

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081023\
 Data File : VY015027.D
 Acq On : 10 Aug 2023 15:05
 Operator : SY/MD
 Sample : 03956-01
 Misc : 5.26g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

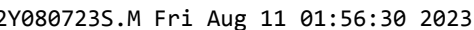
Quant Time: Aug 11 01:56:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080723S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

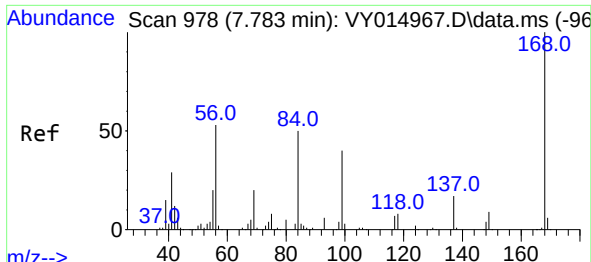
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	114117	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	192390	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	179949	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	85809	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	65440	47.313	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.620%
35) Dibromofluoromethane	7.710	113	59672	48.502	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.000%
50) Toluene-d8	10.179	98	228788	48.857	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.720%
62) 4-Bromofluorobenzene	12.477	95	84838	51.118	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	102.240%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.906	85	27	Below Cal	#	43
3) Chloromethane	2.107	50	990	1.102	ug/l #	87
5) Bromomethane	2.668	94	940	Below Cal		91
11) Tert butyl alcohol	4.930	59	2102	6.297	ug/l	99
16) Acetone	3.948	43	4878	11.310	ug/l	100
20) Methylene Chloride	4.704	84	5457	Below Cal	#	83
25) 2-Butanone	6.978	43	2975	4.816	ug/l #	75
26) 2,2-Dichloropropane	6.966	77	3487	1.737	ug/l #	54
31) Cyclohexane	7.789	56	2510	Below Cal	#	18
36) 1,1-Dichloropropene	7.783	75	9040	5.918	ug/l #	51
38) Carbon Tetrachloride	7.777	117	11384	6.630	ug/l #	16
40) Benzene	8.161	78	28546	6.347	ug/l	99
67) Ethyl Benzene	11.587	91	332655	55.512	ug/l	98
68) m/p-Xylenes	11.697	106	89168	38.897	ug/l	98
69) o-Xylene	12.026	106	45076	20.095	ug/l	94
73) Isopropylbenzene	12.325	105	32153	5.574	ug/l	95
76) 1,2,3-Trichloropropane	12.733	75	2341	2.277	ug/l #	100
77) Bromobenzene	12.392	156	171693	122.712	ug/l #	1
78) n-propylbenzene	12.666	91	23689	3.434	ug/l	99
79) 2-Chlorotoluene	12.764	91	16892	4.296	ug/l #	46
80) 1,3,5-Trimethylbenzene	12.806	105	53532	11.262	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.355	75	2455	5.260	ug/l #	14
82) 4-Chlorotoluene	12.812	91	5535	1.362	ug/l #	40
83) tert-Butylbenzene	13.117	119	26989	6.207	ug/l #	53
84) 1,2,4-Trimethylbenzene	13.117	105	201609	42.333	ug/l	97
85) sec-Butylbenzene	13.117	105	201609	31.590	ug/l #	56
86) p-Isopropyltoluene	13.367	119	17289	3.273	ug/l	94
89) n-Butylbenzene	13.623	91	193445	38.973	ug/l #	44
90) Hexachloroethane	13.971	117	10282	10.023	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.367	75	450	1.635	ug/l #	29
95) Naphthalene	15.233	128	3821284	1004.102	ug/l	99

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

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Response via : Initial Calibration

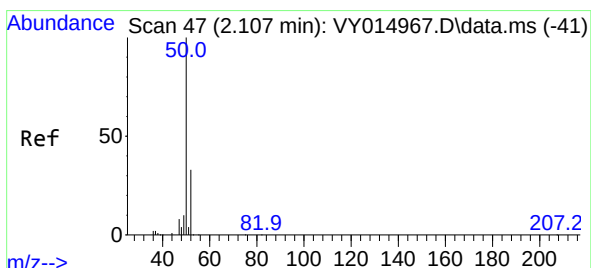
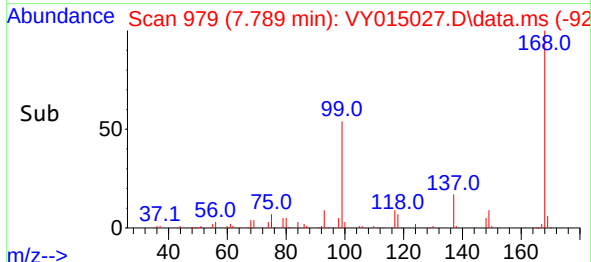
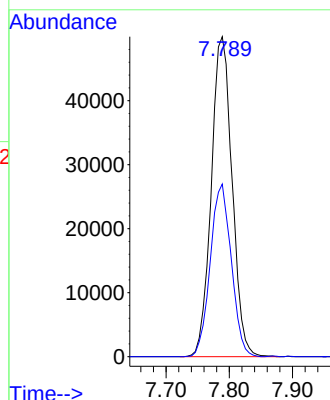
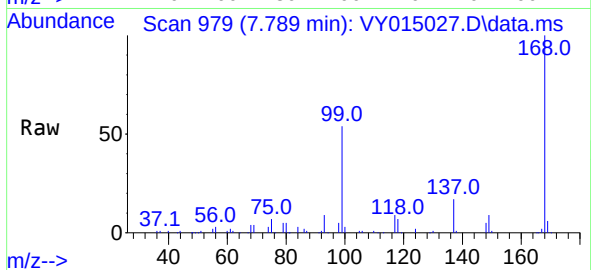




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

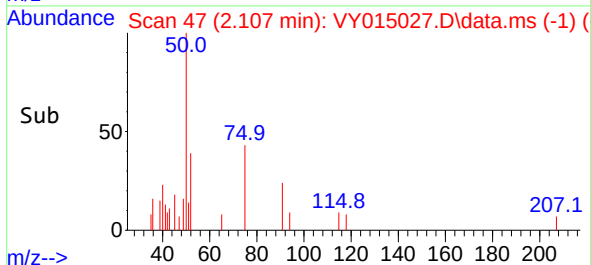
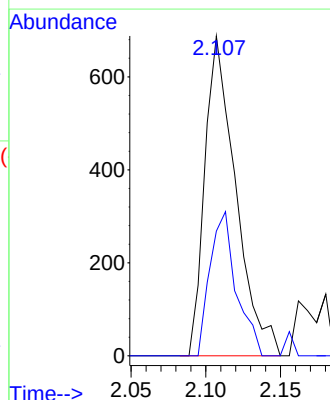
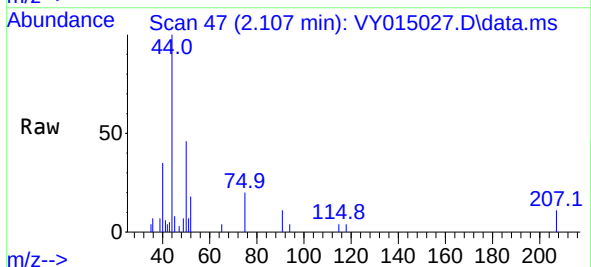
Instrument :
MSVOA_Y
ClientSampleId :

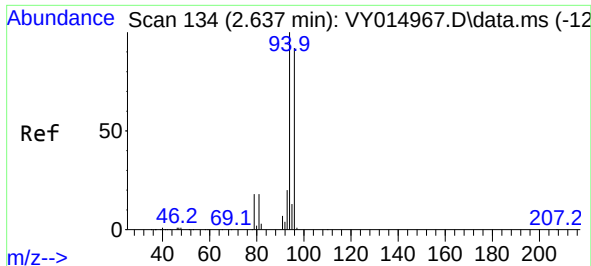
Tgt Ion:168 Resp: 114117
Ion Ratio Lower Upper
168 100
99 54.0 43.4 65.0



#3
Chloromethane
Concen: 1.102 ug/l
RT: 2.107 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 50 Resp: 990
Ion Ratio Lower Upper
50 100
52 39.0 25.4 38.2#

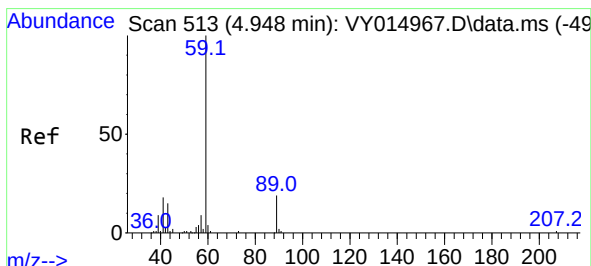
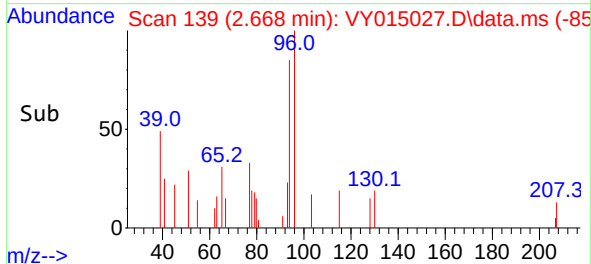
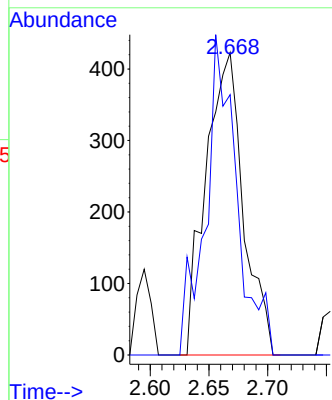
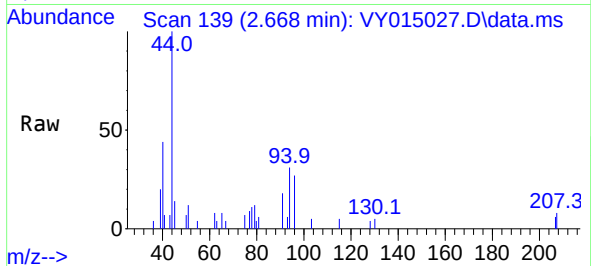




#5
Bromomethane
Concen: Below Cal
RT: 2.668 min Scan# 11
Delta R.T. 0.031 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

