

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030619\
 Data File : VL033250.D
 Acq On : 6 Mar 2019 10:27
 Operator : SY/AP
 Sample : OC022819 CAN 10314
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 04:30:17 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030619AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019

QLast Update : Wed Mar 06 08:43:44 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	858194	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1934439	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1944750	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1518268	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	2157	0.018 ppbv	89
3) Chlorodifluoromethane	3.08	51	547	0.006 ppbv	99
4) Chloromethane	3.17	50	449	0.009 ppbv #	72
5) Vinyl Chloride	3.05	62	410	0.007 ppbv #	42
8) Dichlorotetrafluoroethane	3.10	85	75	0.001 ppbv #	17
9) Propene	3.34	41	401	0.009 ppbv	100
10) Heptane	8.25	43	132	0.001 ppbv #	28
11) Trichlorofluoromethane	3.89	101	3114	0.022 ppbv #	60
12) 1,1,2-Trichlorotrifluoroet	4.44	101	229	0.002 ppbv	96
13) Ethanol	3.67	45	10671	0.815 ppbv	94
15) Acetone	3.92	43	23001m	0.208 ppbv	
16) 1,3-Butadiene	3.35	39	351	0.008 ppbv #	6
17) tert-Butyl alcohol	4.40	59	47	0.003 ppbv #	74
19) Isopropyl Alcohol	4.05	45	867	0.013 ppbv #	32
20) Methylene Chloride	4.41	84	20802	0.497 ppbv #	83
21) Allyl Chloride	4.44	41	48	0.001 ppbv #	1
23) Vinyl Acetate	5.16	43	850	0.005 ppbv #	60
24) 1,1-Dichloroethane	4.72	63	73	0.001 ppbv #	89
26) Hexane	5.78	57	13855m	0.146 ppbv	
27) Carbon Disulfide	4.62	76	38	0.000 ppbv #	1
28) Methyl tert-Butyl Ether	5.26	73	101	0.001 ppbv #	1
29) Chloroform	5.85	83	93	0.001 ppbv #	18
30) Cyclohexane	7.27	84	755	0.011 ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	91	0.001 ppbv #	26
34) 2-Butanone	5.35	43	463	0.003 ppbv #	55
36) Benzene	7.00	78	280	0.002 ppbv #	1
40) 1,4-Dioxane	7.73	88	29	0.001 ppbv #	1
41) Tetrahydrofuran	6.20	42	72	0.001 ppbv #	27
42) Bromodichloromethane	7.90	83	63	0.000 ppbv #	1
43) Methyl Methacrylate	8.19	69	98	0.001 ppbv #	17
44) 2,2,4-Trimethylpentane	7.99	57	87	0.000 ppbv #	45
45) t-1,3-Dichloropropene	9.41	75	88	0.001 ppbv #	44
46) cis-1,3-Dichloropropene	9.03	75	92	0.001 ppbv #	51
49) Bromoform	13.20	173	221	0.002 ppbv #	37
50) 4-Methyl-2-Pentanone	8.89	43	117	0.001 ppbv #	40
51) 2-Hexanone	10.28	43	74	0.000 ppbv #	30
52) Tetrachloroethene	11.38	164	163	0.002 ppbv #	1
53) Toluene	9.94	91	105	0.001 ppbv #	1
54) 1,2-Dibromoethane	10.76	107	98	0.001 ppbv #	4
56) 1,1,1,2-Tetrachloroethane	11.83	131	605	0.007 ppbv #	1
57) Chlorobenzene	12.25	112	119	0.001 ppbv #	1

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 06 08:43:44 2019

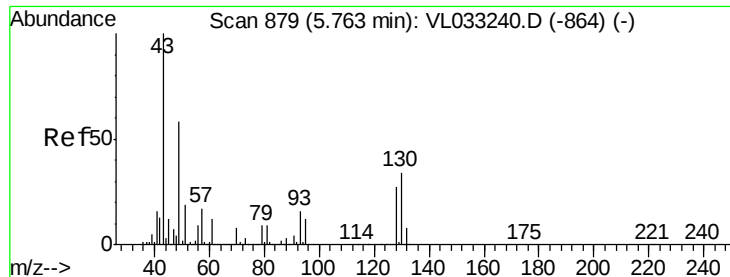
QLast Update : Wed Mar 06 08:43:44 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) Ethyl Benzene	12.86	91	152	0.001	ppbv #	45
59) m/p-Xylene	13.13	91	160	0.001	ppbv #	32
60) o-Xylene	13.85	91	121	0.001	ppbv #	33
62) Isopropylbenzene	14.83	105	188	0.001	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	13.84	83	153	0.001	ppbv #	25
64) n-propylbenzene	16.17	120	61	0.001	ppbv #	24
65) tert-Butylbenzene	16.91	119	162	0.001	ppbv #	36
66) Benzyl Chloride	17.15	91	51	0.001	ppbv #	67
67) sec-Butylbenzene	17.45	105	144	0.000	ppbv #	60
69) p-Isopropyltoluene	17.82	119	163	0.001	ppbv #	11
70) n-Butylbenzene	18.71	91	94	0.000	ppbv #	71
71) 2-Chlorotoluene	15.61	91	130	0.001	ppbv #	46
72) 4-Ethyltoluene	15.94	105	150	0.001	ppbv #	78
73) 1,3,5-Trimethylbenzene	16.15	105	442	0.002	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.92	105	268	0.001	ppbv #	60
75) 1,3-Dichlorobenzene	17.17	146	156	0.001	ppbv #	23
76) 1,4-Dichlorobenzene	17.31	146	78	0.001	ppbv #	1
77) 1,2-Dichlorobenzene	17.98	146	41	0.000	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.54	225	150	0.002	ppbv #	18
79) Naphthalene	22.41	128	264	0.001	ppbv #	69
81) 1,2,4-Trichlorobenzene	22.13	180	125	0.001	ppbv #	12

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

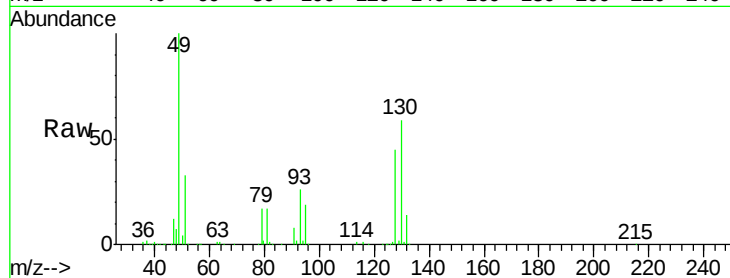
Tot Ion: 49 Resp: 858194

Ion Ratio Lower Upper

49 100

128 45.9 22.9 68.8

130 59.1 29.3 88.0



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

600000

500000

400000

300000

200000

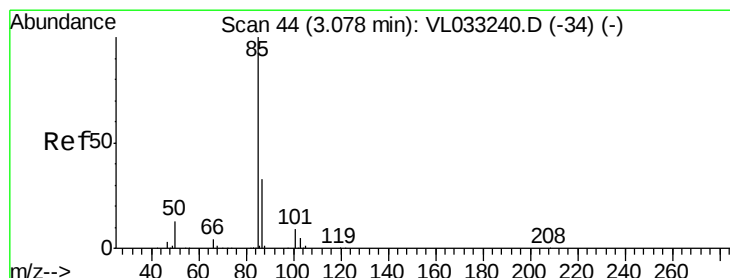
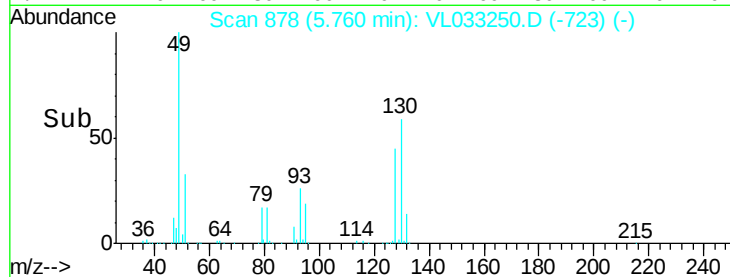
100000

0

5.76

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.018 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.04 min

Lab File: VL033250.D

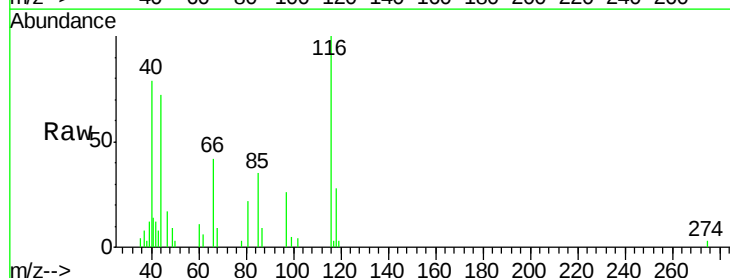
Acq: 6 Mar 2019 10:27

Tgt Ion: 85 Resp: 2157

Ion Ratio Lower Upper

85 100

87 26.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

2500

2000

1500

1000

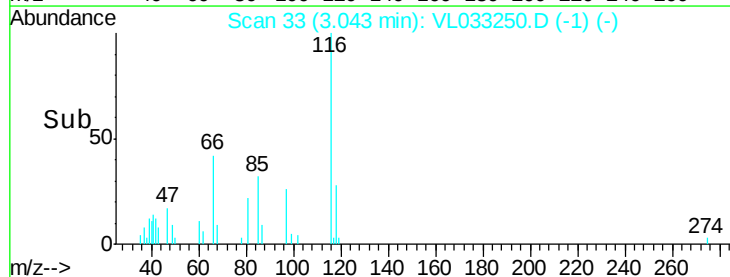
500

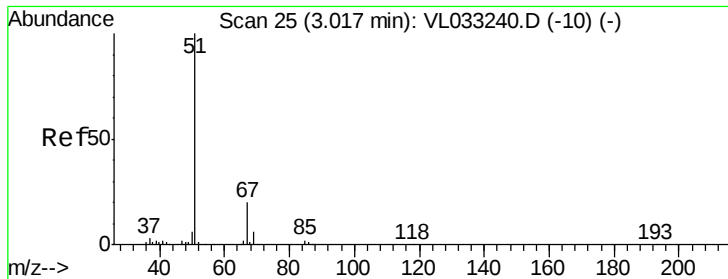
0

3.04

3.02 3.04 3.06

Time-->





#3

Chlorodifluoromethane

Concen: 0.006 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.06 min

Lab File: VL033250.D

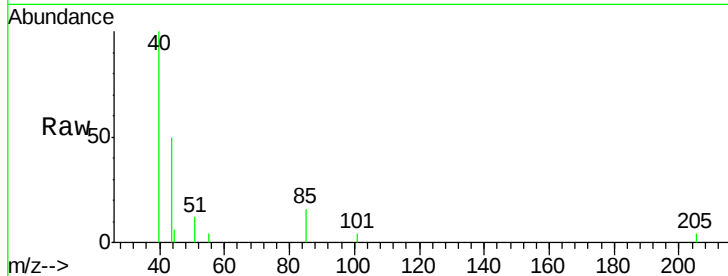
Acq: 6 Mar 2019 10:27

Tot Ion: 51 Resp: 547

Ion Ratio Lower Upper

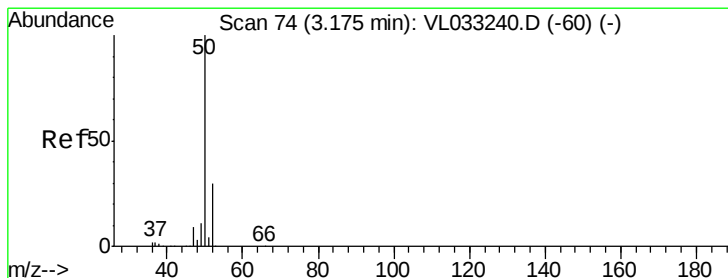
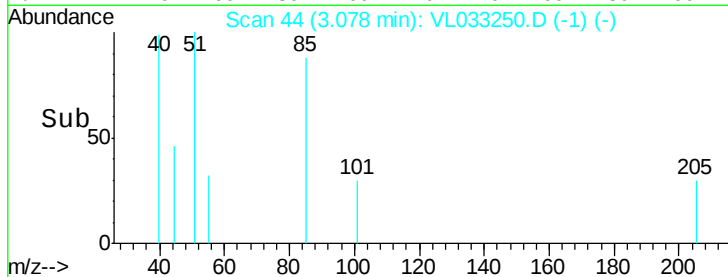
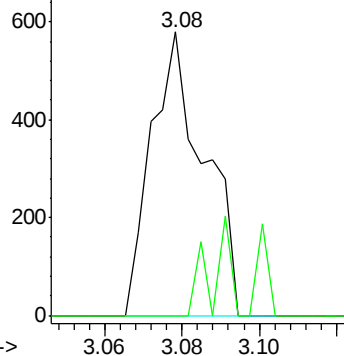
51 100

67 19.0 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: 0.009 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033250.D

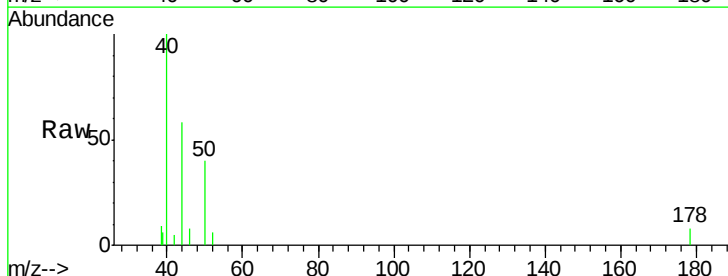
Acq: 6 Mar 2019 10:27

Tgt Ion: 50 Resp: 449

Ion Ratio Lower Upper

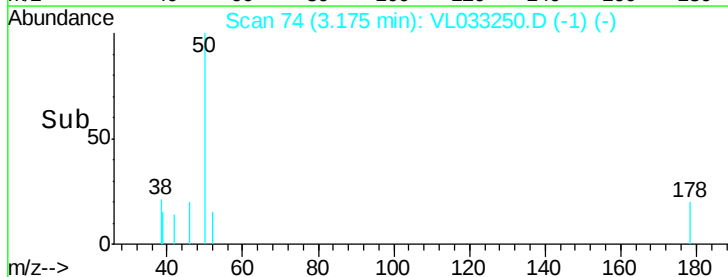
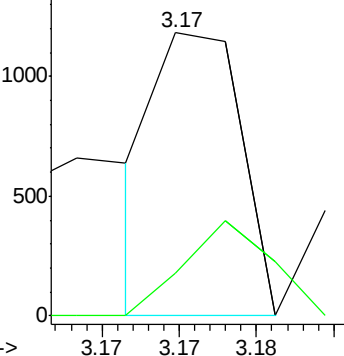
50 100

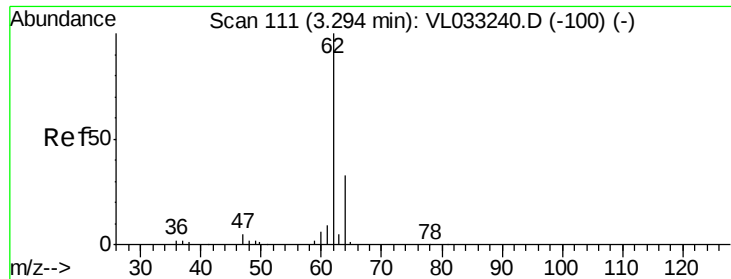
52 15.1 24.3 36.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.007 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.24 min

Lab File: VL033250.D

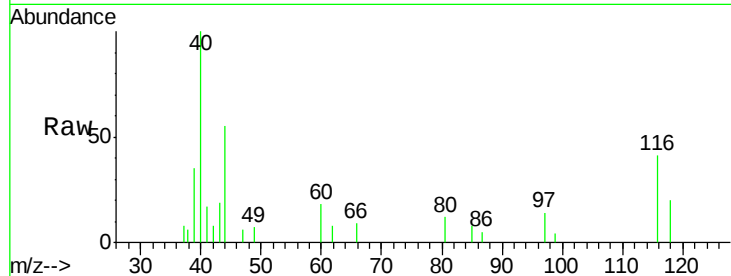
Acq: 6 Mar 2019 10:27

Tot Ion: 62 Resp: 410

Ion Ratio Lower Upper

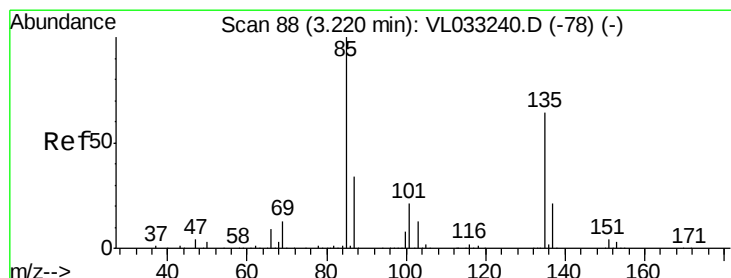
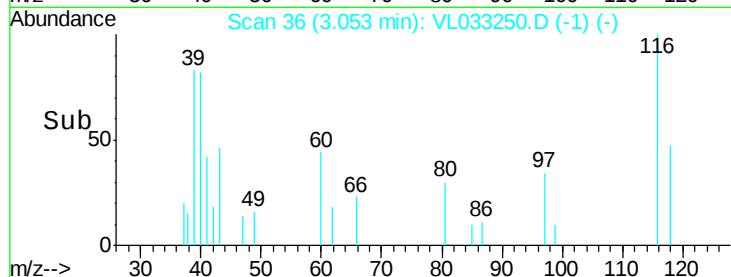
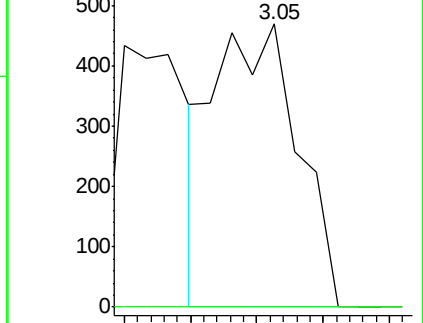
62 100

64 0.0 26.2 39.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.001 ppbv

RT: 3.10 min Scan# 50

Delta R.T. -0.12 min

Lab File: VL033250.D

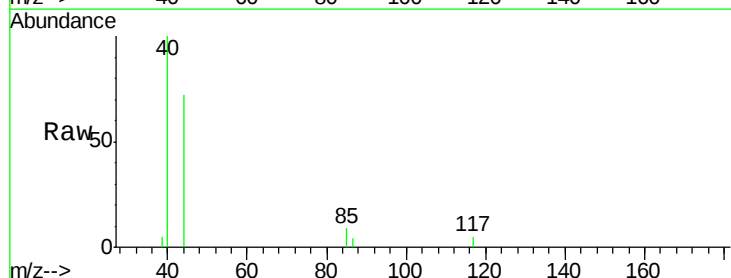
Acq: 6 Mar 2019 10:27

Tgt Ion: 85 Resp: 75

Ion Ratio Lower Upper

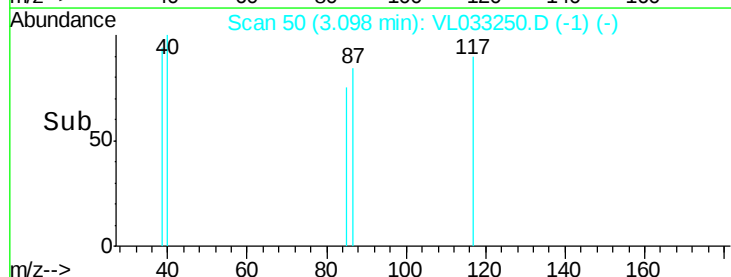
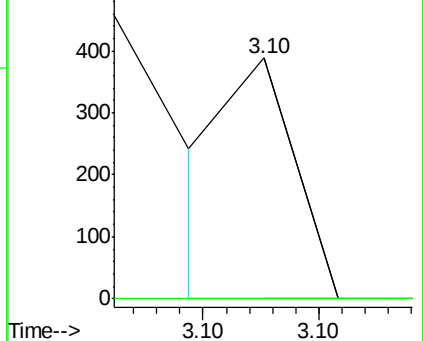
85 100

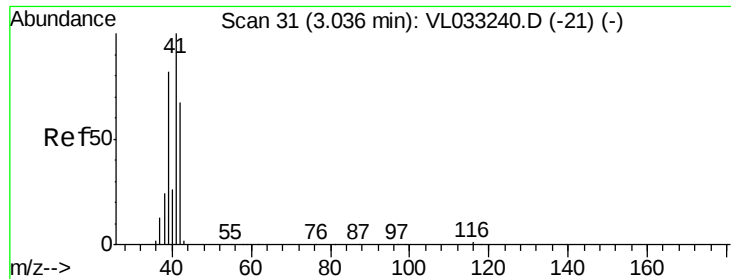
135 0.0 52.6 79.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.009 ppbv

RT: 3.34 min Scan# 124

Delta R.T. 0.30 min

Lab File: VL033250.D

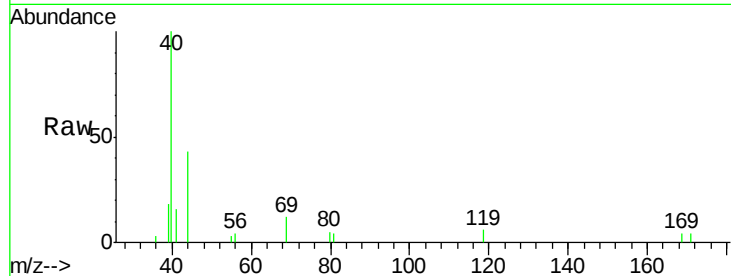
Acq: 6 Mar 2019 10:27

Tot Ion: 41 Resp: 401

Ion Ratio Lower Upper

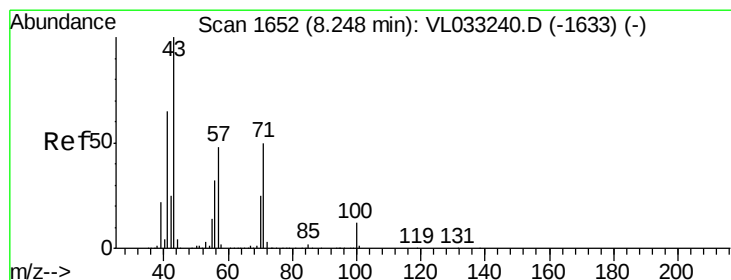
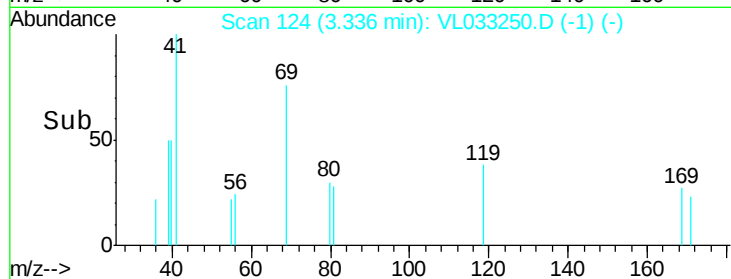
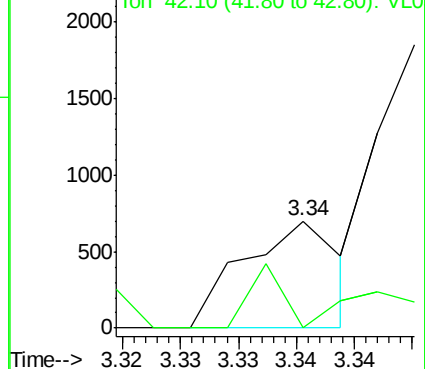
41 100

