

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\
 Data File : VL032034.D
 Acq On : 1 Jun 2018 23:34
 Operator : SY/AP
 Sample : J3193-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-052518DL

Quant Time: Jun 02 02:05:25 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:31:35 2018
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1275418	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2599883	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.36	117	2500988	10.00	ppbv	0.00

System Monitoring Compounds

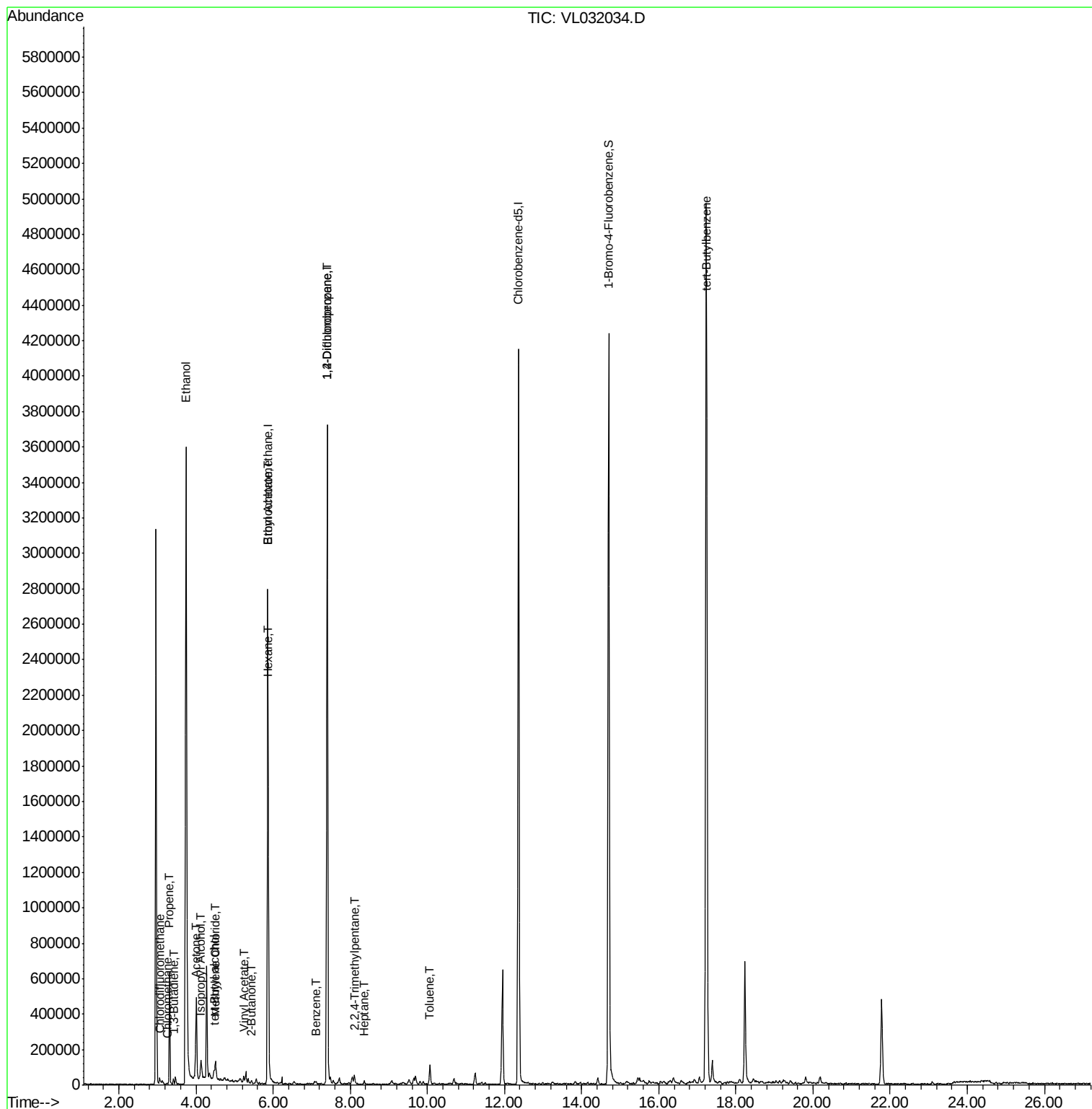
68) 1-Bromo-4-Fluorobenzene	14.70	95	1969008	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

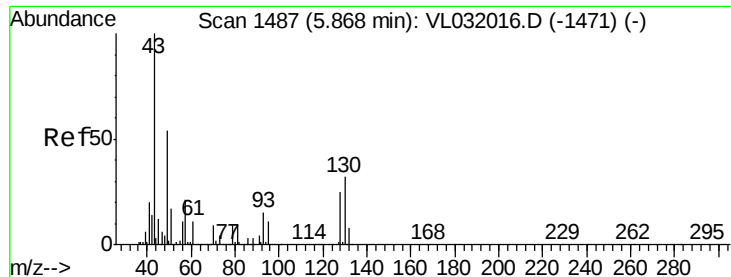
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.06	51	25613	0.21	ppbv #	67
4) Chloromethane	3.24	50	2585	0.04	ppbv #	81
9) Propene	3.31	41	181471	4.63	ppbv	90
10) Heptane	8.36	43	5186	0.04	ppbv #	26
13) Ethanol	3.74	45	4969491	324.52	ppbv	100
15) Acetone	3.99	43	315314	2.05	ppbv #	85
16) 1,3-Butadiene	3.41	39	5972	0.11	ppbv #	21
17) tert-Butyl alcohol	4.46	59	14721	0.20	ppbv #	72
19) Isopropyl Alcohol	4.13	45	132963	1.31	ppbv #	98
20) Methylene Chloride	4.50	84	22700	0.32	ppbv	91
23) Vinyl Acetate	5.25	43	8612	0.04	ppbv #	63
25) Ethyl Acetate	5.87	43	25650	0.08	ppbv #	66
26) Hexane	5.88	57	30701	0.22	ppbv #	79
34) 2-Butanone	5.43	43	7340	0.04	ppbv #	52
36) Benzene	7.12	78	6929	0.03	ppbv #	73
39) 1,2-Dichloropropane	7.40	63	671403	7.97	ppbv #	21
44) 2,2,4-Trimethylpentane	8.11	57	32055	0.08	ppbv #	71
53) Toluene	10.07	91	73348	0.29	ppbv	99
65) tert-Butylbenzene	17.23	119	58842	0.17	ppbv #	27

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

```
Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\  
Data File : VL032034.D  
Acq On    : 1 Jun 2018 23:34  
Operator  : SY/AP  
Sample    : J3193-01DL 10X  
Misc      : 400ml/MSVOA_L  
ALS Vial  : 1 Sample Multiplier: 1
```

Quant Time: Jun 02 02:05:25 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Jun 01 02:31:35 2018
QLast Update : Fri Jun 01 02:31:35 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VL032034.D

Acq: 1 Jun 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-052518DL

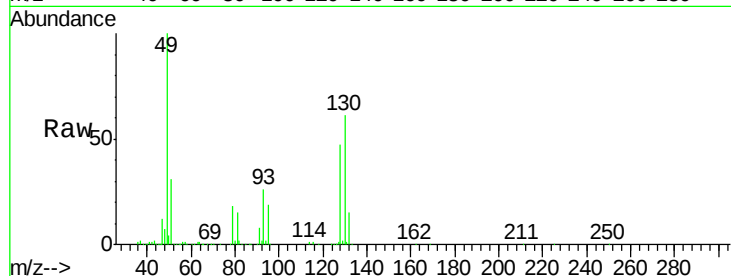
Tgt Ion: 49 Resp: 1275418

Ion Ratio Lower Upper

49 100

128 48.9 24.1 72.3

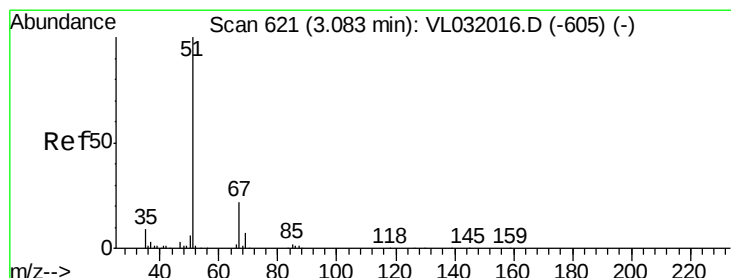
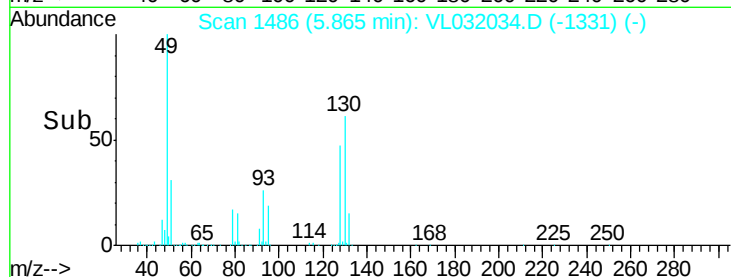
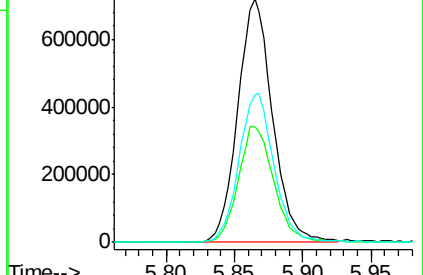
130 62.2 30.9 92.8



