

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120820\
 Data File : VY003682.D
 Acq On : 08 Dec 2020 17:52
 Operator : SY/MD
 Sample : L4979-07MS
 Misc : 5.66G/10ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GB1F8MS

Quant Time: Dec 09 02:00:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM120420S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 09 01:58:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	174188	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	110490	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	21885	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	69205	28.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	112.40%
7) Chloroethane-d5	2.77	69	53971	29.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	116.16%
10) 1,1-Dichloroethene-d2	3.86	63	122586	26.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	105.76%
20) 2-Butanone-d5	6.90	46	39136	44.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	89.14%
24) Chloroform-d	7.49	84	112202	25.03	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.12%
26) 1,2-Dichloroethane-d4	8.15	65	60046	23.81	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.24%
29) Benzene-d6	8.12	84	242287	37.88	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	151.52%#
33) 1,2-Dichloropropane-d6	9.12	67	68417	36.14	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	144.56%#
37) Toluene-d8	10.18	98	180651	31.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	126.00%
38) trans-1,3-Dichloropropene-	10.44	79	26423	29.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	116.84%
39) 2-Hexanone-d5	10.79	63	26199	55.24	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	110.48%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	32616	19.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	77.36%
61) 1,2-Dichlorobenzene-d4	13.72	152	18372	23.10	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.40%

Target Compounds

					Ovalue
3) Chloromethane	2.13	50	682	0.321 ug/L #	72
12) 1,1-Dichloroethene	3.89	96	56655	27.178 ug/L	96
13) Acetone	3.96	43	17795	27.643 ug/L	97
14) Carbon disulfide	4.20	76	2935	0.422 ug/L	99
16) Methylene chloride	4.72	84	6661	2.178 ug/L	85
21) 2-Butanone	7.00	43	3202	2.817 ug/L	94
30) Cyclohexane	7.80	56	1372	0.576 ug/L #	87
34) Benzene	8.17	78	230974	36.543 ug/L	100
35) Trichloroethene	8.94	95	50765	29.254 ug/L	99
36) Methylcyclohexane	9.19	83	2047	0.770 ug/L #	88
44) Toluene	10.25	91	222075	33.308 ug/L	99
52) Chlorobenzene	11.51	112	101352	23.099 ug/L	98
53) Ethylbenzene	11.59	91	16532	2.272 ug/L	100
54) m,p-Xylene	11.70	106	1884	0.671 ug/L #	59
55) o-xylene	12.03	106	752	0.279 ug/L	77
59) 1,2,3-Trichloropropane	13.43	75	2754	2.102 ug/L	97
63) 1,3-Dichlorobenzene	13.37	146	372	0.286 ug/L	86

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Quant Title : VOC Analysis
QLast Update : Wed Dec 09 01:58:23 2020
Response via : Initial Calibration

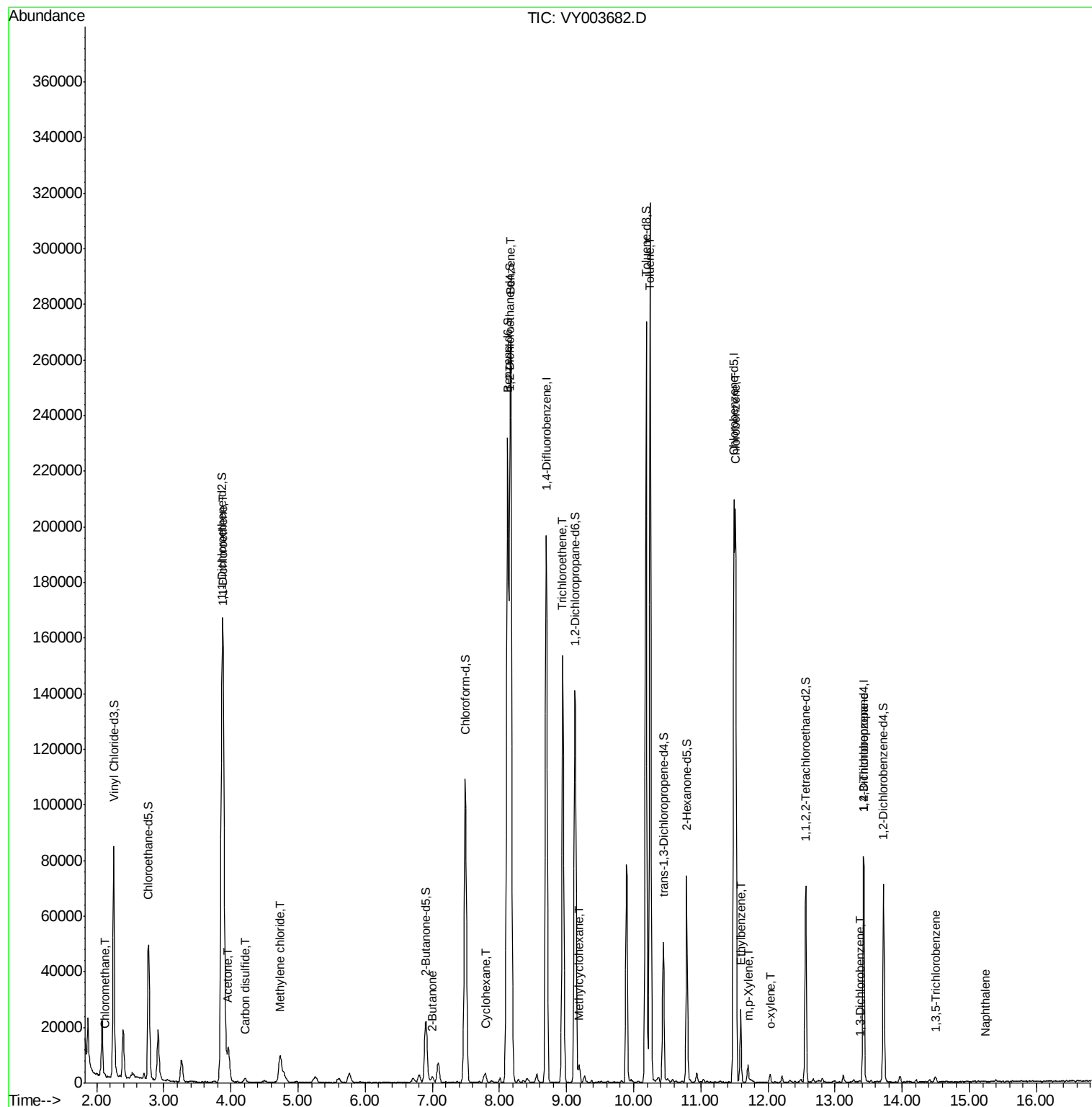
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	14.50	180	505	0.549	ug/L #	88
69) Naphthalene	15.23	128	335	0.203	ug/L #	69

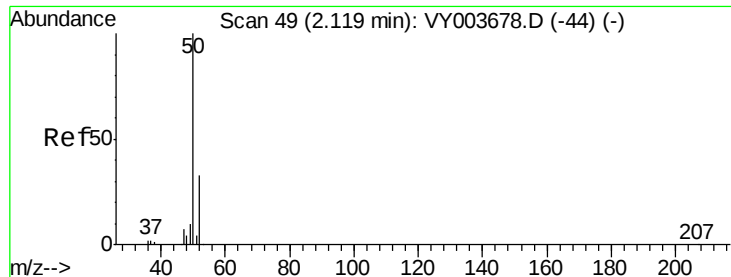
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.321 ug/L

