

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035715.D
 Acq On : 23 Sep 2020 12:23
 Operator : SY/AP
 Sample : L4079-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-1DL

Quant Time: Sep 24 08:25:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1271072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4657227	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4650627	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3510774	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

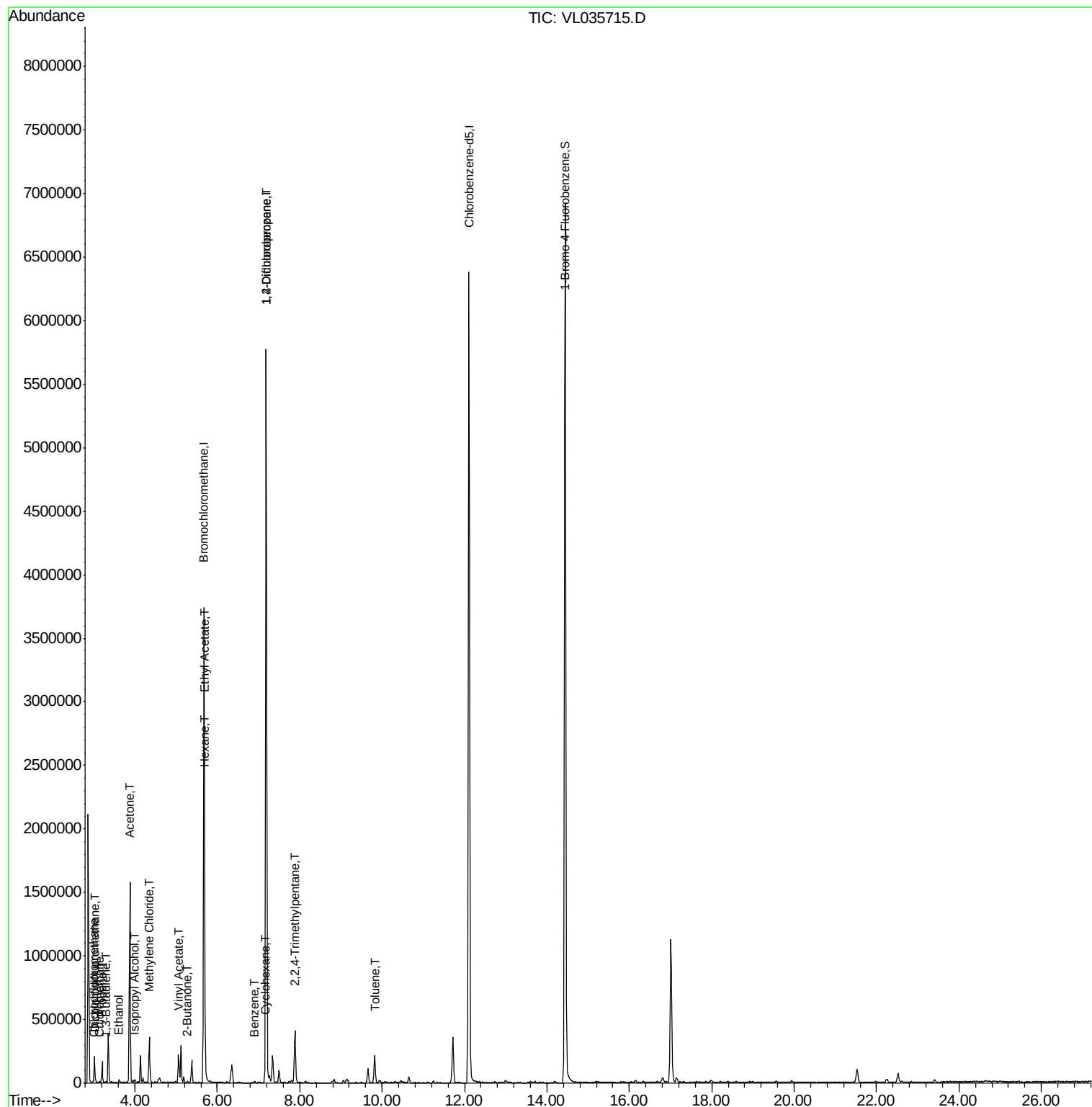
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	12788	0.061 ppbv	99
3) Chlorodifluoromethane	2.99	51	9441	0.069 ppbv #	89
4) Chloromethane	3.14	50	5521	0.075 ppbv	94
9) Propene	3.20	41	40967	0.825 ppbv	100
13) Ethanol	3.62	45	21256	1.736 ppbv	97
15) Acetone	3.87	43	612554	4.479 ppbv #	66
16) 1,3-Butadiene	3.30	39	1835	0.037 ppbv #	70
19) Isopropyl Alcohol	3.99	45	20563	0.276 ppbv #	89
20) Methylene Chloride	4.35	84	154841	1.541 ppbv	98
23) Vinyl Acetate	5.06	43	89227	0.533 ppbv #	12
25) Ethyl Acetate	5.69	43	44602	0.181 ppbv #	76
26) Hexane	5.70	57	67668	0.502 ppbv #	50
30) Cyclohexane	7.15	84	4732	0.036 ppbv #	13
34) 2-Butanone	5.27	43	13138	0.085 ppbv	99
36) Benzene	6.90	78	9830	0.032 ppbv #	91
39) 1,2-Dichloropropane	7.19	63	935778	8.507 ppbv #	30
44) 2,2,4-Trimethylpentane	7.89	57	355689	0.817 ppbv	95
53) Toluene	9.82	91	37443	0.105 ppbv	96

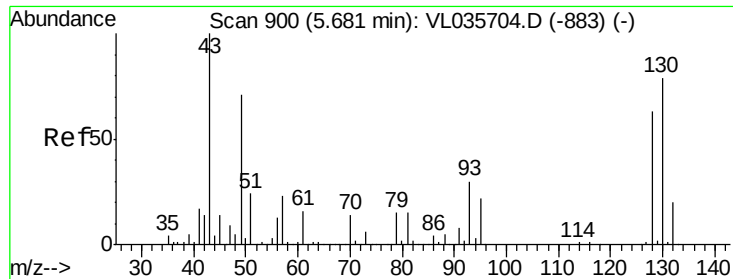
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
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QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

B-1DL

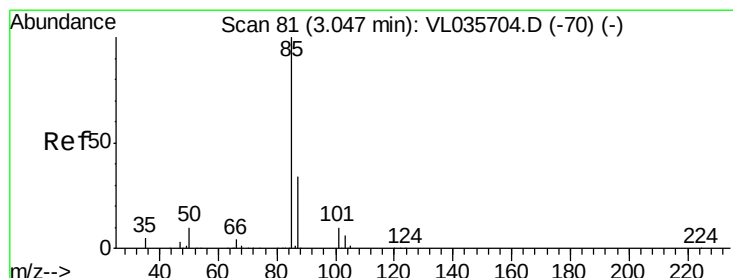
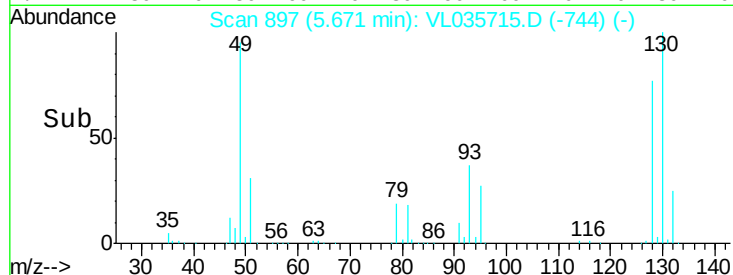
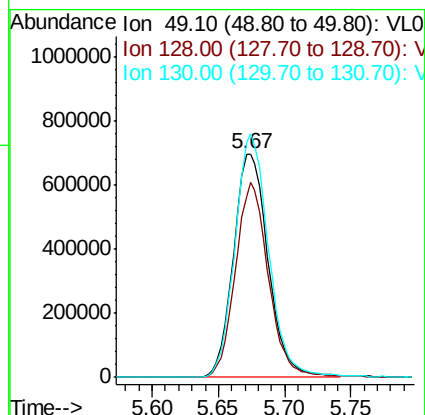
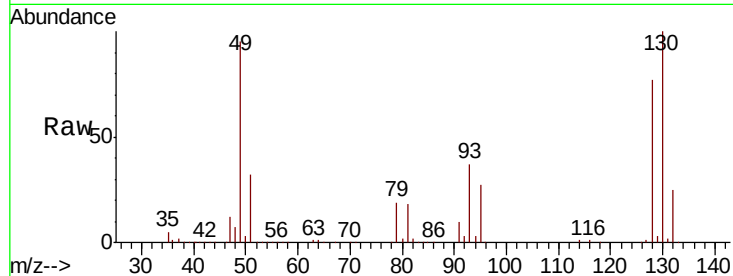
Tot Ion: 49 Resp: 1271072

