

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081219\
 Data File : VL034111.D
 Acq On : 12 Aug 2019 21:34
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Aug 13 04:05:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 17:09:48 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

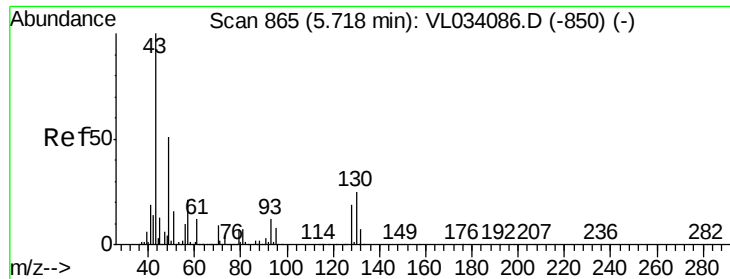
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1188369	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2175457	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.17	117	2250521	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1958125	10.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.20%

Target Compounds					Qvalue
3) Chlorodifluoromethane	2.98	51	7852	0.057 ppbv	97
4) Chloromethane	3.14	50	4232	0.048 ppbv #	80
8) Dichlorotetrafluoroethane	3.18	85	8436	0.050 ppbv	93
9) Propene	3.00	41	2930	0.036 ppbv #	10
11) Trichlorofluoromethane	3.96	101	7154	0.041 ppbv	100
13) Ethanol	3.64	45	7339	0.321 ppbv	98
15) Acetone	3.88	43	45484	0.268 ppbv	93
16) 1,3-Butadiene	3.33	39	3755	0.045 ppbv	84
19) Isopropyl Alcohol	4.01	45	6134	0.046 ppbv #	44
20) Methylene Chloride	4.37	84	3251	0.064 ppbv #	90
24) 1,1-Dichloroethane	5.04	63	7589	0.045 ppbv #	90
25) Ethyl Acetate	5.73	43	14632	0.044 ppbv #	94
30) Cyclohexane	7.19	84	4289	0.038 ppbv #	11
36) Benzene	6.94	78	12175	0.049 ppbv #	78
39) 1,2-Dichloropropane	7.23	63	674607	6.762 ppbv #	23
53) Toluene	9.88	91	14368	0.050 ppbv #	19
59) m/p-Xylene	13.08	91	10298	0.034 ppbv #	29

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 862

Delta R.T. -0.01 min

Lab File: VL034111.D

Acq: 12 Aug 2019 21:34

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

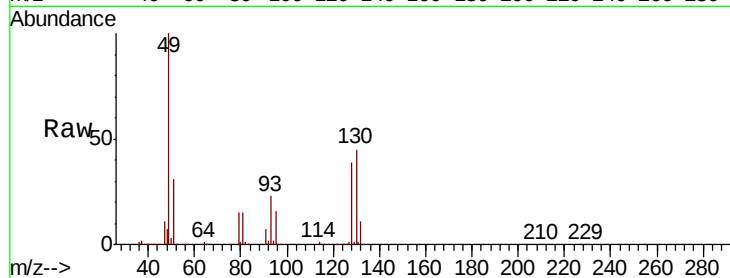
Tgt Ion: 49 Resp: 1188369

Ion Ratio Lower Upper

49 100

128 38.3 19.5 58.5

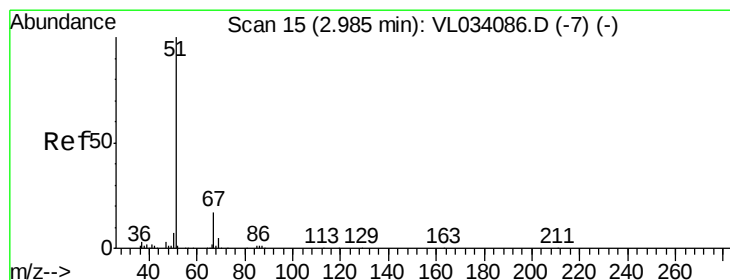
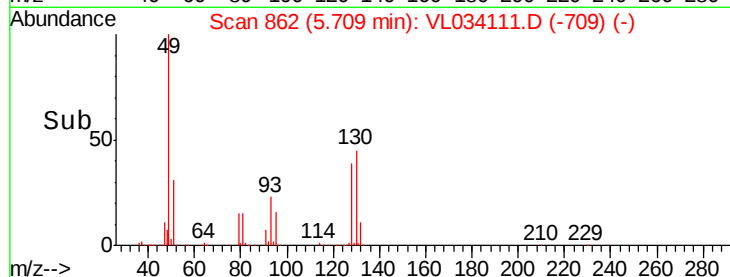
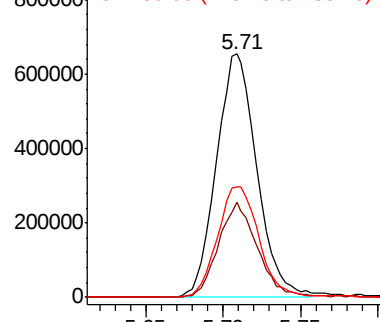
130 47.6 25.4 76.0



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: 0.057 ppbv

RT: 2.98 min Scan# 14

Delta R.T. -0.00 min

Lab File: VL034111.D

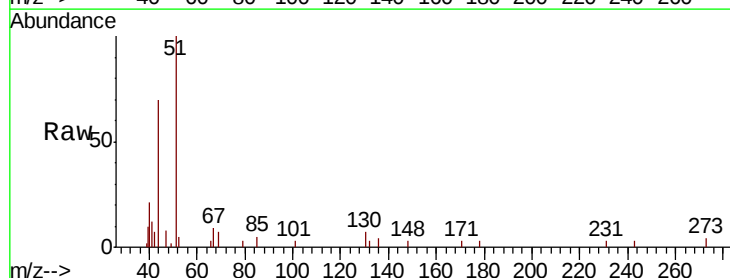
Acq: 12 Aug 2019 21:34

Tgt Ion: 51 Resp: 7852

Ion Ratio Lower Upper

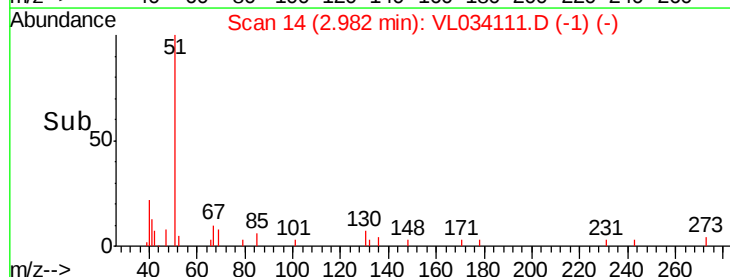
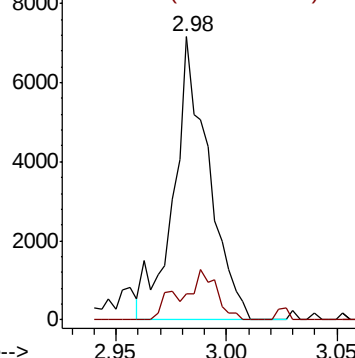
51 100

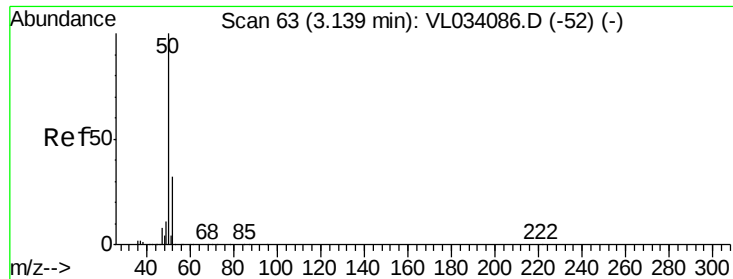
67 17.9 13.3 19.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

