

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033065.D
 Acq On : 4 Jan 2019 11:57
 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

MMDadoda
 1/8/2019 12:01:09 AM

Quant Time: Jan 04 12:55:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1144094	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2767113	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2604219	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2053363	10.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	8568	0.100	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	21851	0.098	ppbv	92
35) Carbon Tetrachloride	7.14	117	24844	0.104	ppbv #	88
38) Trichloroethene	7.97	130	9030m	0.095	ppbv	
52) Tetrachloroethene	11.38	164	7686m	0.093	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.84	83	19792	0.087	ppbv	83

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

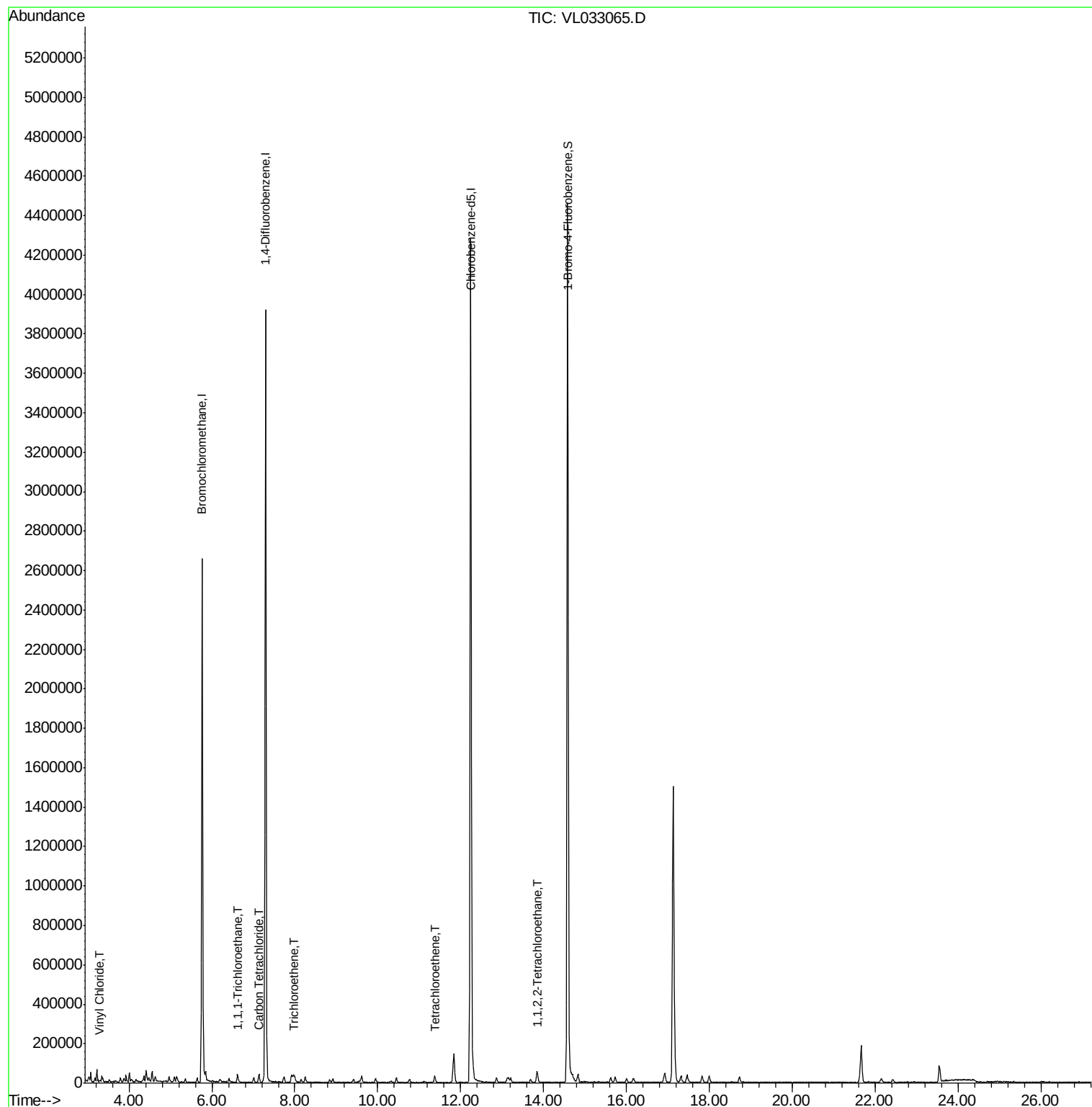
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL010419\
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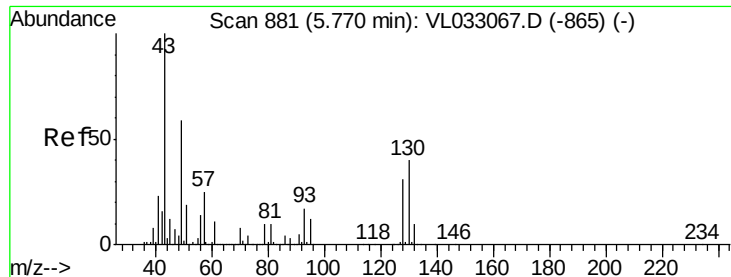
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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#1

