

Data File : VL034053.D
Acq On : 30 Jul 2019 5:18
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
8/2/2019 9:37:39 AM

Quant Time: Jul 30 05:49:44 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
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	5.72	49	1169815	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	3936034	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2719528	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2222322	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	3.27	62	2710m	0.028	ppbv	
32) 1,1,1-Trichloroethane	6.57	97	8316m	0.036	ppbv	
35) Carbon Tetrachloride	7.08	117	9519m	0.032	ppbv	
38) Trichloroethene	7.91	130	3798m	0.029	ppbv	
52) Tetrachloroethene	11.33	164	3508m	0.028	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	7429m	0.033	ppbv	

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

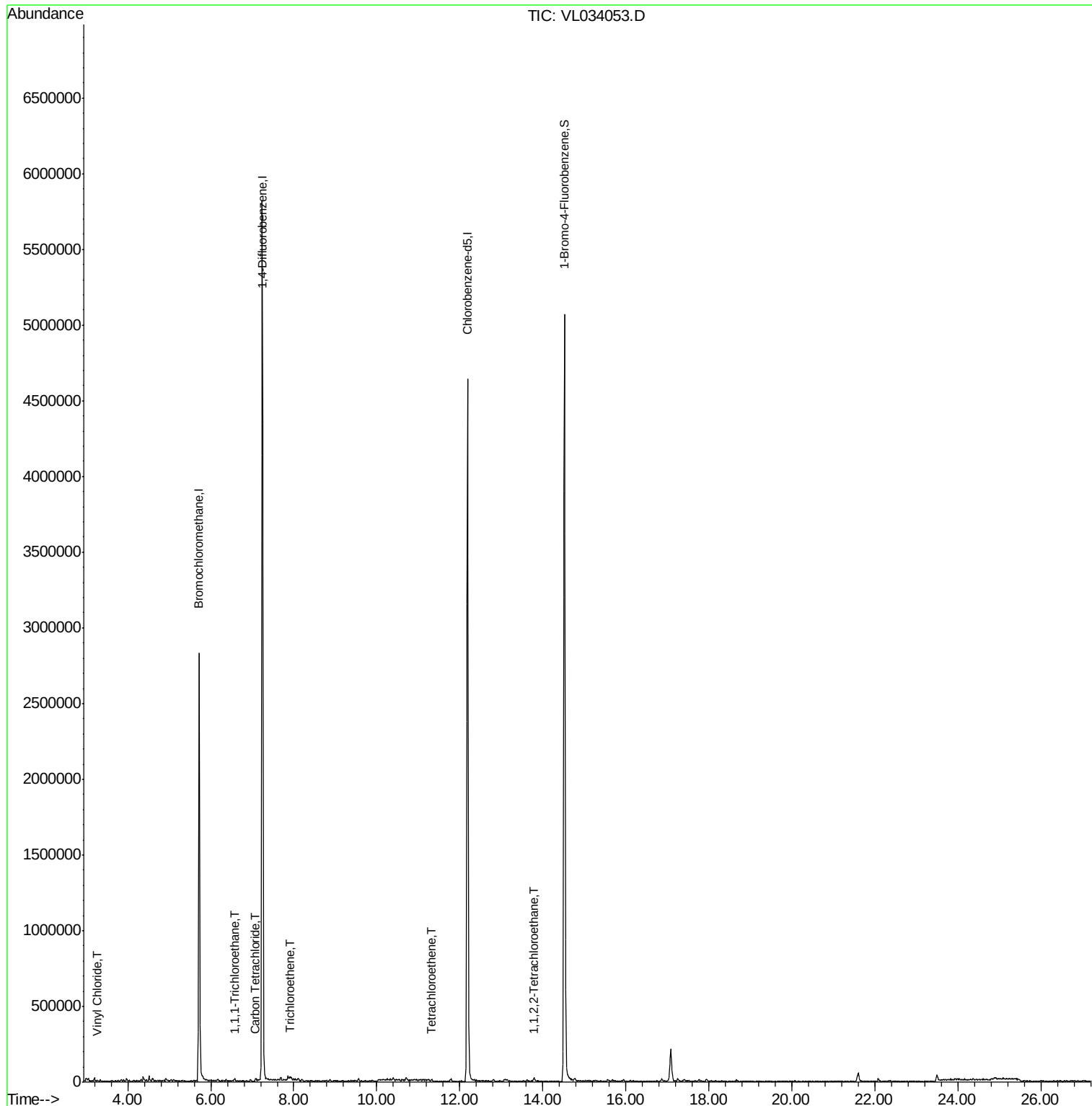
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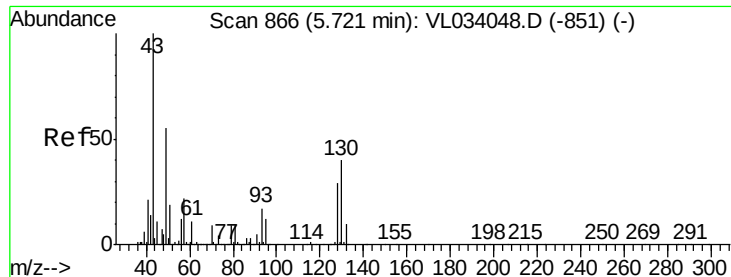
Instrument :
MSVOA_L
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 49 Resp: 1169815

