

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037379.D
 Acq On : 11 Aug 2021 5:00
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

apatel
 8/12/2021 10:16:44 AM

Quant Time: Aug 11 06:08:45 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 06:08:45 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	1206783	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3851328	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3359725	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2461997	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	8352m	0.097	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	20962m	0.087	ppbv	
35) Carbon Tetrachloride	7.01	117	19624m	0.078	ppbv	
38) Trichloroethene	7.83	130	11864m	0.081	ppbv	
52) Tetrachloroethene	11.21	164	14051m	0.098	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.67	83	27879m	0.111	ppbv	

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

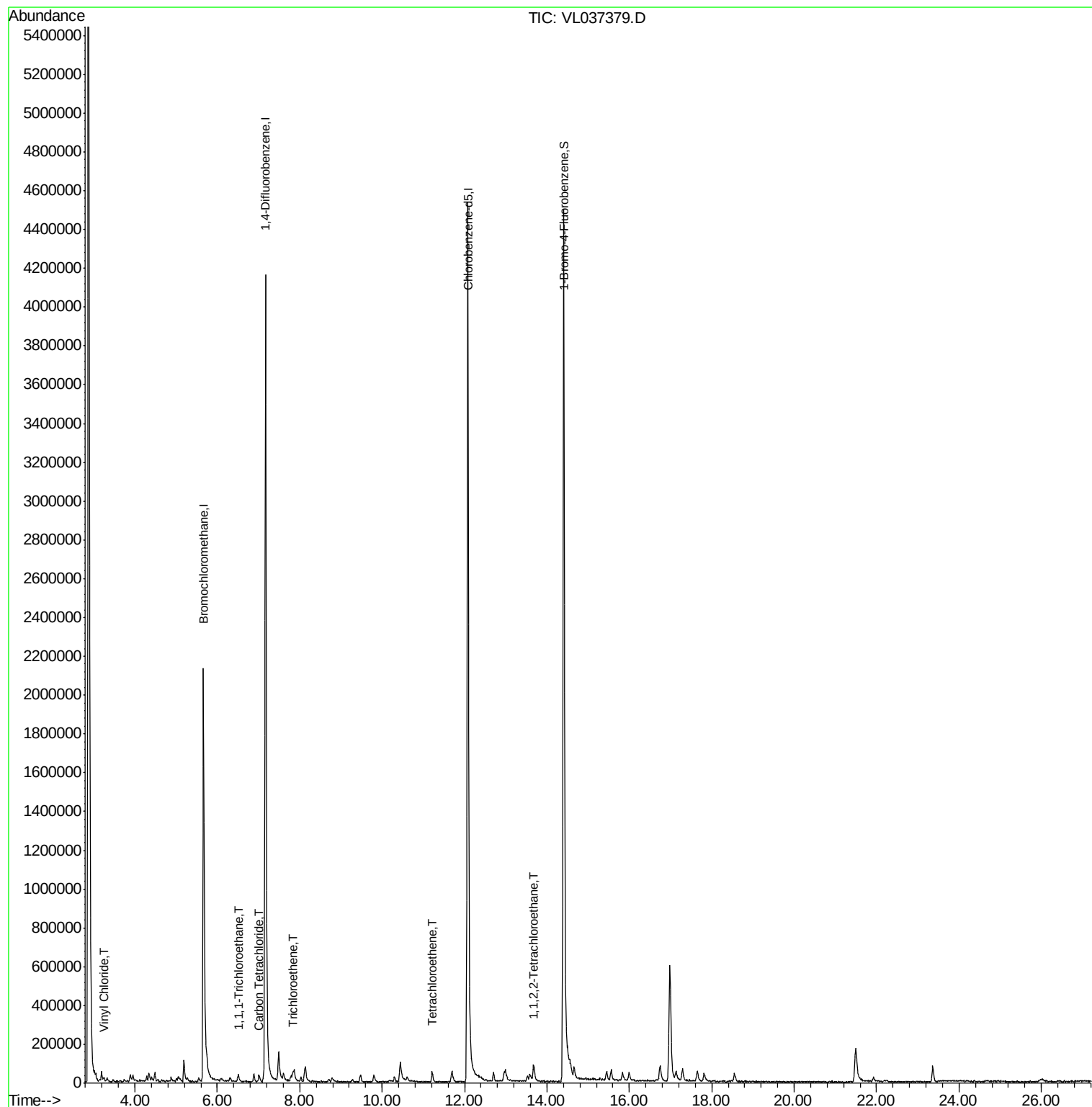
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
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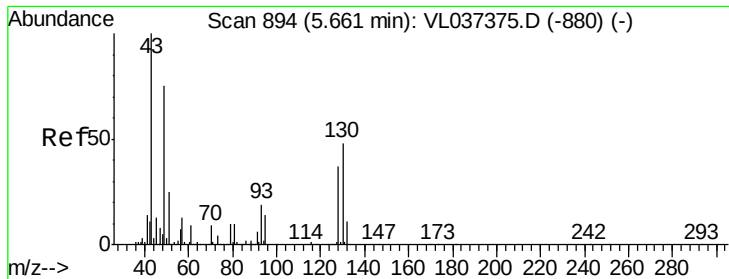
Instrument :
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
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QLast Update : Wed Aug 11 03:21:19 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037379.D

