

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL081121\
 Data File : VL037380.D
 Acq On : 11 Aug 2021 5:39
 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

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 8/12/2021 10:16:46 AM

Quant Time: Aug 11 06:13:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 11 06:13:39 2021
 QLast Update : Wed Aug 11 03:21:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1251600	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3844217	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3341041	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2494881	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	3321m	0.037	ppbv	
32) 1,1,1-Trichloroethane	6.51	97	7540m	0.030	ppbv	
35) Carbon Tetrachloride	7.01	117	7256m	0.029	ppbv	
38) Trichloroethene	7.83	130	5252m	0.036	ppbv	
52) Tetrachloroethene	11.22	164	4530m	0.032	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	10230m	0.041	ppbv	

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

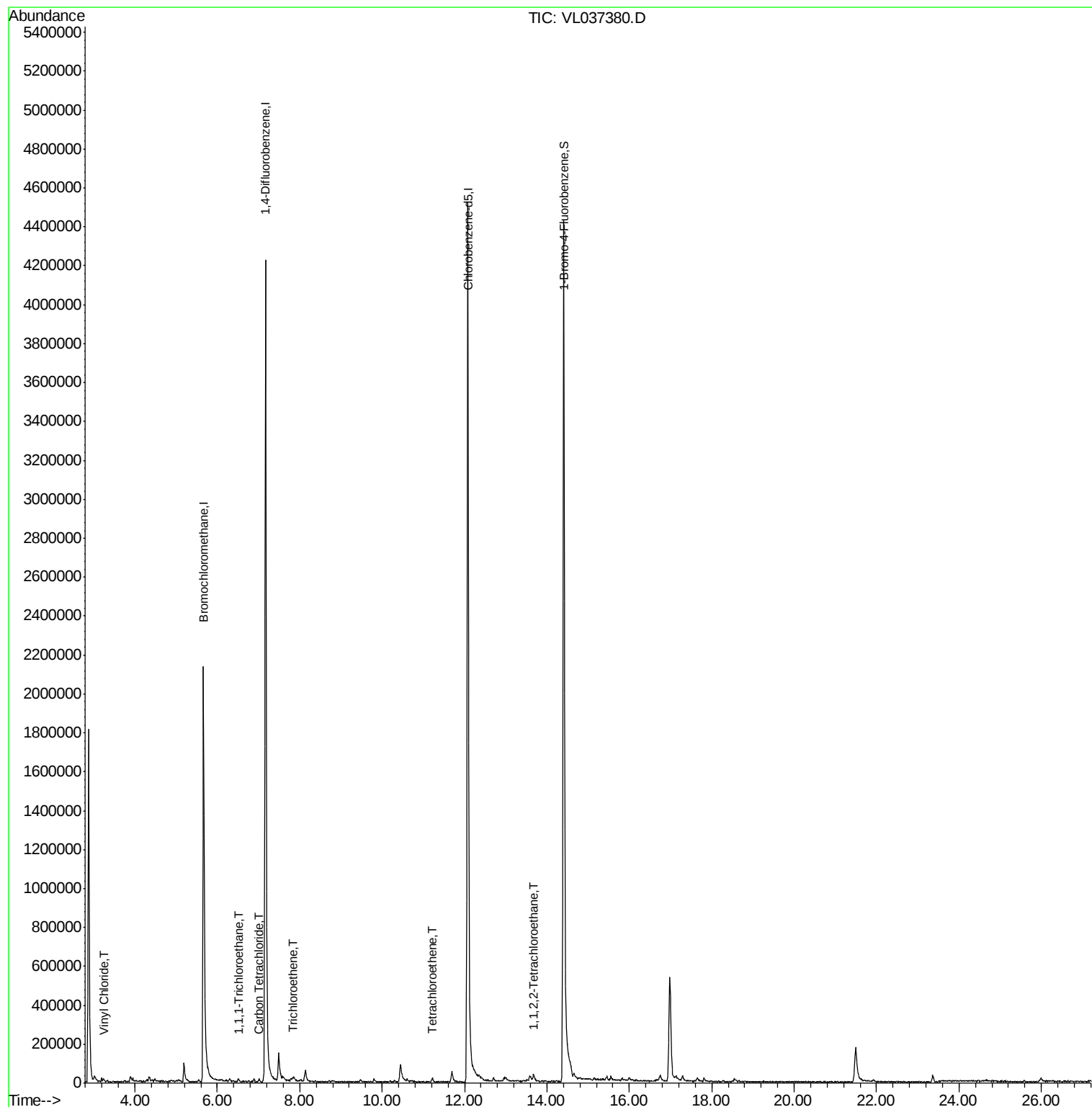
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL081121\
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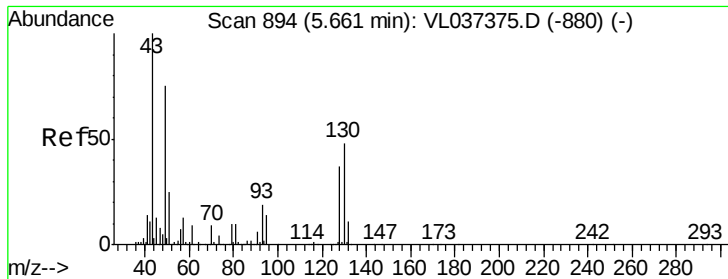
Instrument :
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
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QLast Update : Wed Aug 11 03:21:19 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037380.D

