

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033665.D
 Acq On : 6 May 2019 19:09
 Operator : SY/AP
 Sample : K2241-14 0.03PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Manual Integrations
 APPROVED

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 5/8/2019 12:06:52 PM

Quant Time: May 07 04:33:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	973423	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2317073	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2366073	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1937816	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	2075	0.029	ppbv	89
32) 1,1,1-Trichloroethane	6.61	97	6898m	0.037	ppbv	
35) Carbon Tetrachloride	7.13	117	6795m	0.036	ppbv	
38) Trichloroethene	7.95	130	2873m	0.038	ppbv	
52) Tetrachloroethene	11.37	164	3136m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	7535m	0.038	ppbv	

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

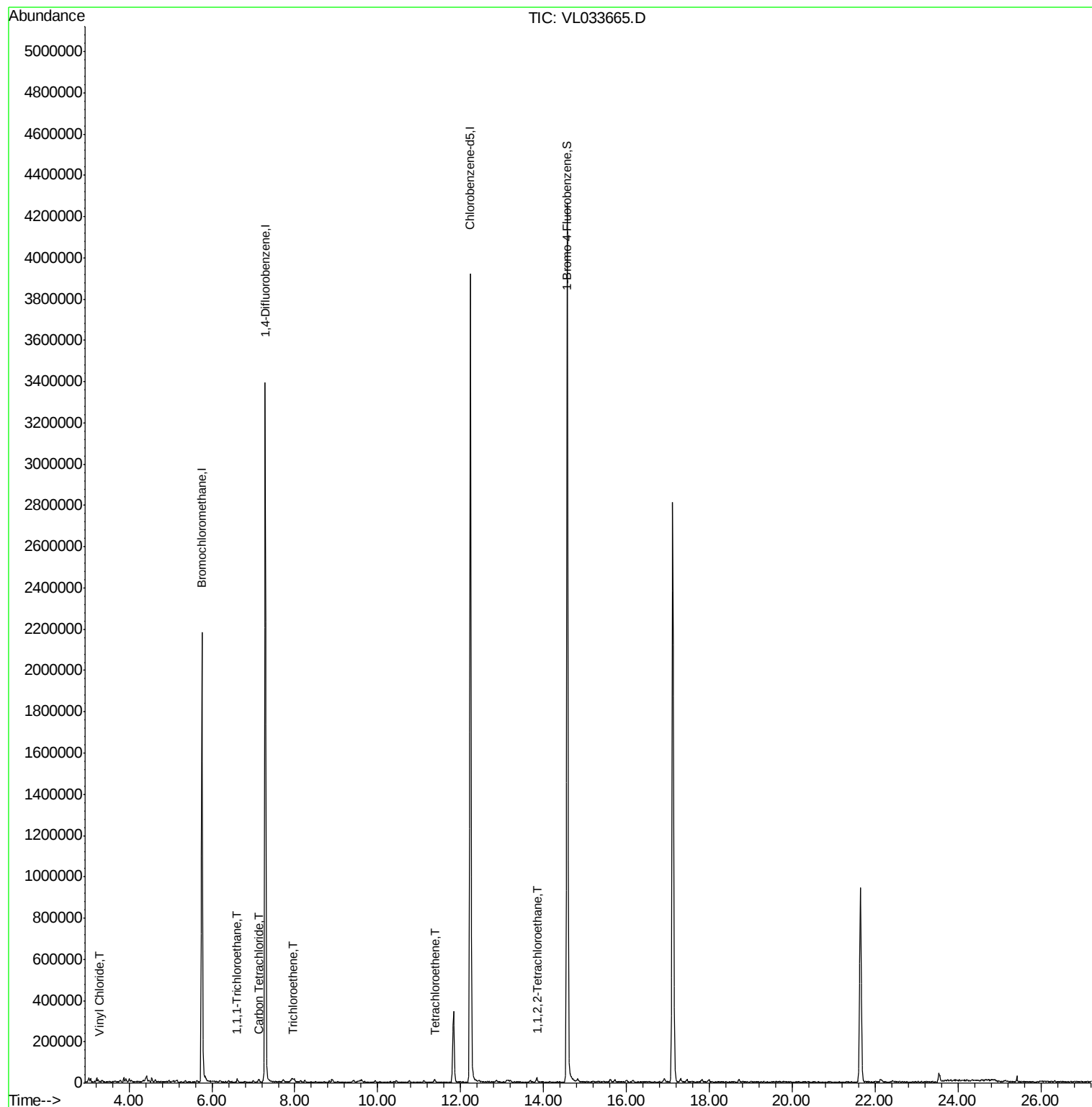
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050619\
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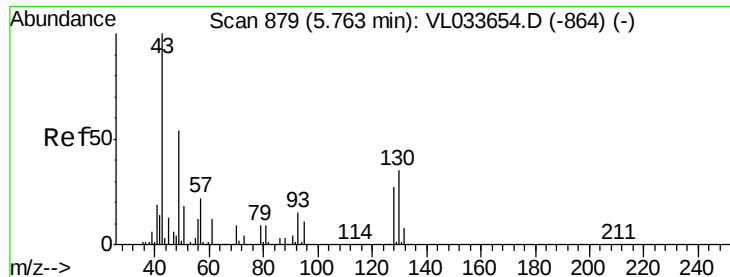
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QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

