

Data File : VL032360.D
Acq On : 15 Aug 2018 20:31
Operator : SY/AP
Sample : J4266-01DL 4X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1000DL

Quant Time: Aug 16 05:47:44 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	2389740	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	4632543	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	4436798	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	3549575	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

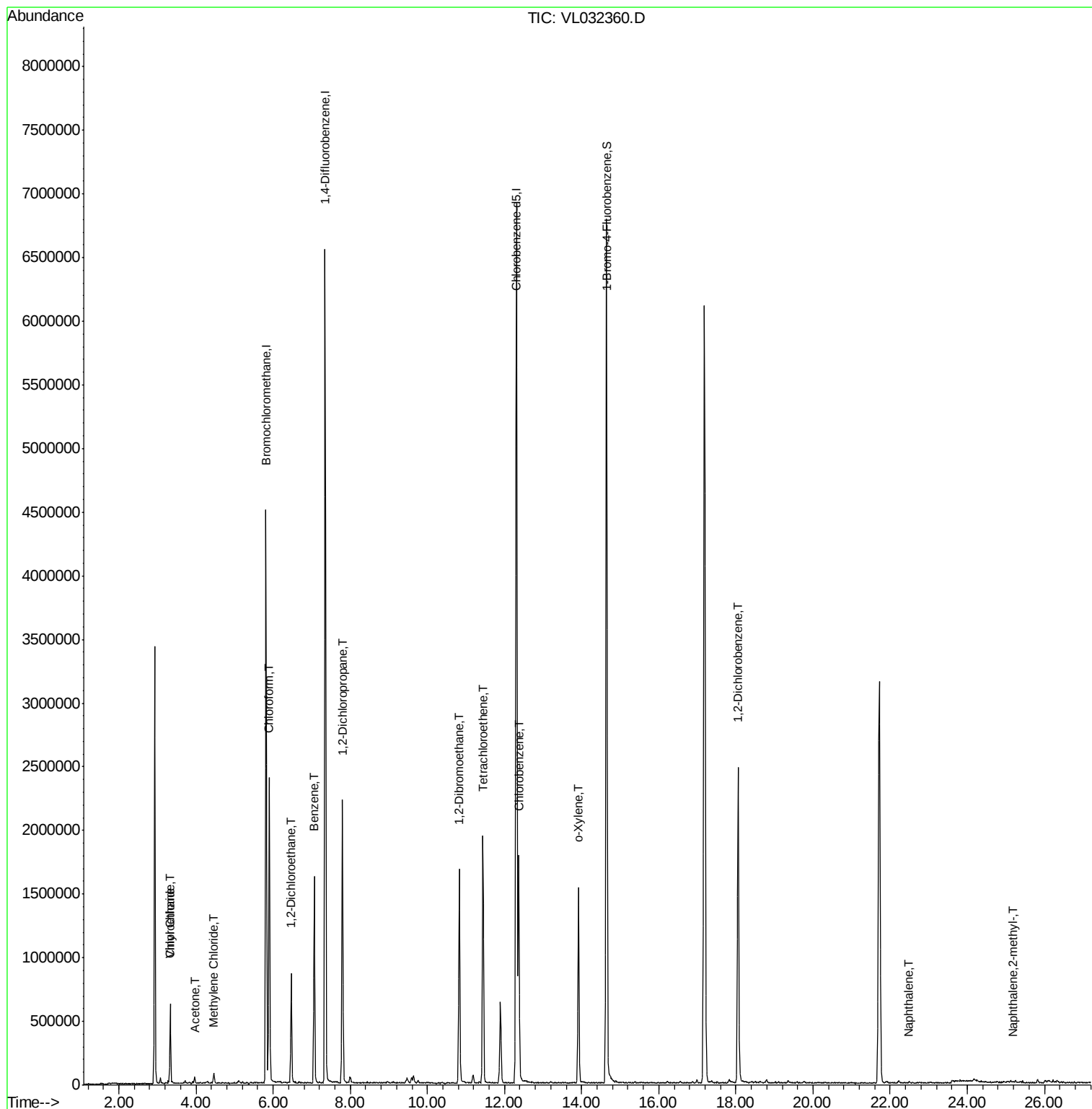
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.12	85	1869	Below Cal		94
5) Vinyl Chloride	3.33	62	549348	4.374	ppbv	99
7) Chloroethane	3.33	64	172086	3.907	ppbv #	44
15) Acetone	3.96	43	43315	0.191	ppbv	94
20) Methylene Chloride	4.46	84	26461	0.309	ppbv	99
29) Chloroform	5.90	83	1648914	5.187	ppbv	97
36) Benzene	7.06	78	1310859	3.338	ppbv	98
37) 1,2-Dichloroethane	6.47	62	702288	2.947	ppbv	100
39) 1,2-Dichloropropane	7.80	63	849539	5.178	ppbv	98
52) Tetrachloroethene	11.44	164	459252	3.965	ppbv	93
54) 1,2-Dibromoethane	10.83	107	1395526	6.017	ppbv	98
57) Chlorobenzene	12.37	112	1078859	3.230	ppbv	99
60) o-Xylene	13.92	91	1087431	2.440	ppbv	98
77) 1,2-Dichlorobenzene	18.06	146	1269247	4.345	ppbv	99
79) Naphthalene	22.49	128	1145	0.330	ppbv #	69
80) Naphthalene,2-methyl-	25.17	142	3769	0.037	ppbv #	76

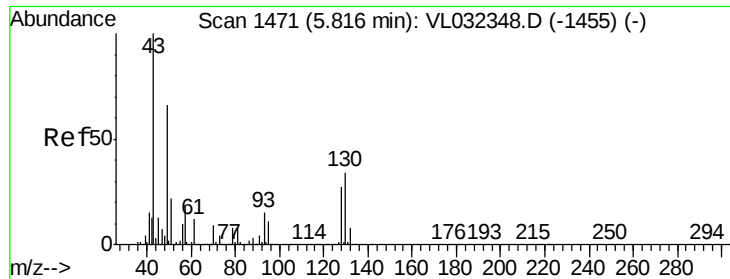
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampleId :

1000DL

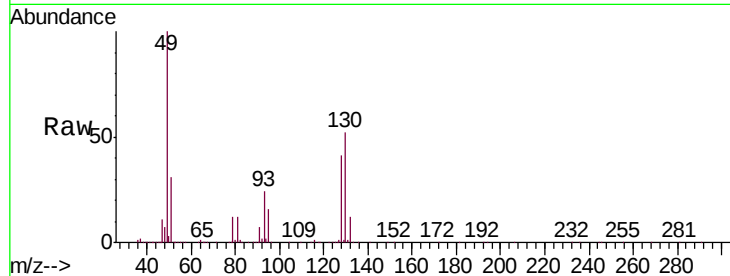
Tgt Ion: 49 Resp: 2389740

Ion Ratio Lower Upper

49 100

128 41.2 20.5 61.6

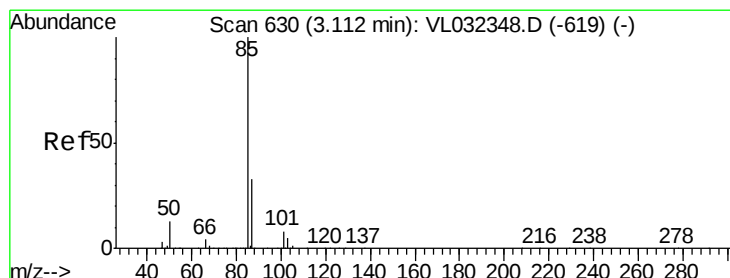
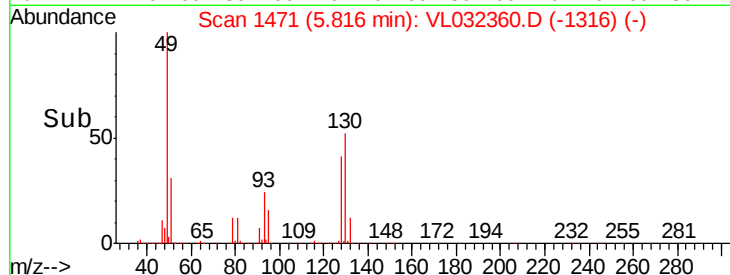
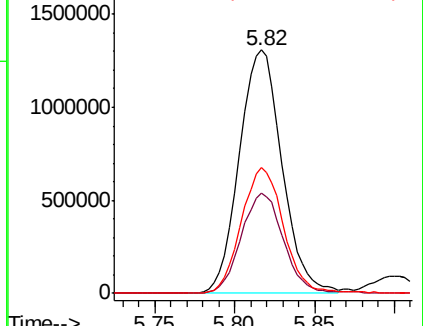
130 51.3 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL032360.D

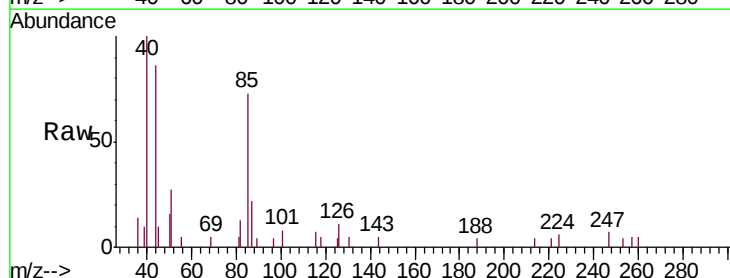
Acq: 15 Aug 2018 20:31

Tgt Ion: 85 Resp: 1869

Ion Ratio Lower Upper

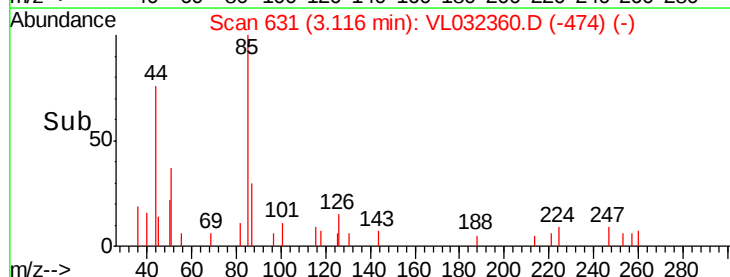
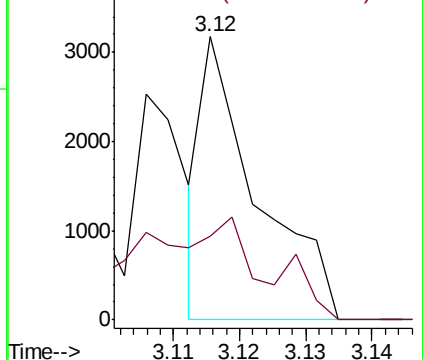
85 100

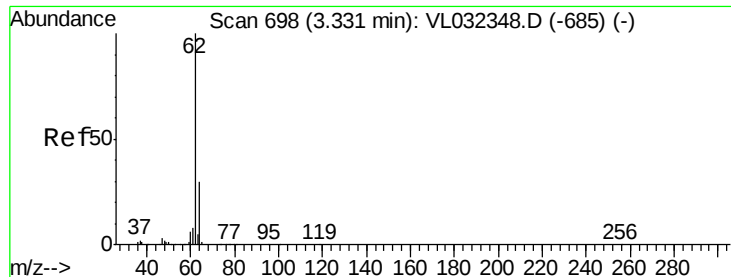
87 29.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#5

Vinyl Chloride

Concen: 4.374 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampleId :

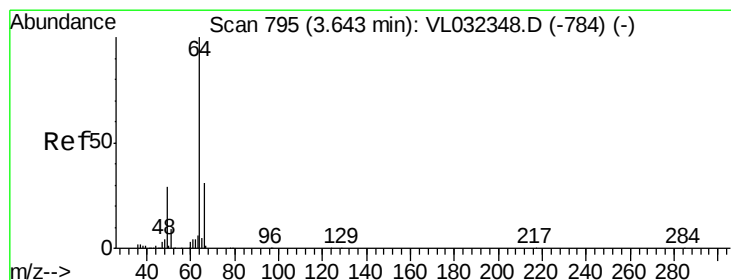
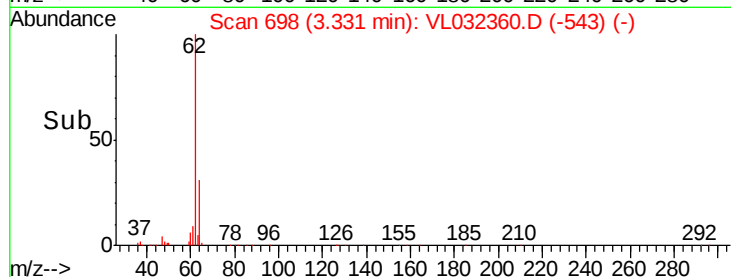
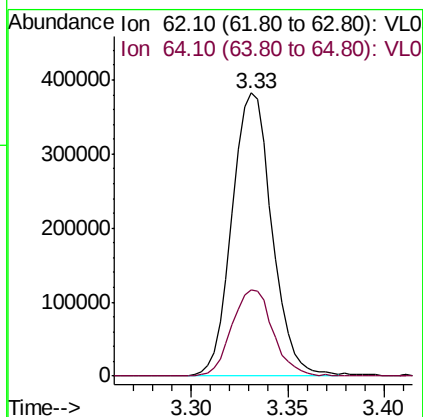
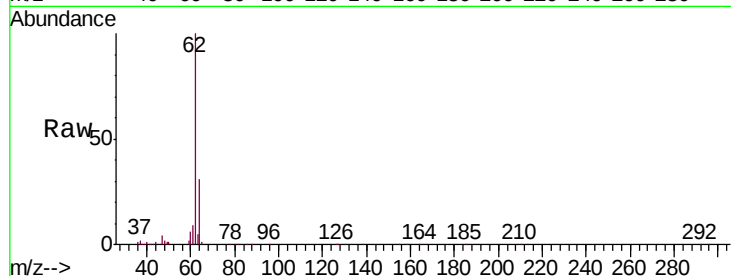
1000DL