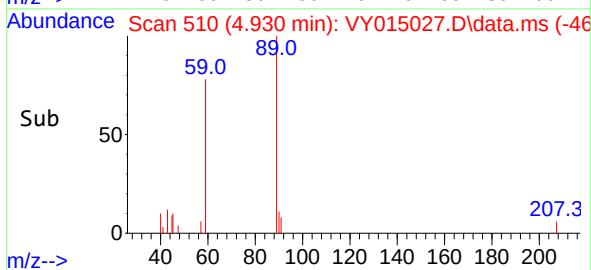
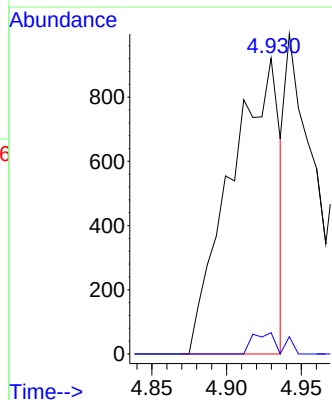
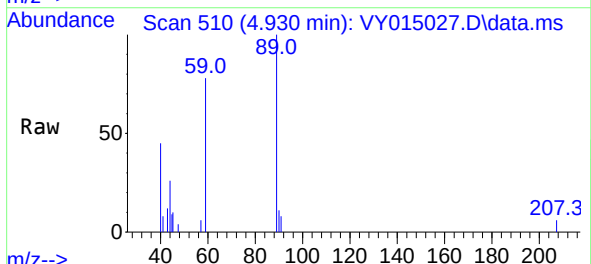
Instrument :
MSVOA_Y
ClientSampleId :

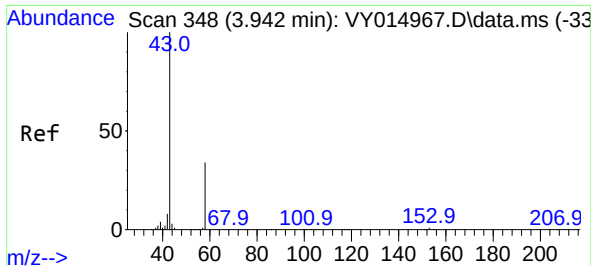
Tgt Ion: 94 Resp: 940
Ion Ratio Lower Upper
94 100
96 86.1 75.8 113.6



#11
Tert butyl alcohol
Concen: 6.297 ug/l
RT: 4.930 min Scan# 510
Delta R.T. -0.018 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 59 Resp: 2102
Ion Ratio Lower Upper
59 100
57 4.1 3.0 4.4

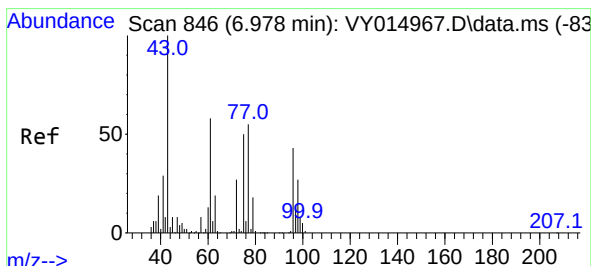
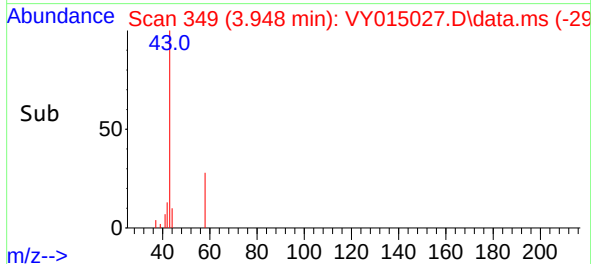
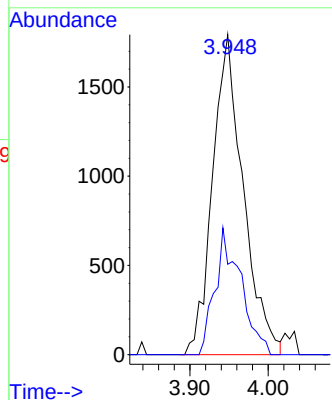
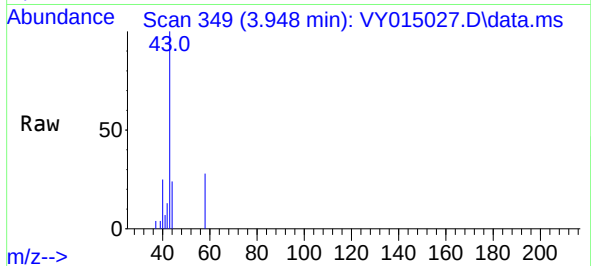




#16
Acetone
Concen: 11.310 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

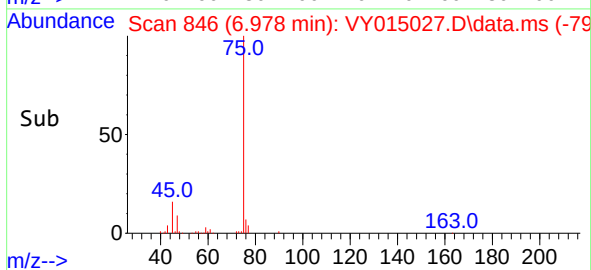
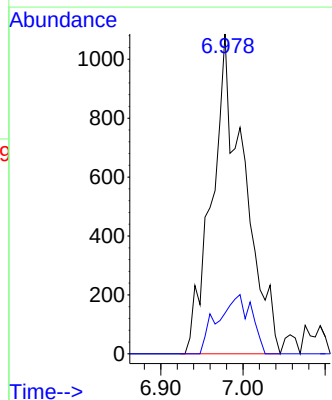
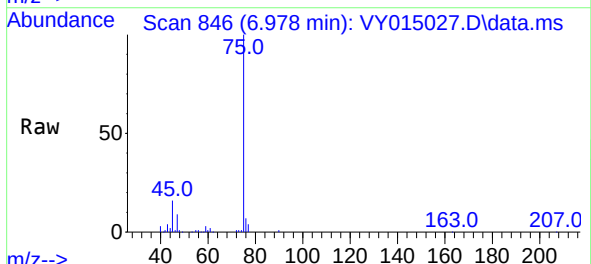
Instrument :
MSVOA_Y
ClientSampleId :

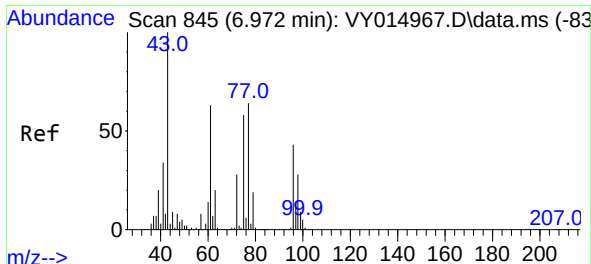
Tgt Ion: 43 Resp: 4878
Ion Ratio Lower Upper
43 100
58 28.2 22.7 34.1



#25
2-Butanone
Concen: 4.816 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 43 Resp: 2975
Ion Ratio Lower Upper
43 100
72 12.7 20.5 30.7#





#26

2,2-Dichloropropane

Concen: 1.737 ug/l

RT: 6.966 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY015027.D

Acq: 10 Aug 2023 15:05

Instrument :

MSVOA_Y

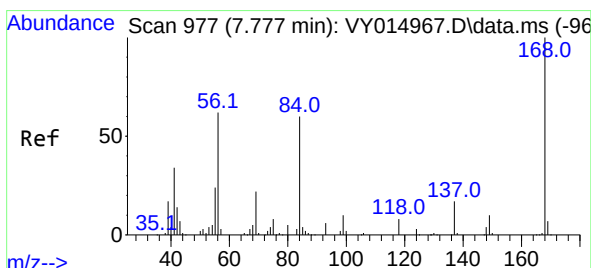
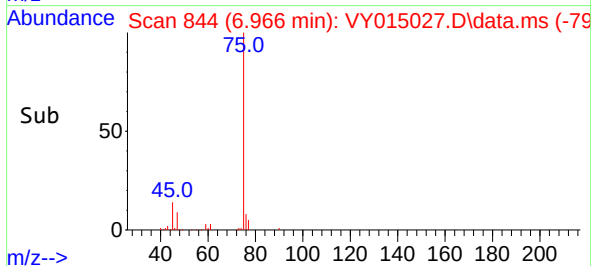
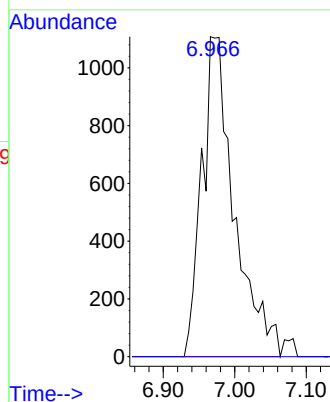
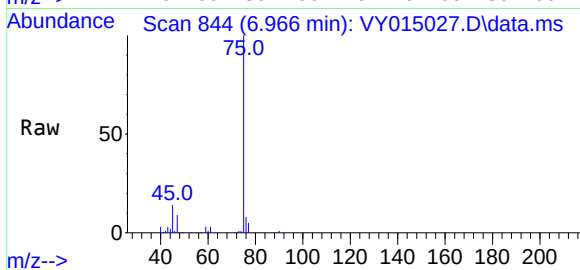
ClientSampleId :

Tgt Ion: 77 Resp: 3487

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#



#31

Cyclohexane

Concen: Below Cal

RT: 7.789 min Scan# 979

Delta R.T. 0.012 min

Lab File: VY015027.D

Acq: 10 Aug 2023 15:05

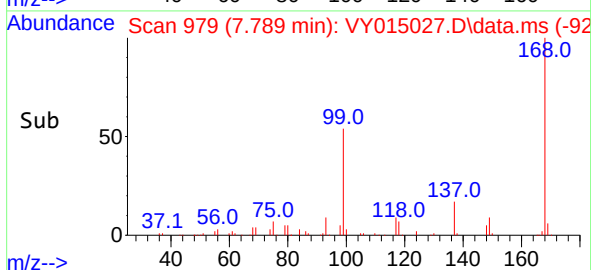
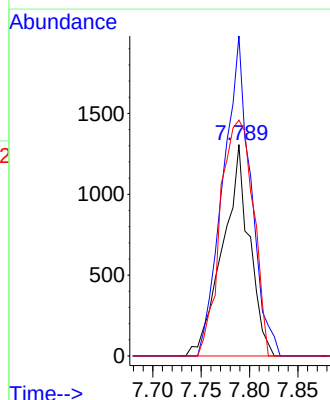
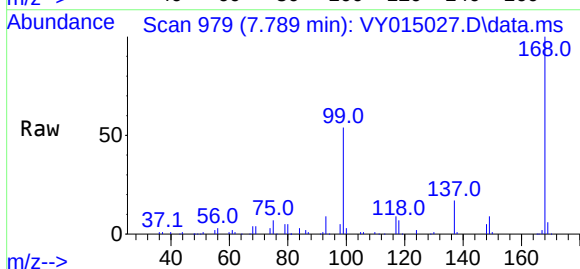
Tgt Ion: 56 Resp: 2510