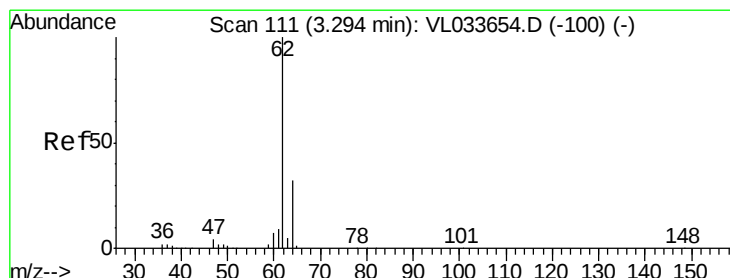
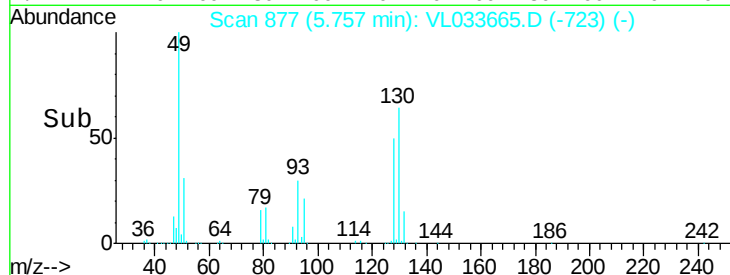
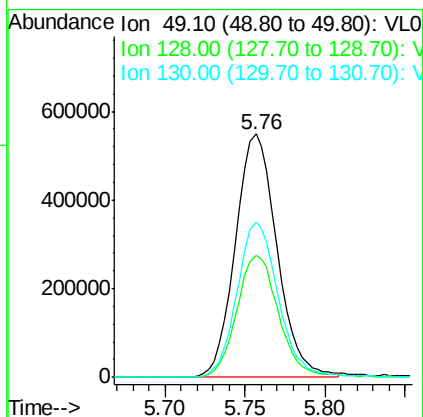
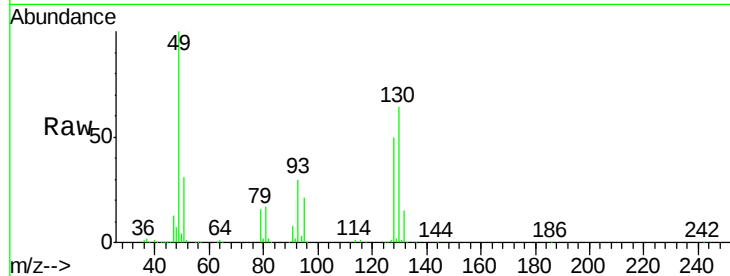
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	49	Resp:	973423
Ion	Ratio	Lower	Upper
49	100		
128	50.6	24.8	74.3
130	63.8	32.1	96.5

