

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034435.D
 Acq On : 2 Dec 2019 20:45
 Operator : SY/AP
 Sample : K6068-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4DL

Quant Time: Dec 03 02:52:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

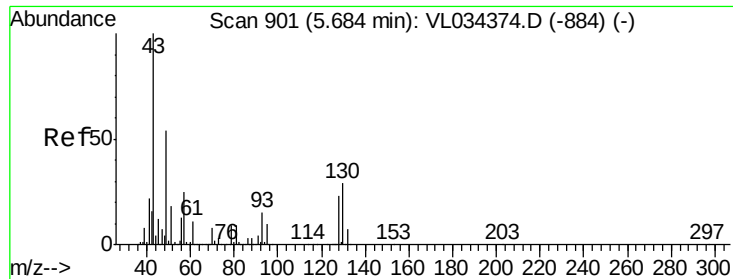
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	864272	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1750717	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1671280	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1411867	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds					Qvalue
3) Chlorodifluoromethane	2.96	51	8270	0.077 ppbv	94
4) Chloromethane	3.12	50	3779	0.059 ppbv #	74
9) Propene	2.99	41	31480	0.658 ppbv	85
13) Ethanol	3.60	45	26108	1.958 ppbv	98
15) Acetone	3.84	43	911134	7.362 ppbv	99
16) 1,3-Butadiene	3.31	39	2275	0.042 ppbv #	10
17) tert-Butyl alcohol	4.30	59	24091	0.232 ppbv #	80
19) Isopropyl Alcohol	3.98	45	63181	0.796 ppbv #	96
20) Methylene Chloride	4.35	84	10936	0.249 ppbv	96
26) Hexane	5.71	57	10651	0.112 ppbv #	39
27) Carbon Disulfide	4.55	76	9704	0.094 ppbv #	27
29) Chloroform	5.77	83	24766	0.161 ppbv	91
31) cis-1,2-Dichloroethene	5.56	61	147118	1.500 ppbv	94
32) 1,1,1-Trichloroethane	6.54	97	62411	0.433 ppbv	99
34) 2-Butanone	5.28	43	42616	0.296 ppbv	98
36) Benzene	6.92	78	33047	0.189 ppbv #	91
38) Trichloroethene	7.88	130	5206336	72.492 ppbv	95
39) 1,2-Dichloropropane	7.87	63	31281	0.464 ppbv #	1
42) Bromodichloromethane	7.88	83	51747	0.318 ppbv #	99
52) Tetrachloroethene	11.28	164	2710519	35.796 ppbv	96
53) Toluene	9.86	91	46542	0.234 ppbv	98

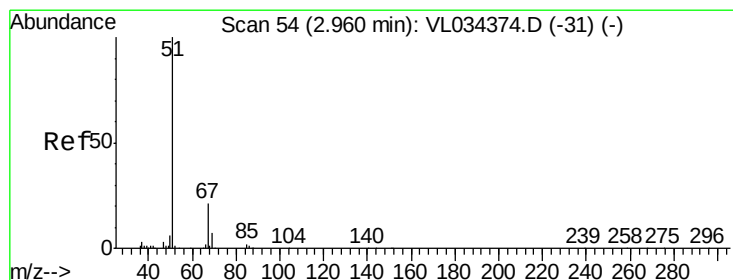
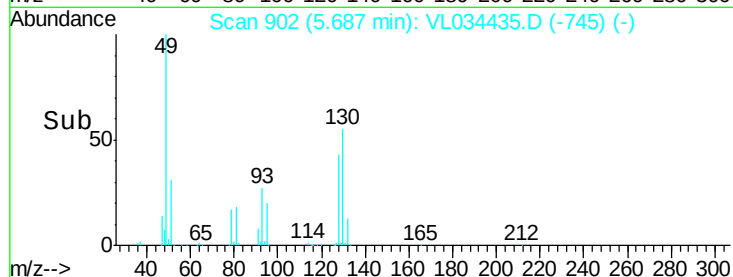
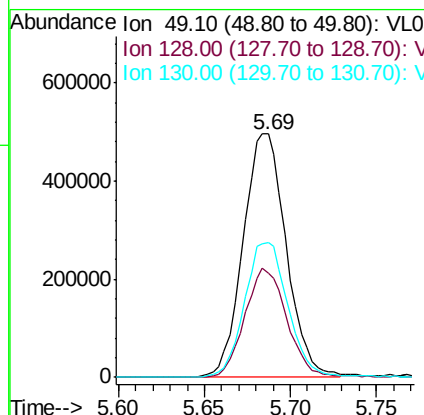
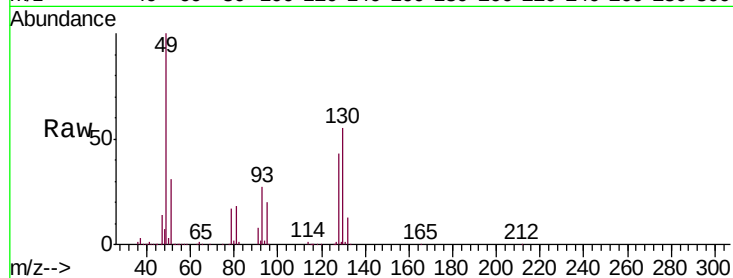
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.69 min Scan# 902
 Delta R.T. 0.00 min
 Lab File: VL034435.D
 Acq: 2 Dec 2019 20:45

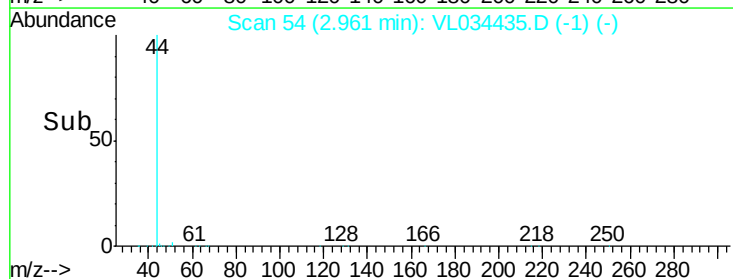
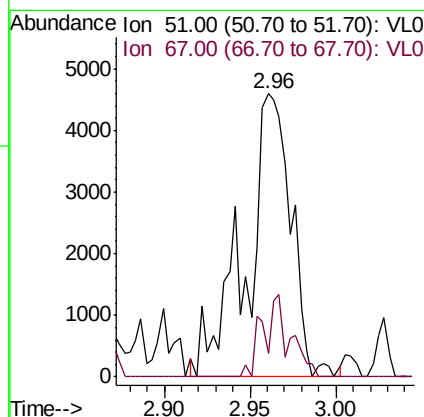
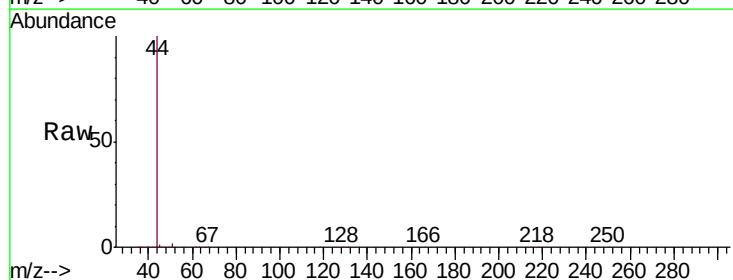
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4DL

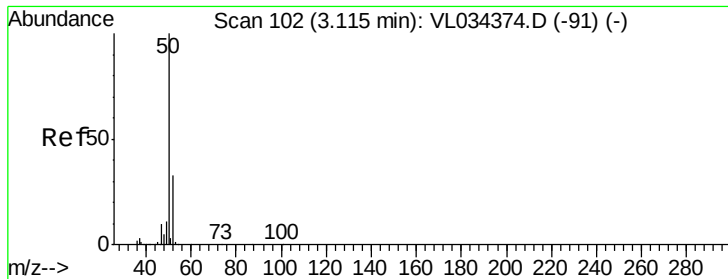
Tgt Ion: 49 Resp: 864272
 Ion Ratio Lower Upper
 49 100
 128 44.2 21.8 65.3
 130 56.6 28.0 84.0



#3
 Chlorodifluoromethane
 Concen: 0.077 ppbv
 RT: 2.96 min Scan# 54
 Delta R.T. 0.00 min
 Lab File: VL034435.D
 Acq: 2 Dec 2019 20:45