Ion Ratio Lower Upper

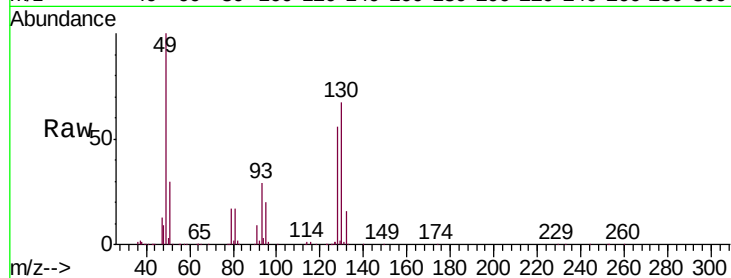
49 100

128 57.7 27.0 81.0

130 74.0 35.0 105.0

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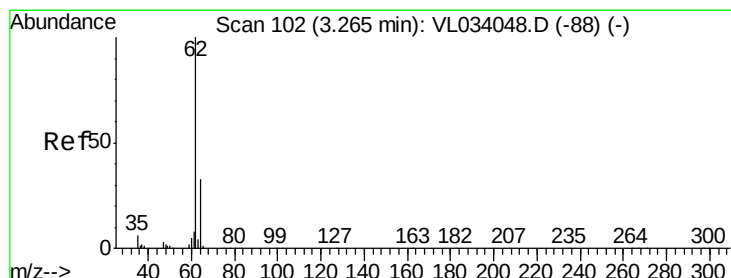
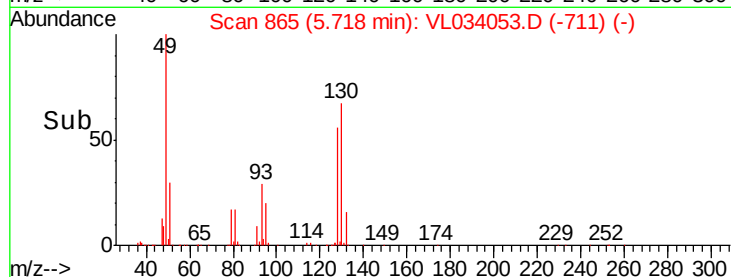
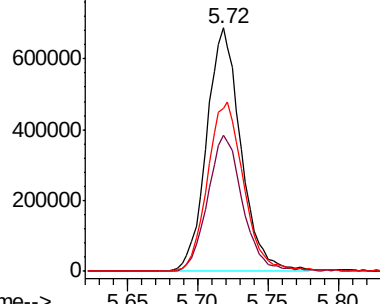
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.028 ppbv m

