

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034052.D
 Acq On : 30 Jul 2019 4:41
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

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 8/2/2019 9:37:38 AM

Quant Time: Jul 30 05:36:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 05:36:38 2019
 QLast Update : Tue Jul 30 05:02:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1217054	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4073381	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2757391	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2276617	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	10031	0.100	ppbv	# 77
32) 1,1,1-Trichloroethane	6.57	97	23236m	0.096	ppbv	
35) Carbon Tetrachloride	7.09	117	31580m	0.103	ppbv	
38) Trichloroethene	7.91	130	8465m	0.063	ppbv	
52) Tetrachloroethene	11.32	164	9993m	0.077	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.78	83	22946m	0.100	ppbv	

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

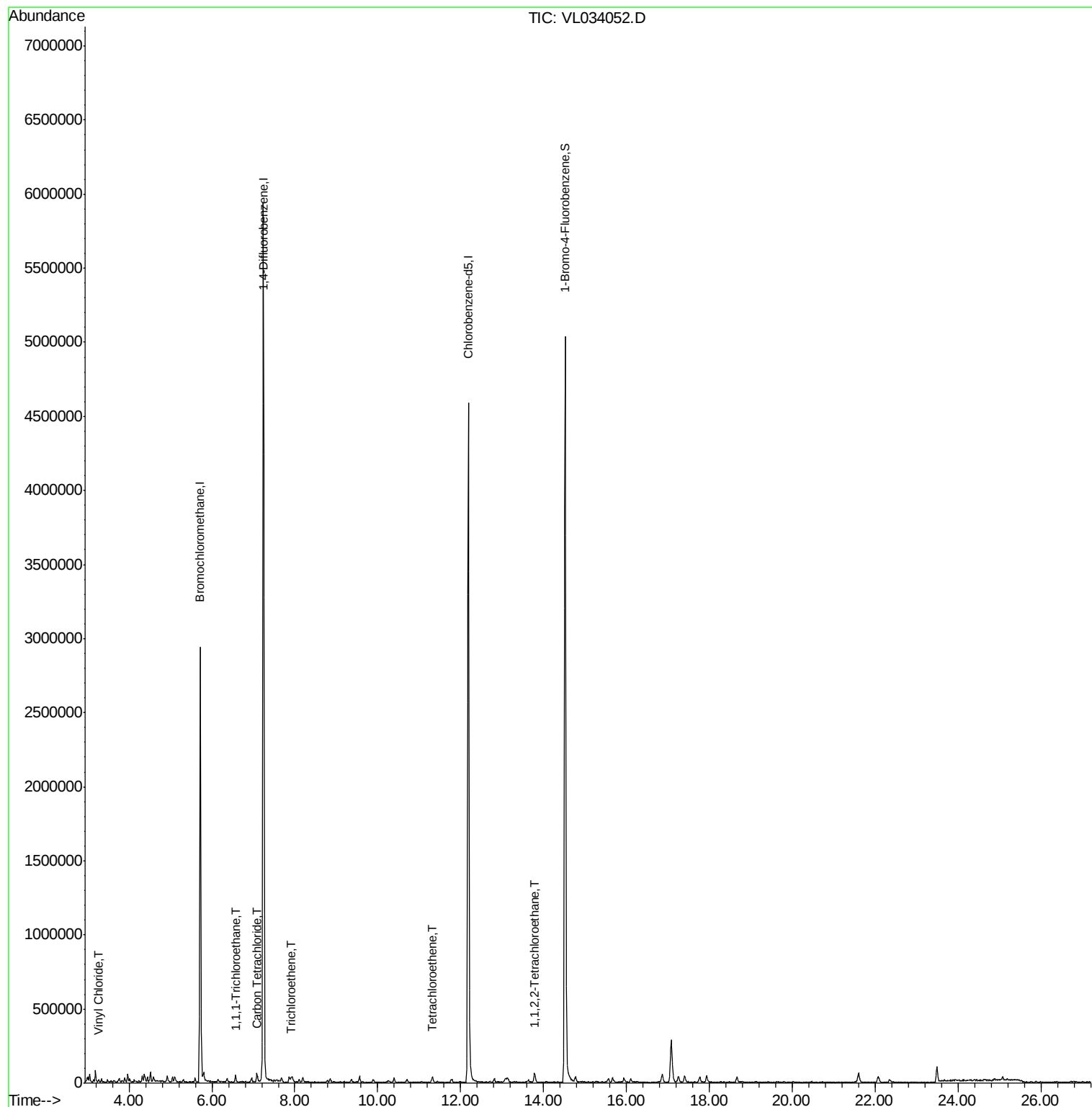
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
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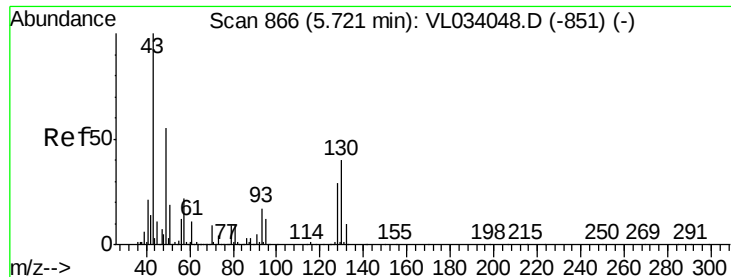
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Time: Jul 30 05:36:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul
QLast Update : Tue Jul 30 05:02:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.01 min