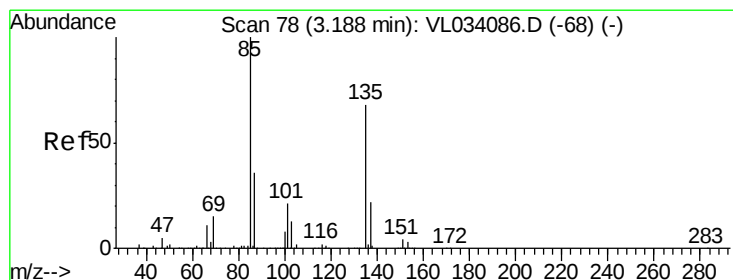
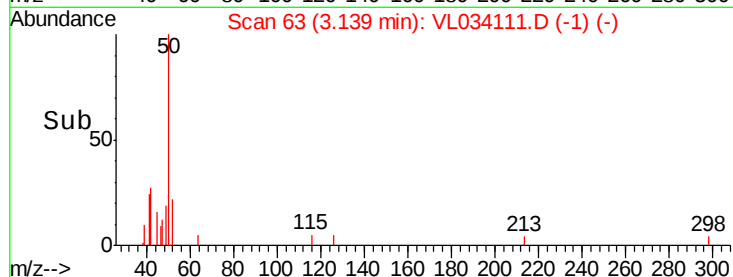
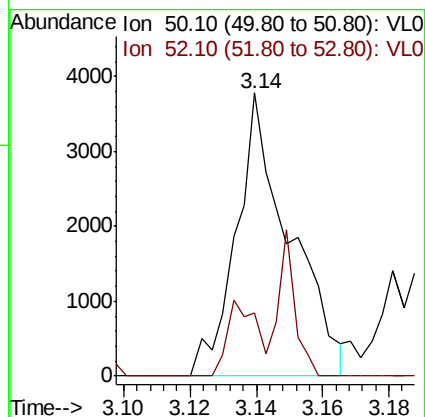
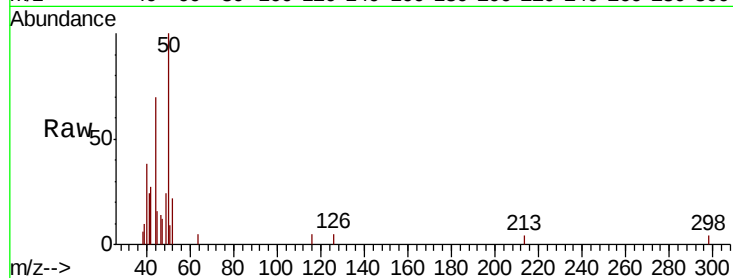




#4
Chloromethane
Concen: 0.048 ppbv
RT: 3.14 min Scan# 63
Delta R.T. 0.00 min
Lab File: VL034111.D
Acq: 12 Aug 2019 21:34

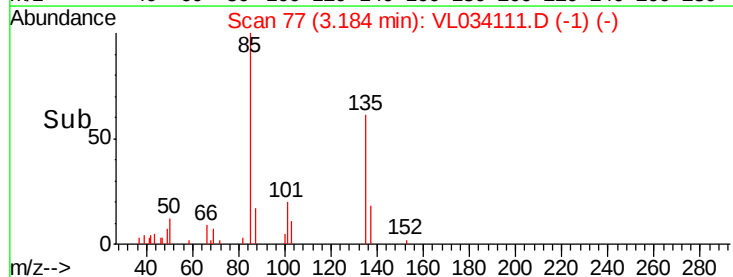
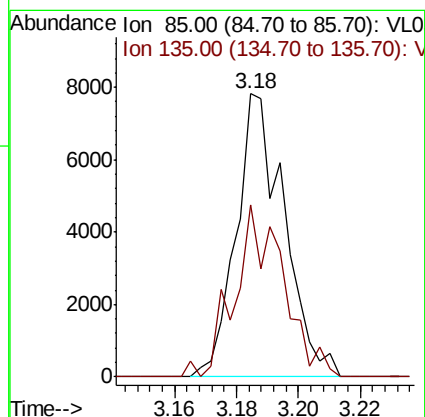
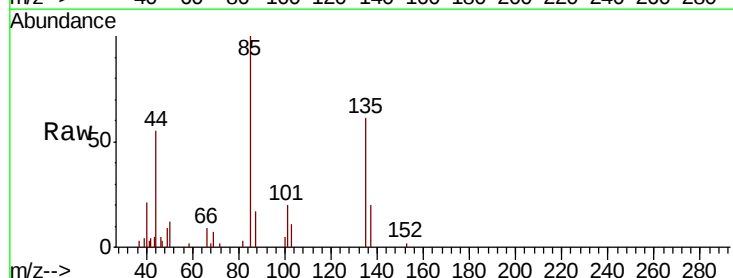
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

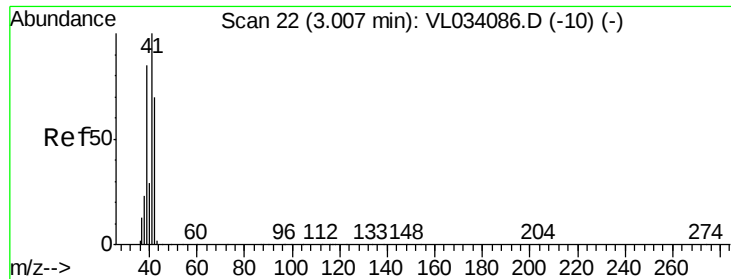
Tgt Ion: 50 Resp: 4232
Ion Ratio Lower Upper
50 100
52 20.7 25.7 38.5#



#8
Dichlorotetrafluoroethane
Concen: 0.050 ppbv
RT: 3.18 min Scan# 77
Delta R.T. -0.00 min
Lab File: VL034111.D
Acq: 12 Aug 2019 21:34

Tgt Ion: 85 Resp: 8436
Ion Ratio Lower Upper
85 100
135 61.7 54.0 81.0





#9

Propene

Concen: 0.036 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL034111.D

Acq: 12 Aug 2019 21:34

Instrument :

MSVOA_L

ClientSampleId :

