

Data File : VL034053.D
Acq On : 30 Jul 2019 5:18
Operator : SY/AP
Sample : VSTDICC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 30 05:44:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 05:02:48 2019
QLast Update : Tue Jul 30 05:02:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1169815	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	3936034	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2719528	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2222322	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

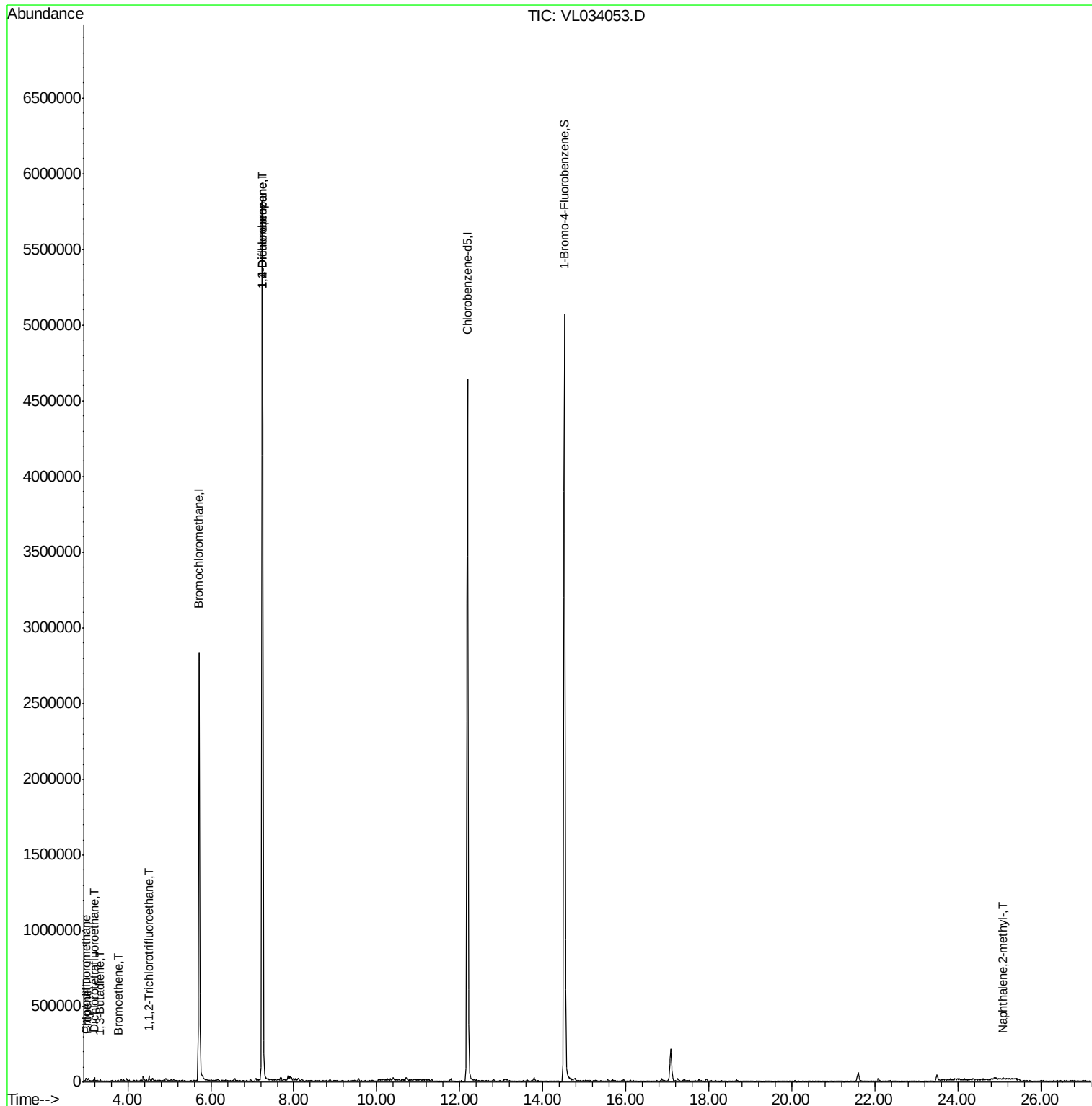
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	6995	0.048	ppbv	99
8) Dichlorotetrafluoroethane	3.20	85	10620	0.044	ppbv	91
9) Propene	3.01	41	2099	0.039	ppbv #	62
12) 1,1,2-Trichlorotrifluoroet	4.52	101	6875	0.036	ppbv	85
14) Bromoethene	3.76	108	2648	0.036	ppbv #	82
16) 1,3-Butadiene	3.34	39	2657	0.036	ppbv	95
39) 1,2-Dichloropropane	7.24	63	980446	9.083	ppbv #	25
80) Naphthalene,2-methyl-	25.09	142	3357	0.030	ppbv	84

