

Data File : VL033227.D
Acq On : 15 Feb 2019 11:41
Operator : SY/AP
Sample : K1483-05DL 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 04:14:19 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	811843	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1797814	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1859967	10.00	ppbv	0.00

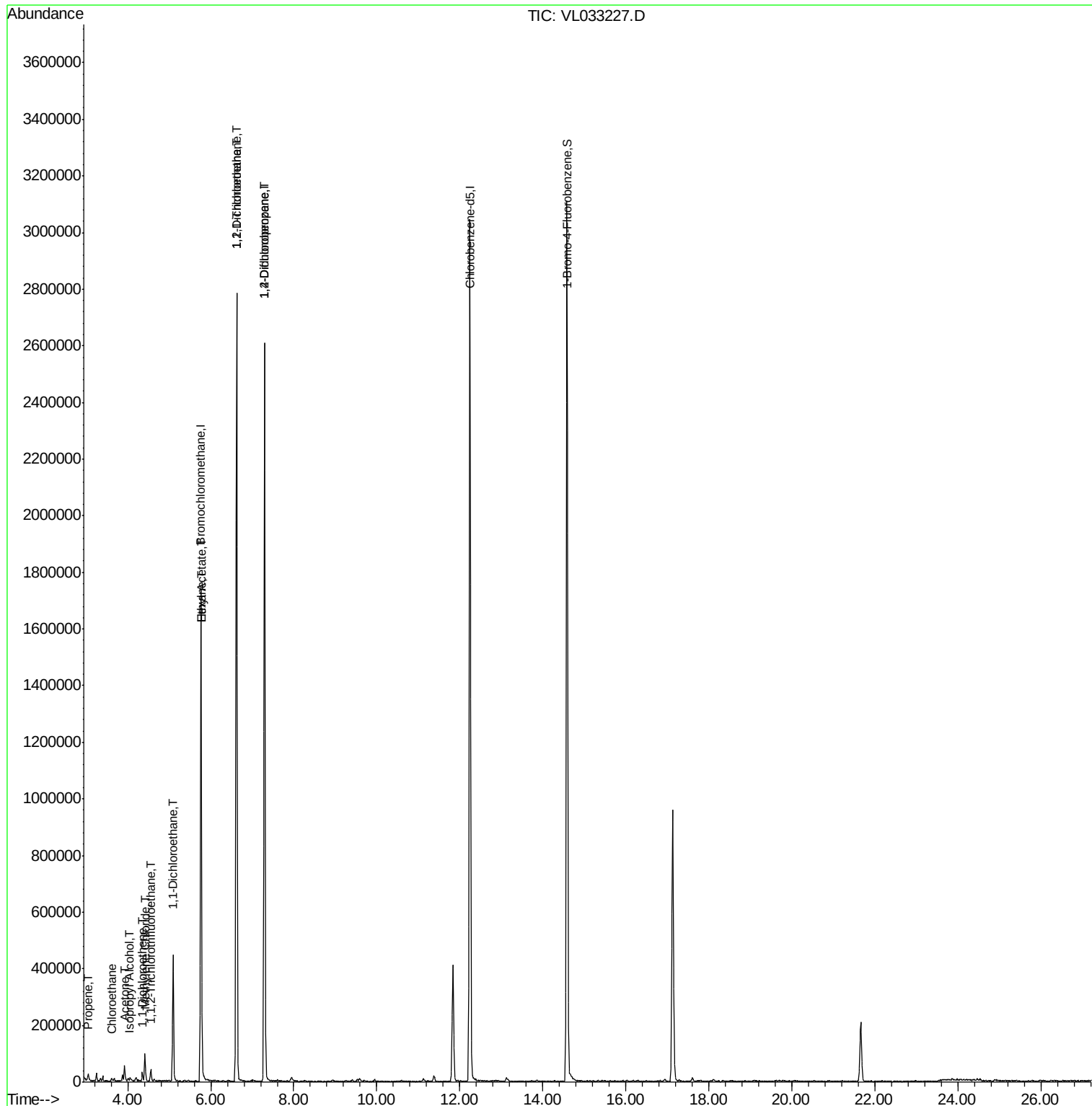
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1473290 10.29 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.90%

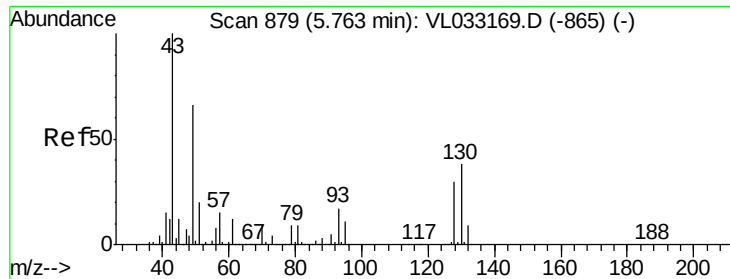
Target Compounds					Qvalue	
7) Chloroethane	3.61	64	5134	0.291	ppbv #	79
9) Propene	3.04	41	1559	0.033	ppbv #	56
12) 1,1,2-Trichlorotrifluoroet	4.55	101	13532	0.155	ppbv	98
15) Acetone	3.92	43	41359	0.452	ppbv	100
18) 1,1-Dichloroethene	4.35	96	7788	0.200	ppbv	95
19) Isopropyl Alcohol	4.05	45	3497	0.056	ppbv #	95
20) Methylene Chloride	4.41	84	30606	0.841	ppbv	96
24) 1,1-Dichloroethane	5.09	63	356428	3.179	ppbv	99
25) Ethyl Acetate	5.78	43	13401	0.065	ppbv #	79
26) Hexane	5.78	57	17249	0.179	ppbv #	42
32) 1,1,1-Trichloroethane	6.62	97	1729575	10.617	ppbv	98
37) 1,2-Dichloroethane	6.62	62	126342	1.251	ppbv #	1
39) 1,2-Dichloropropane	7.29	63	501235	6.966	ppbv #	26

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
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QLast Update : Wed Feb 06 09:13:11 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. 0.00 min

