

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033469.D
 Acq On : 27 Mar 2019 15:23
 Operator : SY/AP
 Sample : K1560-15 0.03 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:48 AM

Quant Time: Mar 28 08:36:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 08:36:59 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	725041	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1670954	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1660800	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1313505	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	1705m	0.039	ppbv	
32) 1,1,1-Trichloroethane	6.62	97	4591m	0.039	ppbv	
35) Carbon Tetrachloride	7.13	117	4096m	0.035	ppbv	
38) Trichloroethene	7.96	130	1854m	0.035	ppbv	
52) Tetrachloroethene	11.36	164	2073m	0.039	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	5295m	0.038	ppbv	

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

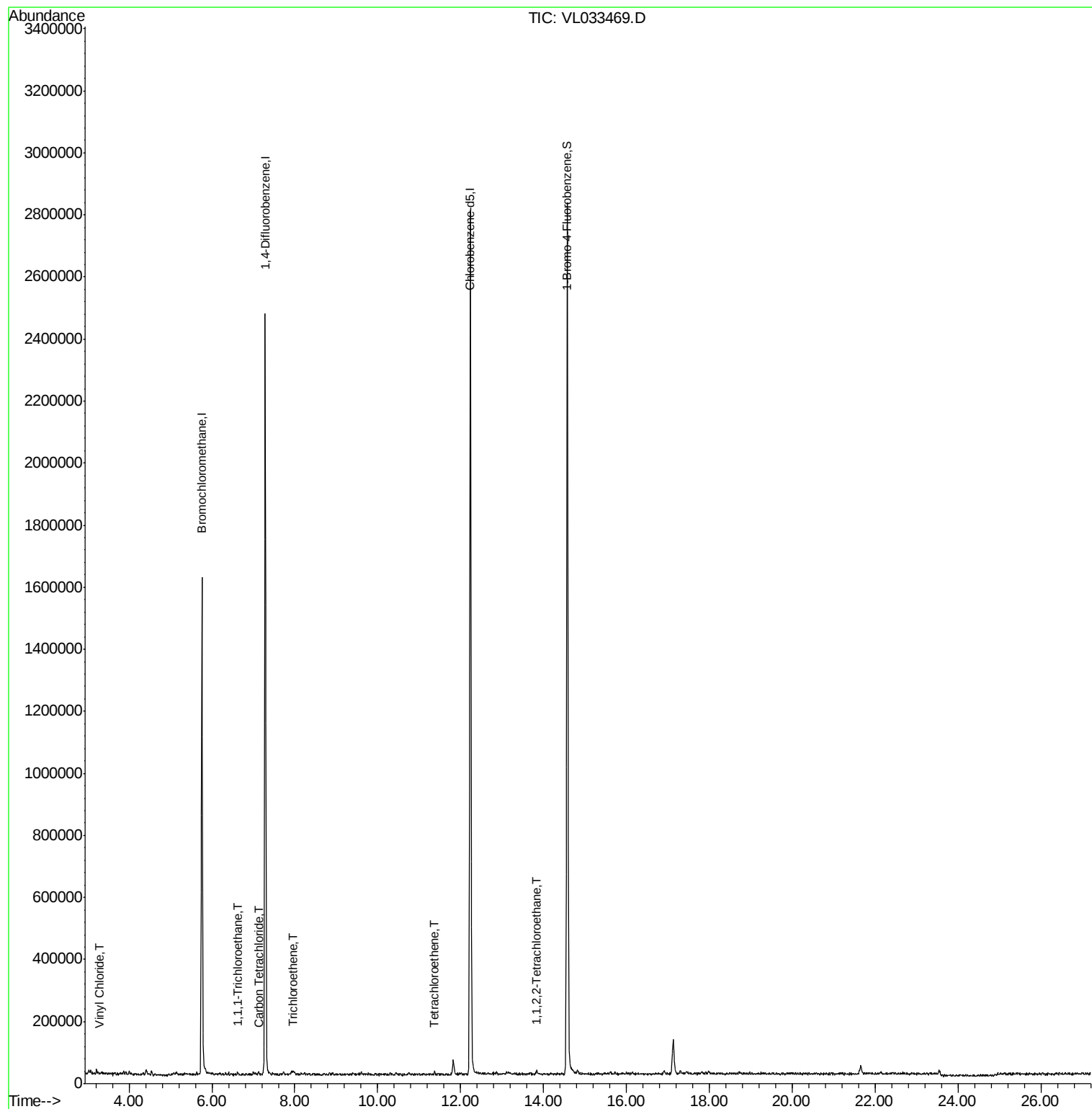
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033469.D
Acq On : 27 Mar 2019 15:23
Operator : SY/AP
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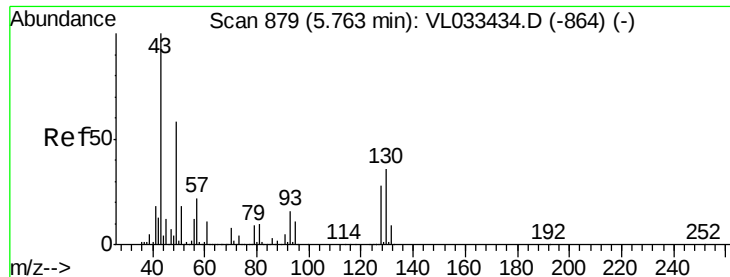
Instrument :
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#1