Acq: 11 Aug 2021 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCO.1

Tot Ion: 49 Resp: 1206783

Ion Ratio Lower Upper

49 100

128 58.3 28.1 84.2

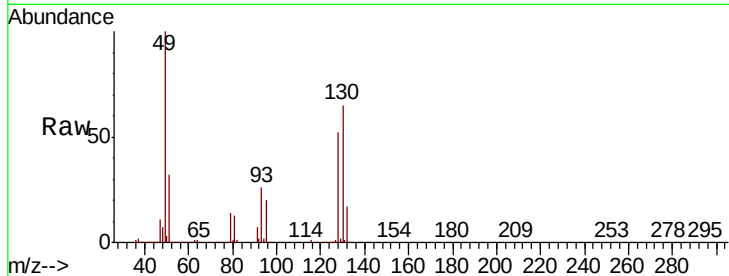
130 72.9 34.6 103.8

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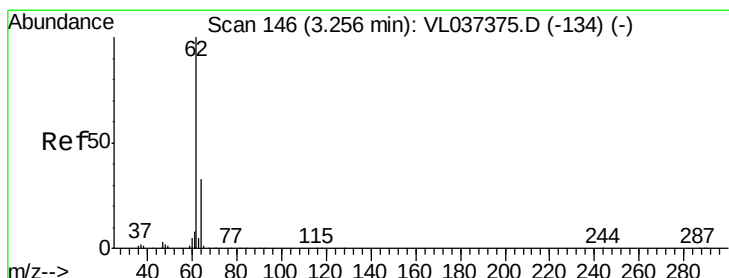
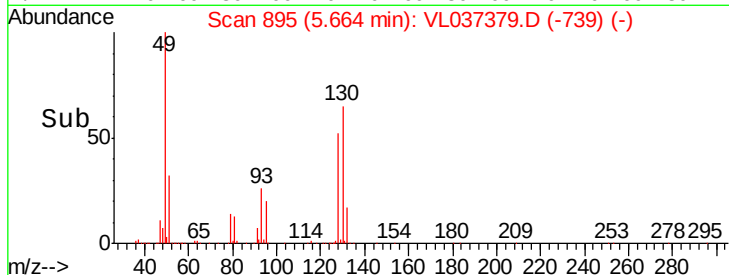
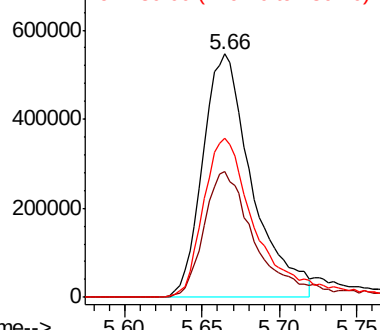
8/12/2021 10:16:44 AM