RT: 3.27 min Scan# 103

Delta R.T. 0.00 min

Lab File: VL034053.D

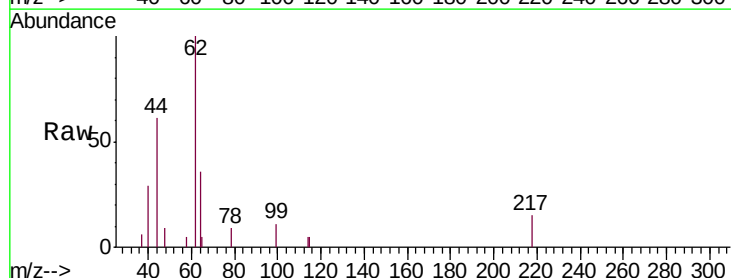
Acq: 30 Jul 2019 5:18

Tgt Ion: 62 Resp: 2710

Ion Ratio Lower Upper

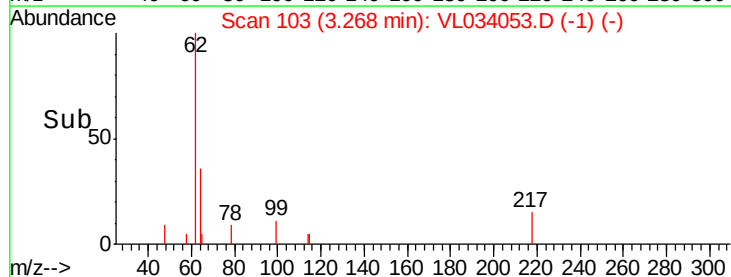
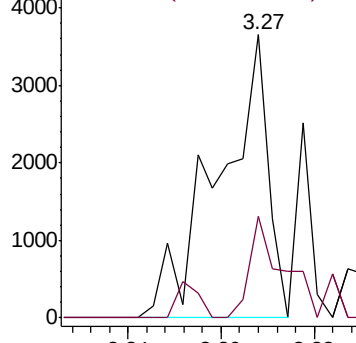
62 100

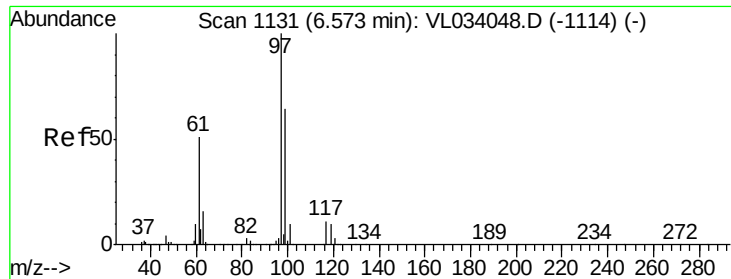
64 35.9 26.5 39.7



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: 0.036 ppbv m

RT: 6.57 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

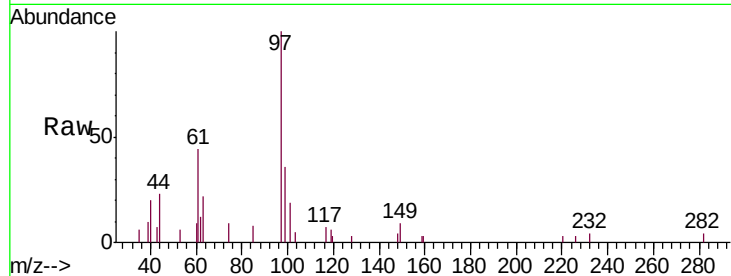
ClientSampleId :

VSTDIC0.03

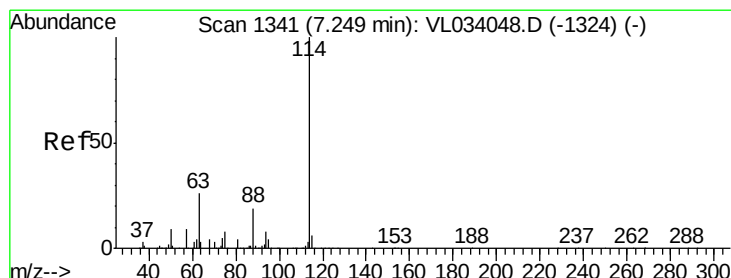
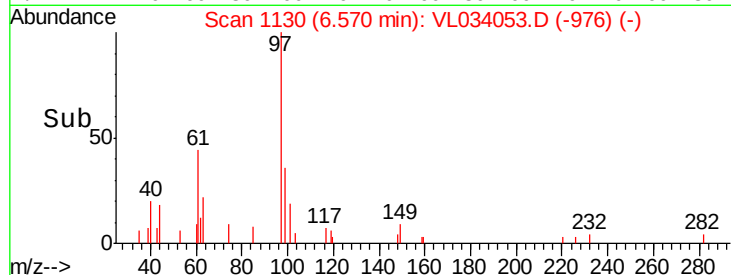
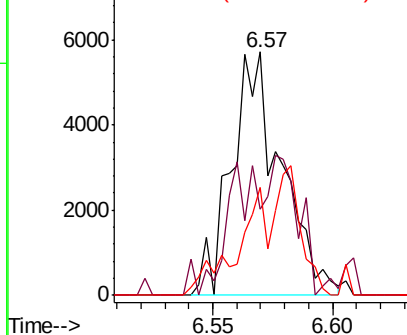
Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.6#
61	0.0	39.5	59.3#