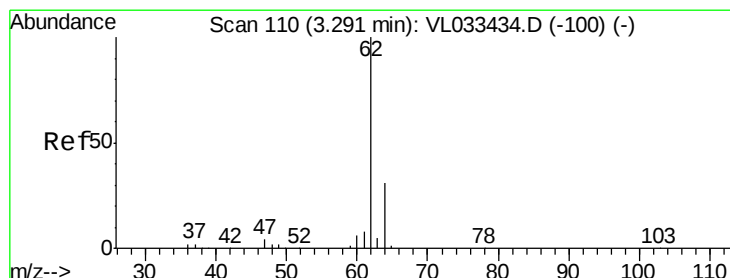
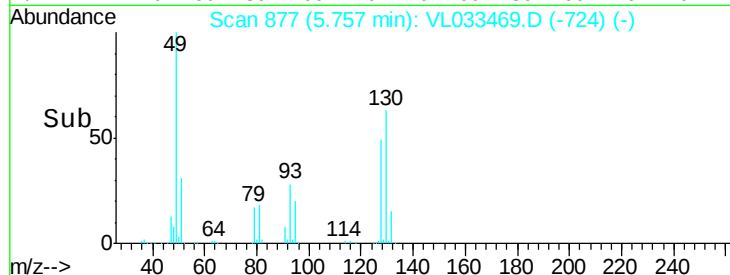
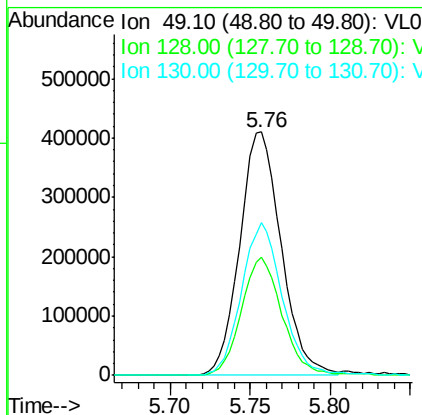
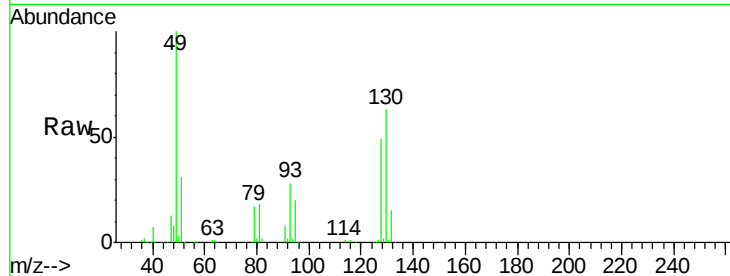
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. -0.01 min
 Lab File: VL033469.D
 Acq: 27 Mar 2019 15:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.2	24.0	72.0
130	62.3	31.2	93.6

