

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070822\
 Data File : VY009489.D
 Acq On : 08 Jul 2022 17:46
 Operator : KP/MD
 Sample : N3595-09
 Misc : 4.47g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 20220489C-7C

Quant Time: Jul 11 02:15:43 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)

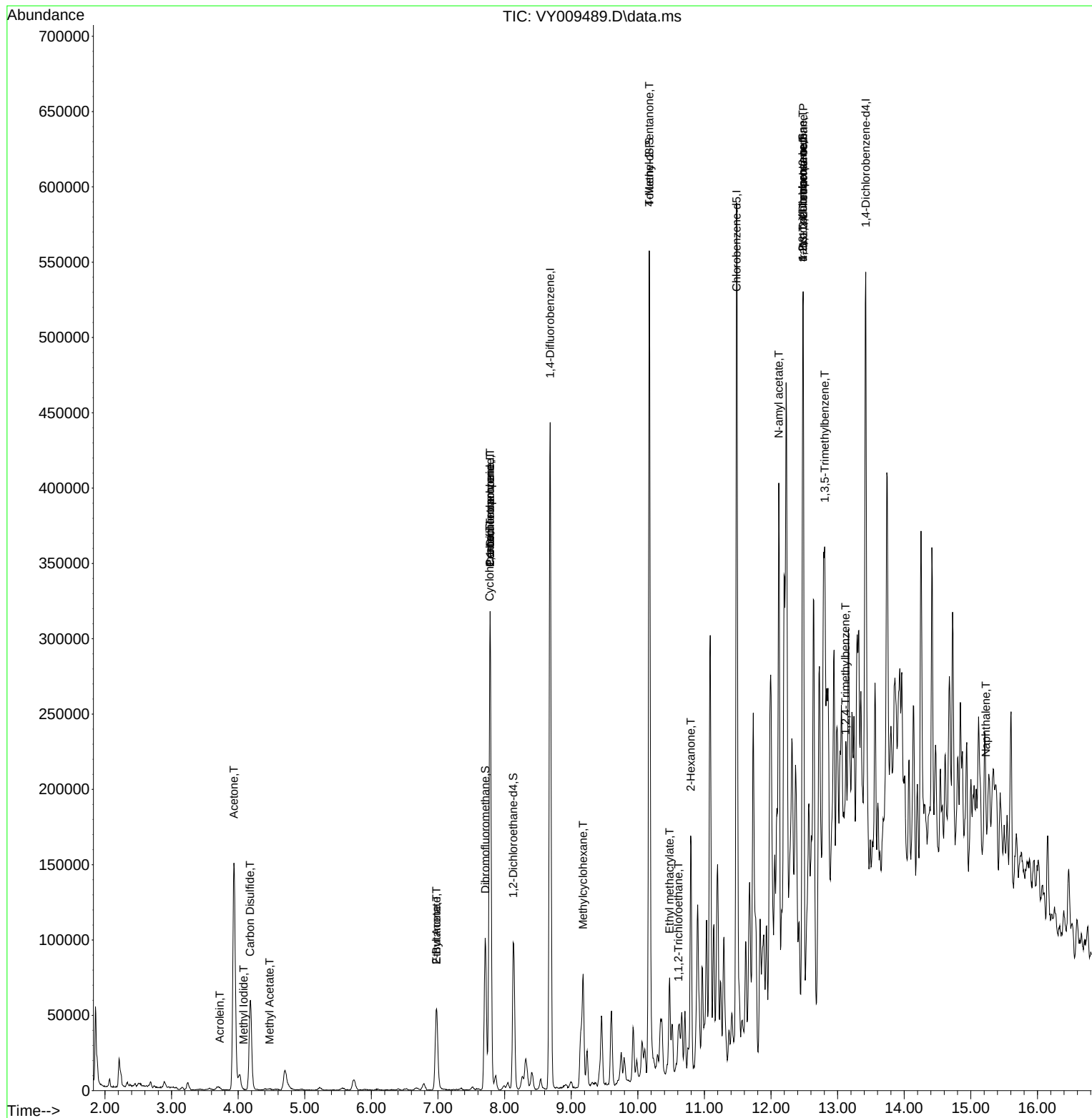
Internal Standards						
1) Pentafluorobenzene	7.783	168	242353	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	376366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	296319	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	105103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	74195	42.487	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	84.980%		
35) Dibromofluoromethane	7.710	113	70228	35.463	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	70.920%		
50) Toluene-d8	10.173	98	283406	52.623	ug/l	0.00
Spiked Amount 50.000	Range 78 - 125		Recovery =	105.240%		
62) 4-Bromofluorobenzene	12.477	95	92136	32.960	ug/l	0.00
Spiked Amount 50.000	Range 50 - 146		Recovery =	65.920%		
Target Compounds						Qvalue
10) Methyl Iodide	4.082	142	22	4.169	ug/l #	35
11) Tert butyl alcohol	4.942	59	768	Below Cal	#	84
13) Acrolein	3.723	56	1536	37.280	ug/l #	14
16) Acetone	3.936	43	259383	439.960	ug/l	90
17) Carbon Disulfide	4.180	76	120785	21.133	ug/l	98
18) Methyl Acetate	4.472	43	2067	1.194	ug/l	93
20) Methylene Chloride	4.704	84	9234	Below Cal		87
23) Vinyl Acetate	6.003	43	29	Below Cal	#	75
25) 2-Butanone	6.978	43	86549	90.749	ug/l	93
31) Cyclohexane	7.777	56	8852	2.226	ug/l #	28
36) 1,1-Dichloropropene	7.783	75	17641	5.472	ug/l #	51
37) Ethyl Acetate	6.978	43	86549	42.826	ug/l #	72
38) Carbon Tetrachloride	7.783	117	23216	6.733	ug/l #	14
39) Methylcyclohexane	9.179	83	28727	7.423	ug/l	96
51) 4-Methyl-2-Pentanone	10.173	43	6750	3.404	ug/l	89
55) 1,1,2-Trichloroethane	10.612	97	11777	5.805	ug/l #	21
56) Ethyl methacrylate	10.478	69	21898	8.130	ug/l #	62
59) 2-Hexanone	10.795	43	62351	45.376	ug/l #	34
74) N-amyl acetate	12.117	43	81658	39.928	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	12.483	83	6892	4.789	ug/l	66
76) 1,2,3-Trichloropropane	12.477	75	44161	39.692	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.806	105	8441	1.405	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.477	75	44161	81.235	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.117	105	8024	1.342	ug/l	96
95) Naphthalene	15.227	128	5855	1.467	ug/l #	55

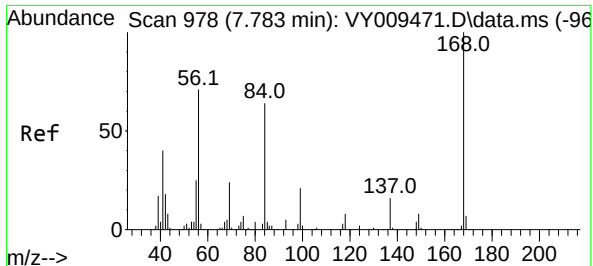
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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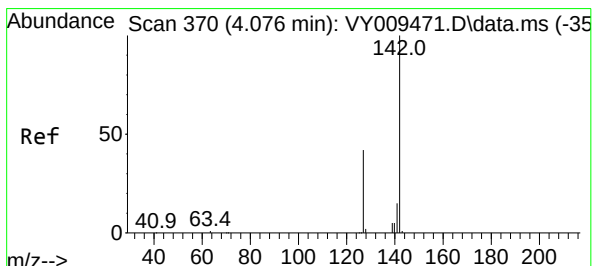
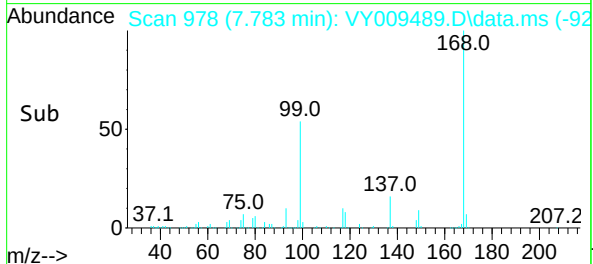
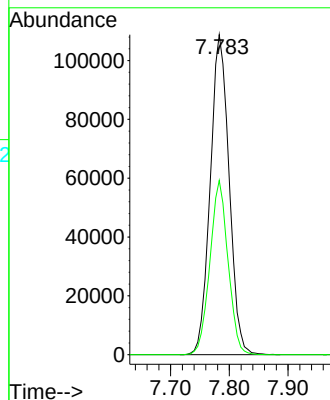
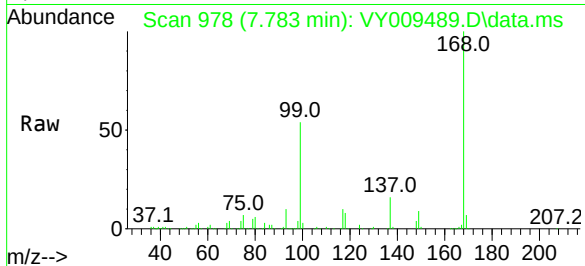




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

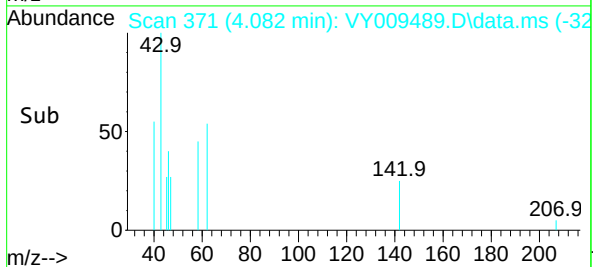
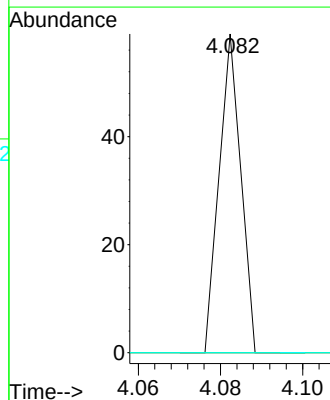
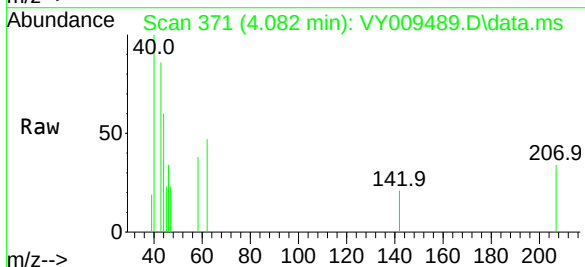
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

