

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034236.D
 Acq On : 8 Oct 2019 00:16
 Operator : SY/AP
 Sample : K5225-05DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Oct 09 02:22:58 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	1064509	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1766261	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1774629	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1589083	10.31	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

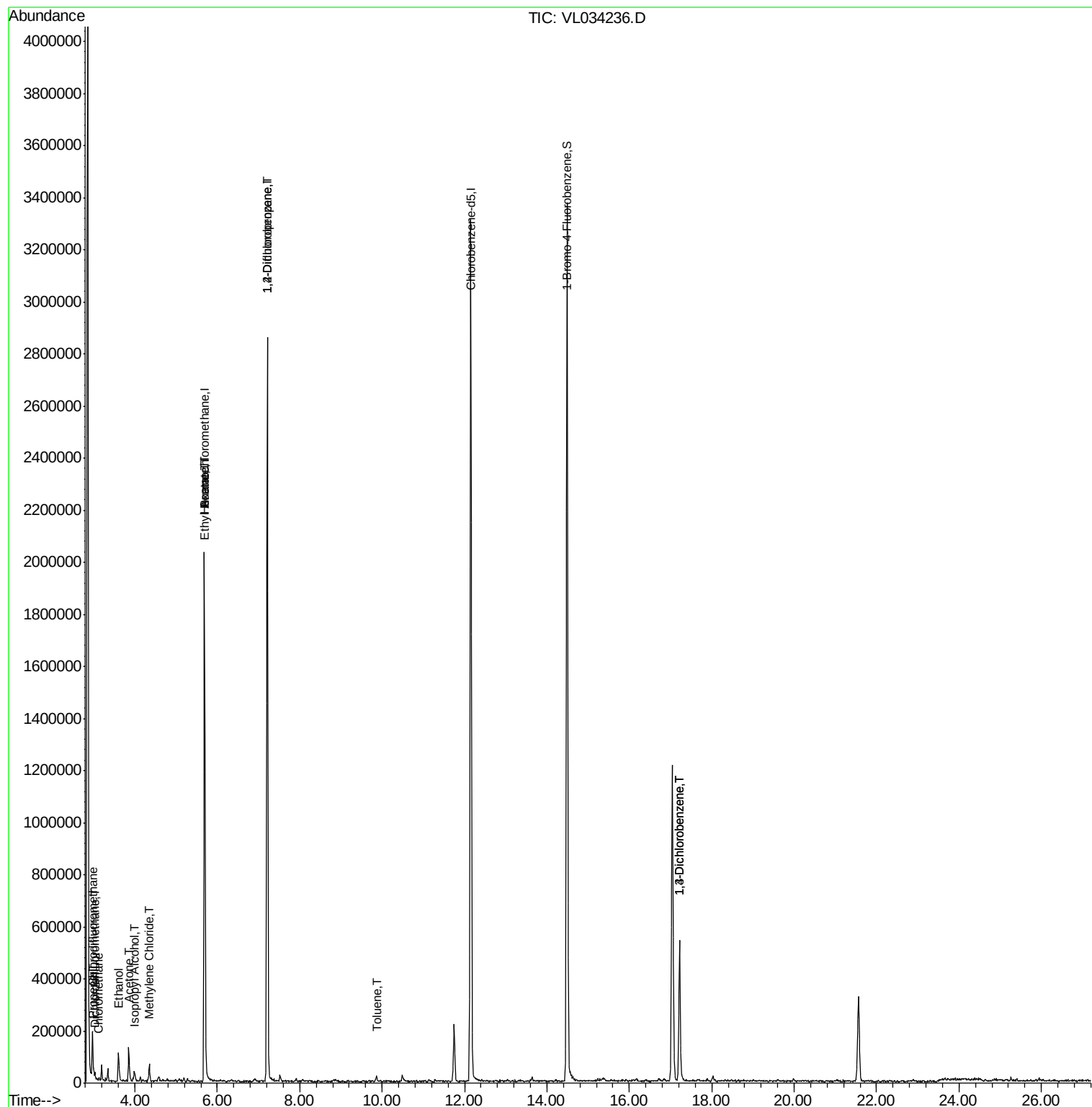
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	12240	0.078	ppbv #	73
3) Chlorodifluoromethane	2.97	51	153919	1.233	ppbv	100
4) Chloromethane	3.12	50	2622	0.036	ppbv	97
9) Propene	2.99	41	4809	0.078	ppbv #	15
13) Ethanol	3.60	45	104590	7.014	ppbv	96
15) Acetone	3.85	43	123700	0.867	ppbv	99
19) Isopropyl Alcohol	3.99	45	37797	0.431	ppbv #	91
20) Methylene Chloride	4.35	84	18985	0.462	ppbv	96
25) Ethyl Acetate	5.70	43	9577	0.035	ppbv #	78
26) Hexane	5.70	57	4116	0.037	ppbv #	1
39) 1,2-Dichloropropane	7.21	63	592665	6.762	ppbv #	20
53) Toluene	9.86	91	9246	0.043	ppbv #	20
75) 1,3-Dichlorobenzene	17.21	146	138915	0.942	ppbv #	47
76) 1,4-Dichlorobenzene	17.21	146	138915	0.920	ppbv #	45

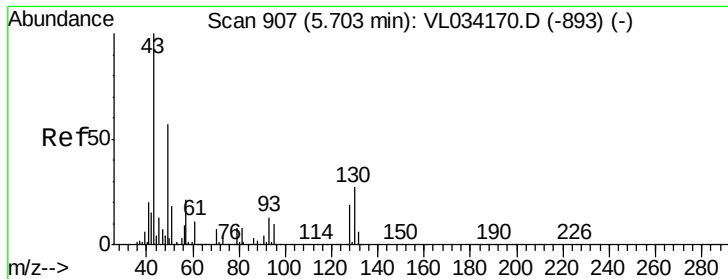
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034236.D

