

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033659.D
 Acq On : 6 May 2019 14:10
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Manual Integrations
 APPROVED

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 5/8/2019 12:06:27 PM

Quant Time: May 06 14:46:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	900545	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2148372	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2303875	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1887385	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	1939m	0.031	ppbv	
32) 1,1,1-Trichloroethane	6.62	97	5225m	0.031	ppbv	
35) Carbon Tetrachloride	7.13	117	5435m	0.032	ppbv	
38) Trichloroethene	7.96	130	1414m	0.019	ppbv	
52) Tetrachloroethene	11.37	164	1595m	0.023	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.82	83	5739m	0.030	ppbv	

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

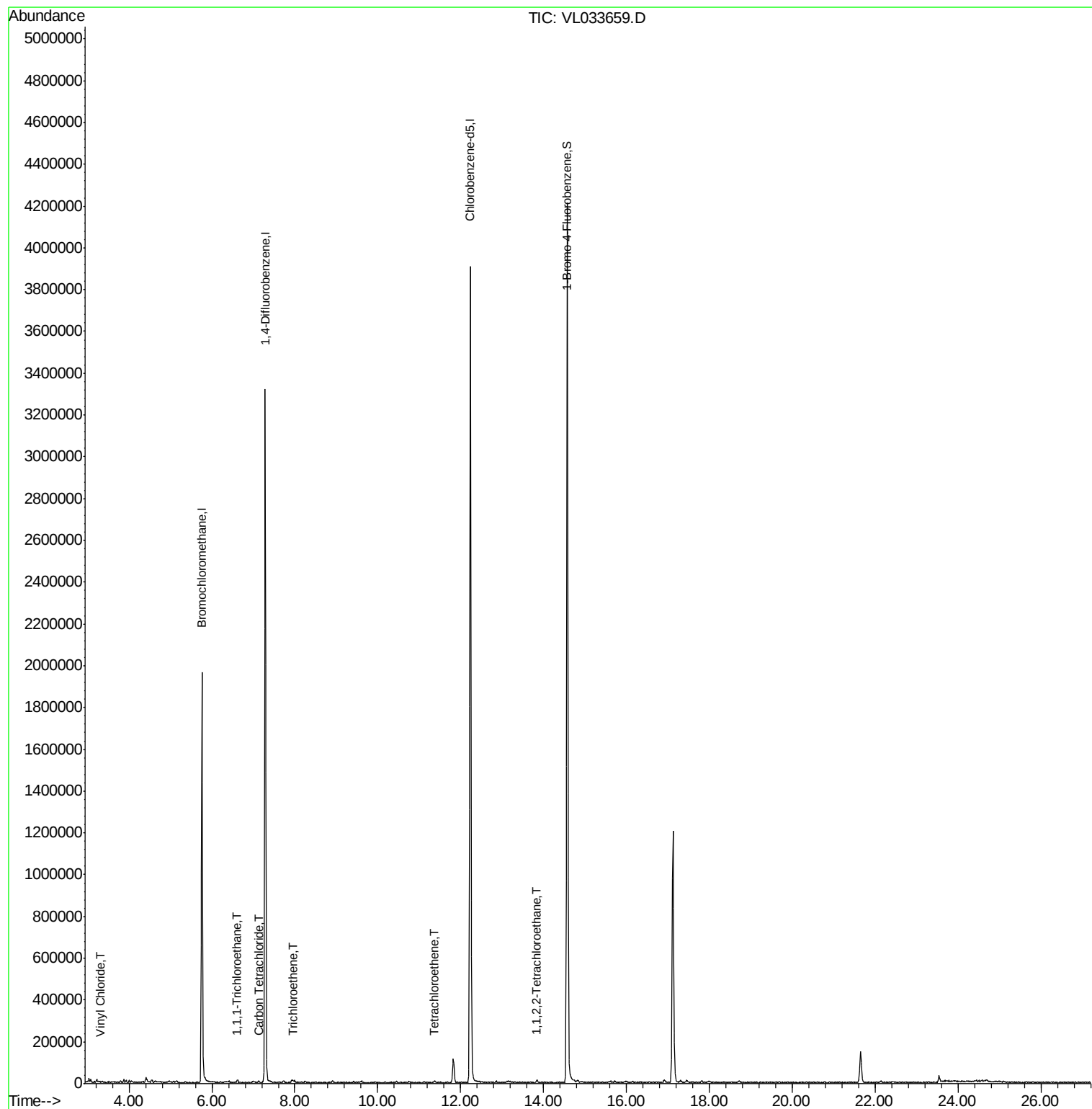
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050619\
Data File : VL033659.D
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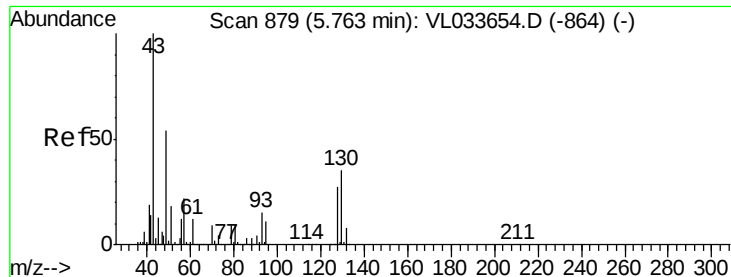
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QLast Update : Mon May 06 12:00:34 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033659.D

