

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034672.D
 Acq On : 25 Feb 2020 14:27
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

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 2/26/2020 12:38:56 PM

Quant Time: Feb 25 15:10:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1095450	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2272453	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2268106	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1905737	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	2371m	0.031	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	5672m	0.027	ppbv	
35) Carbon Tetrachloride	7.02	117	5920m	0.027	ppbv	
38) Trichloroethene	7.85	130	2656m	0.031	ppbv	
52) Tetrachloroethene	11.27	164	2442m	0.030	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.73	83	8044m	0.039	ppbv	

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

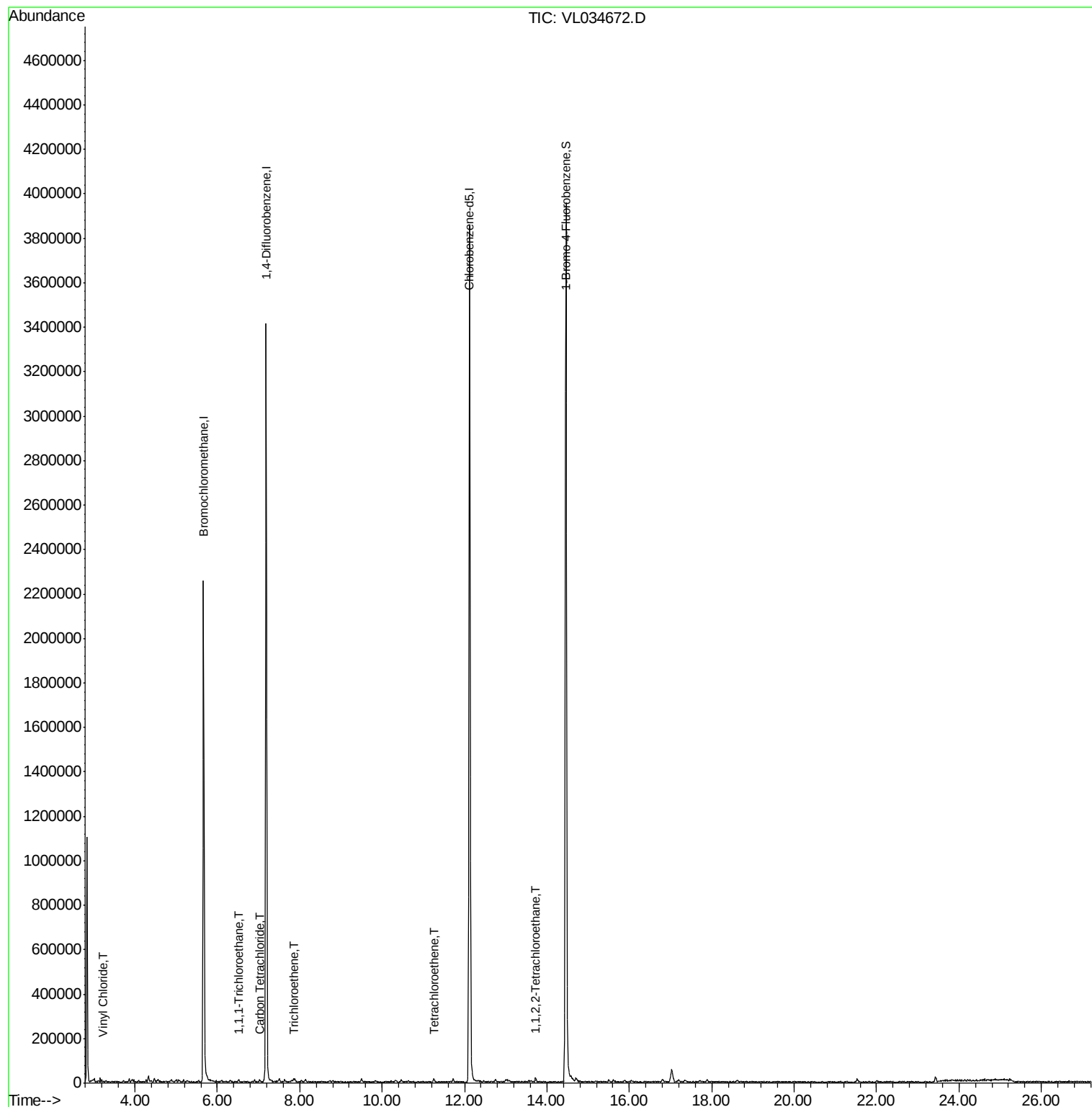
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022520\
Data File : VL034672.D
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Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

