

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033704.D
 Acq On : 17 May 2019 4:34
 Operator : SY/AP
 Sample : VSTDICC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

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 5/20/2019 12:05:13 PM

Quant Time: May 17 08:08:25 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	5.75	49	990979	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2444165	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2532203	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2104131	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	6666	0.093	ppbv	92
32) 1,1,1-Trichloroethane	6.62	97	18756m	0.098	ppbv	
35) Carbon Tetrachloride	7.13	117	16919	0.084	ppbv	84
38) Trichloroethene	7.95	130	6858m	0.085	ppbv	
52) Tetrachloroethene	11.36	164	7540m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	19752m	0.092	ppbv	

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

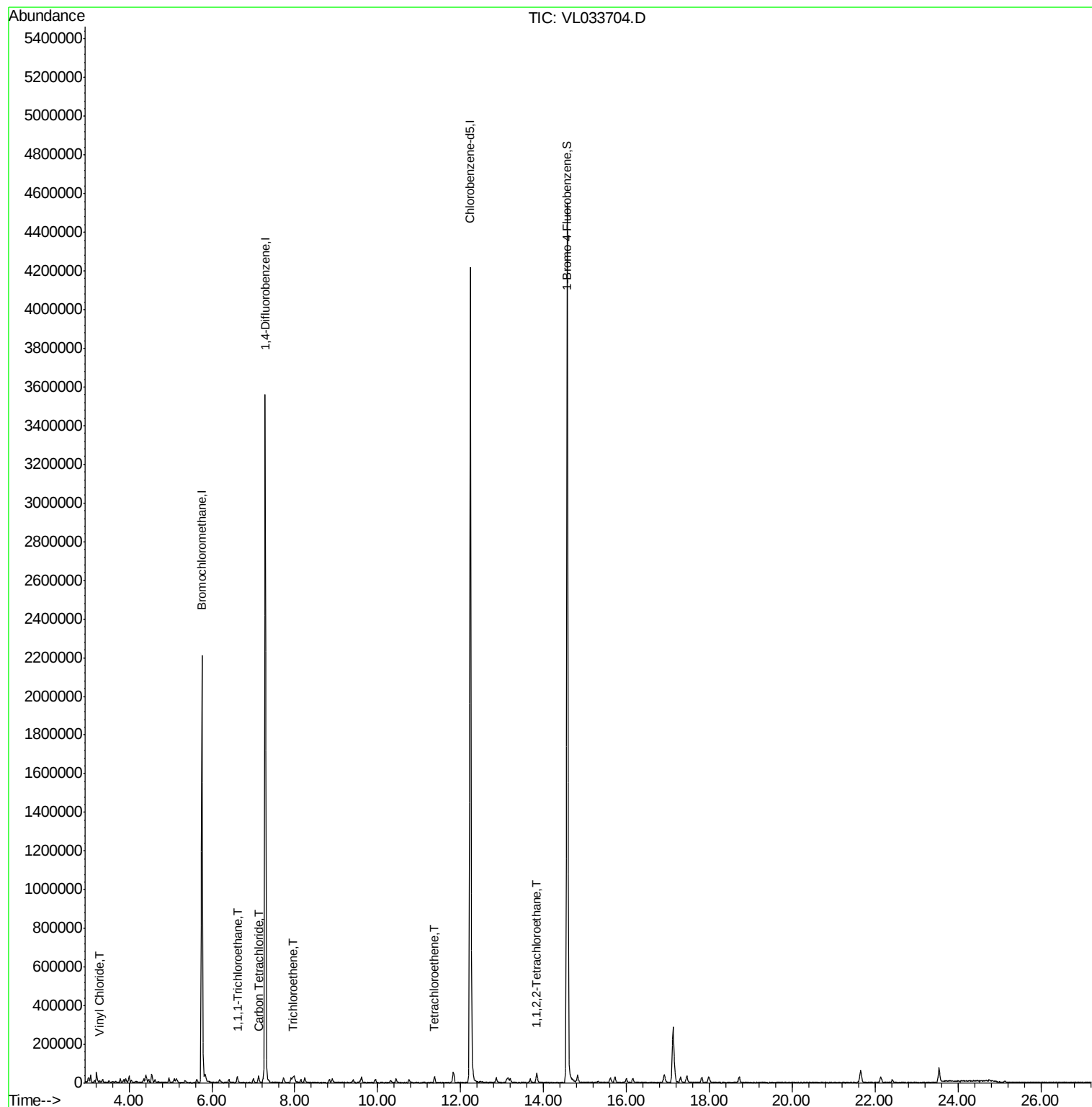
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051719\
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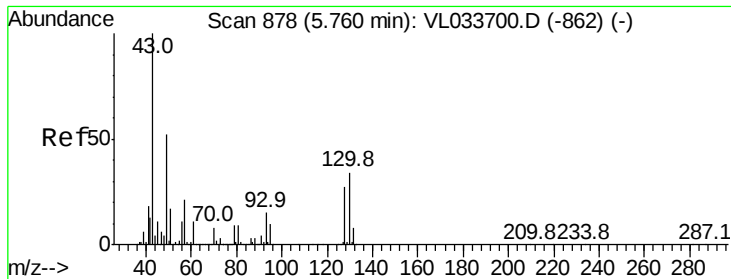
Instrument :
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ClientSampleId :
VSTDIC0.1

