

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031720\
 Data File : VL034923.D
 Acq On : 17 Mar 2020 20:03
 Operator : SY/AP
 Sample : L1952-03DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Mar 18 07:00:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1065304	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2288307	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2245810	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1869475	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

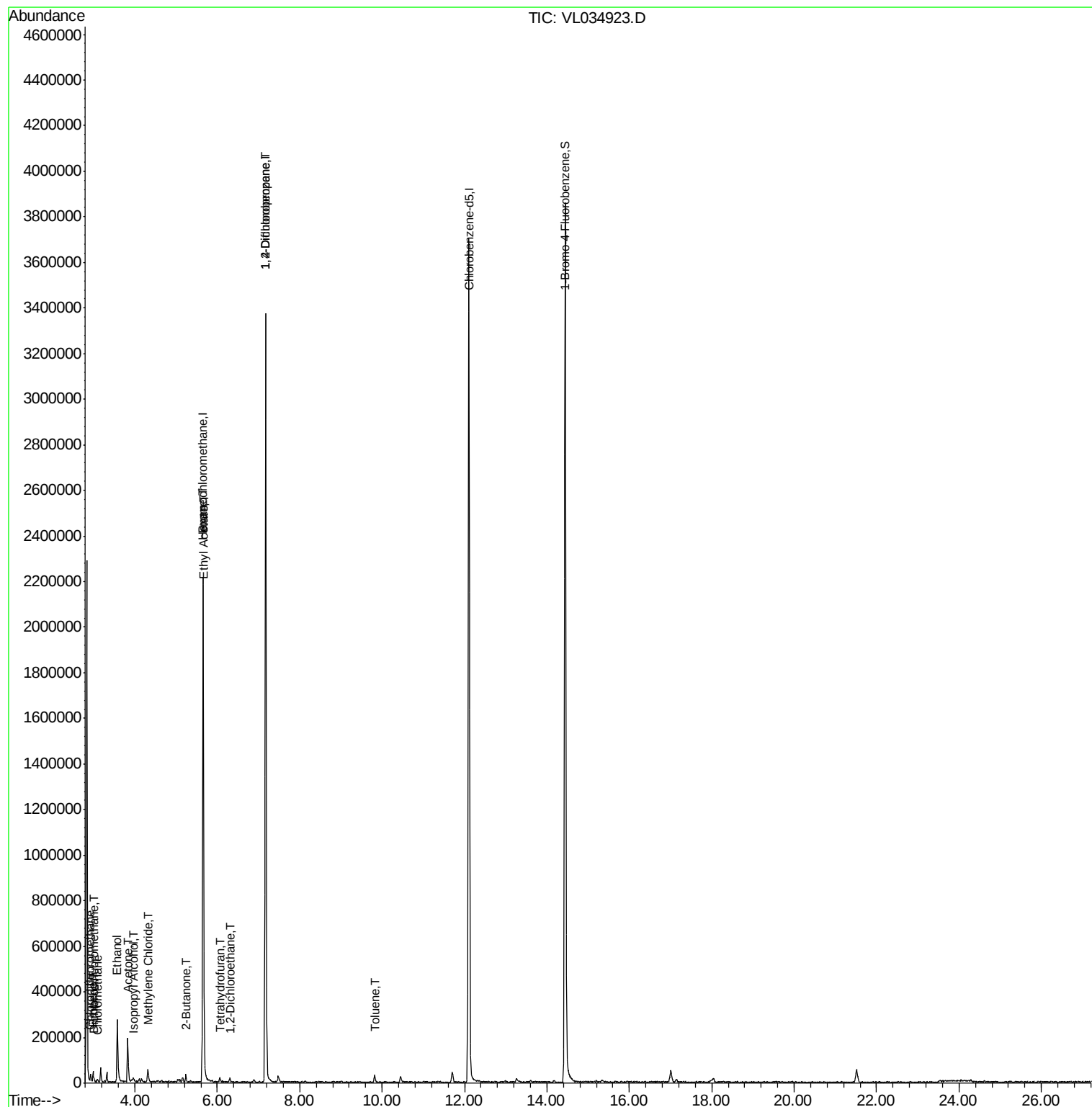
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	9195	0.063	ppbv #	86
3) Chlorodifluoromethane	2.92	51	23392	0.197	ppbv #	67
4) Chloromethane	3.10	50	2992	0.044	ppbv	98
9) Propene	2.98	41	5923	0.104	ppbv	89
13) Ethanol	3.57	45	285443	16.525	ppbv	95
15) Acetone	3.83	43	180440	1.307	ppbv	95
19) Isopropyl Alcohol	3.95	45	11567	0.133	ppbv #	1
20) Methylene Chloride	4.31	84	17234	0.395	ppbv #	71
25) Ethyl Acetate	5.67	43	10167	0.041	ppbv #	66
26) Hexane	5.66	57	8702	0.082	ppbv #	1
34) 2-Butanone	5.24	43	29666	0.195	ppbv	95
37) 1,2-Dichloroethane	6.29	62	3967	0.034	ppbv #	81
39) 1,2-Dichloropropane	7.17	63	625452	7.740	ppbv #	22
41) Tetrahydrofuran	6.06	42	3585	0.044	ppbv #	28
53) Toluene	9.81	91	10110	0.043	ppbv #	20

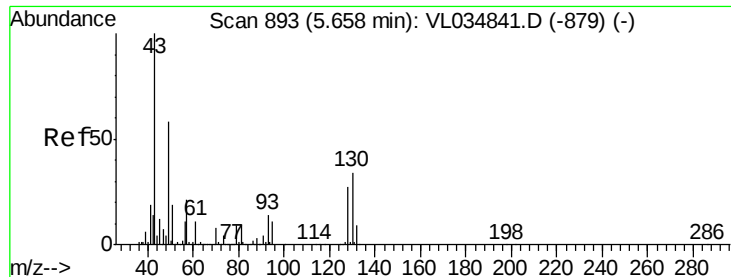
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