42 69.1 55.3 82.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.001 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL033250.D

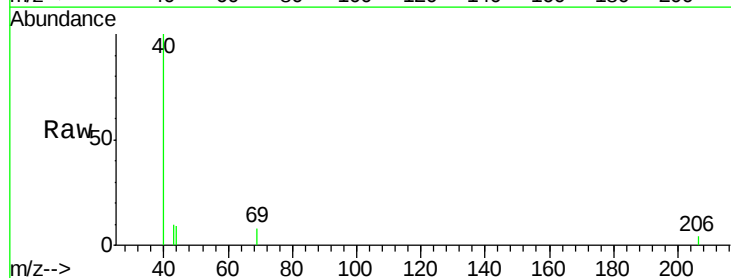
Acq: 6 Mar 2019 10:27

Tgt Ion: 43 Resp: 132

Ion Ratio Lower Upper

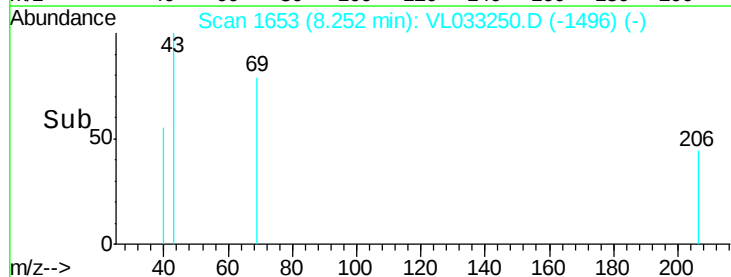
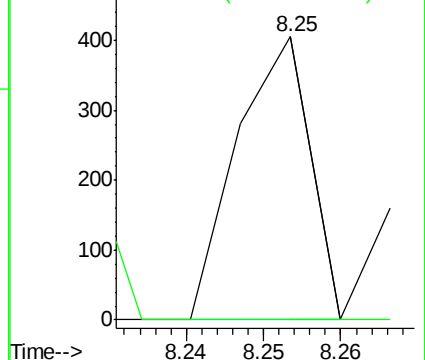
43 100

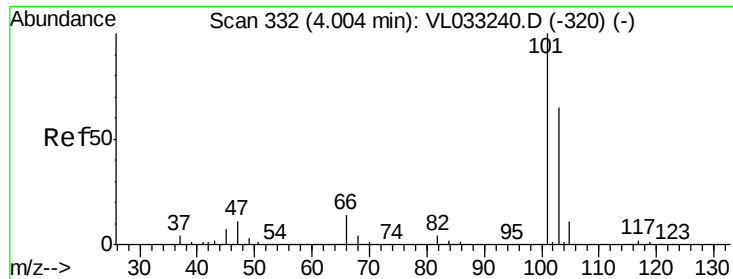
57 0.0 39.8 59.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.022 ppbv

RT: 3.89 min Scan# 295

Delta R.T. -0.12 min

Lab File: VL033250.D

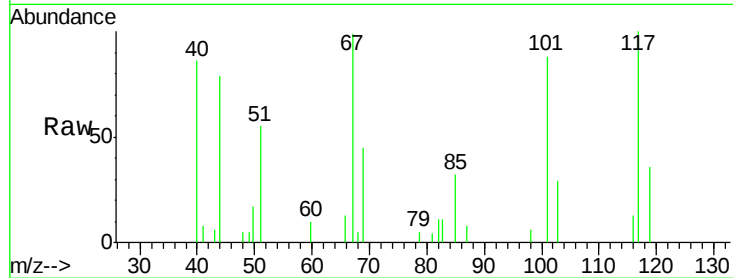
Acq: 6 Mar 2019 10:27

Tot Ion:101 Resp: 3114

Ion Ratio Lower Upper

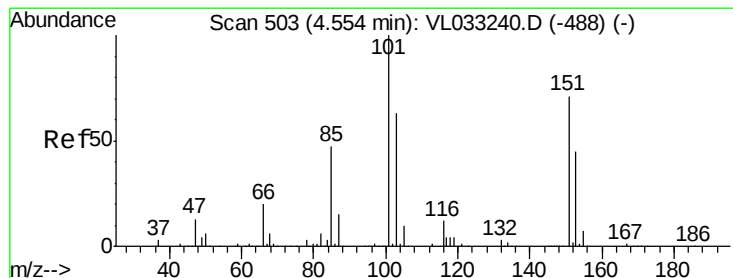
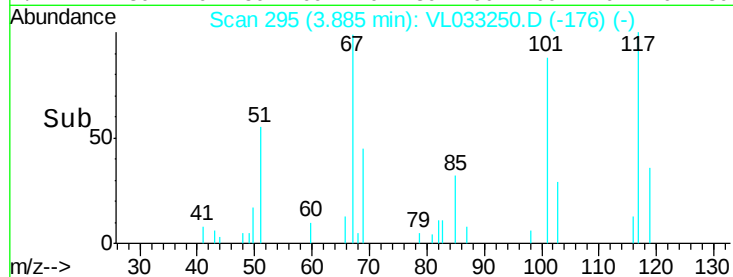
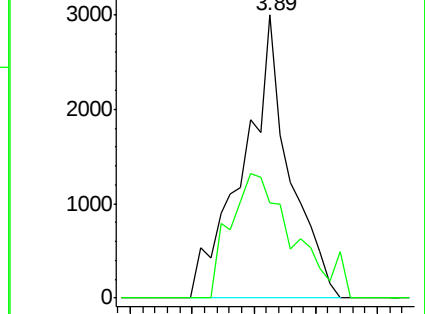
101 100

103 33.5 51.7 77.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.002 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.12 min

Lab File: VL033250.D

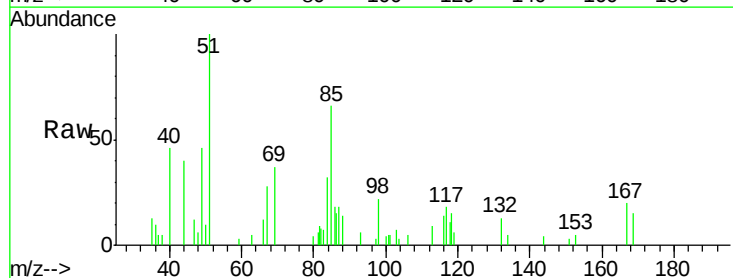
Acq: 6 Mar 2019 10:27

Tgt Ion:101 Resp: 229

Ion Ratio Lower Upper

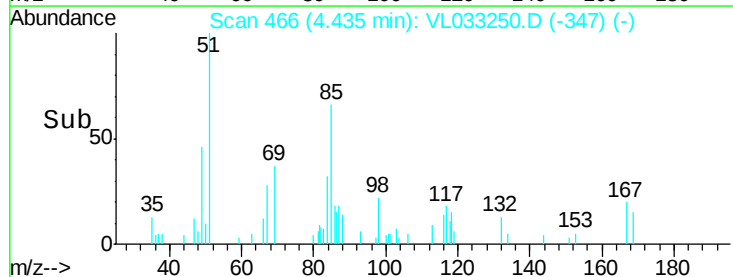
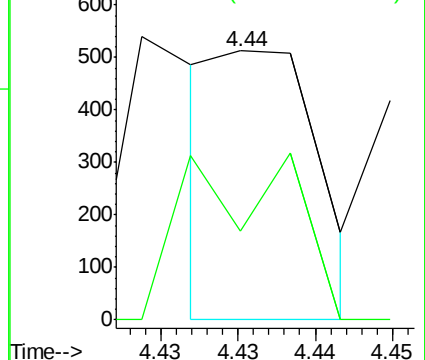
101 100

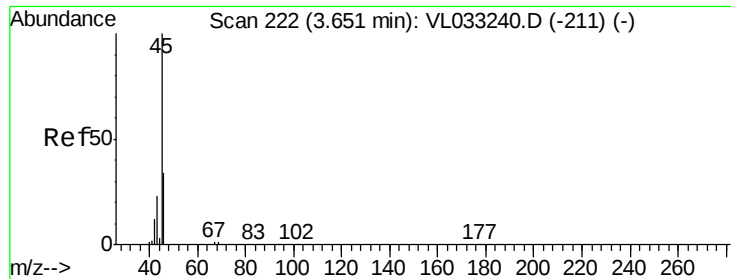
151 67.7 57.0 85.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.815 ppbv

RT: 3.67 min Scan# 229

Delta R.T. 0.02 min

Lab File: VL033250.D

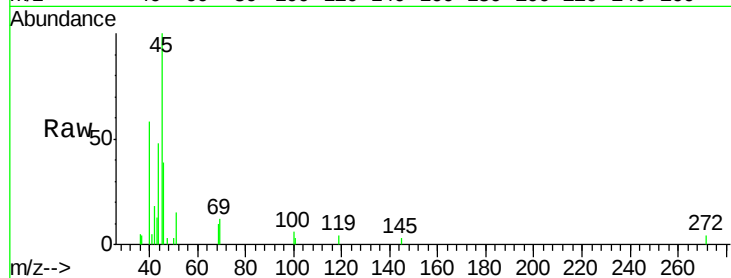
Acq: 6 Mar 2019 10:27

Tot Ion: 45 Resp: 10671

Ion Ratio Lower Upper

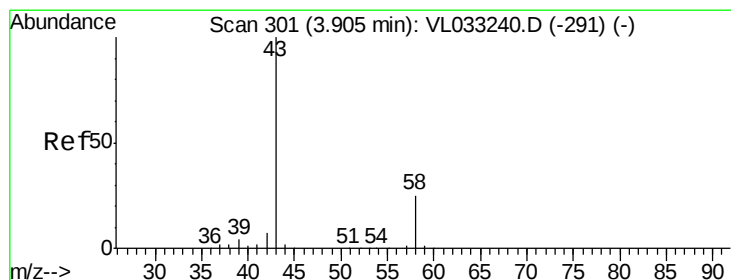
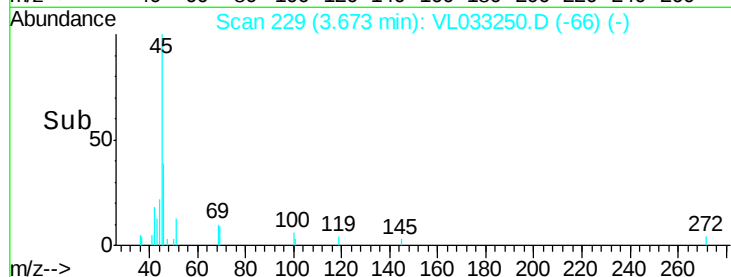
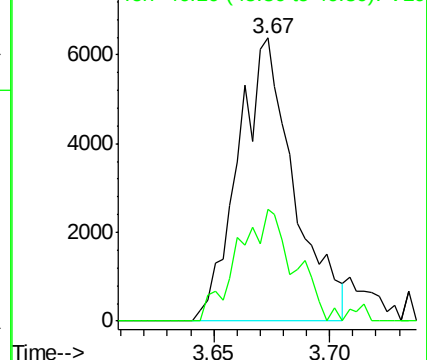
45 100

46 41.7 15.3 61.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 0.208 ppbv m

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033250.D

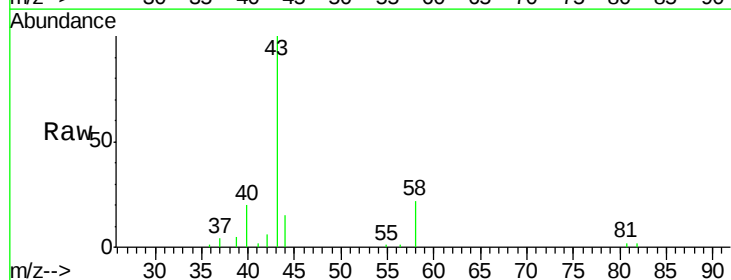
Acq: 6 Mar 2019 10:27

Tgt Ion: 43 Resp: 23001

Ion Ratio Lower Upper

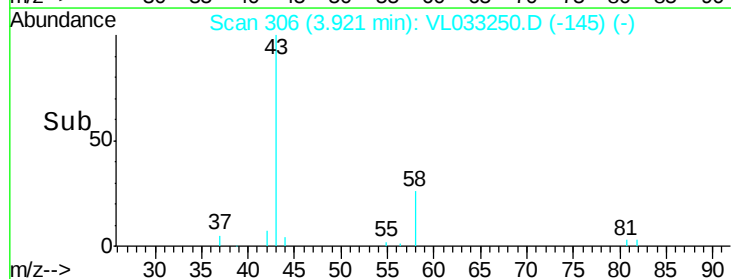
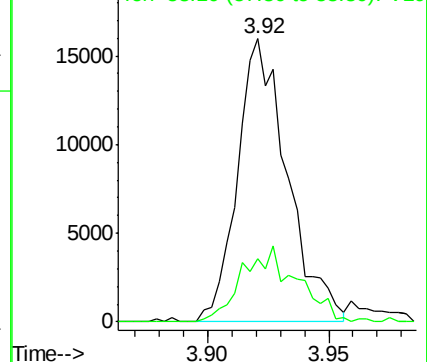
43 100

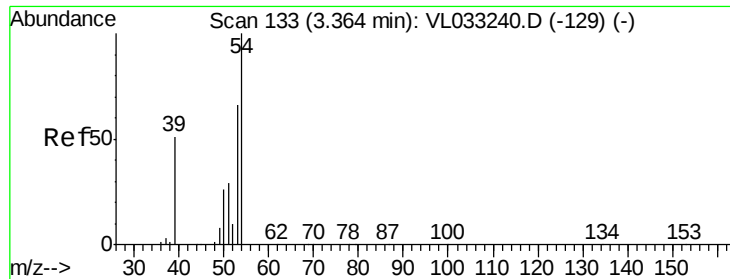
58 29.5 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

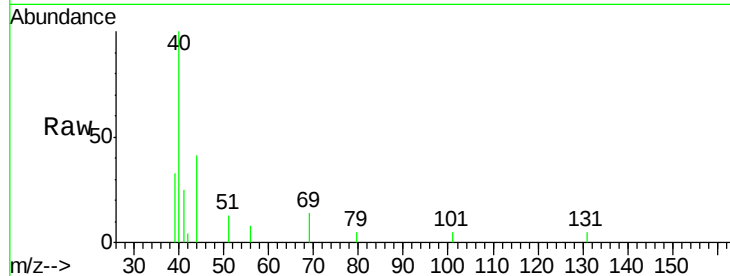
Ion 58.10 (57.80 to 58.80): VL0



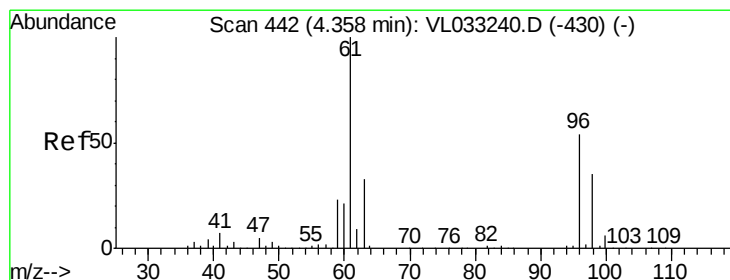
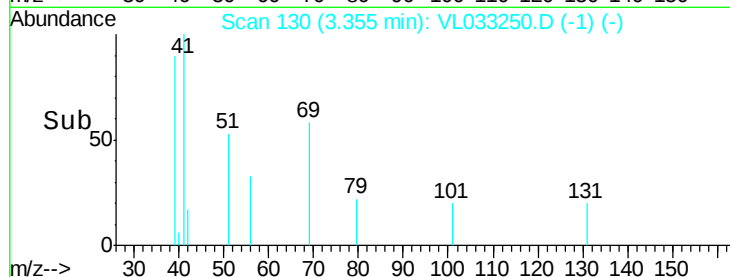
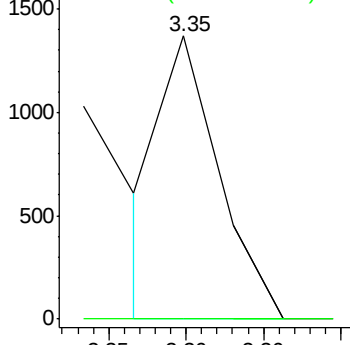


#16
1,3-Butadiene
Concen: 0.008 ppbv
RT: 3.35 min Scan# 130
Delta R.T. -0.01 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tot Ion: 39 Resp: 351
Ion Ratio Lower Upper
39 100
54 0.0 69.6 104.4#

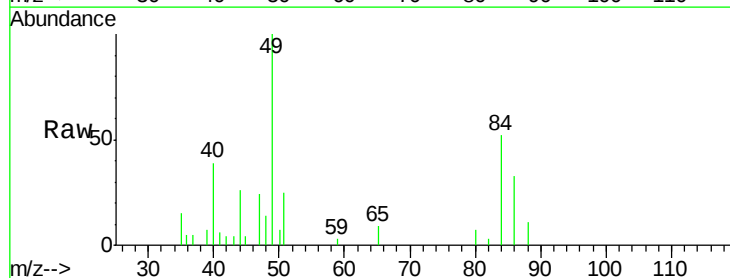


Abundance Ion 39.10 (38.80 to 39.80): VL0
Ion 54.10 (53.80 to 54.80): VL0

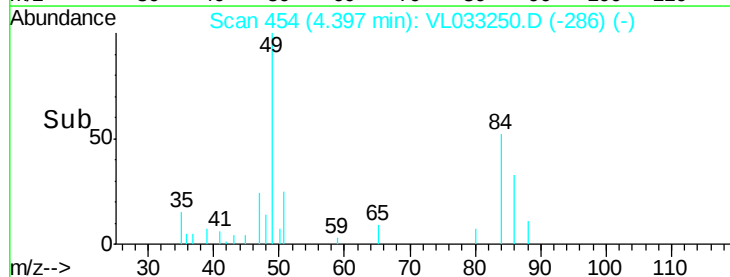
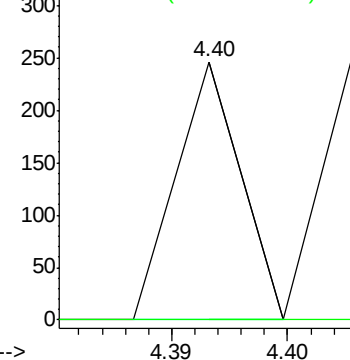


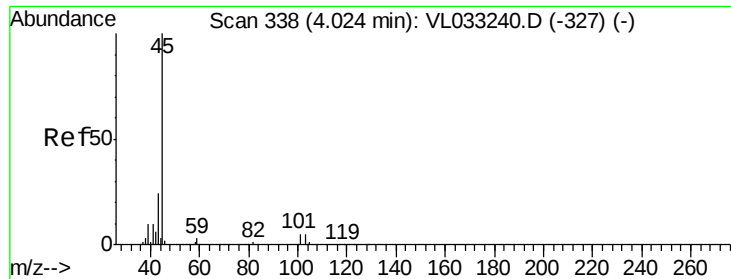
#17
tert-Butyl alcohol
Concen: 0.003 ppbv
RT: 4.40 min Scan# 454
Delta R.T. 0.04 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tgt Ion: 59 Resp: 47
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



Abundance Ion 59.10 (58.80 to 59.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 0.013 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033250.D

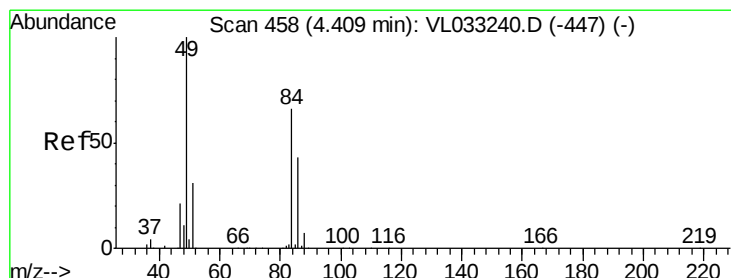
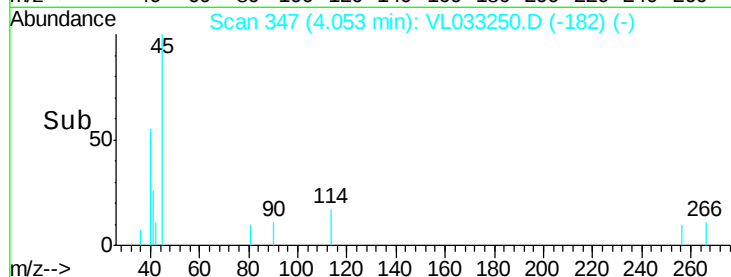
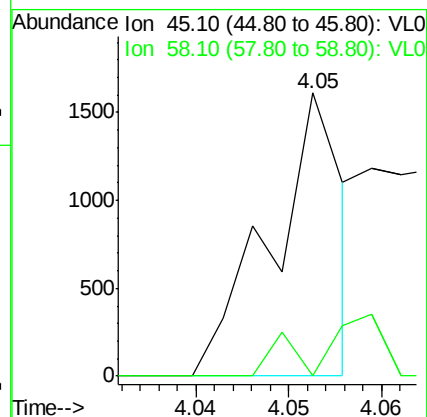
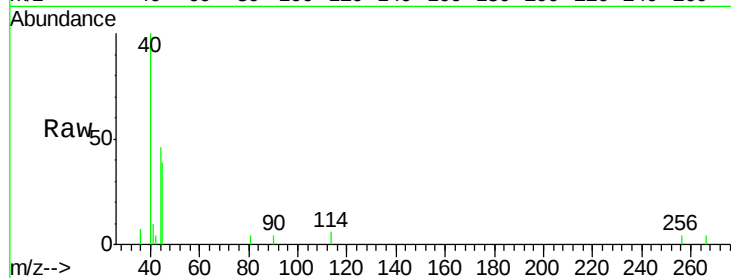
Acq: 6 Mar 2019 10:27