RT: 2.13 min Scan# 50

Delta R.T. 0.01 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

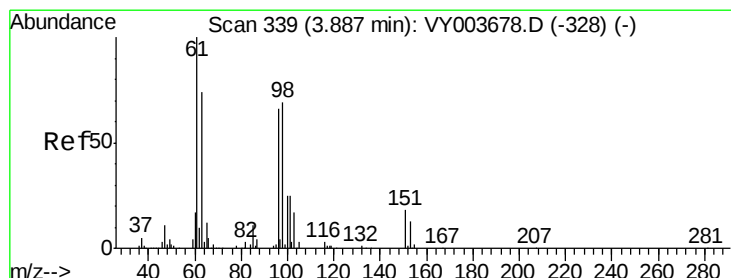
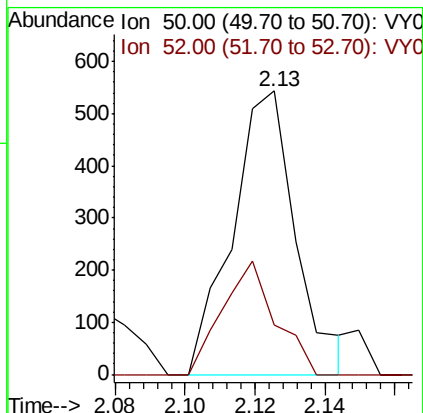
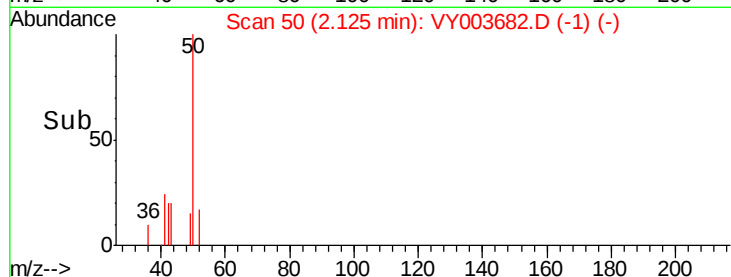
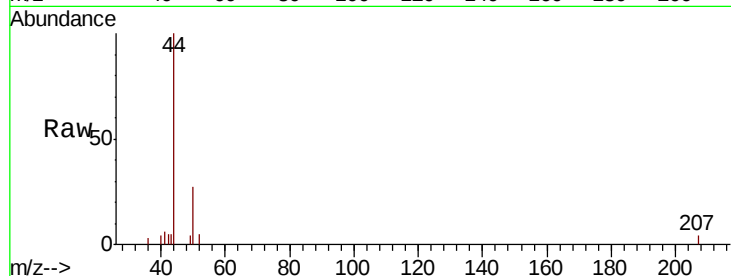
GB1F8MS

Tot Ion: 50 Resp: 682

Ion Ratio Lower Upper

50 100

52 17.3 23.1 42.9#



#12

1,1-Dichloroethene

Concen: 27.178 ug/L

RT: 3.89 min Scan# 339

Delta R.T. 0.00 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

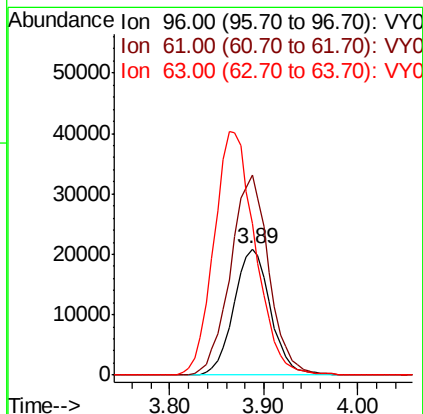
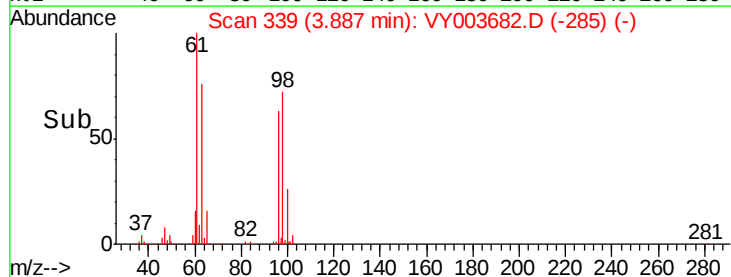
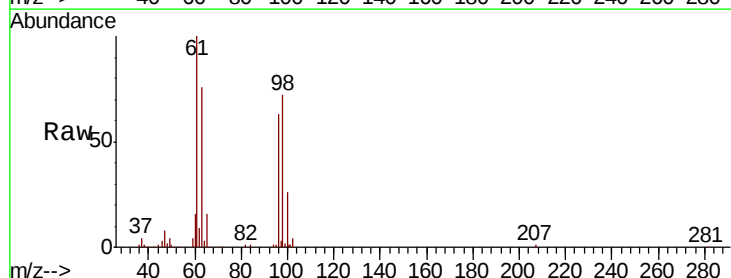
Tgt Ion: 96 Resp: 56655

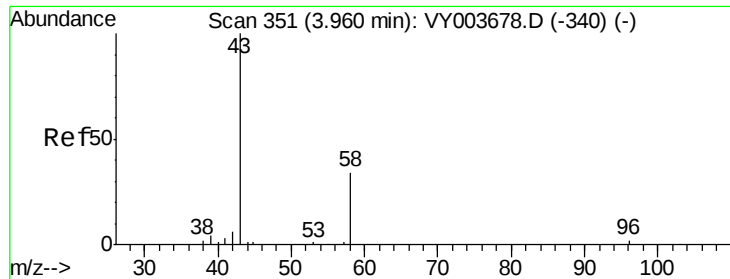
Ion Ratio Lower Upper

96 100

61 159.1 108.5 201.5

63 120.3 87.8 163.0





#13

Acetone

Concen: 27.643 ug/L

RT: 3.96 min Scan# 351

Delta R.T. 0.00 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

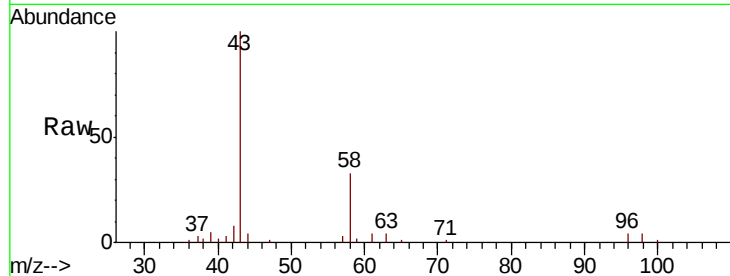
GB1F8MS

Tot Ion: 43 Resp: 17795

Ion Ratio Lower Upper

43 100

58 36.3 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

8000

6000

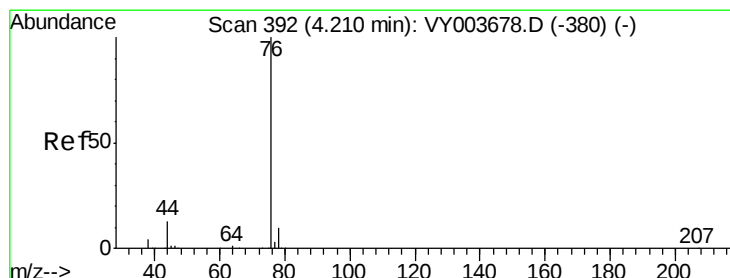
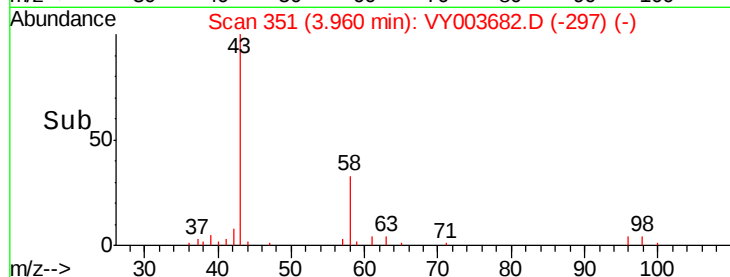
4000

