

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY053123\
 Data File : VY013939.D
 Acq On : 31 May 2023 16:35
 Operator : KP/MD
 Sample : 02955-11
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: May 31 17:33:15 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052323S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 24 05:25:47 2023
 Response via : Initial Calibration

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

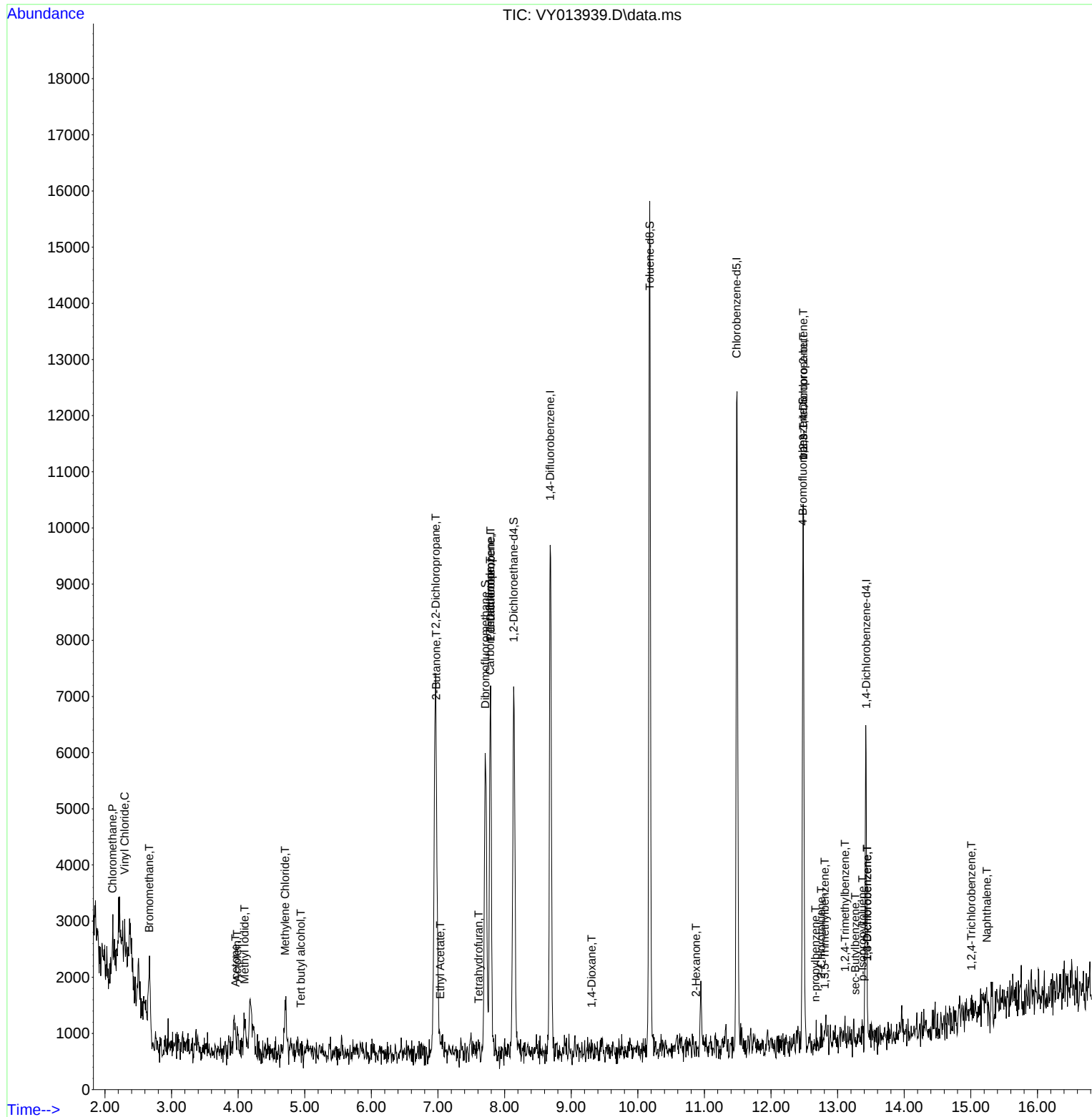
Internal Standards						
1) Pentafluorobenzene	7.789	168	5021	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	8360	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.483	117	6592	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	1369	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	5239	90.191	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 180.380%#			
35) Dibromofluoromethane	7.710	113	3928	72.755	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 145.520%			
50) Toluene-d8	10.179	98	10464	50.995	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.000%			
62) 4-Bromofluorobenzene	12.477	95	2630	38.559	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 77.120%			
Target Compounds						Qvalue
3) Chloromethane	2.113	50	437	7.799	ug/l	94
4) Vinyl Chloride	2.296	62	58	1.012	ug/l #	44
5) Bromomethane	2.662	94	440	9.663	ug/l	89
10) Methyl Iodide	4.095	142	1078	17.369	ug/l #	93
11) Tert butyl alcohol	4.942	59	126	28.315	ug/l #	73
13) Acrolein	3.985	56	42	6.275	ug/l #	15
16) Acetone	3.960	43	370	21.461	ug/l	93
20) Methylene Chloride	4.704	84	441	4.924	ug/l #	65
25) 2-Butanone	6.972	43	168	7.986	ug/l #	72
26) 2,2-Dichloropropane	6.966	77	442	4.855	ug/l #	53
29) Tetrahydrofuran	7.612	42	25	1.990	ug/l #	36
36) 1,1-Dichloropropene	7.789	75	368	4.475	ug/l #	42
37) Ethyl Acetate	7.033	43	66	1.316	ug/l #	71
38) Carbon Tetrachloride	7.783	117	619	6.619	ug/l #	13
49) 1,4-Dioxane	9.307	88	23	56.477	ug/l #	13
59) 2-Hexanone	10.874	43	45	1.299	ug/l #	28
76) 1,2,3-Trichloropropane	12.483	75	1238	76.693	ug/l #	100
78) n-propylbenzene	12.666	91	140	1.112	ug/l #	53
79) 2-Chlorotoluene	12.752	91	158	2.247	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.806	105	216	2.568	ug/l #	29
81) trans-1,4-Dichloro-2-b...	12.483	75	1238	166.476	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.111	105	105	1.272	ug/l #	31
85) sec-Butylbenzene	13.264	105	170	1.562	ug/l	86
86) p-Isopropyltoluene	13.373	119	171	1.901	ug/l #	49
87) 1,3-Dichlorobenzene	13.447	146	70	1.450	ug/l	74
88) 1,4-Dichlorobenzene	13.447	146	70	1.456	ug/l	73
93) 1,2,4-Trichlorobenzene	15.007	180	123	4.623	ug/l #	12
95) Naphthalene	15.239	128	361	10.165	ug/l #	68

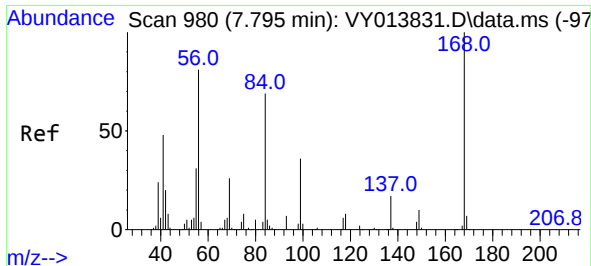
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed May 24 05:25:47 2023
Response via : Initial Calibration

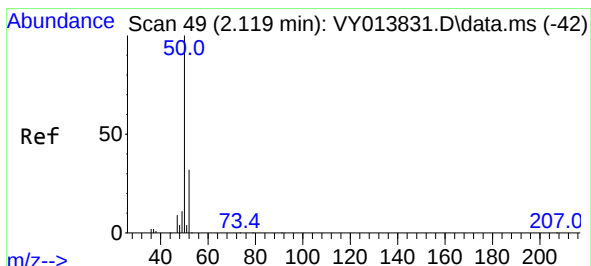
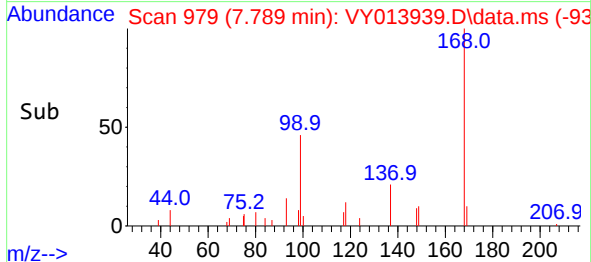
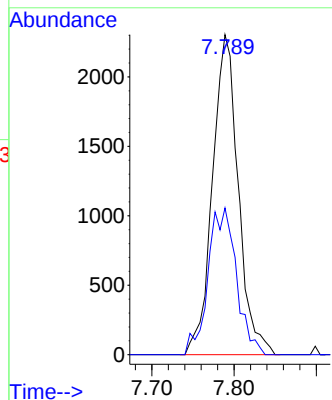
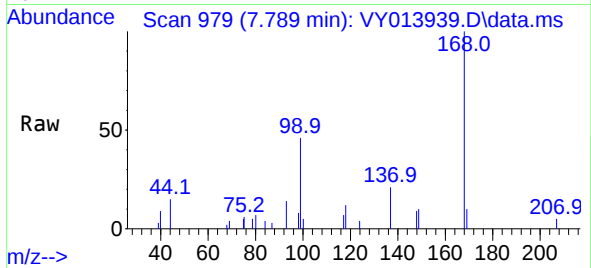




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

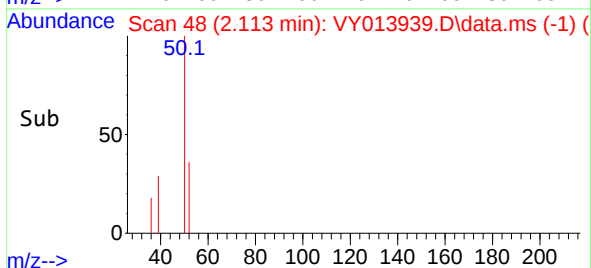
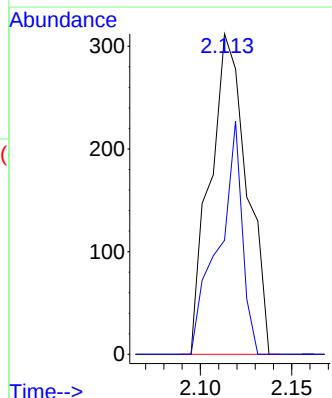
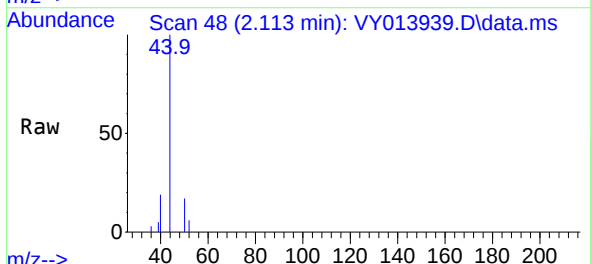
Instrument :
MSVOA_Y
ClientSampleId :