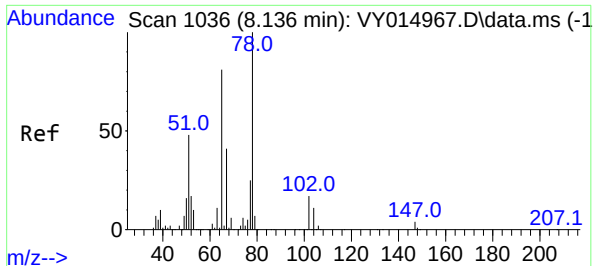
Ion Ratio Lower Upper

56 100

69 151.4 27.8 41.6#

84 111.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 47.313 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015027.D

Acq: 10 Aug 2023 15:05

Instrument :

MSVOA_Y

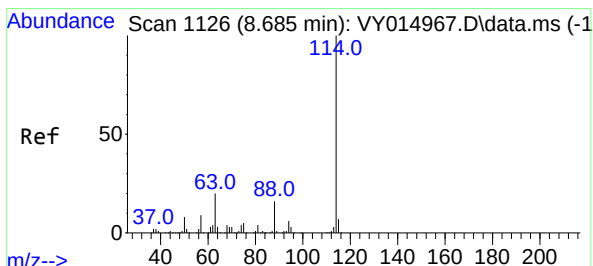
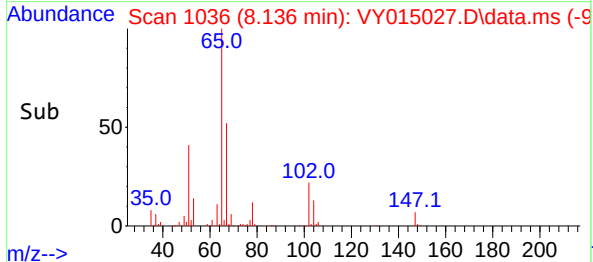
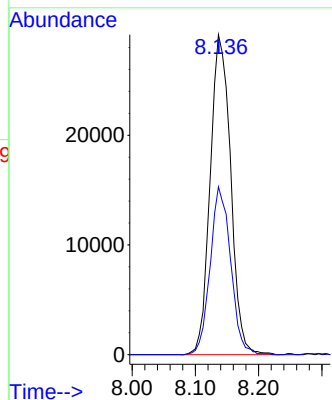
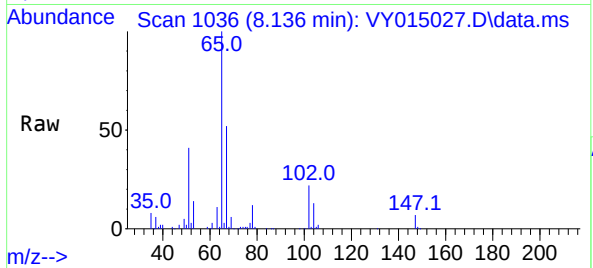
ClientSampleId :

Tgt Ion: 65 Resp: 65440

Ion Ratio Lower Upper

65 100

67 52.6 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY015027.D

Acq: 10 Aug 2023 15:05

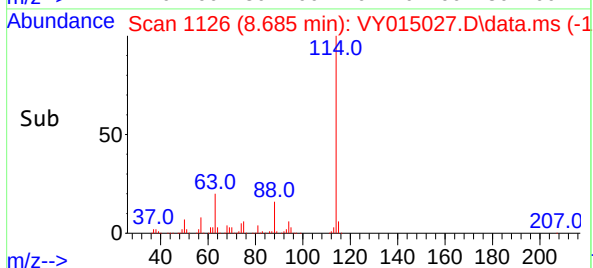
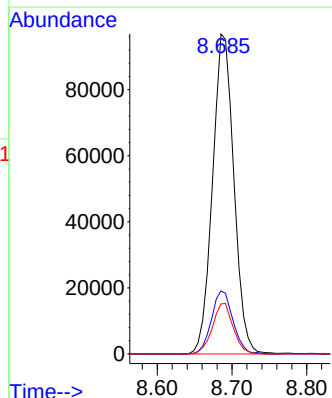
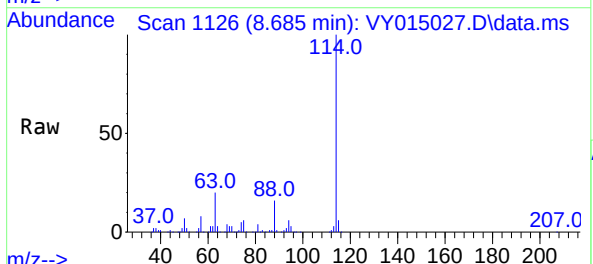
Tgt Ion:114 Resp: 192390

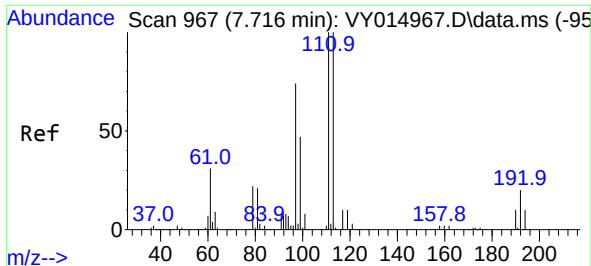
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

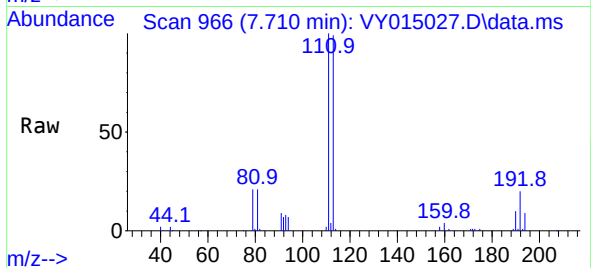
88 15.6 0.0 30.6



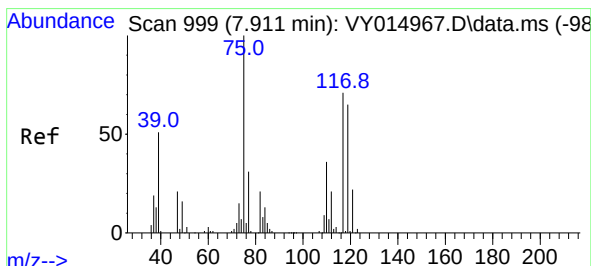
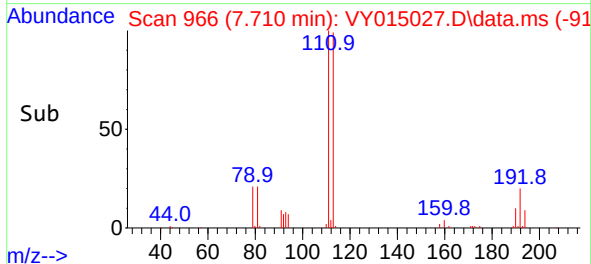
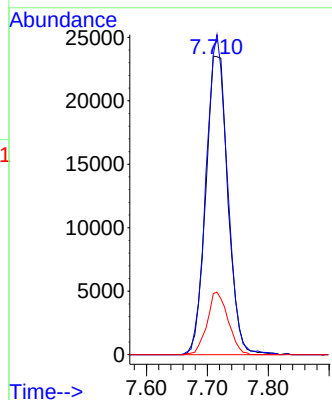


#35
Dibromofluoromethane
Concen: 48.502 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Instrument :
MSVOA_Y
ClientSampleId :

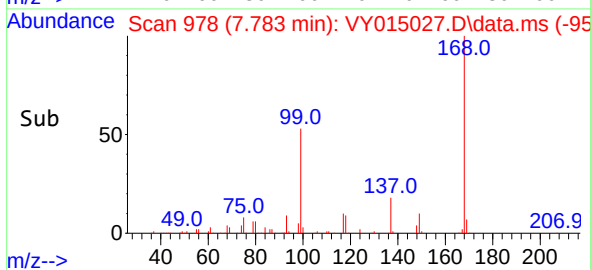
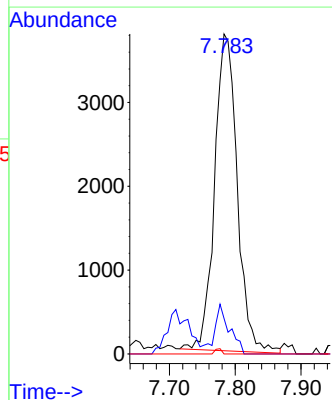
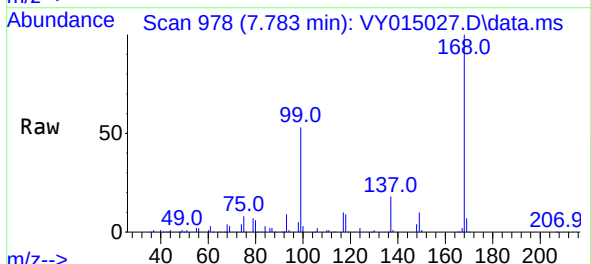


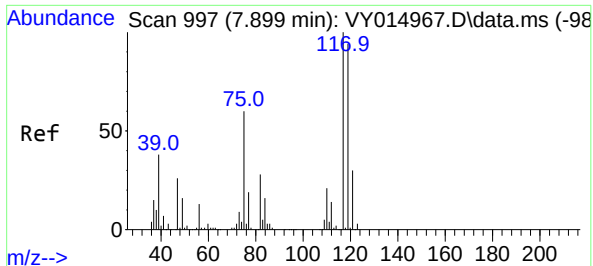
Tgt Ion:113 Resp: 59672
Ion Ratio Lower Upper
113 100
111 102.4 81.3 121.9
192 19.8 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.918 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

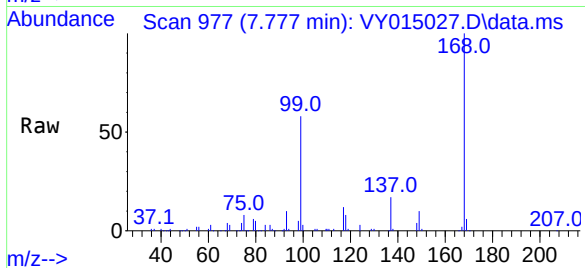
Tgt Ion: 75 Resp: 9040
Ion Ratio Lower Upper
75 100
110 10.1 17.8 53.5#
77 0.0 24.4 36.6#



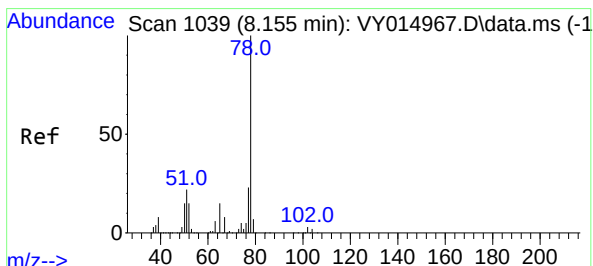
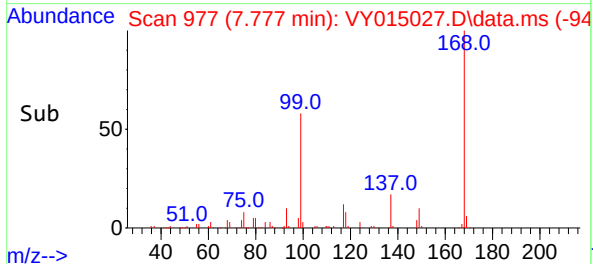
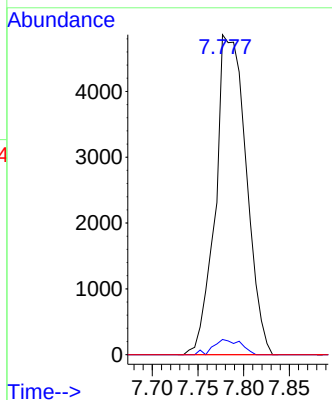


