

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034438.D
 Acq On : 2 Dec 2019 22:38
 Operator : SY/AP
 Sample : K6068-01DL2 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL2

Quant Time: Dec 03 02:52:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	756749	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1513742	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1488395	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1269632	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

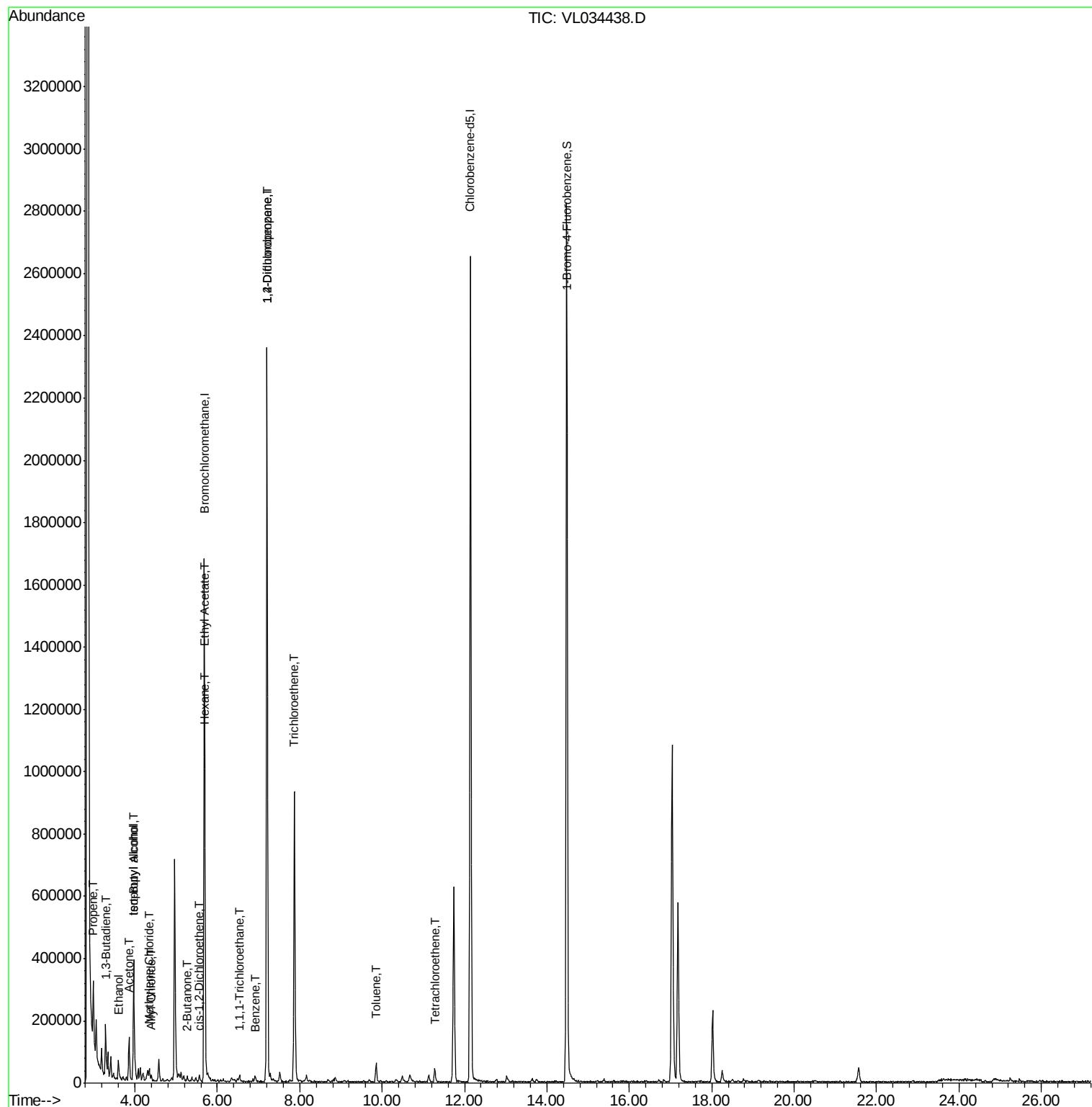
Target Compounds					Qvalue
9) Propene	2.99	41	73996	1.765	ppbv 98
13) Ethanol	3.60	45	57556	4.929	ppbv 93
15) Acetone	3.85	43	128914	1.190	ppbv 98
16) 1,3-Butadiene	3.29	39	52914	1.121	ppbv # 9
17) tert-Butyl alcohol	3.96	59	11732	0.129	ppbv 96
19) Isopropyl Alcohol	3.97	45	379342	5.461	ppbv # 99
20) Methylene Chloride	4.34	84	4535	0.118	ppbv 93
21) Allyl Chloride	4.40	41	2022	0.031	ppbv # 1
25) Ethyl Acetate	5.70	43	6880	0.036	ppbv # 83
26) Hexane	5.71	57	6171	0.074	ppbv # 38
31) cis-1,2-Dichloroethene	5.56	61	6761	0.079	ppbv 88
32) 1,1,1-Trichloroethane	6.54	97	6470	0.051	ppbv # 49
34) 2-Butanone	5.26	43	5328	0.043	ppbv # 5
36) Benzene	6.92	78	5668	0.037	ppbv # 83
38) Trichloroethene	7.88	130	257284	4.143	ppbv 96
39) 1,2-Dichloropropane	7.20	63	447111	7.670	ppbv # 23
52) Tetrachloroethene	11.28	164	2131	0.033	ppbv # 13
53) Toluene	9.85	91	17002	0.099	ppbv # 21

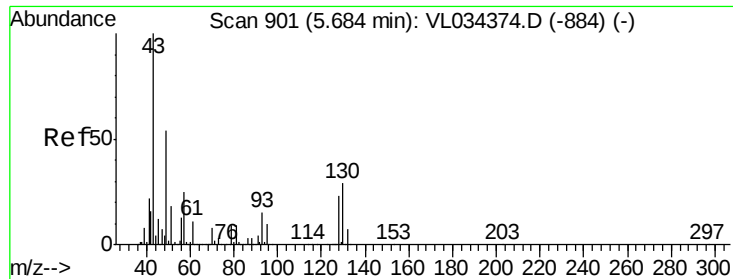
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL2

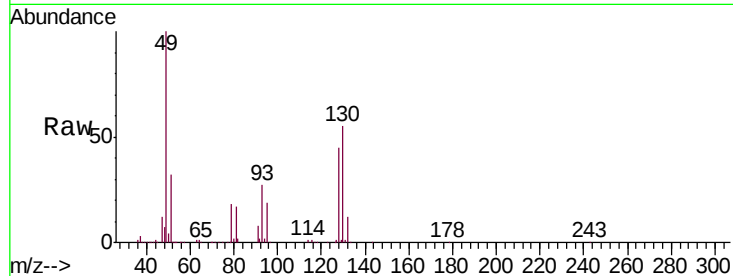
Tgt Ion: 49 Resp: 756749

Ion Ratio Lower Upper

49 100

128 44.5 21.8 65.3

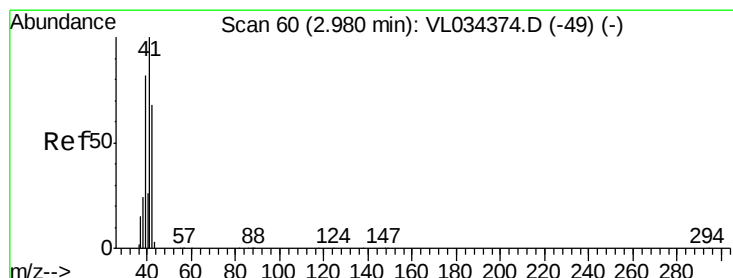
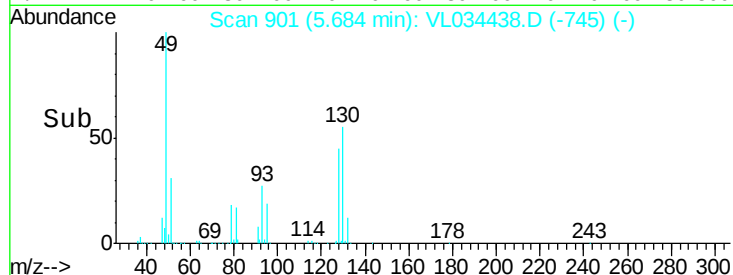
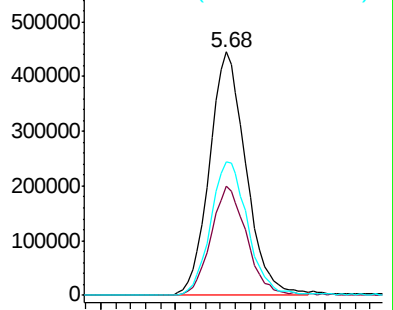
130 56.7 28.0 84.0



