

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034174.D
 Acq On : 17 Sep 2019 6:47
 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

MMDadoda
 9/20/2019 12:44:02 AM

Quant Time: Sep 17 07:22:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 2019
 QLast Update : Tue Sep 17 05:58:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1310940	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2157617	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2179976	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1928838	10.73	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.25	62	7762	0.093	ppbv	90
32) 1,1,1-Trichloroethane	6.56	97	17533m	0.089	ppbv	
35) Carbon Tetrachloride	7.07	117	17748m	0.104	ppbv	
38) Trichloroethene	7.89	130	9361m	0.101	ppbv	
52) Tetrachloroethene	11.30	164	6953m	0.080	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.76	83	22893m	0.096	ppbv	

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

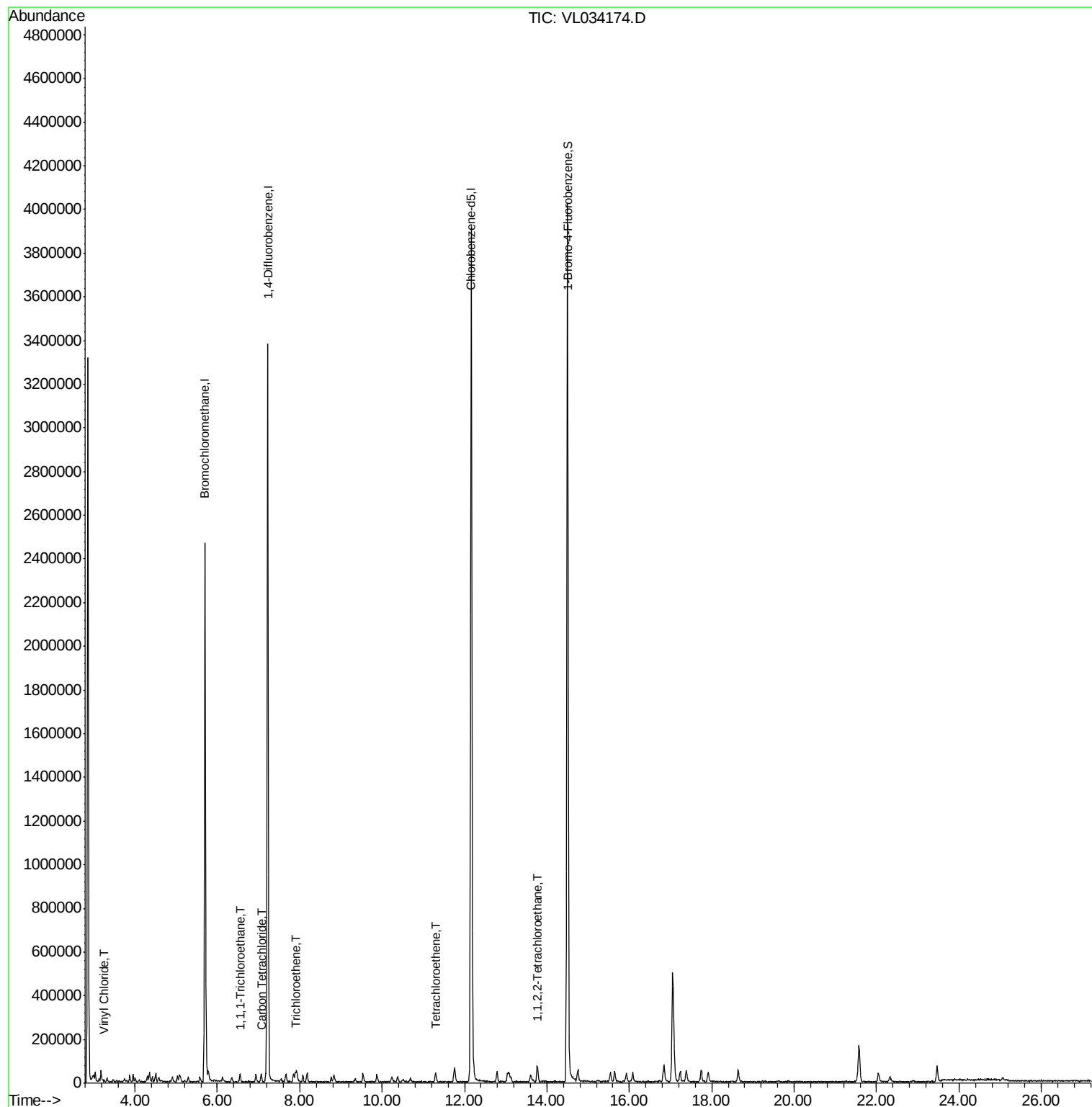
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
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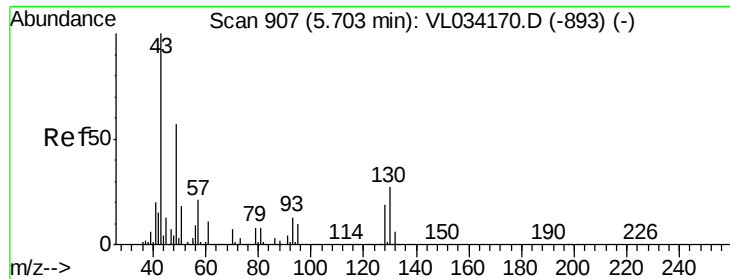
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QLast Update : Tue Sep 17 05:58:04 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1310940

