

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032974.D
 Acq On : 12 Dec 2018 3:48
 Operator : SY/AP
 Sample : J6262-04DL 400X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

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 12/13/2018 7:58:54 AM

Quant Time: Dec 12 04:30:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1216466	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2951918	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2949716	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.58	95	2029060	9.31	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.02	51	16664m	0.181	ppbv	
22) trans-1,2-Dichloroethene	4.97	96	14698	0.232	ppbv #	68
31) cis-1,2-Dichloroethene	5.64	61	27927	0.267	ppbv #	84
38) Trichloroethene	7.96	130	141783m	1.569	ppbv	
52) Tetrachloroethene	11.38	164	832753	10.544	ppbv	99

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

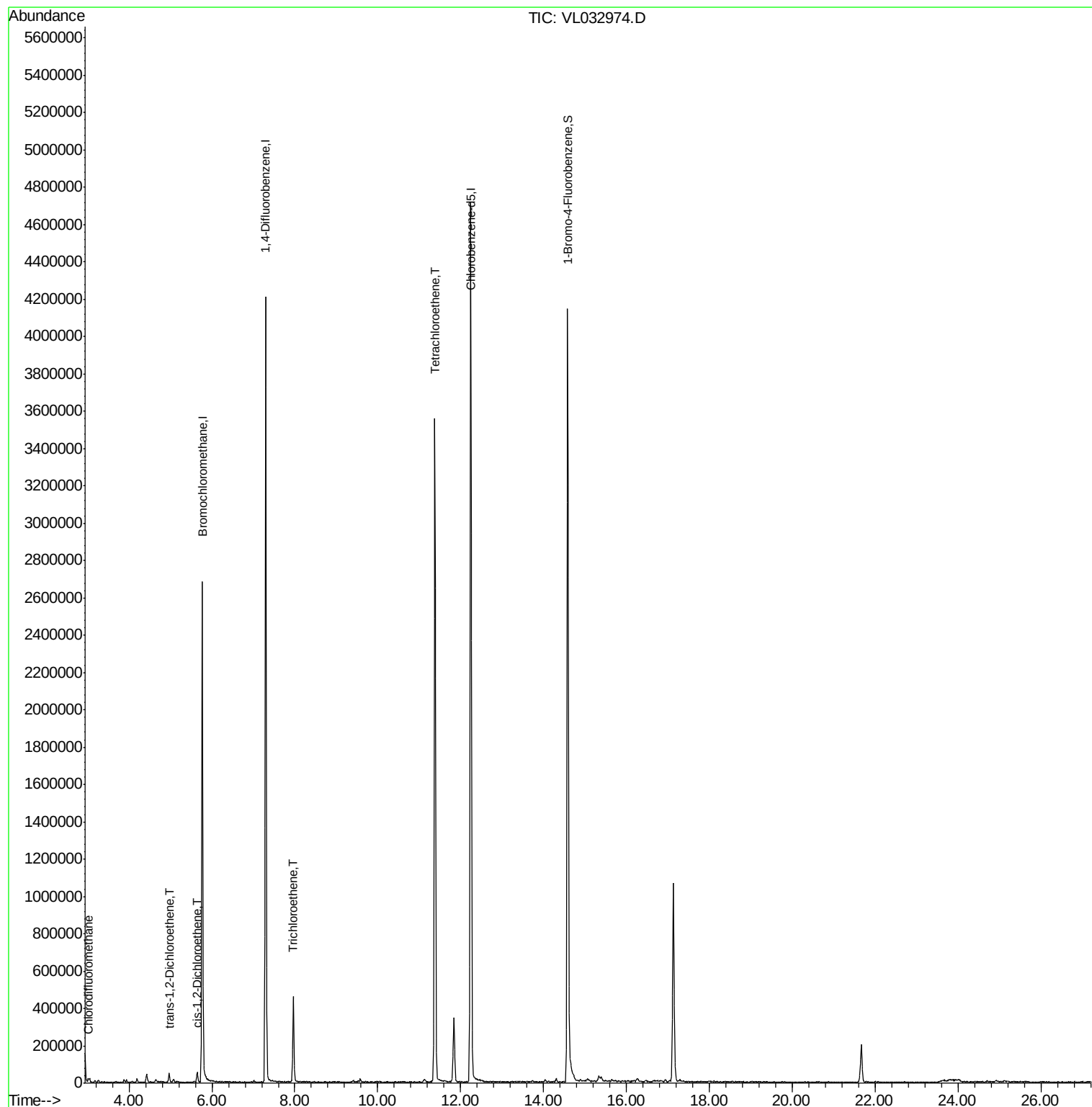
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121118\
Data File : VL032974.D
Acq On : 12 Dec 2018 3:48
Operator : SY/AP
Sample : J6262-04DL 400X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

