

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033501.D
 Acq On : 29 Mar 2019 14:14
 Operator : SY/AP
 Sample : K2042-16DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 01:10:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 26 16:00:50 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	809819	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2145414	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2113153	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1644037	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

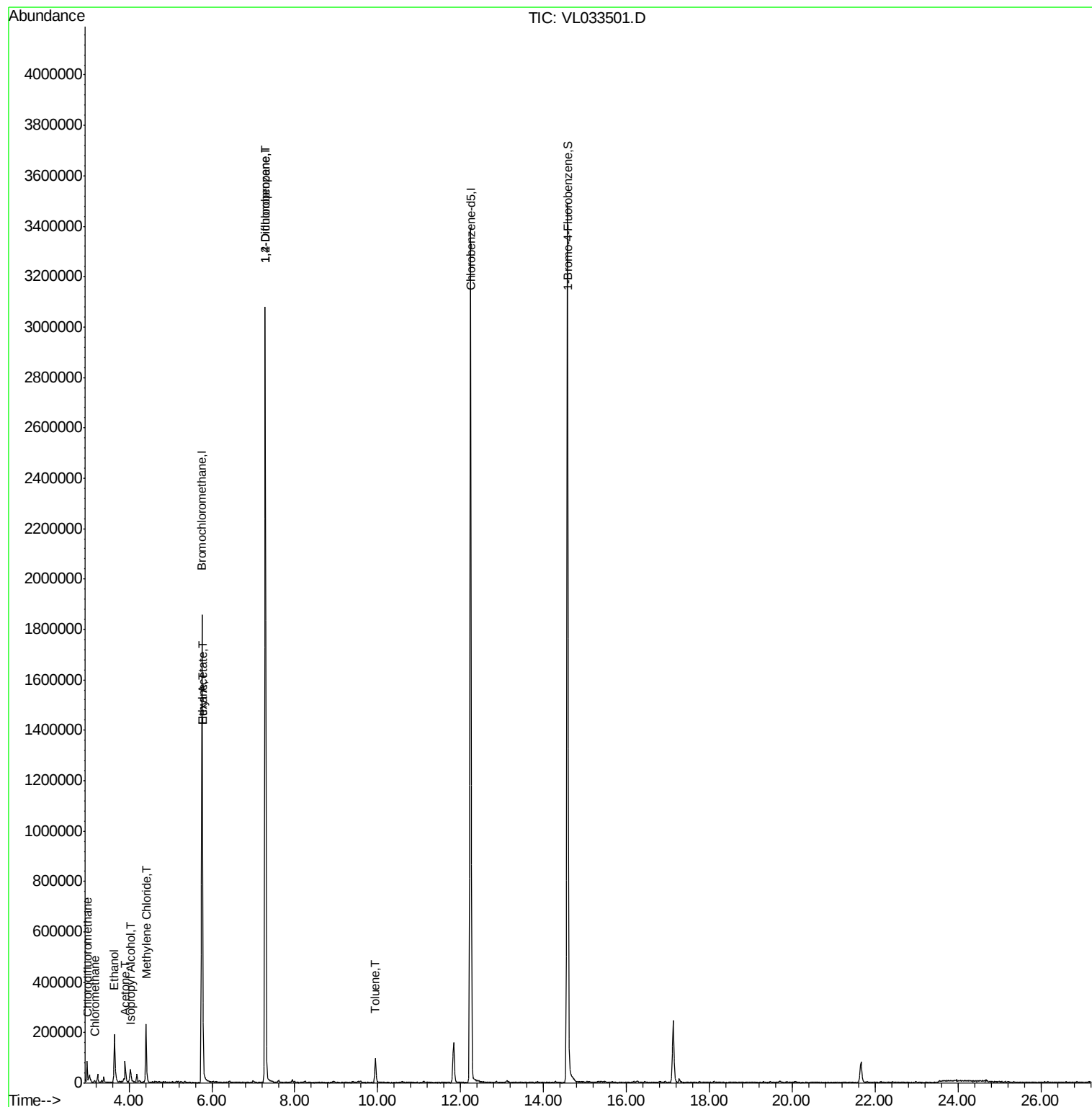
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	48862	0.52	ppbv #	61
4) Chloromethane	3.17	50	3599	0.07	ppbv #	80
13) Ethanol	3.64	45	206667	20.40	ppbv	64
15) Acetone	3.90	43	82938	0.85	ppbv	96
19) Isopropyl Alcohol	4.04	45	56964	0.92	ppbv #	90
20) Methylene Chloride	4.41	84	80702	1.95	ppbv	97
25) Ethyl Acetate	5.78	43	47542	0.26	ppbv #	79
26) Hexane	5.78	57	64296	0.80	ppbv #	41
39) 1,2-Dichloropropane	7.29	63	556640	7.89	ppbv #	23
53) Toluene	9.95	91	68980	0.33	ppbv	100

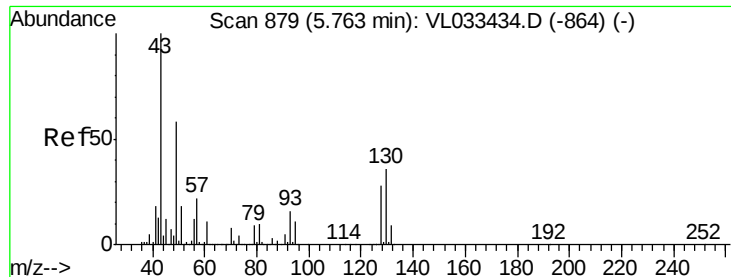
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033501.D

