

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034234.D
 Acq On : 7 Oct 2019 22:56
 Operator : SY/AP
 Sample : K5225-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: Oct 09 02:22:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 12:53:31 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1111386	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1826308	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.16	117	1856313	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1664423	10.32	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

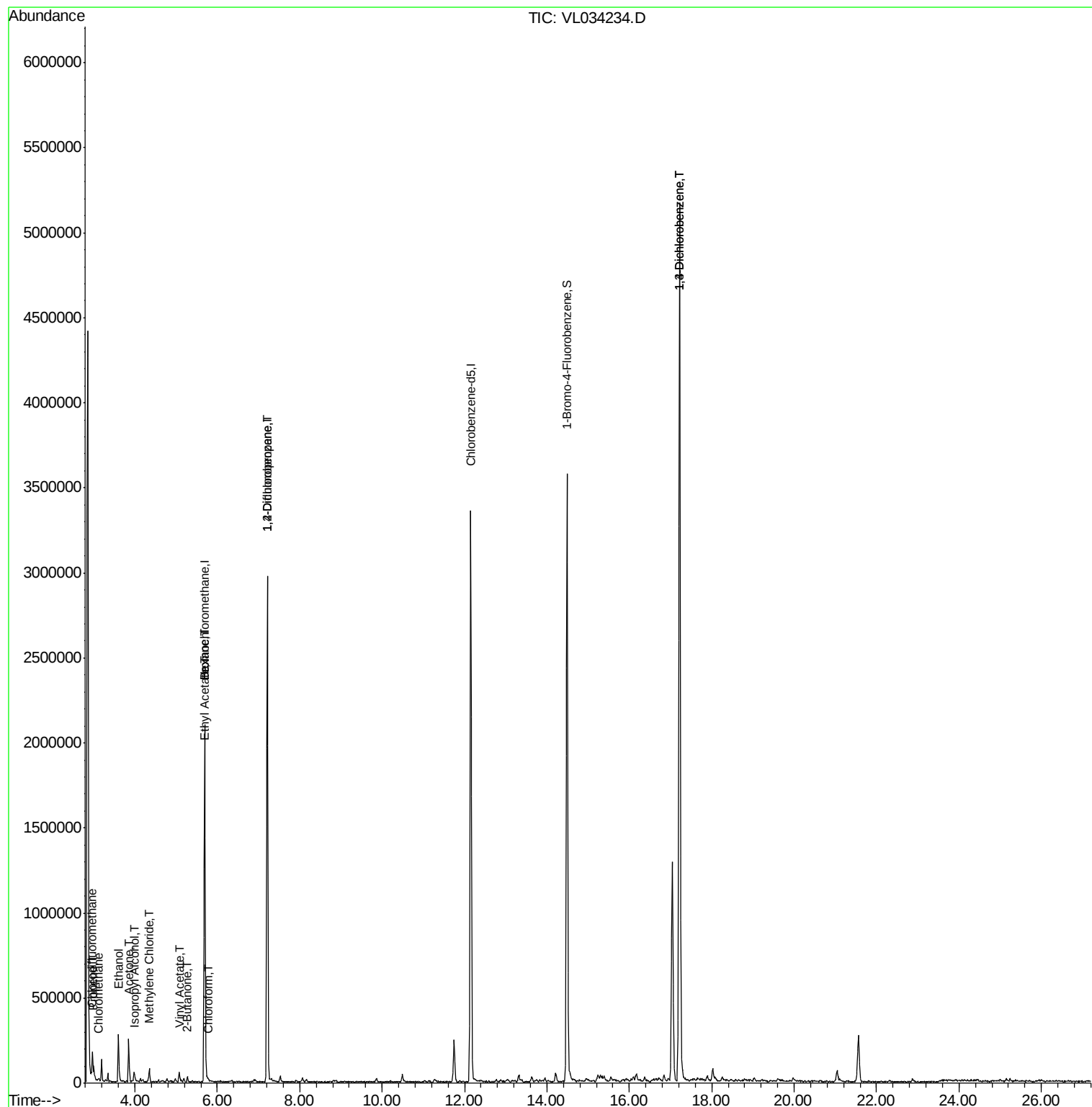
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.97	51	145935	1.120	ppbv	97
4) Chloromethane	3.12	50	7498	0.098	ppbv	88
9) Propene	2.98	41	2201	0.034	ppbv #	15
13) Ethanol	3.60	45	263031	16.895	ppbv	95
15) Acetone	3.85	43	235422	1.580	ppbv	99
19) Isopropyl Alcohol	3.99	45	35166	0.384	ppbv #	85
20) Methylene Chloride	4.34	84	10923	0.254	ppbv	88
23) Vinyl Acetate	5.09	43	7885	0.036	ppbv #	71
25) Ethyl Acetate	5.71	43	26121	0.093	ppbv #	96
26) Hexane	5.70	57	7073	0.060	ppbv #	1
29) Chloroform	5.77	83	6285	0.038	ppbv #	68
34) 2-Butanone	5.27	43	24466	0.131	ppbv #	87
39) 1,2-Dichloropropane	7.21	63	609522	6.726	ppbv #	20
75) 1,3-Dichlorobenzene	17.22	146	2380390	15.432	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	2380390	15.069	ppbv	99

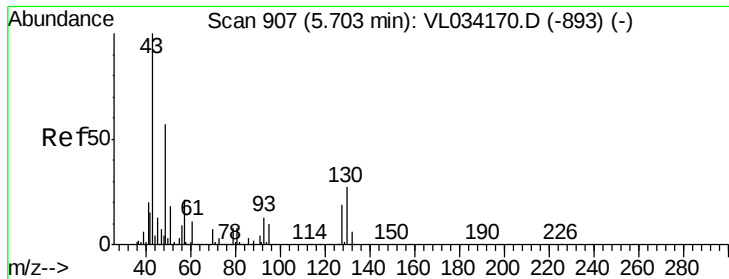
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

