

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY011525\
 Data File : VY020832.D
 Acq On : 15 Jan 2025 13:15
 Operator : SY/MD
 Sample : Q1077-01RE
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jan 16 00:58:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y010625S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 01:31:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.719	168	45608	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	78347	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.426	117	69761	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	27473	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	27468	70.857	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 141.720%	
35) Dibromofluoromethane	7.640	113	27537	56.102	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 112.200%	
50) Toluene-d8	10.115	98	91275	53.344	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 106.680%	
62) 4-Bromofluorobenzene	12.414	95	27737	43.897	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 87.800%	

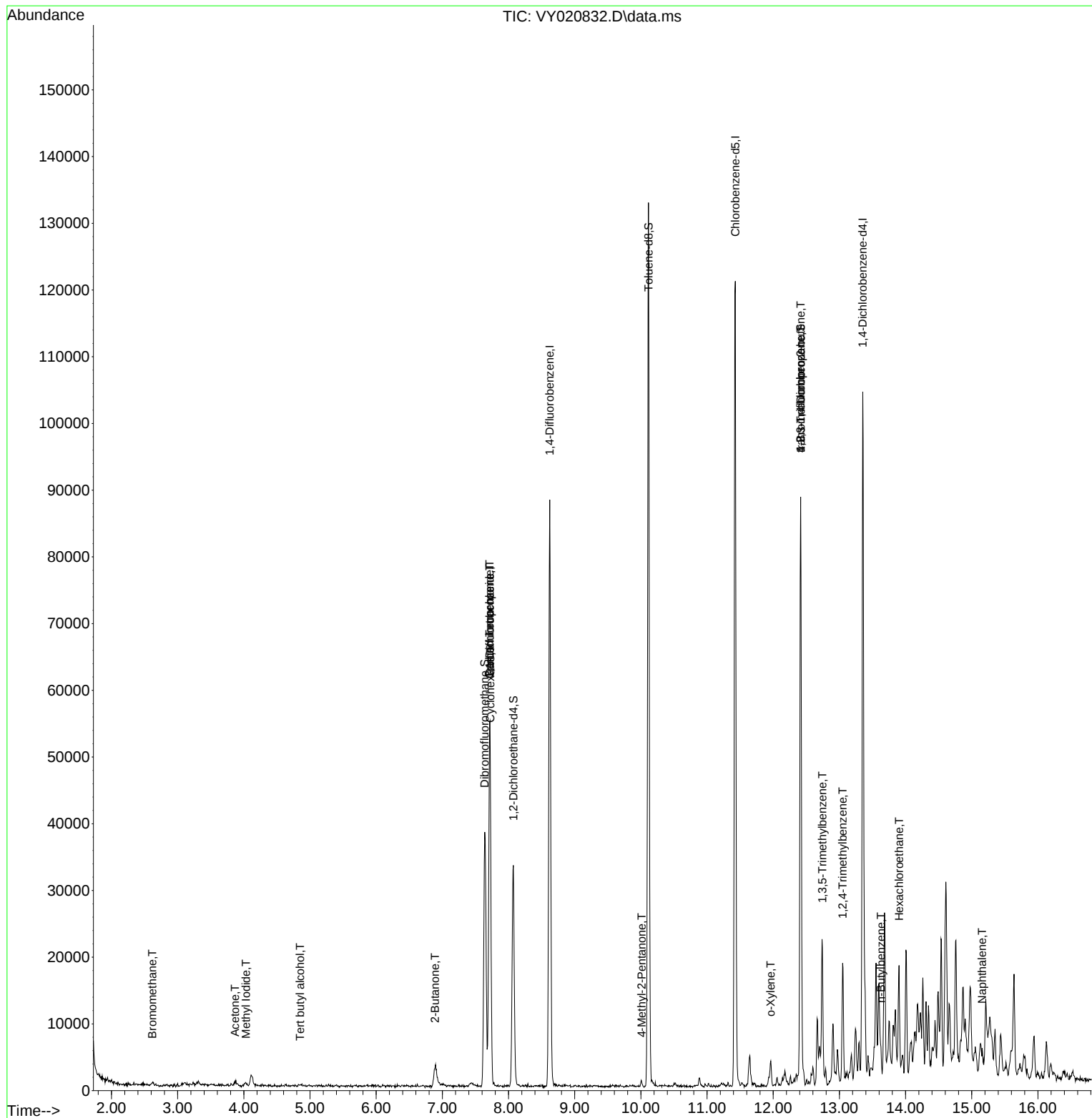
Target Compounds			Qvalue			
5) Bromomethane	2.617	94	152	1.089	ug/l #	76
10) Methyl Iodide	4.031	142	714	1.641	ug/l #	80
11) Tert butyl alcohol	4.848	59	352	12.017	ug/l #	73
16) Acetone	3.866	43	1197	21.714	ug/l	97
25) 2-Butanone	6.890	43	237	2.617	ug/l #	45
31) Cyclohexane	7.726	56	823	1.459	ug/l #	16
36) 1,1-Dichloropropene	7.713	75	3080	4.920	ug/l #	46
38) Carbon Tetrachloride	7.713	117	4426	5.079	ug/l #	18
51) 4-Methyl-2-Pentanone	10.012	43	512	2.022	ug/l	94
69) o-Xylene	11.963	106	1125	1.154	ug/l	92
76) 1,2,3-Trichloropropane	12.414	75	14020	58.324	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.743	105	4007	2.269	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.414	75	14020	122.977	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.048	105	9476	5.494	ug/l	95
89) n-Butylbenzene	13.627	91	1888	1.106	ug/l #	75
90) Hexachloroethane	13.901	117	768	1.943	ug/l #	6
95) Naphthalene	15.157	128	1467	1.814	ug/l	97

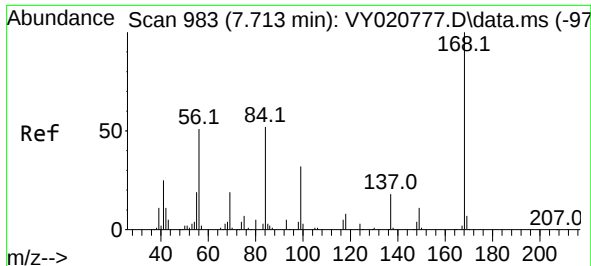
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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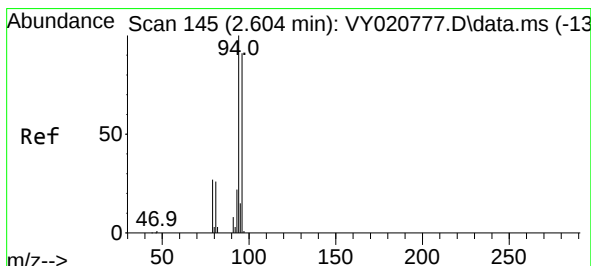
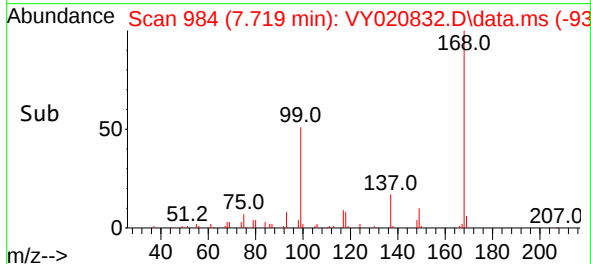
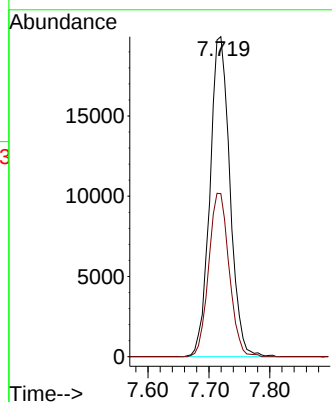
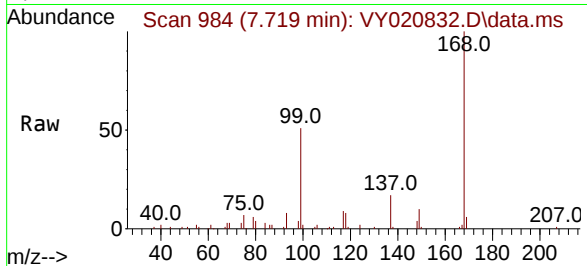