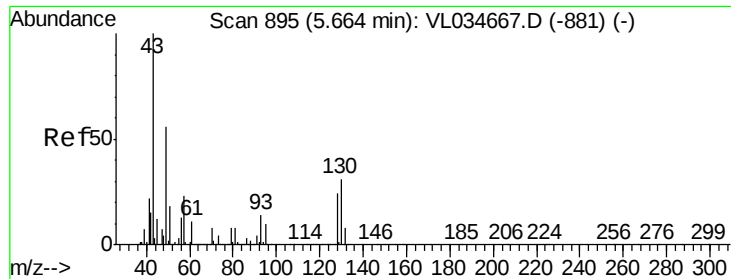
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

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#1

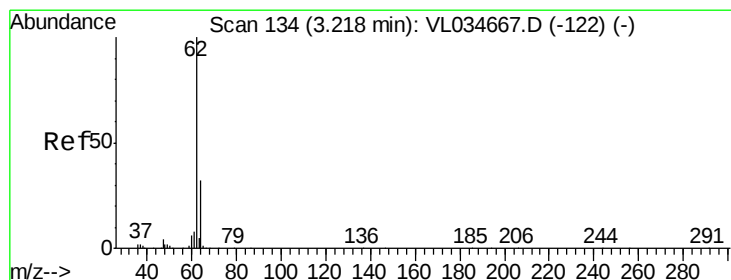
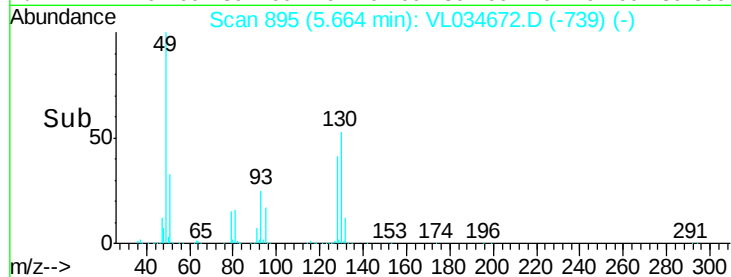
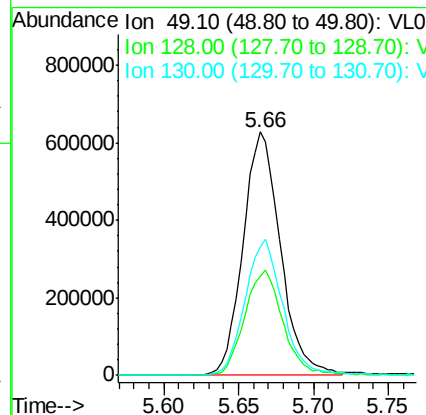
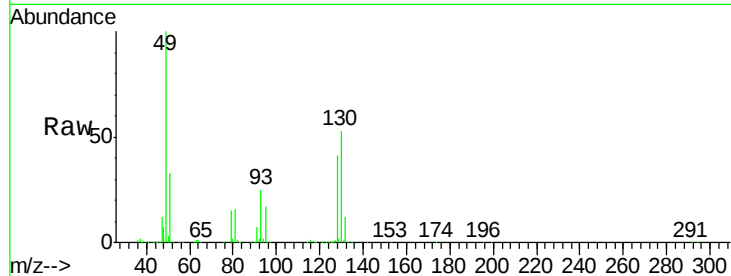
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VL034672.D
 Acq: 25 Feb 2020 14:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	49	128	130
Resp	1095450		
Ratio	100	44.7	56.7
Lower		21.9	27.9
Upper		65.5	83.7

