

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121120\
 Data File : VY003730.D
 Acq On : 11 Dec 2020 16:27
 Operator : SY/MD
 Sample : L5063-01
 Misc : 4.47G/10ML/MSVOA Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD5

Quant Time: Dec 12 01:41:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM120420S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 11 10:03:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.69	114	194125	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	128416	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	31464	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	59018	21.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.00%
7) Chloroethane-d5	2.77	69	53275	25.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.88%
10) 1,1-Dichloroethene-d2	3.86	63	91209	17.65	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	70.60%
20) 2-Butanone-d5	6.89	46	52705	53.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.70%
24) Chloroform-d	7.49	84	134506	26.93	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.72%
26) 1,2-Dichloroethane-d4	8.15	65	77924	27.72	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	110.88%
29) Benzene-d6	8.12	84	271325	36.49	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	145.96%#
33) 1,2-Dichloropropane-d6	9.12	67	81766	37.17	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	148.68%#
37) Toluene-d8	10.18	98	187533	28.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.56%
38) trans-1,3-Dichloropropene-	10.44	79	35887	34.13	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	136.52%#
39) 2-Hexanone-d5	10.79	63	41707	75.67	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	151.34%#
48) 1,1,2,2-Tetrachloroethane-	12.56	84	56465	28.81	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	115.24%
61) 1,2-Dichlorobenzene-d4	13.72	152	29252	25.59	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.36%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
11) 1,1,2-Trichloro-1,2,2-trif	3.86	101	608	0.247	ug/L #	17
13) Acetone	3.96	43	1815	2.530	ug/L	90
14) Carbon disulfide	4.21	76	1954	0.252	ug/L	97
16) Methylene chloride	4.72	84	4236	1.243	ug/L	91
40) 1,2-Dichloropropane	9.12	63	8766	4.758	ug/L #	86
42) cis-1,3-Dichloropropene	9.89	75	2811	0.969	ug/L #	83
44) Toluene	10.25	91	12170	1.571	ug/L	99
45) trans-1,3-Dichloropropene	10.44	75	2083	0.779	ug/L #	81
53) Ethylbenzene	11.59	91	1863	0.220	ug/L	93
54) m,p-Xylene	11.70	106	2865	0.878	ug/L	82
55) o-xylene	12.03	106	3530	1.128	ug/L	78
57) Isopropylbenzene	12.33	105	4491	0.549	ug/L #	83
66) 1,2-Dibromo-3-chloropropan	14.30	75	1287	8.048	ug/L #	1
67) 1,3,5-Trichlorobenzene	14.51	180	364	0.275	ug/L #	1
68) 1,2,4-trichlorobenzene	15.00	180	1173	1.039	ug/L #	1
69) Naphthalene	15.23	128	75766	32.011	ug/L	95
70) 1,2,3-Trichlorobenzene	15.43	180	915	0.888	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Fri Dec 11 10:03:37 2020
Response via : Initial Calibration

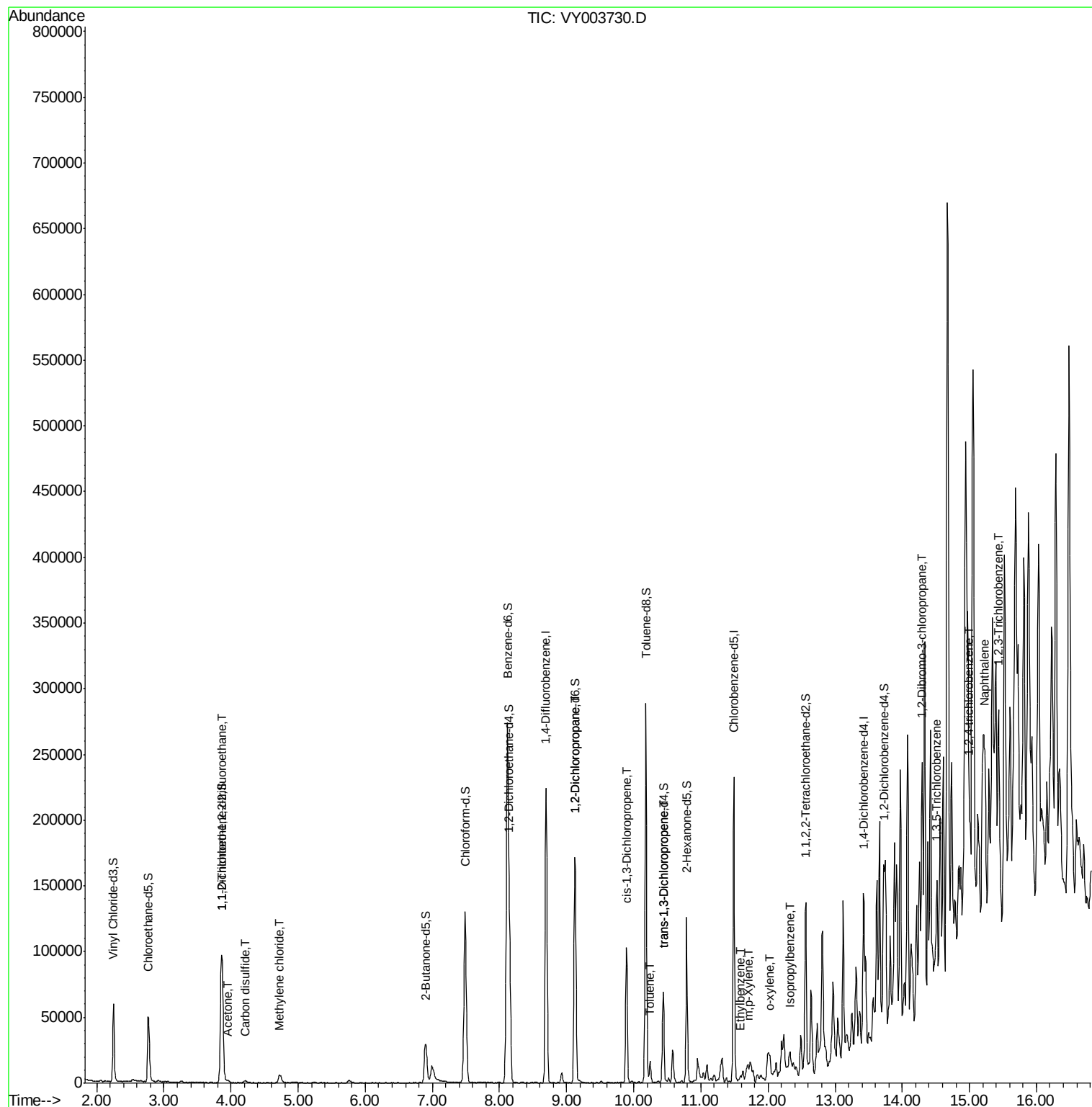
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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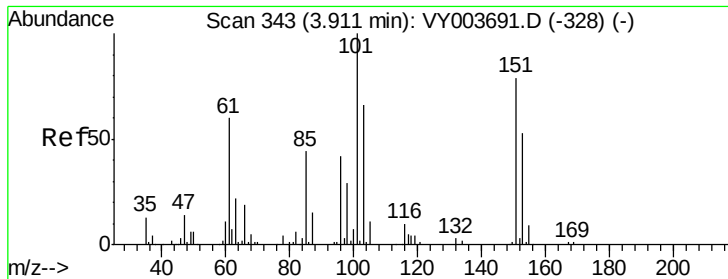
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Fri Dec 11 10:03:37 2020
Response via : Initial Calibration





