

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY033122\
 Data File : VY008142.D
 Acq On : 31 Mar 2022 16:42
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VIBLK

Quant Time: Apr 01 04:34:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032522S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 26 03:24:51 2022
 Response via : Initial Calibration

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

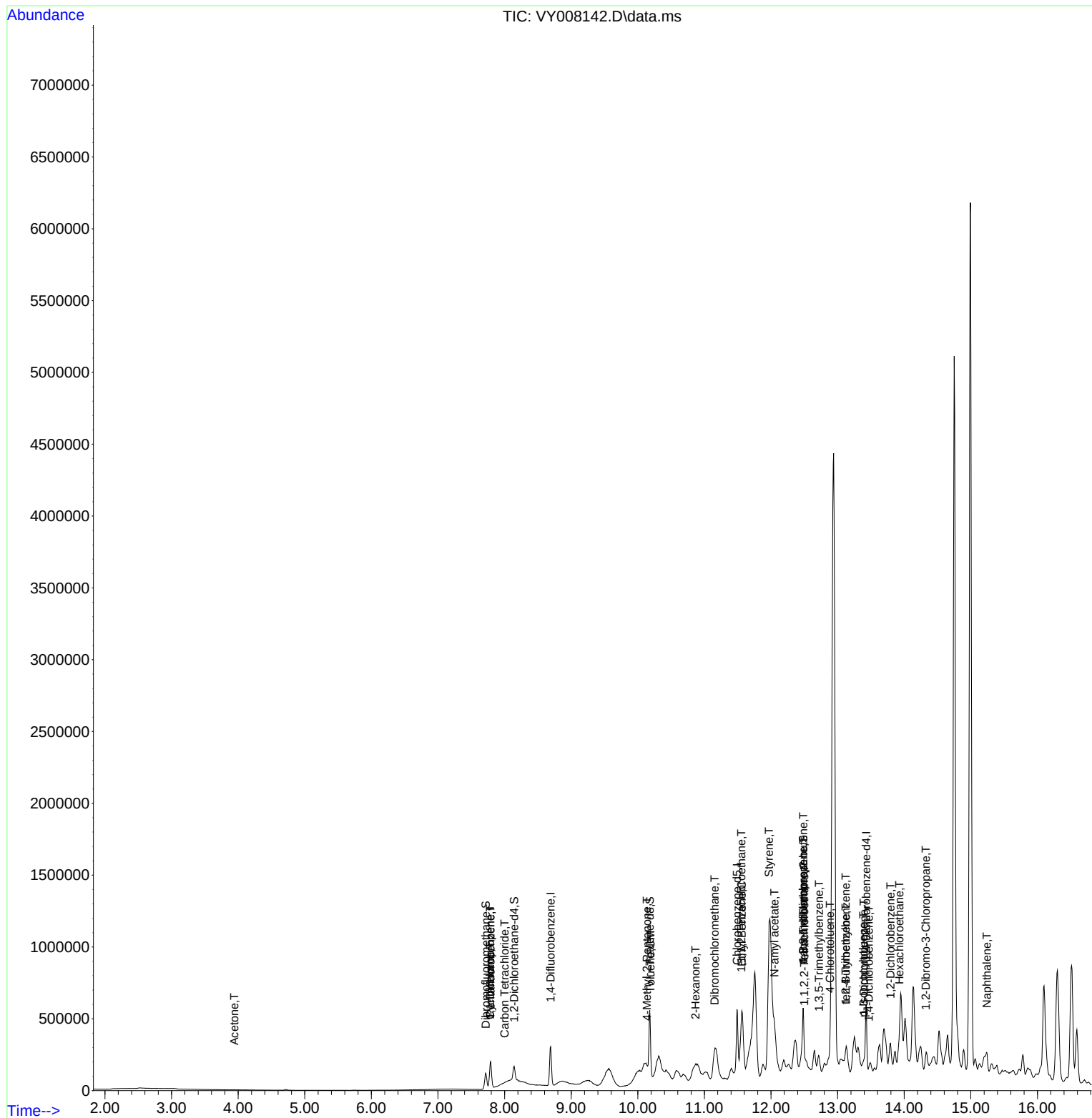
Internal Standards						
1) Pentafluorobenzene	7.789	168	145871	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	256591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	265484	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	118341	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	73681	50.345	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.680%			
35) Dibromofluoromethane	7.715	113	78764	48.960	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.920%			
50) Toluene-d8	10.178	98	331148	54.636	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 109.280%			
62) 4-Bromofluorobenzene	12.483	95	106586	49.845	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 99.700%			
Target Compounds					Qvalue	
16) Acetone	3.942	43	649	1.940	ug/l #	72
18) Methyl Acetate	4.472	43	390	Below Cal	#	56
20) Methylene Chloride	4.716	84	4032	Below Cal	#	72
31) Cyclohexane	7.783	56	2749	1.005	ug/l #	1
36) 1,1-Dichloropropene	7.783	75	10740	4.250	ug/l #	54
38) Carbon Tetrachloride	8.002	117	42478	15.425	ug/l #	14
51) 4-Methyl-2-Pentanone	10.136	43	9605	8.218	ug/l #	40
52) Toluene	10.191	92	12893	2.720	ug/l #	1
59) 2-Hexanone	10.867	43	15439	18.877	ug/l #	28
60) Dibromochloromethane	11.154	129	16660	8.856	ug/l	72
66) 1,1,1,2-Tetrachloroethane	11.556	131	43711	19.796	ug/l #	1
67) Ethyl Benzene	11.562	91	87111	8.303	ug/l #	48
70) Styrene	11.971	104	38573	5.899	ug/l #	78
74) N-amyl acetate	12.050	43	95105	44.292	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	12.501	83	2383	1.255	ug/l #	26
76) 1,2,3-Trichloropropane	12.483	75	51155	35.461	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.721	105	9657	1.207	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	51155	79.118	ug/l #	8
82) 4-Chlorotoluene	12.885	91	13237	2.018	ug/l #	41
83) tert-Butylbenzene	13.123	119	20402	2.862	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.123	105	19305	2.477	ug/l	88
86) p-Isopropyltoluene	13.385	119	10293	1.175	ug/l #	12
87) 1,3-Dichlorobenzene	13.391	146	12927	2.910	ug/l #	25
88) 1,4-Dichlorobenzene	13.471	146	4985	1.125	ug/l #	25
90) Hexachloroethane	13.928	117	12423	7.321	ug/l #	6
91) 1,2-Dichlorobenzene	13.794	146	22495	5.751	ug/l #	36
92) 1,2-Dibromo-3-Chloropr...	14.324	75	1457	4.808	ug/l #	41
95) Naphthalene	15.239	128	132017	25.493	ug/l #	95

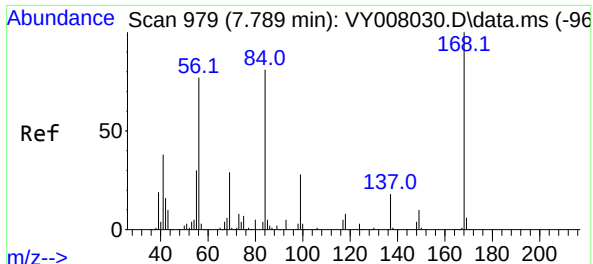
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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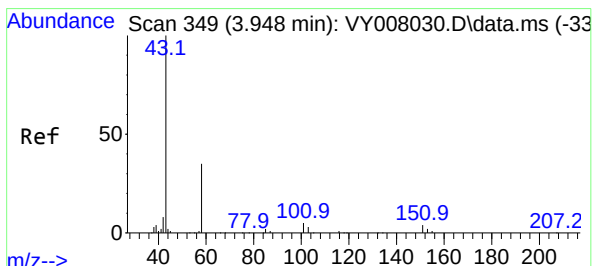
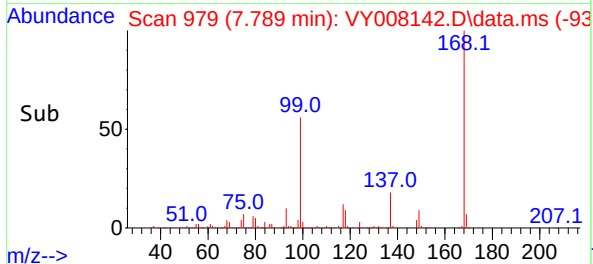
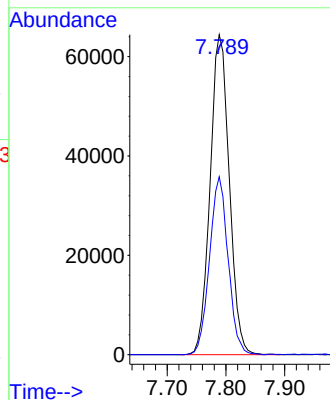
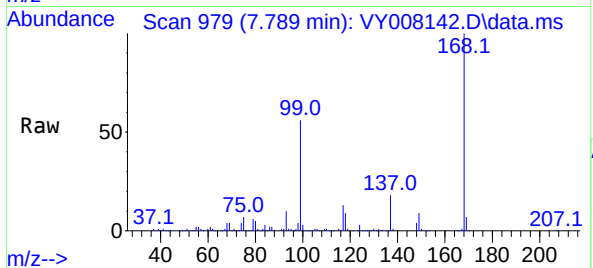




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

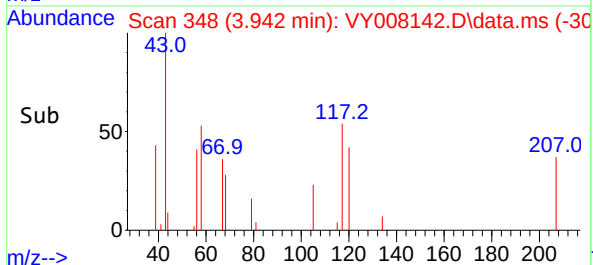
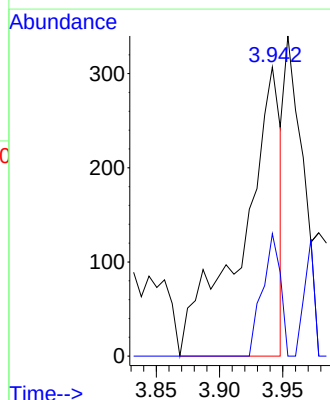
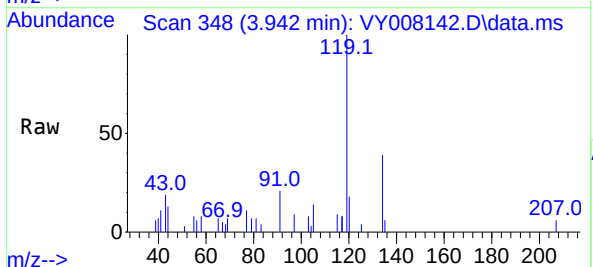
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