Tot Ion: 45 Resp: 867

Ion Ratio Lower Upper

45 100

58 26.8 1.4 2.0#



#20

Methylene Chloride

Concen: 0.497 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

Tgt Ion: 84 Resp: 20802

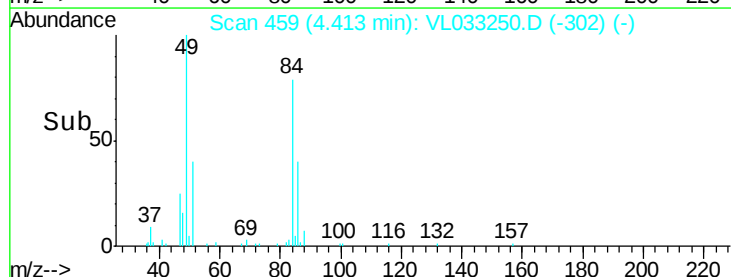
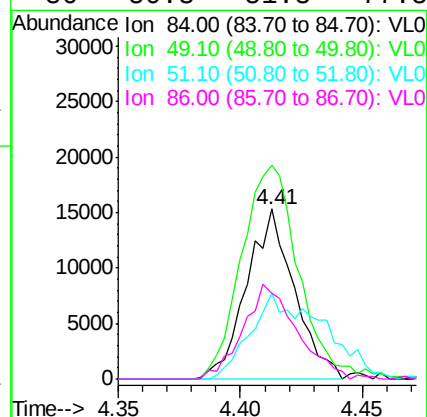
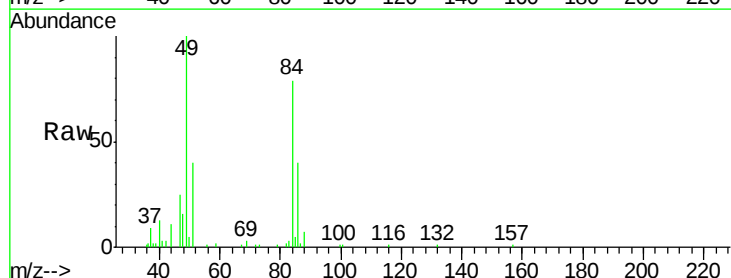
Ion Ratio Lower Upper

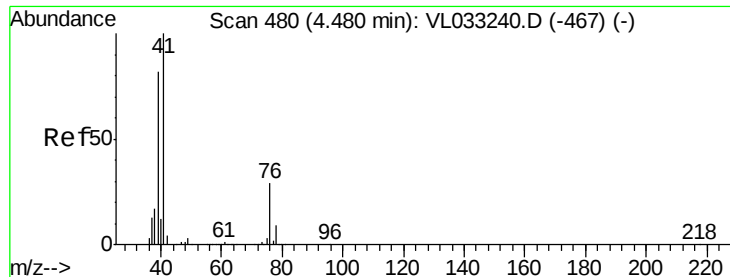
84 100

49 125.8 120.4 180.6

51 50.4 36.7 55.1

86 50.3 51.8 77.8#





#21

Allvl Chloride

Concen: 0.001 ppbv

RT: 4.44 min Scan# 467

Delta R.T. -0.04 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

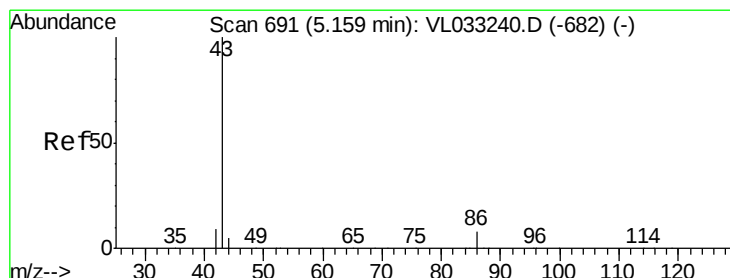
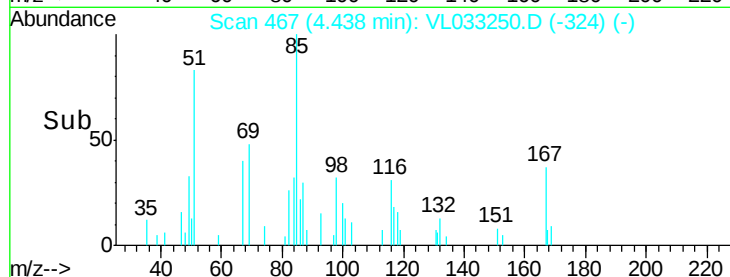
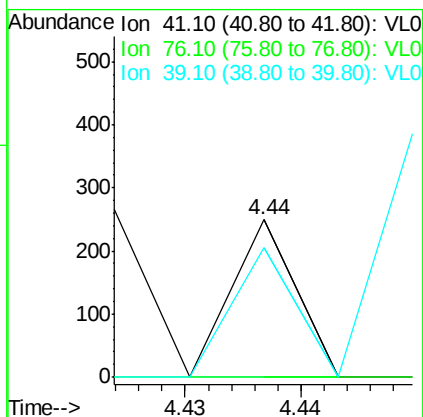
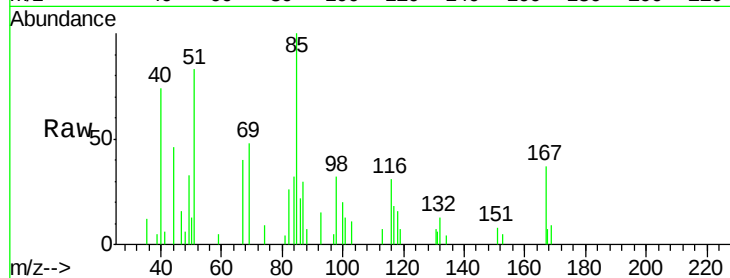
Tot Ion: 41 Resp: 48

Ion Ratio Lower Upper

41 100

76 0.0 24.6 36.8#

39 1545.8 65.2 97.8#



#23

Vinyl Acetate

Concen: 0.005 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

Tgt Ion: 43 Resp: 850

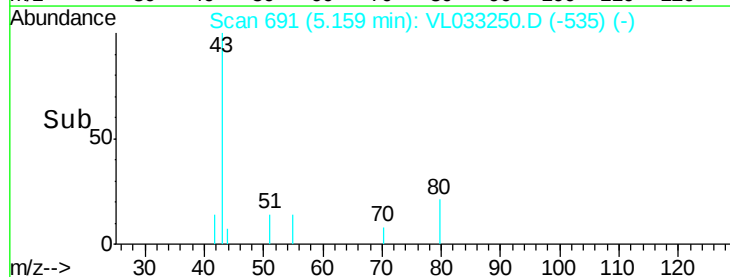
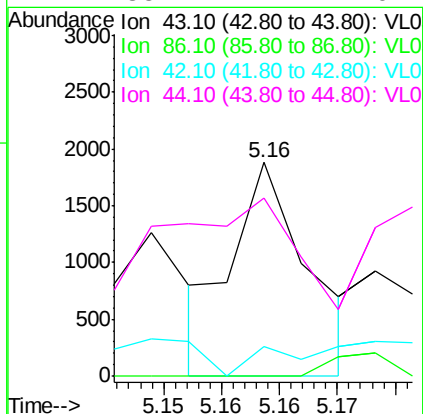
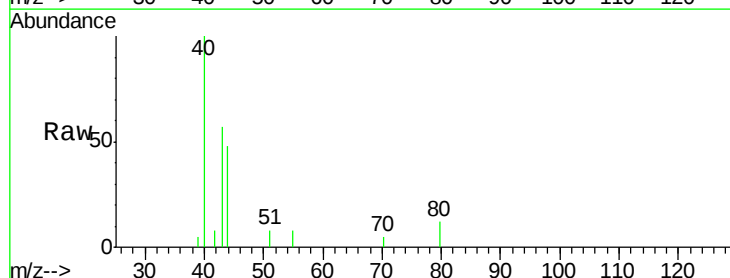
Ion Ratio Lower Upper

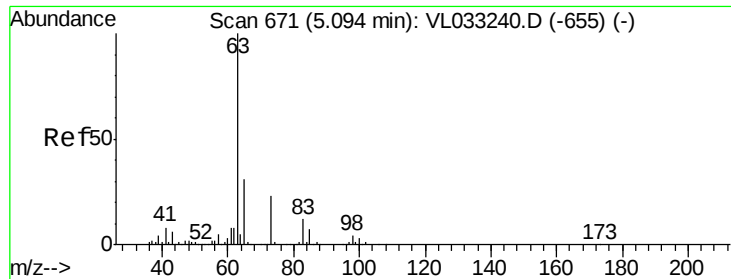
43 100

86 0.0 5.5 8.3#

42 0.0 7.7 11.5#

44 35.7 4.1 6.1#





#24

1,1-Dichloroethane

Concen: 0.001 ppbv

RT: 4.72 min Scan# 554

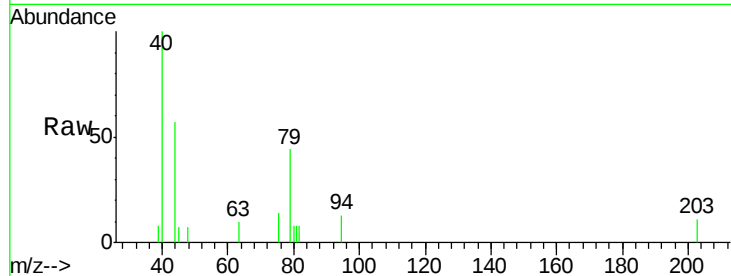
Delta R.T. -0.38 min

Lab File: VL033250.D

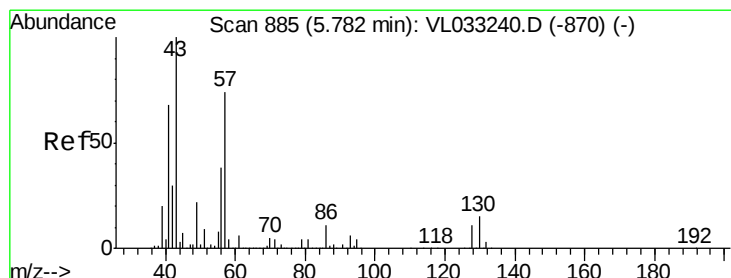
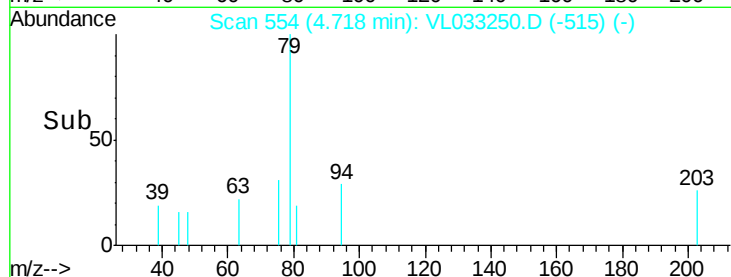
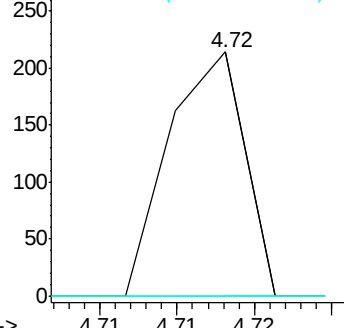
Acq: 6 Mar 2019 10:27

Tot Ion: 63 Resp: 73

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.3#
100	0.0	1.3	3.8#



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



#26

Hexane

Concen: 0.146 ppbv m

RT: 5.78 min Scan# 884

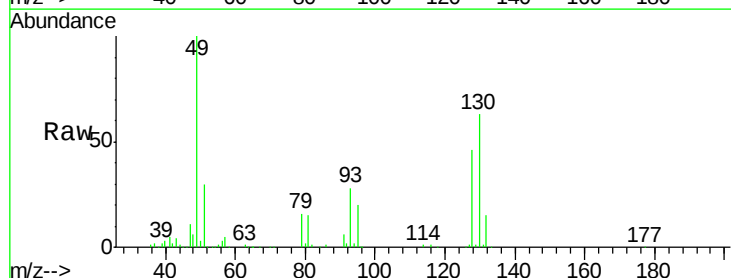
Delta R.T. -0.00 min

Lab File: VL033250.D

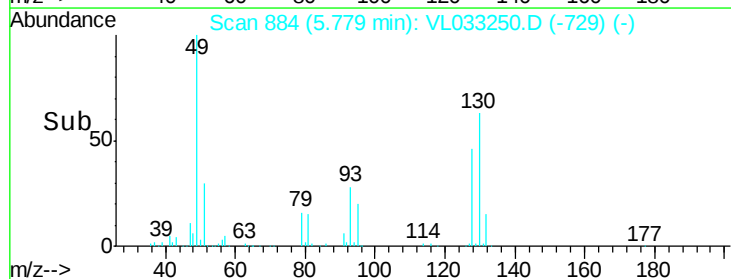
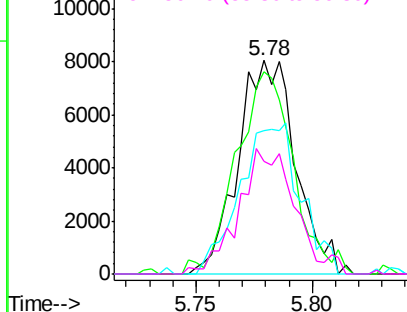
Acq: 6 Mar 2019 10:27

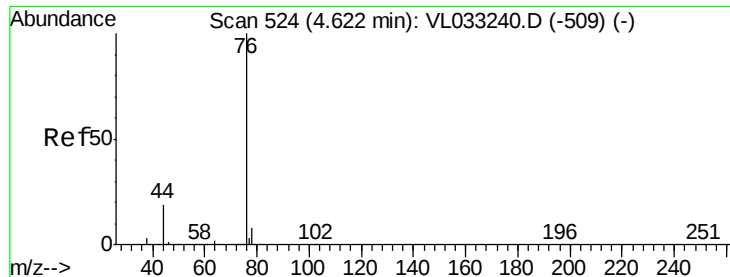
Tgt Ion: 57 Resp: 13855

Ion	Ratio	Lower	Upper
57	100		
41	95.2	73.4	110.2
43	0.0	182.1	273.1#
56	57.4	42.6	64.0



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





#27

Carbon Disulfide

Concen: 0.000 ppbv

RT: 4.62 min Scan# 524

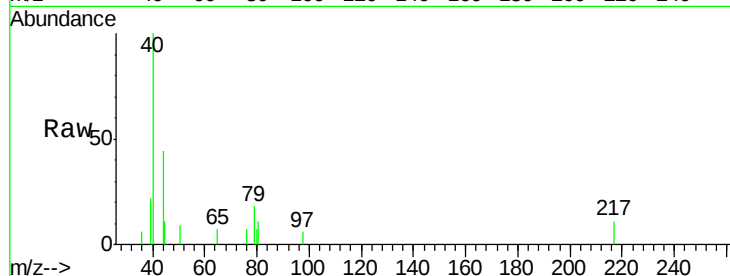
Delta R.T. 0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

Tot Ion: 76 Resp: 38

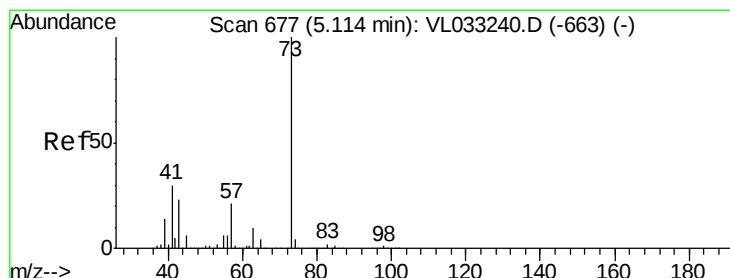
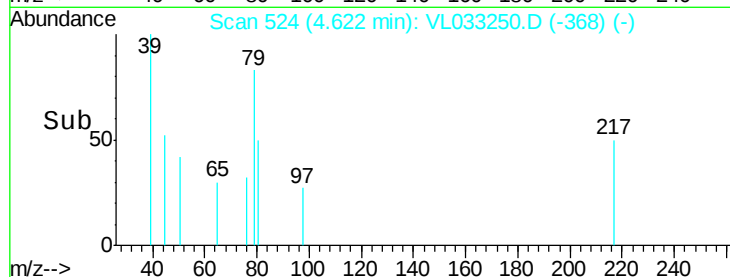
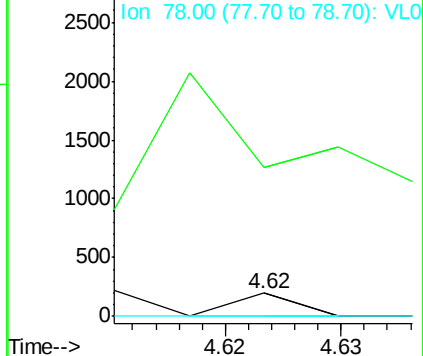
Ion	Ratio	Lower	Upper
76	100		
44	2226.3	15.0	22.6#
78	0.0	7.3	10.9#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.001 ppbv

RT: 5.26 min Scan# 723

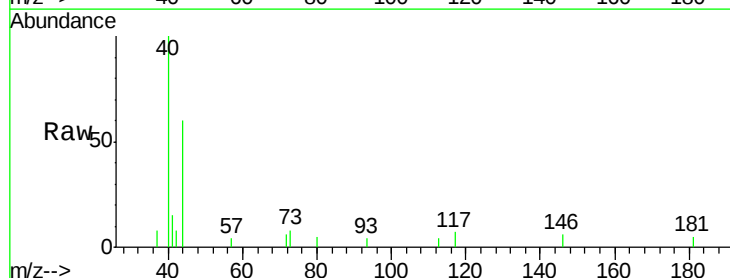
Delta R.T. 0.15 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

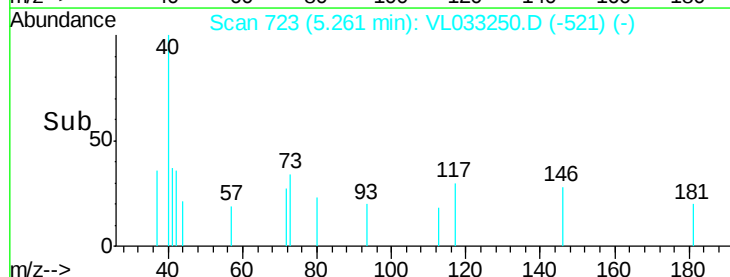
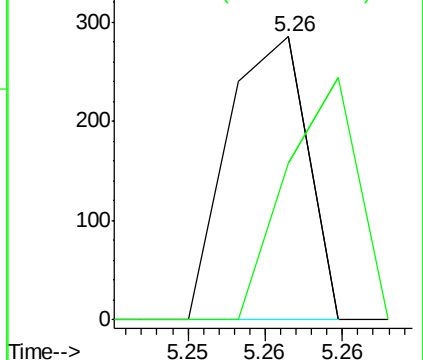
Tgt Ion: 73 Resp: 101

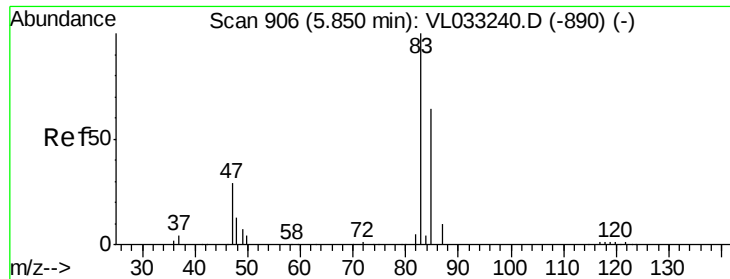
Ion	Ratio	Lower	Upper
73	100		
57	86.1	17.6	26.4#



Abundance Ion 73.10 (72.80 to 73.80): VL0

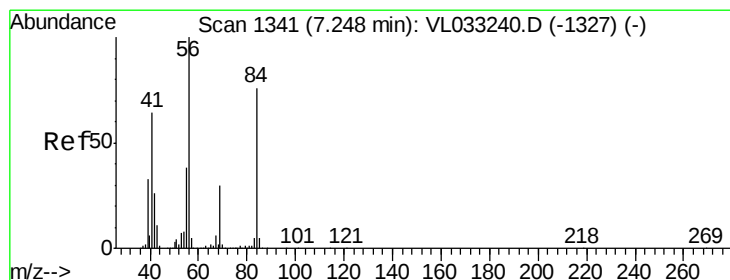
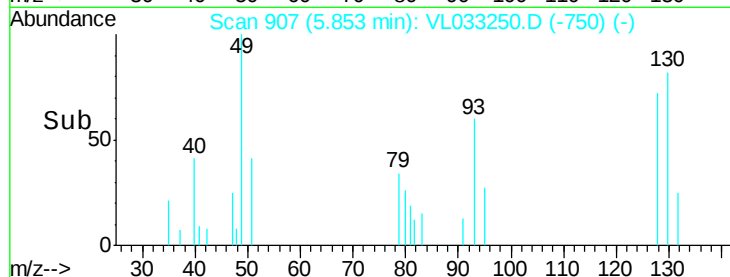
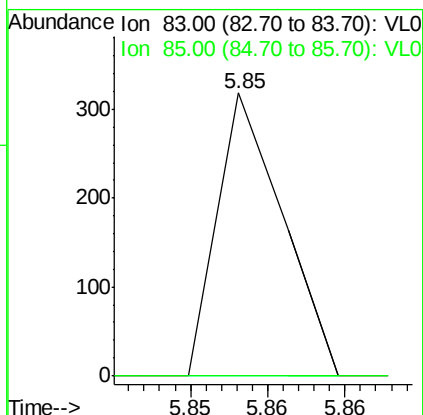
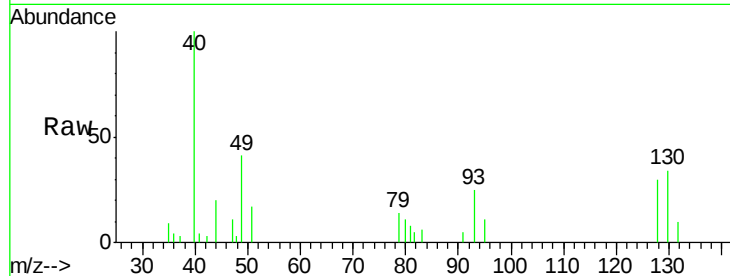
Ion 57.10 (56.80 to 57.80): VL0





