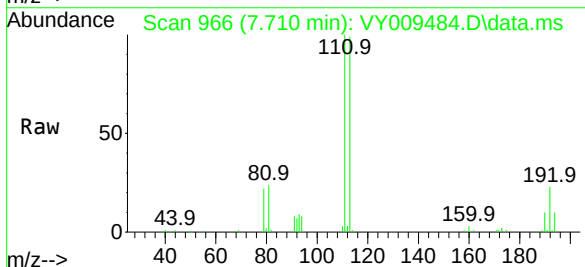
Tgt Ion:113 Resp: 59300

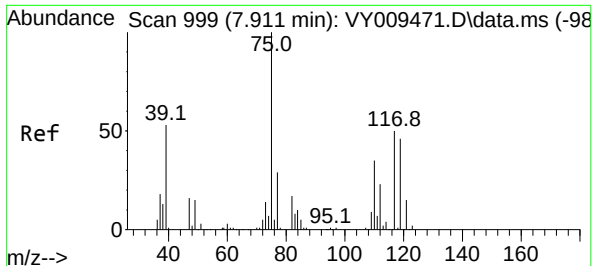
Ion Ratio Lower Upper

113 100

111 103.7 82.6 124.0

192 21.2 17.6 26.4

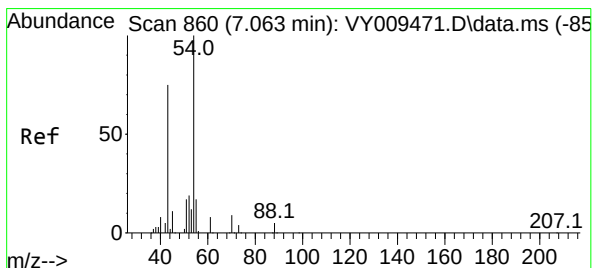
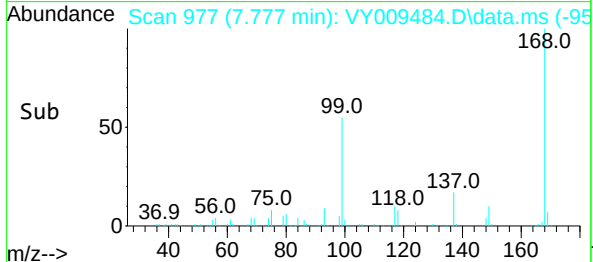
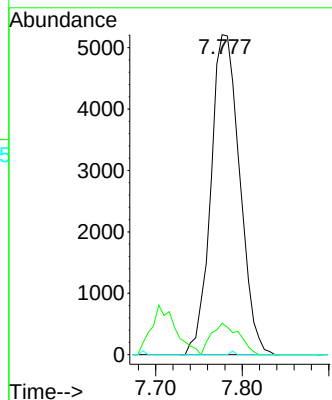
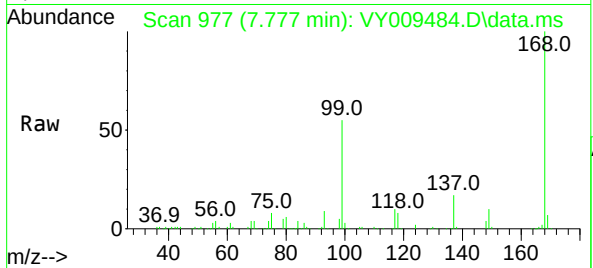




#36
1,1-Dichloropropene
Concen: 5.485 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

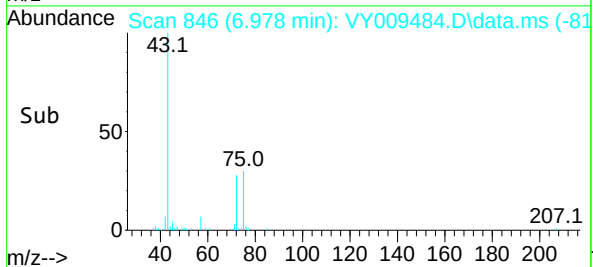
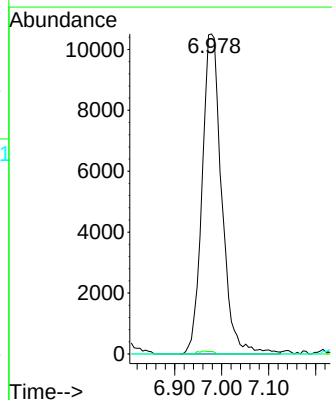
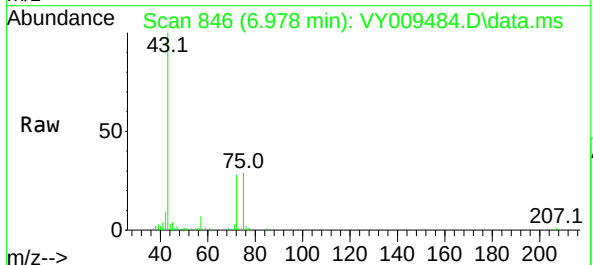
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

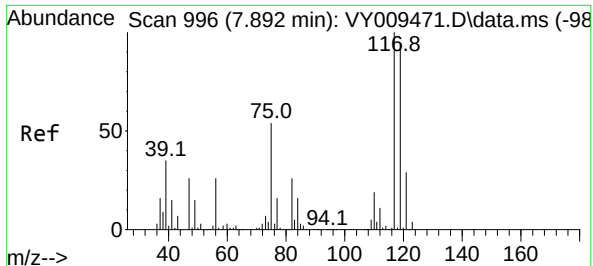
Tgt Ion: 75 Resp: 12061
Ion Ratio Lower Upper
75 100
110 9.4 17.1 51.2#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 22.057 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.085 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 43 Resp: 30405
Ion Ratio Lower Upper
43 100
61 0.7 9.7 14.5#
70 0.0 7.1 10.7#

