

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033705.D
 Acq On : 17 May 2019 5:13
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
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 5/20/2019 12:05:20 PM

Quant Time: May 17 08:12:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1096565	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2424714	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2461561	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2041078	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.28	62	2526m	0.032	ppbv	
32) 1,1,1-Trichloroethane	6.62	97	6172m	0.029	ppbv	
35) Carbon Tetrachloride	7.13	117	5643m	0.028	ppbv	
38) Trichloroethene	7.95	130	2137m	0.027	ppbv	
52) Tetrachloroethene	11.38	164	1809m	0.023	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.84	83	6495m	0.031	ppbv	

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

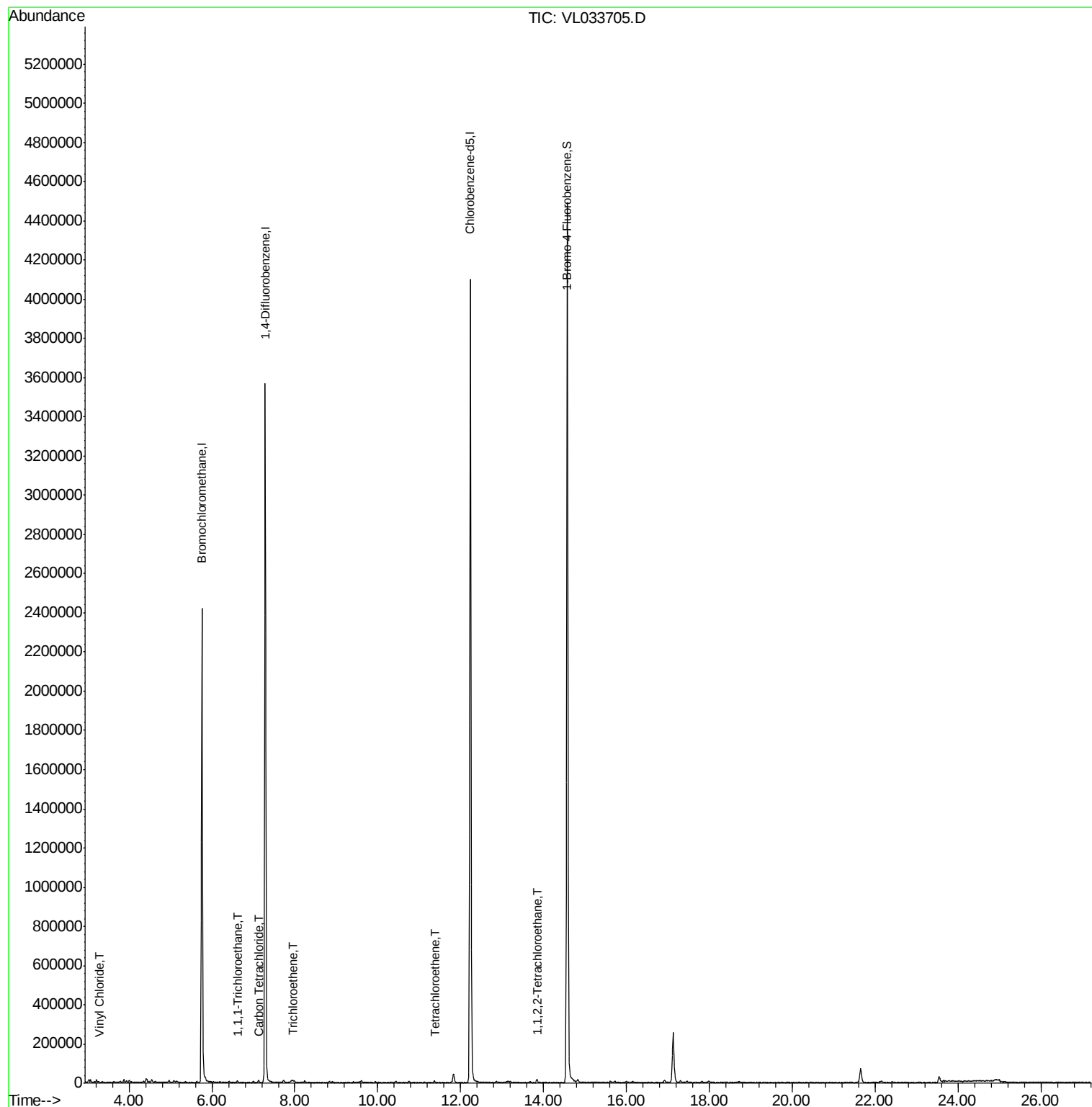
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051719\
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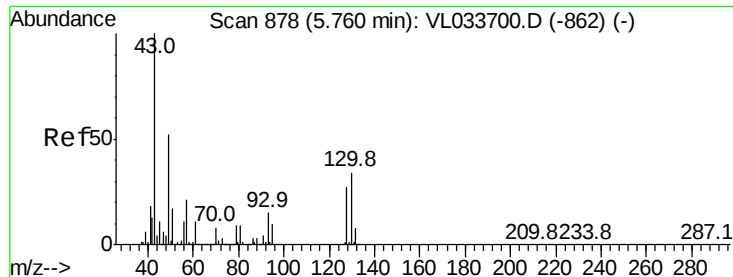
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033705.D

