

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121124\
 Data File : VY020587.D
 Acq On : 11 Dec 2024 15:24
 Operator : SY/MD
 Sample : P5244-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 11 22:14:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 01:39:23 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	72146	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.609	114	113141	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.414	117	86637	50.000	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	34143	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	35239	48.027	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.060%
35) Dibromofluoromethane	7.628	113	35141	49.336	ug/l	-0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.680%
50) Toluene-d8	10.103	98	133669	49.284	ug/l	-0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.560%
62) 4-Bromofluorobenzene	12.402	95	37741	39.786	ug/l	-0.01
Spiked Amount	50.000	Range	29 - 146	Recovery	=	79.580%

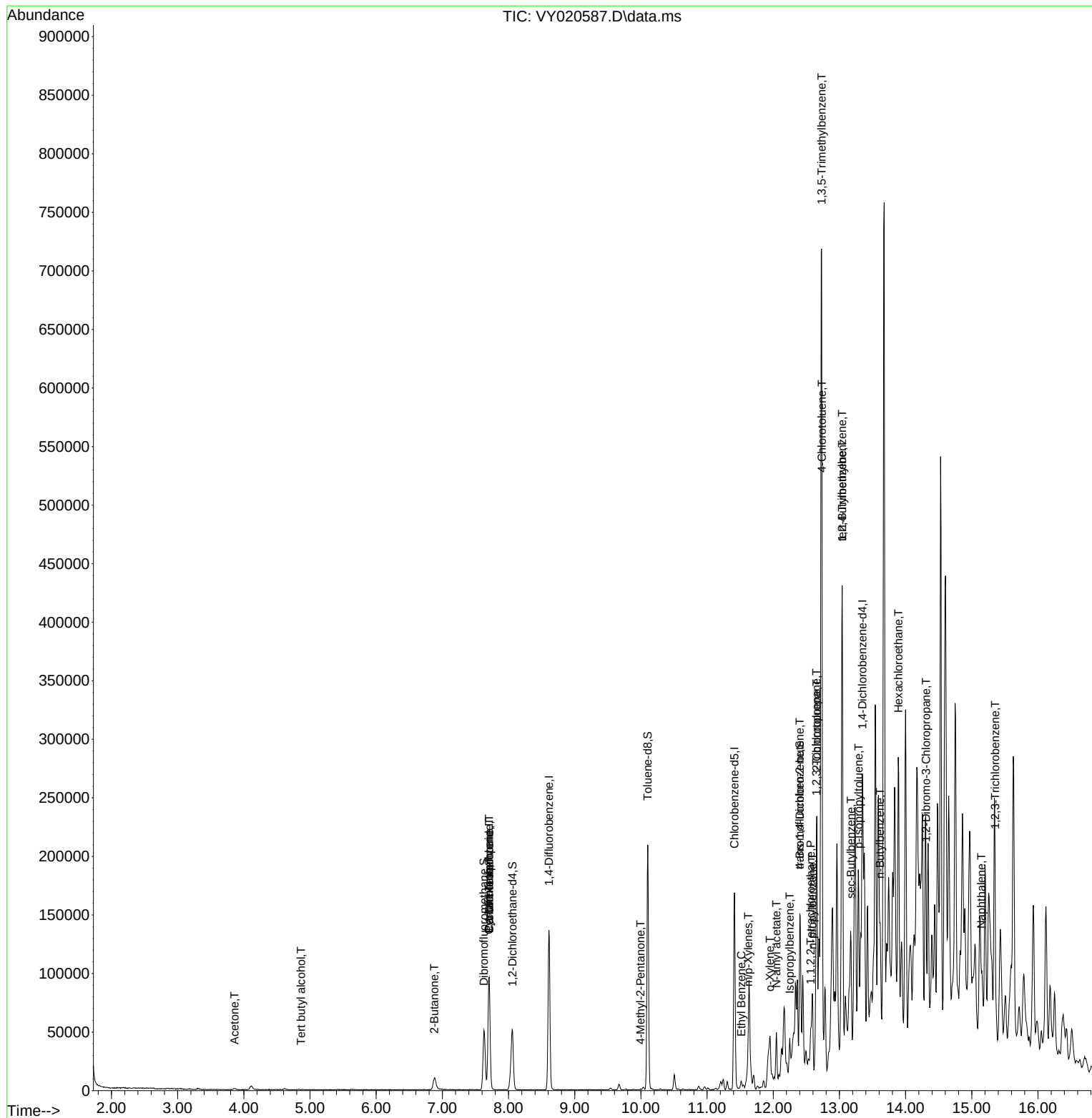
Target Compounds					Qvalue
11) Tert butyl alcohol	4.866	59	84	1.765	ug/l # 73
16) Acetone	3.860	43	1507	8.260	ug/l 90
25) 2-Butanone	6.878	43	525	2.279	ug/l # 50
31) Cyclohexane	7.701	56	1573	1.088	ug/l # 8
36) 1,1-Dichloropropene	7.707	75	6187	5.144	ug/l # 49
38) Carbon Tetrachloride	7.707	117	7618	5.307	ug/l # 16
51) 4-Methyl-2-Pentanone	9.993	43	619	1.303	ug/l # 62
67) Ethyl Benzene	11.518	91	4227	1.038	ug/l # 85
68) m/p-Xylenes	11.621	106	7690	5.159	ug/l 97
69) o-Xylene	11.950	106	7075	5.067	ug/l 82
73) Isopropylbenzene	12.249	105	11682	3.536	ug/l 95
74) N-amyl acetate	12.048	43	8463	13.071	ug/l # 66
75) 1,1,2,2-Tetrachloroethane	12.566	83	3131	6.591	ug/l # 25
76) 1,2,3-Trichloropropane	12.651	75	1092	3.140	ug/l # 100
78) n-propylbenzene	12.590	91	46517	11.893	ug/l 100
79) 2-Chlorotoluene	12.658	91	15158	6.868	ug/l # 42
80) 1,3,5-Trimethylbenzene	12.731	105	45609	17.228	ug/l 99
81) trans-1,4-Dichloro-2-b...	12.402	75	20972	123.721	ug/l # 10
82) 4-Chlorotoluene	12.737	91	5439	2.415	ug/l # 51
83) tert-Butylbenzene	13.042	119	24339	10.169	ug/l # 66
84) 1,2,4-Trimethylbenzene	13.042	105	201918	78.472	ug/l 99
85) sec-Butylbenzene	13.176	105	44272	12.907	ug/l 93
86) p-Isopropyltoluene	13.292	119	22291	7.864	ug/l 97
89) n-Butylbenzene	13.615	91	52074	19.808	ug/l # 71
90) Hexachloroethane	13.889	117	8752	15.843	ug/l # 12
92) 1,2-Dibromo-3-Chloropr...	14.310	75	432	6.007	ug/l # 14
95) Naphthalene	15.145	128	17404	17.094	ug/l # 85
96) 1,2,3-Trichlorobenzene	15.352	180	1273	2.508	ug/l # 1

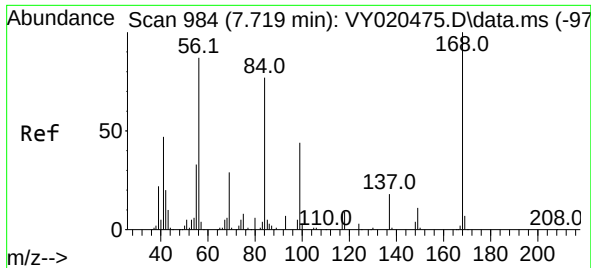
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 11 22:14:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120224S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 01:39:23 2024
Response via : Initial Calibration

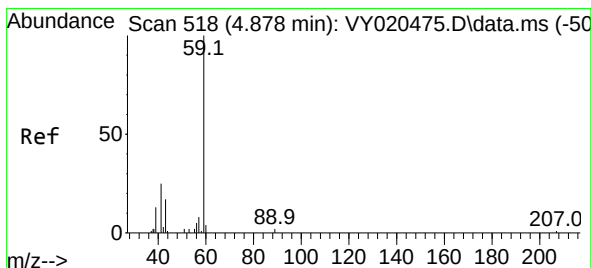
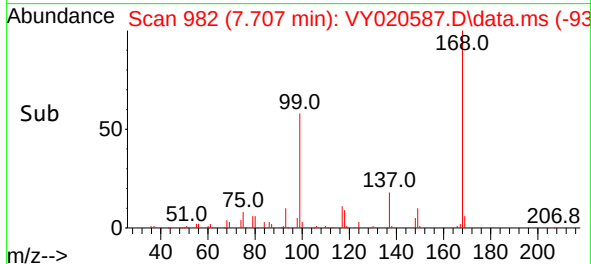
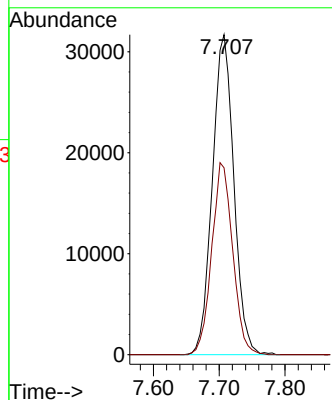
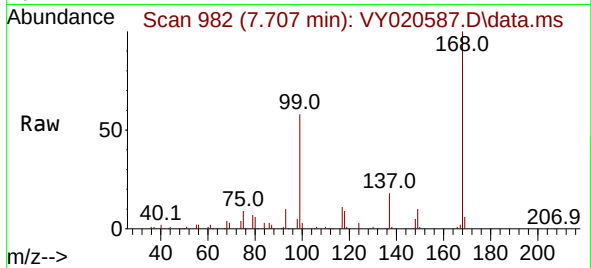




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

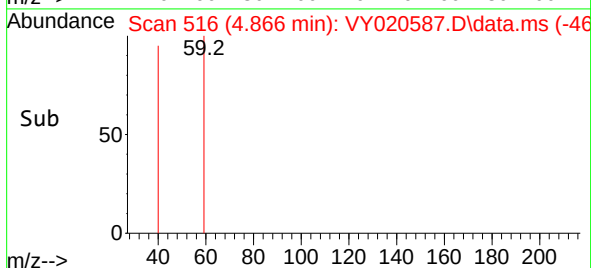
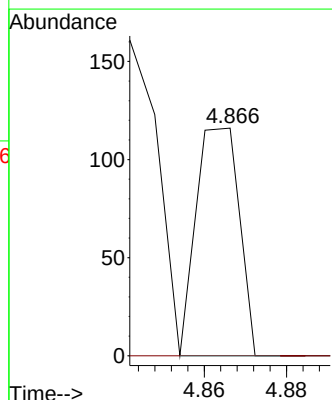
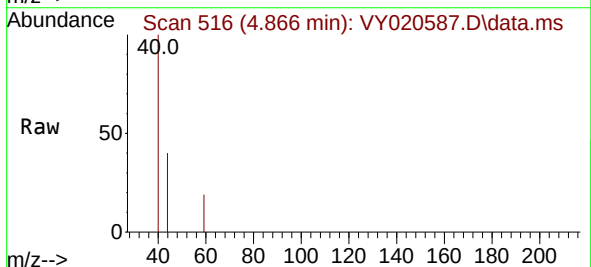
Instrument :
MSVOA_Y
ClientSampleId :