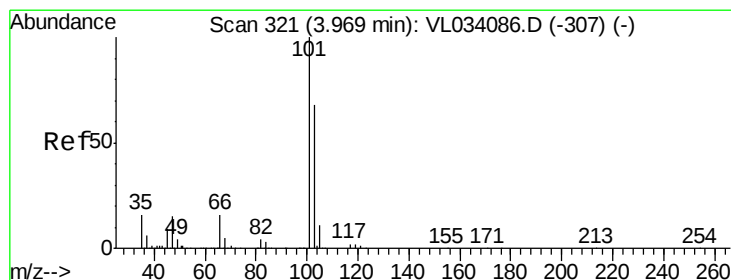
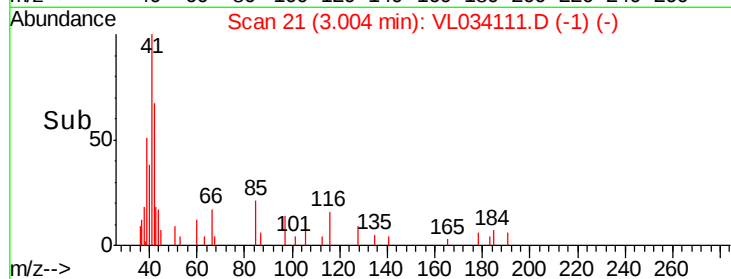
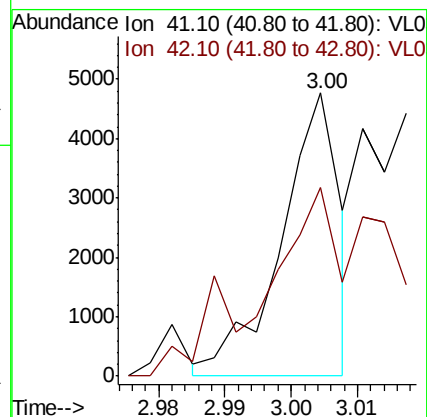
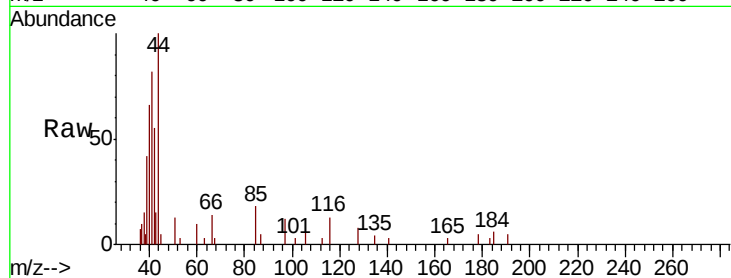
VIBLK

Tgt Ion: 41 Resp: 2930

Ion Ratio Lower Upper

41 100

42 143.3 55.8 83.6#



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 3.96 min Scan# 318

Delta R.T. -0.01 min

Lab File: VL034111.D

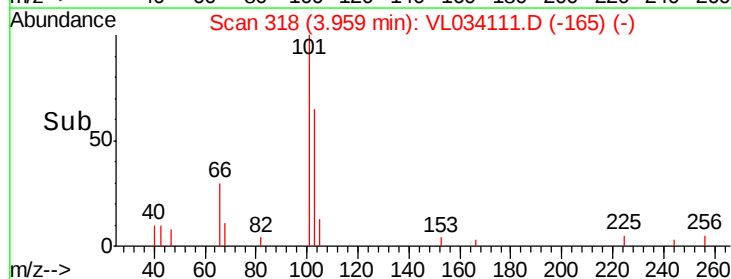
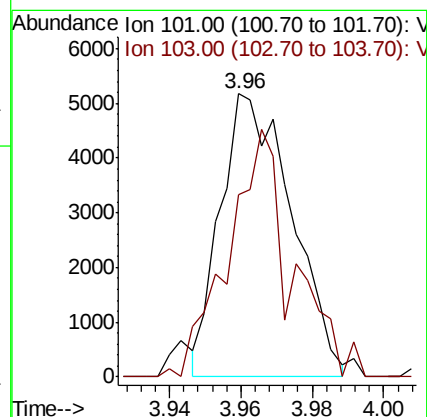
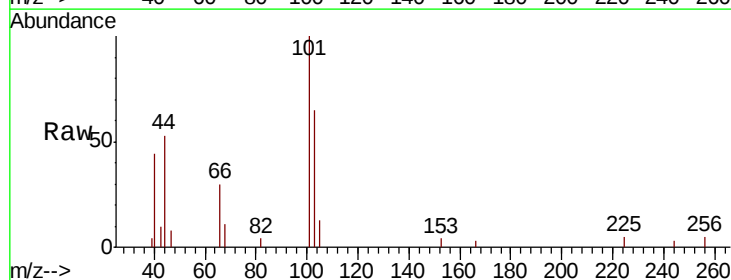
Acq: 12 Aug 2019 21:34

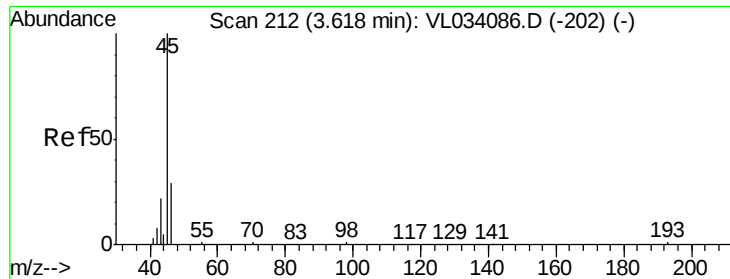
Tgt Ion: 101 Resp: 7154

Ion Ratio Lower Upper

101 100

103 67.6 54.3 81.5





#13

Ethanol

Concen: 0.321 ppbv

RT: 3.64 min Scan# 218

Delta R.T. 0.02 min

Lab File: VL034111.D

Acq: 12 Aug 2019 21:34

Instrument :

MSVOA_L

ClientSampled :

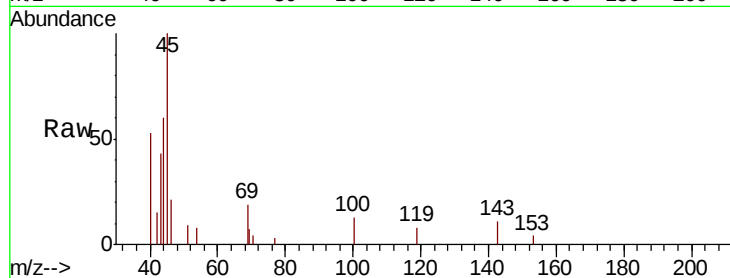
VIBLK

Tgt Ion: 45 Resp: 7339

Ion Ratio Lower Upper

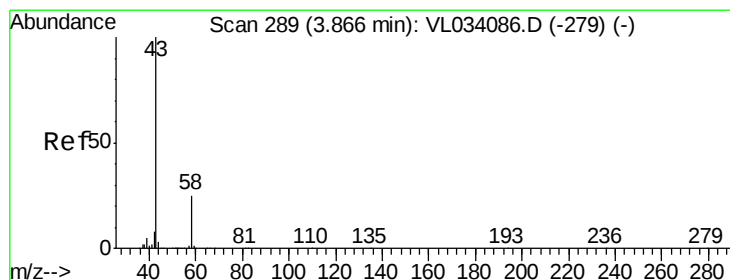
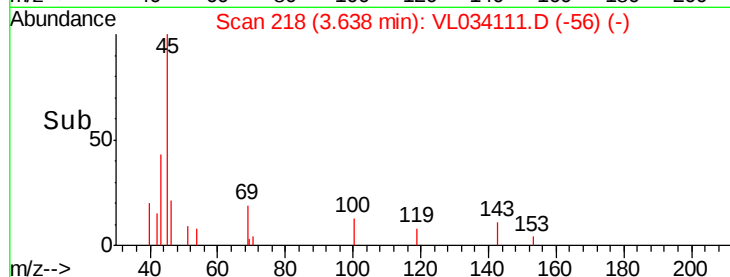
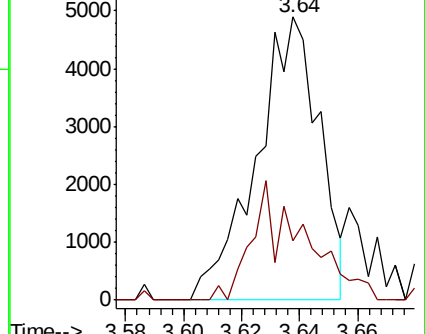
45 100

