

Data File : VL032717.D
Acq On : 7 Nov 2018 14:58
Operator : SY/AP
Sample : J5809-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA-DUP-110118DL

Quant Time: Nov 08 10:51:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LThu Oct 25 05:15:43 2018
QLast Update : Thu Oct 25 05:15:43 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1531319	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3853692	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3730304	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2822553	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	9259	0.059	ppbv #	74
3) Chlorodifluoromethane	3.02	51	10358	0.086	ppbv #	85
4) Chloromethane	3.18	50	2759	0.041	ppbv #	84
9) Propene	3.25	41	123568	2.507	ppbv	93
13) Ethanol	3.66	45	1911641	135.713	ppbv	98
15) Acetone	3.92	43	346331	2.449	ppbv #	82
16) 1,3-Butadiene	3.35	39	5811	0.112	ppbv #	4
17) tert-Butyl alcohol	4.37	59	3802	0.091	ppbv #	100
19) Isopropyl Alcohol	4.04	45	147359	1.463	ppbv	100
20) Methylene Chloride	4.42	84	16489	0.230	ppbv #	77
23) Vinyl Acetate	5.16	43	10591	0.042	ppbv #	84
25) Ethyl Acetate	5.78	43	30912	0.095	ppbv #	90
34) 2-Butanone	5.35	43	16039	0.078	ppbv	99
36) Benzene	7.02	78	10689	0.034	ppbv #	85
39) 1,2-Dichloropropane	7.30	63	975698	8.074	ppbv #	25
53) Toluene	9.96	91	30639	0.085	ppbv #	20

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

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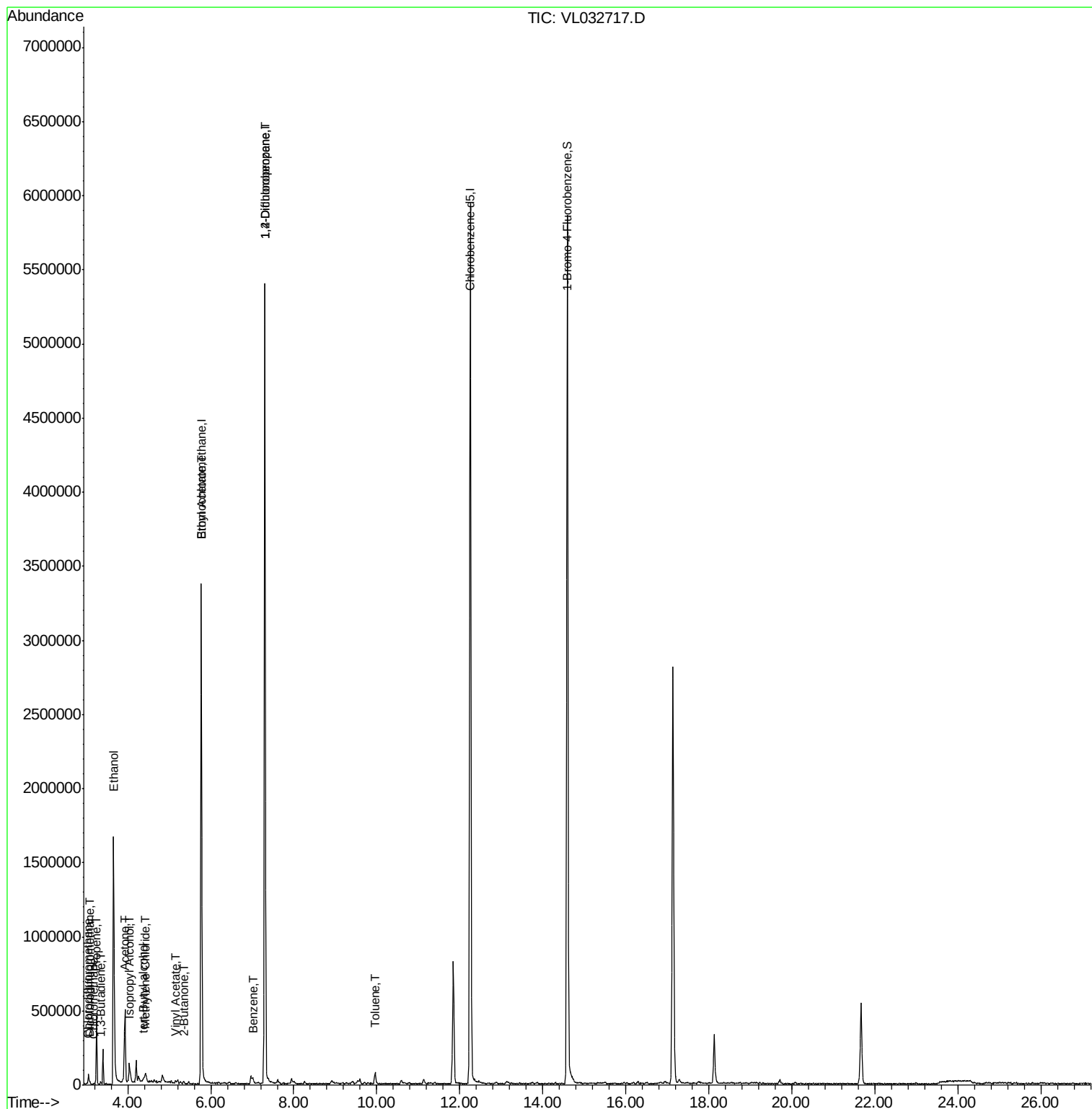
Quant Time: Nov 08 10:51:46 2018

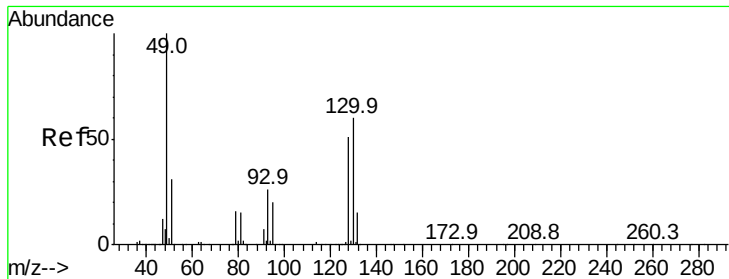
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101818AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 25 05:15:43 2018

QLast Update : Thu Oct 25 05:15:43 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA-DUP-110118DL

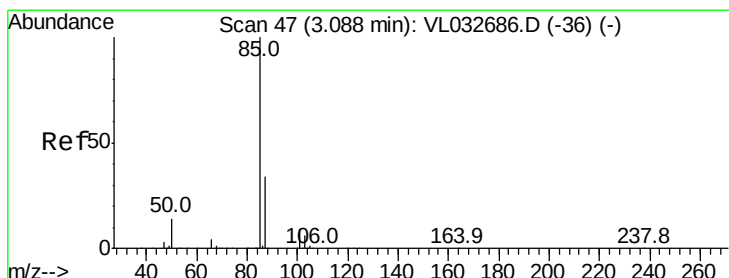
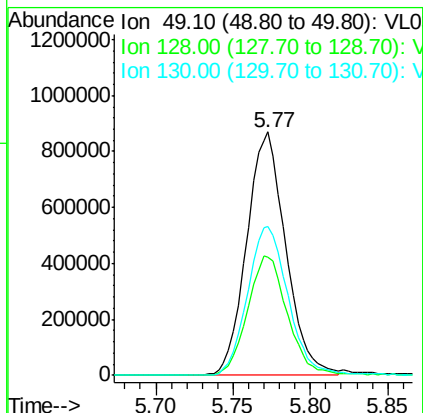
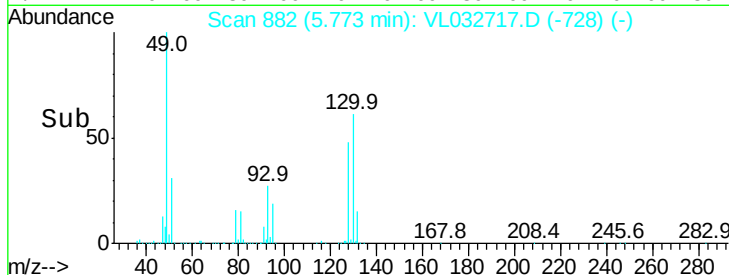
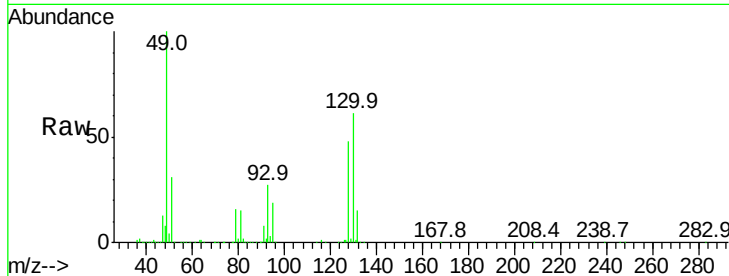
Tgt Ion: 49 Resp: 1531319