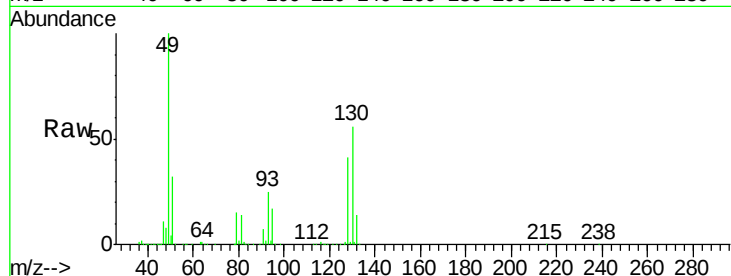
Tgt Ion: 49 Resp: 1065304

Ion Ratio Lower Upper

49 100

128 45.0 23.4 70.3

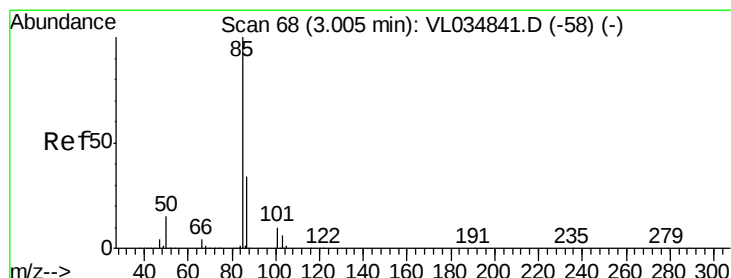
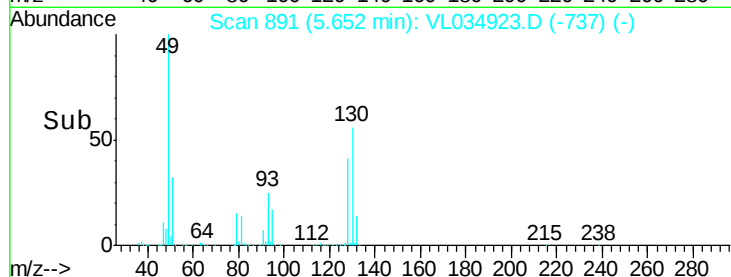
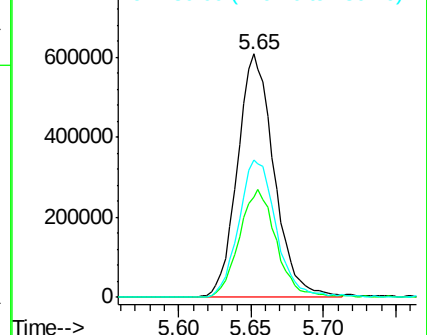
130 58.1 30.0 90.0



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: 0.063 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL034923.D

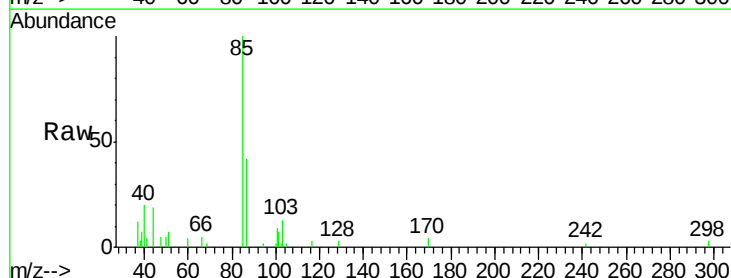
Acq: 17 Mar 2020 20:03

Tgt Ion: 85 Resp: 9195

Ion Ratio Lower Upper

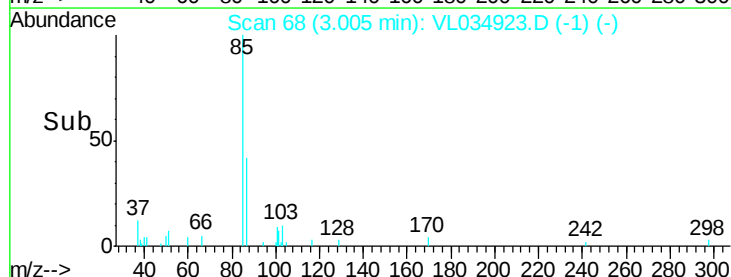
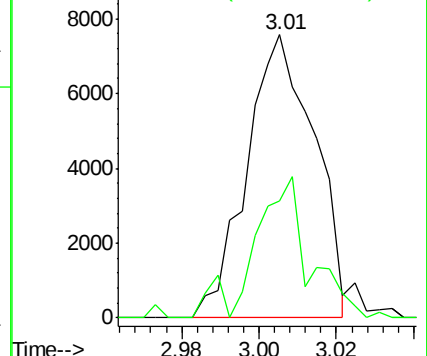
85 100

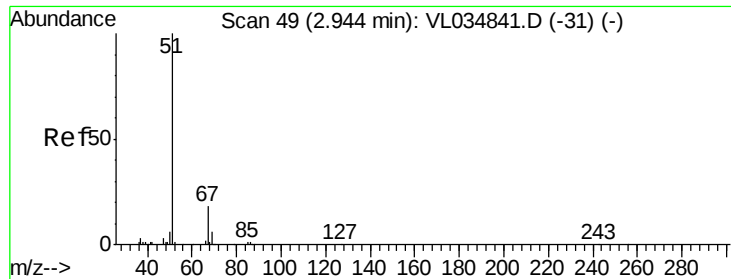
87 41.5 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.197 ppbv

RT: 2.92 min Scan# 41

Delta R.T. -0.03 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA_L

ClientSampleId :

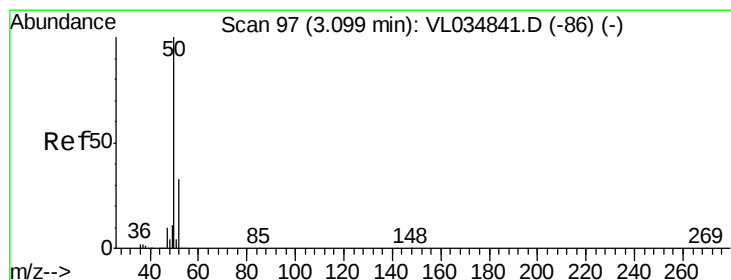
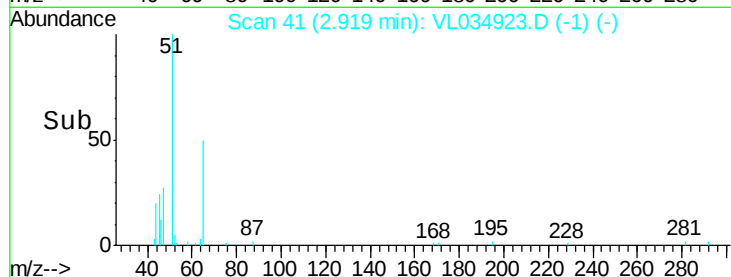
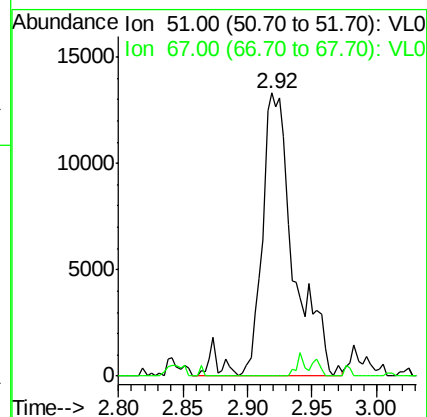
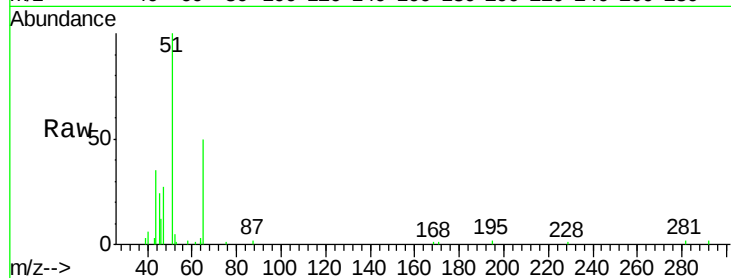
IA-2DL

