

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032591.D
 Acq On : 3 Oct 2018 22:35
 Operator : SY/AP
 Sample : J5094-10DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 04 09:57:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1018127	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2611968	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2857931	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2003114	9.29	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

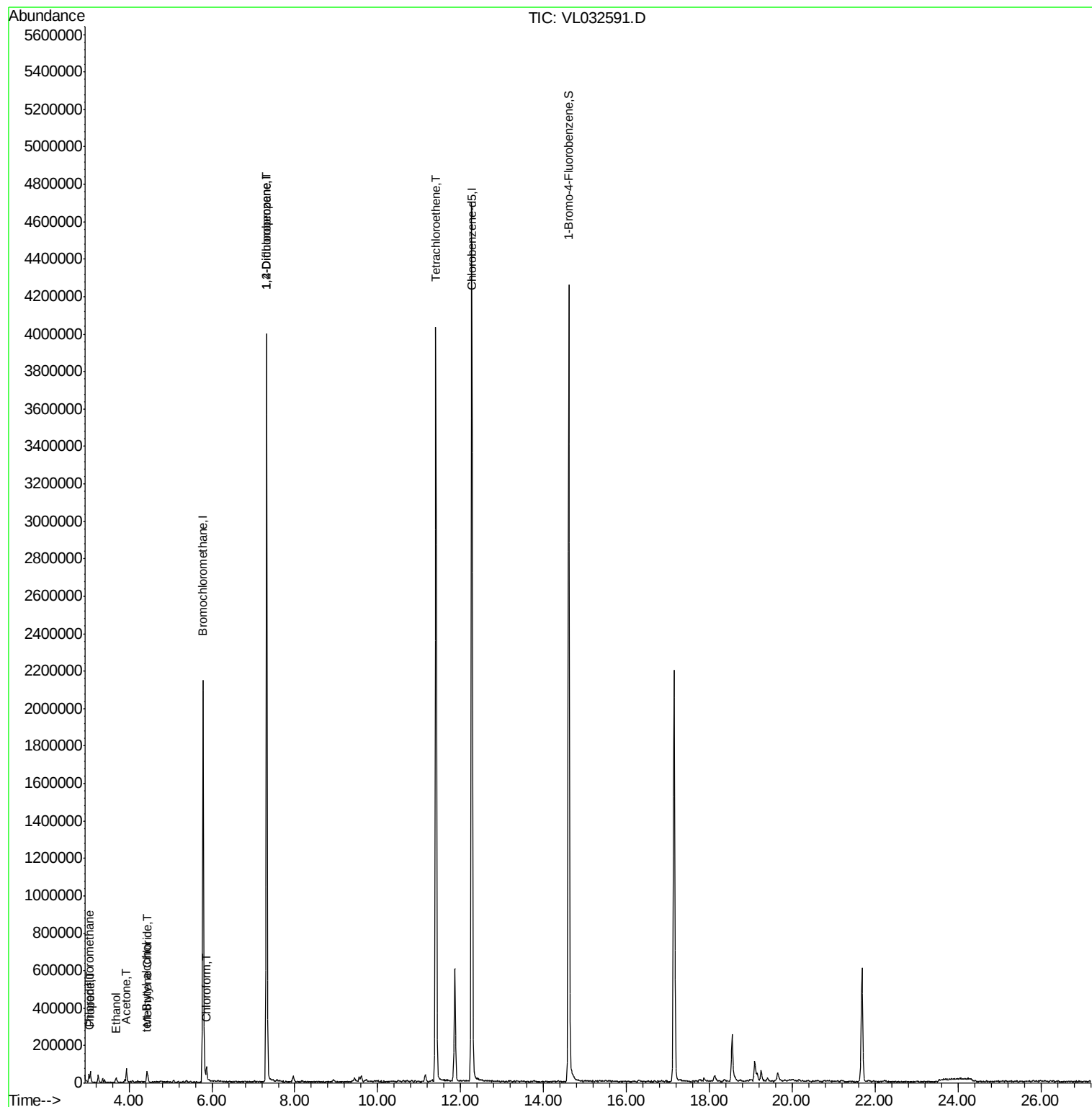
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.03	51	36732	0.434	ppbv	98
9) Propene	3.07	41	8967	0.244	ppbv	98
13) Ethanol	3.69	45	21241	1.924	ppbv	87
15) Acetone	3.94	43	77112	0.863	ppbv	99
17) tert-Butyl alcohol	4.41	59	1638	0.146	ppbv #	100
20) Methylene Chloride	4.43	84	16632	0.384	ppbv	93
29) Chloroform	5.87	83	42925	0.286	ppbv	98
39) 1,2-Dichloropropane	7.32	63	702991	7.390	ppbv #	26
52) Tetrachloroethene	11.41	164	913839	12.434	ppbv	99