Acq: 8 Oct 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

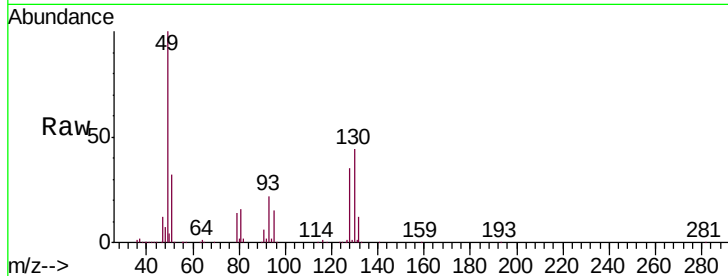
Tgt Ion: 49 Resp: 1064509

Ion Ratio Lower Upper

49 100

128 35.9 17.6 52.9

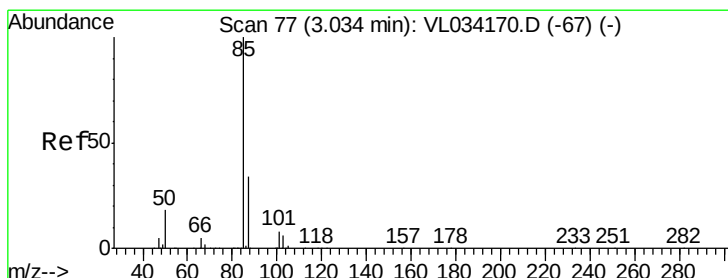
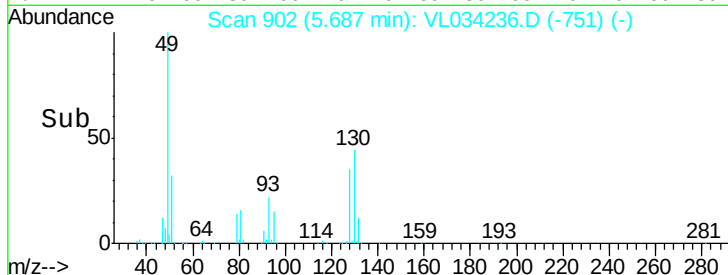
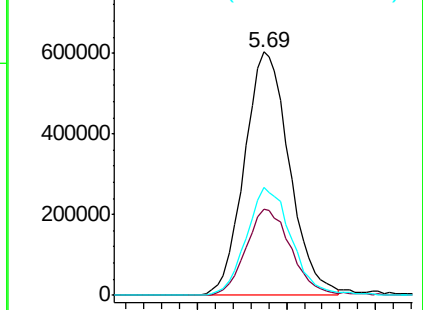
130 44.5 22.3 66.9



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



#2

Dichlorodifluoromethane

Concen: 0.078 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034236.D

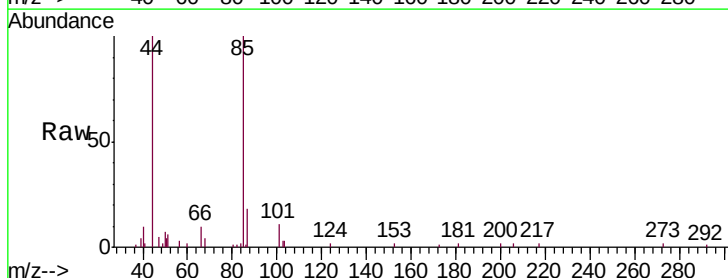
Acq: 8 Oct 2019 00:16

Tgt Ion: 85 Resp: 12240

Ion Ratio Lower Upper

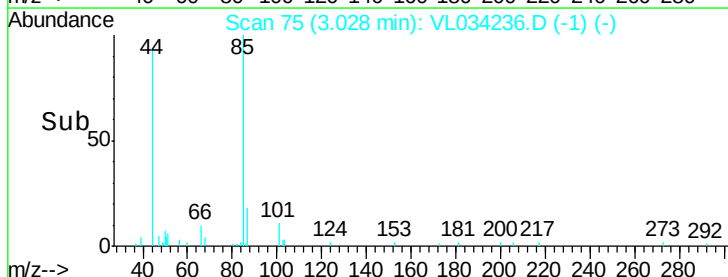
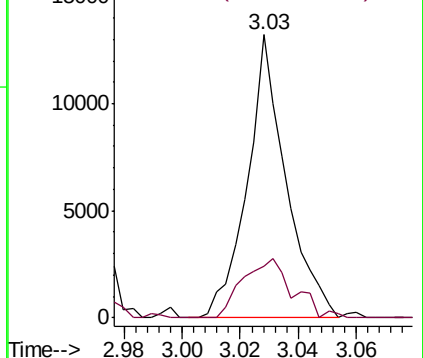
85 100

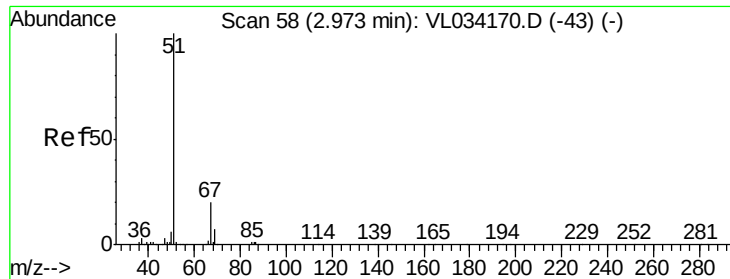
87 18.3 27.2 40.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.233 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034236.D

Acq: 8 Oct 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

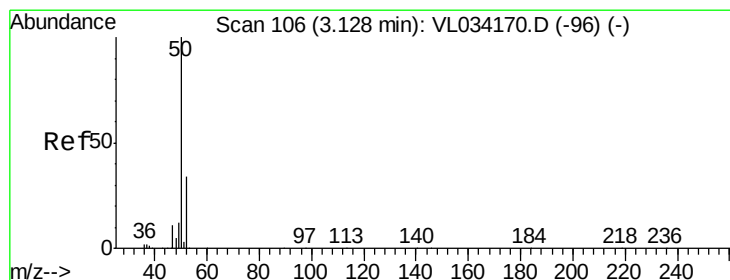
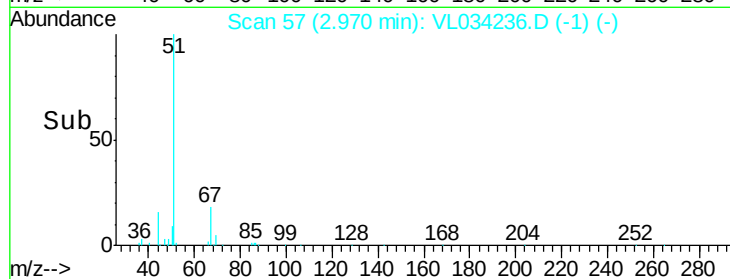
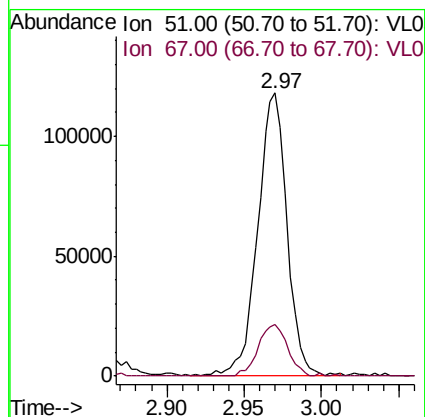
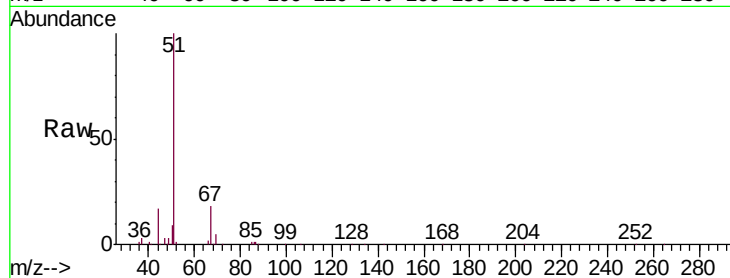
IA1DL