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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

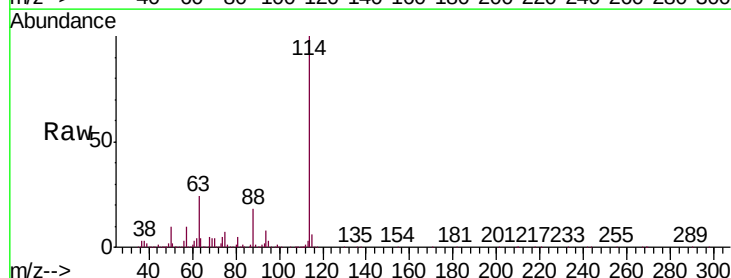
RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

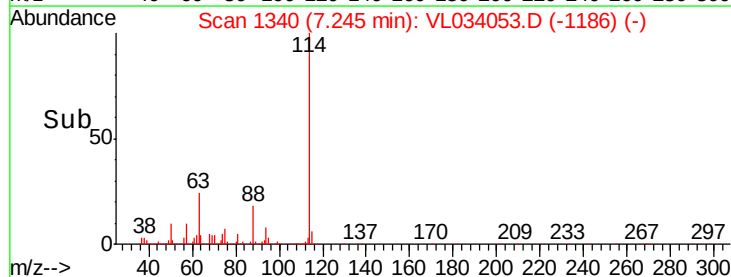
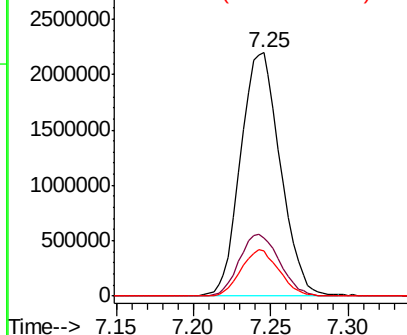
Lab File: VL034053.D

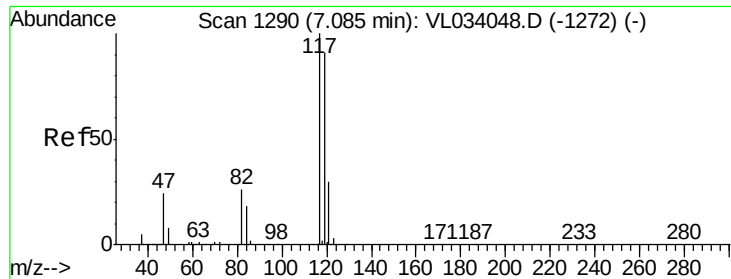
Acq: 30 Jul 2019 5:18

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.0	31.6
88	18.3	14.7	22.1



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: 0.032 ppbv m

RT: 7.08 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

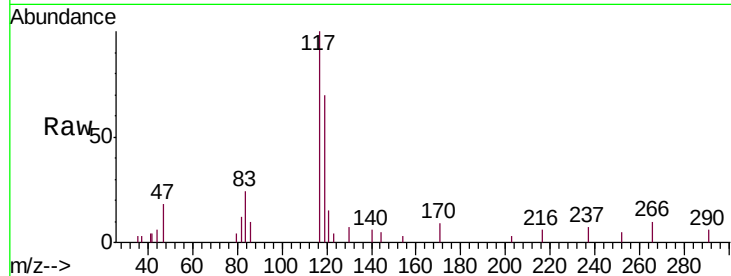
ClientSampleId :

VSTDIC0.03

Tgt Ion:	117	Resp:	9519
Ion Ratio	Lower	Upper	
117	100		
119	70.2	73.2	109.8#
121	15.0	24.0	36.0#

