

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050923\
 Data File : VY013660.D
 Acq On : 09 May 2023 12:04
 Operator : KP/MD
 Sample : 02666-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 BU-02-050823

Quant Time: May 10 05:34:54 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)

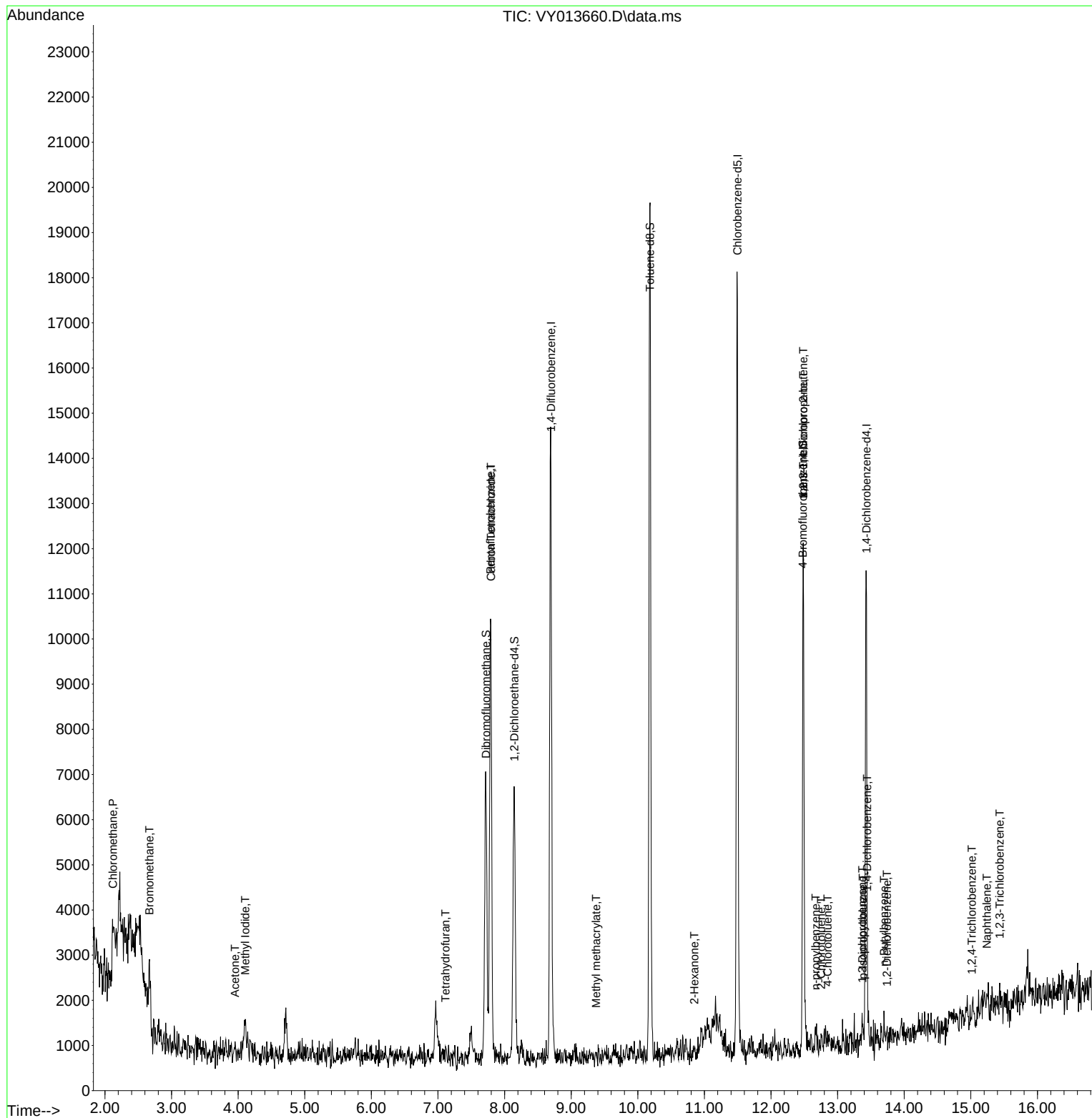
Internal Standards						
1) Pentafluorobenzene	7.789	168	7591	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	11662	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	9772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	2937	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	5190	62.369	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.740%	
35) Dibromofluoromethane	7.722	113	4623	63.028	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 126.060%	
50) Toluene-d8	10.185	98	13559	51.964	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.920%	
62) 4-Bromofluorobenzene	12.477	95	3389	38.526	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 77.060%	
Target Compounds						Qvalue
3) Chloromethane	2.119	50	700	7.236	ug/l	90
5) Bromomethane	2.668	94	632	8.234	ug/l	93
10) Methyl Iodide	4.107	142	1097	10.672	ug/l #	75
13) Acrolein	3.631	56	26	Below Cal	#	16
16) Acetone	3.954	43	285	8.697	ug/l #	43
20) Methylene Chloride	4.729	84	223	Below Cal	#	88
29) Tetrahydrofuran	7.112	42	47	1.817	ug/l #	32
38) Carbon Tetrachloride	7.795	117	664	5.204	ug/l #	11
48) Methyl methacrylate	9.374	41	93	1.310	ug/l #	12
59) 2-Hexanone	10.849	43	76	1.213	ug/l #	26
76) 1,2,3-Trichloropropane	12.483	75	1968	49.686	ug/l #	100
78) n-propylbenzene	12.672	91	319	1.166	ug/l	81
79) 2-Chlorotoluene	12.752	91	267	1.747	ug/l #	39
81) trans-1,4-Dichloro-2-b...	12.483	75	1968	101.635	ug/l #	12
82) 4-Chlorotoluene	12.849	91	245	1.538	ug/l #	39
86) p-Isopropyltoluene	13.379	119	230	1.213	ug/l #	50
87) 1,3-Dichlorobenzene	13.373	146	258	2.516	ug/l #	30
88) 1,4-Dichlorobenzene	13.447	146	215	2.075	ug/l #	47
89) n-Butylbenzene	13.697	91	203	1.097	ug/l #	34
91) 1,2-Dichlorobenzene	13.739	146	206	2.225	ug/l #	48
93) 1,2,4-Trichlorobenzene	15.013	180	71	1.286	ug/l #	61
95) Naphthalene	15.239	128	485	4.049	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.434	180	186	3.780	ug/l #	51

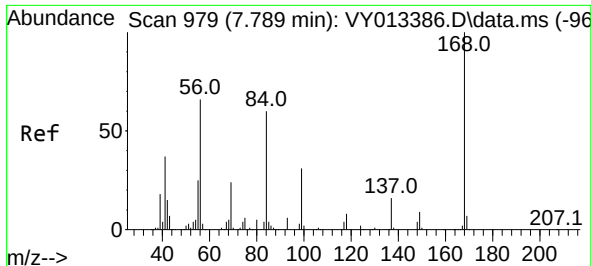
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 10 05:34:54 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

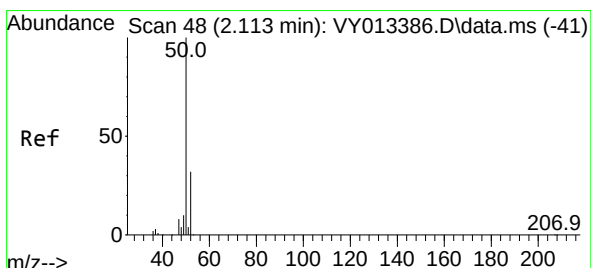
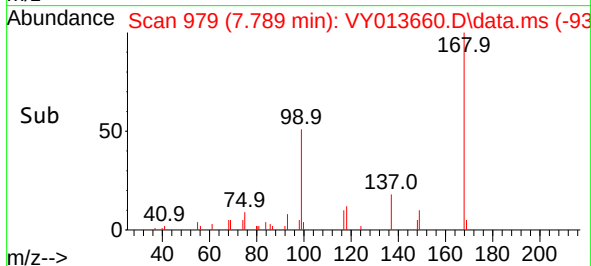
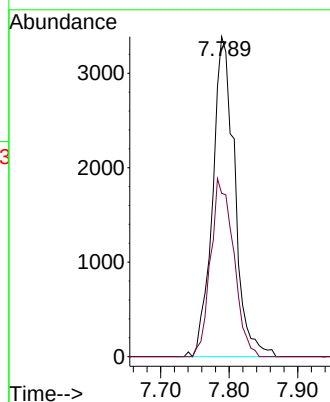
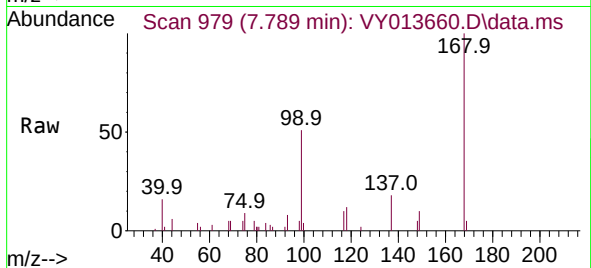