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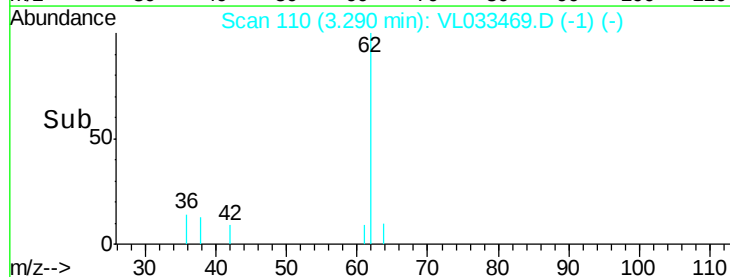
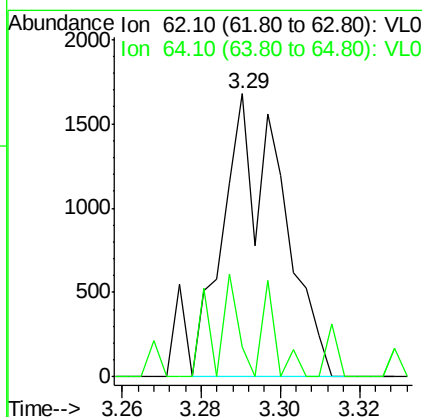
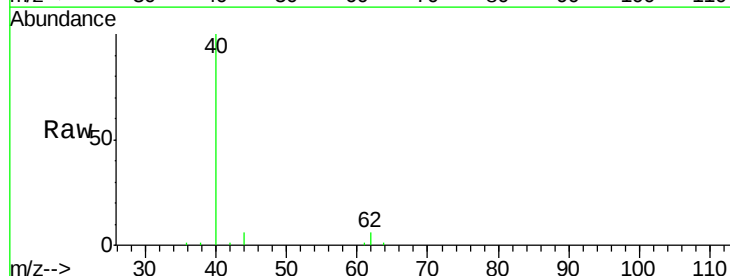
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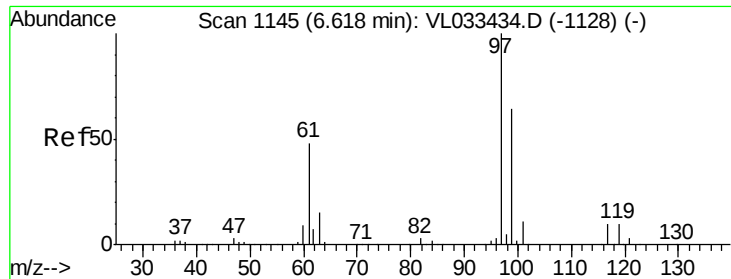


#5

Vinyl Chloride
 Concen: 0.039 ppbv m
 RT: 3.29 min Scan# 110
 Delta R.T. -0.00 min
 Lab File: VL033469.D
 Acq: 27 Mar 2019 15:23

Tgt Ion	Ratio	Lower	Upper
62	100		
64	10.4	24.9	37.3#





#32

1,1,1-Trichloroethane

Concen: 0.039 ppbv m

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033469.D

Acq: 27 Mar 2019 15:23

Instrument :