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#5

Vinyl Chloride

Concen: 0.029 ppbv

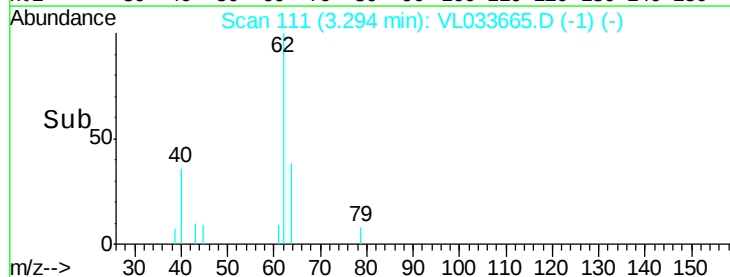
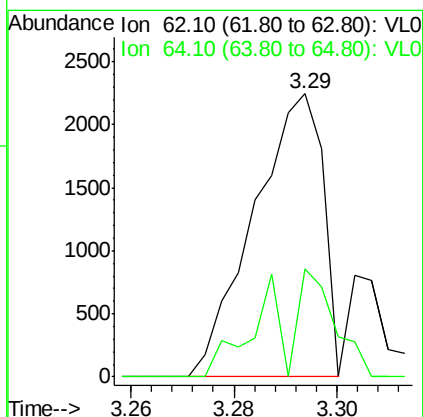
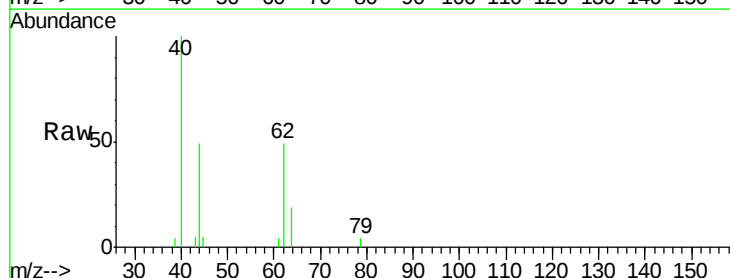
RT: 3.29 min Scan# 111

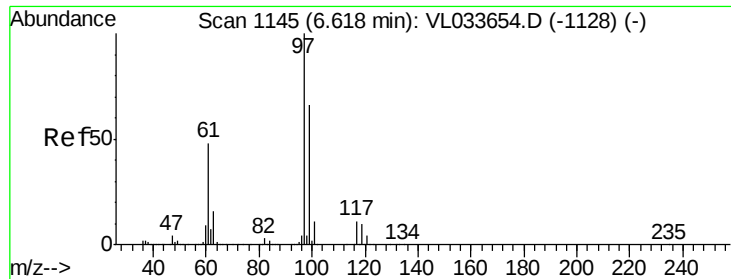
Delta R.T. 0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Tgt Ion:	62	Resp:	2075
Ion	Ratio	Lower	Upper
62	100		
64	38.4	25.6	38.4





#32

1,1,1-Trichloroethane

Concen: 0.037 ppbv m

RT: 6.61 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

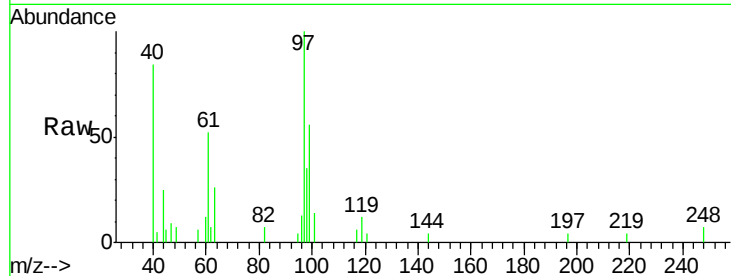
ClientSampleId :

