

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020620\
 Data File : VL034605.D
 Acq On : 6 Feb 2020 18:52
 Operator : SY/AP
 Sample : L1435-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Quant Time: Feb 07 08:11:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu 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	863965	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	1839733	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.14	117	1790647	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1557807	10.29	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

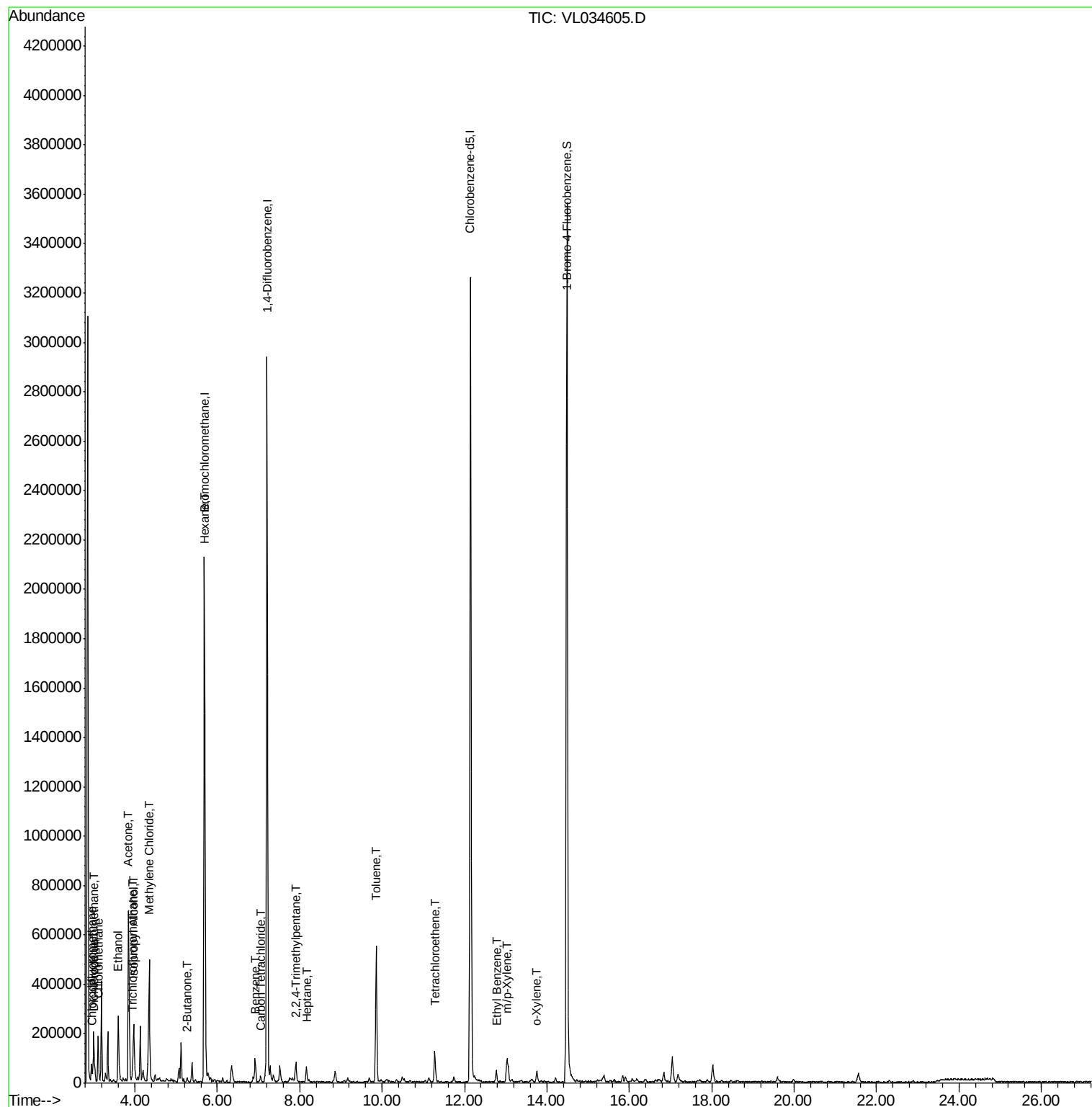
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	37802m	0.199	ppbv	
3) Chlorodifluoromethane	2.97	51	29020m	0.278	ppbv	
4) Chloromethane	3.12	50	28449m	0.445	ppbv	
9) Propene	3.00	41	40929m	1.007	ppbv	
10) Heptane	8.17	43	17990m	0.176	ppbv	
11) Trichlorofluoromethane	3.94	101	46497	0.269	ppbv #	72
13) Ethanol	3.59	45	264137	24.260	ppbv	98
15) Acetone	3.84	43	711868	5.606	ppbv	97
19) Isopropyl Alcohol	3.97	45	236431	3.191	ppbv #	96
20) Methylene Chloride	4.34	84	159514	3.299	ppbv	95
26) Hexane	5.70	57	119683	1.390	ppbv #	40
34) 2-Butanone	5.27	43	18123	0.136	ppbv	96
35) Carbon Tetrachloride	7.05	117	11675m	0.066	ppbv	
36) Benzene	6.92	78	64242	0.393	ppbv	94
44) 2,2,4-Trimethylpentane	7.90	57	40794m	0.137	ppbv	
52) Tetrachloroethene	11.28	164	25201m	0.383	ppbv	
53) Toluene	9.86	91	383506	2.134	ppbv	97
58) Ethyl Benzene	12.78	91	32816m	0.137	ppbv	
59) m/p-Xylene	13.03	91	103042m	0.486	ppbv	
60) o-Xylene	13.75	91	28868m	0.136	ppbv	

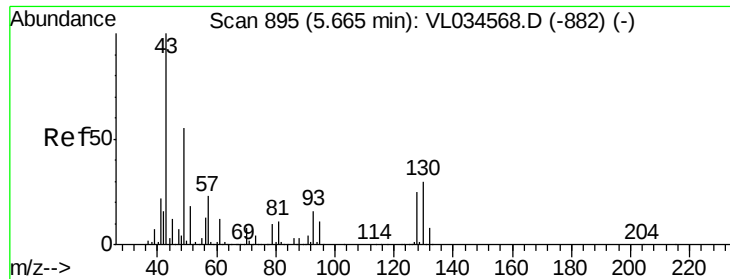
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020620\
Data File : VL034605.D
Acq On : 6 Feb 2020 18:52
Operator : SY/AP
Sample : L1435-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Quant Time: Feb 07 08:11:38 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

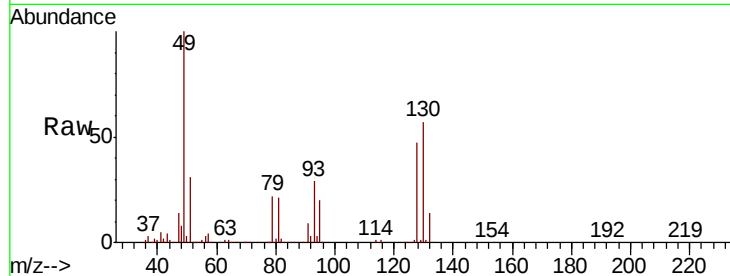
Tot Ion: 49 Resp: 863965

Ion Ratio Lower Upper

49 100

128 46.2 22.7 68.1

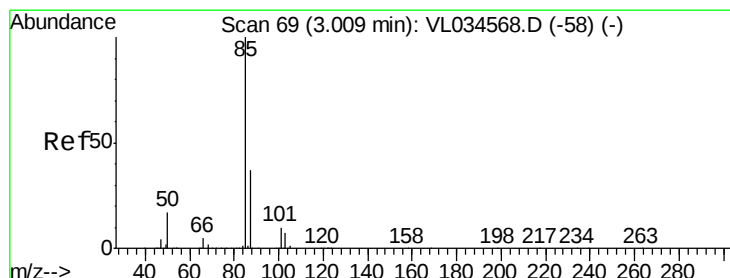
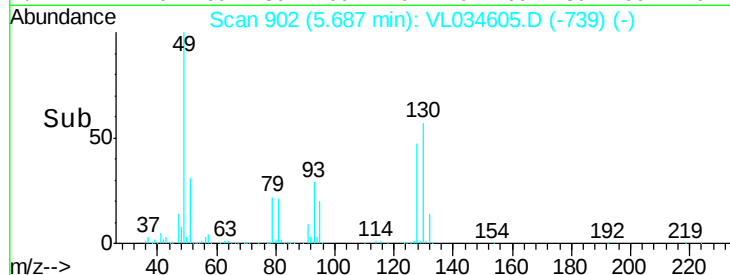
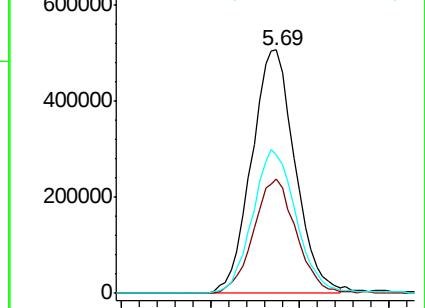
130 59.7 28.6 85.8



