

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120820\
 Data File : VY003683.D
 Acq On : 08 Dec 2020 18:15
 Operator : SY/MD
 Sample : L4979-08MSD
 Misc : 4.68G/10ML/MSVOA Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GB1F8MSD

Quant Time: Dec 09 02:00:54 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	185632	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	118759	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.43	152	24116	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	73112	27.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.40%
7) Chloroethane-d5	2.77	69	56920	28.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	114.96%
10) 1,1-Dichloroethene-d2	3.86	63	130547	26.42	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	105.68%
20) 2-Butanone-d5	6.90	46	35849	38.31	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	76.62%
24) Chloroform-d	7.49	84	120713	25.27	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.08%
26) 1,2-Dichloroethane-d4	8.15	65	64549	24.01	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.04%
29) Benzene-d6	8.12	84	257868	37.51	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	150.04%#
33) 1,2-Dichloropropane-d6	9.12	67	73283	36.02	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	144.08%#
37) Toluene-d8	10.18	98	190949	30.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	123.92%
38) trans-1,3-Dichloropropene-	10.44	79	27712	28.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	114.00%
39) 2-Hexanone-d5	10.79	63	24880	48.81	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.62%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	34689	19.14	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	76.56%
61) 1,2-Dichlorobenzene-d4	13.72	152	19984	22.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.24%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.11	50	655	0.289	ug/L	93
12) 1,1-Dichloroethene	3.89	96	62102	27.955	ug/L	87
13) Acetone	3.96	43	14730	21.472	ug/L	99
14) Carbon disulfide	4.21	76	2057	0.278	ug/L #	93
16) Methylene chloride	4.73	84	7966	2.444	ug/L	93
21) 2-Butanone	6.99	43	2348	1.938	ug/L	91
30) Cyclohexane	7.78	56	1107	0.433	ug/L #	58
34) Benzene	8.17	78	250200	36.828	ug/L	100
35) Trichloroethene	8.95	95	54368	29.149	ug/L	98
36) Methylcyclohexane	9.19	83	1692	0.592	ug/L #	80
42) cis-1,3-Dichloropropene	9.90	75	2276	0.849	ug/L	86
44) Toluene	10.25	91	241152	33.651	ug/L	97
52) Chlorobenzene	11.52	112	108062	22.913	ug/L	96
53) Ethylbenzene	11.59	91	15338	1.961	ug/L	93
54) m,p-Xylene	11.70	106	1907	0.632	ug/L	83
55) o-xylene	12.02	106	794	0.274	ug/L #	58
59) 1,2,3-Trichloropropane	13.43	75	2777	1.972	ug/L	97

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Instrument :
MSVOA_Y
ClientSampleId :
GB1F8MSD

Quant Time: Dec 09 02:00:54 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

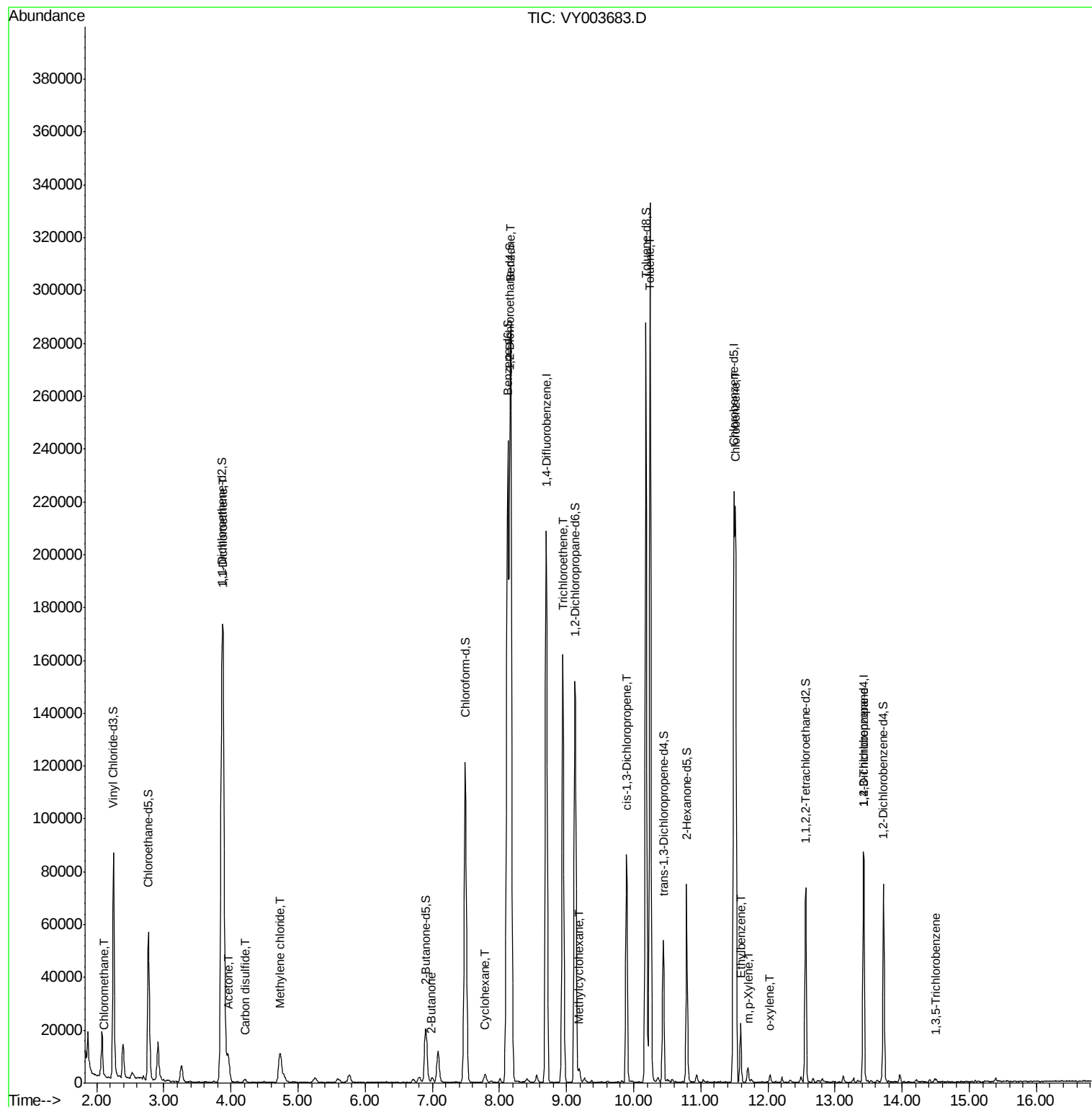
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	14.50	180	422	0.416	ug/L #	69

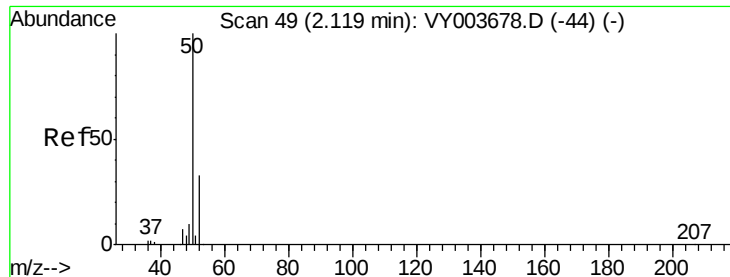
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY120820\
Data File : VY003683.D
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Quant Title : VOC Analysis
QLast Update : Wed Dec 09 01:58:23 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.289 ug/L

