

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033154.D
 Acq On : 4 Feb 2019 12:34
 Operator : SY/AP
 Sample : VSTDICC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:27:23 AM

Quant Time: Feb 04 14:30:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 0
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1208137	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3461942	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3239141	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2574689	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.30	62	7911	0.065	ppbv #	68
32) 1,1,1-Trichloroethane	6.62	97	17975m	0.080	ppbv	
35) Carbon Tetrachloride	7.13	117	21197m	0.082	ppbv	
38) Trichloroethene	7.96	130	13320m	0.085	ppbv	
52) Tetrachloroethene	11.38	164	12034m	0.082	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.84	83	24865	0.079	ppbv #	84

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

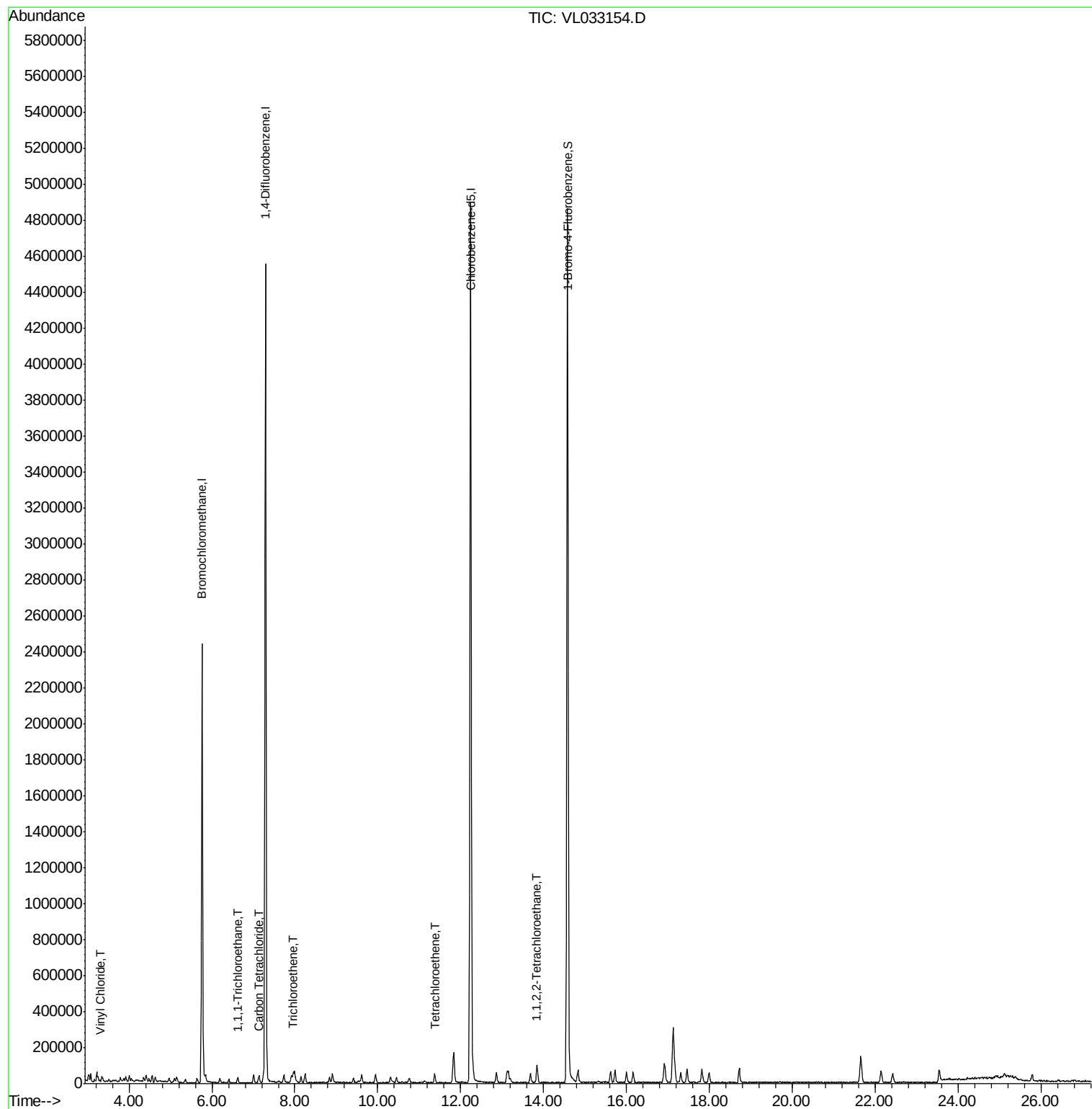
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020419\
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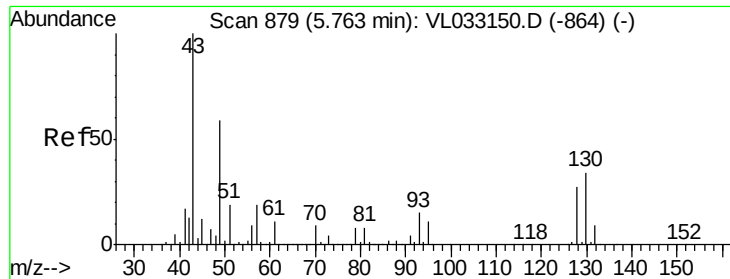
Instrument :
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033154.D