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: 0.097 ppbv m

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL037379.D

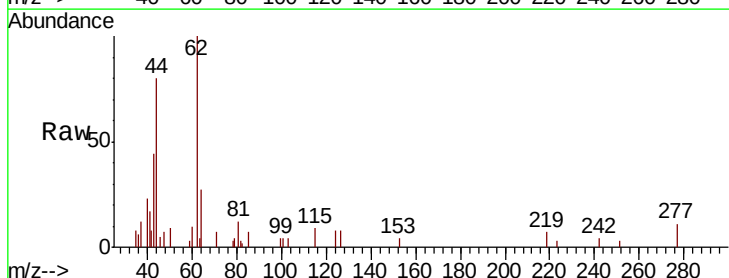
Acq: 11 Aug 2021 5:00

Tgt Ion: 62 Resp: 8352

Ion Ratio Lower Upper

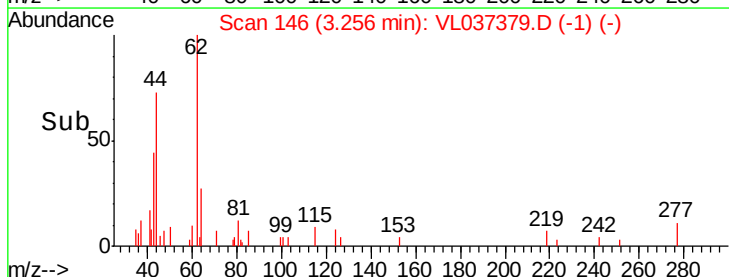
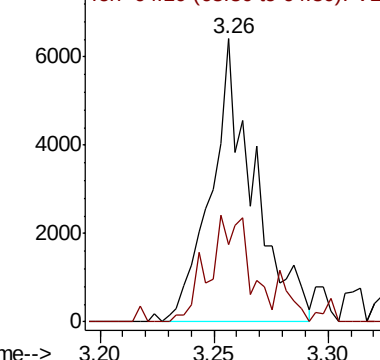
62 100

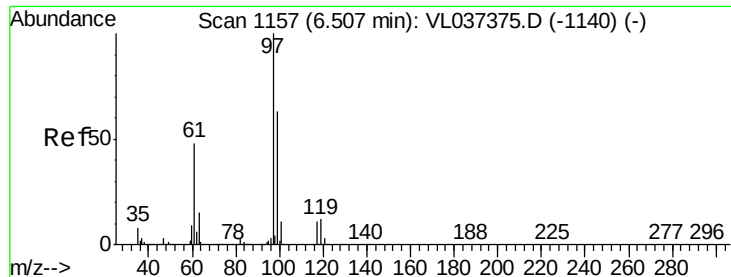
64 27.2 26.2 39.4



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: 0.087 ppbv m

RT: 6.50 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VL037379.D

Acq: 11 Aug 2021 5:00

Instrument :