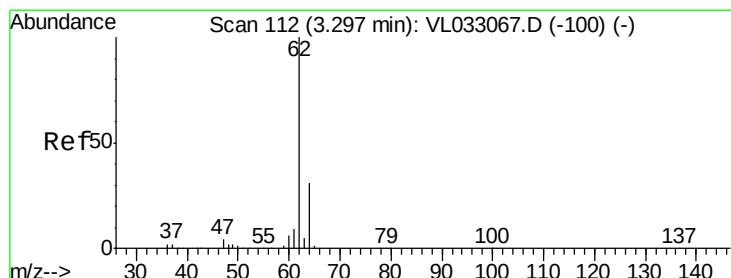
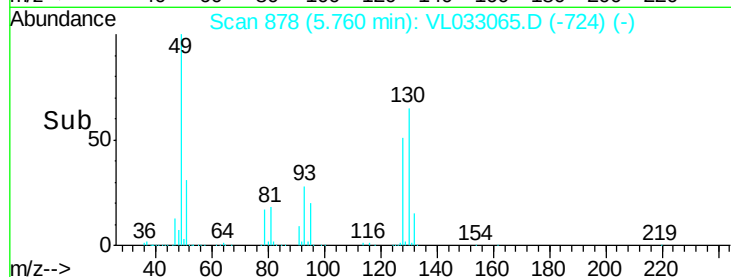
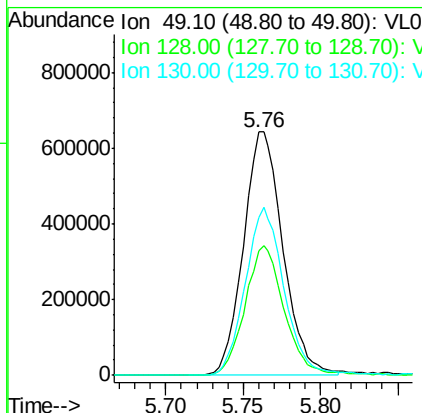
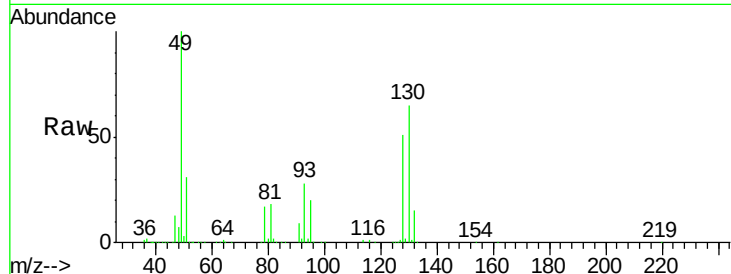
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 878
 Delta R.T. -0.01 min
 Lab File: VL033065.D
 Acq: 4 Jan 2019 11:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion: 49 Resp: 1144094
 Ion Ratio Lower Upper
 49 100
 128 53.1 26.2 78.5
 130 68.8 33.6 100.6