2000

0

3.90 3.95 4.00

Time-->



#14

Carbon disulfide

Concen: 0.422 ug/L

RT: 4.20 min Scan# 391

Delta R.T. -0.01 min

Lab File: VY003682.D

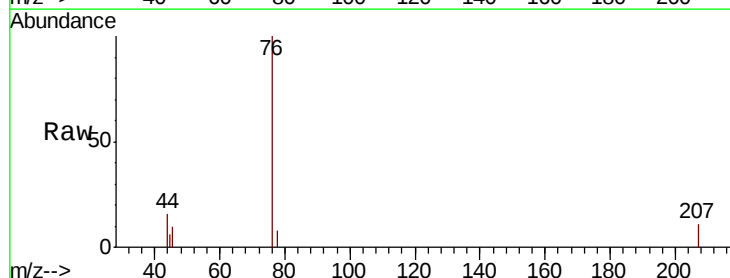
Acq: 08 Dec 2020 17:52

Tgt Ion: 76 Resp: 2935

Ion Ratio Lower Upper

76 100

78 8.4 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0

1200

1000

800

600

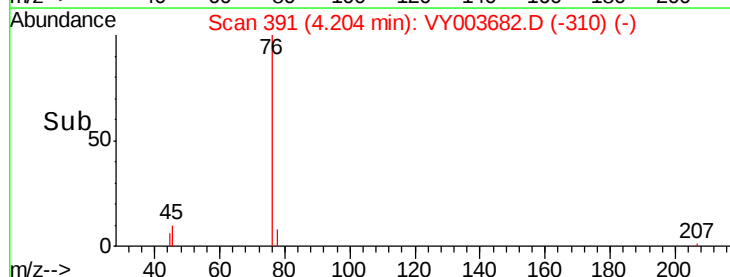
400

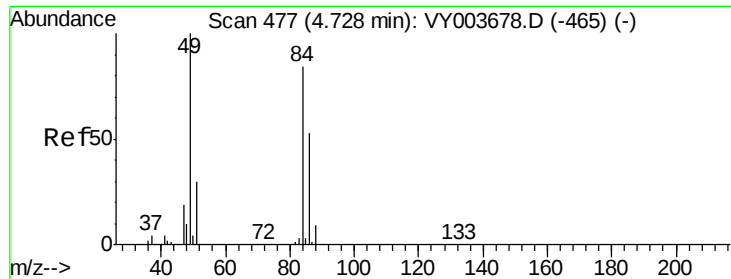
200

0

4.15 4.20 4.25

Time-->

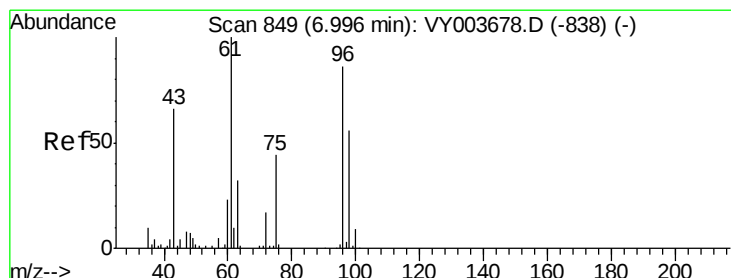
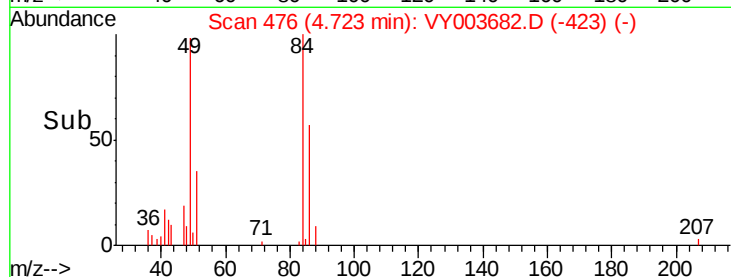
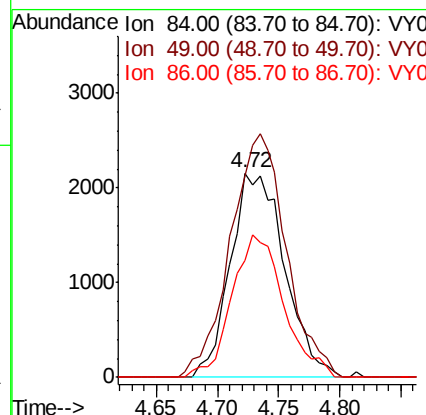
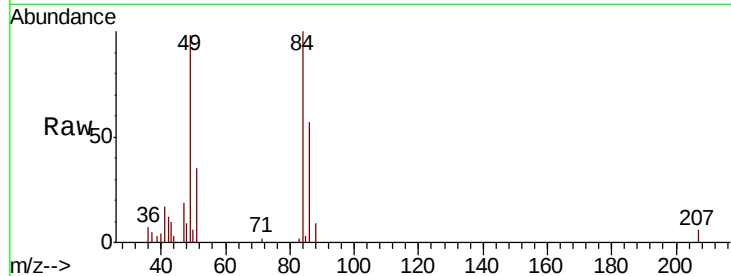




#16
Methvlene chloride
Concen: 2.178 ug/L
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VY003682.D
Acq: 08 Dec 2020 17:52

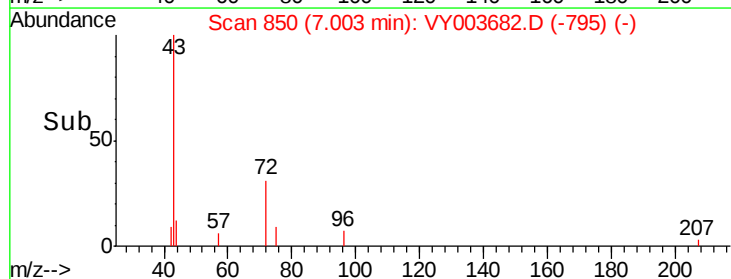
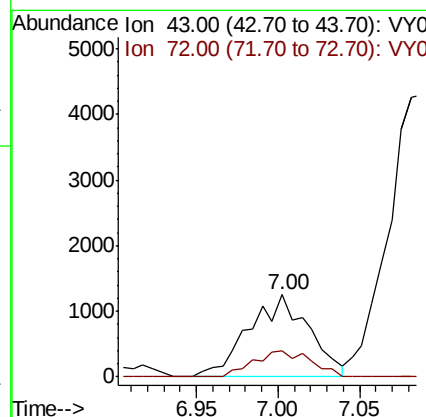
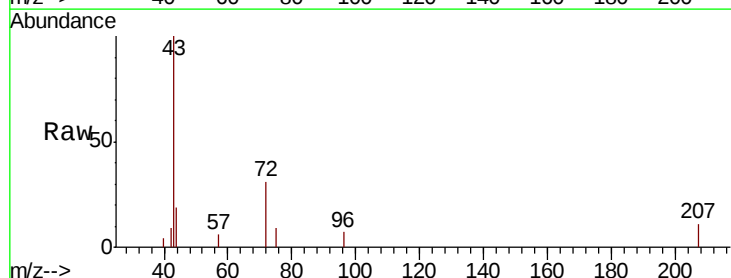
Instrument :
MSVOA_Y
ClientSampleId :
GB1F8MS

