

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031856.D
 Acq On : 12 Apr 2018 3:26
 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

MMDadoda
 4/15/2018 3:06:15 PM

Quant Time: Apr 12 04:48:13 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 2018
 QLast Update : Thu Apr 12 04:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1267445	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2693020	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2615039	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2139338	10.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.39	62	3337m	0.041	ppbv	
32) 1,1,1-Trichloroethane	6.75	97	7969m	0.032	ppbv	
35) Carbon Tetrachloride	7.28	117	9292m	0.046	ppbv	
38) Trichloroethene	8.11	130	3478m	0.034	ppbv	
52) Tetrachloroethene	11.51	164	3256m	0.032	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.99	83	8956m	0.039	ppbv	

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

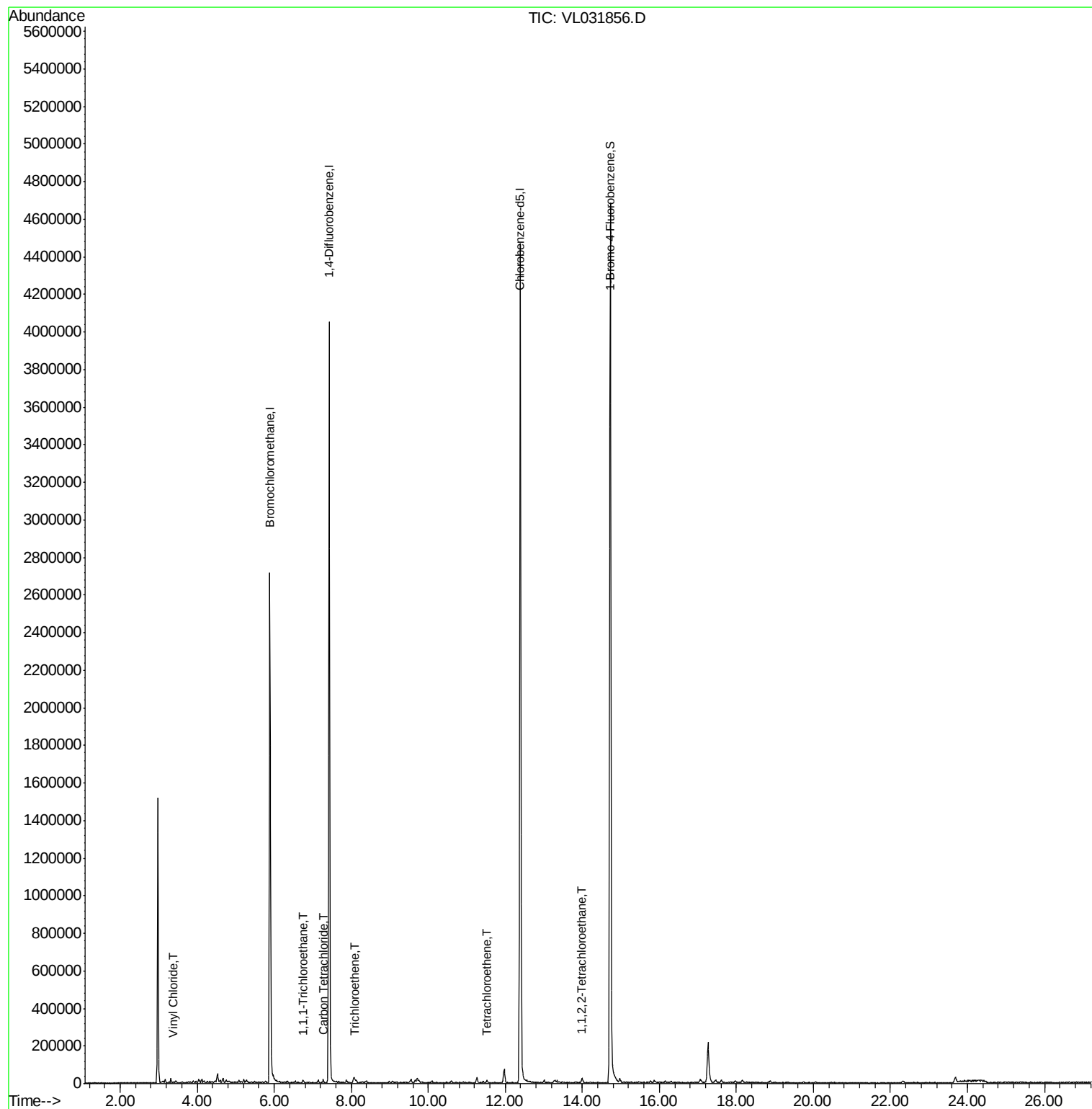
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
Data File : VL031856.D
Acq On : 12 Apr 2018 3:26
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA L
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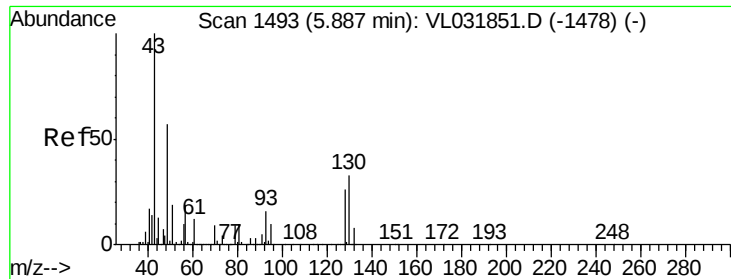
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