Acq: 6 May 2019 14:10

Instrument :

MSVOA_L

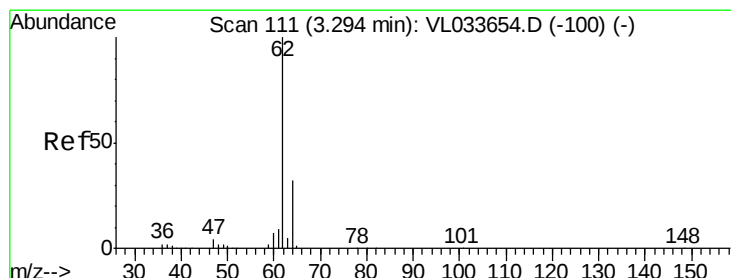
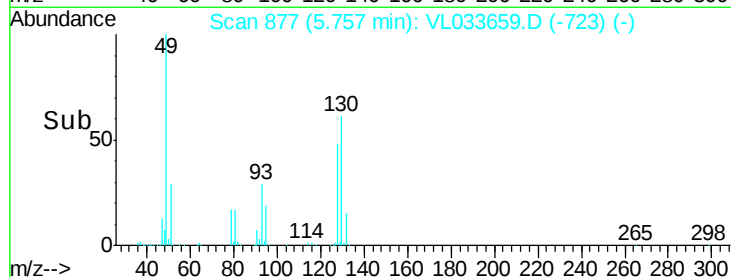
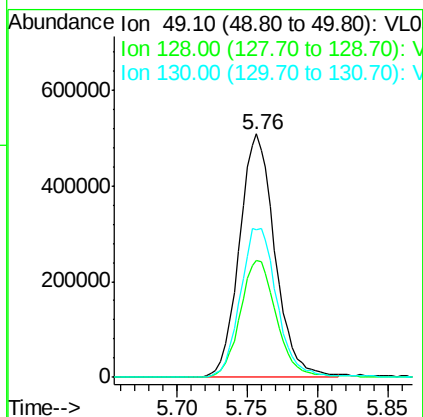
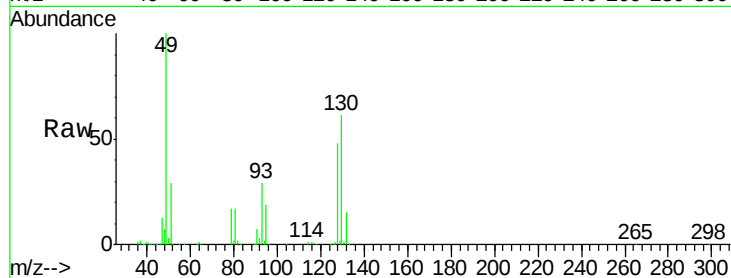
ClientSampleId :