Tgt Ion: 51 Resp: 23392

Ion Ratio Lower Upper

51 100

67 3.4 14.3 21.5#



#4

Chloromethane

Concen: 0.044 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034923.D

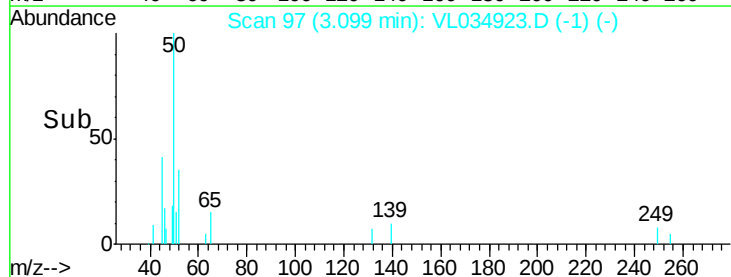
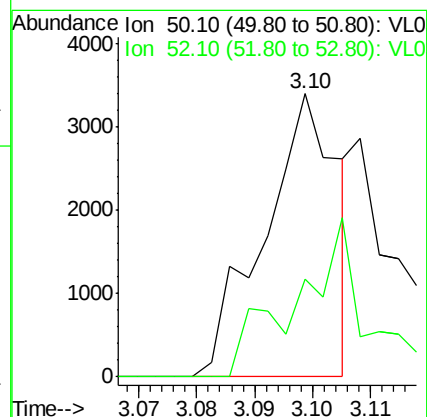
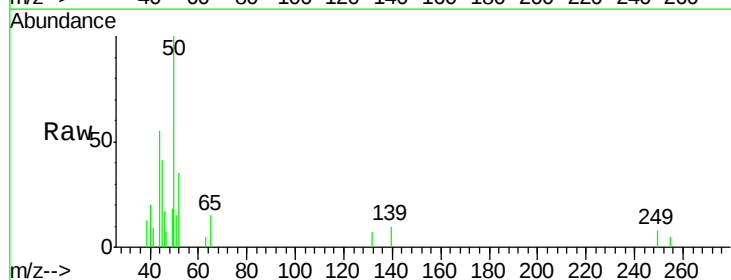
Acq: 17 Mar 2020 20:03

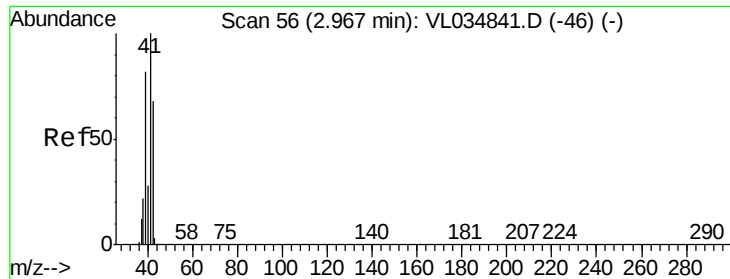
Tgt Ion: 50 Resp: 2992

Ion Ratio Lower Upper

50 100

52 34.5 26.8 40.2





#9

Propene

Concen: 0.104 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA_L

ClientSampleId :

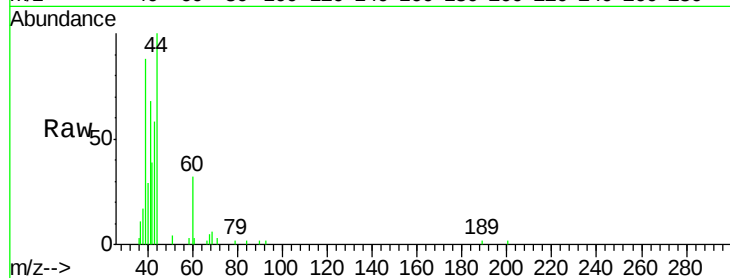
IA-2DL

Tgt Ion: 41 Resp: 5923

Ion Ratio Lower Upper

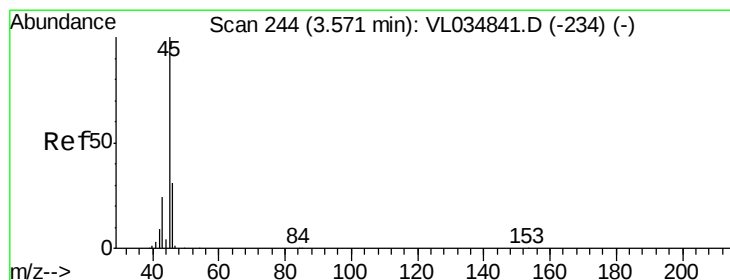
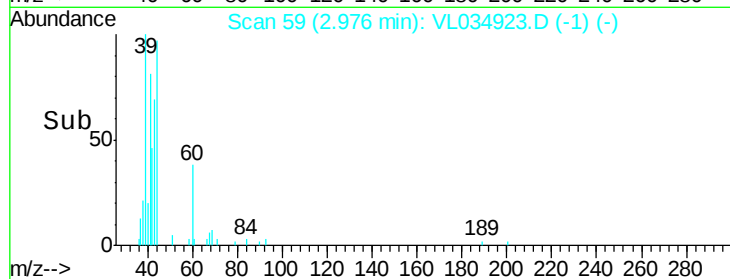
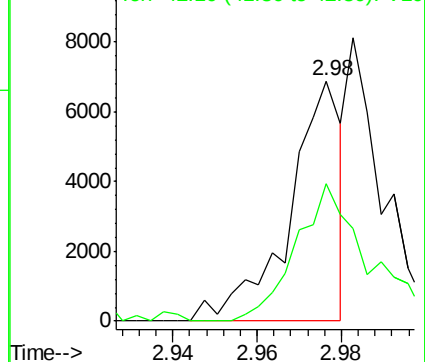
41 100

42 77.9 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 16.525 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL034923.D

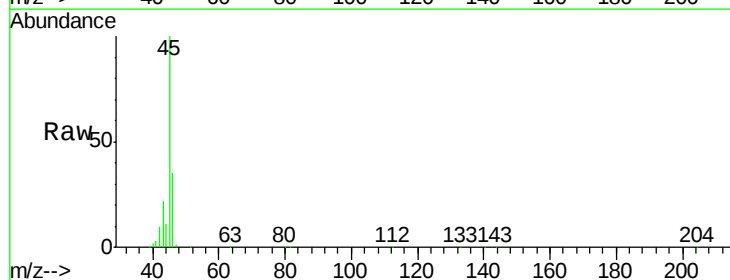
Acq: 17 Mar 2020 20:03

Tgt Ion: 45 Resp: 285443

Ion Ratio Lower Upper

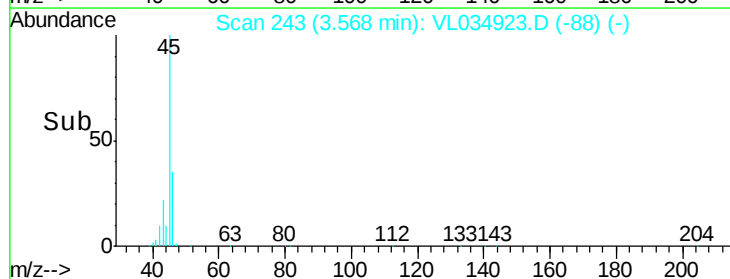
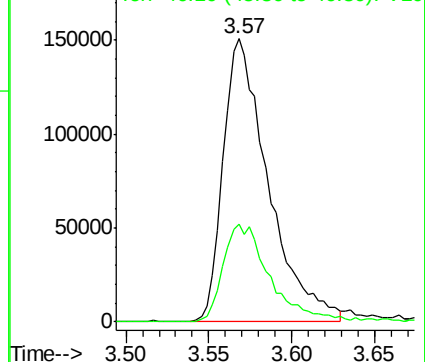
45 100