Acq: 11 Aug 2021 5:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1251600

Ion Ratio Lower Upper

49 100

128 55.3 28.1 84.2

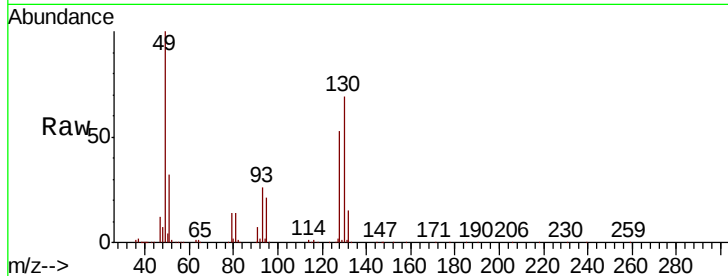
130 71.4 34.6 103.8

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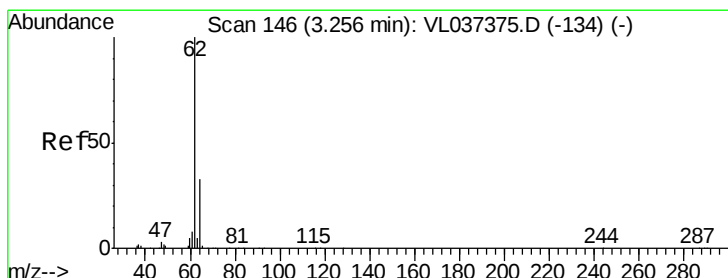
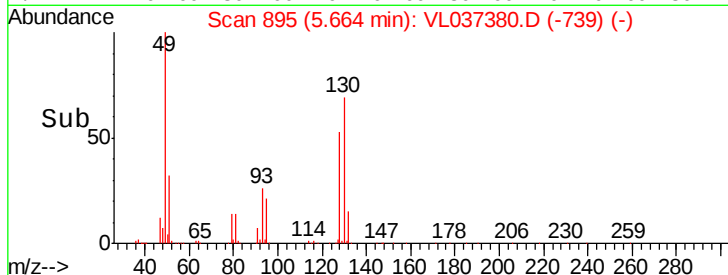
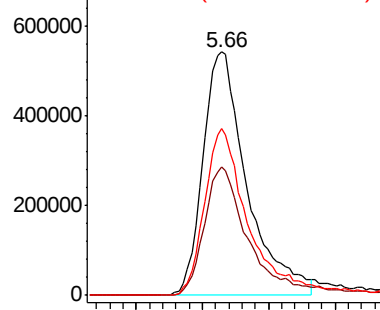
8/12/2021 10:16:46 AM