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



#9

Propene

Concen: 1.765 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034438.D

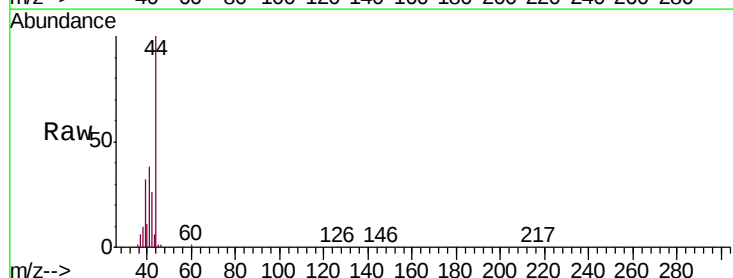
Acq: 2 Dec 2019 22:38

Tgt Ion: 41 Resp: 73996

Ion Ratio Lower Upper

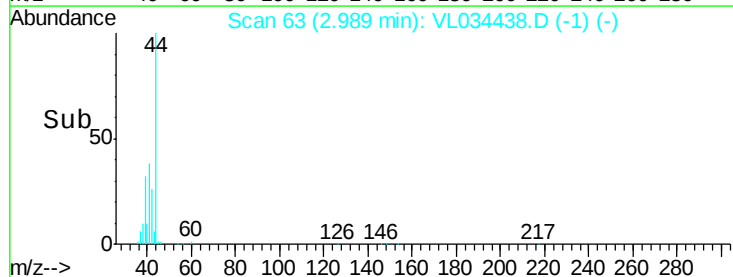
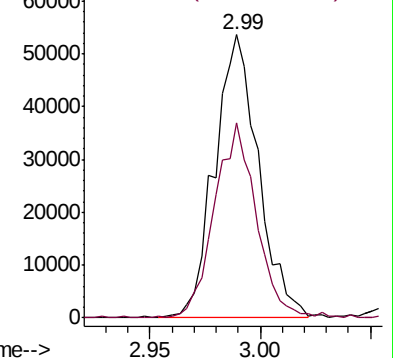
41 100

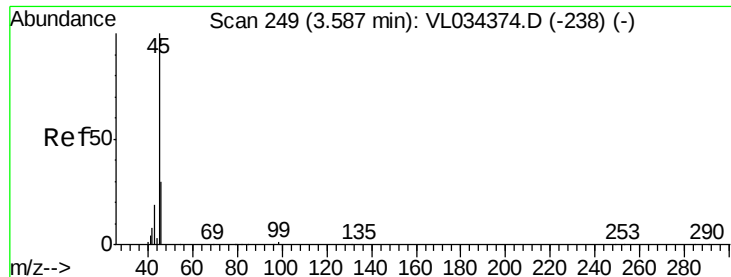
42 66.5 54.6 82.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 4.929 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.01 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Instrument :

MSVOA_L

ClientSampleId :

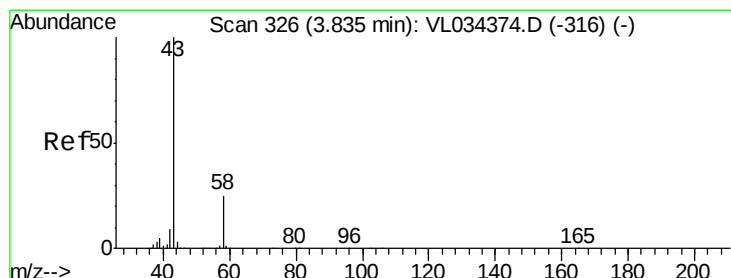
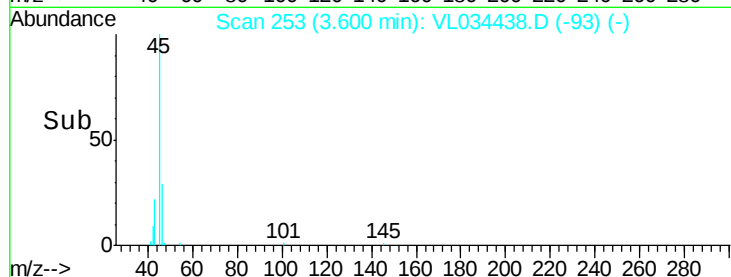
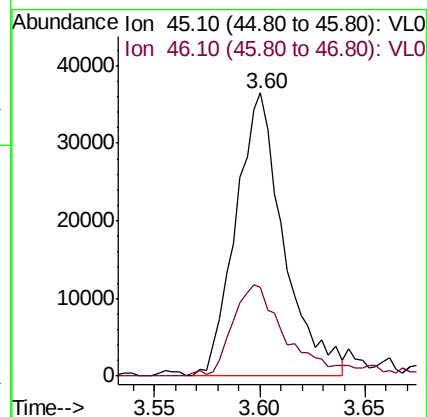
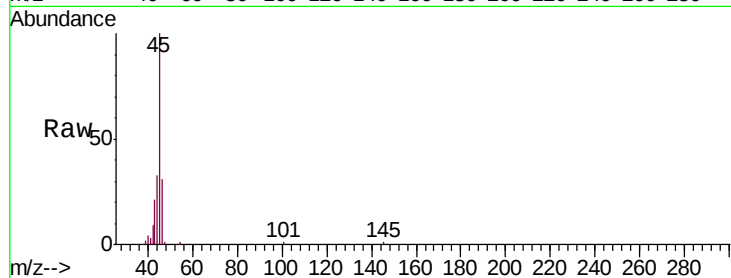
SV-1DL2

Tgt Ion: 45 Resp: 57556

Ion Ratio Lower Upper

45 100

46 38.5 13.8 55.4



#15

Acetone

Concen: 1.190 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL034438.D

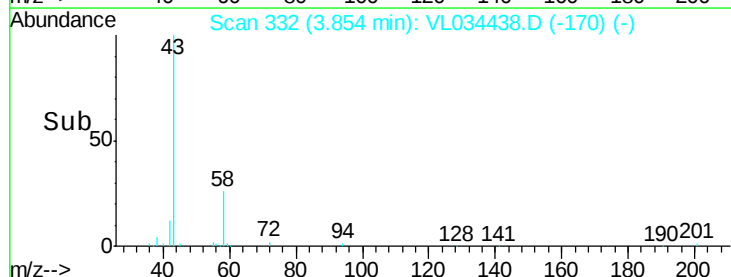
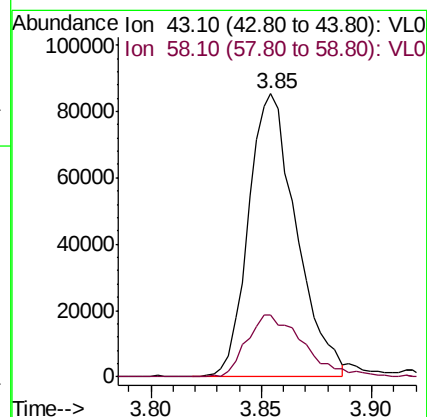
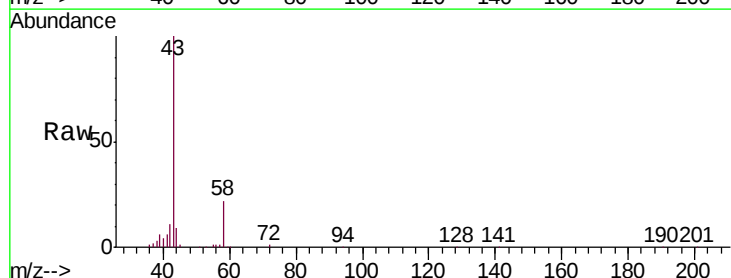
Acq: 2 Dec 2019 22:38