46 35.9 14.9 59.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.268 ppbv

RT: 3.88 min Scan# 294

Delta R.T. 0.02 min

Lab File: VL034111.D

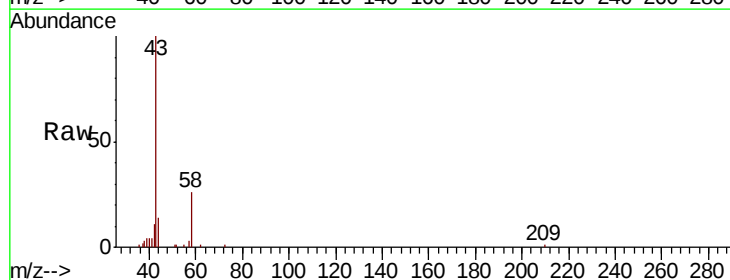
Acq: 12 Aug 2019 21:34

Tgt Ion: 43 Resp: 45484

Ion Ratio Lower Upper

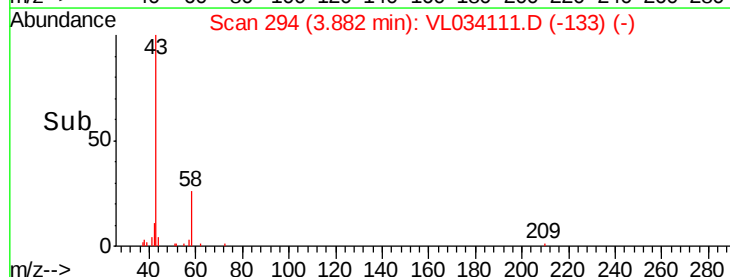
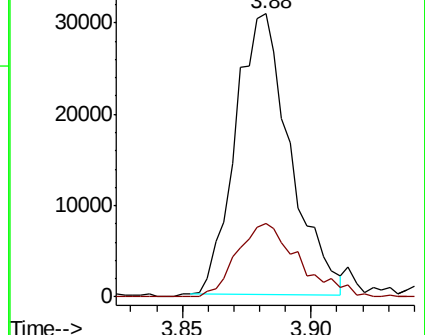
43 100

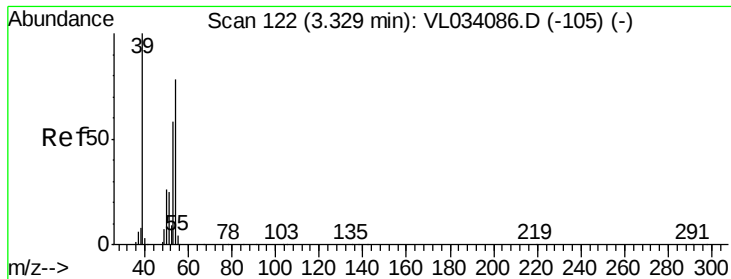
58 29.5 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

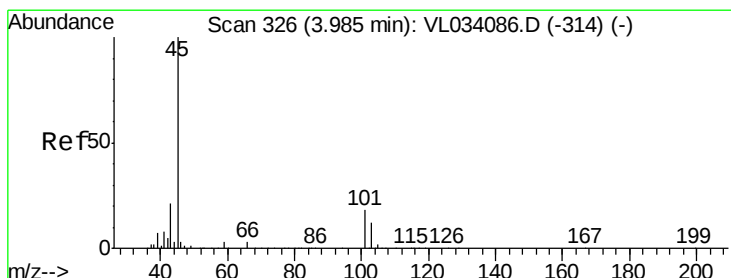
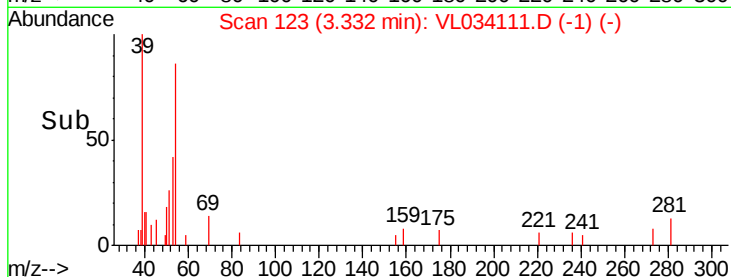
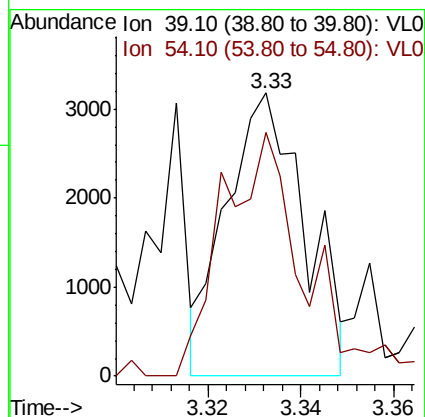
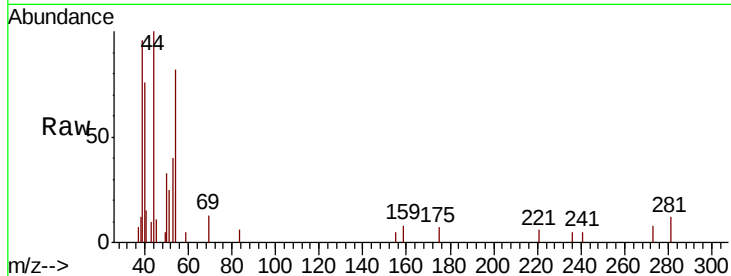




#16
 1,3-Butadiene
 Concen: 0.045 ppbv
 RT: 3.33 min Scan# 123
 Delta R.T. 0.00 min
 Lab File: VL034111.D
 Acq: 12 Aug 2019 21:34

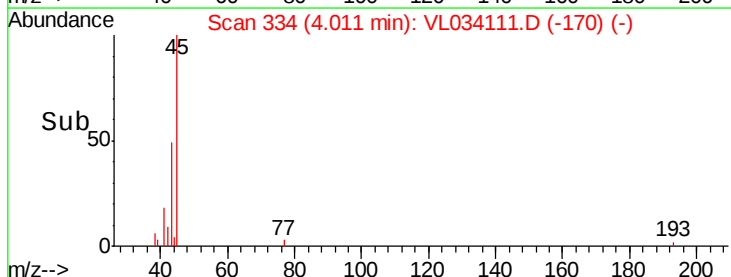
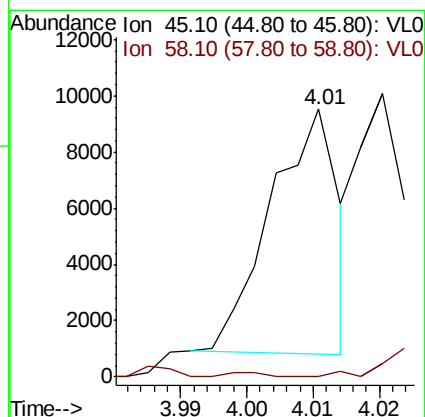
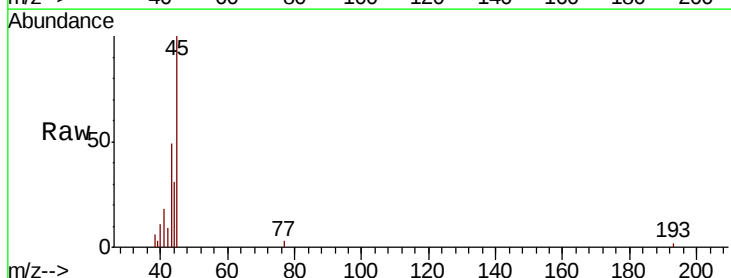
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