Acq: 4 Feb 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1208137

Ion Ratio Lower Upper

49 100

128 45.2 23.2 69.5

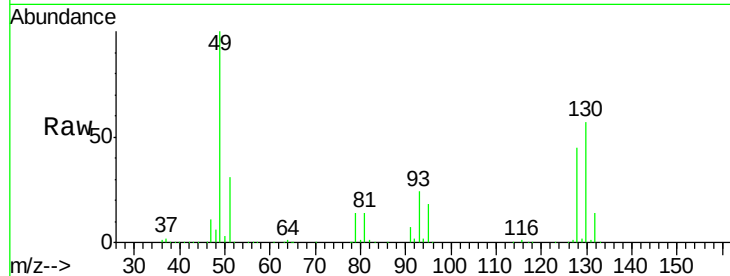
130 57.4 29.5 88.6

Manual Integrations

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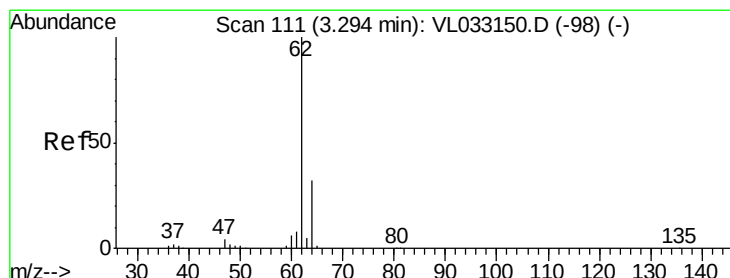
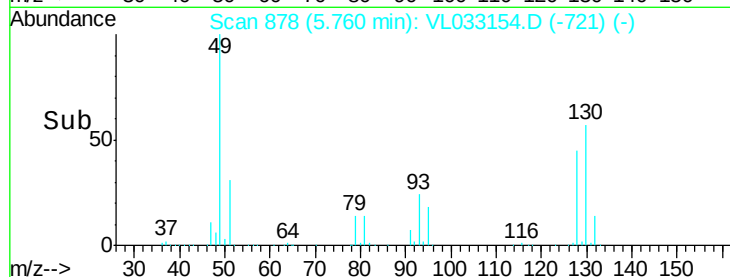
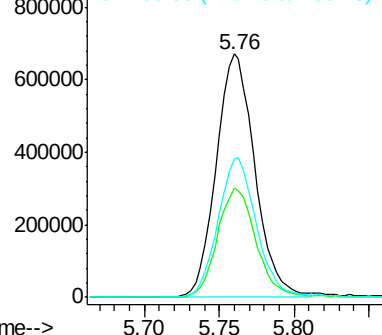
2/5/2019 10:27:23 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.065 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL033154.D

