

Data File : VL032398.D
Acq On : 17 Aug 2018 5:00
Operator : SY/AP
Sample : J4472-01DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1DL2

Quant Time: Aug 17 06:33:58 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	5.81	49	1750104	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3411832	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3325997	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2540181	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

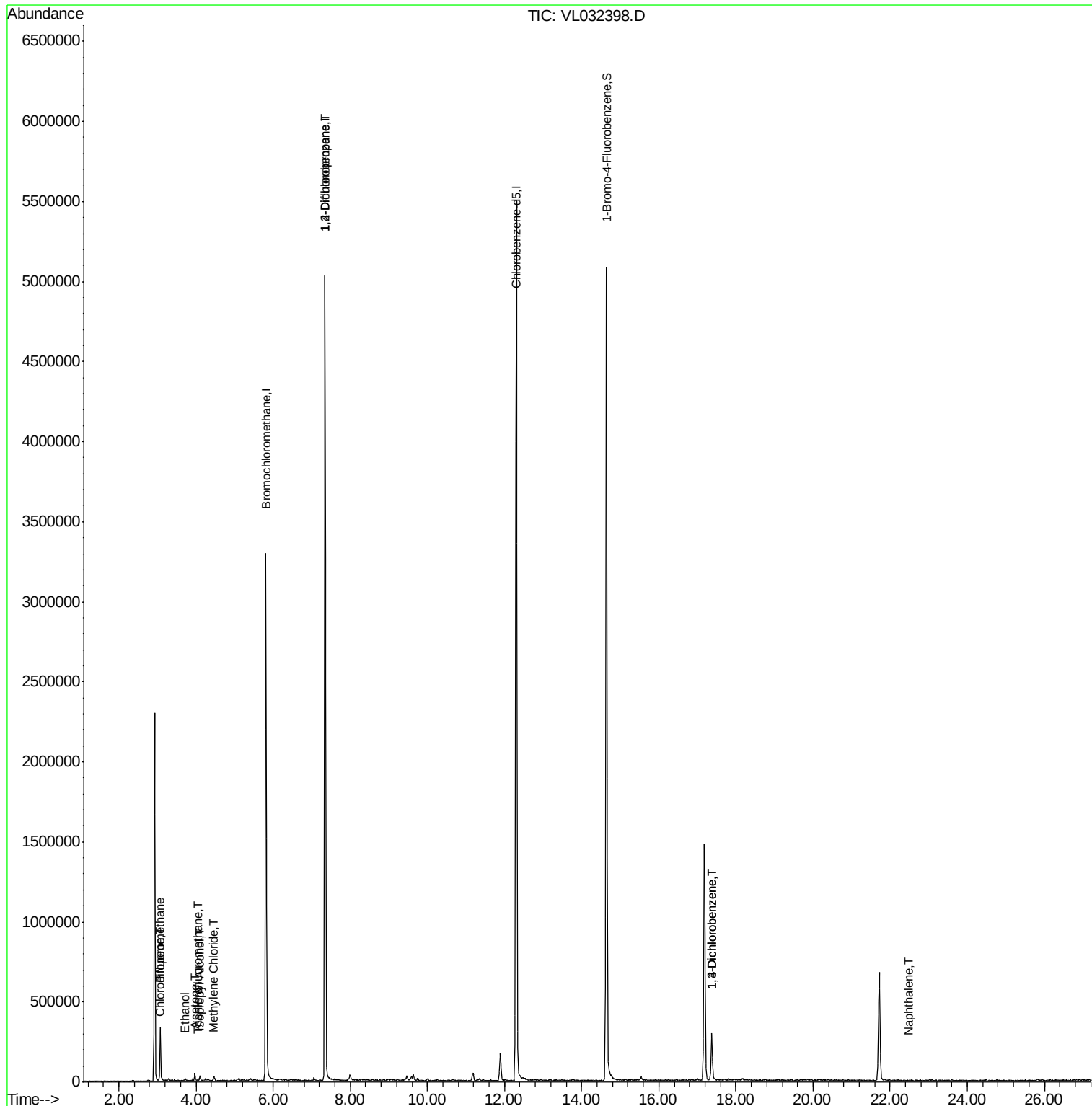
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	5186	Below Cal		91
3) Chlorodifluoromethane	3.05	51	8288	0.051	ppbv	100
9) Propene	3.07	41	130681	1.883	ppbv	99
11) Trichlorofluoromethane	4.05	101	7372	0.038	ppbv	90
13) Ethanol	3.71	45	6577	0.369	ppbv	84
15) Acetone	3.97	43	39913	0.240	ppbv	96
19) Isopropyl Alcohol	4.09	45	8315	0.074	ppbv #	47
20) Methylene Chloride	4.45	84	3607	0.057	ppbv #	72
39) 1,2-Dichloropropane	7.35	63	972333	8.047	ppbv #	25
75) 1,3-Dichlorobenzene	17.37	146	141785	0.619	ppbv	97
76) 1,4-Dichlorobenzene	17.37	146	141785	0.653	ppbv	96
79) Naphthalene	22.48	128	224	0.328	ppbv #	57

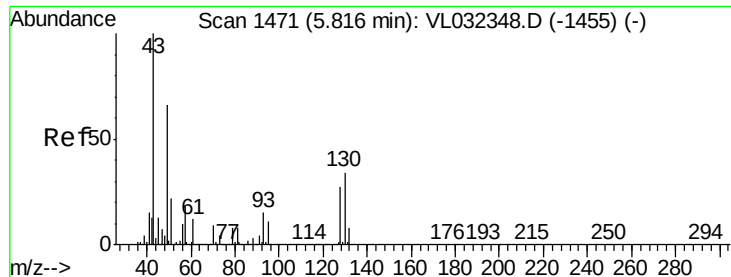
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032398.D

