

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037169.D
 Acq On : 16 Jun 2021 12:33
 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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 6/17/2021 5:37:24 PM

Quant Time: Jun 16 13:58:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 13:58:53 2021
 QLast Update : Wed Jun 16 11:33:05 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1429408	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4274909	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3731766	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2776366	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.27	62	3548m	0.040	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	11800m	0.048	ppbv	
35) Carbon Tetrachloride	7.03	117	9390m	0.036	ppbv	
38) Trichloroethene	7.84	130	6647m	0.045	ppbv	
52) Tetrachloroethene	11.22	164	6819m	0.049	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.70	83	9411m	0.035	ppbv	

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

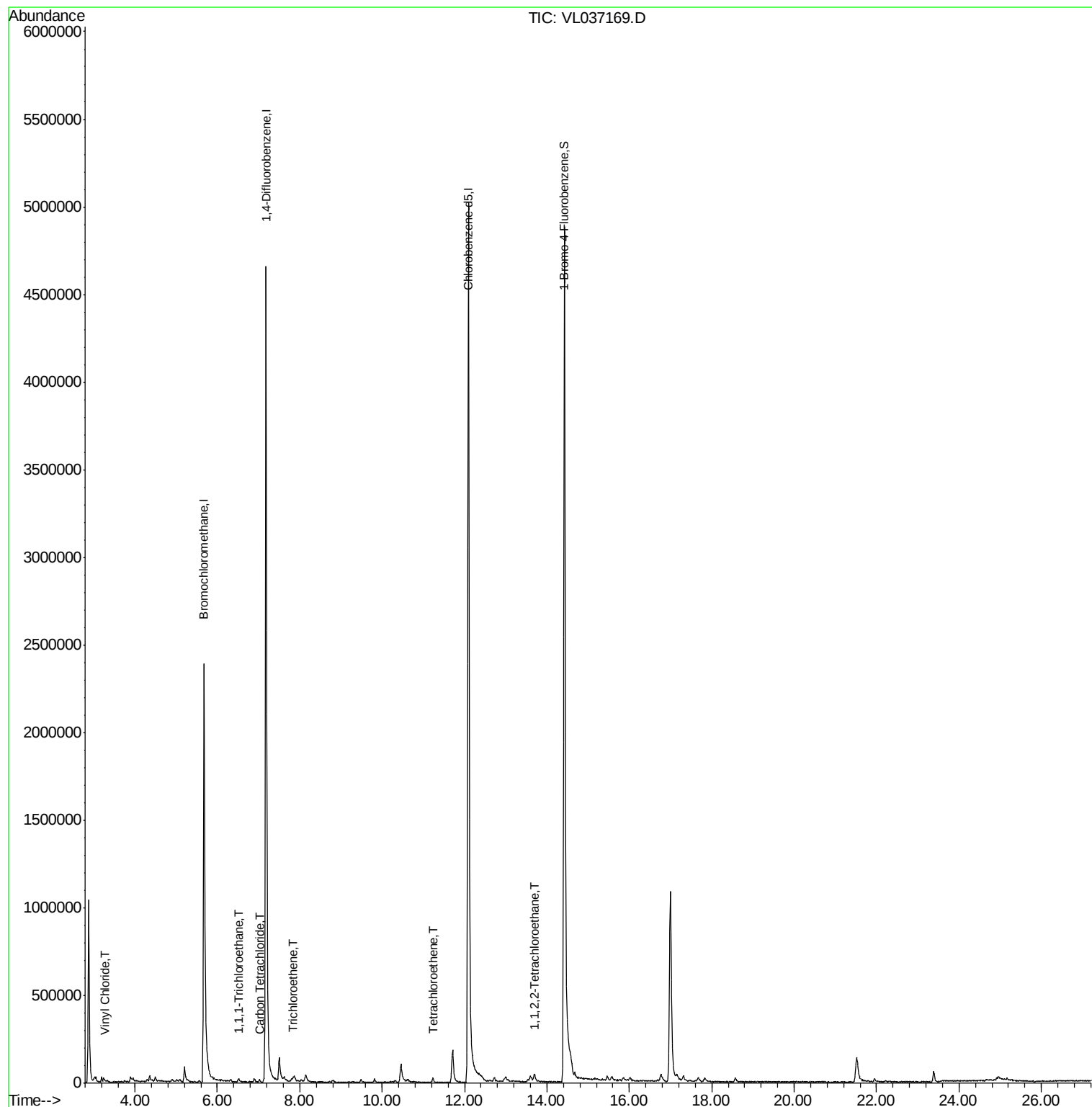
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061621\
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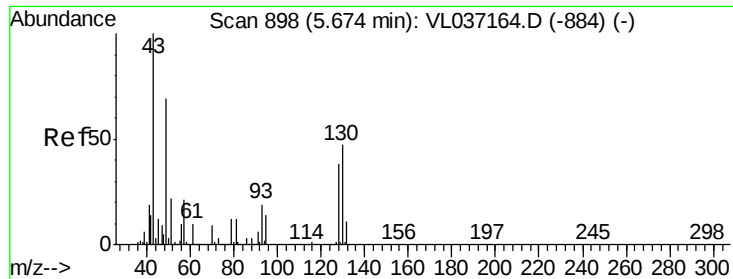
Instrument :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
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QLast Update : Wed Jun 16 11:33:05 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1429408

