

Data File : VL034727.D
Acq On : 28 Feb 2020 3:14
Operator : SY/AP
Sample : L1661-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-4-STORAGE-ROOM-NEXT-TO-C

Quant Time: Feb 28 03:48:07 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1143921	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2374878	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2339932	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1926556	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

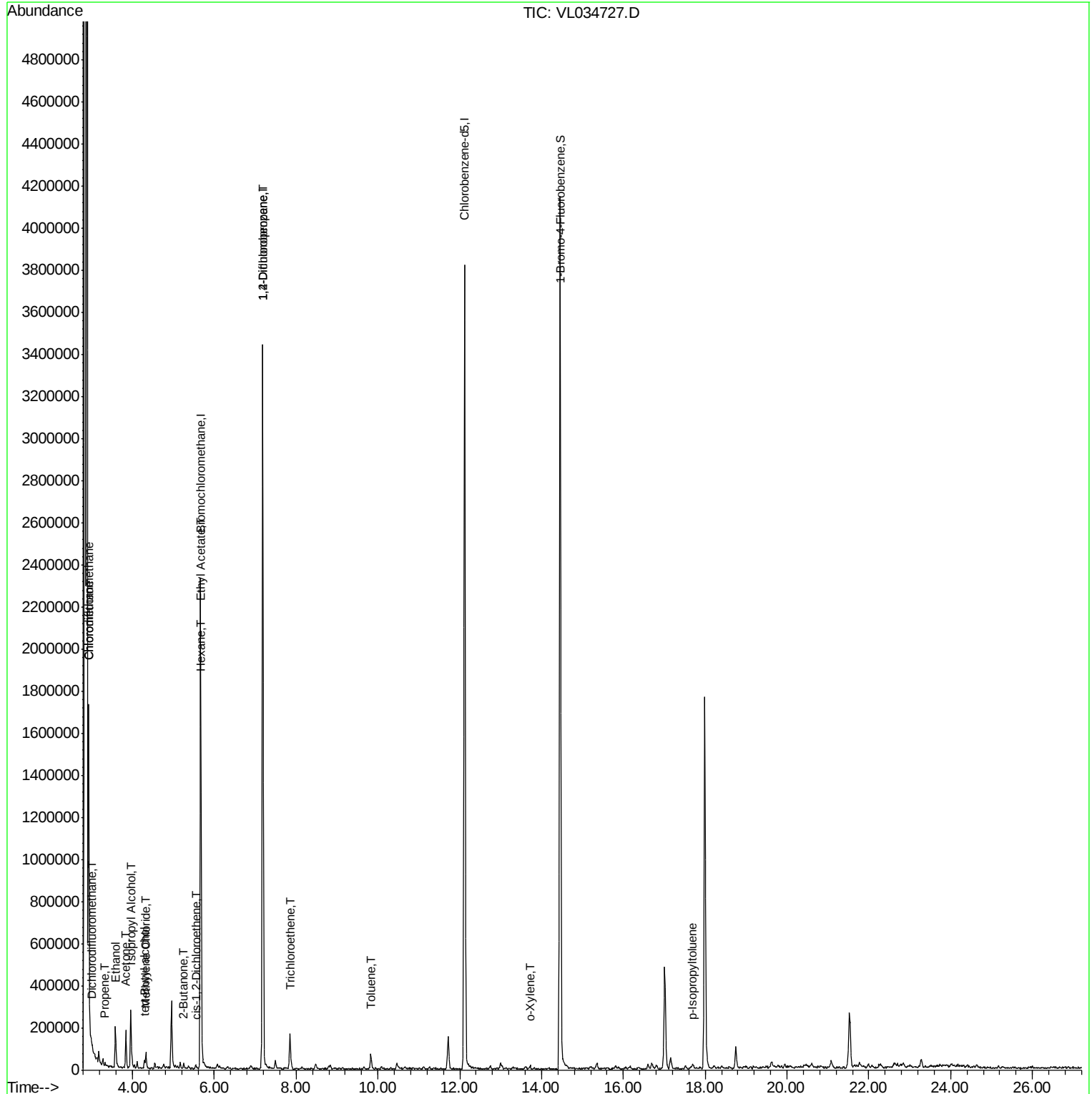
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	12049	0.067	ppbv	98
3) Chlorodifluoromethane	2.93	51	904886	7.330	ppbv #	58
4) Chloromethane	2.93	50	7871	0.114	ppbv #	1
9) Propene	3.33	41	2488	0.048	ppbv	92
13) Ethanol	3.58	45	194283	11.918	ppbv	97
15) Acetone	3.84	43	166679	1.279	ppbv	94
17) tert-Butyl alcohol	4.29	59	19373	0.194	ppbv #	71
19) Isopropyl Alcohol	3.96	45	297647	3.834	ppbv	100
20) Methylene Chloride	4.33	84	23130	0.477	ppbv #	82
25) Ethyl Acetate	5.68	43	9373	0.041	ppbv #	78
26) Hexane	5.68	57	11771	0.111	ppbv #	55
31) cis-1,2-Dichloroethene	5.54	61	4699	0.045	ppbv #	77
34) 2-Butanone	5.25	43	19754	0.132	ppbv	94
38) Trichloroethene	7.85	130	46392	0.587	ppbv	98
39) 1,2-Dichloropropane	7.19	63	658204	8.066	ppbv #	23
53) Toluene	9.83	91	21092	0.097	ppbv #	20
60) o-Xylene	13.73	91	5010	0.020	ppbv #	32
69) p-Isopropyltoluene	17.70	119	8412	0.023	ppbv #	46

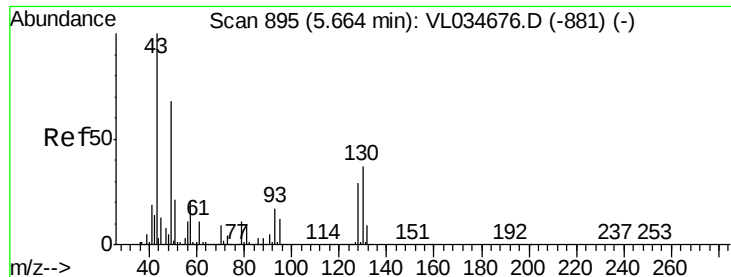
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

SG-4-STORAGE-ROOM-NEXT-TO-C

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

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ClientSampleId :

SG-4-STORAGE-ROOM-NEXT-TO-C

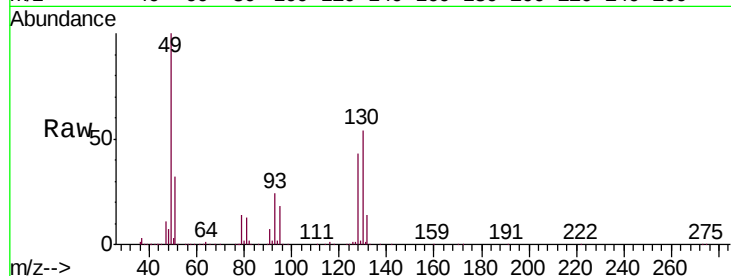
Tgt Ion: 49 Resp: 1143921

Ion Ratio Lower Upper

49 100

128 43.7 21.6 65.0

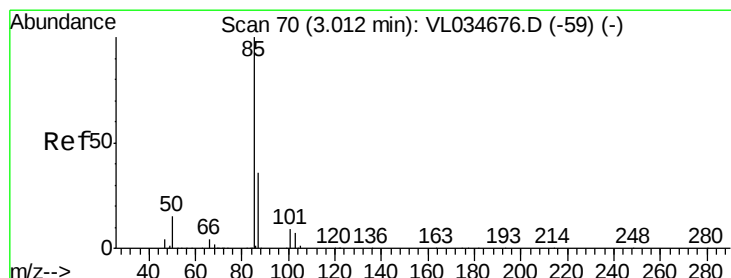
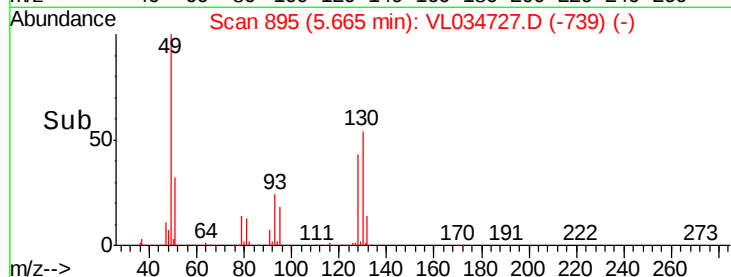
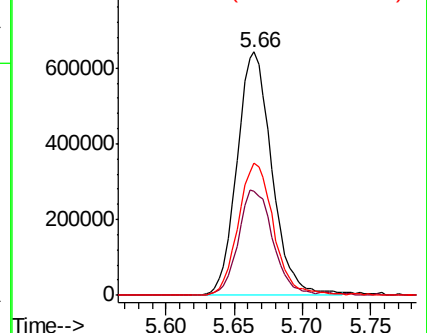
130 55.9 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.067 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034727.D