Lab File: VL033227.D

Acq: 15 Feb 2019 11:41

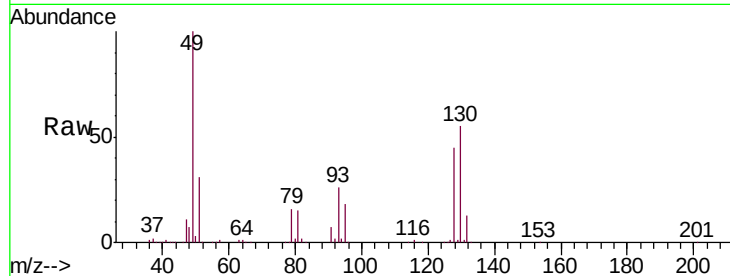
Tgt Ion: 49 Resp: 811843

Ion Ratio Lower Upper

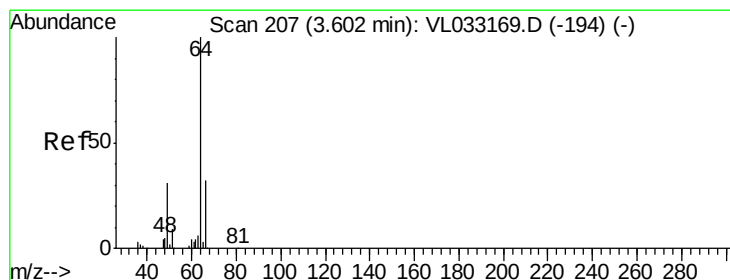
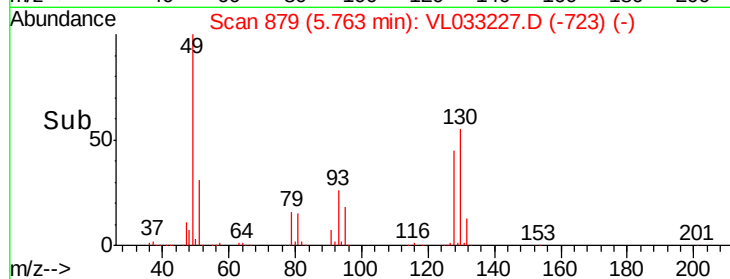
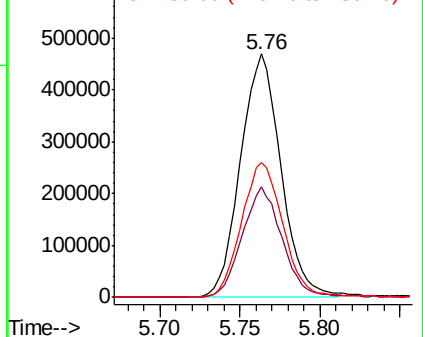
49 100

128 45.4 23.6 71.0

130 57.9 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



#7

Chloroethane

Concen: 0.291 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL033227.D

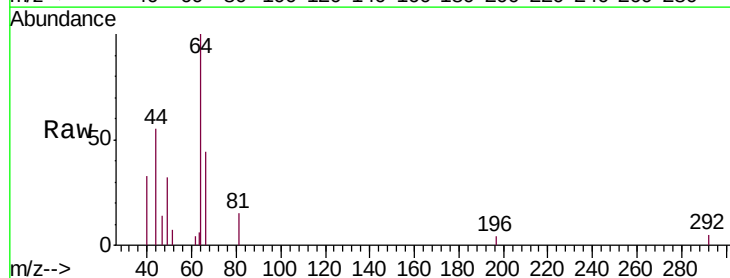
Acq: 15 Feb 2019 11:41

Tgt Ion: 64 Resp: 5134

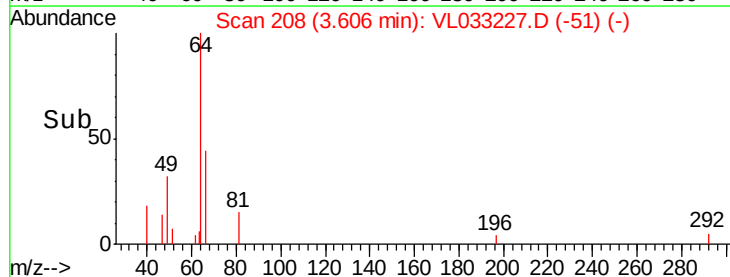
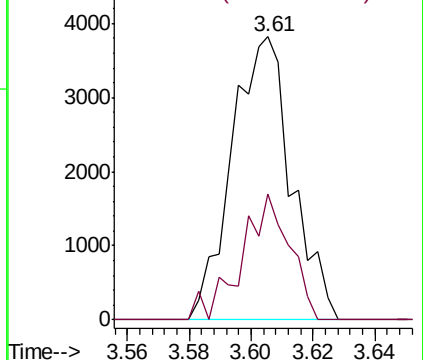
Ion Ratio Lower Upper

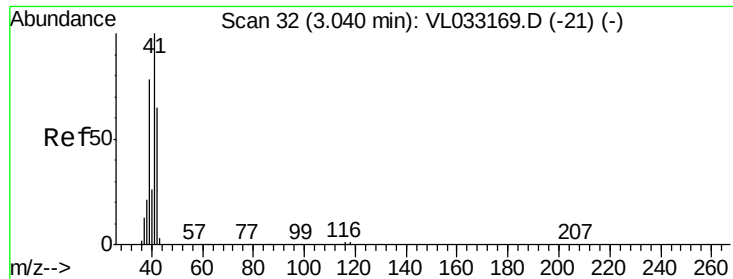
64 100

66 44.3 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: 0.033 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033227.D

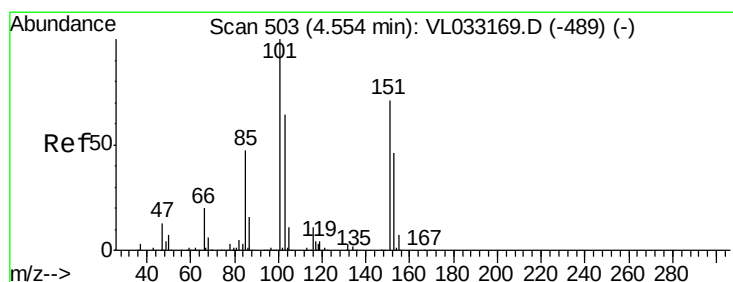
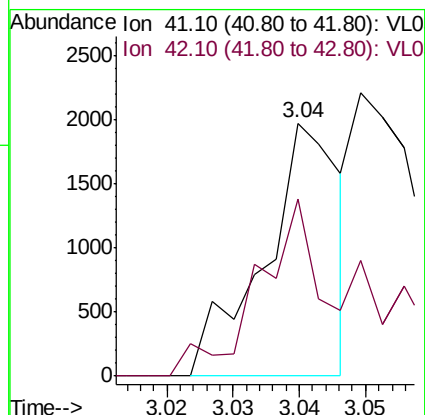
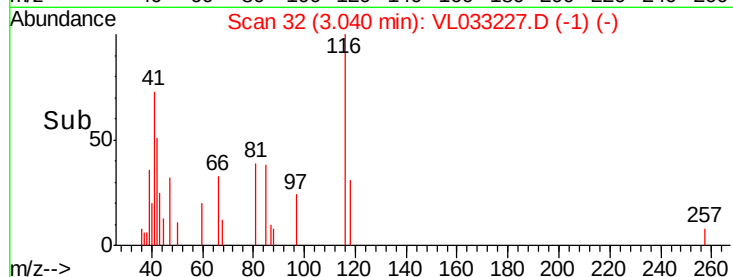
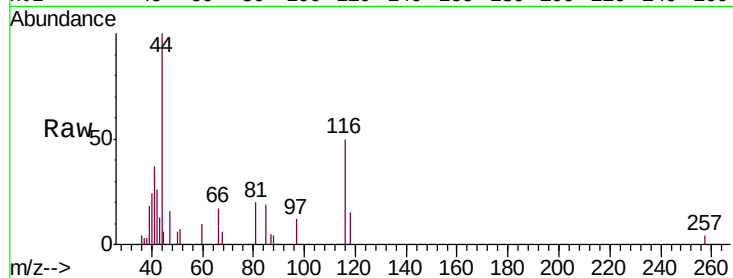
Acq: 15 Feb 2019 11:41

