

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033221.D
 Acq On : 15 Feb 2019 6:08
 Operator : SY/AP
 Sample : K1483-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:53:08 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019

QLast Update : Wed Feb 20 06:00:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	859741	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1904332	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1859147	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1495320	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

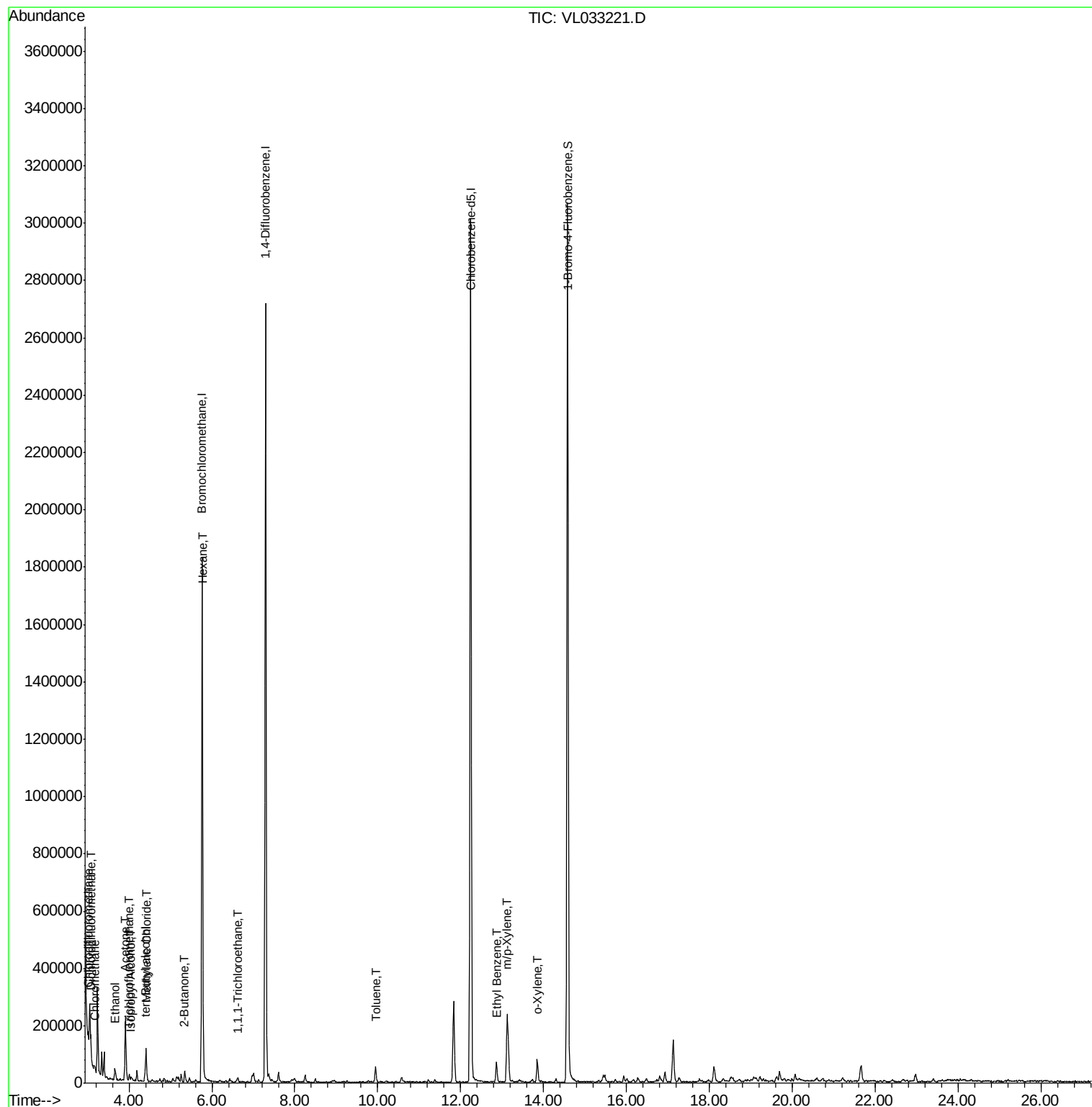
Target Compounds

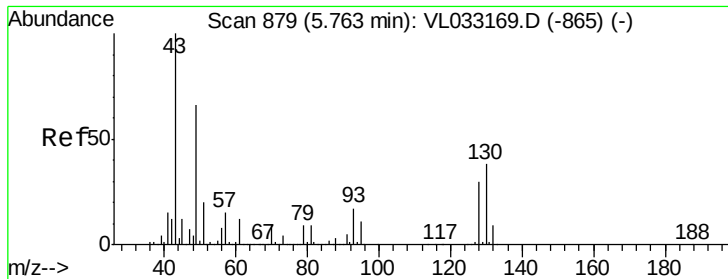
						Ovalue
2) Dichlorodifluoromethane	3.08	85	56428	0.343	ppbv	92
3) Chlorodifluoromethane	3.02	51	35093m	0.339	ppbv	
4) Chloromethane	3.17	50	13991	0.256	ppbv	96
11) Trichlorofluoromethane	4.01	101	12703	0.095	ppbv	98
13) Ethanol	3.66	45	42523m	2.502	ppbv	
15) Acetone	3.91	43	230157	2.376	ppbv	92
17) tert-Butyl alcohol	4.39	59	20657m	1.110	ppbv	
19) Isopropyl Alcohol	4.05	45	11718m	0.178	ppbv	
20) Methylene Chloride	4.41	84	35779	0.929	ppbv	93
26) Hexane	5.78	57	34706	0.339	ppbv #	42
32) 1,1,1-Trichloroethane	6.62	97	7247m	0.042	ppbv	
34) 2-Butanone	5.35	43	44611	0.369	ppbv	98
53) Toluene	9.95	91	36156	0.158	ppbv	98
58) Ethyl Benzene	12.87	91	58490	0.192	ppbv	96
59) m/p-Xylene	13.13	91	261852	1.032	ppbv	96
60) o-Xylene	13.85	91	60892	0.246	ppbv	98

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

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Quant Time: Feb 21 01:53:08 2019
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 06:00:52 2019
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033221.D