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.247 ug/L

RT: 3.86 min Scan# 335

Delta R.T. -0.05 min

Lab File: VY003730.D

Acq: 11 Dec 2020 16:27

Instrument :

MSVOA_Y

ClientSampled :

C0AD5

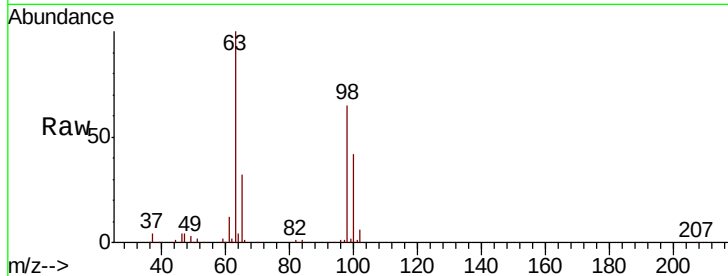
Tot Ion:101 Resp: 608

Ion Ratio Lower Upper

101 100

85 0.0 33.9 50.9#

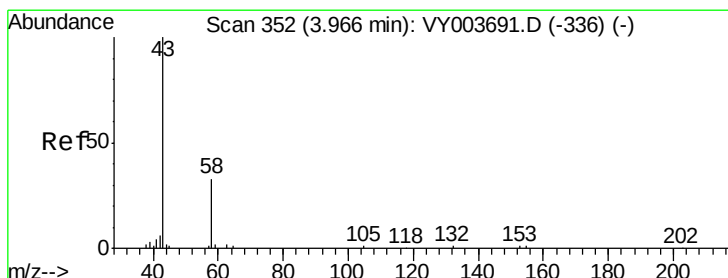
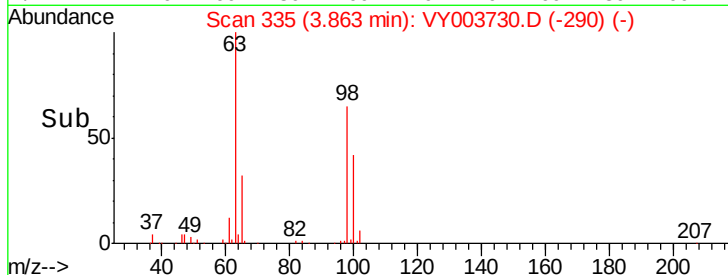
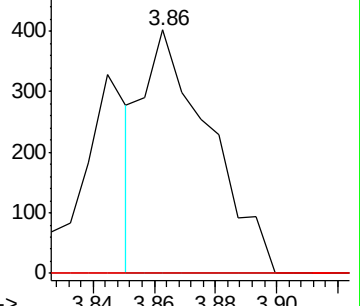
151 0.0 65.0 97.4#



Abundance Ion 101.00 (100.70 to 101.70): VY003730.D (-290) (-)

Ion 85.00 (84.70 to 85.70): VY003730.D (-290) (-)

Ion 151.00 (150.70 to 151.70): VY003730.D (-290) (-)



#13

Acetone

Concen: 2.530 ug/L

RT: 3.96 min Scan# 351

Delta R.T. 0.00 min

Lab File: VY003730.D

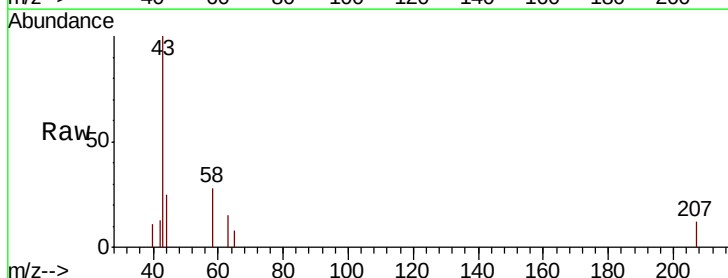
Acq: 11 Dec 2020 16:27

Tgt Ion: 43 Resp: 1815

Ion Ratio Lower Upper

43 100

58 40.3 0.0 68.8



Abundance Ion 43.00 (42.70 to 43.70): VY003730.D (-297) (-)

Ion 58.00 (57.70 to 58.70): VY003730.D (-297) (-)

Ion 207.00 (206.70 to 207.70): VY003730.D (-297) (-)

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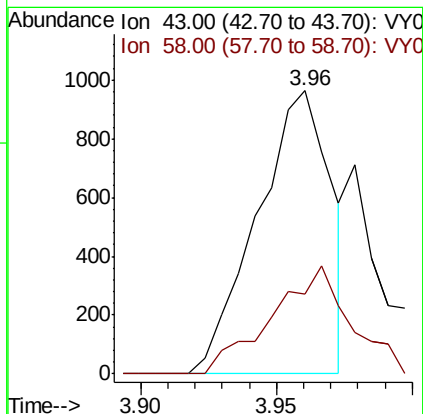
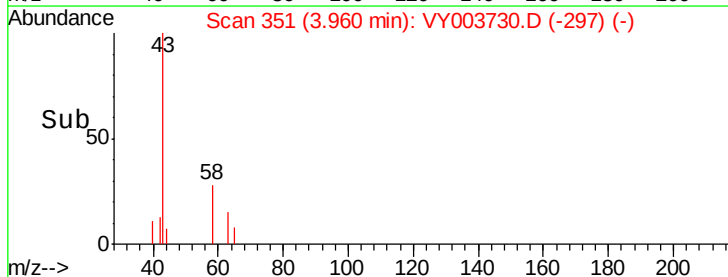
Ion 207.00 (206.70 to 207.70): VY003730.D (-297) (-)

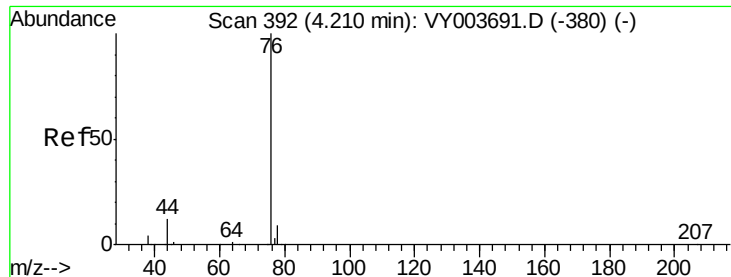
Ion 207.00 (206.70 to 207.70): VY003730.D (-297) (-)

Ion 207.00 (206.70 to 207.70): VY003730.D (-297) (-)

Ion 207.00 (206.70 to 207.70): VY003730.D (-297) (-)

Ion 207.00 (206.70 to 207.70): VY003730.D (-297) (-)





#14

Carbon disulfide

Concen: 0.252 ug/L

RT: 4.21 min Scan# 392

Delta R.T. 0.00 min

Lab File: VY003730.D

Acq: 11 Dec 2020 16:27

Instrument :

