

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050721\
 Data File : VL036918.D
 Acq On : 7 May 2021 14:16
 Operator : SY/AP
 Sample : M2262-15 0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Quant Time: May 08 04:16:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1179248	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	2802980	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	2390687	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1874697	9.77	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

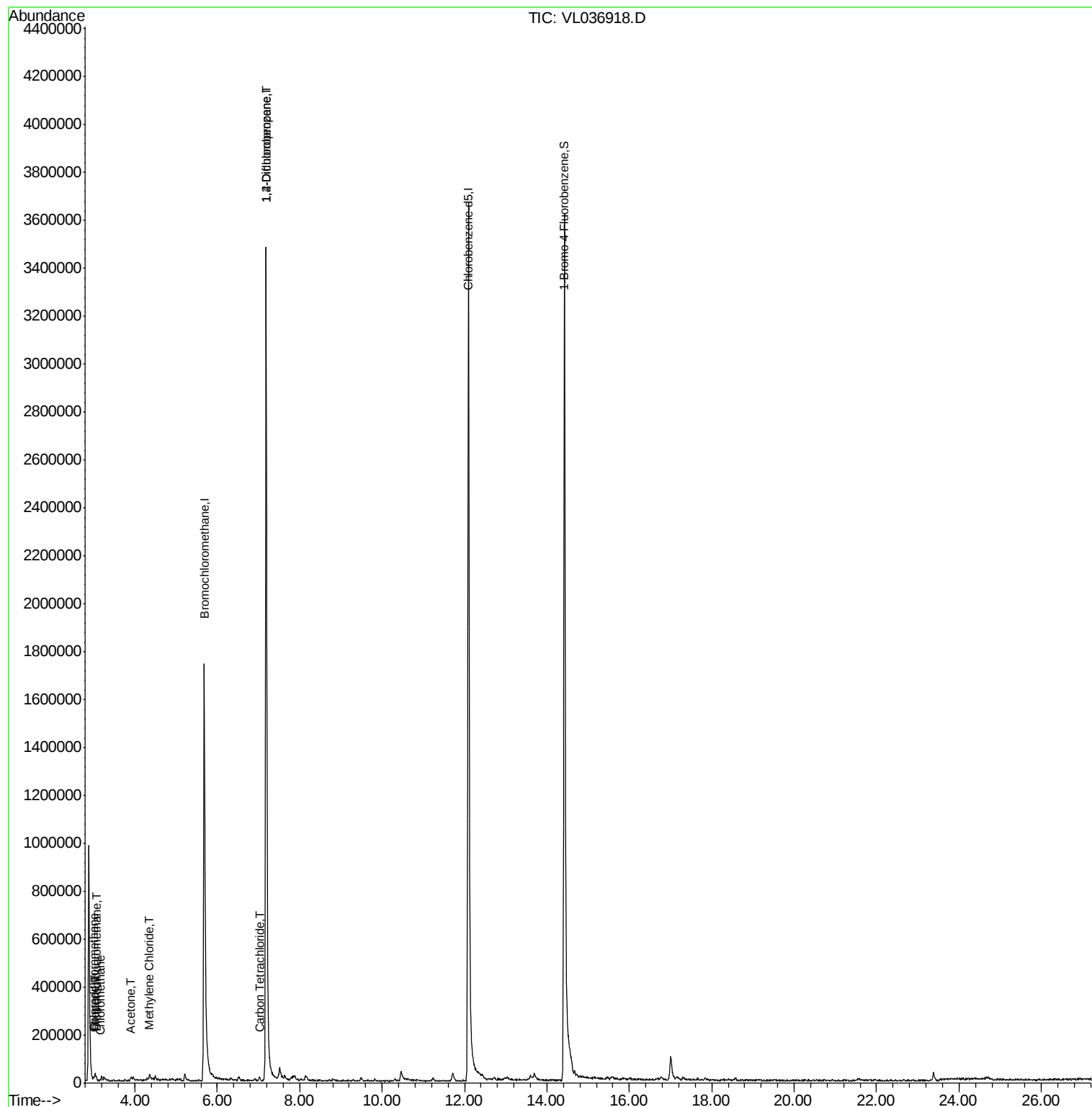
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	12092	0.065	ppbv #	86
3) Chlorodifluoromethane	3.00	51	12944	0.060	ppbv	94
4) Chloromethane	3.15	50	2129	0.030	ppbv	98
9) Propene	3.01	41	2275	0.035	ppbv #	15
15) Acetone	3.89	43	4945	0.044	ppbv #	48
20) Methylene Chloride	4.36	84	7996	0.150	ppbv #	82
35) Carbon Tetrachloride	7.03	117	6283	0.033	ppbv #	66
39) 1,2-Dichloropropane	7.19	63	741423	7.836	ppbv #	24

