

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121719\
 Data File : VL034504.D
 Acq On : 17 Dec 2019 22:30
 Operator : SY/AP
 Sample : K6319-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA3DL

Quant Time: Dec 18 04:23:48 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	5.67	49	970395	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.19	114	1928303	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1924884	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1615959	9.98	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

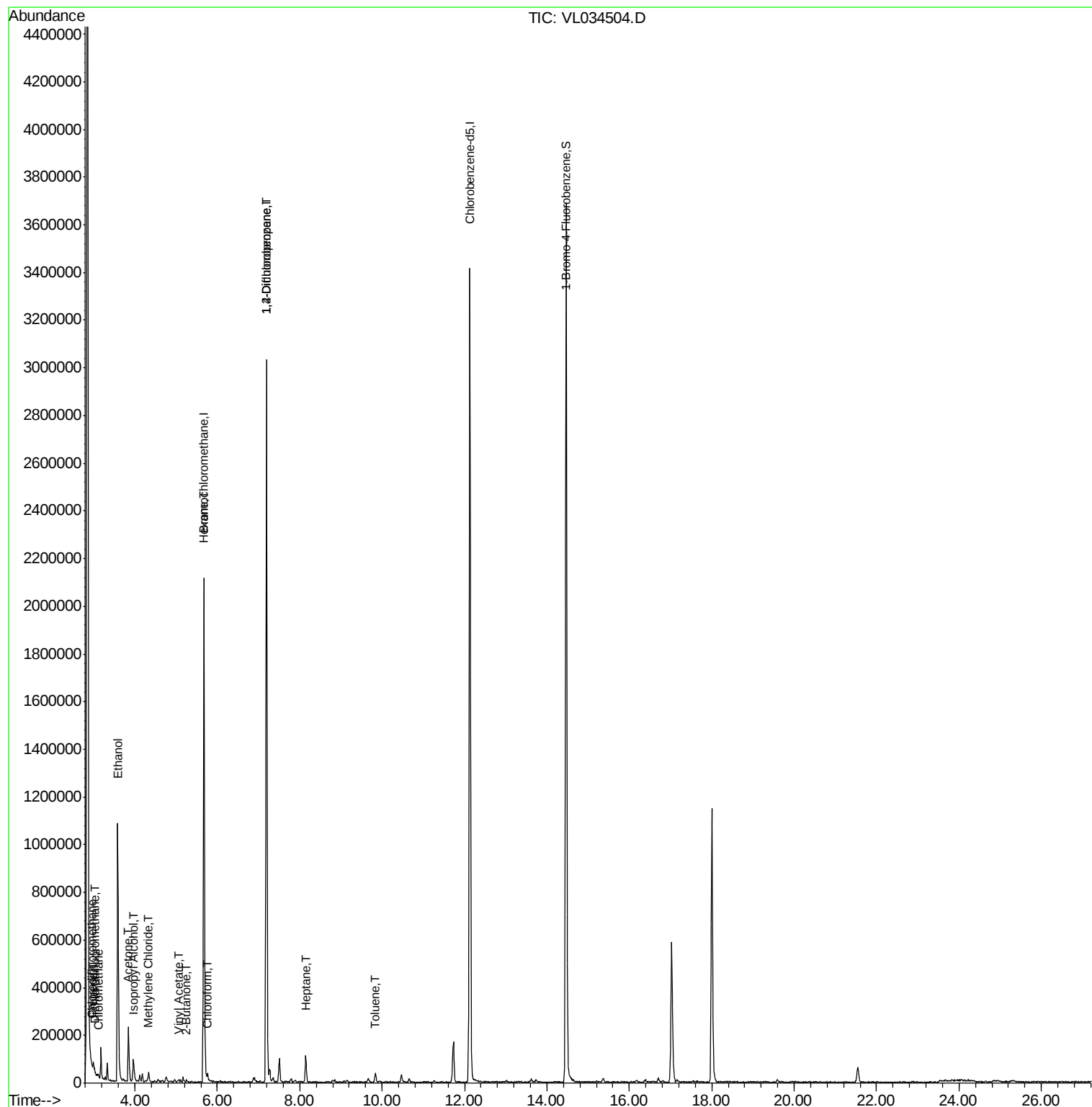
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	10384	0.059	ppbv #	81
3) Chlorodifluoromethane	2.96	51	3891	0.032	ppbv #	80
4) Chloromethane	3.11	50	4426	0.062	ppbv #	58
9) Propene	2.99	41	7343	0.137	ppbv	88
10) Heptane	8.14	43	31064	0.224	ppbv #	27
13) Ethanol	3.58	45	1094746	73.112	ppbv	96
15) Acetone	3.84	43	217902	1.568	ppbv	97
19) Isopropyl Alcohol	3.96	45	65115	0.731	ppbv #	89
20) Methylene Chloride	4.33	84	11471	0.233	ppbv #	87
23) Vinyl Acetate	5.06	43	9006	0.050	ppbv #	97
26) Hexane	5.68	57	4031	0.038	ppbv #	38
29) Chloroform	5.75	83	14363	0.083	ppbv #	65
34) 2-Butanone	5.25	43	4891	0.031	ppbv #	55
39) 1,2-Dichloropropane	7.19	63	578436	7.789	ppbv #	23
53) Toluene	9.84	91	9957	0.045	ppbv #	49

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

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Quant Time: Dec 18 04:23:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA3DL

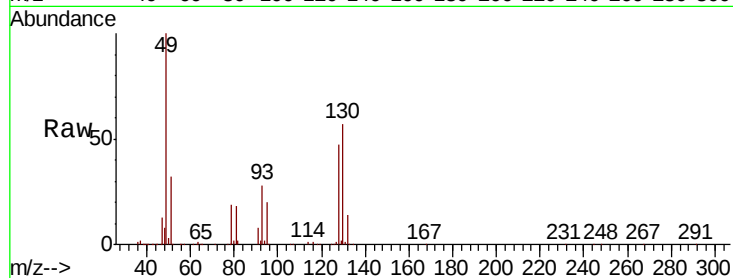
Tgt Ion: 49 Resp: 970395

Ion Ratio Lower Upper

49 100

128 45.4 21.8 65.3

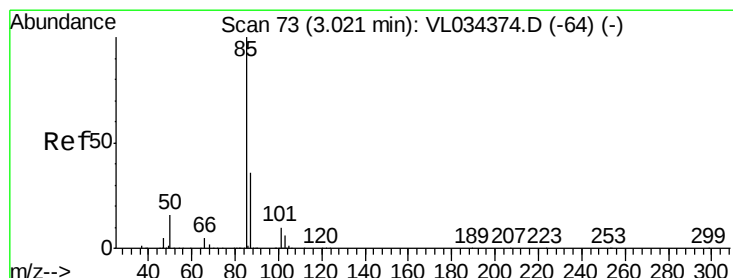
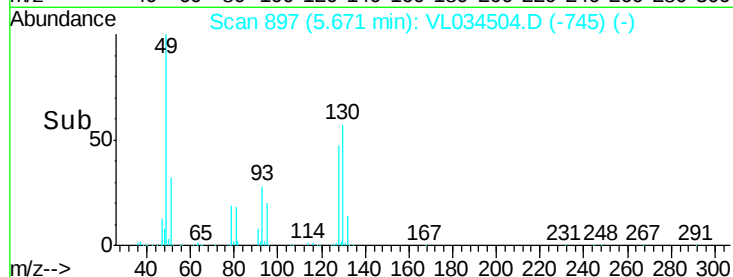
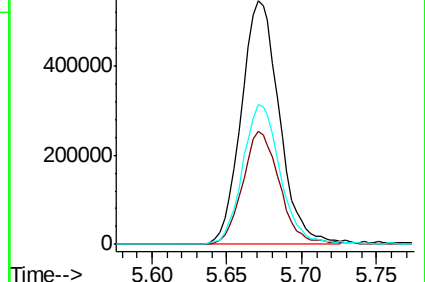
130 56.5 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL034504.D