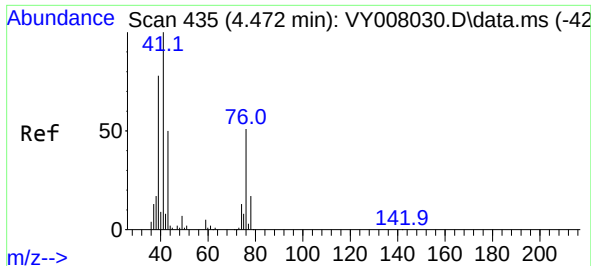
Tgt Ion:168 Resp: 145871
Ion Ratio Lower Upper
168 100
99 55.6 46.9 70.3



#16
Acetone
Concen: 1.940 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.006 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 43 Resp: 649
Ion Ratio Lower Upper
43 100
58 42.3 22.0 33.0#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.472 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

Instrument :

MSVOA_Y

ClientSampleId :

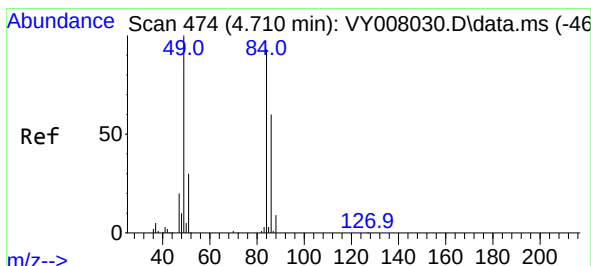
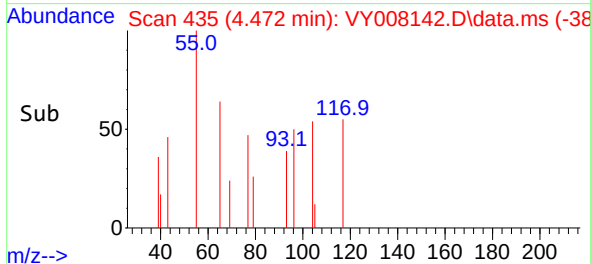
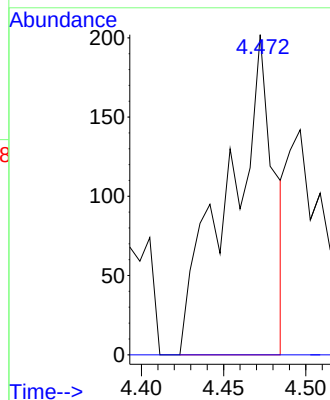
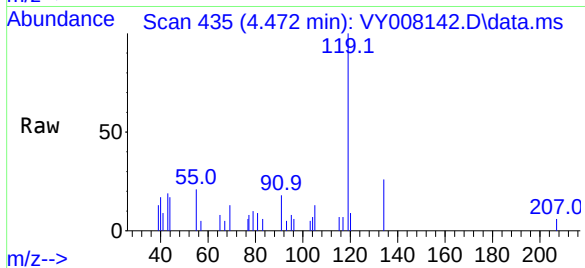
VIBLK

Tgt Ion: 43 Resp: 390

Ion Ratio Lower Upper

43 100

74 0.0 16.6 24.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 475

Delta R.T. 0.006 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

Tgt Ion: 84 Resp: 4032

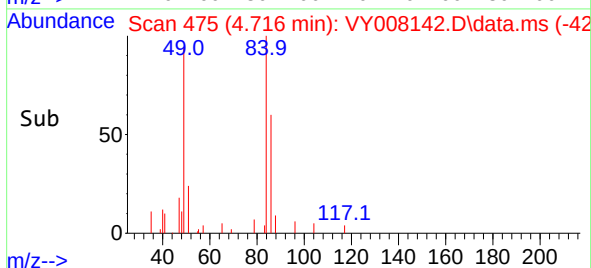
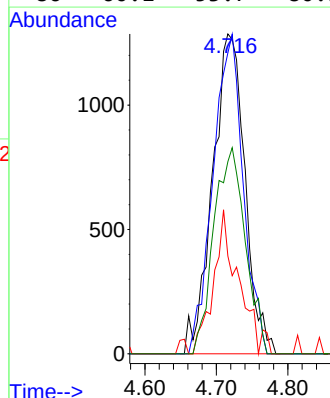
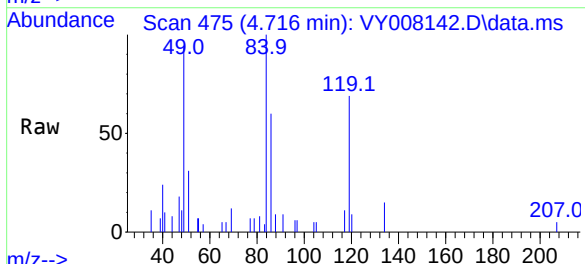
Ion Ratio Lower Upper

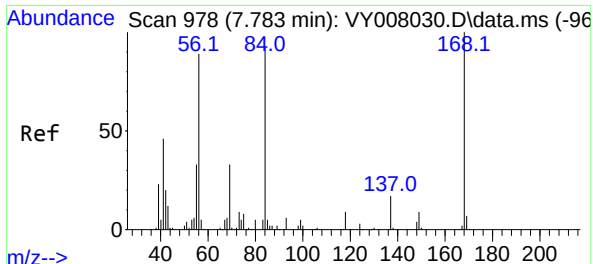
84 100

49 94.1 114.4 171.6#

51 30.6 35.3 52.9#

86 60.1 53.7 80.5

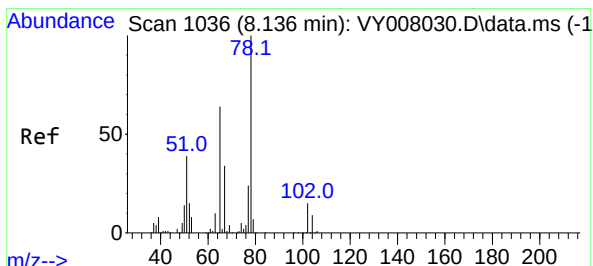
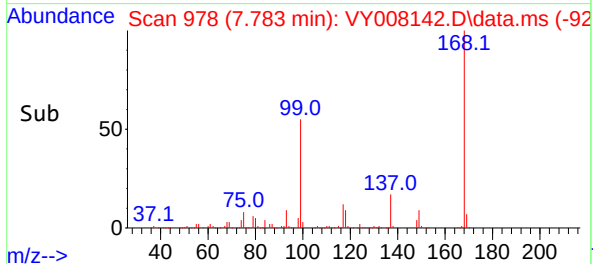
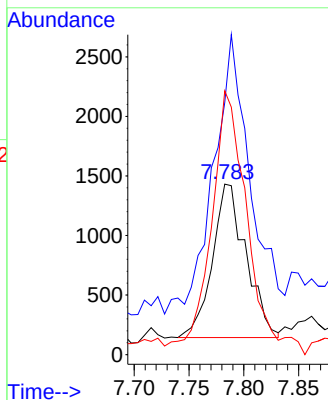
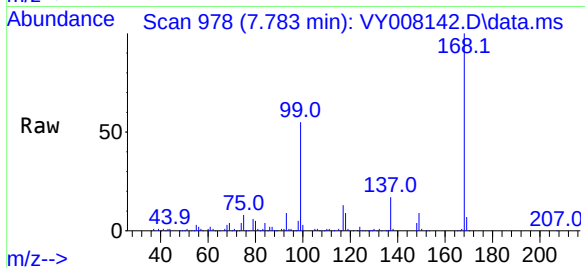




#31
Cyclohexane
Concen: 1.005 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

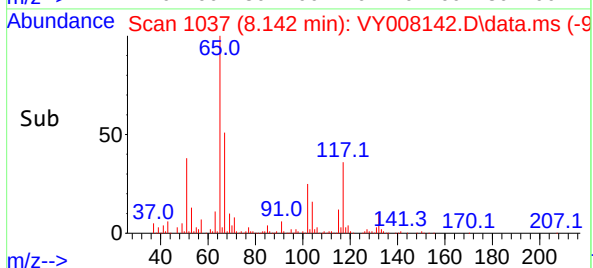
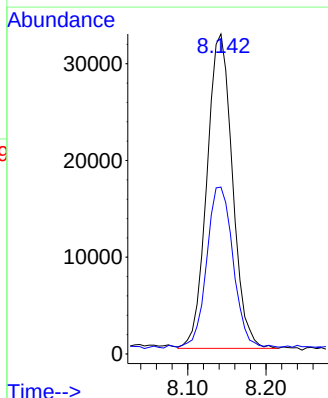
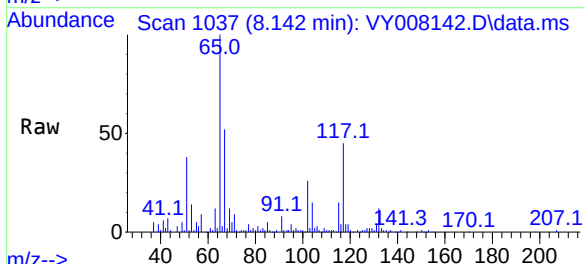
Instrument :
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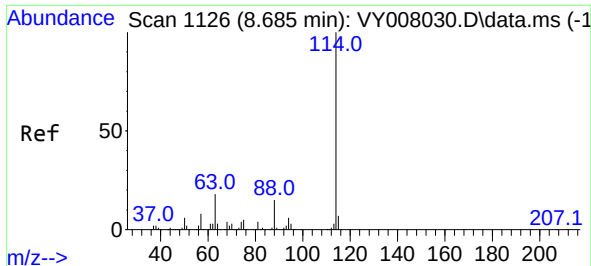
Tgt Ion: 56 Resp: 2749
Ion Ratio Lower Upper
56 100
69 127.6 26.7 40.1#
84 163.3 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 50.345 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 65 Resp: 73681
Ion Ratio Lower Upper
65 100
67 53.3 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

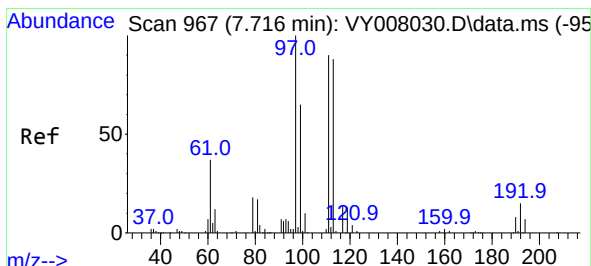
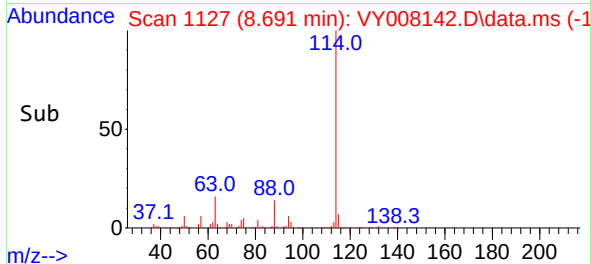
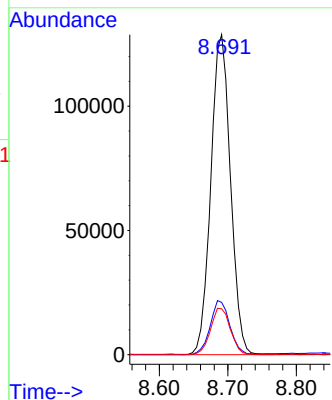
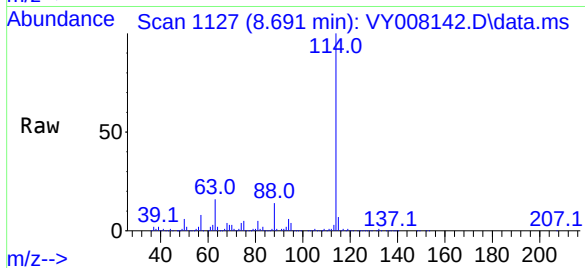
Tgt Ion:114 Resp: 256591

