

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY021122\
 Data File : VY007479.D
 Acq On : 11 Feb 2022 15:03
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

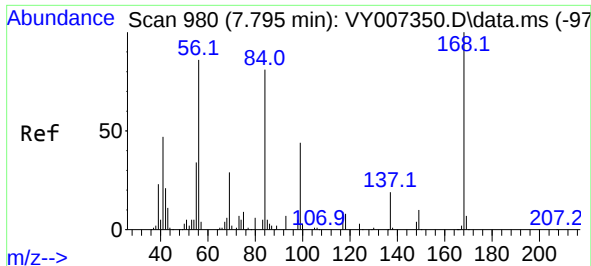
Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 12 02:54:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020222S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 03 04:36:48 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	115834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	204150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	202511	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	90648	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	71792	53.883	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.760%	
35) Dibromofluoromethane	7.722	113	66362	50.622	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.240%	
50) Toluene-d8	10.179	98	249035	51.419	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 102.840%	
62) 4-Bromofluorobenzene	12.483	95	95337	57.915	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 115.820%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	283	Below Cal		95
11) Tert butyl alcohol	4.960	59	146	Below Cal	#	77
16) Acetone	3.948	43	1958	4.525	ug/l #	82
20) Methylene Chloride	4.710	84	2000	Below Cal	#	71
25) 2-Butanone	6.978	43	562	1.075	ug/l #	54
31) Cyclohexane	7.783	56	14216	5.468	ug/l #	83
36) 1,1-Dichloropropene	7.789	75	9010	3.931	ug/l #	54
38) Carbon Tetrachloride	7.789	117	12008	4.987	ug/l #	15
39) Methylcyclohexane	9.179	83	17354	6.030	ug/l	94
48) Methyl methacrylate	9.319	41	1293	1.342	ug/l #	40
51) 4-Methyl-2-Pentanone	10.112	43	4788	4.431	ug/l #	82
55) 1,1,2-Trichloroethane	10.618	97	4020	3.435	ug/l #	21
59) 2-Hexanone	10.801	43	2924	3.711	ug/l #	32
67) Ethyl Benzene	11.593	91	272698	31.899	ug/l	99
68) m/p-Xylenes	11.697	106	9264	2.926	ug/l	94
69) o-Xylene	12.026	106	3963	1.324	ug/l	100
73) Isopropylbenzene	12.325	105	24255	2.928	ug/l	99
74) N-amyl acetate	12.124	43	3154	1.538	ug/l #	64
76) 1,2,3-Trichloropropane	12.477	75	52568	48.781	ug/l #	100
77) Bromobenzene	12.410	156	7947	4.554	ug/l #	1
78) n-propylbenzene	12.672	91	125623	12.519	ug/l	99
79) 2-Chlorotoluene	12.770	91	6402	1.152	ug/l #	45
80) 1,3,5-Trimethylbenzene	12.813	105	63942	9.461	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.477	75	52568	97.728	ug/l #	8
82) 4-Chlorotoluene	12.813	91	7373	1.292	ug/l #	42
85) sec-Butylbenzene	13.252	105	14972	1.697	ug/l #	59
86) p-Isopropyltoluene	13.367	119	8148	1.133	ug/l	99
89) n-Butylbenzene	13.697	91	68574	9.911	ug/l #	70
90) Hexachloroethane	13.977	117	18175	13.378	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.373	75	364	1.481	ug/l #	14
95) Naphthalene	15.233	128	301737	82.326	ug/l	99

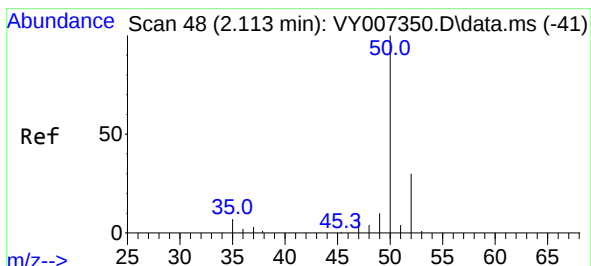
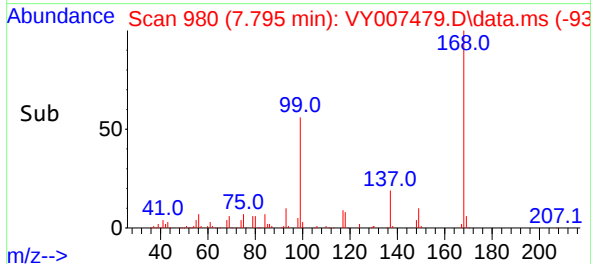
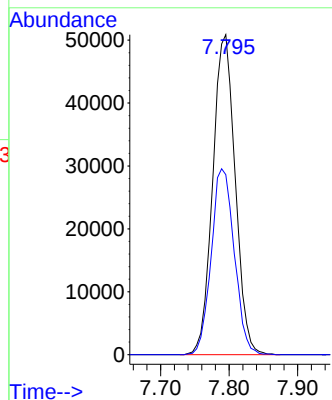
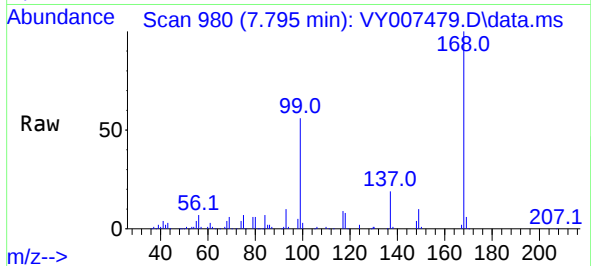
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

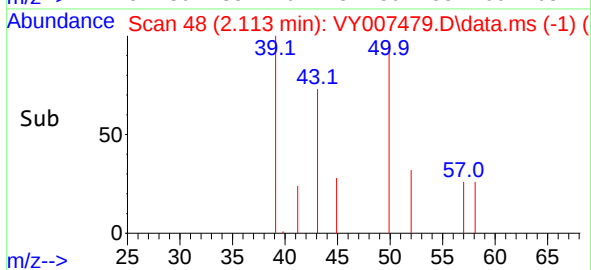
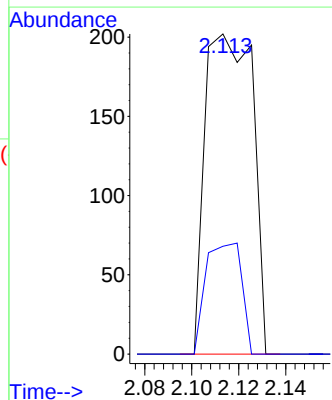
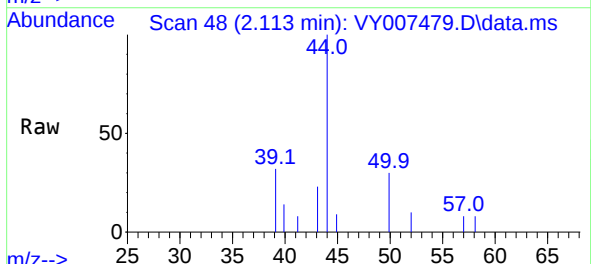
Instrument :
MSVOA_Y
ClientSampleId :

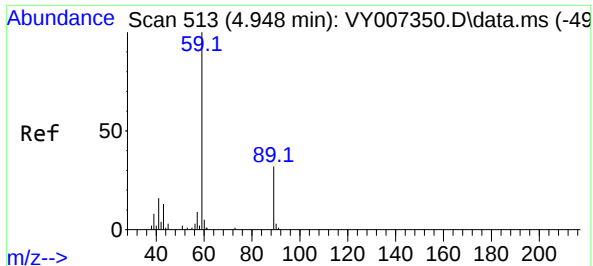
Tgt Ion:168 Resp: 115834
Ion Ratio Lower Upper
168 100
99 56.3 46.9 70.3



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 50 Resp: 283
Ion Ratio Lower Upper
50 100
52 33.7 24.6 37.0





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.960 min Scan# 513

Delta R.T. 0.012 min

Lab File: VY007479.D

Acq: 11 Feb 2022 15:03

Instrument :

MSVOA_Y

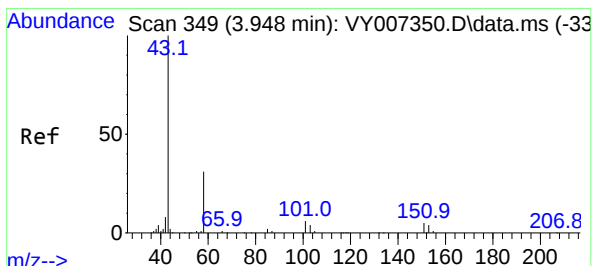
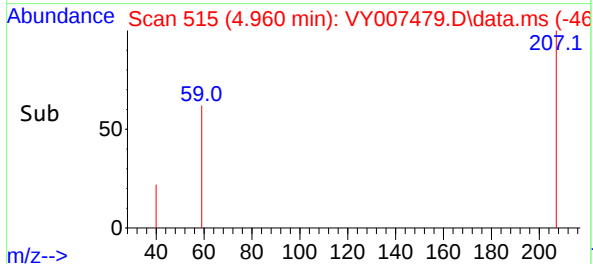
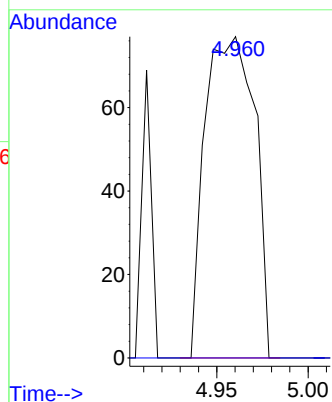
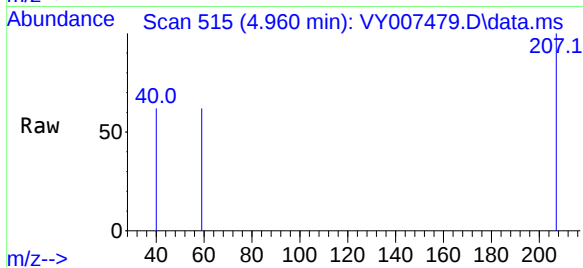
ClientSampleId :

Tgt Ion: 59 Resp: 146

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#16

Acetone

Concen: 4.525 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.000 min

Lab File: VY007479.D

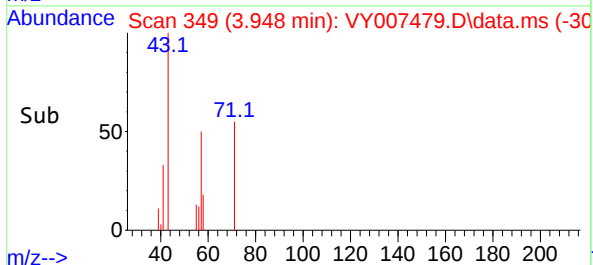
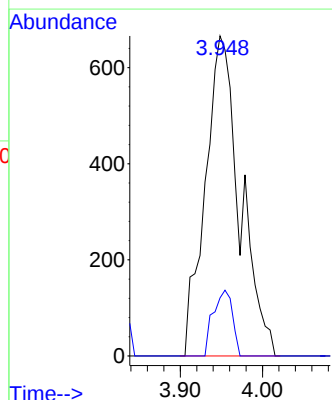
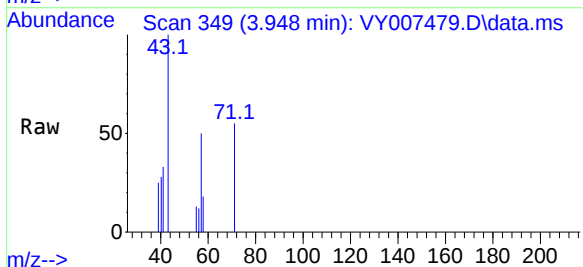
Acq: 11 Feb 2022 15:03