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



#3

Chlorodifluoromethane

Concen: 0.21 ppbv

RT: 3.06 min Scan# 613

Delta R.T. -0.03 min

Lab File: VL032034.D

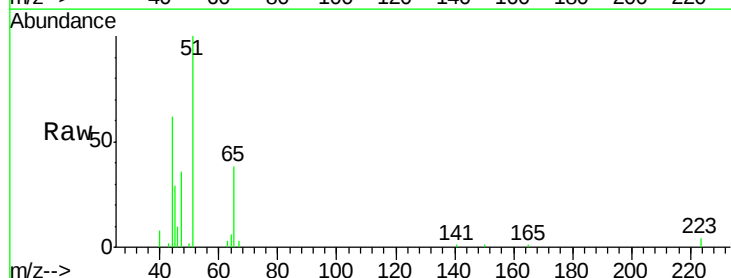
Acq: 1 Jun 2018 23:34

Tgt Ion: 51 Resp: 25613

Ion Ratio Lower Upper

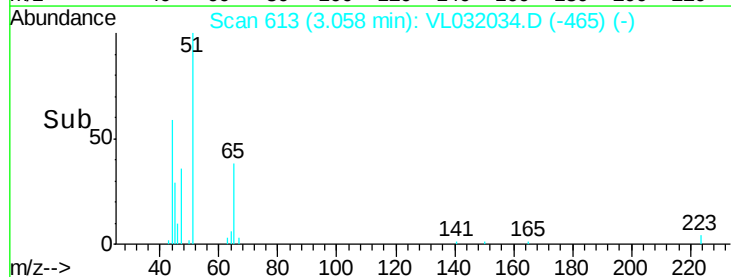
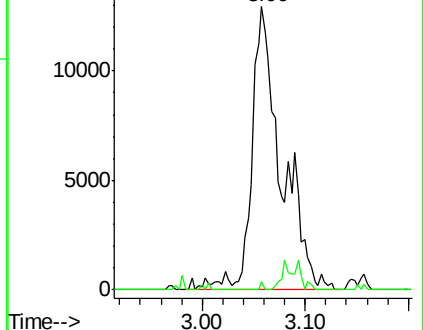
51 100

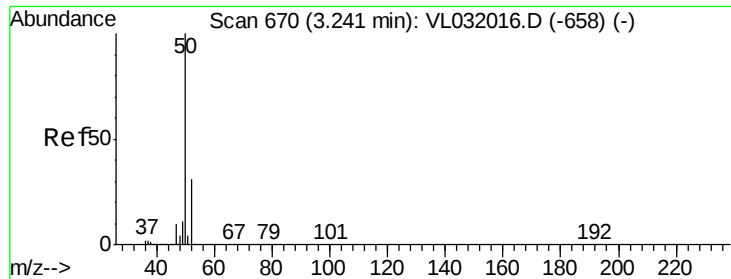
67 5.7 17.2 25.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.24 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL032034.D

Acq: 1 Jun 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

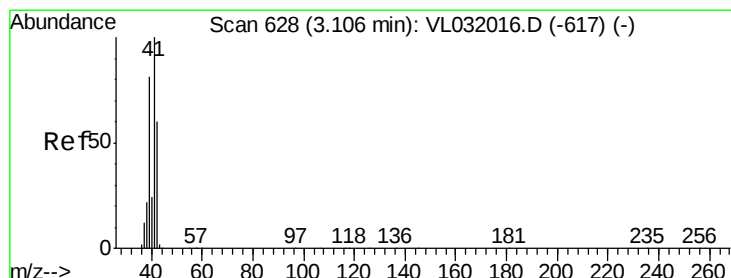
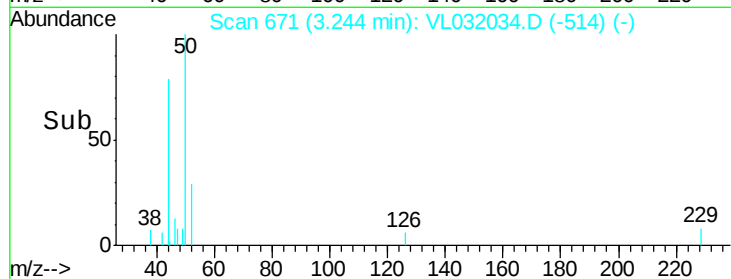
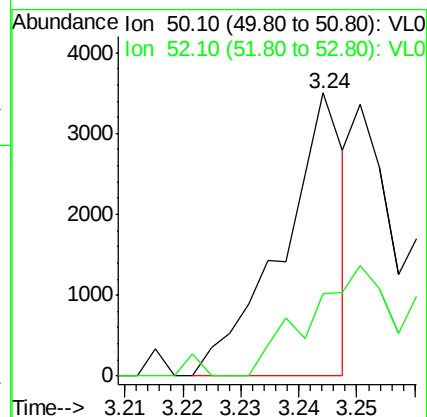
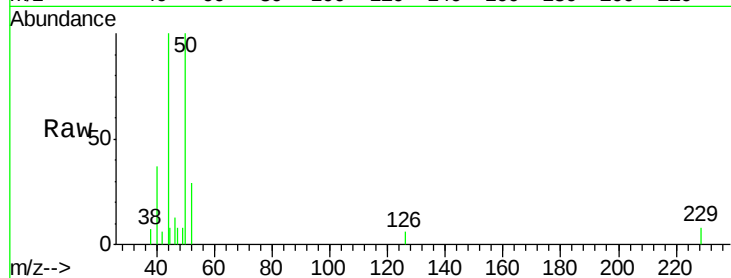
LIHA-IA1-052518DL

Tgt Ion: 50 Resp: 2585

Ion Ratio Lower Upper

50 100

52 20.9 25.0 37.6#



#9

Propene

Concen: 4.63 ppbv

RT: 3.31 min Scan# 692

Delta R.T. 0.21 min

Lab File: VL032034.D

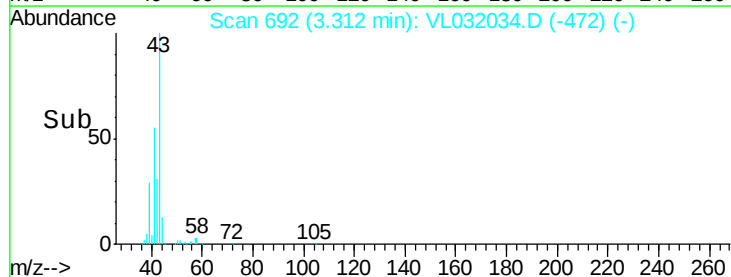
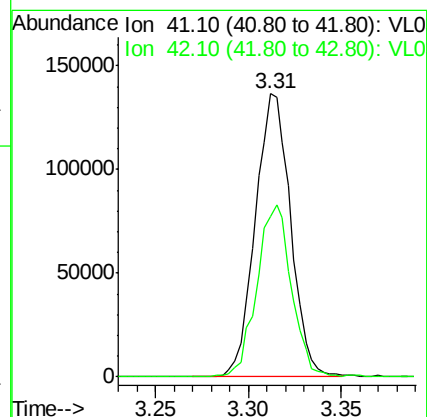
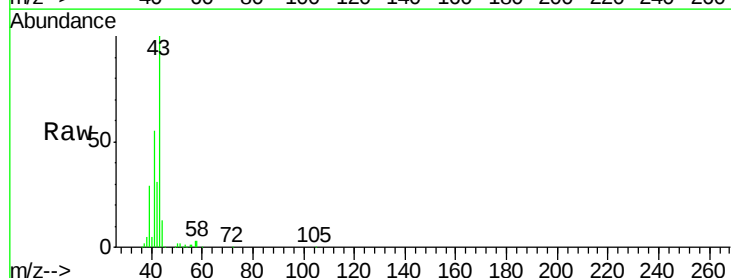
Acq: 1 Jun 2018 23:34