VSTDIC0.03

Tot Ion:	49	Resp:	900545
Ion	Ratio	Lower	Upper
49	100		
128	49.5	24.8	74.4
130	63.9	32.1	96.5

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#5

Vinyl Chloride

Concen: 0.031 ppbv m

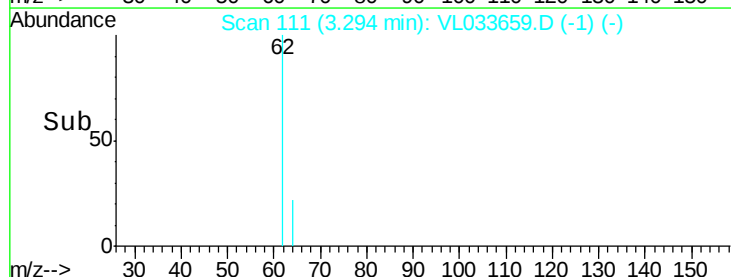
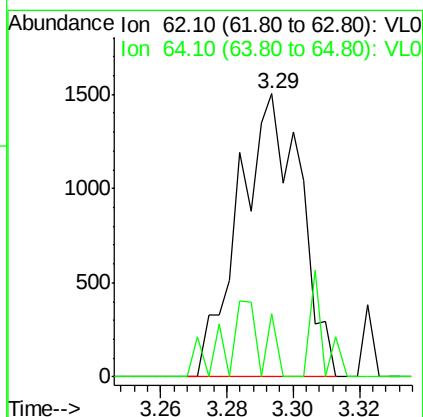
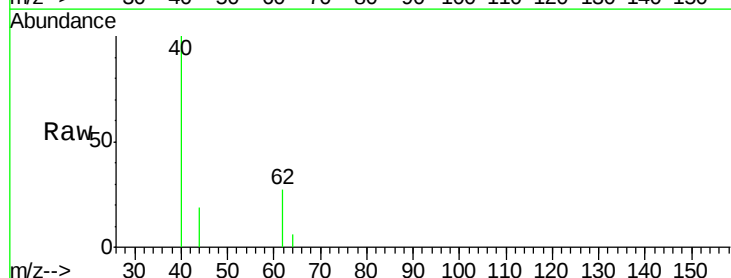
RT: 3.29 min Scan# 111