RT: 2.11 min Scan# 48

Delta R.T. -0.01 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

Instrument :

MSVOA_Y

ClientSampleId :

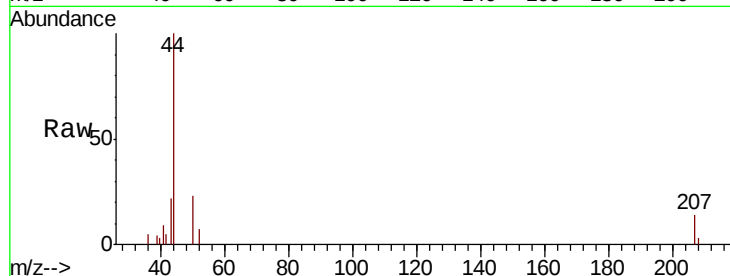
GB1F8MSD

Tot Ion: 50 Resp: 655

Ion Ratio Lower Upper

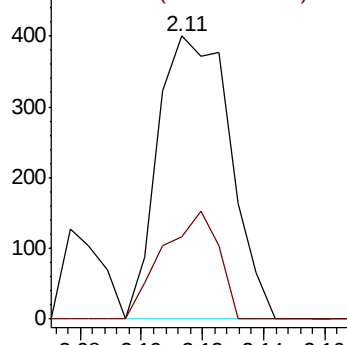
50 100

52 29.3 23.1 42.9

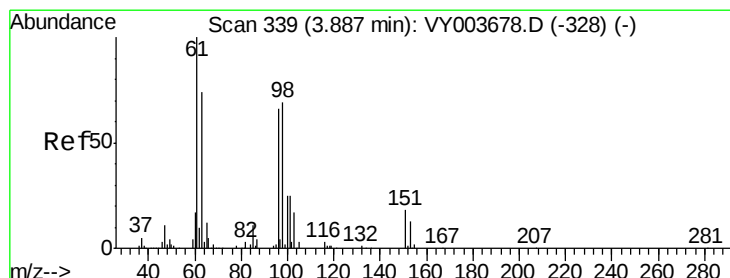
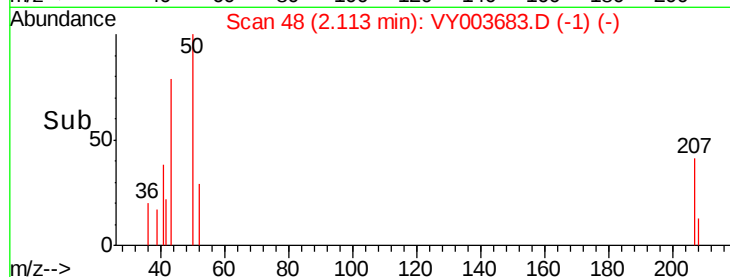


Abundance Ion 50.00 (49.70 to 50.70): VY0

Ion 52.00 (51.70 to 52.70): VY0



Time-->



#12

1,1-Dichloroethene

Concen: 27.955 ug/L

RT: 3.89 min Scan# 339

Delta R.T. 0.00 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

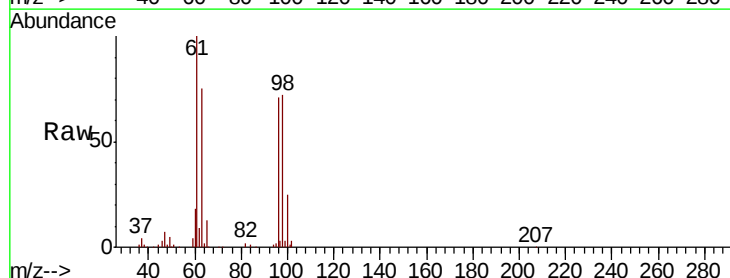
Tgt Ion: 96 Resp: 62102

Ion Ratio Lower Upper

96 100

61 141.5 108.5 201.5

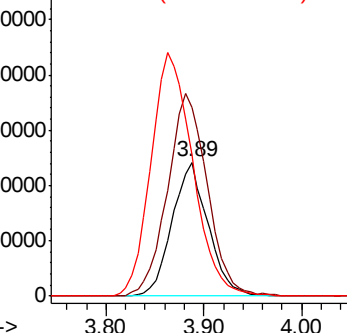
63 105.8 87.8 163.0



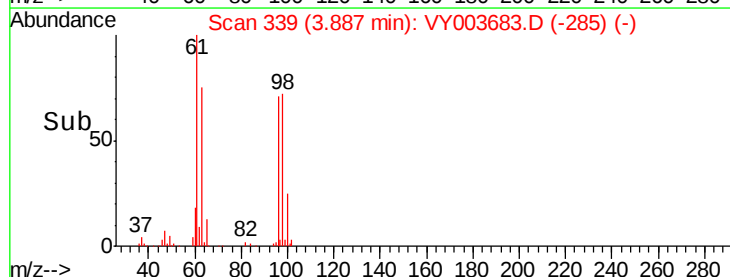
Abundance Ion 96.00 (95.70 to 96.70): VY0

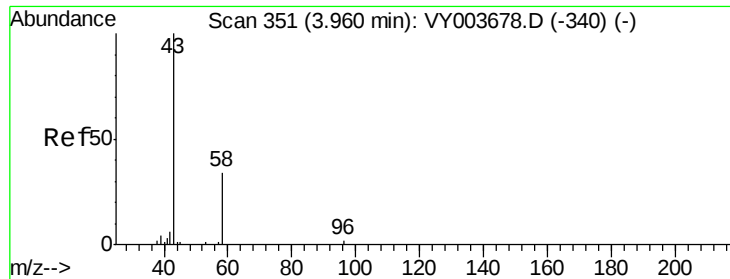
Ion 61.00 (60.70 to 61.70): VY0

Ion 63.00 (62.70 to 63.70): VY0



Time-->





#13

Acetone

Concen: 21.472 ug/L

RT: 3.96 min Scan# 351

Delta R.T. 0.00 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

Instrument :

MSVOA_Y

ClientSampleId :

