

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL111919\
 Data File : VL034394.D
 Acq On : 20 Nov 2019 00:52
 Operator : SY/AP
 Sample : K5924-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: Nov 20 04:07:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 03:30:54 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	967938	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1861109	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1864243	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1552134	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

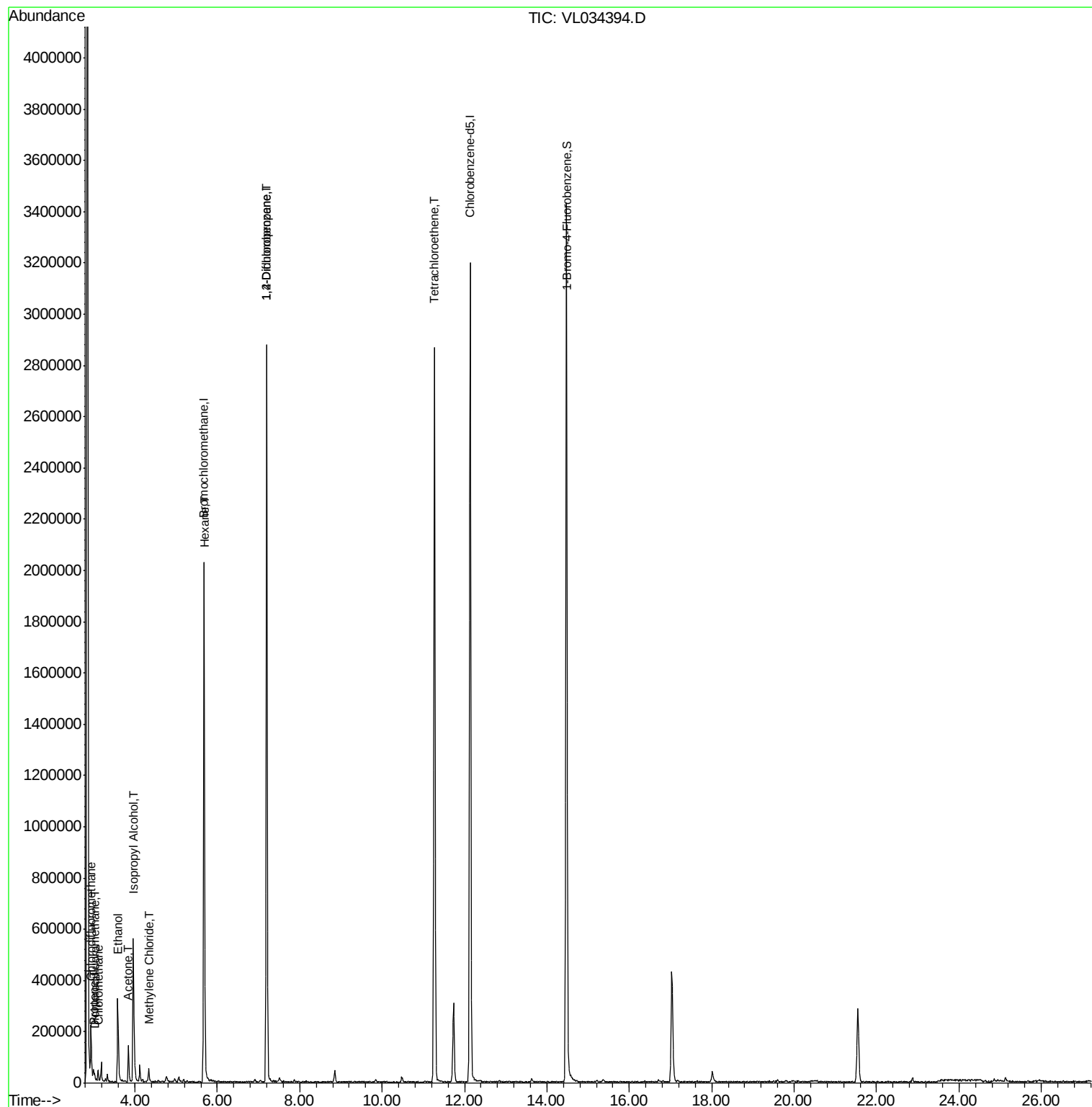
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	13079	0.075	ppbv	99
3) Chlorodifluoromethane	2.93	51	110427	0.914	ppbv #	58
4) Chloromethane	3.11	50	2455	0.034	ppbv #	63
9) Propene	2.99	41	5487	0.102	ppbv	96
13) Ethanol	3.58	45	311005	19.804	ppbv	95
15) Acetone	3.84	43	136275	0.983	ppbv	99
19) Isopropyl Alcohol	3.96	45	632033	6.270	ppbv	99
20) Methylene Chloride	4.34	84	14182	0.289	ppbv #	88
26) Hexane	5.69	57	8060	0.076	ppbv #	46
39) 1,2-Dichloropropane	7.19	63	564449	7.157	ppbv #	24
52) Tetrachloroethene	11.28	164	674555	8.380	ppbv	94

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

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QLast Update : Wed Nov 20 03:30:54 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

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MSVOA_L

ClientSampleId :