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

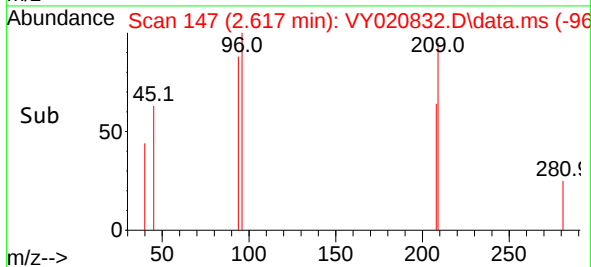
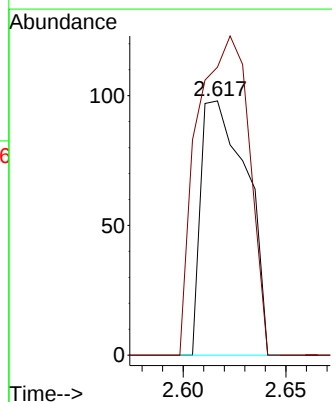
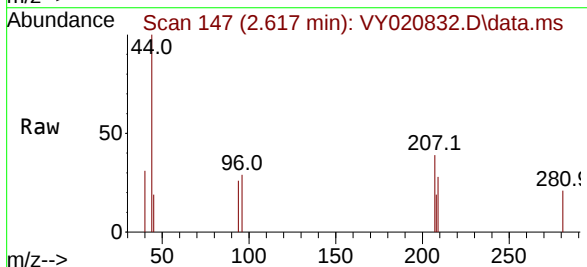
Instrument :
MSVOA_Y
ClientSampleId :

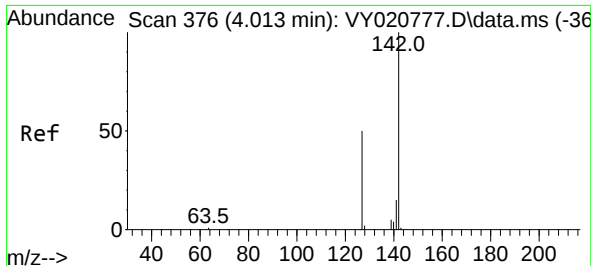
Tgt Ion:168 Resp: 45608
Ion Ratio Lower Upper
168 100
99 51.0 44.3 66.5



#5
Bromomethane
Concen: 1.089 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.012 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

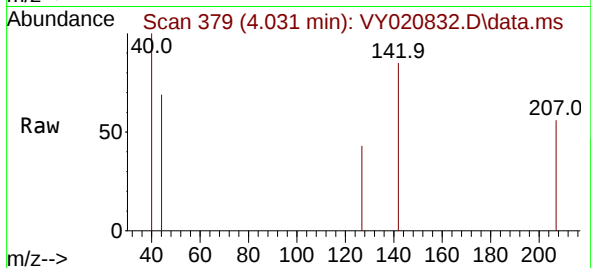
Tgt Ion: 94 Resp: 152
Ion Ratio Lower Upper
94 100
96 113.3 72.6 109.0#



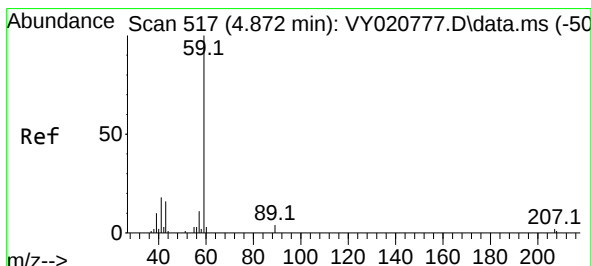
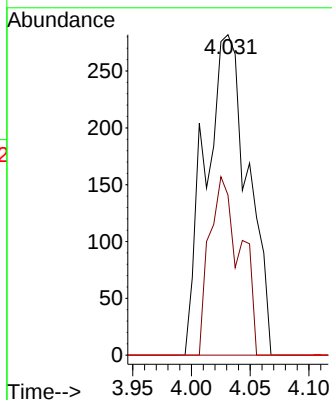
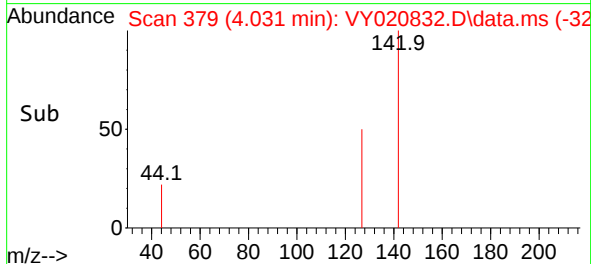


#10
Methyl Iodide
Concen: 1.641 ug/l
RT: 4.031 min Scan# 31
Delta R.T. 0.018 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

Instrument :
MSVOA_Y
ClientSampleId :

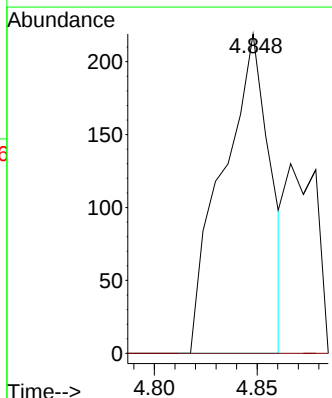
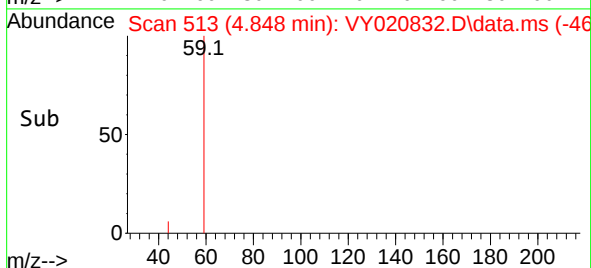
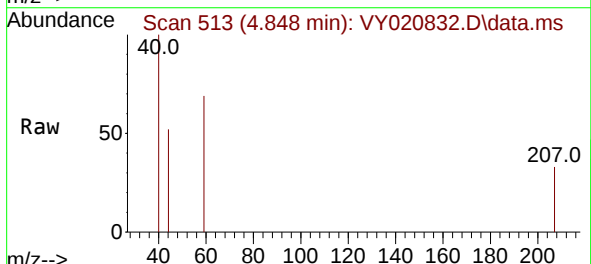


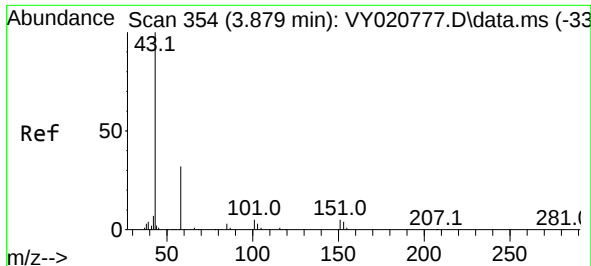
Tgt Ion:142 Resp: 714
Ion Ratio Lower Upper
142 100
127 40.5 41.0 61.6#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 12.017 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.024 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