Tgt Ion: 41 Resp: 1559

Ion Ratio Lower Upper

41 100

42 104.9 55.0 82.6#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.155 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033227.D

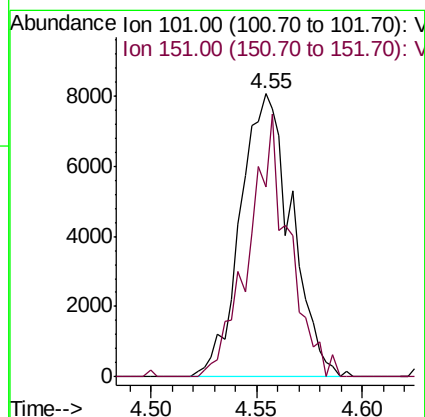
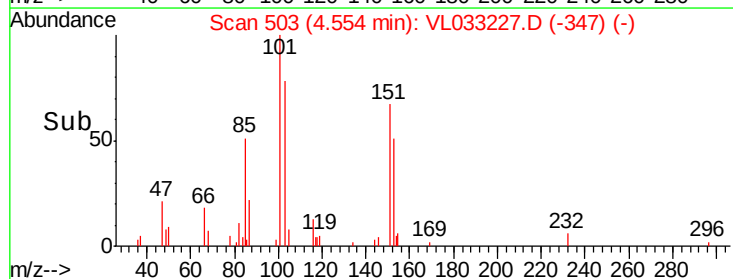
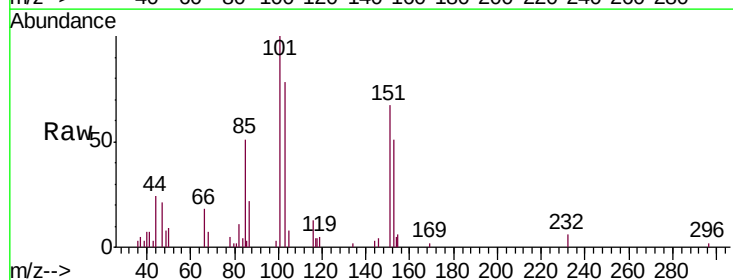
Acq: 15 Feb 2019 11:41

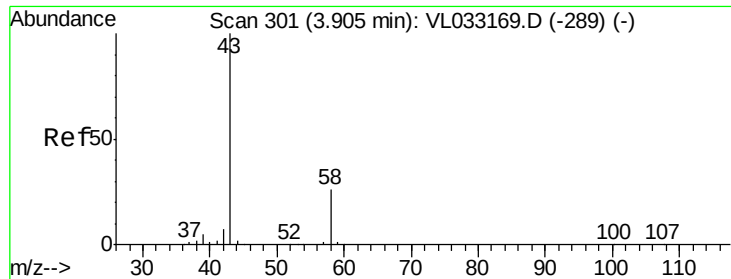
Tgt Ion: 101 Resp: 13532

Ion Ratio Lower Upper

101 100

151 73.0 57.4 86.0





#15

Acetone

Concen: 0.452 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.01 min

Lab File: VL033227.D

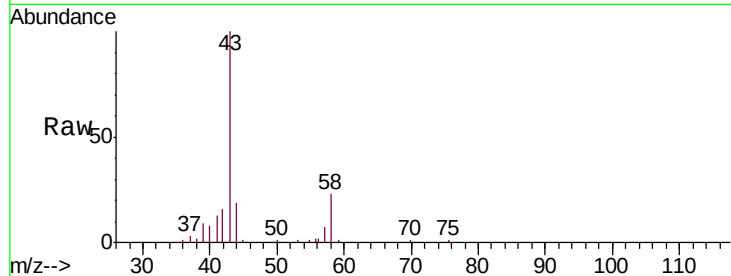
Acq: 15 Feb 2019 11:41

Tgt Ion: 43 Resp: 41359

Ion Ratio Lower Upper

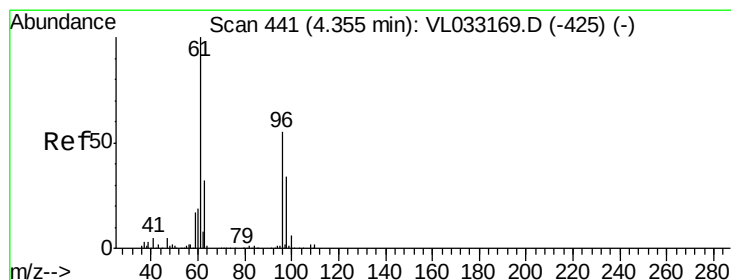
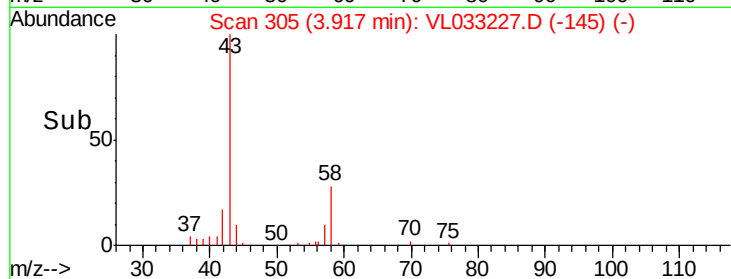
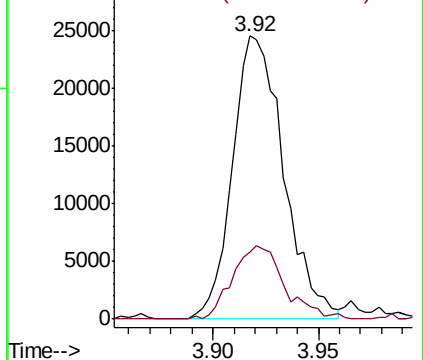
43 100