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: 0.037 ppbv m

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037380.D

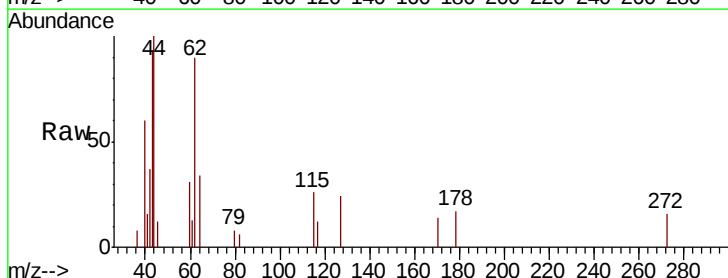
Acq: 11 Aug 2021 5:39

Tgt Ion: 62 Resp: 3321

Ion Ratio Lower Upper

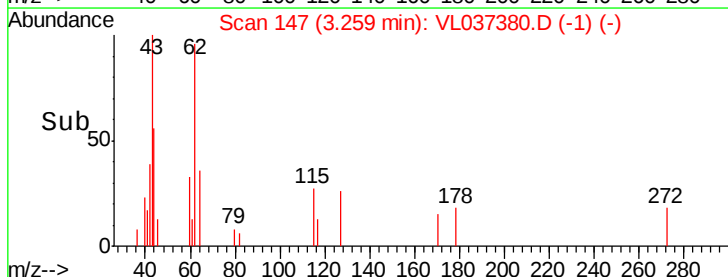
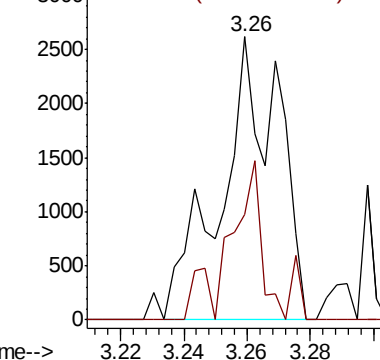
62 100

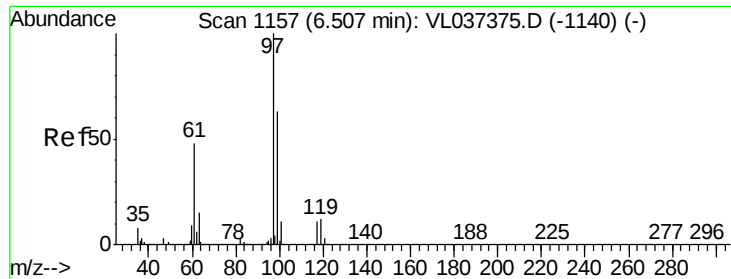
64 37.5 26.2 39.4



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: 0.030 ppbv m

RT: 6.51 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VL037380.D

Acq: 11 Aug 2021 5:39

Instrument :