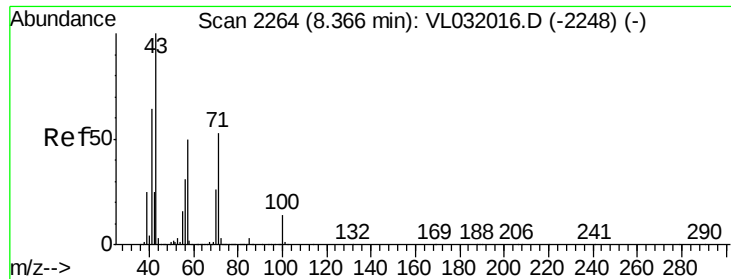
Tgt Ion: 41 Resp: 181471

Ion Ratio Lower Upper

41 100

42 60.0 54.4 81.6

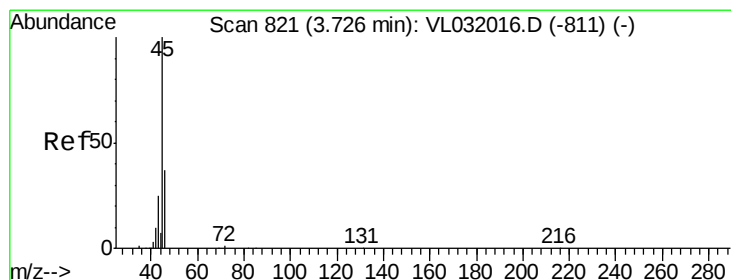
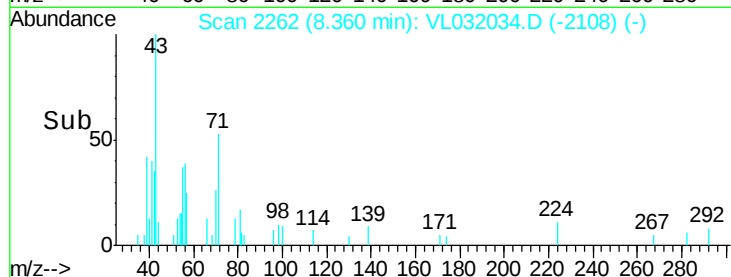
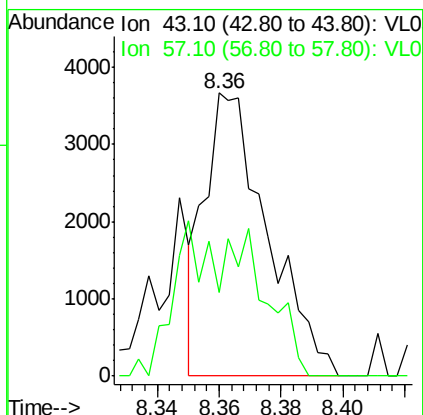
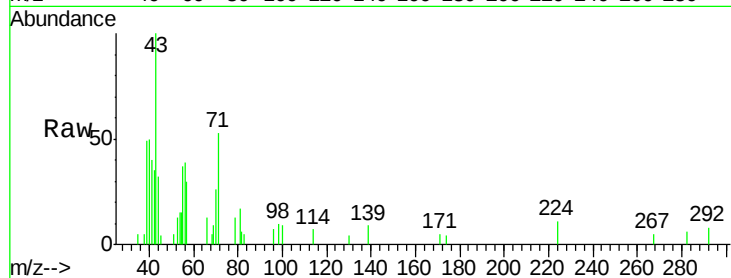




#10
Heptane
Concen: 0.04 ppbv
RT: 8.36 min Scan# 2262
Delta R.T. -0.01 min
Lab File: VL032034.D
Acq: 1 Jun 2018 23:34

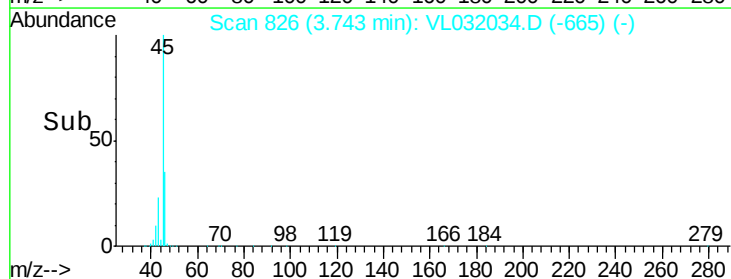
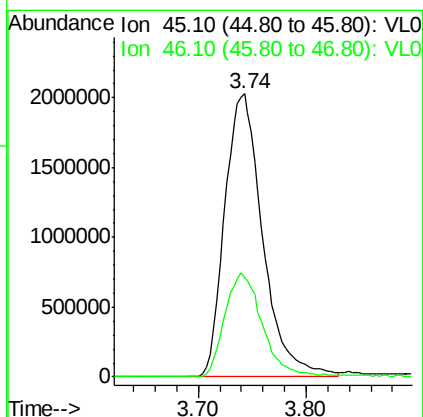
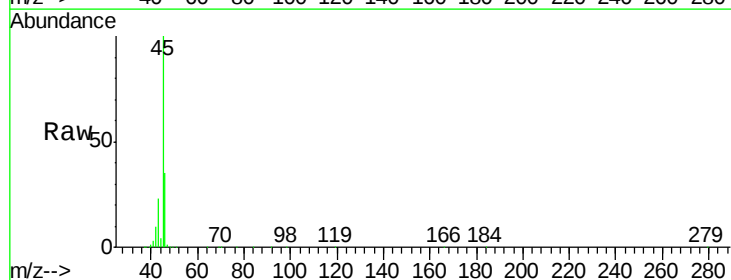
Instrument :
MSVOA_L
ClientSampleId :
LIHA-IA1-052518DL

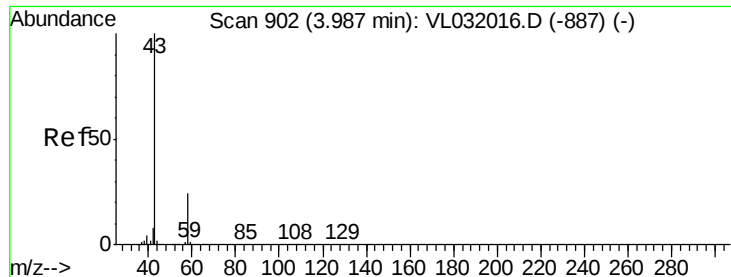
Tgt Ion: 43 Resp: 5186
Ion Ratio Lower Upper
43 100
57 0.0 41.7 62.5#



#13
Ethanol
Concen: 324.52 ppbv
RT: 3.74 min Scan# 826
Delta R.T. 0.02 min
Lab File: VL032034.D
Acq: 1 Jun 2018 23:34

Tgt Ion: 45 Resp: 4969491
Ion Ratio Lower Upper
45 100
46 37.1 14.9 59.5





#15

Acetone

Concen: 2.05 ppbv

RT: 3.99 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL032034.D

Acq: 1 Jun 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

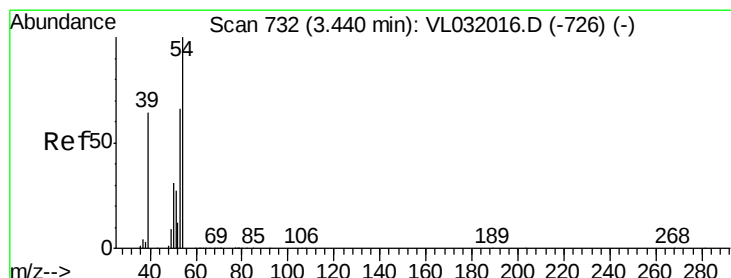
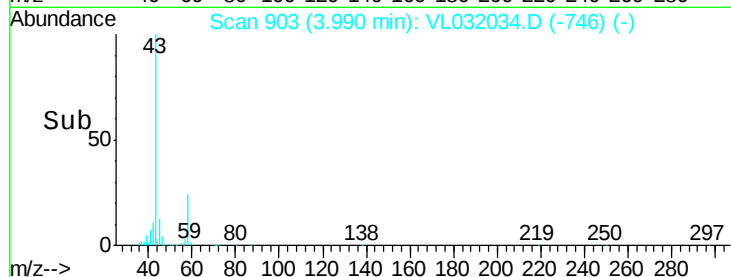
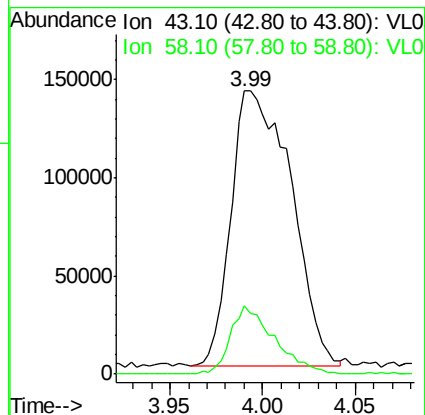
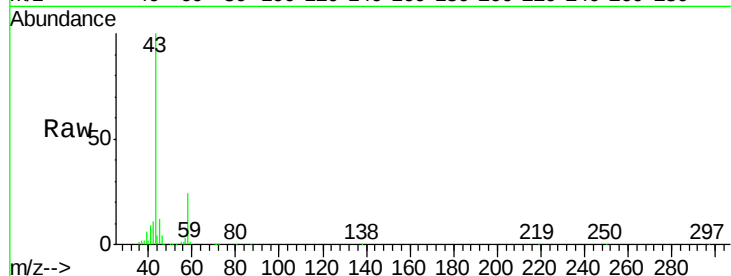
LIHA-IA1-052518DL

