

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032625\
 Data File : VY021649.D
 Acq On : 26 Mar 2025 16:11
 Operator : SY/MD
 Sample : Q1645-03
 Misc : 4.10g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-4-VOC

Quant Time: Mar 27 01:32:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

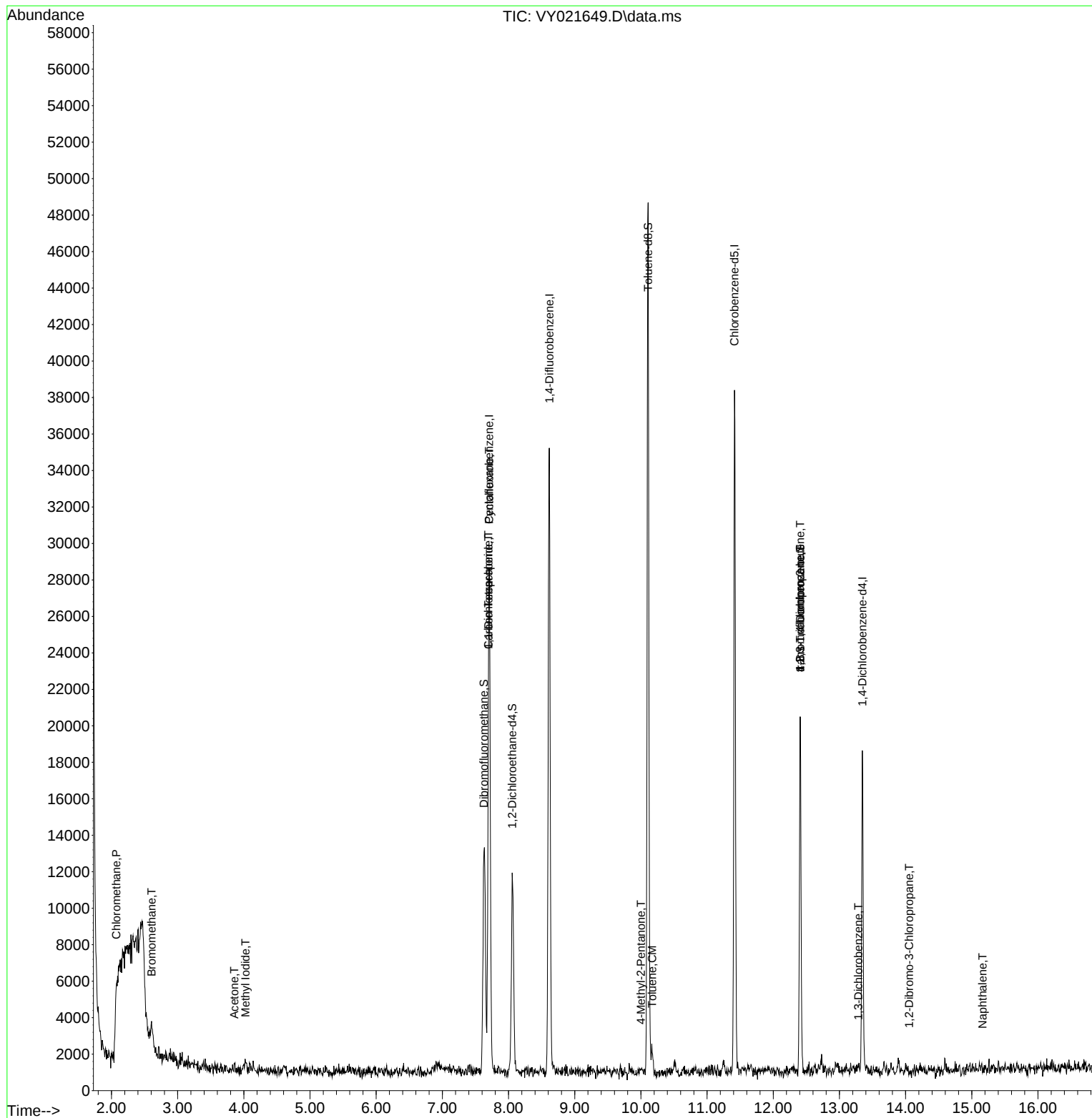
Internal Standards						
1) Pentafluorobenzene	7.707	168	20973	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	28734	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	19531	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	4245	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	8970	40.465	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	80.940%
35) Dibromofluoromethane	7.628	113	9192	48.668	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.340%
50) Toluene-d8	10.109	98	32150	44.957	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	89.920%
62) 4-Bromofluorobenzene	12.407	95	5572	22.906	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	45.820%
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	584	2.152	ug/l	97
5) Bromomethane	2.604	94	535	2.496	ug/l	95
10) Methyl Iodide	4.025	142	648	2.698	ug/l #	92
11) Tert butyl alcohol	4.842	59	35	Below Cal	#	1
16) Acetone	3.854	43	342	7.074	ug/l #	47
31) Cyclohexane	7.707	56	420	1.012	ug/l #	25
36) 1,1-Dichloropropene	7.695	75	1934	6.542	ug/l #	44
38) Carbon Tetrachloride	7.695	117	2255	6.632	ug/l #	12
51) 4-Methyl-2-Pentanone	9.999	43	144	1.100	ug/l #	36
52) Toluene	10.170	92	560	1.020	ug/l #	70
76) 1,2,3-Trichloropropane	12.407	75	3257	76.140	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	3257	173.091	ug/l #	9
87) 1,3-Dichlorobenzene	13.285	146	186	1.194	ug/l #	58
92) 1,2-Dibromo-3-Chloropr...	14.053	75	46	5.204	ug/l #	1
95) Naphthalene	15.163	128	125	2.534	ug/l #	69

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

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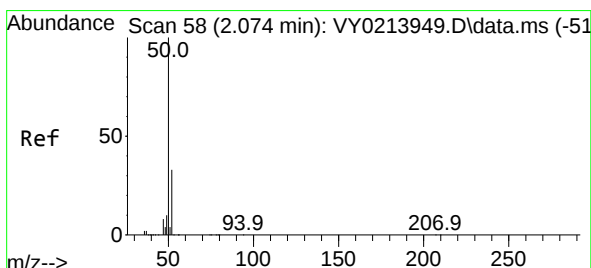
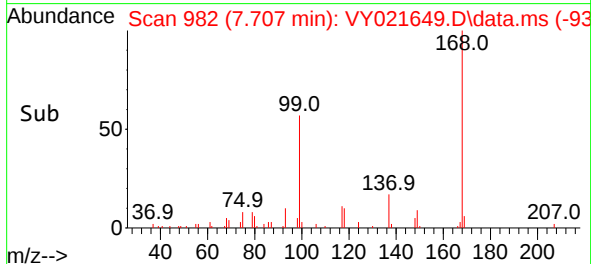
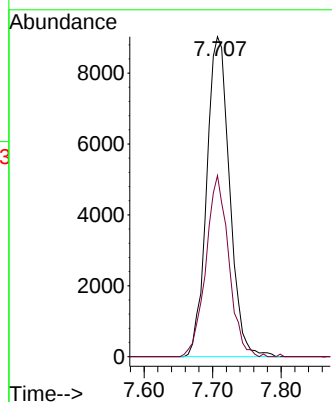
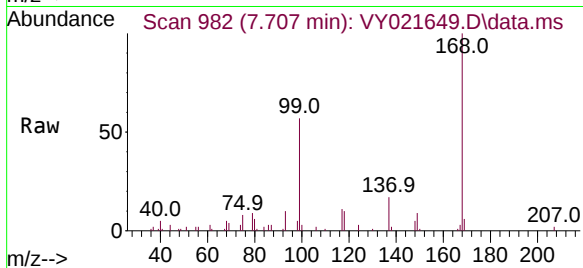