Ion Ratio Lower Upper

114 100

63 16.3 0.0 43.2

88 14.4 0.0 31.8



#35

Dibromofluoromethane

Concen: 48.960 ug/l

RT: 7.715 min Scan# 967

Delta R.T. -0.001 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

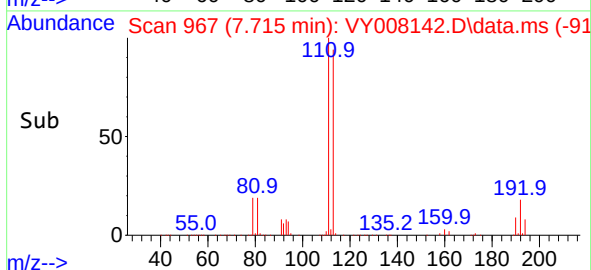
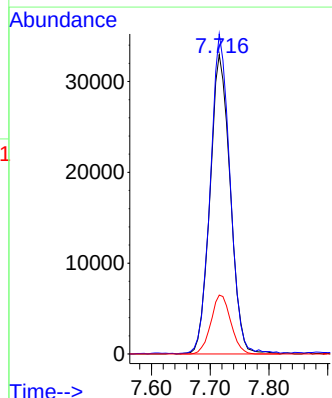
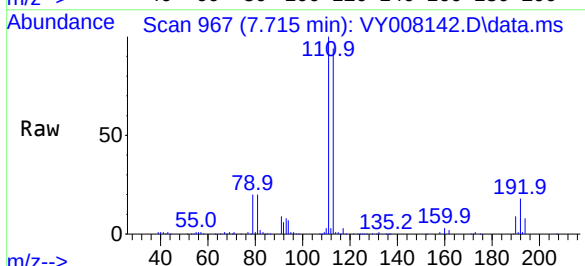
Tgt Ion:113 Resp: 78764

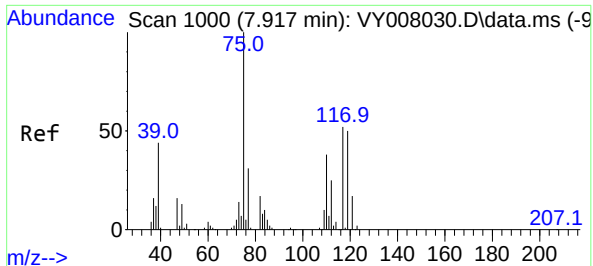
Ion Ratio Lower Upper

113 100

111 104.6 82.6 124.0

192 19.3 17.6 26.4





#36

1,1-Dichloropropene

Concen: 4.250 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

Instrument :

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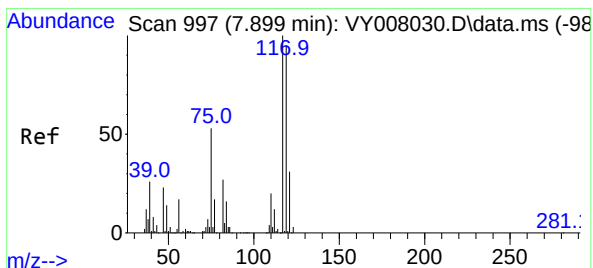
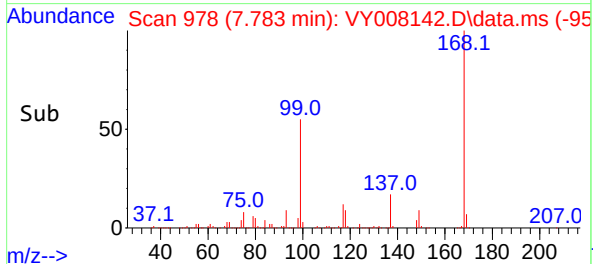
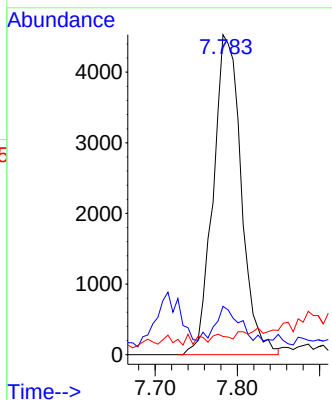
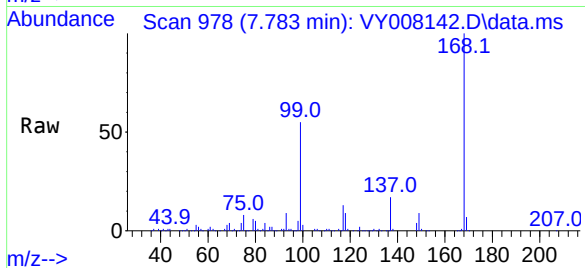
Tgt Ion: 75 Resp: 10740

Ion Ratio Lower Upper

75 100

110 11.0 17.1 51.2#

77 1.4 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 15.425 ug/l

RT: 8.002 min Scan# 1014

Delta R.T. 0.103 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

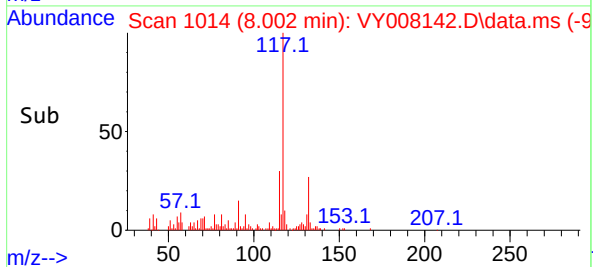
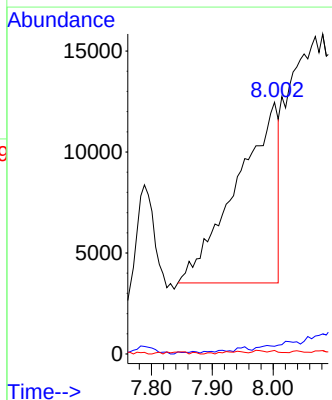
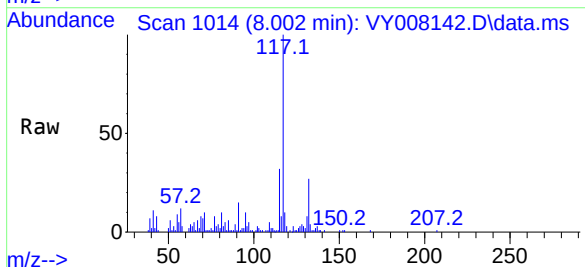
Tgt Ion: 117 Resp: 42478

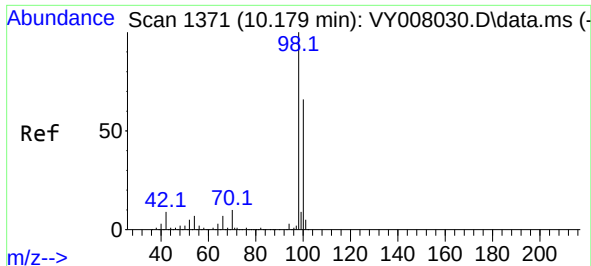
Ion Ratio Lower Upper

117 100

119 3.1 77.9 116.9#

121 1.0 24.8 37.2#

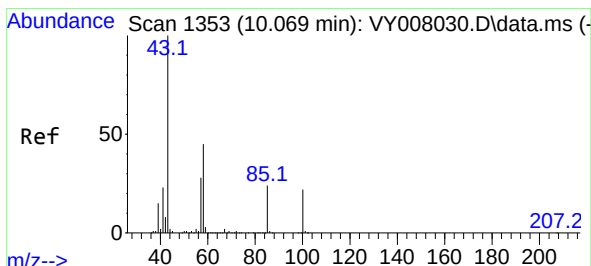
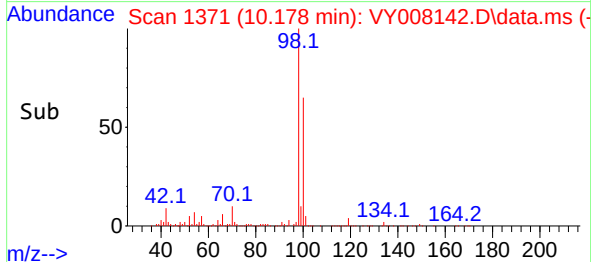
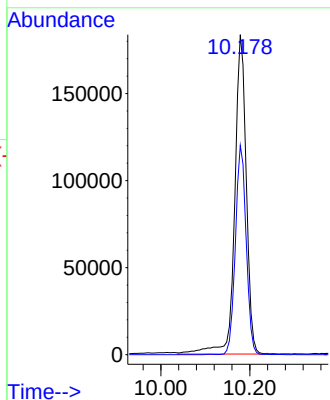
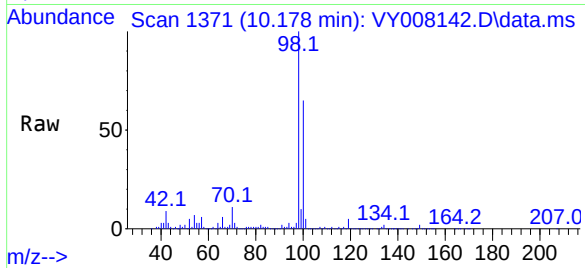




#50
Toluene-d8
Concen: 54.636 ug/l
RT: 10.178 min Scan# 1371
Delta R.T. -0.001 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

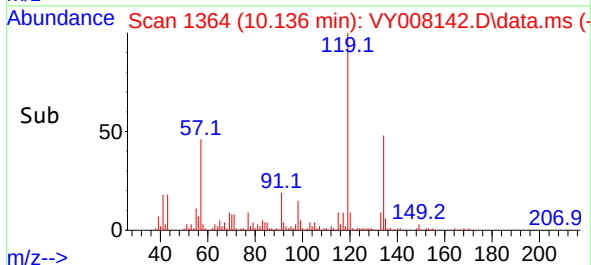
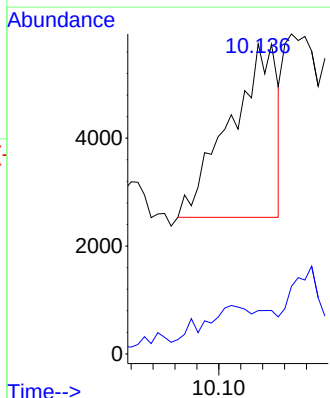
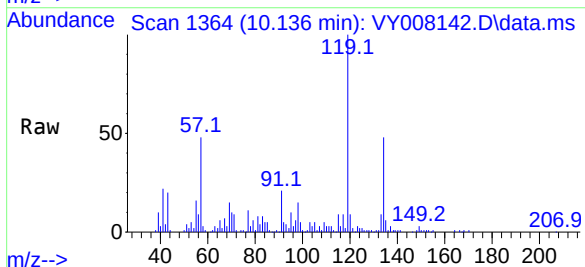
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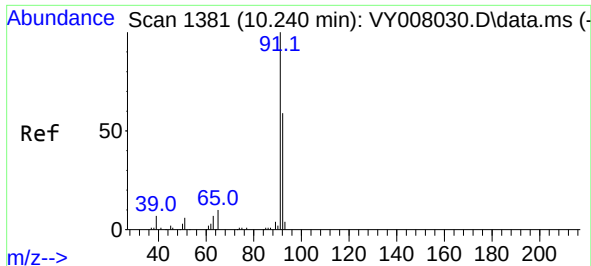
Tgt Ion: 98 Resp: 331148
Ion Ratio Lower Upper
98 100
100 60.6 50.2 75.2