Acq: 15 Feb 2019 6:08

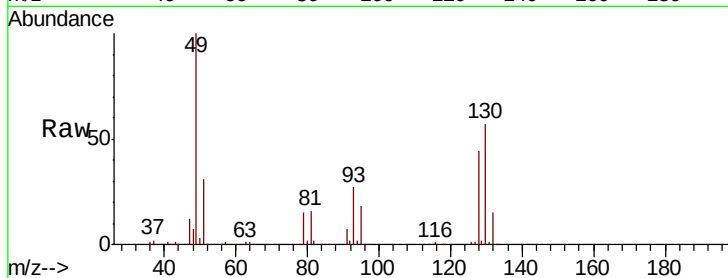
Tot Ion: 49 Resp: 859741

Ion	Ratio	Lower	Upper
49	100		
128	45.5	23.6	71.0
130	58.0	30.3	91.0

49 100

128 45.5 23.6 71.0

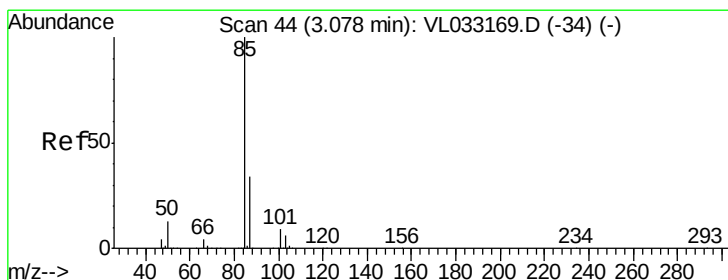
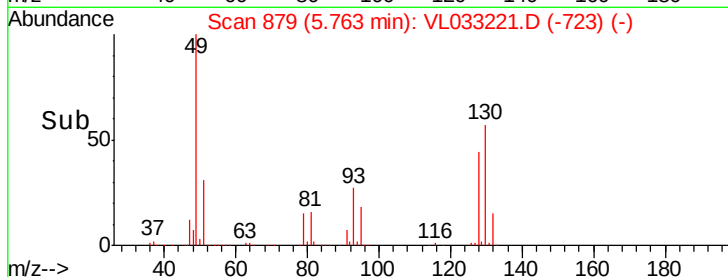
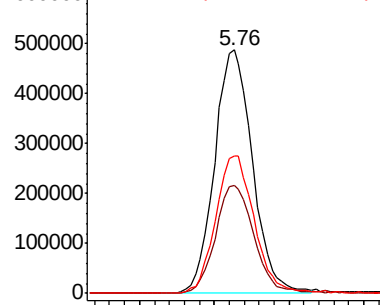
130 58.0 30.3 91.0



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



#2

Dichlorodifluoromethane

Concen: 0.343 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033221.D

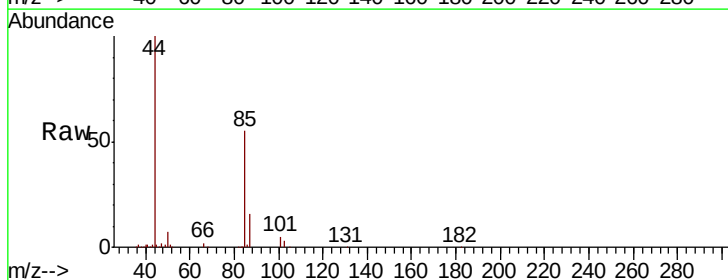
Acq: 15 Feb 2019 6:08

Tgt Ion: 85 Resp: 56428

Ion	Ratio	Lower	Upper
85	100		
87	29.7	27.4	41.2

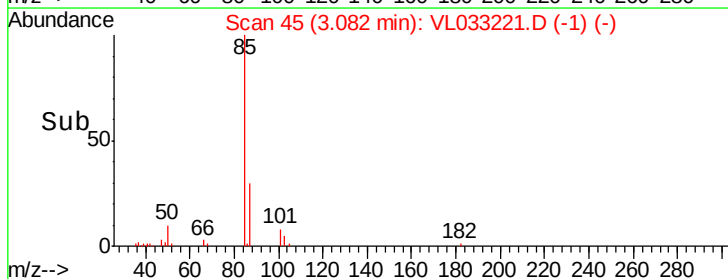
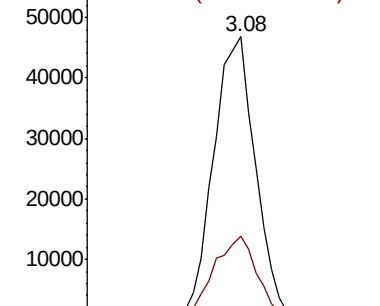
85 100

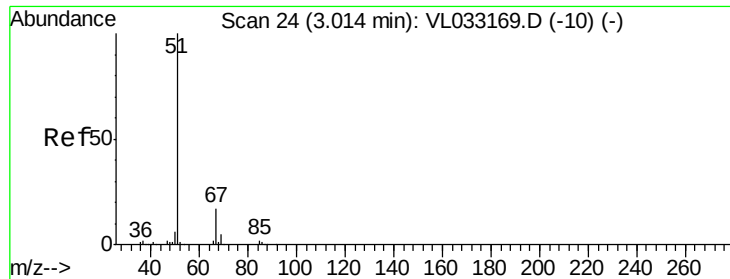
87 29.7 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

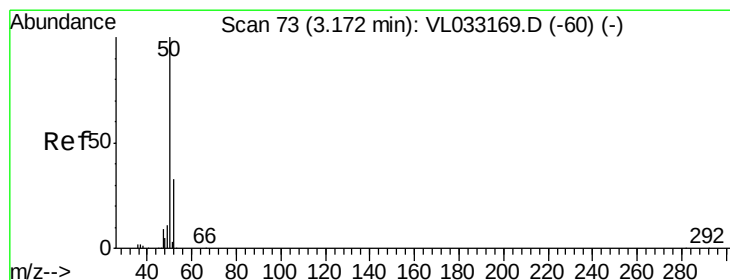
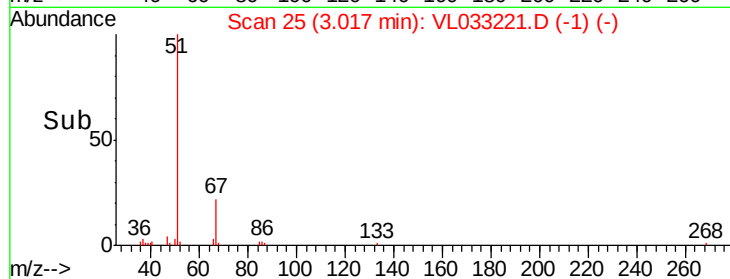
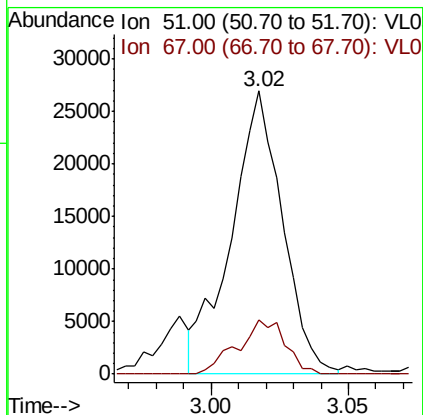
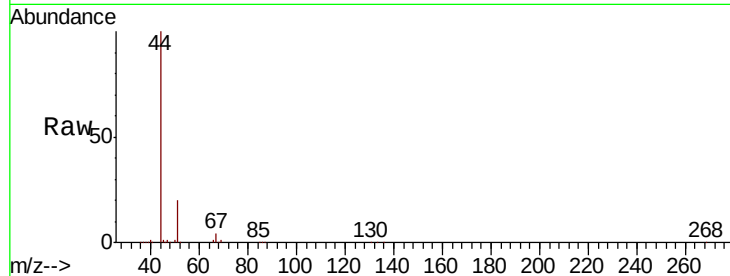




#3

Chlorodifluoromethane
 Concen: 0.339 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033221.D
 Acq: 15 Feb 2019 6:08