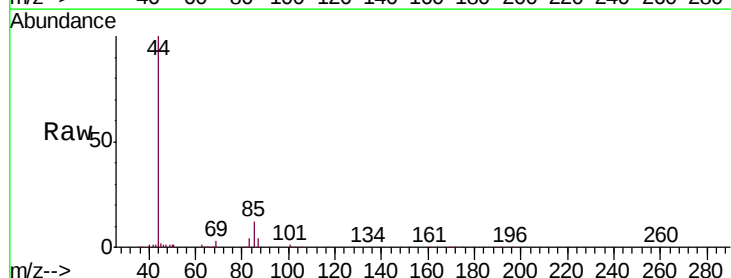
Acq: 28 Feb 2020 3:14

Tgt Ion: 85 Resp: 12049

Ion Ratio Lower Upper

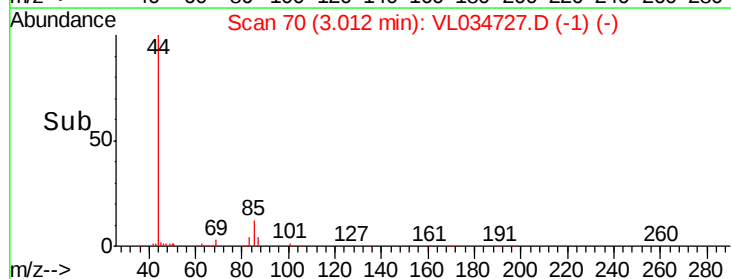
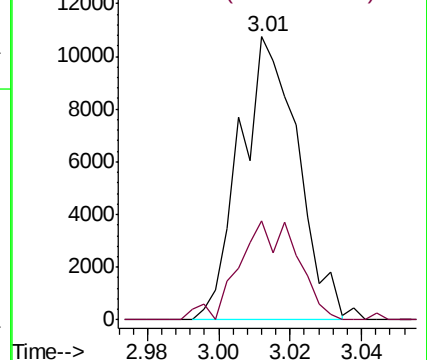
85 100

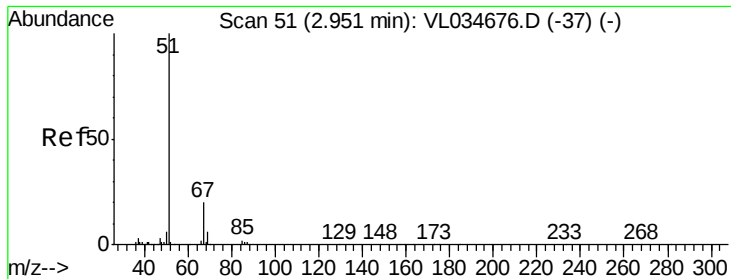
87 35.1 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.330 ppbv

RT: 2.93 min Scan# 44

Delta R.T. -0.02 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

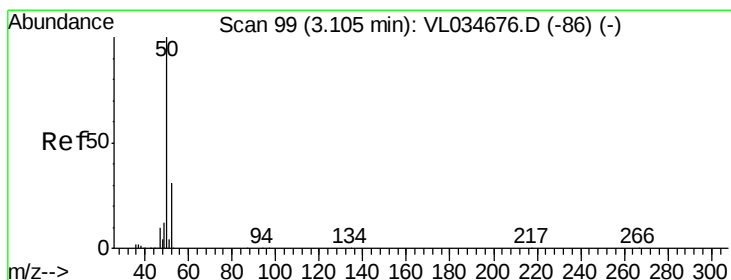
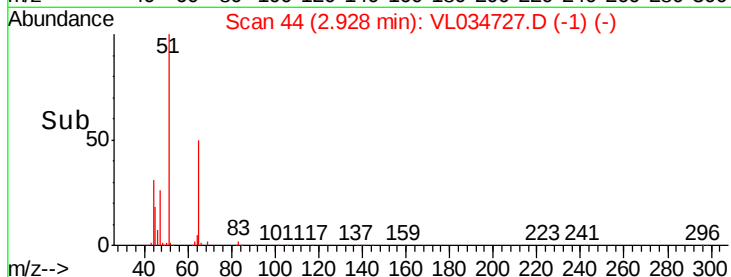
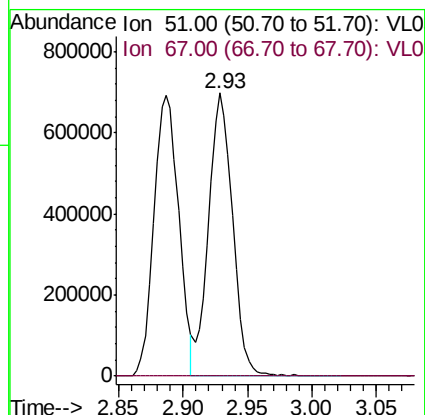
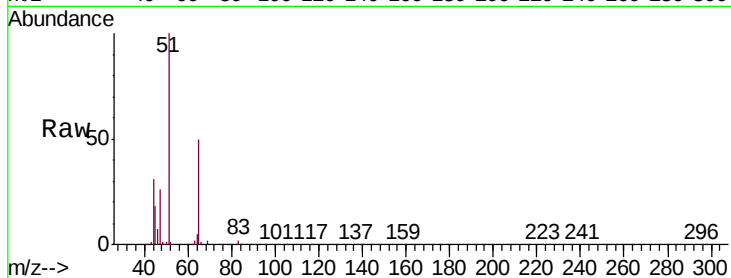
SG-4-STORAGE-ROOM-NEXT-TO-C

Tgt Ion: 51 Resp: 904886

Ion Ratio Lower Upper

51 100

67 0.1 15.5 23.3#



#4

Chloromethane

Concen: 0.114 ppbv

RT: 2.93 min Scan# 43

Delta R.T. -0.18 min

Lab File: VL034727.D

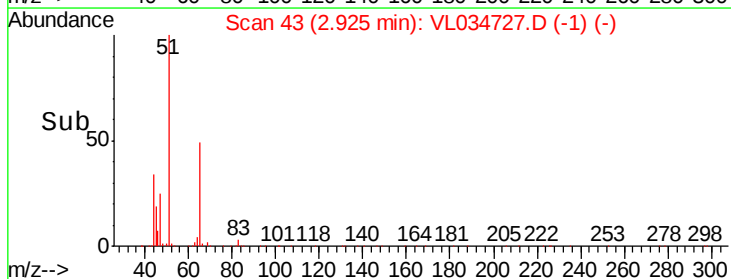
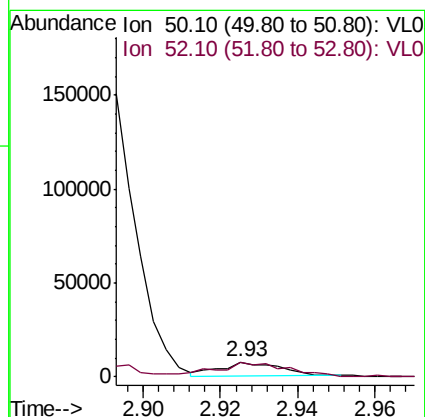
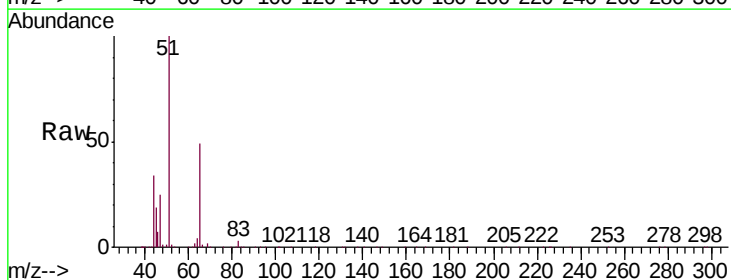
Acq: 28 Feb 2020 3:14