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Quant Time: Apr 12 04:48:13 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr
QLast Update : Thu Apr 12 04:17:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VL031856.D

Acq: 12 Apr 2018 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1267445

Ion Ratio Lower Upper

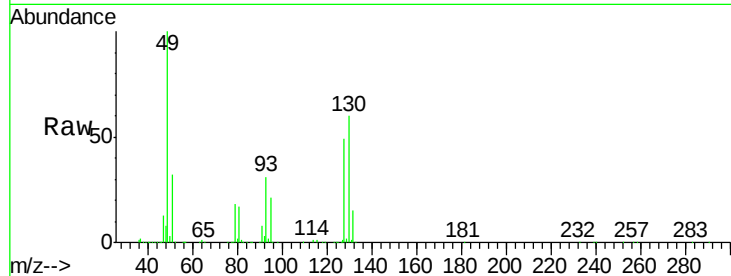
49 100

128 48.9 23.9 71.8

130 63.5 31.1 93.2

Manual Integrations
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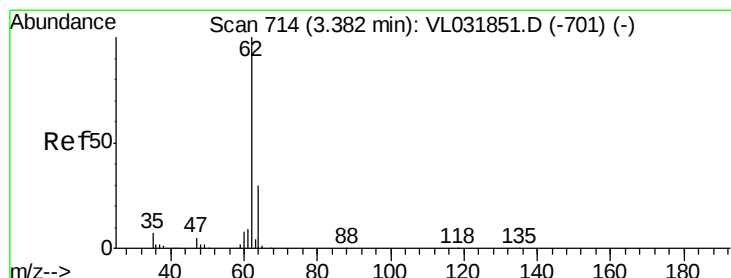
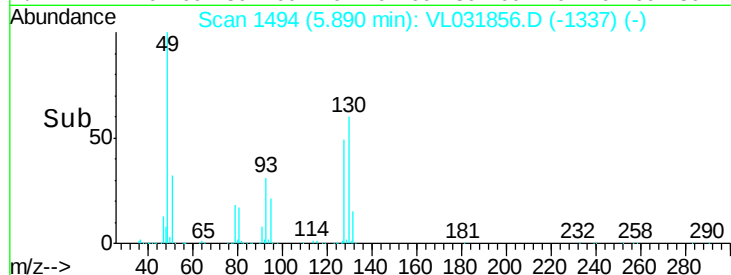
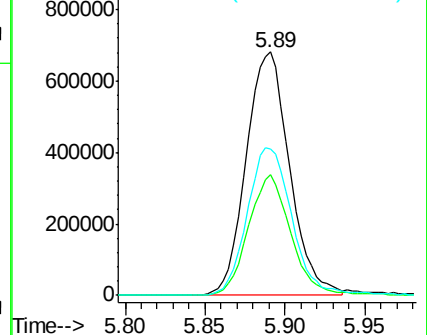
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.041 ppbv m