Tgt Ion: 62 Resp: 549348

Ion Ratio Lower Upper

62 100

64 30.6 24.2 36.2



#7

Chloroethane

Concen: 3.907 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.31 min

Lab File: VL032360.D

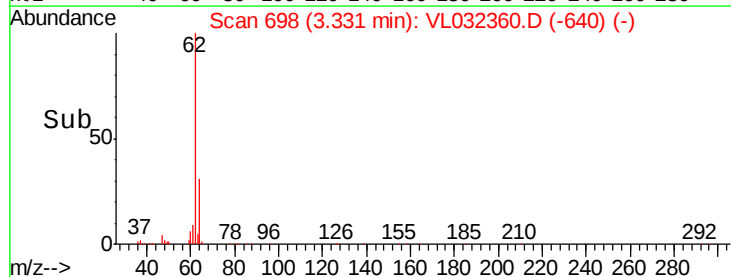
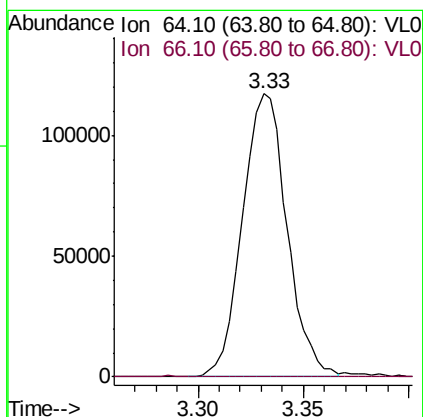
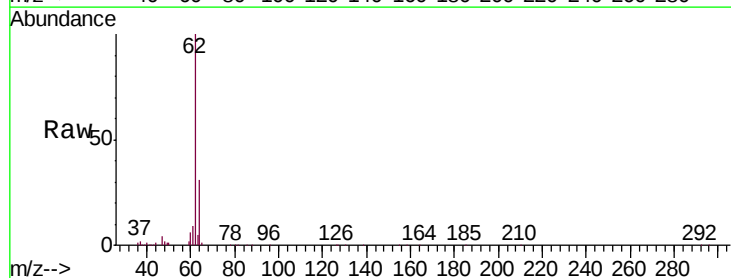
Acq: 15 Aug 2018 20:31

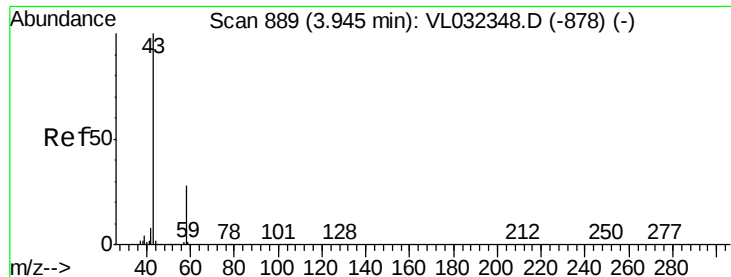
Tgt Ion: 64 Resp: 172086

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#





#15

Acetone

Concen: 0.191 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.02 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampleId :

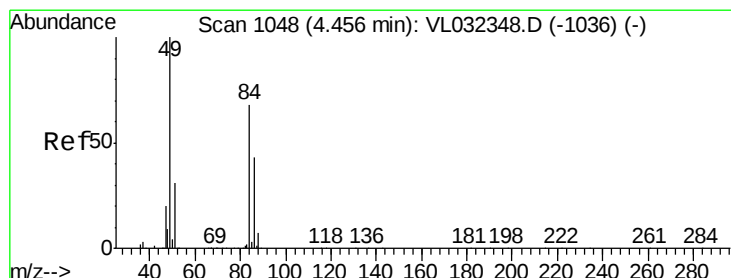
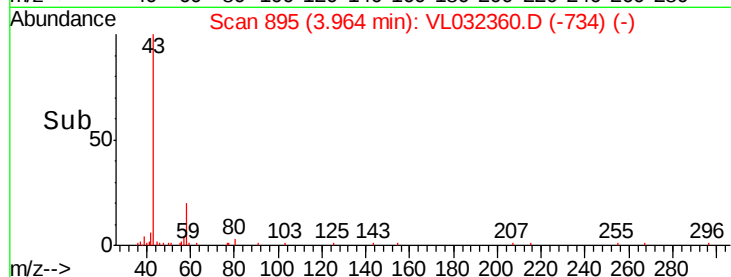
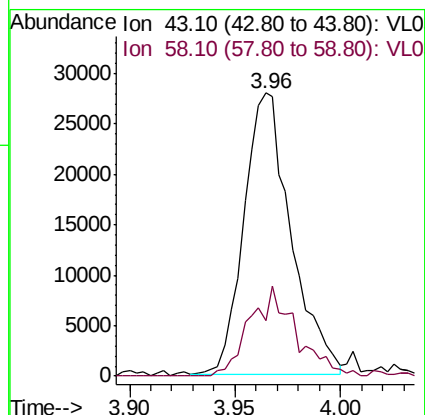
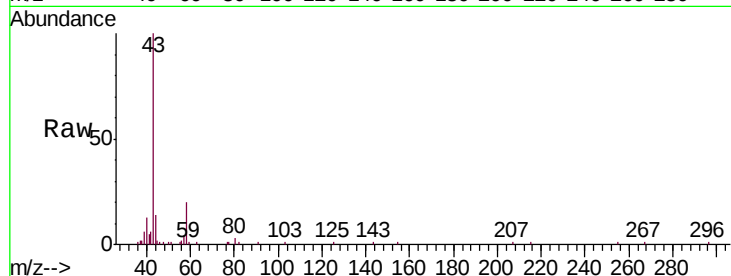
1000DL

Tgt Ion: 43 Resp: 43315

Ion Ratio Lower Upper

43 100

58 31.1 22.4 33.6



#20

Methylene Chloride

Concen: 0.309 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Tgt Ion: 84 Resp: 26461

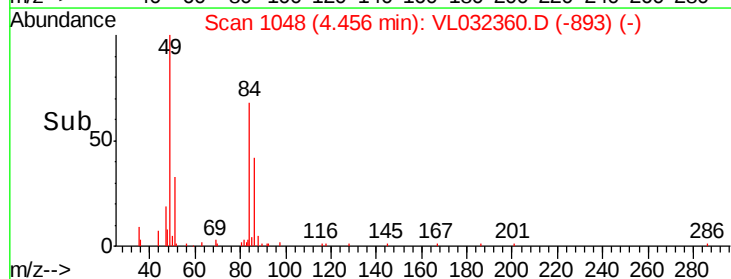
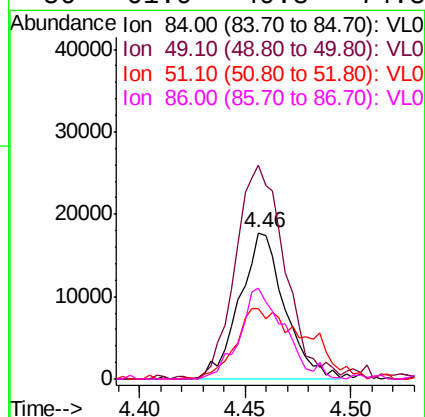
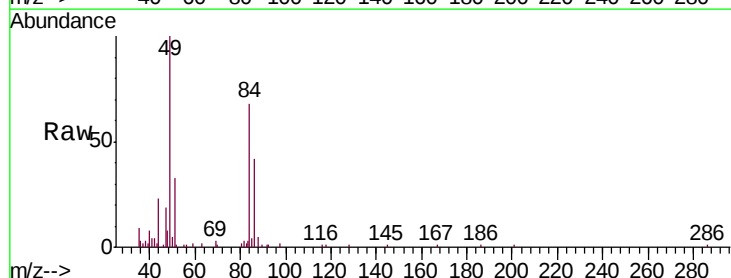
Ion Ratio Lower Upper