MSVOA_Y

ClientSampleId :

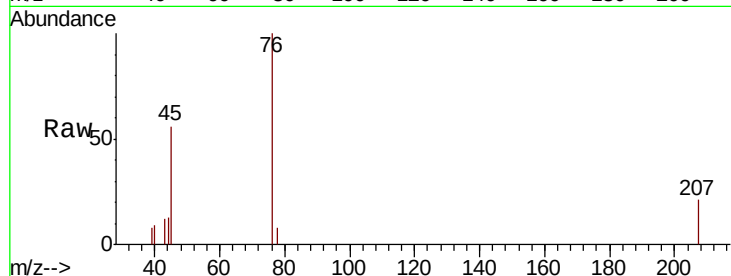
C0AD5

Tot Ion: 76 Resp: 1954

Ion Ratio Lower Upper

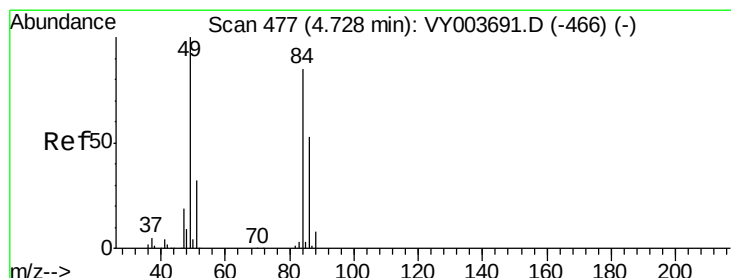
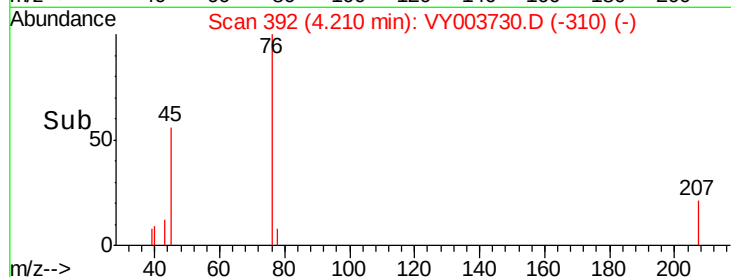
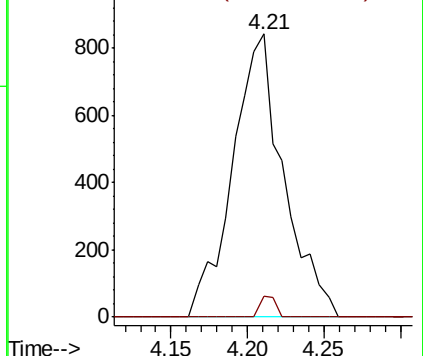
76 100

78 7.6 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VY0

Ion 78.00 (77.70 to 78.70): VY0



#16

Methylene chloride

Concen: 1.243 ug/L

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VY003730.D

Acq: 11 Dec 2020 16:27

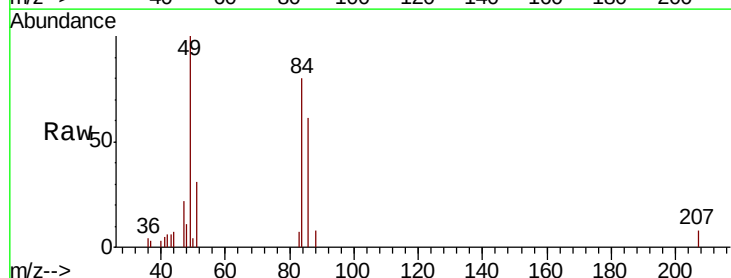
Tgt Ion: 84 Resp: 4236

Ion Ratio Lower Upper

84 100

49 125.5 83.7 155.4

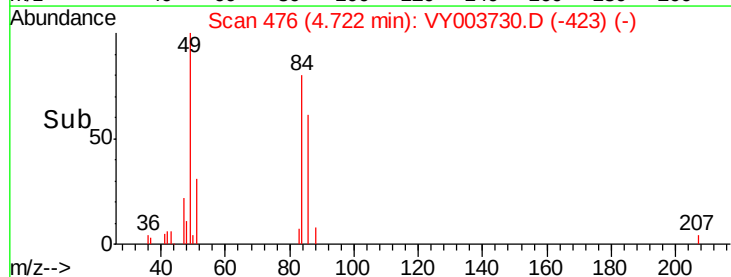
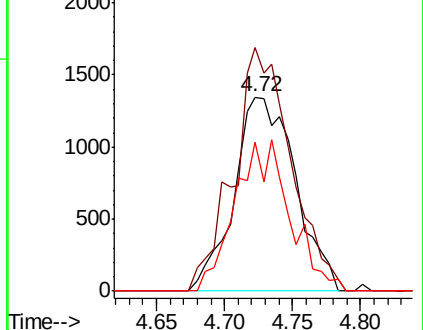
86 76.8 45.0 83.6

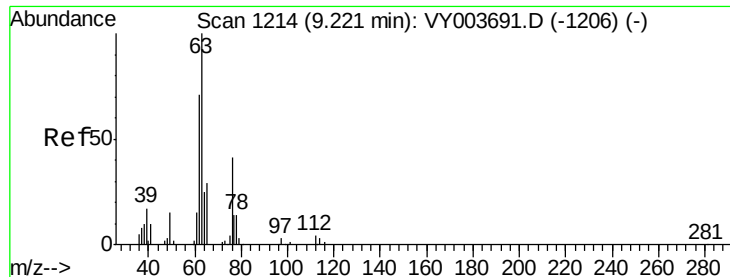


Abundance Ion 84.00 (83.70 to 84.70): VY0

Ion 49.00 (48.70 to 49.70): VY0

Ion 86.00 (85.70 to 86.70): VY0





#40

1,2-Dichloropropane

Concen: 4.758 ug/L

RT: 9.12 min Scan# 1198

Delta R.T. -0.10 min

Lab File: VY003730.D

Acq: 11 Dec 2020 16:27

Instrument :

MSVOA_Y

ClientSampleId :

