

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120219\
 Data File : VL034433.D
 Acq On : 2 Dec 2019 19:27
 Operator : SY/AP
 Sample : K6068-03DL2 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL2

Quant Time: Dec 03 02:51:24 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	855378	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1701357	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1638024	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1376939	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

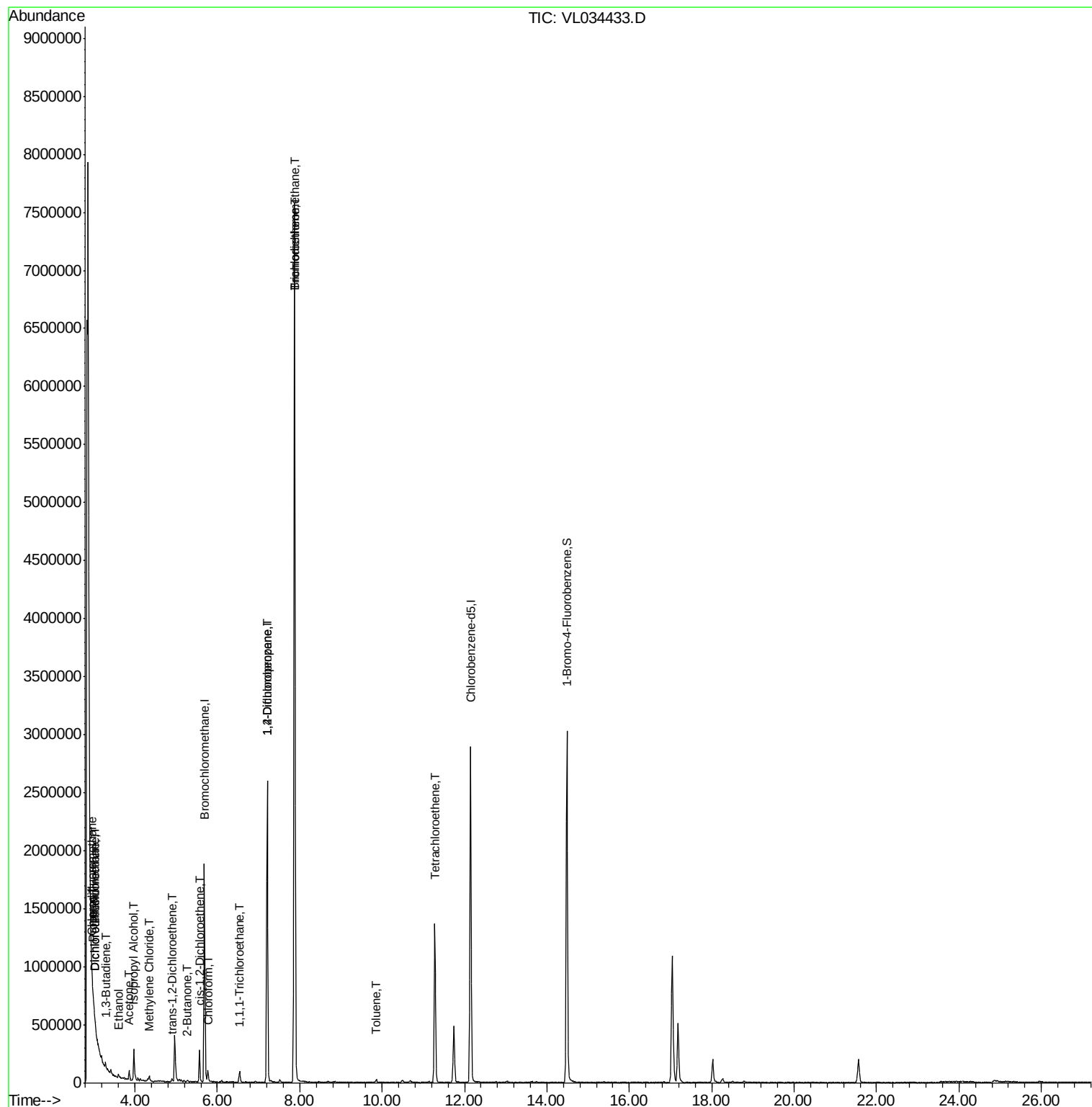
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	18273	0.118	ppbv	98
3) Chlorodifluoromethane	2.97	51	6605	0.062	ppbv #	87
8) Dichlorotetrafluoroethane	3.03	85	18273	0.131	ppbv #	22
9) Propene	2.98	41	1986	0.042	ppbv #	16
13) Ethanol	3.60	45	21852	1.656	ppbv #	59
15) Acetone	3.85	43	79720	0.651	ppbv	95
16) 1,3-Butadiene	3.29	39	13709	0.257	ppbv #	13
19) Isopropyl Alcohol	3.97	45	277508	3.535	ppbv	100
20) Methylene Chloride	4.35	84	11230	0.259	ppbv #	72
22) trans-1,2-Dichloroethene	4.90	96	4458	0.099	ppbv	82
29) Chloroform	5.77	83	58392	0.384	ppbv	98
31) cis-1,2-Dichloroethene	5.57	61	145035	1.494	ppbv	96
32) 1,1,1-Trichloroethane	6.54	97	53447	0.375	ppbv	97
34) 2-Butanone	5.28	43	8422	0.060	ppbv #	84
38) Trichloroethene	7.87	130	2292561	32.847	ppbv	98
39) 1,2-Dichloropropane	7.21	63	495558	7.563	ppbv #	23
42) Bromodichloromethane	7.88	83	39412	0.249	ppbv	92
52) Tetrachloroethene	11.28	164	318136	4.323	ppbv	92
53) Toluene	9.86	91	5949	0.031	ppbv #	21

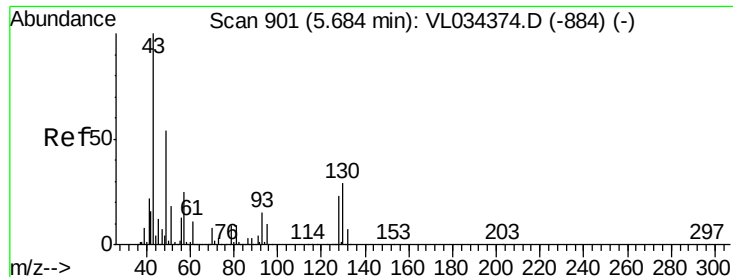
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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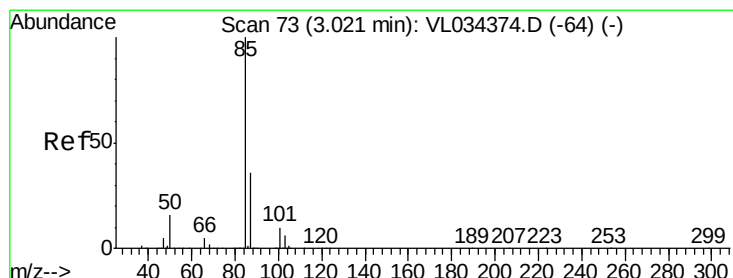
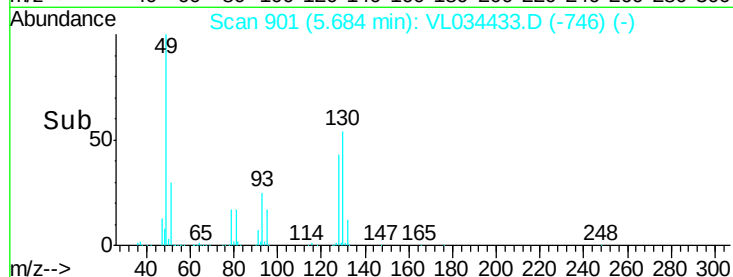
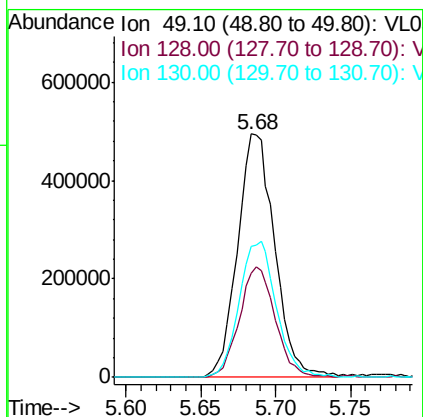
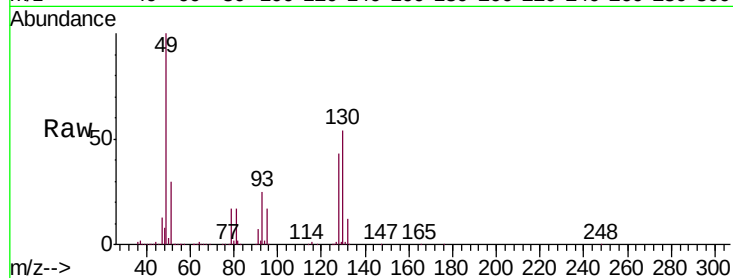