Tgt Ion: 43 Resp: 315314

Ion Ratio Lower Upper

43 100

58 18.3 20.7 31.1#



#16

1,3-Butadiene

Concen: 0.11 ppbv

RT: 3.41 min Scan# 724

Delta R.T. -0.03 min

Lab File: VL032034.D

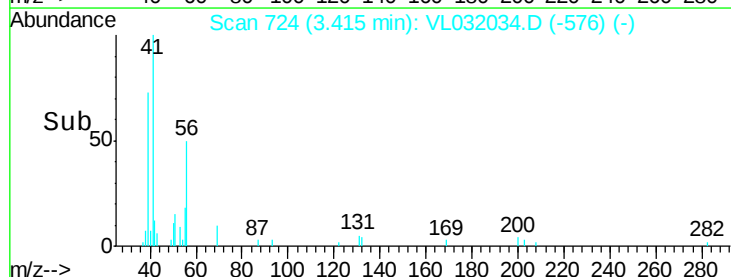
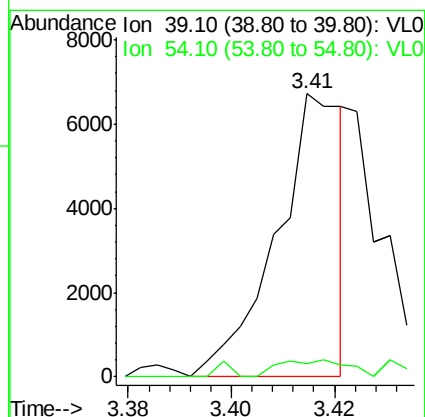
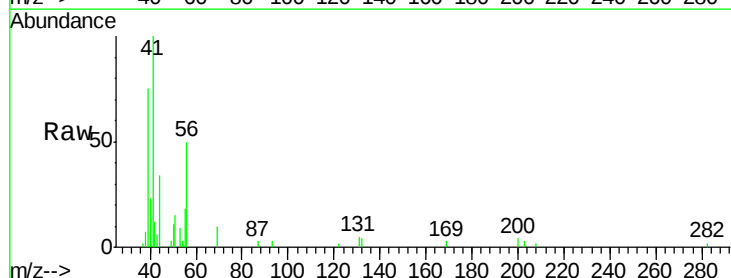
Acq: 1 Jun 2018 23:34

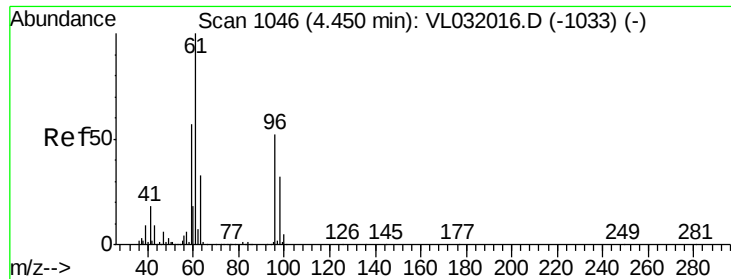
Tgt Ion: 39 Resp: 5972

Ion Ratio Lower Upper

39 100

54 11.0 65.7 98.5#

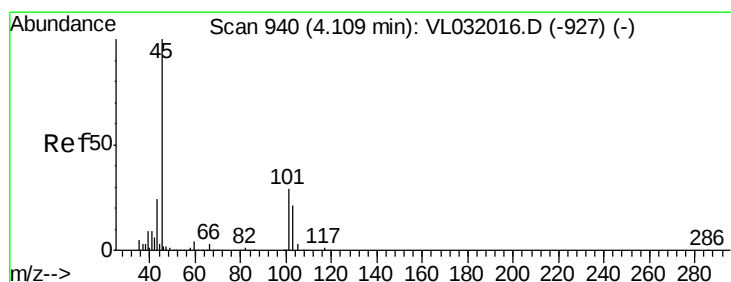
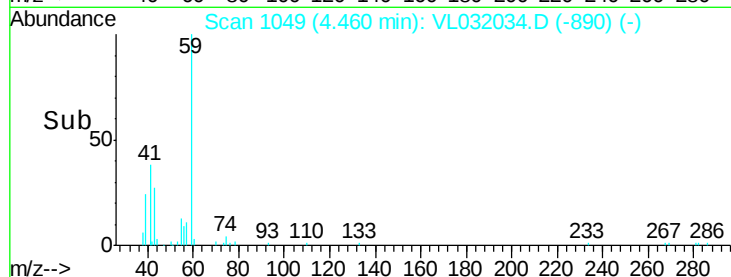
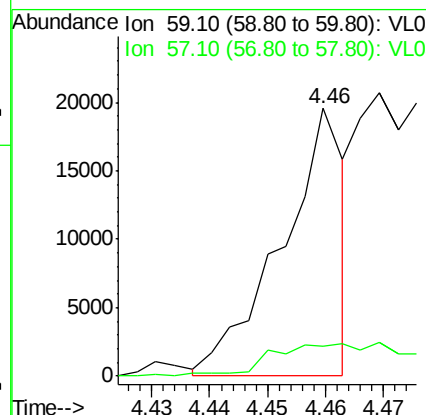
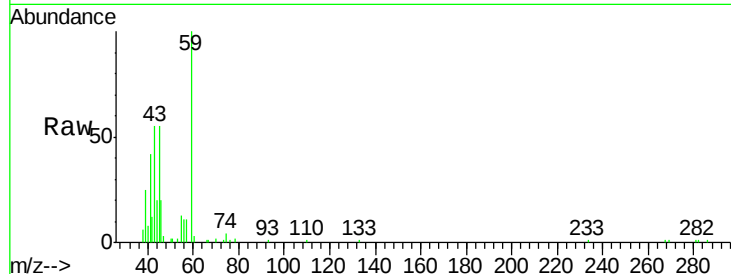




#17
 tert-Butyl alcohol
 Concen: 0.20 ppbv
 RT: 4.46 min Scan# 1049
 Delta R.T. 0.01 min
 Lab File: VL032034.D
 Acq: 1 Jun 2018 23:34

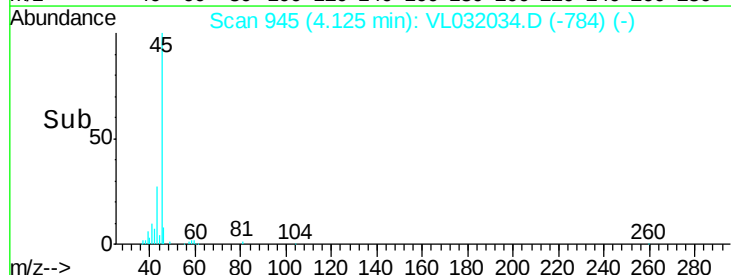
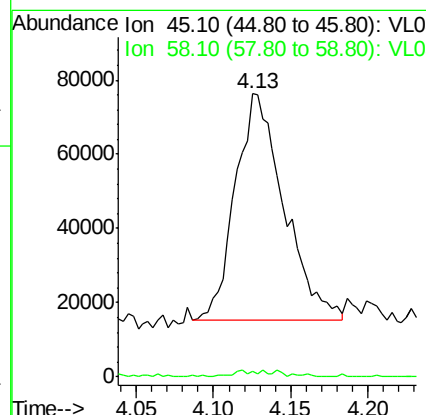
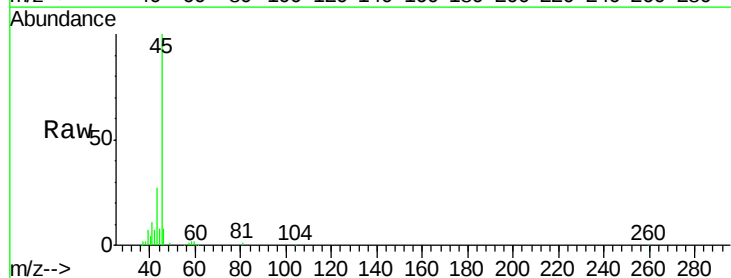
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-052518DL

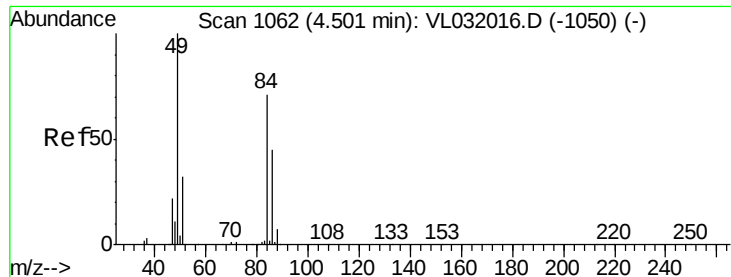
Tgt Ion: 59 Resp: 14721
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#



#19
 Isopropyl Alcohol
 Concen: 1.31 ppbv
 RT: 4.13 min Scan# 945
 Delta R.T. 0.02 min
 Lab File: VL032034.D
 Acq: 1 Jun 2018 23:34

