

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021419\
 Data File : VL033211.D
 Acq On : 14 Feb 2019 23:34
 Operator : SY/AP
 Sample : K1483-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 04:19:59 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	5.77	49	948624	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2100110	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2074311	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1704699	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	25081	0.138	ppbv	96
3) Chlorodifluoromethane	3.01	51	31761	0.278	ppbv	100
4) Chloromethane	3.17	50	7018	0.116	ppbv #	74
7) Chloroethane	3.60	64	239374	11.627	ppbv	97
9) Propene	3.24	41	92006	1.667	ppbv	89
10) Heptane	8.25	43	28461	0.170	ppbv	96
11) Trichlorofluoromethane	4.00	101	171509	1.168	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.55	101	515660	5.067	ppbv	98
13) Ethanol	3.65	45	39876	2.167	ppbv	97
15) Acetone	3.91	43	623527	5.834	ppbv #	87
16) 1,3-Butadiene	3.39	39	65086	1.283	ppbv #	7
17) tert-Butyl alcohol	4.36	59	58685	2.880	ppbv	96
18) 1,1-Dichloroethene	4.35	96	316172	6.941	ppbv	98
19) Isopropyl Alcohol	4.03	45	275604	3.802	ppbv #	97
20) Methylene Chloride	4.41	84	86442	2.033	ppbv	94
21) Allyl Chloride	4.43	41	11124	0.158	ppbv #	57
22) trans-1,2-Dichloroethene	4.96	96	16678	0.377	ppbv #	88
23) Vinyl Acetate	5.16	43	6229	0.034	ppbv #	25
24) 1,1-Dichloroethane	5.09	63	10354517	79.032	ppbv	97
25) Ethyl Acetate	5.78	43	58164	0.242	ppbv #	84
26) Hexane	5.78	57	74617	0.661	ppbv #	41
27) Carbon Disulfide	4.62	76	3191	0.031	ppbv #	1
29) Chloroform	5.85	83	39012	0.226	ppbv	94
30) Cyclohexane	7.26	84	3682	0.035	ppbv #	1
31) cis-1,2-Dichloroethene	5.65	61	13583	0.120	ppbv #	85
32) 1,1,1-Trichloroethane	6.63	97	24135639	126.794	ppbv #	83
34) 2-Butanone	5.35	43	35839	0.269	ppbv	97
36) Benzene	7.02	78	39001	0.183	ppbv	96
37) 1,2-Dichloroethane	6.42	62	58763	0.498	ppbv #	82
38) Trichloroethene	7.97	130	107899	1.184	ppbv #	86
39) 1,2-Dichloropropane	7.30	63	567436	6.751	ppbv #	26
40) 1,4-Dioxane	7.97	88	52412	1.716	ppbv #	1
41) Tetrahydrofuran	6.17	42	7926	0.096	ppbv #	61
44) 2,2,4-Trimethylpentane	8.00	57	90037	0.250	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	22198	0.254	ppbv	97
52) Tetrachloroethene	11.38	164	178458	2.182	ppbv	95
53) Toluene	9.95	91	134629	0.534	ppbv	98
58) Ethyl Benzene	12.87	91	69440	0.207	ppbv	93
59) m/p-Xylene	13.12	91	757562	2.704	ppbv #	100
60) o-Xylene	13.85	91	195977	0.719	ppbv	99
65) tert-Butylbenzene	16.92	119	11210	0.033	ppbv #	1