MSVOA_L

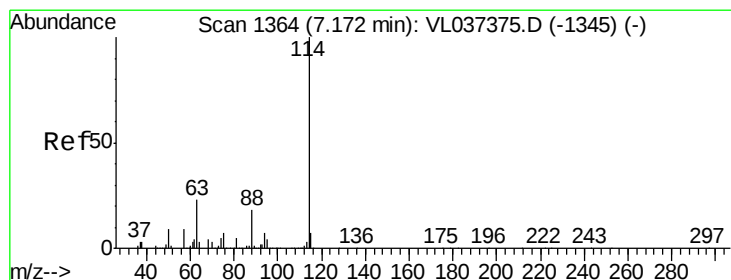
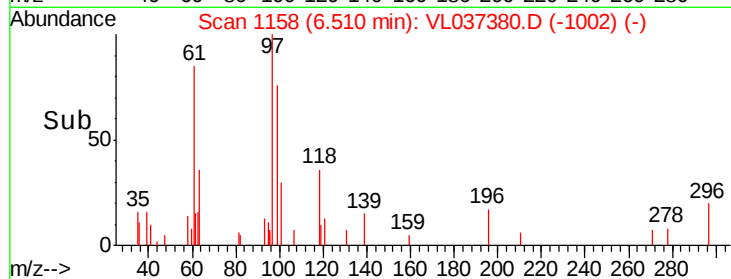
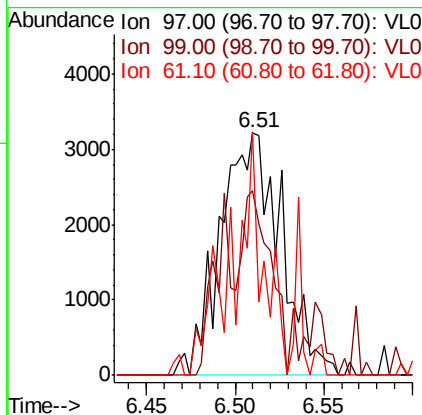
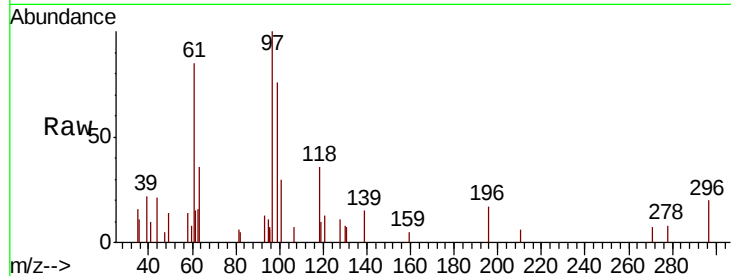
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	7540
Ion	Ratio	Lower	Upper
97	100		
99	72.3	52.7	79.1
61	64.4	39.9	59.9#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

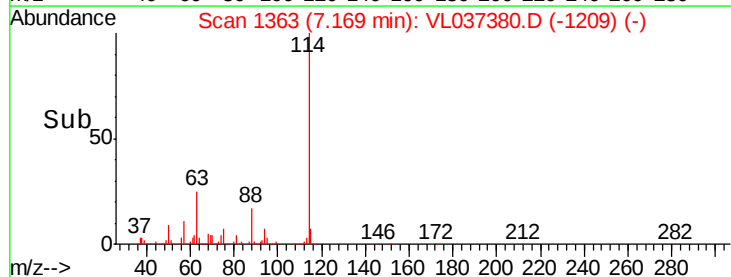
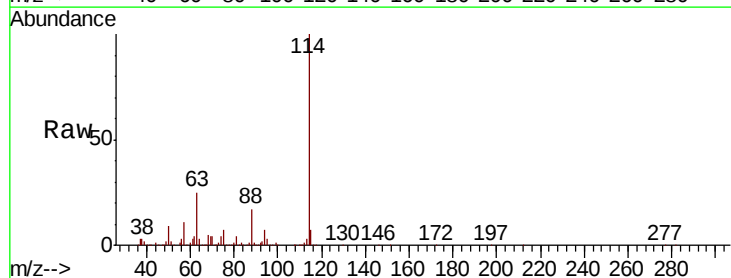
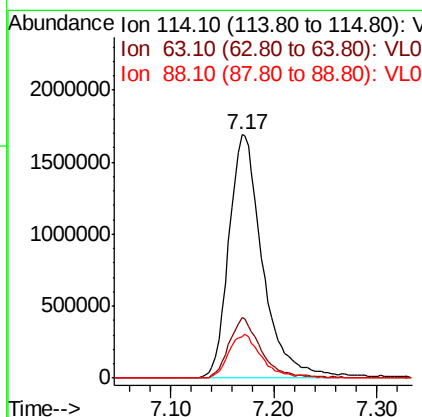
RT: 7.17 min Scan# 1363

