

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
 Data File : VL033204.D
 Acq On : 14 Feb 2019 18:57
 Operator : SY/AP
 Sample : K1483-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:18:04 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019

QLast Update : Wed Feb 06 09:13:11 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	971288	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2178689	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	2201873	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1783289	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

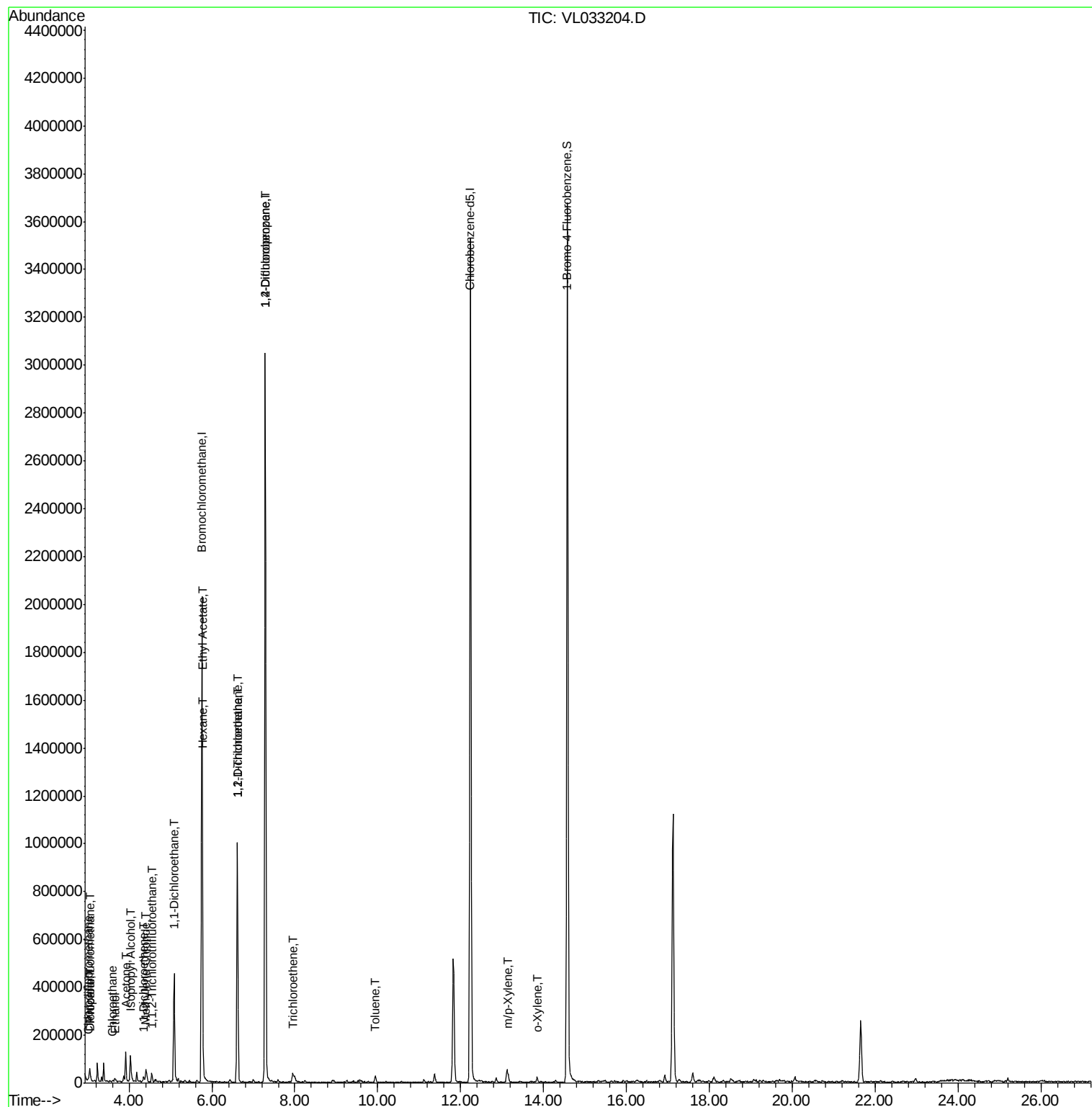
Target Compounds

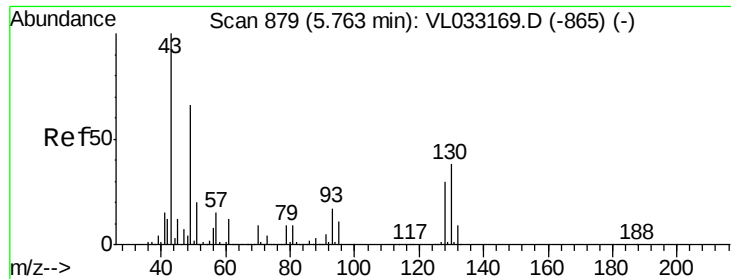
					Qvalue	
2) Dichlorodifluoromethane	3.08	85	9763	0.053	ppbv #	78
3) Chlorodifluoromethane	3.01	51	5249	0.045	ppbv	97
7) Chloroethane	3.59	64	2763	0.131	ppbv #	42
9) Propene	3.05	41	4793	0.085	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7257	0.070	ppbv #	14
13) Ethanol	3.66	45	4741	0.252	ppbv #	1
15) Acetone	3.91	43	82725	0.756	ppbv #	87
18) 1,1-Dichloroethene	4.35	96	4769	0.102	ppbv #	84
19) Isopropyl Alcohol	4.04	45	112139	1.511	ppbv #	98
20) Methylene Chloride	4.41	84	9352	0.215	ppbv	89
24) 1,1-Dichloroethane	5.08	63	378899	2.825	ppbv	99
25) Ethyl Acetate	5.78	43	11480	0.047	ppbv #	81
26) Hexane	5.78	57	7410	0.064	ppbv #	36
32) 1,1,1-Trichloroethane	6.61	97	613900	3.150	ppbv	97
37) 1,2-Dichloroethane	6.62	62	44290	0.362	ppbv #	1
38) Trichloroethene	7.95	130	4915	0.052	ppbv #	75
39) 1,2-Dichloropropane	7.28	63	589178	6.756	ppbv #	25
53) Toluene	9.94	91	9790	0.037	ppbv #	33
59) m/p-Xylene	13.15	91	14549	0.049	ppbv #	100
60) o-Xylene	13.85	91	12989	0.045	ppbv	91

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

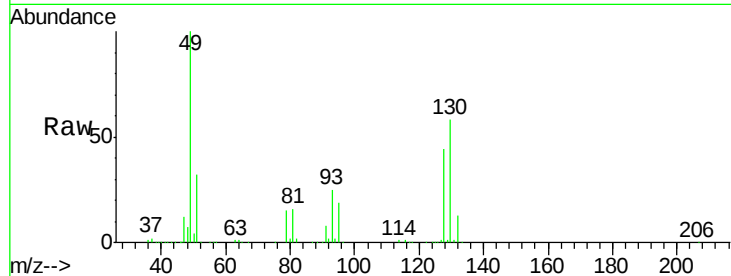
Tgt Ion: 49 Resp: 971288

Ion Ratio Lower Upper

49 100

128 45.5 23.6 71.0

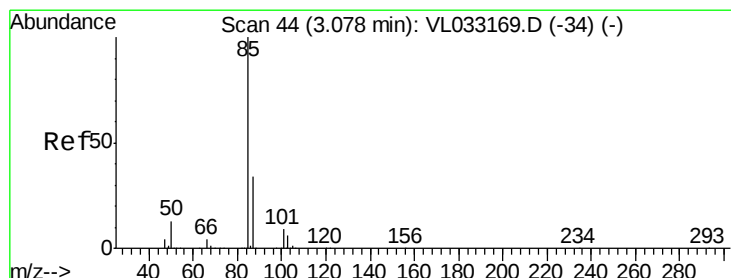
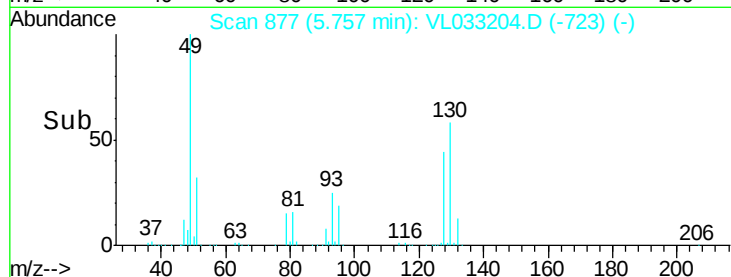
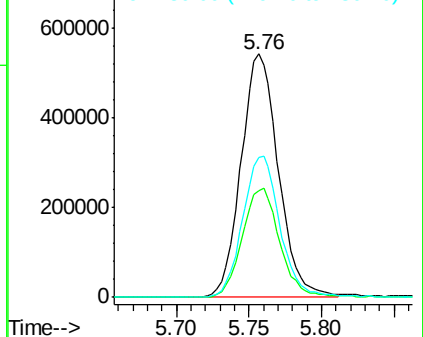
130 58.7 30.3 91.0



