

Data File : VL034607.D
Acq On : 6 Feb 2020 20:14
Operator : SY/AP
Sample : L1435-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-3

Quant Time: Feb 07 07:38:32 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	852287	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	1769806	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.15	117	1701815	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1495572	10.40	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

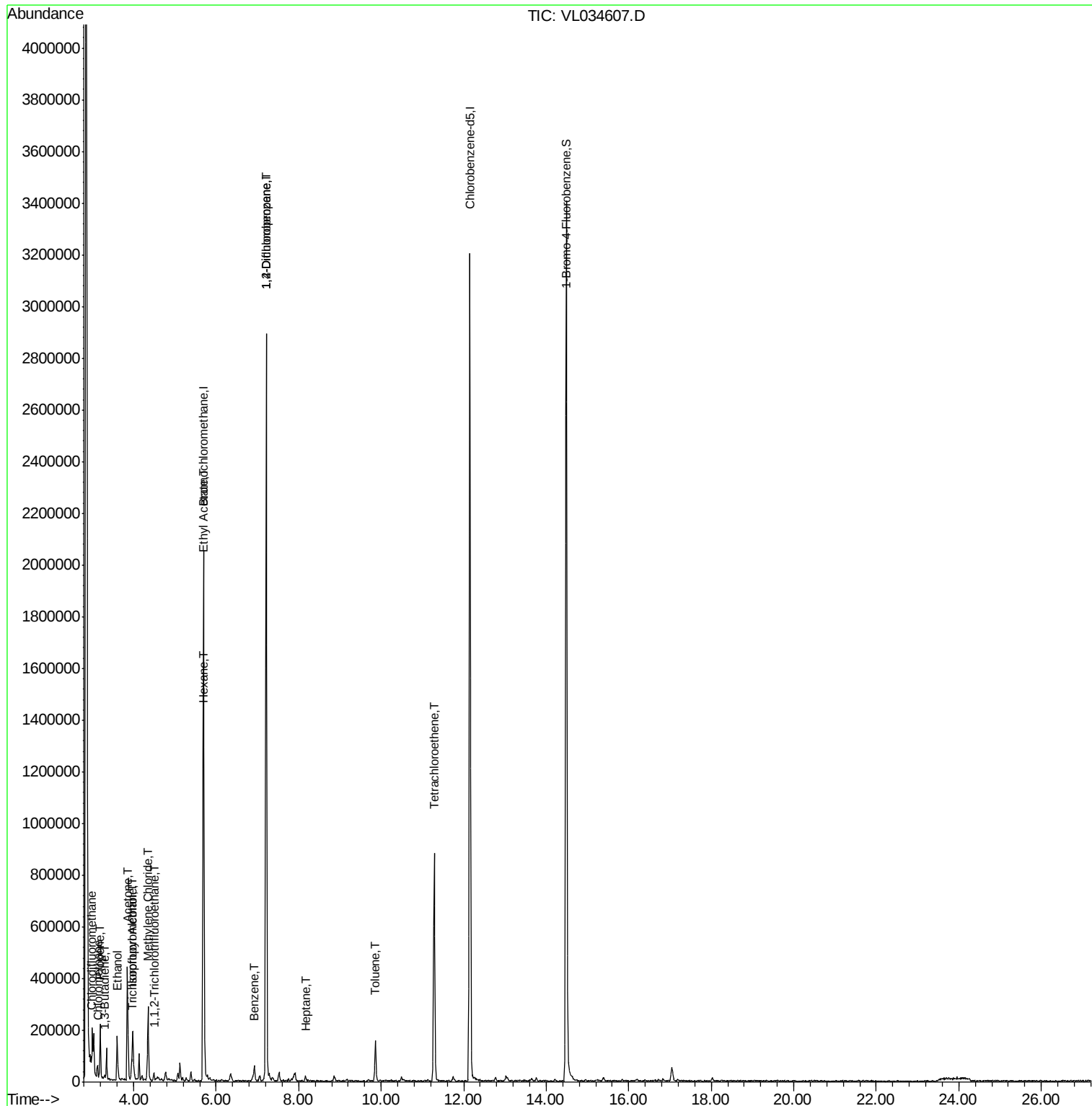
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.97	51	46350	0.450	ppbv #	86
4) Chloromethane	3.12	50	27920	0.443	ppbv #	87
9) Propene	3.19	41	46291	1.154	ppbv	99
10) Heptane	8.17	43	4137	0.041	ppbv #	26
11) Trichlorofluoromethane	3.95	101	18126	0.106	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	3905	0.035	ppbv #	14
13) Ethanol	3.60	45	135999	12.662	ppbv	96
15) Acetone	3.85	43	434515	3.469	ppbv	97
16) 1,3-Butadiene	3.30	39	2157	0.043	ppbv #	78
19) Isopropyl Alcohol	3.98	45	196100	2.683	ppbv #	93
20) Methylene Chloride	4.35	84	86812	1.820	ppbv	93
25) Ethyl Acetate	5.70	43	41607	0.205	ppbv #	82
26) Hexane	5.71	57	54211	0.638	ppbv #	38
36) Benzene	6.92	78	32718	0.208	ppbv	96
39) 1,2-Dichloropropane	7.21	63	523933	8.030	ppbv #	19
52) Tetrachloroethene	11.28	164	183090	2.896	ppbv	98
53) Toluene	9.86	91	45751	0.265	ppbv #	21

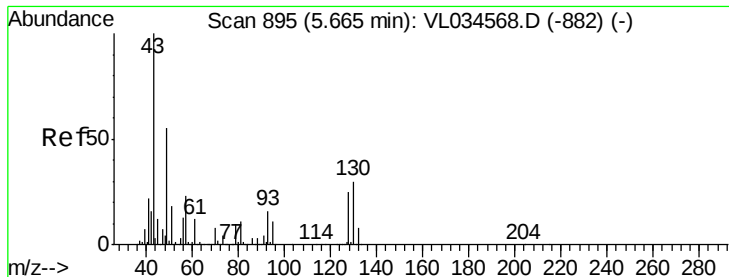
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

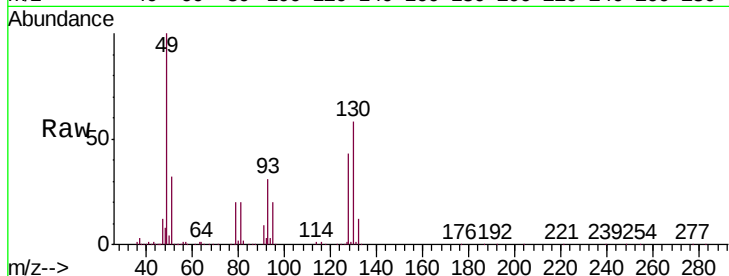
Tgt Ion: 49 Resp: 852287

Ion Ratio Lower Upper

49 100

128 45.4 22.7 68.1

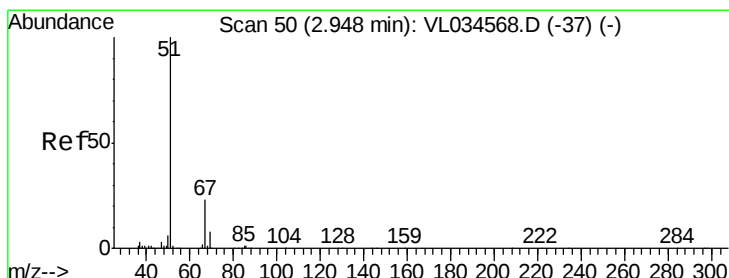
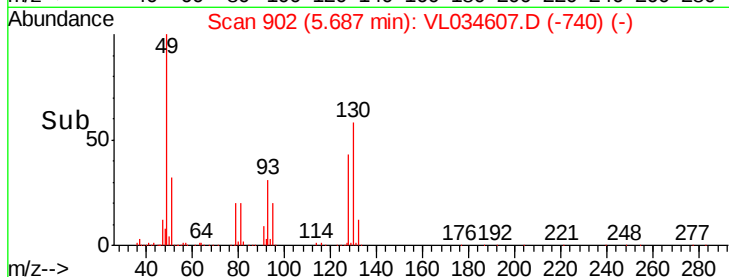
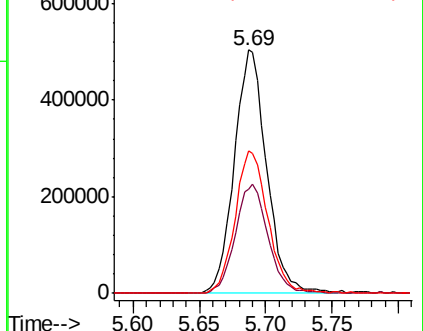
130 60.1 28.6 85.8