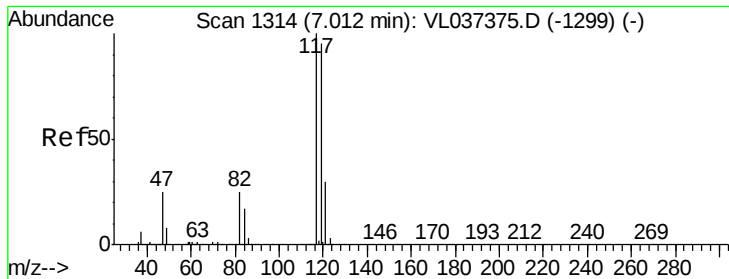
Delta R.T. -0.00 min

Lab File: VL037380.D

Acq: 11 Aug 2021 5:39

Tgt Ion:	114	Resp:	3844217
Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.5	29.3
88	18.0	14.3	21.5





#35

Carbon Tetrachloride

Concen: 0.029 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL037380.D

Acq: 11 Aug 2021 5:39

Instrument :

MSVOA_L

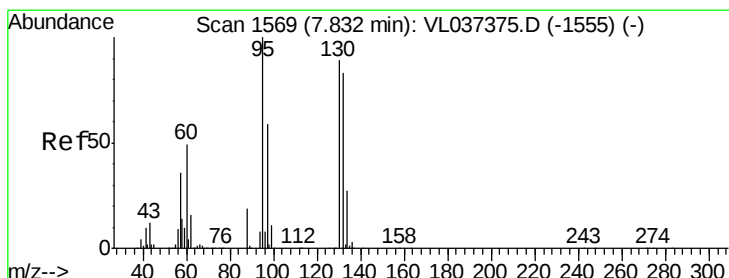
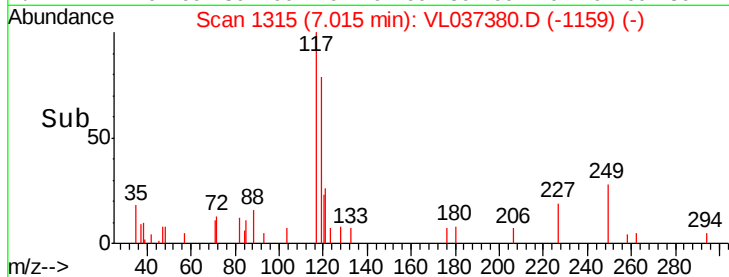
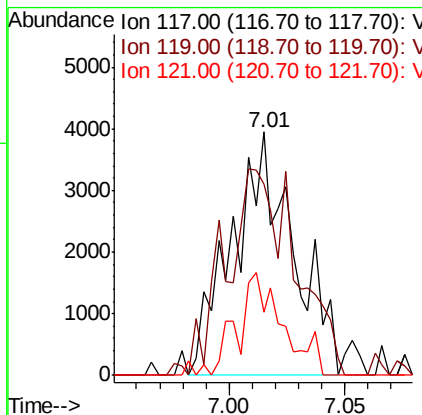
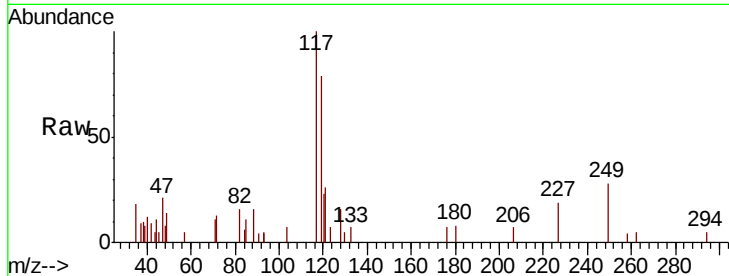
ClientSampleId :

VSTDIC0.03

Tot Ion:	117	Resp:	7256
Ion Ratio	Lower	Upper	
117	100		
119	78.7	76.1	114.1
121	26.0	24.4	36.6