Acq: 29 Mar 2019 14:14

Instrument :

MSVOA_L

ClientSampleId :

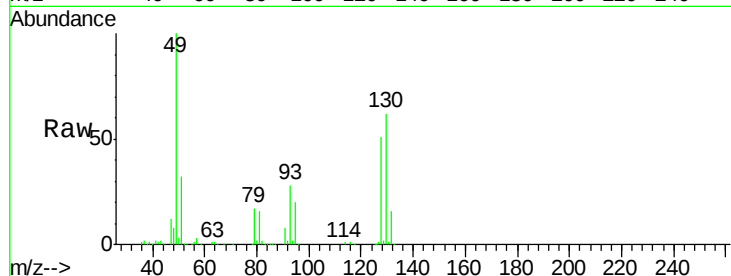
Tot Ion: 49 Resp: 809819

Ion Ratio Lower Upper

49 100

128 50.2 24.0 72.0

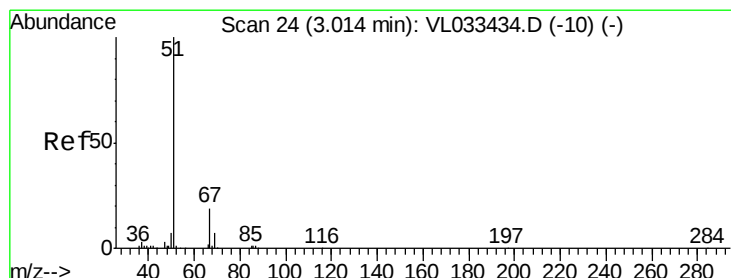
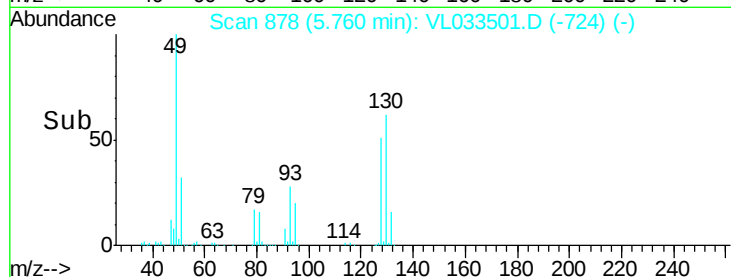
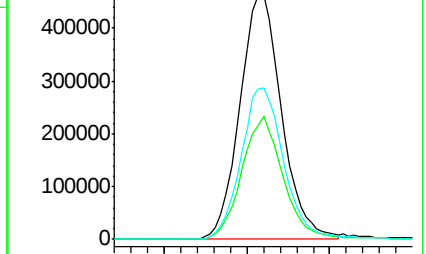
130 64.0 31.2 93.6



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: 0.52 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.03 min

Lab File: VL033501.D

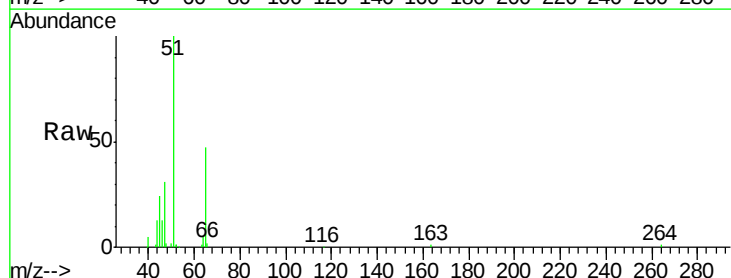
Acq: 29 Mar 2019 14:14

Tgt Ion: 51 Resp: 48862

Ion Ratio Lower Upper

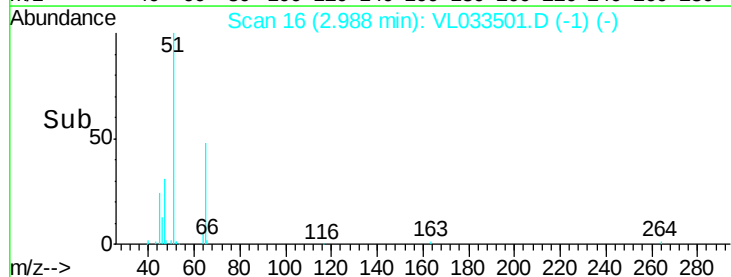
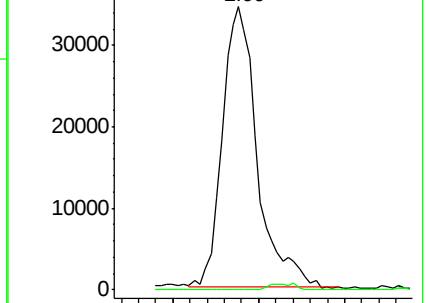
51 100