LOQ-AIR-02-QT2-2019

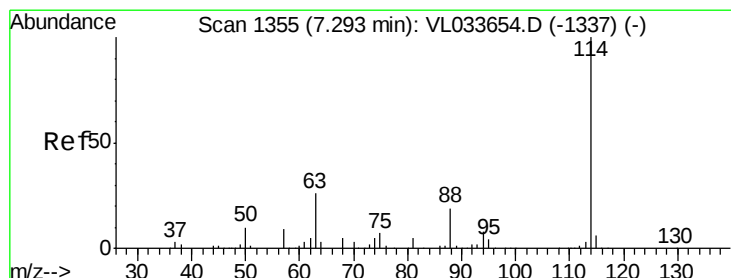
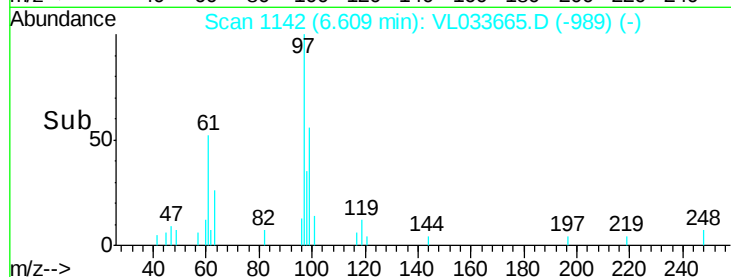
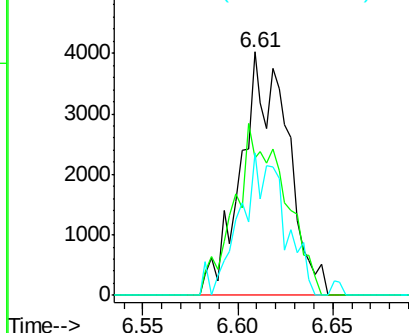
Tot Ion:	97	Resp:	6898
Ion	Ratio	Lower	Upper
97	100		
99	75.1	51.4	77.2
61	57.2	38.5	57.7

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Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

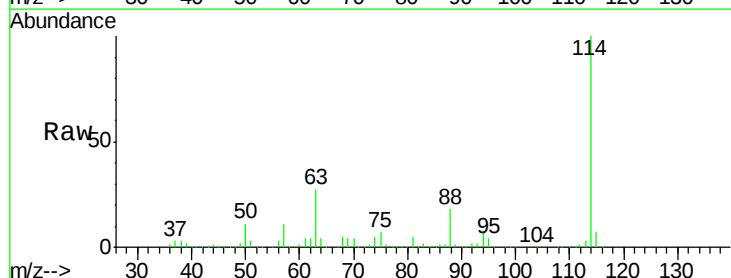
RT: 7.28 min Scan# 1352

Delta R.T. -0.01 min

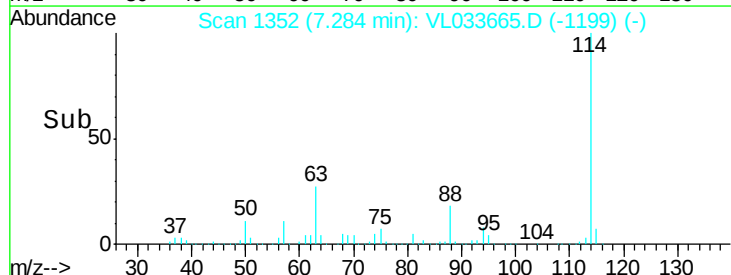
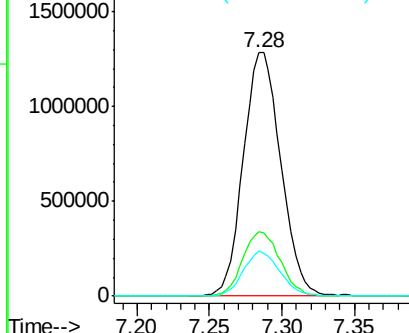
Lab File: VL033665.D