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VL034433.D
 Acq: 2 Dec 2019 19:27

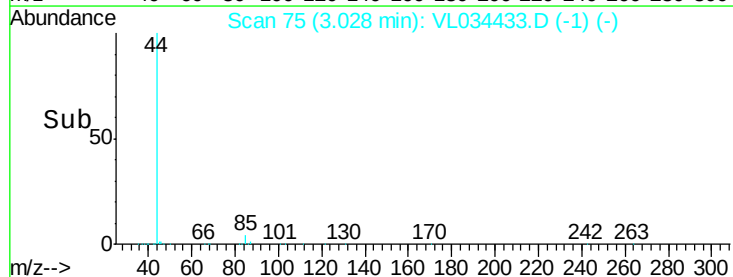
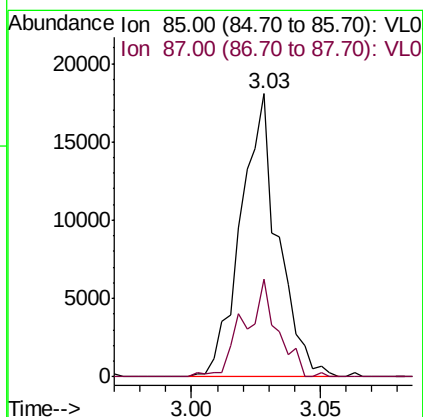
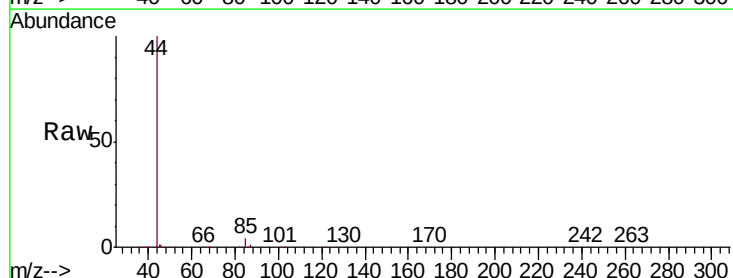
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL2

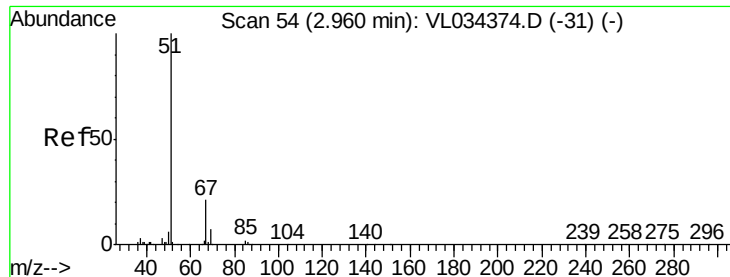
Tgt Ion: 49 Resp: 855378
 Ion Ratio Lower Upper
 49 100
 128 44.6 21.8 65.3
 130 56.6 28.0 84.0



#2
 Dichlorodifluoromethane
 Concen: 0.118 ppbv
 RT: 3.03 min Scan# 75
 Delta R.T. 0.01 min
 Lab File: VL034433.D
 Acq: 2 Dec 2019 19:27

Tgt Ion: 85 Resp: 18273
 Ion Ratio Lower Upper
 85 100
 87 34.6 28.5 42.7





#3

Chlorodifluoromethane

Concen: 0.062 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

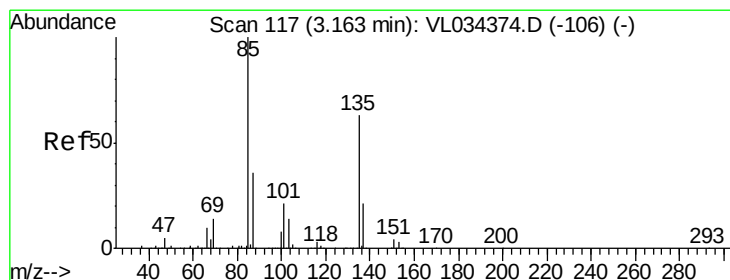
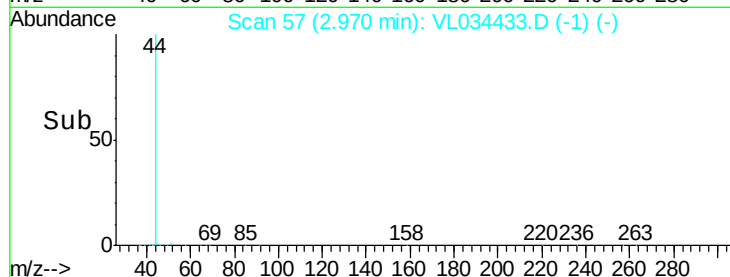
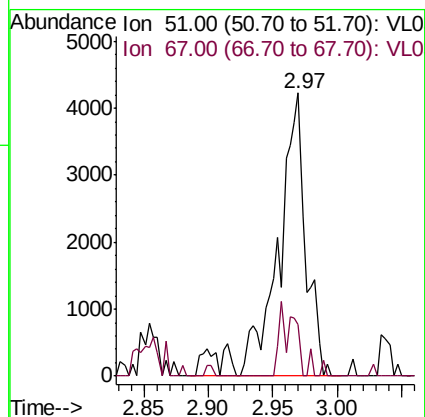
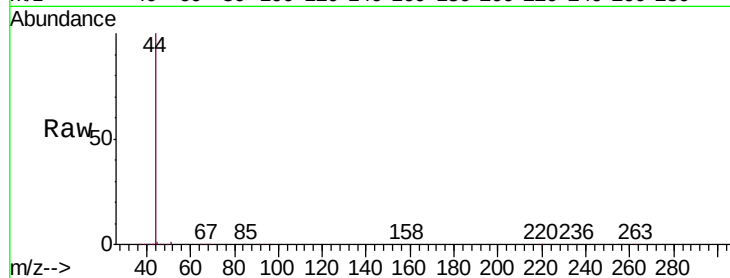
SV-3DL2

Tgt Ion: 51 Resp: 6605

Ion Ratio Lower Upper

51 100

67 14.1 16.2 24.2#



#8

Dichlorotetrafluoroethane

Concen: 0.131 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.14 min

Lab File: VL034433.D

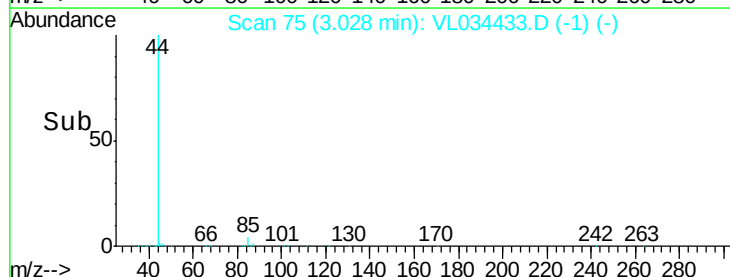
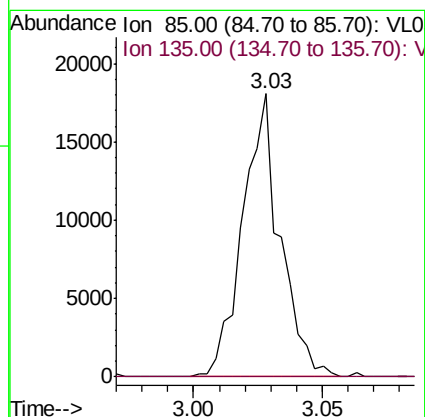
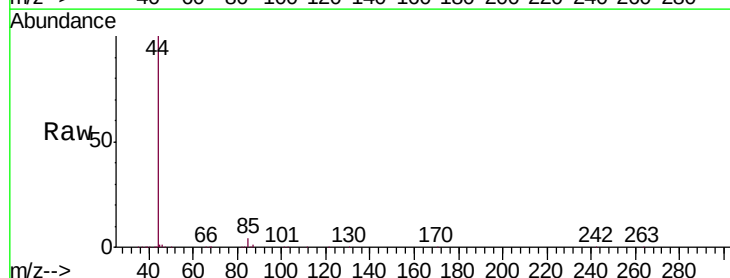
Acq: 2 Dec 2019 19:27

