

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032314.D
 Acq On : 27 Jul 2018 3:56
 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

MMDadoda
 7/30/2018 11:43:02 AM

Quant Time: Jul 27 06:43:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	2118542	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	4229547	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	5063453	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3978628	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.34	62	3183m	0.02	ppbv	
32) 1,1,1-Trichloroethane	6.69	97	6648m	0.02	ppbv	
35) Carbon Tetrachloride	7.22	117	6828m	0.02	ppbv	
38) Trichloroethene	8.04	130	3885m	0.03	ppbv	
52) Tetrachloroethene	11.45	164	3113m	0.02	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.93	83	12954m	0.03	ppbv	

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

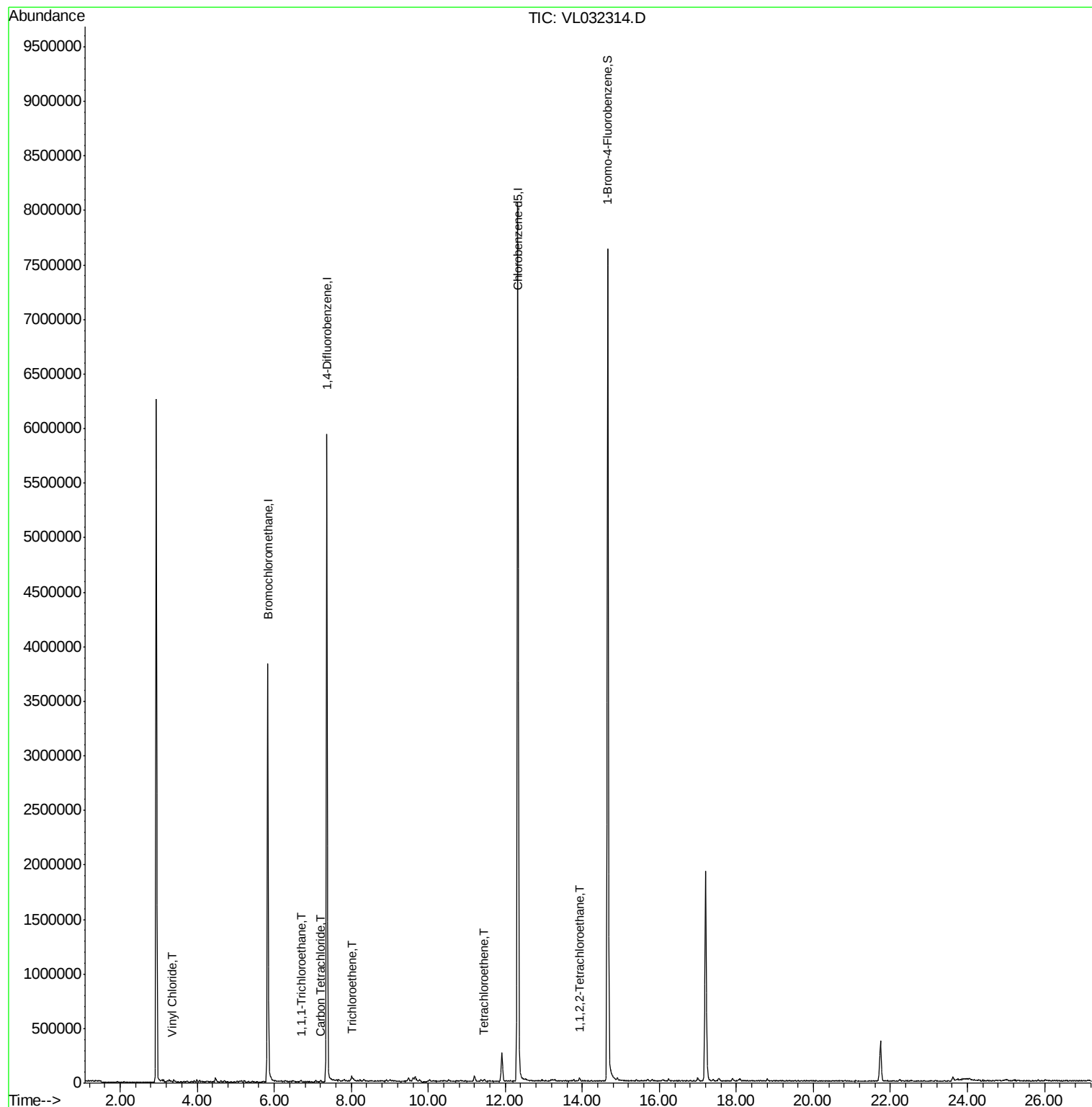
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072718\
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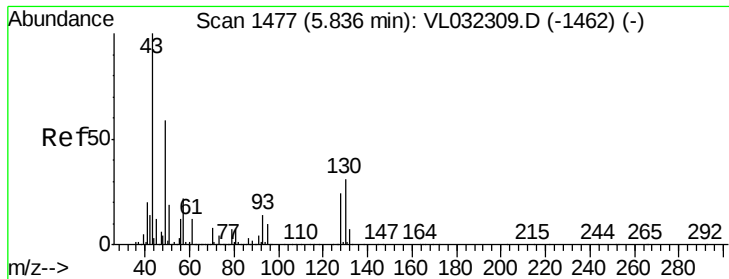
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

