

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY041025\
 Data File : VY021844.D
 Acq On : 10 Apr 2025 17:34
 Operator : SY/MD
 Sample : Q1771-03
 Misc : 4.69g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-6C-VOC

Quant Time: Apr 11 01:52:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

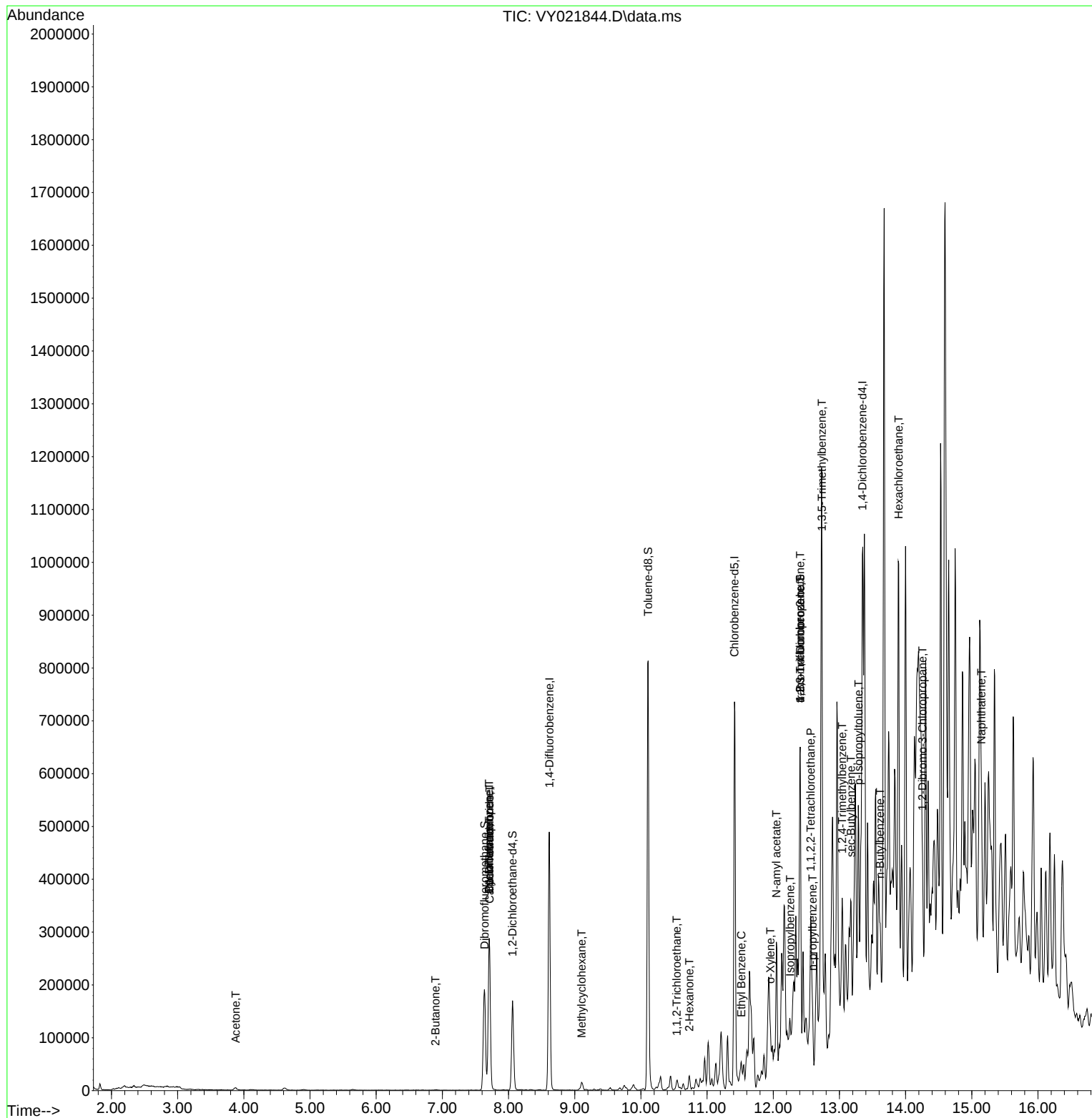
Internal Standards						
1) Pentafluorobenzene	7.707	168	214631	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	399242	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	376987	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	163287	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	130938	56.306	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.620%			
35) Dibromofluoromethane	7.640	113	136988	52.895	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.780%			
50) Toluene-d8	10.109	98	502126	50.965	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.920%			
62) 4-Bromofluorobenzene	12.407	95	171458	51.449	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.900%			
Target Compounds					Qvalue	
16) Acetone	3.879	43	8145	17.114	ug/l	93
20) Methylene Chloride	4.610	84	3158	Below Cal	#	76
25) 2-Butanone	6.896	43	1573	2.314	ug/l #	79
31) Cyclohexane	7.707	56	5785	1.409	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	17508	4.438	ug/l #	50
38) Carbon Tetrachloride	7.713	117	21935	4.855	ug/l #	17
39) Methylcyclohexane	9.103	83	5030	1.067	ug/l #	86
55) 1,1,2-Trichloroethane	10.542	97	5858	2.825	ug/l #	20
59) 2-Hexanone	10.731	43	9065	7.414	ug/l #	30
67) Ethyl Benzene	11.517	91	23286	1.571	ug/l	100
69) o-Xylene	11.956	106	9508	1.815	ug/l	88
73) Isopropylbenzene	12.255	105	27014	2.227	ug/l	98
74) N-amyl acetate	12.048	43	51991	18.266	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.566	83	19613	8.995	ug/l #	62
76) 1,2,3-Trichloropropane	12.407	75	89756	55.453	ug/l #	100
78) n-propylbenzene	12.596	91	62002	4.252	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	43277	4.366	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.407	75	89756	127.773	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.041	105	100606	10.269	ug/l	99
85) sec-Butylbenzene	13.176	105	91421	7.086	ug/l	88
86) p-Isopropyltoluene	13.291	119	25610	2.402	ug/l	98
89) n-Butylbenzene	13.615	91	88287	8.952	ug/l #	74
90) Hexachloroethane	13.895	117	31032	13.280	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.255	75	471	1.394	ug/l #	1
95) Naphthalene	15.145	128	162822	36.271	ug/l	95

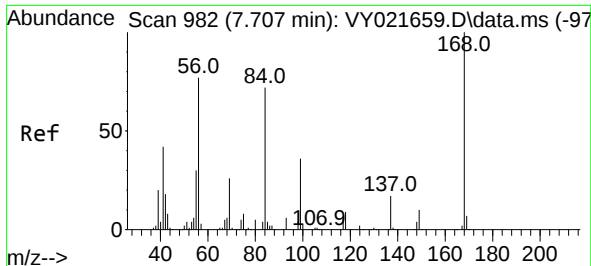
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

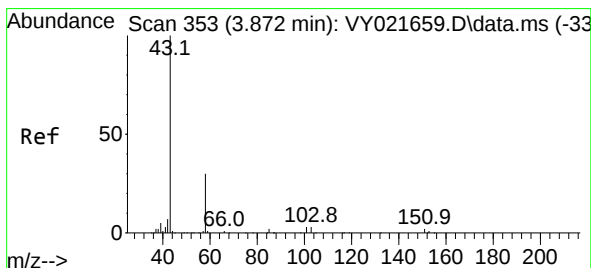
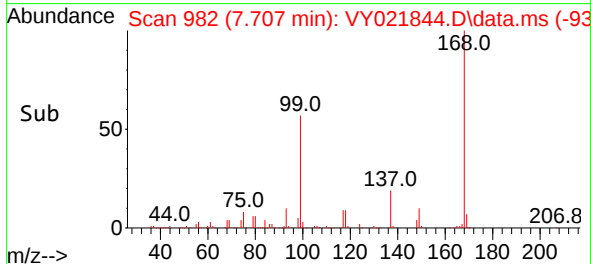
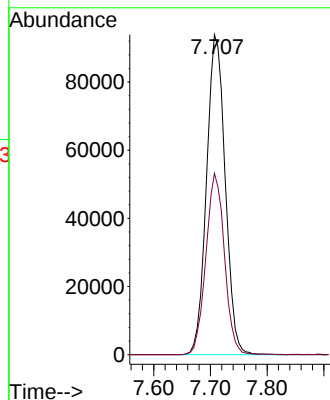
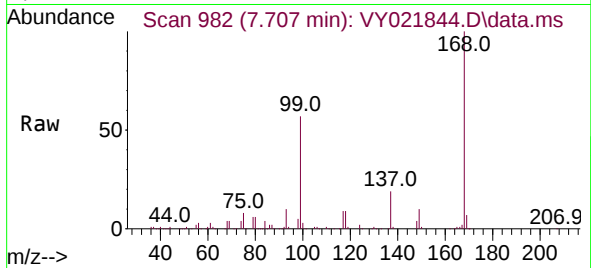




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

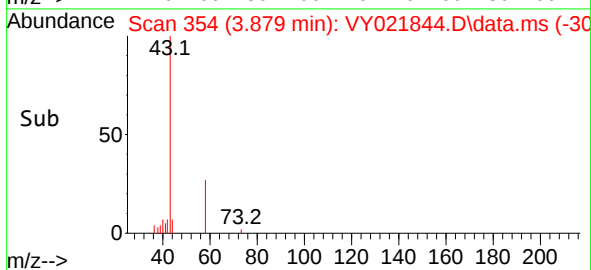
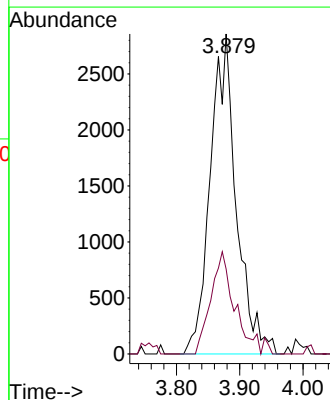
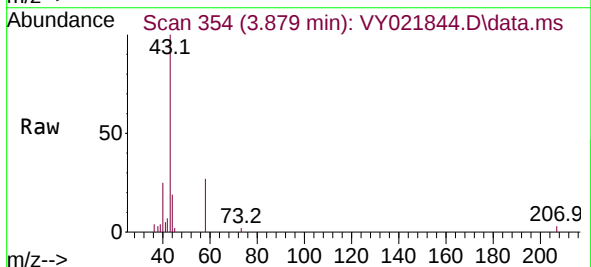
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