Acq: 17 May 2019 5:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1096565

Ion Ratio Lower Upper

49 100

128 49.1 25.2 75.6

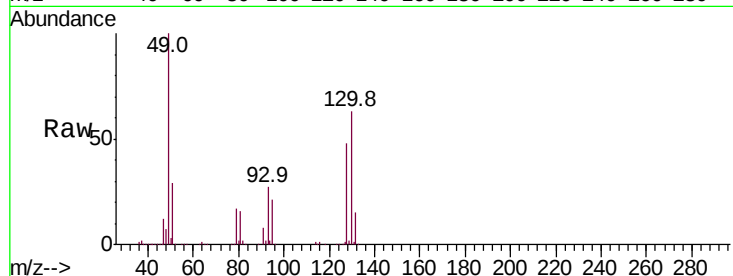
130 63.9 32.5 97.5

Manual Integrations

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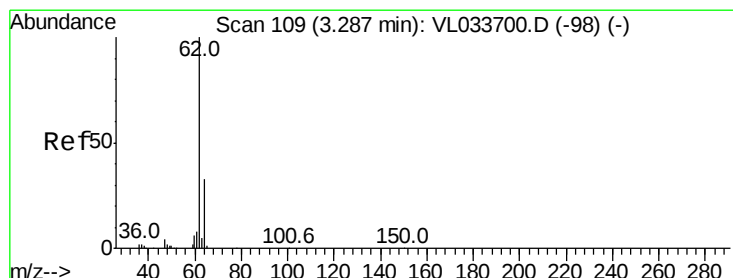
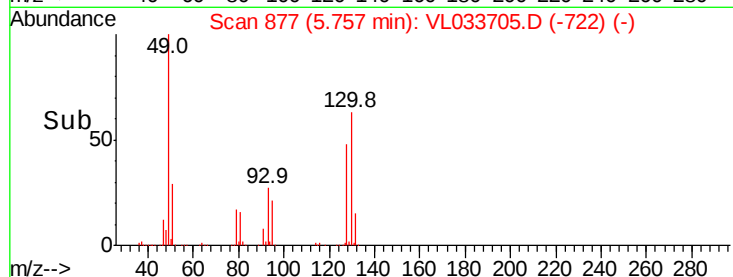
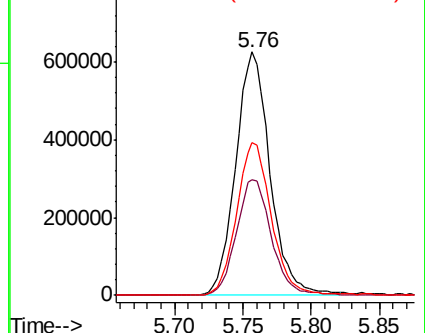
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.032 ppbv m