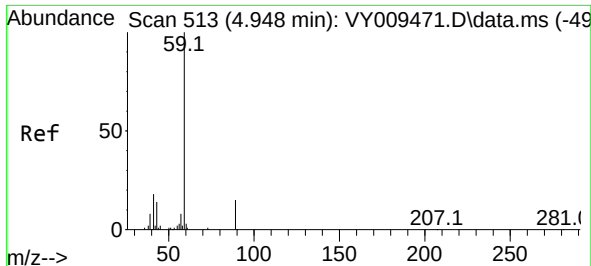
Tgt Ion:168 Resp: 242353
Ion Ratio Lower Upper
168 100
99 54.4 46.9 70.3



#10
Methyl Iodide
Concen: 4.169 ug/l
RT: 4.082 min Scan# 371
Delta R.T. 0.006 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion:142 Resp: 22
Ion Ratio Lower Upper
142 100
127 0.0 41.5 62.3#
141 0.0 11.9 17.9#

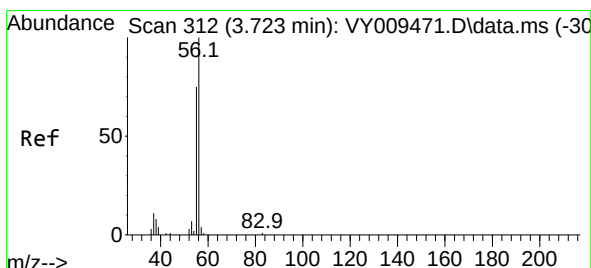
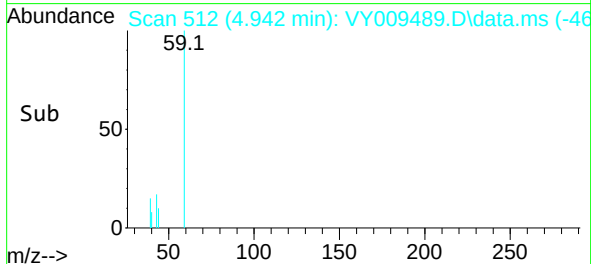
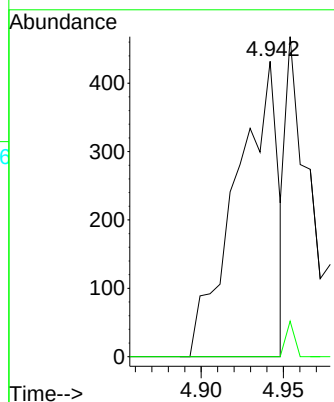
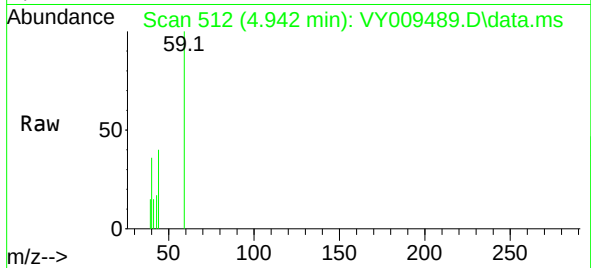




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.942 min Scan# 513
Delta R.T. -0.006 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

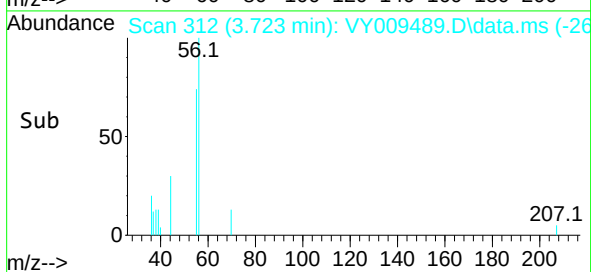
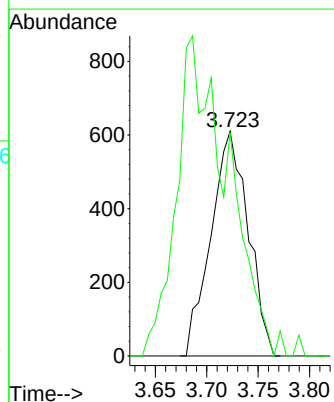
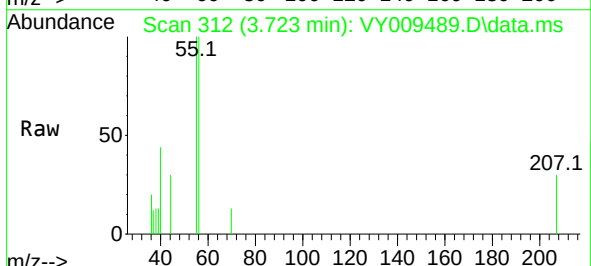
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

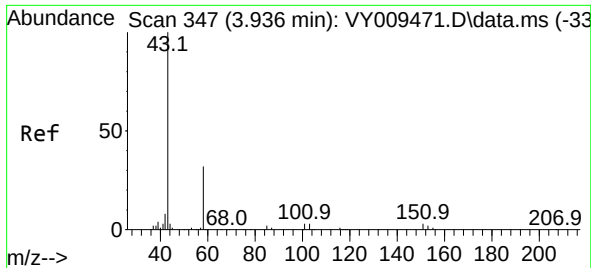
Tgt Ion: 59 Resp: 768
Ion Ratio Lower Upper
59 100
57 2.5 6.4 9.6#



#13
Acrolein
Concen: 37.280 ug/l
RT: 3.723 min Scan# 312
Delta R.T. -0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 56 Resp: 1536
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#

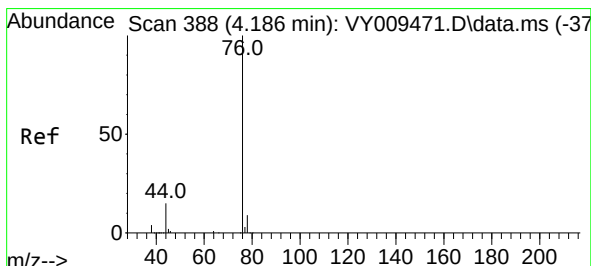
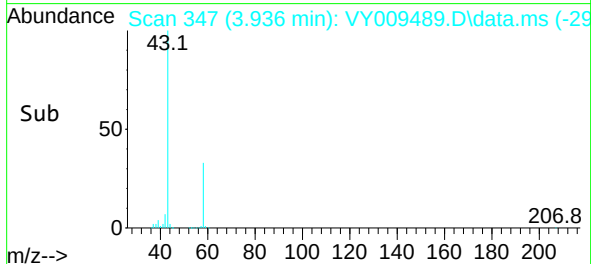
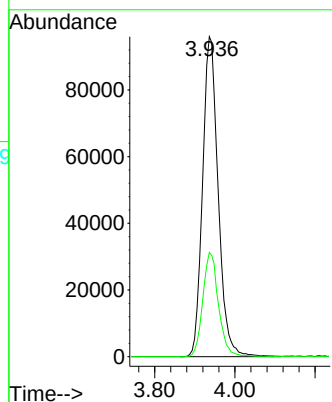
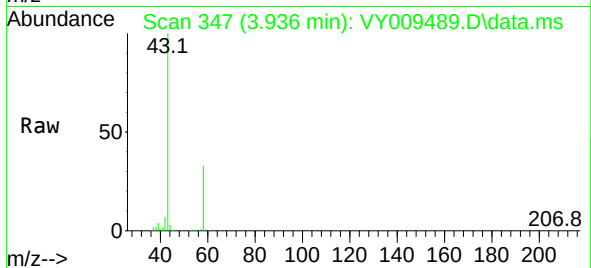




#16
Acetone
Concen: 439.960 ug/l
RT: 3.936 min Scan# 347
Delta R.T. 0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

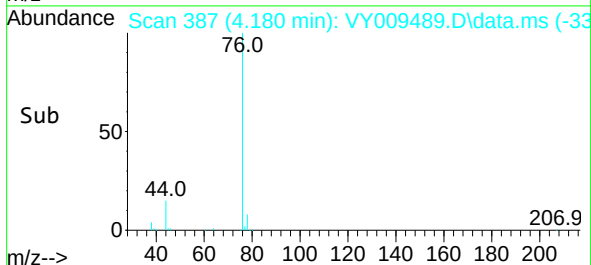
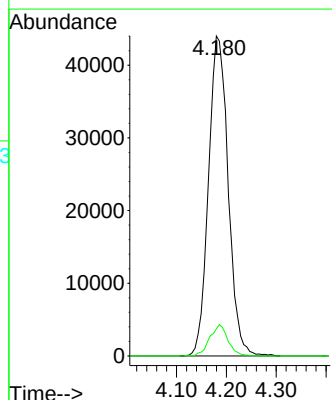
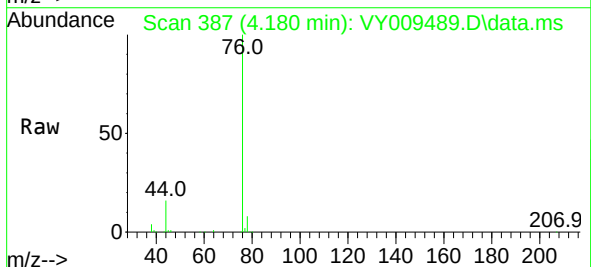
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

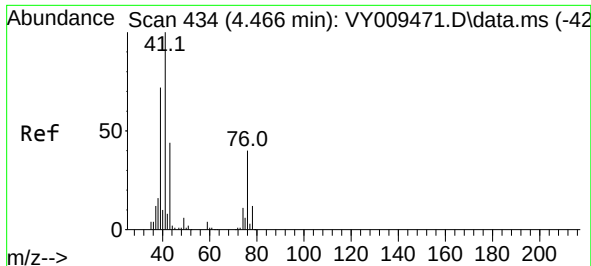
Tgt Ion: 43 Resp: 259383
Ion Ratio Lower Upper
43 100
58 32.5 22.0 33.0