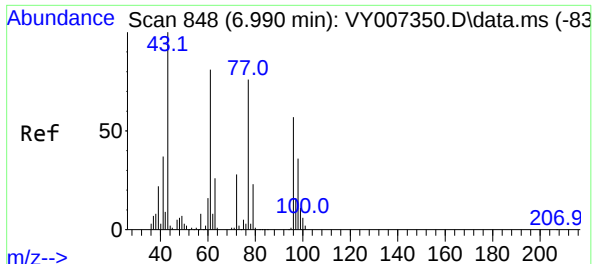
Tgt Ion: 43 Resp: 1958

Ion Ratio Lower Upper

43 100

58 18.2 22.0 33.0#





#25

2-Butanone

Concen: 1.075 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.012 min

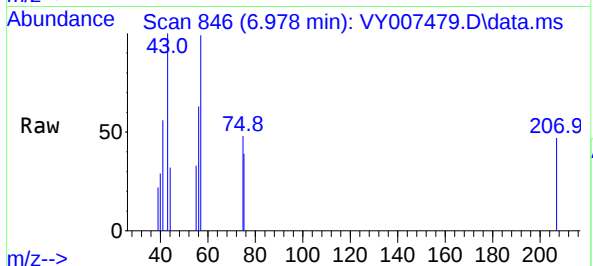
Lab File: VY007479.D

Acq: 11 Feb 2022 15:03

Instrument :

MSVOA_Y

ClientSampleId :

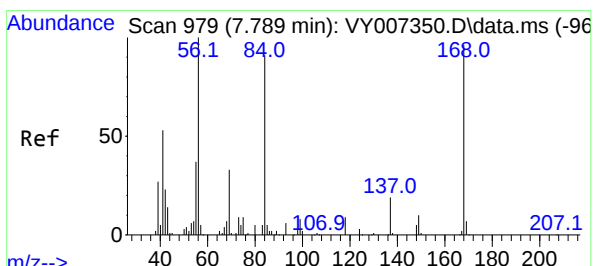
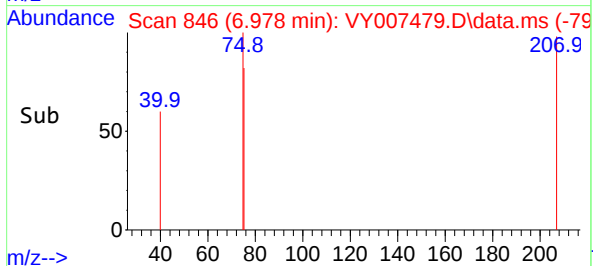
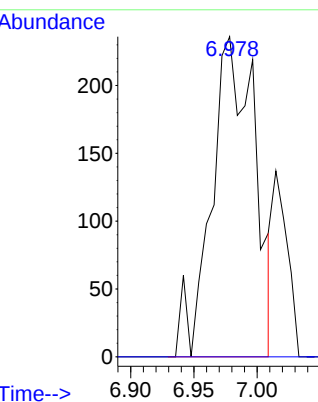


Tgt Ion: 43 Resp: 562

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#31

Cyclohexane

Concen: 5.468 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.006 min

Lab File: VY007479.D

Acq: 11 Feb 2022 15:03

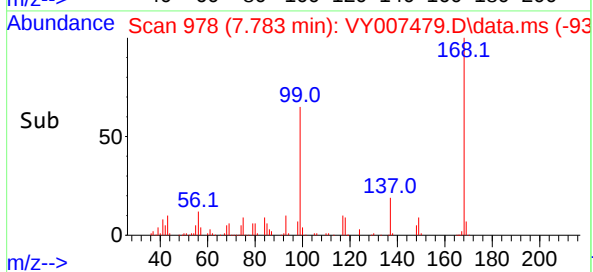
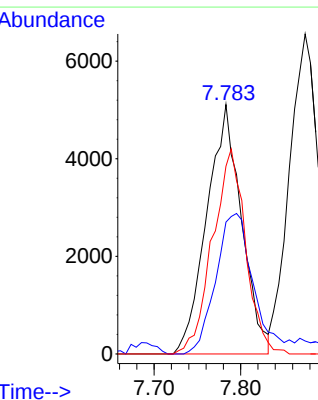
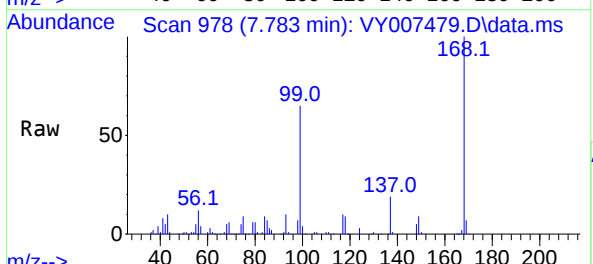
Tgt Ion: 56 Resp: 14216

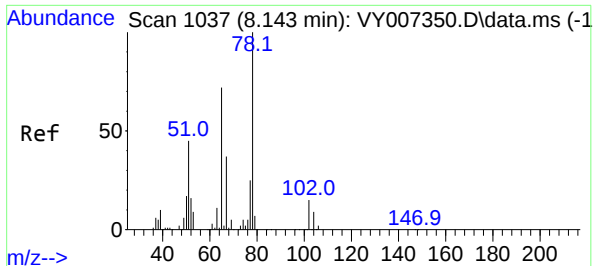
Ion Ratio Lower Upper

56 100

69 52.9 26.7 40.1#

84 75.2 67.2 100.8





#33

1,2-Dichloroethane-d4

Concen: 53.883 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VY007479.D

Acq: 11 Feb 2022 15:03

Instrument :

MSVOA_Y

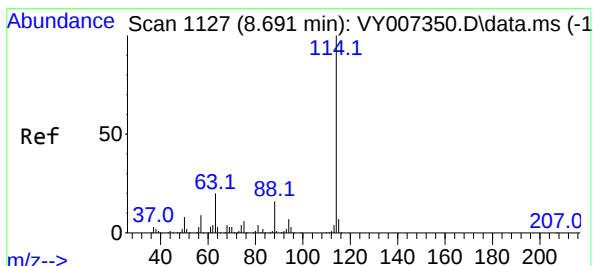
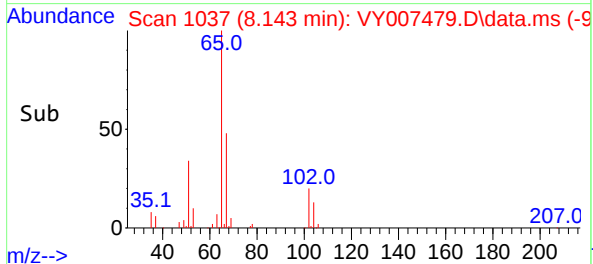
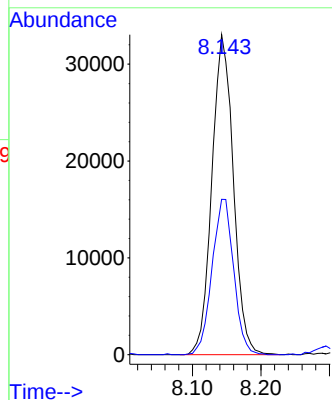
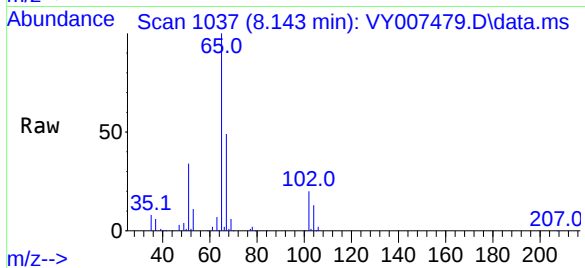
ClientSampleId :

Tgt Ion: 65 Resp: 71792

Ion Ratio Lower Upper

65 100

67 49.0 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY007479.D

Acq: 11 Feb 2022 15:03

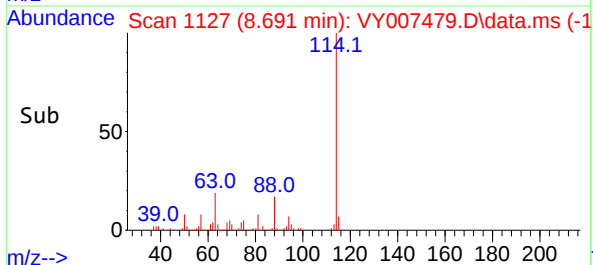
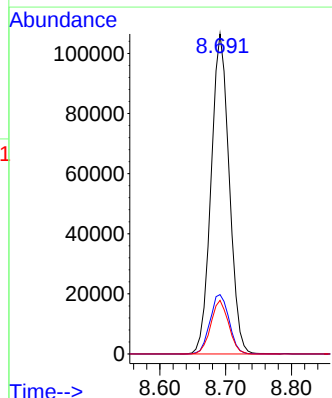
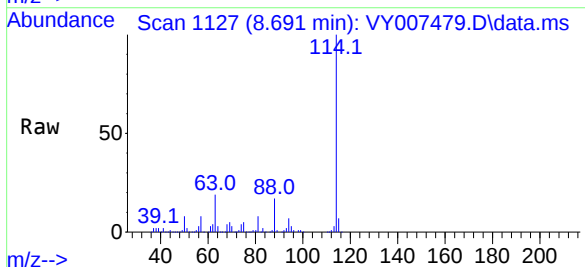
Tgt Ion: 114 Resp: 204150

