

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032590.D
 Acq On : 3 Oct 2018 21:57
 Operator : SY/AP
 Sample : J5094-11DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 04 09:57:04 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	1029896	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2596183	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2804657	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.60	95	1989860	9.41	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%	

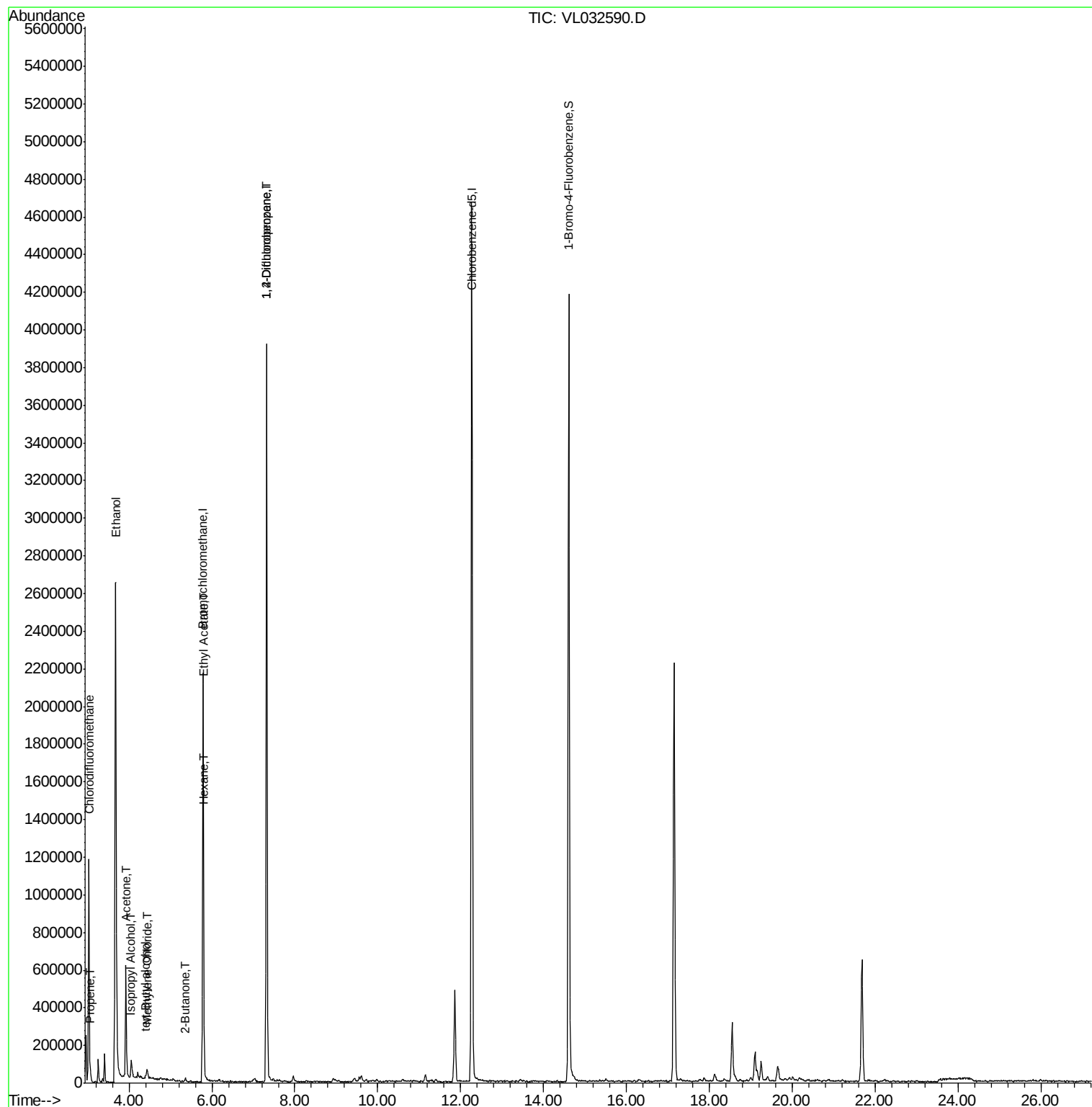
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.03	51	1118123	13.055	ppbv	97
9) Propene	3.07	41	14078	0.379	ppbv #	80
13) Ethanol	3.68	45	3442452	308.196	ppbv	96
15) Acetone	3.92	43	545171	6.031	ppbv	100
17) tert-Butyl alcohol	4.40	59	3659	0.322	ppbv #	100
19) Isopropyl Alcohol	4.05	45	111214	1.766	ppbv #	94
20) Methylene Chloride	4.43	84	14491	0.331	ppbv	84
25) Ethyl Acetate	5.80	43	21293	0.097	ppbv #	86
26) Hexane	5.81	57	6493	0.066	ppbv #	44
34) 2-Butanone	5.35	43	11197	0.072	ppbv #	54
39) 1,2-Dichloropropane	7.32	63	697375	7.376	ppbv #	26

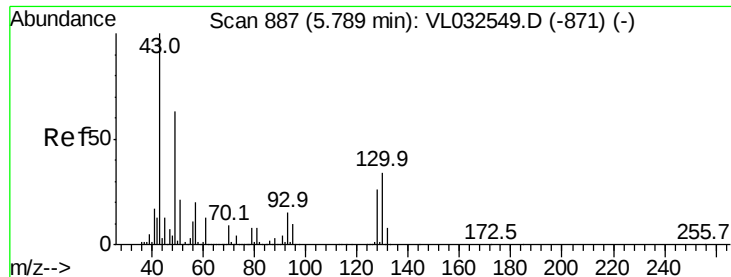
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampleId :

Quant Time: Oct 04 09:57:04 2018
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :
MSVOA_L
ClientSampled :