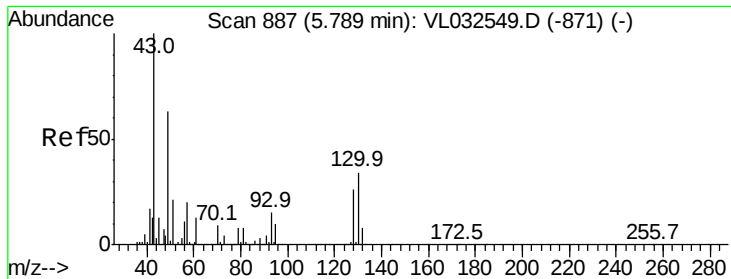
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
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QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

Instrument :
MSVOA_L
ClientSampleId :

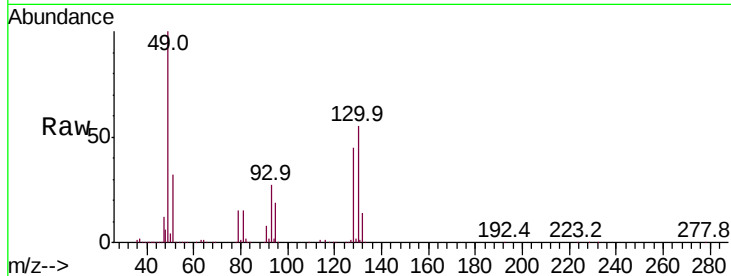
Tot Ion: 49 Resp: 1018127

Ion	Ratio	Lower	Upper
49	100		
128	46.5	20.7	62.1
130	59.3	26.6	79.7

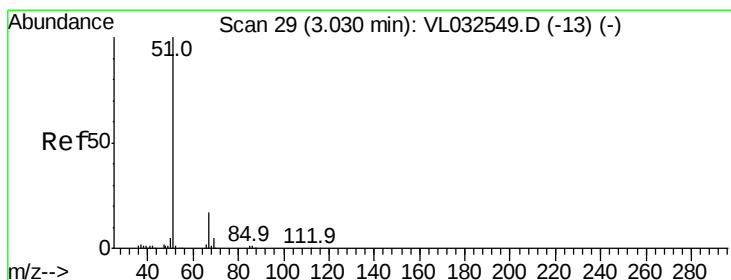
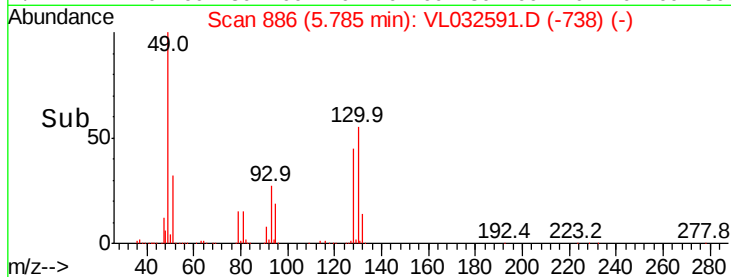
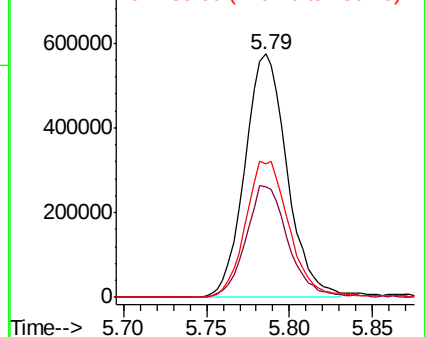
49 100

128 46.5 20.7 62.1

130 59.3 26.6 79.7



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



#3

Chlorodifluoromethane

Concen: 0.434 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032591.D

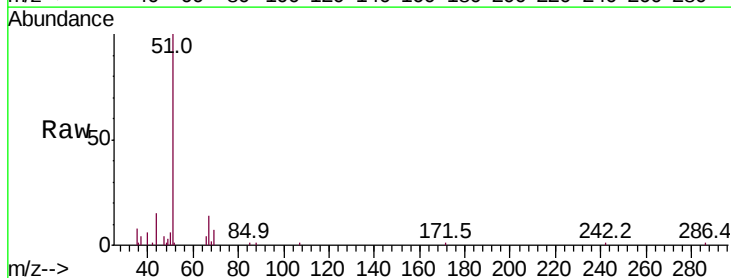
Acq: 3 Oct 2018 22:35

Tgt Ion: 51 Resp: 36732

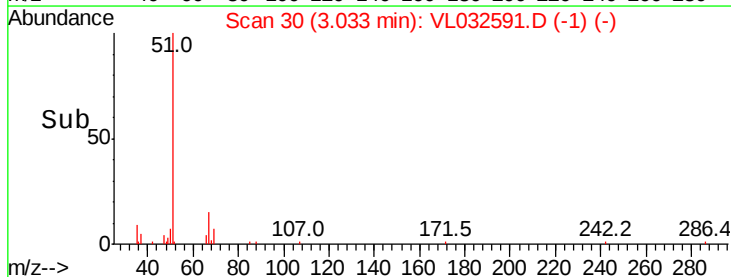
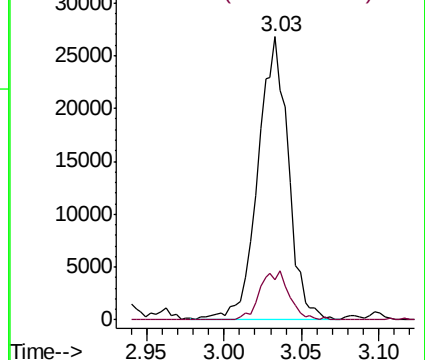
Ion	Ratio	Lower	Upper
51	100		
67	16.6	13.8	20.8