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

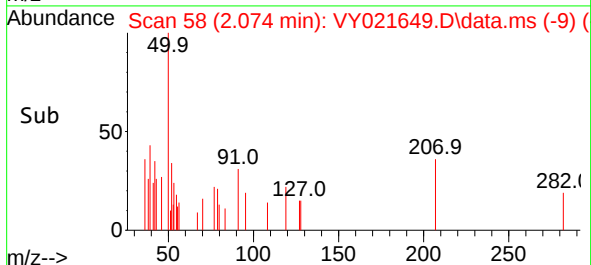
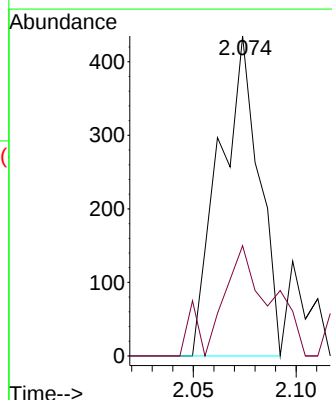
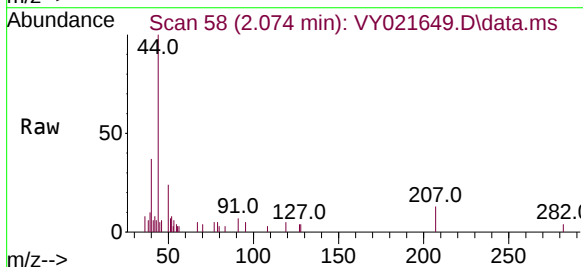
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

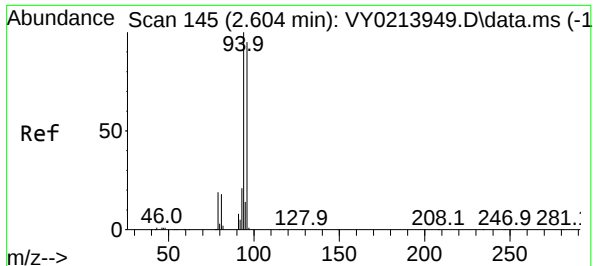
Tgt Ion:168 Resp: 20973
Ion Ratio Lower Upper
168 100
99 56.6 46.0 69.0



#3
Chloromethane
Concen: 2.152 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.000 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion: 50 Resp: 584
Ion Ratio Lower Upper
50 100
52 34.5 26.2 39.2

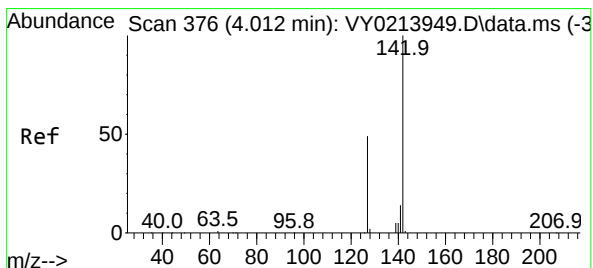
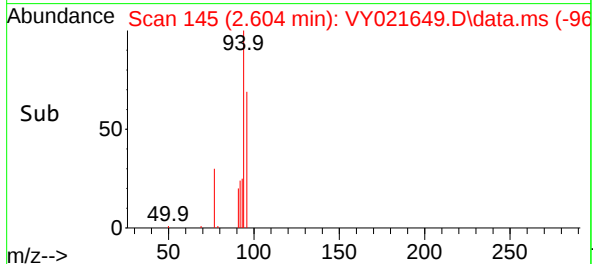
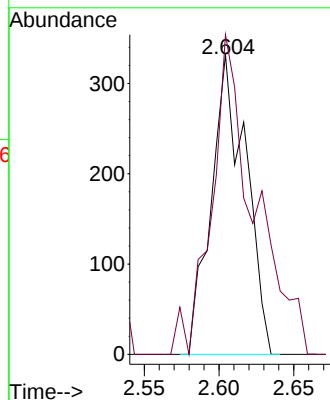
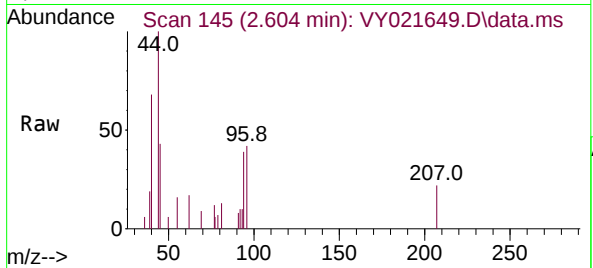




#5
Bromomethane
Concen: 2.496 ug/l
RT: 2.604 min Scan# 145
Delta R.T. 0.000 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

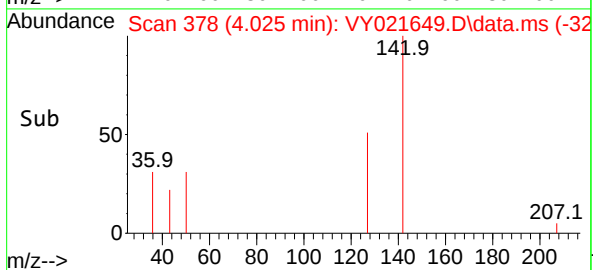
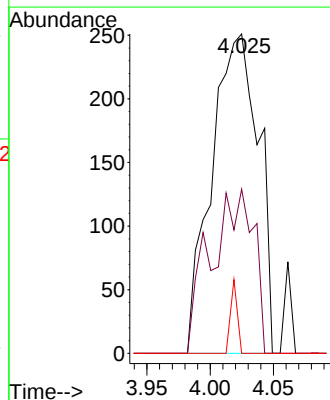
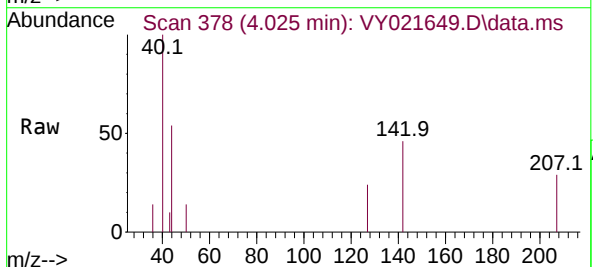
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