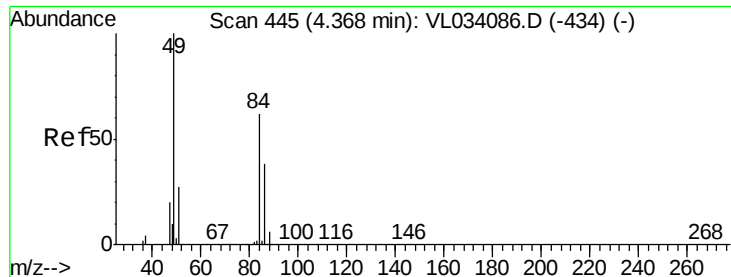
Tgt Ion: 39 Resp: 3755
 Ion Ratio Lower Upper
 39 100
 54 92.3 62.7 94.1



#19
 Isopropyl Alcohol
 Concen: 0.046 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.03 min
 Lab File: VL034111.D
 Acq: 12 Aug 2019 21:34

Tgt Ion: 45 Resp: 6134
 Ion Ratio Lower Upper
 45 100
 58 0.0 24.6 37.0#

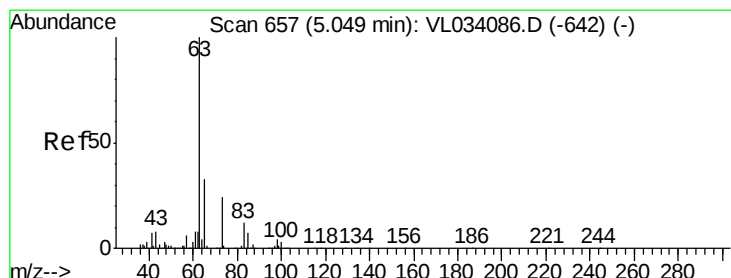
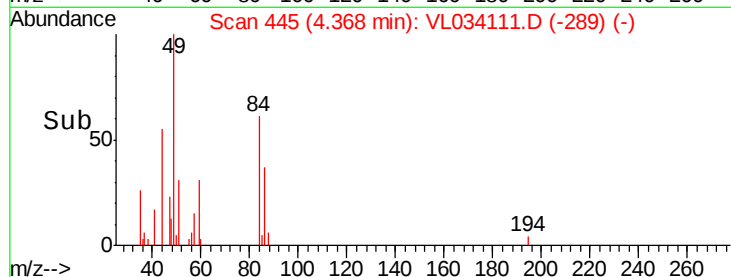
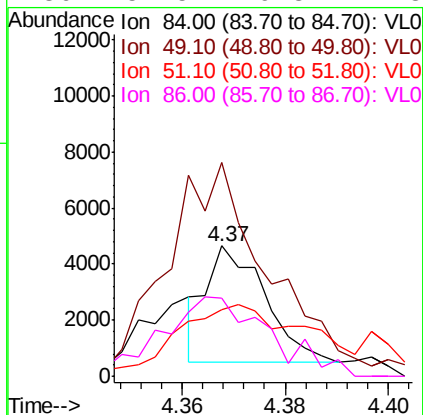
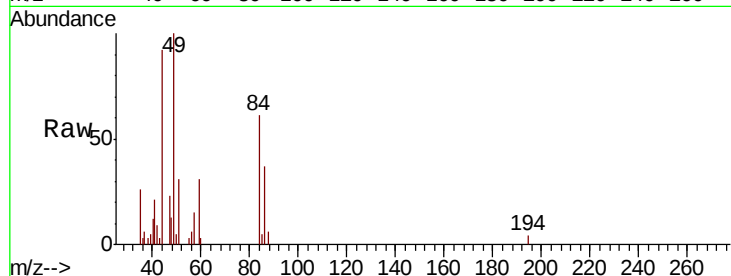




#20
Methylene Chloride
Concen: 0.064 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.00 min
Lab File: VL034111.D
Acq: 12 Aug 2019 21:34

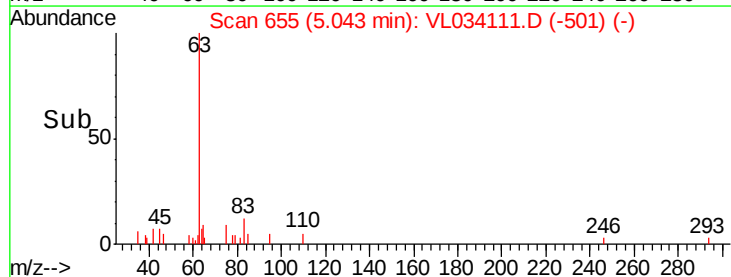
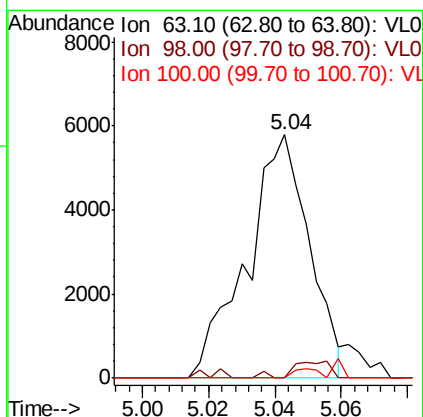
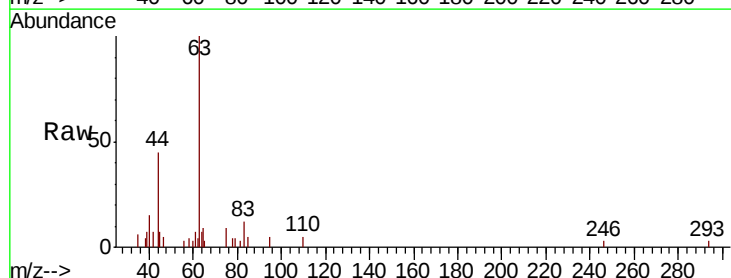
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

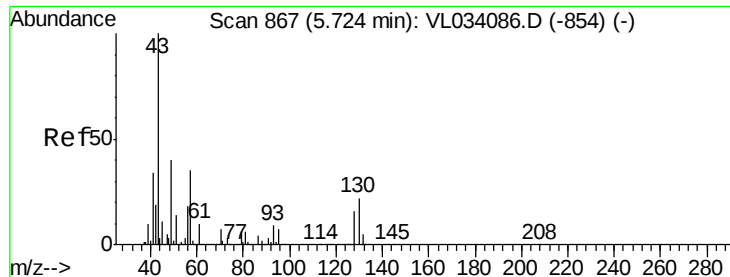
Tgt Ion:	84	Resp:	3251
Ion	Ratio	Lower	Upper
84	100		
49	170.7	129.7	194.5
51	31.2	35.8	53.8#
86	52.5	49.8	74.8



#24
1,1-Dichloroethane
Concen: 0.045 ppbv
RT: 5.04 min Scan# 655
Delta R.T. -0.01 min
Lab File: VL034111.D
Acq: 12 Aug 2019 21:34

Tgt Ion:	63	Resp:	7589
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	6.0#
100	0.0	1.3	3.8#