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#1

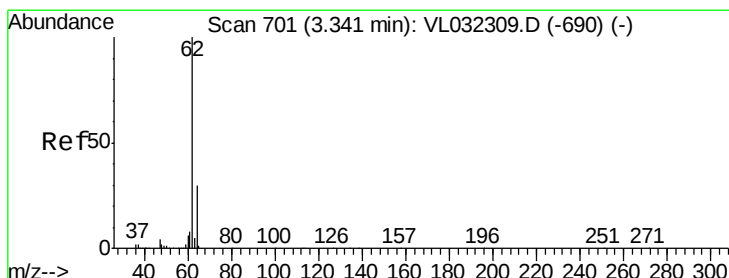
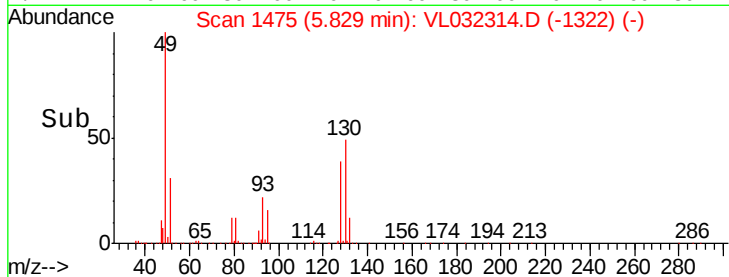
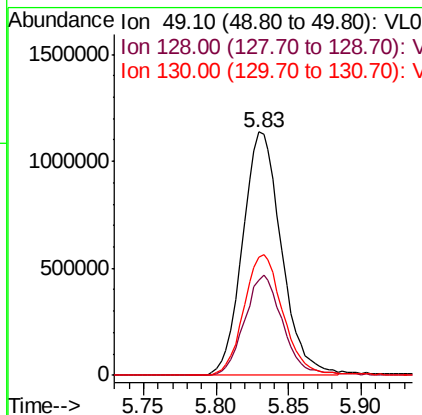
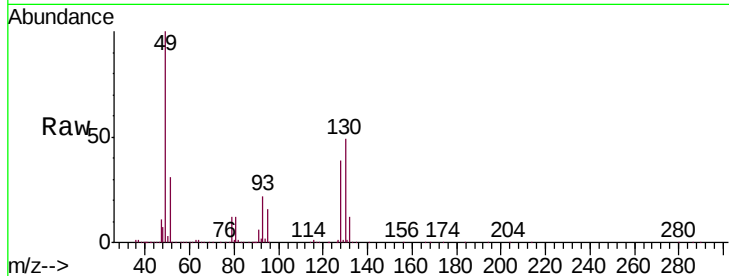
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.83 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VL032314.D
 Acq: 27 Jul 2018 3:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.0	20.2	60.6
130	50.9	25.8	77.3