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

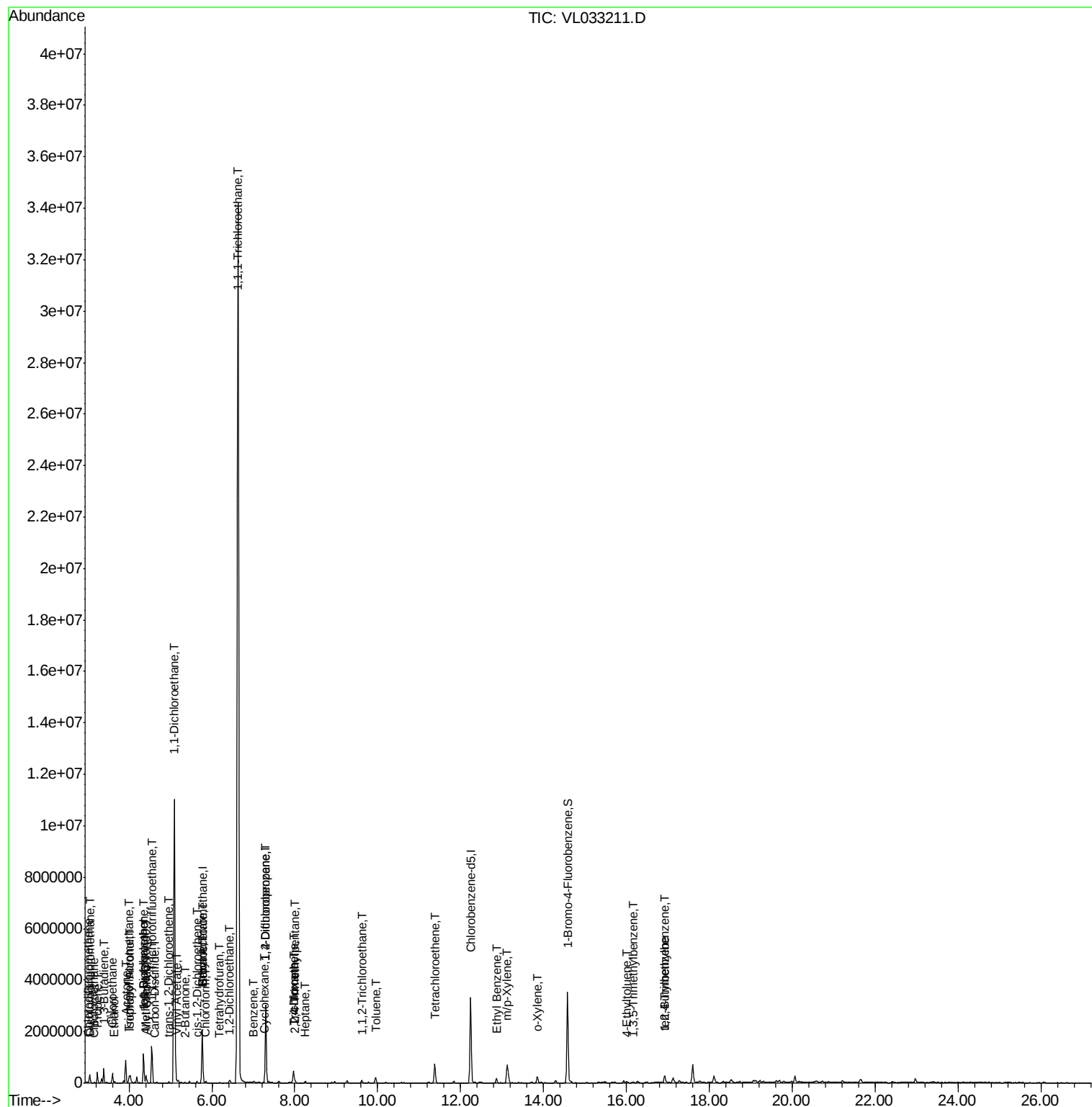
Response via : Initial Calibration

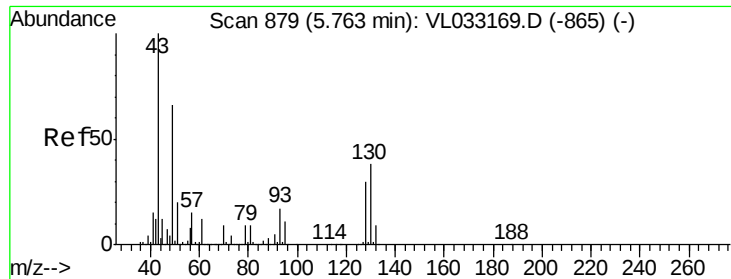
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	16.00	105	18219	0.058	ppbv #	70
73) 1,3,5-Trimethylbenzene	16.16	105	13814	0.046	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.93	105	54613	0.175	ppbv #	75

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

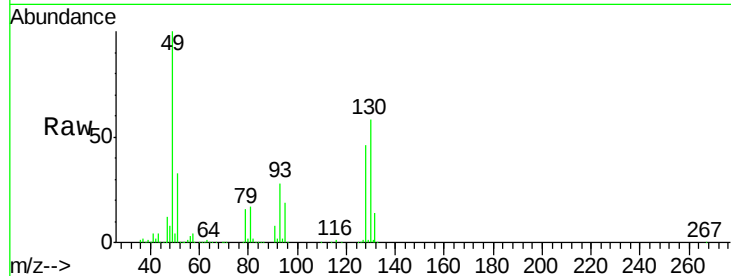
Tgt Ion: 49 Resp: 948624

Ion Ratio Lower Upper

49 100

128 45.7 23.6 71.0

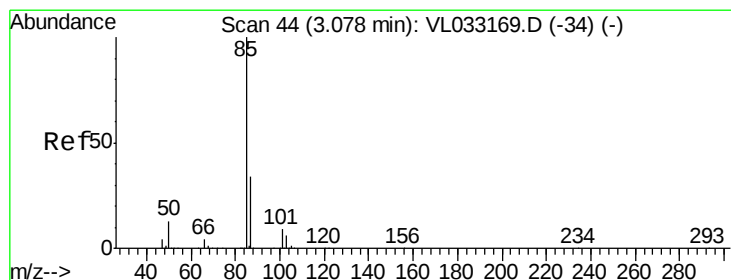
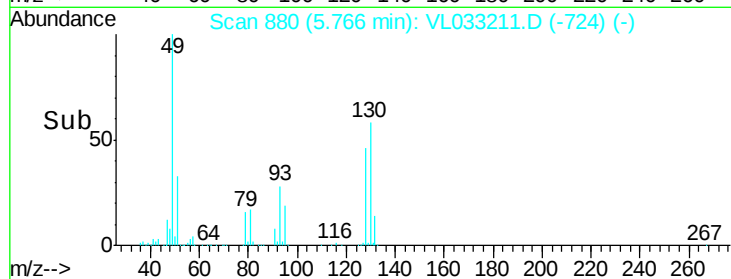
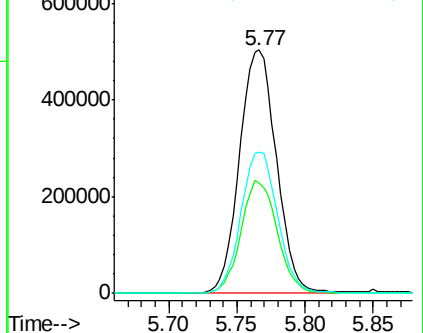
130 58.1 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.138 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033211.D

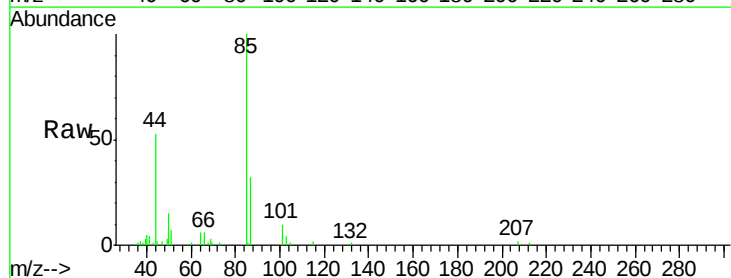
Acq: 14 Feb 2019 23:34

Tgt Ion: 85 Resp: 25081

Ion Ratio Lower Upper

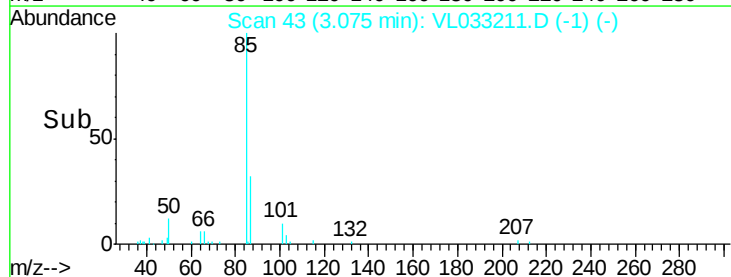
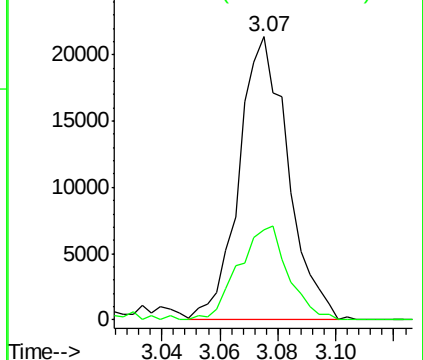
85 100