Lab File: VL034052.D

Acq: 30 Jul 2019 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1217054

Ion Ratio Lower Upper

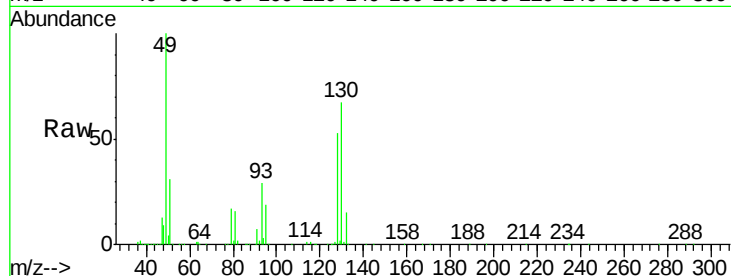
49 100

128 56.6 27.0 81.0

130 72.2 35.0 105.0

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.71

800000

600000

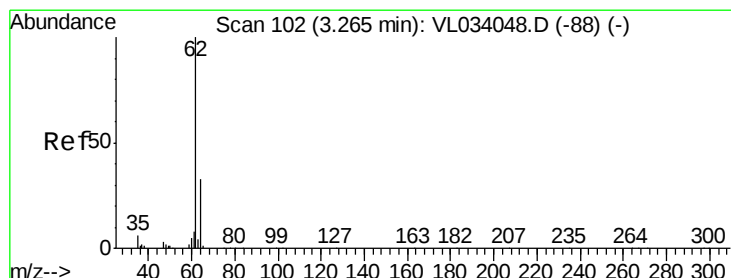
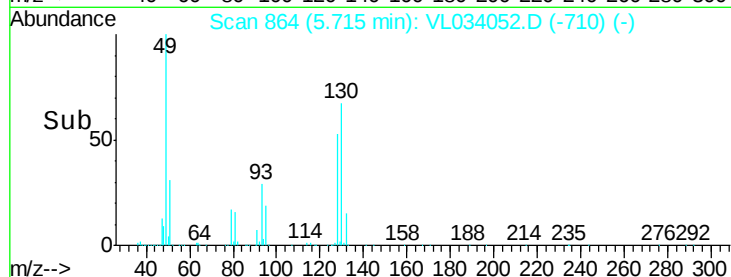
400000