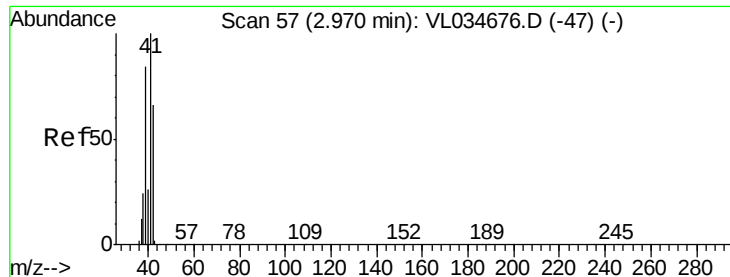
Tgt Ion: 50 Resp: 7871

Ion Ratio Lower Upper

50 100

52 108.8 25.0 37.4#





#9

Propene

Concen: 0.048 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.36 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

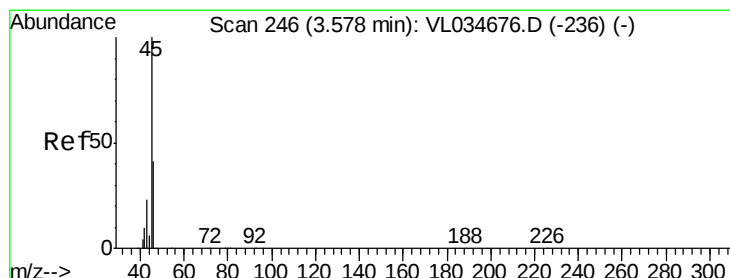
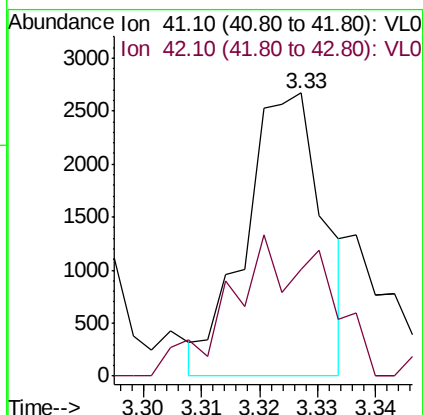
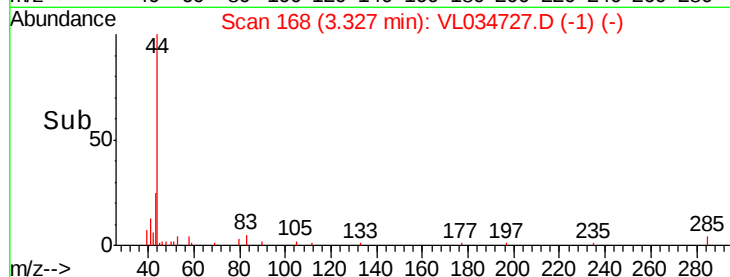
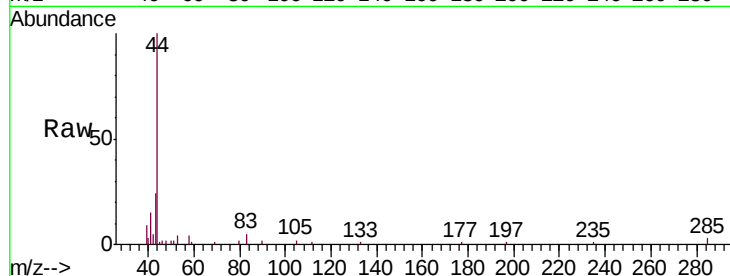
SG-4-STORAGE-ROOM-NEXT-TO-C

Tgt Ion: 41 Resp: 2488

Ion Ratio Lower Upper

41 100

42 61.9 54.9 82.3



#13

Ethanol

Concen: 11.918 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.00 min

Lab File: VL034727.D

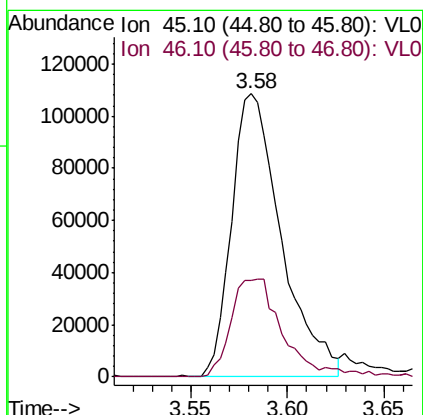
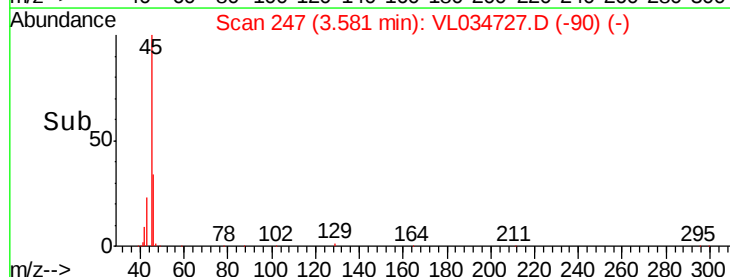
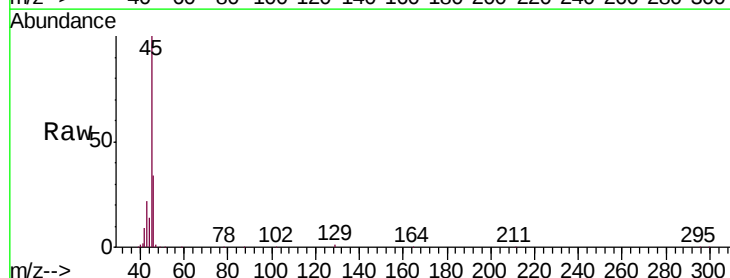
Acq: 28 Feb 2020 3:14

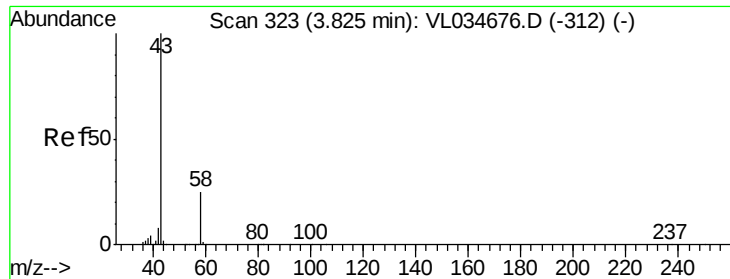
Tgt Ion: 45 Resp: 194283

Ion Ratio Lower Upper

45 100

46 36.6 15.4 61.4





#15

Acetone

Concen: 1.279 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.01 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

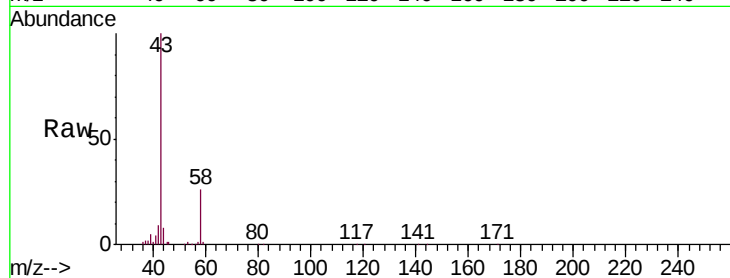
SG-4-STORAGE-ROOM-NEXT-TO-C

Tgt Ion: 43 Resp: 166679

Ion Ratio Lower Upper

43 100

58 29.5 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

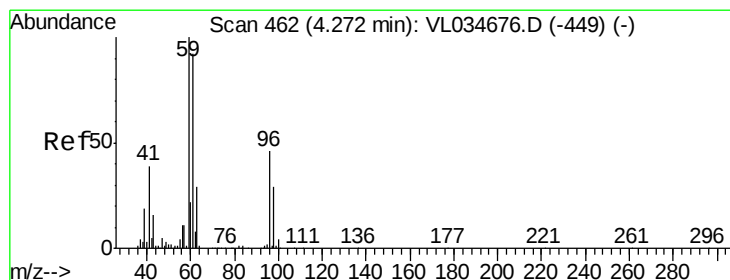
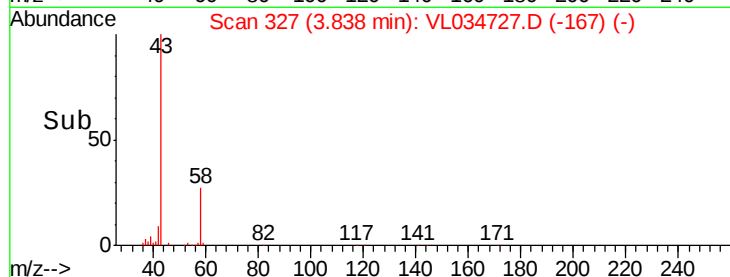
100000