#51
4-Methyl-2-Pentanone
Concen: 8.218 ug/l
RT: 10.136 min Scan# 1364
Delta R.T. 0.067 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 43 Resp: 9605
Ion Ratio Lower Upper
43 100
58 0.0 28.1 42.1#

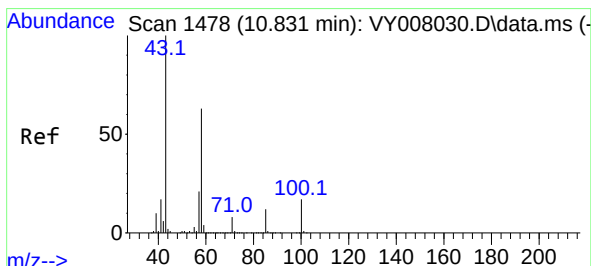
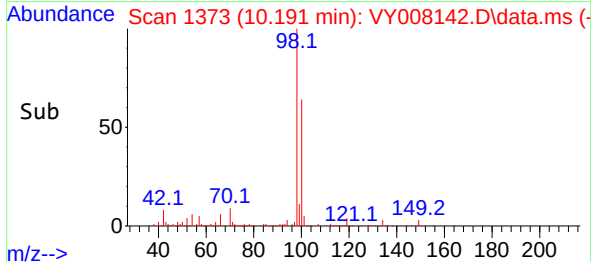
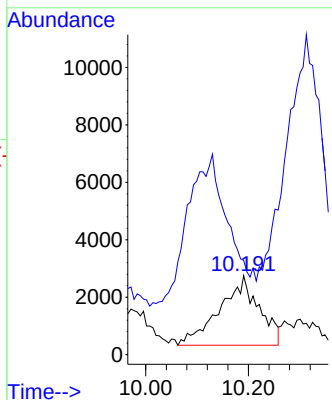
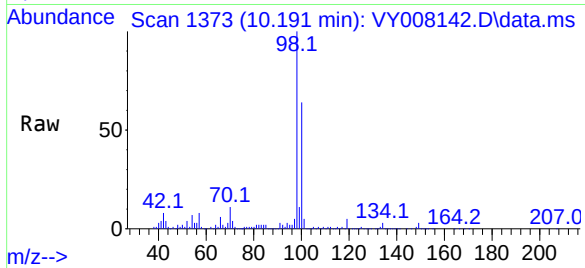




#52
Toluene
Concen: 2.720 ug/l
RT: 10.191 min Scan# 11
Delta R.T. -0.049 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

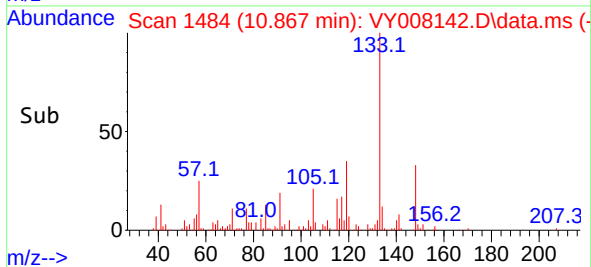
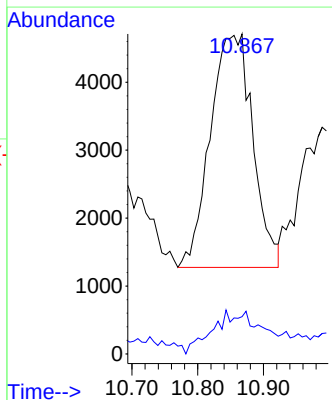
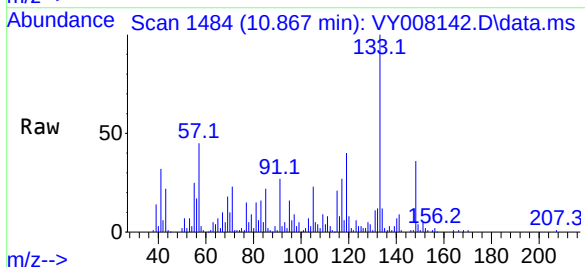
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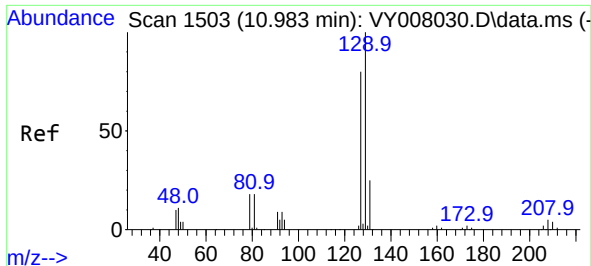
Tgt Ion: 92 Resp: 12893
Ion Ratio Lower Upper
92 100
91 0.0 142.6 213.8#



#59
2-Hexanone
Concen: 18.877 ug/l
RT: 10.867 min Scan# 1484
Delta R.T. 0.036 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 43 Resp: 15439
Ion Ratio Lower Upper
43 100
58 0.0 24.4 73.4#

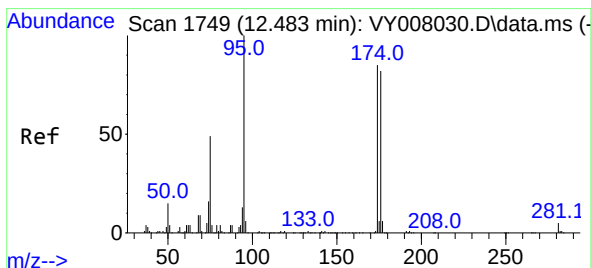
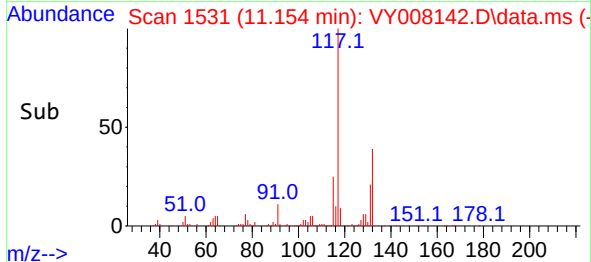
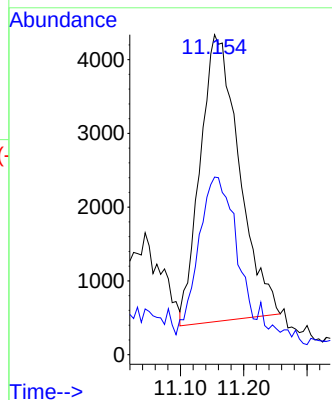
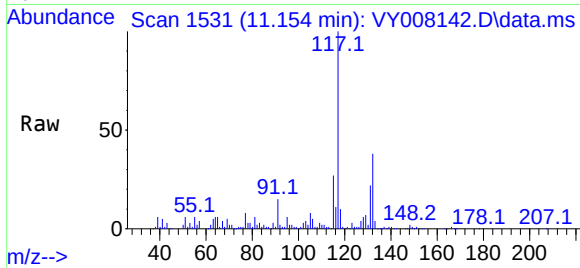




#60
Dibromochloromethane
Concen: 8.856 ug/l
RT: 11.154 min Scan# 1531
Delta R.T. 0.171 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

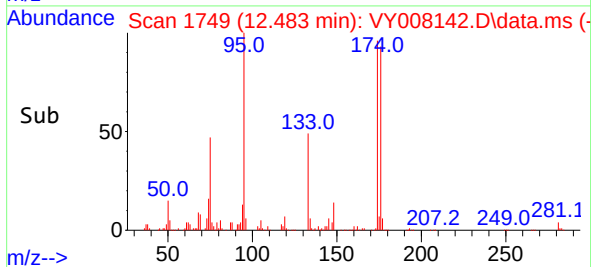
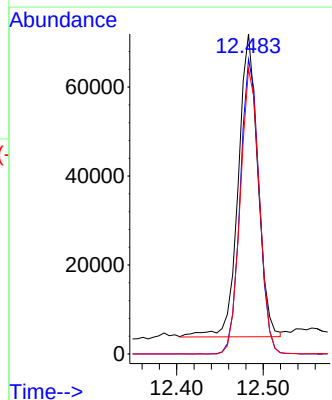
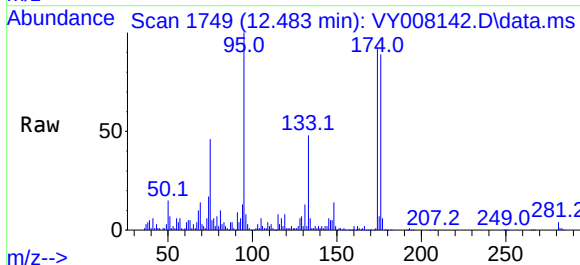
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

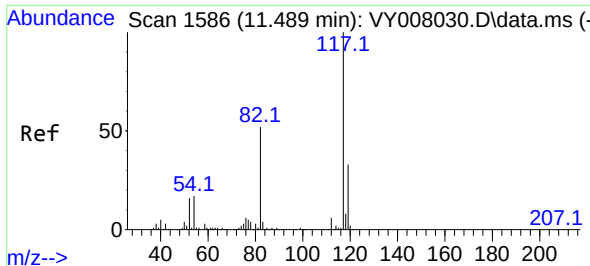
Tgt Ion:129 Resp: 16660
Ion Ratio Lower Upper
129 100
127 52.8 38.7 116.1



#62
4-Bromofluorobenzene
Concen: 49.845 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 95 Resp: 106586
Ion Ratio Lower Upper
95 100
174 94.4 0.0 177.0
176 91.8 0.0 175.8