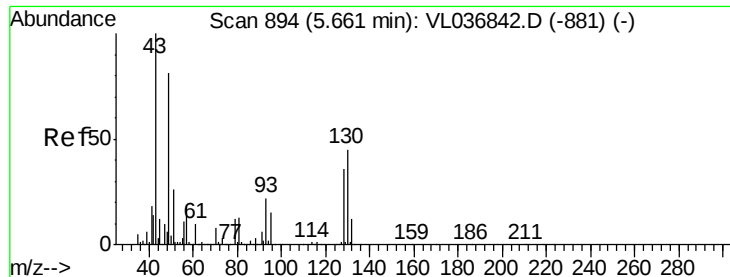
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.02 min

Lab File: VL036918.D

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Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

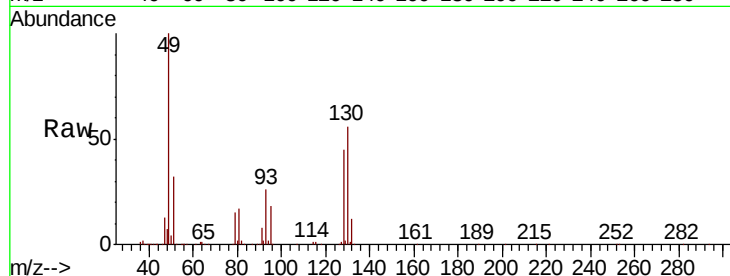
Tot Ion: 49 Resp: 1179248

Ion Ratio Lower Upper

49 100

128 48.1 24.4 73.2

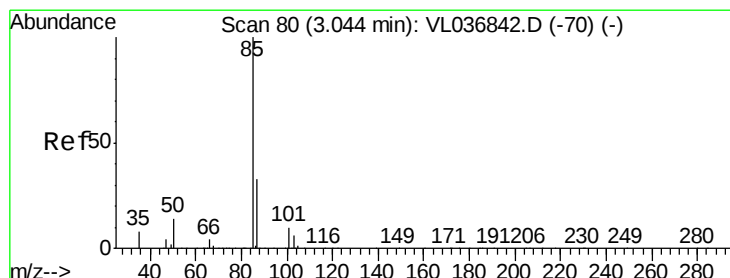
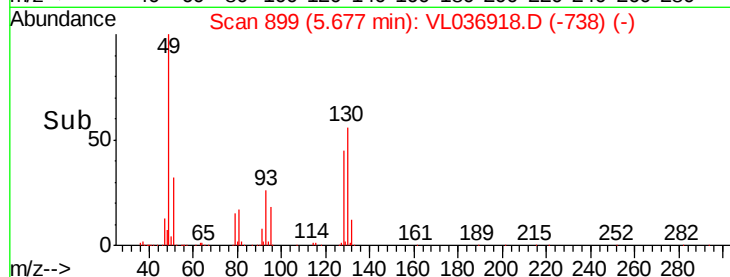
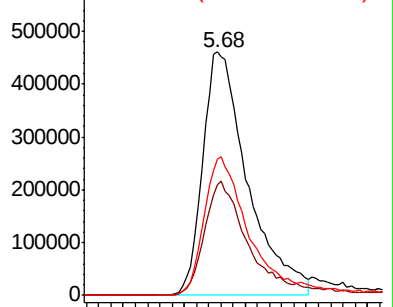
130 60.6 30.3 90.8