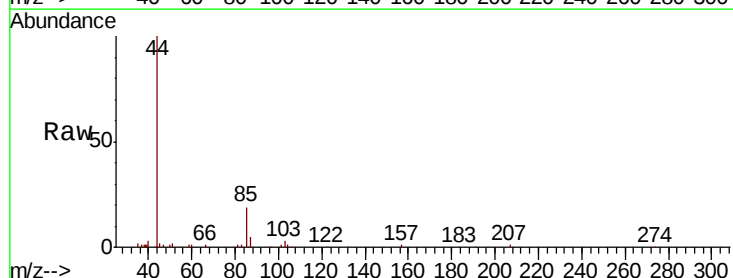
Acq: 17 Dec 2019 22:30

Tgt Ion: 85 Resp: 10384

Ion Ratio Lower Upper

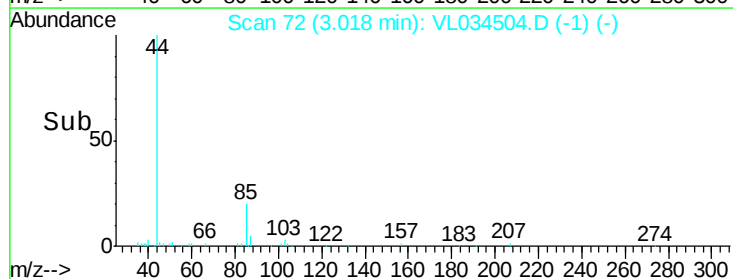
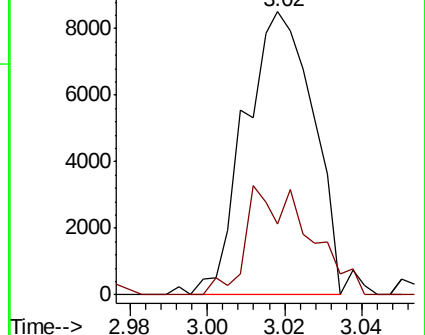
85 100

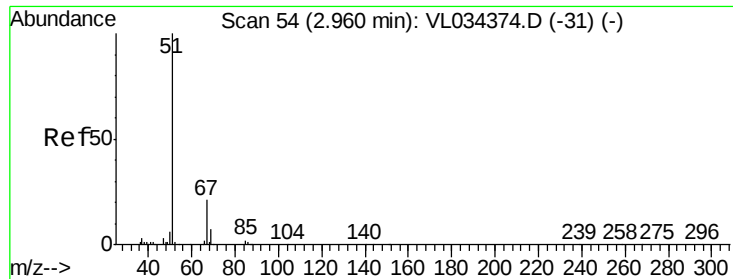
87 24.6 28.5 42.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

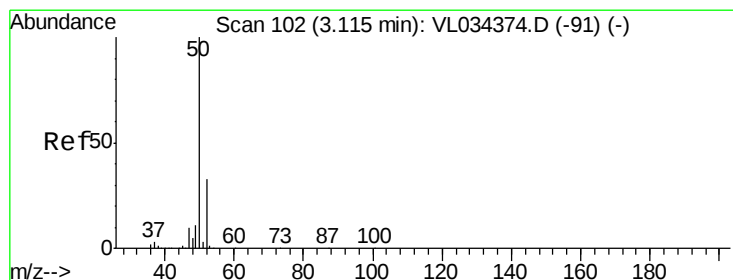
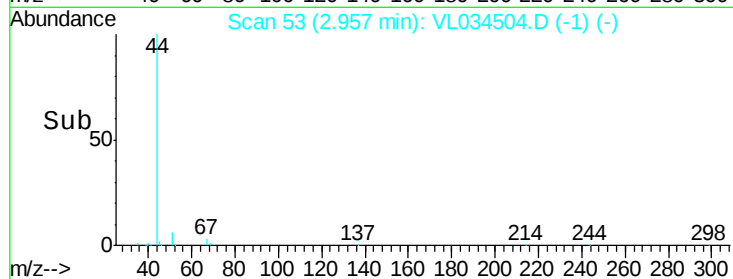
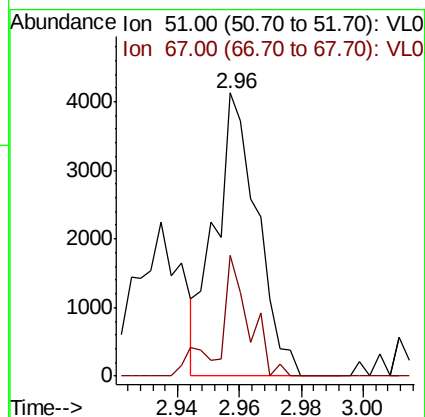
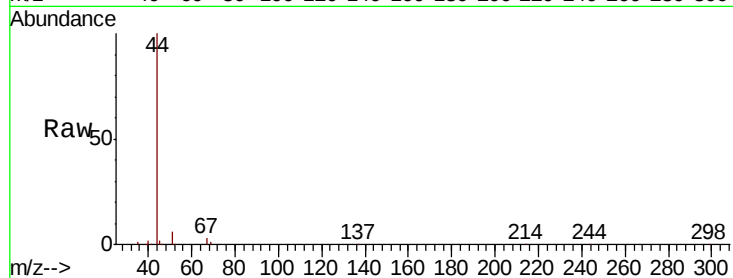




#3
 Chlorodifluoromethane
 Concen: 0.032 ppbv
 RT: 2.96 min Scan# 53
 Delta R.T. -0.00 min
 Lab File: VL034504.D
 Acq: 17 Dec 2019 22:30