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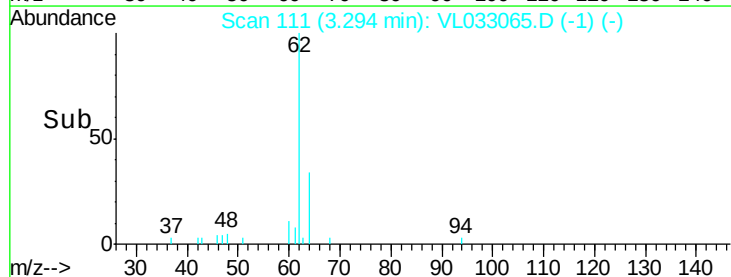
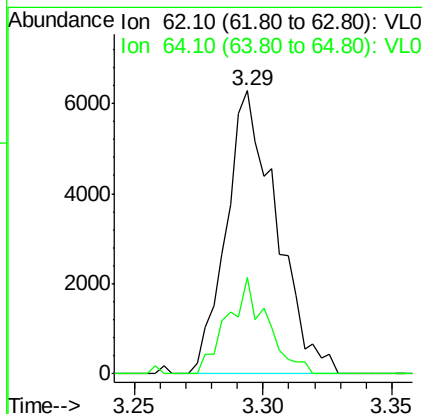
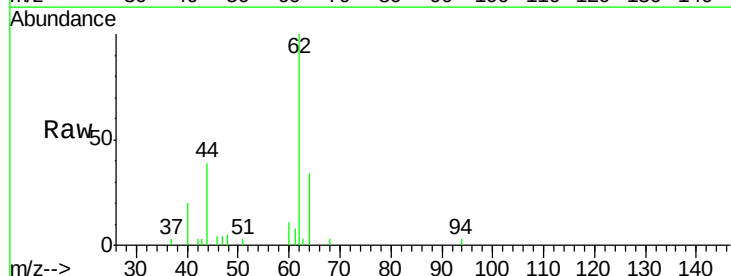
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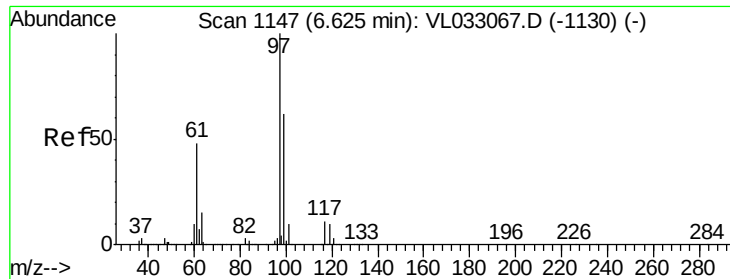


#5

Vinyl Chloride
 Concen: 0.100 ppbv
 RT: 3.29 min Scan# 111
 Delta R.T. 0.00 min
 Lab File: VL033065.D
 Acq: 4 Jan 2019 11:57

Tgt Ion: 62 Resp: 8568
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.3 37.9





#32

1,1,1-Trichloroethane

Concen: 0.098 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VL033065.D

Acq: 4 Jan 2019 11:57

Instrument :