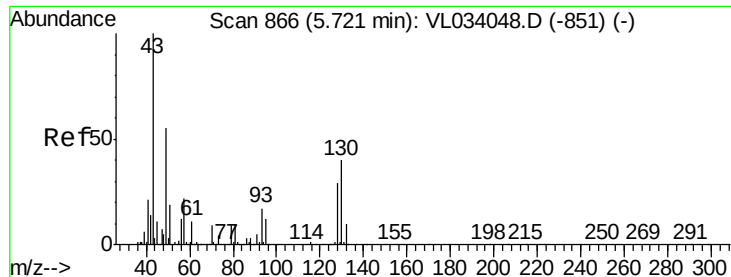
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 30 05:02:48 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

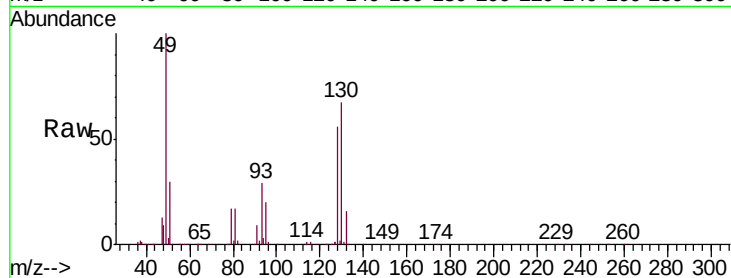
Tgt Ion: 49 Resp: 1169815

Ion Ratio Lower Upper

49 100

128 57.7 27.0 81.0

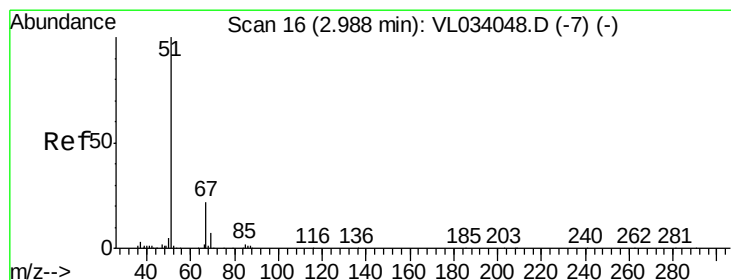
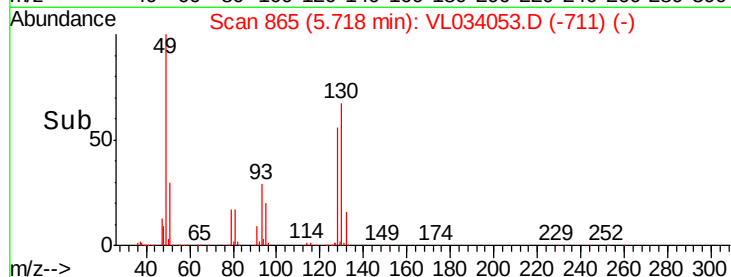
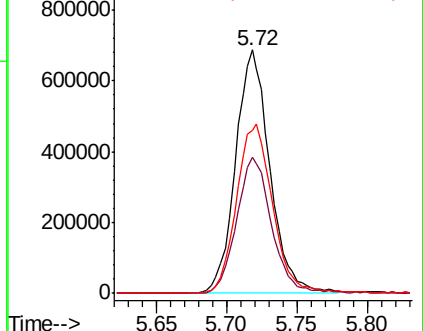
130 74.0 35.0 105.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.048 ppbv