Ion Ratio Lower Upper

49 100

128 83.7 43.1 129.4

130 106.7 54.9 164.7



#2

Dichlorodifluoromethane

Concen: 0.061 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035715.D

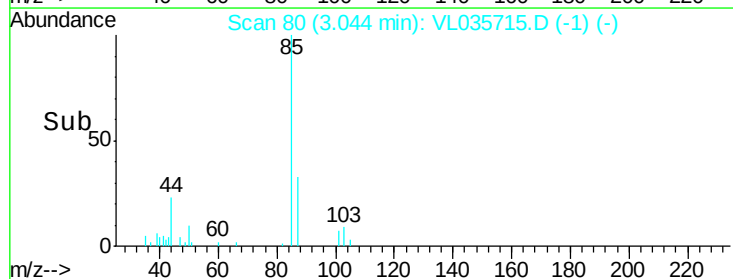
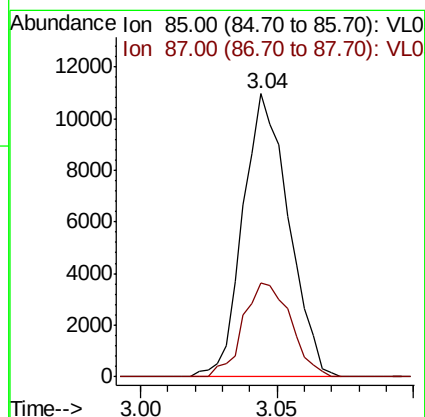
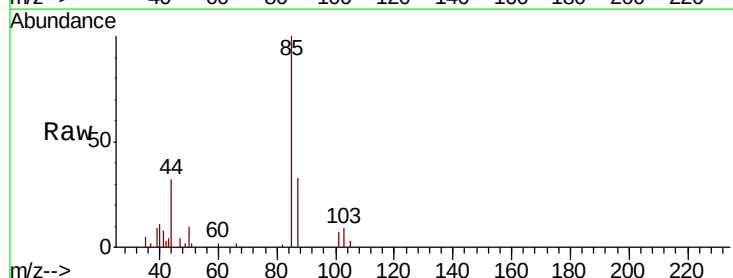
Acq: 23 Sep 2020 12:23

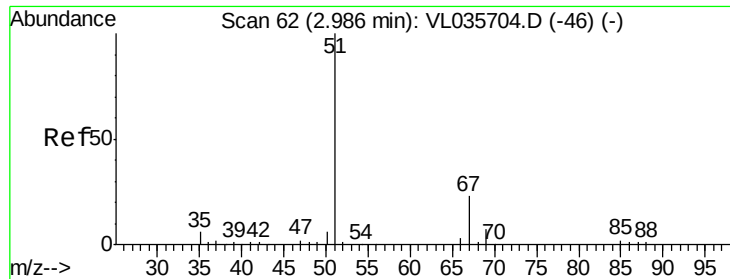
Tgt Ion: 85 Resp: 12788

Ion Ratio Lower Upper

85 100

87 33.3 27.3 40.9





#3

Chlorodifluoromethane

Concen: 0.069 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

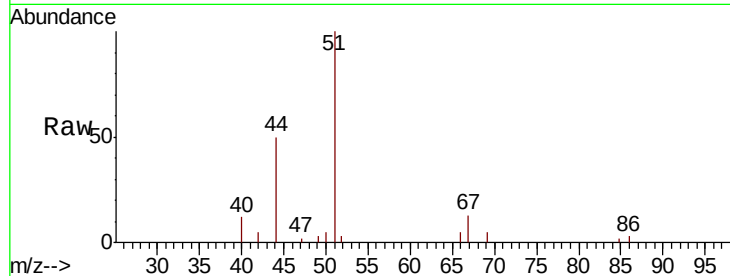
B-1DL

Tot Ion: 51 Resp: 9441

Ion Ratio Lower Upper

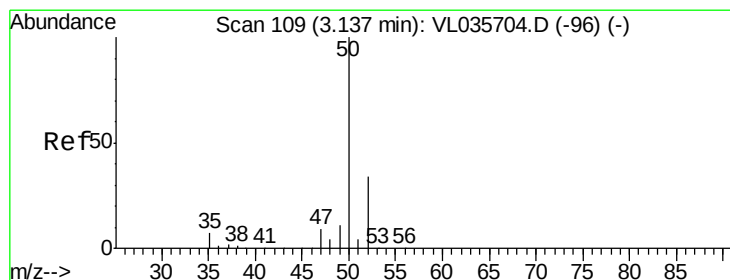
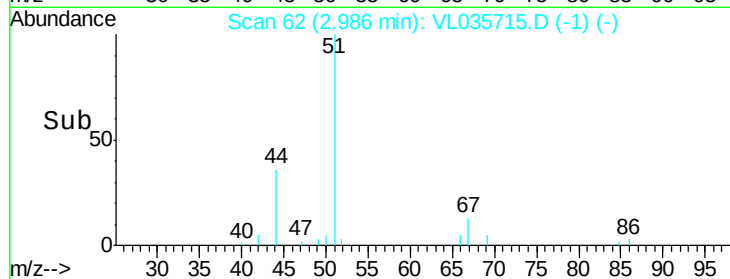
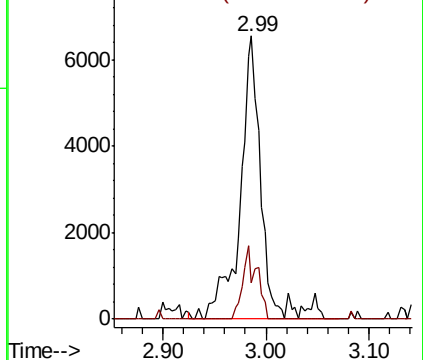
51 100

67 17.2 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.075 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL035715.D

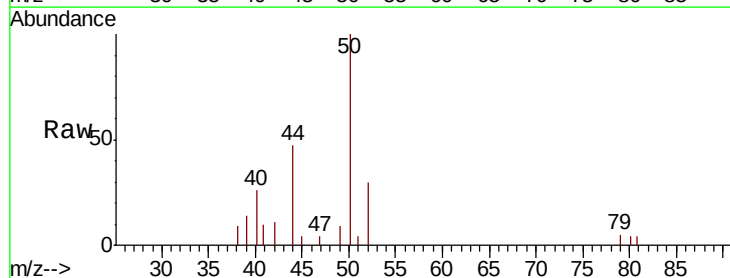
Acq: 23 Sep 2020 12:23

Tgt Ion: 50 Resp: 5521

Ion Ratio Lower Upper

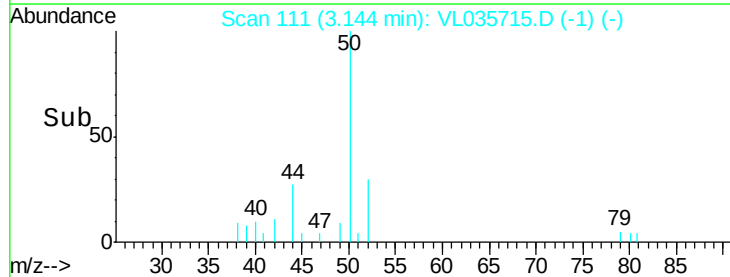
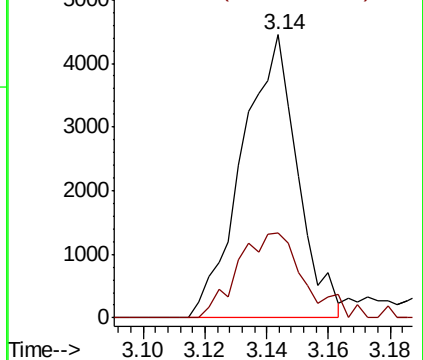
50 100