Tgt Ion: 51 Resp: 153919

Ion Ratio Lower Upper

51 100

67 18.7 14.8 22.2



#4

Chloromethane

Concen: 0.036 ppbv

RT: 3.12 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034236.D

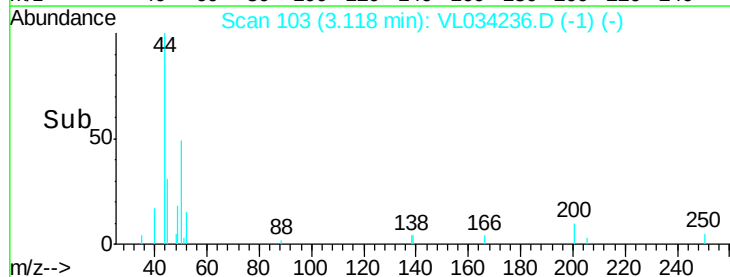
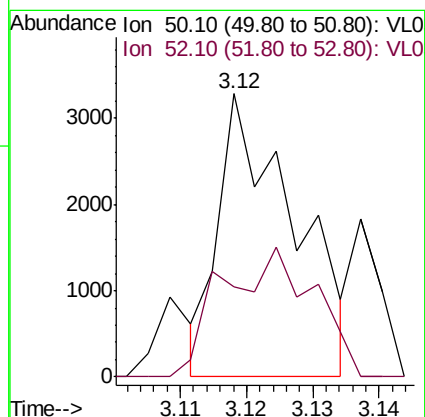
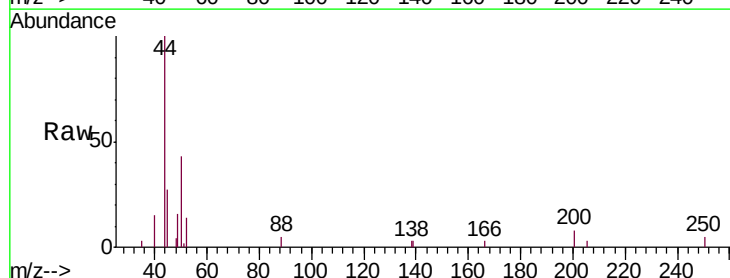
Acq: 8 Oct 2019 00:16

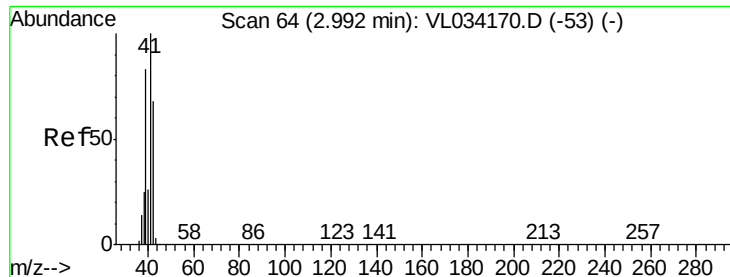
Tgt Ion: 50 Resp: 2622

Ion Ratio Lower Upper

50 100

52 32.0 27.1 40.7





#9

Propene

Concen: 0.078 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034236.D

Acq: 8 Oct 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

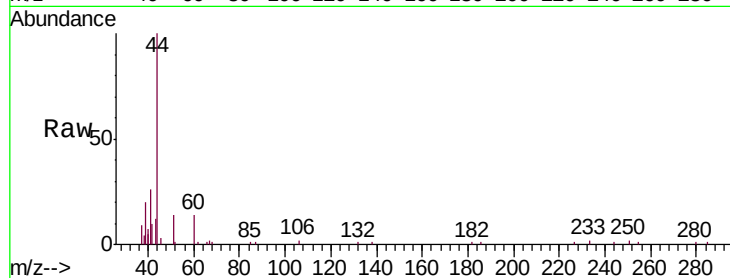
IA1DL

Tgt Ion: 41 Resp: 4809

Ion Ratio Lower Upper

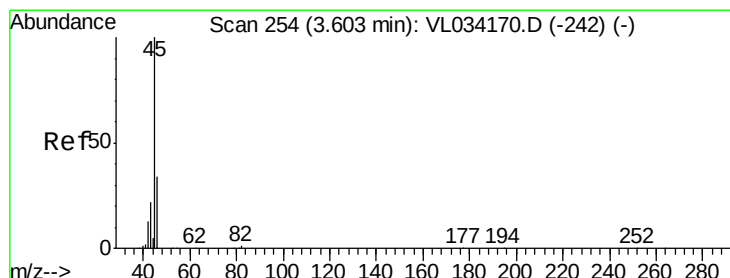
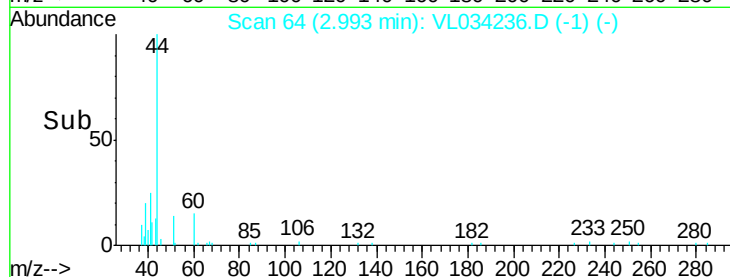
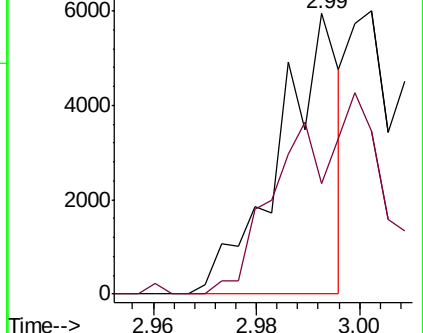
41 100

42 0.0 55.8 83.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 7.014 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL034236.D

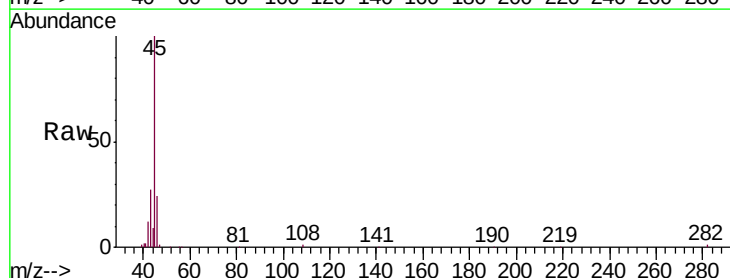
Acq: 8 Oct 2019 00:16

Tgt Ion: 45 Resp: 104590

Ion Ratio Lower Upper

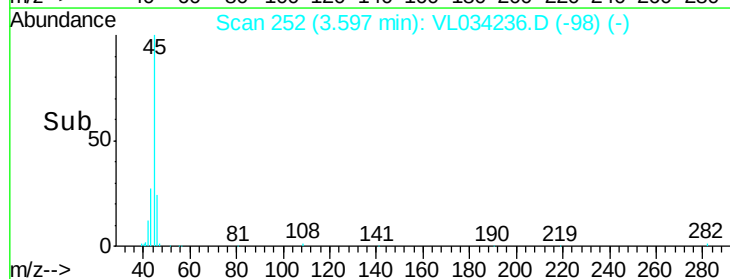
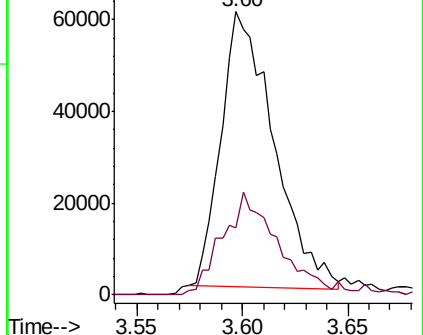
45 100