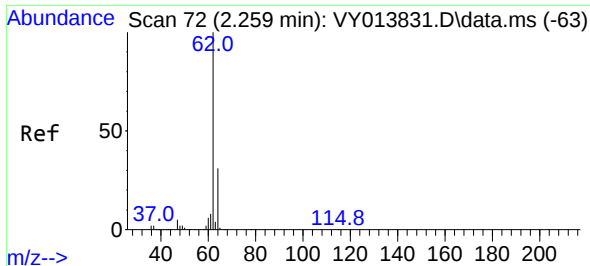
Tgt Ion:168 Resp: 5021
Ion Ratio Lower Upper
168 100
99 45.8 43.4 65.2



#3
Chloromethane
Concen: 7.799 ug/l
RT: 2.113 min Scan# 48
Delta R.T. -0.006 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Tgt Ion: 50 Resp: 437
Ion Ratio Lower Upper
50 100
52 35.6 25.7 38.5

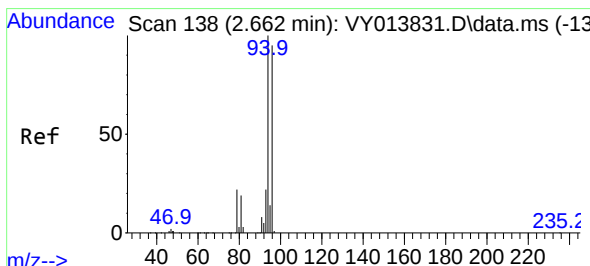
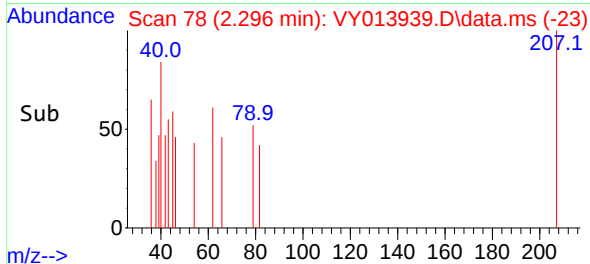
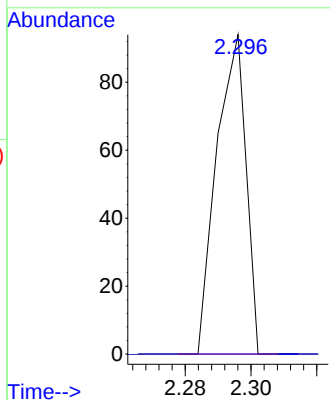
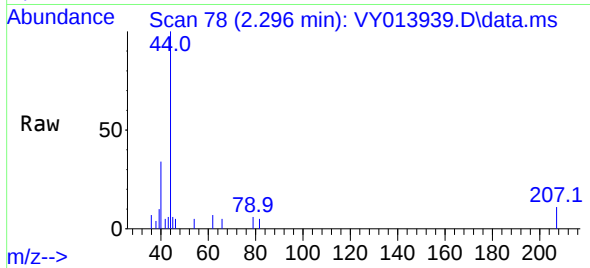




#4
 Vinyl Chloride
 Concen: 1.012 ug/l
 RT: 2.296 min Scan# 71
 Delta R.T. 0.037 min
 Lab File: VY013939.D
 Acq: 31 May 2023 16:35

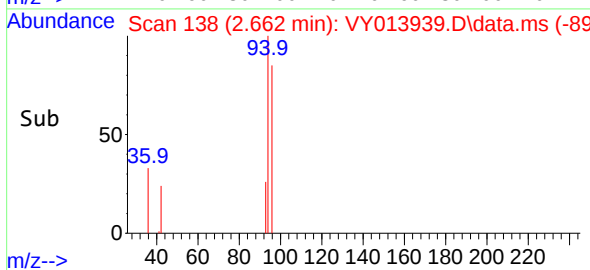
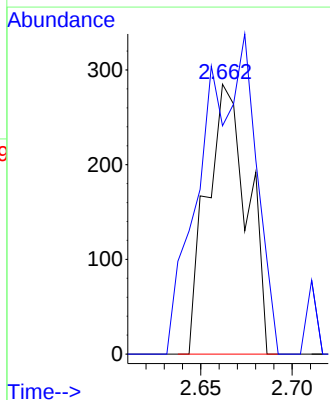
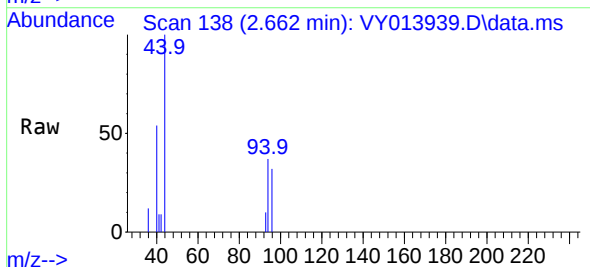
Instrument :
 MSVOA_Y
 ClientSampleId :

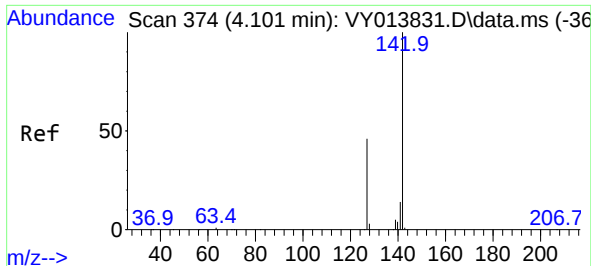
Tgt Ion: 62 Resp: 58
 Ion Ratio Lower Upper
 62 100
 64 0.0 24.8 37.2#



#5
 Bromomethane
 Concen: 9.663 ug/l
 RT: 2.662 min Scan# 138
 Delta R.T. 0.000 min
 Lab File: VY013939.D
 Acq: 31 May 2023 16:35

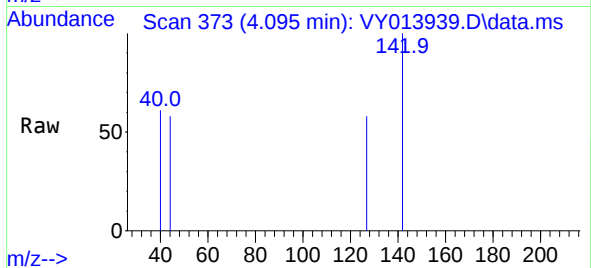
Tgt Ion: 94 Resp: 440
 Ion Ratio Lower Upper
 94 100
 96 84.6 76.2 114.2



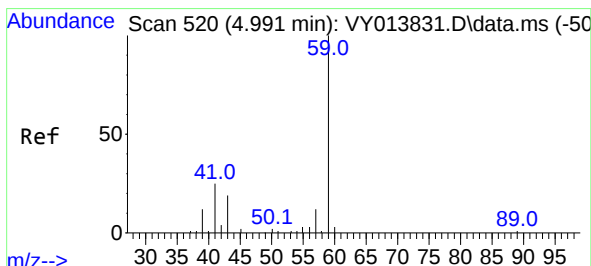
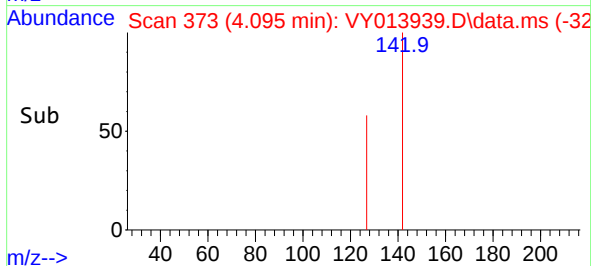
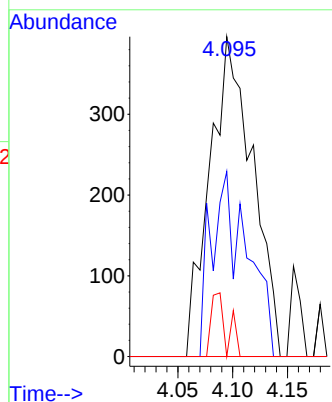


#10
Methyl Iodide
Concen: 17.369 ug/l
RT: 4.095 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Instrument :
MSVOA_Y
ClientSampleId :

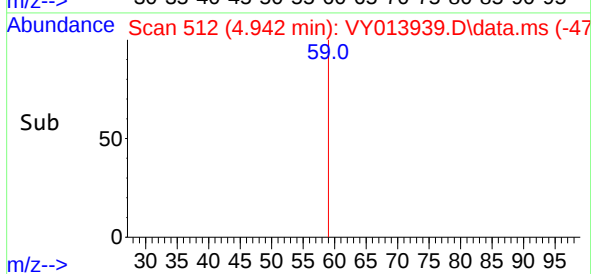
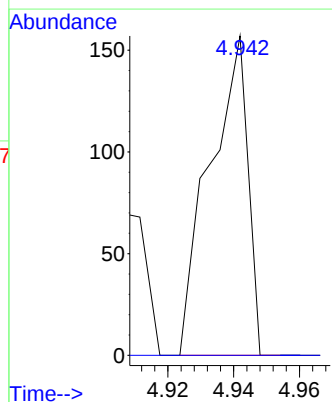
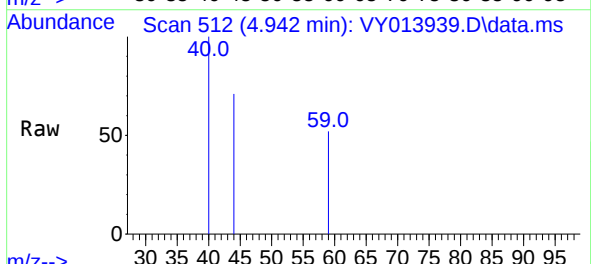


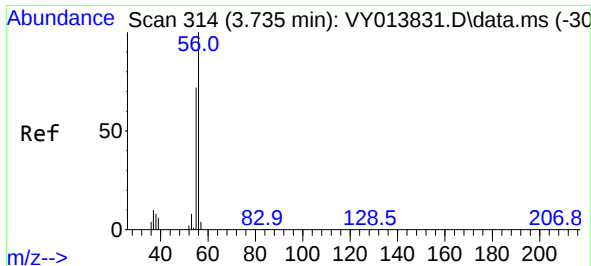
Tgt Ion:142 Resp: 1078
Ion Ratio Lower Upper
142 100
127 48.8 37.0 55.4
141 7.2 11.8 17.6#



#11
Tert butyl alcohol
Concen: 28.315 ug/l
RT: 4.942 min Scan# 512
Delta R.T. -0.049 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Tgt Ion: 59 Resp: 126
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