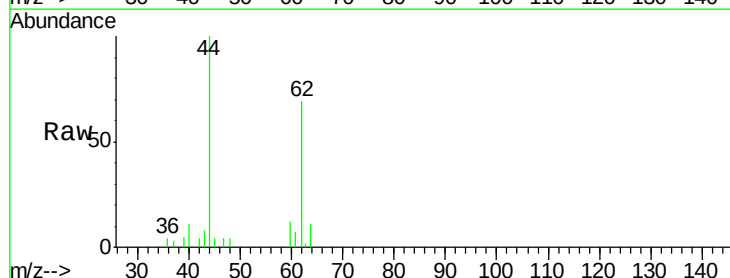
Acq: 4 Feb 2019 12:34

Tgt Ion: 62 Resp: 7911

Ion Ratio Lower Upper

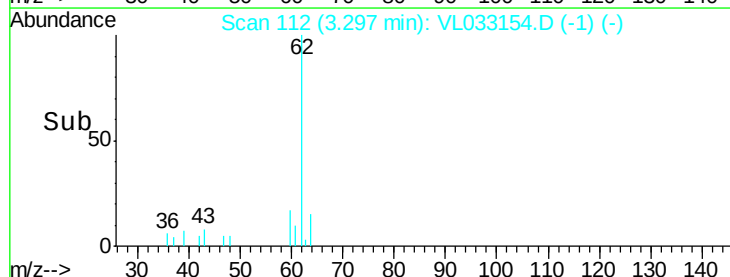
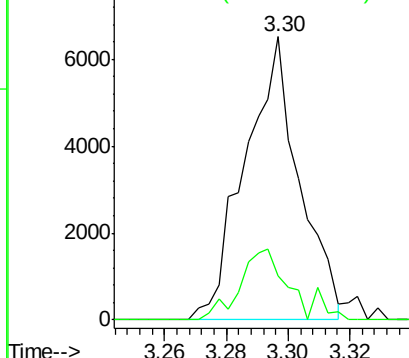
62 100

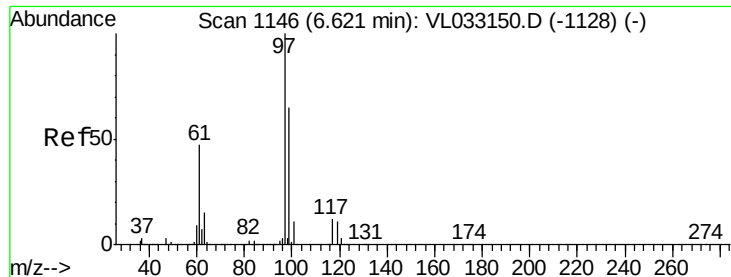
64 15.0 26.3 39.5#



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: 0.080 ppbv m

RT: 6.62 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VL033154.D

Acq: 4 Feb 2019 12:34

Instrument :

MSVOA_L

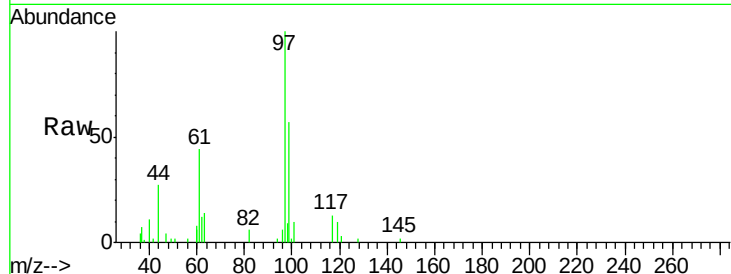
ClientSampleId :