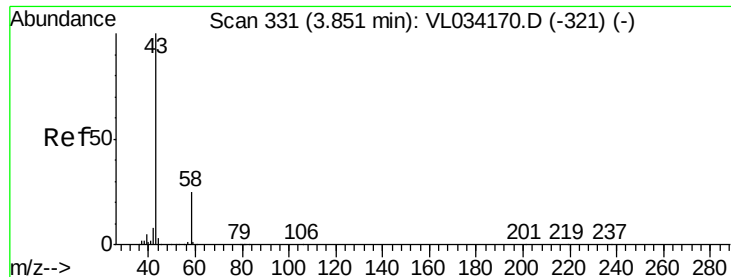
46 41.0 15.5 61.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.867 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL034236.D

Acq: 8 Oct 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

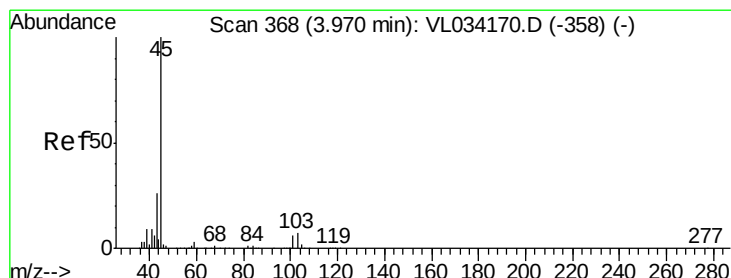
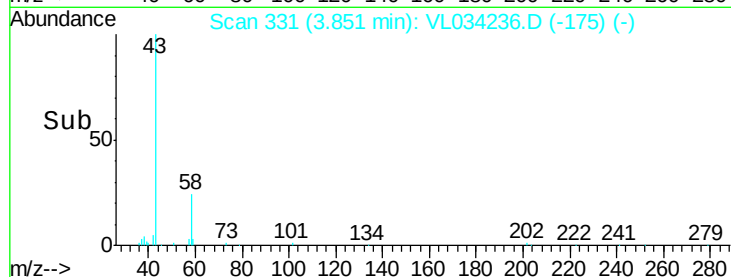
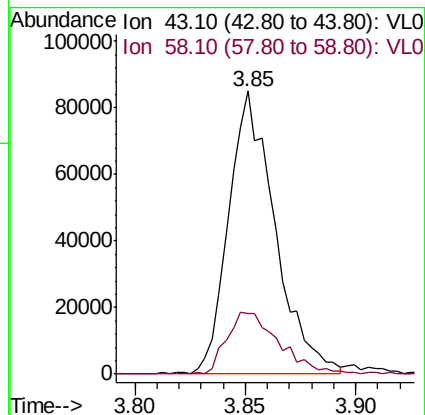
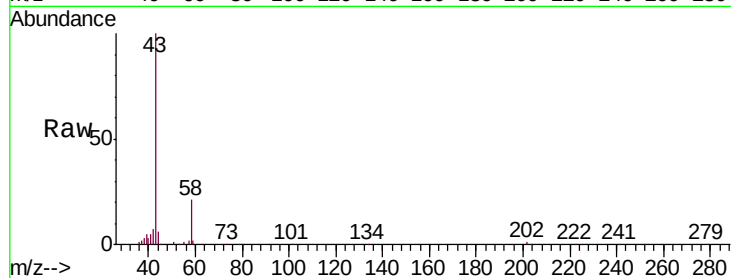
IA1DL

Tgt Ion: 43 Resp: 123700

Ion Ratio Lower Upper

43 100

58 25.2 20.5 30.7



#19

Isopropyl Alcohol

Concen: 0.431 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL034236.D

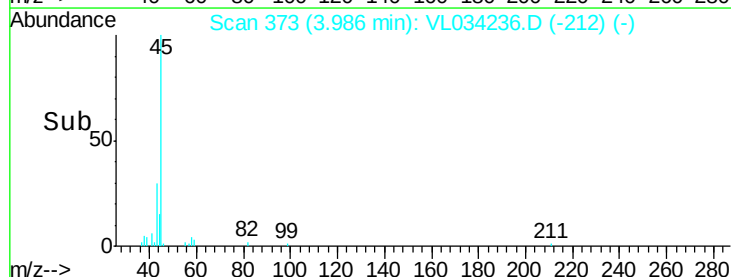
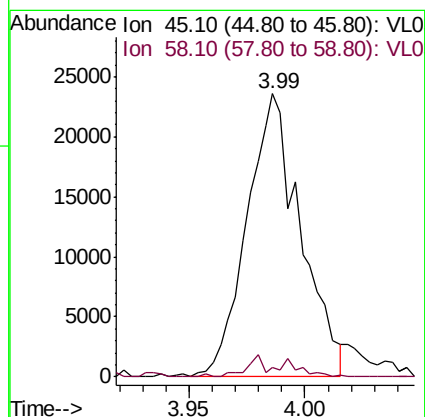
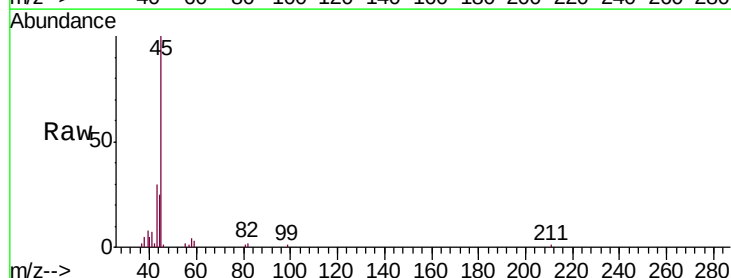
Acq: 8 Oct 2019 00:16