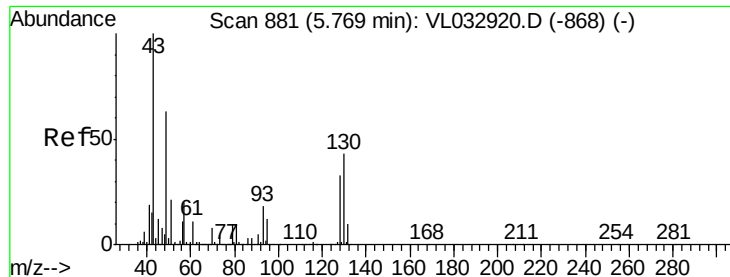
Instrument :
MSVOA_L
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Quant Time: Dec 12 04:30:02 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
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QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032974.D

Acq: 12 Dec 2018 3:48

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 49 Resp: 1216466

Ion Ratio Lower Upper

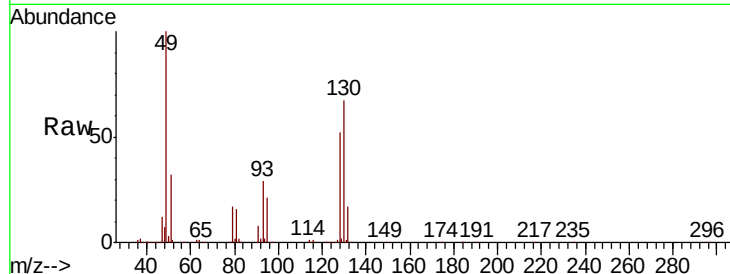
49 100

128 53.4 26.3 78.8

130 68.2 33.9 101.7

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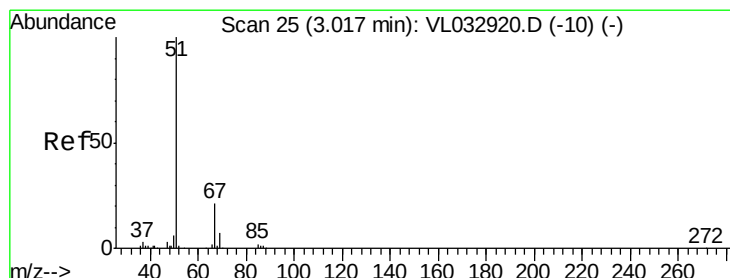
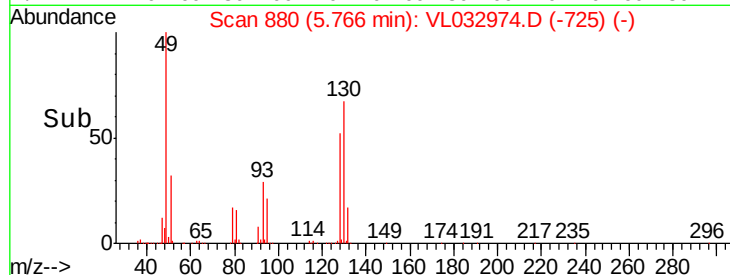
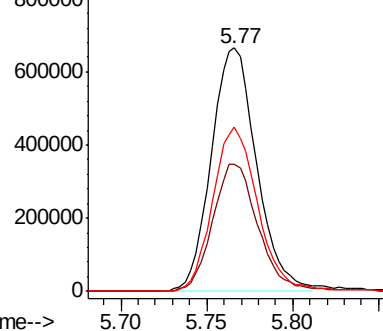
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.181 ppbv m