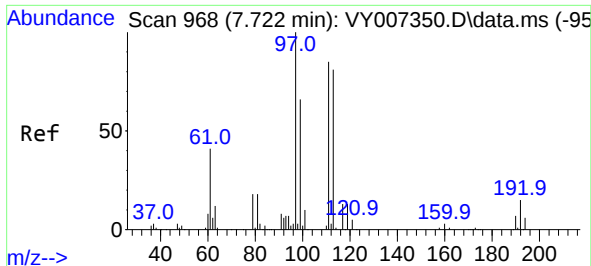
Ion Ratio Lower Upper

114 100

63 18.6 0.0 43.2

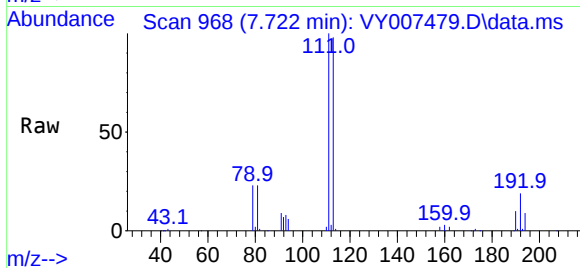
88 16.8 0.0 31.8



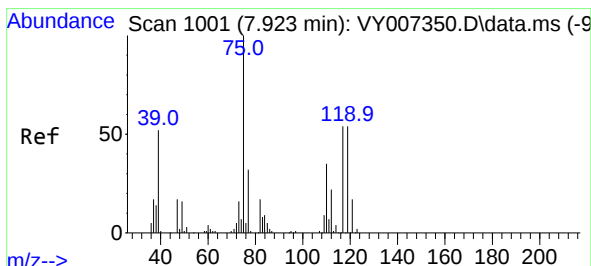
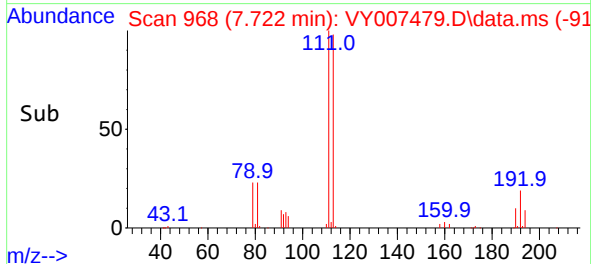
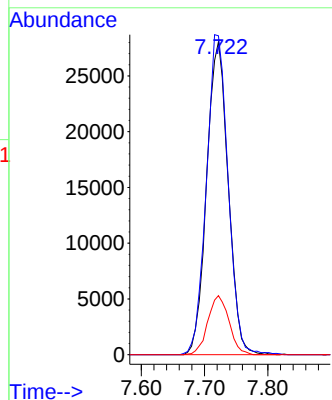


#35
Dibromofluoromethane
Concen: 50.622 ug/l
RT: 7.722 min Scan# 911
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Instrument :
MSVOA_Y
ClientSampleId :

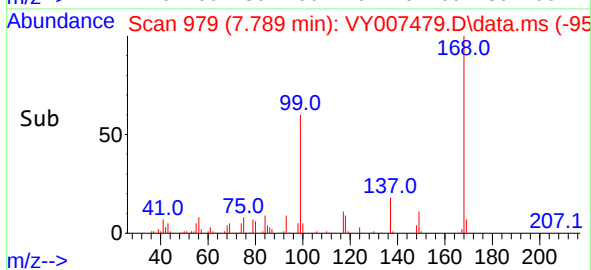
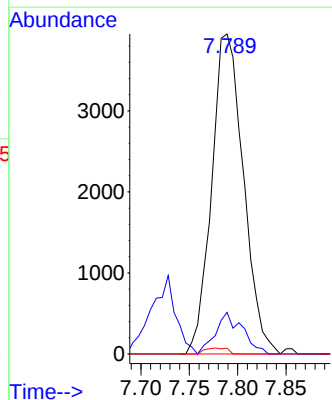
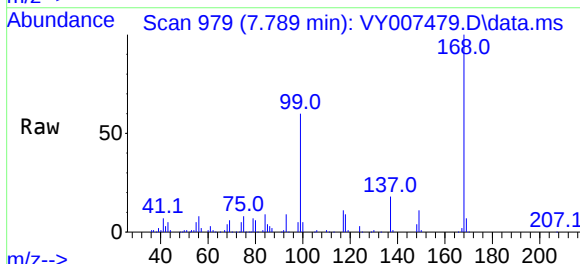


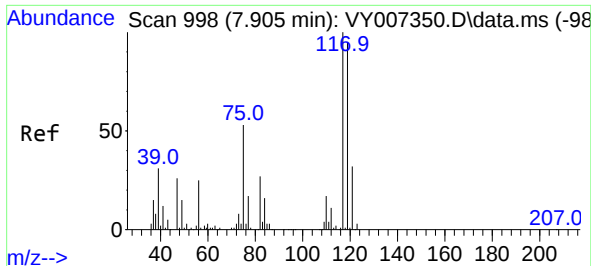
Tgt Ion:113 Resp: 66362
Ion Ratio Lower Upper
113 100
111 103.3 82.6 124.0
192 18.6 17.6 26.4



#36
1,1-Dichloropropene
Concen: 3.931 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

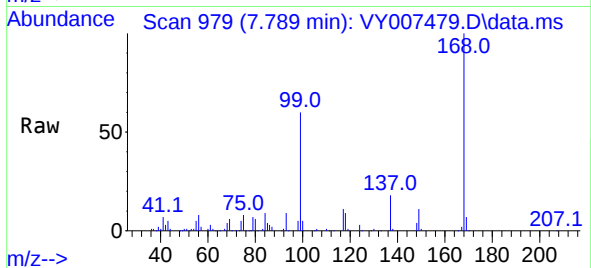
Tgt Ion: 75 Resp: 9010
Ion Ratio Lower Upper
75 100
110 11.0 17.1 51.2#
77 1.3 24.4 36.6#



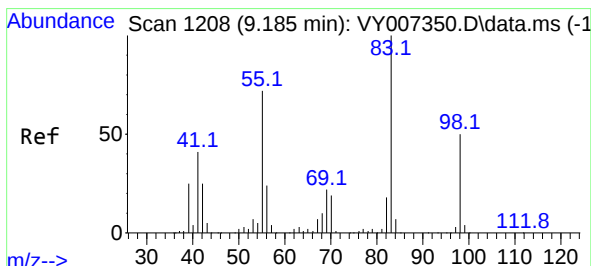
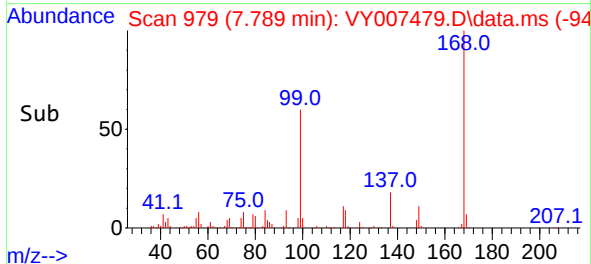
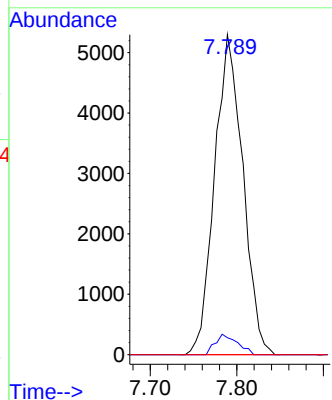


#38
Carbon Tetrachloride
Concen: 4.987 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Instrument :
MSVOA_Y
ClientSampleId :

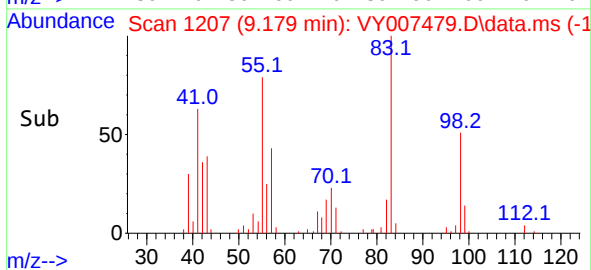
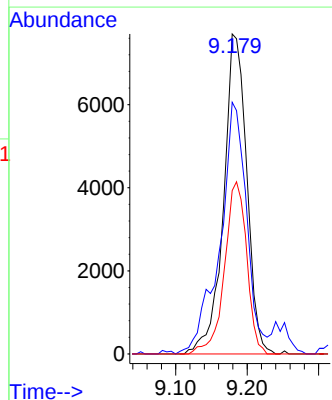
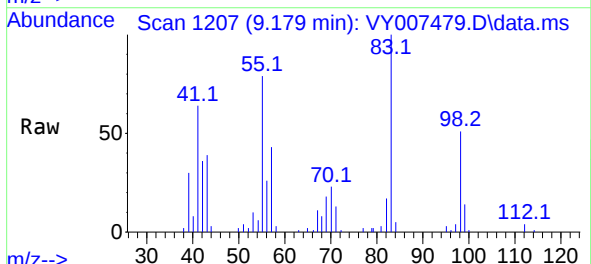


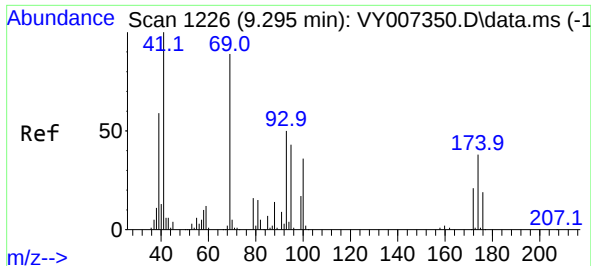
Tgt Ion:117 Resp: 12008
Ion Ratio Lower Upper
117 100
119 5.3 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: 6.030 ug/l
RT: 9.179 min Scan# 1207
Delta R.T. -0.006 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 83 Resp: 17354
Ion Ratio Lower Upper
83 100
55 77.9 66.5 99.7
98 51.1 37.9 56.9





#48

Methyl methacrylate

Concen: 1.342 ug/l

RT: 9.319 min Scan# 1230

Delta R.T. 0.025 min

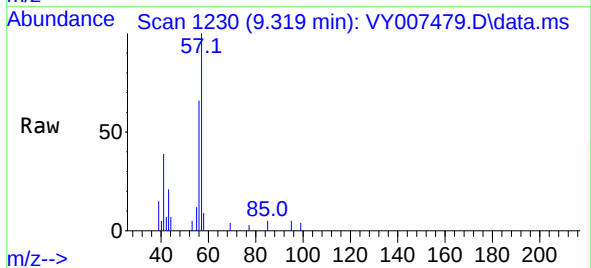
Lab File: VY007479.D

Acq: 11 Feb 2022 15:03

Instrument :

MSVOA_Y

ClientSampleId :



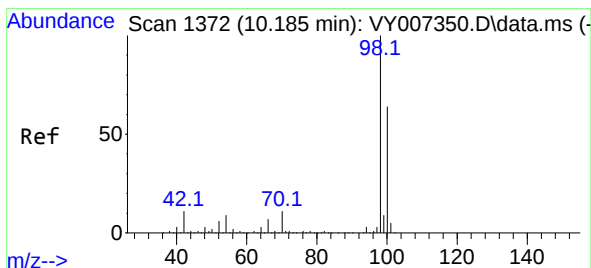
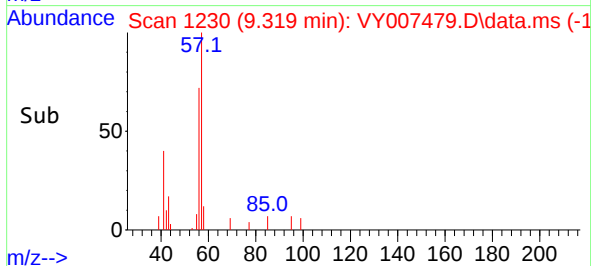
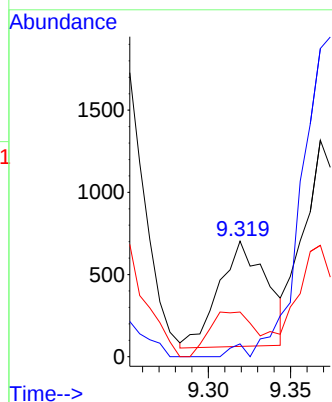
Tgt Ion: 41 Resp: 1293