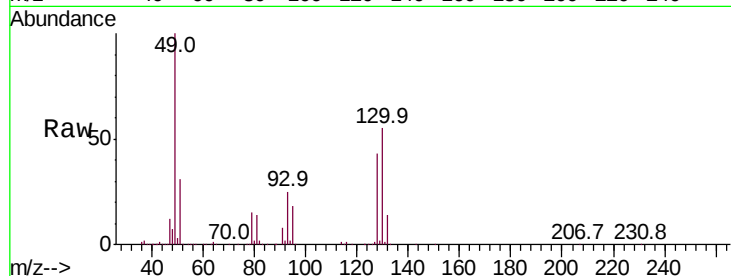
Tot Ion: 49 Resp: 1029896

Ion Ratio Lower Upper

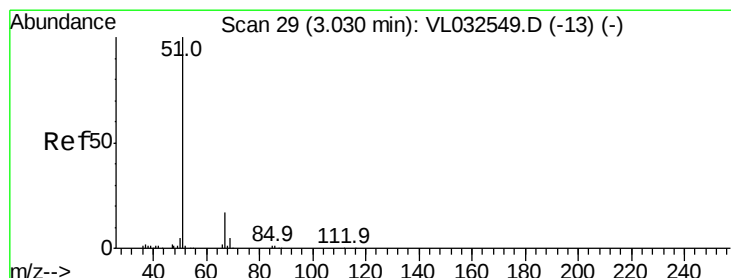
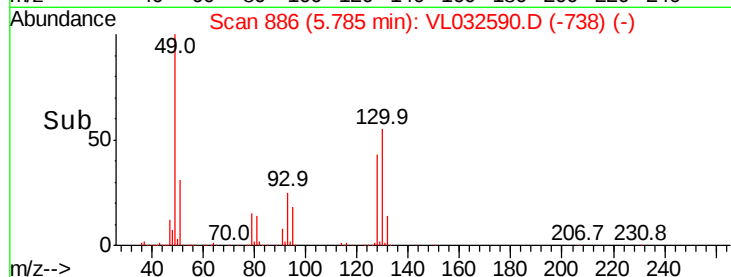
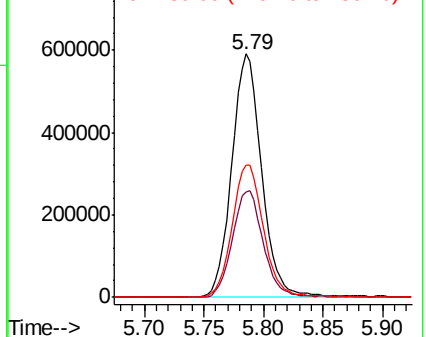
49 100

128 45.7 20.7 62.1

130 57.4 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: 13.055 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032590.D

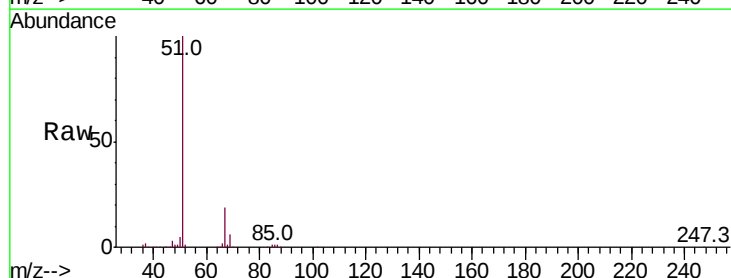
Acq: 3 Oct 2018 21:57

Tgt Ion: 51 Resp: 1118123

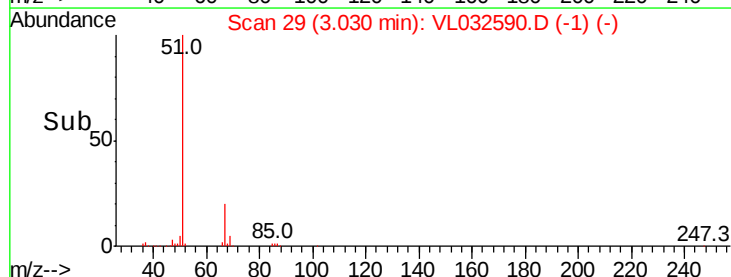
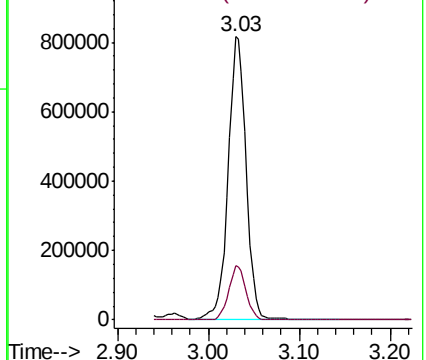
Ion Ratio Lower Upper

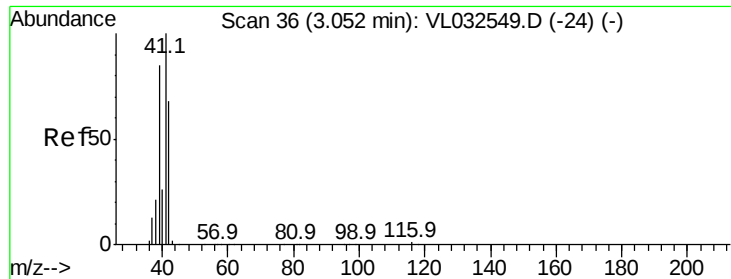
51 100

67 18.4 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: 0.379 ppbv

RT: 3.07 min Scan# 41

Delta R.T. 0.00 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :