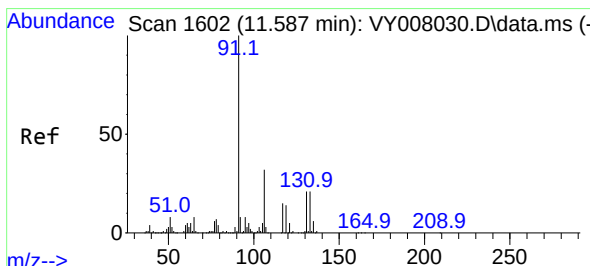
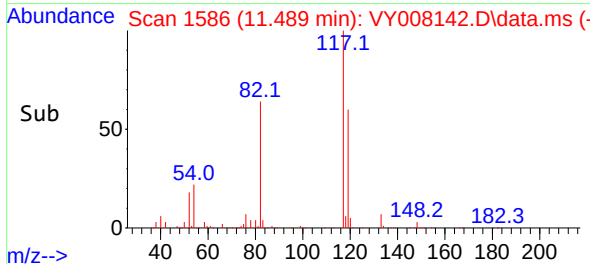
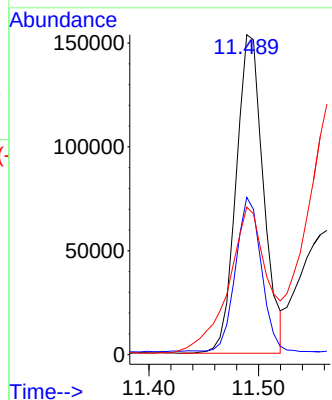
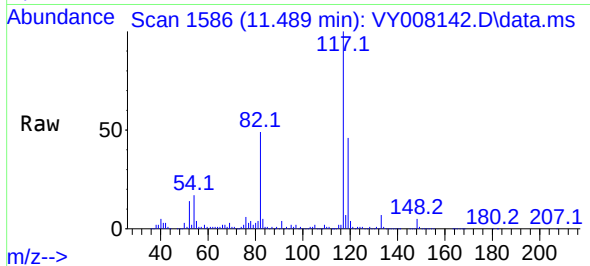




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

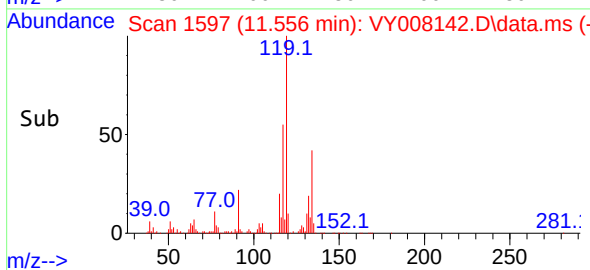
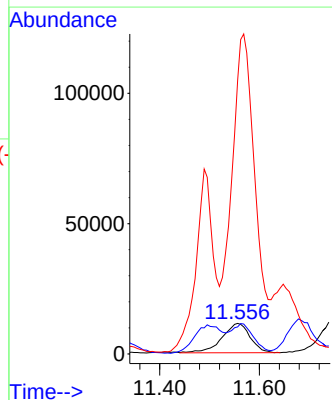
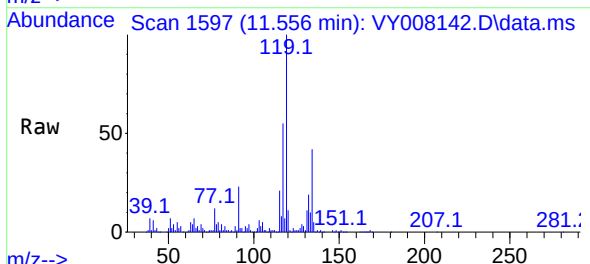
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

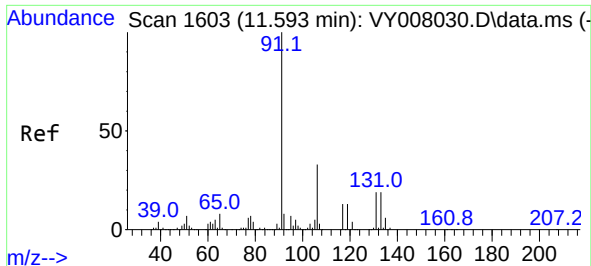
Tgt Ion:117 Resp: 265484
Ion Ratio Lower Upper
117 100
82 48.4 43.0 64.4
119 44.9 25.4 38.0#



#66
1,1,1,2-Tetrachloroethane
Concen: 19.796 ug/l
RT: 11.556 min Scan# 1597
Delta R.T. -0.031 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion:131 Resp: 43711
Ion Ratio Lower Upper
131 100
133 69.9 47.9 143.6
119 682.8 30.8 92.3#





#67

Ethyl Benzene

Concen: 8.303 ug/l

RT: 11.562 min Scan# 11

Delta R.T. -0.031 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

Instrument :

MSVOA_Y

ClientSampleId :

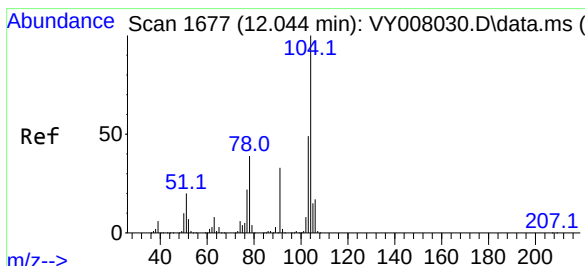
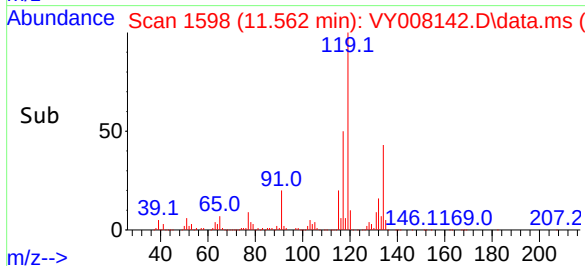
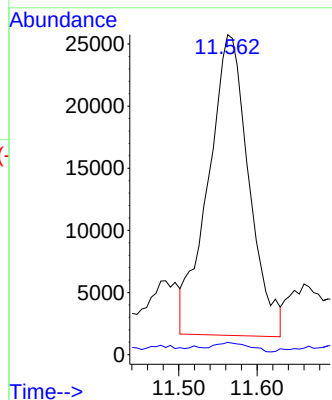
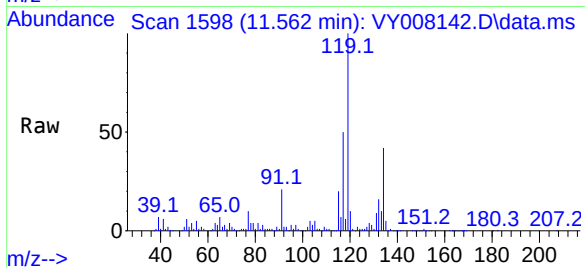
VIBLK

Tgt Ion: 91 Resp: 87111

Ion Ratio Lower Upper

91 100

106 2.4 24.5 36.7#



#70

Styrene

Concen: 5.899 ug/l

RT: 11.971 min Scan# 1665

Delta R.T. -0.073 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

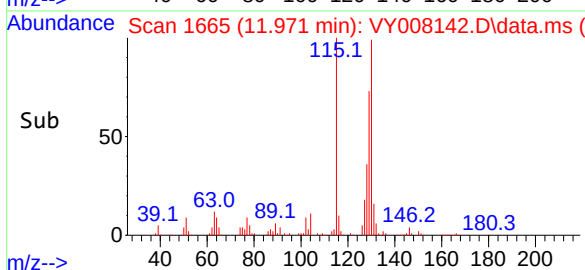
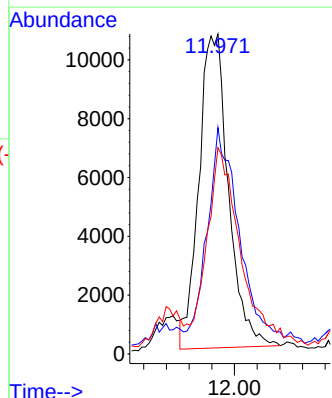
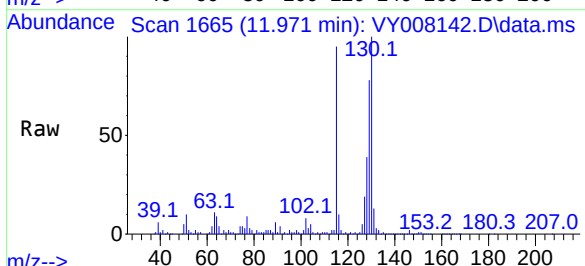
Tgt Ion:104 Resp: 38573

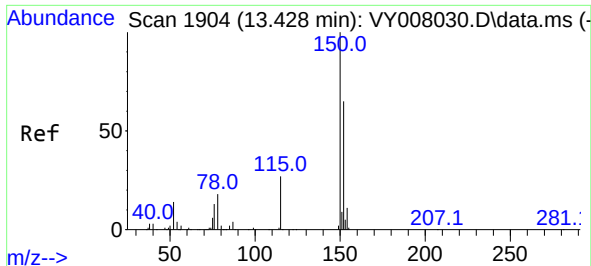
Ion Ratio Lower Upper

104 100

78 68.9 42.4 63.6#

103 70.6 44.4 66.6#

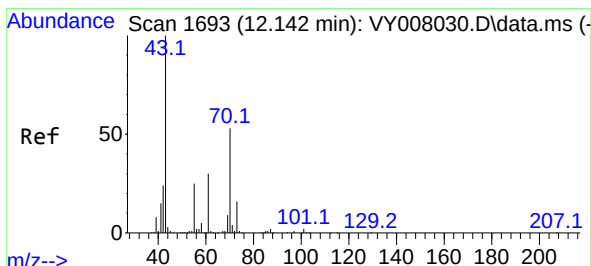
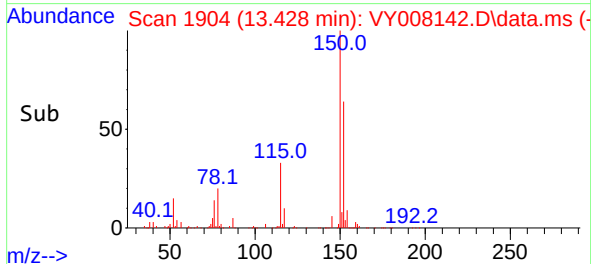
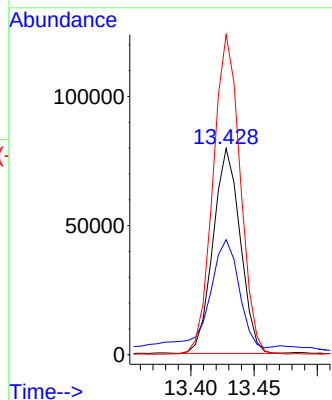
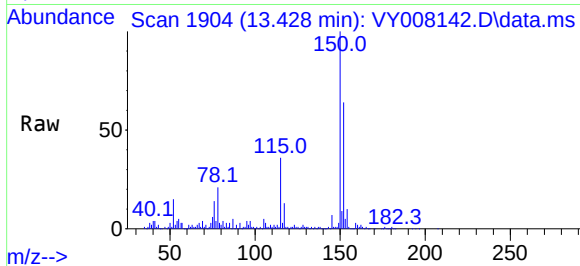