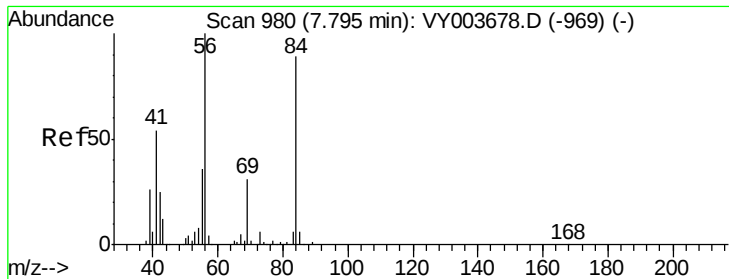
Tot Ion: 84 Resp: 6661
Ion Ratio Lower Upper
84 100
49 98.5 83.7 155.4
86 57.2 45.0 83.6



#21
2-Butanone
Concen: 2.817 ug/L
RT: 7.00 min Scan# 850
Delta R.T. 0.01 min
Lab File: VY003682.D
Acq: 08 Dec 2020 17:52

Tgt Ion: 43 Resp: 3202
Ion Ratio Lower Upper
43 100
72 29.9 13.3 39.9

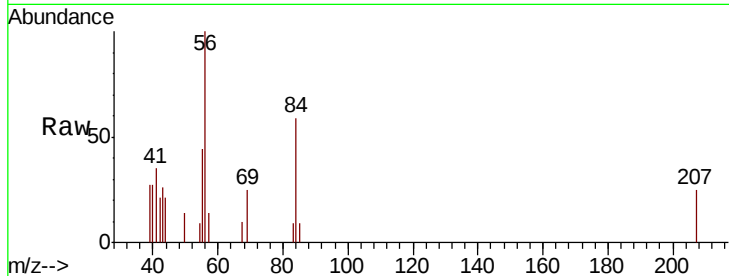




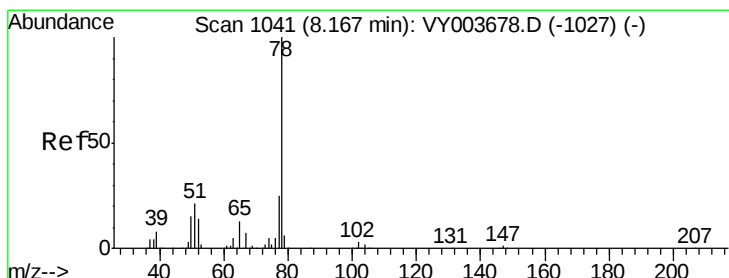
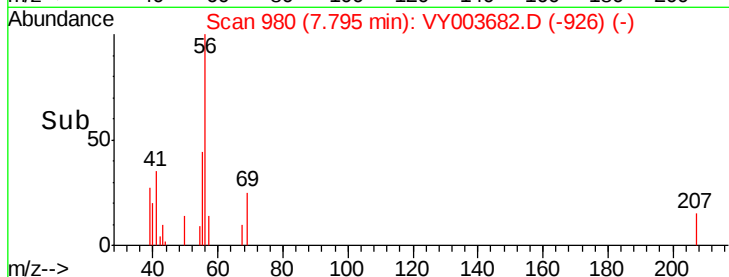
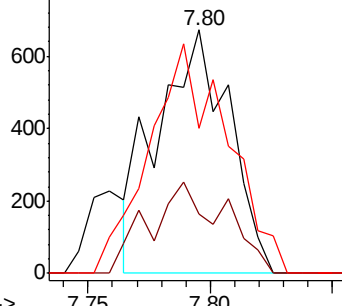
#30
Cyclohexane
Concen: 0.576 ug/L
RT: 7.80 min Scan# 980
Delta R.T. 0.00 min
Lab File: VY003682.D
Acq: 08 Dec 2020 17:52

Instrument :
MSVOA_Y
ClientSampleId :
GB1F8MS

Tot Ion: 56 Resp: 1372
Ion Ratio Lower Upper
56 100
69 19.9 23.8 35.8#
84 102.7 73.2 109.8

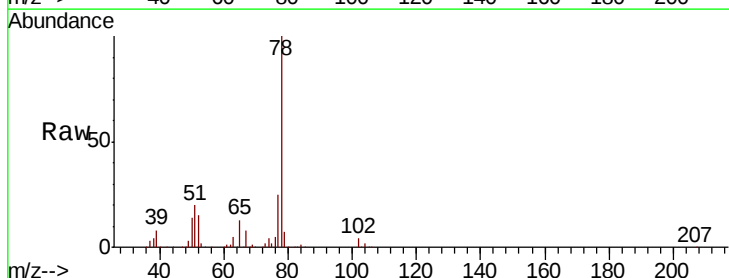


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

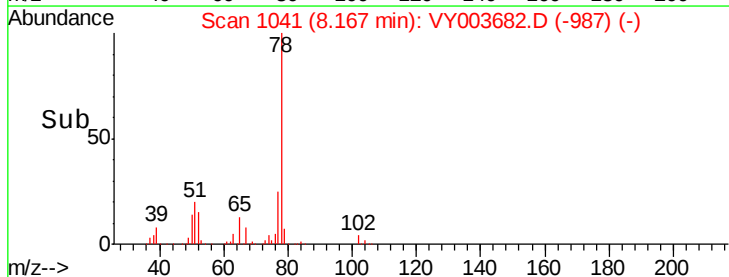
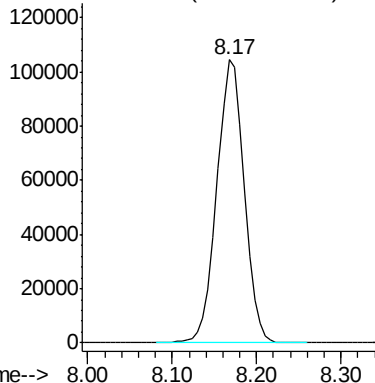


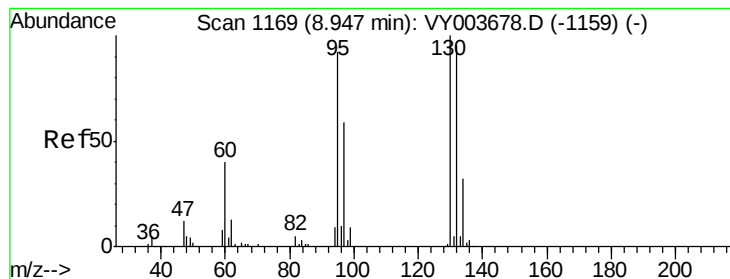
#34
Benzene
Concen: 36.543 ug/L
RT: 8.17 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VY003682.D
Acq: 08 Dec 2020 17:52