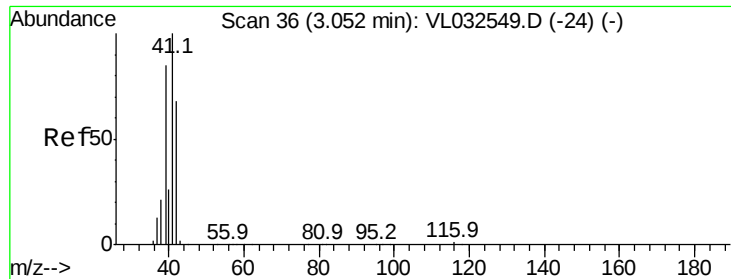
51 100

67 16.6 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.244 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

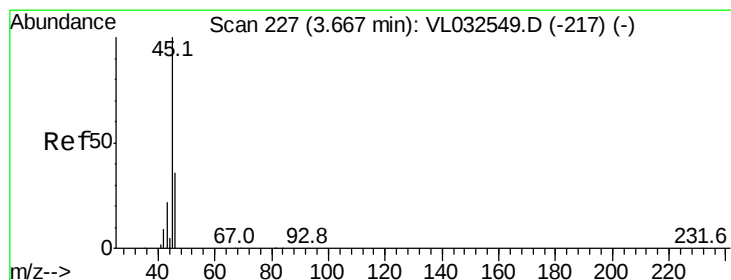
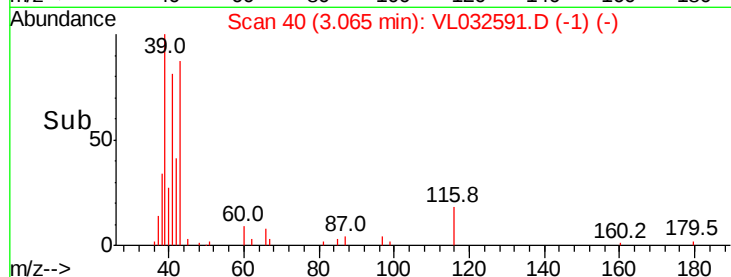
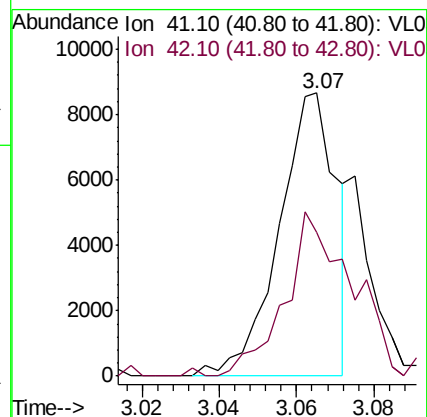
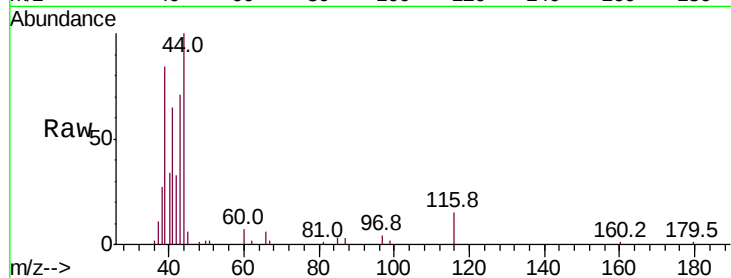
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 8967

Ion Ratio Lower Upper

41 100

42 69.3 56.6 84.8



#13

Ethanol

Concen: 1.924 ppbv

RT: 3.69 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL032591.D

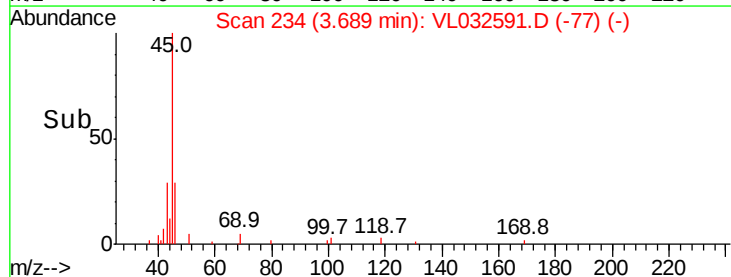
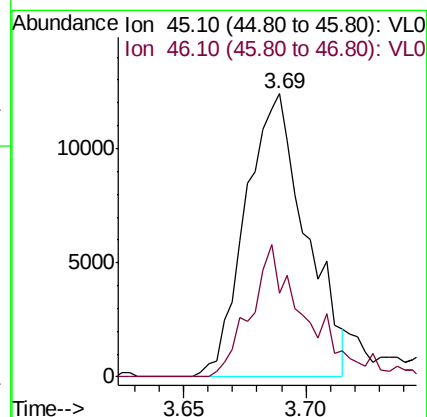
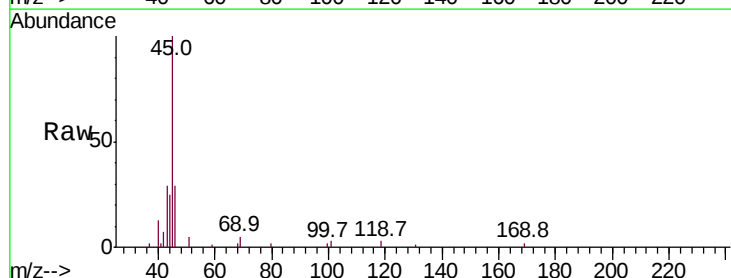
Acq: 3 Oct 2018 22:35