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



#3

Chlorodifluoromethane

Concen: 0.450 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.02 min

Lab File: VL034607.D

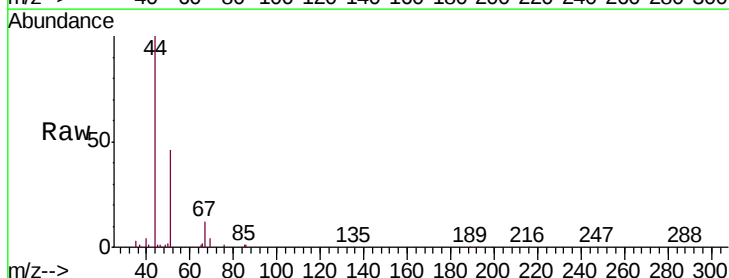
Acq: 6 Feb 2020 20:14

Tgt Ion: 51 Resp: 46350

Ion Ratio Lower Upper

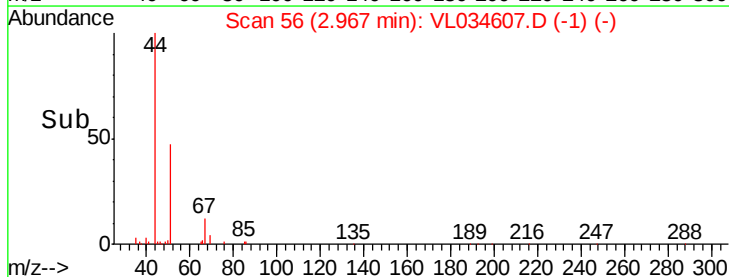
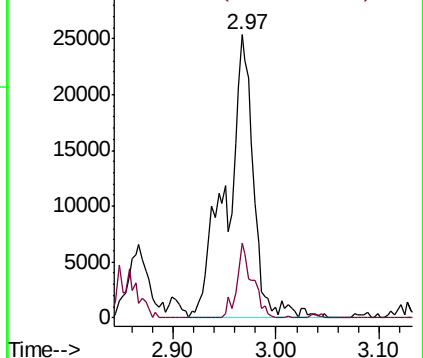
51 100

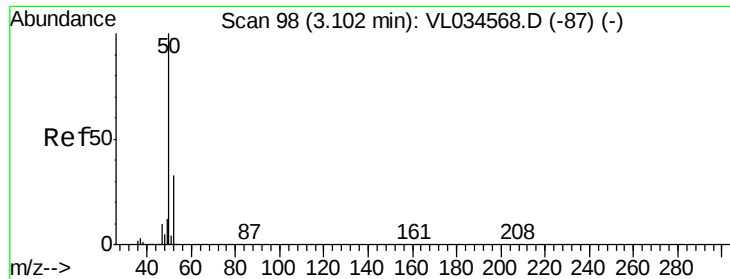
67 15.4 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.443 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.02 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

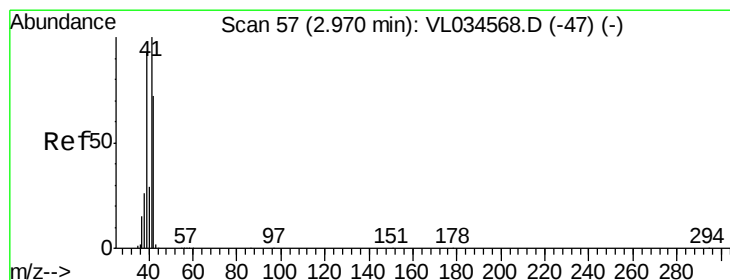
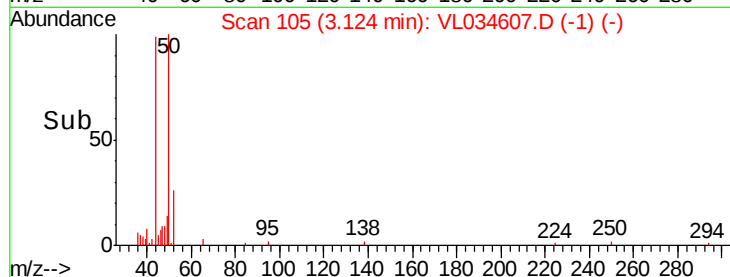
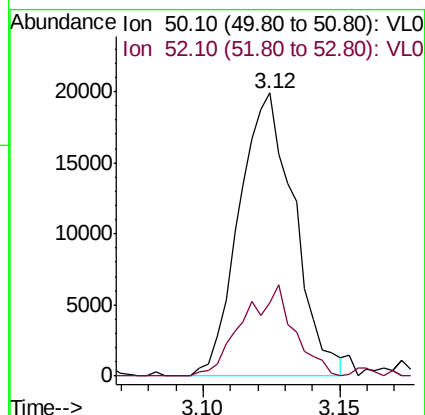
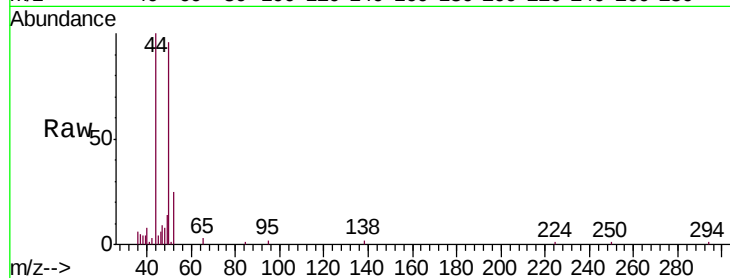
IA-3

Tgt Ion: 50 Resp: 27920

Ion Ratio Lower Upper

50 100

52 25.8 26.6 39.8#



#9

Propene

Concen: 1.154 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.22 min

Lab File: VL034607.D

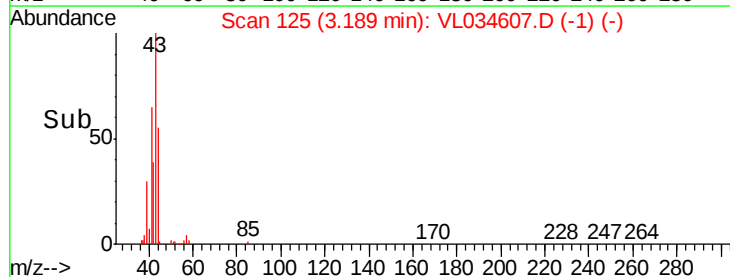
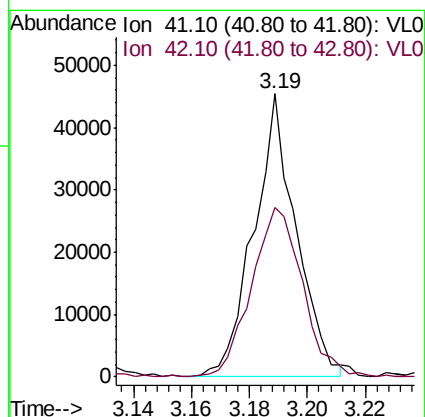
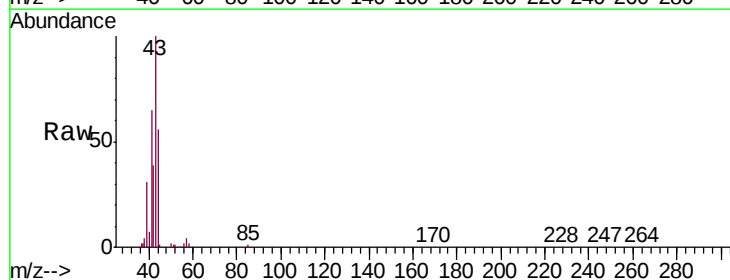
Acq: 6 Feb 2020 20:14