MSVOA_L

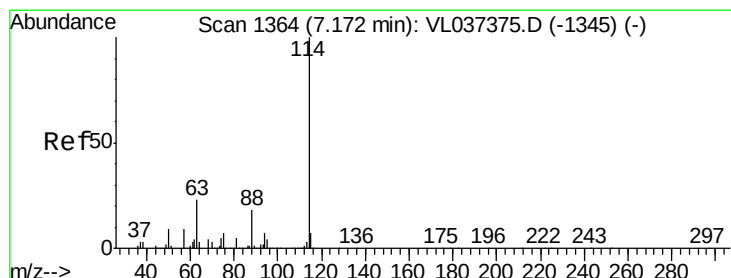
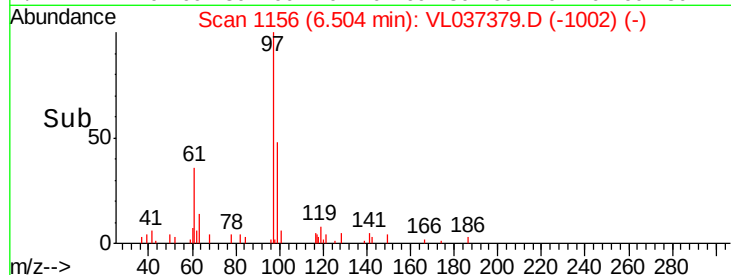
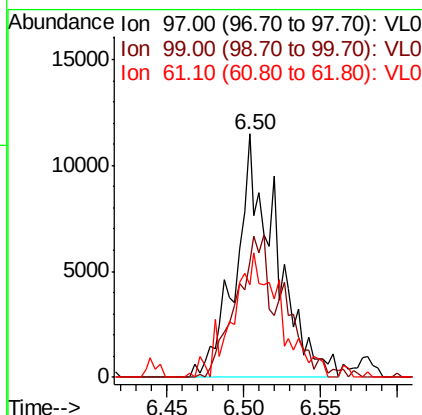
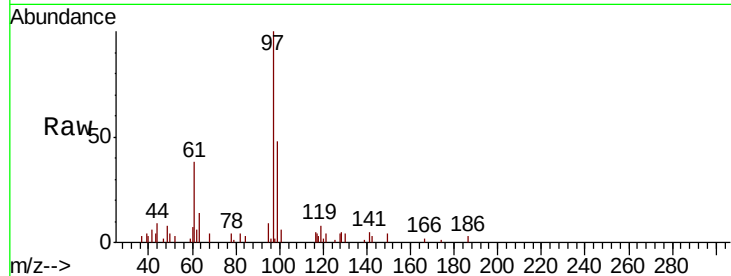
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	20962
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.7	79.1#
61	60.2	39.9	59.9#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

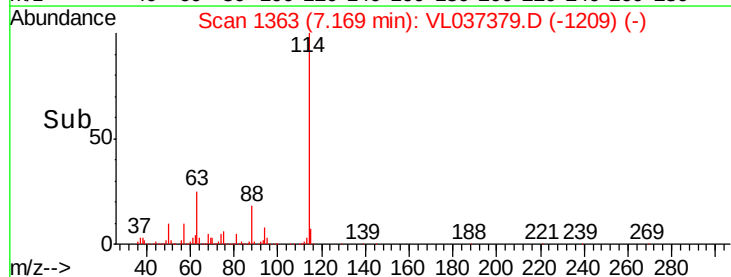
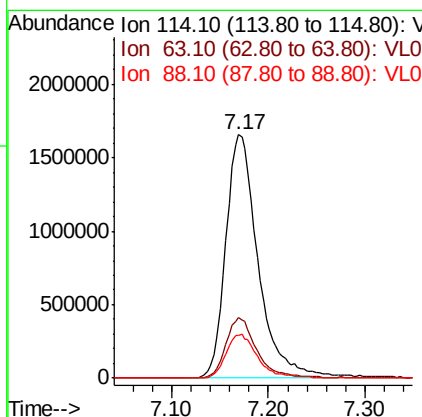
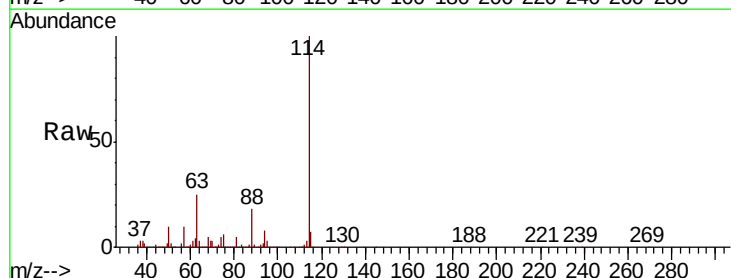
RT: 7.17 min Scan# 1363

