

Data File : VL033245.D
Acq On : 6 Mar 2019 5:11
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 06 05:44:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 02:40:20 2019
QLast Update : Wed Mar 06 02:40:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1008060	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2258146	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2216066	10.00	ppbv	0.00

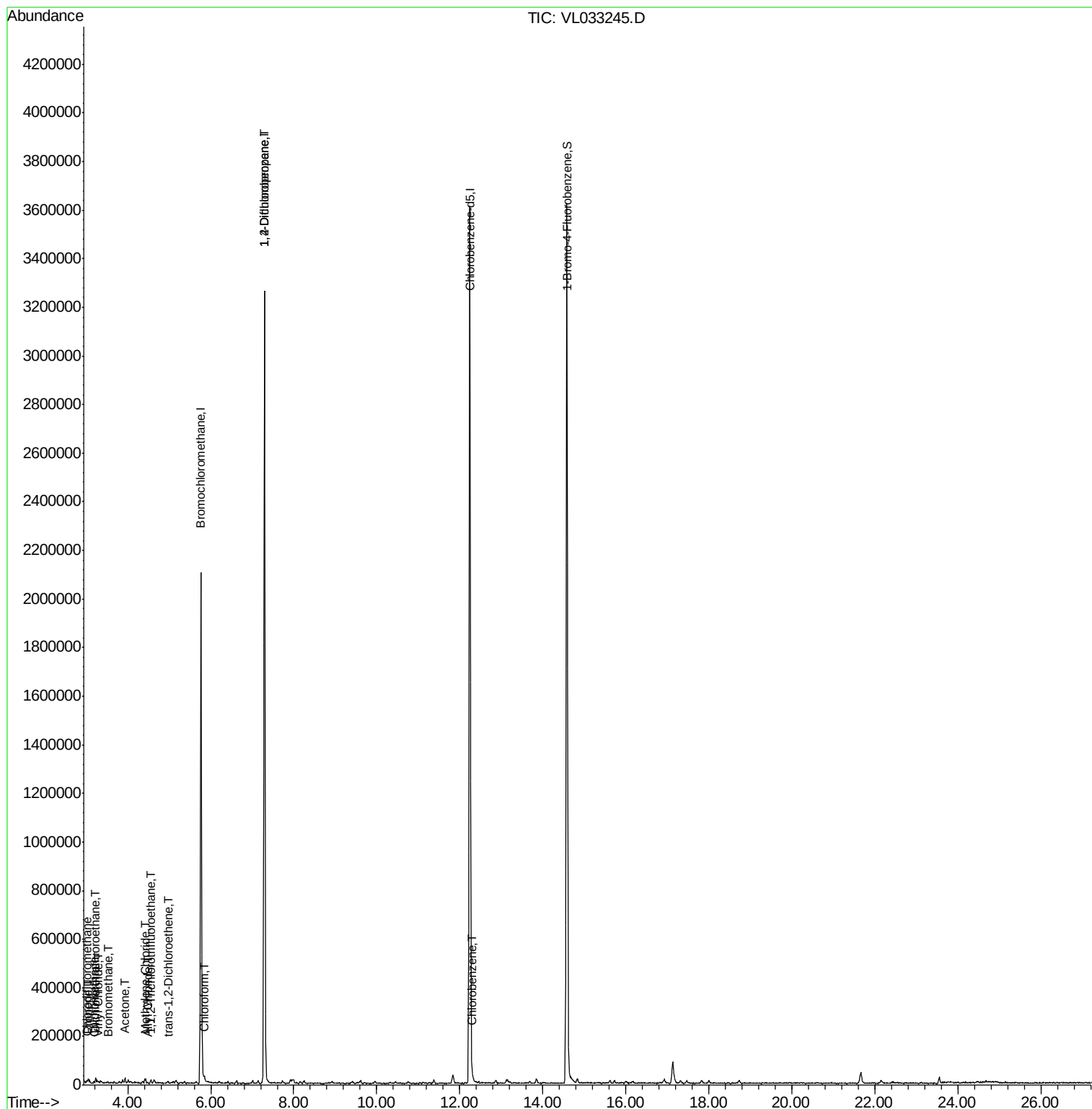
System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.58 95 1727333 10.13 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.30%

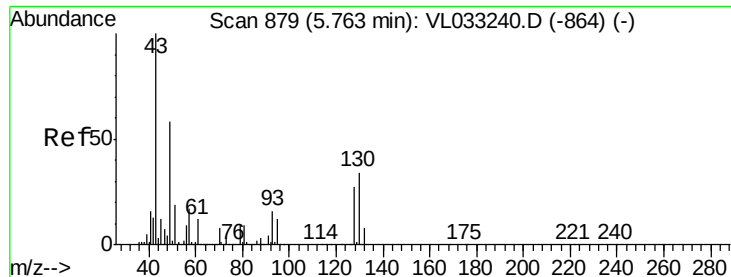
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.02	51	5243	0.044	ppbv	95
4) Chloromethane	3.18	50	2925	0.047	ppbv	93
5) Vinyl Chloride	3.30	62	2476	0.038	ppbv #	76
6) Bromomethane	3.52	94	1121	0.031	ppbv #	78
8) Dichlorotetrafluoroethane	3.23	85	7238	0.049	ppbv	96
9) Propene	3.04	41	2070	0.036	ppbv #	50
12) 1,1,2-Trichlorotrifluoroet	4.55	101	3836	0.036	ppbv	91
15) Acetone	3.93	43	21927	0.195	ppbv	98
20) Methylene Chloride	4.41	84	5484	0.123	ppbv #	77
21) Allyl Chloride	4.49	41	3098	0.042	ppbv	87
22) trans-1,2-Dichloroethene	4.97	96	1978	0.042	ppbv #	58
29) Chloroform	5.85	83	6772	0.037	ppbv	90
39) 1,2-Dichloropropane	7.29	63	616052	6.799	ppbv #	24
57) Chlorobenzene	12.30	112	6869	0.036	ppbv #	73