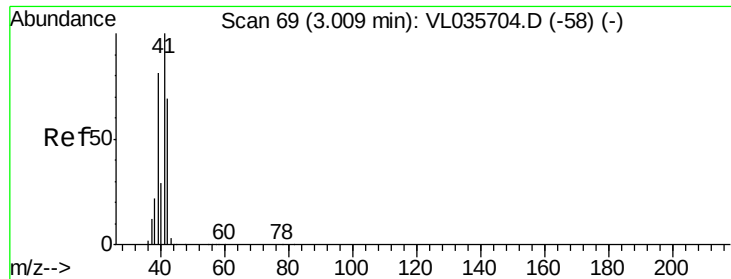
52 30.2 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.825 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.20 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

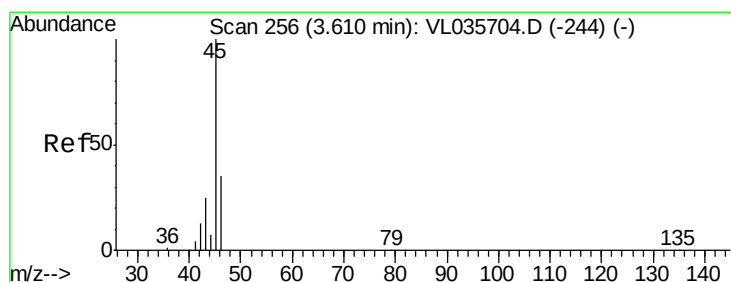
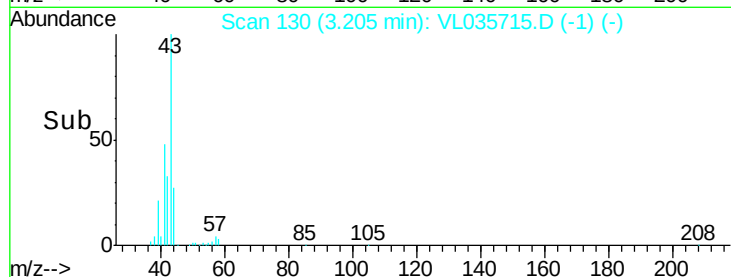
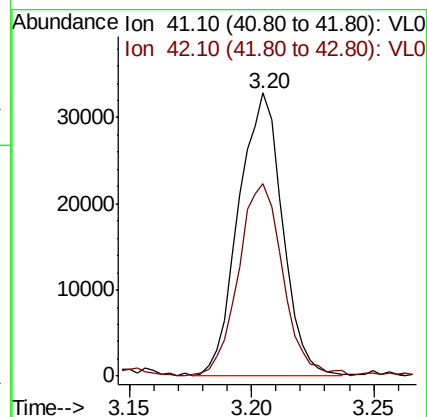
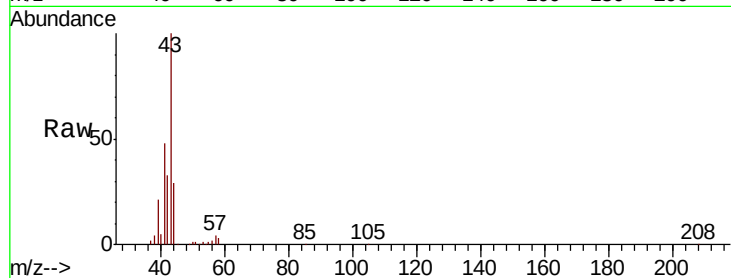
B-1DL

Tot Ion: 41 Resp: 40967

Ion Ratio Lower Upper

41 100

42 70.1 56.2 84.4



#13

Ethanol

Concen: 1.736 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL035715.D

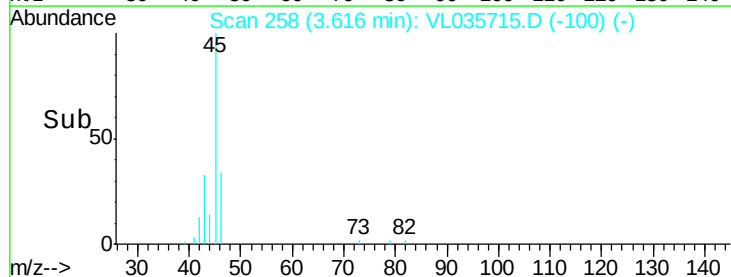
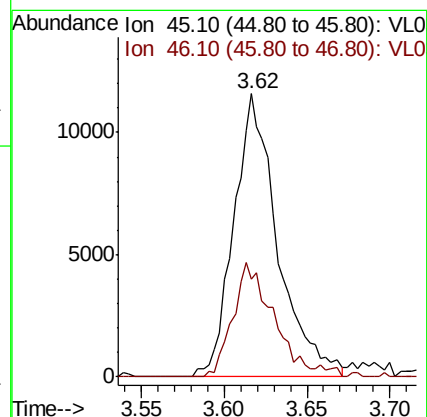
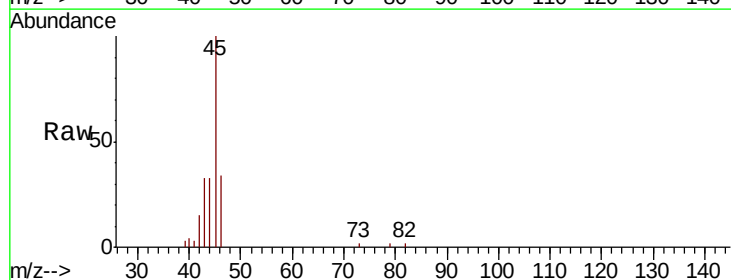
Acq: 23 Sep 2020 12:23

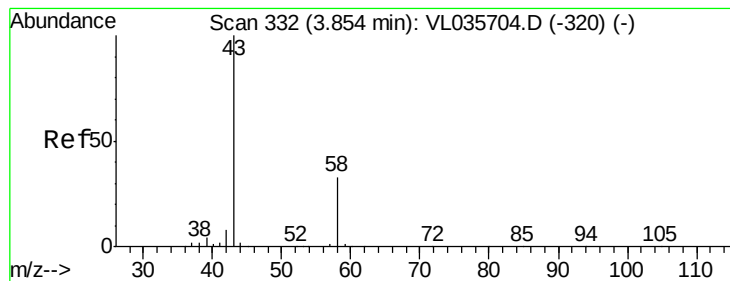
Tgt Ion: 45 Resp: 21256

Ion Ratio Lower Upper

45 100

46 38.7 14.7 58.7





#15

Acetone

Concen: 4.479 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.02 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

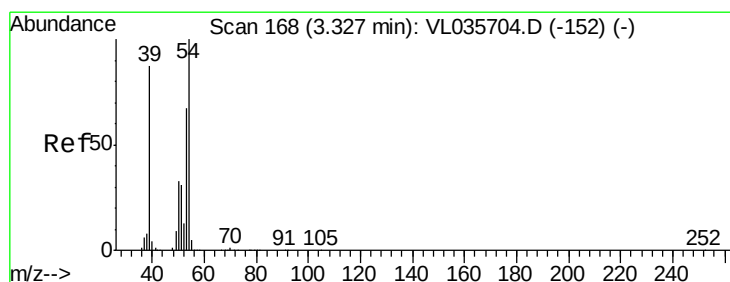
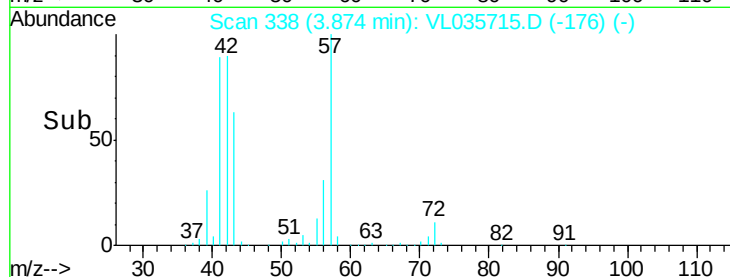
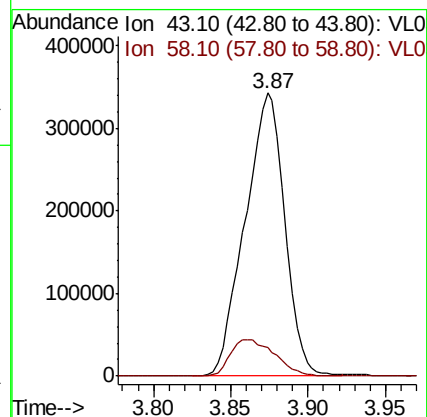
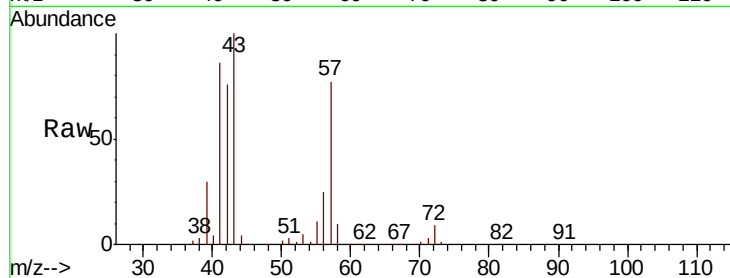
B-1DL