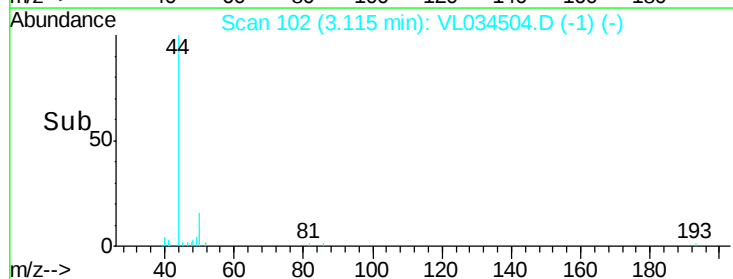
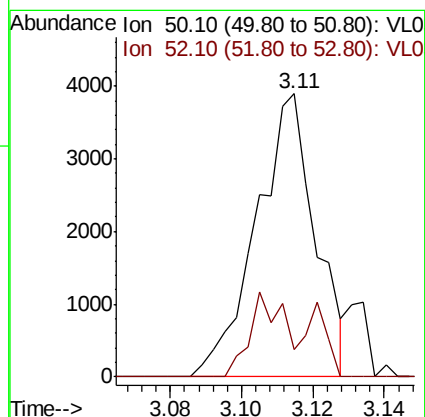
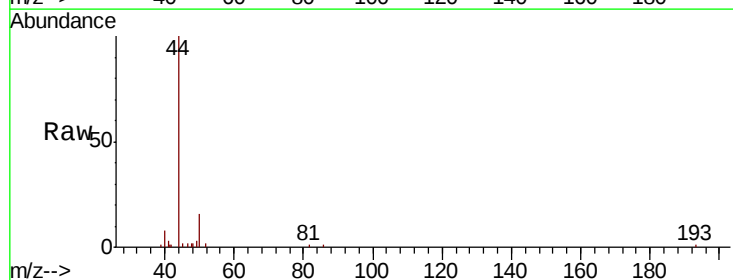
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA3DL

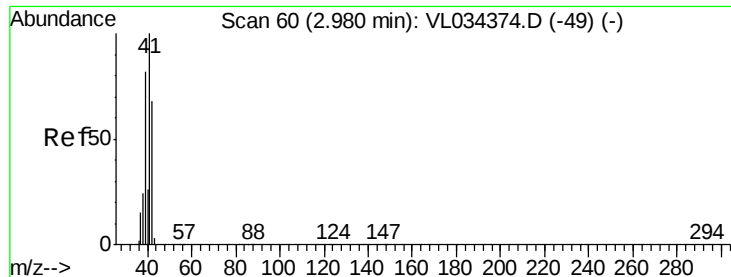
Tgt Ion: 51 Resp: 3891
 Ion Ratio Lower Upper
 51 100
 67 29.6 16.2 24.2#



#4
 Chloromethane
 Concen: 0.062 ppbv
 RT: 3.11 min Scan# 102
 Delta R.T. -0.00 min
 Lab File: VL034504.D
 Acq: 17 Dec 2019 22:30

Tgt Ion: 50 Resp: 4426
 Ion Ratio Lower Upper
 50 100
 52 9.6 26.8 40.2#





#9

Propene

Concen: 0.137 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Instrument :

MSVOA_L

ClientSampleId :

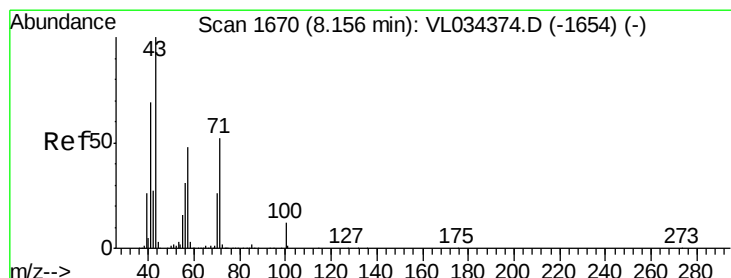
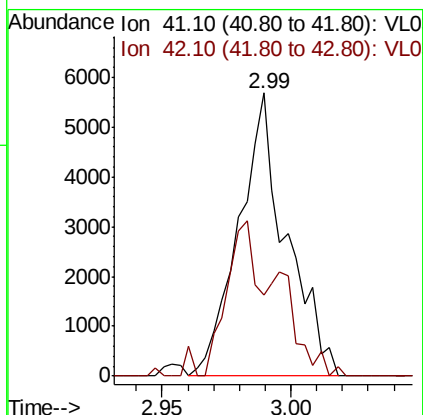
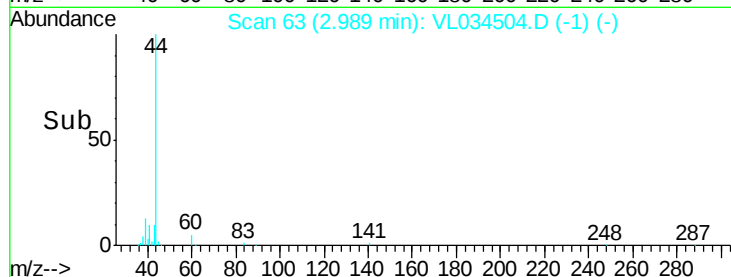
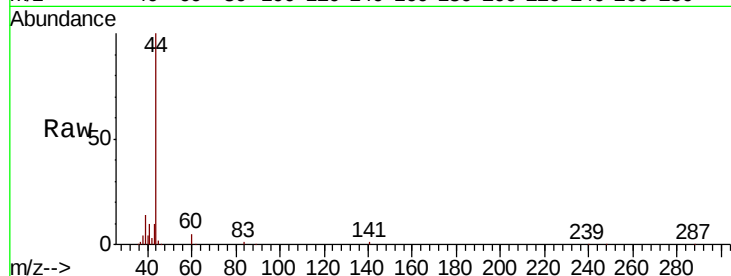
LIHA-IA3DL

Tgt Ion: 41 Resp: 7343

Ion Ratio Lower Upper

41 100

42 58.8 54.6 82.0



#10

Heptane

Concen: 0.224 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. -0.01 min

Lab File: VL034504.D

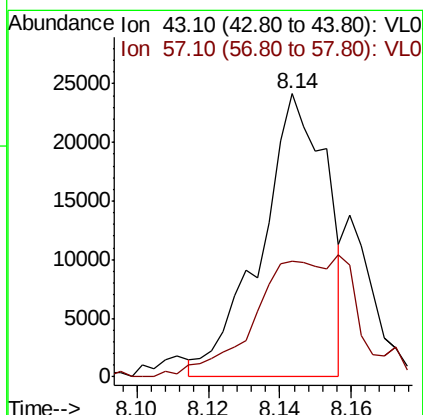
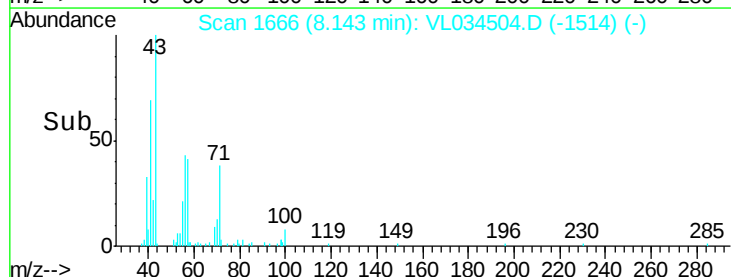
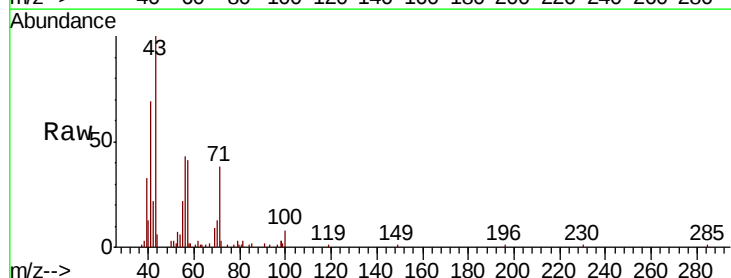
Acq: 17 Dec 2019 22:30