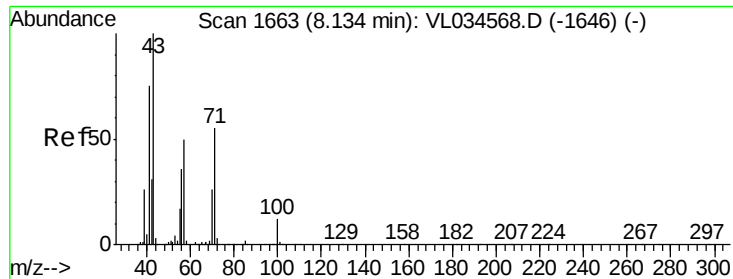
Tgt Ion: 41 Resp: 46291

Ion Ratio Lower Upper

41 100

42 71.7 57.0 85.4

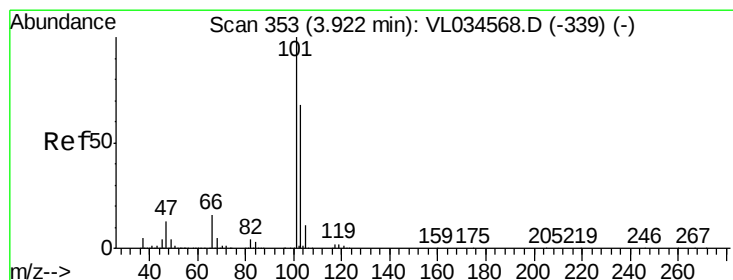
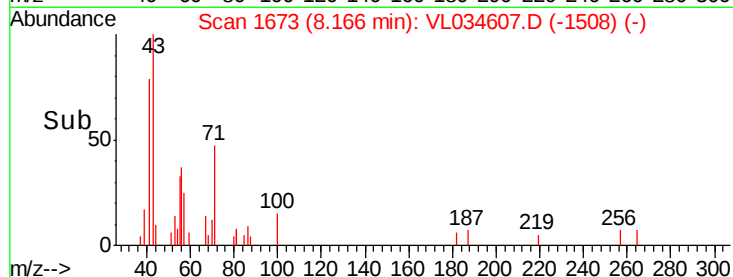
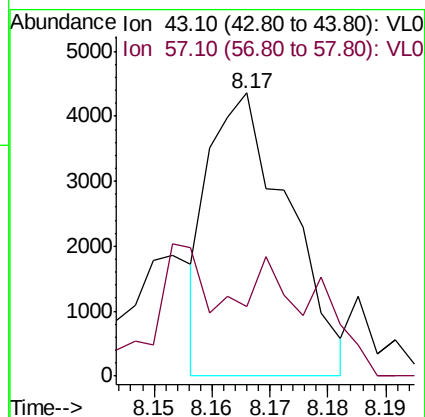
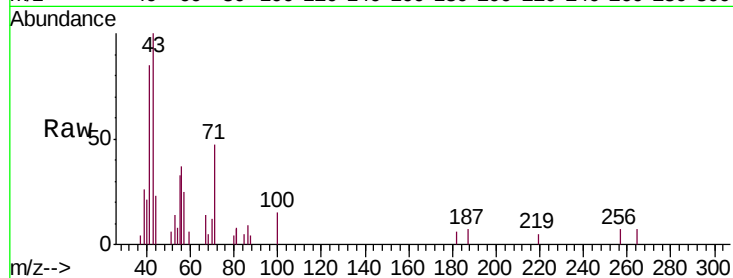




#10
 Heptane
 Concen: 0.041 ppbv
 RT: 8.17 min Scan# 1673
 Delta R.T. 0.03 min
 Lab File: VL034607.D
 Acq: 6 Feb 2020 20:14

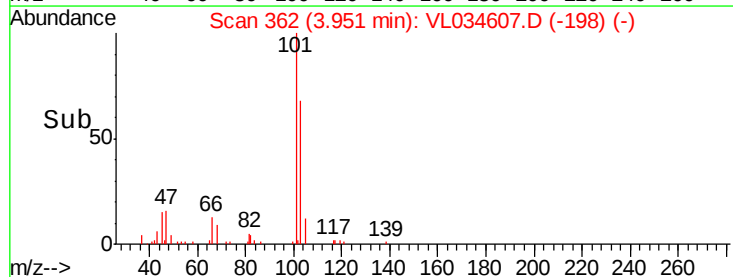
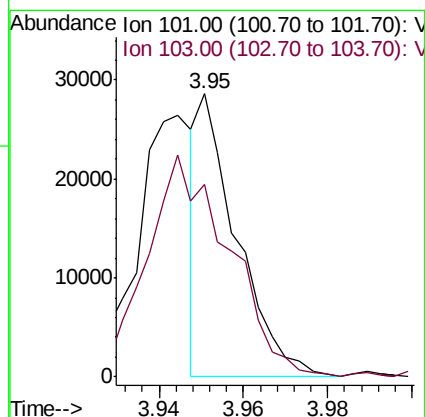
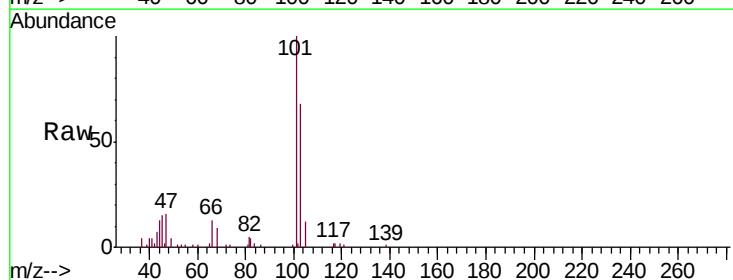
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

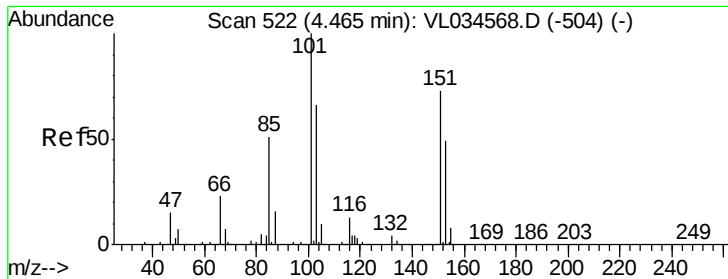
Tgt Ion: 43 Resp: 4137
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.2 61.8#



#11
 Trichlorofluoromethane
 Concen: 0.106 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.03 min
 Lab File: VL034607.D
 Acq: 6 Feb 2020 20:14

Tgt Ion: 101 Resp: 18126
 Ion Ratio Lower Upper
 101 100
 103 68.1 54.4 81.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.035 ppbv