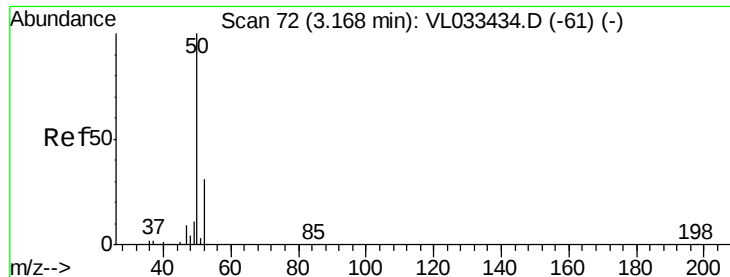
67 1.6 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.07 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033501.D

Acq: 29 Mar 2019 14:14

Instrument :

MSVOA_L

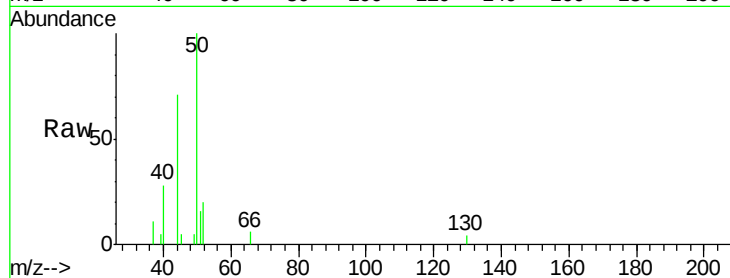
ClientSampleId :

Tot Ion: 50 Resp: 3599

Ion Ratio Lower Upper

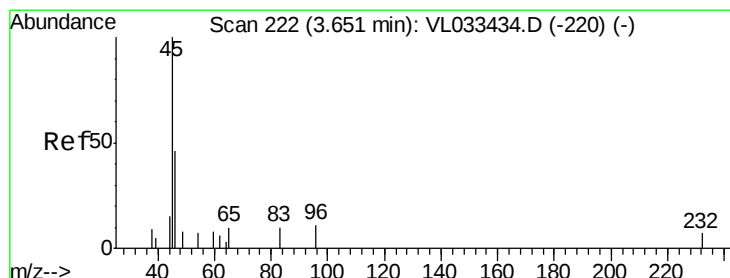
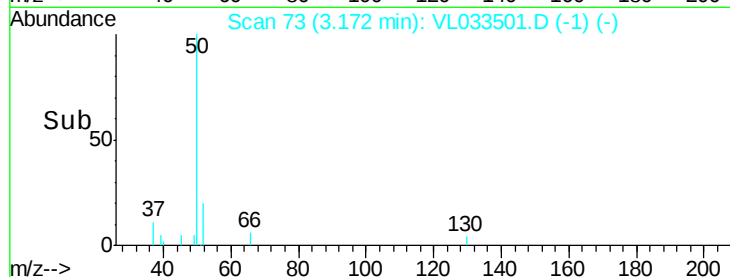
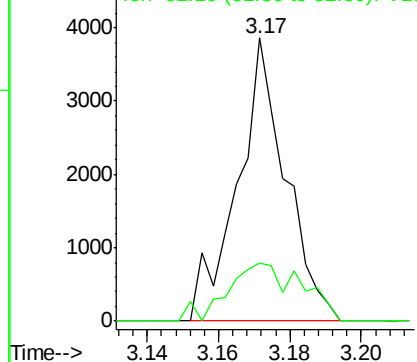
50 100

52 20.5 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#13

Ethanol

Concen: 20.40 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033501.D

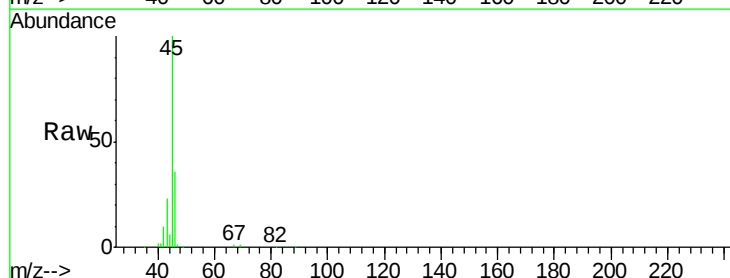
Acq: 29 Mar 2019 14:14

Tgt Ion: 45 Resp: 206667

Ion Ratio Lower Upper

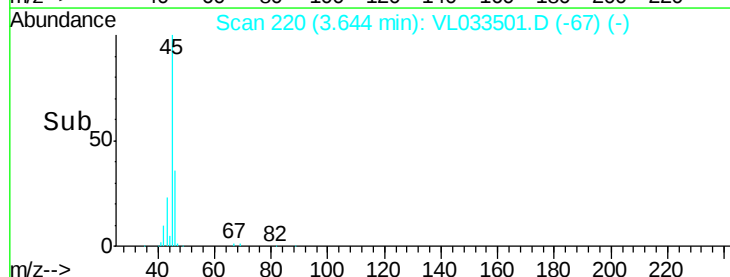
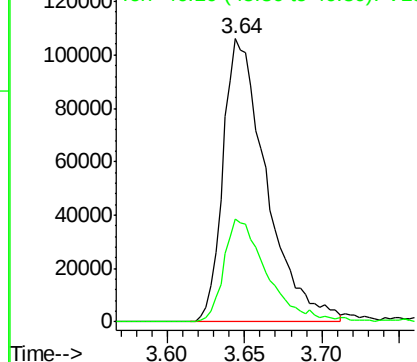
45 100