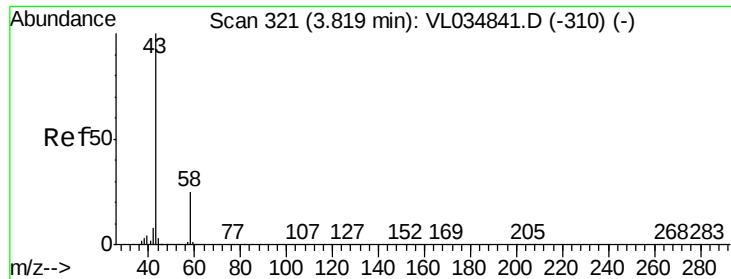
46 36.7 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.307 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA_L

ClientSampleId :

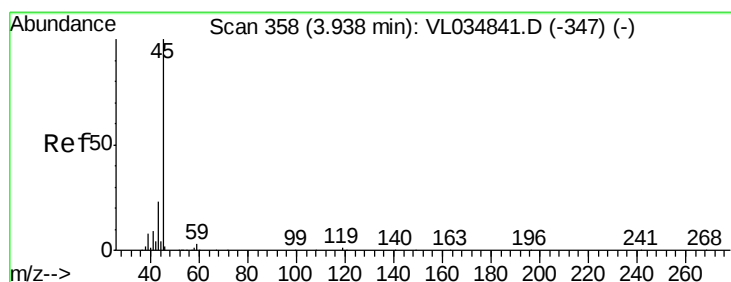
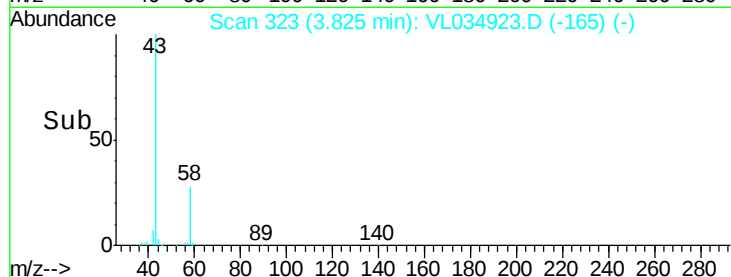
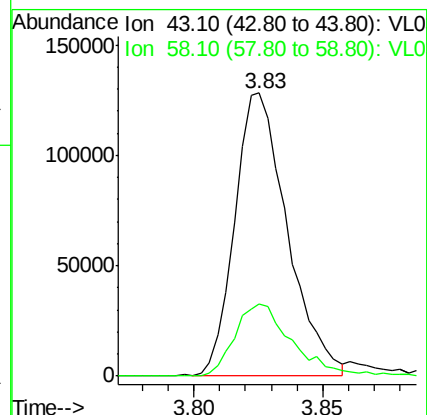
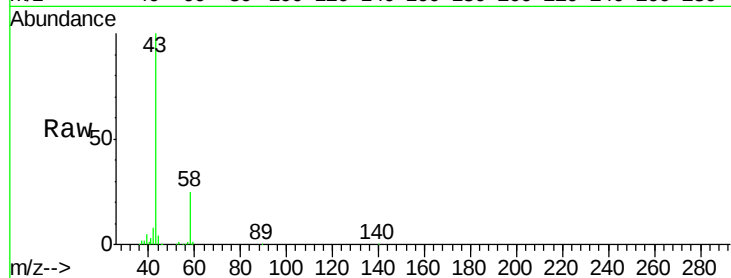
IA-2DL

Tgt Ion: 43 Resp: 180440

Ion Ratio Lower Upper

43 100

58 28.6 21.0 31.6



#19

Isopropyl Alcohol

Concen: 0.133 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL034923.D

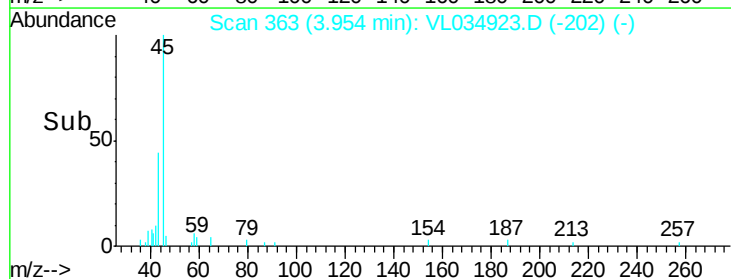
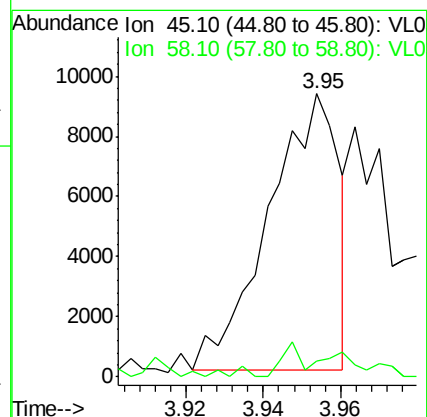
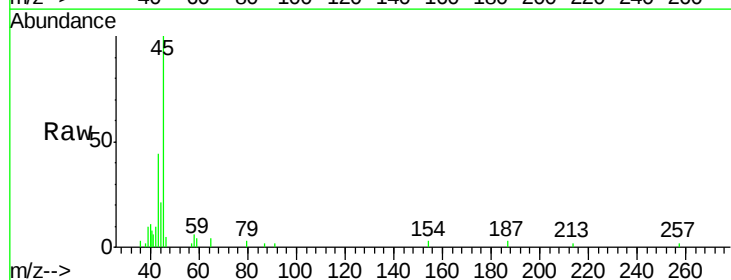
Acq: 17 Mar 2020 20:03

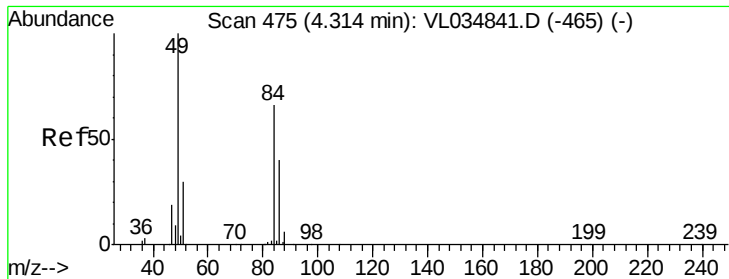
Tgt Ion: 45 Resp: 11567

Ion Ratio Lower Upper

45 100

58 449.1 30.5 45.7#





#20

Methylene Chloride

Concen: 0.395 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.00 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tgt Ion: 84 Resp: 17234