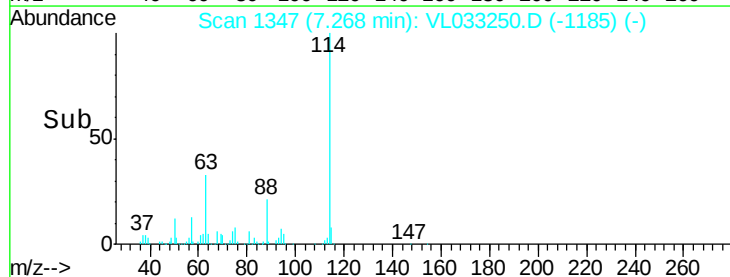
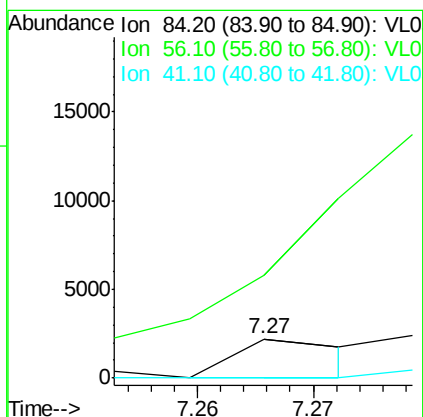
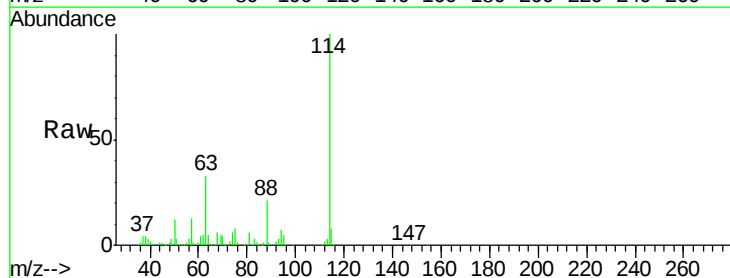
#29
Chloroform
Concen: 0.001 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

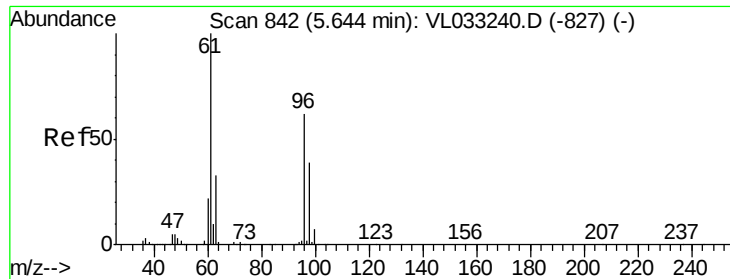
Tot Ion: 83 Resp: 93
Ion Ratio Lower Upper
83 100
85 0.0 51.2 76.8#



#30
Cyclohexane
Concen: 0.011 ppbv
RT: 7.27 min Scan# 1347
Delta R.T. 0.02 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tgt Ion: 84 Resp: 755
Ion Ratio Lower Upper
84 100
56 0.0 113.1 169.7#
41 0.0 70.8 106.2#

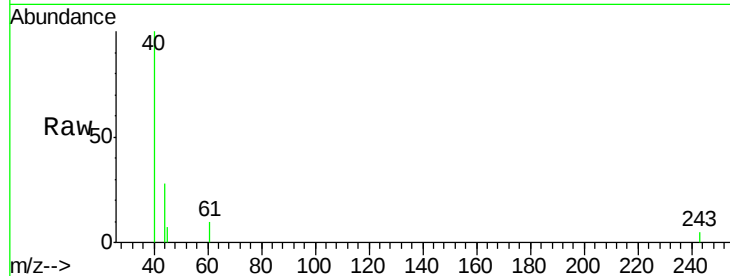




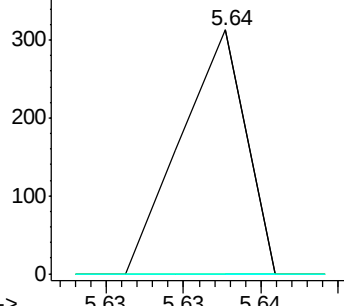
#31

cis-1,2-Dichloroethene
Concen: 0.001 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.01 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

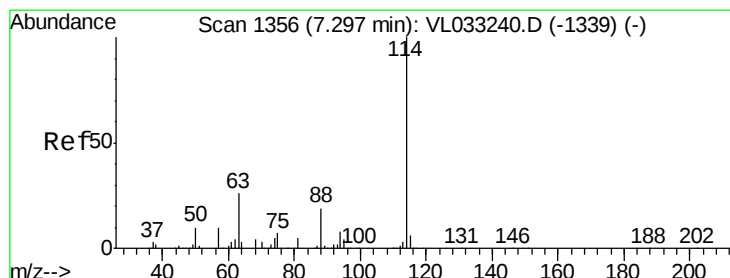
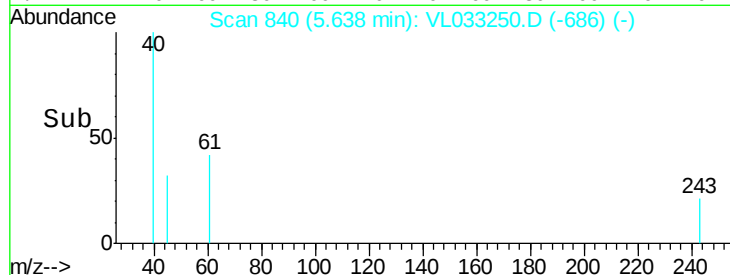
Tot Ion	Ratio	Lower	Upper
61	100		
96	0.0	49.4	74.0#
98	0.0	31.2	46.8#



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



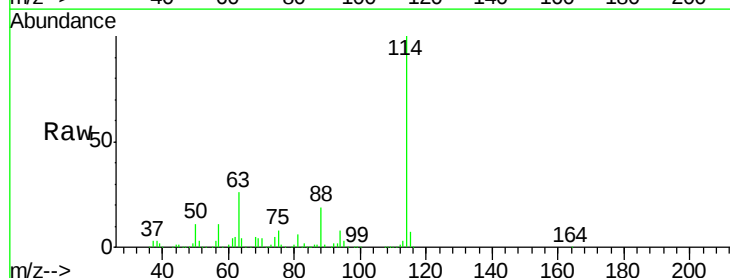
Time-->



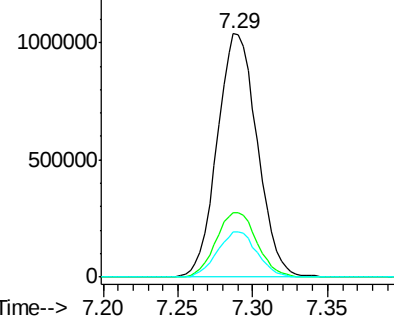
#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

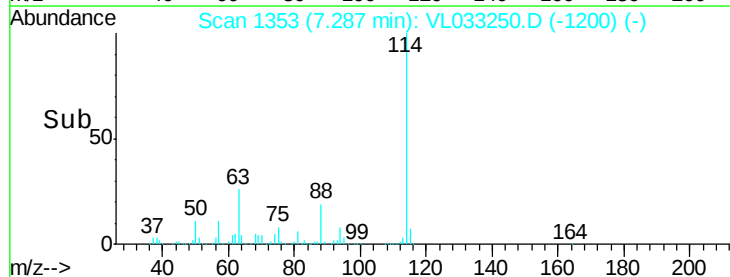
Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.2	22.0	33.0
88	18.6	15.0	22.4

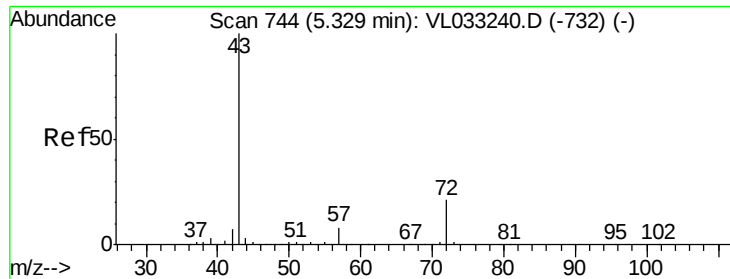


Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



Time-->





#34

2-Butanone

Concen: 0.003 ppbv

RT: 5.35 min Scan# 749

Delta R.T. 0.02 min

Lab File: VL033250.D

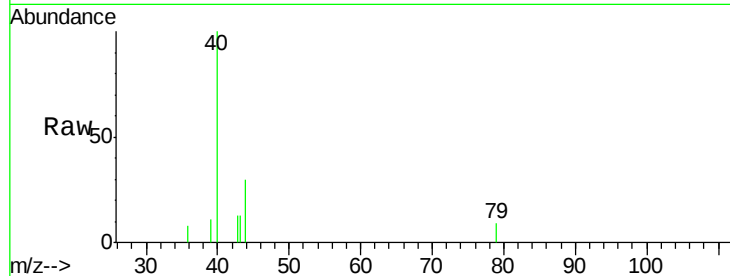
Acq: 6 Mar 2019 10:27

Tot Ion: 43 Resp: 463

Ion Ratio Lower Upper

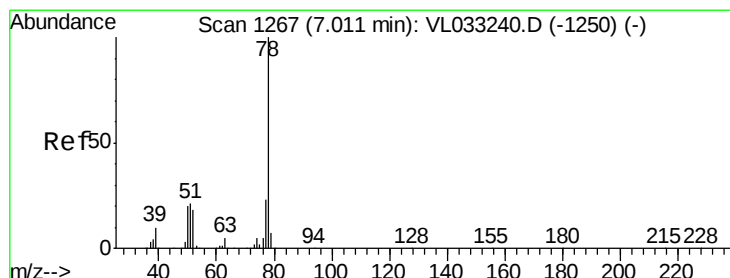
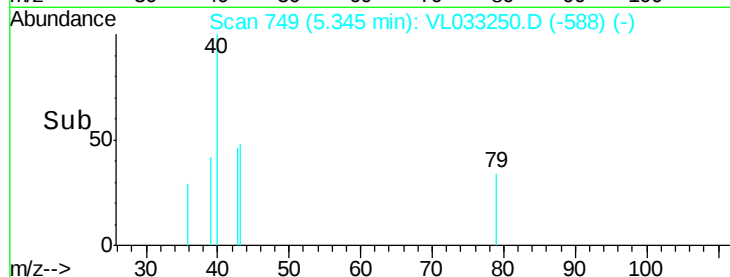
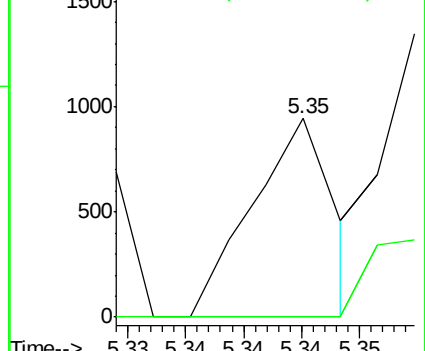
43 100

72 0.0 17.1 25.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.002 ppbv

RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

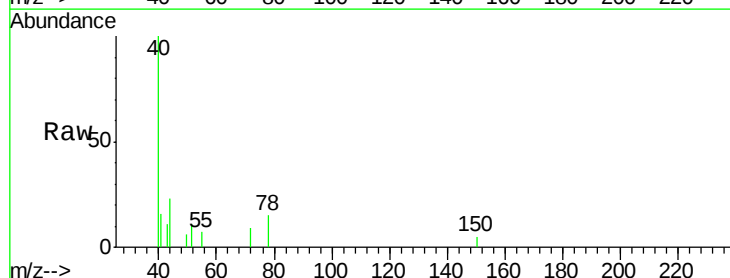
Tgt Ion: 78 Resp: 280

Ion Ratio Lower Upper

78 100

77 100.0 18.0 27.0#

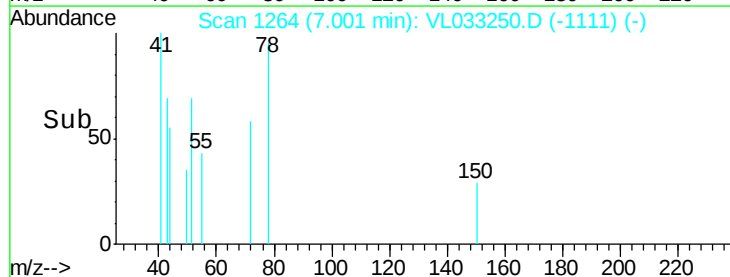
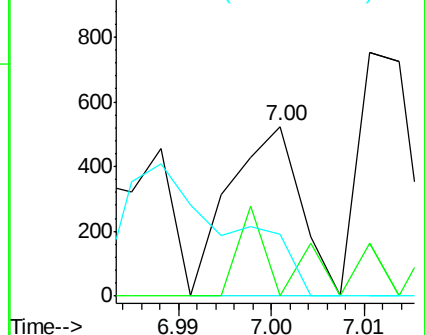
50 0.0 16.2 24.4#

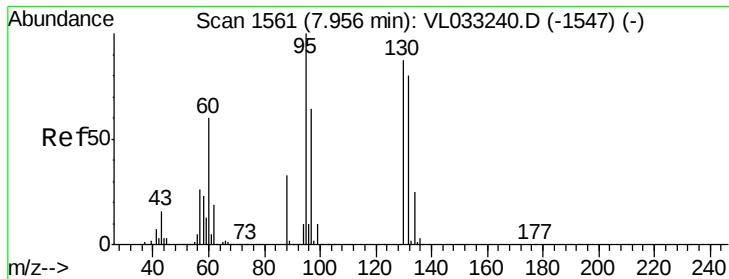


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

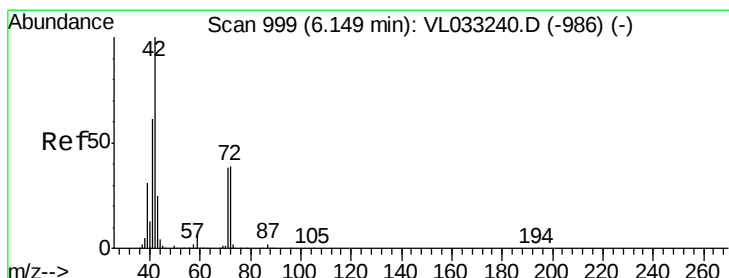
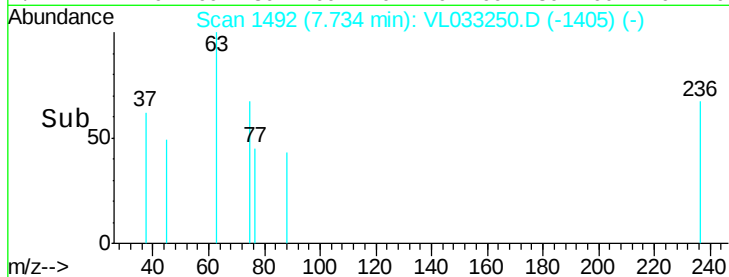
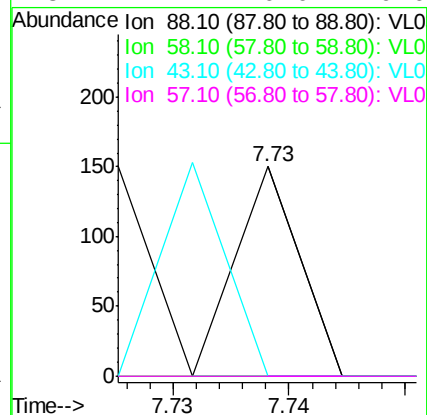
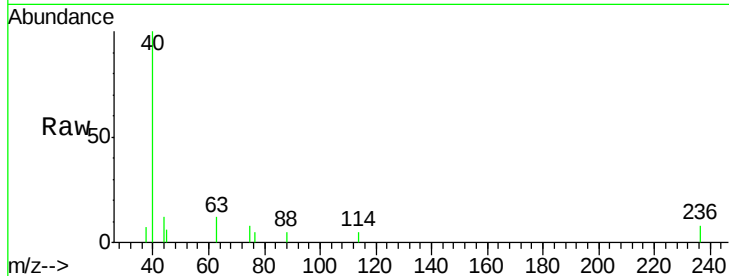
Ion 50.10 (49.80 to 50.80): VL0





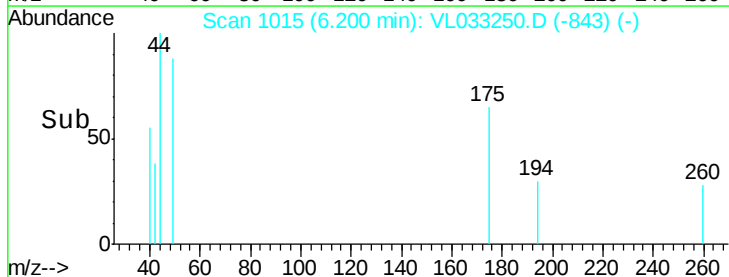
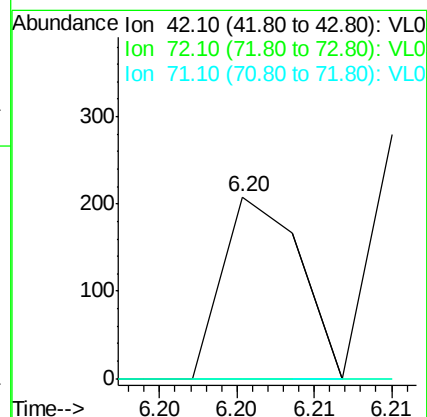
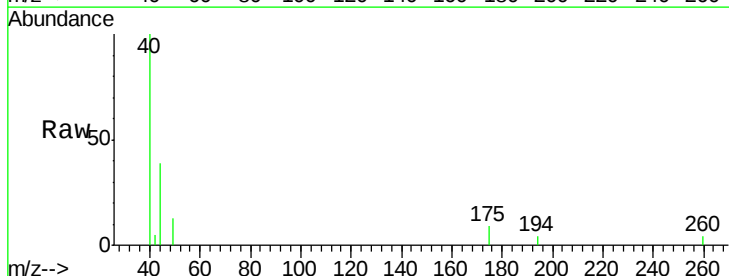
#40
1,4-Dioxane
Concen: 0.001 ppbv
RT: 7.73 min Scan# 1492
Delta R.T. -0.22 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

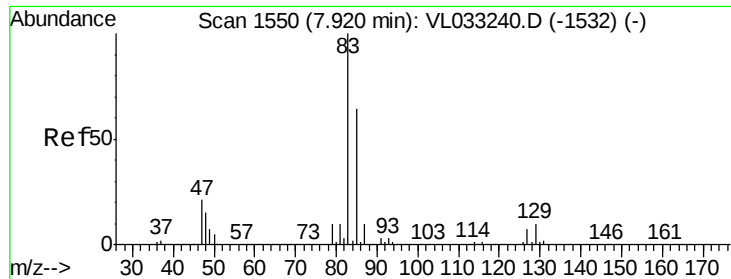
Tot Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
58 0.0 105.1 157.7#
43 410.3 0.0 0.0#
57 241.4 0.0 0.0#



#41
Tetrahydrofuran
Concen: 0.001 ppbv
RT: 6.20 min Scan# 1015
Delta R.T. 0.05 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tgt Ion: 42 Resp: 72
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.4#
71 86.1 29.6 44.4#





#42

Bromodichloromethane

Concen: 0.000 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.02 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

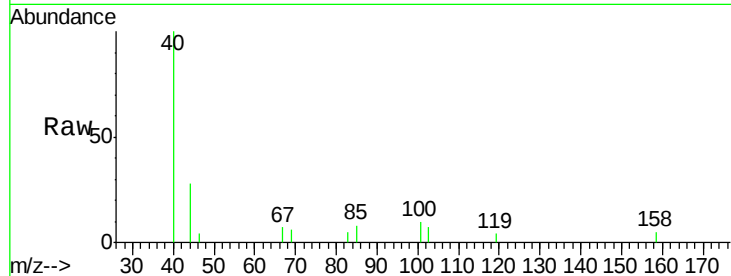
Tot Ion: 83 Resp: 63

Ion Ratio Lower Upper

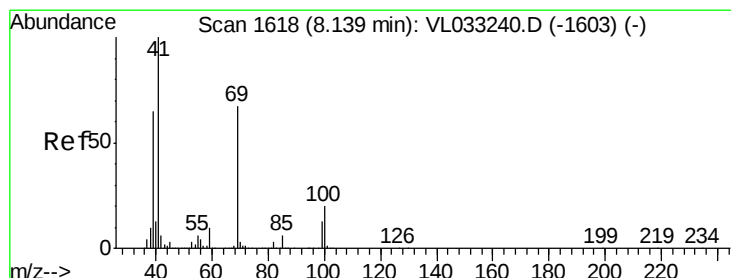
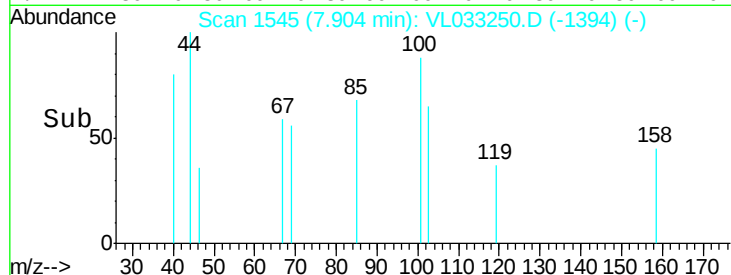
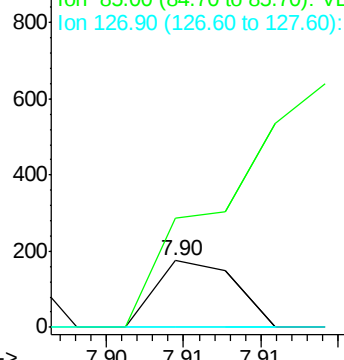
83 100