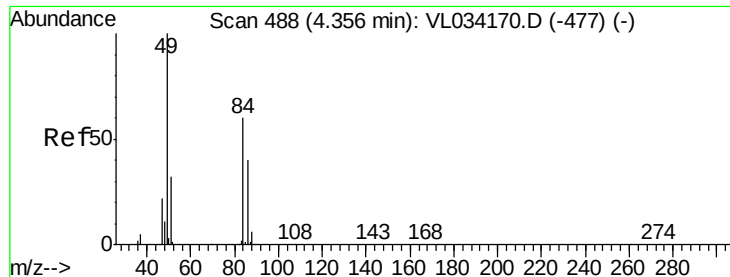
Tgt Ion: 45 Resp: 37797

Ion Ratio Lower Upper

45 100

58 4.9 1.4 2.0#

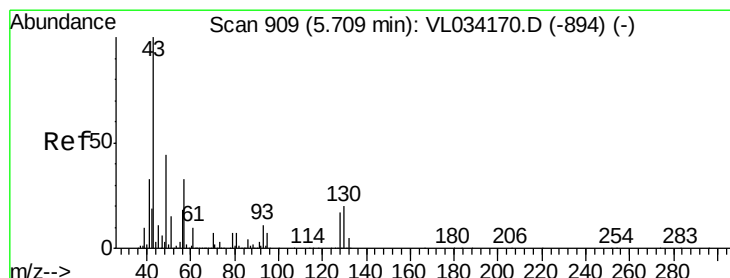
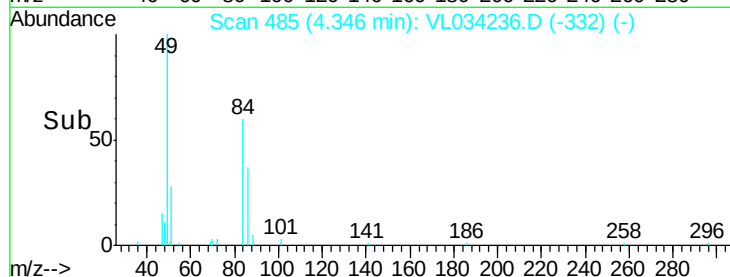
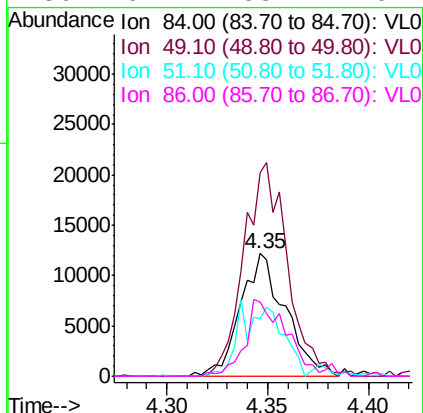
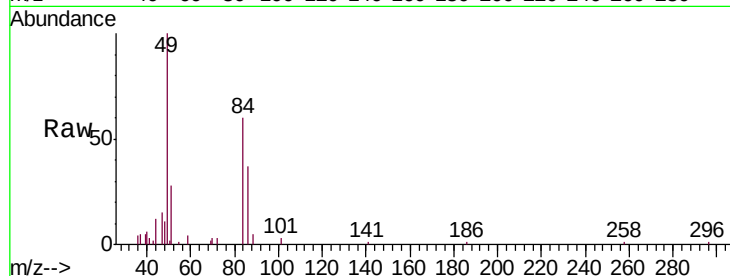




#20
Methylene Chloride
Concen: 0.462 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.01 min
Lab File: VL034236.D
Acq: 8 Oct 2019 00:16

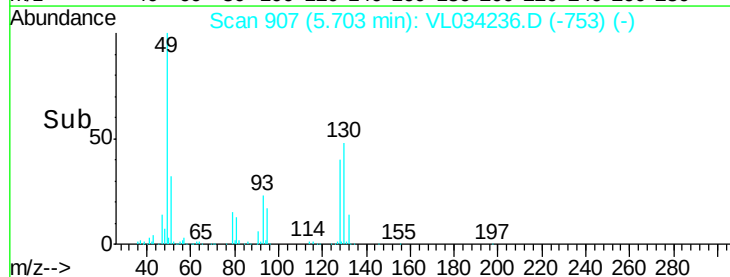
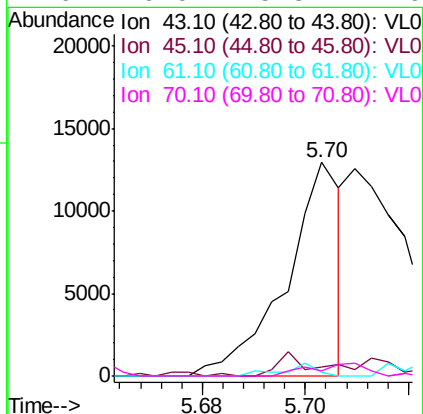
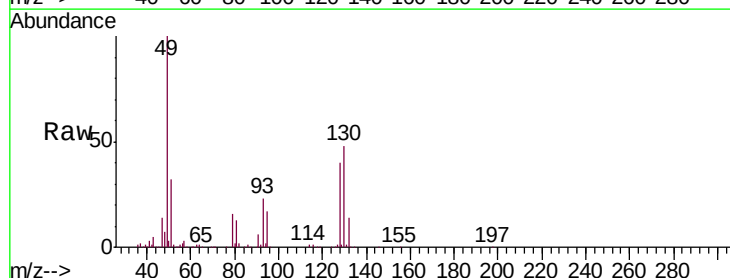
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

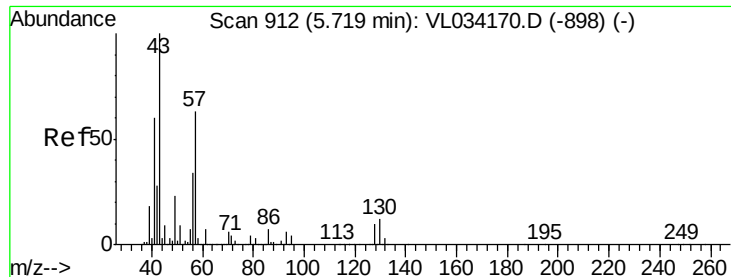
Tgt Ion:	84	Resp:	18985
Ion	Ratio	Lower	Upper
84	100		
49	165.6	133.8	200.8
51	46.8	43.6	65.4
86	61.1	53.1	79.7



#25
Ethyl Acetate
Concen: 0.035 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL034236.D
Acq: 8 Oct 2019 00:16

Tgt Ion:	43	Resp:	9577
Ion	Ratio	Lower	Upper
43	100		
45	18.4	8.4	12.6#
61	0.0	7.2	10.8#
70	0.0	5.3	7.9#