RT: 3.39 min Scan# 716

Delta R.T. 0.01 min

Lab File: VL031856.D

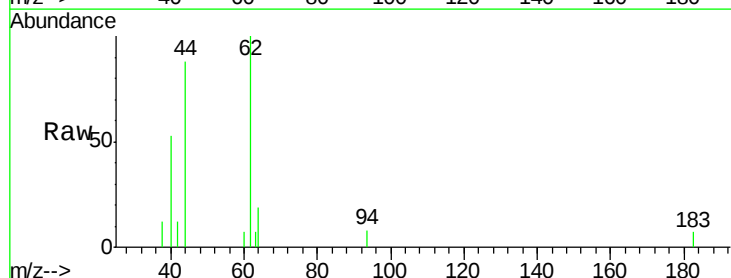
Acq: 12 Apr 2018 3:26

Tgt Ion: 62 Resp: 3337

Ion Ratio Lower Upper

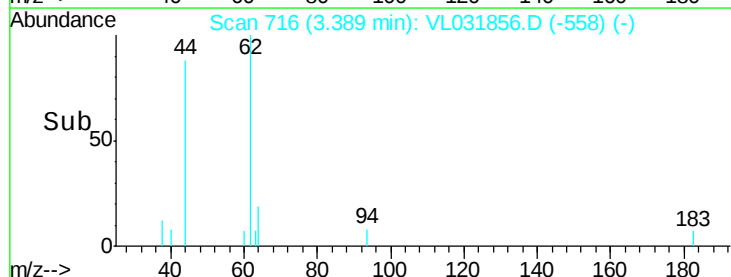
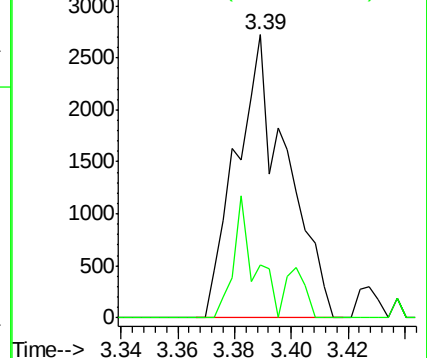
62 100

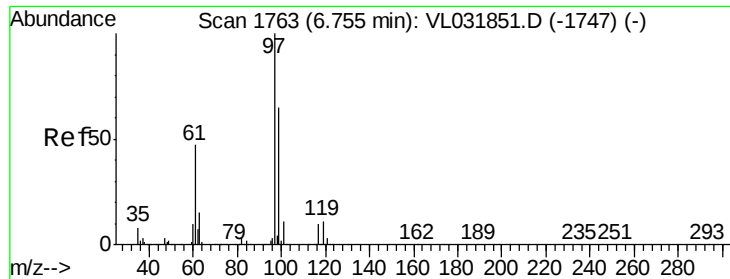
64 18.6 23.8 35.8#



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: 0.032 ppbv m

RT: 6.75 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VL031856.D

Acq: 12 Apr 2018 3:26

Instrument :