Ion Ratio Lower Upper

41 100

69 0.0 58.2 87.2#

39 39.3 47.4 71.0#



#50

Toluene-d8

Concen: 51.419 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.006 min

Lab File: VY007479.D

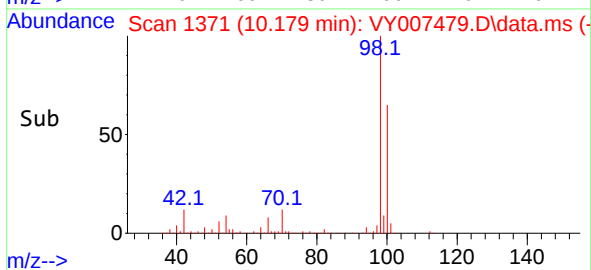
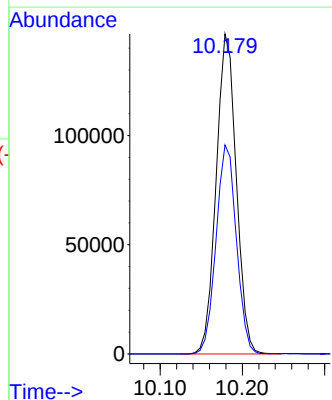
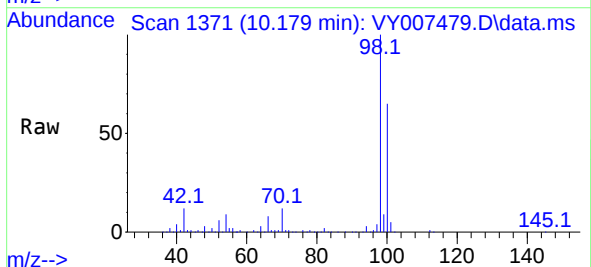
Acq: 11 Feb 2022 15:03

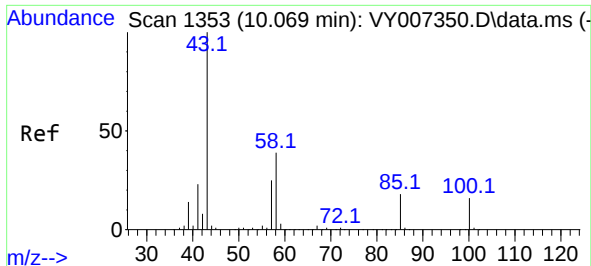
Tgt Ion: 98 Resp: 249035

Ion Ratio Lower Upper

98 100

100 65.9 50.2 75.2

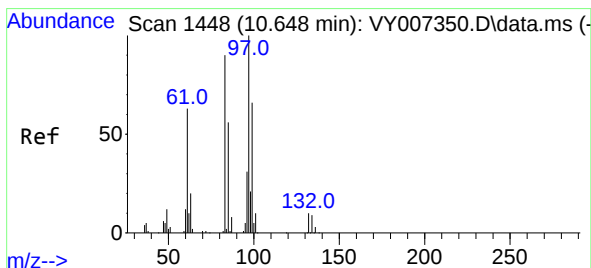
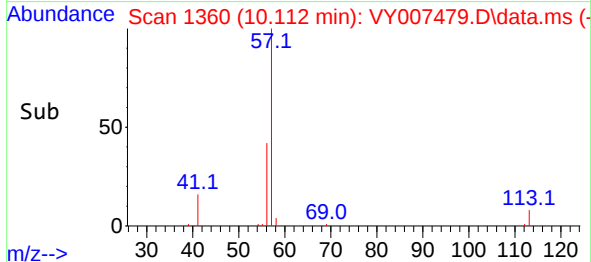
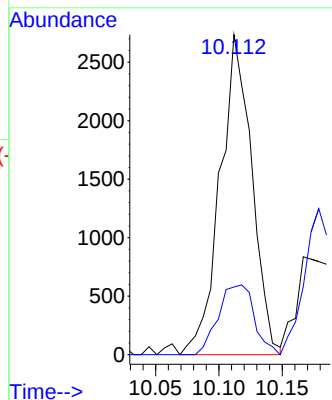
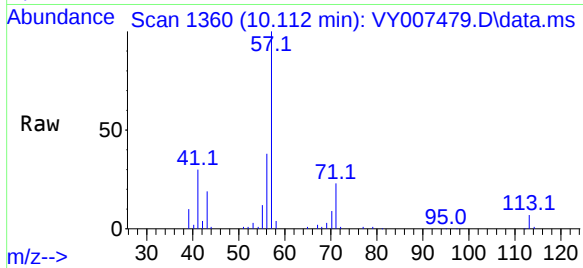




#51
4-Methyl-2-Pentanone
Concen: 4.431 ug/l
RT: 10.112 min Scan# 11
Delta R.T. 0.043 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

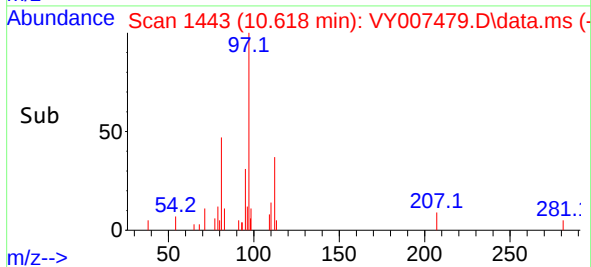
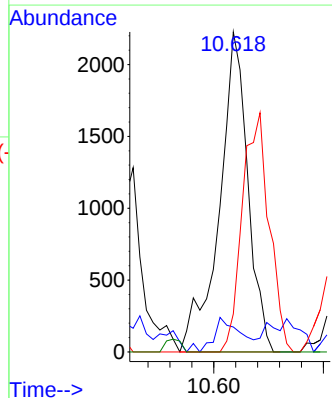
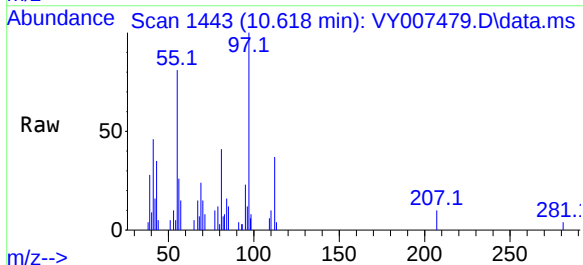
Instrument :
MSVOA_Y
ClientSampleId :

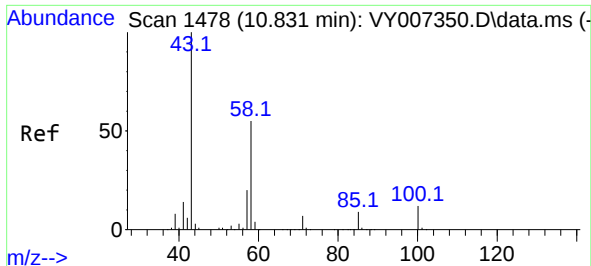
Tgt Ion: 43 Resp: 4788
Ion Ratio Lower Upper
43 100
58 24.6 28.1 42.1#



#55
1,1,2-Trichloroethane
Concen: 3.435 ug/l
RT: 10.618 min Scan# 1443
Delta R.T. -0.030 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 97 Resp: 4020
Ion Ratio Lower Upper
97 100
83 4.7 69.8 104.8#
85 11.9 44.3 66.5#
99 0.0 49.8 74.6#

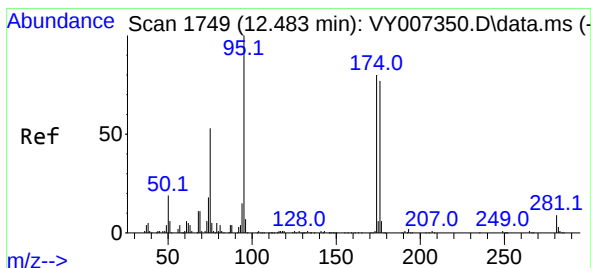
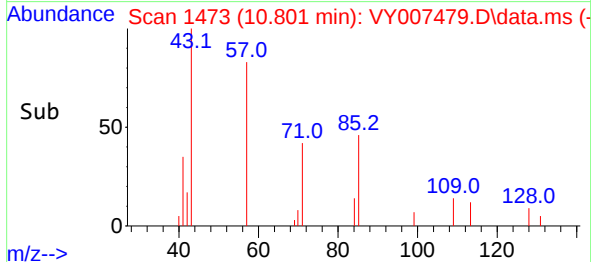
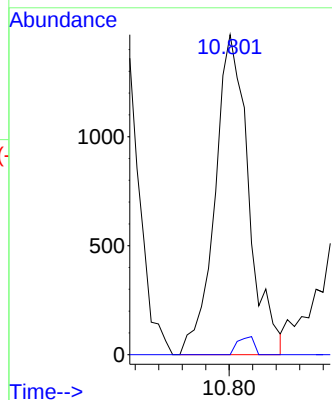
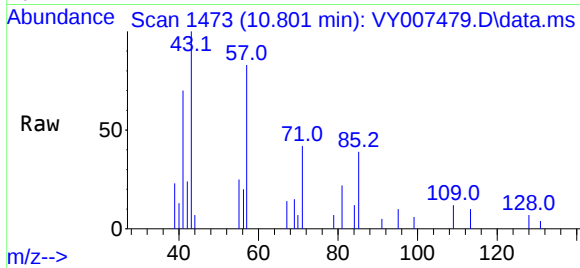




#59
2-Hexanone
Concen: 3.711 ug/l
RT: 10.801 min Scan# 1478
Delta R.T. -0.030 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

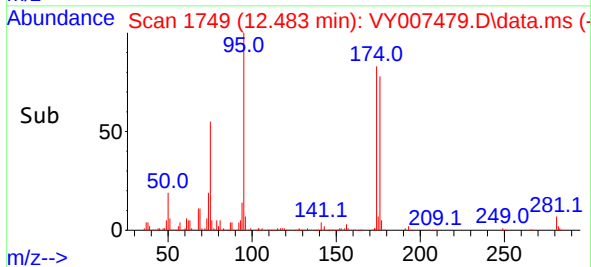
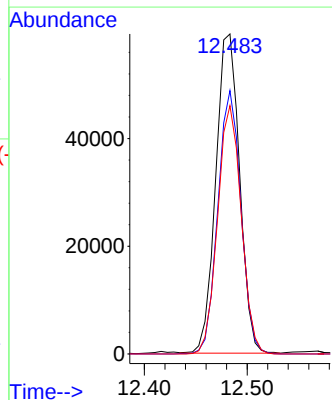
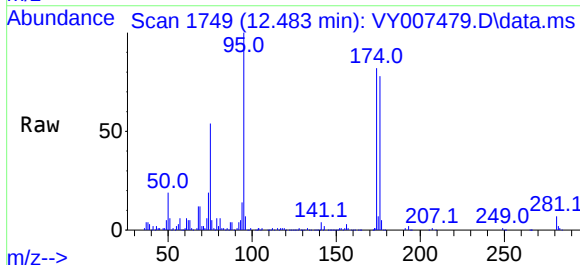
Instrument :
MSVOA_Y
ClientSampleId :