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QLast Update : Fri May 17 07:07:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Instrument :

MSVOA_L

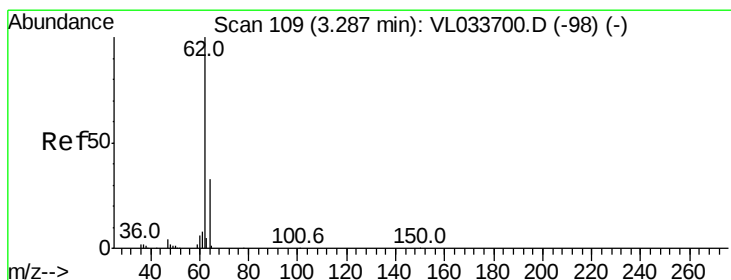
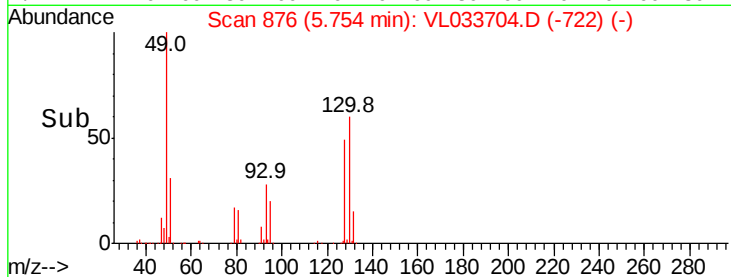
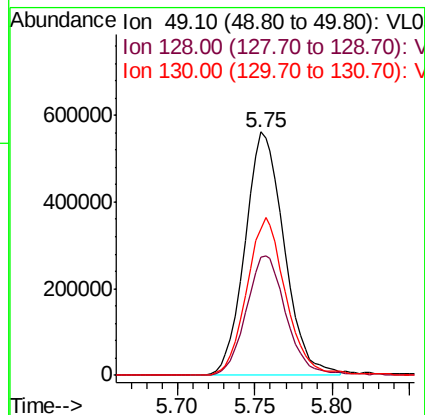
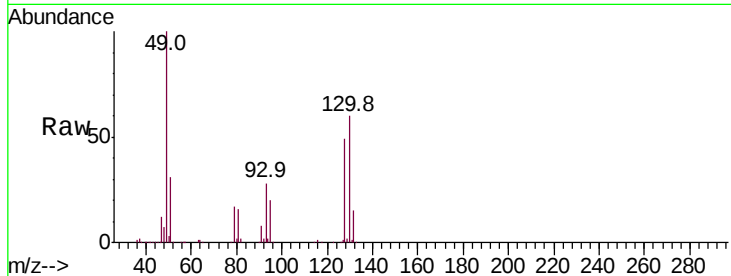
ClientSampleId :

