

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032359.D
 Acq On : 15 Aug 2018 19:50
 Operator : SY/AP
 Sample : J4266-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1000

Quant Time: Aug 16 22:12:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2199833	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	4295157	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	4115190	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	3344821	10.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

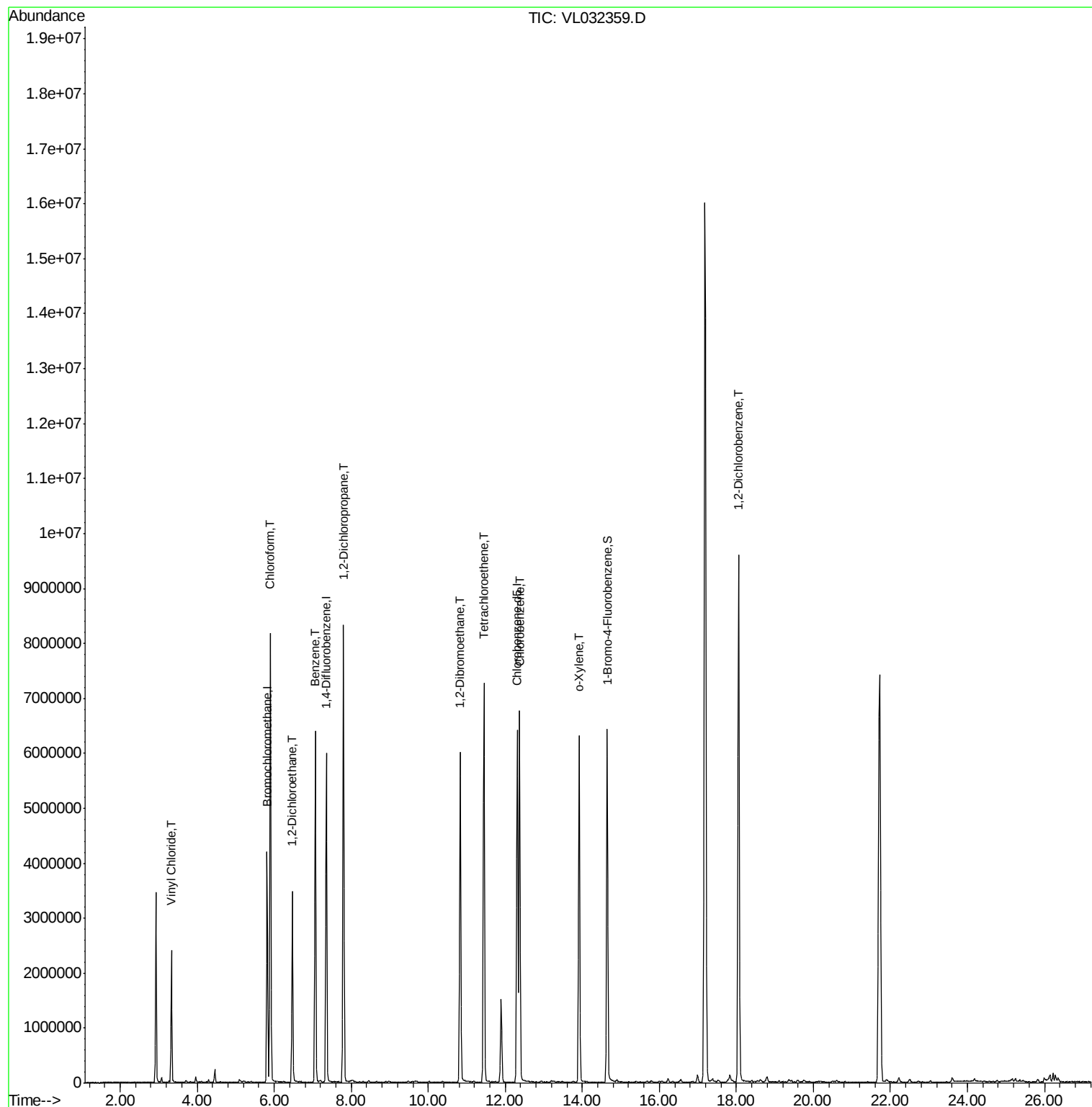
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.33	62	2095104	18.12	ppbv	97
29) Chloroform	5.90	83	5947398	20.32	ppbv	98
36) Benzene	7.06	78	5373190	14.76	ppbv	99
37) 1,2-Dichloroethane	6.47	62	2869868	12.99	ppbv	99
39) 1,2-Dichloropropane	7.80	63	3351789	22.04	ppbv	99
52) Tetrachloroethene	11.45	164	1816196	16.91	ppbv	97
54) 1,2-Dibromoethane	10.83	107	5418141	25.20	ppbv	100
57) Chlorobenzene	12.37	112	4215695	13.61	ppbv	98
60) o-Xylene	13.92	91	4960364	12.00	ppbv	99
77) 1,2-Dichlorobenzene	18.06	146	5128506	18.93	ppbv	99

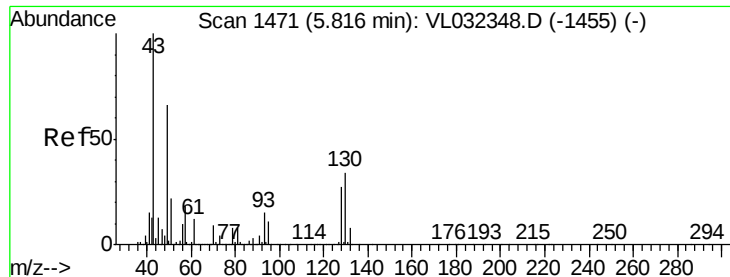
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