Manual Integrations
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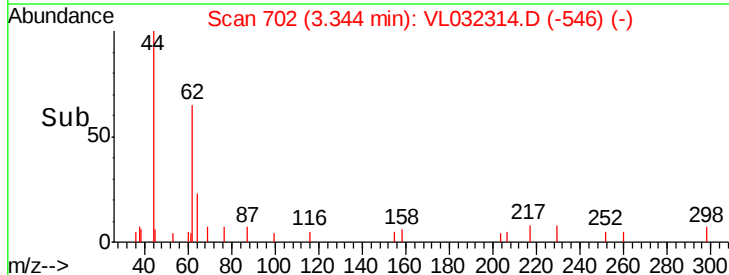
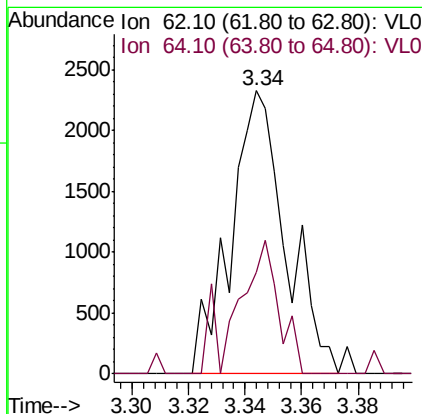
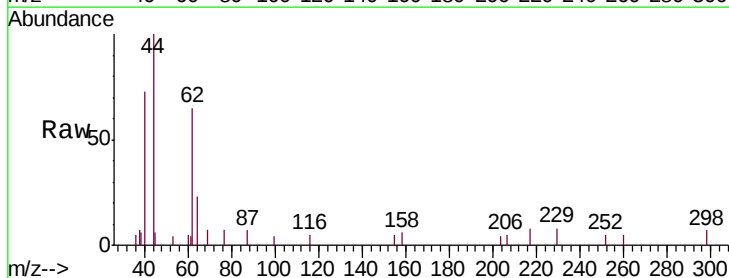
MMDadoda
 7/30/2018 11:43:02 AM

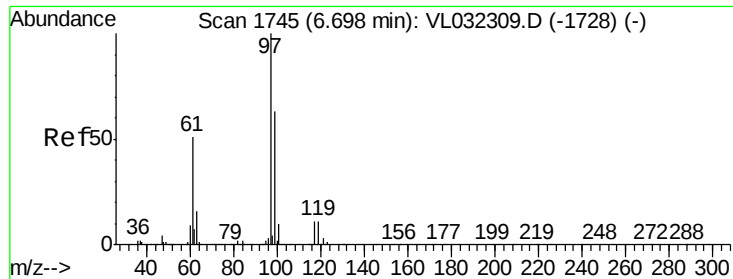


#5

Vinyl Chloride
 Concen: 0.02 ppbv m
 RT: 3.34 min Scan# 702
 Delta R.T. 0.00 min
 Lab File: VL032314.D
 Acq: 27 Jul 2018 3:56

Tgt Ion	Ratio	Lower	Upper
62	100		
64	35.8	24.1	36.1





#32

1,1,1-Trichloroethane

Concen: 0.02 ppbv m

RT: 6.69 min Scan# 1743

Delta R.T. -0.01 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

Instrument :