Ion Ratio Lower Upper

49 100

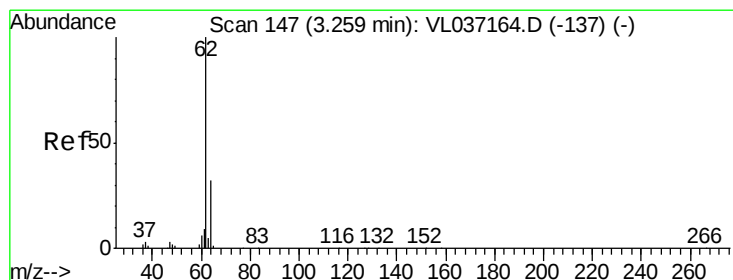
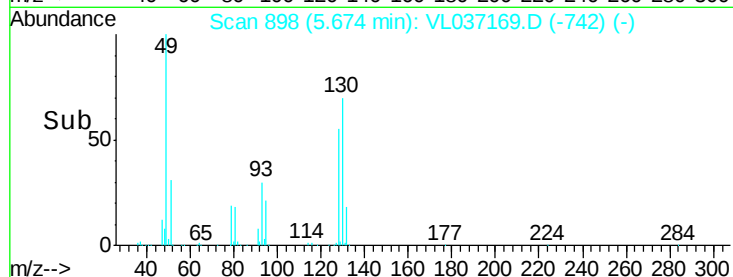
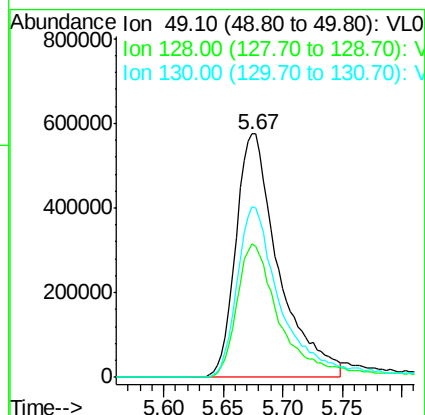
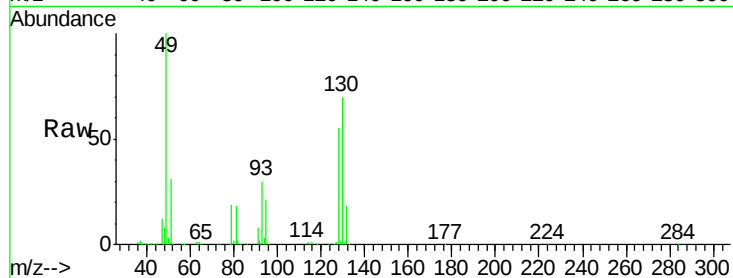
128 57.7 29.3 88.0