Instrument :

MSVOA_L

ClientSampleId :

1000

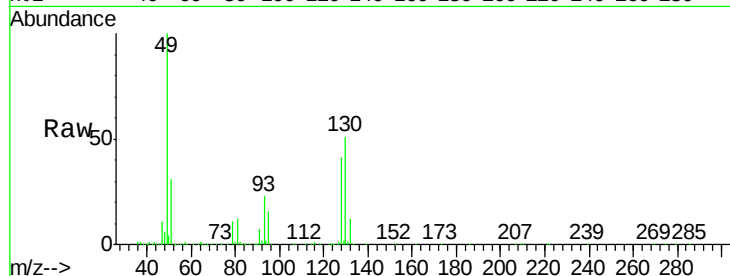
Tot Ion: 49 Resp: 2199833

Ion Ratio Lower Upper

49 100

128 40.1 20.5 61.6

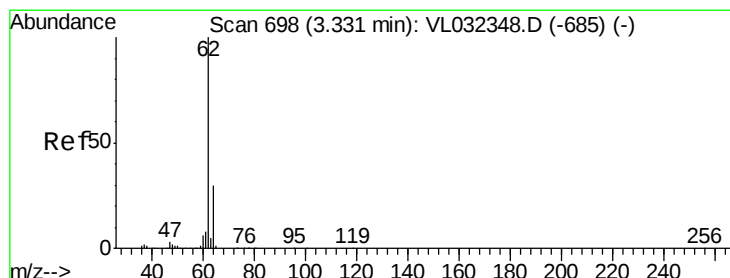
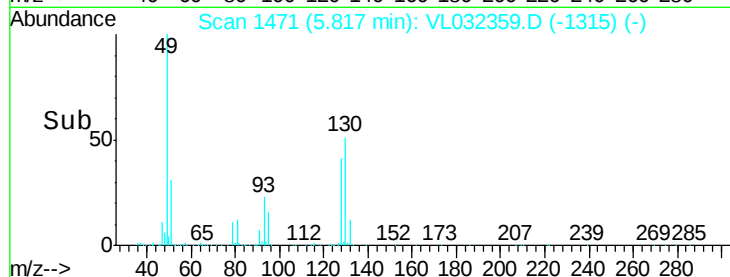
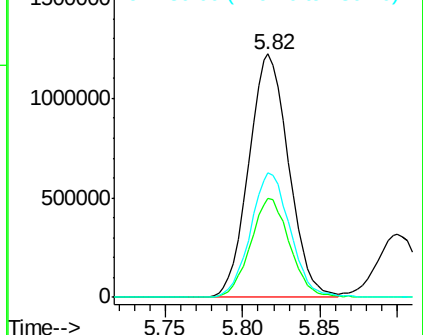
130 51.3 26.2 78.5



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



#5

Vinyl Chloride

Concen: 18.12 ppbv

RT: 3.33 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL032359.D

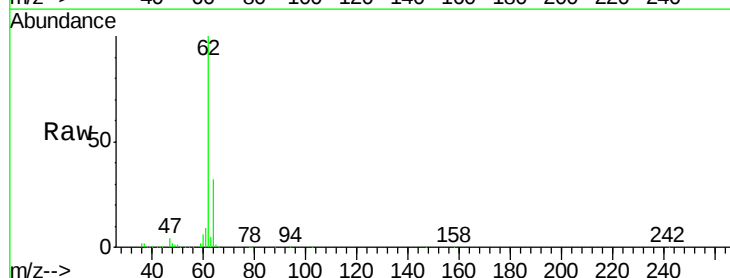
Acq: 15 Aug 2018 19:50

Tgt Ion: 62 Resp: 2095104

Ion Ratio Lower Upper

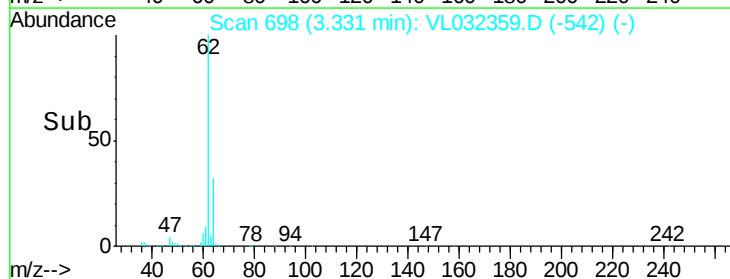
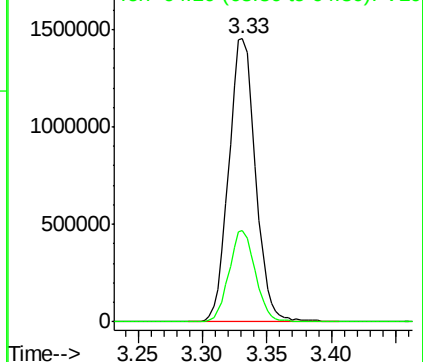
62 100

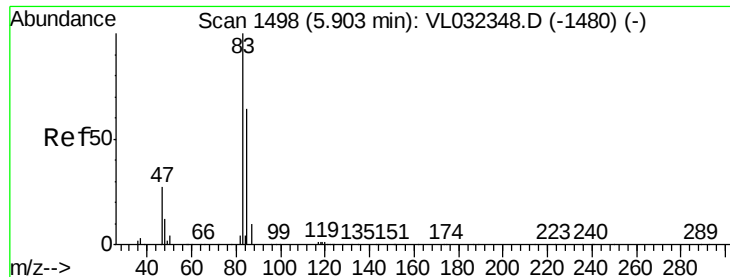
64 32.1 24.2 36.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#29