RT: 2.99 min Scan# 17

Delta R.T. 0.00 min

Lab File: VL034053.D

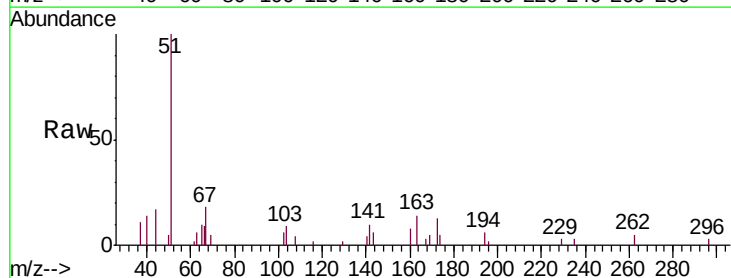
Acq: 30 Jul 2019 5:18

Tgt Ion: 51 Resp: 6995

Ion Ratio Lower Upper

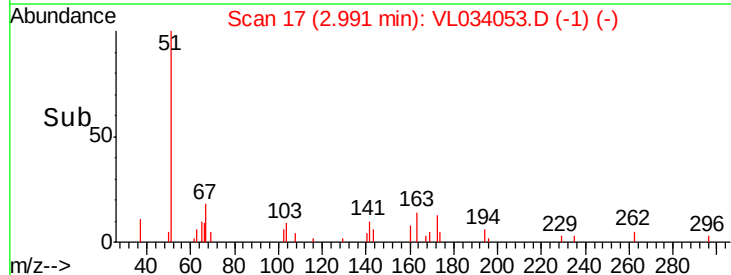
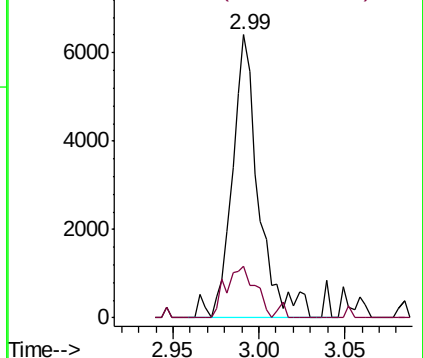
51 100

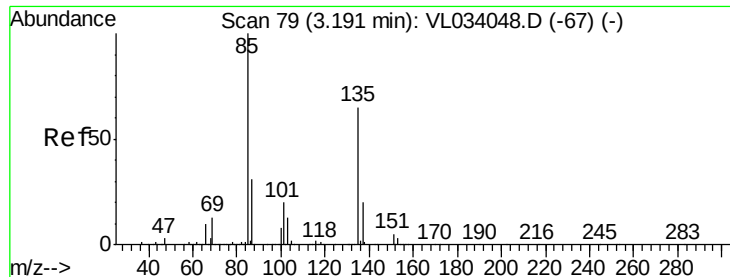
67 21.4 17.4 26.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.044 ppbv

RT: 3.20 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

ClientSampleId :

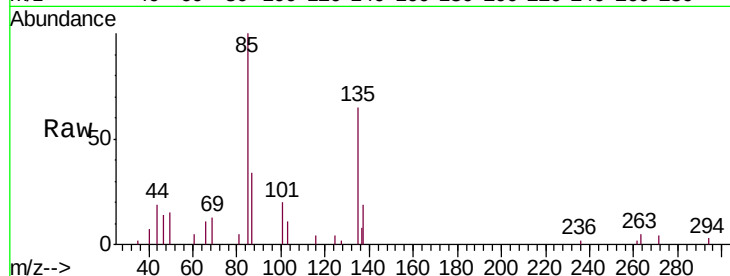
VSTDIC0.03

Tgt Ion: 85 Resp: 10620

Ion Ratio Lower Upper

85 100

135 60.0 54.1 81.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

3.20

8000

6000

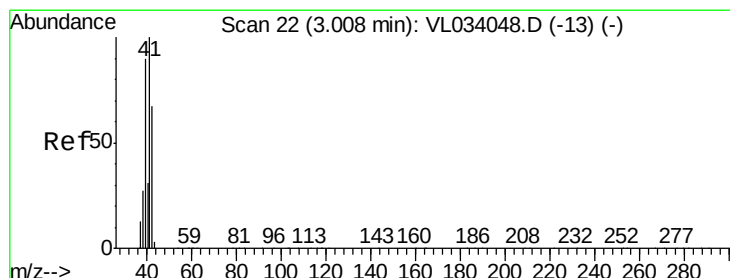
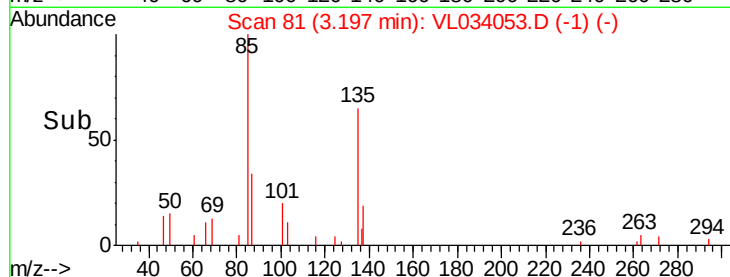
4000