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



#2

Dichlorodifluoromethane

Concen: 0.065 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL036918.D

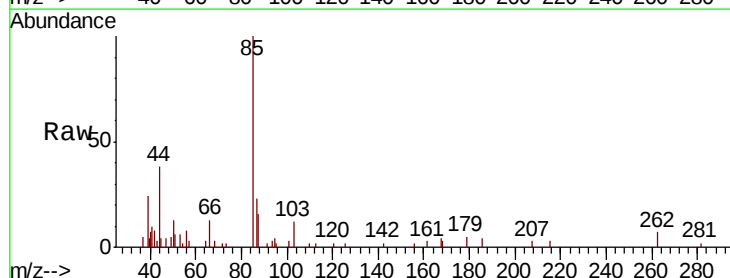
Acq: 7 May 2021 14:16

Tgt Ion: 85 Resp: 12092

Ion Ratio Lower Upper

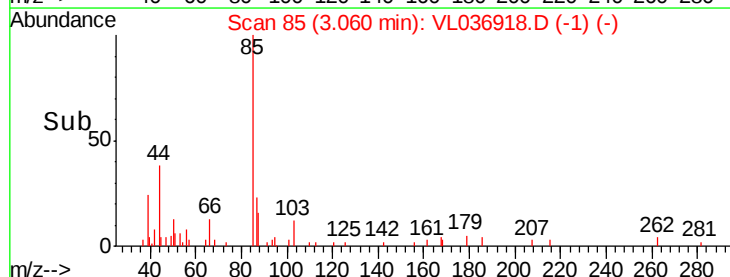
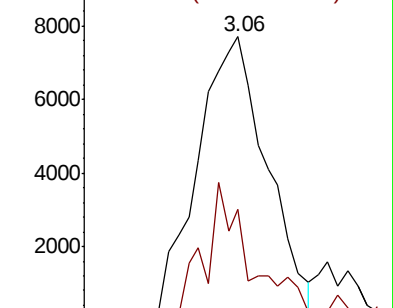
85 100

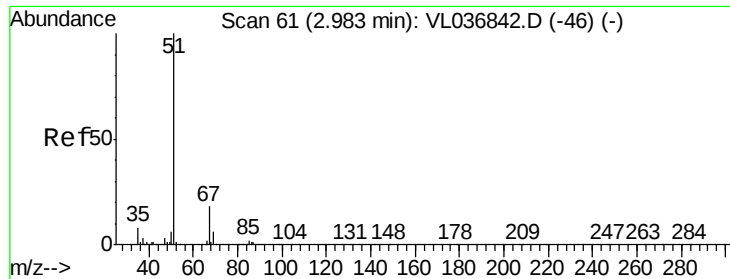
87 40.3 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL036918.D

Acq: 7 May 2021 14:16

Instrument :

MSVOA_L

ClientSampleId :

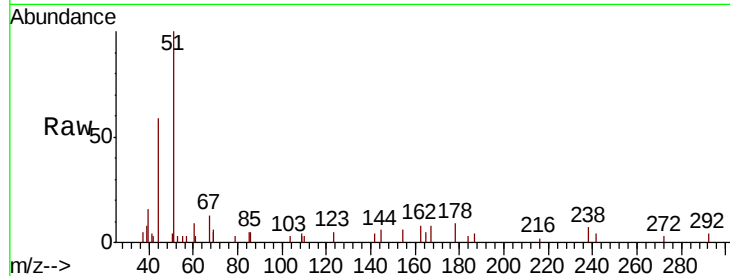
MDL-AIR-03-QT2-2021

Tot Ion: 51 Resp: 12944

Ion Ratio Lower Upper

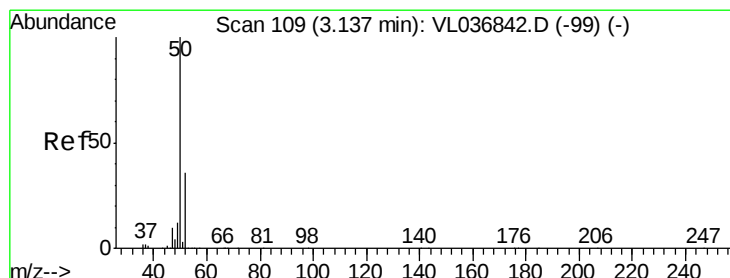
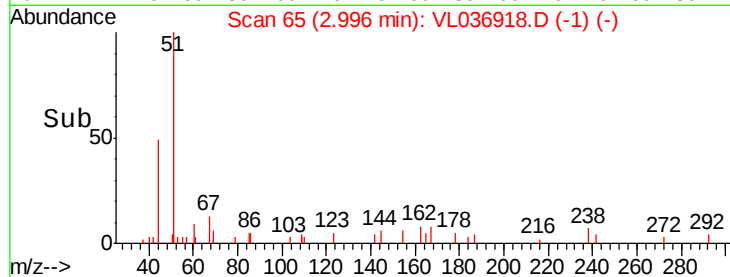
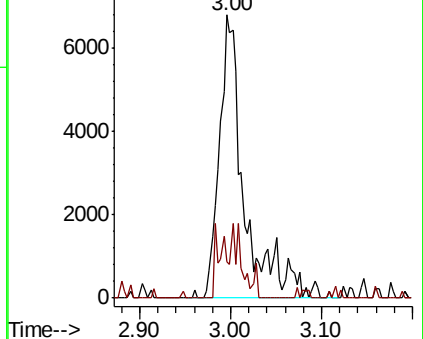
51 100

67 21.3 14.8 22.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.030 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036918.D