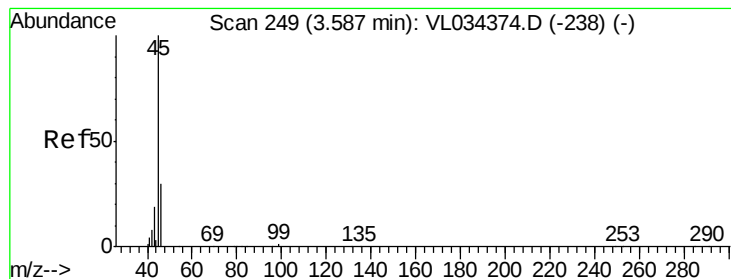
Tgt Ion: 43 Resp: 31064

Ion Ratio Lower Upper

43 100

57 0.0 40.2 60.2#





#13

Ethanol

Concen: 73.112 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Instrument :

MSVOA_L

ClientSampleId :

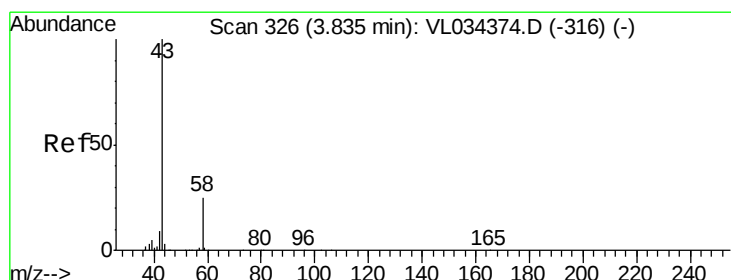
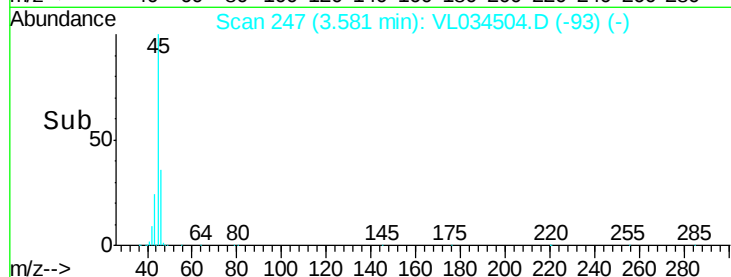
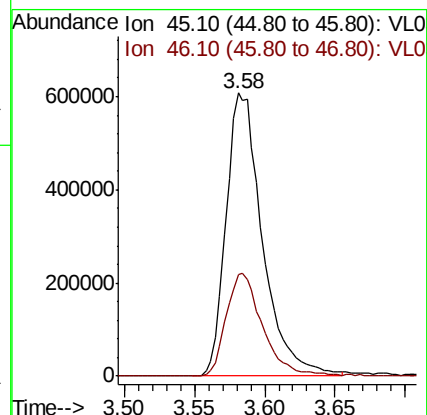
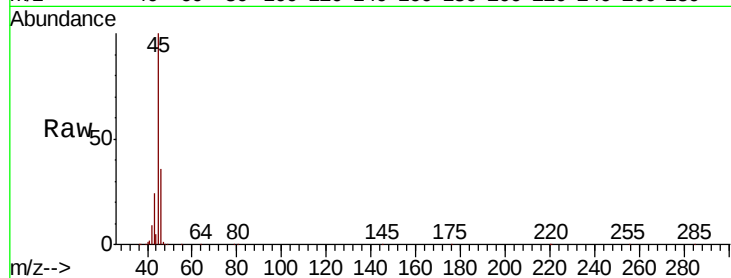
LIHA-IA3DL

Tgt Ion: 45 Resp: 1094746

Ion Ratio Lower Upper

45 100

46 36.6 13.8 55.4



#15

Acetone

Concen: 1.568 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034504.D

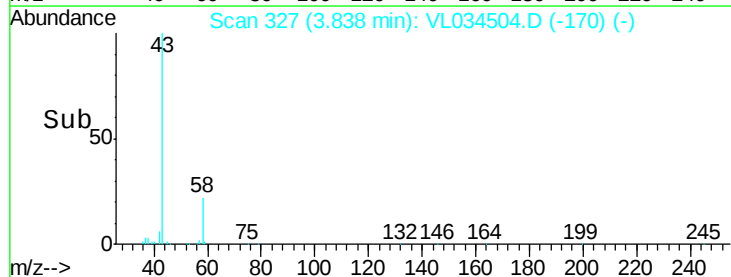
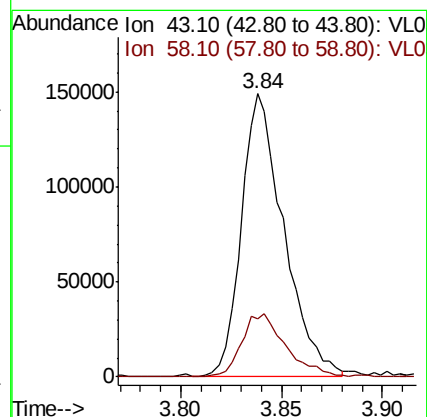
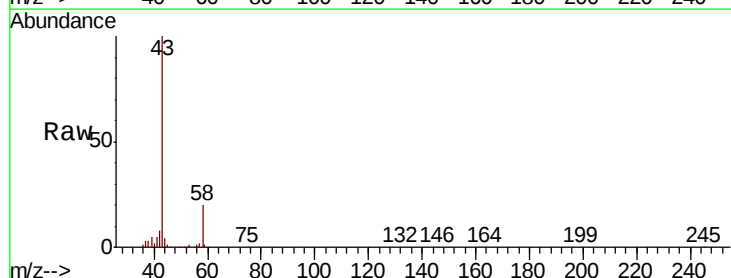
Acq: 17 Dec 2019 22:30

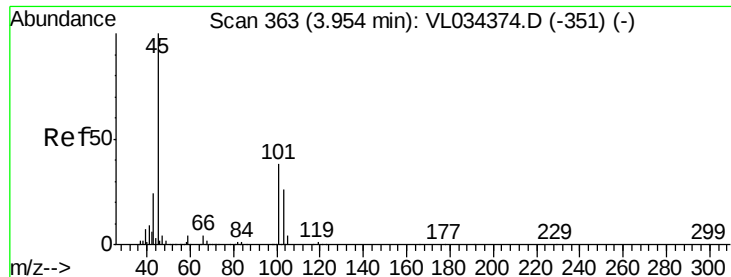
Tgt Ion: 43 Resp: 217902

Ion Ratio Lower Upper

43 100

58 23.7 20.2 30.4





#19

Isopropyl Alcohol

Concen: 0.731 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Instrument :

MSVOA_L

ClientSampleId :