MSVOA_L

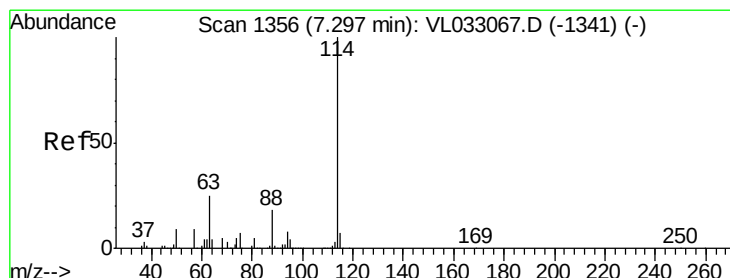
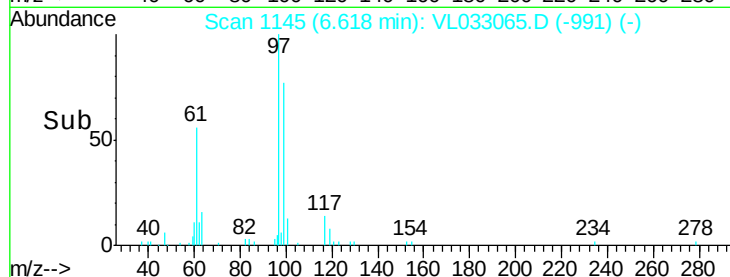
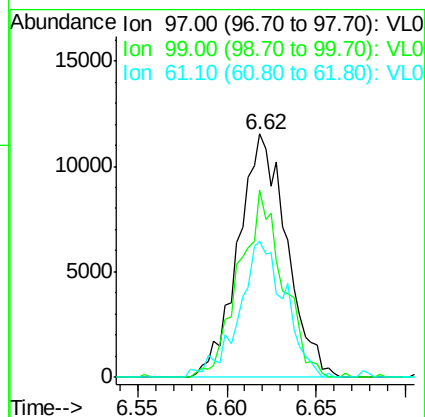
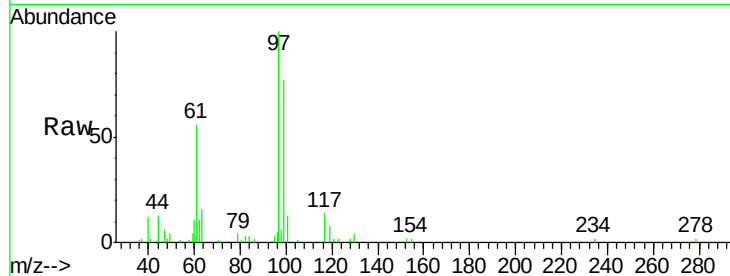
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	21851
Ion	Ratio	Lower	Upper
97	100		
99	69.7	51.1	76.7
61	53.3	38.3	57.5

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

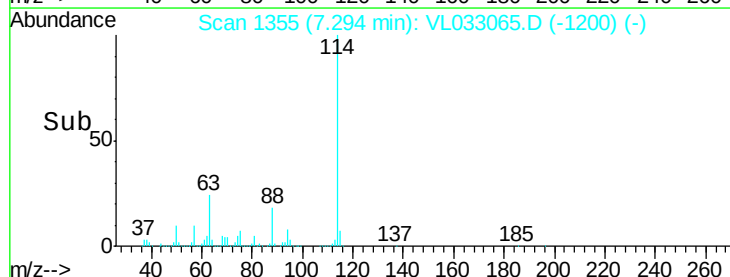
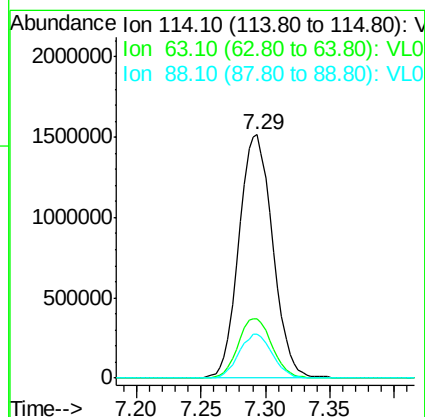
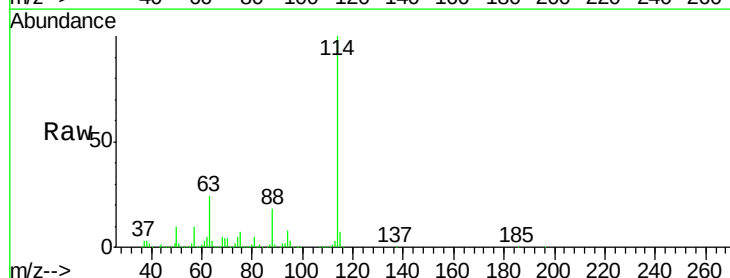
RT: 7.29 min Scan# 1355