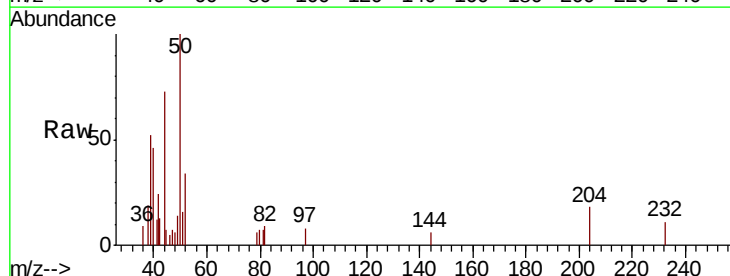
Acq: 7 May 2021 14:16

Tgt Ion: 50 Resp: 2129

Ion Ratio Lower Upper

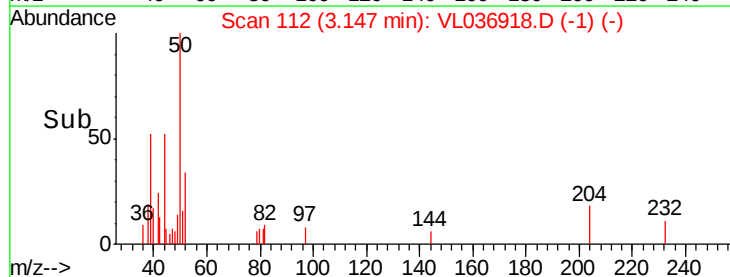
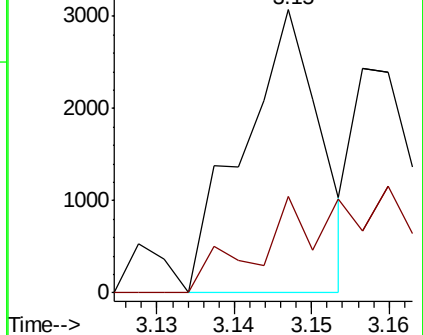
50 100

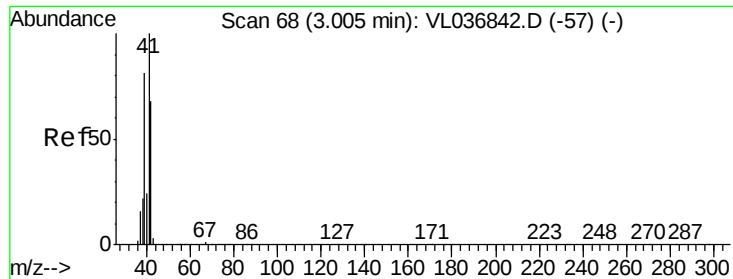
52 34.2 28.5 42.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

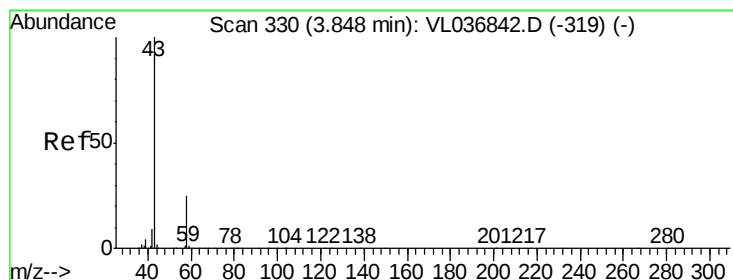
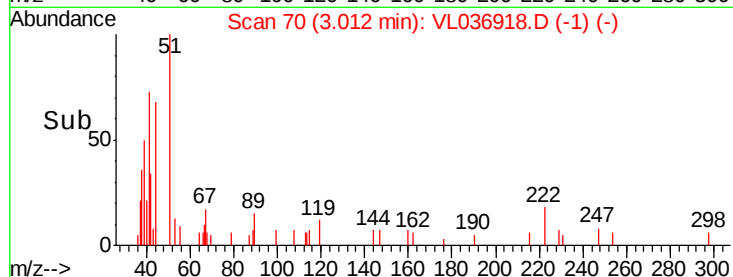
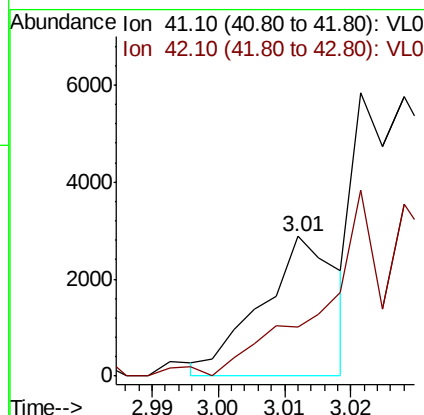
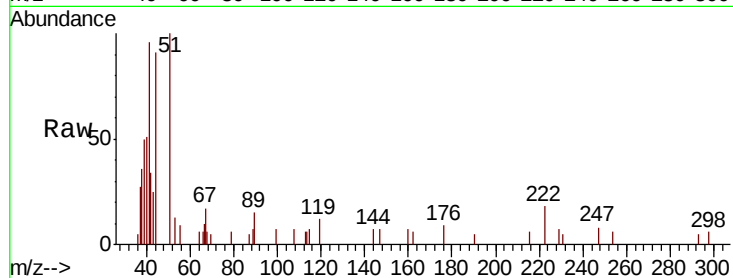