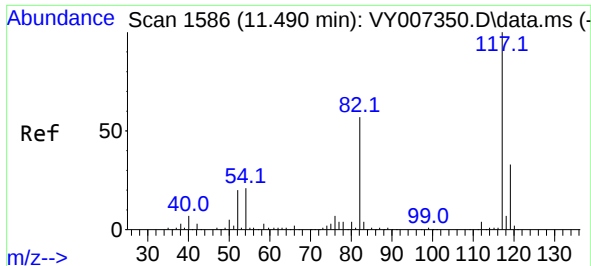
Tgt Ion: 43 Resp: 2924
Ion Ratio Lower Upper
43 100
58 2.7 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 57.915 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 95 Resp: 95337
Ion Ratio Lower Upper
95 100
174 80.0 0.0 177.0
176 77.0 0.0 175.8

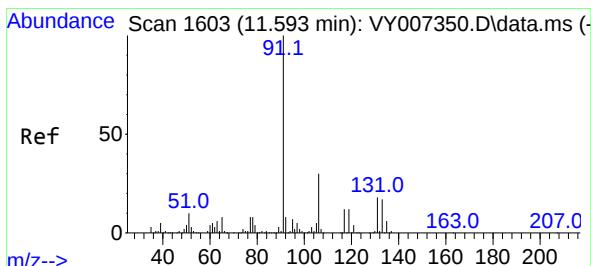
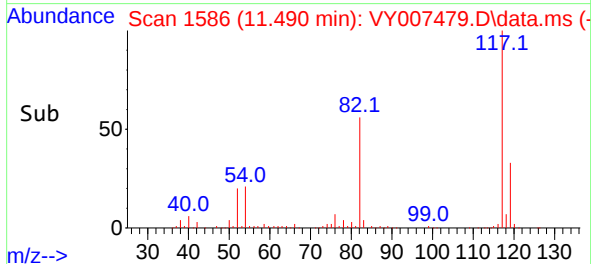
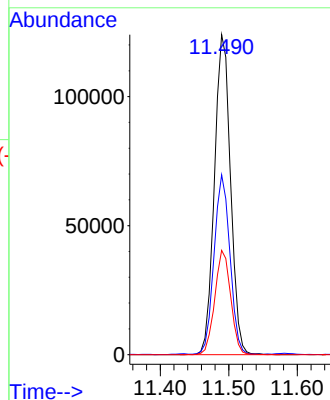
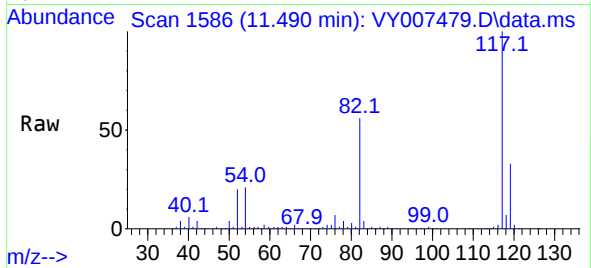




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

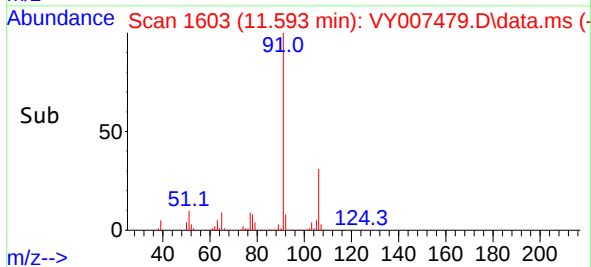
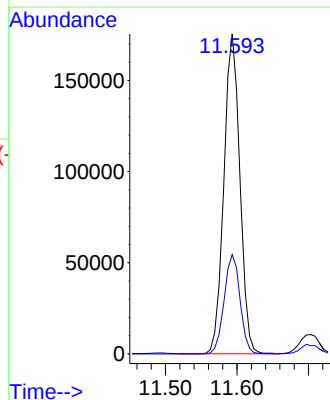
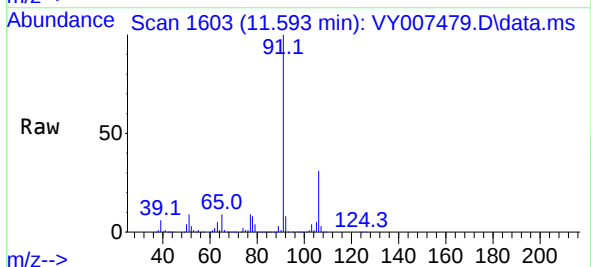
Instrument :
MSVOA_Y
ClientSampleId :

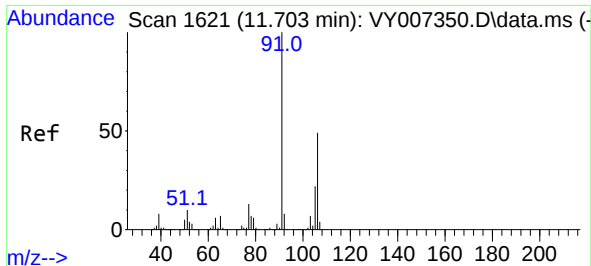
Tgt Ion:117 Resp: 202511
Ion Ratio Lower Upper
117 100
82 56.0 43.0 64.4
119 32.6 25.4 38.0



#67
Ethyl Benzene
Concen: 31.899 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 91 Resp: 272698
Ion Ratio Lower Upper
91 100
106 31.1 24.5 36.7

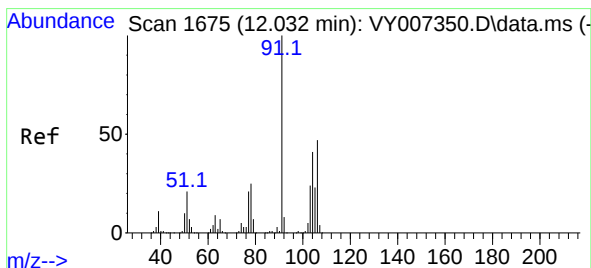
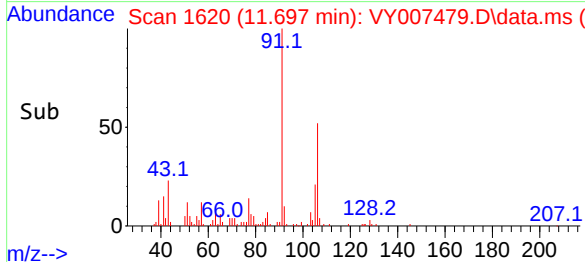
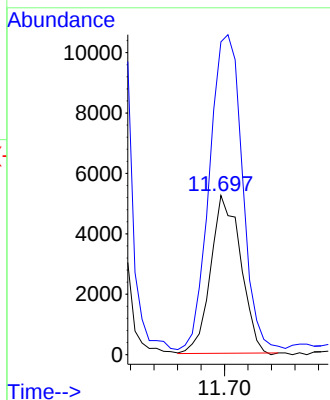
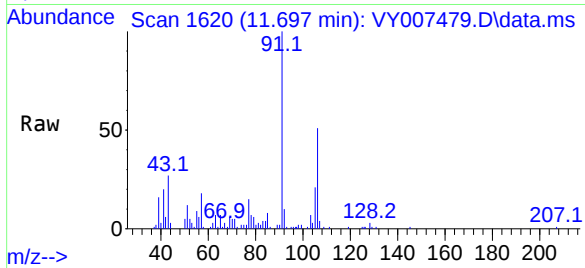




#68
m/p-Xylenes
Concen: 2.926 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

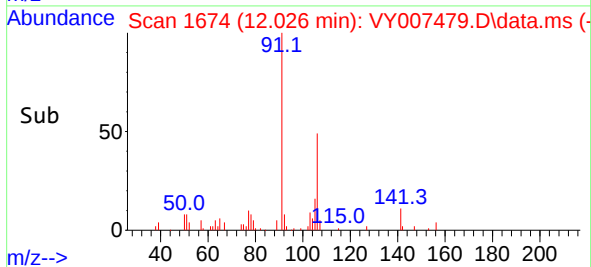
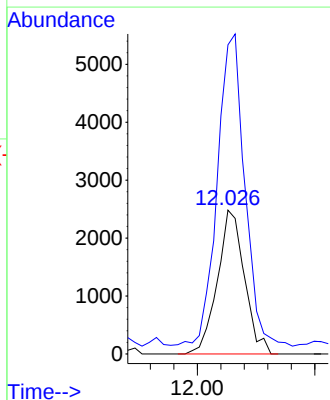
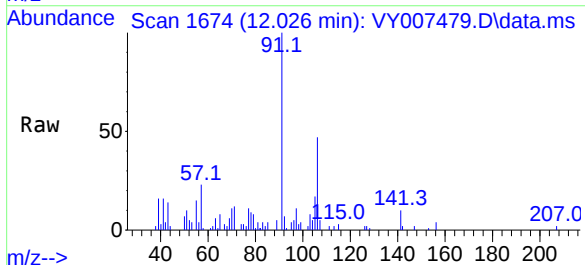
Instrument :
MSVOA_Y
ClientSampleId :

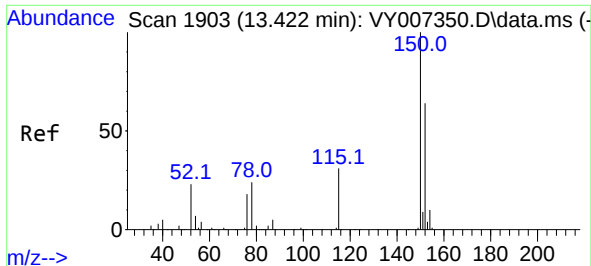
Tgt Ion:106 Resp: 9264
Ion Ratio Lower Upper
106 100
91 217.5 166.6 249.8



#69
o-Xylene
Concen: 1.324 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.006 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion:106 Resp: 3963
Ion Ratio Lower Upper
106 100
91 220.5 110.3 331.0

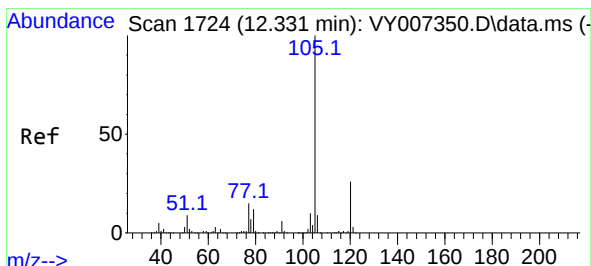
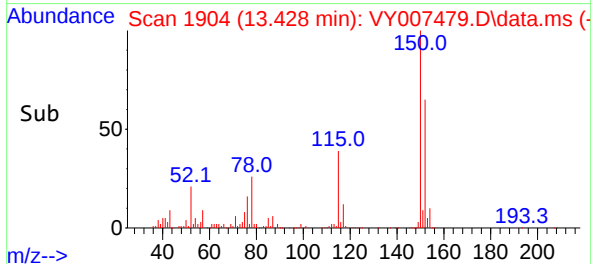
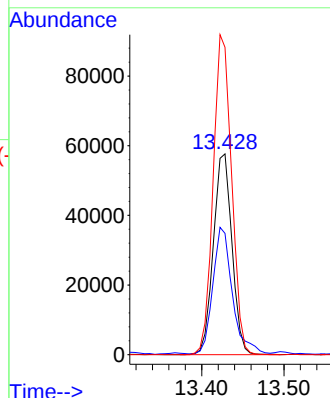
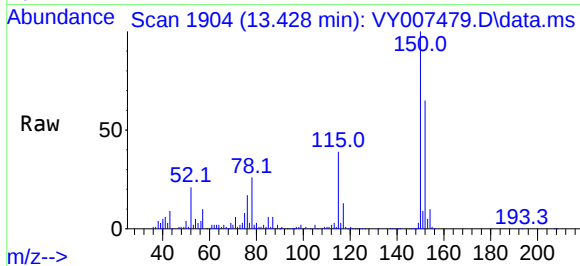