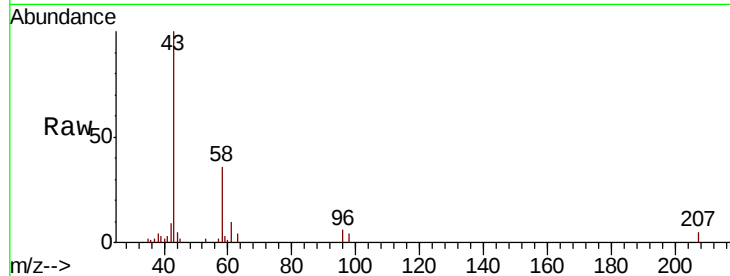
GB1F8MSD

Tot Ion: 43 Resp: 14730

Ion Ratio Lower Upper

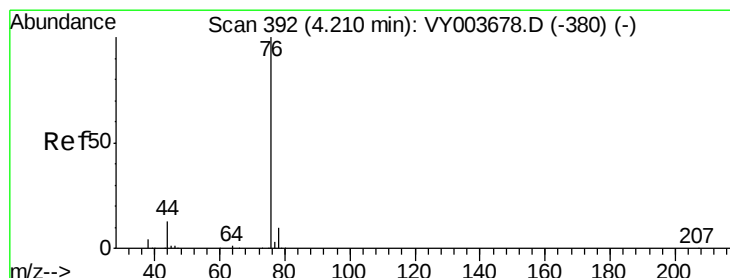
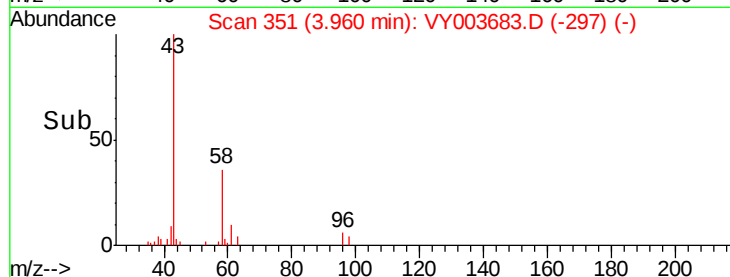
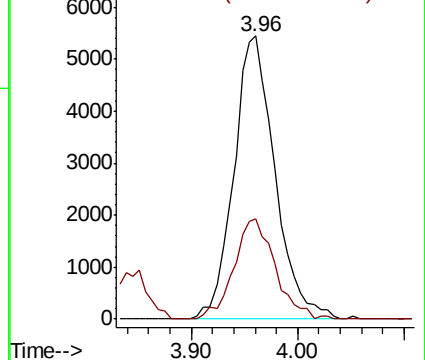
43 100

58 35.2 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#14

Carbon disulfide

Concen: 0.278 ug/L

RT: 4.21 min Scan# 392

Delta R.T. 0.00 min

Lab File: VY003683.D

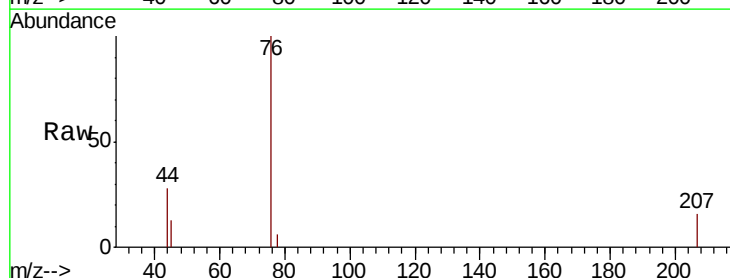
Acq: 08 Dec 2020 18:15

Tgt Ion: 76 Resp: 2057

Ion Ratio Lower Upper

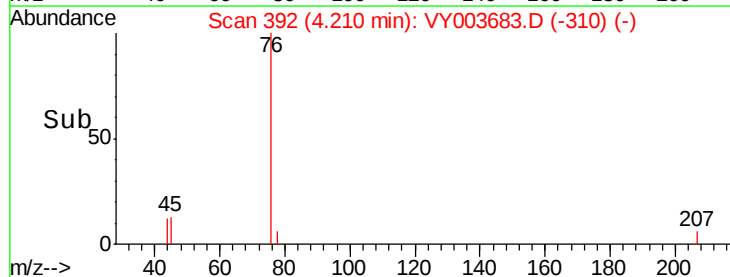
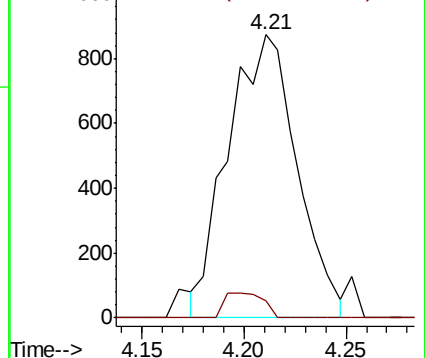
76 100

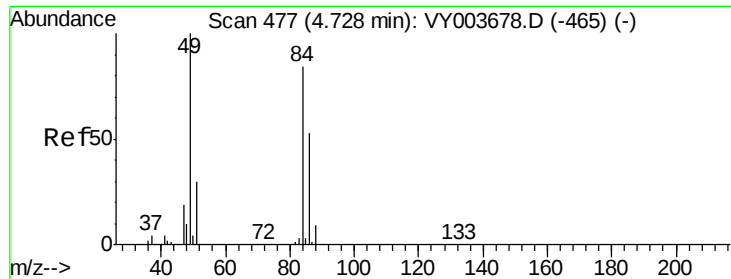
78 6.3 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0

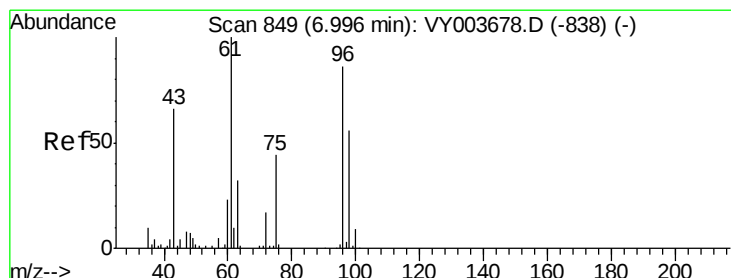
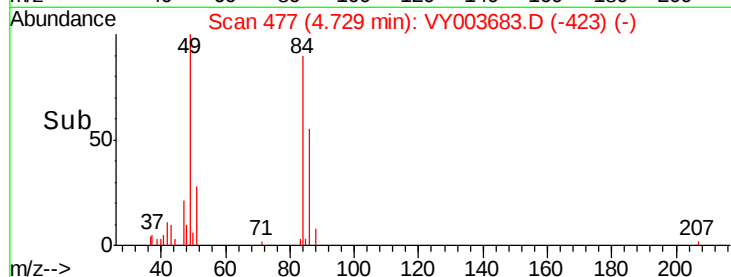
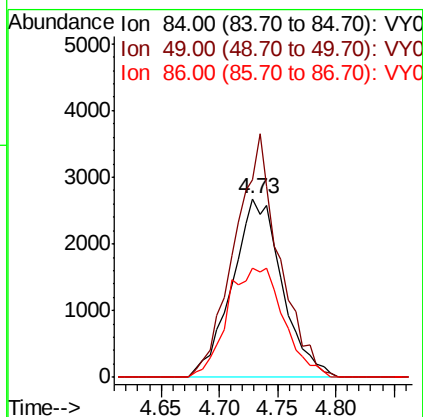
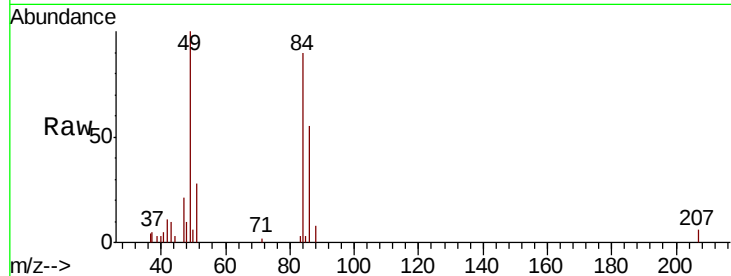




#16
Methvlene chloride
Concen: 2.444 ug/L
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VY003683.D
Acq: 08 Dec 2020 18:15