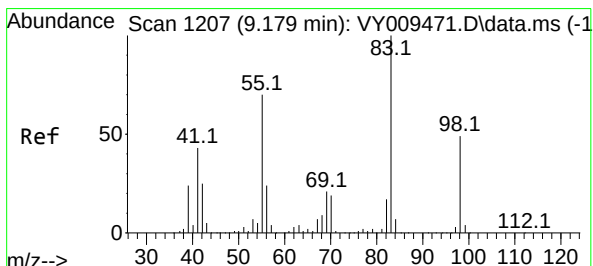
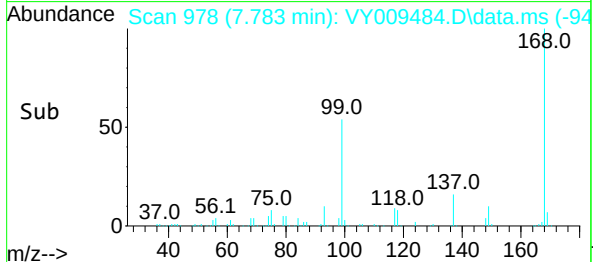
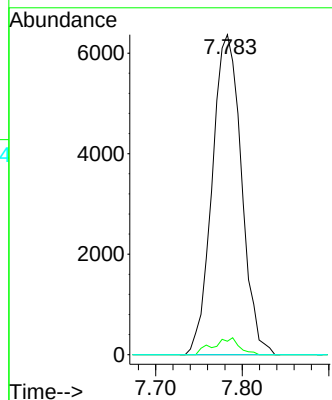
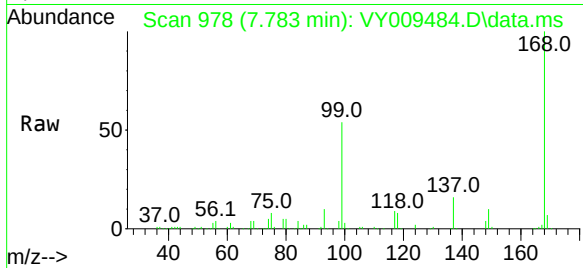




#38
Carbon Tetrachloride
Concen: 6.351 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.109 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

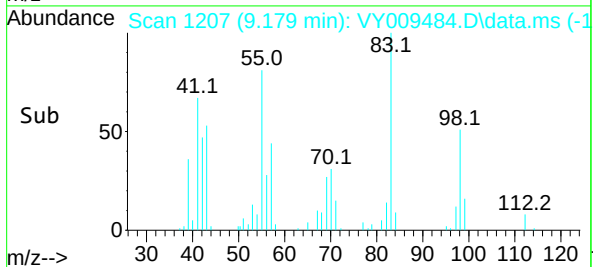
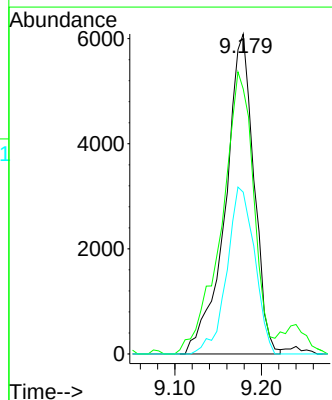
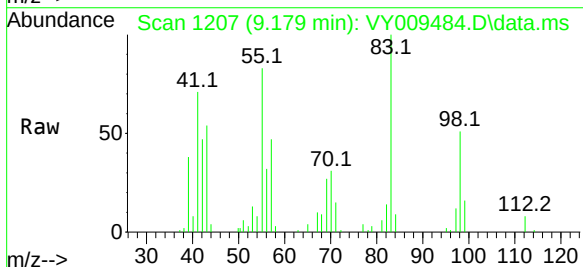
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

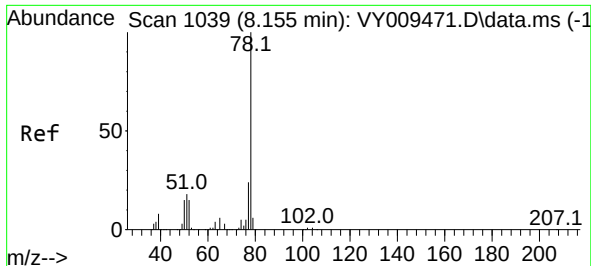
Tgt Ion:117 Resp: 14936
Ion Ratio Lower Upper
117 100
119 4.2 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: 5.292 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 83 Resp: 13969
Ion Ratio Lower Upper
83 100
55 81.5 66.5 99.7
98 50.5 37.9 56.9

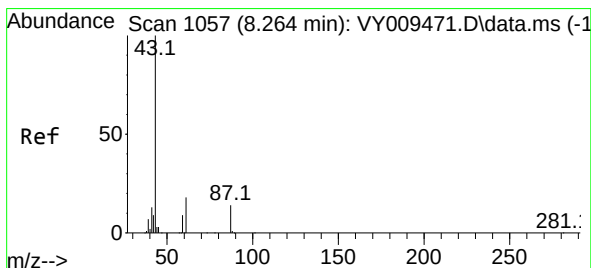
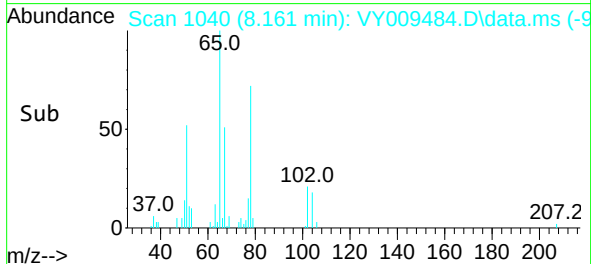
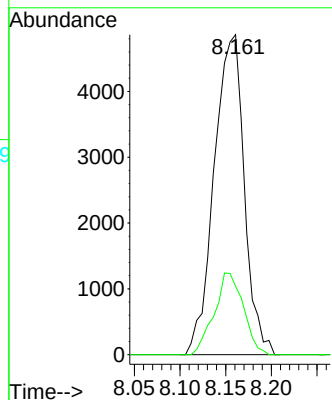
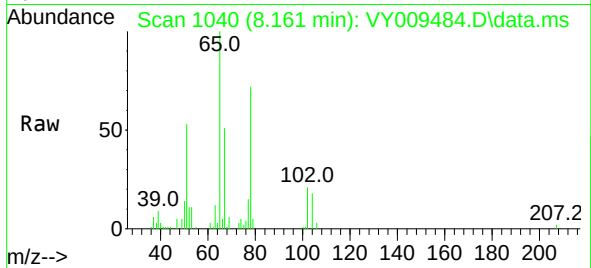