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: 0.053 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033204.D

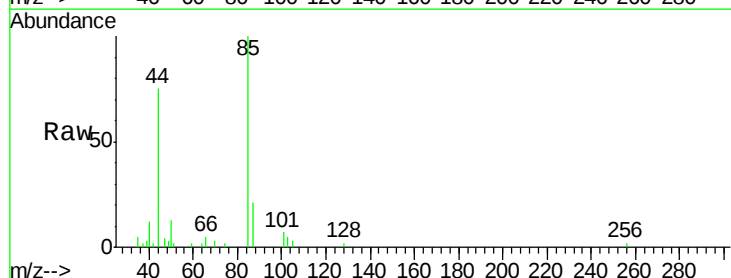
Acq: 14 Feb 2019 18:57

Tgt Ion: 85 Resp: 9763

Ion Ratio Lower Upper

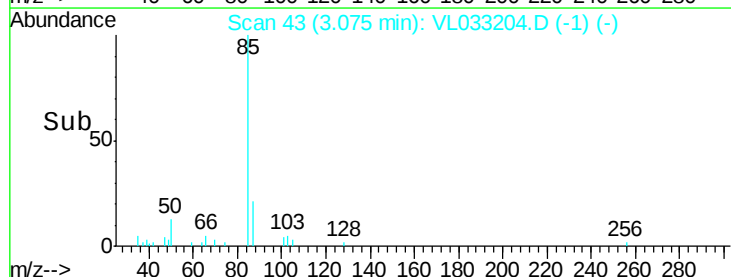
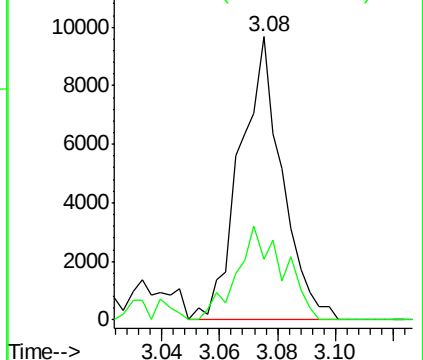
85 100

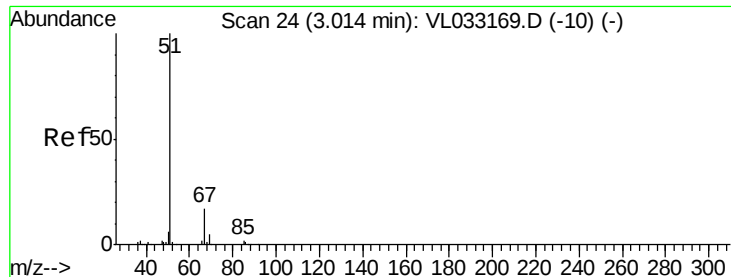
87 21.4 27.4 41.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033204.D

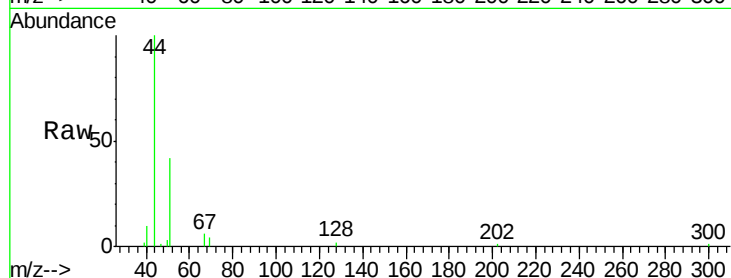
Acq: 14 Feb 2019 18:57

Tgt Ion: 51 Resp: 5249

Ion Ratio Lower Upper

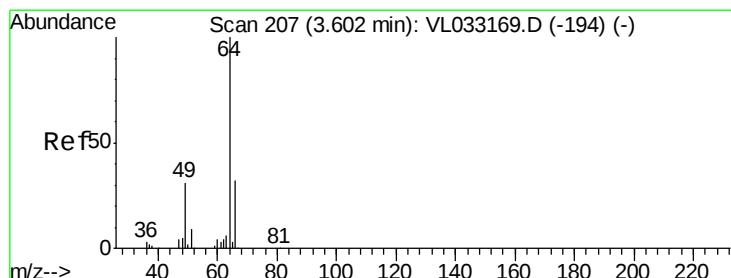
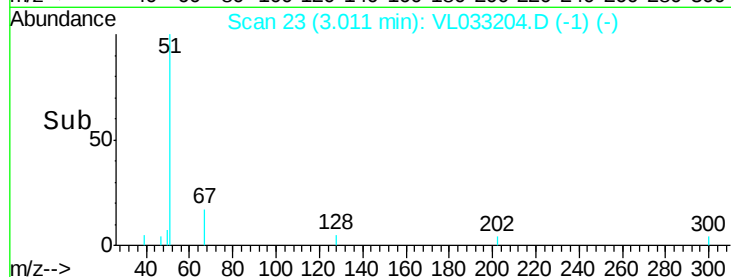
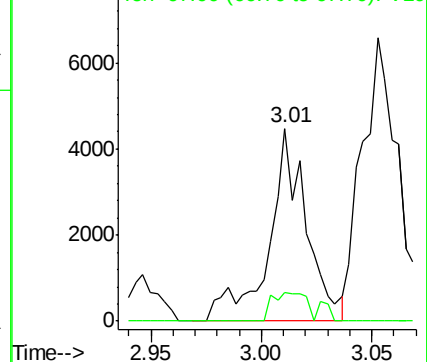
51 100

67 16.3 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.131 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.01 min

Lab File: VL033204.D

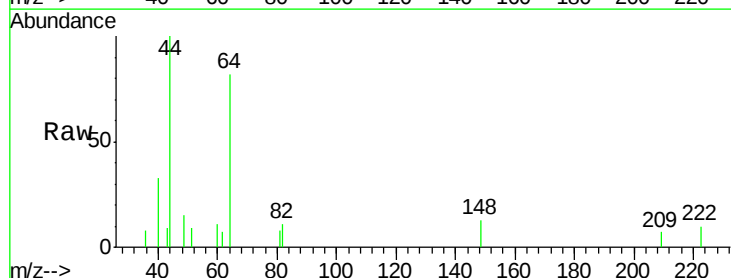
Acq: 14 Feb 2019 18:57

Tgt Ion: 64 Resp: 2763

Ion Ratio Lower Upper

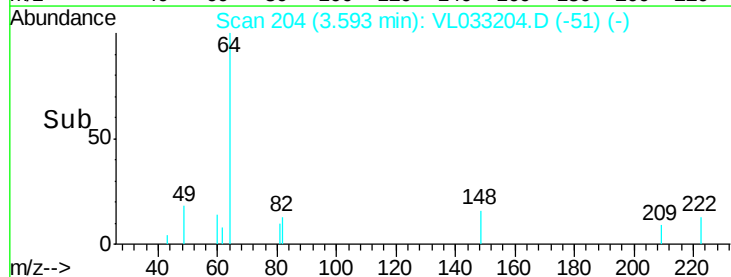
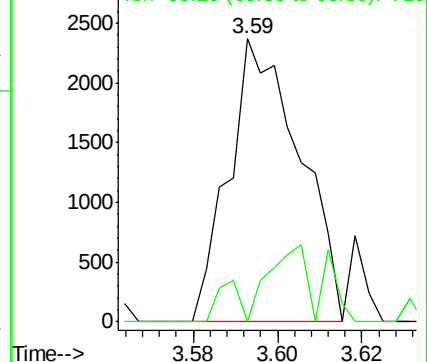
64 100

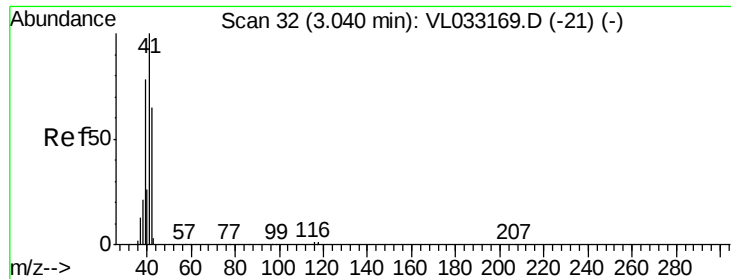
66 0.0 26.0 39.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.085 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033204.D