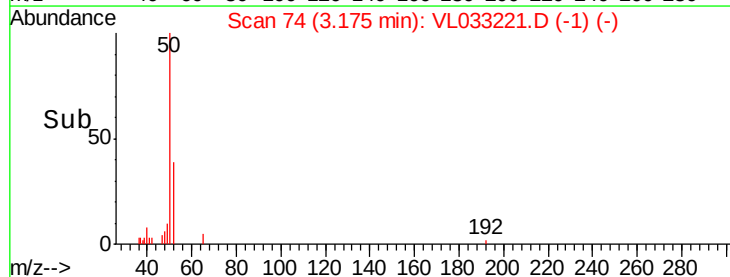
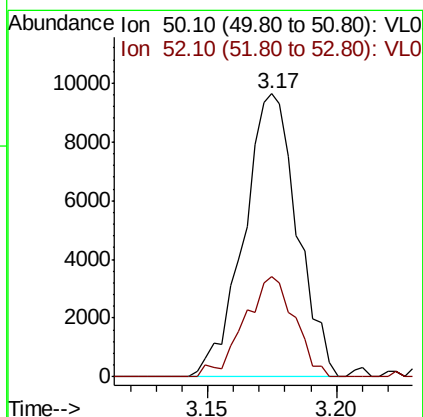
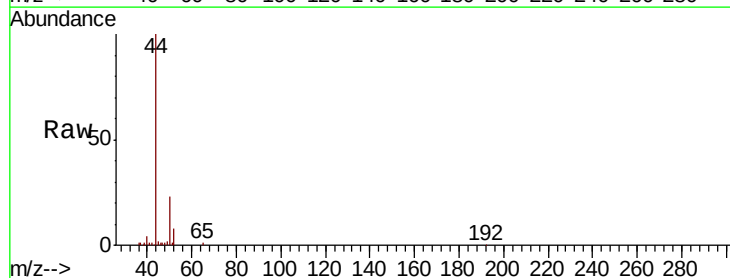
Tot Ion: 51 Resp: 35093
 Ion Ratio Lower Upper
 51 100
 67 17.8 14.0 21.0

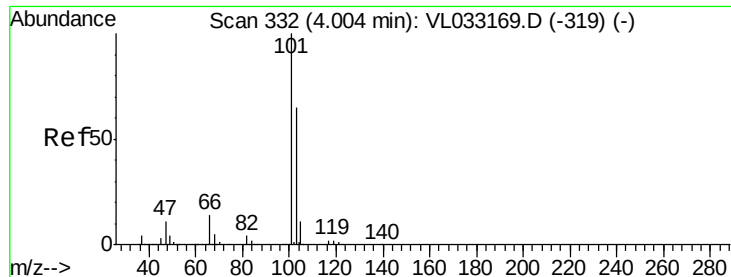


#4

Chloromethane
 Concen: 0.256 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. 0.00 min
 Lab File: VL033221.D
 Acq: 15 Feb 2019 6:08

Tgt Ion: 50 Resp: 13991
 Ion Ratio Lower Upper
 50 100
 52 35.6 26.5 39.7





#11

Trichlorofluoromethane

Concen: 0.095 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033221.D

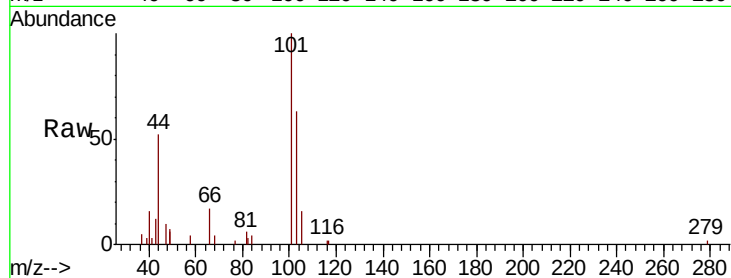
Acq: 15 Feb 2019 6:08

Tot Ion:101 Resp: 12703

Ion Ratio Lower Upper

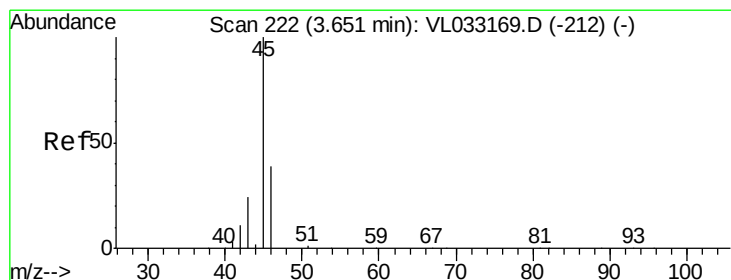
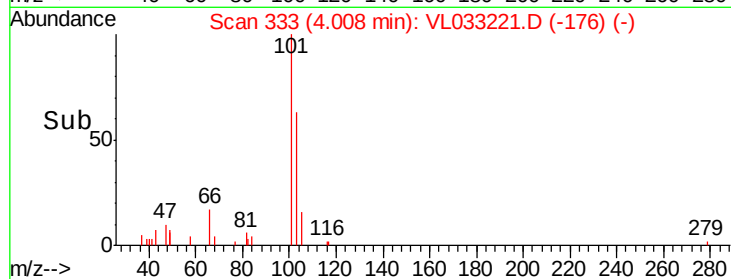
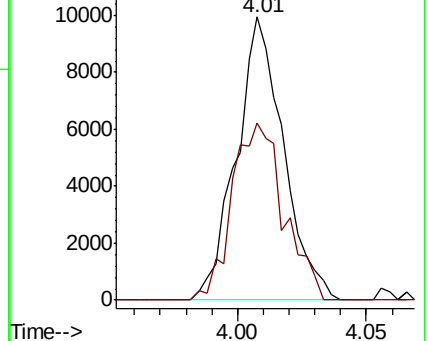
101 100

103 62.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 2.502 ppbv m

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033221.D

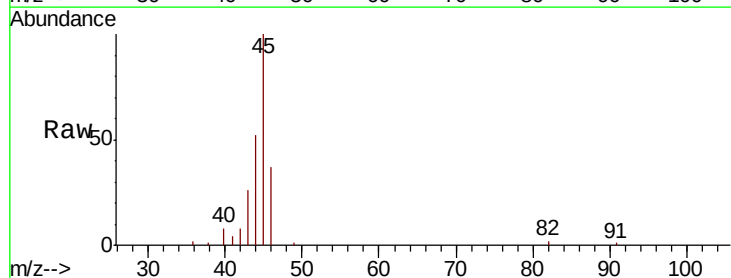
Acq: 15 Feb 2019 6:08

Tgt Ion: 45 Resp: 42523

Ion Ratio Lower Upper

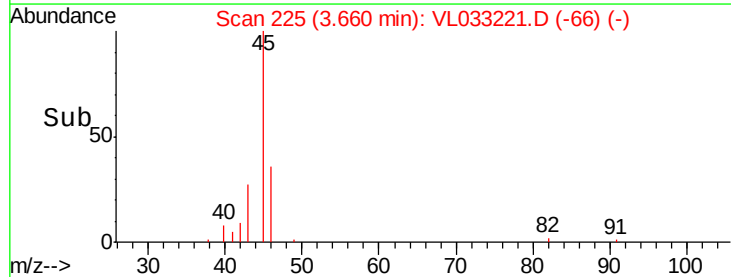
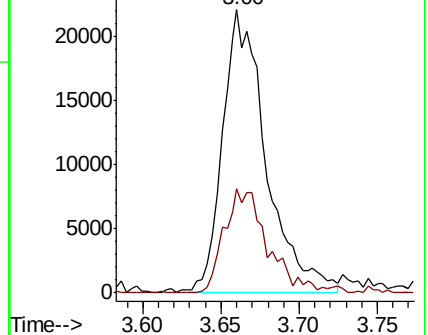
45 100

