

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY121420\
 Data File : VY003753.D
 Acq On : 14 Dec 2020 17:17
 Operator : SY/MD
 Sample : L5063-04RE
 Misc : 4.36G/10ML/MSVOA Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD6RE

Quant Time: Dec 15 03:41:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM121420S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 15 03:40:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	282354	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	224280	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	71176	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.25	65	109481	28.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	113.64%
7) Chloroethane-d5	2.77	69	81034	28.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	112.84%
10) 1,1-Dichloroethene-d2	3.86	63	165637	20.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	81.84%
20) 2-Butanone-d5	6.90	46	74317	44.26	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.52%
24) Chloroform-d	7.49	84	194279	26.49	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.96%
26) 1,2-Dichloroethane-d4	8.15	65	108386	26.14	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.56%
29) Benzene-d6	8.12	84	406683	31.33	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	125.32%
33) 1,2-Dichloropropane-d6	9.12	67	125553	31.06	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	124.24%#
37) Toluene-d8	10.18	98	335355	28.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	114.16%
38) trans-1,3-Dichloropropene-	10.44	79	56382	28.61	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	114.44%
39) 2-Hexanone-d5	10.79	63	55981	50.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.44%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	86209	24.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	97.60%
61) 1,2-Dichlorobenzene-d4	13.72	152	71353	27.91	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	111.64%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.12	50	1625	0.369	ug/L	93
11) 1,1,2-Trichloro-1,2,2-trif	3.86	101	1092	0.266	ug/L #	19
13) Acetone	3.96	43	6869	5.933	ug/L	85
16) Methylene chloride	4.73	84	8129	1.604	ug/L	87
21) 2-Butanone	7.00	43	2417	1.201	ug/L	81
42) cis-1,3-Dichloropropene	9.90	75	4208	0.716	ug/L #	54
44) Toluene	10.25	91	7904	0.521	ug/L	98
46) 1,1,2-Trichloroethane	10.62	97	1664	0.556	ug/L #	21
53) Ethylbenzene	11.59	91	4141	0.250	ug/L	95
54) m,p-Xylene	11.70	106	3010	0.471	ug/L	87
55) o-xylene	12.03	106	3188	0.532	ug/L	99
57) Isopropylbenzene	12.33	105	9873	0.617	ug/L #	96
59) 1,2,3-Trichloropropane	13.42	75	9272	3.141	ug/L	93
66) 1,2-Dibromo-3-chloropropan	14.33	75	8562	20.506	ug/L #	1
68) 1,2,4-trichlorobenzene	15.01	180	1494	0.547	ug/L #	1
69) Naphthalene	15.23	128	338475	54.283	ug/L	99
70) 1,2,3-Trichlorobenzene	15.43	180	1272	0.512	ug/L #	1

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QLast Update : Tue Dec 15 03:40:13 2020
Response via : Initial Calibration

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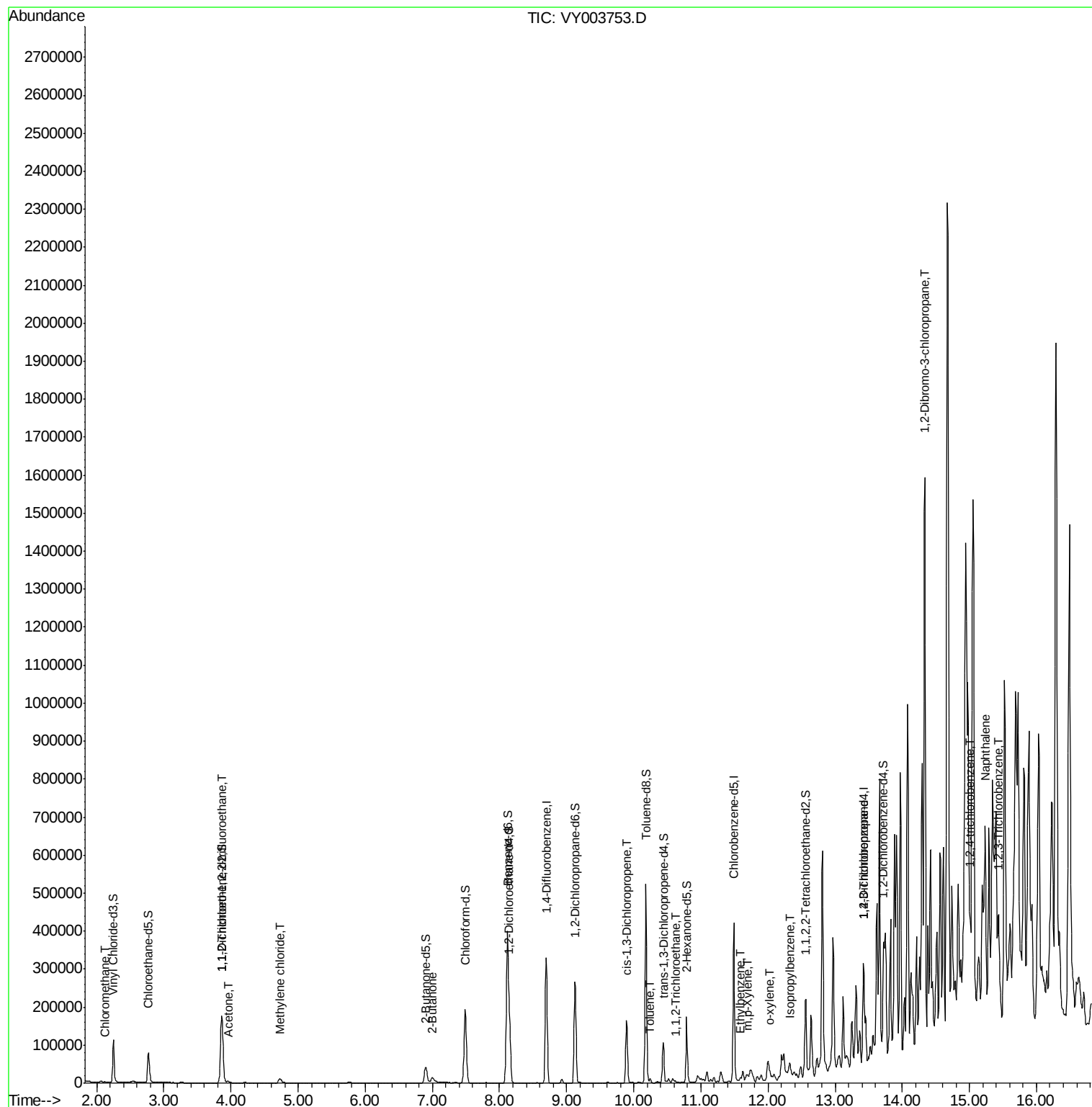
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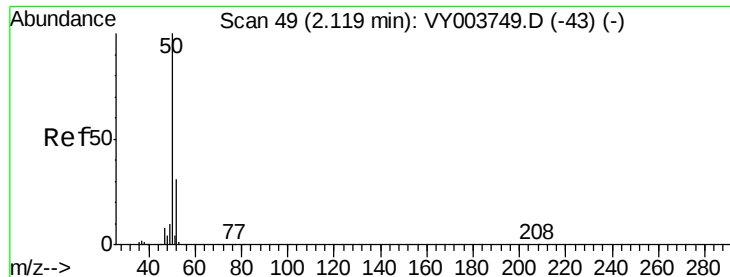
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.369 ug/L