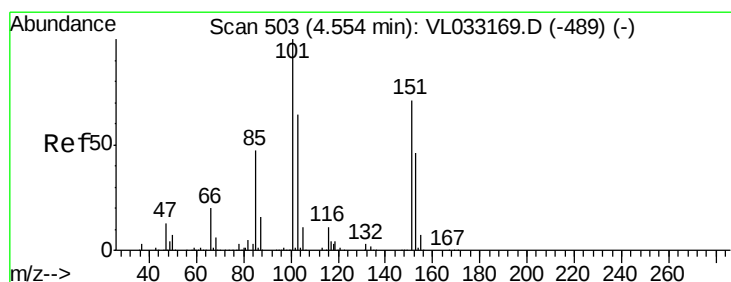
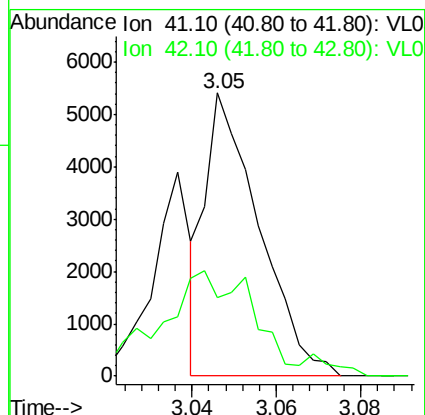
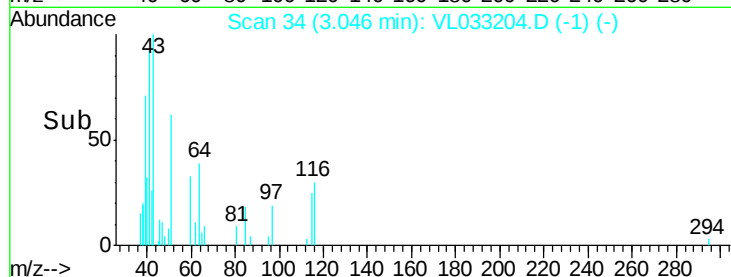
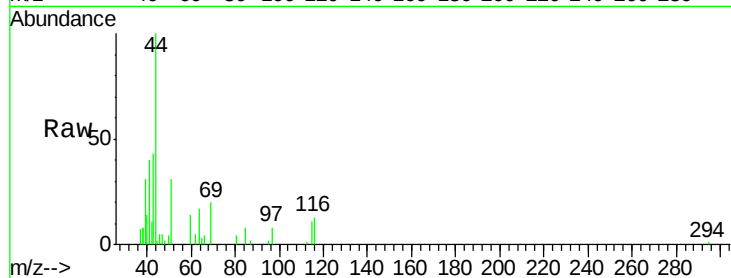
Acq: 14 Feb 2019 18:57

Tgt Ion: 41 Resp: 4793

Ion Ratio Lower Upper

41 100

42 69.0 55.0 82.6



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.070 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033204.D

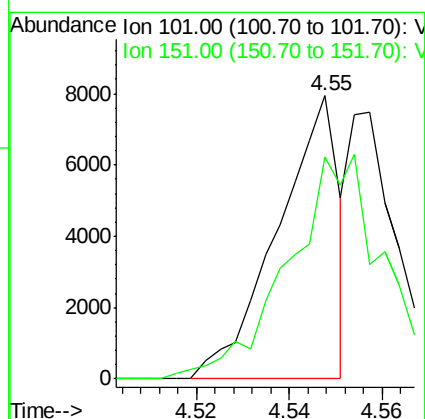
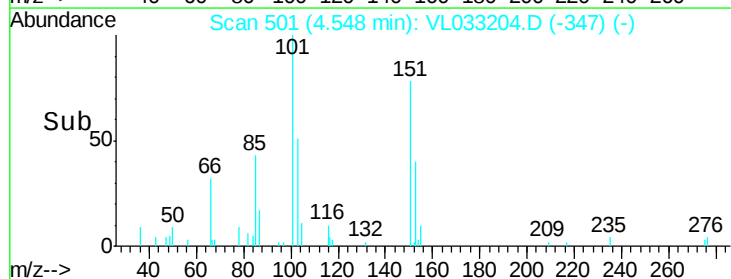
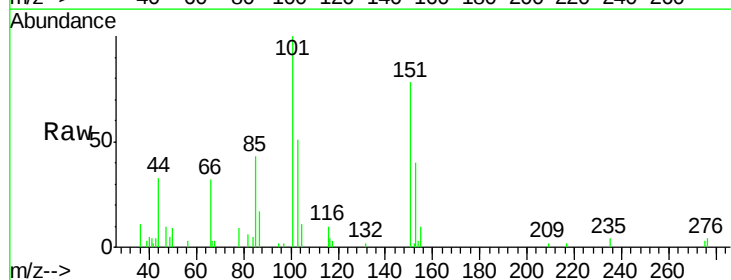
Acq: 14 Feb 2019 18:57

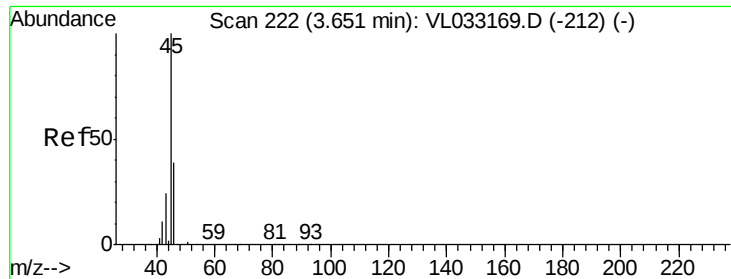
Tgt Ion: 101 Resp: 7257

Ion Ratio Lower Upper

101 100

151 0.0 57.4 86.0#





#13

Ethanol

Concen: 0.252 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.01 min

Lab File: VL033204.D

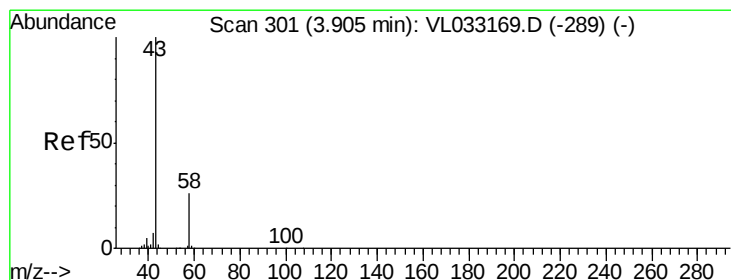
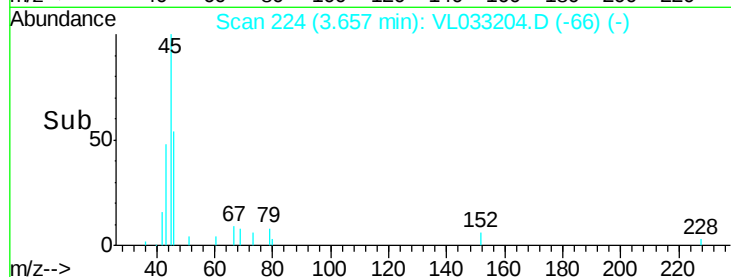
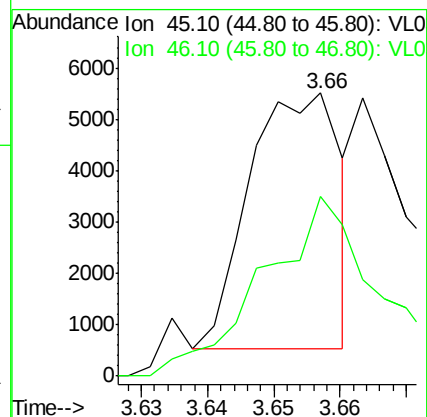
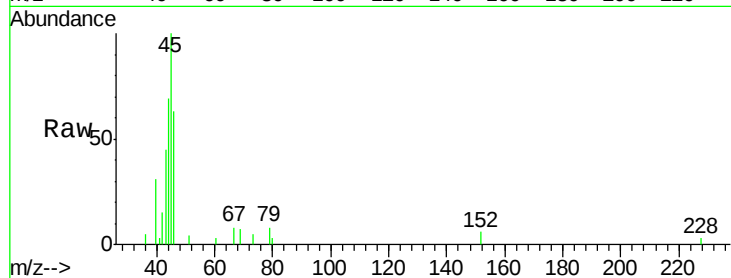
Acq: 14 Feb 2019 18:57

Tgt Ion: 45 Resp: 4741

Ion Ratio Lower Upper

45 100

46 102.0 15.0 60.2#



#15

Acetone

Concen: 0.756 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033204.D

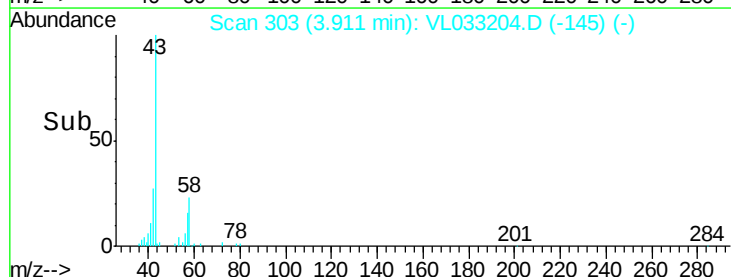
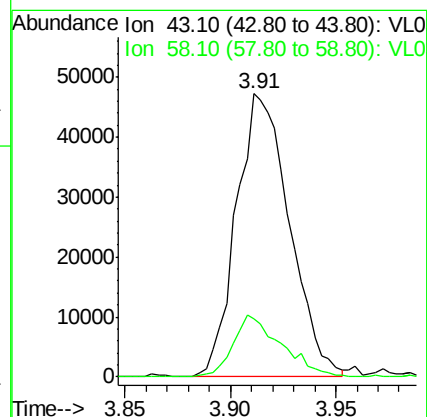
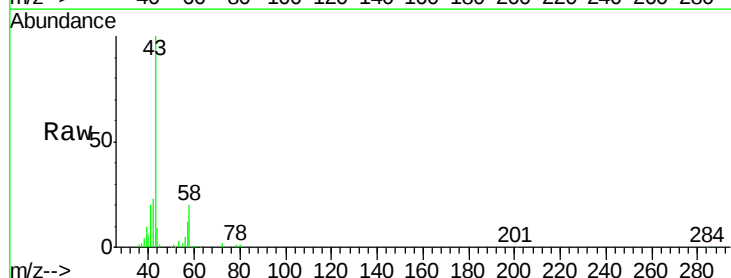
Acq: 14 Feb 2019 18:57