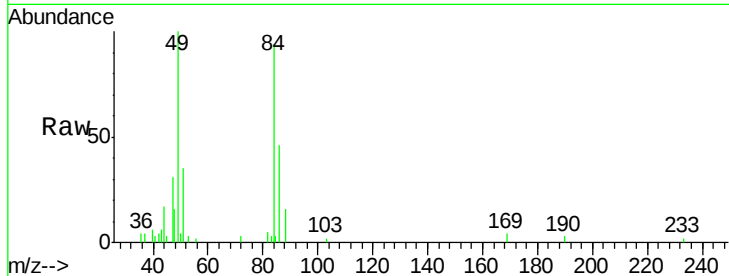
Ion Ratio Lower Upper

84 100

49 103.3 121.5 182.3#

51 36.5 36.6 55.0#

86 48.0 48.2 72.2#

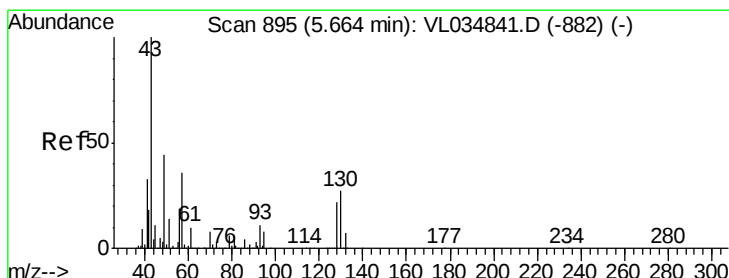
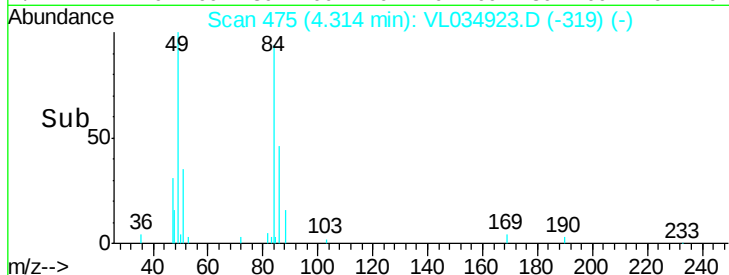
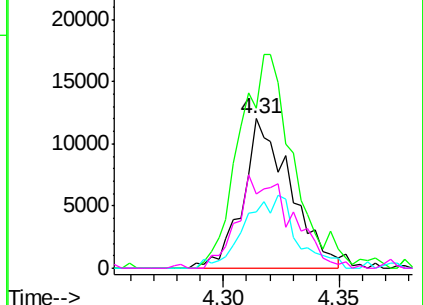


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.041 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Tgt Ion: 43 Resp: 10167

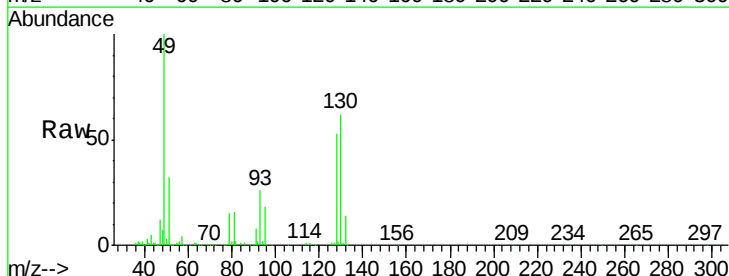
Ion Ratio Lower Upper

43 100

45 28.6 8.2 12.2#

61 0.0 7.8 11.6#

70 0.0 5.8 8.8#

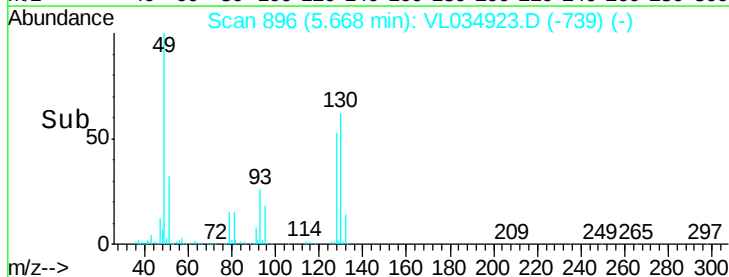
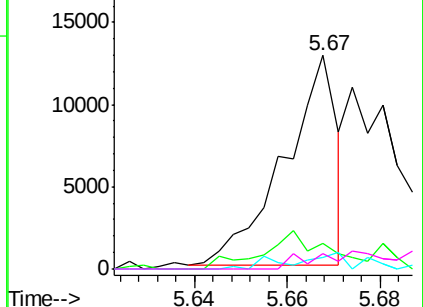


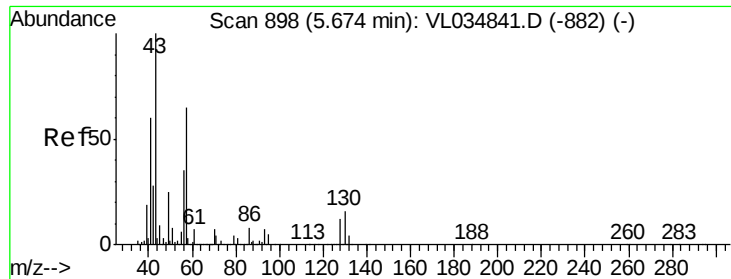
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

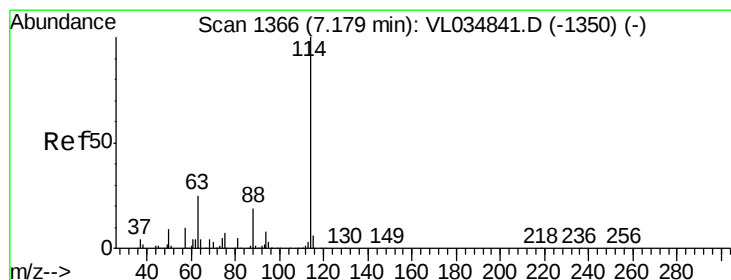
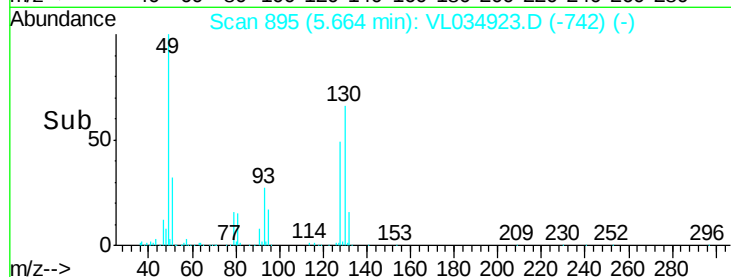
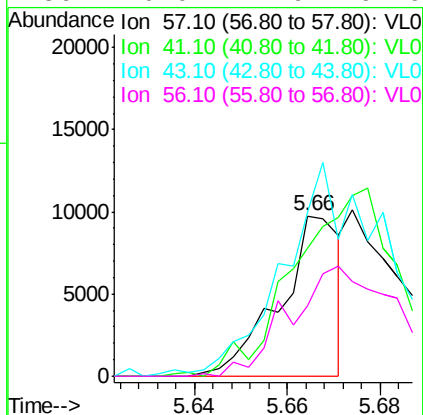
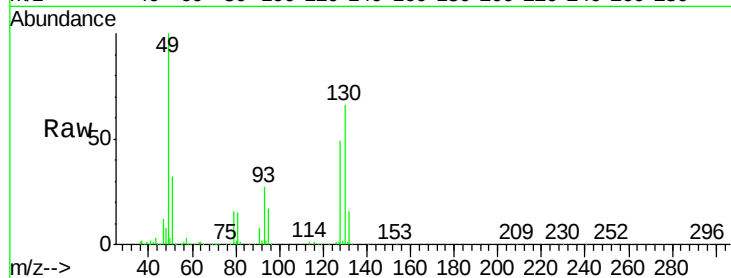