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

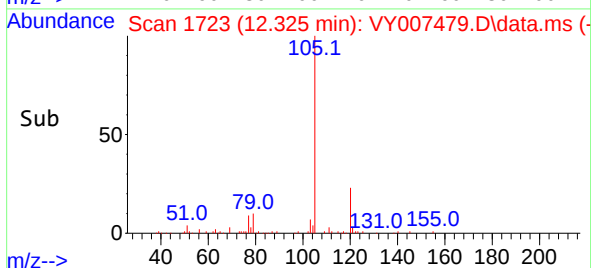
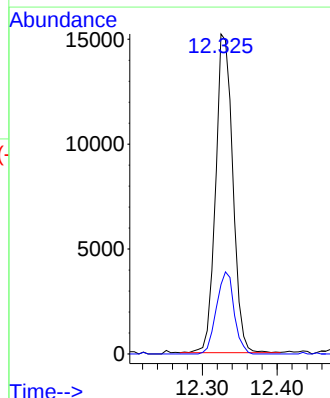
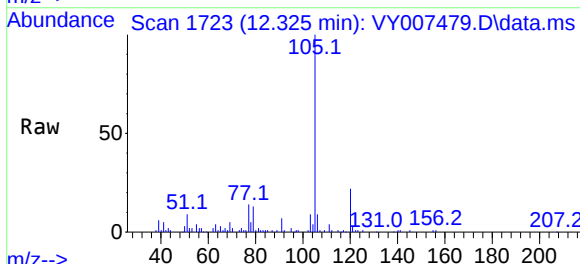
Instrument :
MSVOA_Y
ClientSampleId :

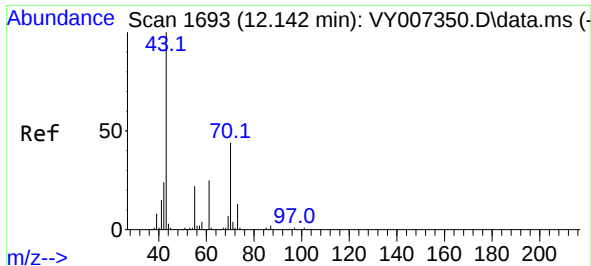
Tgt Ion:152 Resp: 90648
Ion Ratio Lower Upper
152 100
115 66.3 28.2 84.7
150 157.6 0.0 347.6



#73
Isopropylbenzene
Concen: 2.928 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. -0.006 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion:105 Resp: 24255
Ion Ratio Lower Upper
105 100
120 26.5 13.4 40.2

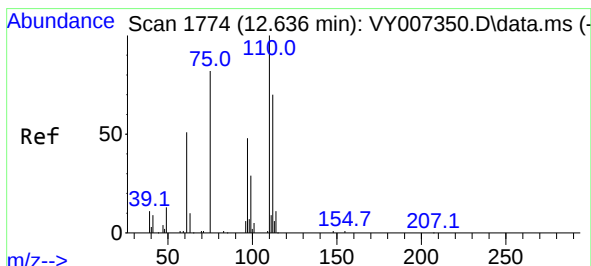
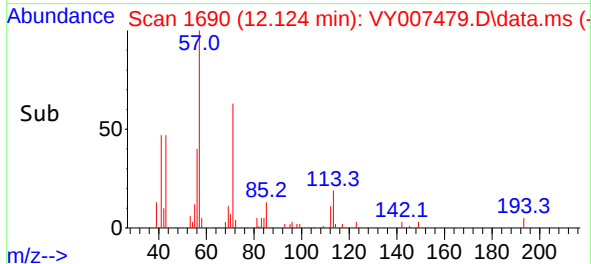
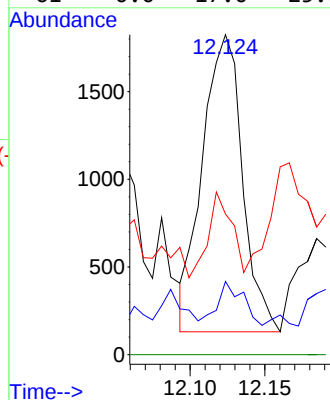
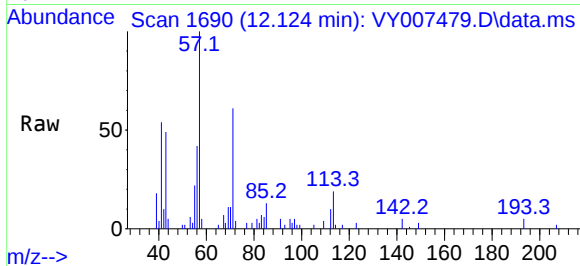




#74
N-amy1 acetate
Concen: 1.538 ug/l
RT: 12.124 min Scan# 1
Delta R.T. -0.018 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

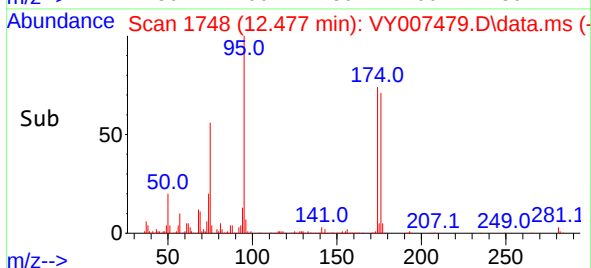
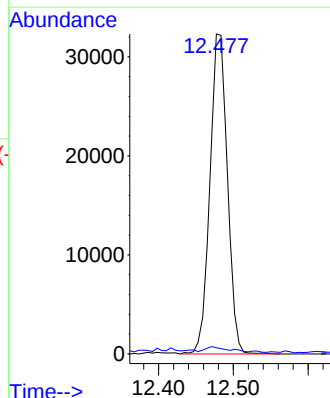
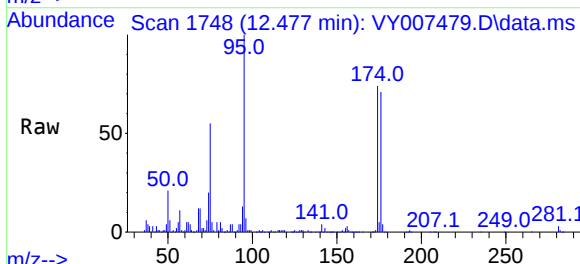
Instrument :
MSVOA_Y
ClientSampleId :

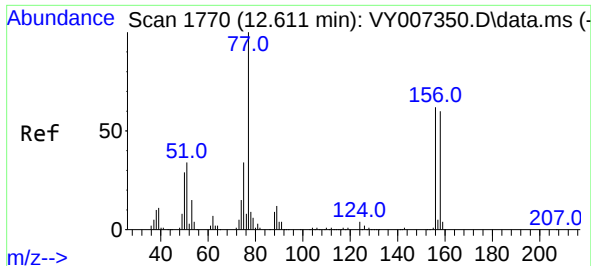
Tgt Ion:	43	Resp:	3154
Ion	Ratio	Lower	Upper
43	100		
70	9.3	28.7	43.1#
55	16.8	17.3	25.9#
61	0.0	17.0	25.6#



#76
1,2,3-Trichloropropane
Concen: 48.781 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.158 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion:	75	Resp:	52568
Ion	Ratio	Lower	Upper
75	100		
77	1.9	0.0	0.0#

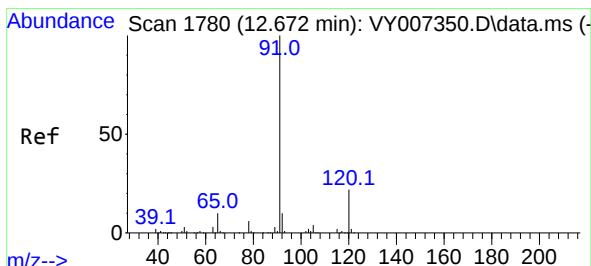
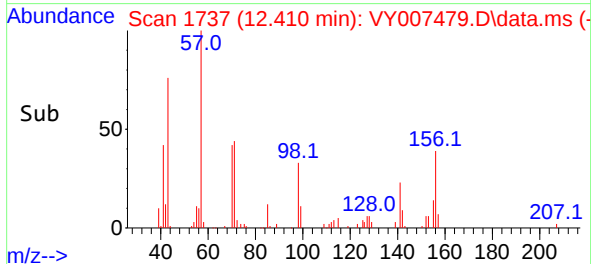
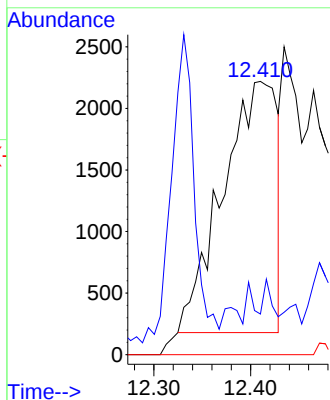
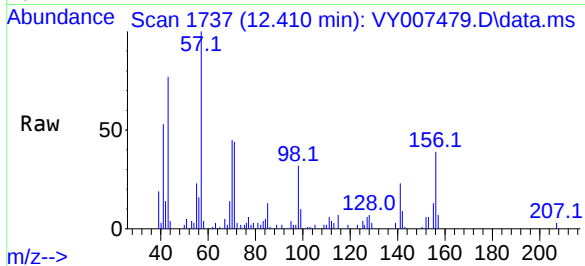




#77
Bromobenzene
Concen: 4.554 ug/l
RT: 12.410 min Scan# 1737
Delta R.T. -0.201 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

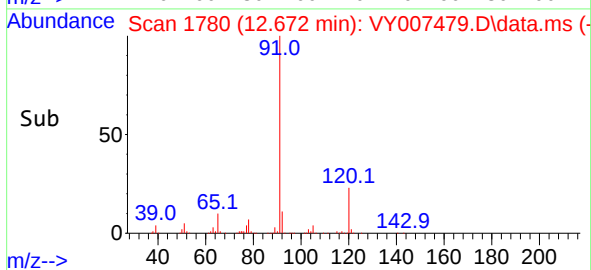
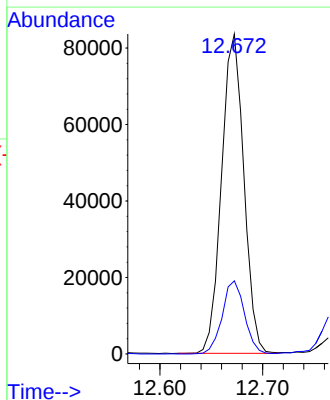
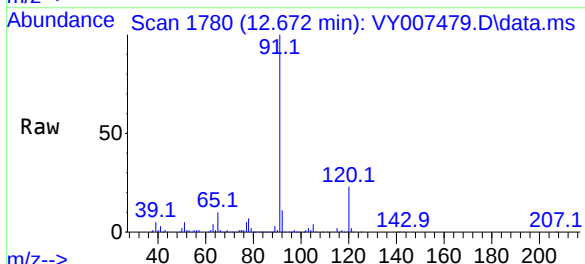
Instrument :
MSVOA_Y
ClientSampleId :