Tgt Ion: 45 Resp: 132963
 Ion Ratio Lower Upper
 45 100
 58 2.8 1.5 2.3#

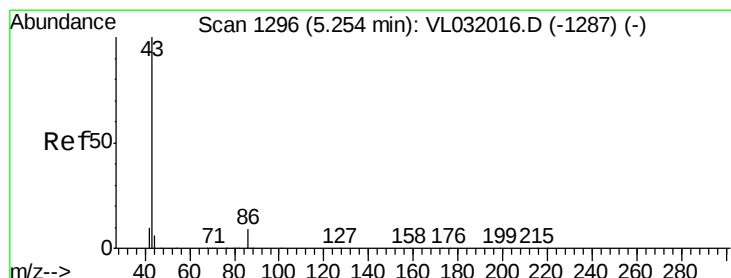
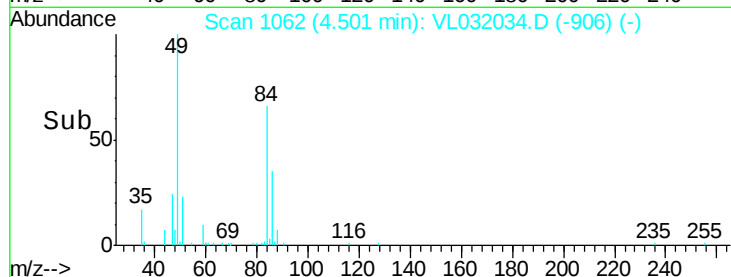
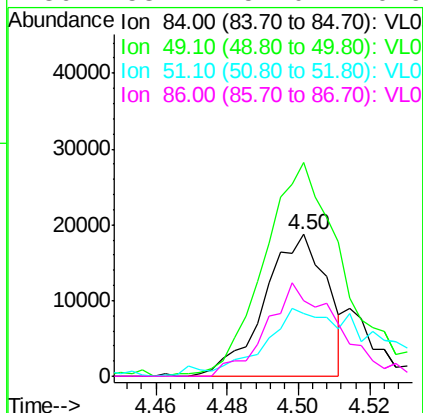
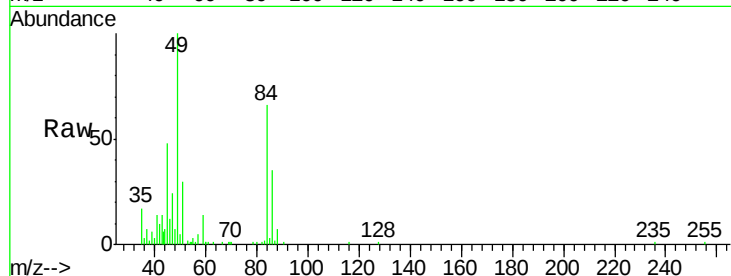




#20
Methylene Chloride
Concen: 0.32 ppbv
RT: 4.50 min Scan# 1062
Delta R.T. 0.00 min
Lab File: VL032034.D
Acq: 1 Jun 2018 23:34

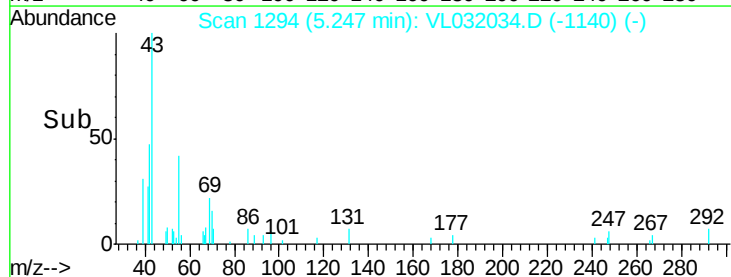
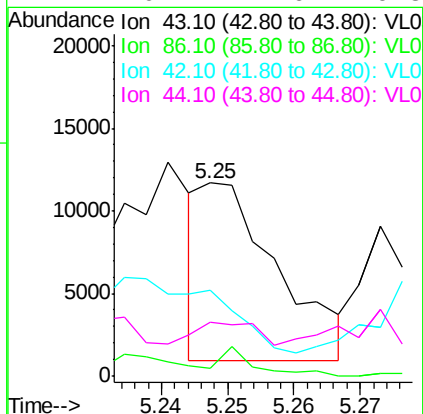
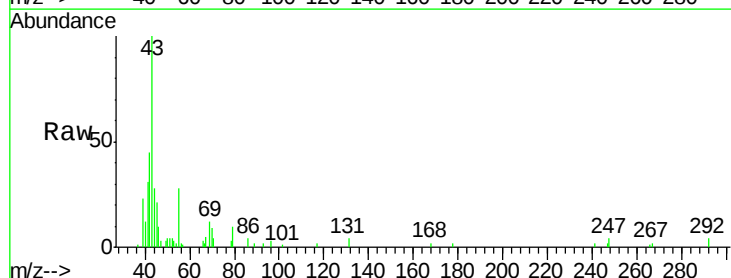
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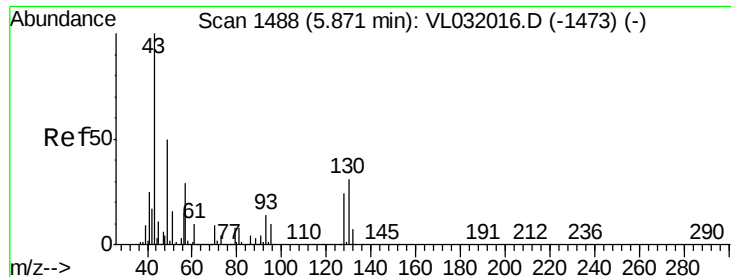
Tgt Ion: 84 Resp: 22700
Ion Ratio Lower Upper
84 100
49 149.0 113.0 169.4
51 37.1 36.4 54.6
86 53.1 51.0 76.6



#23
Vinyl Acetate
Concen: 0.04 ppbv
RT: 5.25 min Scan# 1294
Delta R.T. -0.01 min
Lab File: VL032034.D
Acq: 1 Jun 2018 23:34

Tgt Ion: 43 Resp: 8612
Ion Ratio Lower Upper
43 100
86 5.8 6.2 9.4#
42 37.7 8.7 13.1#
44 10.4 4.6 6.8#

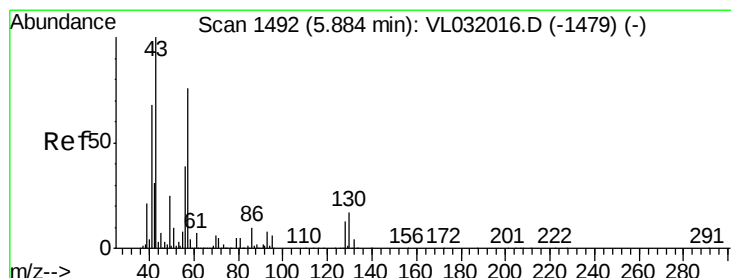
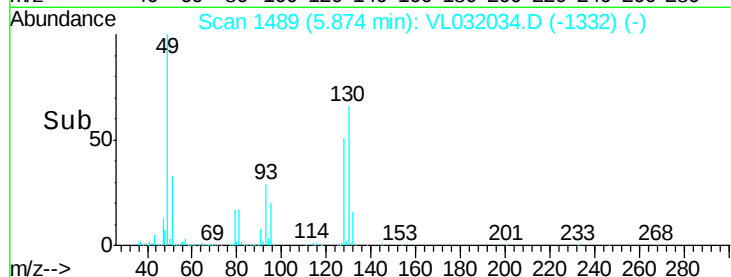
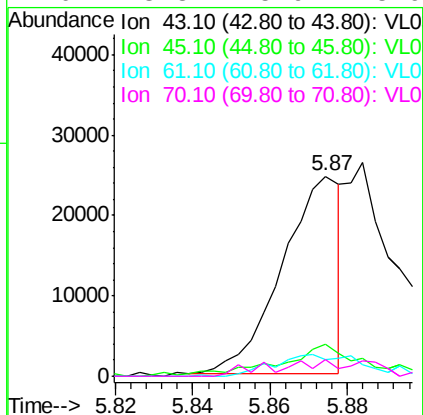
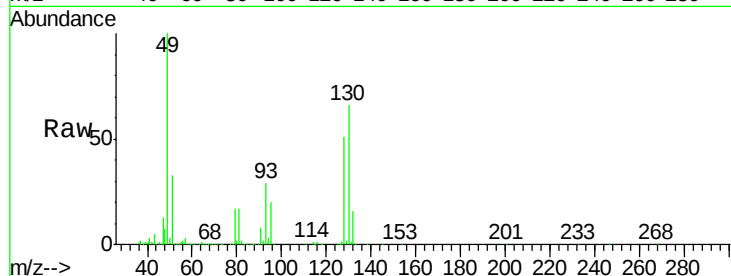




#25
Ethyl Acetate
Concen: 0.08 ppbv
RT: 5.87 min Scan# 1489
Delta R.T. 0.00 min
Lab File: VL032034.D
Acq: 1 Jun 2018 23:34