130 75.3 35.9 107.8

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#5

Vinyl Chloride

Concen: 0.040 ppbv m

RT: 3.27 min Scan# 151

Delta R.T. 0.01 min

Lab File: VL037169.D

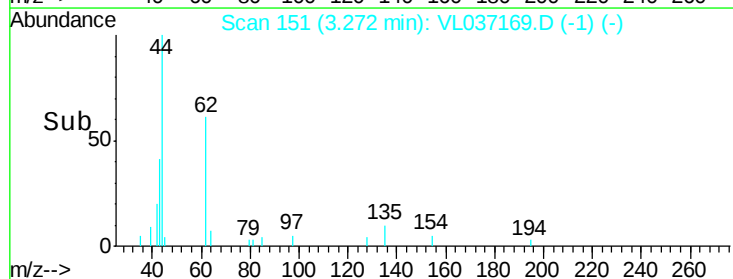
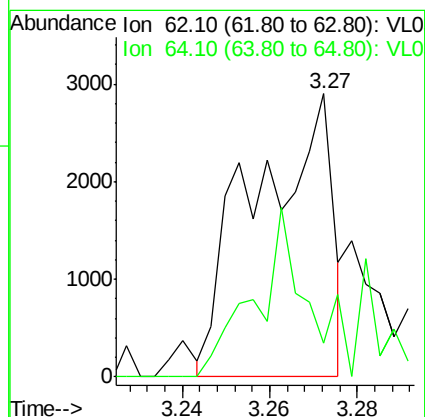
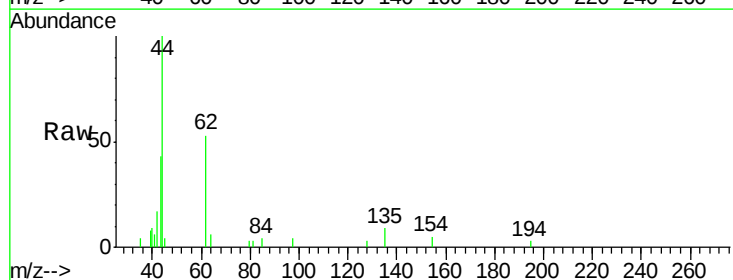
Acq: 16 Jun 2021 12:33