Tgt Ion: 59 Resp: 352
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#

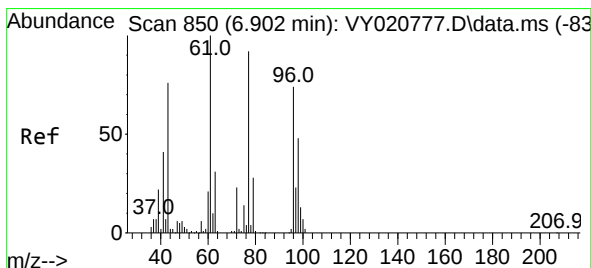
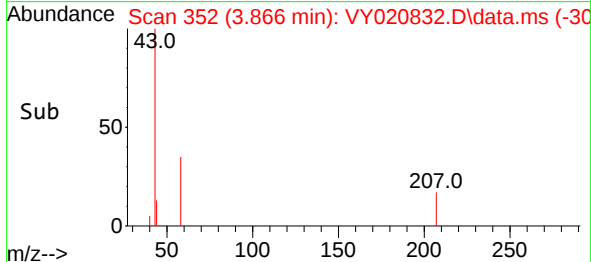
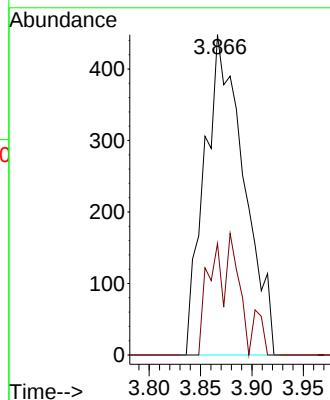
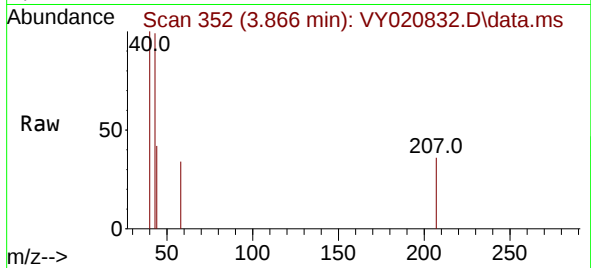




#16
Acetone
Concen: 21.714 ug/l
RT: 3.866 min Scan# 311
Delta R.T. -0.012 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

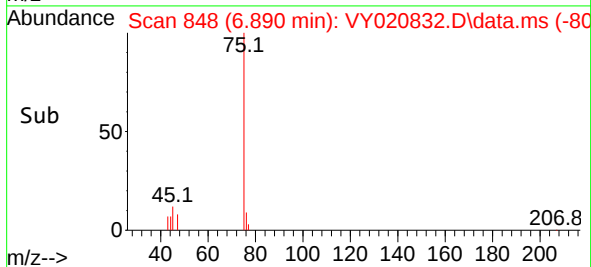
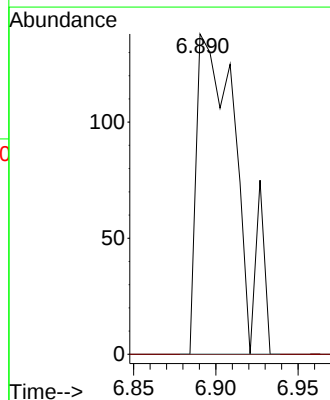
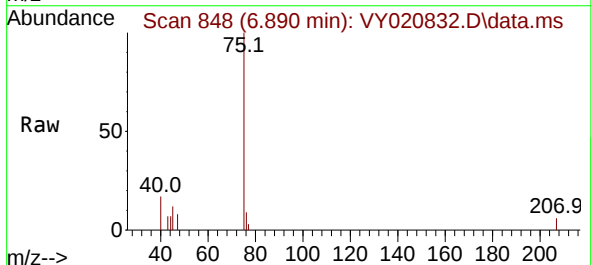
Instrument :
MSVOA_Y
ClientSampleId :

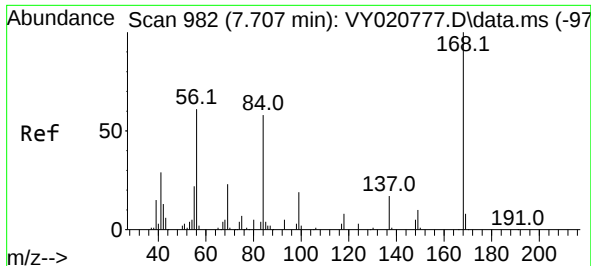
Tgt Ion: 43 Resp: 1197
Ion Ratio Lower Upper
43 100
58 34.8 26.7 40.1



#25
2-Butanone
Concen: 2.617 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

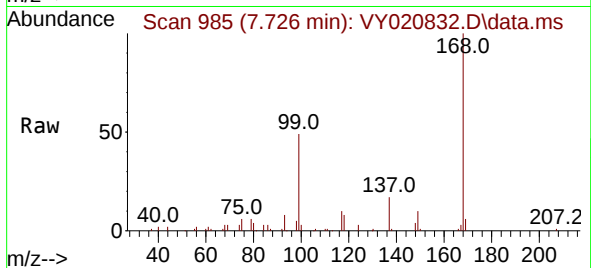
Tgt Ion: 43 Resp: 237
Ion Ratio Lower Upper
43 100
72 0.0 24.0 36.0#



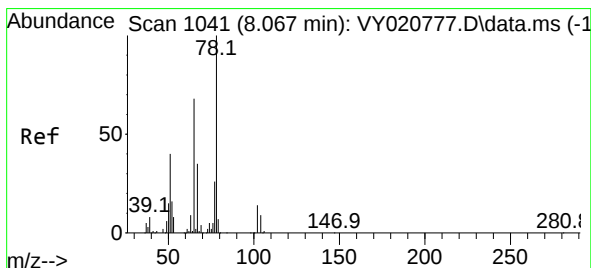
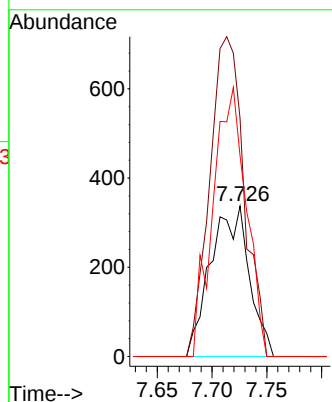
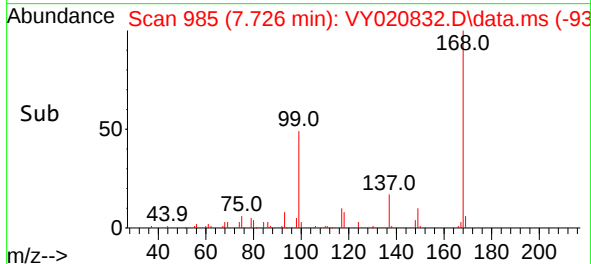


#31
Cyclohexane
Concen: 1.459 ug/l
RT: 7.726 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

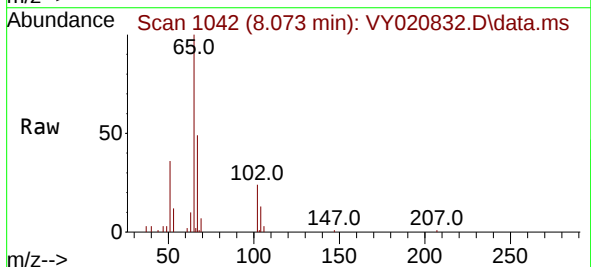
Instrument :
MSVOA_Y
ClientSampleId :



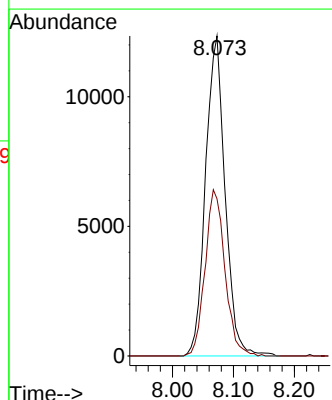
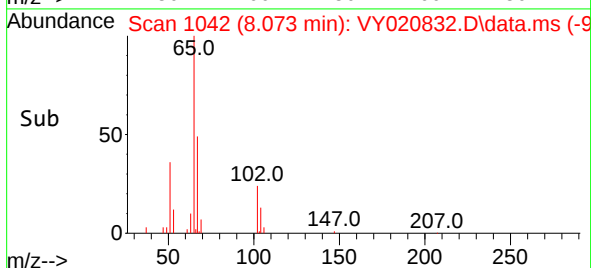
Tgt Ion: 56 Resp: 823
Ion Ratio Lower Upper
56 100
69 158.5 30.5 45.7#
84 133.5 76.6 115.0#

