

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030520\
 Data File : VU037097.D
 Acq On : 05 Mar 2020 20:43
 Operator : JC/MD
 Sample : L1784-14
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0B02

Quant Time: Mar 05 22:40:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 05 22:35:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	252025	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	240630	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	89401	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	72946	34.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	68.94%
7) Chloroethane-d5	1.93	69	76194	43.51	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.02%
11) 1,1-Dichloroethene-d2	2.59	63	111795	31.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	63.08%
21) 2-Butanone-d5	4.67	46	148262	104.43	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.43%
24) Chloroform-d	5.11	84	153188	47.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.74	65	106857	48.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.72%
32) Benzene-d6	5.76	84	326628	46.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.88%
36) 1,2-Dichloropropane-d6	6.73	67	102755	45.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.16%
41) Toluene-d8	7.92	98	282152	43.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.42%
43) trans-1,3-Dichloropropene-	8.20	79	46283	44.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.36%
47) 2-Hexanone-d5	8.66	63	104869	95.14	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.14%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	155113	48.80	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	12.21	152	86691	49.60	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.20%

Target Compounds

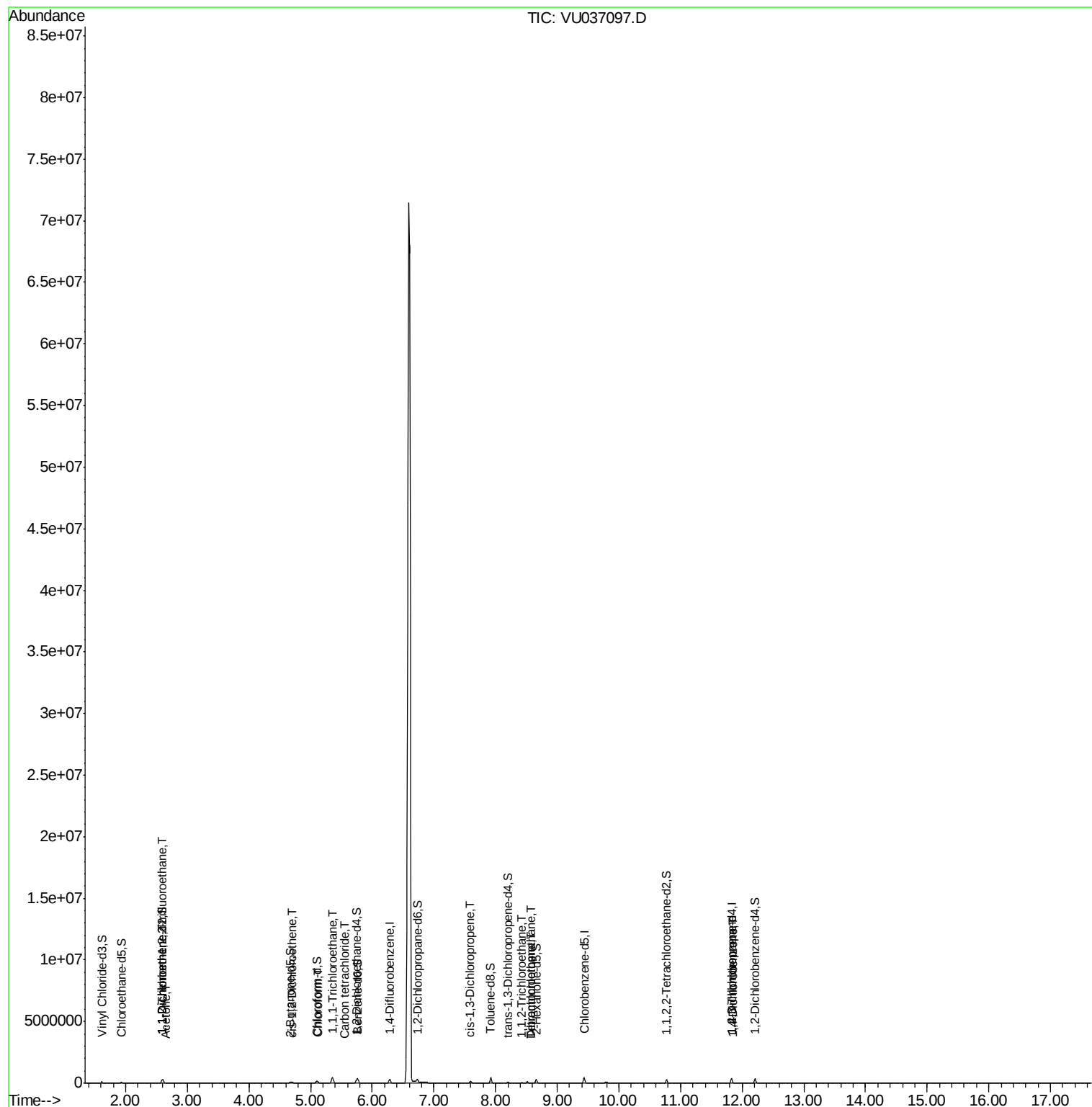
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	80375	49.940	ug/L	100
12) 1,1-Dichloroethene	2.60	96	11244	6.907	ug/L #	1
13) Acetone	2.66	43	3303	2.262	ug/L	95
20) cis-1,2-Dichloroethene	4.71	96	24095	12.323	ug/L	96
25) Chloroform	5.13	83	8435	2.573	ug/L	96
30) 1,1,1-Trichloroethane	5.36	97	313343	121.454	ug/L	98
31) Carbon tetrachloride	5.56	117	7674	3.795	ug/L	97
39) cis-1,3-Dichloropropene	7.59	75	2938	0.932	ug/L #	42
45) 1,1,2-Trichloroethane	8.43	97	13044	7.166	ug/L	98
46) Tetrachloroethene	8.57	164	2924	2.376	ug/L	95
49) Dibromochloromethane	8.57	129	3098	1.793	ug/L #	11
59) 1,2,3-Trichloropropane	11.83	75	14121	5.363	ug/L	95
63) 1,4-Dichlorobenzene	11.85	146	2763	0.964	ug/L	93

