

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051023\
 Data File : VY013689.D
 Acq On : 10 May 2023 15:43
 Operator : KP/MD
 Sample : 02723-10
 Misc : 5.61g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 CB-14-G1-SO-49.5-050923

Quant Time: May 11 03:28:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

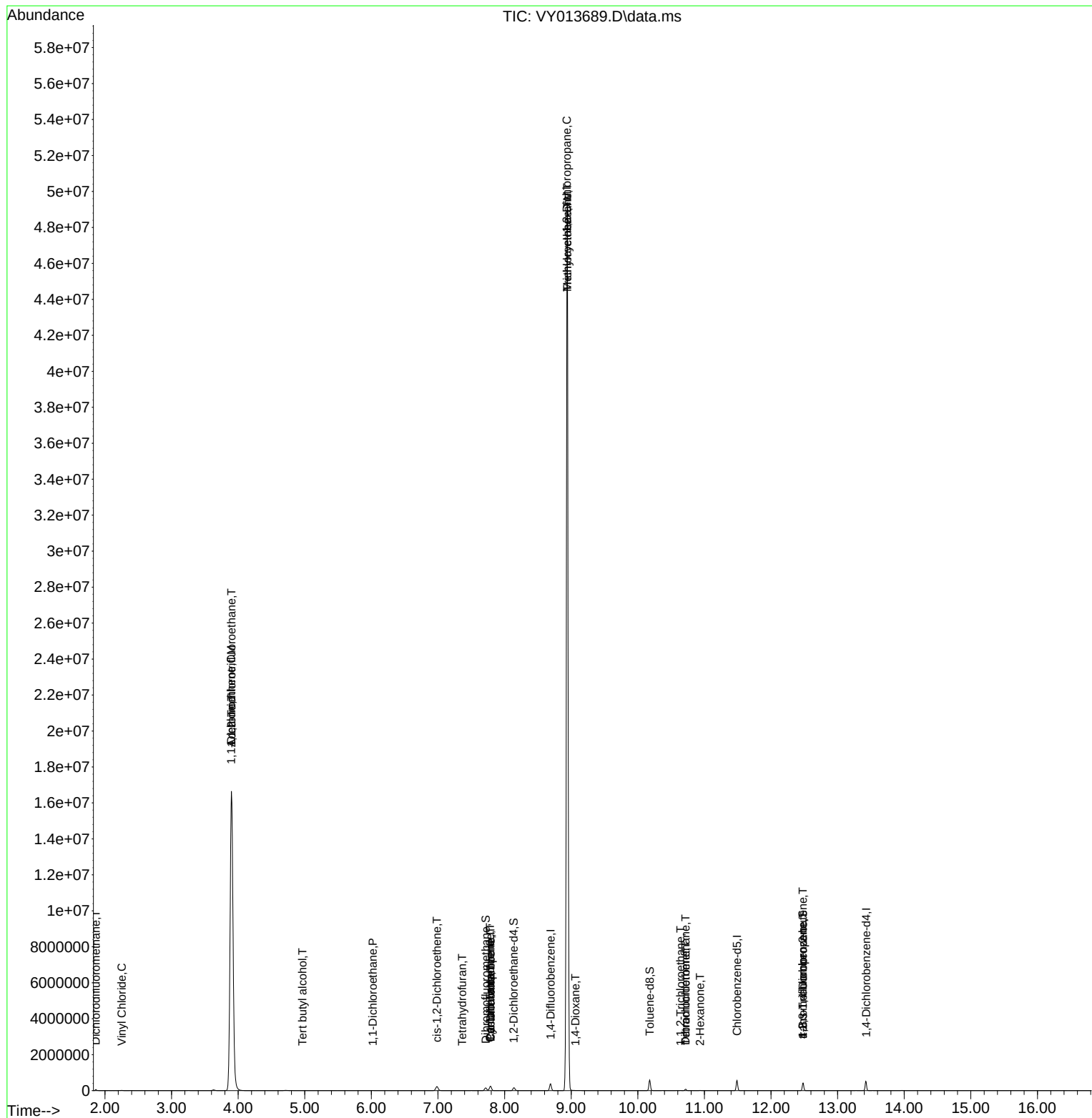
Internal Standards						
1) Pentafluorobenzene	7.789	168	193876	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	317776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	295914	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	134961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	129975	61.156	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 122.320%	
35) Dibromofluoromethane	7.716	113	105309	52.690	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.380%	
50) Toluene-d8	10.179	98	381637	53.676	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 107.360%	
62) 4-Bromofluorobenzene	12.477	95	120758	50.379	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 100.760%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.863	85	7544	4.093	ug/l	100
4) Vinyl Chloride	2.253	62	8703	3.538	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.899	101	10341627	4947.398	ug/l	94
11) Tert butyl alcohol	4.966	59	118	1.142	ug/l #	89
12) 1,1-Dichloroethene	3.893	96	40911	20.304	ug/l #	57
13) Acrolein	3.899	56	1363	Below Cal	#	16
16) Acetone	3.899	43	143784	171.792	ug/l #	74
20) Methylene Chloride	4.716	84	11506	Below Cal		91
24) 1,1-Dichloroethane	6.021	63	7595	1.865	ug/l	97
27) cis-1,2-Dichloroethene	6.984	96	142944	58.725	ug/l	91
29) Tetrahydrofuran	7.362	42	697	1.055	ug/l #	66
31) Cyclohexane	7.789	56	4401	1.157	ug/l #	30
36) 1,1-Dichloropropene	7.789	75	15221	4.589	ug/l #	50
38) Carbon Tetrachloride	7.783	117	18766	5.398	ug/l #	16
39) Methylcyclohexane	8.941	83	220142	56.295	ug/l #	1
44) Trichloroethene	8.941	130	13977288	5623.663	ug/l	88
45) 1,2-Dichloropropane	8.935	63	44840	18.354	ug/l #	1
49) 1,4-Dioxane	9.063	88	26	1.245	ug/l #	1
55) 1,1,2-Trichloroethane	10.642	97	2276	1.176	ug/l	95
59) 2-Hexanone	10.935	43	1942	1.138	ug/l #	52
60) Dibromochloromethane	10.715	129	13801	5.871	ug/l #	11
64) Tetrachloroethene	10.715	164	16799	7.466	ug/l	99
76) 1,2,3-Trichloropropane	12.477	75	65681	36.086	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	65681	73.816	ug/l #	13

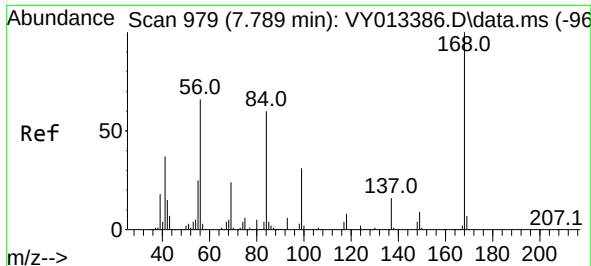
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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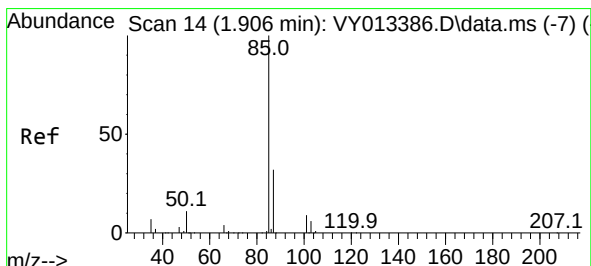
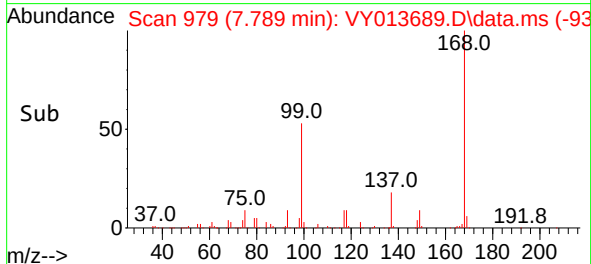
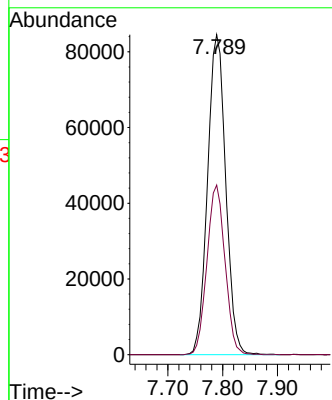
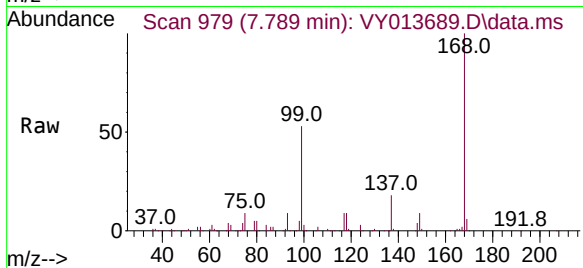