MSVOA_L

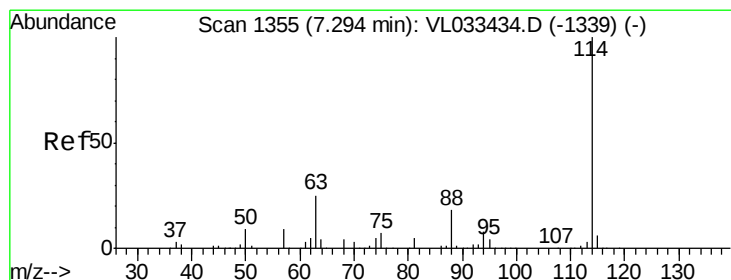
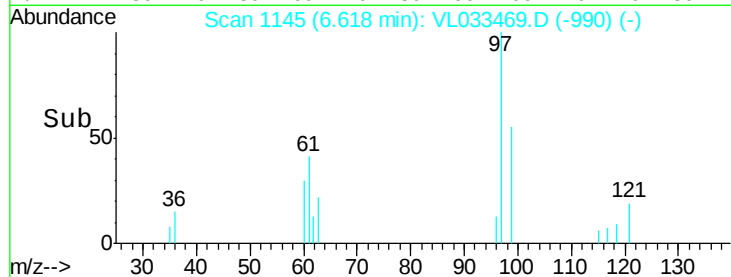
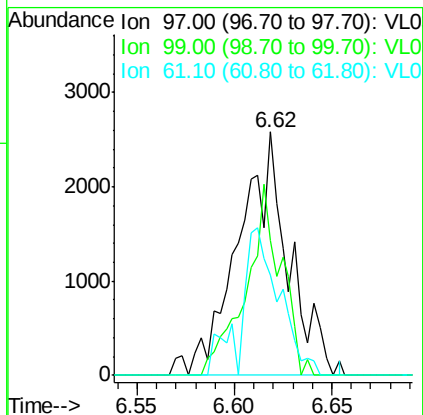
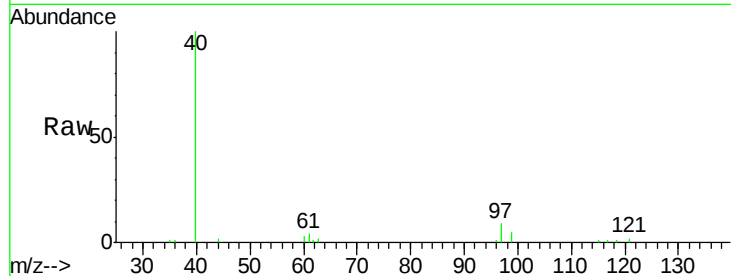
ClientSampleId :

MDL-MDL-AIR-03-QT1-2019

Tot Ion:	97	Resp:	4591
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	47.1	38.8	58.2

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

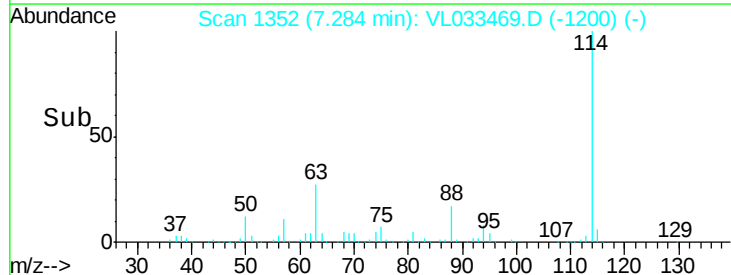
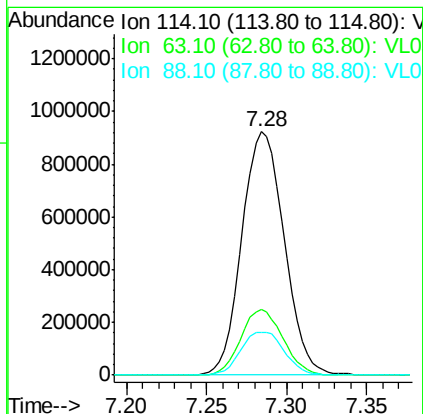
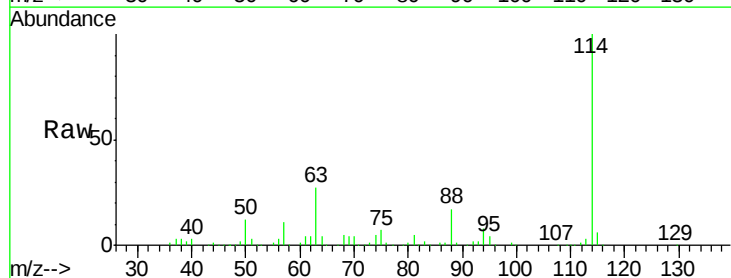
RT: 7.28 min Scan# 1352