Ion Ratio Lower Upper

49 100

128 35.6 17.6 52.9

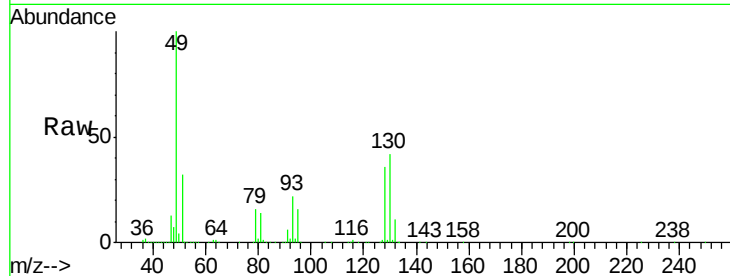
130 43.8 22.3 66.9

Manual Integrations

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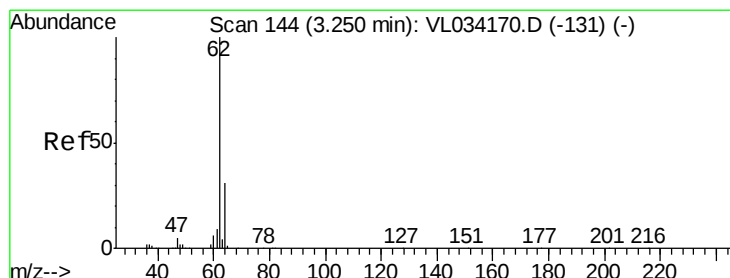
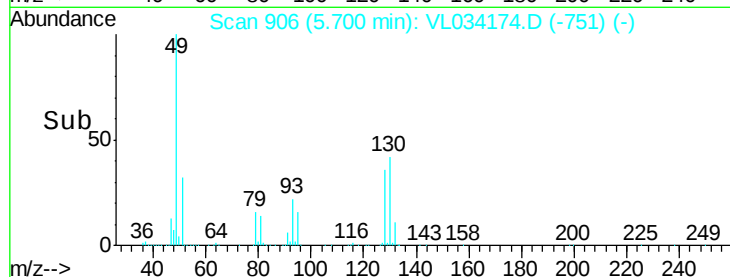
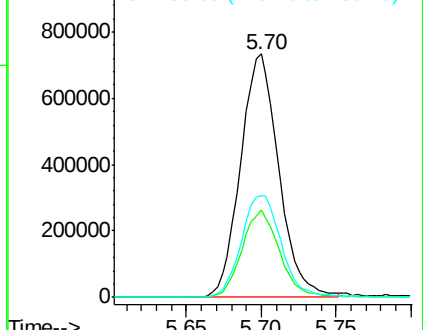
9/20/2019 12:44:02 AM