RT: 3.28 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL033705.D

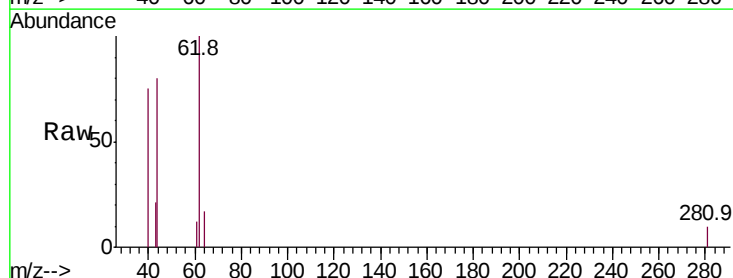
Acq: 17 May 2019 5:13

Tgt Ion: 62 Resp: 2526

Ion Ratio Lower Upper

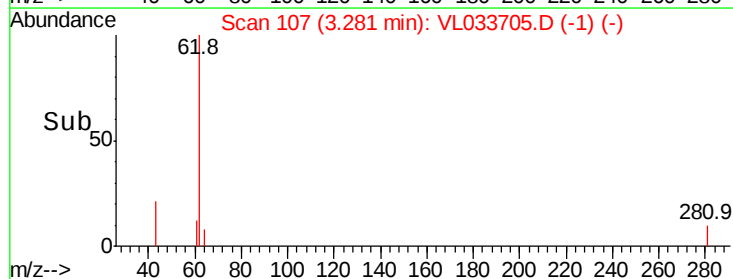
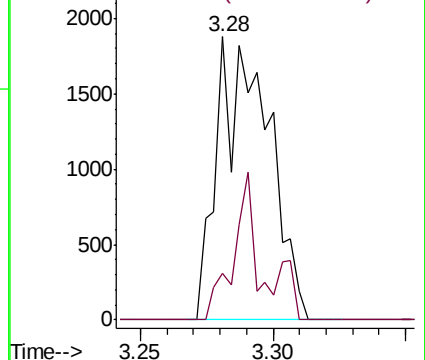
62 100

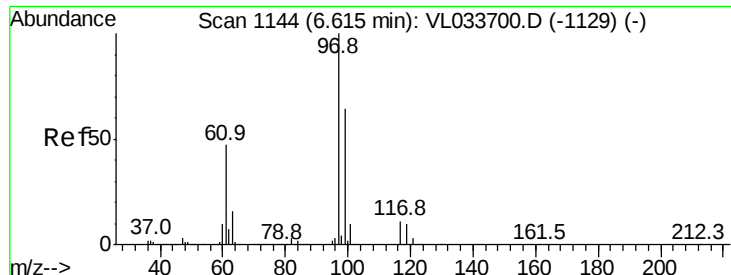
64 16.7 26.4 39.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