IA2DL

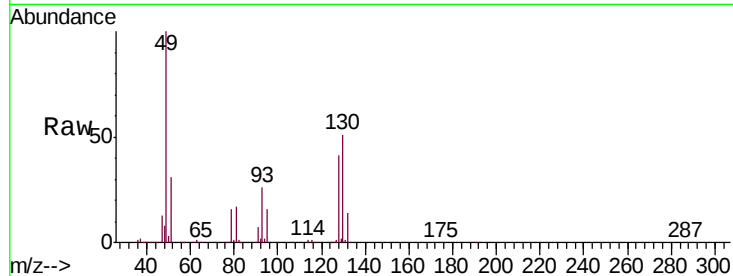
Tgt Ion: 49 Resp: 967938

Ion Ratio Lower Upper

49 100

128 42.1 21.8 65.3

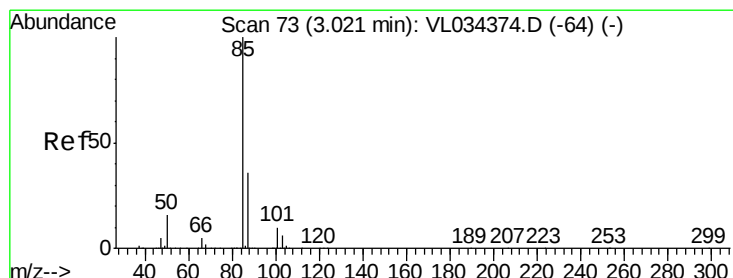
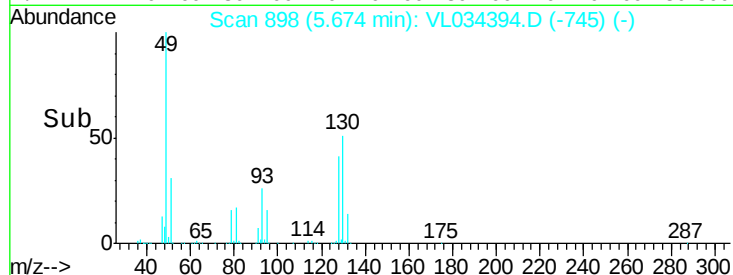
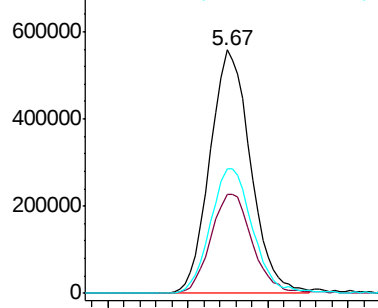
130 53.2 28.0 84.0



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: 0.075 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL034394.D

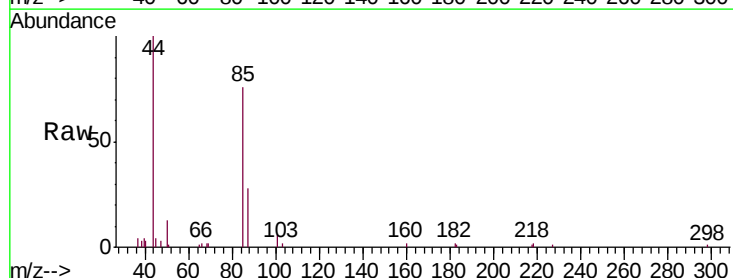
Acq: 20 Nov 2019 00:52

Tgt Ion: 85 Resp: 13079

Ion Ratio Lower Upper

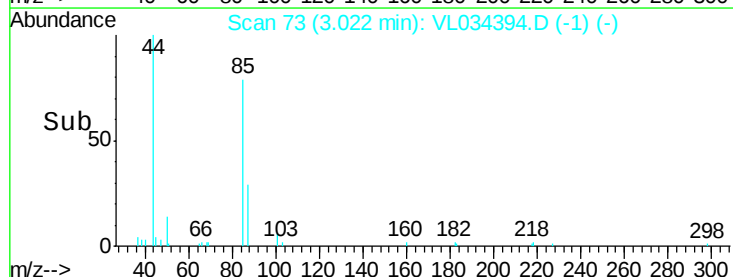
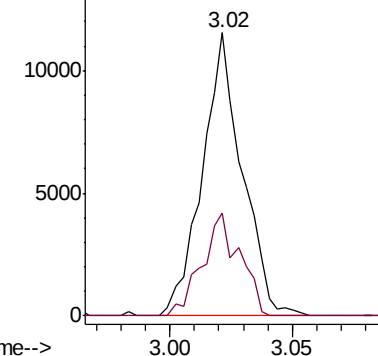
85 100

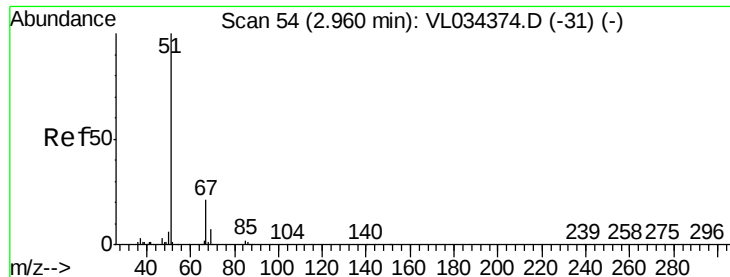
87 36.2 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.914 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.03 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampleId :