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032974.D

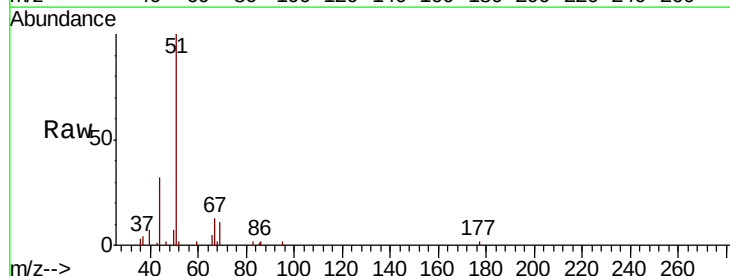
Acq: 12 Dec 2018 3:48

Tgt Ion: 51 Resp: 16664

Ion Ratio Lower Upper

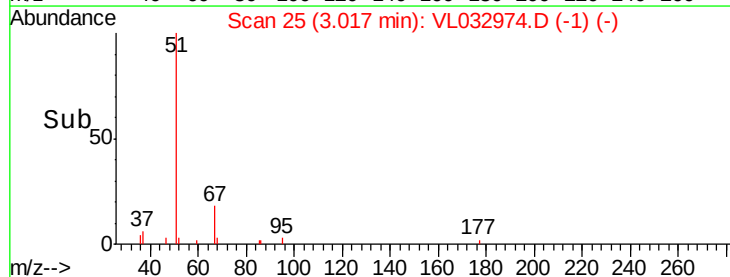
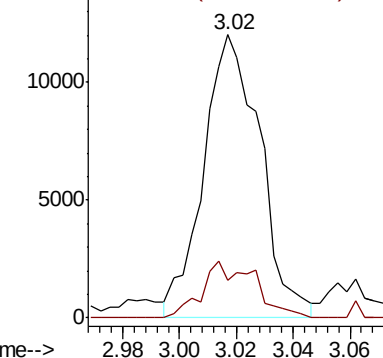
51 100

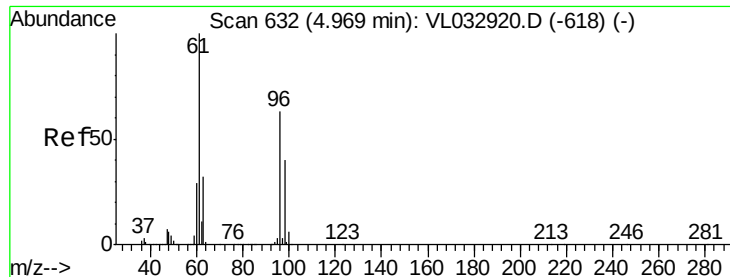
67 18.6 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#22

trans-1,2-Dichloroethene

Concen: 0.232 ppbv

RT: 4.97 min Scan# 633

Delta R.T. 0.00 min

Lab File: VL032974.D

Acq: 12 Dec 2018 3:48

Instrument :