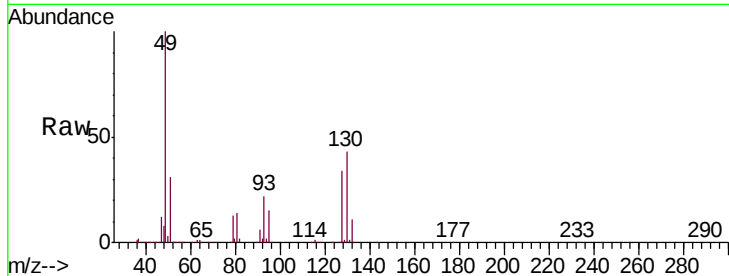
Tgt Ion: 49 Resp: 1111386

Ion Ratio Lower Upper

49 100

128 35.4 17.6 52.9

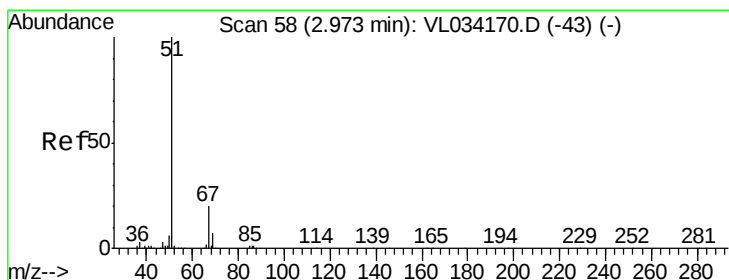
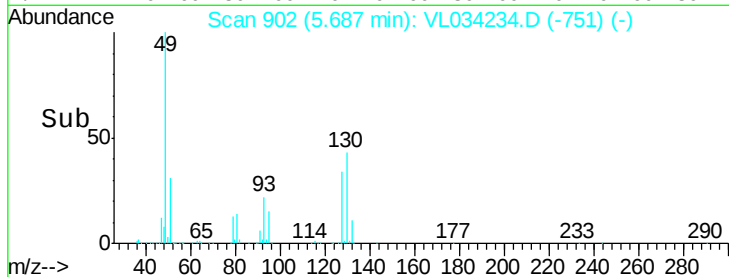
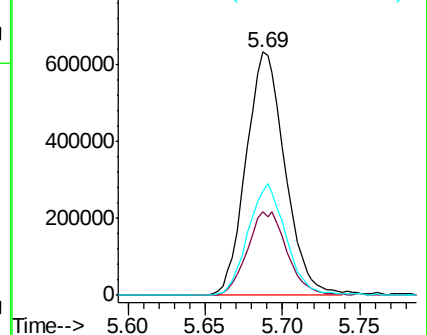
130 44.9 22.3 66.9



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: 1.120 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034234.D

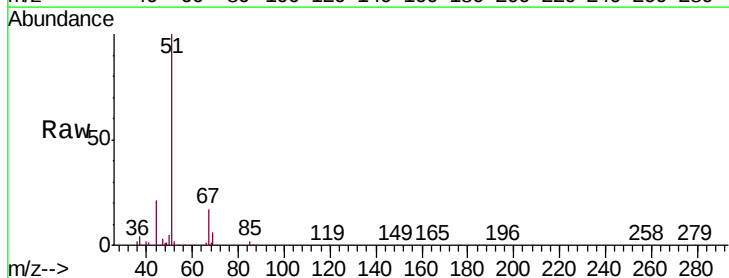
Acq: 7 Oct 2019 22:56

Tgt Ion: 51 Resp: 145935

Ion Ratio Lower Upper

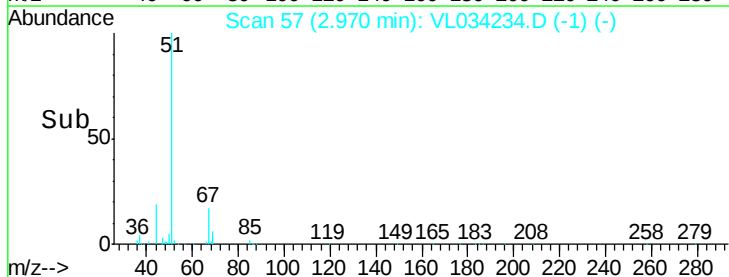
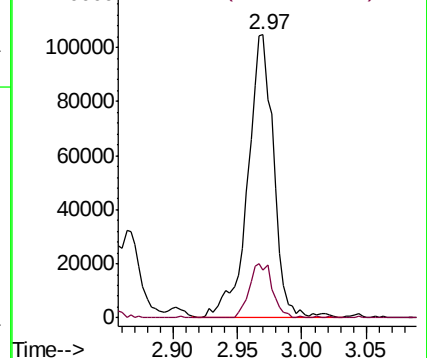
51 100

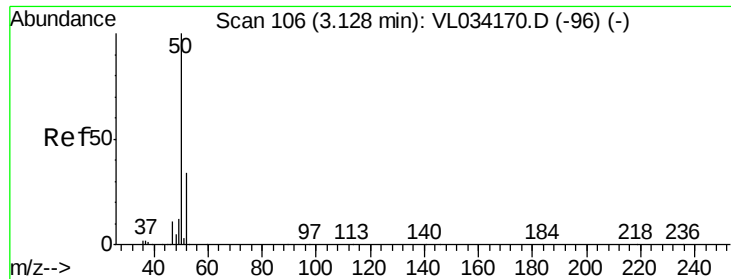
67 17.3 14.8 22.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.098 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

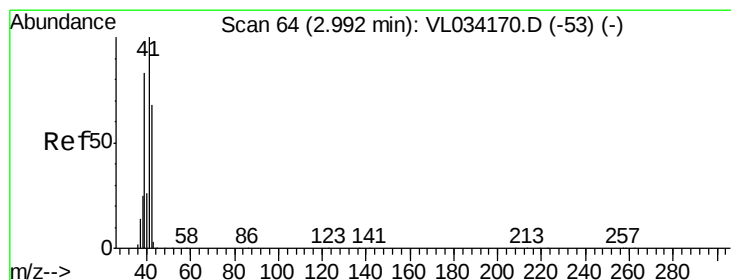
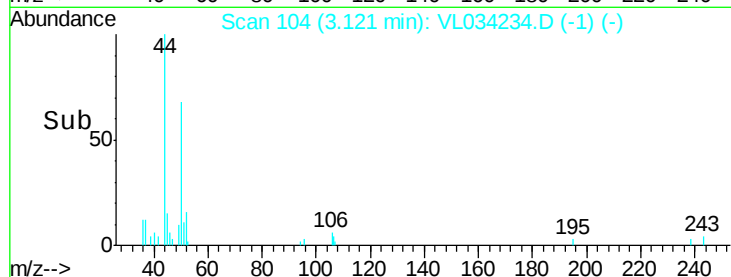
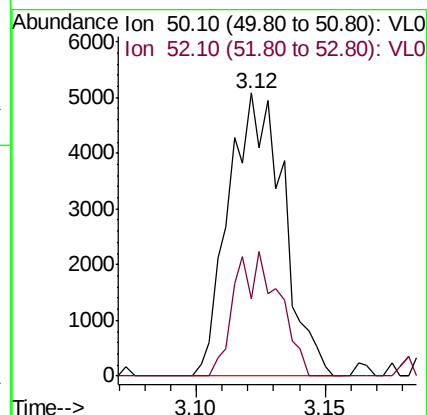
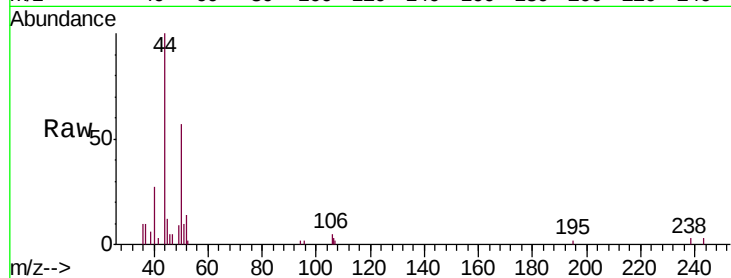
IA2DL