#26
Hexane
Concen: 0.082 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034923.D
Acq: 17 Mar 2020 20:03

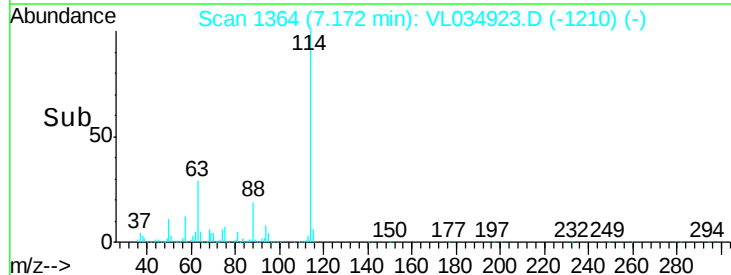
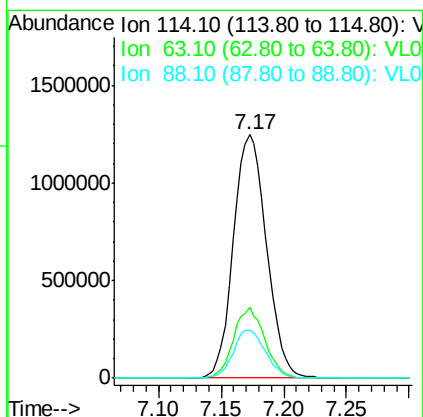
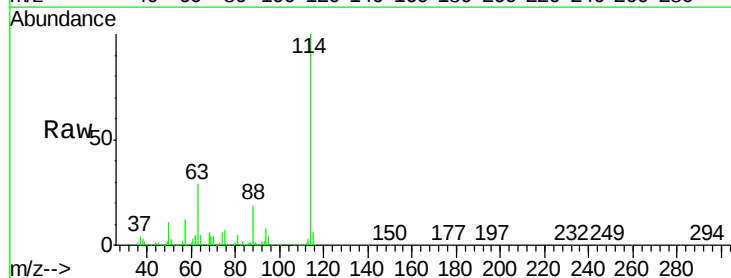
Instrument :
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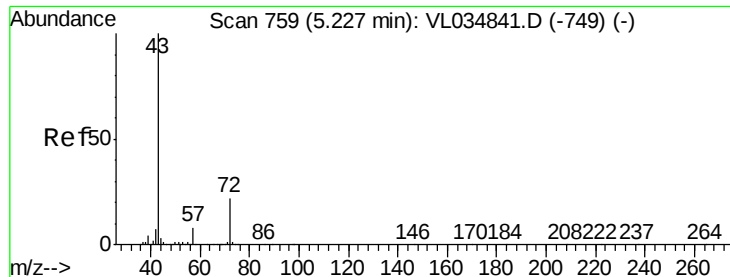
Tgt Ion: 57 Resp: 8702
Ion Ratio Lower Upper
57 100
41 0.0 72.6 109.0#
43 0.0 183.8 275.6#
56 0.0 41.9 62.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034923.D
Acq: 17 Mar 2020 20:03

Tgt Ion: 114 Resp: 2288307
Ion Ratio Lower Upper
114 100
63 27.5 20.6 31.0
88 19.2 15.0 22.6

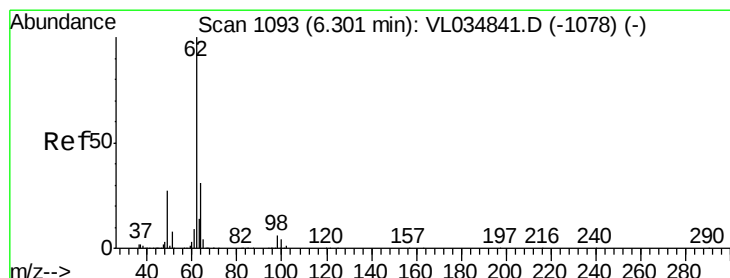
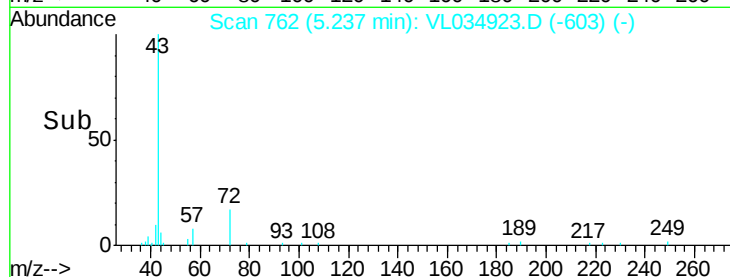
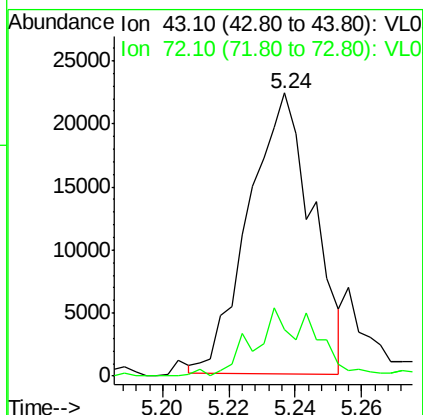
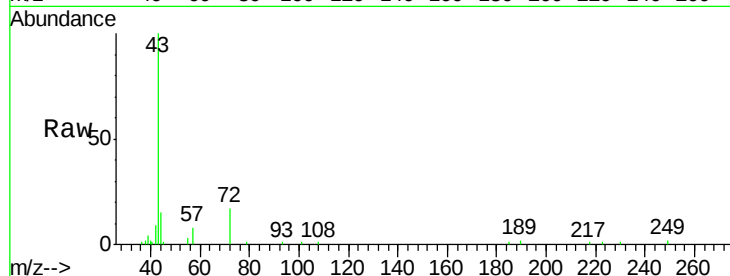




#34
2-Butanone
Concen: 0.195 ppbv
RT: 5.24 min Scan# 762
Delta R.T. 0.01 min
Lab File: VL034923.D
Acq: 17 Mar 2020 20:03