VSTDIC0.1

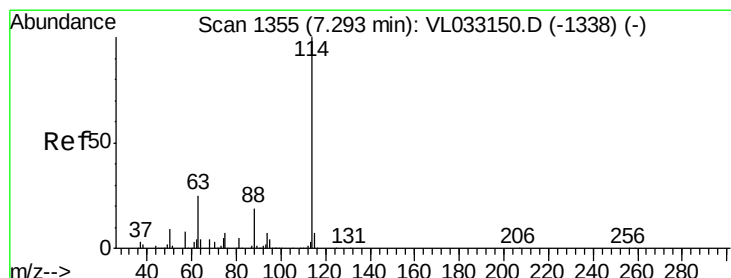
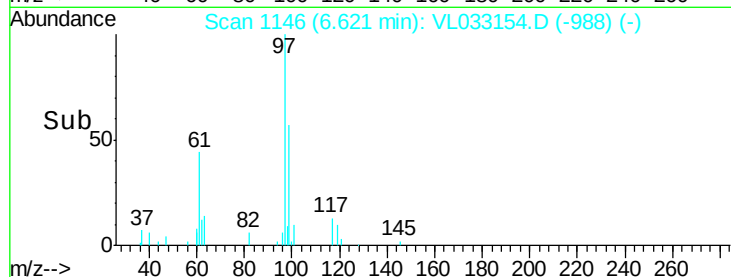
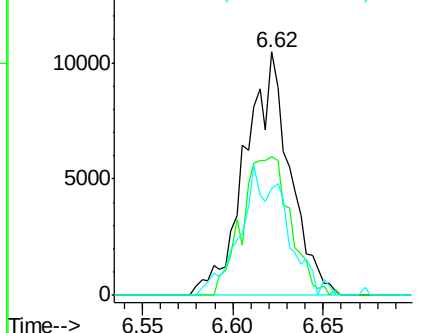
Tot Ion:	97	Resp:	17975
Ion	Ratio	Lower	Upper
97	100		
99	61.5	65.1	97.7#
61	0.0	47.7	71.5#

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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

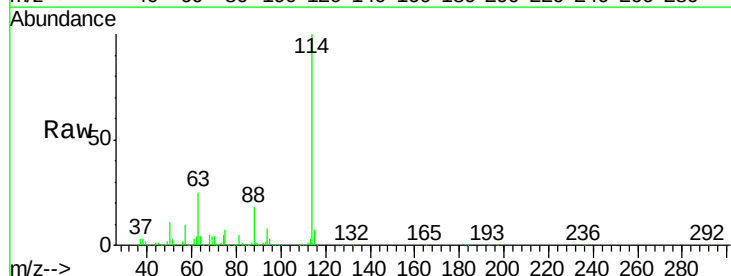
RT: 7.29 min Scan# 1354

Delta R.T. 0.00 min

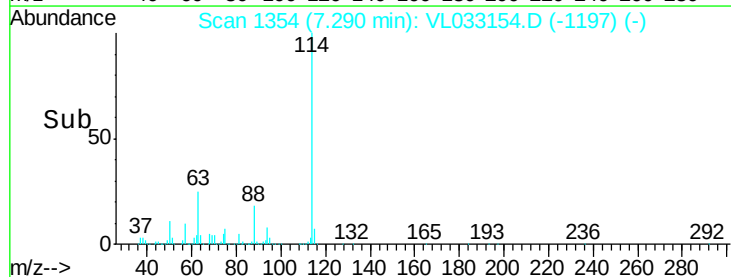
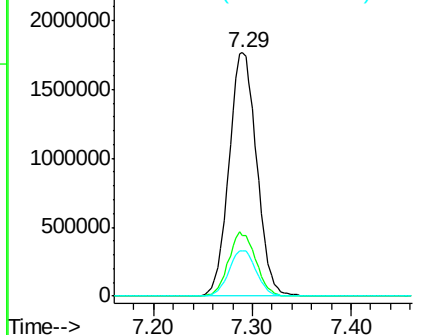
Lab File: VL033154.D