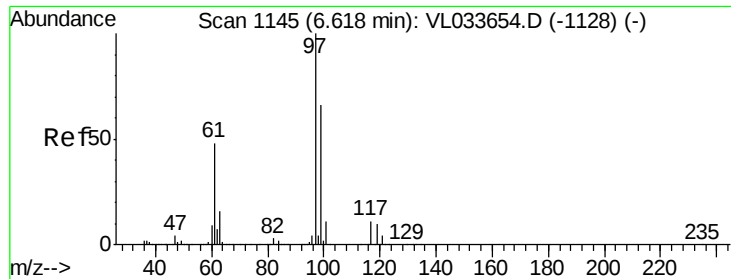
Delta R.T. 0.00 min

Lab File: VL033659.D

Acq: 6 May 2019 14:10

Tgt Ion:	62	Resp:	1939
Ion	Ratio	Lower	Upper
62	100		
64	22.5	25.6	38.4#





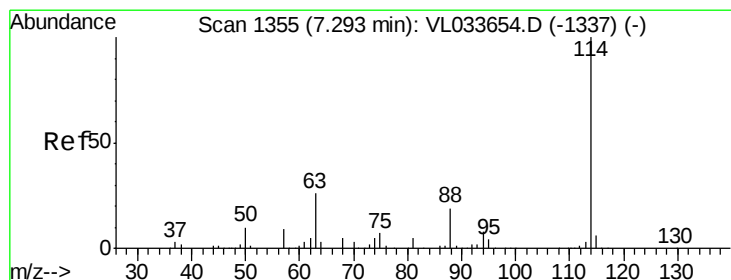
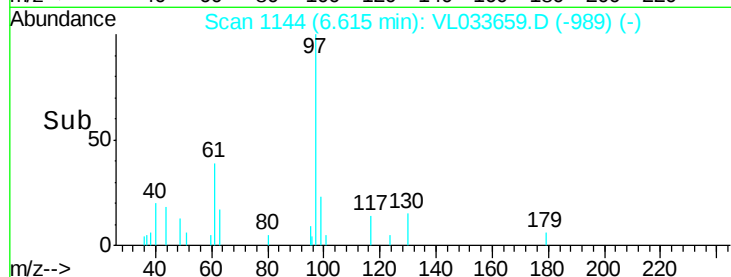
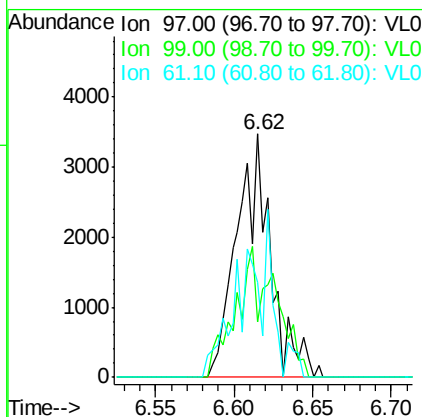
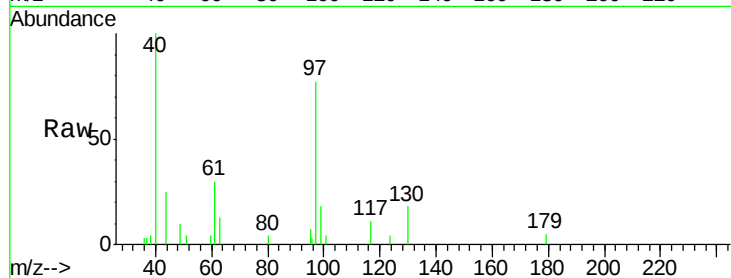
#32
 1,1,1-Trichloroethane
 Concen: 0.031 ppbv m
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VL033659.D
 Acq: 6 May 2019 14:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
97	100		
99	62.9	51.5	77.3
61	60.6	38.5	57.7#

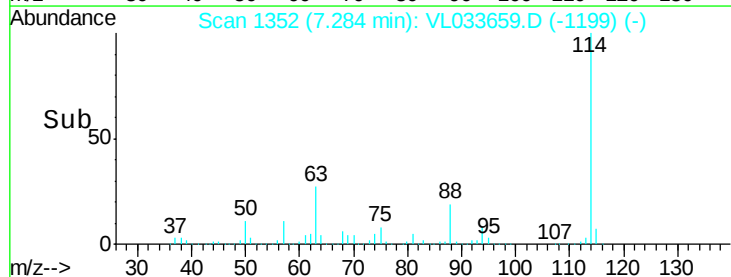
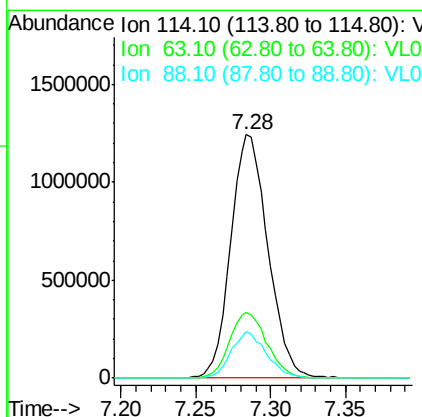
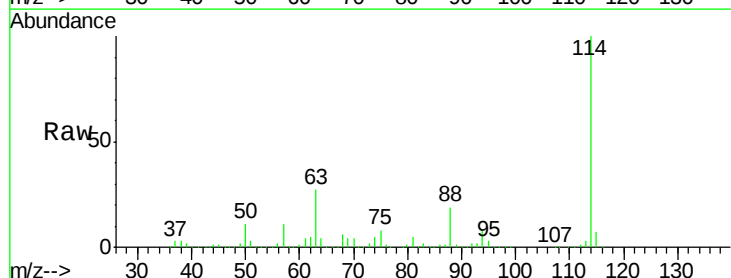
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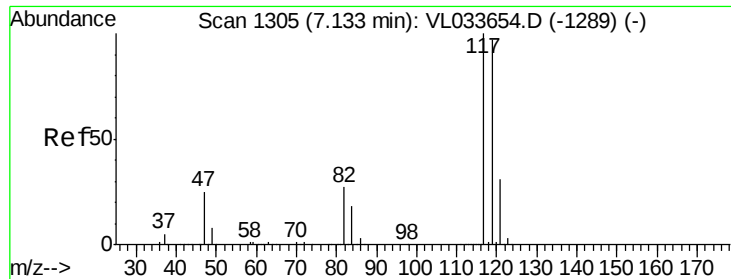
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033659.D
 Acq: 6 May 2019 14:10