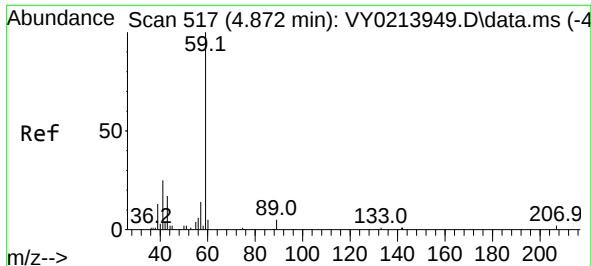
Tgt Ion: 94 Resp: 535
Ion Ratio Lower Upper
94 100
96 91.0 76.3 114.5



#10
Methyl Iodide
Concen: 2.698 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.012 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion: 142 Resp: 648
Ion Ratio Lower Upper
142 100
127 47.2 39.1 58.7
141 3.2 11.8 17.6#

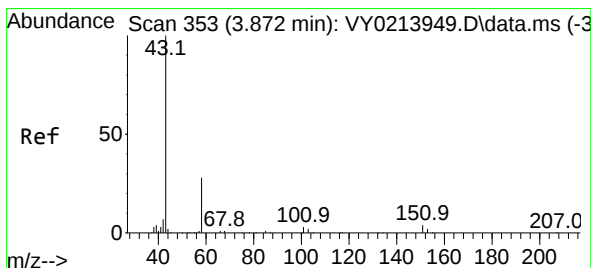
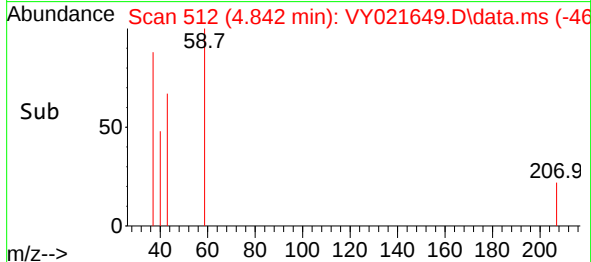
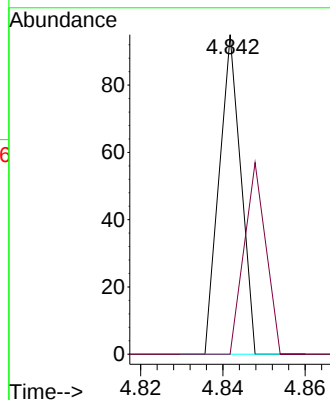
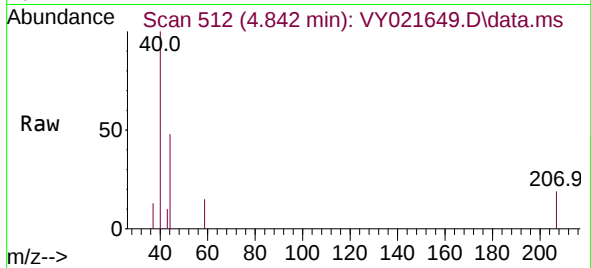




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.842 min Scan# 517
Delta R.T. -0.030 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

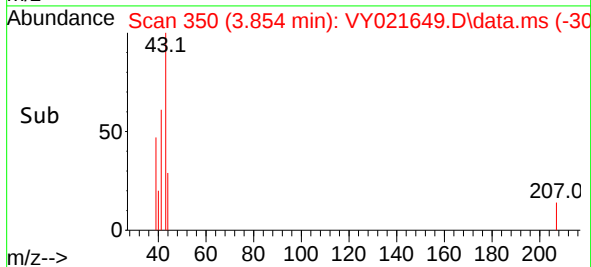
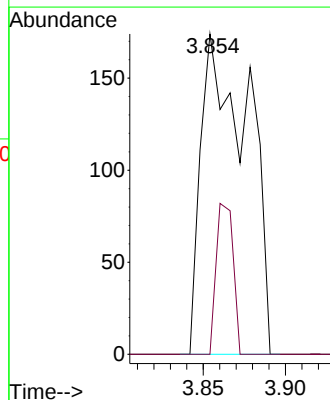
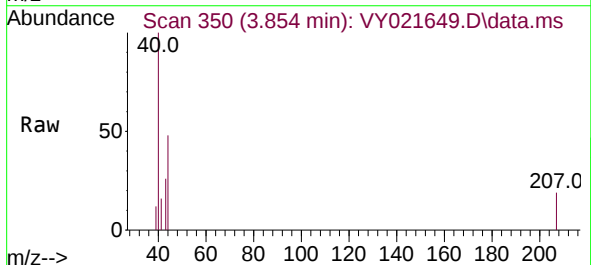
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

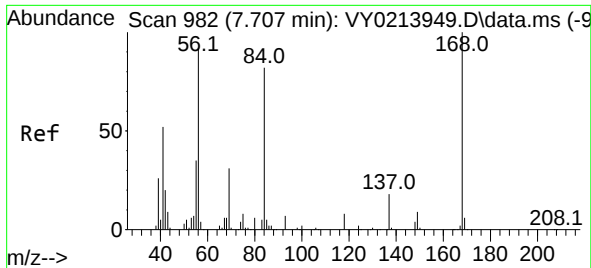
Tgt Ion: 59 Resp: 35
Ion Ratio Lower Upper
59 100
57 60.0 8.2 12.4#



#16
Acetone
Concen: 7.074 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.018 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion: 43 Resp: 342
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#

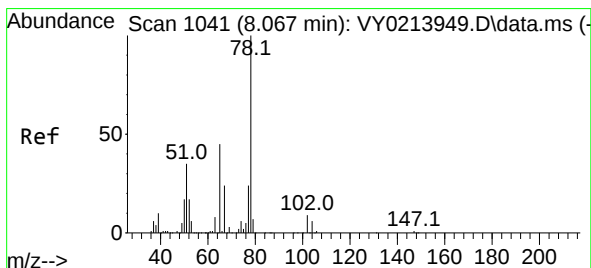
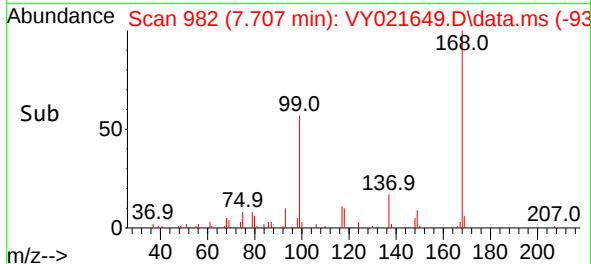
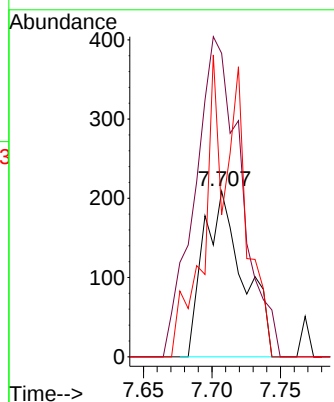
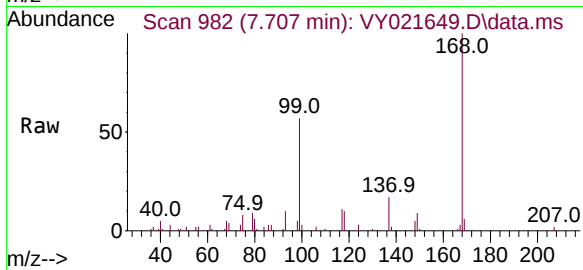