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

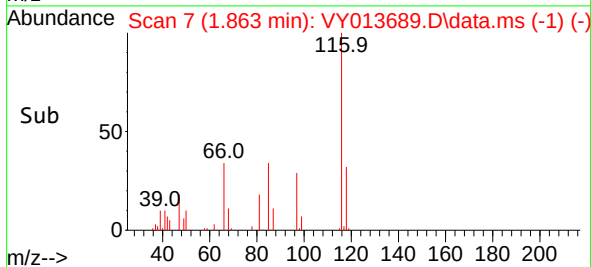
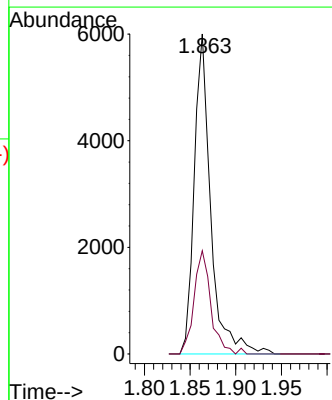
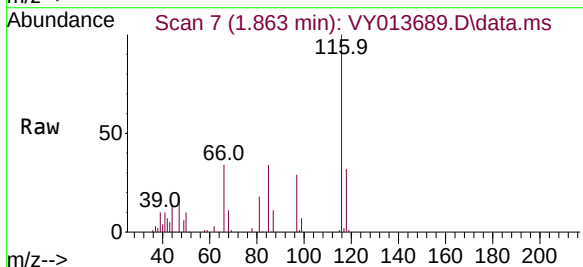
Instrument :
MSVOA_Y
ClientSampleId :
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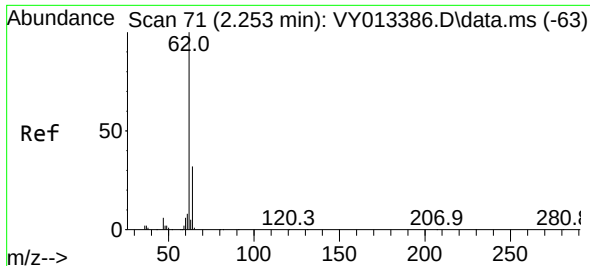
Tgt Ion:168 Resp: 193876
Ion Ratio Lower Upper
168 100
99 53.0 41.8 62.6



#2
Dichlorodifluoromethane
Concen: 4.093 ug/l
RT: 1.863 min Scan# 7
Delta R.T. -0.043 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion: 85 Resp: 7544
Ion Ratio Lower Upper
85 100
87 32.3 16.1 48.2

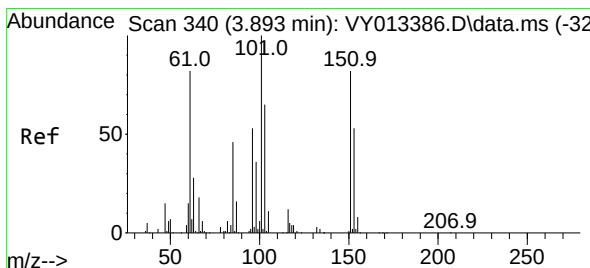
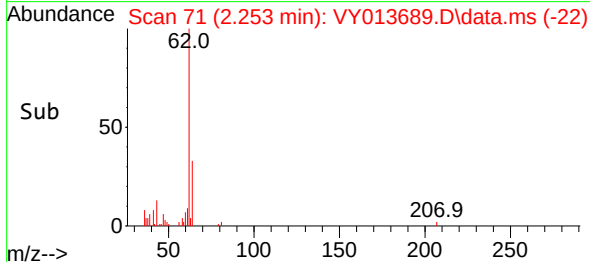
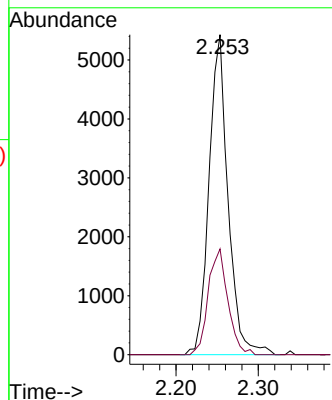
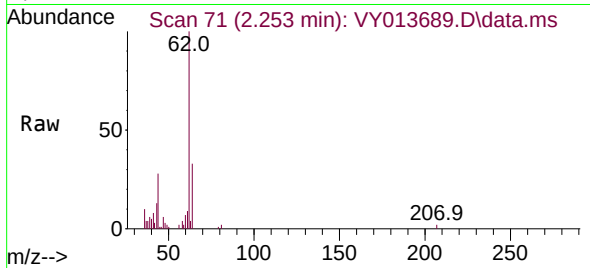




#4
 Vinyl Chloride
 Concen: 3.538 ug/l
 RT: 2.253 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VY013689.D
 Acq: 10 May 2023 15:43

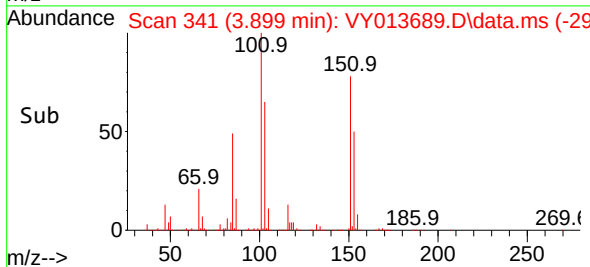
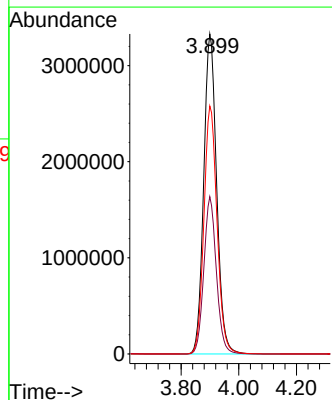
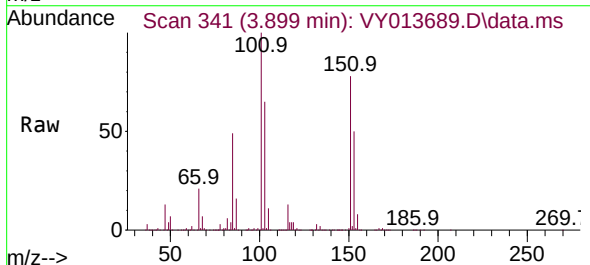
Instrument :
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 ClientSampleId :
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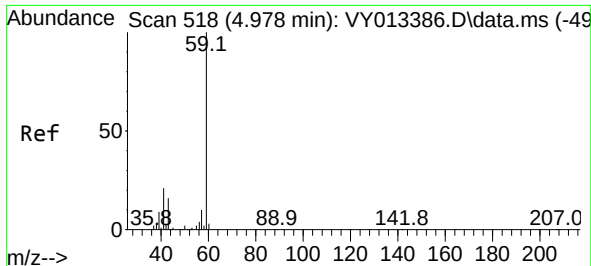
Tgt Ion: 62 Resp: 8703
 Ion Ratio Lower Upper
 62 100
 64 33.0 25.4 38.0



#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 4947.398 ug/l
 RT: 3.899 min Scan# 341
 Delta R.T. 0.006 min
 Lab File: VY013689.D
 Acq: 10 May 2023 15:43

Tgt Ion: 101 Resp: 10341627
 Ion Ratio Lower Upper
 101 100
 85 47.7 35.6 53.4
 151 78.9 68.0 102.0

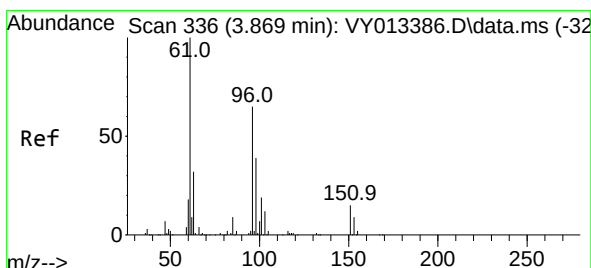
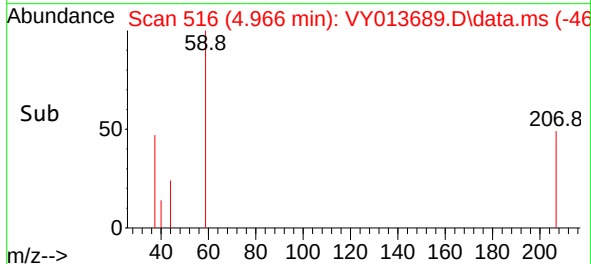
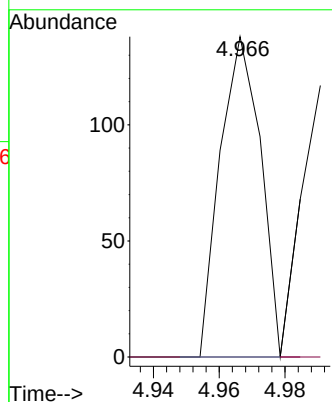
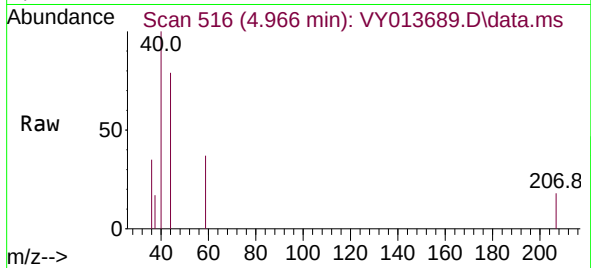




#11
Tert butyl alcohol
Concen: 1.142 ug/l
RT: 4.966 min Scan# 51
Delta R.T. -0.012 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