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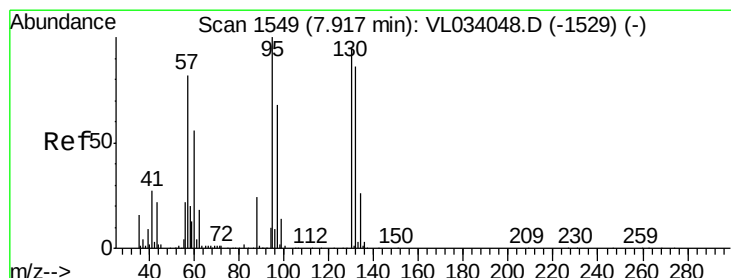
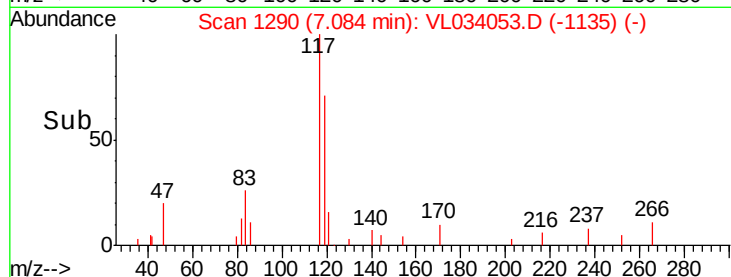
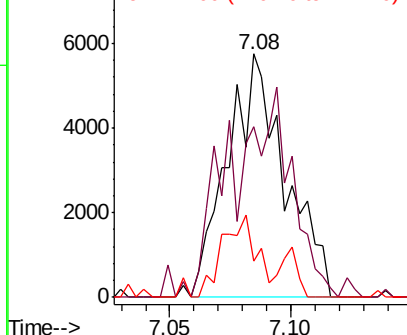


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.029 ppbv m

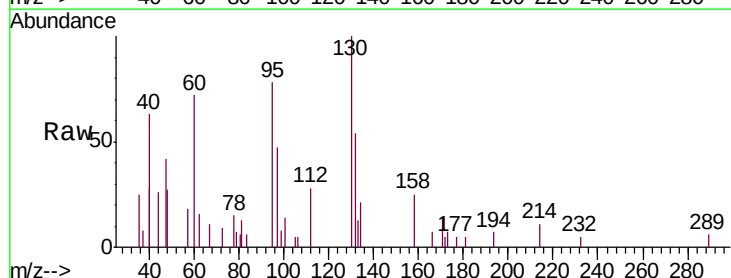
RT: 7.91 min Scan# 1547

Delta R.T. -0.01 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Tgt Ion:	130	Resp:	3798
Ion Ratio	Lower	Upper	
130	100		
95	78.3	84.1	126.1#
132	54.3	72.7	109.1#
97	47.2	56.9	85.3#



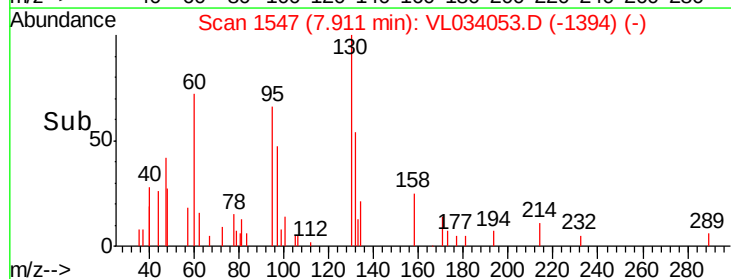
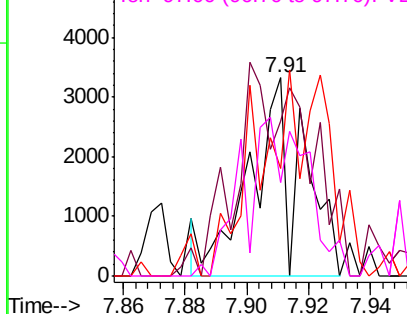
Abundance

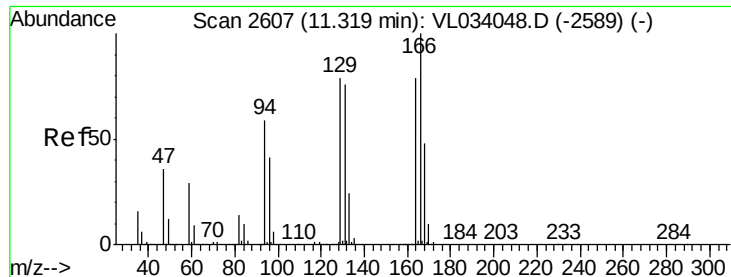
Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): V