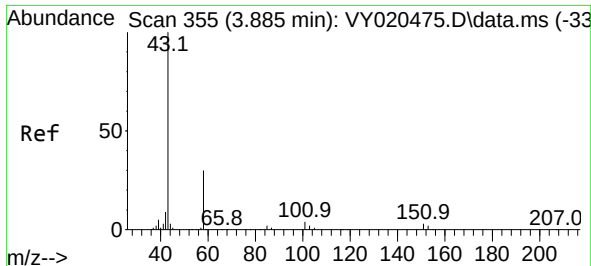
Tgt Ion:168 Resp: 72146
Ion Ratio Lower Upper
168 100
99 58.4 46.6 69.8



#11
Tert butyl alcohol
Concen: 1.765 ug/l
RT: 4.866 min Scan# 516
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 59 Resp: 84
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 8.260 ug/l

RT: 3.860 min Scan# 31

Delta R.T. -0.024 min

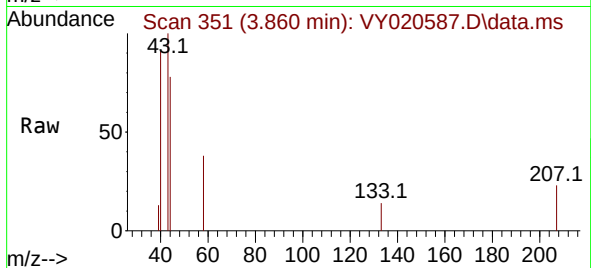
Lab File: VY020587.D

Acq: 11 Dec 2024 15:24

Instrument :

MSVOA_Y

ClientSampleId :

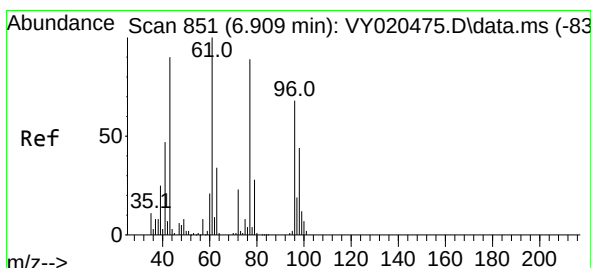
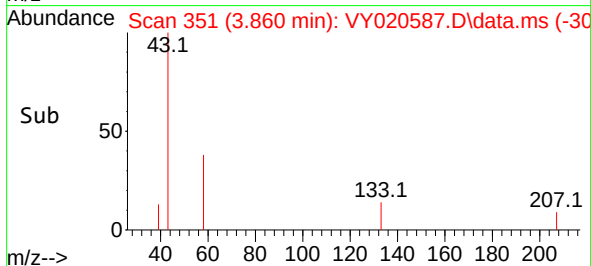
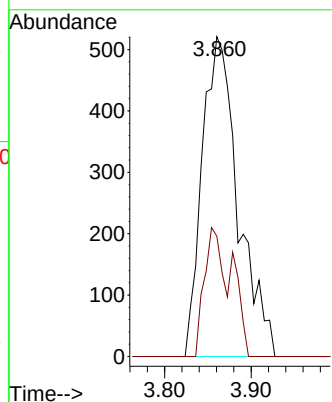


Tgt Ion: 43 Resp: 1507

Ion Ratio Lower Upper

43 100

58 37.6 25.7 38.5



#25

2-Butanone

Concen: 2.279 ug/l

RT: 6.878 min Scan# 846

Delta R.T. -0.031 min

Lab File: VY020587.D

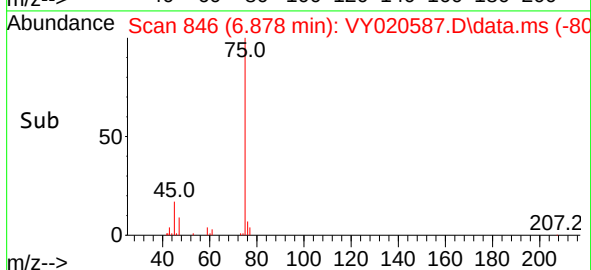
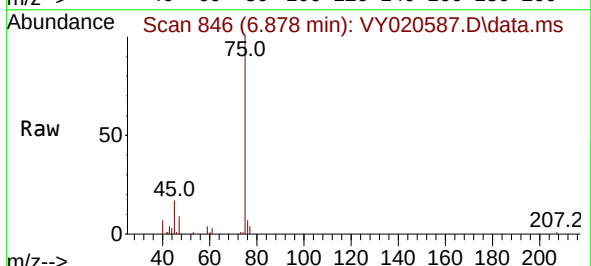
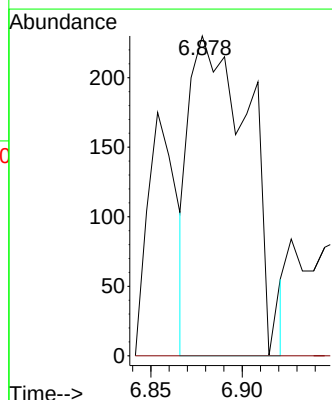
Acq: 11 Dec 2024 15:24

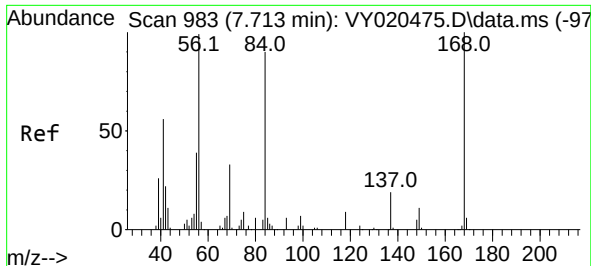
Tgt Ion: 43 Resp: 525

Ion Ratio Lower Upper

43 100

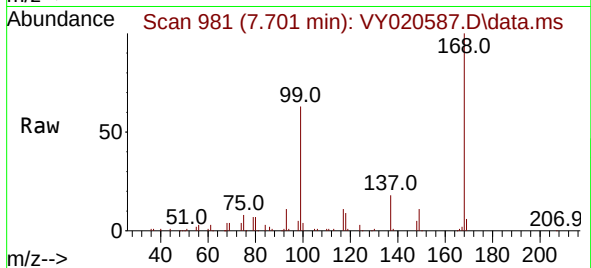
72 0.0 20.4 30.6#



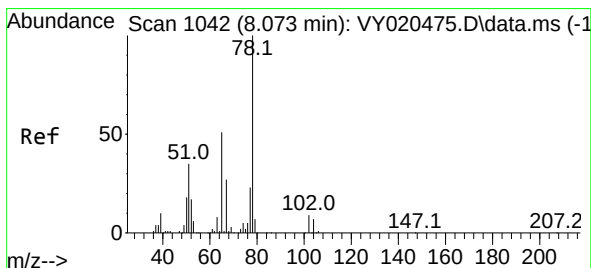
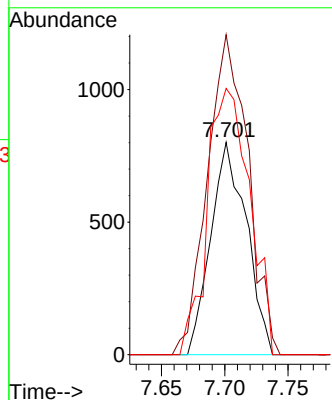
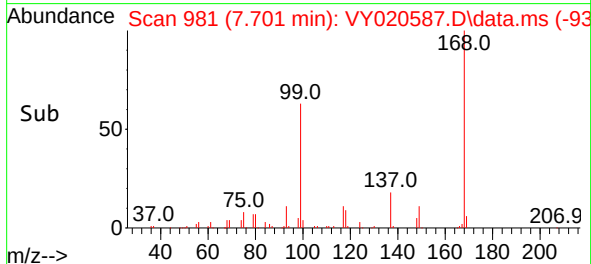


#31
Cyclohexane
Concen: 1.088 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Instrument :
MSVOA_Y
ClientSampleId :

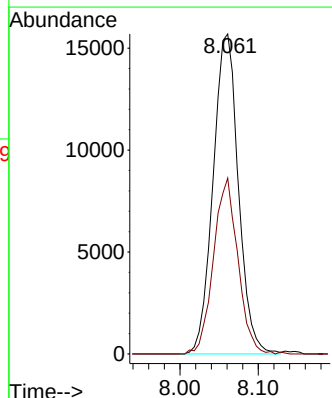
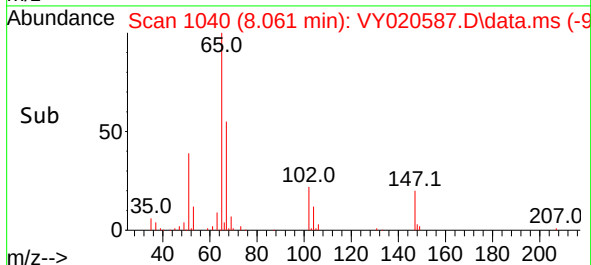
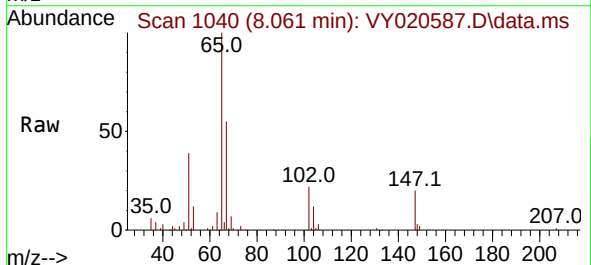


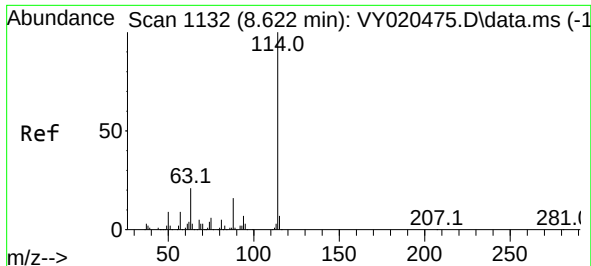
Tgt Ion: 56 Resp: 1573
Ion Ratio Lower Upper
56 100
69 150.7 25.3 37.9#
84 125.3 66.9 100.3#



#33
1,2-Dichloroethane-d4
Concen: 48.027 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 65 Resp: 35239
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.8