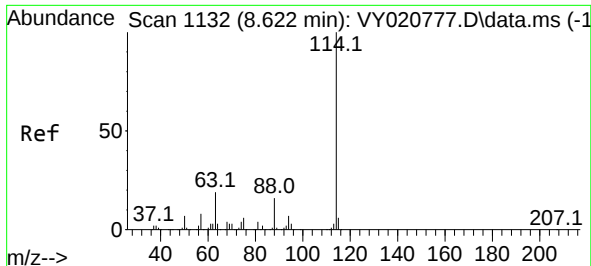


#33
1,2-Dichloroethane-d4
Concen: 70.857 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.006 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15



Tgt Ion: 65 Resp: 27468
Ion Ratio Lower Upper
65 100
67 52.9 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VY020832.D

Acq: 15 Jan 2025 13:15

Instrument :

MSVOA_Y

ClientSampleId :

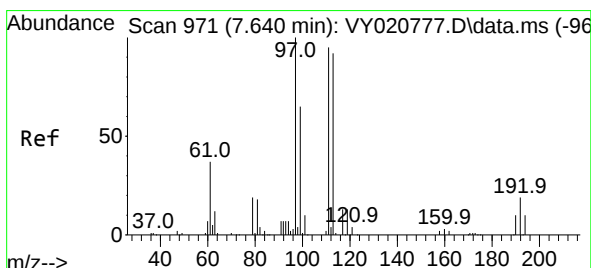
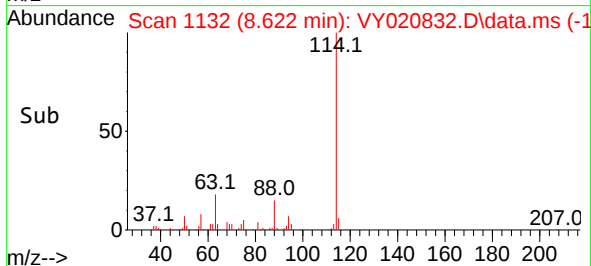
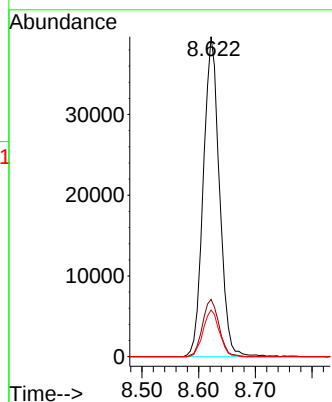
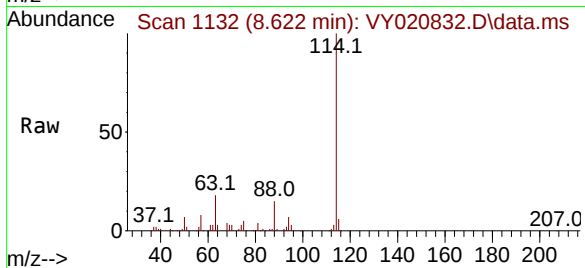
Tgt Ion:114 Resp: 78347

Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.4

88 14.6 0.0 31.2



#35

Dibromofluoromethane

Concen: 56.102 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.000 min

Lab File: VY020832.D

Acq: 15 Jan 2025 13:15

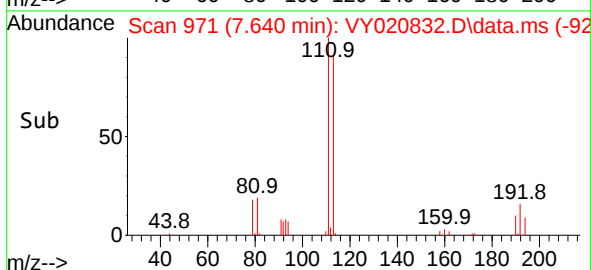
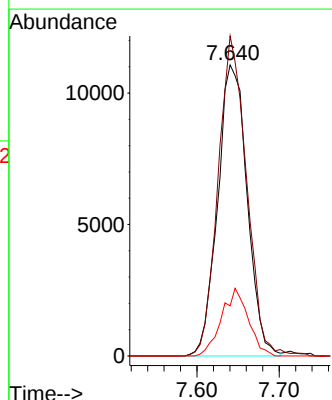
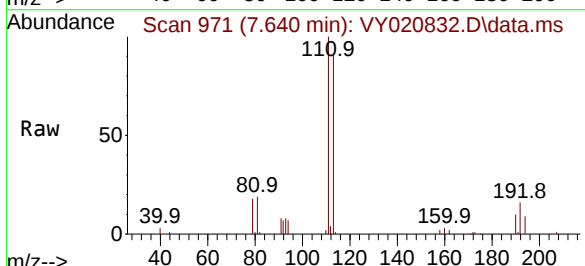
Tgt Ion:113 Resp: 27537

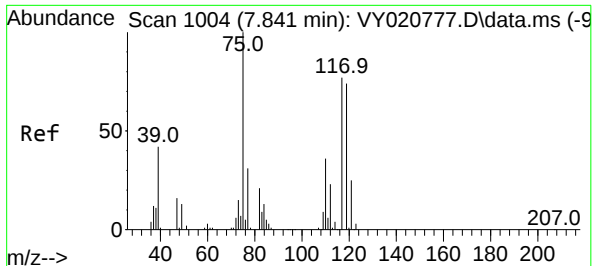
Ion Ratio Lower Upper

113 100

111 106.5 81.7 122.5

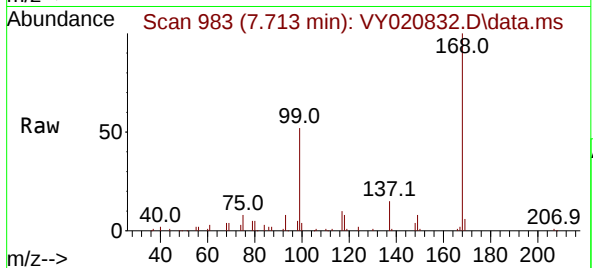
192 21.2 16.7 25.1



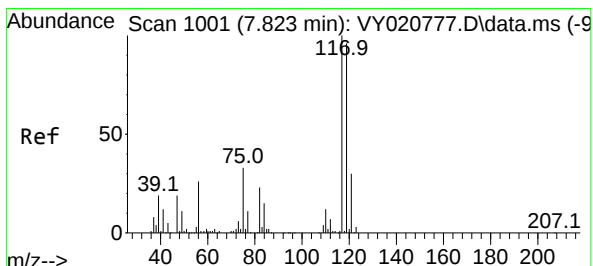
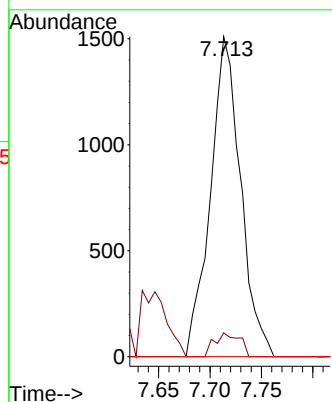
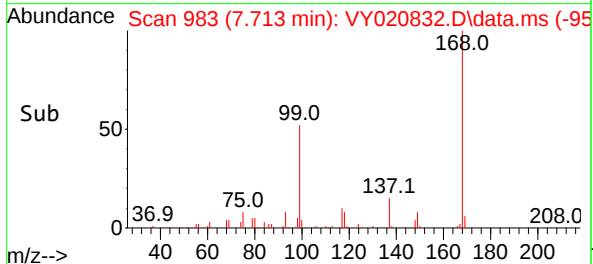


#36
 1,1-Dichloropropene
 Concen: 4.920 ug/l
 RT: 7.713 min Scan# 983
 Delta R.T. -0.128 min
 Lab File: VY020832.D
 Acq: 15 Jan 2025 13:15