Acq: 17 Aug 2018 5:00

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL2

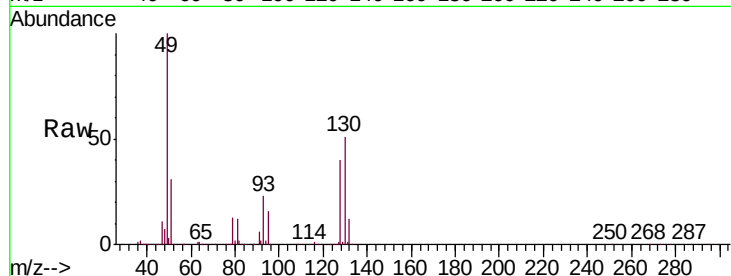
Tgt Ion: 49 Resp: 1750104

Ion Ratio Lower Upper

49 100

128 40.8 20.5 61.6

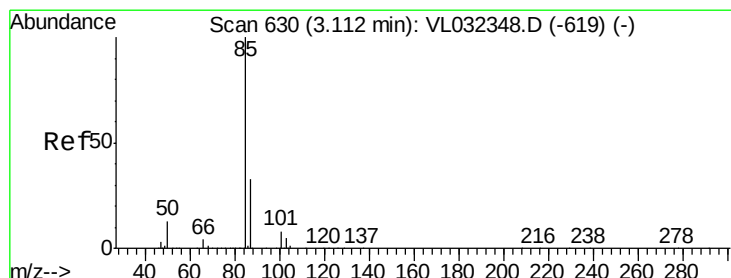
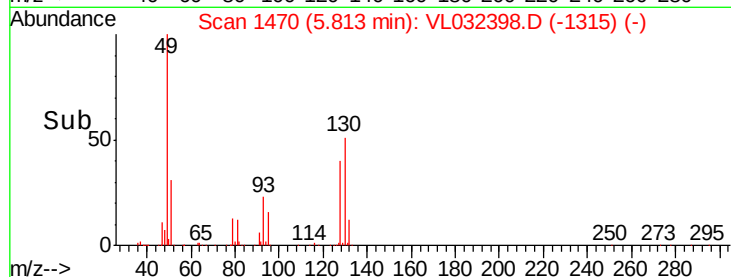
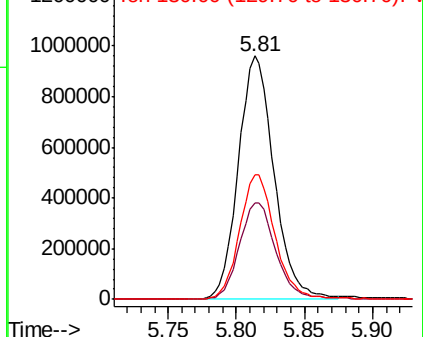
130 51.7 26.2 78.5



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



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032398.D

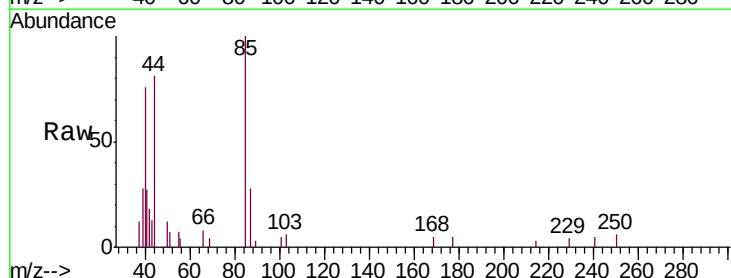
Acq: 17 Aug 2018 5:00

Tgt Ion: 85 Resp: 5186

Ion Ratio Lower Upper

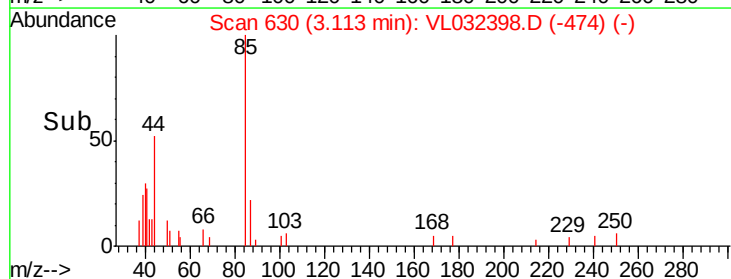
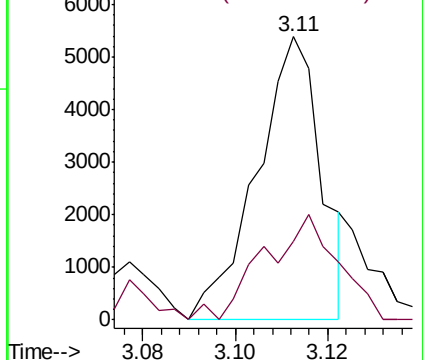
85 100

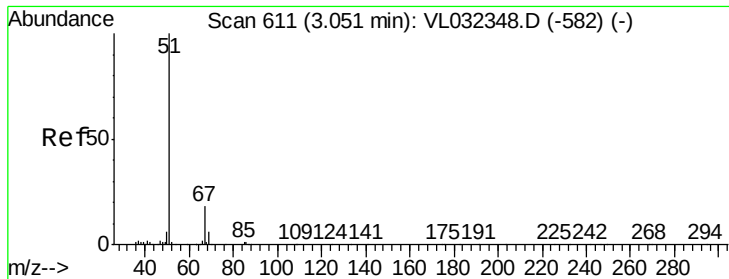
87 27.6 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.051 ppbv

RT: 3.05 min Scan# 611

Delta R.T. 0.00 min

Lab File: VL032398.D

Acq: 17 Aug 2018 5:00

Instrument :

MSVOA_L

ClientSampleId :