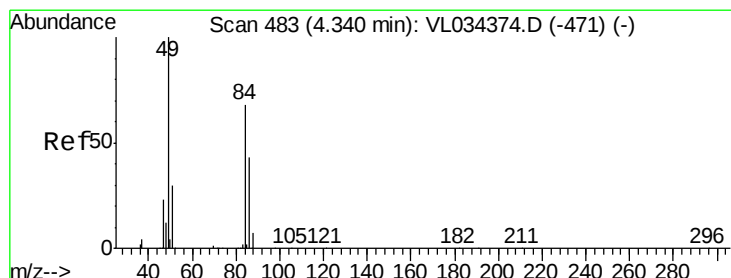
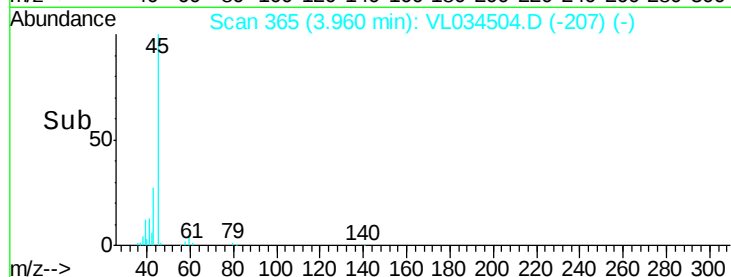
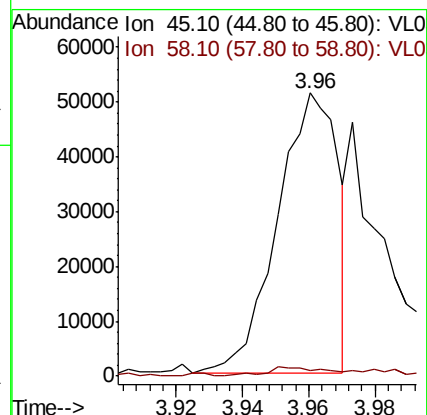
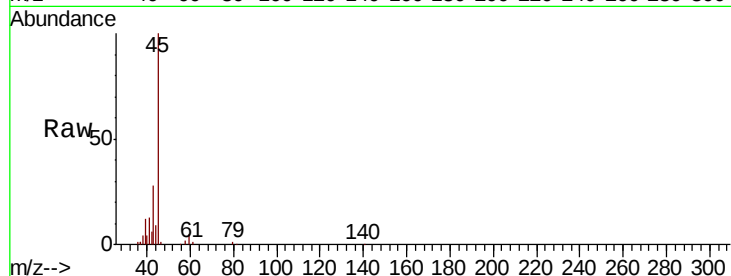
LIHA-IA3DL

Tgt Ion: 45 Resp: 65115

Ion Ratio Lower Upper

45 100

58 5.7 1.3 1.9#



#20

Methylene Chloride

Concen: 0.233 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Tgt Ion: 84 Resp: 11471

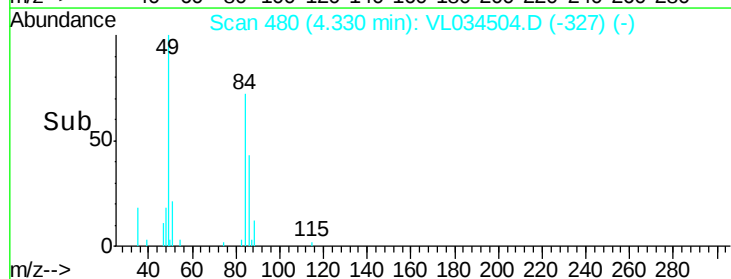
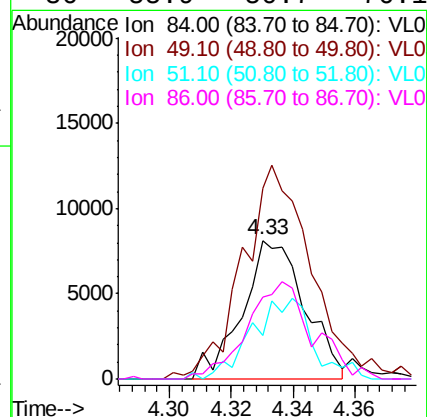
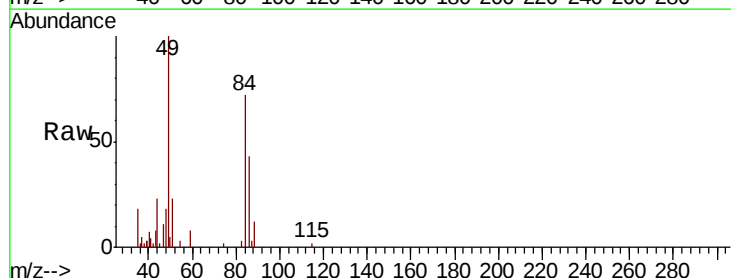
Ion Ratio Lower Upper

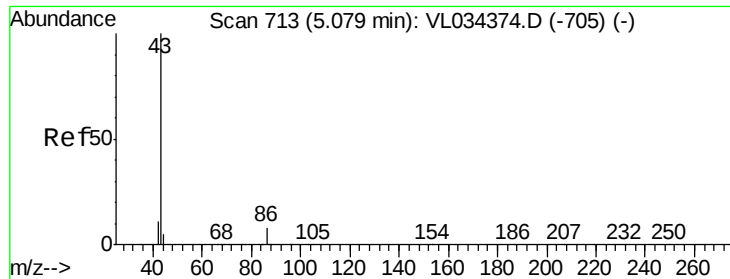
84 100

49 132.3 116.8 175.2

51 27.1 35.6 53.4#

86 55.9 50.7 76.1





#23

Vinyl Acetate

Concen: 0.050 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.02 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA3DL

Tgt Ion: 43 Resp: 9006

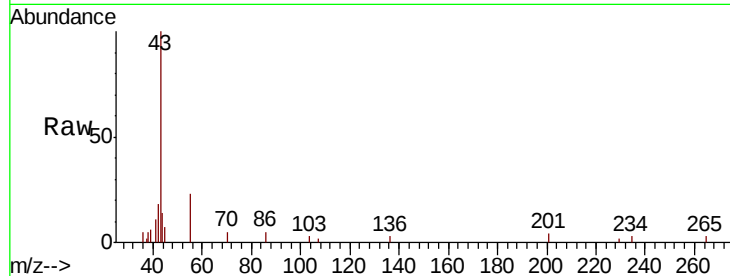
Ion Ratio Lower Upper

43 100

86 5.0 5.8 8.6#

42 11.0 8.9 13.3

44 6.7 4.0 6.0#

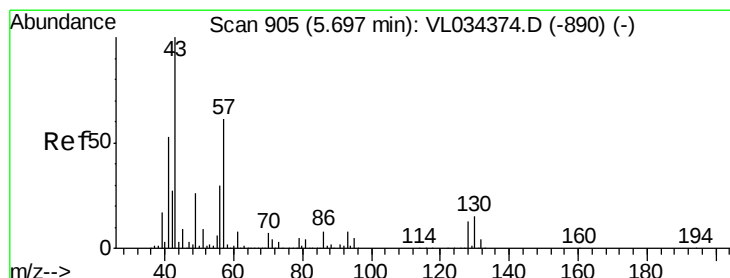
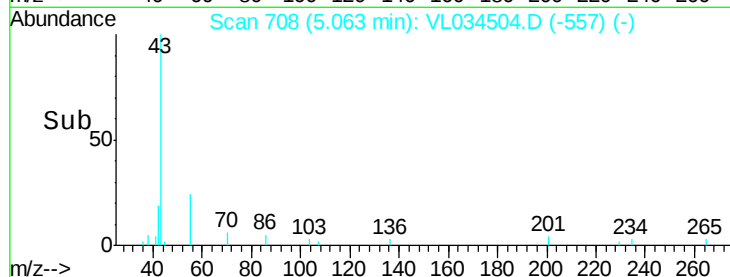
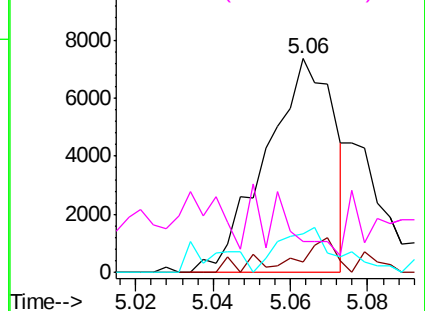