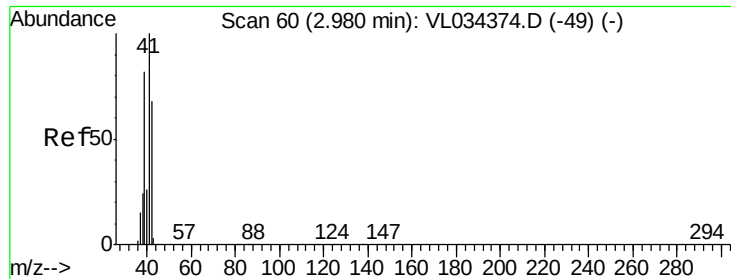
Tgt Ion: 85 Resp: 18273

Ion Ratio Lower Upper

85 100

135 3.2 51.1 76.7#





#9

Propene

Concen: 0.042 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

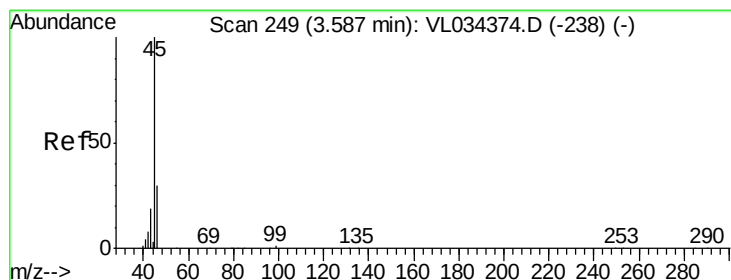
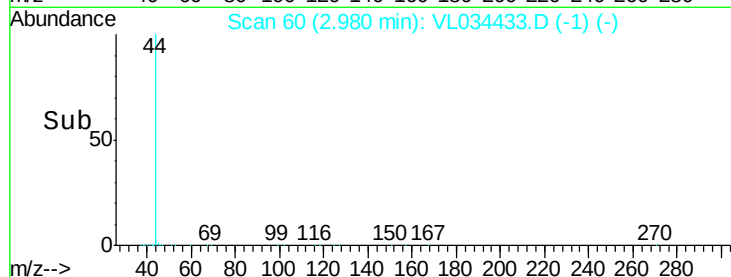
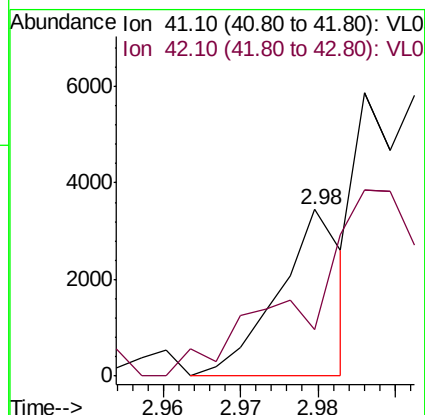
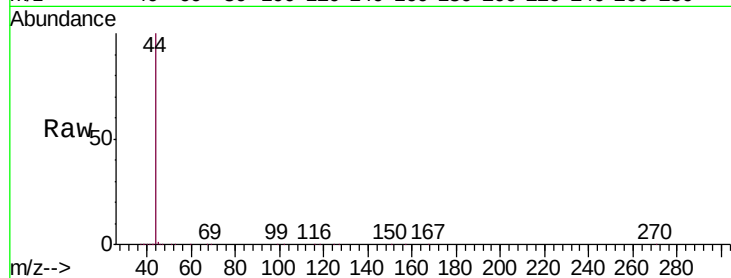
SV-3DL2

Tgt Ion: 41 Resp: 1986

Ion Ratio Lower Upper

41 100

42 0.0 54.6 82.0#



#13

Ethanol

Concen: 1.656 ppbv

RT: 3.60 min Scan# 252

Delta R.T. 0.01 min

Lab File: VL034433.D

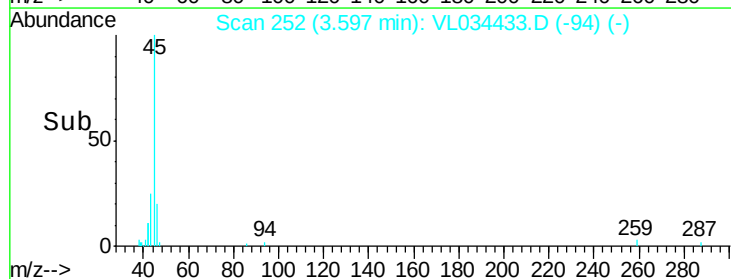
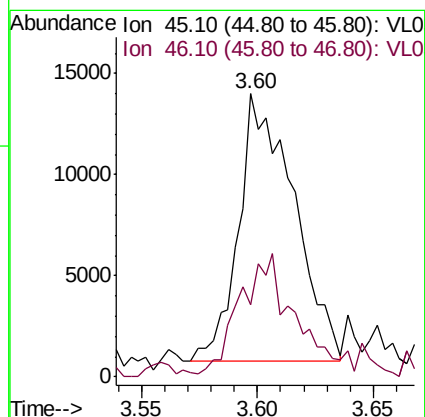
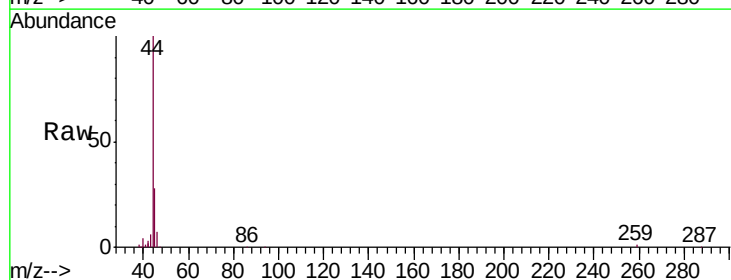
Acq: 2 Dec 2019 19:27

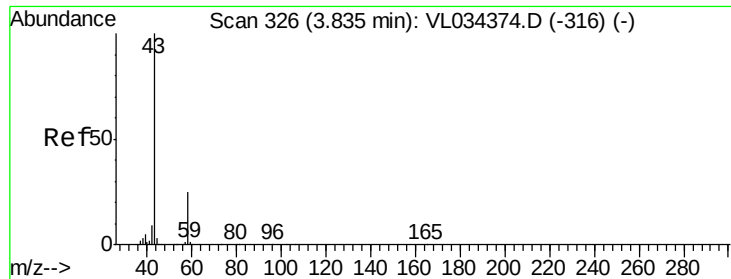
Tgt Ion: 45 Resp: 21852

Ion Ratio Lower Upper

45 100

46 58.0 13.8 55.4#





#15

Acetone

Concen: 0.651 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

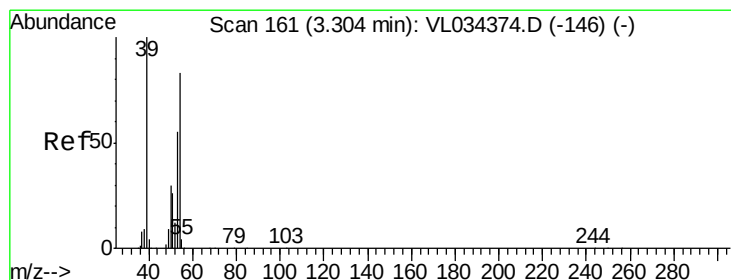
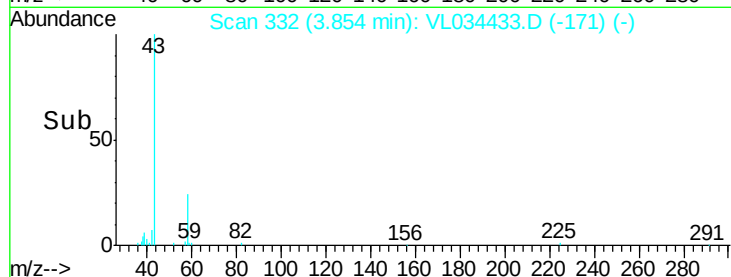
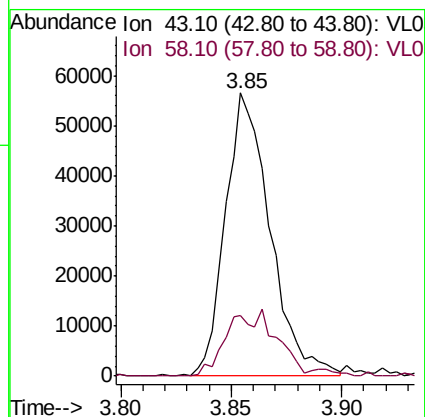
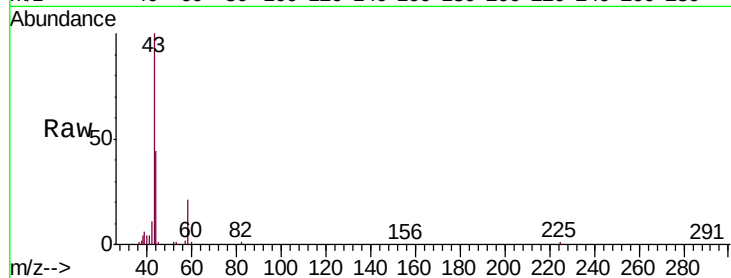
SV-3DL2