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

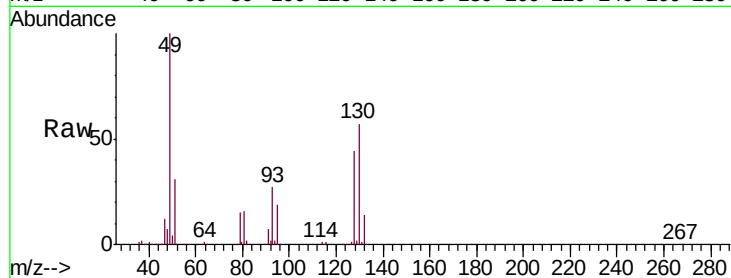
Tgt Ion: 49 Resp: 1008060

Ion Ratio Lower Upper

49 100

128 45.6 22.9 68.8

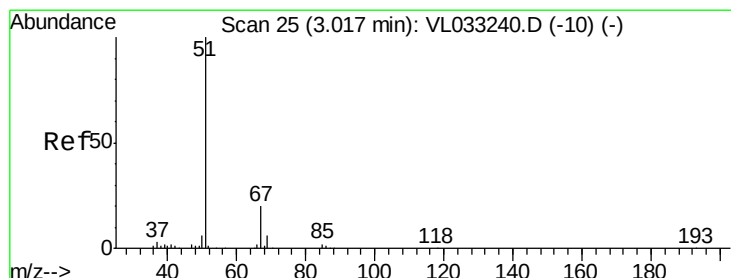
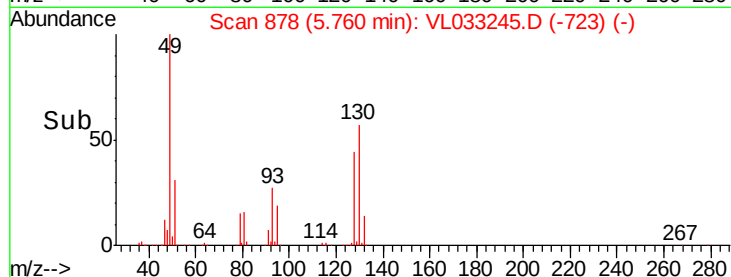
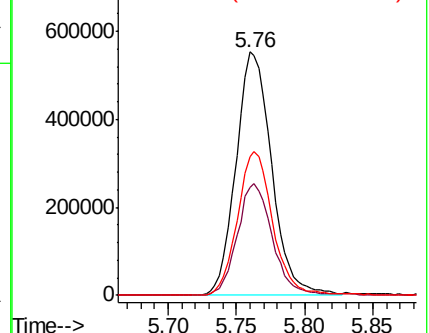
130 58.3 29.3 88.0



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



#3

Chlorodifluoromethane

Concen: 0.044 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033245.D

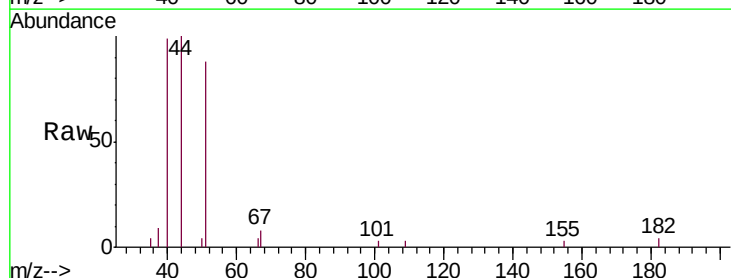
Acq: 6 Mar 2019 5:11

Tgt Ion: 51 Resp: 5243

Ion Ratio Lower Upper

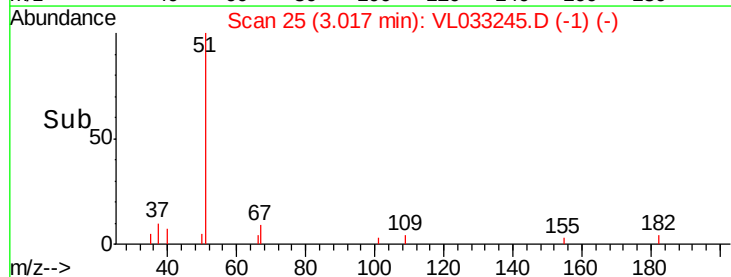
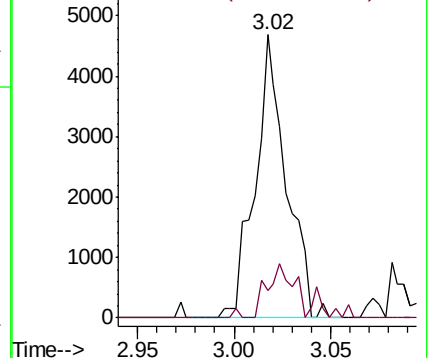
51 100

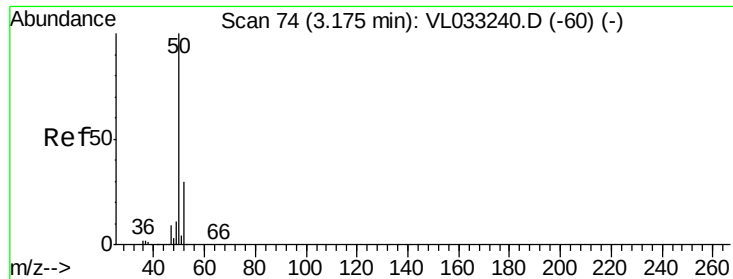
67 21.1 15.0 22.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL033245.D

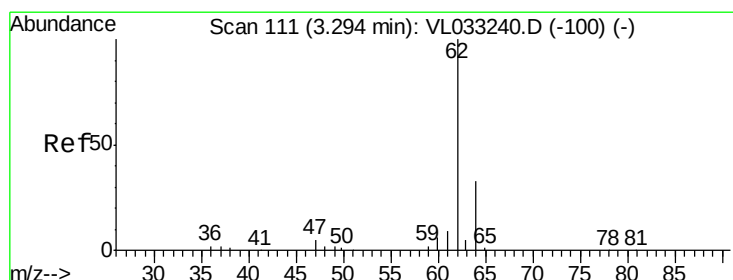
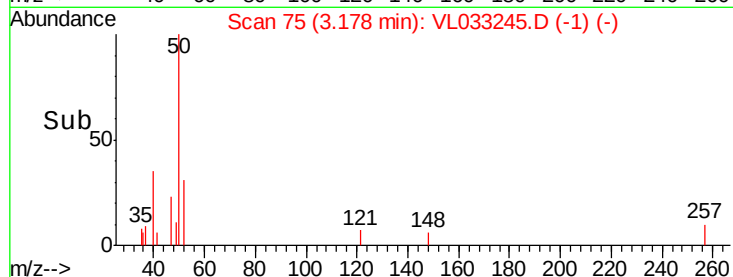
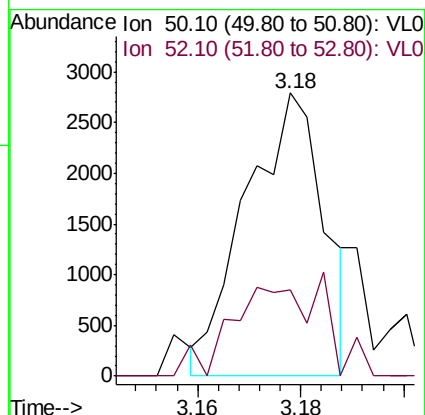
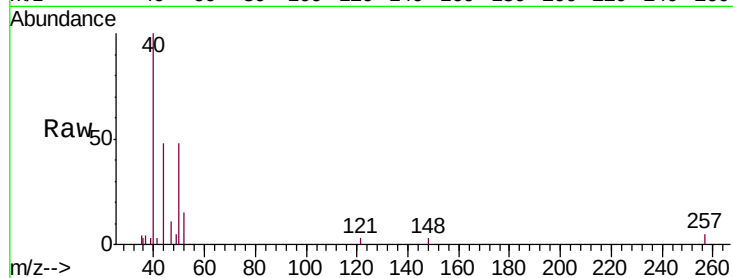
Acq: 6 Mar 2019 5:11