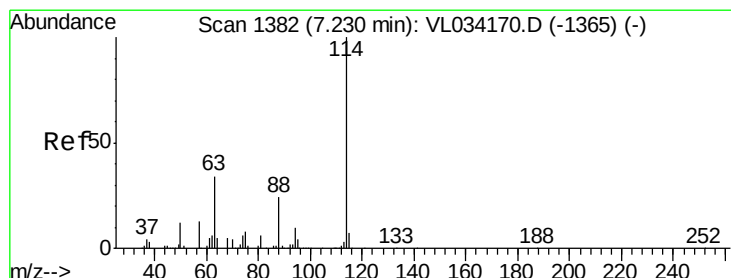
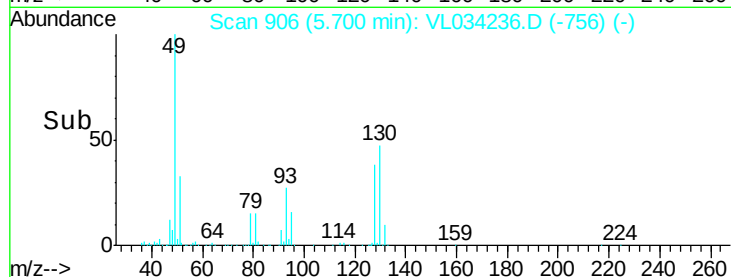
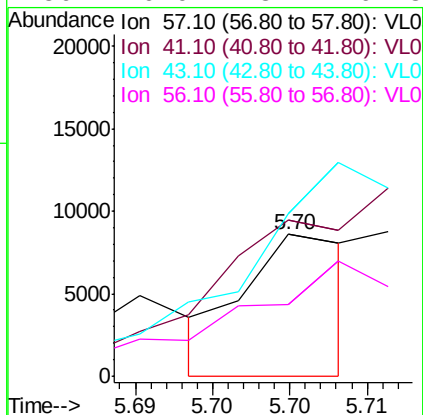
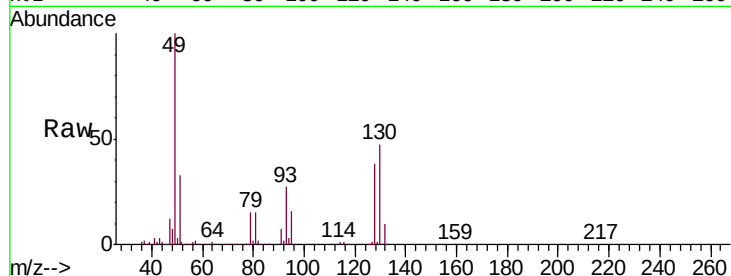




#26
Hexane
Concen: 0.037 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.02 min
Lab File: VL034236.D
Acq: 8 Oct 2019 00:16

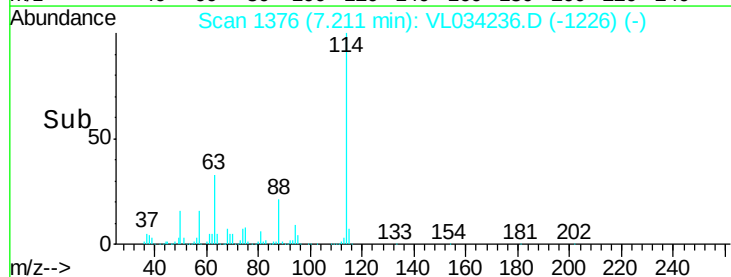
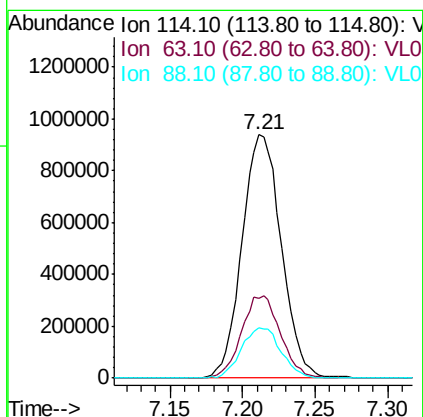
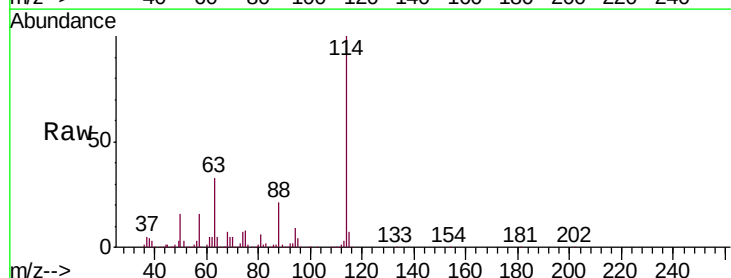
Instrument :
MSVOA_L
ClientSampled :
IA1DL

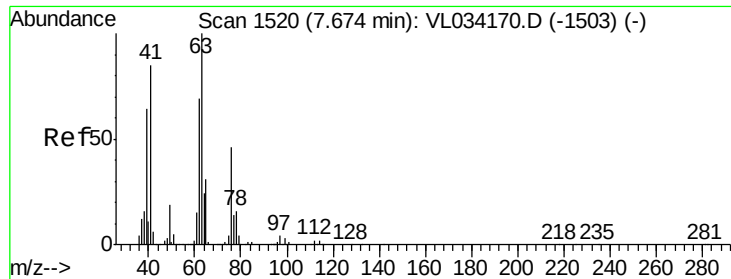
Tgt Ion: 57 Resp: 4116
Ion Ratio Lower Upper
57 100
41 0.0 78.5 117.7#
43 0.0 189.5 284.3#
56 0.0 43.2 64.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VL034236.D
Acq: 8 Oct 2019 00:16

Tgt Ion: 114 Resp: 1766261
Ion Ratio Lower Upper
114 100
63 33.7 27.8 41.6
88 20.9 17.1 25.7





#39

1,2-Dichloropropane

Concen: 6.762 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.46 min

Lab File: VL034236.D

Acq: 8 Oct 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

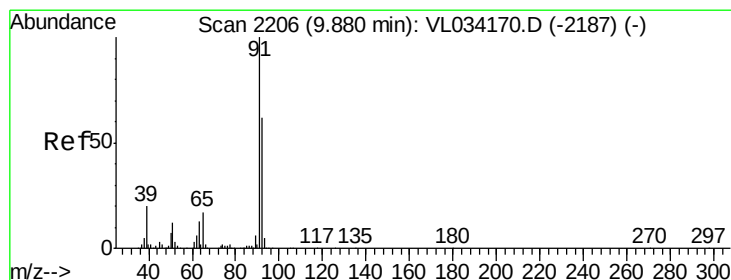
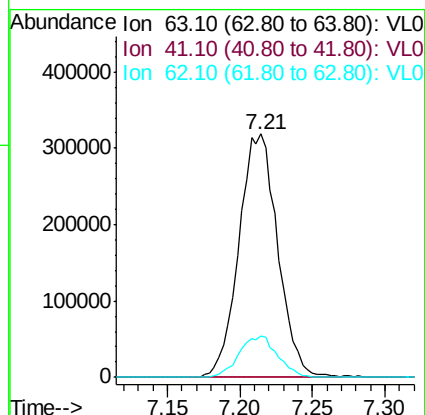
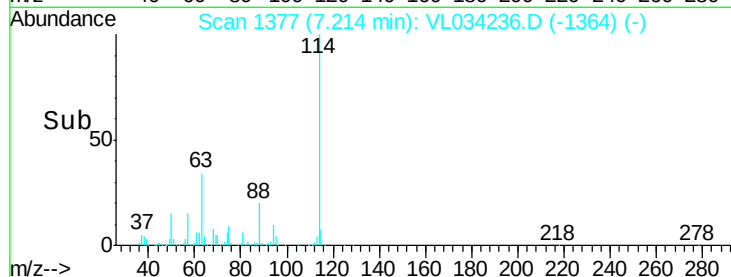
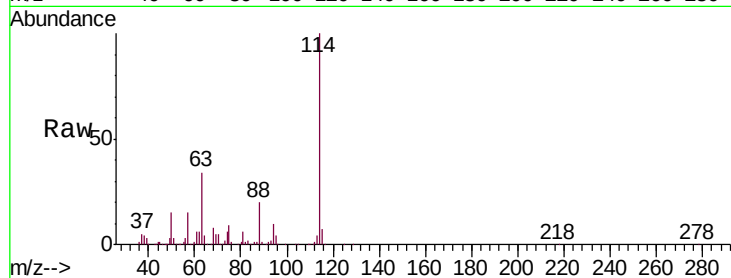
Tgt Ion: 63 Resp: 592665