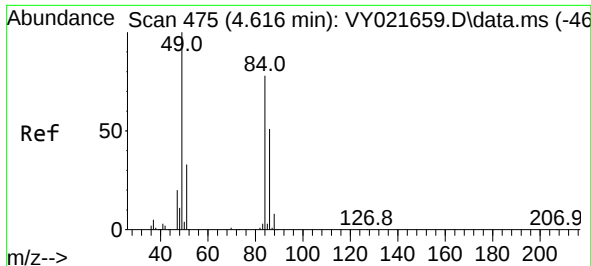
Tgt Ion:168 Resp: 214631
Ion Ratio Lower Upper
168 100
99 56.7 46.7 70.1



#16
Acetone
Concen: 17.114 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion: 43 Resp: 8145
Ion Ratio Lower Upper
43 100
58 26.5 24.2 36.4

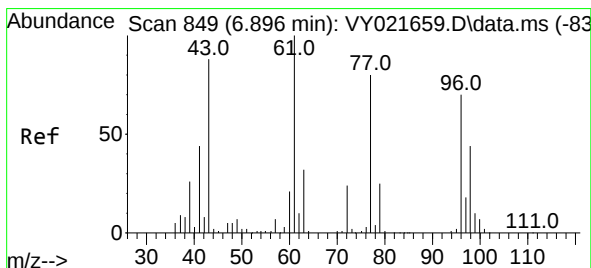
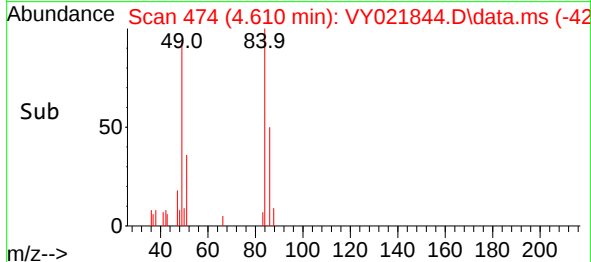
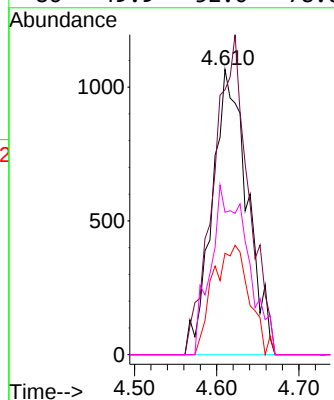
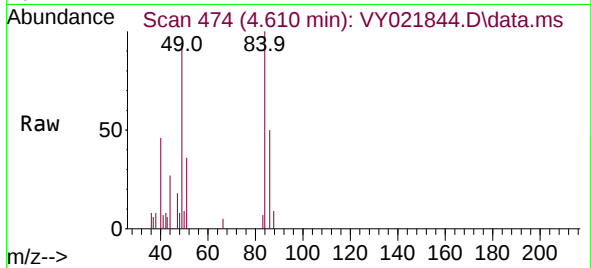




#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

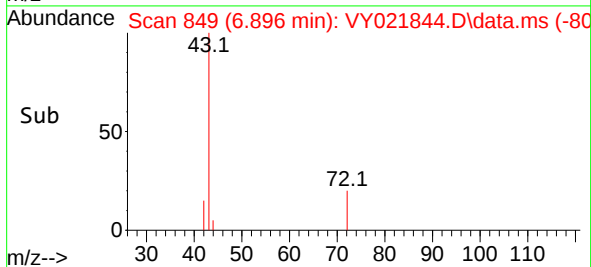
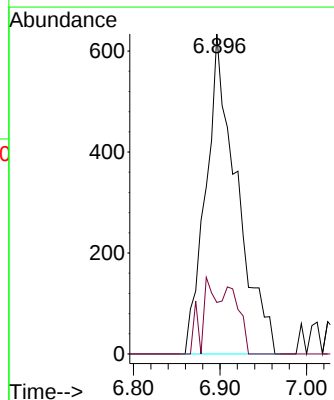
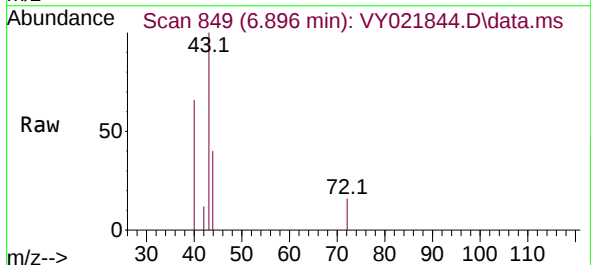
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

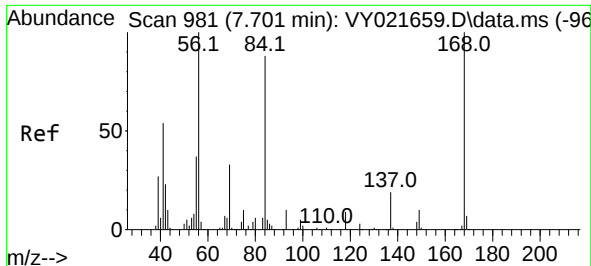
Tgt Ion: 84 Resp: 3158
Ion Ratio Lower Upper
84 100
49 92.9 102.8 154.2#
51 35.6 33.5 50.3
86 49.9 52.0 78.0#



#25
2-Butanone
Concen: 2.314 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion: 43 Resp: 1573
Ion Ratio Lower Upper
43 100
72 16.1 21.4 32.2#

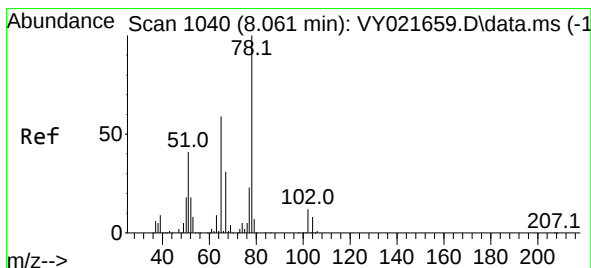
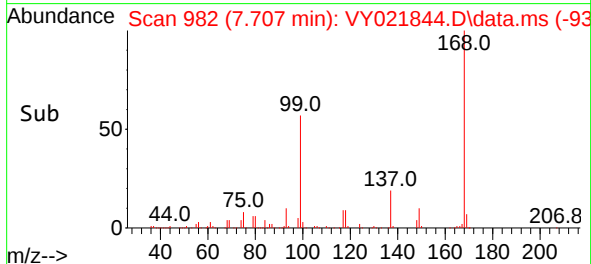
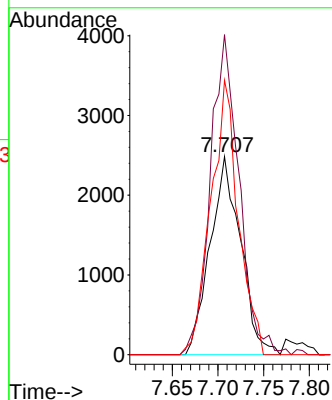
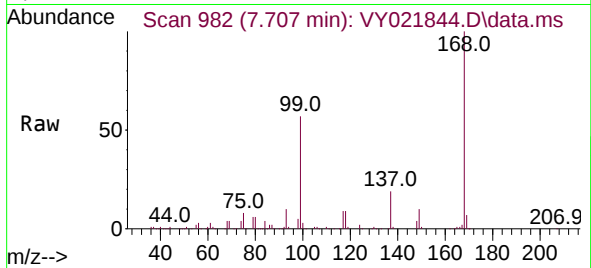




#31
Cyclohexane
Concen: 1.409 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

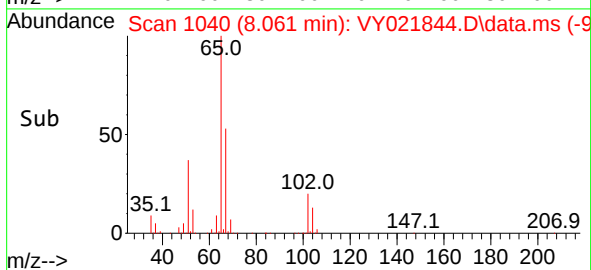
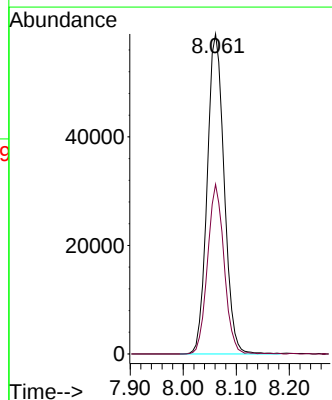
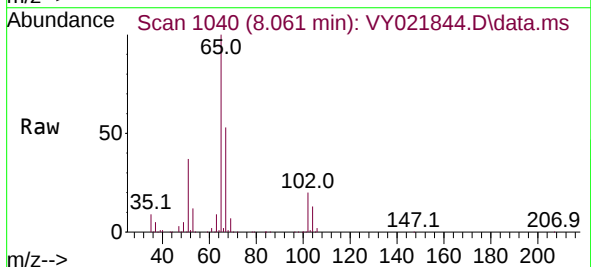
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

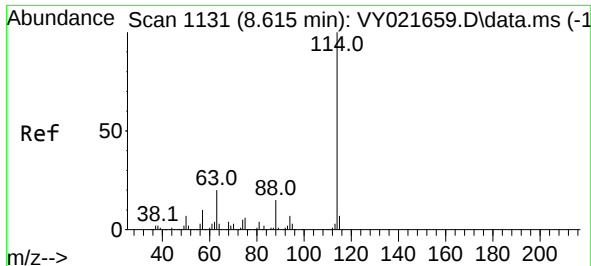
Tgt Ion: 56 Resp: 5785
Ion Ratio Lower Upper
56 100
69 161.6 26.6 40.0#
84 138.5 69.0 103.4#



#33
1,2-Dichloroethane-d4
Concen: 56.306 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion: 65 Resp: 130938
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

Instrument :

MSVOA_Y

ClientSampleId :