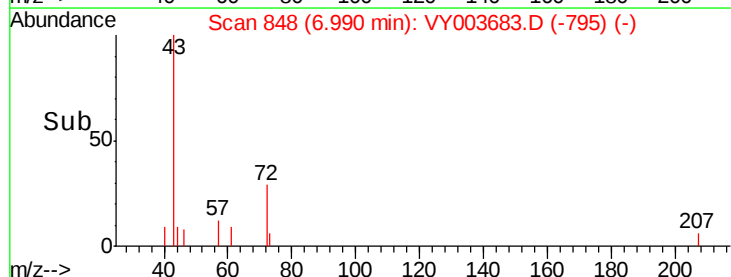
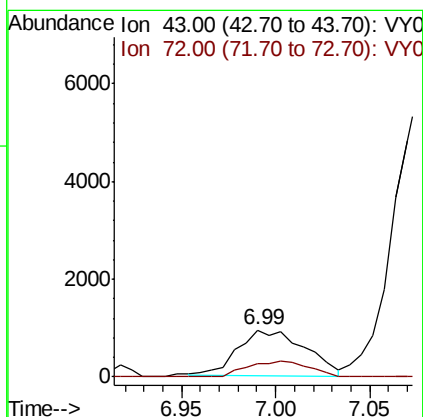
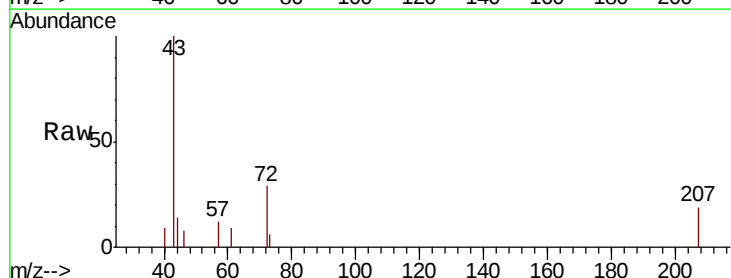
Instrument :
MSVOA_Y
ClientSampleId :
GB1F8MSD

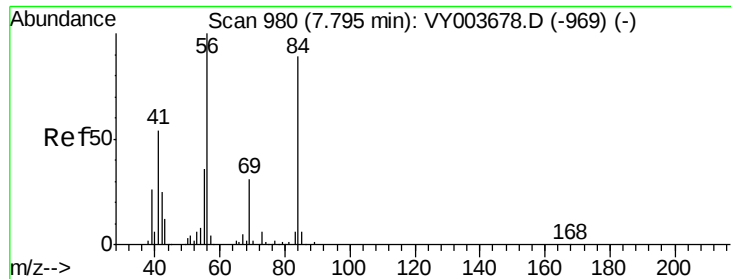
Tot Ion: 84 Resp: 7966
Ion Ratio Lower Upper
84 100
49 110.6 83.7 155.4
86 61.0 45.0 83.6



#21
2-Butanone
Concen: 1.938 ug/L
RT: 6.99 min Scan# 848
Delta R.T. -0.01 min
Lab File: VY003683.D
Acq: 08 Dec 2020 18:15

Tgt Ion: 43 Resp: 2348
Ion Ratio Lower Upper
43 100
72 31.1 13.3 39.9

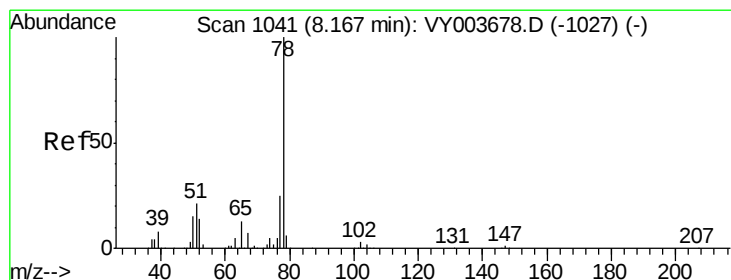
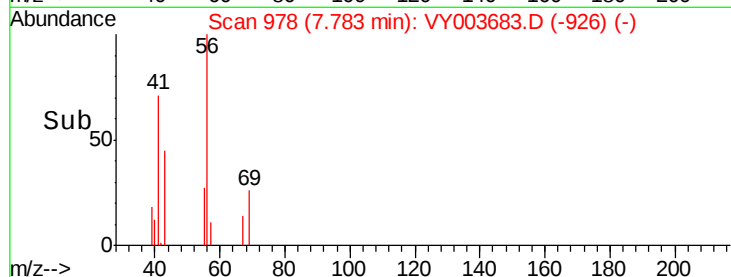
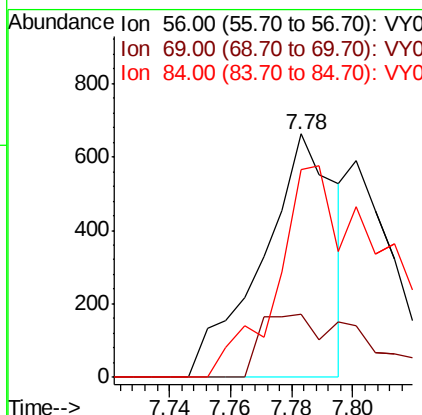
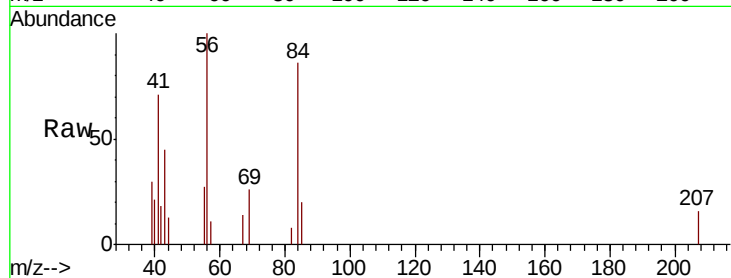




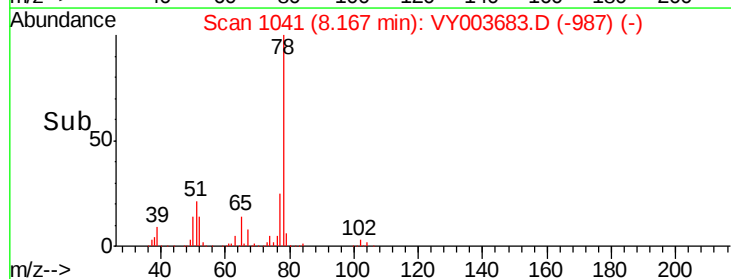
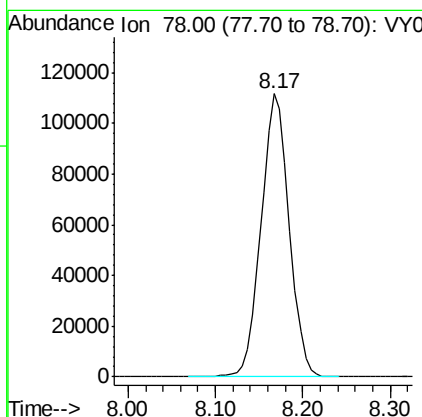
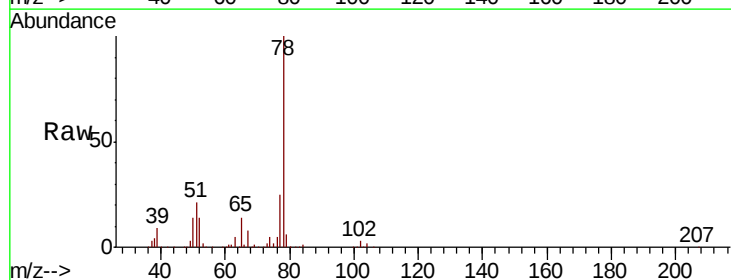
#30
Cyclohexane
Concen: 0.433 ug/L
RT: 7.78 min Scan# 978
Delta R.T. -0.01 min
Lab File: VY003683.D
Acq: 08 Dec 2020 18:15