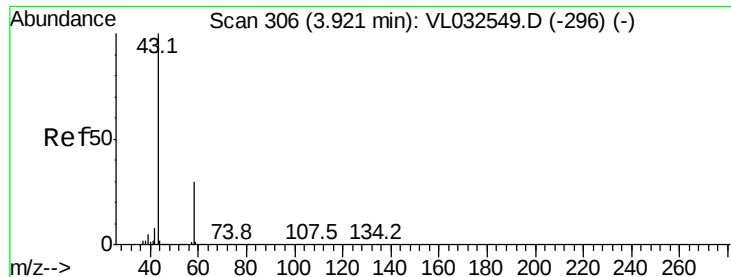
Tgt Ion: 45 Resp: 21241

Ion Ratio Lower Upper

45 100

46 43.0 14.2 56.8





#15

Acetone

Concen: 0.863 ppbv

RT: 3.94 min Scan# 311

Delta R.T. -0.00 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

Instrument :

MSVOA_L

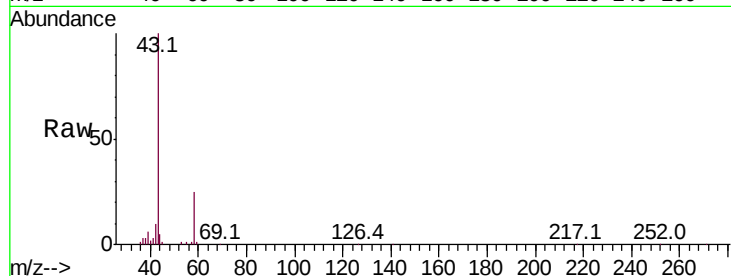
ClientSampled :

Tot Ion: 43 Resp: 77112

Ion Ratio Lower Upper

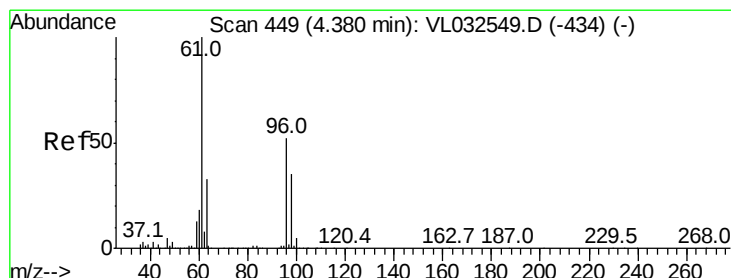
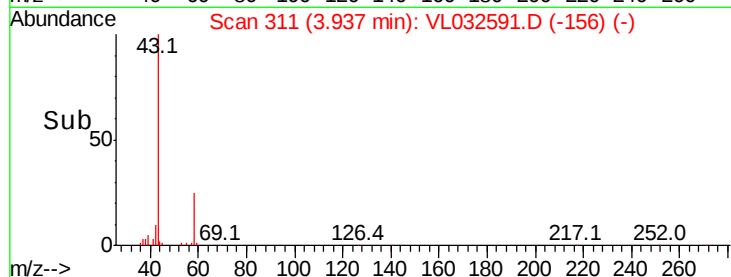
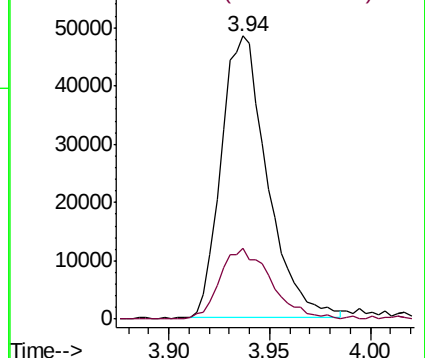
43 100

58 27.9 22.6 33.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.146 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL032591.D