Tot Ion: 43 Resp: 612554

Ion Ratio Lower Upper

43 100

58 14.8 27.3 40.9#



#16

1,3-Butadiene

Concen: 0.037 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL035715.D

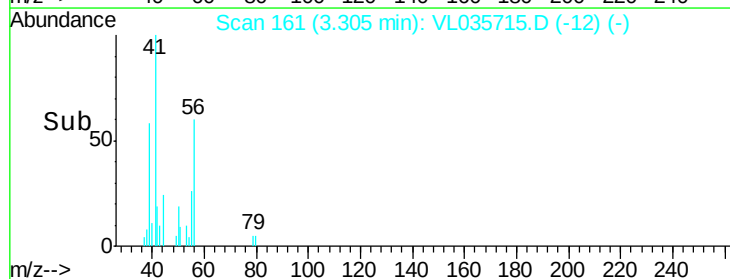
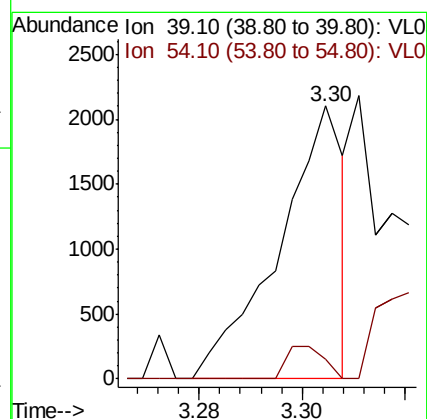
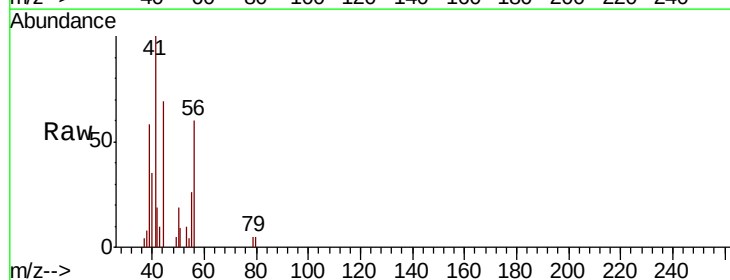
Acq: 23 Sep 2020 12:23

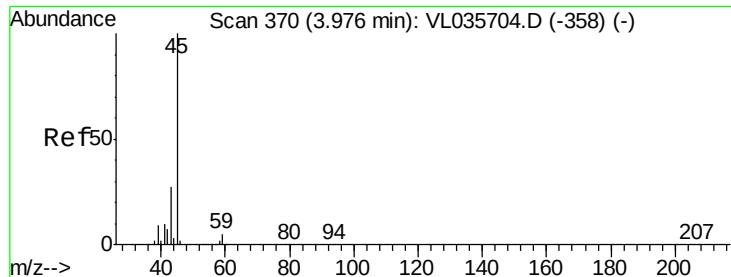
Tgt Ion: 39 Resp: 1835

Ion Ratio Lower Upper

39 100

54 140.5 87.4 131.0#





#19

Isopropyl Alcohol

Concen: 0.276 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampled :

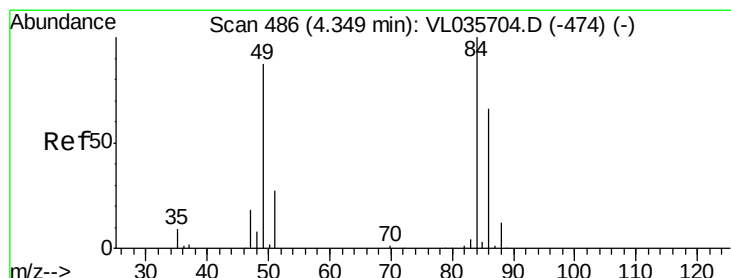
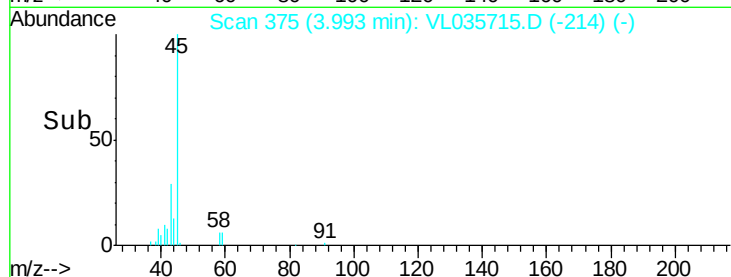
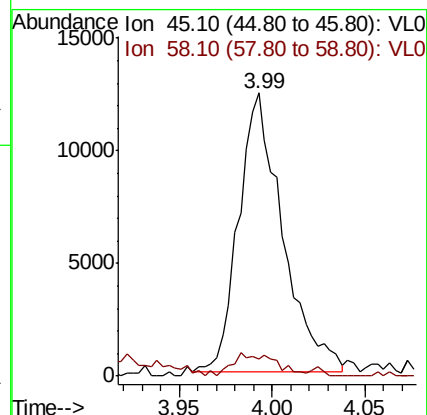
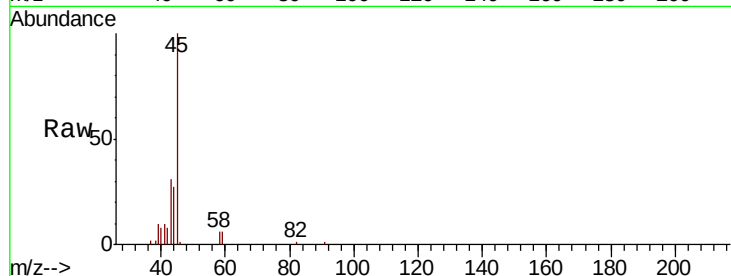
B-1DL

Tot Ion: 45 Resp: 20563

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



#20

Methylene Chloride

Concen: 1.541 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.00 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Tgt Ion: 84 Resp: 154841

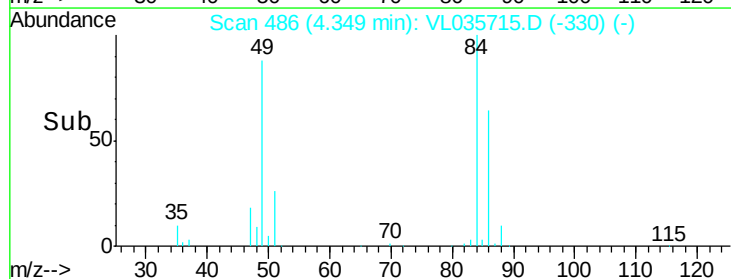
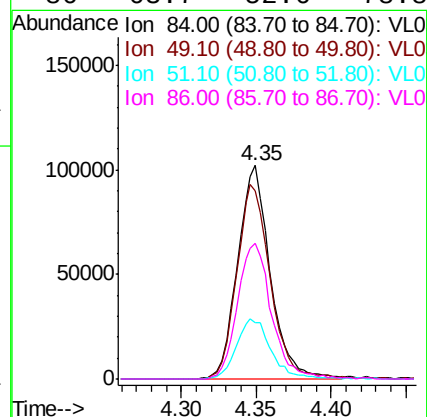
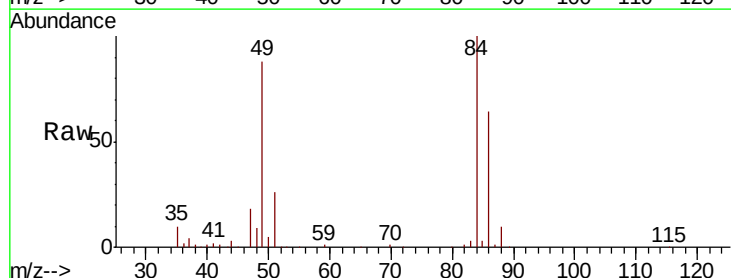
Ion Ratio Lower Upper