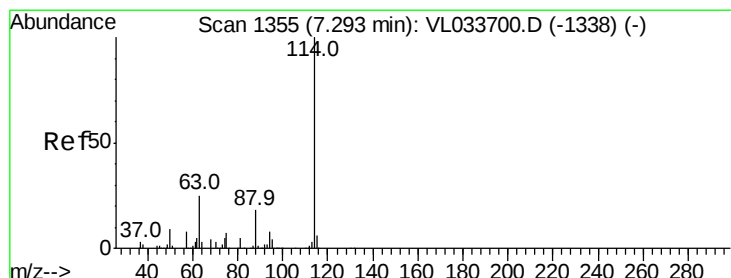
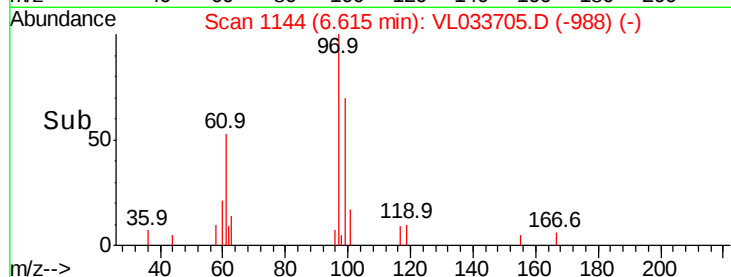
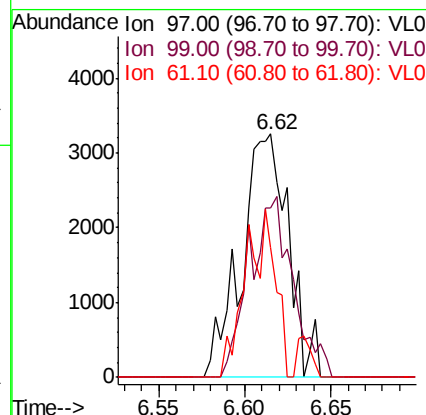
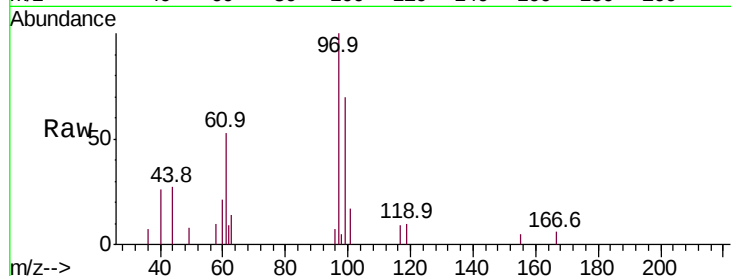
#32
 1,1,1-Trichloroethane
 Concen: 0.029 ppbv m
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: VL033705.D
 Acq: 17 May 2019 5:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
97	100		
99	69.0	51.5	77.3
61	48.8	37.8	56.8

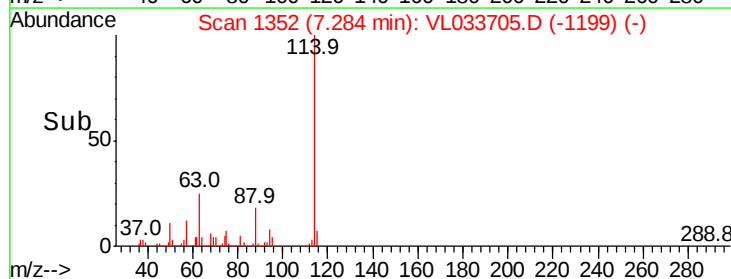
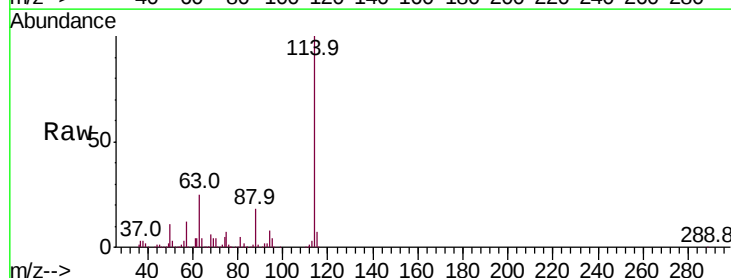
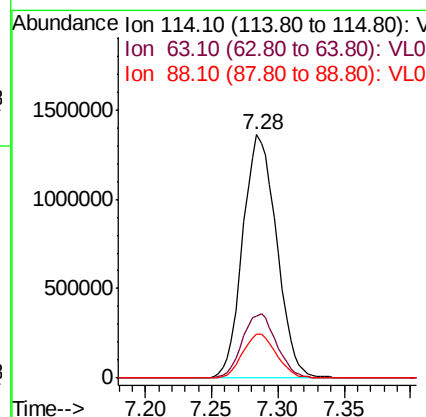
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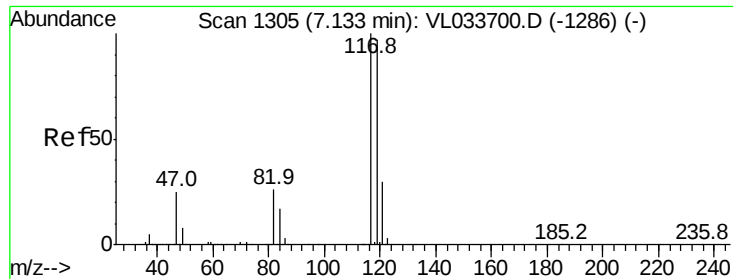
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033705.D
 Acq: 17 May 2019 5:13