Ion Ratio Lower Upper

49 100

128 50.7 22.3 66.8

130 63.9 28.4 85.3



#2

Dichlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.08 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL032717.D

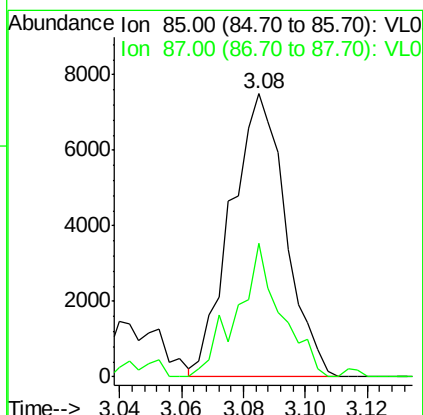
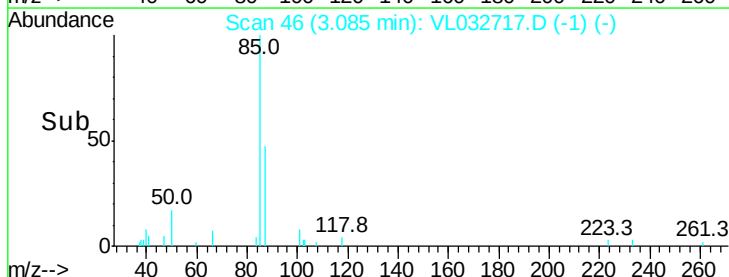
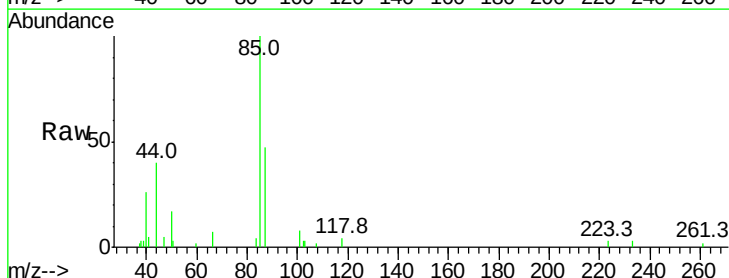
Acq: 7 Nov 2018 14:58

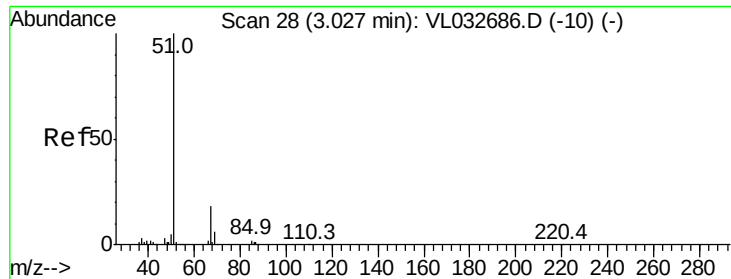
Tgt Ion: 85 Resp: 9259

Ion Ratio Lower Upper

85 100

87 47.1 26.2 39.2#

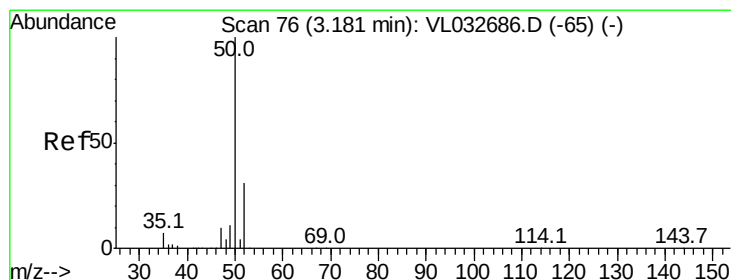
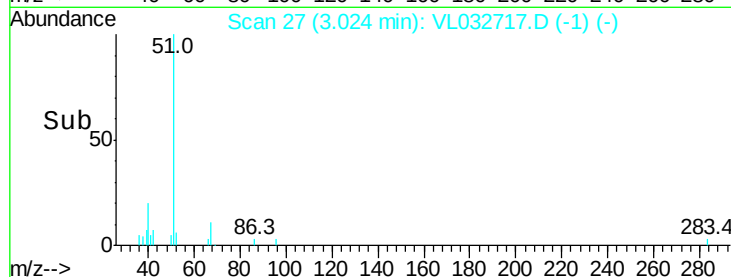
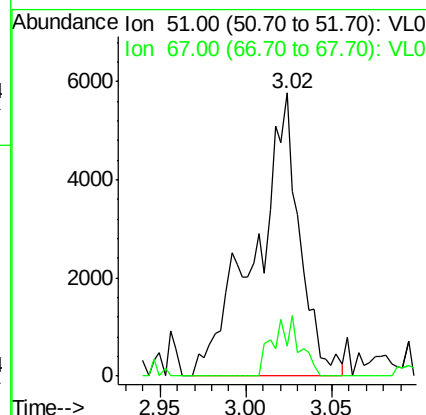
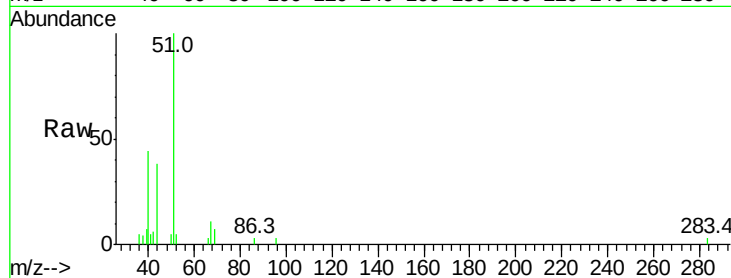




#3
 Chlorodifluoromethane
 Concen: 0.086 ppbv
 RT: 3.02 min Scan# 27
 Delta R.T. 0.00 min
 Lab File: VL032717.D
 Acq: 7 Nov 2018 14:58