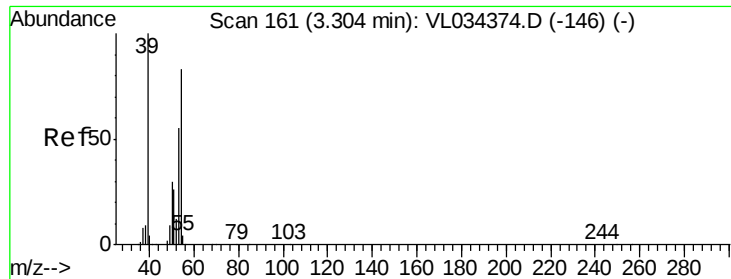
Tgt Ion: 43 Resp: 128914

Ion Ratio Lower Upper

43 100

58 26.4 20.2 30.4

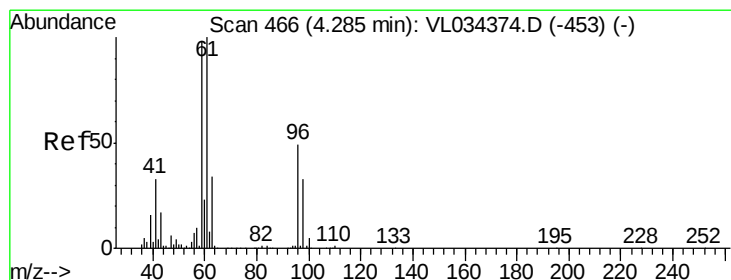
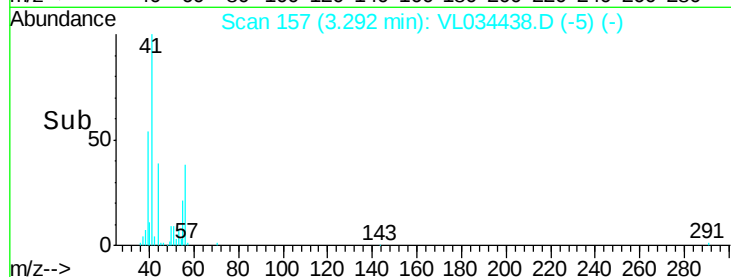
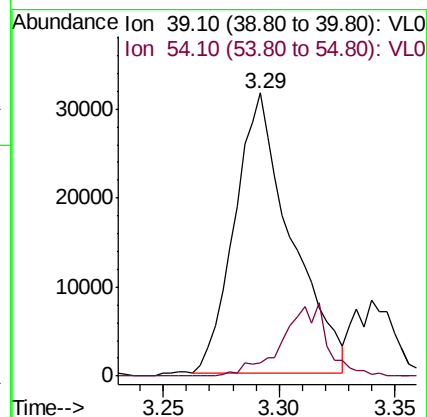
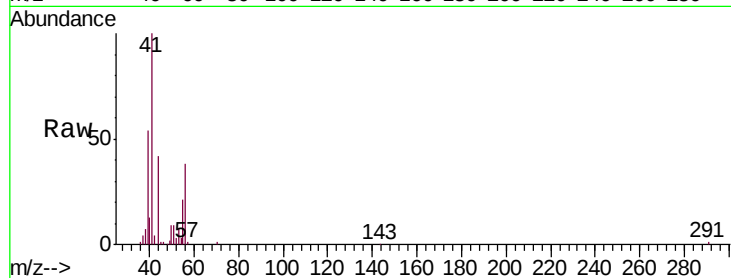




#16
 1,3-Butadiene
 Concen: 1.121 ppbv
 RT: 3.29 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VL034438.D
 Acq: 2 Dec 2019 22:38

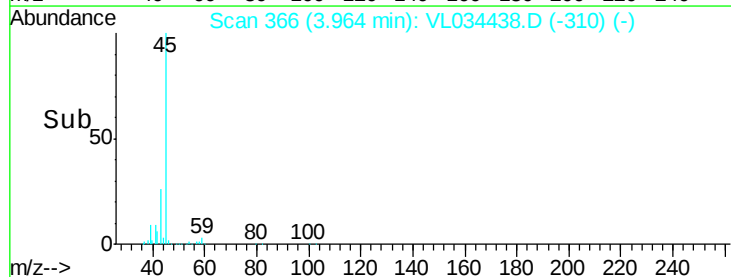
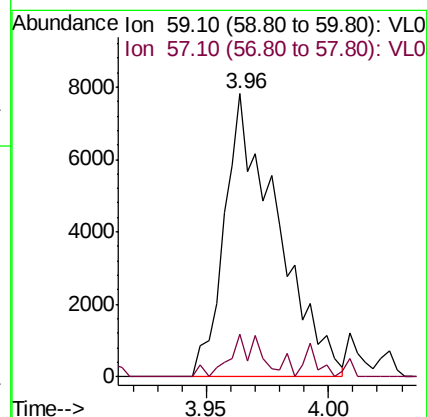
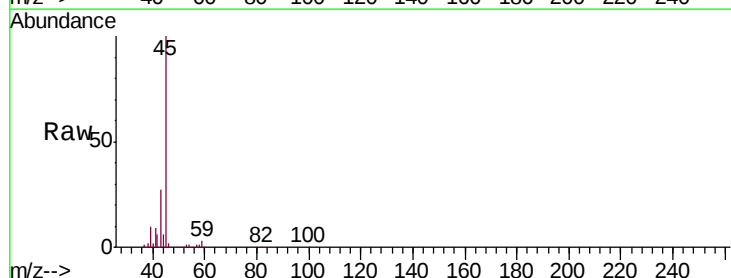
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL2

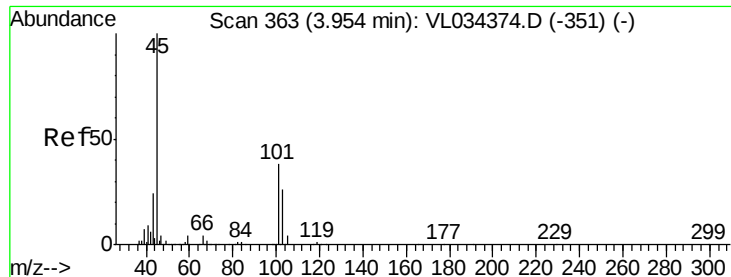
Tgt Ion: 39 Resp: 52914
 Ion Ratio Lower Upper
 39 100
 54 0.0 64.7 97.1#



#17
 tert-Butyl alcohol
 Concen: 0.129 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. -0.32 min
 Lab File: VL034438.D
 Acq: 2 Dec 2019 22:38

Tgt Ion: 59 Resp: 11732
 Ion Ratio Lower Upper
 59 100
 57 9.6 8.8 13.2





#19

Isopropyl Alcohol

Concen: 5.461 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Instrument :

MSVOA_L

ClientSampleId :

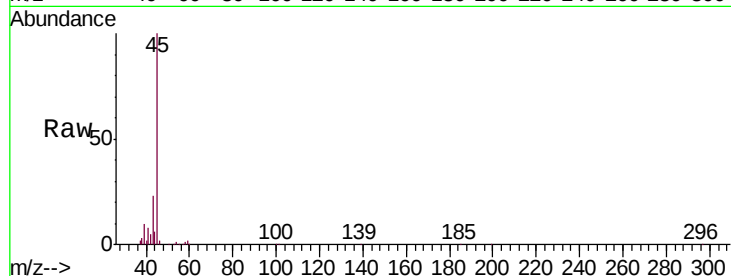
SV-1DL2

Tgt Ion: 45 Resp: 379342

Ion Ratio Lower Upper

45 100

58 2.1 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

250000

200000

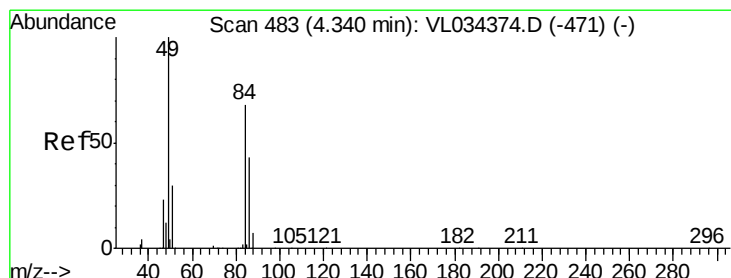
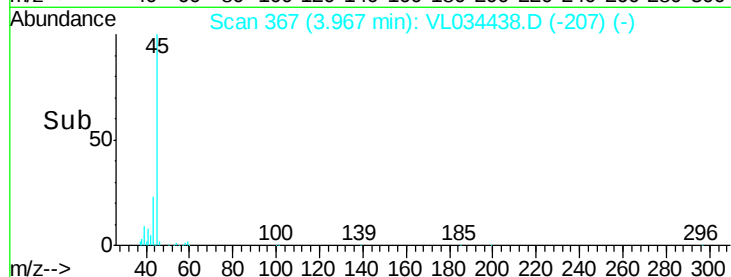
150000