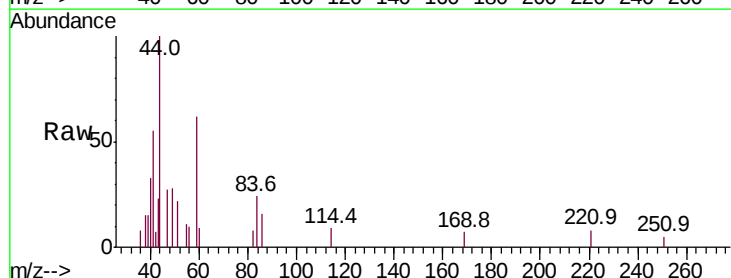
Acq: 3 Oct 2018 22:35

Tgt Ion: 59 Resp: 1638

Ion Ratio Lower Upper

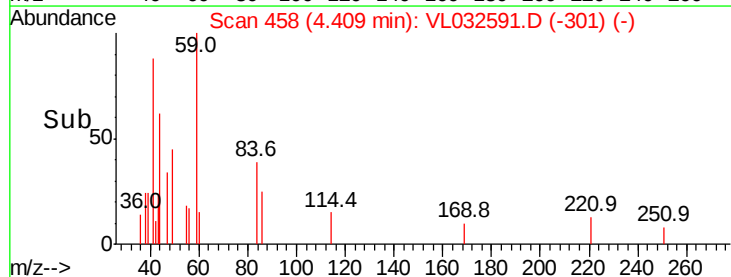
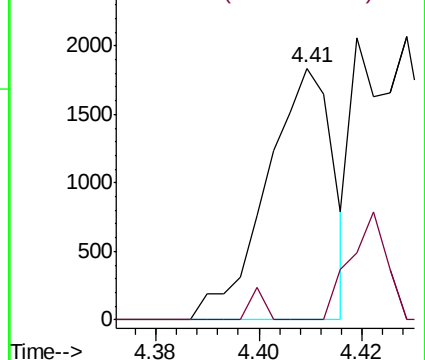
59 100

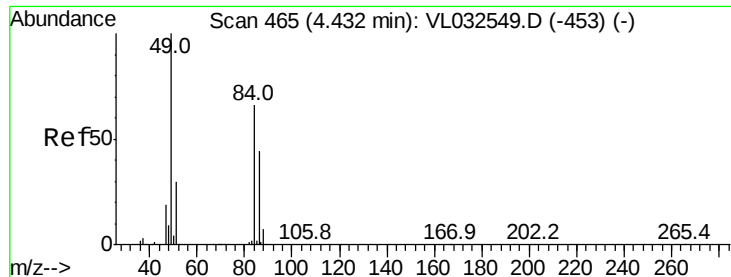
57 0.0 0.0 0.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#20

Methylene Chloride

Concen: 0.384 ppbv

RT: 4.43 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 84 Resp: 16632

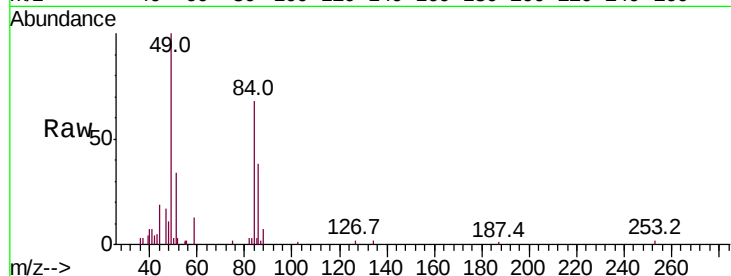
Ion Ratio Lower Upper

84 100

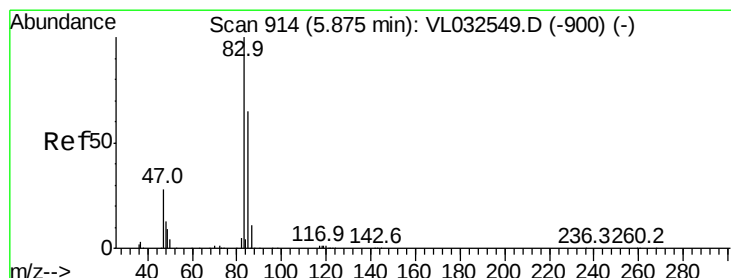
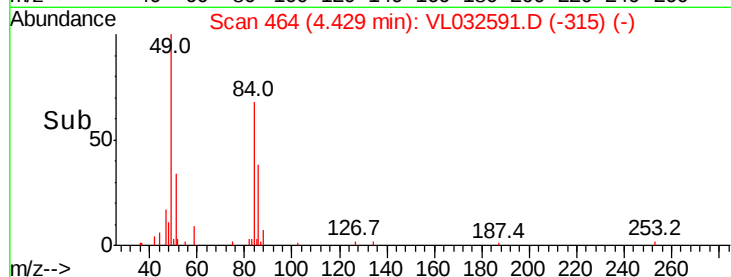
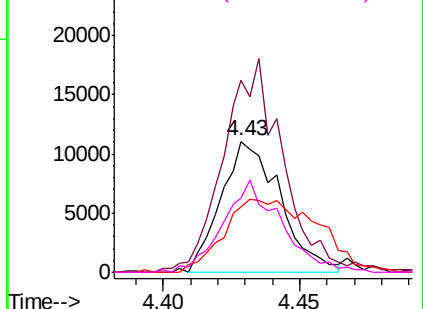
49 139.2 119.1 178.7