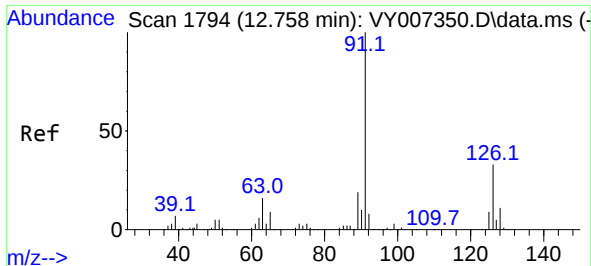
Tgt Ion:156 Resp: 7947
Ion Ratio Lower Upper
156 100
77 0.0 95.5 286.4#
158 0.0 48.0 144.0#



#78
n-propylbenzene
Concen: 12.519 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 91 Resp: 125623
Ion Ratio Lower Upper
91 100
120 23.0 11.3 33.9

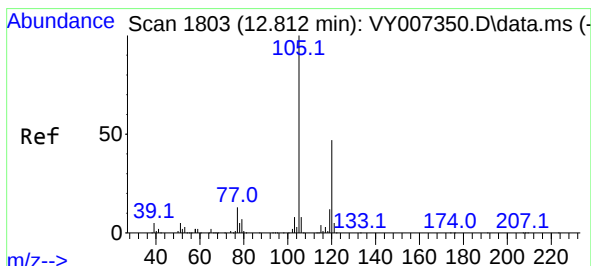
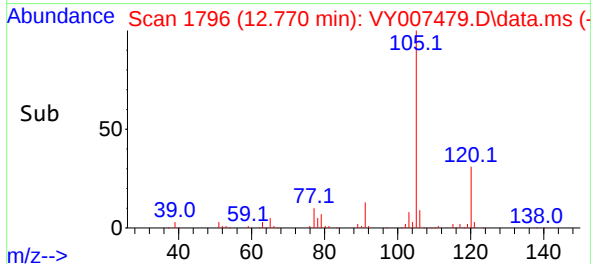
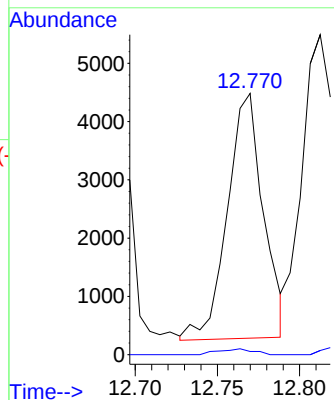
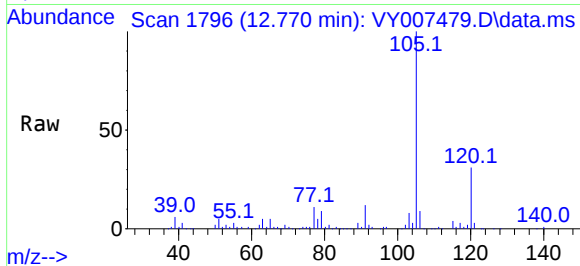




#79
2-Chlorotoluene
Concen: 1.152 ug/l
RT: 12.770 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

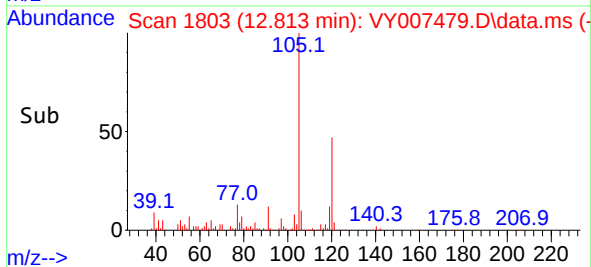
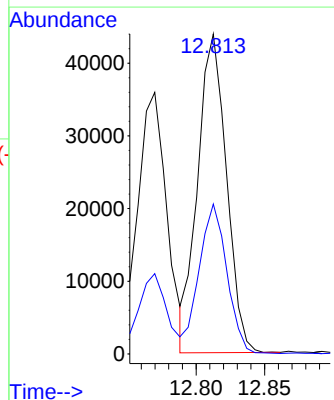
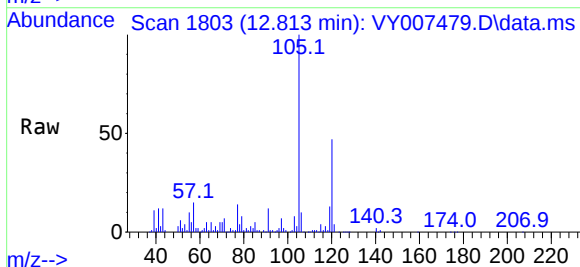
Instrument :
MSVOA_Y
ClientSampleId :

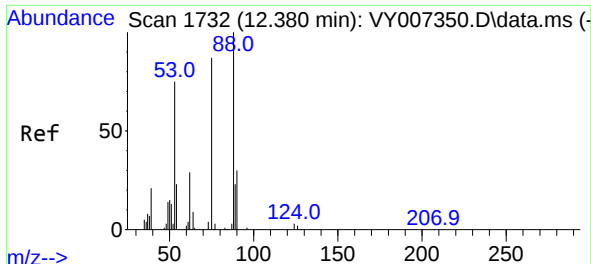
Tgt Ion: 91 Resp: 6402
Ion Ratio Lower Upper
91 100
126 2.3 16.9 50.6#



#80
1,3,5-Trimethylbenzene
Concen: 9.461 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 105 Resp: 63942
Ion Ratio Lower Upper
105 100
120 45.4 24.4 73.4

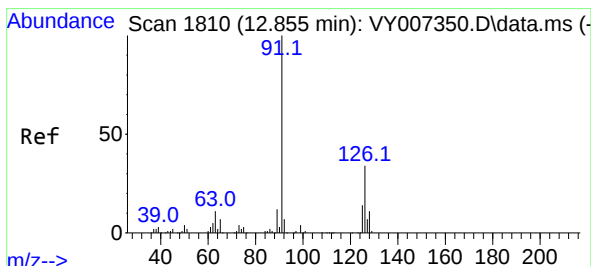
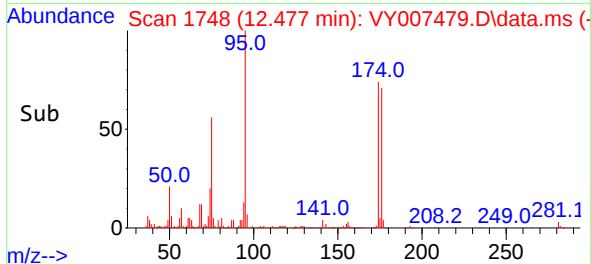
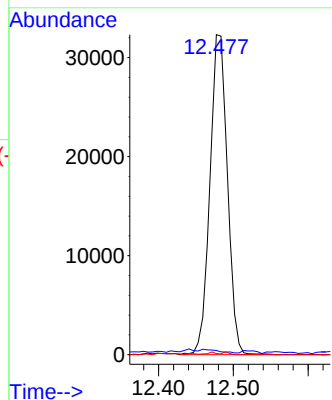
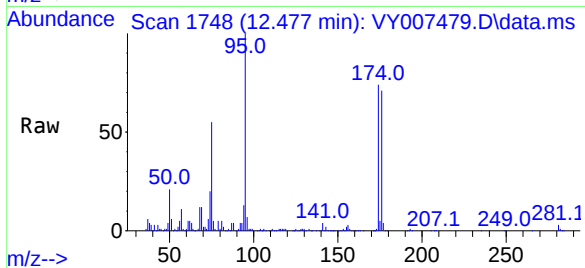




#81
trans-1,4-Dichloro-2-butene
Concen: 97.728 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

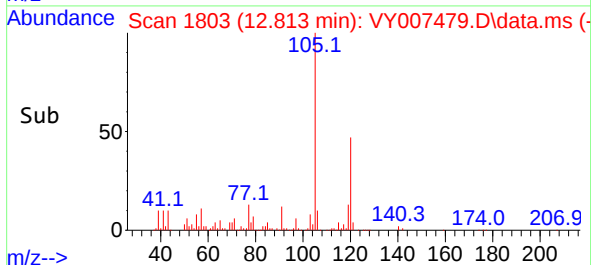
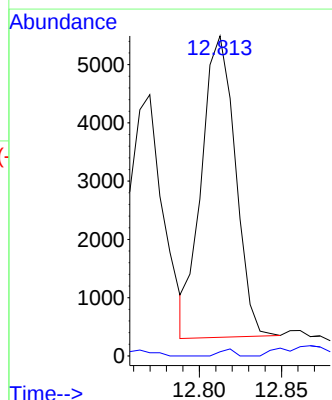
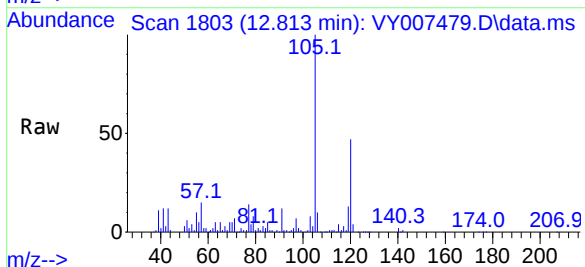
Instrument :
MSVOA_Y
ClientSampleId :

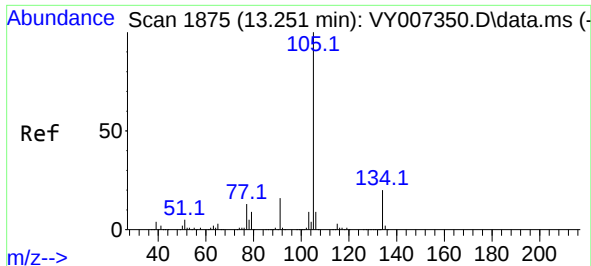
Tgt Ion: 75 Resp: 52568
Ion Ratio Lower Upper
75 100
53 1.0 85.3 127.9#
89 0.5 37.0 55.4#



#82
4-Chlorotoluene
Concen: 1.292 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. -0.043 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 91 Resp: 7373
Ion Ratio Lower Upper
91 100
126 0.9 17.0 51.0#