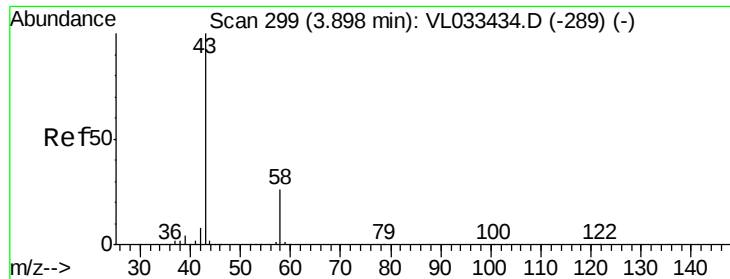
46 35.8 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.85 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.01 min

Lab File: VL033501.D

Acq: 29 Mar 2019 14:14

Instrument :

MSVOA_L

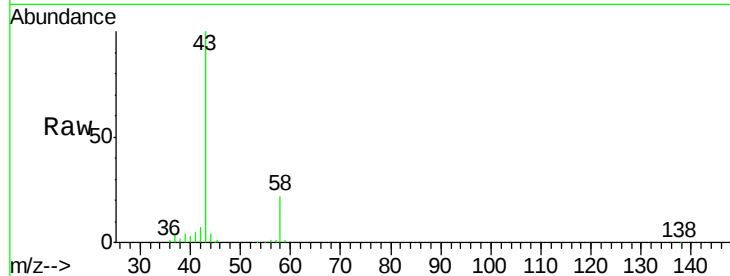
ClientSampleId :

Tot Ion: 43 Resp: 82938

Ion Ratio Lower Upper

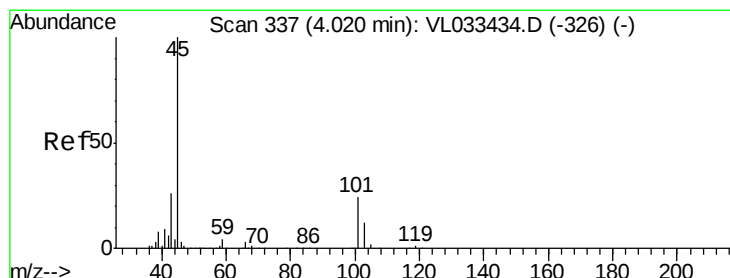
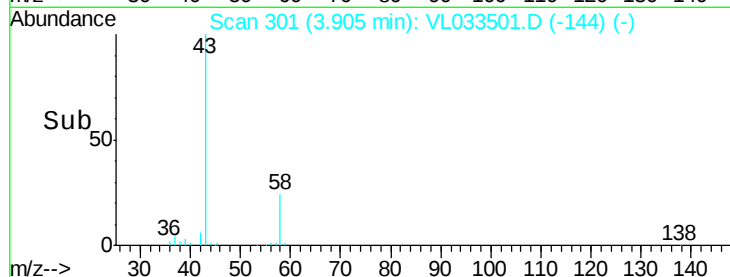
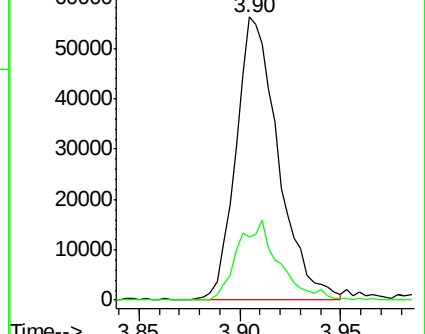
43 100

58 27.6 20.5 30.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.92 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033501.D

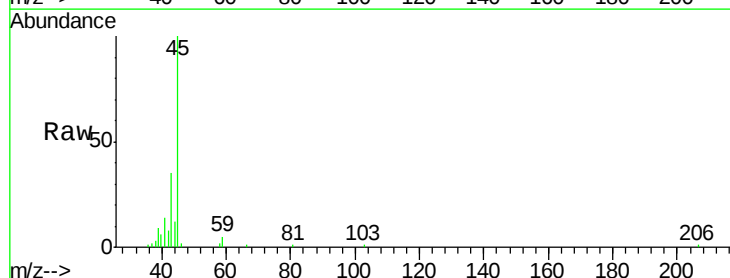
Acq: 29 Mar 2019 14:14

Tgt Ion: 45 Resp: 56964

Ion Ratio Lower Upper

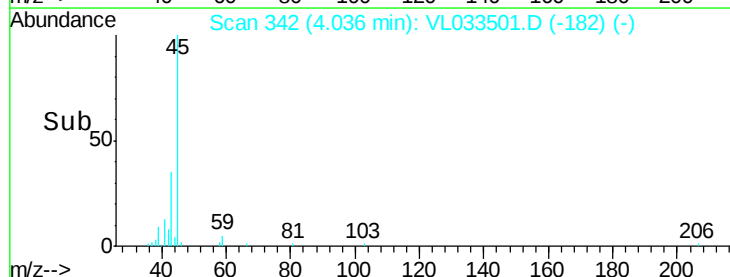
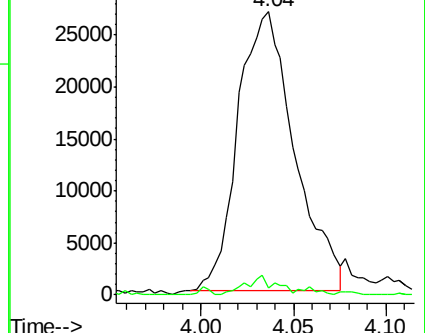
45 100