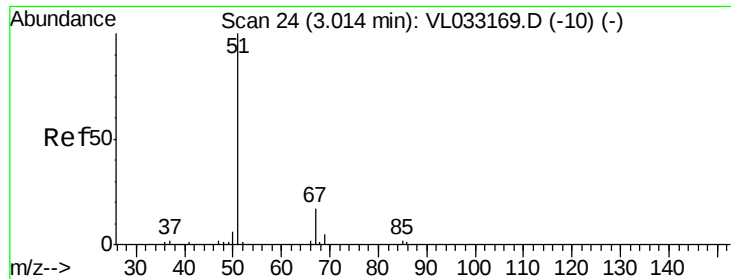
87 31.9 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.278 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033211.D

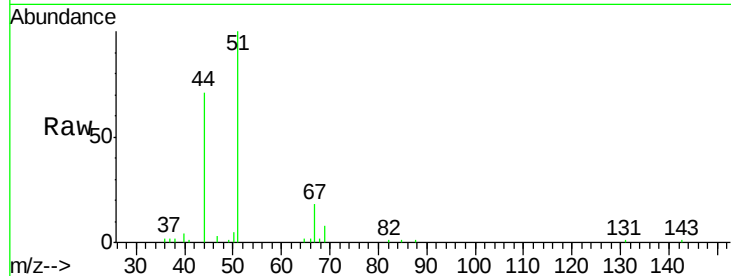
Acq: 14 Feb 2019 23:34

Tgt Ion: 51 Resp: 31761

Ion Ratio Lower Upper

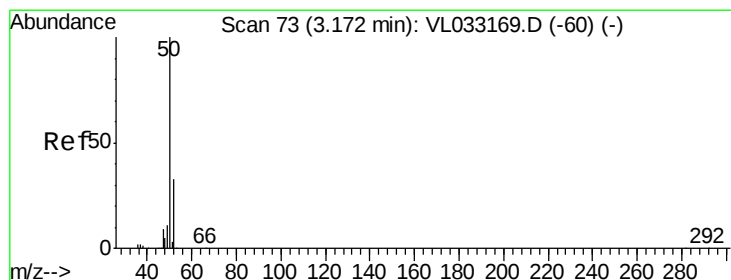
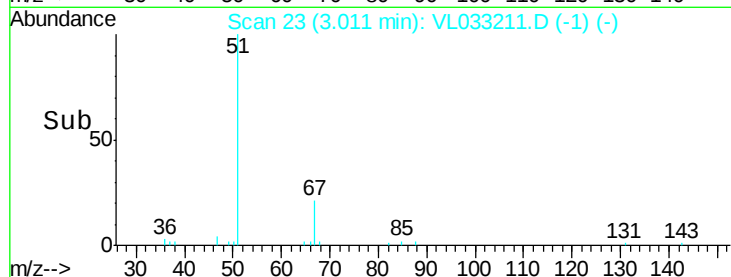
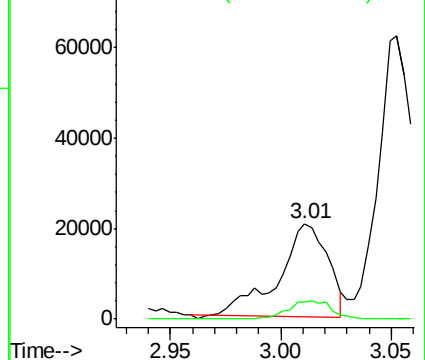
51 100

67 17.7 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.116 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033211.D

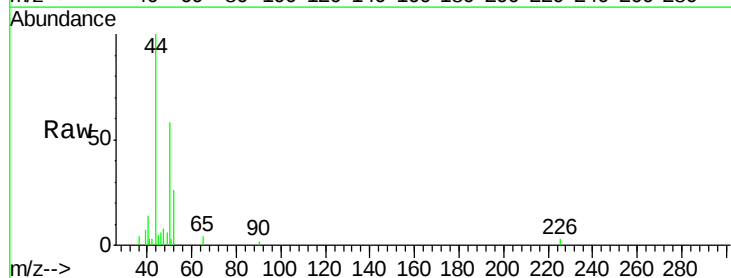
Acq: 14 Feb 2019 23:34

Tgt Ion: 50 Resp: 7018

Ion Ratio Lower Upper

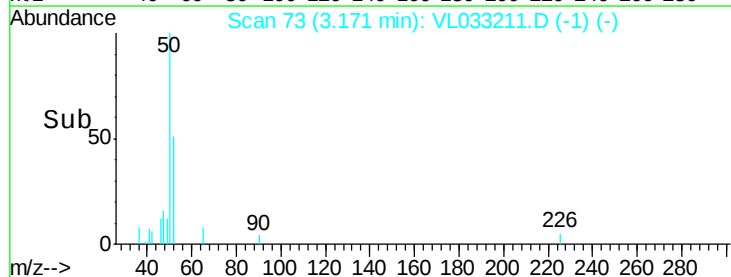
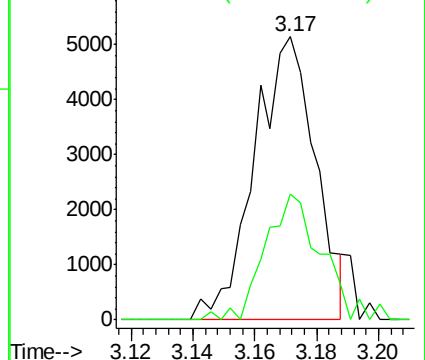
50 100