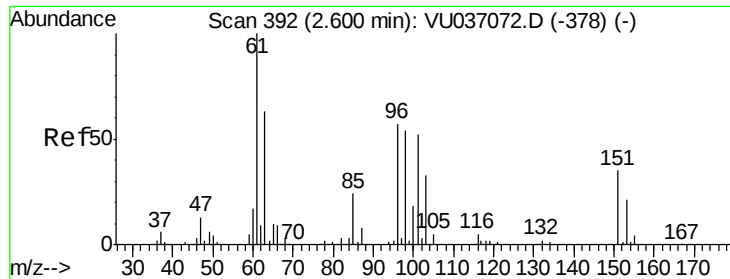
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 05 22:35:59 2020
Response via : Initial Calibration





#10

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

Concen: 49.940 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

Instrument :

MSVOA_U

ClientSampleId :

C0B02

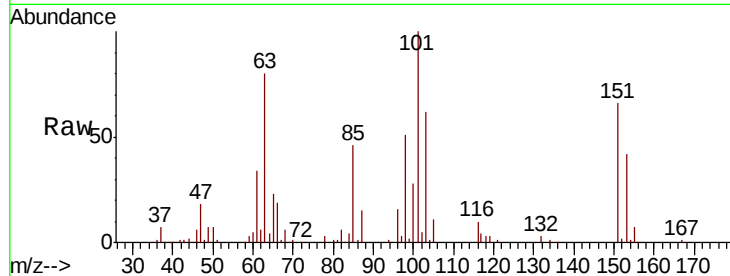
Tot Ion:101 Resp: 80375

Ion Ratio Lower Upper

101 100

85 45.5 36.4 54.6

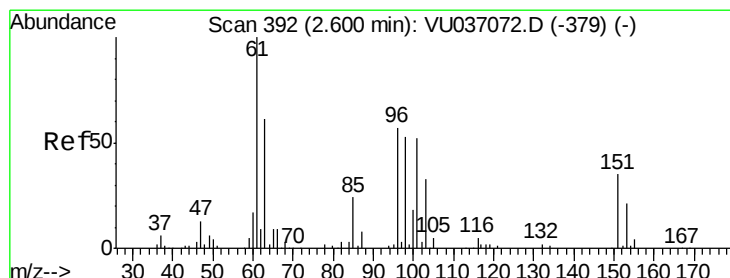
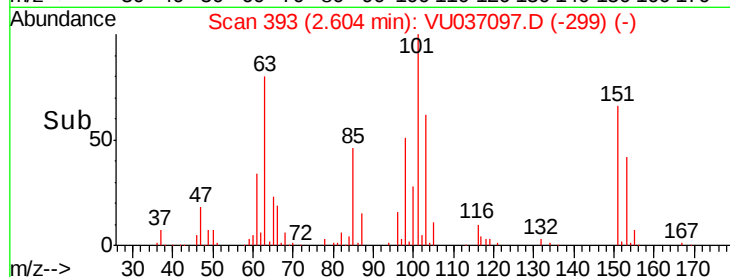
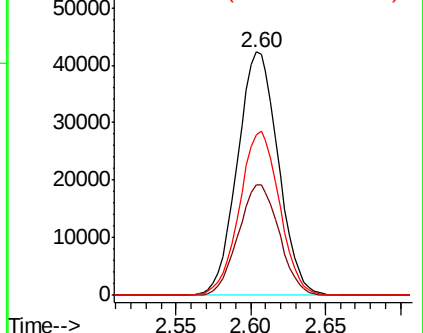
151 66.0 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 6.907 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