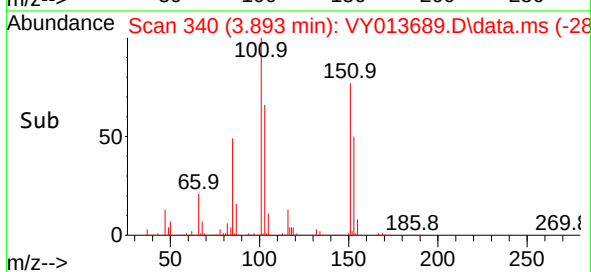
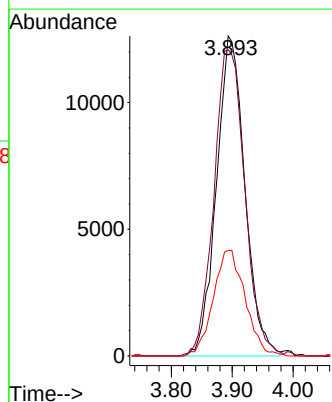
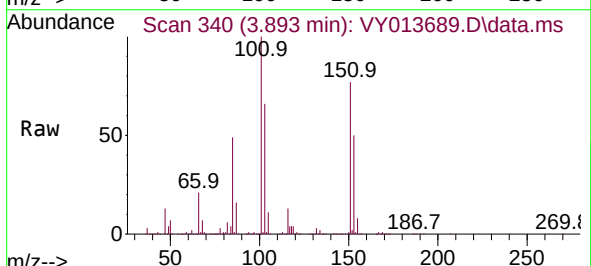
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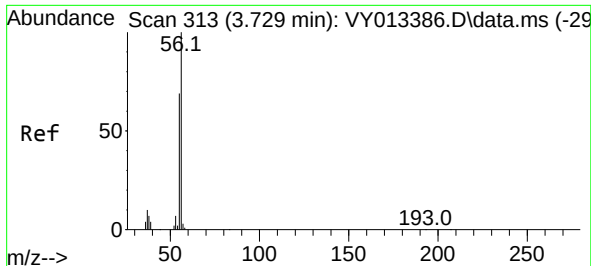
Tgt Ion: 59 Resp: 118
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#12
1,1-Dichloroethene
Concen: 20.304 ug/l
RT: 3.893 min Scan# 340
Delta R.T. 0.024 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion: 96 Resp: 40911
Ion Ratio Lower Upper
96 100
61 95.7 123.9 185.9#
98 33.0 48.9 73.3#

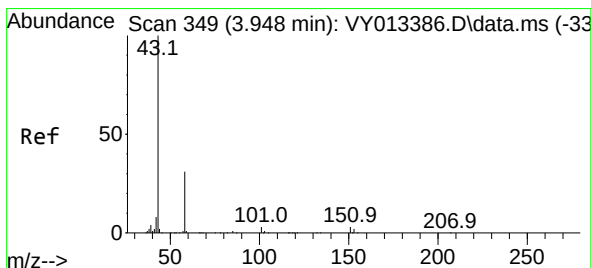
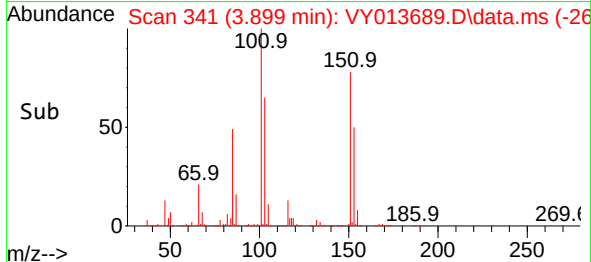
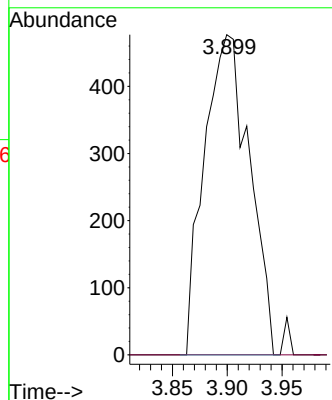
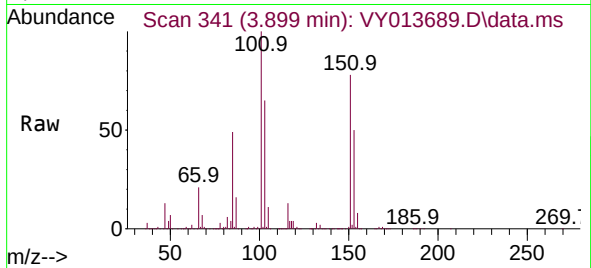




#13
Acrolein
Concen: Below Cal
RT: 3.899 min Scan# 341
Delta R.T. 0.170 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

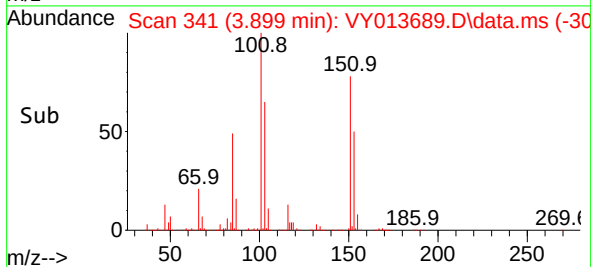
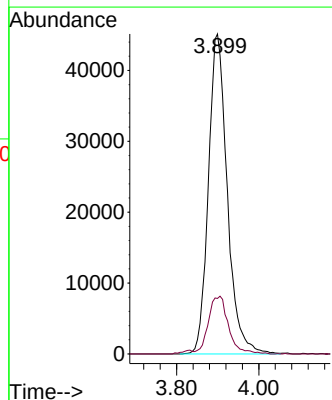
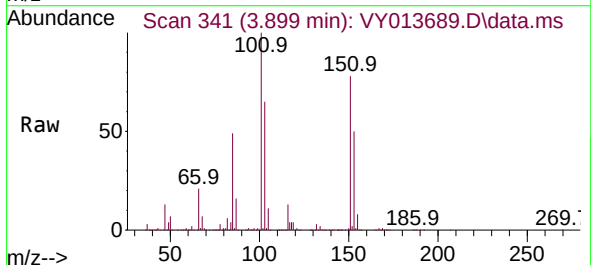
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-49.5-050923

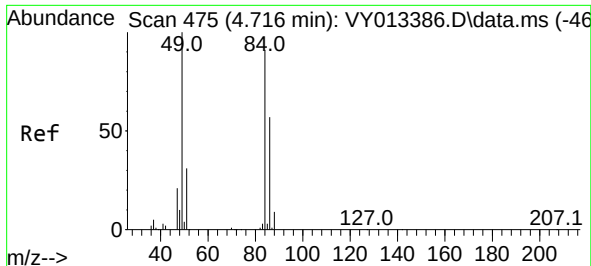
Tgt Ion: 56 Resp: 1363
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#



#16
Acetone
Concen: 171.792 ug/l
RT: 3.899 min Scan# 341
Delta R.T. -0.049 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion: 43 Resp: 143784
Ion Ratio Lower Upper
43 100
58 17.3 25.4 38.0#

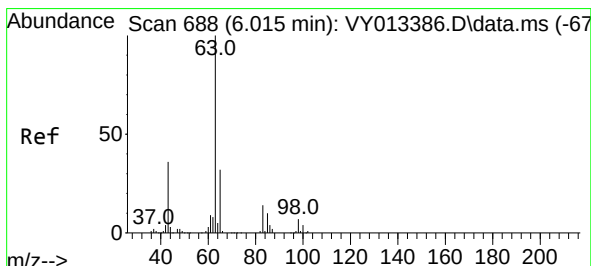
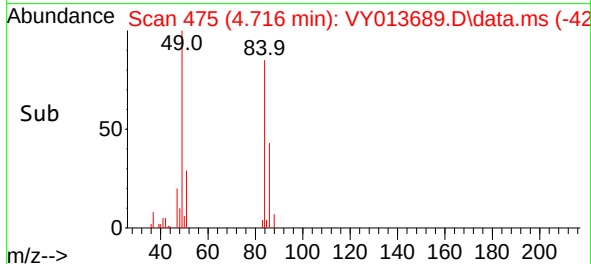
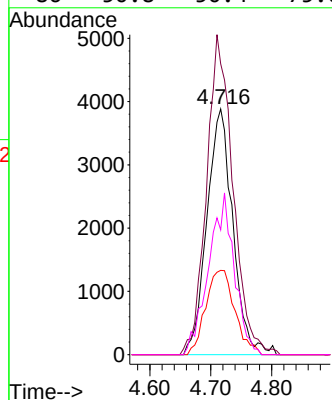
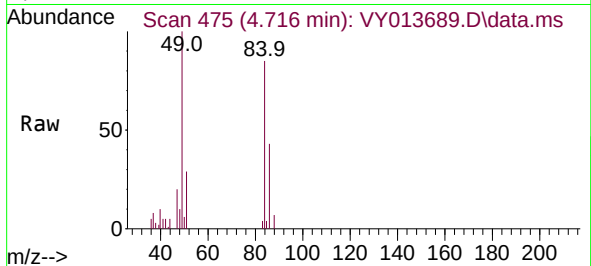




#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

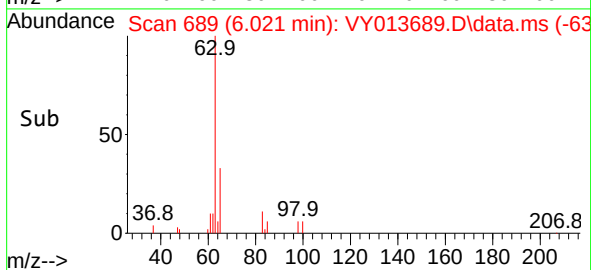
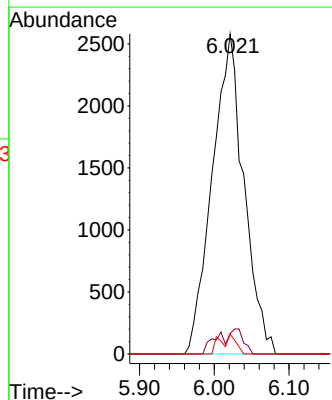
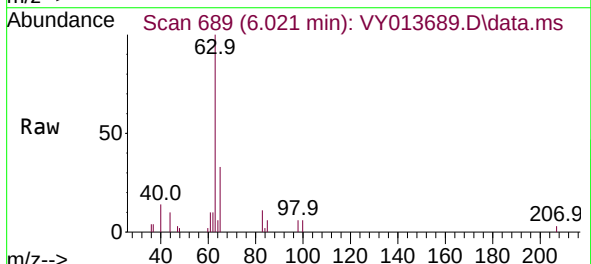
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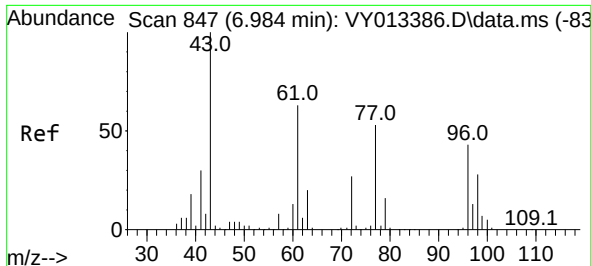
Tgt Ion:	84	Resp:	11506
Ion	Ratio	Lower	Upper
84	100		
49	118.3	88.0	132.0
51	34.3	27.4	41.0
86	50.8	50.4	75.6