Tgt Ion: 50 Resp: 2925

Ion Ratio Lower Upper

50 100

52 34.1 24.3 36.5



#5

Vinyl Chloride

Concen: 0.038 ppbv

RT: 3.30 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL033245.D

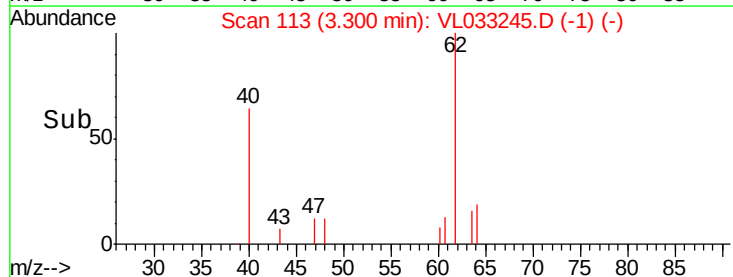
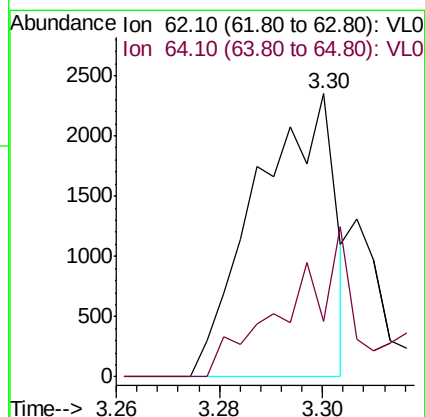
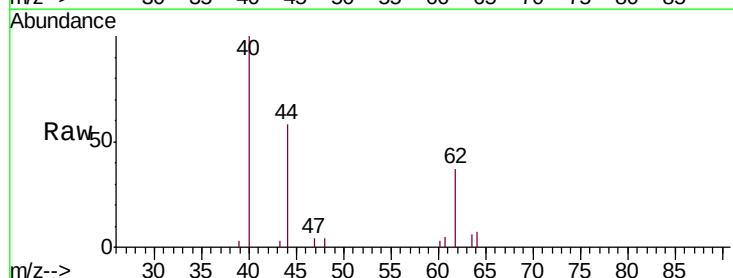
Acq: 6 Mar 2019 5:11

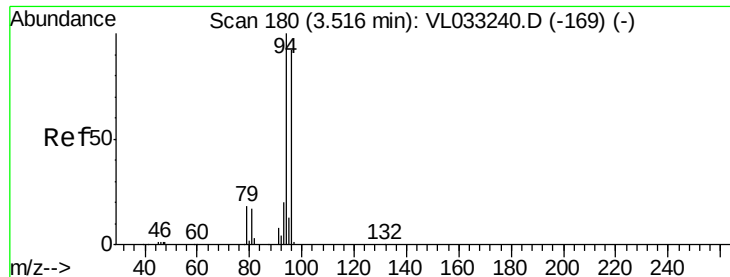
Tgt Ion: 62 Resp: 2476

Ion Ratio Lower Upper

62 100

64 19.5 26.2 39.2#





#6

Bromomethane

Concen: 0.031 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.01 min

Lab File: VL033245.D

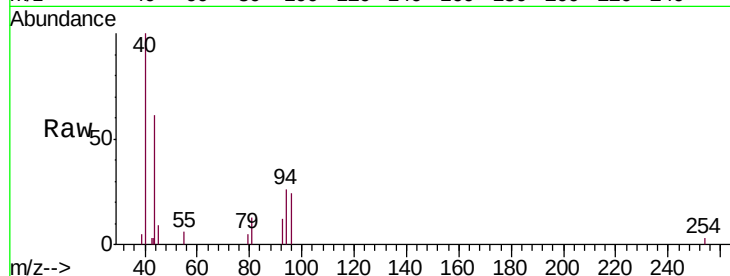
Acq: 6 Mar 2019 5:11

Tgt Ion: 94 Resp: 1121

Ion Ratio Lower Upper

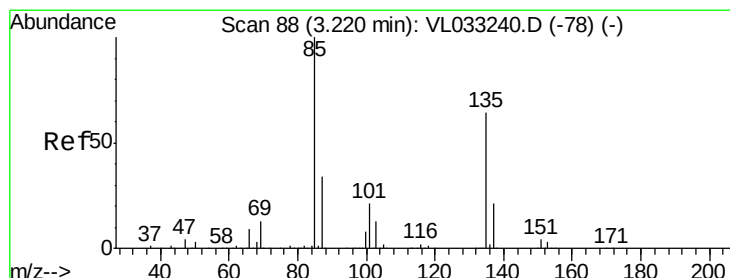
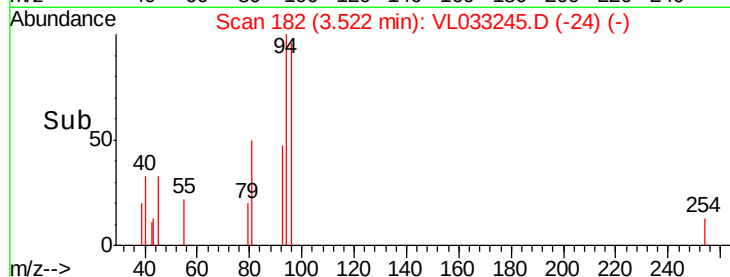
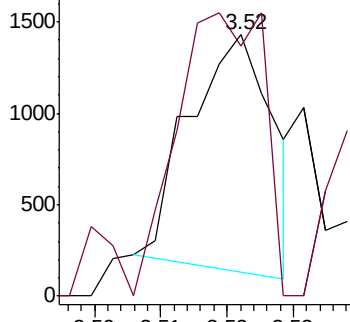
94 100

96 113.4 74.0 111.0#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.049 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL033245.D