Tgt Ion: 50 Resp: 7498

Ion Ratio Lower Upper

50 100

52 27.3 27.1 40.7



#9

Propene

Concen: 0.034 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL034234.D

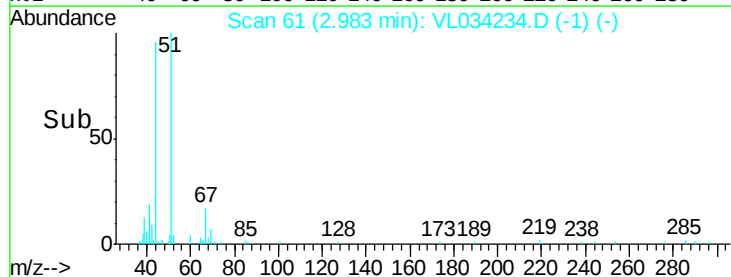
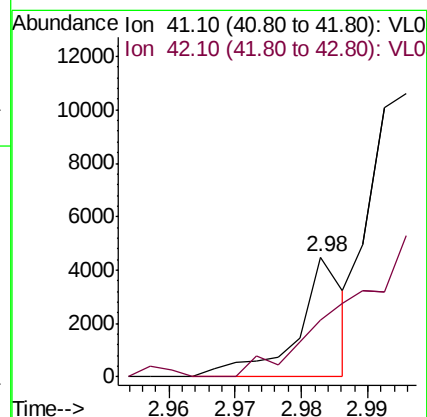
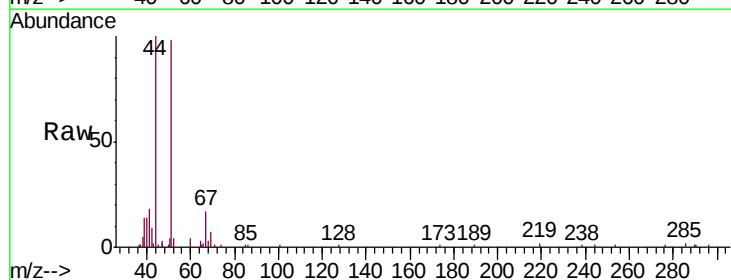
Acq: 7 Oct 2019 22:56

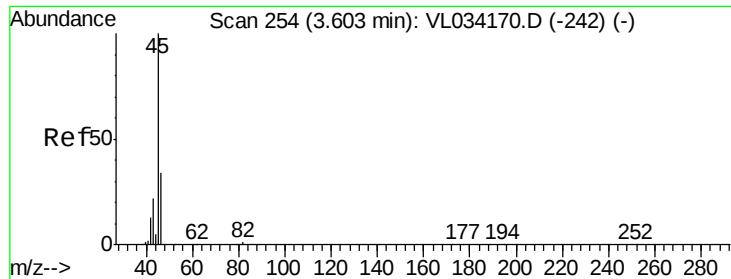
Tgt Ion: 41 Resp: 2201

Ion Ratio Lower Upper

41 100

42 0.0 55.8 83.6#





#13

Ethanol

Concen: 16.895 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

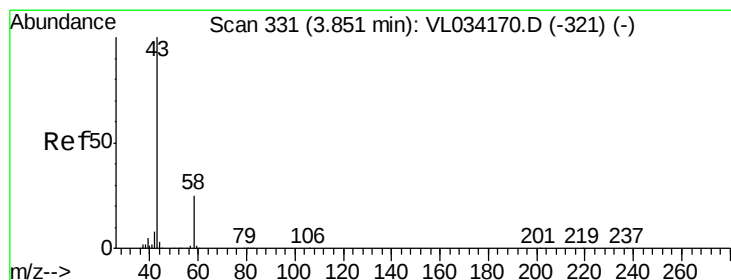
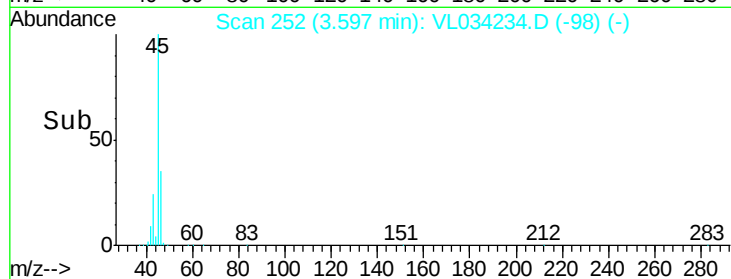
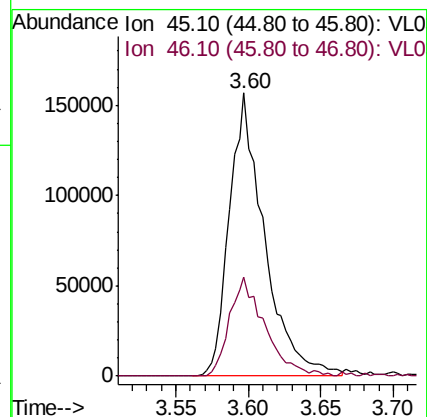
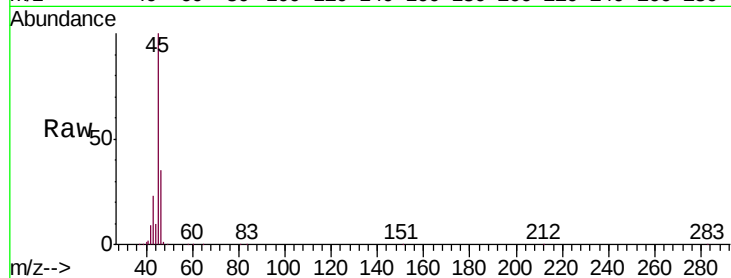
IA2DL

Tgt Ion: 45 Resp: 263031

Ion Ratio Lower Upper

45 100

46 35.7 15.5 61.9



#15

Acetone

Concen: 1.580 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL034234.D

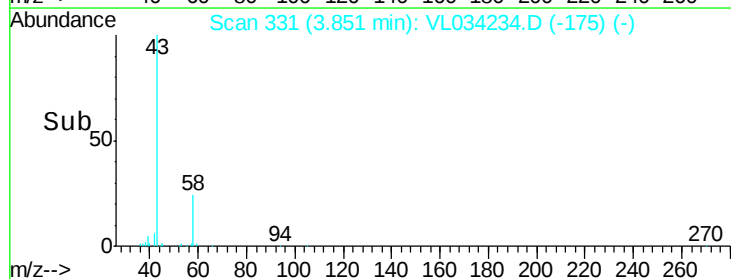
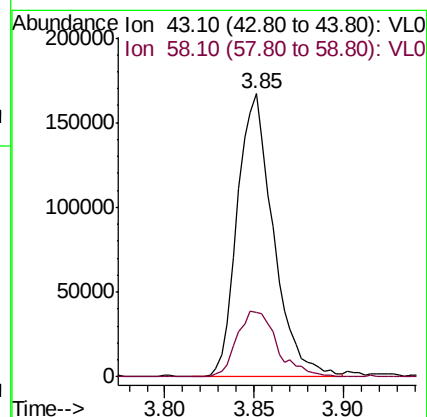
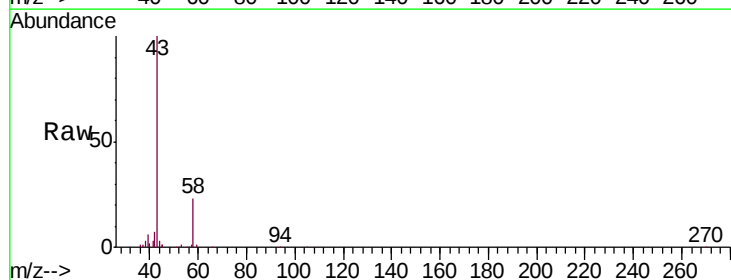
Acq: 7 Oct 2019 22:56