#17
Carbon Disulfide
Concen: 21.133 ug/l
RT: 4.180 min Scan# 387
Delta R.T. -0.006 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 76 Resp: 120785
Ion Ratio Lower Upper
76 100
78 8.4 7.4 11.0

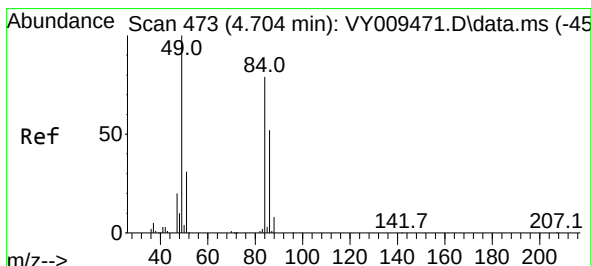
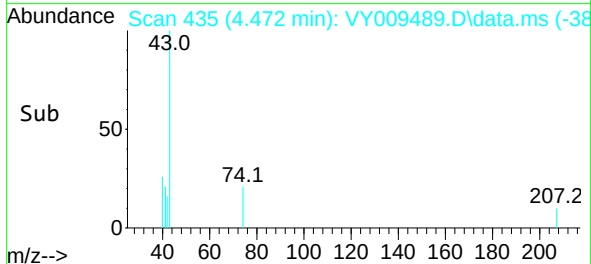
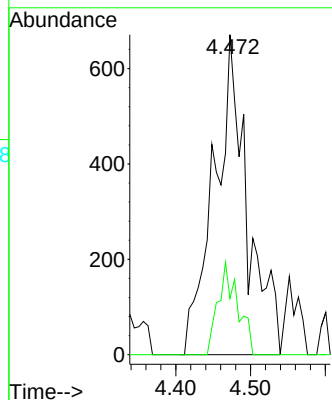
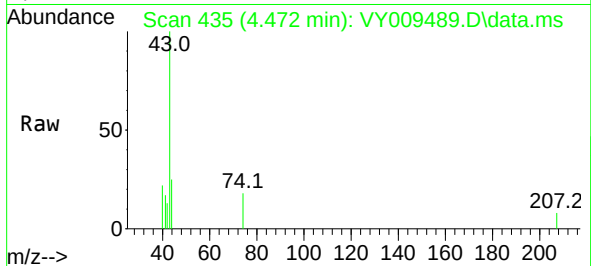




#18
Methyl Acetate
Concen: 1.194 ug/l
RT: 4.472 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

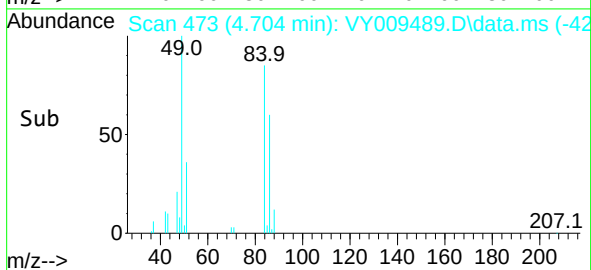
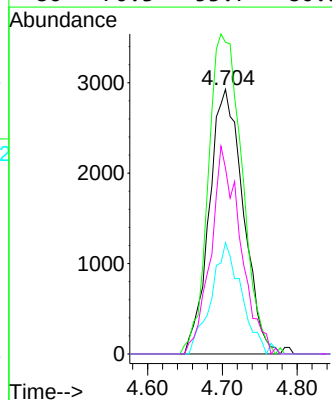
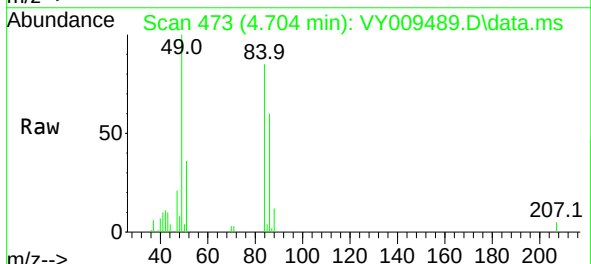
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

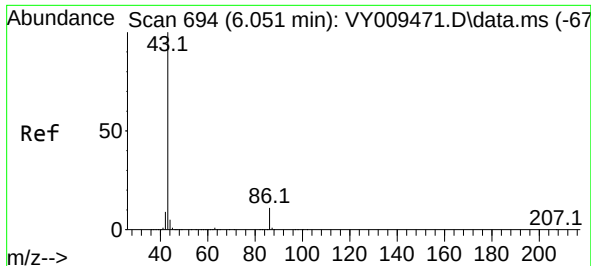
Tgt Ion: 43 Resp: 2067
Ion Ratio Lower Upper
43 100
74 17.3 16.6 24.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 84 Resp: 9234
Ion Ratio Lower Upper
84 100
49 117.8 114.4 171.6
51 42.0 35.3 52.9
86 70.3 53.7 80.5

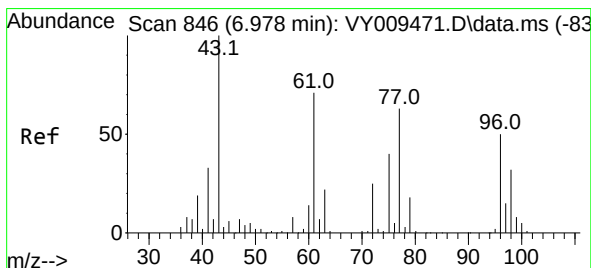
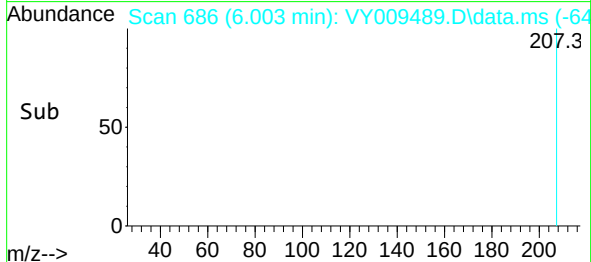
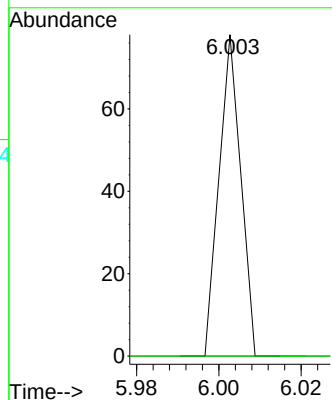
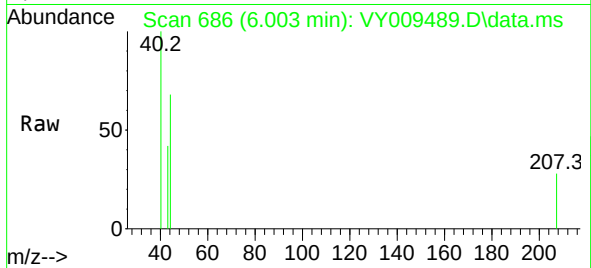




#23
 Vinyl Acetate
 Concen: Below Cal
 RT: 6.003 min Scan# 61
 Delta R.T. -0.048 min
 Lab File: VY009489.D
 Acq: 08 Jul 2022 17:46

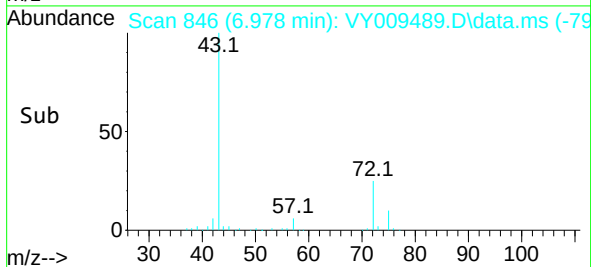
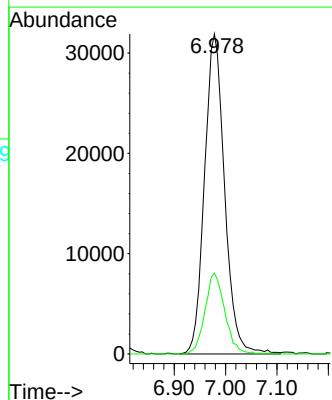
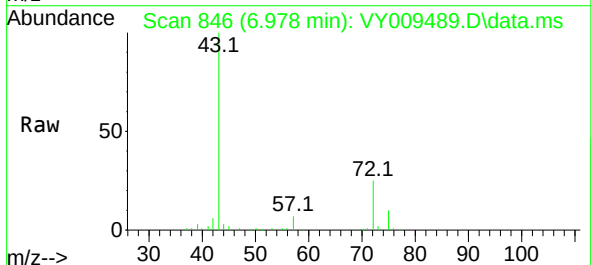
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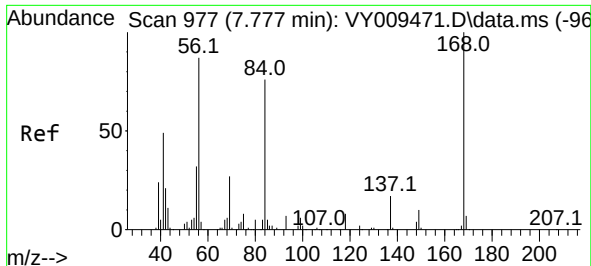
Tgt Ion: 43 Resp: 29
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 90.749 ug/l
 RT: 6.978 min Scan# 846
 Delta R.T. 0.000 min
 Lab File: VY009489.D
 Acq: 08 Jul 2022 17:46

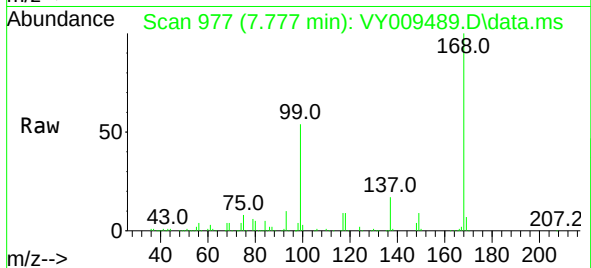
Tgt Ion: 43 Resp: 86549
 Ion Ratio Lower Upper
 43 100
 72 25.2 17.7 26.5