MSVOA_L

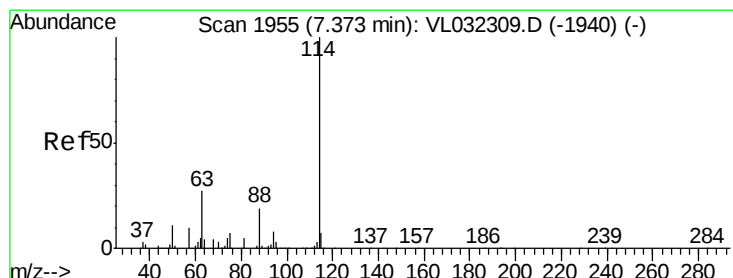
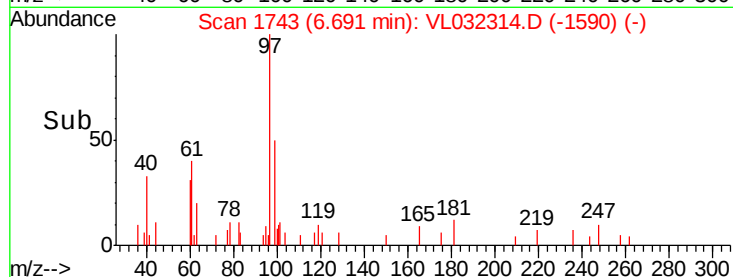
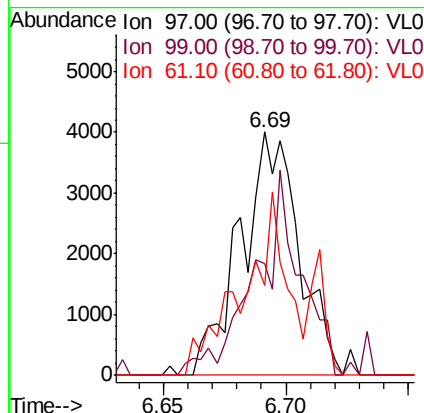
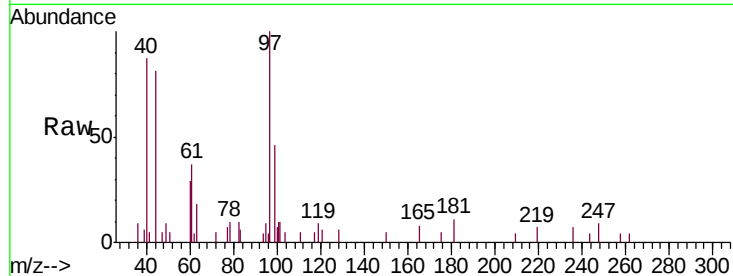
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	6648
Ion Ratio	Lower	Upper	
97	100		
99	0.0	50.9	76.3#
61	0.0	41.8	62.6#

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

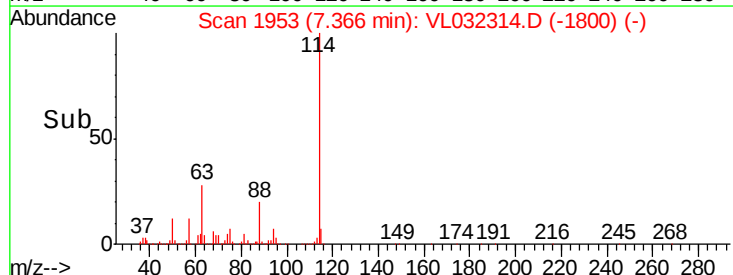
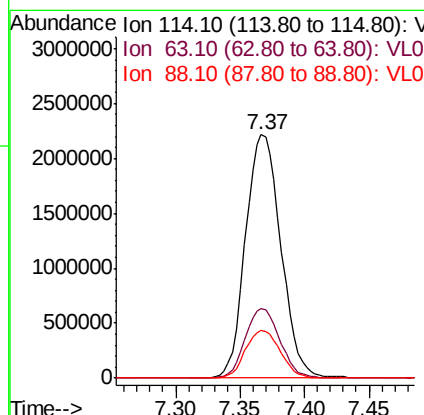
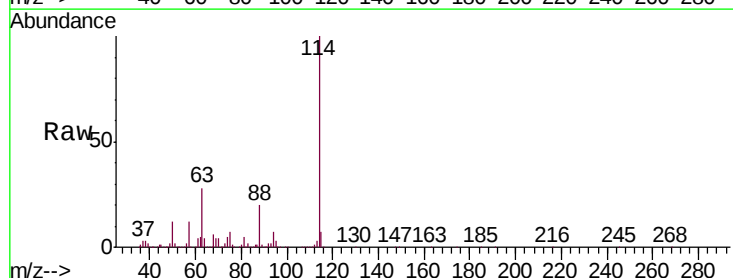
RT: 7.37 min Scan# 1953