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: 0.199 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL034605.D

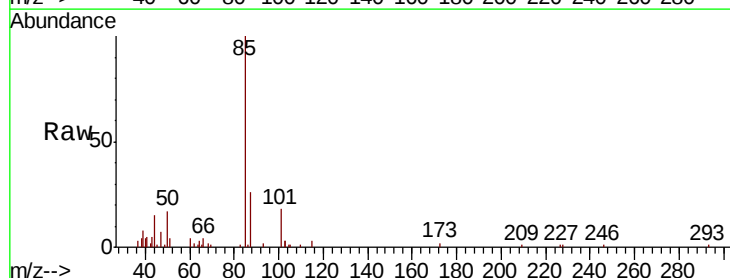
Acq: 6 Feb 2020 18:52

Tgt Ion: 85 Resp: 37802

Ion Ratio Lower Upper

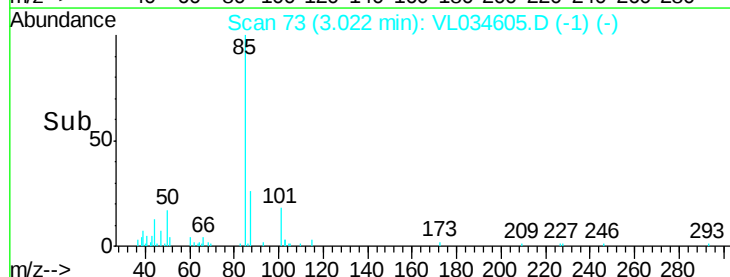
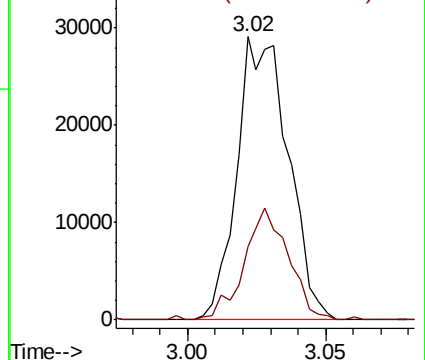
85 100

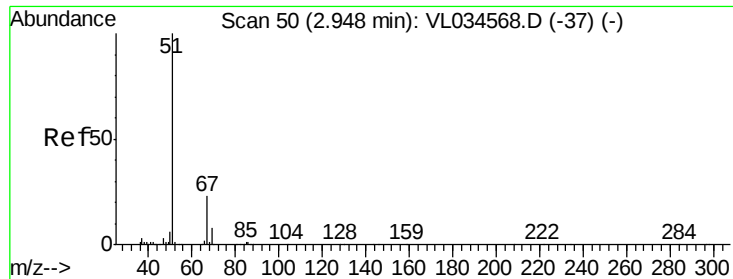
87 26.0 29.5 44.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.278 ppbv m

RT: 2.97 min Scan# 56

Delta R.T. 0.02 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampleId :

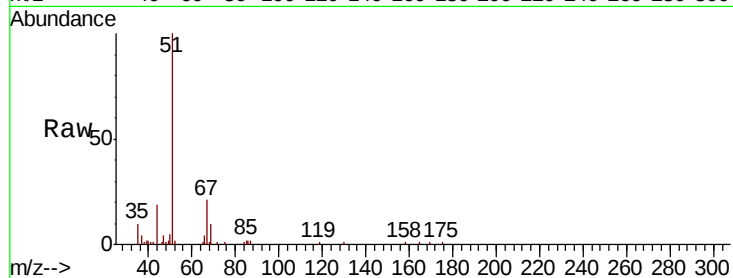
IA-1DUP

Tot Ion: 51 Resp: 29020

Ion Ratio Lower Upper

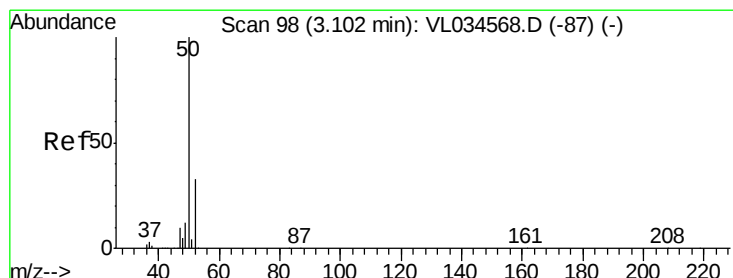
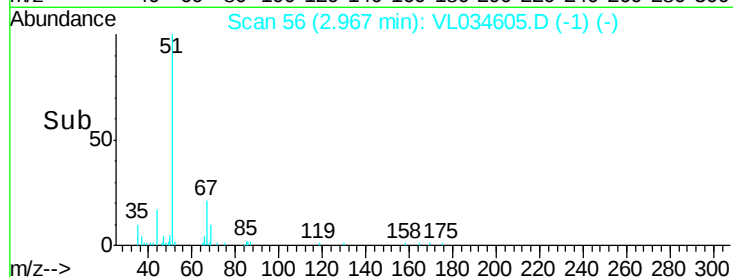
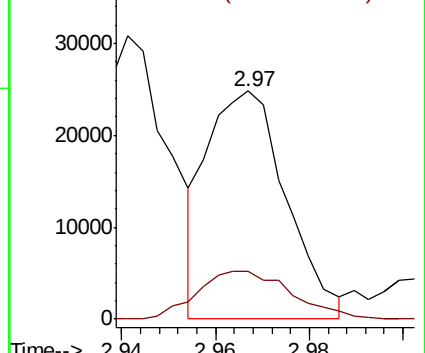
51 100

67 25.3 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: 0.445 ppbv m

RT: 3.12 min Scan# 103

Delta R.T. 0.02 min

Lab File: VL034605.D

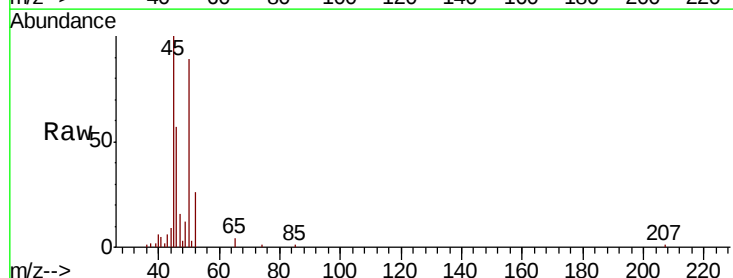
Acq: 6 Feb 2020 18:52

Tgt Ion: 50 Resp: 28449

Ion Ratio Lower Upper

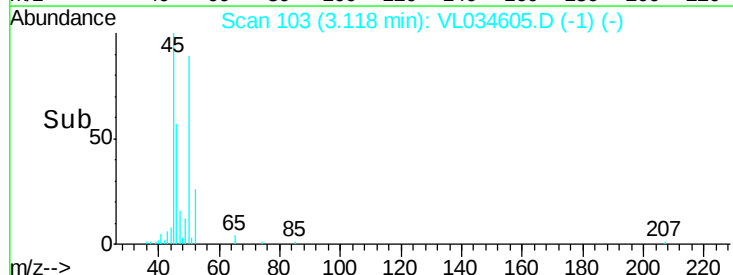
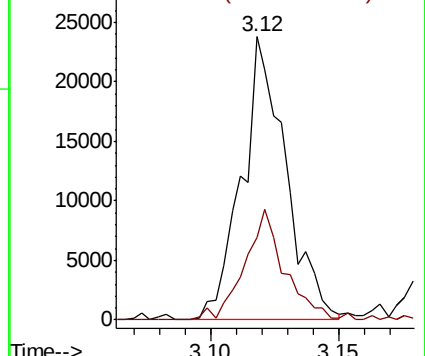
50 100

52 29.0 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.007 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. 0.03 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampleId :

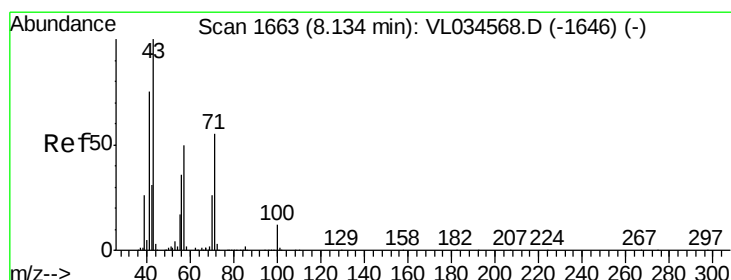
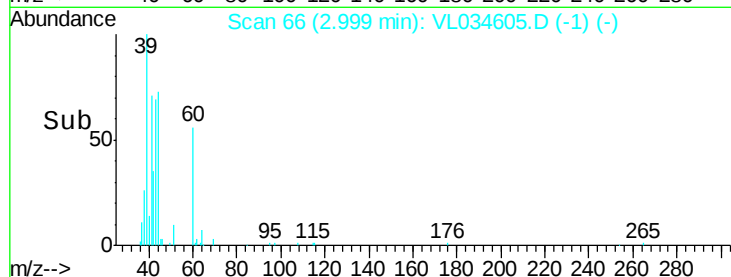
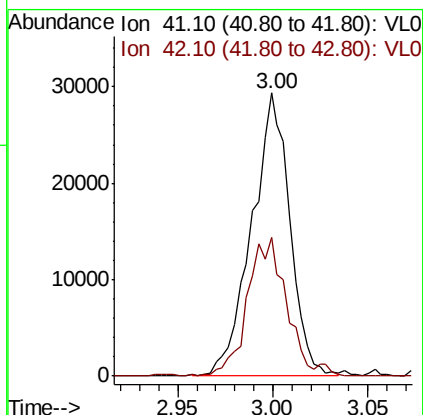
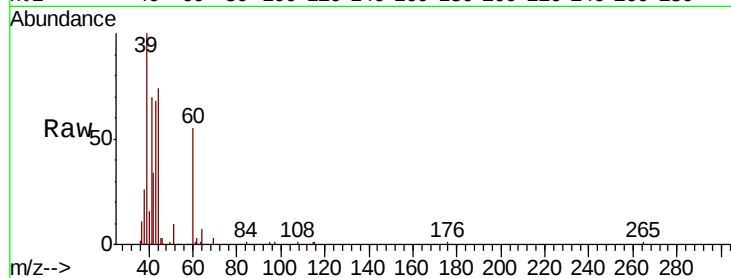
IA-1DUP

Tot Ion: 41 Resp: 40929

Ion Ratio Lower Upper

41 100

42 154.1 57.0 85.4#



#10

Heptane

Concen: 0.176 ppbv m

RT: 8.17 min Scan# 1673

Delta R.T. 0.03 min

Lab File: VL034605.D

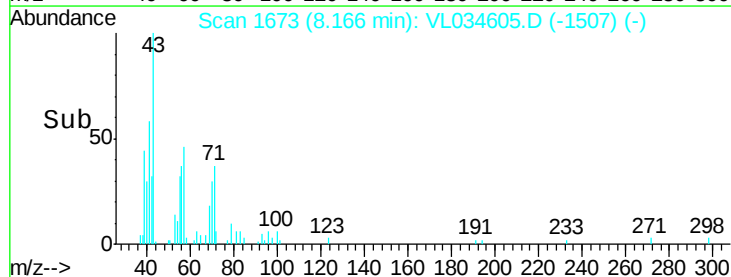
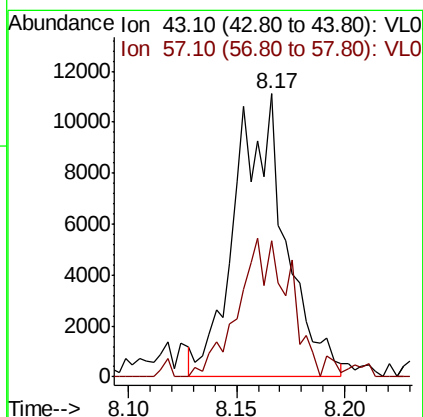
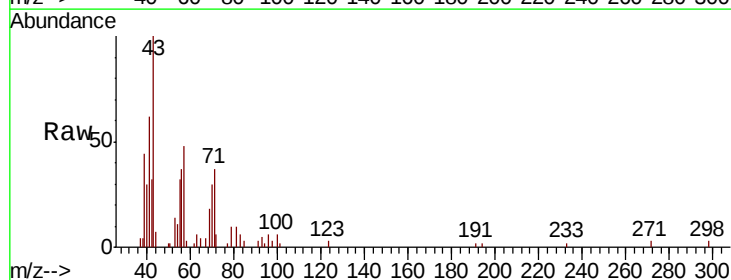
Acq: 6 Feb 2020 18:52

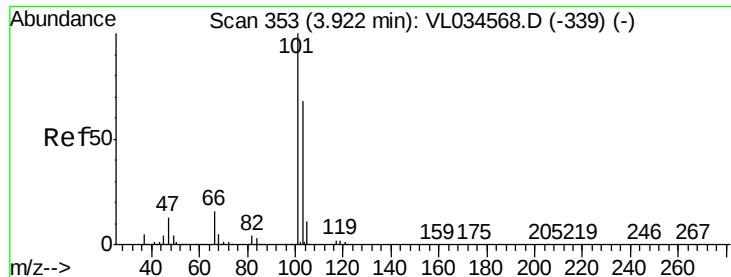
Tgt Ion: 43 Resp: 17990

Ion Ratio Lower Upper

43 100

57 53.8 41.2 61.8





#11

Trichlorofluoromethane

Concen: 0.269 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.02 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampleId :

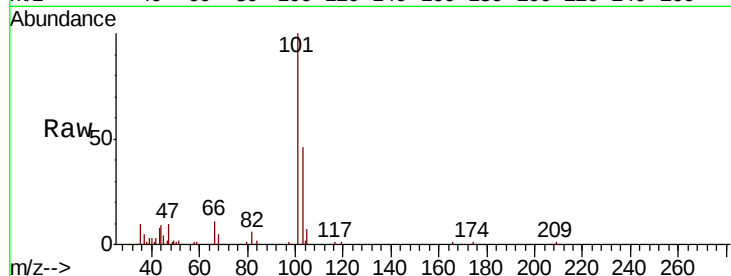
IA-1DUP

Tot Ion:101 Resp: 46497

Ion Ratio Lower Upper

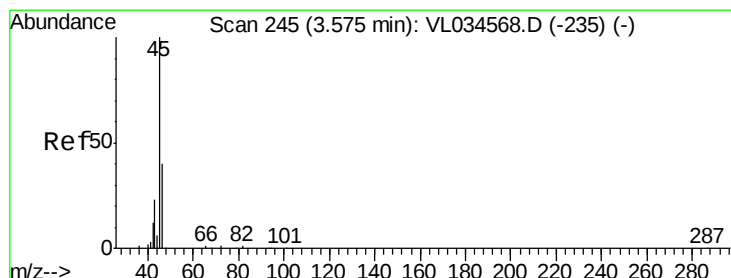
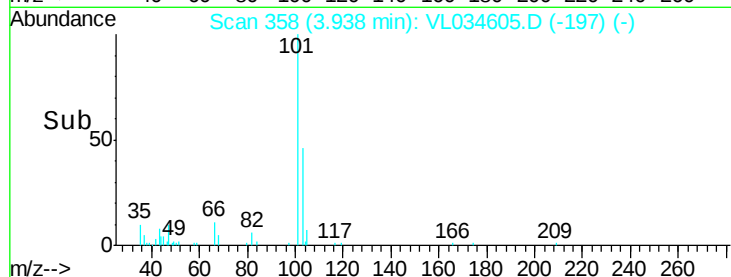
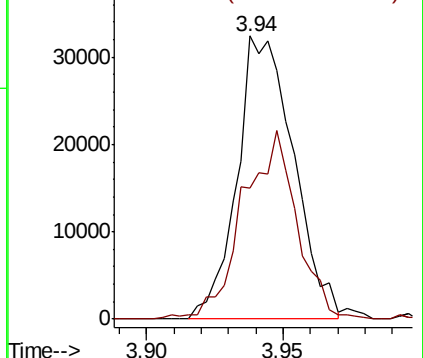
101 100

103 45.3 54.4 81.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 24.260 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.02 min

Lab File: VL034605.D

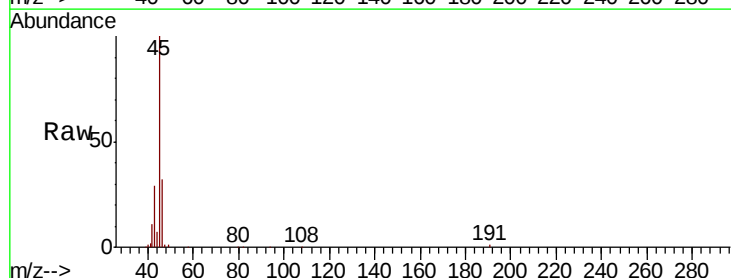
Acq: 6 Feb 2020 18:52

Tgt Ion: 45 Resp: 264137

Ion Ratio Lower Upper

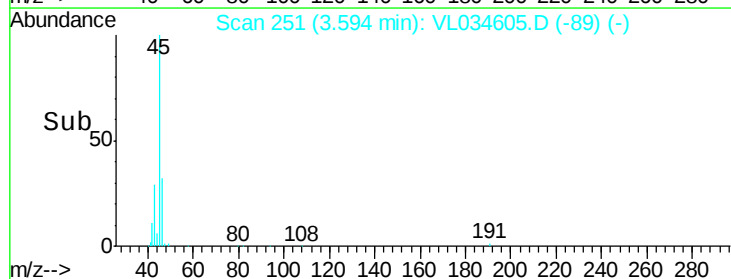
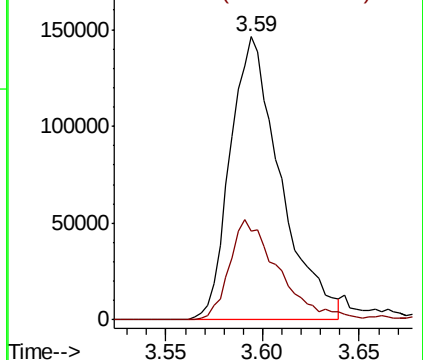
45 100

