

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL121719\
 Data File : VL034505.D
 Acq On : 17 Dec 2019 23:11
 Operator : SY/AP
 Sample : K6319-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-OA1

Quant Time: Dec 18 04:24:03 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	950434	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.19	114	1867147	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.13	117	1838291	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1570873	10.16	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

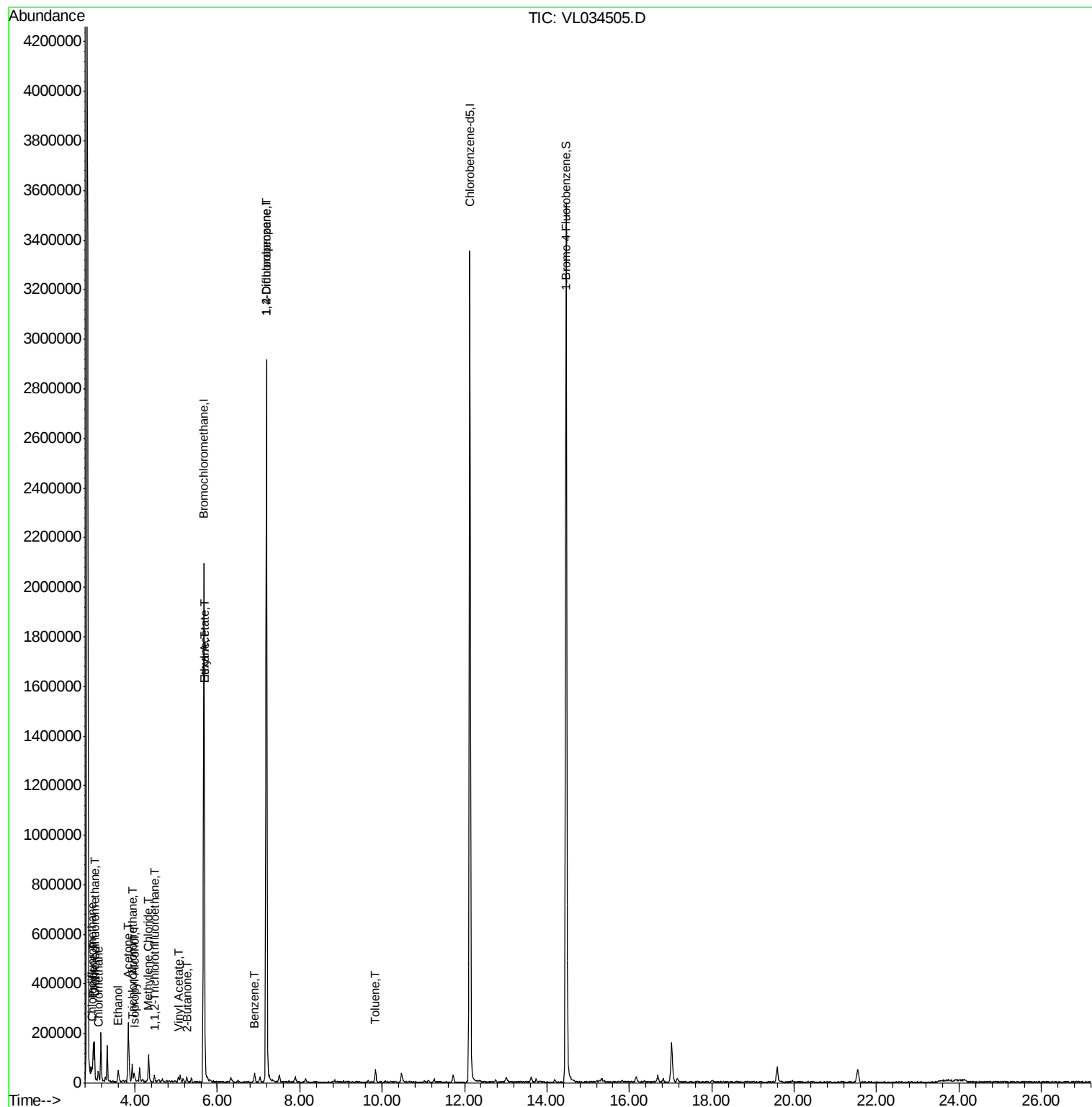
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	94773	0.551	ppbv	91
3) Chlorodifluoromethane	2.96	51	57298	0.483	ppbv #	81
4) Chloromethane	3.11	50	15732	0.225	ppbv #	86
9) Propene	2.99	41	24955	0.474	ppbv	87
11) Trichlorofluoromethane	3.93	101	39419	0.230	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5039	0.044	ppbv #	43
13) Ethanol	3.59	45	46401	3.164	ppbv	98
15) Acetone	3.84	43	243941	1.792	ppbv	99
19) Isopropyl Alcohol	3.98	45	29544	0.339	ppbv #	96
20) Methylene Chloride	4.33	84	32577	0.675	ppbv	86
23) Vinyl Acetate	5.06	43	5721	0.032	ppbv #	45
25) Ethyl Acetate	5.69	43	15744	0.065	ppbv #	84
26) Hexane	5.69	57	25870	0.248	ppbv #	43
34) 2-Butanone	5.26	43	21713	0.141	ppbv	96
36) Benzene	6.90	78	24354	0.130	ppbv #	79
39) 1,2-Dichloropropane	7.19	63	555277	7.722	ppbv #	23
53) Toluene	9.83	91	15894	0.075	ppbv #	21

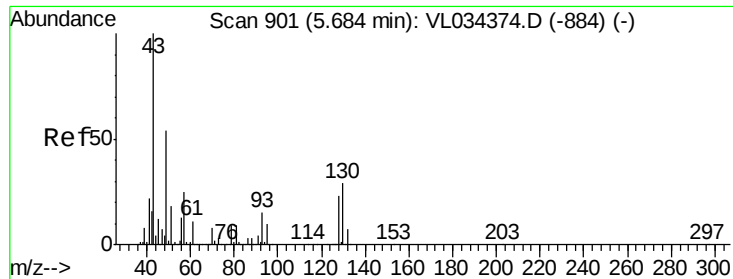
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 18 04:24:03 2019
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

LIHA-OA1

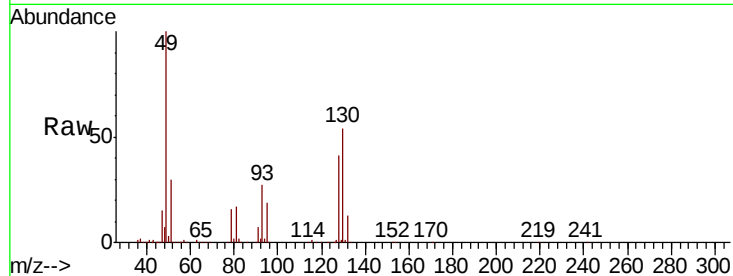
Tgt Ion: 49 Resp: 950434

Ion Ratio Lower Upper

49 100

128 44.1 21.8 65.3

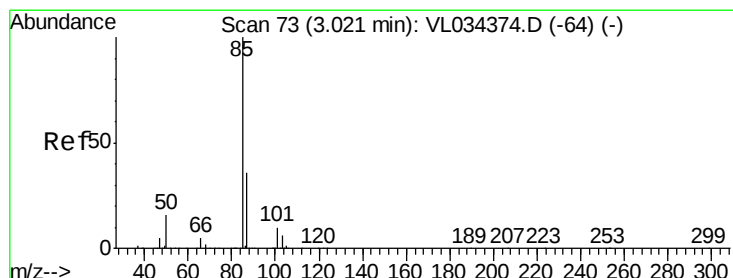
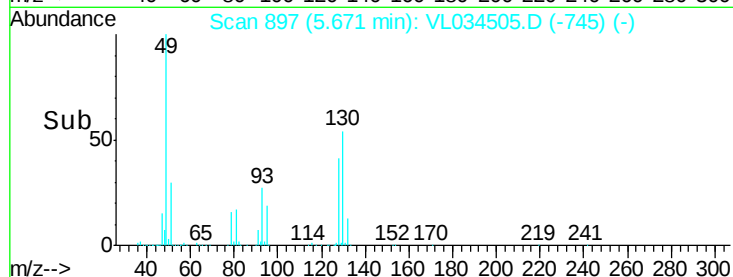
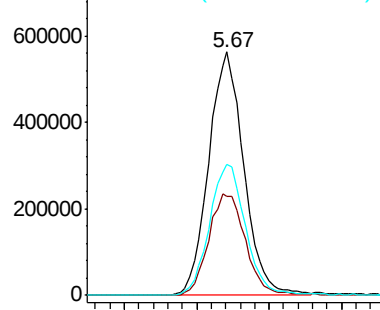
130 55.8 28.0 84.0