50000

0

Time-->

3.80 3.85 3.90



#17

tert-Butyl alcohol

Concen: 0.194 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.02 min

Lab File: VL034727.D

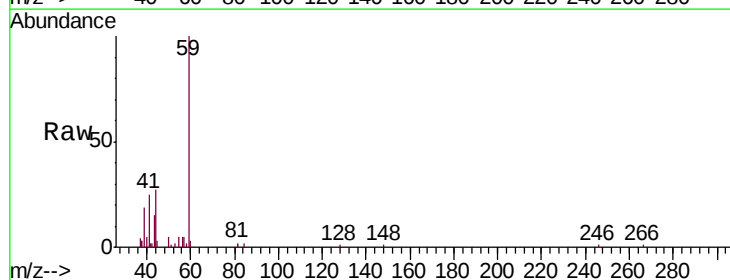
Acq: 28 Feb 2020 3:14

Tgt Ion: 59 Resp: 19373

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

20000

15000

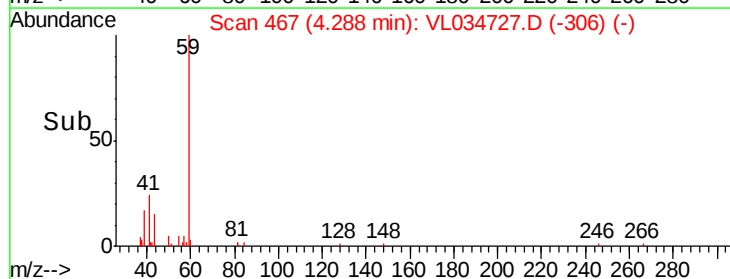
10000

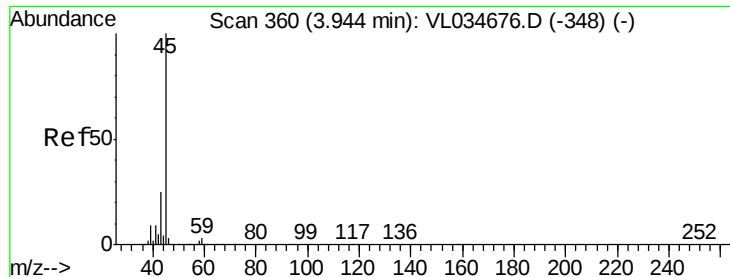
5000

0

Time-->

4.26 4.28 4.30





#19

Isopropyl Alcohol

Concen: 3.834 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

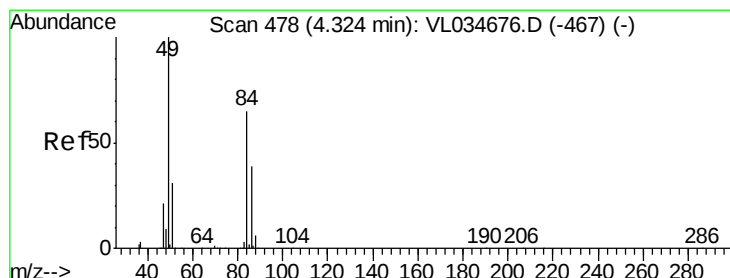
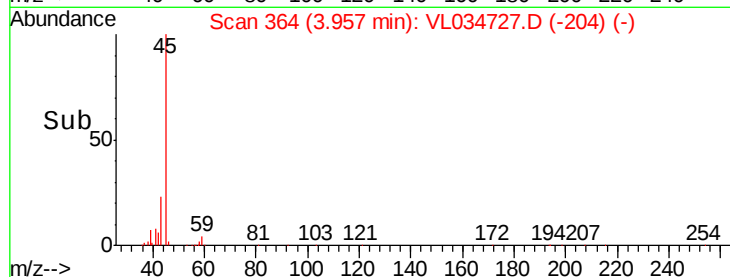
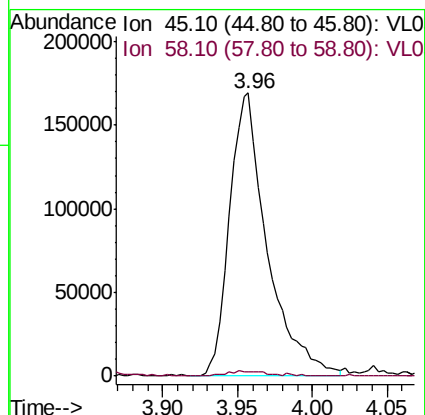
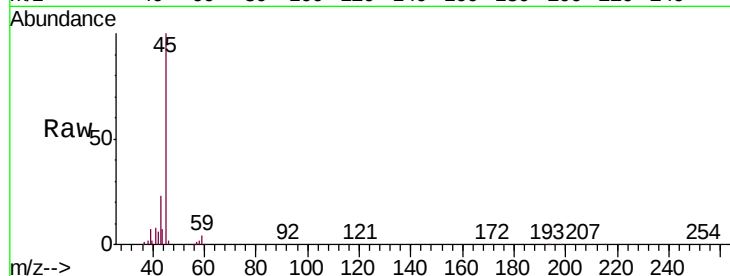
SG-4-STORAGE-ROOM-NEXT-TO-C

Tgt Ion: 45 Resp: 297647

Ion Ratio Lower Upper

45 100

58 2.2 1.8 2.6



#20

Methylene Chloride

Concen: 0.477 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Tgt Ion: 84 Resp: 23130

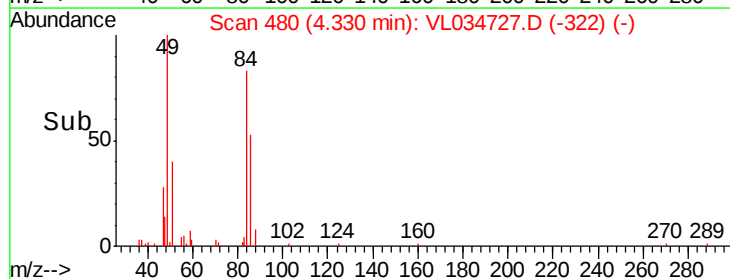
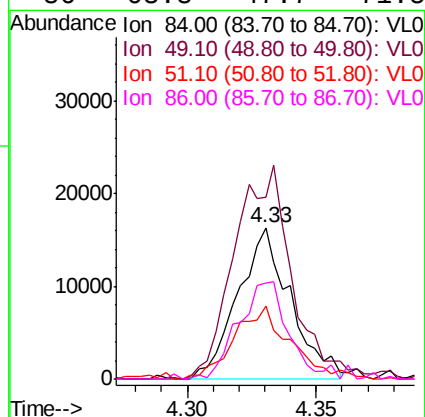
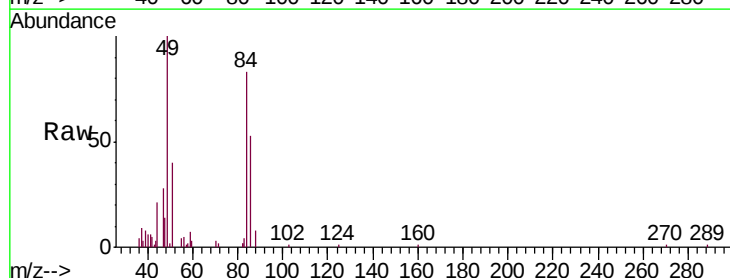
Ion Ratio Lower Upper