2000

0

Time-->

3.16 3.18 3.20 3.22



#9

Propene

Concen: 0.039 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.01 min

Lab File: VL034053.D

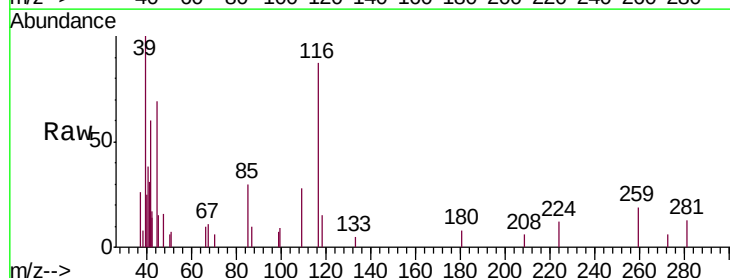
Acq: 30 Jul 2019 5:18

Tgt Ion: 41 Resp: 2099

Ion Ratio Lower Upper

41 100

42 100.3 55.4 83.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

3000

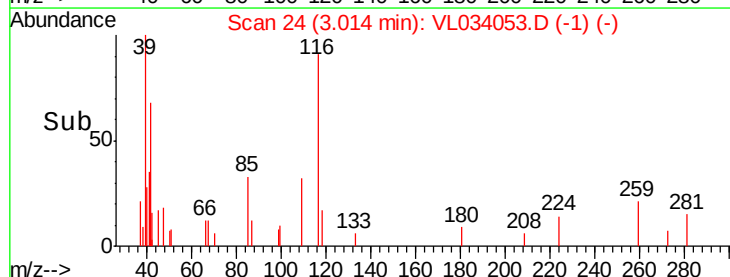
2000

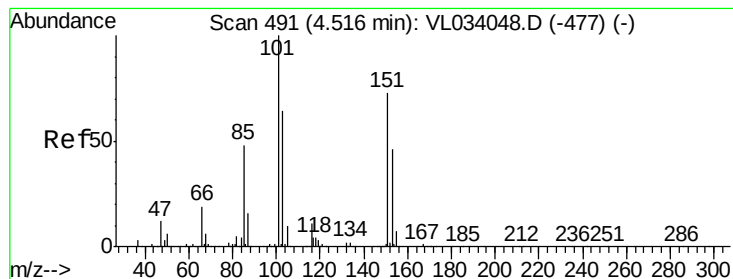
1000

0

Time-->

2.99 3.00 3.01 3.02





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

ClientSampleId :

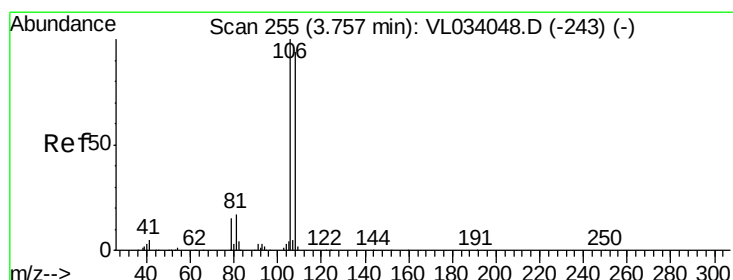
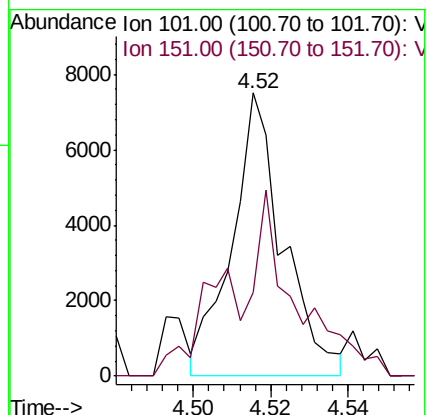
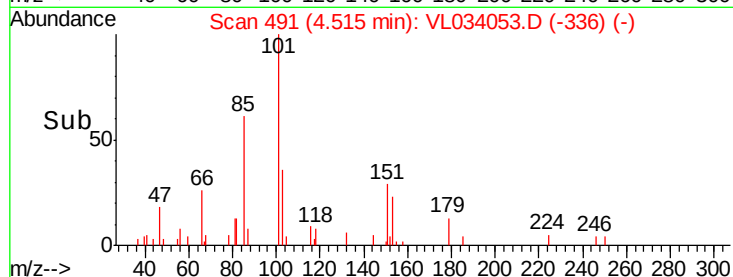
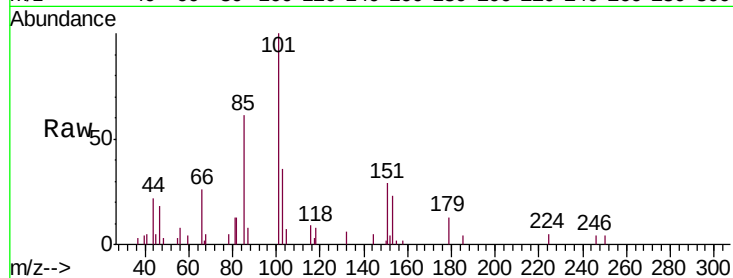
VSTDIC0.03