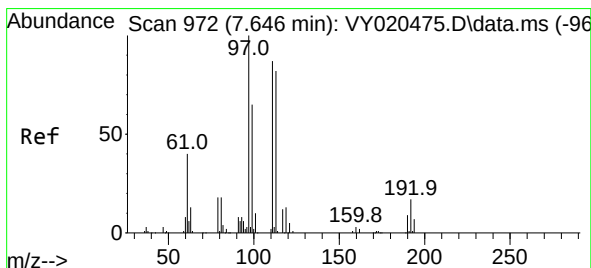
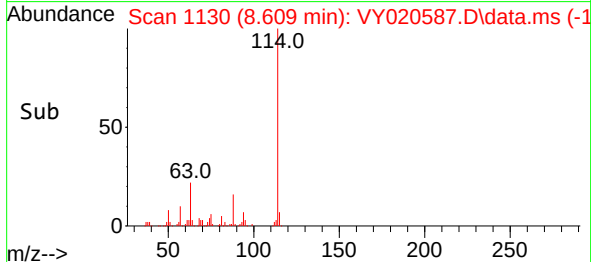
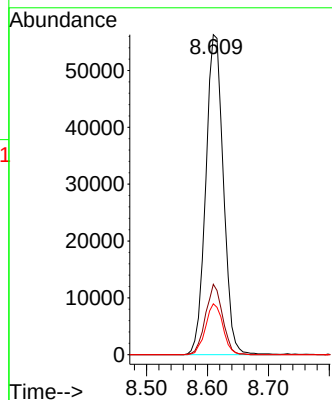
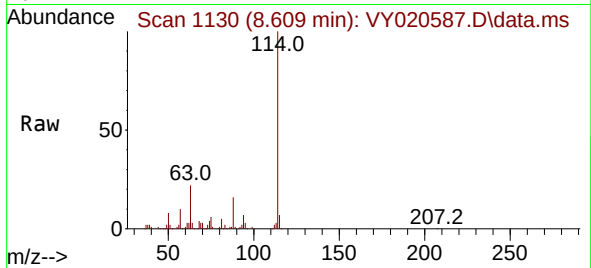




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1132
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

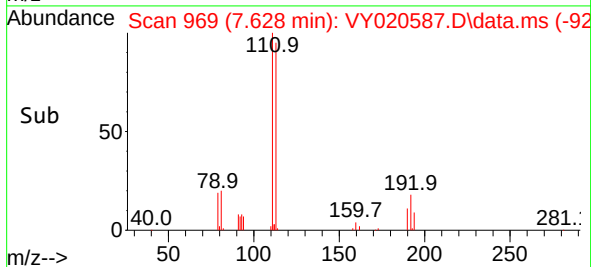
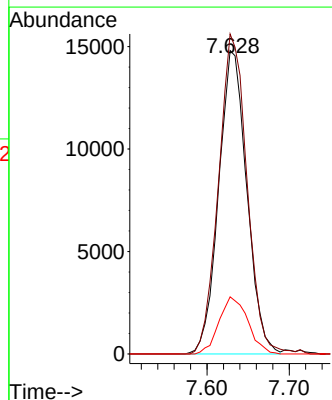
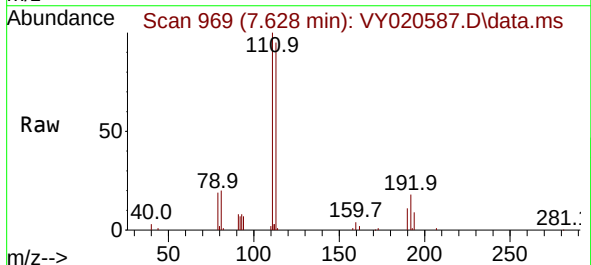
Instrument :
MSVOA_Y
ClientSampleId :

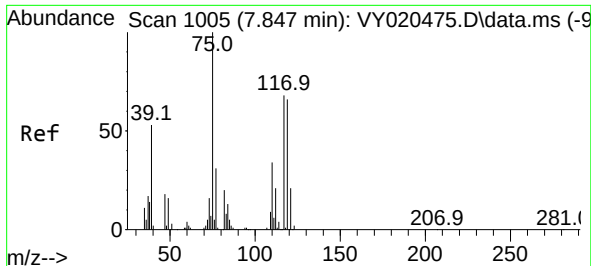
Tgt Ion:114 Resp: 113141
Ion Ratio Lower Upper
114 100
63 22.0 0.0 44.8
88 15.9 0.0 32.0



#35
Dibromofluoromethane
Concen: 49.336 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.018 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion:113 Resp: 35141
Ion Ratio Lower Upper
113 100
111 106.9 81.4 122.0
192 19.3 15.1 22.7





#36

1,1-Dichloropropene

Concen: 5.144 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.140 min

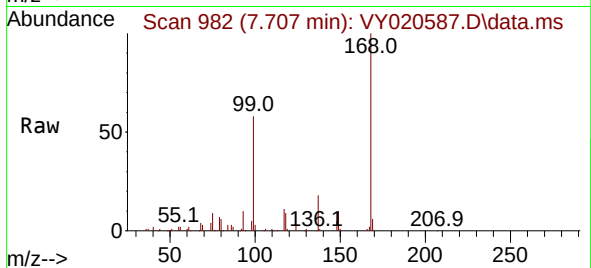
Lab File: VY020587.D

Acq: 11 Dec 2024 15:24

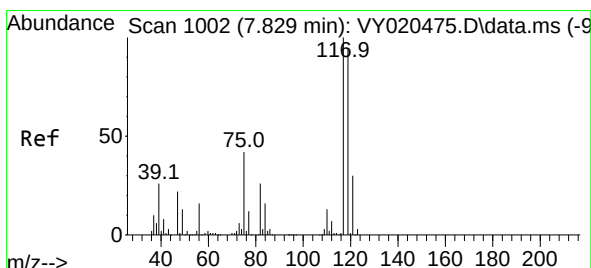
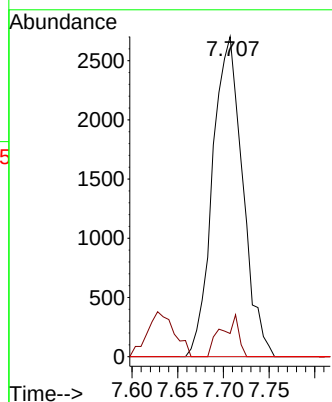
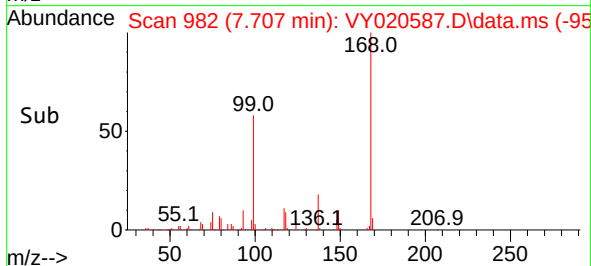
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 75	Resp: 6187
Ion Ratio	Lower Upper
75	100
110	7.5 16.7 50.0#
77	0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.307 ug/l

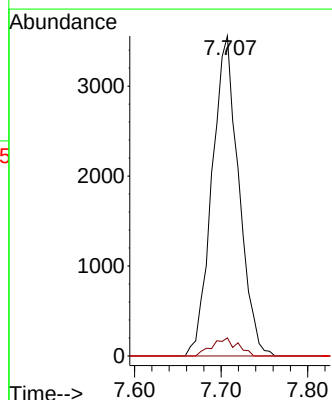
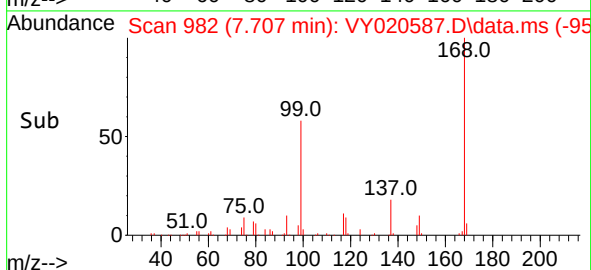
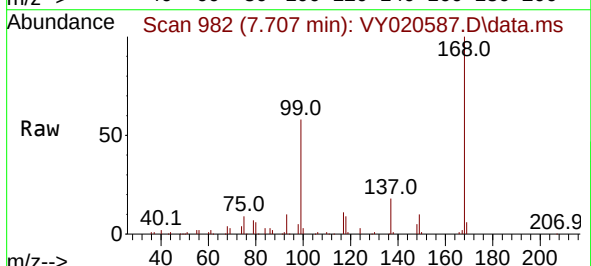
RT: 7.707 min Scan# 982

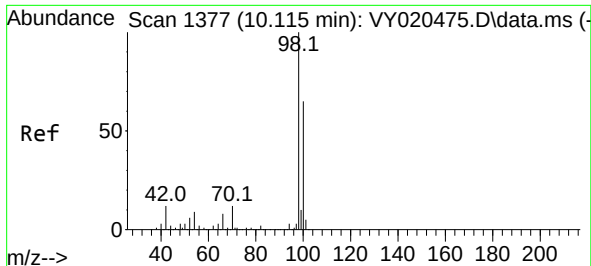
Delta R.T. -0.122 min

Lab File: VY020587.D

Acq: 11 Dec 2024 15:24

Tgt Ion: 117	Resp: 7618
Ion Ratio	Lower Upper
117	100
119	5.6 77.8 116.6#
121	0.0 24.6 37.0#

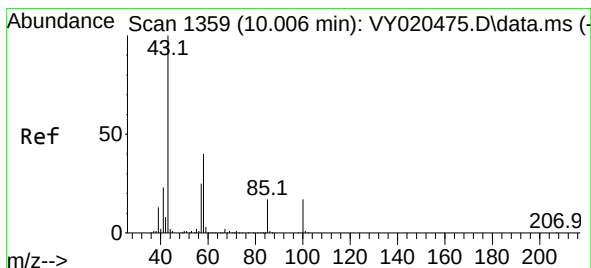
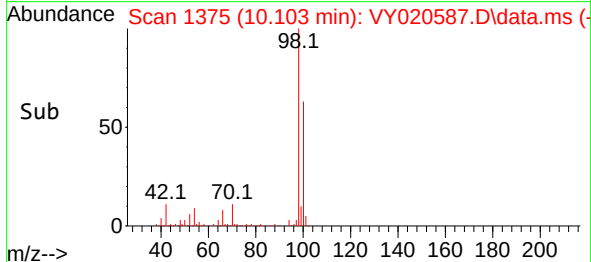
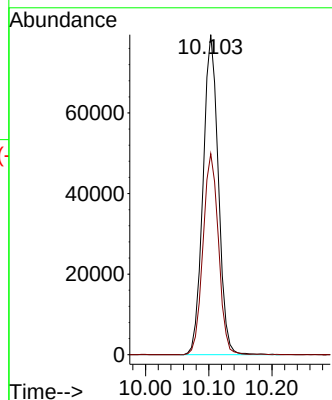
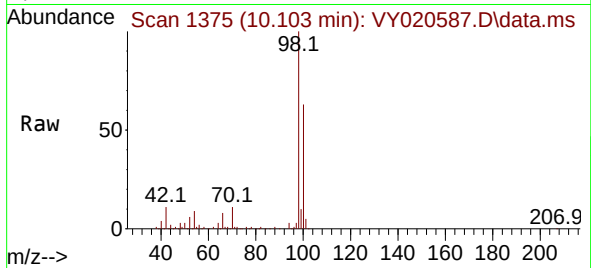




#50
Toluene-d8
Concen: 49.284 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