200000

0

Time-->

5.65 5.70 5.75 5.80



#5

Vinyl Chloride

Concen: 0.100 ppbv

RT: 3.26 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034052.D

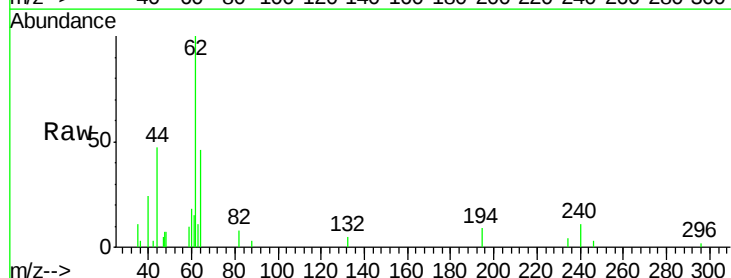
Acq: 30 Jul 2019 4:41

Tgt Ion: 62 Resp: 10031

Ion Ratio Lower Upper

62 100

64 46.0 26.5 39.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.26

8000

6000

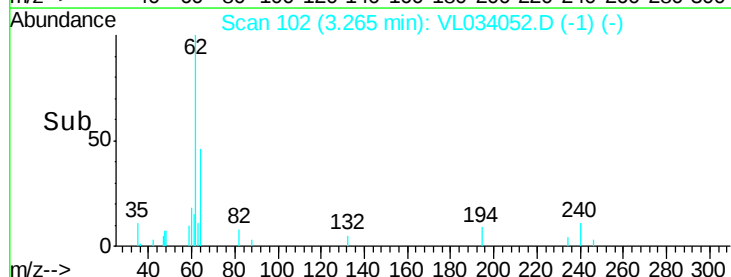
4000

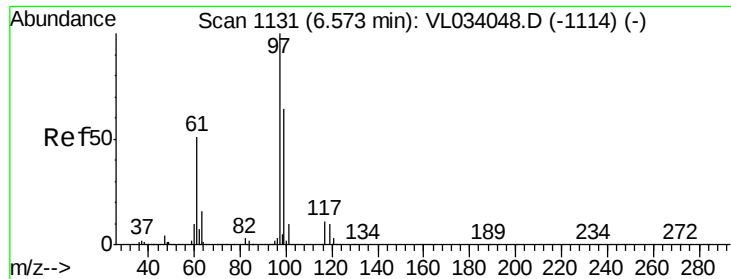
2000

0

Time-->

3.24 3.26 3.28 3.30





#32

1,1,1-Trichloroethane

Concen: 0.096 ppbv m

RT: 6.57 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VL034052.D

Acq: 30 Jul 2019 4:41

Instrument :