VSTDIC0.1

Tot Ion:	49	Resp:	990979
Ion Ratio	Lower	Upper	
49	100		
128	50.3	25.2	75.6
130	65.2	32.5	97.5

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#5

Vinyl Chloride

Concen: 0.093 ppbv

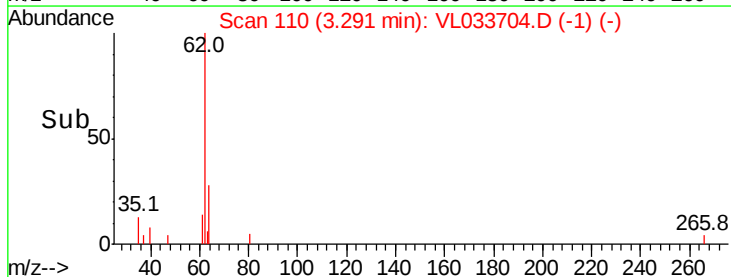
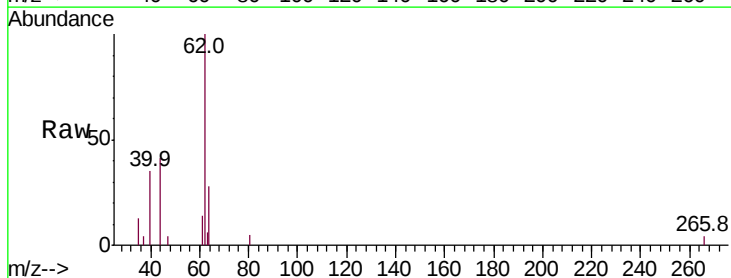
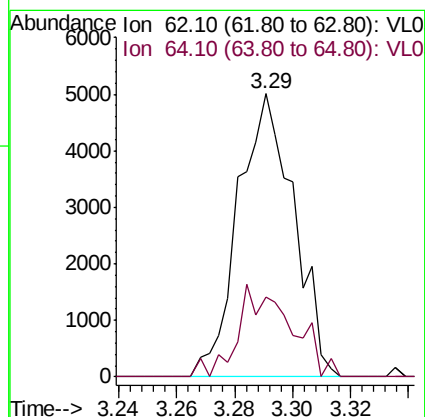
RT: 3.29 min Scan# 110

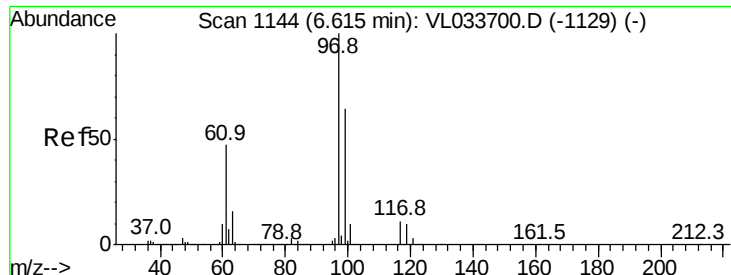
Delta R.T. 0.00 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Tgt Ion:	62	Resp:	6666
Ion Ratio	Lower	Upper	
62	100		
64	28.3	26.4	39.6





#32

1,1,1-Trichloroethane

Concen: 0.098 ppbv m

RT: 6.62 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Instrument :