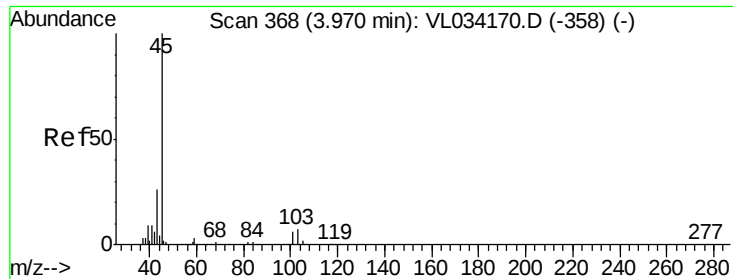
Tgt Ion: 43 Resp: 235422

Ion Ratio Lower Upper

43 100

58 26.1 20.5 30.7





#19

Isopropyl Alcohol

Concen: 0.384 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

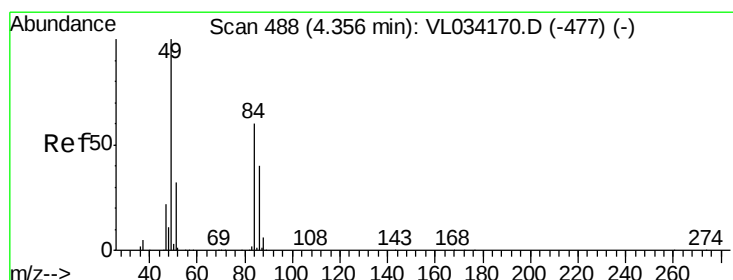
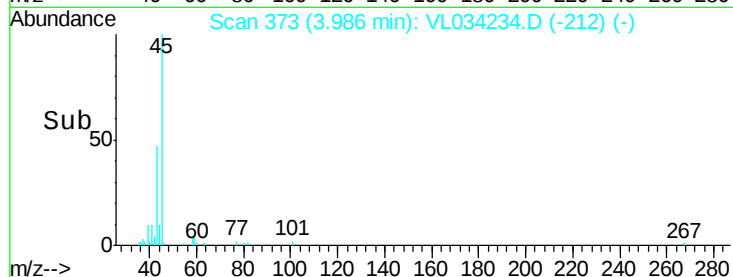
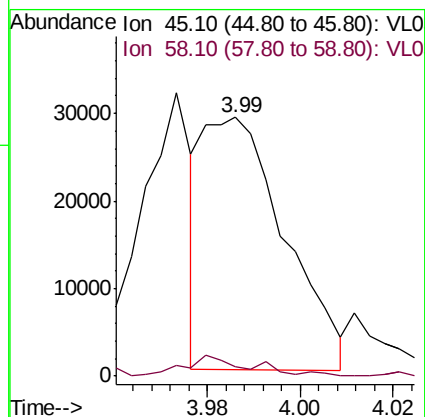
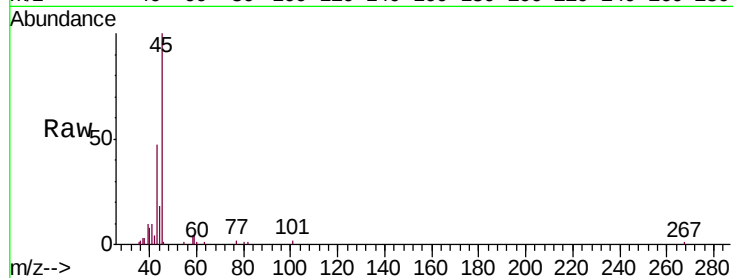
IA2DL

Tgt Ion: 45 Resp: 35166

Ion Ratio Lower Upper

45 100

58 7.3 1.4 2.0#



#20

Methylene Chloride

Concen: 0.254 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Tgt Ion: 84 Resp: 10923

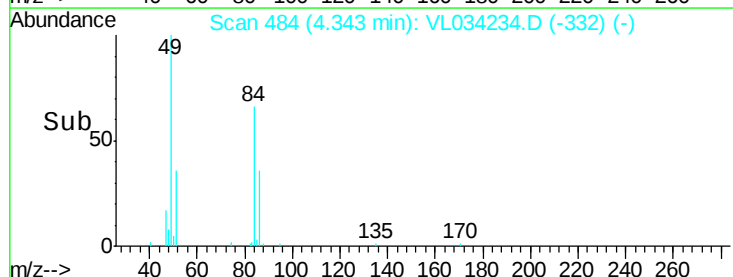
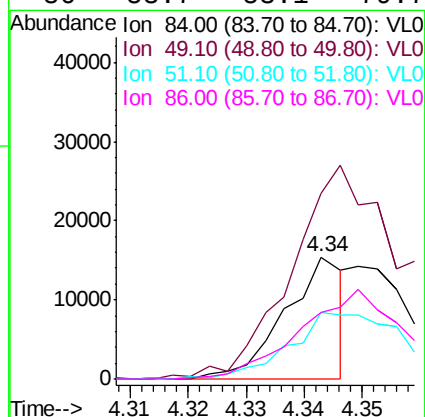
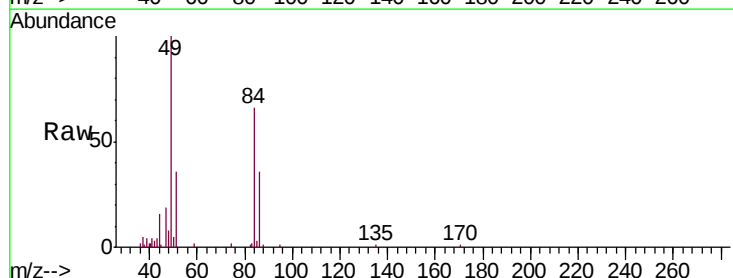
Ion Ratio Lower Upper

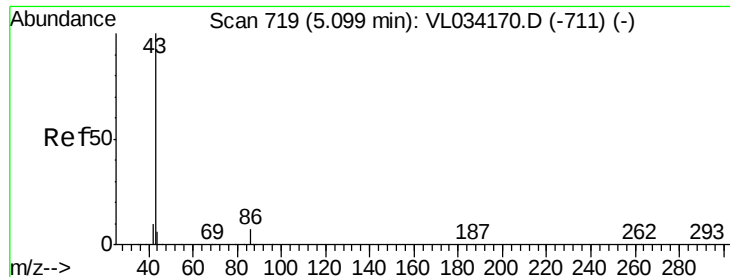
84 100

49 149.7 133.8 200.8

51 52.5 43.6 65.4

86 53.7 53.1 79.7





#23

Vinyl Acetate

Concen: 0.036 ppbv

RT: 5.09 min Scan# 716

Delta R.T. -0.01 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion: 43 Resp: 7885