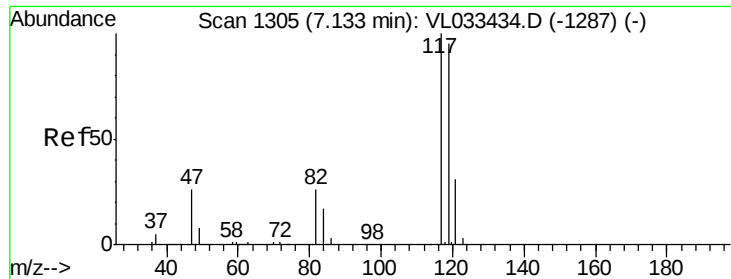
Delta R.T. -0.01 min

Lab File: VL033469.D

Acq: 27 Mar 2019 15:23

Tgt Ion:	114	Resp:	1670954
Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.5	32.3
88	18.2	14.5	21.7





#35

Carbon Tetrachloride

Concen: 0.035 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033469.D

Acq: 27 Mar 2019 15:23

Instrument :

MSVOA_L

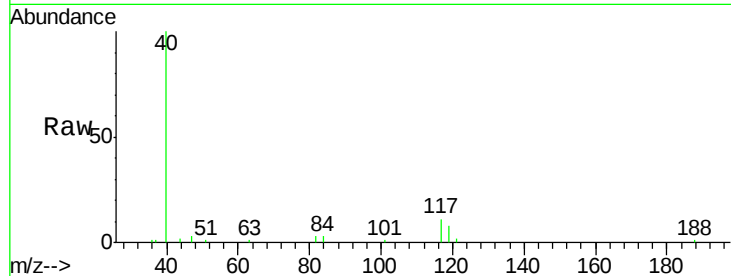
ClientSampleId :

MDL-MDL-AIR-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
117	100		
119	79.8	75.8	113.8
121	19.6	24.7	37.1#

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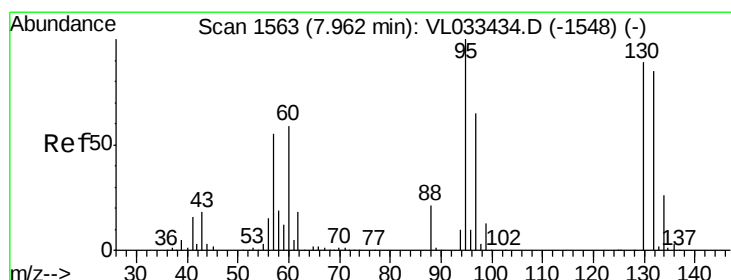
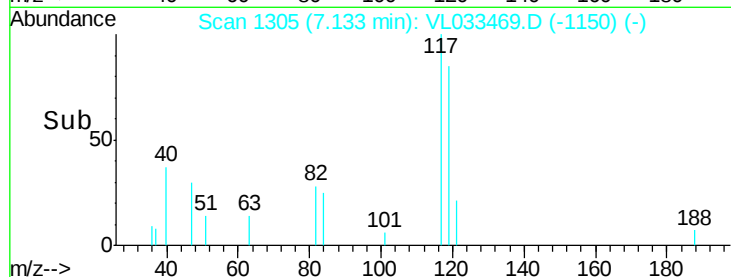
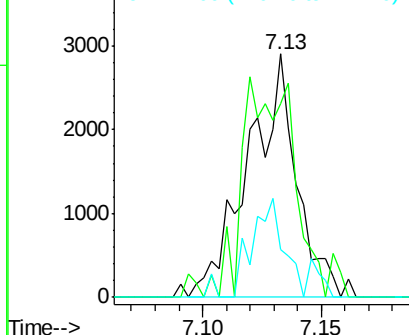