#38
Carbon Tetrachloride
Concen: 6.630 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Instrument :
MSVOA_Y
ClientSampleId :

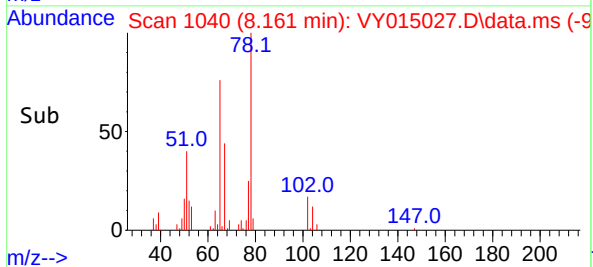
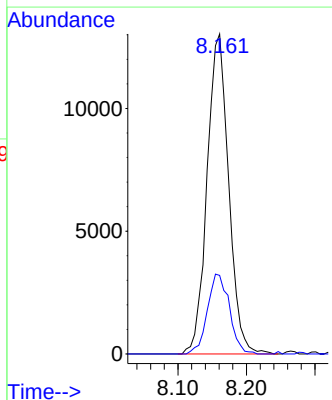
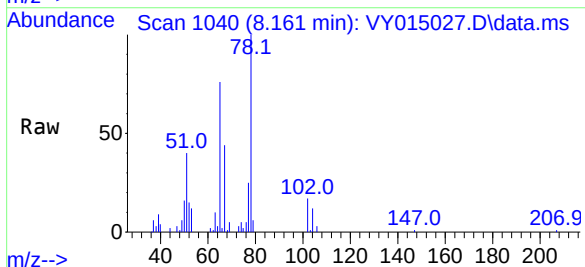


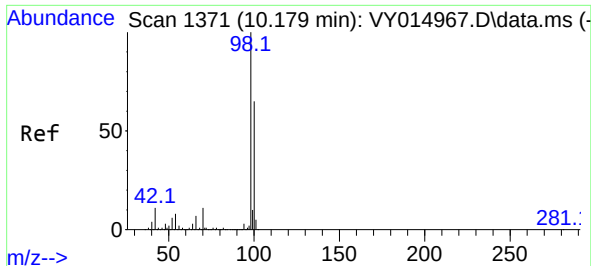
Tgt Ion:117 Resp: 11384
Ion Ratio Lower Upper
117 100
119 4.8 76.4 114.6#
121 0.0 25.8 38.6#



#40
Benzene
Concen: 6.347 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 78 Resp: 28546
Ion Ratio Lower Upper
78 100
77 24.5 19.0 28.6

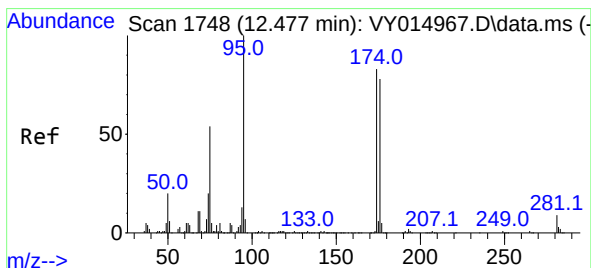
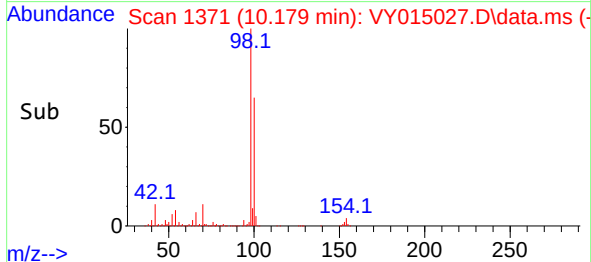
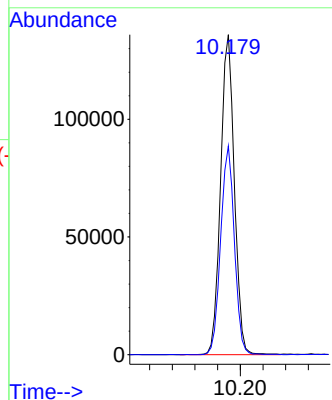
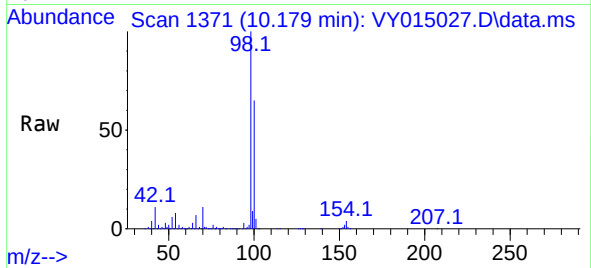




#50
Toluene-d8
Concen: 48.857 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

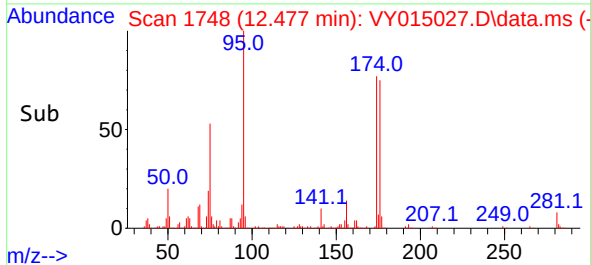
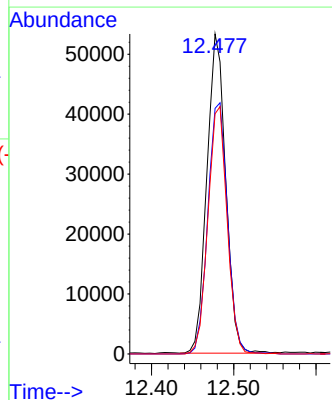
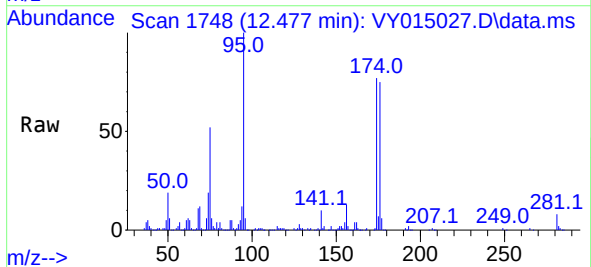
Instrument :
MSVOA_Y
ClientSampleId :

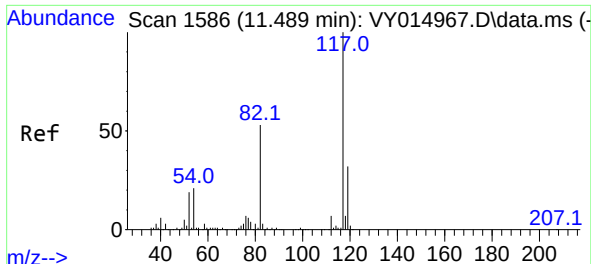
Tgt Ion: 98 Resp: 228788
Ion Ratio Lower Upper
98 100
100 65.2 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 51.118 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

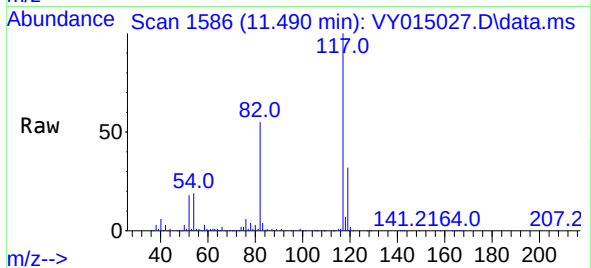
Tgt Ion: 95 Resp: 84838
Ion Ratio Lower Upper
95 100
174 82.3 0.0 178.2
176 78.7 0.0 173.8



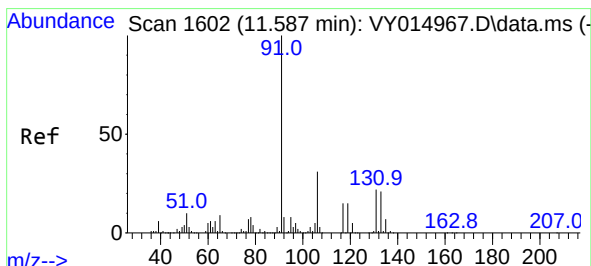
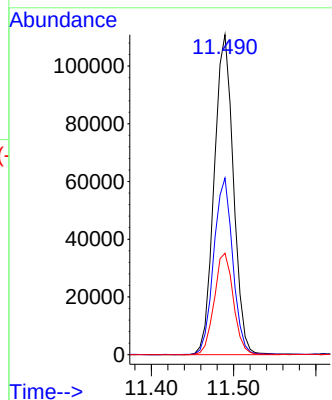
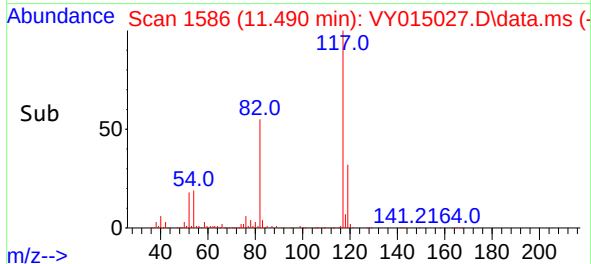


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Instrument :
MSVOA_Y
ClientSampleId :

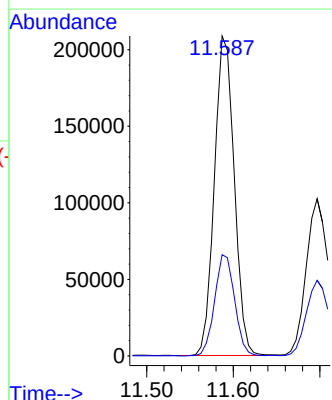
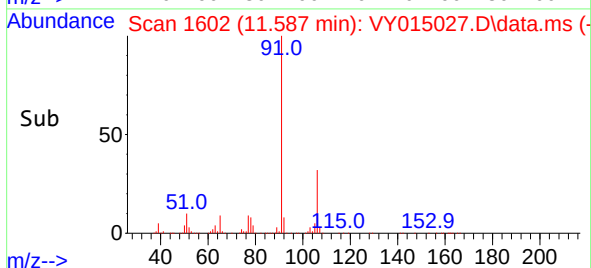
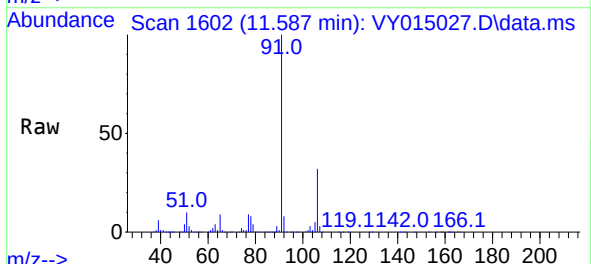