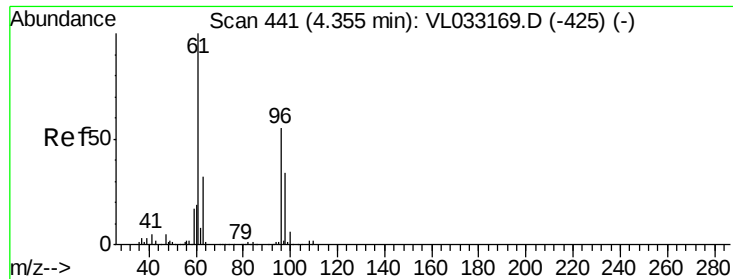
Tgt Ion: 43 Resp: 82725

Ion Ratio Lower Upper

43 100

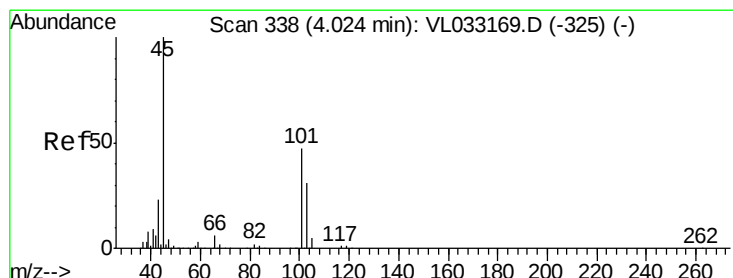
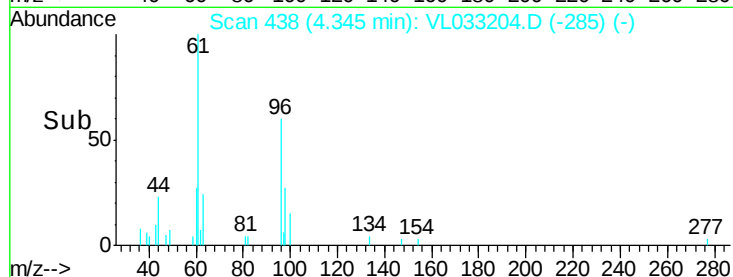
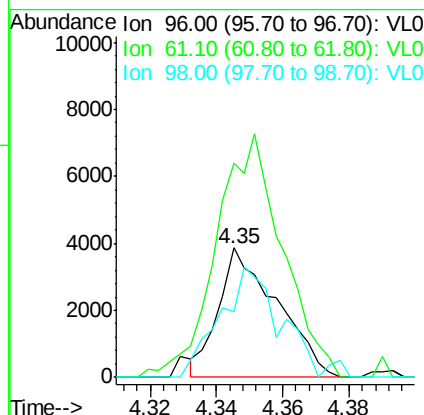
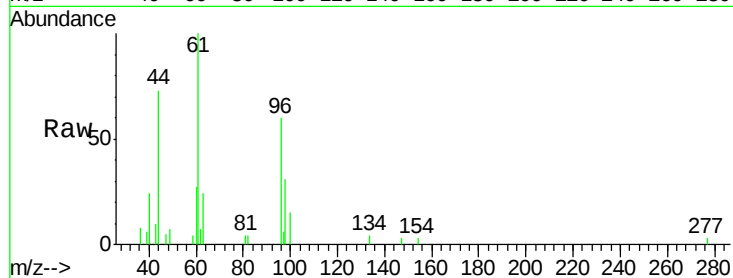
58 20.0 21.1 31.7#





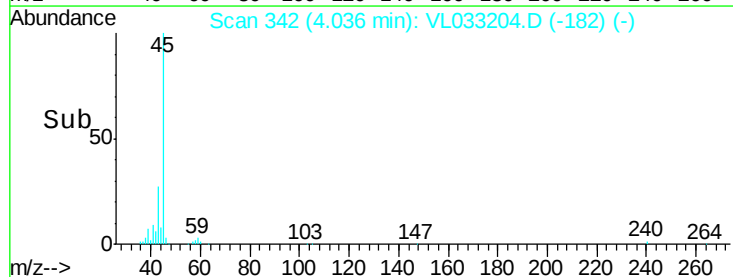
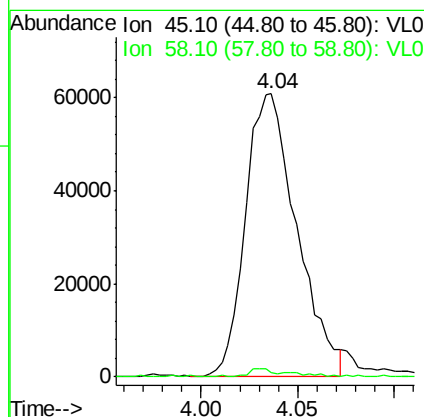
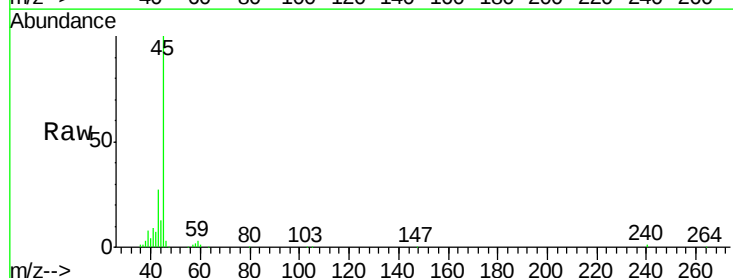
#18
 1,1-Dichloroethene
 Concen: 0.102 ppbv
 RT: 4.35 min Scan# 438
 Delta R.T. -0.01 min
 Lab File: VL033204.D
 Acq: 14 Feb 2019 18:57

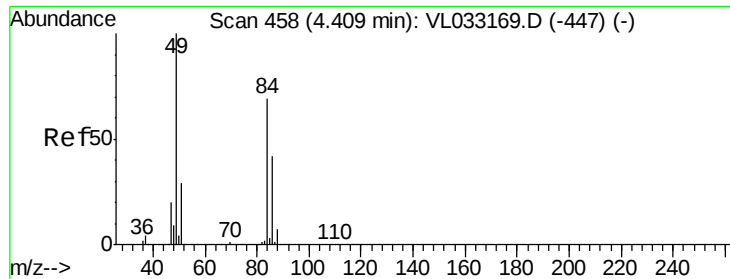
Tgt Ion: 96 Resp: 4769
 Ion Ratio Lower Upper
 96 100
 61 165.9 145.0 217.6
 98 38.2 50.0 75.0#



#19
 Isopropyl Alcohol
 Concen: 1.511 ppbv
 RT: 4.04 min Scan# 342
 Delta R.T. 0.01 min
 Lab File: VL033204.D
 Acq: 14 Feb 2019 18:57

Tgt Ion: 45 Resp: 112139
 Ion Ratio Lower Upper
 45 100
 58 2.6 1.5 2.3#





#20

Methylene Chloride

Concen: 0.215 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Tgt Ion: 84 Resp: 9352

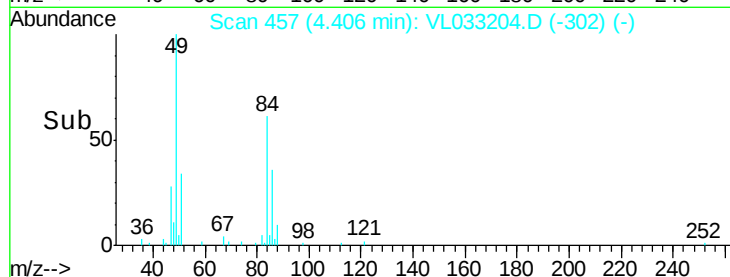
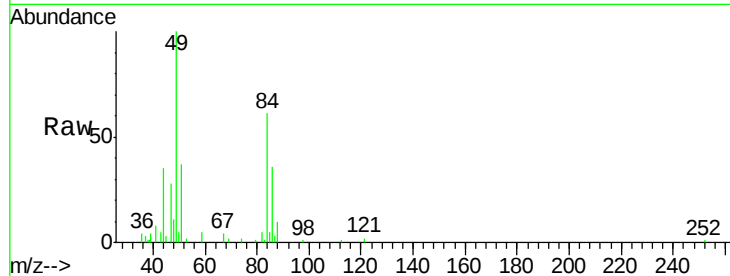
Ion Ratio Lower Upper