100000

50000

0

Time--> 3.90 3.95 4.00



#20

Methylene Chloride

Concen: 0.118 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Tgt Ion: 84 Resp: 4535

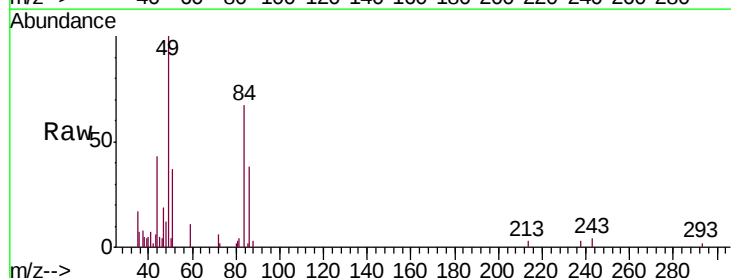
Ion Ratio Lower Upper

84 100

49 154.0 116.8 175.2

51 50.3 35.6 53.4

86 58.0 50.7 76.1



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

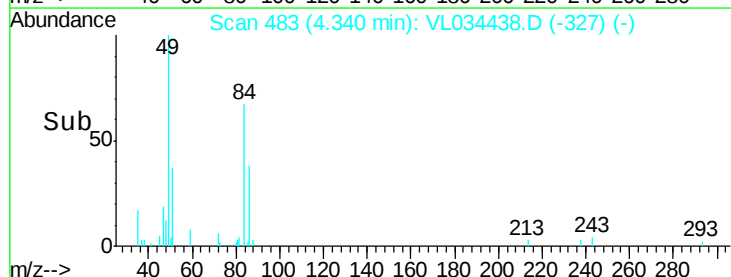
15000

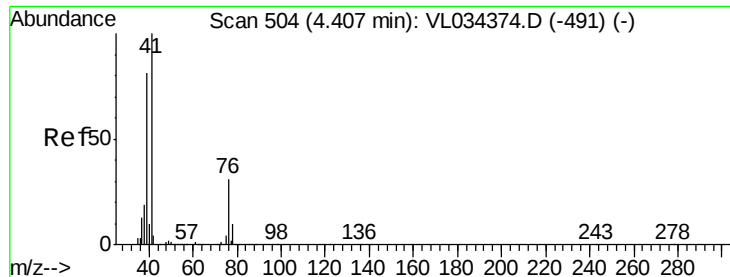
10000

5000

0

Time--> 4.31 4.32 4.33 4.34 4.35





#21

Allyl Chloride

Concen: 0.031 ppbv

RT: 4.40 min Scan# 502

Delta R.T. -0.01 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL2

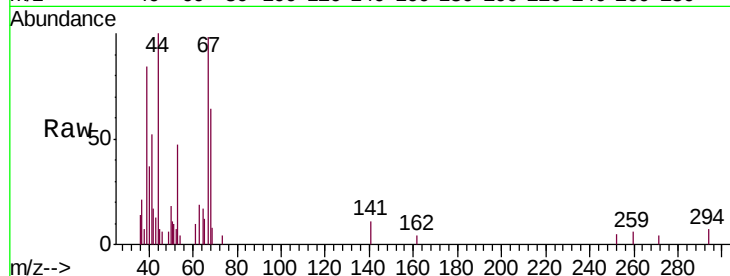
Tgt Ion: 41 Resp: 2022

Ion Ratio Lower Upper

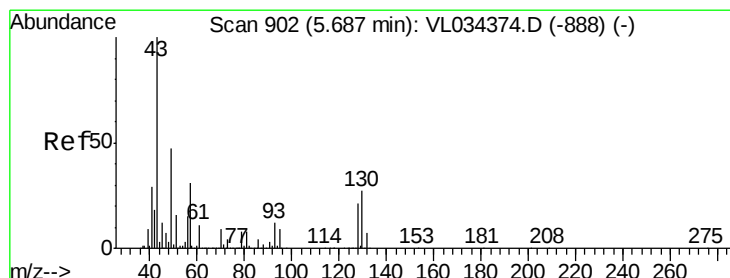
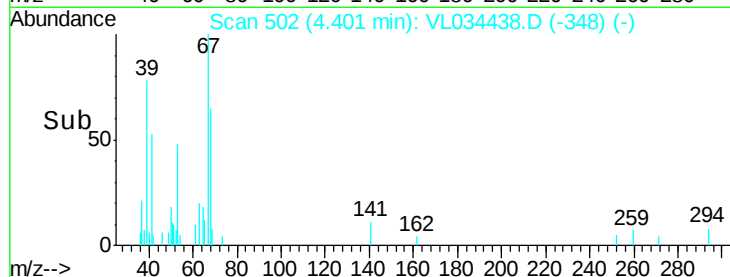
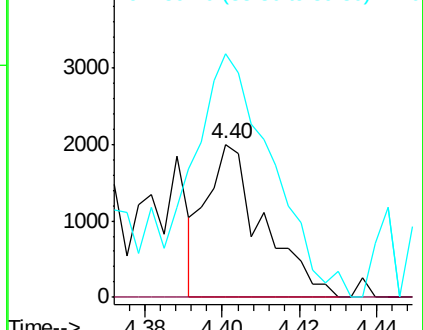
41 100

76 0.0 24.2 36.2#

39 236.4 66.9 100.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#25

Ethyl Acetate

Concen: 0.036 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.02 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Tgt Ion: 43 Resp: 6880

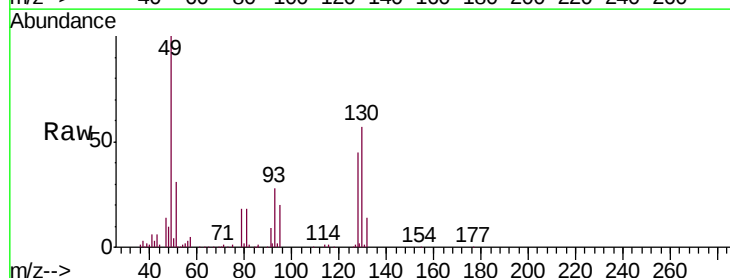
Ion Ratio Lower Upper

43 100

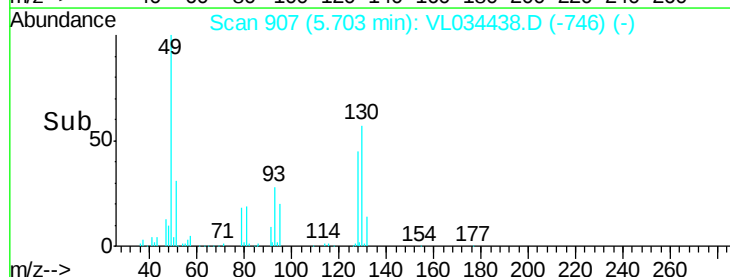
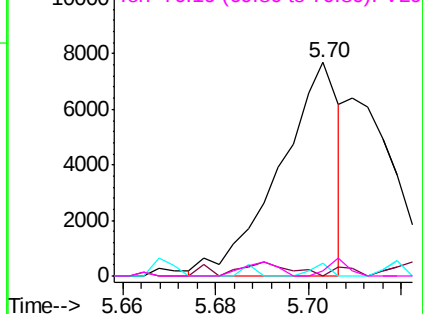
45 12.4 8.2 12.4#