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#38

Trichloroethene

Concen: 0.036 ppbv m

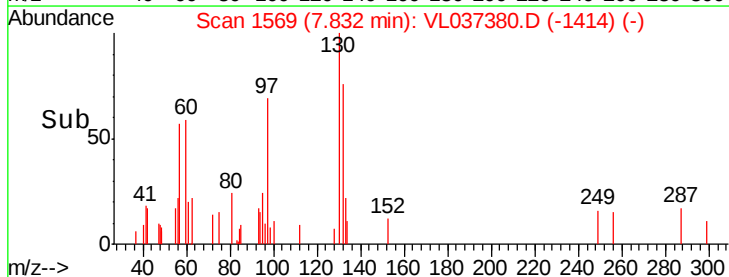
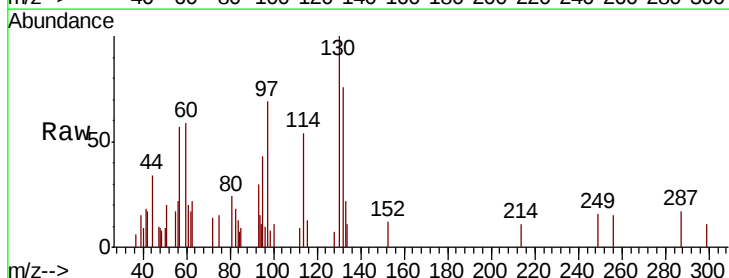
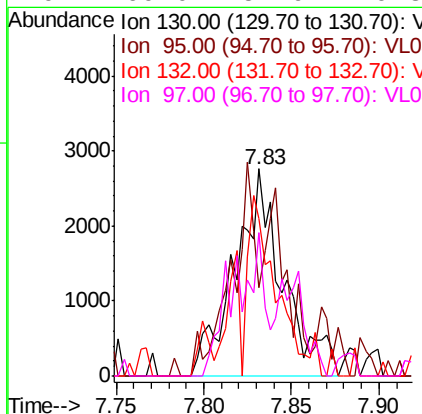
RT: 7.83 min Scan# 1569

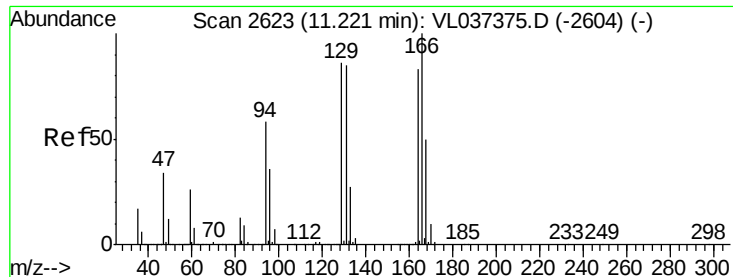
Delta R.T. -0.00 min

Lab File: VL037380.D

Acq: 11 Aug 2021 5:39

Tgt Ion:	130	Resp:	5252
Ion Ratio	Lower	Upper	
130	100		
95	42.9	89.5	134.3#
132	76.2	74.2	111.4
97	69.0	52.9	79.3