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

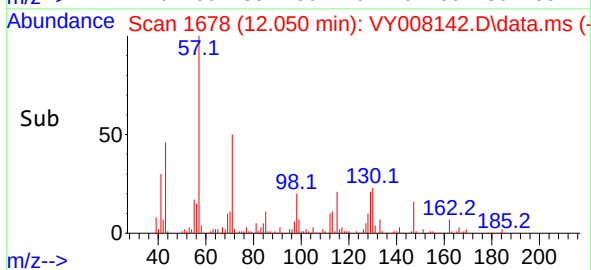
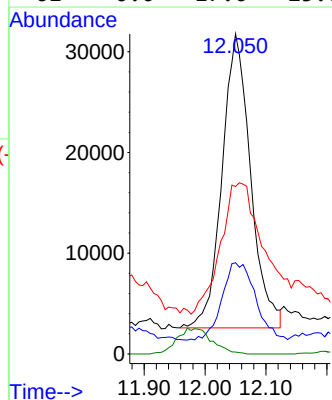
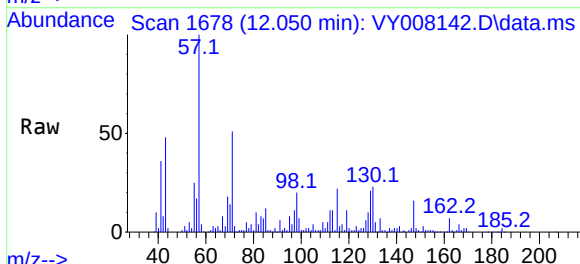
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

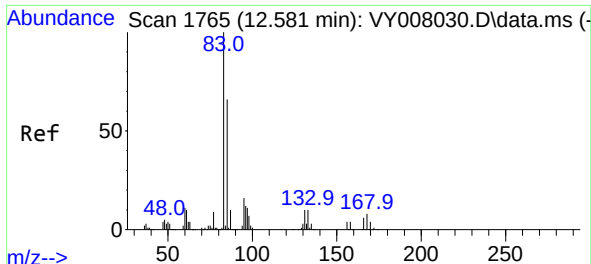
Tgt Ion:152 Resp: 118341
Ion Ratio Lower Upper
152 100
115 57.0 28.2 84.7
150 156.6 0.0 347.6



#74
N-ethyl acetate
Concen: 44.292 ug/l
RT: 12.050 min Scan# 1678
Delta R.T. -0.092 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 43 Resp: 95105
Ion Ratio Lower Upper
43 100
70 30.6 28.7 43.1
55 67.6 17.3 25.9#
61 0.0 17.0 25.6#

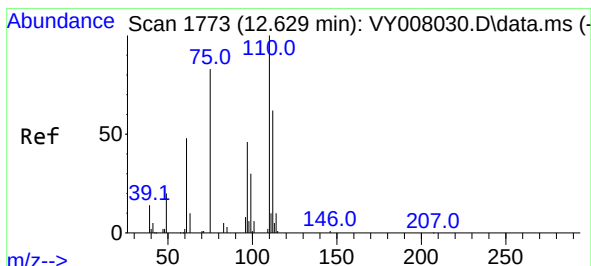
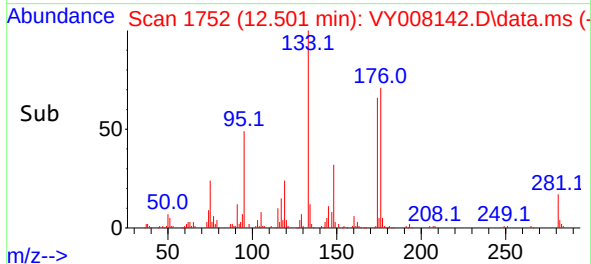
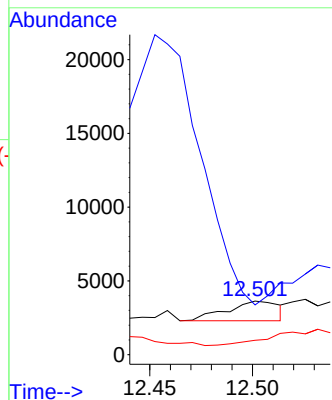
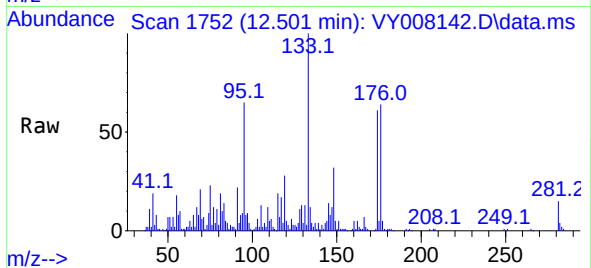




#75
1,1,2,2-Tetrachloroethane
Concen: 1.255 ug/l
RT: 12.501 min Scan# 1749
Delta R.T. -0.080 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

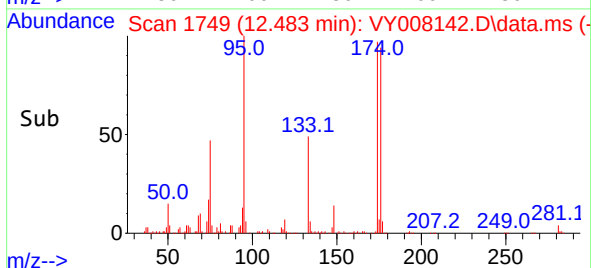
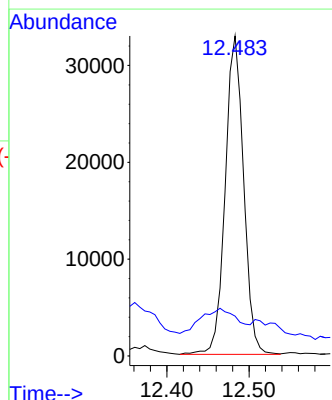
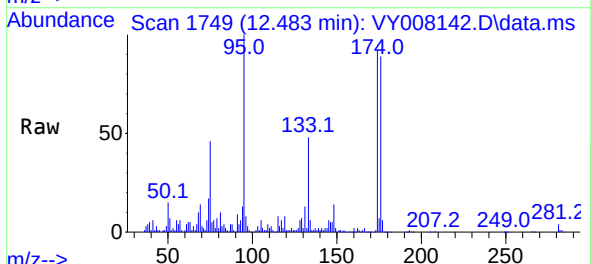
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

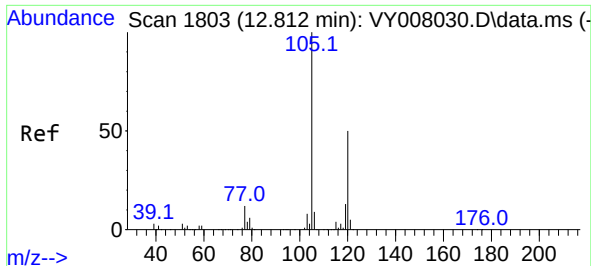
Tgt Ion: 83 Resp: 2383
Ion Ratio Lower Upper
83 100
131 0.0 5.6 16.8#
85 0.0 32.3 96.8#



#76
1,2,3-Trichloropropane
Concen: 35.461 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.146 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 75 Resp: 51155
Ion Ratio Lower Upper
75 100
77 15.1 0.0 0.0#

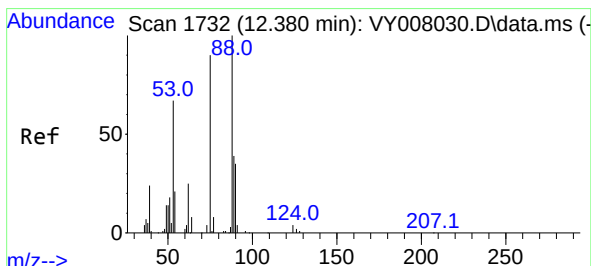
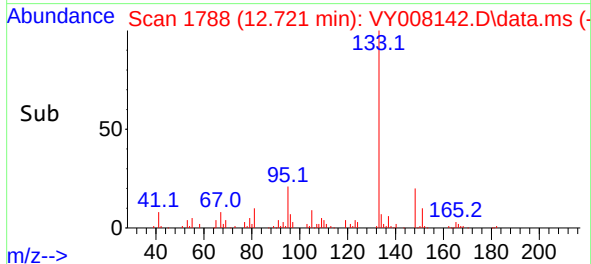
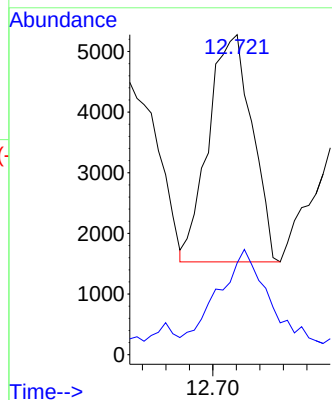
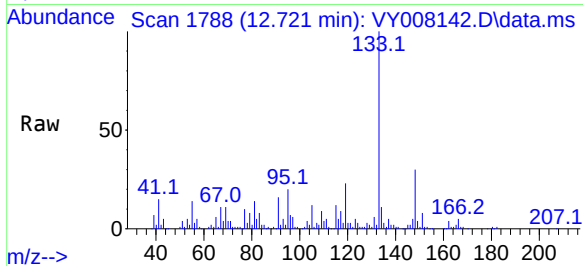




#80
1,3,5-Trimethylbenzene
Concen: 1.207 ug/l
RT: 12.721 min Scan# 11
Delta R.T. -0.091 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

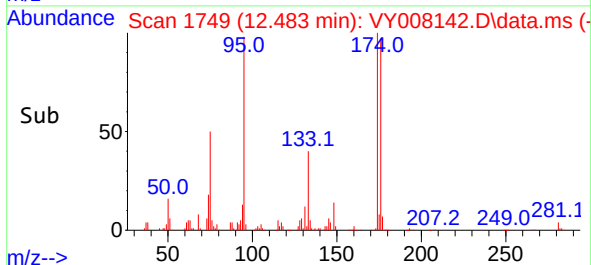
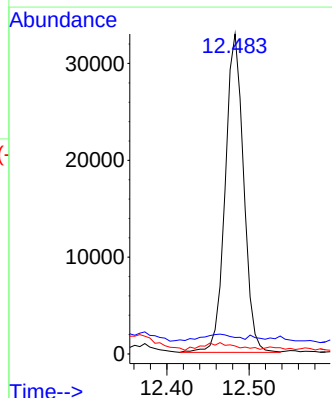
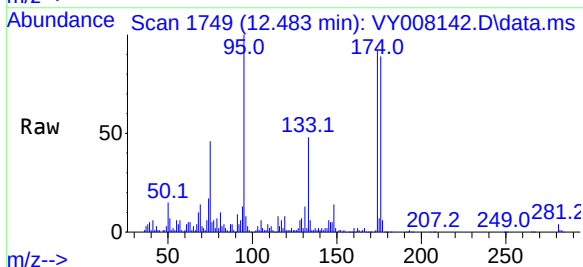
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