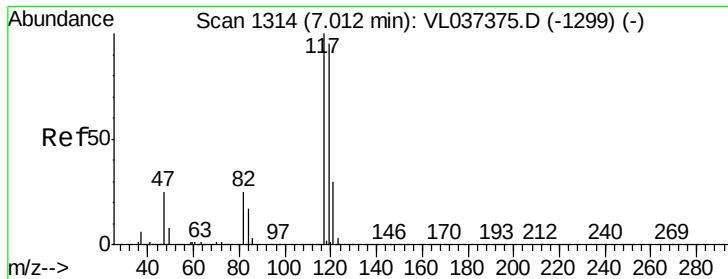
Delta R.T. -0.00 min

Lab File: VL037379.D

Acq: 11 Aug 2021 5:00

Tgt Ion:	114	Resp:	3851328
Ion Ratio	Lower	Upper	
114	100		
63	24.1	19.5	29.3
88	17.8	14.3	21.5





#35

Carbon Tetrachloride

Concen: 0.078 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL037379.D

Acq: 11 Aug 2021 5:00

Instrument :

MSVOA_L

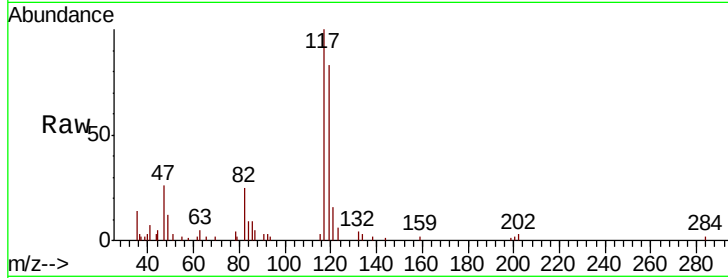
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	19624
Ion Ratio	Lower	Upper	
117	100		
119	82.5	76.1	114.1
121	16.2	24.4	36.6#

Manual Integrations
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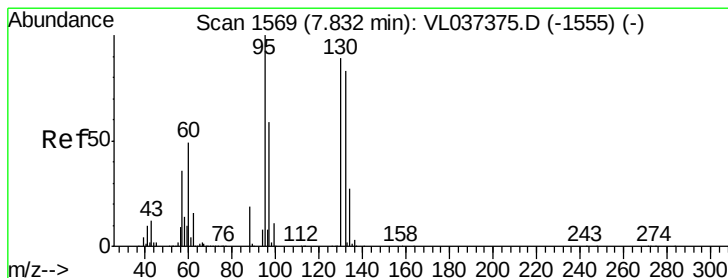
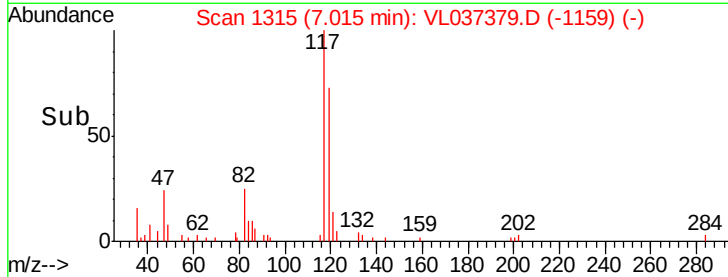
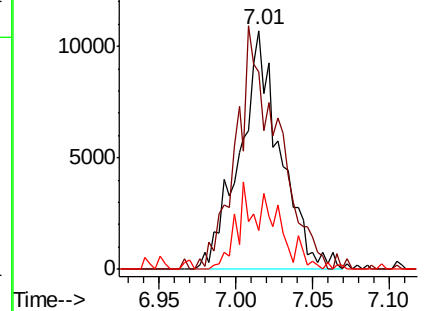


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.081 ppbv m

RT: 7.83 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VL037379.D

Acq: 11 Aug 2021 5:00

Tgt Ion:	130	Resp:	11864
Ion Ratio	Lower	Upper	
130	100		
95	90.9	89.5	134.3
132	107.7	74.2	111.4
97	57.6	52.9	79.3