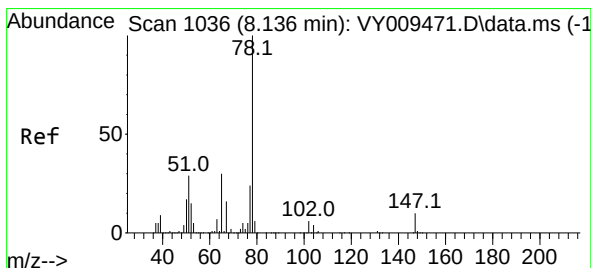
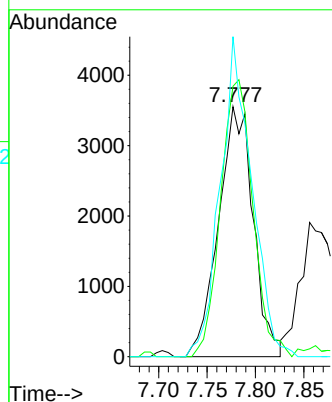
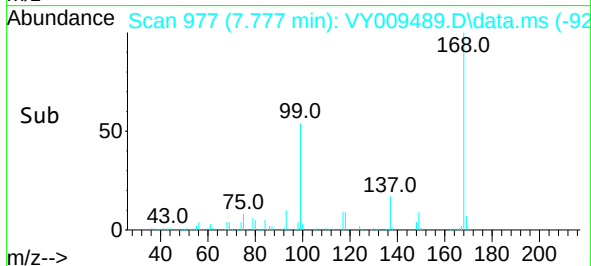


#31
Cyclohexane
Concen: 2.226 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

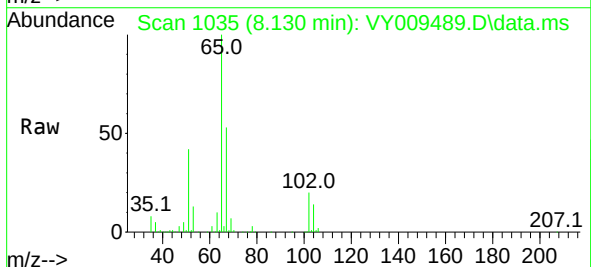
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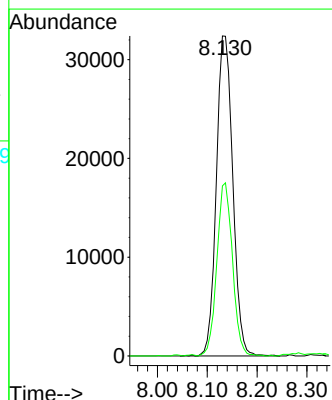
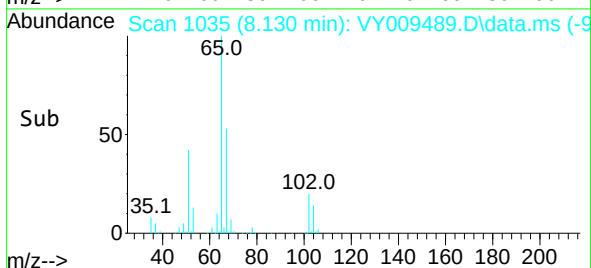
Tgt Ion: 56 Resp: 8852
Ion Ratio Lower Upper
56 100
69 108.2 26.7 40.1#
84 128.1 67.2 100.8#

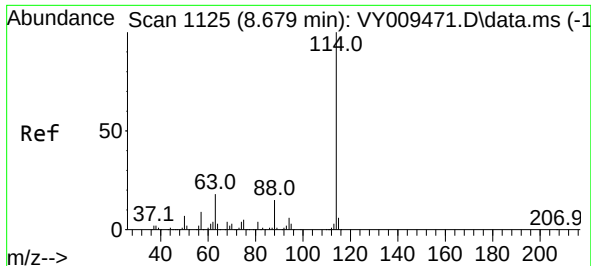


#33
1,2-Dichloroethane-d4
Concen: 42.487 ug/l
RT: 8.130 min Scan# 1035
Delta R.T. -0.006 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46



Tgt Ion: 65 Resp: 74195
Ion Ratio Lower Upper
65 100
67 51.4 0.0 99.4

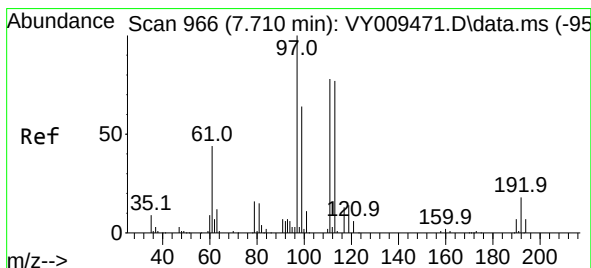
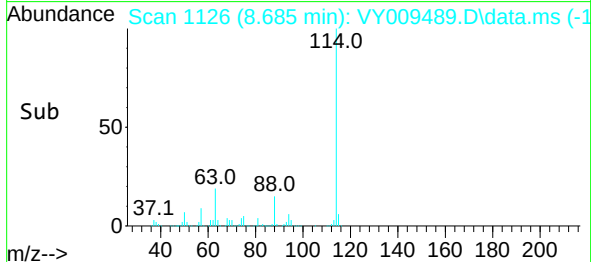
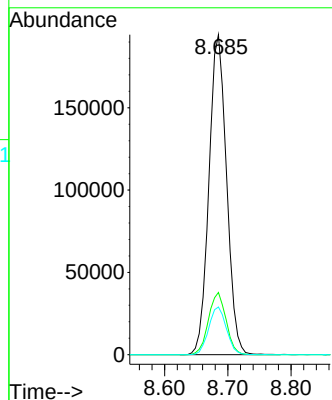
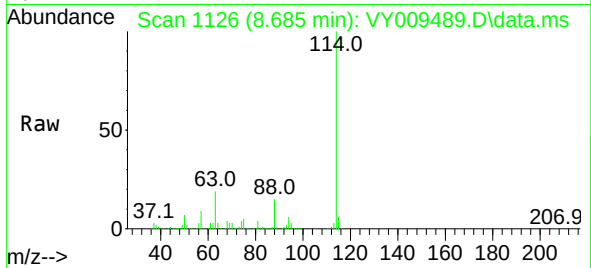




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

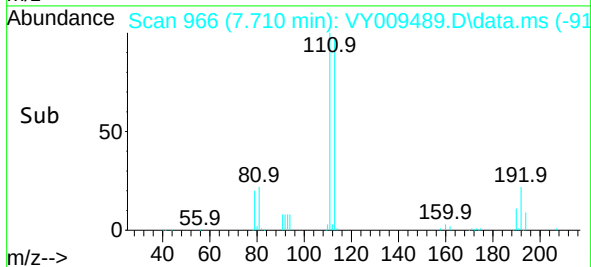
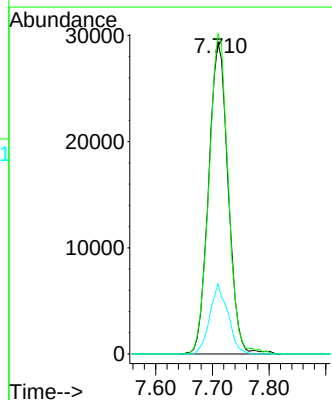
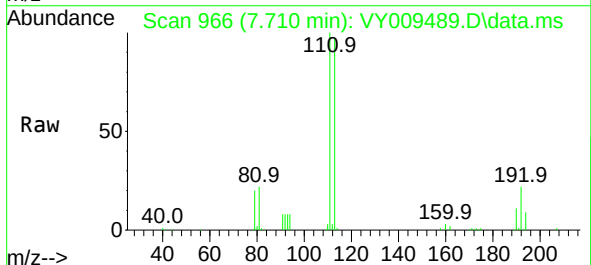
Instrument :
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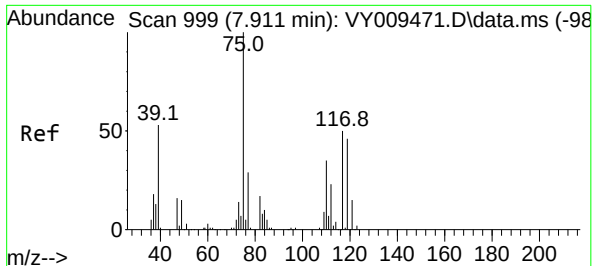
Tgt Ion:114 Resp: 376366
Ion Ratio Lower Upper
114 100
63 19.4 0.0 43.2
88 14.9 0.0 31.8



#35
Dibromofluoromethane
Concen: 35.463 ug/l
RT: 7.710 min Scan# 966
Delta R.T. -0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion:113 Resp: 70228
Ion Ratio Lower Upper
113 100
111 101.5 82.6 124.0
192 20.9 17.6 26.4

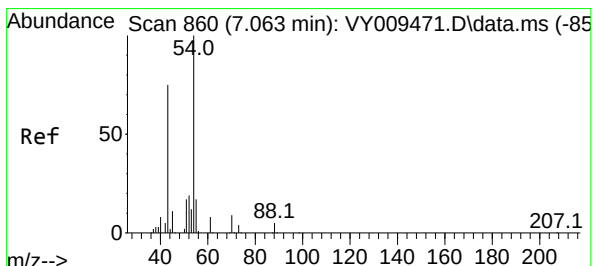
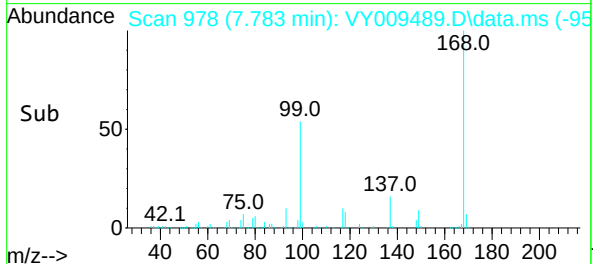
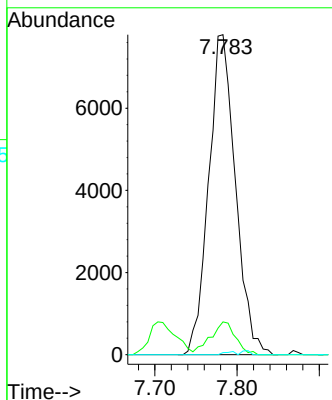
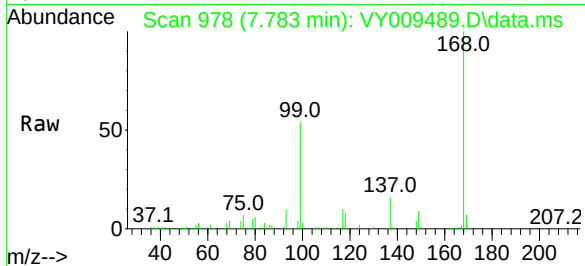