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

Vinyl Chloride

Concen: 0.093 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL034174.D

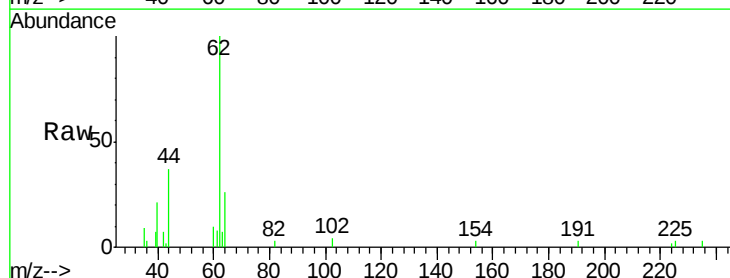
Acq: 17 Sep 2019 6:47

Tgt Ion: 62 Resp: 7762

Ion Ratio Lower Upper

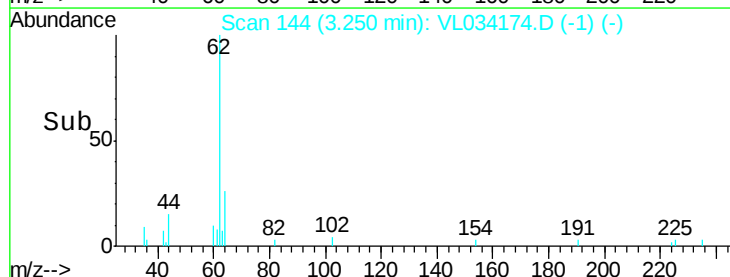
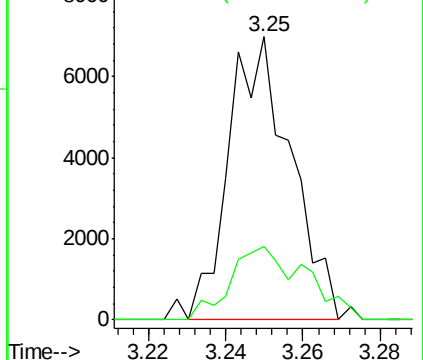
62 100

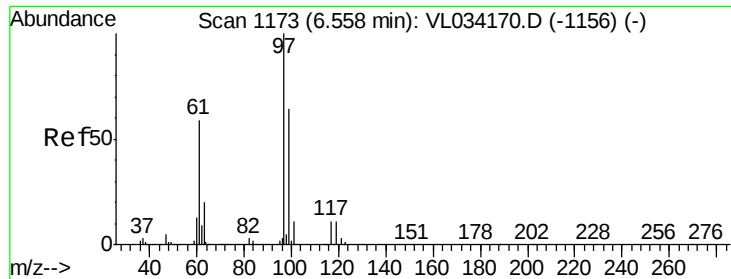
64 26.0 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.089 ppbv m

RT: 6.56 min Scan# 1172

Delta R.T. -0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

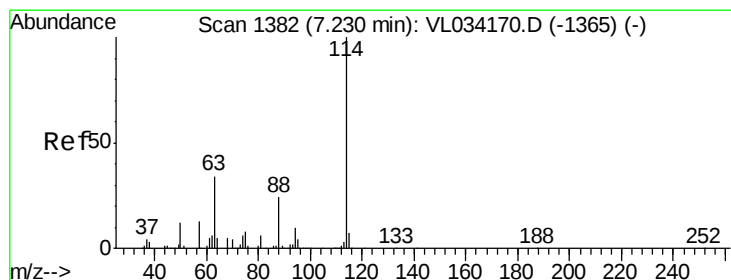
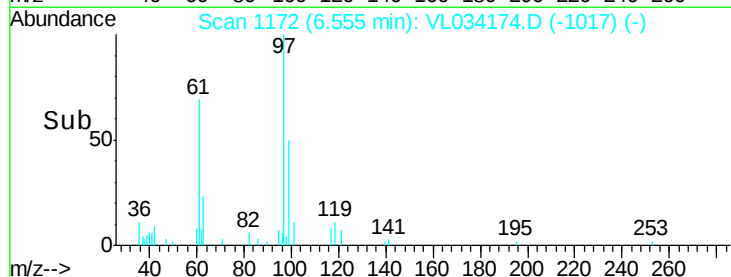
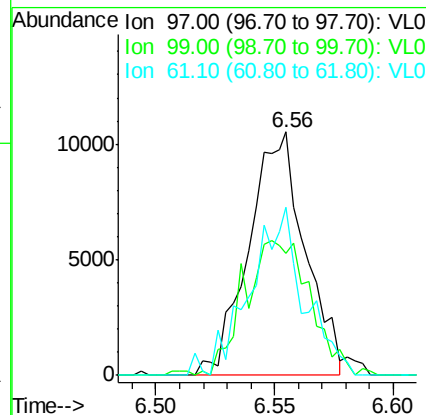
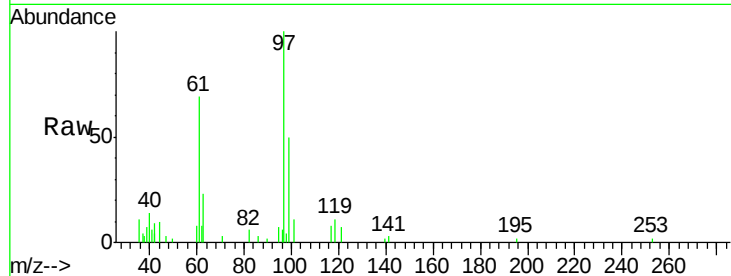
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	17533
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.4	77.2#
61	66.3	48.4	72.6