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.7	20.9	31.3
88	18.0	14.3	21.5





#35

Carbon Tetrachloride

Concen: 0.028 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VL033705.D

Acq: 17 May 2019 5:13

Instrument :

MSVOA_L

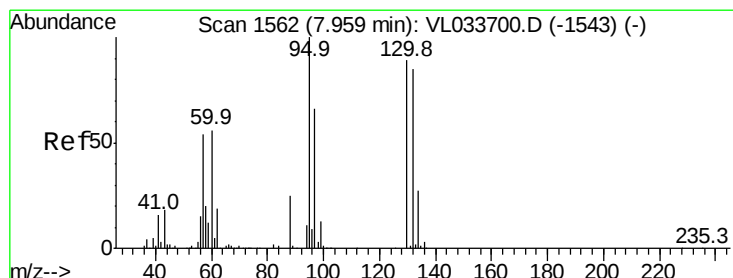
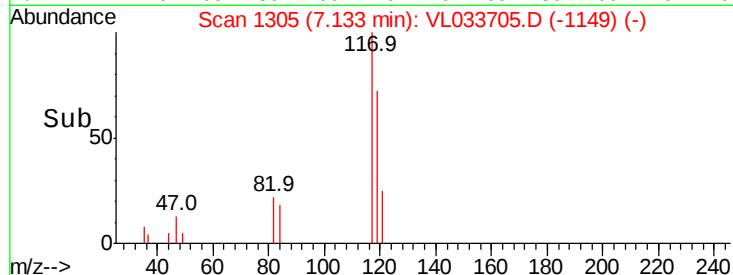
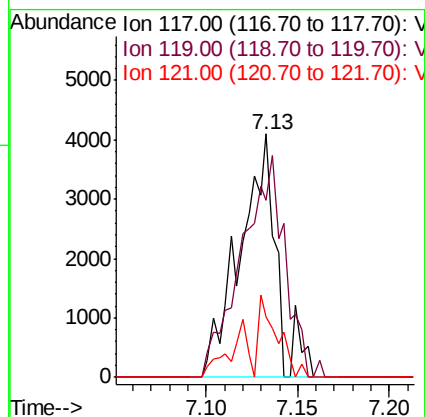
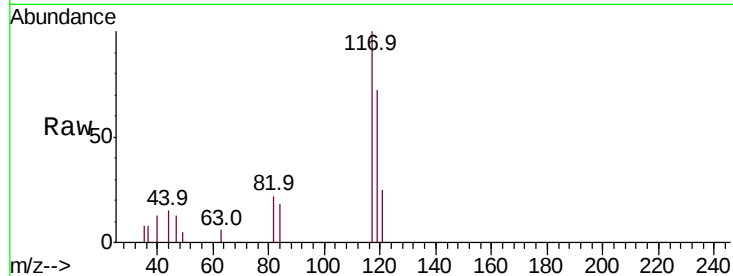
ClientSampleId :

VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	72.5	77.2	115.8#
121	24.8	24.1	36.1