Tgt Ion: 43 Resp: 79720

Ion Ratio Lower Upper

43 100

58 27.6 20.2 30.4



#16

1,3-Butadiene

Concen: 0.257 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.01 min

Lab File: VL034433.D

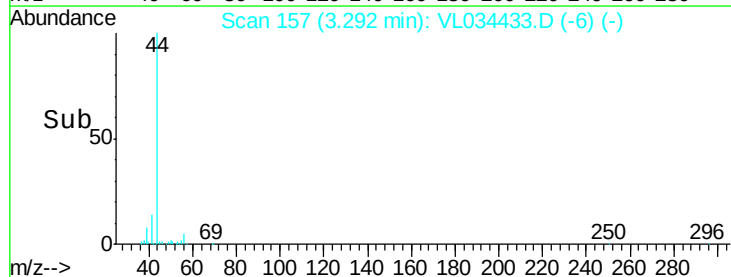
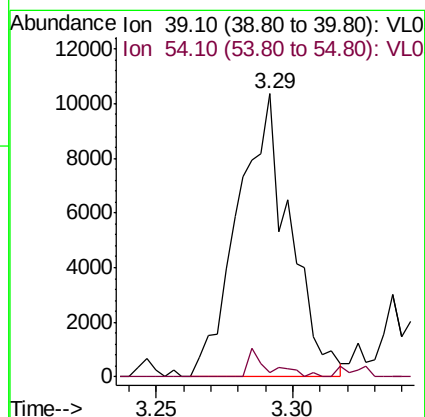
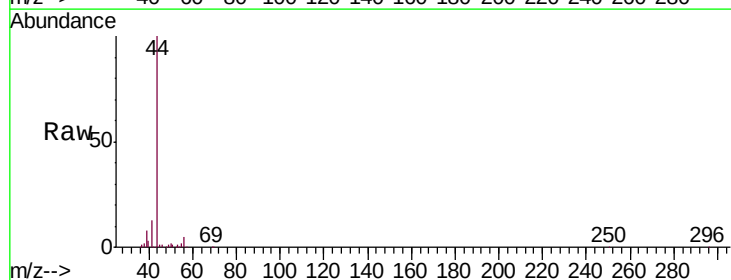
Acq: 2 Dec 2019 19:27

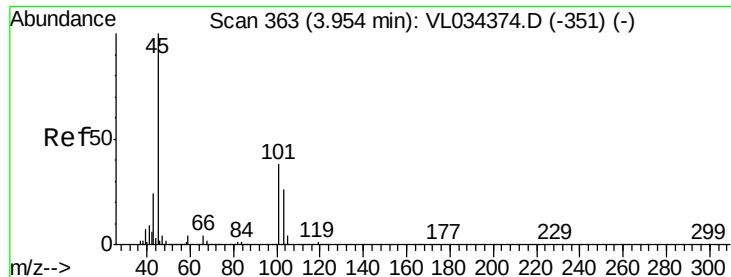
Tgt Ion: 39 Resp: 13709

Ion Ratio Lower Upper

39 100

54 3.9 64.7 97.1#





#19

Isopropyl Alcohol

Concen: 3.535 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.02 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

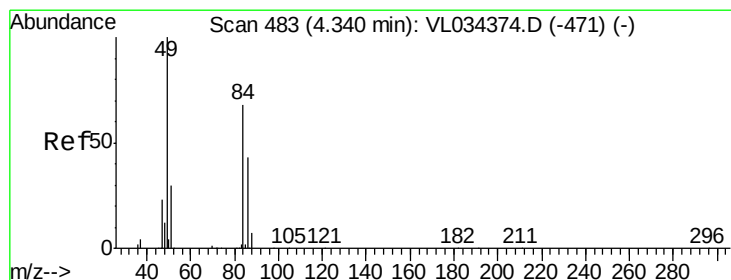
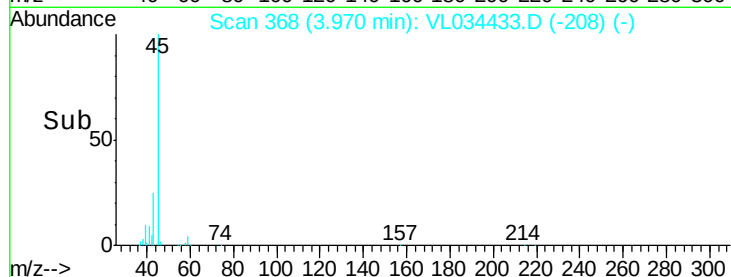
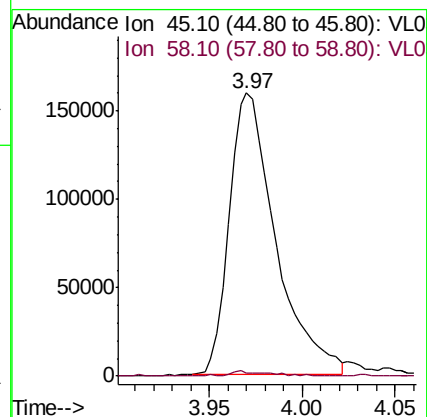
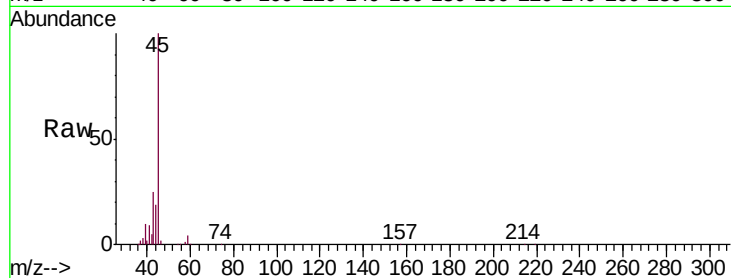
SV-3DL2

Tgt Ion: 45 Resp: 277508

Ion Ratio Lower Upper

45 100

58 1.7 1.3 1.9



#20

Methylene Chloride

Concen: 0.259 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Tgt Ion: 84 Resp: 11230

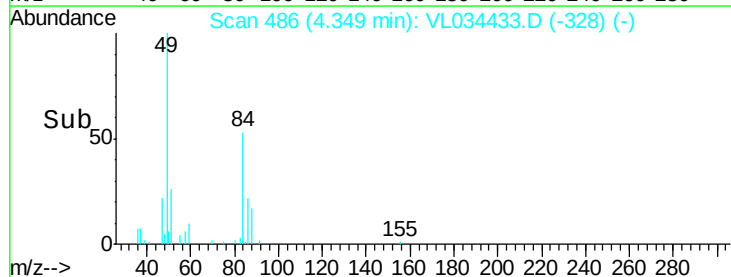
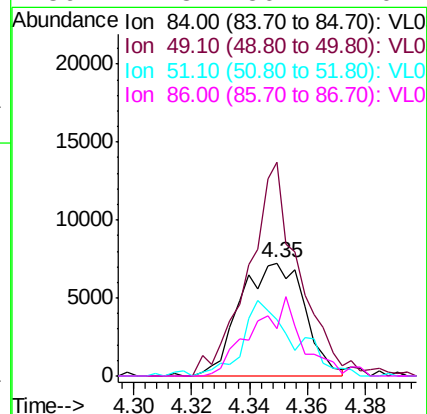
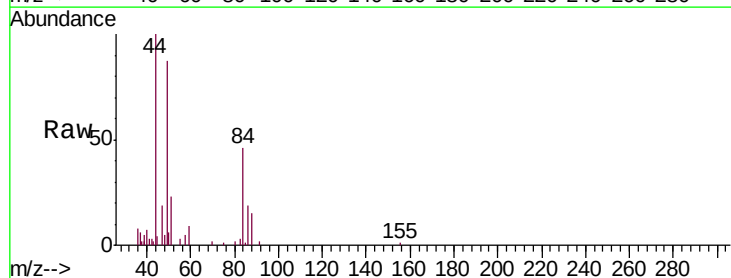
Ion Ratio Lower Upper