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: 0.551 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL034505.D

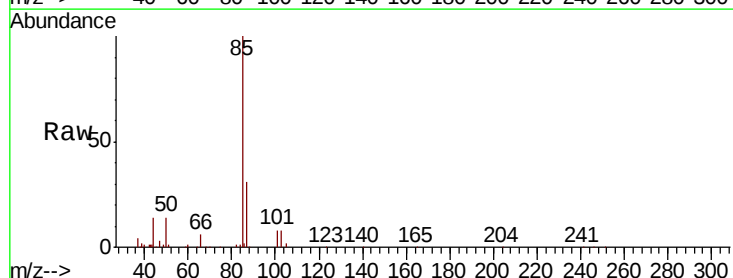
Acq: 17 Dec 2019 23:11

Tgt Ion: 85 Resp: 94773

Ion Ratio Lower Upper

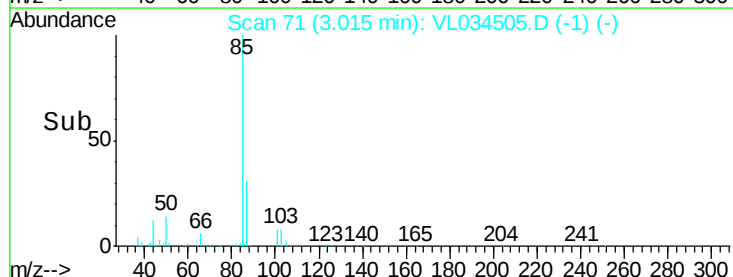
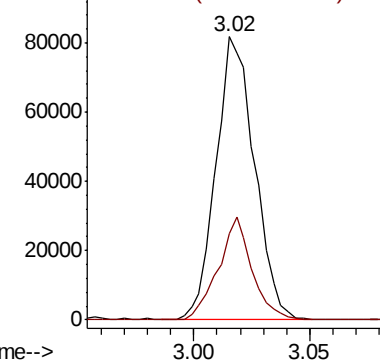
85 100

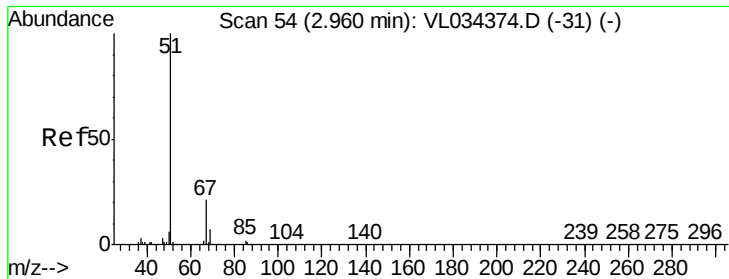
87 30.6 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.483 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

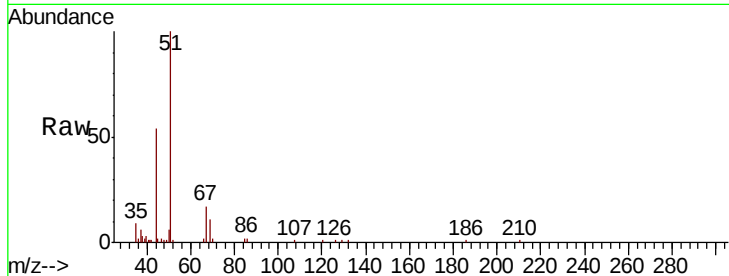
LIHA-OA1

Tgt Ion: 51 Resp: 57298

Ion Ratio Lower Upper

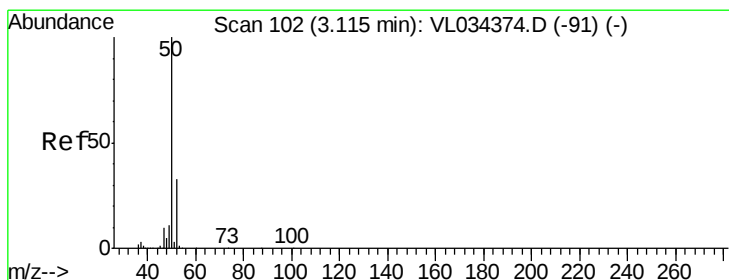
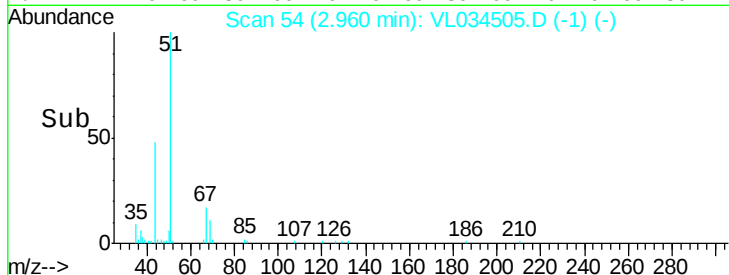
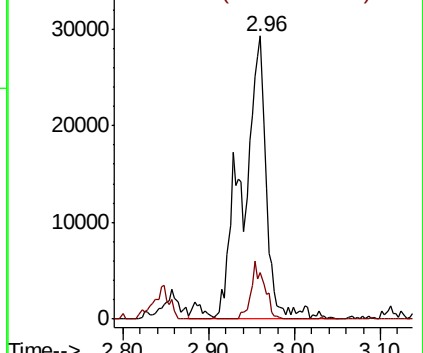
51 100

67 11.3 16.2 24.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.225 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.01 min

Lab File: VL034505.D

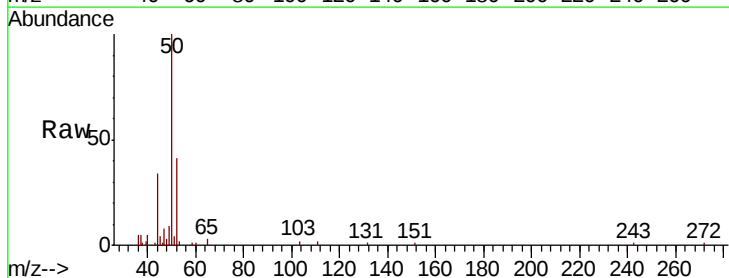
Acq: 17 Dec 2019 23:11

Tgt Ion: 50 Resp: 15732

Ion Ratio Lower Upper

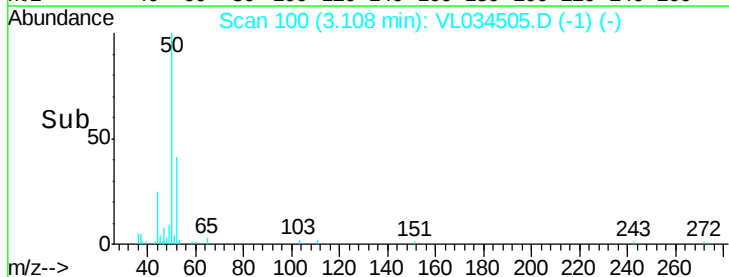
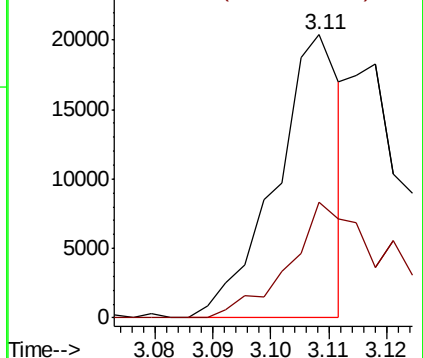
50 100