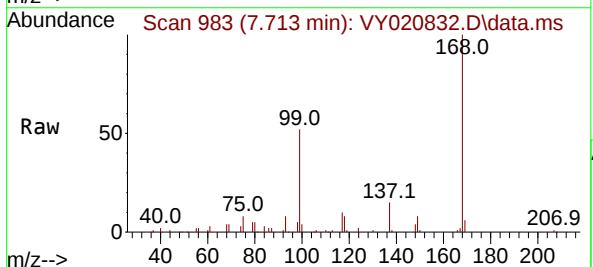
Instrument :
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 ClientSampleId :



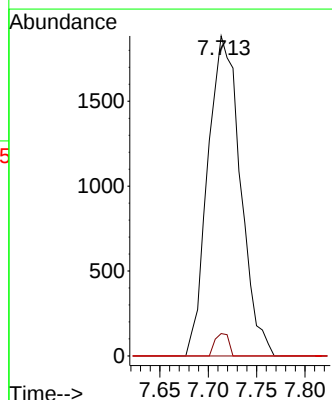
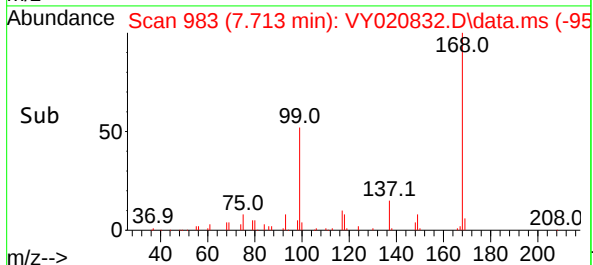
Tgt Ion: 75 Resp: 3080
 Ion Ratio Lower Upper
 75 100
 110 6.2 18.5 55.5#
 77 0.0 25.0 37.4#

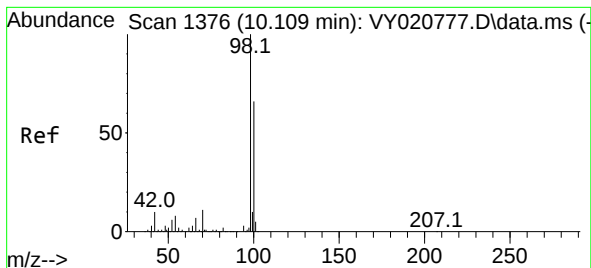


#38
 Carbon Tetrachloride
 Concen: 5.079 ug/l
 RT: 7.713 min Scan# 983
 Delta R.T. -0.110 min
 Lab File: VY020832.D
 Acq: 15 Jan 2025 13:15



Tgt Ion: 117 Resp: 4426
 Ion Ratio Lower Upper
 117 100
 119 7.0 76.5 114.7#
 121 0.0 24.3 36.5#





#50

Toluene-d8

Concen: 53.344 ug/l

RT: 10.115 min Scan# 1377

Delta R.T. 0.006 min

Lab File: VY020832.D

Acq: 15 Jan 2025 13:15

Instrument :

MSVOA_Y

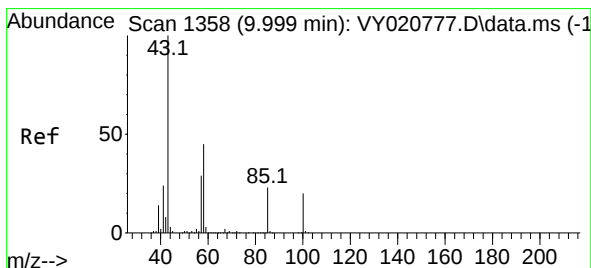
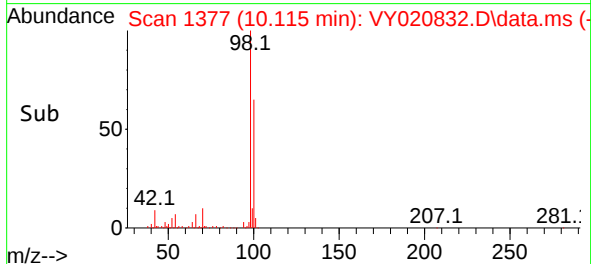
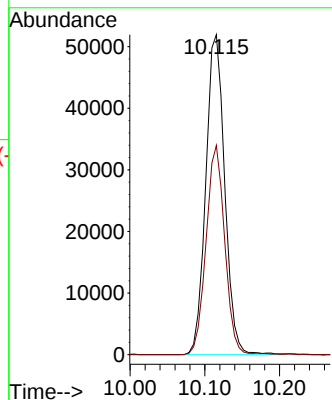
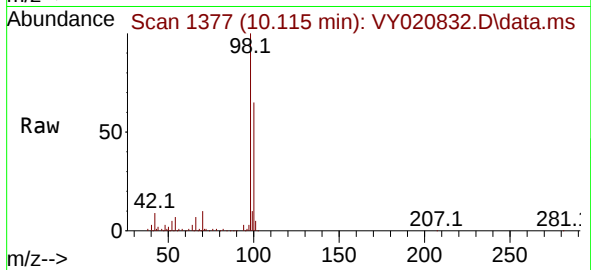
ClientSampleId :

Tgt Ion: 98 Resp: 91275

Ion Ratio Lower Upper

98 100

100 64.2 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 2.022 ug/l

RT: 10.012 min Scan# 1360

Delta R.T. 0.012 min

Lab File: VY020832.D

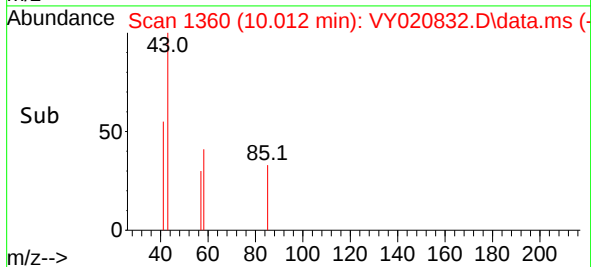
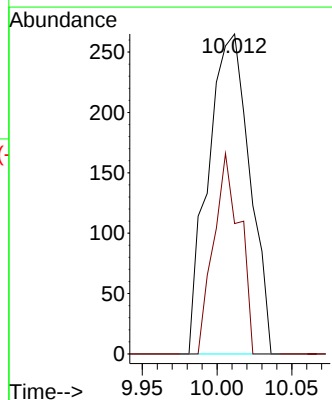
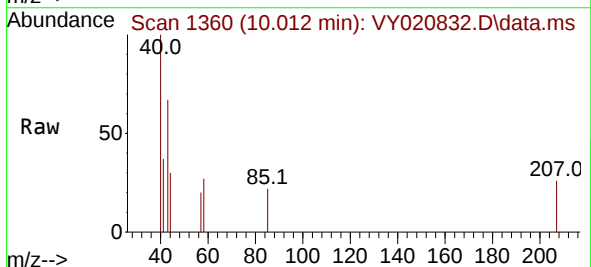
Acq: 15 Jan 2025 13:15