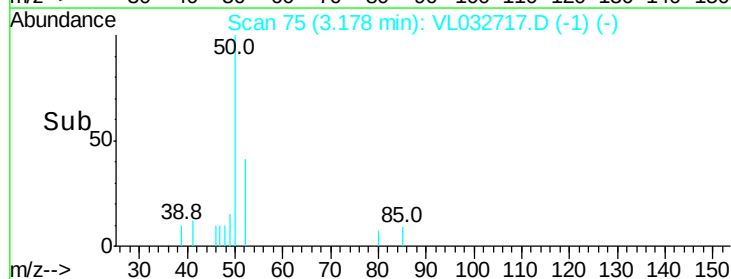
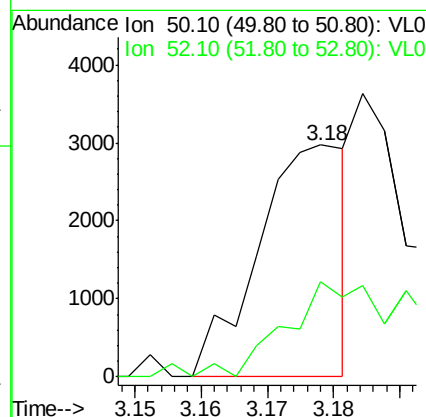
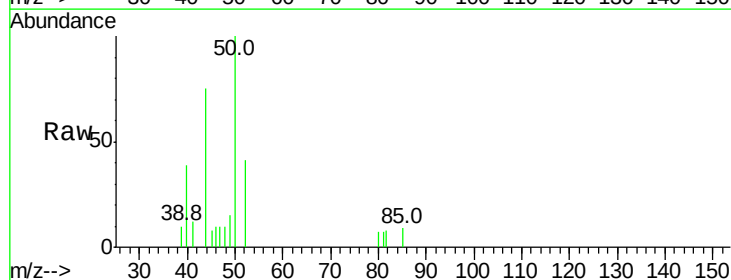
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA-DUP-110118DL

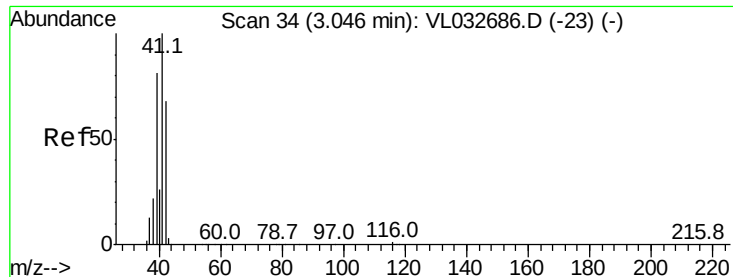
Tgt Ion: 51 Resp: 10358
 Ion Ratio Lower Upper
 51 100
 67 12.5 15.2 22.8#



#4
 Chloromethane
 Concen: 0.041 ppbv
 RT: 3.18 min Scan# 75
 Delta R.T. 0.00 min
 Lab File: VL032717.D
 Acq: 7 Nov 2018 14:58

Tgt Ion: 50 Resp: 2759
 Ion Ratio Lower Upper
 50 100
 52 41.2 25.9 38.9#





#9

Propene

Concen: 2.507 ppbv

RT: 3.25 min Scan# 96

Delta R.T. 0.20 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

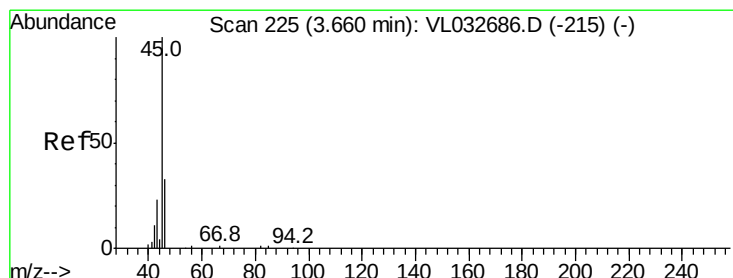
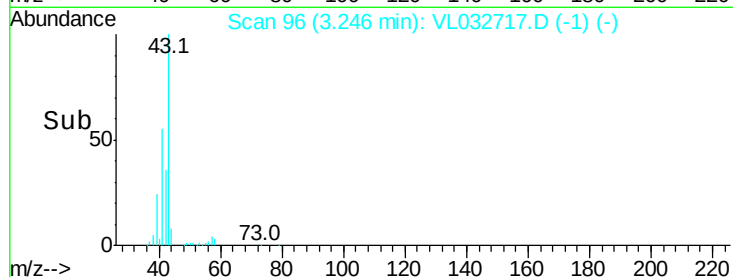
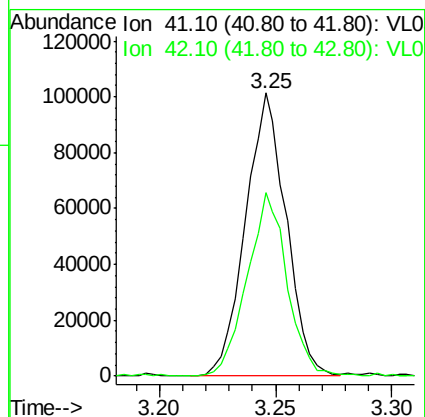
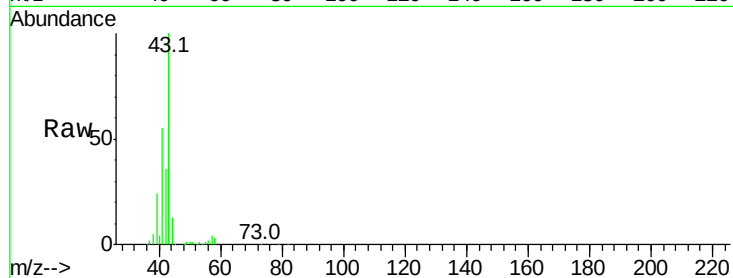
LIHA-IA-DUP-110118DL

Tgt Ion: 41 Resp: 123568

Ion Ratio Lower Upper

41 100

42 63.7 55.4 83.0



#13

Ethanol

Concen: 135.713 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.00 min

Lab File: VL032717.D

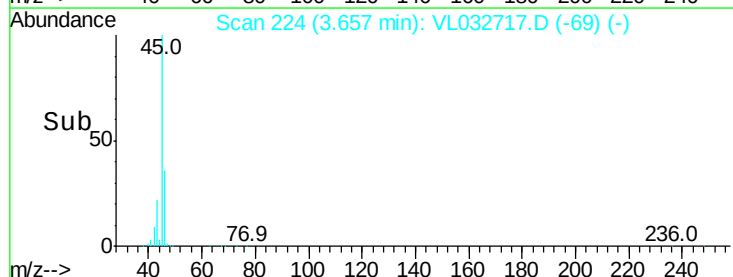
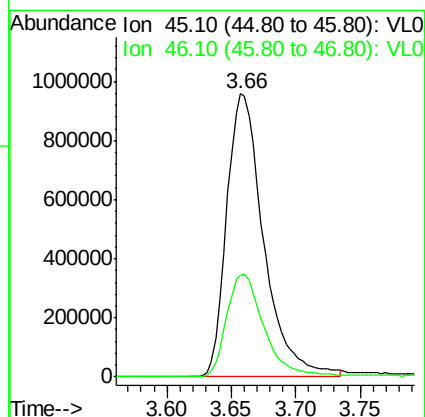
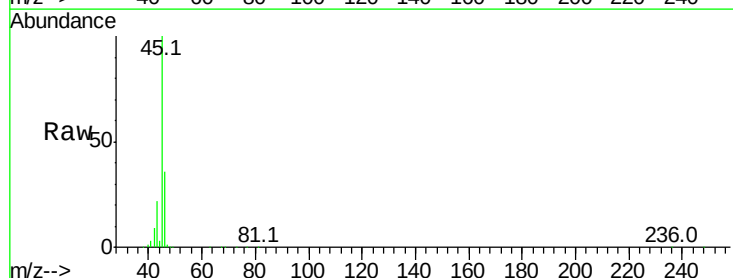
Acq: 7 Nov 2018 14:58