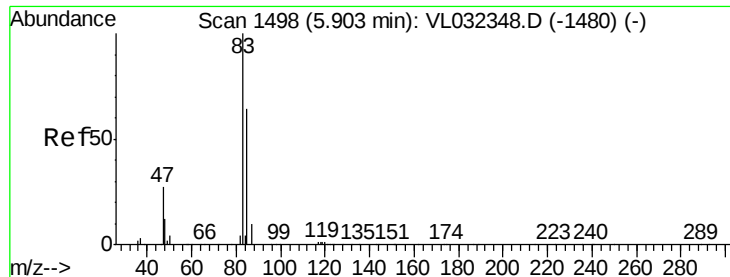
84 100

49 146.2 117.3 175.9

51 47.3 36.6 55.0

86 61.9 49.8 74.8





#29

Chloroform

Concen: 5.187 ppbv

RT: 5.90 min Scan# 1497

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampleId :

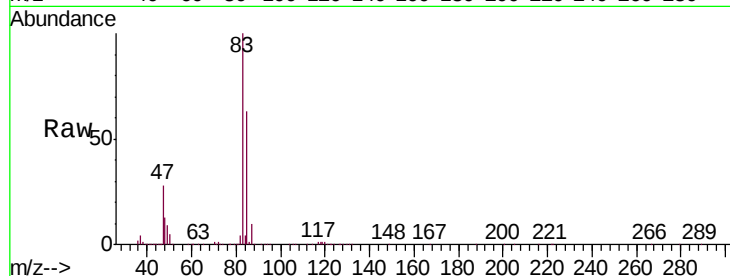
1000DL

Tgt Ion: 83 Resp: 1648914

Ion Ratio Lower Upper

83 100

85 62.5 51.6 77.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

1000000

800000

600000

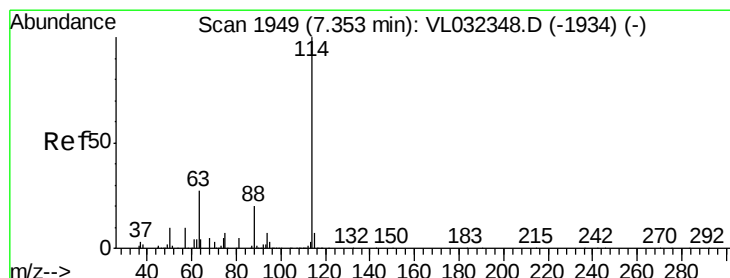
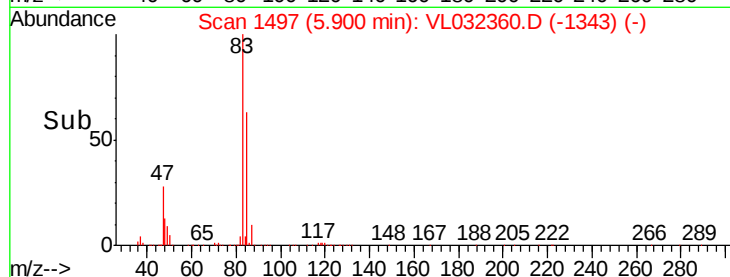
400000

200000

0

5.80 5.85 5.90 5.95

Time-->



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.35 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

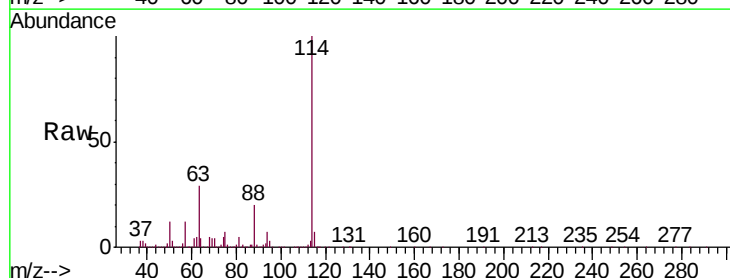
Tgt Ion: 114 Resp: 4632543

Ion Ratio Lower Upper

114 100

63 28.1 22.0 33.0

88 19.3 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

3000000

2500000

2000000

1500000

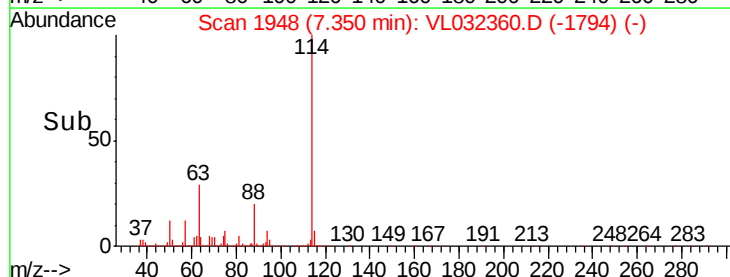
1000000

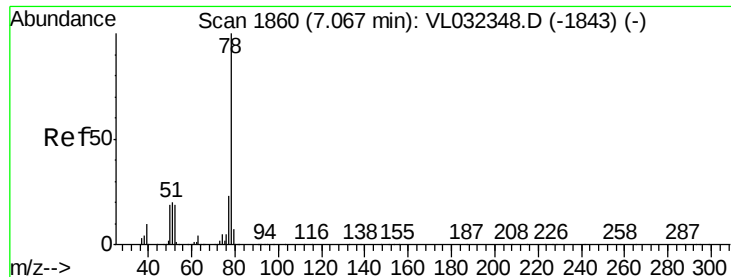
500000

0

7.30 7.35 7.40

Time-->





#36

Benzene

Concen: 3.338 ppbv

RT: 7.06 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

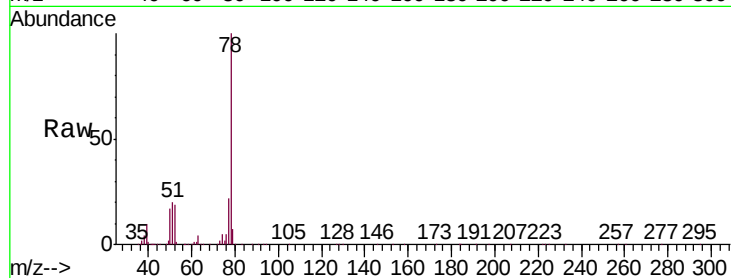
MSVOA_L

ClientSampleId :

1000DL

Tgt Ion: 78 Resp: 1310859

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.0	27.0
50	17.2	15.1	22.7

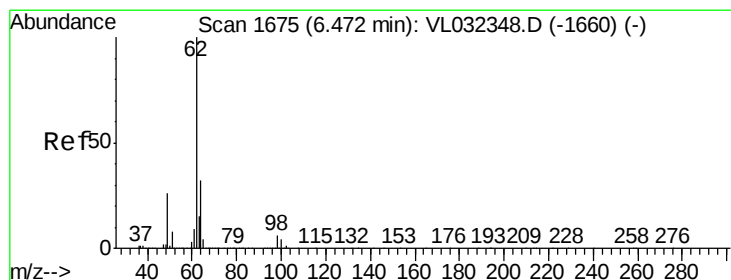
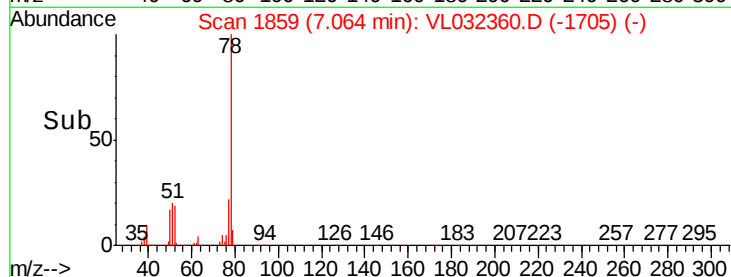
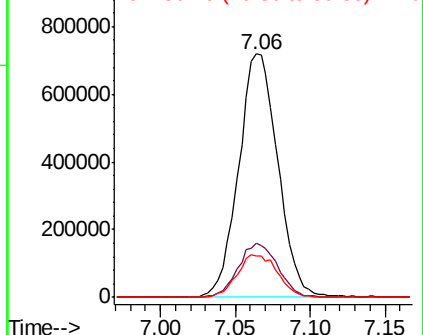