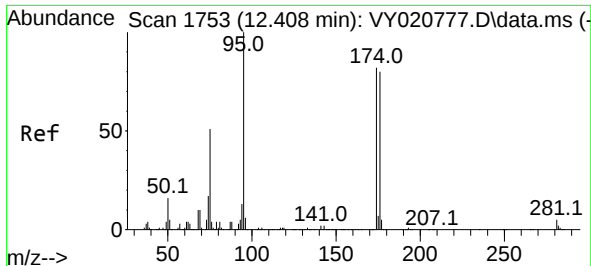
Tgt Ion: 43 Resp: 512

Ion Ratio Lower Upper

43 100

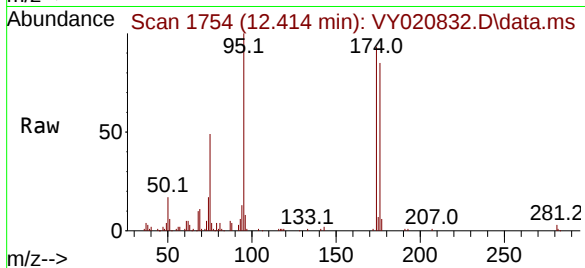
58 39.5 34.8 52.2



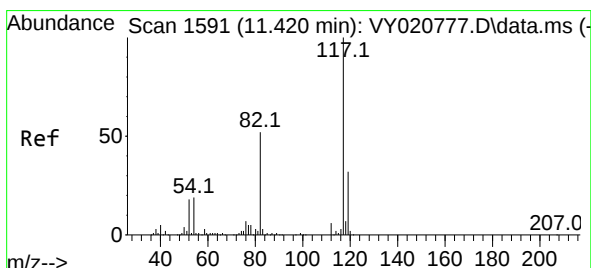
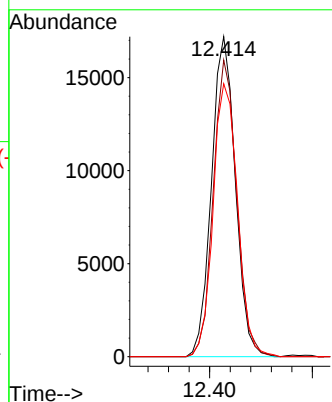
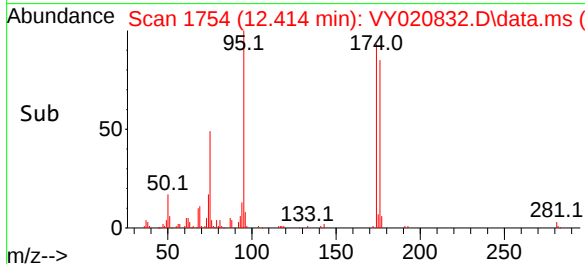


#62
4-Bromofluorobenzene
Concen: 43.897 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

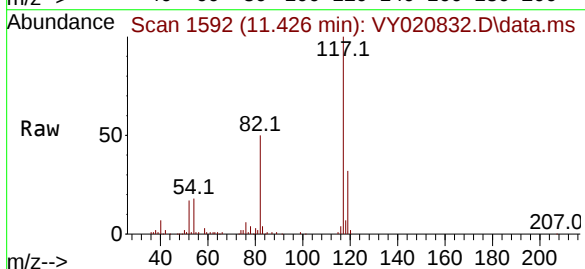
Instrument :
MSVOA_Y
ClientSampleId :



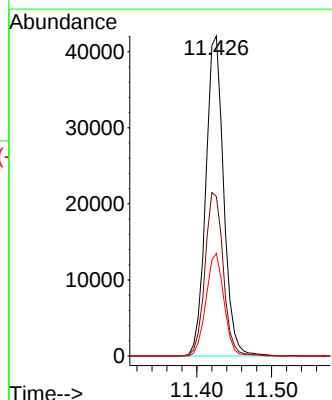
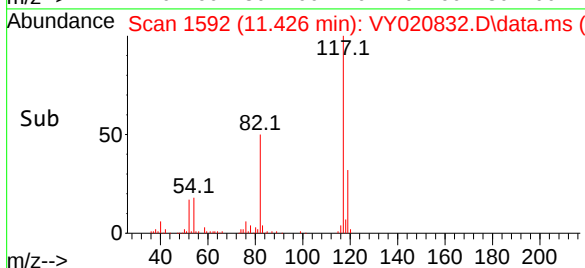
Tgt Ion: 95 Resp: 27737
Ion Ratio Lower Upper
95 100
174 91.0 0.0 178.0
176 87.5 0.0 172.0

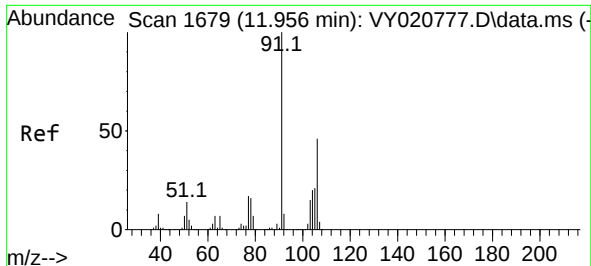


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1592
Delta R.T. 0.006 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15



Tgt Ion: 117 Resp: 69761
Ion Ratio Lower Upper
117 100
82 49.8 41.8 62.6
119 32.1 25.8 38.8

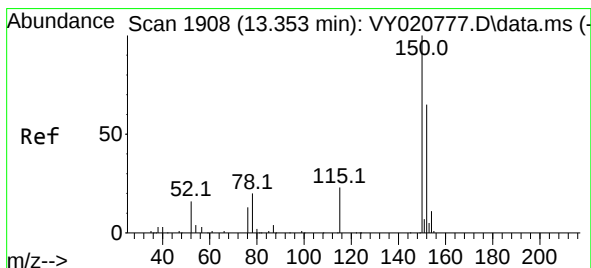
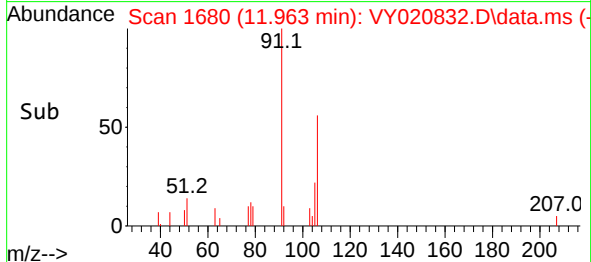
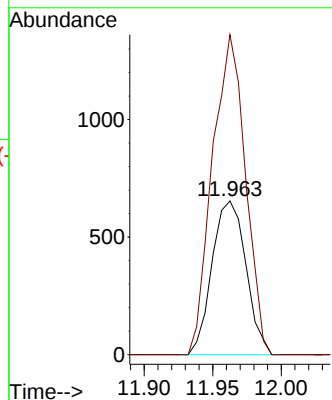
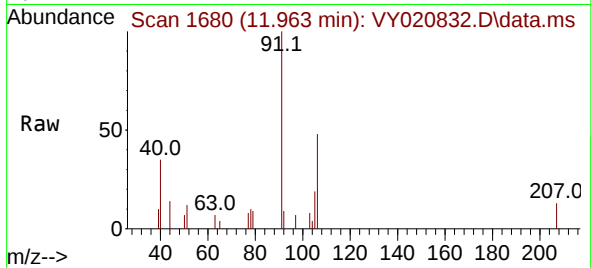




#69
o-Xylene
Concen: 1.154 ug/l
RT: 11.963 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

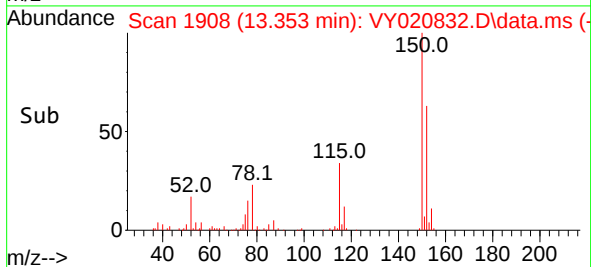
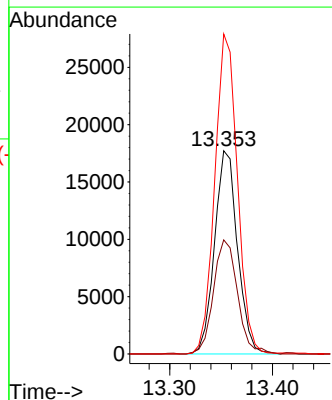
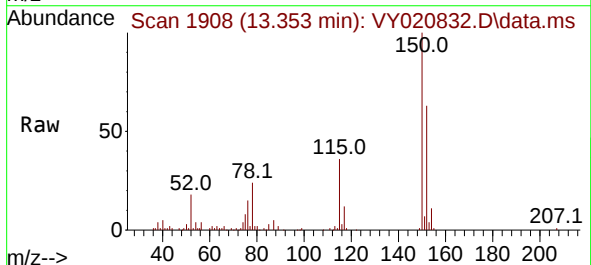
Instrument :
MSVOA_Y
ClientSampleId :