Manual Integrations
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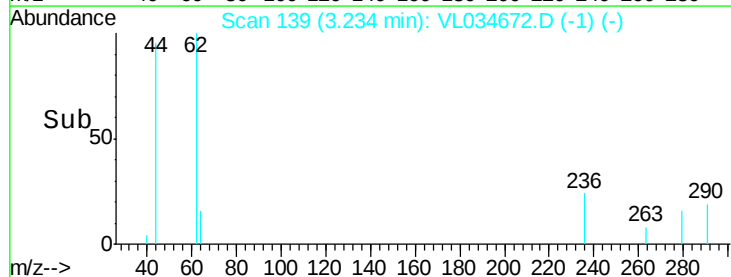
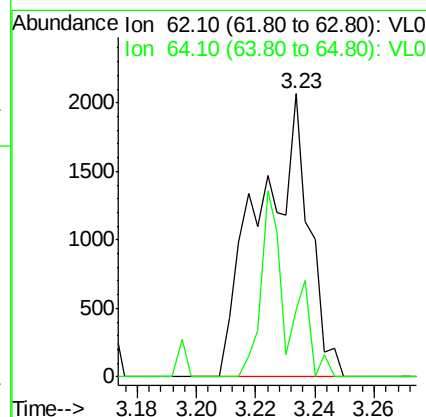
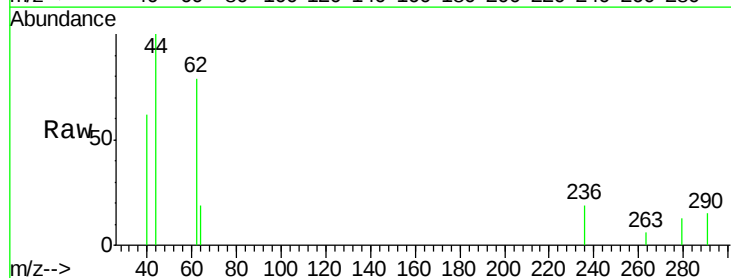
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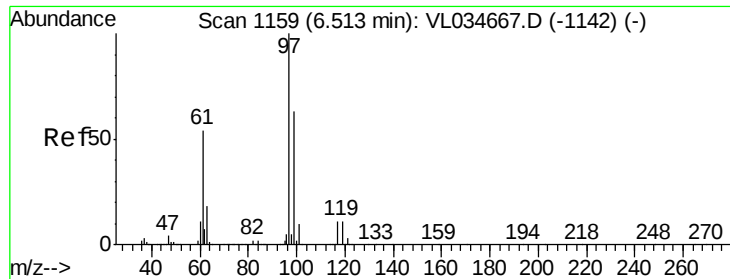


#5

Vinyl Chloride
 Concen: 0.031 ppbv m
 RT: 3.23 min Scan# 139
 Delta R.T. 0.02 min
 Lab File: VL034672.D
 Acq: 25 Feb 2020 14:27

Tgt Ion	62	64
Resp	2371	
Ratio	100	23.5
Lower		25.7
Upper		38.5





#32

1,1,1-Trichloroethane

Concen: 0.027 ppbv m

RT: 6.51 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VL034672.D

Acq: 25 Feb 2020 14:27

Instrument :