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.2	31.8
88	18.2	14.4	21.6





#35

Carbon Tetrachloride

Concen: 0.032 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033659.D

Acq: 6 May 2019 14:10

Instrument :

MSVOA_L

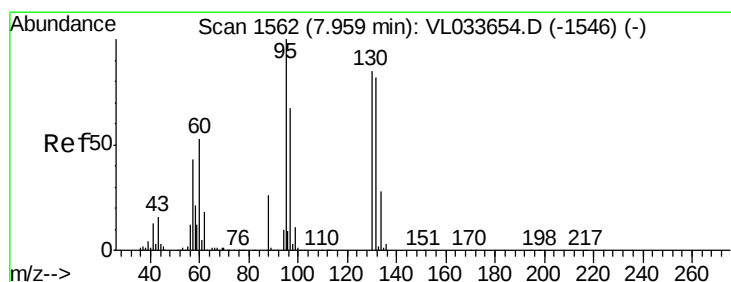
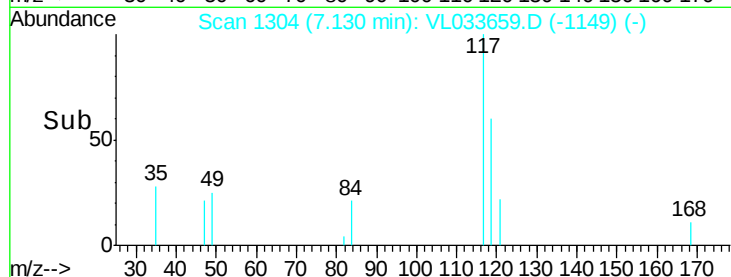
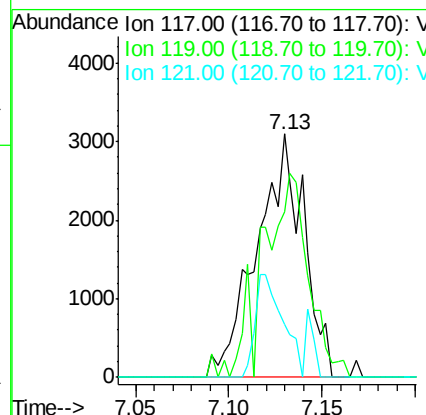
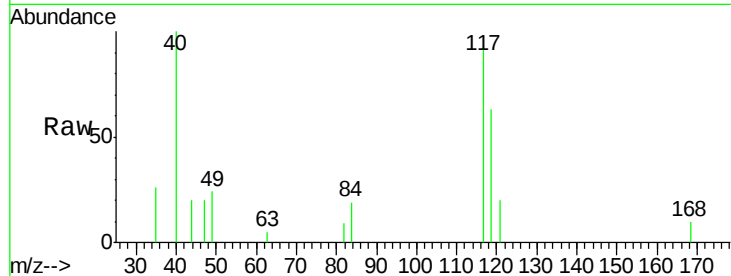
ClientSampleId :

VSTDIC0.03

Tot Ion:	117	Resp:	5435
Ion Ratio	Lower	Upper	
117	100		
119	67.9	77.9	116.9#
121	21.6	25.0	37.6#