RT: 2.12 min Scan# 49

Delta R.T. -0.00 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

Instrument :

MSVOA_Y

ClientSampled :

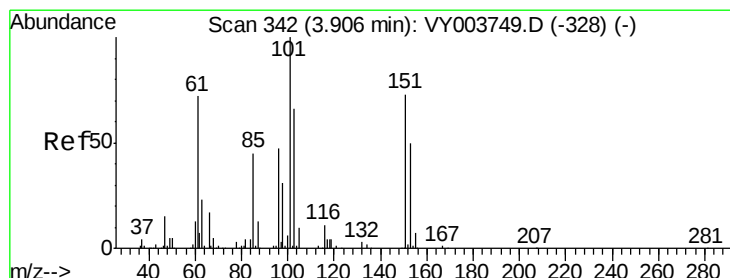
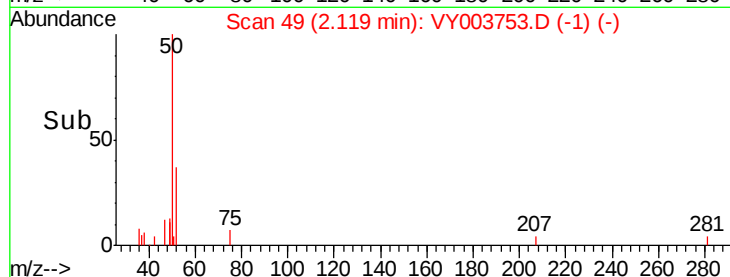
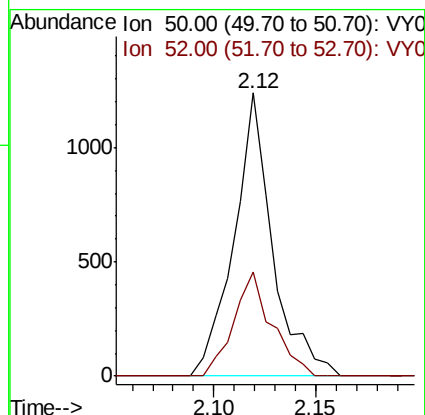
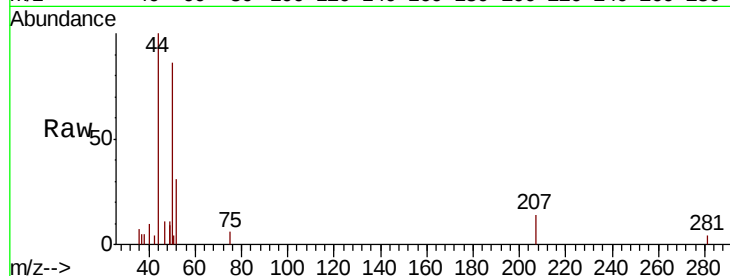
C0AD6RE

Tot Ion: 50 Resp: 1625

Ion Ratio Lower Upper

50 100

52 36.7 22.8 42.4



#11

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

Concen: 0.266 ug/L

RT: 3.86 min Scan# 334

Delta R.T. -0.05 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

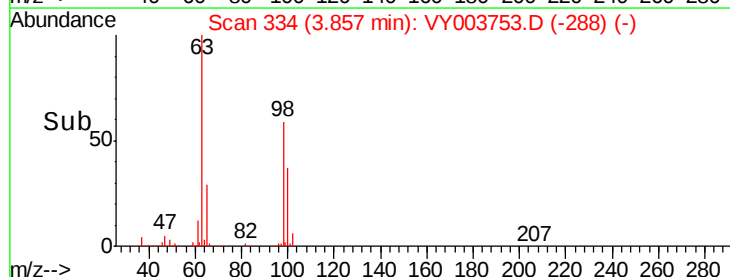
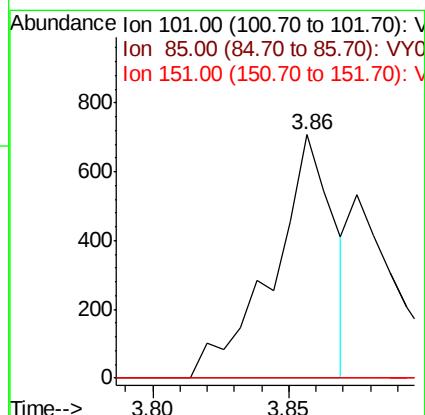
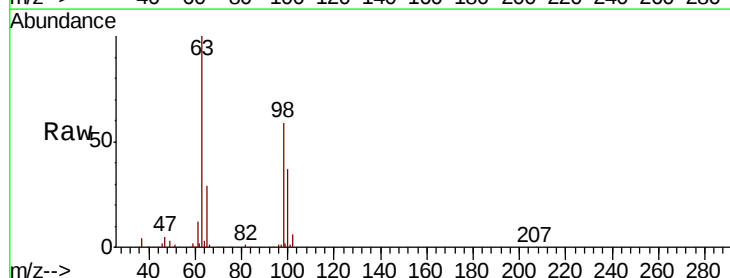
Tgt Ion:101 Resp: 1092

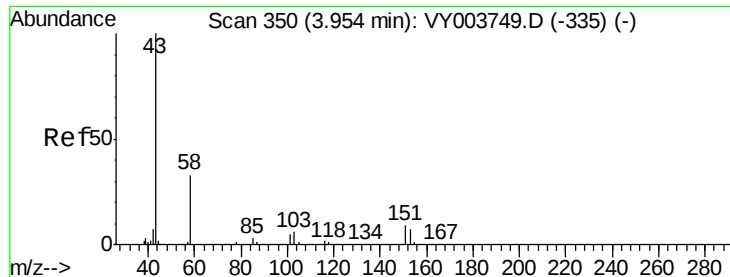
Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

151 0.0 62.1 93.1#





#13

Acetone

Concen: 5.933 ug/L

RT: 3.96 min Scan# 351

Delta R.T. 0.01 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

Instrument :

MSVOA_Y

ClientSampleId :