85 164.6 51.5 77.3#

127 0.0 5.9 8.9#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#43

Methyl Methacrylate

Concen: 0.001 ppbv

RT: 8.19 min Scan# 1635

Delta R.T. 0.05 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

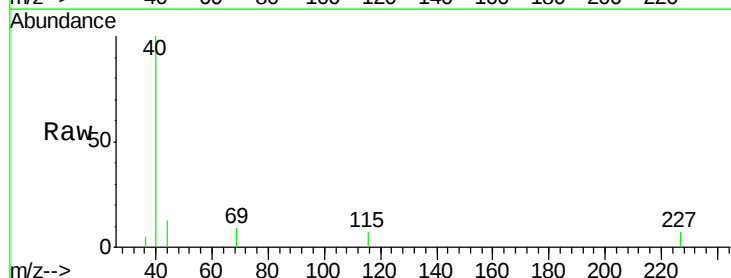
Tgt Ion: 69 Resp: 98

Ion Ratio Lower Upper

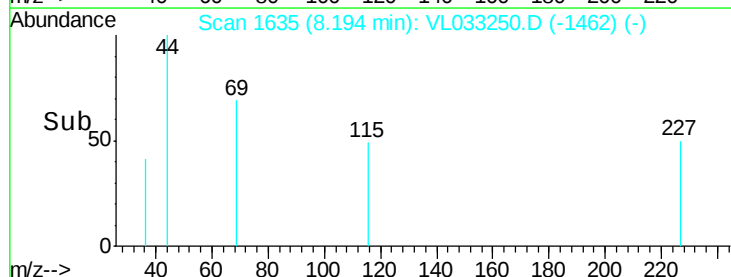
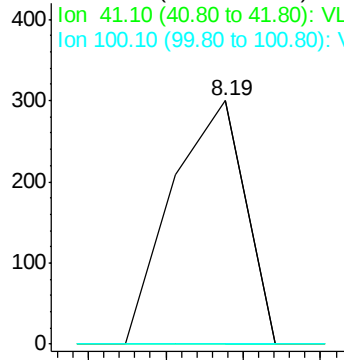
69 100

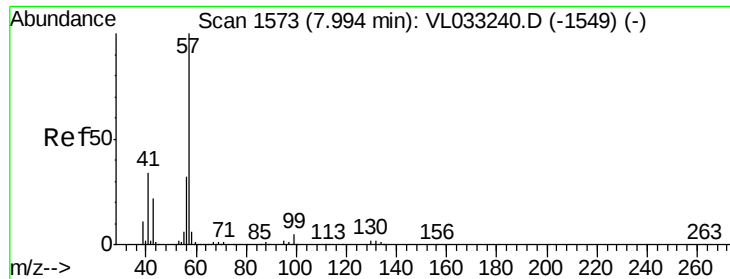
41 37.8 120.9 181.3#

100 0.0 24.4 36.6#



Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL





#44

2,2,4-Trimethylpentane

Concen: 0.000 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

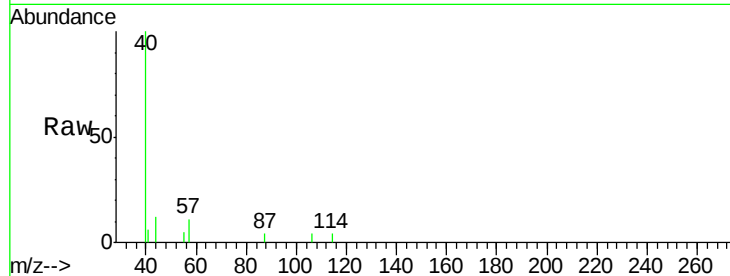
Tot Ion: 57 Resp: 87

Ion Ratio Lower Upper

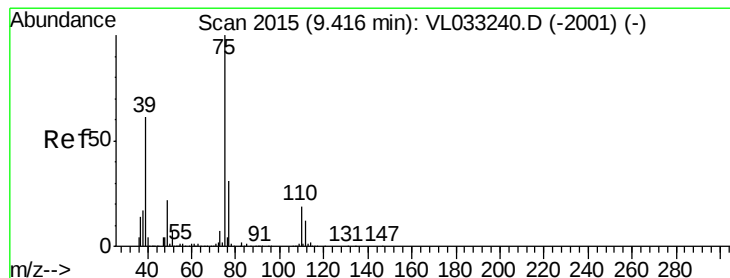
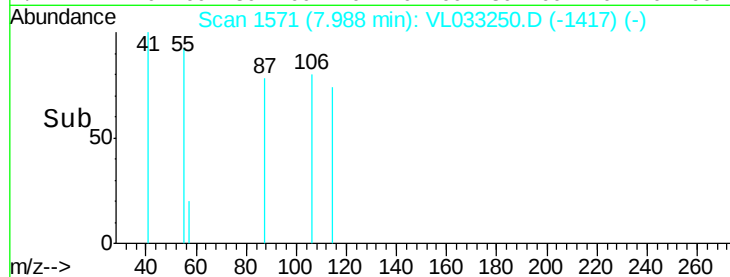
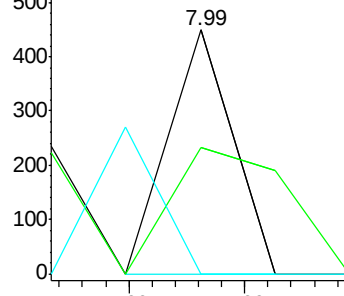
57 100

41 0.0 26.1 39.1#

56 59.8 24.7 37.1#



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



#45

t-1,3-Dichloropropene

Concen: 0.001 ppbv

RT: 9.41 min Scan# 2013

Delta R.T. -0.01 min

Lab File: VL033250.D

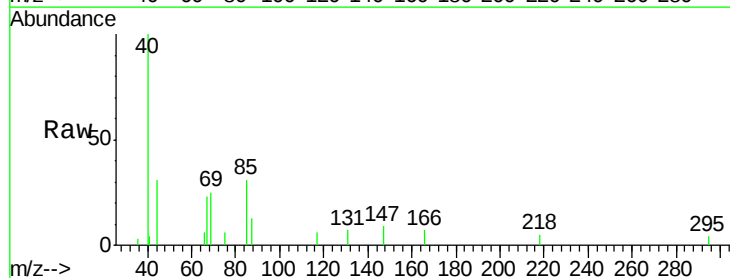
Acq: 6 Mar 2019 10:27

Tgt Ion: 75 Resp: 88

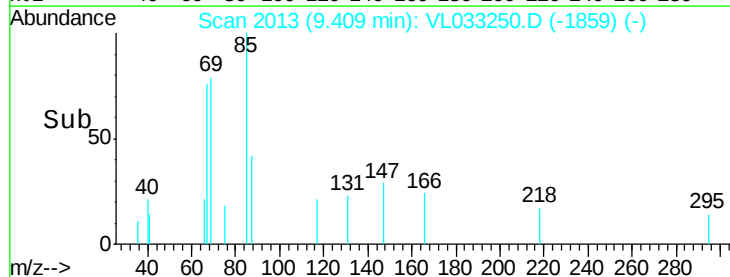
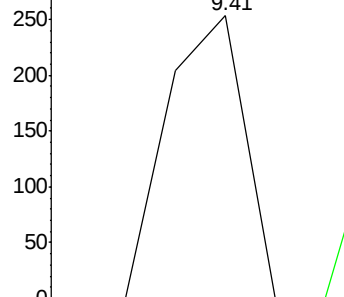
Ion Ratio Lower Upper

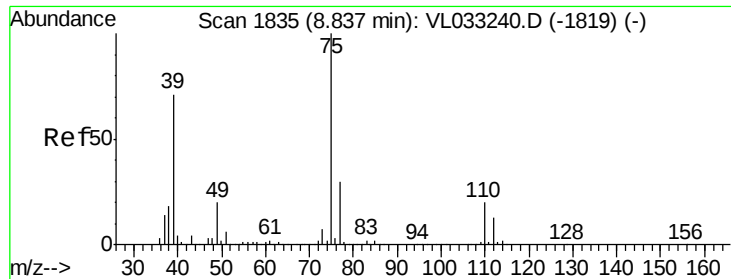
75 100

77 0.0 24.7 37.1#



Abundance Ion 75.10 (74.80 to 75.80): VL0
Ion 77.10 (76.80 to 77.80): VL0

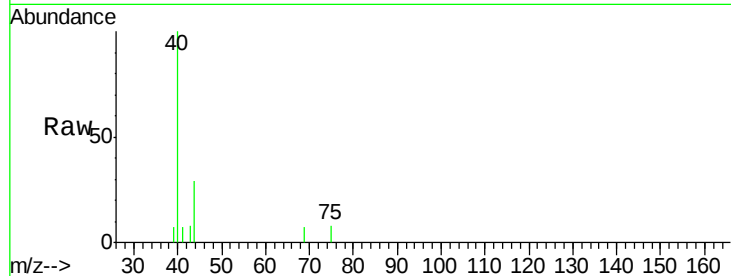




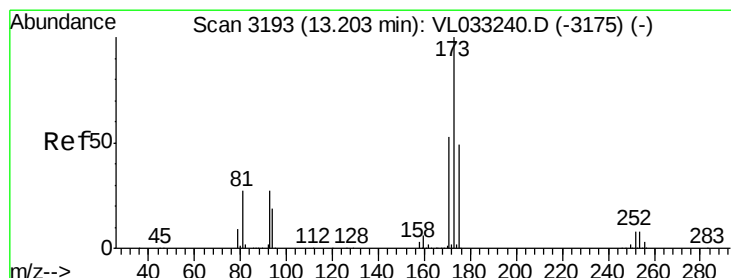
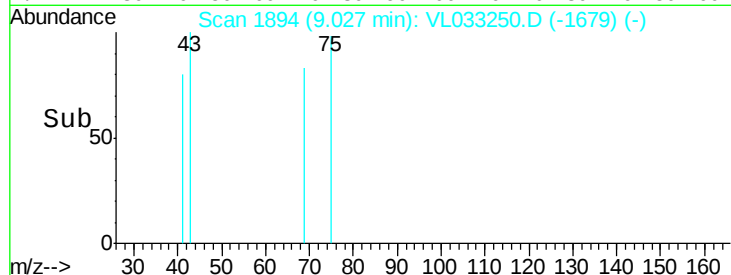
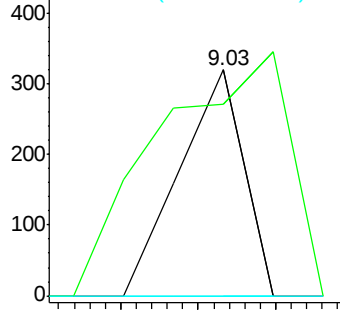
#46

cis-1,3-Dichloropropene
 Concen: 0.001 ppbv
 RT: 9.03 min Scan# 1894
 Delta R.T. 0.19 min
 Lab File: VL033250.D
 Acq: 6 Mar 2019 10:27

Tot Ion	Ratio	Lower	Upper
75	100		
39	33.4	57.0	85.6#
77	0.0	24.0	36.0#



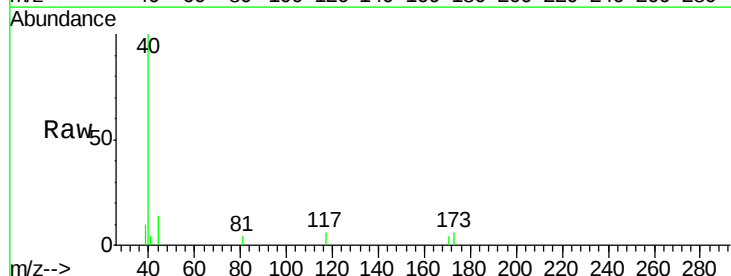
Abundance Ion 75.00 (74.70 to 75.70): VL0
 Ion 39.00 (38.70 to 39.70): VL0
 Ion 77.00 (76.70 to 77.70): VL0



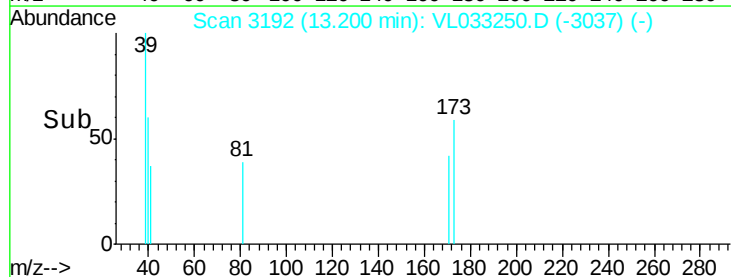
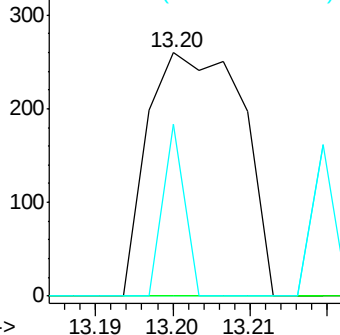
#49

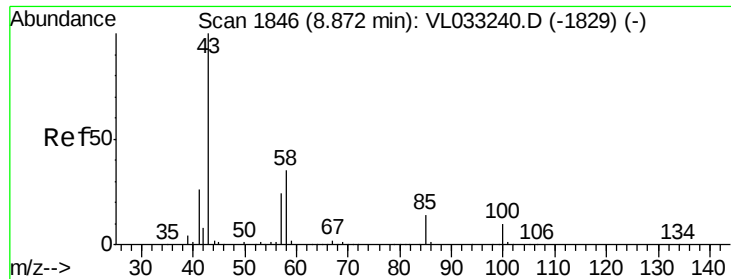
Bromoform
 Concen: 0.002 ppbv
 RT: 13.20 min Scan# 3192
 Delta R.T. -0.00 min
 Lab File: VL033250.D
 Acq: 6 Mar 2019 10:27

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	38.9	58.3#
171	13.1	41.4	62.0#



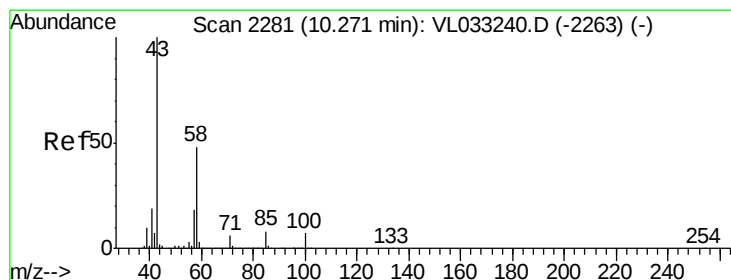
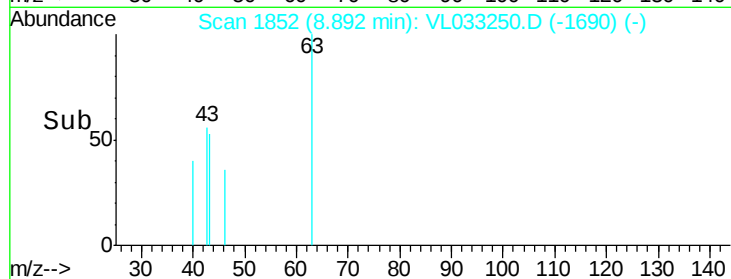
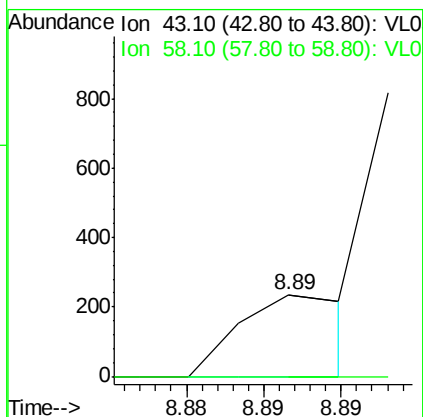
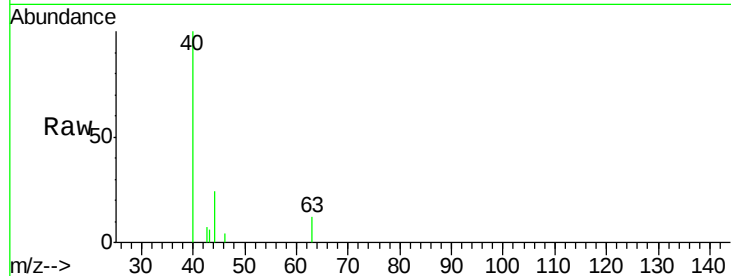
Abundance Ion 172.90 (172.60 to 173.60): V
 Ion 174.90 (174.60 to 175.60): V
 Ion 170.90 (170.60 to 171.60): V





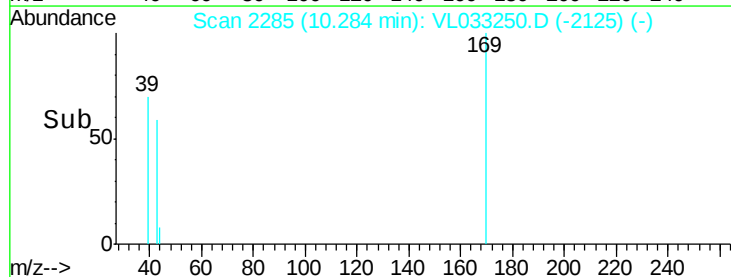
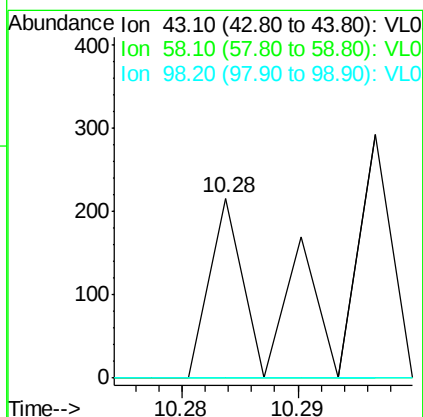
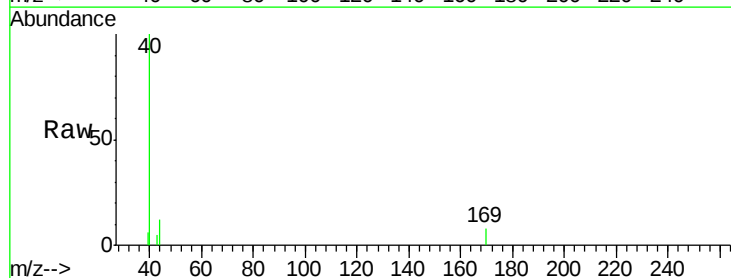
#50
4-Methyl-2-Pentanone
Concen: 0.001 ppbv
RT: 8.89 min Scan# 1852
Delta R.T. 0.02 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

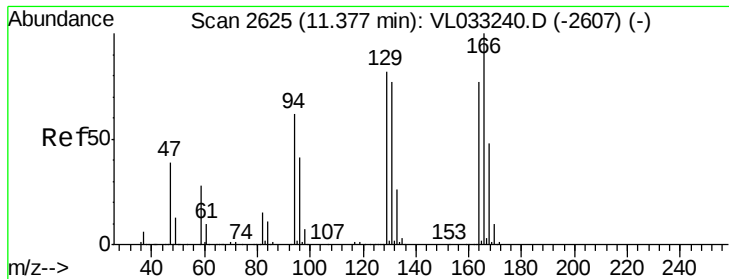
Tot Ion: 43 Resp: 117
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.6#



#51
2-Hexanone
Concen: 0.000 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.01 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tgt Ion: 43 Resp: 74
Ion Ratio Lower Upper
43 100
58 0.0 38.2 57.2#
98 0.0 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.002 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

Tot Ion: 164 Resp: 163

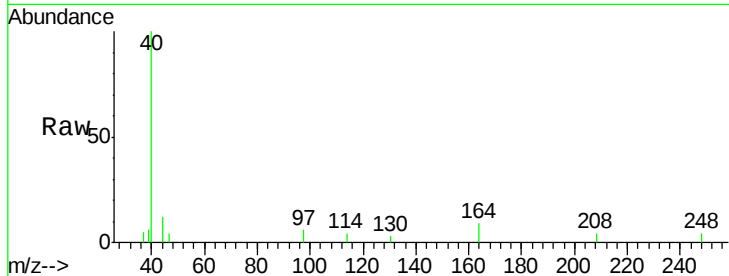
Ion Ratio Lower Upper

164 100

166 0.0 103.3 154.9#

129 0.0 84.4 126.6#

131 0.0 79.4 119.0#

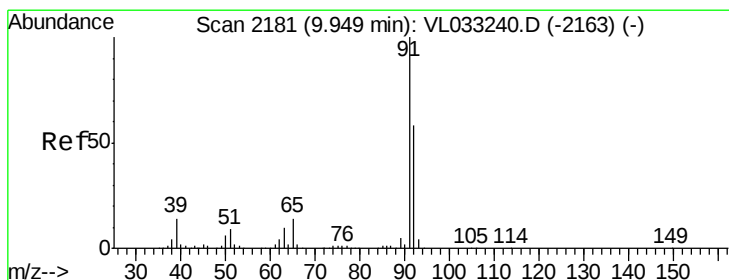
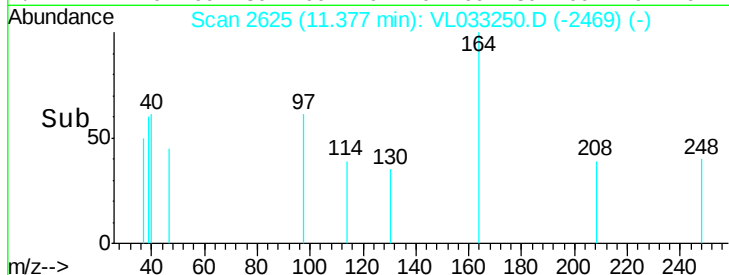
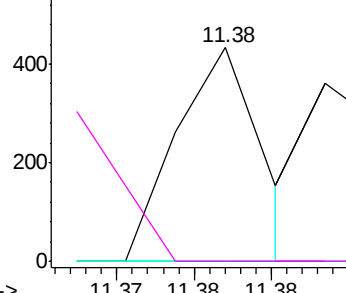


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.001 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033250.D

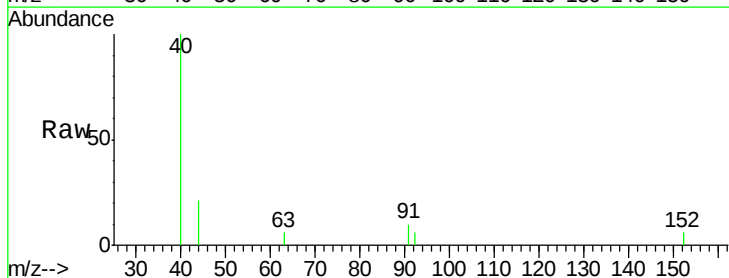
Acq: 6 Mar 2019 10:27

Tgt Ion: 91 Resp: 105

Ion Ratio Lower Upper

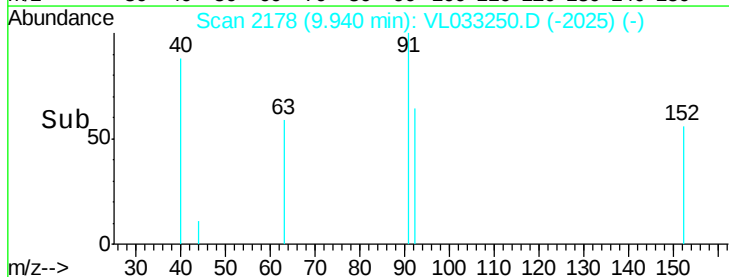
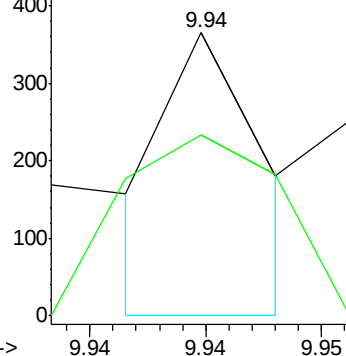
91 100