#36
1,1-Dichloropropene
Concen: 5.472 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

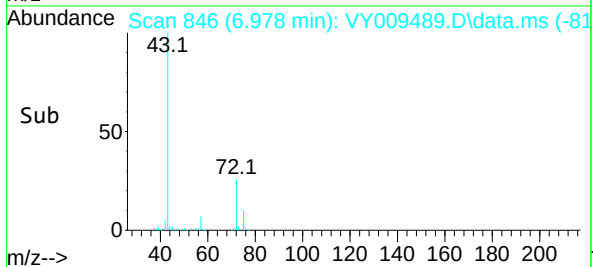
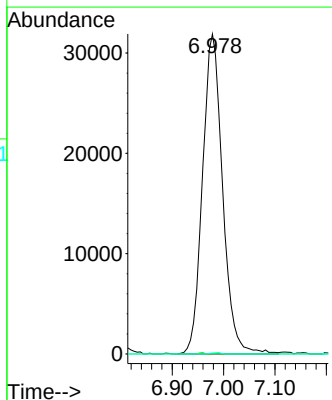
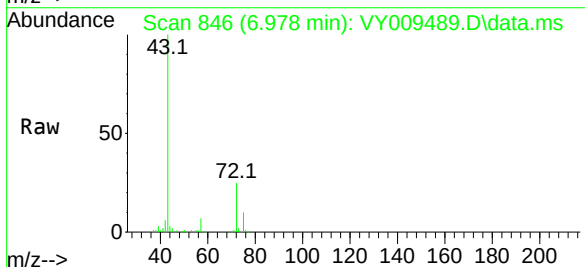
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

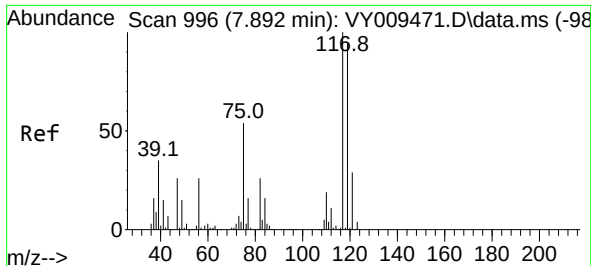
Tgt Ion: 75 Resp: 17641
Ion Ratio Lower Upper
75 100
110 9.6 17.1 51.2#
77 0.4 24.4 36.6#



#37
Ethyl Acetate
Concen: 42.826 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.085 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 43 Resp: 86549
Ion Ratio Lower Upper
43 100
61 0.1 9.7 14.5#
70 0.2 7.1 10.7#

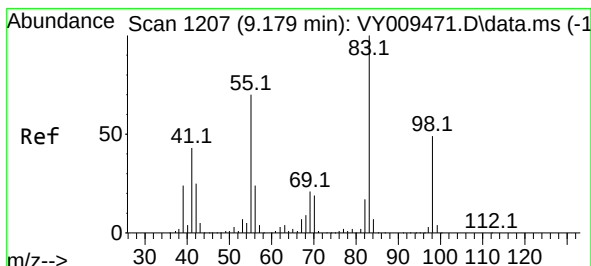
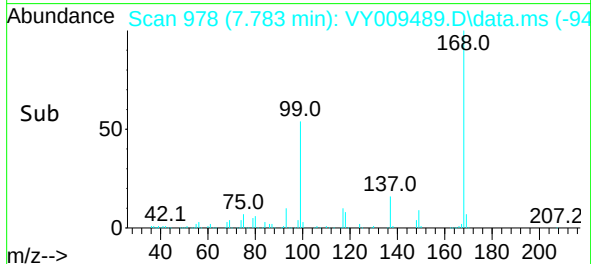
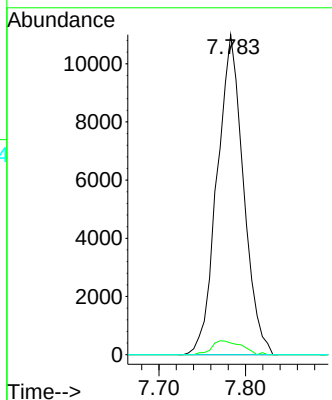
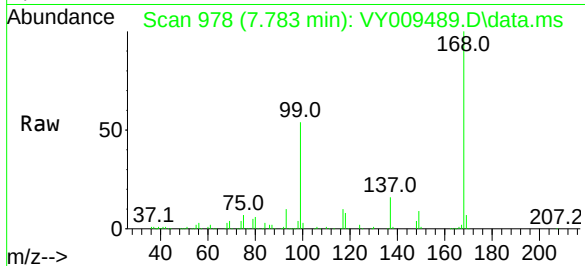




#38
Carbon Tetrachloride
Concen: 6.733 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.109 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

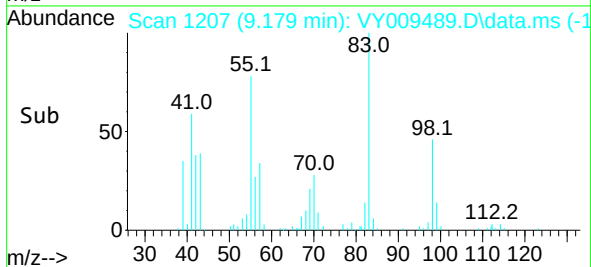
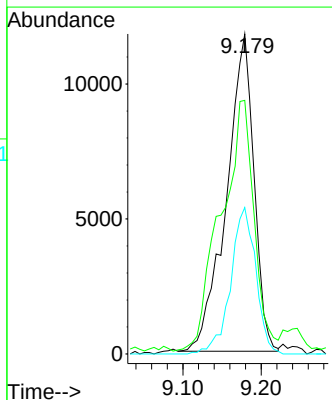
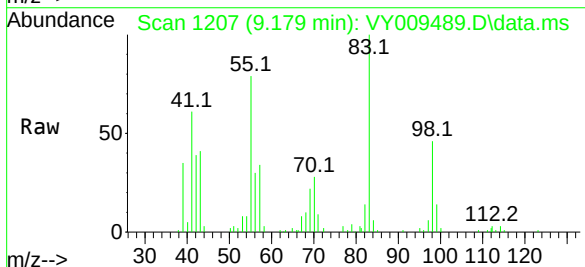
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

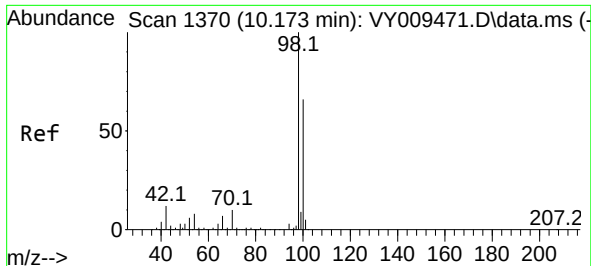
Tgt Ion:117 Resp: 23216
Ion Ratio Lower Upper
117 100
119 3.7 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: 7.423 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 83 Resp: 28727
Ion Ratio Lower Upper
83 100
55 78.7 66.5 99.7
98 46.1 37.9 56.9

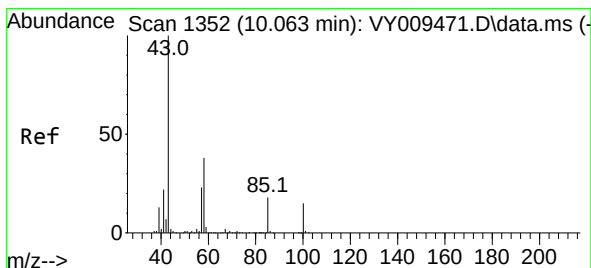
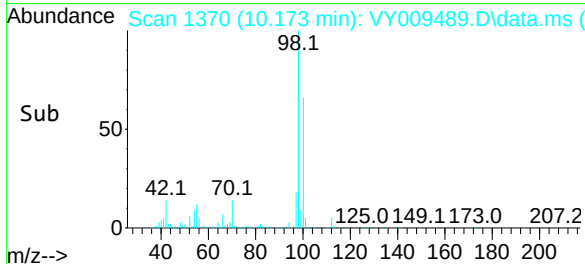
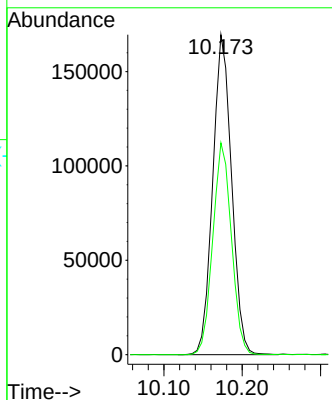
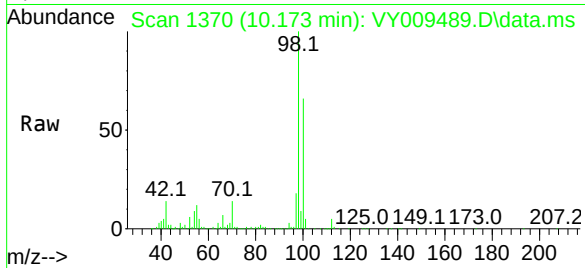




#50
Toluene-d8
Concen: 52.623 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