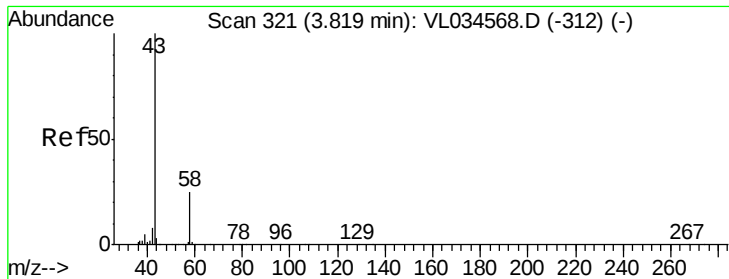
46 35.9 14.8 59.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.606 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.03 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampleId :

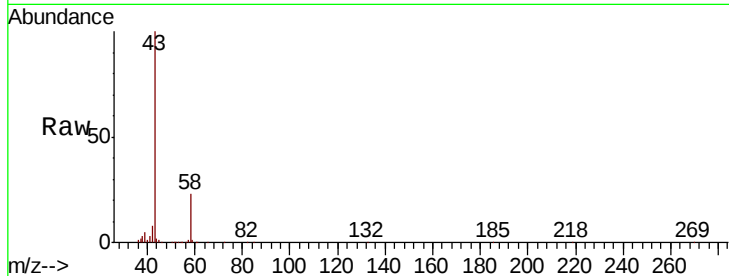
IA-1DUP

Tot Ion: 43 Resp: 711868

Ion Ratio Lower Upper

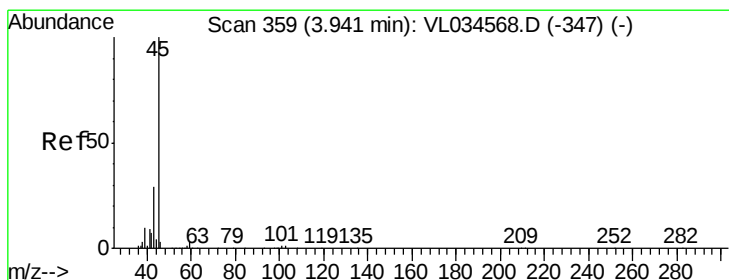
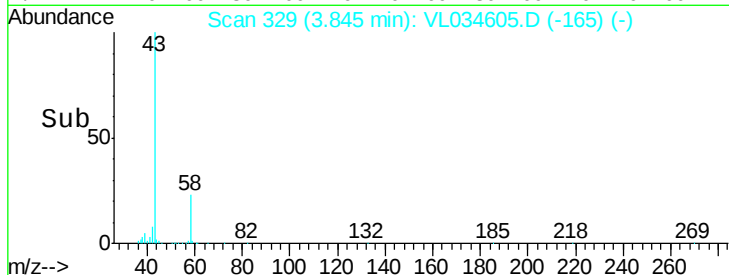
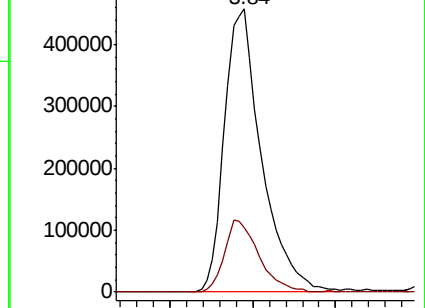
43 100

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



#19

Isopropyl Alcohol

Concen: 3.191 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.03 min

Lab File: VL034605.D

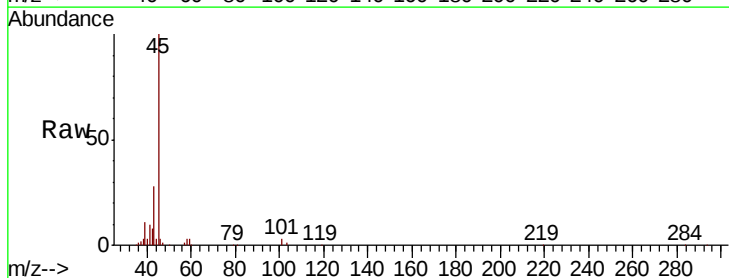
Acq: 6 Feb 2020 18:52

Tgt Ion: 45 Resp: 236431

Ion Ratio Lower Upper

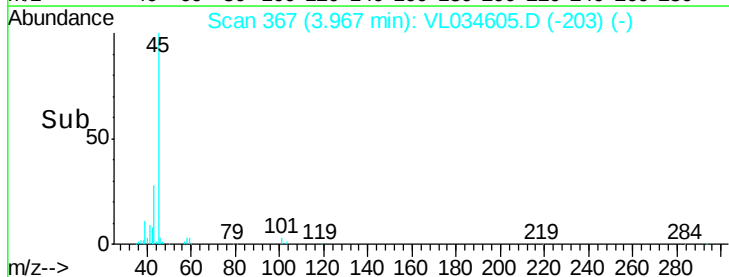
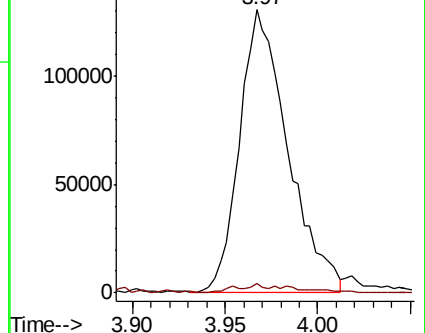
45 100

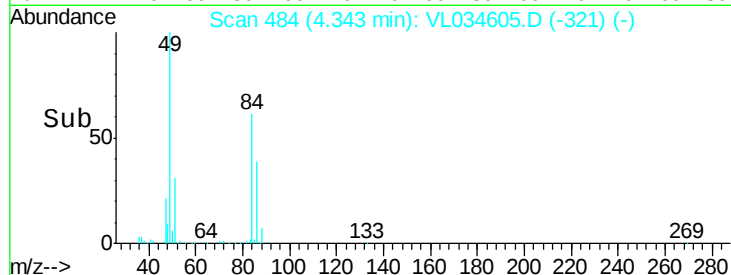
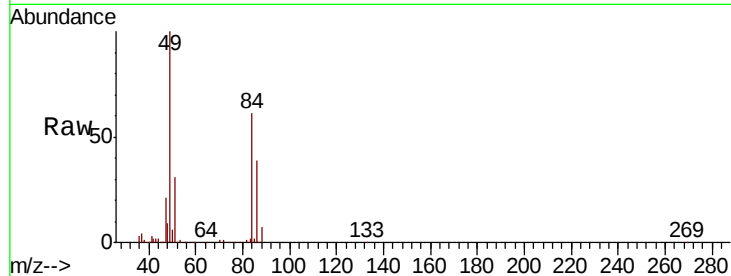
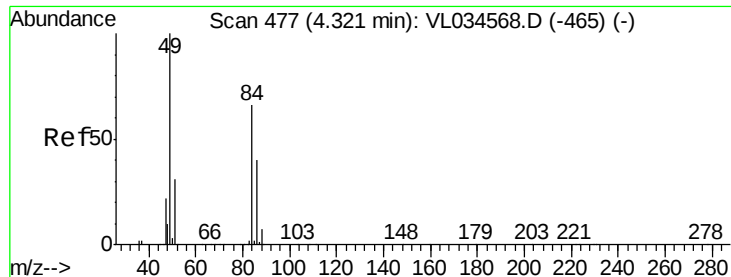
58 3.4 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