MSVOA_L

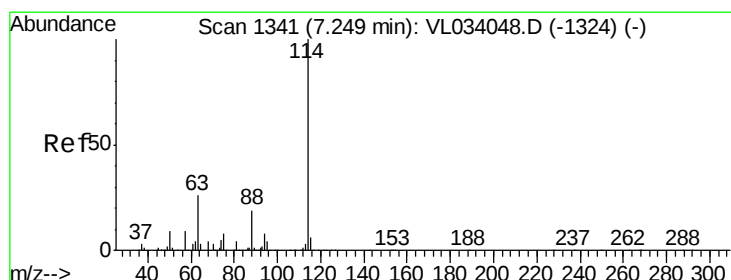
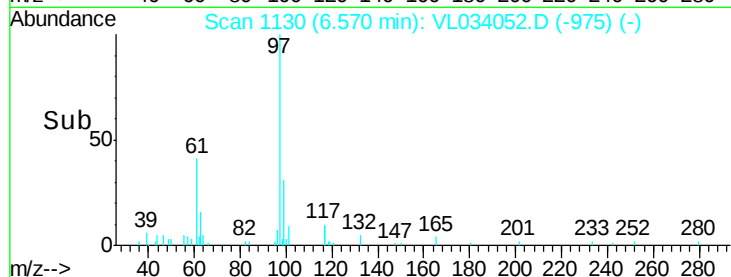
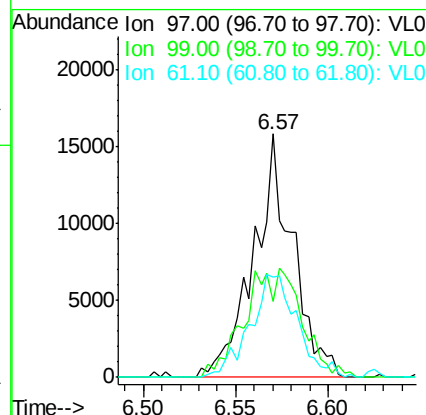
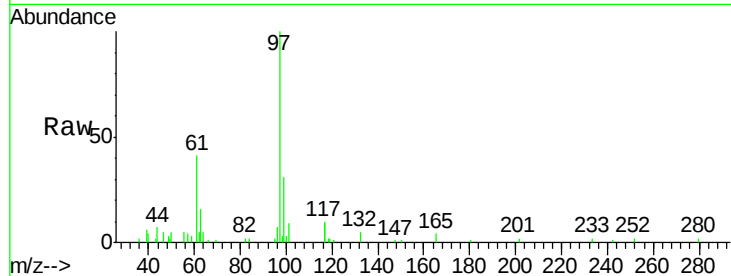
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	23236
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.0	76.6#
61	50.9	39.5	59.3

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

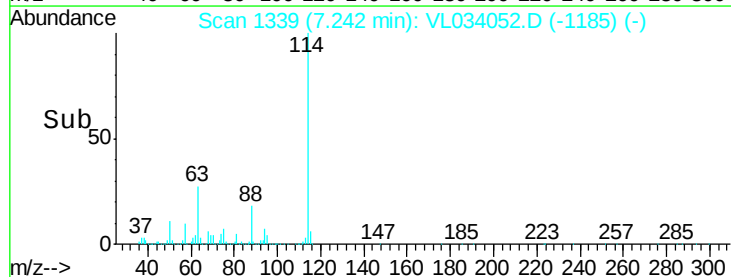
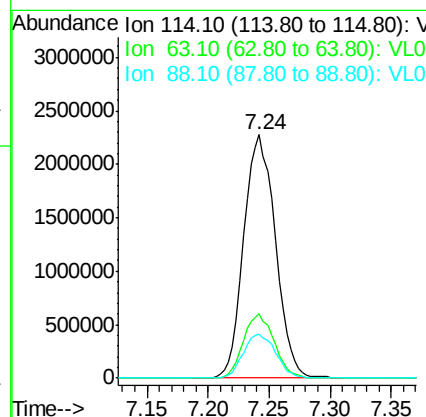
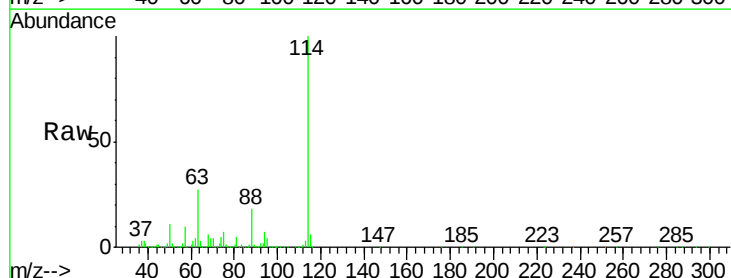
RT: 7.24 min Scan# 1339