MSVOA_L

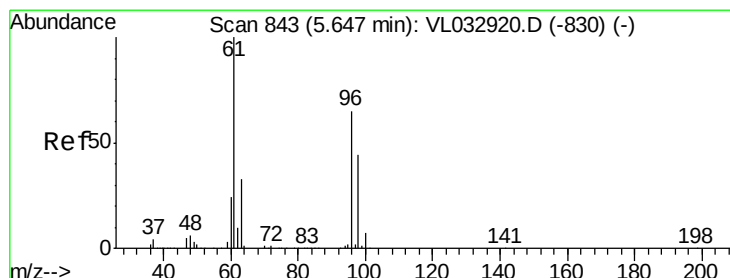
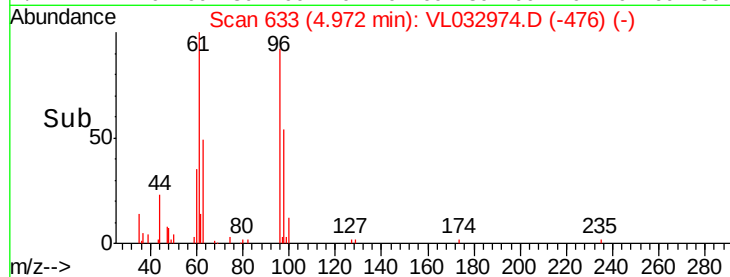
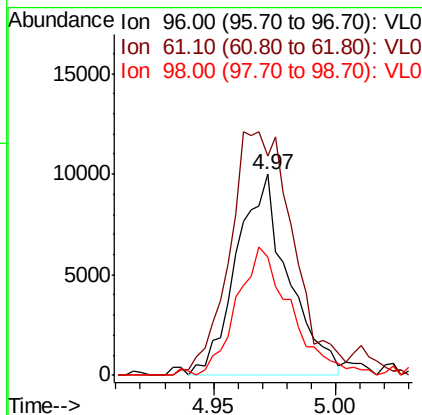
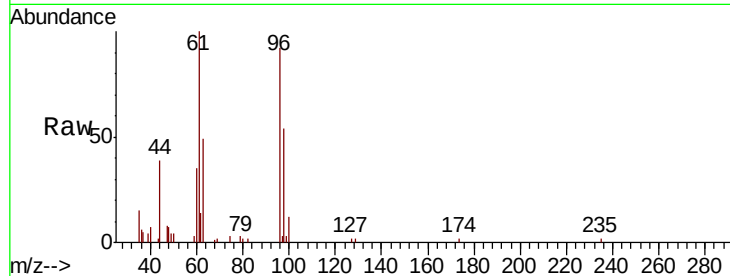
ClientSampled :

SV2DL

Tot Ion:	96	Resp:	14698
Ion	Ratio	Lower	Upper
96	100		
61	106.0	127.1	190.7#
98	56.1	51.3	76.9

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#31

cis-1,2-Dichloroethene

Concen: 0.267 ppbv

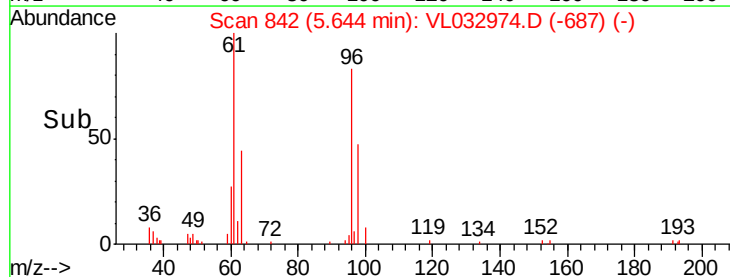
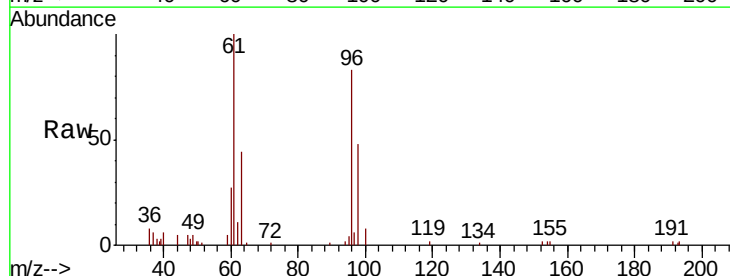
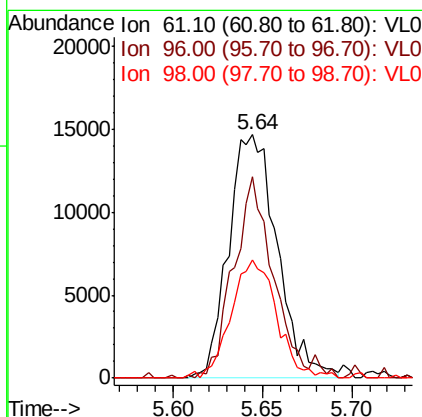
RT: 5.64 min Scan# 842