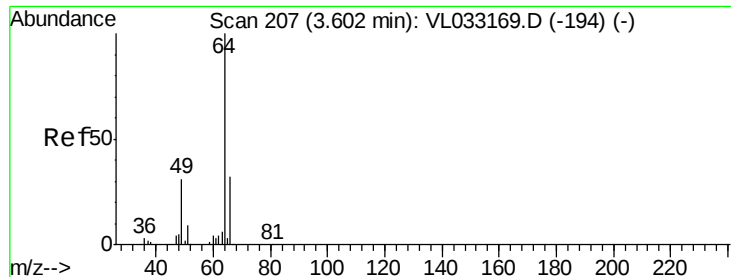
52 47.7 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 11.627 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033211.D

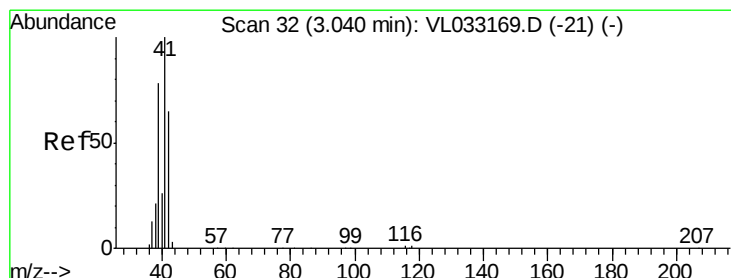
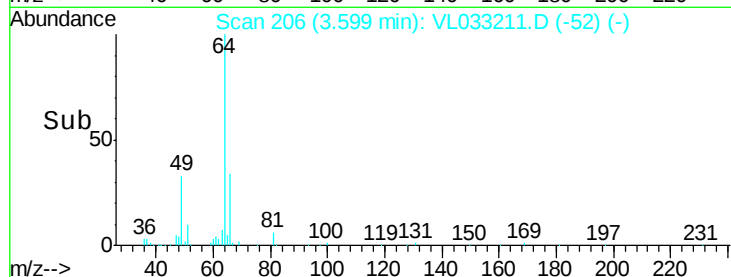
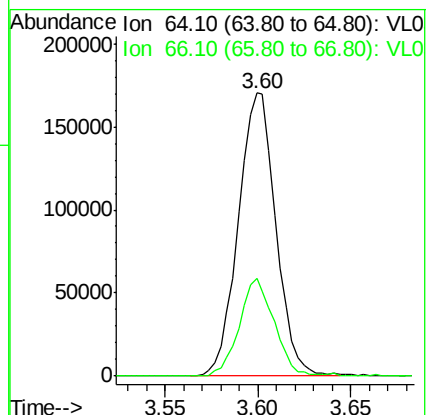
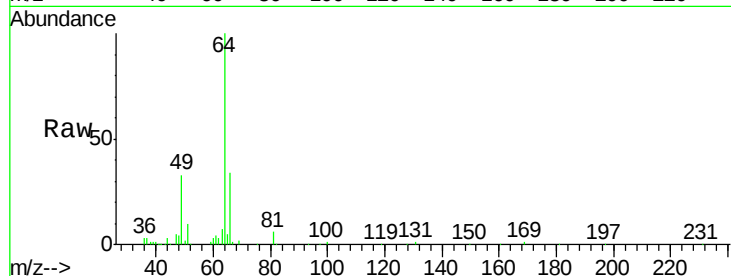
Acq: 14 Feb 2019 23:34

Tgt Ion: 64 Resp: 239374

Ion Ratio Lower Upper

64 100

66 34.5 26.0 39.0



#9

Propene

Concen: 1.667 ppbv

RT: 3.24 min Scan# 93

Delta R.T. 0.20 min

Lab File: VL033211.D

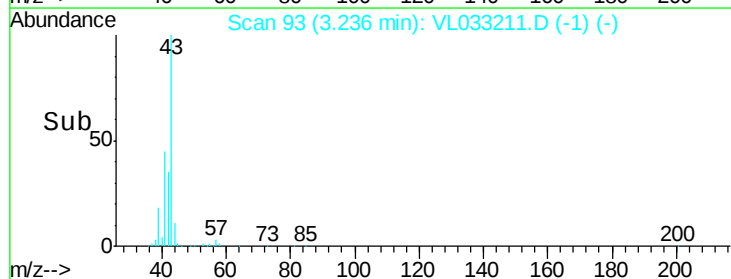
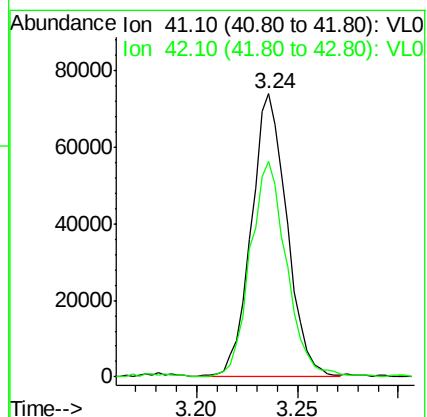
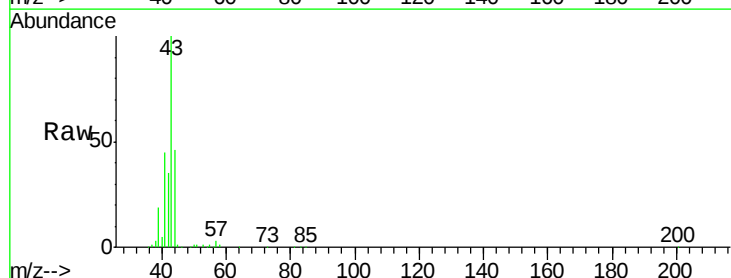
Acq: 14 Feb 2019 23:34