#25

Ethyl Acetate

Concen: 0.044 ppbv

RT: 5.73 min Scan# 869

Delta R.T. 0.01 min

Lab File: VL034111.D

Acq: 12 Aug 2019 21:34

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion: 43 Resp: 14632

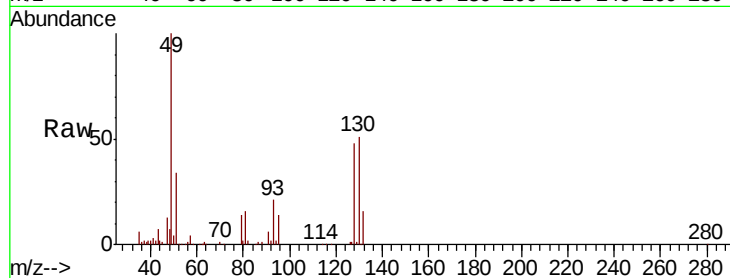
Ion Ratio Lower Upper

43 100

45 14.6 8.4 12.6#

61 7.3 7.3 10.9

70 7.4 5.8 8.6

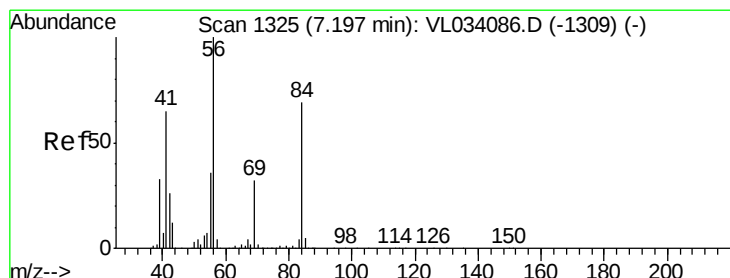
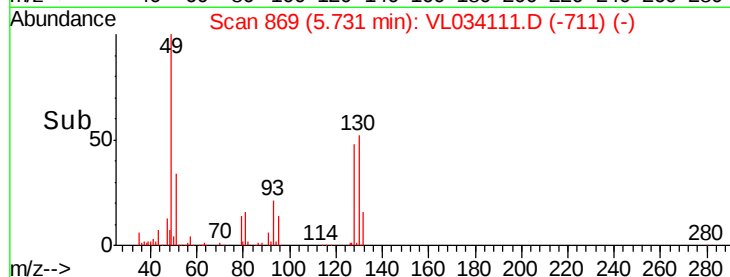
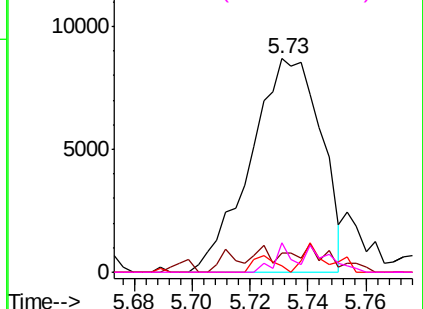


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#30

Cyclohexane

Concen: 0.038 ppbv

RT: 7.19 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VL034111.D

Acq: 12 Aug 2019 21:34

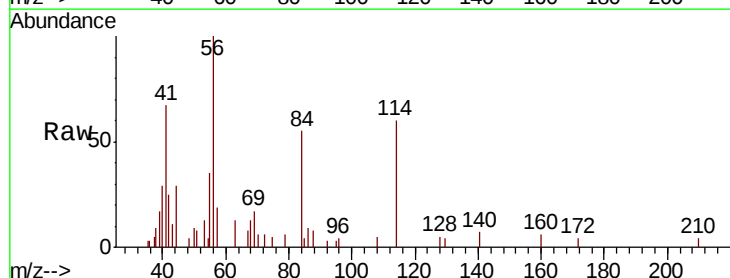
Tgt Ion: 84 Resp: 4289

Ion Ratio Lower Upper

84 100

56 0.0 122.6 184.0#

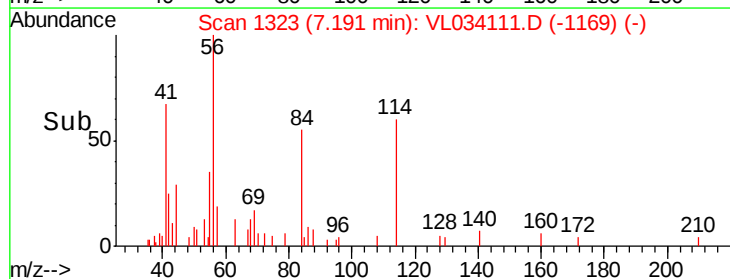
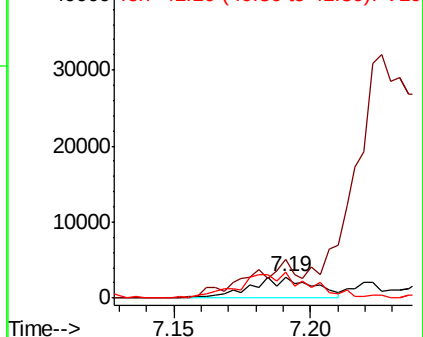
41 142.0 80.1 120.1#

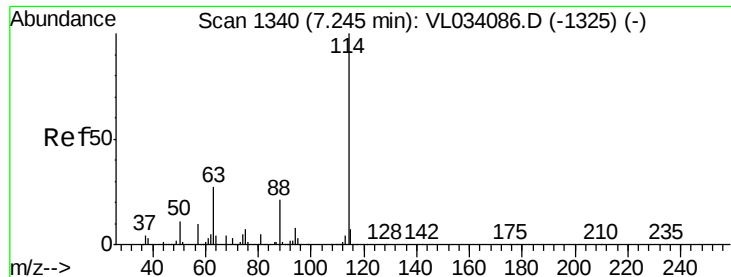


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

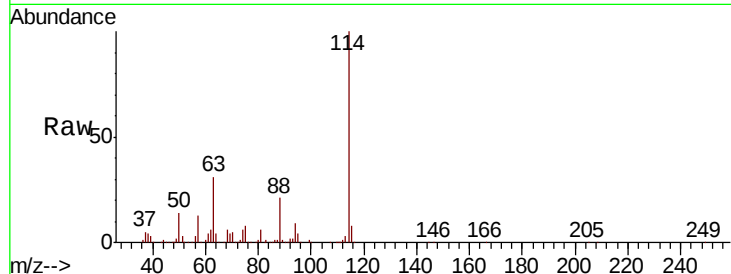




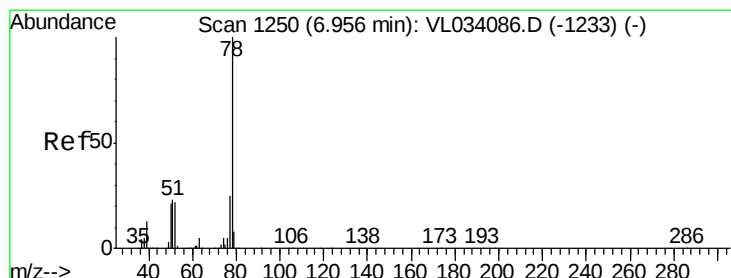
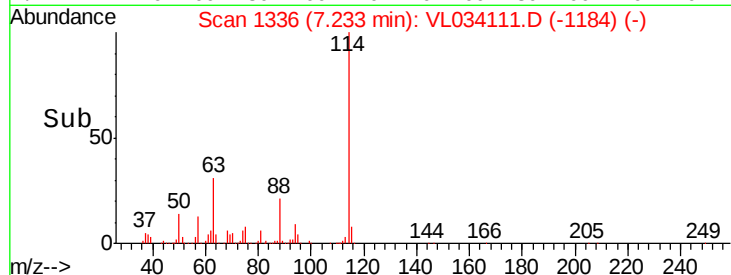
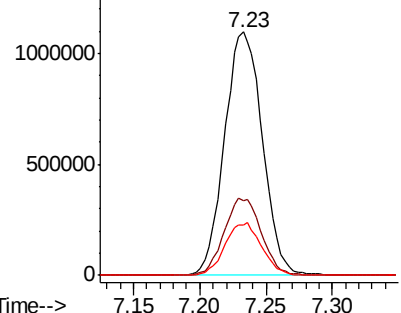
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1336
 Delta R.T. -0.01 min
 Lab File: VL034111.D
 Acq: 12 Aug 2019 21:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Tgt Ion: 114 Resp: 2175457
 Ion Ratio Lower Upper
 114 100
 63 31.2 22.5 33.7
 88 21.0 15.7 23.5