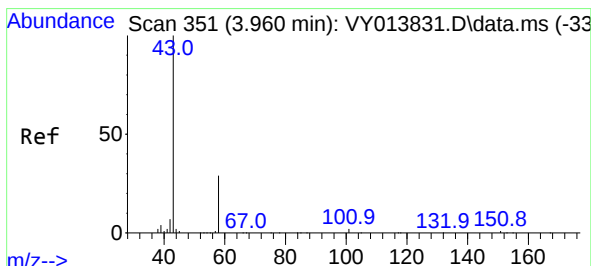
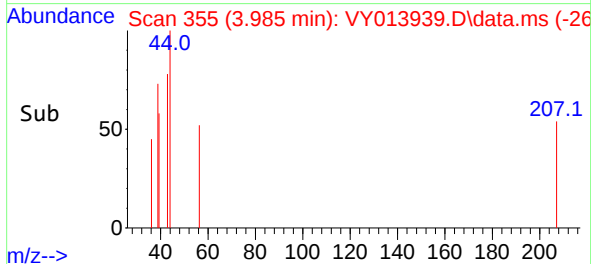
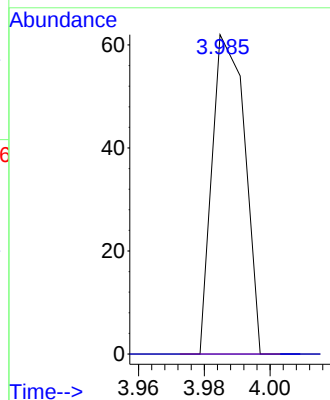
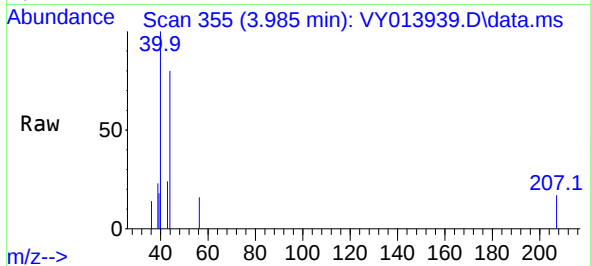




#13
Acrolein
Concen: 6.275 ug/l
RT: 3.985 min Scan# 314
Delta R.T. 0.250 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

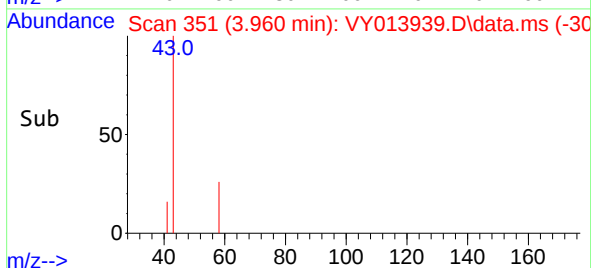
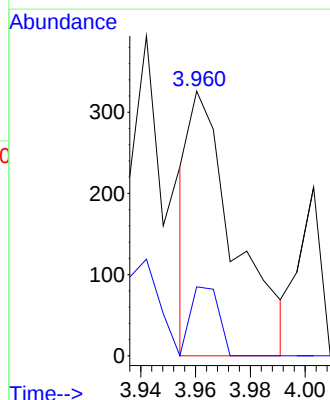
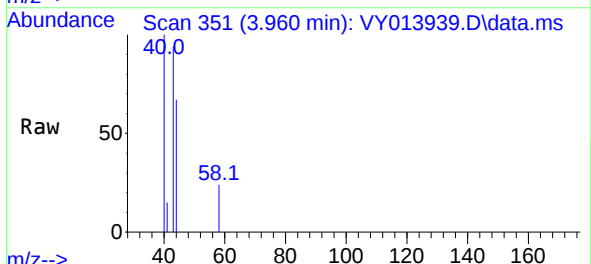
Instrument :
MSVOA_Y
ClientSampleId :

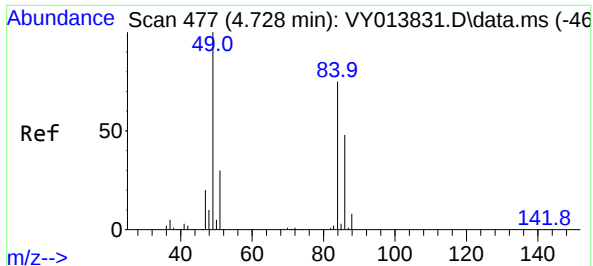
Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.2#



#16
Acetone
Concen: 21.461 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

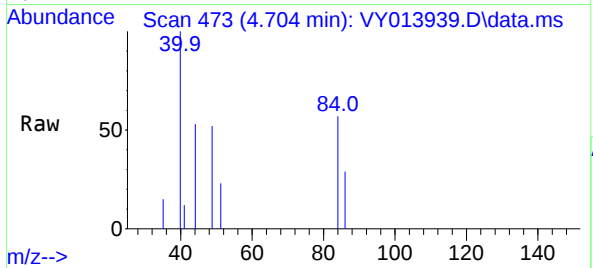
Tgt Ion: 43 Resp: 370
Ion Ratio Lower Upper
43 100
58 33.1 23.3 34.9



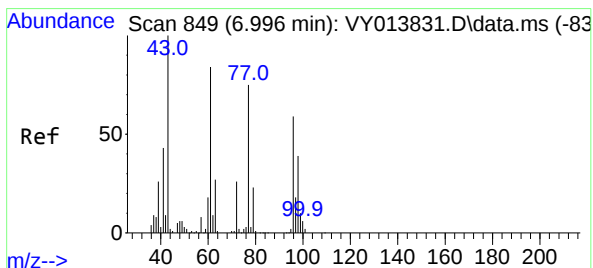
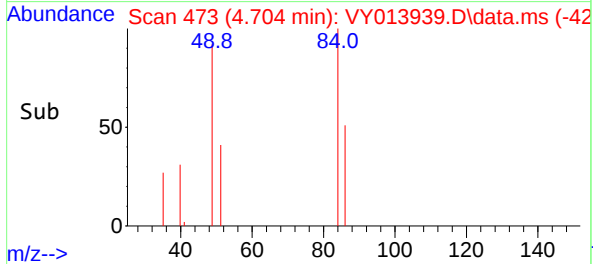
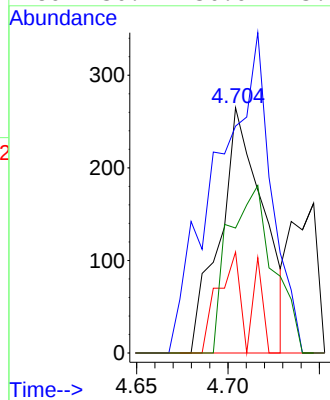


#20
Methylene Chloride
Concen: 4.924 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.024 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Instrument :
MSVOA_Y
ClientSampleId :

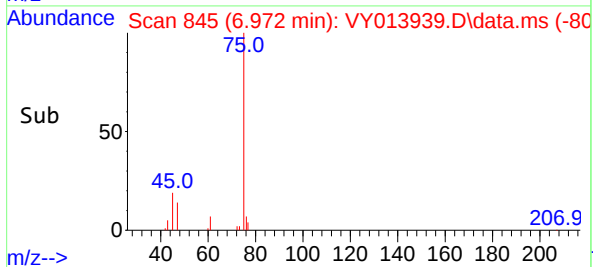
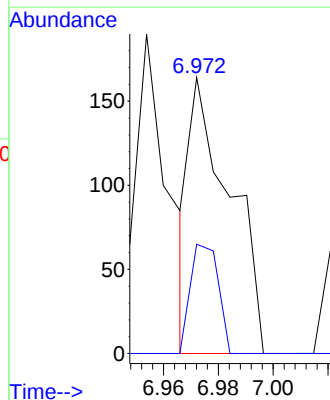
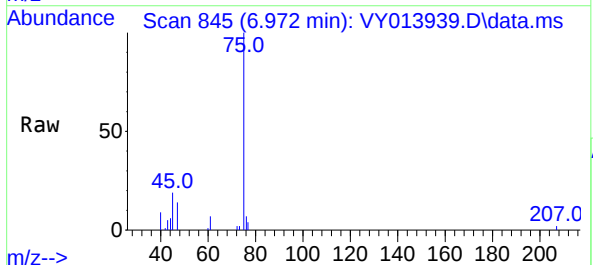


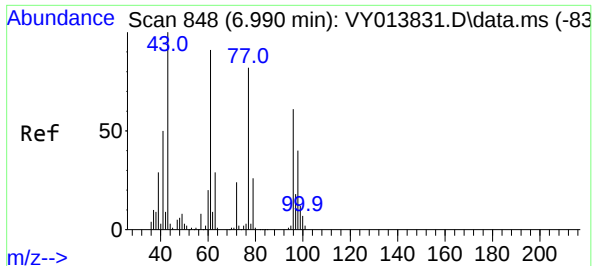
Tgt Ion: 84 Resp: 441
Ion Ratio Lower Upper
84 100
49 70.6 106.2 159.2#
51 41.1 31.4 47.0
86 50.9 50.6 75.8



#25
2-Butanone
Concen: 7.986 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.024 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Tgt Ion: 43 Resp: 168
Ion Ratio Lower Upper
43 100
72 39.6 20.5 30.7#





#26

2,2-Dichloropropane

Concen: 4.855 ug/l

RT: 6.966 min Scan# 84

Delta R.T. -0.024 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

Instrument :

MSVOA_Y

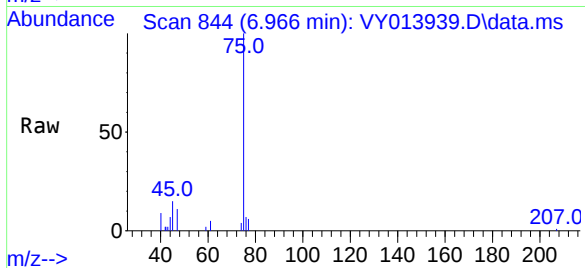
ClientSampleId :

Tgt Ion: 77 Resp: 442

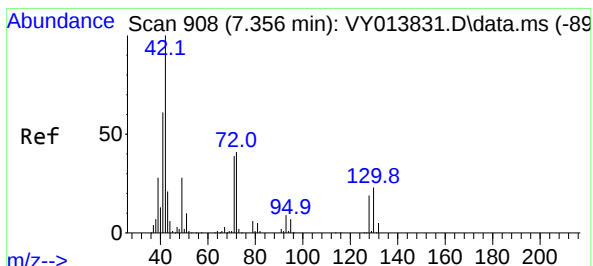
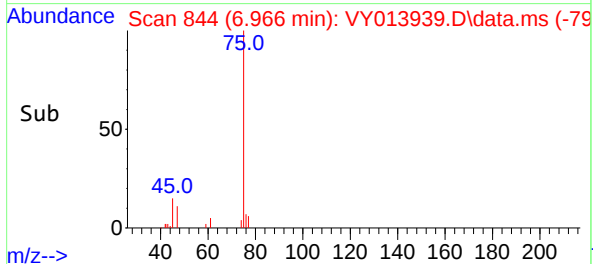
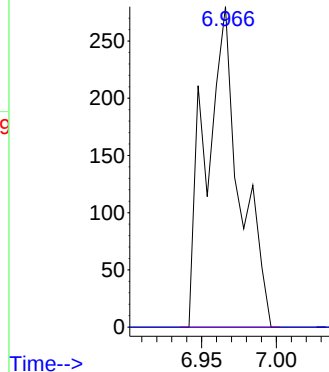
Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#