Chloroform

Concen: 20.32 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

Instrument :

MSVOA_L

ClientSampleId :

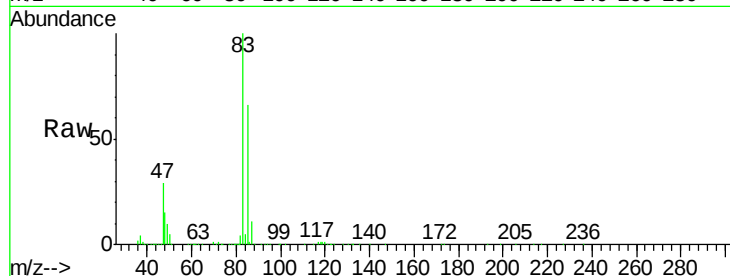
1000

Tot Ion: 83 Resp: 5947398

Ion Ratio Lower Upper

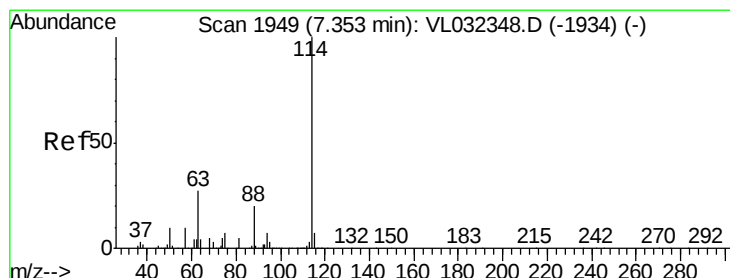
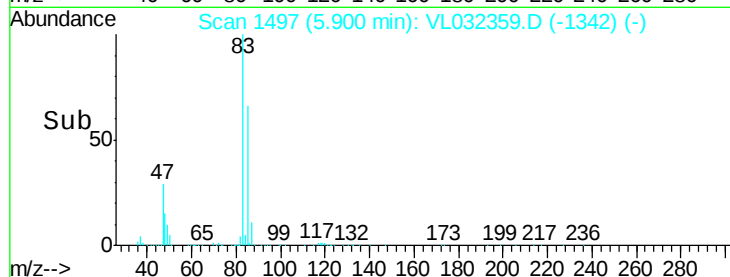
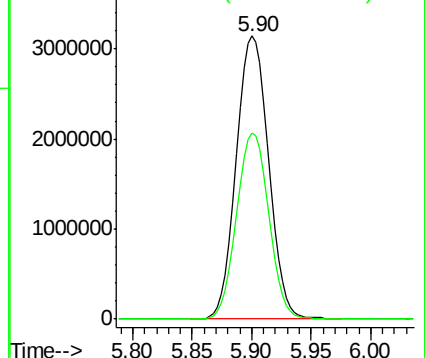
83 100

85 65.9 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.35 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

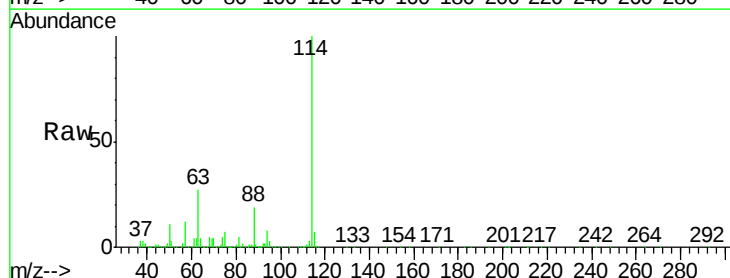
Tgt Ion: 114 Resp: 4295157

Ion Ratio Lower Upper

114 100

63 27.6 22.0 33.0

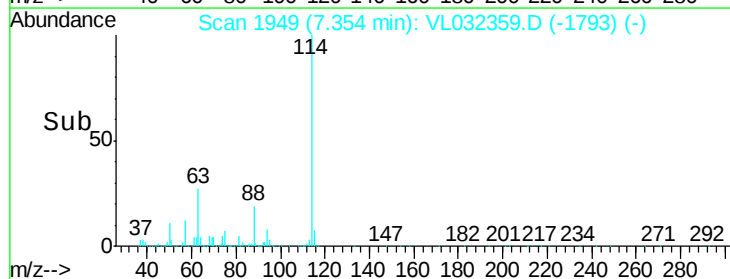
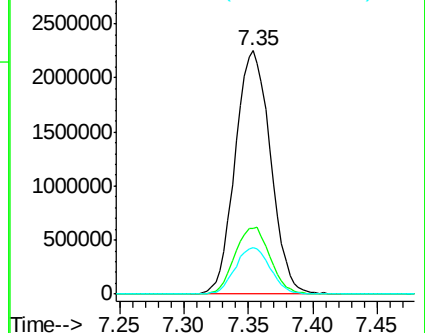
88 19.0 15.3 22.9