84 100

49 164.9 115.8 173.8

51 40.1 33.0 49.6

86 56.2 48.2 72.2

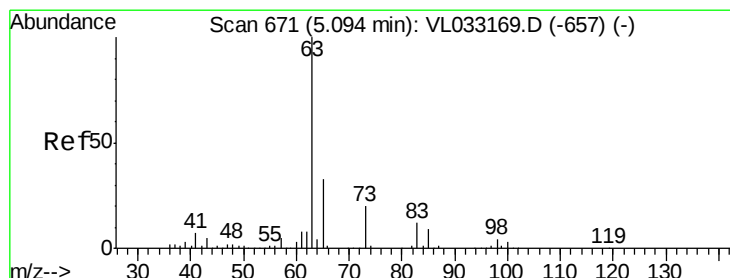
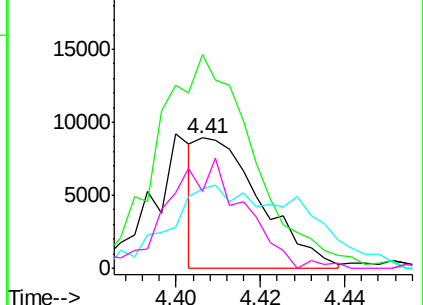


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#24

1,1-Dichloroethane

Concen: 2.825 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

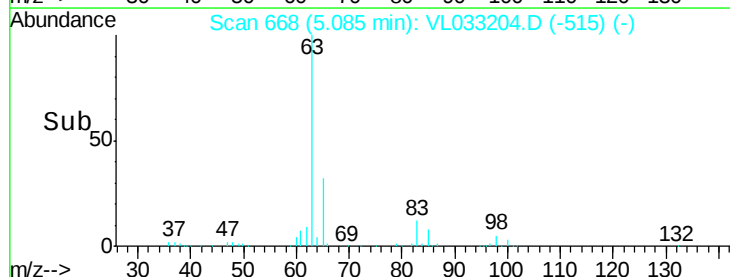
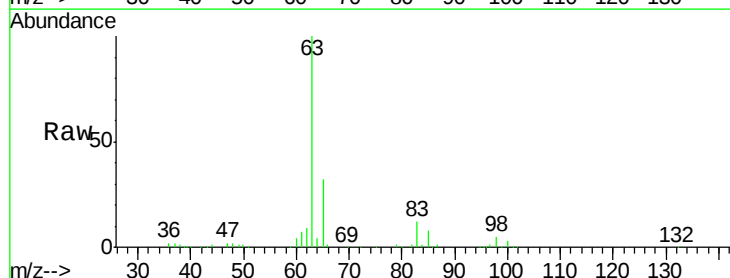
Tgt Ion: 63 Resp: 378899

Ion Ratio Lower Upper

63 100

98 4.6 2.1 6.5

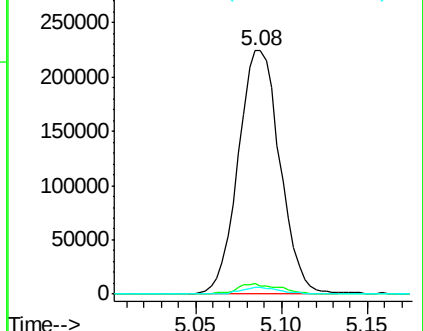
100 2.7 1.4 4.2

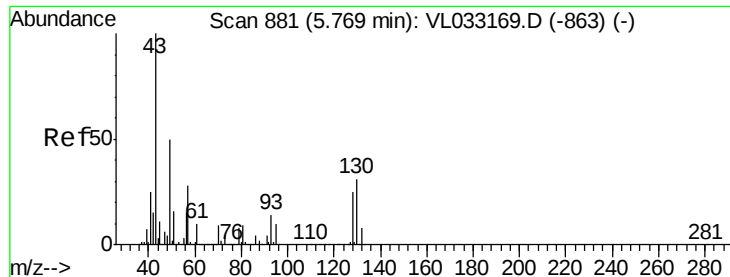


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

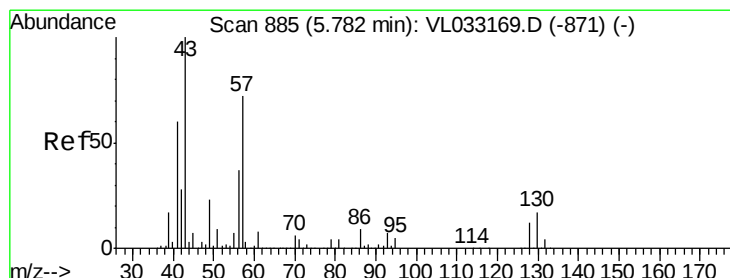
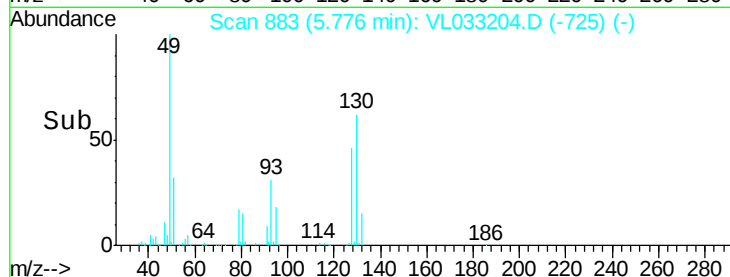
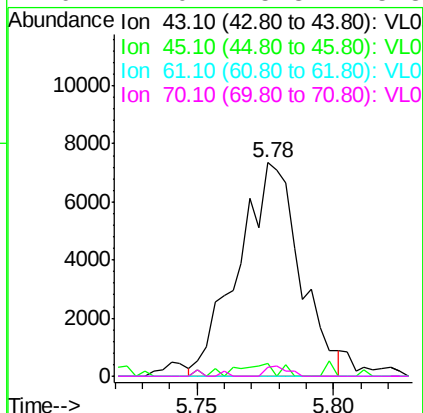
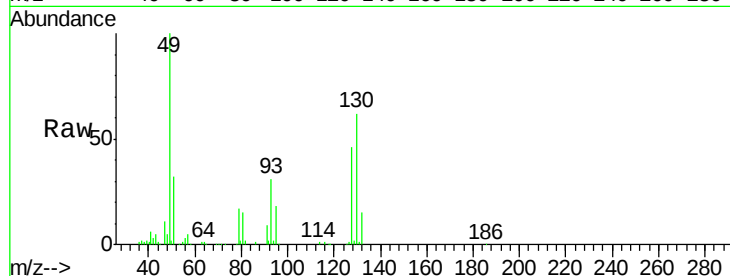
Ion 100.00 (99.70 to 100.70): VL0





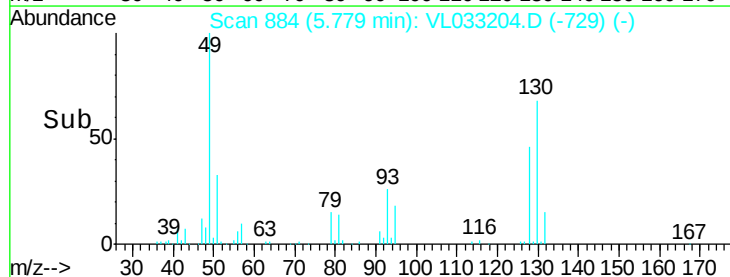
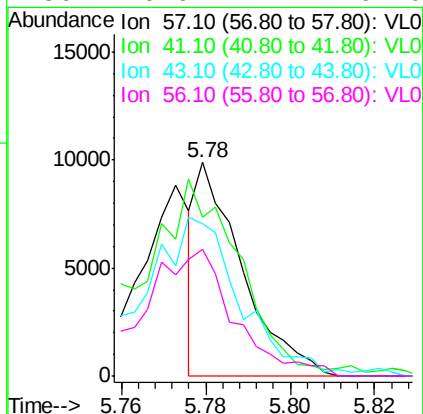
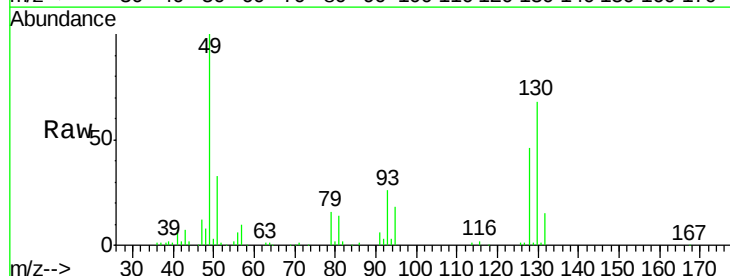
#25
Ethyl Acetate
Concen: 0.047 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033204.D
Acq: 14 Feb 2019 18:57