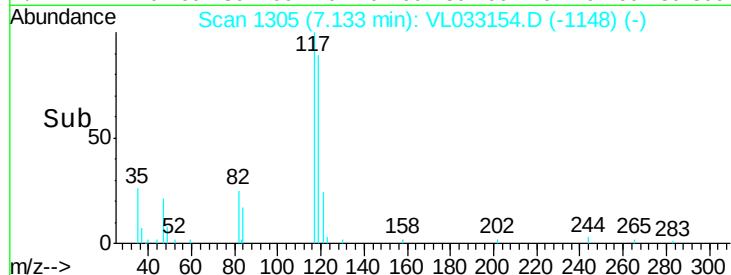
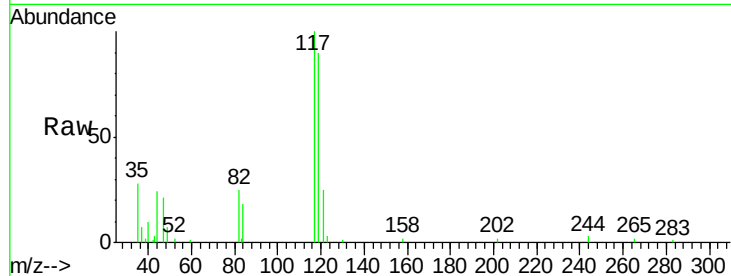
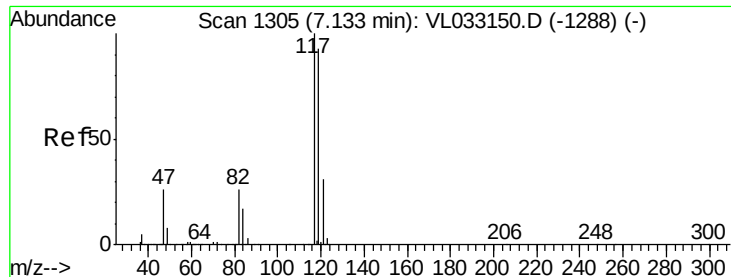
Acq: 4 Feb 2019 12:34

Tgt Ion:	114	Resp:	3461942
Ion	Ratio	Lower	Upper
114	100		
63	25.8	20.0	30.0
88	18.6	14.4	21.6



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.082 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033154.D

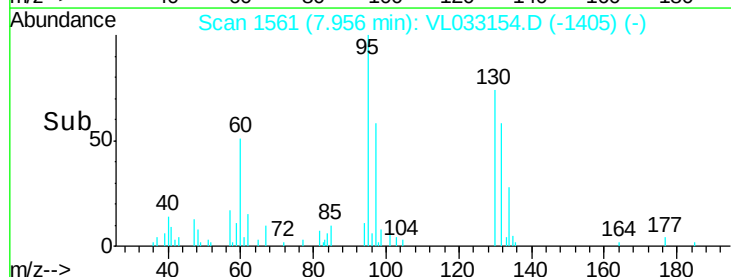
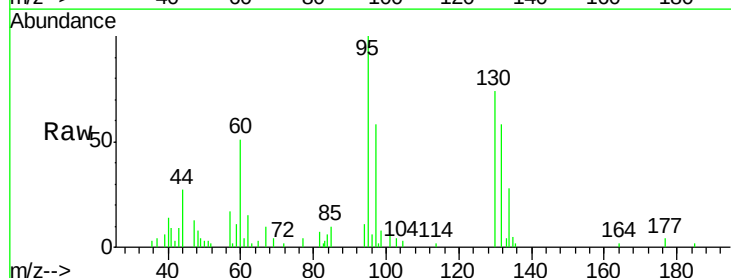
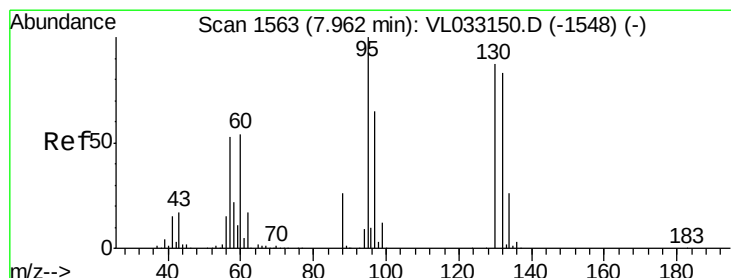
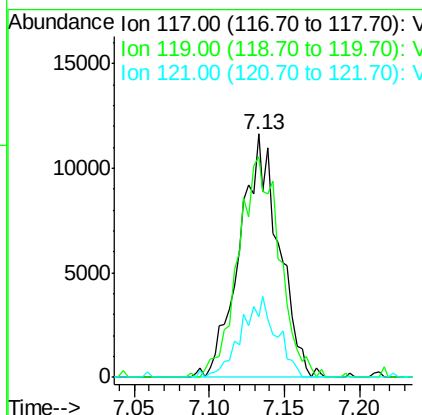
Acq: 4 Feb 2019 12:34