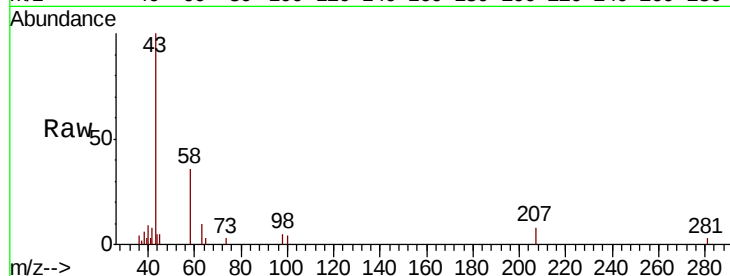
C0AD6RE

Tot Ion: 43 Resp: 6869

Ion Ratio Lower Upper

43 100

58 24.0 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VY003749.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VY003749.D (-335) (-)

3.96

2500

2000

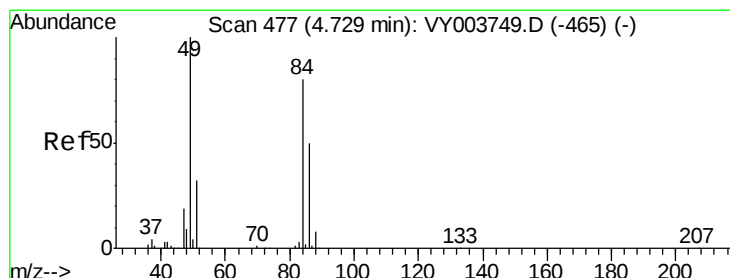
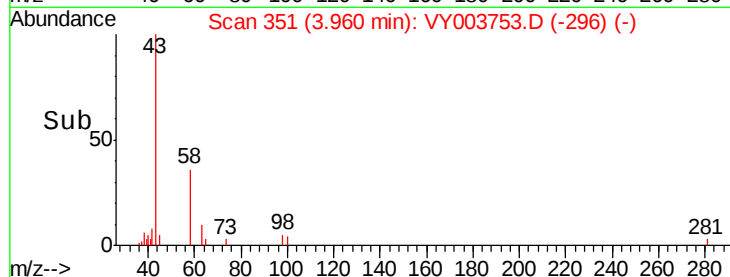
1500

1000

500

0

Time--> 3.85 3.90 3.95 4.00 4.05



#16

Methylene chloride

Concen: 1.604 ug/L

RT: 4.73 min Scan# 477

Delta R.T. -0.00 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

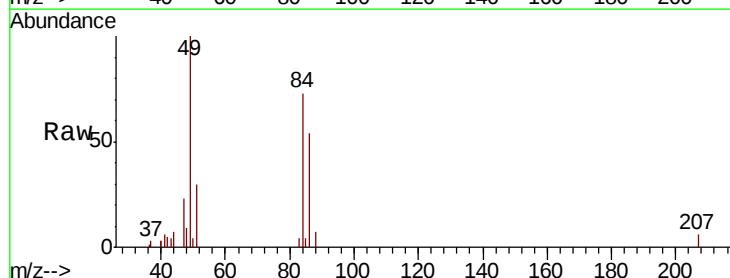
Tgt Ion: 84 Resp: 8129

Ion Ratio Lower Upper

84 100

49 137.8 88.2 163.8

86 75.0 43.0 79.8



Abundance Ion 84.00 (83.70 to 84.70): VY003749.D (-465) (-)

Ion 49.00 (48.70 to 49.70): VY003749.D (-465) (-)

Ion 86.00 (85.70 to 86.70): VY003749.D (-465) (-)

4.73

4000

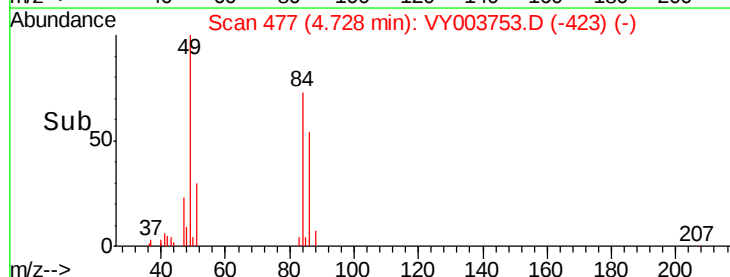
3000

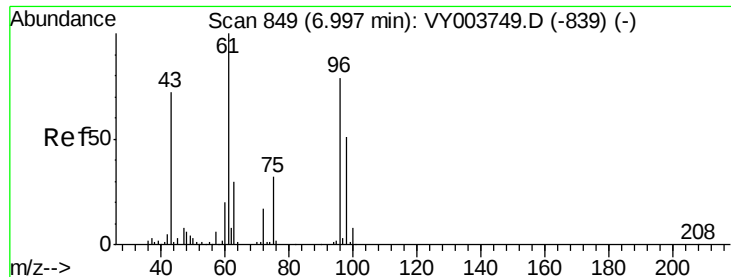
2000

1000

0

Time--> 4.65 4.70 4.75 4.80

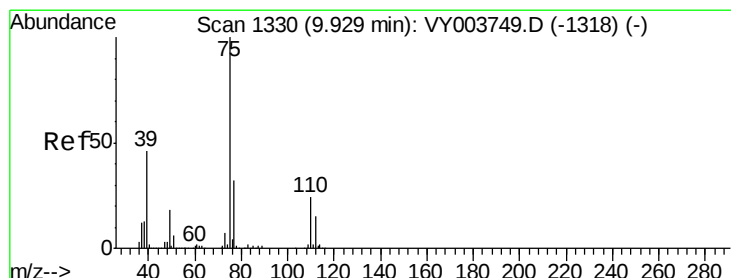
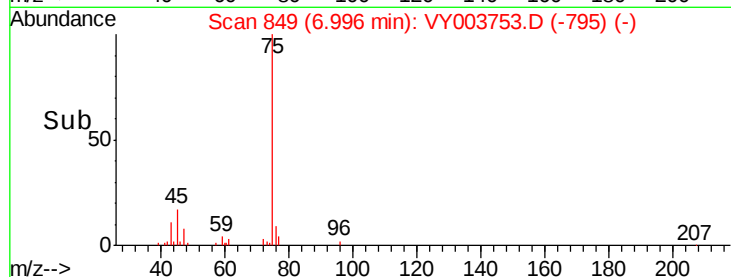
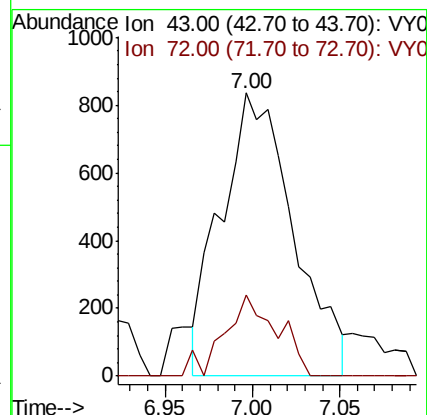
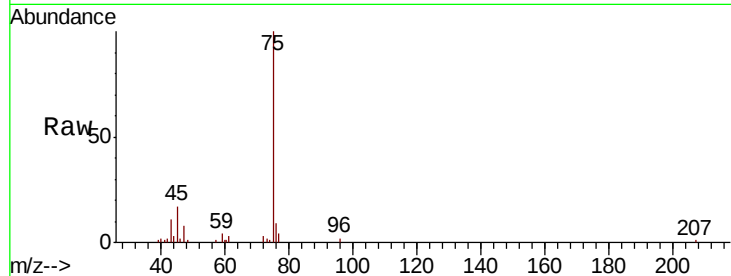