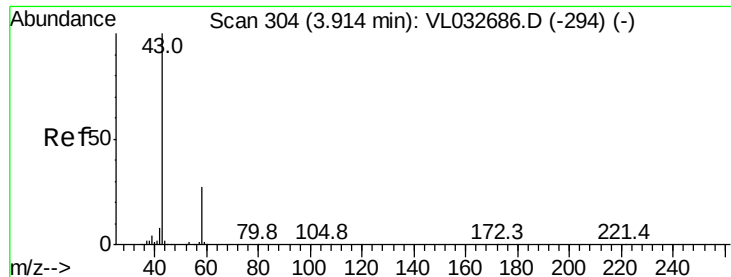
Tgt Ion: 45 Resp: 1911641

Ion Ratio Lower Upper

45 100

46 37.4 15.4 61.8





#15

Acetone

Concen: 2.449 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

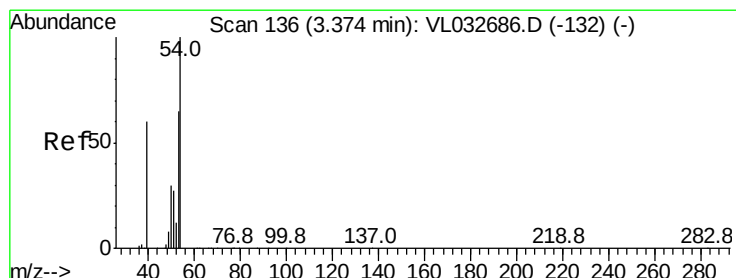
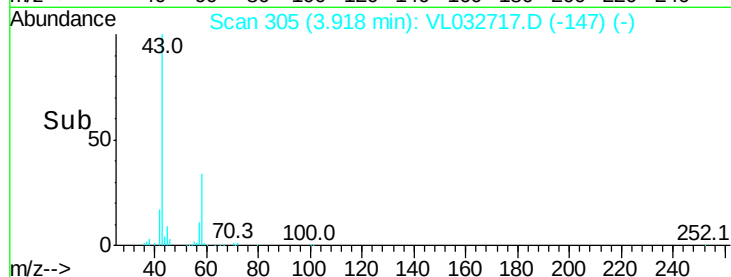
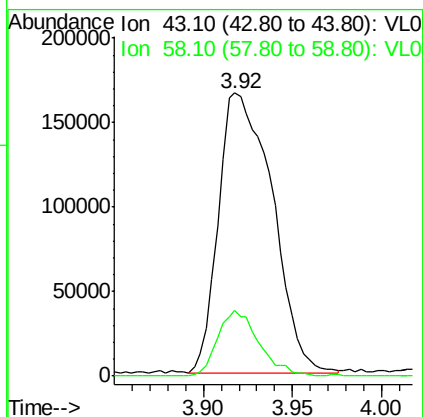
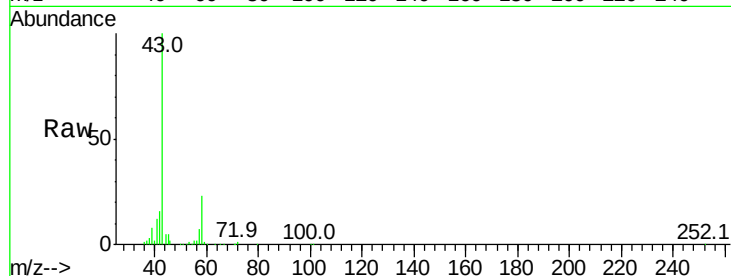
LIHA-IA-DUP-110118DL

Tgt Ion: 43 Resp: 346331

Ion Ratio Lower Upper

43 100

58 18.3 22.1 33.1#



#16

1,3-Butadiene

Concen: 0.112 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL032717.D

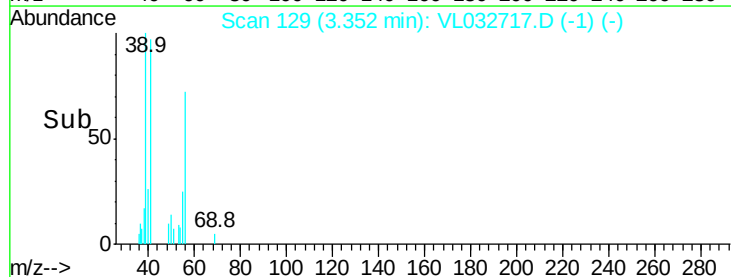
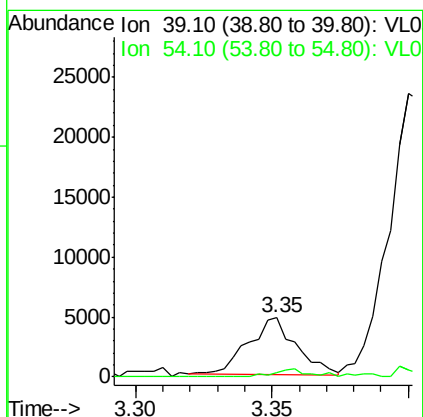
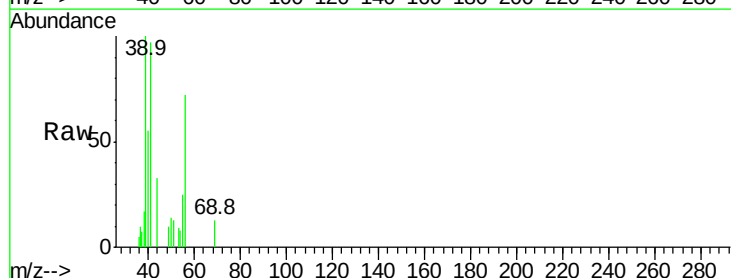
Acq: 7 Nov 2018 14:58

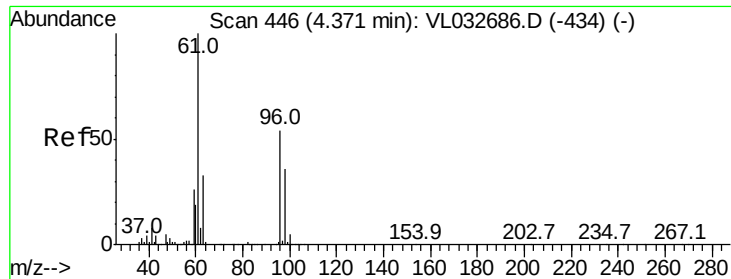
Tgt Ion: 39 Resp: 5811

Ion Ratio Lower Upper

39 100

54 9.9 90.4 135.6#



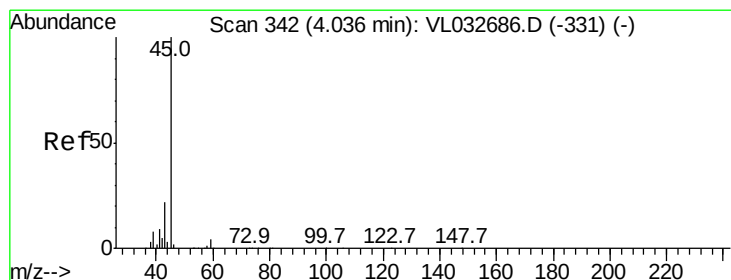
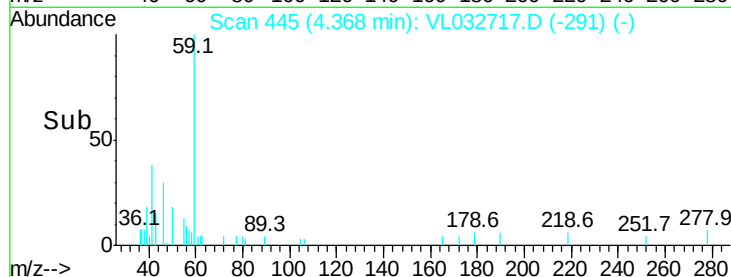
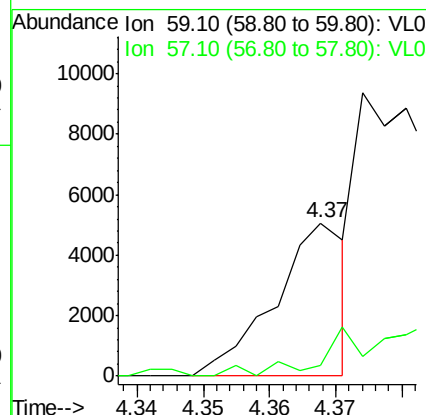
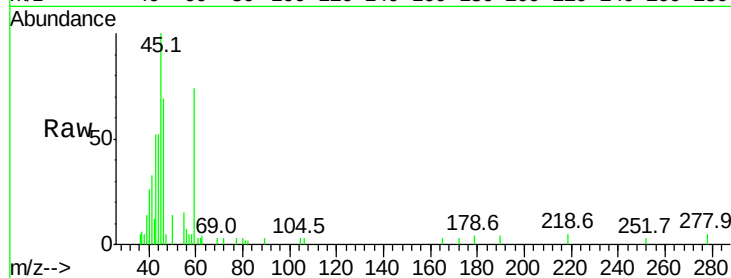