MSVOA_L

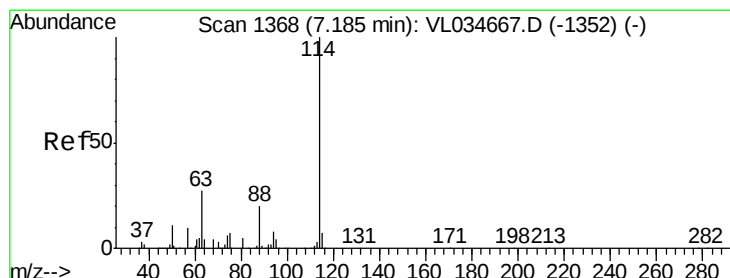
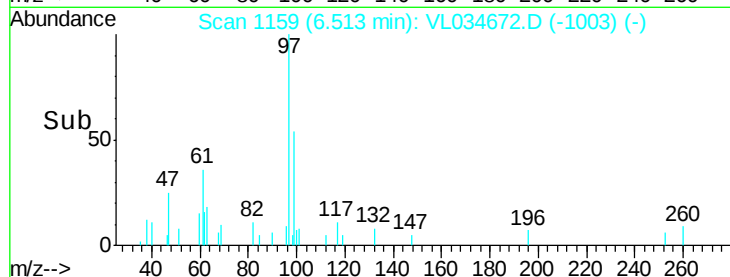
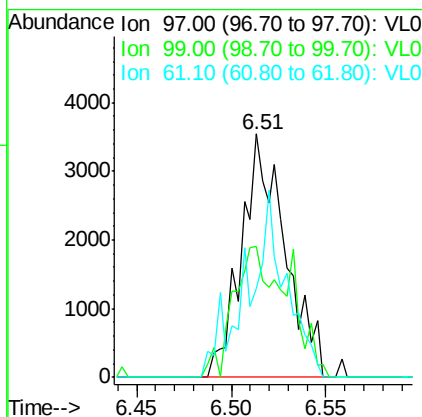
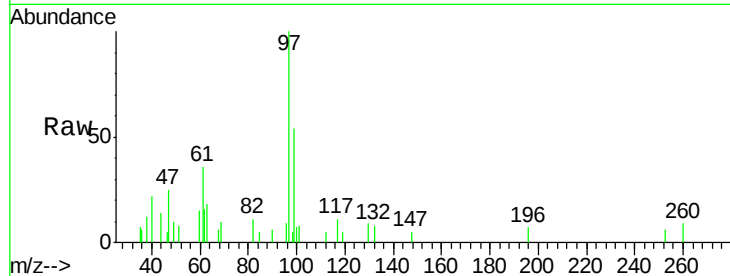
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	5672
Ion	Ratio	Lower	Upper
97	100		
99	68.2	52.2	78.2
61	0.0	44.5	66.7#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

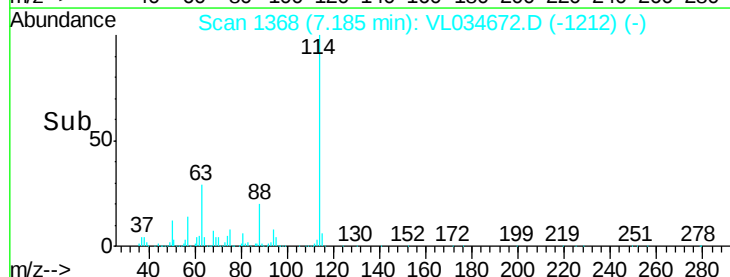
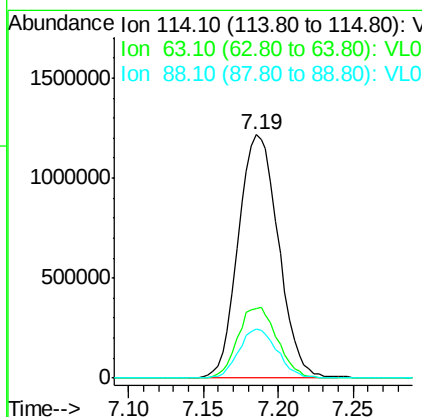
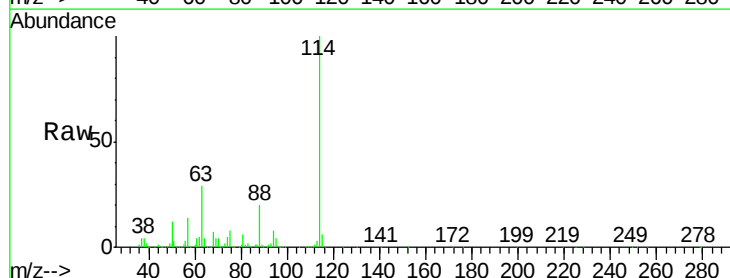
RT: 7.19 min Scan# 1368