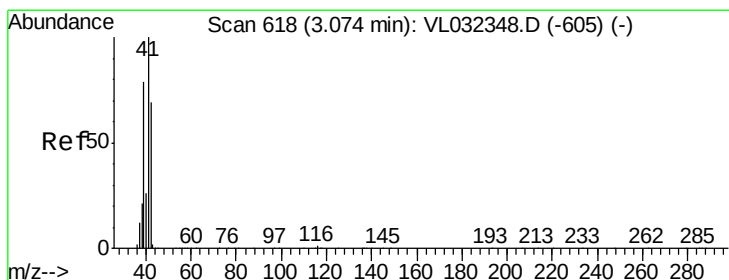
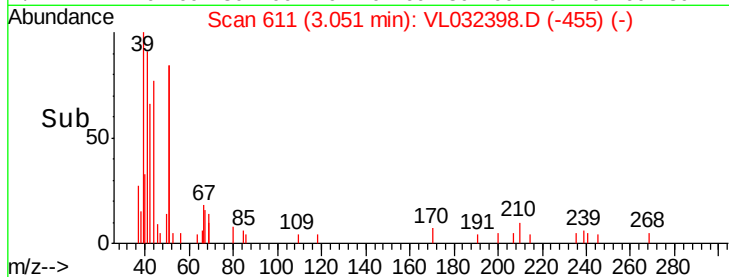
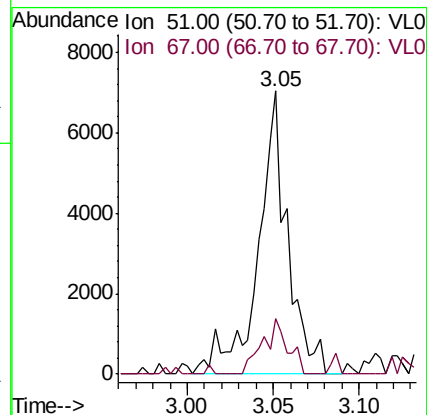
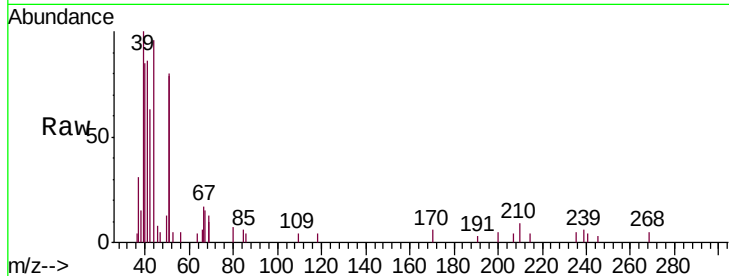
SS-1DL2

Tgt Ion: 51 Resp: 8288

Ion Ratio Lower Upper

51 100

67 17.3 13.7 20.5



#9

Propene

Concen: 1.883 ppbv

RT: 3.07 min Scan# 618

Delta R.T. 0.00 min

Lab File: VL032398.D

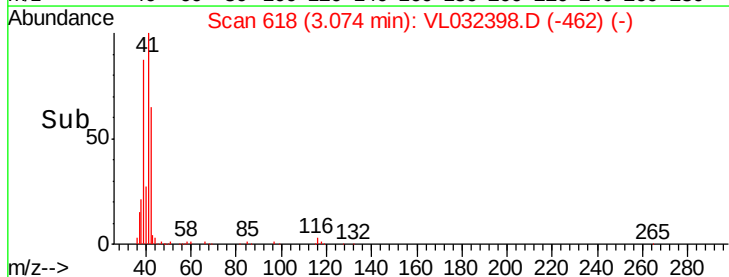
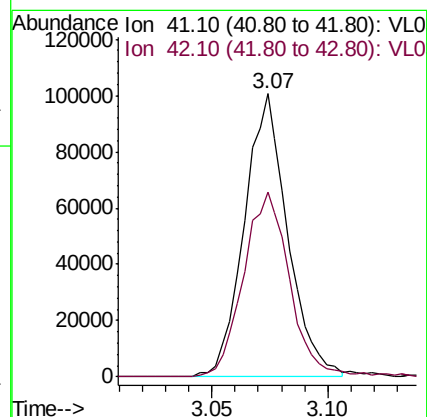
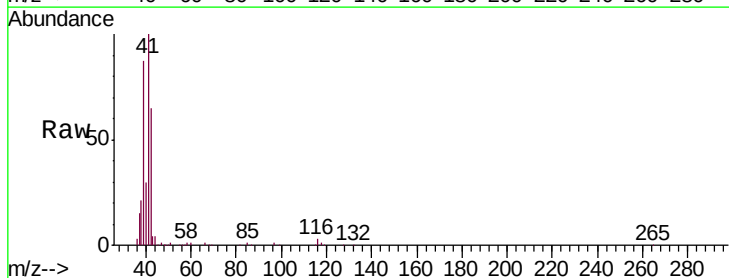
Acq: 17 Aug 2018 5:00

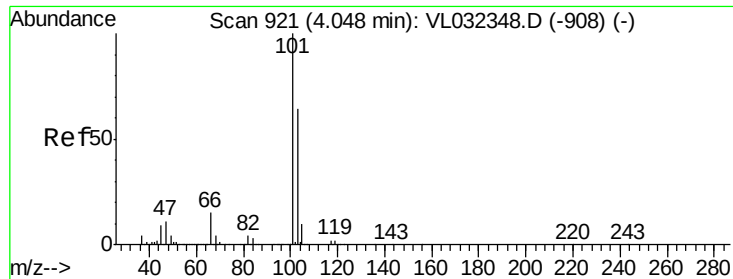
Tgt Ion: 41 Resp: 130681

Ion Ratio Lower Upper

41 100

42 70.9 55.9 83.9

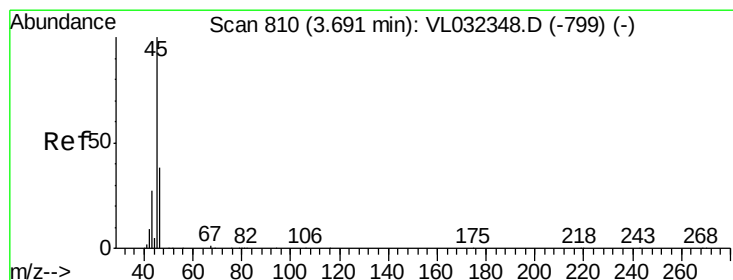
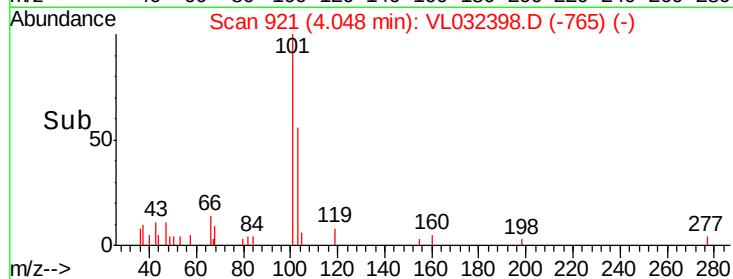
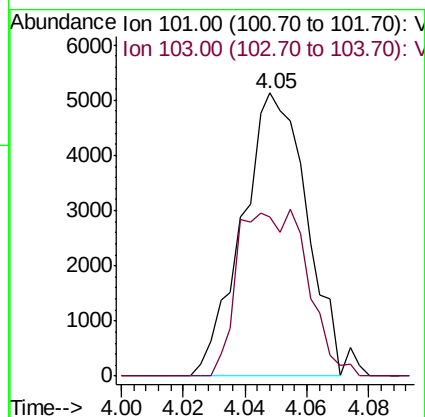
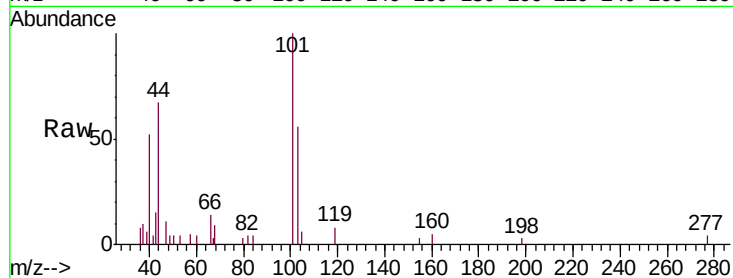