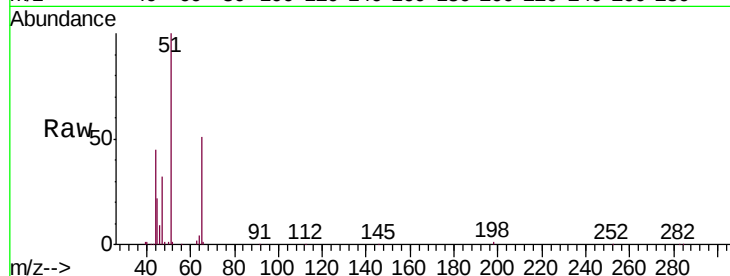
IA2DL

Tgt Ion: 51 Resp: 110427

Ion Ratio Lower Upper

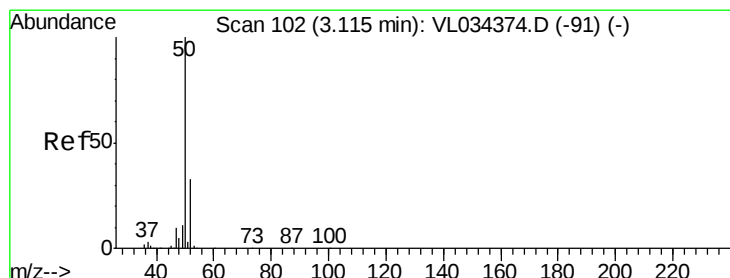
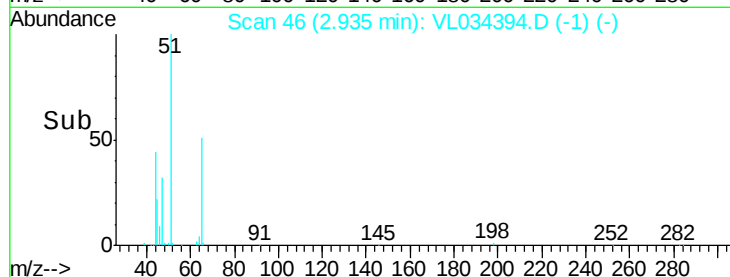
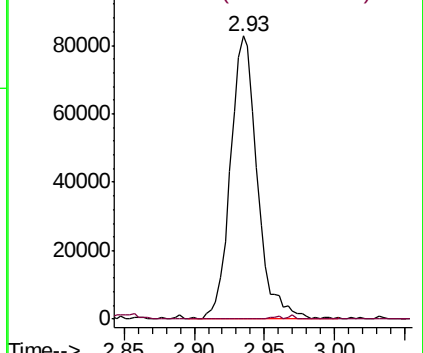
51 100

67 0.9 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: 0.034 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034394.D

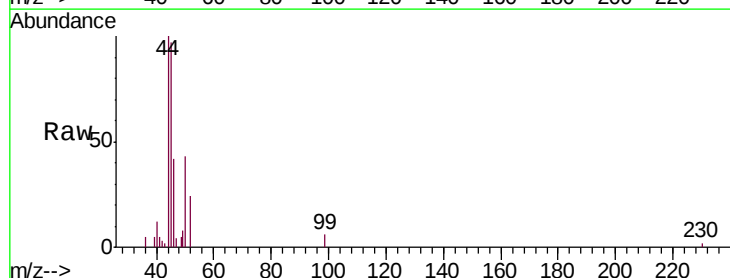
Acq: 20 Nov 2019 00:52

Tgt Ion: 50 Resp: 2455

Ion Ratio Lower Upper

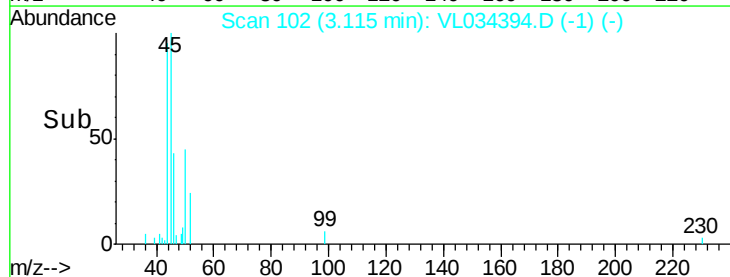
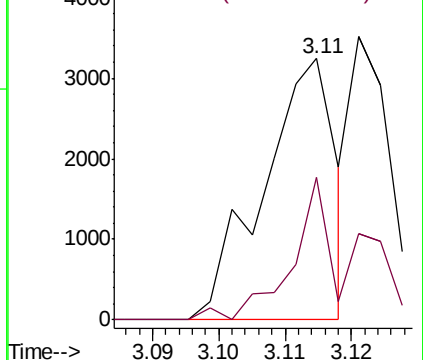
50 100

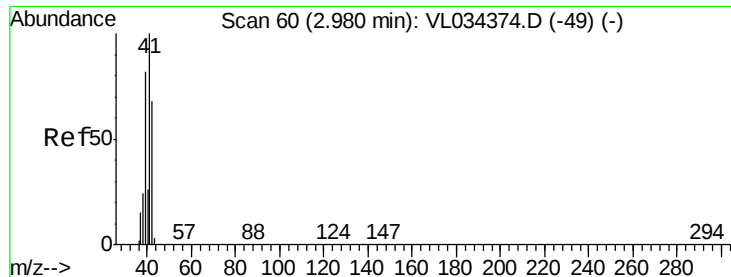
52 54.5 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.102 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampleId :

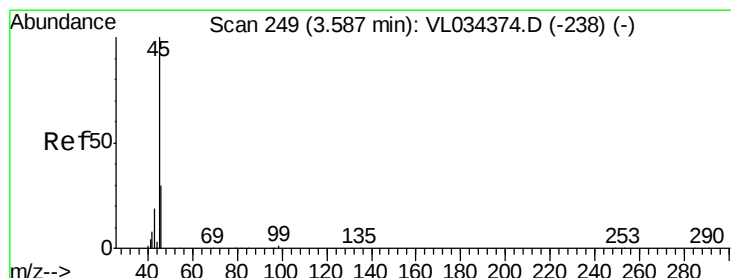
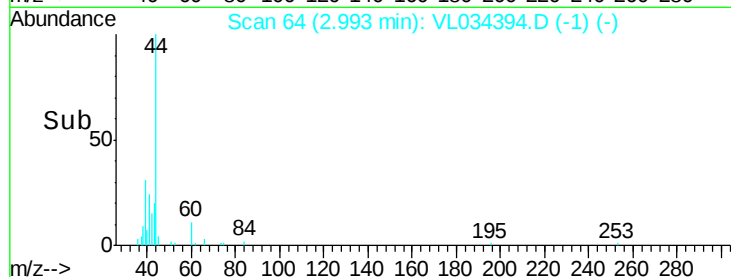
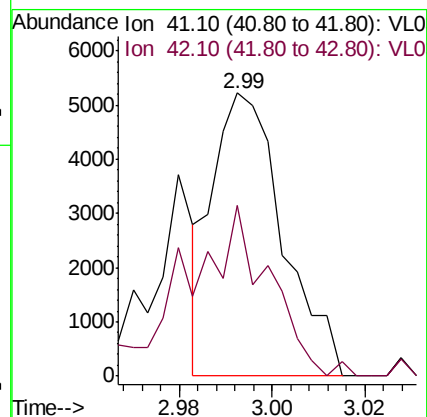
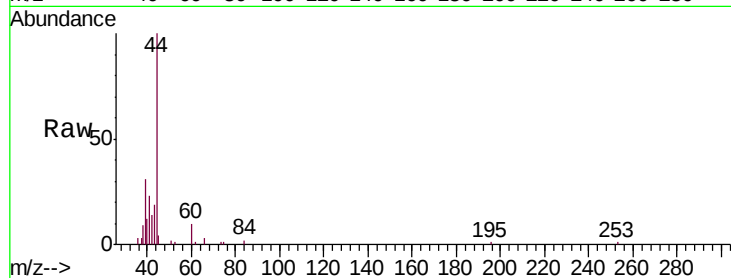
IA2DL

Tgt Ion: 41 Resp: 5487

Ion Ratio Lower Upper

41 100

42 71.5 54.6 82.0



#13

Ethanol

Concen: 19.804 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL034394.D

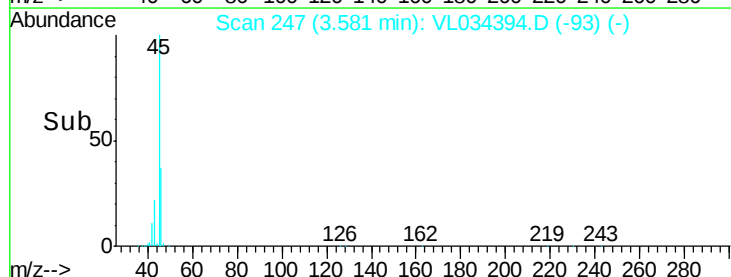
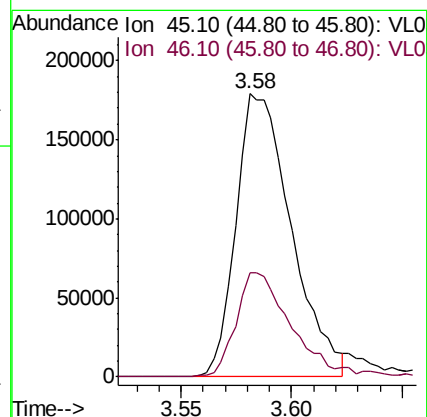
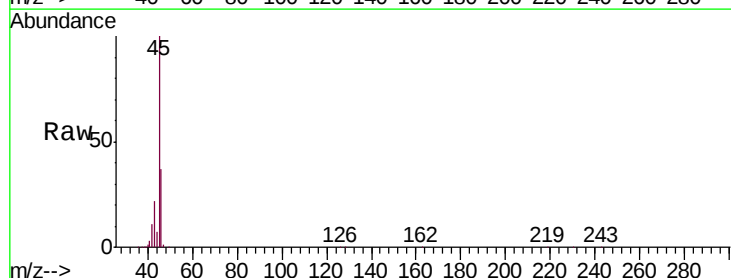
Acq: 20 Nov 2019 00:52

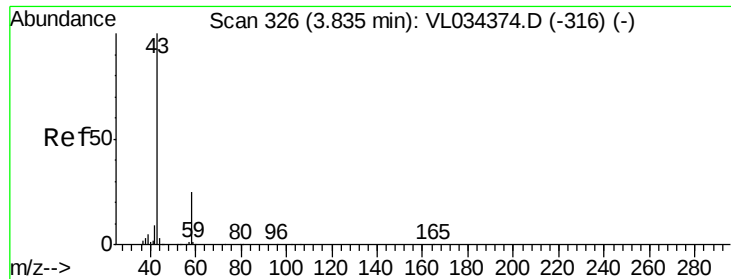
Tgt Ion: 45 Resp: 311005

Ion Ratio Lower Upper

45 100

46 37.6 13.8 55.4





#15

Acetone

Concen: 0.983 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampleId :

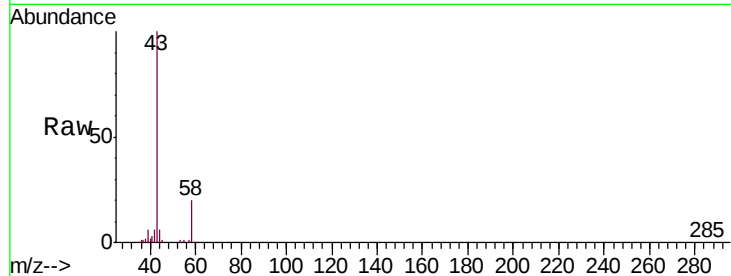
IA2DL

Tgt Ion: 43 Resp: 136275

Ion Ratio Lower Upper

43 100

58 24.7 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

100000

80000

60000

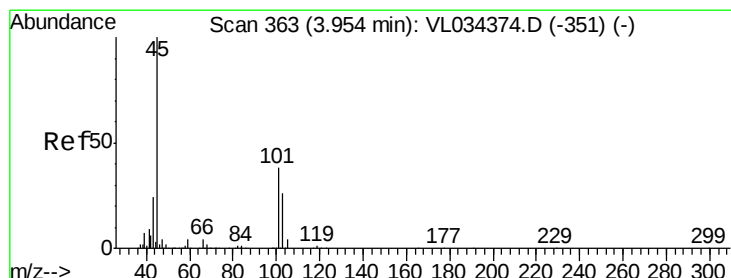
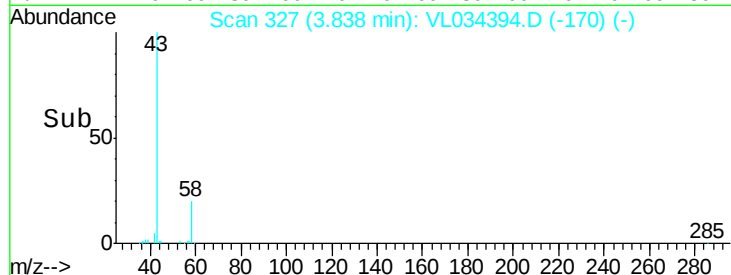
40000

20000

0

Time-->

3.80 3.85 3.90



#19

Isopropyl Alcohol

Concen: 6.270 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL034394.D

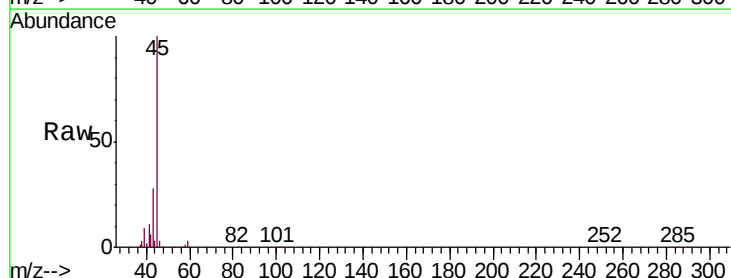
Acq: 20 Nov 2019 00:52

Tgt Ion: 45 Resp: 632033

Ion Ratio Lower Upper

45 100

58 1.8 1.3 1.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

300000

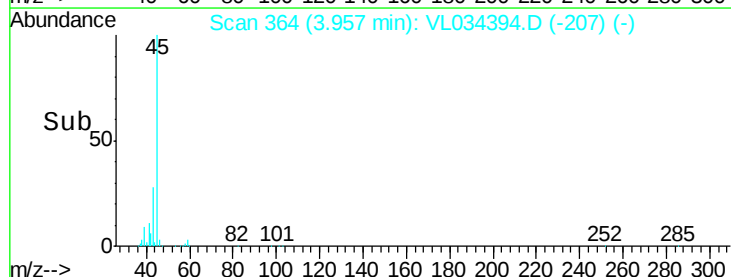
200000

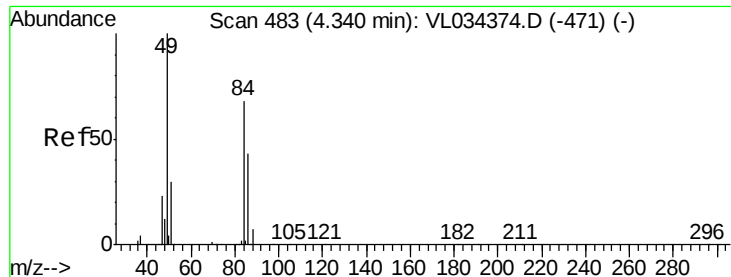
100000

0

Time-->

3.90 3.95 4.00 4.05





#20

Methylene Chloride

Concen: 0.289 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampled :

IA2DL

Tgt Ion: 84 Resp: 14182

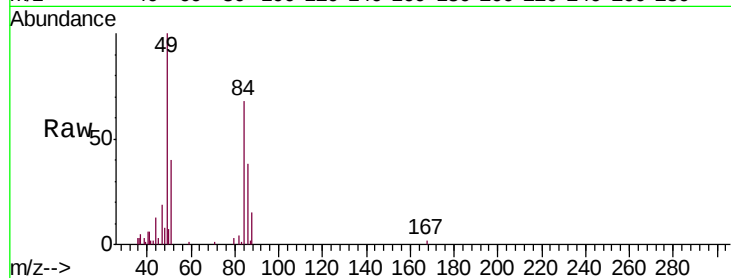
Ion Ratio Lower Upper

84 100

49 158.7 116.8 175.2

51 58.6 35.6 53.4#

86 55.7 50.7 76.1

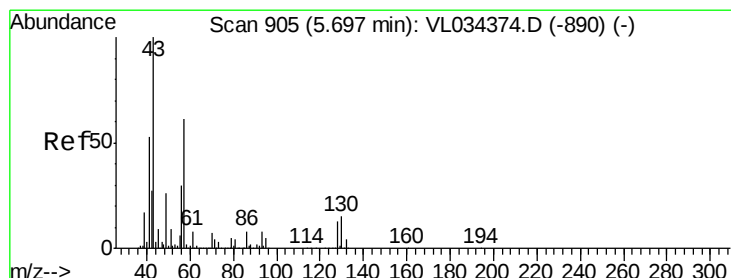
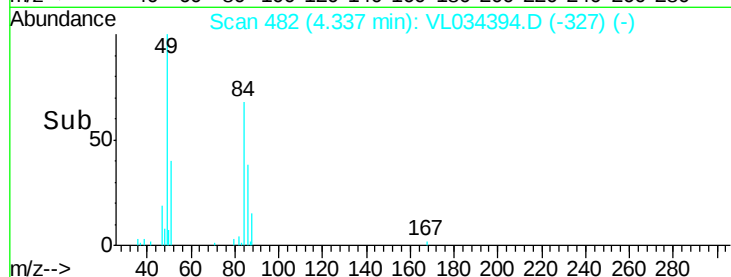
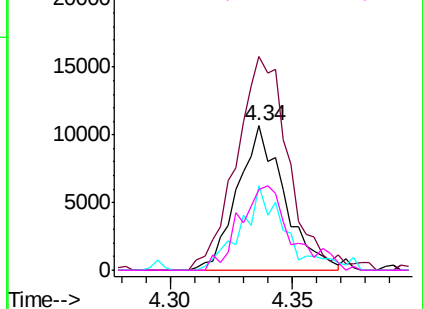


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#26

Hexane

Concen: 0.076 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Tgt Ion: 57 Resp: 8060

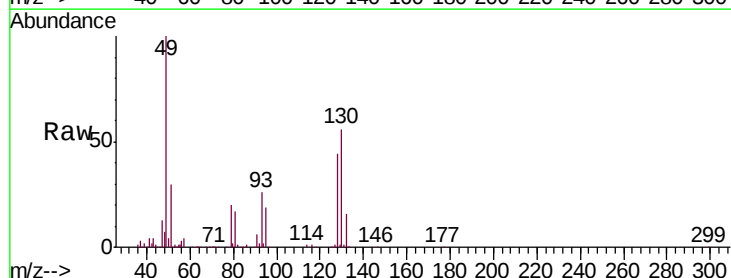
Ion Ratio Lower Upper

57 100

41 0.0 75.0 112.4#

43 264.6 186.6 279.8

56 147.3 41.5 62.3#

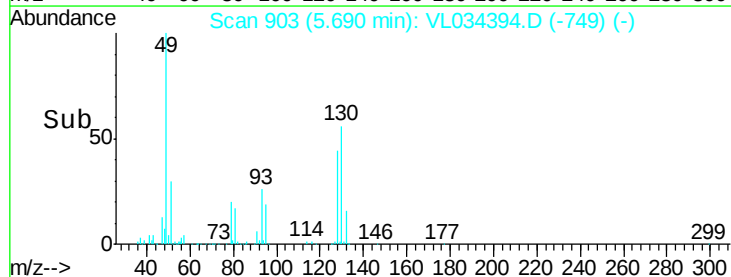
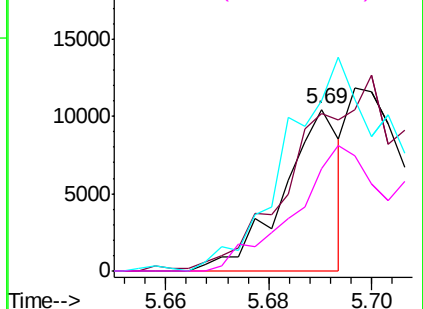


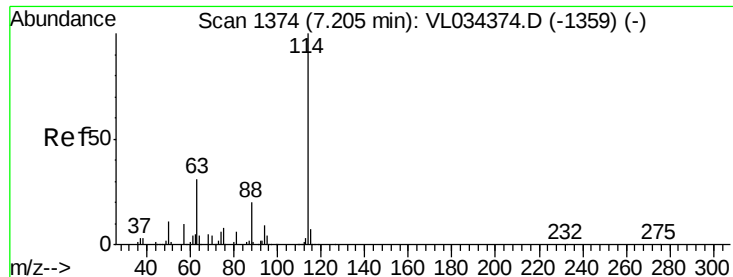
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

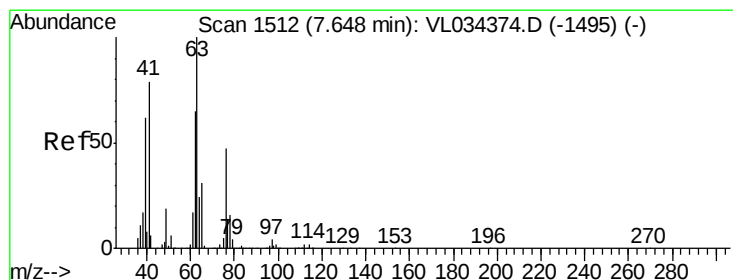
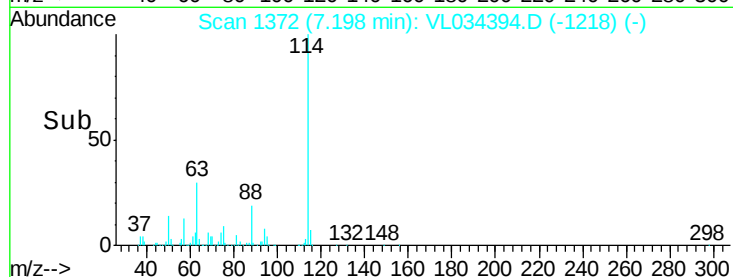
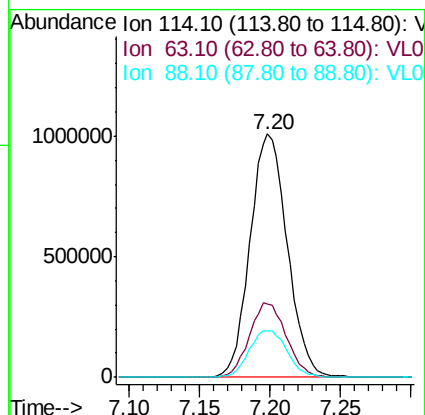
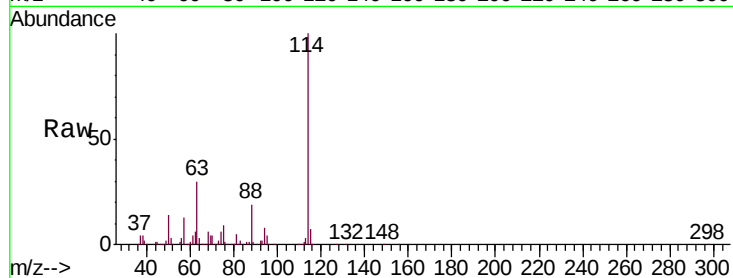