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

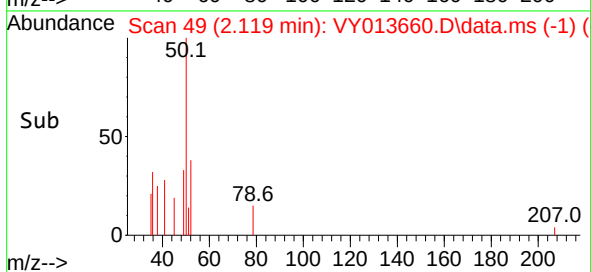
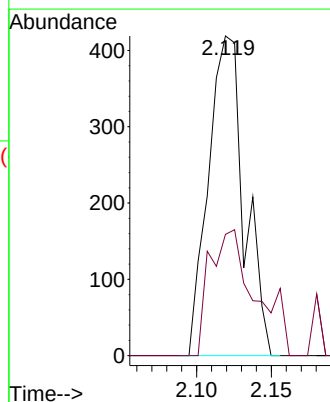
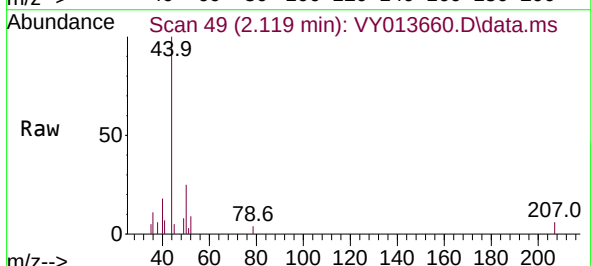
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

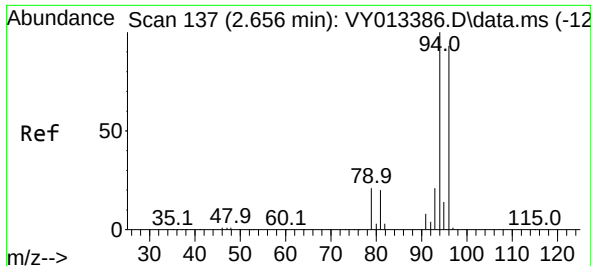
Tgt Ion:168 Resp: 7591
Ion Ratio Lower Upper
168 100
99 51.0 41.8 62.6



#3
Chloromethane
Concen: 7.236 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion: 50 Resp: 700
Ion Ratio Lower Upper
50 100
52 37.9 25.9 38.9

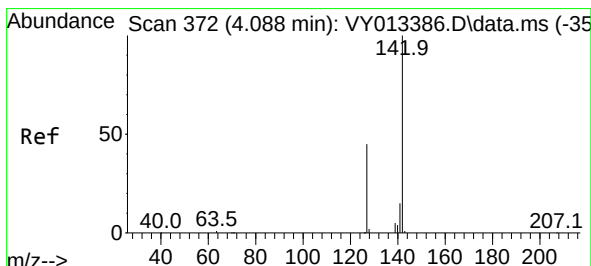
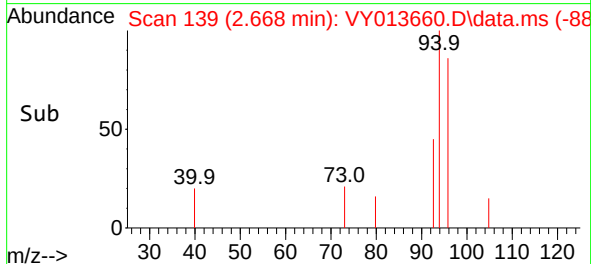
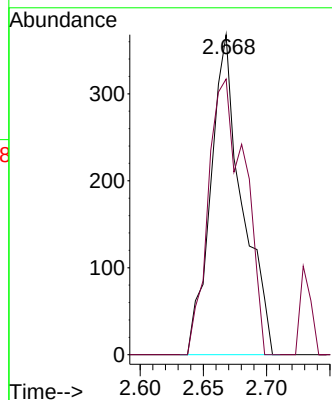
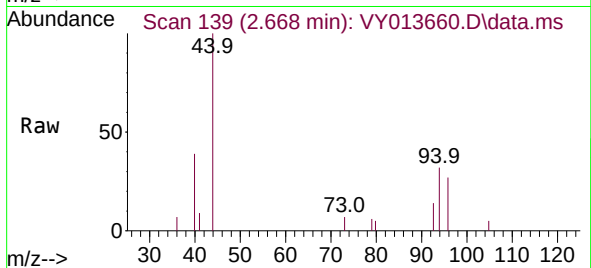




#5
Bromomethane
Concen: 8.234 ug/l
RT: 2.668 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

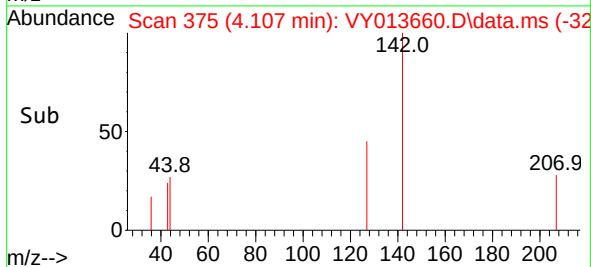
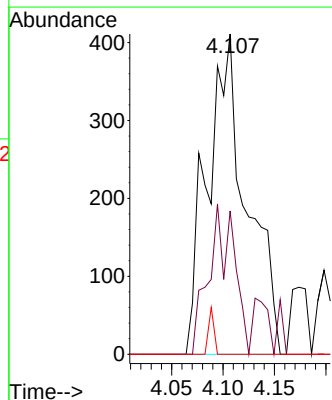
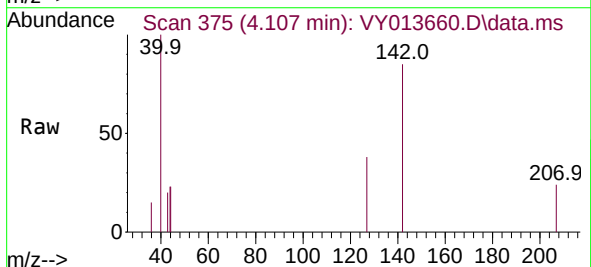
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

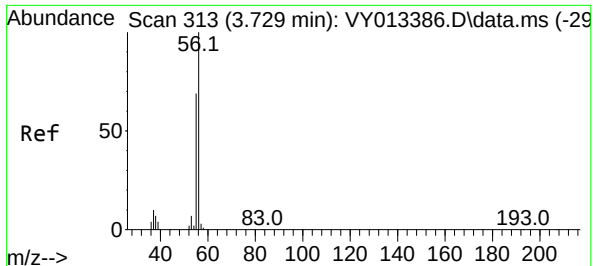
Tgt Ion: 94 Resp: 632
Ion Ratio Lower Upper
94 100
96 86.1 74.2 111.2



#10
Methyl Iodide
Concen: 10.672 ug/l
RT: 4.107 min Scan# 375
Delta R.T. 0.019 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion: 142 Resp: 1097
Ion Ratio Lower Upper
142 100
127 30.2 36.1 54.1#
141 2.0 11.6 17.4#

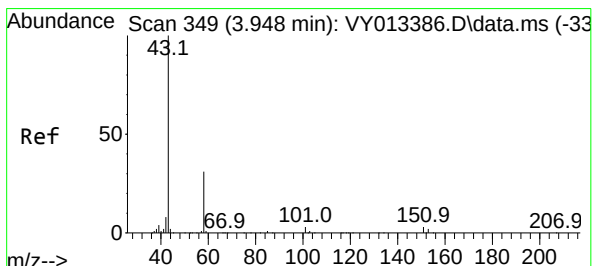
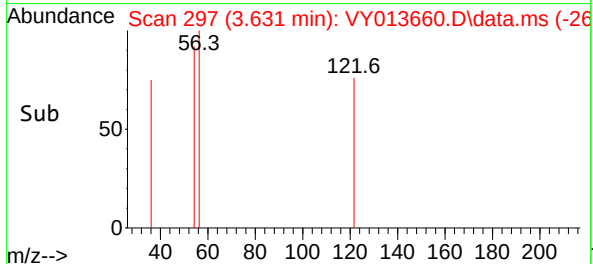
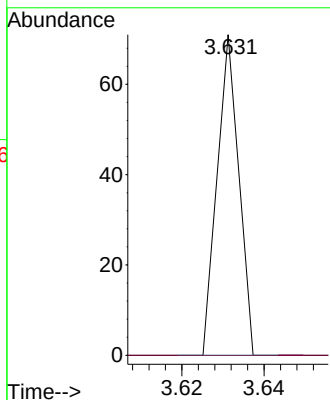
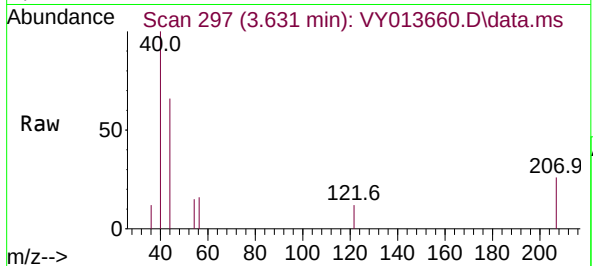




#13
Acrolein
Concen: Below Cal
RT: 3.631 min Scan# 24
Delta R.T. -0.098 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

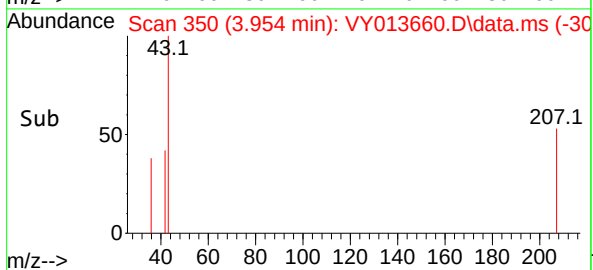
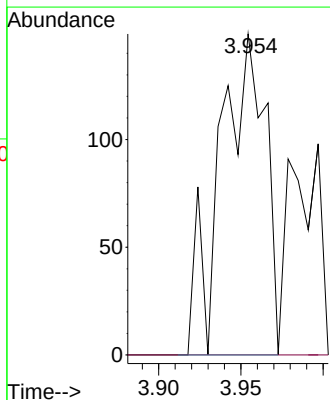
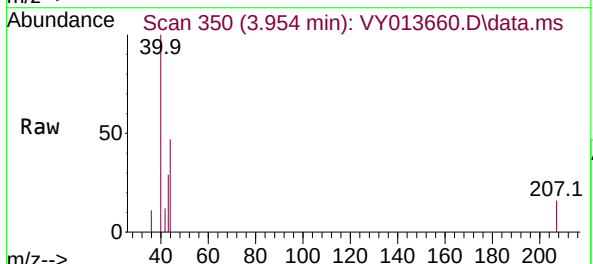
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