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#38

Trichloroethene

Concen: 0.019 ppbv m

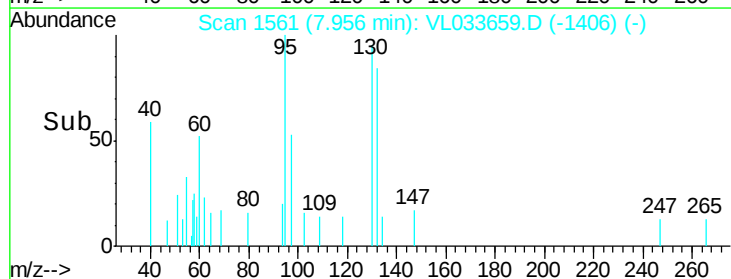
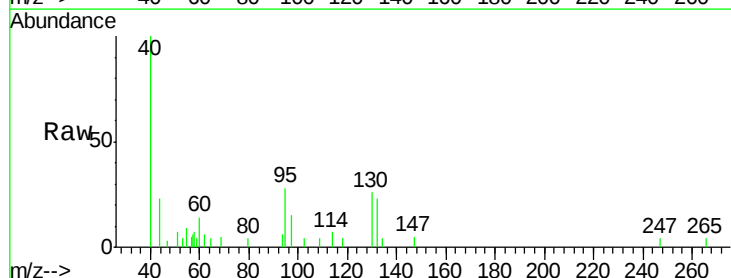
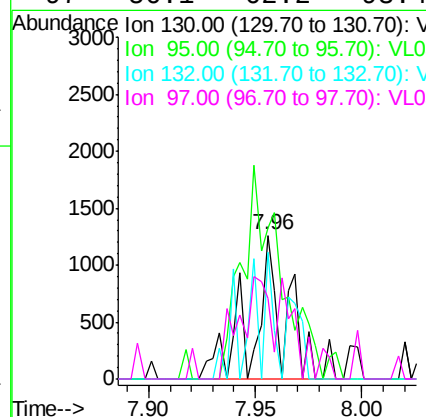
RT: 7.96 min Scan# 1561

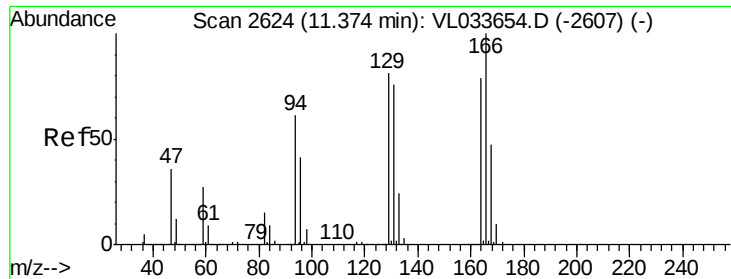
Delta R.T. -0.00 min

Lab File: VL033659.D

Acq: 6 May 2019 14:10

Tgt Ion:	130	Resp:	1414
Ion Ratio	Lower	Upper	
130	100		
95	105.6	93.4	140.0
132	88.5	76.2	114.4
97	56.1	62.2	93.4#