TP-6C-VOC

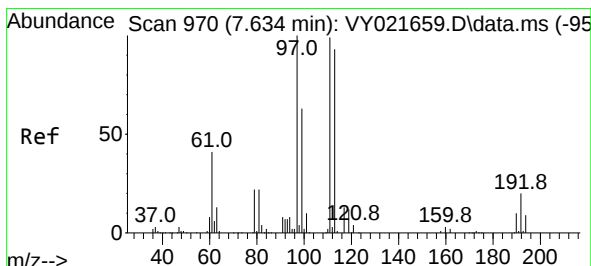
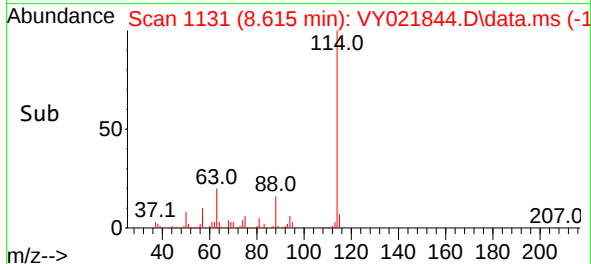
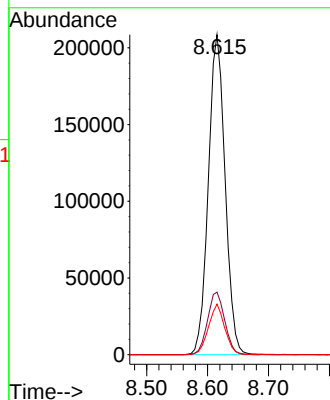
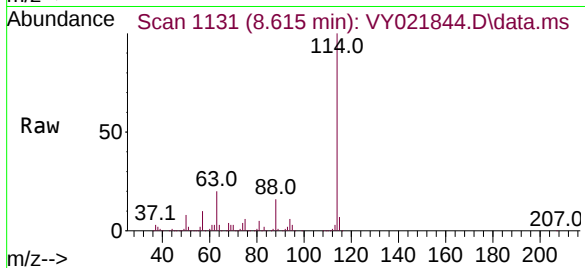
Tgt Ion:114 Resp: 399242

Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.2

88 15.8 0.0 29.8



#35

Dibromofluoromethane

Concen: 52.895 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

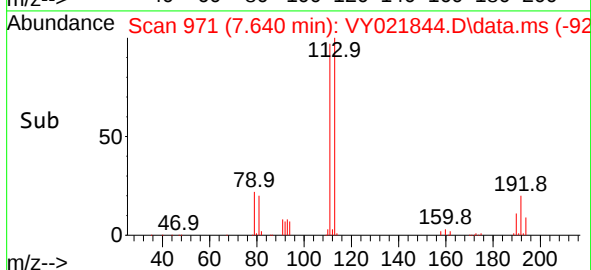
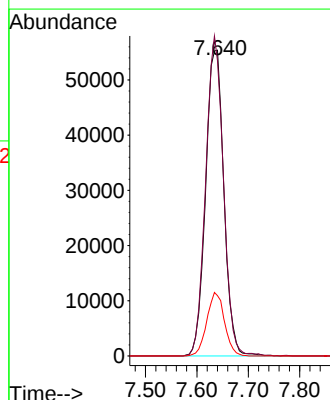
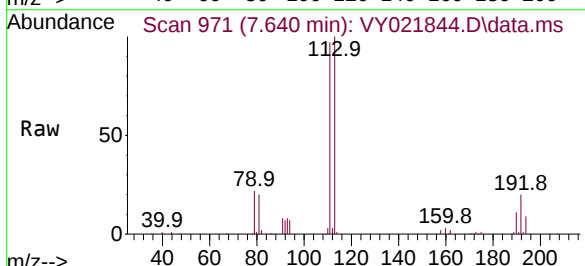
Tgt Ion:113 Resp: 136988

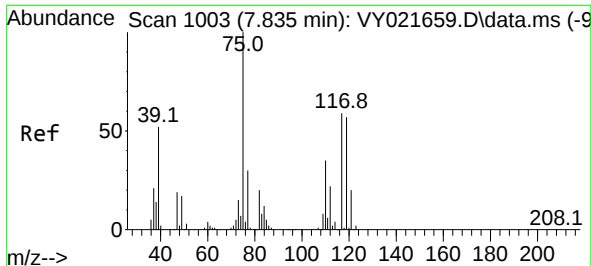
Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

192 20.1 16.2 24.4

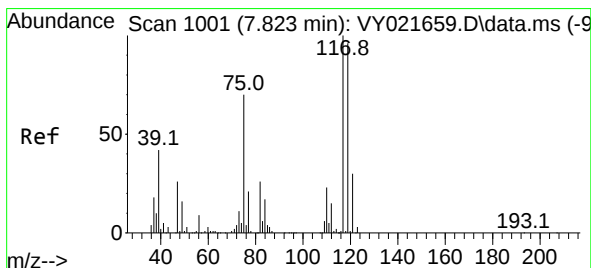
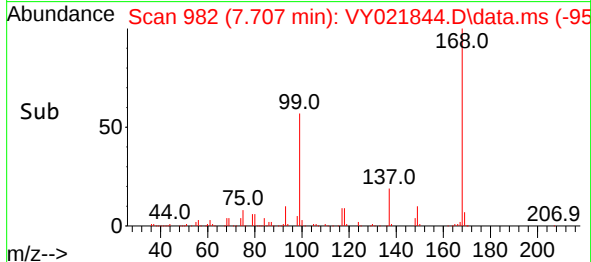
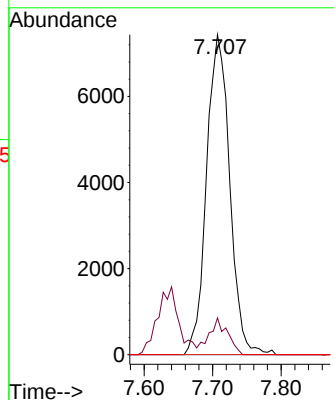
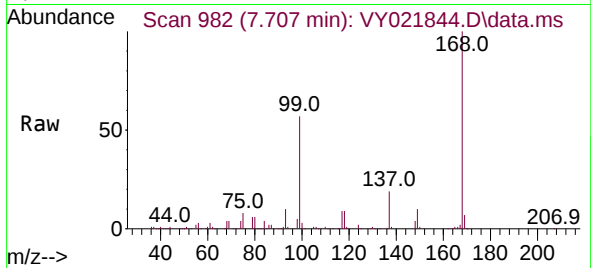




#36
 1,1-Dichloropropene
 Concen: 4.438 ug/l
 RT: 7.707 min Scan# 91
 Delta R.T. -0.128 min
 Lab File: VY021844.D
 Acq: 10 Apr 2025 17:34

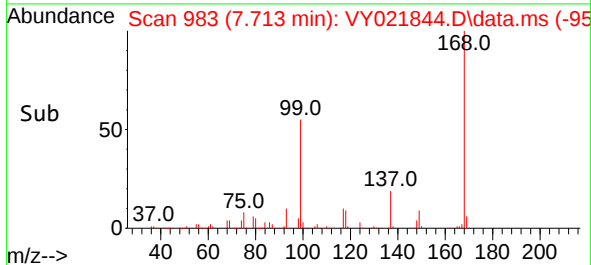
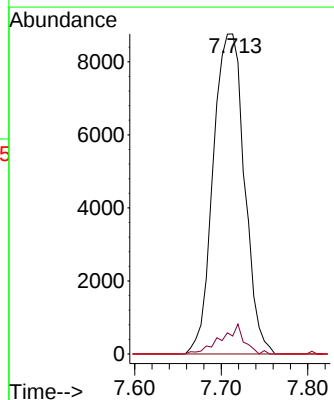
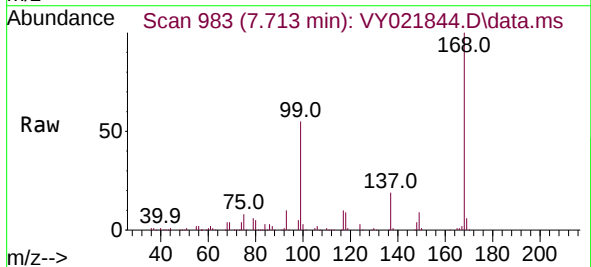
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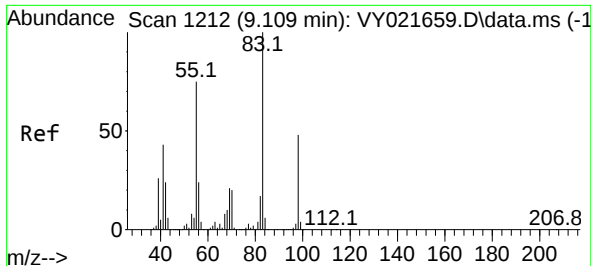
Tgt Ion: 75 Resp: 17508
 Ion Ratio Lower Upper
 75 100
 110 9.2 17.0 50.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 4.855 ug/l
 RT: 7.713 min Scan# 983
 Delta R.T. -0.110 min
 Lab File: VY021844.D
 Acq: 10 Apr 2025 17:34

Tgt Ion: 117 Resp: 21935
 Ion Ratio Lower Upper
 117 100
 119 5.6 76.2 114.4#
 121 0.0 24.2 36.4#





#39

Methylcyclohexane

Concen: 1.067 ug/l

RT: 9.103 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

Instrument :

MSVOA_Y

ClientSampleId :