Tgt Ion: 51 Resp: 8270
 Ion Ratio Lower Upper
 51 100
 67 17.5 16.2 24.2

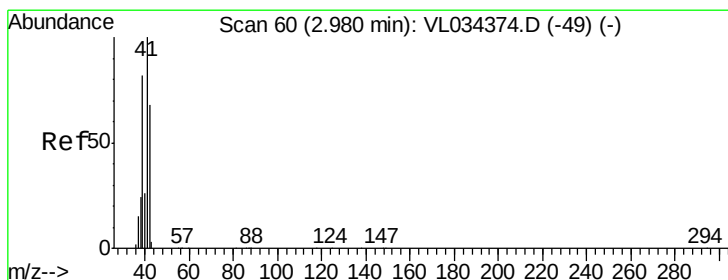
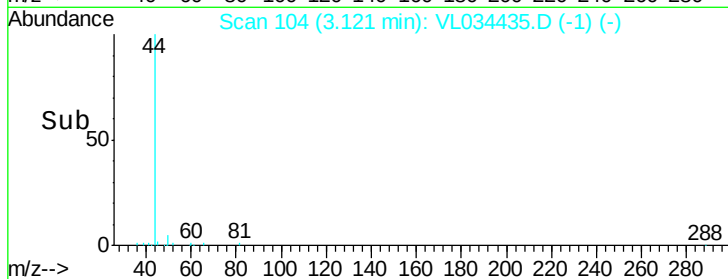
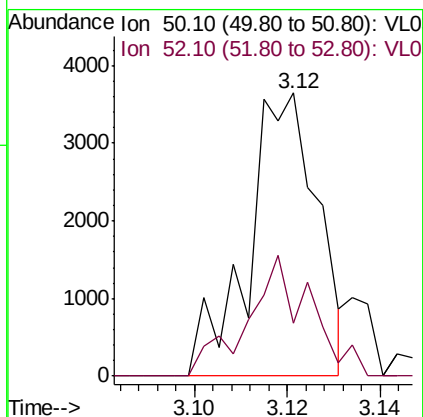
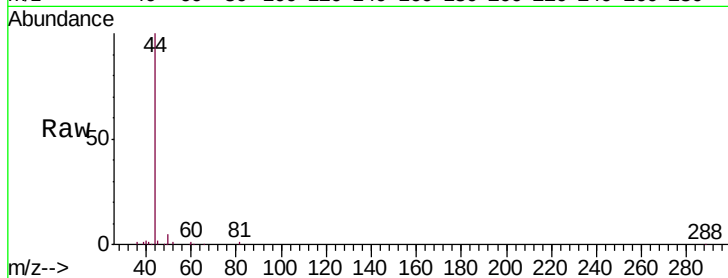




#4
Chloromethane
Concen: 0.059 ppbv
RT: 3.12 min Scan# 104
Delta R.T. 0.01 min
Lab File: VL034435.D
Acq: 2 Dec 2019 20:45

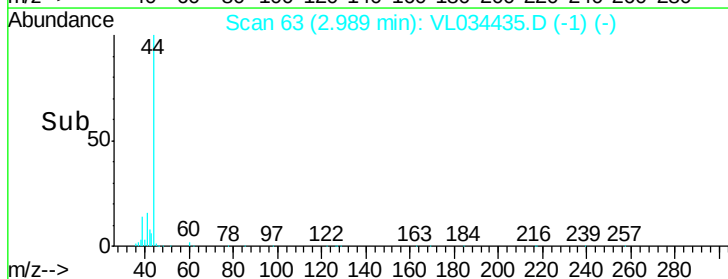
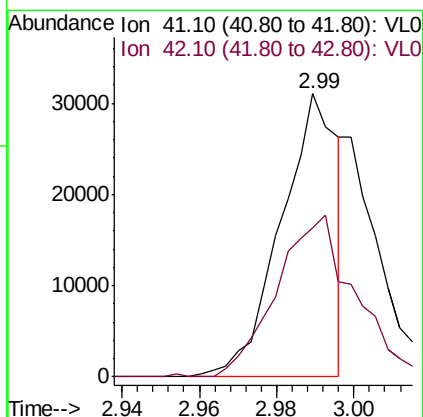
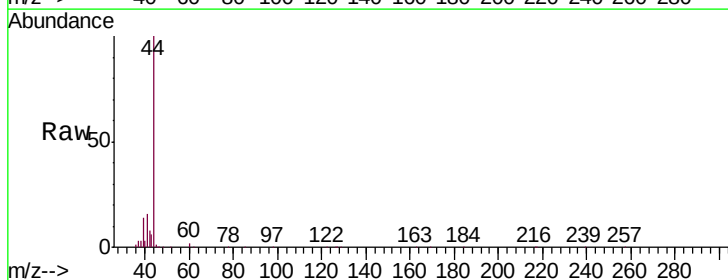
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

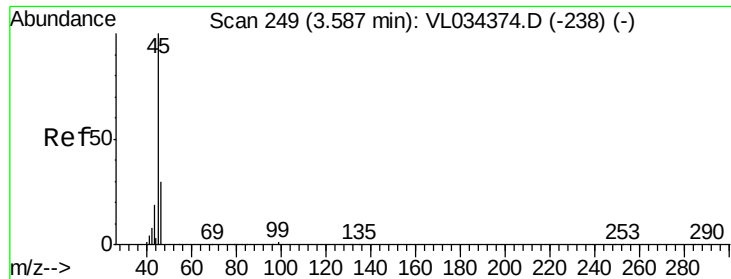
Tgt Ion: 50 Resp: 3779
Ion Ratio Lower Upper
50 100
52 18.6 26.8 40.2#



#9
Propene
Concen: 0.658 ppbv
RT: 2.99 min Scan# 63
Delta R.T. 0.01 min
Lab File: VL034435.D
Acq: 2 Dec 2019 20:45

Tgt Ion: 41 Resp: 31480
Ion Ratio Lower Upper
41 100
42 80.5 54.6 82.0

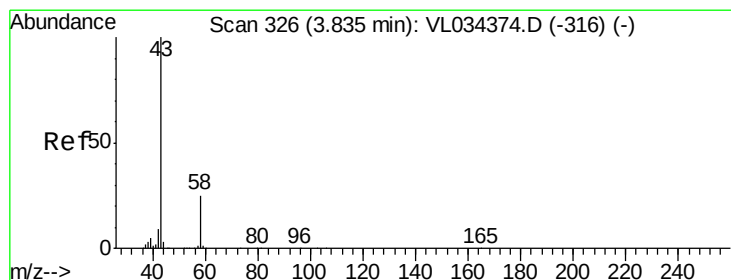
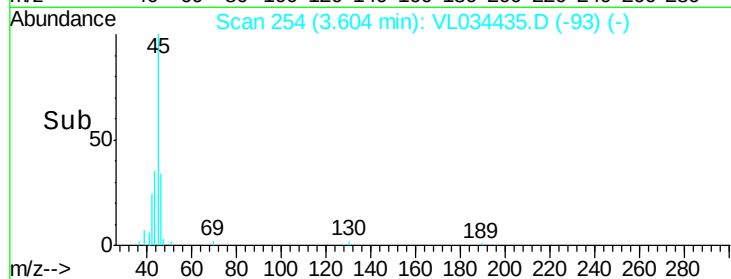
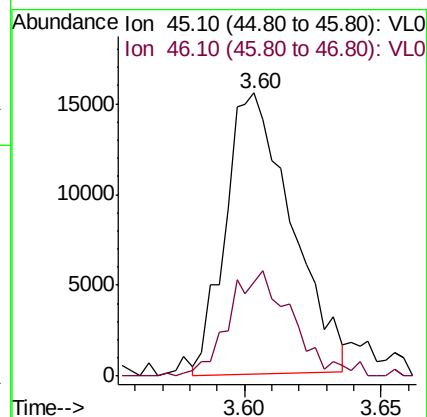
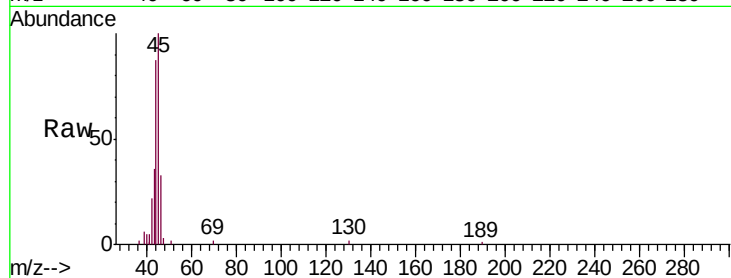




#13
Ethanol
Concen: 1.958 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.02 min
Lab File: VL034435.D
Acq: 2 Dec 2019 20:45

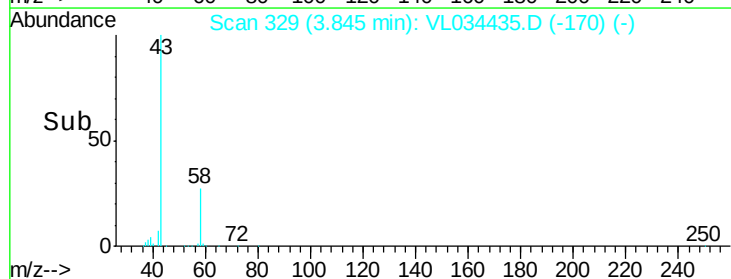
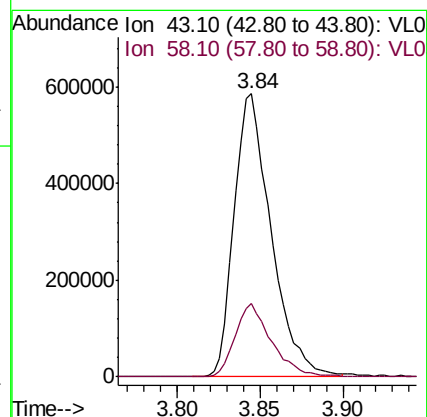
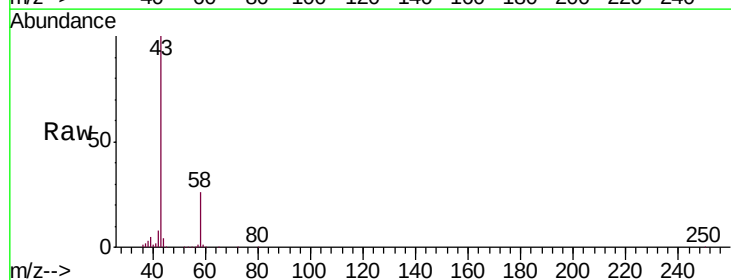
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