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#38

Trichloroethene

Concen: 0.027 ppbv m

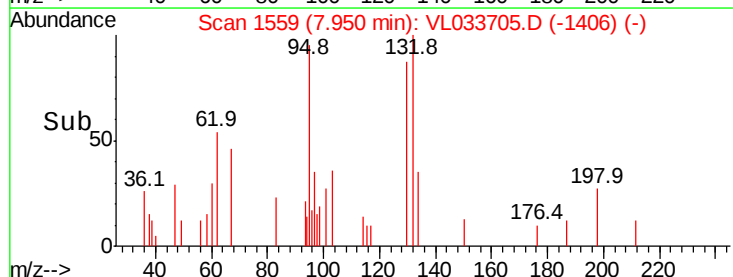
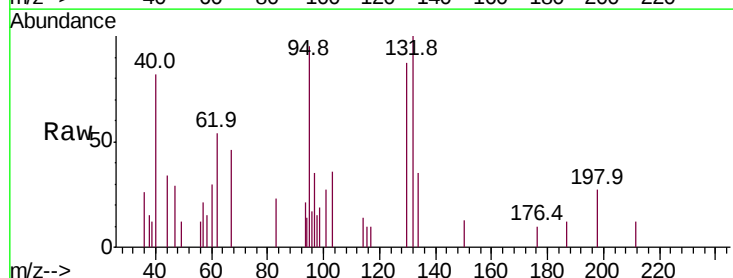
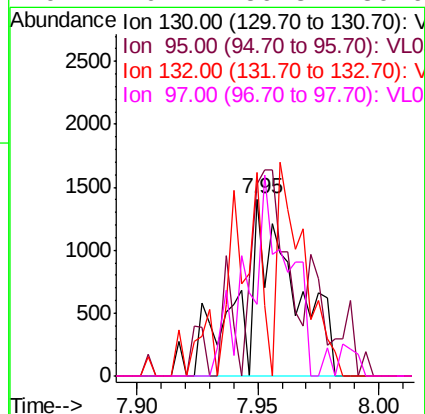
RT: 7.95 min Scan# 1559

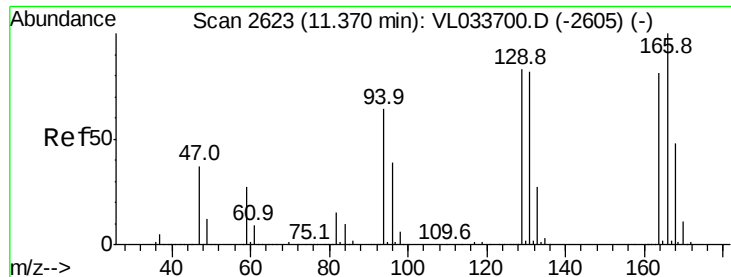
Delta R.T. -0.01 min

Lab File: VL033705.D

Acq: 17 May 2019 5:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.0	90.2	135.4
132	115.3	76.4	114.6#
97	40.7	59.8	89.6#