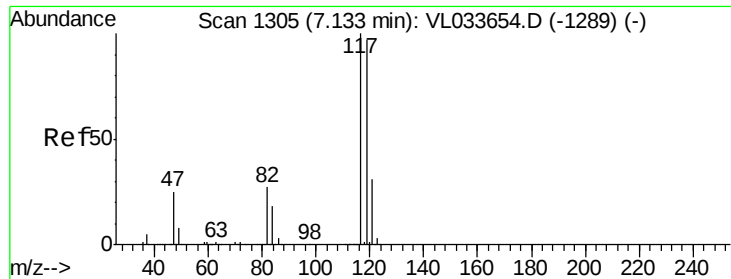
Acq: 6 May 2019 19:09

Tgt Ion:	114	Resp:	2317073
Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.3	31.9
88	18.0	14.4	21.6



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.036 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Instrument :

MSVOA_L

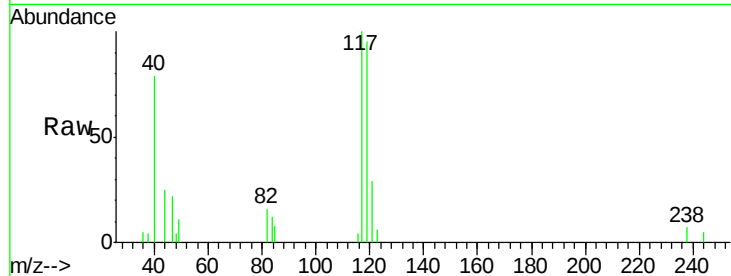
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	117	Resp:	6795
Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.9	116.9
121	29.3	25.0	37.6

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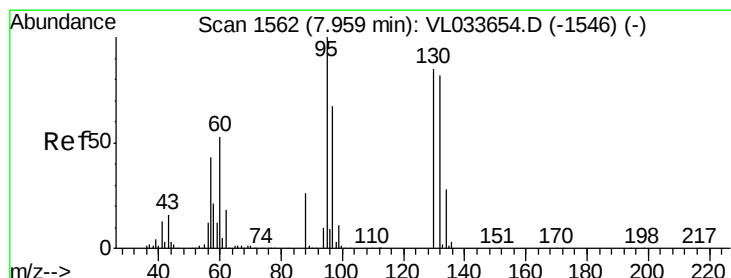
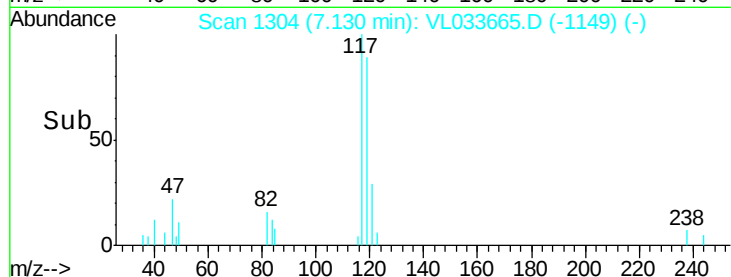
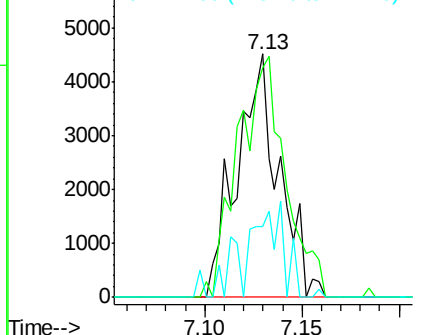