Abundance

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: 0.035 ppbv m

RT: 7.96 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL033469.D

Acq: 27 Mar 2019 15:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	58.0	89.8	134.8#
132	0.0	76.6	115.0#
97	75.0	58.6	88.0

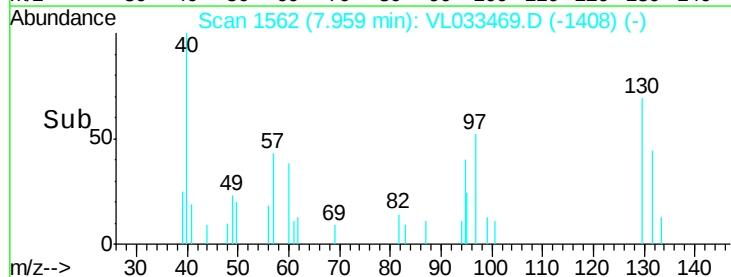
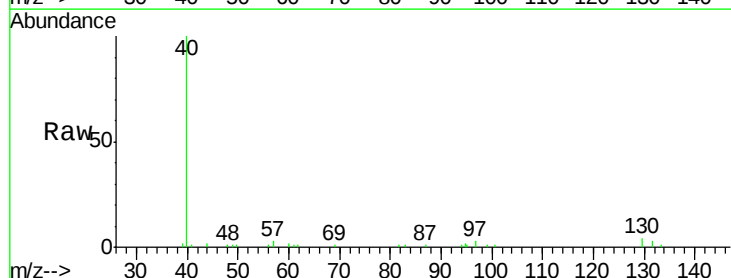
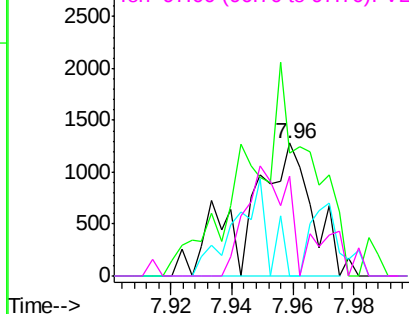
Abundance