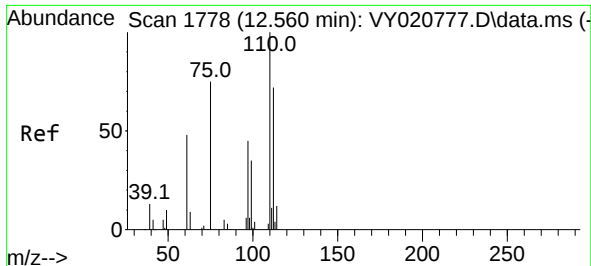
Tgt Ion:106 Resp: 1125
Ion Ratio Lower Upper
106 100
91 202.9 108.2 324.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

Tgt Ion:152 Resp: 27473
Ion Ratio Lower Upper
152 100
115 58.8 29.0 87.0
150 155.1 0.0 347.4

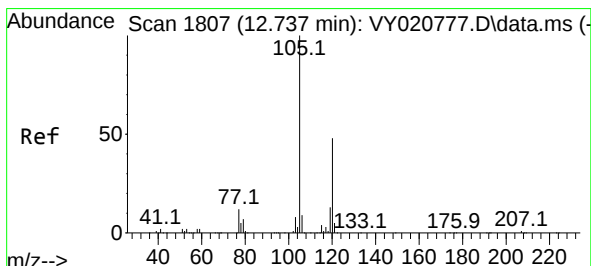
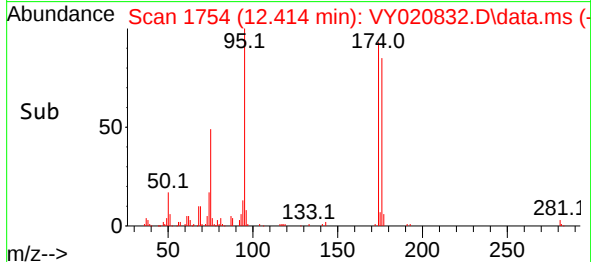
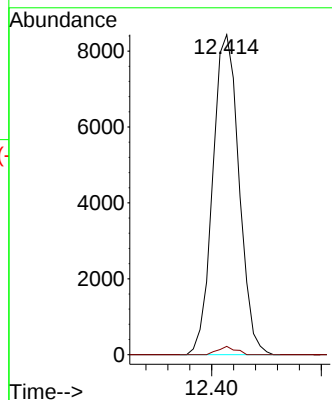
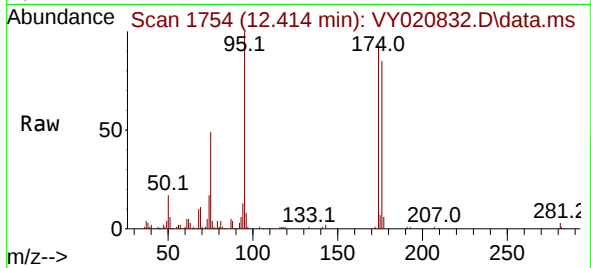




#76
1,2,3-Trichloropropane
Concen: 58.324 ug/l
RT: 12.414 min Scan# 11
Delta R.T. -0.146 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

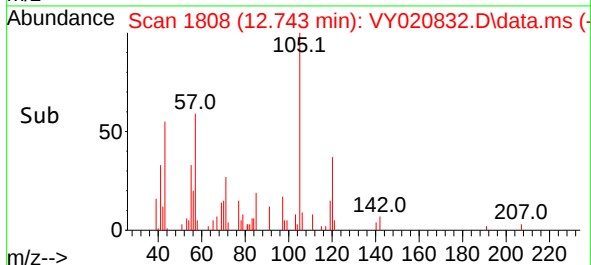
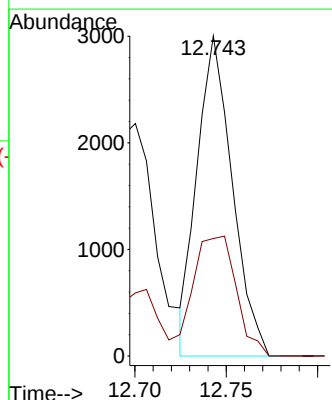
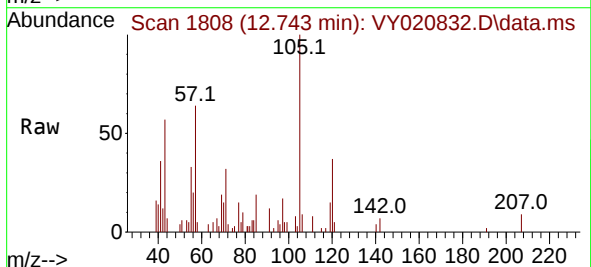
Instrument :
MSVOA_Y
ClientSampleId :

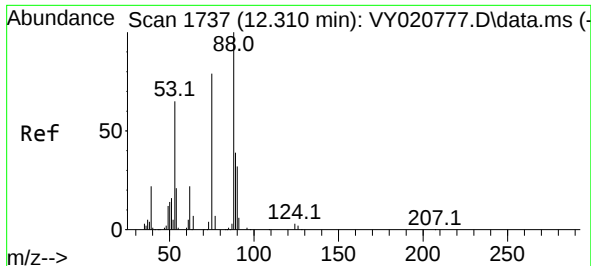
Tgt Ion: 75 Resp: 14020
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 2.269 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

Tgt Ion: 105 Resp: 4007
Ion Ratio Lower Upper
105 100
120 46.4 24.5 73.5

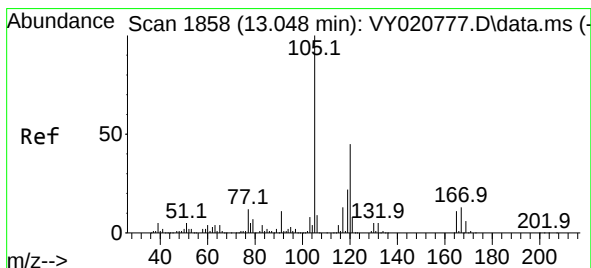
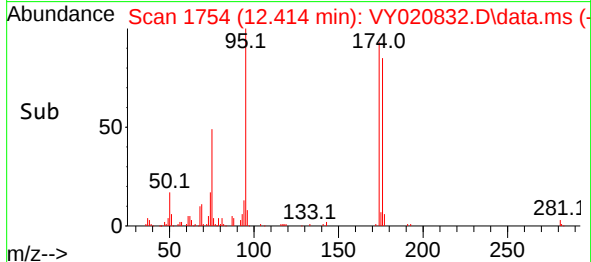
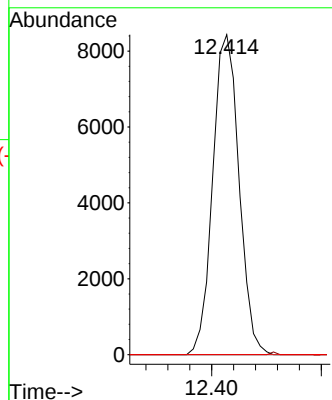
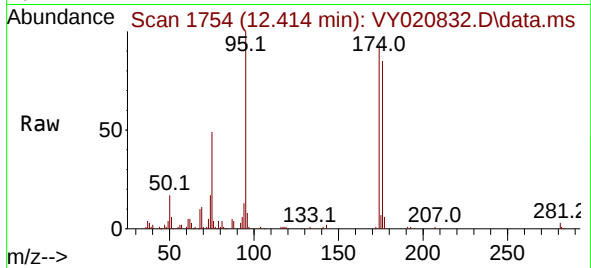




#81
trans-1,4-Dichloro-2-butene
Concen: 122.977 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.104 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