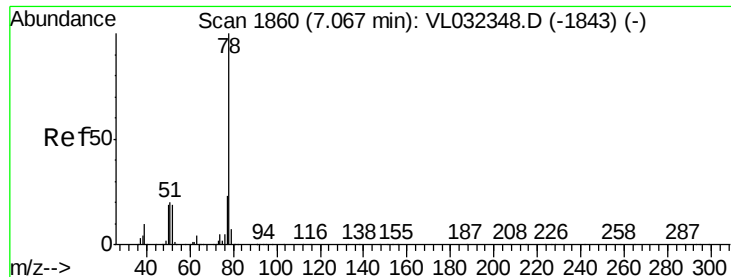


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#36

Benzene

Concen: 14.76 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

Instrument :

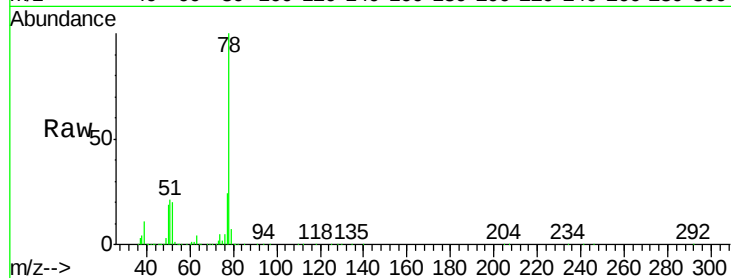
MSVOA_L

ClientSampleId :

1000

Tot Ion: 78 Resp: 5373190

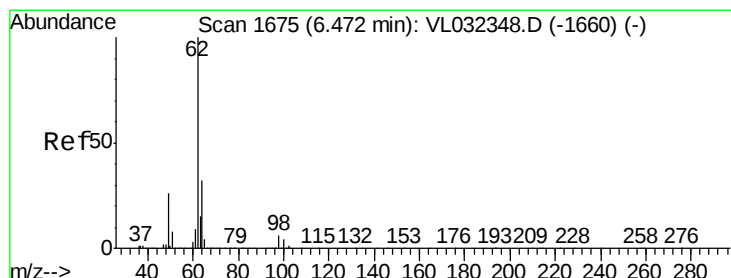
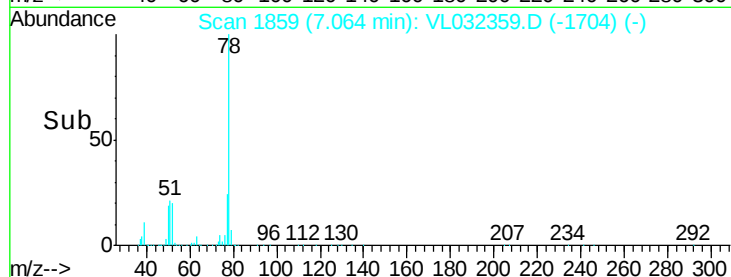
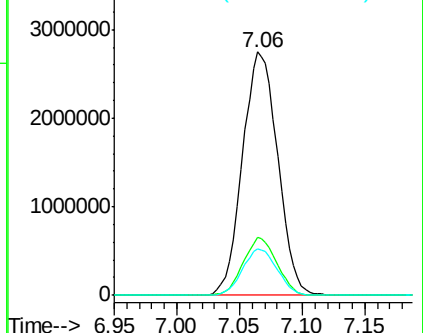
Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.0	27.0
50	18.9	15.1	22.7



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 12.99 ppbv

RT: 6.47 min Scan# 1674

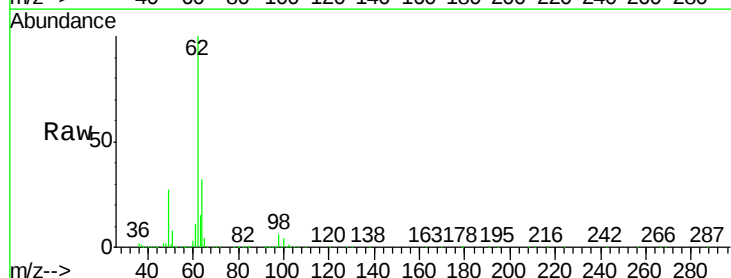
Delta R.T. -0.00 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

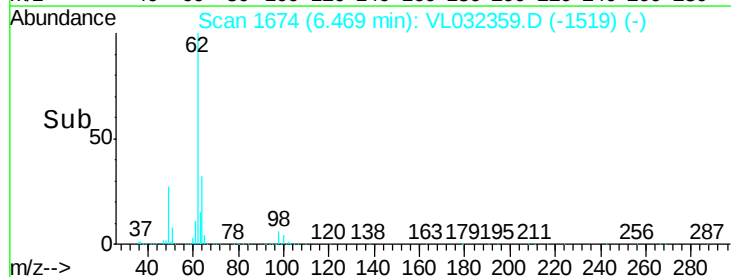
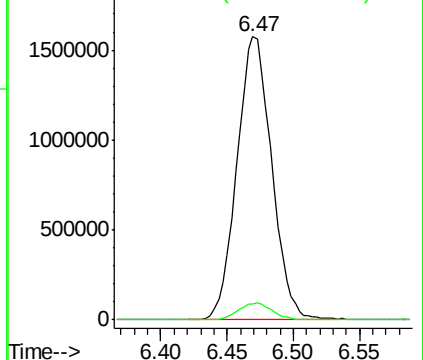
Tgt Ion: 62 Resp: 2869868