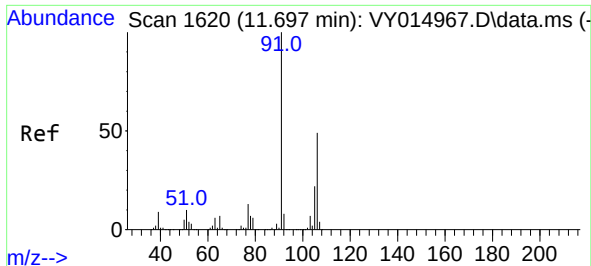
Tgt Ion:117 Resp: 179949
Ion Ratio Lower Upper
117 100
82 55.1 43.4 65.0
119 31.7 26.3 39.5



#67
Ethyl Benzene
Concen: 55.512 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 91 Resp: 332655
Ion Ratio Lower Upper
91 100
106 31.7 24.6 36.8

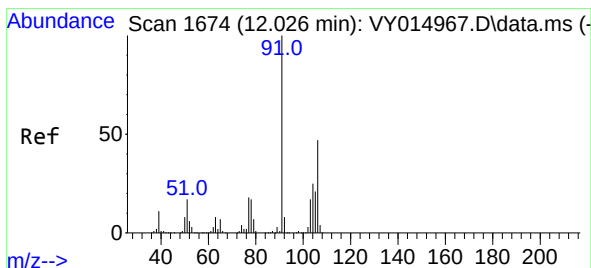
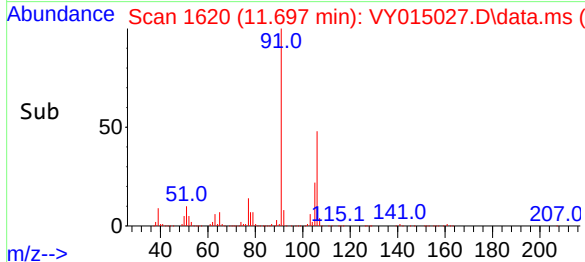
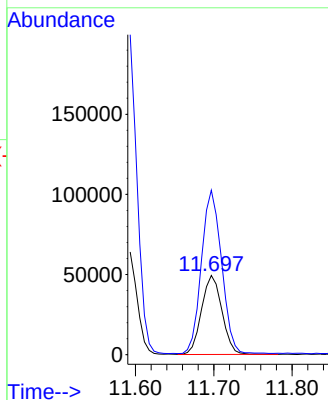
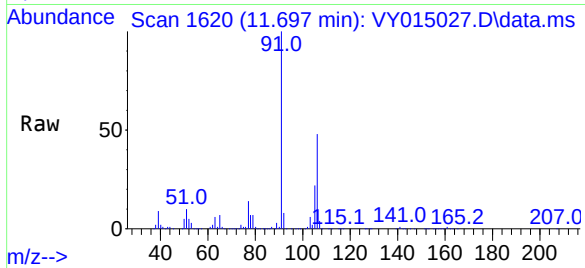




#68
m/p-Xylenes
Concen: 38.897 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

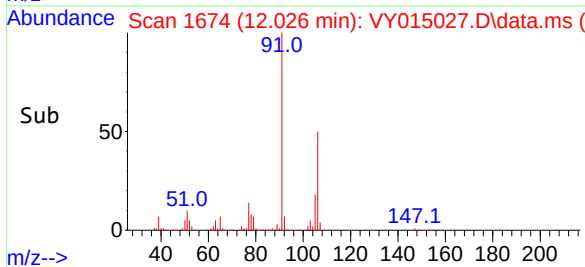
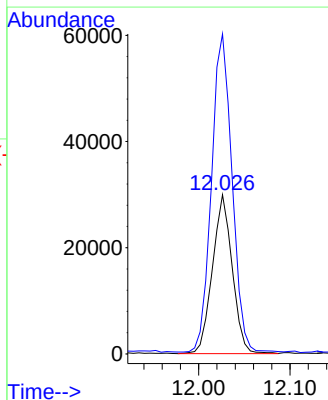
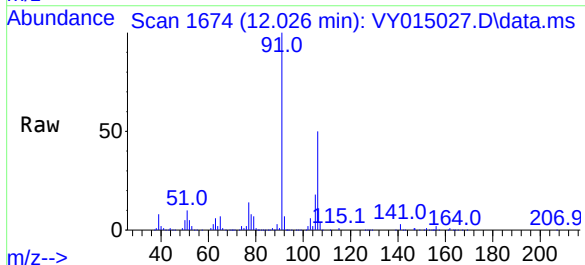
Instrument :
MSVOA_Y
ClientSampleId :

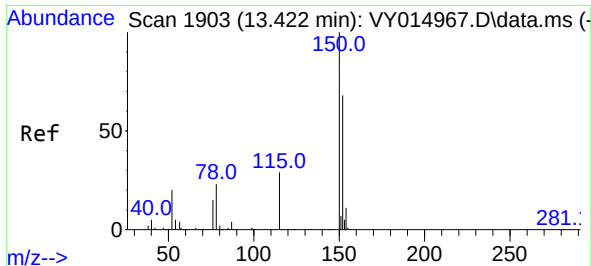
Tgt Ion:106 Resp: 89168
Ion Ratio Lower Upper
106 100
91 204.4 166.1 249.1



#69
o-Xylene
Concen: 20.095 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

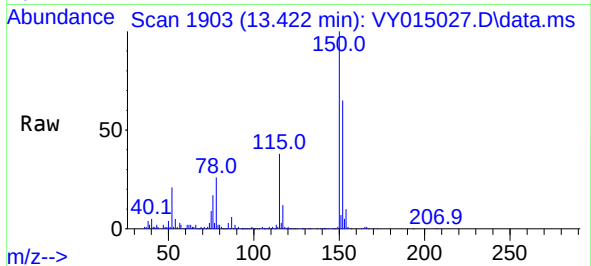
Tgt Ion:106 Resp: 45076
Ion Ratio Lower Upper
106 100
91 206.9 108.1 324.3



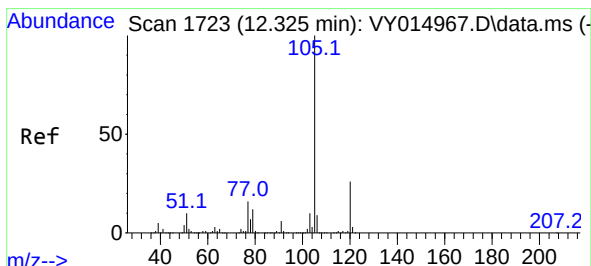
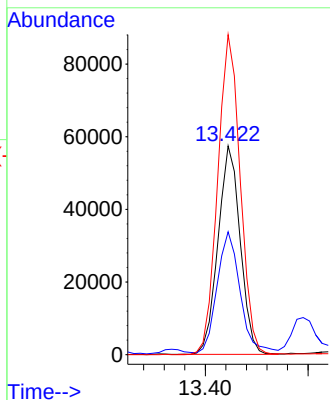
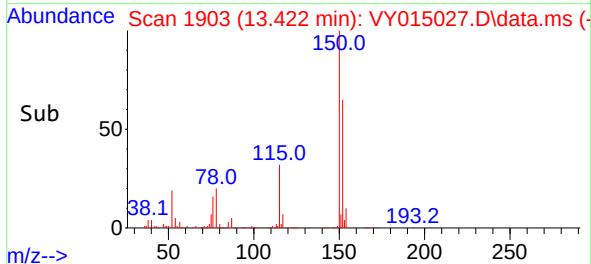


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

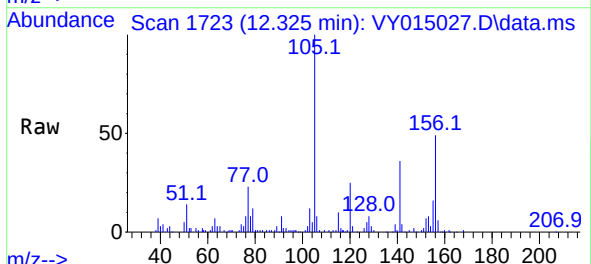
Instrument :
MSVOA_Y
ClientSampleId :



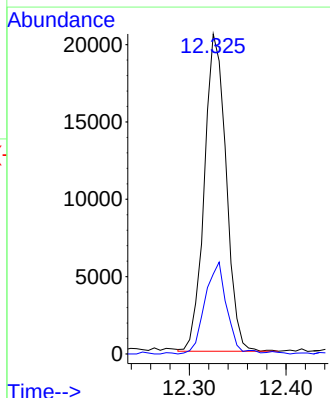
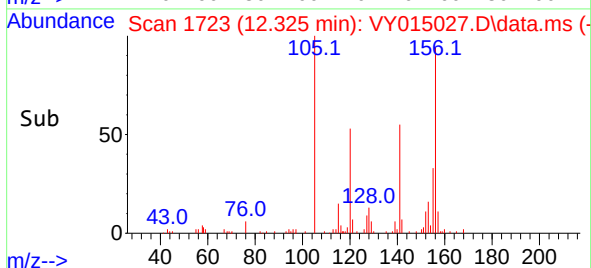
Tgt Ion:152 Resp: 85809
Ion Ratio Lower Upper
152 100
115 59.6 28.8 86.5
150 156.4 0.0 348.8

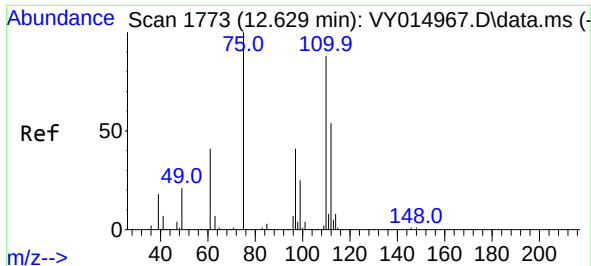


#73
Isopropylbenzene
Concen: 5.574 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05