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

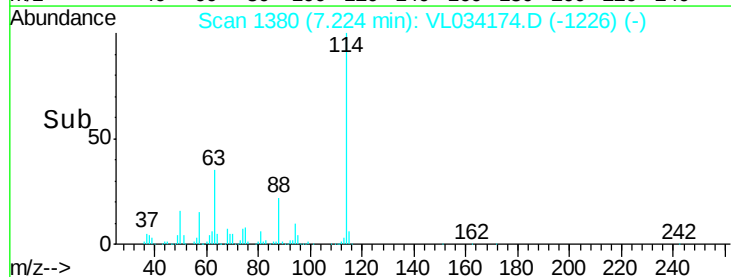
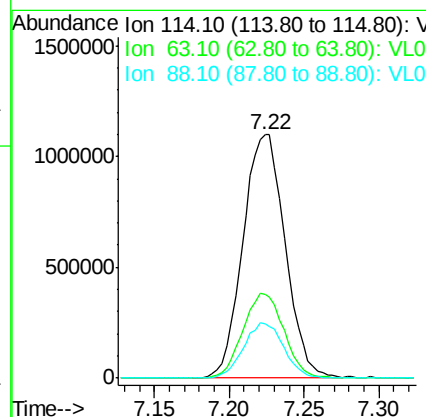
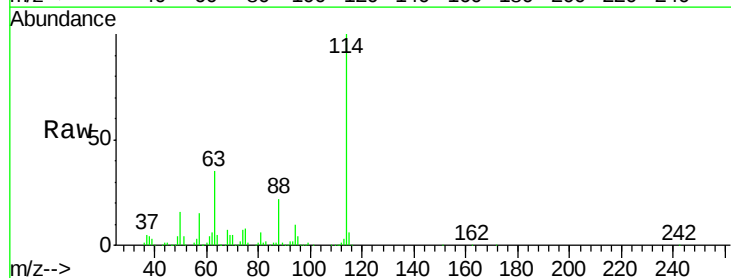
RT: 7.22 min Scan# 1380

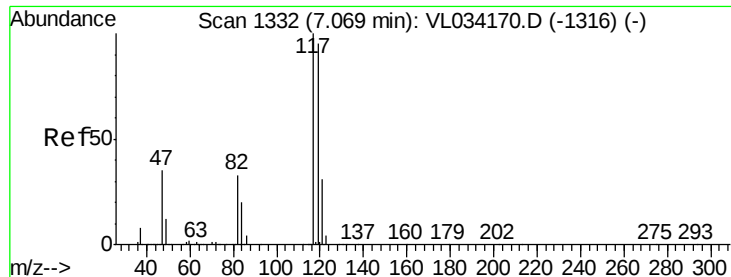
Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Tgt Ion:	114	Resp:	2157617
Ion Ratio	Lower	Upper	
114	100		
63	34.1	27.8	41.6
88	21.6	17.1	25.7