Tot Ion:	117	Resp:	21197
Ion Ratio	Lower	Upper	
117	100		
119	90.4	76.6	114.8
121	24.7	25.0	37.4#

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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#38

Trichloroethene

Concen: 0.085 ppbv m

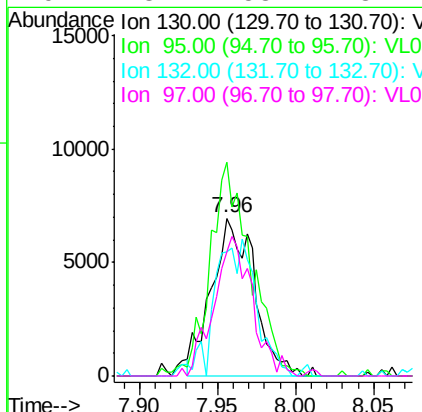
RT: 7.96 min Scan# 1561

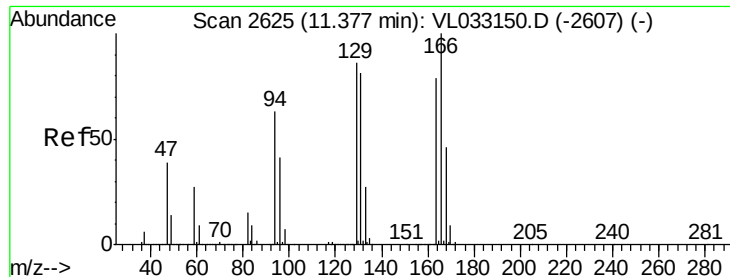
Delta R.T. 0.00 min

Lab File: VL033154.D

Acq: 4 Feb 2019 12:34

Tgt Ion:	130	Resp:	13320
Ion Ratio	Lower	Upper	
130	100		
95	135.4	91.6	137.4
132	78.8	79.0	118.4#
97	78.7	58.1	87.1