Tgt Ion:101 Resp: 6875

Ion Ratio Lower Upper

101 100

151 83.9 57.3 85.9



#14

Bromoethene

Concen: 0.036 ppbv

RT: 3.76 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

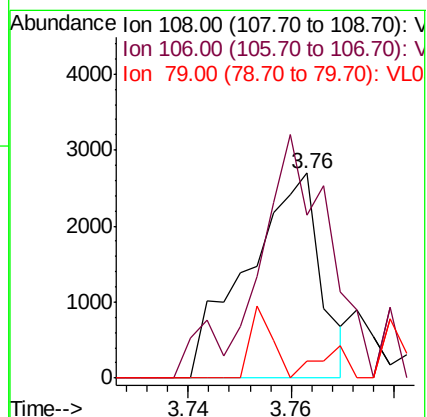
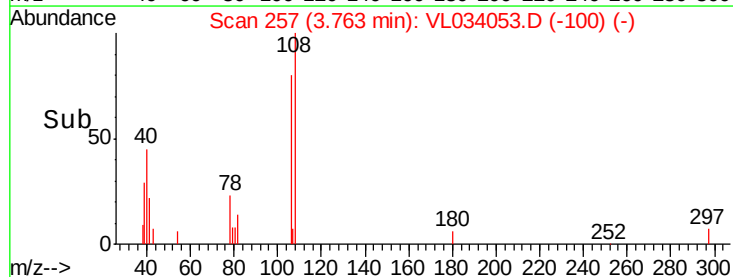
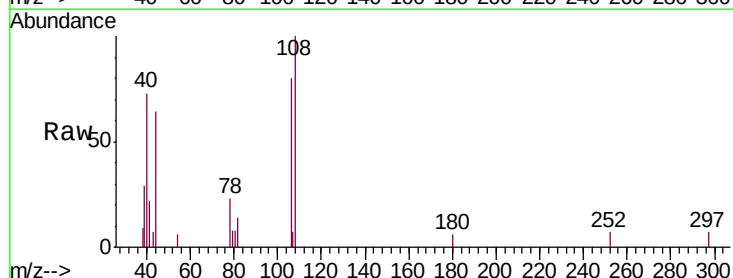
Tgt Ion:108 Resp: 2648

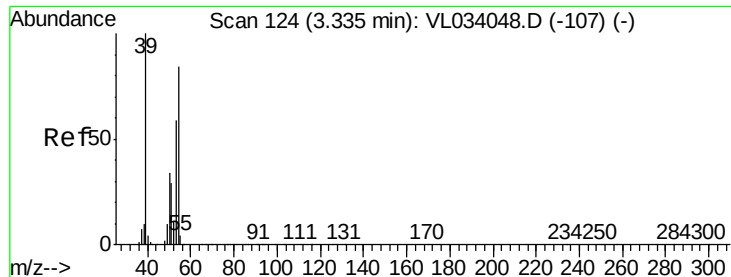
Ion Ratio Lower Upper

108 100

106 126.7 86.2 129.2

79 24.9 13.7 20.5#





#16

1,3-Butadiene

Concen: 0.036 ppbv

RT: 3.34 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

ClientSampleId :