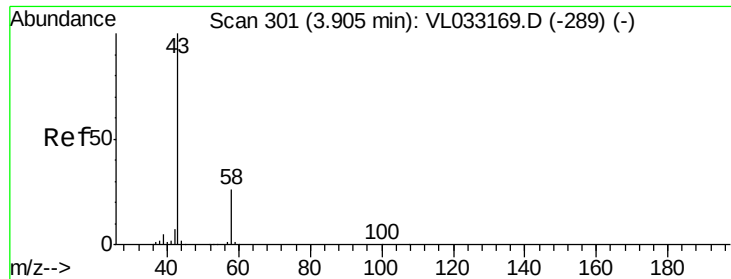
46 38.0 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 2.376 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033221.D

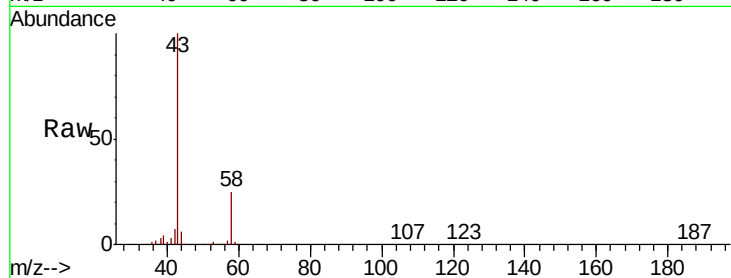
Acq: 15 Feb 2019 6:08

Tot Ion: 43 Resp: 230157

Ion Ratio Lower Upper

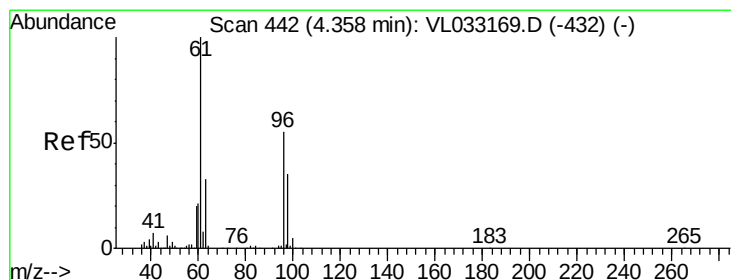
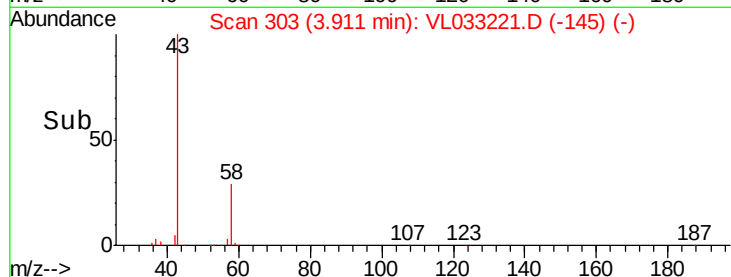
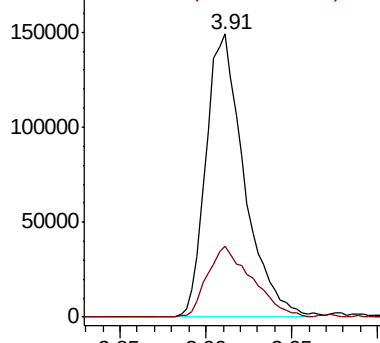
43 100

58 30.3 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 1.110 ppbv m

RT: 4.39 min Scan# 452

Delta R.T. 0.03 min

Lab File: VL033221.D

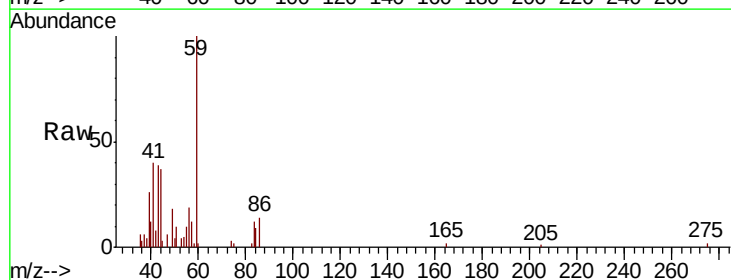
Acq: 15 Feb 2019 6:08

Tgt Ion: 59 Resp: 20657

Ion Ratio Lower Upper

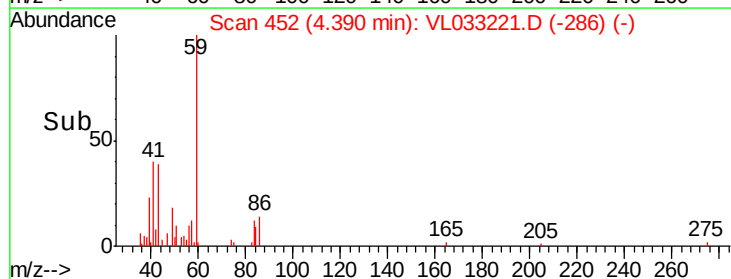
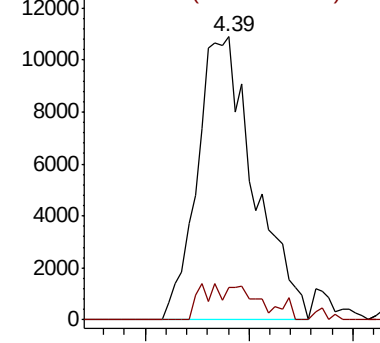
59 100

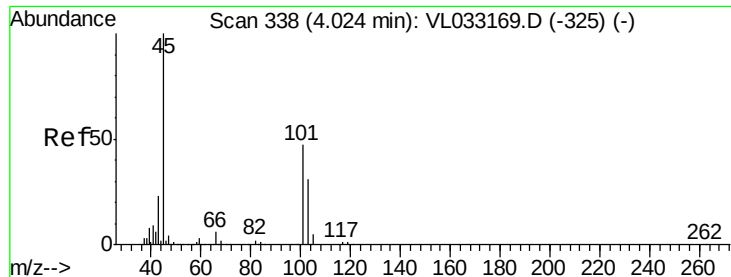
57 13.5 7.6 11.4#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 0.178 ppbv m