#31
Cyclohexane
Concen: 1.012 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

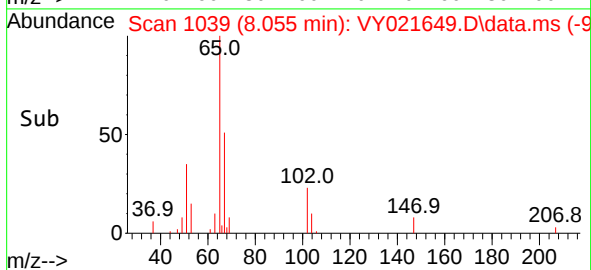
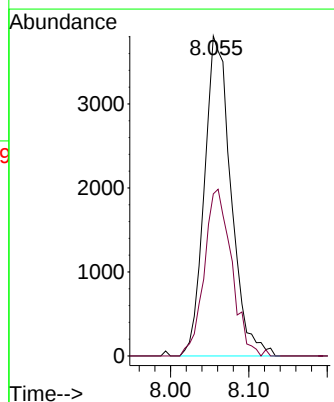
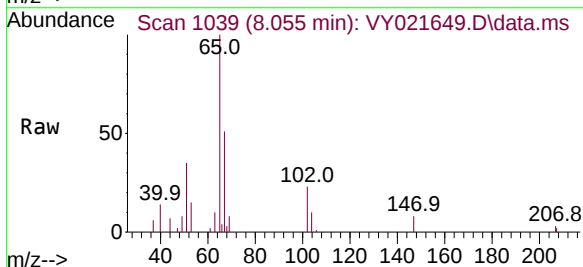
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

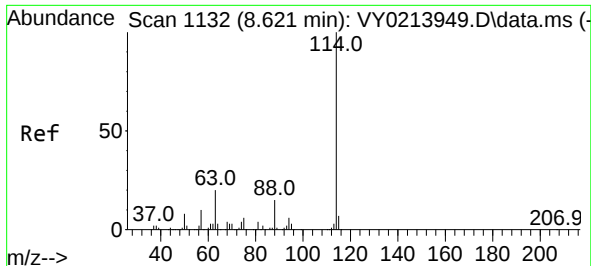
Tgt Ion: 56 Resp: 420
Ion Ratio Lower Upper
56 100
69 183.3 27.0 40.4#
84 85.6 71.1 106.7



#33
1,2-Dichloroethane-d4
Concen: 40.465 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion: 65 Resp: 8970
Ion Ratio Lower Upper
65 100
67 53.7 0.0 102.8

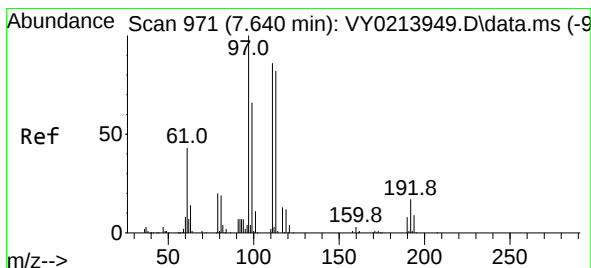
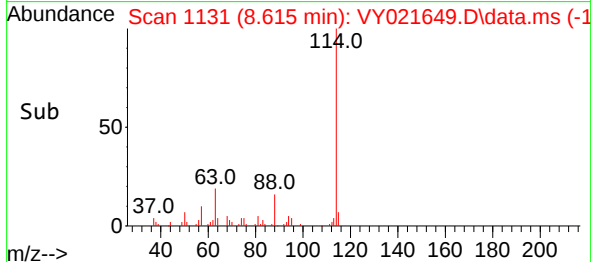
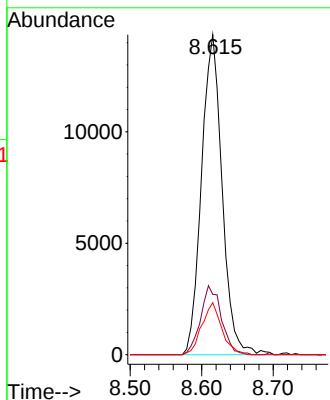
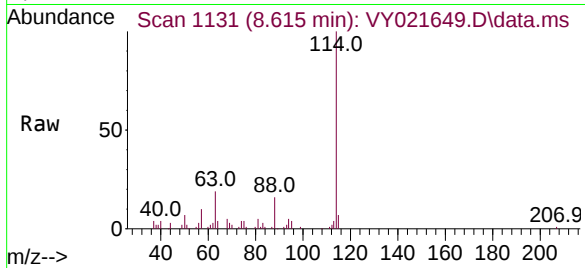




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

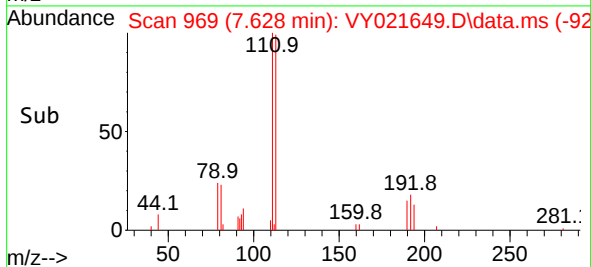
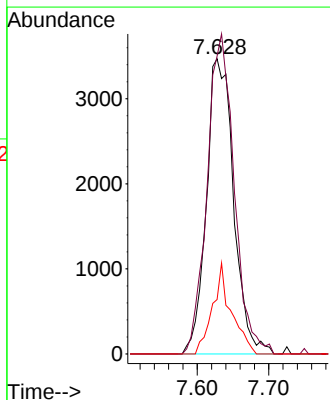
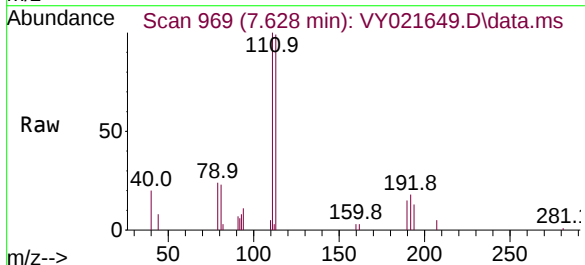
Instrument :
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TP-4-VOC

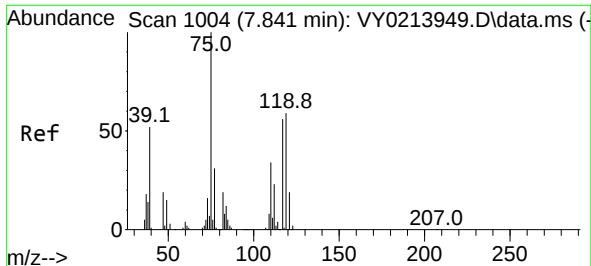
Tgt Ion:114	Resp:	28734
Ion Ratio	Lower	Upper
114	100	
63	18.9	0.0 40.8
88	16.3	0.0 30.8