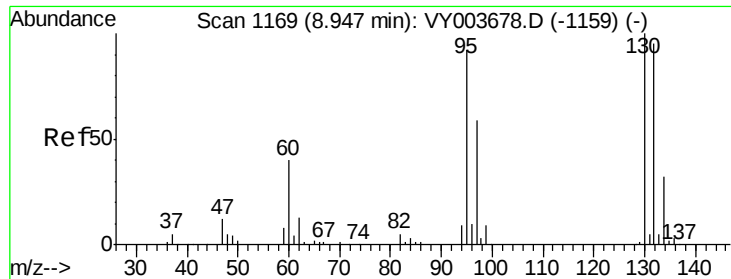
Instrument :
MSVOA_Y
ClientSampleId :
GB1F8MSD

Tot Ion: 56 Resp: 1107
Ion Ratio Lower Upper
56 100
69 20.1 23.8 35.8#
84 44.3 73.2 109.8#



#34
Benzene
Concen: 36.828 ug/L
RT: 8.17 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VY003683.D
Acq: 08 Dec 2020 18:15
Tgt Ion: 78 Resp: 250200





#35

Trichloroethene

Concen: 29.149 ug/L

RT: 8.95 min Scan# 1169

Delta R.T. 0.00 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

Instrument :

MSVOA_Y

ClientSampleId :

GB1F8MSD

Tot Ion: 95 Resp: 54368

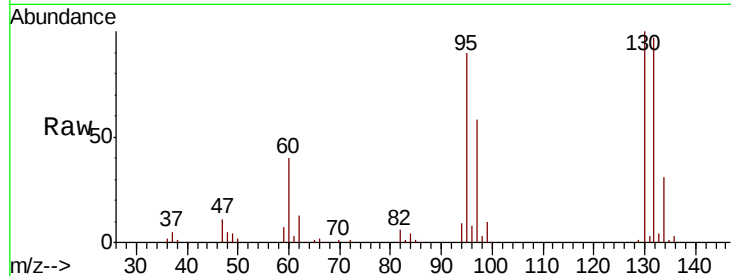
Ion Ratio Lower Upper

95 100

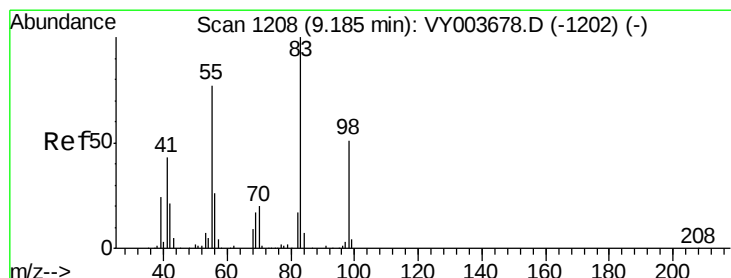
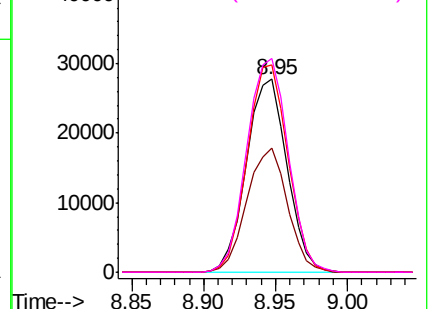
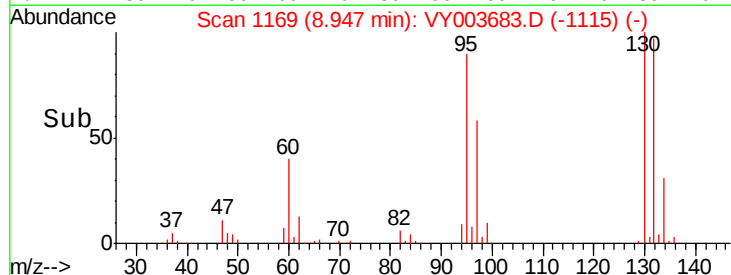
97 64.0 45.8 85.0

132 107.2 74.2 137.8

130 112.8 76.2 141.6



Abundance Ion 95.00 (94.70 to 95.70): VY003678.D (-1159) (-)



#36

Methylcyclohexane

Concen: 0.592 ug/L

RT: 9.19 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

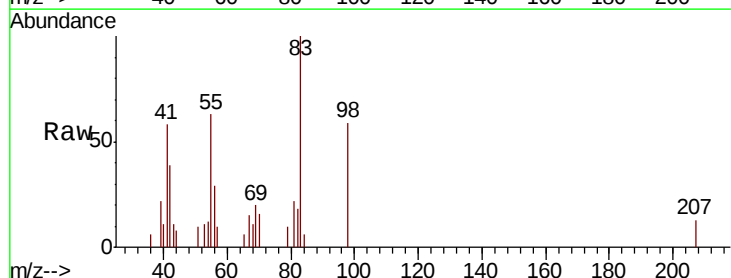
Tgt Ion: 83 Resp: 1692

Ion Ratio Lower Upper

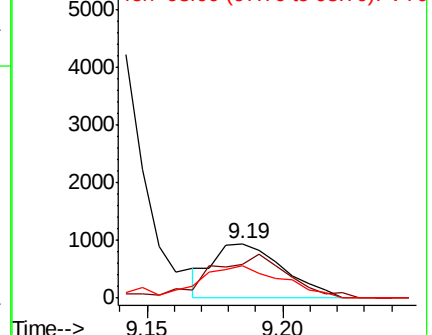
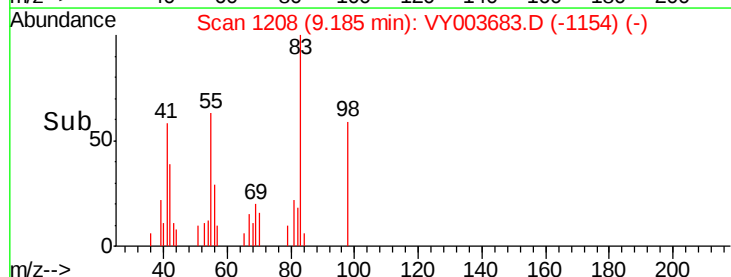
83 100

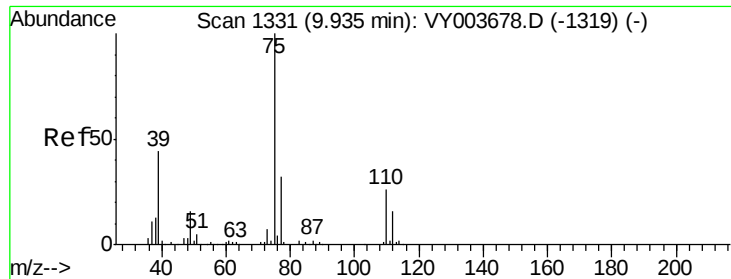
55 57.2 56.4 84.6

98 68.4 40.3 60.5#



Abundance Ion 83.00 (82.70 to 83.70): VY003678.D (-1202) (-)