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL033221.D

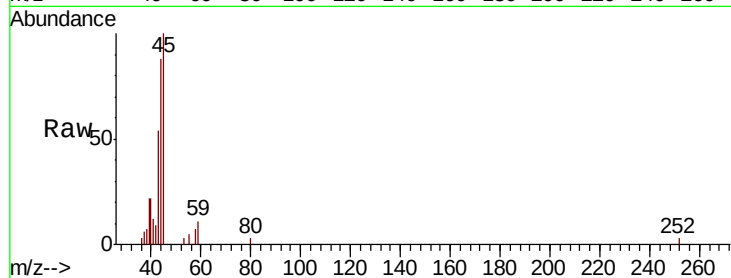
Acq: 15 Feb 2019 6:08

Tot Ion: 45 Resp: 11718

Ion Ratio Lower Upper

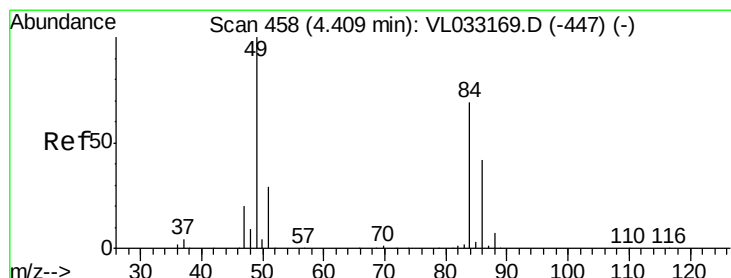
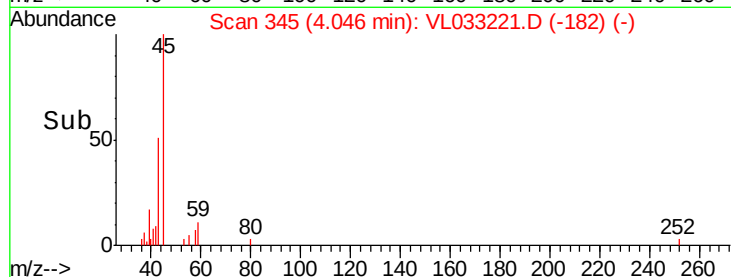
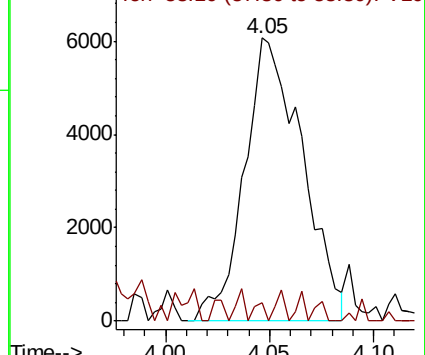
45 100

58 0.0 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.929 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033221.D

Acq: 15 Feb 2019 6:08

Tgt Ion: 84 Resp: 35779

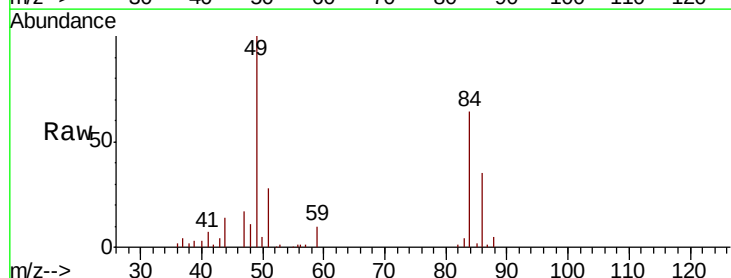
Ion Ratio Lower Upper

84 100

49 153.9 115.8 173.8

51 42.5 33.0 49.6

86 53.9 48.2 72.2

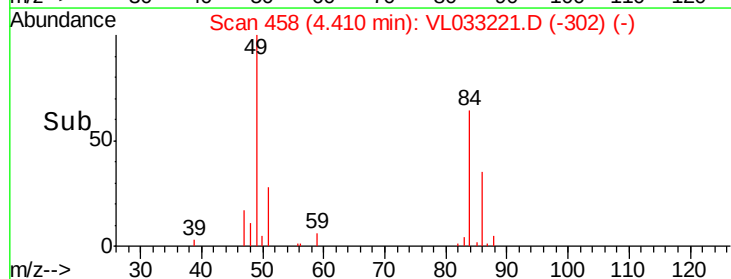
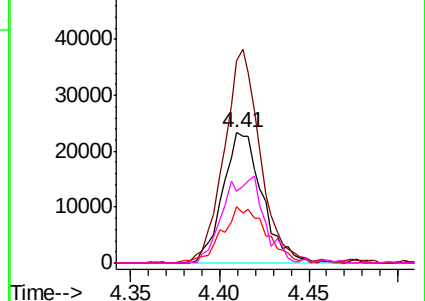


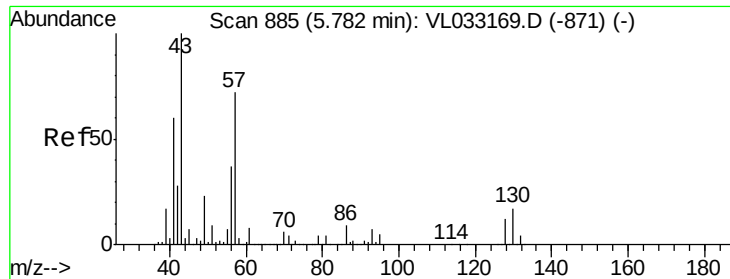
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

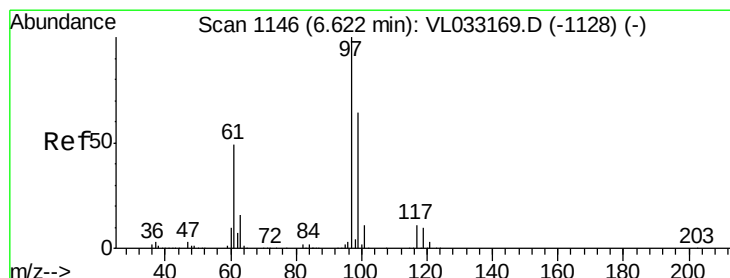
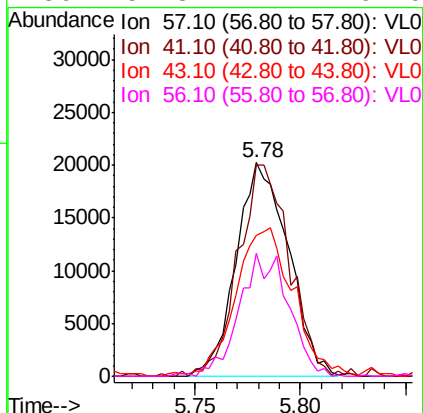
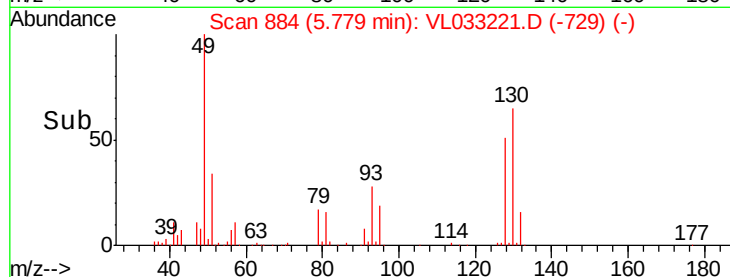
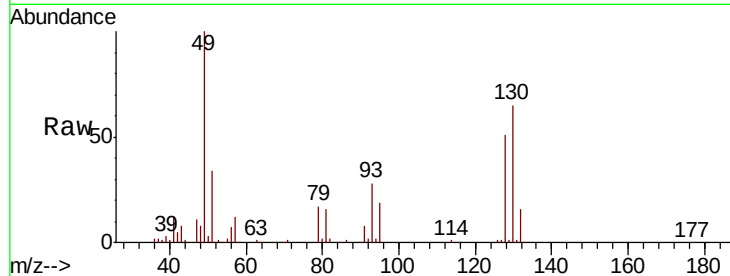
Ion 86.00 (85.70 to 86.70): VL0