#21
 2-Butanone
 Concen: 1.201 ug/L
 RT: 7.00 min Scan# 849
 Delta R.T. -0.00 min
 Lab File: VY003753.D
 Acq: 14 Dec 2020 17:17

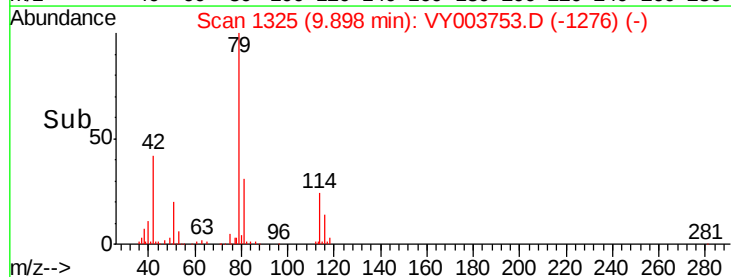
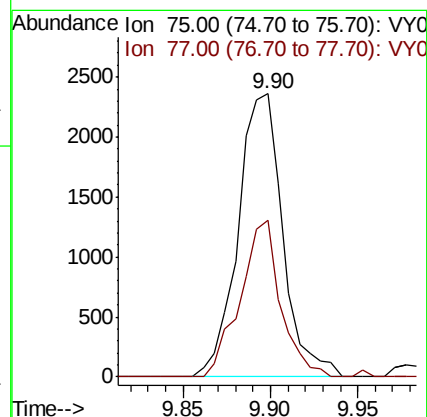
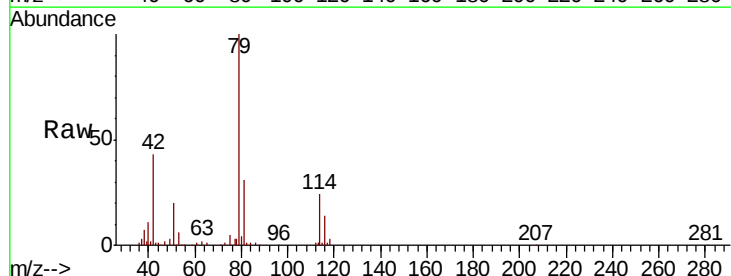
Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD6RE

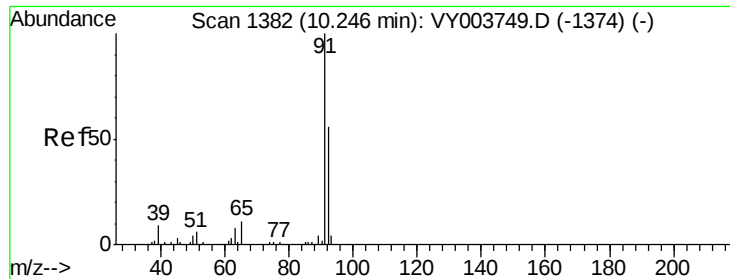
Tot Ion: 43 Resp: 2417
 Ion Ratio Lower Upper
 43 100
 72 16.3 13.0 39.0



#42
 cis-1,3-Dichloropropene
 Concen: 0.716 ug/L
 RT: 9.90 min Scan# 1325
 Delta R.T. -0.03 min
 Lab File: VY003753.D
 Acq: 14 Dec 2020 17:17

Tgt Ion: 75 Resp: 4208
 Ion Ratio Lower Upper
 75 100
 77 55.6 21.3 39.6#





#44

Toluene

Concen: 0.521 ug/L

RT: 10.25 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

Instrument :

MSVOA_Y

ClientSampleId :

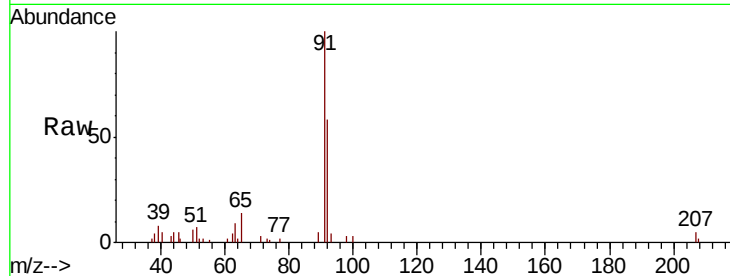
C0AD6RE

Tot Ion: 91 Resp: 7904

Ion Ratio Lower Upper

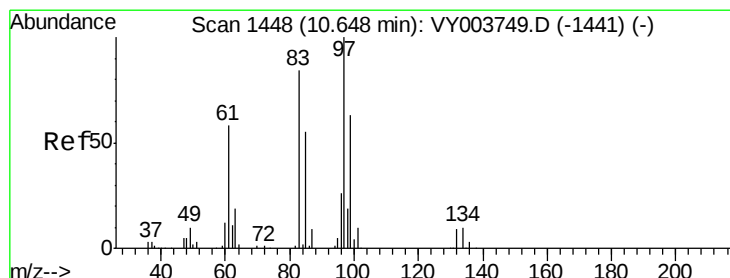
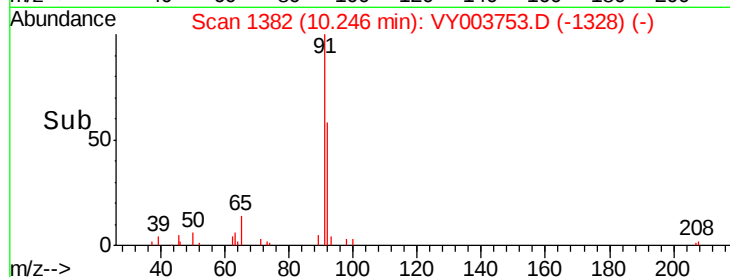
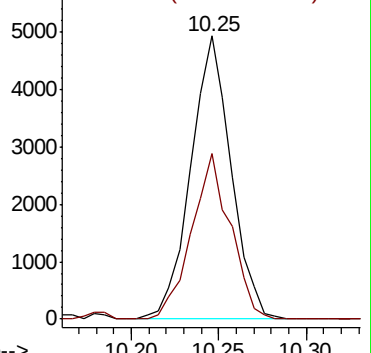
91 100