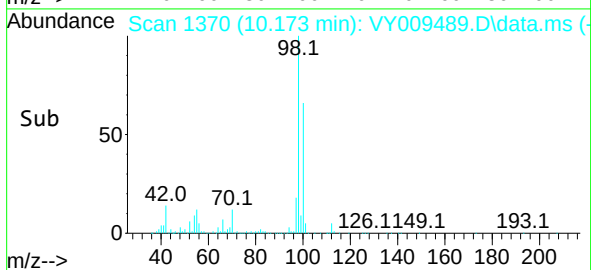
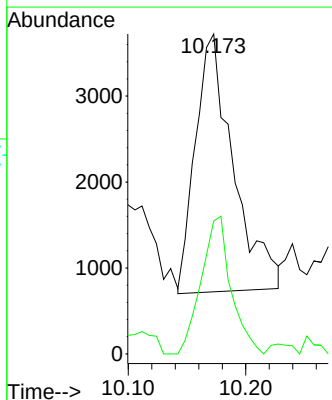
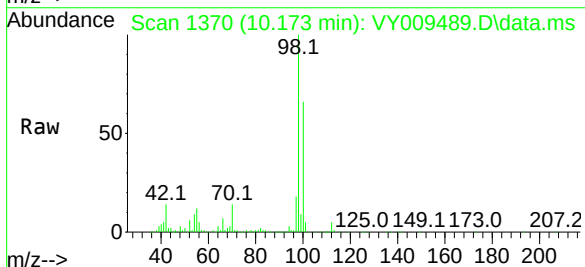
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

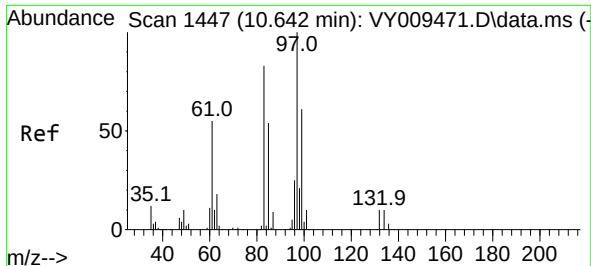
Tgt Ion: 98 Resp: 283406
Ion Ratio Lower Upper
98 100
100 65.6 50.2 75.2



#51
4-Methyl-2-Pentanone
Concen: 3.404 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. 0.110 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 43 Resp: 6750
Ion Ratio Lower Upper
43 100
58 41.7 28.1 42.1

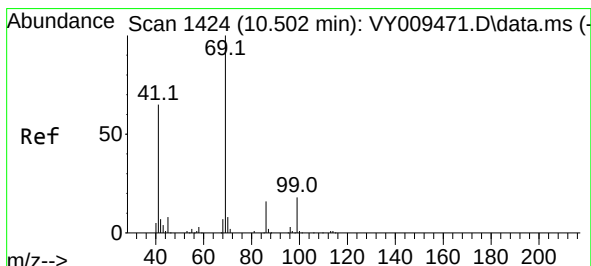
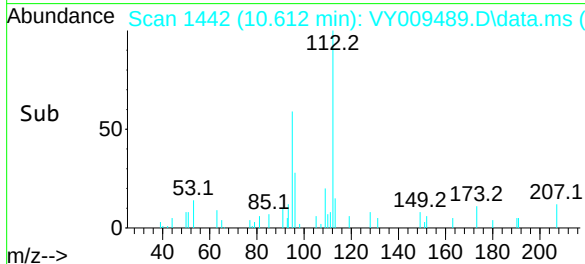
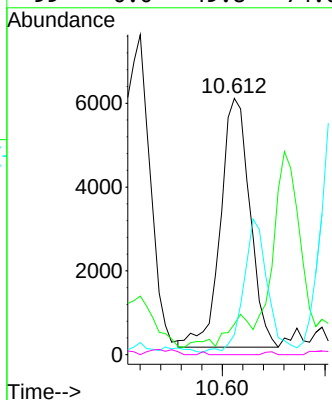
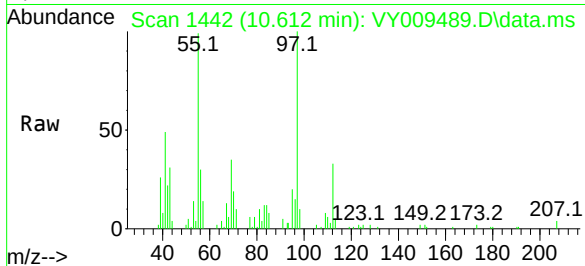




#55
1,1,2-Trichloroethane
Concen: 5.805 ug/l
RT: 10.612 min Scan# 1442
Delta R.T. -0.030 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

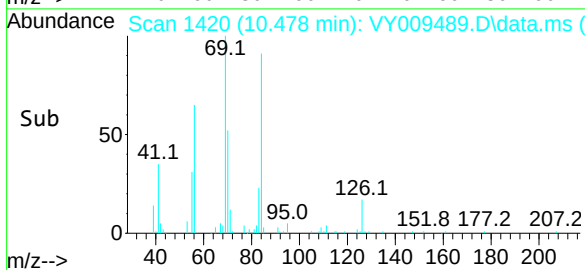
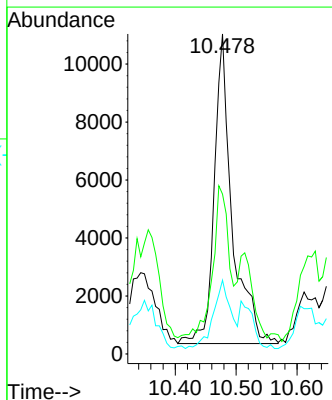
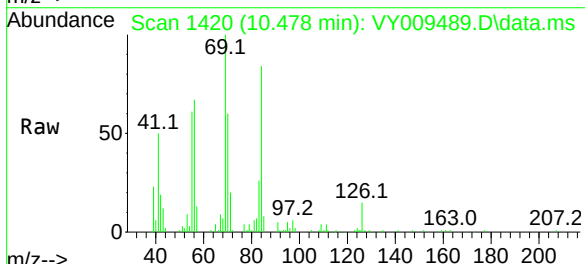
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

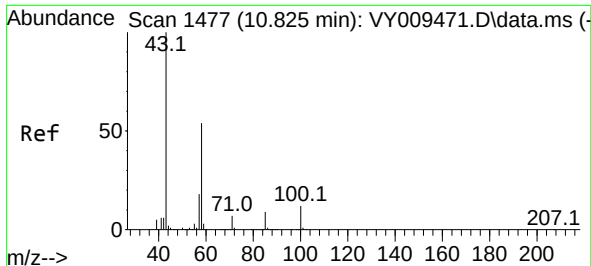
Tgt Ion: 97	Resp: 11777
Ion Ratio	Lower Upper
97 100	
83 9.0	69.8 104.8#
85 5.3	44.3 66.5#
99 0.0	49.8 74.6#



#56
Ethyl methacrylate
Concen: 8.130 ug/l
RT: 10.478 min Scan# 1420
Delta R.T. -0.024 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 69	Resp: 21898
Ion Ratio	Lower Upper
69 100	
41 44.1	63.4 95.0#
39 21.5	35.8 53.8#

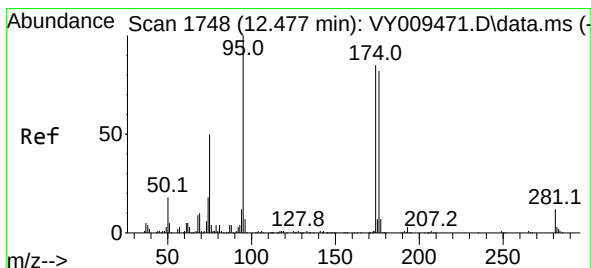
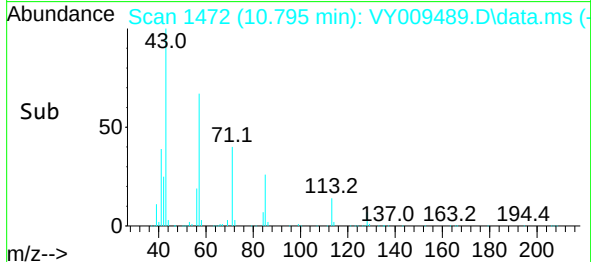
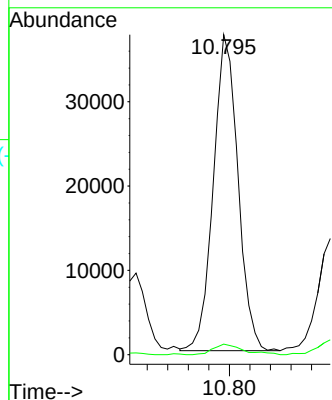
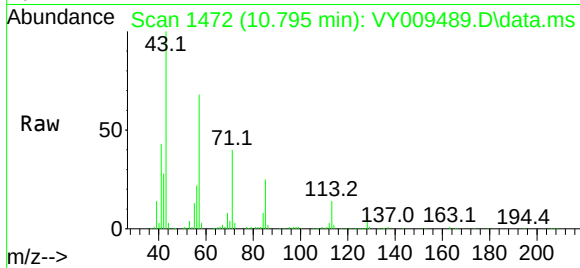




#59
2-Hexanone
Concen: 45.376 ug/l
RT: 10.795 min Scan# 1477
Delta R.T. -0.030 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

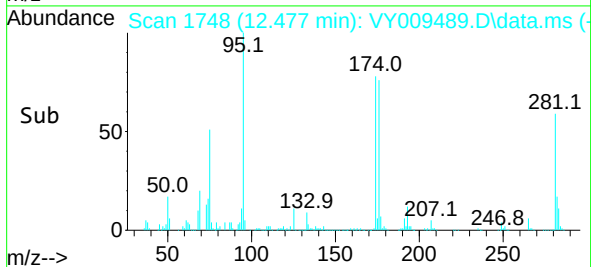
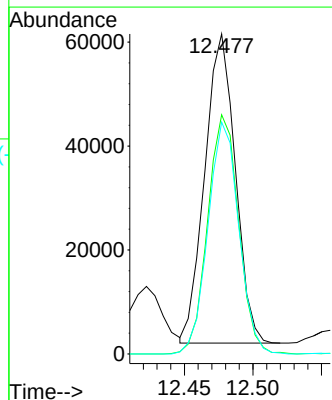
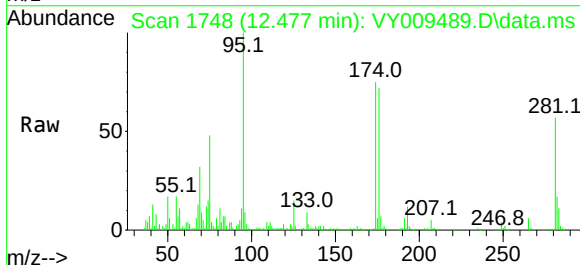
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