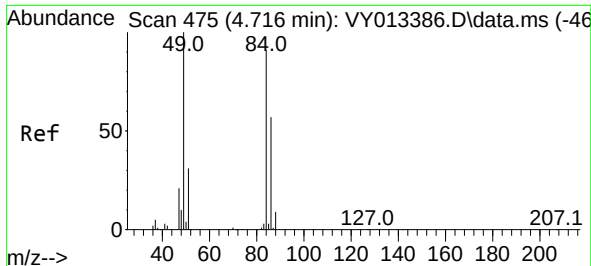
Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#



#16
Acetone
Concen: 8.697 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion: 43 Resp: 285
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.729 min Scan# 41

Delta R.T. 0.013 min

Lab File: VY013660.D

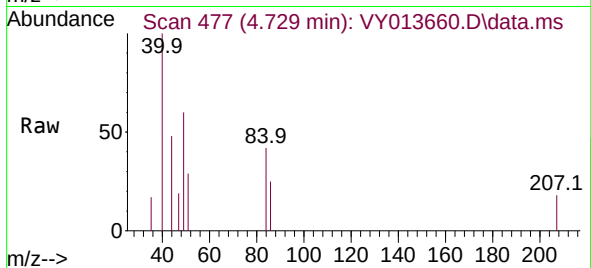
Acq: 09 May 2023 12:04

Instrument :

MSVOA_Y

ClientSampleId :

BU-02-050823



Tgt Ion: 84 Resp: 223

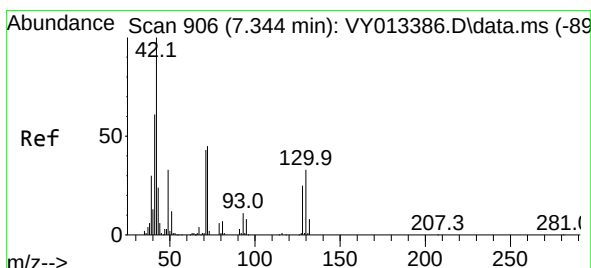
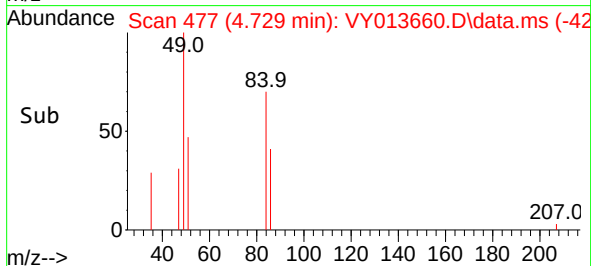
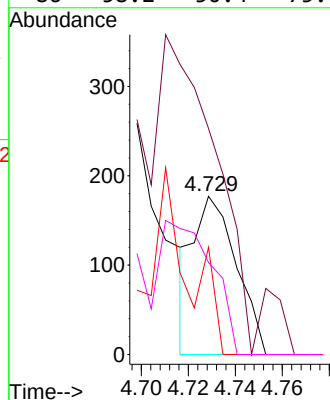
Ion Ratio Lower Upper

84 100

49 108.5 88.0 132.0

51 67.8 27.4 41.0#

86 58.2 50.4 75.6



#29

Tetrahydrofuran

Concen: 1.817 ug/l

RT: 7.112 min Scan# 868

Delta R.T. -0.232 min

Lab File: VY013660.D

Acq: 09 May 2023 12:04

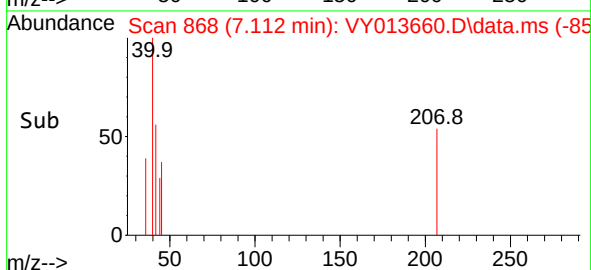
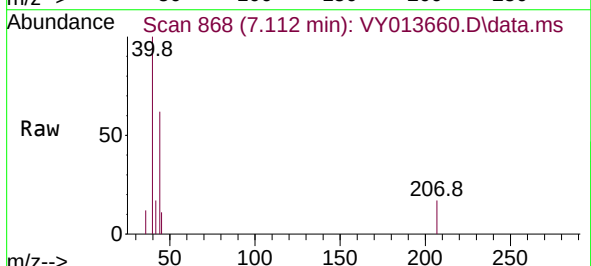
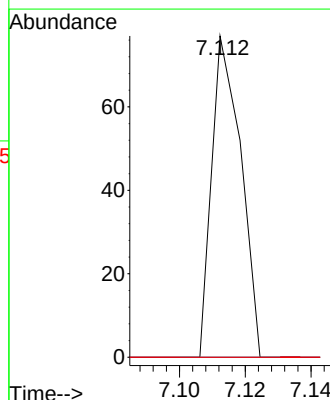
Tgt Ion: 42 Resp: 47

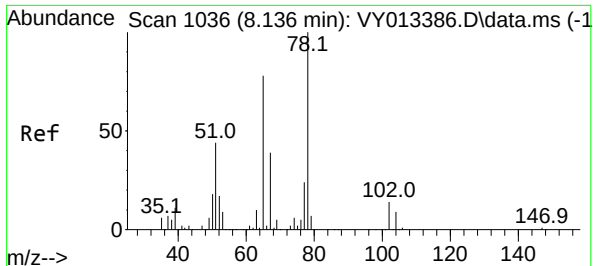
Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 34.3 51.5#





#33

1,2-Dichloroethane-d4

Concen: 62.369 ug/l

RT: 8.149 min Scan# 110

Delta R.T. 0.013 min

Lab File: VY013660.D

Acq: 09 May 2023 12:04

Instrument :

MSVOA_Y

ClientSampleId :

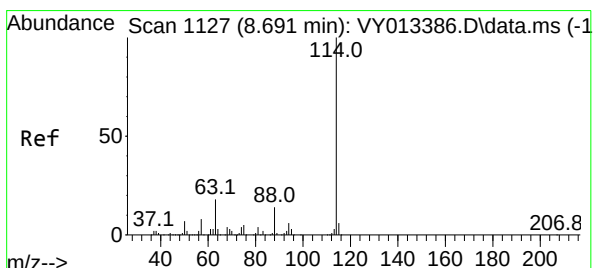
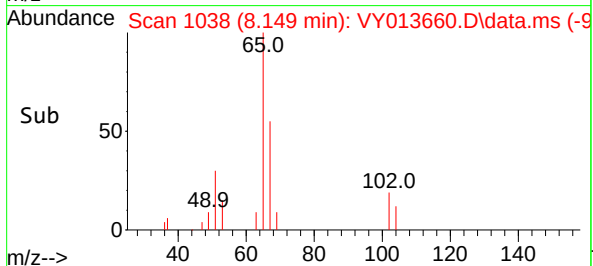
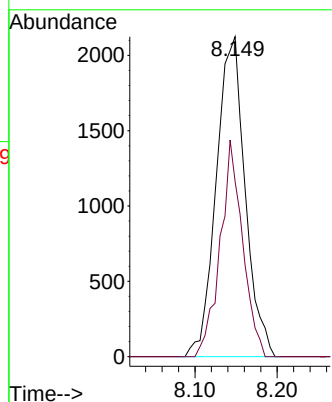
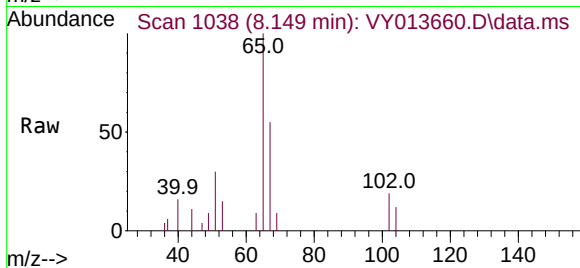
BU-02-050823

Tgt Ion: 65 Resp: 5190

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY013660.D

Acq: 09 May 2023 12:04

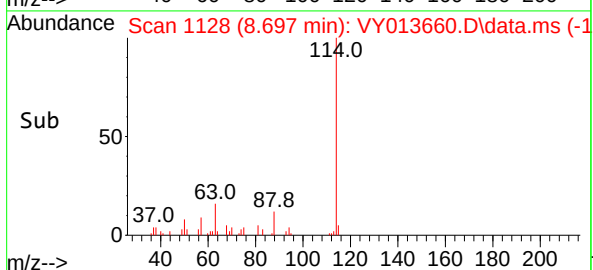
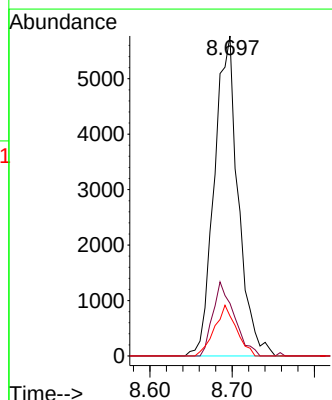
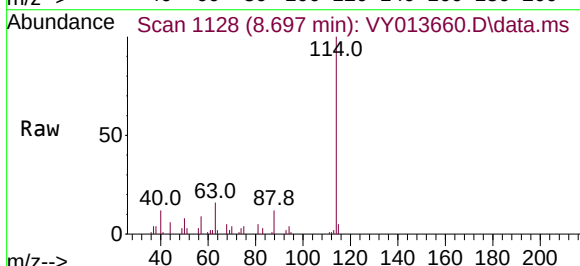
Tgt Ion: 114 Resp: 11662