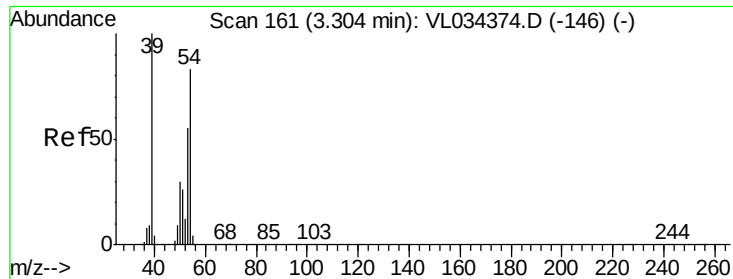
Tgt Ion: 45 Resp: 26108
Ion Ratio Lower Upper
45 100
46 35.9 13.8 55.4



#15
Acetone
Concen: 7.362 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL034435.D
Acq: 2 Dec 2019 20:45

Tgt Ion: 43 Resp: 911134
Ion Ratio Lower Upper
43 100
58 25.6 20.2 30.4

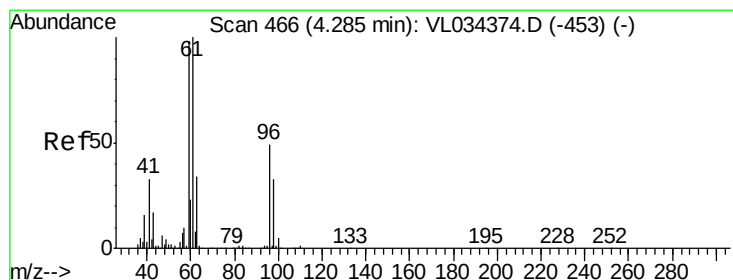
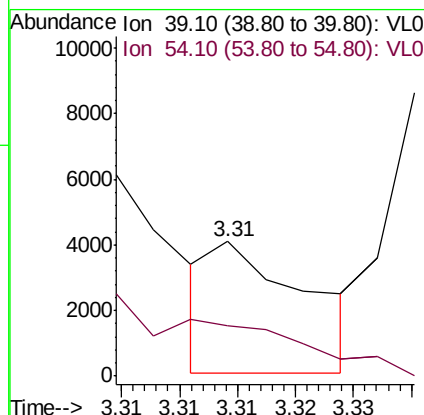
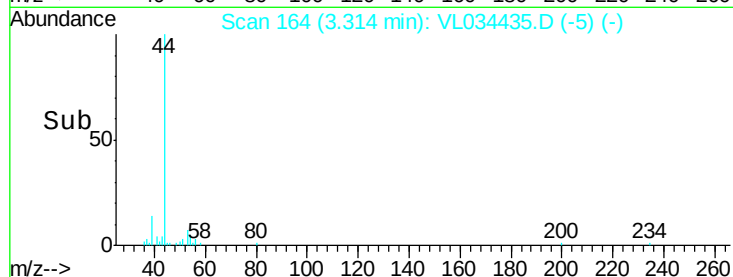
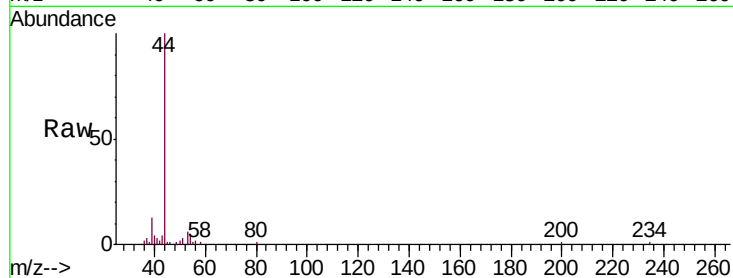




#16
1,3-Butadiene
Concen: 0.042 ppbv
RT: 3.31 min Scan# 164
Delta R.T. 0.01 min
Lab File: VL034435.D
Acq: 2 Dec 2019 20:45

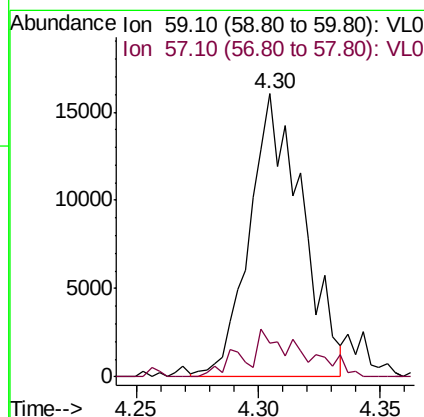
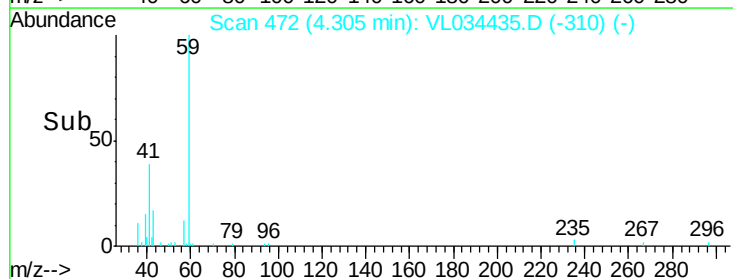
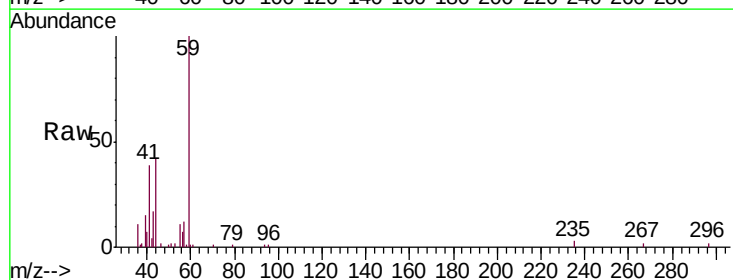
Instrument :
MSVOA_L
ClientSampled :
SV-4DL

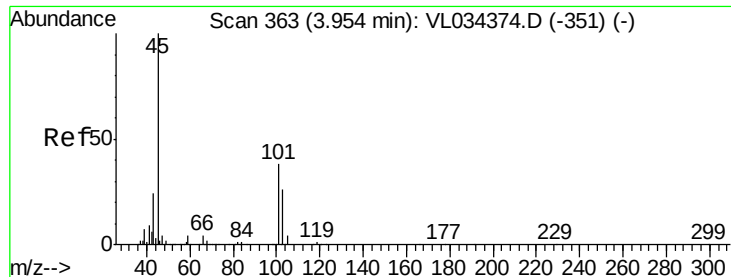
Tgt Ion: 39 Resp: 2275
Ion Ratio Lower Upper
39 100
54 160.4 64.7 97.1#



#17
tert-Butyl alcohol
Concen: 0.232 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.02 min
Lab File: VL034435.D
Acq: 2 Dec 2019 20:45

Tgt Ion: 59 Resp: 24091
Ion Ratio Lower Upper
59 100
57 18.7 8.8 13.2#





#19

Isopropyl Alcohol

Concen: 0.796 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Instrument :

MSVOA_L

ClientSampleId :