Tgt Ion: 78 Resp: 230974



Abundance Ion 78.00 (77.70 to 78.70): VY0





#35

Trichloroethene

Concen: 29.254 ug/L

RT: 8.94 min Scan# 1168

Delta R.T. -0.01 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

GB1F8MS

Tot Ion: 95 Resp: 50765

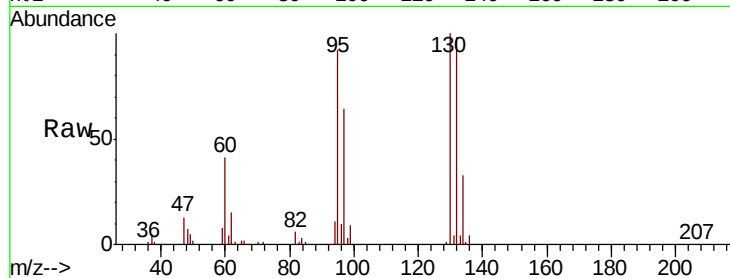
Ion Ratio Lower Upper

95 100

97 66.4 45.8 85.0

132 107.4 74.2 137.8

130 109.9 76.2 141.6

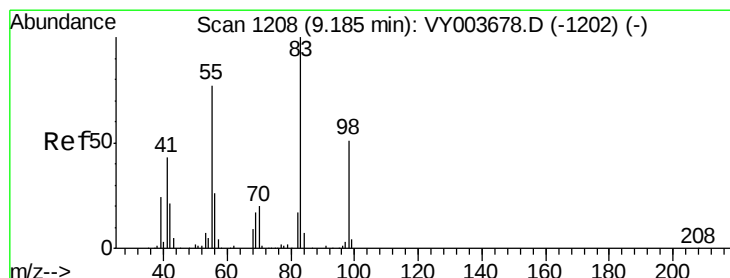
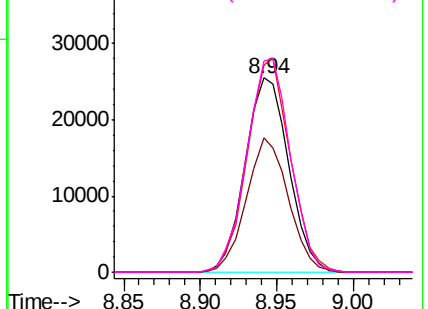
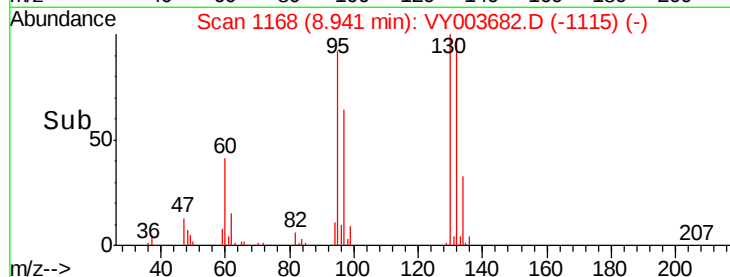


Abundance Ion 95.00 (94.70 to 95.70): VY0

Ion 97.00 (96.70 to 97.70): VY0

Ion 132.00 (131.70 to 132.70): VY0

Ion 130.00 (129.70 to 130.70): VY0



#36

Methylcyclohexane

Concen: 0.770 ug/L

RT: 9.19 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

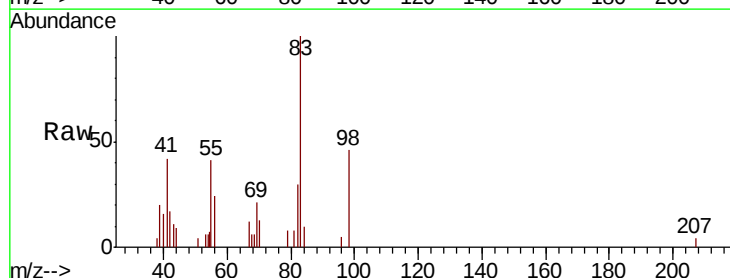
Tgt Ion: 83 Resp: 2047

Ion Ratio Lower Upper

83 100

55 75.8 56.4 84.6

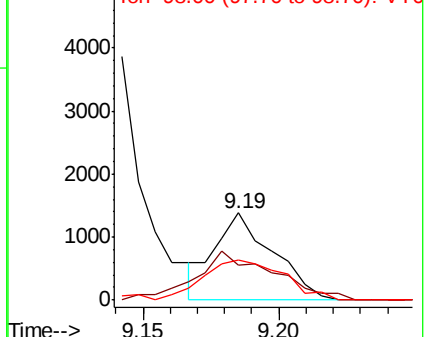
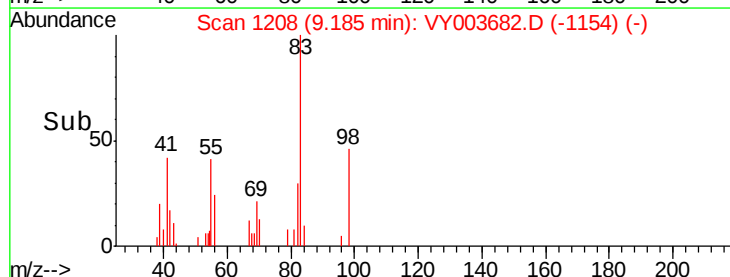
98 64.0 40.3 60.5#

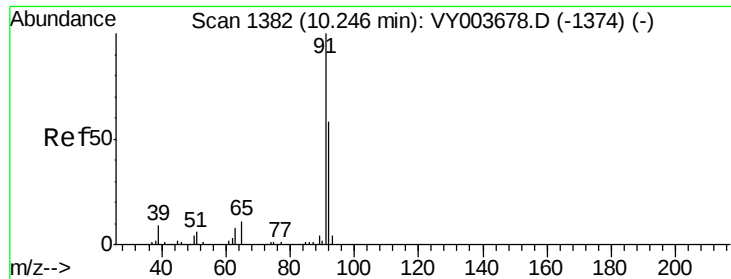


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#44

Toluene

Concen: 33.308 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

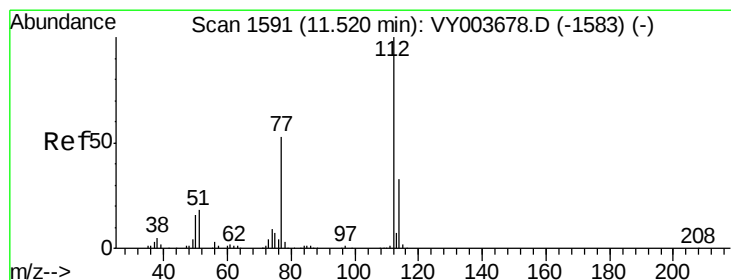
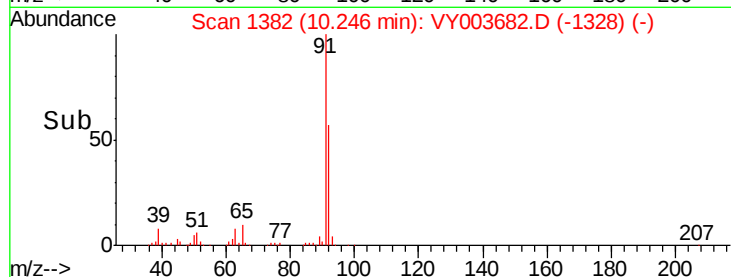
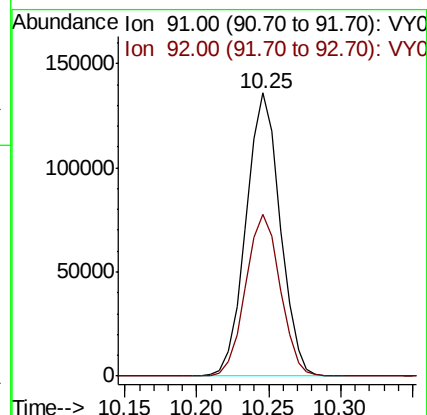
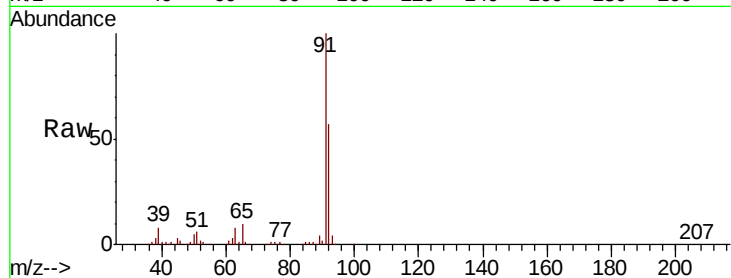
GB1F8MS