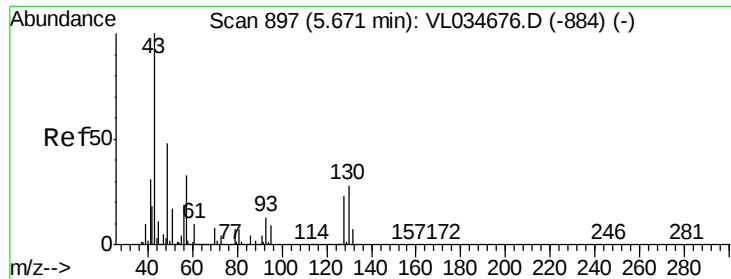
84 100

49 118.7 122.8 184.2#

51 45.3 38.6 58.0

86 63.8 47.7 71.5

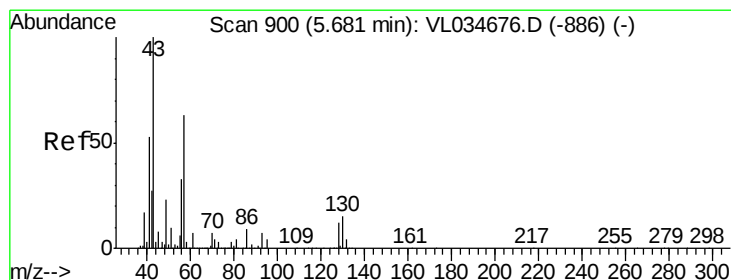
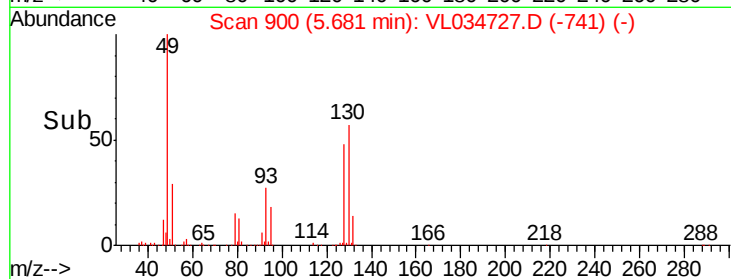
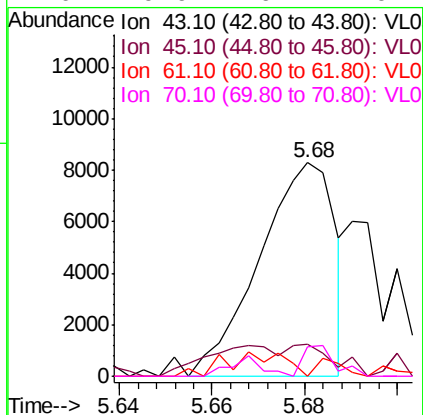
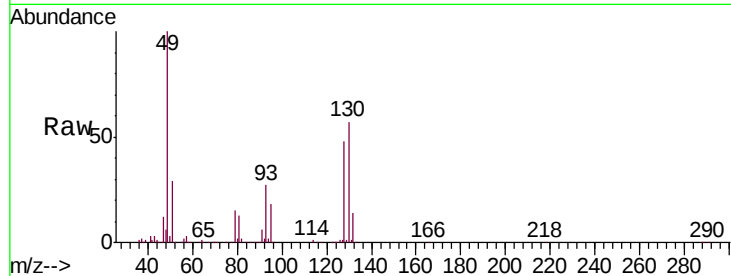




#25
Ethyl Acetate
Concen: 0.041 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

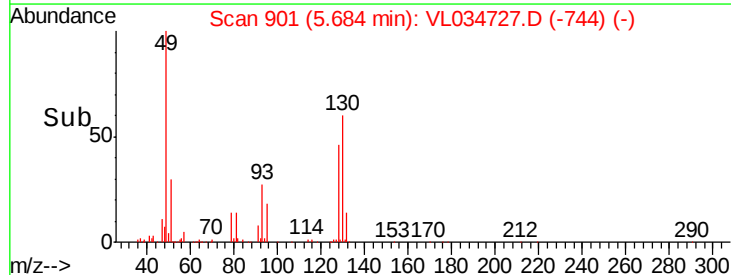
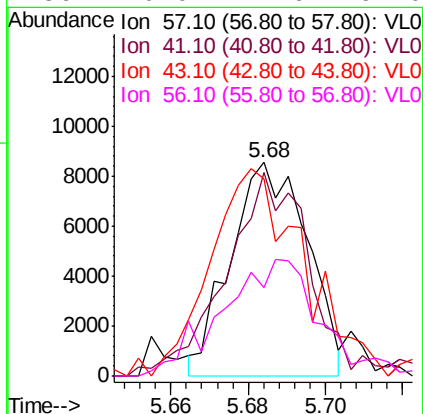
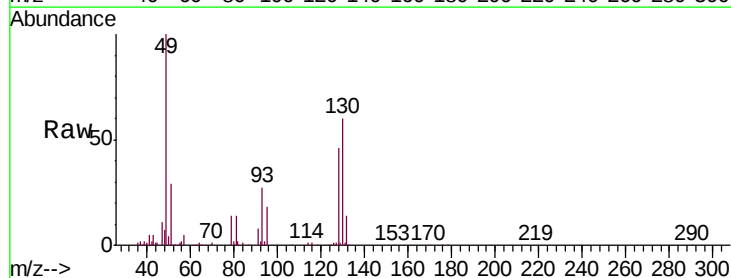
Instrument :
MSVOA_L
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SG-4-STORAGE-ROOM-NEXT-TO-C

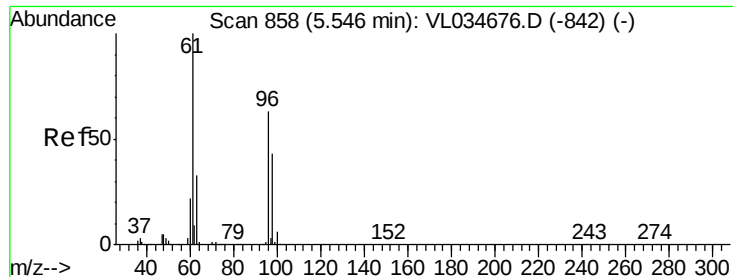
Tgt Ion:	43	Resp:	9373
Ion	Ratio	Lower	Upper
43	100		
45	28.3	8.2	12.4#
61	11.5	7.8	11.6
70	9.9	6.1	9.1#



#26
Hexane
Concen: 0.111 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Tgt Ion:	57	Resp:	11771
Ion	Ratio	Lower	Upper
57	100		
41	108.4	70.3	105.5#
43	126.4	177.0	265.4#
56	70.0	42.6	64.0#

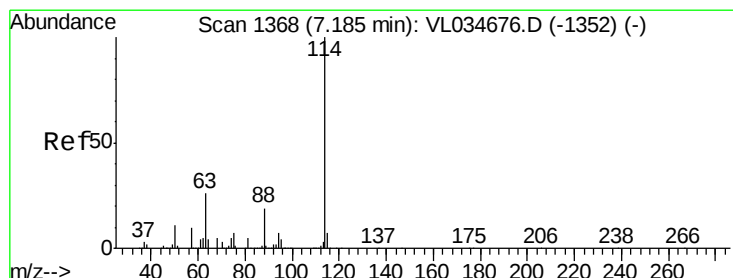
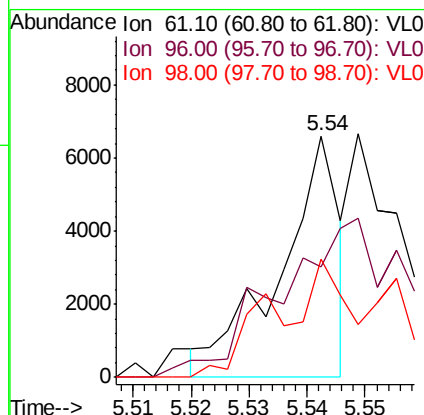
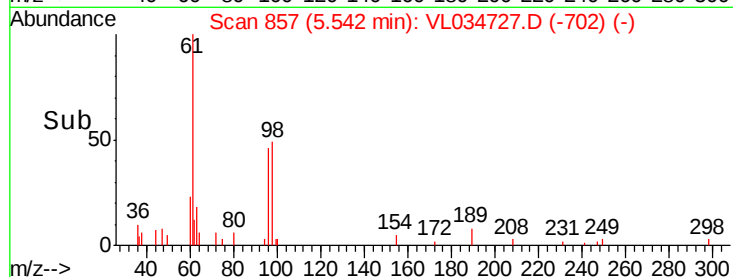
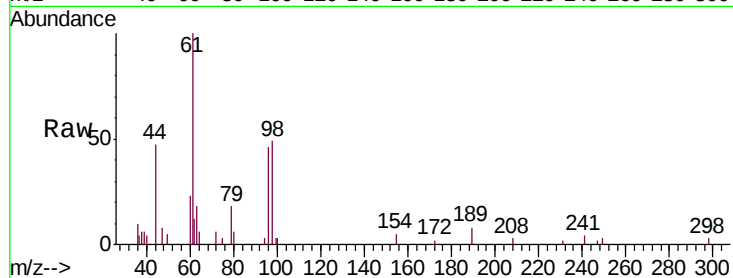