MSVOA_L

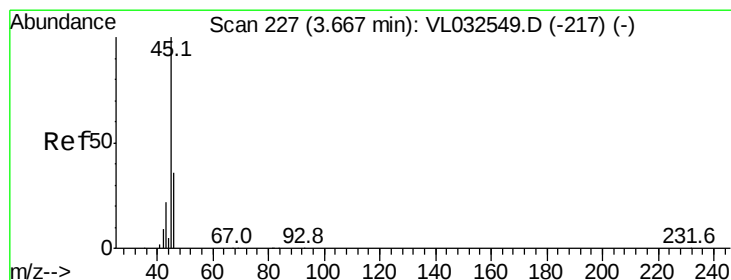
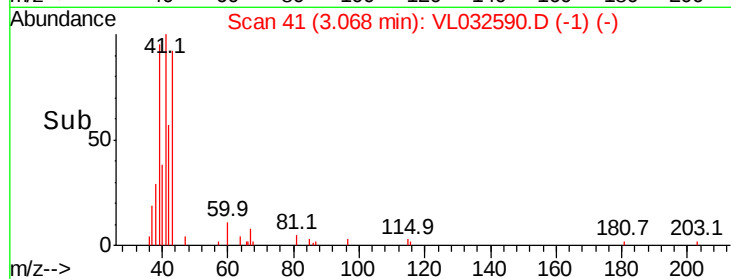
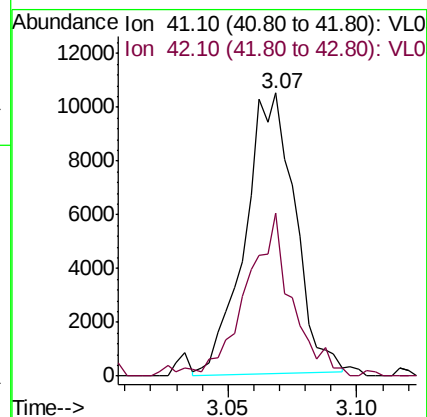
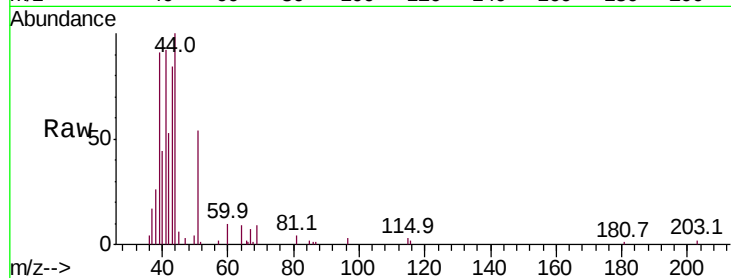
ClientSampleId :

Tot Ion: 41 Resp: 14078

Ion Ratio Lower Upper

41 100

42 54.3 56.6 84.8#



#13

Ethanol

Concen: 308.196 ppbv

RT: 3.68 min Scan# 230

Delta R.T. -0.01 min

Lab File: VL032590.D

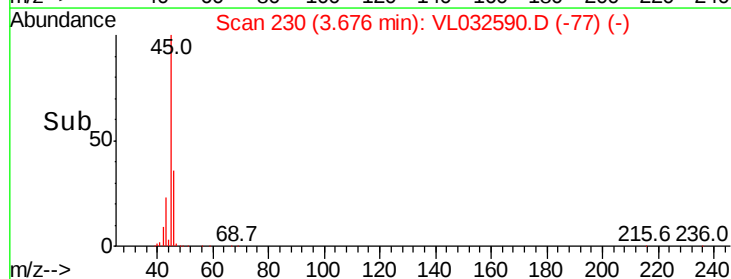
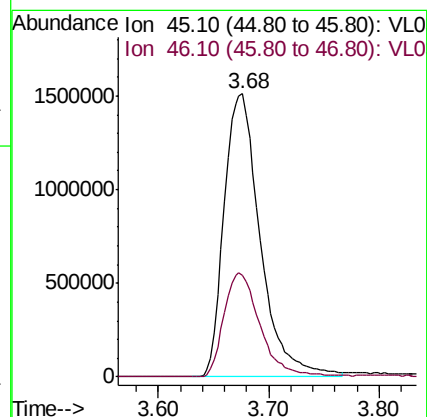
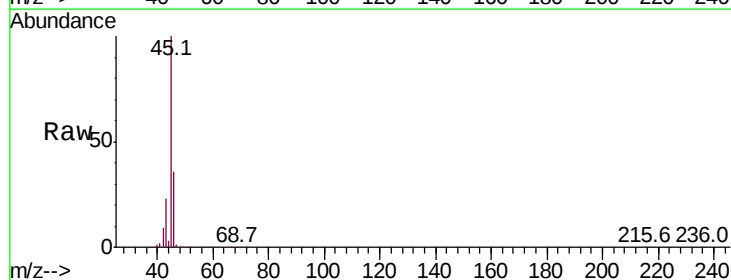
Acq: 3 Oct 2018 21:57

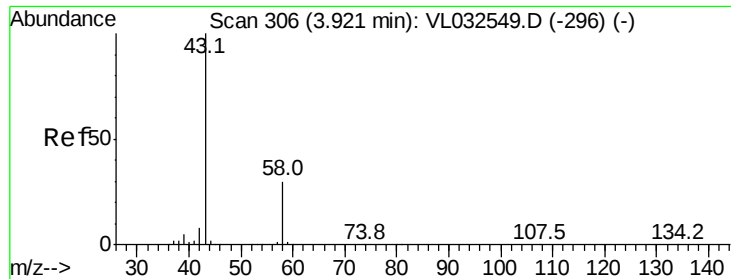
Tgt Ion: 45 Resp: 3442452

Ion Ratio Lower Upper

45 100

46 38.1 14.2 56.8





#15

Acetone

Concen: 6.031 ppbv

RT: 3.92 min Scan# 307

Delta R.T. -0.01 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :