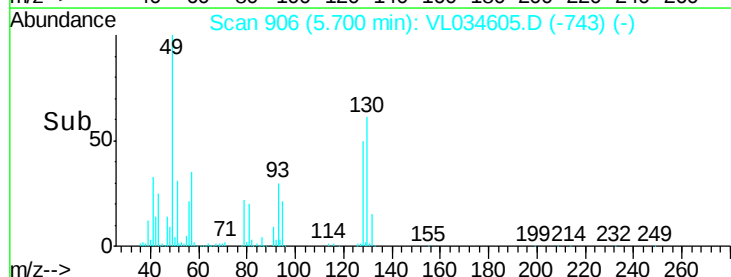
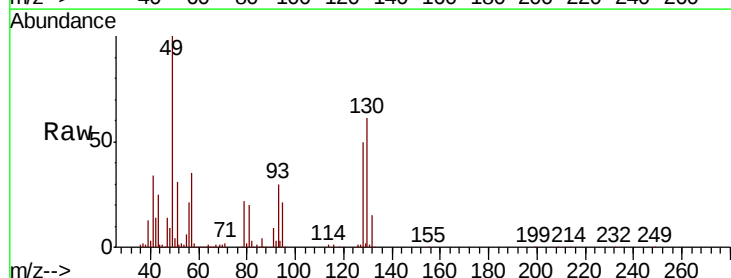
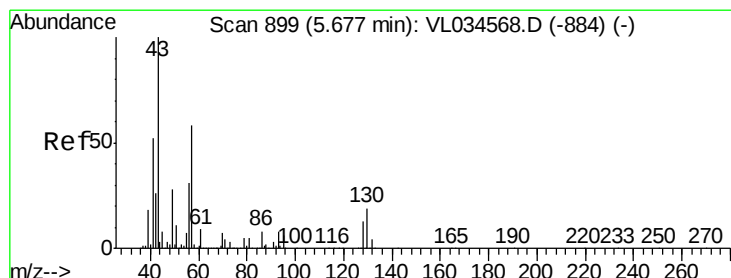
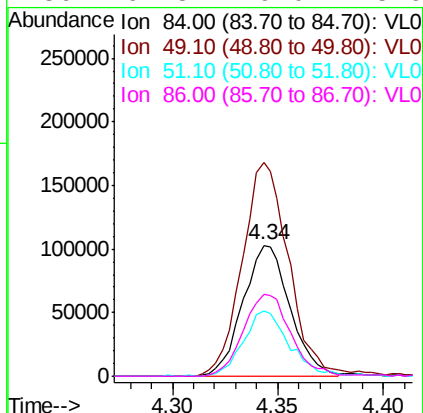




#20
Methvlene Chloride
Concen: 3.299 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.02 min
Lab File: VL034605.D
Acq: 6 Feb 2020 18:52

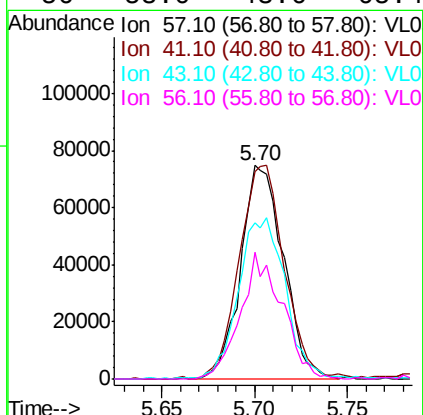
Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

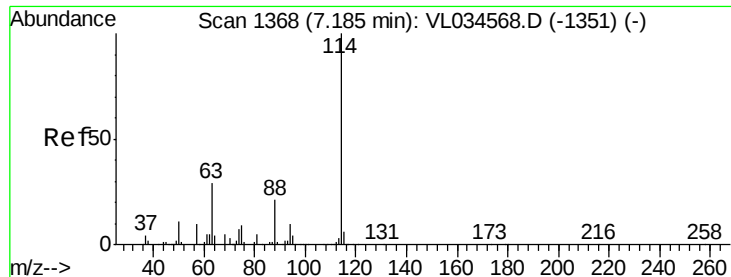
Tot Ion:	84	Resp:	159514
Ion	Ratio	Lower	Upper
84	100		
49	162.8	122.4	183.6
51	48.9	38.6	57.8
86	62.8	49.0	73.6



#26
Hexane
Concen: 1.390 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL034605.D
Acq: 6 Feb 2020 18:52

Tgt Ion:	57	Resp:	119683
Ion	Ratio	Lower	Upper
57	100		
41	108.9	76.2	114.2
43	83.6	189.9	284.9#
56	58.0	43.6	65.4

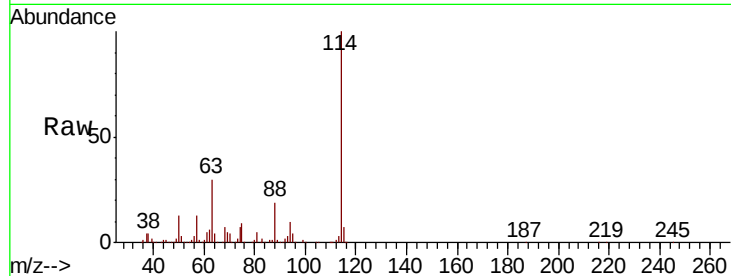




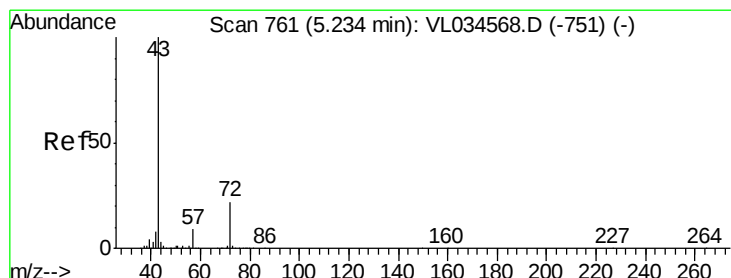
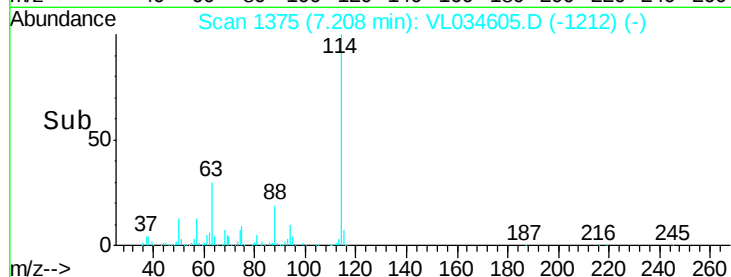
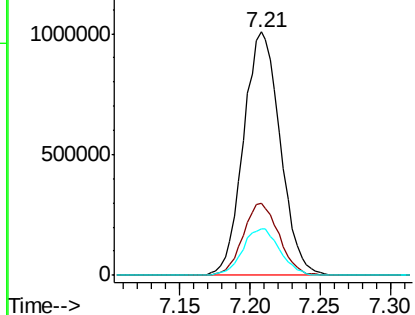
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1375
 Delta R.T. 0.02 min
 Lab File: VL034605.D
 Acq: 6 Feb 2020 18:52

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Tot Ion:114 Resp: 1839733
 Ion Ratio Lower Upper
 114 100
 63 29.1 24.1 36.1
 88 19.3 15.9 23.9

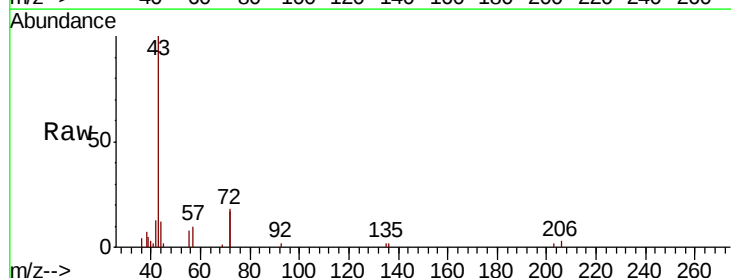


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

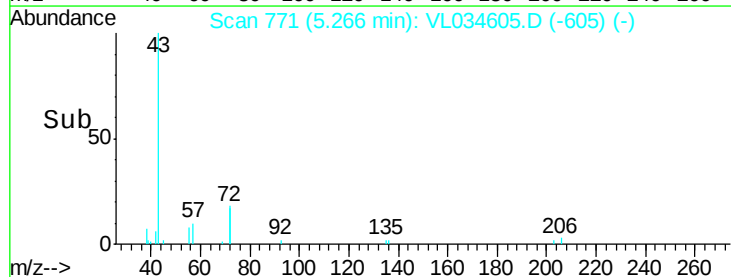
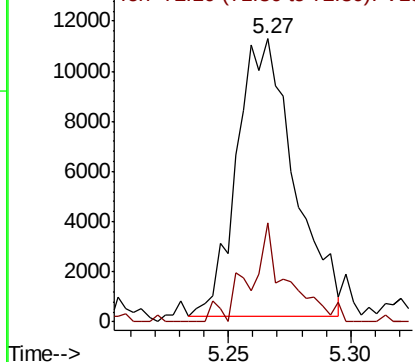


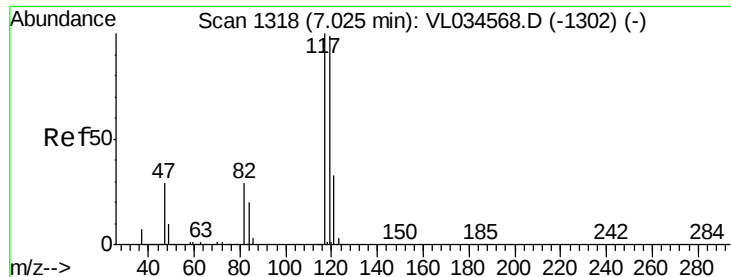
#34
 2-Butanone
 Concen: 0.136 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.03 min
 Lab File: VL034605.D
 Acq: 6 Feb 2020 18:52