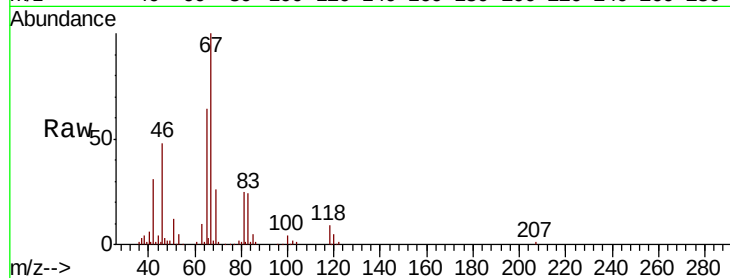
C0AD5

Tot Ion: 63 Resp: 8766

Ion Ratio Lower Upper

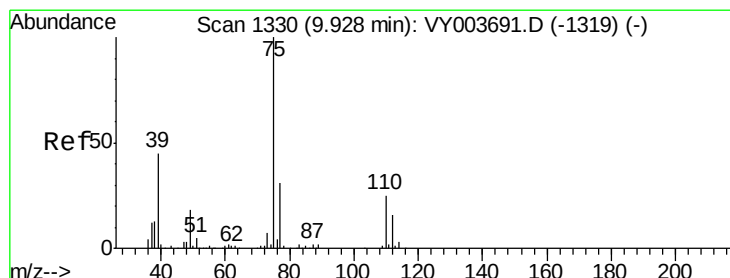
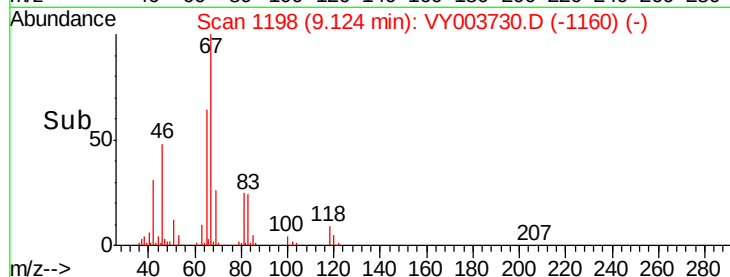
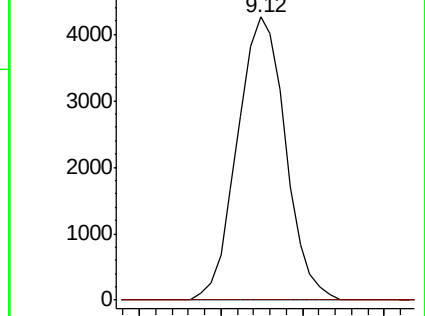
63 100

112 0.0 3.7 5.5#



Abundance Ion 63.00 (62.70 to 63.70): VY0

Ion 112.00 (111.70 to 112.70): VY0



#42

cis-1,3-Dichloropropene

Concen: 0.969 ug/L

RT: 9.89 min Scan# 1323

Delta R.T. -0.04 min

Lab File: VY003730.D

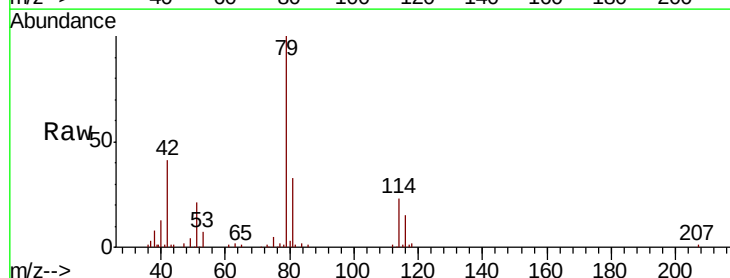
Acq: 11 Dec 2020 16:27

Tgt Ion: 75 Resp: 2811

Ion Ratio Lower Upper

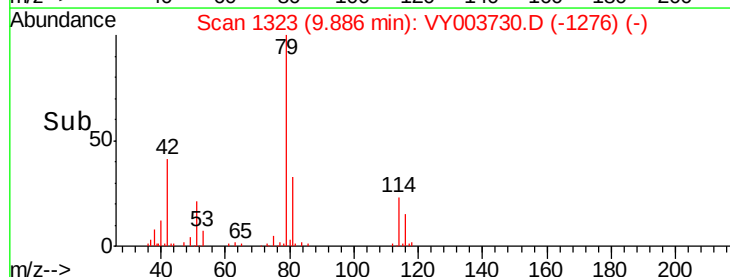
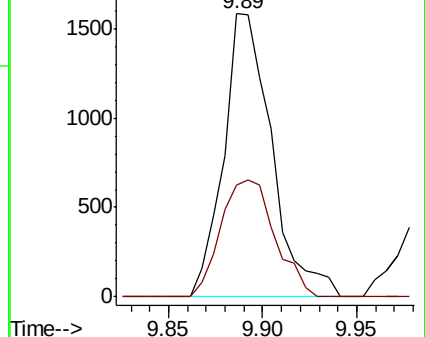
75 100

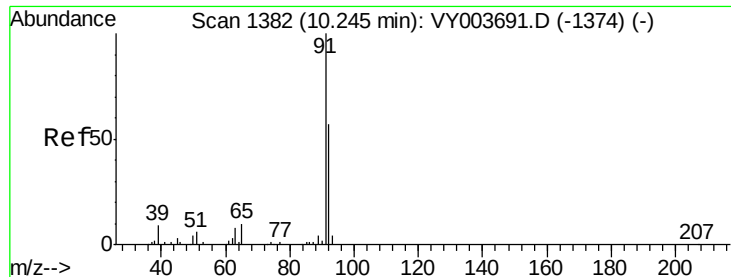
77 39.7 21.3 39.6#



Abundance Ion 75.00 (74.70 to 75.70): VY0

Ion 77.00 (76.70 to 77.70): VY0





#44

Toluene

Concen: 1.571 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VY003730.D

Acq: 11 Dec 2020 16:27

Instrument :

MSVOA_Y

ClientSampled :

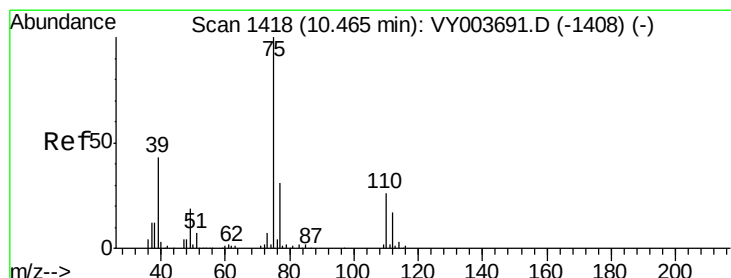
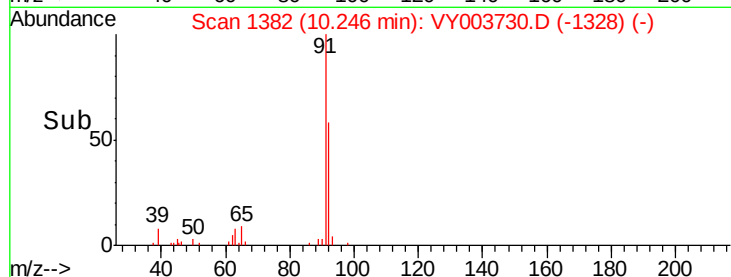
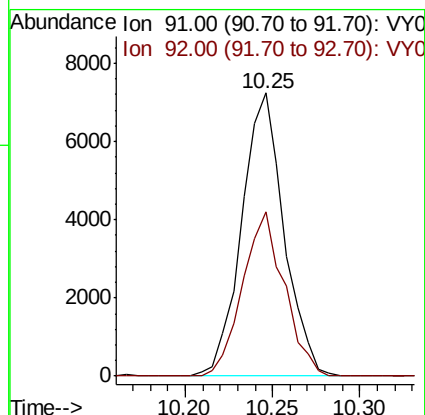
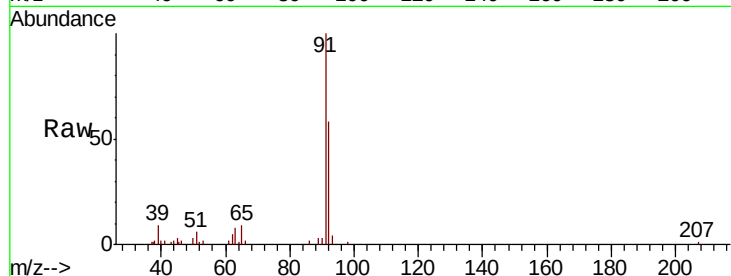
C0AD5