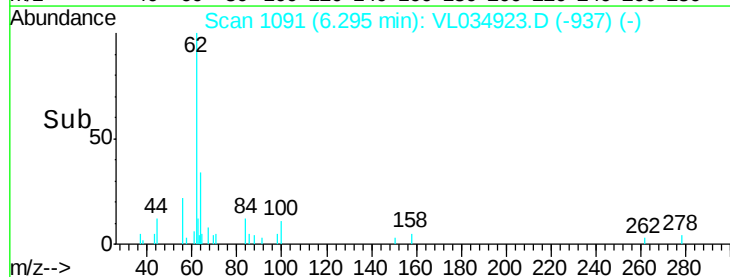
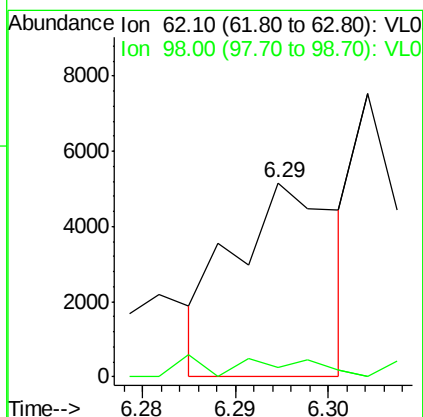
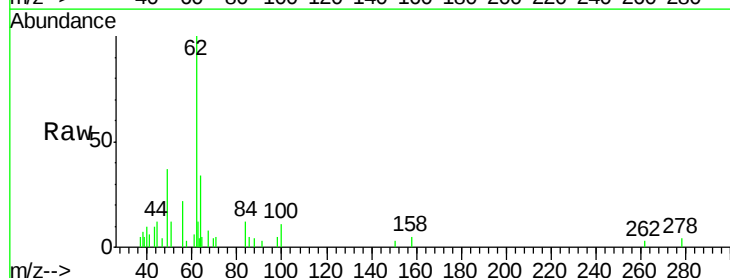
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

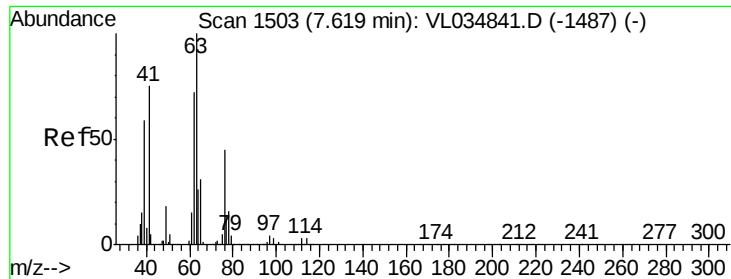
Tgt Ion: 43 Resp: 29666
Ion Ratio Lower Upper
43 100
72 24.2 17.6 26.4



#37
1,2-Dichloroethane
Concen: 0.034 ppbv
RT: 6.29 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VL034923.D
Acq: 17 Mar 2020 20:03

Tgt Ion: 62 Resp: 3967
Ion Ratio Lower Upper
62 100
98 0.0 5.2 7.8#

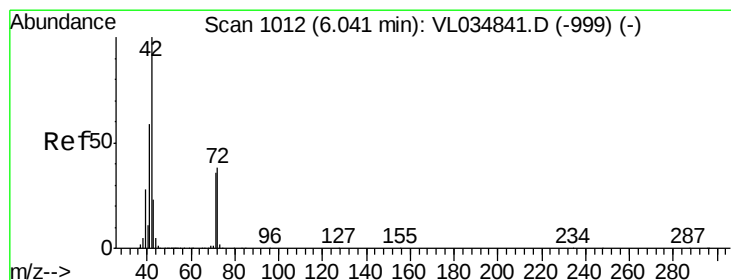
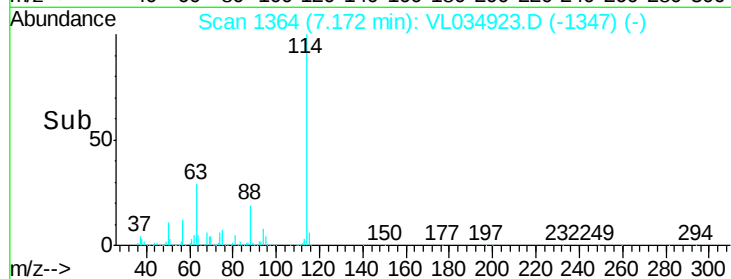
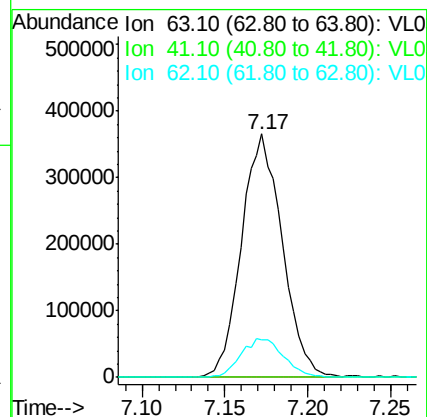
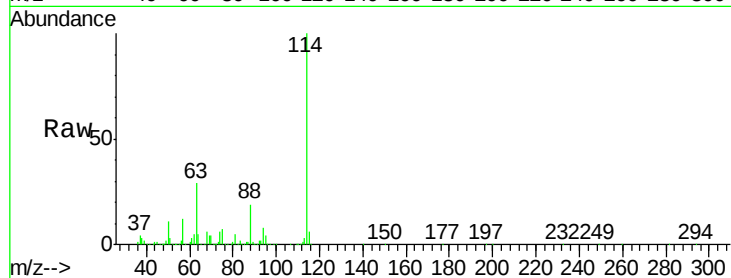




#39
 1,2-Dichloropropane
 Concen: 7.740 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL034923.D
 Acq: 17 Mar 2020 20:03

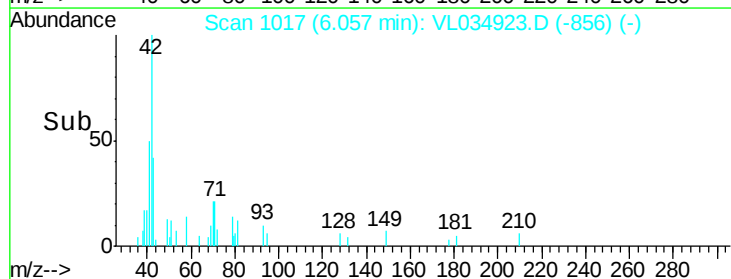
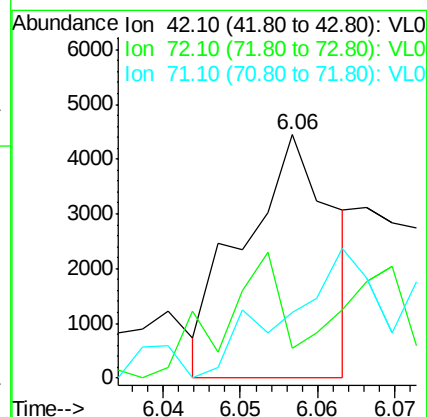
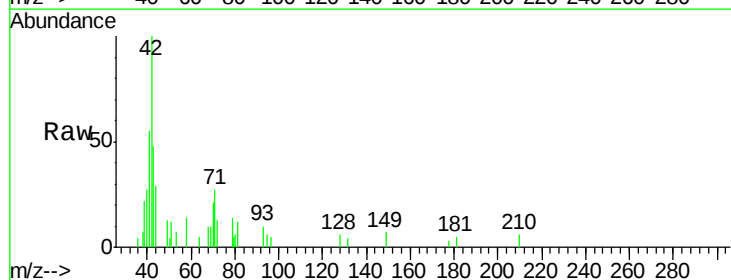
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

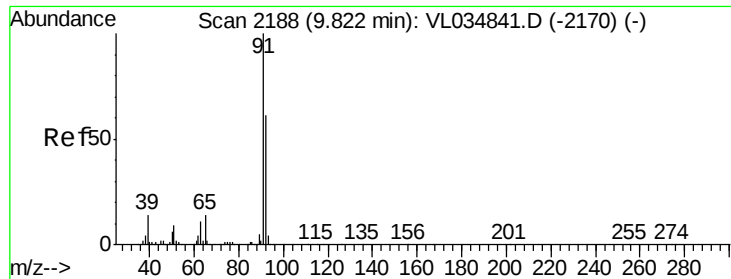
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.1	59.8	89.8#
62	15.4	57.6	86.4#