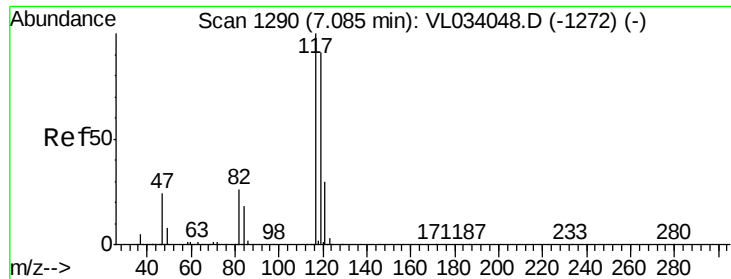
Delta R.T. -0.01 min

Lab File: VL034052.D

Acq: 30 Jul 2019 4:41

Tgt Ion:	114	Resp:	4073381
Ion Ratio	Lower	Upper	
114	100		
63	25.9	21.0	31.6
88	18.6	14.7	22.1





#35

Carbon Tetrachloride

Concen: 0.103 ppbv m

RT: 7.09 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VL034052.D

Acq: 30 Jul 2019 4:41

Instrument :

MSVOA_L

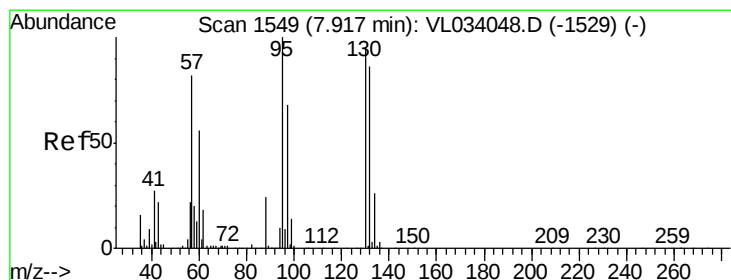
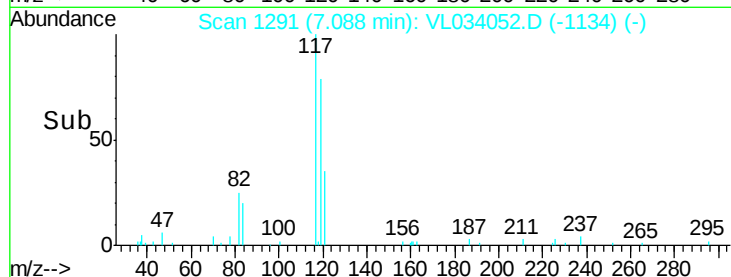
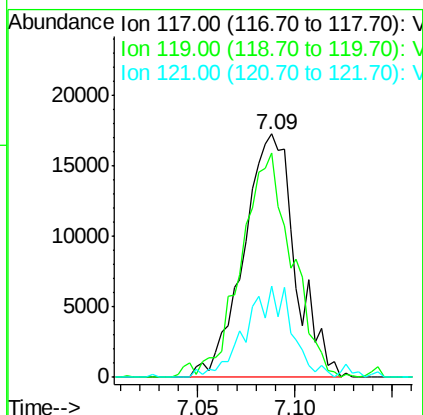
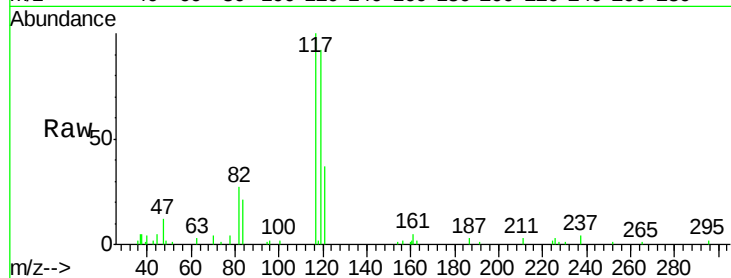
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	31580
Ion Ratio	Lower	Upper	
117	100		
119	92.2	73.2	109.8
121	37.3	24.0	36.0#