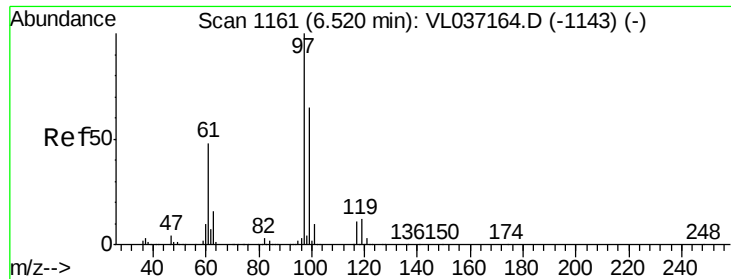
Tgt Ion: 62 Resp: 3548

Ion Ratio Lower Upper

62 100

64 12.0 25.6 38.4#





#32

1,1,1-Trichloroethane

Concen: 0.048 ppbv m

RT: 6.52 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

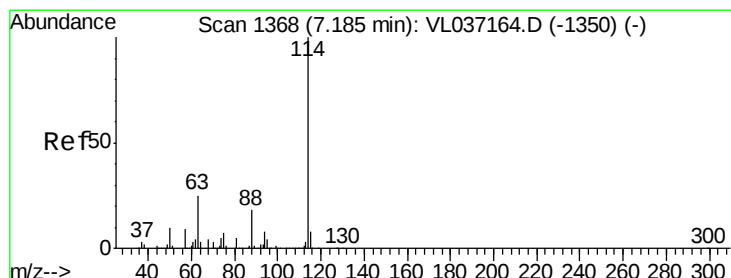
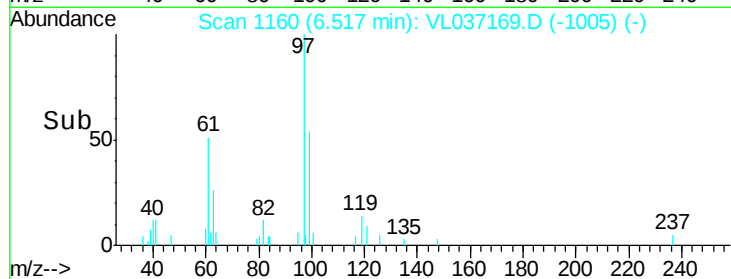
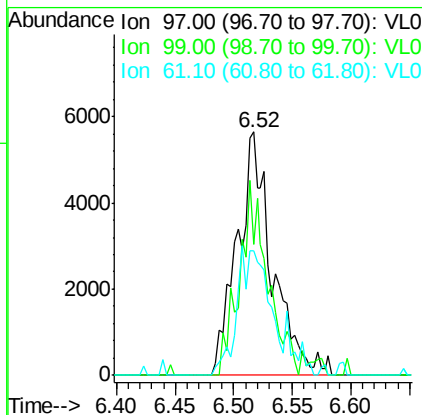
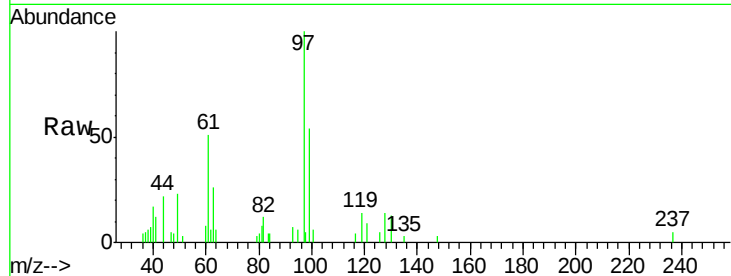
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	11800
Ion	Ratio	Lower	Upper
97	100		
99	67.8	52.2	78.4
61	0.0	38.8	58.2#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

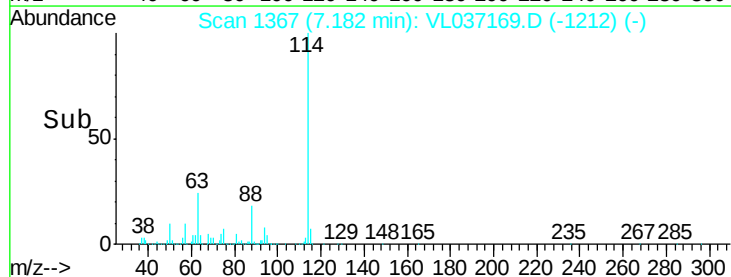
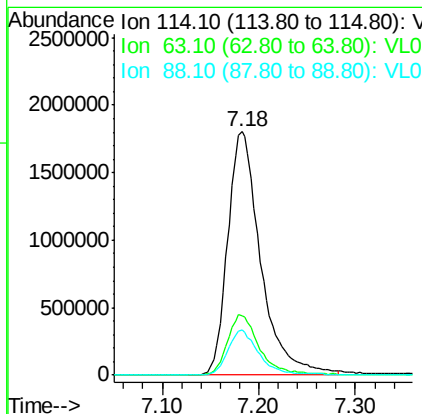
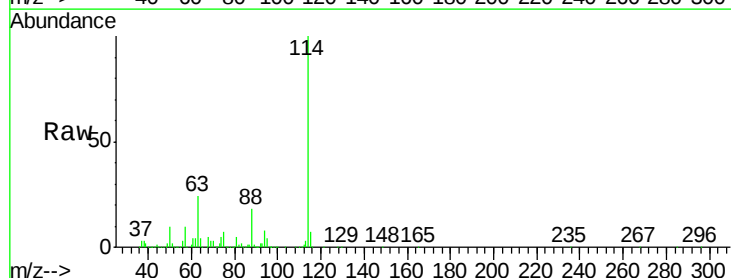
RT: 7.18 min Scan# 1367