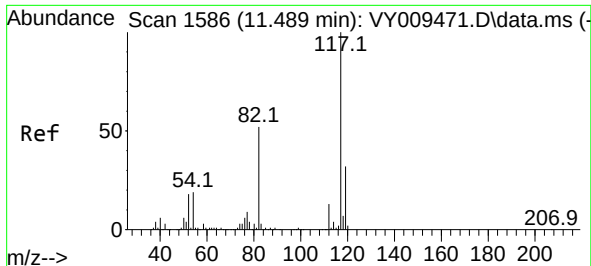
Tgt Ion: 43 Resp: 62351
Ion Ratio Lower Upper
43 100
58 4.0 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 32.960 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 95 Resp: 92136
Ion Ratio Lower Upper
95 100
174 78.3 0.0 177.0
176 75.5 0.0 175.8

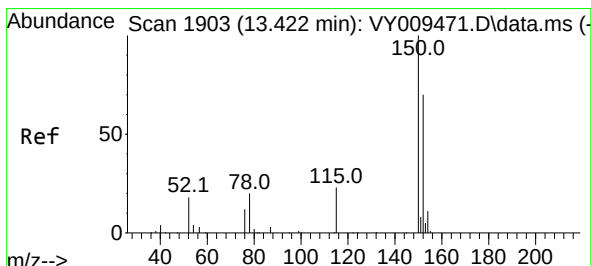
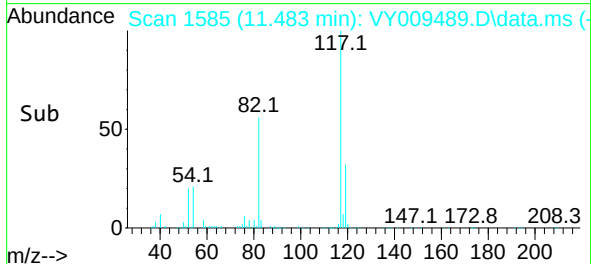
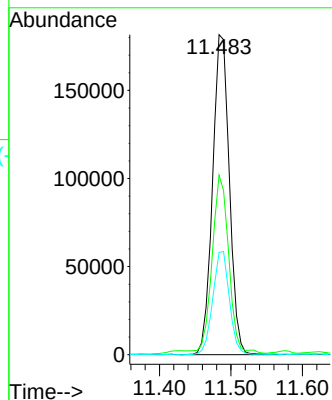
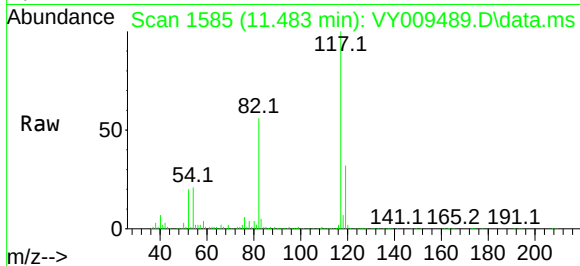




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

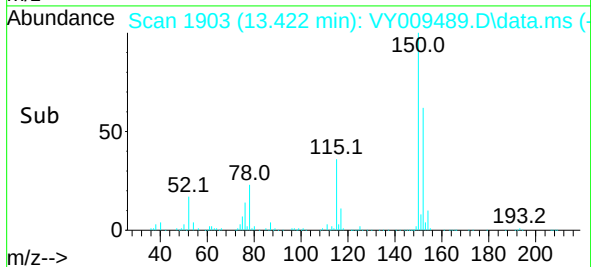
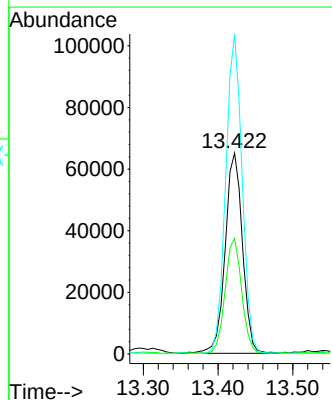
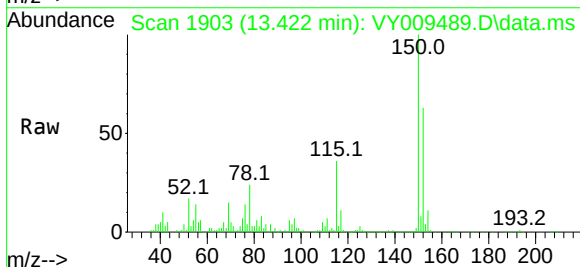
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

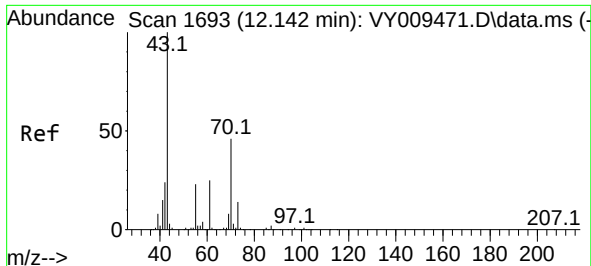
Tgt Ion:117 Resp: 296319
Ion Ratio Lower Upper
117 100
82 55.1 43.0 64.4
119 31.9 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion:152 Resp: 105103
Ion Ratio Lower Upper
152 100
115 54.8 28.2 84.7
150 150.5 0.0 347.6

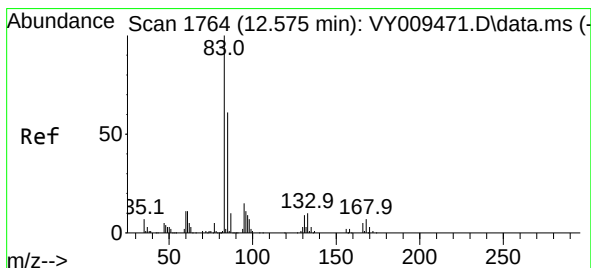
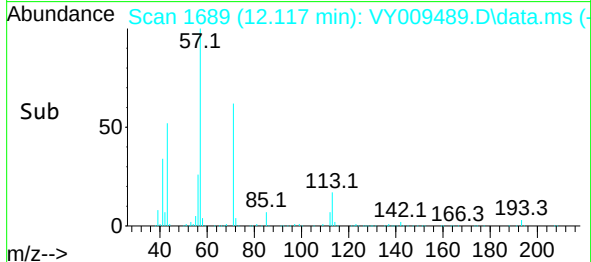
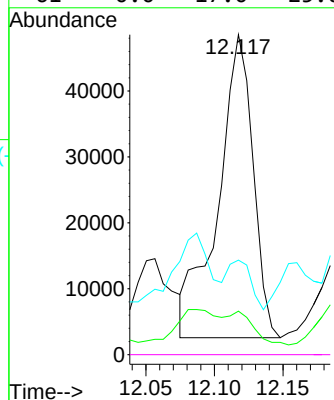
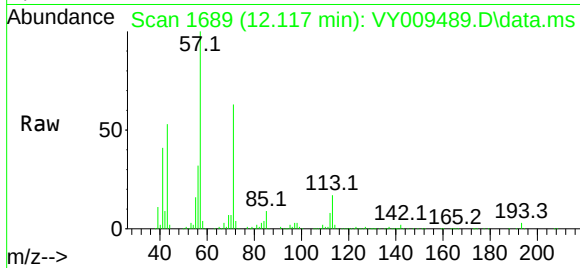




#74
N-amy1 acetate
Concen: 39.928 ug/l
RT: 12.117 min Scan# 1
Delta R.T. -0.025 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

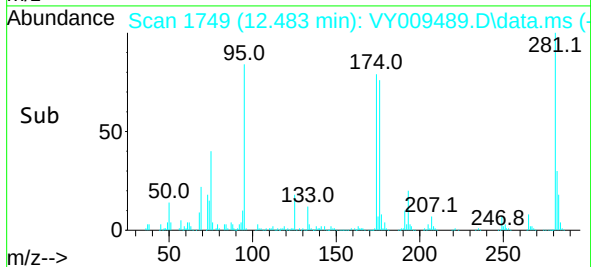
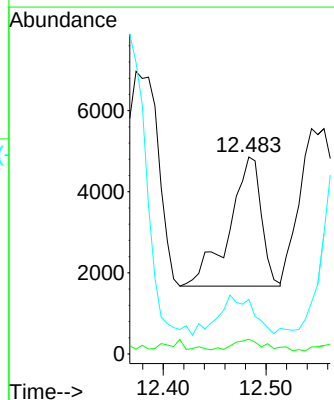
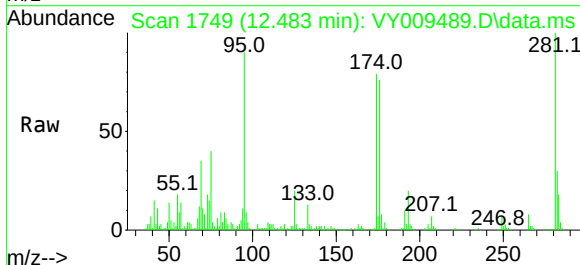
Instrument :
MSVOA_Y
ClientSampleId :
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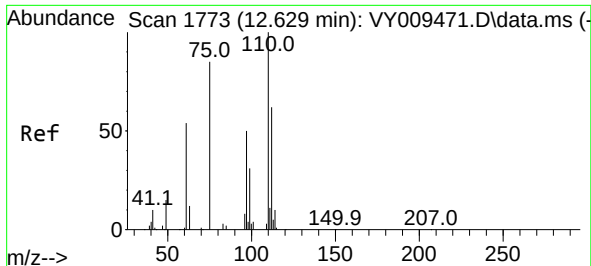
Tgt Ion: 43 Resp: 81658
Ion Ratio Lower Upper
43 100
70 0.0 28.7 43.1#
55 16.1 17.3 25.9#
61 0.0 17.0 25.6#



#75
1,1,2,2-Tetrachloroethane
Concen: 4.789 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.092 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 83 Resp: 6892
Ion Ratio Lower Upper
83 100
131 9.3 5.6 16.8
85 33.5 32.3 96.8