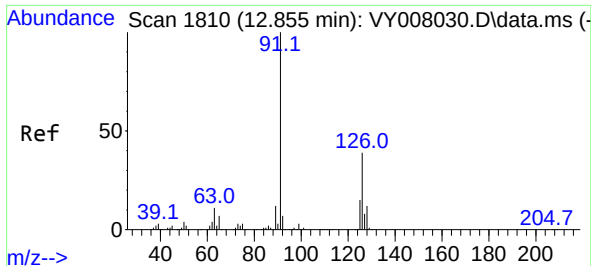
Tgt Ion:105 Resp: 9657
Ion Ratio Lower Upper
105 100
120 48.0 24.4 73.4



#81
trans-1,4-Dichloro-2-butene
Concen: 79.118 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 75 Resp: 51155
Ion Ratio Lower Upper
75 100
53 0.5 85.3 127.9#
89 0.0 37.0 55.4#

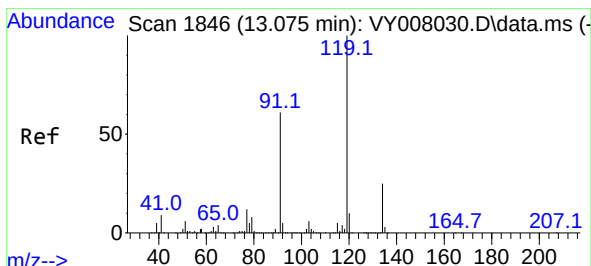
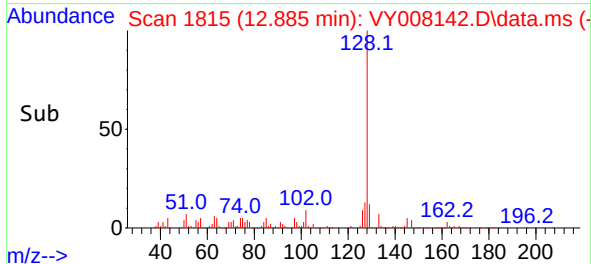
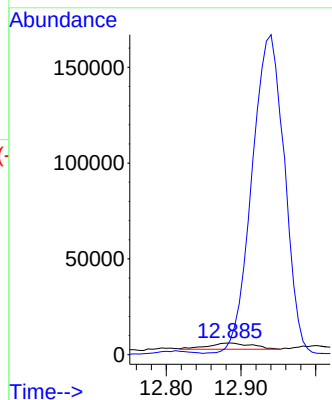
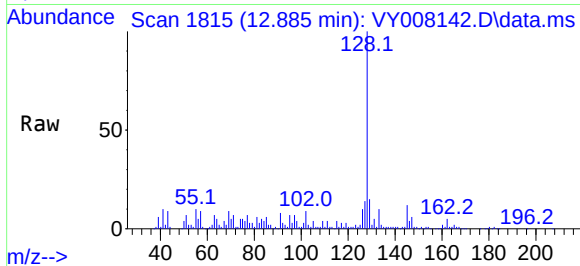




#82
4-Chlorotoluene
Concen: 2.018 ug/l
RT: 12.885 min Scan# 1815
Delta R.T. 0.030 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

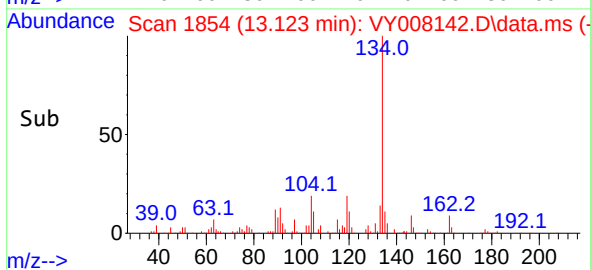
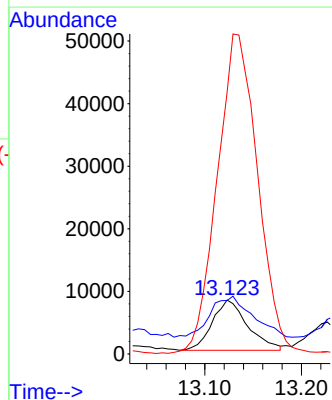
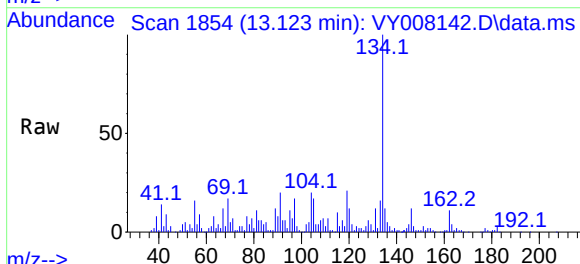
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

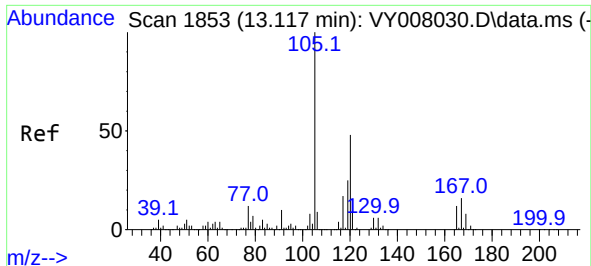
Tgt Ion: 91 Resp: 13237
Ion Ratio Lower Upper
91 100
126 0.0 17.0 51.0#



#83
tert-Butylbenzene
Concen: 2.862 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.048 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion: 119 Resp: 20402
Ion Ratio Lower Upper
119 100
91 96.6 34.8 104.4
134 728.3 13.3 39.9#

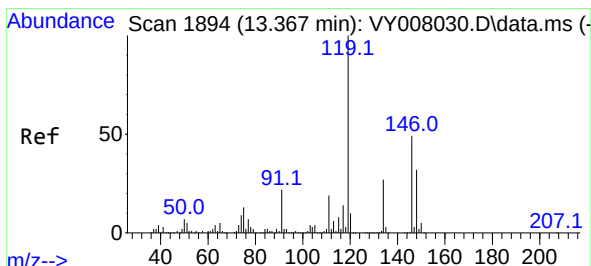
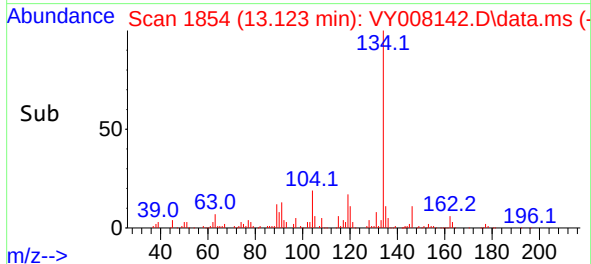
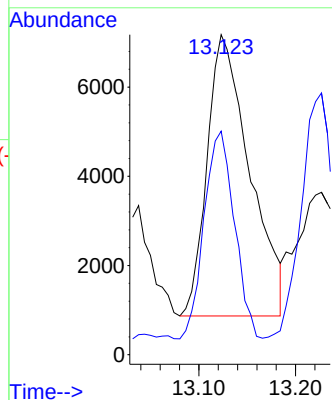
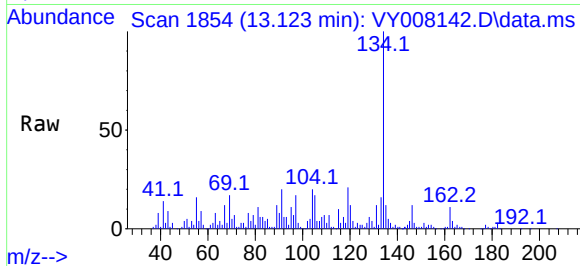




#84
1,2,4-Trimethylbenzene
Concen: 2.477 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

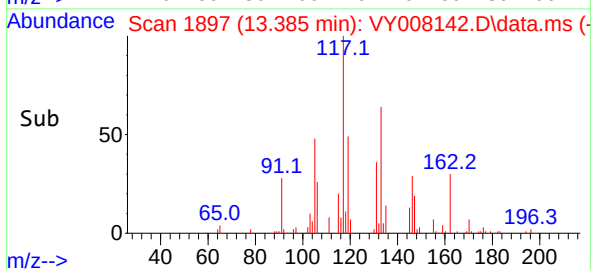
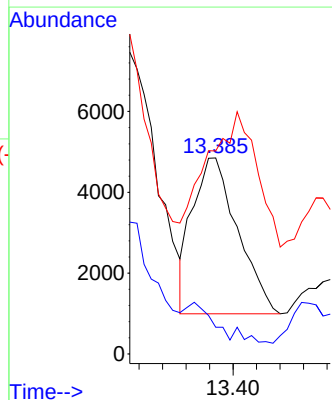
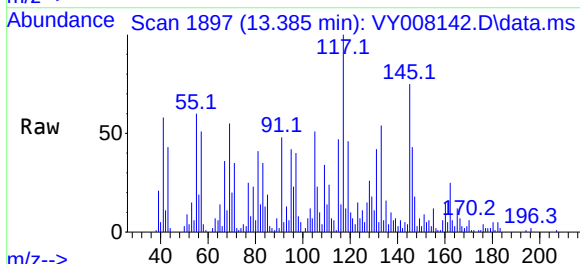
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

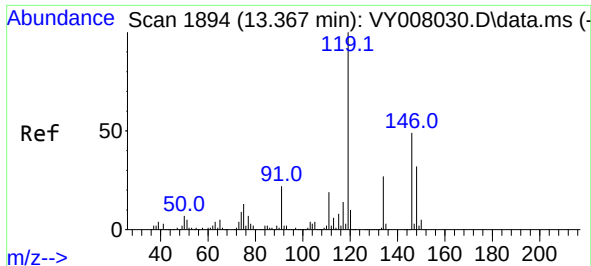
Tgt Ion:105 Resp: 19305
Ion Ratio Lower Upper
105 100
120 52.6 22.3 66.9



#86
p-Isopropyltoluene
Concen: 1.175 ug/l
RT: 13.385 min Scan# 1897
Delta R.T. 0.018 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion:119 Resp: 10293
Ion Ratio Lower Upper
119 100
134 0.0 13.2 39.5#
91 88.1 12.4 37.2#





#87

1,3-Dichlorobenzene

Concen: 2.910 ug/l

RT: 13.391 min Scan# 1898

Delta R.T. 0.024 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

Instrument :

MSVOA_Y

ClientSampleId :