#40
Benzene
Concen: 1.728 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

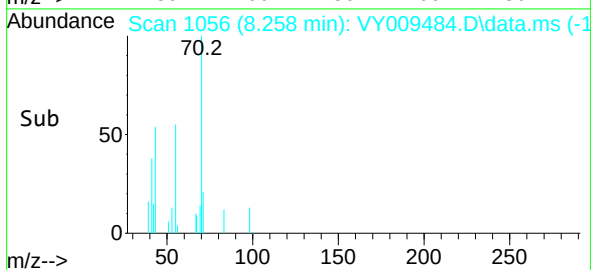
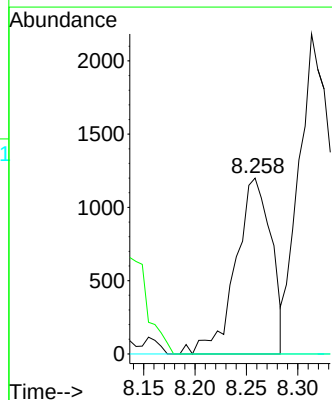
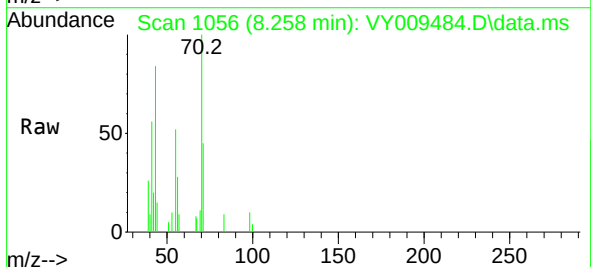
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

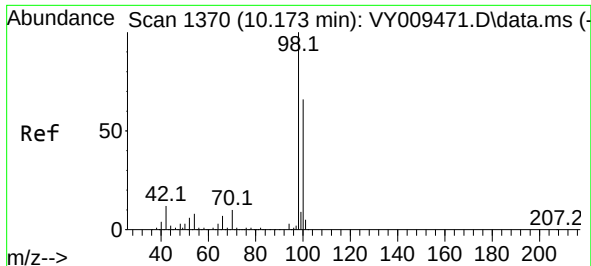
Tgt Ion: 78 Resp: 11157
Ion Ratio Lower Upper
78 100
77 21.4 20.4 30.6



#43
Isopropyl Acetate
Concen: 1.122 ug/l
RT: 8.258 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 43 Resp: 2887
Ion Ratio Lower Upper
43 100
61 0.0 20.2 30.2#
87 0.0 8.9 13.3#

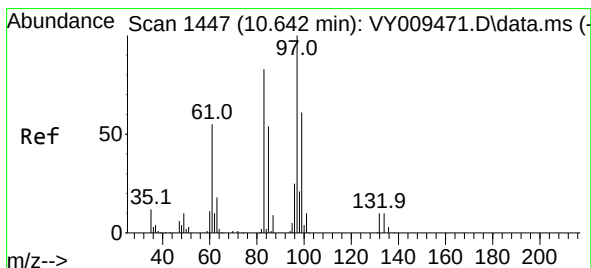
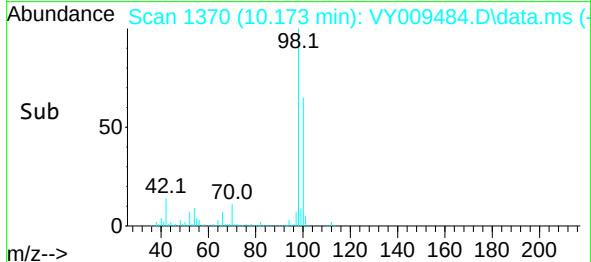
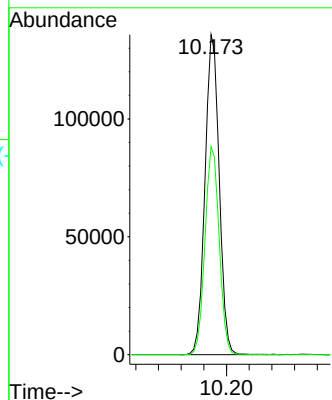
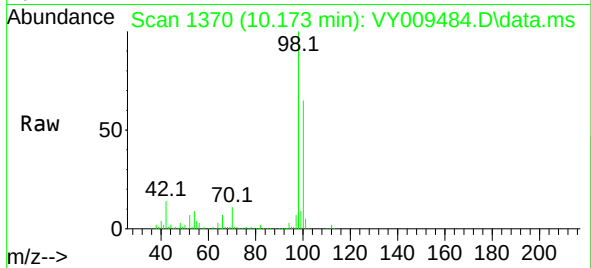




#50
Toluene-d8
Concen: 66.398 ug/l
RT: 10.173 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

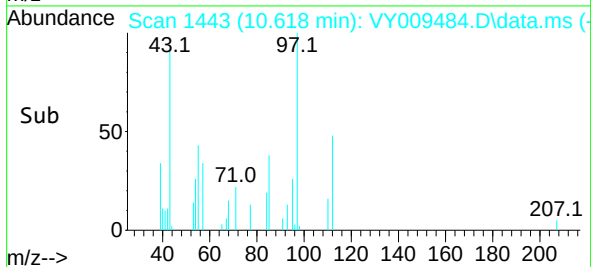
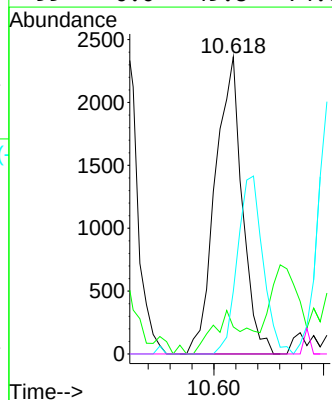
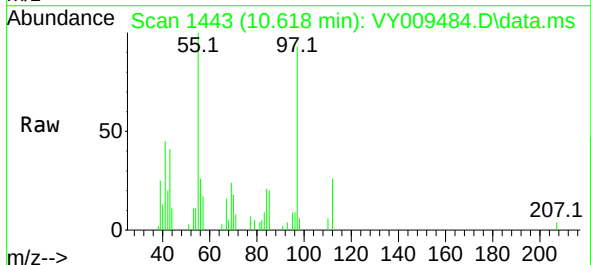
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