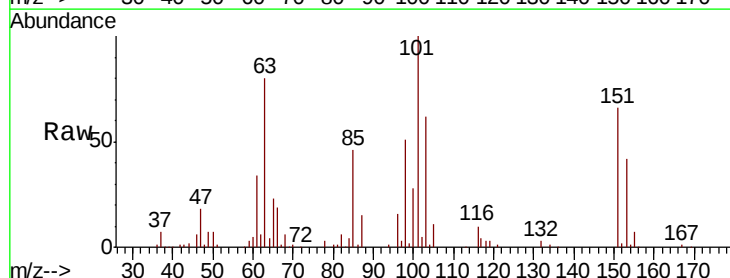
Tgt Ion: 96 Resp: 11244

Ion Ratio Lower Upper

96 100

61 214.2 127.5 236.7

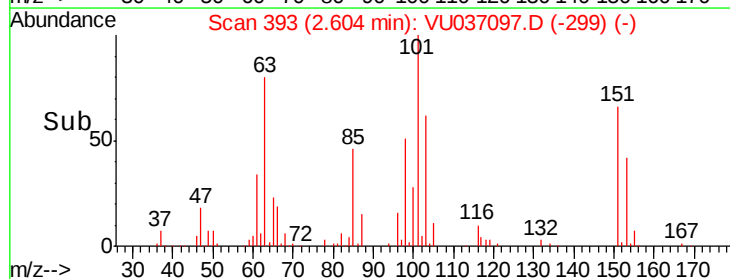
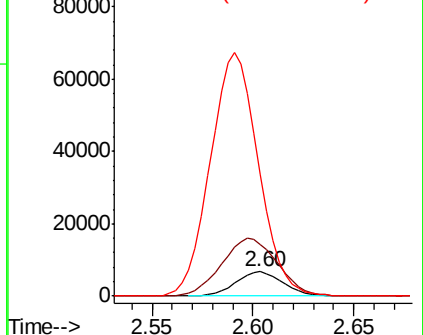
63 503.3 101.4 188.2#

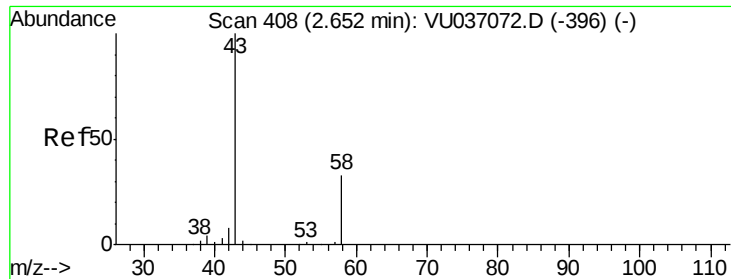


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

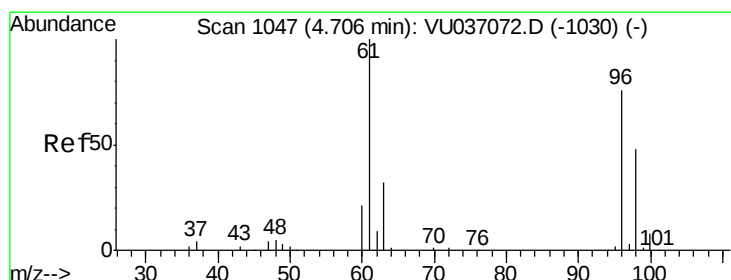
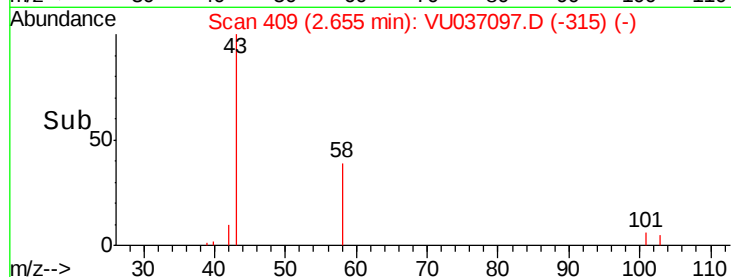
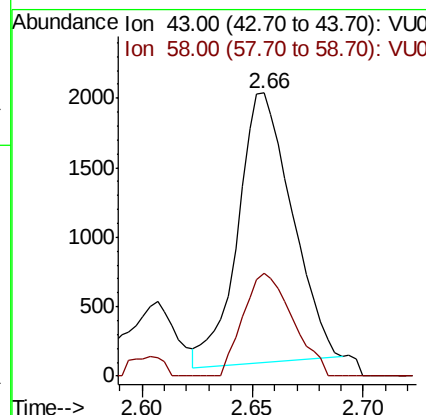
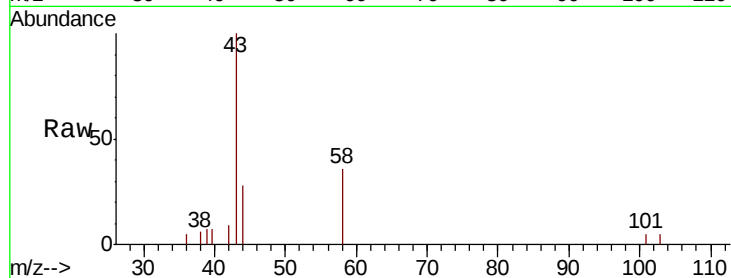




#13
Acetone
Concen: 2.262 ug/L
RT: 2.66 min Scan# 409
Delta R.T. 0.00 min
Lab File: VU037097.D
Acq: 05 Mar 2020 20:43