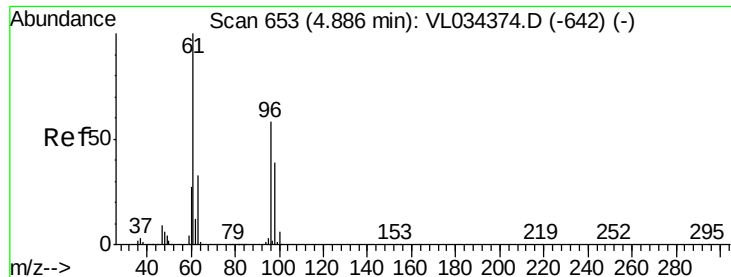
84 100

49 188.7 116.8 175.2#

51 49.6 35.6 53.4

86 41.8 50.7 76.1#





#22

trans-1,2-Dichloroethene

Concen: 0.099 ppbv

RT: 4.90 min Scan# 657

Delta R.T. 0.01 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL2

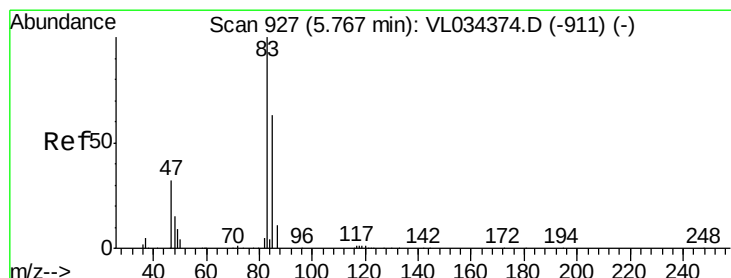
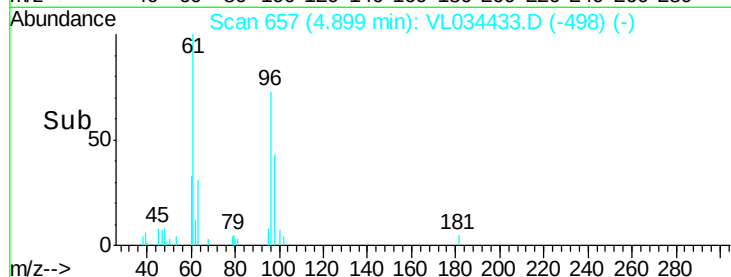
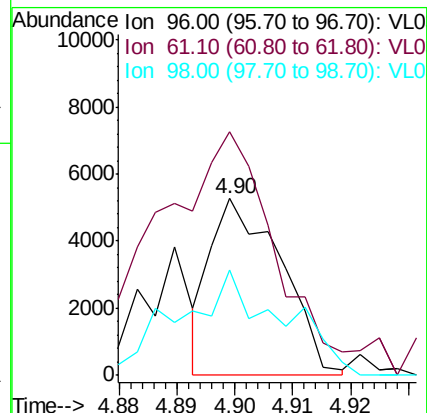
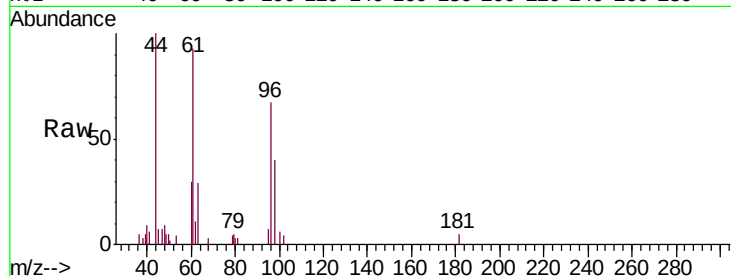
Tgt Ion: 96 Resp: 4458

Ion Ratio Lower Upper

96 100

61 145.6 137.9 206.9

98 54.0 53.5 80.3



#29

Chloroform

Concen: 0.384 ppbv

RT: 5.77 min Scan# 929

Delta R.T. 0.01 min

Lab File: VL034433.D

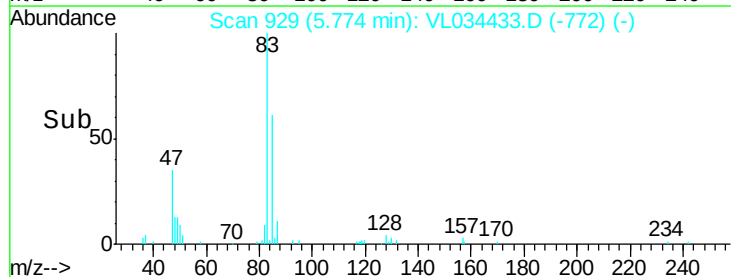
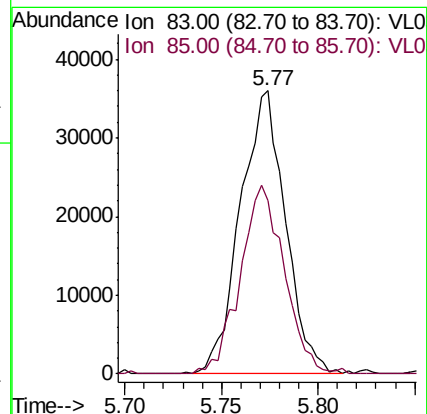
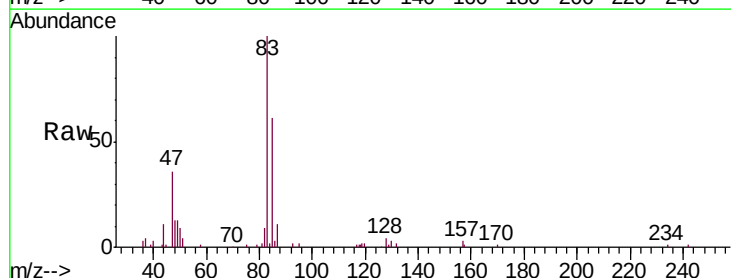
Acq: 2 Dec 2019 19:27

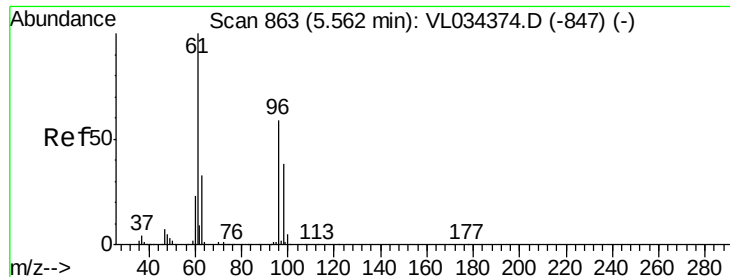
Tgt Ion: 83 Resp: 58392

Ion Ratio Lower Upper

83 100

85 61.4 50.4 75.6



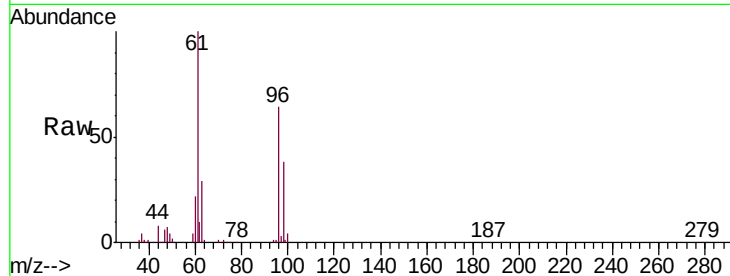


#31

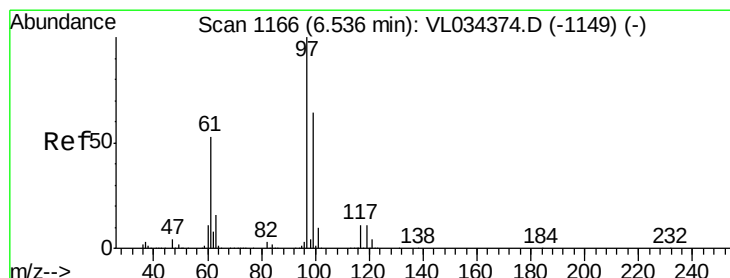
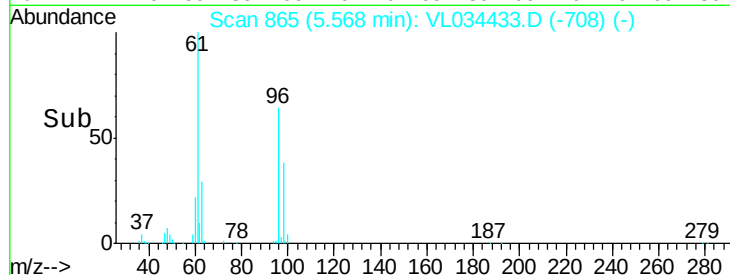
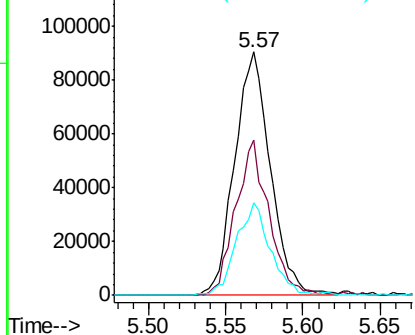
cis-1,2-Dichloroethene
 Concen: 1.494 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VL034433.D
 Acq: 2 Dec 2019 19:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL2