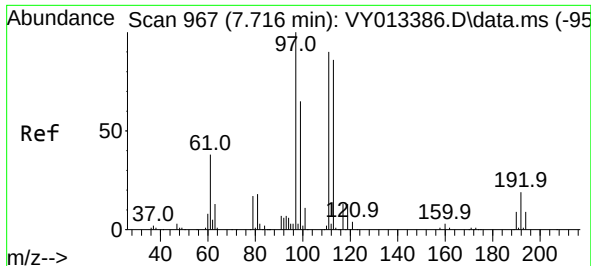
Ion Ratio Lower Upper

114 100

63 16.5 0.0 36.6

88 12.5 0.0 28.8

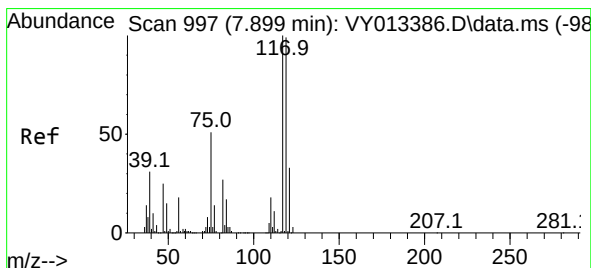
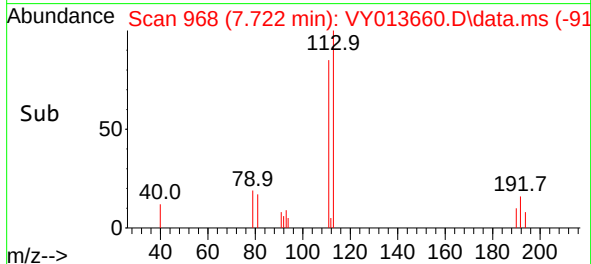
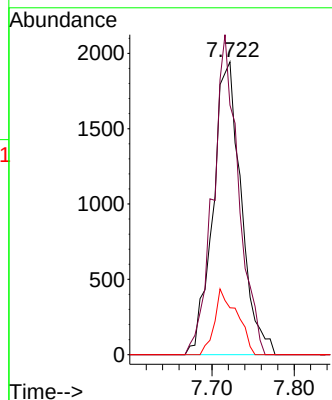
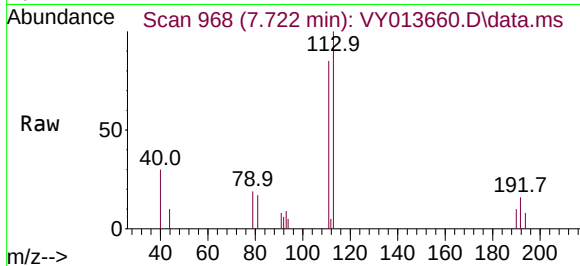




#35
Dibromofluoromethane
Concen: 63.028 ug/l
RT: 7.722 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

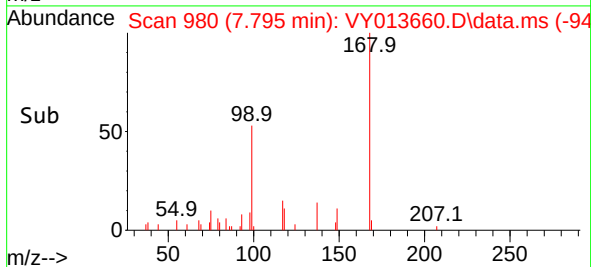
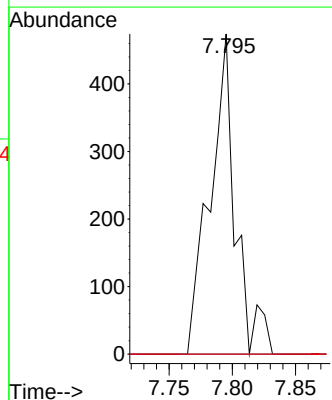
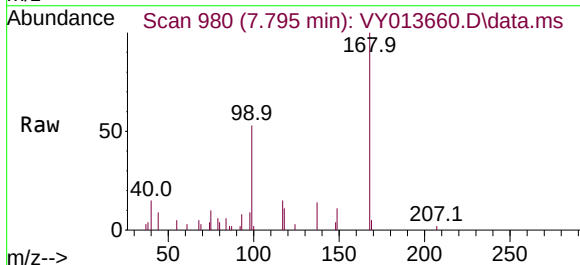
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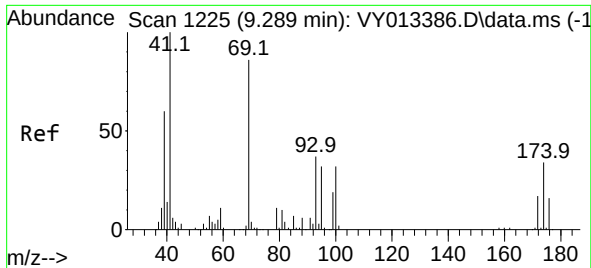
Tgt Ion:113 Resp: 4623
Ion Ratio Lower Upper
113 100
111 98.9 82.2 123.2
192 17.9 16.7 25.1



#38
Carbon Tetrachloride
Concen: 5.204 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.104 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion:117 Resp: 664
Ion Ratio Lower Upper
117 100
119 0.0 79.0 118.6#
121 0.0 26.6 40.0#

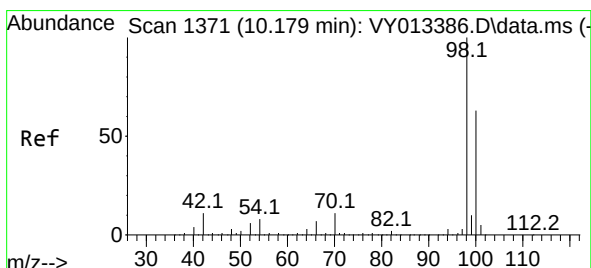
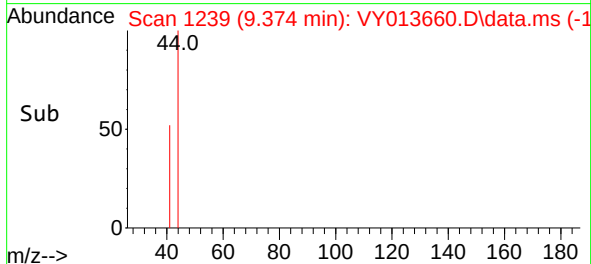
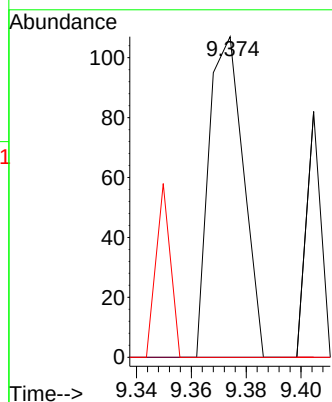
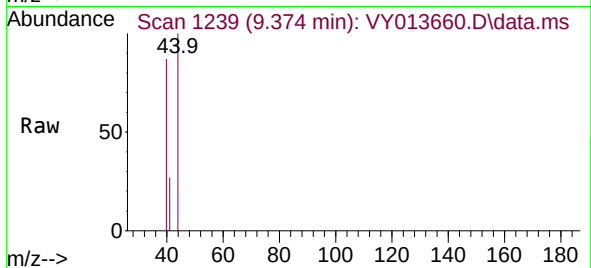




#48
Methyl methacrylate
Concen: 1.310 ug/l
RT: 9.374 min Scan# 11
Delta R.T. 0.085 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

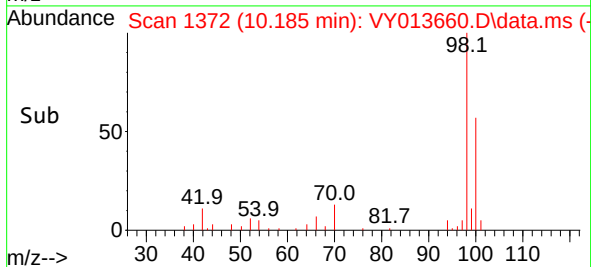
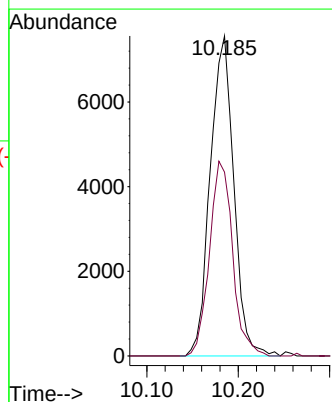
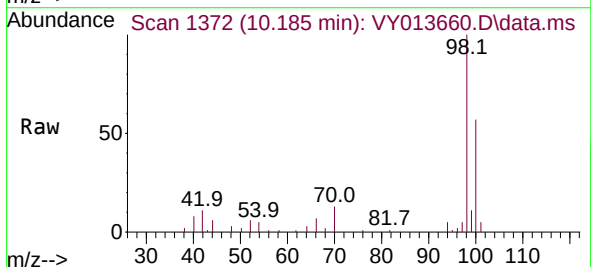
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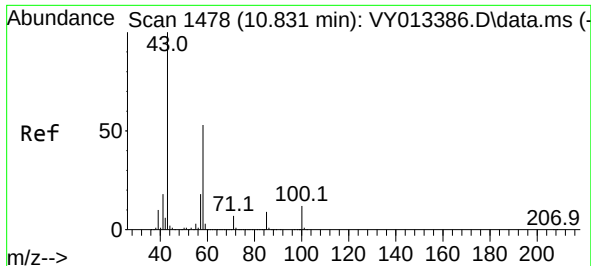
Tgt Ion: 41 Resp: 93
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 0.0 47.9 71.9#