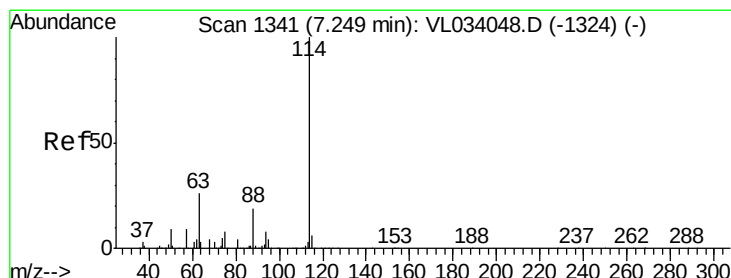
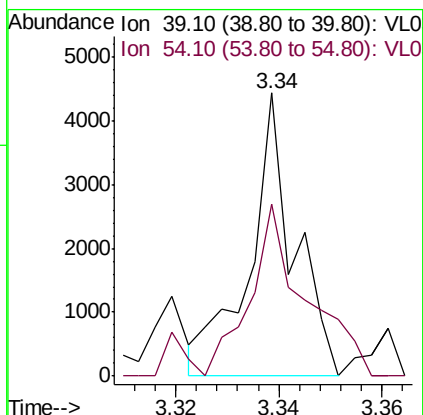
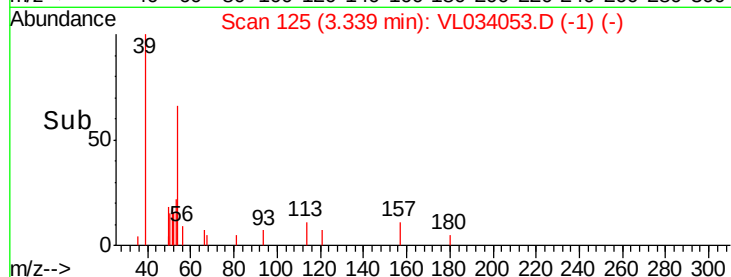
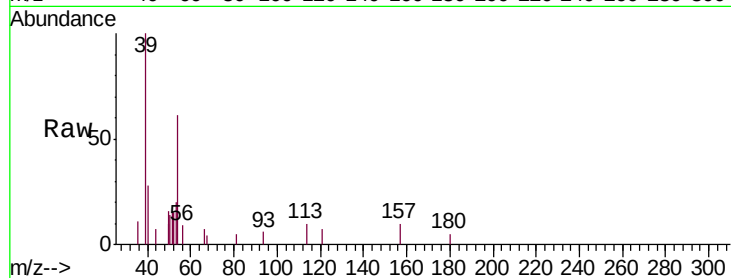
VSTDIC0.03

Tgt Ion: 39 Resp: 2657

Ion Ratio Lower Upper

39 100

54 90.6 68.9 103.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

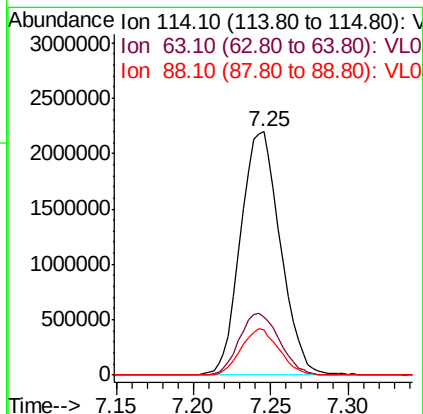
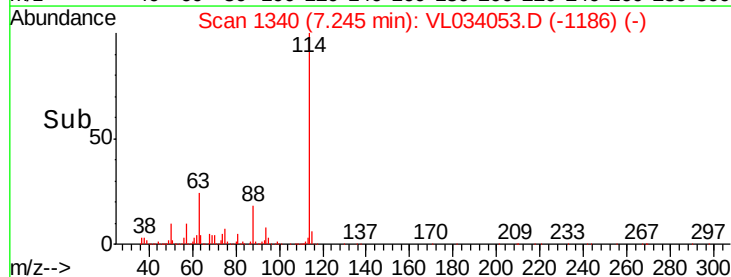
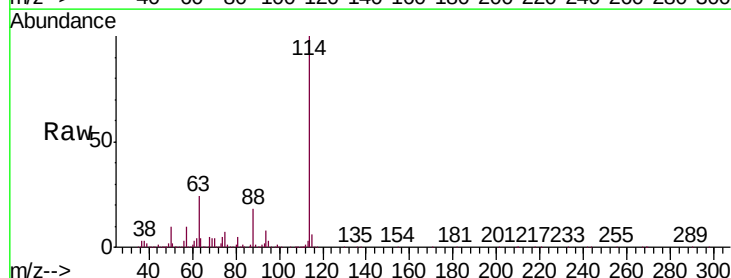
Tgt Ion: 114 Resp: 3936034

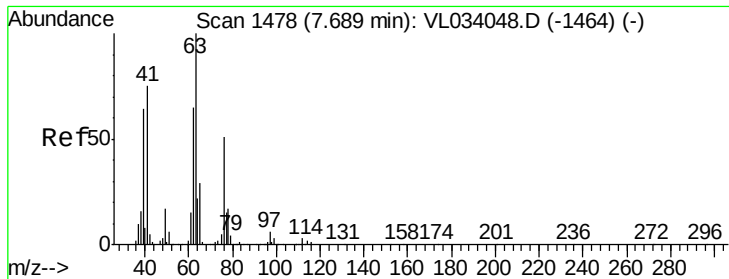
Ion Ratio Lower Upper

114 100

63 25.8 21.0 31.6

88 18.3 14.7 22.1





#39

1,2-Dichloropropane

Concen: 9.083 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.45 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