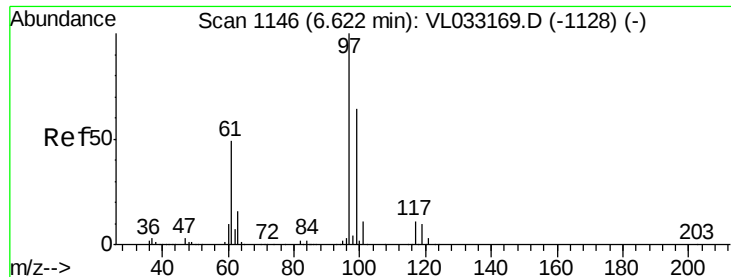
Tgt Ion:	43	Resp:	11480
Ion	Ratio	Lower	Upper
43	100		
45	4.3	7.9	11.9#
61	0.0	7.5	11.3#
70	2.0	5.8	8.8#



#26
Hexane
Concen: 0.064 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033204.D
Acq: 14 Feb 2019 18:57

Tgt Ion:	57	Resp:	7410
Ion	Ratio	Lower	Upper
57	100		
41	200.0	69.4	104.2#
43	165.2	176.7	265.1#
56	116.6	41.4	62.0#





#32

1,1,1-Trichloroethane

Concen: 3.150 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

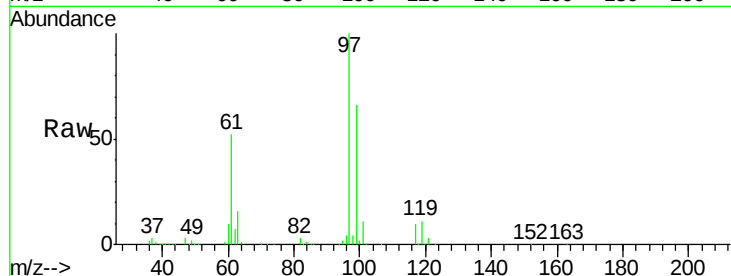
Tgt Ion: 97 Resp: 613900

Ion Ratio Lower Upper

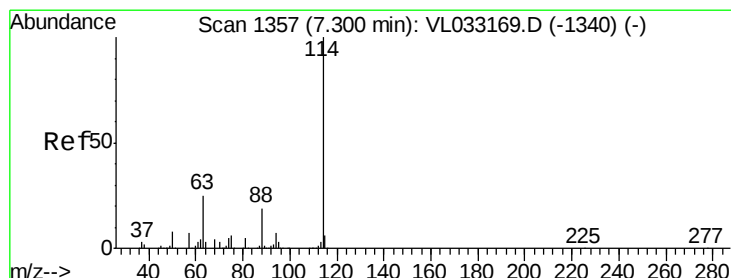
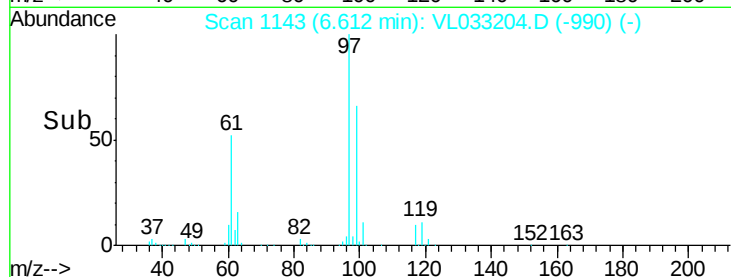
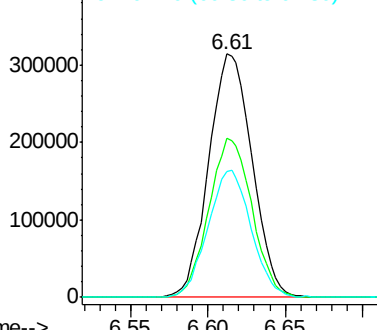
97 100

99 65.0 51.4 77.2

61 52.0 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

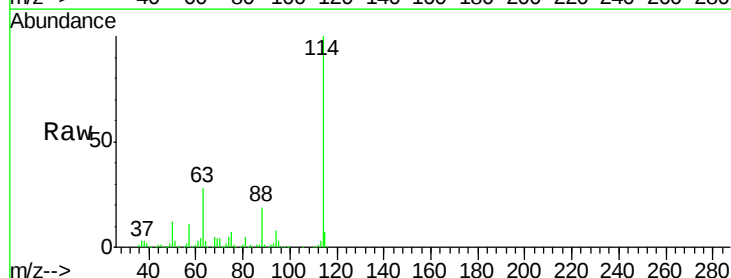
Tgt Ion: 114 Resp: 2178689

Ion Ratio Lower Upper

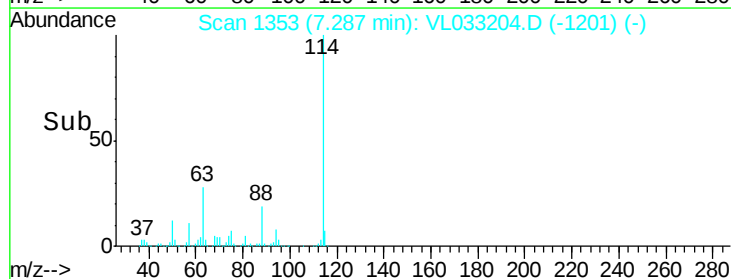
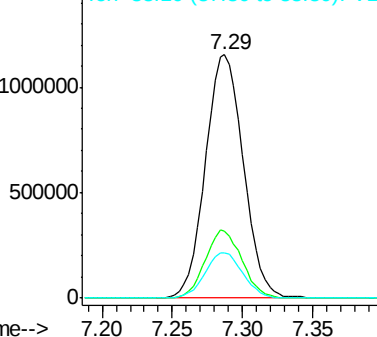
114 100

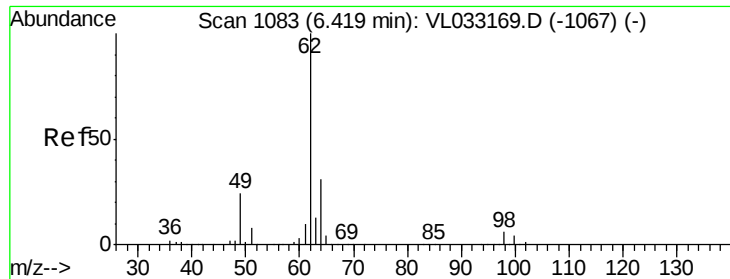
63 27.2 20.8 31.2

88 18.7 14.6 22.0



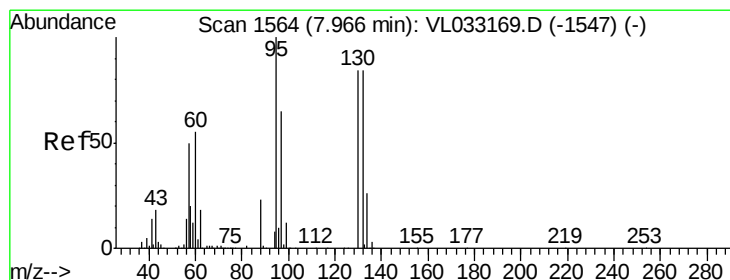
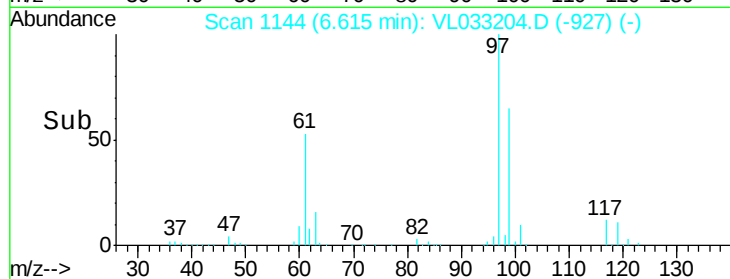
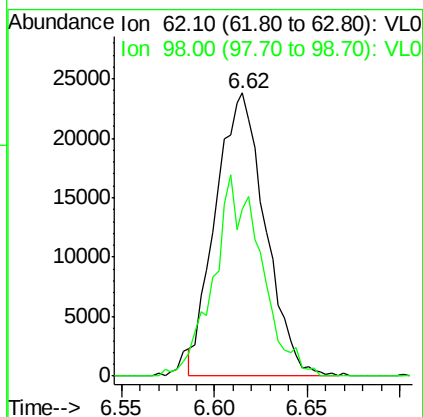
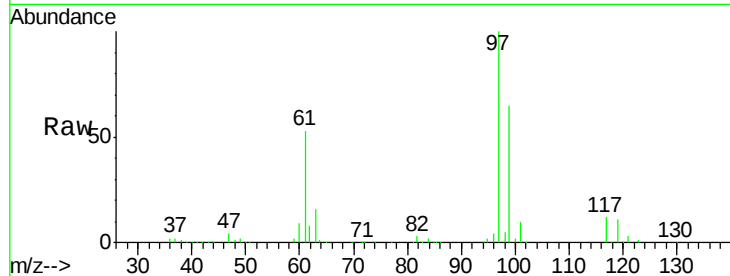
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