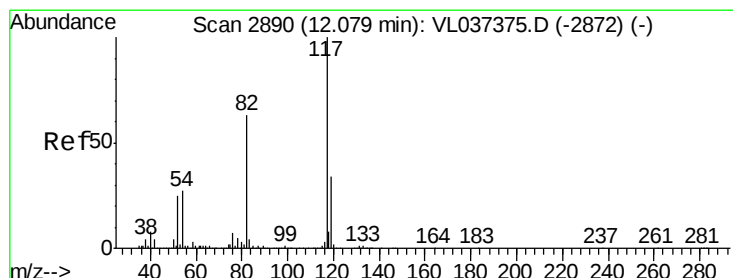
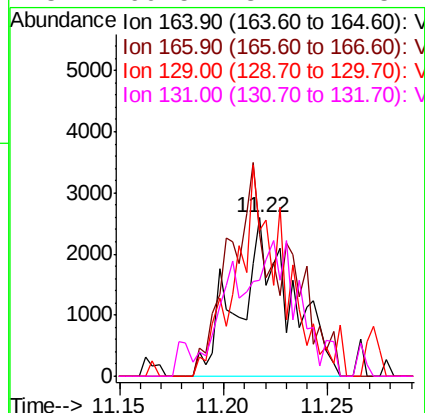
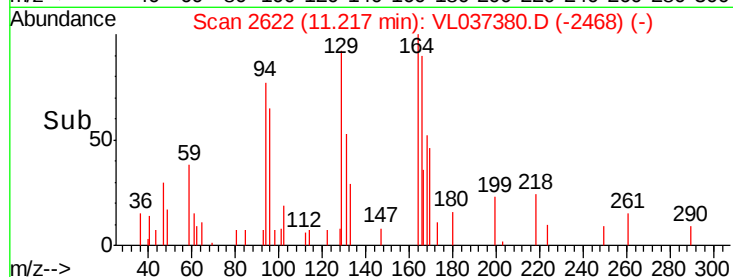
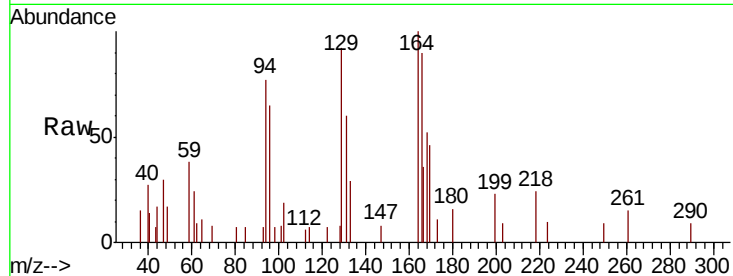
#52
Tetrachloroethene
Concen: 0.032 ppbv m
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL037380.D
Acq: 11 Aug 2021 5:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
164	100		
166	89.6	96.5	144.7#
129	92.4	83.2	124.8
131	60.5	82.2	123.2#

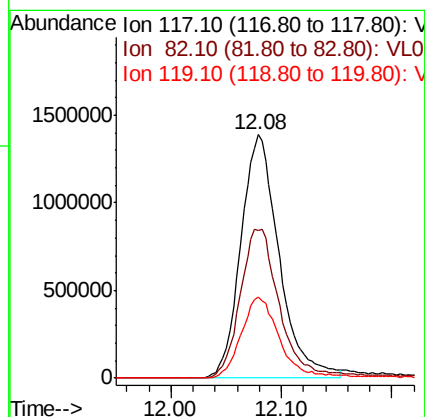
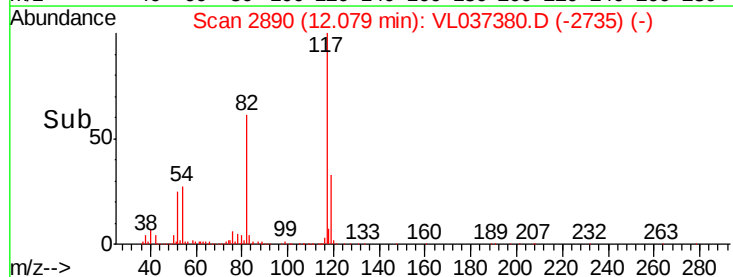
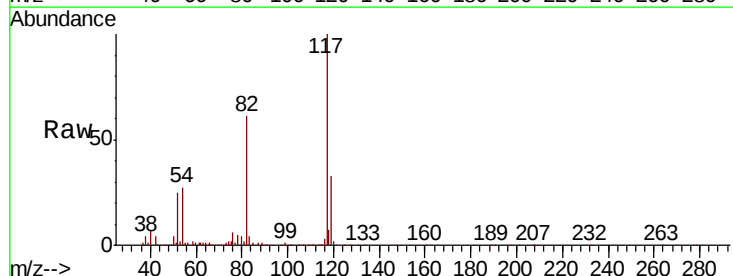
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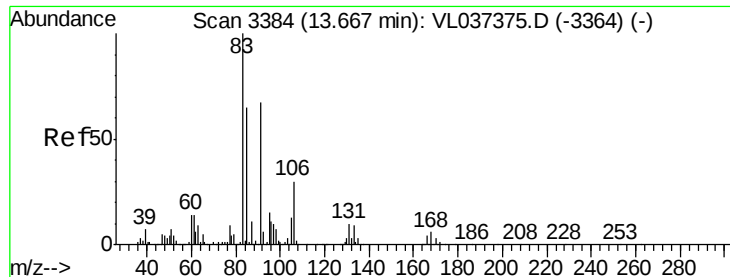
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL037380.D
Acq: 11 Aug 2021 5:39