TP-6C-VOC

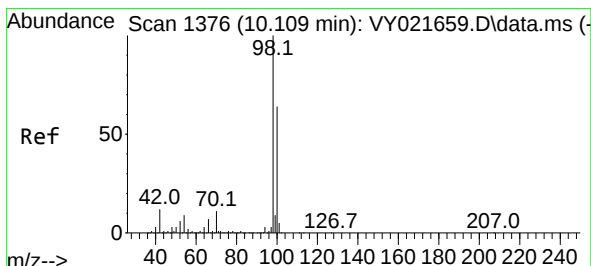
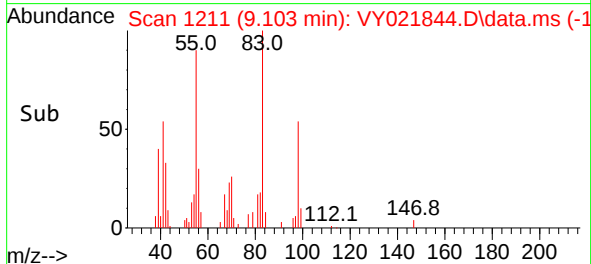
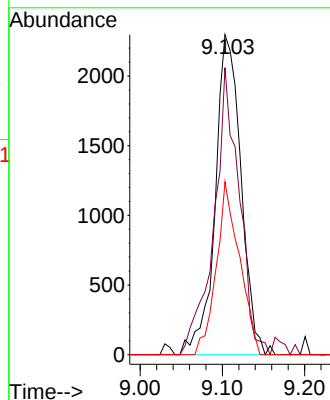
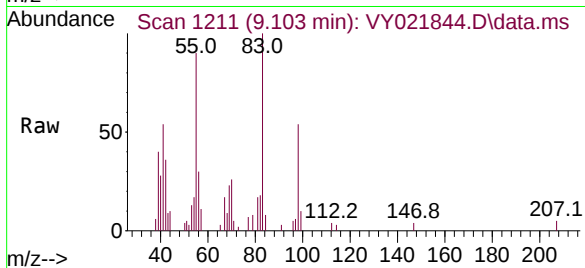
Tgt Ion: 83 Resp: 5030

Ion Ratio Lower Upper

83 100

55 89.7 59.7 89.5#

98 54.0 38.3 57.5



#50

Toluene-d8

Concen: 50.965 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021844.D

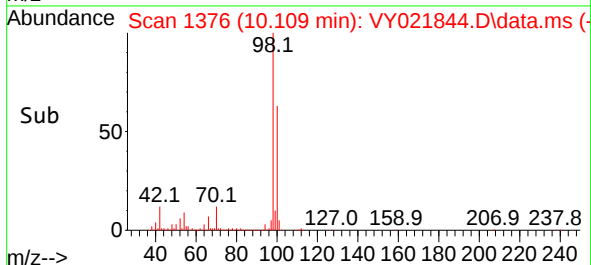
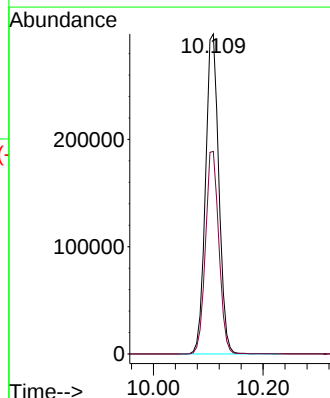
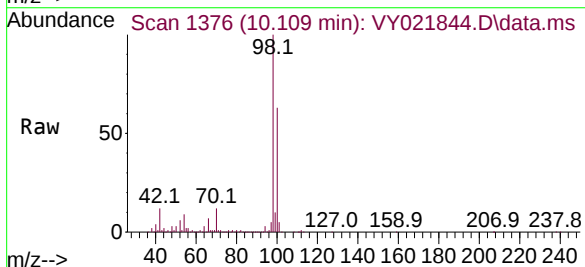
Acq: 10 Apr 2025 17:34

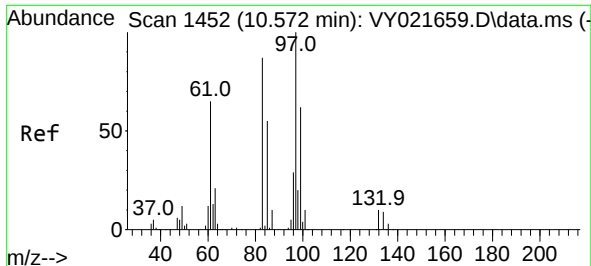
Tgt Ion: 98 Resp: 502126

Ion Ratio Lower Upper

98 100

100 63.6 52.1 78.1

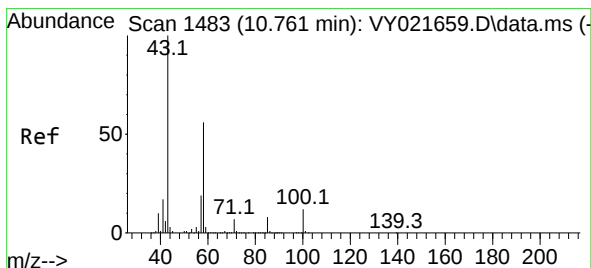
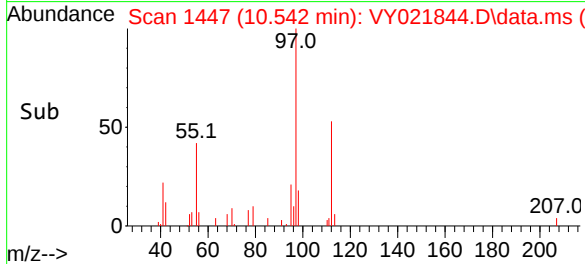
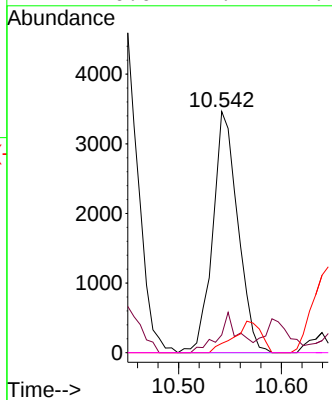
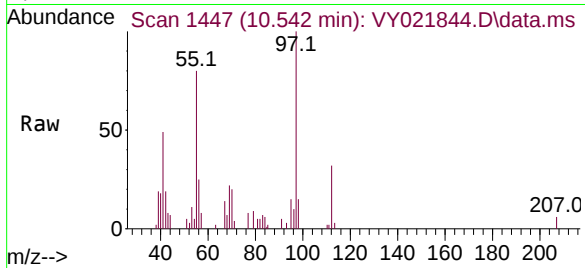




#55
1,1,2-Trichloroethane
Concen: 2.825 ug/l
RT: 10.542 min Scan# 1447
Delta R.T. -0.030 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

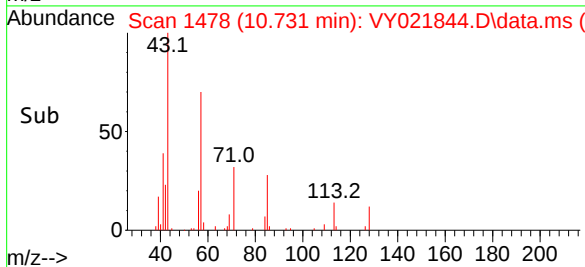
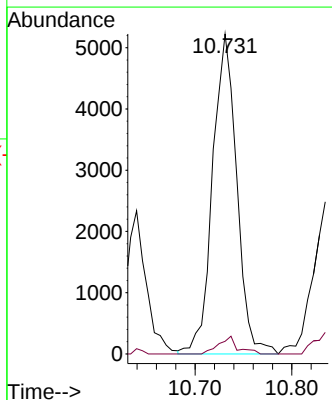
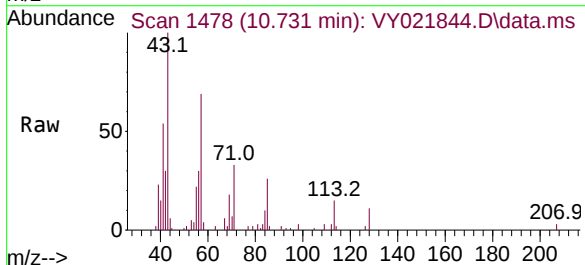
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

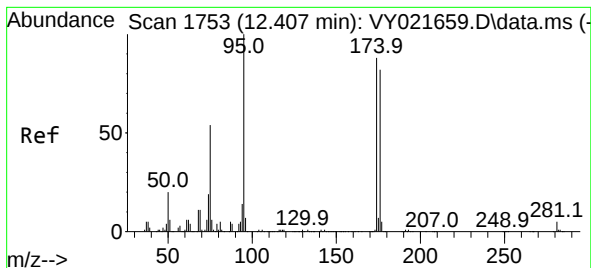
Tgt Ion: 97 Resp: 5858
Ion Ratio Lower Upper
97 100
83 7.3 69.5 104.3#
85 3.8 43.9 65.9#
99 0.0 49.9 74.9#



#59
2-Hexanone
Concen: 7.414 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.030 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion: 43 Resp: 9065
Ion Ratio Lower Upper
43 100
58 4.3 27.2 81.5#

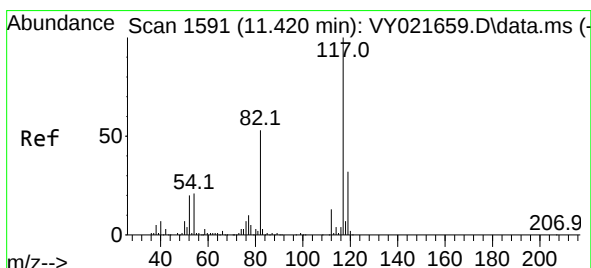
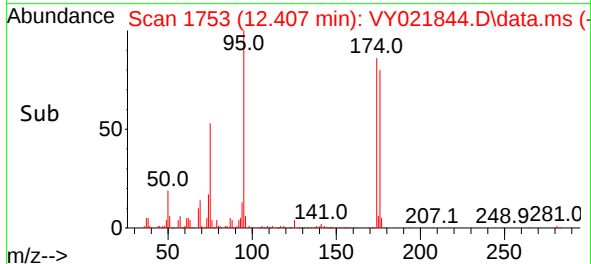
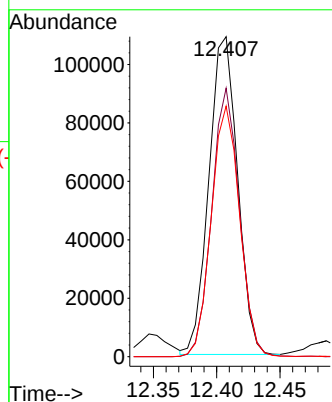
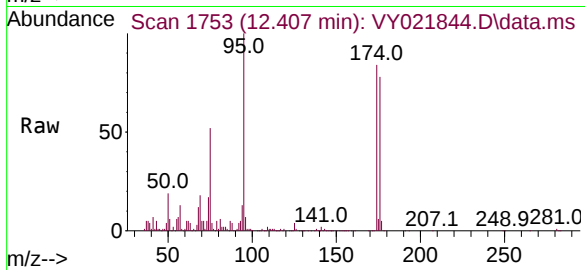