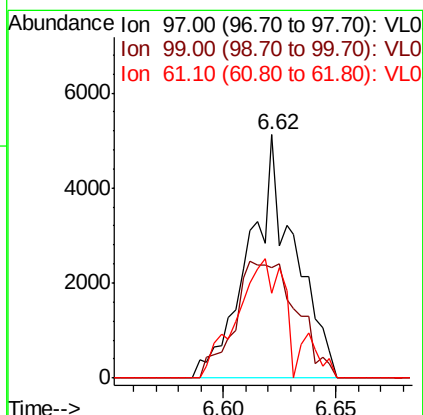
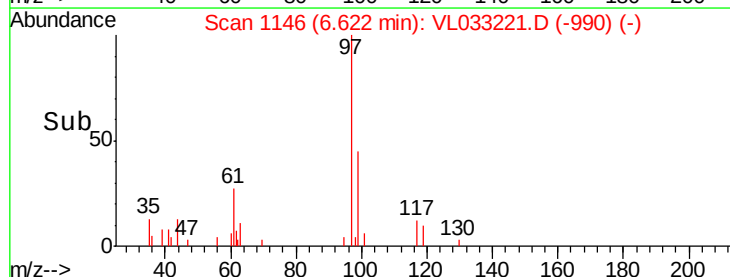
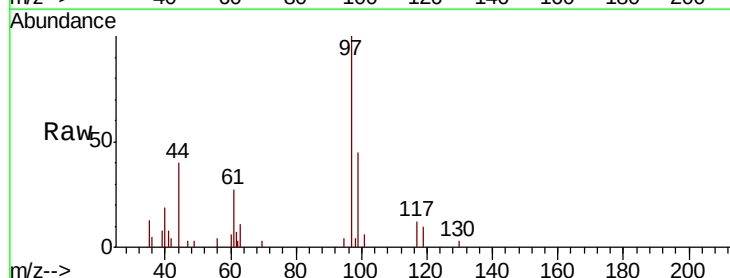
#26
Hexane
Concen: 0.339 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033221.D
Acq: 15 Feb 2019 6:08

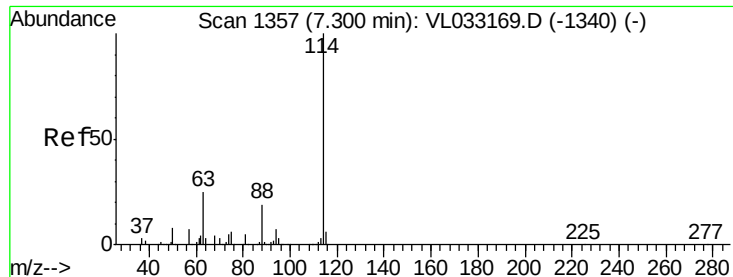
Tot Ion: 57 Resp: 34706
Ion Ratio Lower Upper
57 100
41 97.7 69.4 104.2
43 78.5 176.7 265.1#
56 54.3 41.4 62.0



#32
1,1,1-Trichloroethane
Concen: 0.042 ppbv m
RT: 6.62 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VL033221.D
Acq: 15 Feb 2019 6:08

Tgt Ion: 97 Resp: 7247
Ion Ratio Lower Upper
97 100
99 0.0 51.4 77.2#
61 56.7 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL033221.D

Acq: 15 Feb 2019 6:08

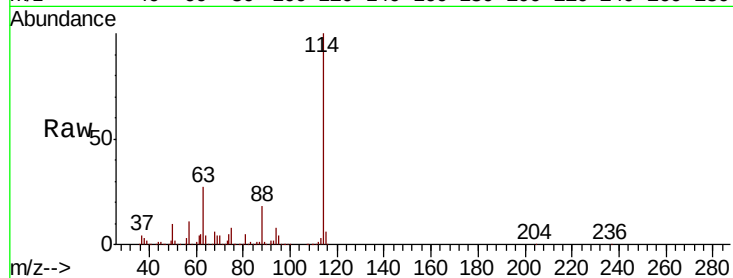
Tot Ion:114 Resp: 1904332

Ion Ratio Lower Upper

114 100

63 27.6 20.8 31.2

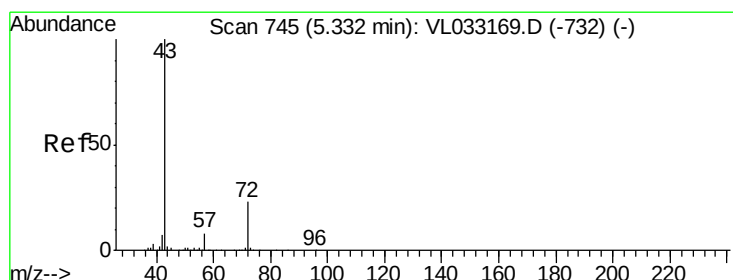
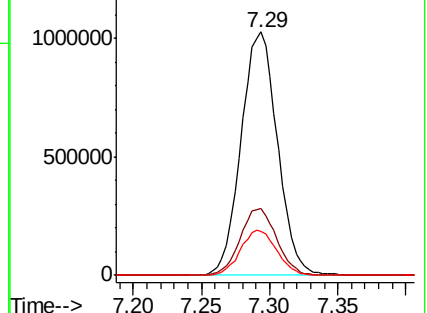
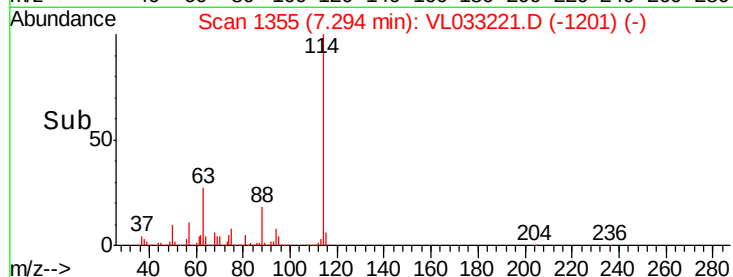
88 18.5 14.6 22.0



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



#34

2-Butanone

Concen: 0.369 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.02 min

Lab File: VL033221.D

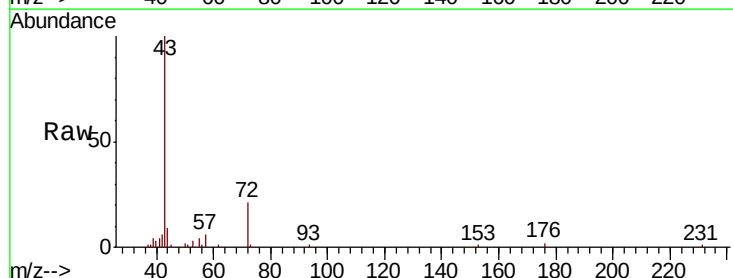
Acq: 15 Feb 2019 6:08

Tgt Ion: 43 Resp: 44611

Ion Ratio Lower Upper

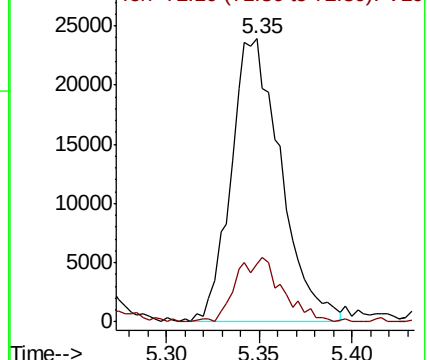
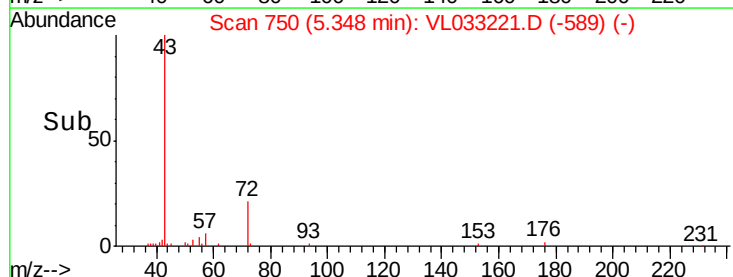
43 100