MSVOA_L

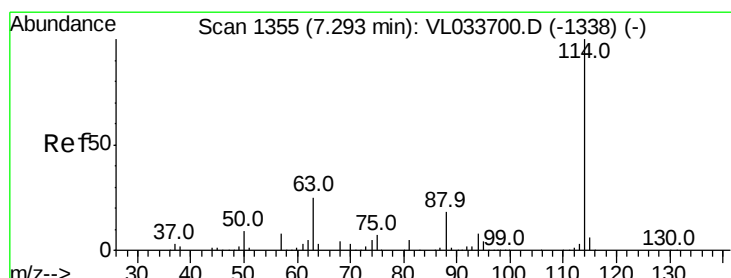
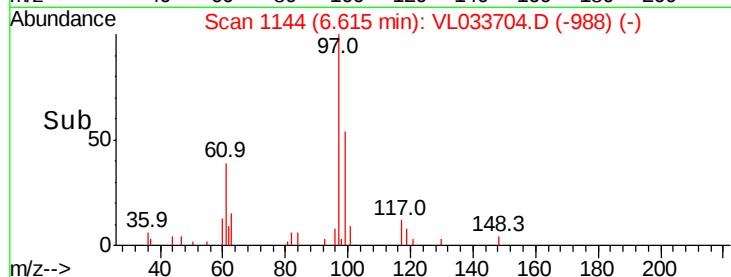
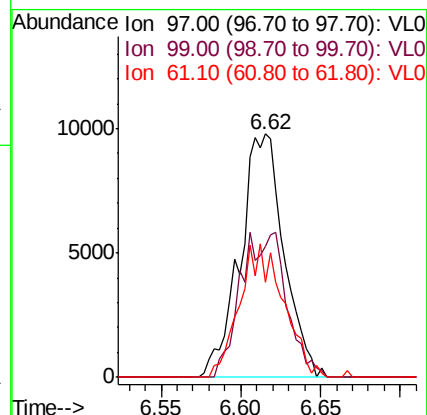
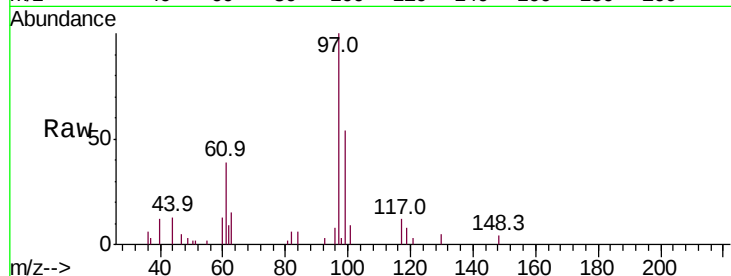
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	18756
Ion	Ratio	Lower	Upper
97	100		
99	62.0	51.5	77.3
61	54.9	37.8	56.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

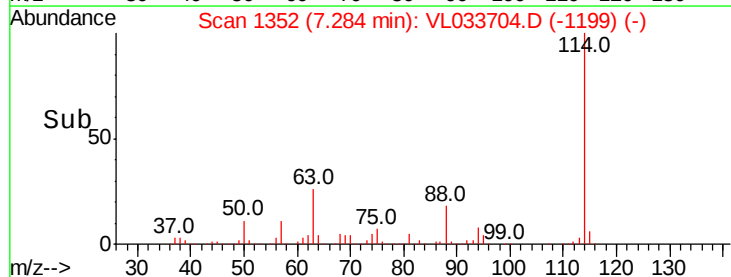
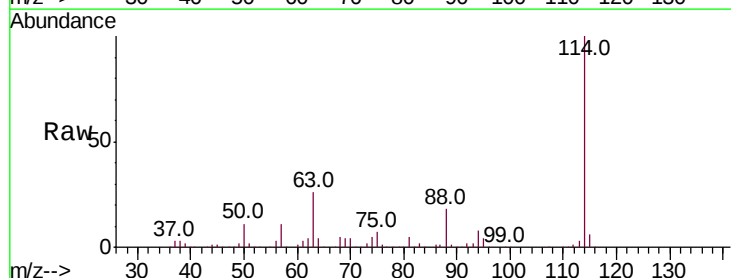
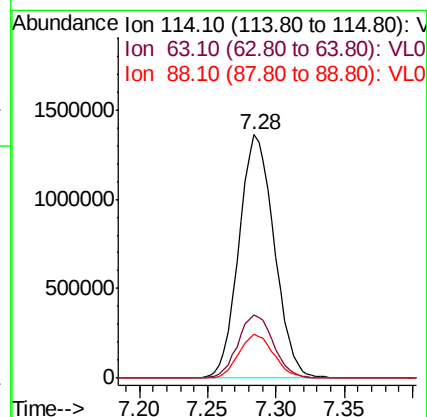
RT: 7.28 min Scan# 1352