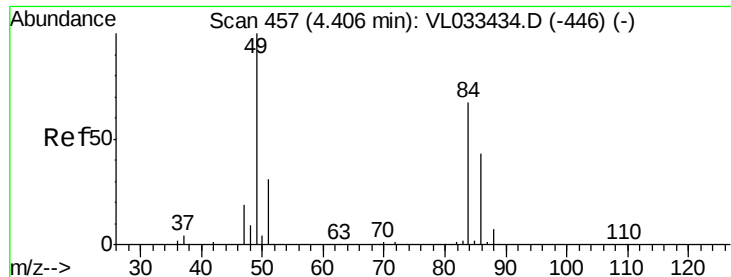
58 5.4 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

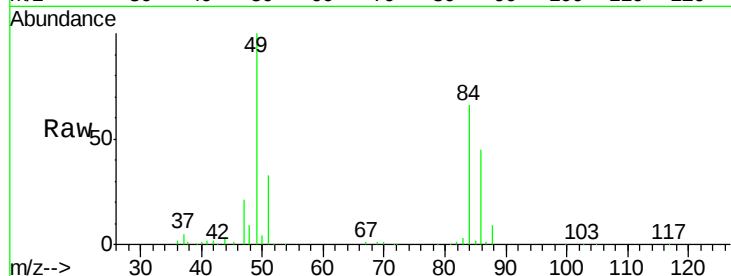




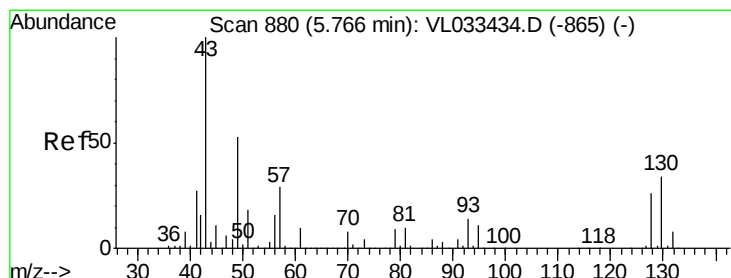
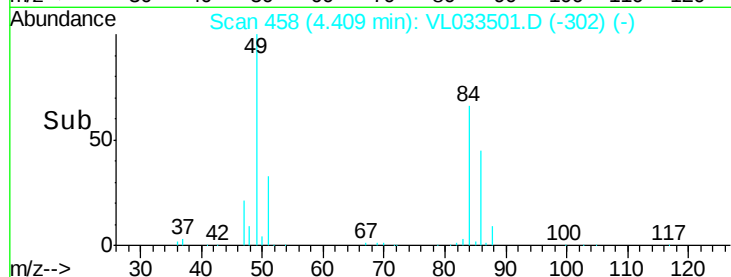
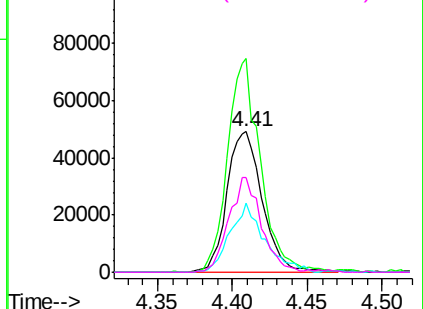
#20
Methvlene Chloride
Concen: 1.95 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 80702
Ion Ratio Lower Upper
84 100
49 152.3 120.0 180.0
51 49.6 36.7 55.1
86 67.8 51.9 77.9

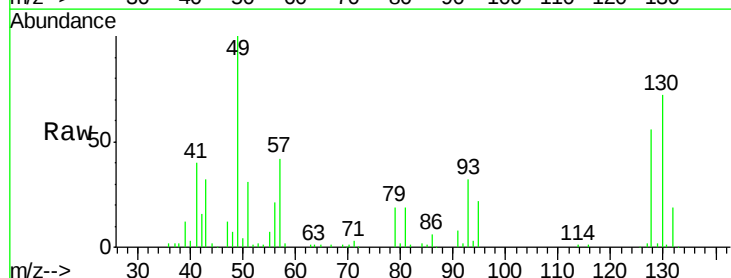


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

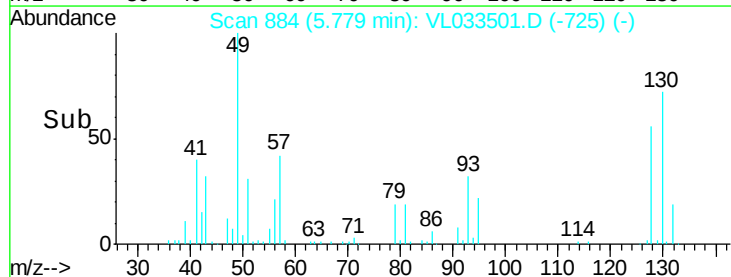
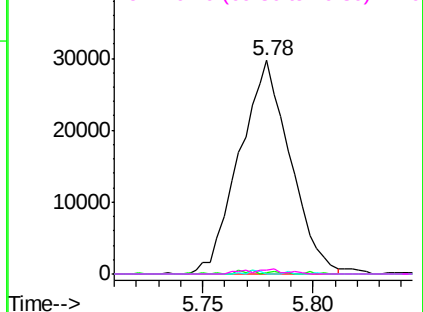