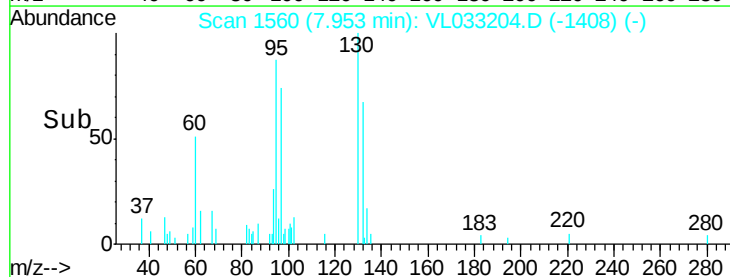
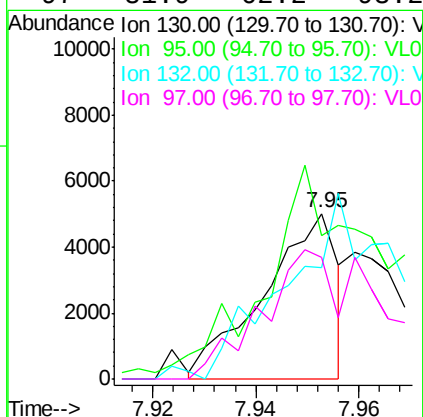
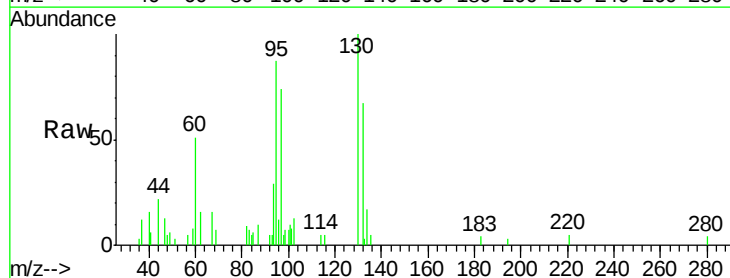
#37
 1,2-Dichloroethane
 Concen: 0.362 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. 0.20 min
 Lab File: VL033204.D
 Acq: 14 Feb 2019 18:57

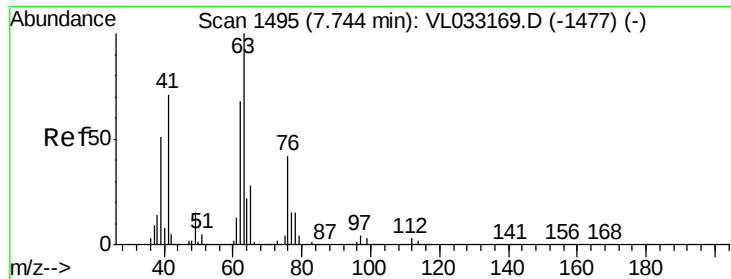
Tgt Ion: 62 Resp: 44290
 Ion Ratio Lower Upper
 62 100
 98 67.7 4.7 7.1#



#38
 Trichloroethene
 Concen: 0.052 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033204.D
 Acq: 14 Feb 2019 18:57

Tgt Ion: 130 Resp: 4915
 Ion Ratio Lower Upper
 130 100
 95 87.1 95.5 143.3#
 132 65.4 80.0 120.0#
 97 81.9 62.2 93.2





#39

1,2-Dichloropropane

Concen: 6.756 ppbv

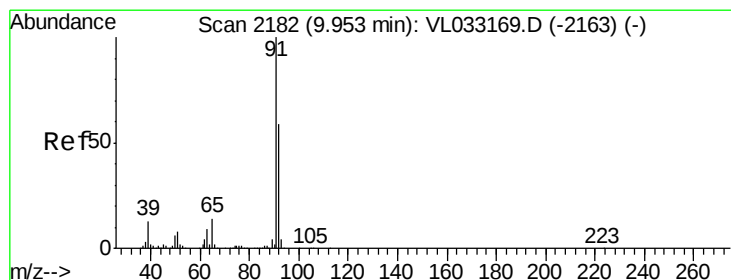
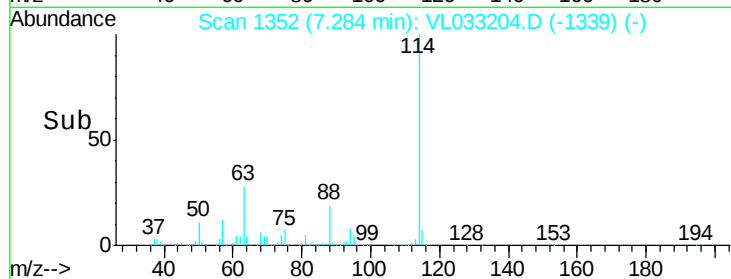
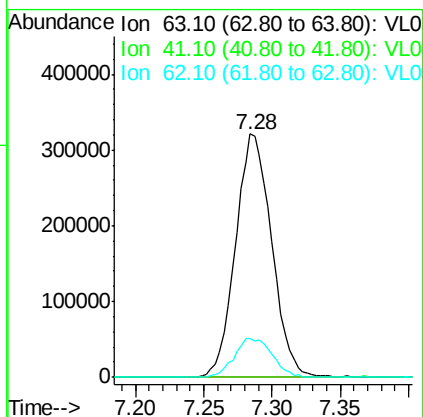
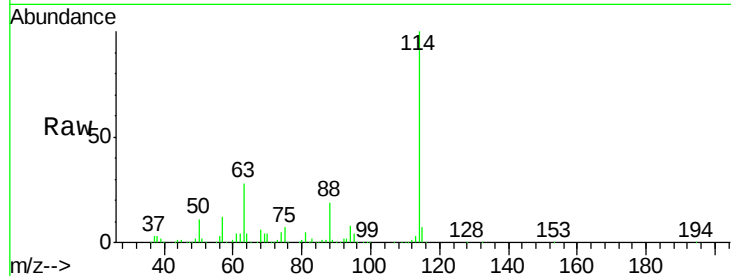
RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Tgt Ion:	63	Resp:	589178
Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	15.9	54.2	81.4#



#53

Toluene

Concen: 0.037 ppbv

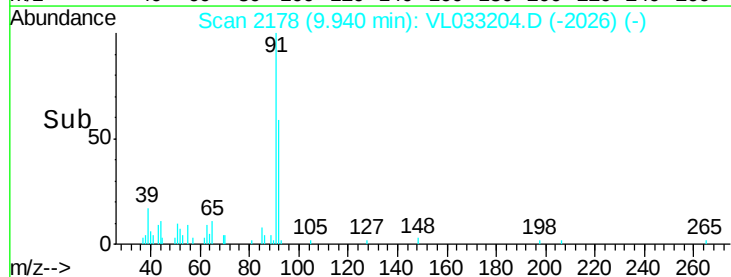
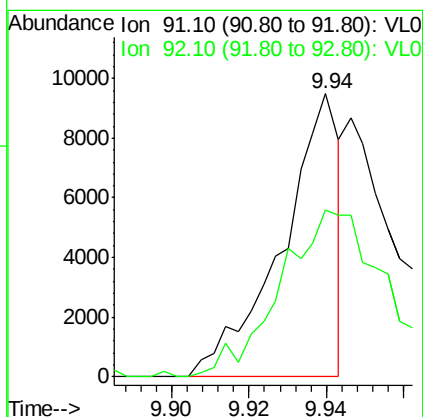
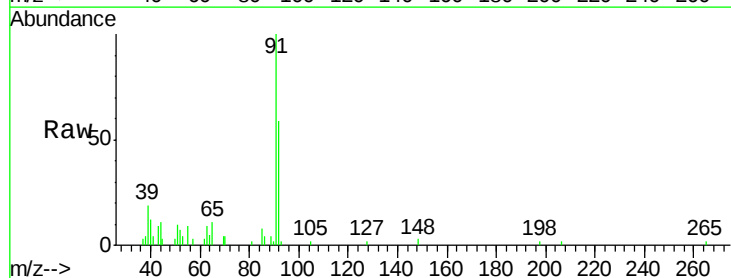
RT: 9.94 min Scan# 2178