#35
Dibromofluoromethane
Concen: 48.668 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.012 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion:113	Resp:	9192
Ion Ratio	Lower	Upper
113	100	
111	107.5	82.0 123.0
192	21.1	15.9 23.9





#36

1,1-Dichloropropene

Concen: 6.542 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.146 min

Lab File: VY021649.D

Acq: 26 Mar 2025 16:11

Instrument :

MSVOA_Y

ClientSampleId :

TP-4-VOC

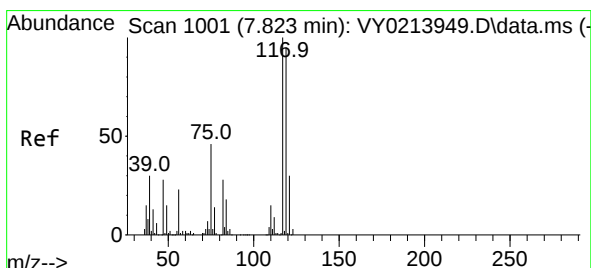
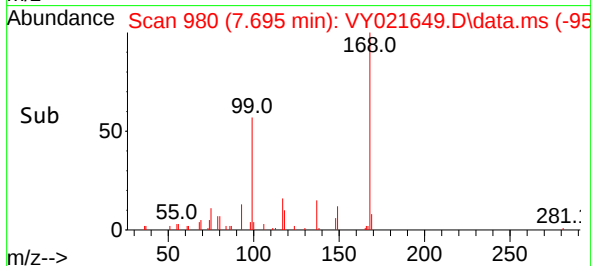
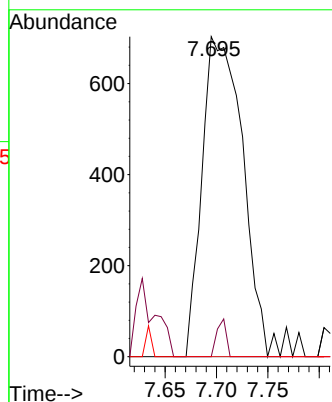
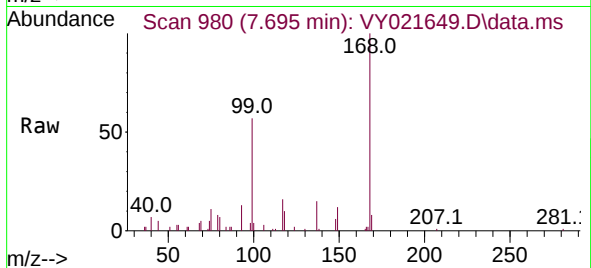
Tgt Ion: 75 Resp: 1934

Ion Ratio Lower Upper

75 100

110 2.7 17.3 51.7#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 6.632 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.128 min

Lab File: VY021649.D

Acq: 26 Mar 2025 16:11

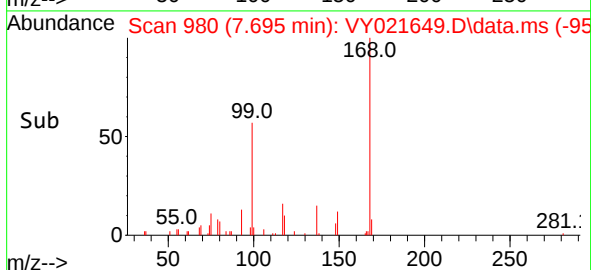
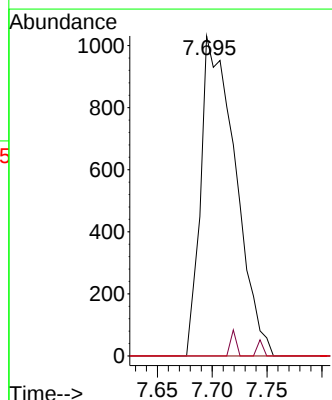
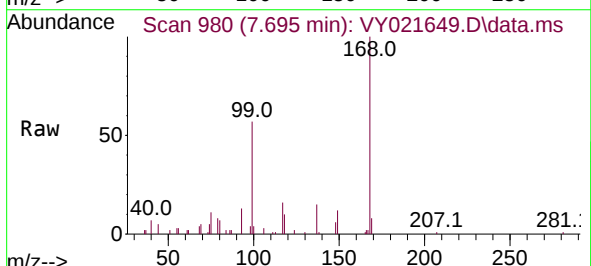
Tgt Ion: 117 Resp: 2255

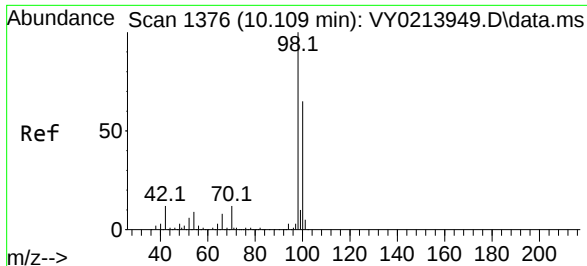
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#





#50

Toluene-d8

Concen: 44.957 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021649.D

Acq: 26 Mar 2025 16:11

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ClientSampleId :

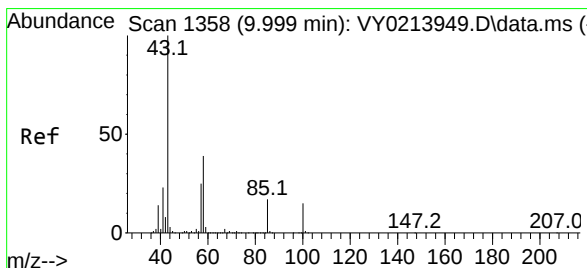
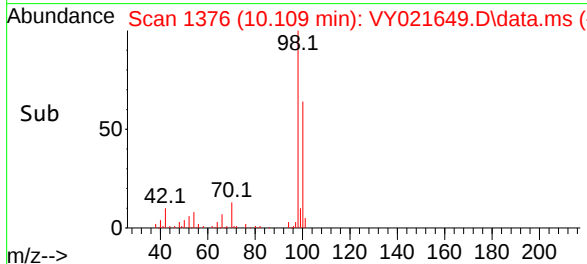
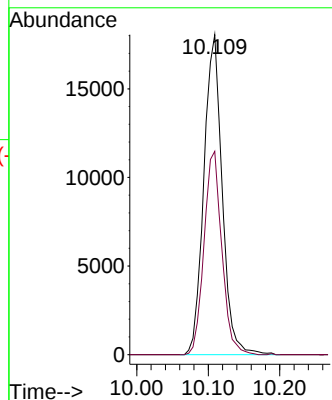
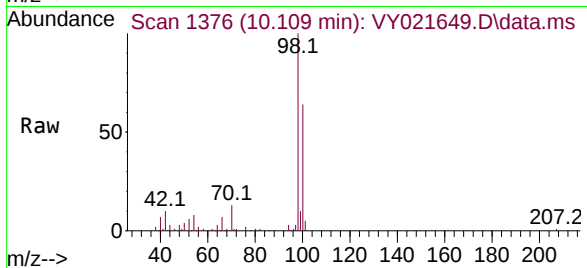
TP-4-VOC