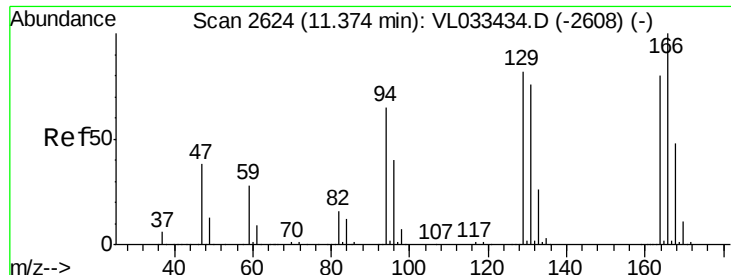
Ion 130.00 (129.70 to 130.70): V

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





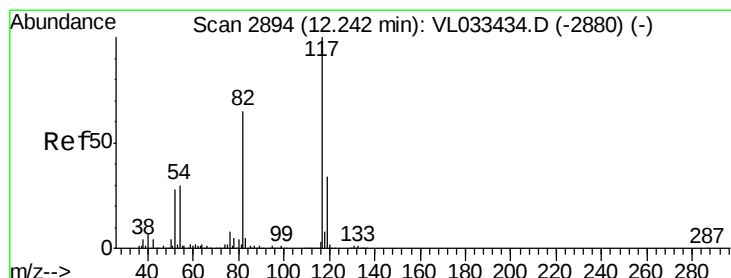
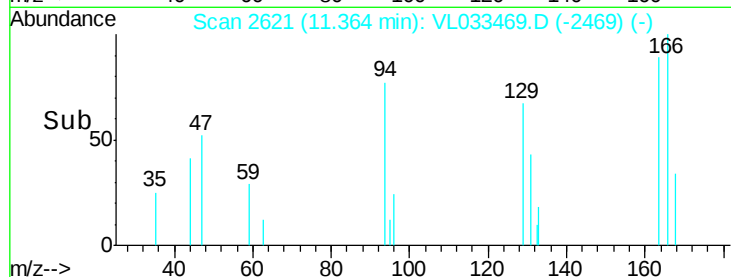
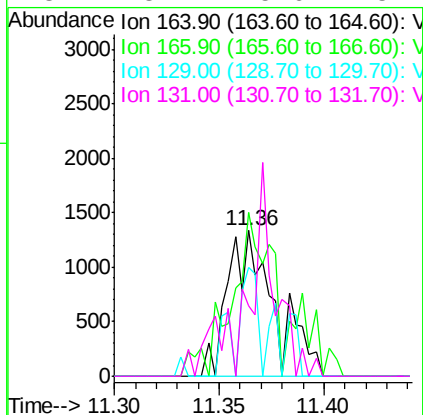
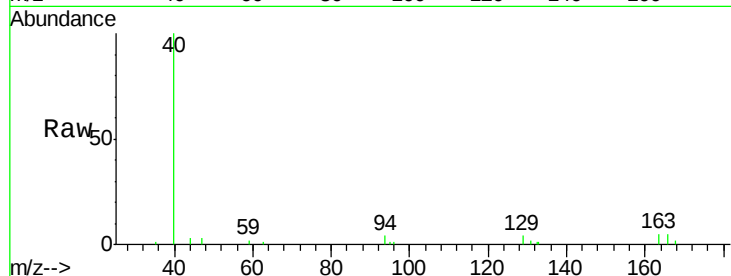
#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 11.36 min Scan# 2621
Delta R.T. -0.01 min
Lab File: VL033469.D
Acq: 27 Mar 2019 15:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
164	100		
166	112.8	99.5	149.3
129	75.1	81.4	122.2#
131	48.7	75.6	113.4#

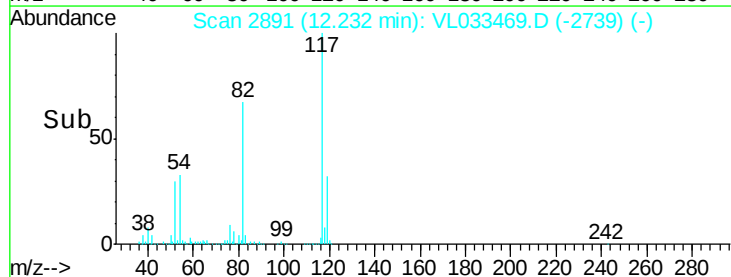
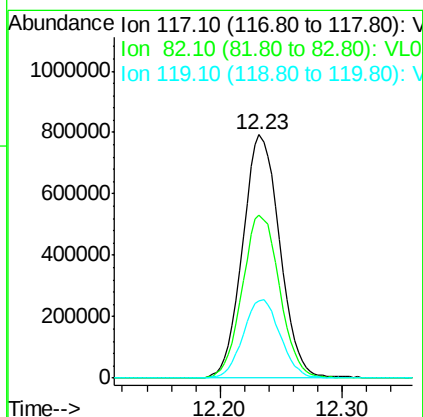
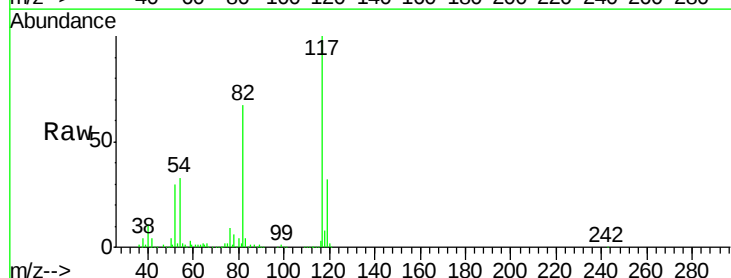
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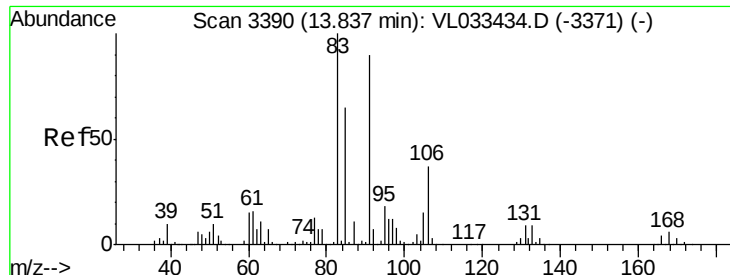
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033469.D
Acq: 27 Mar 2019 15:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.1	51.5	77.3
119	32.5	25.5	38.3