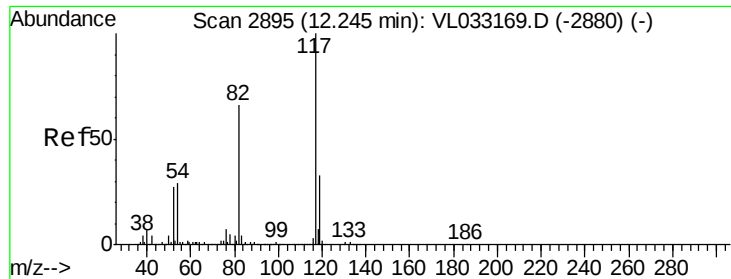
Delta R.T. -0.01 min

Lab File: VL033204.D

Acq: 14 Feb 2019 18:57

Tgt Ion:	91	Resp:	9790
Ion	Ratio	Lower	Upper
91	100		
92	111.0	48.0	72.0#

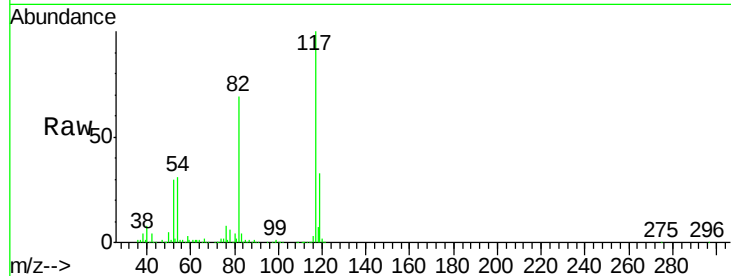




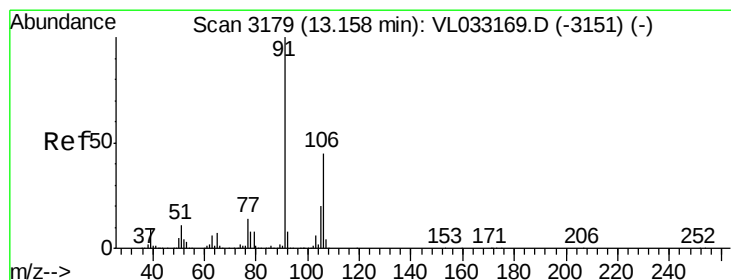
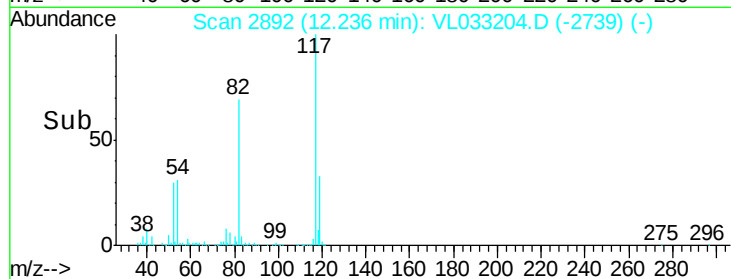
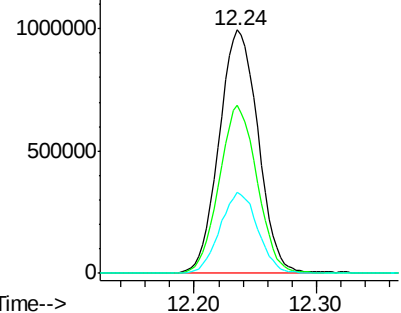
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033204.D
Acq: 14 Feb 2019 18:57

Tgt Ion: 117 Resp: 2201873

Ion	Ratio	Lower	Upper
117	100		
82	67.6	49.5	74.3
119	32.6	24.4	36.6



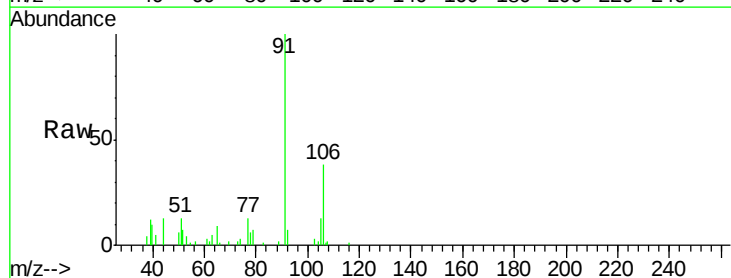
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



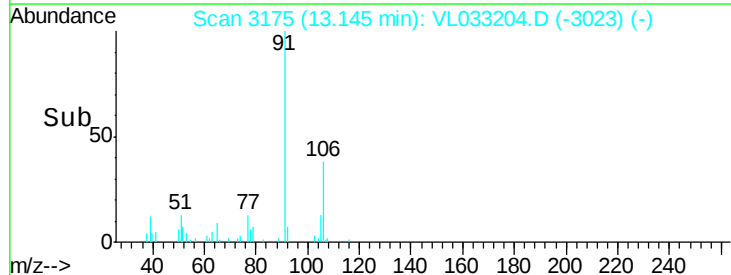
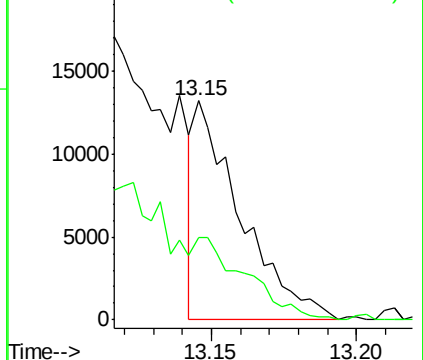
#59
m/p-Xylene
Concen: 0.049 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL033204.D
Acq: 14 Feb 2019 18:57

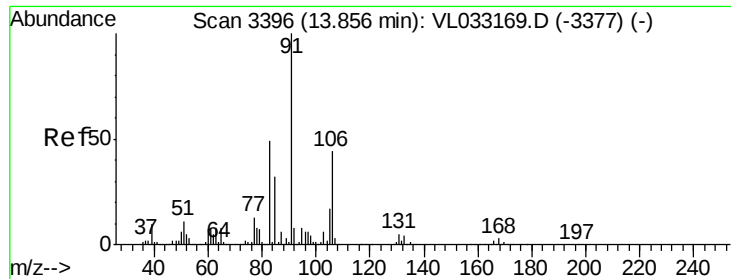
Tgt Ion: 91 Resp: 14549

Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0



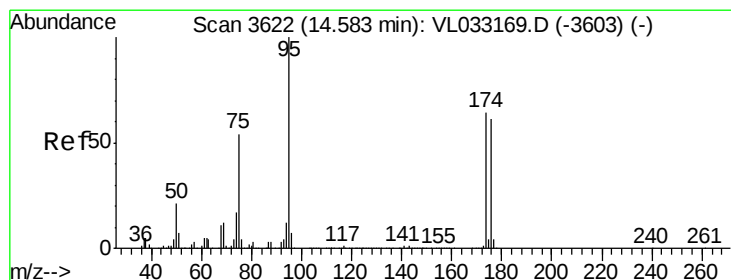
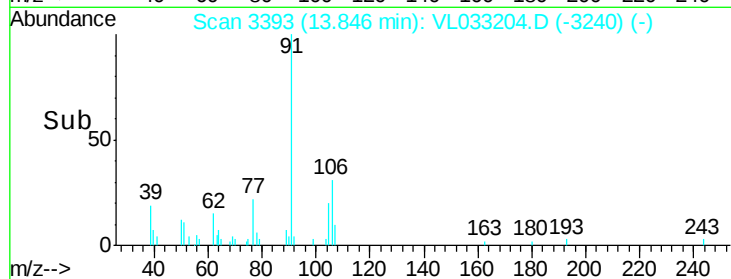
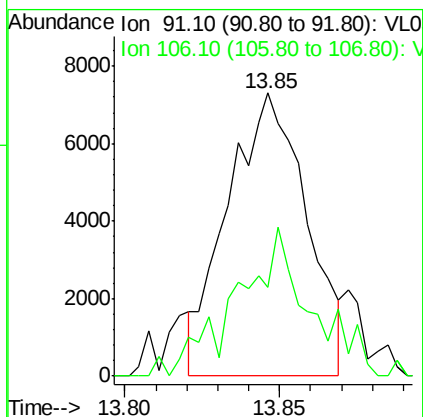
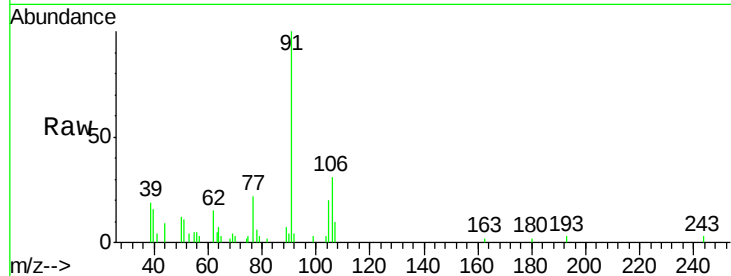
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 106.10 (105.80 to 106.80): V





#60
o-Xylene
Concen: 0.045 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033204.D
Acq: 14 Feb 2019 18:57

Tgt Ion: 91 Resp: 12989
Ion Ratio Lower Upper
91 100
106 49.6 21.8 65.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.516 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033204.D
Acq: 14 Feb 2019 18:57

Tgt Ion: 95 Resp: 1783289
Ion Ratio Lower Upper
95 100
174 63.3 51.2 76.8
175 4.6 3.8 5.6