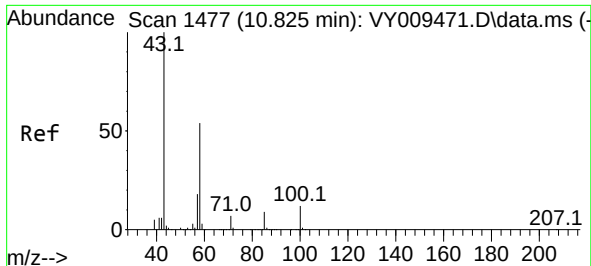
Tgt Ion: 98 Resp: 236039
Ion Ratio Lower Upper
98 100
100 64.9 50.2 75.2



#55
1,1,2-Trichloroethane
Concen: 2.921 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.024 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 97 Resp: 4042
Ion Ratio Lower Upper
97 100
83 6.2 69.8 104.8#
85 21.1 44.3 66.5#
99 0.0 49.8 74.6#

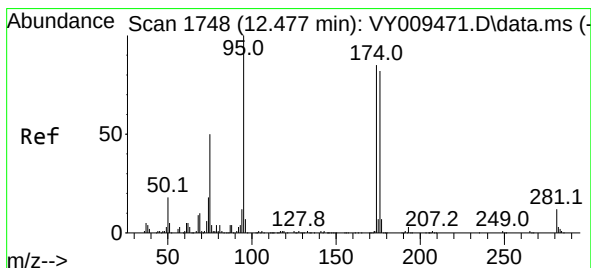
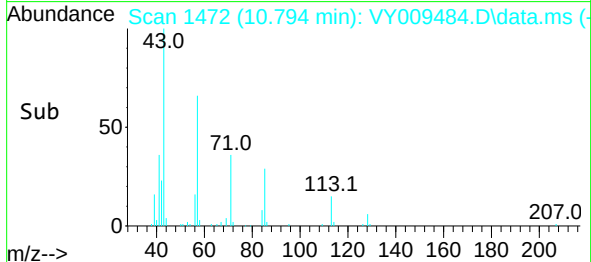
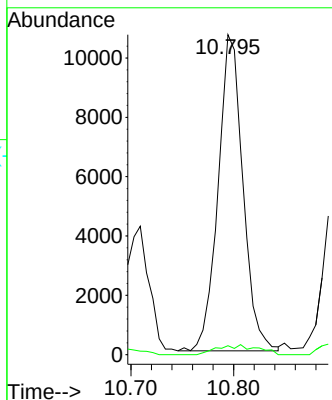
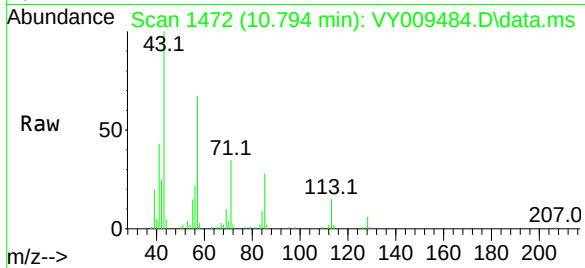




#59
2-Hexanone
Concen: 19.074 ug/l
RT: 10.794 min Scan# 1472
Delta R.T. -0.030 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

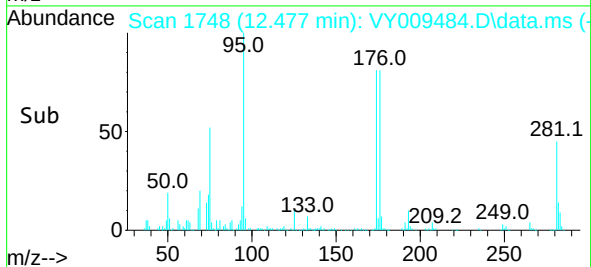
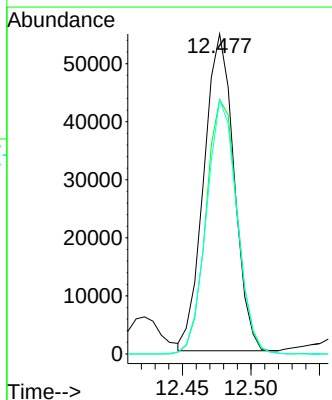
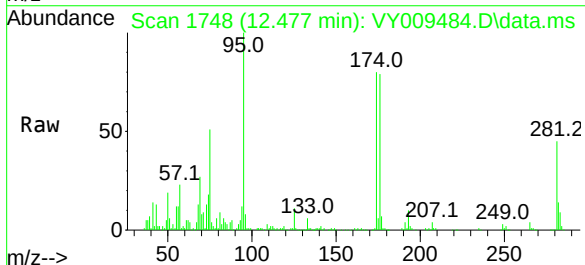
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

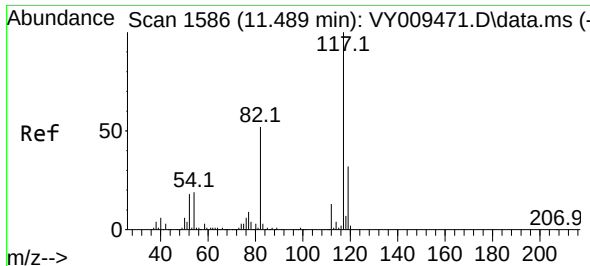
Tgt Ion: 43 Resp: 17877
Ion Ratio Lower Upper
43 100
58 2.4 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 43.754 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 95 Resp: 83426
Ion Ratio Lower Upper
95 100
174 82.9 0.0 177.0
176 81.3 0.0 175.8