Tgt Ion:105 Resp: 32153
Ion Ratio Lower Upper
105 100
120 29.0 13.3 39.9

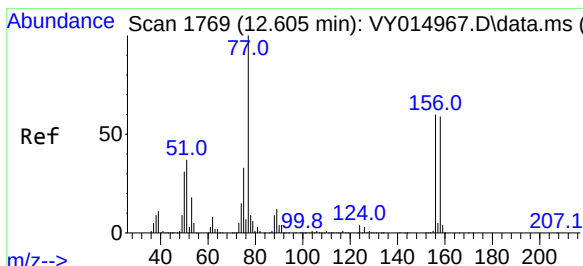
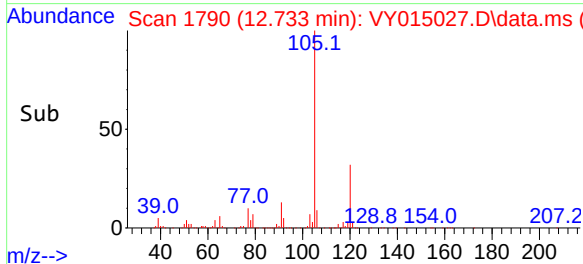
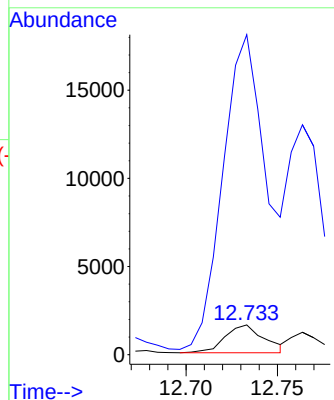
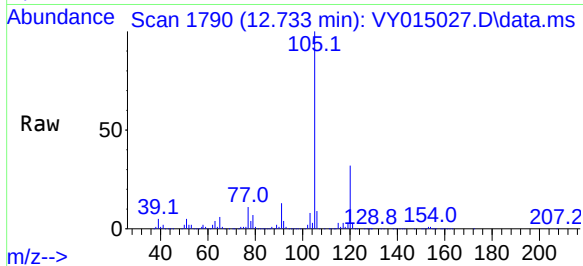




#76
1,2,3-Trichloropropane
Concen: 2.277 ug/l
RT: 12.733 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

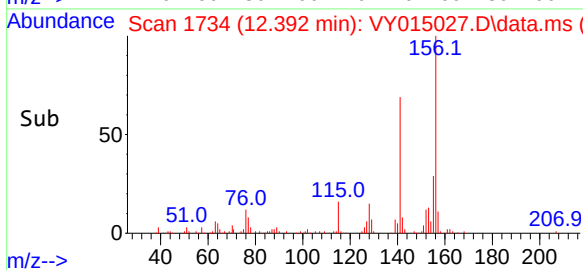
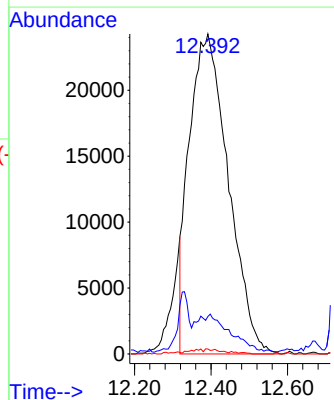
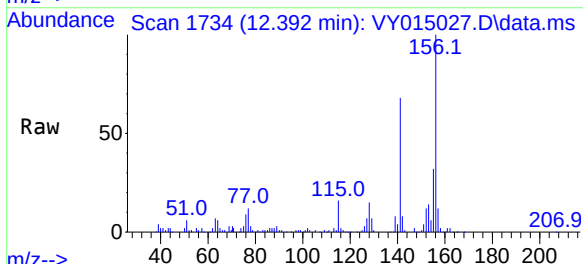
Instrument :
MSVOA_Y
ClientSampleId :

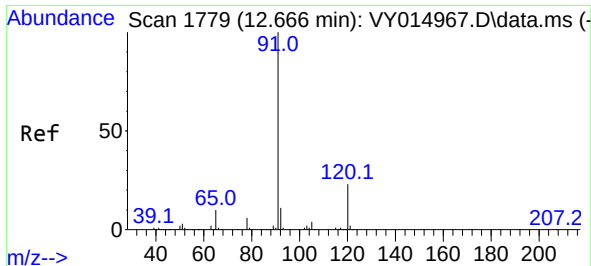
Tgt Ion: 75 Resp: 2341
Ion Ratio Lower Upper
75 100
77 1271.0 0.0 0.0#



#77
Bromobenzene
Concen: 122.712 ug/l
RT: 12.392 min Scan# 1734
Delta R.T. -0.213 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion:156 Resp: 171693
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.4 48.4 145.3#

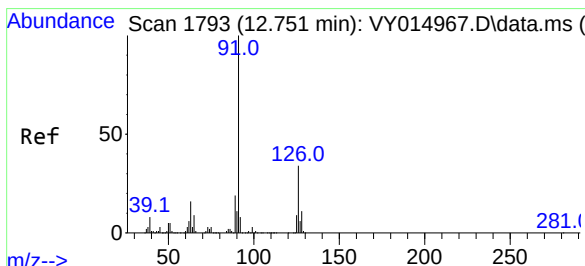
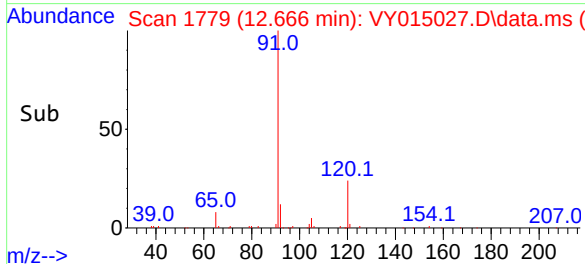
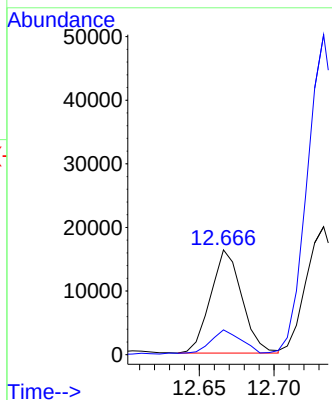
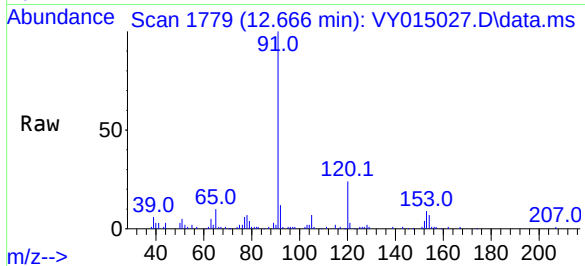




#78
n-propylbenzene
Concen: 3.434 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

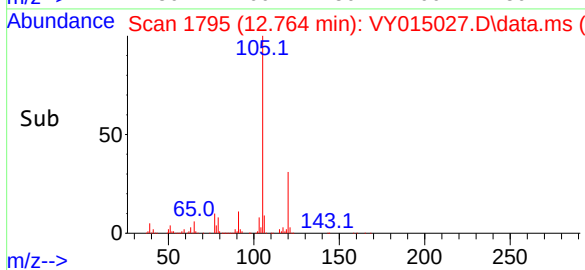
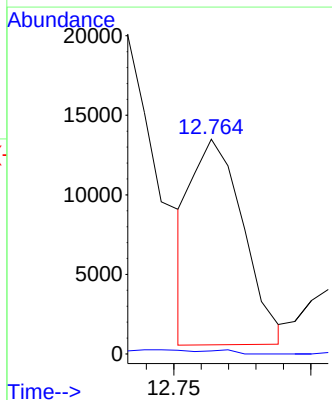
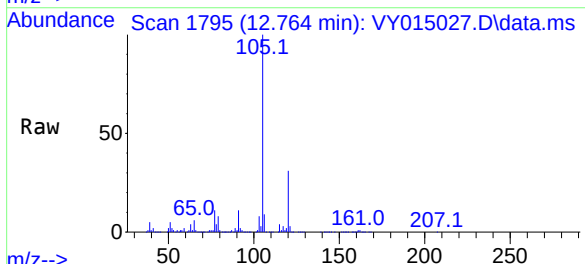
Instrument :
MSVOA_Y
ClientSampleId :

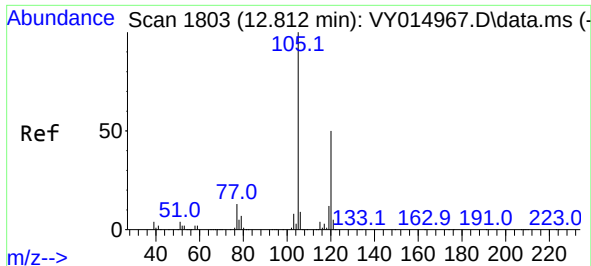
Tgt Ion: 91 Resp: 23689
Ion Ratio Lower Upper
91 100
120 23.5 11.5 34.4



#79
2-Chlorotoluene
Concen: 4.296 ug/l
RT: 12.764 min Scan# 1795
Delta R.T. 0.012 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 91 Resp: 16892
Ion Ratio Lower Upper
91 100
126 3.4 17.3 51.7#

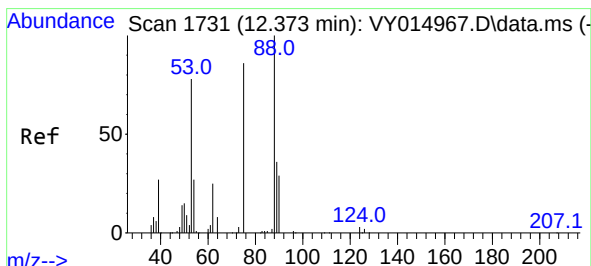
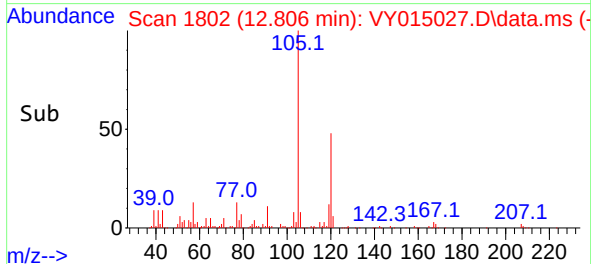
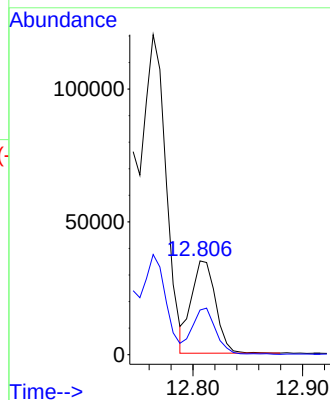
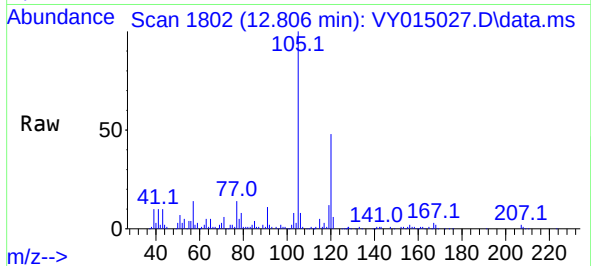