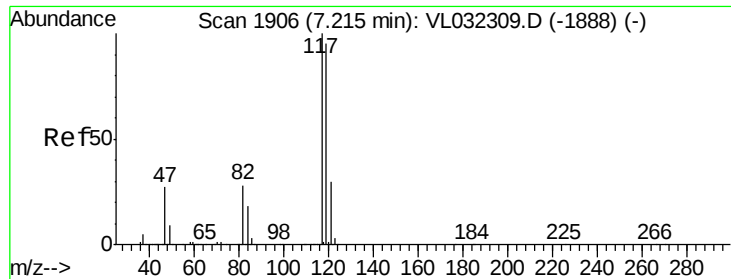
Delta R.T. -0.01 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

Tgt Ion:	114	Resp:	4229547
Ion Ratio	Lower	Upper	
114	100		
63	28.2	22.4	33.6
88	19.5	15.3	22.9





#35

Carbon Tetrachloride

Concen: 0.02 ppbv m

RT: 7.22 min Scan# 1906

Delta R.T. -0.00 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

Instrument :

MSVOA_L

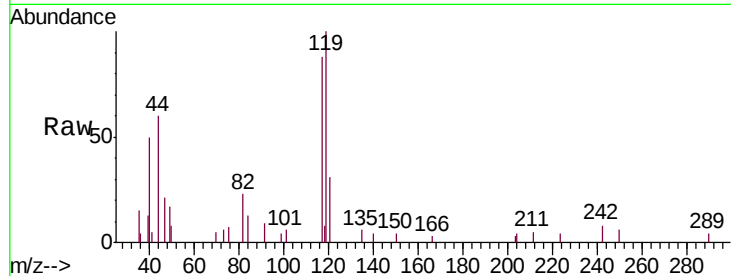
ClientSampleId :

VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	113.3	76.1	114.1
121	34.7	24.4	36.6

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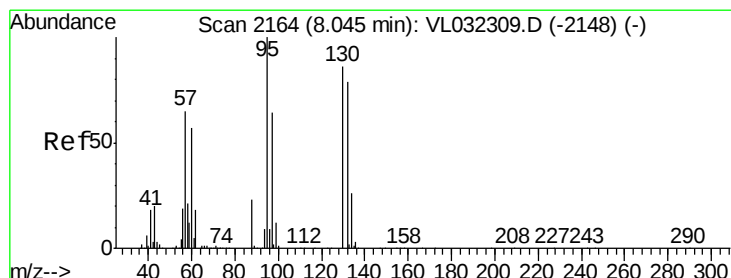
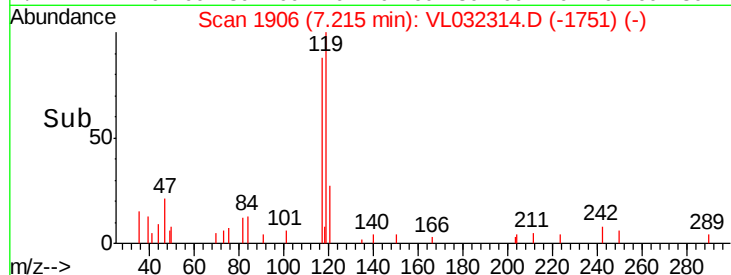
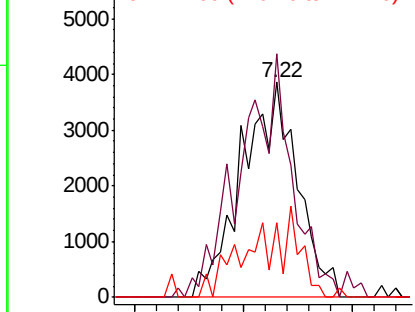