#24
1,1-Dichloroethane
Concen: 1.865 ug/l
RT: 6.021 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion:	63	Resp:	7595
Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.5	10.6
100	6.2	2.2	6.6





#27

cis-1,2-Dichloroethene

Concen: 58.725 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-49.5-050923

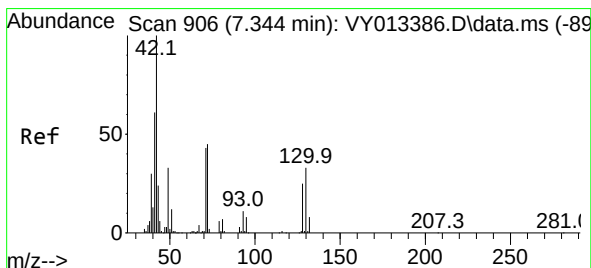
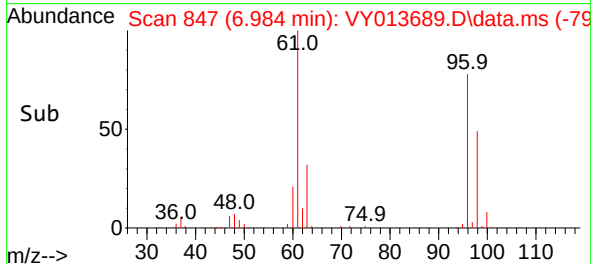
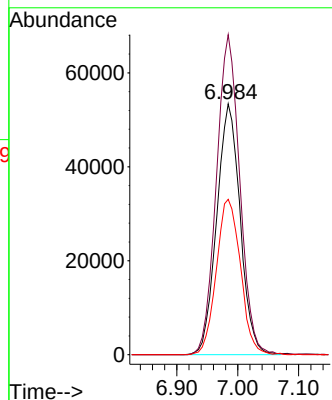
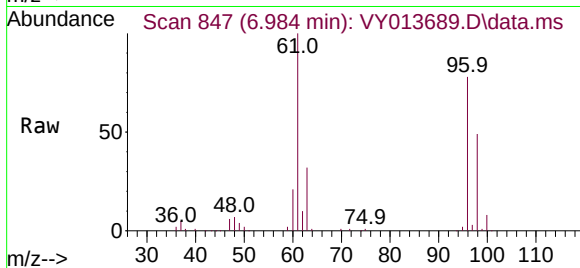
Tgt Ion: 96 Resp: 142944

Ion Ratio Lower Upper

96 100

61 127.1 0.0 285.0

98 63.6 0.0 130.6



#29

Tetrahydrofuran

Concen: 1.055 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.018 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

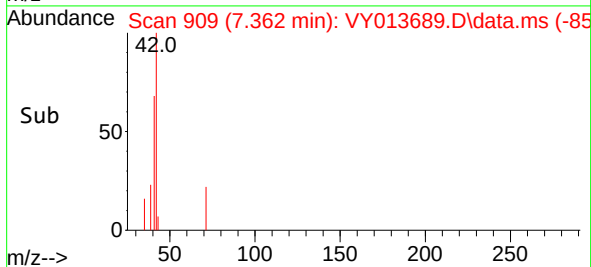
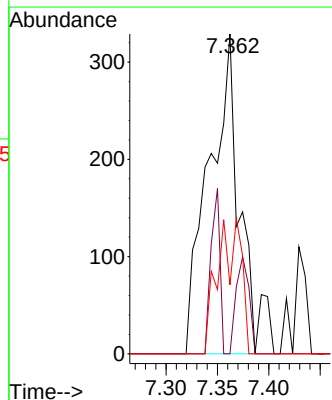
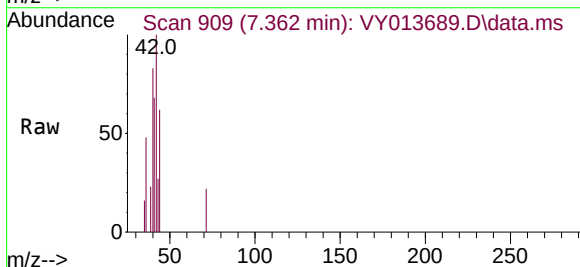
Tgt Ion: 42 Resp: 697

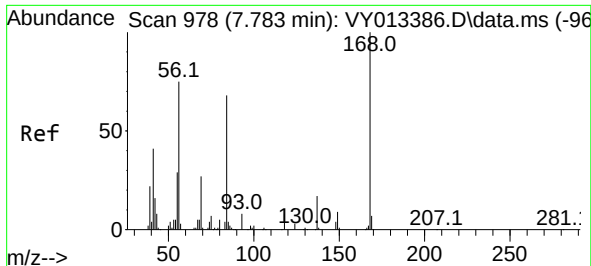
Ion Ratio Lower Upper

42 100

72 12.5 35.9 53.9#

71 31.4 34.3 51.5#

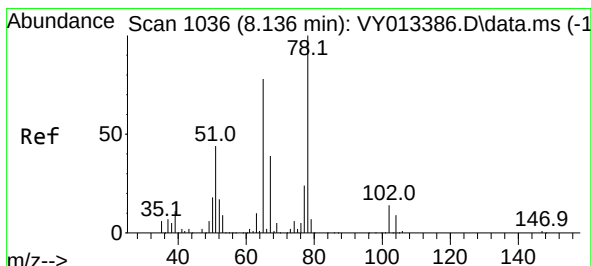
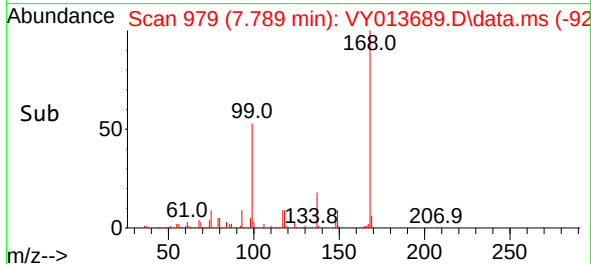
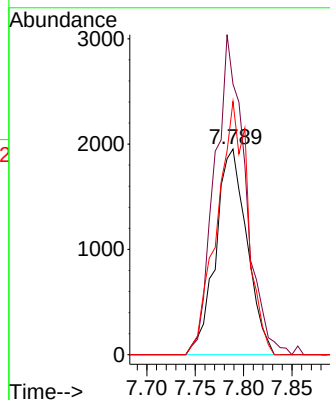
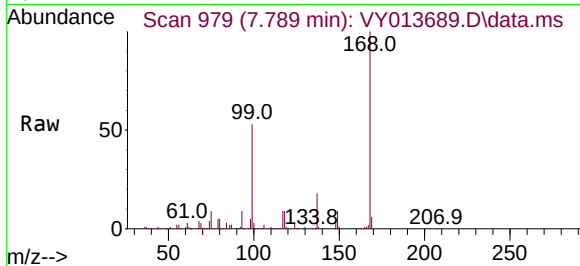




#31
Cyclohexane
Concen: 1.157 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

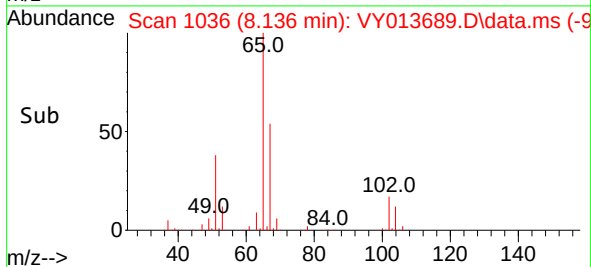
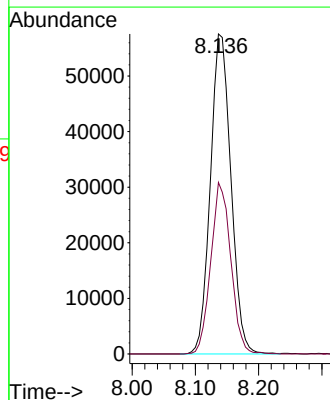
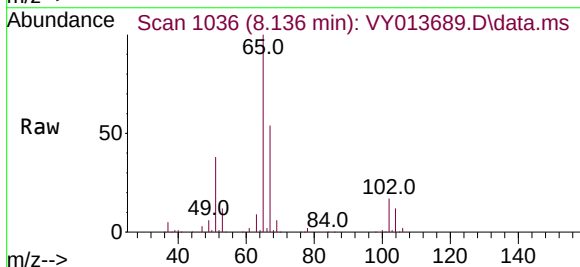
Instrument :
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ClientSampleId :
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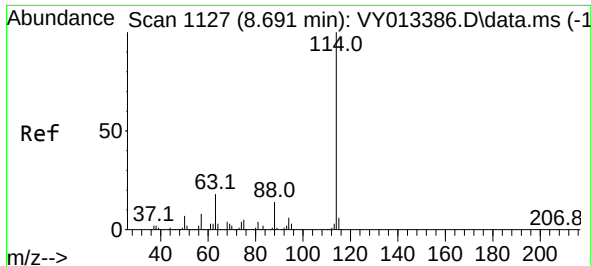
Tgt Ion: 56 Resp: 4401
Ion Ratio Lower Upper
56 100
69 131.7 29.2 43.8#
84 123.2 73.0 109.6#



#33
1,2-Dichloroethane-d4
Concen: 61.156 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion: 65 Resp: 129975
Ion Ratio Lower Upper
65 100
67 52.1 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-49.5-050923