#35

Carbon Tetrachloride

Concen: 0.104 ppbv m

RT: 7.07 min Scan# 1332

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

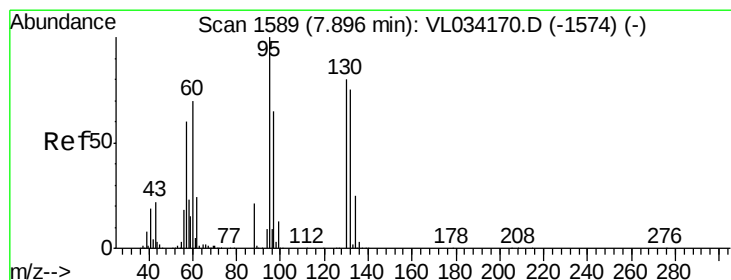
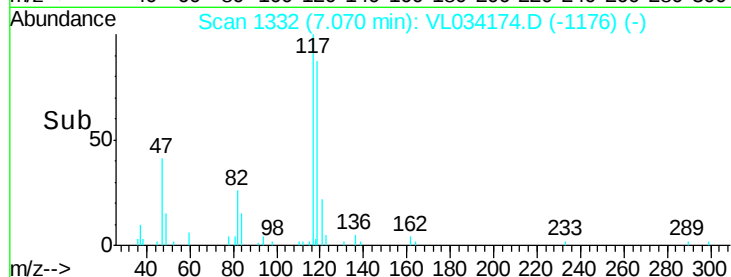
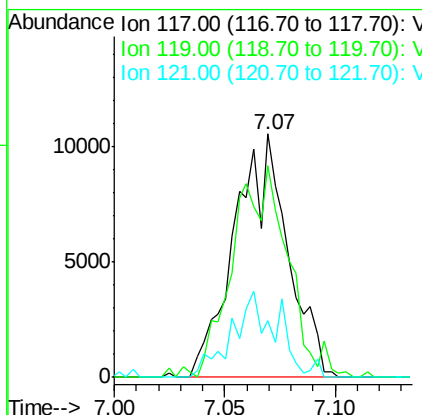
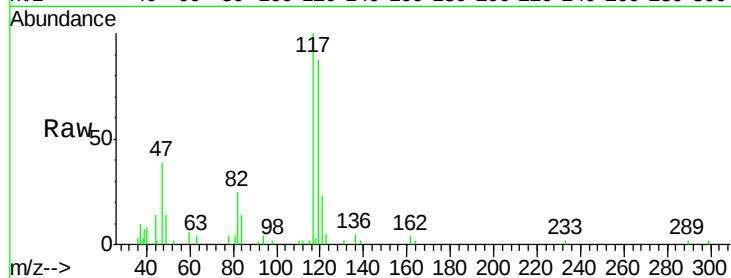
ClientSampled :

VSTDIC0.1

Tot Ion:	117	Resp:	17748
Ion Ratio	Lower	Upper	
117	100		
119	86.7	75.8	113.6
121	23.3	25.0	37.6#

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#38

Trichloroethene

Concen: 0.101 ppbv m

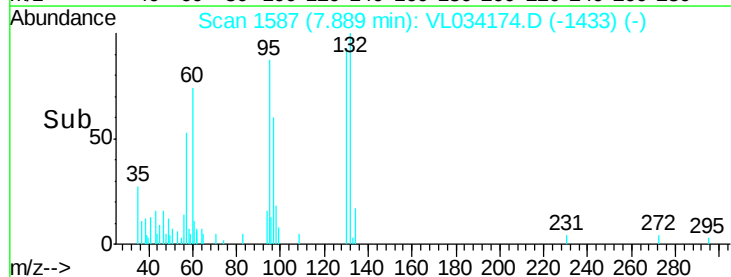
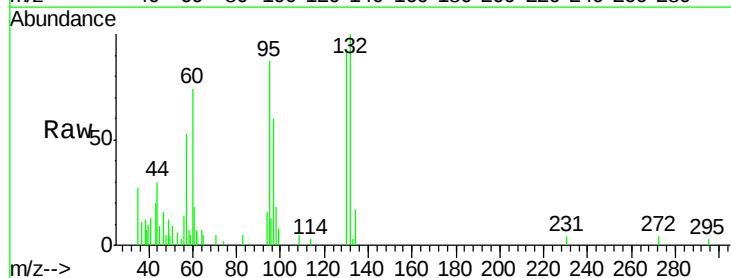
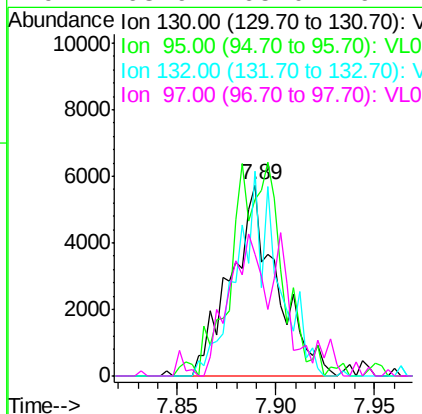
RT: 7.89 min Scan# 1587