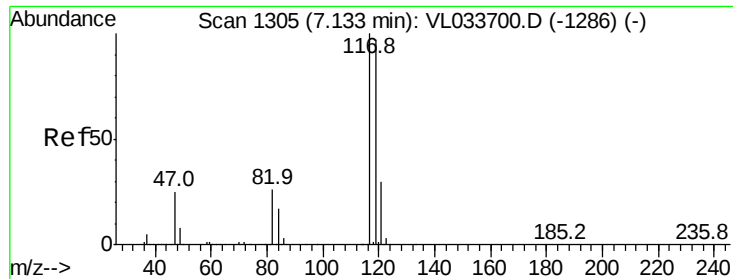
Delta R.T. -0.01 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Tgt Ion:	114	Resp:	2444165
Ion	Ratio	Lower	Upper
114	100		
63	26.2	20.9	31.3
88	17.8	14.3	21.5





#35

Carbon Tetrachloride

Concen: 0.084 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Instrument :

MSVOA_L

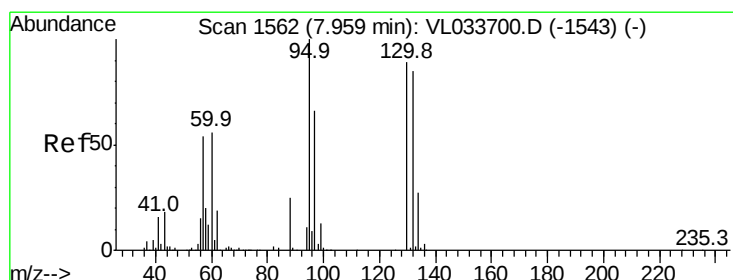
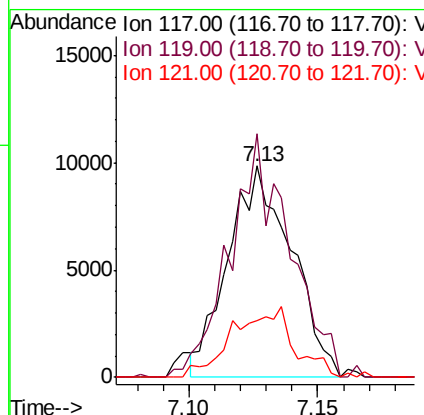
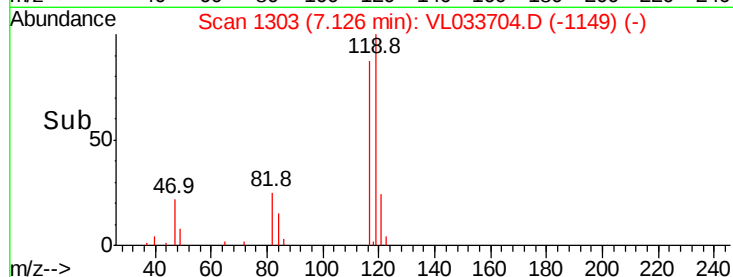
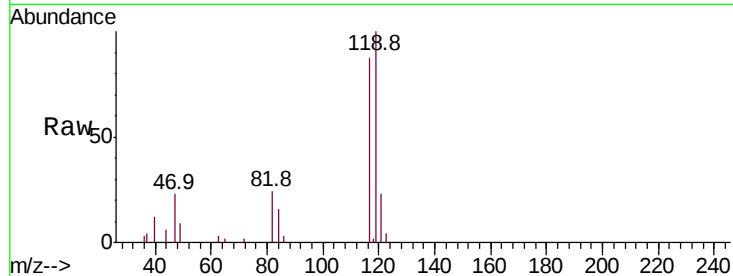
ClientSampleId :