RT: 4.48 min Scan# 528

Delta R.T. 0.02 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

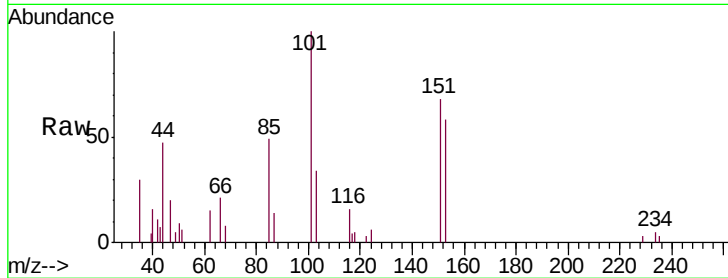
IA-3

Tgt Ion:101 Resp: 3905

Ion Ratio Lower Upper

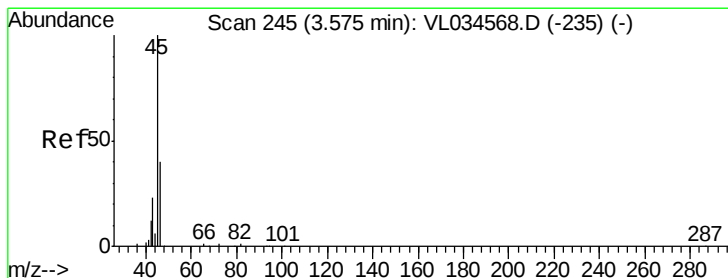
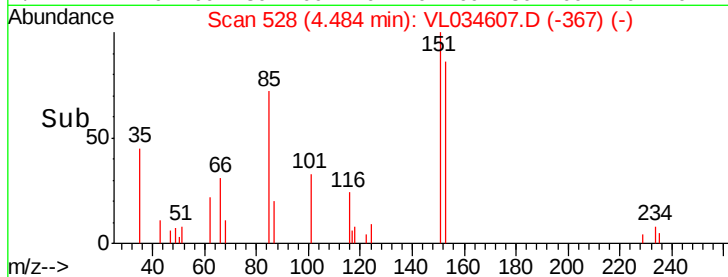
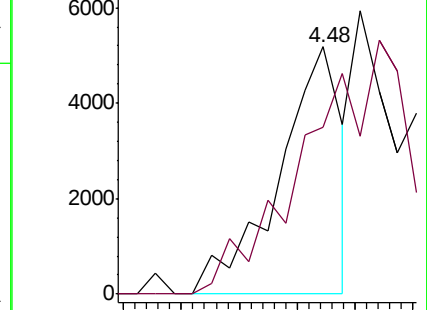
101 100

151 0.0 57.0 85.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.662 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.03 min

Lab File: VL034607.D

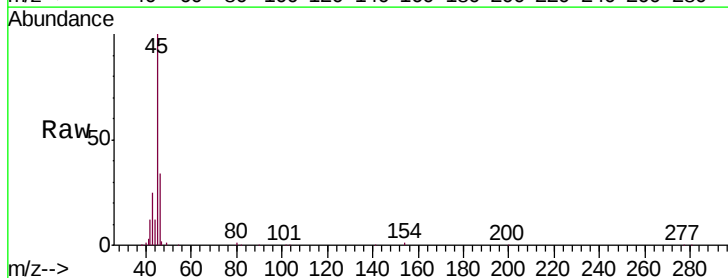
Acq: 6 Feb 2020 20:14

Tgt Ion: 45 Resp: 135999

Ion Ratio Lower Upper

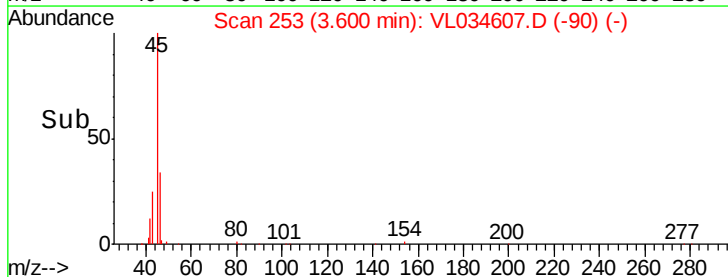
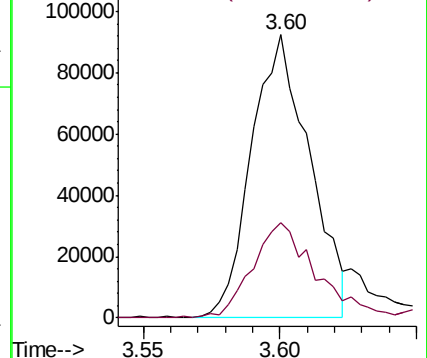
45 100

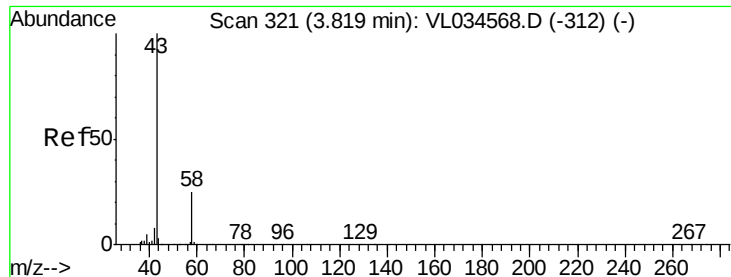
46 39.4 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.469 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

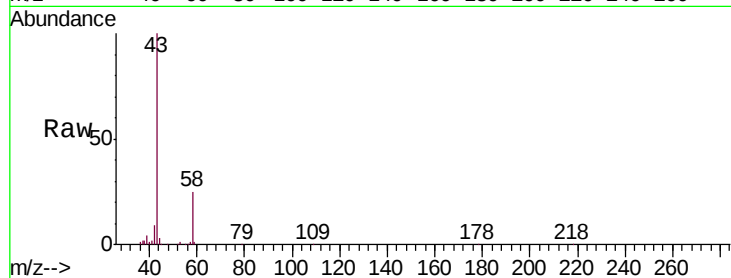
IA-3

Tgt Ion: 43 Resp: 434515

Ion Ratio Lower Upper

43 100

58 24.1 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

300000

200000

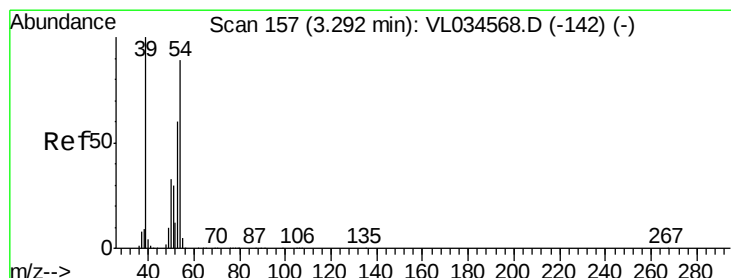
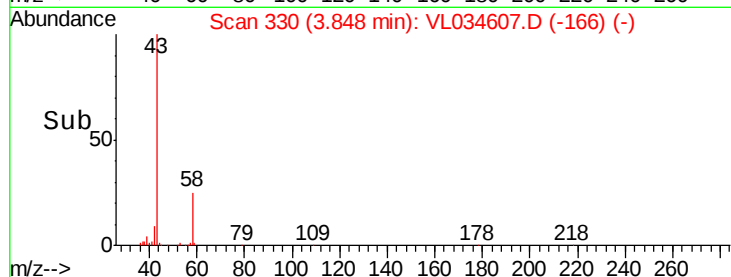
100000