#9
 Propene
 Concen: 0.035 ppbv
 RT: 3.01 min Scan# 70
 Delta R.T. 0.01 min
 Lab File: VL036918.D
 Acq: 7 May 2021 14:16

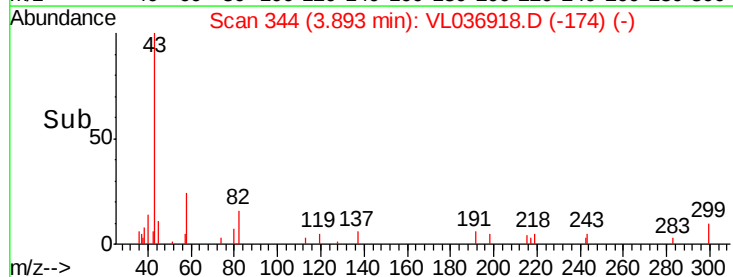
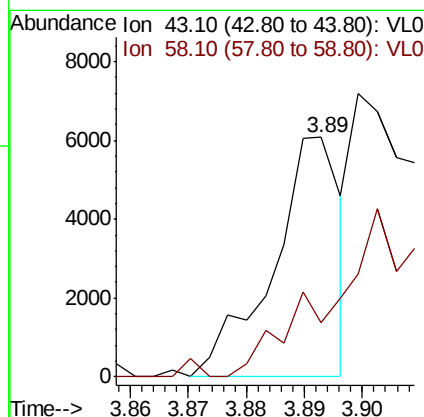
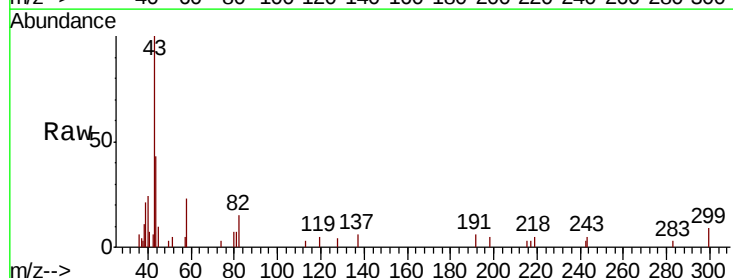
Instrument :
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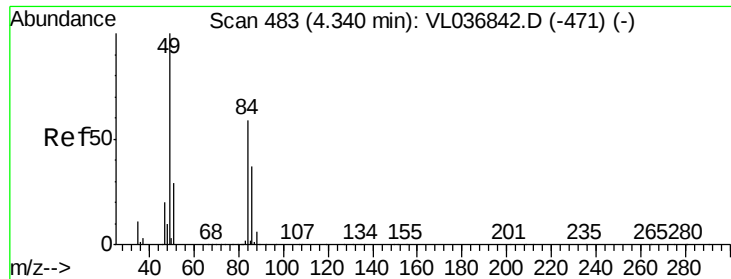
Tot Ion: 41 Resp: 2275
 Ion Ratio Lower Upper
 41 100
 42 0.0 56.0 84.0#



#15
 Acetone
 Concen: 0.044 ppbv
 RT: 3.89 min Scan# 344
 Delta R.T. 0.05 min
 Lab File: VL036918.D
 Acq: 7 May 2021 14:16