#31
 cis-1,2-Dichloroethene
 Concen: 0.045 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VL034727.D
 Acq: 28 Feb 2020 3:14

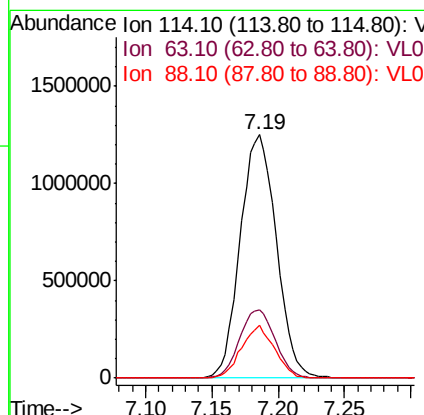
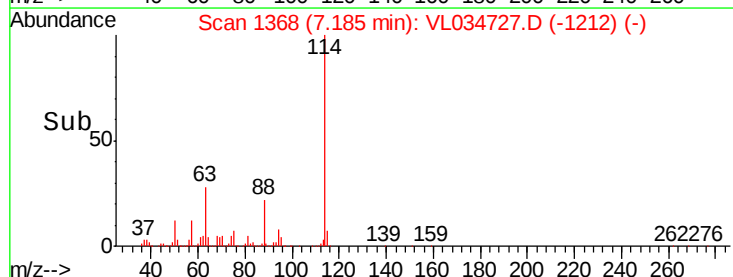
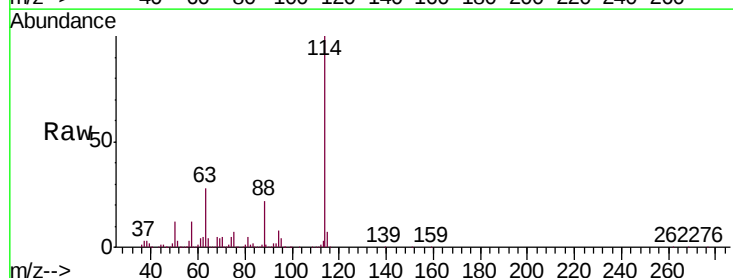
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4-STORAGE-ROOM-NEXT-TO-C

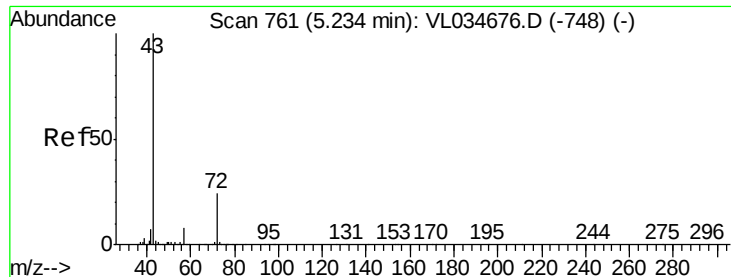
Tgt Ion:	61	Resp:	4699
Ion	Ratio	Lower	Upper
61	100		
96	43.9	50.2	75.2#
98	55.6	34.3	51.5#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL034727.D
 Acq: 28 Feb 2020 3:14

Tgt Ion:	114	Resp:	2374878
Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.9	34.3
88	19.9	15.8	23.6

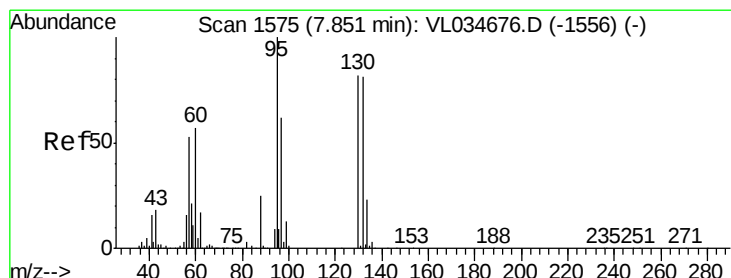
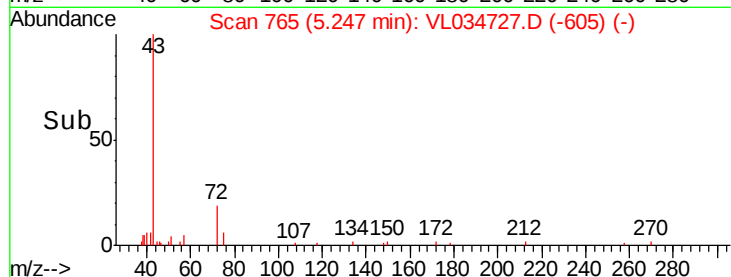
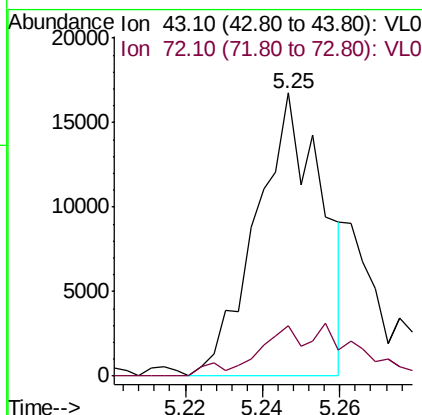
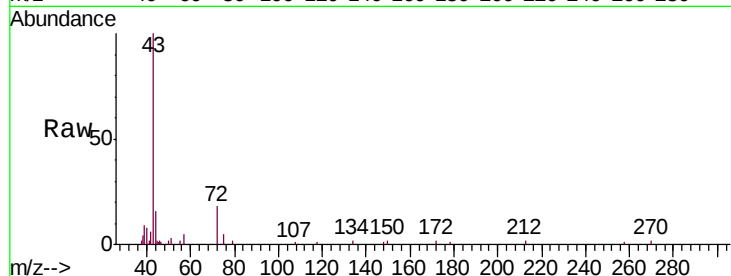




#34
2-Butanone
Concen: 0.132 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

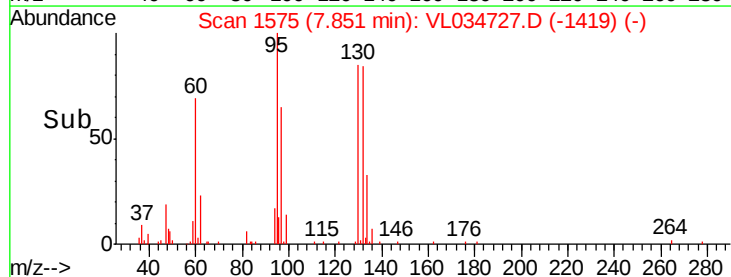
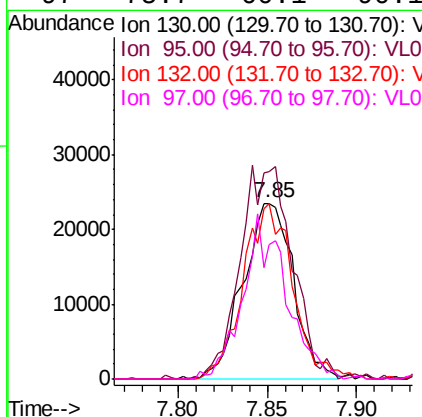
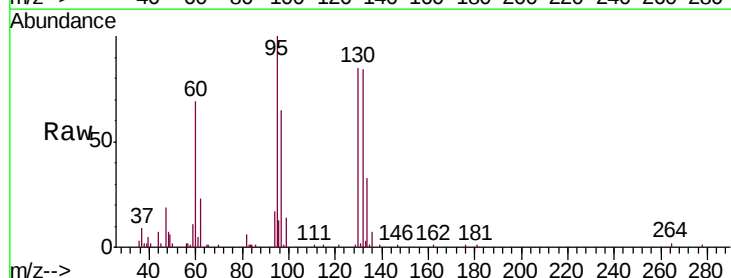
Instrument :
MSVOA_L
ClientSampleId :
SG-4-STORAGE-ROOM-NEXT-TO-C