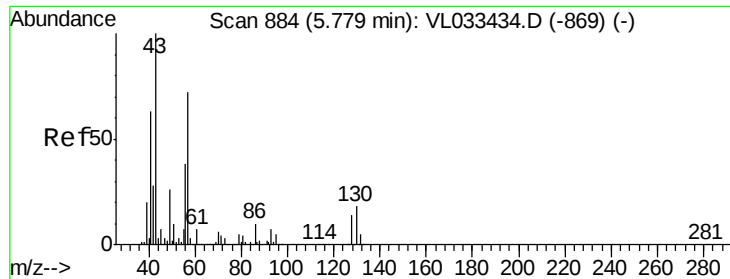
#25
Ethyl Acetate
Concen: 0.26 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Tgt Ion: 43 Resp: 47542
Ion Ratio Lower Upper
43 100
45 1.4 7.8 11.6#
61 0.6 7.3 10.9#
70 1.7 5.6 8.4#



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

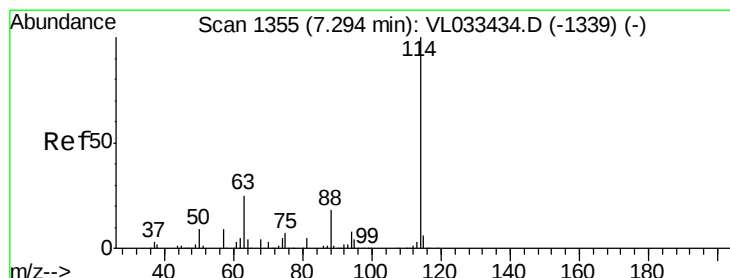
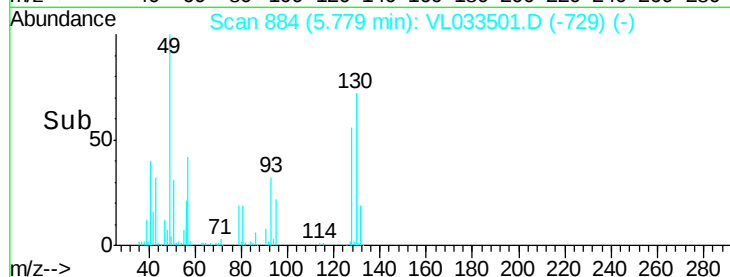
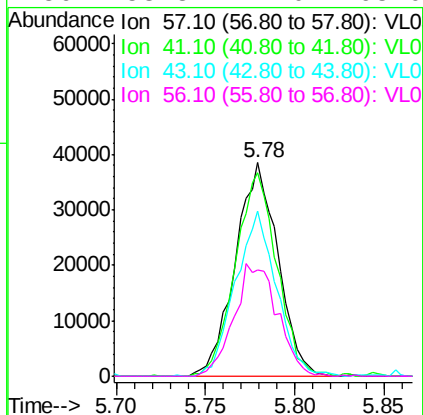
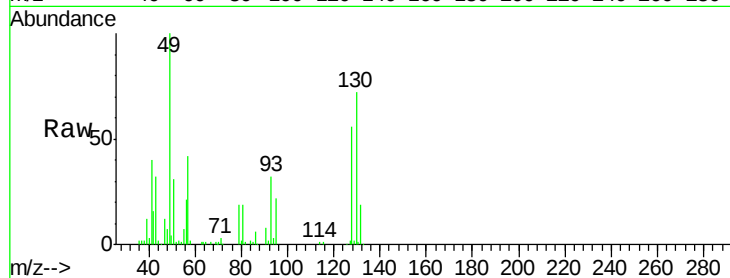




#26
Hexane
Concen: 0.80 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

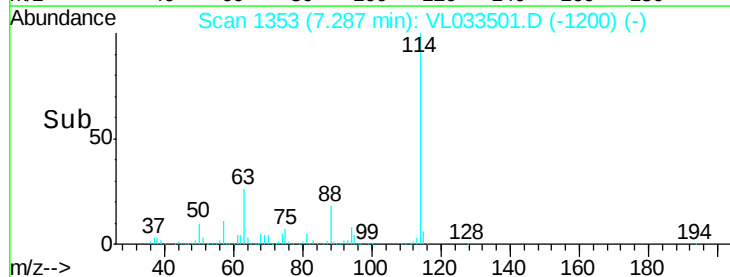
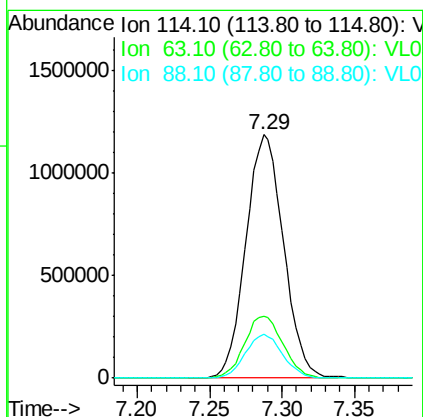
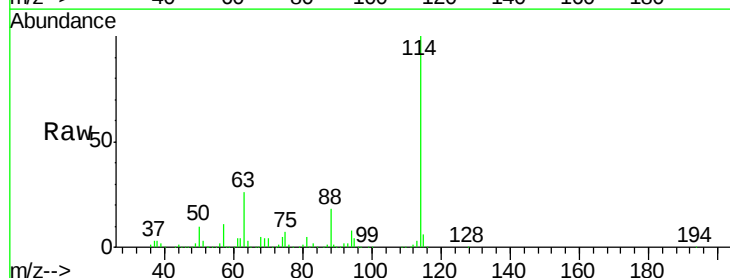
Instrument :
MSVOA_L
ClientSampled :