#17

tert-Butyl alcohol
Concen: 0.091 ppbv
RT: 4.37 min Scan# 445
Delta R.T. -0.01 min
Lab File: VL032717.D
Acq: 7 Nov 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA-DUP-110118DL

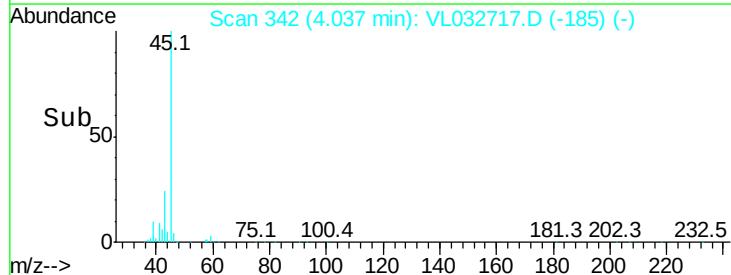
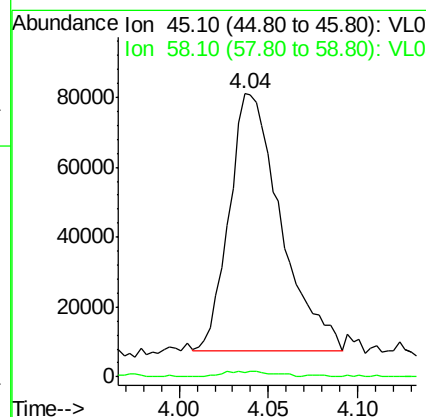
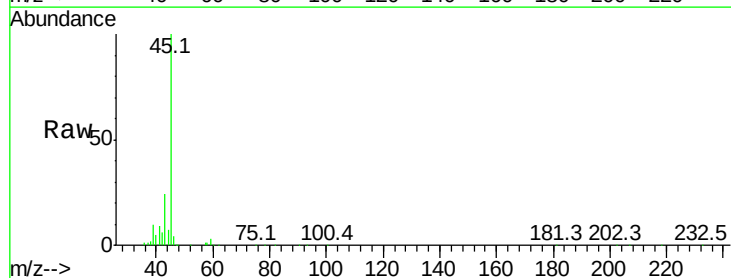
Tgt Ion: 59 Resp: 3802
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0

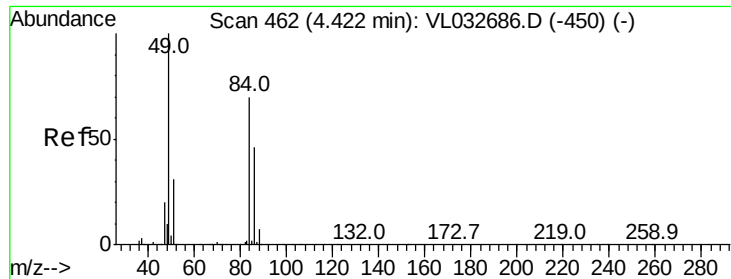


#19

Isopropyl Alcohol
Concen: 1.463 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.00 min
Lab File: VL032717.D
Acq: 7 Nov 2018 14:58

Tgt Ion: 45 Resp: 147359
Ion Ratio Lower Upper
45 100
58 2.5 2.0 3.0

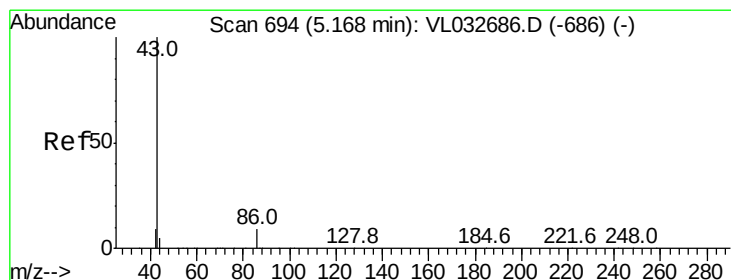
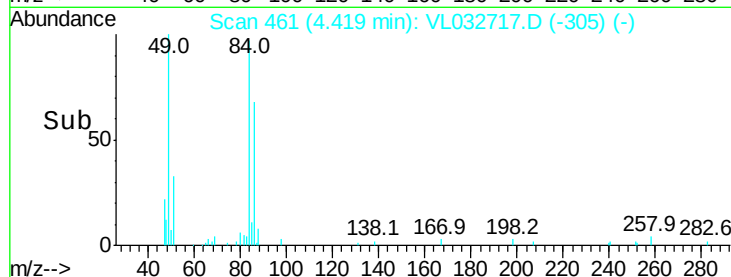
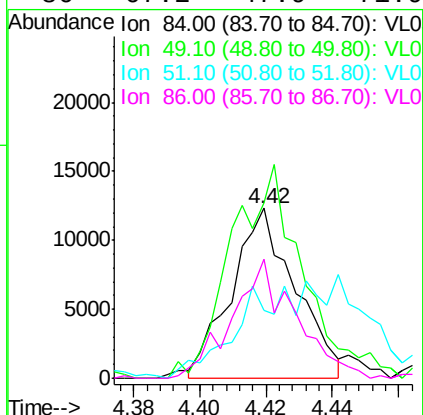
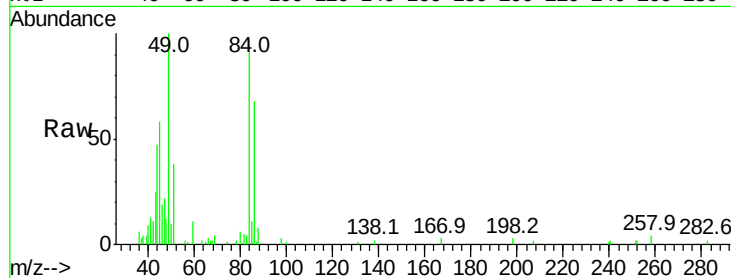




#20
Methylene Chloride
Concen: 0.230 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032717.D
Acq: 7 Nov 2018 14:58