0

3.85

3.80 3.90

Time-->



#16

1,3-Butadiene

Concen: 0.043 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.01 min

Lab File: VL034607.D

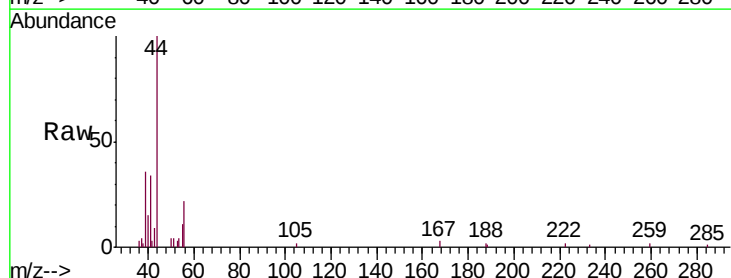
Acq: 6 Feb 2020 20:14

Tgt Ion: 39 Resp: 2157

Ion Ratio Lower Upper

39 100

54 63.4 66.7 100.1#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

5000

4000

3000

2000

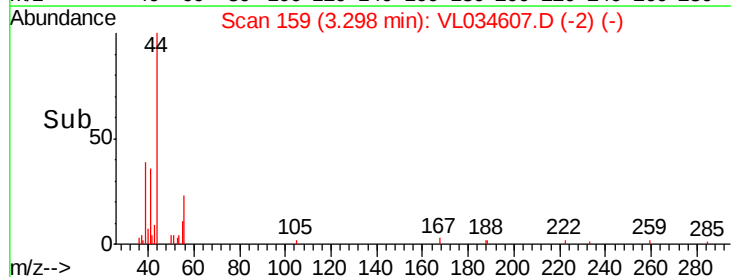
1000

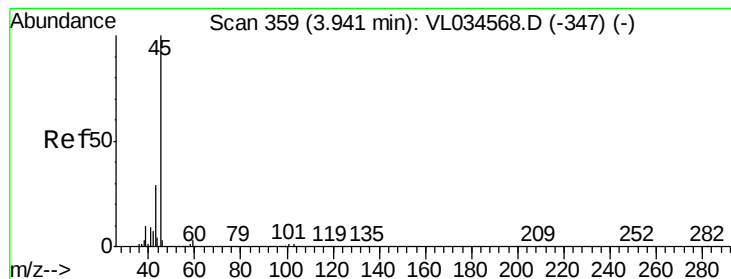
0

3.30

3.29 3.31

Time-->





#19

Isopropyl Alcohol

Concen: 2.683 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.04 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

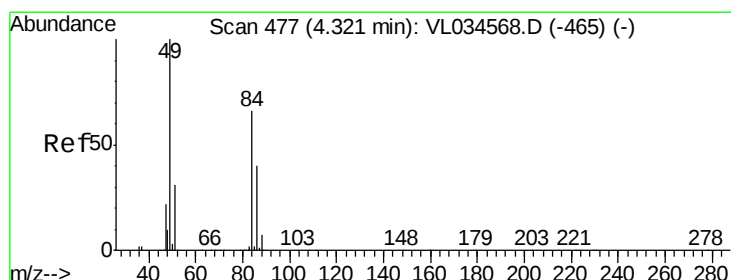
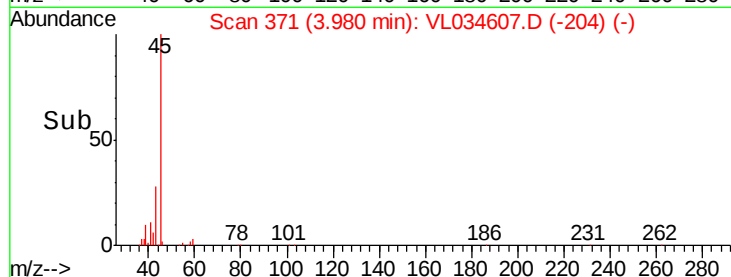
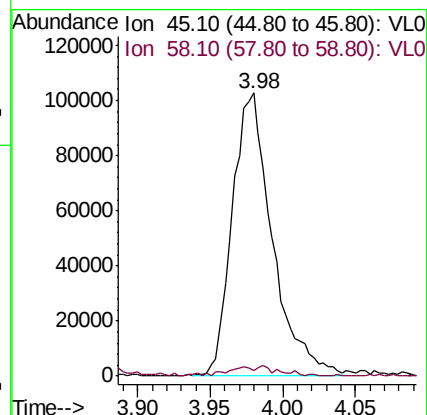
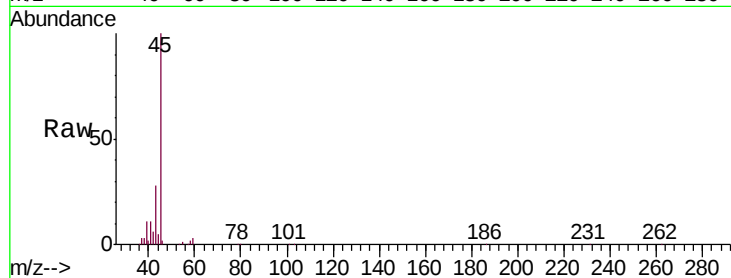
IA-3

Tgt Ion: 45 Resp: 196100

Ion Ratio Lower Upper

45 100

58 4.7 1.7 2.5#



#20

Methylene Chloride

Concen: 1.820 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Tgt Ion: 84 Resp: 86812

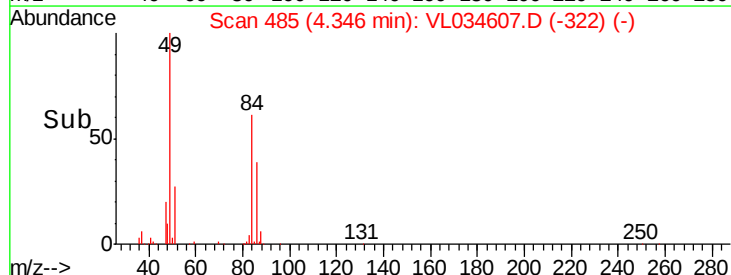
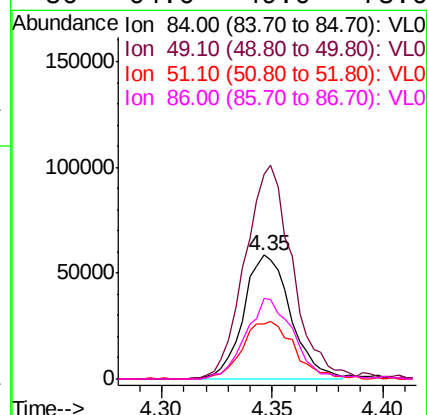
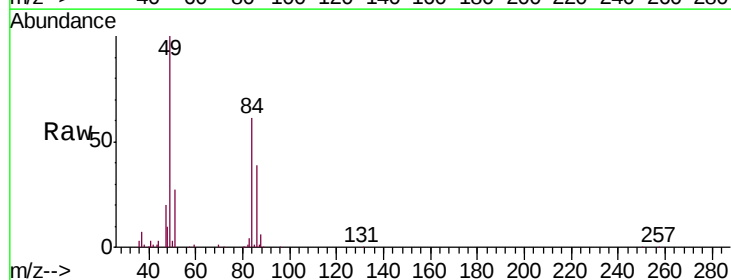
Ion Ratio Lower Upper