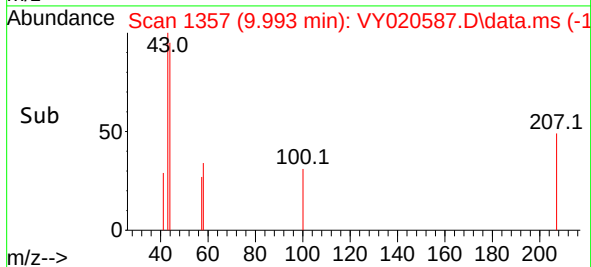
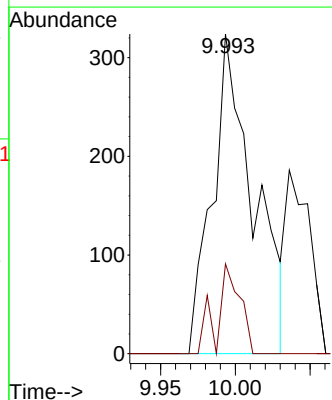
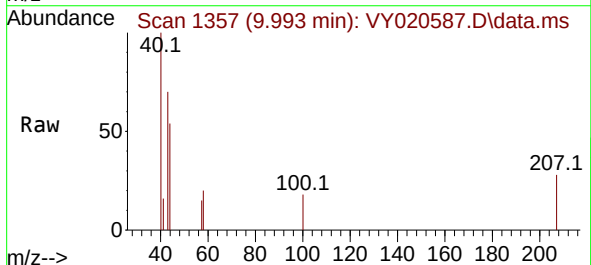
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MSVOA_Y
ClientSampleId :

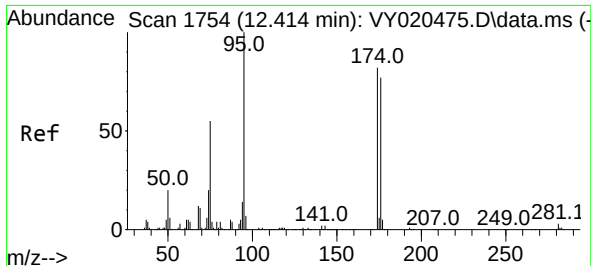
Tgt Ion: 98 Resp: 133669
Ion Ratio Lower Upper
98 100
100 63.4 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 1.303 ug/l
RT: 9.993 min Scan# 1357
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 43 Resp: 619
Ion Ratio Lower Upper
43 100
58 15.7 30.9 46.3#

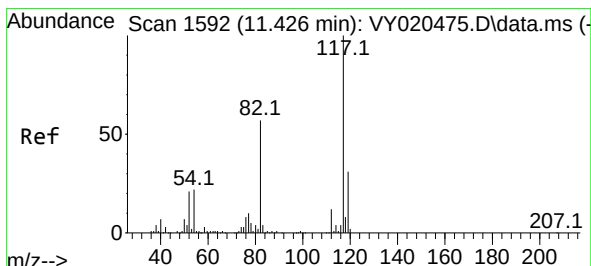
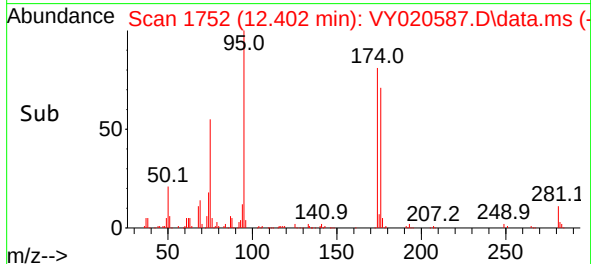
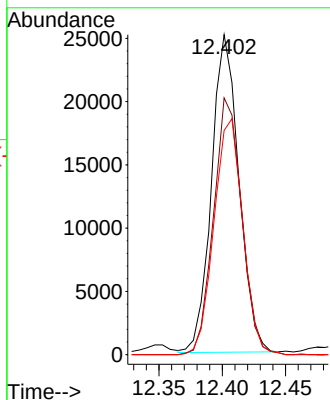
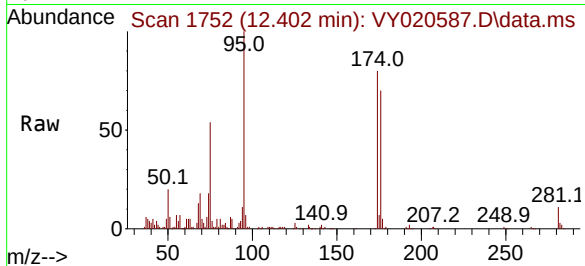




#62
4-Bromofluorobenzene
Concen: 39.786 ug/l
RT: 12.402 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

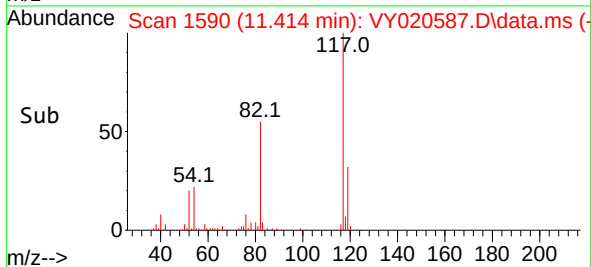
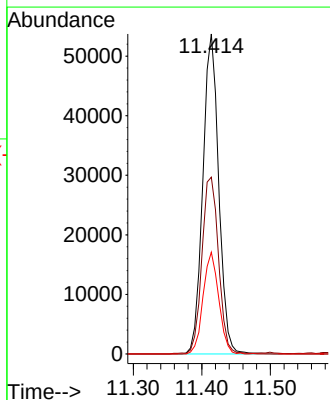
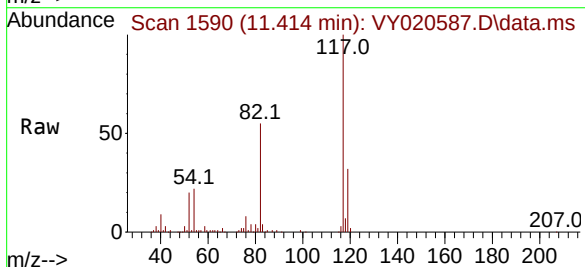
Instrument :
MSVOA_Y
ClientSampleId :

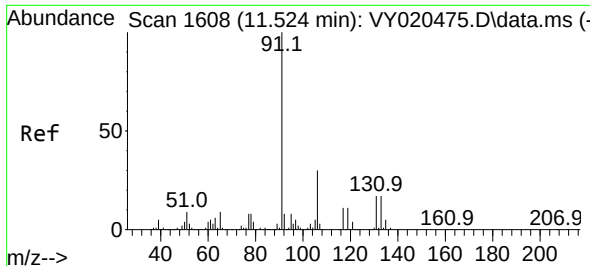
Tgt Ion:	95	Resp:	37741
Ion Ratio	Lower	Upper	
95	100		
174	83.2	0.0	156.8
176	78.2	0.0	152.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion:	117	Resp:	86637
Ion Ratio	Lower	Upper	
117	100		
82	55.0	48.2	72.4
119	31.8	25.8	38.8





#67

Ethyl Benzene

Concen: 1.038 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY020587.D

Acq: 11 Dec 2024 15:24

Instrument :

MSVOA_Y

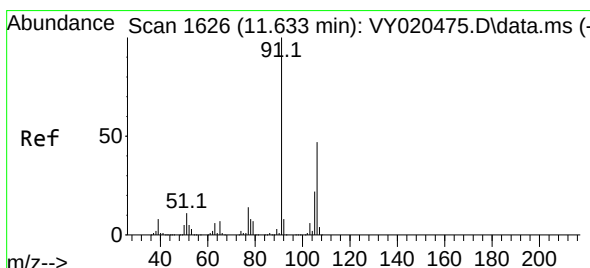
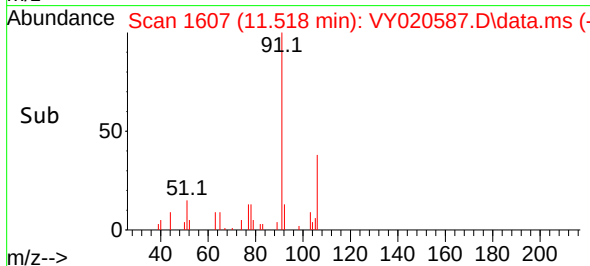
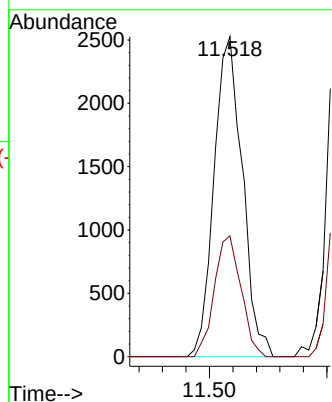
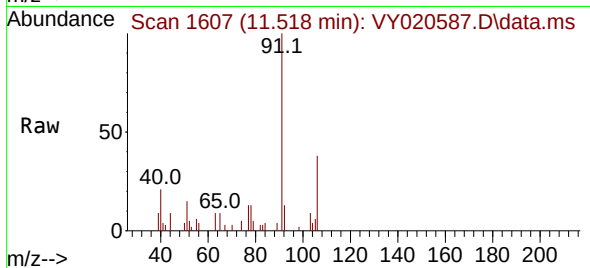
ClientSampleId :

Tgt Ion: 91 Resp: 4227

Ion Ratio Lower Upper

91 100

106 37.8 23.9 35.9#



#68

m/p-Xylenes

Concen: 5.159 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.012 min

Lab File: VY020587.D

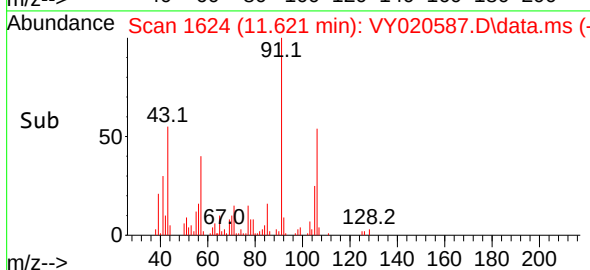
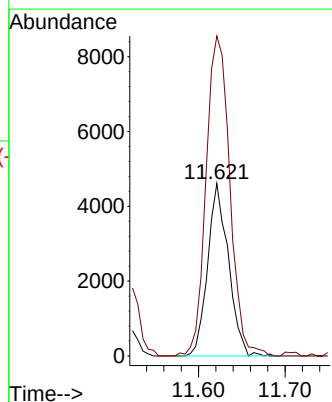
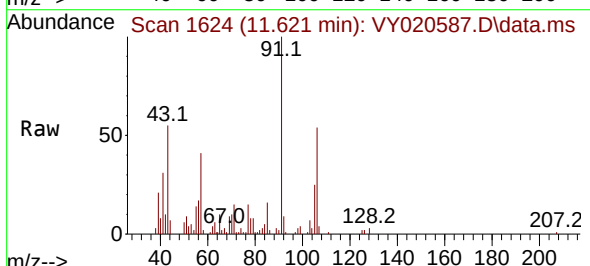
Acq: 11 Dec 2024 15:24