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.01 min
 Lab File: VL034394.D
 Acq: 20 Nov 2019 00:52

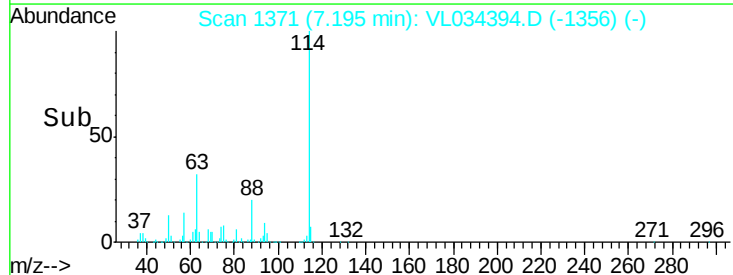
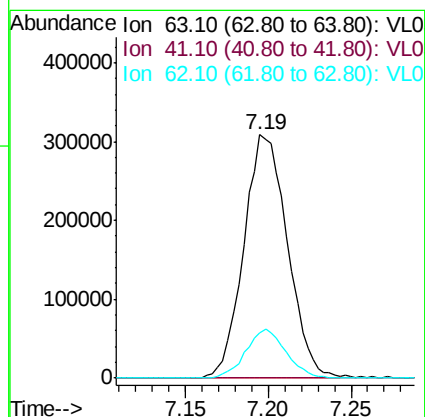
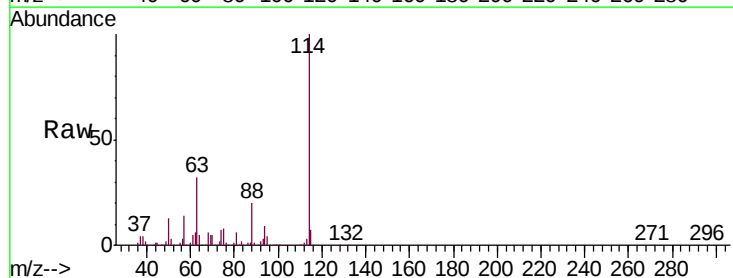
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

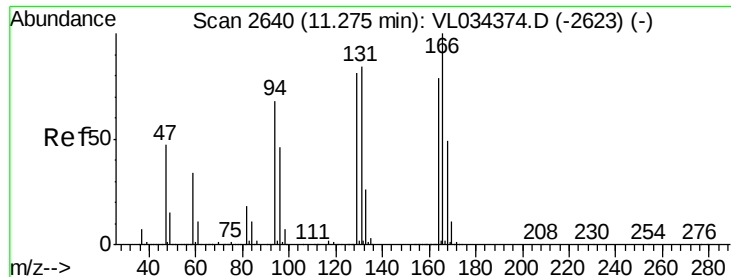
Tgt Ion:114 Resp: 1861109
 Ion Ratio Lower Upper
 114 100
 63 30.5 24.2 36.4
 88 19.8 15.9 23.9



#39
 1,2-Dichloropropane
 Concen: 7.157 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.45 min
 Lab File: VL034394.D
 Acq: 20 Nov 2019 00:52

Tgt Ion: 63 Resp: 564449
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 18.5 52.3 78.5#