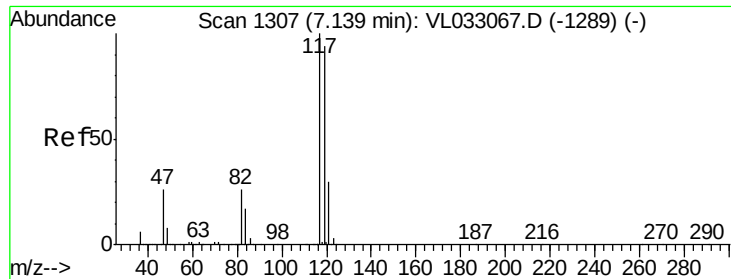
Delta R.T. -0.00 min

Lab File: VL033065.D

Acq: 4 Jan 2019 11:57

Tgt Ion:	114	Resp:	2767113
Ion	Ratio	Lower	Upper
114	100		
63	24.7	20.1	30.1
88	17.8	14.0	21.0





#35

Carbon Tetrachloride

Concen: 0.104 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033065.D

Acq: 4 Jan 2019 11:57

Instrument :

MSVOA_L

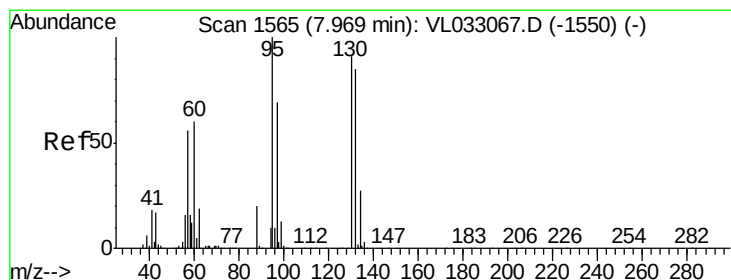
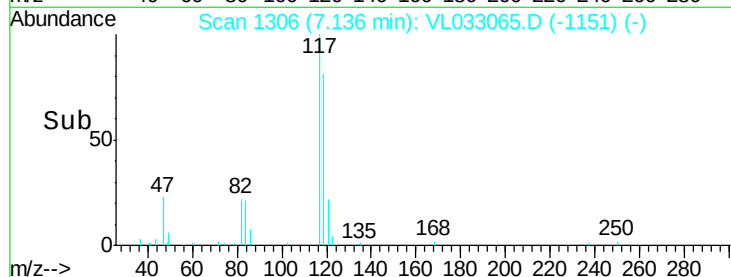
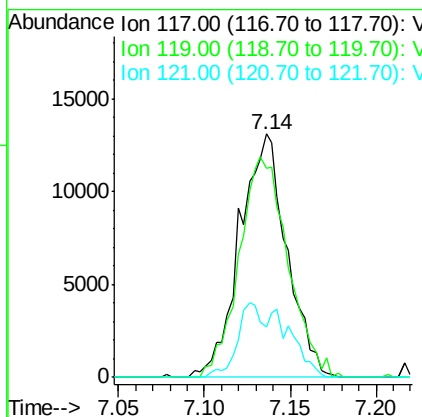
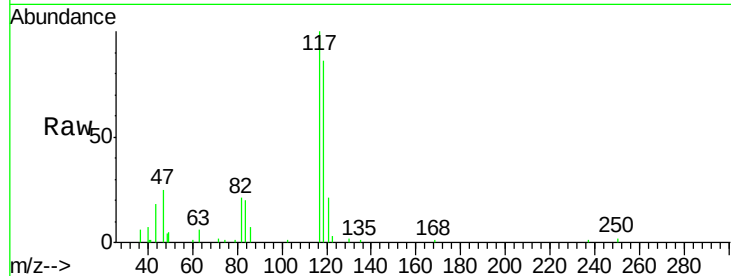
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	24844
Ion	Ratio	Lower	Upper
117	100		
119	85.7	76.5	114.7
121	20.9	25.2	37.8#