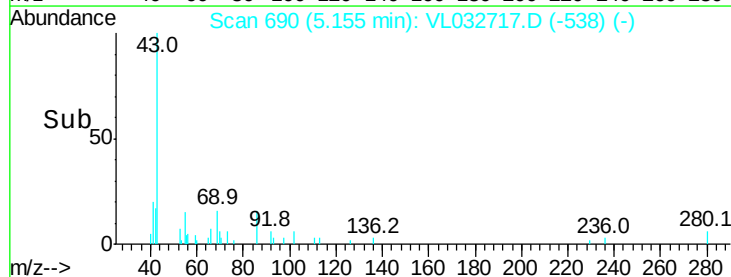
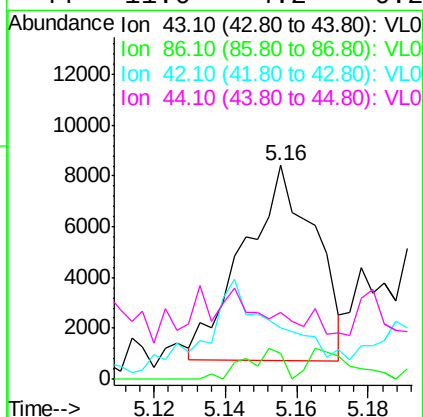
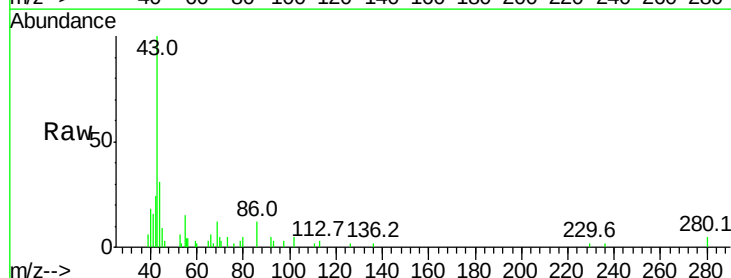
Instrument :
MSVOA_L
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LIHA-IA-DUP-110118DL

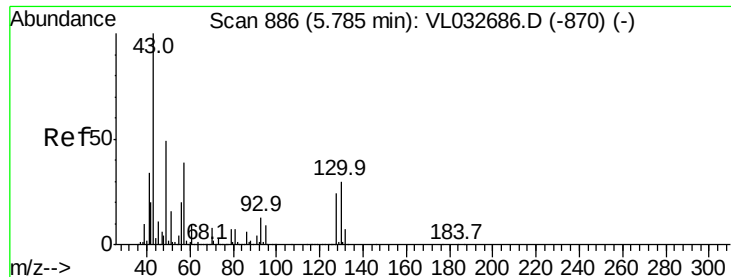
Tgt Ion:	84	Resp:	16489
Ion	Ratio	Lower	Upper
84	100		
49	105.1	113.5	170.3#
51	30.0	34.8	52.2#
86	67.2	47.9	71.9



#23
Vinyl Acetate
Concen: 0.042 ppbv
RT: 5.16 min Scan# 690
Delta R.T. -0.01 min
Lab File: VL032717.D
Acq: 7 Nov 2018 14:58

Tgt Ion:	43	Resp:	10591
Ion	Ratio	Lower	Upper
43	100		
86	14.2	6.1	9.1#
42	13.6	7.4	11.2#
44	11.6	4.2	6.2#

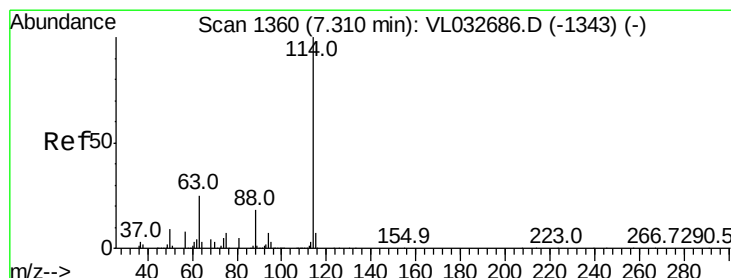
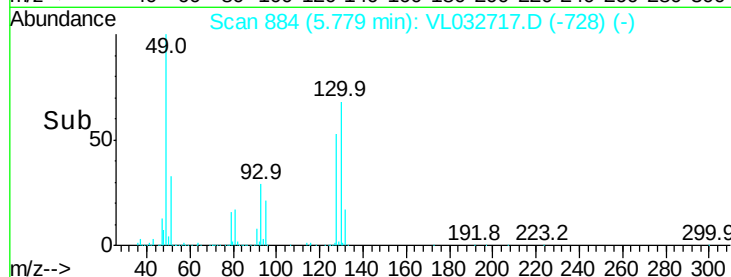
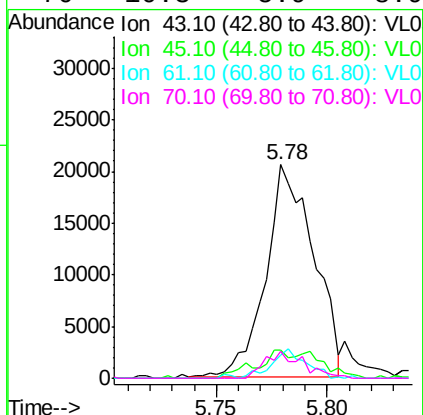
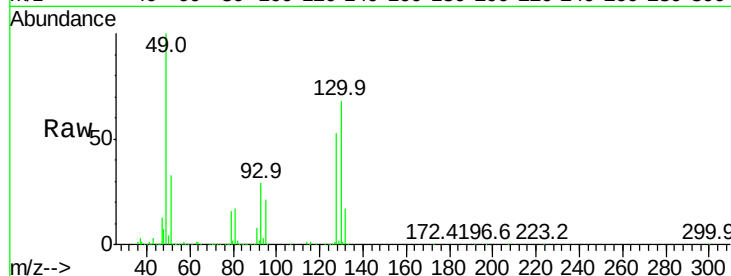




#25
Ethyl Acetate
Concen: 0.095 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL032717.D
Acq: 7 Nov 2018 14:58

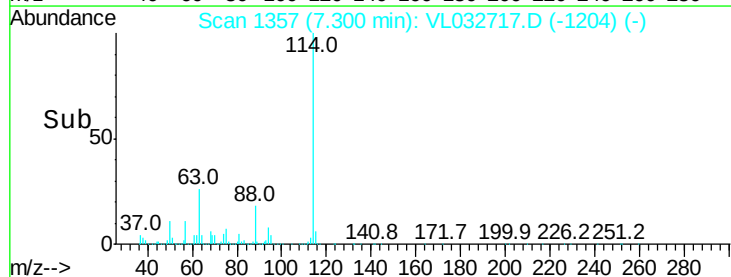
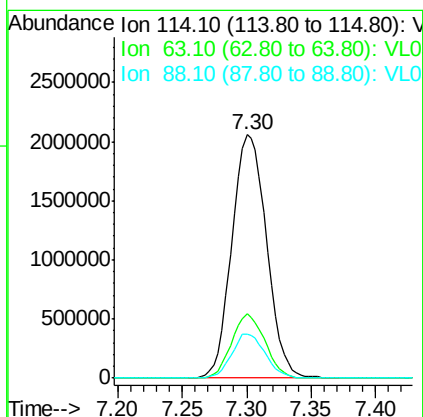
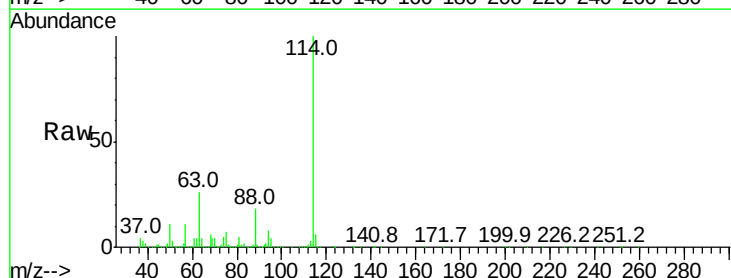
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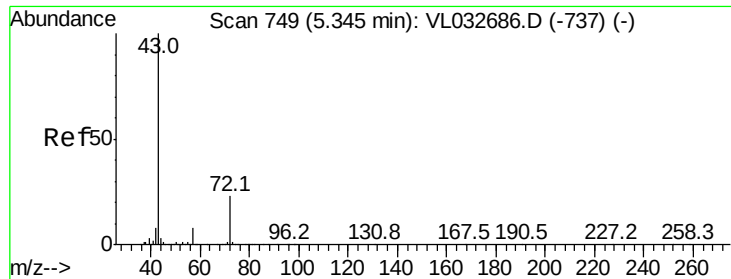
Tgt Ion:	43	Resp:	30912
Ion	Ratio	Lower	Upper
43	100		
45	17.5	8.0	12.0#
61	10.3	8.0	12.0
70	10.3	5.9	8.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.01 min
Lab File: VL032717.D
Acq: 7 Nov 2018 14:58