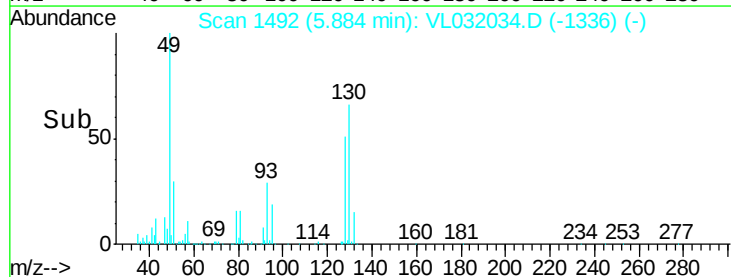
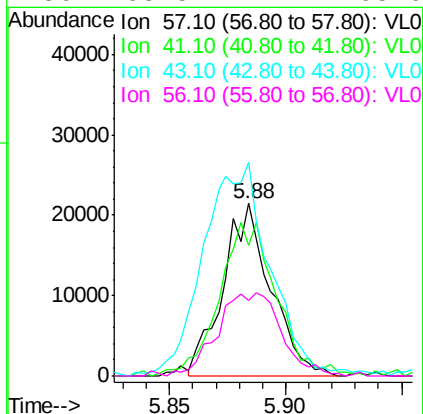
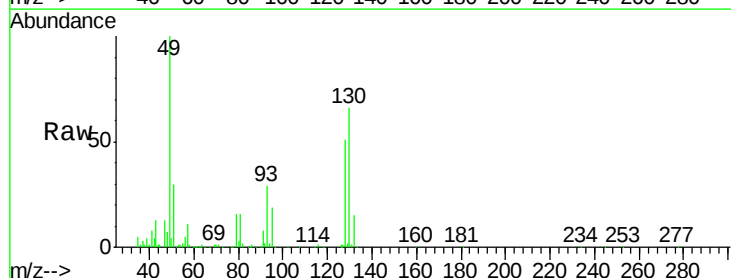
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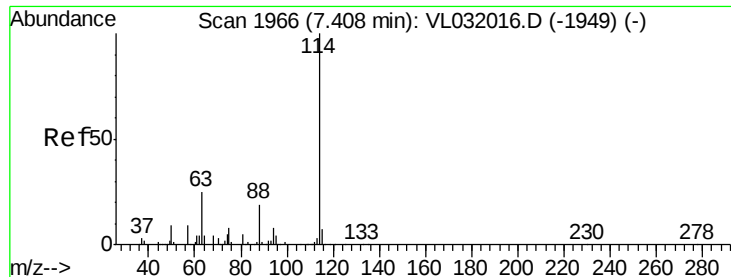
Tgt Ion:	43	Resp:	25650
Ion	Ratio	Lower	Upper
43	100		
45	29.8	7.8	11.6#
61	17.9	7.4	11.2#
70	13.8	5.9	8.9#



#26
Hexane
Concen: 0.22 ppbv
RT: 5.88 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VL032034.D
Acq: 1 Jun 2018 23:34

Tgt Ion:	57	Resp:	30701
Ion	Ratio	Lower	Upper
57	100		
41	108.2	71.4	107.2#
43	174.8	168.6	252.8
56	65.5	42.4	63.6#

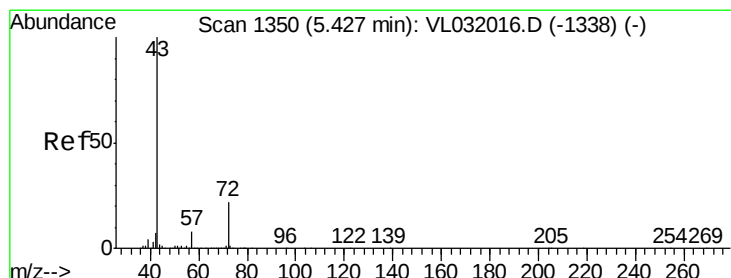
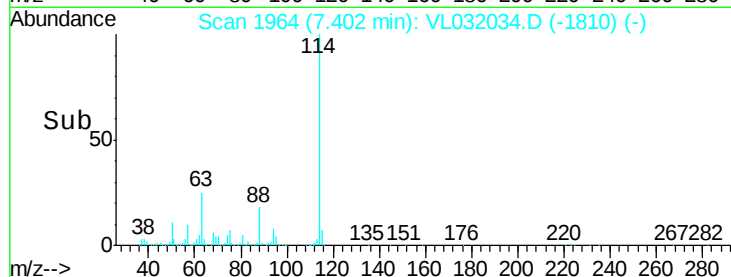
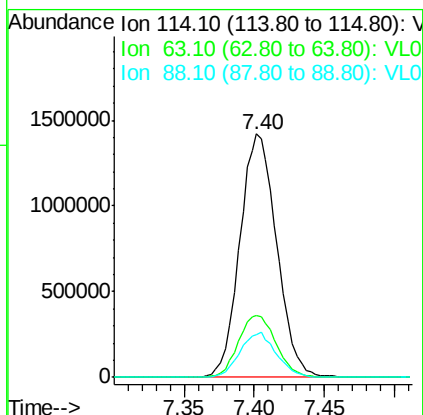
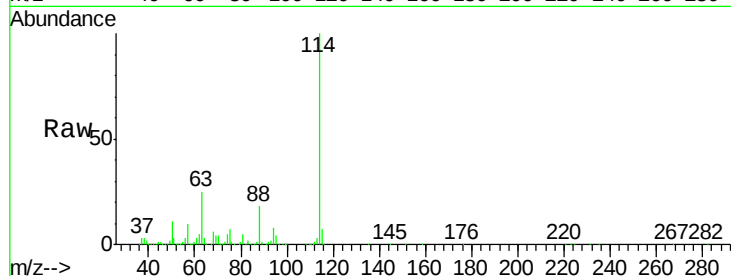




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.40 min Scan# 1964
 Delta R.T. -0.01 min
 Lab File: VL032034.D
 Acq: 1 Jun 2018 23:34

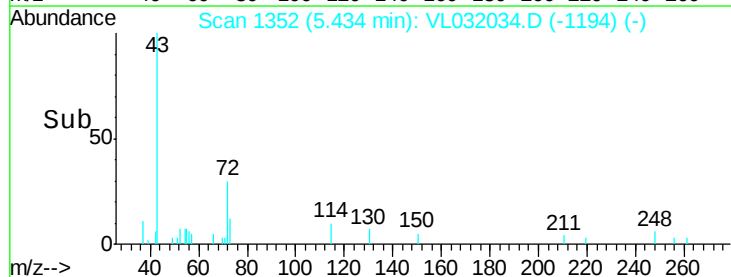
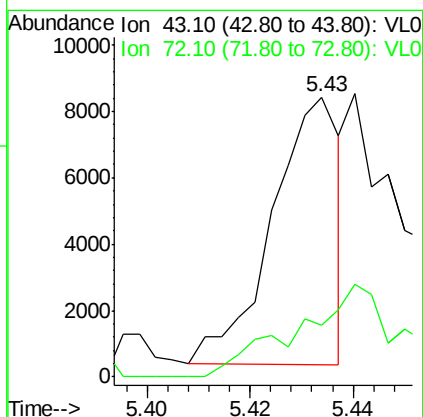
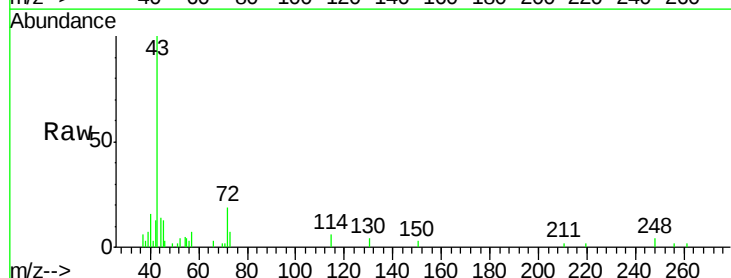
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-052518DL

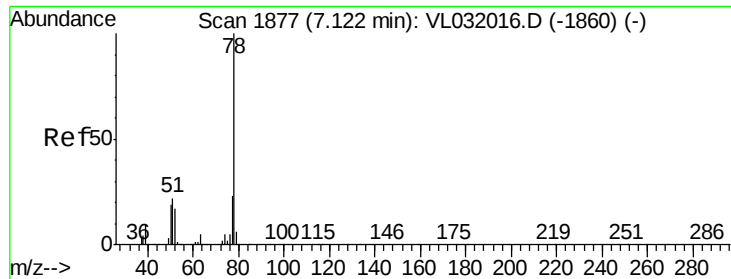
Tgt Ion:114 Resp: 2599883
 Ion Ratio Lower Upper
 114 100
 63 26.1 21.1 31.7
 88 18.3 14.8 22.2



#34
 2-Butanone
 Concen: 0.04 ppbv
 RT: 5.43 min Scan# 1352
 Delta R.T. 0.01 min
 Lab File: VL032034.D
 Acq: 1 Jun 2018 23:34