VSTDIC0.1

Tot Ion	Ratio	Resp	Lower	Upper
117	100	16919		
119	115.2	77.2	115.8	
121	26.8	24.1	36.1	

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#38

Trichloroethene

Concen: 0.085 ppbv m

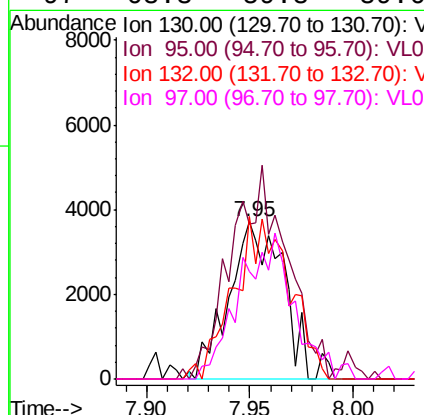
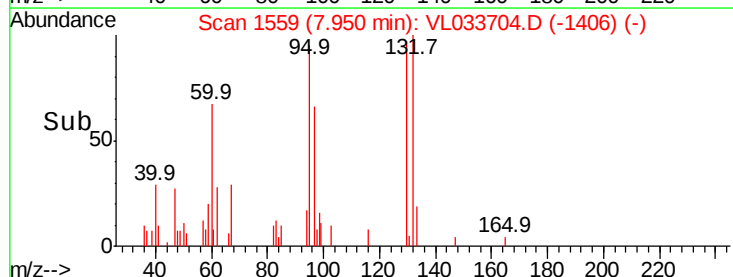
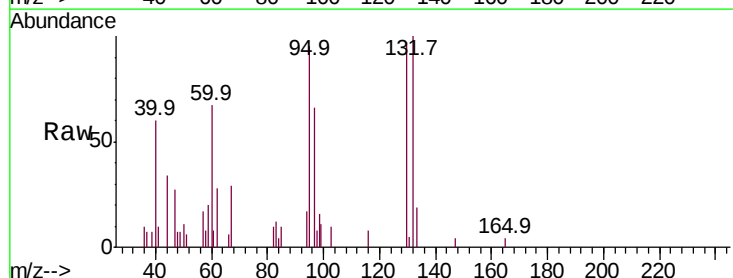
RT: 7.95 min Scan# 1559

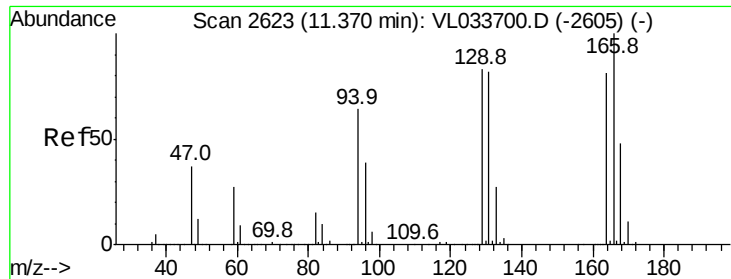
Delta R.T. -0.01 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	6858		
95	98.7	90.2	135.4	
132	103.5	76.4	114.6	
97	68.3	59.8	89.6	