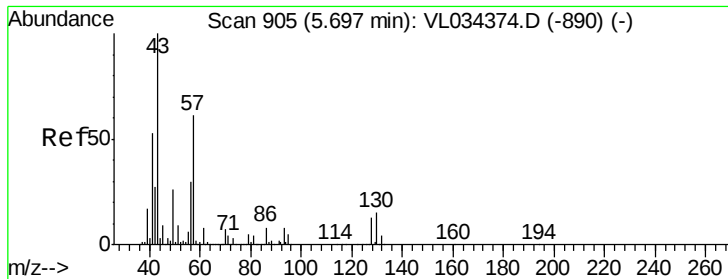
61 0.0 7.5 11.3#

70 0.0 5.7 8.5#



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: 0.074 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL2

Tgt Ion: 57 Resp: 6171

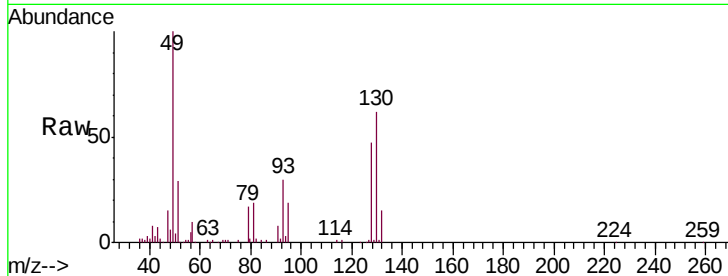
Ion Ratio Lower Upper

57 100

41 243.9 75.0 112.4#

43 198.5 186.6 279.8

56 0.0 41.5 62.3#

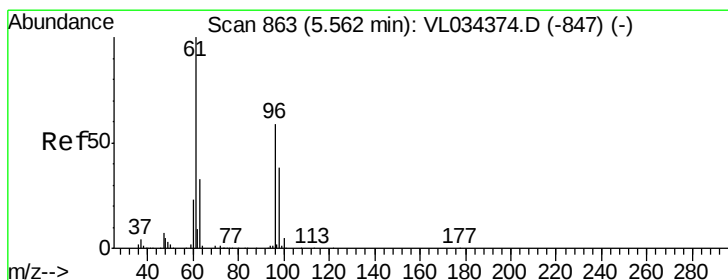
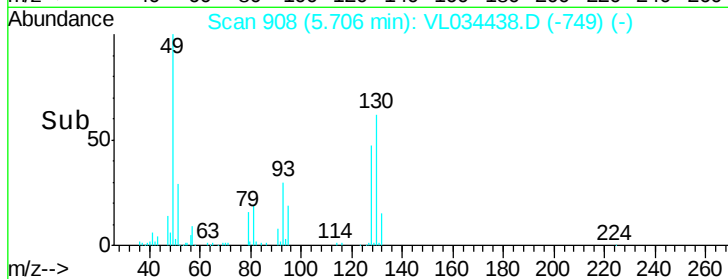
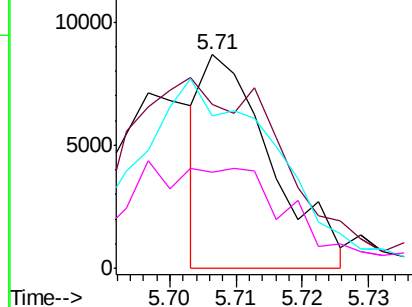


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#31

cis-1,2-Dichloroethene

Concen: 0.079 ppbv

RT: 5.56 min Scan# 864

Delta R.T. 0.00 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

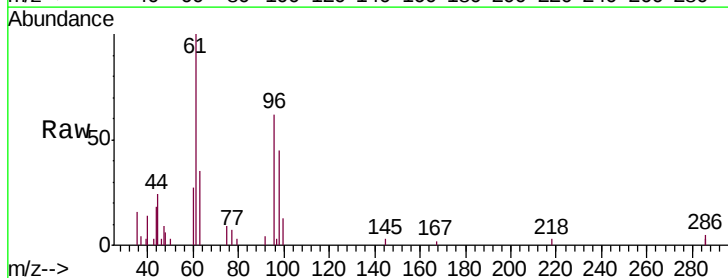
Tgt Ion: 61 Resp: 6761

Ion Ratio Lower Upper

61 100

96 48.2 47.4 71.2

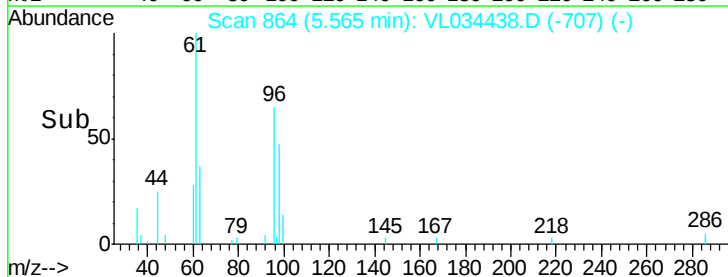
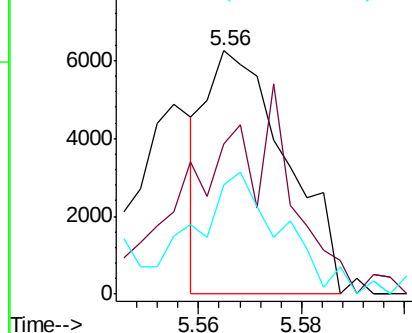
98 33.6 30.6 45.8

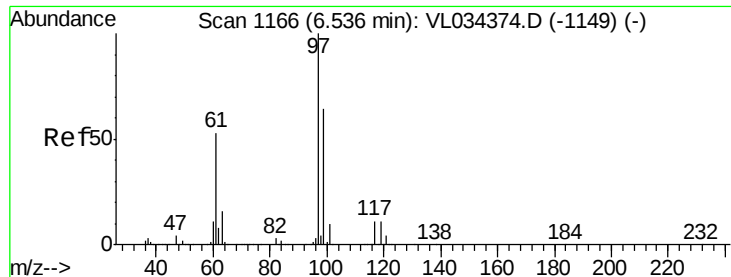


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0

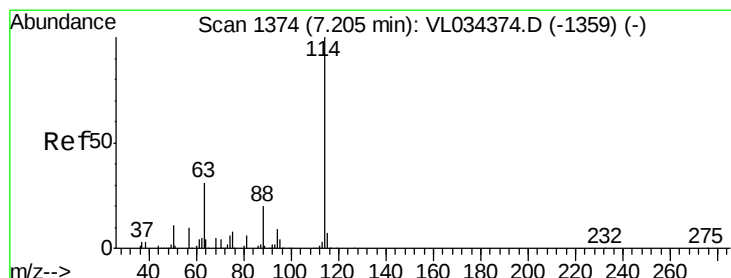
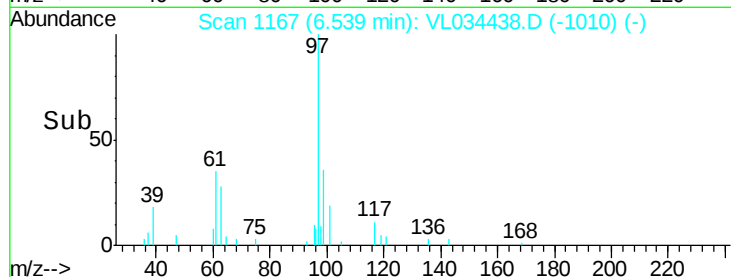
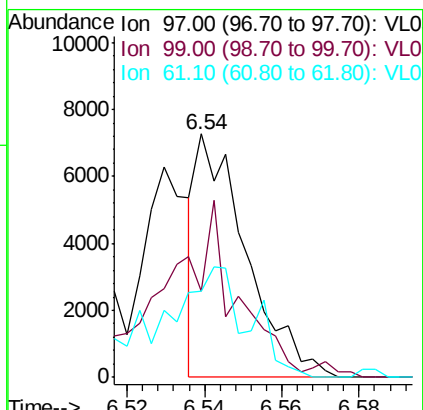
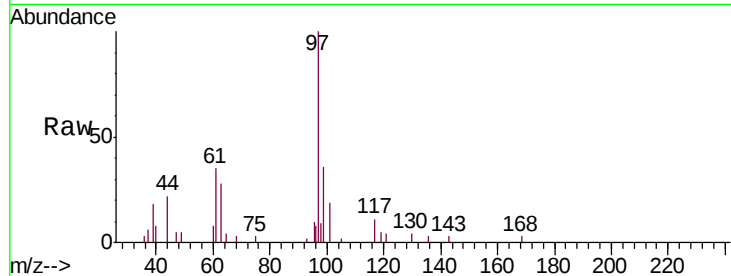