#52

Tetrachloroethene

Concen: 0.023 ppbv m

RT: 11.37 min Scan# 2624

Delta R.T. 0.00 min

Lab File: VL033659.D

Acq: 6 May 2019 14:10

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 1595

Ion Ratio Lower Upper

164 100

166 0.0 100.6 151.0#

129 0.0 81.0 121.6#

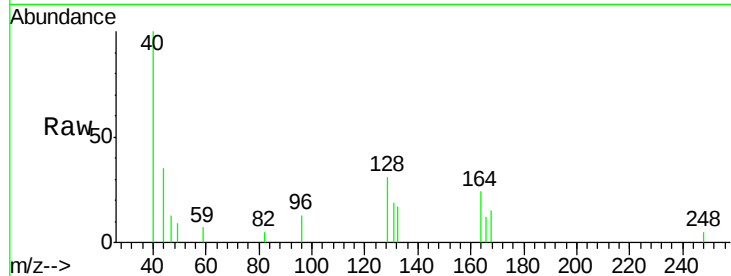
131 79.0 76.4 114.6

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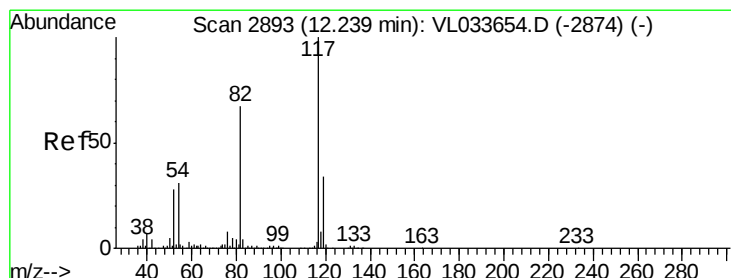
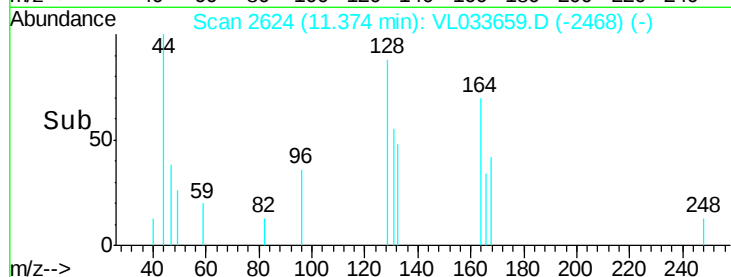
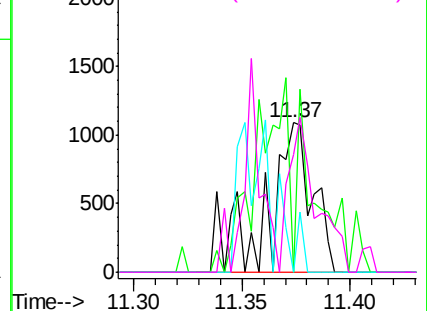


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033659.D

Acq: 6 May 2019 14:10

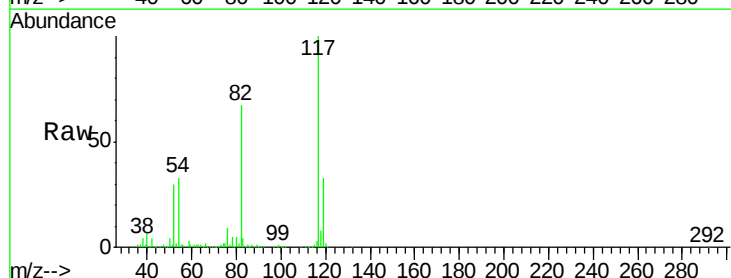
Tgt Ion:117 Resp: 2303875

Ion Ratio Lower Upper

117 100

82 67.8 49.7 74.5

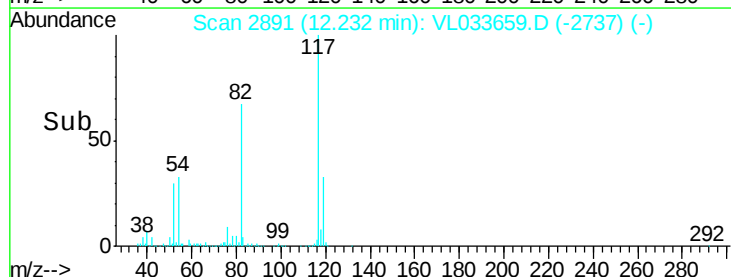
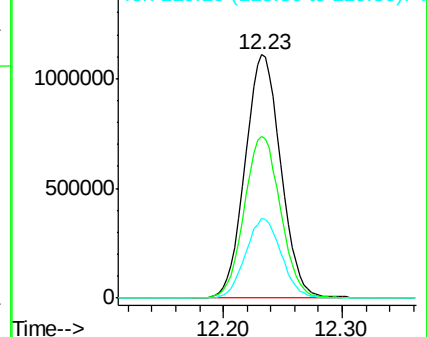
119 32.8 23.3 34.9