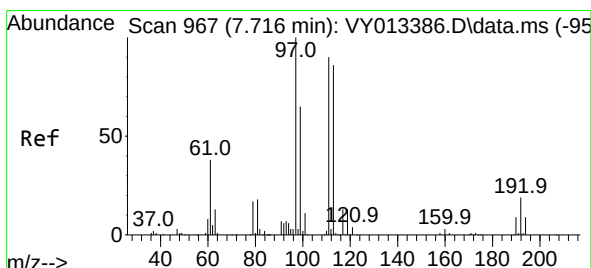
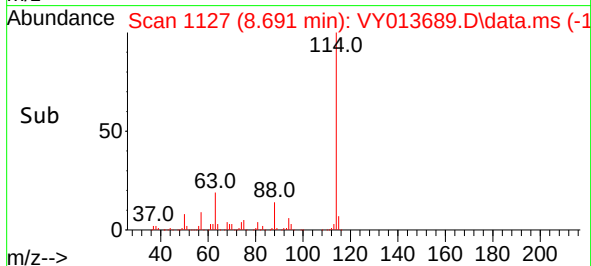
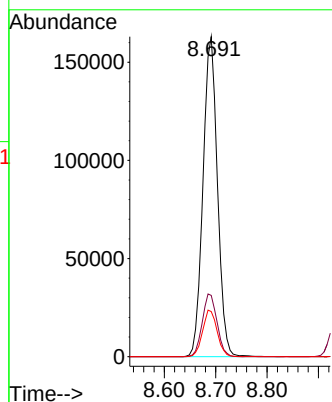
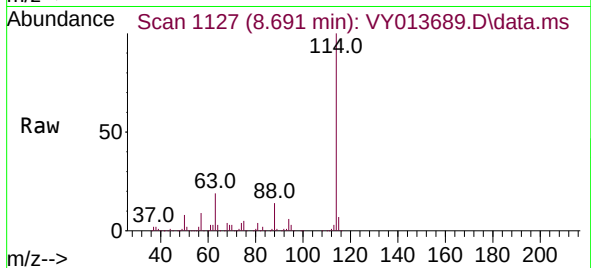
Tgt Ion:114 Resp: 317776

Ion Ratio Lower Upper

114 100

63 19.1 0.0 36.6

88 14.1 0.0 28.8



#35

Dibromofluoromethane

Concen: 52.690 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

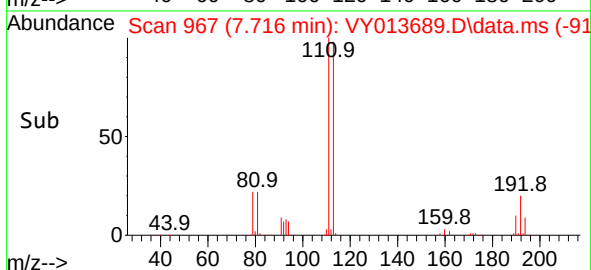
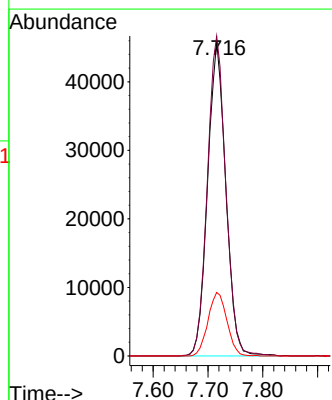
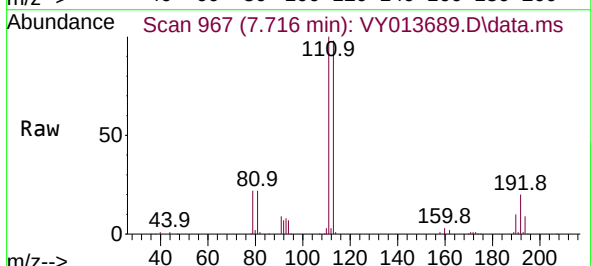
Tgt Ion:113 Resp: 105309

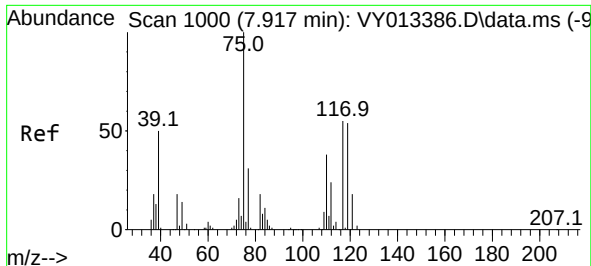
Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.2

192 21.1 16.7 25.1





#36

1,1-Dichloropropene

Concen: 4.589 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY013689.D

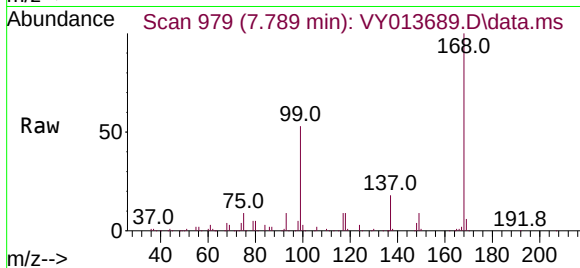
Acq: 10 May 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-49.5-050923



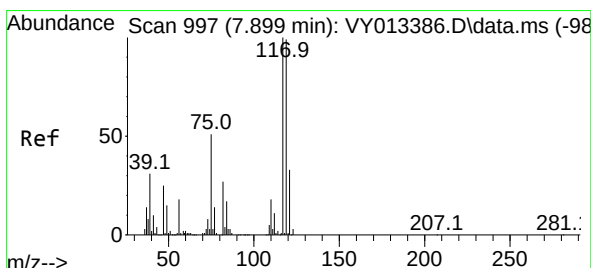
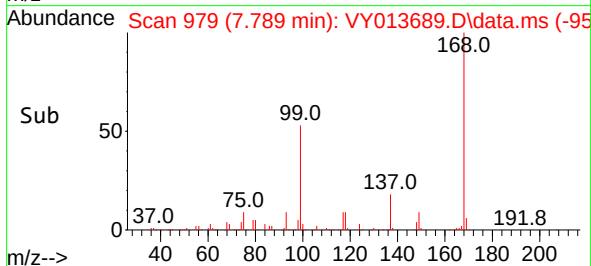
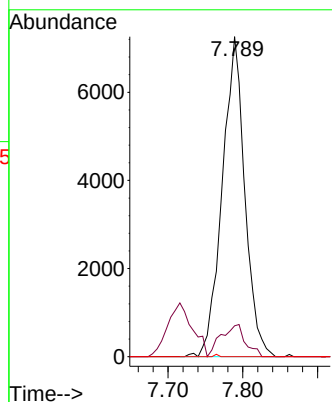
Tgt Ion: 75 Resp: 15221

Ion Ratio Lower Upper

75 100

110 10.8 18.7 56.1#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.398 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

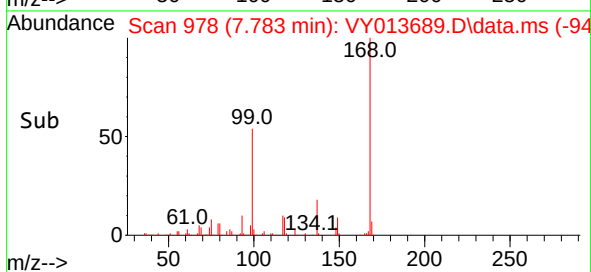
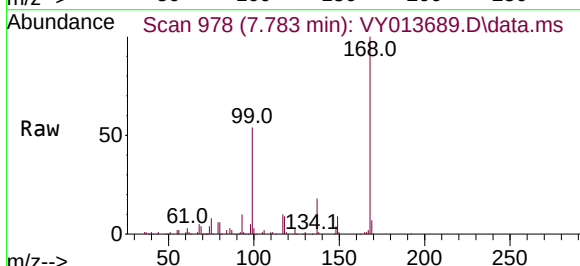
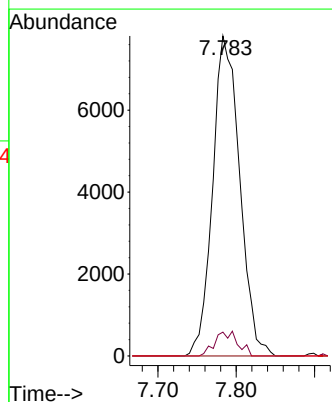
Tgt Ion: 117 Resp: 18766

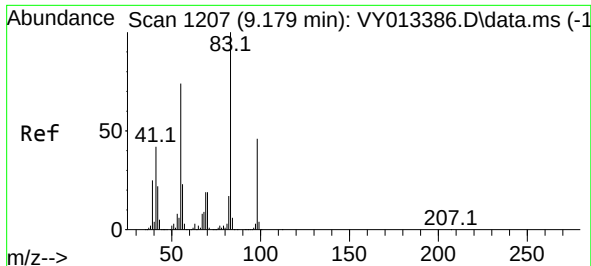
Ion Ratio Lower Upper

117 100

119 7.4 79.0 118.6#

121 0.0 26.6 40.0#





#39

Methylcyclohexane

Concen: 56.295 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. -0.238 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