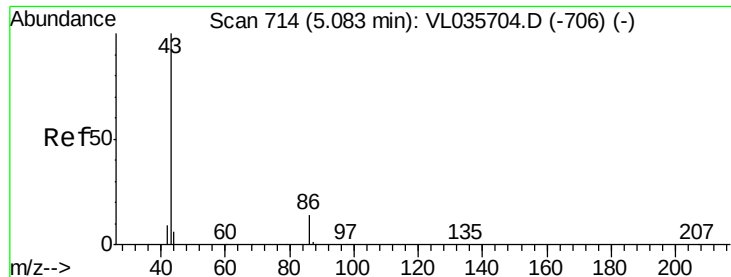
84 100

49 87.8 69.8 104.6

51 26.2 21.8 32.8

86 63.7 52.6 78.8

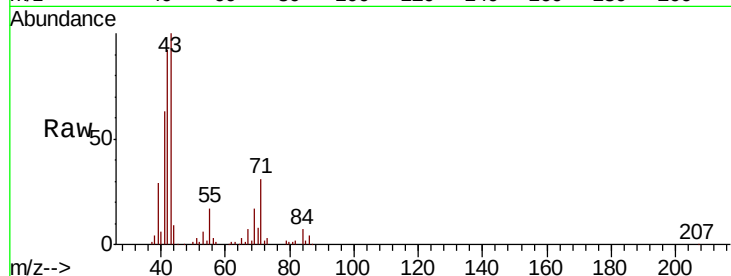




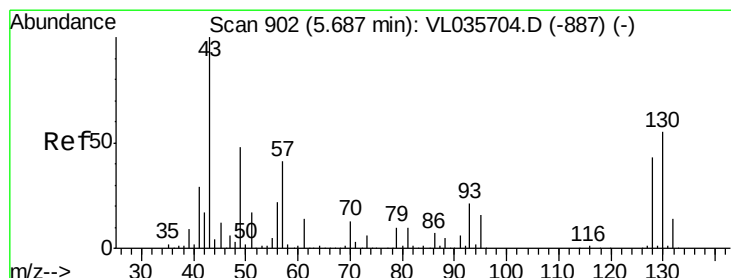
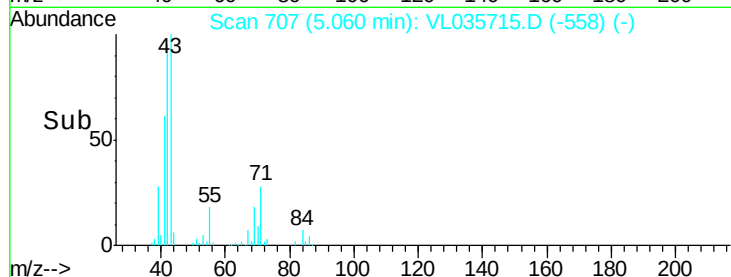
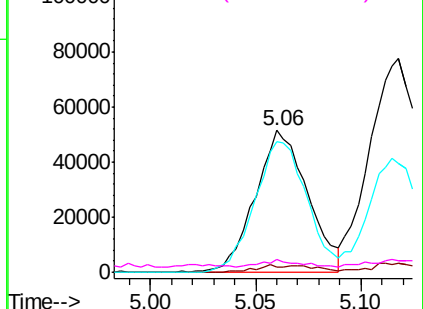
#23
 Vinyl Acetate
 Concen: 0.533 ppbv
 RT: 5.06 min Scan# 707
 Delta R.T. -0.02 min
 Lab File: VL035715.D
 Acq: 23 Sep 2020 12:23

Instrument :
 MSVOA_L
 ClientSampleID :
 B-1DL

Tot Ion:	43	Resp:	89227
Ion	Ratio	Lower	Upper
43	100		
86	4.0	9.7	14.5#
42	92.3	7.9	11.9#
44	5.0	4.8	7.2

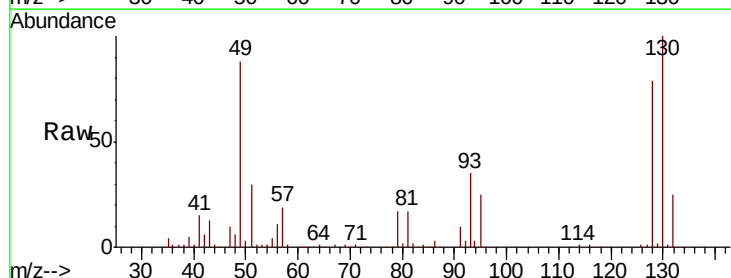


Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 86.10 (85.80 to 86.80): VL0
 Ion 42.10 (41.80 to 42.80): VL0
 Ion 44.10 (43.80 to 44.80): VL0

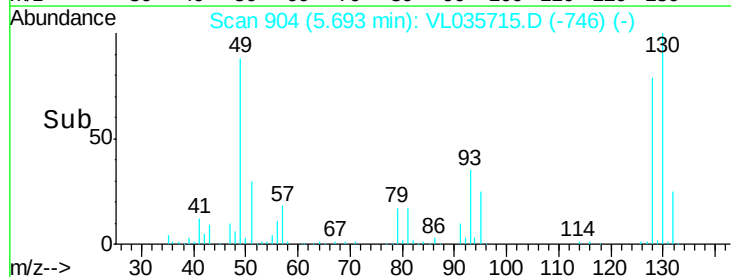
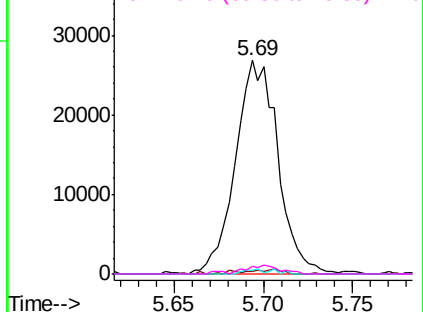


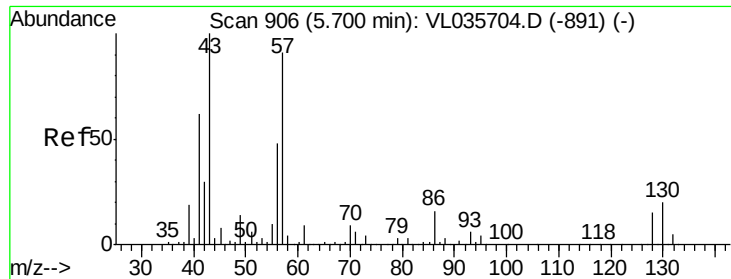
#25
 Ethyl Acetate
 Concen: 0.181 ppbv
 RT: 5.69 min Scan# 904
 Delta R.T. 0.01 min
 Lab File: VL035715.D
 Acq: 23 Sep 2020 12:23

Tgt Ion:	43	Resp:	44602
Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.6	12.8#
61	1.5	10.4	15.6#
70	3.6	8.9	13.3#



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: 0.502 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