MSVOA_L

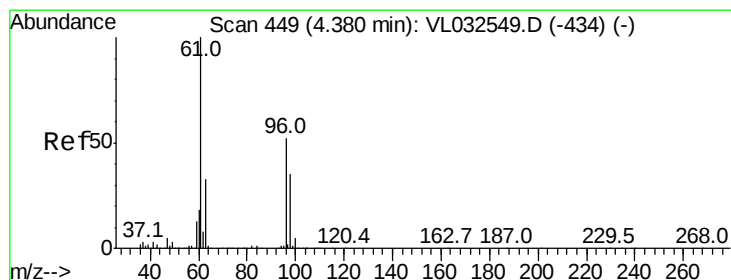
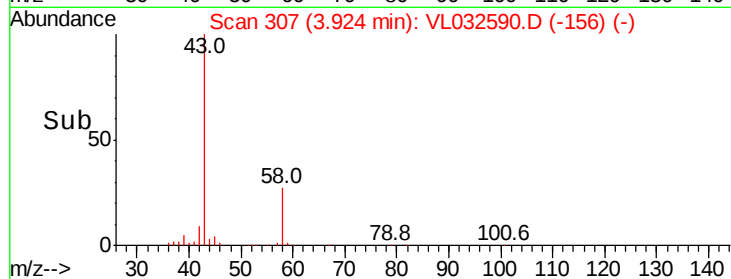
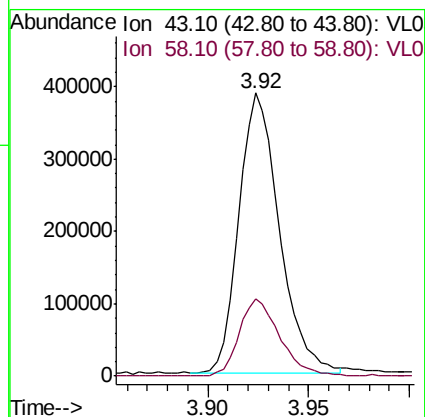
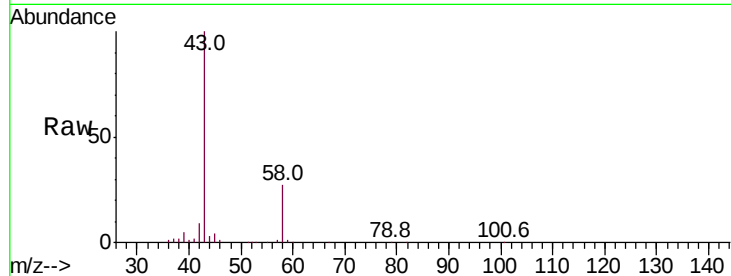
ClientSampleId :

Tot Ion: 43 Resp: 545171

Ion Ratio Lower Upper

43 100

58 28.2 22.6 33.8



#17

tert-Butyl alcohol

Concen: 0.322 ppbv

RT: 4.40 min Scan# 455

Delta R.T. -0.01 min

Lab File: VL032590.D

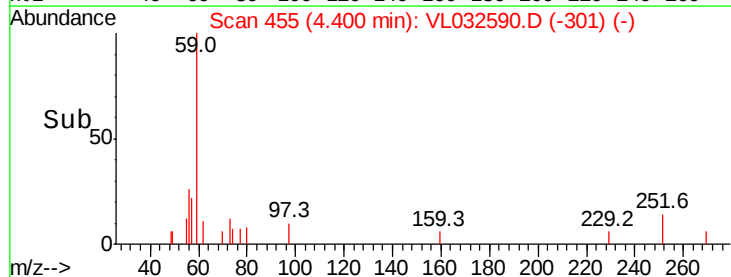
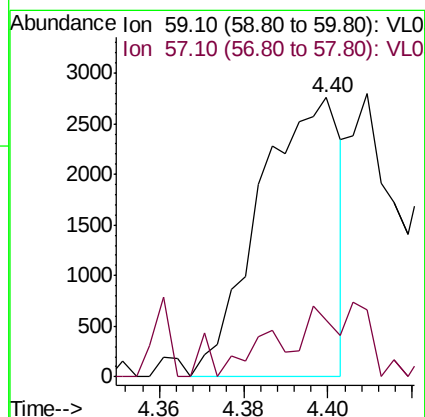
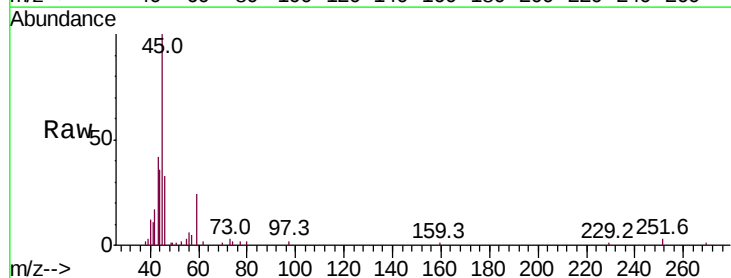
Acq: 3 Oct 2018 21:57

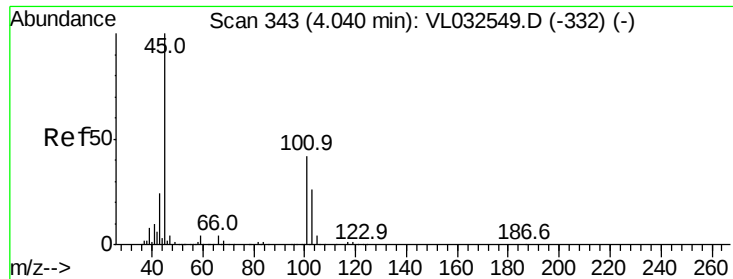
Tgt Ion: 59 Resp: 3659

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0





#19

Isopropyl Alcohol

Concen: 1.766 ppbv

RT: 4.05 min Scan# 347

Delta R.T. -0.01 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :

MSVOA_L

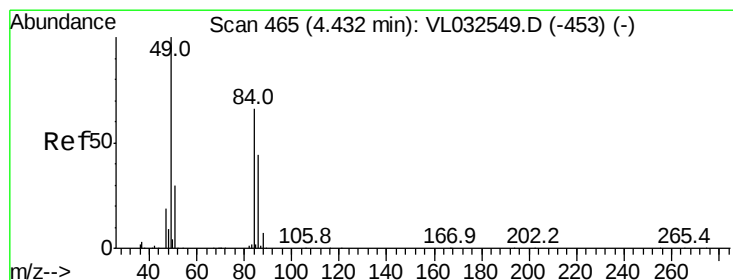
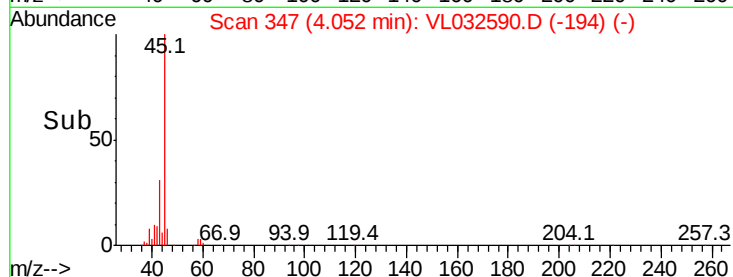
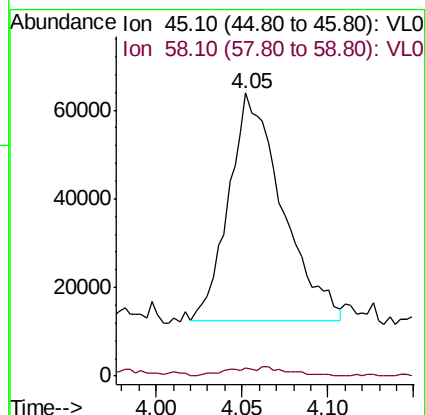
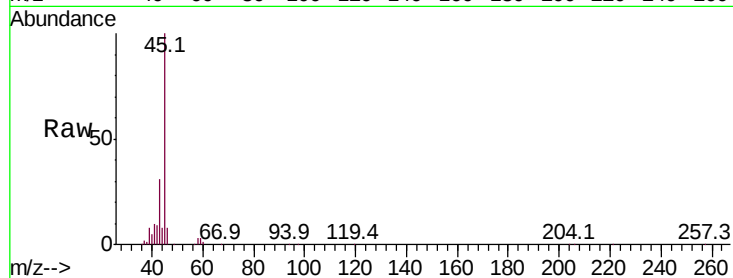
ClientSampleId :

Tot Ion: 45 Resp: 111214

Ion Ratio Lower Upper

45 100

58 4.5 2.0 3.0#



#20

Methylene Chloride

Concen: 0.331 ppbv

RT: 4.43 min Scan# 465

Delta R.T. -0.02 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Tgt Ion: 84 Resp: 14491

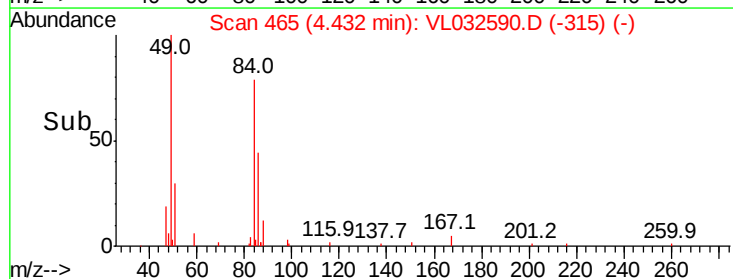
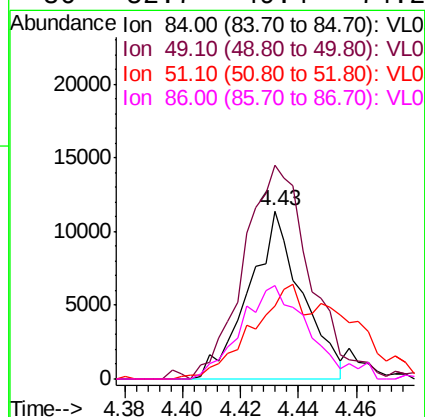
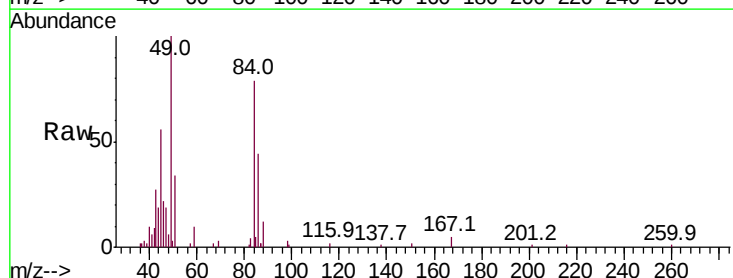
Ion Ratio Lower Upper