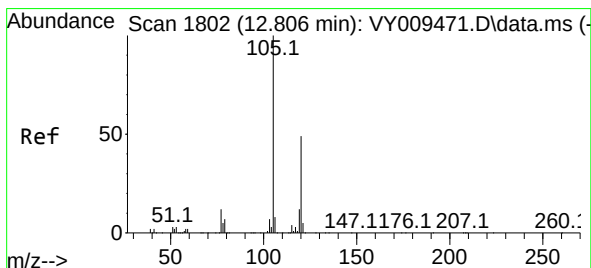
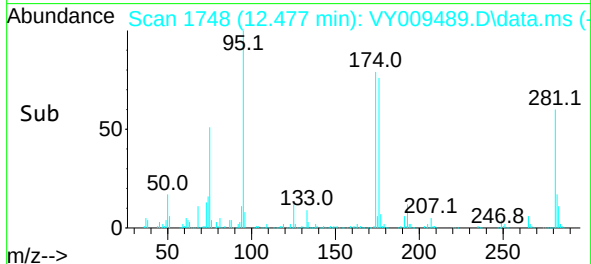
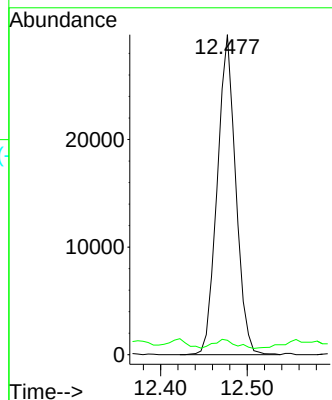
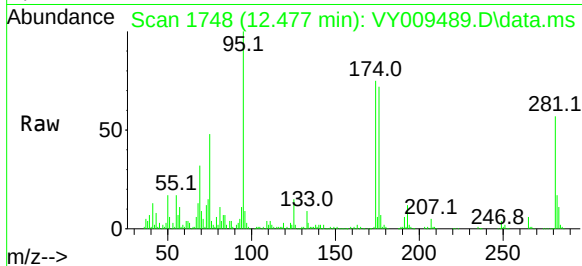




#76
 1,2,3-Trichloropropane
 Concen: 39.692 ug/l
 RT: 12.477 min Scan# 11
 Delta R.T. -0.152 min
 Lab File: VY009489.D
 Acq: 08 Jul 2022 17:46

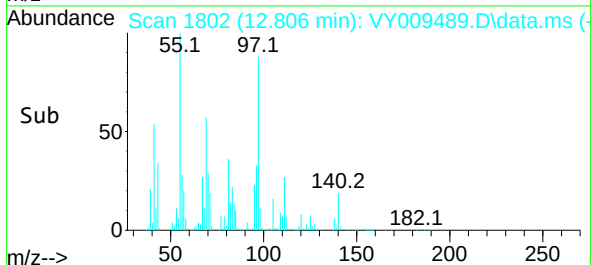
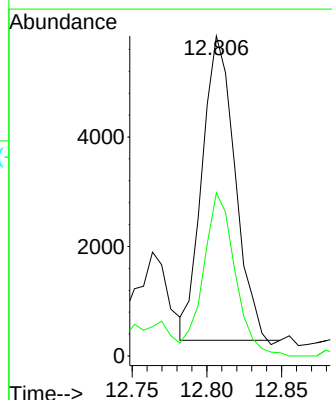
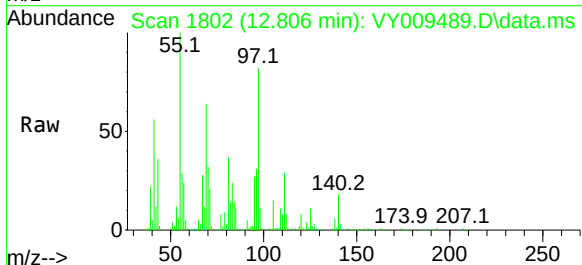
Instrument :
 MSVOA_Y
 ClientSampleId :
 20220489C-7C

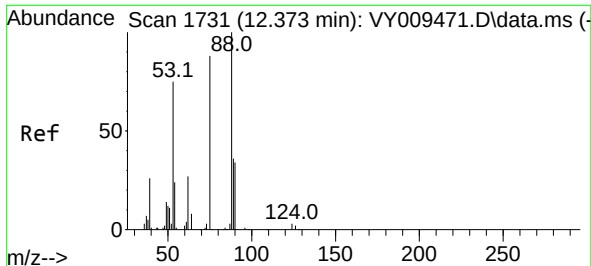
Tgt Ion: 75 Resp: 44161
 Ion Ratio Lower Upper
 75 100
 77 3.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.405 ug/l
 RT: 12.806 min Scan# 1802
 Delta R.T. 0.000 min
 Lab File: VY009489.D
 Acq: 08 Jul 2022 17:46

Tgt Ion: 105 Resp: 8441
 Ion Ratio Lower Upper
 105 100
 120 51.7 24.4 73.4

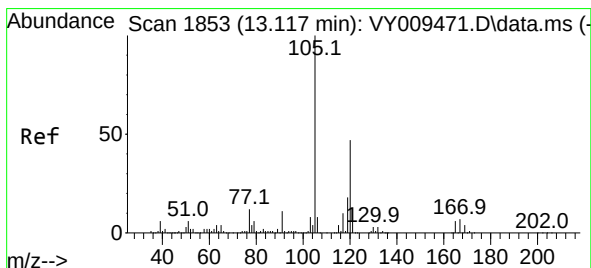
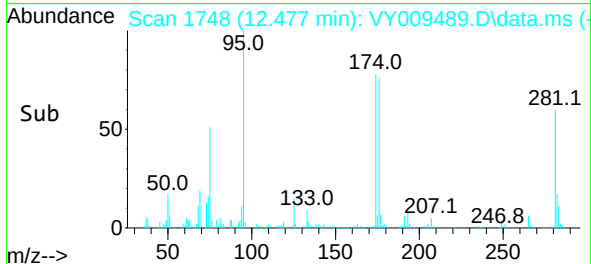
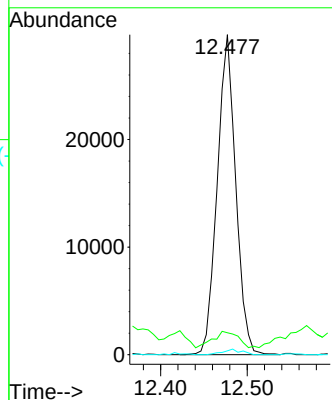
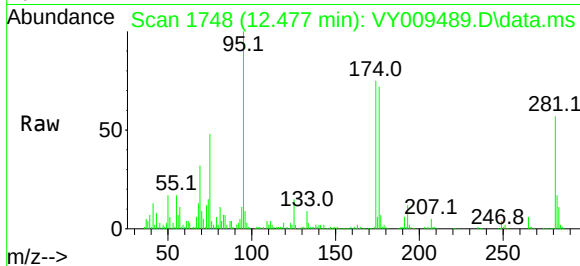




#81
trans-1,4-Dichloro-2-butene
Concen: 81.235 ug/l
RT: 12.477 min Scan# 1731
Delta R.T. 0.104 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

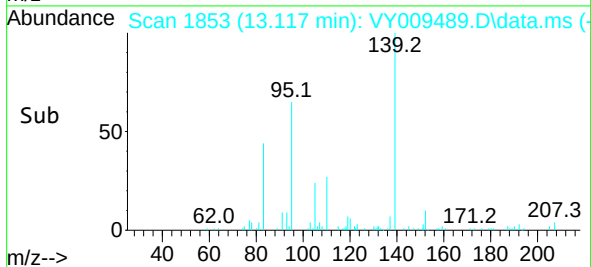
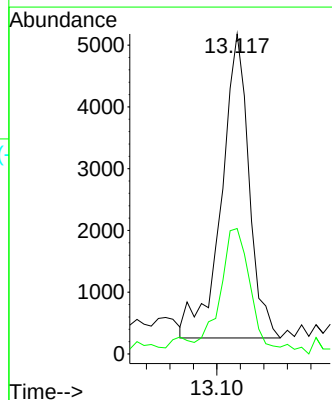
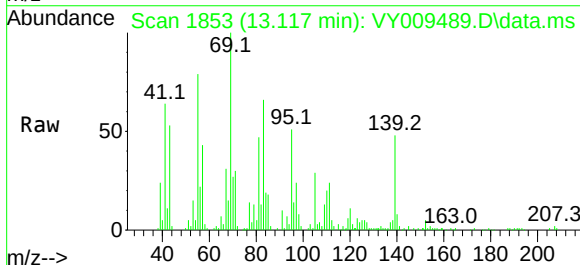
Instrument :
MSVOA_Y
ClientSampleId :
20220489C-7C

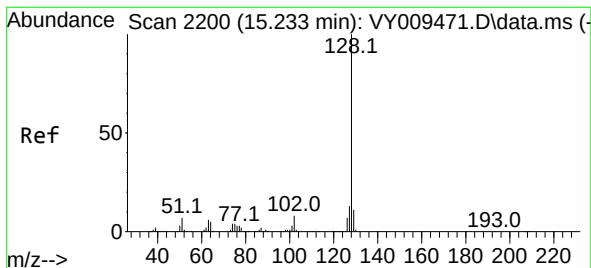
Tgt Ion: 75 Resp: 44161
Ion Ratio Lower Upper
75 100
53 6.9 85.3 127.9#
89 1.7 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.342 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY009489.D
Acq: 08 Jul 2022 17:46

Tgt Ion: 105 Resp: 8024
Ion Ratio Lower Upper
105 100
120 47.3 22.3 66.9





#95

Naphthalene

Concen: 1.467 ug/l

RT: 15.227 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY009489.D

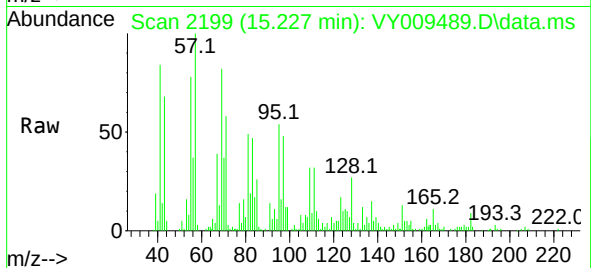
Acq: 08 Jul 2022 17:46

Instrument :

MSVOA_Y

ClientSampleId :

20220489C-7C



Tgt Ion:128 Resp: 5855

Ion Ratio Lower Upper

128 100

127 34.8 11.0 16.4#

129 23.8 8.4 12.6#