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#26

Hexane

Concen: 0.038 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Tgt Ion: 57 Resp: 4031

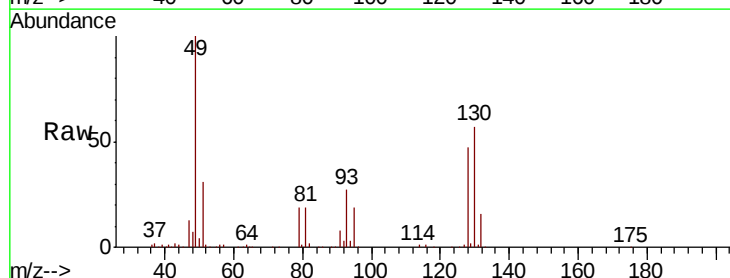
Ion Ratio Lower Upper

57 100

41 184.5 75.0 112.4#

43 318.1 186.6 279.8#

56 90.0 41.5 62.3#

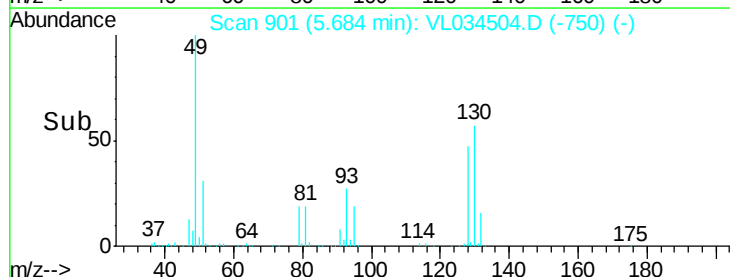
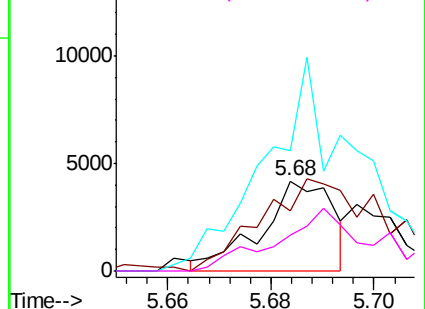


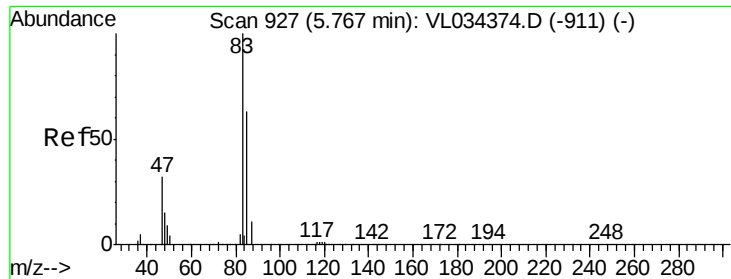
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

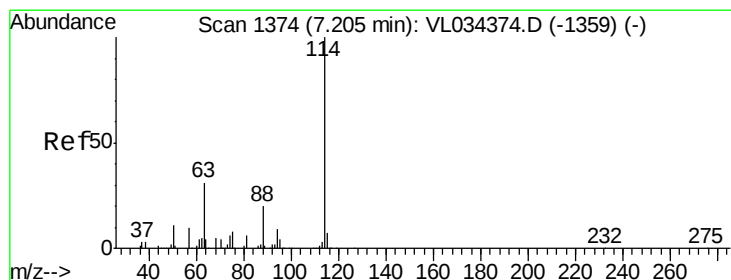
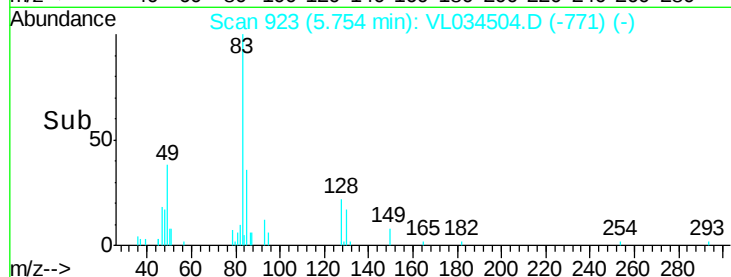
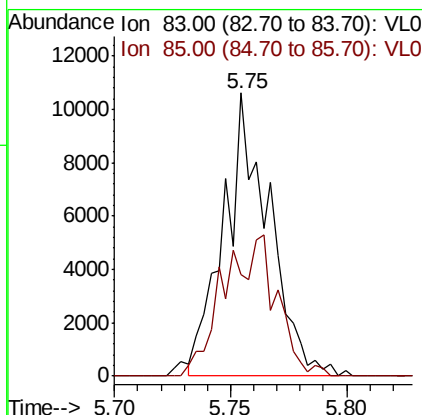
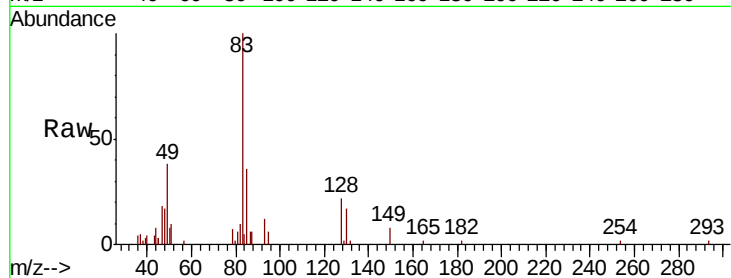




#29
Chloroform
Concen: 0.083 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL034504.D
Acq: 17 Dec 2019 22:30

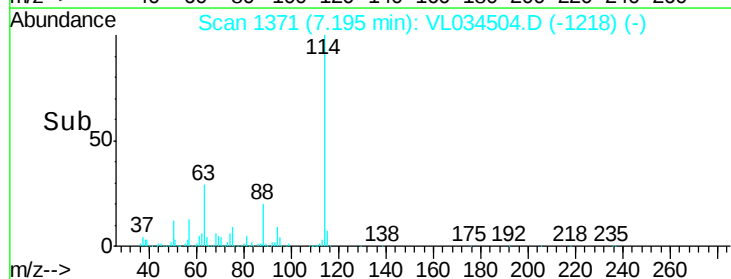
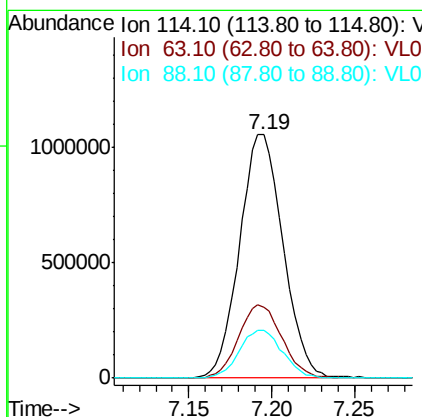
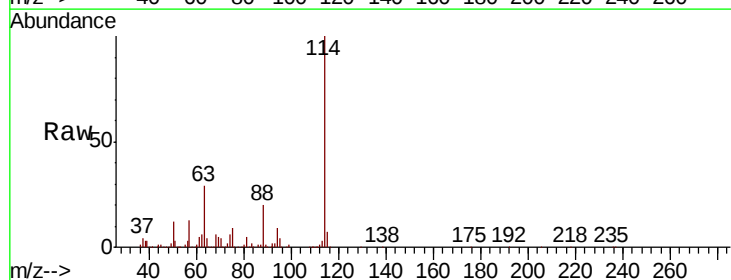
Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA3DL