Abundance

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: 0.038 ppbv m

RT: 7.95 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL033665.D

Acq: 6 May 2019 19:09

Tgt Ion:	130	Resp:	2873
Ion	Ratio	Lower	Upper
130	100		
95	88.4	93.4	140.0#
132	57.1	76.2	114.4#
97	85.8	62.2	93.4

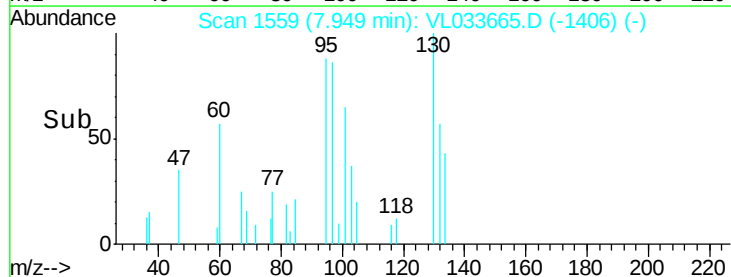
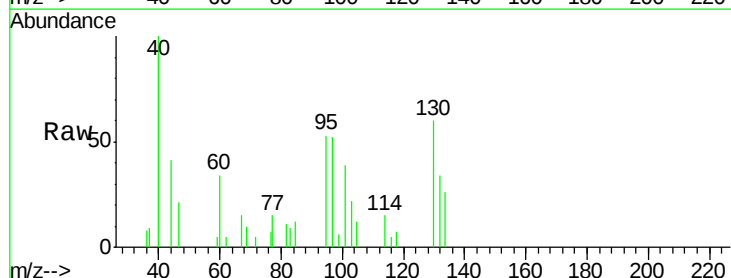
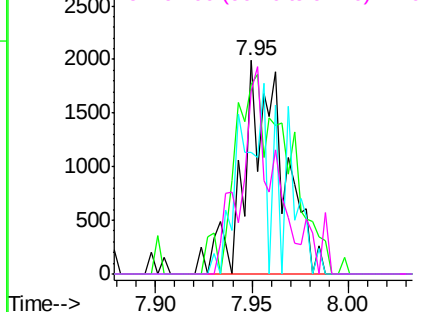
Abundance