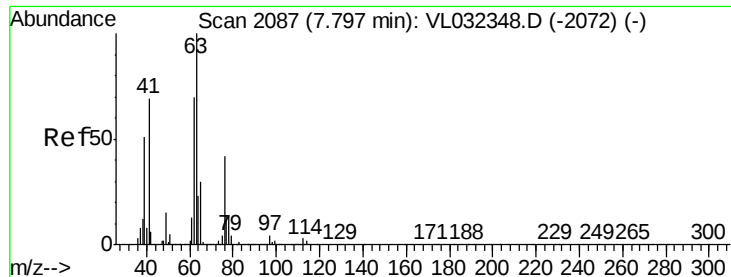
Ion	Ratio	Lower	Upper
62	100		
98	6.1	5.0	7.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#39

1,2-Dichloropropane

Concen: 22.04 ppbv

RT: 7.80 min Scan# 2088

Delta R.T. 0.00 min

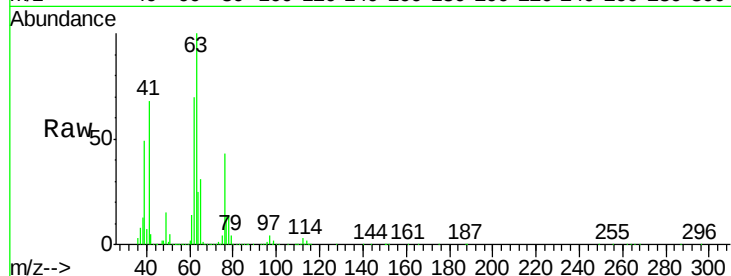
Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

Instrument :
MSVOA_L
ClientSampleId :
1000

Tot Ion: 63 Resp: 3351789

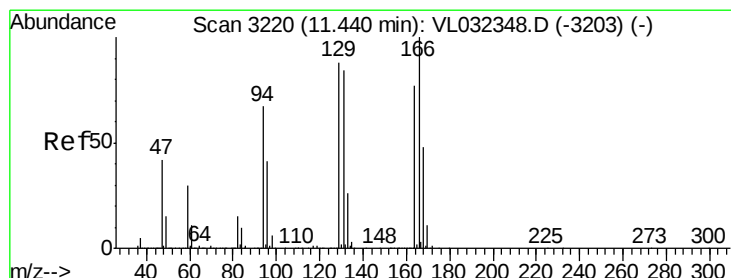
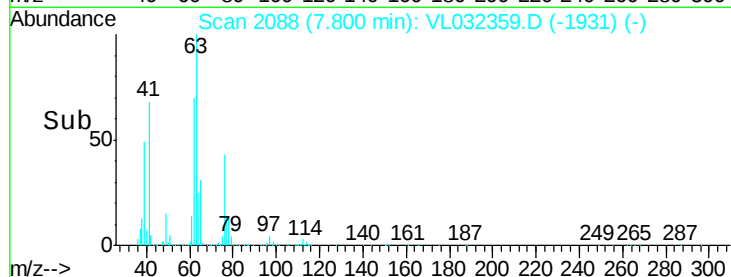
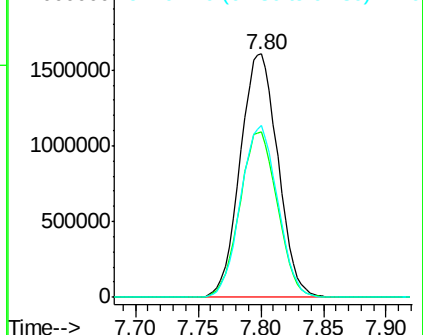
Ion	Ratio	Lower	Upper
63	100		
41	67.9	55.5	83.3
62	70.5	56.3	84.5



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



#52

Tetrachloroethene

Concen: 16.91 ppbv

RT: 11.45 min Scan# 3222

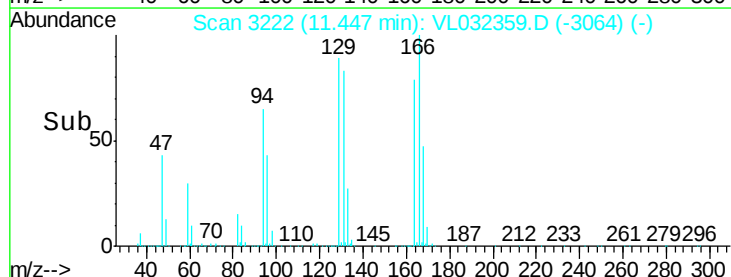
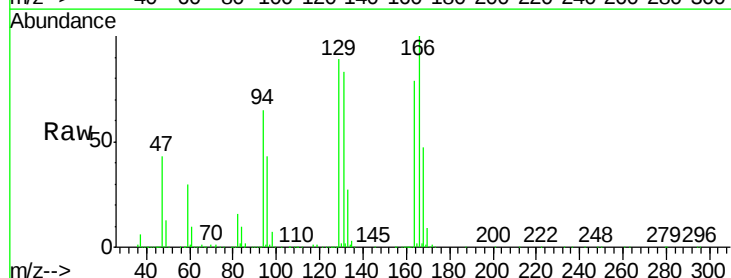
Delta R.T. 0.01 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

Tgt Ion: 164 Resp: 1816196

Ion	Ratio	Lower	Upper
164	100		
166	125.7	103.5	155.3
129	111.7	90.9	136.3
131	104.0	86.7	130.1