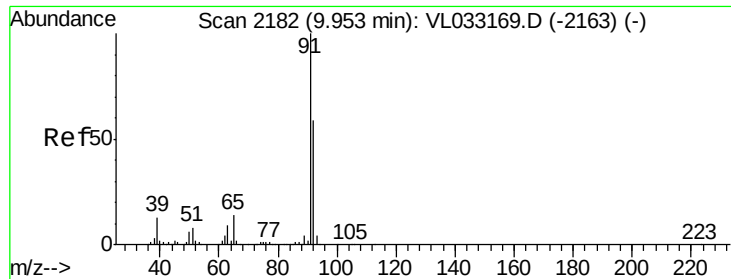
72 21.5 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#53

Toluene

Concen: 0.158 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033221.D

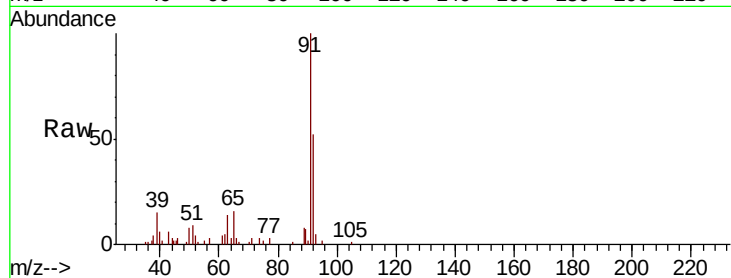
Acq: 15 Feb 2019 6:08

Tot Ion: 91 Resp: 36156

Ion Ratio Lower Upper

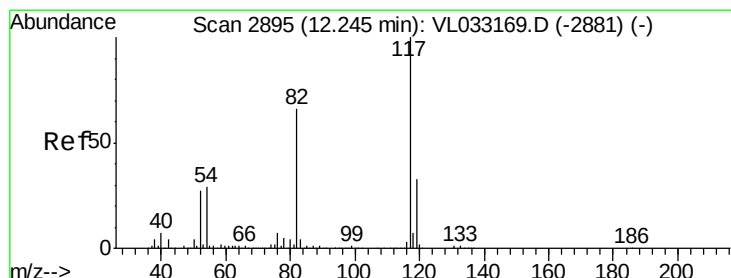
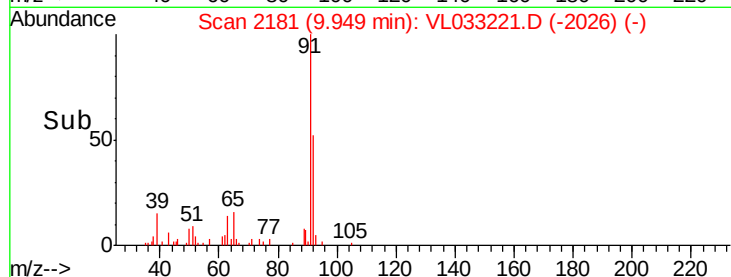
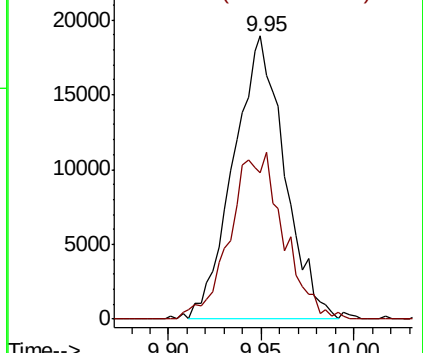
91 100

92 61.4 48.0 72.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033221.D

Acq: 15 Feb 2019 6:08

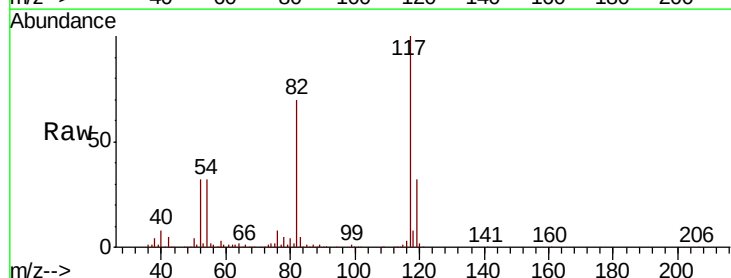
Tgt Ion: 117 Resp: 1859147

Ion Ratio Lower Upper

117 100

82 68.5 53.8 80.8

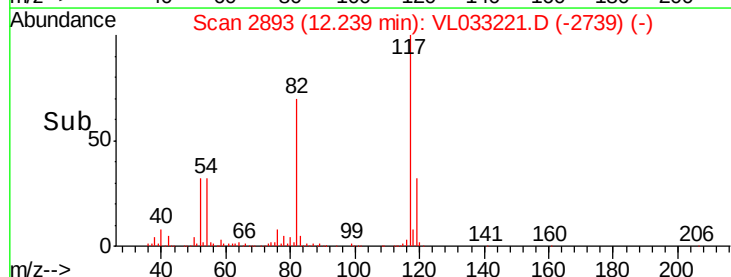
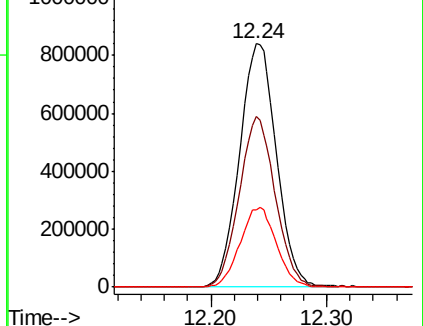
119 32.3 46.9 70.3#

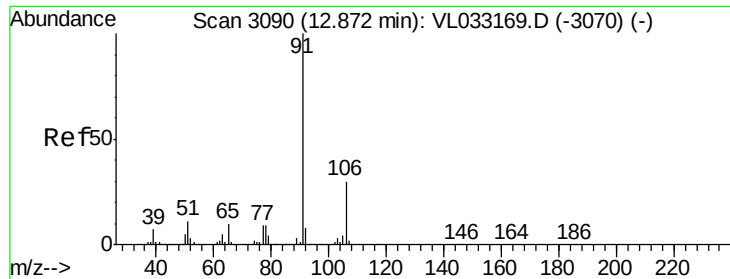


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

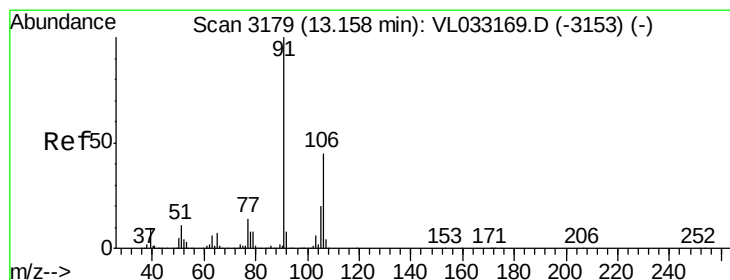
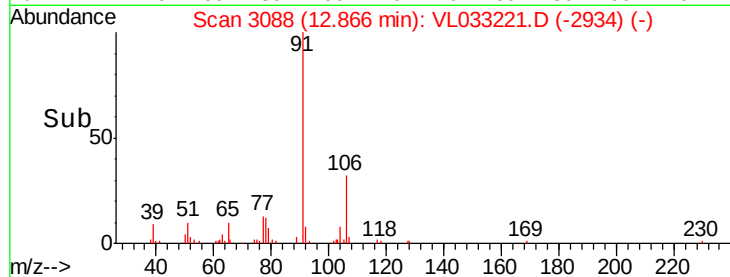
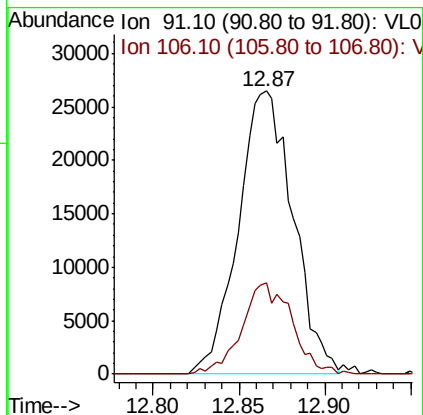
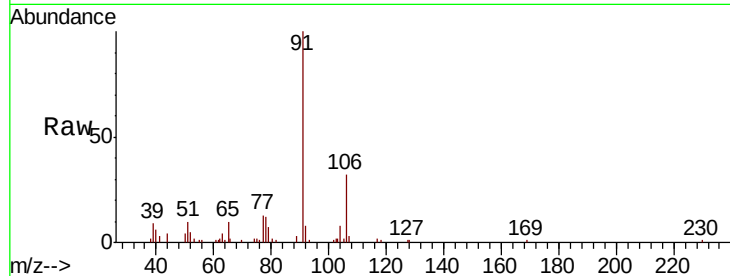
Ion 119.10 (118.80 to 119.80): V