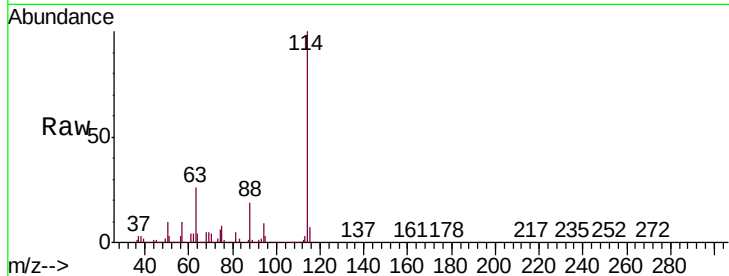
Tgt Ion: 63 Resp: 980446

Ion Ratio Lower Upper

63 100

41 0.1 59.8 89.8#

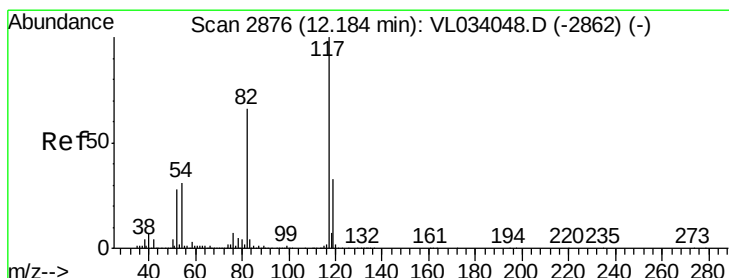
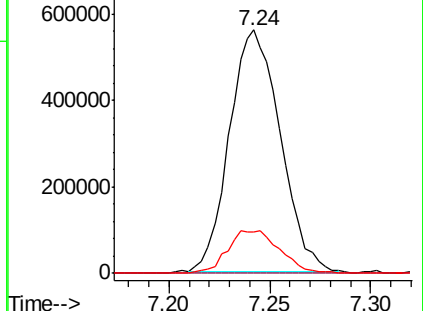
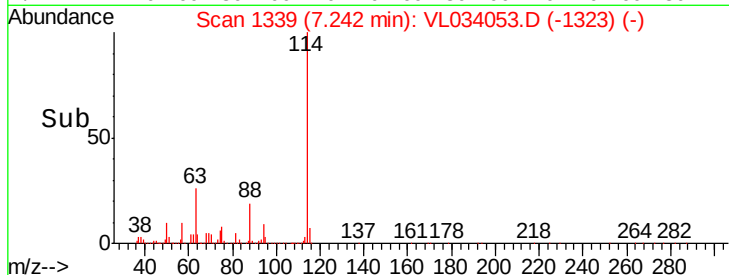
62 17.2 52.2 78.2#



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: 12.18 min Scan# 2876

Delta R.T. -0.00 min

Lab File: VL034053.D

Acq: 30 Jul 2019 5:18

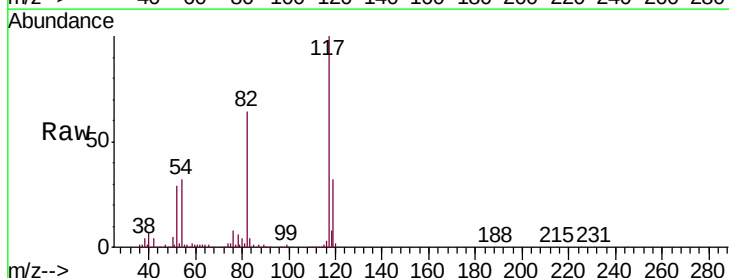
Tgt Ion: 117 Resp: 2719528

Ion Ratio Lower Upper

117 100

82 66.3 49.8 74.8

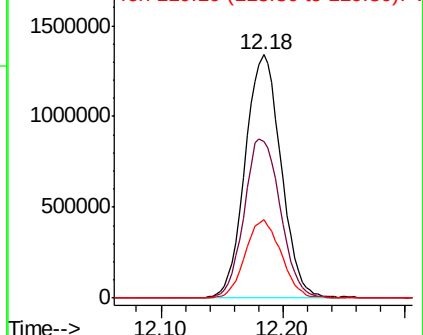
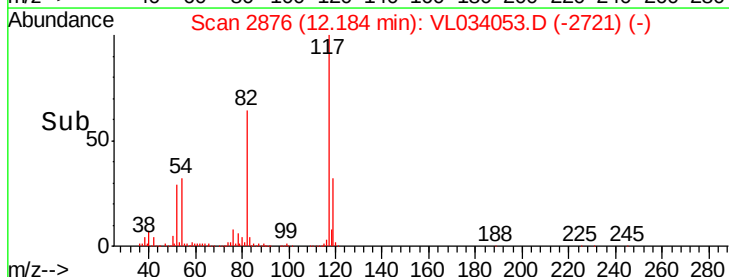
119 32.4 43.0 64.6#