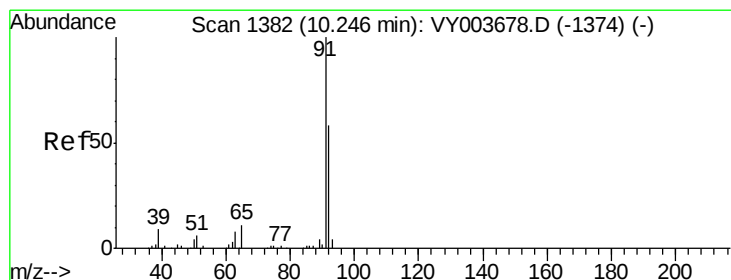
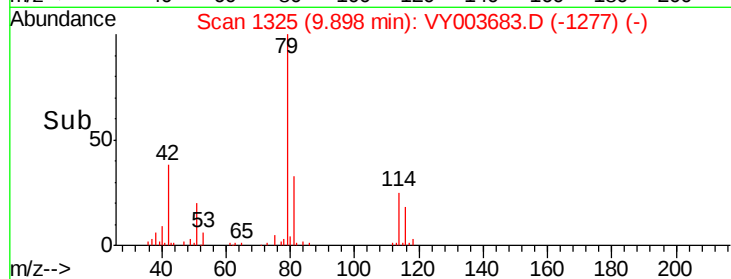
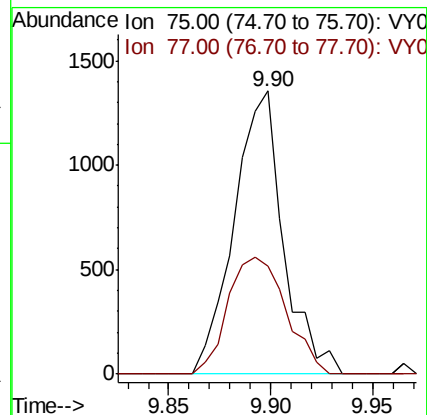
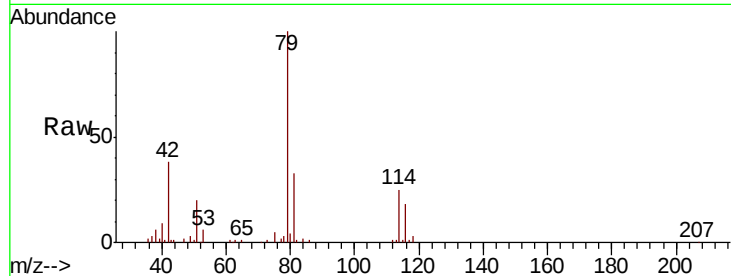


#42

cis-1,3-Dichloropropene
 Concen: 0.849 ug/L
 RT: 9.90 min Scan# 1325
 Delta R.T. -0.04 min
 Lab File: VY003683.D
 Acq: 08 Dec 2020 18:15

Instrument :
 MSVOA_Y
 ClientSampleId :
 GB1F8MSD

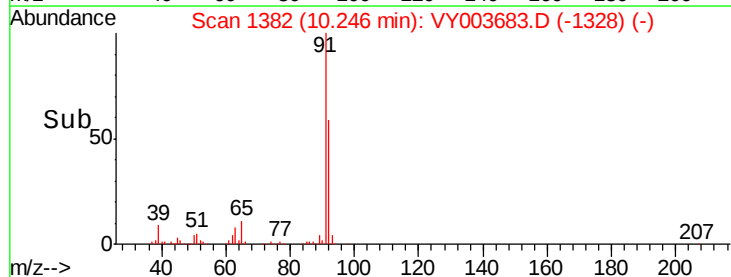
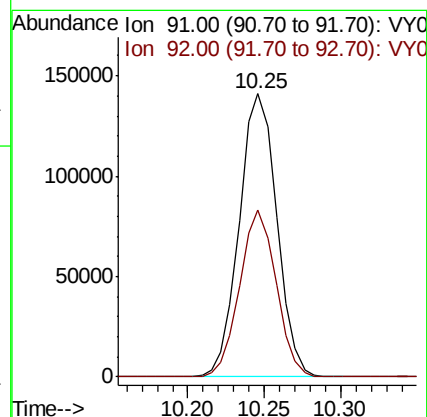
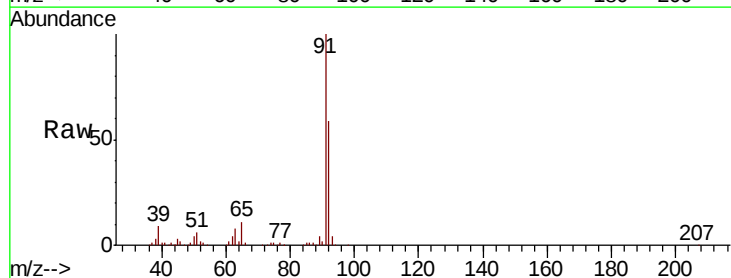
Tot Ion: 75 Resp: 2276
 Ion Ratio Lower Upper
 75 100
 77 38.0 21.3 39.6

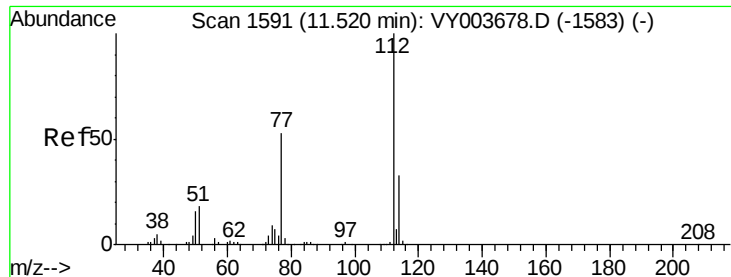


#44

Toluene
 Concen: 33.651 ug/L
 RT: 10.25 min Scan# 1382
 Delta R.T. 0.00 min
 Lab File: VY003683.D
 Acq: 08 Dec 2020 18:15

Tgt Ion: 91 Resp: 241152
 Ion Ratio Lower Upper
 91 100
 92 58.9 39.8 73.8





#52

Chlorobenzene

Concen: 22.913 ug/L

RT: 11.52 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

Instrument :

MSVOA_Y

ClientSampleId :