Tot Ion: 91 Resp: 222075

Ion Ratio Lower Upper

91 100

92 57.3 39.8 73.8



#52

Chlorobenzene

Concen: 23.099 ug/L

RT: 11.51 min Scan# 1590

Delta R.T. -0.01 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

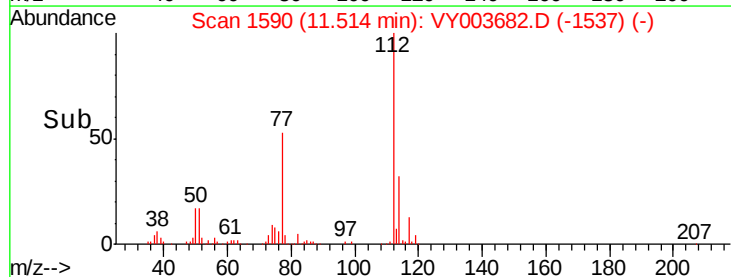
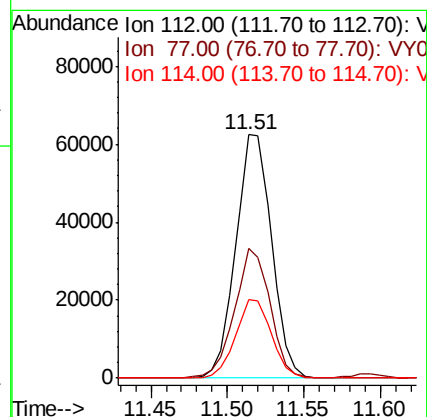
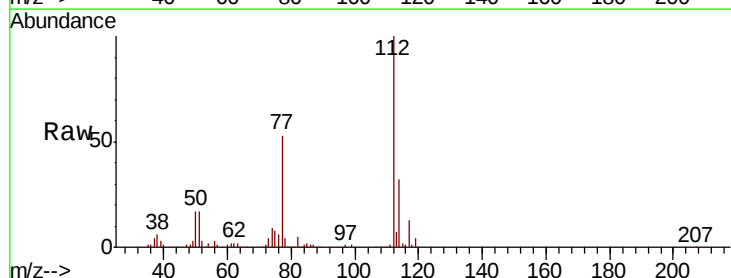
Tgt Ion: 112 Resp: 101352

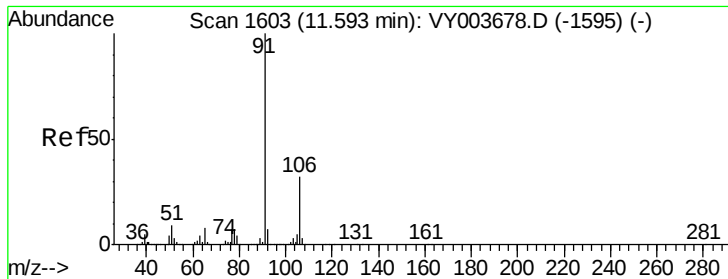
Ion Ratio Lower Upper

112 100

77 53.1 44.4 66.6

114 32.5 22.4 41.6





#53

Ethylbenzene

Concen: 2.272 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

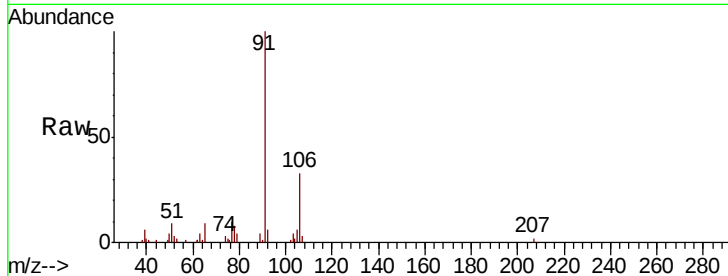
GB1F8MS

Tot Ion: 91 Resp: 16532

Ion Ratio Lower Upper

91 100

106 33.1 23.3 43.3



Abundance Ion 91.00 (90.70 to 91.70): VY003678.D (-1595) (-)

Ion 106.00 (105.70 to 106.70): VY003678.D (-1595) (-)

11.59

12000

10000

8000

6000

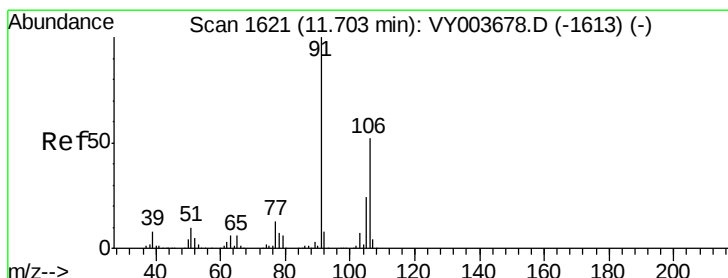
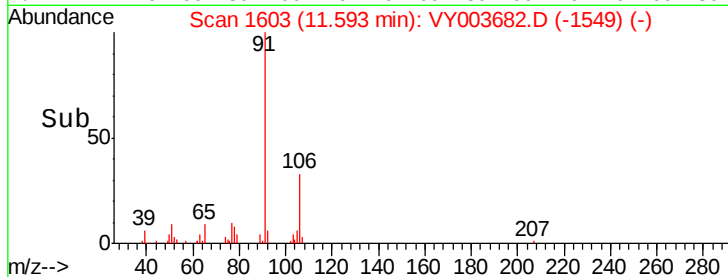
4000

2000

0

Time-->

11.55 11.60 11.65



#54

m,p-Xylene

Concen: 0.671 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003682.D

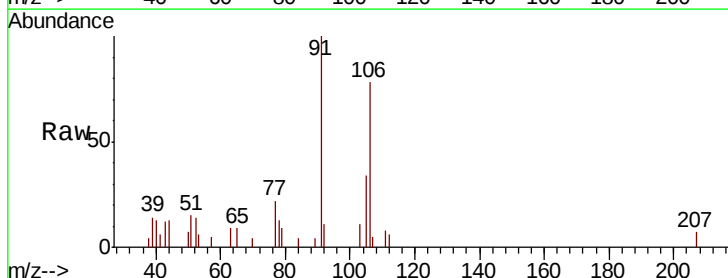
Acq: 08 Dec 2020 17:52

Tgt Ion: 106 Resp: 1884

Ion Ratio Lower Upper

106 100

91 128.6 131.3 243.9#



Abundance Ion 106.00 (105.70 to 106.70): VY003678.D (-1613) (-)