Tgt Ion: 98 Resp: 32150

Ion Ratio Lower Upper

98 100

100 61.7 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 1.100 ug/l

RT: 9.999 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VY021649.D

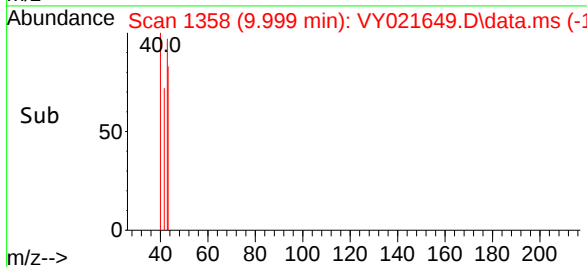
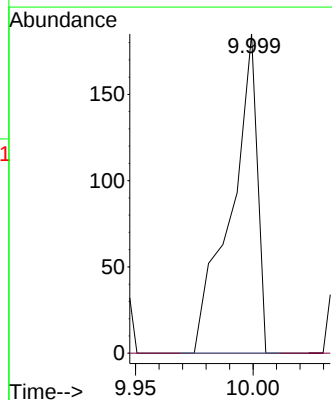
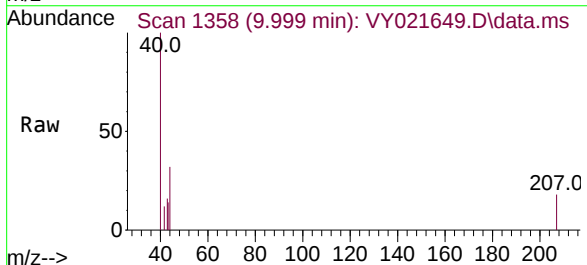
Acq: 26 Mar 2025 16:11

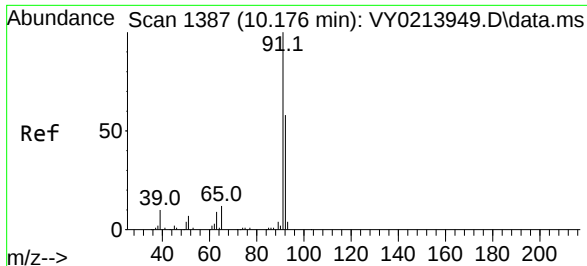
Tgt Ion: 43 Resp: 144

Ion Ratio Lower Upper

43 100

58 0.0 31.4 47.2#

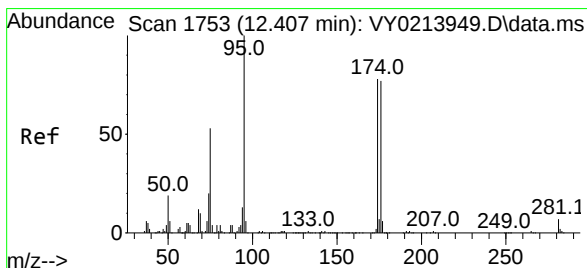
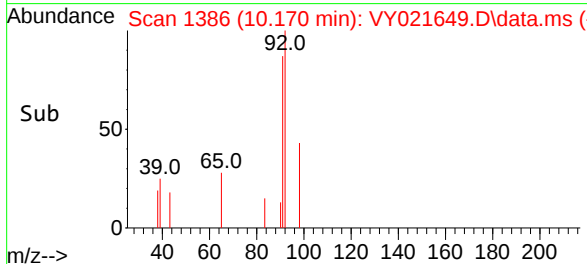
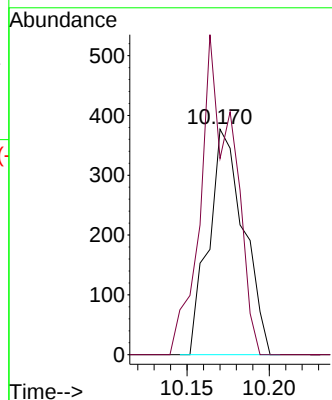
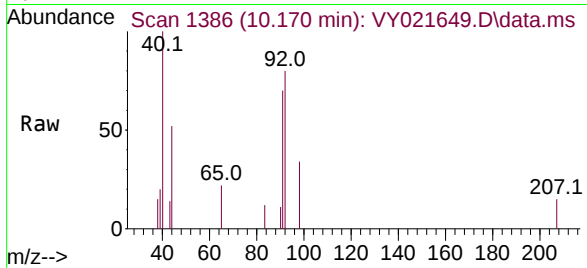




#52
Toluene
Concen: 1.020 ug/l
RT: 10.170 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

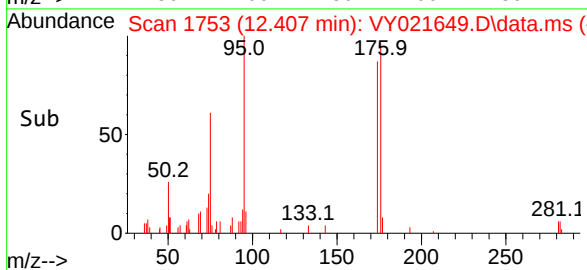
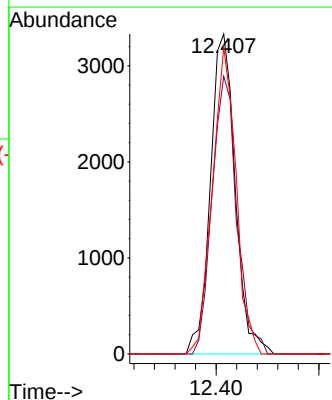
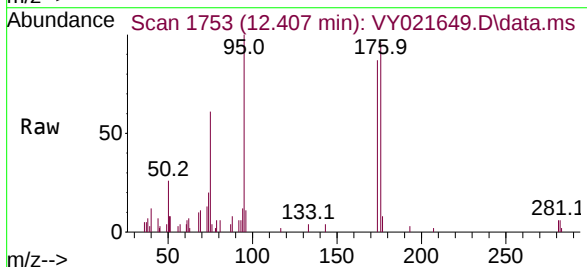
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

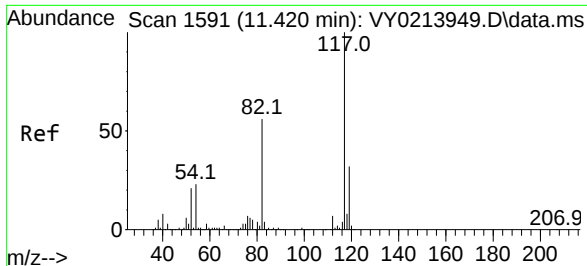
Tgt Ion: 92 Resp: 560
Ion Ratio Lower Upper
92 100
91 130.9 138.2 207.2#



#62
4-Bromofluorobenzene
Concen: 22.906 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion: 95 Resp: 5572
Ion Ratio Lower Upper
95 100
174 86.6 0.0 165.0
176 91.3 0.0 160.0