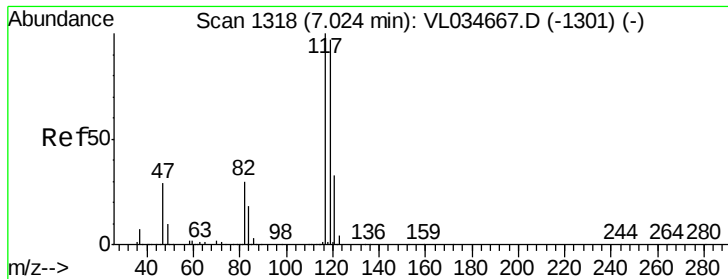
Delta R.T. -0.00 min

Lab File: VL034672.D

Acq: 25 Feb 2020 14:27

Tgt Ion:	114	Resp:	2272453
Ion	Ratio	Lower	Upper
114	100		
63	28.9	23.1	34.7
88	19.3	15.6	23.4





#35

Carbon Tetrachloride

Concen: 0.027 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL034672.D

Acq: 25 Feb 2020 14:27

Instrument :

MSVOA_L

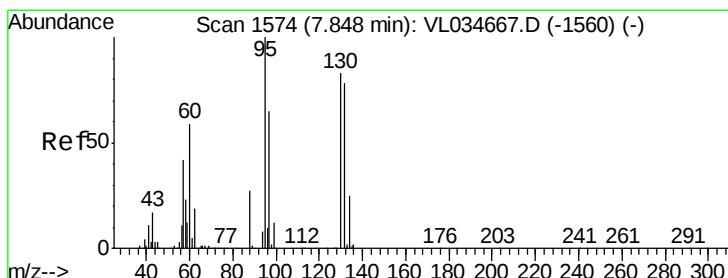
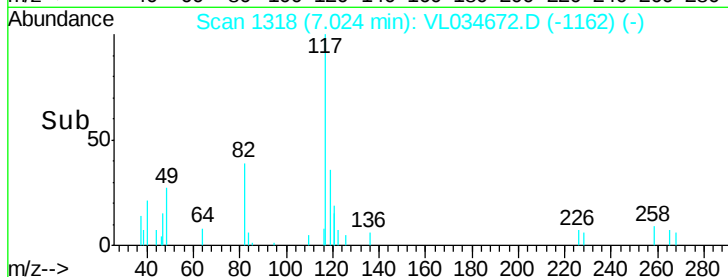
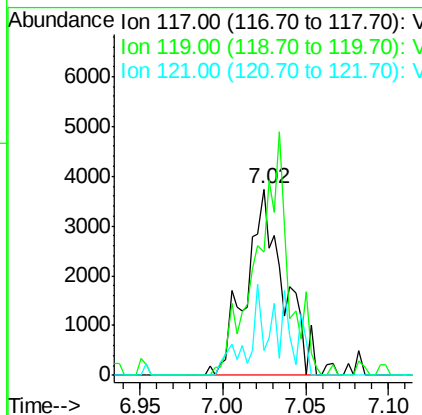
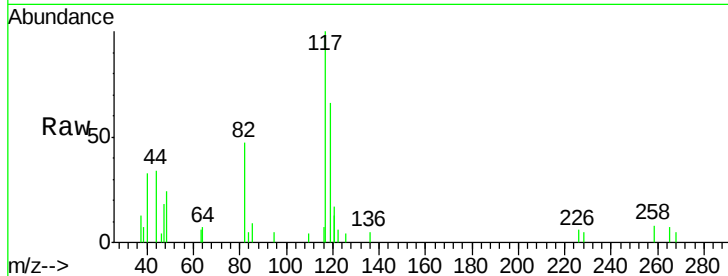
ClientSampleId :