Tgt Ion	Ratio	Lower	Upper
61	100		
96	63.8	47.4	71.2
98	37.8	30.6	45.8



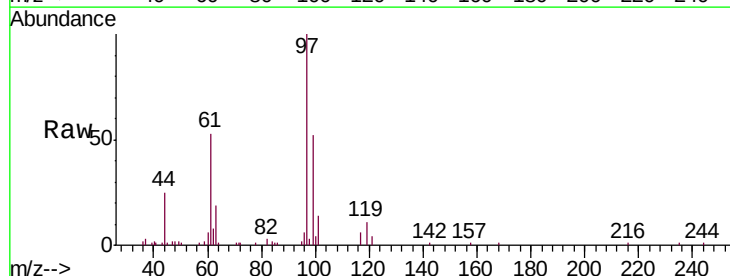
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



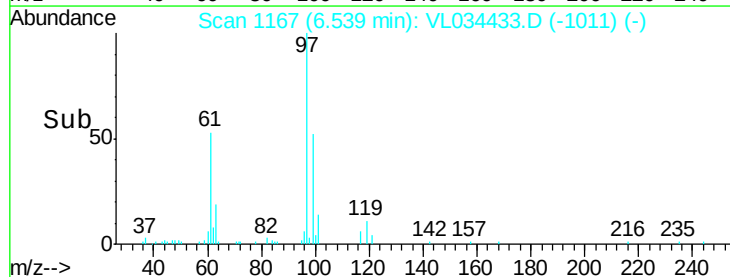
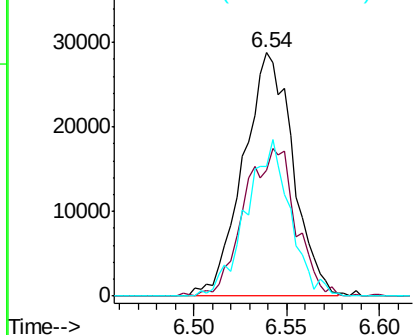
#32

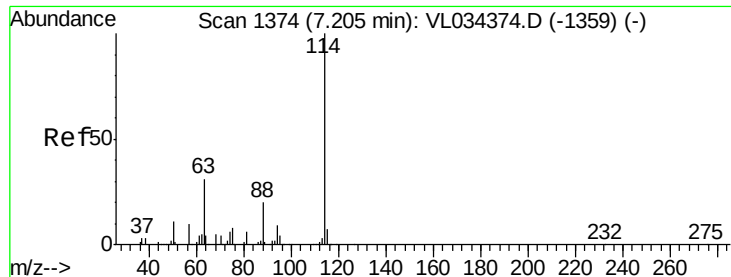
1,1,1-Trichloroethane
 Concen: 0.375 ppbv
 RT: 6.54 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VL034433.D
 Acq: 2 Dec 2019 19:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.0	52.3	78.5
61	56.9	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

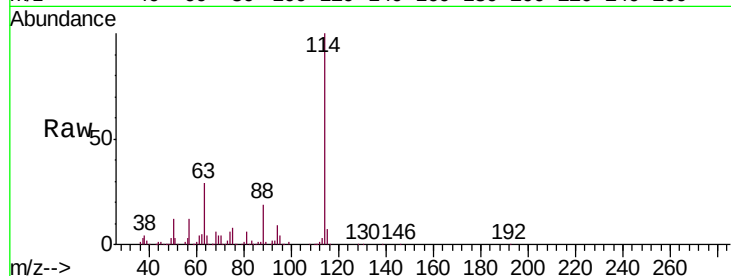




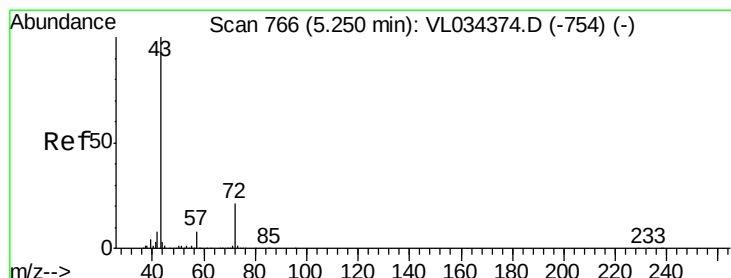
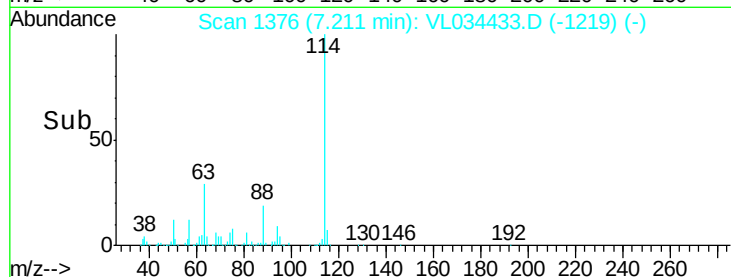
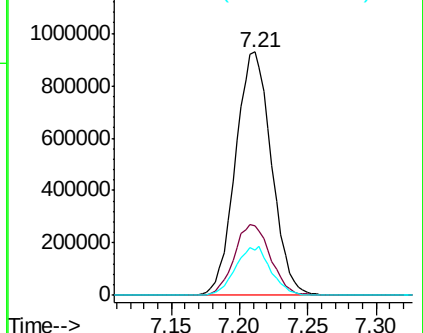
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VL034433.D
 Acq: 2 Dec 2019 19:27

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL2

Tgt Ion:114 Resp: 1701357
 Ion Ratio Lower Upper
 114 100
 63 29.3 24.2 36.4
 88 19.5 15.9 23.9

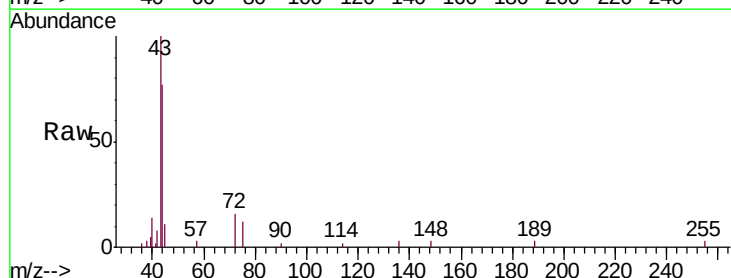


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

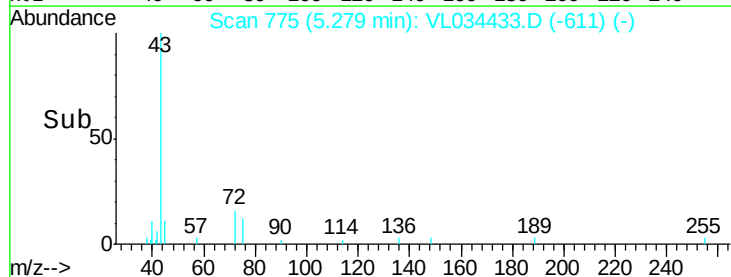
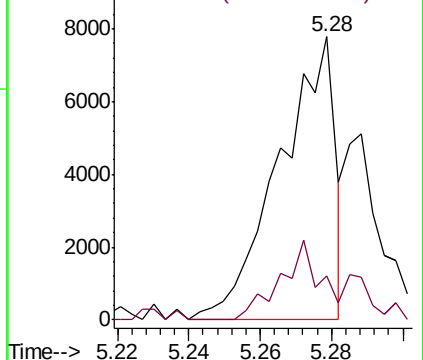


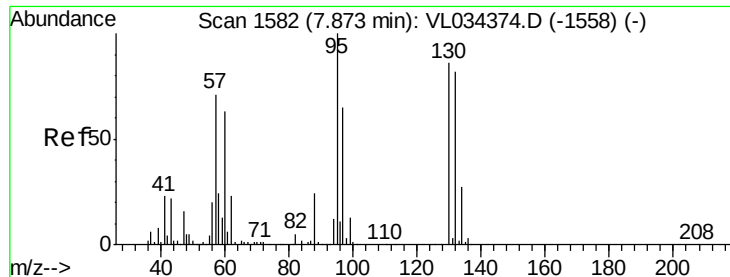
#34
 2-Butanone
 Concen: 0.060 ppbv
 RT: 5.28 min Scan# 775
 Delta R.T. 0.03 min
 Lab File: VL034433.D
 Acq: 2 Dec 2019 19:27

Tgt Ion: 43 Resp: 8422
 Ion Ratio Lower Upper
 43 100
 72 28.9 17.0 25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#38