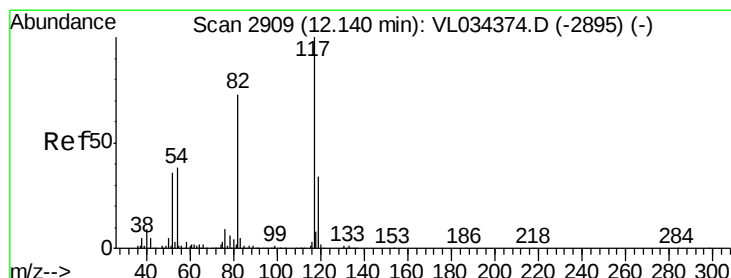
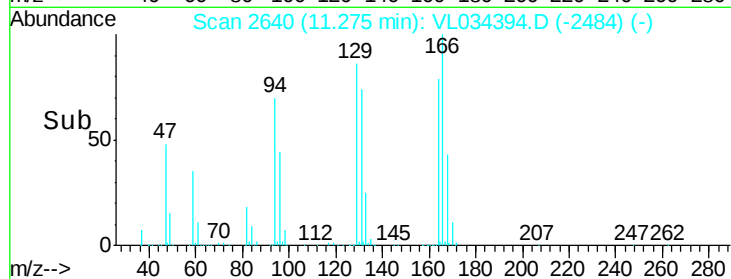
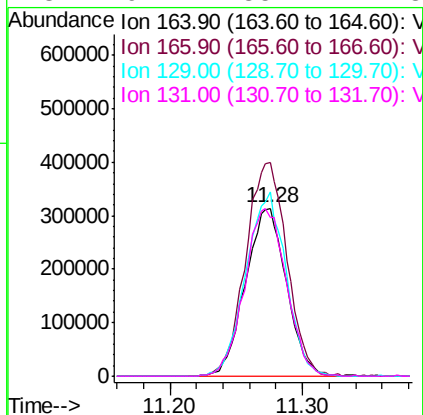
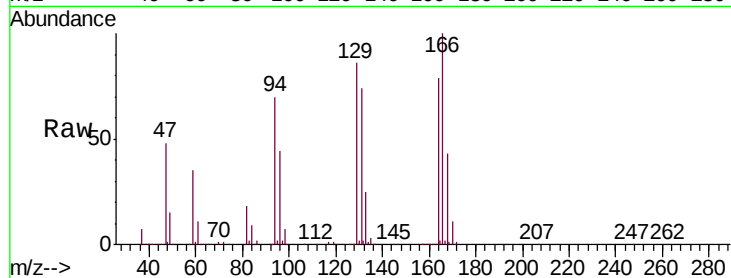




#52
Tetrachloroethene
Concen: 8.380 ppbv
RT: 11.28 min Scan# 2640
Delta R.T. 0.00 min
Lab File: VL034394.D
Acq: 20 Nov 2019 00:52

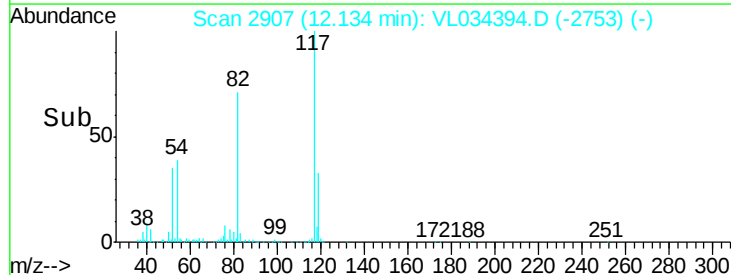
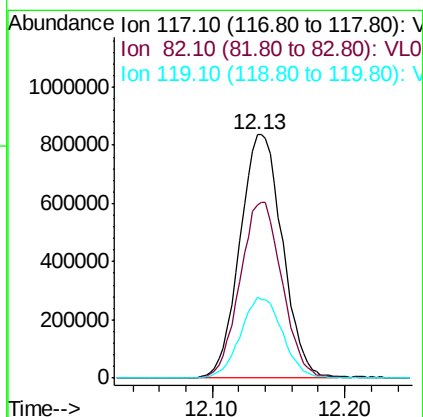
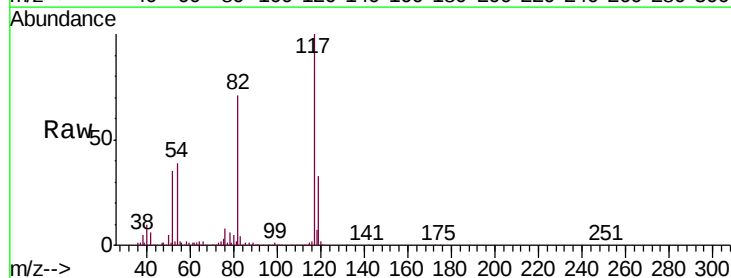
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

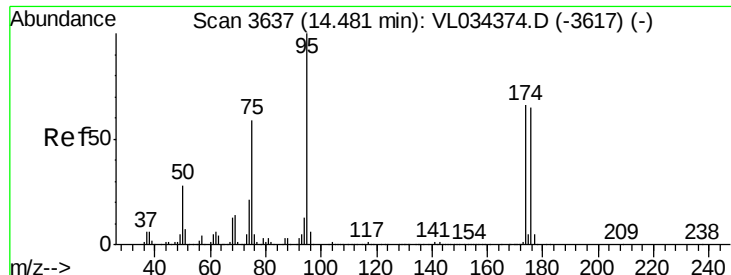
Tgt Ion:164 Resp: 674555
Ion Ratio Lower Upper
164 100
166 127.2 101.7 152.5
129 109.5 82.6 123.8
131 94.4 85.2 127.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034394.D
Acq: 20 Nov 2019 00:52

Tgt Ion:117 Resp: 1864243
Ion Ratio Lower Upper
117 100
82 71.7 57.5 86.3
119 32.8 25.4 38.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.897 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034394.D

Acq: 20 Nov 2019 00:52

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

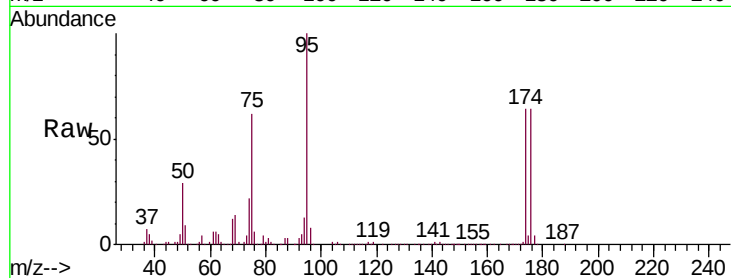
Tgt Ion: 95 Resp: 1552134

Ion Ratio Lower Upper

95 100

174 66.2 52.2 78.2

175 4.7 3.8 5.8



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