VSTDIC0.03

Tot Ion:	117	Resp:	5920
Ion	Ratio	Lower	Upper
117	100		
119	66.2	77.2	115.8#
121	13.4	26.1	39.1#

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#38

Trichloroethene

Concen: 0.031 ppbv m

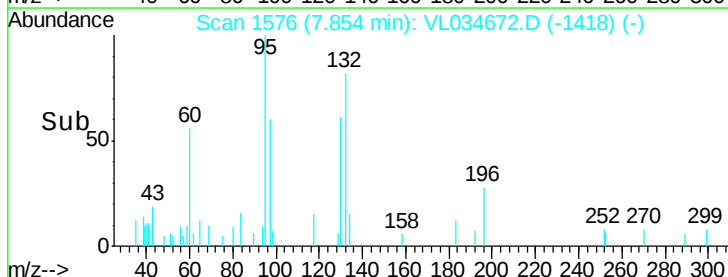
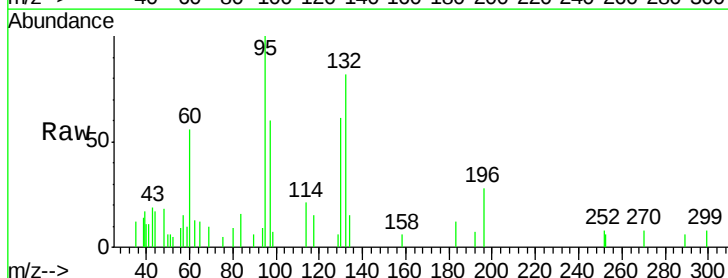
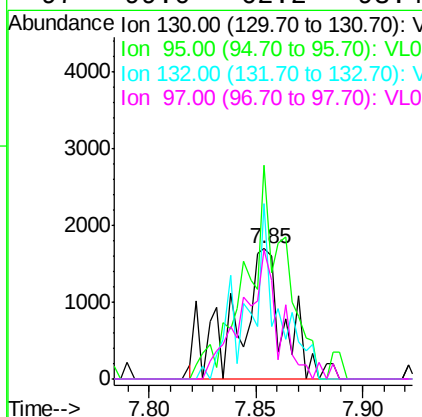
RT: 7.85 min Scan# 1576

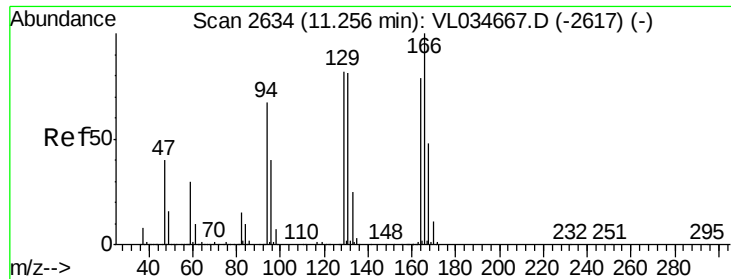
Delta R.T. 0.01 min

Lab File: VL034672.D

Acq: 25 Feb 2020 14:27

Tgt Ion:	130	Resp:	2656
Ion	Ratio	Lower	Upper
130	100		
95	164.1	96.1	144.1#
132	134.5	74.6	112.0#
97	99.0	62.2	93.4#