#50
Toluene-d8
Concen: 51.964 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion: 98 Resp: 13559
Ion Ratio Lower Upper
98 100
100 60.0 50.5 75.7

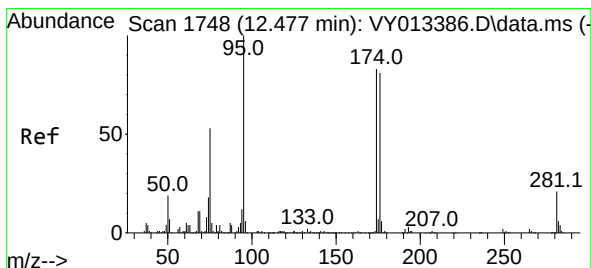
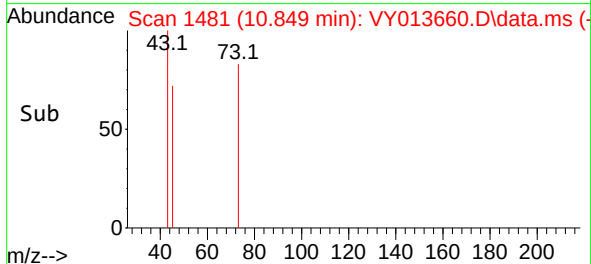
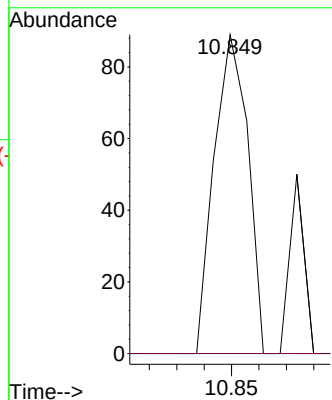
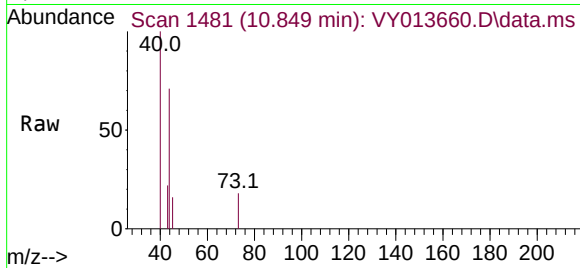




#59
2-Hexanone
Concen: 1.213 ug/l
RT: 10.849 min Scan# 1478
Delta R.T. 0.018 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

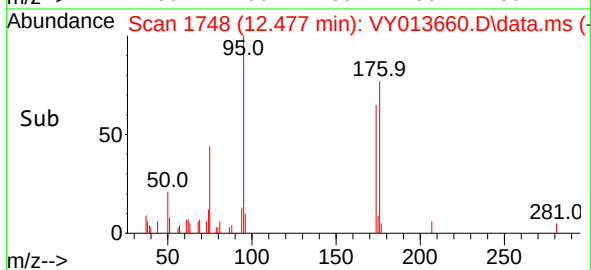
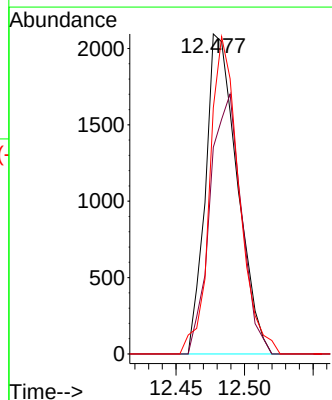
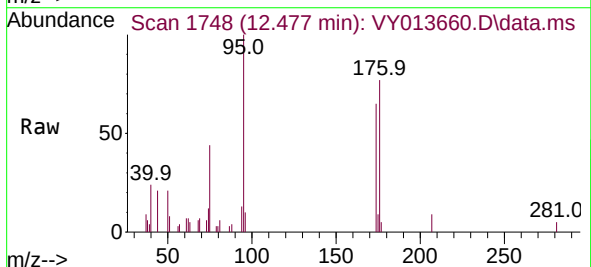
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

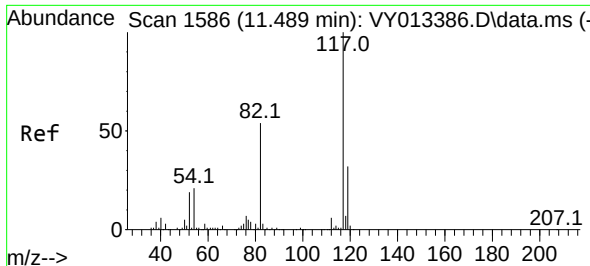
Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 38.526 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion: 95 Resp: 3389
Ion Ratio Lower Upper
95 100
174 79.8 0.0 182.0
176 90.8 0.0 175.4

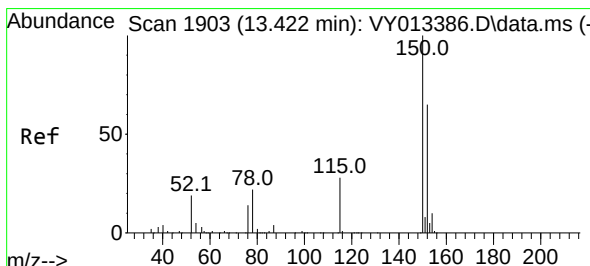
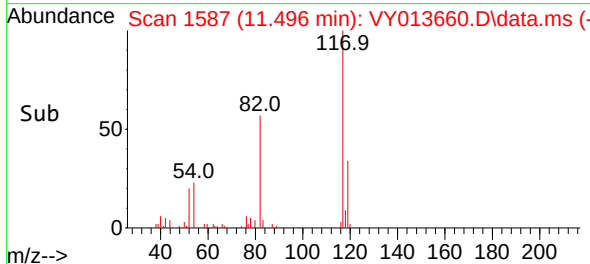
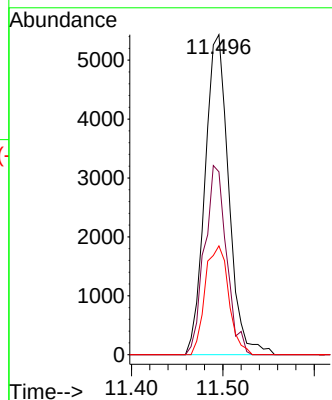
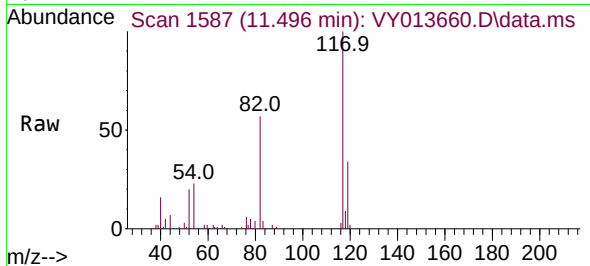




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 11
Delta R.T. 0.007 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

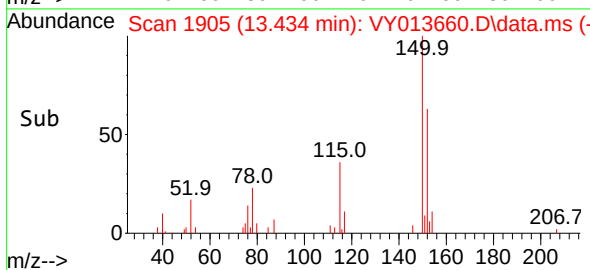
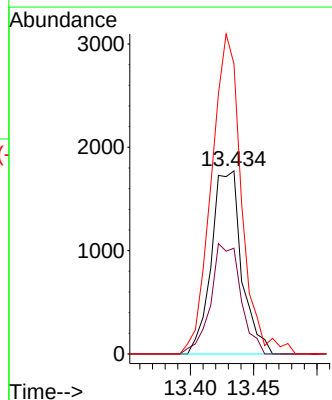
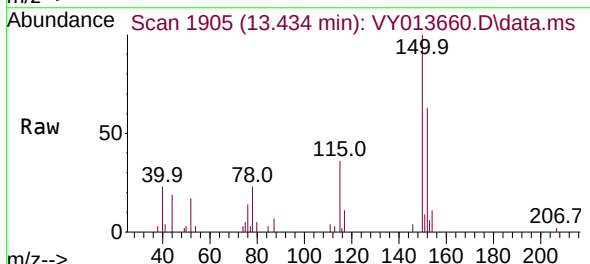
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

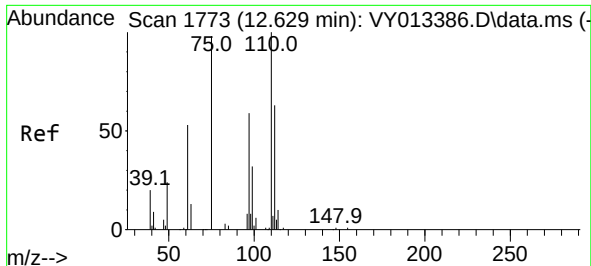
Tgt Ion:	117	Resp:	9772
Ion	Ratio	Lower	Upper
117	100		
82	57.2	43.0	64.6
119	34.0	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. 0.012 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion:	152	Resp:	2937
Ion	Ratio	Lower	Upper
152	100		
115	59.9	28.1	84.2
150	174.4	0.0	352.0