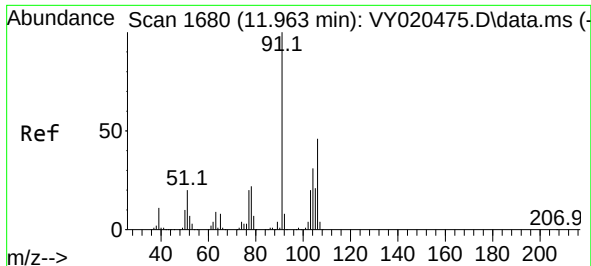
Tgt Ion:106 Resp: 7690

Ion Ratio Lower Upper

106 100

91 212.1 166.0 249.0

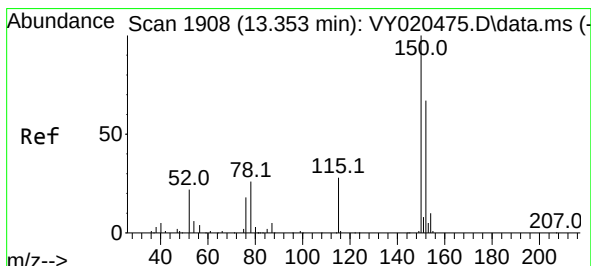
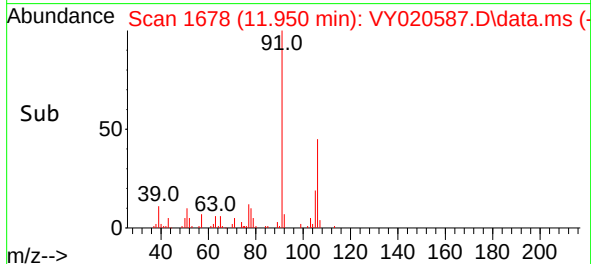
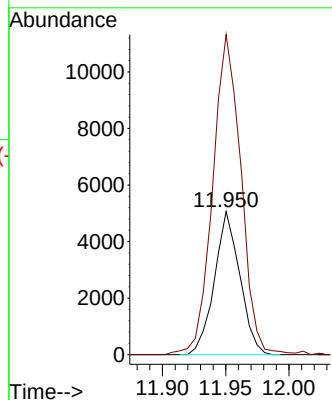
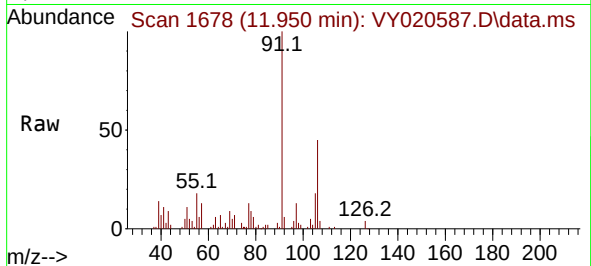




#69
o-Xylene
Concen: 5.067 ug/l
RT: 11.950 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

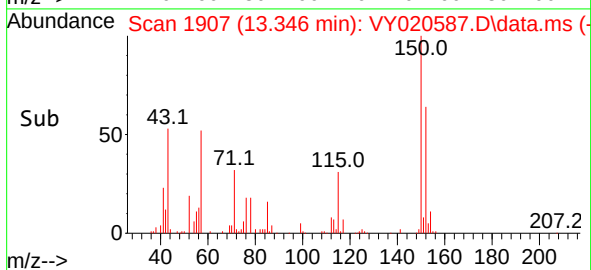
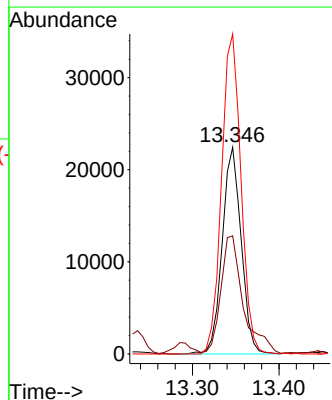
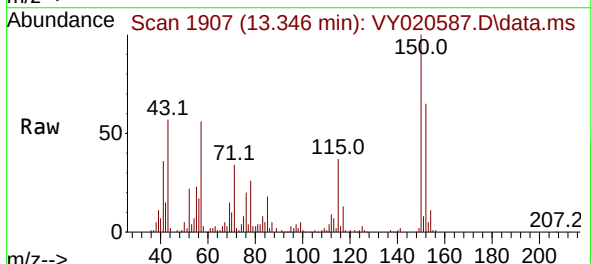
Instrument :
MSVOA_Y
ClientSampleId :

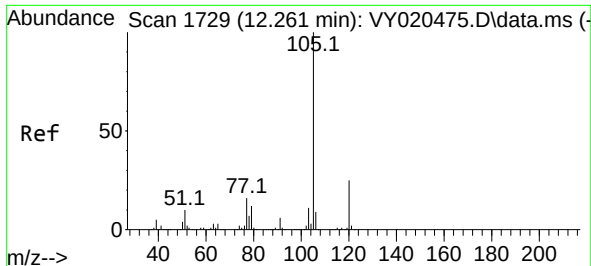
Tgt Ion:106 Resp: 7075
Ion Ratio Lower Upper
106 100
91 249.1 110.0 330.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

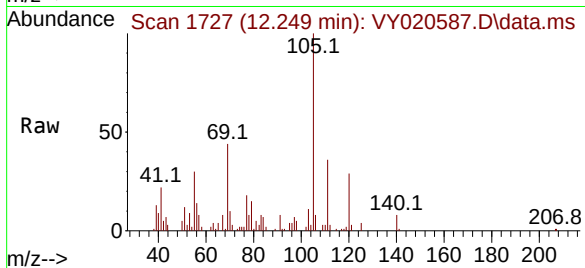
Tgt Ion:152 Resp: 34143
Ion Ratio Lower Upper
152 100
115 66.6 30.0 90.0
150 158.0 0.0 348.2



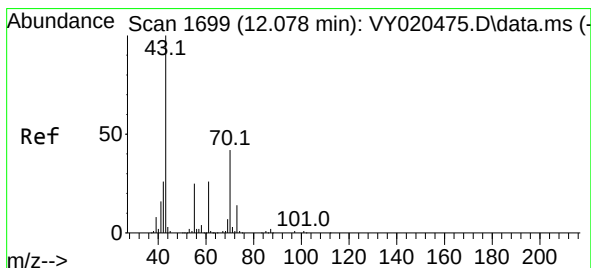
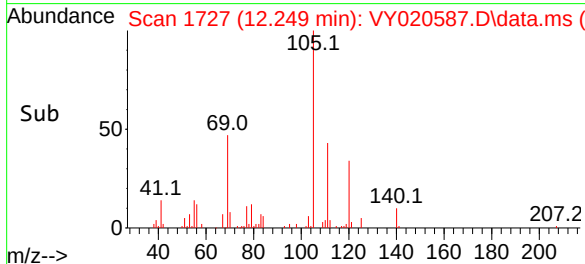
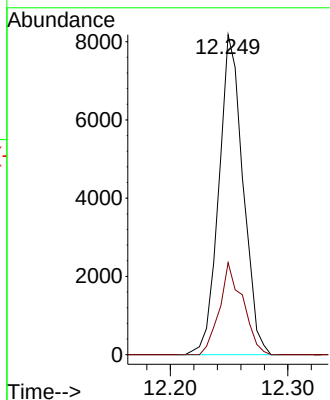


#73
Isopropylbenzene
Concen: 3.536 ug/l
RT: 12.249 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Instrument :
MSVOA_Y
ClientSampleId :

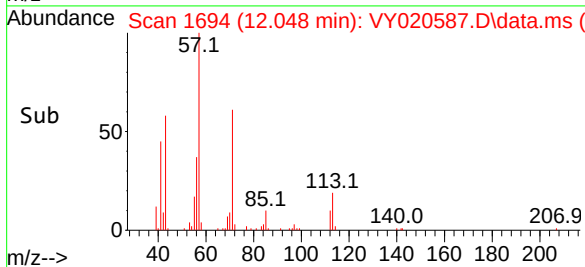
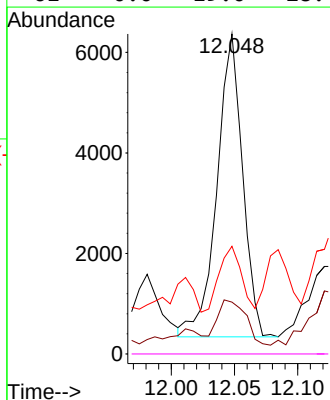
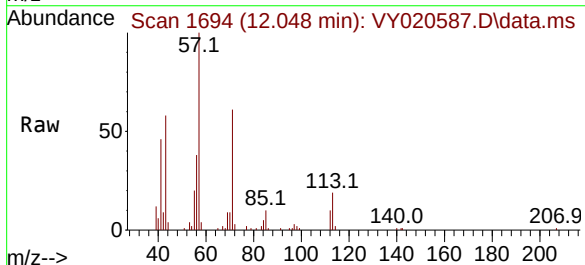


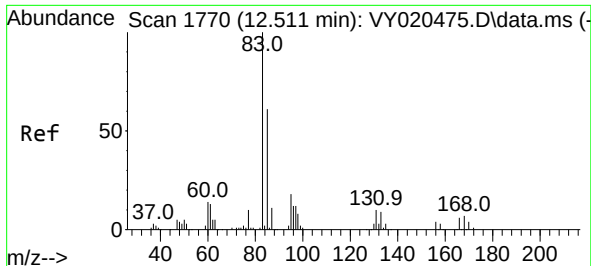
Tgt Ion:105 Resp: 11682
Ion Ratio Lower Upper
105 100
120 27.7 12.7 38.1



#74
N-ethyl acetate
Concen: 13.071 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.031 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 43 Resp: 8463
Ion Ratio Lower Upper
43 100
70 16.1 32.9 49.3#
55 18.8 19.3 28.9#
61 0.0 19.0 28.4#

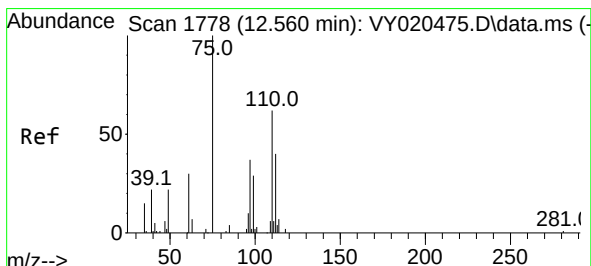
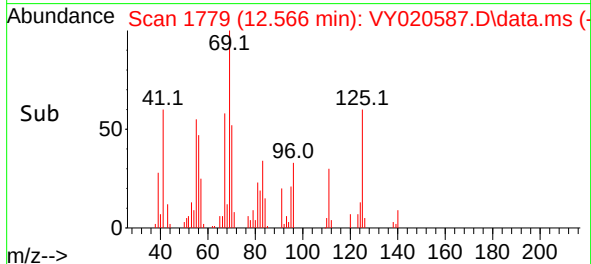
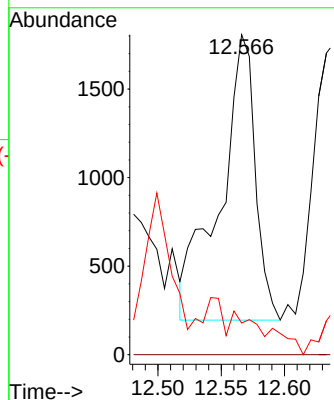
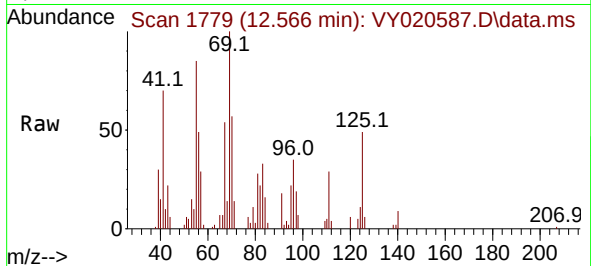