92 58.4 39.9 74.1



Abundance Ion 91.00 (90.70 to 91.70): VY003749.D (-1374) (-)

Ion 92.00 (91.70 to 92.70): VY003749.D (-1374) (-)



#46

1,1,2-Trichloroethane

Concen: 0.556 ug/L

RT: 10.62 min Scan# 1443

Delta R.T. -0.03 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

Tgt Ion: 97 Resp: 1664

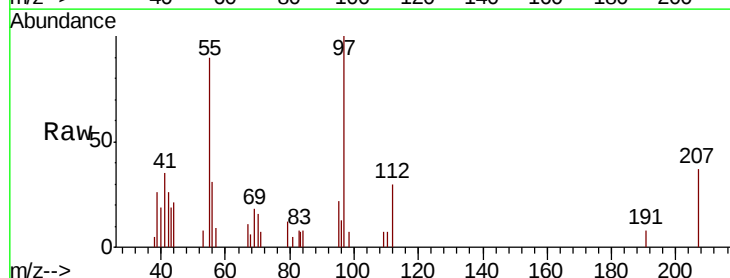
Ion Ratio Lower Upper

97 100

83 14.3 60.0 111.4#

85 0.0 38.9 72.2#

99 0.0 44.4 82.4#

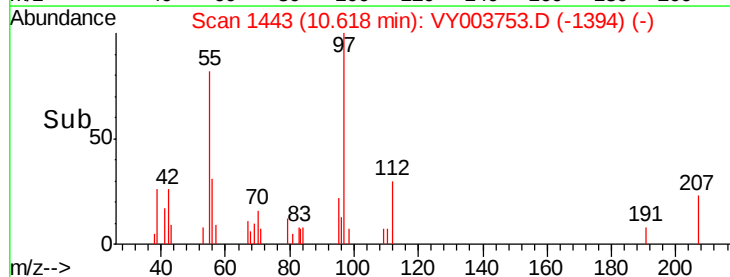
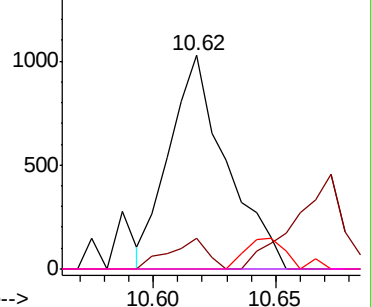


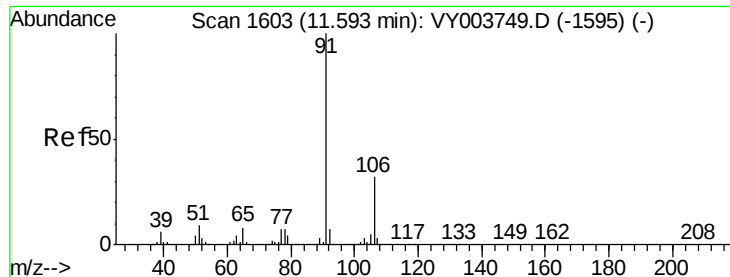
Abundance Ion 97.00 (96.70 to 97.70): VY003749.D (-1441) (-)

Ion 83.00 (82.70 to 83.70): VY003749.D (-1441) (-)

Ion 85.00 (84.70 to 85.70): VY003749.D (-1441) (-)

Ion 99.00 (98.70 to 99.70): VY003749.D (-1441) (-)

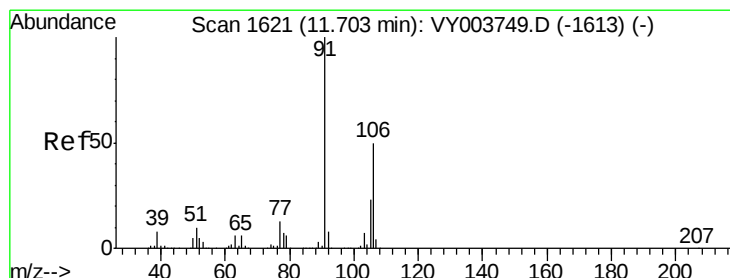
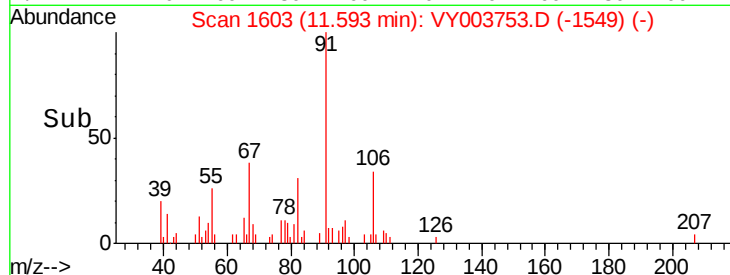
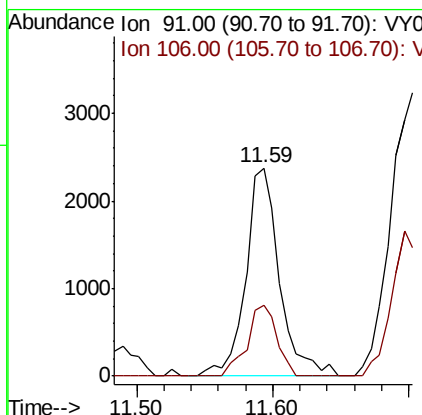
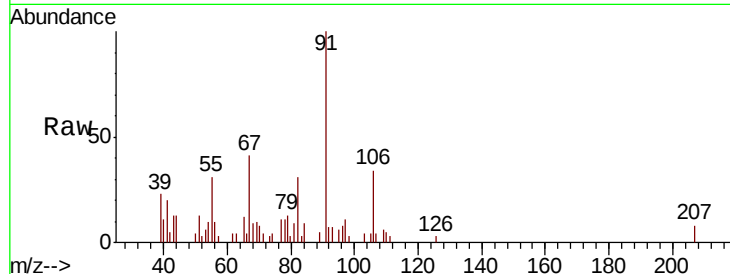




#53
Ethylbenzene
Concen: 0.250 ug/L
RT: 11.59 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VY003753.D
Acq: 14 Dec 2020 17:17