GB1F8MSD

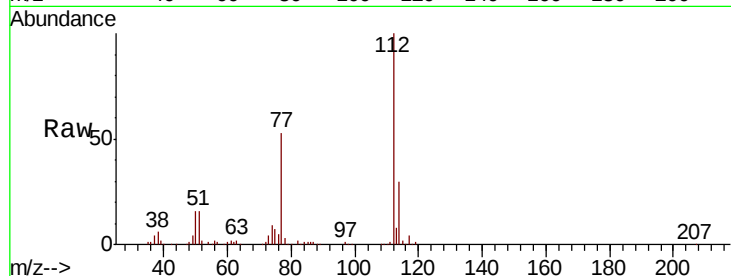
Tot Ion:112 Resp: 108062

Ion Ratio Lower Upper

112 100

77 52.7 44.4 66.6

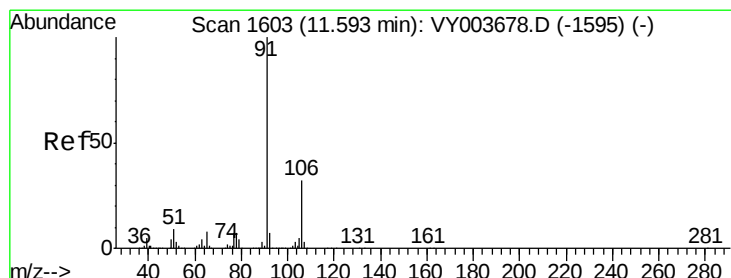
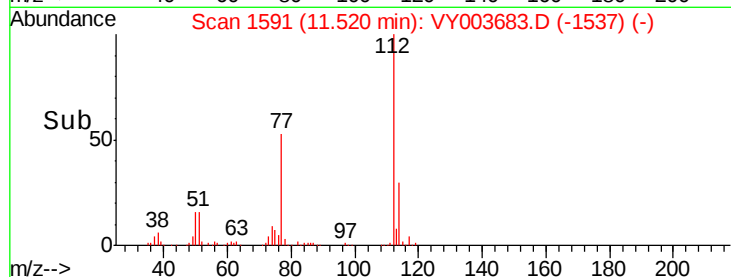
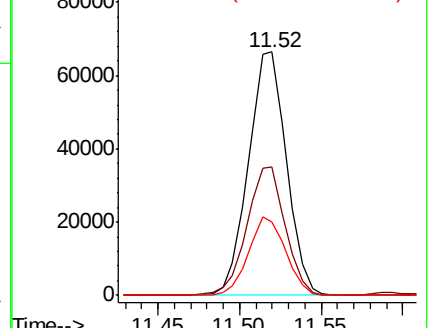
114 30.3 22.4 41.6



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 1.961 ug/L

RT: 11.59 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VY003683.D

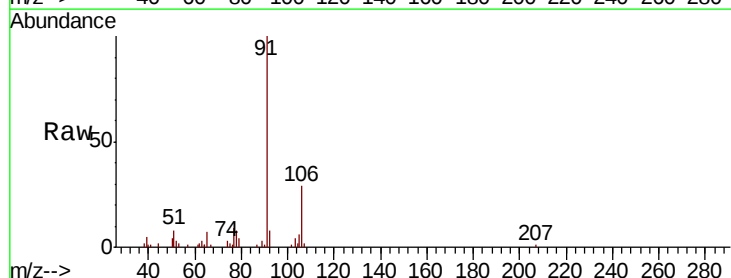
Acq: 08 Dec 2020 18:15

Tgt Ion: 91 Resp: 15338

Ion Ratio Lower Upper

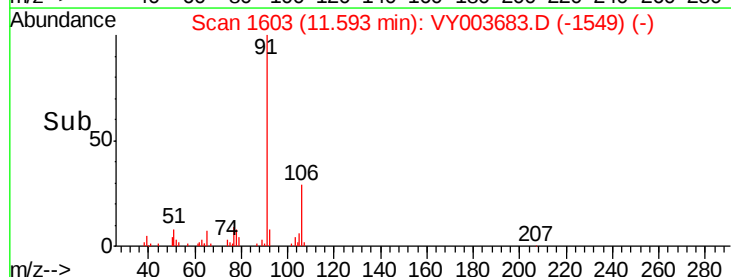
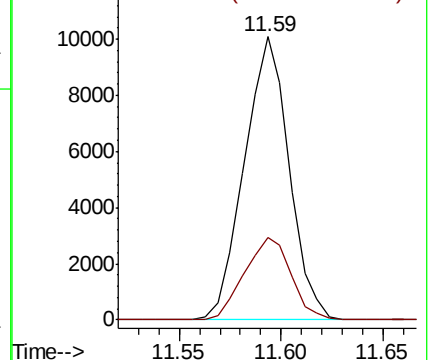
91 100

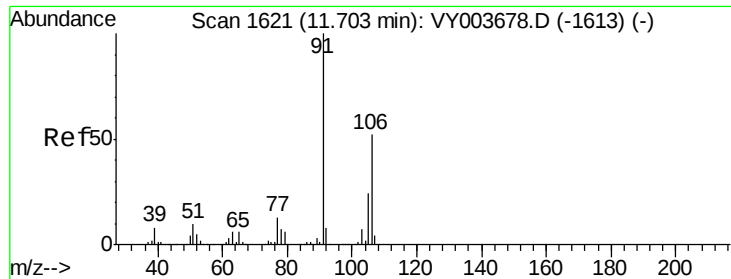
106 29.3 23.3 43.3



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 0.632 ug/L

RT: 11.70 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

Instrument :

MSVOA_Y

ClientSampleId :

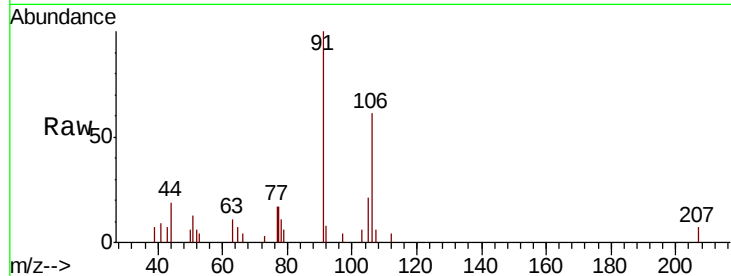
GB1F8MSD

Tot Ion:106 Resp: 1907

Ion Ratio Lower Upper

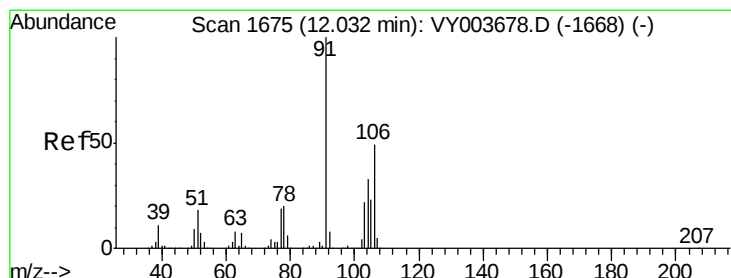
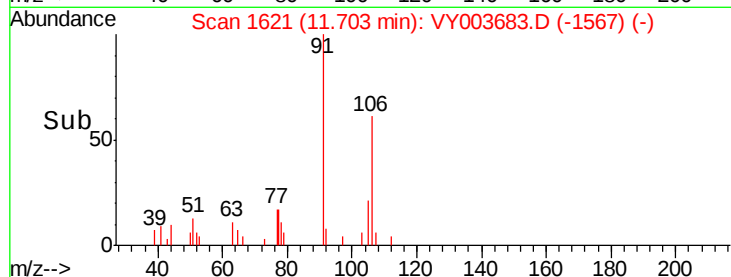
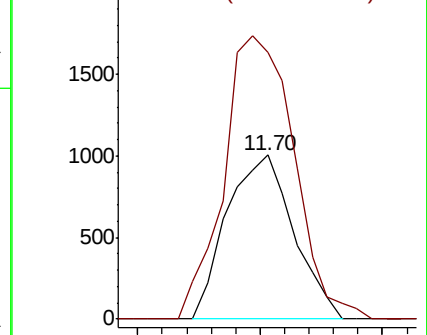
106 100