MSVOA_L

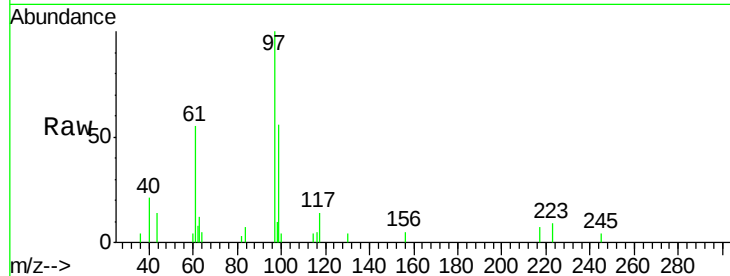
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	7969
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	0.0	39.0	58.4#

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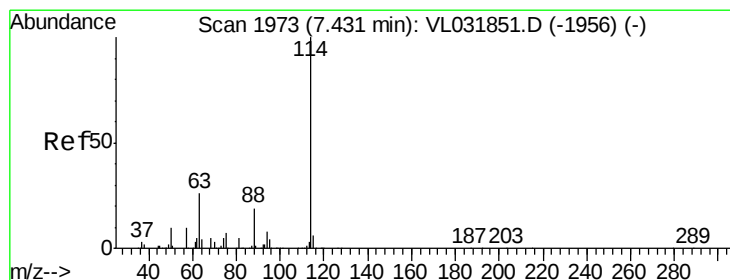
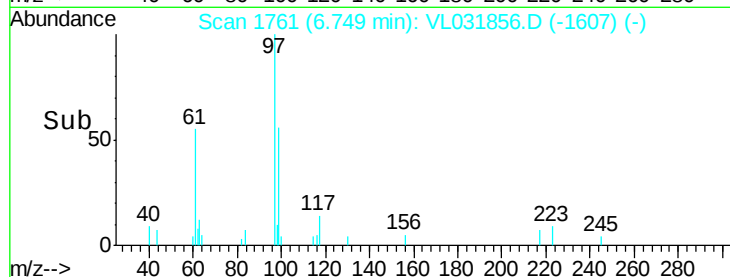
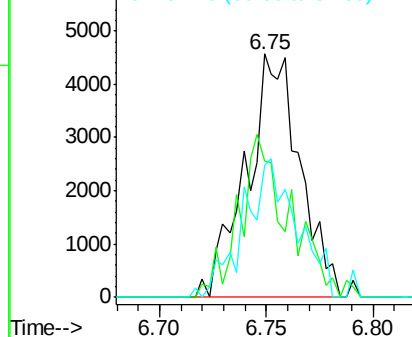


Abundance

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

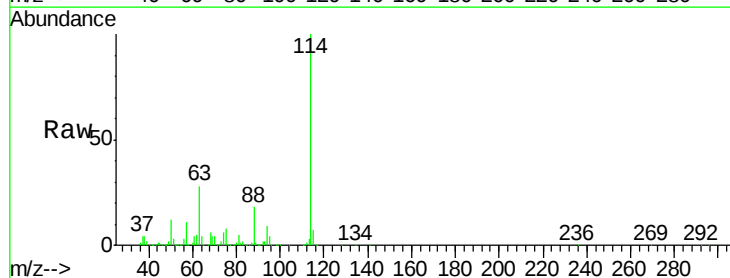
RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VL031856.D

Acq: 12 Apr 2018 3:26

Tgt Ion:	114	Resp:	2693020
Ion	Ratio	Lower	Upper
114	100		
63	27.8	21.4	32.2
88	18.5	14.7	22.1