CB-14-G1-SO-49.5-050923

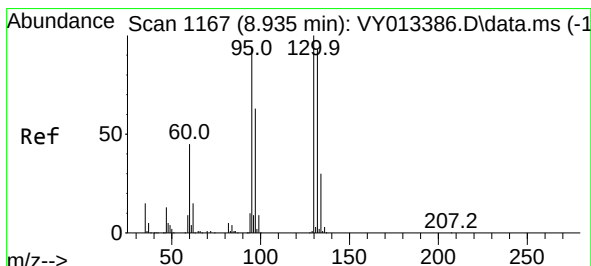
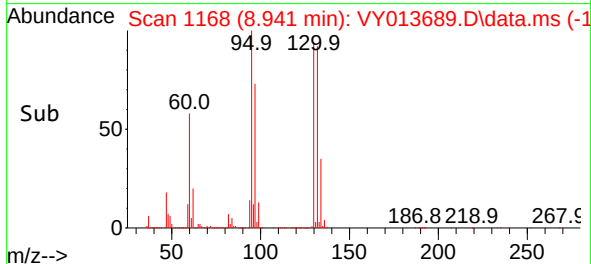
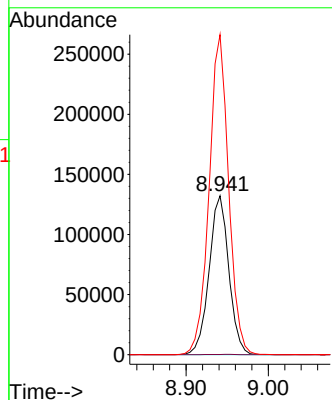
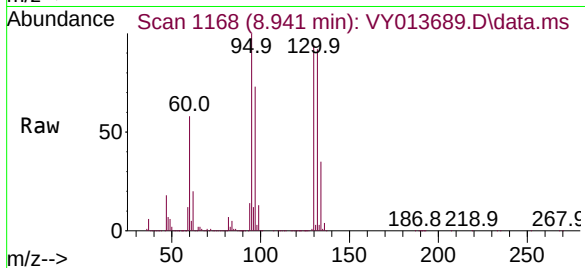
Tgt Ion: 83 Resp: 220142

Ion Ratio Lower Upper

83 100

55 0.1 59.0 88.4#

98 201.6 37.0 55.4#



#44

Trichloroethene

Concen: 5623.663 ug/l

RT: 8.941 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VY013689.D

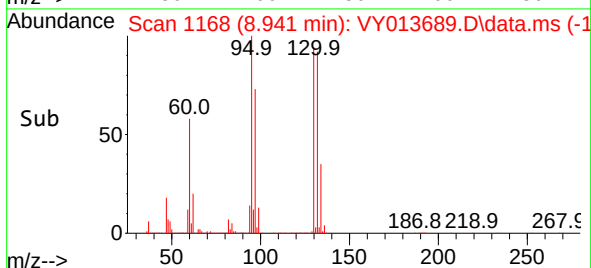
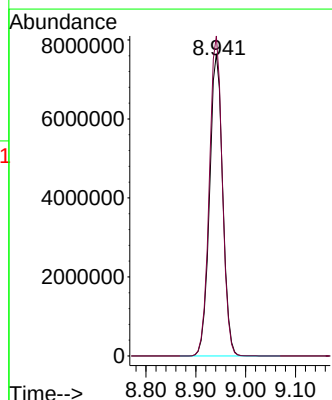
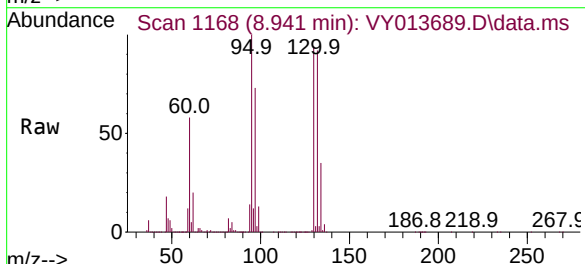
Acq: 10 May 2023 15:43

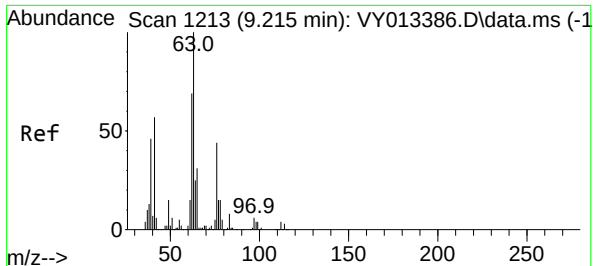
Tgt Ion:130 Resp:13977288

Ion Ratio Lower Upper

130 100

95 105.9 0.0 188.8





#45

1,2-Dichloropropane

Concen: 18.354 ug/l

RT: 8.935 min Scan# 1167

Delta R.T. -0.280 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

Instrument :

MSVOA_Y

ClientSampleId :

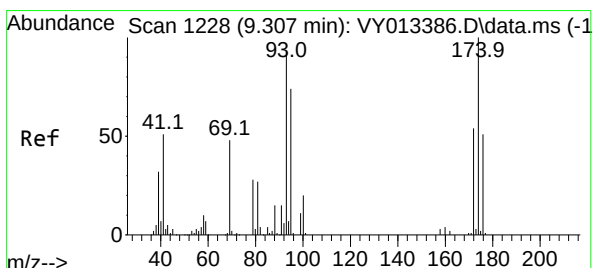
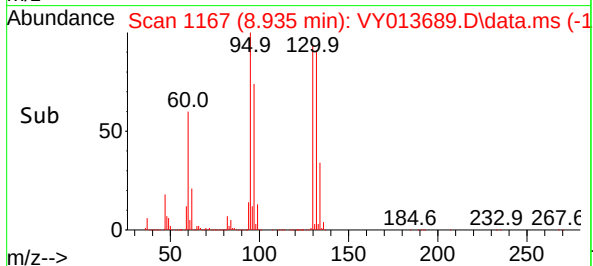
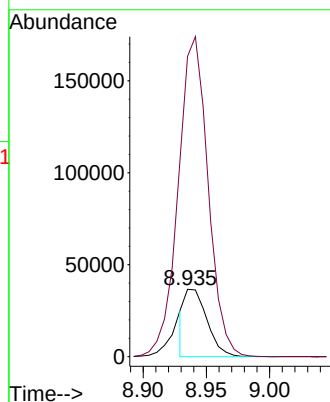
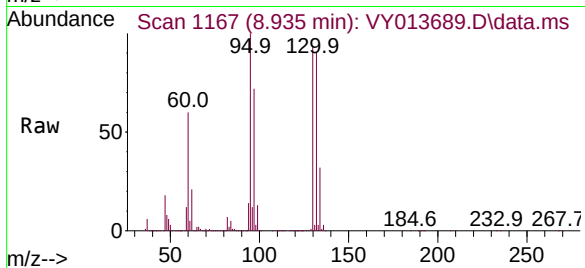
CB-14-G1-SO-49.5-050923

Tgt Ion: 63 Resp: 44840

Ion Ratio Lower Upper

63 100

65 446.1 24.6 37.0#



#49

1,4-Dioxane

Concen: 1.245 ug/l

RT: 9.063 min Scan# 1188

Delta R.T. -0.244 min

Lab File: VY013689.D

Acq: 10 May 2023 15:43

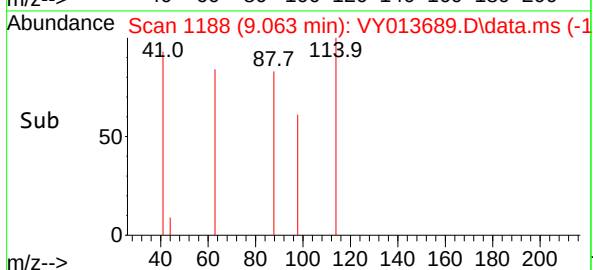
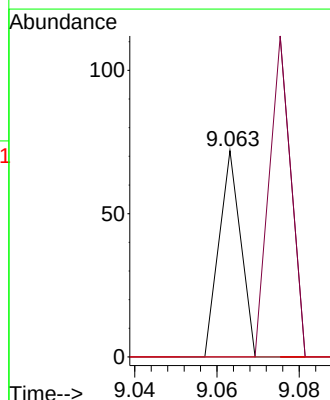
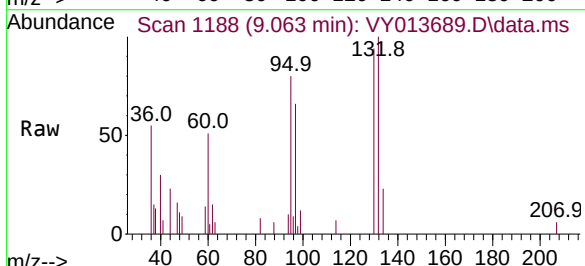
Tgt Ion: 88 Resp: 26

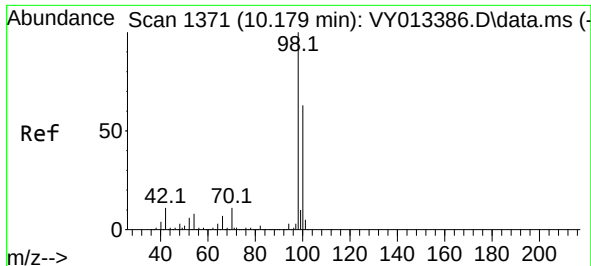
Ion Ratio Lower Upper

88 100

43 157.7 16.8 25.2#

58 0.0 54.3 81.5#

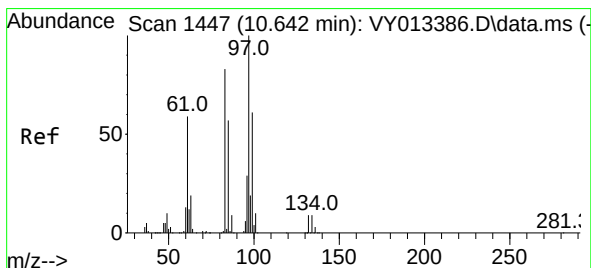
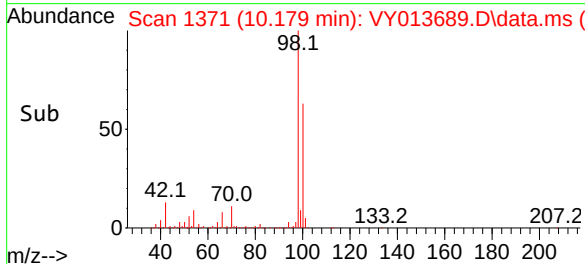
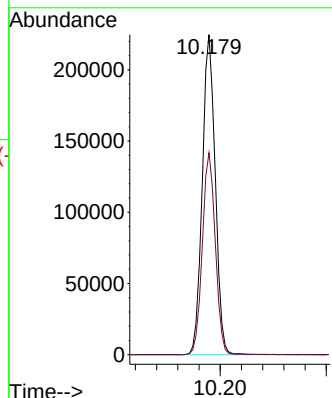
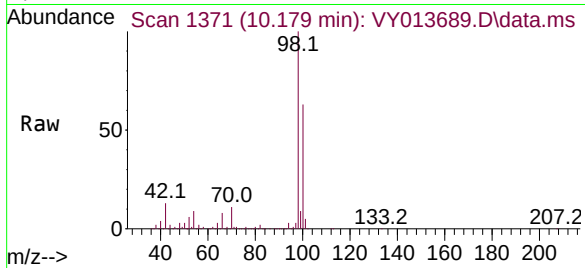