#62
4-Bromofluorobenzene
Concen: 51.449 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

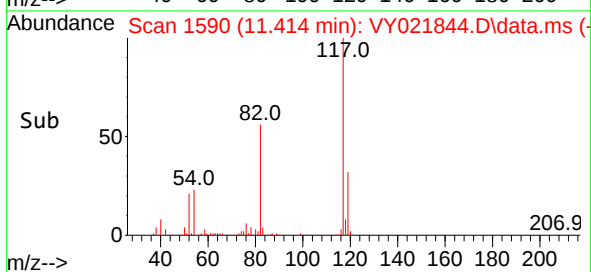
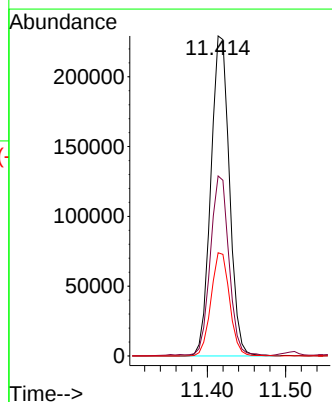
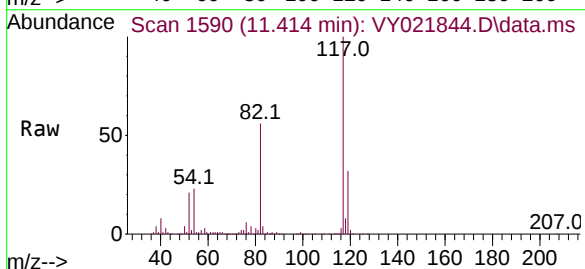
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

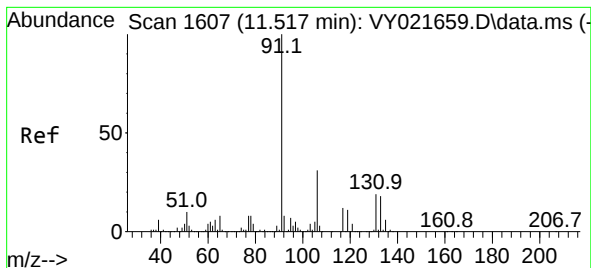
Tgt Ion: 95 Resp: 171458
Ion Ratio Lower Upper
95 100
174 81.2 0.0 170.8
176 78.2 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion: 117 Resp: 376987
Ion Ratio Lower Upper
117 100
82 55.8 42.8 64.2
119 32.2 25.7 38.5





#67

Ethyl Benzene

Concen: 1.571 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

Instrument :

MSVOA_Y

ClientSampleId :

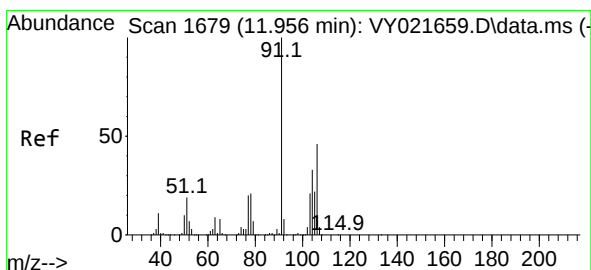
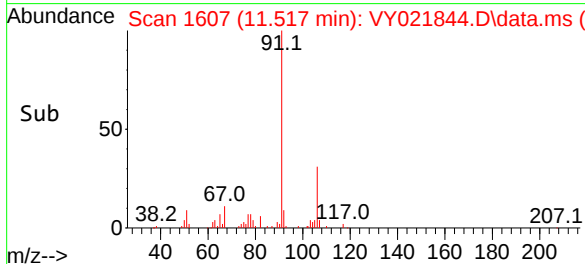
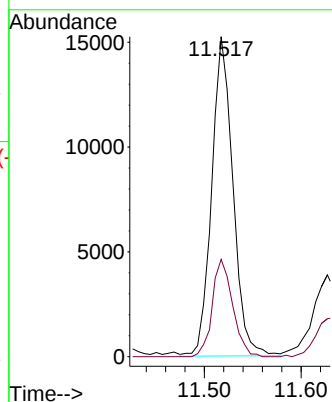
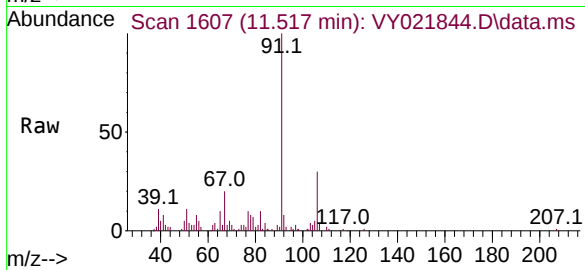
TP-6C-VOC

Tgt Ion: 91 Resp: 23286

Ion Ratio Lower Upper

91 100

106 30.6 24.6 36.8



#69

o-Xylene

Concen: 1.815 ug/l

RT: 11.956 min Scan# 1679

Delta R.T. 0.000 min

Lab File: VY021844.D

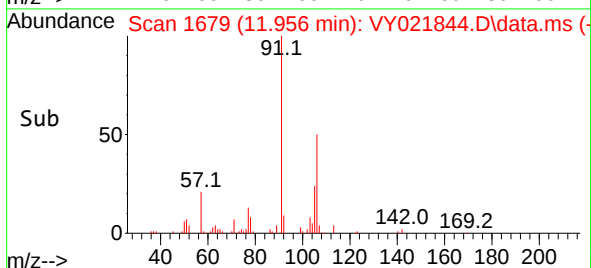
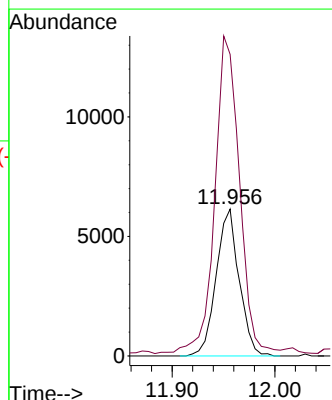
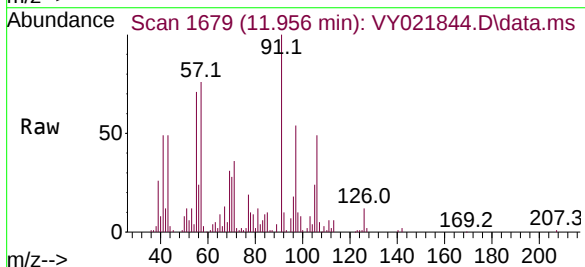
Acq: 10 Apr 2025 17:34

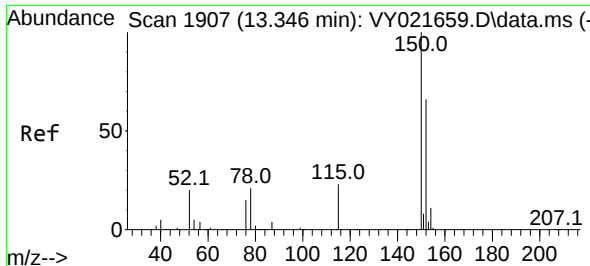
Tgt Ion:106 Resp: 9508

Ion Ratio Lower Upper

106 100

91 231.8 106.7 319.9

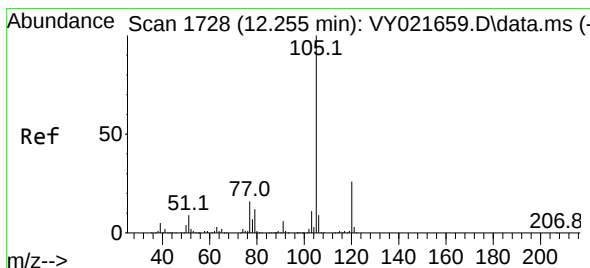
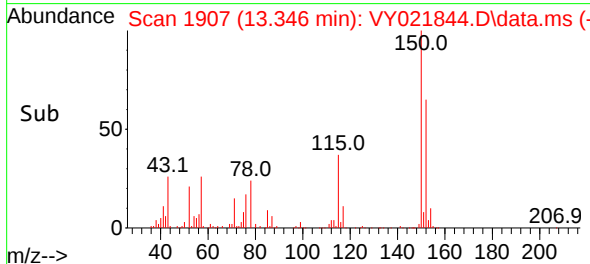
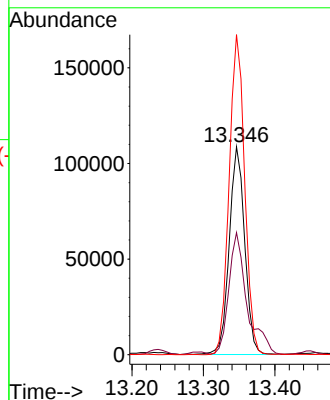
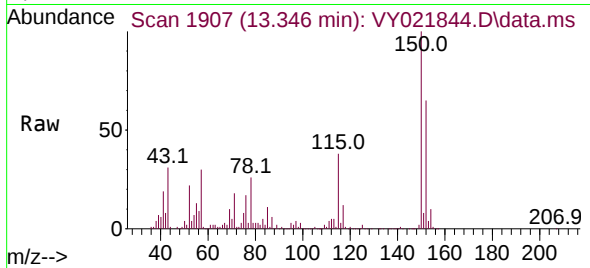




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

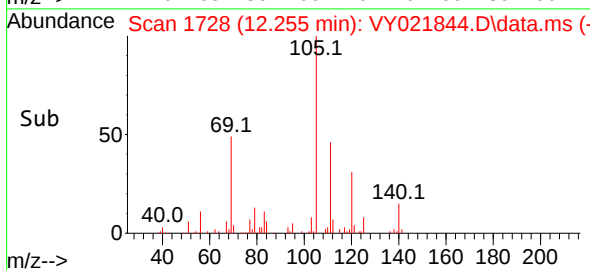
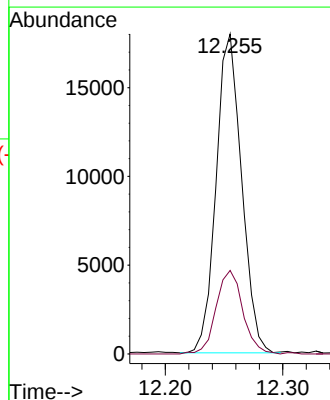
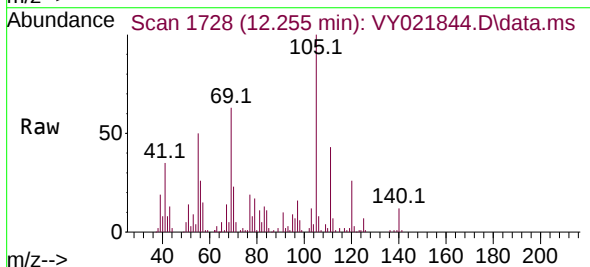
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