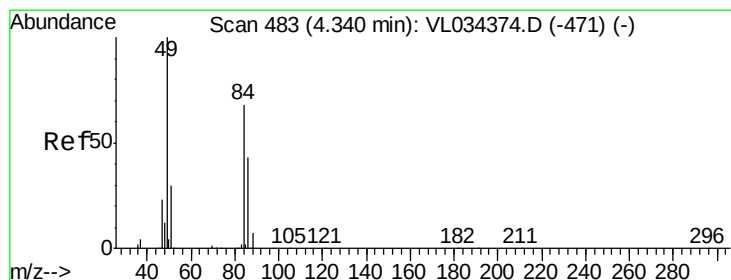
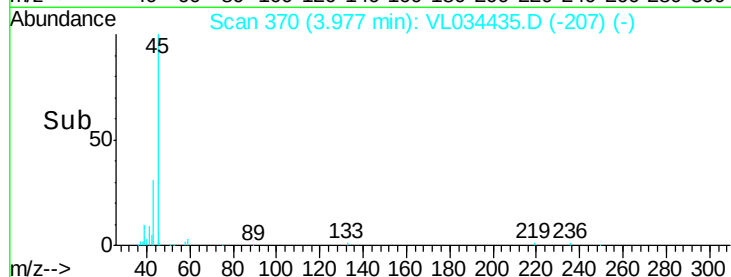
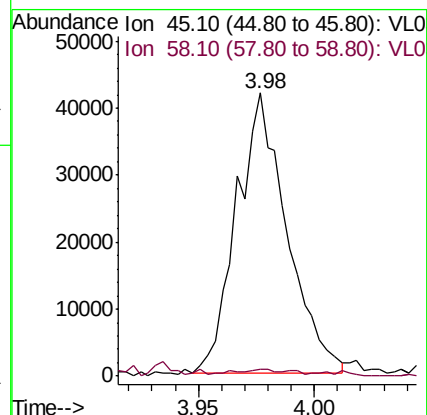
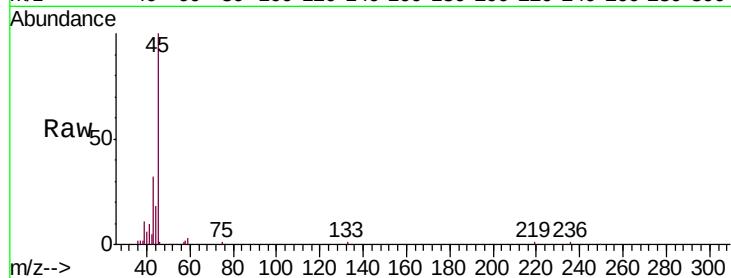
SV-4DL

Tgt Ion: 45 Resp: 63181

Ion Ratio Lower Upper

45 100

58 0.0 1.3 1.9#



#20

Methylene Chloride

Concen: 0.249 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Tgt Ion: 84 Resp: 10936

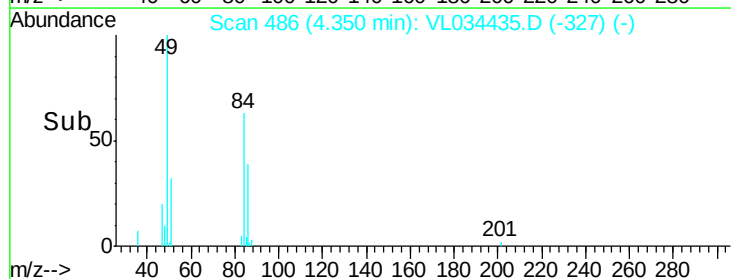
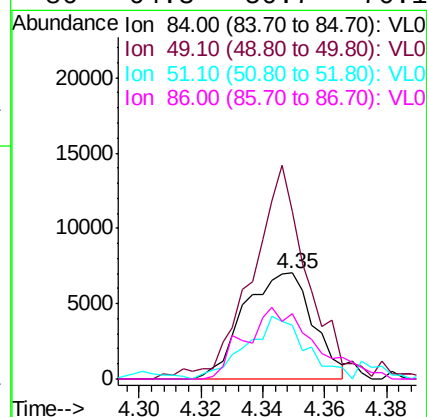
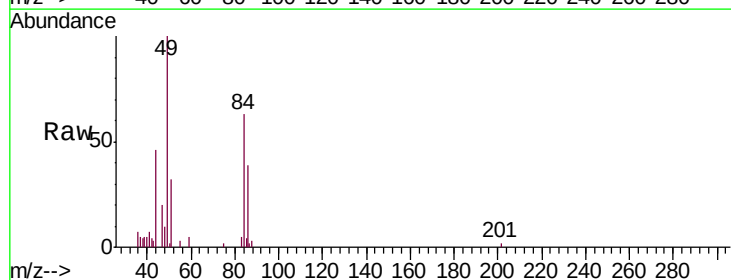
Ion Ratio Lower Upper

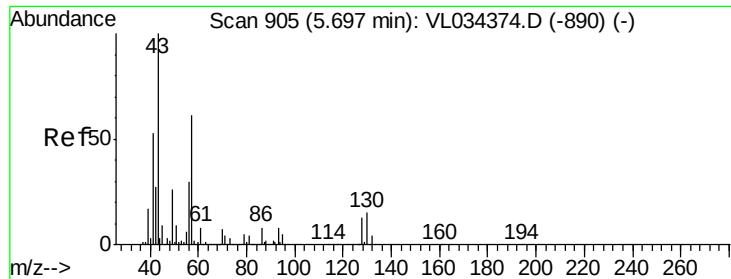
84 100

49 150.2 116.8 175.2

51 50.3 35.6 53.4

86 64.3 50.7 76.1





#26

Hexane

Concen: 0.112 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Instrument :

MSVOA_L

ClientSampleId :

SV-4DL

Tgt Ion: 57 Resp: 10651

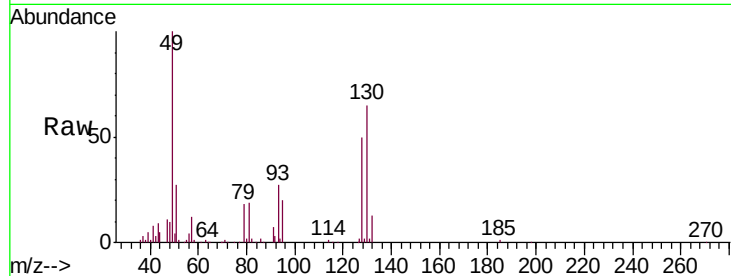
Ion Ratio Lower Upper

57 100

41 139.5 75.0 112.4#

43 127.9 186.6 279.8#

56 0.0 41.5 62.3#

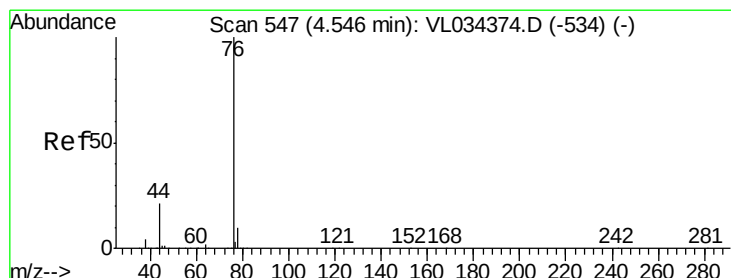
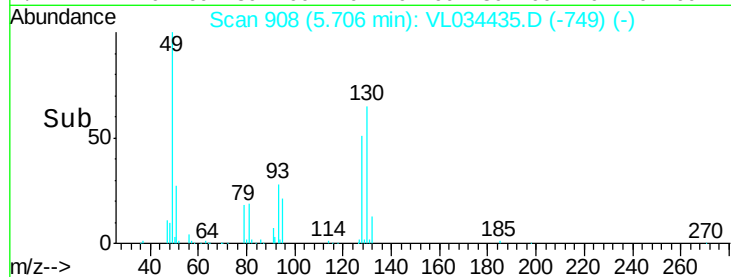
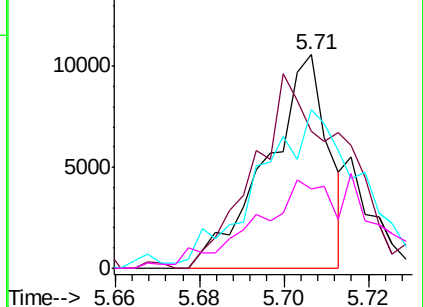


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#27

Carbon Disulfide

Concen: 0.094 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

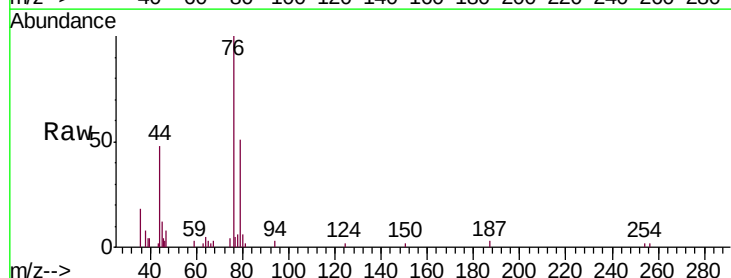
Tgt Ion: 76 Resp: 9704

Ion Ratio Lower Upper

76 100

44 63.3 17.0 25.4#

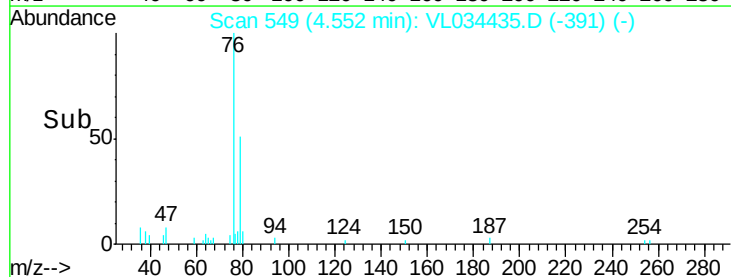
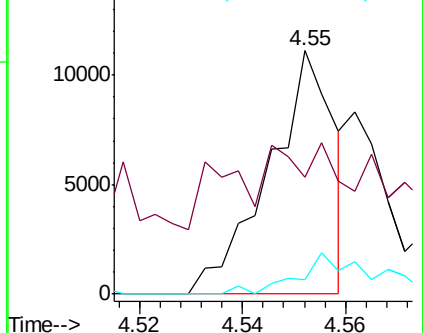
78 22.5 7.6 11.4#