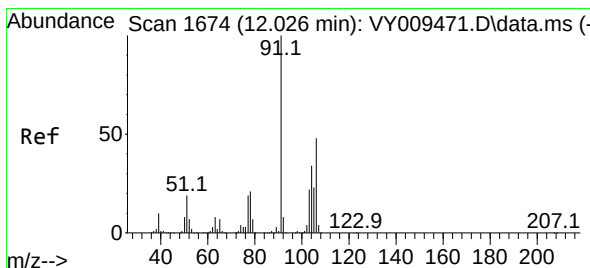
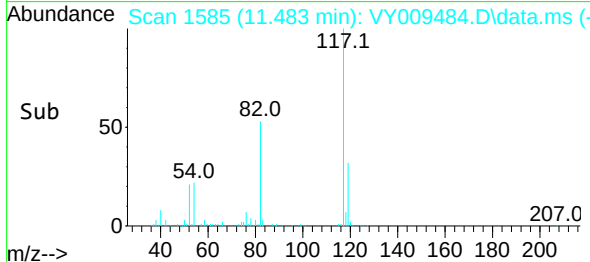
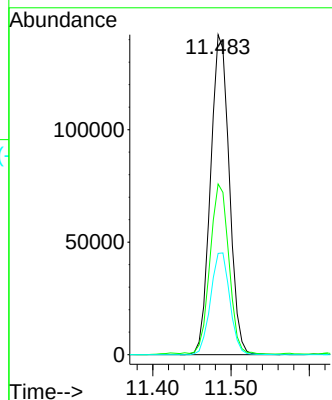
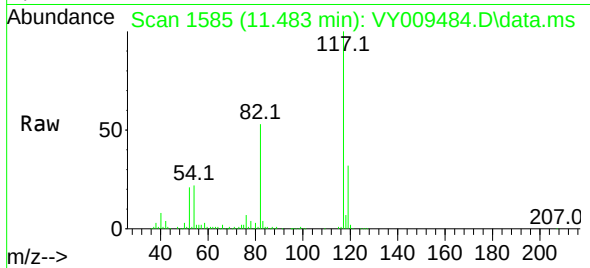




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

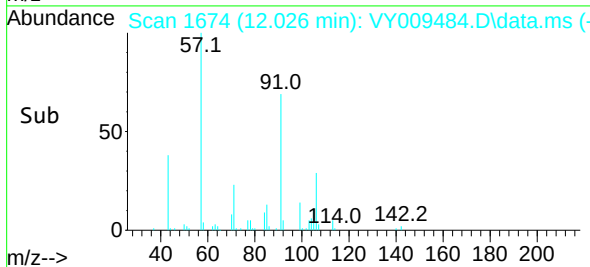
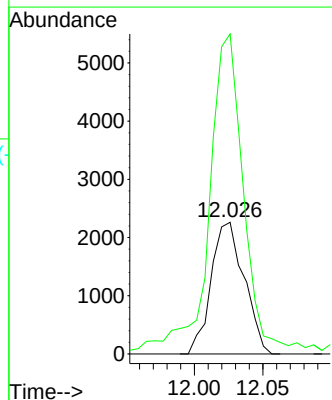
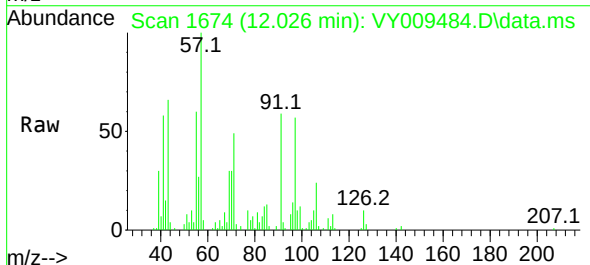
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

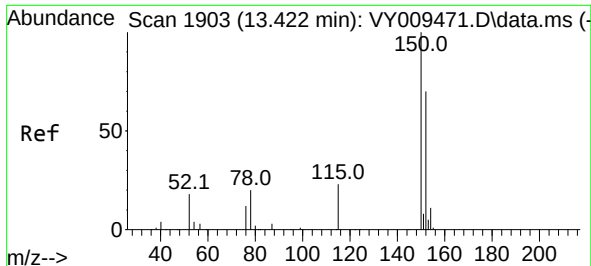
Tgt Ion:117 Resp: 235889
Ion Ratio Lower Upper
117 100
82 53.1 43.0 64.4
119 31.6 25.4 38.0



#69
o-Xylene
Concen: 1.256 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion:106 Resp: 3798
Ion Ratio Lower Upper
106 100
91 258.9 110.3 331.0

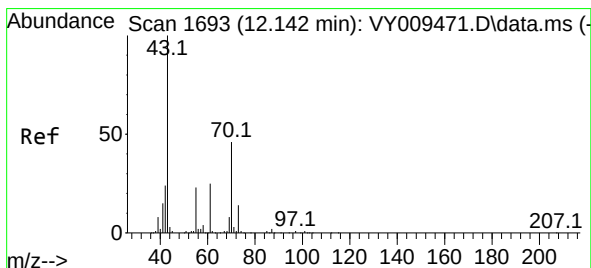
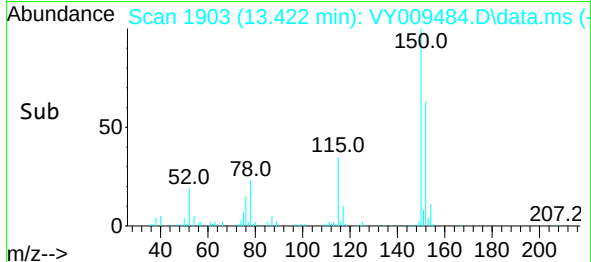
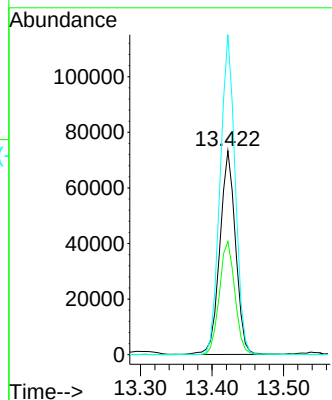
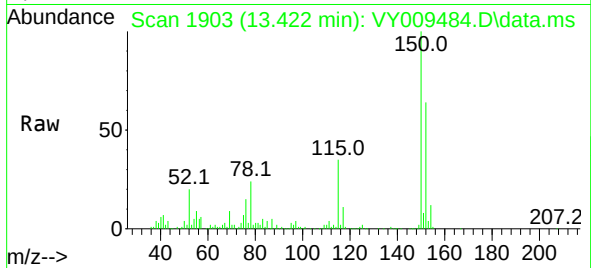