Tgt Ion: 43 Resp: 4945
 Ion Ratio Lower Upper
 43 100
 58 0.0 21.7 32.5#

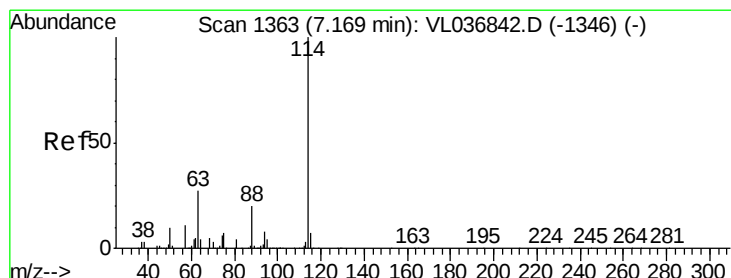
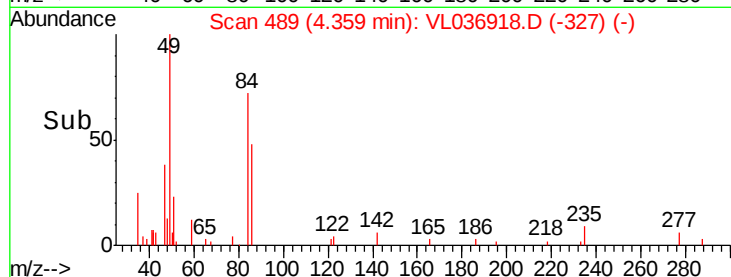
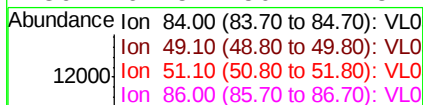
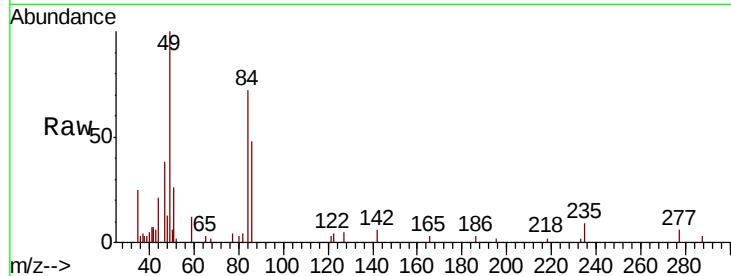




#20
Methylene Chloride
Concen: 0.150 ppbv
RT: 4.36 min Scan# 489
Delta R.T. 0.02 min
Lab File: VL036918.D
Acq: 7 May 2021 14:16

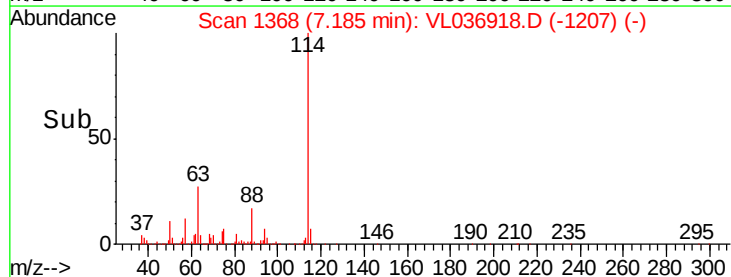
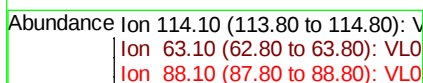
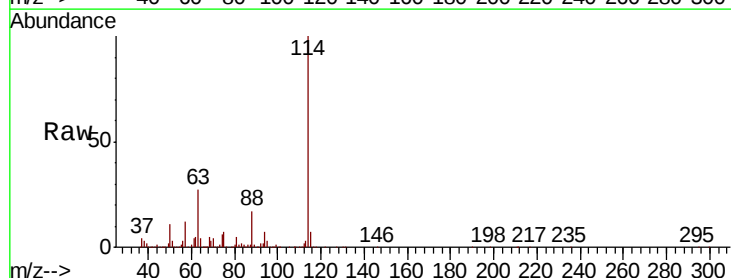
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

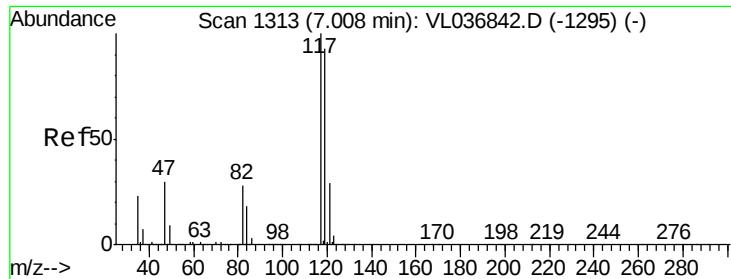
Tot Ion:	84	Resp:	7996
Ion	Ratio	Lower	Upper
84	100		
49	139.7	135.4	203.0
51	36.3	39.3	58.9#
86	67.5	50.2	75.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.02 min
Lab File: VL036918.D
Acq: 7 May 2021 14:16

Tgt Ion:	114	Resp:	2802980
Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.9	32.9
88	18.3	15.1	22.7