#52

Tetrachloroethene

Concen: 0.082 ppbv m

RT: 11.38 min Scan# 2625

Delta R.T. 0.01 min

Lab File: VL033154.D

Acq: 4 Feb 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 12034

Ion Ratio Lower Upper

164 100

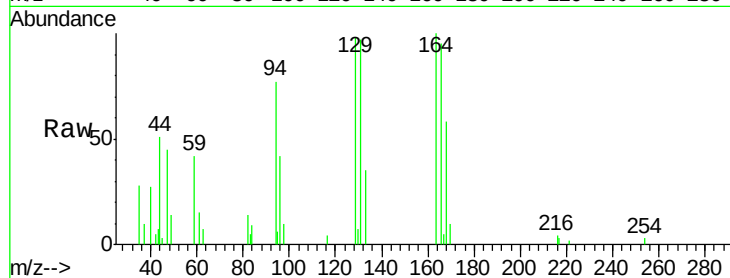
166 95.5 98.6 148.0#

129 98.2 86.3 129.5

131 96.7 83.7 125.5

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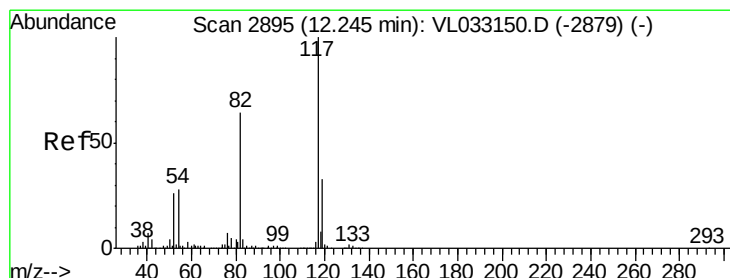
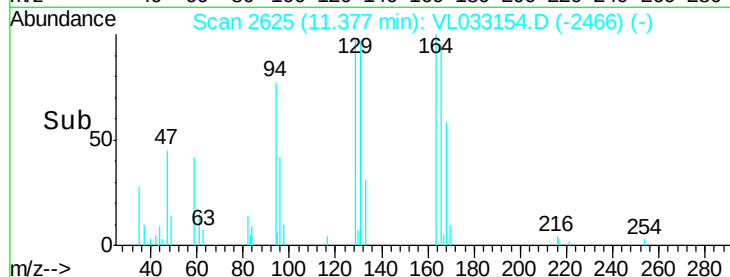
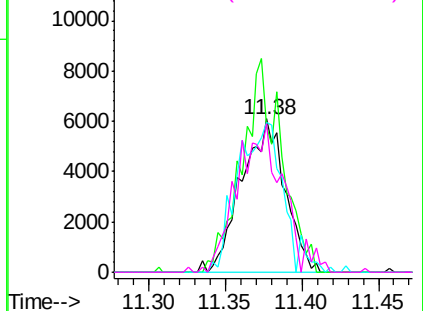


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.24 min Scan# 2893

Delta R.T. 0.00 min

Lab File: VL033154.D

Acq: 4 Feb 2019 12:34

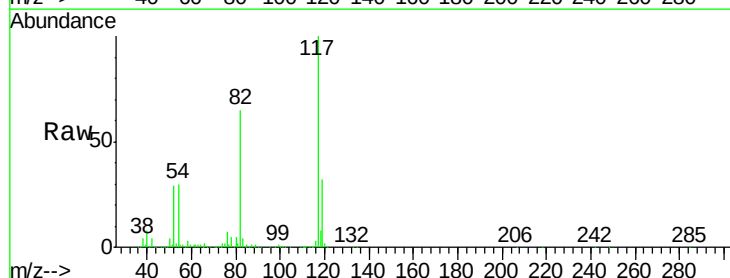
Tgt Ion:117 Resp: 3239141

Ion Ratio Lower Upper

117 100

82 65.9 49.3 73.9

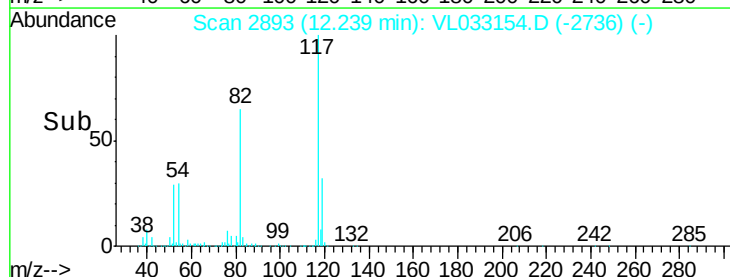
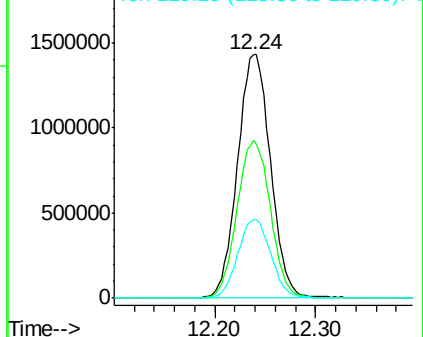
119 32.6 27.1 40.7