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

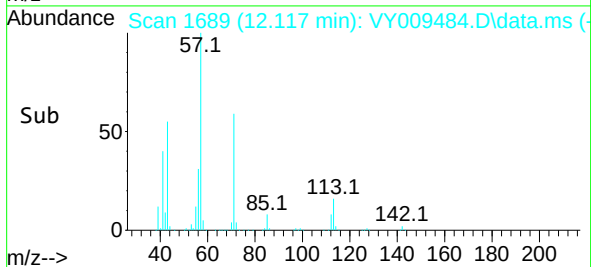
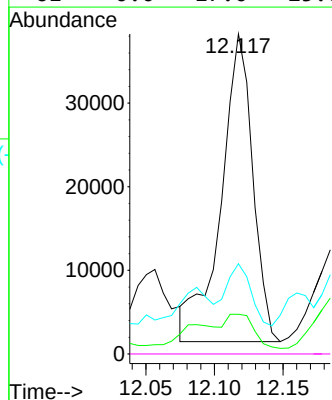
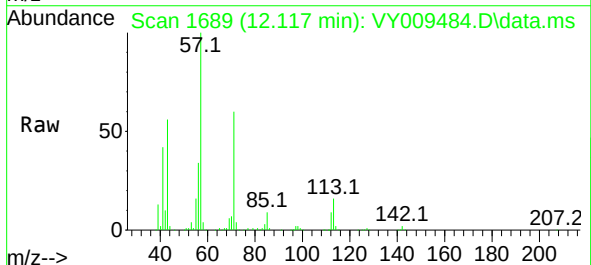
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

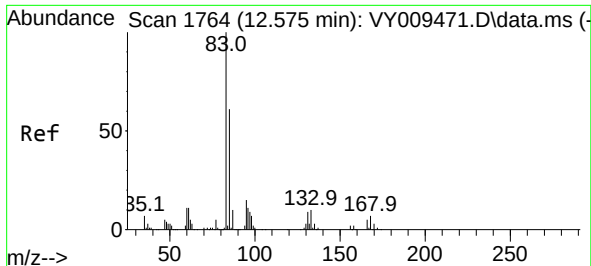
Tgt Ion:152 Resp: 111847
Ion Ratio Lower Upper
152 100
115 54.7 28.2 84.7
150 150.6 0.0 347.6



#74
N-ethyl acetate
Concen: 27.283 ug/l
RT: 12.117 min Scan# 1689
Delta R.T. -0.025 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 43 Resp: 59377
Ion Ratio Lower Upper
43 100
70 9.1 28.7 43.1#
55 21.4 17.3 25.9
61 0.0 17.0 25.6#

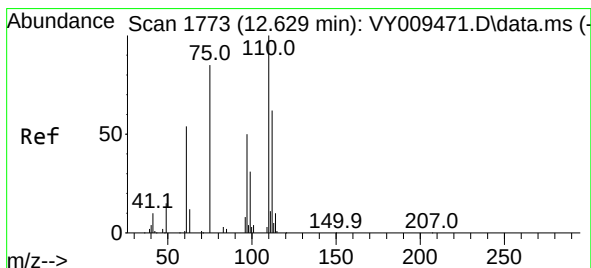
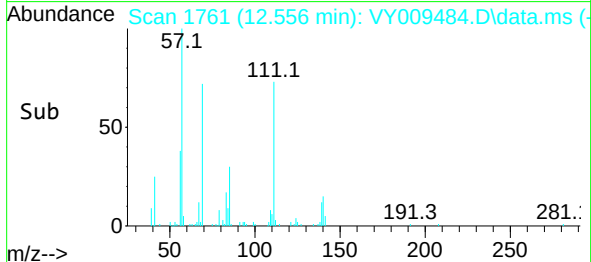
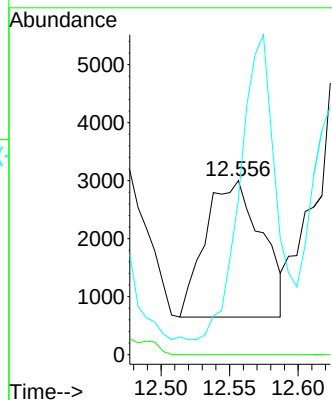
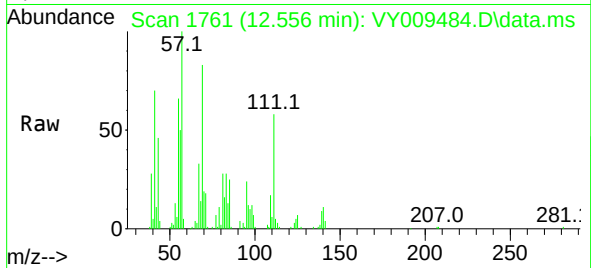




#75
1,1,2,2-Tetrachloroethane
Concen: 4.370 ug/l
RT: 12.556 min Scan# 11
Delta R.T. -0.019 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