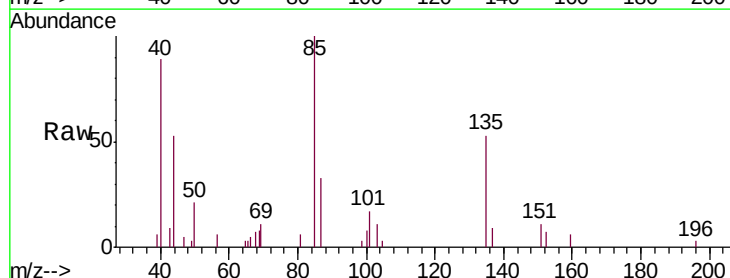
Acq: 6 Mar 2019 5:11

Tgt Ion: 85 Resp: 7238

Ion Ratio Lower Upper

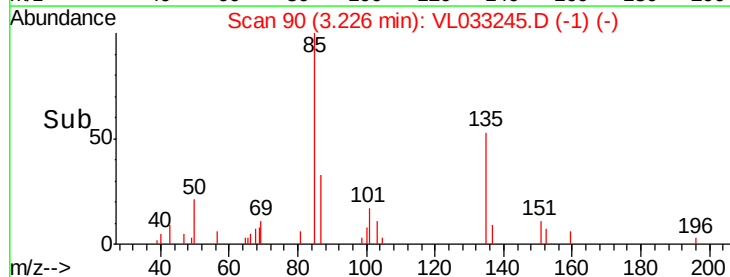
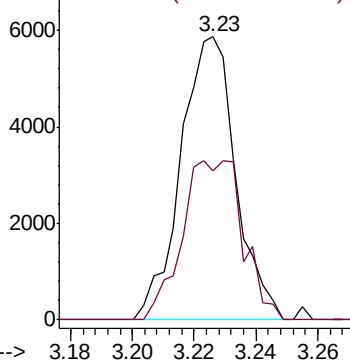
85 100

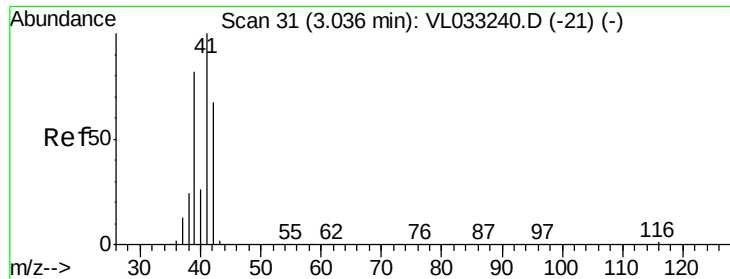
135 62.3 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.036 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033245.D

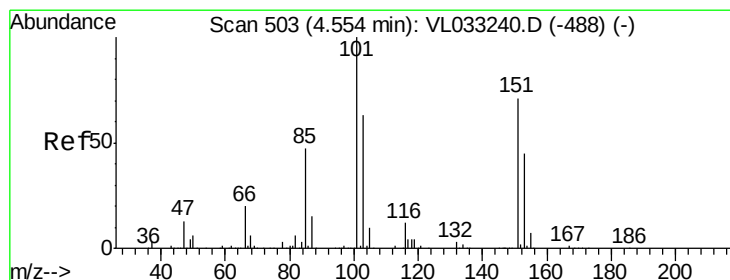
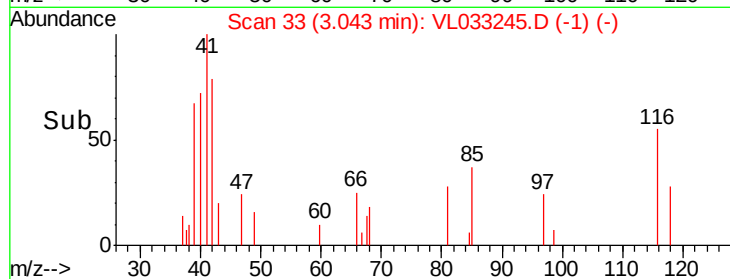
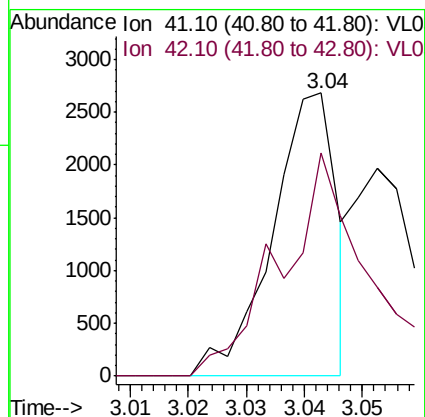
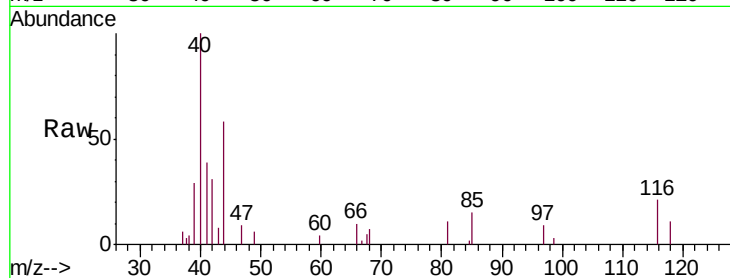
Acq: 6 Mar 2019 5:11

Tgt Ion: 41 Resp: 2070

Ion Ratio Lower Upper

41 100

42 109.8 55.3 82.9#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033245.D

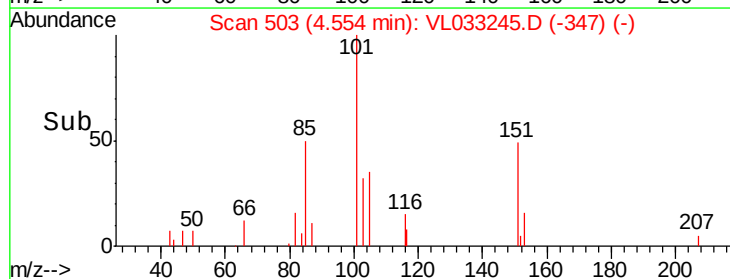
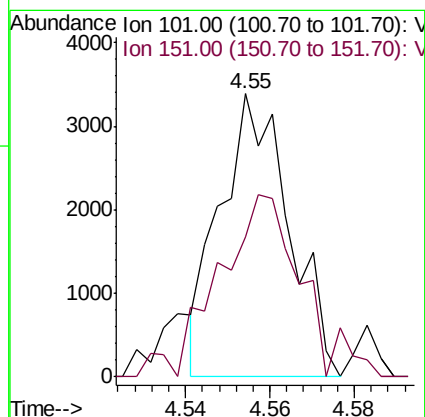
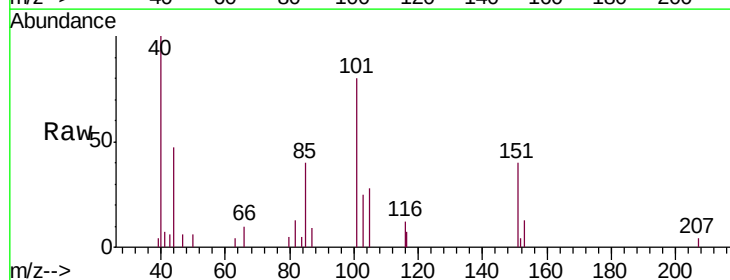
Acq: 6 Mar 2019 5:11