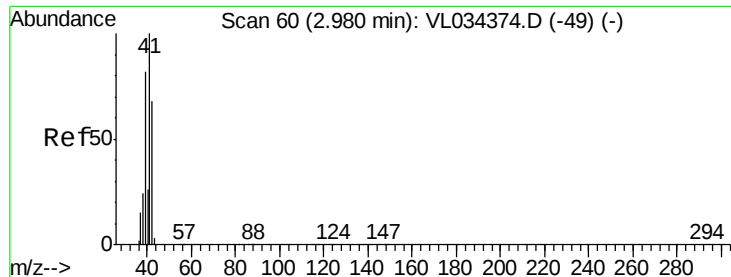
52 41.5 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.474 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

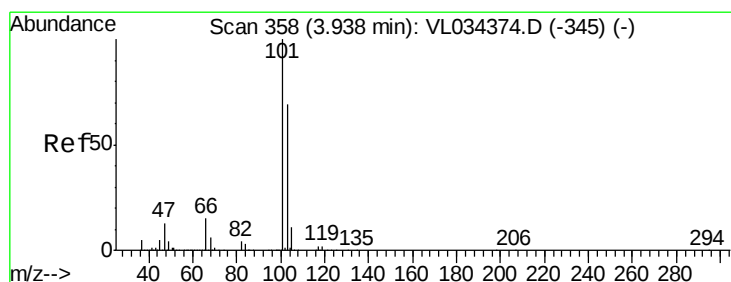
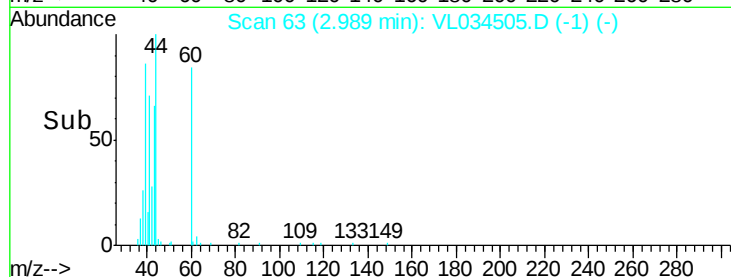
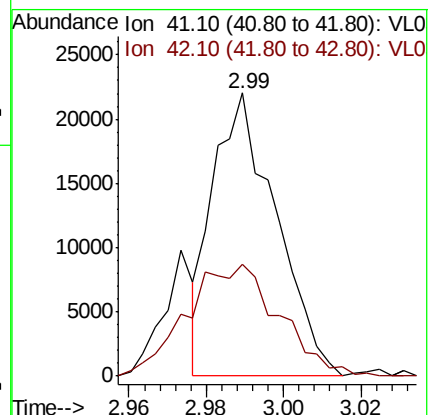
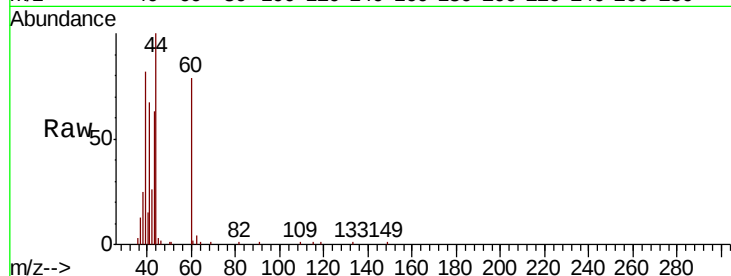
LIHA-OA1

Tgt Ion: 41 Resp: 24955

Ion Ratio Lower Upper

41 100

42 57.9 54.6 82.0



#11

Trichlorofluoromethane

Concen: 0.230 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL034505.D

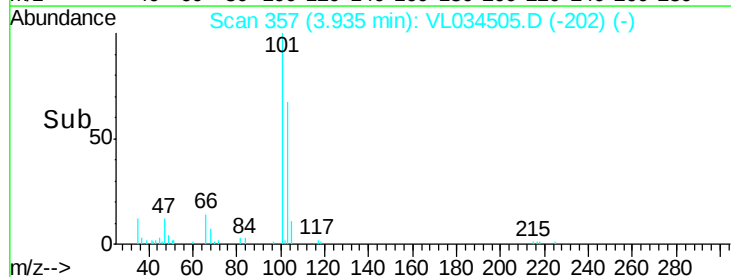
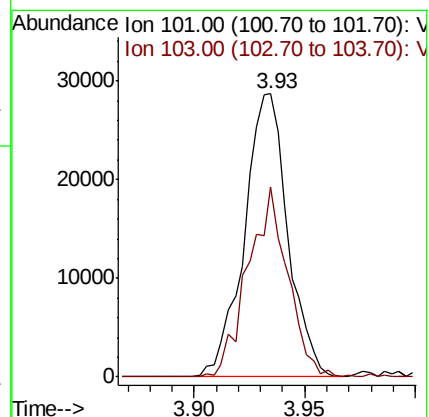
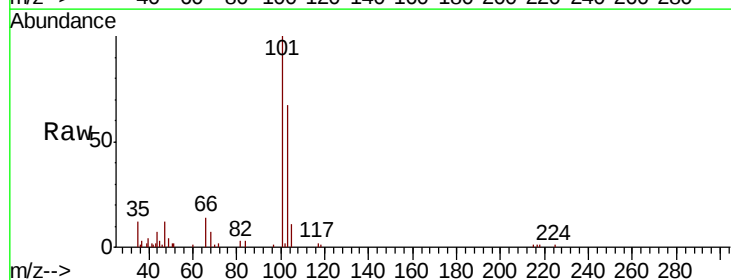
Acq: 17 Dec 2019 23:11

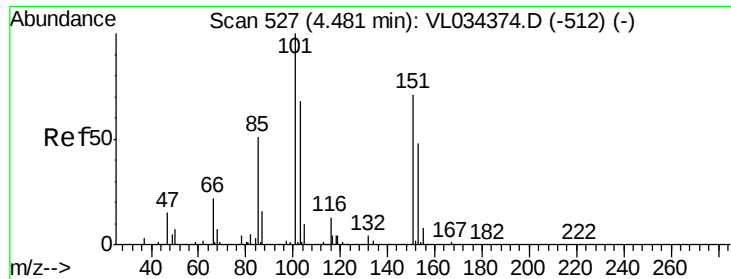
Tgt Ion: 101 Resp: 39419

Ion Ratio Lower Upper

101 100

103 67.3 55.4 83.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.044 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.01 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