#52

Tetrachloroethene

Concen: 0.023 ppbv m

RT: 11.38 min Scan# 2626

Delta R.T. 0.01 min

Lab File: VL033705.D

Acq: 17 May 2019 5:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 1809

Ion Ratio Lower Upper

164 100

166 37.3 98.9 148.3#

129 81.1 81.8 122.6#

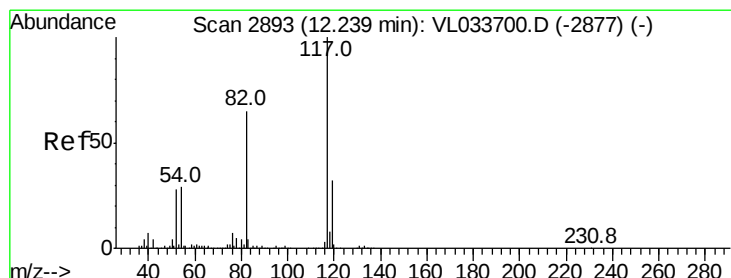
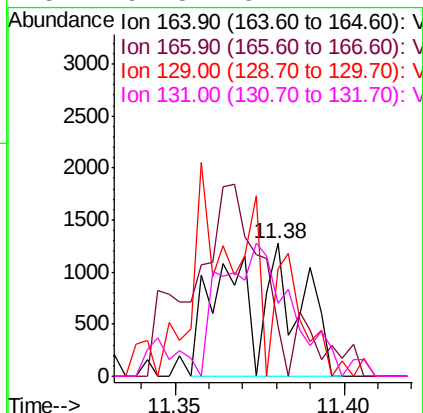
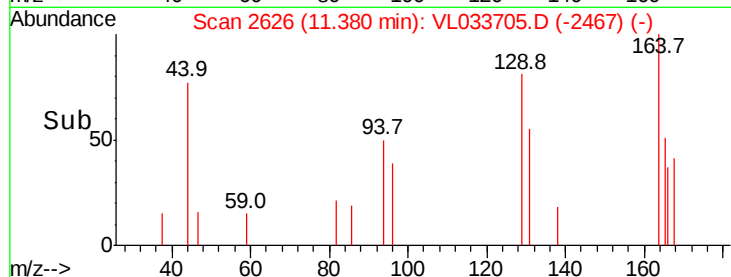
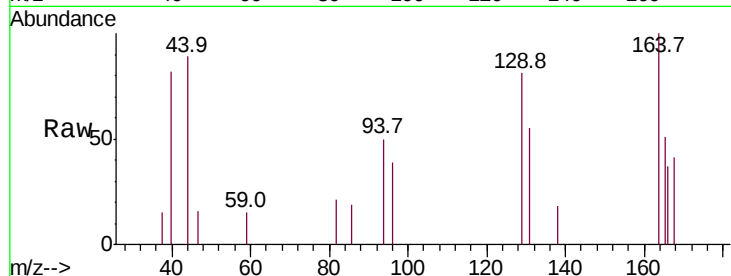
131 54.8 81.1 121.7#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033705.D

Acq: 17 May 2019 5:13

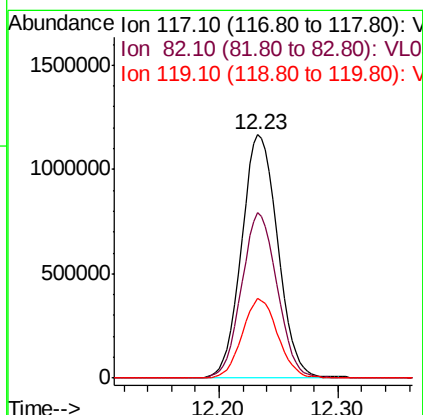
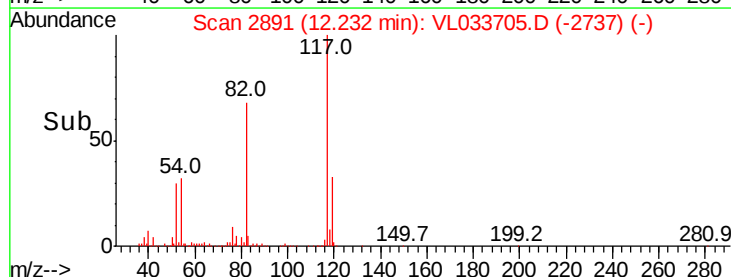
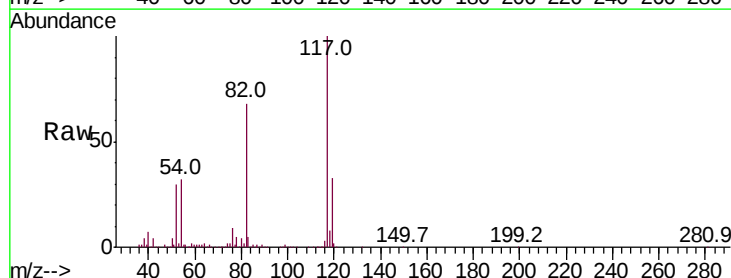
Tgt Ion:117 Resp: 2461561