Abundance



#29

Tetrahydrofuran

Concen: 1.990 ug/l

RT: 7.612 min Scan# 950

Delta R.T. 0.256 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

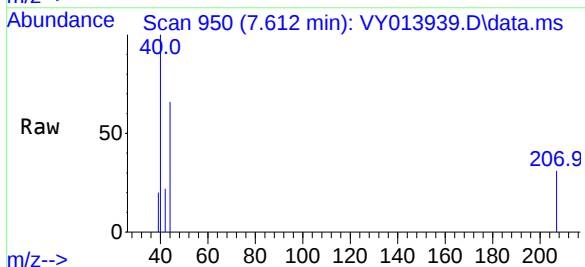
Tgt Ion: 42 Resp: 25

Ion Ratio Lower Upper

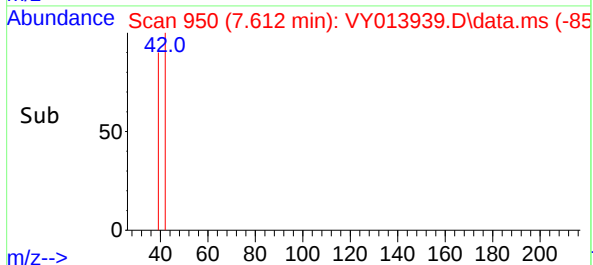
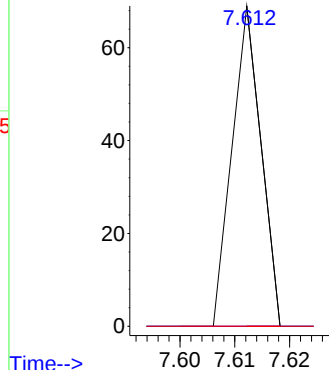
42 100

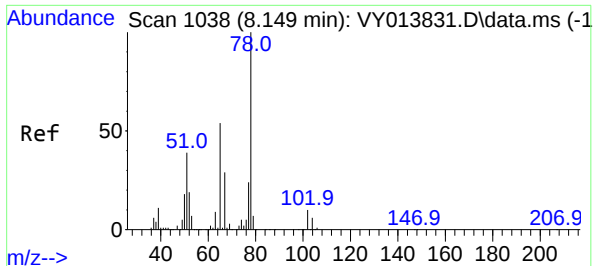
72 0.0 31.7 47.5#

71 0.0 30.6 45.8#



Abundance





#33

1,2-Dichloroethane-d4

Concen: 90.191 ug/l

RT: 8.136 min Scan# 1103

Delta R.T. -0.012 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

Instrument :

MSVOA_Y

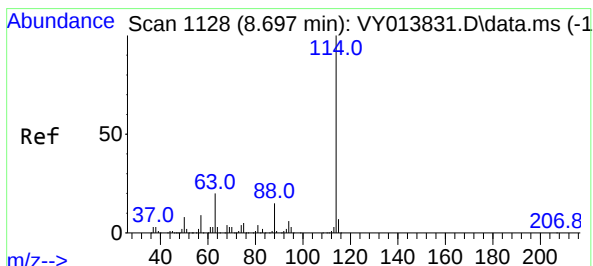
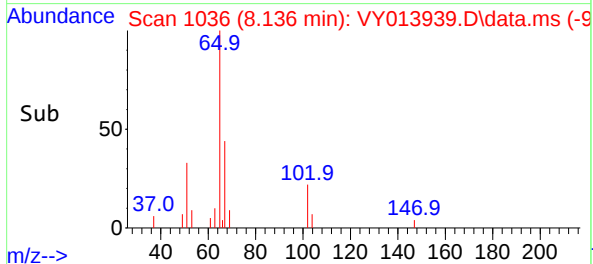
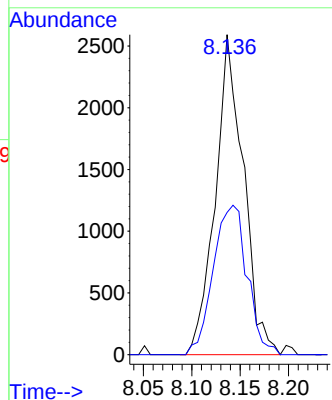
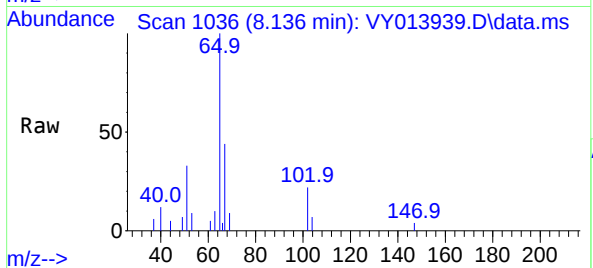
ClientSampleId :

Tgt Ion: 65 Resp: 5239

Ion Ratio Lower Upper

65 100

67 56.3 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.012 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

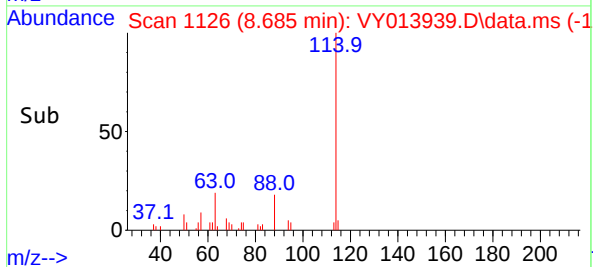
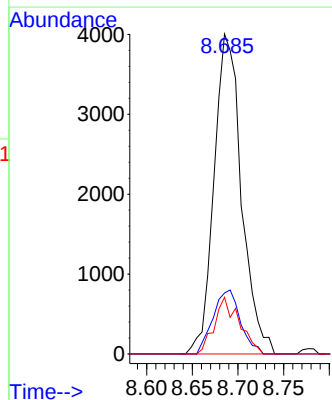
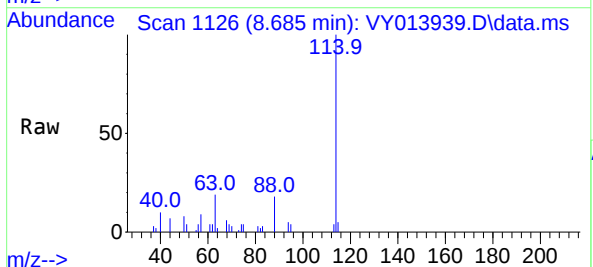
Tgt Ion: 114 Resp: 8360

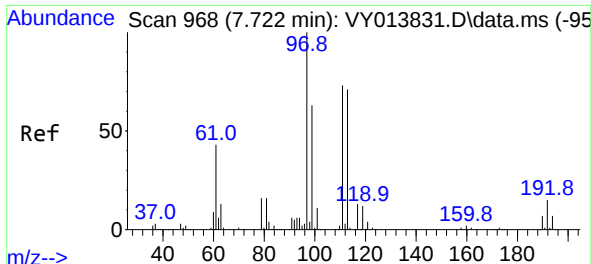
Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.2

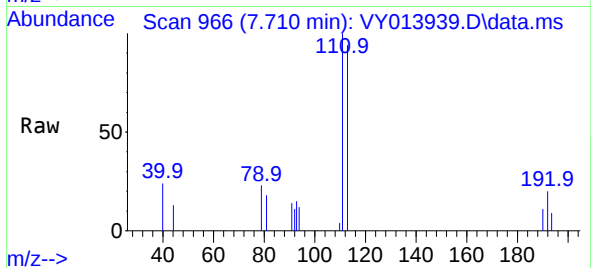
88 17.7 0.0 30.0





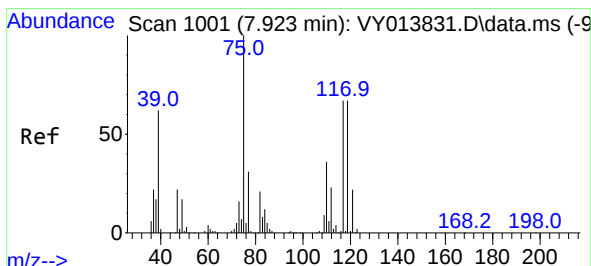
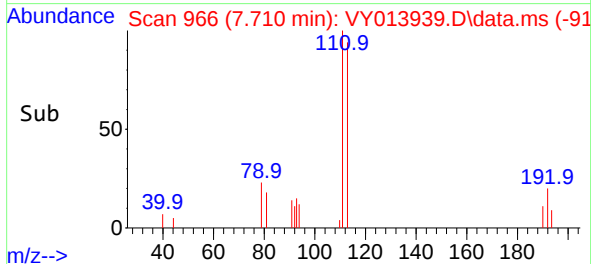
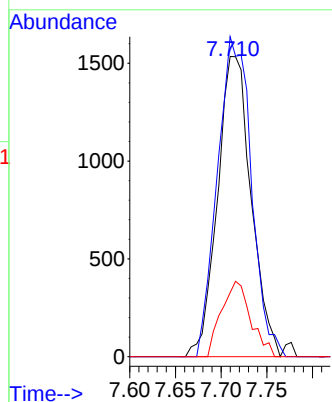
#35
Dibromofluoromethane
Concen: 72.755 ug/l
RT: 7.710 min Scan# 910
Delta R.T. -0.012 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:113 Resp: 3928

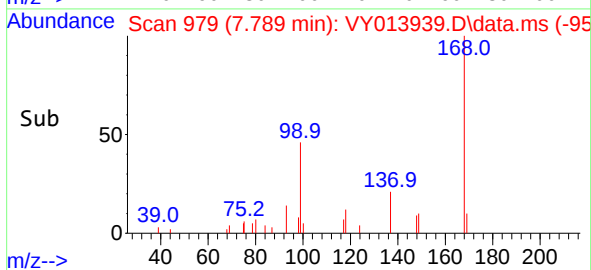
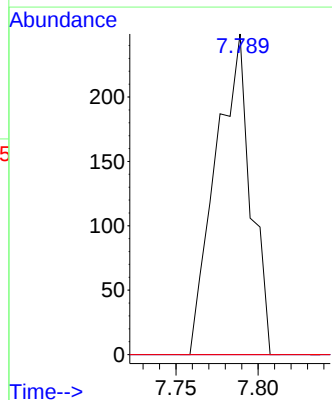
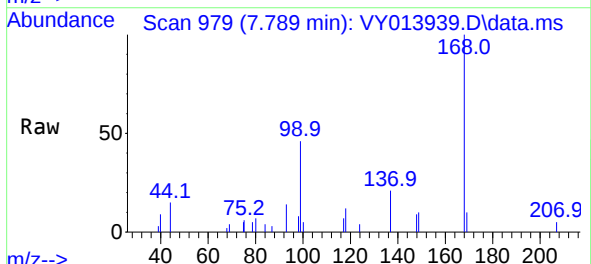
Ion	Ratio	Lower	Upper
113	100		
111	107.4	80.4	120.6
192	21.9	16.6	25.0

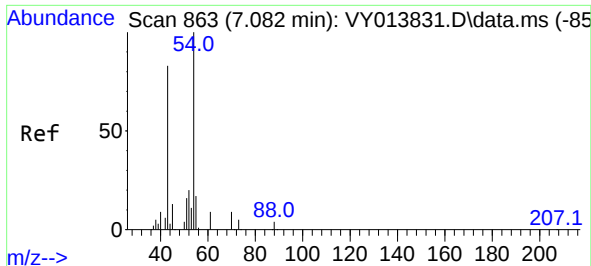


#36
1,1-Dichloropropene
Concen: 4.475 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Tgt Ion: 75 Resp: 368