Tgt Ion:	114	Resp:	3853692
Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.7	32.5
88	17.6	14.9	22.3





#34

2-Butanone

Concen: 0.078 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.01 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

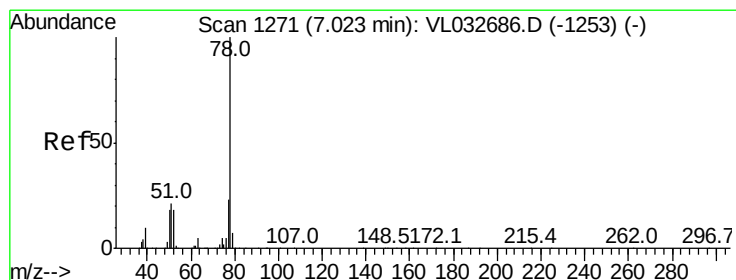
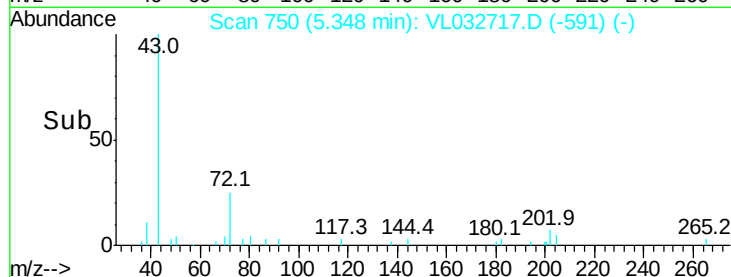
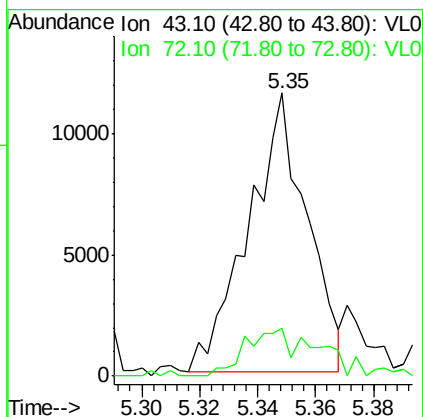
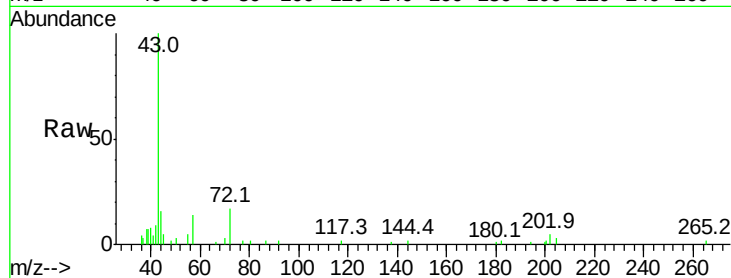
LIHA-IA-DUP-110118DL

Tgt Ion: 43 Resp: 16039

Ion Ratio Lower Upper

43 100

72 22.6 18.6 27.8



#36

Benzene

Concen: 0.034 ppbv

RT: 7.02 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

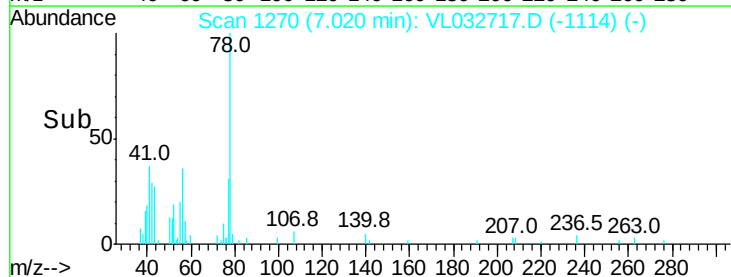
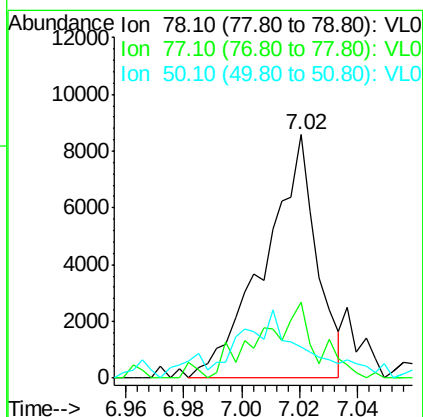
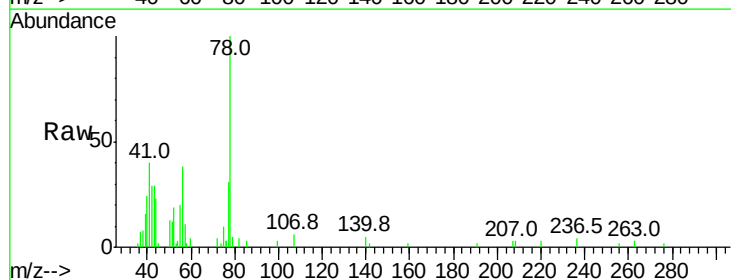
Tgt Ion: 78 Resp: 10689

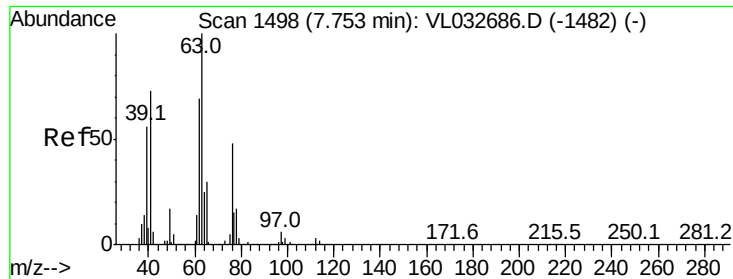
Ion Ratio Lower Upper

78 100

77 24.9 18.1 27.1

50 6.7 15.1 22.7#





#39

1,2-Dichloropropane

Concen: 8.074 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.45 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA-DUP-110118DL