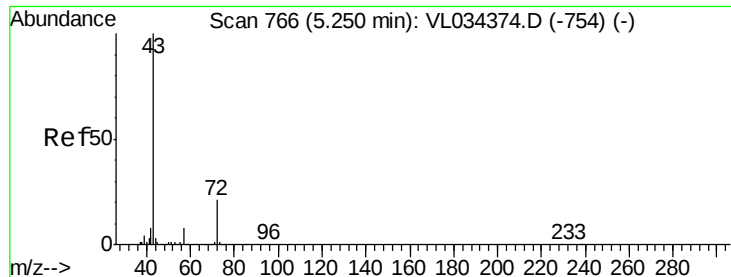
Tgt Ion: 83 Resp: 14363
Ion Ratio Lower Upper
83 100
85 35.9 50.4 75.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.01 min
Lab File: VL034504.D
Acq: 17 Dec 2019 22:30

Tgt Ion: 114 Resp: 1928303
Ion Ratio Lower Upper
114 100
63 30.2 24.2 36.4
88 19.7 15.9 23.9

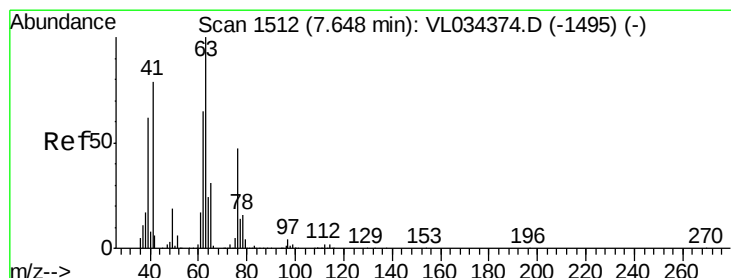
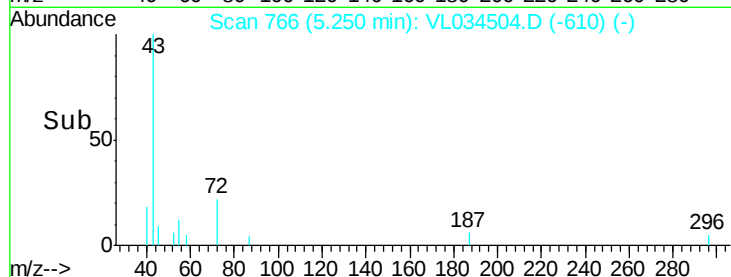
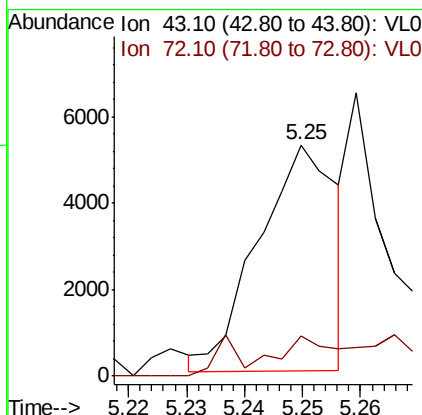
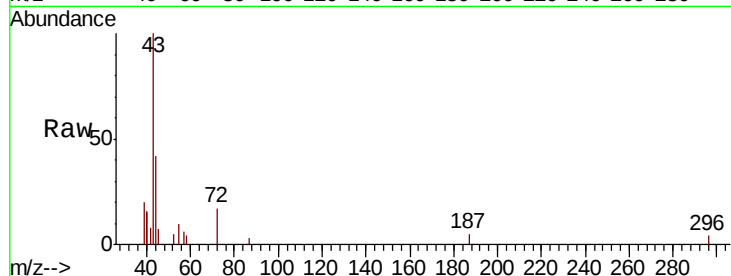




#34
 2-Butanone
 Concen: 0.031 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL034504.D
 Acq: 17 Dec 2019 22:30

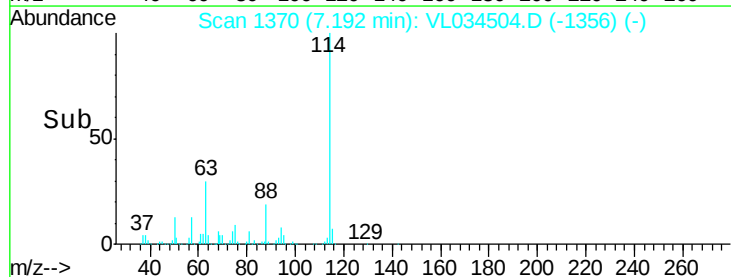
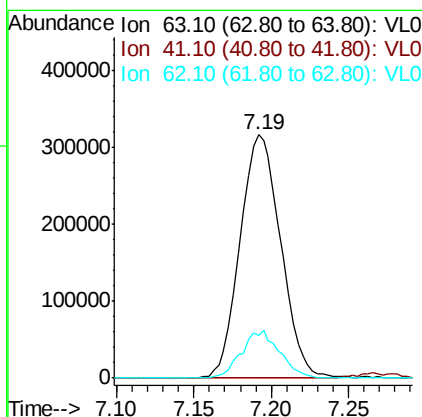
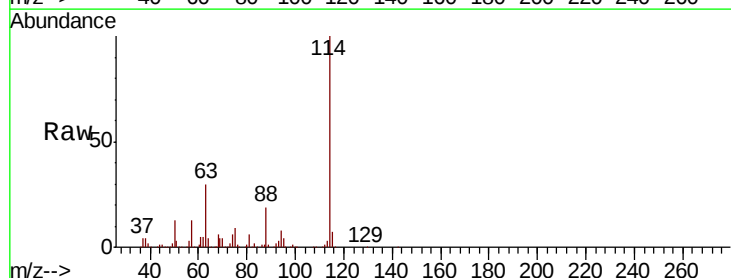
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA3DL

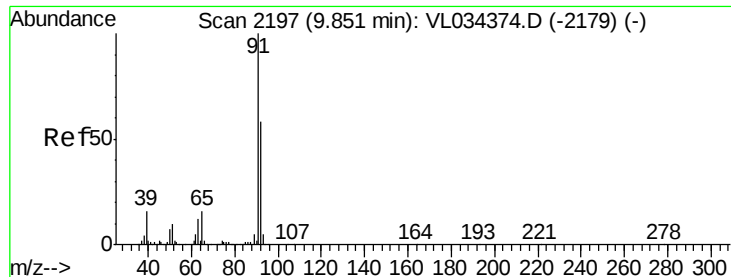
Tgt Ion: 43 Resp: 4891
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#