Trichloroethene

Concen: 32.847 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL2

Tgt Ion:130 Resp: 2292561

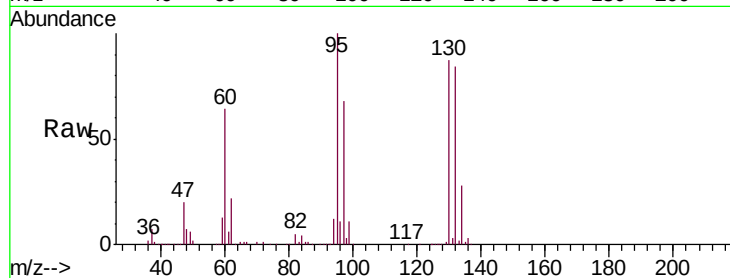
Ion Ratio Lower Upper

130 100

95 115.4 93.4 140.0

132 96.4 76.4 114.6

97 78.8 61.1 91.7

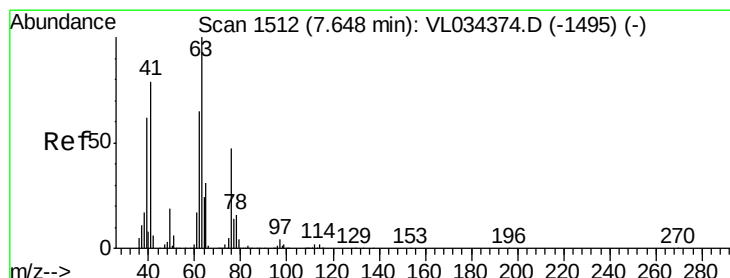
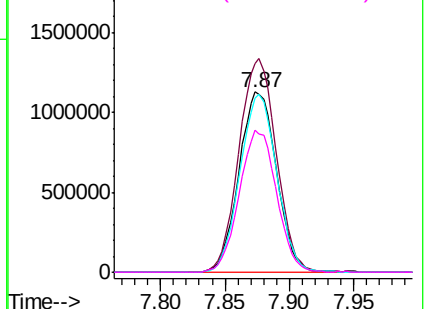
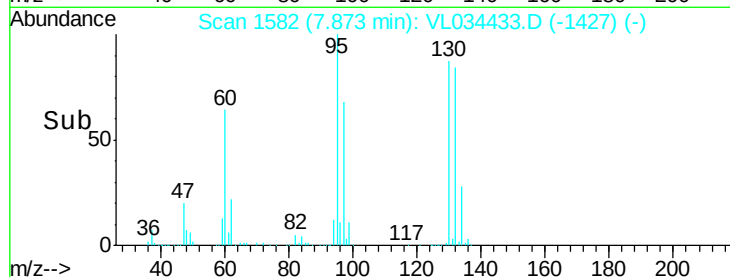


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.563 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.44 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

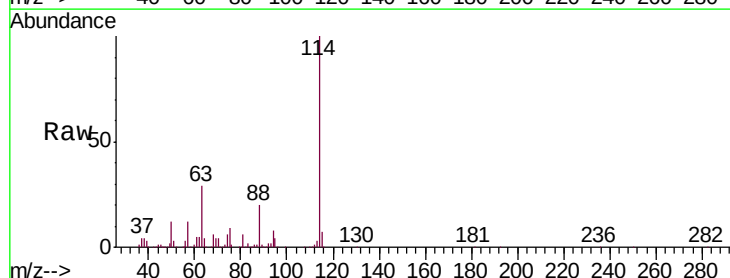
Tgt Ion: 63 Resp: 495558

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

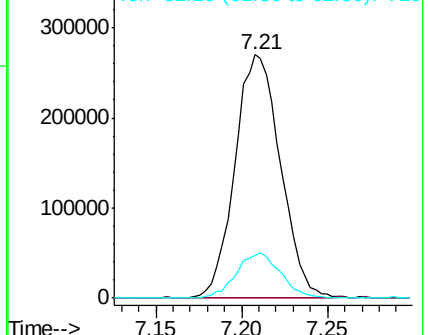
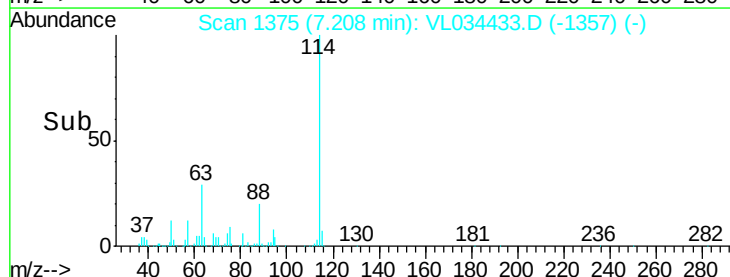
62 17.5 52.3 78.5#

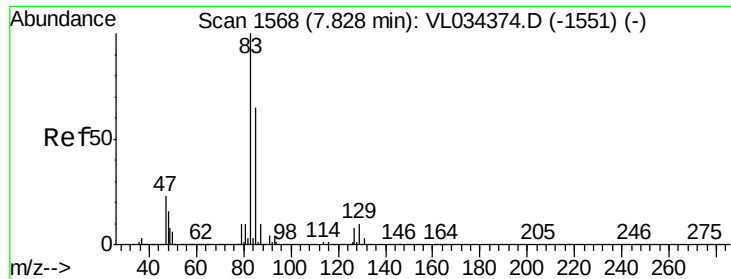


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.249 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.05 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL2

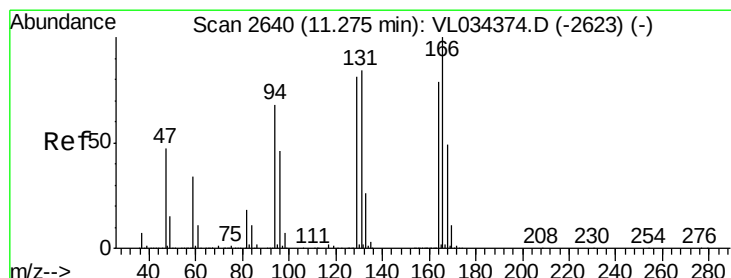
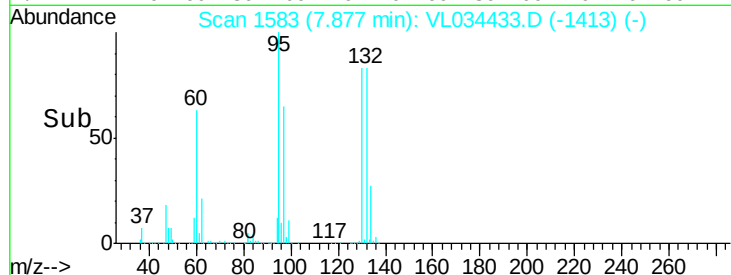
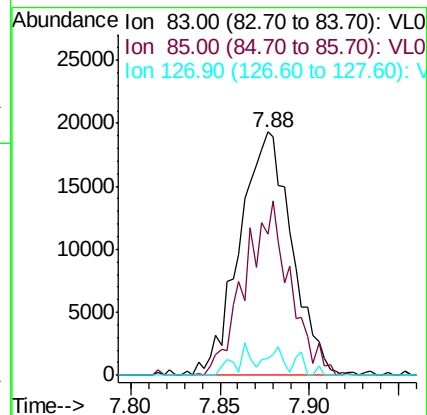
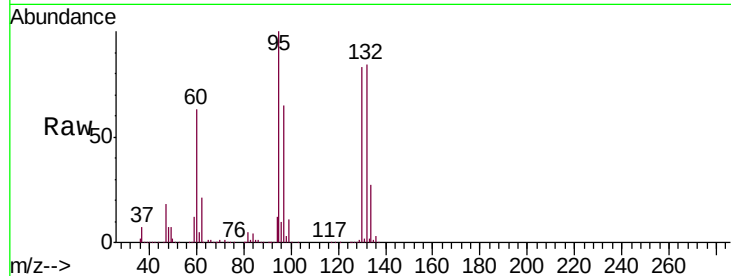
Tgt Ion: 83 Resp: 39412

Ion Ratio Lower Upper

83 100

85 58.2 52.3 78.5

127 6.9 6.1 9.1



#52

Tetrachloroethene

Concen: 4.323 ppbv

RT: 11.28 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Tgt Ion: 164 Resp: 318136