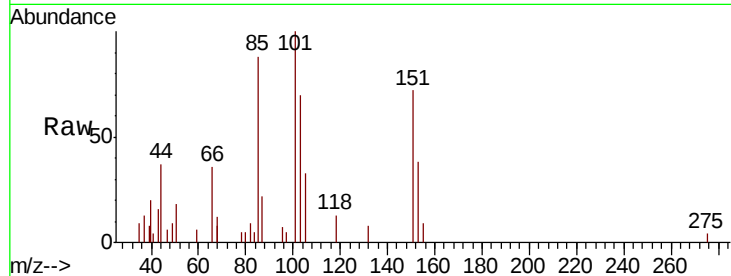
LIHA-OA1

Tgt Ion:101 Resp: 5039

Ion Ratio Lower Upper

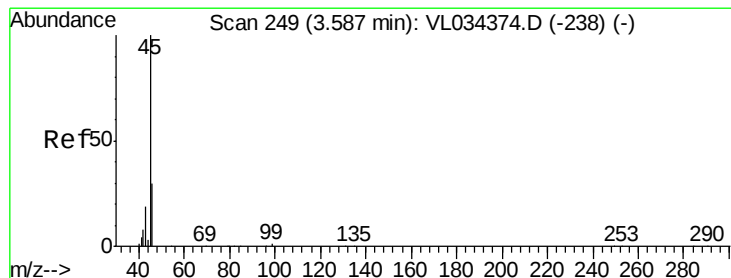
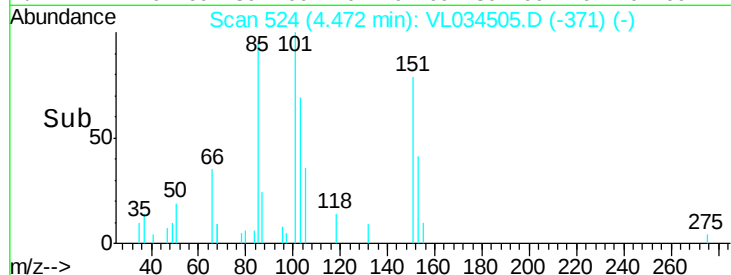
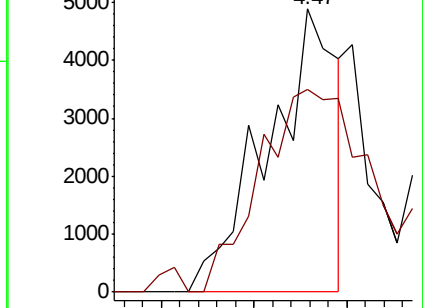
101 100

151 119.5 57.4 86.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 3.164 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.01 min

Lab File: VL034505.D

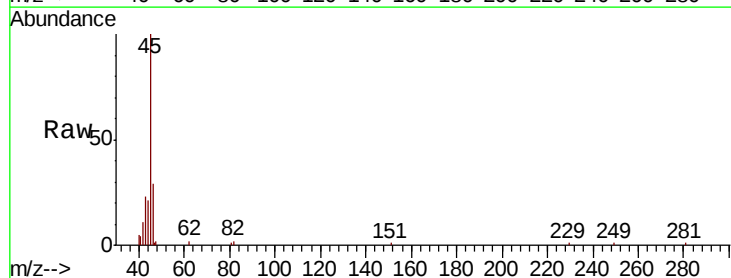
Acq: 17 Dec 2019 23:11

Tgt Ion: 45 Resp: 46401

Ion Ratio Lower Upper

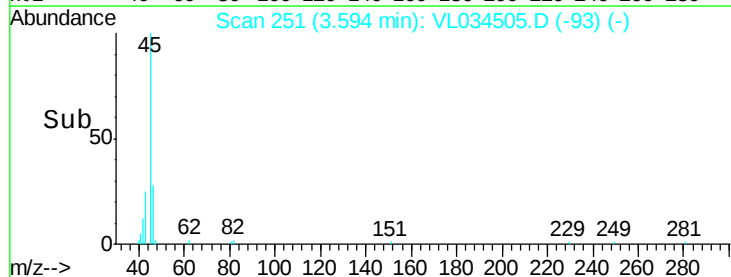
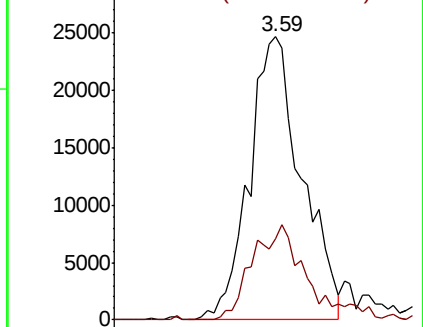
45 100

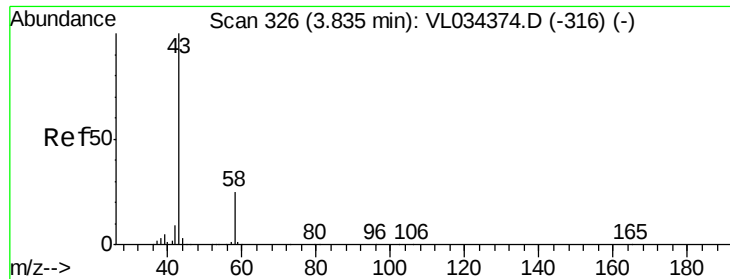
46 35.6 13.8 55.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.792 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.00 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

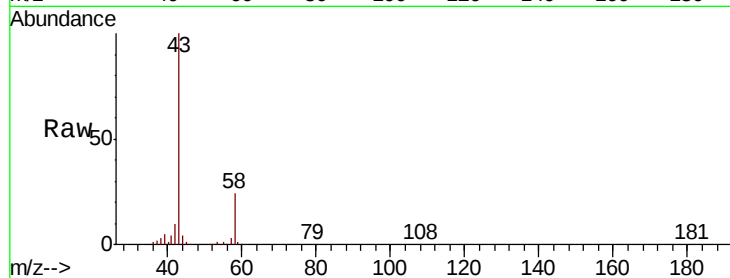
LIHA-OA1

Tgt Ion: 43 Resp: 243941

Ion Ratio Lower Upper

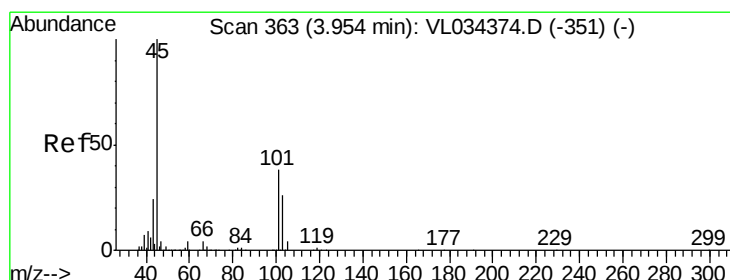
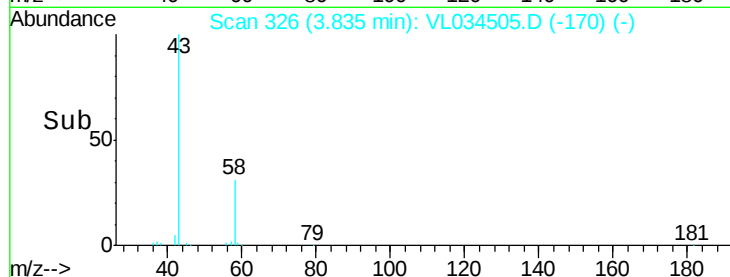
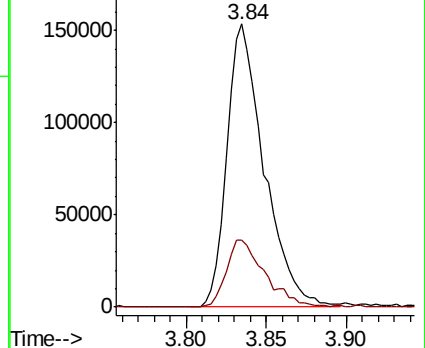
43 100

58 24.9 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.339 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL034505.D