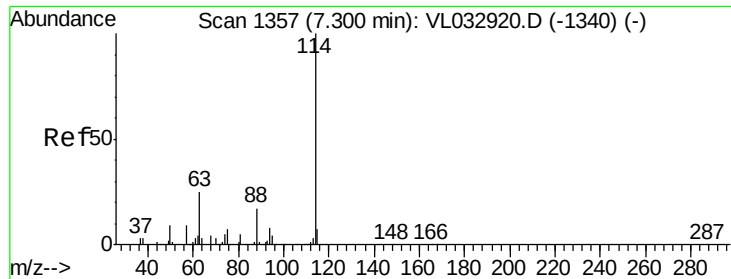
Delta R.T. -0.00 min

Lab File: VL032974.D

Acq: 12 Dec 2018 3:48

Tgt Ion:	61	Resp:	27927
Ion	Ratio	Lower	Upper
61	100		
96	82.7	51.9	77.9#
98	48.4	35.0	52.4





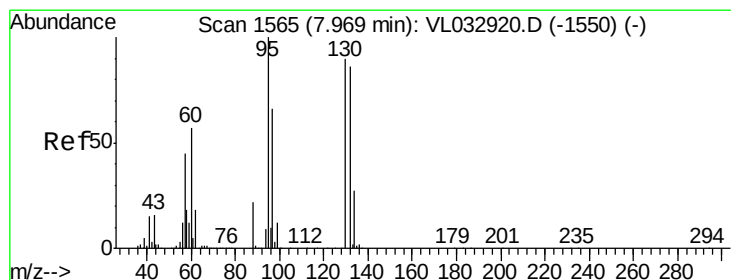
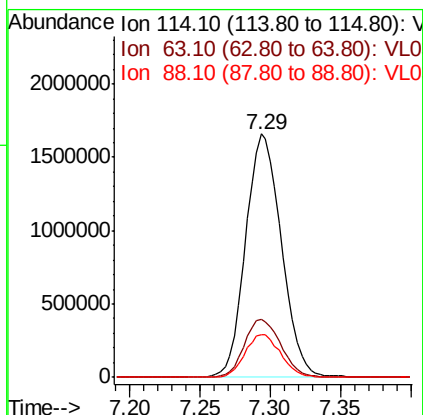
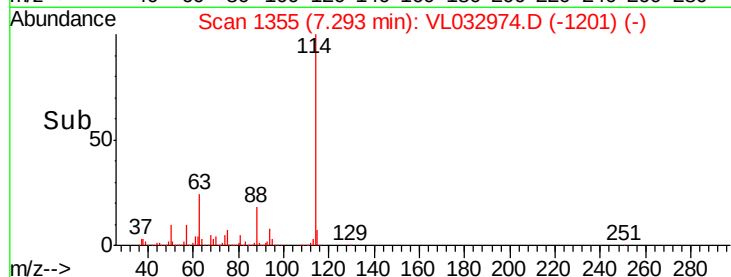
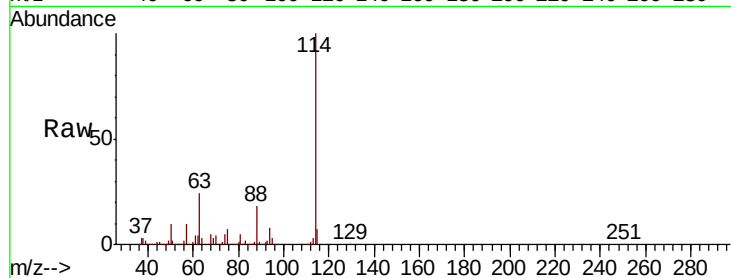
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032974.D
 Acq: 12 Dec 2018 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.5	20.1	30.1
88	17.7	14.2	21.4