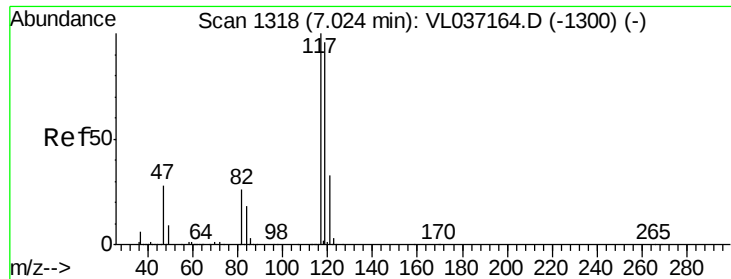
Delta R.T. -0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Tgt Ion:	114	Resp:	4274909
Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.6	29.4
88	17.9	14.2	21.2





#35

Carbon Tetrachloride

Concen: 0.036 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

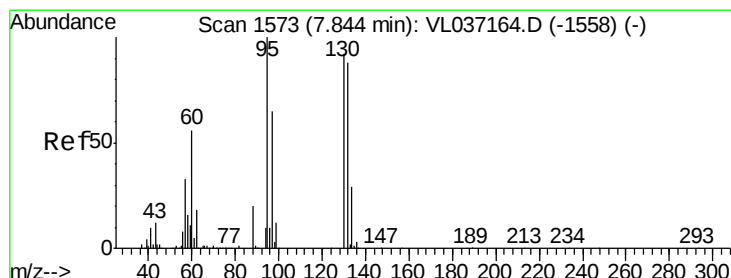
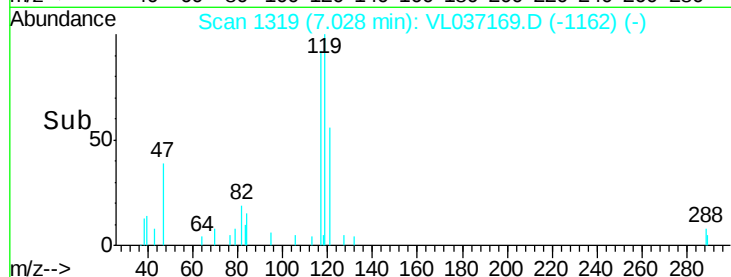
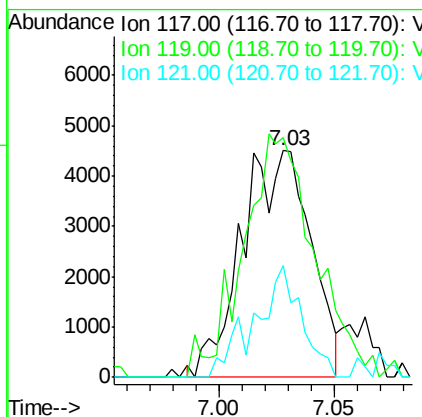
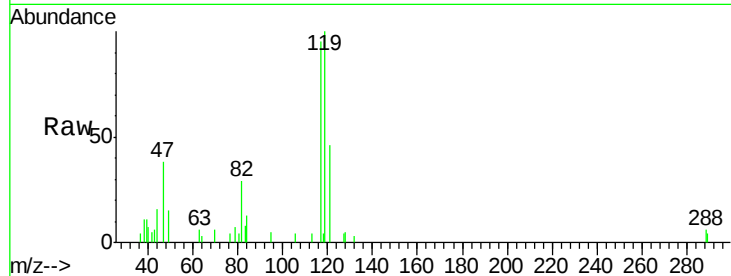
ClientSampleId :

VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	105.8	76.6	114.8
121	49.1	26.4	39.6

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#38

Trichloroethene

Concen: 0.045 ppbv m

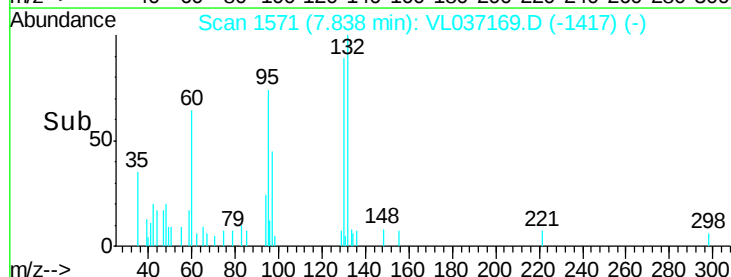
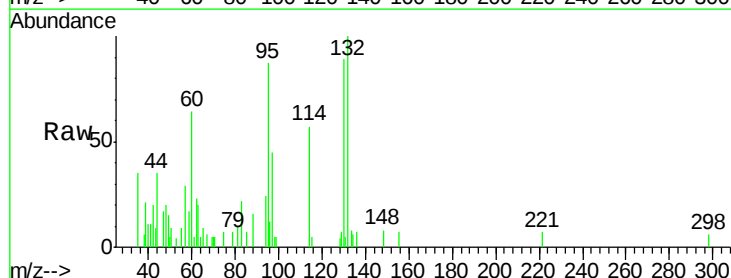
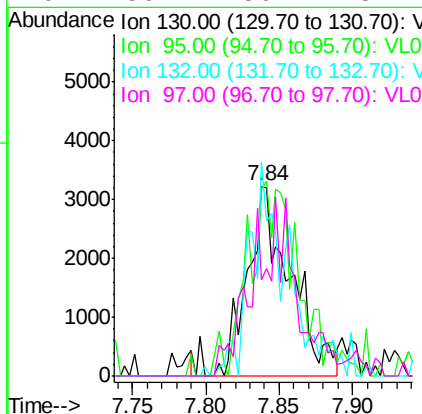
RT: 7.84 min Scan# 1571

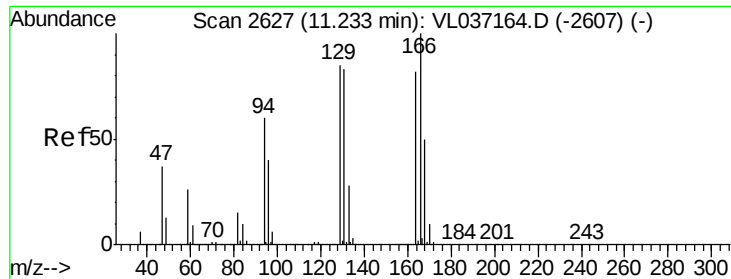
Delta R.T. -0.01 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.6	86.6	129.8
132	112.7	76.6	114.8
97	50.7	56.1	84.1