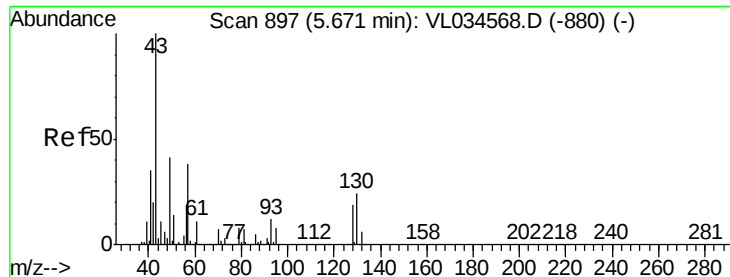
84 100

49 164.1 122.4 183.6

51 43.6 38.6 57.8

86 64.6 49.0 73.6

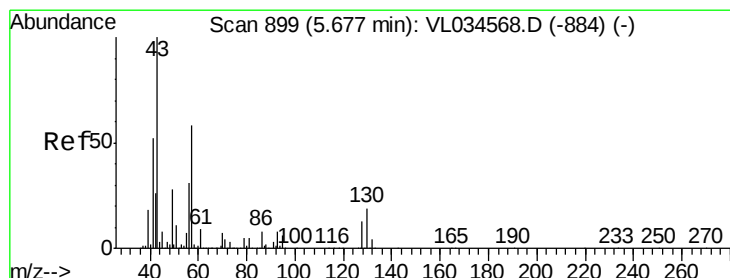
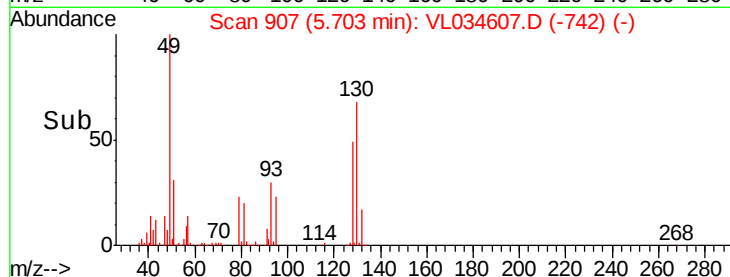
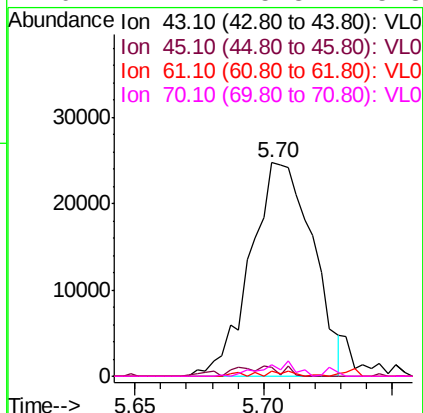
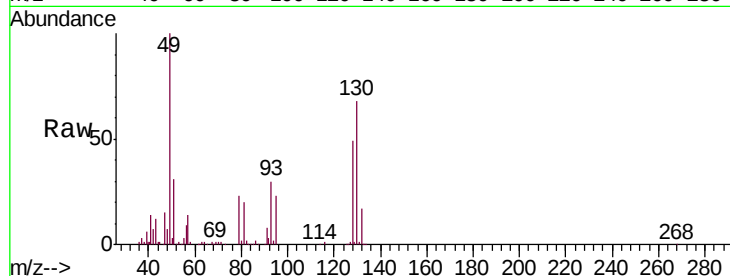




#25
Ethyl Acetate
Concen: 0.205 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.03 min
Lab File: VL034607.D
Acq: 6 Feb 2020 20:14

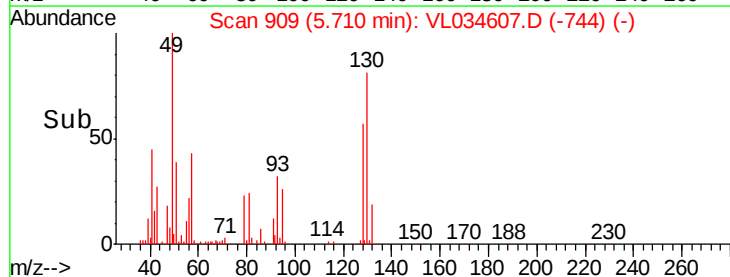
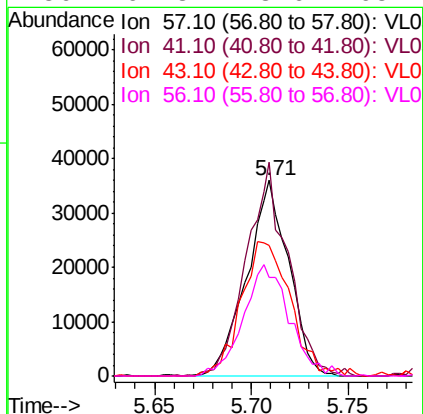
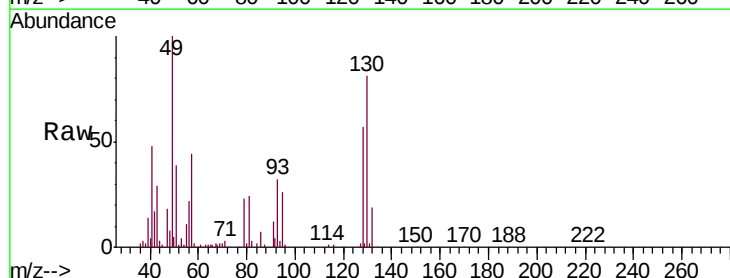
Instrument :
MSVOA_L
ClientSampleId :
IA-3

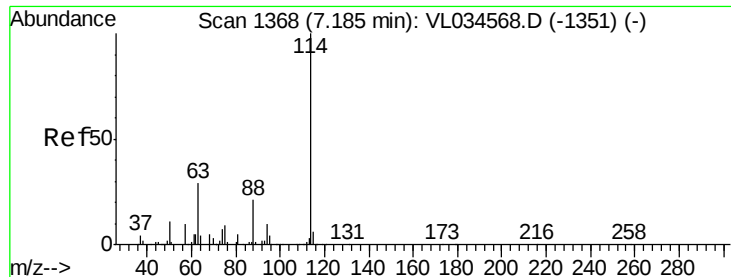
Tgt Ion:	43	Resp:	41607
Ion	Ratio	Lower	Upper
43	100		
45	4.0	8.5	12.7#
61	0.0	7.8	11.6#
70	4.4	5.8	8.8#



#26
Hexane
Concen: 0.638 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL034607.D
Acq: 6 Feb 2020 20:14

Tgt Ion:	57	Resp:	54211
Ion	Ratio	Lower	Upper
57	100		
41	108.3	76.2	114.2
43	80.7	189.9	284.9#
56	62.3	43.6	65.4

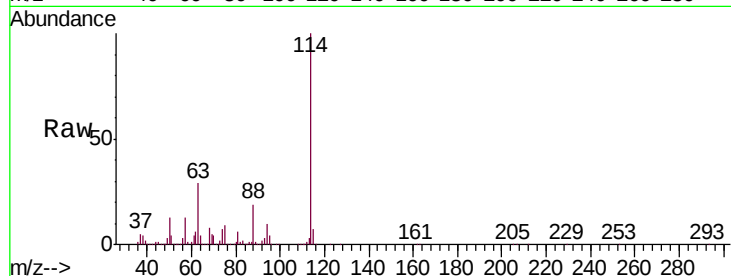




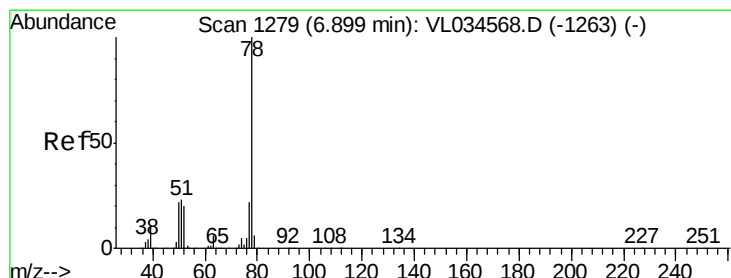
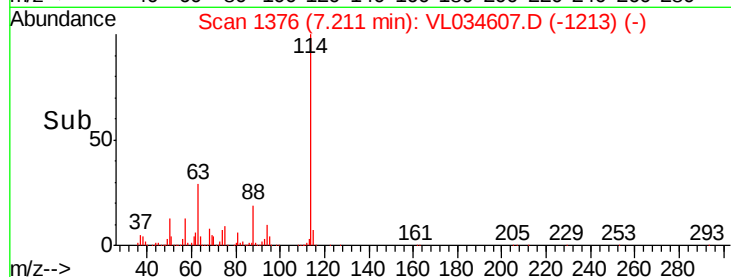
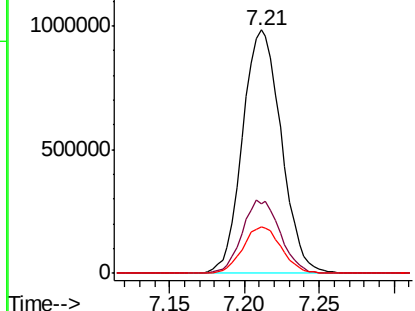
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. 0.03 min
 Lab File: VL034607.D
 Acq: 6 Feb 2020 20:14