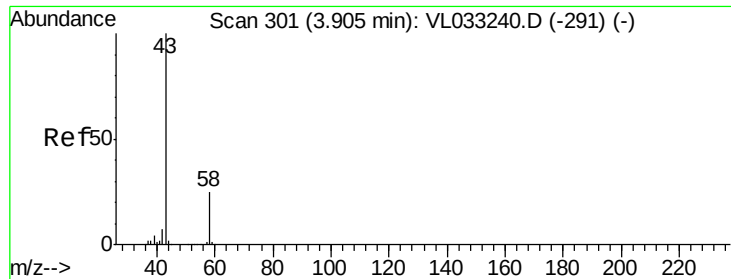
Tgt Ion: 101 Resp: 3836

Ion Ratio Lower Upper

101 100

151 78.7 57.0 85.6





#15

Acetone

Concen: 0.195 ppbv

RT: 3.93 min Scan# 310

Delta R.T. 0.03 min

Lab File: VL033245.D

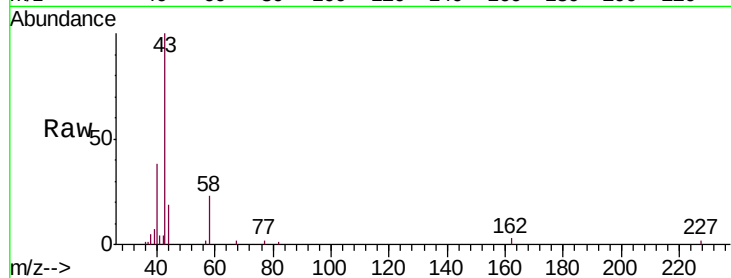
Acq: 6 Mar 2019 5:11

Tgt Ion: 43 Resp: 21927

Ion Ratio Lower Upper

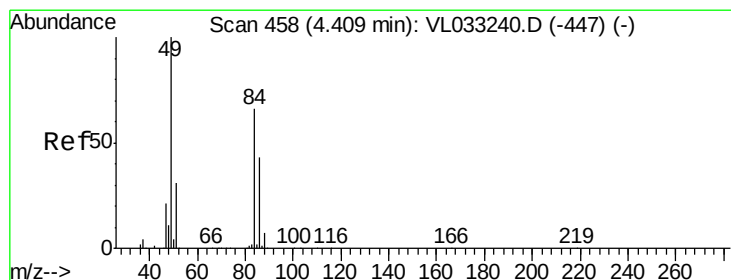
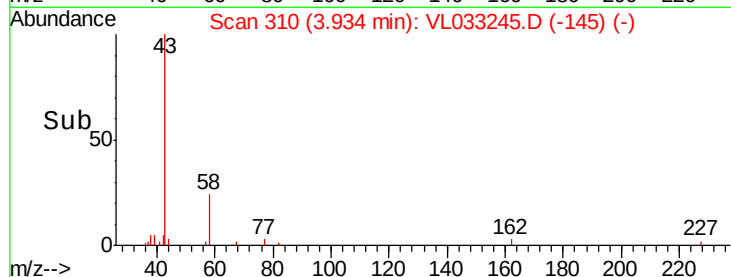
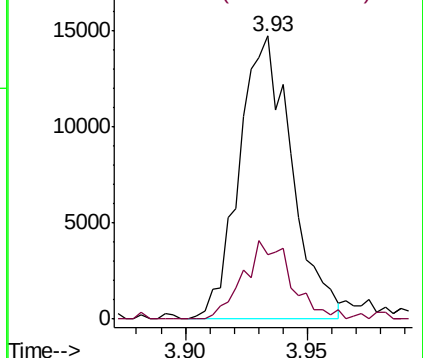
43 100

58 26.2 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.123 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

Tgt Ion: 84 Resp: 5484

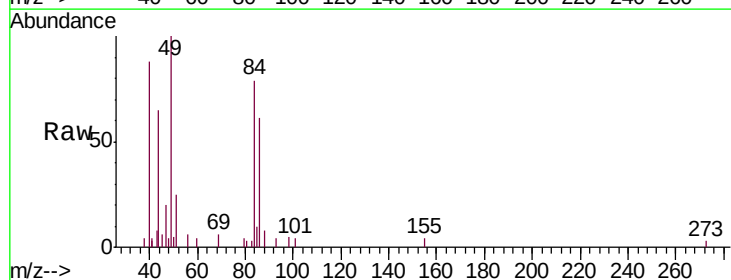
Ion Ratio Lower Upper

84 100

49 112.4 120.4 180.6#

51 28.1 36.7 55.1#

86 68.9 51.8 77.8

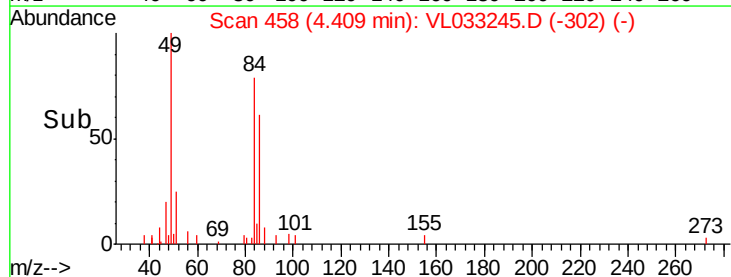
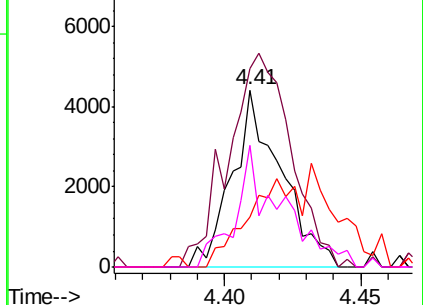


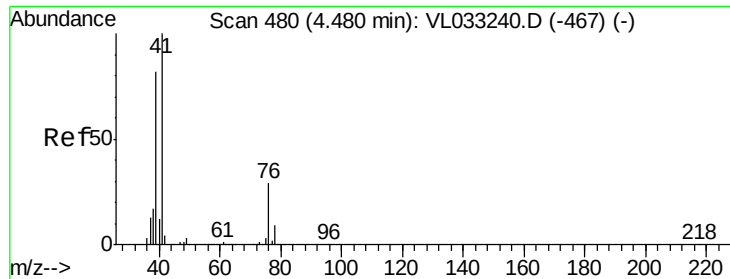
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