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#38

Trichloroethene

Concen: 0.063 ppbv m

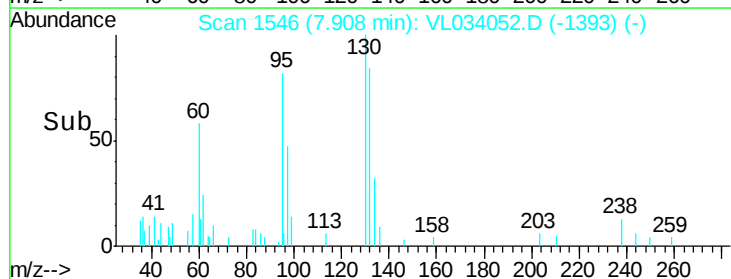
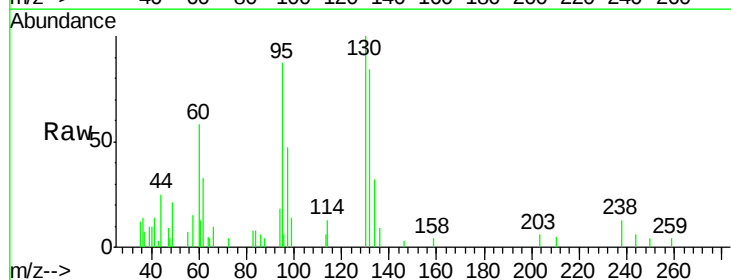
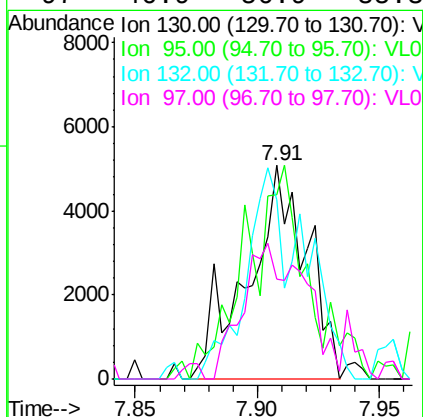
RT: 7.91 min Scan# 1546

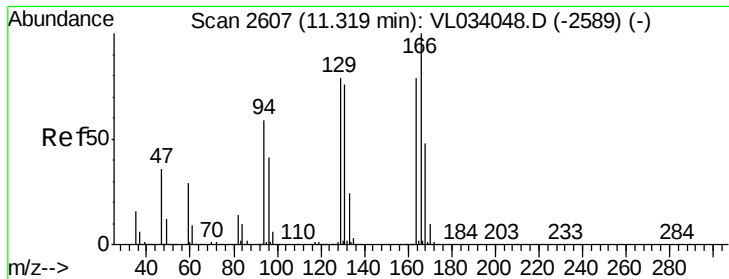
Delta R.T. -0.01 min

Lab File: VL034052.D

Acq: 30 Jul 2019 4:41

Tgt Ion:	130	Resp:	8465
Ion Ratio	Lower	Upper	
130	100		
95	86.5	84.1	126.1
132	83.7	72.7	109.1
97	46.9	56.9	85.3#