B-1DL

Tot Ion: 57 Resp: 67668

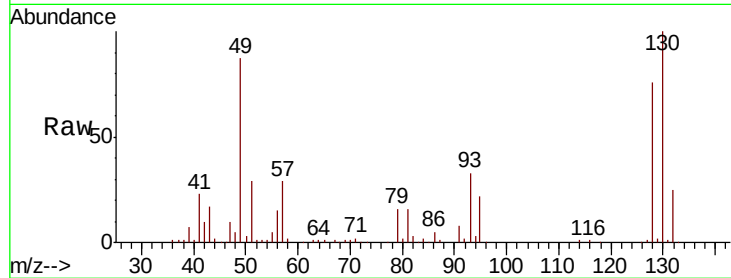
Ion Ratio Lower Upper

57 100

41 80.1 57.9 86.9

43 66.4 143.8 215.6#

56 58.4 43.0 64.6

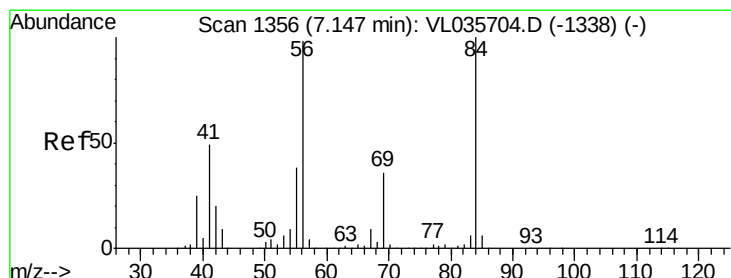
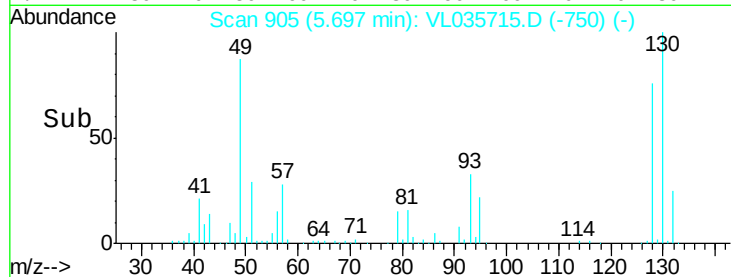
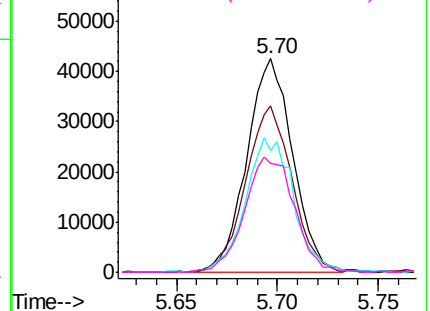


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#30

Cyclohexane

Concen: 0.036 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

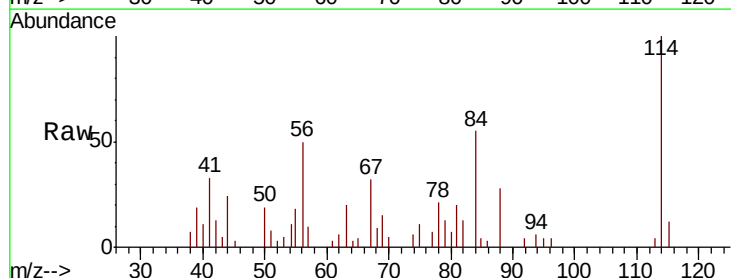
Tgt Ion: 84 Resp: 4732

Ion Ratio Lower Upper

84 100

56 0.0 84.6 127.0#

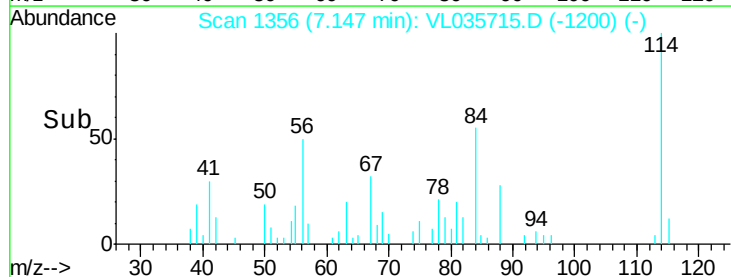
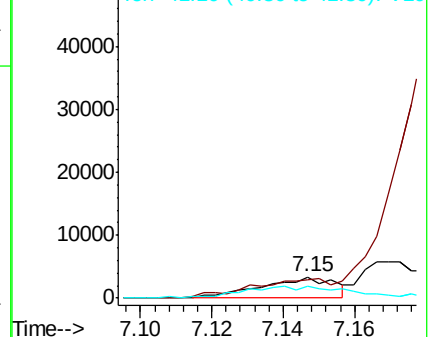
41 89.3 41.1 61.7#

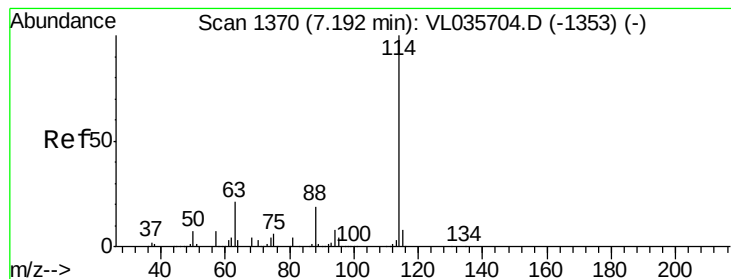


Abundance Ion 84.20 (83.90 to 84.90): VL0

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: 7.19 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

B-1DL

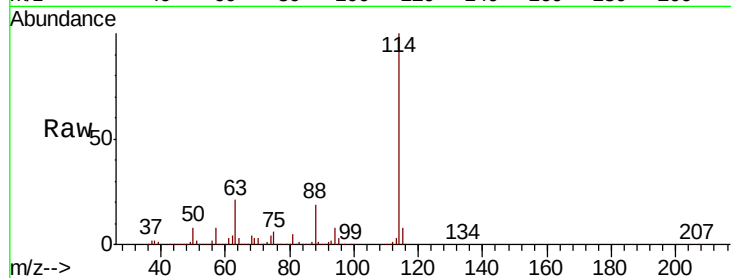
Tot Ion:114 Resp: 4657227

Ion Ratio Lower Upper

114 100

63 20.2 16.1 24.1

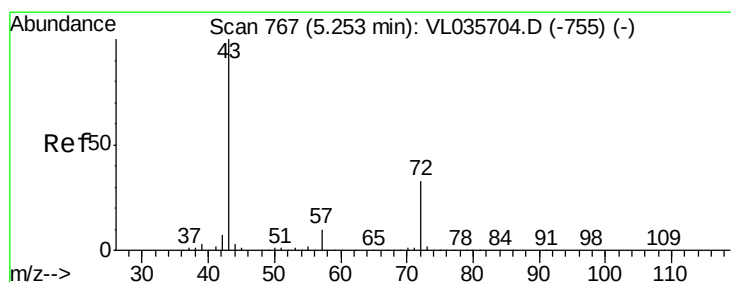
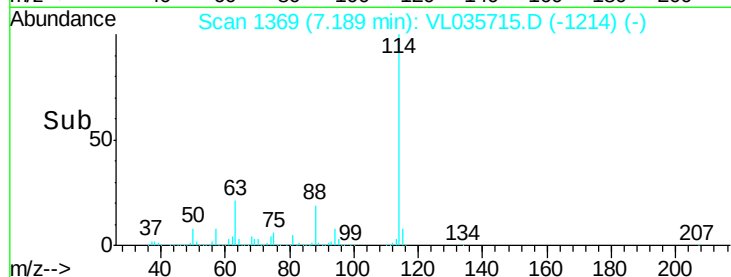
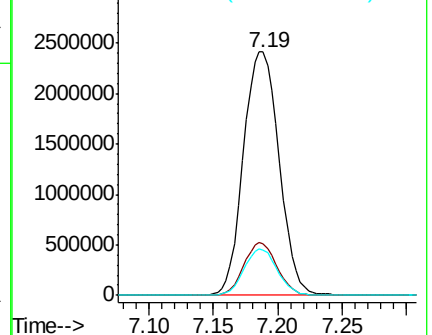
88 17.8 14.1 21.1



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: 0.085 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.02 min

Lab File: VL035715.D

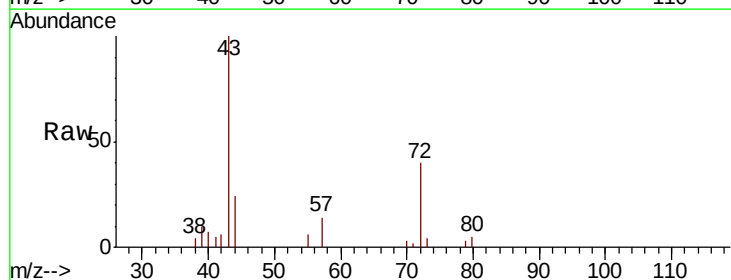
Acq: 23 Sep 2020 12:23

Tgt Ion: 43 Resp: 13138

Ion Ratio Lower Upper

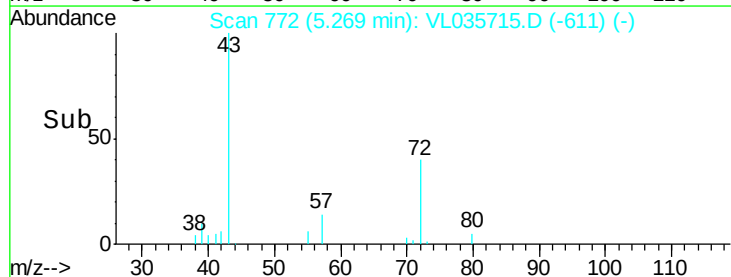
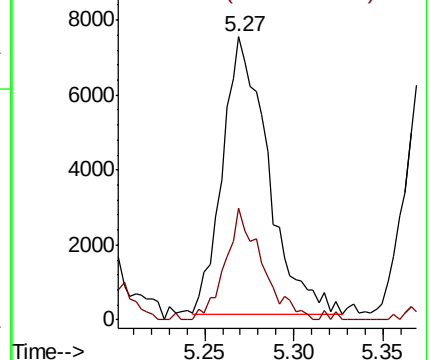
43 100