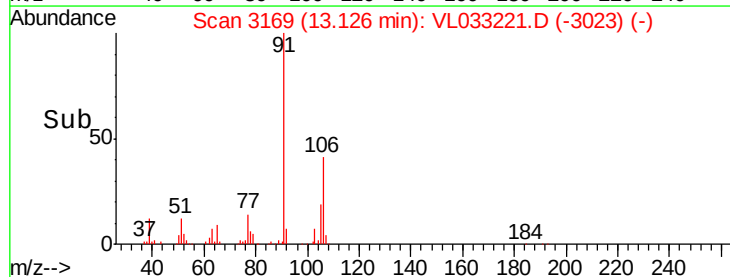
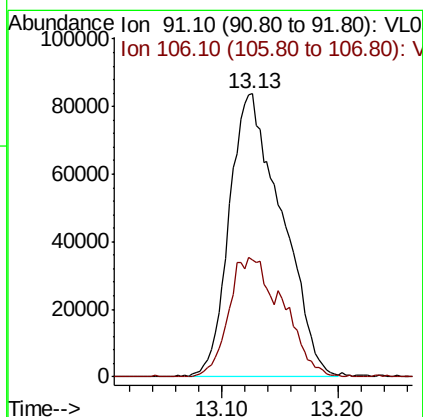
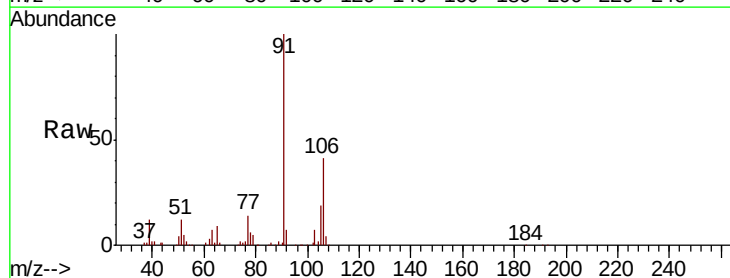
#58
Ethyl Benzene
Concen: 0.192 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033221.D
Acq: 15 Feb 2019 6:08

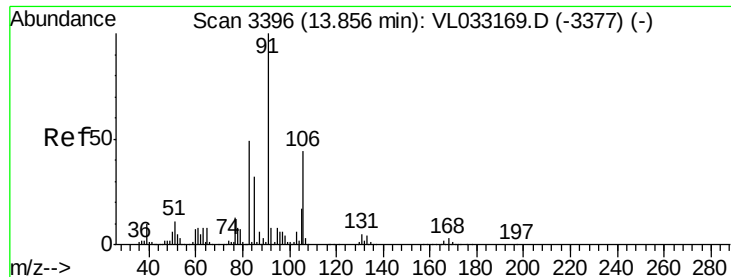
Tot Ion: 91 Resp: 58490
Ion Ratio Lower Upper
91 100
106 32.1 23.8 35.8



#59
m/p-Xylene
Concen: 1.032 ppbv
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033221.D
Acq: 15 Feb 2019 6:08

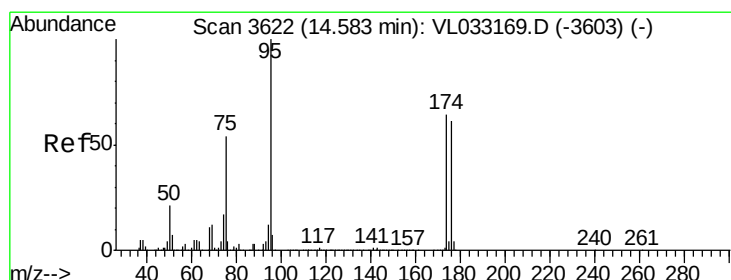
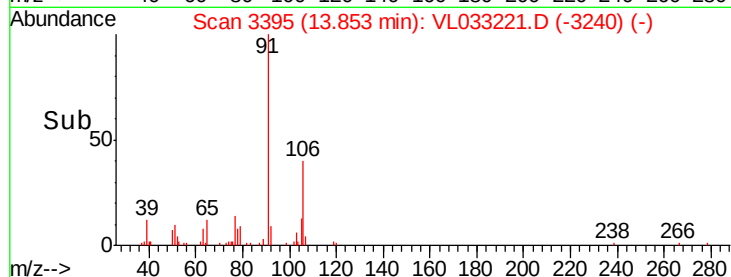
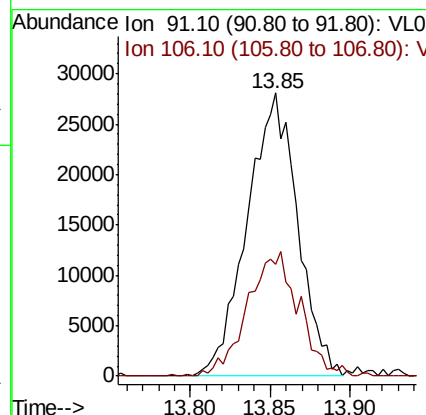
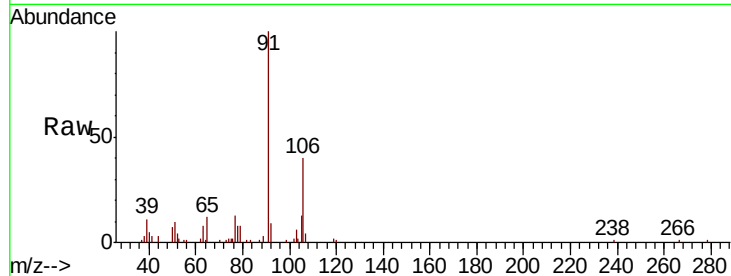
Tgt Ion: 91 Resp: 261852
Ion Ratio Lower Upper
91 100
106 43.3 36.6 55.0





#60
o-Xylene
Concen: 0.246 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033221.D
Acq: 15 Feb 2019 6:08

Tot Ion: 91 Resp: 60892
Ion Ratio Lower Upper
91 100
106 45.0 21.8 65.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.321 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL033221.D
Acq: 15 Feb 2019 6:08

Tgt Ion: 95 Resp: 1495320
Ion Ratio Lower Upper
95 100
174 63.5 51.1 76.7
175 4.5 3.8 5.6