Tot Ion: 91 Resp: 12170

Ion Ratio Lower Upper

91 100

92 57.8 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 0.779 ug/L

RT: 10.44 min Scan# 1414

Delta R.T. -0.03 min

Lab File: VY003730.D

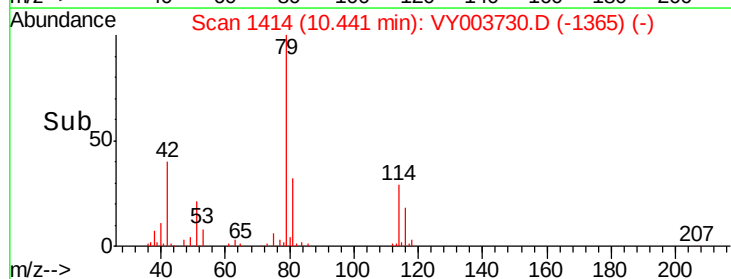
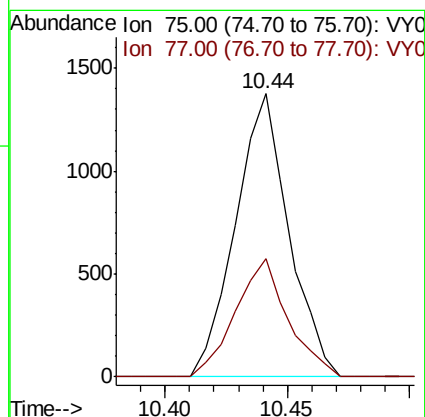
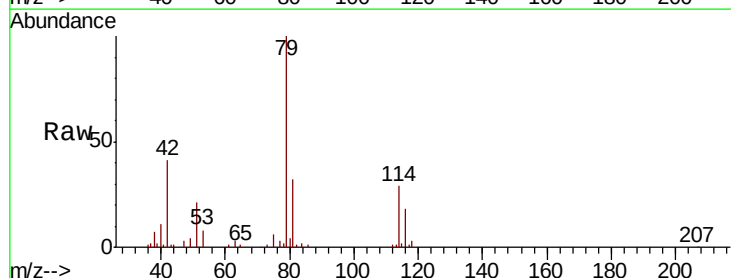
Acq: 11 Dec 2020 16:27

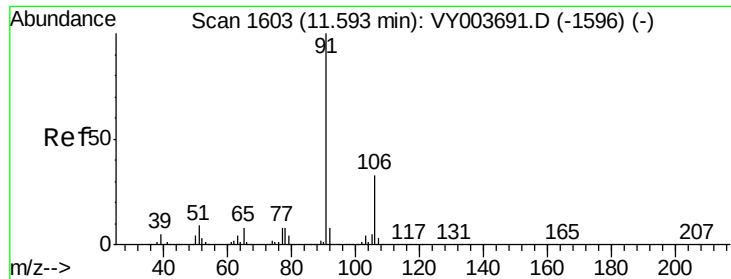
Tgt Ion: 75 Resp: 2083

Ion Ratio Lower Upper

75 100

77 41.7 22.0 40.8#

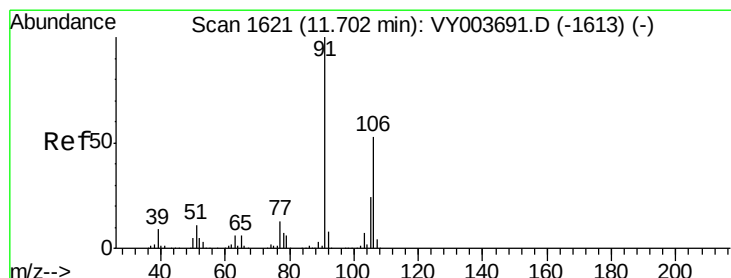
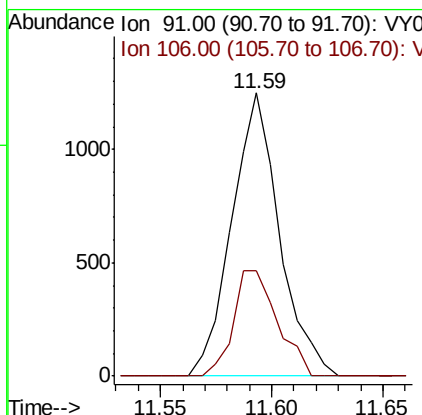
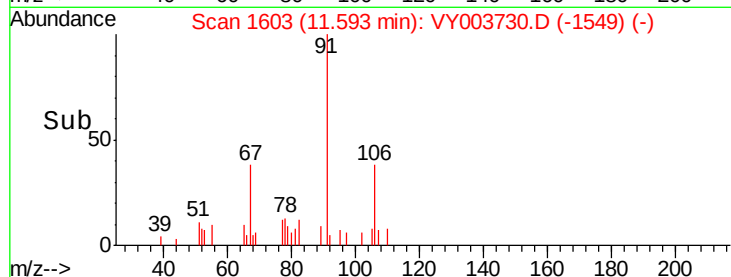
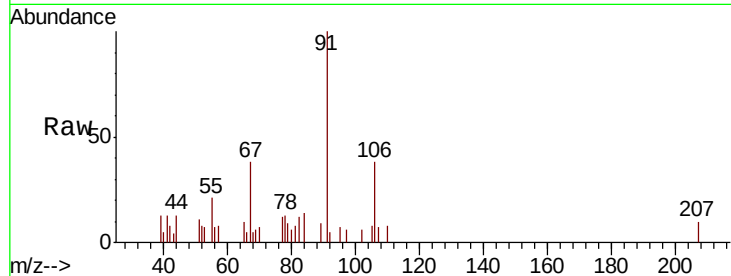




#53
Ethylbenzene
Concen: 0.220 ug/L
RT: 11.59 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VY003730.D
Acq: 11 Dec 2020 16:27