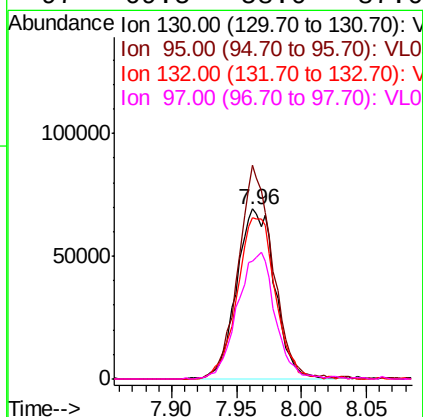
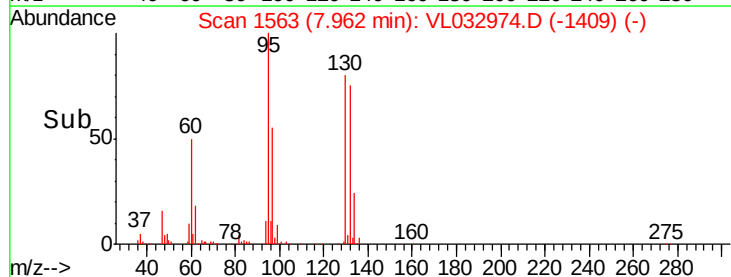
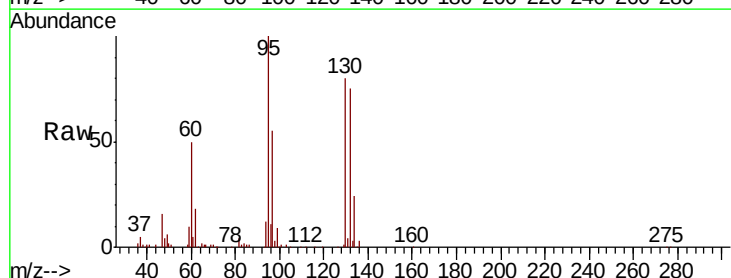
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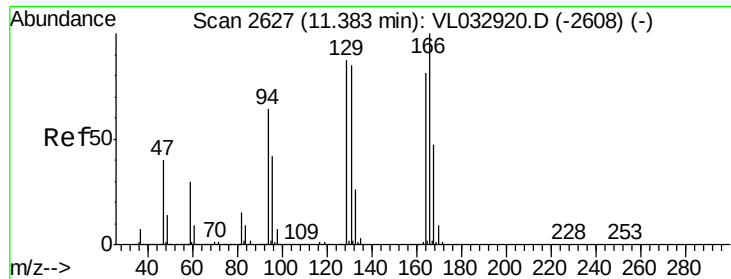
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#38
 Trichloroethene
 Concen: 1.569 ppbv m
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: VL032974.D
 Acq: 12 Dec 2018 3:48

Tgt Ion	Ratio	Lower	Upper
130	100		
95	125.7	88.6	132.8
132	94.7	76.1	114.1
97	69.5	58.0	87.0