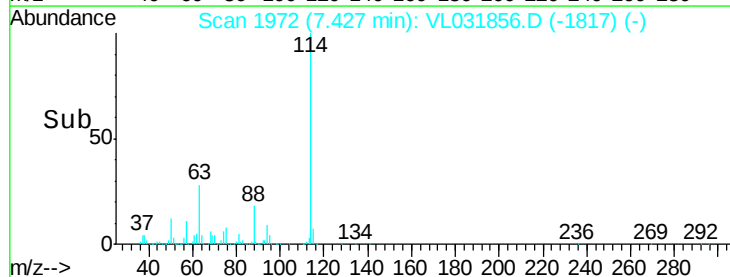
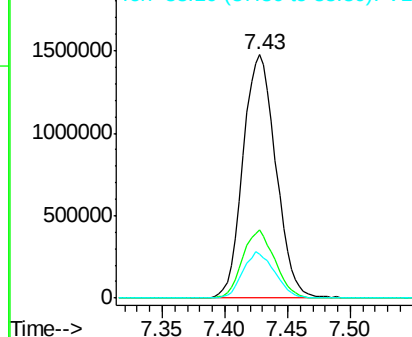


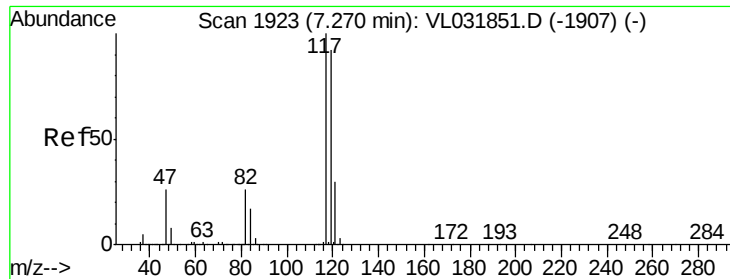
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.046 ppbv m

RT: 7.28 min Scan# 1925

Delta R.T. 0.01 min

Lab File: VL031856.D

Acq: 12 Apr 2018 3:26

Instrument :

MSVOA_L

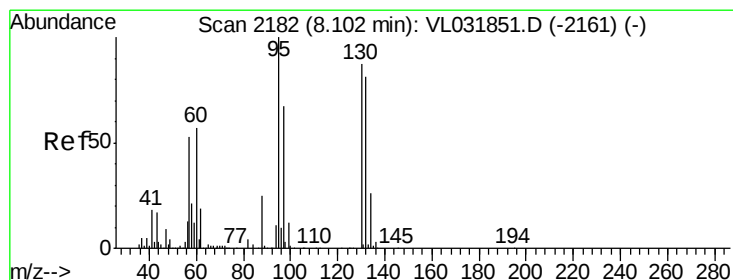
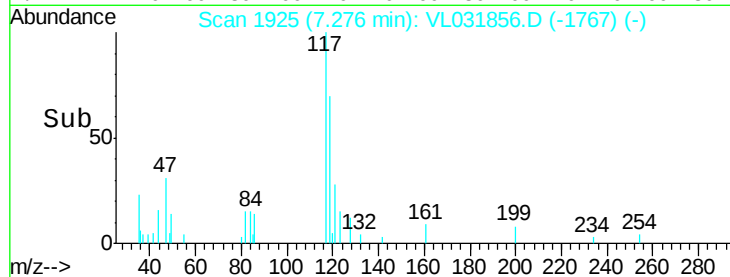
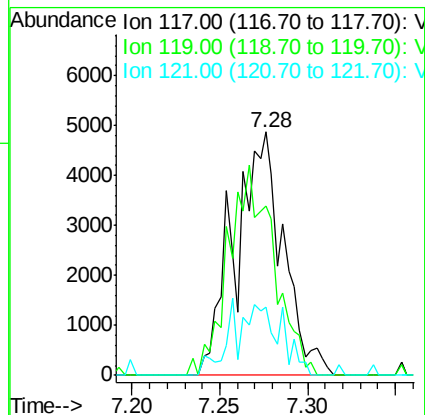
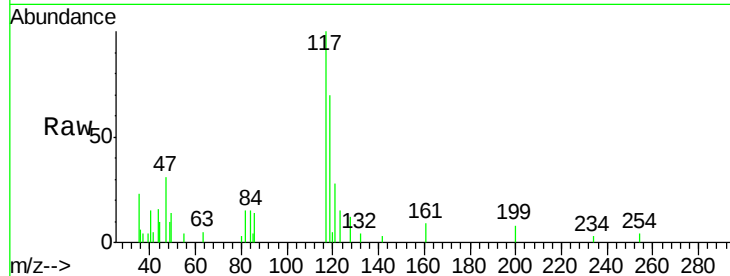
ClientSampleId :

VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	69.6	73.4	110.0#
121	28.2	24.2	36.4

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#38

Trichloroethene

Concen: 0.034 ppbv m

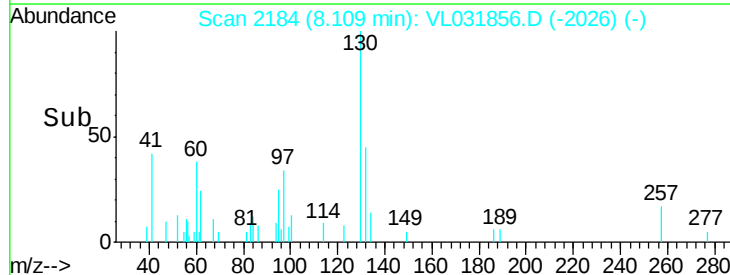
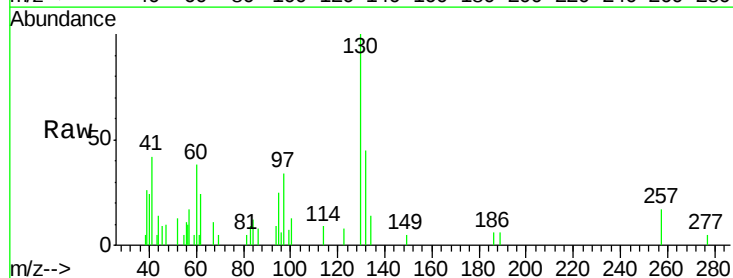
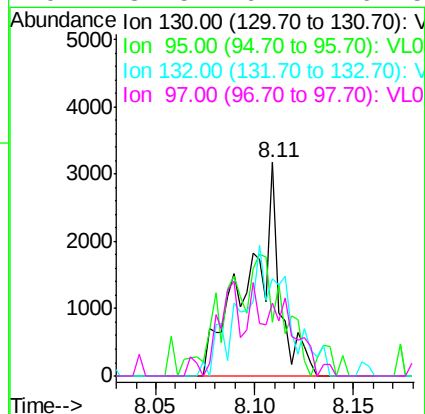
RT: 8.11 min Scan# 2184

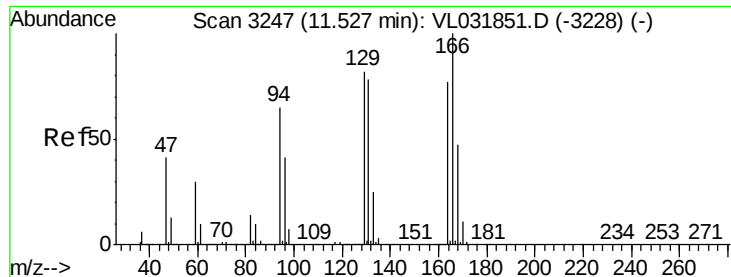
Delta R.T. 0.01 min

Lab File: VL031856.D

Acq: 12 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	25.2	92.1	138.1#
132	45.3	74.8	112.2#
97	34.5	61.7	92.5#