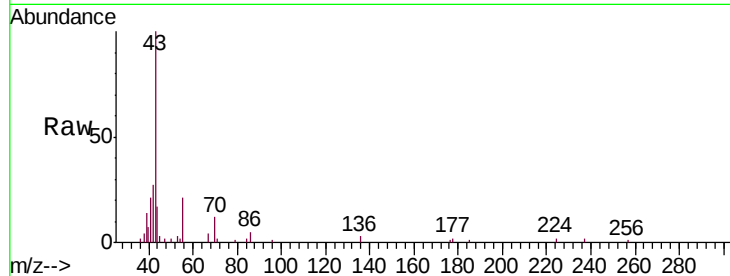
Ion Ratio Lower Upper

43 100

86 7.4 5.1 7.7

42 31.8 8.6 12.8#

44 8.7 4.7 7.1#

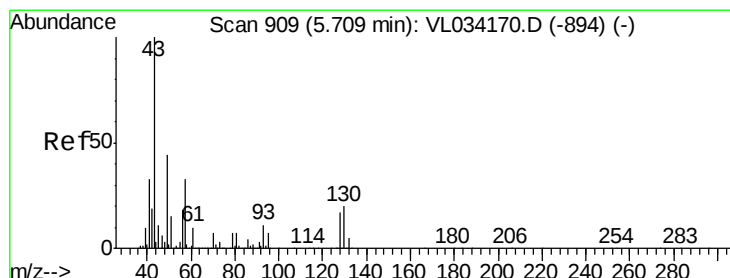
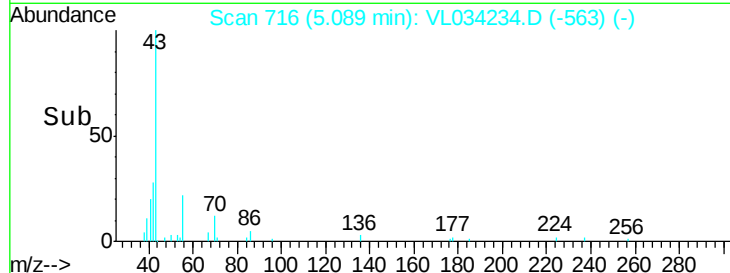
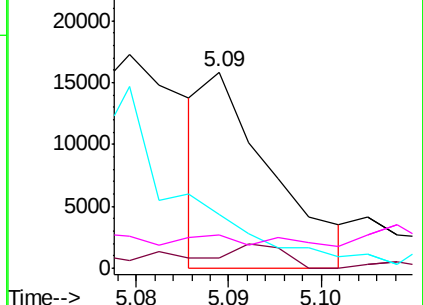


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.093 ppbv

RT: 5.71 min Scan# 908

Delta R.T. -0.00 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Tgt Ion: 43 Resp: 26121

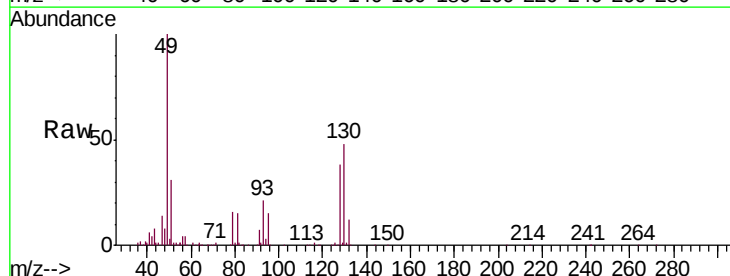
Ion Ratio Lower Upper

43 100

45 10.9 8.4 12.6

61 7.3 7.2 10.8

70 3.4 5.3 7.9#

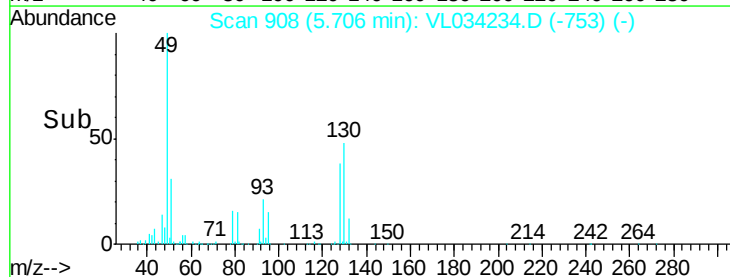
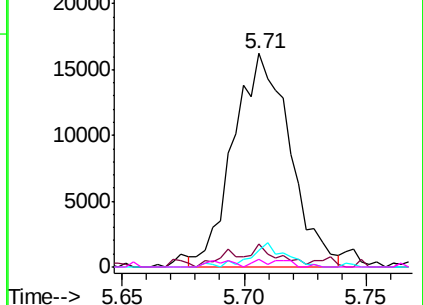


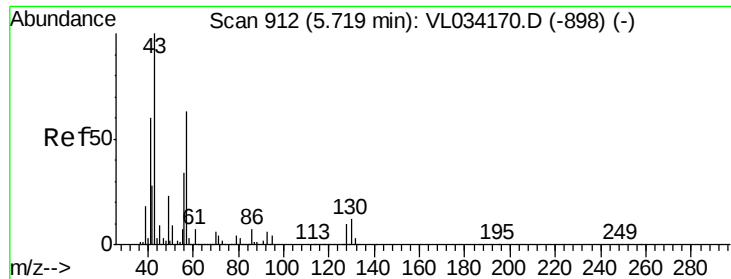
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.060 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.02 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion: 57 Resp: 7073

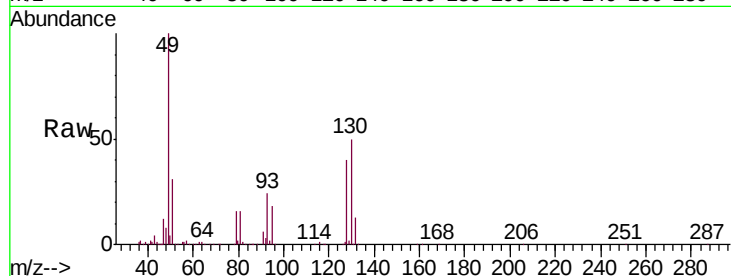
Ion Ratio Lower Upper

57 100

41 0.0 78.5 117.7#

43 0.0 189.5 284.3#

56 0.0 43.2 64.8#

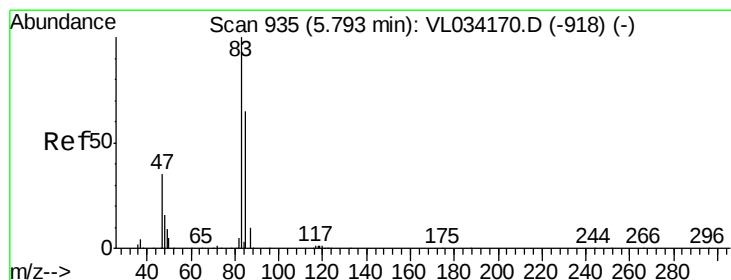
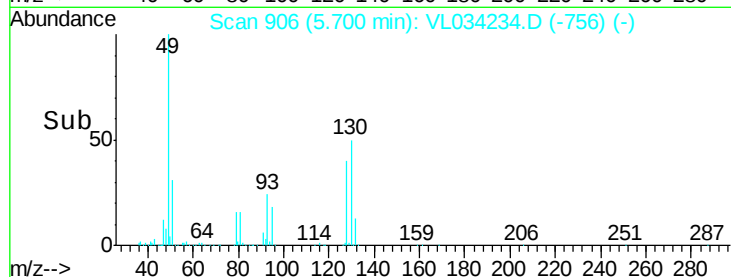
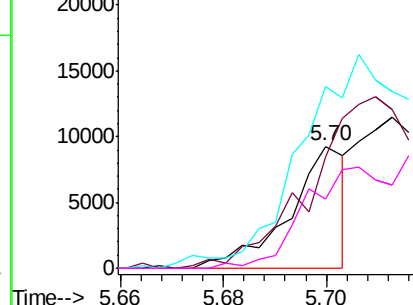