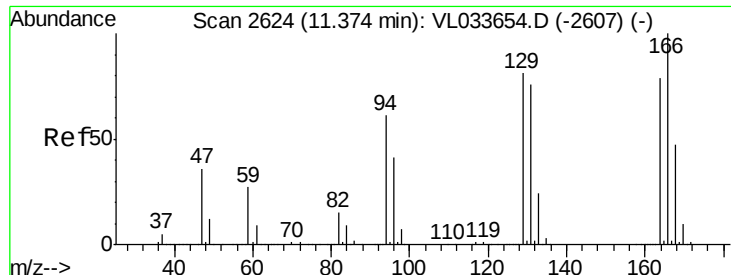
Ion 130.00 (129.70 to 130.70): V

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





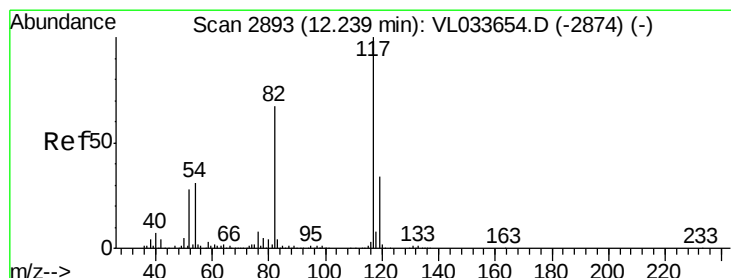
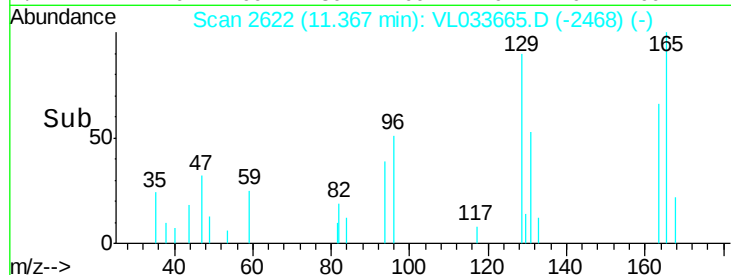
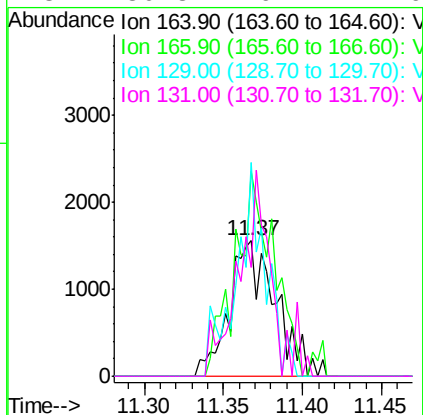
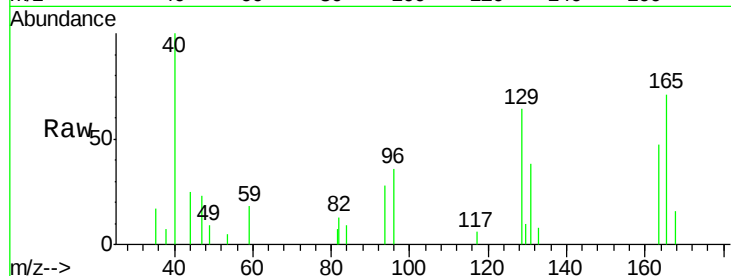
#52
Tetrachloroethene
Concen: 0.043 ppbv m
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
164	100		
166	151.1	100.6	151.0#
129	136.5	81.0	121.6#
131	80.3	76.4	114.6

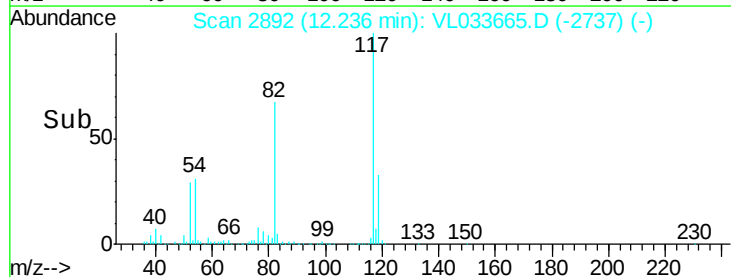
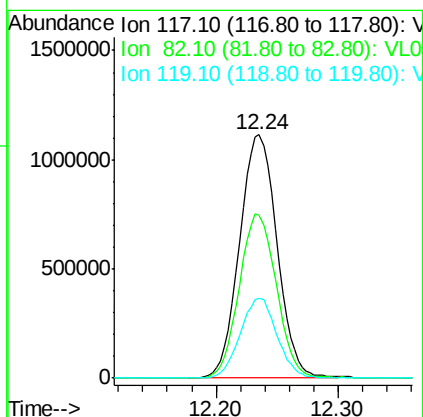
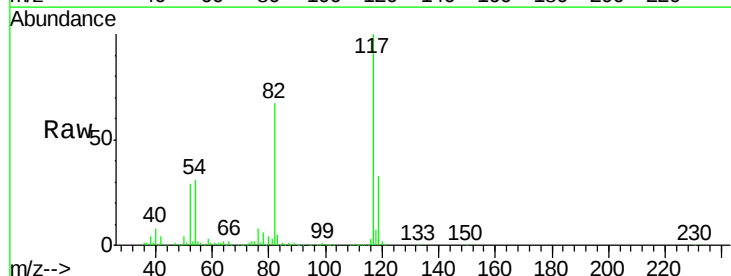
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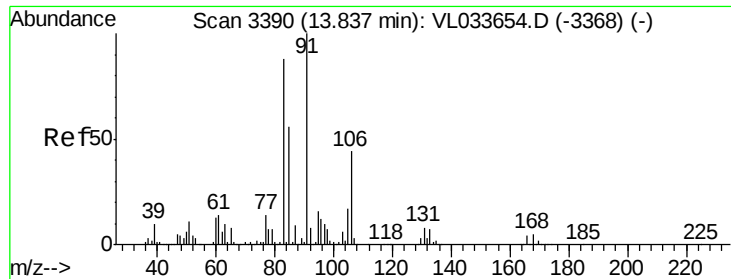
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033665.D
Acq: 6 May 2019 19:09