91 162.8 131.3 243.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#55

o-xylene

Concen: 0.274 ug/L

RT: 12.02 min Scan# 1673

Delta R.T. -0.01 min

Lab File: VY003683.D

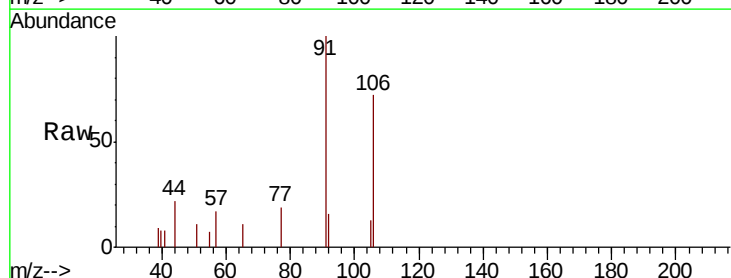
Acq: 08 Dec 2020 18:15

Tgt Ion:106 Resp: 794

Ion Ratio Lower Upper

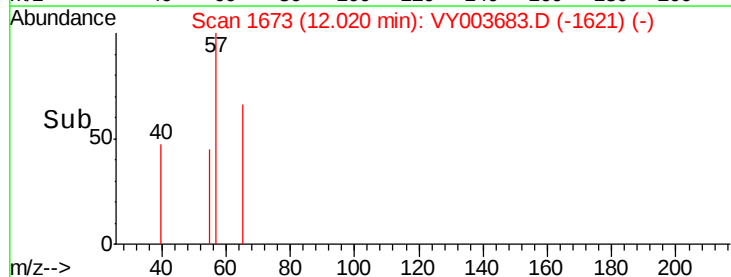
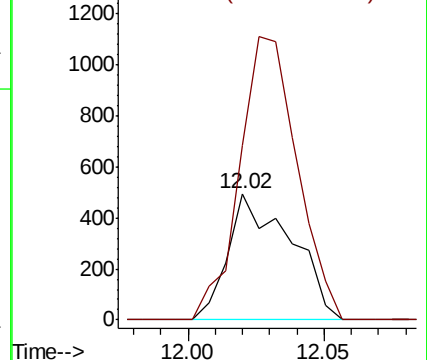
106 100

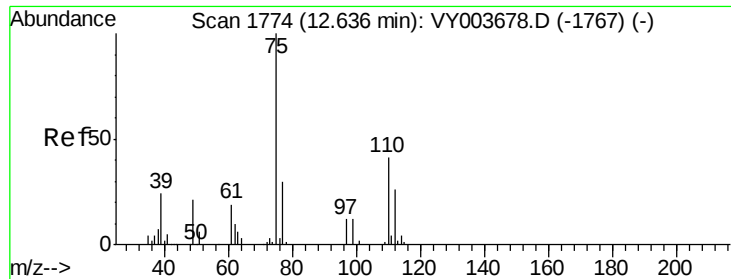
91 138.9 141.7 263.3#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#59

1,2,3-Trichloropropane

Concen: 1.972 ug/L

RT: 13.43 min Scan# 1904

Delta R.T. 0.79 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

Instrument :

MSVOA_Y

ClientSampleId :

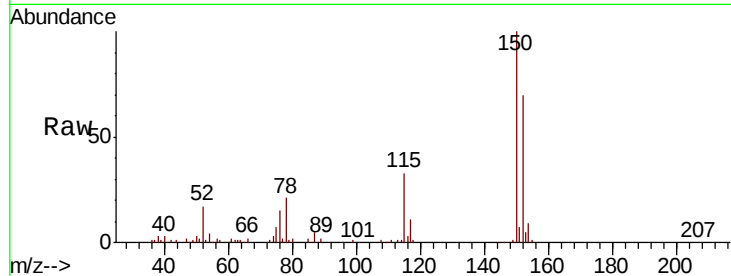
GB1F8MSD

Tot Ion: 75 Resp: 2777

Ion Ratio Lower Upper

75 100

77 34.2 25.9 38.9



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

Ion 77.00 (76.70 to 77.70): VY003678.D (-1767) (-)

13.43

1500

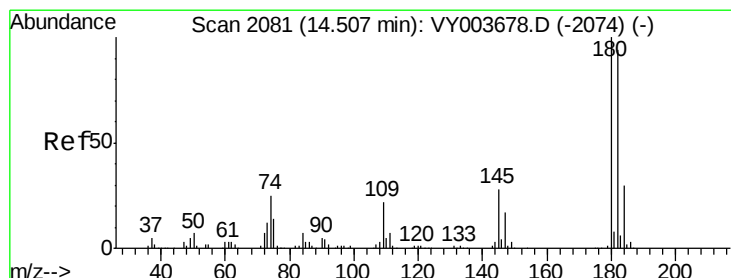
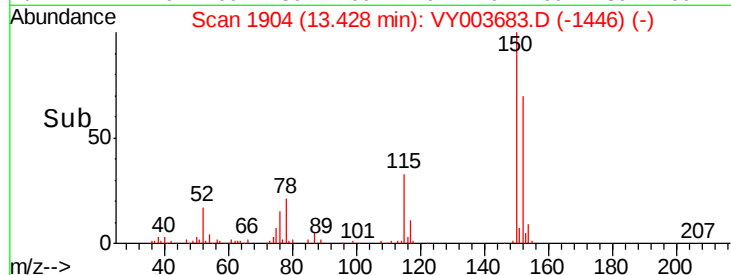
1000

500

0

Time-->

13.40 13.45



#67

1,3,5-Trichlorobenzene

Concen: 0.416 ug/L

RT: 14.50 min Scan# 2080

Delta R.T. -0.01 min

Lab File: VY003683.D

Acq: 08 Dec 2020 18:15

Tgt Ion: 180 Resp: 422

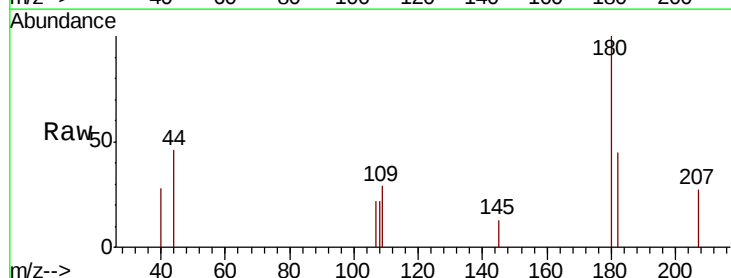
Ion Ratio Lower Upper

180 100

182 79.4 76.0 114.0

184 0.0 24.2 36.2#

145 0.0 22.2 33.2#



Abundance Ion 180.00 (179.70 to 180.70): VY003678.D (-2074) (-)

Ion 182.00 (181.70 to 182.70): VY003678.D (-2074) (-)

Ion 184.00 (183.70 to 184.70): VY003678.D (-2074) (-)

Ion 145.00 (144.70 to 145.70): VY003678.D (-2074) (-)

14.50

600

500

400

300

200

100

0

Time-->

14.48 14.50 14.52