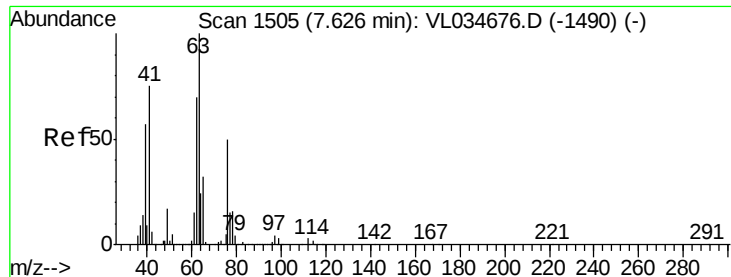
Tgt Ion: 43 Resp: 19754
Ion Ratio Lower Upper
43 100
72 25.6 18.2 27.2



#38
Trichloroethene
Concen: 0.587 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Tgt Ion: 130 Resp: 46392
Ion Ratio Lower Upper
130 100
95 118.0 97.1 145.7
132 99.6 78.3 117.5
97 75.7 60.1 90.1





#39

1,2-Dichloropropane

Concen: 8.066 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.44 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

SG-4-STORAGE-ROOM-NEXT-TO-C

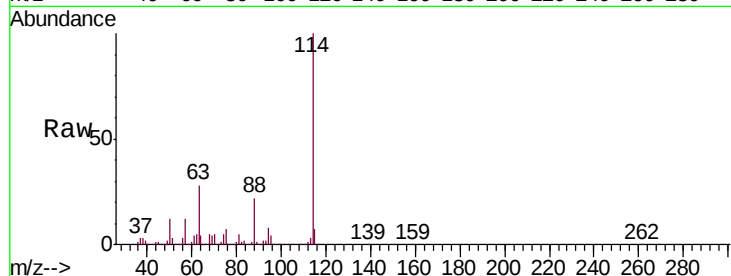
Tgt Ion: 63 Resp: 658204

Ion Ratio Lower Upper

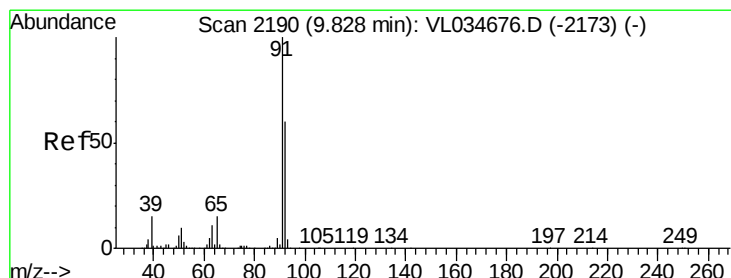
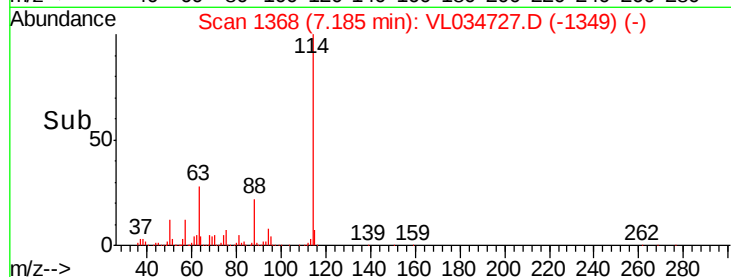
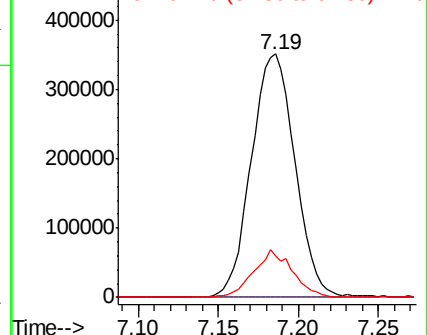
63 100

41 0.0 60.2 90.4#

62 16.9 56.3 84.5#



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: 0.097 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. 0.00 min

Lab File: VL034727.D

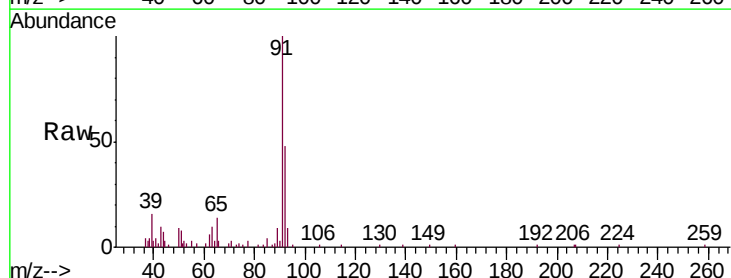
Acq: 28 Feb 2020 3:14

Tgt Ion: 91 Resp: 21092

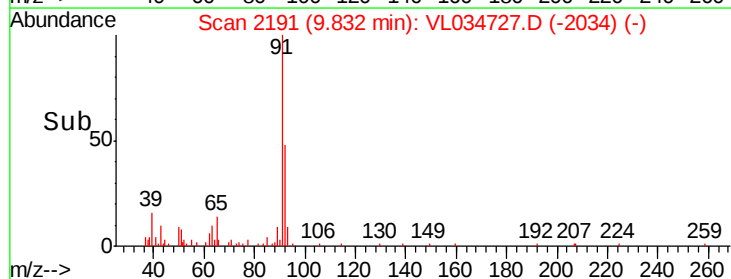
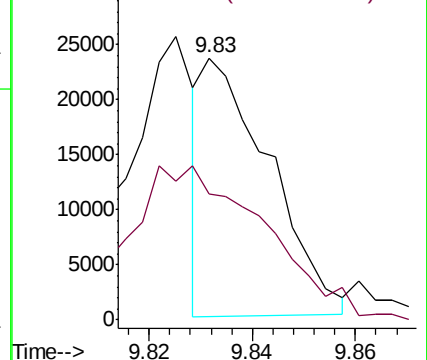
Ion Ratio Lower Upper

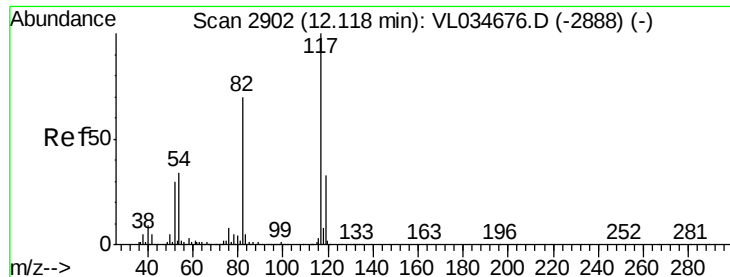
91 100

92 0.0 48.5 72.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

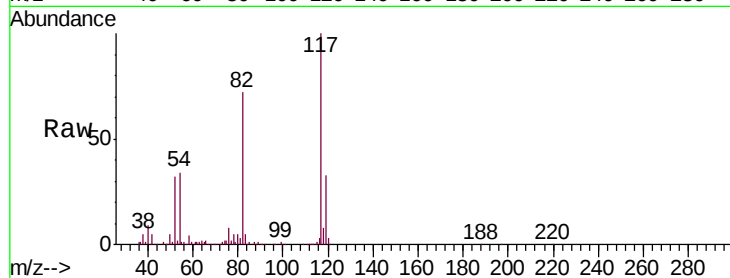




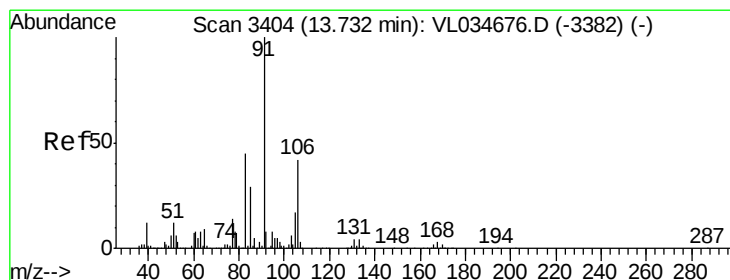
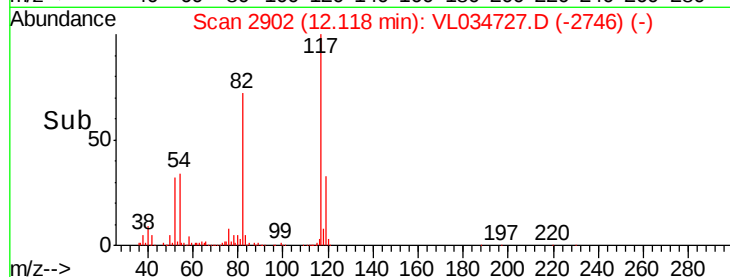
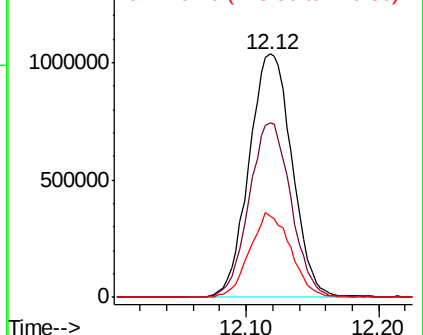
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. 0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Instrument :
MSVOA_L
ClientSampleId :
SG-4-STORAGE-ROOM-NEXT-TO-C