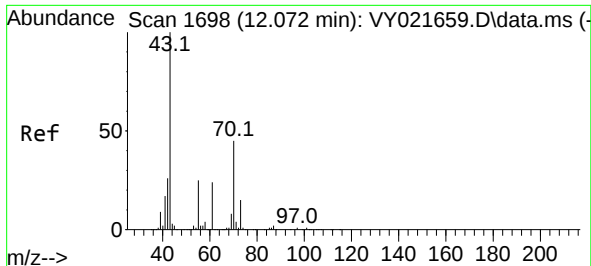
Tgt Ion:152 Resp: 163287
Ion Ratio Lower Upper
152 100
115 68.8 28.8 86.5
150 154.3 0.0 348.4



#73
Isopropylbenzene
Concen: 2.227 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion:105 Resp: 27014
Ion Ratio Lower Upper
105 100
120 27.4 13.2 39.5

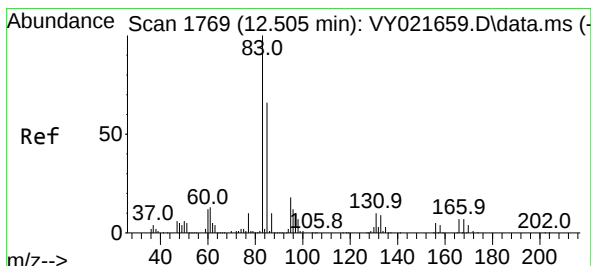
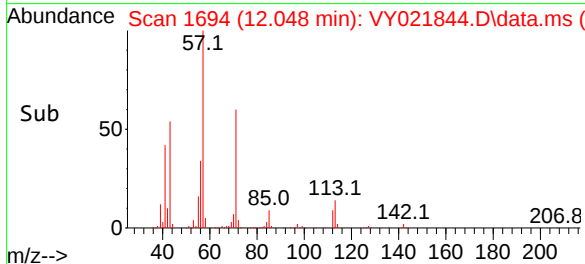
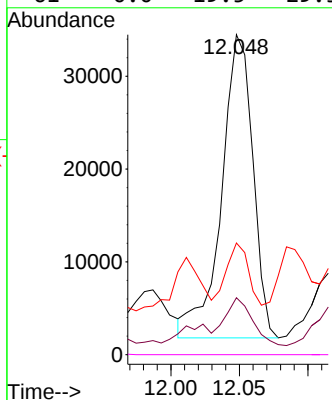
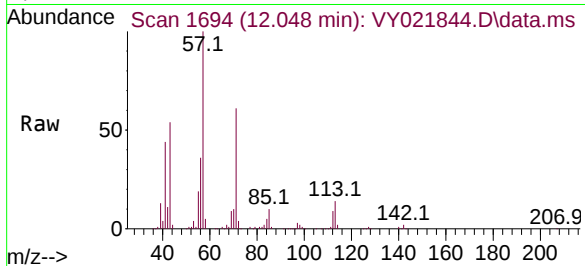




#74
N-amy1 acetate
Concen: 18.266 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.024 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

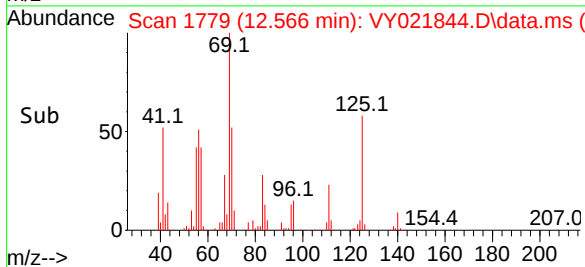
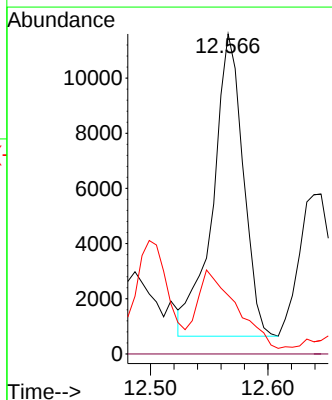
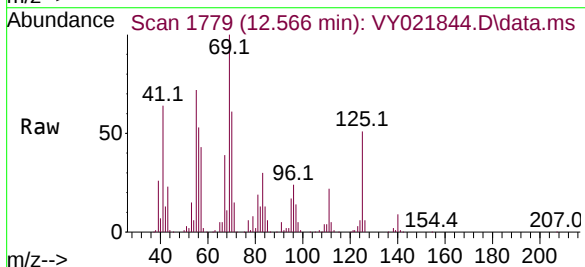
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

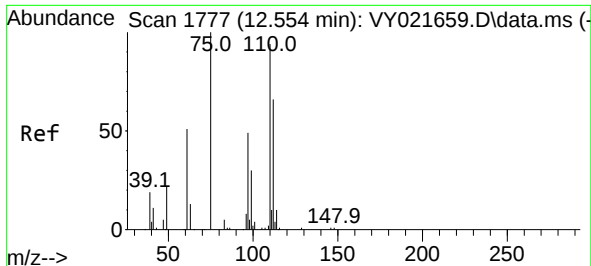
Tgt Ion:	43	Resp:	51991
Ion	Ratio	Lower	Upper
43	100		
70	20.4	34.7	52.1#
55	13.9	21.2	31.8#
61	0.0	19.5	29.3#



#75
1,1,2,2-Tetrachloroethane
Concen: 8.995 ug/l
RT: 12.566 min Scan# 1779
Delta R.T. 0.061 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion:	83	Resp:	19613
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.1	15.3#
85	33.0	32.3	96.8

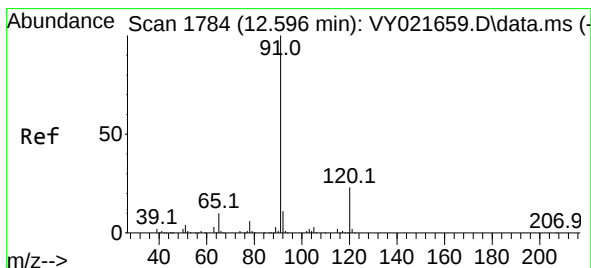
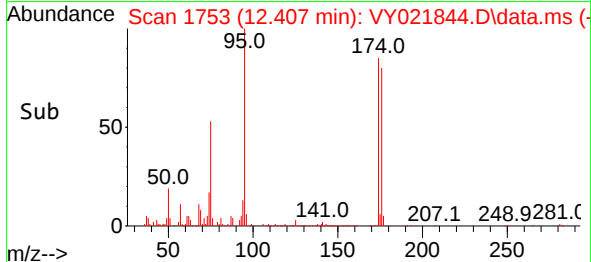
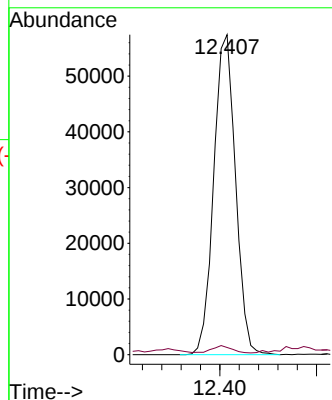
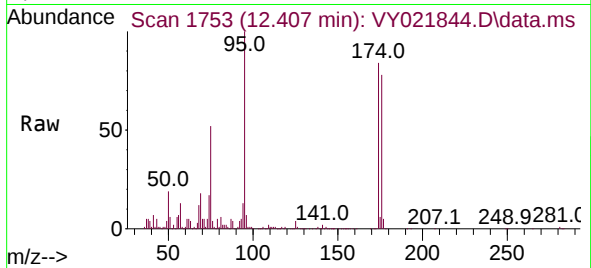




#76
1,2,3-Trichloropropane
Concen: 55.453 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

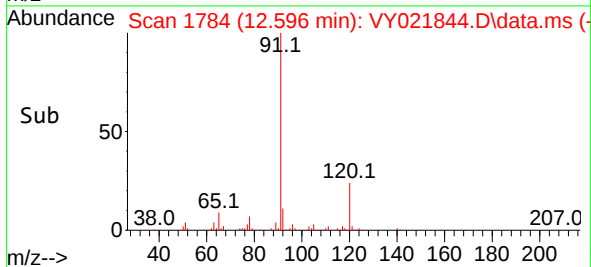
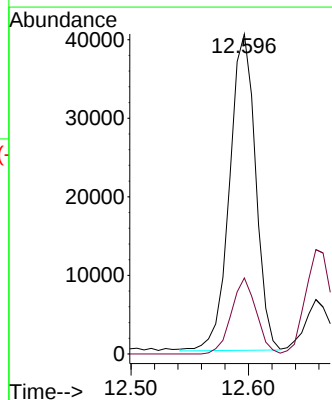
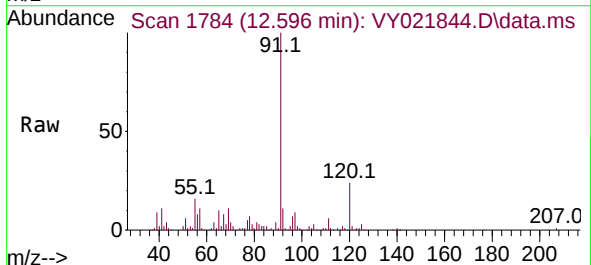
Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC

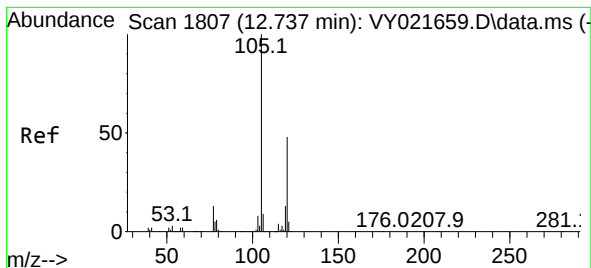
Tgt Ion: 75 Resp: 89756
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#



#78
n-propylbenzene
Concen: 4.252 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Tgt Ion: 91 Resp: 62002
Ion Ratio Lower Upper
91 100
120 22.9 11.3 33.9





#80

1,3,5-Trimethylbenzene

Concen: 4.366 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

Instrument :

MSVOA_Y

ClientSampleId :

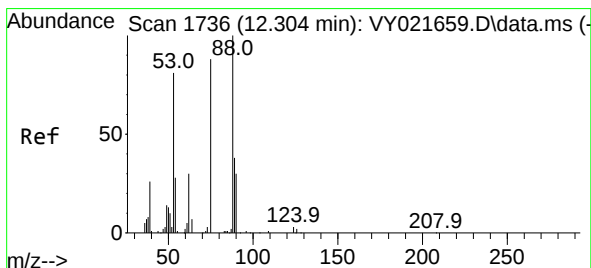
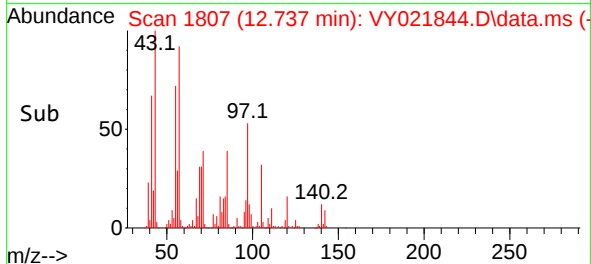
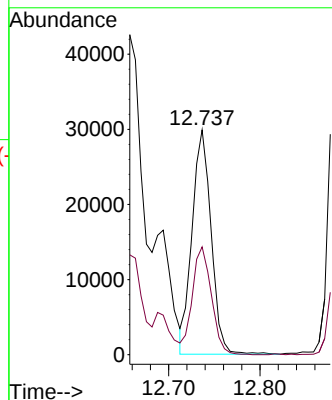
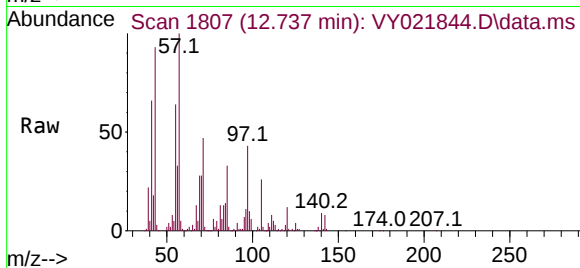
TP-6C-VOC

Tgt Ion:105 Resp: 43277

Ion Ratio Lower Upper

105 100

120 48.4 24.5 73.5



#81

trans-1,4-Dichloro-2-butene

Concen: 127.773 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

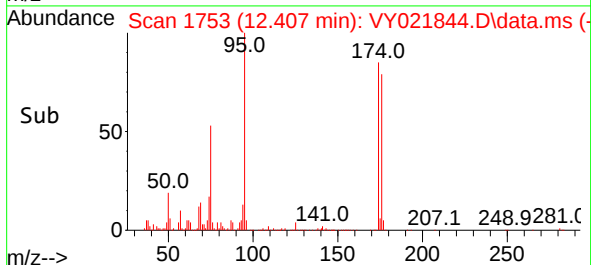
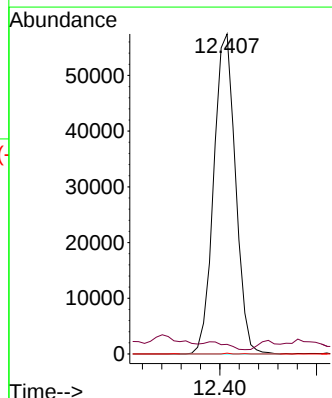
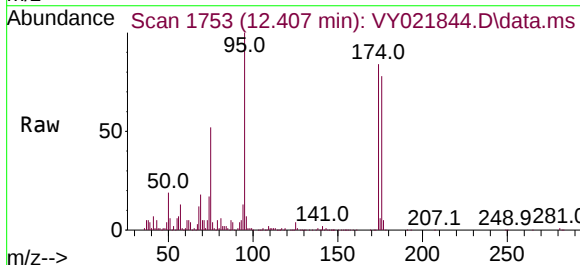
Tgt Ion: 75 Resp: 89756

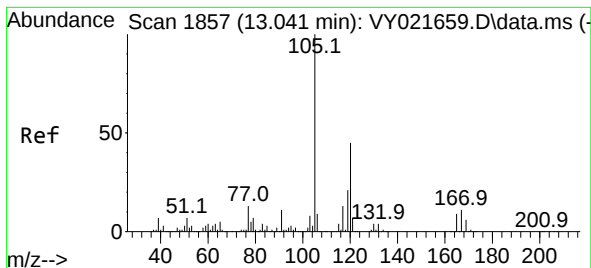
Ion Ratio Lower Upper

75 100

53 2.6 76.1 114.1#

89 0.1 36.2 54.4#





#84

1,2,4-Trimethylbenzene

Concen: 10.269 ug/l

RT: 13.041 min Scan# 1857

Delta R.T. 0.000 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

Instrument :

MSVOA_Y

ClientSampleId :

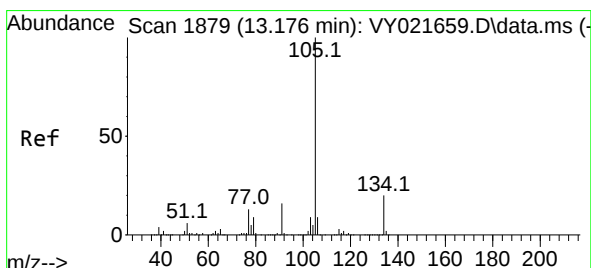
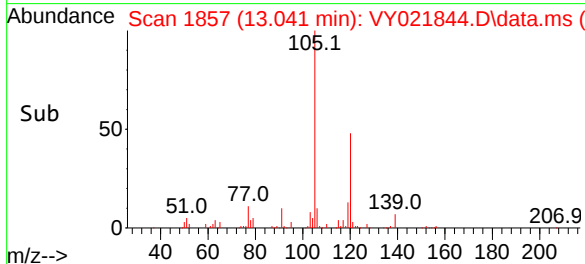
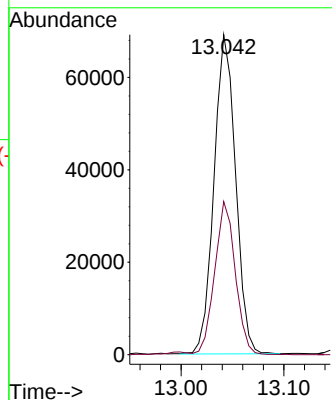
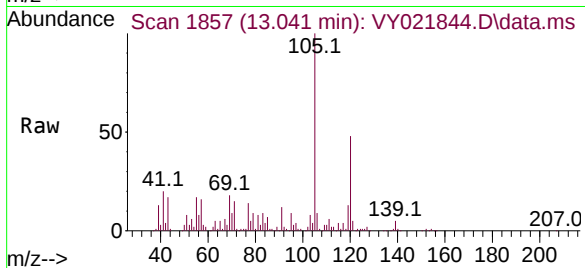
TP-6C-VOC

Tgt Ion:105 Resp: 100606

Ion Ratio Lower Upper

105 100

120 45.9 22.7 68.1



#85

sec-Butylbenzene

Concen: 7.086 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.000 min

Lab File: VY021844.D

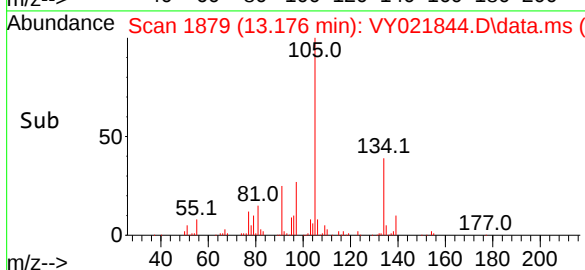
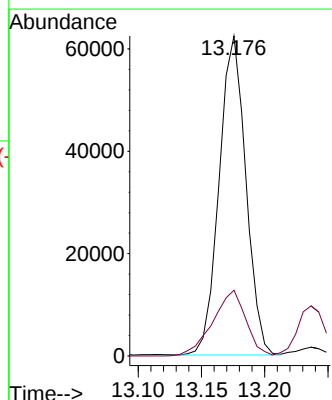
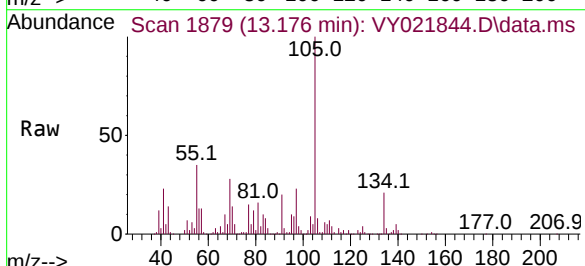
Acq: 10 Apr 2025 17:34