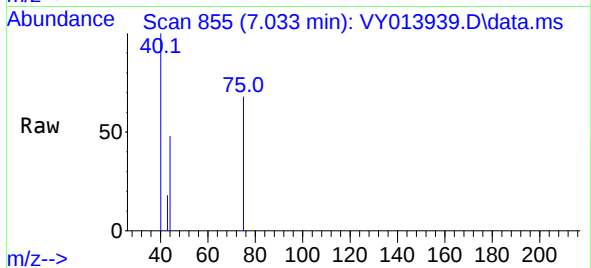
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.5	52.6#
77	0.0	24.4	36.6#



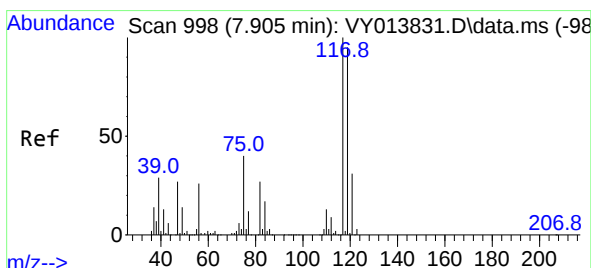
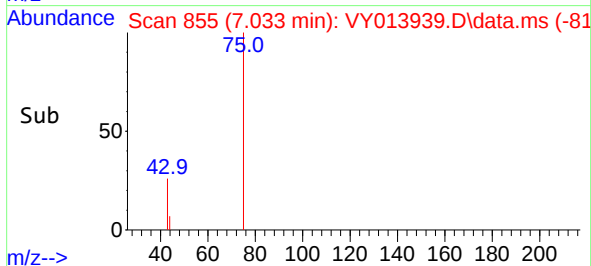
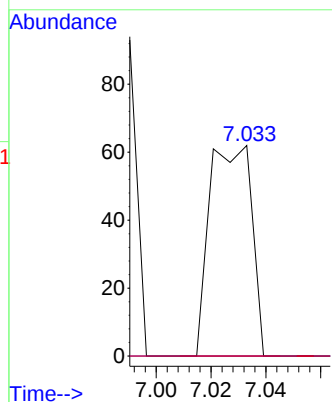


#37
Ethyl Acetate
Concen: 1.316 ug/l
RT: 7.033 min Scan# 81
Delta R.T. -0.049 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Instrument :
MSVOA_Y
ClientSampleId :

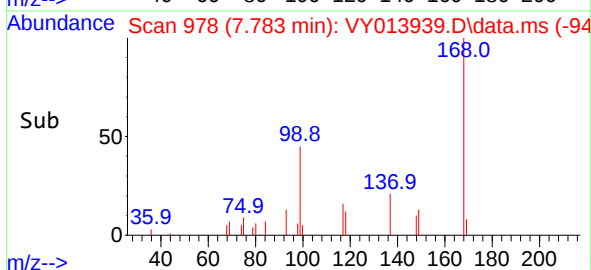
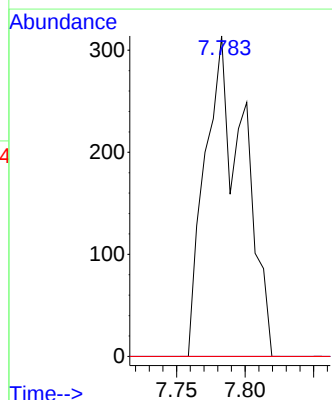
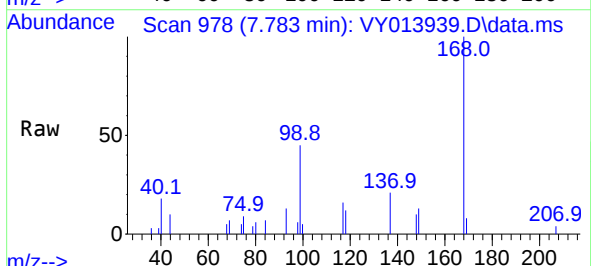


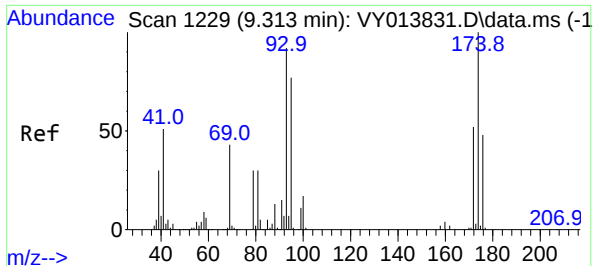
Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 6.619 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.122 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Tgt Ion: 117 Resp: 619
Ion Ratio Lower Upper
117 100
119 0.0 75.6 113.4#
121 0.0 24.8 37.2#





#49

1,4-Dioxane

Concen: 56.477 ug/l

RT: 9.307 min Scan# 11

Delta R.T. -0.006 min

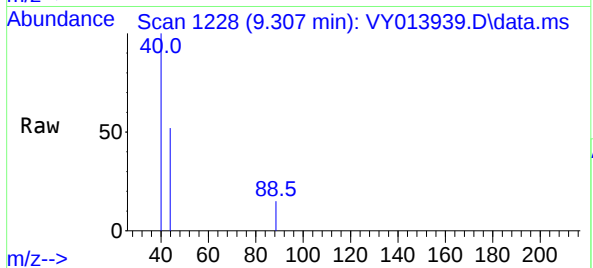
Lab File: VY013939.D

Acq: 31 May 2023 16:35

Instrument :

MSVOA_Y

ClientSampleId :



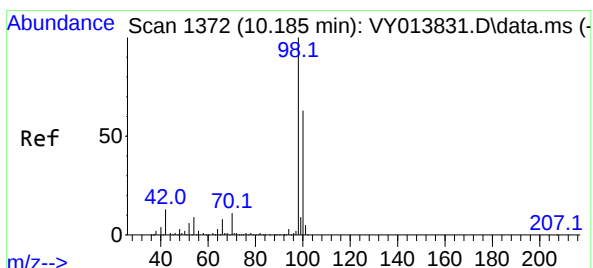
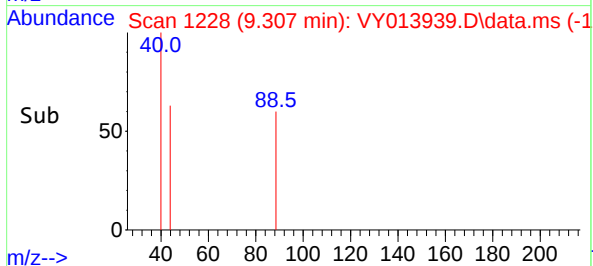
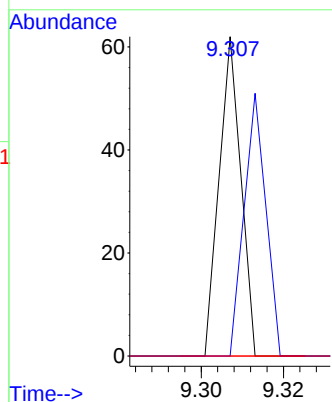
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 82.6 0.0 0.0#

58 0.0 59.0 88.6#



#50

Toluene-d8

Concen: 50.995 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.006 min

Lab File: VY013939.D

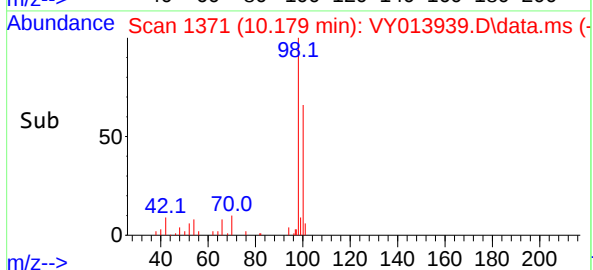
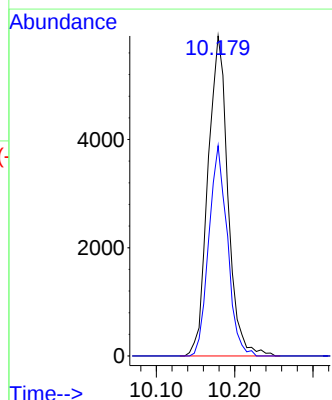
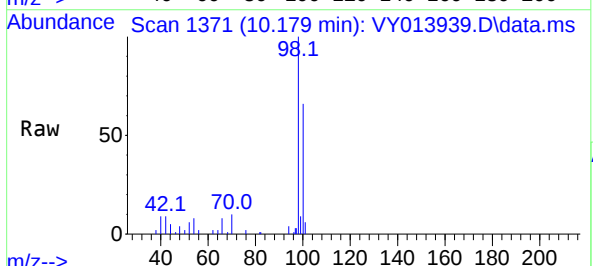
Acq: 31 May 2023 16:35

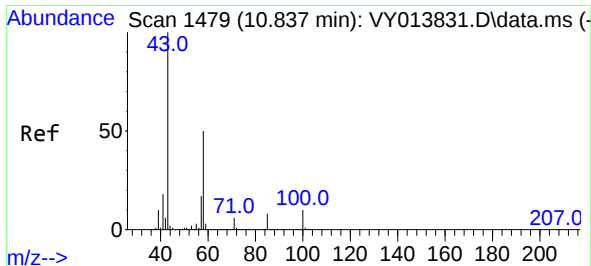
Tgt Ion: 98 Resp: 10464

Ion Ratio Lower Upper

98 100

100 61.1 50.8 76.2





#59

2-Hexanone

Concen: 1.299 ug/l

RT: 10.874 min Scan# 1479

Delta R.T. 0.037 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

Instrument :

MSVOA_Y

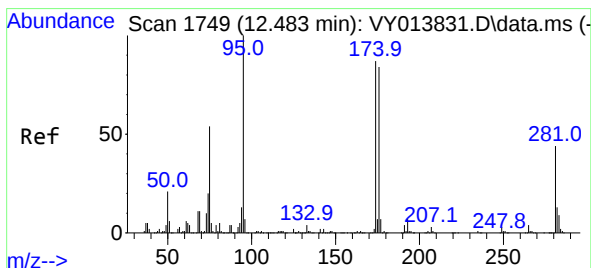
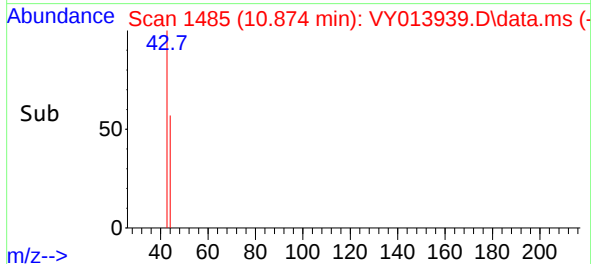
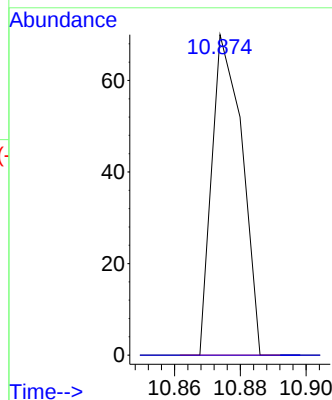
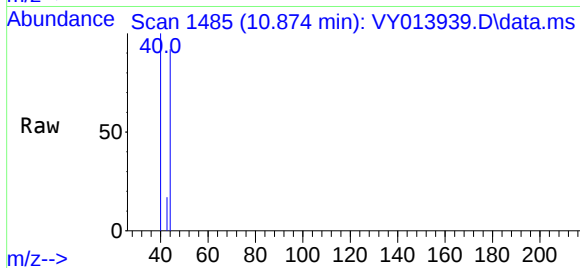
ClientSampleId :