#80
1,3,5-Trimethylbenzene
Concen: 11.262 ug/l
RT: 12.806 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

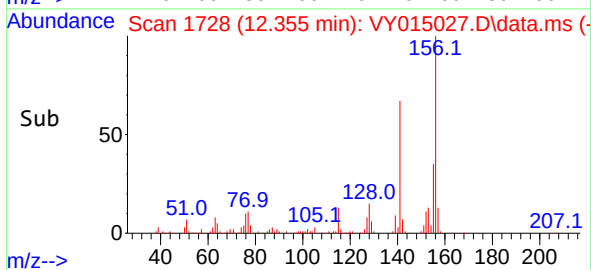
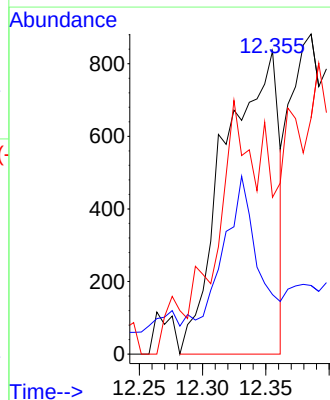
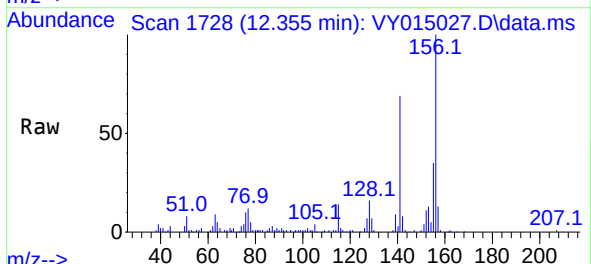
Instrument :
MSVOA_Y
ClientSampleId :

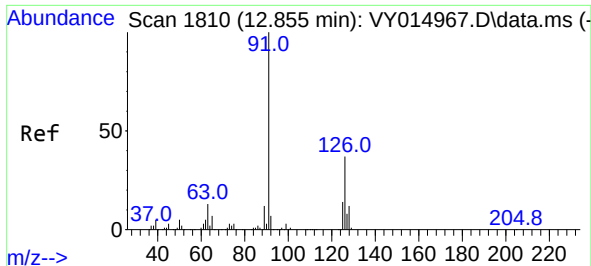
Tgt Ion:105 Resp: 53532
Ion Ratio Lower Upper
105 100
120 47.4 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 5.260 ug/l
RT: 12.355 min Scan# 1728
Delta R.T. -0.018 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 75 Resp: 2455
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 7.6 37.4 56.0#

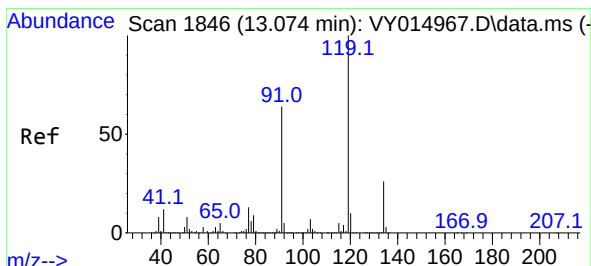
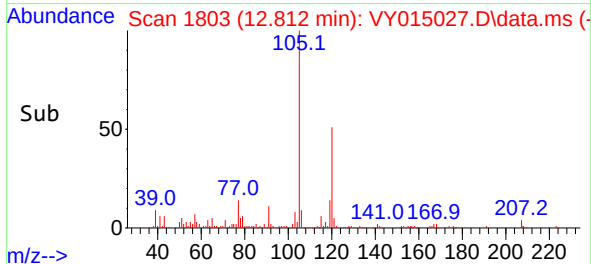
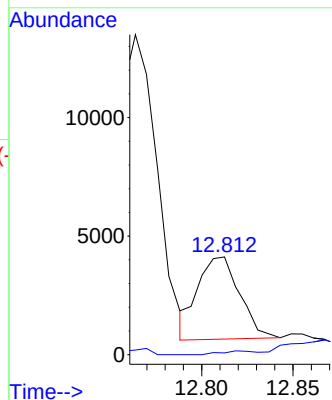
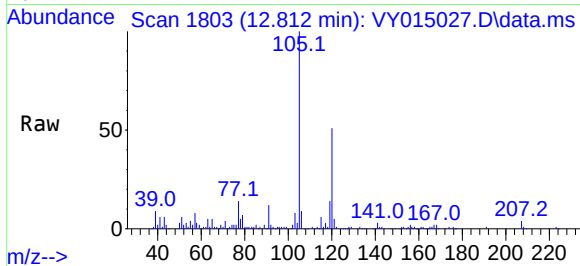




#82
4-Chlorotoluene
Concen: 1.362 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.043 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

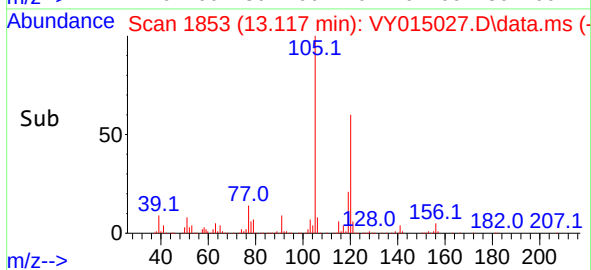
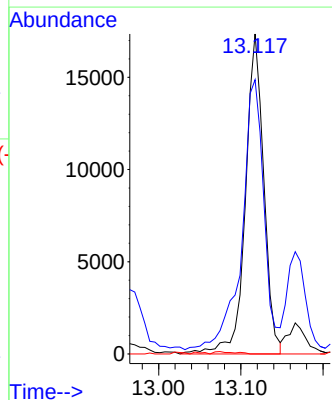
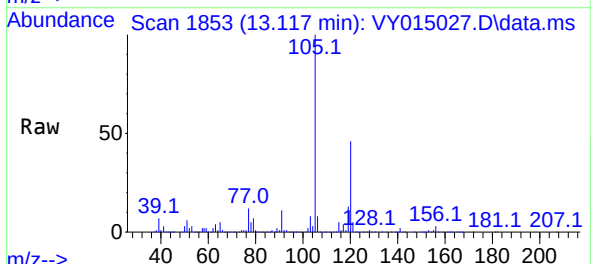
Instrument :
MSVOA_Y
ClientSampleId :

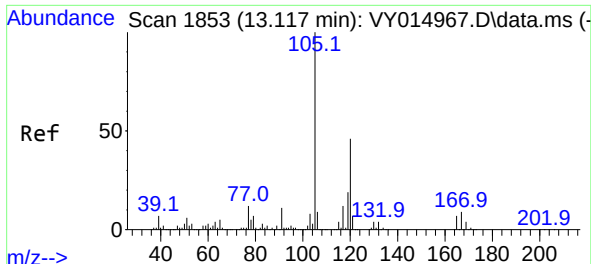
Tgt Ion: 91 Resp: 5535
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 6.207 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.043 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 119 Resp: 26989
Ion Ratio Lower Upper
119 100
91 101.3 32.9 98.6#
134 0.0 13.0 38.9#

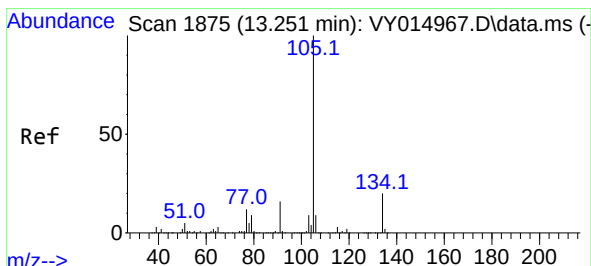
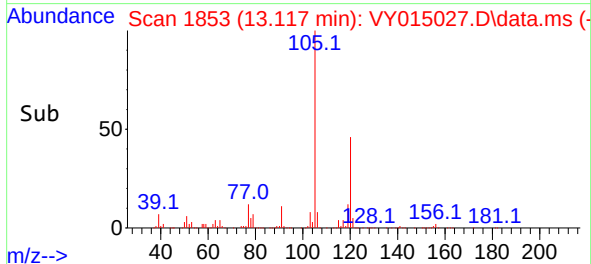
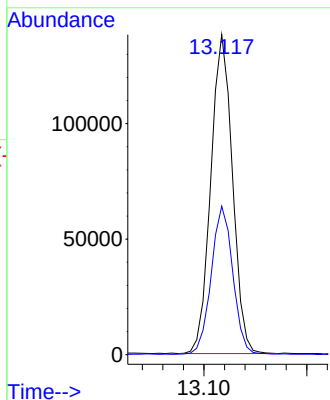
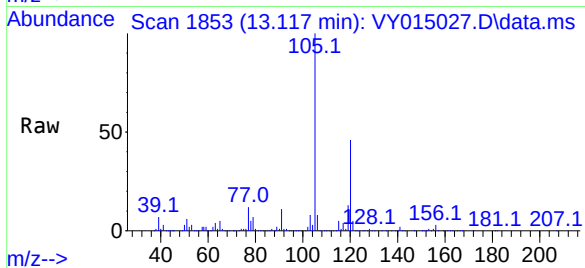




#84
1,2,4-Trimethylbenzene
Concen: 42.333 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

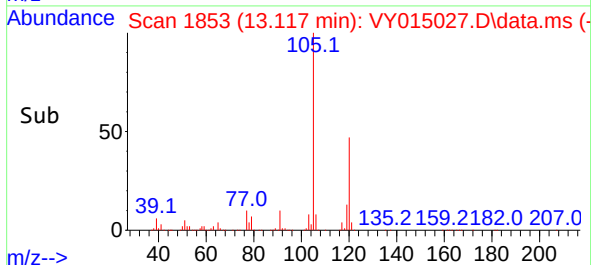
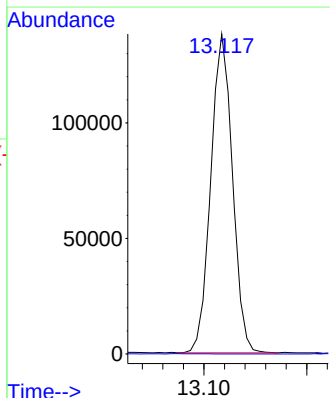
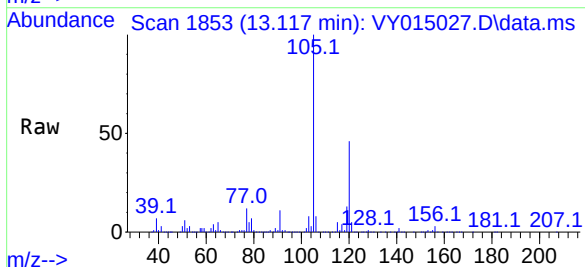
Instrument :
MSVOA_Y
ClientSampleId :