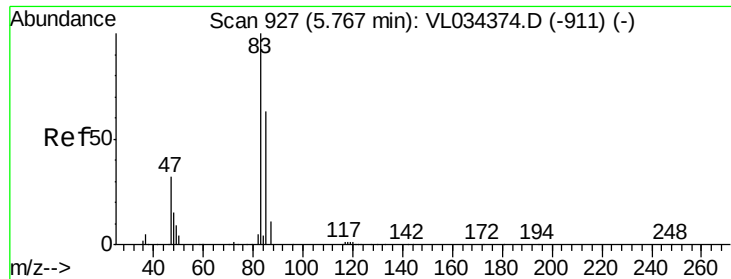


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.161 ppbv

RT: 5.77 min Scan# 928

Delta R.T. 0.00 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

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ClientSampleId :

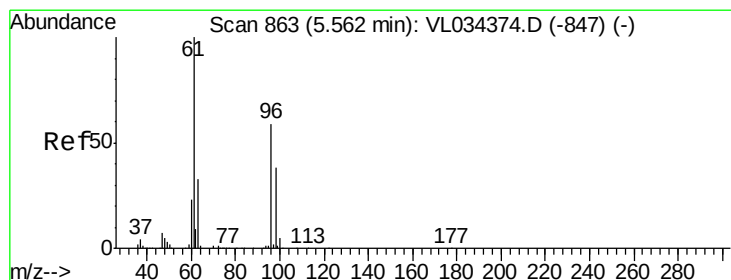
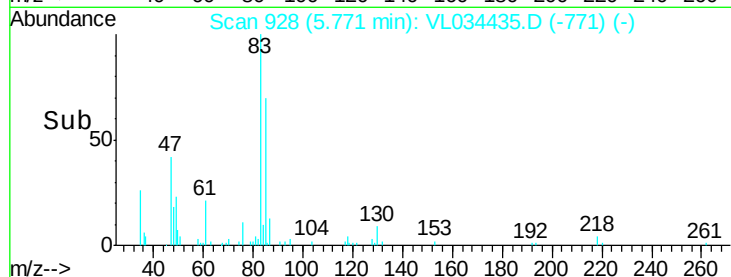
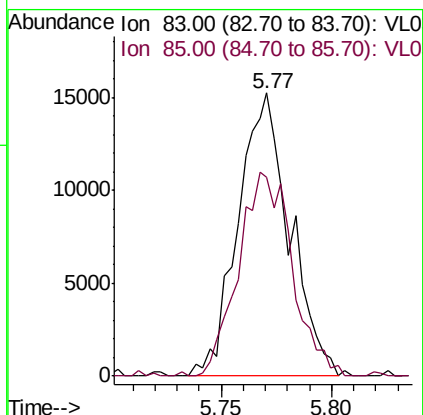
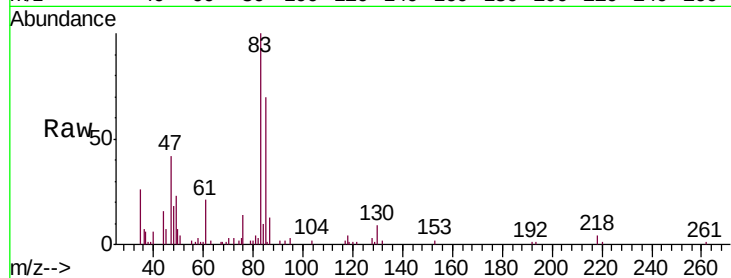
SV-4DL

Tgt Ion: 83 Resp: 24766

Ion Ratio Lower Upper

83 100

85 70.2 50.4 75.6



#31

cis-1,2-Dichloroethene

Concen: 1.500 ppbv

RT: 5.56 min Scan# 864

Delta R.T. 0.00 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

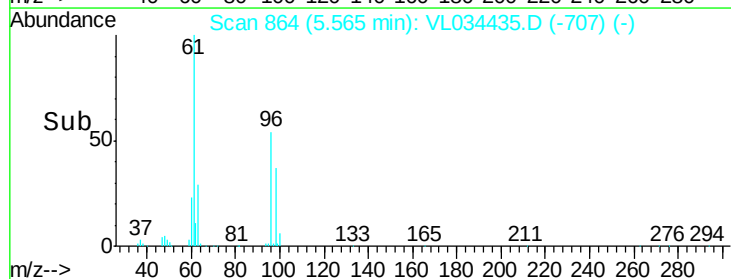
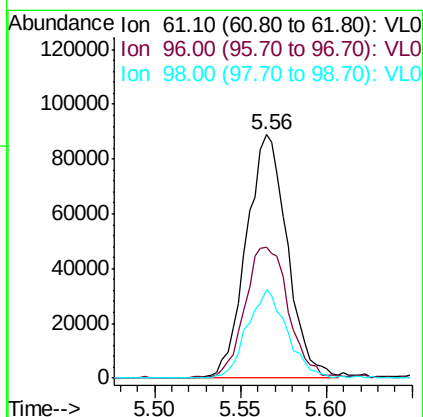
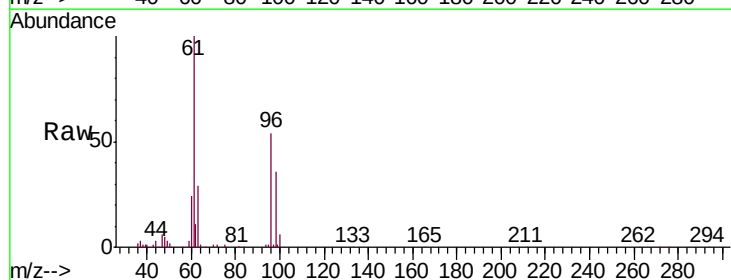
Tgt Ion: 61 Resp: 147118

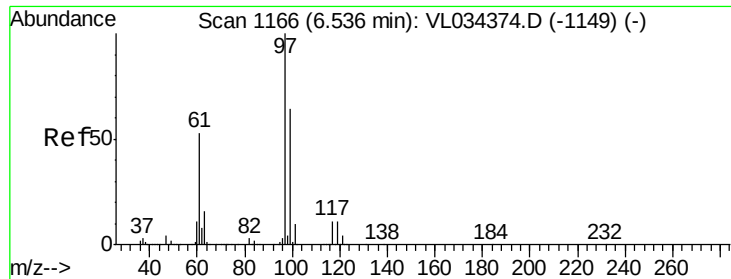
Ion Ratio Lower Upper

61 100

96 53.4 47.4 71.2

98 36.3 30.6 45.8





#32

1,1,1-Trichloroethane

Concen: 0.433 ppbv

RT: 6.54 min Scan# 1168

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Instrument :

MSVOA_L

ClientSampleId :

SV-4DL

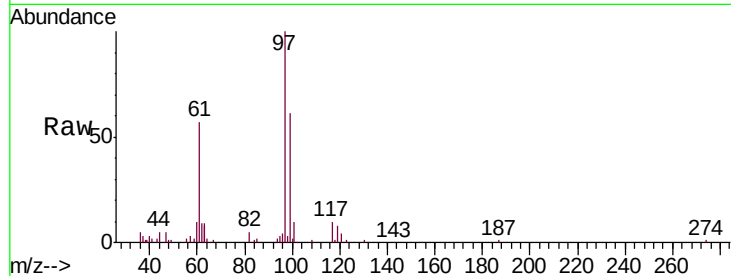
Tgt Ion: 97 Resp: 62411

Ion Ratio Lower Upper

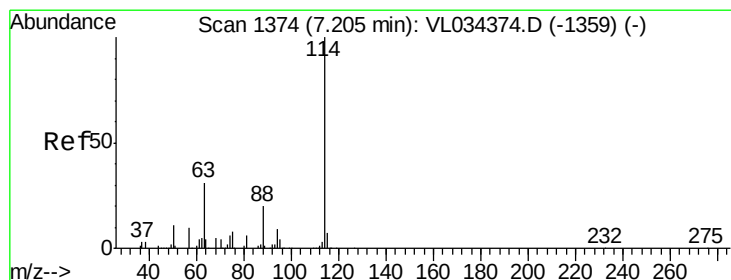
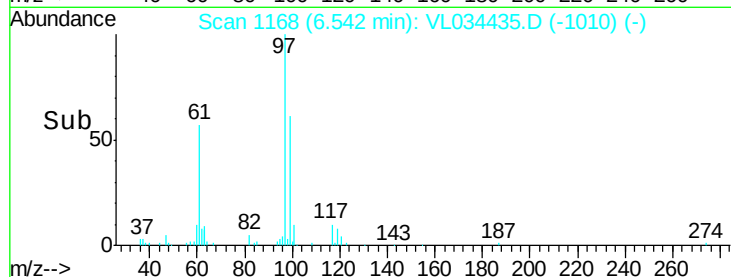
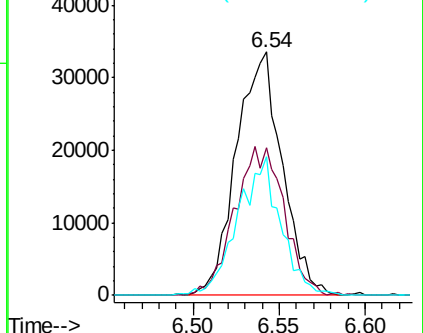
97 100