#75
1,1,2,2-Tetrachloroethane
Concen: 6.591 ug/l
RT: 12.566 min Scan# 1779
Delta R.T. 0.055 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

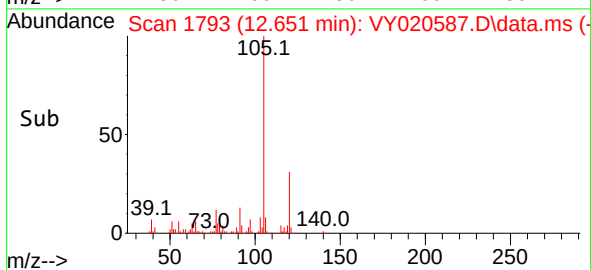
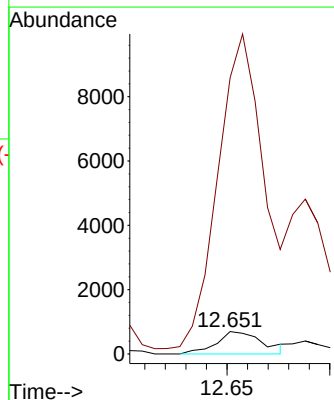
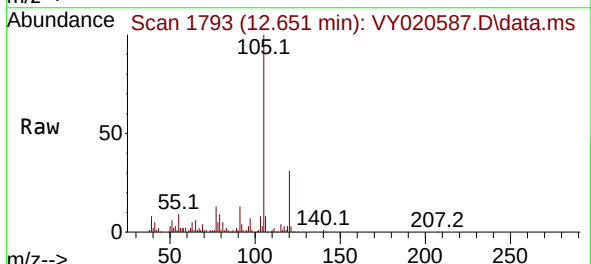
Instrument :
MSVOA_Y
ClientSampleId :

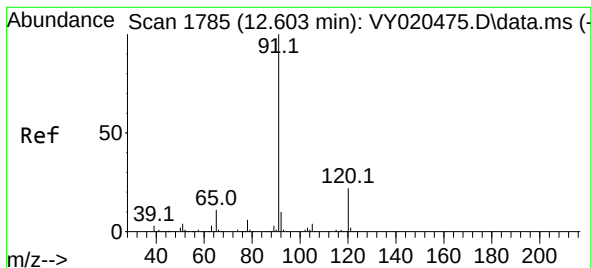
Tgt Ion: 83 Resp: 3131
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 0.0 32.0 96.0#



#76
1,2,3-Trichloropropane
Concen: 3.140 ug/l
RT: 12.651 min Scan# 1793
Delta R.T. 0.091 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 75 Resp: 1092
Ion Ratio Lower Upper
75 100
77 1400.2 0.0 0.0#





#78

n-propylbenzene

Concen: 11.893 ug/l

RT: 12.590 min Scan# 1783

Delta R.T. -0.012 min

Lab File: VY020587.D

Acq: 11 Dec 2024 15:24

Instrument :

MSVOA_Y

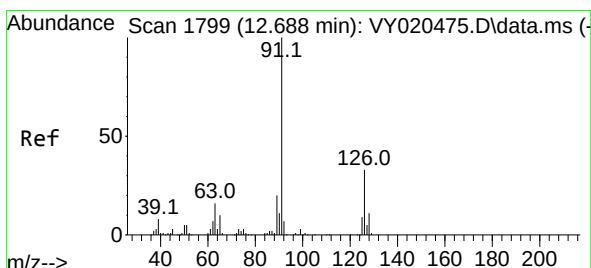
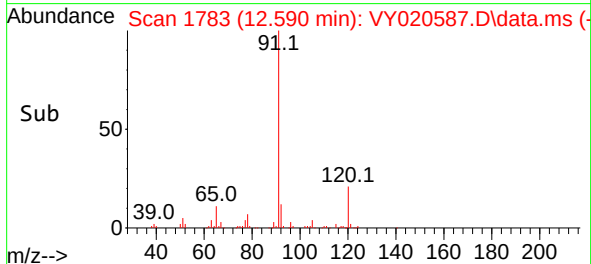
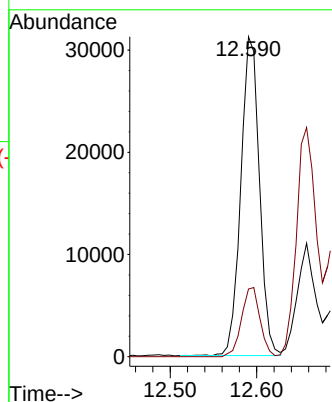
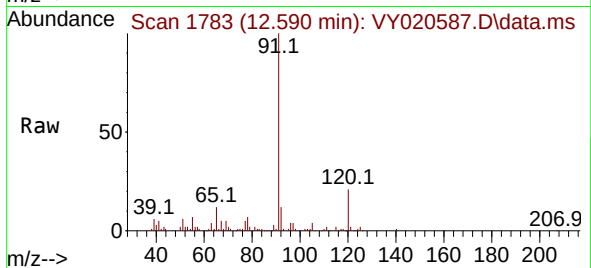
ClientSampleId :

Tgt Ion: 91 Resp: 46517

Ion Ratio Lower Upper

91 100

120 21.6 10.9 32.6



#79

2-Chlorotoluene

Concen: 6.868 ug/l

RT: 12.658 min Scan# 1794

Delta R.T. -0.031 min

Lab File: VY020587.D

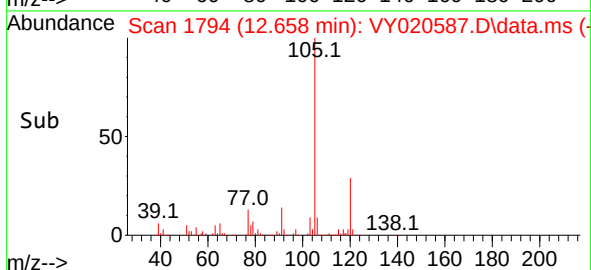
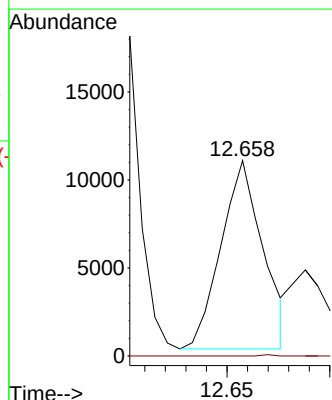
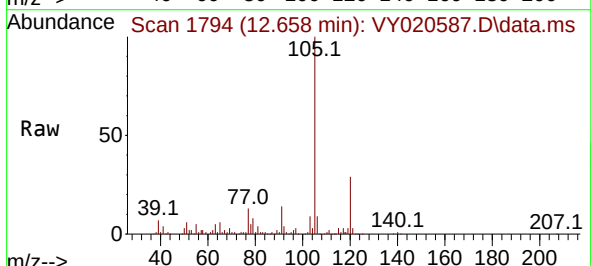
Acq: 11 Dec 2024 15:24

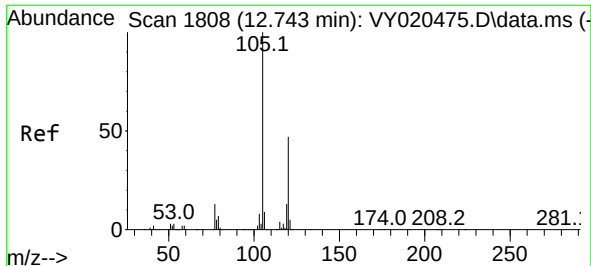
Tgt Ion: 91 Resp: 15158

Ion Ratio Lower Upper

91 100

126 0.2 16.4 49.1#

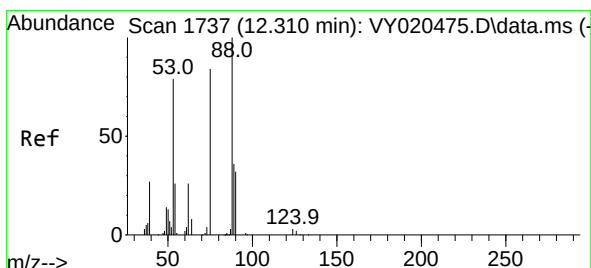
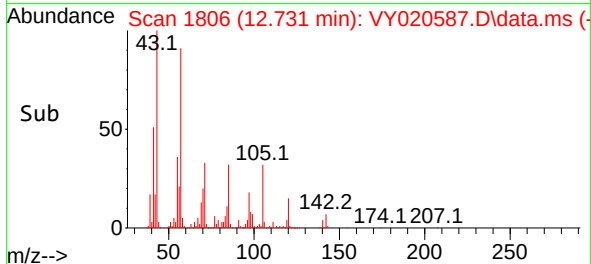
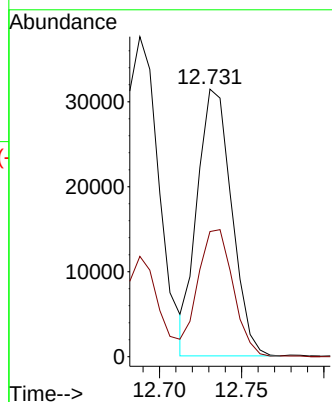
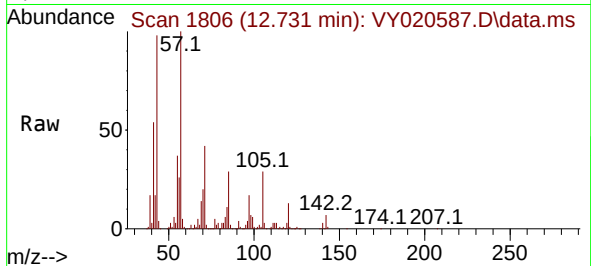




#80
1,3,5-Trimethylbenzene
Concen: 17.228 ug/l
RT: 12.731 min Scan# 1752
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

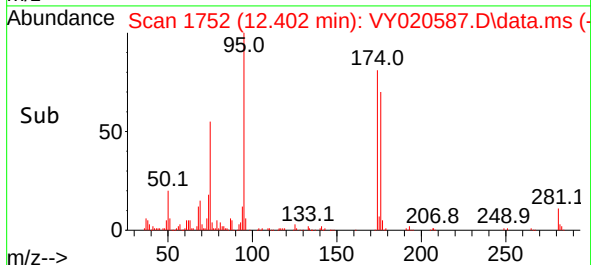
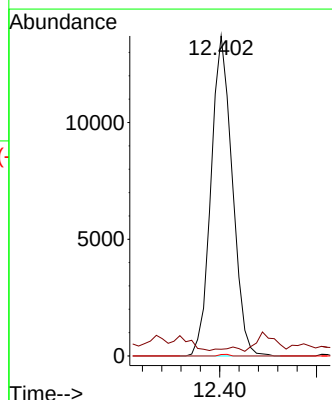
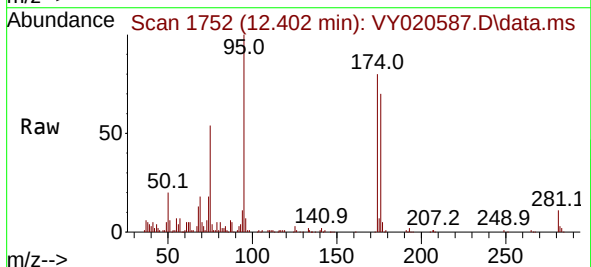
Instrument :
MSVOA_Y
ClientSampleId :