Abundance

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: 0.03 ppbv m

RT: 8.04 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

Tgt Ion	Ratio	Lower	Upper
130	100		
95	52.2	92.9	139.3#
132	0.0	73.0	109.4#
97	71.0	59.6	89.4

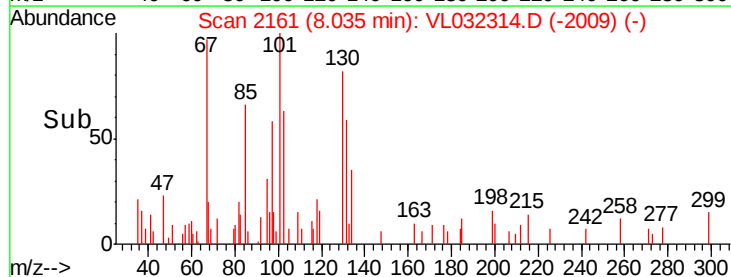
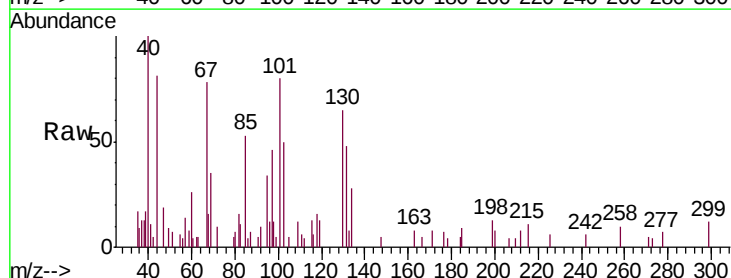
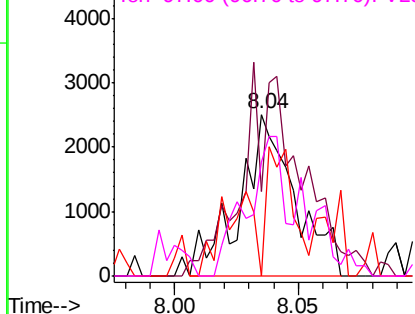
Abundance

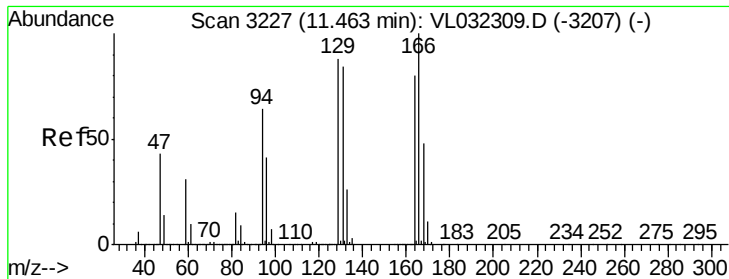
Ion 130.00 (129.70 to 130.70): V

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: 0.02 ppbv m

RT: 11.45 min Scan# 3223

Delta R.T. -0.01 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

Instrument :

MSVOA_L

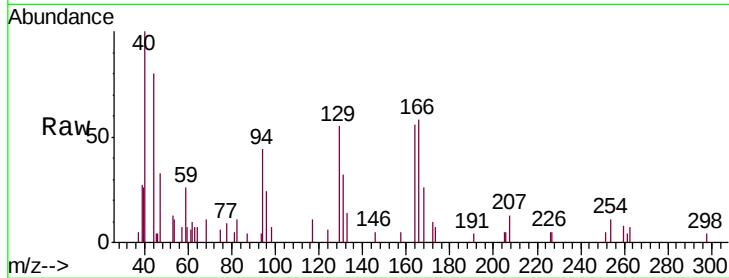
ClientSampleId :

VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
164	100		
166	104.7	100.0	150.0
129	97.9	87.9	131.9
131	57.8	83.8	125.8#