Tgt Ion: 43 Resp: 45

Ion Ratio Lower Upper

43 100

58 0.0 24.8 74.3#



#62

4-Bromofluorobenzene

Concen: 38.559 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.006 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

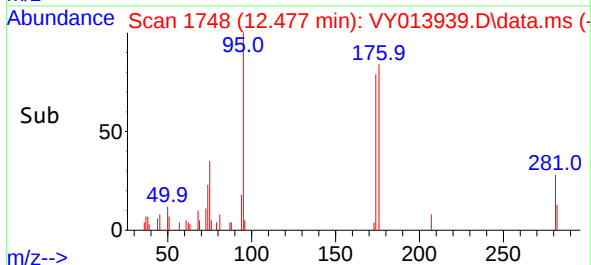
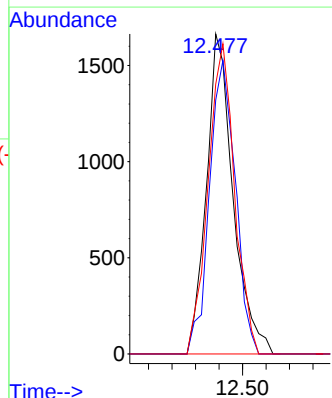
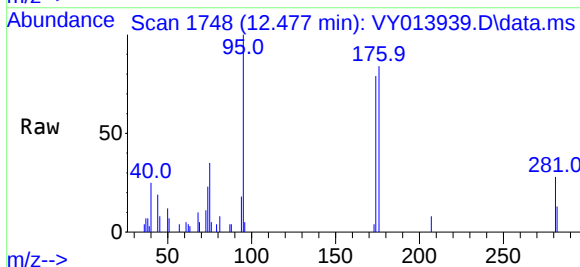
Tgt Ion: 95 Resp: 2630

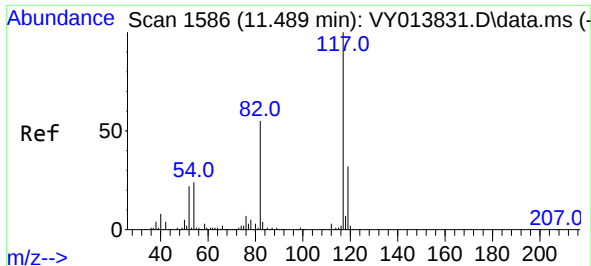
Ion Ratio Lower Upper

95 100

174 88.8 0.0 176.0

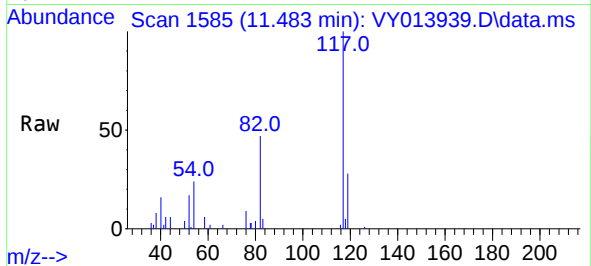
176 96.3 0.0 170.2



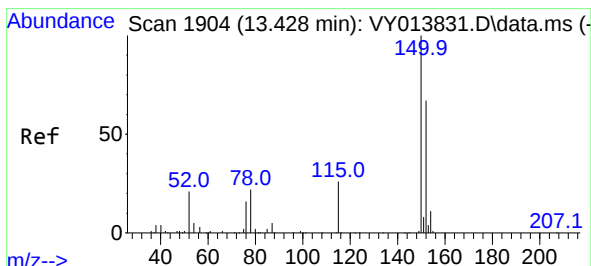
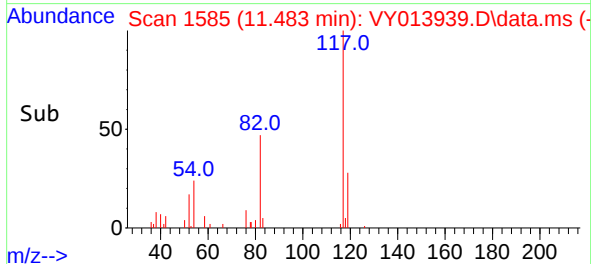
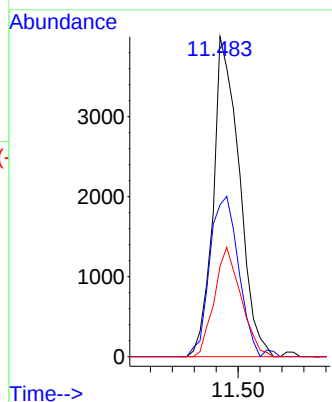


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Instrument :
MSVOA_Y
ClientSampleId :

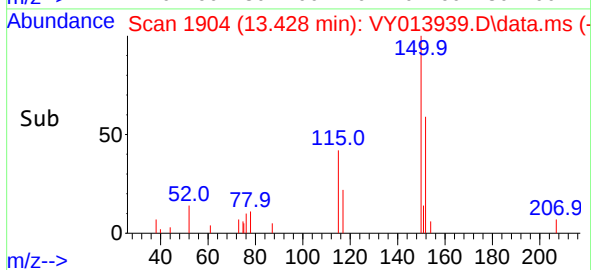
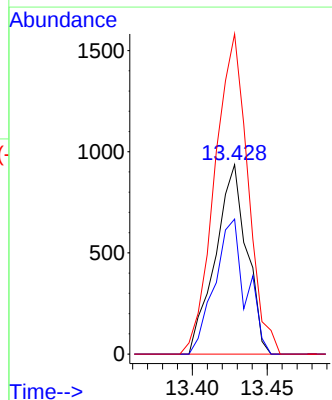
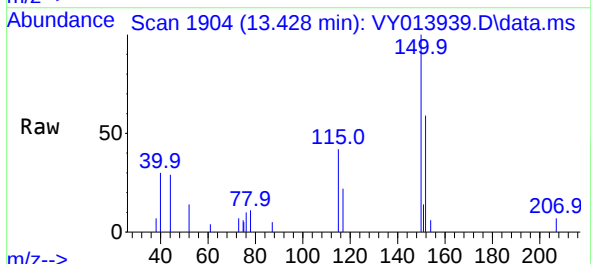


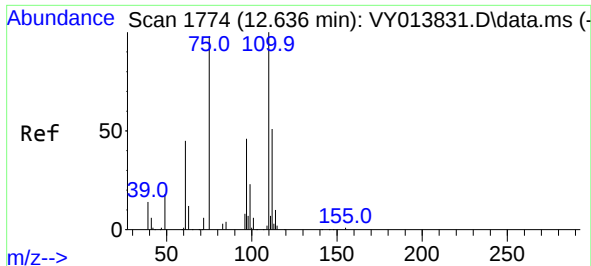
Tgt Ion:117 Resp: 6592
Ion Ratio Lower Upper
117 100
82 47.4 44.2 66.4
119 28.3 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Tgt Ion:152 Resp: 1369
Ion Ratio Lower Upper
152 100
115 70.9 28.8 86.5
150 178.2 0.0 353.4

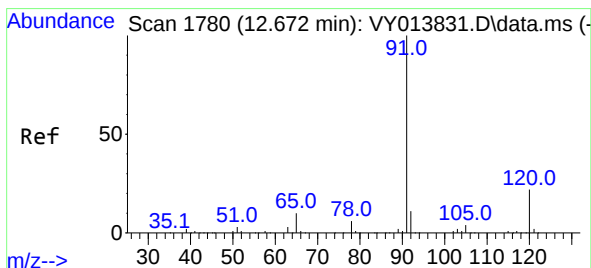
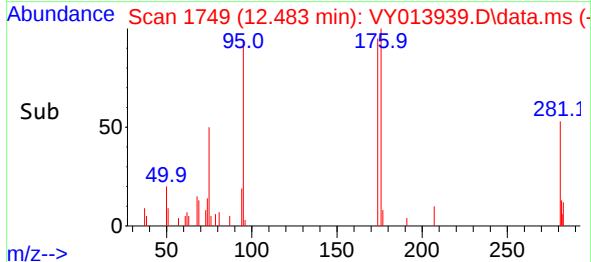
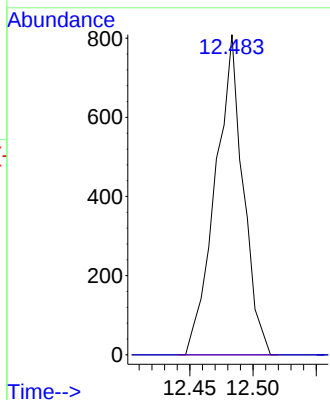
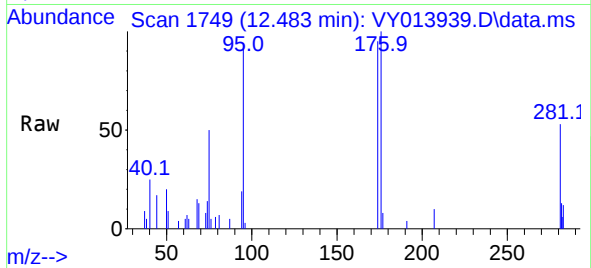




#76
1,2,3-Trichloropropane
Concen: 76.693 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

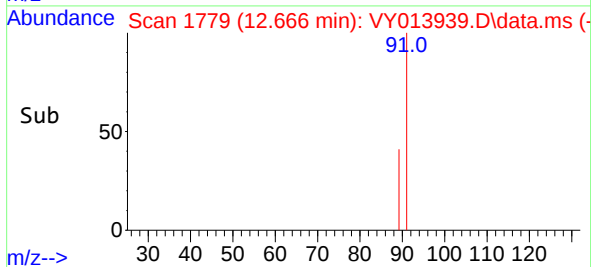
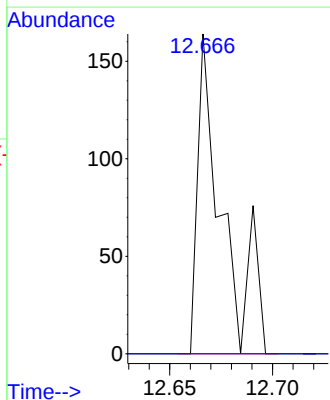
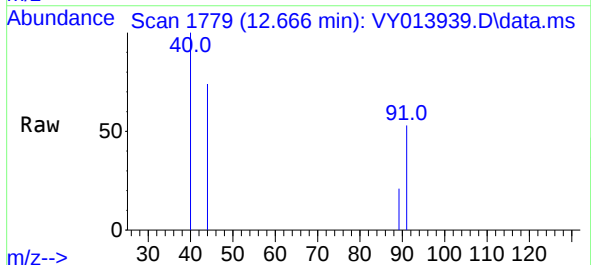
Instrument :
MSVOA_Y
ClientSampleId :