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.038 ppbv

RT: 5.77 min Scan# 929

Delta R.T. -0.02 min

Lab File: VL034234.D

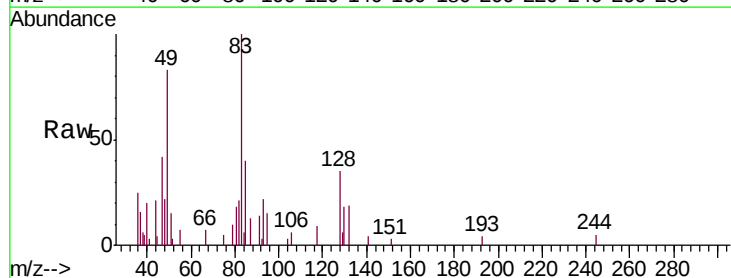
Acq: 7 Oct 2019 22:56

Tgt Ion: 83 Resp: 6285

Ion Ratio Lower Upper

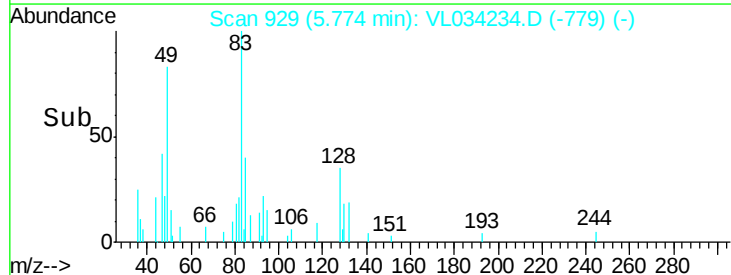
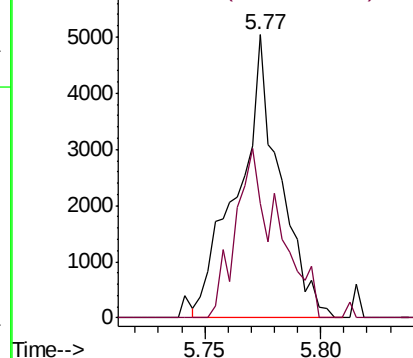
83 100

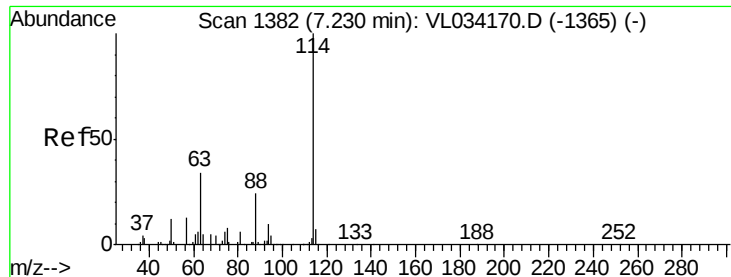
85 40.3 52.3 78.5#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

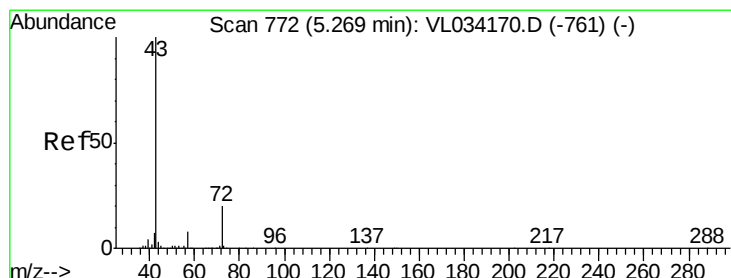
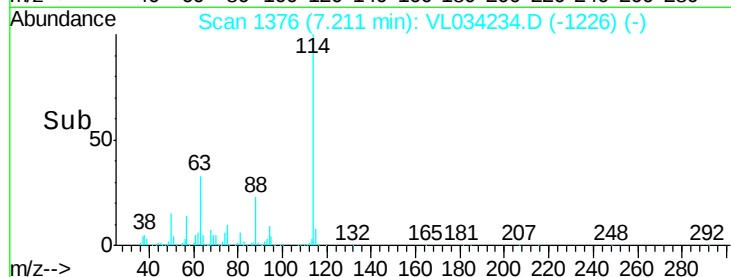
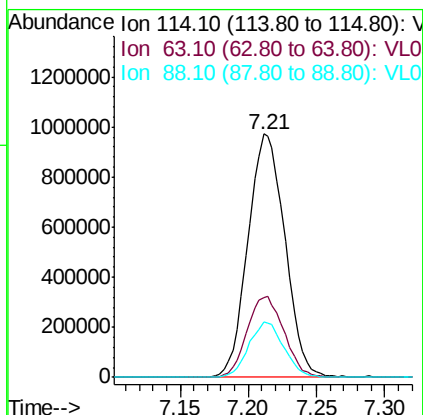
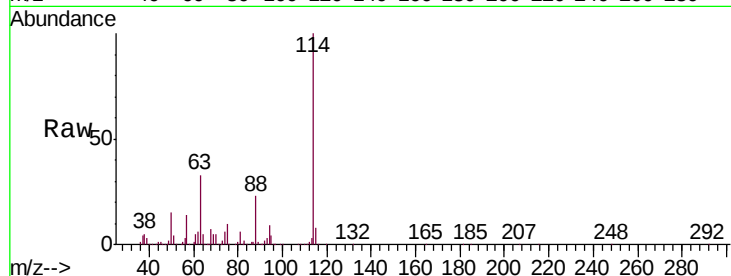




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VL034234.D
 Acq: 7 Oct 2019 22:56

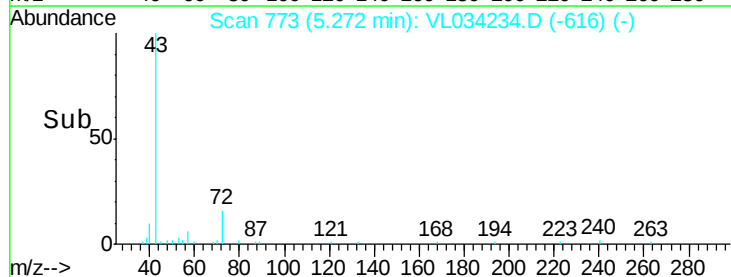
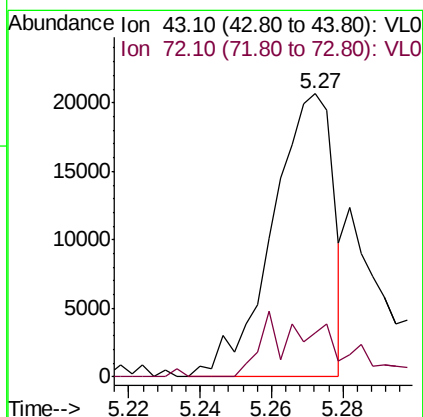
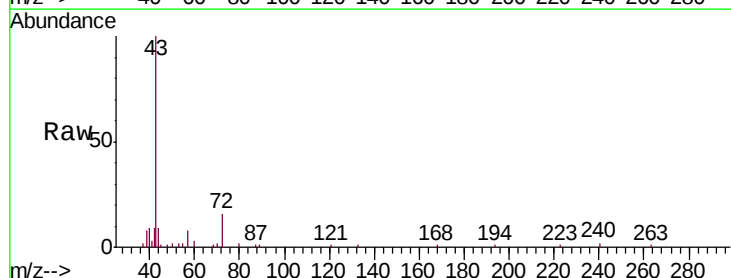
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