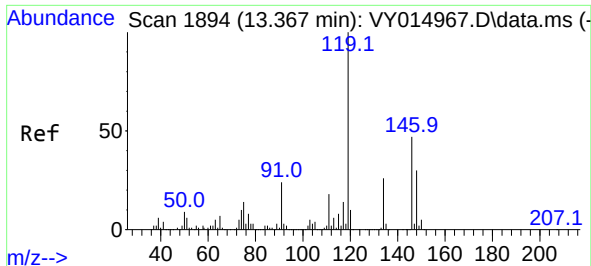
Tgt Ion:105 Resp: 201609
Ion Ratio Lower Upper
105 100
120 46.2 22.2 66.6



#85
sec-Butylbenzene
Concen: 31.590 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.134 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

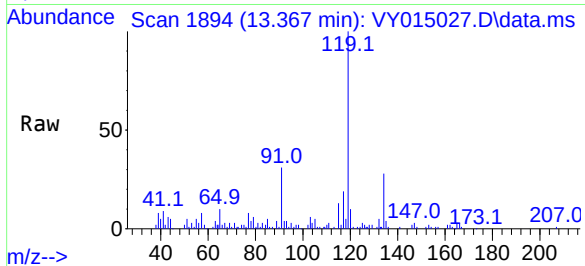
Tgt Ion:105 Resp: 201609
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.6#



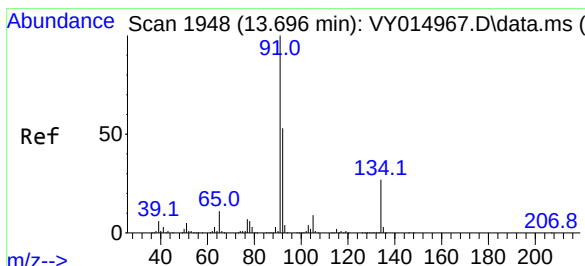
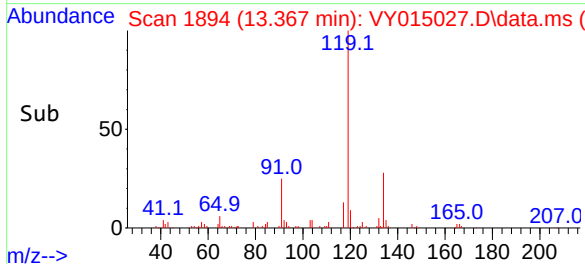
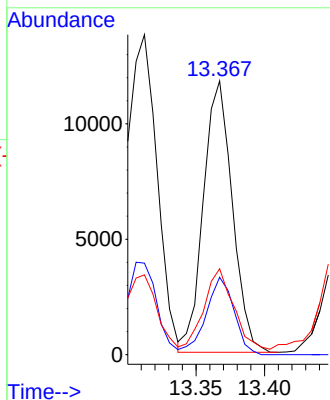


#86
p-Isopropyltoluene
Concen: 3.273 ug/l
RT: 13.367 min Scan# 119
Delta R.T. 0.000 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Instrument :
MSVOA_Y
ClientSampleId :

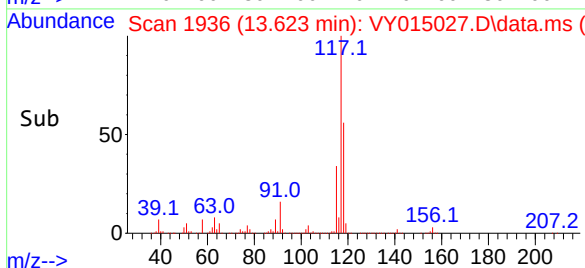
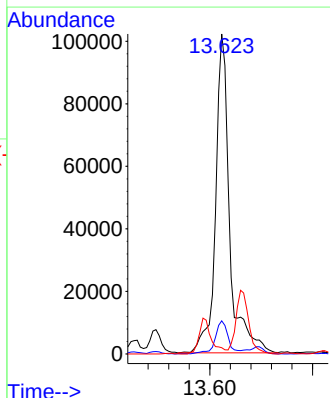
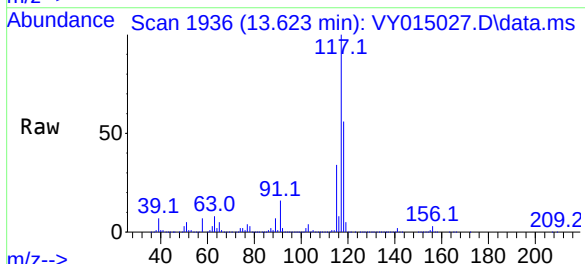


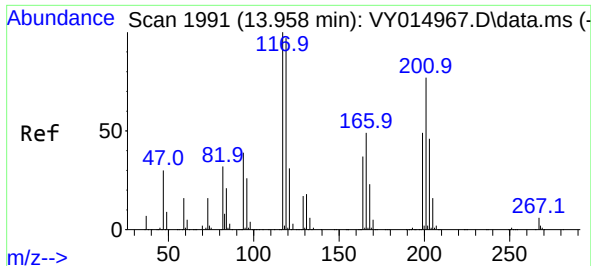
Tgt Ion:119 Resp: 17289
Ion Ratio Lower Upper
119 100
134 27.7 13.3 39.8
91 29.8 12.4 37.4



#89
n-Butylbenzene
Concen: 38.973 ug/l
RT: 13.623 min Scan# 1936
Delta R.T. -0.073 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 91 Resp: 193445
Ion Ratio Lower Upper
91 100
92 9.8 25.4 76.0#
134 0.0 12.6 37.6#

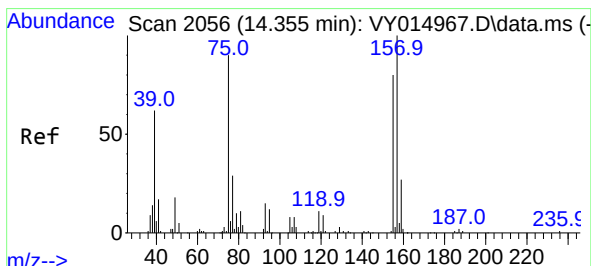
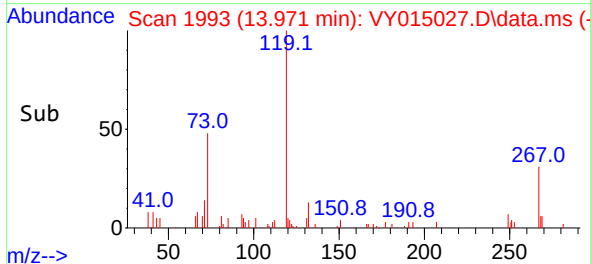
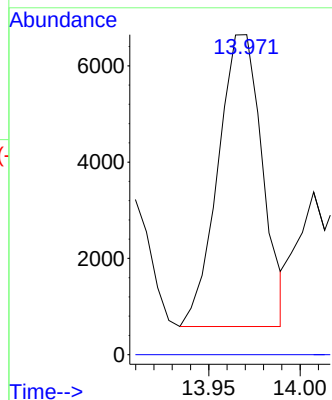
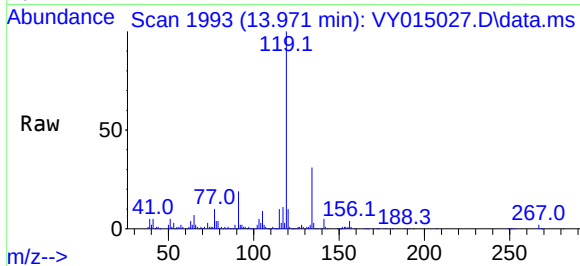




#90
Hexachloroethane
Concen: 10.023 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

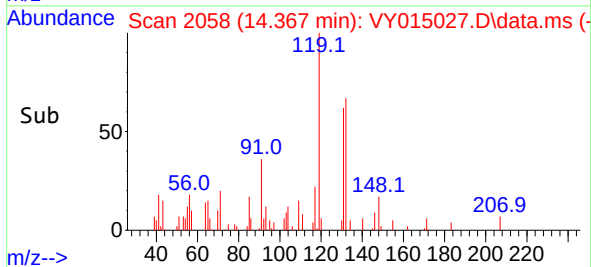
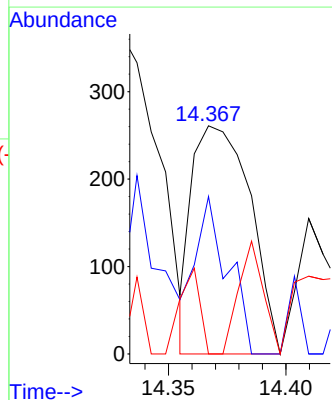
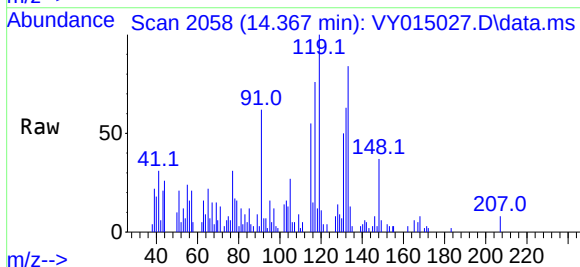
Instrument :
MSVOA_Y
ClientSampleId :

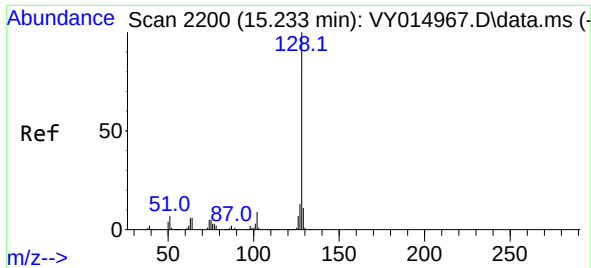
Tgt Ion:117 Resp: 10282
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.635 ug/l
RT: 14.367 min Scan# 2058
Delta R.T. 0.012 min
Lab File: VY015027.D
Acq: 10 Aug 2023 15:05

Tgt Ion: 75 Resp: 450
Ion Ratio Lower Upper
75 100
155 38.4 41.5 124.6#
157 13.1 51.8 155.5#





#95

Naphthalene

Concen: 1004.102 ug/l

RT: 15.233 min Scan# 21

Delta R.T. 0.000 min

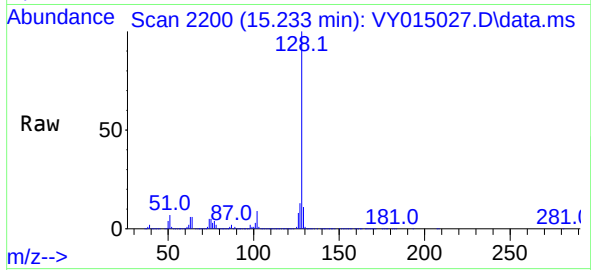
Lab File: VY015027.D

Acq: 10 Aug 2023 15:05

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 3821284

Ion Ratio Lower Upper

128 100

127 13.1 10.8 16.2

129 11.1 8.6 13.0