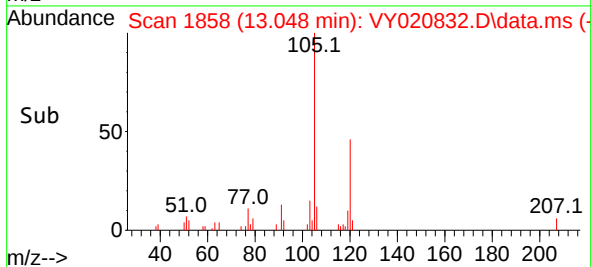
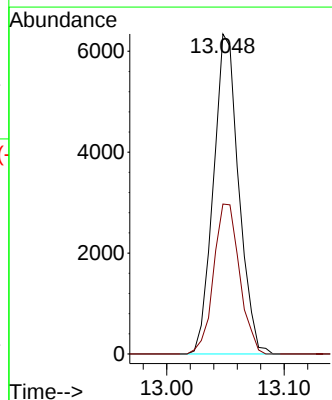
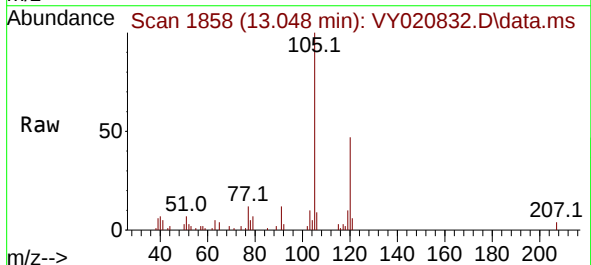
Instrument :
MSVOA_Y
ClientSampleId :

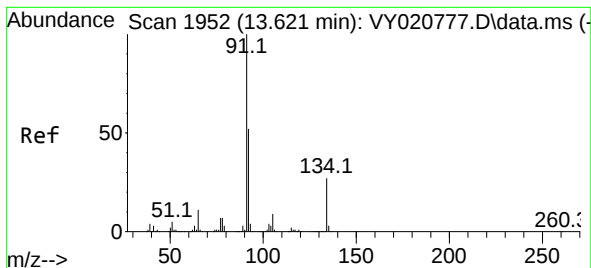
Tgt Ion: 75 Resp: 14020
Ion Ratio Lower Upper
75 100
53 0.0 69.4 104.0#
89 0.0 39.6 59.4#



#84
1,2,4-Trimethylbenzene
Concen: 5.494 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.000 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

Tgt Ion:105 Resp: 9476
Ion Ratio Lower Upper
105 100
120 48.1 22.4 67.2





#89

n-Butylbenzene

Concen: 1.106 ug/l

RT: 13.627 min Scan# 1952

Delta R.T. 0.006 min

Lab File: VY020832.D

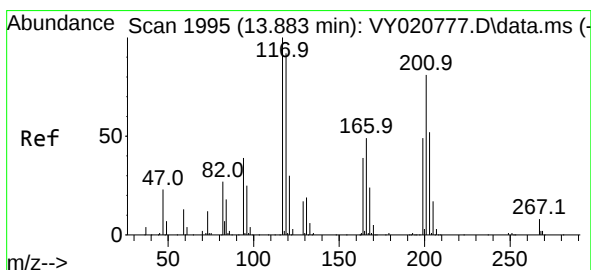
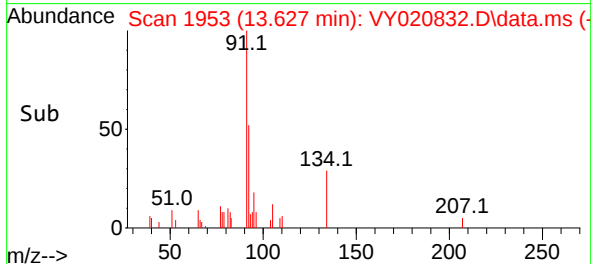
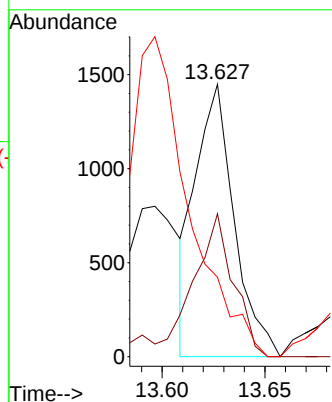
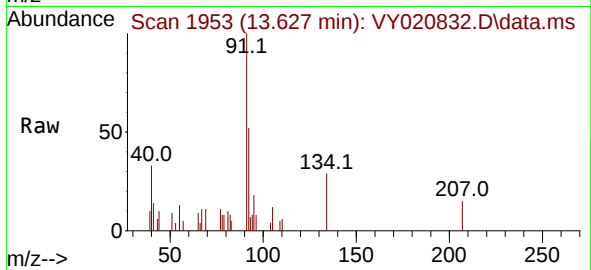
Acq: 15 Jan 2025 13:15

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 91	Resp:	1888
Ion Ratio	Lower	Upper
91	100	
92	60.2	26.5 79.4
134	0.0	13.8 41.4#



#90

Hexachloroethane

Concen: 1.943 ug/l

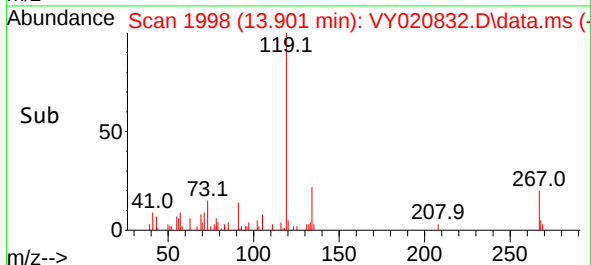
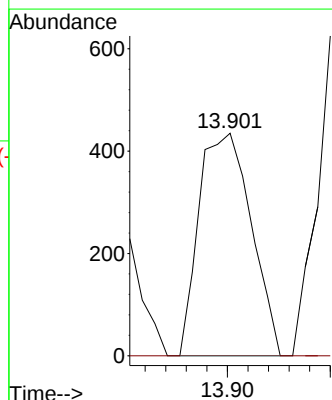
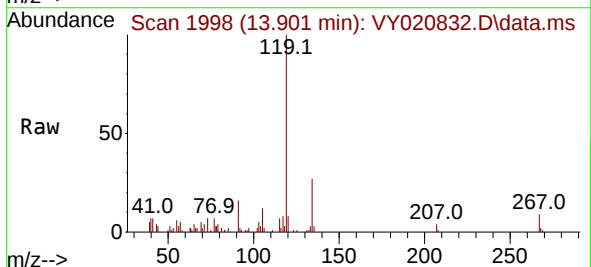
RT: 13.901 min Scan# 1998

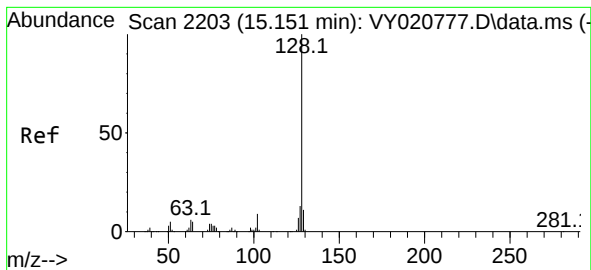
Delta R.T. 0.018 min

Lab File: VY020832.D

Acq: 15 Jan 2025 13:15

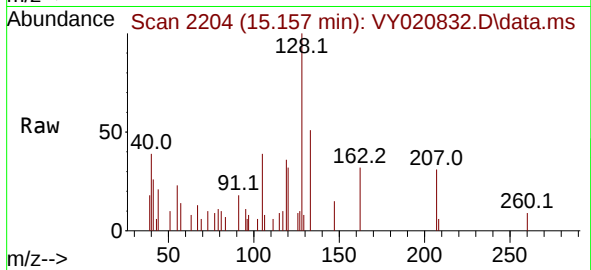
Tgt Ion: 117	Resp:	768
Ion Ratio	Lower	Upper
117	100	
201	0.0	42.9 128.7#





#95
Naphthalene
Concen: 1.814 ug/l
RT: 15.157 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY020832.D
Acq: 15 Jan 2025 13:15

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:	128	Resp:	1467
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.5	15.7
129	11.9	8.6	12.8