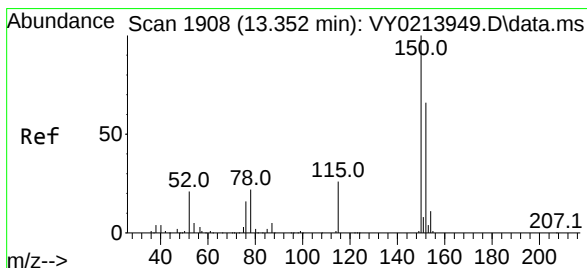
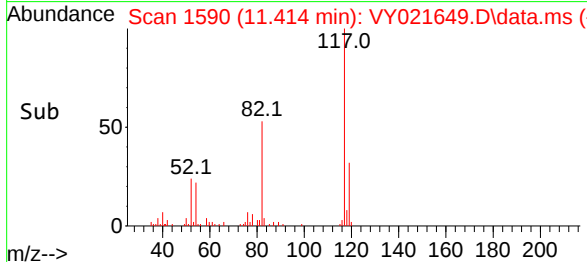
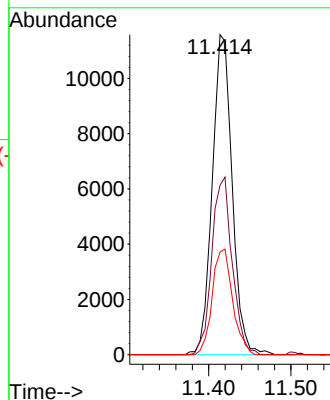
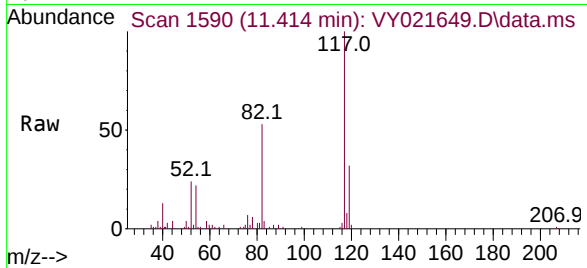




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

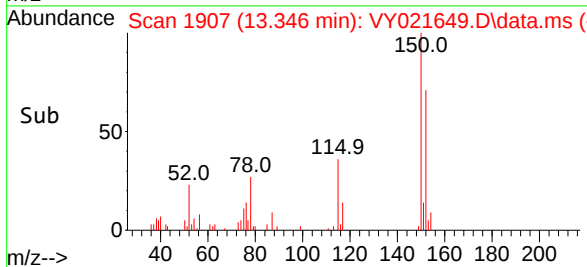
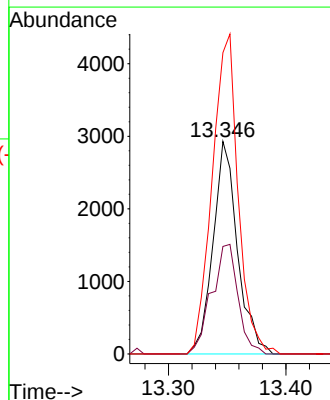
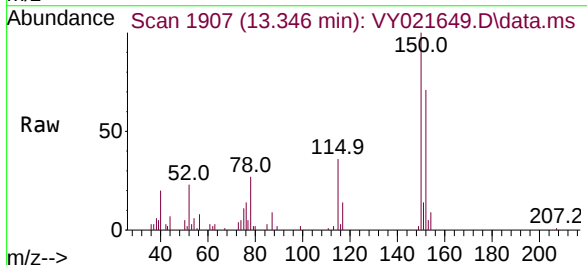
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

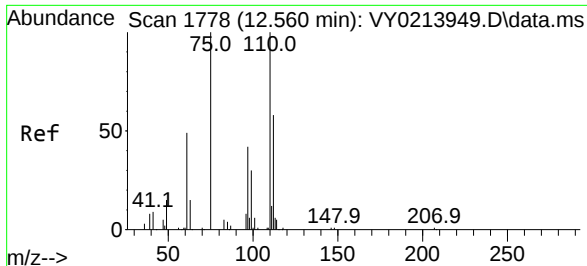
Tgt Ion:117	Resp:	19531
Ion	Ratio	Lower Upper
117	100	
82	52.9	44.6 67.0
119	32.0	25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion:152	Resp:	4245
Ion	Ratio	Lower Upper
152	100	
115	55.3	29.0 87.0
150	159.5	0.0 347.2

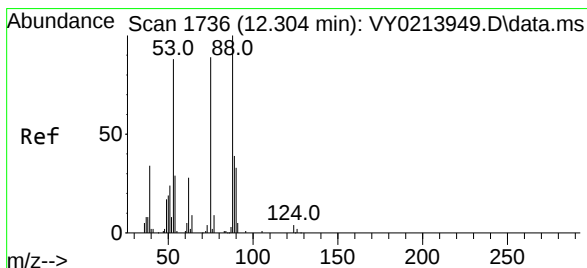
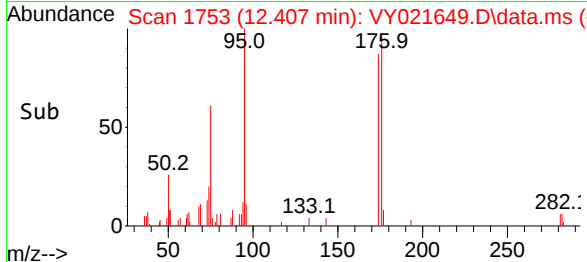
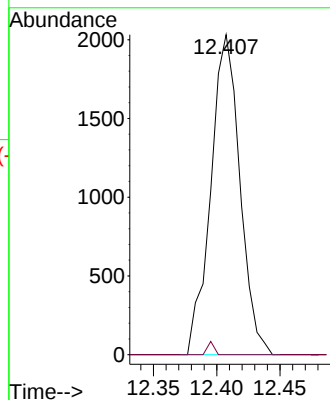
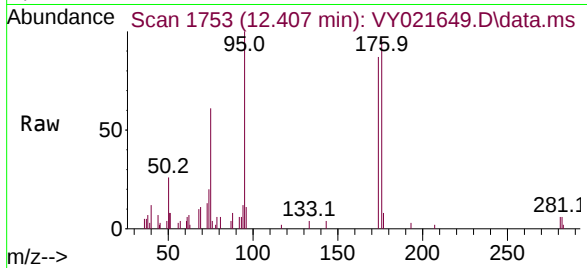




#76
1,2,3-Trichloropropane
Concen: 76.140 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