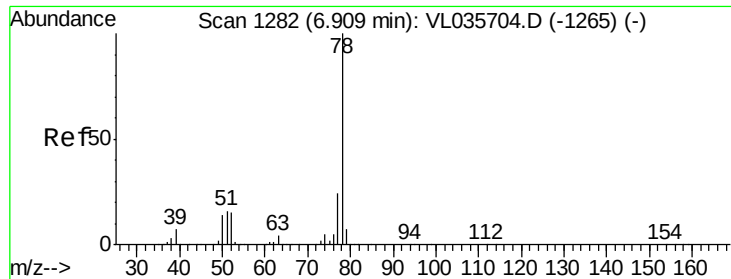
72 33.1 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.032 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

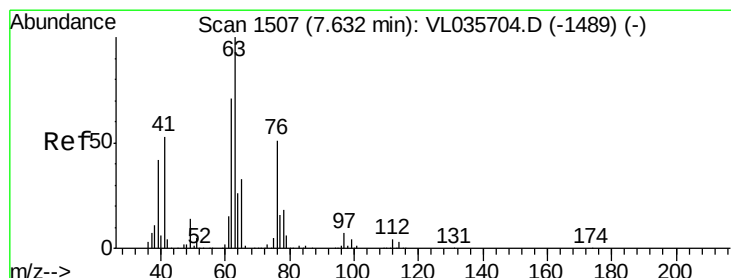
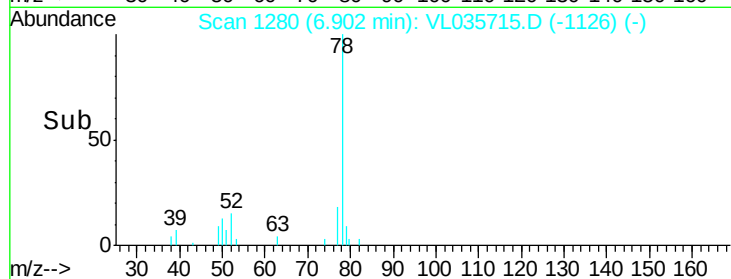
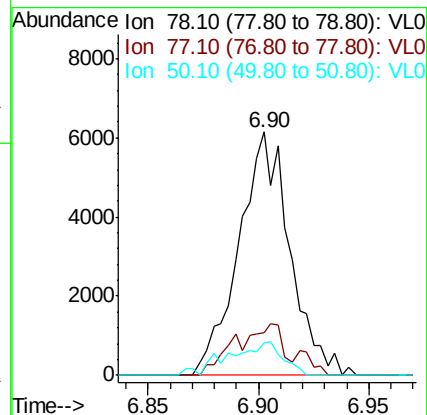
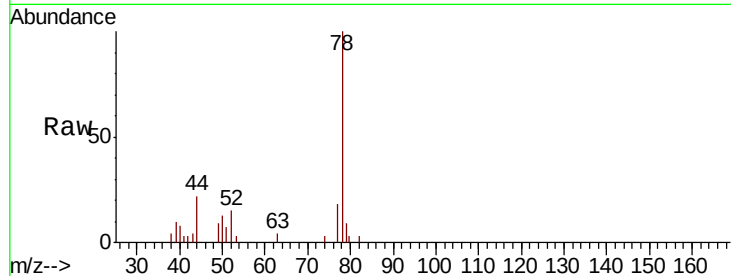
MSVOA_L

ClientSampleId :

B-1DL

Tot Ion: 78 Resp: 9830

Ion	Ratio	Lower	Upper
78	100		
77	17.5	19.3	28.9#
50	13.2	11.6	17.4



#39

1,2-Dichloropropane

Concen: 8.507 ppbv

RT: 7.19 min Scan# 1368

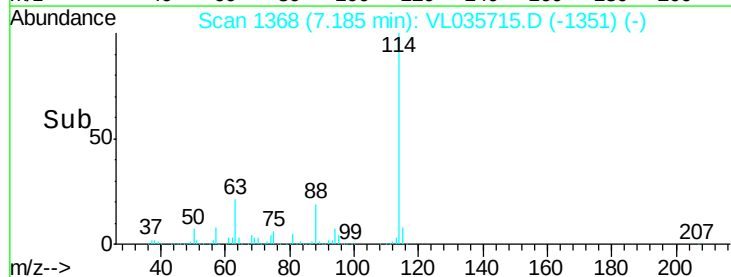
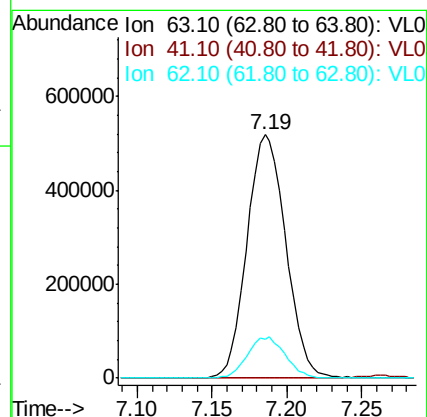
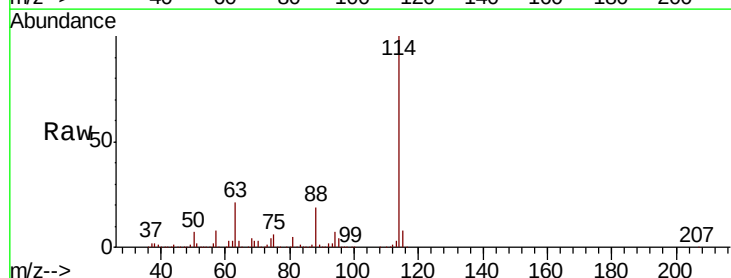
Delta R.T. -0.45 min

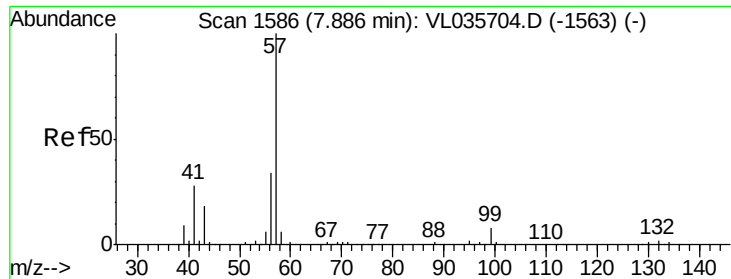
Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Tgt Ion: 63 Resp: 935778