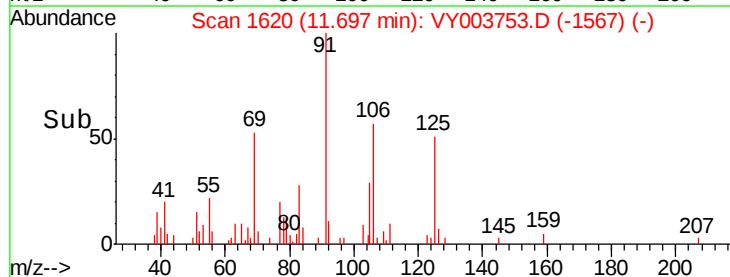
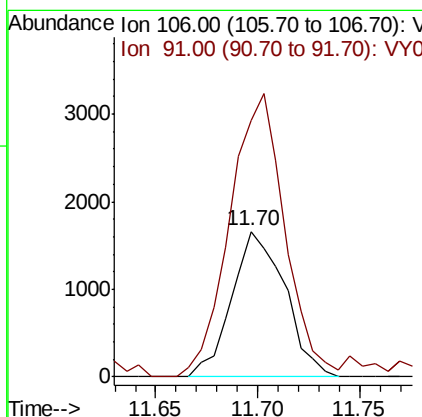
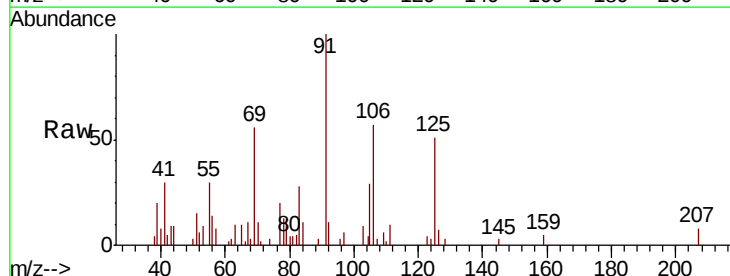
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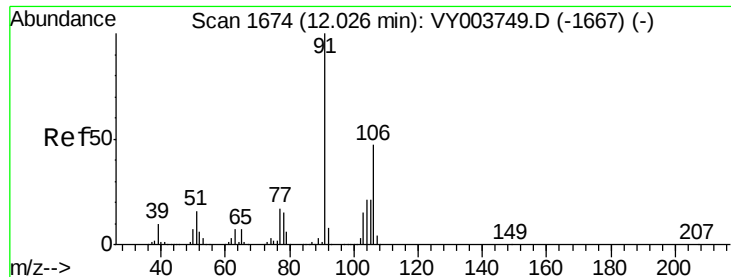
Tot Ion: 91 Resp: 4141
Ion Ratio Lower Upper
91 100
106 34.1 22.0 41.0



#54
m,p-Xylene
Concen: 0.471 ug/L
RT: 11.70 min Scan# 1620
Delta R.T. -0.01 min
Lab File: VY003753.D
Acq: 14 Dec 2020 17:17

Tgt Ion: 106 Resp: 3010
Ion Ratio Lower Upper
106 100
91 176.2 136.4 253.4





#55

o-xylene

Concen: 0.532 ug/L

RT: 12.03 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

Instrument :

MSVOA_Y

ClientSampleId :

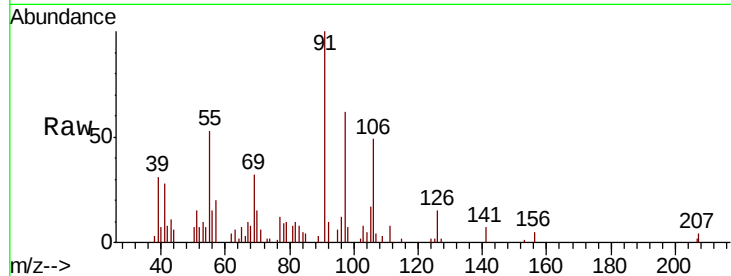
C0AD6RE

Tot Ion:106 Resp: 3188

Ion Ratio Lower Upper

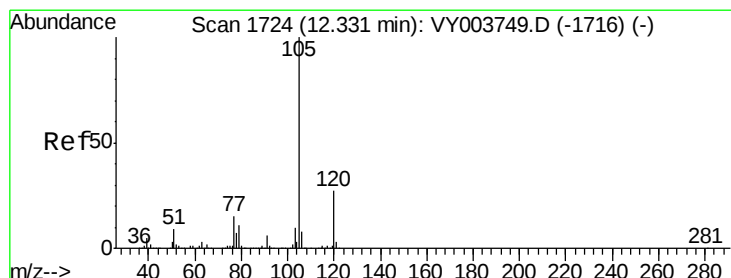
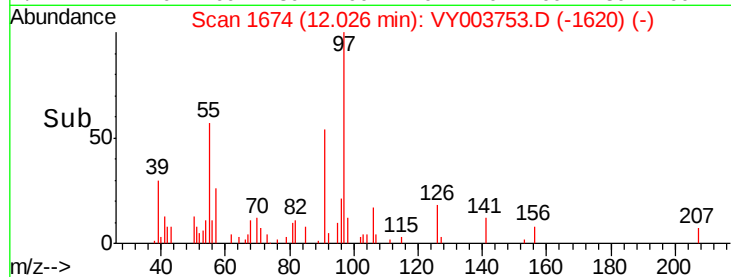
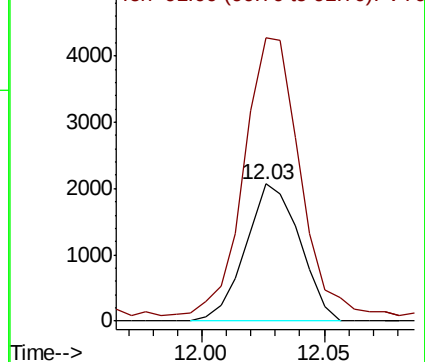
106 100

91 206.1 145.5 270.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#57

Isopropylbenzene

Concen: 0.617 ug/L

RT: 12.33 min Scan# 1724

Delta R.T. -0.00 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

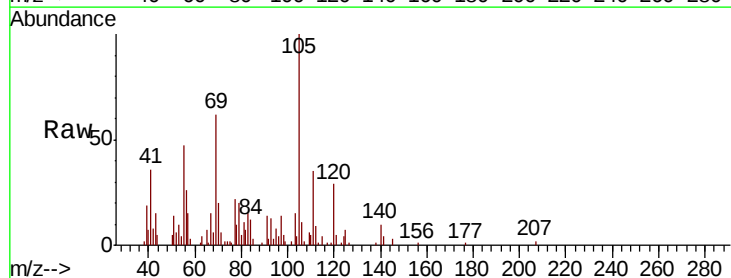
Tgt Ion:105 Resp: 9873

Ion Ratio Lower Upper

105 100

120 28.6 22.1 33.1

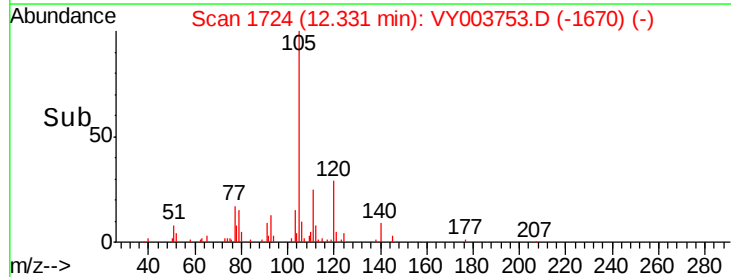
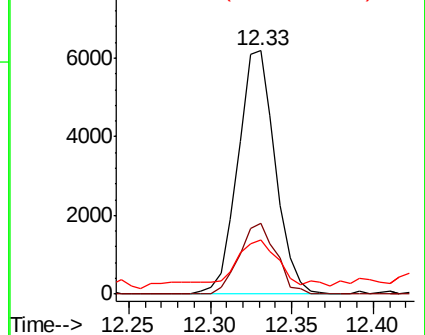
77 19.0 12.2 18.4#