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#38

Trichloroethene

Concen: 0.095 ppbv m

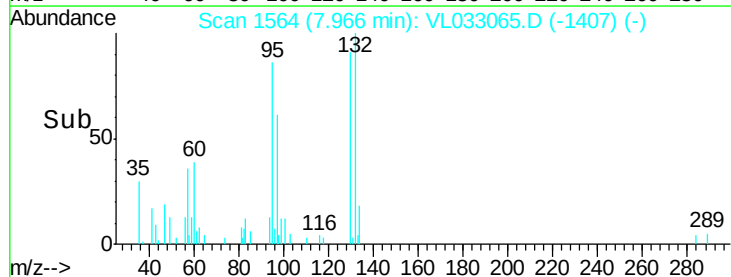
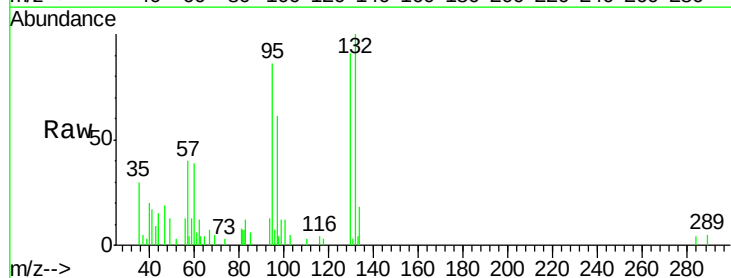
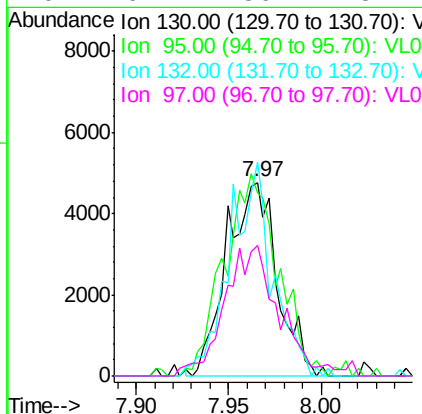
RT: 7.97 min Scan# 1564

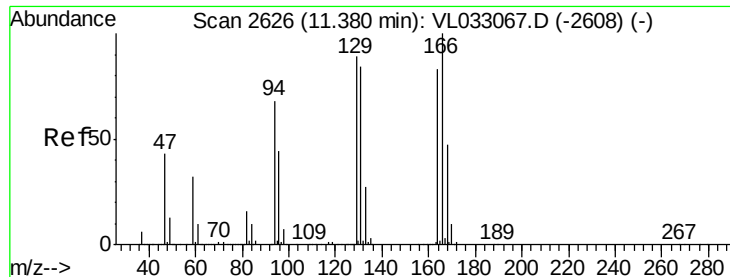
Delta R.T. 0.00 min

Lab File: VL033065.D

Acq: 4 Jan 2019 11:57

Tgt Ion:	130	Resp:	9030
Ion	Ratio	Lower	Upper
130	100		
95	95.0	88.6	132.8
132	110.5	74.2	111.2
97	67.4	56.2	84.2