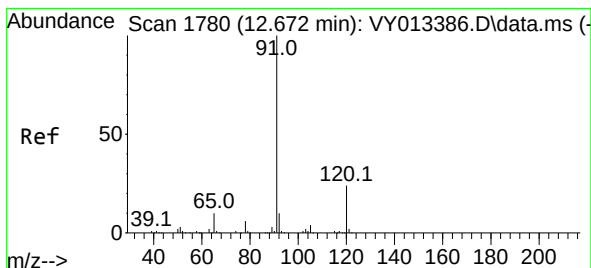
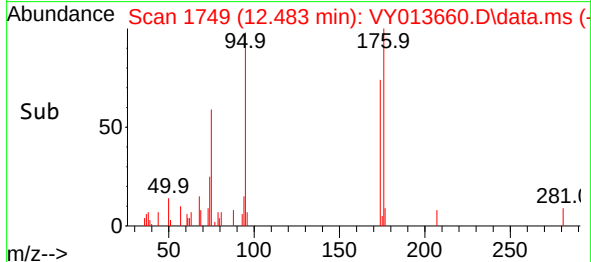
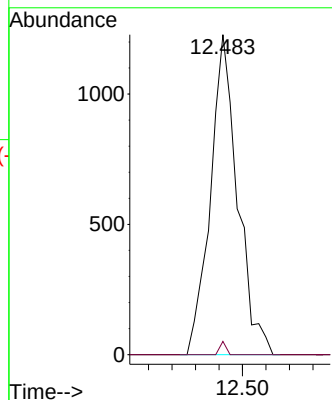
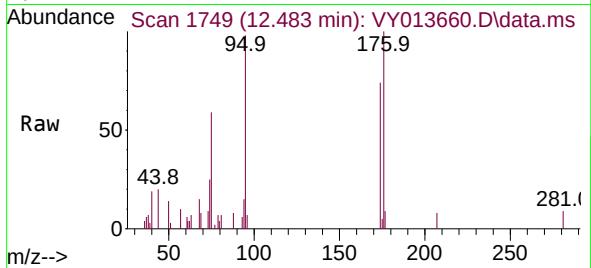




#76
1,2,3-Trichloropropane
Concen: 49.686 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.146 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

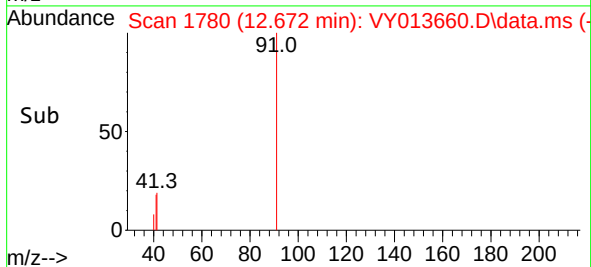
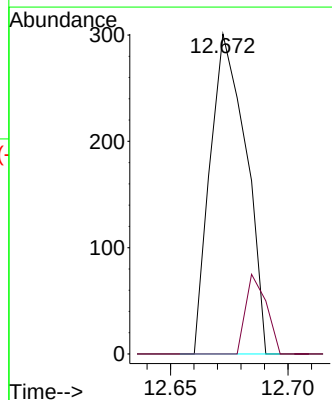
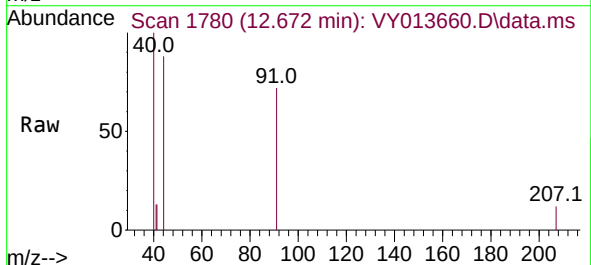
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

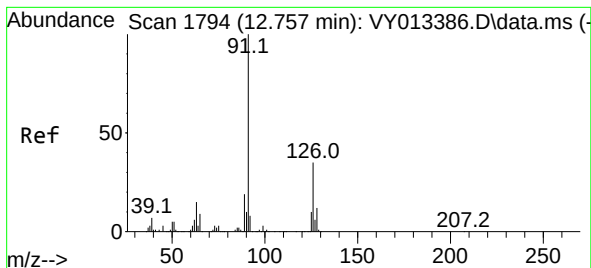
Tgt Ion: 75 Resp: 1968
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#78
n-propylbenzene
Concen: 1.166 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion: 91 Resp: 319
Ion Ratio Lower Upper
91 100
120 14.4 11.9 35.9





#79

2-Chlorotoluene

Concen: 1.747 ug/l

RT: 12.752 min Scan# 11

Delta R.T. -0.005 min

Lab File: VY013660.D

Acq: 09 May 2023 12:04

Instrument :

MSVOA_Y

ClientSampleId :

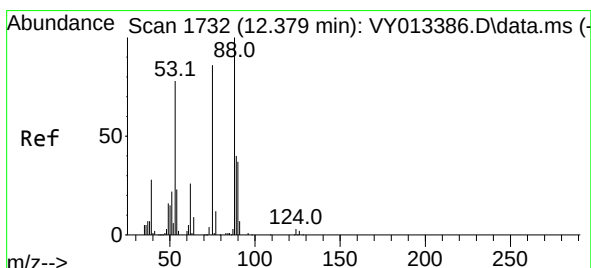
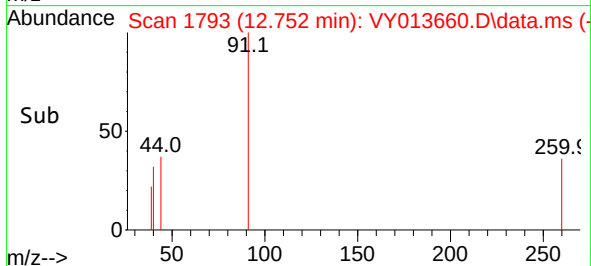
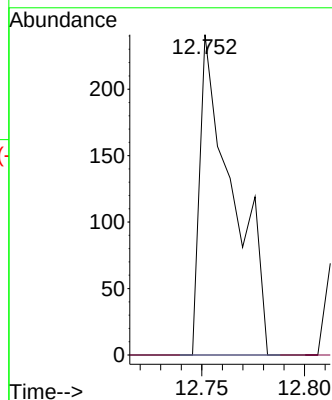
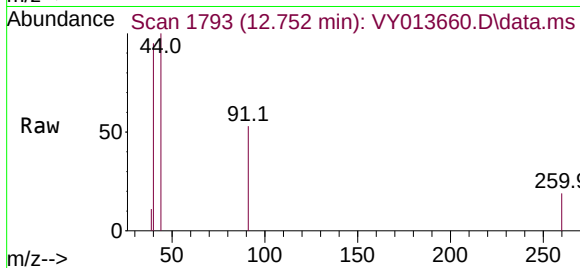
BU-02-050823

Tgt Ion: 91 Resp: 267

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 101.635 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY013660.D

Acq: 09 May 2023 12:04

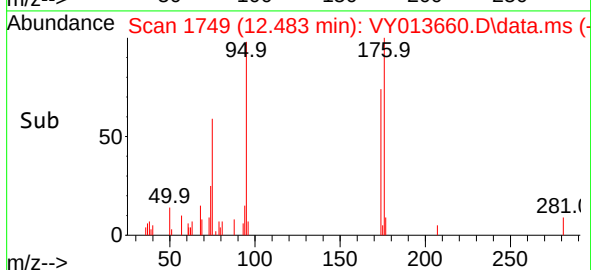
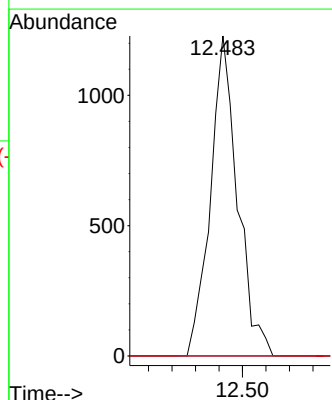
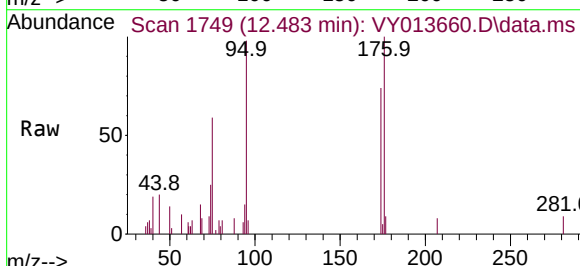
Tgt Ion: 75 Resp: 1968