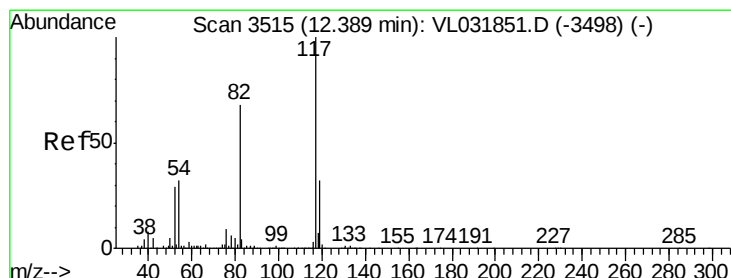
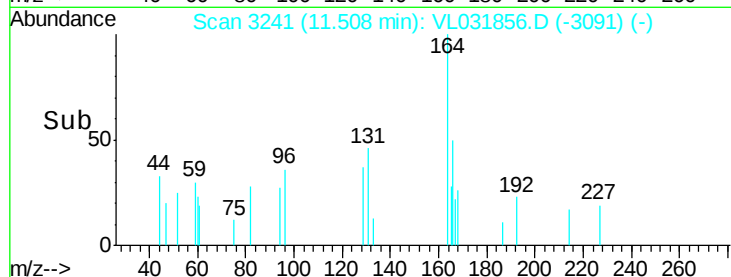
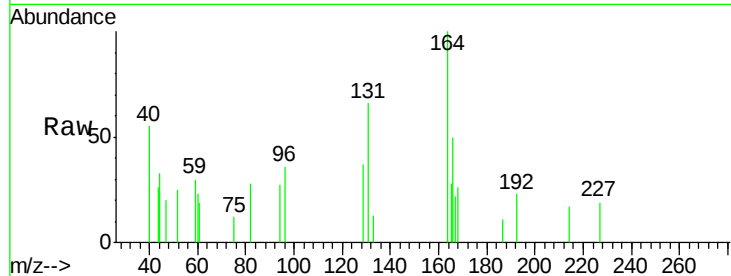
#52
Tetrachloroethene
Concen: 0.032 ppbv m
RT: 11.51 min Scan# 3241
Delta R.T. -0.02 min
Lab File: VL031856.D
Acq: 12 Apr 2018 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
164	100		
166	49.6	103.3	154.9#
129	0.0	84.2	126.4#
131	66.3	80.6	121.0#

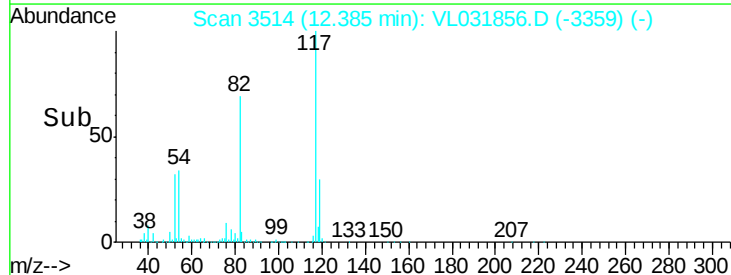
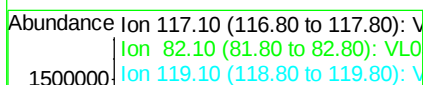
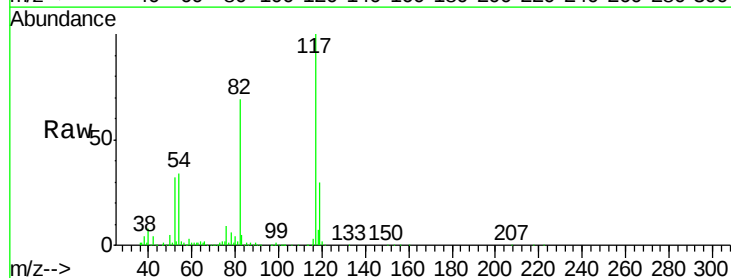
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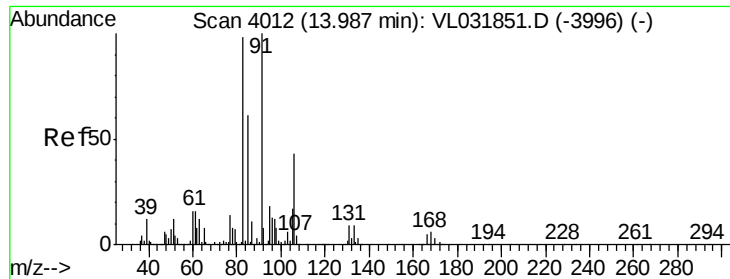
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.39 min Scan# 3514
Delta R.T. -0.00 min
Lab File: VL031856.D
Acq: 12 Apr 2018 3:26

Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.3	52.9	79.3
119	32.9	43.8	65.6#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.039 ppbv m

RT: 13.99 min Scan# 4014

Delta R.T. 0.01 min

Lab File: VL031856.D

Acq: 12 Apr 2018 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 83 Resp: 8956

Ion Ratio Lower Upper

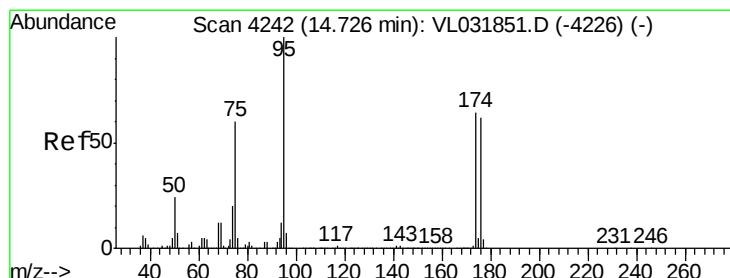
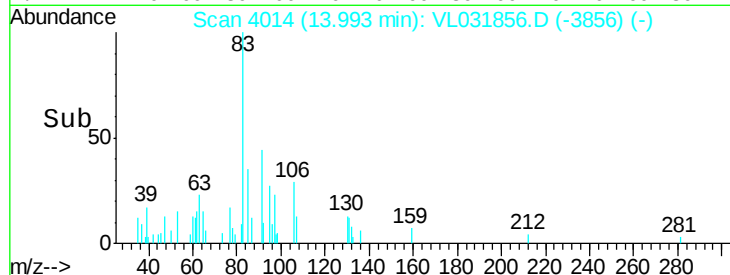
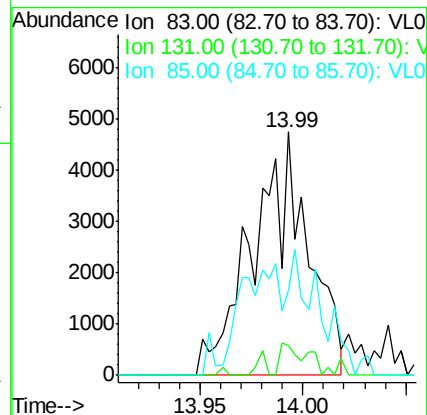
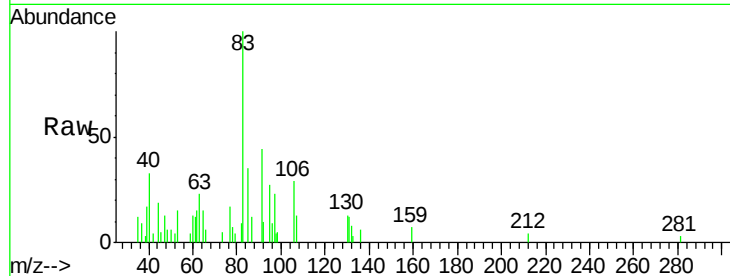
83 100

131 0.0 4.8 14.4#

85 0.0 32.8 98.4#

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.890 ppbv

RT: 14.73 min Scan# 4242

Delta R.T. 0.00 min

Lab File: VL031856.D

Acq: 12 Apr 2018 3:26

Tgt Ion: 95 Resp: 2139338

Ion Ratio Lower Upper

95 100

174 65.5 52.2 78.2

175 4.7 3.8 5.8