51 44.3 35.2 52.8

86 53.7 49.4 74.2



Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0



#29

Chloroform

Concen: 0.286 ppbv

RT: 5.87 min Scan# 913

Delta R.T. -0.02 min

Lab File: VL032591.D

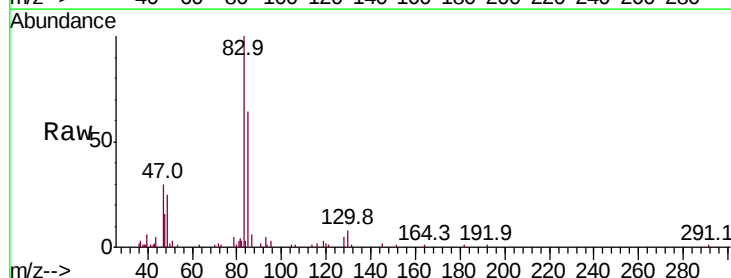
Acq: 3 Oct 2018 22:35

Tgt Ion: 83 Resp: 42925

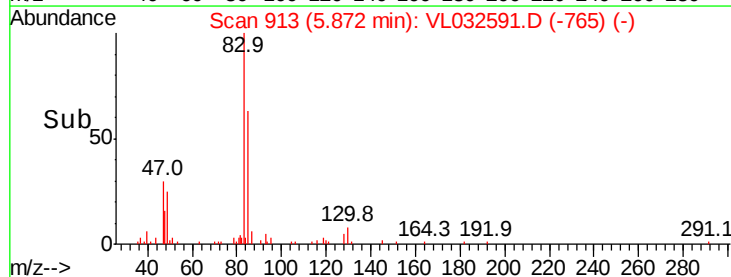
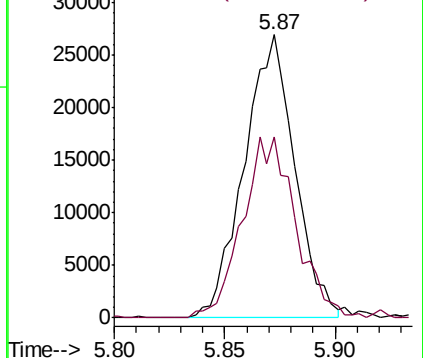
Ion Ratio Lower Upper

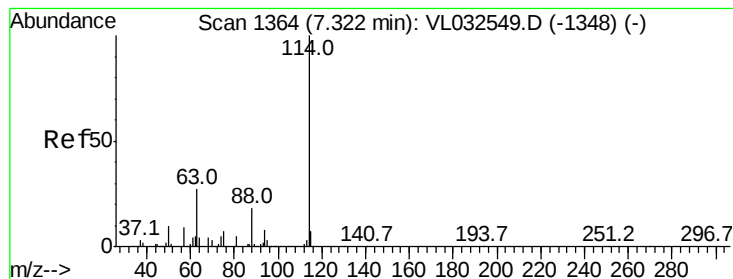
83 100

85 64.0 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.03 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

Instrument :
MSVOA_L
ClientSampleId :

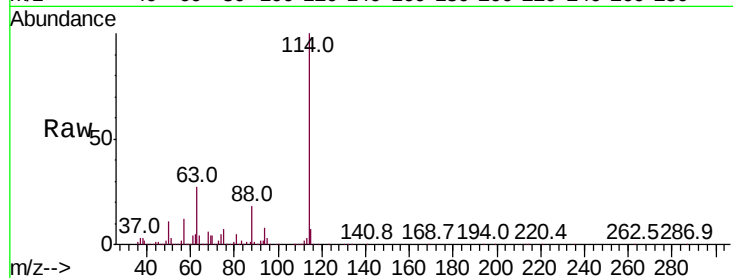
Tot Ion:114 Resp: 2611968

Ion Ratio Lower Upper

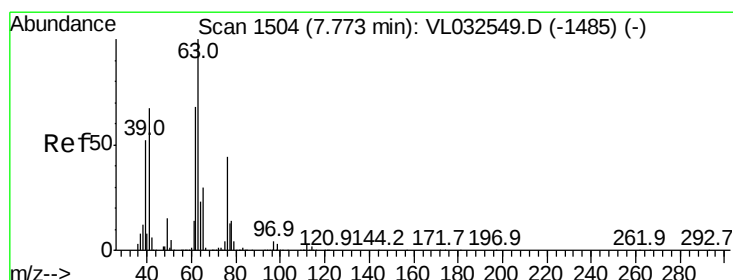
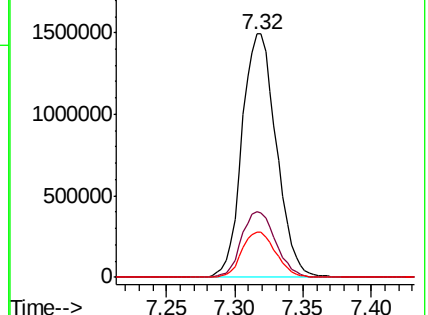
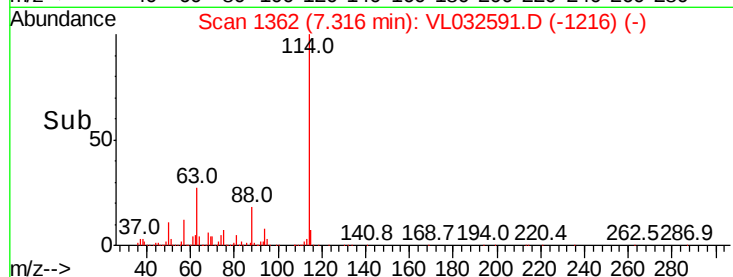
114 100