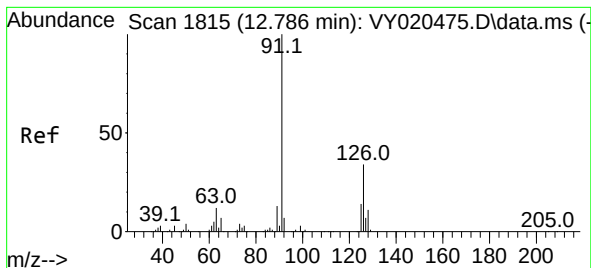
Tgt Ion:105 Resp: 45609
Ion Ratio Lower Upper
105 100
120 48.9 24.3 72.8



#81
trans-1,4-Dichloro-2-butene
Concen: 123.721 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.091 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 75 Resp: 20972
Ion Ratio Lower Upper
75 100
53 1.1 81.1 121.7#
89 0.2 35.1 52.7#

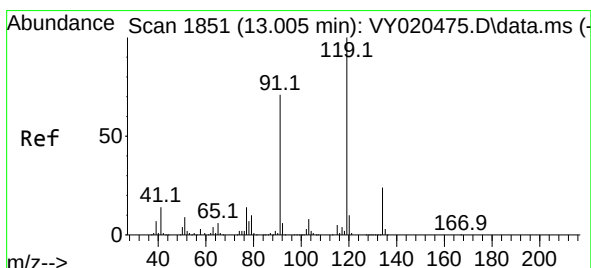
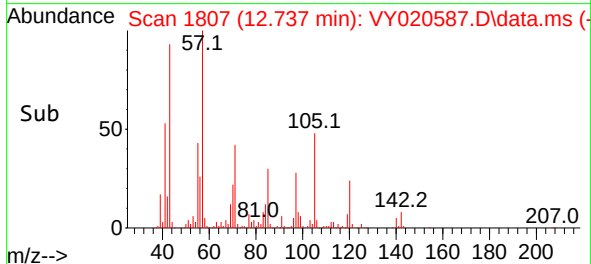
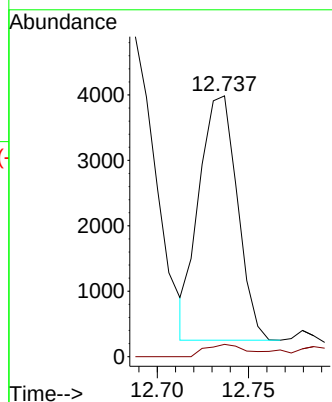
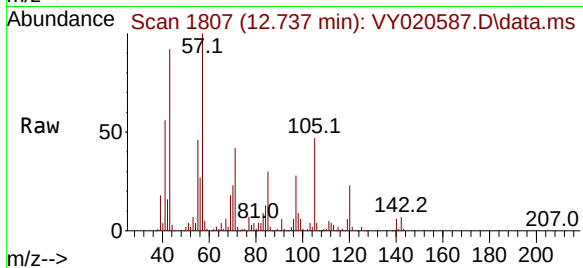




#82
4-Chlorotoluene
Concen: 2.415 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.049 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

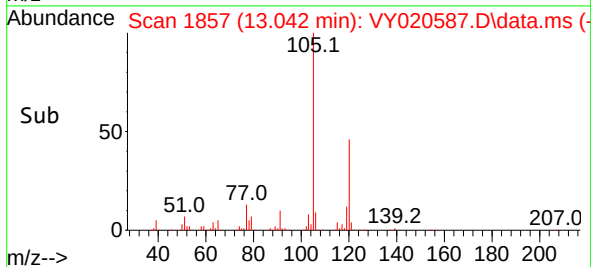
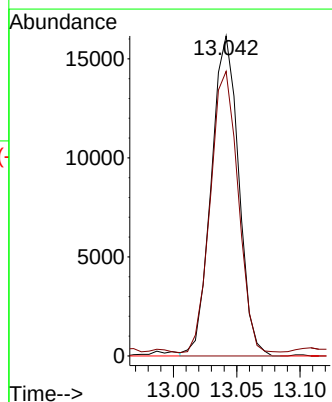
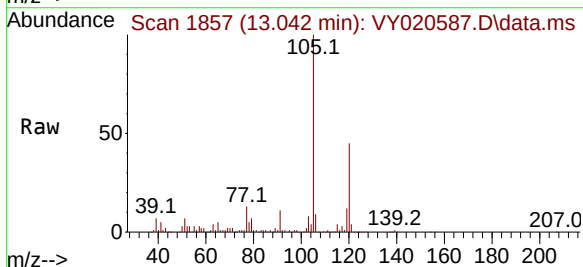
Instrument :
MSVOA_Y
ClientSampleId :

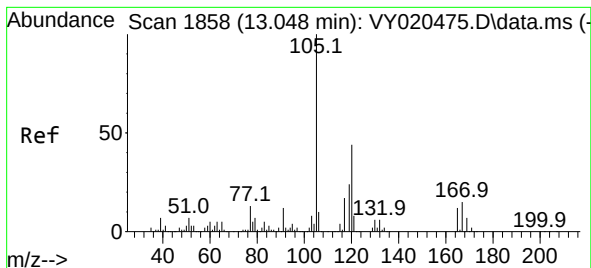
Tgt Ion: 91 Resp: 5439
Ion Ratio Lower Upper
91 100
126 5.3 16.6 49.8#



#83
tert-Butylbenzene
Concen: 10.169 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.037 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 119 Resp: 24339
Ion Ratio Lower Upper
119 100
91 88.8 33.3 99.9
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 78.472 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY020587.D

Acq: 11 Dec 2024 15:24

Instrument :

MSVOA_Y

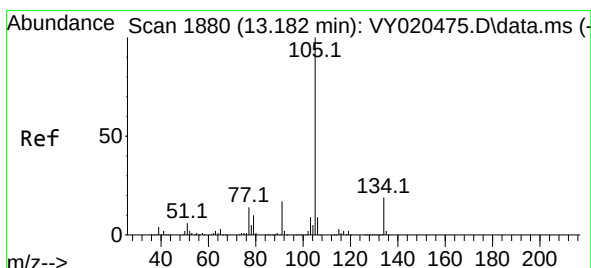
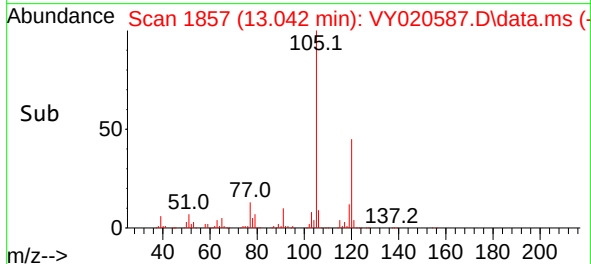
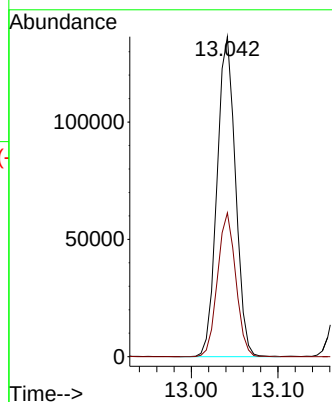
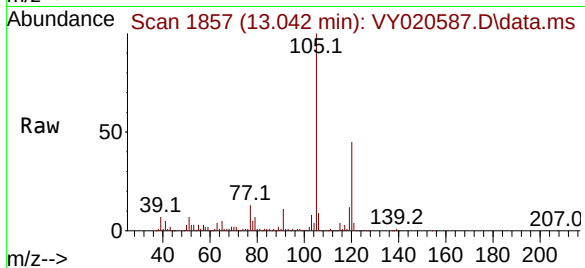
ClientSampleId :

Tgt Ion:105 Resp: 201918

Ion Ratio Lower Upper

105 100

120 44.4 22.0 66.0



#85

sec-Butylbenzene

Concen: 12.907 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. -0.006 min

Lab File: VY020587.D

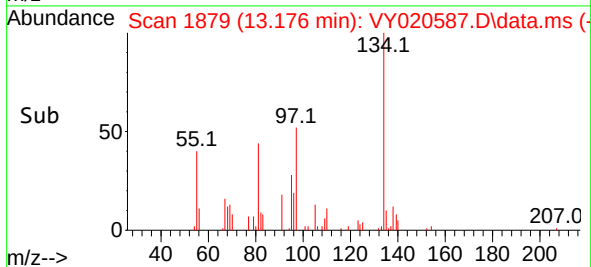
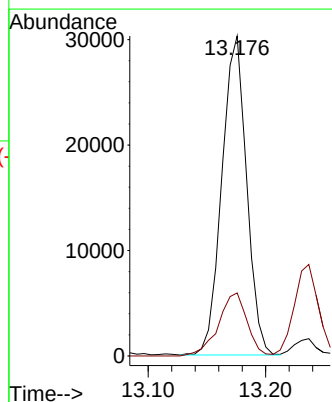
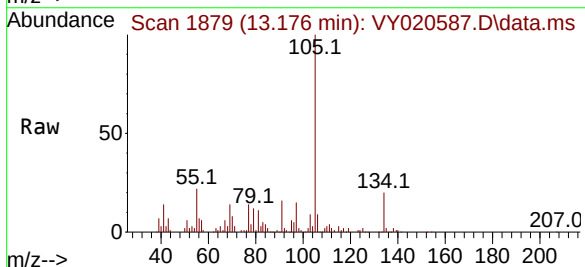
Acq: 11 Dec 2024 15:24

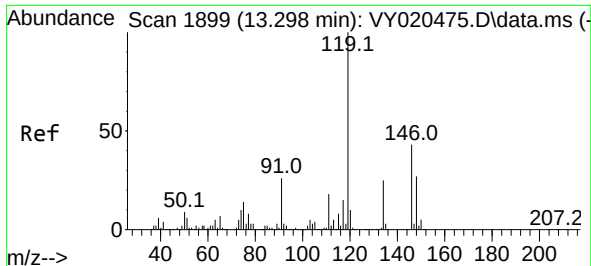
Tgt Ion:105 Resp: 44272

Ion Ratio Lower Upper

105 100

134 22.9 9.8 29.5

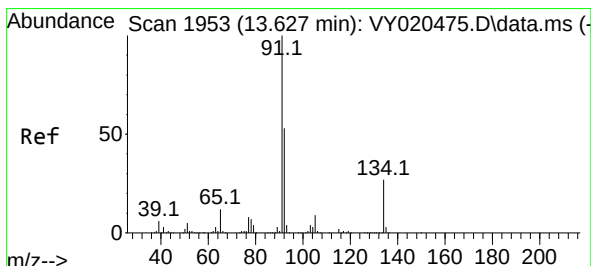
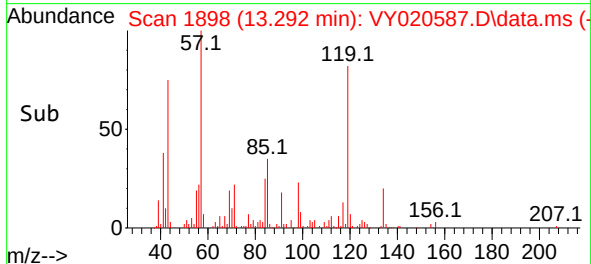
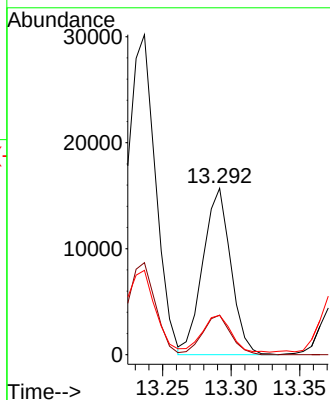
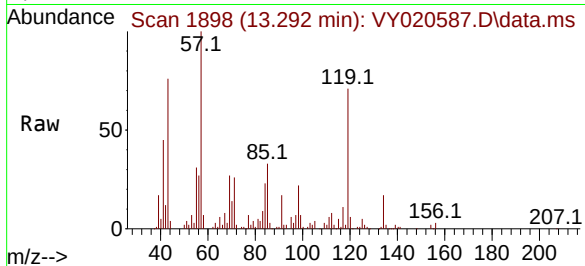