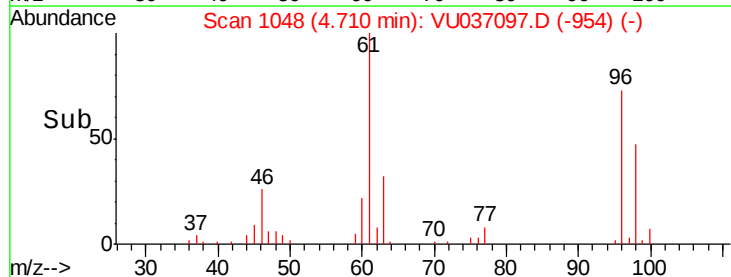
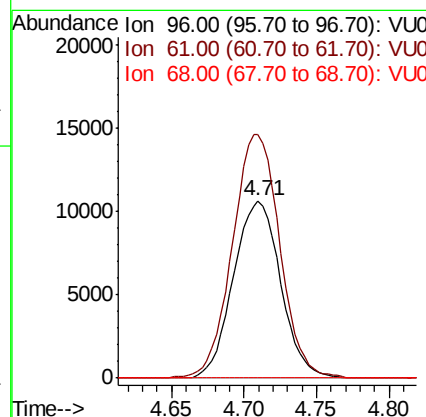
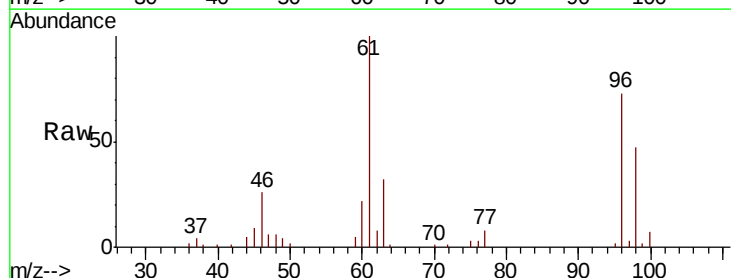
Instrument :
MSVOA_U
ClientSampled :
C0B02

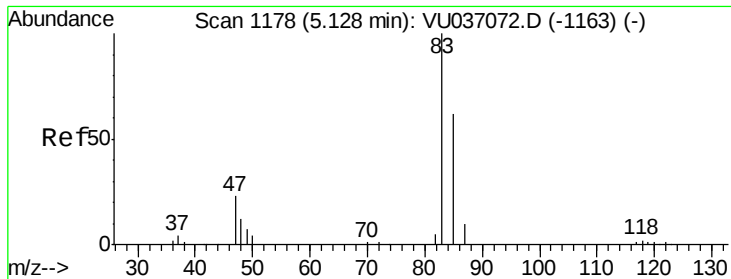
Tot Ion: 43 Resp: 3303
Ion Ratio Lower Upper
43 100
58 34.9 0.0 64.6



#20
cis-1,2-Dichloroethene
Concen: 12.323 ug/L
RT: 4.71 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU037097.D
Acq: 05 Mar 2020 20:43

Tgt Ion: 96 Resp: 24095
Ion Ratio Lower Upper
96 100
61 137.2 93.1 172.9
68 0.0 0.0 0.0





#25

Chloroform

Concen: 2.573 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

Instrument :

MSVOA_U

ClientSampleId :

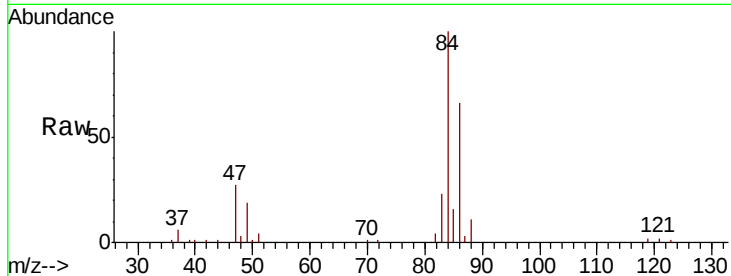
C0B02

Tot Ion: 83 Resp: 8435

Ion Ratio Lower Upper

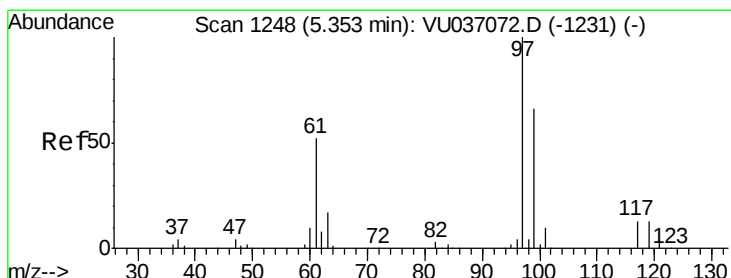
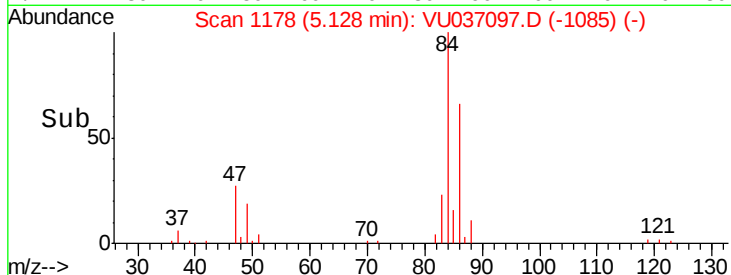
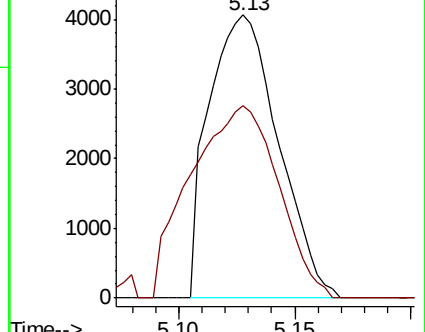
83 100

85 68.0 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU037097.D (-1163) (-)

Ion 85.00 (84.70 to 85.70): VU037097.D (-1163) (-)