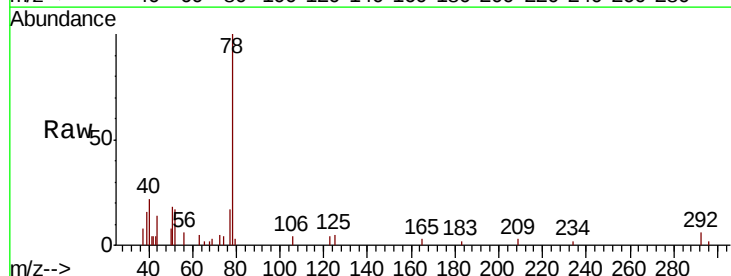


Abundance Ion 114.10 (113.80 to 114.80): VL0
 1500000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

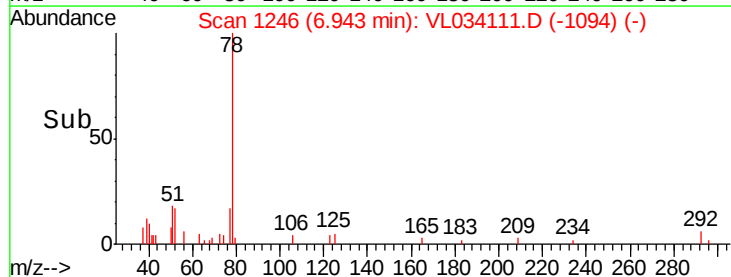
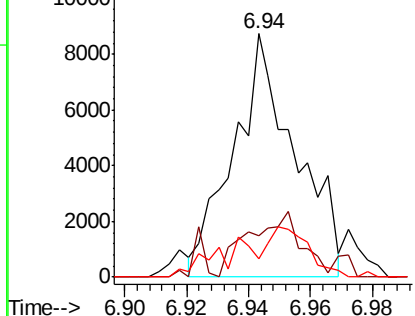


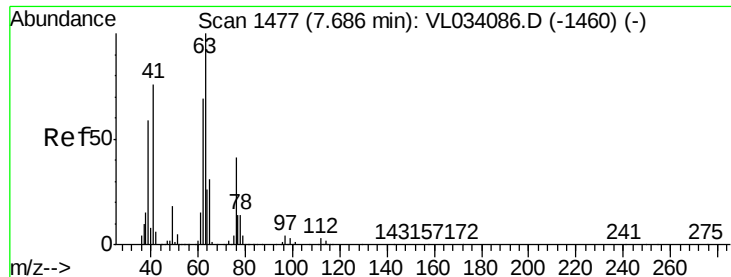
#36
 Benzene
 Concen: 0.049 ppbv
 RT: 6.94 min Scan# 1246
 Delta R.T. -0.01 min
 Lab File: VL034111.D
 Acq: 12 Aug 2019 21:34

Tgt Ion: 78 Resp: 12175
 Ion Ratio Lower Upper
 78 100
 77 18.3 19.9 29.9#
 50 5.5 16.7 25.1#



Abundance Ion 78.10 (77.80 to 78.80): VL0
 12000 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0

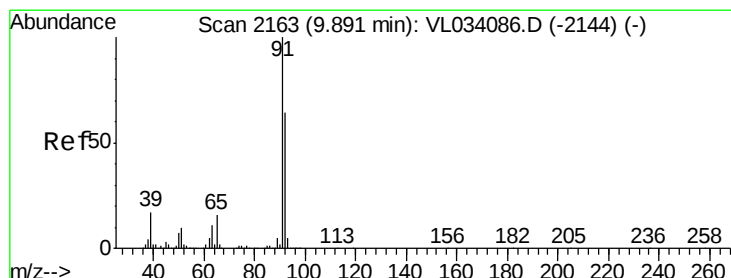
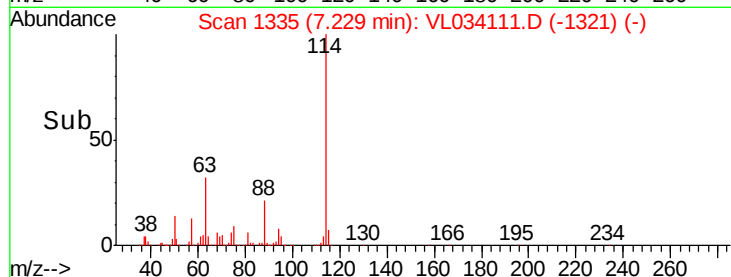
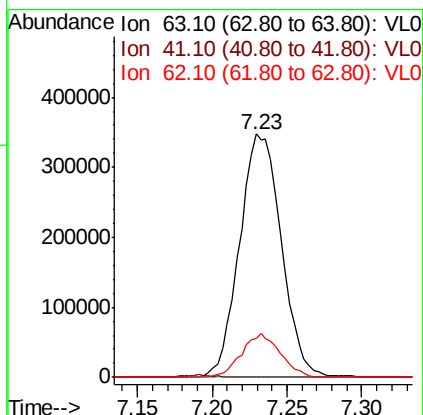
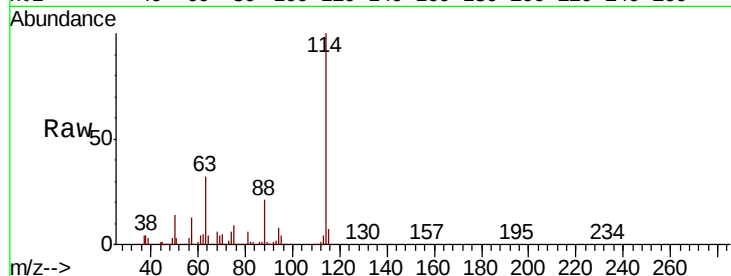




#39
 1,2-Dichloropropane
 Concen: 6.762 ppbv
 RT: 7.23 min Scan# 1335
 Delta R.T. -0.46 min
 Lab File: VL034111.D
 Acq: 12 Aug 2019 21:34

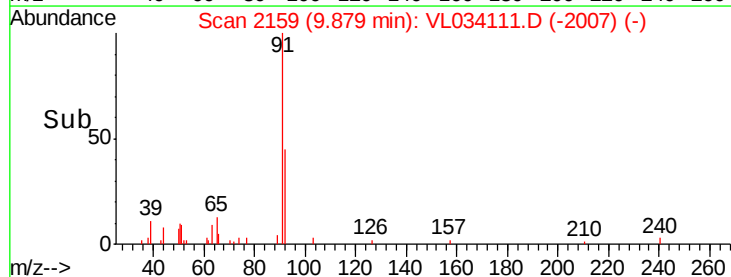
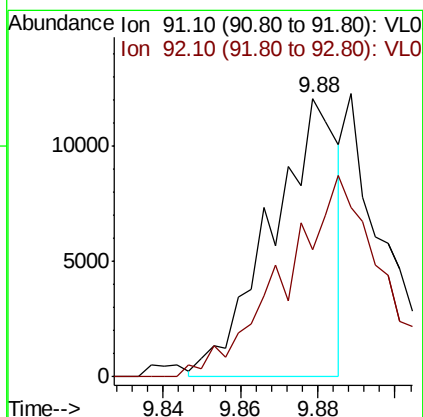
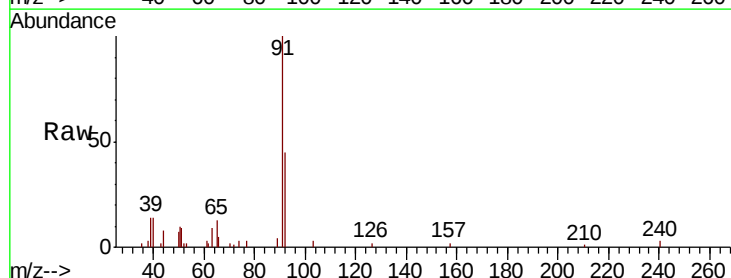
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