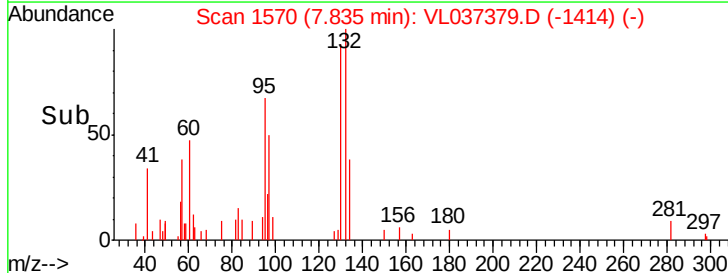
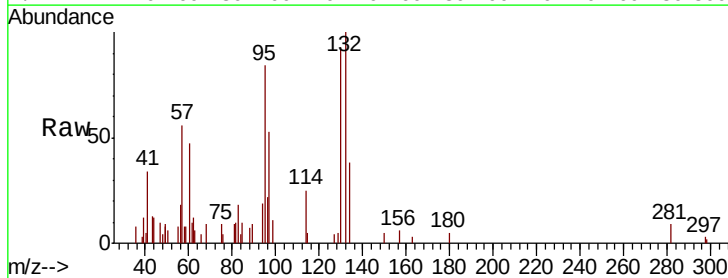
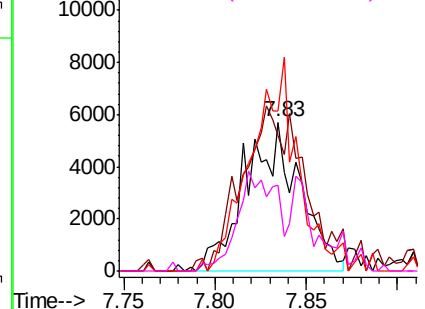
Abundance

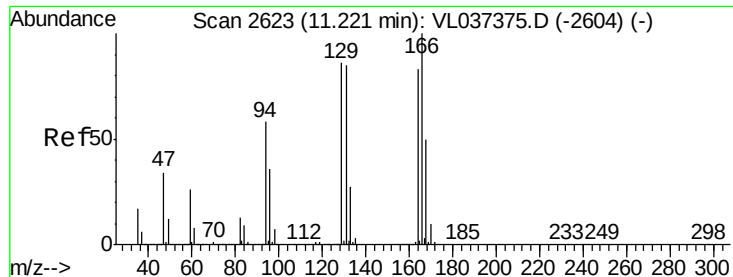
Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): V

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): V





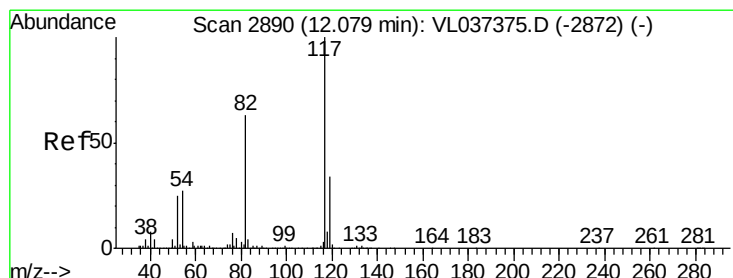
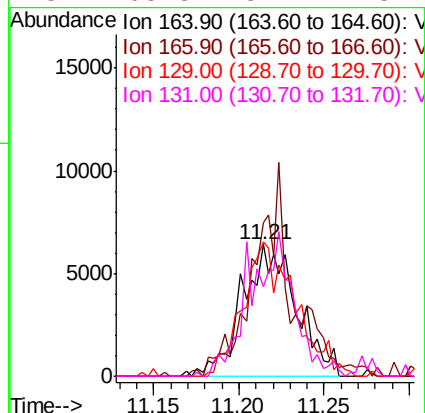
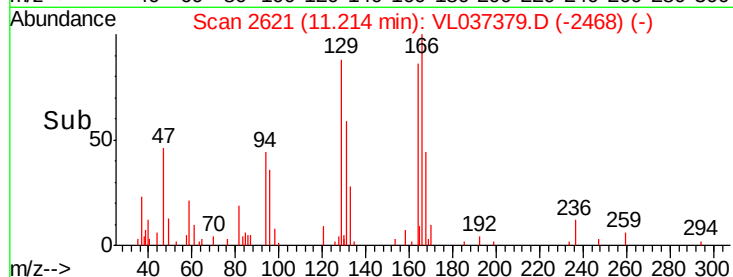
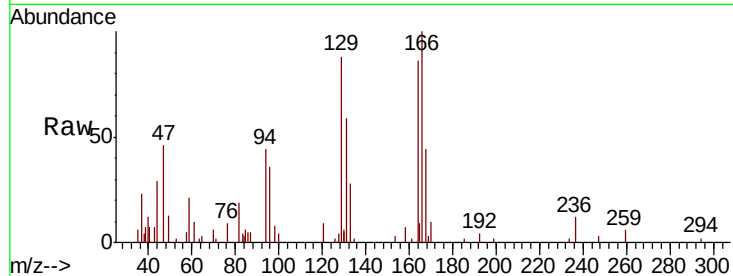
#52
Tetrachloroethene
Concen: 0.098 ppbv m
RT: 11.21 min Scan# 2621
Delta R.T. -0.01 min
Lab File: VL037379.D
Acq: 11 Aug 2021 5:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
164	100		
166	116.3	96.5	144.7
129	101.8	83.2	124.8
131	68.3	82.2	123.2#