Tgt Ion: 43 Resp: 18123
 Ion Ratio Lower Upper
 43 100
 72 23.2 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.066 ppbv

RT: 7.05 min Scan# 1326

Delta R.T. 0.03 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampleId :

IA-1DUP

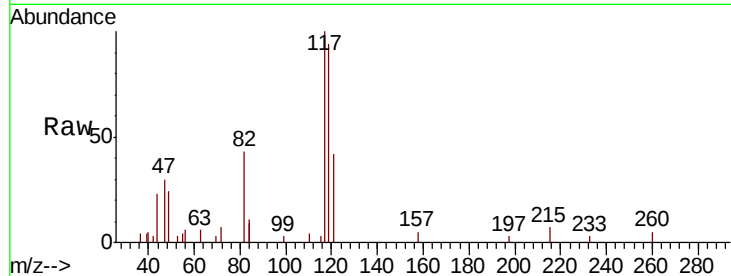
Tot Ion:117 Resp: 11675

Ion Ratio Lower Upper

117 100

119 93.6 79.5 119.3

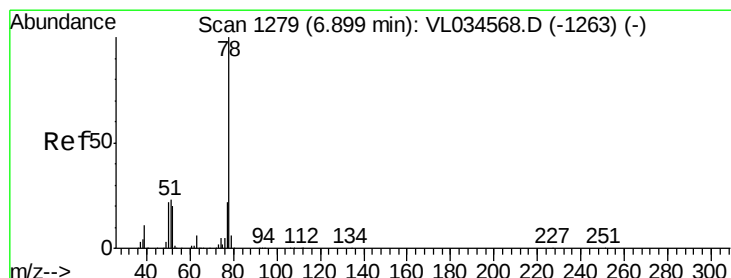
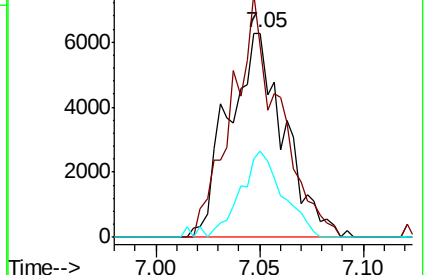
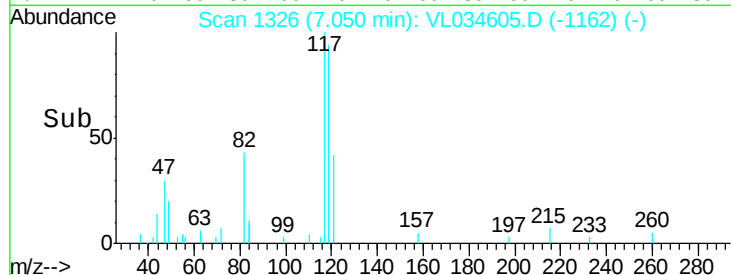
121 41.9 26.2 39.2#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.393 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.02 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

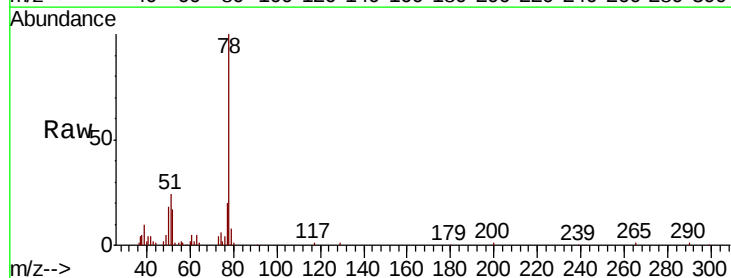
Tgt Ion: 78 Resp: 64242

Ion Ratio Lower Upper

78 100

77 19.3 17.3 25.9

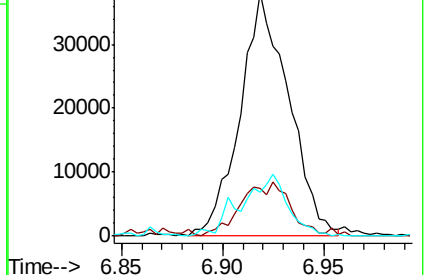
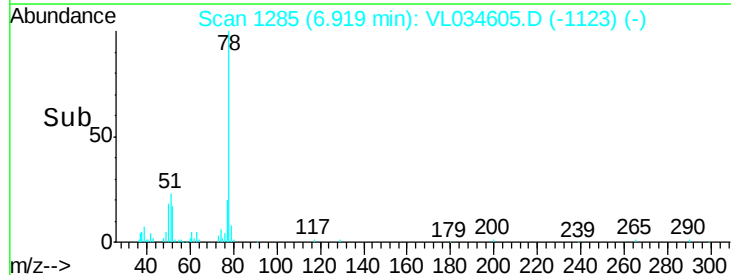
50 18.1 17.4 26.2

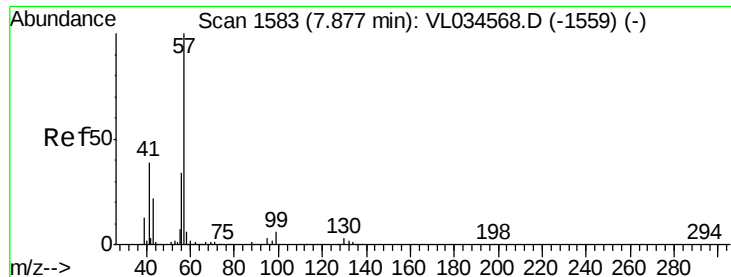


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

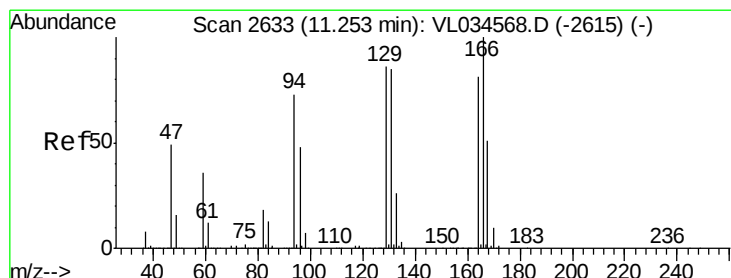
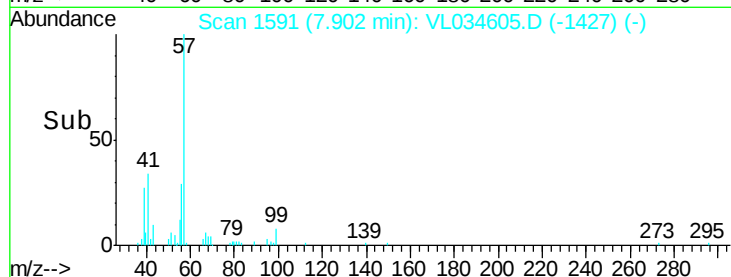
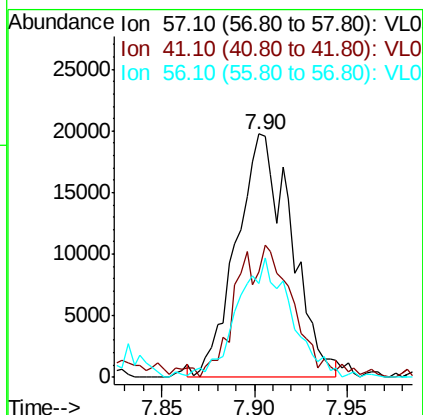
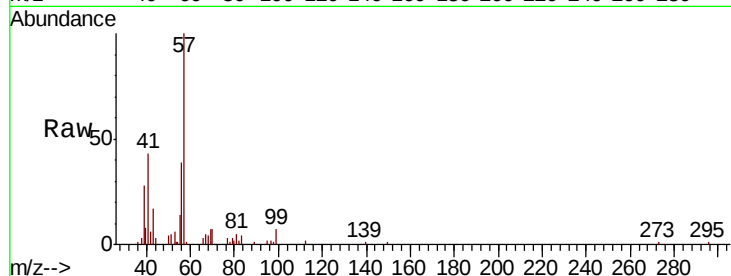




#44
 2,2,4-Trimethylpentane
 Concen: 0.137 ppbv m
 RT: 7.90 min Scan# 1591
 Delta R.T. 0.03 min
 Lab File: VL034605.D
 Acq: 6 Feb 2020 18:52