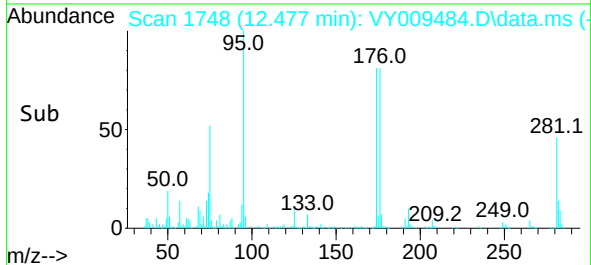
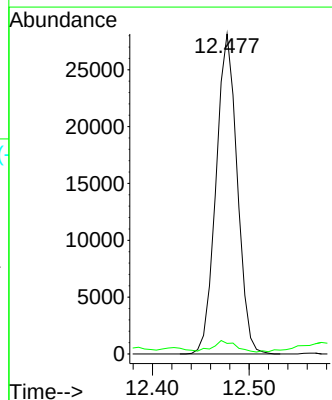
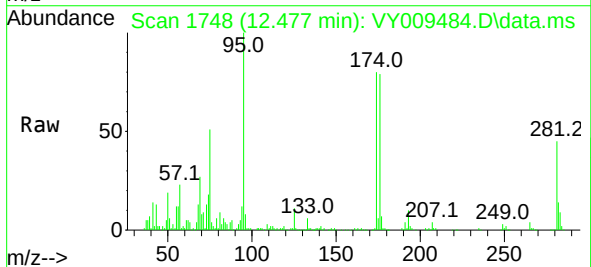
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

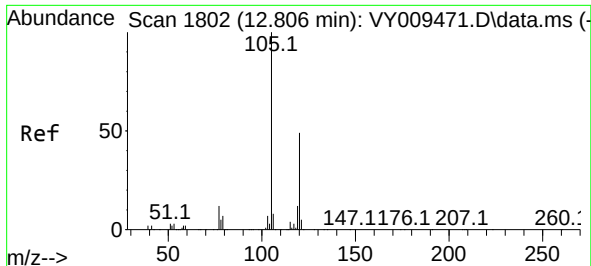
Tgt Ion: 83 Resp: 6693
Ion Ratio Lower Upper
83 100
131 0.0 5.6 16.8#
85 144.0 32.3 96.8#



#76
1,2,3-Trichloropropane
Concen: 36.152 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 75 Resp: 42803
Ion Ratio Lower Upper
75 100
77 3.6 0.0 0.0#

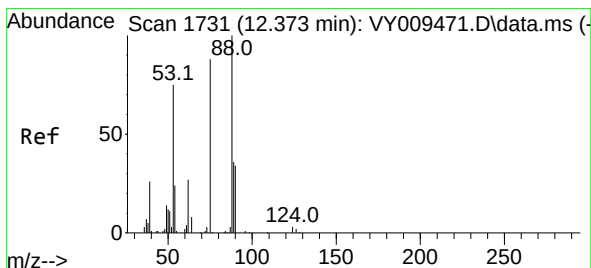
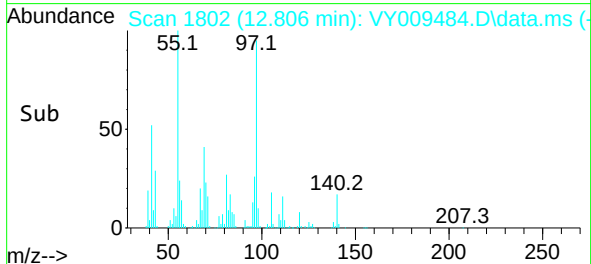
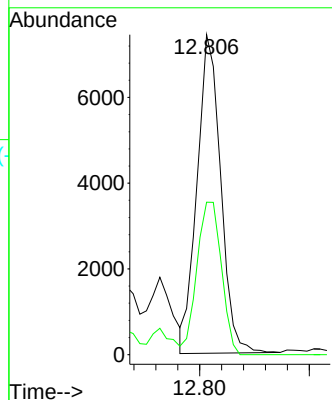
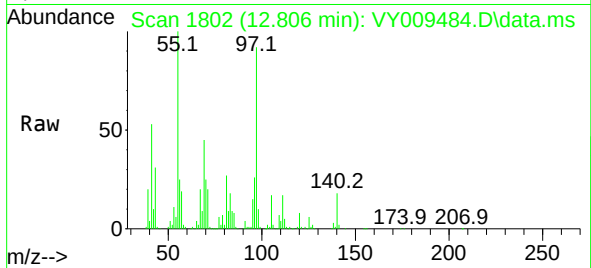




#80
1,3,5-Trimethylbenzene
Concen: 1.736 ug/l
RT: 12.806 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

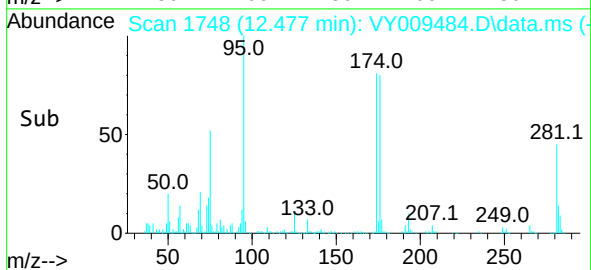
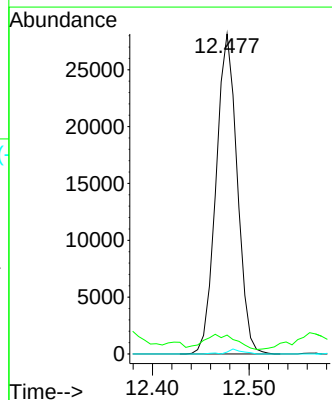
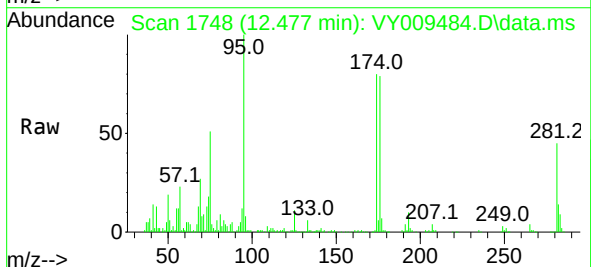
Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A

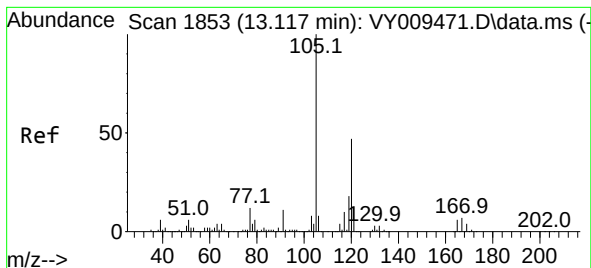
Tgt Ion:105 Resp: 11101
Ion Ratio Lower Upper
105 100
120 49.8 24.4 73.4