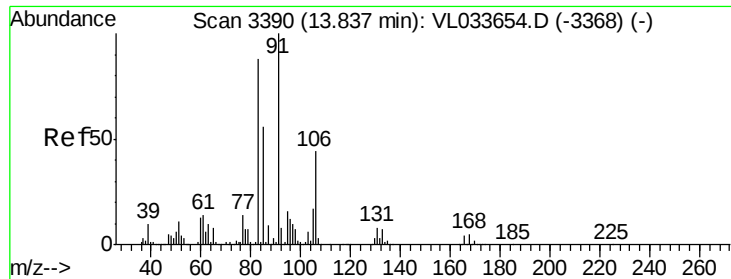


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





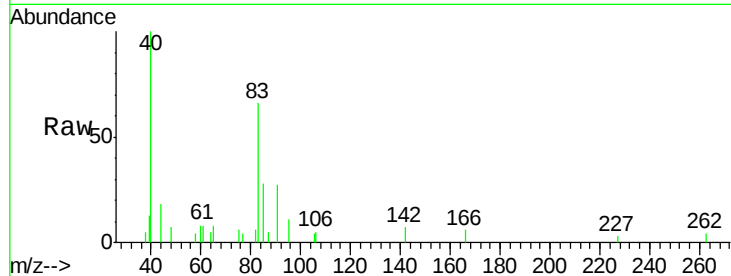
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.030 ppbv m
 RT: 13.82 min Scan# 3386
 Delta R.T. -0.01 min
 Lab File: VL033659.D
 Acq: 6 May 2019 14:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3#
85	58.4	32.5	97.5

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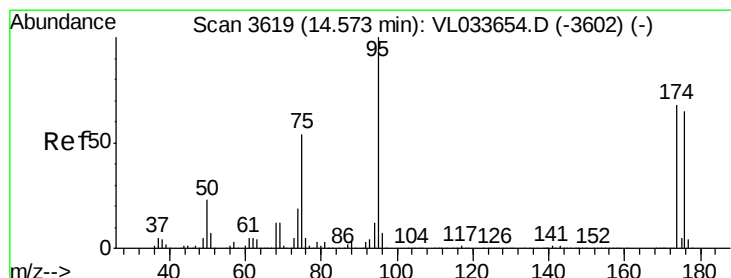
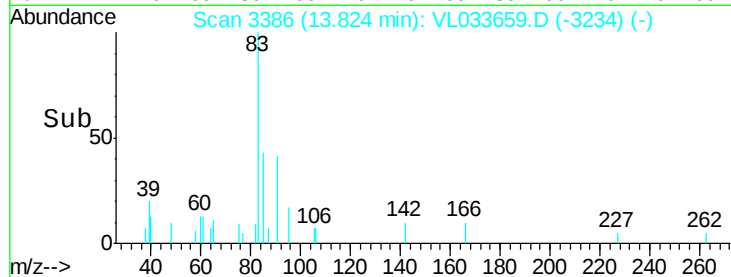
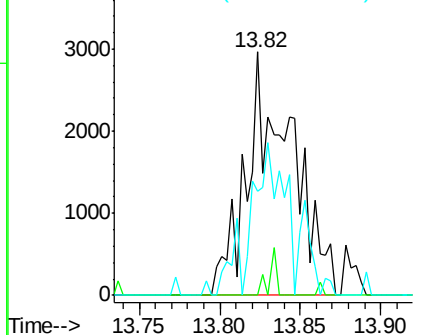


Abundance

Ion 83.00 (82.70 to 83.70): VL0

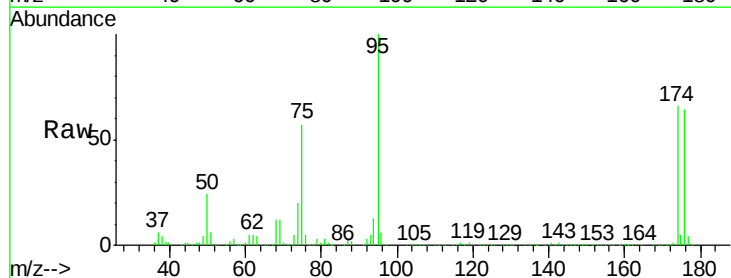
Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.260 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. 0.00 min
 Lab File: VL033659.D
 Acq: 6 May 2019 14:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.1	54.0	81.0
175	4.9	3.8	5.8



Abundance

Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