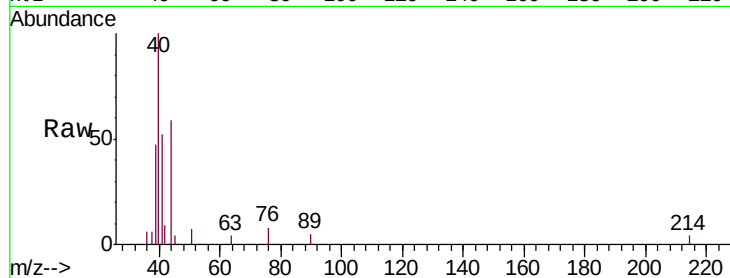
Ion 86.00 (85.70 to 86.70): VL0



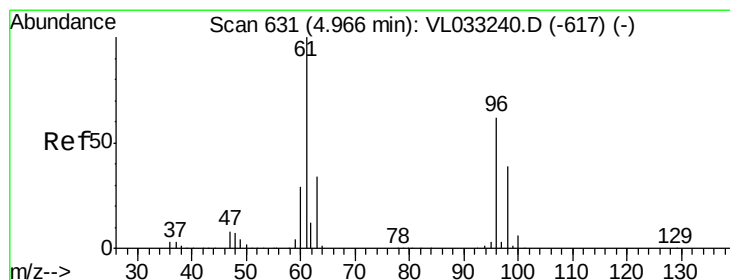
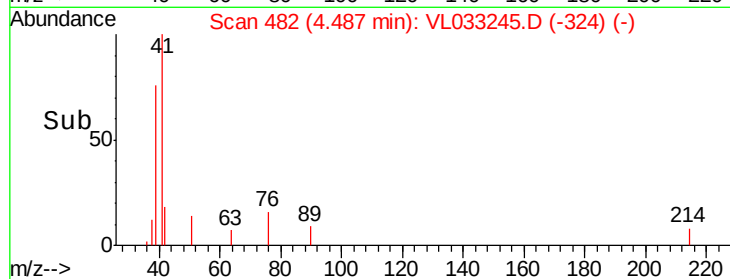
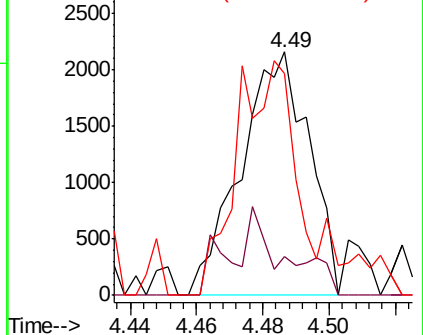


#21
 Allyl Chloride
 Concen: 0.042 ppbv
 RT: 4.49 min Scan# 482
 Delta R.T. 0.01 min
 Lab File: VL033245.D
 Acq: 6 Mar 2019 5:11

Tgt Ion: 41 Resp: 3098
 Ion Ratio Lower Upper
 41 100
 76 27.9 24.6 36.8
 39 96.3 65.2 97.8

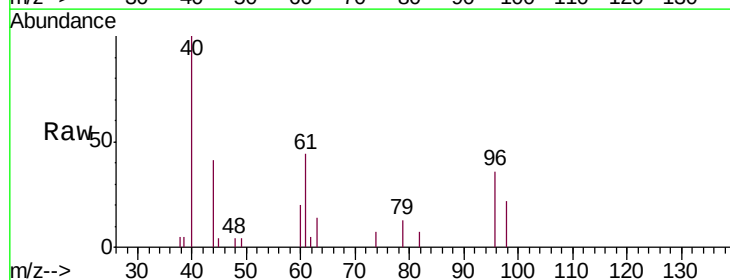


Abundance Ion 41.10 (40.80 to 41.80): VL0
 Ion 76.10 (75.80 to 76.80): VL0
 Ion 39.10 (38.80 to 39.80): VL0

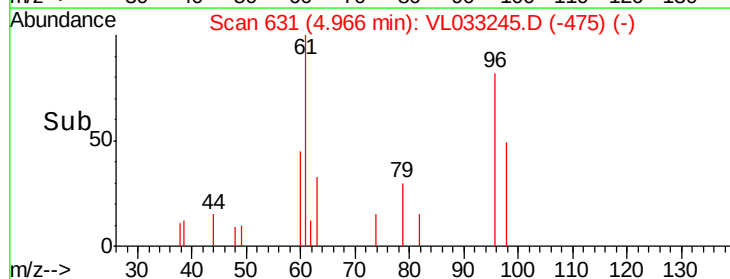
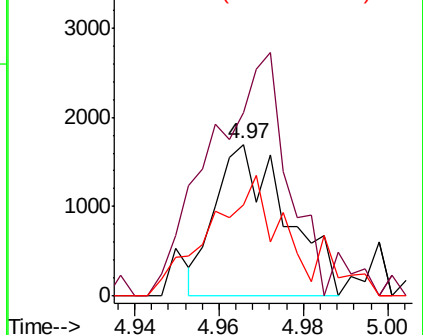


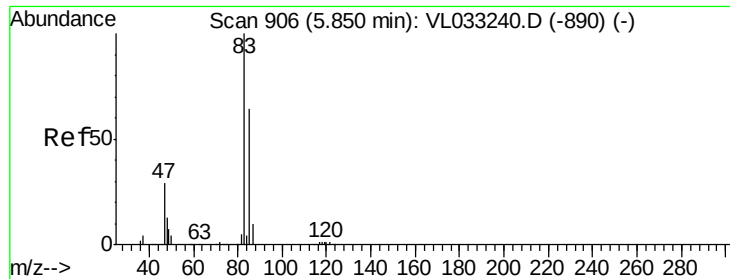
#22
 trans-1,2-Dichloroethene
 Concen: 0.042 ppbv
 RT: 4.97 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VL033245.D
 Acq: 6 Mar 2019 5:11

Tgt Ion: 96 Resp: 1978
 Ion Ratio Lower Upper
 96 100
 61 92.7 128.3 192.5#
 98 48.2 50.6 75.8#



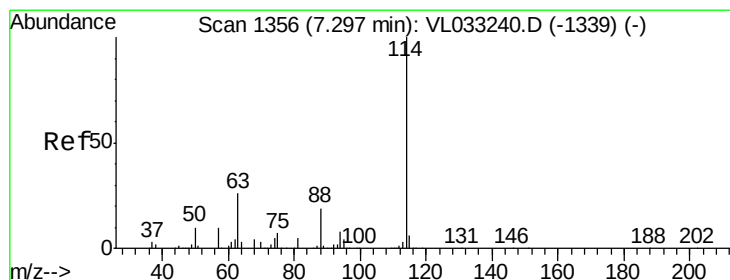
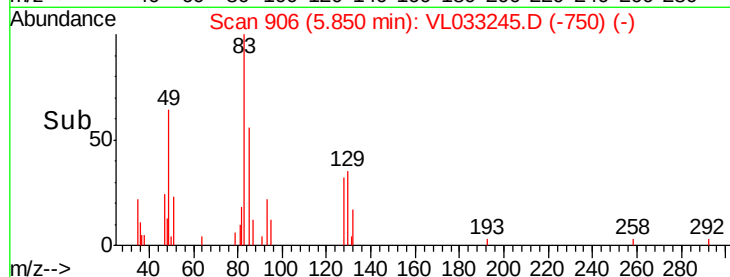
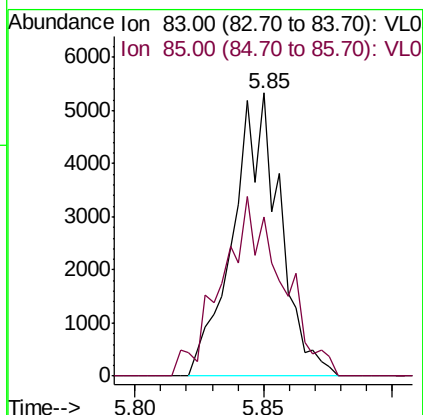
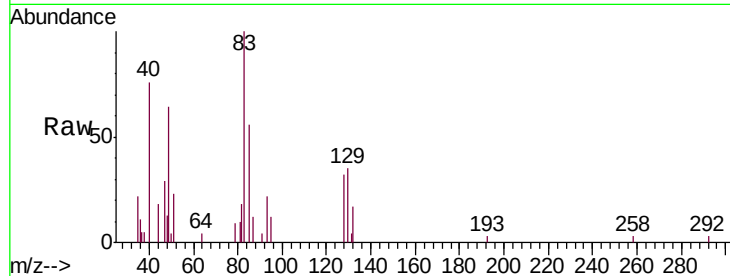
Abundance Ion 96.00 (95.70 to 96.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 98.00 (97.70 to 98.70): VL0