#50
Toluene-d8
Concen: 53.676 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

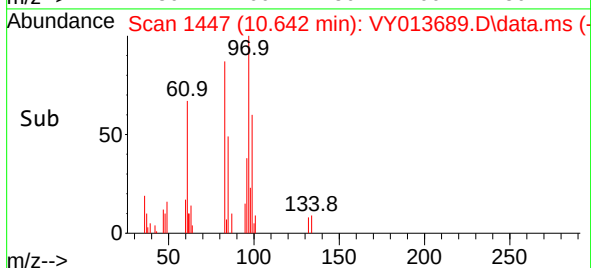
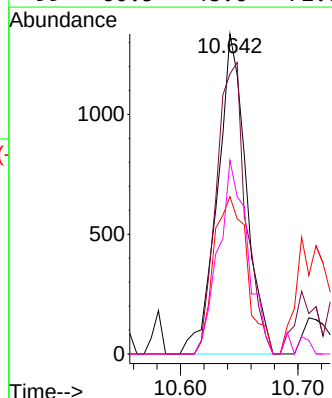
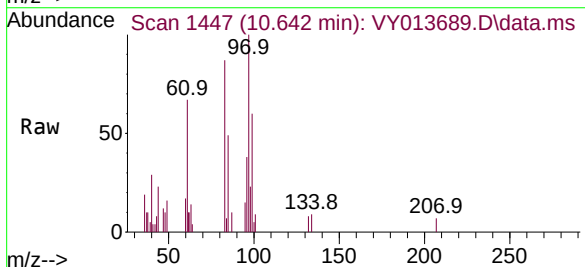
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-49.5-050923

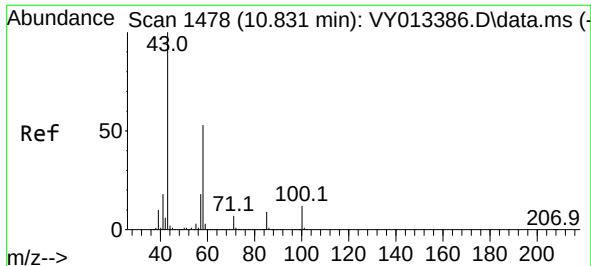
Tgt Ion: 98 Resp: 381637
Ion Ratio Lower Upper
98 100
100 62.9 50.5 75.7



#55
1,1,2-Trichloroethane
Concen: 1.176 ug/l
RT: 10.642 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion: 97 Resp: 2276
Ion Ratio Lower Upper
97 100
83 87.5 66.4 99.6
85 49.2 45.6 68.4
99 60.5 48.6 72.8

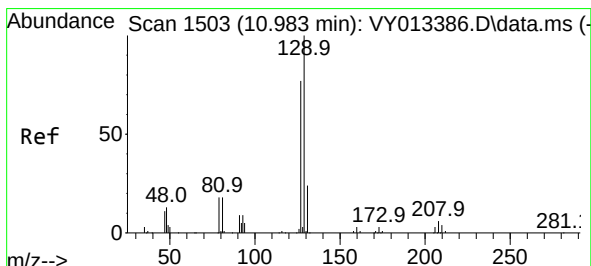
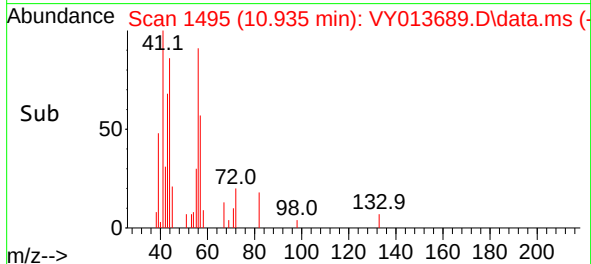
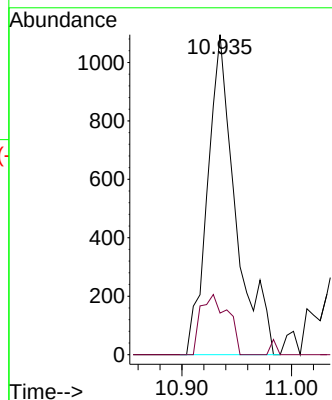
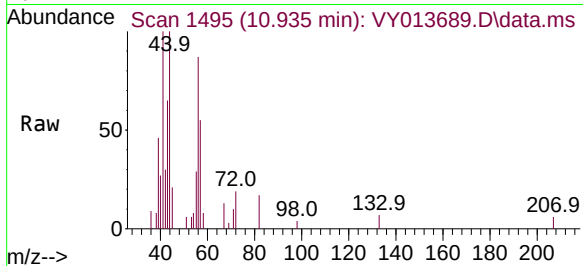




#59
2-Hexanone
Concen: 1.138 ug/l
RT: 10.935 min Scan# 1495
Delta R.T. 0.104 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

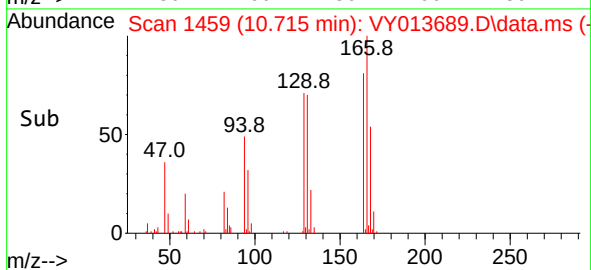
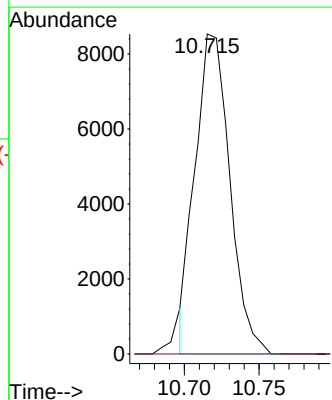
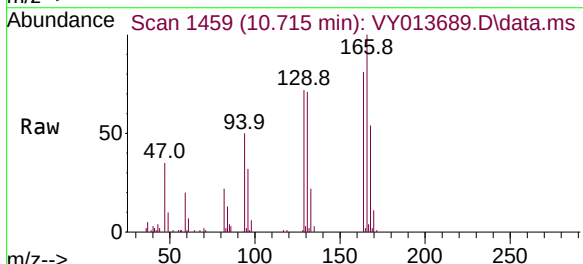
Instrument : MSVOA_Y
ClientSampleId : CB-14-G1-SO-49.5-050923

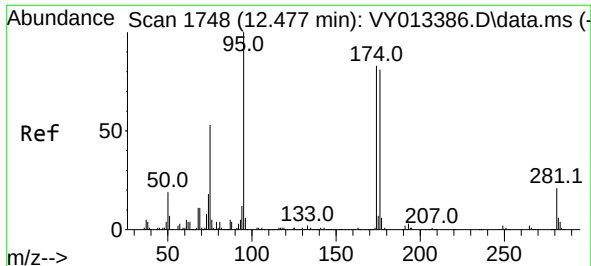
Tgt Ion: 43 Resp: 1942
Ion Ratio Lower Upper
43 100
58 18.3 26.3 78.8#



#60
Dibromochloromethane
Concen: 5.871 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. -0.268 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion: 129 Resp: 13801
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#

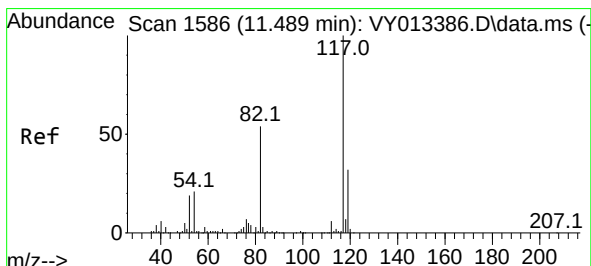
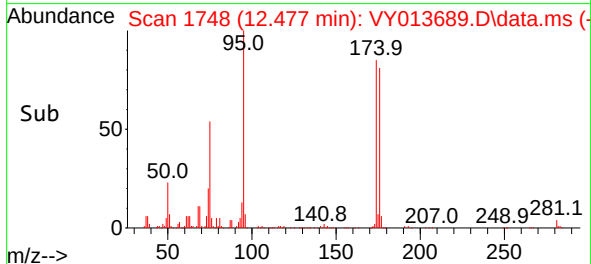
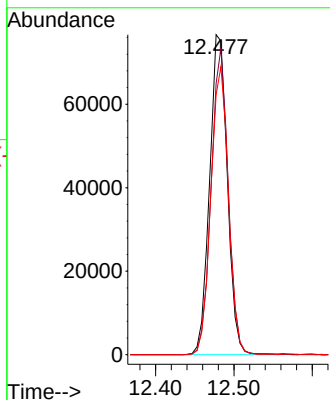
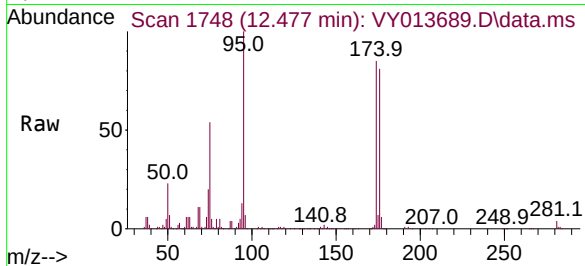