#32
 1,1,1-Trichloroethane
 Concen: 0.051 ppbv
 RT: 6.54 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VL034438.D
 Acq: 2 Dec 2019 22:38

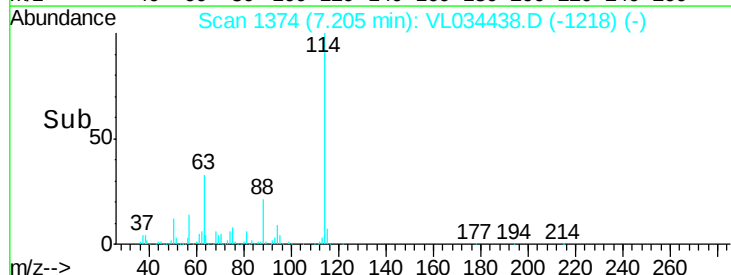
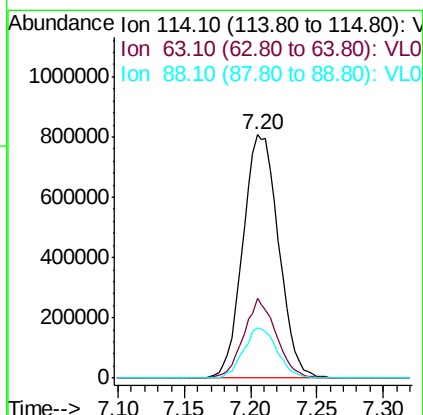
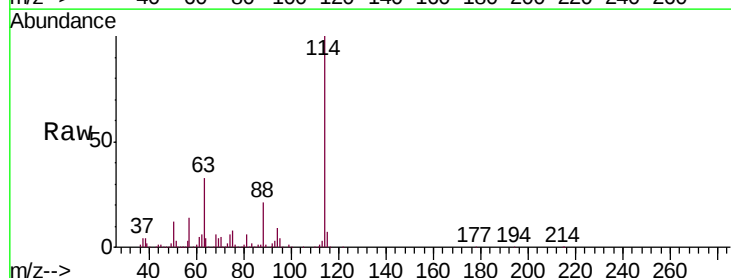
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1DL2

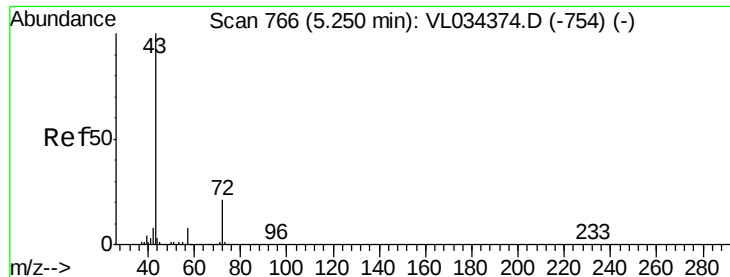
Tgt Ion: 97 Resp: 6470
 Ion Ratio Lower Upper
 97 100
 99 110.7 52.3 78.5#
 61 85.9 43.7 65.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VL034438.D
 Acq: 2 Dec 2019 22:38

Tgt Ion: 114 Resp: 1513742
 Ion Ratio Lower Upper
 114 100
 63 29.7 24.2 36.4
 88 19.5 15.9 23.9

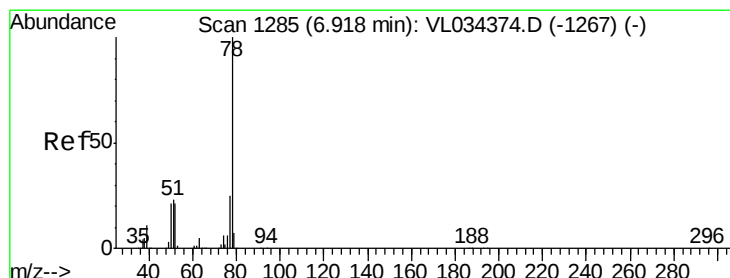
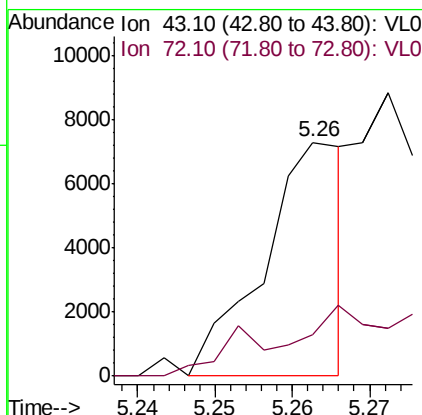
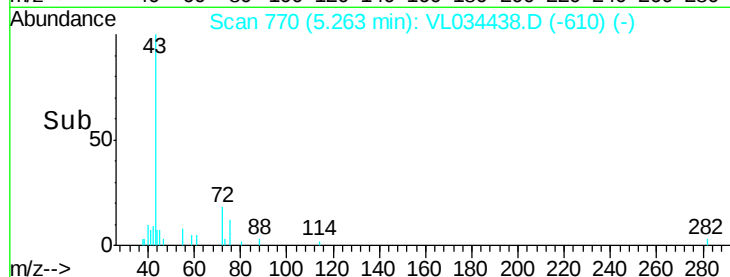
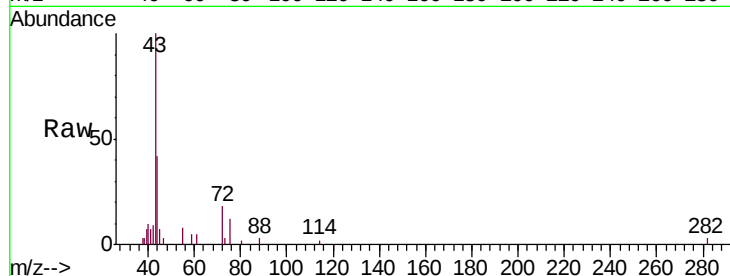




#34
2-Butanone
Concen: 0.043 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL034438.D
Acq: 2 Dec 2019 22:38

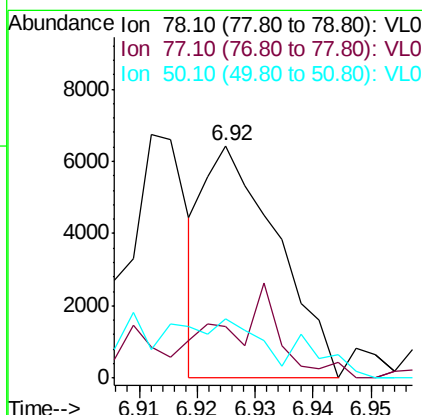
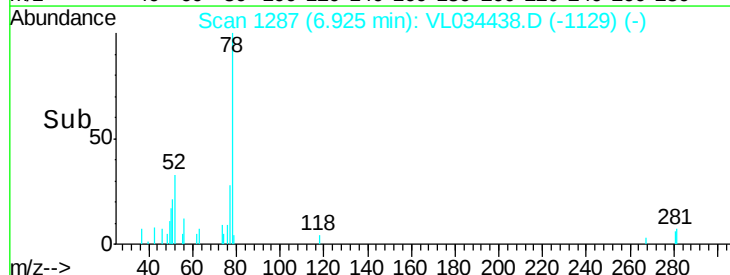
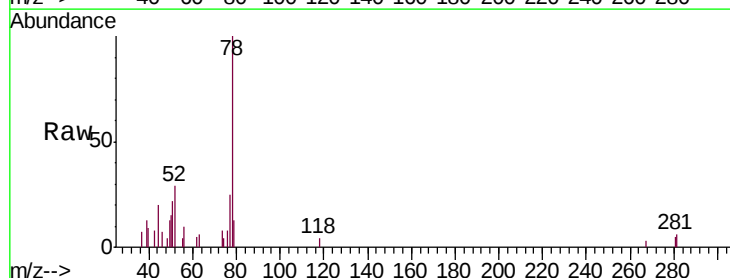
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL2