#52

Tetrachloroethene

Concen: 10.544 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. -0.00 min

Lab File: VL032974.D

Acq: 12 Dec 2018 3:48

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tot Ion:164 Resp: 832753

Ion Ratio Lower Upper

164 100

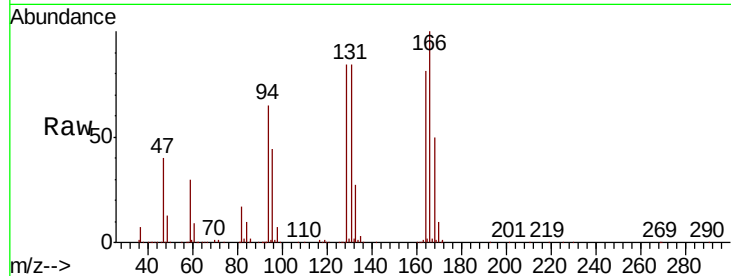
166 123.9 98.8 148.2

129 104.3 85.5 128.3

131 104.0 84.4 126.6

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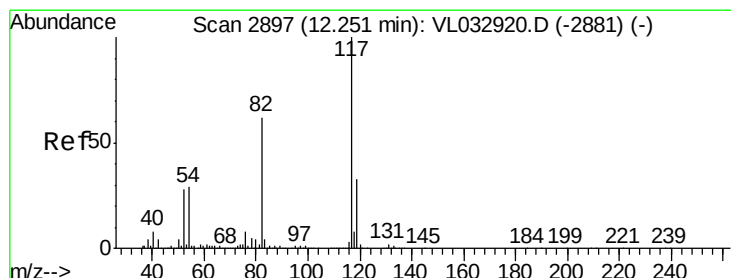
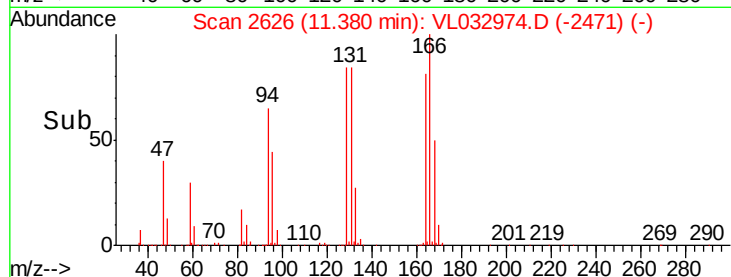
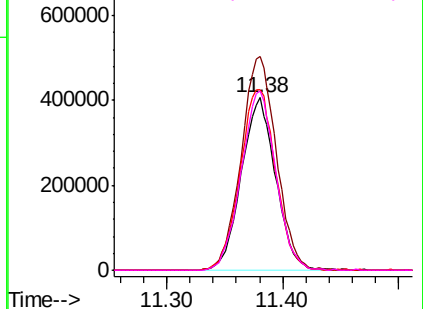
Abundance

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: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032974.D

Acq: 12 Dec 2018 3:48

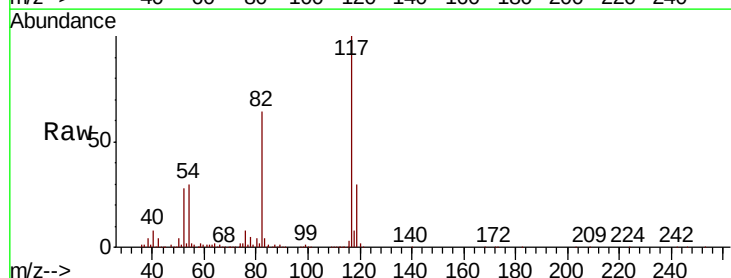
Tgt Ion:117 Resp: 2949716

Ion Ratio Lower Upper

117 100

82 64.8 47.8 71.8

119 32.4 43.1 64.7#

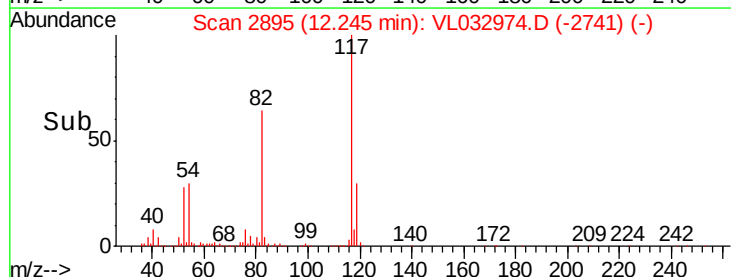
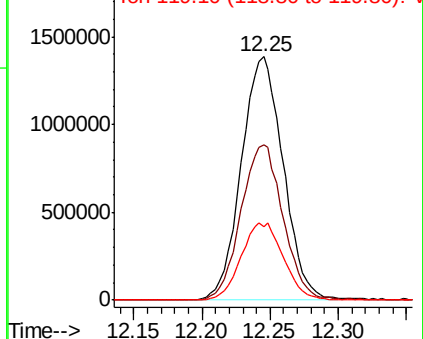


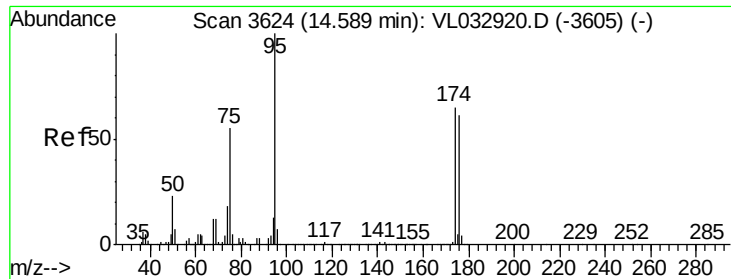
Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.311 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL032974.D
 Acq: 12 Dec 2018 3:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.1	51.4	77.0
175	4.9	3.8	5.6

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