#11
 Trichlorofluoromethane
 Concen: 0.038 ppbv
 RT: 4.05 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VL032398.D
 Acq: 17 Aug 2018 5:00

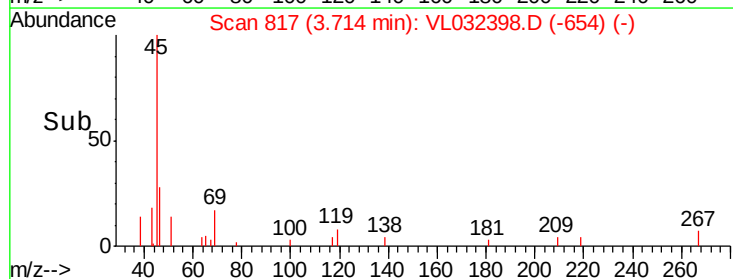
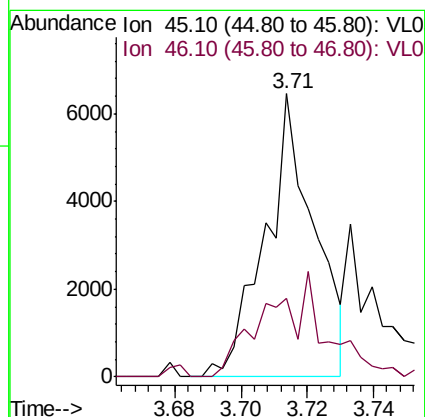
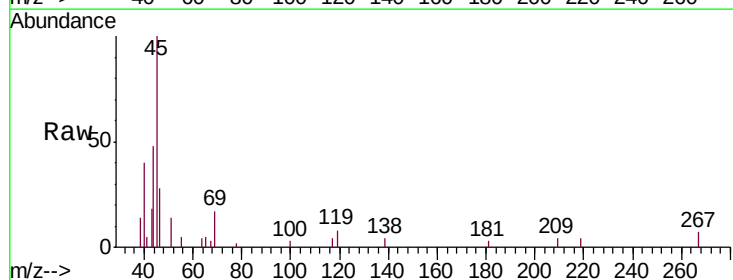
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL2

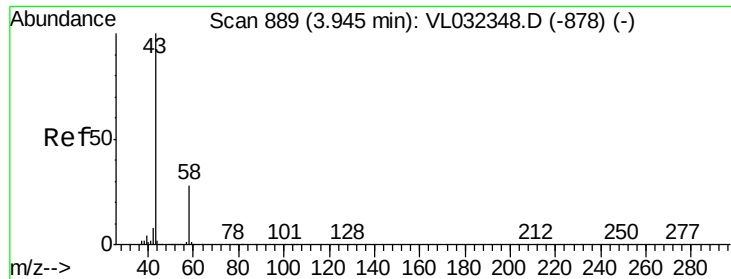
Tgt Ion: 101 Resp: 7372
 Ion Ratio Lower Upper
 101 100
 103 56.2 51.4 77.0



#13
 Ethanol
 Concen: 0.369 ppbv
 RT: 3.71 min Scan# 817
 Delta R.T. 0.02 min
 Lab File: VL032398.D
 Acq: 17 Aug 2018 5:00

Tgt Ion: 45 Resp: 6577
 Ion Ratio Lower Upper
 45 100
 46 49.0 15.6 62.4





#15

Acetone

Concen: 0.240 ppbv

RT: 3.97 min Scan# 897

Delta R.T. 0.03 min

Lab File: VL032398.D

Acq: 17 Aug 2018 5:00

Instrument :

MSVOA_L

ClientSampleId :

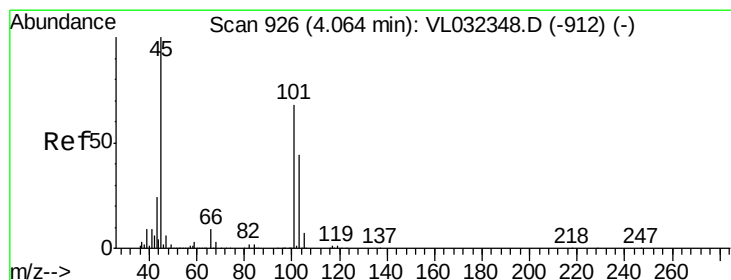
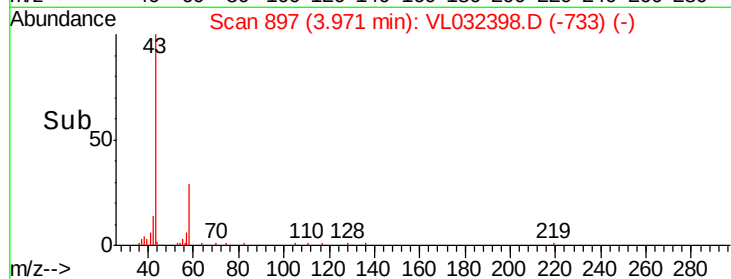
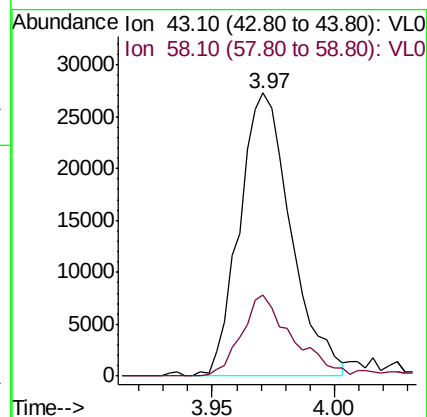
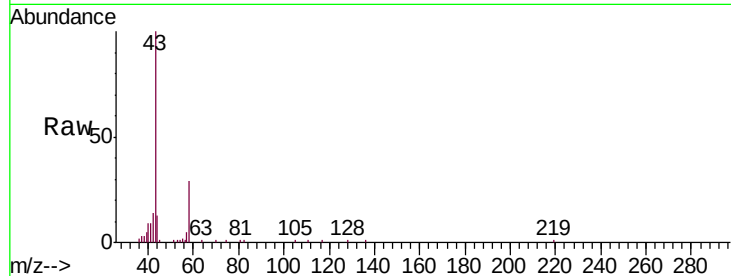
SS-1DL2