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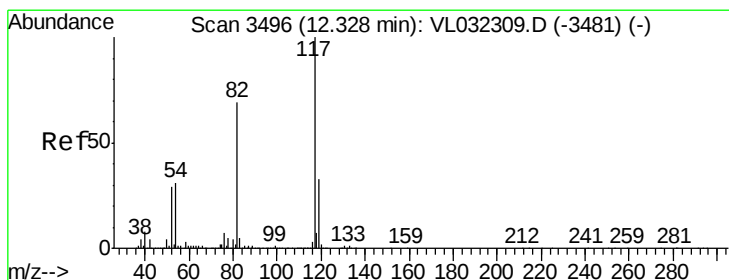
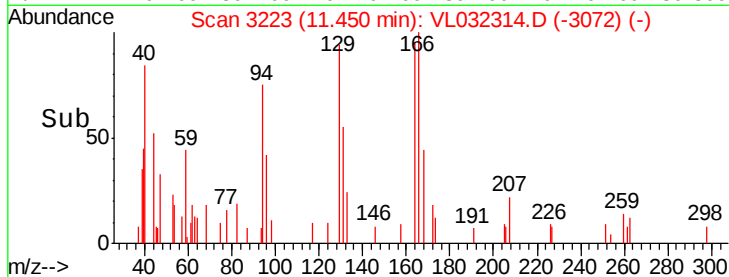
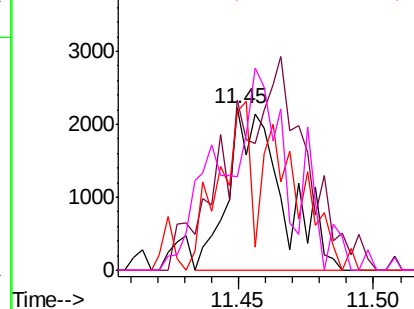
Abundance

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: 10.00 ppbv

RT: 12.32 min Scan# 3495

Delta R.T. -0.00 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

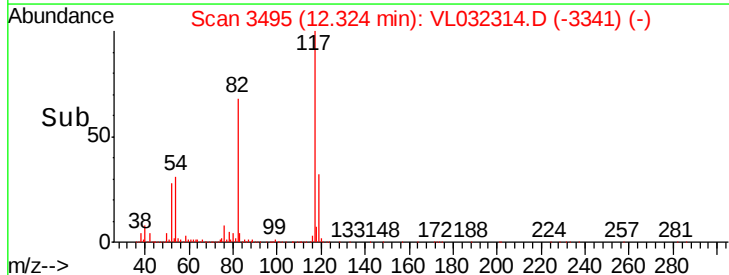
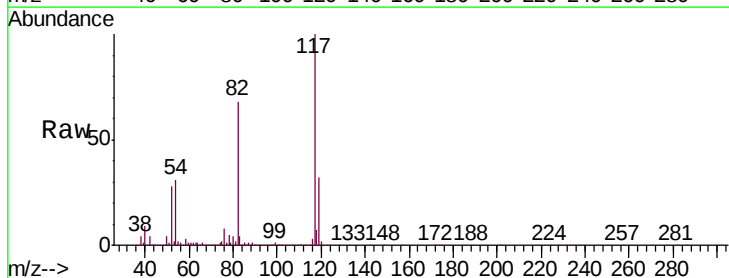
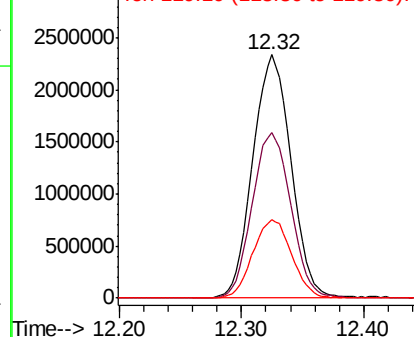
Tgt Ion	Ratio	Lower	Upper
117	100		
82	69.5	52.6	78.8
119	32.9	25.7	38.5