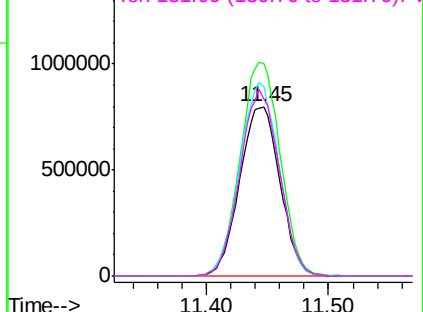


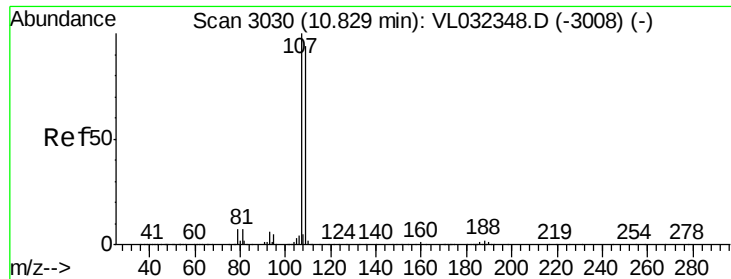
Abundance Ion 163.90 (163.60 to 164.60): V

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





#54

1,2-Dibromoethane

Concen: 25.20 ppbv

RT: 10.83 min Scan# 3030

Delta R.T. 0.00 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

Instrument :

MSVOA_L

ClientSampled :

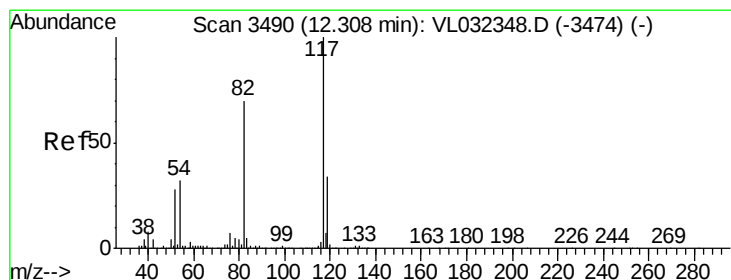
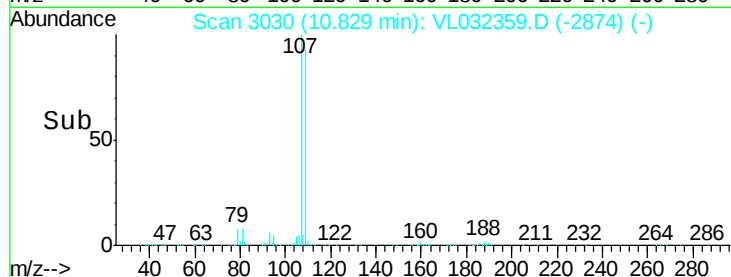
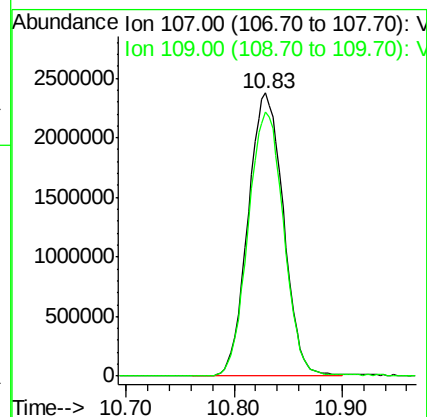
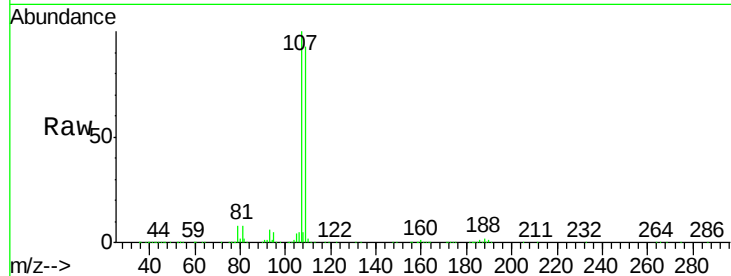
1000

Tot Ion:107 Resp: 5418141

Ion Ratio Lower Upper

107 100

109 93.4 74.9 112.3



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.31 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VL032359.D

Acq: 15 Aug 2018 19:50

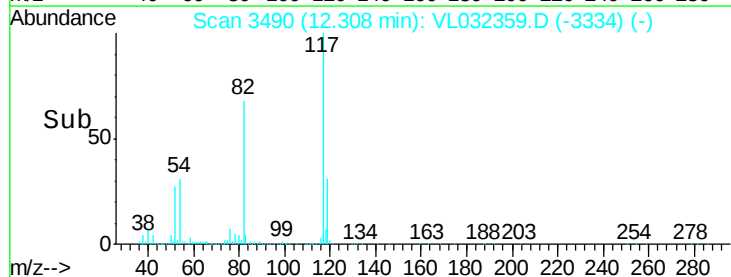
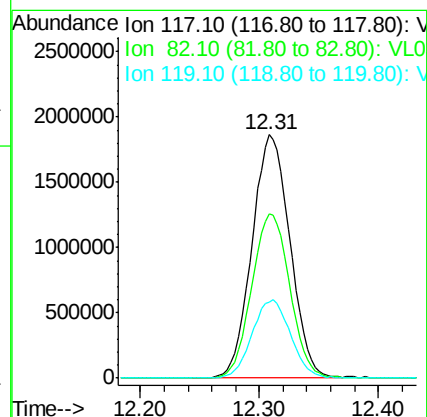
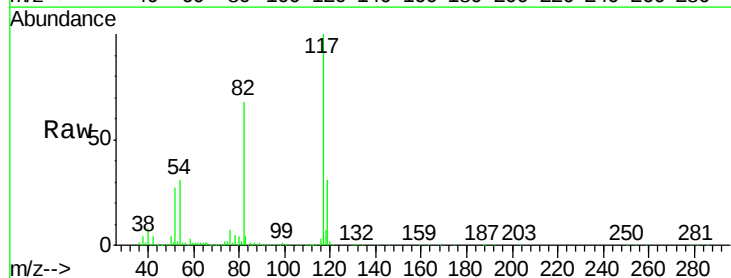
Tgt Ion:117 Resp: 4115190