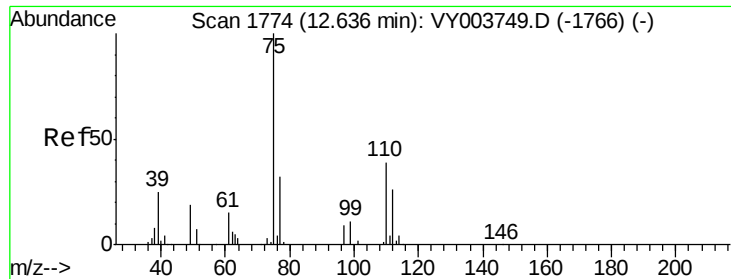


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VY0





#59

1,2,3-Trichloropropane

Concen: 3.141 ug/L

RT: 13.42 min Scan# 1903

Delta R.T. 0.79 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

Instrument :

MSVOA_Y

ClientSampleId :

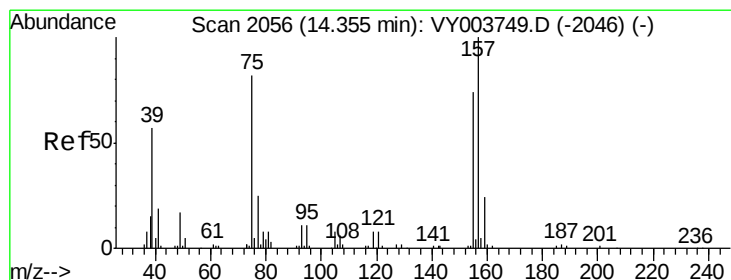
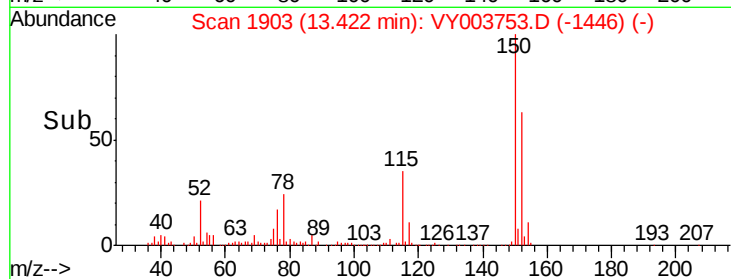
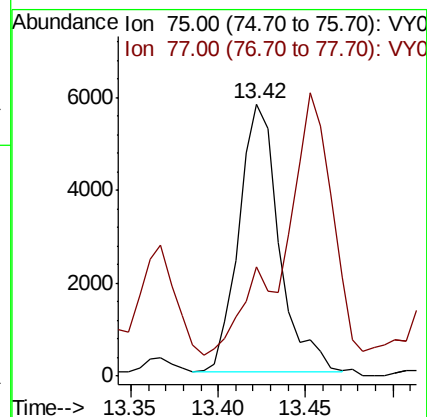
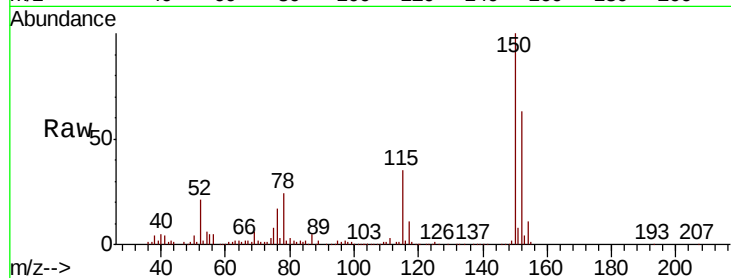
C0AD6RE

Tot Ion: 75 Resp: 9272

Ion Ratio Lower Upper

75 100

77 28.0 25.5 38.3



#66

1,2-Dibromo-3-chloropropane

Concen: 20.506 ug/L

RT: 14.33 min Scan# 2052

Delta R.T. -0.02 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

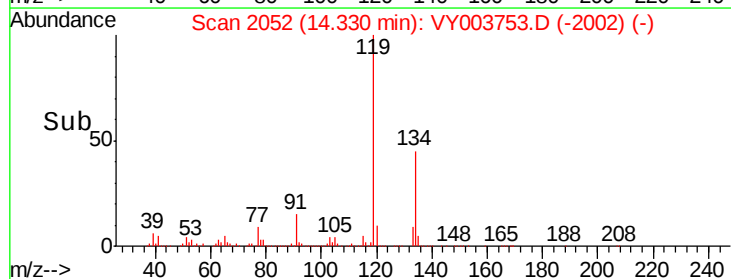
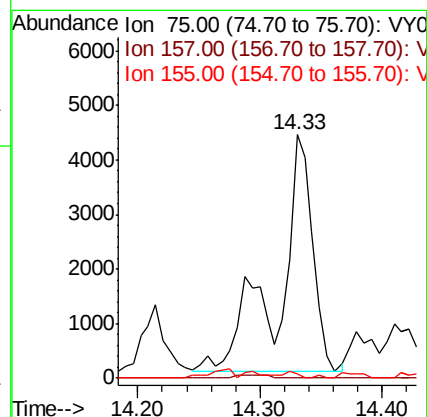
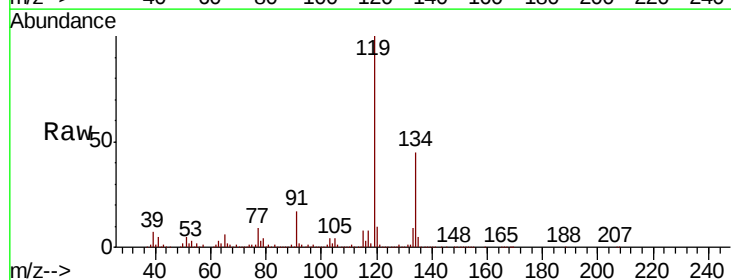
Tgt Ion: 75 Resp: 8562