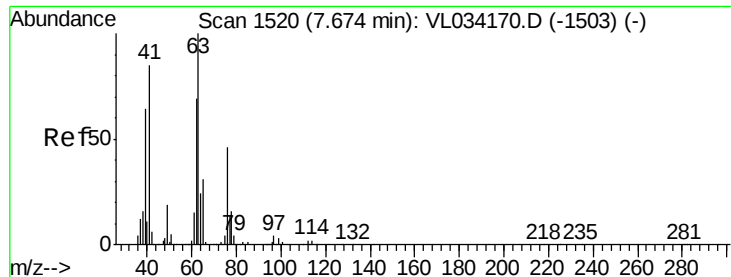
Tgt Ion:114 Resp: 1826308
 Ion Ratio Lower Upper
 114 100
 63 33.6 27.8 41.6
 88 21.7 17.1 25.7



#34
 2-Butanone
 Concen: 0.131 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: VL034234.D
 Acq: 7 Oct 2019 22:56

Tgt Ion: 43 Resp: 24466
 Ion Ratio Lower Upper
 43 100
 72 24.5 15.0 22.6#

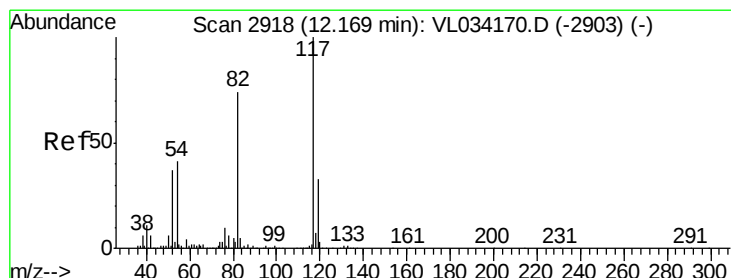
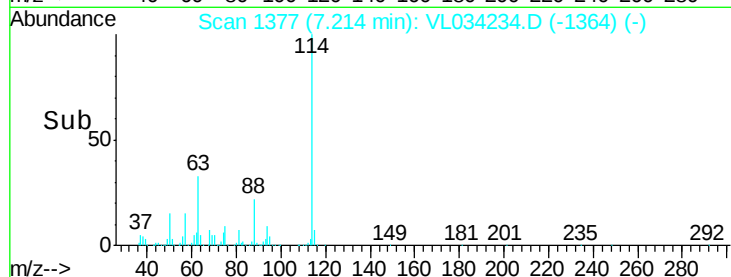
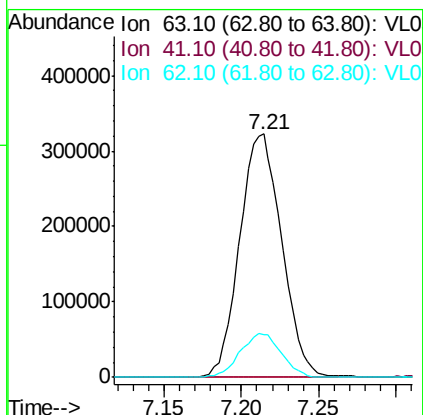
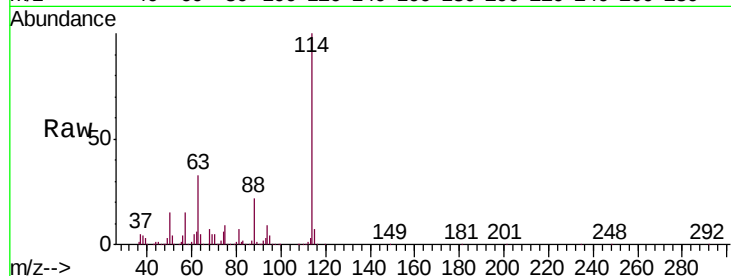




#39
 1,2-Dichloropropane
 Concen: 6.726 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.46 min
 Lab File: VL034234.D
 Acq: 7 Oct 2019 22:56

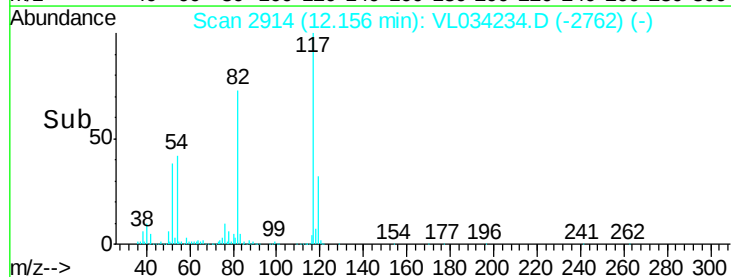
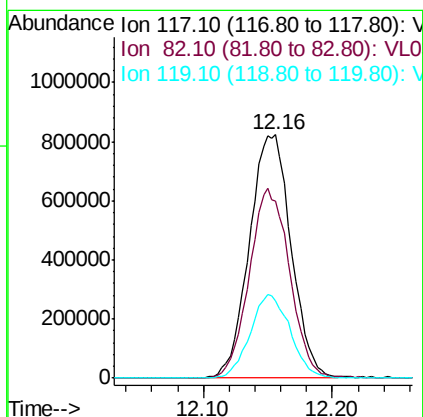
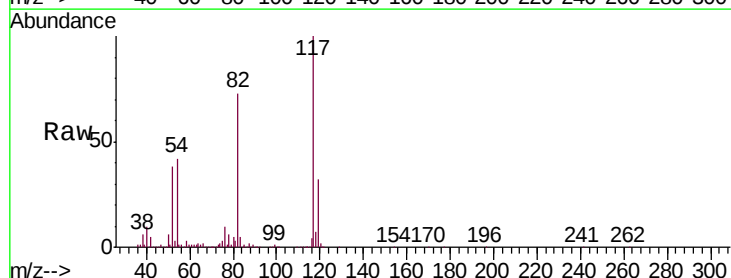
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

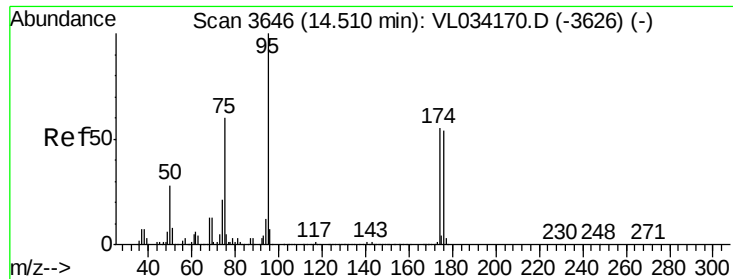
Tgt Ion: 63 Resp: 609522
 Ion Ratio Lower Upper
 63 100
 41 0.0 68.4 102.6#
 62 17.3 55.4 83.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.16 min Scan# 2914
 Delta R.T. -0.01 min
 Lab File: VL034234.D
 Acq: 7 Oct 2019 22:56