#86
p-Isopropyltoluene
Concen: 7.864 ug/l
RT: 13.292 min Scan# 119
Delta R.T. -0.006 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

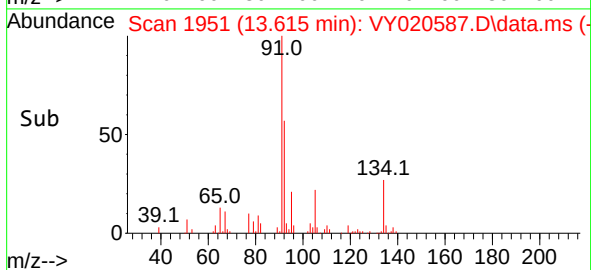
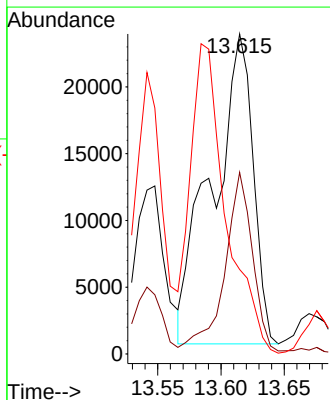
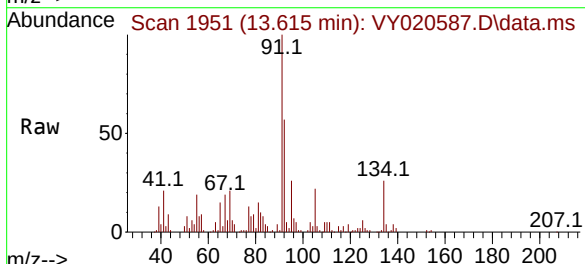
Instrument :
MSVOA_Y
ClientSampleId :

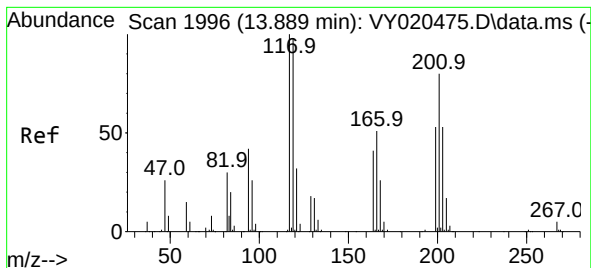
Tgt Ion:119	Resp:	22291
Ion Ratio	Lower	Upper
119	100	
134	24.0	12.8 38.4
91	22.6	12.3 36.8



#89
n-Butylbenzene
Concen: 19.808 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.012 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 91	Resp:	52074
Ion Ratio	Lower	Upper
91	100	
92	39.2	26.5 79.5
134	0.0	12.2 36.4#

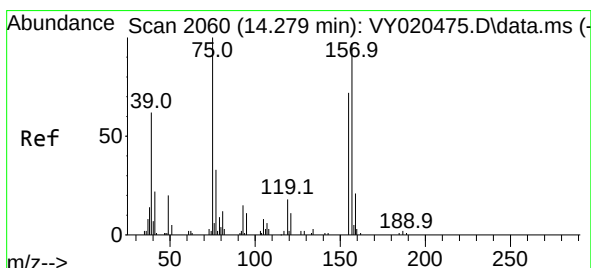
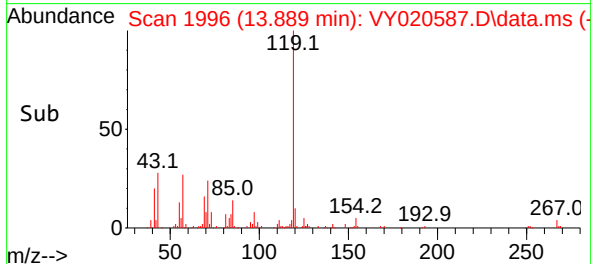
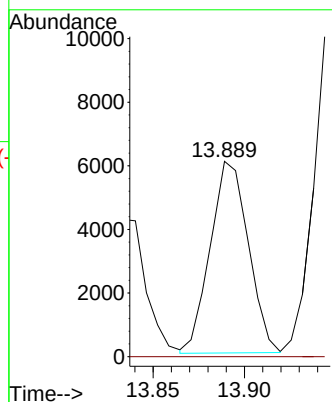
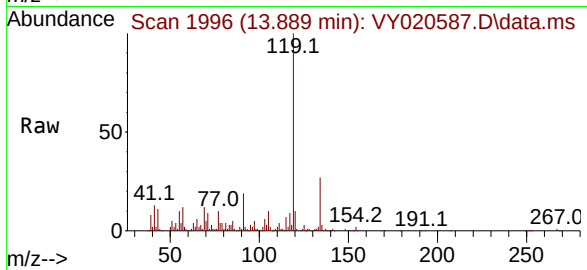




#90
Hexachloroethane
Concen: 15.843 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

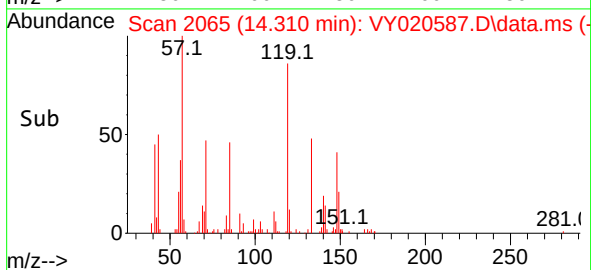
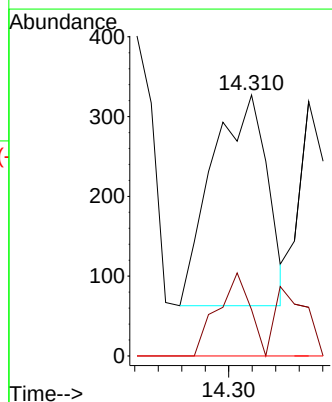
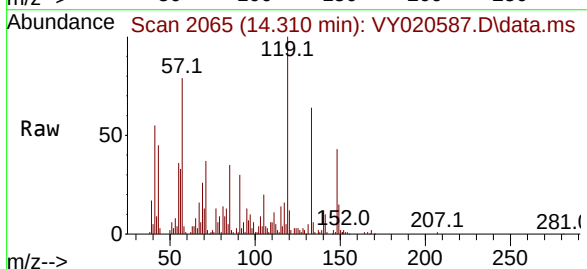
Instrument :
MSVOA_Y
ClientSampleId :

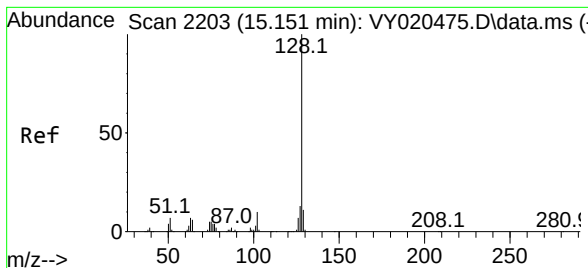
Tgt Ion:117 Resp: 8752
Ion Ratio Lower Upper
117 100
201 0.0 37.1 111.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 6.007 ug/l
RT: 14.310 min Scan# 2065
Delta R.T. 0.030 min
Lab File: VY020587.D
Acq: 11 Dec 2024 15:24

Tgt Ion: 75 Resp: 432
Ion Ratio Lower Upper
75 100
155 23.4 39.7 119.1#
157 0.0 52.6 157.8#





#95

Naphthalene

Concen: 17.094 ug/l

RT: 15.145 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY020587.D

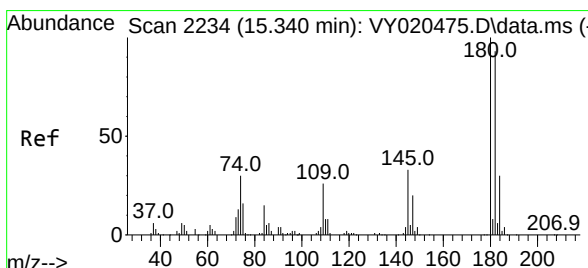
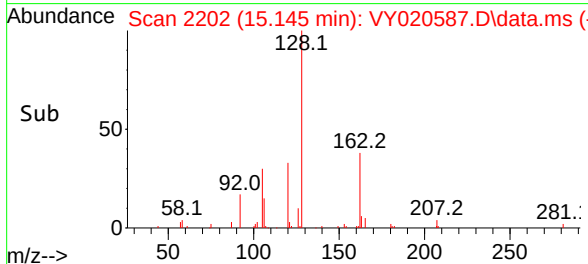
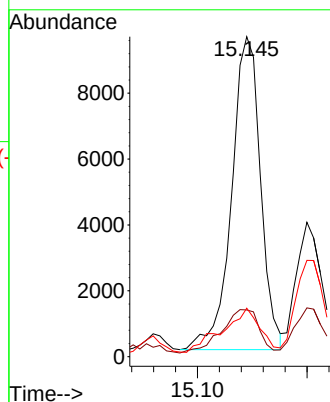
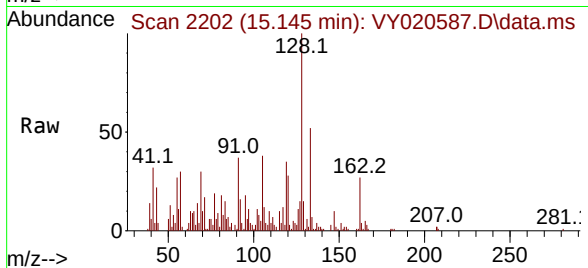
Acq: 11 Dec 2024 15:24

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:128	Resp:	17404
Ion Ratio	Lower	Upper
128	100	
127	17.9	10.5 15.7#
129	18.2	8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 2.508 ug/l

RT: 15.352 min Scan# 2236

Delta R.T. 0.012 min

Lab File: VY020587.D

Acq: 11 Dec 2024 15:24

Tgt Ion:180	Resp:	1273
Ion Ratio	Lower	Upper
180	100	
182	35.3	47.4 142.3#
145	664.1	16.9 50.6#