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.8	52.6	78.8
119	34.4	46.6	69.8#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.041 ppbv m

RT: 13.67 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VL037380.D

Acq: 11 Aug 2021 5:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 83 Resp: 10230

Ion Ratio Lower Upper

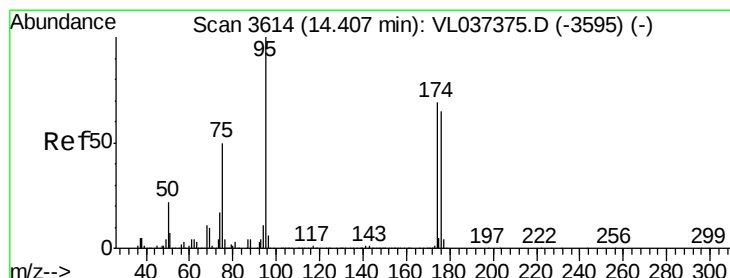
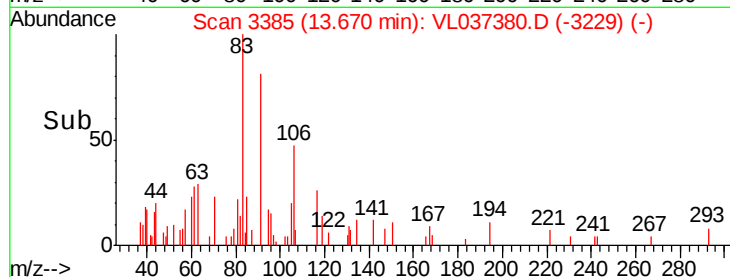
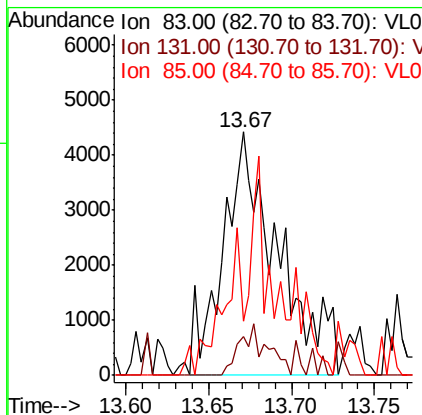
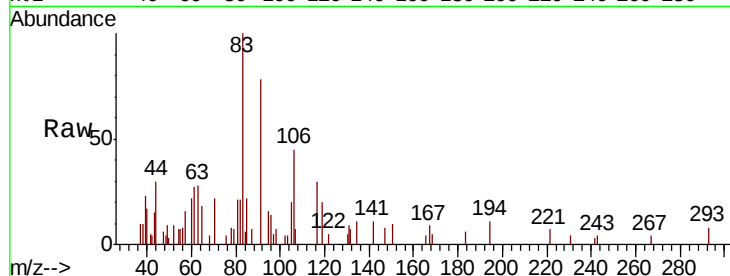
83 100

131 0.0 5.0 15.0#

85 0.0 32.6 97.8#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.904 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.00 min

Lab File: VL037380.D

Acq: 11 Aug 2021 5:39

Tgt Ion: 95 Resp: 2494881

Ion Ratio Lower Upper

95 100

174 72.5 58.3 87.5

175 5.5 4.3 6.5