Ion 91.00 (90.70 to 91.70): VY003678.D (-1613) (-)

11.70

2000

1500

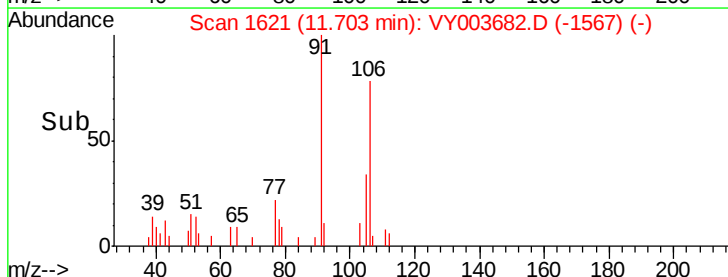
1000

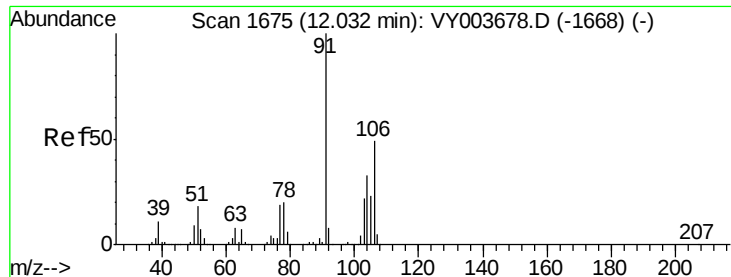
500

0

Time-->

11.65 11.70 11.75





#55

o-xylene

Concen: 0.279 ug/L

RT: 12.03 min Scan# 1675

Delta R.T. 0.00 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

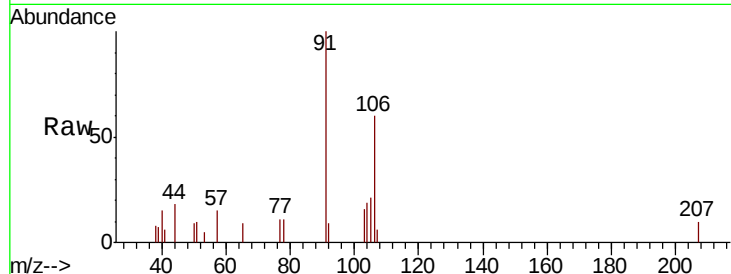
GB1F8MS

Tot Ion:106 Resp: 752

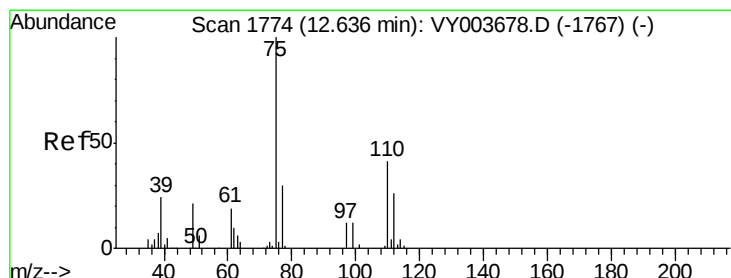
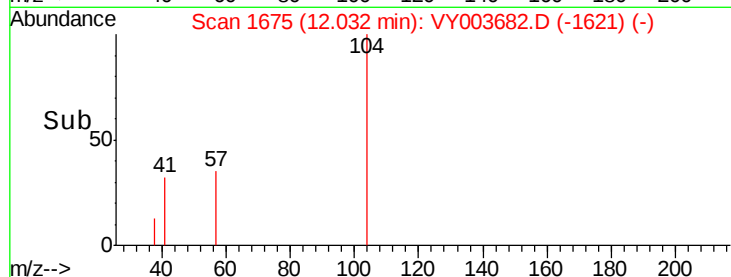
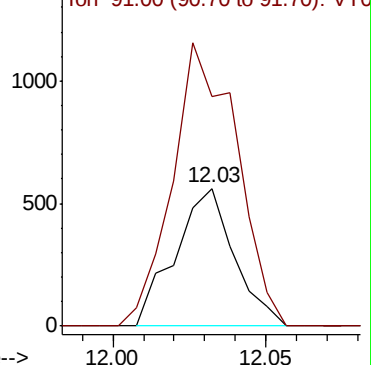
Ion Ratio Lower Upper

106 100

91 166.7 141.7 263.3



Abundance Ion 106.00 (105.70 to 106.70): VY003678.D (-1668) (-)



#59

1,2,3-Trichloropropane

Concen: 2.102 ug/L

RT: 13.43 min Scan# 1904

Delta R.T. 0.79 min

Lab File: VY003682.D

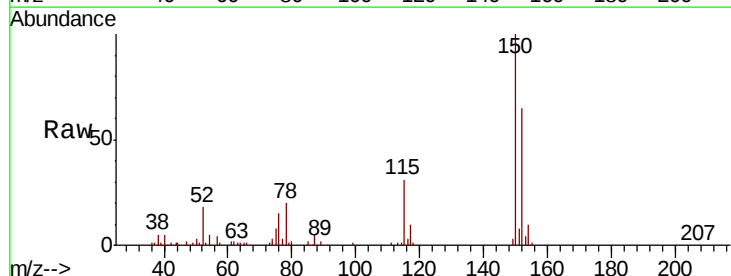
Acq: 08 Dec 2020 17:52

Tgt Ion: 75 Resp: 2754

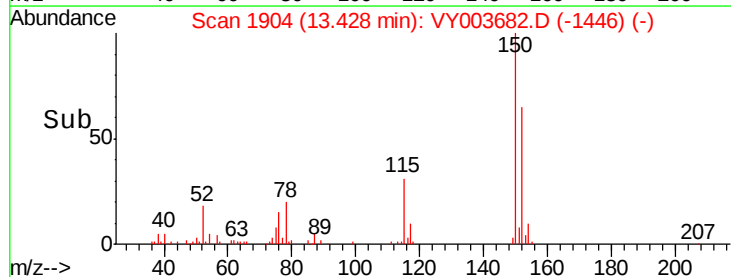
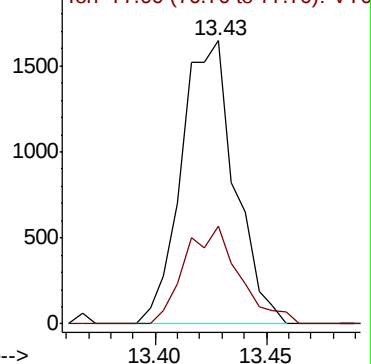
Ion Ratio Lower Upper

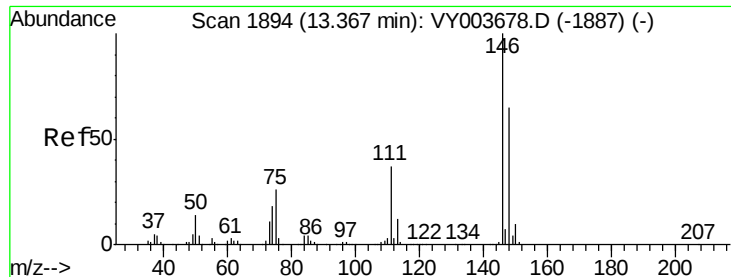
75 100

77 34.3 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VY003678.D (-1767) (-)