Ion	Ratio	Lower	Upper
63	100		
41	0.0	42.6	63.8#
62	16.1	56.5	84.7#





#44

2,2,4-Trimethylpentane

Concen: 0.817 ppbv

RT: 7.89 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

B-1DL

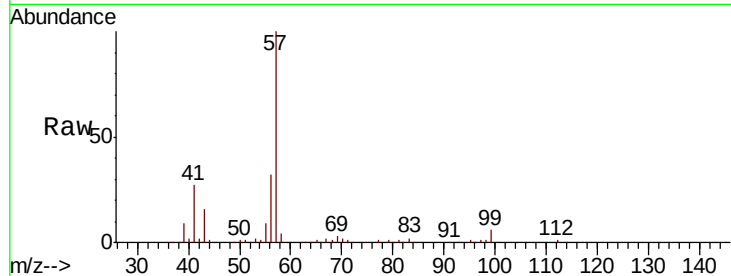
Tot Ion: 57 Resp: 355689

Ion Ratio Lower Upper

57 100

41 29.8 21.2 31.8

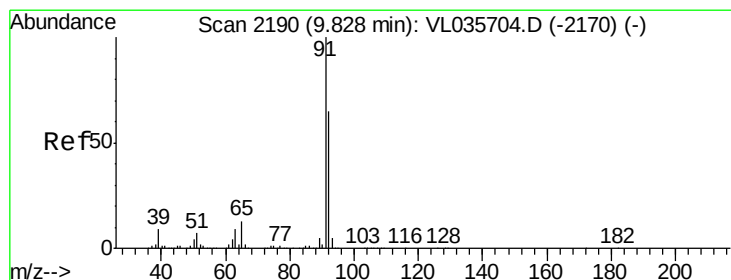
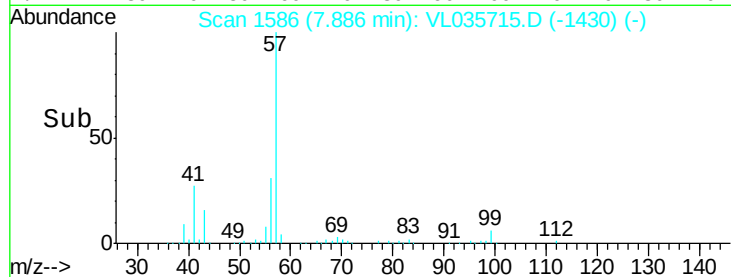
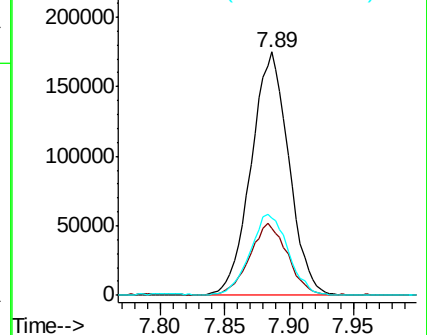
56 34.1 25.8 38.8



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 0.105 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL035715.D

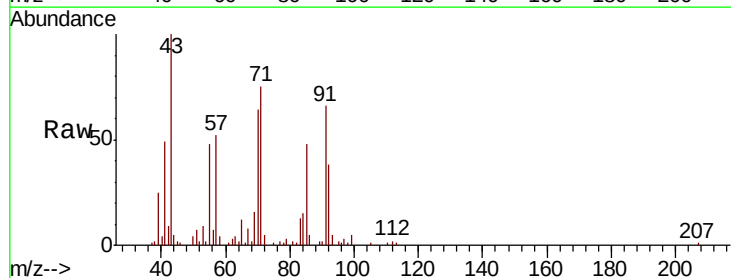
Acq: 23 Sep 2020 12:23

Tgt Ion: 91 Resp: 37443

Ion Ratio Lower Upper

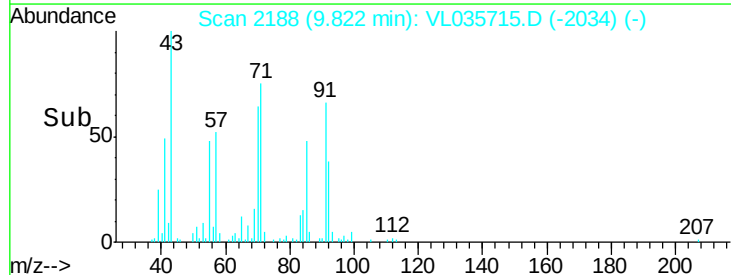
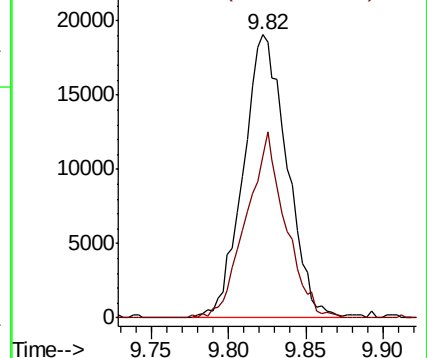
91 100

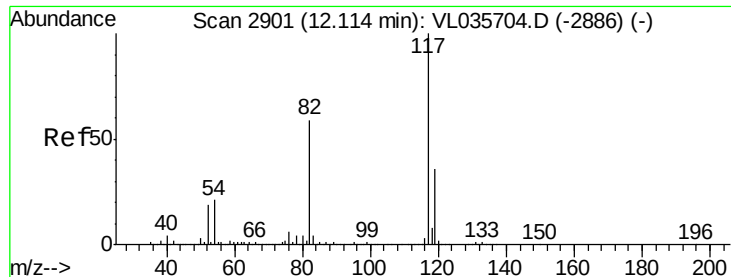
92 59.4 50.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

Instrument :

MSVOA_L

ClientSampleId :

B-1DL

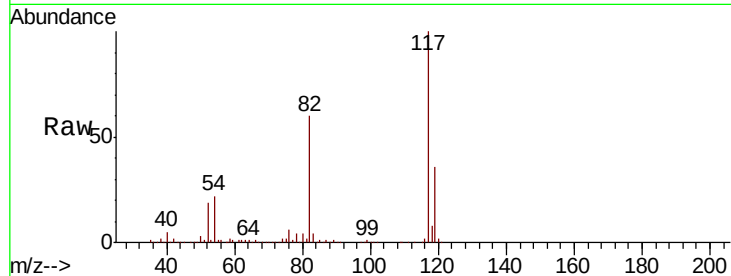
Tot Ion:117 Resp: 4650627

Ion Ratio Lower Upper

117 100

82 58.5 46.1 69.1

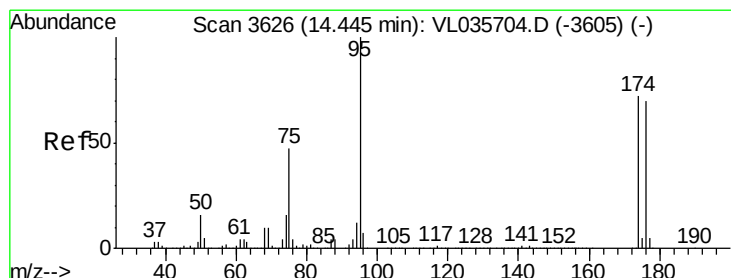
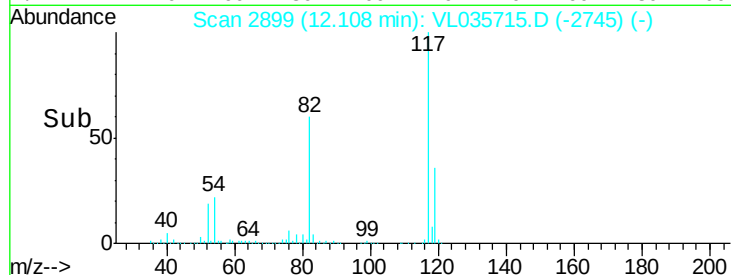
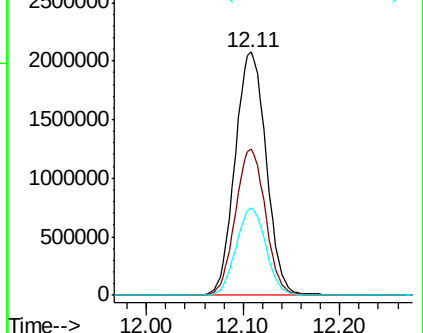
119 34.6 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.074 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL035715.D

Acq: 23 Sep 2020 12:23

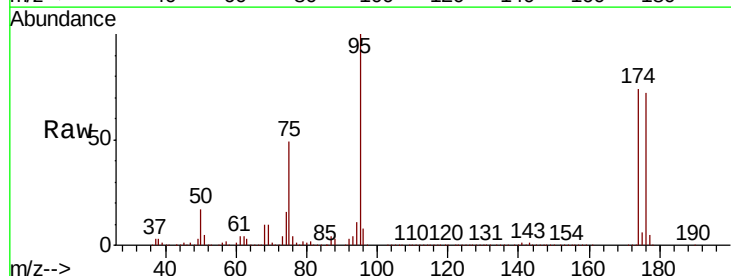
Tgt Ion: 95 Resp: 3510774

Ion Ratio Lower Upper

95 100

174 75.5 59.6 89.4

175 5.5 4.2 6.4



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