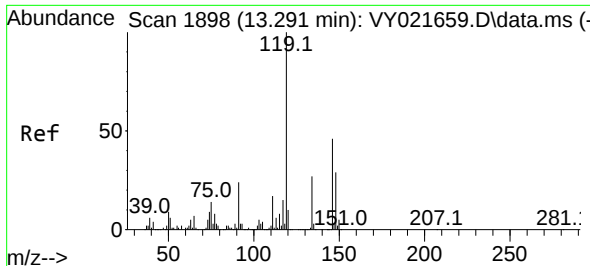
Tgt Ion:105 Resp: 91421

Ion Ratio Lower Upper

105 100

134 25.5 10.1 30.1

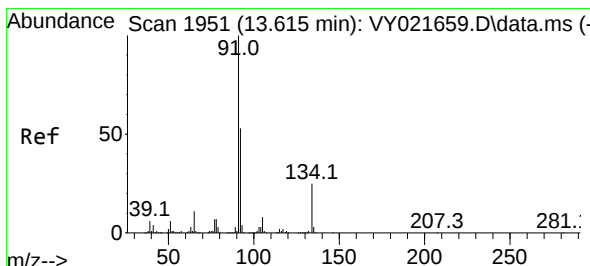
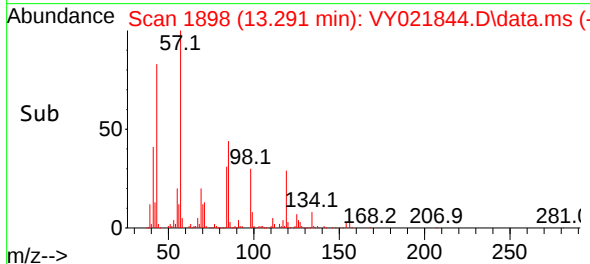
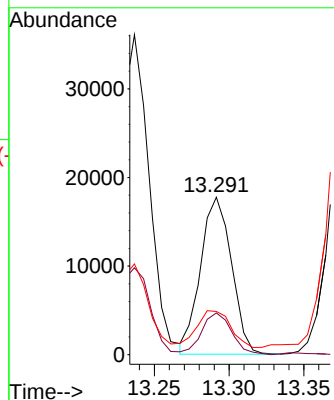
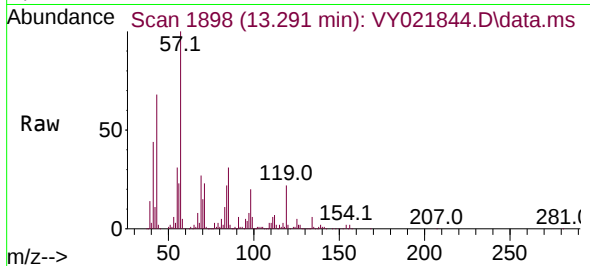




#86
 p-Isopropyltoluene
 Concen: 2.402 ug/l
 RT: 13.291 min Scan# 1898
 Delta R.T. 0.000 min
 Lab File: VY021844.D
 Acq: 10 Apr 2025 17:34

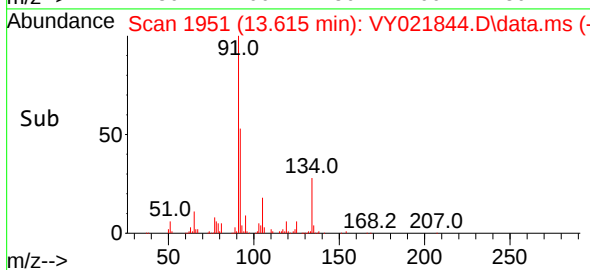
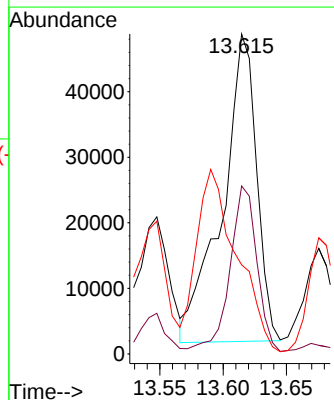
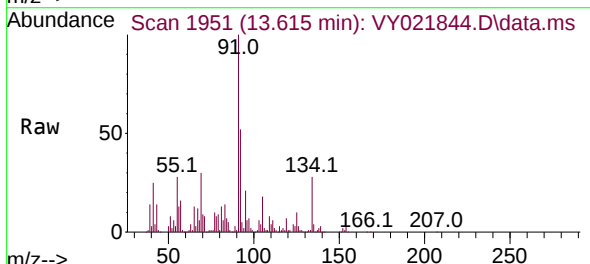
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-6C-VOC

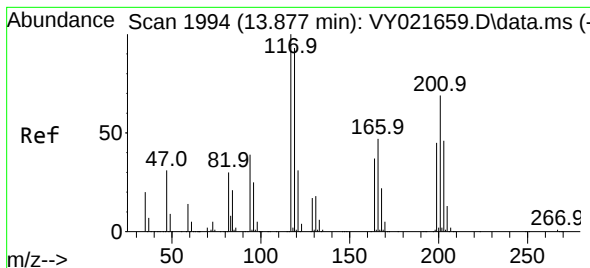
Tgt Ion:119 Resp: 25610
 Ion Ratio Lower Upper
 119 100
 134 25.8 13.2 39.5
 91 25.4 12.0 36.0



#89
 n-Butylbenzene
 Concen: 8.952 ug/l
 RT: 13.615 min Scan# 1951
 Delta R.T. 0.000 min
 Lab File: VY021844.D
 Acq: 10 Apr 2025 17:34

Tgt Ion: 91 Resp: 88287
 Ion Ratio Lower Upper
 91 100
 92 42.7 26.4 79.2
 134 0.0 12.8 38.4#





#90

Hexachloroethane

Concen: 13.280 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.018 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

Instrument :

MSVOA_Y

ClientSampleId :

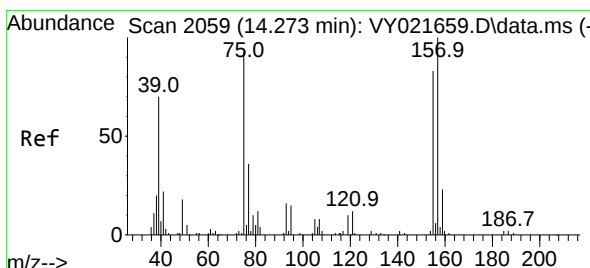
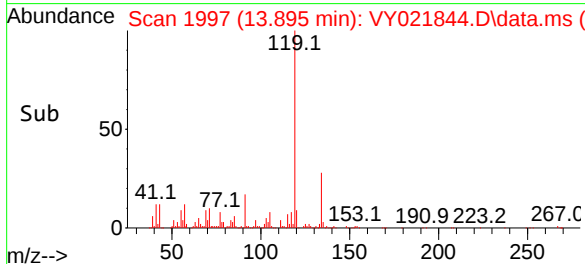
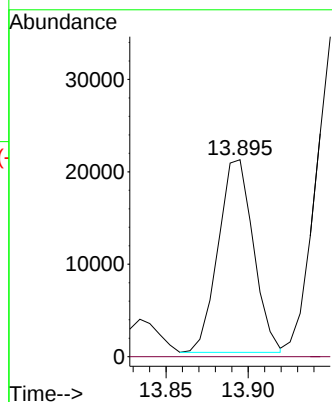
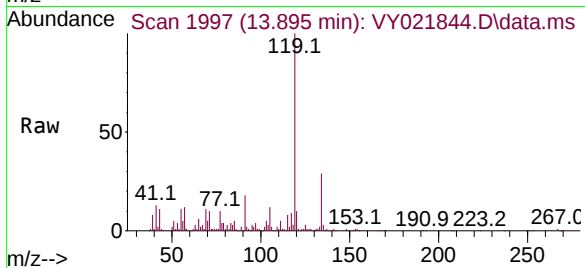
TP-6C-VOC

Tgt Ion:117 Resp: 31032

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.394 ug/l

RT: 14.255 min Scan# 2056

Delta R.T. -0.018 min

Lab File: VY021844.D

Acq: 10 Apr 2025 17:34

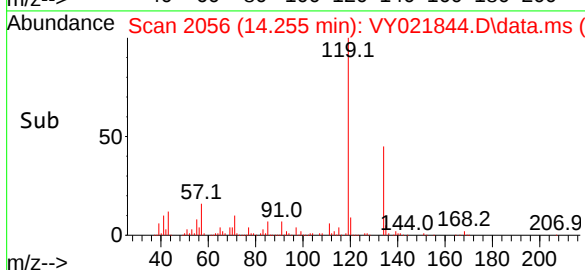
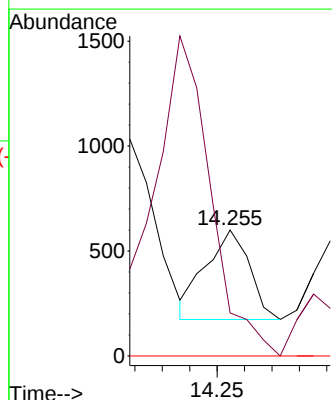
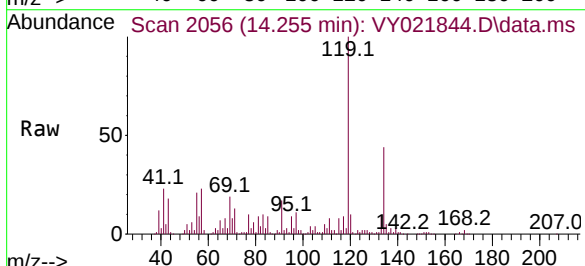
Tgt Ion: 75 Resp: 471

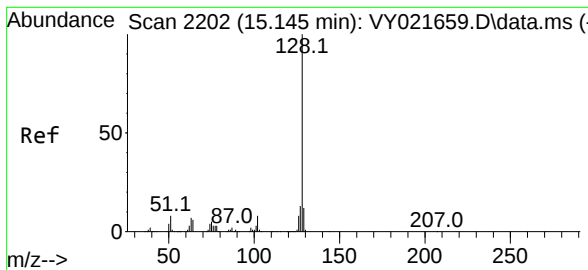
Ion Ratio Lower Upper

75 100

155 433.1 43.0 128.8#

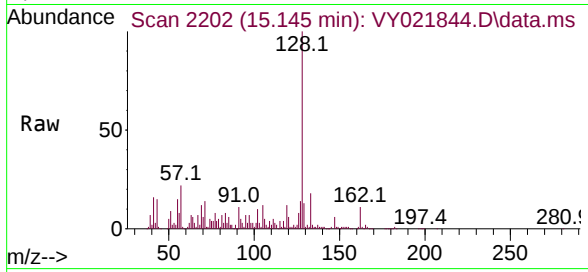
157 0.0 54.0 162.0#





#95
Naphthalene
Concen: 36.271 ug/l
RT: 15.145 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY021844.D
Acq: 10 Apr 2025 17:34

Instrument :
MSVOA_Y
ClientSampleId :
TP-6C-VOC



Tgt Ion:	128	Resp:	162822
Ion	Ratio	Lower	Upper
128	100		
127	15.1	10.8	16.2
129	13.1	8.8	13.2