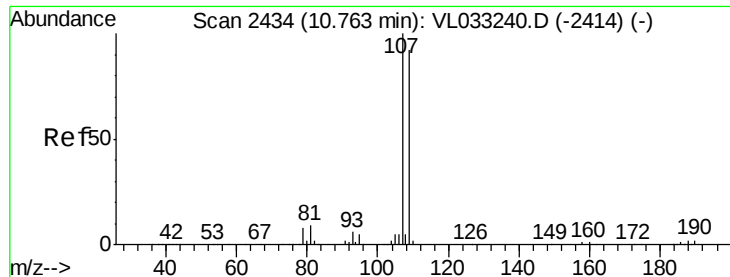
92 142.9 47.4 71.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033250.D

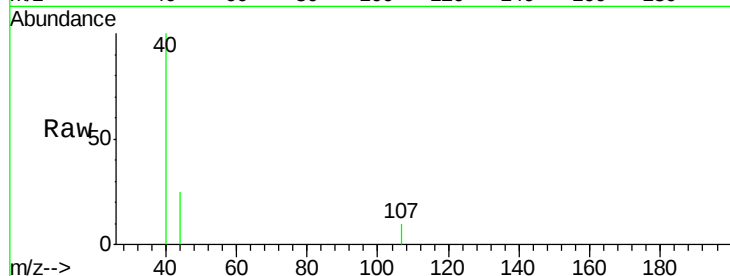
Acq: 6 Mar 2019 10:27

Tot Ion:107 Resp: 98

Ion Ratio Lower Upper

107 100

109 0.0 73.6 110.4#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.76

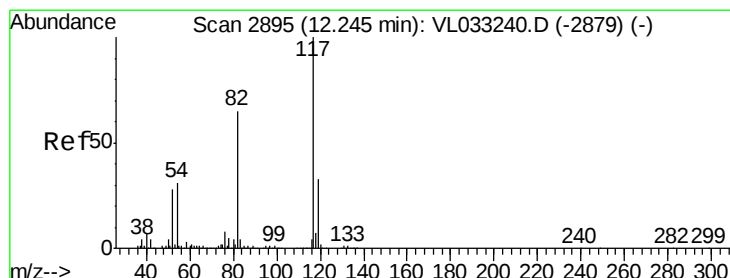
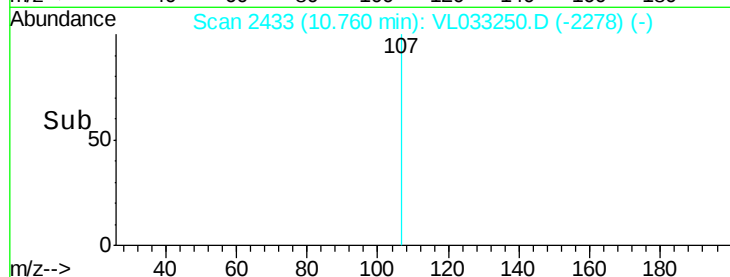
300

200

100

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

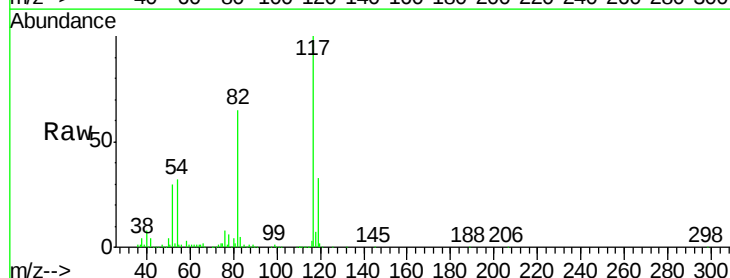
Tgt Ion:117 Resp: 1944750

Ion Ratio Lower Upper

117 100

82 68.1 51.8 77.8

119 32.3 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

12.24

1200000

1000000

800000

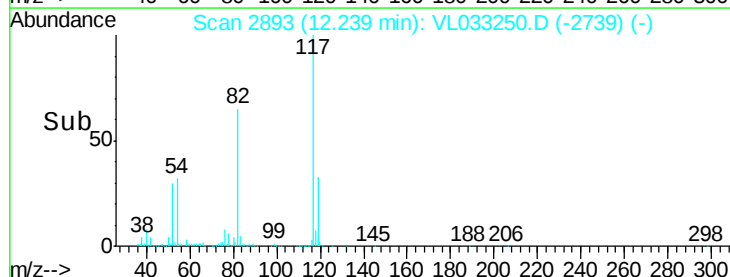
600000

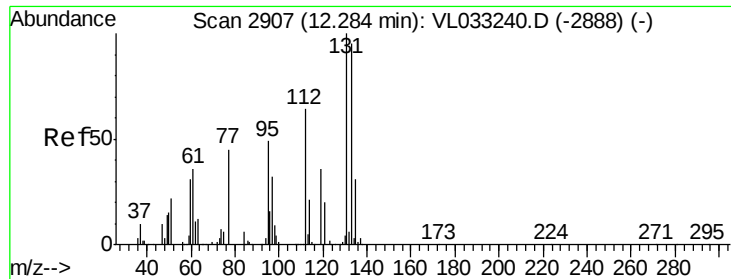
400000

200000

0

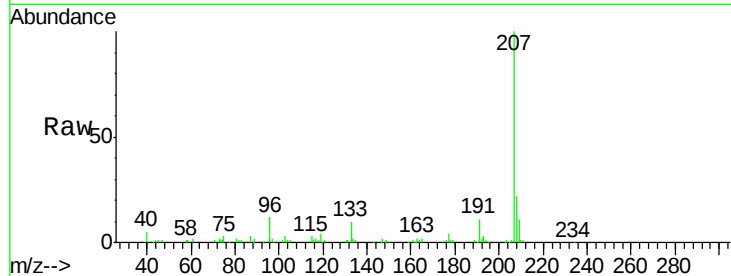
Time-->



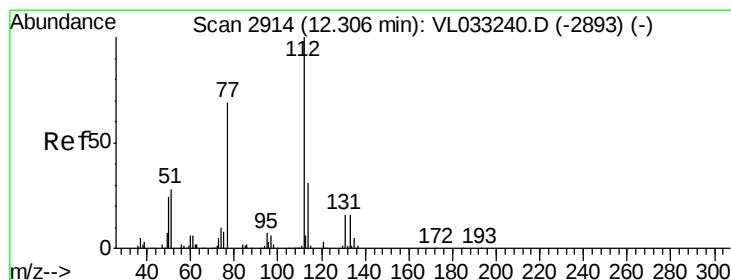
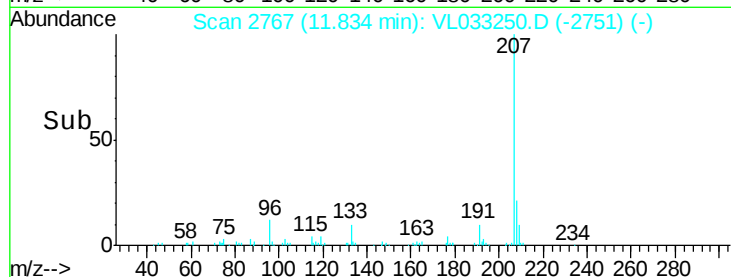
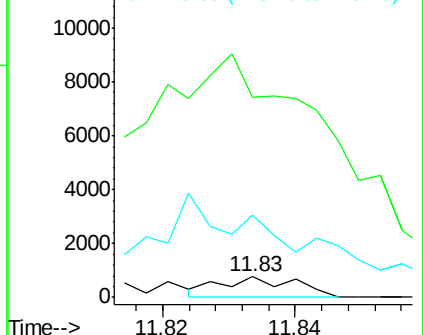


#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.007 ppbv
 RT: 11.83 min Scan# 2767
 Delta R.T. -0.45 min
 Lab File: VL033250.D
 Acq: 6 Mar 2019 10:27

Tot Ion:131 Resp: 605
 Ion Ratio Lower Upper
 131 100
 133 3483.3 76.2 114.2#
 119 0.0 108.9 163.3#

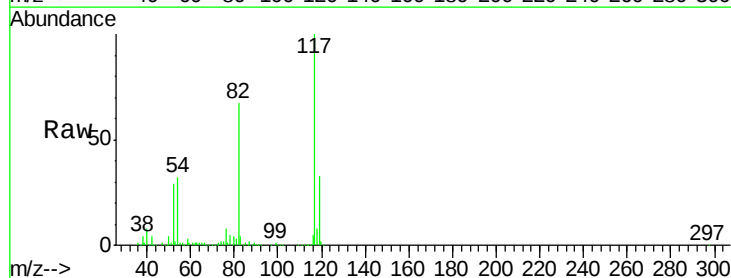


Abundance Ion 131.00 (130.70 to 131.70): V
 Ion 133.00 (132.70 to 133.70): V
 Ion 119.00 (118.70 to 119.70): V

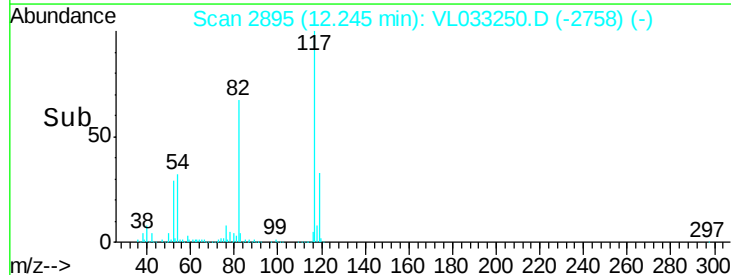
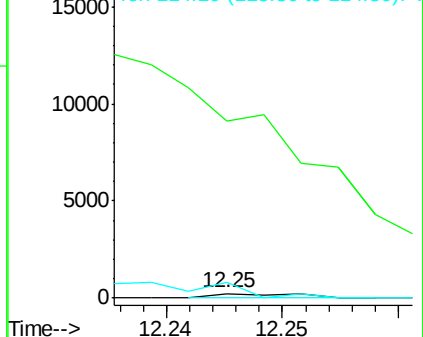


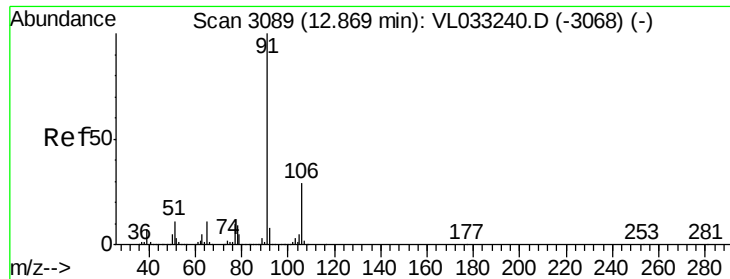
#57
 Chlorobenzene
 Concen: 0.001 ppbv
 RT: 12.25 min Scan# 2895
 Delta R.T. -0.06 min
 Lab File: VL033250.D
 Acq: 6 Mar 2019 10:27

Tgt Ion:112 Resp: 119
 Ion Ratio Lower Upper
 112 100
 77 1016.7 56.5 84.7#
 114 344.0 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





#58

Ethyl Benzene

Concen: 0.001 ppbv

RT: 12.86 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL033250.D

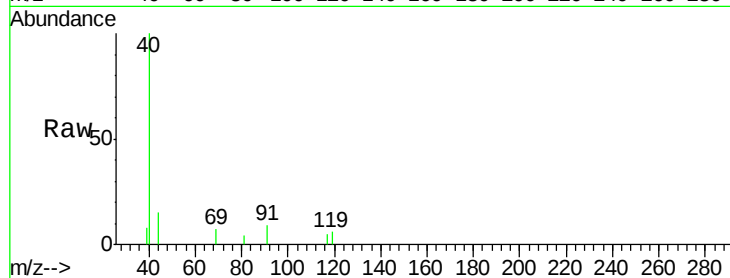
Acq: 6 Mar 2019 10:27

Tot Ion: 91 Resp: 152

Ion Ratio Lower Upper

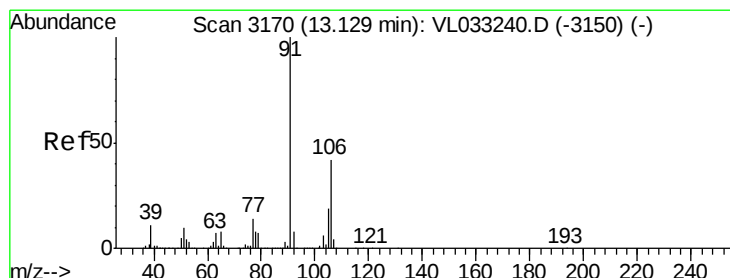
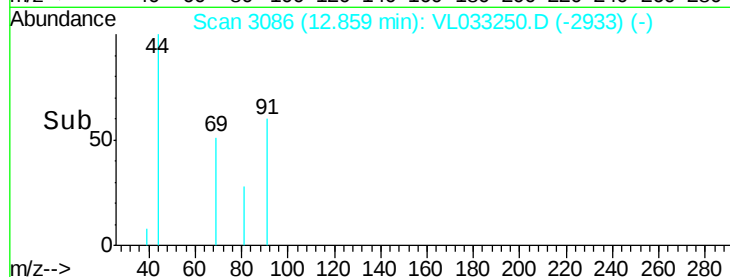
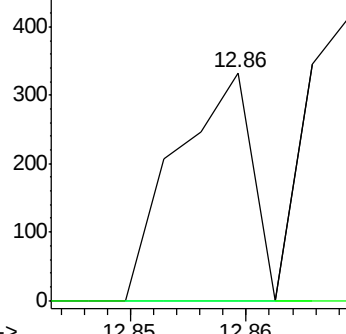
91 100

106 0.0 23.5 35.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.001 ppbv

RT: 13.13 min Scan# 3171

Delta R.T. 0.00 min

Lab File: VL033250.D

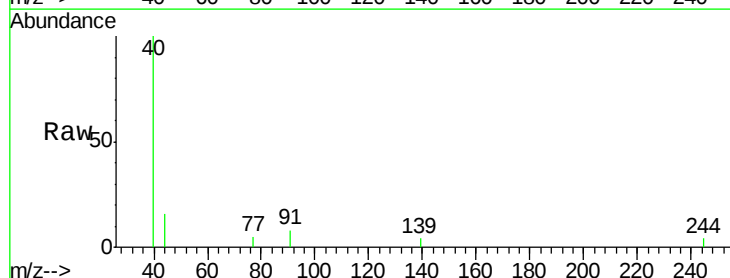
Acq: 6 Mar 2019 10:27

Tgt Ion: 91 Resp: 160

Ion Ratio Lower Upper

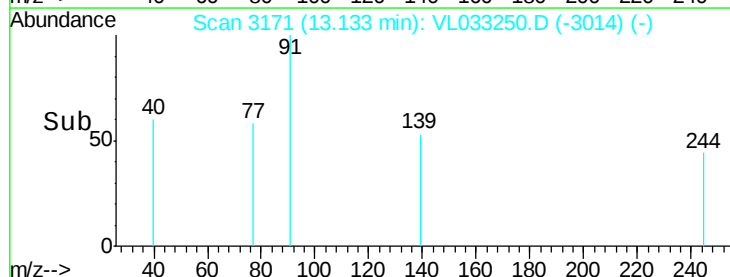
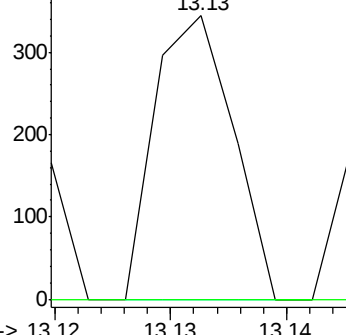
91 100

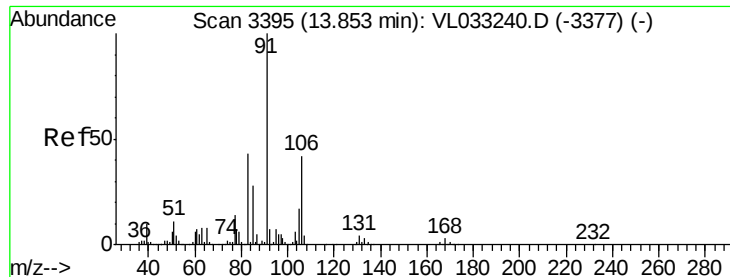
106 0.0 35.6 53.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

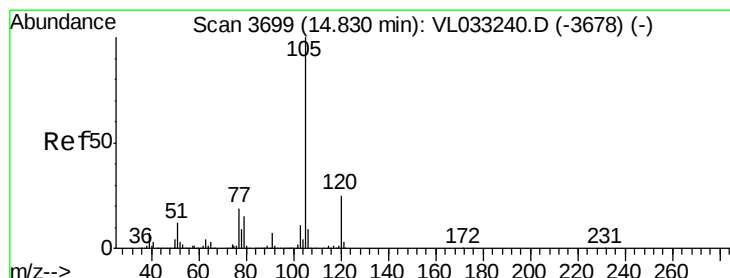
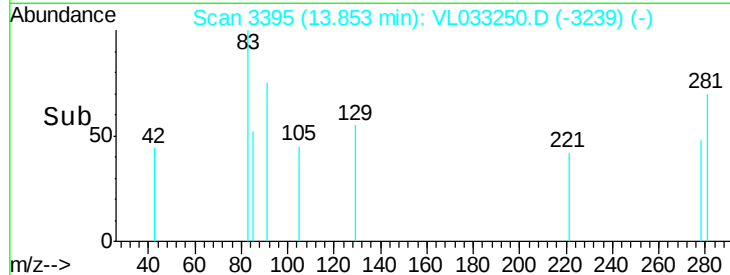
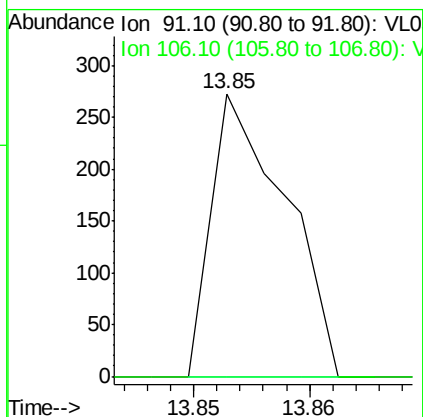
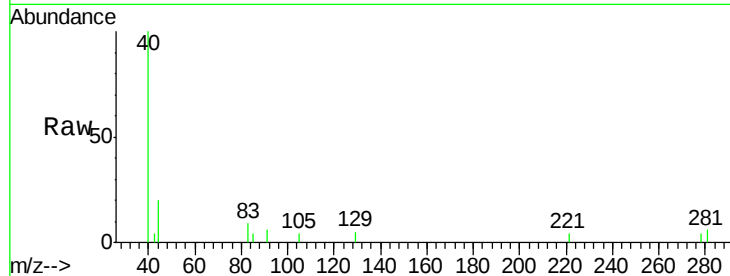
Ion 106.10 (105.80 to 106.80): V





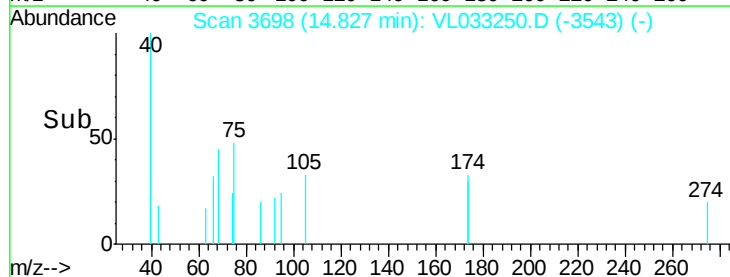
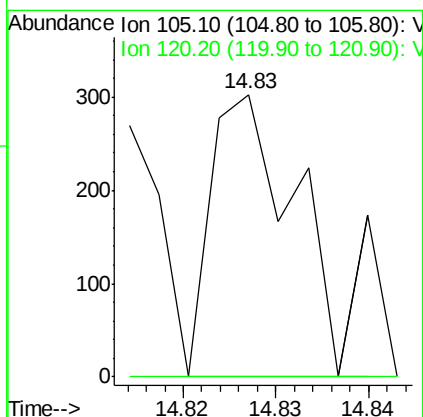
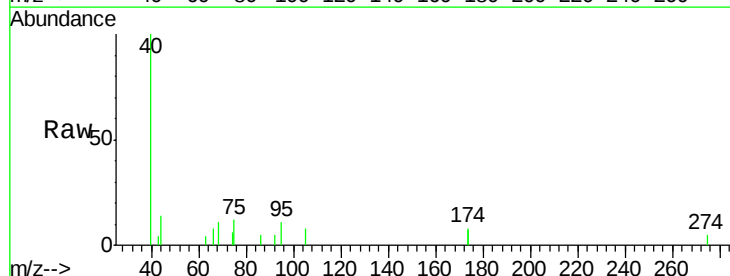
#60
o-Xylene
Concen: 0.001 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

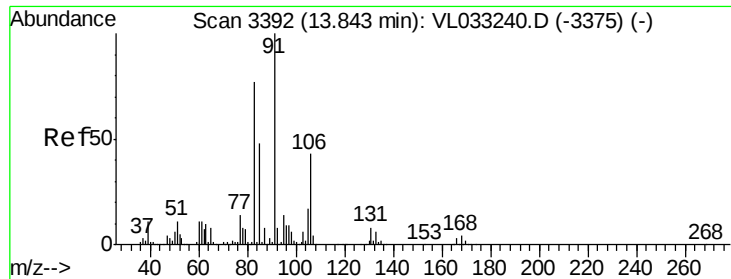
Tot Ion: 91 Resp: 121
Ion Ratio Lower Upper
91 100
106 0.0 21.4 64.3#



#62
Isopropylbenzene
Concen: 0.001 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tgt Ion: 105 Resp: 188
Ion Ratio Lower Upper
105 100
120 0.0 20.1 30.1#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.001 ppbv

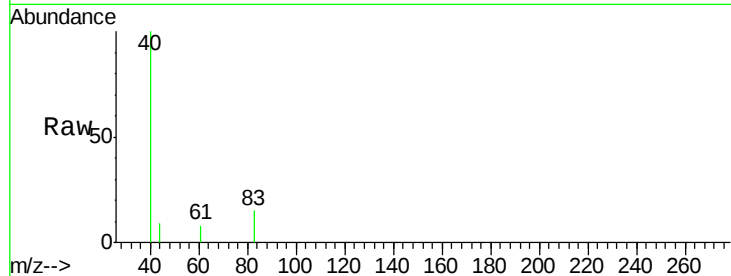
RT: 13.84 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