#39
 1,2-Dichloropropane
 Concen: 7.789 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.46 min
 Lab File: VL034504.D
 Acq: 17 Dec 2019 22:30

Tgt Ion: 63 Resp: 578436
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 17.8 52.3 78.5#





#53

Toluene

Concen: 0.045 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. -0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Instrument :

MSVOA_L

ClientSampleId :

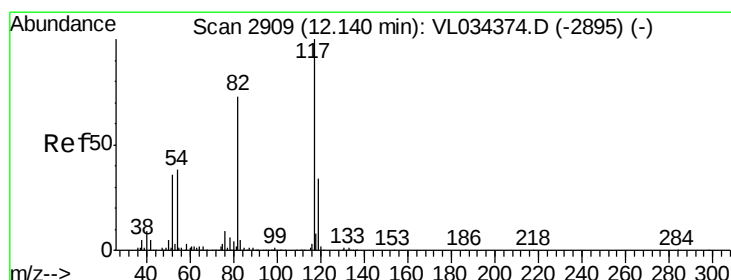
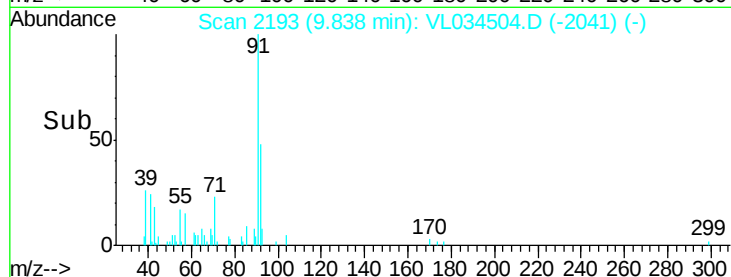
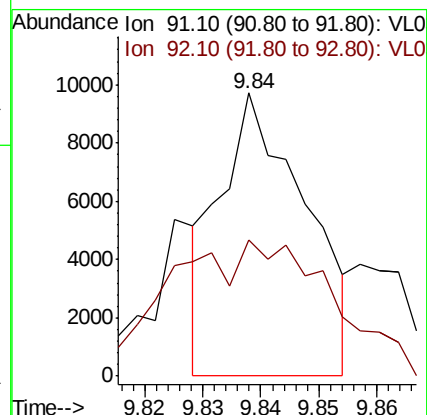
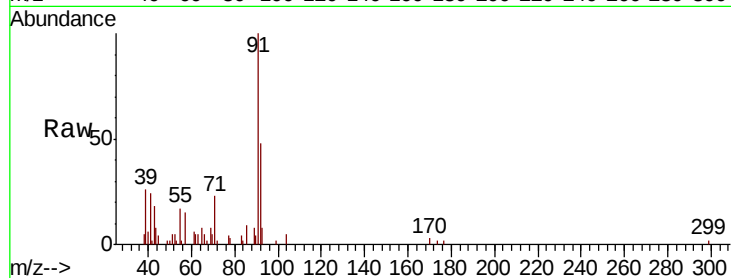
LIHA-IA3DL

Tgt Ion: 91 Resp: 9957

Ion Ratio Lower Upper

91 100

92 98.5 47.9 71.9#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.01 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

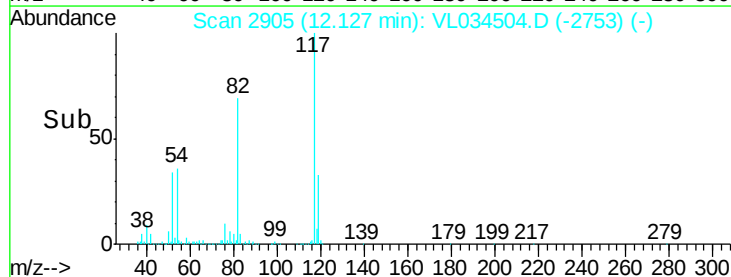
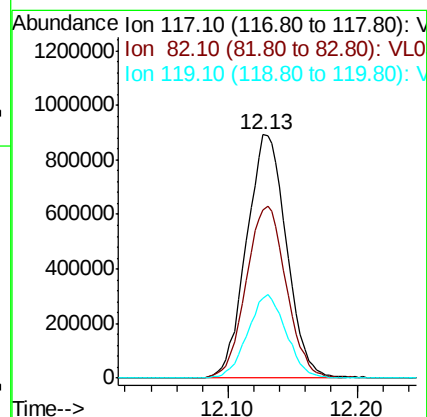
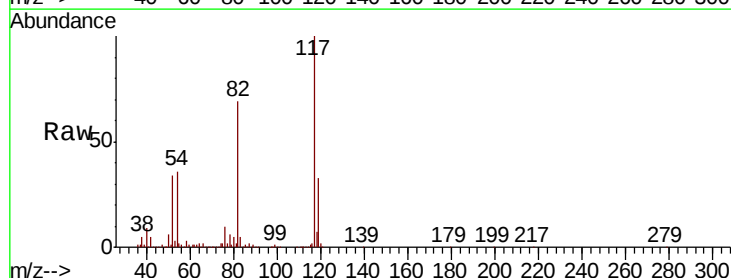
Tgt Ion: 117 Resp: 1924884

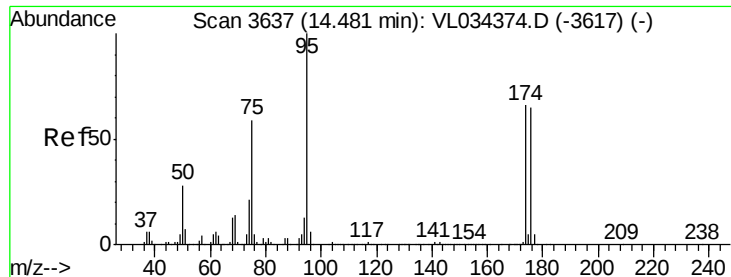
Ion Ratio Lower Upper

117 100

82 71.3 57.5 86.3

119 33.2 25.4 38.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.979 ppbv

RT: 14.46 min Scan# 3632

Delta R.T. -0.02 min

Lab File: VL034504.D

Acq: 17 Dec 2019 22:30

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA3DL

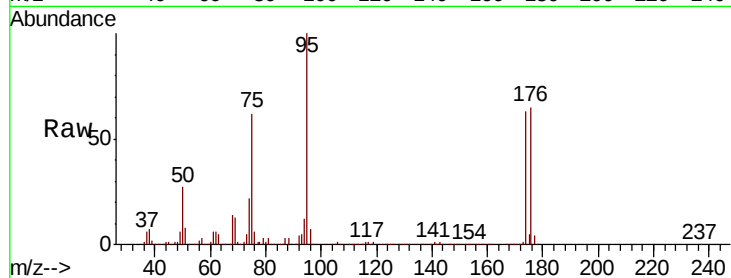
Tgt Ion: 95 Resp: 1615959

Ion Ratio Lower Upper

95 100

174 65.4 52.2 78.2

175 4.7 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

1000000 Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