#35

Carbon Tetrachloride

Concen: 0.033 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.02 min

Lab File: VL036918.D

Acq: 7 May 2021 14:16

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

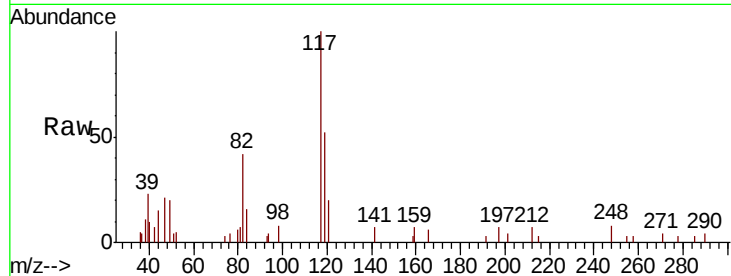
Tot Ion:117 Resp: 6283

Ion Ratio Lower Upper

117 100

119 61.4 74.6 111.8#

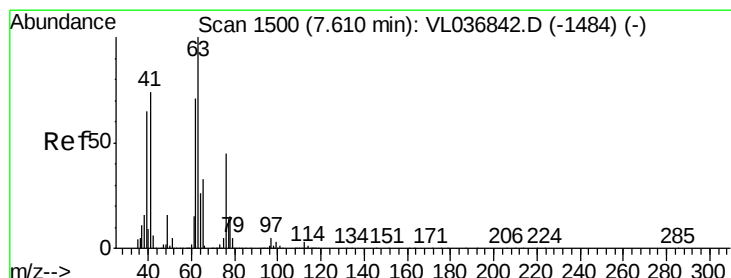
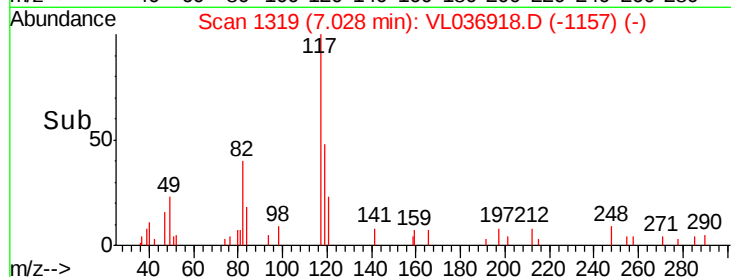
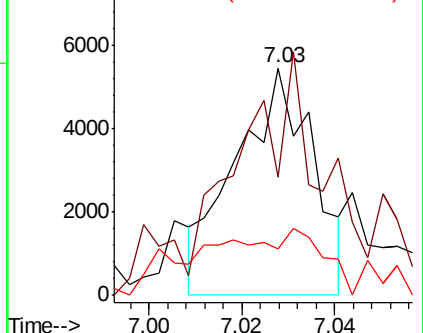
121 9.5 23.3 34.9#



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



#39

1,2-Dichloropropane

Concen: 7.836 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.42 min

Lab File: VL036918.D

Acq: 7 May 2021 14:16

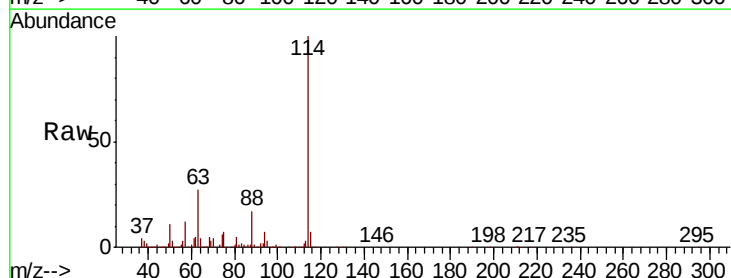
Tgt Ion: 63 Resp: 741423

Ion Ratio Lower Upper

63 100

41 0.3 59.1 88.7#

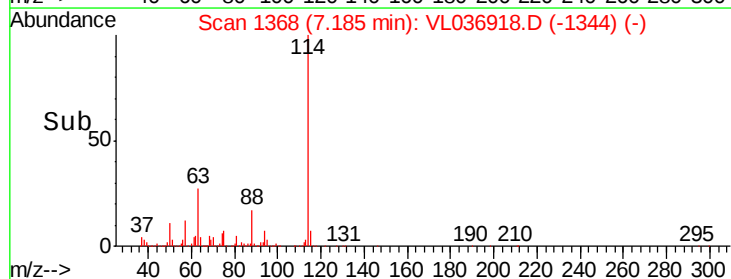
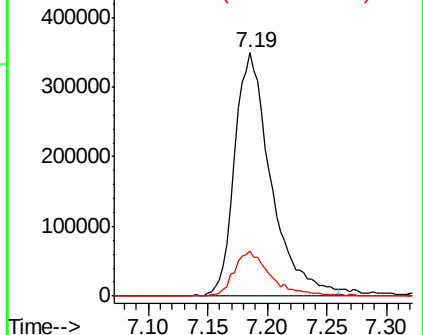
62 18.3 56.9 85.3#