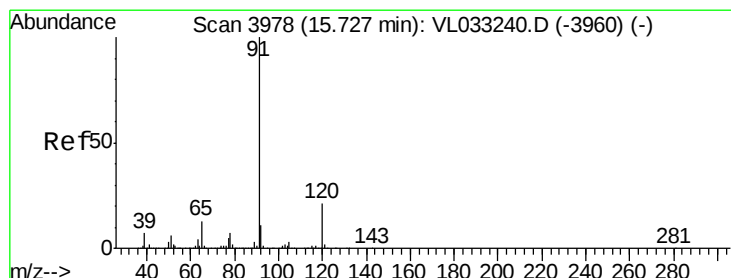
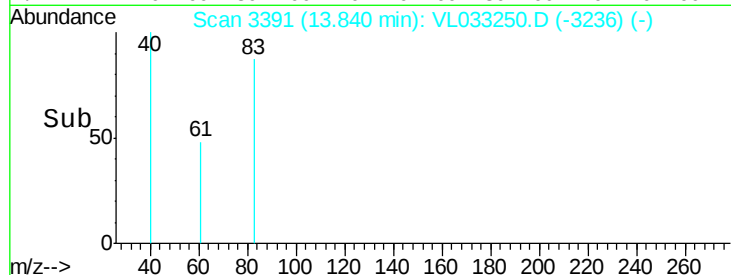
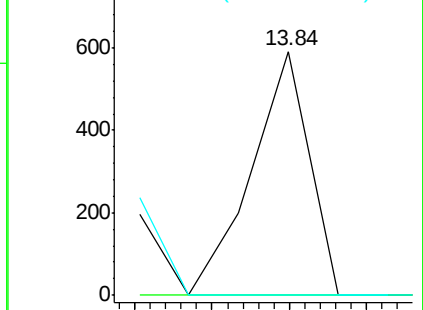
Tot Ion:	83	Resp:	153
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.7	14.0#
85	0.0	32.6	97.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.001 ppbv

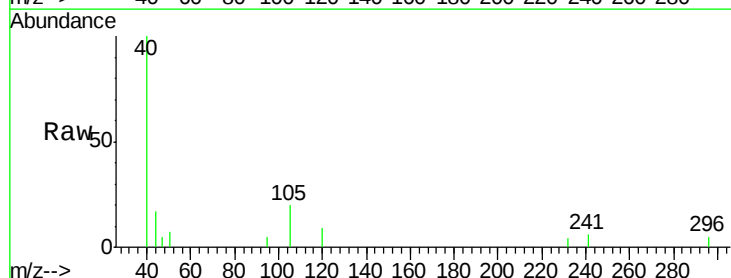
RT: 16.17 min Scan# 4116

Delta R.T. 0.44 min

Lab File: VL033250.D

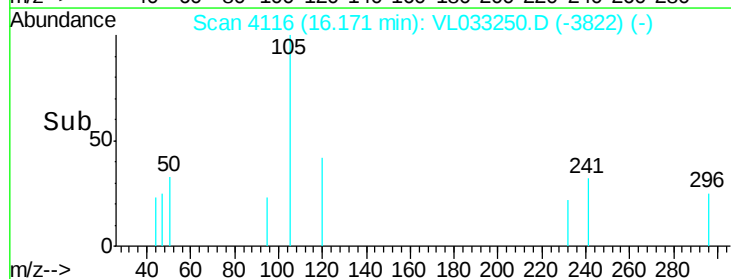
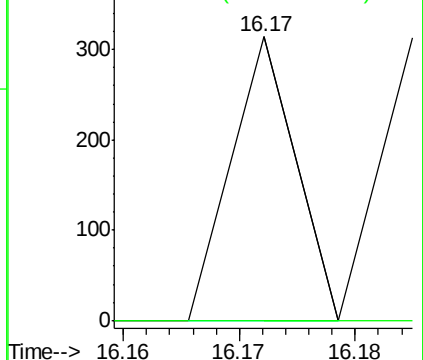
Acq: 6 Mar 2019 10:27

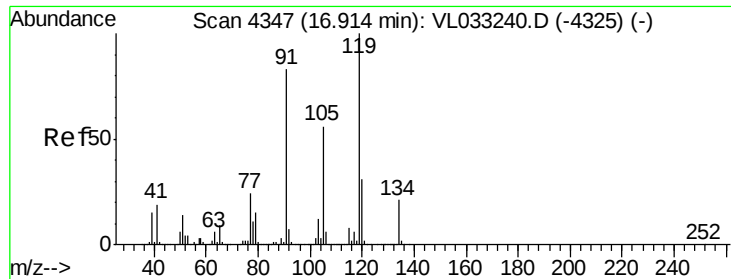
Tgt Ion:	120	Resp:	61
Ion	Ratio	Lower	Upper
120	100		
91	283.6	392.2	588.4#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.001 ppbv

RT: 16.91 min Scan# 4347

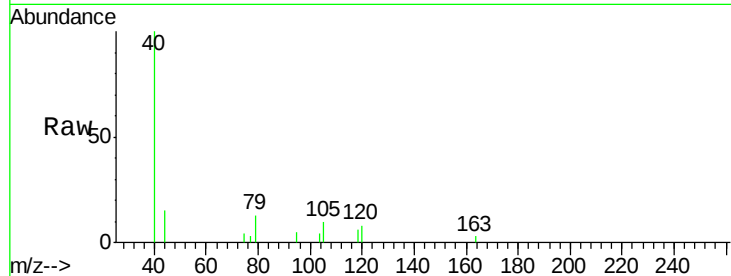
Delta R.T. 0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

Tot Ion: 119 Resp: 162

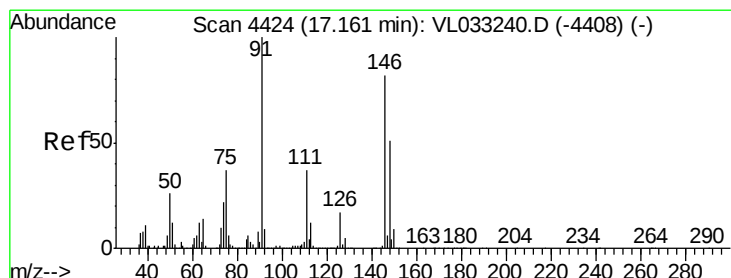
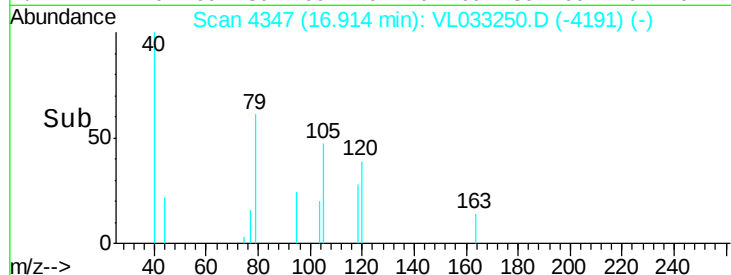
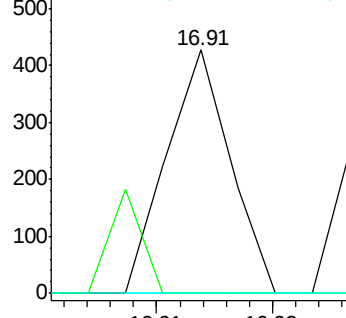
Ion	Ratio	Lower	Upper
119	100		
91	21.6	67.0	100.4#
134	0.0	15.4	23.2#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.001 ppbv

RT: 17.15 min Scan# 4419

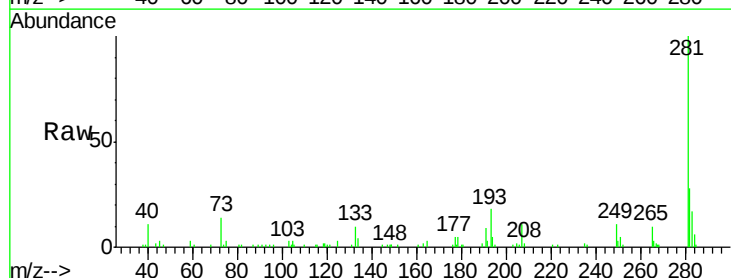
Delta R.T. -0.02 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

Tgt Ion: 91 Resp: 51

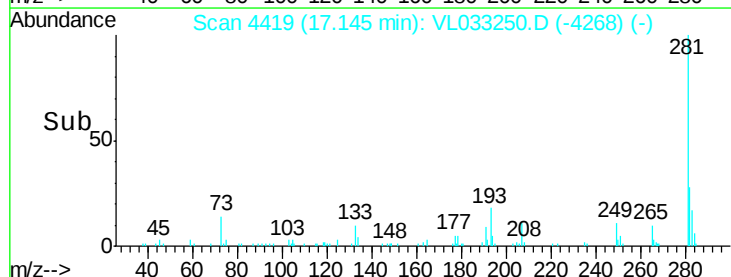
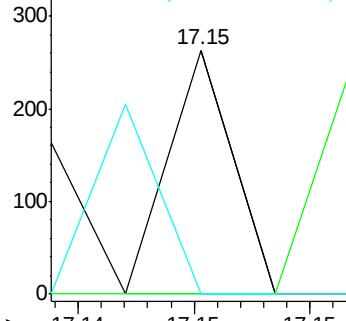
Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.4	20.0#
128	0.0	4.2	6.2#

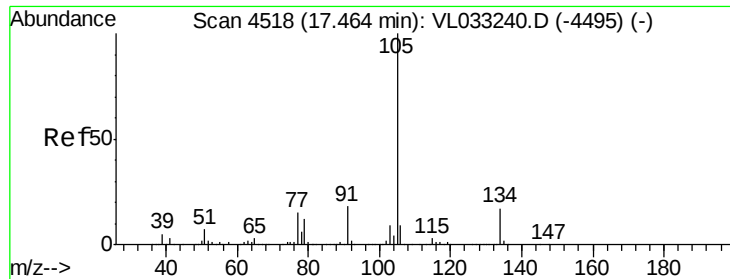


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.000 ppbv

RT: 17.45 min Scan# 4513

Delta R.T. -0.02 min

Lab File: VL033250.D

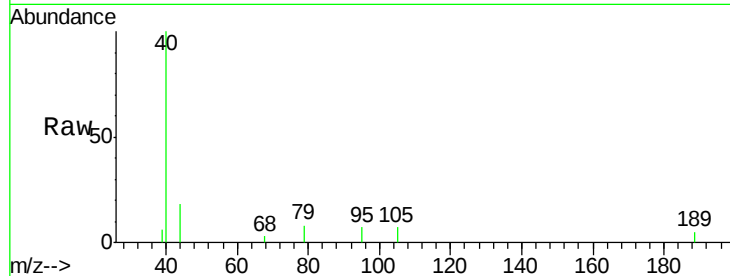
Acq: 6 Mar 2019 10:27

Tot Ion: 105 Resp: 144

Ion Ratio Lower Upper

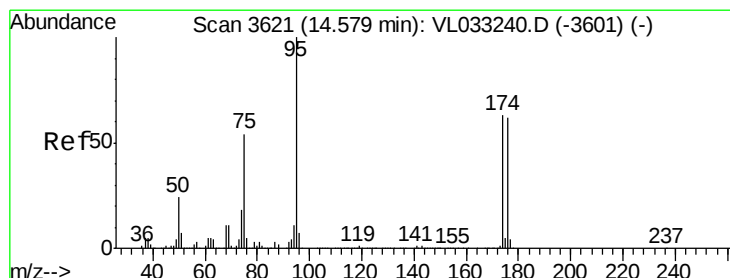
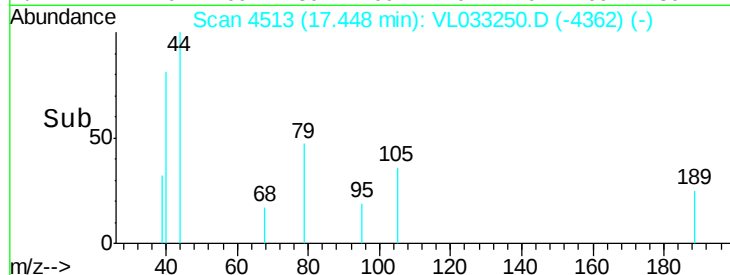
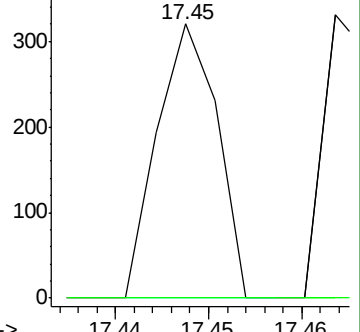
105 100

134 0.0 14.2 21.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.289 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

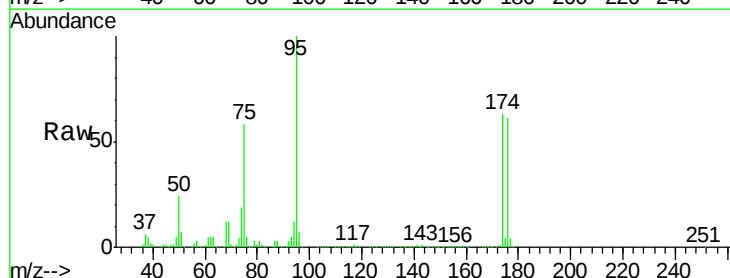
Tgt Ion: 95 Resp: 1518268

Ion Ratio Lower Upper

95 100

174 62.4 51.0 76.4

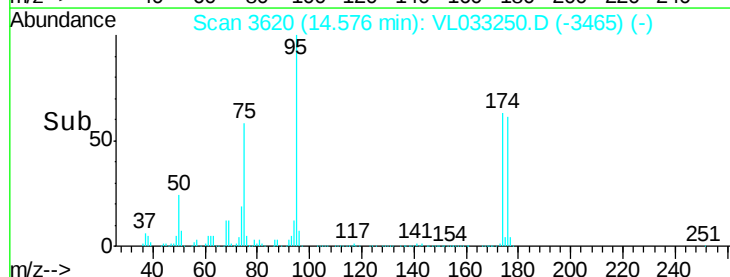
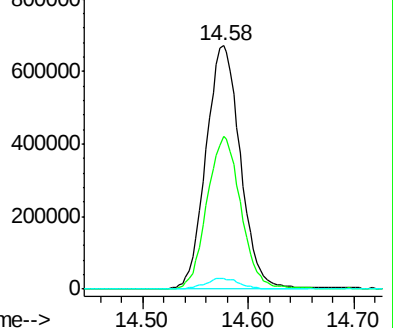
175 4.5 3.8 5.6

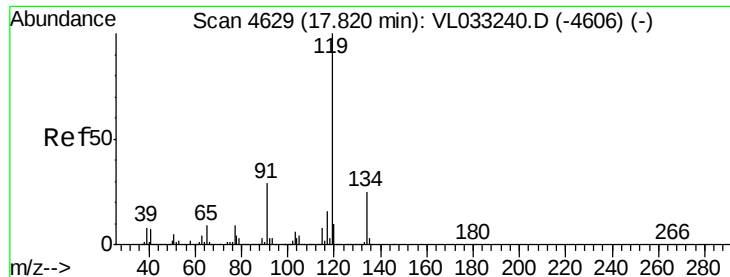


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

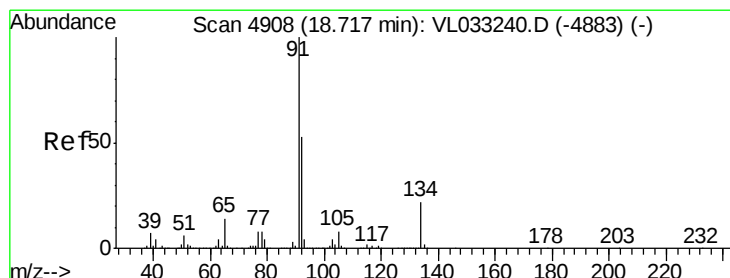
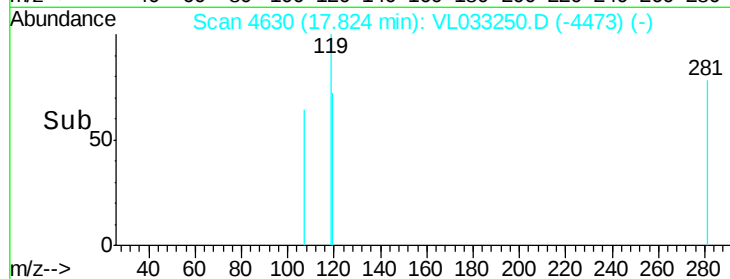
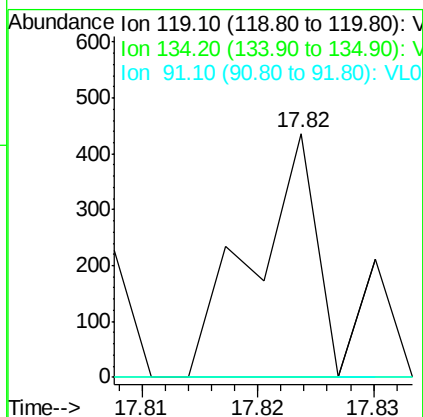
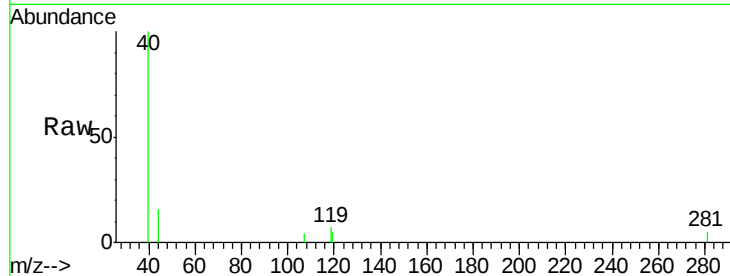
Ion 175.00 (174.70 to 175.70): V





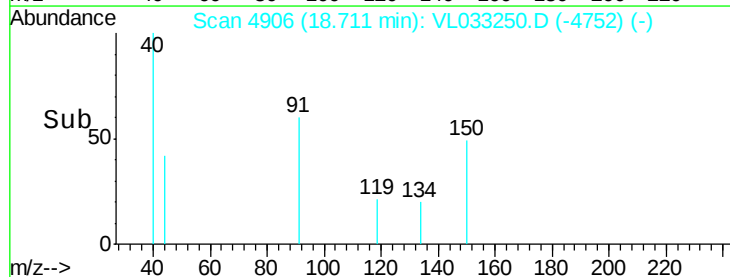
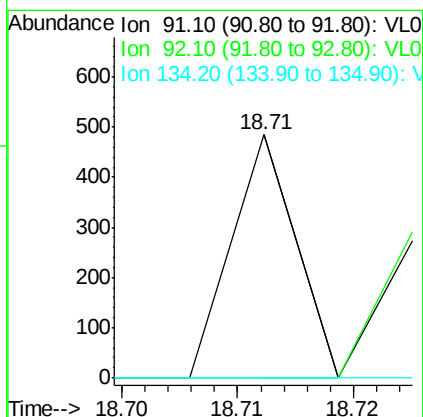
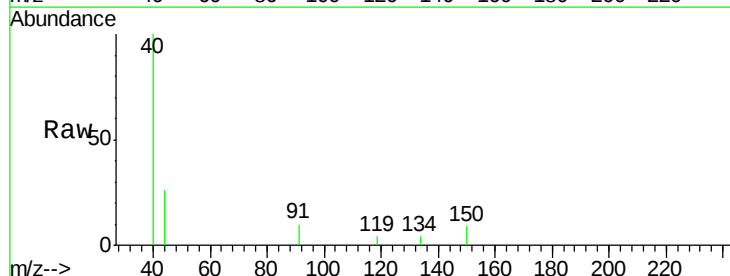
#69
p-Isopropyltoluene
Concen: 0.001 ppbv
RT: 17.82 min Scan# 4630
Delta R.T. 0.00 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

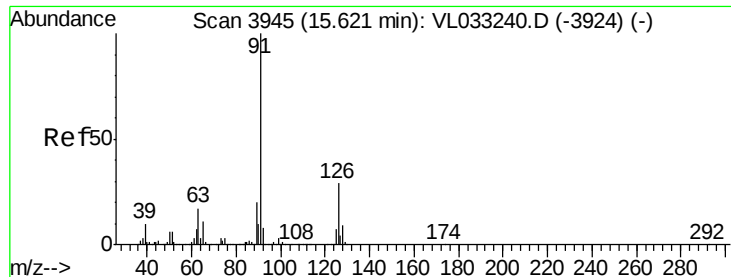
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	19.9	29.9#
91	95.7	23.9	35.9#



#70
n-Butylbenzene
Concen: 0.000 ppbv
RT: 18.71 min Scan# 4906
Delta R.T. -0.01 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	37.2	42.4	63.6#
134	0.0	17.3	25.9#





#71

2-Chlorotoluene

Concen: 0.001 ppbv

RT: 15.61 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL033250.D

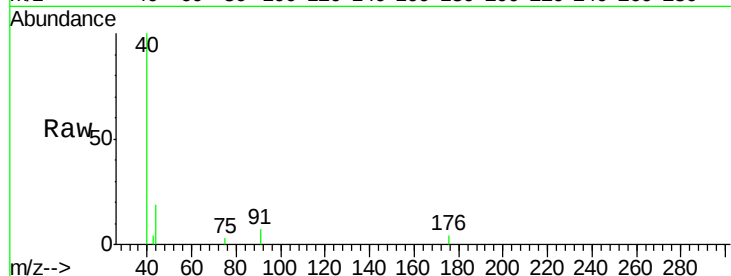
Acq: 6 Mar 2019 10:27

Tot Ion: 91 Resp: 130

Ion Ratio Lower Upper

91 100

126 0.0 11.6 46.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

15.61

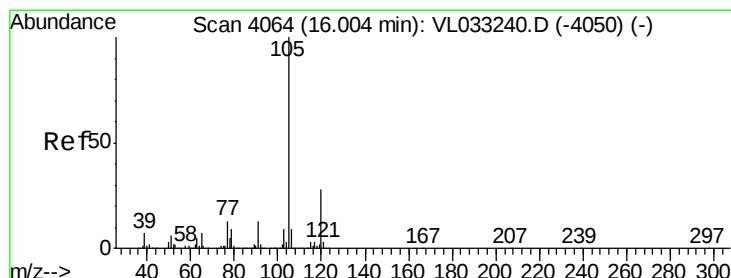
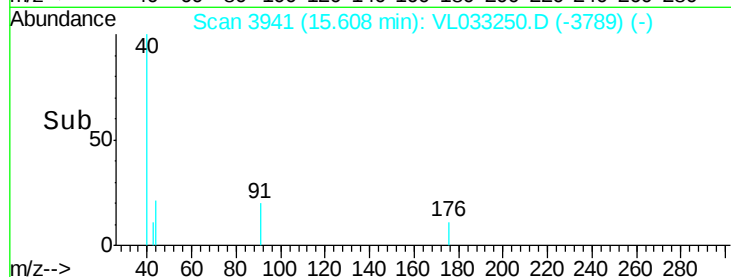
300