#30

1,1,1-Trichloroethane

Concen: 121.454 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

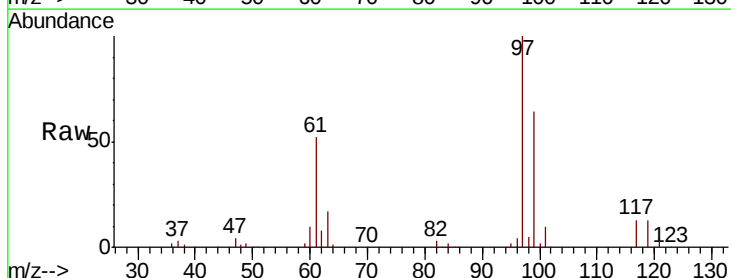
Tgt Ion: 97 Resp: 313343

Ion Ratio Lower Upper

97 100

99 64.1 50.4 75.6

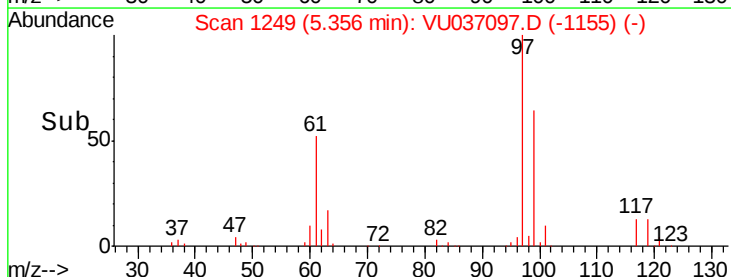
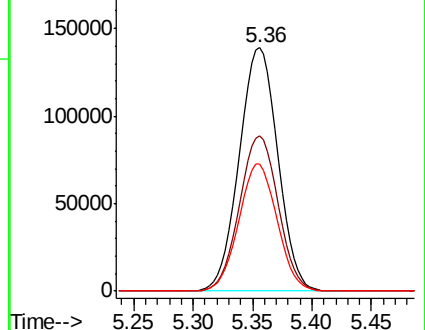
61 51.9 40.3 60.5

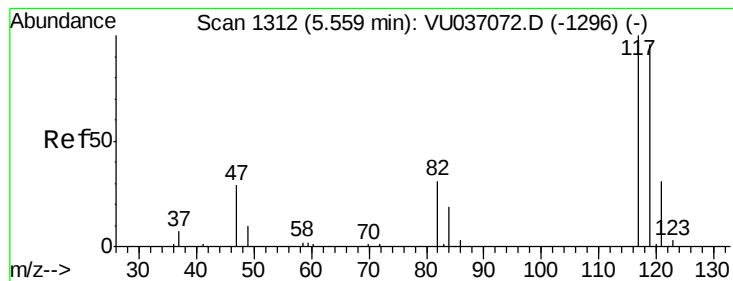


Abundance Ion 97.00 (96.70 to 97.70): VU037097.D (-1231) (-)

Ion 99.00 (98.70 to 99.70): VU037097.D (-1231) (-)

Ion 61.05 (60.75 to 61.75): VU037097.D (-1231) (-)





#31

Carbon tetrachloride

Concen: 3.795 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

Instrument :

MSVOA_U

ClientSampleId :

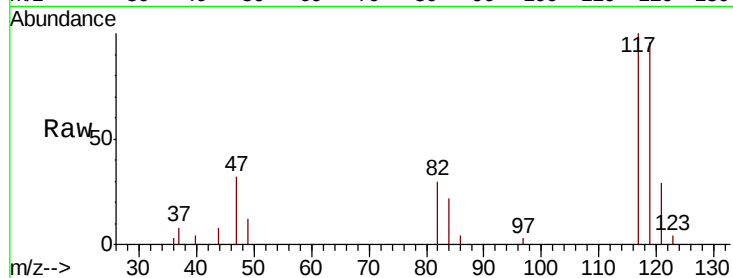
C0B02

Tot Ion:117 Resp: 7674

Ion Ratio Lower Upper

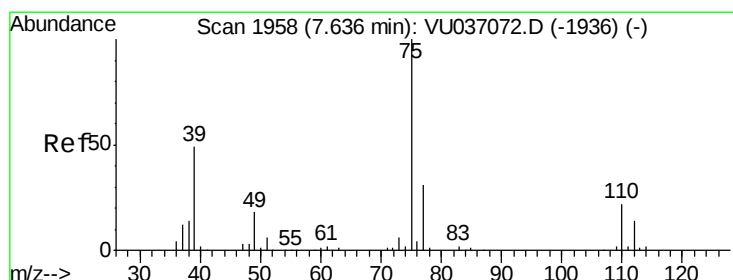
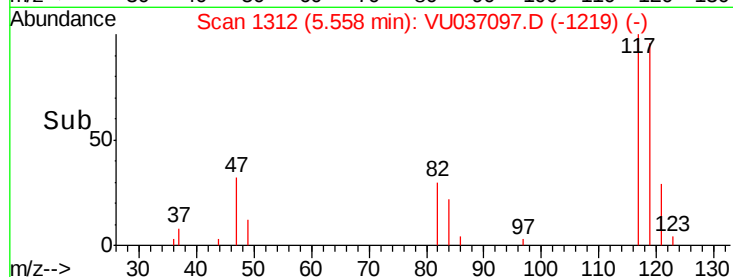
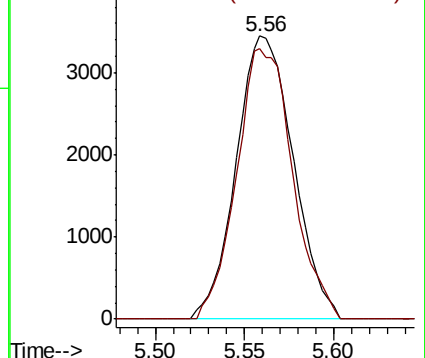
117 100