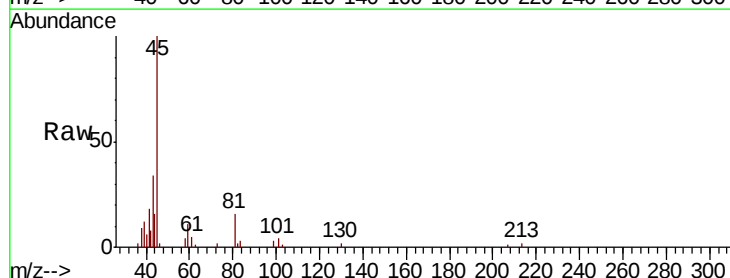
Acq: 17 Dec 2019 23:11

Tgt Ion: 45 Resp: 29544

Ion Ratio Lower Upper

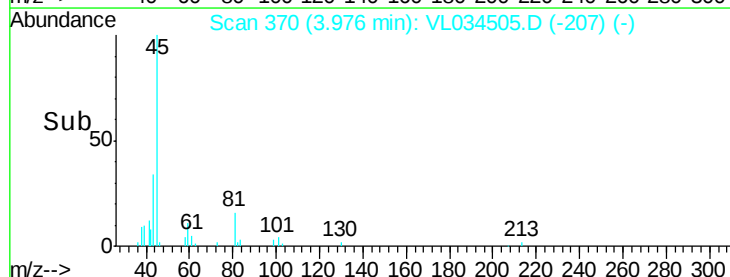
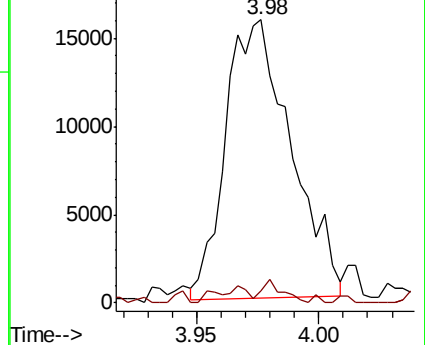
45 100

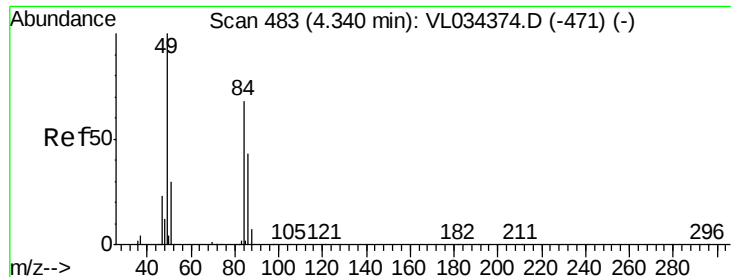
58 0.0 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

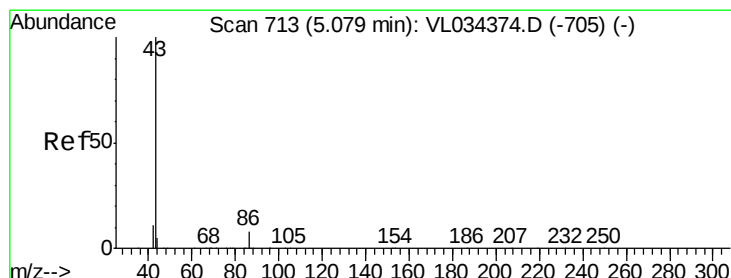
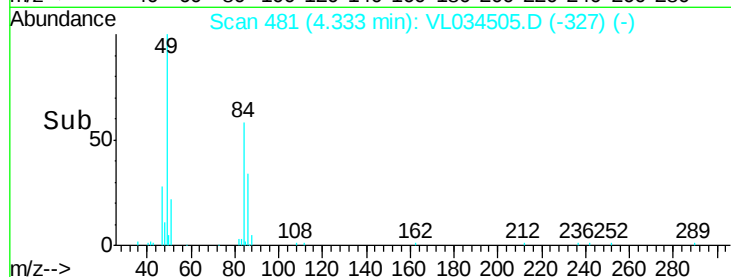
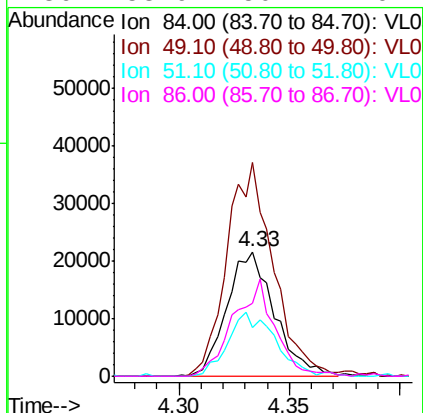
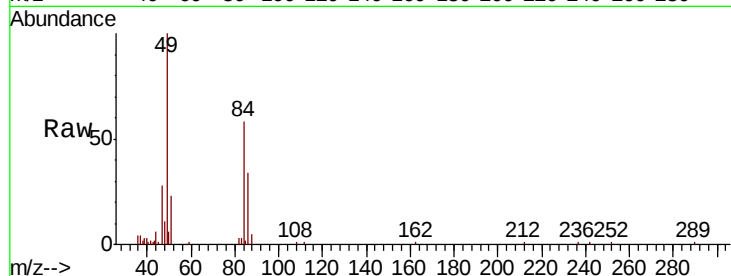




#20
Methylene Chloride
Concen: 0.675 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL034505.D
Acq: 17 Dec 2019 23:11

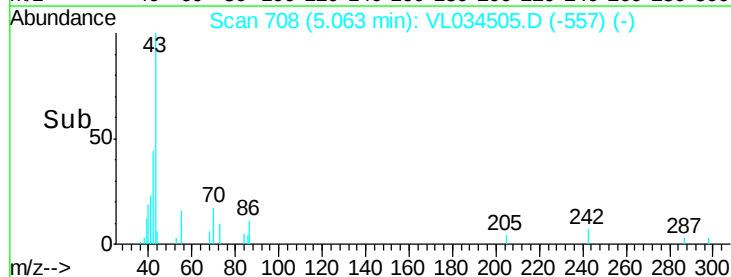
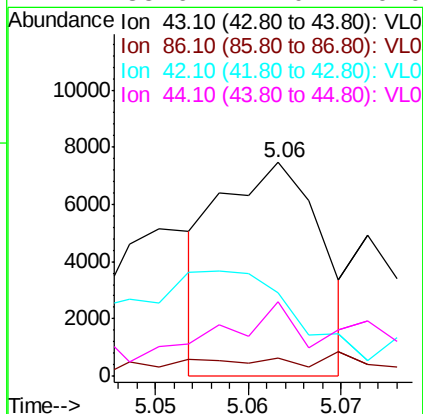
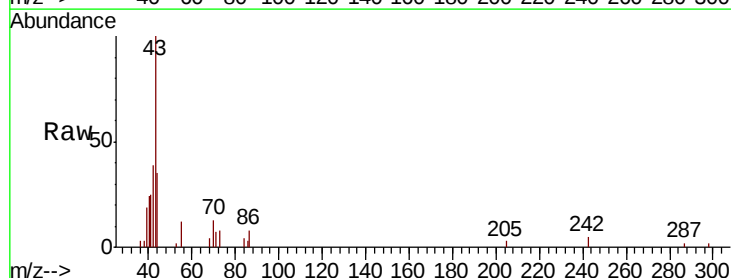
Instrument :
MSVOA_L
ClientSampleId :
LIHA-OA1

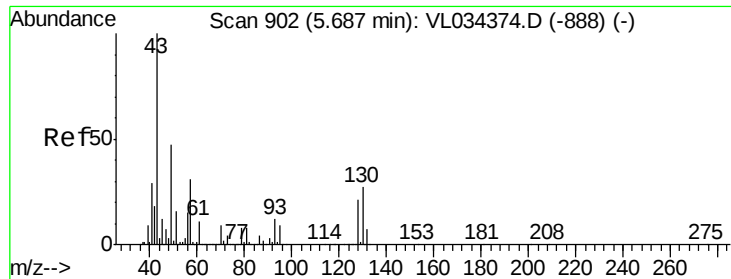
Tgt Ion:	84	Resp:	32577
Ion	Ratio	Lower	Upper
84	100		
49	170.9	116.8	175.2
51	39.5	35.6	53.4
86	58.9	50.7	76.1