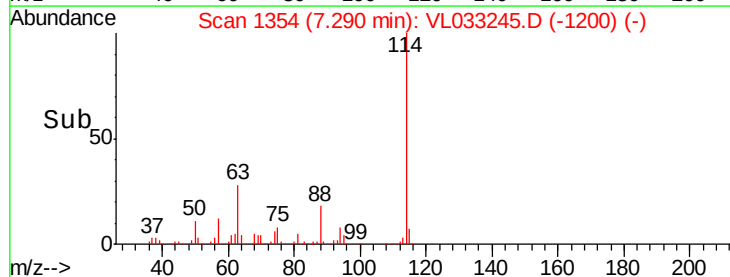
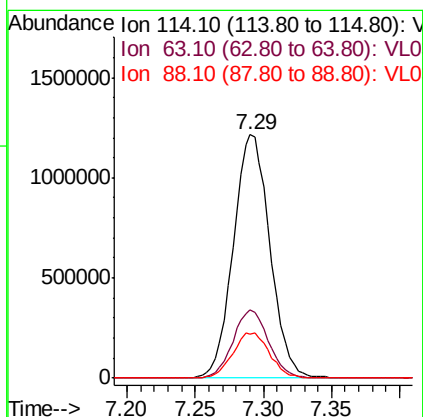
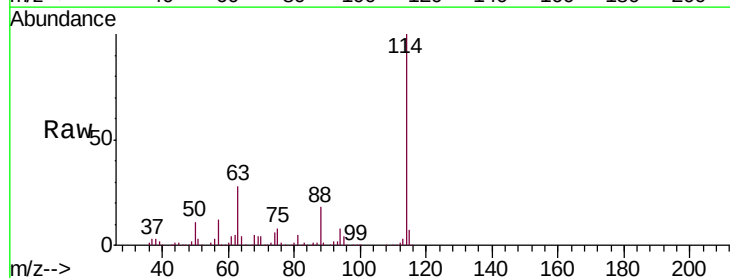
#29
Chloroform
Concen: 0.037 ppbv
RT: 5.85 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL033245.D
Acq: 6 Mar 2019 5:11

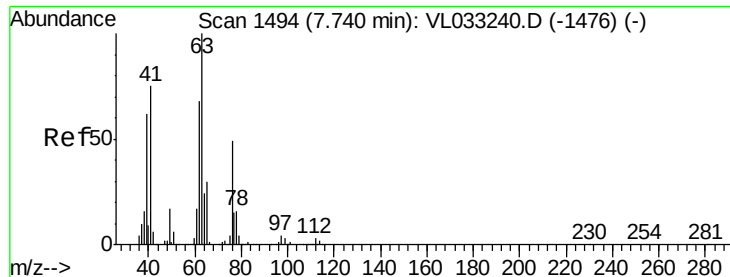
Tgt Ion: 83 Resp: 6772
Ion Ratio Lower Upper
83 100
85 56.2 51.2 76.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL033245.D
Acq: 6 Mar 2019 5:11

Tgt Ion: 114 Resp: 2258146
Ion Ratio Lower Upper
114 100
63 27.4 22.0 33.0
88 18.6 15.0 22.4





#39

1,2-Dichloropropane

Concen: 6.799 ppbv

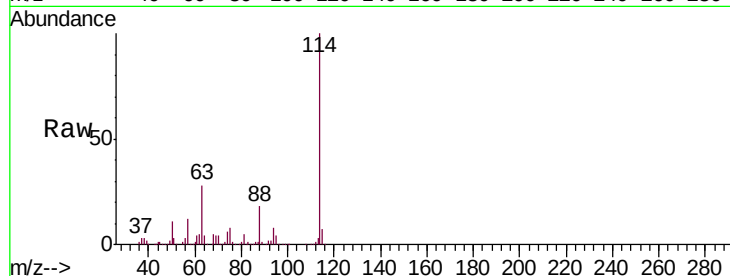
RT: 7.29 min Scan# 1354

Delta R.T. -0.45 min

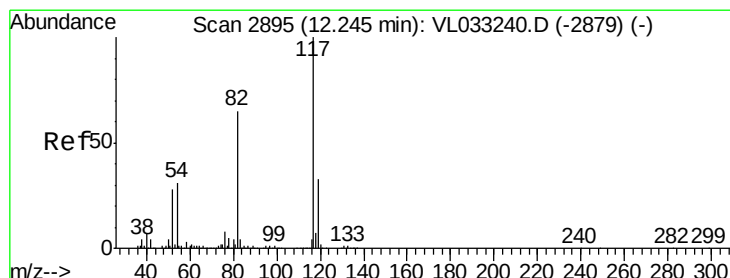
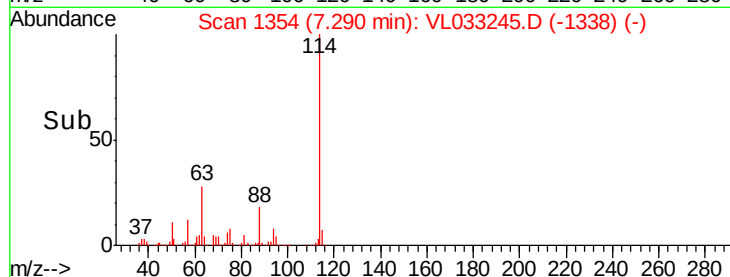
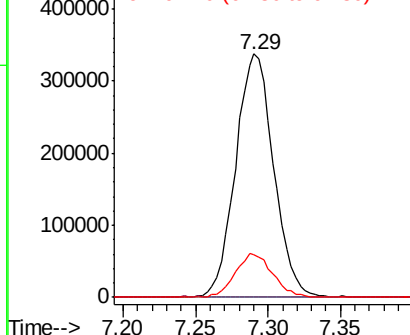
Lab File: VL033245.D