99 65.4 52.3 78.5

61 53.3 43.7 65.5



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

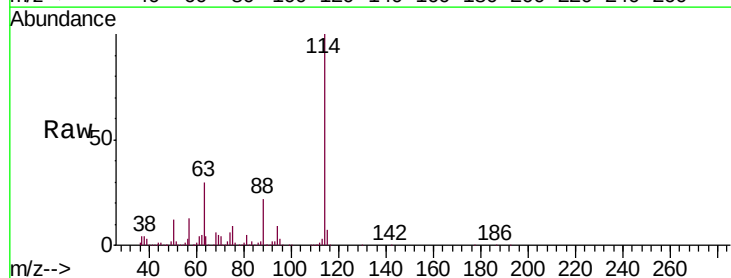
Tgt Ion: 114 Resp: 1750717

Ion Ratio Lower Upper

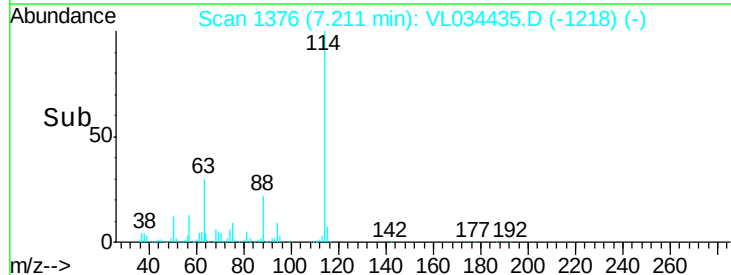
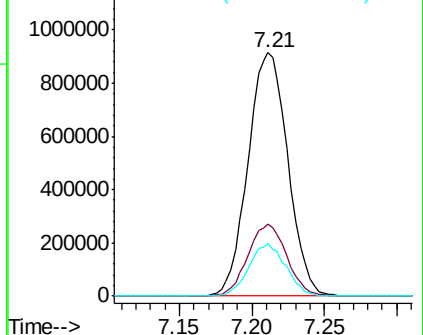
114 100

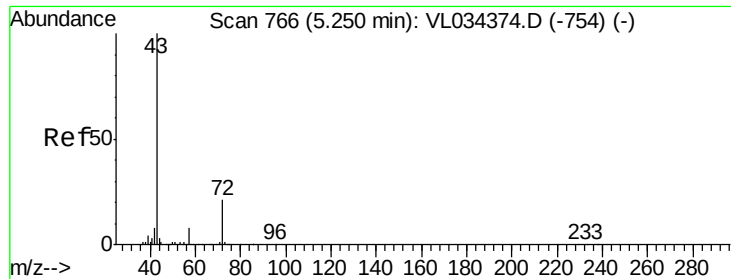
63 29.0 24.2 36.4

88 20.3 15.9 23.9



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

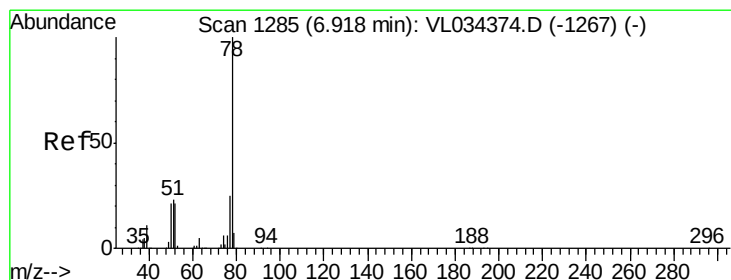
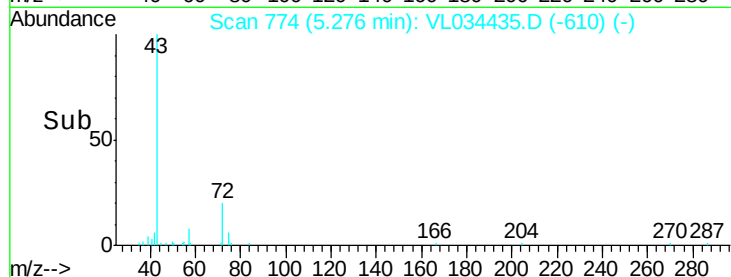
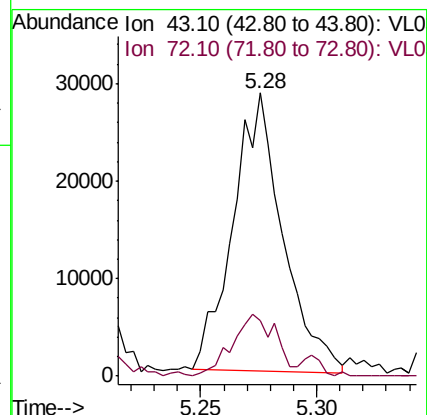
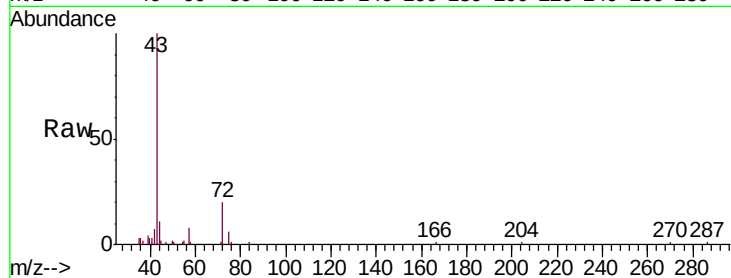




#34
 2-Butanone
 Concen: 0.296 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.03 min
 Lab File: VL034435.D
 Acq: 2 Dec 2019 20:45

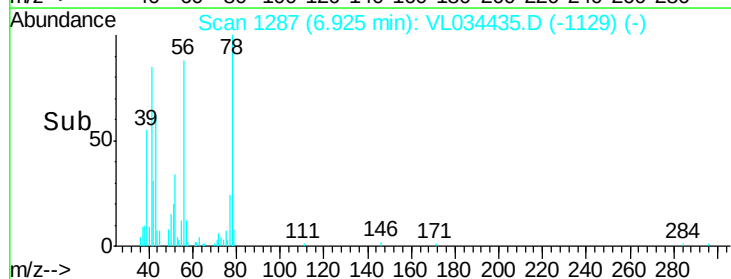
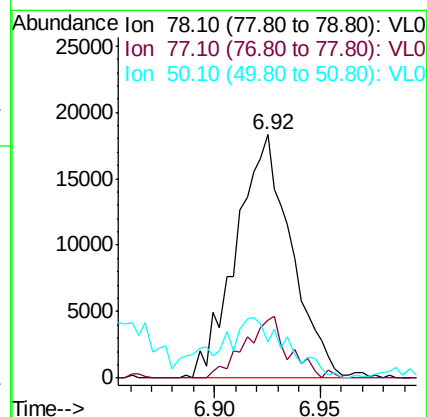
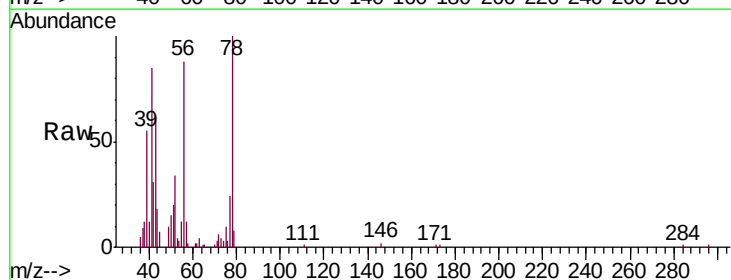
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4DL

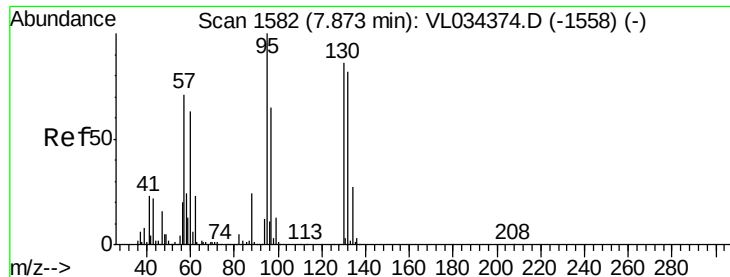
Tgt Ion: 43 Resp: 42616
 Ion Ratio Lower Upper
 43 100
 72 22.4 17.0 25.6



#36
 Benzene
 Concen: 0.189 ppbv
 RT: 6.92 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VL034435.D
 Acq: 2 Dec 2019 20:45