Tgt Ion: 43 Resp: 39913

Ion Ratio Lower Upper

43 100

58 30.1 22.4 33.6



#19

Isopropyl Alcohol

Concen: 0.074 ppbv

RT: 4.09 min Scan# 934

Delta R.T. 0.03 min

Lab File: VL032398.D

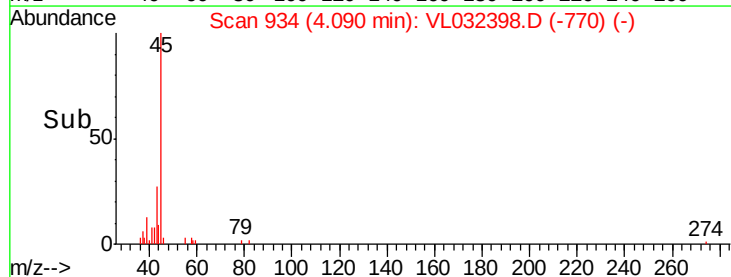
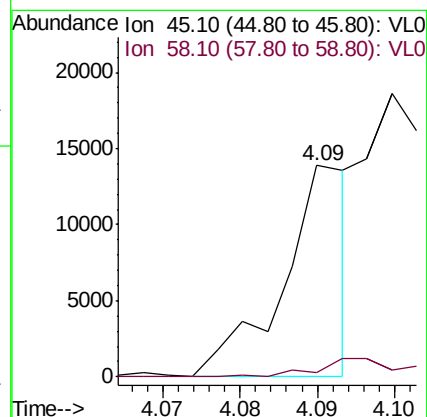
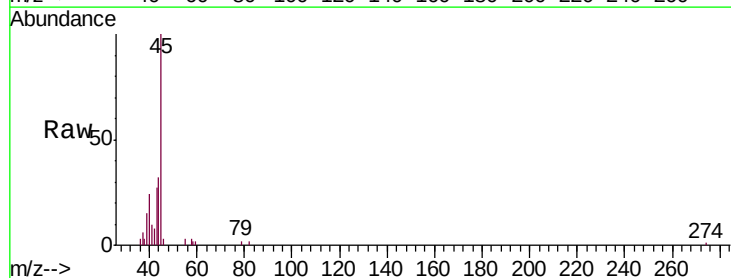
Acq: 17 Aug 2018 5:00

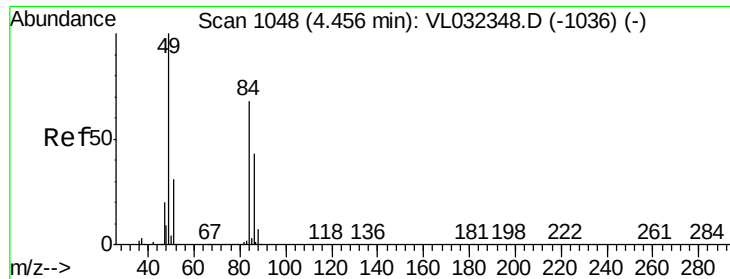
Tgt Ion: 45 Resp: 8315

Ion Ratio Lower Upper

45 100

58 21.2 1.4 2.0#

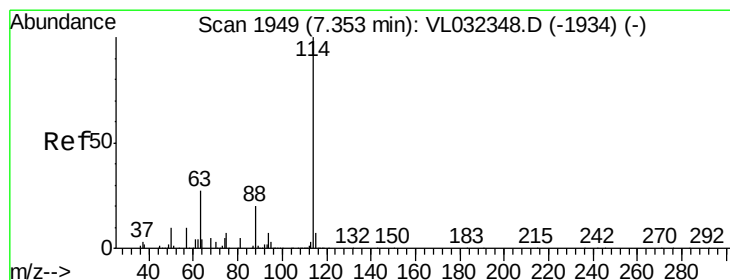
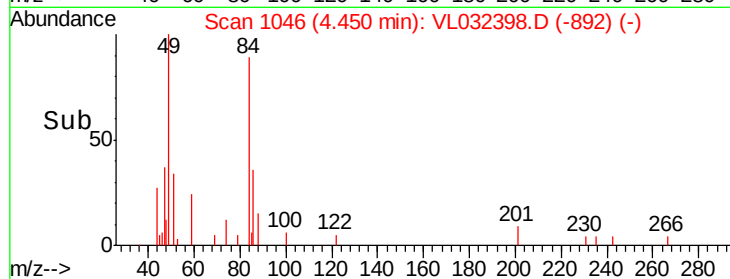
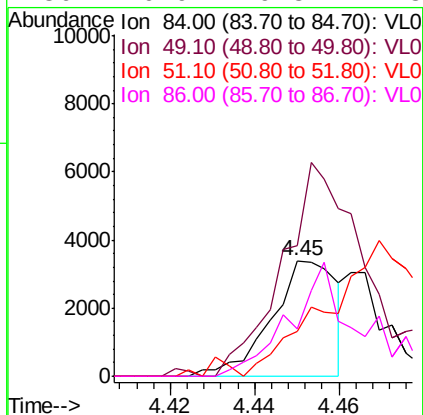
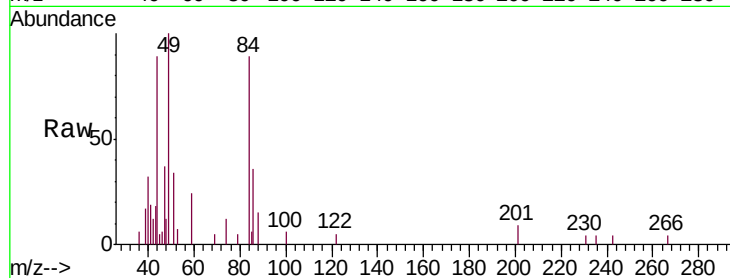