Ion Ratio Lower Upper

63 100

41 0.0 68.4 102.6#

62 16.9 55.4 83.2#



#53

Toluene

Concen: 0.043 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.02 min

Lab File: VL034236.D

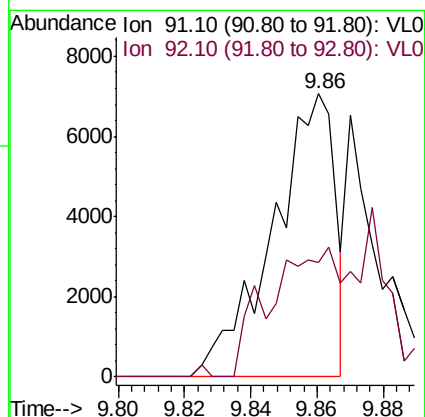
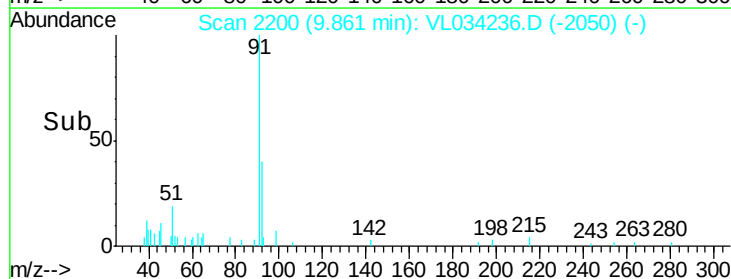
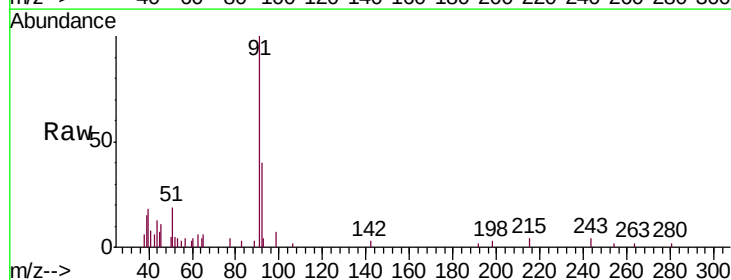
Acq: 8 Oct 2019 00:16

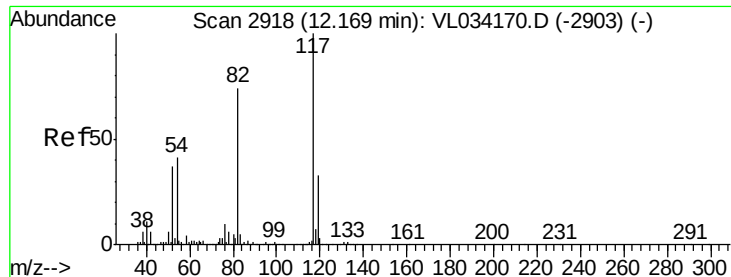
Tgt Ion: 91 Resp: 9246

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.6#

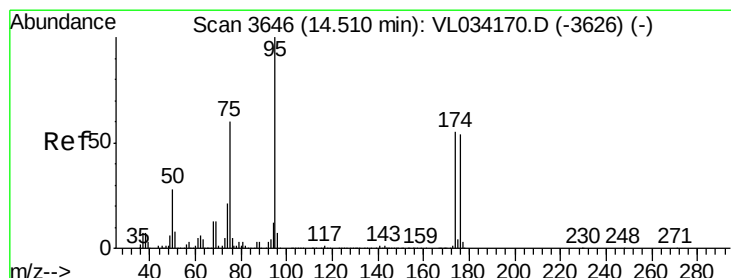
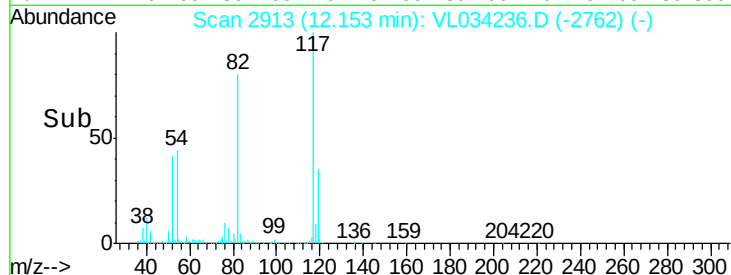
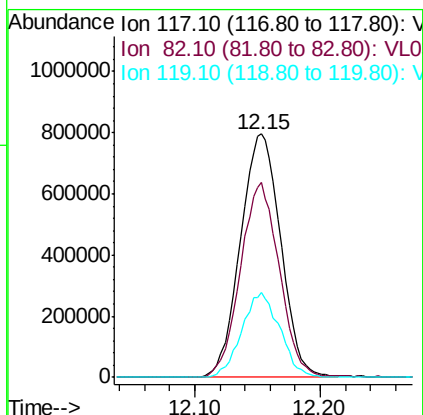
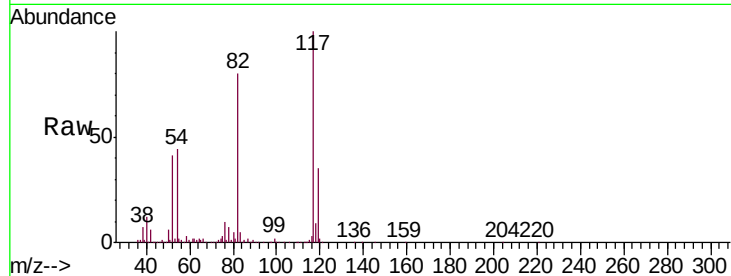




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.02 min
Lab File: VL034236.D
Acq: 8 Oct 2019 00:16