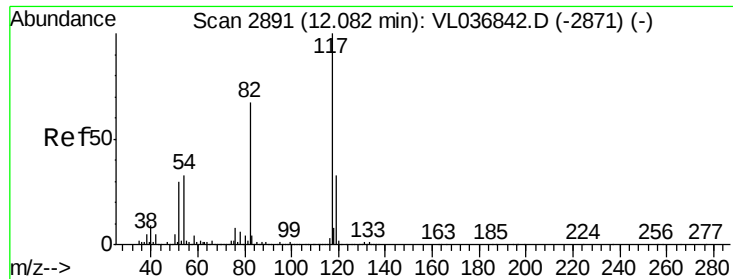


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.01 min

Lab File: VL036918.D

Acq: 7 May 2021 14:16

Instrument :

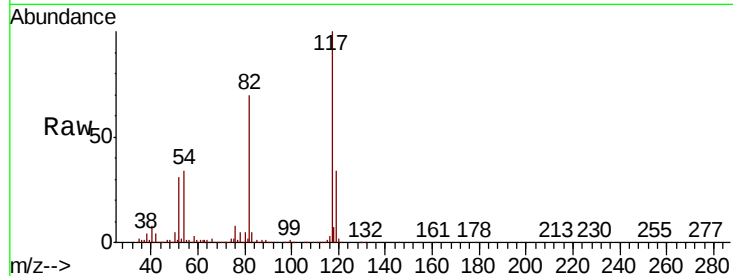
MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:117 Resp: 2390687

Ion	Ratio	Lower	Upper
117	100		
82	71.9	53.5	80.3
119	33.4	25.6	38.4

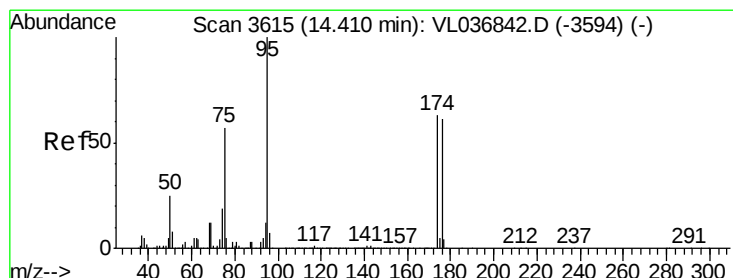
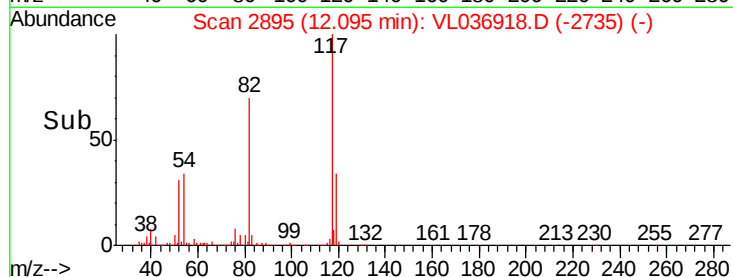
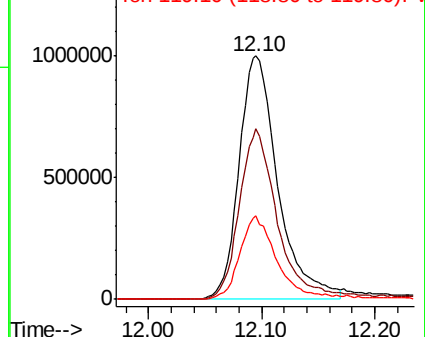


Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.769 ppbv

RT: 14.42 min Scan# 3619

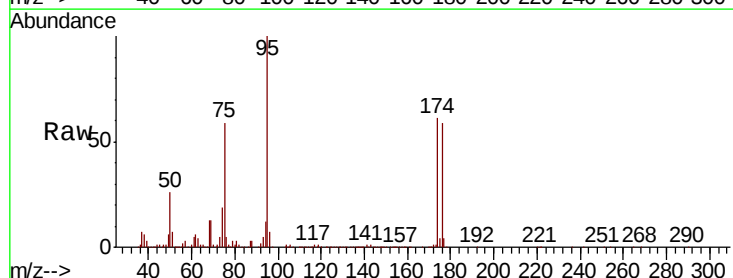
Delta R.T. 0.01 min

Lab File: VL036918.D

Acq: 7 May 2021 14:16

Tgt Ion: 95 Resp: 1874697

Ion	Ratio	Lower	Upper
95	100		
174	69.2	52.2	78.2
175	4.8	4.0	6.0



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