#52

Tetrachloroethene

Concen: 0.077 ppbv m

RT: 11.32 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VL034052.D

Acq: 30 Jul 2019 4:41

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 9993

Ion Ratio Lower Upper

164 100

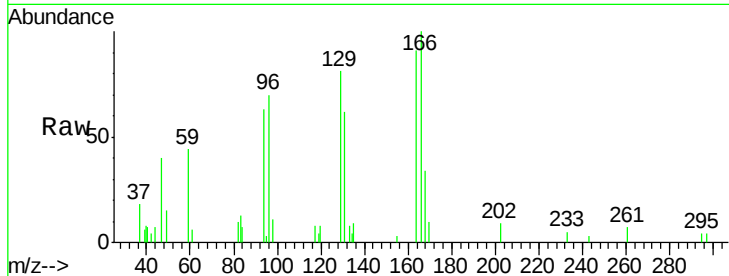
166 110.3 101.6 152.4

129 88.8 80.7 121.1

131 68.3 76.8 115.2#

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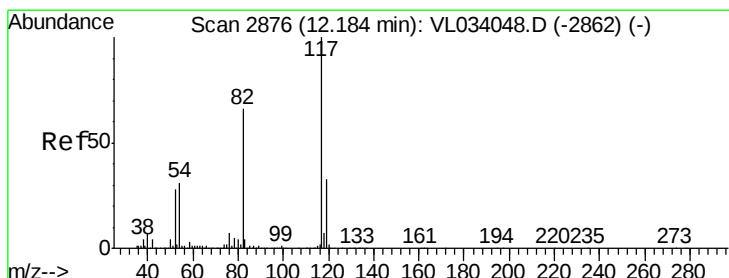
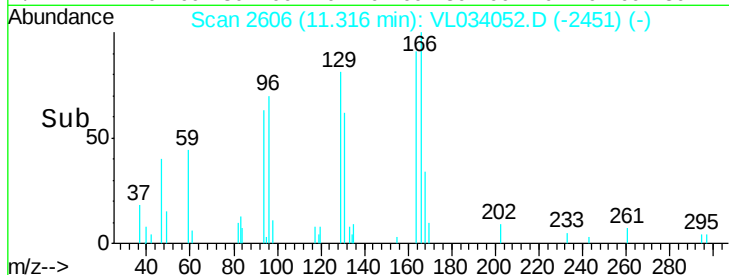
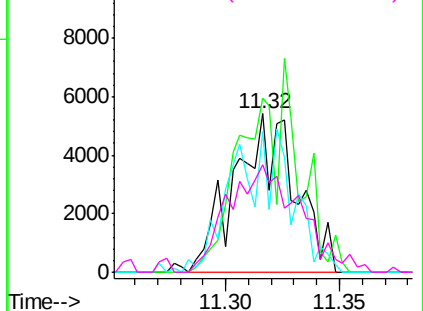


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2875

Delta R.T. -0.00 min

Lab File: VL034052.D

Acq: 30 Jul 2019 4:41

Tgt Ion:117 Resp: 2757391

Ion Ratio Lower Upper

117 100

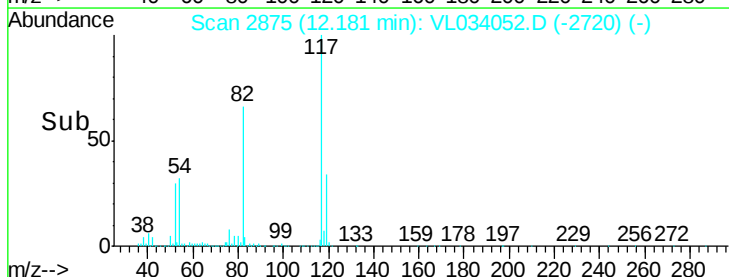
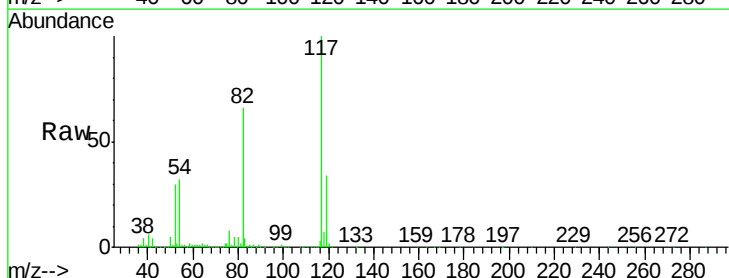
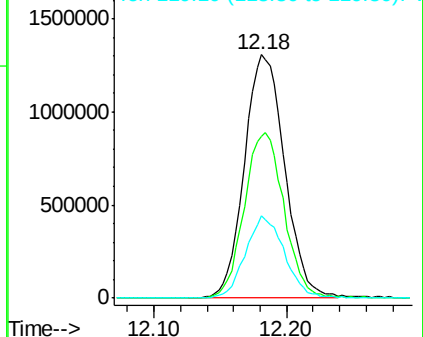
82 67.6 49.8 74.8