58 26.3 21.1 31.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.200 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033227.D

Acq: 15 Feb 2019 11:41

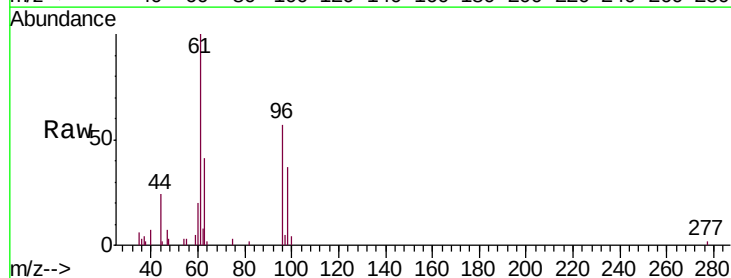
Tgt Ion: 96 Resp: 7788

Ion Ratio Lower Upper

96 100

61 172.8 145.0 217.6

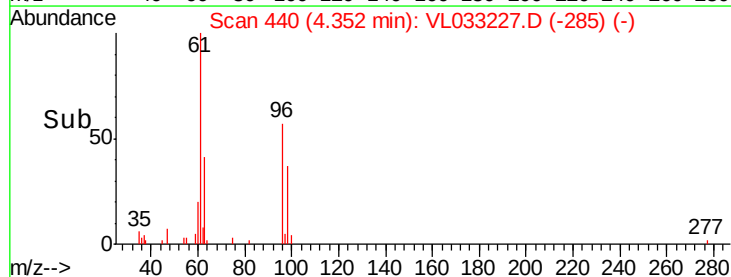
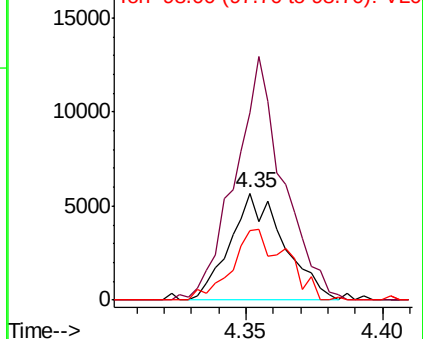
98 65.2 50.0 75.0

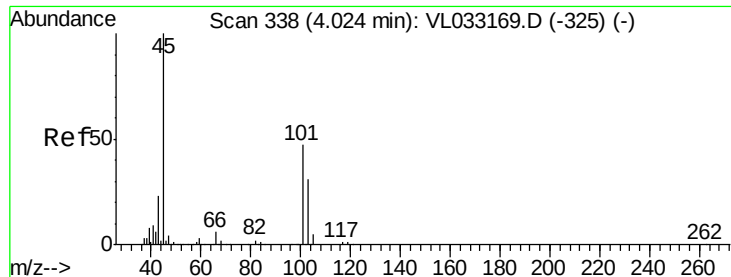


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.056 ppbv

RT: 4.05 min Scan# 345

Delta R.T. 0.02 min

Lab File: VL033227.D

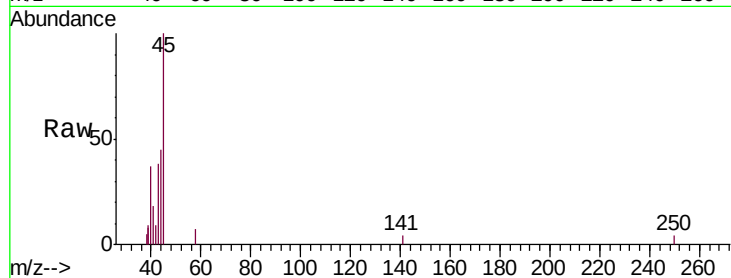
Acq: 15 Feb 2019 11:41

Tgt Ion: 45 Resp: 3497

Ion Ratio Lower Upper

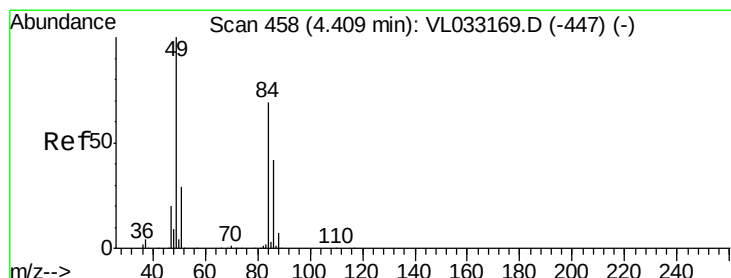
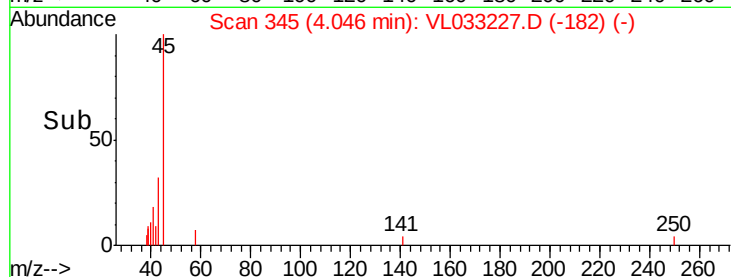
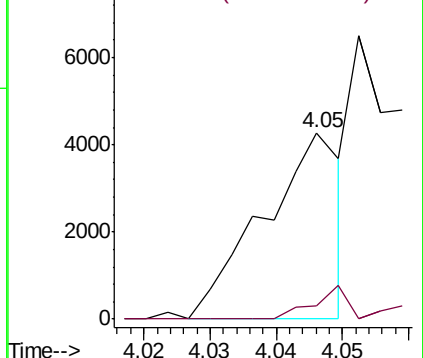
45 100

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: 0.841 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL033227.D