Abundance

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: 2.947 ppbv

RT: 6.47 min Scan# 1674

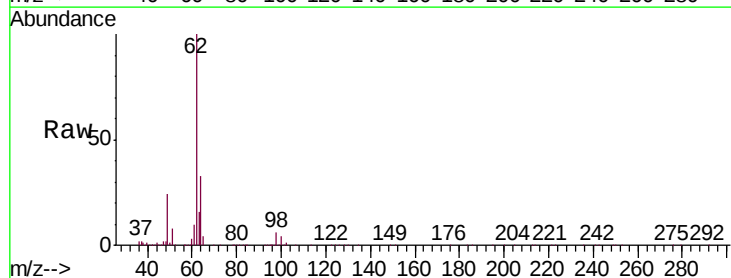
Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Tgt Ion: 62 Resp: 702288

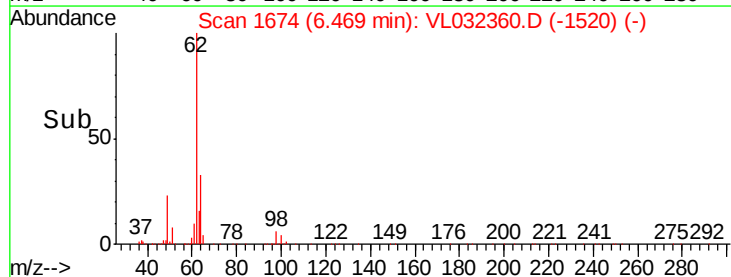
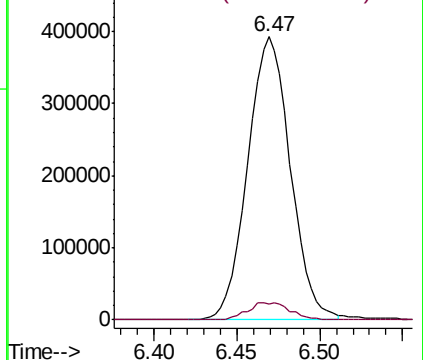
Ion	Ratio	Lower	Upper
62	100		
98	6.3	5.0	7.6

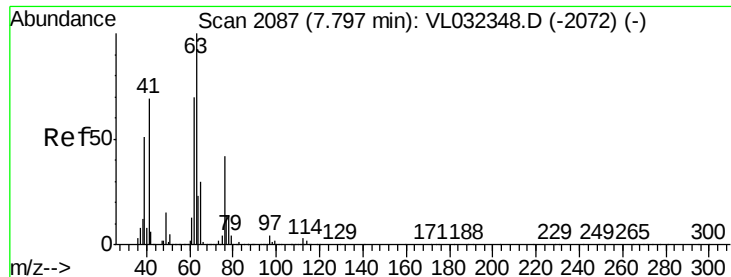


Abundance

Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

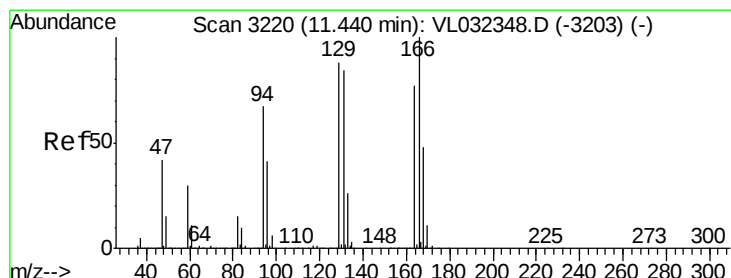
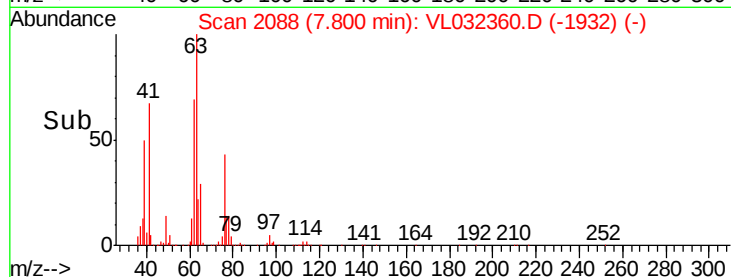
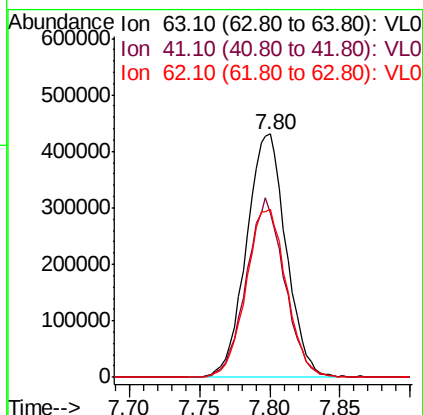
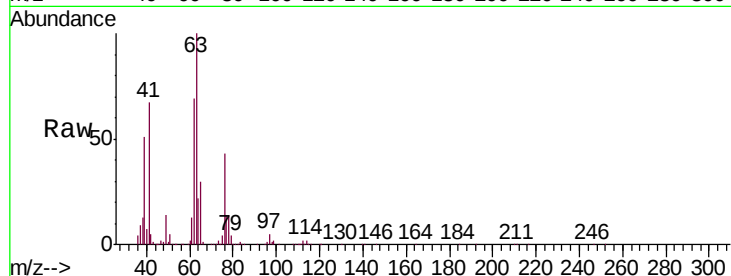




#39
 1,2-Dichloropropane
 Concen: 5.178 ppbv
 RT: 7.80 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VL032360.D
 Acq: 15 Aug 2018 20:31

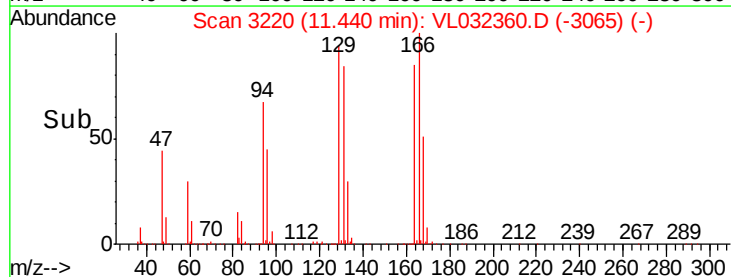
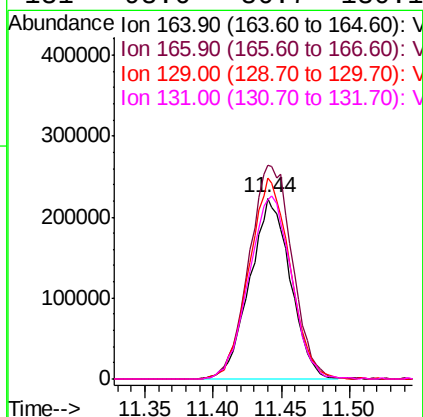
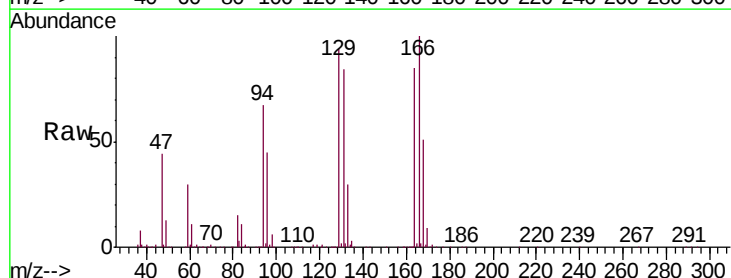
Instrument :
 MSVOA_L
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 1000DL