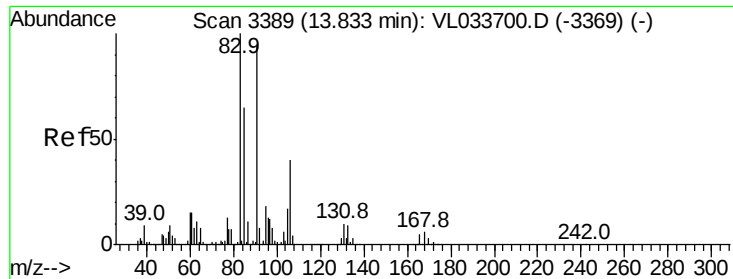
Ion Ratio Lower Upper

117 100

82 67.3 49.4 74.0

119 32.2 24.9 37.3





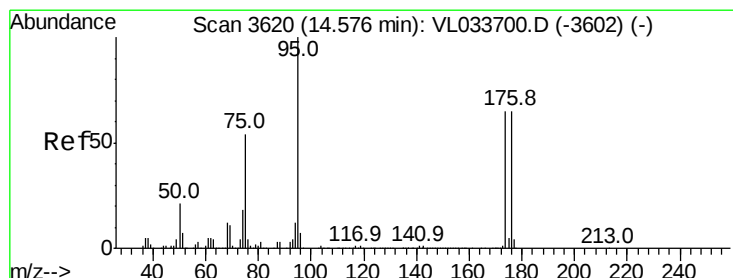
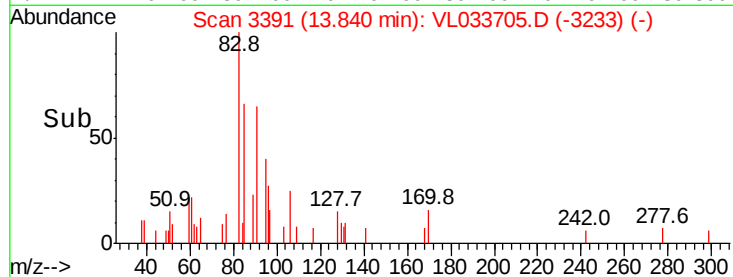
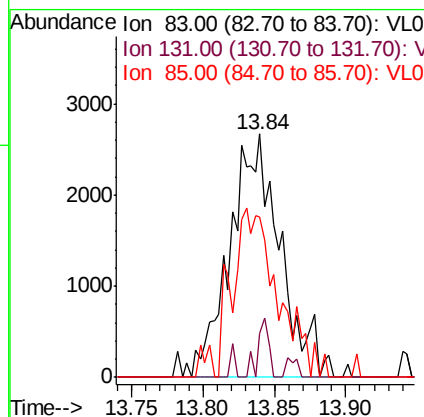
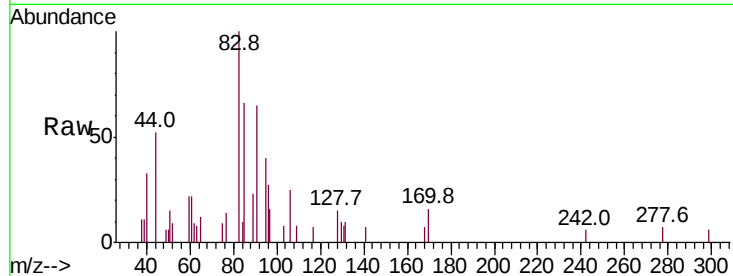
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.031 ppbv m
 RT: 13.84 min Scan# 3391
 Delta R.T. 0.01 min
 Lab File: VL033705.D
 Acq: 17 May 2019 5:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3#
85	66.4	32.3	96.9

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.115 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033705.D
 Acq: 17 May 2019 5:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.2	53.9	80.9
175	4.8	3.8	5.8