Acq: 15 Feb 2019 11:41

Tgt Ion: 84 Resp: 30606

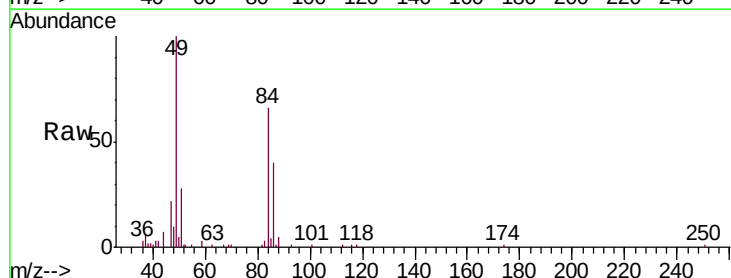
Ion Ratio Lower Upper

84 100

49 151.4 115.8 173.8

51 43.0 33.0 49.6

86 60.1 48.2 72.2

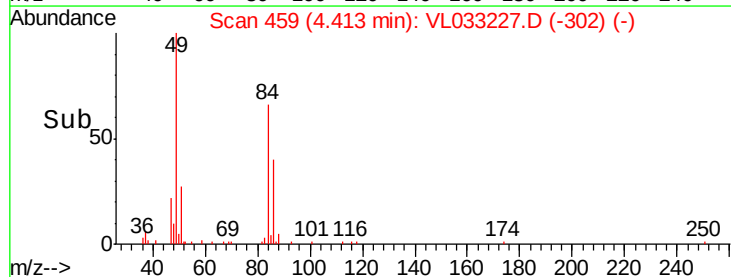
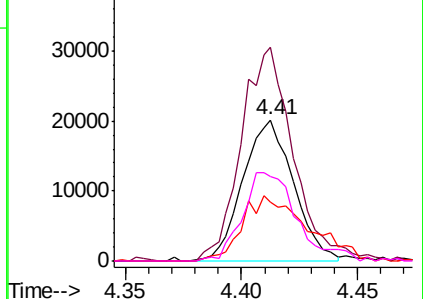


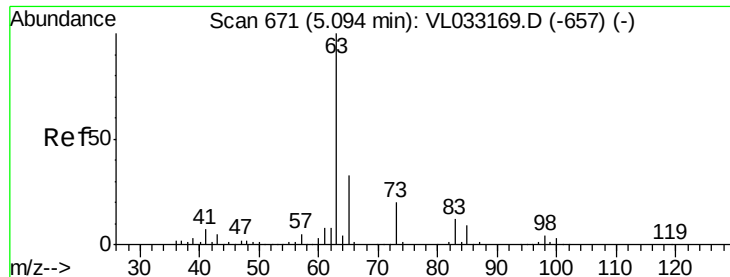
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

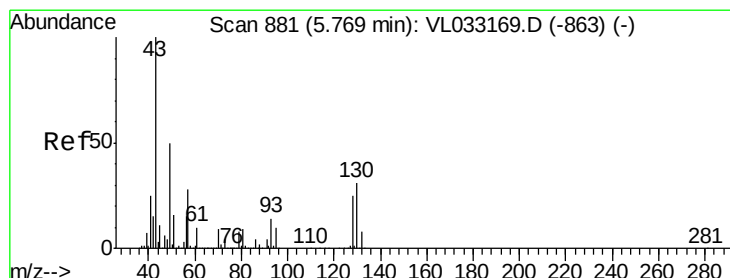
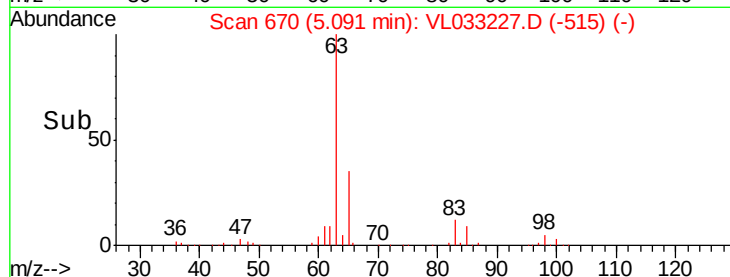
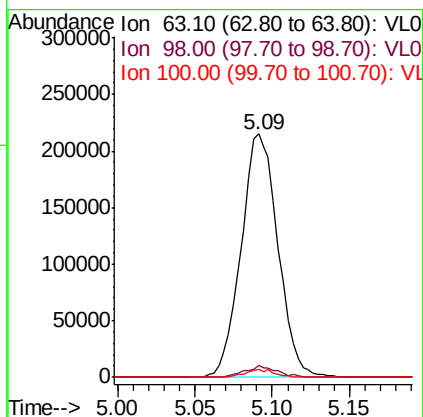
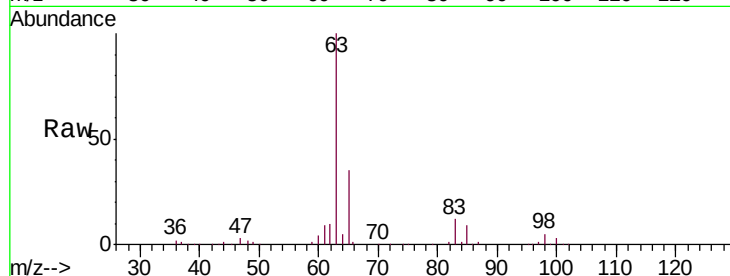
Ion 86.00 (85.70 to 86.70): VL0





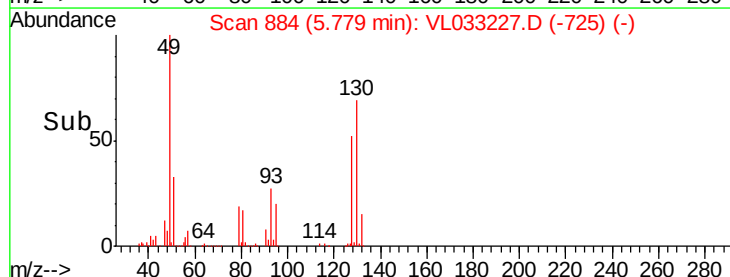
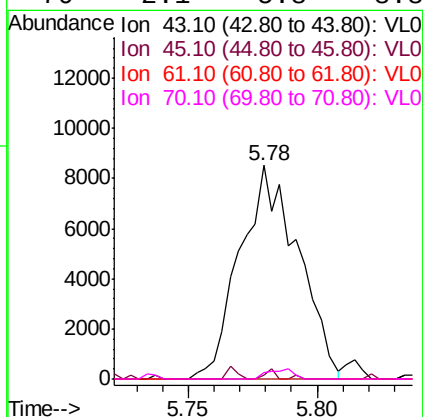
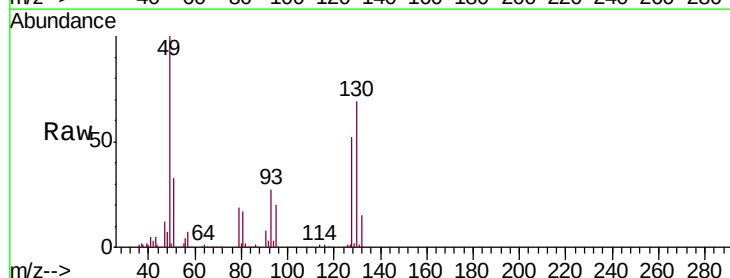
#24
1,1-Dichloroethane
Concen: 3.179 ppbv
RT: 5.09 min Scan# 670
Delta R.T. -0.00 min
Lab File: VL033227.D
Acq: 15 Feb 2019 11:41