VIBLK

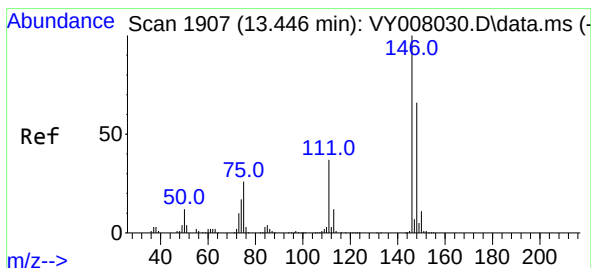
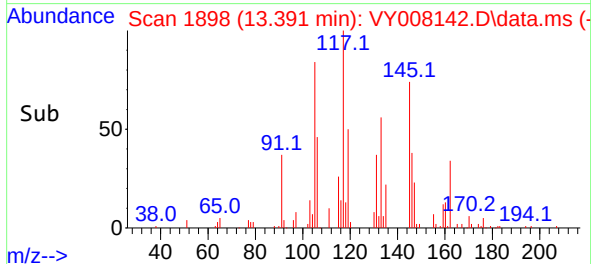
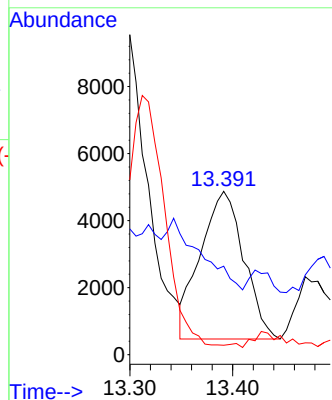
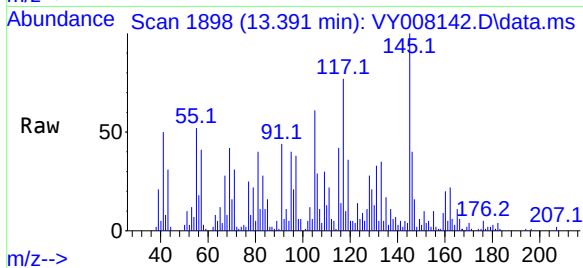
Tgt Ion:146 Resp: 12927

Ion Ratio Lower Upper

146 100

111 0.0 19.5 58.5#

148 0.0 31.6 95.0#



#88

1,4-Dichlorobenzene

Concen: 1.125 ug/l

RT: 13.471 min Scan# 1911

Delta R.T. 0.025 min

Lab File: VY008142.D

Acq: 31 Mar 2022 16:42

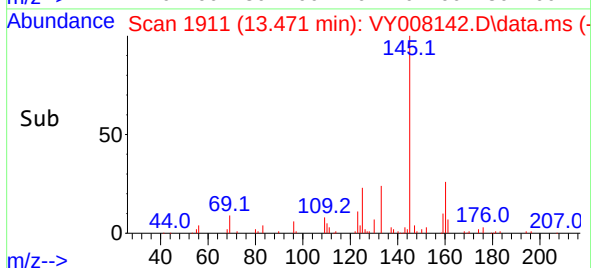
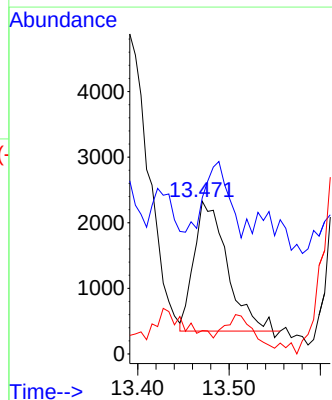
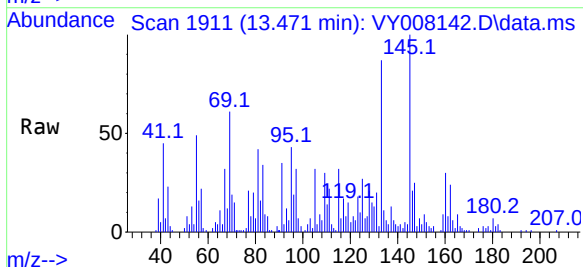
Tgt Ion:146 Resp: 4985

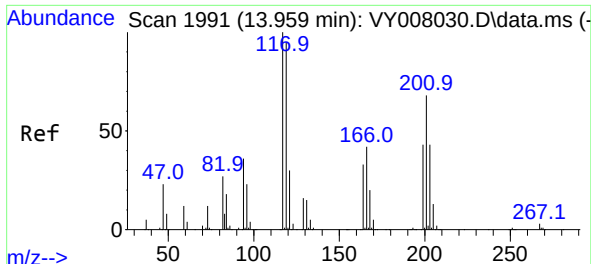
Ion Ratio Lower Upper

146 100

111 0.0 19.3 57.8#

148 0.0 32.6 97.8#

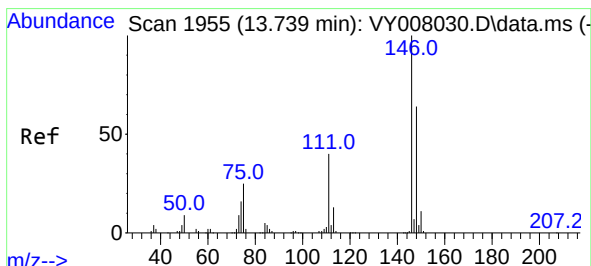
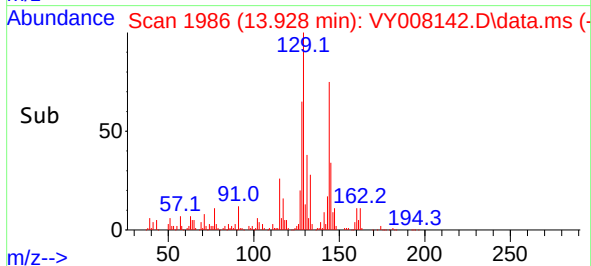
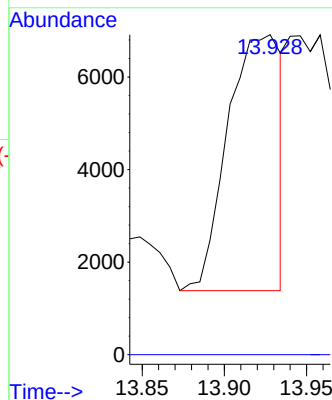
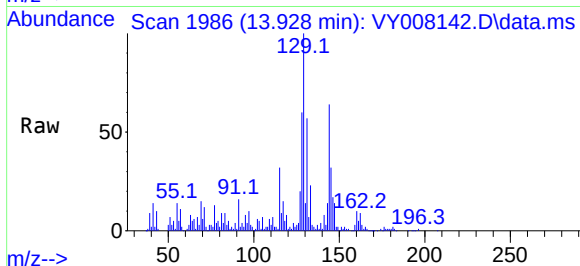




#90
Hexachloroethane
Concen: 7.321 ug/l
RT: 13.928 min Scan# 1986
Delta R.T. -0.031 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

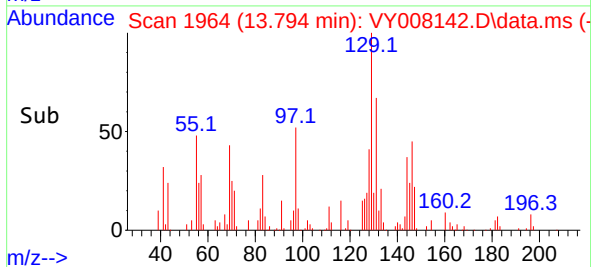
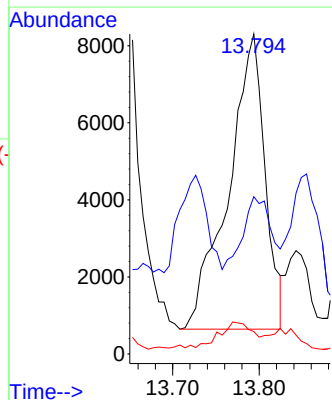
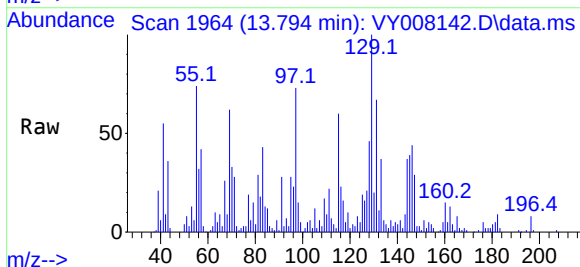
Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

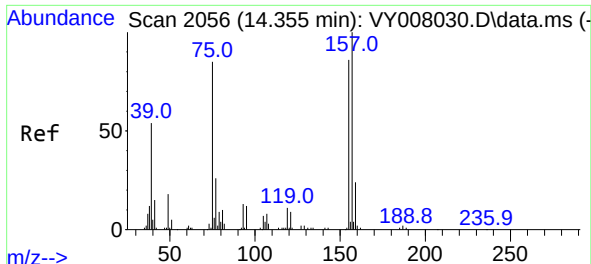
Tgt Ion:117 Resp: 12423
Ion Ratio Lower Upper
117 100
201 0.0 43.0 128.8#



#91
1,2-Dichlorobenzene
Concen: 5.751 ug/l
RT: 13.794 min Scan# 1964
Delta R.T. 0.055 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion:146 Resp: 22495
Ion Ratio Lower Upper
146 100
111 19.0 20.3 60.9#
148 0.0 32.3 96.9#

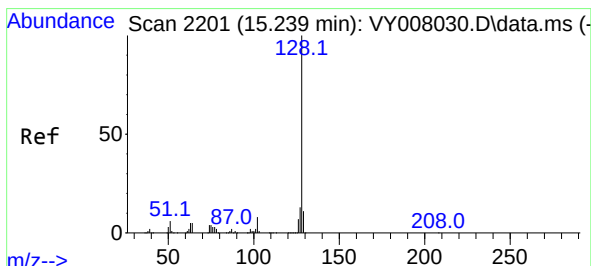
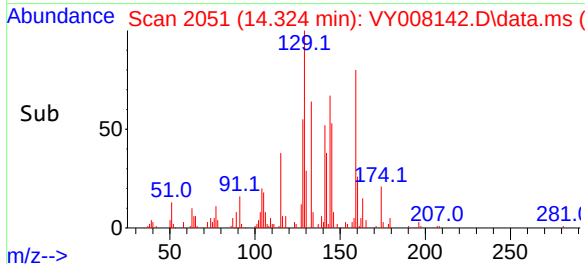
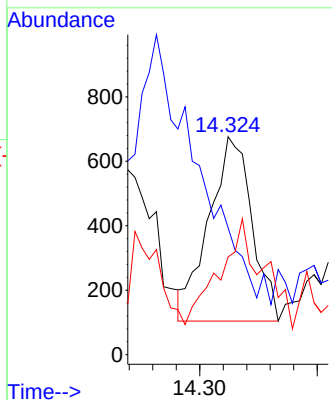
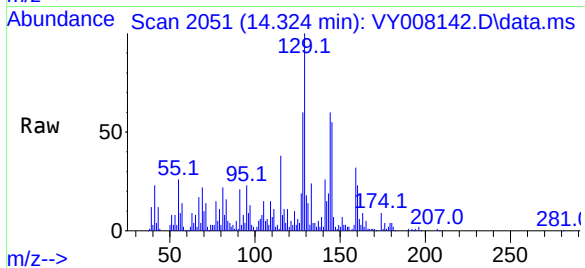




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.808 ug/l
RT: 14.324 min Scan# 2051
Delta R.T. -0.031 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Instrument :
MSVOA_Y
ClientSampleId :
VIBLK

Tgt Ion: 75 Resp: 1457
Ion Ratio Lower Upper
75 100
155 0.0 38.0 113.9#
157 60.6 47.8 143.3



#95
Naphthalene
Concen: 25.493 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. -0.000 min
Lab File: VY008142.D
Acq: 31 Mar 2022 16:42

Tgt Ion:128 Resp: 132017
Ion Ratio Lower Upper
128 100
127 10.9 11.0 16.4#
129 11.0 8.4 12.6