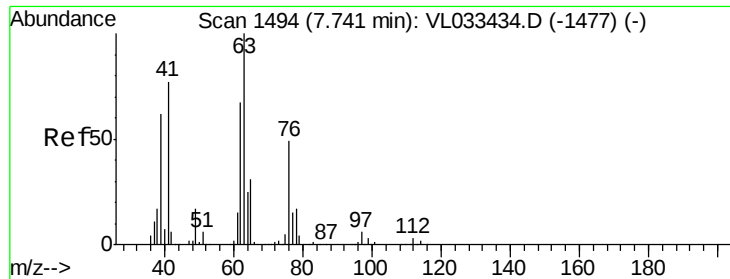
Tot Ion: 57 Resp: 64296
Ion Ratio Lower Upper
57 100
41 94.2 70.7 106.1
43 74.7 182.6 274.0#
56 53.8 42.0 63.0



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Tgt Ion:114 Resp: 2145414
Ion Ratio Lower Upper
114 100
63 26.0 21.5 32.3
88 18.0 14.5 21.7

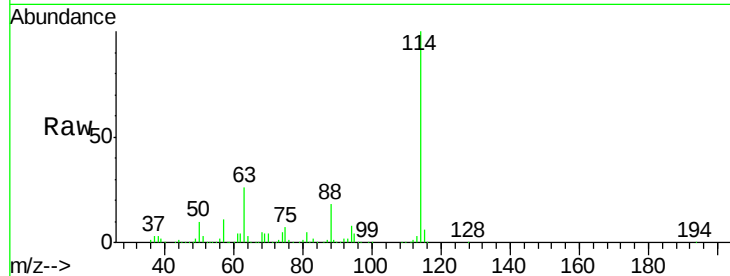




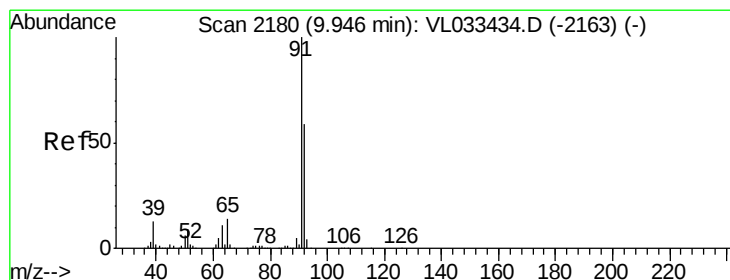
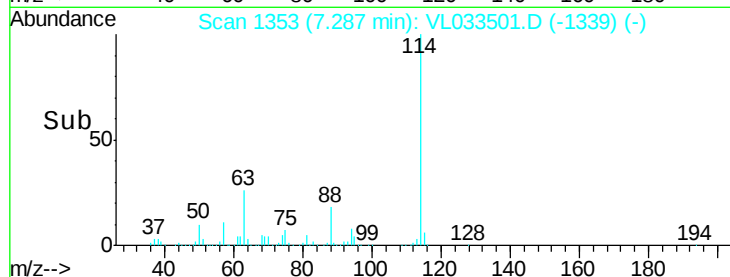
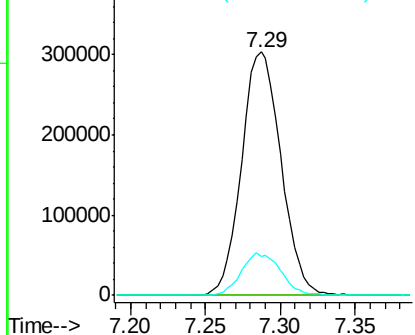
#39
 1,2-Dichloropropane
 Concen: 7.89 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.45 min
 Lab File: VL033501.D
 Acq: 29 Mar 2019 14:14

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 63 Resp: 55640
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.2 91.8#
 62 16.2 54.0 81.0#

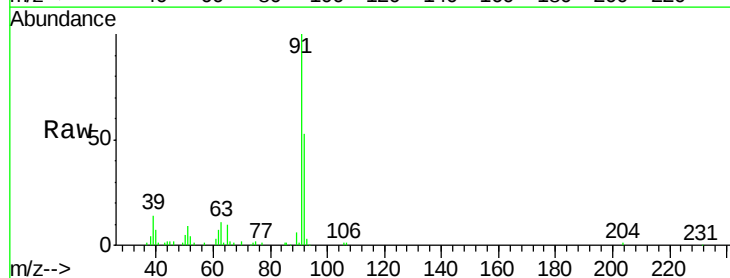


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

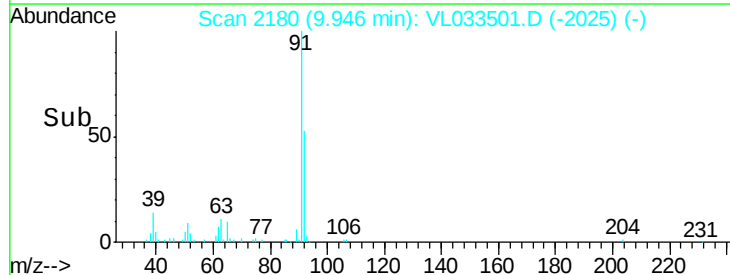
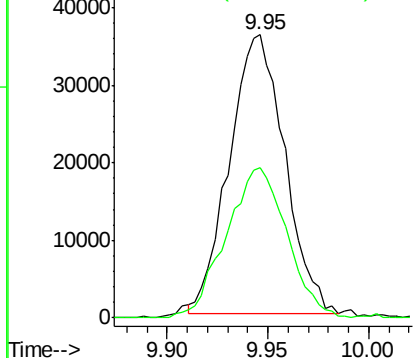