#52

Tetrachloroethene

Concen: 0.093 ppbv m

RT: 11.38 min Scan# 2626

Delta R.T. 0.00 min

Lab File: VL033065.D

Acq: 4 Jan 2019 11:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 7686

Ion Ratio Lower Upper

164 100

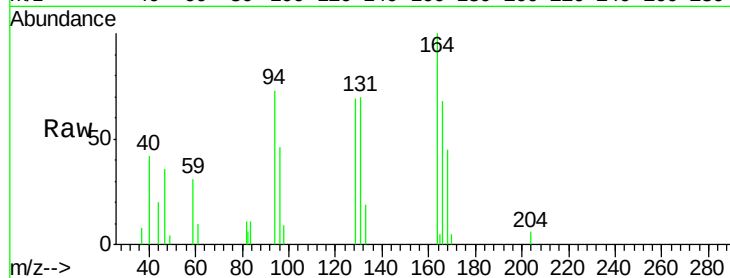
166 67.6 100.8 151.2#

129 68.9 84.6 126.8#

131 70.2 80.7 121.1#

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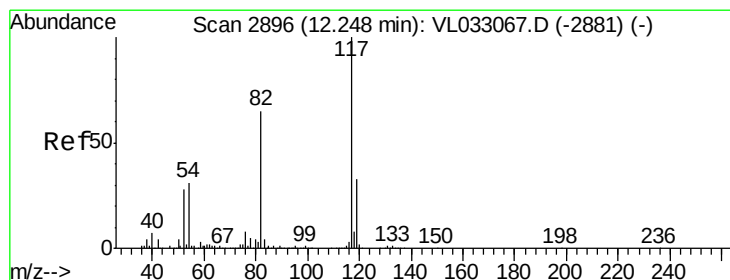
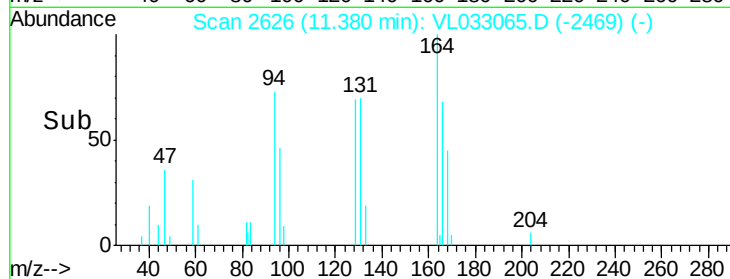
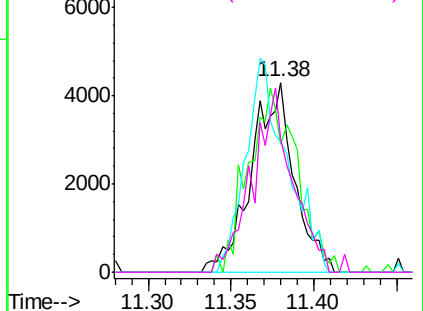


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL033065.D

Acq: 4 Jan 2019 11:57

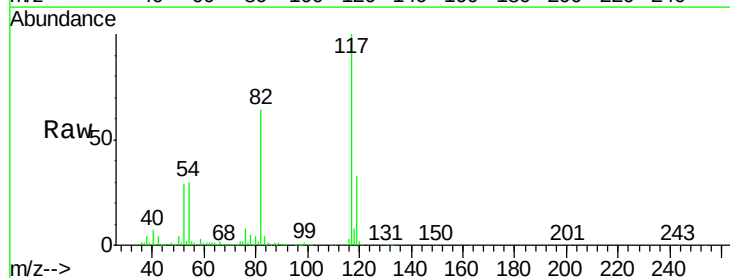
Tgt Ion:117 Resp: 2604219

Ion Ratio Lower Upper

117 100

82 65.1 48.9 73.3

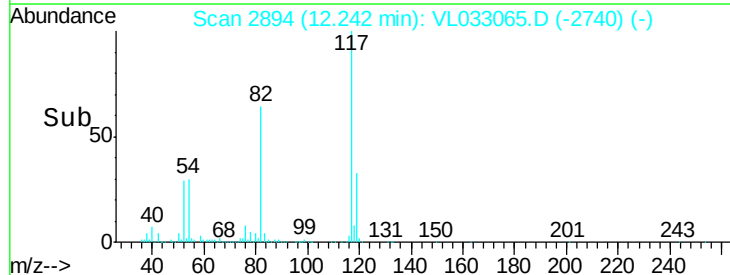
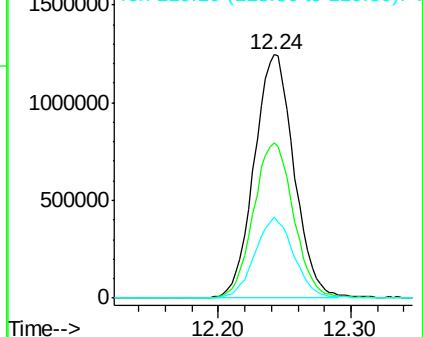
119 32.8 24.6 37.0