#52

Tetrachloroethene

Concen: 0.030 ppbv m

RT: 11.27 min Scan# 2638

Delta R.T. 0.01 min

Lab File: VL034672.D

Acq: 25 Feb 2020 14:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 2442

Ion Ratio Lower Upper

164 100

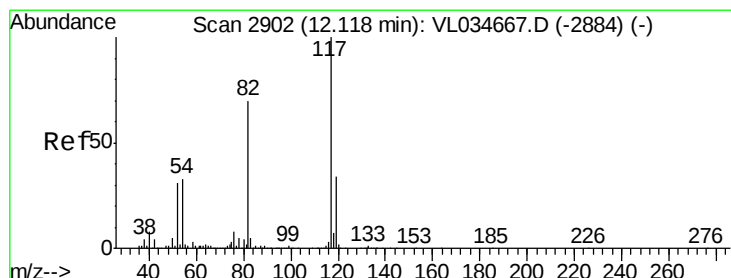
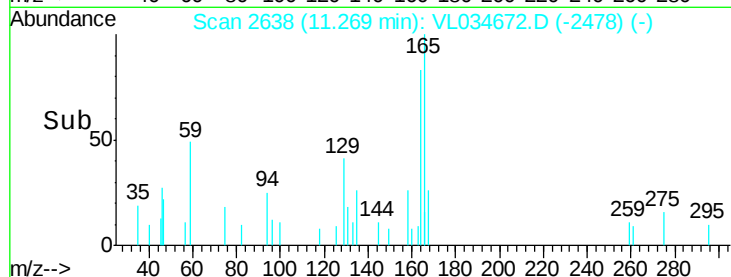
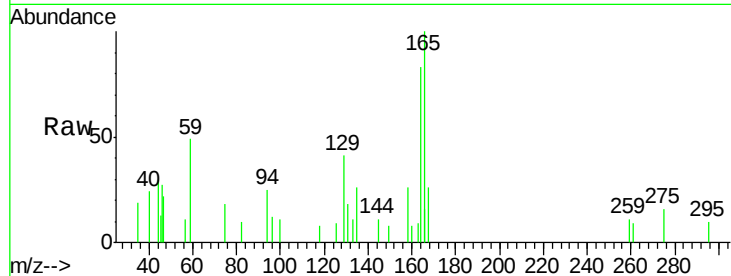
166 19.1 101.4 152.2#

129 48.9 83.5 125.3#

131 21.2 83.0 124.4#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL034672.D

Acq: 25 Feb 2020 14:27

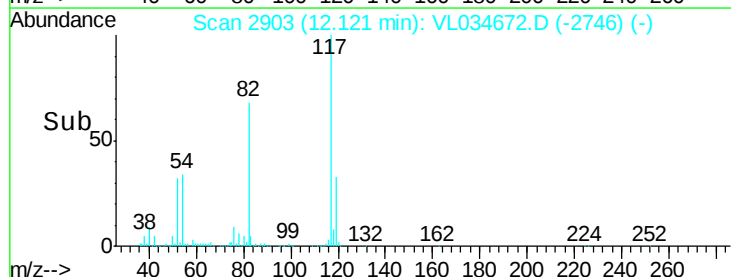
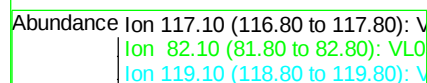
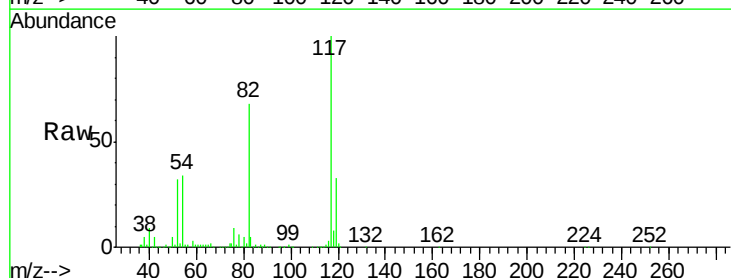
Tgt Ion:117 Resp: 2268106