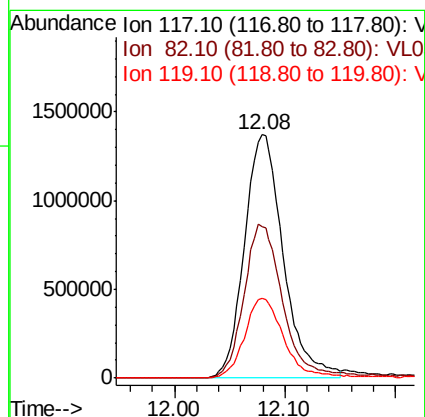
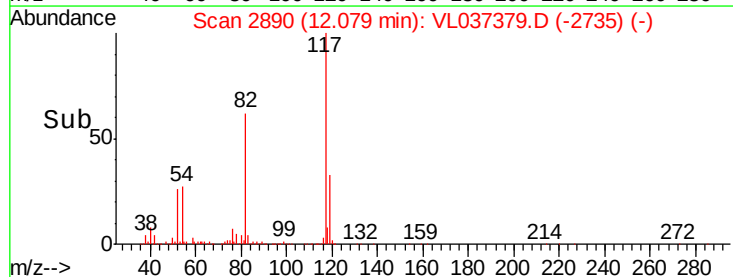
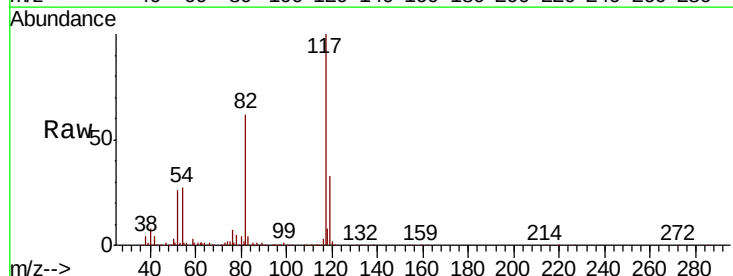
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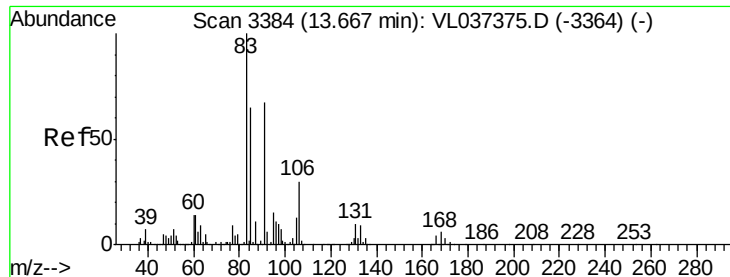
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL037379.D
Acq: 11 Aug 2021 5:00

Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.9	52.6	78.8
119	33.9	46.6	69.8#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.111 ppbv m

RT: 13.67 min Scan# 3386

Delta R.T. 0.01 min

Lab File: VL037379.D

Acq: 11 Aug 2021 5:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 83 Resp: 27879

Ion Ratio Lower Upper

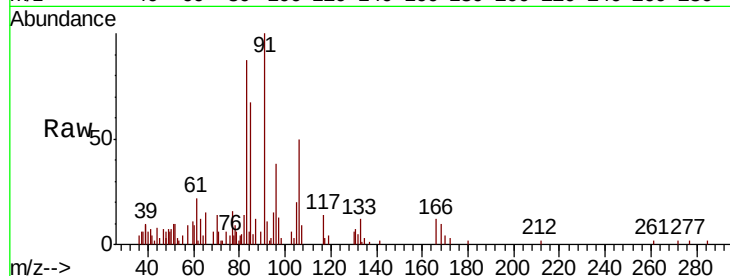
83 100

131 0.0 5.0 15.0#

85 0.0 32.6 97.8#

Manual Integrations
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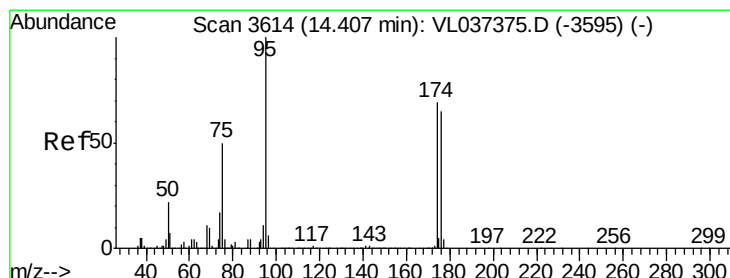
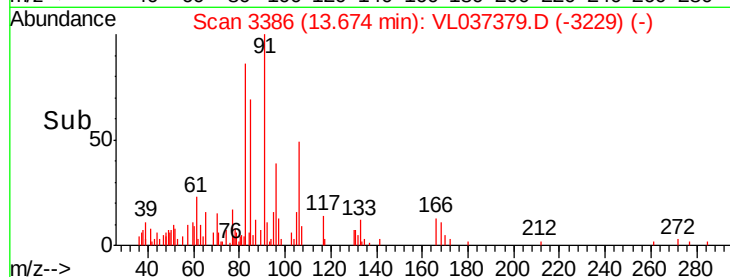
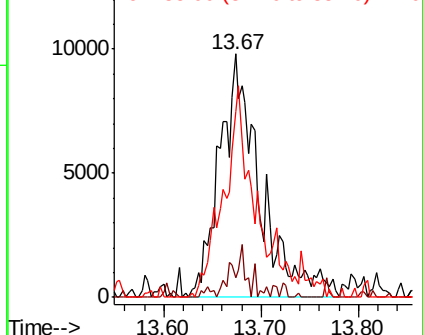
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 9.719 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.00 min

Lab File: VL037379.D

Acq: 11 Aug 2021 5:00

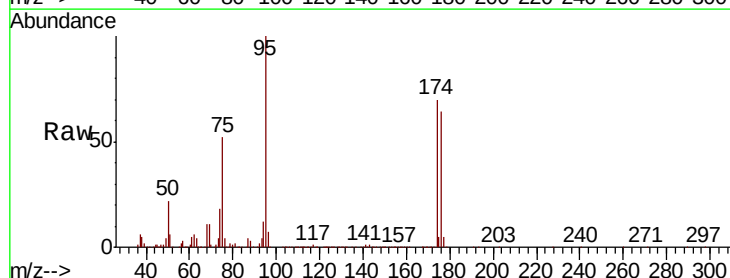
Tgt Ion: 95 Resp: 2461997

Ion Ratio Lower Upper

95 100

174 73.3 58.3 87.5

175 5.5 4.3 6.5



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