200

100

0

Time-->



#72

4-Ethyltoluene

Concen: 0.001 ppbv

RT: 15.94 min Scan# 4044

Delta R.T. -0.06 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

Tgt Ion: 105 Resp: 150

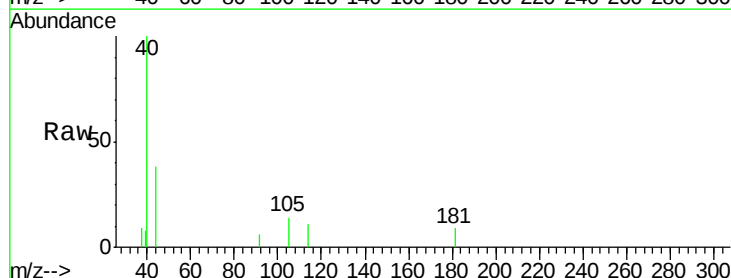
Ion Ratio Lower Upper

105 100

120 20.0 22.3 33.5#

91 22.7 10.3 15.5#

77 0.0 11.3 16.9#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

15.94

400

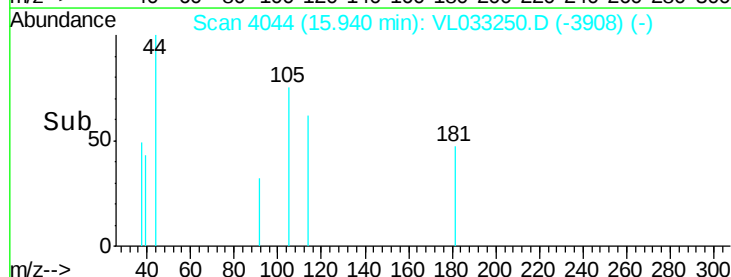
300

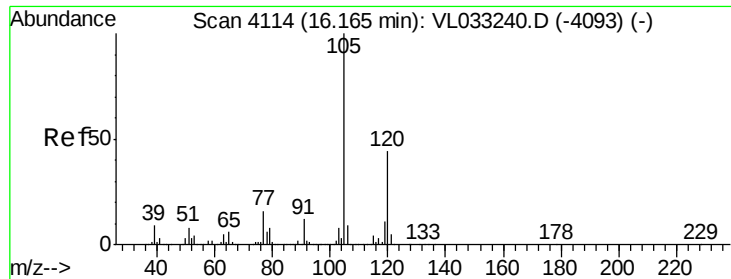
200

100

0

Time-->

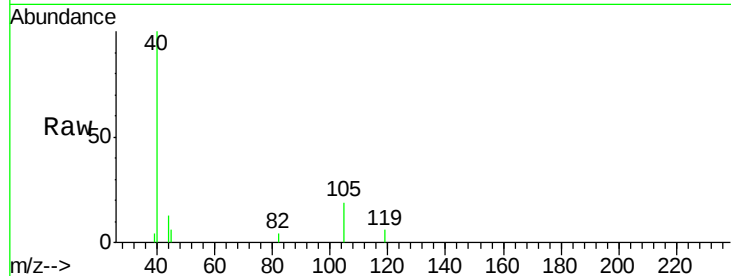




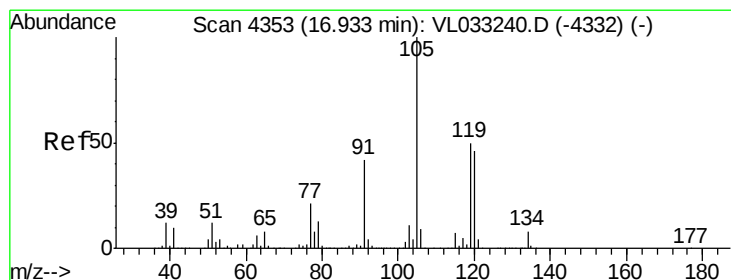
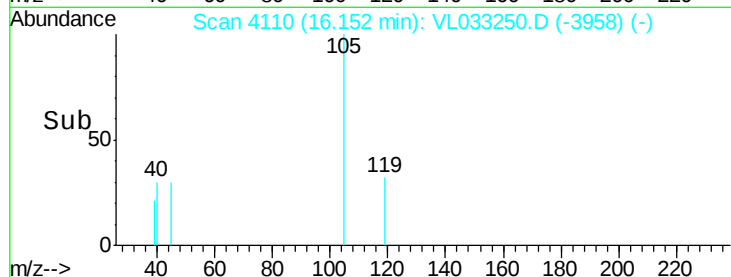
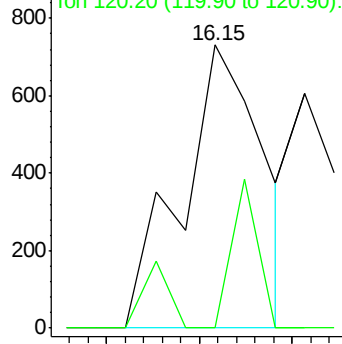
#73

1,3,5-Trimethylbenzene
Concen: 0.002 ppbv
RT: 16.15 min Scan# 4110
Delta R.T. -0.01 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tot Ion:105 Resp: 442
Ion Ratio Lower Upper
105 100
120 0.0 35.0 52.6#



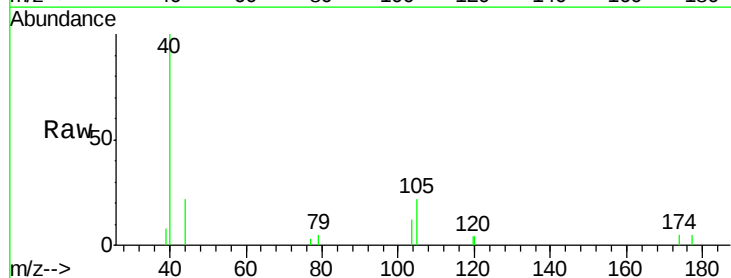
Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V



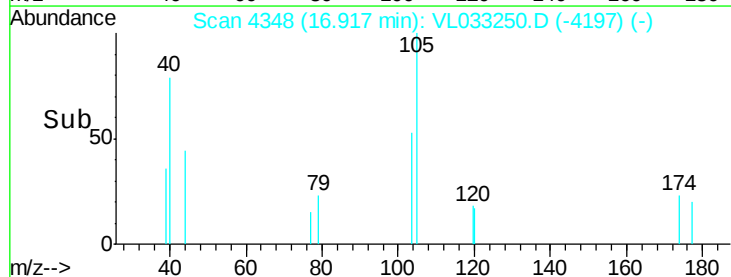
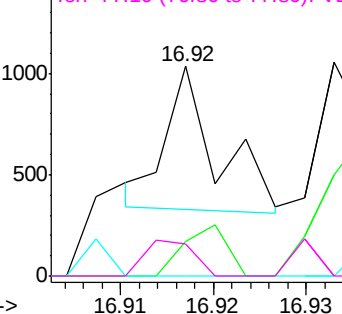
#74

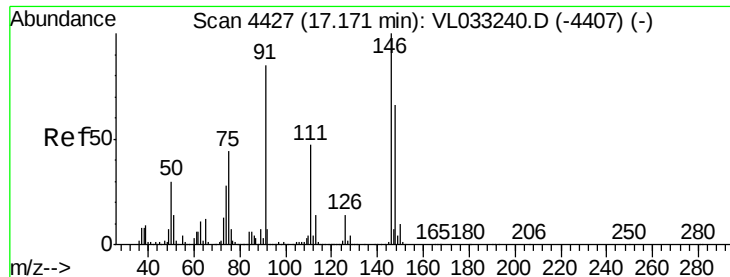
1,2,4-Trimethylbenzene
Concen: 0.001 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. -0.02 min
Lab File: VL033250.D
Acq: 6 Mar 2019 10:27

Tgt Ion:105 Resp: 268
Ion Ratio Lower Upper
105 100
120 25.0 36.5 54.7#
91 0.0 34.4 51.6#
77 23.1 17.0 25.4



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.001 ppbv

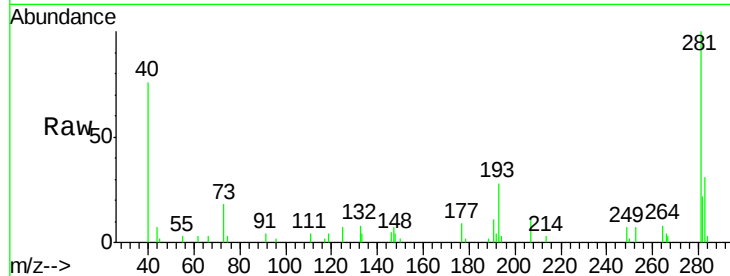
RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

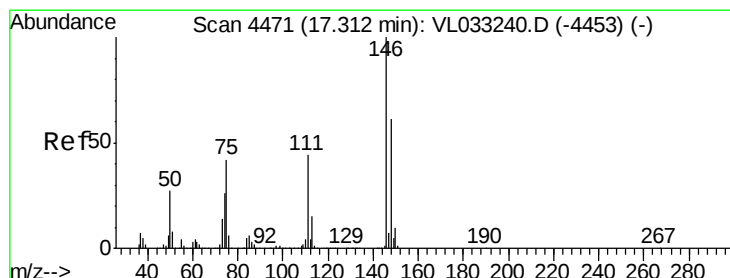
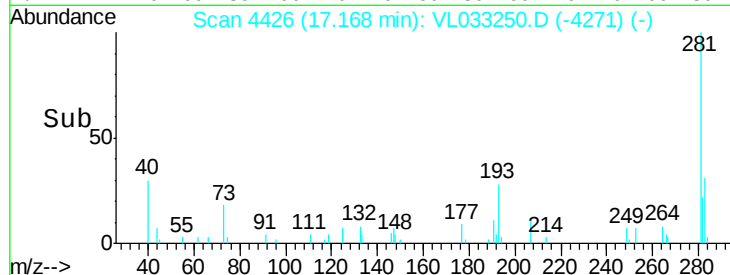
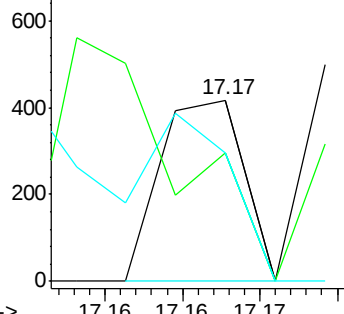
Tot Ion:146	Resp:	156
Ion Ratio	Lower	Upper
146	100	
111	0.0	23.4 70.0#
148	0.0	32.1 96.3#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.001 ppbv

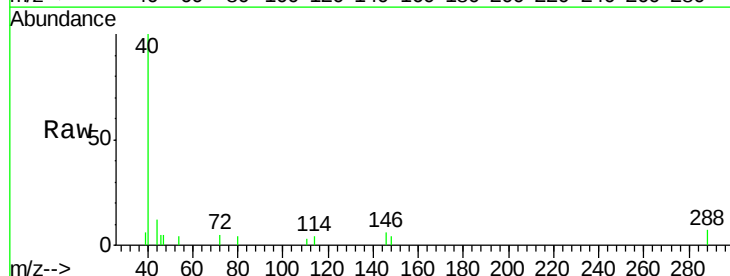
RT: 17.31 min Scan# 4471

Delta R.T. 0.00 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

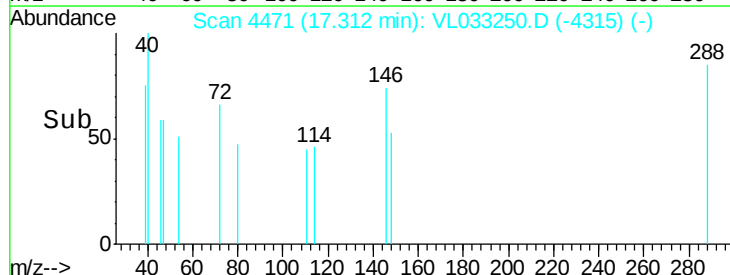
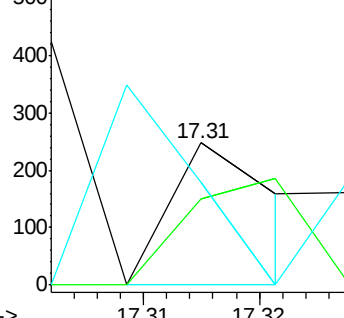
Tgt Ion:146	Resp:	78
Ion Ratio	Lower	Upper
146	100	
111	0.0	22.4 67.3#
148	294.9	32.1 96.3#

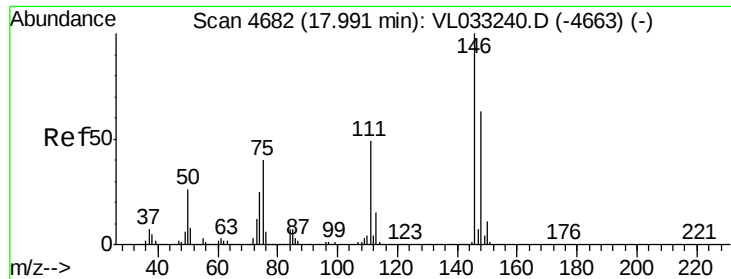


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.000 ppbv

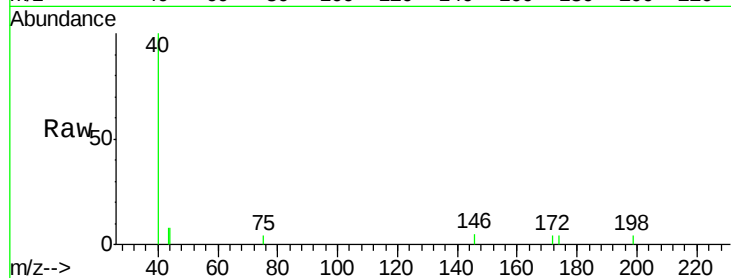
RT: 17.98 min Scan# 4680

Delta R.T. -0.01 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

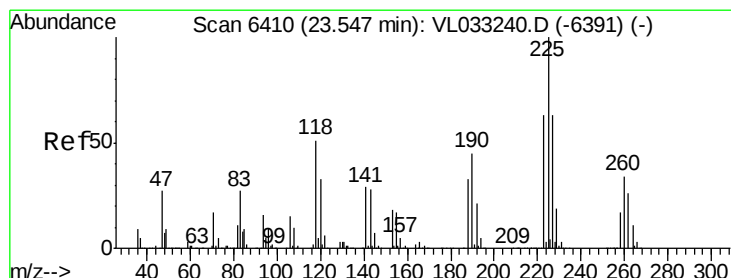
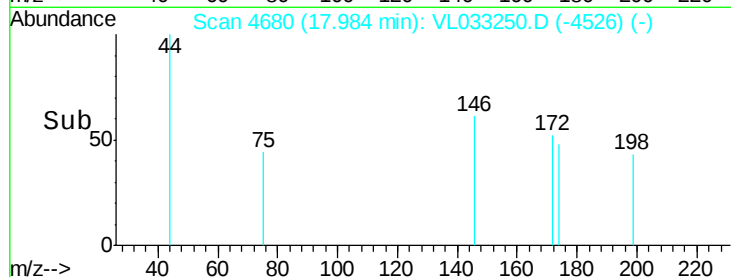
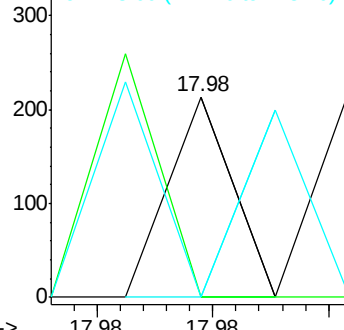
Tot Ion:	146	Resp:	41
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.6	71.0#
148	0.0	32.3	96.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.002 ppbv

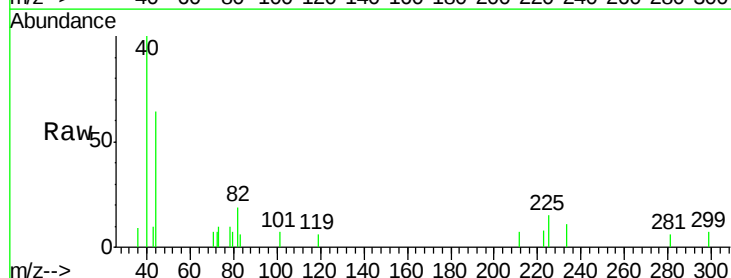
RT: 23.54 min Scan# 6407

Delta R.T. -0.01 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

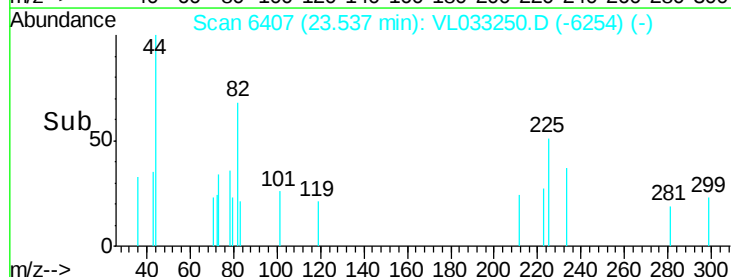
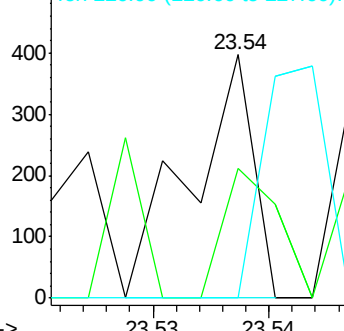
Tgt Ion:	225	Resp:	150
Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.9	76.3#
227	0.0	50.7	76.1#

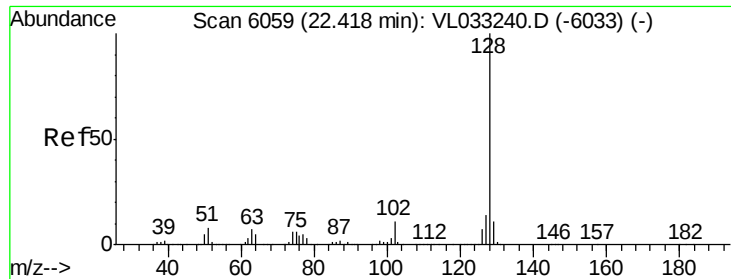


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.001 ppbv

RT: 22.41 min Scan# 6055

Delta R.T. -0.01 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

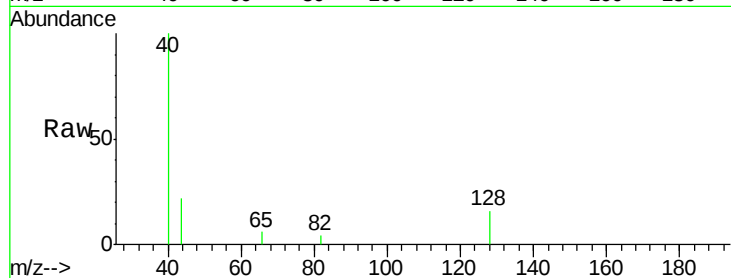
Tot Ion:128 Resp: 264

Ion Ratio Lower Upper

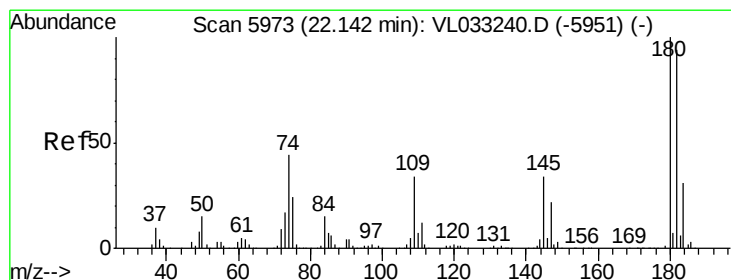
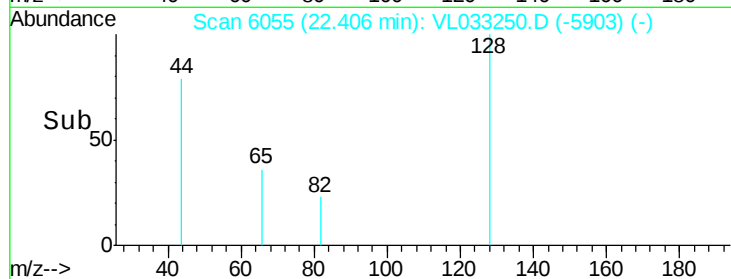
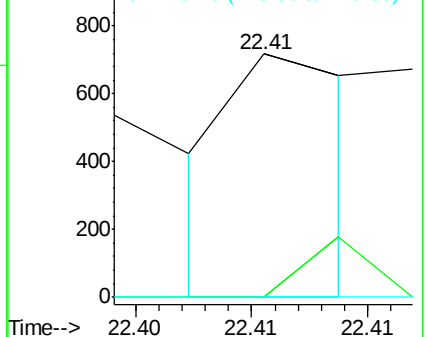
128 100

127 0.0 10.8 16.2#

129 0.0 8.6 13.0#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#81

1,2,4-Trichlorobenzene

Concen: 0.001 ppbv

RT: 22.13 min Scan# 5968

Delta R.T. -0.02 min

Lab File: VL033250.D

Acq: 6 Mar 2019 10:27

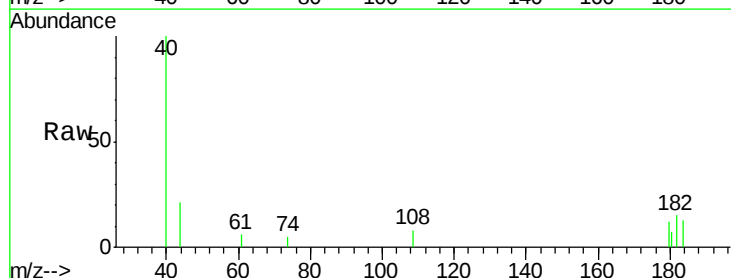
Tgt Ion:180 Resp: 125

Ion Ratio Lower Upper

180 100

182 0.0 76.6 114.8#

184 0.0 24.3 36.5#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