63 27.0 22.2 33.4

88 18.6 15.0 22.4



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



#39

1,2-Dichloropropane

Concen: 7.390 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

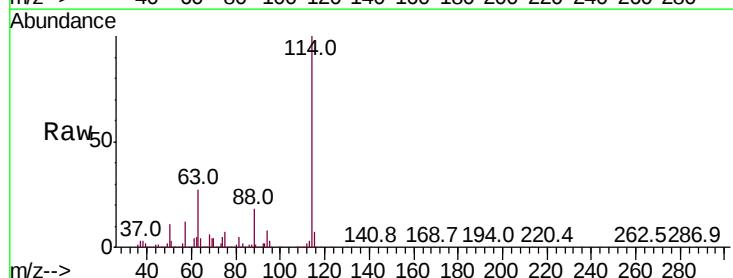
Tgt Ion: 63 Resp: 702991

Ion Ratio Lower Upper

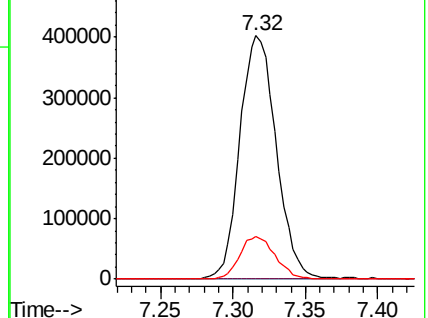
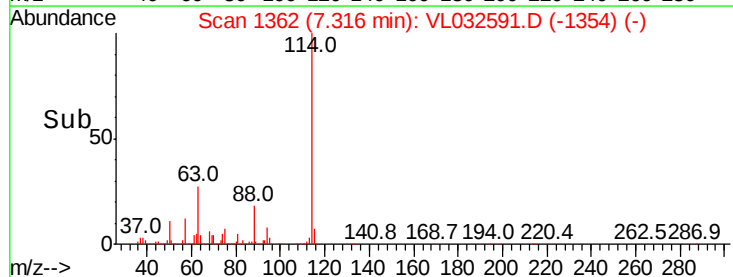
63 100