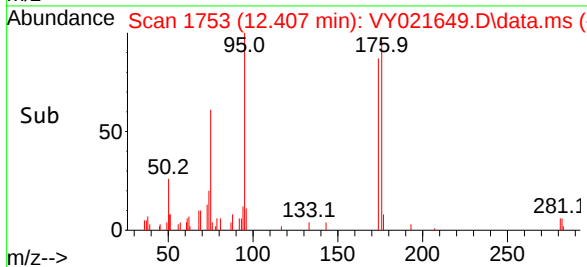
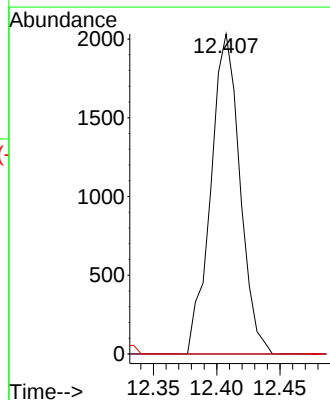
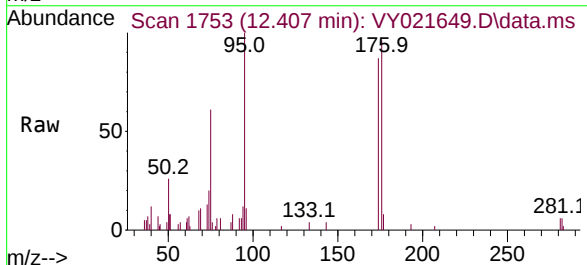
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

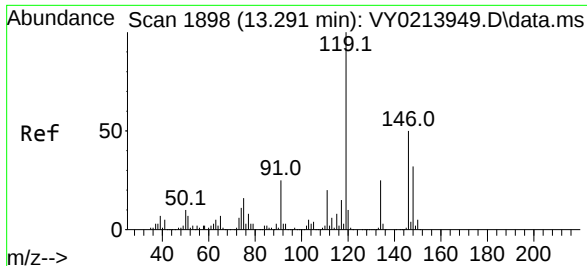
Tgt Ion: 75 Resp: 3257
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 173.091 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Tgt Ion: 75 Resp: 3257
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.0 36.9 55.3#

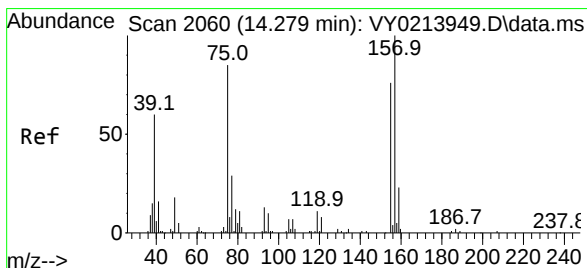
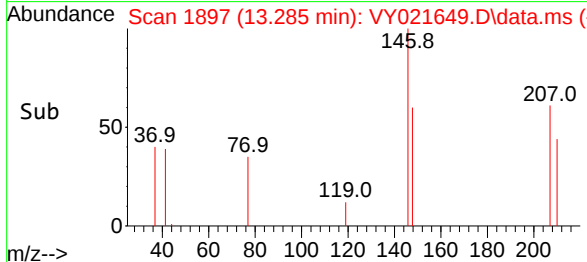
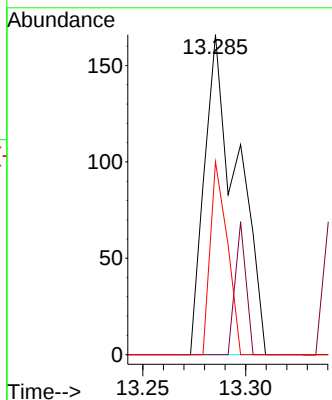
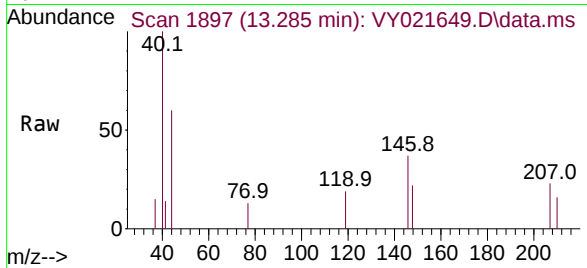




#87
1,3-Dichlorobenzene
Concen: 1.194 ug/l
RT: 13.285 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

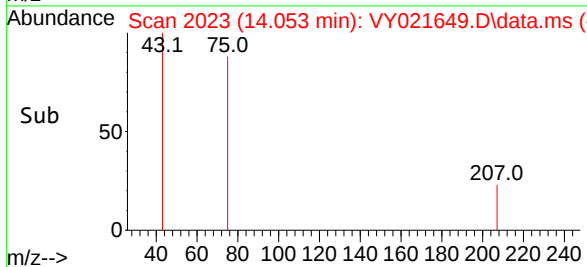
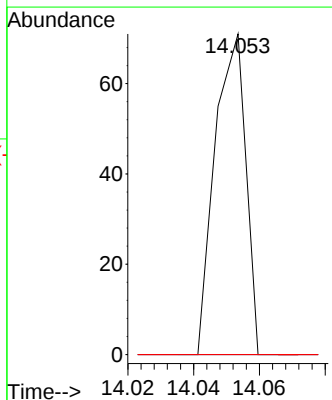
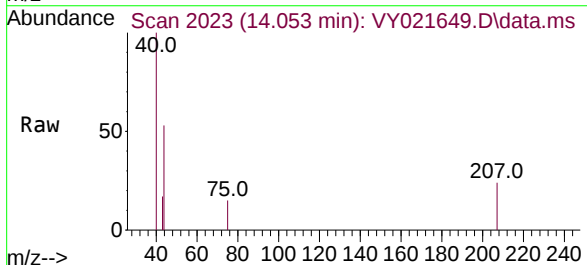
Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC

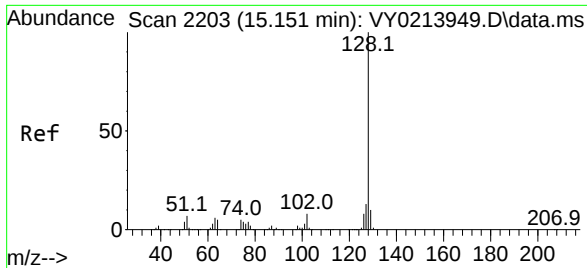
Tgt Ion:146 Resp: 186
Ion Ratio Lower Upper
146 100
111 13.4 20.0 60.0#
148 30.6 31.8 95.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.204 ug/l
RT: 14.053 min Scan# 2023
Delta R.T. -0.225 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

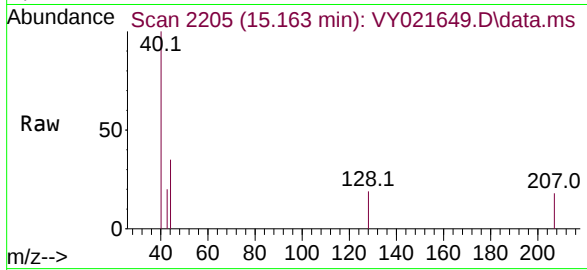
Tgt Ion: 75 Resp: 46
Ion Ratio Lower Upper
75 100
155 0.0 43.5 130.5#
157 0.0 54.4 163.2#





#95
Naphthalene
Concen: 2.534 ug/l
RT: 15.163 min Scan# 21
Delta R.T. 0.012 min
Lab File: VY021649.D
Acq: 26 Mar 2025 16:11

Instrument :
MSVOA_Y
ClientSampleId :
TP-4-VOC



Tgt Ion:	128	Resp:	125
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.6	13.0#