Tgt Ion: 78 Resp: 33047
 Ion Ratio Lower Upper
 78 100
 77 23.6 20.2 30.4
 50 13.6 17.1 25.7#





#38

Trichloroethene

Concen: 72.492 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Instrument :

MSVOA_L

ClientSampleId :

SV-4DL

Tgt Ion:130 Resp: 5206336

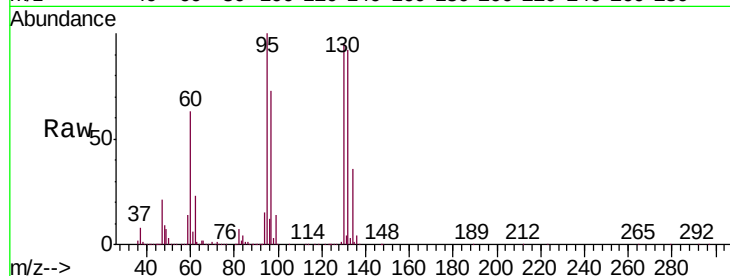
Ion Ratio Lower Upper

130 100

95 105.4 93.4 140.0

132 96.5 76.4 114.6

97 76.4 61.1 91.7

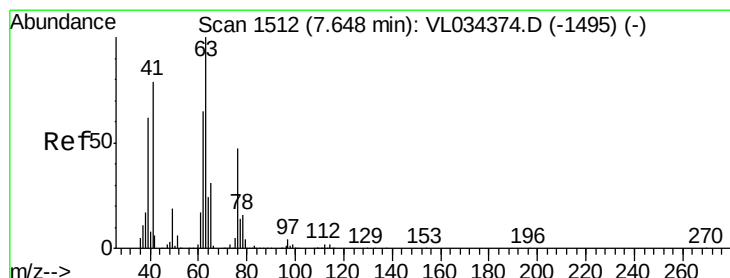
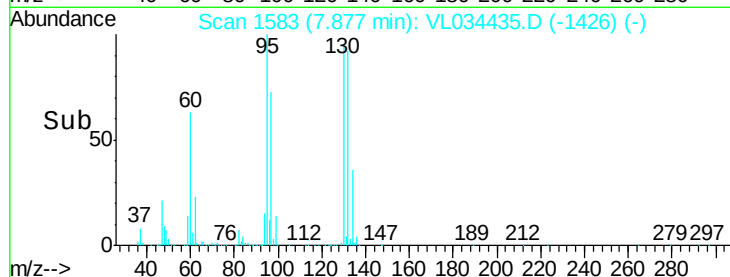
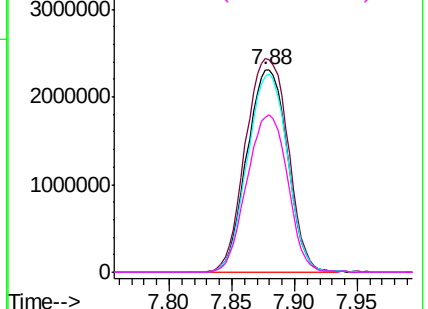


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.464 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. 0.22 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

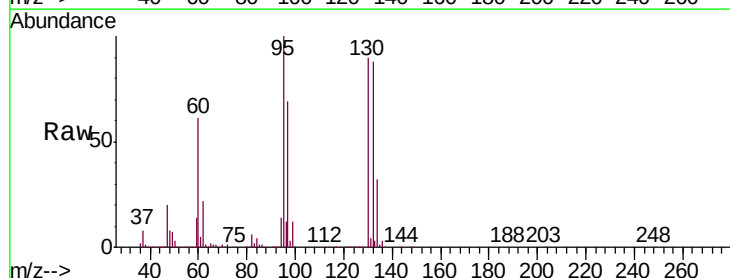
Tgt Ion: 63 Resp: 31281

Ion Ratio Lower Upper

63 100

41 16.1 63.1 94.7#

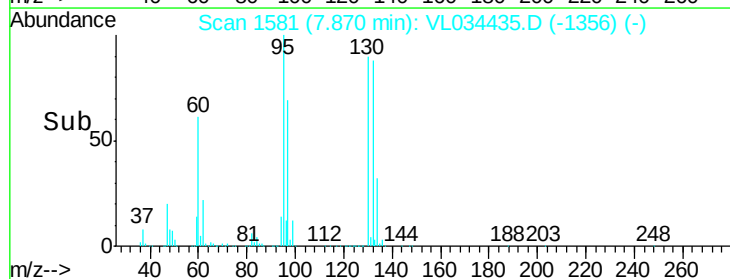
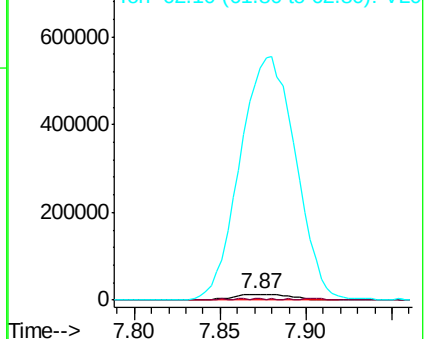
62 3466.8 52.3 78.5#

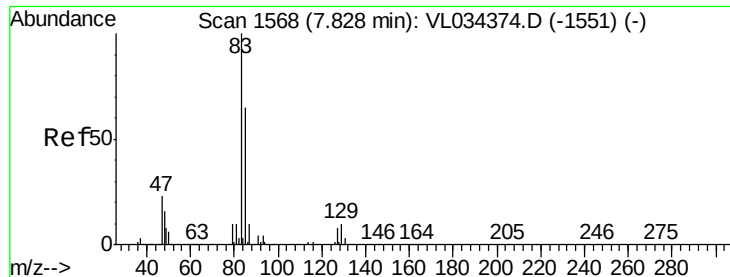


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.318 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.05 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Instrument :

MSVOA_L

ClientSampleId :

SV-4DL

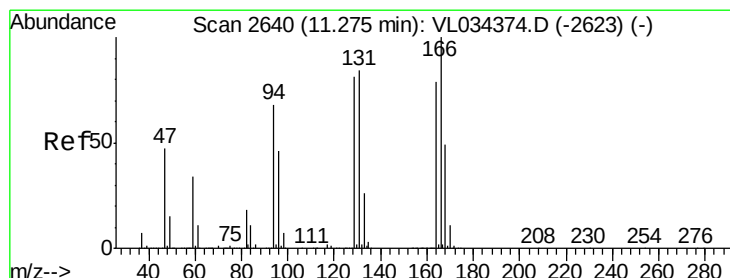
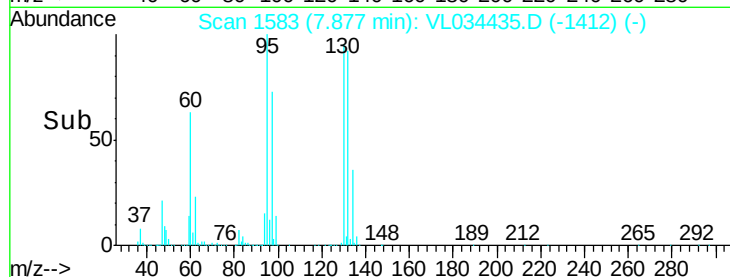
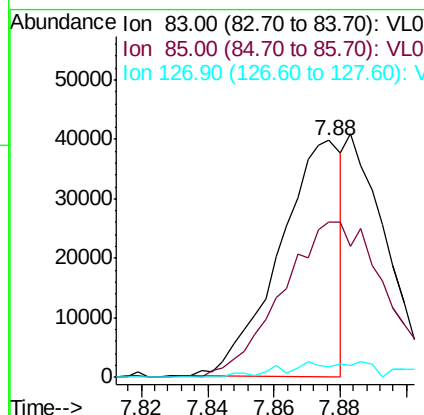
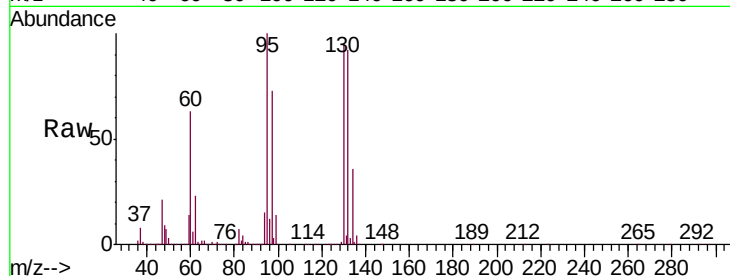
Tgt Ion: 83 Resp: 51747

Ion Ratio Lower Upper

83 100

85 65.4 52.3 78.5

127 4.8 6.1 9.1#



#52

Tetrachloroethene

Concen: 35.796 ppbv

RT: 11.28 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Tgt Ion: 164 Resp: 2710519