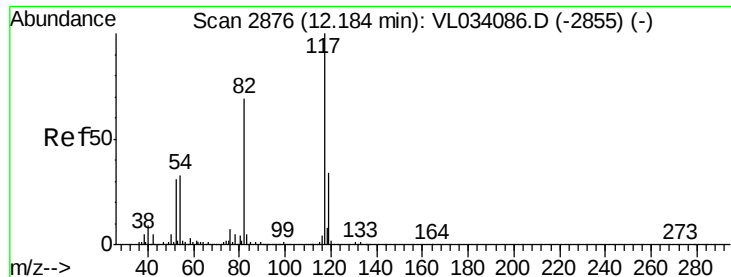
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.6	91.0#
62	16.1	55.0	82.6#



#53
 Toluene
 Concen: 0.050 ppbv
 RT: 9.88 min Scan# 2159
 Delta R.T. -0.01 min
 Lab File: VL034111.D
 Acq: 12 Aug 2019 21:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	50.3	75.5#

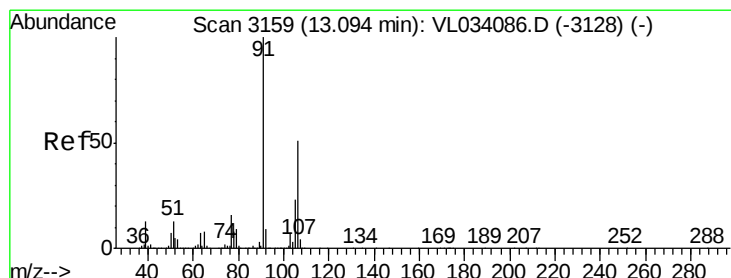
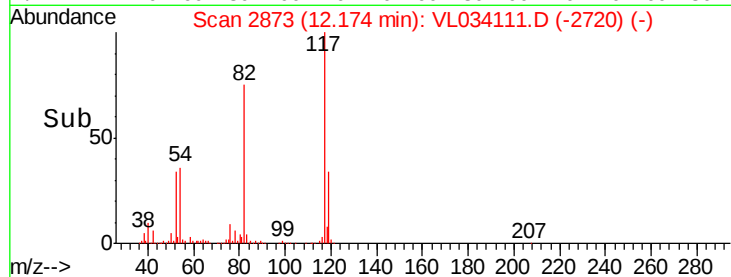
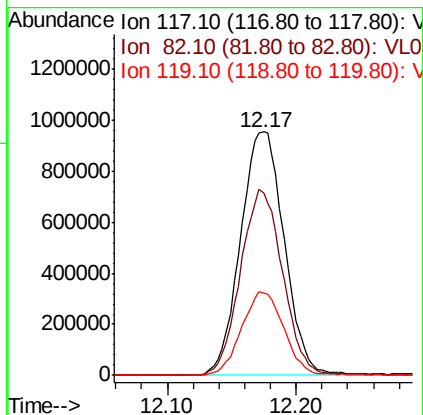
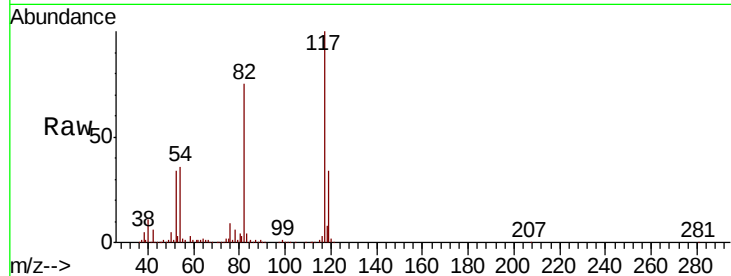




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2873
Delta R.T. -0.01 min
Lab File: VL034111.D
Acq: 12 Aug 2019 21:34

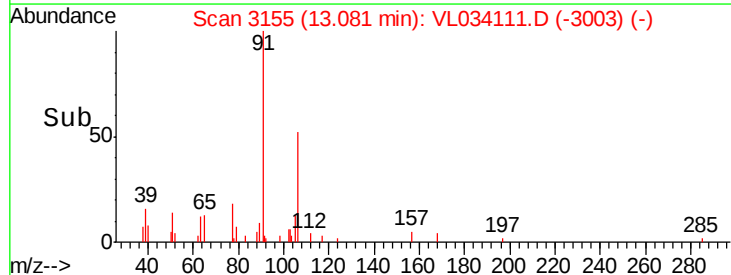
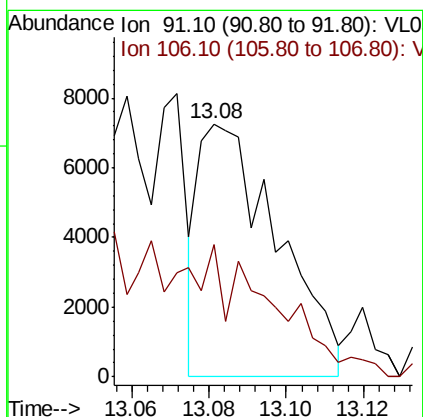
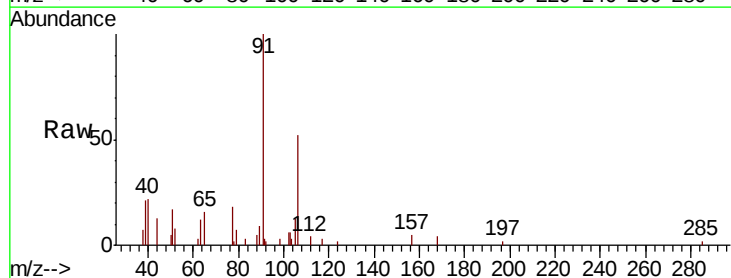
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

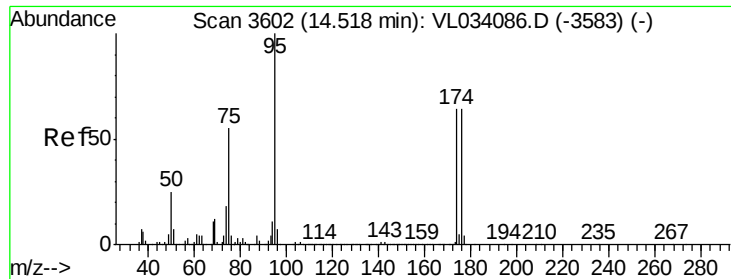
Tgt Ion: 117 Resp: 2250521
Ion Ratio Lower Upper
117 100
82 74.1 52.2 78.4
119 33.5 44.8 67.2#



#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 13.08 min Scan# 3155
Delta R.T. -0.01 min
Lab File: VL034111.D
Acq: 12 Aug 2019 21:34

Tgt Ion: 91 Resp: 10298
Ion Ratio Lower Upper
91 100
106 0.0 38.7 58.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.723 ppbv

RT: 14.51 min Scan# 3599

Delta R.T. -0.01 min

Lab File: VL034111.D

Acq: 12 Aug 2019 21:34

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion: 95 Resp: 1958125

Ion Ratio Lower Upper

95 100

174 62.3 53.0 79.6

175 4.4 4.2 6.2