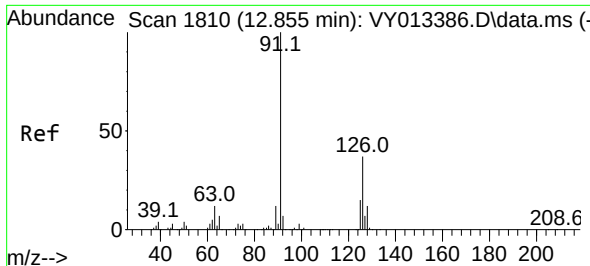
Ion Ratio Lower Upper

75 100

53 0.0 73.2 109.8#

89 0.0 38.0 57.0#

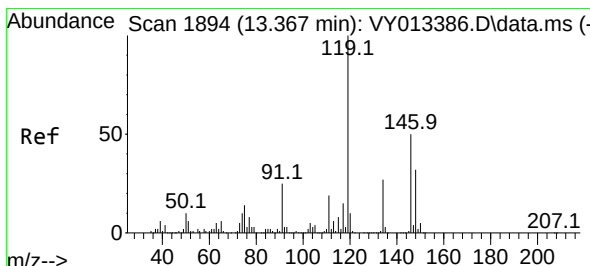
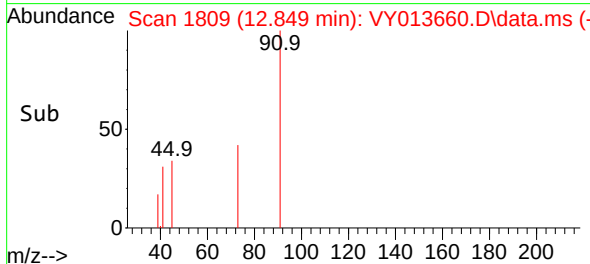
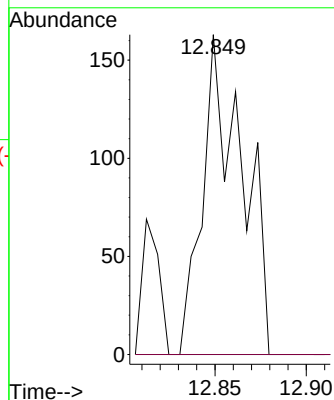
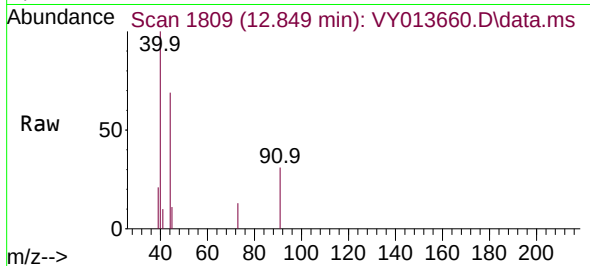




#82
4-Chlorotoluene
Concen: 1.538 ug/l
RT: 12.849 min Scan# 1809
Delta R.T. -0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

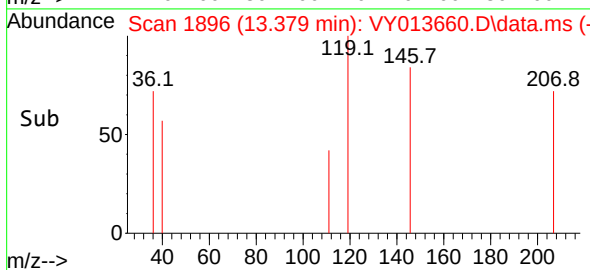
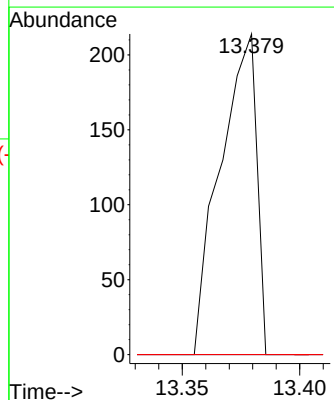
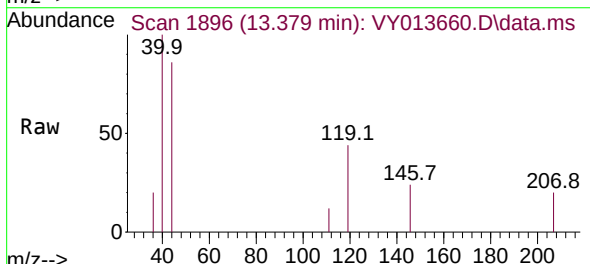
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

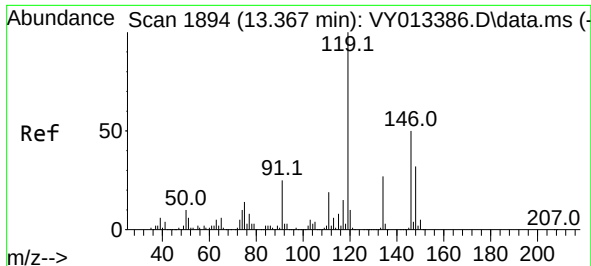
Tgt Ion: 91 Resp: 245
Ion Ratio Lower Upper
91 100
126 0.0 17.9 53.8#



#86
p-Isopropyltoluene
Concen: 1.213 ug/l
RT: 13.379 min Scan# 1896
Delta R.T. 0.012 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion: 119 Resp: 230
Ion Ratio Lower Upper
119 100
134 0.0 13.4 40.2#
91 0.0 12.1 36.3#

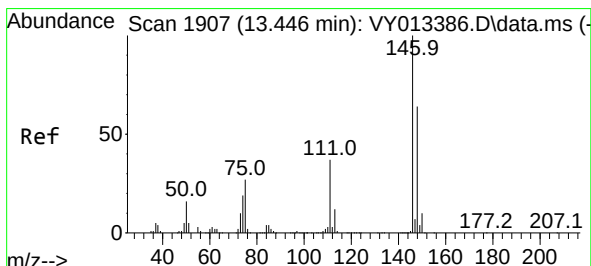
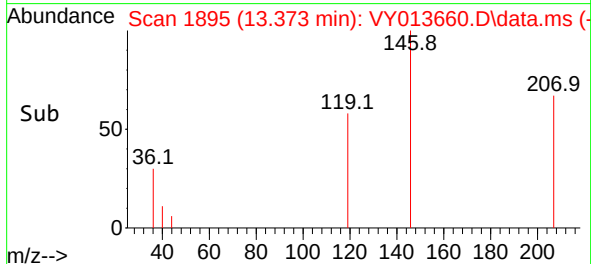
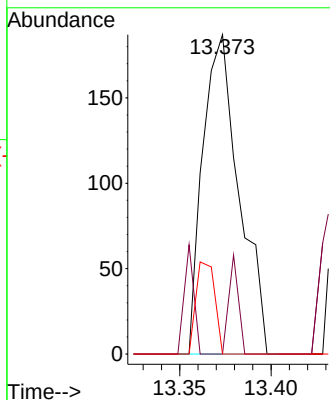
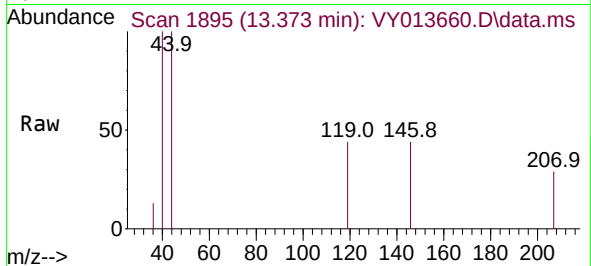




#87
1,3-Dichlorobenzene
Concen: 2.516 ug/l
RT: 13.373 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

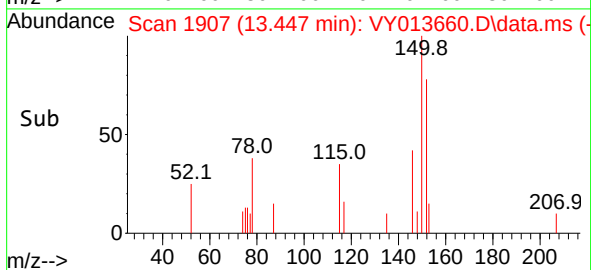
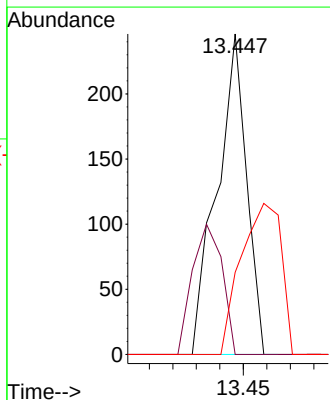
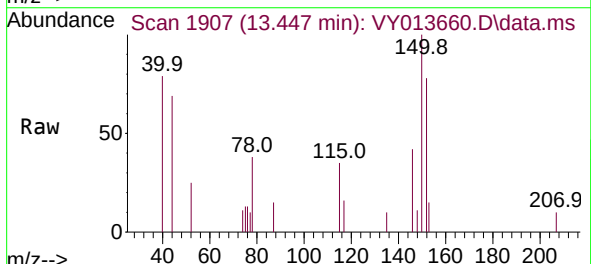
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

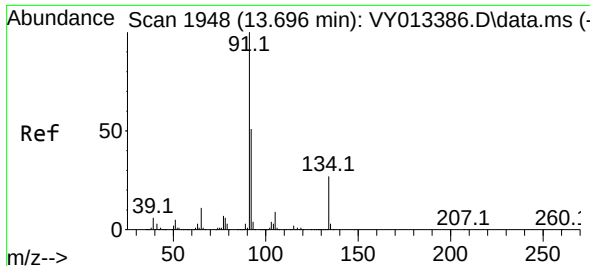
Tgt Ion:146 Resp: 258
Ion Ratio Lower Upper
146 100
111 8.1 19.3 57.9#
148 0.0 31.9 95.7#



#88
1,4-Dichlorobenzene
Concen: 2.075 ug/l
RT: 13.447 min Scan# 1907
Delta R.T. 0.001 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion:146 Resp: 215
Ion Ratio Lower Upper
146 100
111 40.9 18.9 56.5
148 0.0 31.9 95.5#