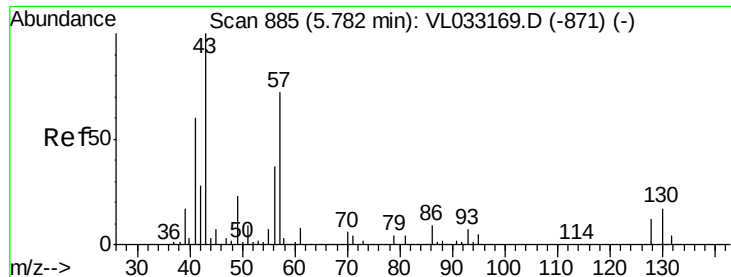
Tgt Ion: 63 Resp: 356428
Ion Ratio Lower Upper
63 100
98 4.7 2.1 6.5
100 3.4 1.4 4.2



#25
Ethyl Acetate
Concen: 0.065 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.01 min
Lab File: VL033227.D
Acq: 15 Feb 2019 11:41

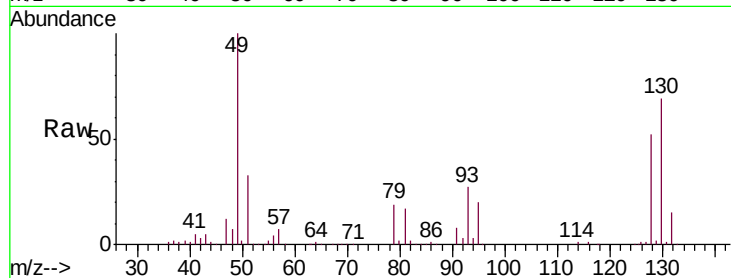
Tgt Ion: 43 Resp: 13401
Ion Ratio Lower Upper
43 100
45 2.1 7.9 11.9#
61 0.0 7.5 11.3#
70 2.1 5.8 8.8#



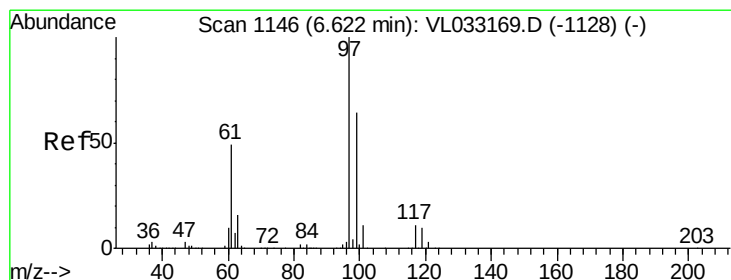
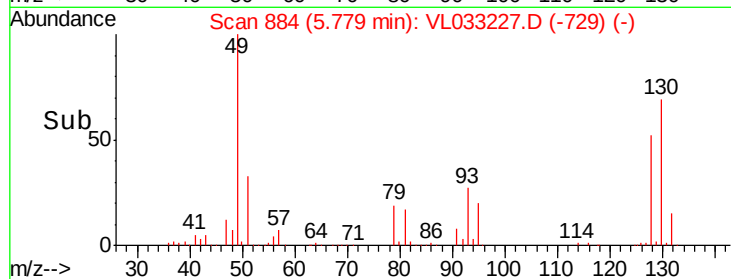
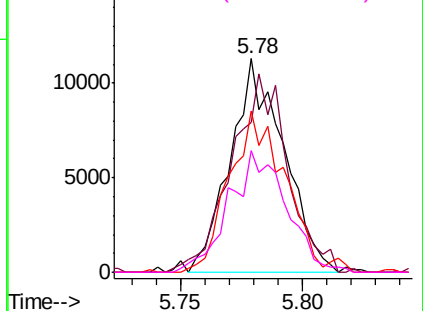


#26
Hexane
Concen: 0.179 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033227.D
Acq: 15 Feb 2019 11:41

Tgt Ion: 57 Resp: 17249
Ion Ratio Lower Upper
57 100
41 97.6 69.4 104.2
43 79.8 176.7 265.1#
56 60.5 41.4 62.0

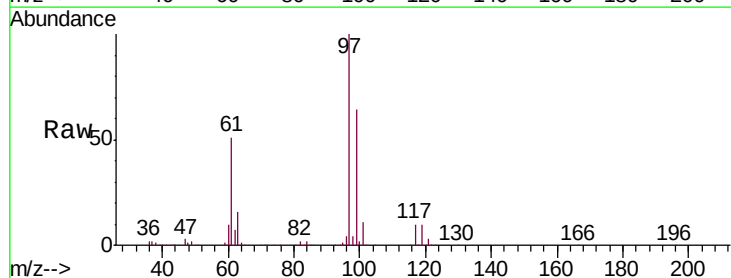


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

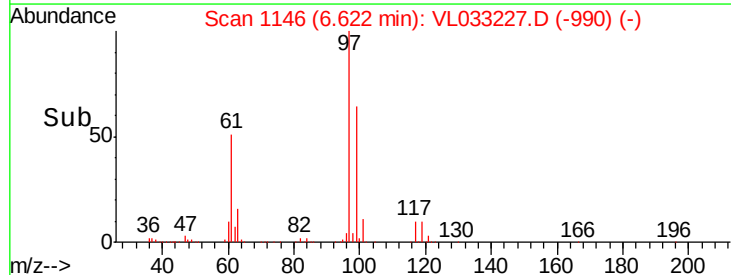
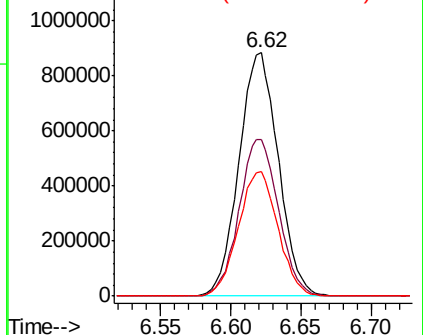


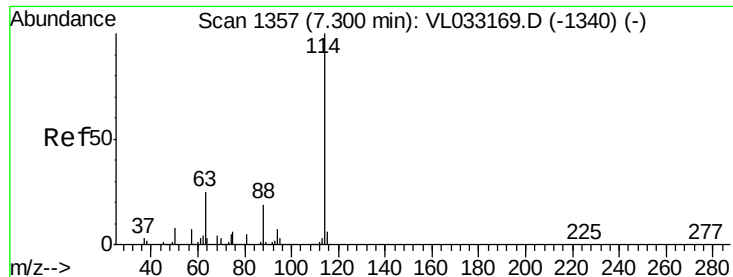
#32
1,1,1-Trichloroethane
Concen: 10.617 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VL033227.D
Acq: 15 Feb 2019 11:41