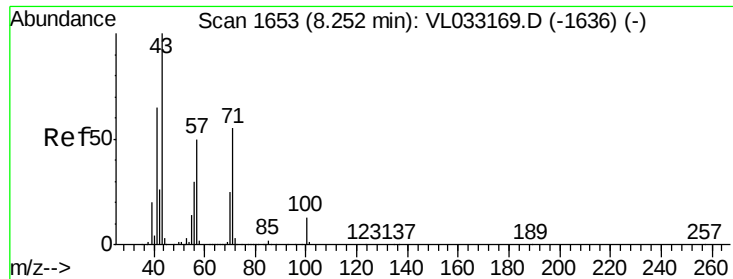
Tgt Ion: 41 Resp: 92006

Ion Ratio Lower Upper

41 100

42 78.1 55.0 82.6





#10

Heptane

Concen: 0.170 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033211.D

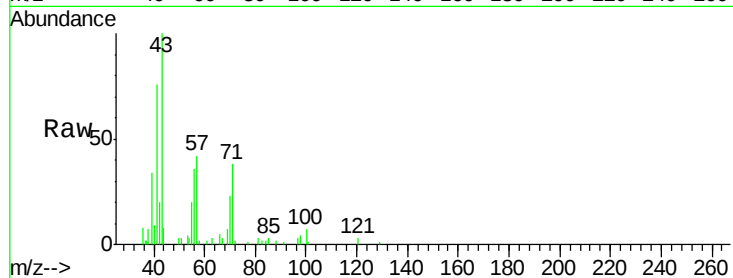
Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 28461

Ion Ratio Lower Upper

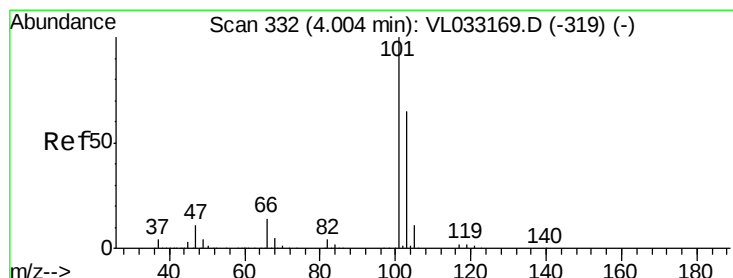
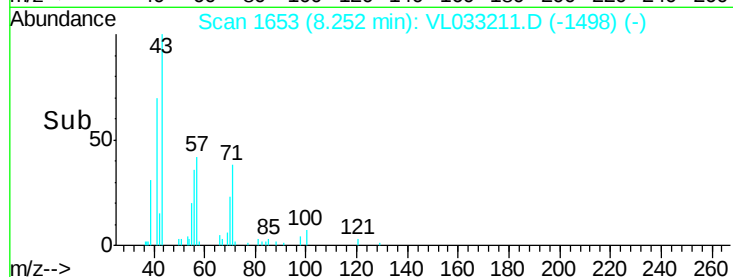
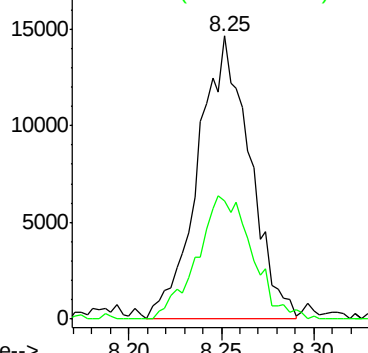
43 100

57 46.5 39.5 59.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 1.168 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033211.D

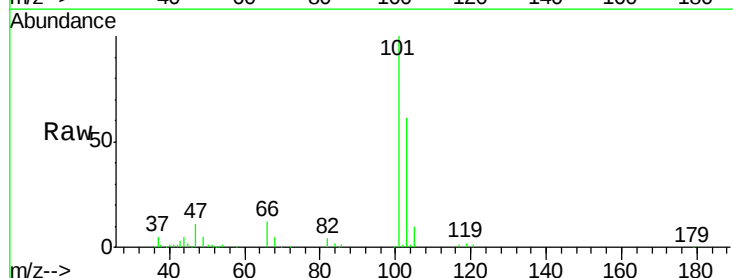
Acq: 14 Feb 2019 23:34

Tgt Ion: 101 Resp: 171509

Ion Ratio Lower Upper

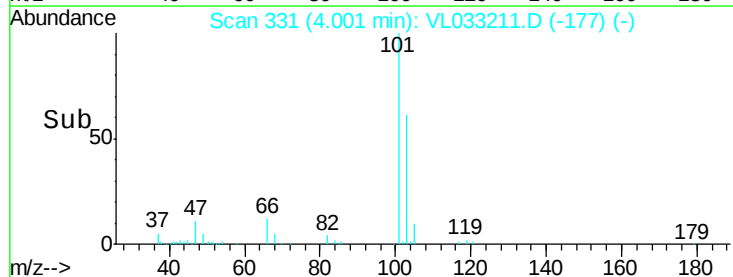
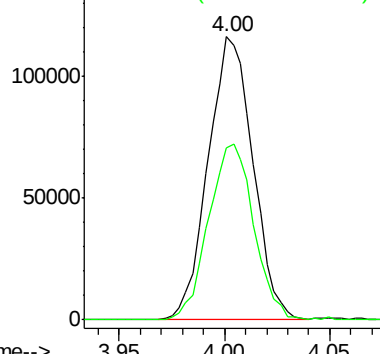
101 100

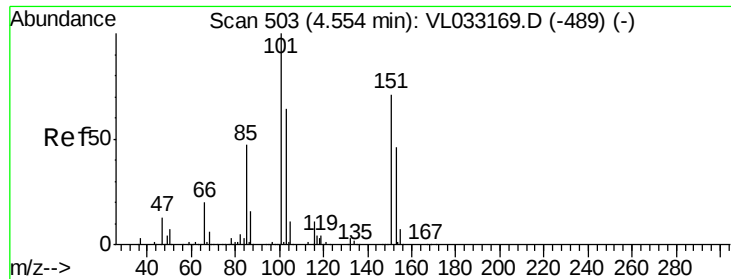
103 60.4 51.7 77.5



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: 5.067 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL033211.D