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): V





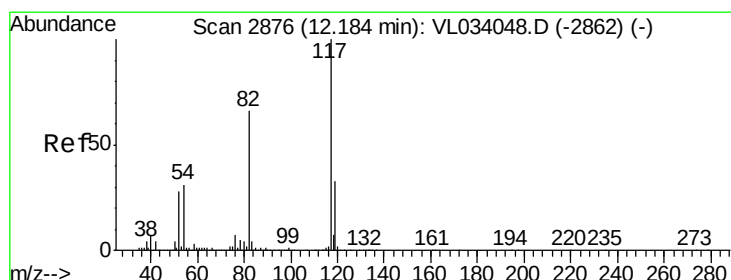
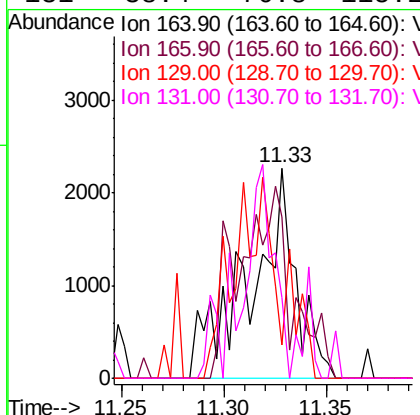
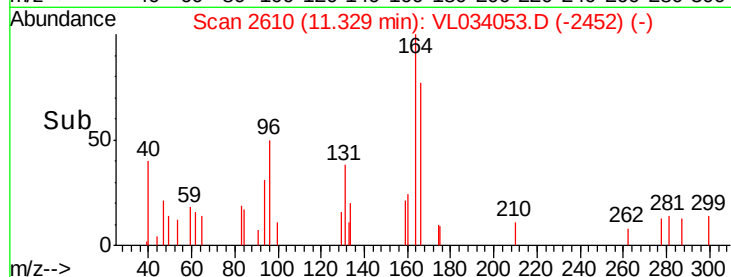
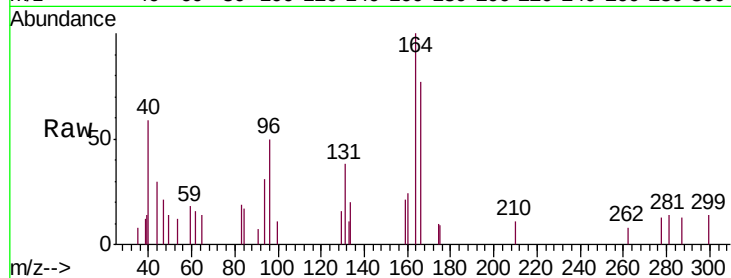
#52
Tetrachloroethene
Concen: 0.028 ppbv m
RT: 11.33 min Scan# 2610
Delta R.T. 0.01 min
Lab File: VL034053.D
Acq: 30 Jul 2019 5:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	77.1	101.6	152.4#
129	16.1	80.7	121.1#
131	38.4	76.8	115.2#

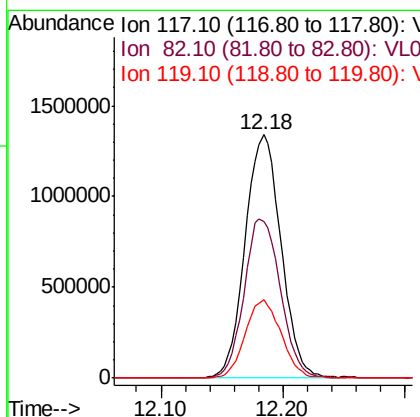
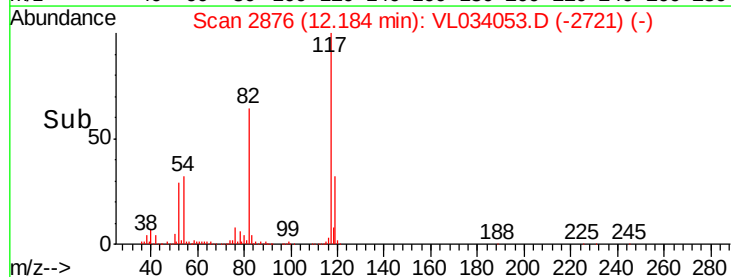
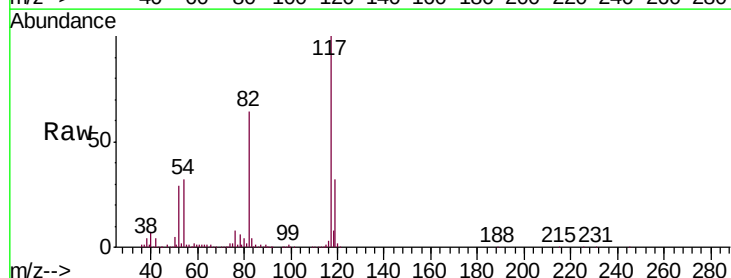
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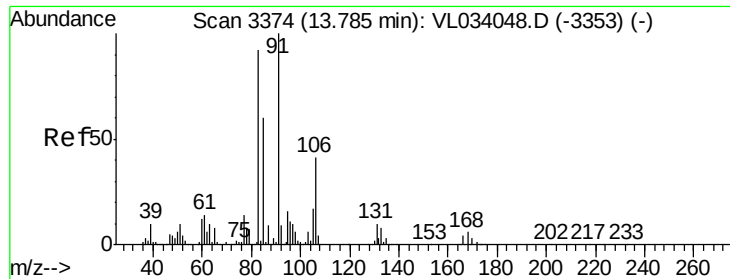
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2876
Delta R.T. -0.00 min
Lab File: VL034053.D
Acq: 30 Jul 2019 5:18