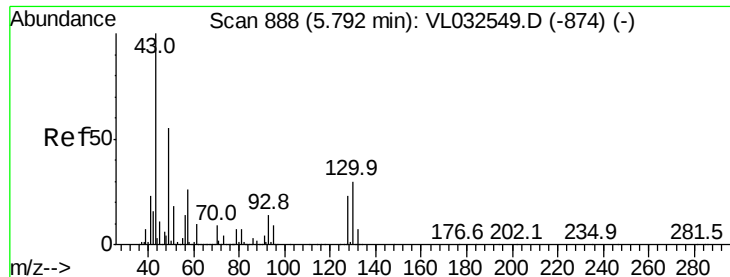
84 100

49 123.1 119.1 178.7

51 38.8 35.2 52.8

86 52.7 49.4 74.2





#25

Ethyl Acetate

Concen: 0.097 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

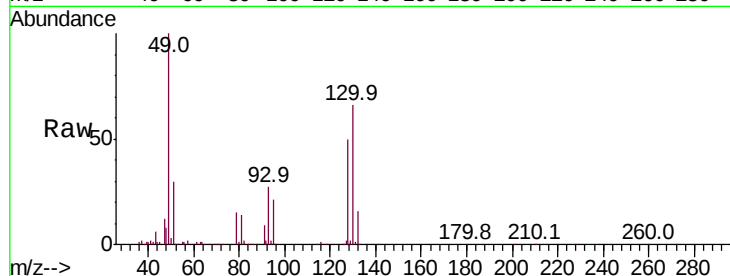
Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 21293

Ion	Ratio	Lower	Upper
43	100		
45	18.4	8.0	12.0#
61	13.9	7.6	11.4#
70	9.4	5.8	8.8#



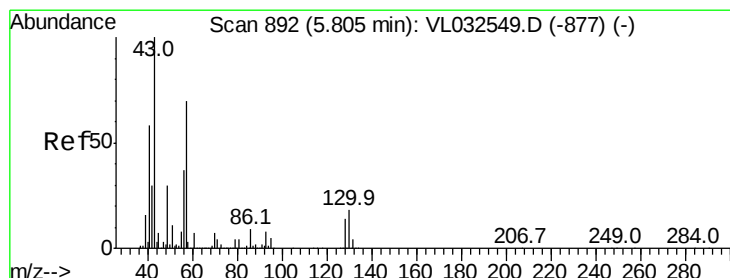
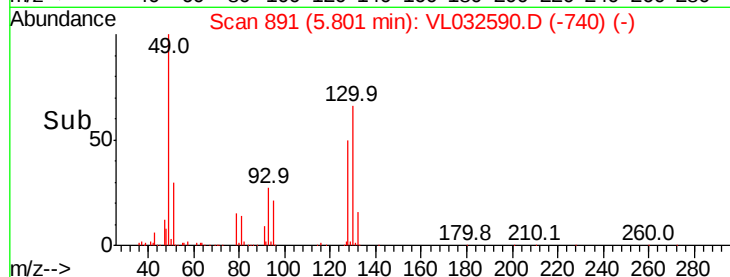
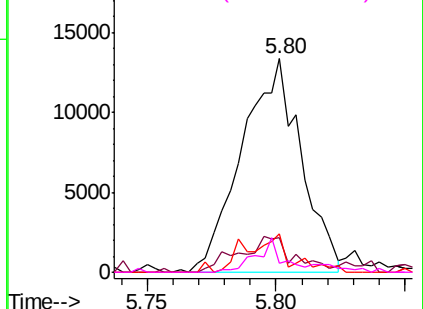
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.066 ppbv

RT: 5.81 min Scan# 893

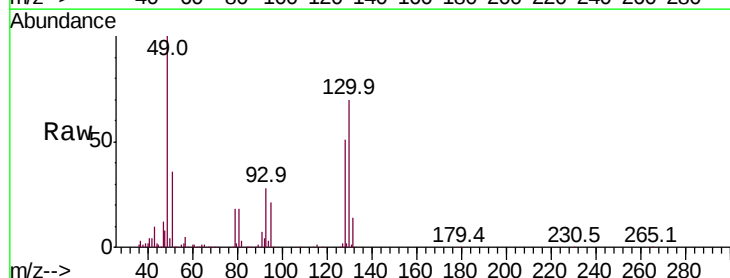
Delta R.T. -0.02 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Tgt Ion: 57 Resp: 6493

Ion	Ratio	Lower	Upper
57	100		
41	105.7	69.0	103.4#
43	343.2	172.1	258.1#
56	62.1	42.2	63.2



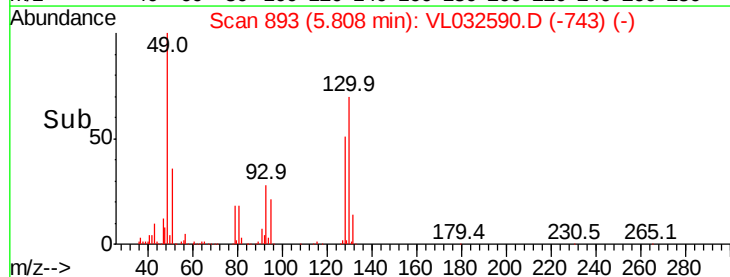
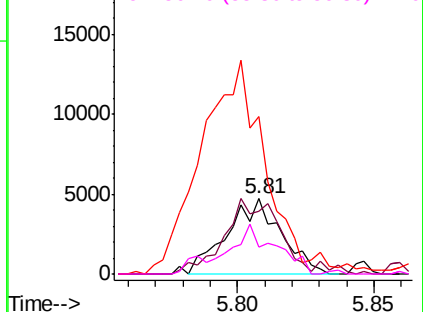
Abundance

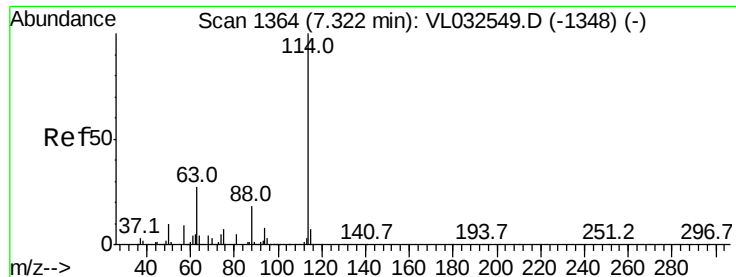
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.03 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :