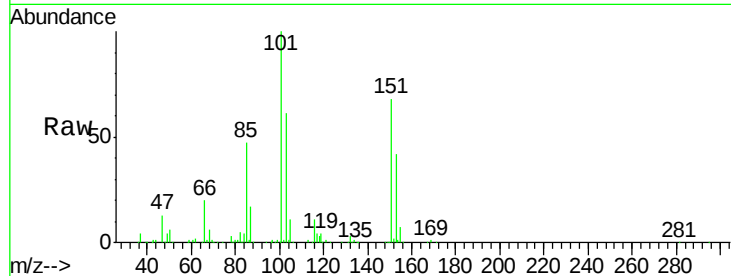
Acq: 14 Feb 2019 23:34

Tgt Ion: 101 Resp: 515660

Ion Ratio Lower Upper

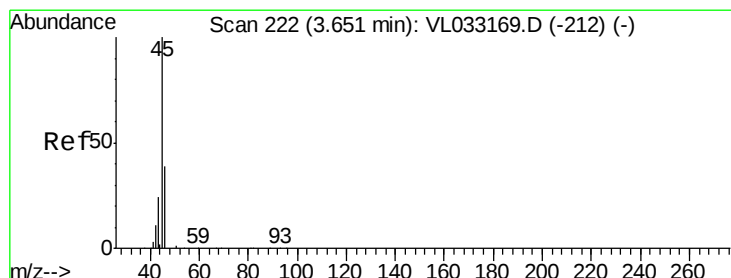
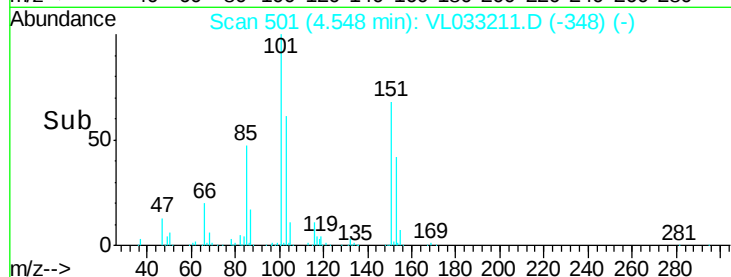
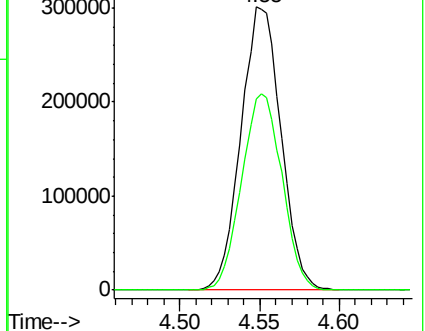
101 100

151 69.9 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 2.167 ppbv

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033211.D

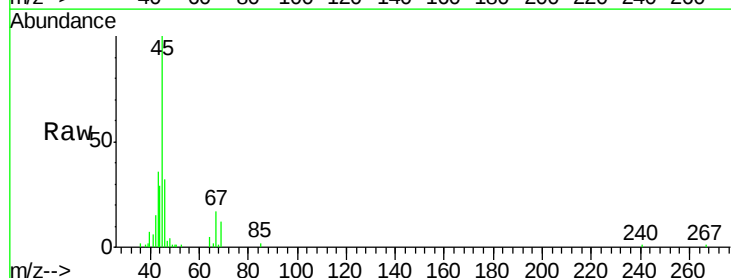
Acq: 14 Feb 2019 23:34

Tgt Ion: 45 Resp: 39876

Ion Ratio Lower Upper

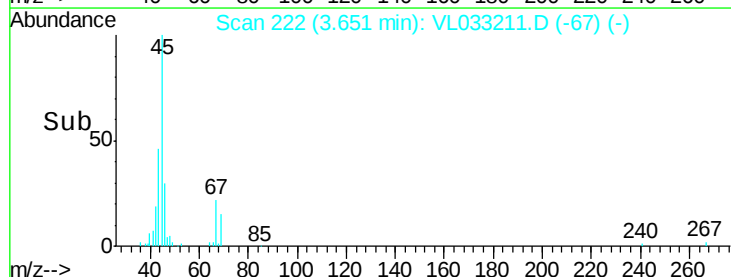
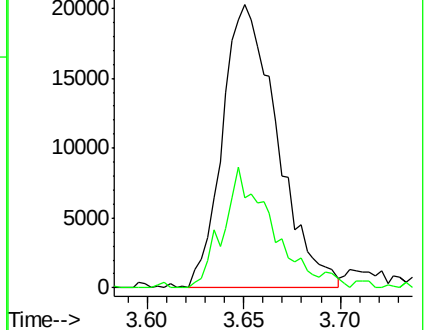
45 100

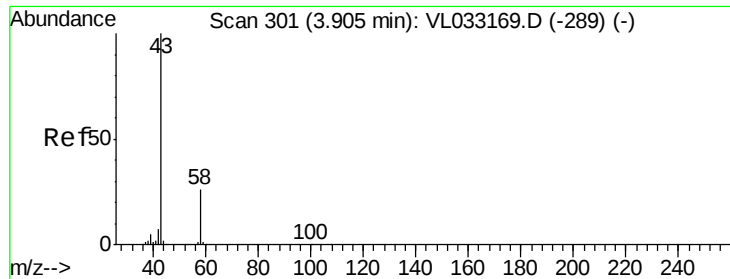
46 39.6 15.0 60.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.834 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033211.D

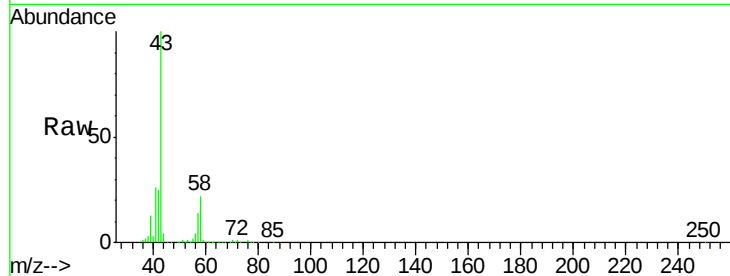
Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 623527