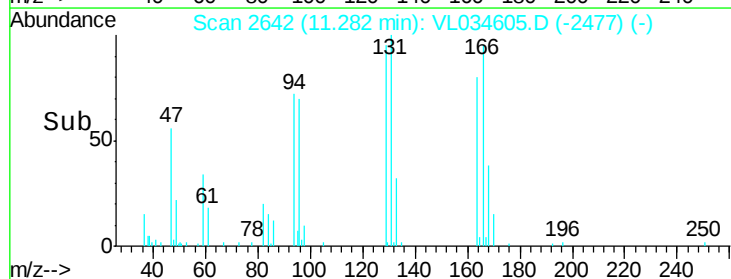
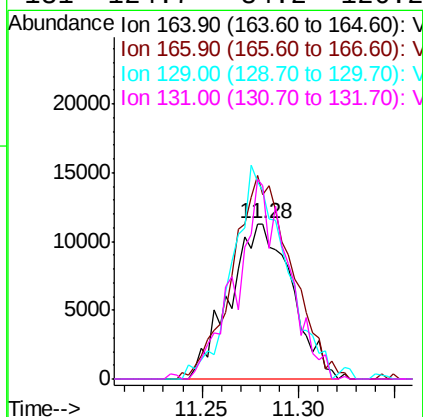
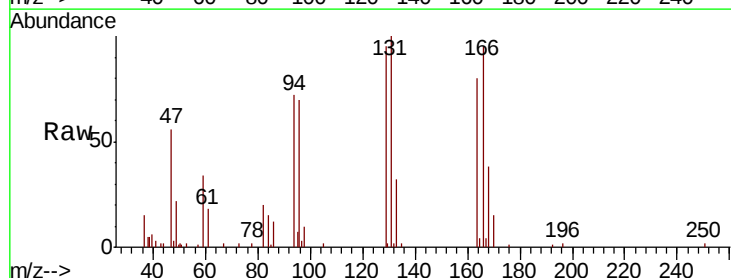
Instrument :
 MSVOA_L
 ClientSampleID :
 IA-1DUP

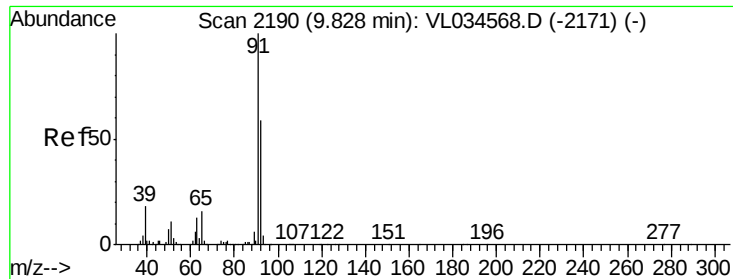
Tot Ion: 57 Resp: 40794
 Ion Ratio Lower Upper
 57 100
 41 58.5 28.9 43.3#
 56 48.6 25.5 38.3#



#52
 Tetrachloroethene
 Concen: 0.383 ppbv m
 RT: 11.28 min Scan# 2642
 Delta R.T. 0.03 min
 Lab File: VL034605.D
 Acq: 6 Feb 2020 18:52

Tgt Ion:164 Resp: 25201
 Ion Ratio Lower Upper
 164 100
 166 119.0 99.0 148.4
 129 119.0 85.3 127.9
 131 124.7 84.2 126.2





#53

Toluene

Concen: 2.134 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. 0.03 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampleId :

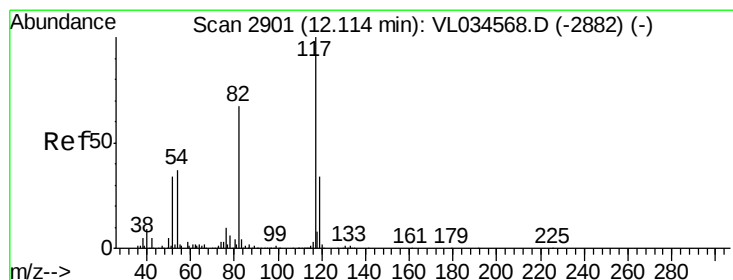
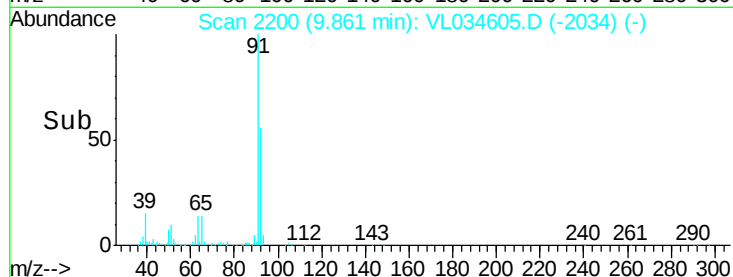
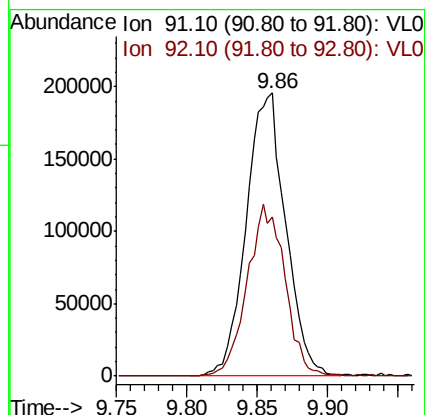
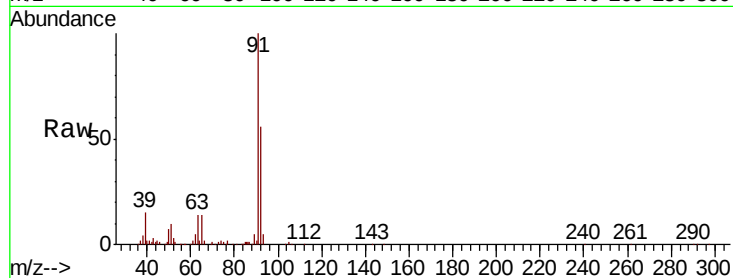
IA-1DUP

Tot Ion: 91 Resp: 383506

Ion Ratio Lower Upper

91 100

92 58.1 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2910

Delta R.T. 0.03 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

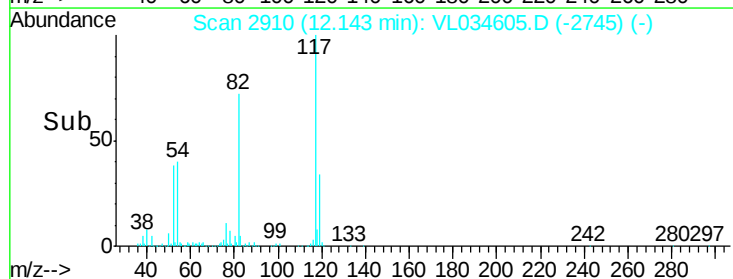
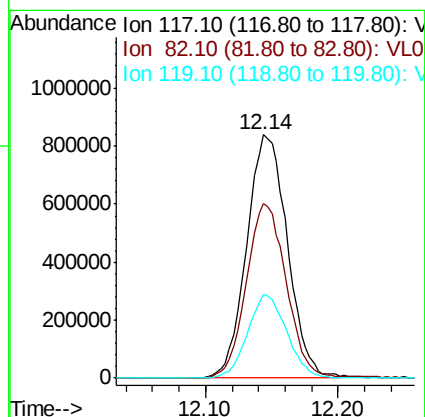
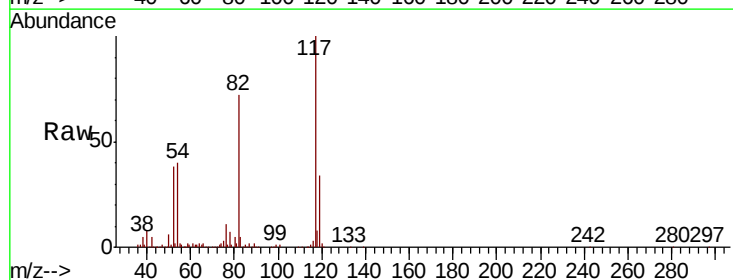
Tgt Ion: 117 Resp: 1790647

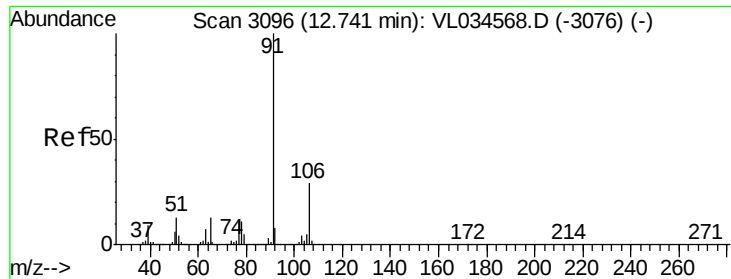
Ion Ratio Lower Upper

117 100

82 70.7 54.2 81.4

119 33.2 26.1 39.1





#58

Ethyl Benzene

Concen: 0.137 ppbv m

RT: 12.78 min Scan# 3107

Delta R.T. 0.04 min

Lab File: VL034605.D

Acq: 6 Feb 2020 18:52

Instrument :

MSVOA_L

ClientSampled :