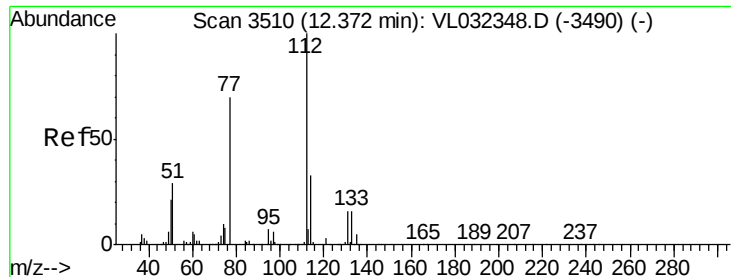
Ion Ratio Lower Upper

117 100

82 67.9 55.1 82.7

119 32.6 46.0 69.0#

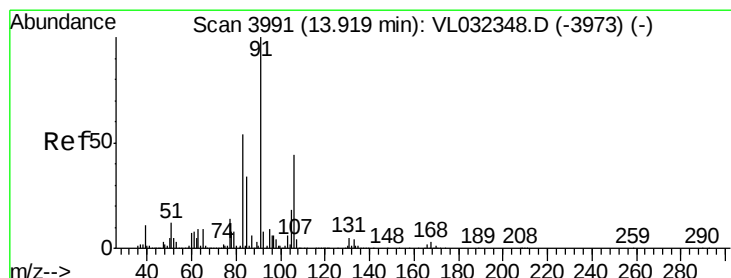
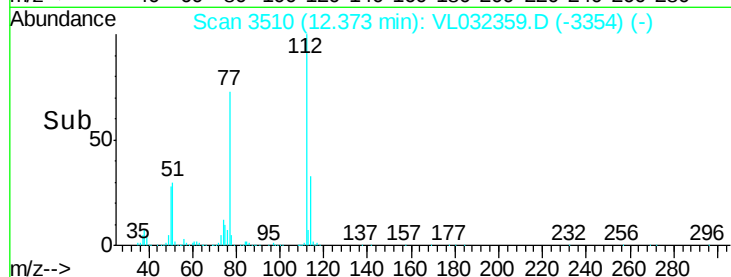
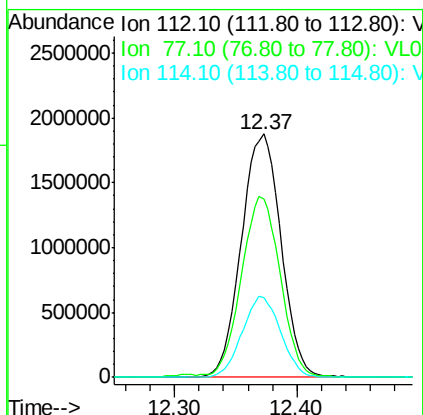
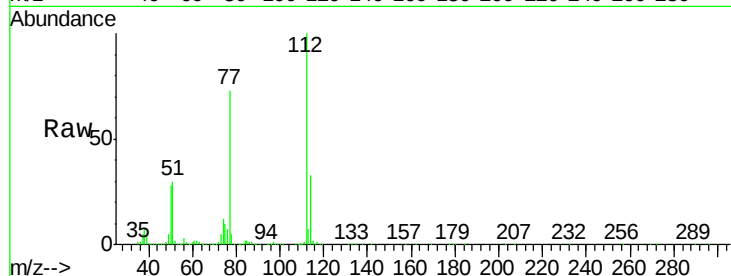




#57
Chlorobenzene
Concen: 13.61 ppbv
RT: 12.37 min Scan# 3510
Delta R.T. 0.00 min
Lab File: VL032359.D
Acq: 15 Aug 2018 19:50

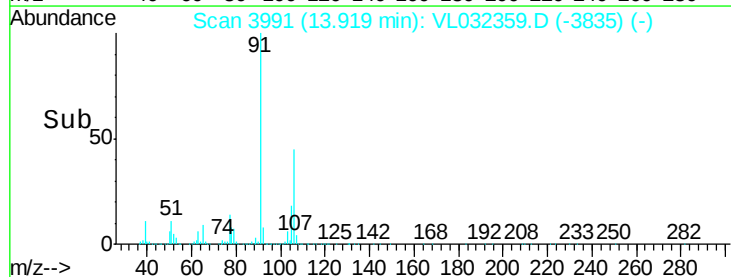
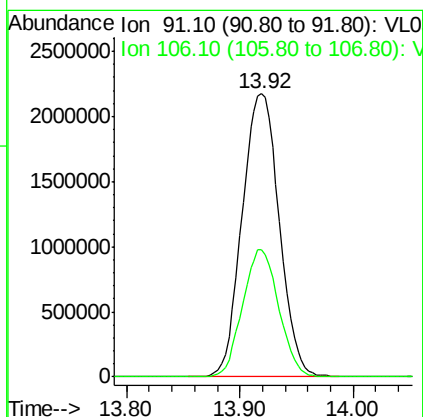
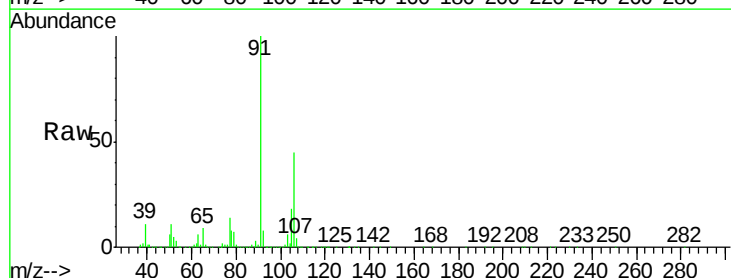
Instrument :
MSVOA_L
ClientSampleId :
1000