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.3	49.8	74.8
119	32.4	43.0	64.6#





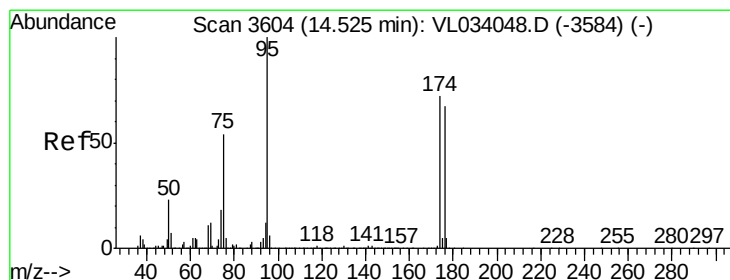
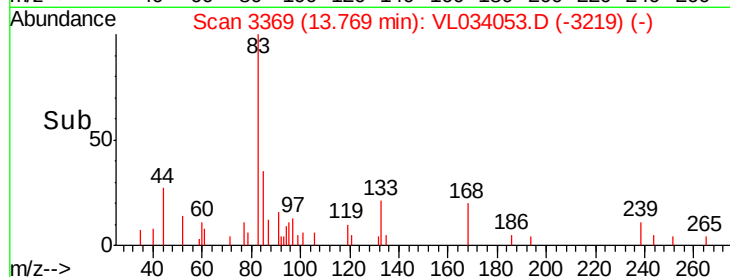
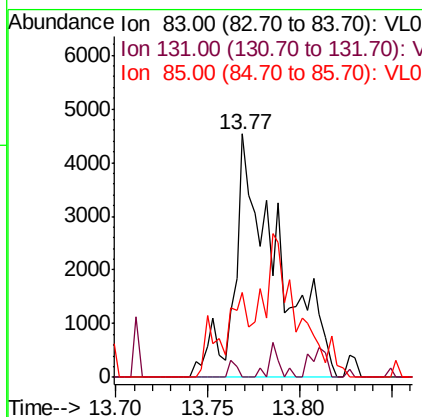
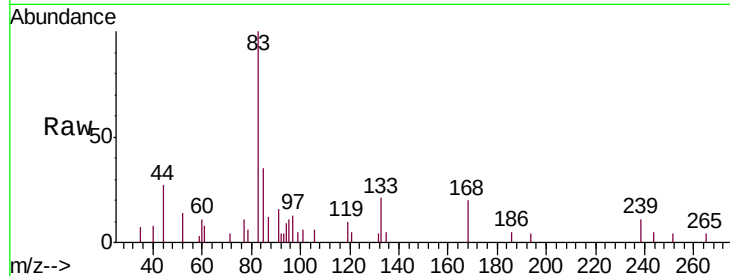
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.033 ppbv m
 RT: 13.77 min Scan# 3369
 Delta R.T. -0.02 min
 Lab File: VL034053.D
 Acq: 30 Jul 2019 5:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	67.7	32.4	97.0

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.957 ppbv
 RT: 14.52 min Scan# 3602
 Delta R.T. -0.01 min
 Lab File: VL034053.D
 Acq: 30 Jul 2019 5:18

Tgt Ion	Ratio	Lower	Upper
95	100		
174	72.0	57.6	86.4
175	5.1	4.1	6.1