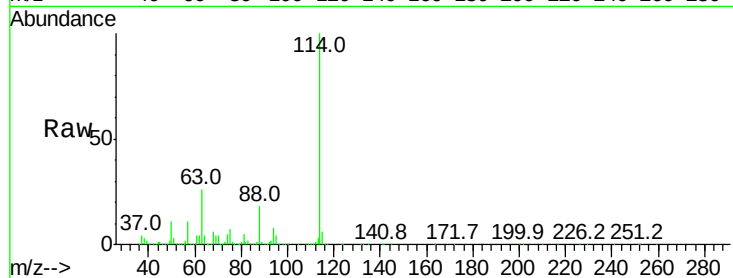
Tgt Ion: 63 Resp: 975698

Ion Ratio Lower Upper

63 100

41 0.0 56.2 84.4#

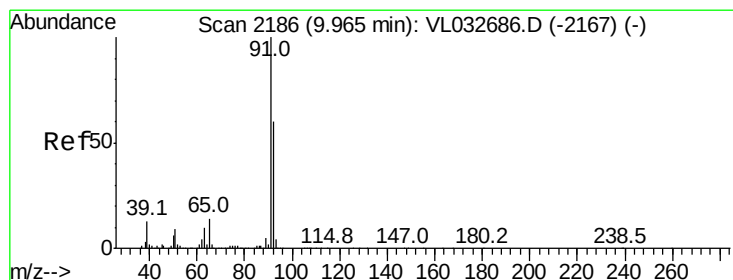
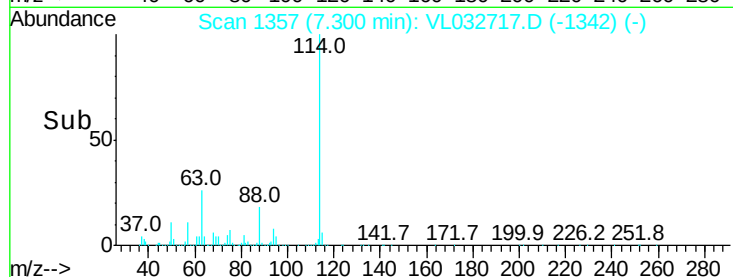
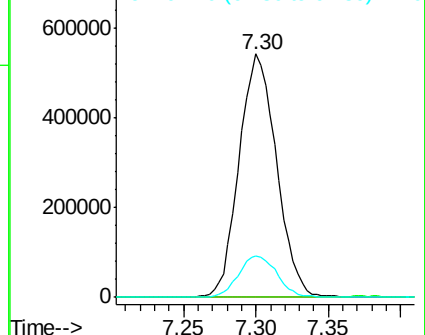
62 17.0 54.4 81.6#



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



#53

Toluene

Concen: 0.085 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL032717.D

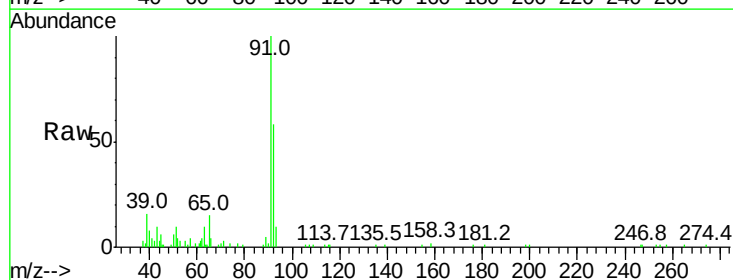
Acq: 7 Nov 2018 14:58

Tgt Ion: 91 Resp: 30639

Ion Ratio Lower Upper

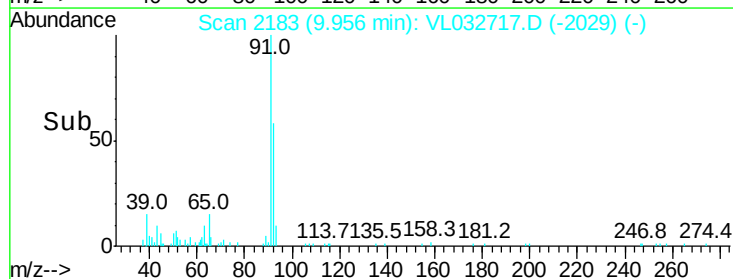
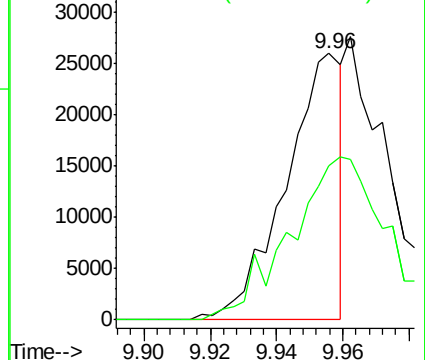
91 100

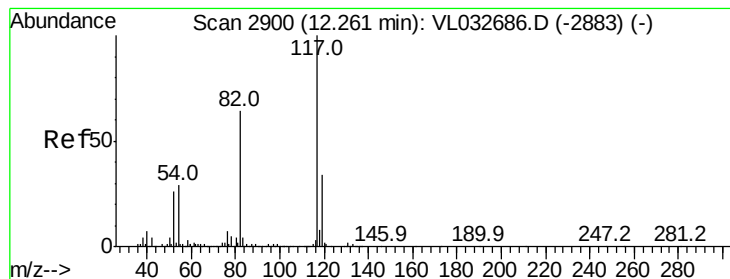
92 0.0 48.4 72.6#



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: 12.25 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA-DUP-110118DL

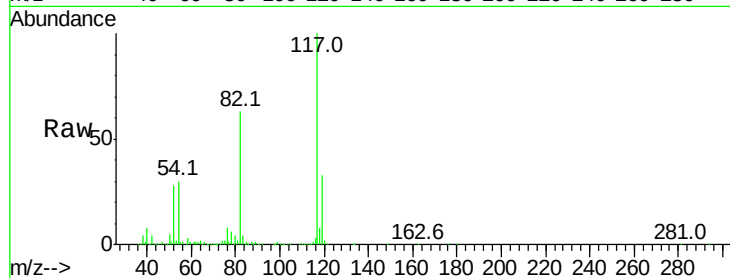
Tgt Ion:117 Resp: 3730304

Ion Ratio Lower Upper

117 100

82 64.5 52.7 79.1

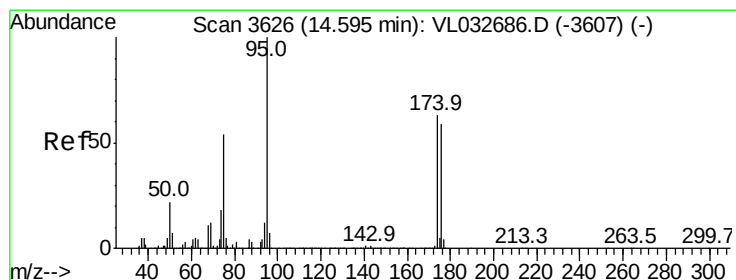
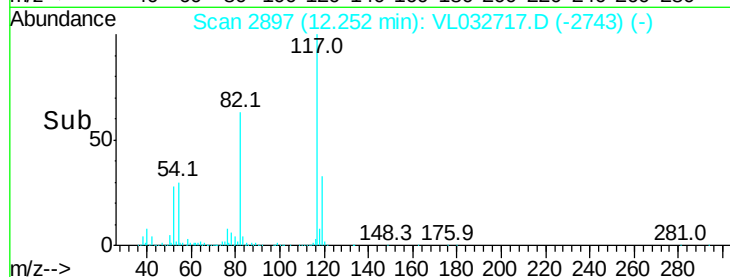
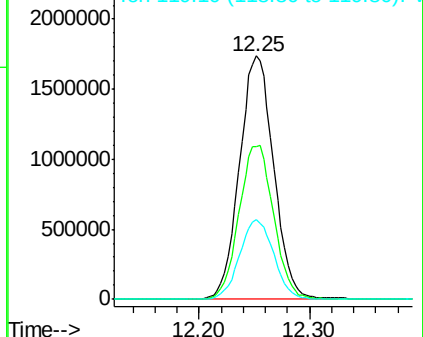
119 32.8 26.7 40.1



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: 10.162 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

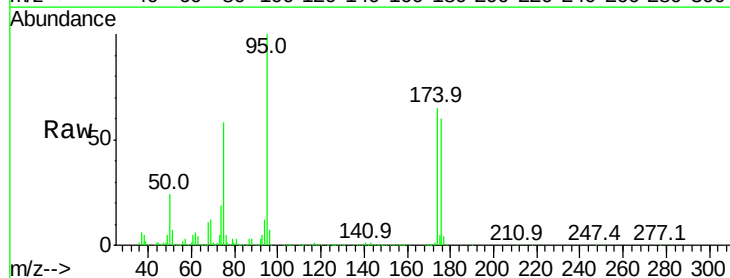
Tgt Ion: 95 Resp: 2822553

Ion Ratio Lower Upper

95 100

174 64.4 46.0 69.0

175 4.7 3.4 5.0



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