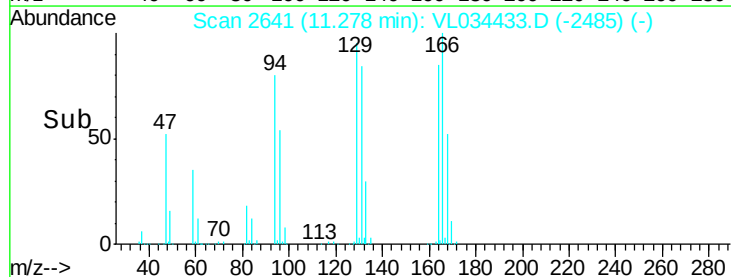
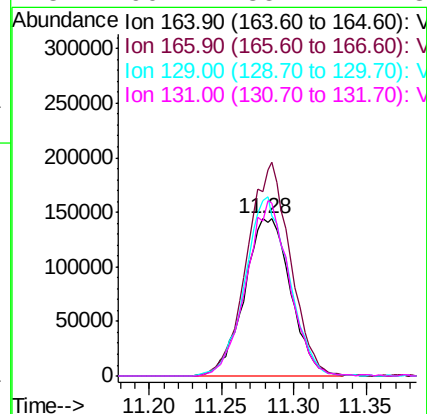
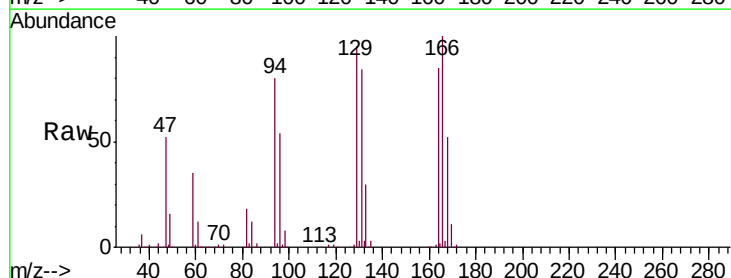
Ion Ratio Lower Upper

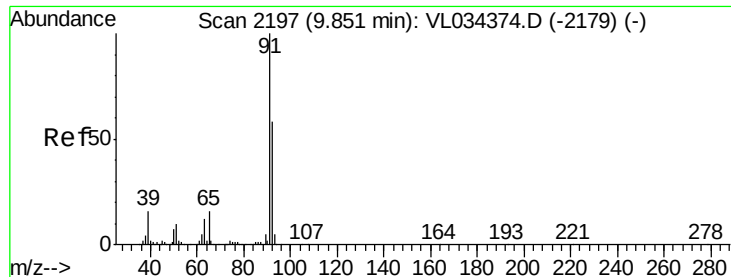
164 100

166 117.2 101.7 152.5

129 111.5 82.6 123.8

131 99.1 85.2 127.8





#53

Toluene

Concen: 0.031 ppbv

RT: 9.86 min Scan# 2199

Delta R.T. 0.01 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

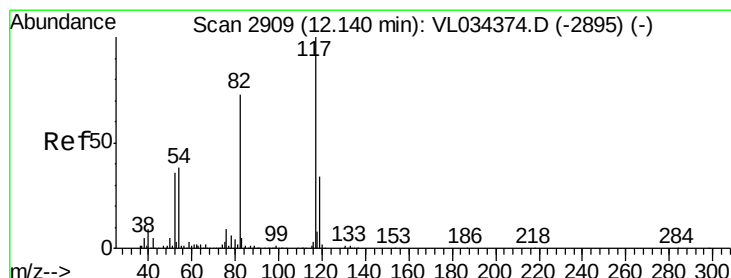
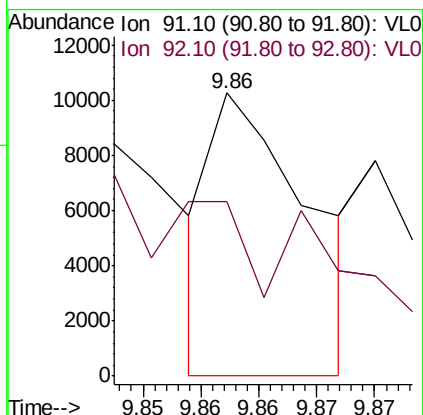
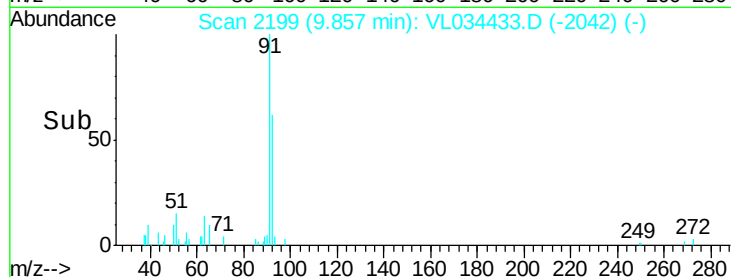
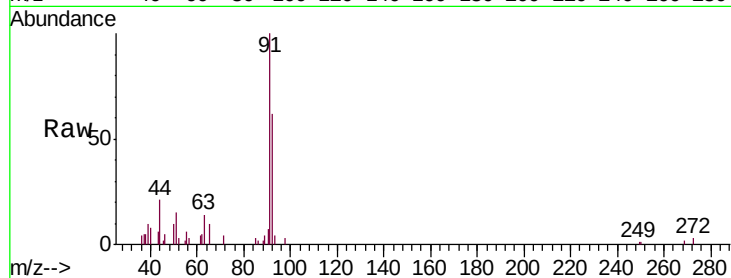
SV-3DL2

Tgt Ion: 91 Resp: 5949

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: VL034433.D

Acq: 2 Dec 2019 19:27

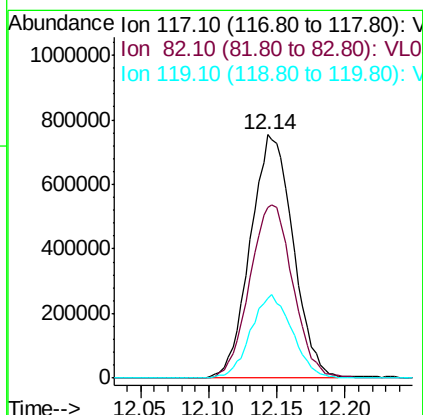
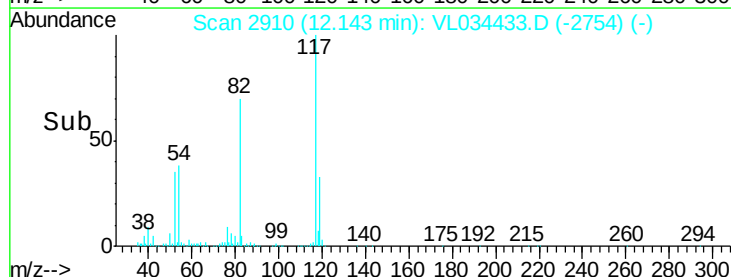
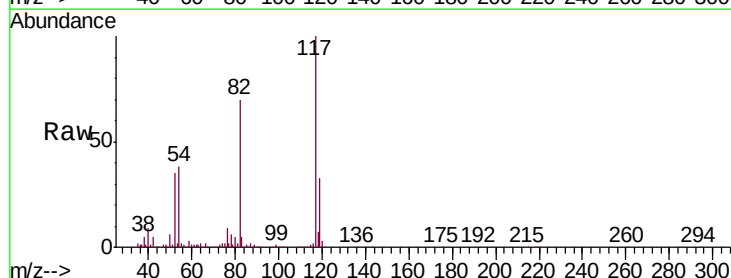
Tgt Ion: 117 Resp: 1638024

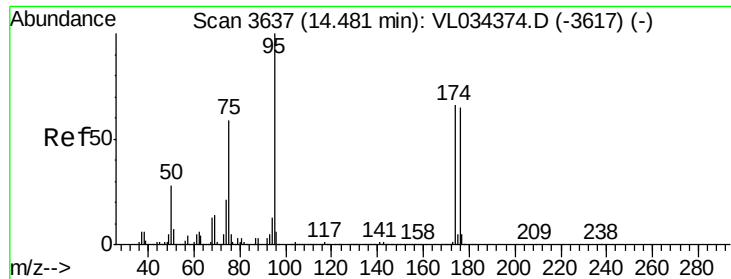
Ion Ratio Lower Upper

117 100

82 72.3 57.5 86.3

119 33.6 25.4 38.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.992 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VL034433.D

Acq: 2 Dec 2019 19:27

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL2

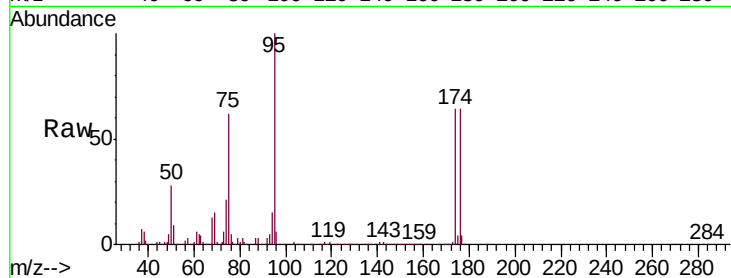
Tgt Ion: 95 Resp: 1376939

Ion Ratio Lower Upper

95 100

174 65.0 52.2 78.2

175 4.7 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