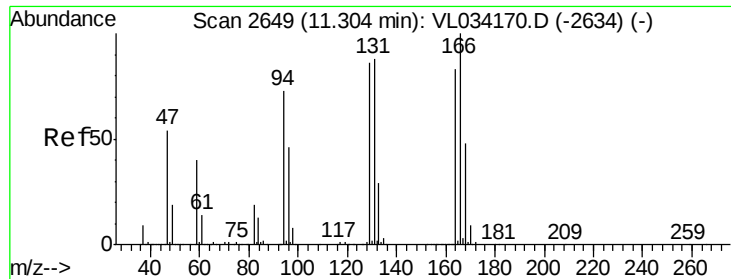
Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Tgt Ion:	130	Resp:	9361
Ion Ratio	Lower	Upper	
130	100		
95	92.7	99.8	149.6#
132	107.0	75.2	112.8
97	63.9	65.0	97.4#





#52

Tetrachloroethene

Concen: 0.080 ppbv m

RT: 11.30 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 6953

Ion Ratio Lower Upper

164 100

166 106.0 96.7 145.1

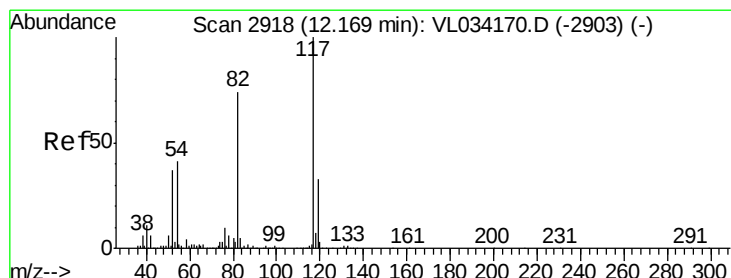
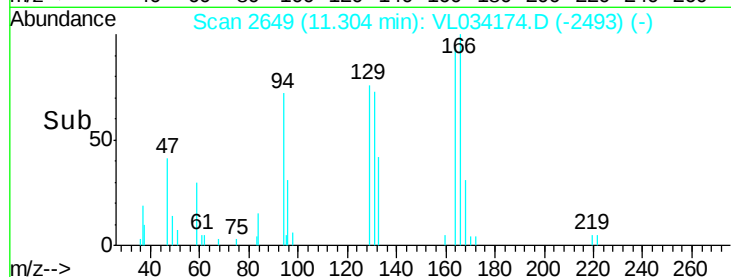
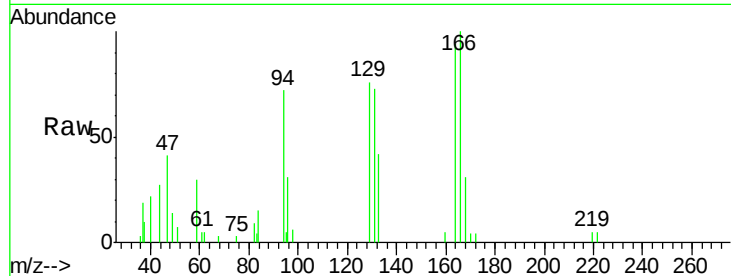
129 80.4 82.8 124.2#

131 77.5 85.0 127.6#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.16 min Scan# 2916

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

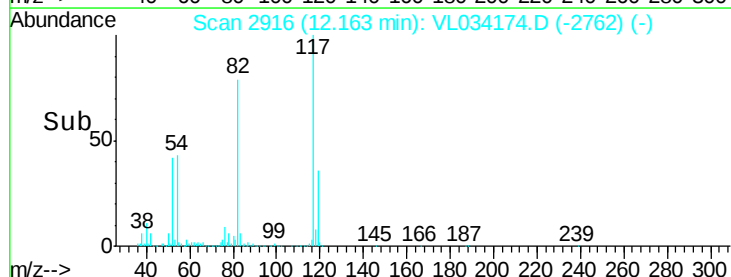
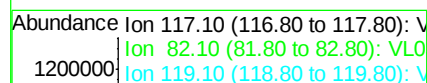
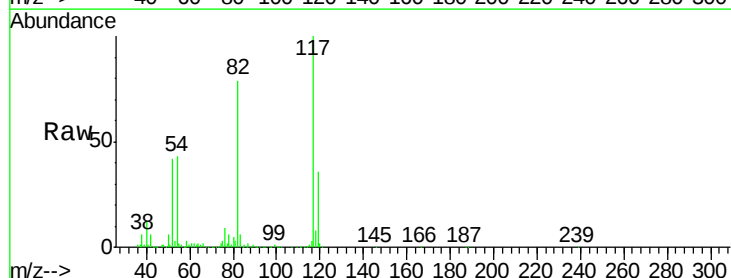
Tgt Ion:117 Resp: 2179976