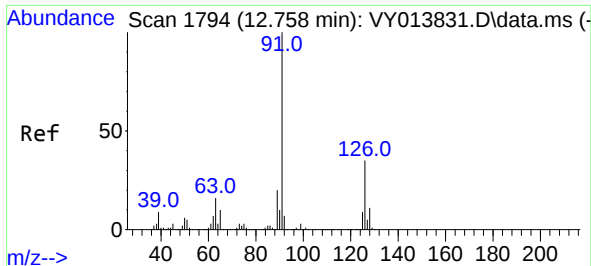
Tgt Ion: 75 Resp: 1238
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#78
n-propylbenzene
Concen: 1.112 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. -0.006 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

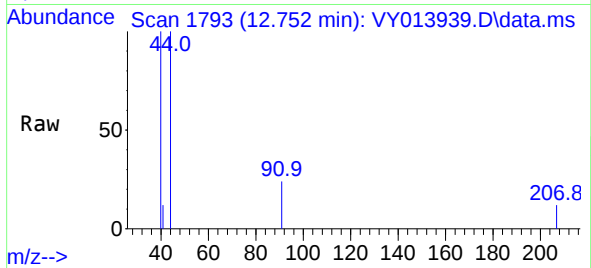
Tgt Ion: 91 Resp: 140
Ion Ratio Lower Upper
91 100
120 0.0 11.3 33.9#



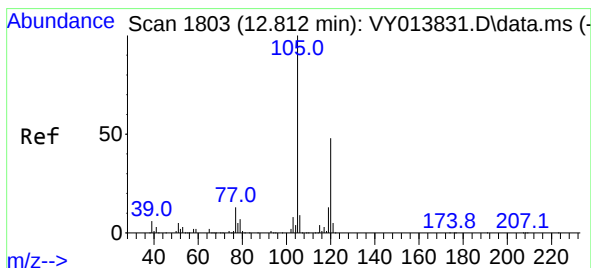
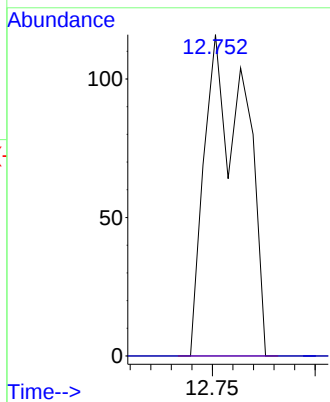
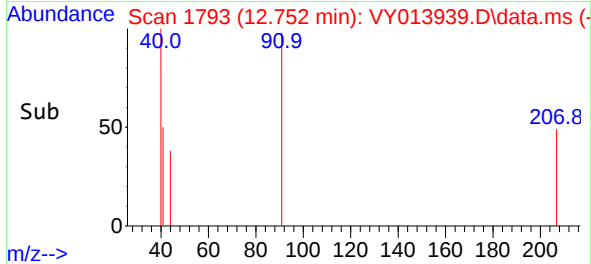


#79
2-Chlorotoluene
Concen: 2.247 ug/l
RT: 12.752 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Instrument :
MSVOA_Y
ClientSampleId :

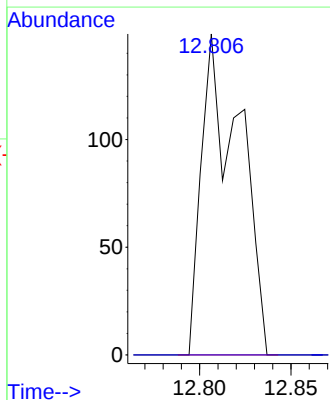
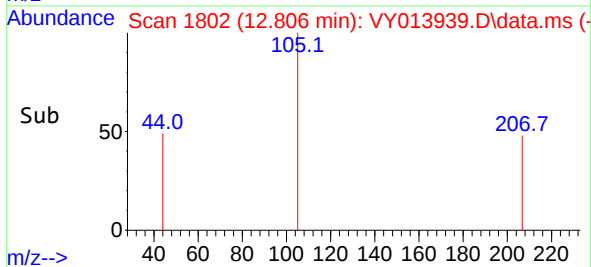
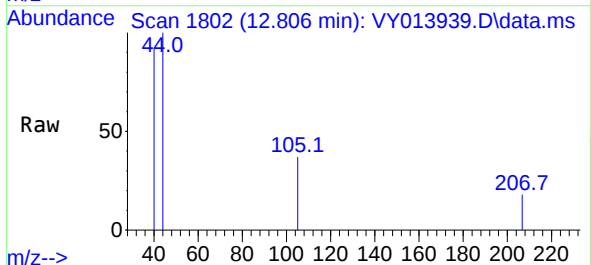


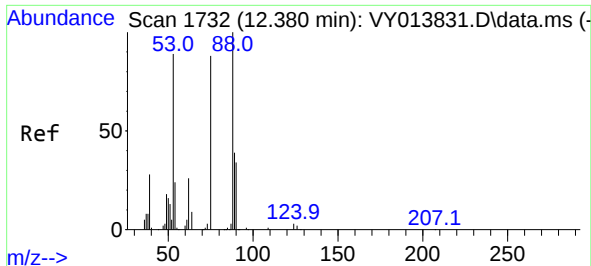
Tgt Ion: 91 Resp: 158
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.4#



#80
1,3,5-Trimethylbenzene
Concen: 2.568 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

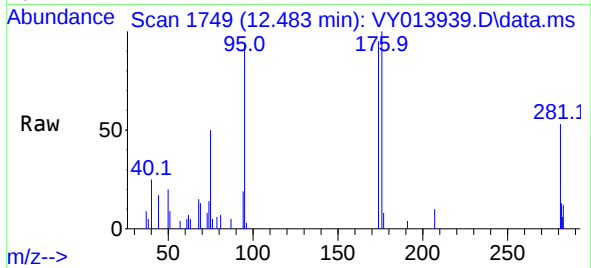
Tgt Ion: 105 Resp: 216
Ion Ratio Lower Upper
105 100
120 0.0 23.9 71.7#



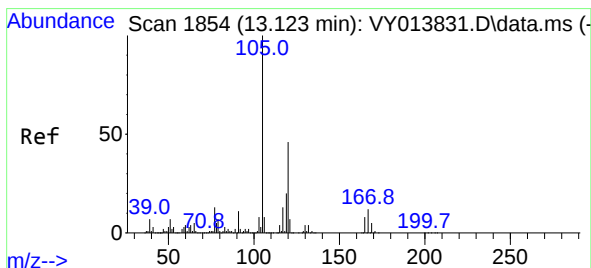
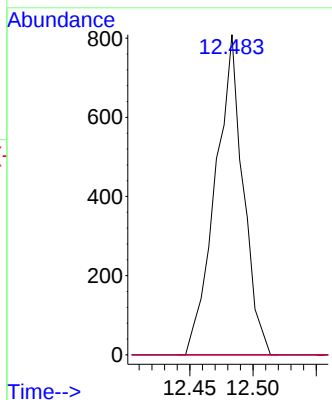
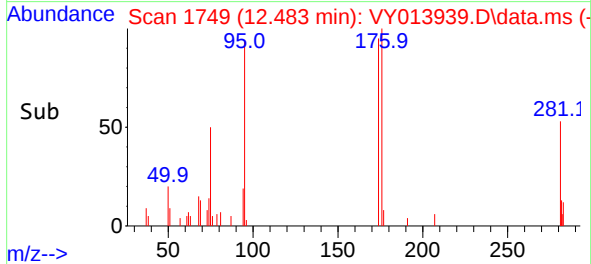


#81
trans-1,4-Dichloro-2-butene
Concen: 166.476 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Instrument :
MSVOA_Y
ClientSampleId :

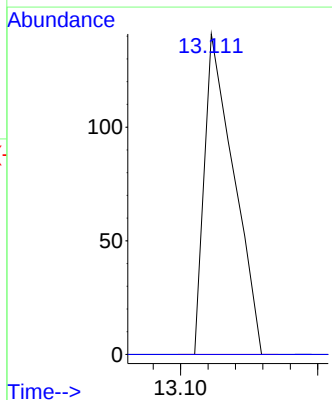
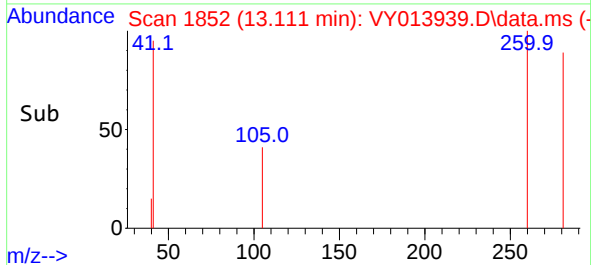
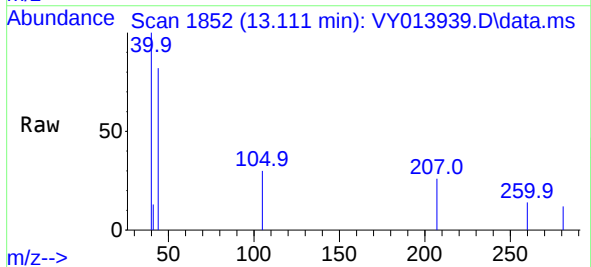


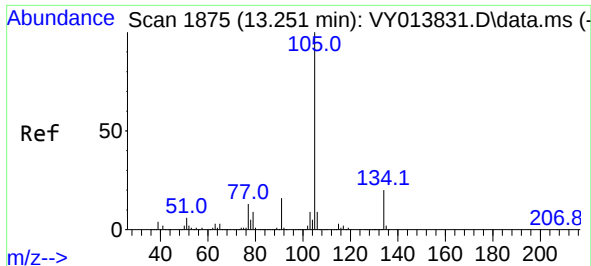
Tgt Ion: 75 Resp: 1238
Ion Ratio Lower Upper
75 100
53 0.0 79.7 119.5#
89 0.0 36.4 54.6#



#84
1,2,4-Trimethylbenzene
Concen: 1.272 ug/l
RT: 13.111 min Scan# 1852
Delta R.T. -0.012 min
Lab File: VY013939.D
Acq: 31 May 2023 16:35

Tgt Ion: 105 Resp: 105
Ion Ratio Lower Upper
105 100
120 0.0 22.4 67.3#

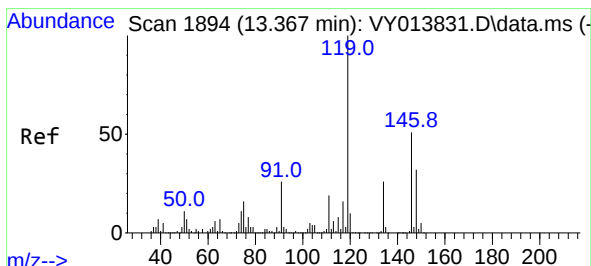
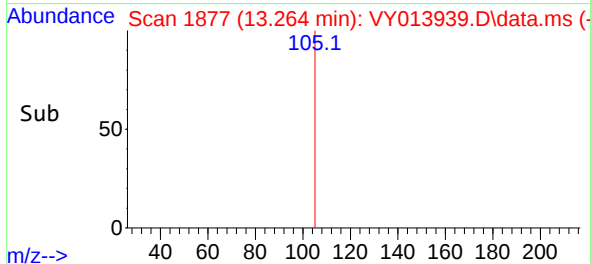
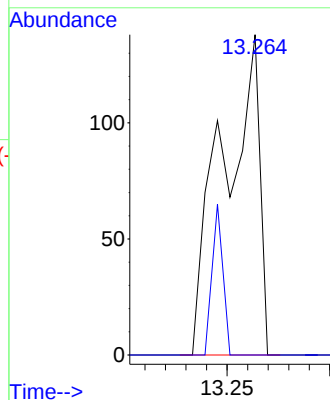
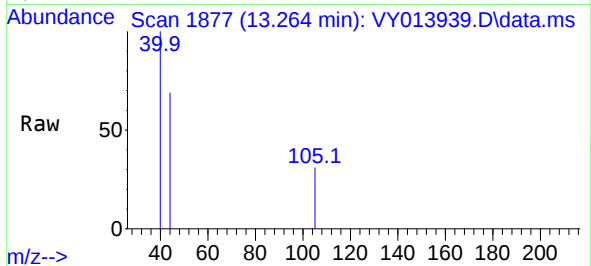