#52

Tetrachloroethene

Concen: 0.096 ppbv m

RT: 11.36 min Scan# 2621

Delta R.T. -0.01 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 7540

Ion Ratio Lower Upper

164 100

166 97.7 98.9 148.3#

129 78.1 81.8 122.6#

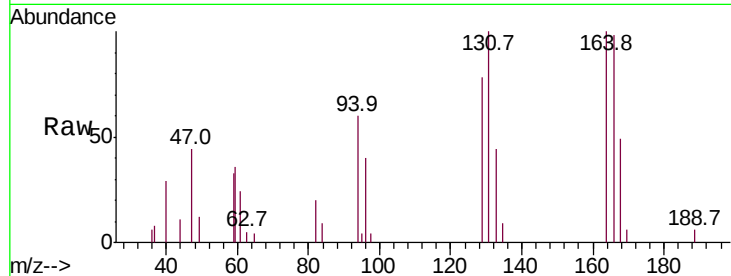
131 99.8 81.1 121.7

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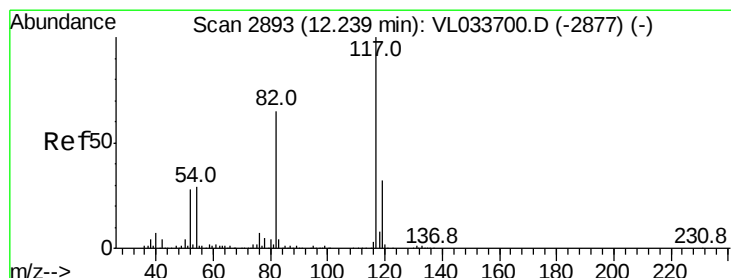
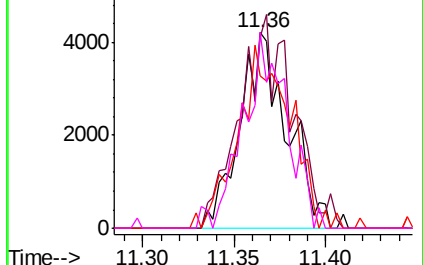
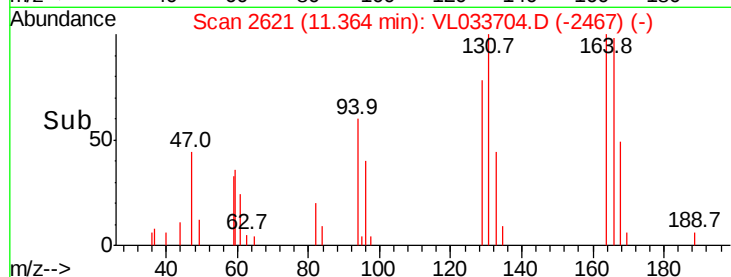


Abundance Ion 163.90 (163.60 to 164.60): V

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: VL033704.D

Acq: 17 May 2019 4:34

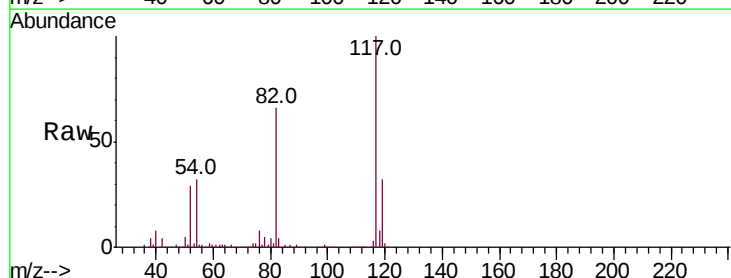
Tgt Ion:117 Resp: 2532203

Ion Ratio Lower Upper

117 100

82 67.1 49.4 74.0

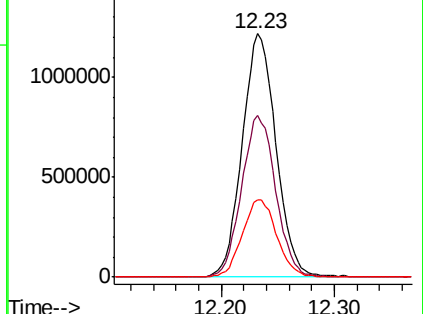
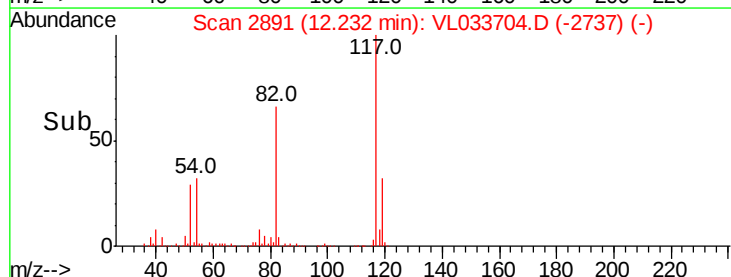
119 32.6 24.9 37.3