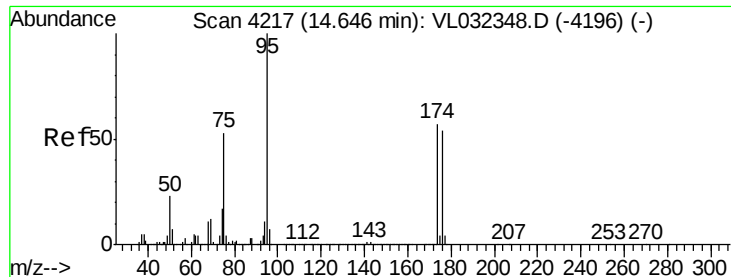
Tot Ion:112 Resp: 4215695
Ion Ratio Lower Upper
112 100
77 72.8 56.6 84.8
114 32.5 29.4 36.0



#60
o-Xylene
Concen: 12.00 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. 0.00 min
Lab File: VL032359.D
Acq: 15 Aug 2018 19:50

Tgt Ion: 91 Resp: 4960364
Ion Ratio Lower Upper
91 100
106 44.0 22.3 66.8

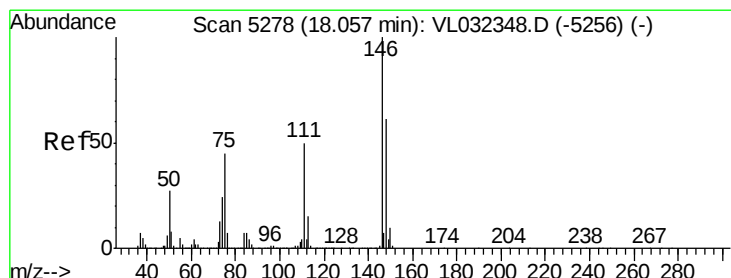
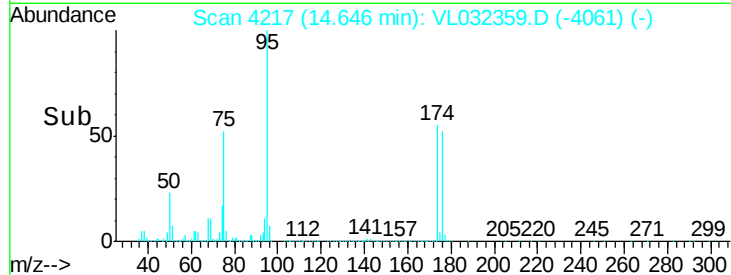
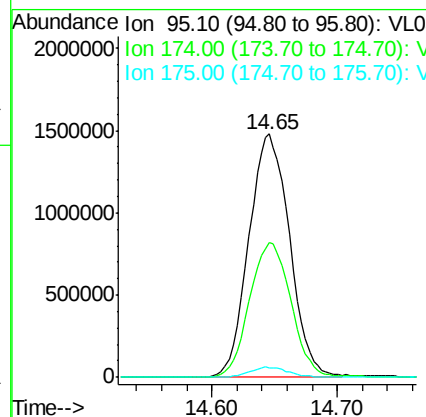
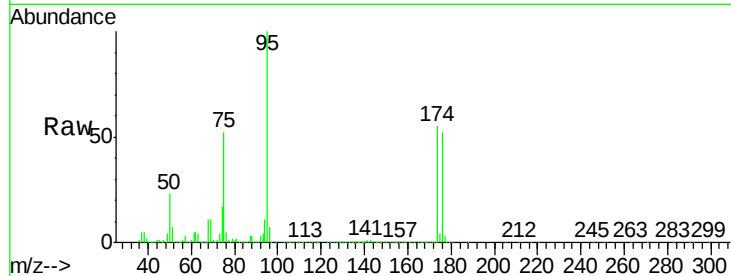




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.65 ppbv
 RT: 14.65 min Scan# 4217
 Delta R.T. 0.00 min
 Lab File: VL032359.D
 Acq: 15 Aug 2018 19:50

Instrument :
 MSVOA_L
 ClientSampleId :
 1000

Tot Ion: 95 Resp: 3344821
 Ion Ratio Lower Upper
 95 100
 174 57.1 46.2 69.4
 175 4.1 3.4 5.0



#77
 1,2-Dichlorobenzene
 Concen: 18.93 ppbv
 RT: 18.06 min Scan# 5278
 Delta R.T. 0.00 min
 Lab File: VL032359.D
 Acq: 15 Aug 2018 19:50

Tgt Ion: 146 Resp: 5128506
 Ion Ratio Lower Upper
 146 100
 111 51.4 25.2 75.6
 148 64.3 31.8 95.4