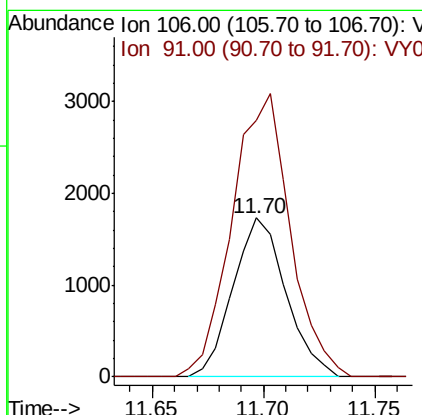
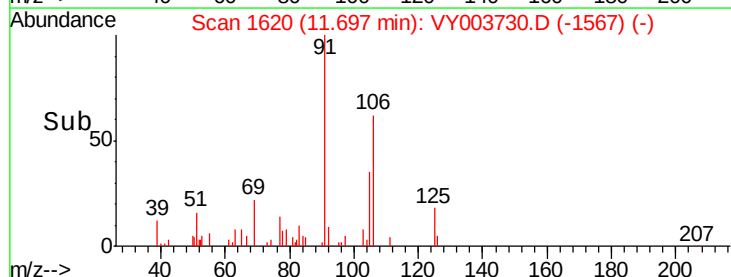
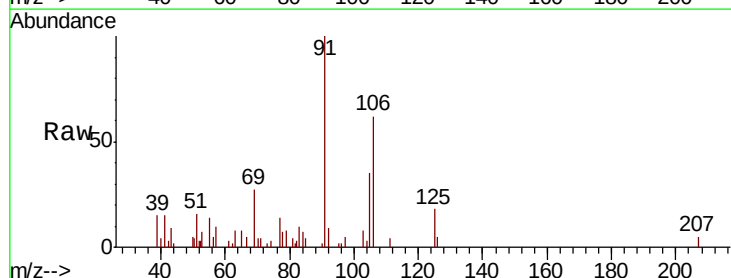
Instrument :
MSVOA_Y
ClientSampled :
C0AD5

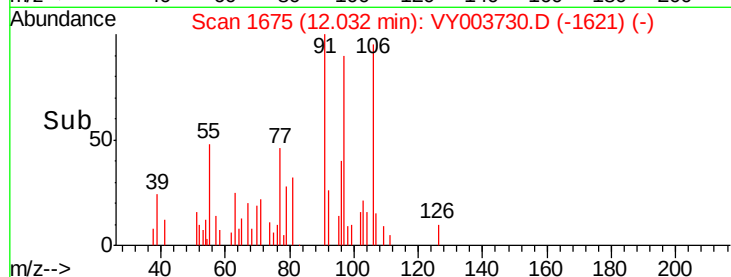
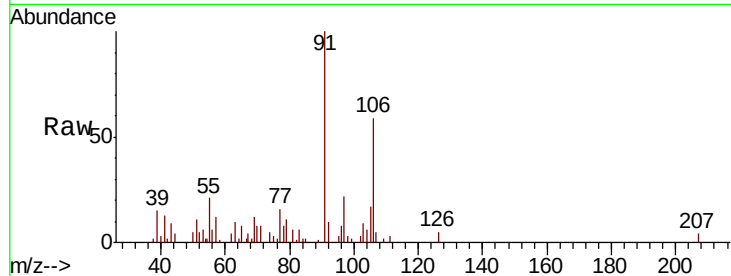
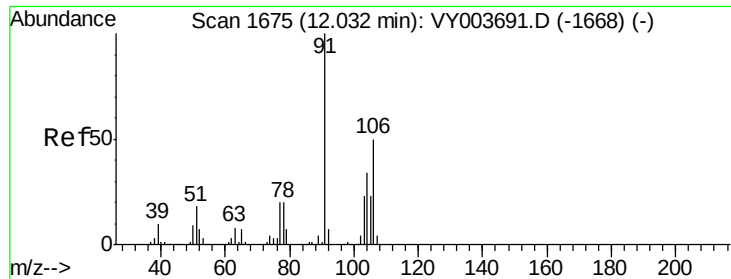
Tot Ion: 91 Resp: 1863
Ion Ratio Lower Upper
91 100
106 37.5 23.3 43.3



#54
m,p-Xylene
Concen: 0.878 ug/L
RT: 11.70 min Scan# 1620
Delta R.T. -0.01 min
Lab File: VY003730.D
Acq: 11 Dec 2020 16:27

Tgt Ion: 106 Resp: 2865
Ion Ratio Lower Upper
106 100
91 161.0 131.3 243.9

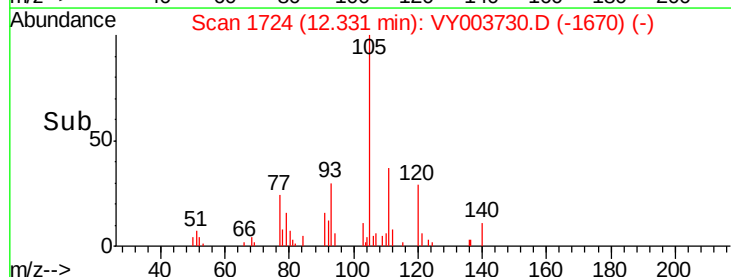
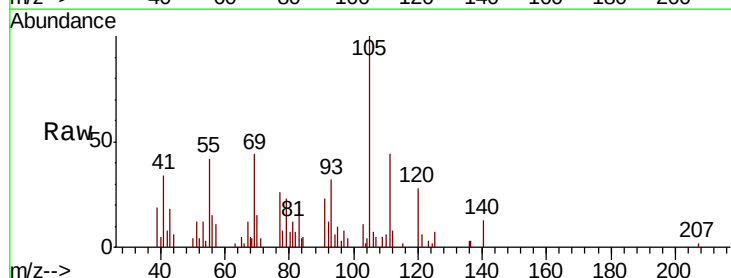
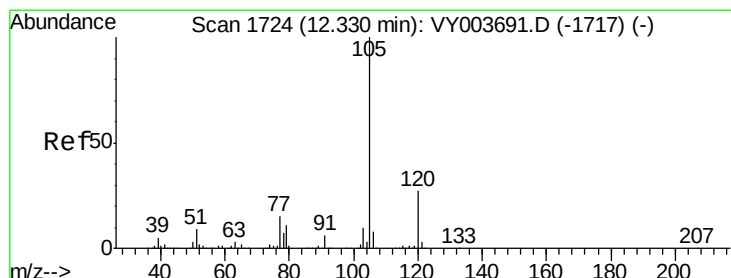
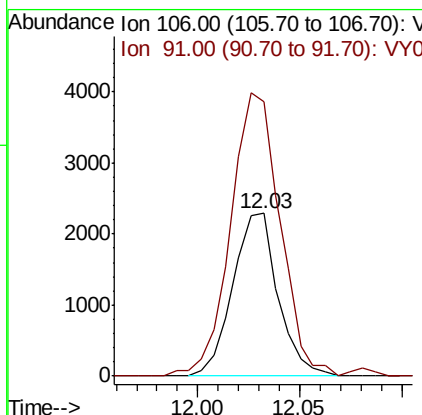




#55
o-xylene
Concen: 1.128 ug/L
RT: 12.03 min Scan# 1675
Delta R.T. 0.00 min
Lab File: VY003730.D
Acq: 11 Dec 2020 16:27

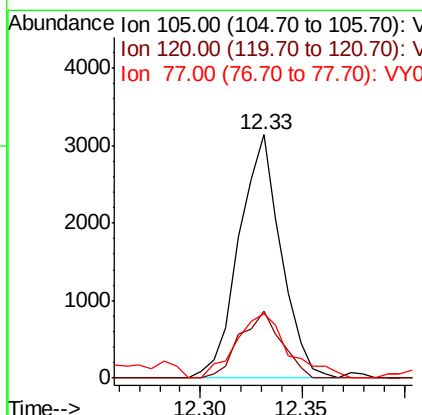
Instrument :
MSVOA_Y
ClientSampled :
C0AD5