Ion Ratio Lower Upper

43 100

58 19.5 21.1 31.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.91

300000

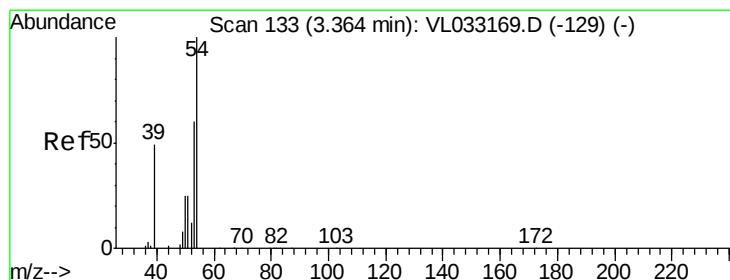
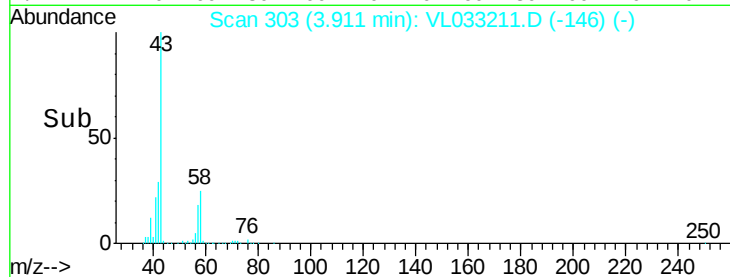
200000

100000

0

Time-->

3.85 3.90 3.95 4.00



#16

1,3-Butadiene

Concen: 1.283 ppbv

RT: 3.39 min Scan# 141

Delta R.T. 0.03 min

Lab File: VL033211.D

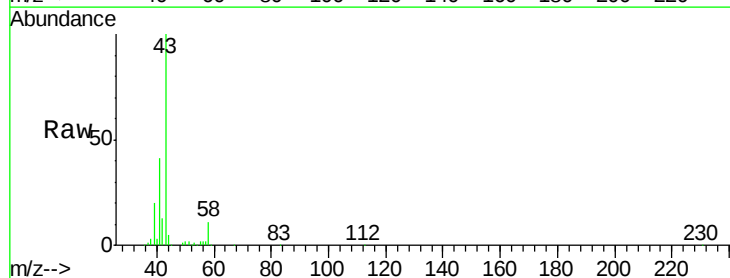
Acq: 14 Feb 2019 23:34

Tgt Ion: 39 Resp: 65086

Ion Ratio Lower Upper

39 100

54 2.1 71.3 106.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.39

60000

50000

40000

30000

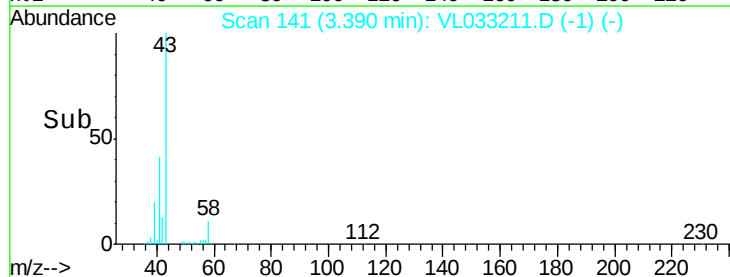
20000

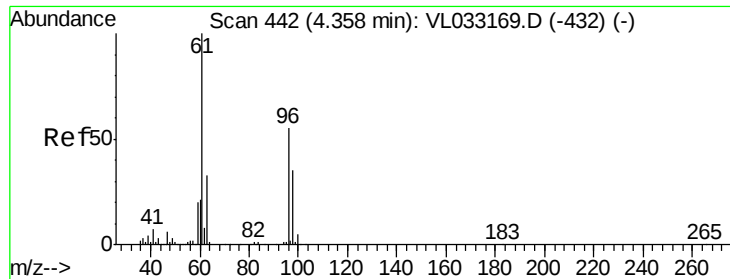
10000

0

Time-->

3.34 3.36 3.38 3.40 3.42

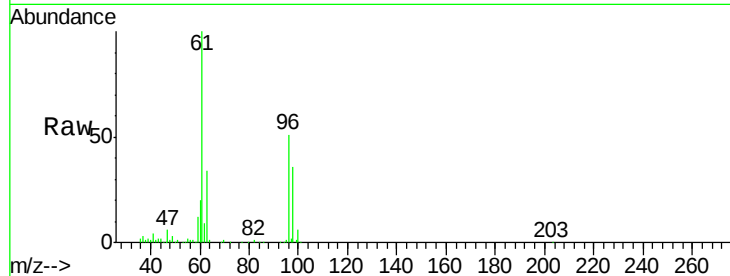




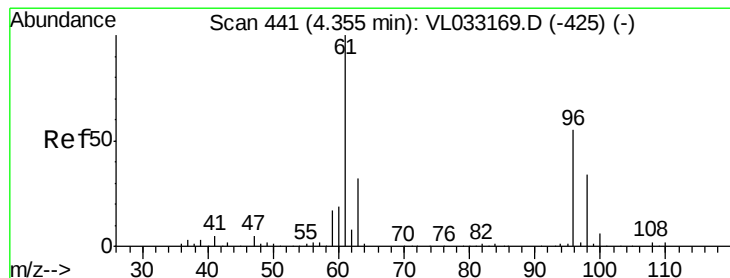
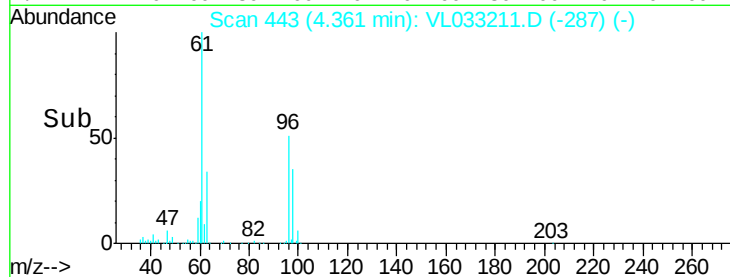
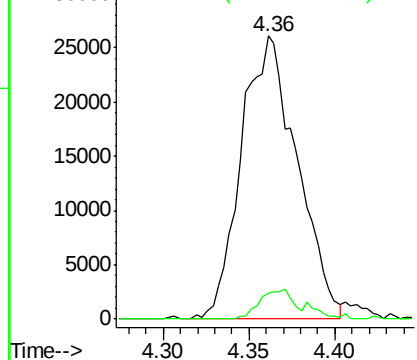
#17

tert-Butyl alcohol
Concen: 2.880 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 59 Resp: 58685
Ion Ratio Lower Upper
59 100
57 7.9 7.6 11.4