Tgt Ion: 97 Resp: 1729575
Ion Ratio Lower Upper
97 100
99 64.6 51.4 77.2
61 51.6 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# 1355

Delta R.T. -0.01 min

Lab File: VL033227.D

Acq: 15 Feb 2019 11:41

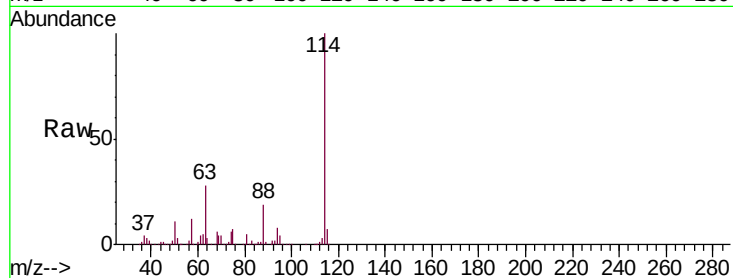
Tgt Ion: 114 Resp: 1797814

Ion Ratio Lower Upper

114 100

63 28.0 20.8 31.2

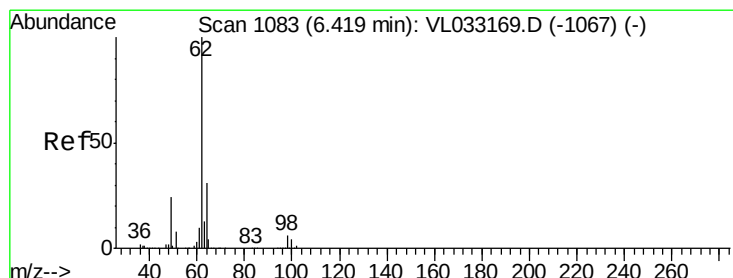
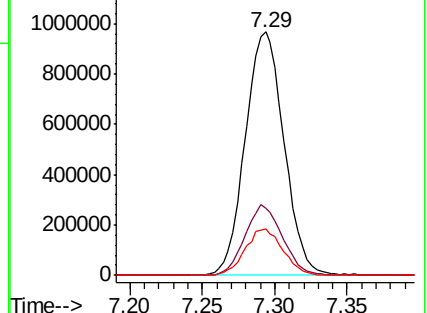
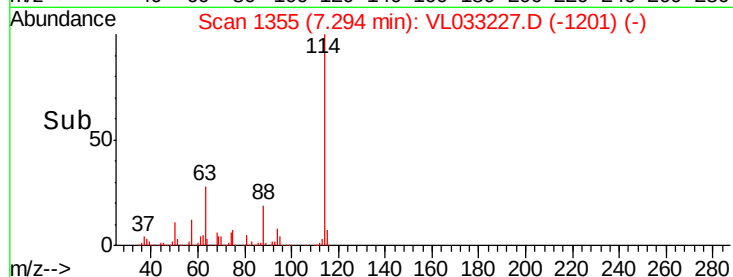
88 18.5 14.6 22.0



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: 1.251 ppbv

RT: 6.62 min Scan# 1144

Delta R.T. 0.20 min

Lab File: VL033227.D

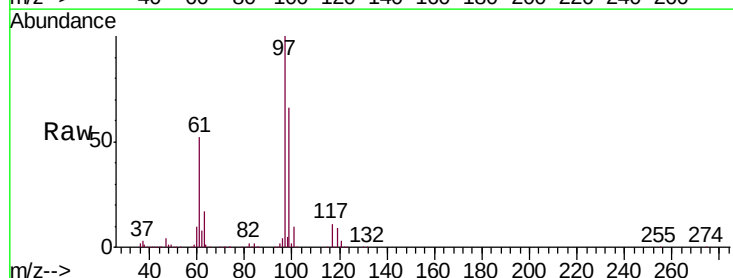
Acq: 15 Feb 2019 11:41

Tgt Ion: 62 Resp: 126342

Ion Ratio Lower Upper

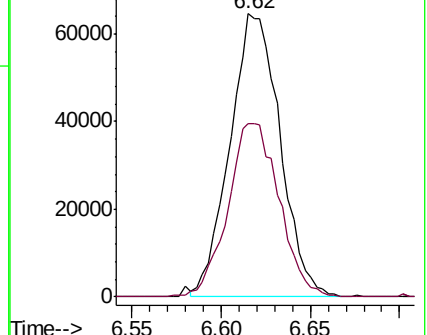
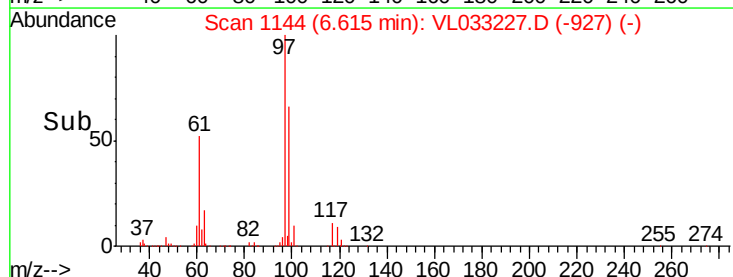
62 100

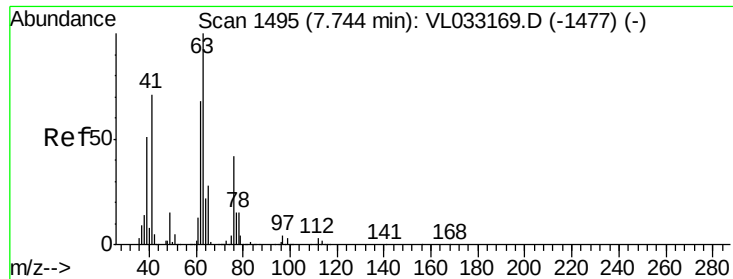
98 62.6 4.7 7.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