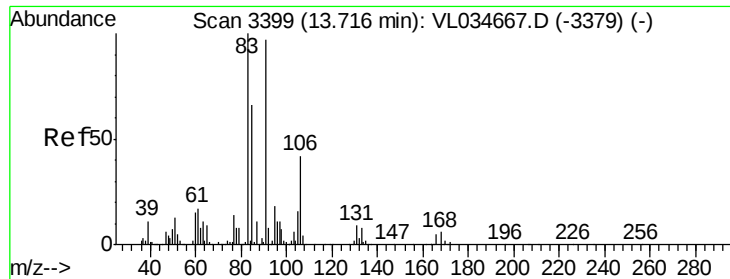
Ion Ratio Lower Upper

117 100

82 69.3 54.2 81.4

119 32.6 44.2 66.2#





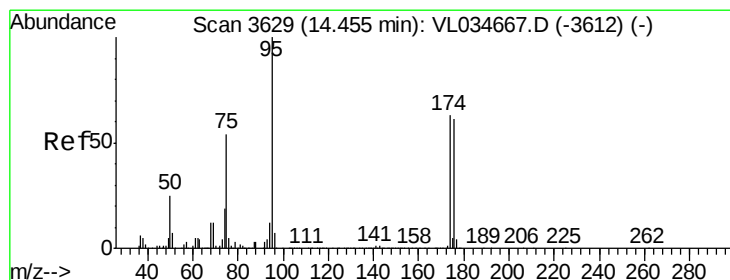
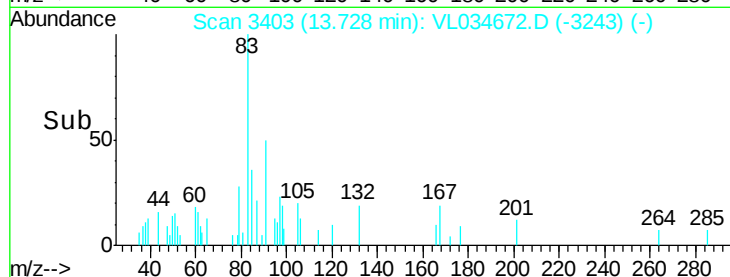
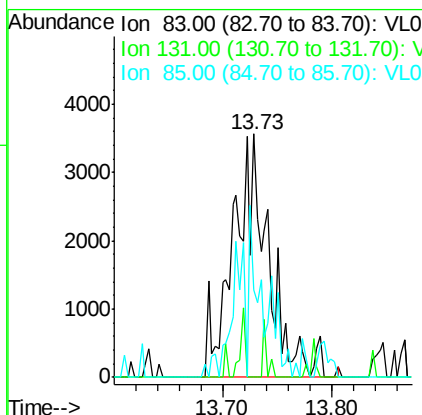
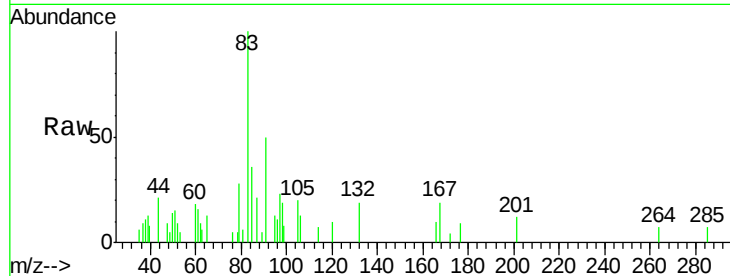
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.039 ppbv m
 RT: 13.73 min Scan# 3403
 Delta R.T. 0.01 min
 Lab File: VL034672.D
 Acq: 25 Feb 2020 14:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
83	100		
131	4.7	4.5	13.4
85	0.0	32.6	98.0#

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.942 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.01 min
 Lab File: VL034672.D
 Acq: 25 Feb 2020 14:27

Tgt Ion	Ratio	Lower	Upper
95	100		
174	62.4	51.2	76.8
175	4.6	3.8	5.6