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Tgt Ion:114 Resp: 1769806
 Ion Ratio Lower Upper
 114 100
 63 29.8 24.1 36.1
 88 18.9 15.9 23.9

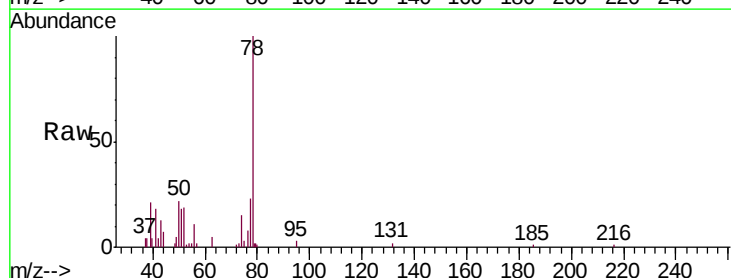


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

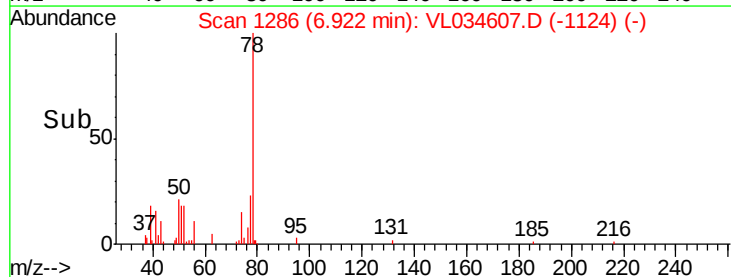
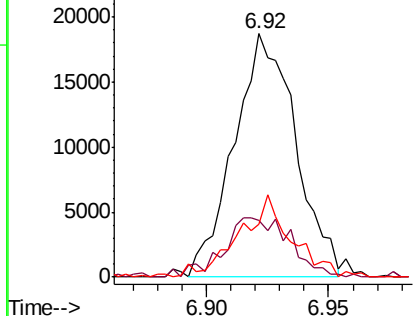


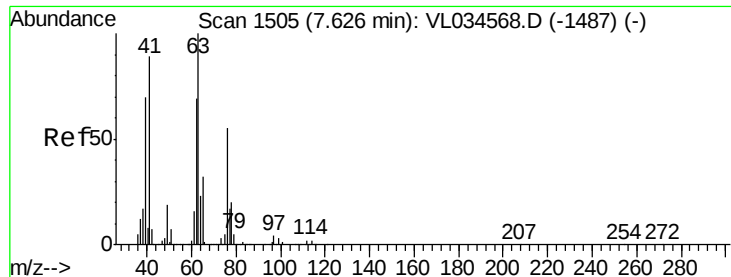
#36
 Benzene
 Concen: 0.208 ppbv
 RT: 6.92 min Scan# 1286
 Delta R.T. 0.02 min
 Lab File: VL034607.D
 Acq: 6 Feb 2020 20:14

Tgt Ion: 78 Resp: 32718
 Ion Ratio Lower Upper
 78 100
 77 18.0 17.3 25.9
 50 21.2 17.4 26.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0
 Ion 50.10 (49.80 to 50.80): VL0

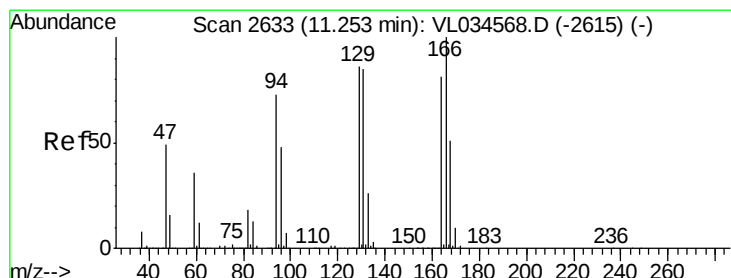
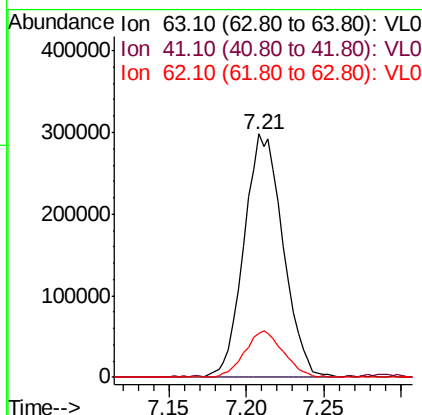
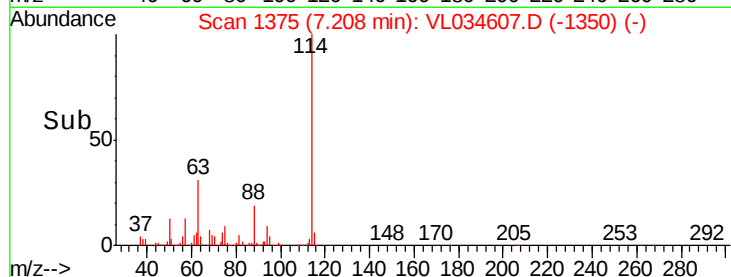
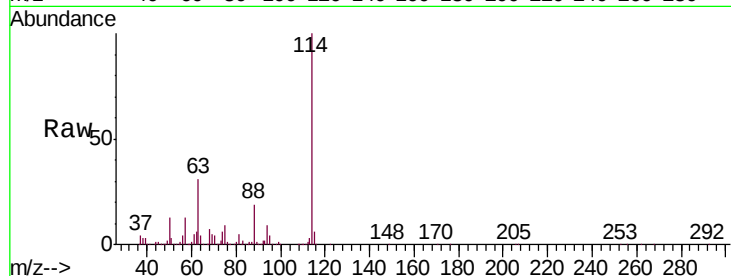




#39
 1,2-Dichloropropane
 Concen: 8.030 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. -0.42 min
 Lab File: VL034607.D
 Acq: 6 Feb 2020 20:14

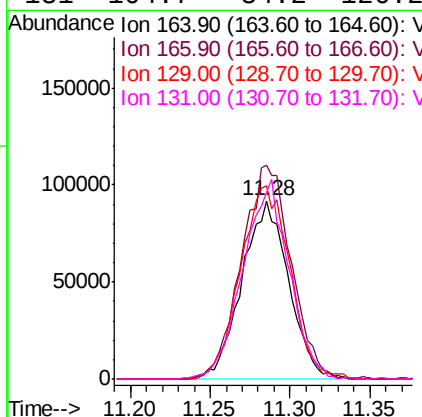
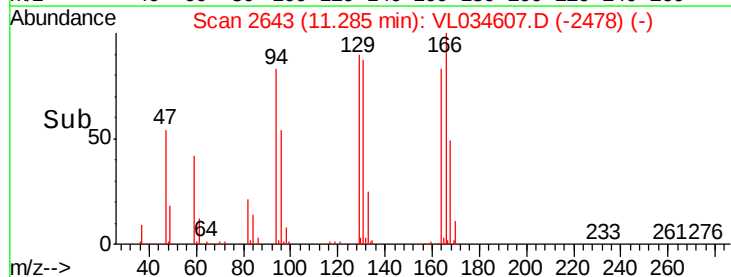
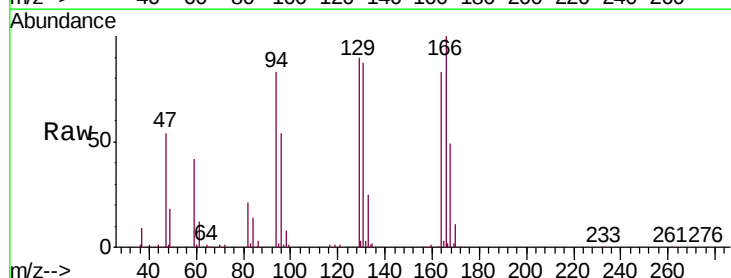
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