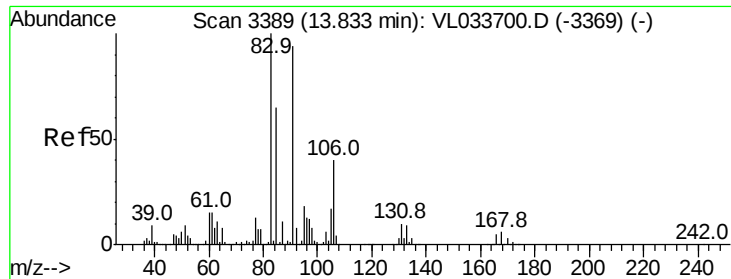


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.092 ppbv

RT: 13.83 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 83 Resp: 19752

Ion Ratio Lower Upper

83 100

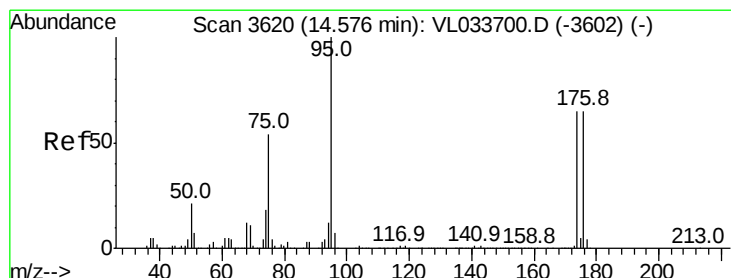
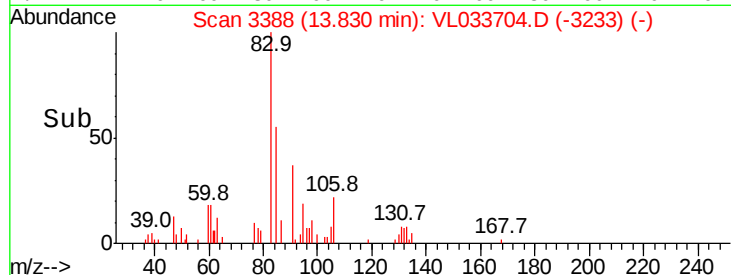
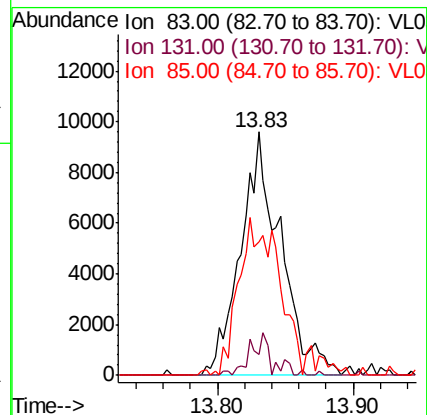
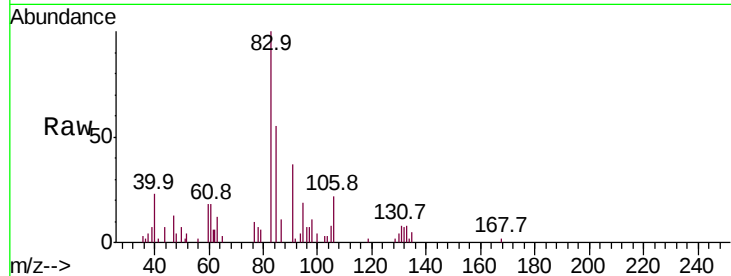
131 9.0 4.8 14.3

85 70.4 32.3 96.9

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.136 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033704.D

Acq: 17 May 2019 4:34

Tgt Ion: 95 Resp: 2104131

Ion Ratio Lower Upper

95 100

174 65.6 53.9 80.9

175 4.9 3.8 5.8