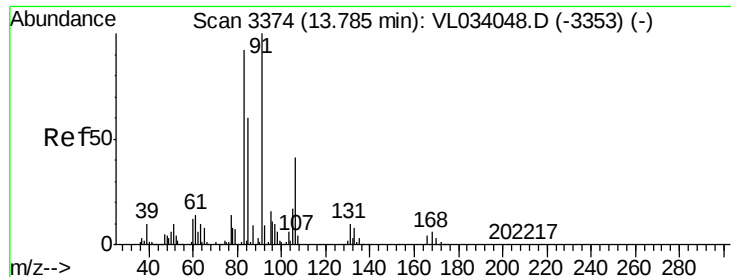
119 33.0 43.0 64.6#

Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





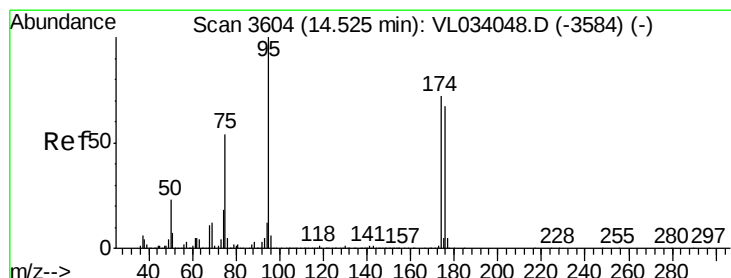
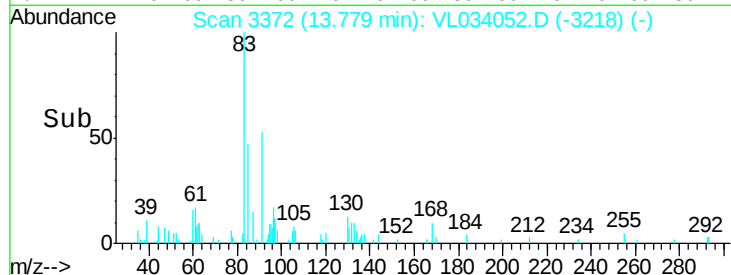
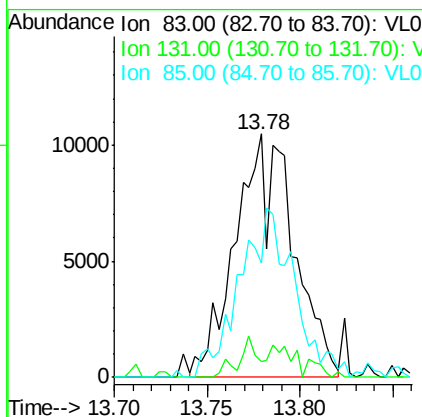
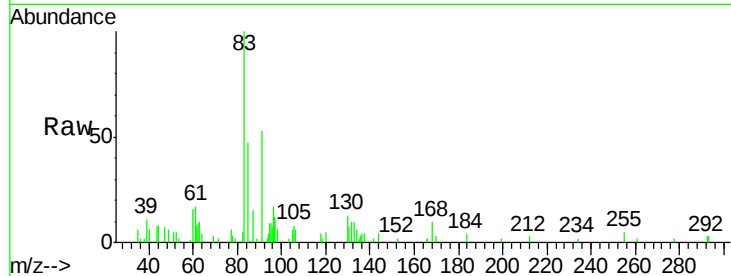
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.100 ppbv m
 RT: 13.78 min Scan# 3372
 Delta R.T. -0.01 min
 Lab File: VL034052.D
 Acq: 30 Jul 2019 4:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.4#
85	66.6	32.4	97.0

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.060 ppbv
 RT: 14.52 min Scan# 3602
 Delta R.T. -0.01 min
 Lab File: VL034052.D
 Acq: 30 Jul 2019 4:41

Tgt Ion	Ratio	Lower	Upper
95	100		
174	72.3	57.6	86.4
175	5.1	4.1	6.1