Tgt Ion: 43 Resp: 7340
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#





#36

Benzene

Concen: 0.03 ppbv

RT: 7.12 min Scan# 1876

Delta R.T. -0.00 min

Lab File: VL032034.D

Acq: 1 Jun 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-052518DL

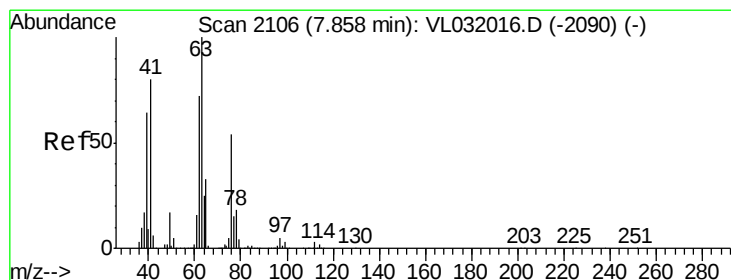
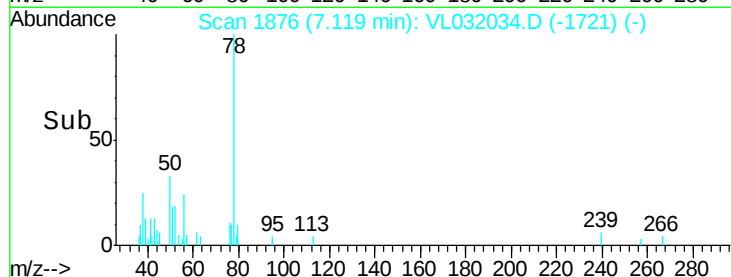
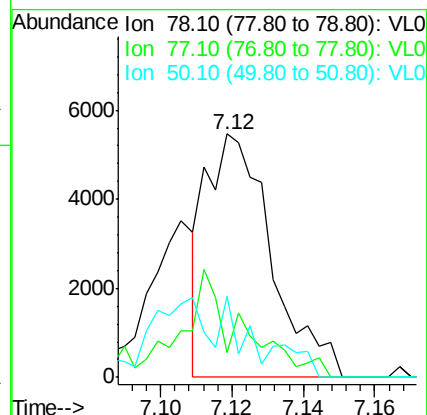
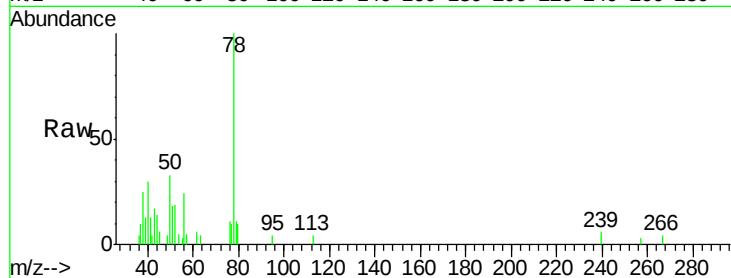
Tgt Ion: 78 Resp: 6929

Ion Ratio Lower Upper

78 100

77 9.3 18.1 27.1#

50 30.0 14.9 22.3#



#39

1,2-Dichloropropane

Concen: 7.97 ppbv

RT: 7.40 min Scan# 1964

Delta R.T. -0.46 min

Lab File: VL032034.D

Acq: 1 Jun 2018 23:34

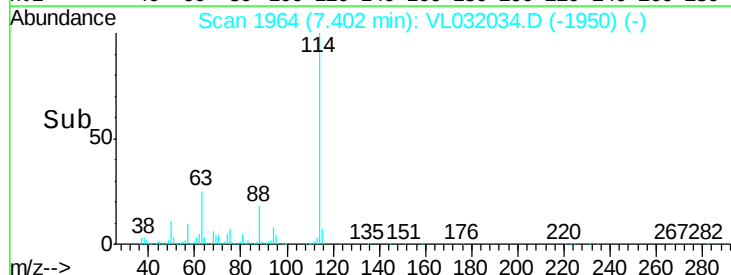
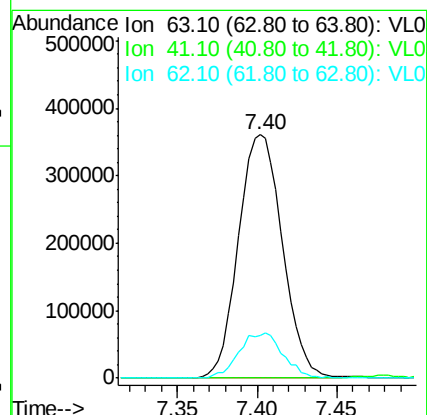
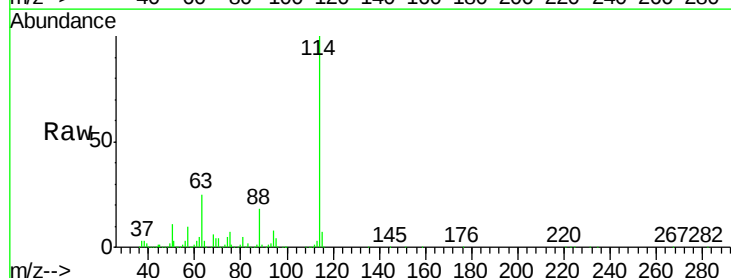
Tgt Ion: 63 Resp: 671403

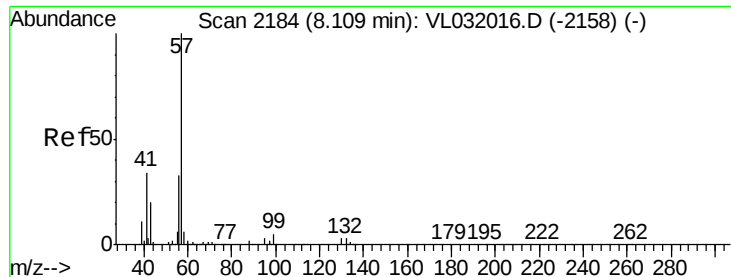
Ion Ratio Lower Upper

63 100

41 0.0 64.0 96.0#

62 17.8 57.6 86.4#

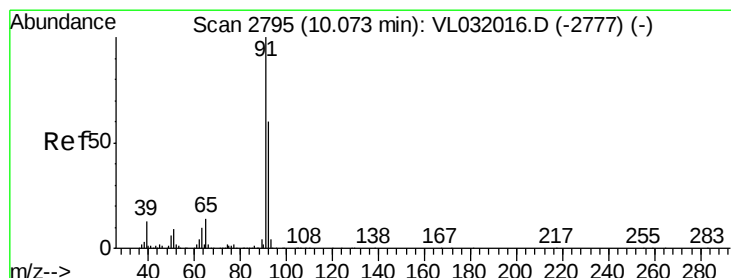
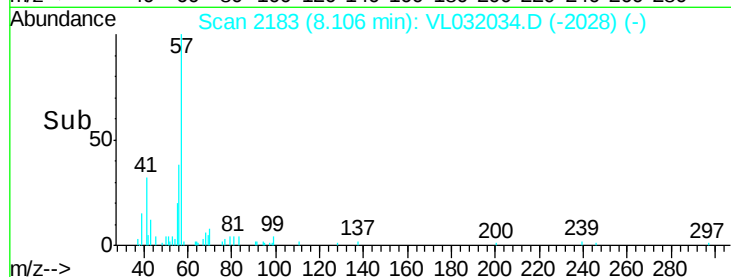
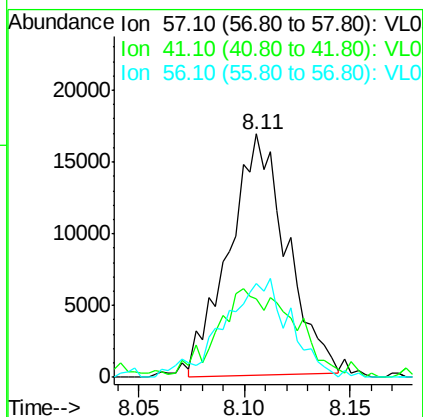
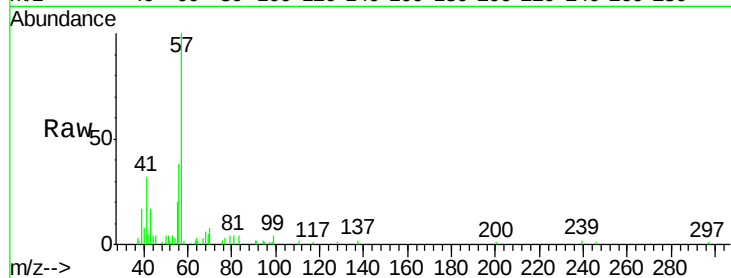




#44
 2,2,4-Trimethylpentane
 Concen: 0.08 ppbv
 RT: 8.11 min Scan# 2183
 Delta R.T. -0.00 min
 Lab File: VL032034.D
 Acq: 1 Jun 2018 23:34