Tgt Ion: 117 Resp: 2339932
Ion Ratio Lower Upper
117 100
82 70.8 54.1 81.1
119 33.3 27.6 41.4

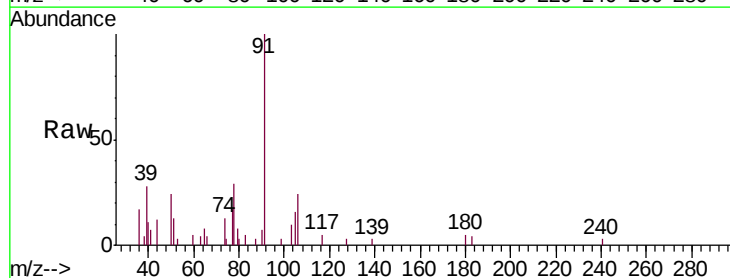


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

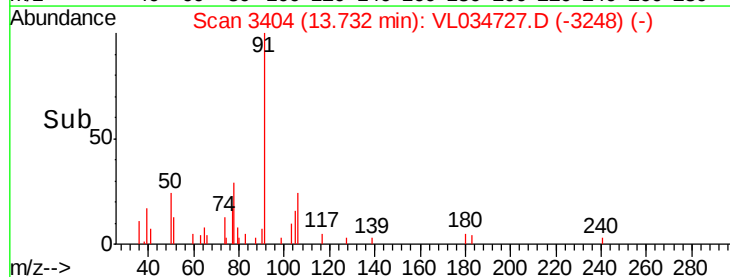
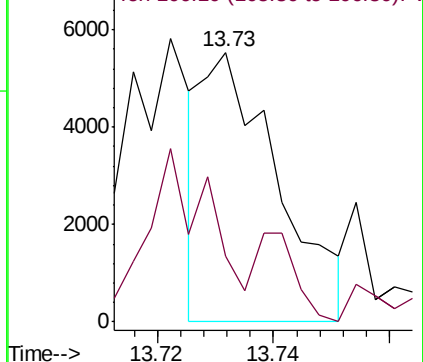


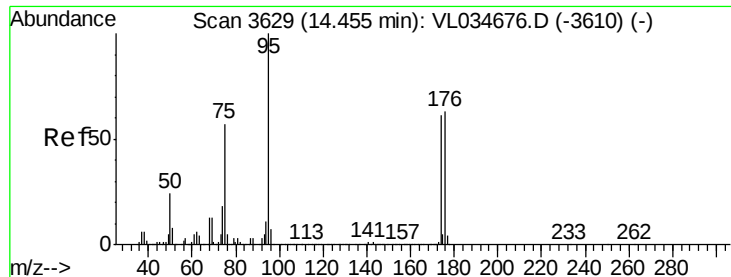
#60
o-Xylene
Concen: 0.020 ppbv
RT: 13.73 min Scan# 3404
Delta R.T. 0.00 min
Lab File: VL034727.D
Acq: 28 Feb 2020 3:14

Tgt Ion: 91 Resp: 5010
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.041 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

Instrument :

MSVOA_L

ClientSampleId :

SG-4-STORAGE-ROOM-NEXT-TO-C

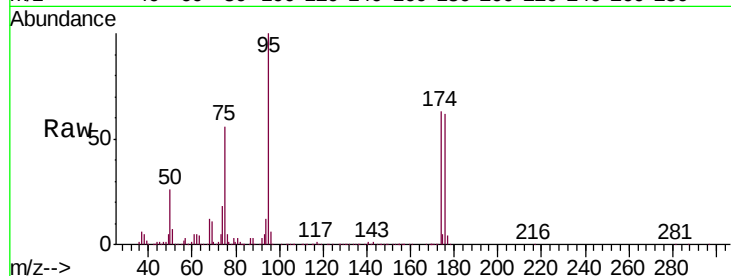
Tgt Ion: 95 Resp: 1926556

Ion Ratio Lower Upper

95 100

174 64.8 50.7 76.1

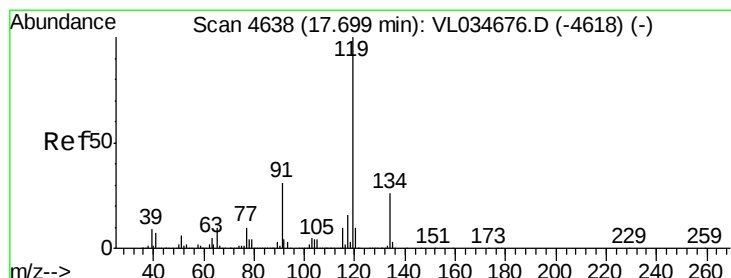
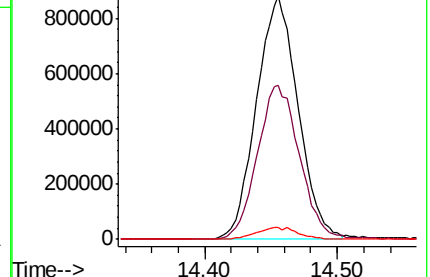
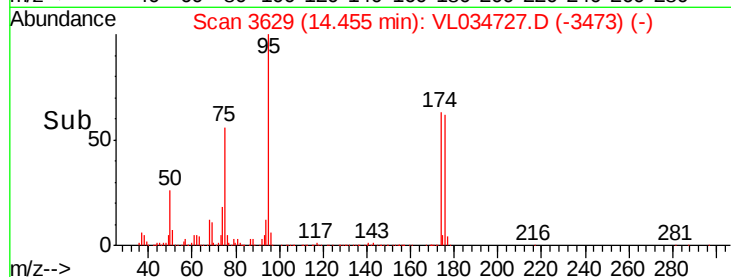
175 5.0 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL034727.D (-3610) (-)

Ion 174.00 (173.70 to 174.70): VL034727.D (-3610) (-)

Ion 175.00 (174.70 to 175.70): VL034727.D (-3610) (-)



#69

p-Isopropyltoluene

Concen: 0.023 ppbv

RT: 17.70 min Scan# 4637

Delta R.T. -0.00 min

Lab File: VL034727.D

Acq: 28 Feb 2020 3:14

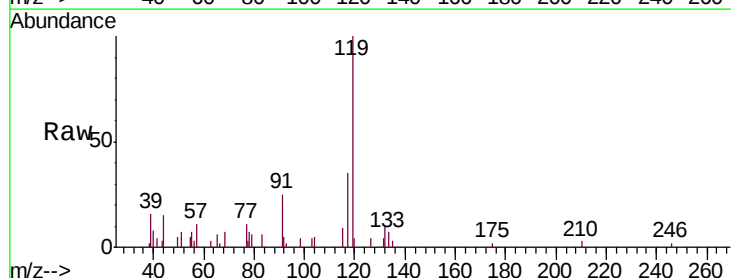
Tgt Ion: 119 Resp: 8412

Ion Ratio Lower Upper

119 100

134 0.0 20.6 31.0#

91 0.0 25.3 37.9#



Abundance Ion 119.10 (118.80 to 119.80): VL034727.D (-4618) (-)

Ion 134.20 (133.90 to 134.90): VL034727.D (-4618) (-)

Ion 91.10 (90.80 to 91.80): VL034727.D (-4618) (-)