Acq: 6 Mar 2019 5:11

Tgt Ion:	63	Resp:	616052
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.0	90.0#
62	17.6	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

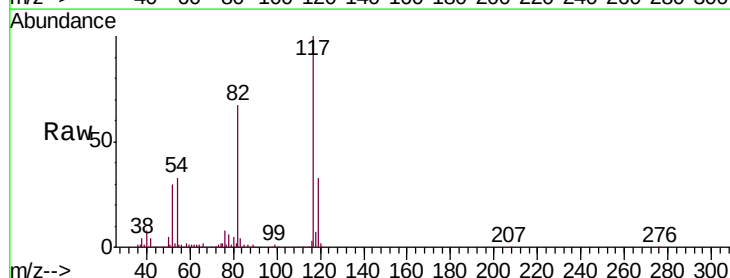
RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

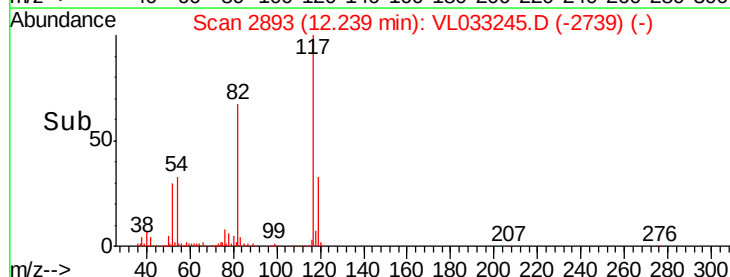
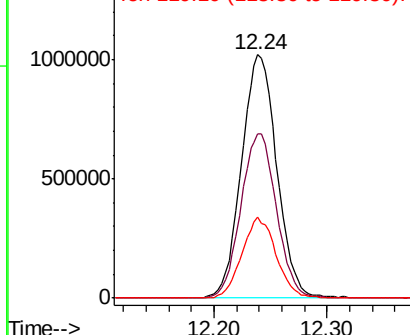
Lab File: VL033245.D

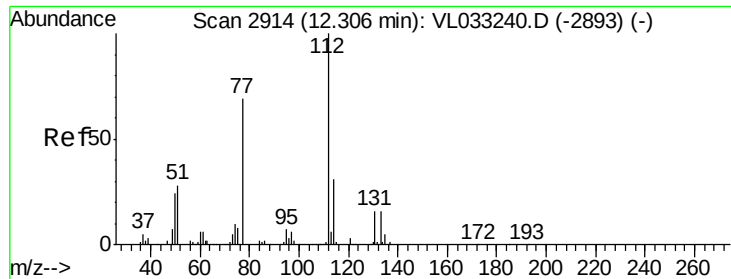
Acq: 6 Mar 2019 5:11

Tgt Ion:	117	Resp:	2216066
Ion	Ratio	Lower	Upper
117	100		
82	68.3	51.8	77.8
119	32.4	43.6	65.4#



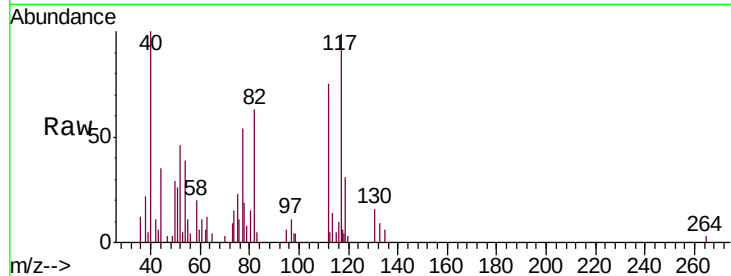
Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



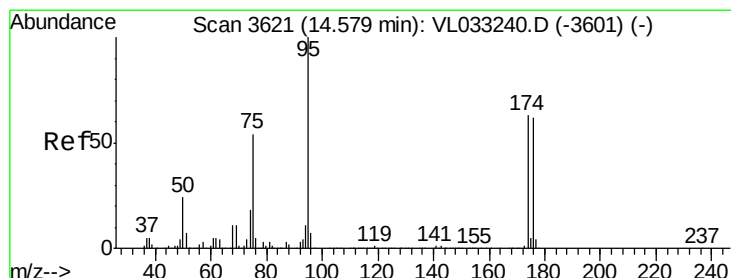
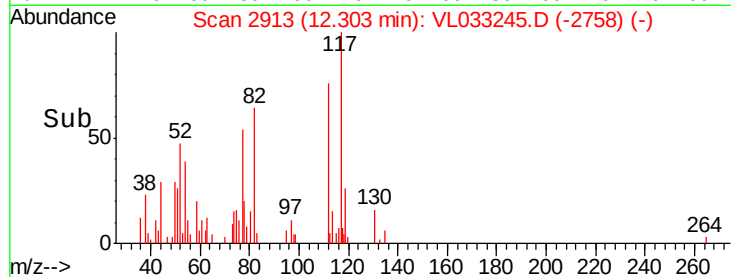
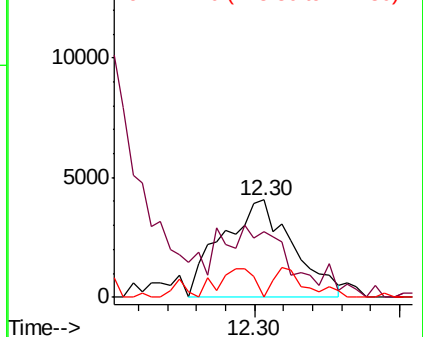


#57
Chlorobenzene
Concen: 0.036 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033245.D
Acq: 6 Mar 2019 5:11

Tgt Ion: 112 Resp: 6869
Ion Ratio Lower Upper
112 100
77 59.3 56.5 84.7
114 0.3 28.4 34.7#

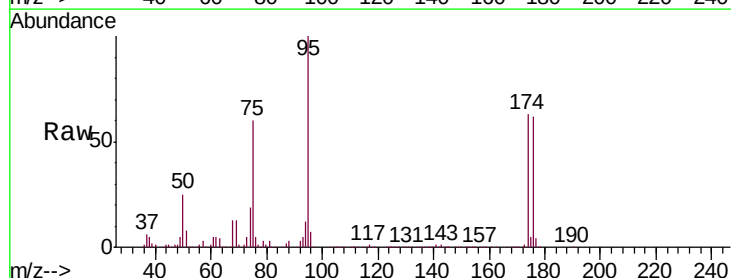


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.126 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033245.D
Acq: 6 Mar 2019 5:11

Tgt Ion: 95 Resp: 1727333
Ion Ratio Lower Upper
95 100
174 63.1 51.0 76.4
175 4.6 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