#52

Tetrachloroethene

Concen: 0.049 ppbv m

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 6819

Ion Ratio Lower Upper

164 100

166 134.0 97.6 146.4

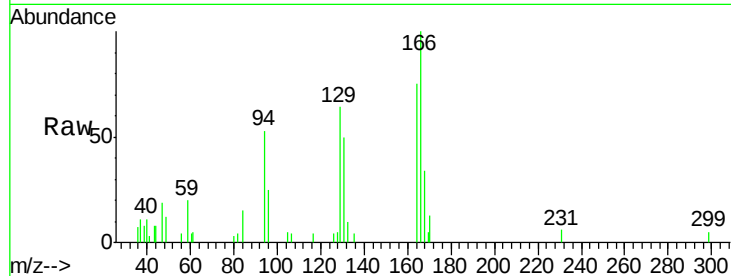
129 86.3 82.9 124.3

131 66.7 80.6 120.8#

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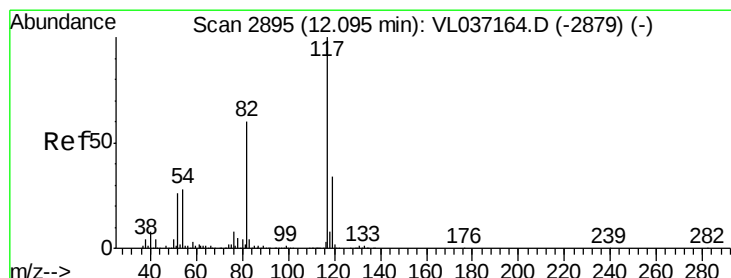
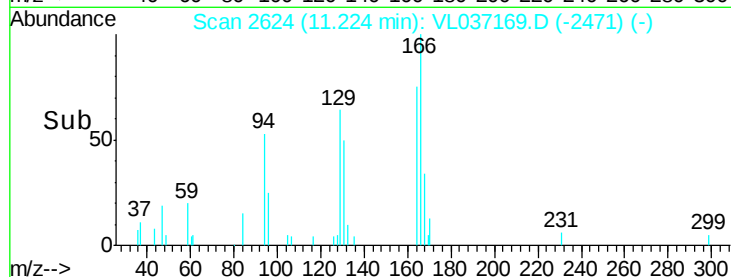
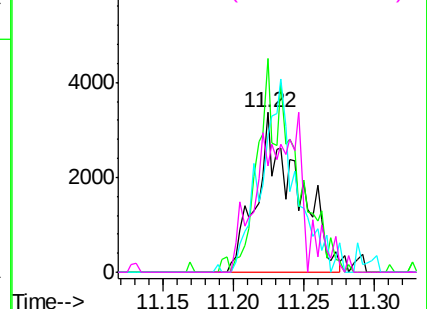


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.10 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

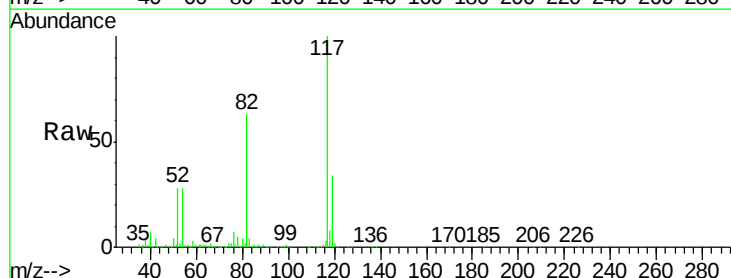
Tgt Ion:117 Resp: 3731766

Ion Ratio Lower Upper

117 100

82 65.4 51.7 77.5

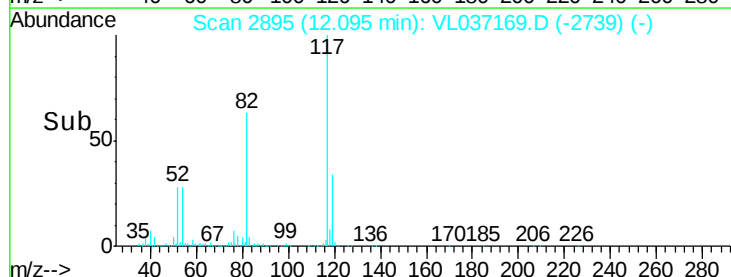
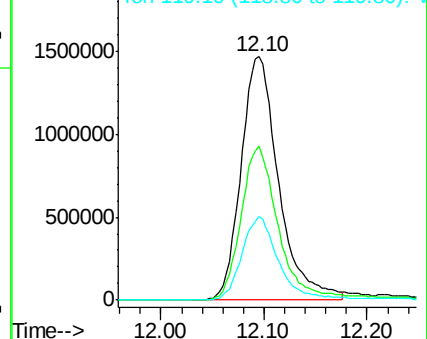
119 35.2 47.6 71.4#