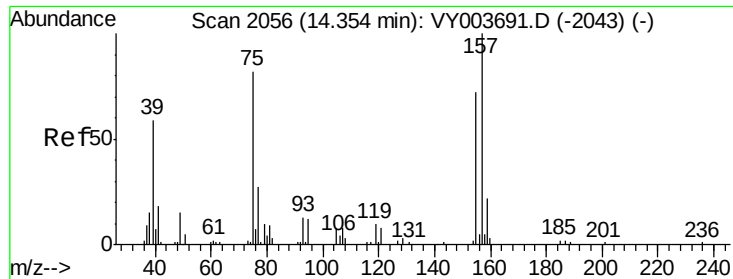
Tot Ion:106 Resp: 3530
Ion Ratio Lower Upper
106 100
91 168.2 141.7 263.3



#57
Isopropylbenzene
Concen: 0.549 ug/L
RT: 12.33 min Scan# 1724
Delta R.T. 0.00 min
Lab File: VY003730.D
Acq: 11 Dec 2020 16:27

Tgt Ion:105 Resp: 4491
Ion Ratio Lower Upper
105 100
120 27.1 22.3 33.5
77 33.5 11.9 17.9#

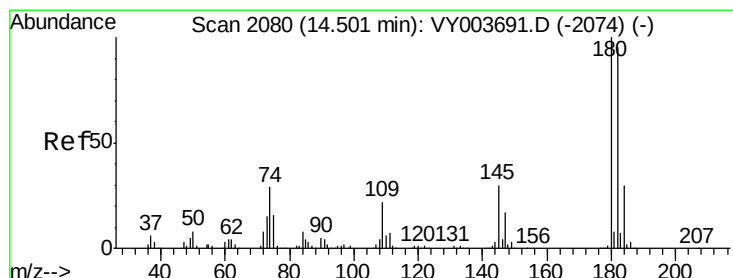
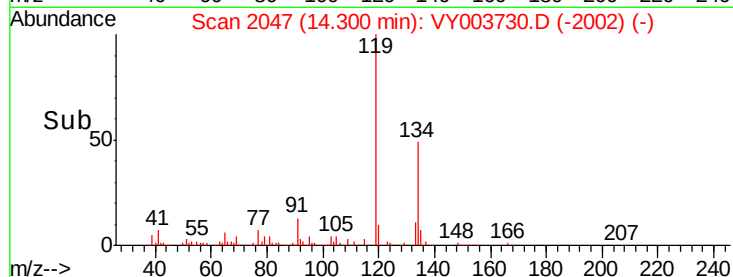
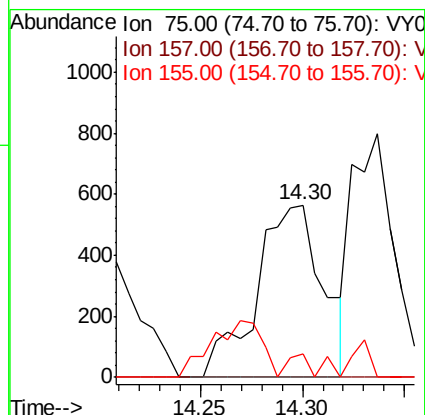
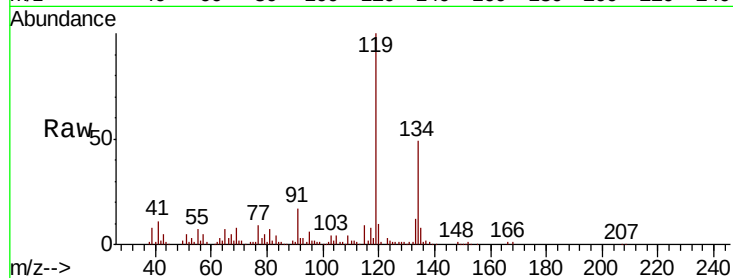




#66
 1,2-Dibromo-3-chloropropane
 Concen: 8.048 ug/L
 RT: 14.30 min Scan# 2047
 Delta R.T. -0.05 min
 Lab File: VY003730.D
 Acq: 11 Dec 2020 16:27

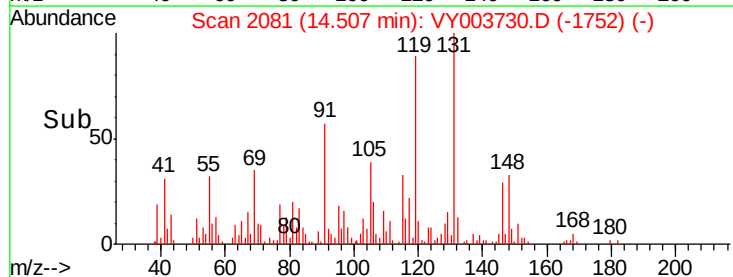
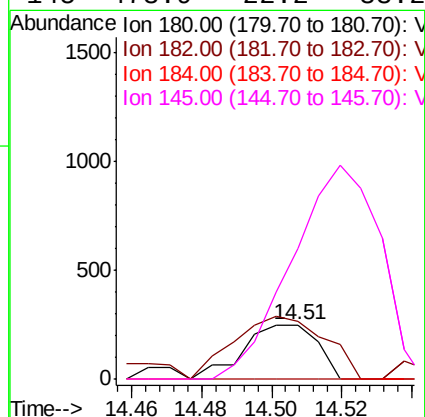
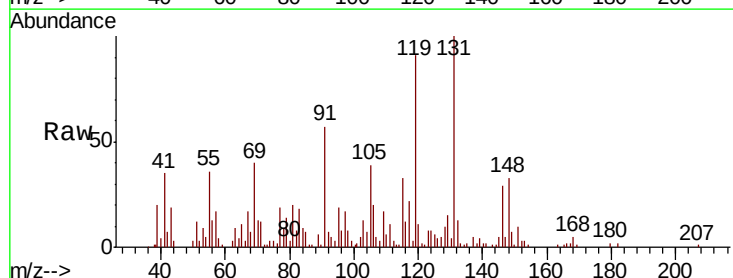
Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD5

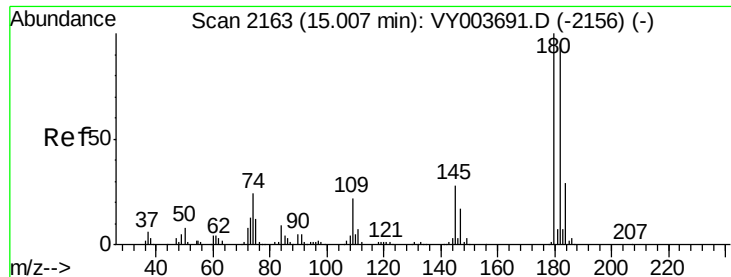
Tot Ion: 75 Resp: 1287
 Ion Ratio Lower Upper
 75 100
 157 0.0 101.3 151.9#
 155 13.8 76.2 114.4#



#67
 1,3,5-Trichlorobenzene
 Concen: 0.275 ug/L
 RT: 14.51 min Scan# 2081
 Delta R.T. 0.01 min
 Lab File: VY003730.D
 Acq: 11 Dec 2020 16:27