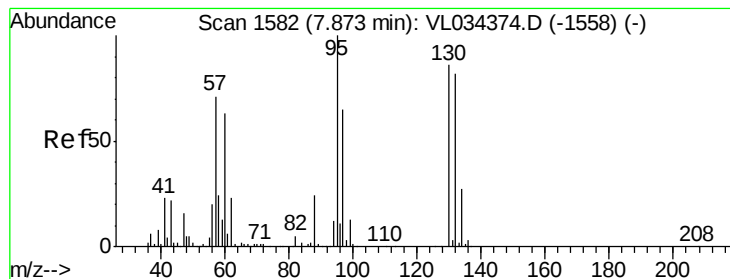
Tgt Ion: 43 Resp: 5328
Ion Ratio Lower Upper
43 100
72 65.8 17.0 25.6#



#36
Benzene
Concen: 0.037 ppbv
RT: 6.92 min Scan# 1287
Delta R.T. 0.01 min
Lab File: VL034438.D
Acq: 2 Dec 2019 22:38

Tgt Ion: 78 Resp: 5668
Ion Ratio Lower Upper
78 100
77 15.0 20.2 30.4#
50 15.0 17.1 25.7#





#38

Trichloroethene

Concen: 4.143 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

Instrument :

MSVOA_L

ClientSampleId :

SV-1DL2

Tgt Ion:130 Resp: 257284

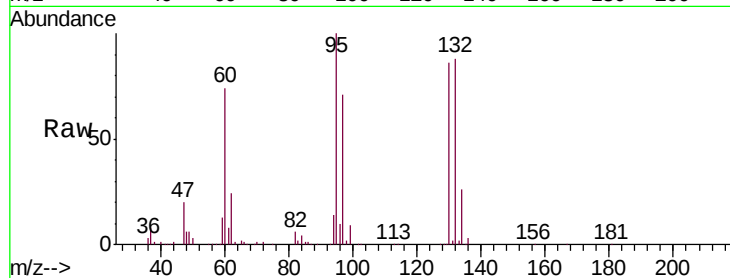
Ion Ratio Lower Upper

130 100

95 116.2 93.4 140.0

132 102.2 76.4 114.6

97 82.5 61.1 91.7

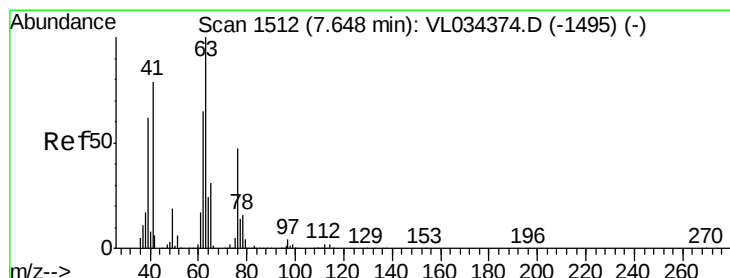
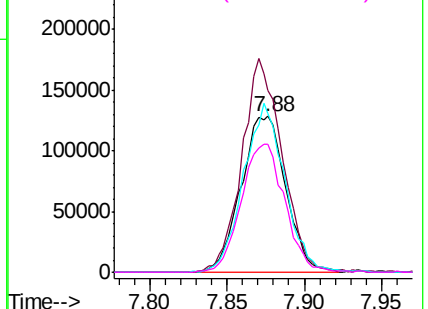
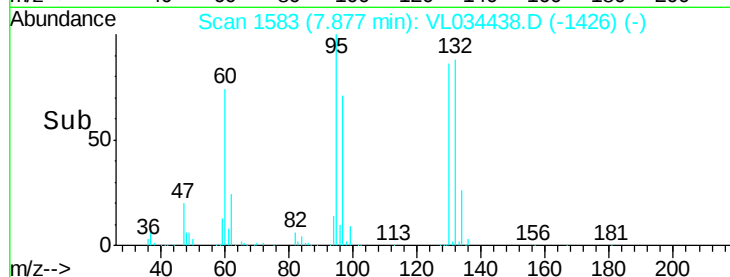


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.670 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.44 min

Lab File: VL034438.D

Acq: 2 Dec 2019 22:38

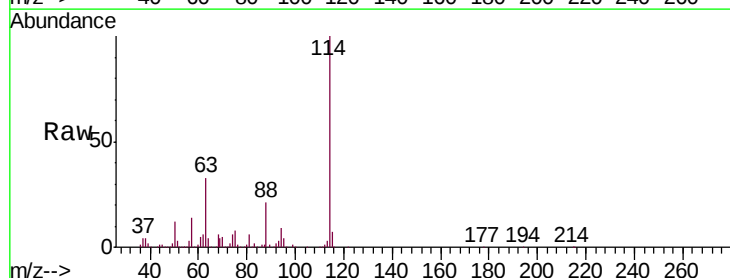
Tgt Ion: 63 Resp: 447111

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

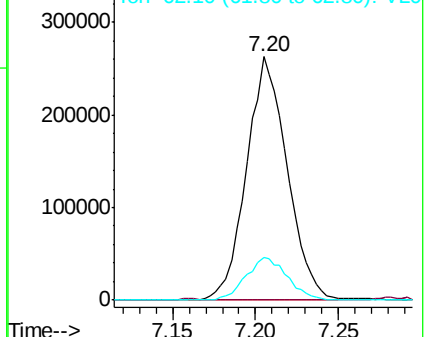
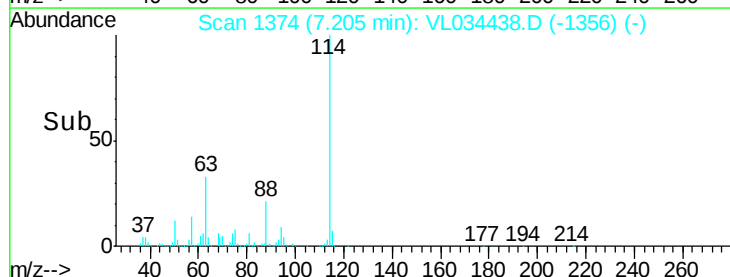
62 17.7 52.3 78.5#