119 93.7 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#39

cis-1,3-Dichloropropene

Concen: 0.932 ug/L

RT: 7.59 min Scan# 1944

Delta R.T. -0.05 min

Lab File: VU037097.D

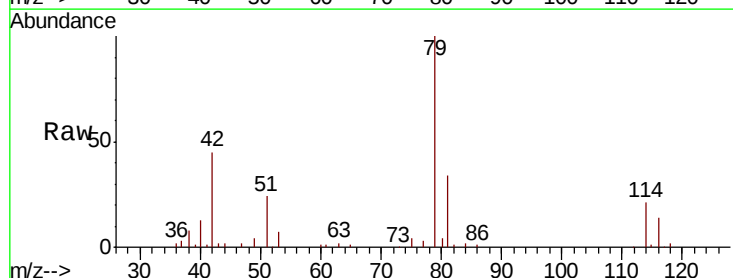
Acq: 05 Mar 2020 20:43

Tgt Ion: 75 Resp: 2938

Ion Ratio Lower Upper

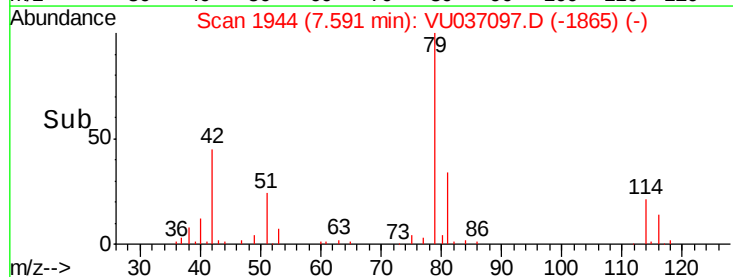
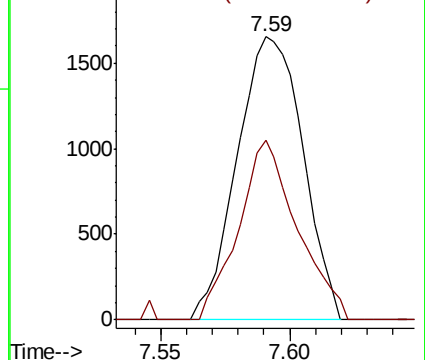
75 100

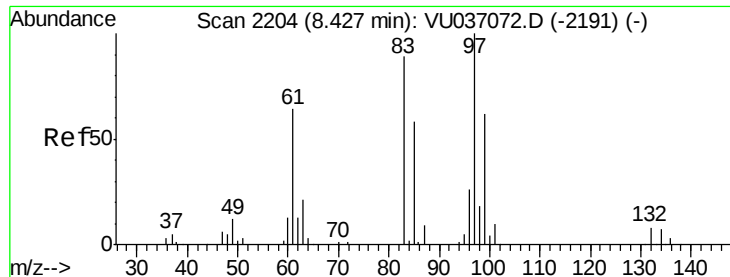
77 63.5 22.0 41.0#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#45

1,1,2-Trichloroethane

Concen: 7.166 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

Instrument :

MSVOA_U

ClientSampleId :

C0B02

Tot Ion: 97 Resp: 13044

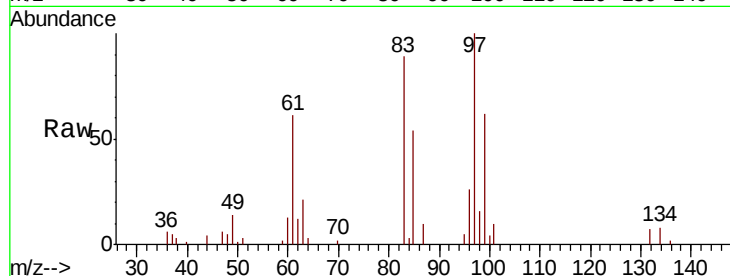
Ion Ratio Lower Upper

97 100

99 62.1 43.6 81.0

83 88.5 62.7 116.5

85 54.0 40.3 74.9



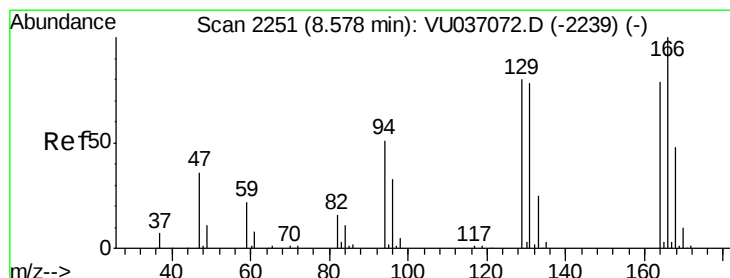
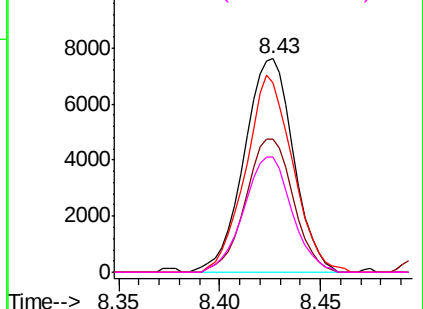
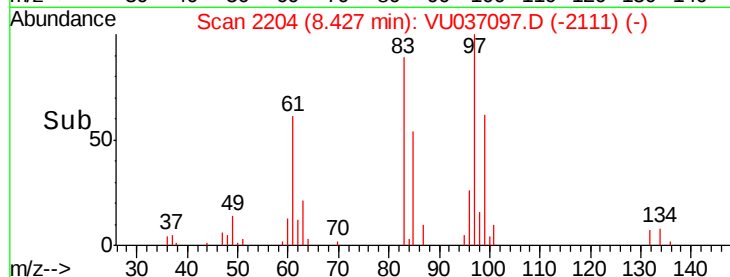
Abundance