#23
Vinyl Acetate
Concen: 0.032 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.02 min
Lab File: VL034505.D
Acq: 17 Dec 2019 23:11

Tgt Ion:	43	Resp:	5721
Ion	Ratio	Lower	Upper
43	100		
86	1.0	5.8	8.6#
42	34.5	8.9	13.3#
44	35.6	4.0	6.0#





#25

Ethyl Acetate

Concen: 0.065 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

LIHA-OA1

Tgt Ion: 43 Resp: 15744

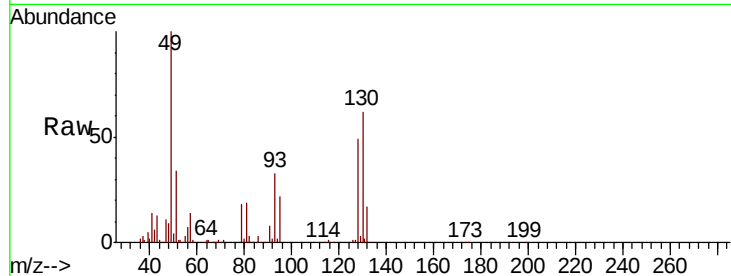
Ion Ratio Lower Upper

43 100

45 8.5 8.2 12.4

61 0.0 7.5 11.3#

70 0.0 5.7 8.5#

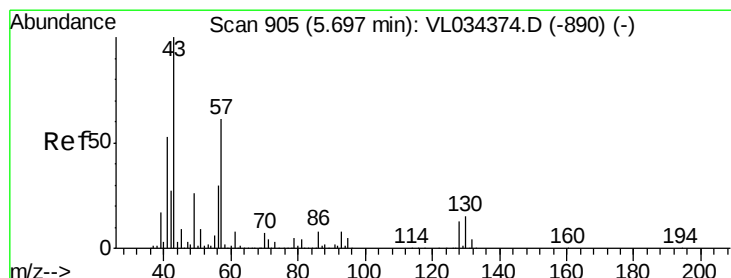
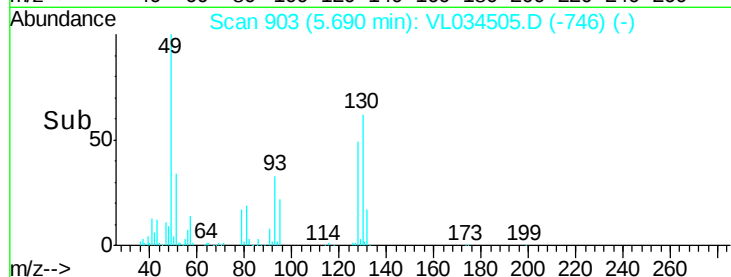
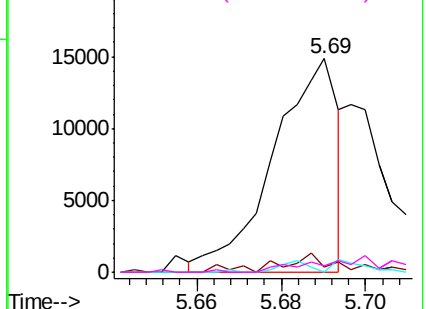


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.248 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Tgt Ion: 57 Resp: 25870

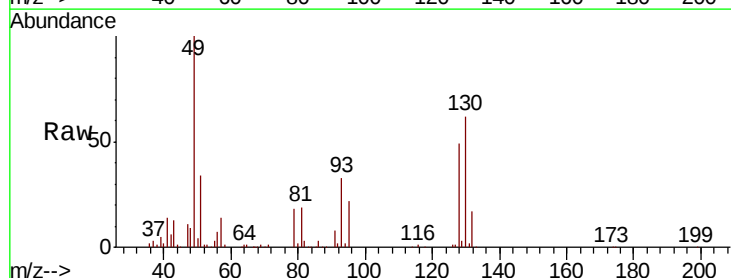
Ion Ratio Lower Upper

57 100

41 114.9 75.0 112.4#

43 97.0 186.6 279.8#

56 60.1 41.5 62.3

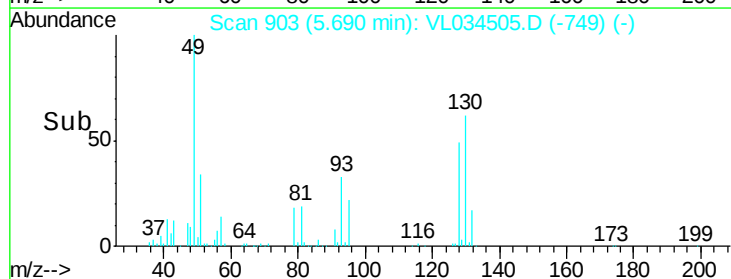
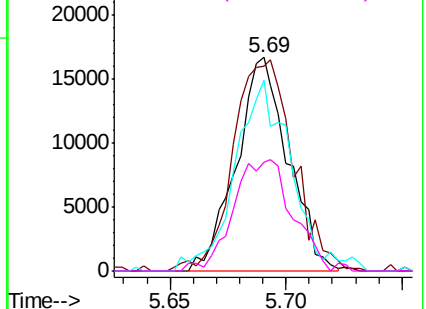


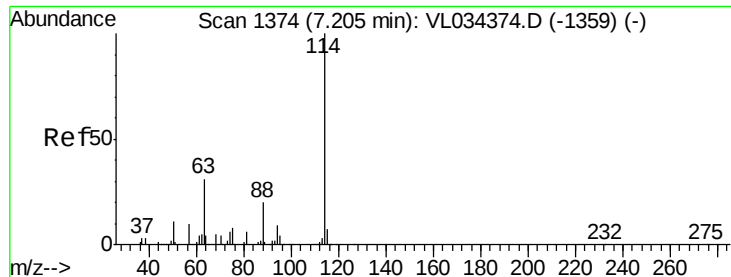
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

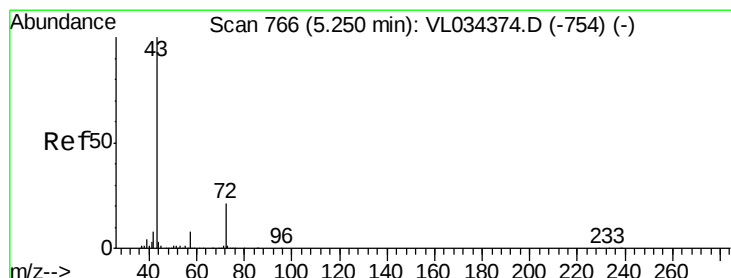
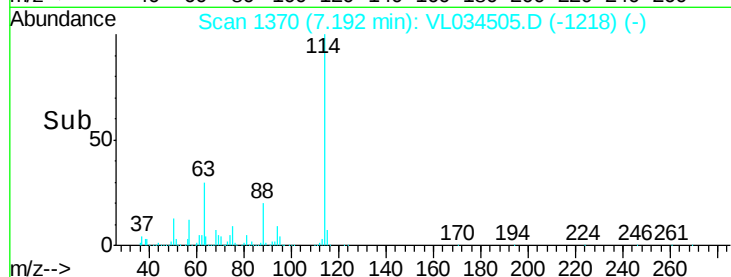
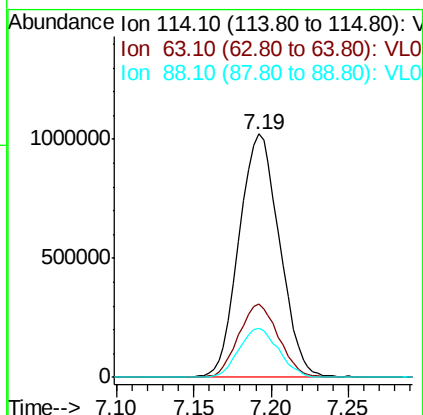
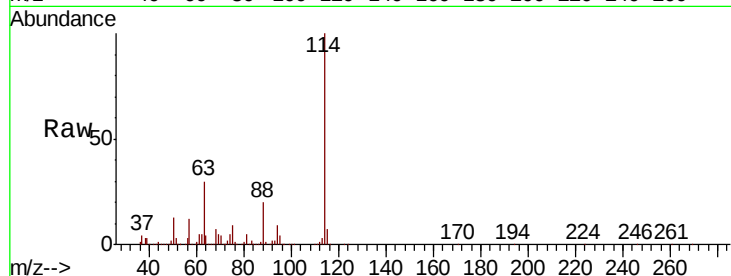