#63

1,3-Dichlorobenzene

Concen: 0.286 ug/L

RT: 13.37 min Scan# 1895

Delta R.T. 0.01 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

GB1F8MS

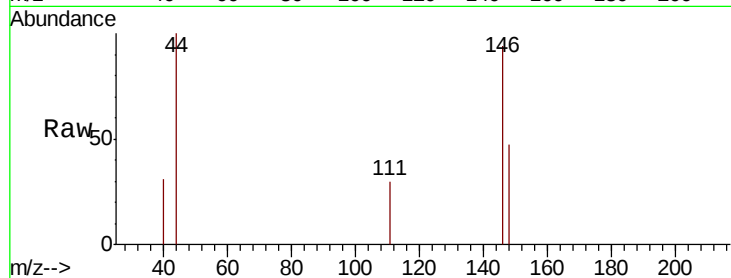
Tot Ion:146 Resp: 372

Ion Ratio Lower Upper

146 100

111 31.5 26.0 48.4

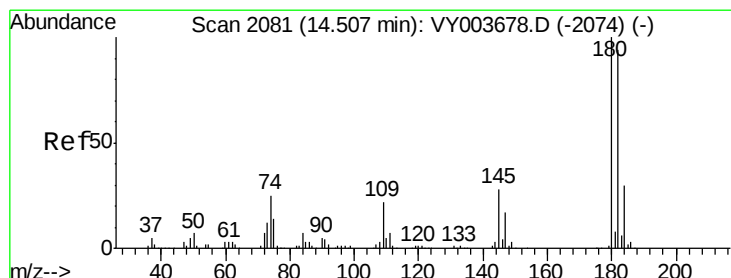
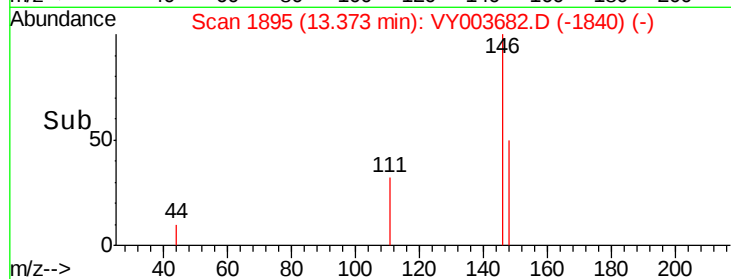
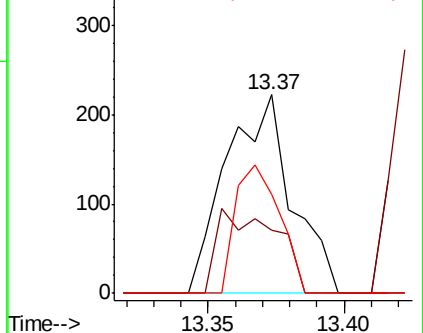
148 50.0 43.7 81.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.549 ug/L

RT: 14.50 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Tgt Ion:180 Resp: 505

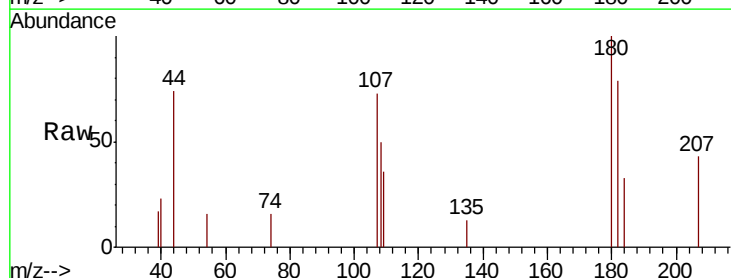
Ion Ratio Lower Upper

180 100

182 95.2 76.0 114.0

184 36.0 24.2 36.2

145 0.0 22.2 33.2#

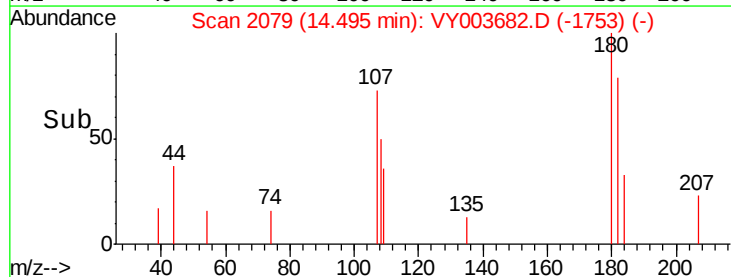
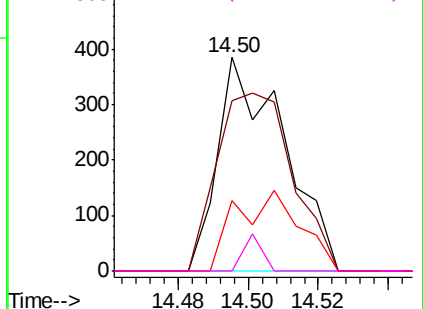


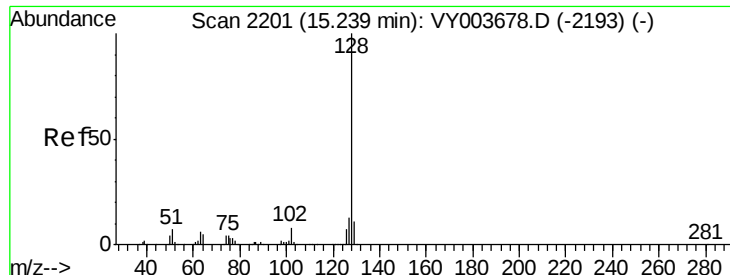
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 0.203 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. -0.01 min

Lab File: VY003682.D

Acq: 08 Dec 2020 17:52

Instrument :

MSVOA_Y

ClientSampleId :

GB1F8MS

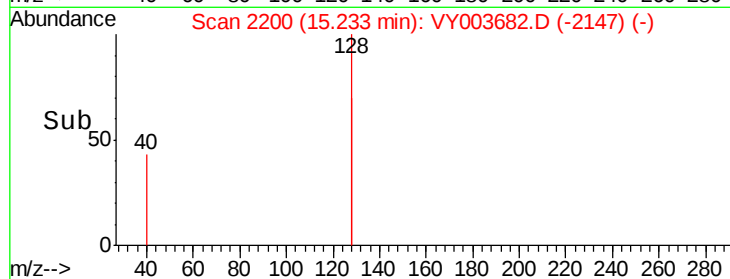
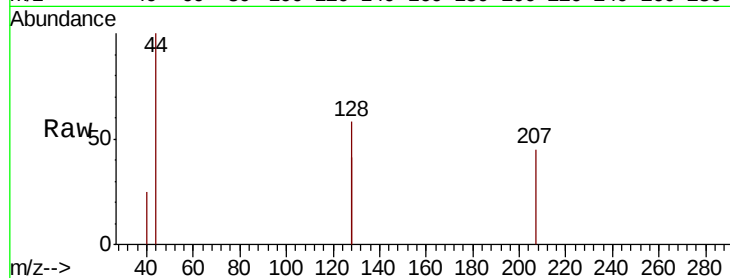
Tot Ion:128 Resp: 335

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 0.0 10.2 15.4#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