#41
 Tetrahydrofuran
 Concen: 0.044 ppbv
 RT: 6.06 min Scan# 1017
 Delta R.T. 0.02 min
 Lab File: VL034923.D
 Acq: 17 Mar 2020 20:03

Tgt Ion	Ratio	Lower	Upper
42	100		
72	87.6	30.8	46.2#
71	0.0	30.1	45.1#





#53

Toluene

Concen: 0.043 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA_L

ClientSampleId :

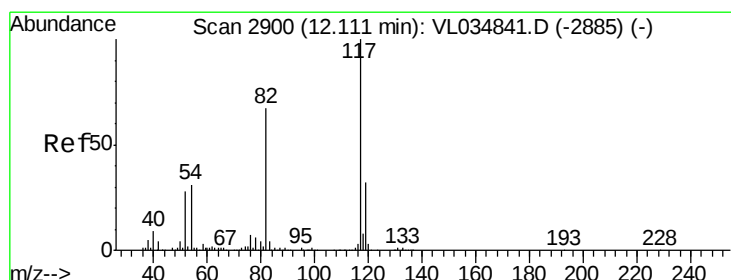
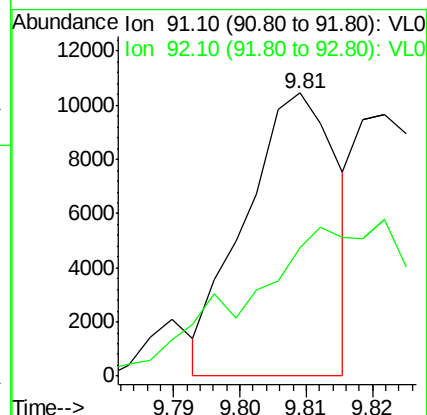
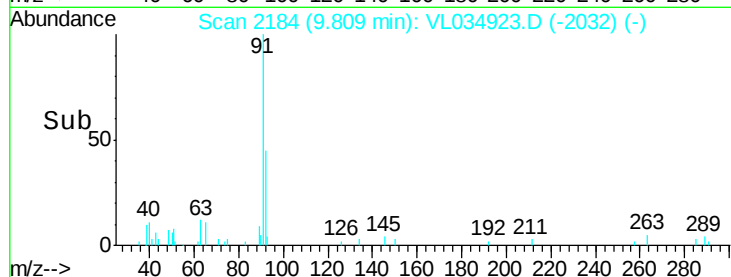
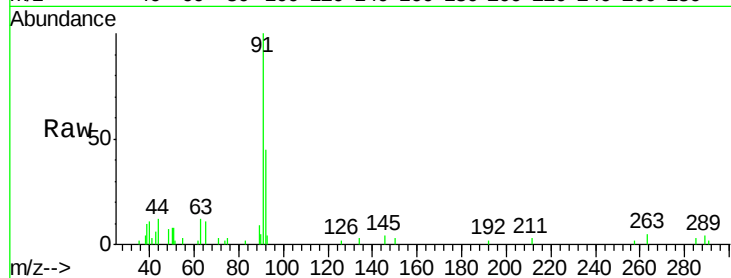
IA-2DL

Tgt Ion: 91 Resp: 10110

Ion Ratio Lower Upper

91 100

92 0.0 48.6 72.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

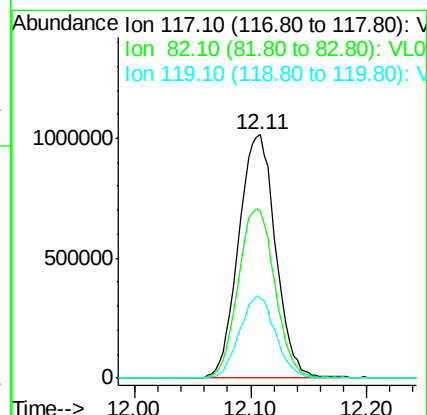
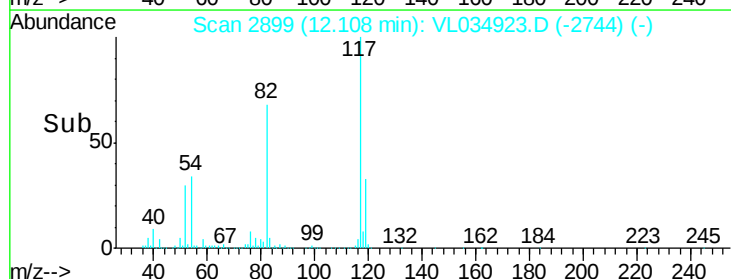
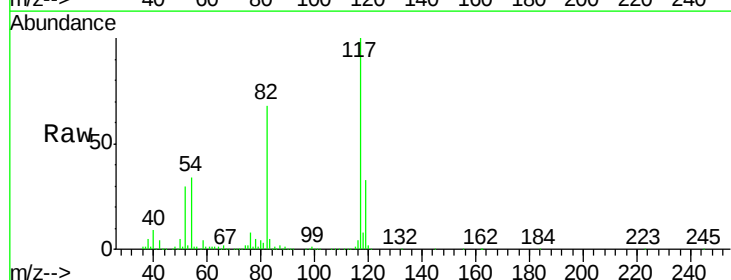
Tgt Ion: 117 Resp: 2245810

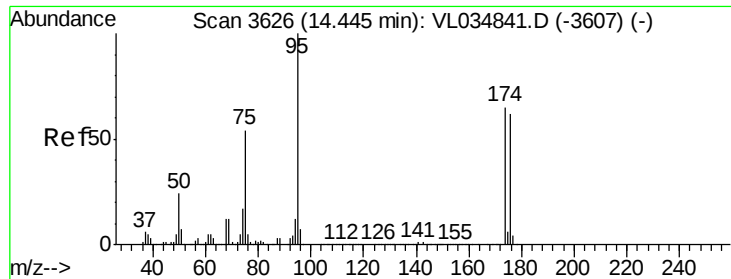
Ion Ratio Lower Upper

117 100

82 69.8 51.1 76.7

119 32.9 27.3 40.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.674 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

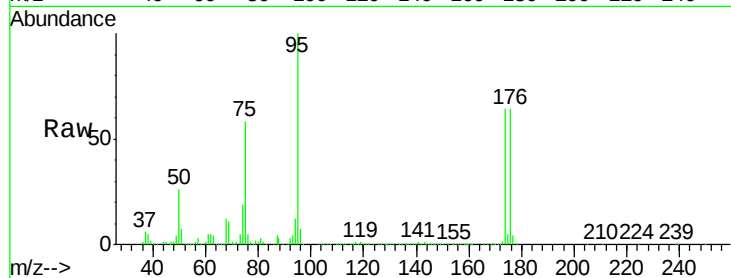
Tgt Ion: 95 Resp: 1869475

Ion Ratio Lower Upper

95 100

174 63.7 55.2 82.8

175 4.7 4.3 6.5



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