#85
 sec-Butylbenzene
 Concen: 1.562 ug/l
 RT: 13.264 min Scan# 1877
 Delta R.T. 0.012 min
 Lab File: VY013939.D
 Acq: 31 May 2023 16:35

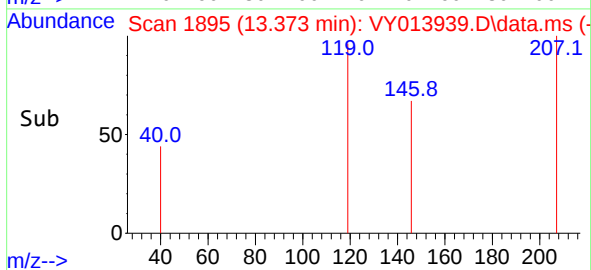
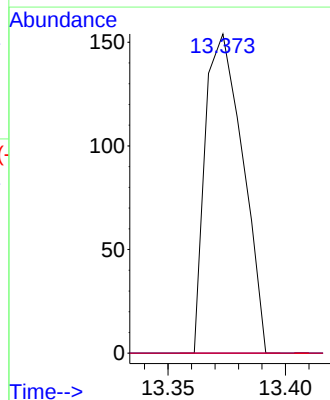
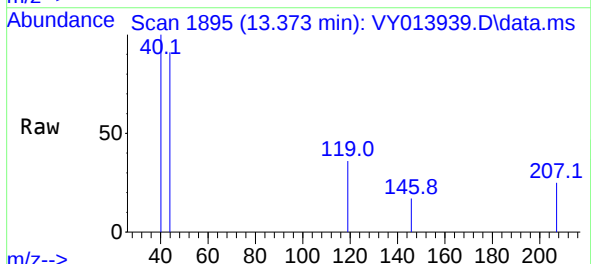
Instrument :
 MSVOA_Y
 ClientSampleId :

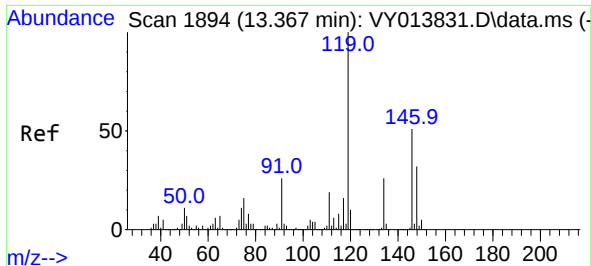
Tgt Ion:105 Resp: 170
 Ion Ratio Lower Upper
 105 100
 134 14.1 10.3 30.8



#86
 p-Isopropyltoluene
 Concen: 1.901 ug/l
 RT: 13.373 min Scan# 1895
 Delta R.T. 0.006 min
 Lab File: VY013939.D
 Acq: 31 May 2023 16:35

Tgt Ion:119 Resp: 171
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.3 39.9#
 91 0.0 12.4 37.4#





#87

1,3-Dichlorobenzene

Concen: 1.450 ug/l

RT: 13.447 min Scan# 1907

Delta R.T. 0.079 min

Lab File: VY013939.D

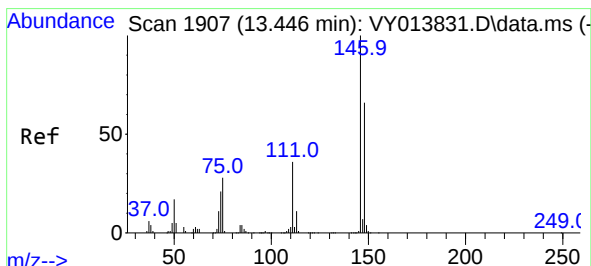
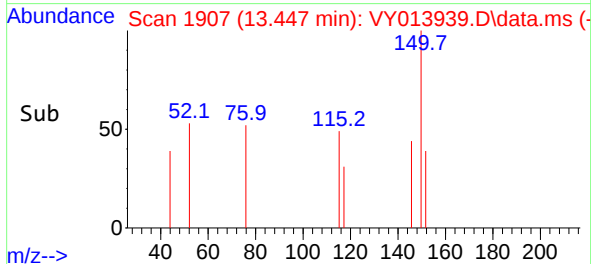
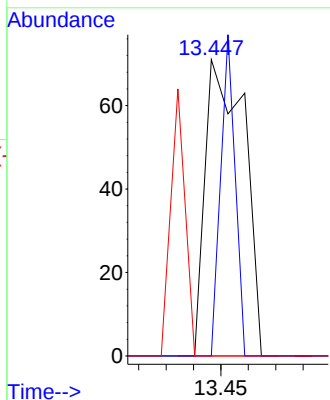
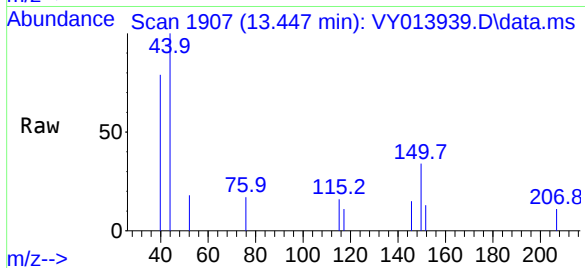
Acq: 31 May 2023 16:35

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:146	Resp:	70
Ion	Ratio	Lower Upper
146	100	
111	40.0	19.1 57.5
148	32.9	31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 1.456 ug/l

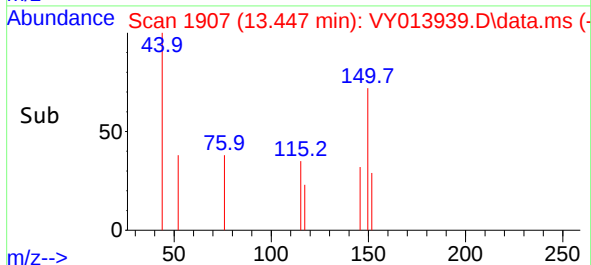
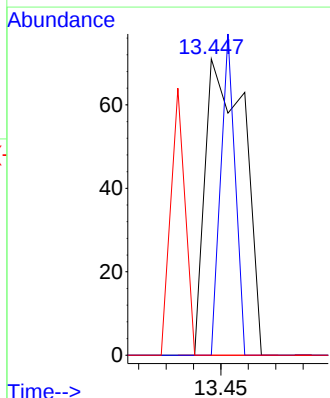
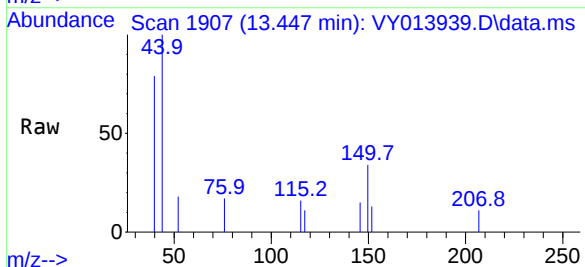
RT: 13.447 min Scan# 1907

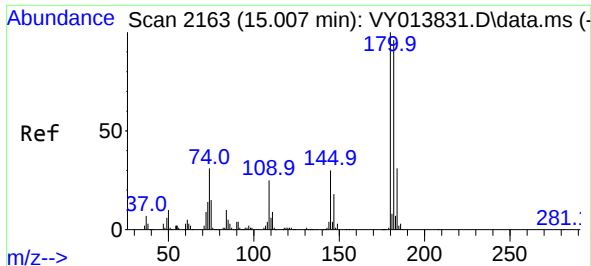
Delta R.T. 0.000 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

Tgt Ion:146	Resp:	70
Ion	Ratio	Lower Upper
146	100	
111	40.0	18.6 55.8
148	32.9	32.4 97.2





#93

1,2,4-Trichlorobenzene

Concen: 4.623 ug/l

RT: 15.007 min Scan# 2163

Delta R.T. 0.000 min

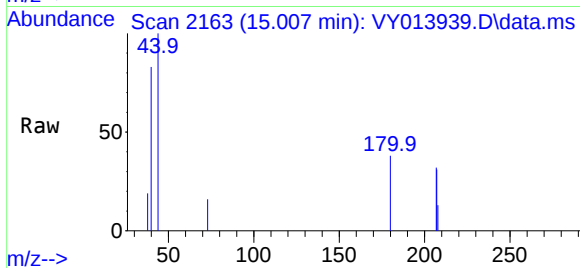
Lab File: VY013939.D

Acq: 31 May 2023 16:35

Instrument :

MSVOA_Y

ClientSampleId :



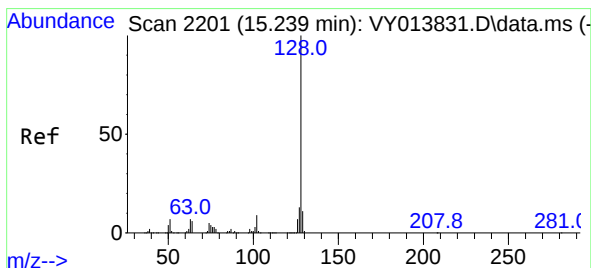
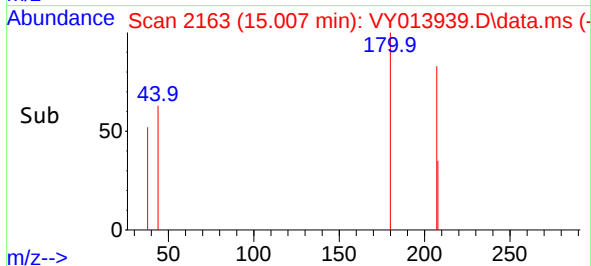
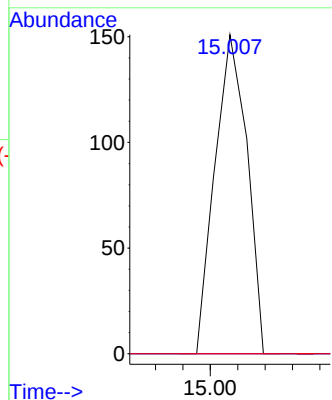
Tgt Ion:180 Resp: 123

Ion Ratio Lower Upper

180 100

182 0.0 48.1 144.3#

145 0.0 14.8 44.4#



#95

Naphthalene

Concen: 10.165 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. -0.000 min

Lab File: VY013939.D

Acq: 31 May 2023 16:35

Tgt Ion:128 Resp: 361

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 9.0 13.4#