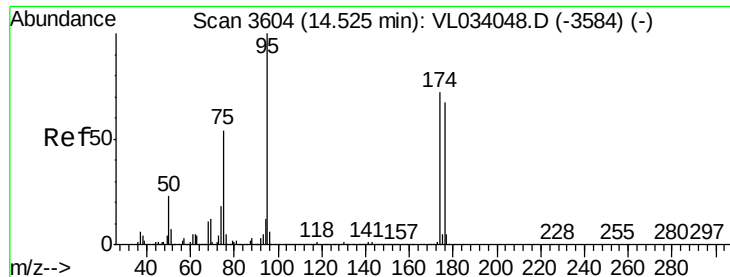


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

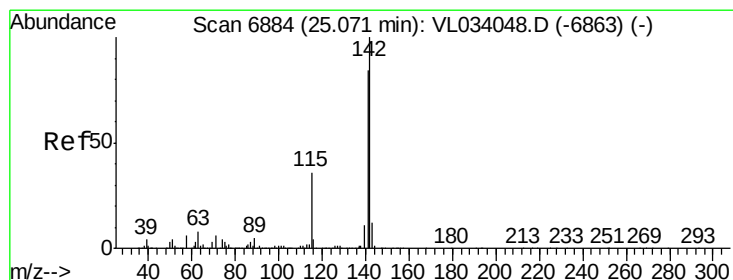
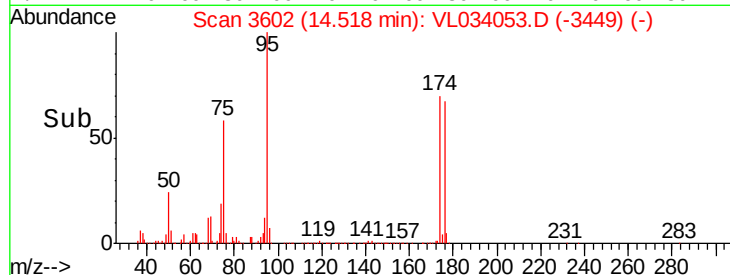
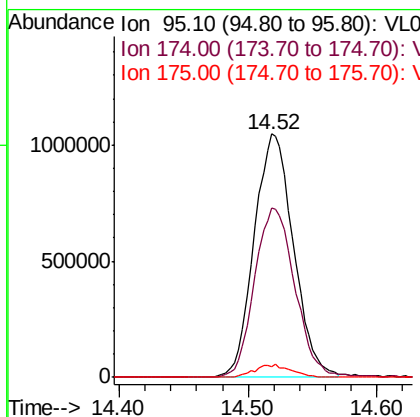
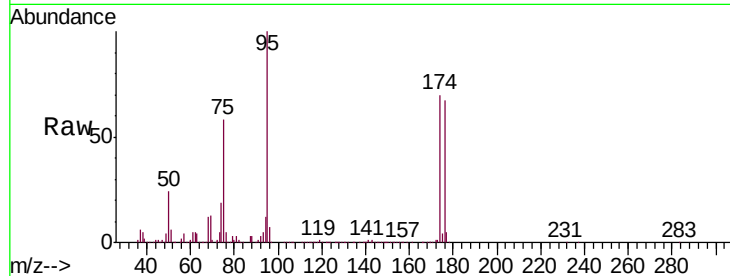




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.957 ppbv
 RT: 14.52 min Scan# 3602
 Delta R.T. -0.01 min
 Lab File: VL034053.D
 Acq: 30 Jul 2019 5:18

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tgt Ion: 95 Resp: 2222322
 Ion Ratio Lower Upper
 95 100
 174 72.0 57.6 86.4
 175 5.1 4.1 6.1



#80
 Naphthalene, 2-methyl-
 Concen: 0.030 ppbv
 RT: 25.09 min Scan# 6889
 Delta R.T. 0.02 min
 Lab File: VL034053.D
 Acq: 30 Jul 2019 5:18

Tgt Ion: 142 Resp: 3357
 Ion Ratio Lower Upper
 142 100
 141 68.6 67.6 101.4
 115 30.2 29.8 44.6