#20
Methylene Chloride
Concen: 0.057 ppbv
RT: 4.45 min Scan# 1046
Delta R.T. -0.01 min
Lab File: VL032398.D
Acq: 17 Aug 2018 5:00

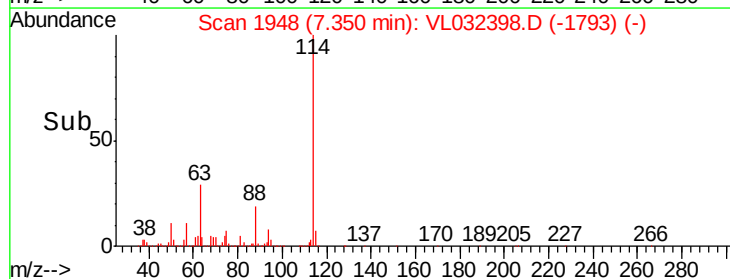
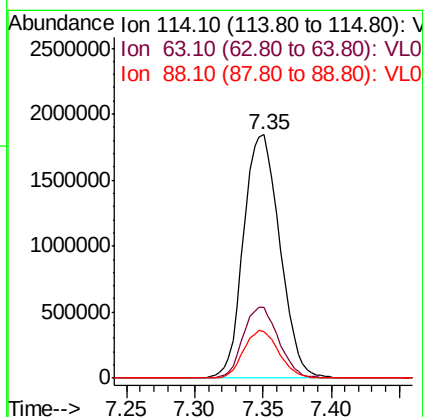
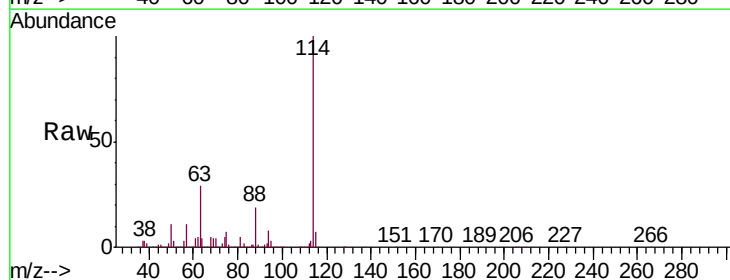
Instrument :
MSVOA_L
ClientSampleId :
SS-1DL2

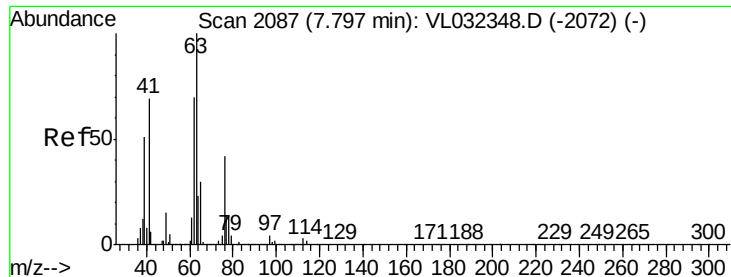
Tgt Ion: 84 Resp: 3607
Ion Ratio Lower Upper
84 100
49 108.2 117.3 175.9#
51 33.1 36.6 55.0#
86 40.9 49.8 74.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.35 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VL032398.D
Acq: 17 Aug 2018 5:00

Tgt Ion: 114 Resp: 3411832
Ion Ratio Lower Upper
114 100
63 28.6 22.0 33.0
88 19.1 15.3 22.9





#39

1,2-Dichloropropane

Concen: 8.047 ppbv

RT: 7.35 min Scan# 1947

Delta R.T. -0.45 min

Lab File: VL032398.D

Acq: 17 Aug 2018 5:00

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL2

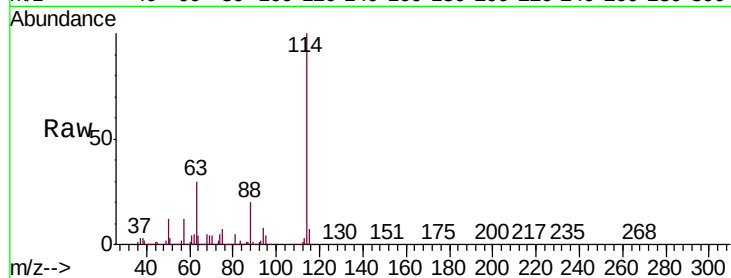
Tgt Ion: 63 Resp: 972333

Ion Ratio Lower Upper

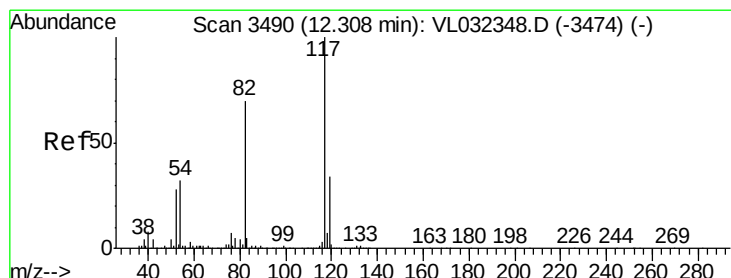
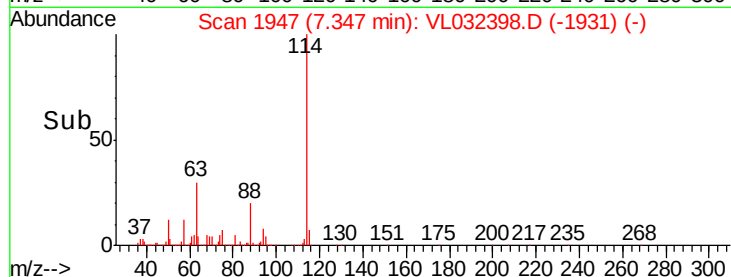
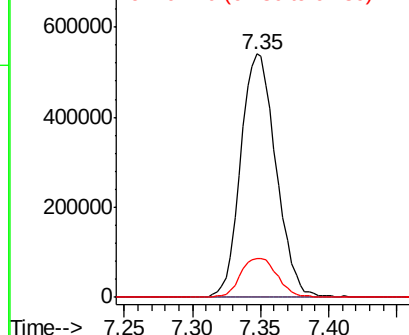
63 100