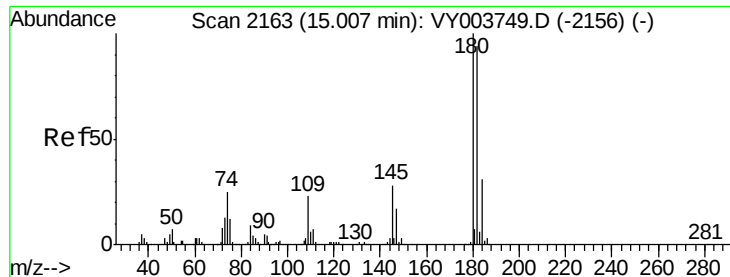
Ion Ratio Lower Upper

75 100

157 0.0 93.8 140.8#

155 1.6 70.9 106.3#





#68

1,2,4-trichlorobenzene

Concen: 0.547 ug/L

RT: 15.01 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

Instrument :

MSVOA_Y

ClientSampleId :

C0AD6RE

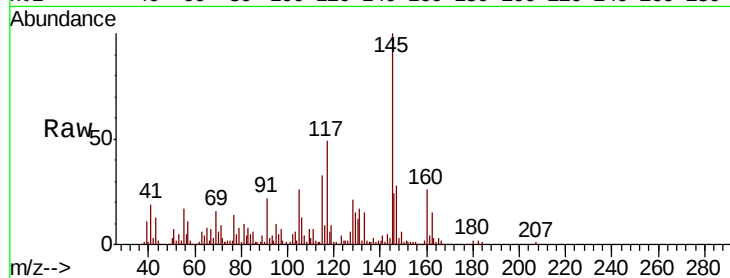
Tot Ion:180 Resp: 1494

Ion Ratio Lower Upper

180 100

182 139.6 76.8 115.2#

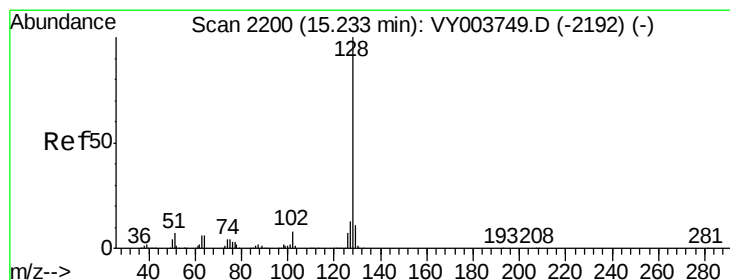
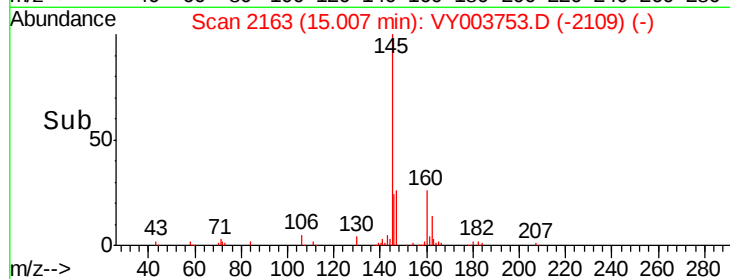
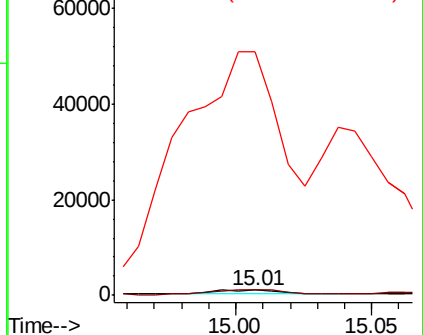
145 8850.3 23.7 35.5#



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: 54.283 ug/L

RT: 15.23 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VY003753.D

Acq: 14 Dec 2020 17:17

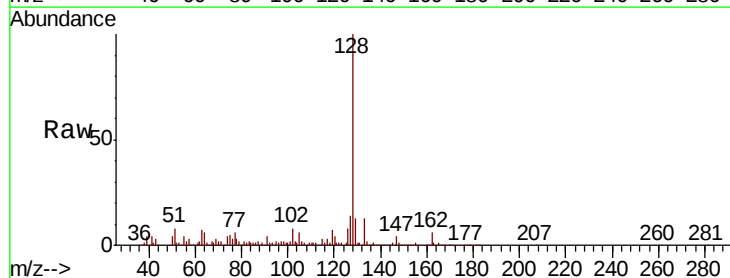
Tgt Ion:128 Resp: 338475

Ion Ratio Lower Upper

128 100

129 10.2 8.6 12.8

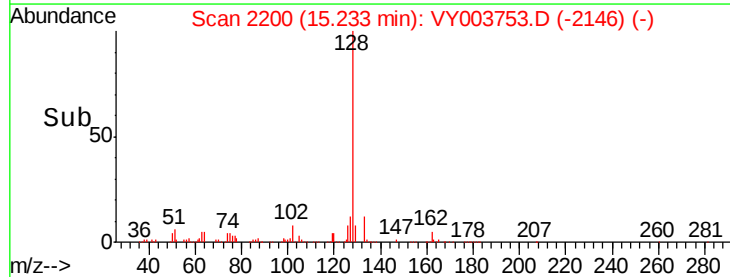
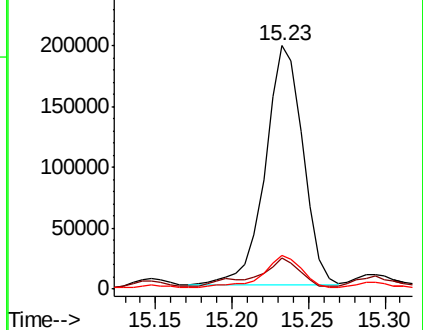
127 13.4 10.2 15.4

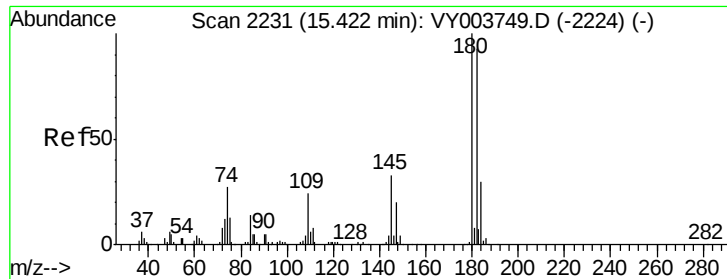


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 0.512 ug/L
 RT: 15.43 min Scan# 2233
 Delta R.T. 0.01 min
 Lab File: VY003753.D
 Acq: 14 Dec 2020 17:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 C0AD6RE

Tot Ion:180 Resp: 1272
 Ion Ratio Lower Upper
 180 100
 182 91.3 77.0 115.6
 145 9191.4 25.0 37.6#