Ion 97.00 (96.70 to 97.70): VU037072.D (-2191) (-)

Ion 99.00 (98.70 to 99.70): VU037072.D (-2191) (-)

Ion 83.00 (82.70 to 83.70): VU037072.D (-2191) (-)

Ion 85.00 (84.70 to 85.70): VU037072.D (-2191) (-)



#46

Tetrachloroethene

Concen: 2.376 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

Tgt Ion:164 Resp: 2924

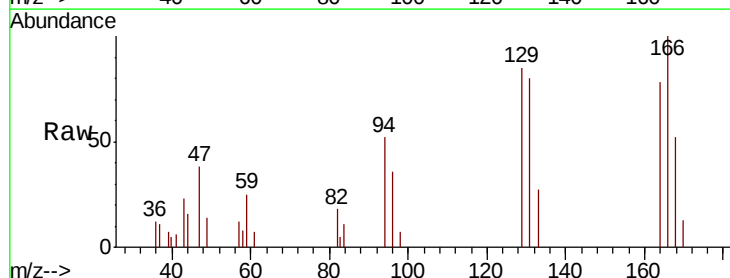
Ion Ratio Lower Upper

164 100

129 108.6 72.0 133.8

131 102.6 67.9 126.1

166 128.2 87.1 161.7



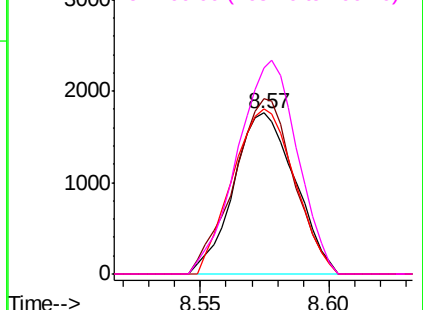
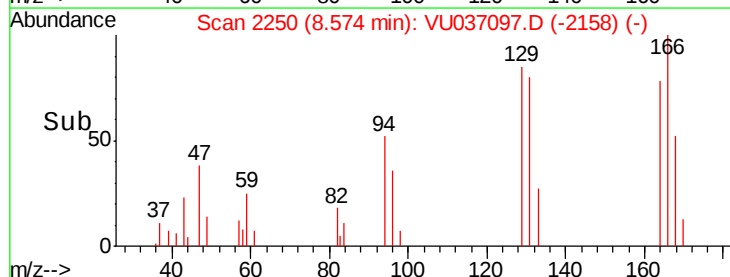
Abundance

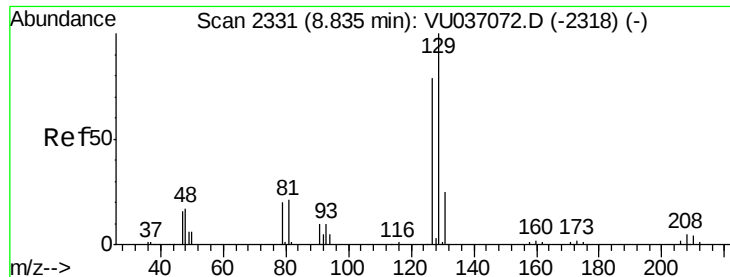
Ion 164.00 (163.70 to 164.70): VU037072.D (-2239) (-)

Ion 129.00 (128.70 to 129.70): VU037072.D (-2239) (-)

Ion 131.00 (130.70 to 131.70): VU037072.D (-2239) (-)

Ion 166.00 (165.70 to 166.70): VU037072.D (-2239) (-)





#49

Dibromochloromethane

Concen: 1.793 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

Instrument :

MSVOA_U

ClientSampled :