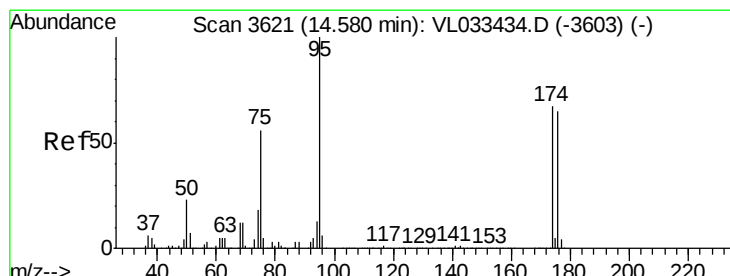
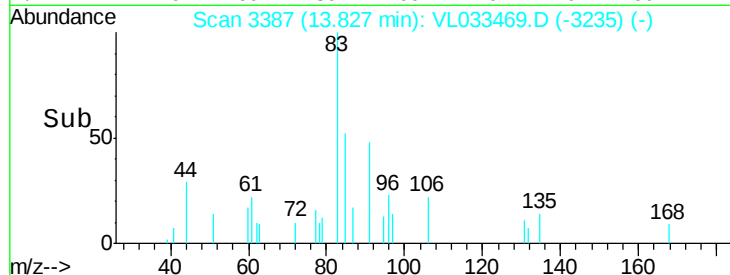
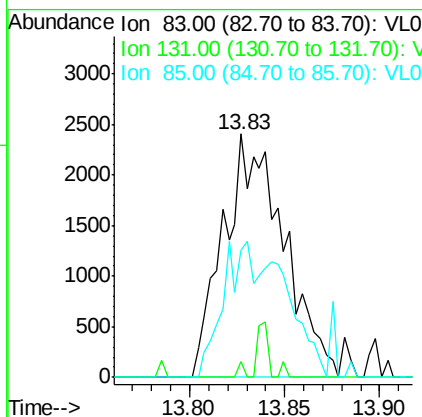
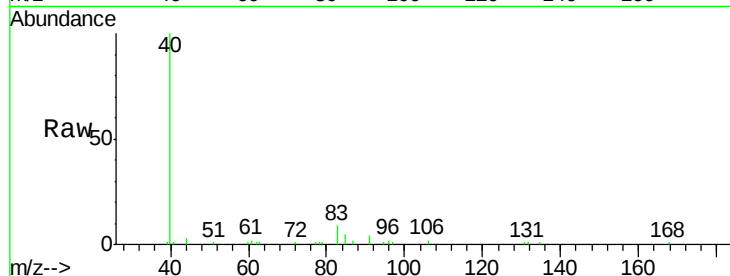
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.038 ppbv m
 RT: 13.83 min Scan# 3387
 Delta R.T. -0.01 min
 Lab File: VL033469.D
 Acq: 27 Mar 2019 15:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.0#
85	0.0	32.7	98.1#

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.088 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033469.D
 Acq: 27 Mar 2019 15:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.3	52.9	79.3
175	4.7	3.8	5.6