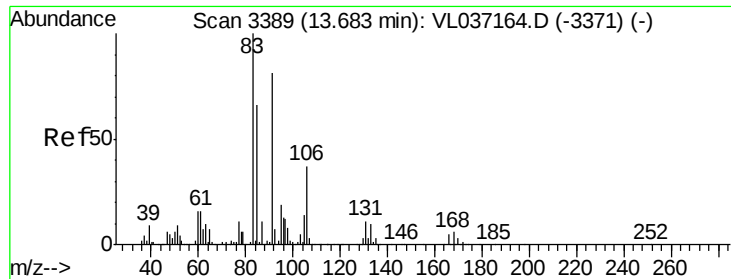


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





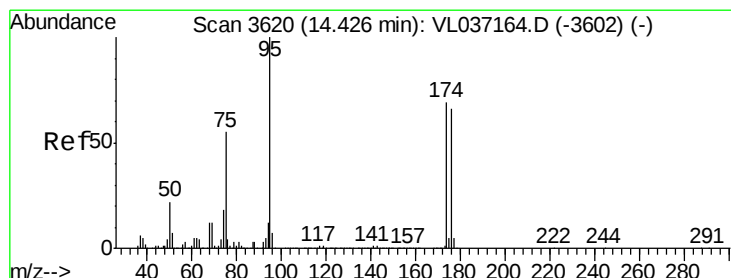
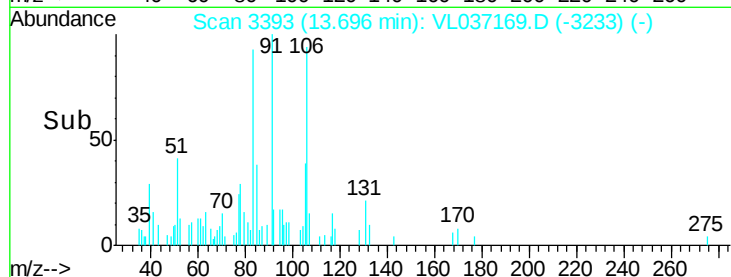
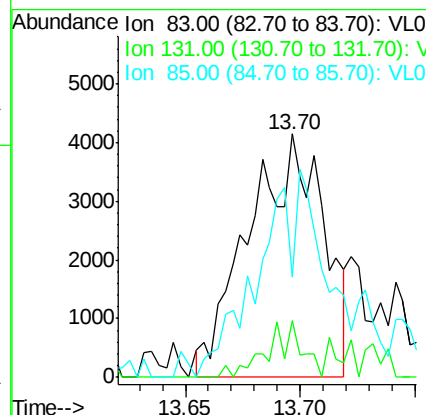
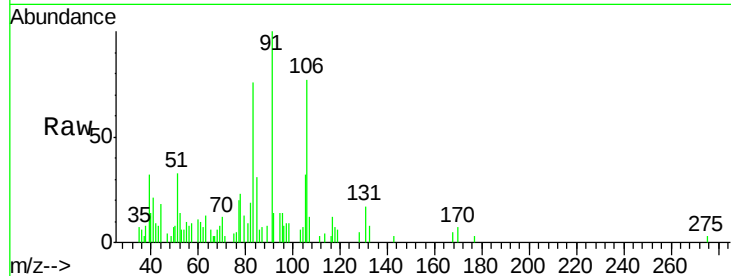
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.035 ppbv m
 RT: 13.70 min Scan# 3393
 Delta R.T. 0.01 min
 Lab File: VL037169.D
 Acq: 16 Jun 2021 12:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.4	16.2#
85	0.0	33.1	99.2#

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.101 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL037169.D
 Acq: 16 Jun 2021 12:33

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.5	57.0	85.4
175	5.3	4.4	6.6