MSVOA_L

ClientSampleId :

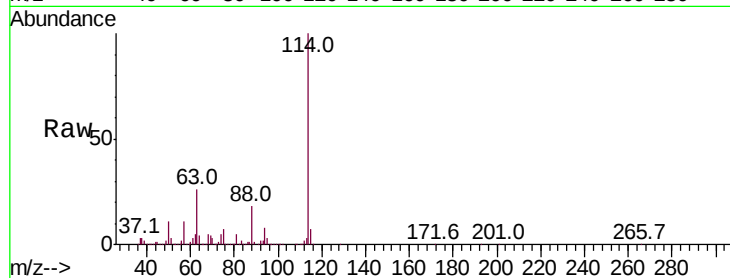
Tot Ion:114 Resp: 2596183

Ion Ratio Lower Upper

114 100

63 26.9 22.2 33.4

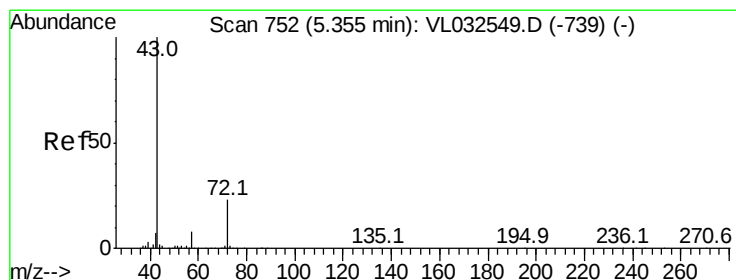
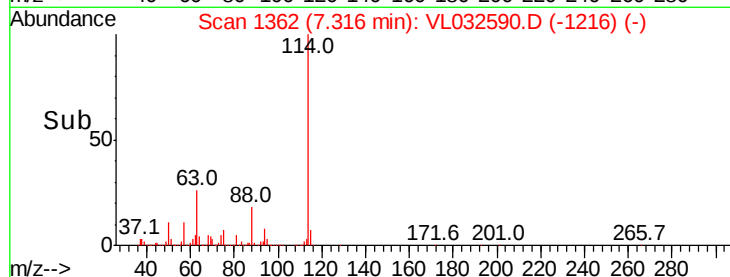
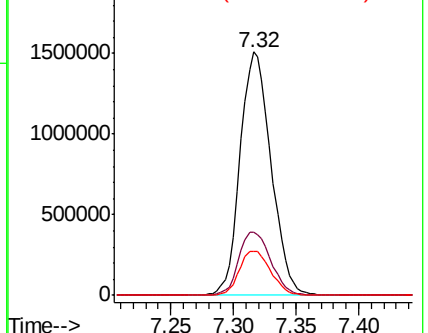
88 18.5 15.0 22.4



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



#34

2-Butanone

Concen: 0.072 ppbv

RT: 5.35 min Scan# 752

Delta R.T. -0.02 min

Lab File: VL032590.D

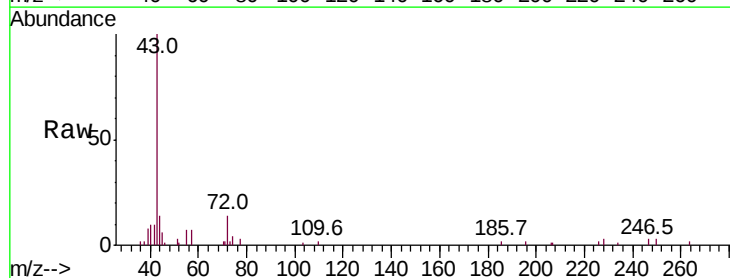
Acq: 3 Oct 2018 21:57

Tgt Ion: 43 Resp: 11197

Ion Ratio Lower Upper

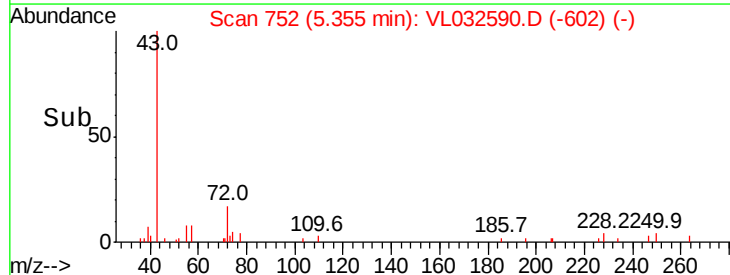
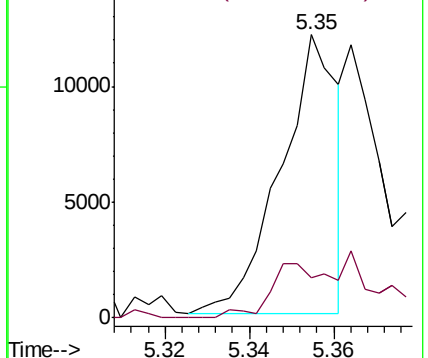
43 100

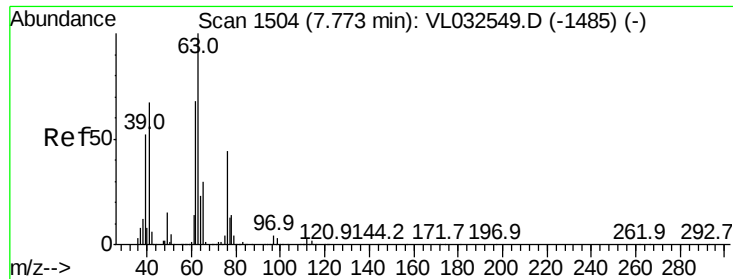
72 0.0 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.376 ppbv