#62
4-Bromofluorobenzene
Concen: 50.379 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

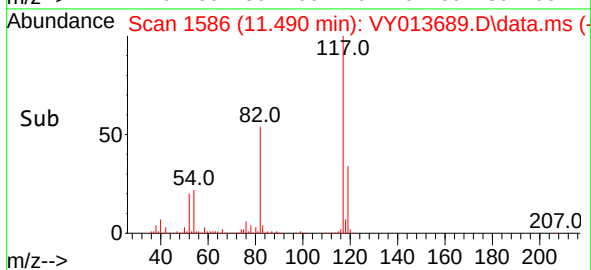
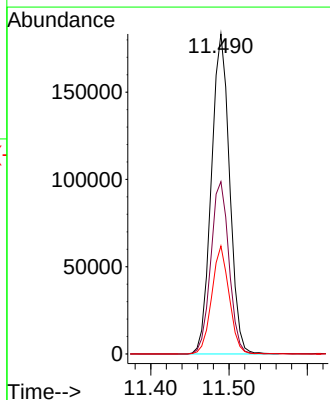
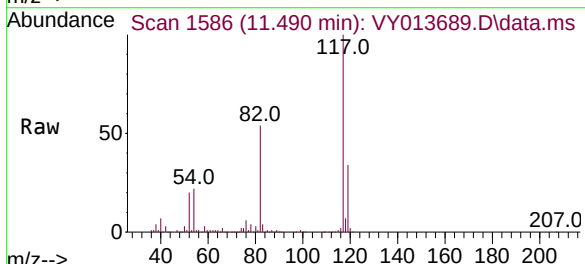
Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-49.5-050923

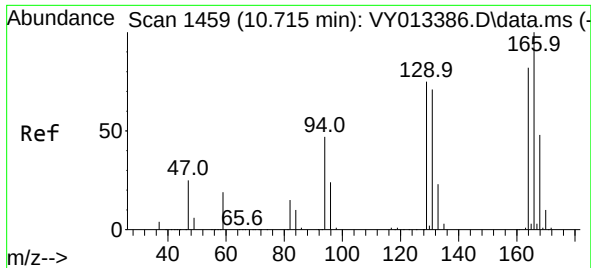
Tgt Ion: 95 Resp: 120758
Ion Ratio Lower Upper
95 100
174 92.1 0.0 182.0
176 89.1 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

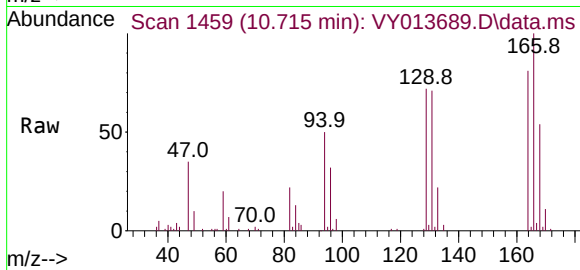
Tgt Ion: 117 Resp: 295914
Ion Ratio Lower Upper
117 100
82 53.9 43.0 64.6
119 33.8 25.5 38.3



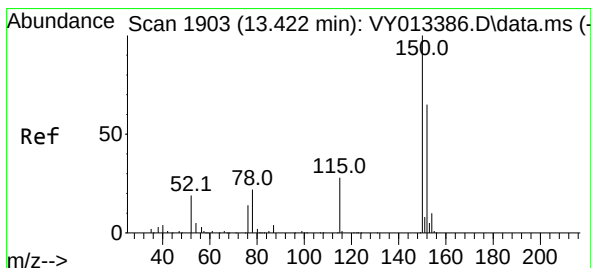
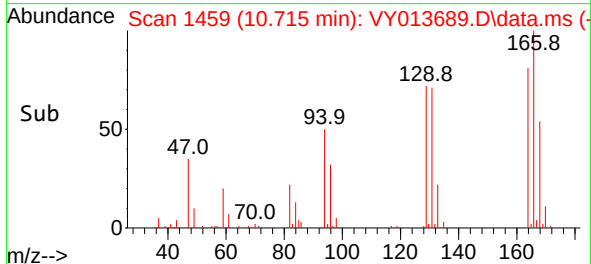
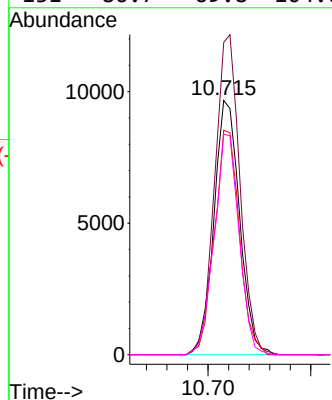


#64
Tetrachloroethene
Concen: 7.466 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. 0.000 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-49.5-050923

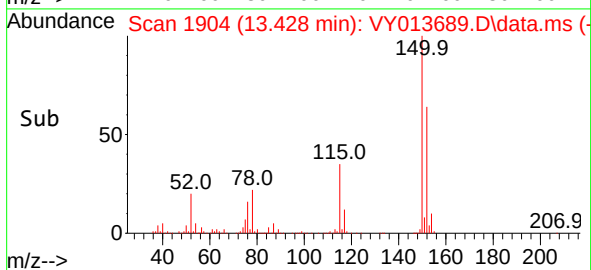
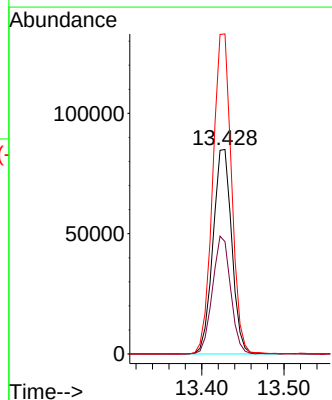
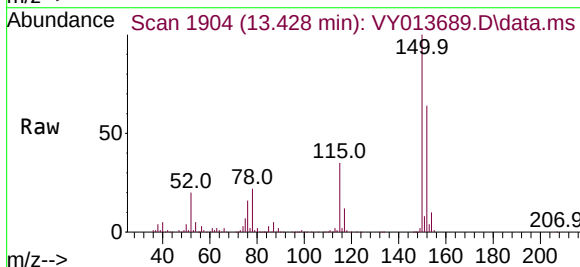


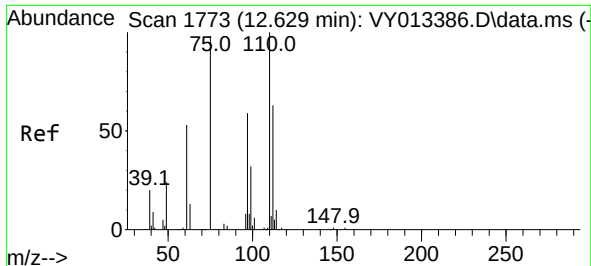
Tgt Ion:164 Resp: 16799
Ion Ratio Lower Upper
164 100
166 122.8 97.5 146.3
129 88.3 72.6 109.0
131 86.7 69.8 104.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion:152 Resp: 134961
Ion Ratio Lower Upper
152 100
115 55.9 28.1 84.2
150 156.1 0.0 352.0

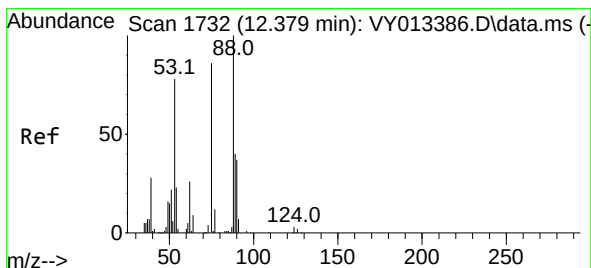
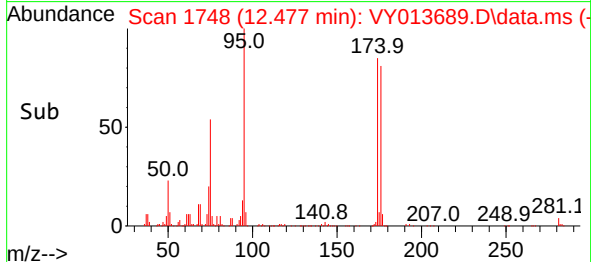
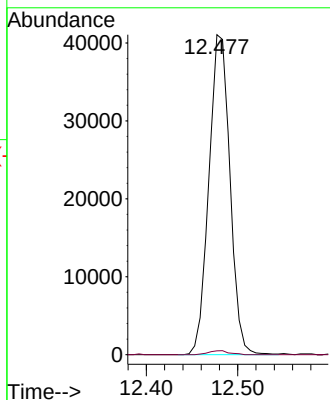
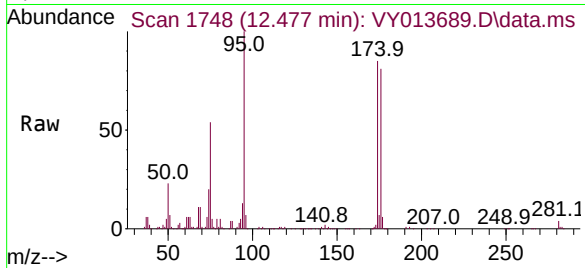




#76
1,2,3-Trichloropropane
Concen: 36.086 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Instrument :
MSVOA_Y
ClientSampleId :
CB-14-G1-SO-49.5-050923

Tgt Ion: 75 Resp: 65681
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.816 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.098 min
Lab File: VY013689.D
Acq: 10 May 2023 15:43

Tgt Ion: 75 Resp: 65681
Ion Ratio Lower Upper
75 100
53 0.2 73.2 109.8#
89 0.0 38.0 57.0#