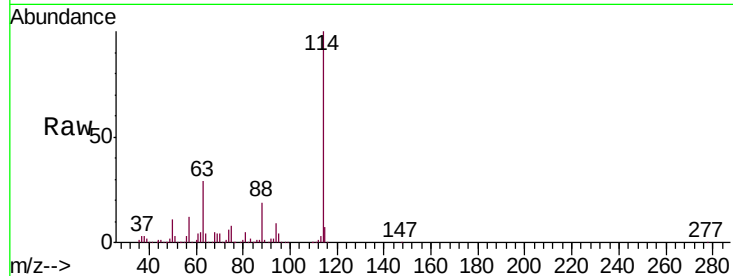
Ion 98.00 (97.70 to 98.70): VL0



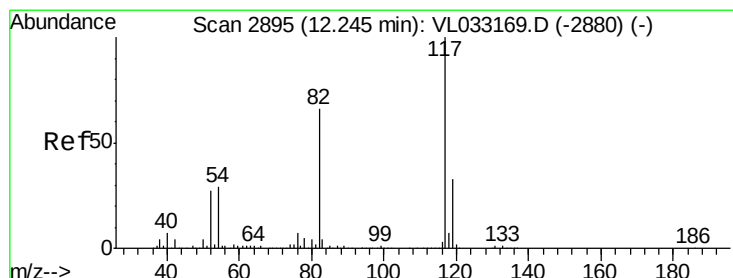
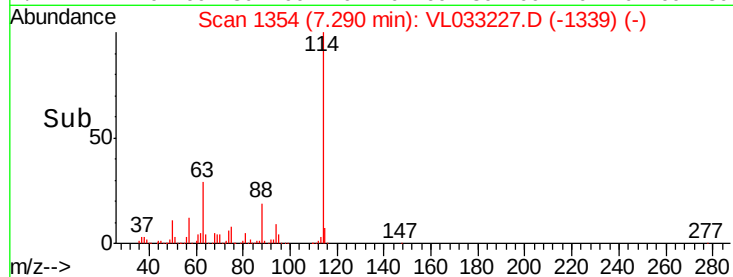
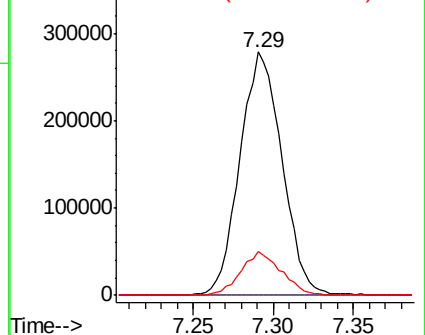


#39
 1,2-Dichloropropane
 Concen: 6.966 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.45 min
 Lab File: VL033227.D
 Acq: 15 Feb 2019 11:41

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	18.0	54.2	81.4#

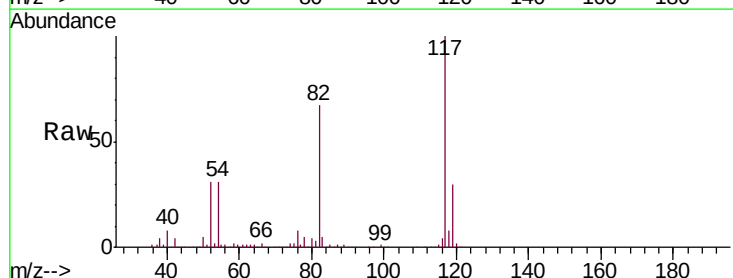


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

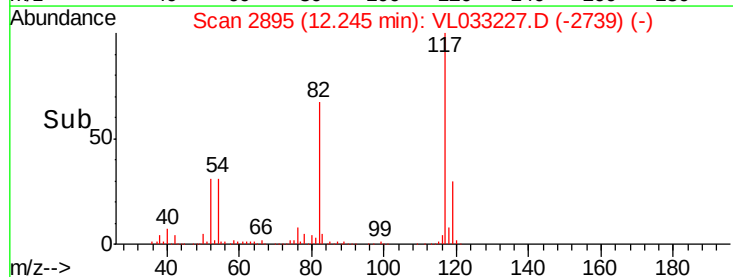
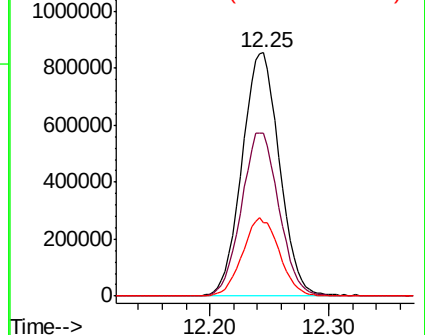


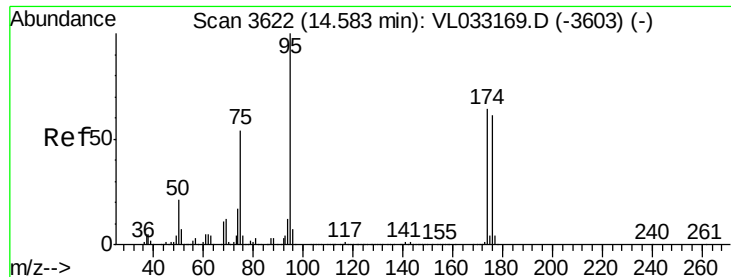
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.25 min Scan# 2895
 Delta R.T. 0.00 min
 Lab File: VL033227.D
 Acq: 15 Feb 2019 11:41

Tgt Ion	Ratio	Lower	Upper
117	100		
82	67.7	49.5	74.3
119	31.6	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





#68

1-Bromo-4-Fluorobenzene

Concen: 10.285 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. 0.00 min

Lab File: VL033227.D

Acq: 15 Feb 2019 11:41

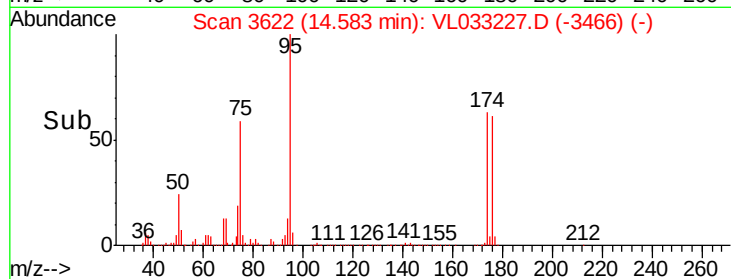
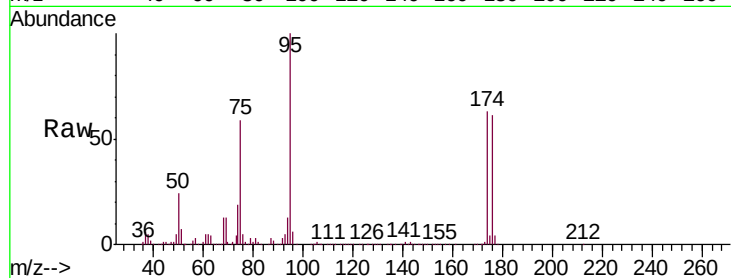
Tgt Ion: 95 Resp: 1473290

Ion Ratio Lower Upper

95 100

174 63.7 51.2 76.8

175 4.5 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