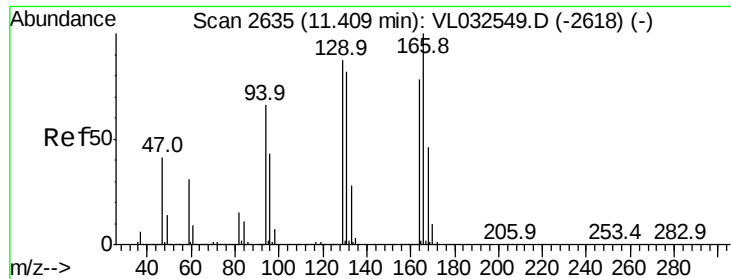
41 0.1 55.4 83.0#

62 17.4 55.4 83.0#



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: 12.434 ppbv

RT: 11.41 min Scan# 2634

Delta R.T. -0.02 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 913839

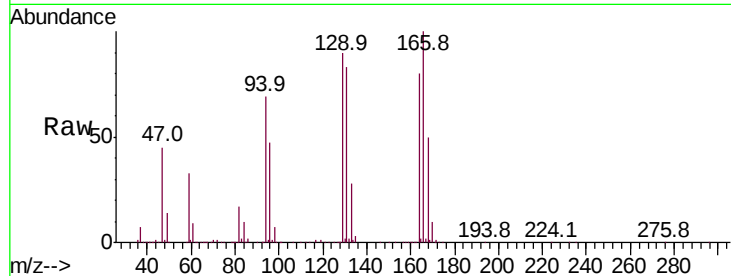
Ion Ratio Lower Upper

164 100

166 125.7 100.6 150.8

129 113.1 89.9 134.9

131 104.6 85.9 128.9

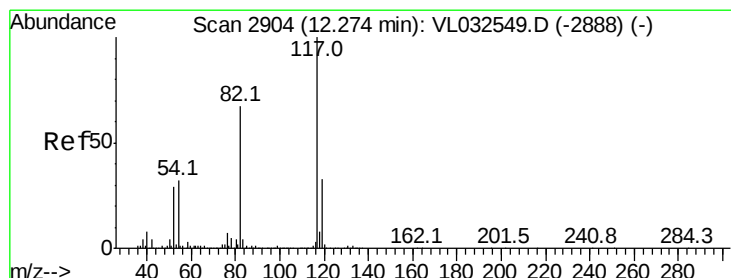
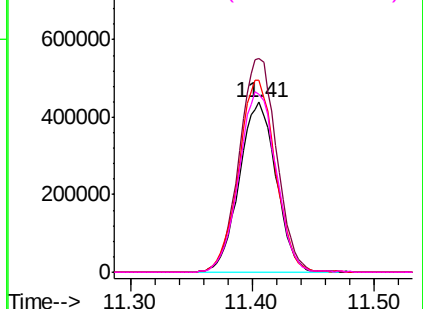
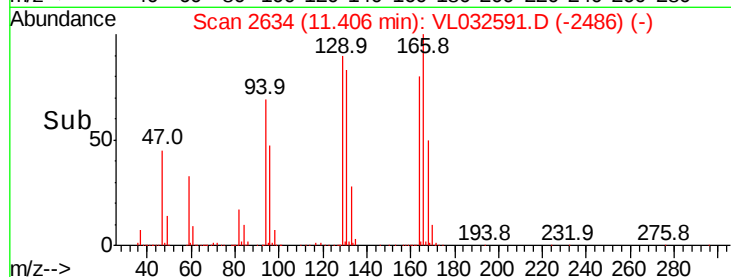


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

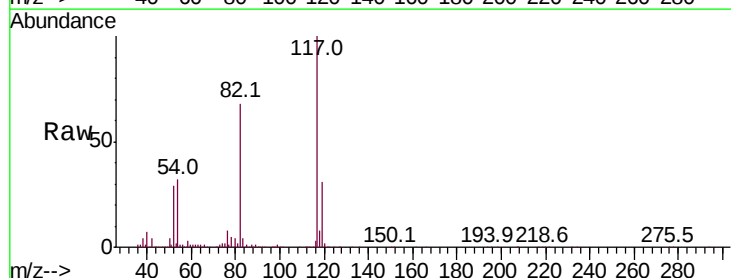
Tgt Ion:117 Resp: 2857931

Ion Ratio Lower Upper

117 100

82 67.2 53.0 79.6

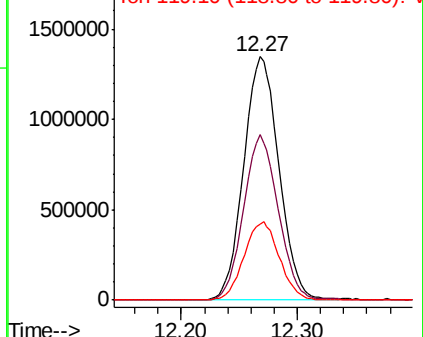
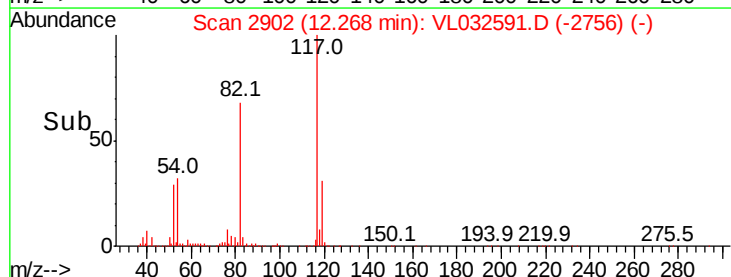
119 32.4 45.9 68.9#

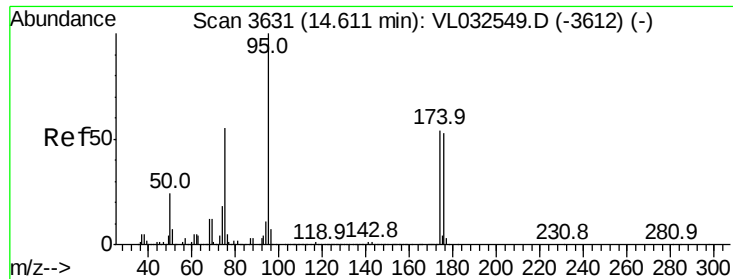


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.294 ppbv

RT: 14.61 min Scan# 3629

Delta R.T. -0.03 min

Lab File: VL032591.D

Acq: 3 Oct 2018 22:35

Instrument :

MSVOA_L

ClientSampleId :

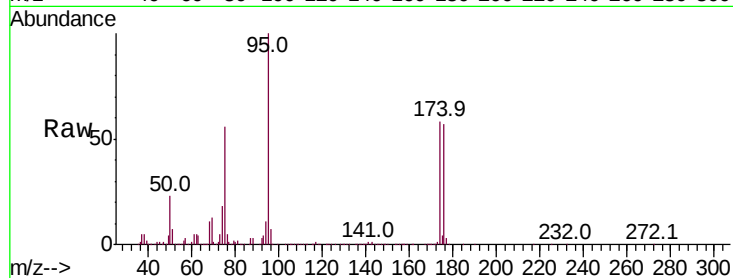
Tot Ion: 95 Resp: 2003114

Ion Ratio Lower Upper

95 100

174 59.4 46.3 69.5

175 4.2 3.4 5.0



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