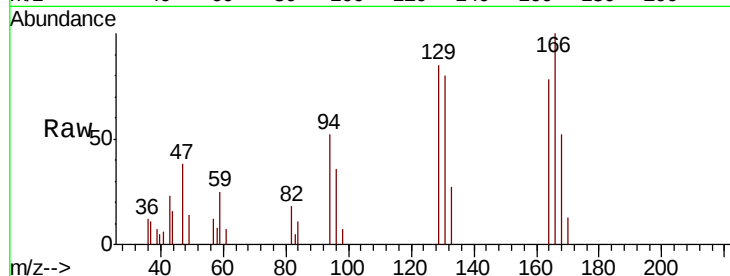
C0B02

Tot Ion:129 Resp: 3098

Ion Ratio Lower Upper

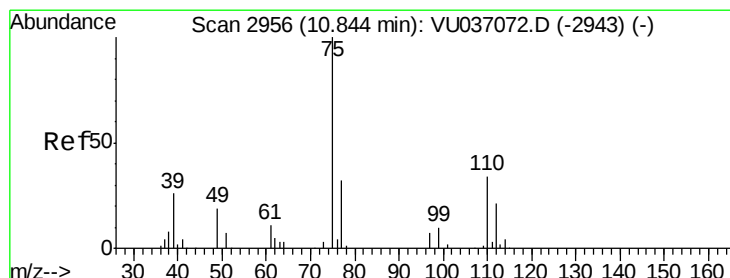
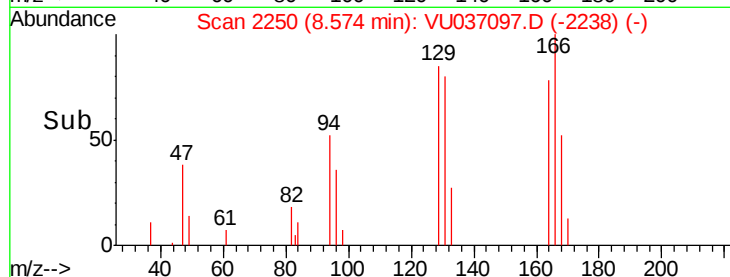
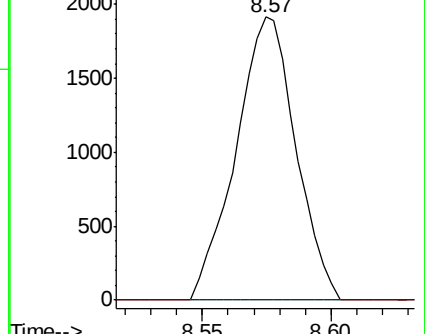
129 100

127 0.0 54.3 100.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 5.363 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. 0.98 min

Lab File: VU037097.D

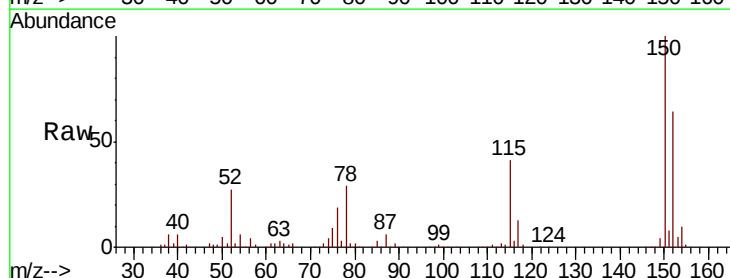
Acq: 05 Mar 2020 20:43

Tgt Ion: 75 Resp: 14121

Ion Ratio Lower Upper

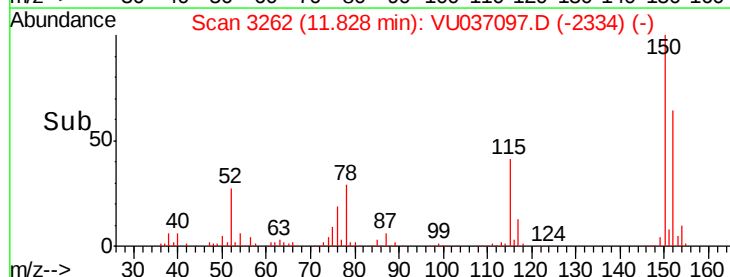
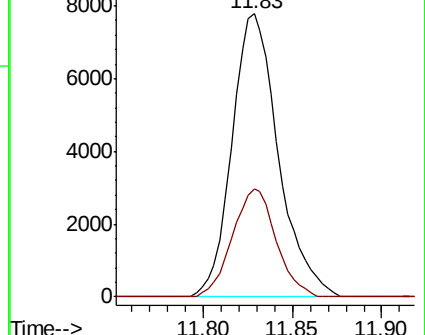
75 100

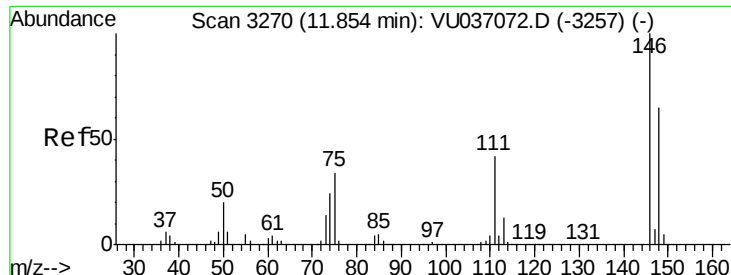
77 35.8 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#63

1,4-Dichlorobenzene

Concen: 0.964 ug/L

RT: 11.85 min Scan# 3270

Delta R.T. -0.00 min

Lab File: VU037097.D

Acq: 05 Mar 2020 20:43

Instrument :

MSVOA_U

ClientSampleId :

C0B02

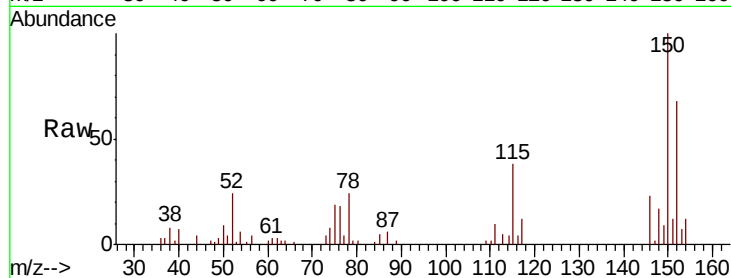
Tot Ion:146 Resp: 2763

Ion Ratio Lower Upper

146 100

111 45.1 29.8 55.4

148 72.0 45.1 83.9



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