#89

n-Butylbenzene

Concen: 1.097 ug/l

RT: 13.697 min Scan# 1948

Delta R.T. 0.001 min

Lab File: VY013660.D

Acq: 09 May 2023 12:04

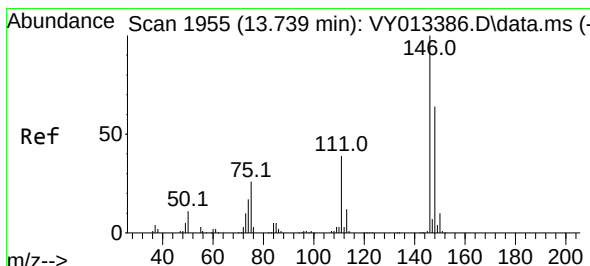
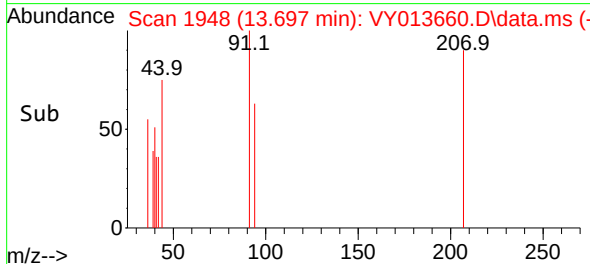
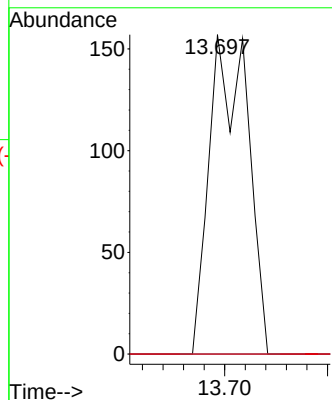
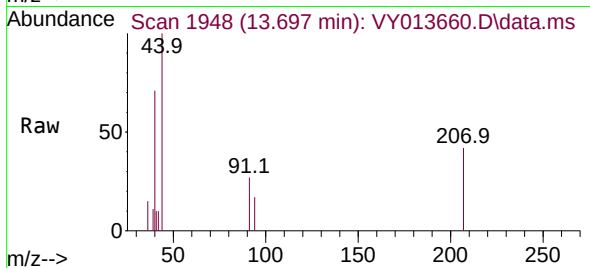
Instrument :

MSVOA_Y

ClientSampleId :

BU-02-050823

Tgt Ion:	91	Resp:	203
Ion	Ratio	Lower	Upper
91	100		
92	0.0	25.8	77.3#
134	0.0	13.5	40.4#



#91

1,2-Dichlorobenzene

Concen: 2.225 ug/l

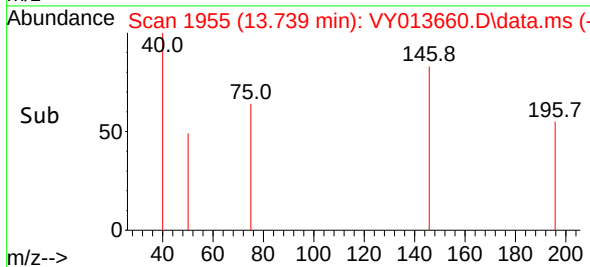
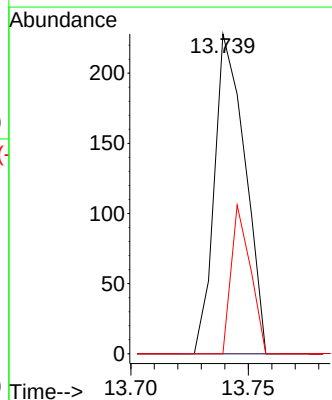
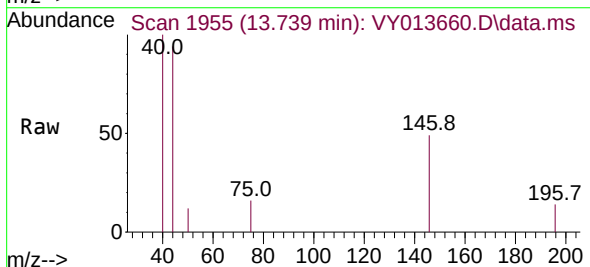
RT: 13.739 min Scan# 1955

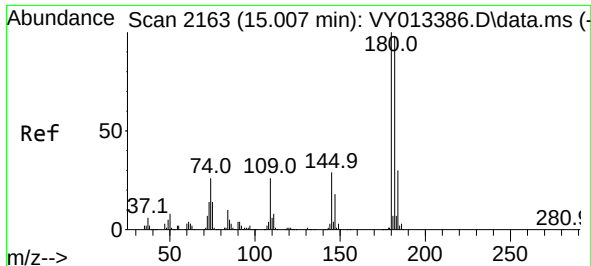
Delta R.T. 0.000 min

Lab File: VY013660.D

Acq: 09 May 2023 12:04

Tgt Ion:	146	Resp:	206
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.8	59.4#
148	29.1	31.8	95.4#

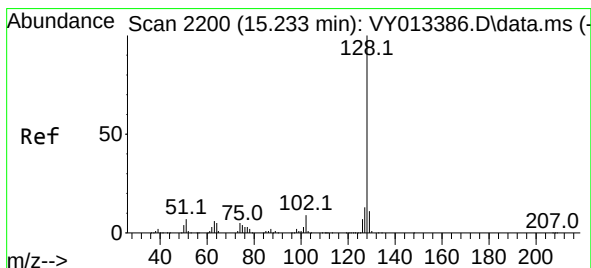
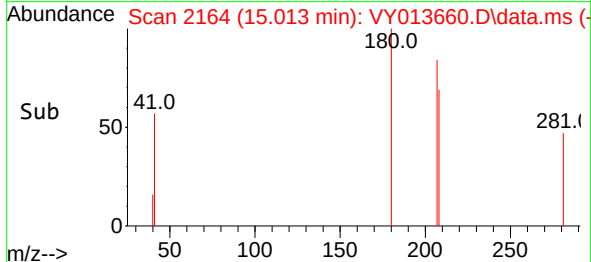
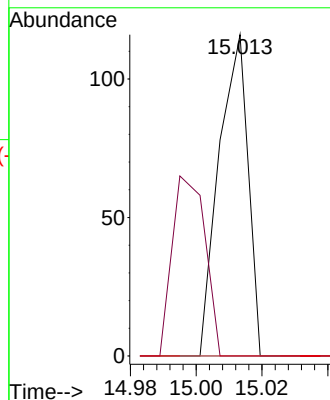
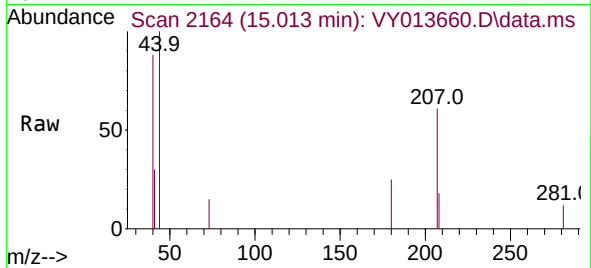




#93
1,2,4-Trichlorobenzene
Concen: 1.286 ug/l
RT: 15.013 min Scan# 2163
Delta R.T. 0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

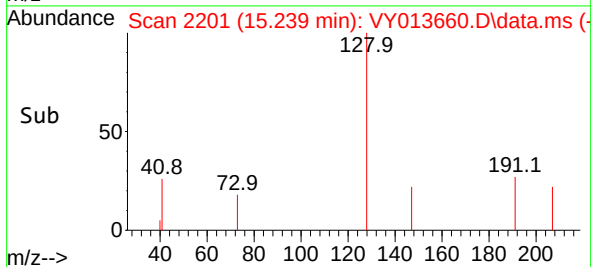
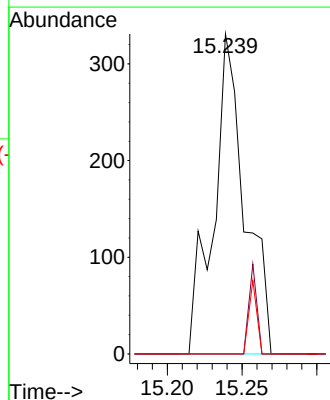
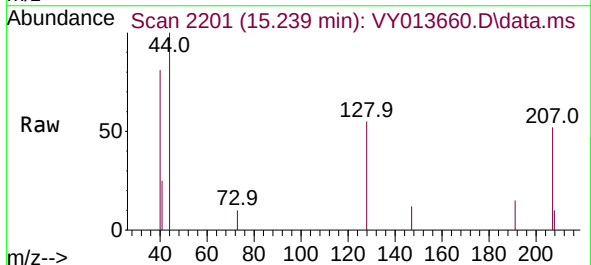
Instrument :
MSVOA_Y
ClientSampleId :
BU-02-050823

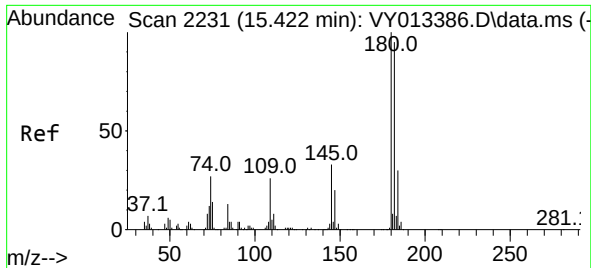
Tgt Ion:180 Resp: 71
Ion Ratio Lower Upper
180 100
182 63.4 48.5 145.5
145 0.0 15.0 45.0#



#95
Naphthalene
Concen: 4.049 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY013660.D
Acq: 09 May 2023 12:04

Tgt Ion:128 Resp: 485
Ion Ratio Lower Upper
128 100
127 7.0 10.7 16.1#
129 5.8 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.780 ug/l
 RT: 15.434 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VY013660.D
 Acq: 09 May 2023 12:04

Instrument :
 MSVOA_Y
 ClientSampleId :
 BU-02-050823

Tgt Ion	Ratio	Lower	Upper
180	100		
182	50.0	47.1	141.3
145	0.0	15.9	47.7#