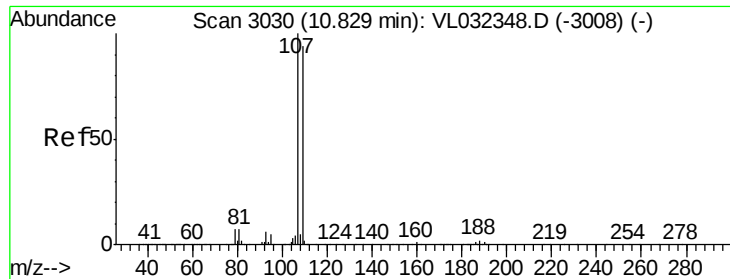
Tgt Ion: 63 Resp: 849539
 Ion Ratio Lower Upper
 63 100
 41 67.4 55.5 83.3
 62 69.2 56.3 84.5



#52
 Tetrachloroethene
 Concen: 3.965 ppbv
 RT: 11.44 min Scan# 3220
 Delta R.T. -0.00 min
 Lab File: VL032360.D
 Acq: 15 Aug 2018 20:31

Tgt Ion: 164 Resp: 459252
 Ion Ratio Lower Upper
 164 100
 166 117.8 103.5 155.3
 129 110.5 90.9 136.3
 131 98.6 86.7 130.1





#54

1,2-Dibromoethane

Concen: 6.017 ppbv

RT: 10.83 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampleId :

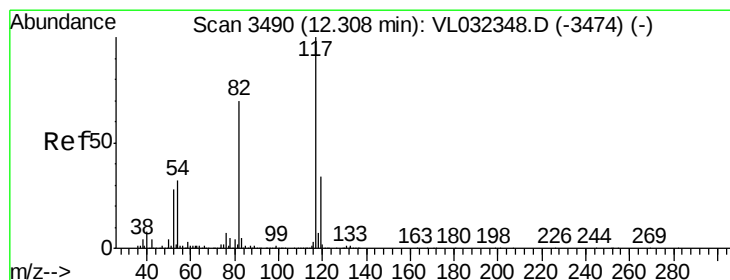
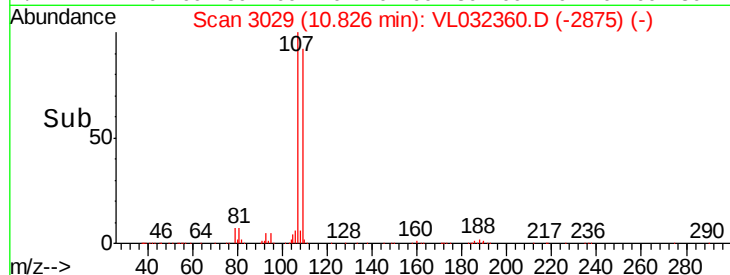
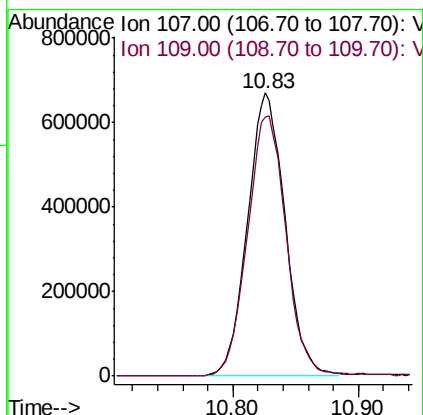
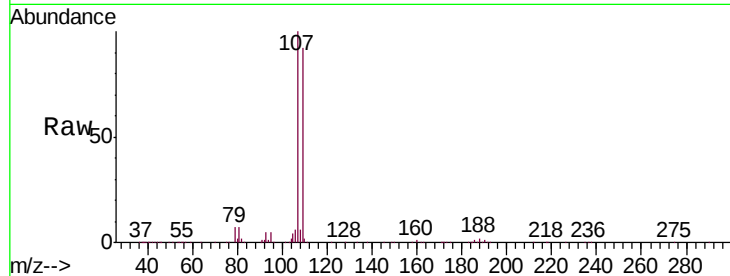
1000DL

Tgt Ion:107 Resp: 1395526

Ion Ratio Lower Upper

107 100

109 91.6 74.9 112.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.30 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

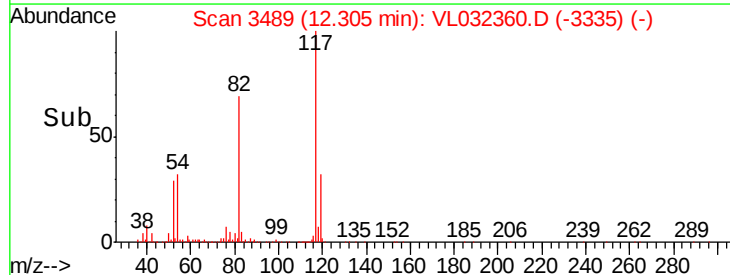
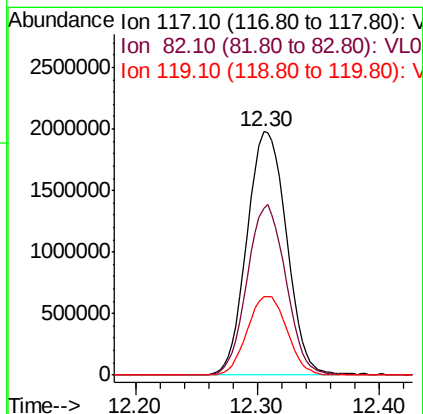
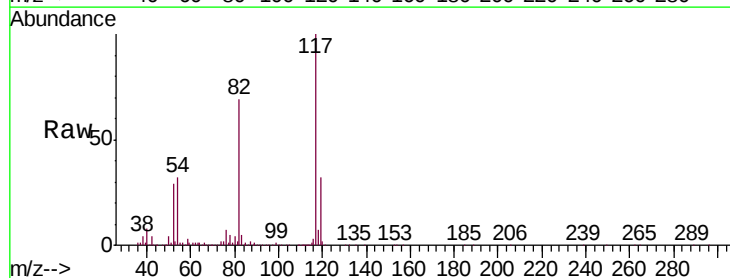
Tgt Ion:117 Resp: 4436798

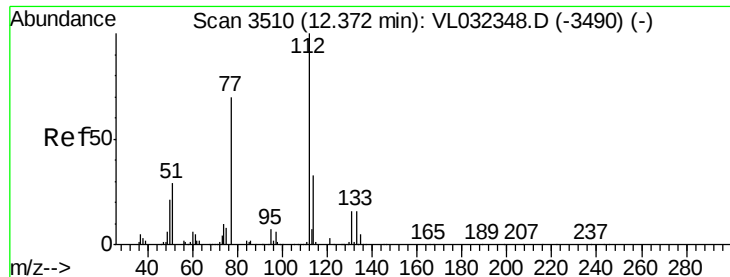
Ion Ratio Lower Upper

117 100

82 69.0 55.1 82.7

119 32.6 46.0 69.0#





#57

Chlorobenzene

Concen: 3.230 ppbv

RT: 12.37 min Scan# 3509

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampleId :

1000DL

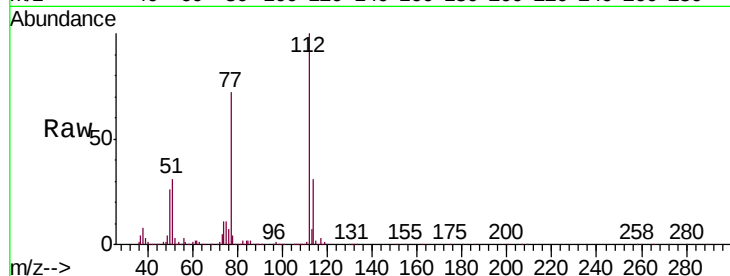
Tgt Ion: 112 Resp: 1078859

Ion Ratio Lower Upper

112 100

77 71.3 56.6 84.8

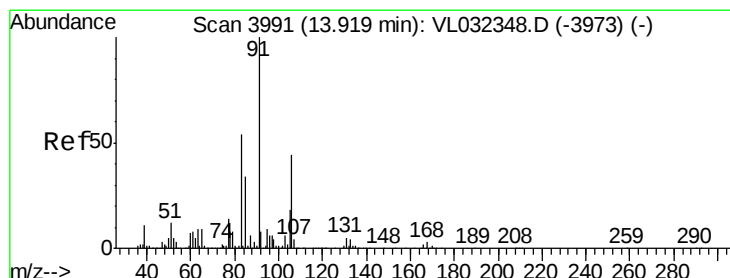
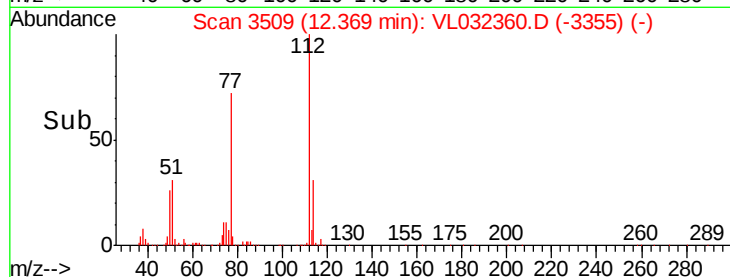
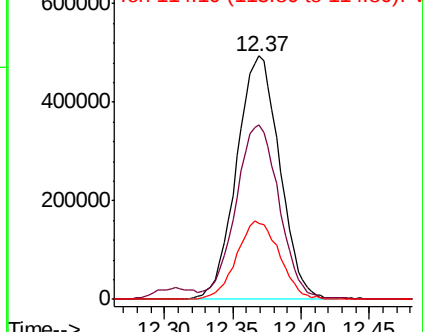
114 31.2 29.4 36.0



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#60

o-Xylene

Concen: 2.440 ppbv

RT: 13.92 min Scan# 3990

Delta R.T. -0.00 min

Lab File: VL032360.D

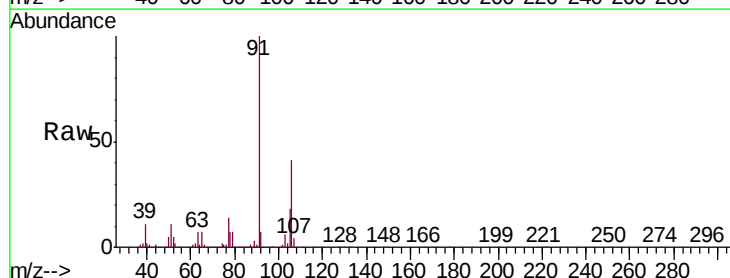
Acq: 15 Aug 2018 20:31

Tgt Ion: 91 Resp: 1087431

Ion Ratio Lower Upper

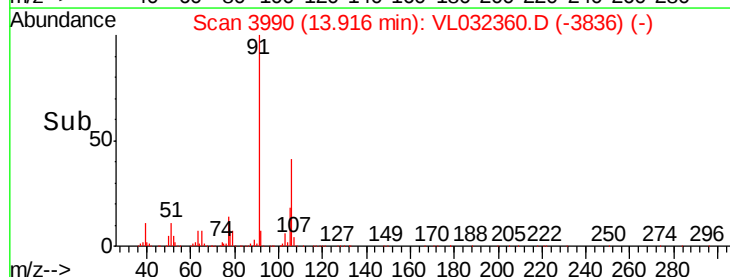
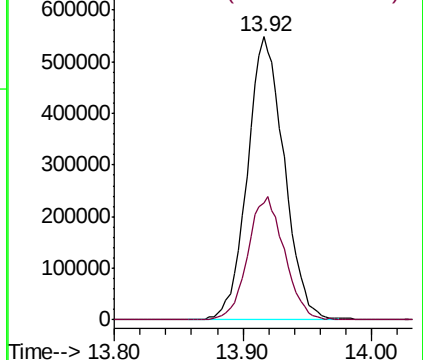
91 100

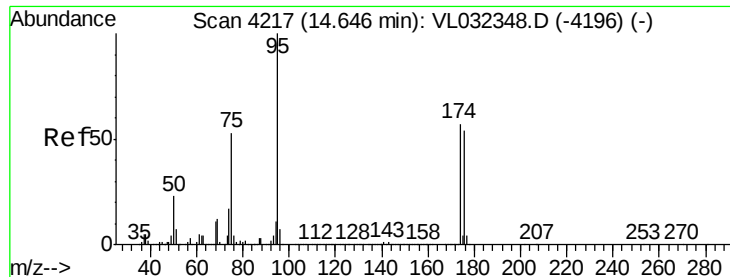
106 43.4 22.3 66.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.486 ppbv

RT: 14.65 min Scan# 4217

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampleId :