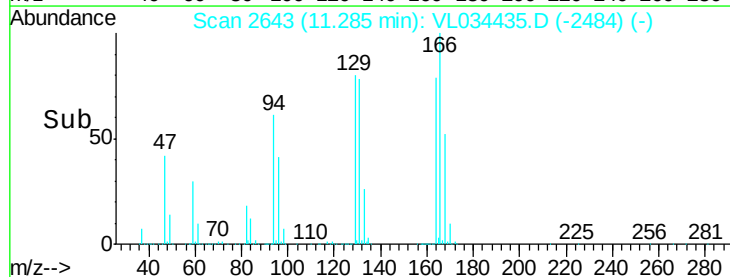
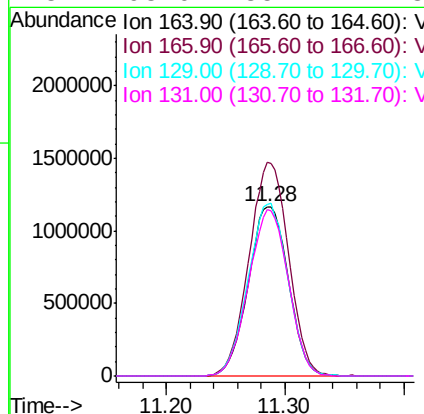
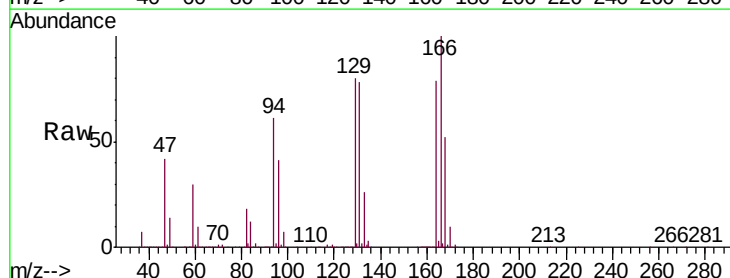
Ion Ratio Lower Upper

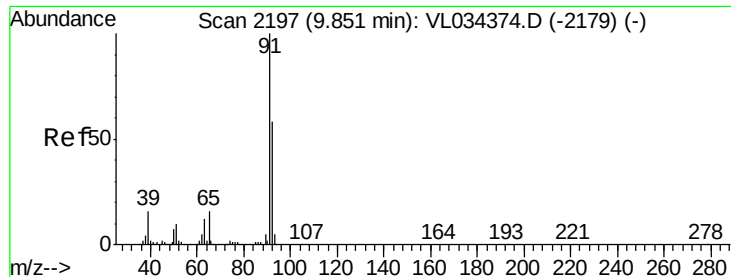
164 100

166 125.9 101.7 152.5

129 101.3 82.6 123.8

131 98.0 85.2 127.8





#53

Toluene

Concen: 0.234 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Instrument :

MSVOA_L

ClientSampleId :

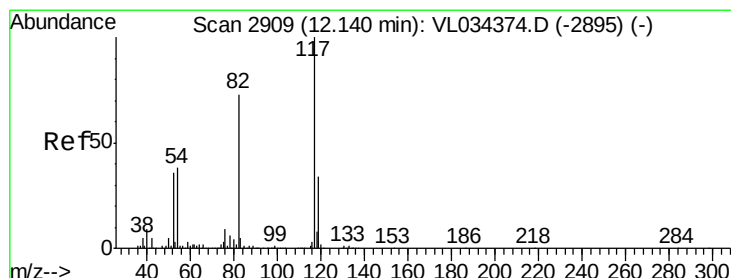
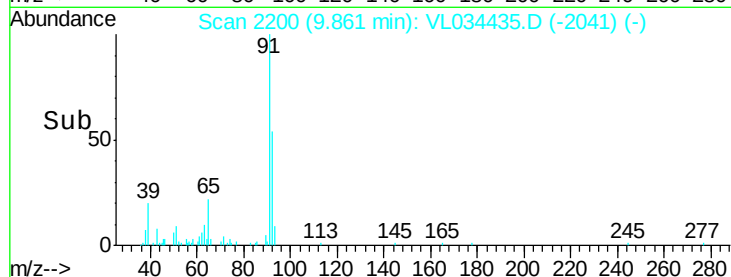
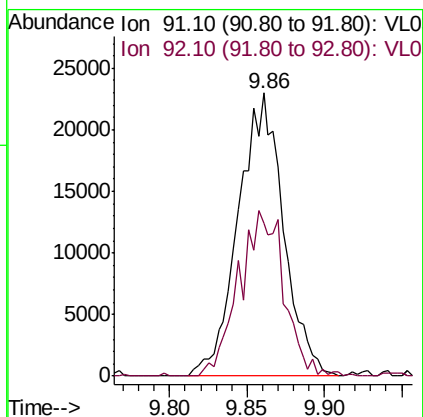
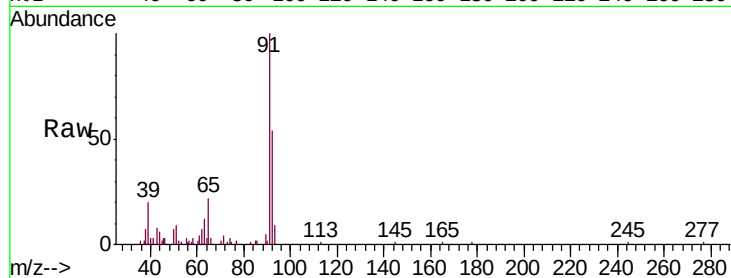
SV-4DL

Tgt Ion: 91 Resp: 46542

Ion Ratio Lower Upper

91 100

92 58.5 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. 0.01 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

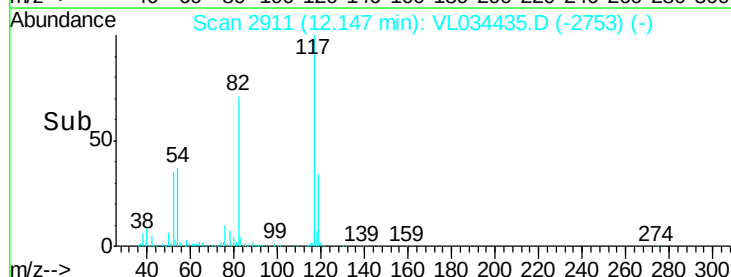
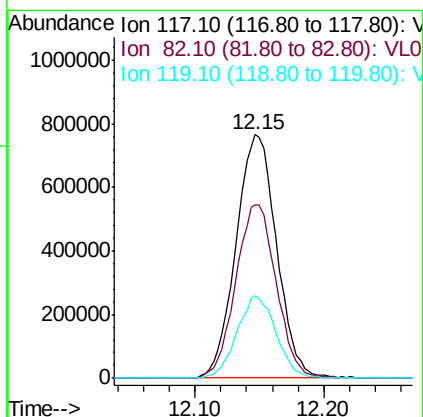
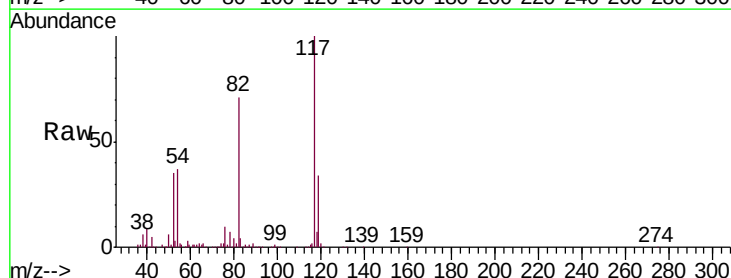
Tgt Ion: 117 Resp: 1671280

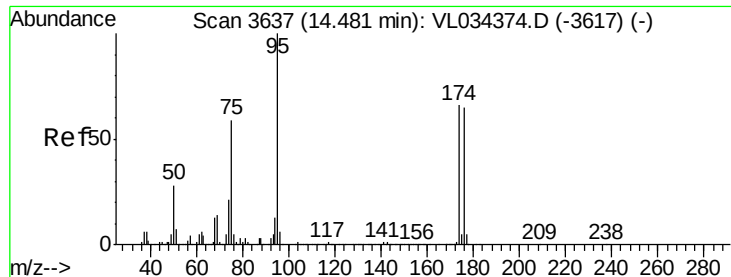
Ion Ratio Lower Upper

117 100

82 71.4 57.5 86.3

119 32.9 25.4 38.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.042 ppbv

RT: 14.48 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VL034435.D

Acq: 2 Dec 2019 20:45

Instrument :

MSVOA_L

ClientSampleId :

SV-4DL

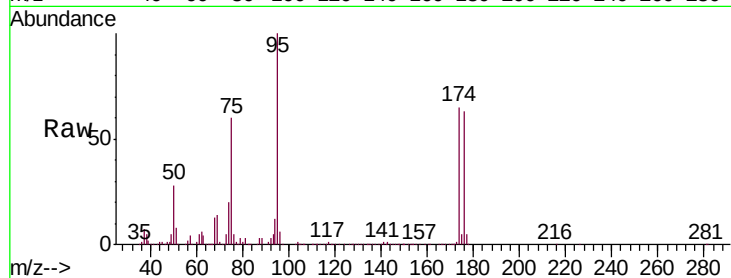
Tgt Ion: 95 Resp: 1411867

Ion Ratio Lower Upper

95 100

174 67.3 52.2 78.2

175 5.0 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