41 0.2 55.5 83.3#

62 16.0 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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.31 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VL032398.D

Acq: 17 Aug 2018 5:00

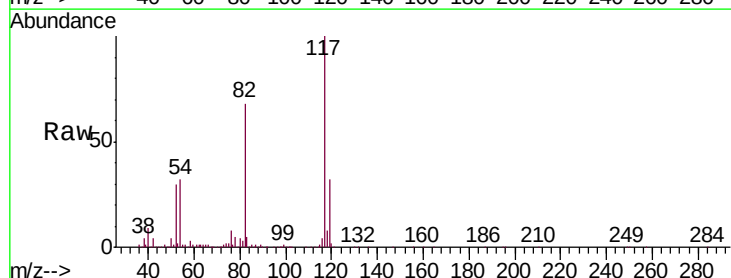
Tgt Ion: 117 Resp: 3325997

Ion Ratio Lower Upper

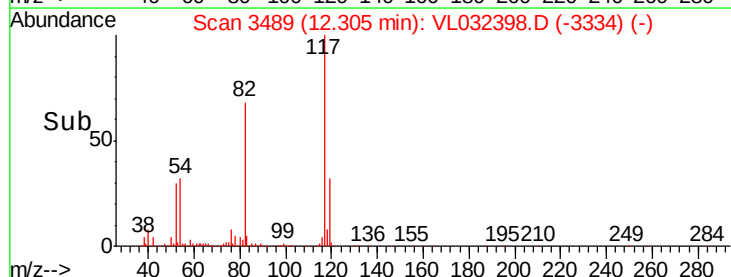
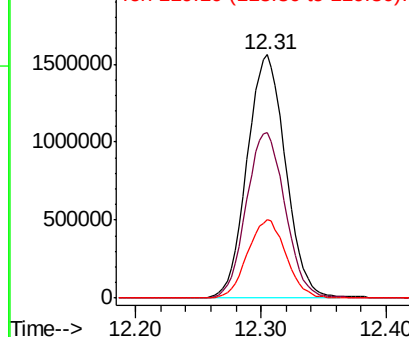
117 100

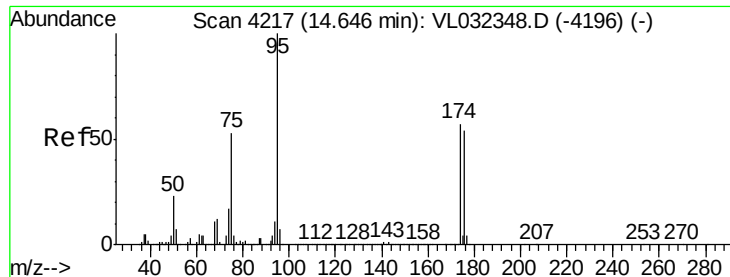
82 69.0 55.1 82.7

119 32.4 46.0 69.0#



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: 10.011 ppbv

RT: 14.64 min Scan# 4215

Delta R.T. -0.01 min

Lab File: VL032398.D

Acq: 17 Aug 2018 5:00

Instrument :

MSVOA_L

ClientSampleId :

SS-1DL2

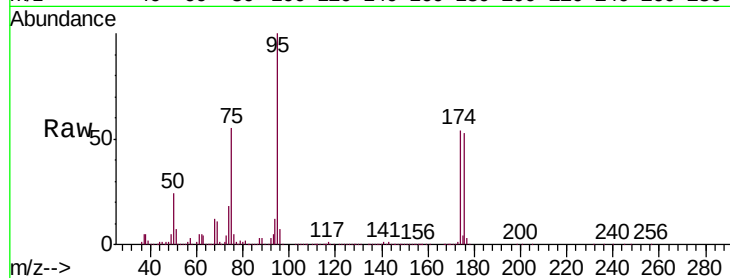
Tgt Ion: 95 Resp: 2540181

Ion Ratio Lower Upper

95 100

174 57.0 46.2 69.4

175 4.0 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL032348.D (-4196) (-)

Ion 174.00 (173.70 to 174.70): VL032348.D (-4196) (-)

Ion 175.00 (174.70 to 175.70): VL032348.D (-4196) (-)