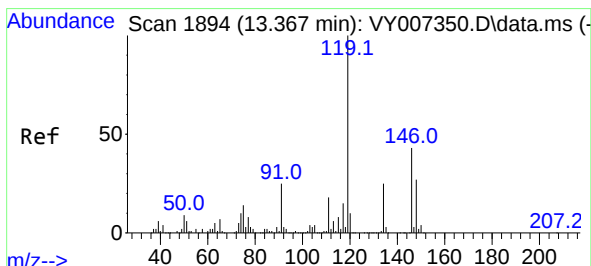
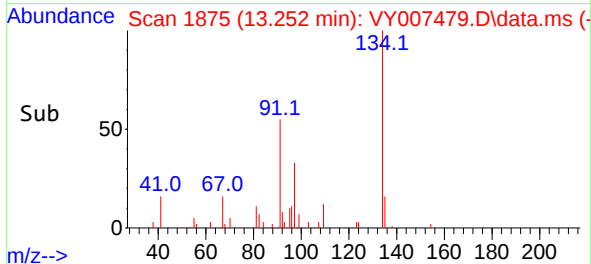
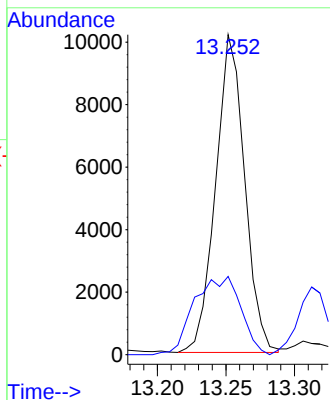
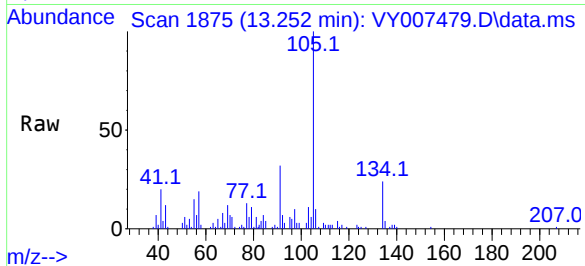




#85
 sec-Butylbenzene
 Concen: 1.697 ug/l
 RT: 13.252 min Scan# 1875
 Delta R.T. 0.000 min
 Lab File: VY007479.D
 Acq: 11 Feb 2022 15:03

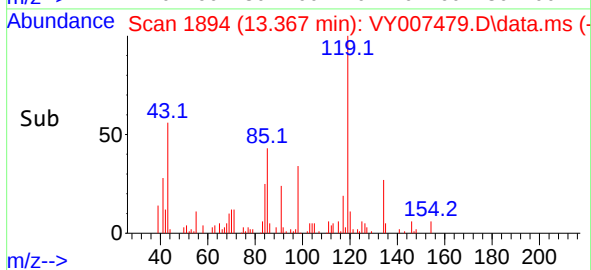
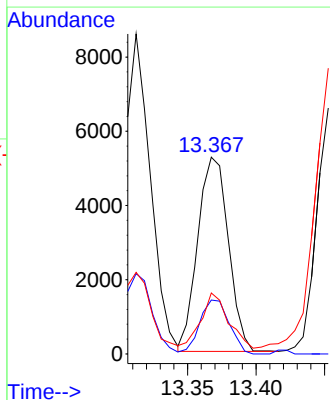
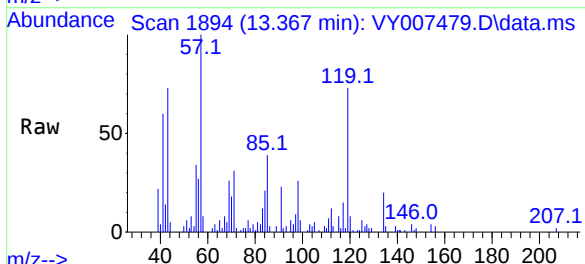
Instrument :
 MSVOA_Y
 ClientSampleId :

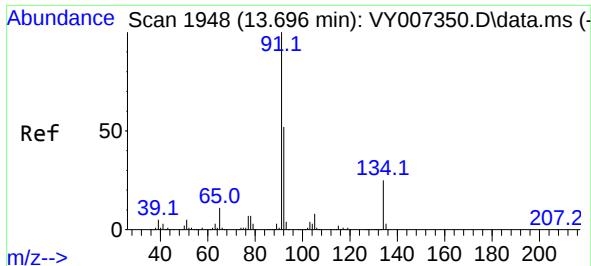
Tgt Ion:105 Resp: 14972
 Ion Ratio Lower Upper
 105 100
 134 39.4 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 1.133 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. 0.000 min
 Lab File: VY007479.D
 Acq: 11 Feb 2022 15:03

Tgt Ion:119 Resp: 8148
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.2 39.5
 91 23.9 12.4 37.2

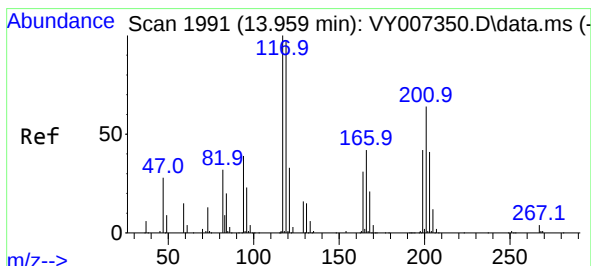
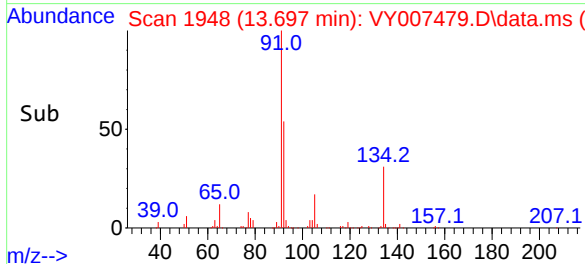
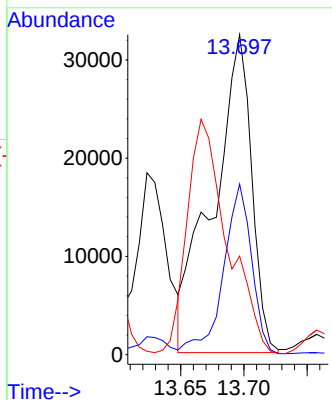
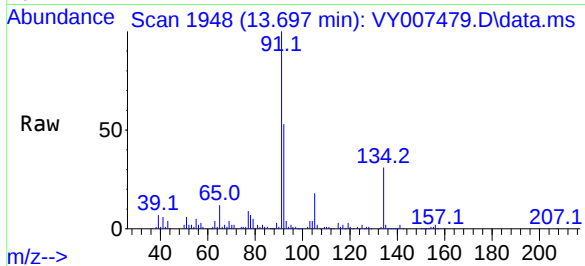




#89
n-Butylbenzene
Concen: 9.911 ug/l
RT: 13.697 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

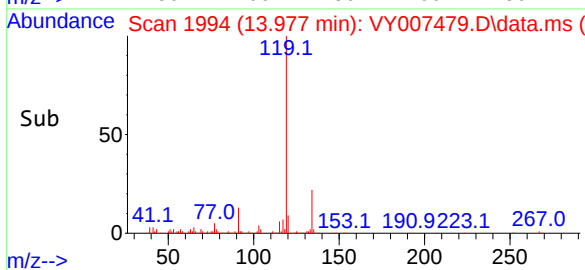
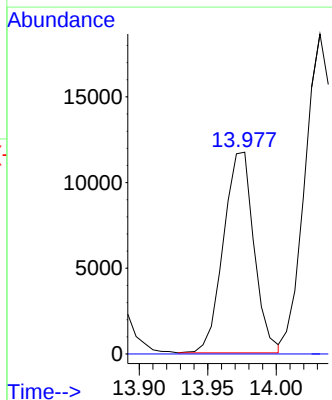
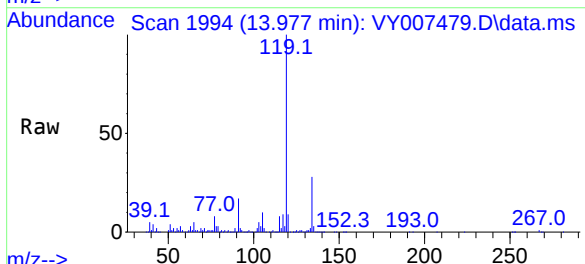
Instrument :
MSVOA_Y
ClientSampleId :

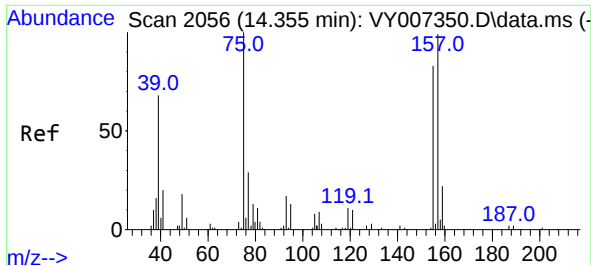
Tgt Ion: 91 Resp: 68574
Ion Ratio Lower Upper
91 100
92 39.0 26.3 78.9
134 0.0 13.0 38.9#



#90
Hexachloroethane
Concen: 13.378 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.018 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

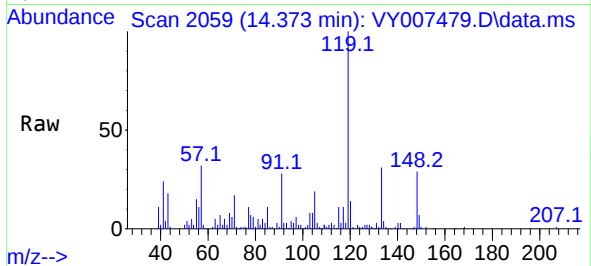
Tgt Ion: 117 Resp: 18175
Ion Ratio Lower Upper
117 100
201 0.0 43.0 128.8#



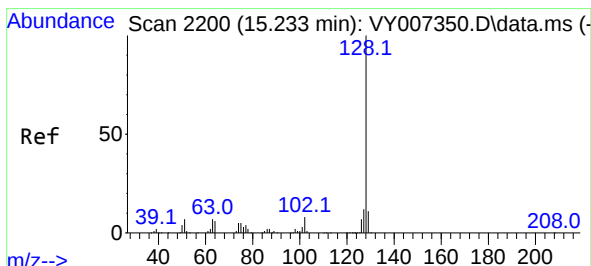
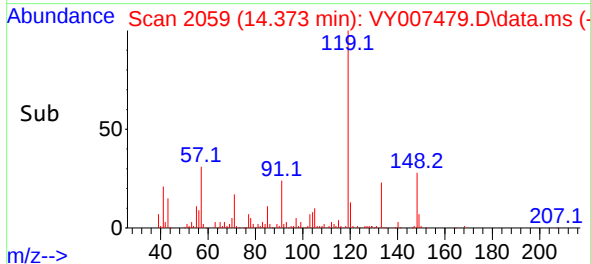
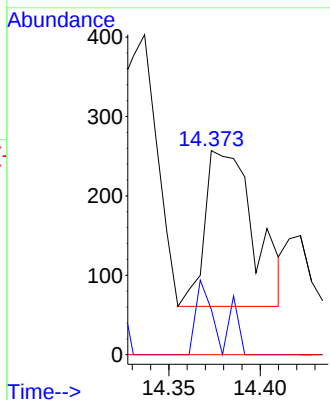


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.481 ug/l
RT: 14.373 min Scan# 2056
Delta R.T. 0.018 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 75 Resp: 364
Ion Ratio Lower Upper
75 100
155 15.1 38.0 113.9#
157 0.0 47.8 143.3#



#95
Naphthalene
Concen: 82.326 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY007479.D
Acq: 11 Feb 2022 15:03

Tgt Ion: 128 Resp: 301737
Ion Ratio Lower Upper
128 100
127 13.4 11.0 16.4
129 11.1 8.4 12.6