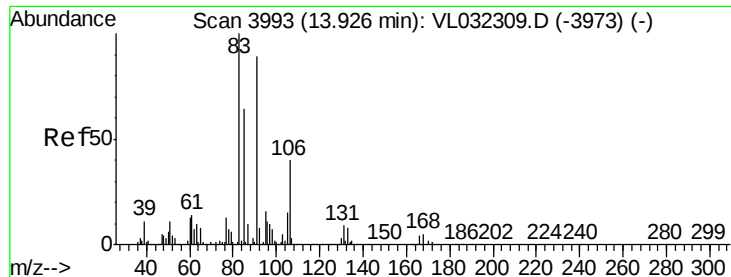
Abundance

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: 0.03 ppbv m

RT: 13.93 min Scan# 3993

Delta R.T. -0.00 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 83 Resp: 12954

Ion Ratio Lower Upper

83 100

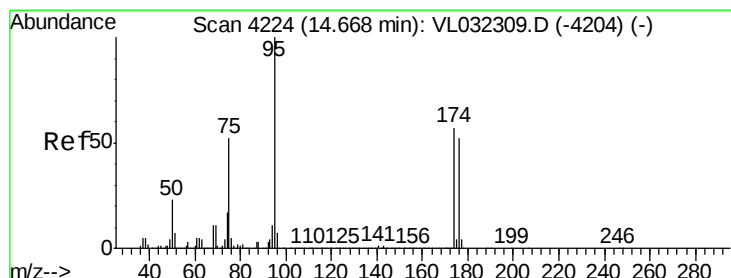
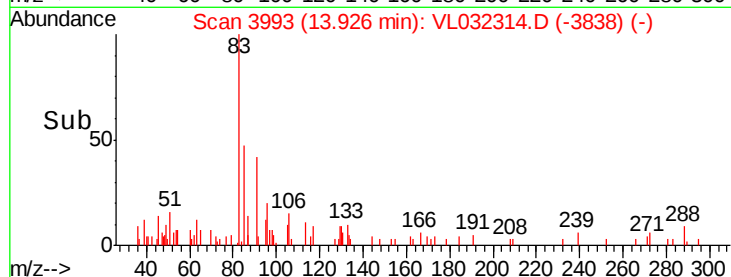
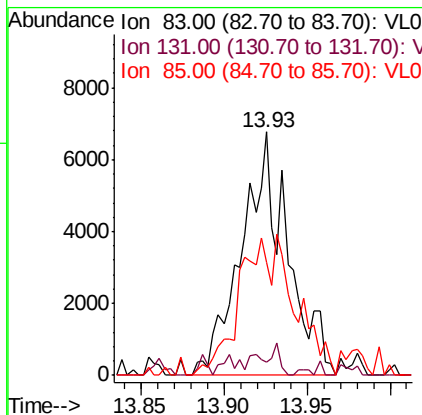
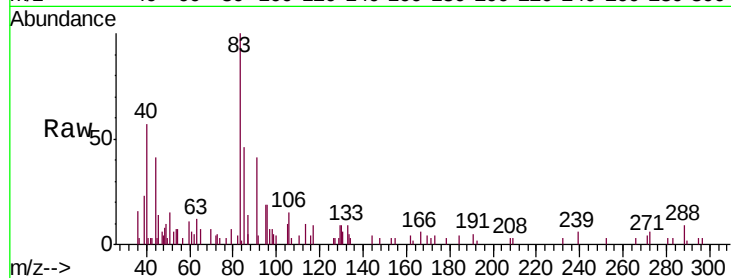
131 0.0 4.3 12.8#

85 0.0 32.6 97.7#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.82 ppbv

RT: 14.66 min Scan# 4222

Delta R.T. -0.01 min

Lab File: VL032314.D

Acq: 27 Jul 2018 3:56

Tgt Ion: 95 Resp: 3978628

Ion Ratio Lower Upper

95 100

174 57.6 45.5 68.3

175 4.0 3.3 4.9