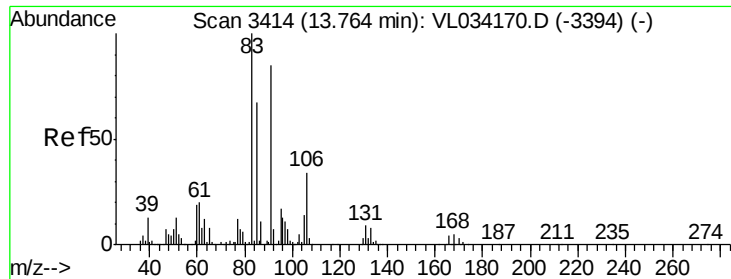
Ion Ratio Lower Upper

117 100

82 77.2 58.2 87.4

119 33.4 23.7 35.5





#63

1,1,2,2-Tetrachloroethane

Concen: 0.096 ppbv m

RT: 13.76 min Scan# 3414

Delta R.T. 0.00 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Instrument :

MSVOA_L

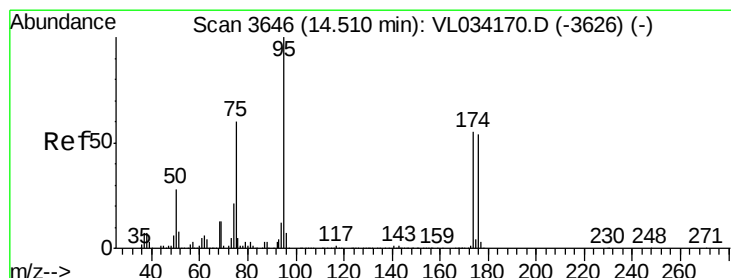
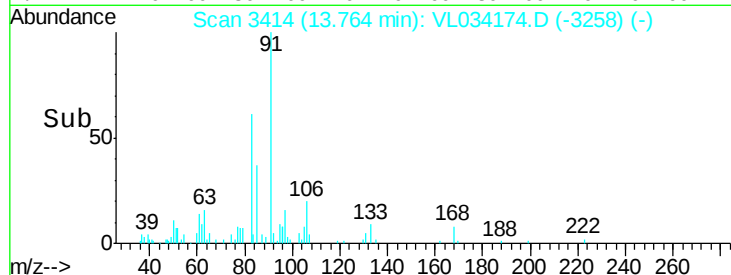
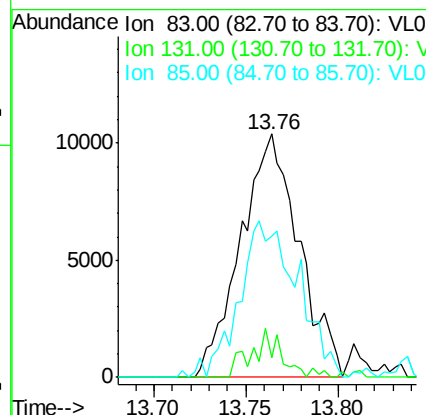
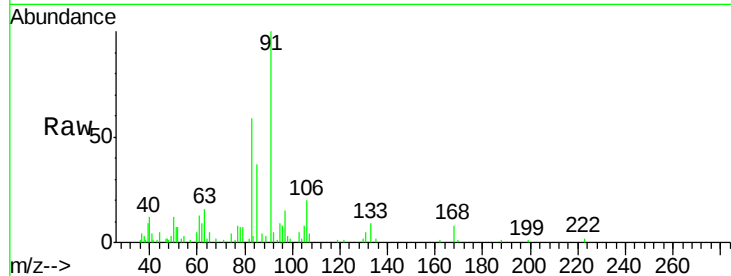
ClientSampleId :

VSTDIC0.1

Tot Ion:	83	Resp:	22893
Ion Ratio	Lower	Upper	
83	100		
131	10.4	4.3	12.8
85	65.3	32.8	98.4

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.730 ppbv

RT: 14.50 min Scan# 3643

Delta R.T. -0.01 min

Lab File: VL034174.D

Acq: 17 Sep 2019 6:47

Tgt Ion:	95	Resp:	1928838
Ion Ratio	Lower	Upper	
95	100		
174	56.7	45.1	67.7
175	4.2	3.3	4.9