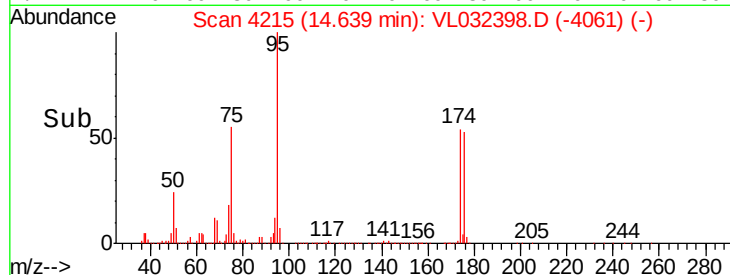
14.64

1000000

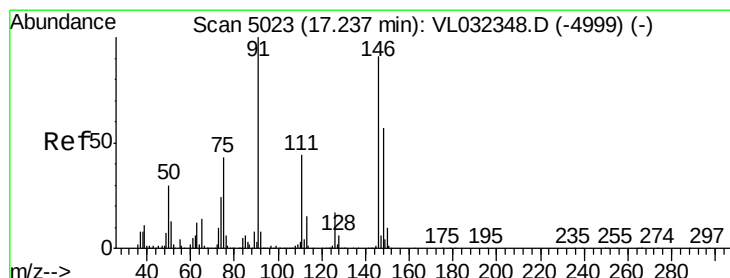
500000

0

14.60 14.70



Time-->



#75

1,3-Dichlorobenzene

Concen: 0.619 ppbv

RT: 17.37 min Scan# 5065

Delta R.T. 0.14 min

Lab File: VL032398.D

Acq: 17 Aug 2018 5:00

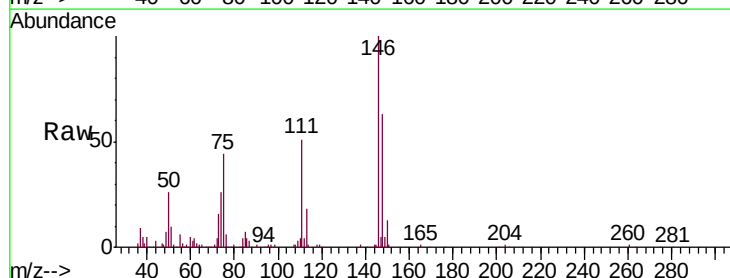
Tgt Ion: 146 Resp: 141785

Ion Ratio Lower Upper

146 100

111 49.4 24.6 73.8

148 67.9 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): VL032348.D (-4999) (-)

Ion 111.10 (110.80 to 111.80): VL032348.D (-4999) (-)

Ion 148.00 (147.70 to 148.70): VL032348.D (-4999) (-)

17.37

80000

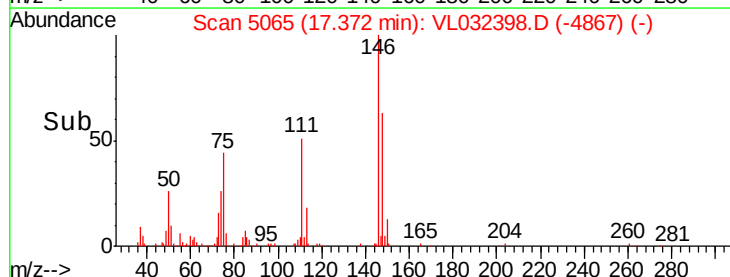
60000

40000

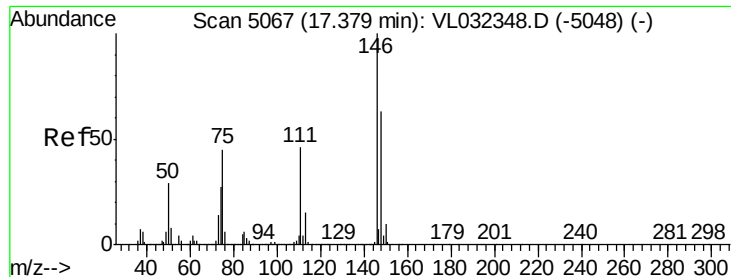
20000

0

17.30 17.35 17.40 17.45



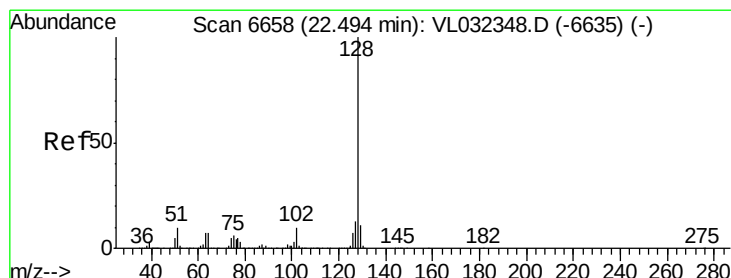
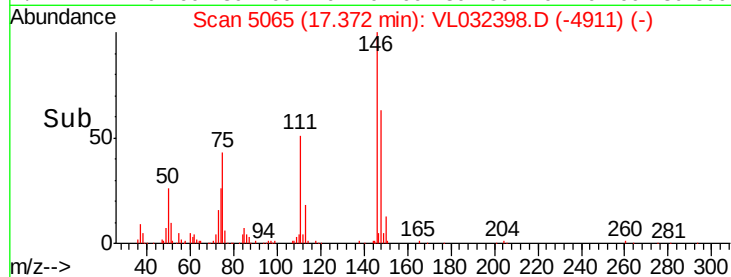
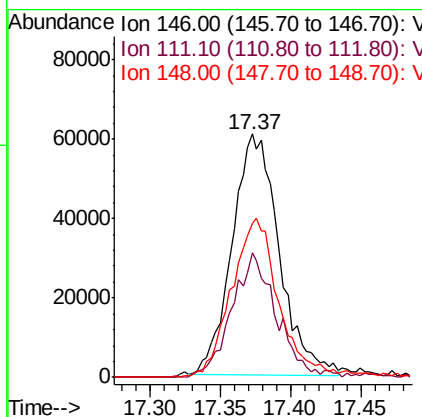
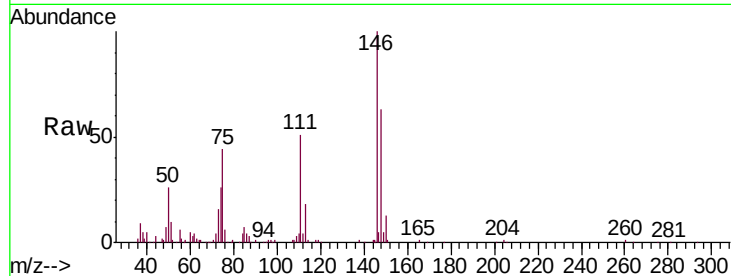
Time-->



#76
 1,4-Dichlorobenzene
 Concen: 0.653 ppbv
 RT: 17.37 min Scan# 5065
 Delta R.T. -0.01 min
 Lab File: VL032398.D
 Acq: 17 Aug 2018 5:00

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DL2

Tgt Ion:146 Resp: 141785
 Ion Ratio Lower Upper
 146 100
 111 49.4 23.8 71.4
 148 67.9 32.2 96.6



#79
 Naphthalene
 Concen: 0.328 ppbv
 RT: 22.48 min Scan# 6654
 Delta R.T. -0.01 min
 Lab File: VL032398.D
 Acq: 17 Aug 2018 5:00

Tgt Ion:128 Resp: 224
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 31.8 8.6 13.0#