Tgt Ion	Ratio	Lower	Upper
117	100		
82	67.1	49.7	74.5
119	32.3	24.8	37.2





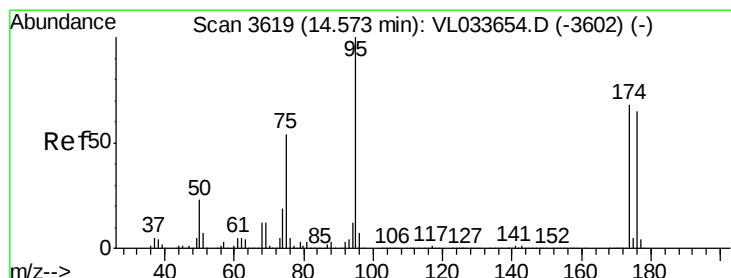
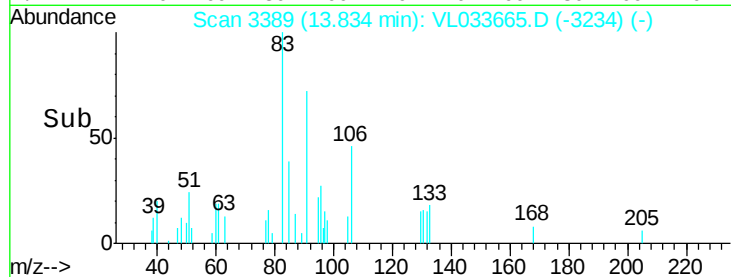
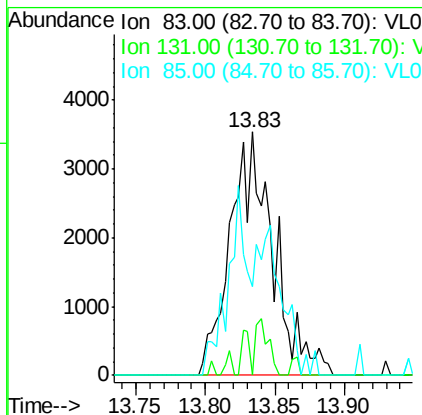
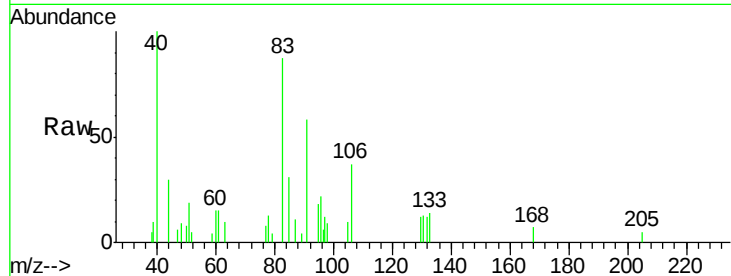
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.038 ppbv m
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.3#
85	0.0	32.5	97.4#

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.991 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.00 min
 Lab File: VL033665.D
 Acq: 6 May 2019 19:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	67.1	54.0	81.0
175	4.8	3.8	5.8