Tgt Ion: 180 Resp: 364
 Ion Ratio Lower Upper
 180 100
 182 143.1 76.0 114.0#
 184 0.0 24.2 36.2#
 145 473.9 22.2 33.2#

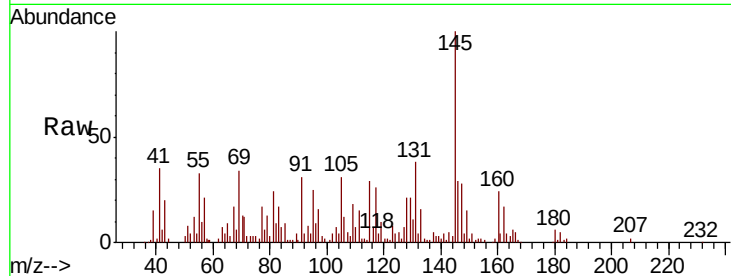




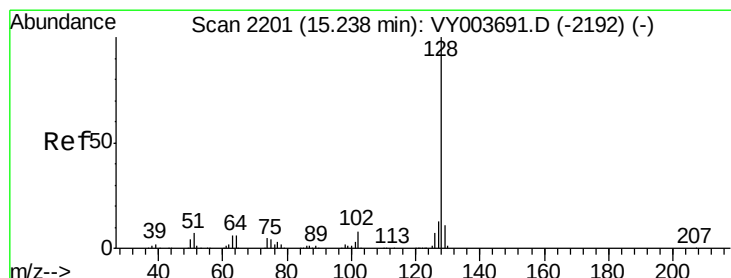
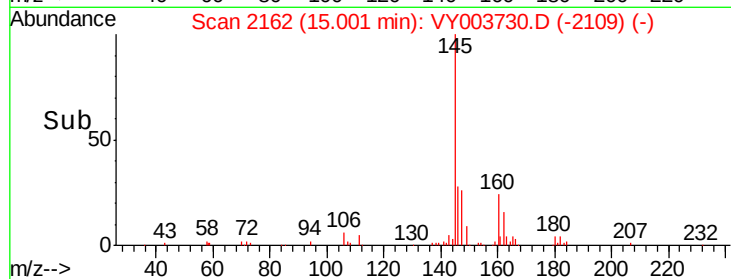
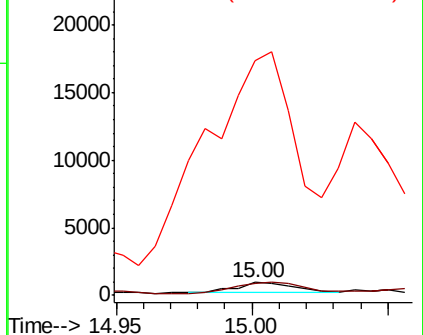
#68
 1,2,4-trichlorobenzene
 Concen: 1.039 ug/L
 RT: 15.00 min Scan# 2162
 Delta R.T. -0.01 min
 Lab File: VY003730.D
 Acq: 11 Dec 2020 16:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD5

Tot Ion:180 Resp: 1173
 Ion Ratio Lower Upper
 180 100
 182 119.3 76.5 114.7#
 145 3633.4 22.2 33.4#

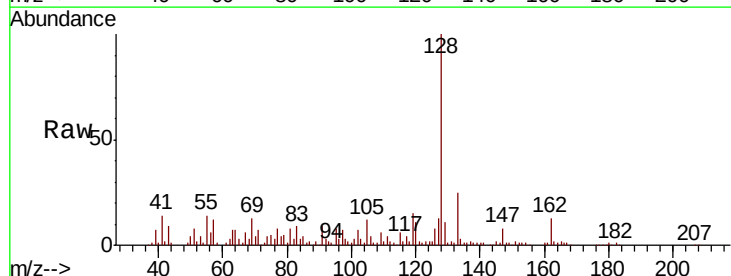


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

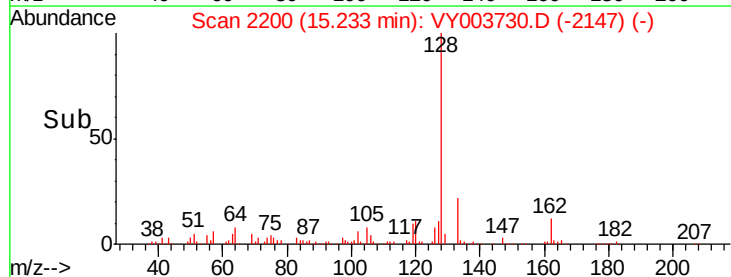
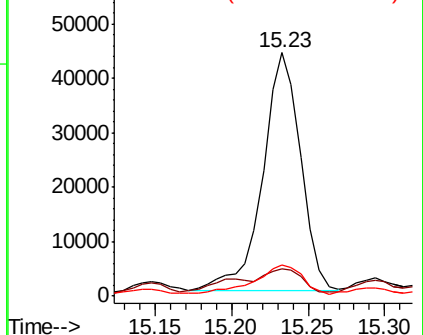


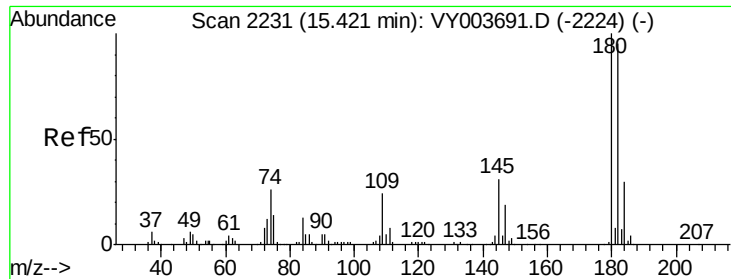
#69
 Naphthalene
 Concen: 32.011 ug/L
 RT: 15.23 min Scan# 2200
 Delta R.T. -0.01 min
 Lab File: VY003730.D
 Acq: 11 Dec 2020 16:27

Tgt Ion:128 Resp: 75766
 Ion Ratio Lower Upper
 128 100
 129 9.1 8.7 13.1
 127 15.0 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

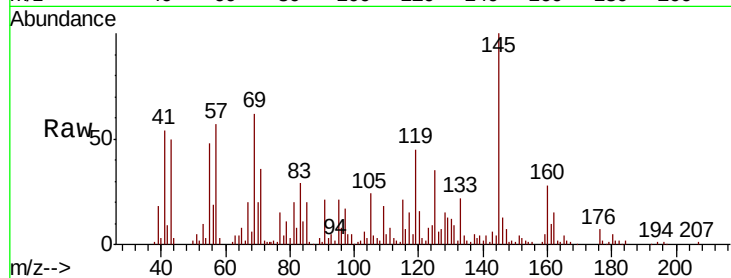




#70
 1,2,3-Trichlorobenzene
 Concen: 0.888 ug/L
 RT: 15.43 min Scan# 2233
 Delta R.T. 0.01 min
 Lab File: VY003730.D
 Acq: 11 Dec 2020 16:27

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD5

Tot Ion:180 Resp: 915
 Ion Ratio Lower Upper
 180 100
 182 46.3 76.9 115.3#
 145 4700.0 24.2 36.4#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