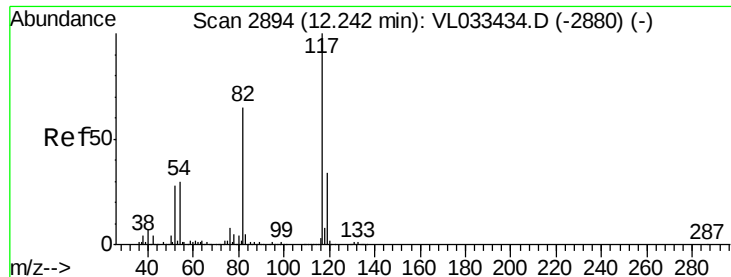
#53
 Toluene
 Concen: 0.33 ppbv
 RT: 9.95 min Scan# 2180
 Delta R.T. -0.00 min
 Lab File: VL033501.D
 Acq: 29 Mar 2019 14:14

Tgt Ion: 91 Resp: 68980
 Ion Ratio Lower Upper
 91 100
 92 59.2 47.4 71.0



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

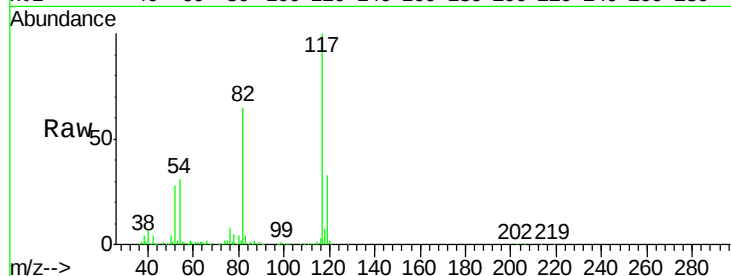




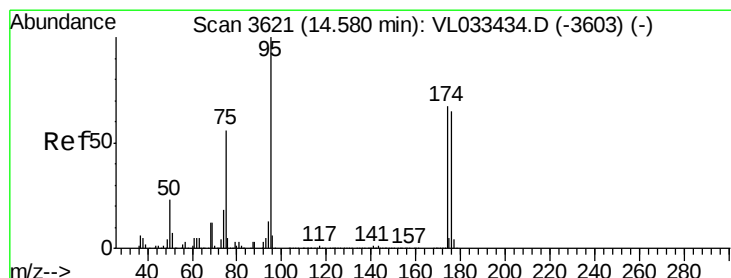
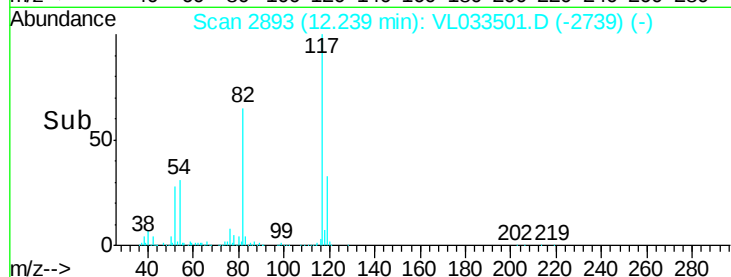
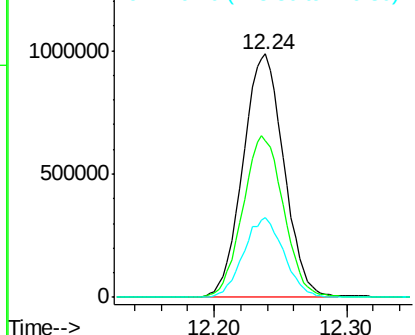
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 2113153
Ion Ratio Lower Upper
117 100
82 66.5 51.5 77.3
119 32.4 25.5 38.3

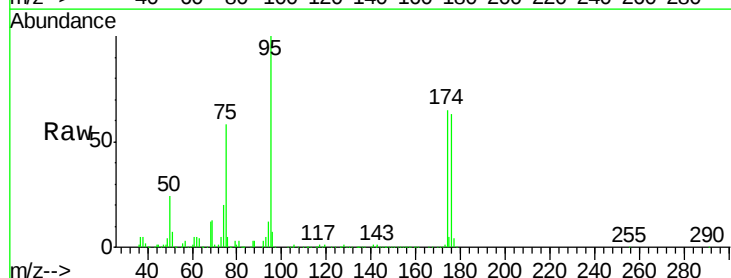


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.92 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033501.D
Acq: 29 Mar 2019 14:14

Tgt Ion: 95 Resp: 1644037
Ion Ratio Lower Upper
95 100
174 67.0 52.9 79.3
175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): V
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