1000DL

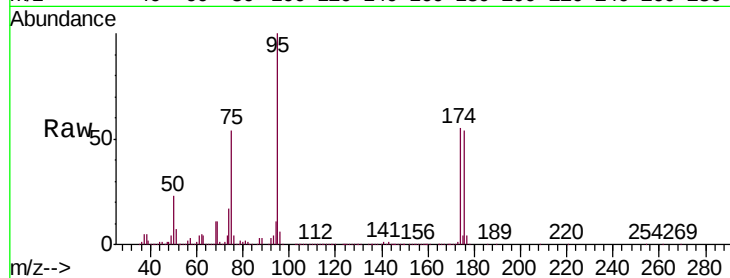
Tgt Ion: 95 Resp: 3549575

Ion Ratio Lower Upper

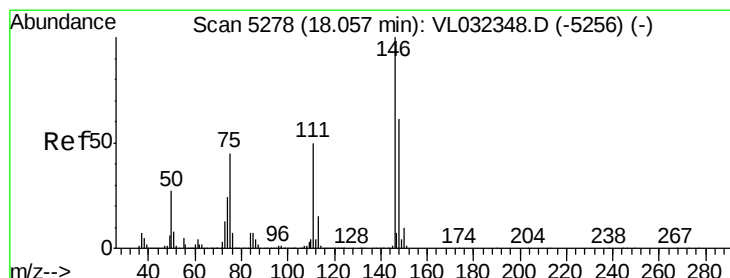
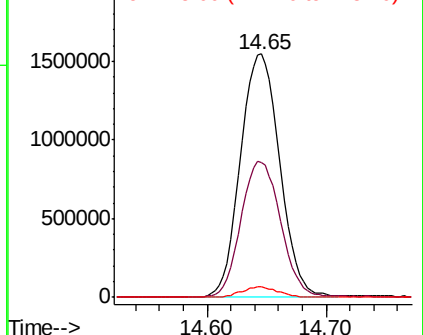
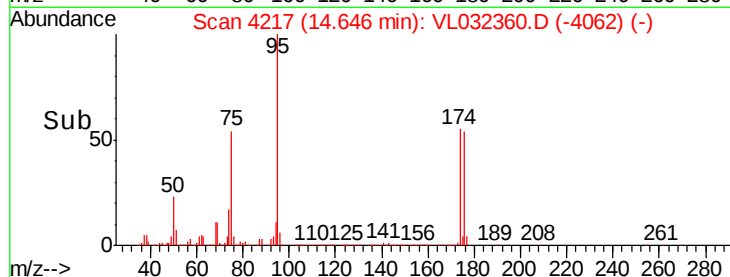
95 100

174 57.2 46.2 69.4

175 4.1 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL032360.D (-4062) (-)



#77

1,2-Dichlorobenzene

Concen: 4.345 ppbv

RT: 18.06 min Scan# 5278

Delta R.T. -0.00 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

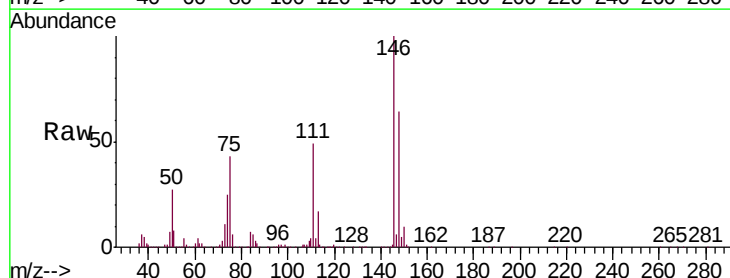
Tgt Ion: 146 Resp: 1269247

Ion Ratio Lower Upper

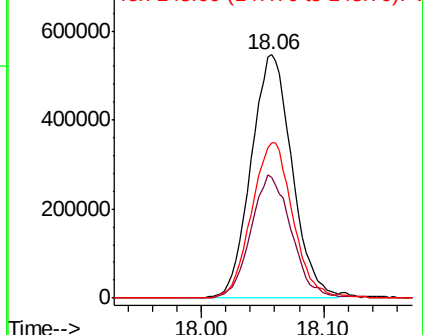
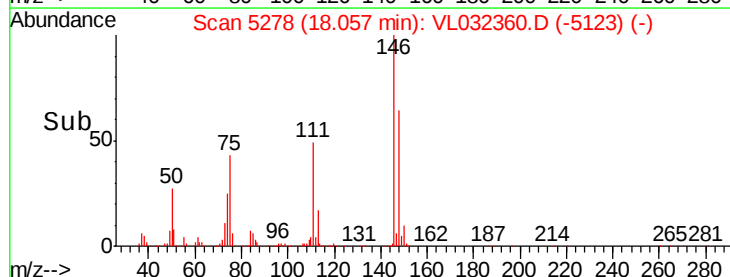
146 100

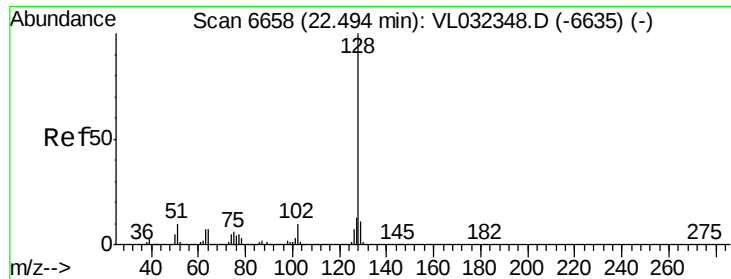
111 50.1 25.2 75.6

148 64.8 31.8 95.4



Abundance Ion 146.00 (145.70 to 146.70): VL032360.D (-5123) (-)





#79

Naphthalene

Concen: 0.330 ppbv

RT: 22.49 min Scan# 6656

Delta R.T. -0.01 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Instrument :

MSVOA_L

ClientSampled :

1000DL

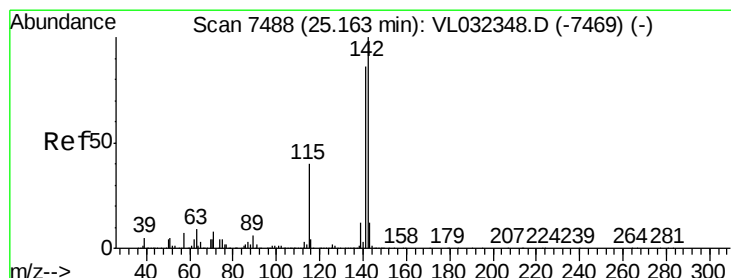
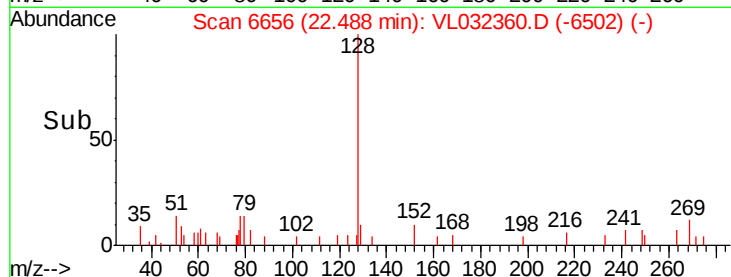
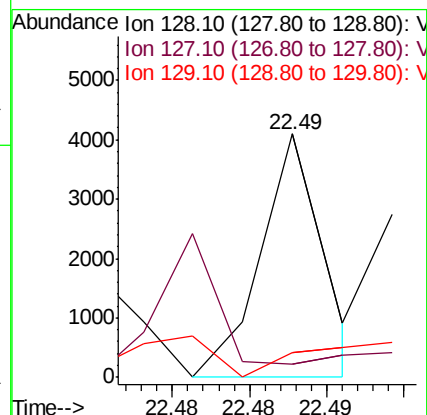
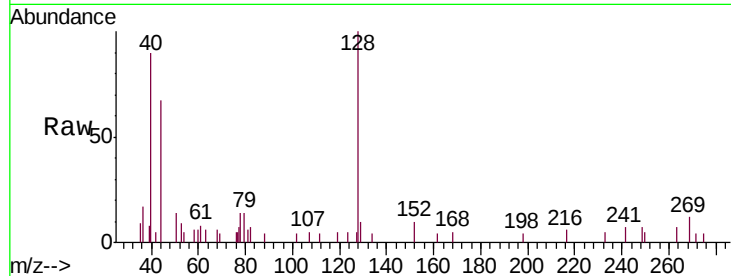
Tgt Ion:128 Resp: 1145

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



#80

Naphthalene, 2-methyl-

Concen: 0.037 ppbv

RT: 25.17 min Scan# 7490

Delta R.T. 0.01 min

Lab File: VL032360.D

Acq: 15 Aug 2018 20:31

Tgt Ion:142 Resp: 3769

Ion Ratio Lower Upper

142 100

141 64.6 66.7 100.1#

115 58.5 31.0 46.6#