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.01 min
 Lab File: VL034505.D
 Acq: 17 Dec 2019 23:11

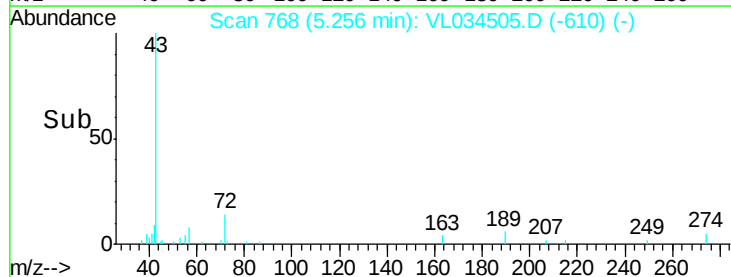
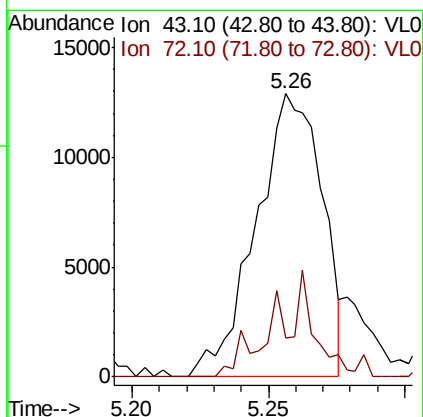
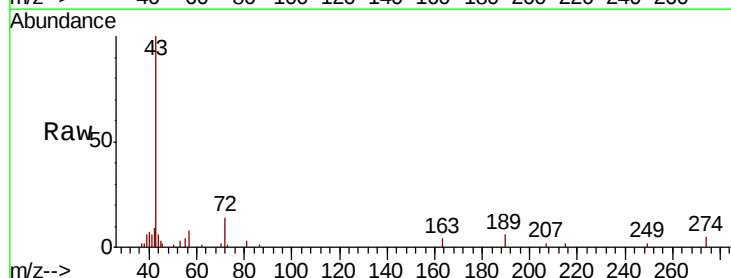
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-OA1

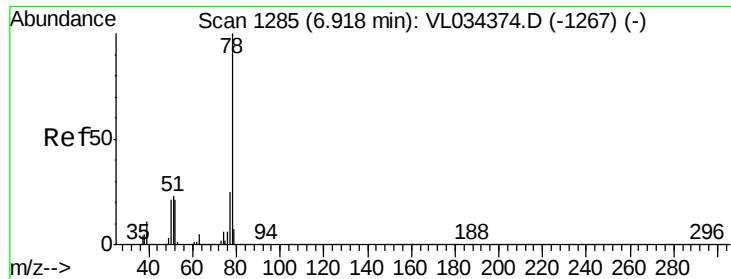
Tgt Ion:114 Resp: 1867147
 Ion Ratio Lower Upper
 114 100
 63 29.8 24.2 36.4
 88 19.6 15.9 23.9



#34
 2-Butanone
 Concen: 0.141 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL034505.D
 Acq: 17 Dec 2019 23:11

Tgt Ion: 43 Resp: 21713
 Ion Ratio Lower Upper
 43 100
 72 23.3 17.0 25.6





#36

Benzene

Concen: 0.130 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.02 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

LIHA-OA1

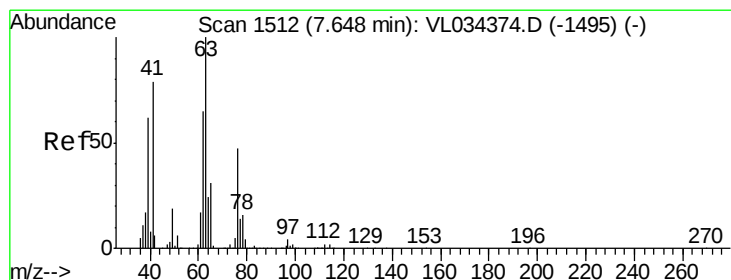
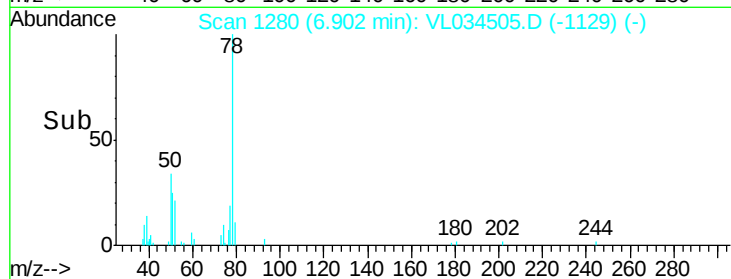
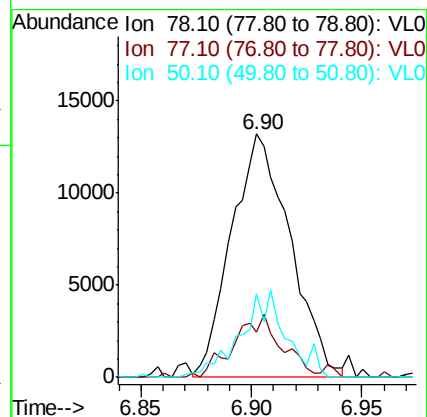
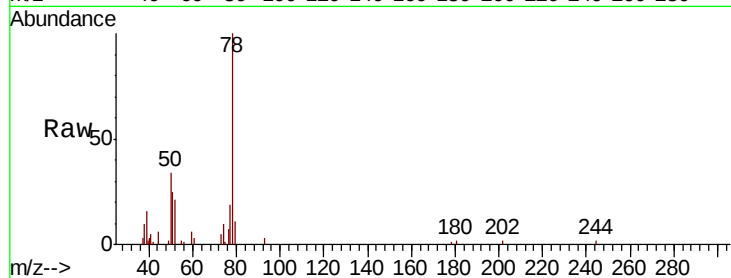
Tgt Ion: 78 Resp: 24354

Ion Ratio Lower Upper

78 100

77 17.5 20.2 30.4#

50 34.6 17.1 25.7#



#39

1,2-Dichloropropane

Concen: 7.722 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.46 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