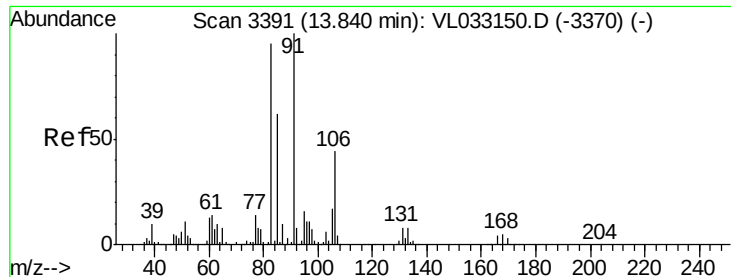


Abundance Ion 117.10 (116.80 to 117.80): V

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: 0.079 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VL033154.D

Acq: 4 Feb 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 83 Resp: 24865

Ion Ratio Lower Upper

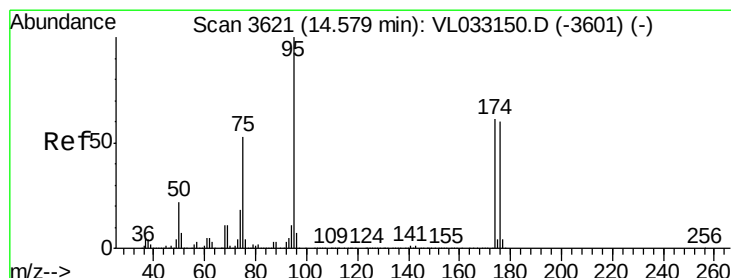
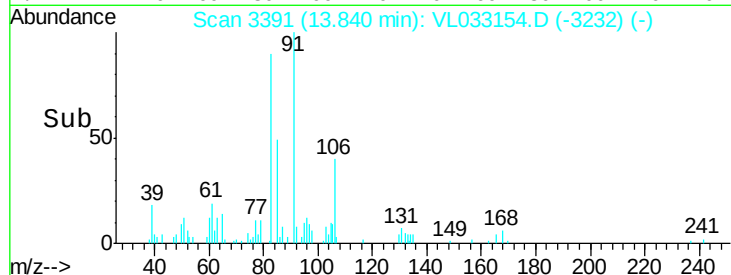
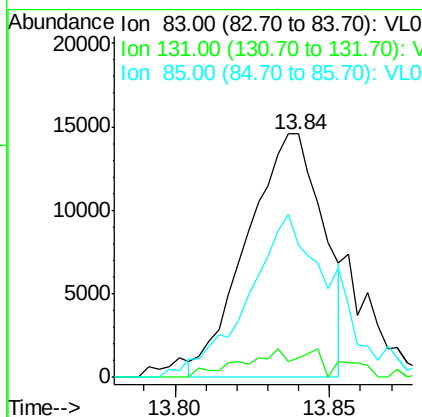
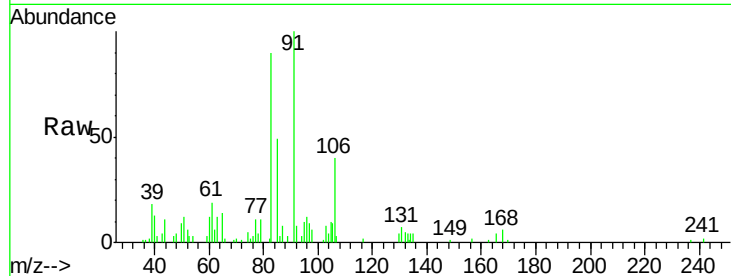
83 100

131 0.0 4.5 13.7#

85 76.8 32.5 97.4

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.528 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL033154.D

Acq: 4 Feb 2019 12:34

Tgt Ion: 95 Resp: 2574689

Ion Ratio Lower Upper

95 100

174 59.9 49.2 73.8

175 4.5 3.7 5.5