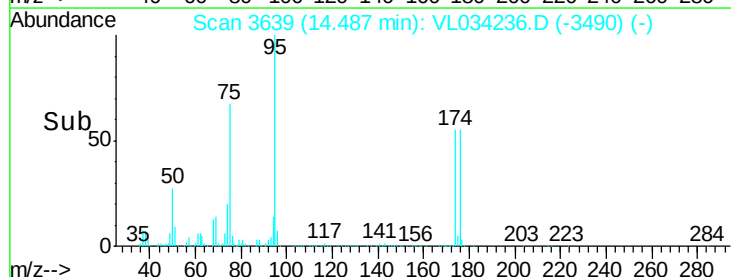
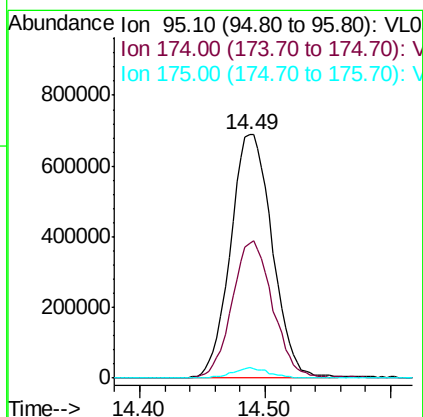
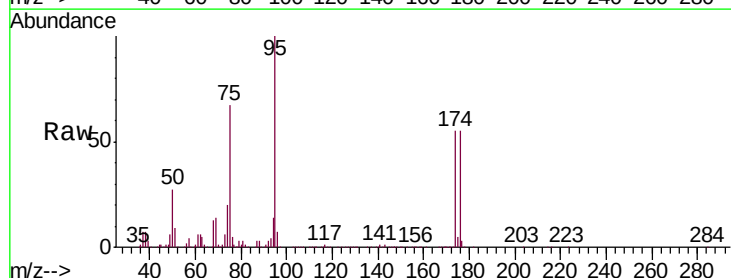
Instrument :
MSVOA_L
ClientSampleID :
IA1DL

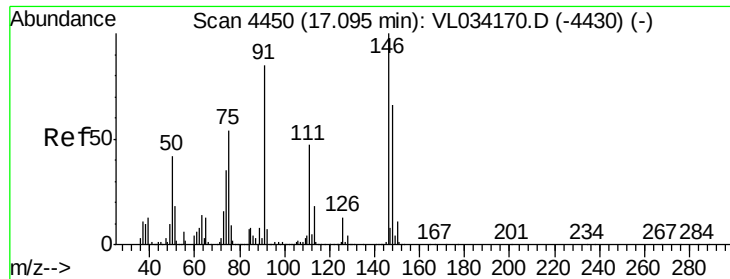
Tgt Ion: 117 Resp: 1774629
Ion Ratio Lower Upper
117 100
82 77.6 58.2 87.4
119 33.2 23.7 35.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.305 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034236.D
Acq: 8 Oct 2019 00:16

Tgt Ion: 95 Resp: 1589083
Ion Ratio Lower Upper
95 100
174 55.1 45.1 67.7
175 3.8 3.3 4.9





#75

1,3-Dichlorobenzene

Concen: 0.942 ppbv

RT: 17.21 min Scan# 4487

Delta R.T. 0.12 min

Lab File: VL034236.D

Acq: 8 Oct 2019 00:16

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

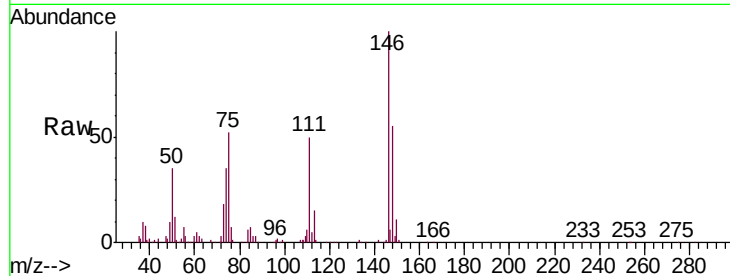
Tgt Ion:146 Resp: 138915

Ion Ratio Lower Upper

146 100

111 85.4 25.9 77.8#

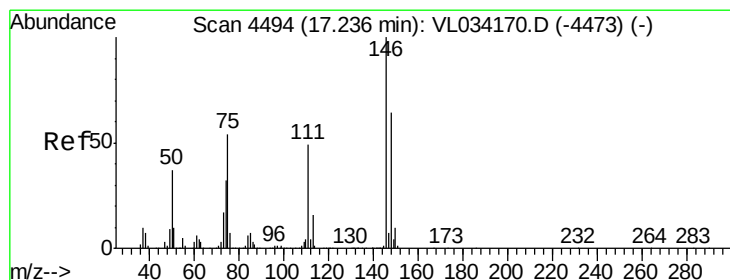
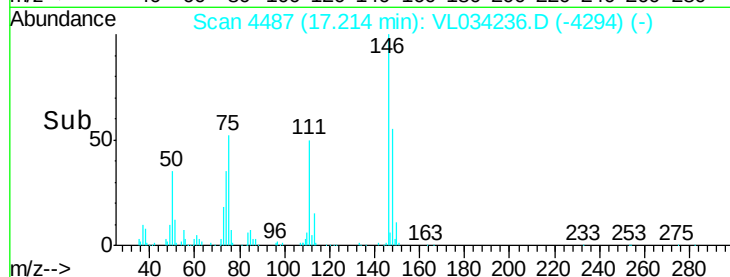
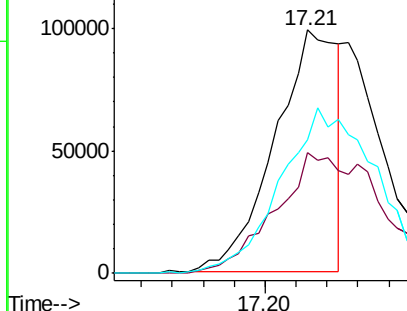
148 110.1 32.6 97.7#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.920 ppbv

RT: 17.21 min Scan# 4487

Delta R.T. -0.02 min

Lab File: VL034236.D

Acq: 8 Oct 2019 00:16

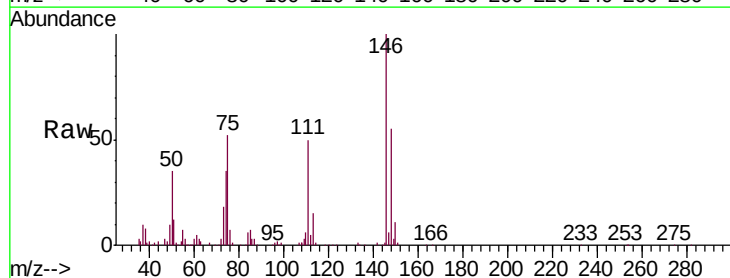
Tgt Ion:146 Resp: 138915

Ion Ratio Lower Upper

146 100

111 85.2 24.6 74.0#

148 109.9 32.4 97.0#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