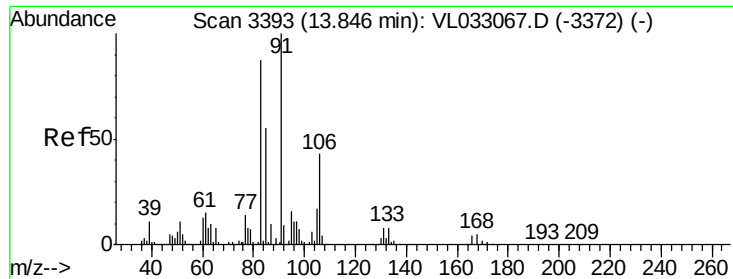


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





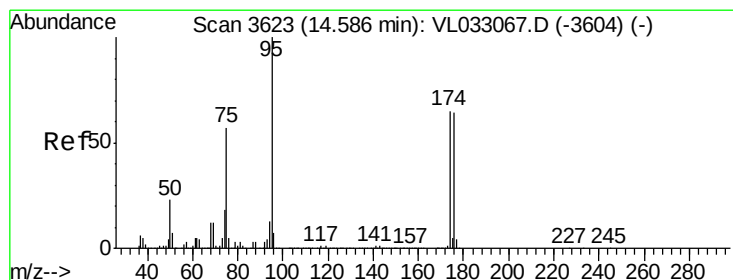
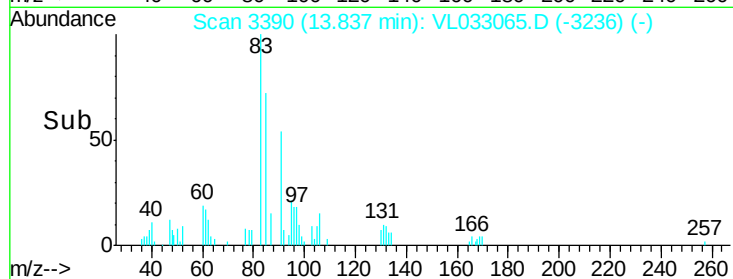
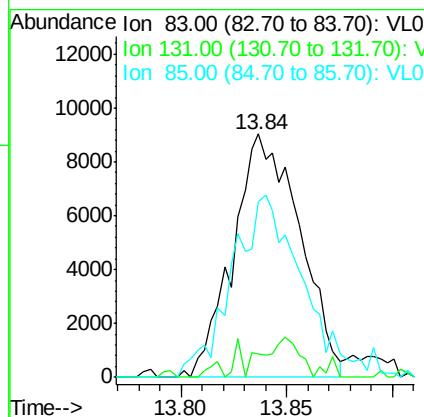
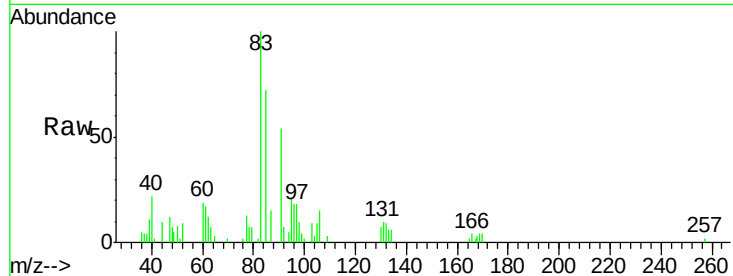
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.087 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033065.D
 Acq: 4 Jan 2019 11:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	83	Resp	19792
Ion Ratio	Lower	Upper	
83	100		
131	12.9	4.8	14.4
85	80.0	32.6	97.8

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.571 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL033065.D
 Acq: 4 Jan 2019 11:57

Tgt Ion	95	Resp	2053363
Ion Ratio	Lower	Upper	
95	100		
174	64.5	51.9	77.9
175	4.7	3.9	5.9