Tgt Ion: 117 Resp: 1856313
 Ion Ratio Lower Upper
 117 100
 82 75.5 58.2 87.4
 119 33.1 23.7 35.5

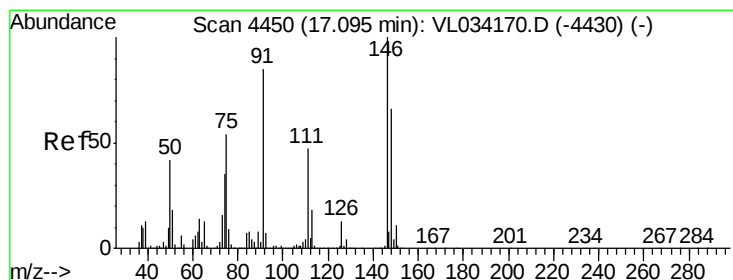
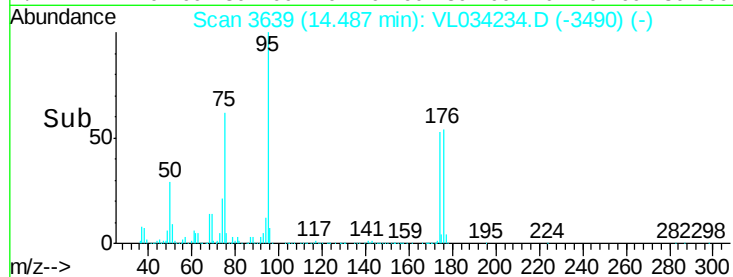
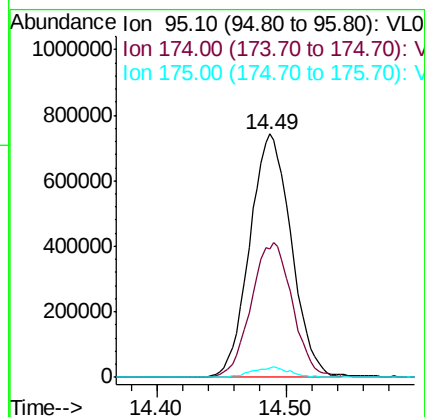
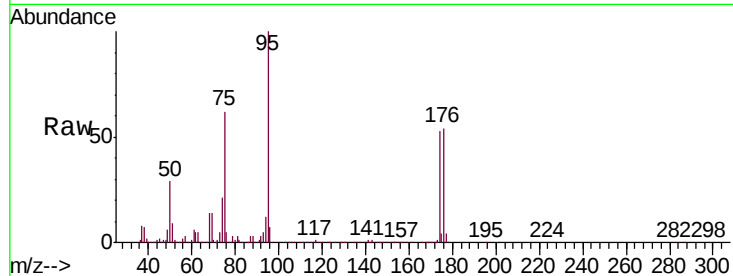




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.319 ppbv
 RT: 14.49 min Scan# 3639
 Delta R.T. -0.02 min
 Lab File: VL034234.D
 Acq: 7 Oct 2019 22:56

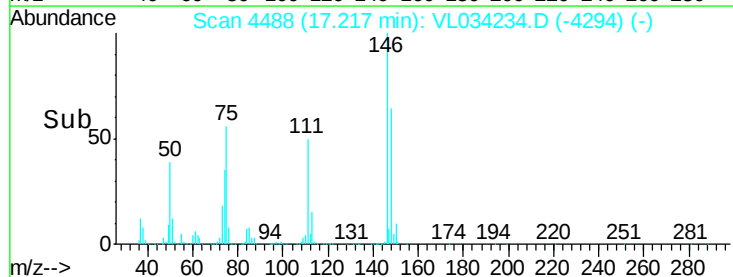
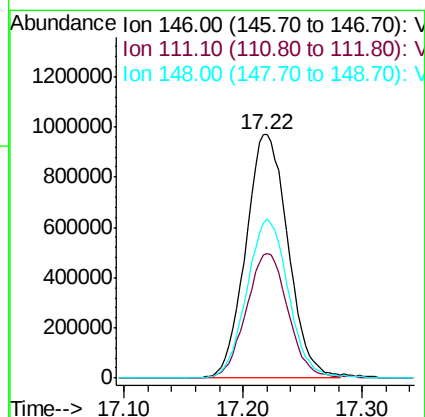
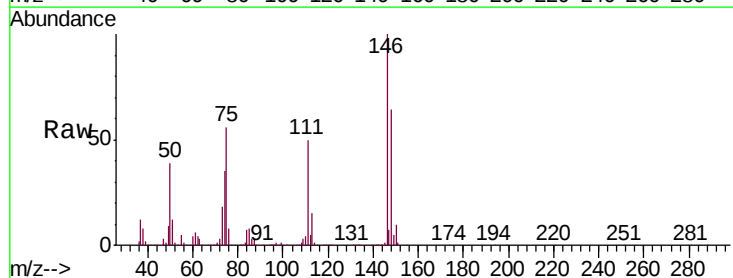
Instrument :
 MSVOA_L
 ClientSampleID :
 IA2DL

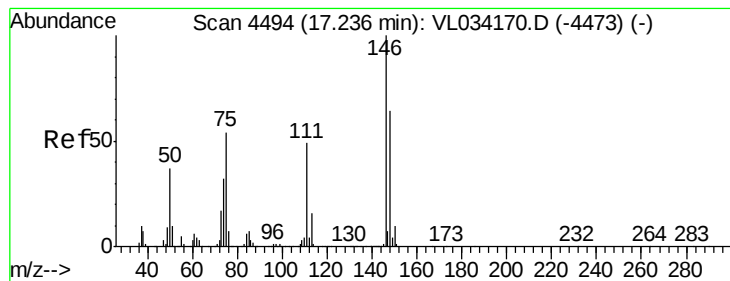
Tgt Ion: 95 Resp: 1664423
 Ion Ratio Lower Upper
 95 100
 174 55.1 45.1 67.7
 175 4.0 3.3 4.9



#75
 1,3-Dichlorobenzene
 Concen: 15.432 ppbv
 RT: 17.22 min Scan# 4488
 Delta R.T. 0.12 min
 Lab File: VL034234.D
 Acq: 7 Oct 2019 22:56

Tgt Ion: 146 Resp: 2380390
 Ion Ratio Lower Upper
 146 100
 111 50.9 25.9 77.8
 148 64.7 32.6 97.7





#76

1,4-Dichlorobenzene

Concen: 15.069 ppbv

RT: 17.22 min Scan# 4488

Delta R.T. -0.02 min

Lab File: VL034234.D

Acq: 7 Oct 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion:146 Resp: 2380390

Ion Ratio Lower Upper

146 100

111 50.9 24.6 74.0

148 64.8 32.4 97.0