RT: 7.32 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :

MSVOA_L

ClientSampled :

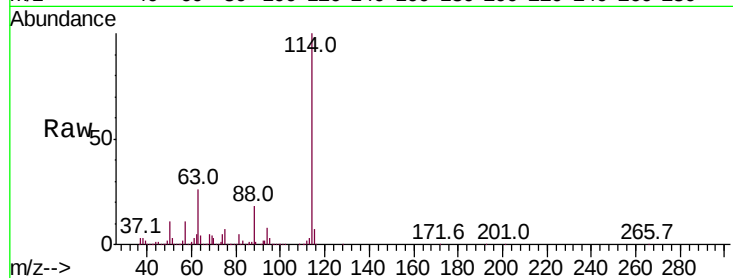
Tot Ion: 63 Resp: 697375

Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

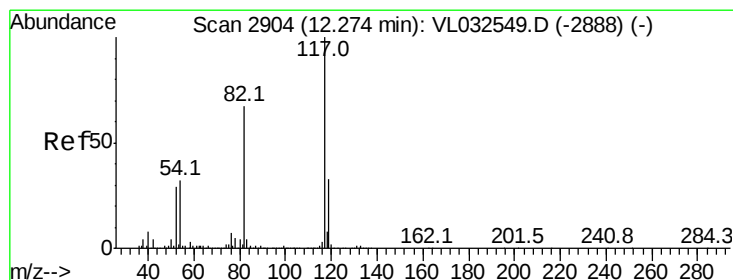
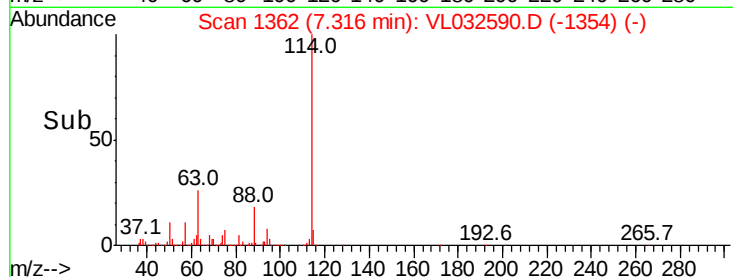
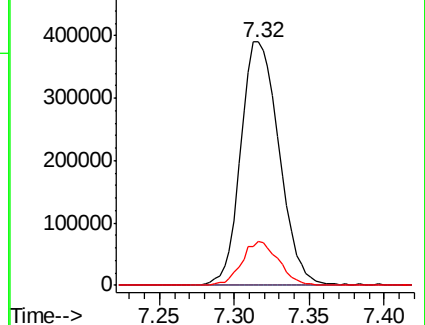
62 18.1 55.4 83.0#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

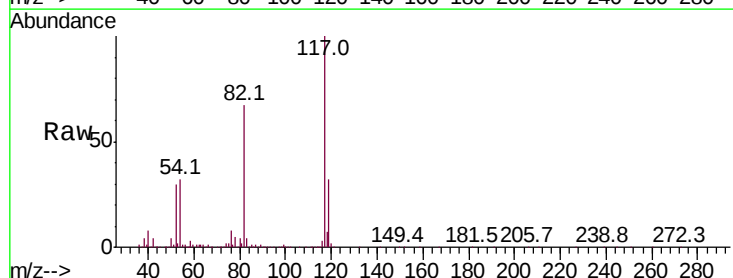
Tgt Ion: 117 Resp: 2804657

Ion Ratio Lower Upper

117 100

82 67.3 53.0 79.6

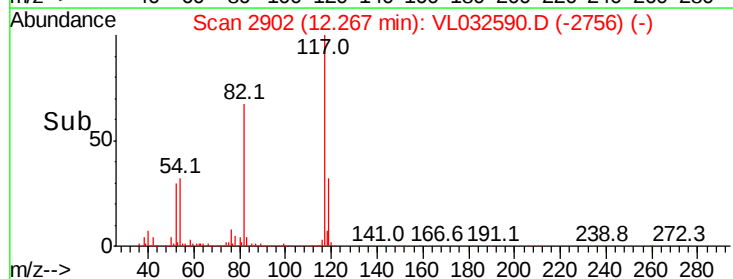
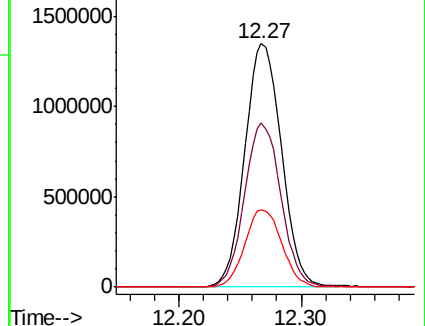
119 32.4 45.9 68.9#

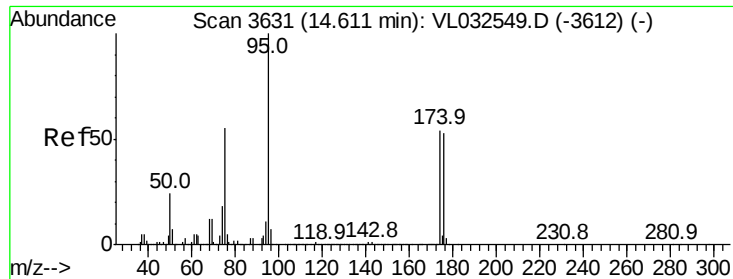


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.408 ppbv

RT: 14.60 min Scan# 3628

Delta R.T. -0.03 min

Lab File: VL032590.D

Acq: 3 Oct 2018 21:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 1989860

Ion Ratio Lower Upper

95 100

174 58.4 46.3 69.5

175 4.2 3.4 5.0