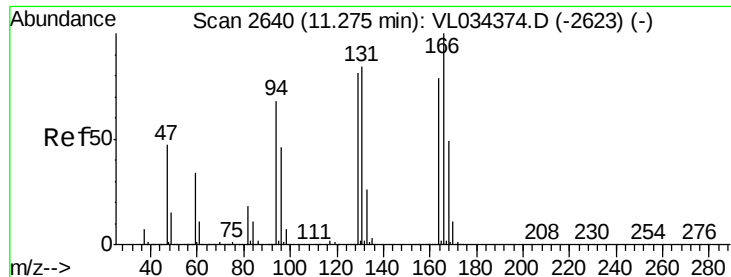


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

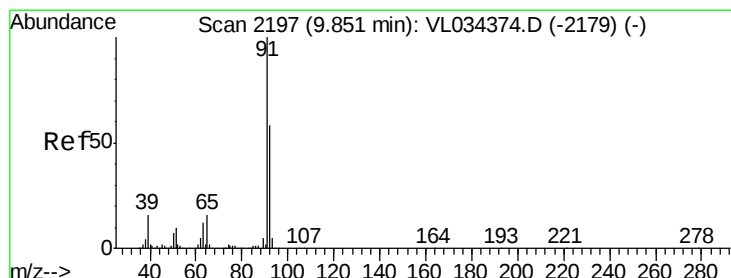
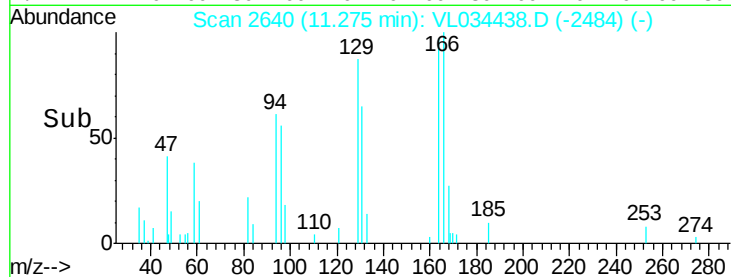
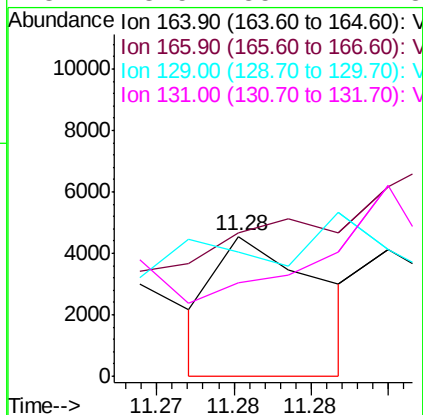
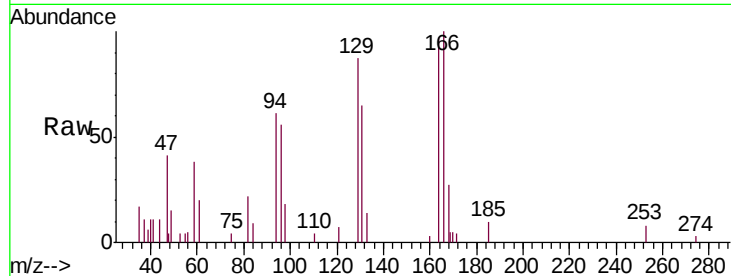




#52
Tetrachloroethene
Concen: 0.033 ppbv
RT: 11.28 min Scan# 2640
Delta R.T. 0.00 min
Lab File: VL034438.D
Acq: 2 Dec 2019 22:38

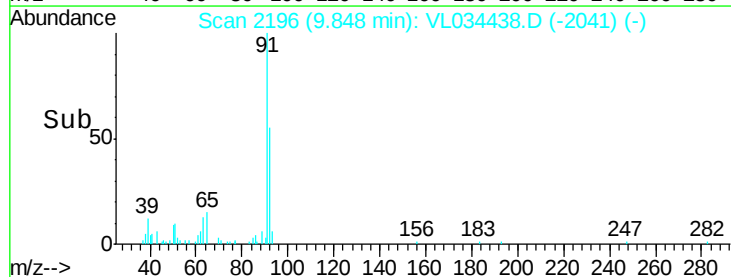
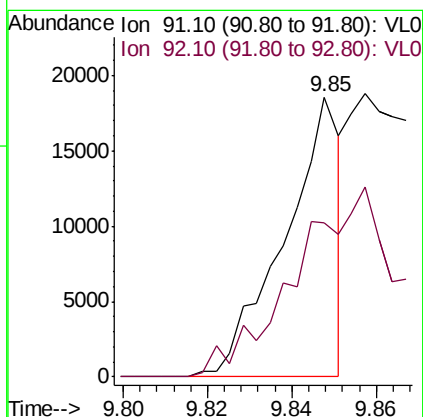
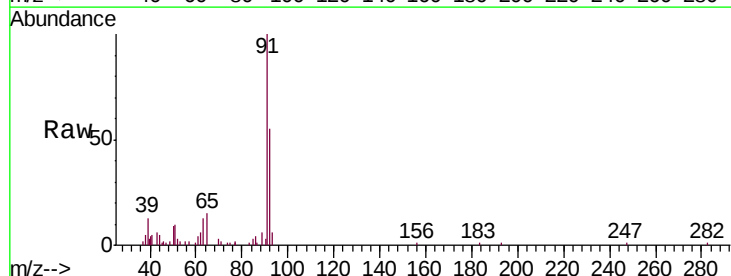
Instrument :
MSVOA_L
ClientSampleId :
SV-1DL2

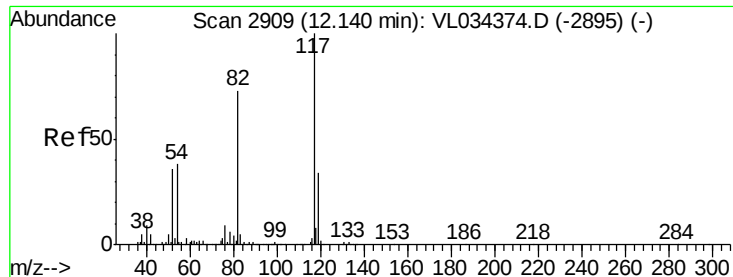
Tgt Ion:164 Resp: 2131
Ion Ratio Lower Upper
164 100
166 41.9 101.7 152.5#
129 0.0 82.6 123.8#
131 13.5 85.2 127.8#



#53
Toluene
Concen: 0.099 ppbv
RT: 9.85 min Scan# 2196
Delta R.T. -0.00 min
Lab File: VL034438.D
Acq: 2 Dec 2019 22:38

Tgt Ion: 91 Resp: 17002
Ion Ratio Lower Upper
91 100
92 0.0 47.9 71.9#

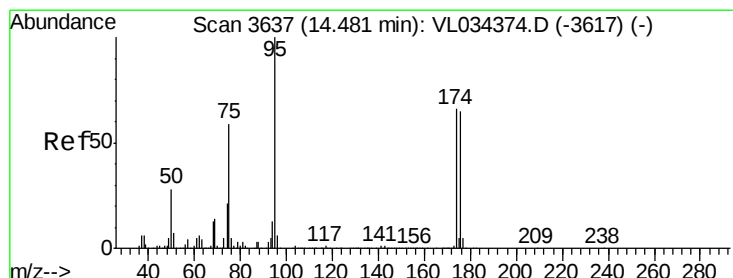
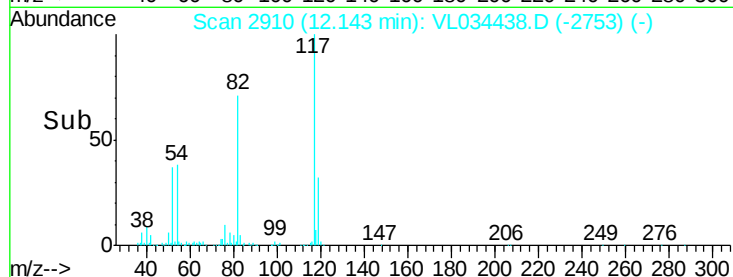
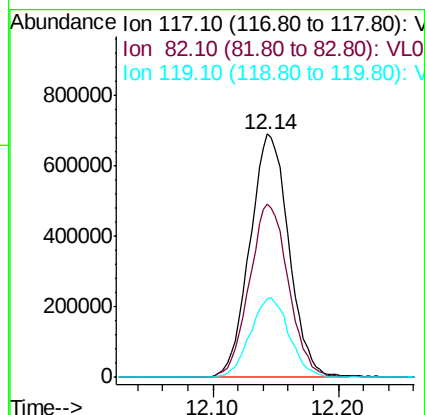
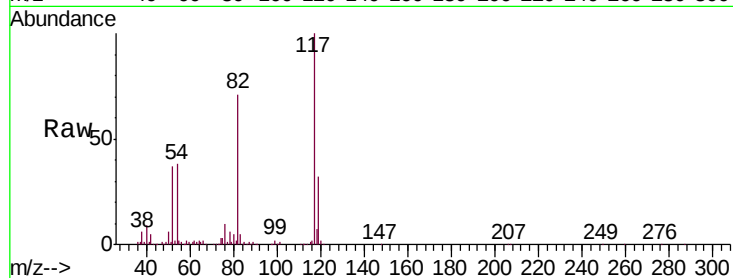




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL034438.D
Acq: 2 Dec 2019 22:38

Instrument :
MSVOA_L
ClientSampleId :
SV-1DL2

Tgt Ion: 117 Resp: 1488395
Ion Ratio Lower Upper
117 100
82 71.8 57.5 86.3
119 32.8 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.140 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. 0.00 min
Lab File: VL034438.D
Acq: 2 Dec 2019 22:38

Tgt Ion: 95 Resp: 1269632
Ion Ratio Lower Upper
95 100
174 64.0 52.2 78.2
175 4.7 3.8 5.8