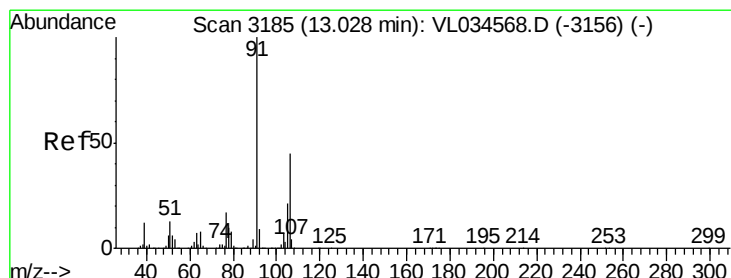
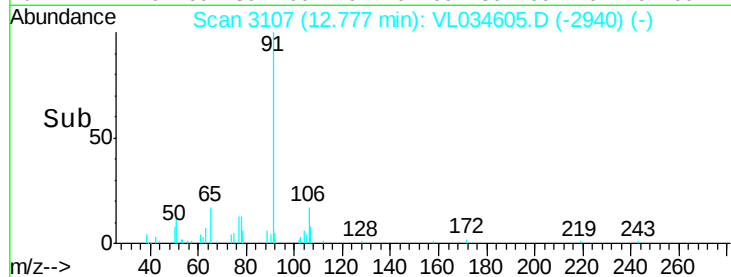
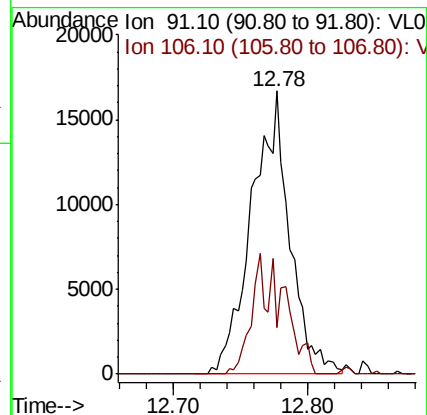
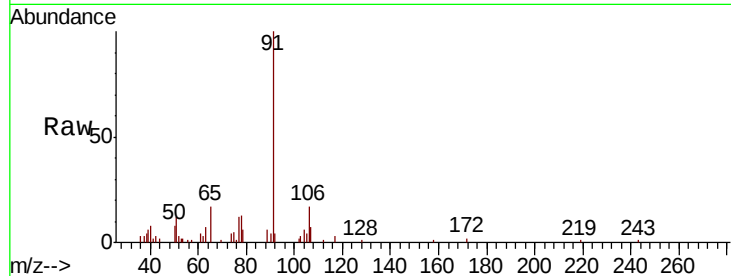
IA-1DUP

Tot Ion: 91 Resp: 32816

Ion Ratio Lower Upper

91 100

106 16.6 23.3 34.9#



#59

m/p-Xylene

Concen: 0.486 ppbv m

RT: 13.03 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VL034605.D

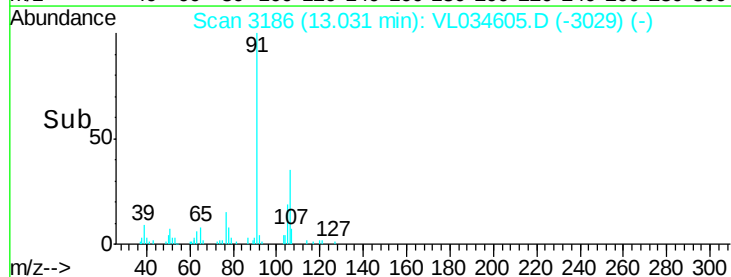
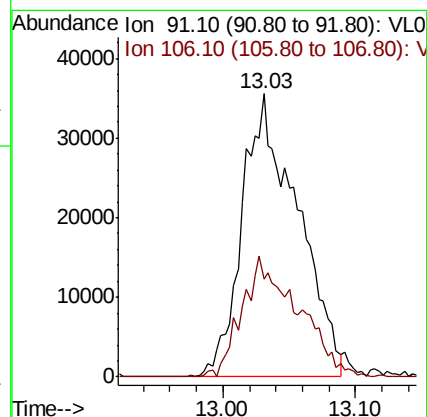
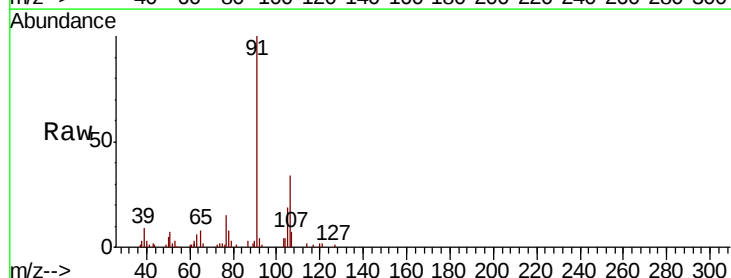
Acq: 6 Feb 2020 18:52

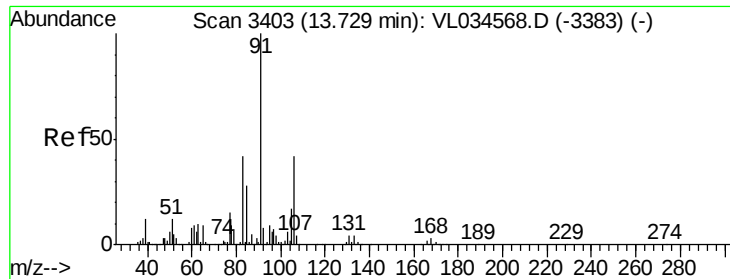
Tgt Ion: 91 Resp: 103042

Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

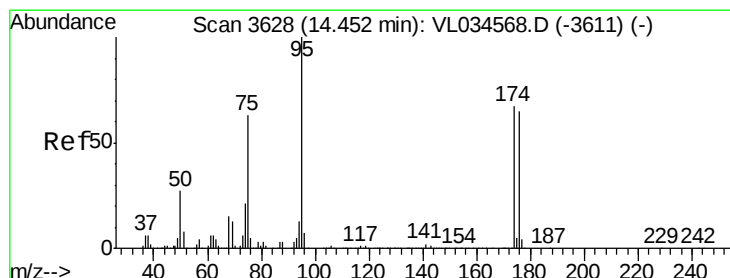
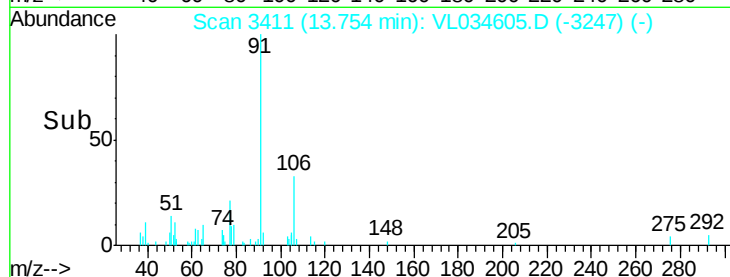
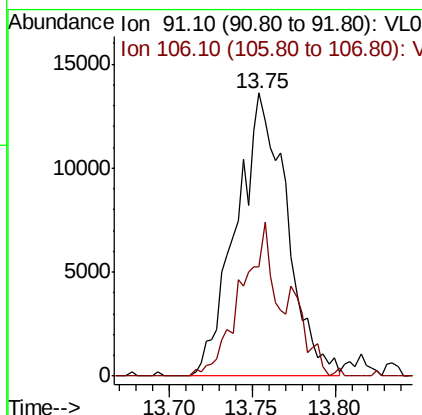
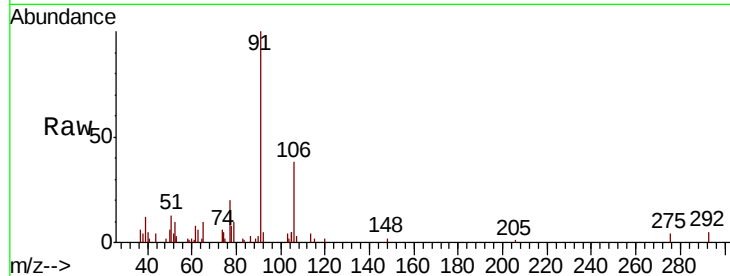




#60
o-Xylene
Concen: 0.136 ppbv m
RT: 13.75 min Scan# 3411
Delta R.T. 0.03 min
Lab File: VL034605.D
Acq: 6 Feb 2020 18:52

Instrument :
MSVOA_L
ClientSampleId :
IA-1DUP

Tot Ion: 91 Resp: 28868
Ion Ratio Lower Upper
91 100
106 47.3 21.6 65.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.294 ppbv
RT: 14.48 min Scan# 3638
Delta R.T. 0.03 min
Lab File: VL034605.D
Acq: 6 Feb 2020 18:52

Tgt Ion: 95 Resp: 1557807
Ion Ratio Lower Upper
95 100
174 64.4 52.3 78.5
175 4.5 3.8 5.6