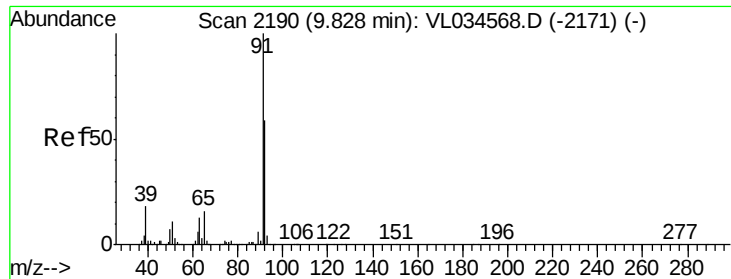
Tgt Ion: 63 Resp: 523933
 Ion Ratio Lower Upper
 63 100
 41 0.0 71.0 106.4#
 62 18.2 55.4 83.0#



#52
 Tetrachloroethene
 Concen: 2.896 ppbv
 RT: 11.28 min Scan# 2643
 Delta R.T. 0.03 min
 Lab File: VL034607.D
 Acq: 6 Feb 2020 20:14

Tgt Ion: 164 Resp: 183090
 Ion Ratio Lower Upper
 164 100
 166 120.0 99.0 148.4
 129 108.5 85.3 127.9
 131 104.7 84.2 126.2





#53

Toluene

Concen: 0.265 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. 0.04 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

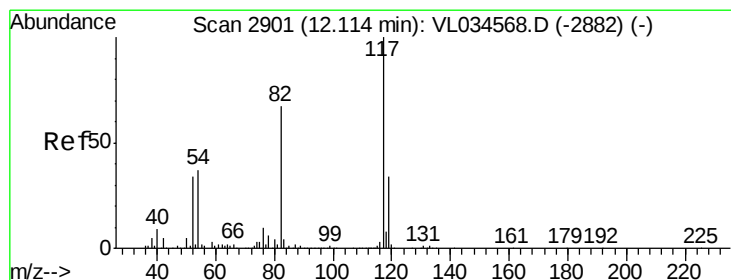
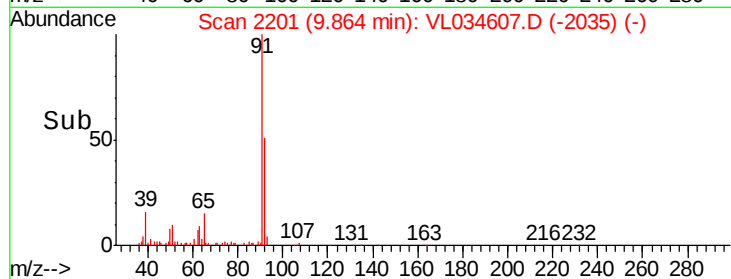
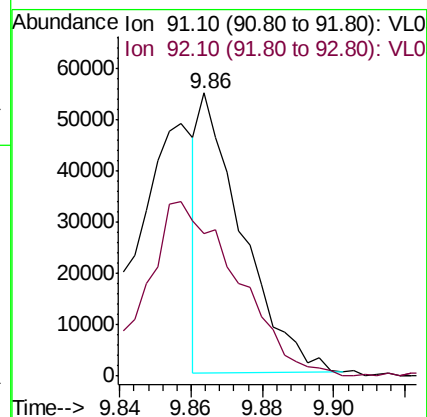
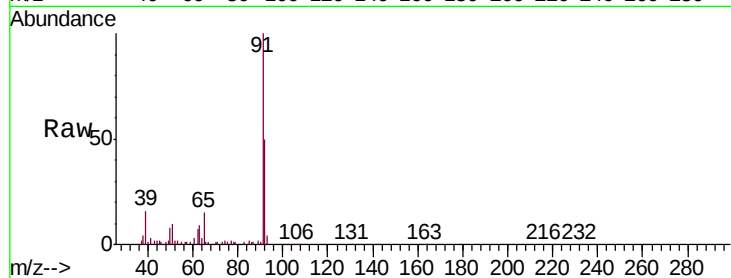
IA-3

Tgt Ion: 91 Resp: 45751

Ion Ratio Lower Upper

91 100

92 0.0 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. 0.04 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

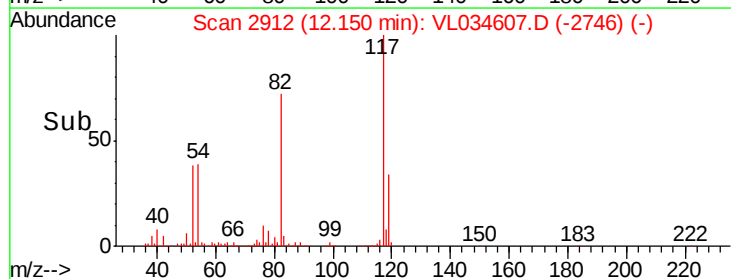
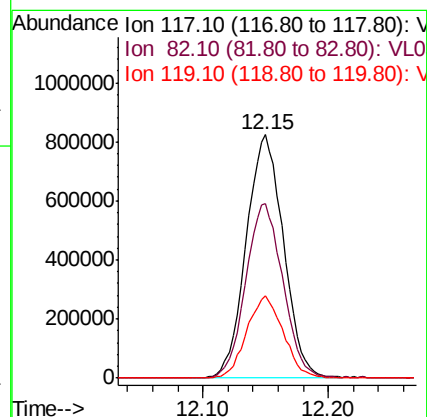
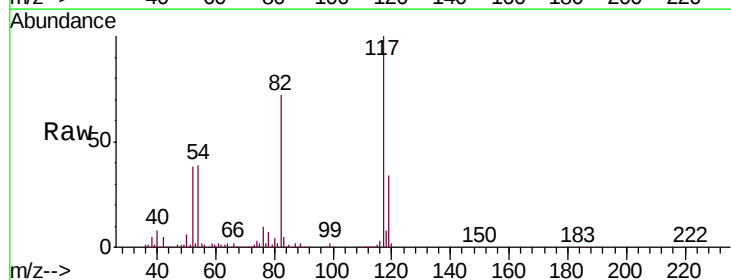
Tgt Ion: 117 Resp: 1701815

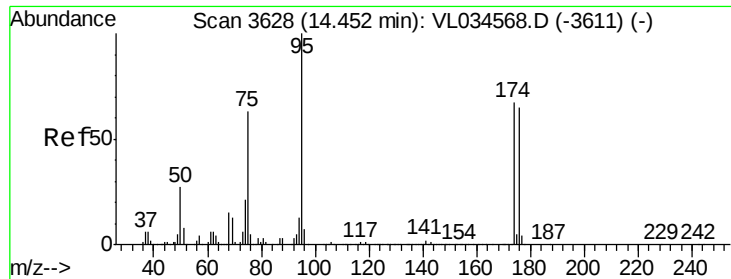
Ion Ratio Lower Upper

117 100

82 71.9 54.2 81.4

119 33.1 26.1 39.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.398 ppbv

RT: 14.48 min Scan# 3638

Delta R.T. 0.03 min

Lab File: VL034607.D

Acq: 6 Feb 2020 20:14

Instrument :

MSVOA_L

ClientSampleId :

IA-3

Tgt Ion: 95 Resp: 1495572

Ion Ratio Lower Upper

95 100

174 62.9 52.3 78.5

175 4.5 3.8 5.6