#81
trans-1,4-Dichloro-2-butene
Concen: 73.989 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Tgt Ion: 75 Resp: 42803
Ion Ratio Lower Upper
75 100
53 7.1 85.3 127.9#
89 1.1 37.0 55.4#





#84

1,2,4-Trimethylbenzene

Concen: 2.449 ug/l

RT: 13.117 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY009484.D

Acq: 08 Jul 2022 15:49

Instrument :

MSVOA_Y

ClientSampleId :

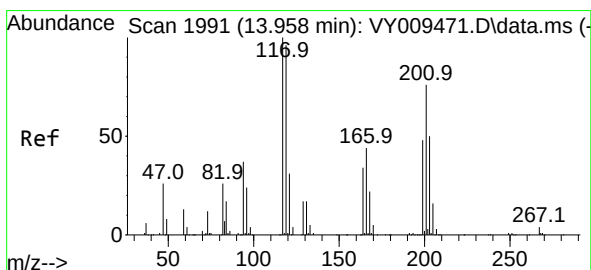
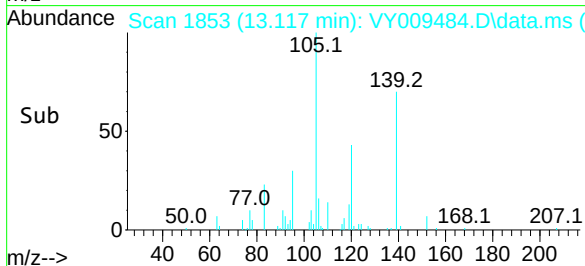
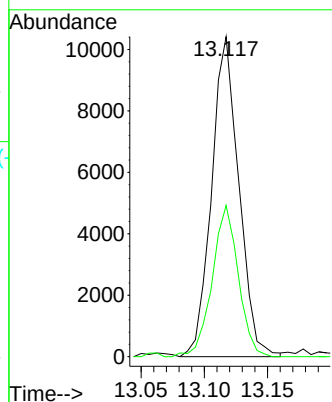
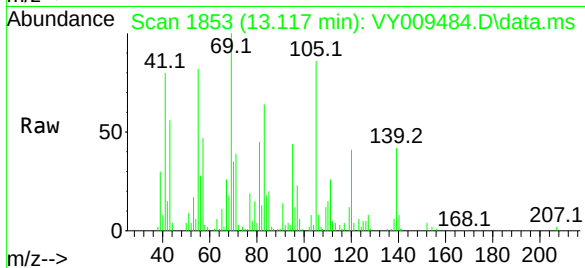
20220488A-6A

Tgt Ion:105 Resp: 15588

Ion Ratio Lower Upper

105 100

120 45.2 22.3 66.9



#90

Hexachloroethane

Concen: 1.085 ug/l

RT: 13.965 min Scan# 1992

Delta R.T. 0.007 min

Lab File: VY009484.D

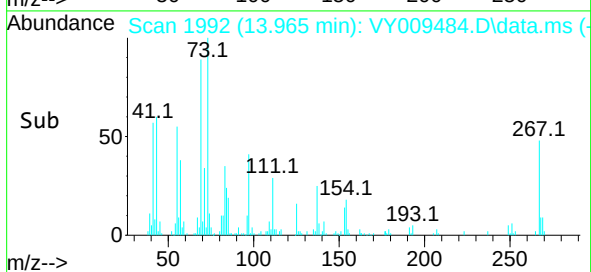
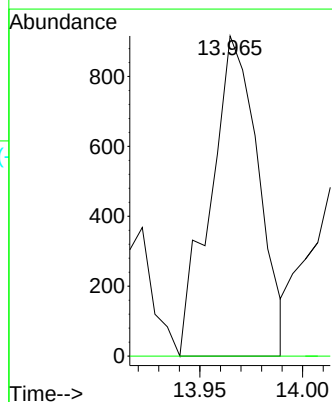
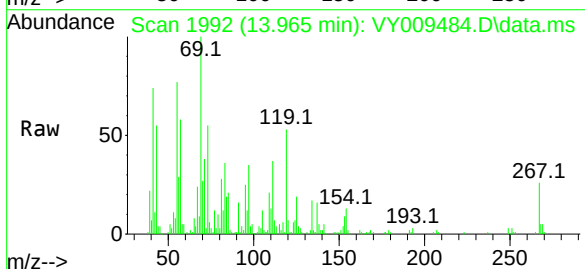
Acq: 08 Jul 2022 15:49

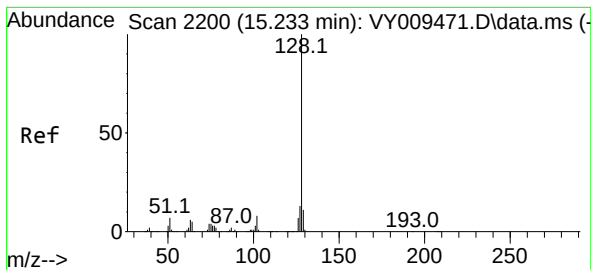
Tgt Ion:117 Resp: 1486

Ion Ratio Lower Upper

117 100

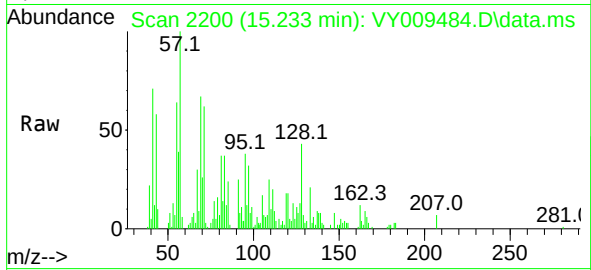
201 0.0 43.0 128.8#





#95
Naphthalene
Concen: 1.322 ug/l
RT: 15.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY009484.D
Acq: 08 Jul 2022 15:49

Instrument :
MSVOA_Y
ClientSampleId :
20220488A-6A



Tgt Ion:128 Resp: 5616
Ion Ratio Lower Upper
128 100
127 34.0 11.0 16.4#
129 19.1 8.4 12.6#