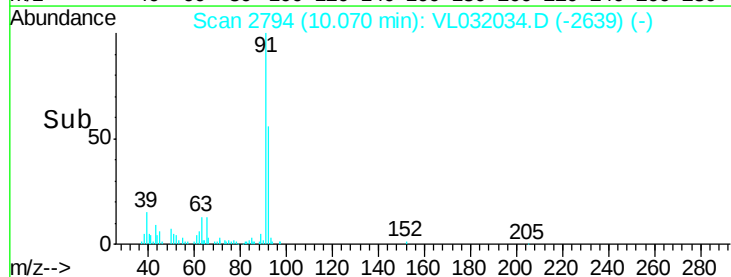
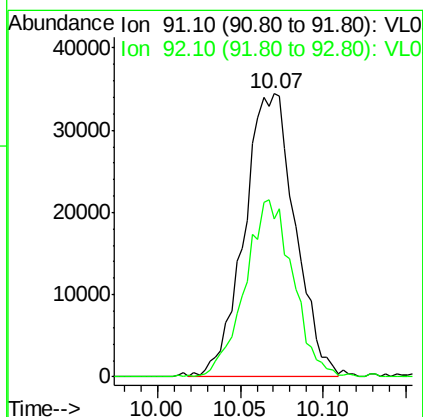
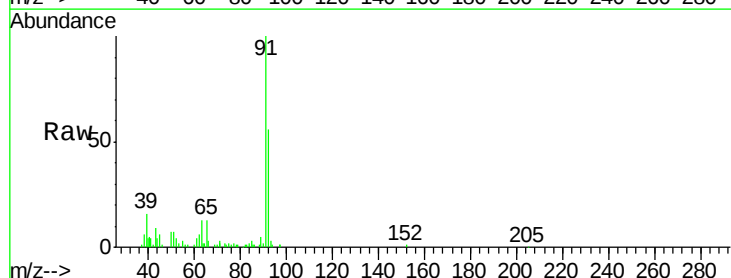
Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-052518DL

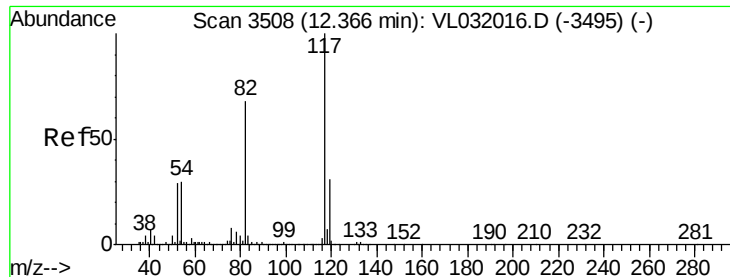
Tgt Ion: 57 Resp: 32055
 Ion Ratio Lower Upper
 57 100
 41 49.2 26.6 40.0#
 56 47.7 24.9 37.3#



#53
 Toluene
 Concen: 0.29 ppbv
 RT: 10.07 min Scan# 2794
 Delta R.T. -0.00 min
 Lab File: VL032034.D
 Acq: 1 Jun 2018 23:34

Tgt Ion: 91 Resp: 73348
 Ion Ratio Lower Upper
 91 100
 92 59.2 48.2 72.2





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.36 min Scan# 3507

Delta R.T. -0.00 min

Lab File: VL032034.D

Acq: 1 Jun 2018 23:34

Instrument :

MSVOA_L

ClientSampleId :

LIHA-IA1-052518DL

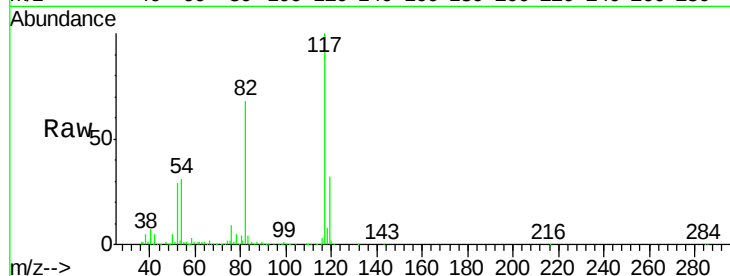
Tgt Ion:117 Resp: 2500988

Ion Ratio Lower Upper

117 100

82 68.5 52.7 79.1

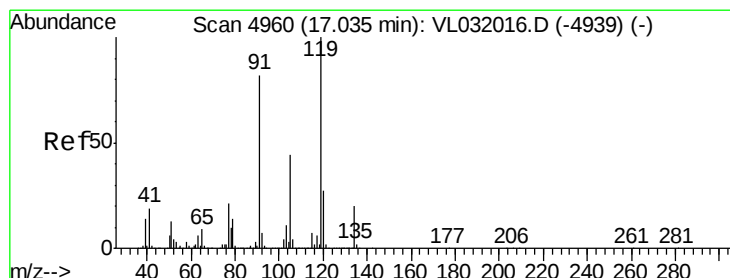
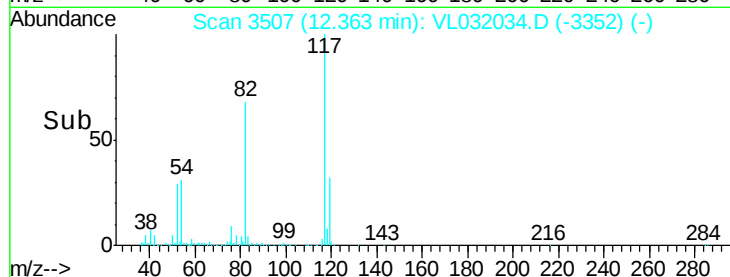
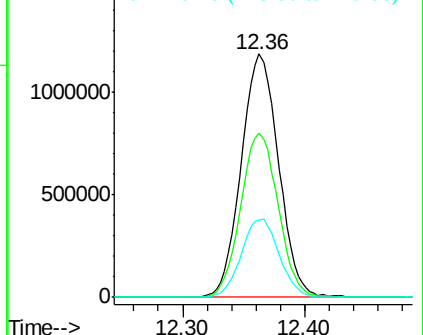
119 32.8 25.5 38.3



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



#65

tert-Butylbenzene

Concen: 0.17 ppbv

RT: 17.23 min Scan# 5021

Delta R.T. 0.20 min

Lab File: VL032034.D

Acq: 1 Jun 2018 23:34

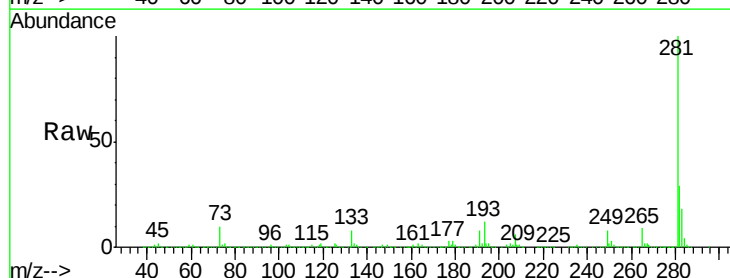
Tgt Ion:119 Resp: 58842

Ion Ratio Lower Upper

119 100

91 6.4 68.2 102.4#

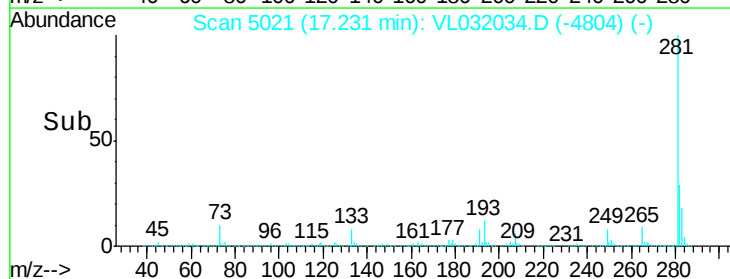
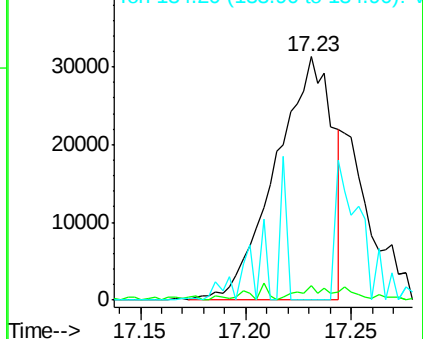
134 26.3 15.6 23.4#

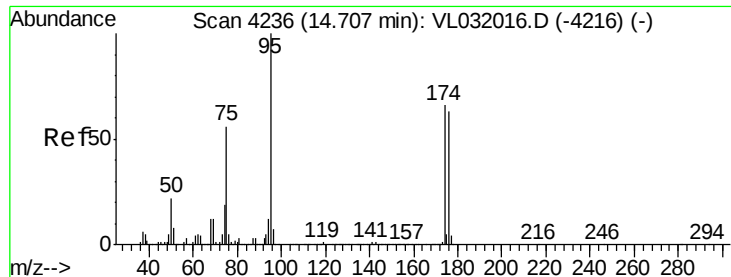


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.19 ppbv
 RT: 14.70 min Scan# 4233
 Delta R.T. -0.01 min
 Lab File: VL032034.D
 Acq: 1 Jun 2018 23:34

Instrument :
 MSVOA_L
 ClientSampleId :
 LIHA-IA1-052518DL

Tgt Ion: 95 Resp: 1969008
 Ion Ratio Lower Upper
 95 100
 174 66.9 53.2 79.8
 175 4.9 3.7 5.5