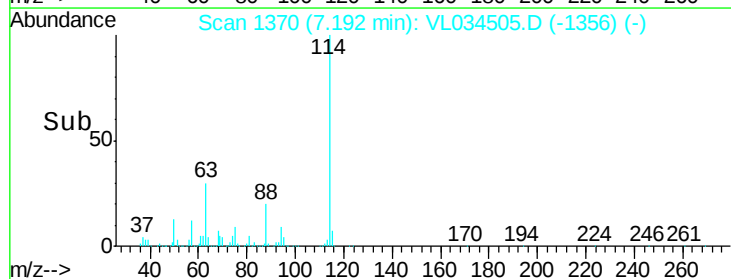
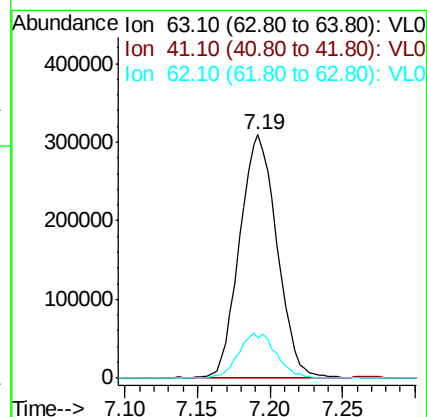
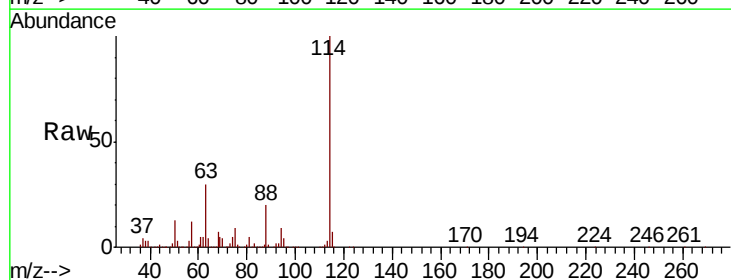
Tgt Ion: 63 Resp: 555277

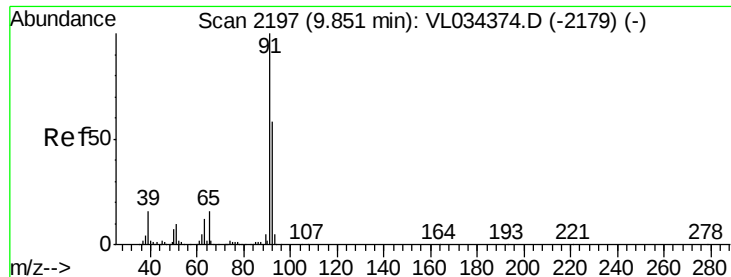
Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

62 16.7 52.3 78.5#





#53

Toluene

Concen: 0.075 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.02 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

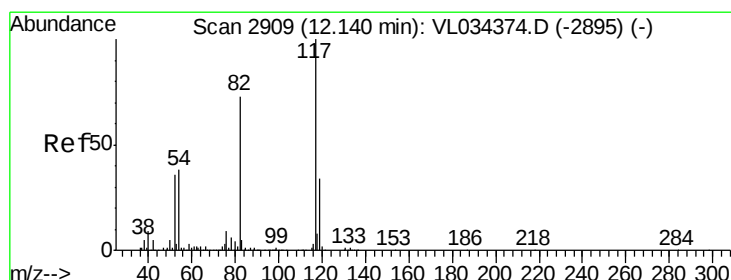
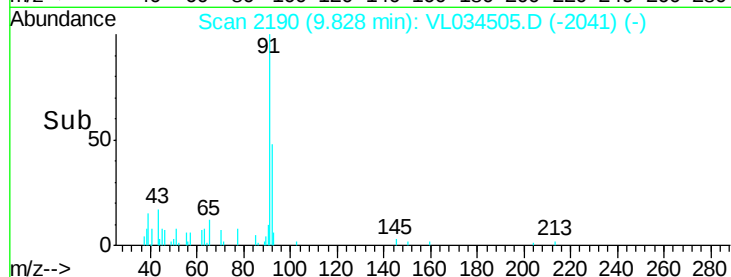
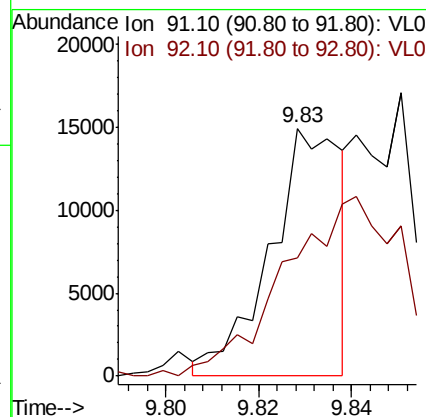
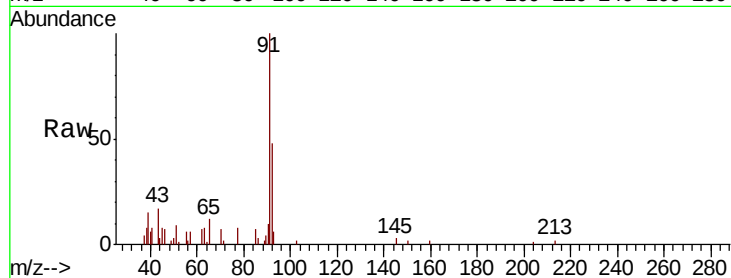
LIHA-OA1

Tgt Ion: 91 Resp: 15894

Ion Ratio Lower Upper

91 100

92 0.0 47.9 71.9#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2906

Delta R.T. -0.01 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

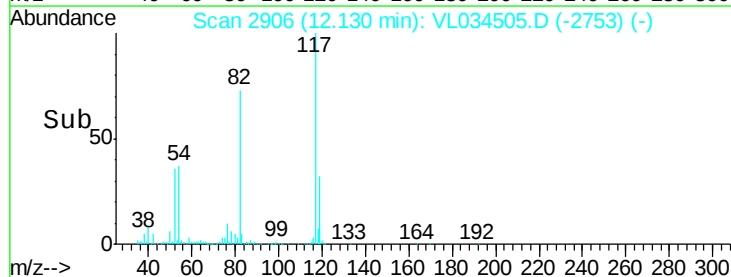
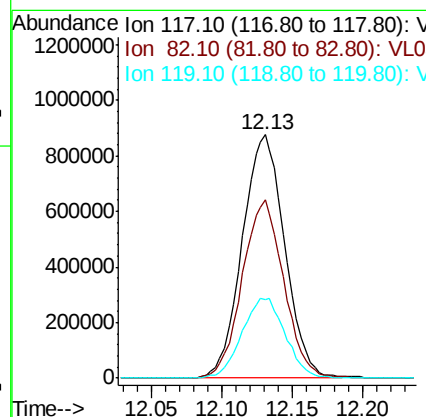
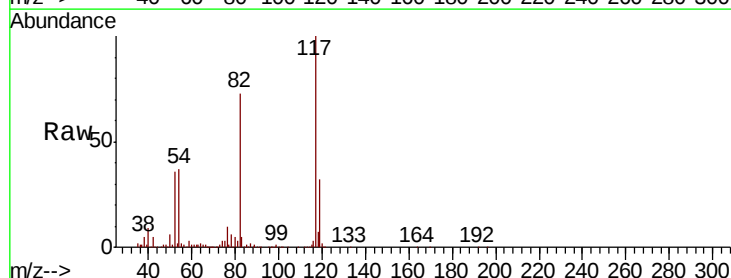
Tgt Ion: 117 Resp: 1838291

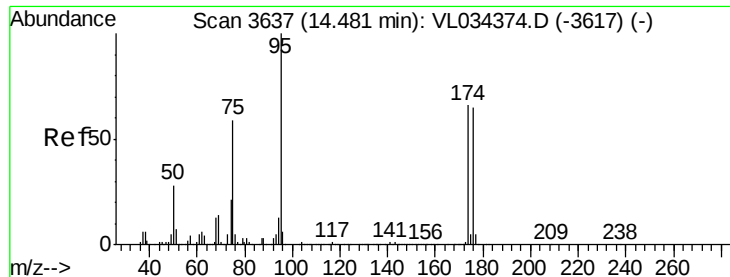
Ion Ratio Lower Upper

117 100

82 72.4 57.5 86.3

119 33.5 25.4 38.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.158 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. -0.01 min

Lab File: VL034505.D

Acq: 17 Dec 2019 23:11

Instrument :

MSVOA_L

ClientSampleId :

LIHA-OA1

Tgt Ion: 95 Resp: 1570873

Ion Ratio Lower Upper

95 100

174 65.9 52.2 78.2

175 4.6 3.8 5.8