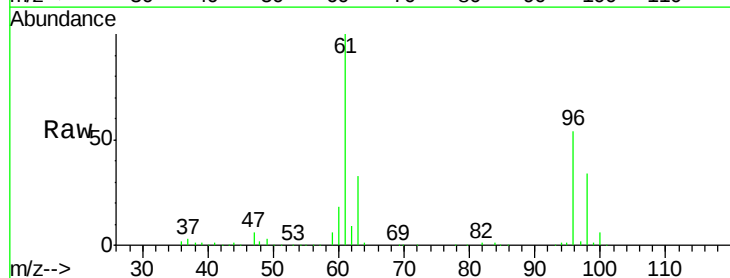
Abundance Ion 59.10 (58.80 to 59.80): VL0
Ion 57.10 (56.80 to 57.80): VL0



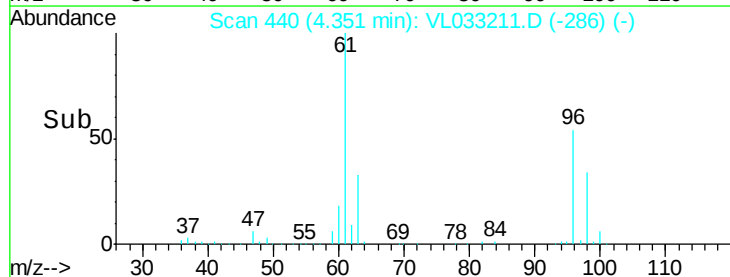
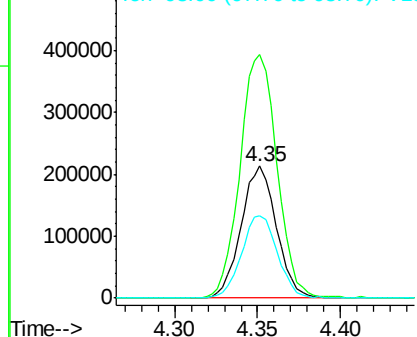
#18

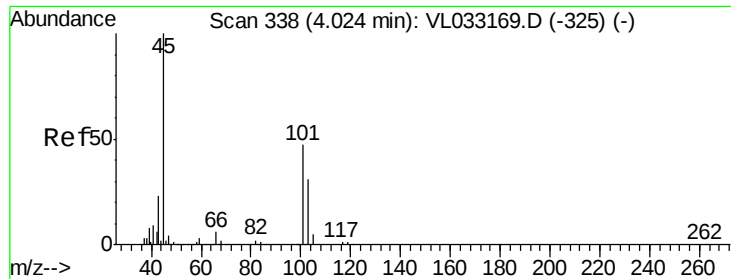
1,1-Dichloroethene
Concen: 6.941 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 96 Resp: 316172
Ion Ratio Lower Upper
96 100
61 184.2 145.0 217.6
98 62.7 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: 3.802 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL033211.D

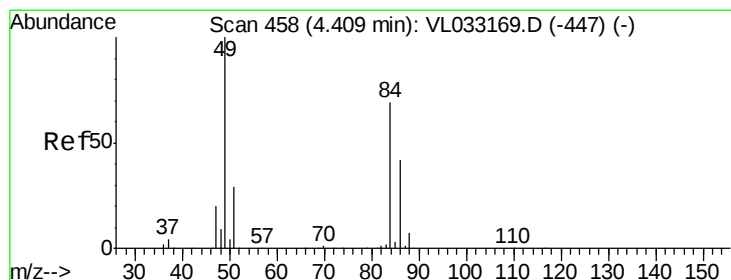
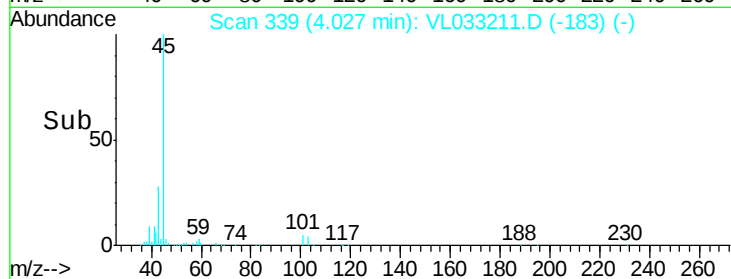
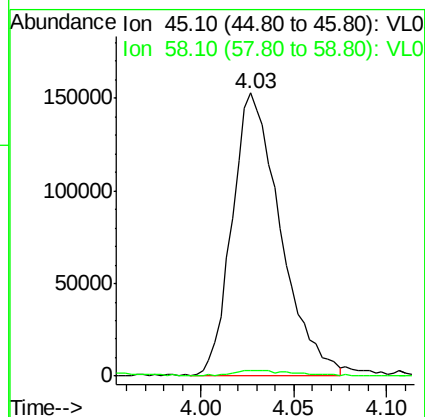
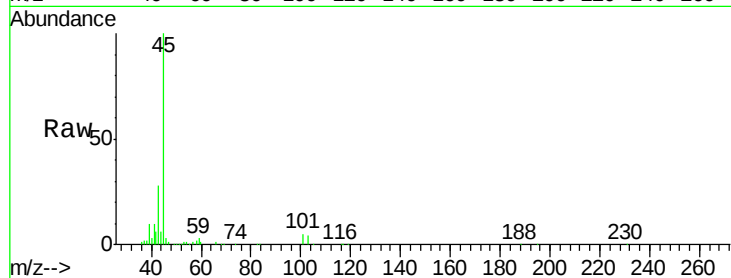
Acq: 14 Feb 2019 23:34

Tgt Ion: 45 Resp: 275604

Ion Ratio Lower Upper

45 100

58 2.9 1.5 2.3#



#20

Methylene Chloride

Concen: 2.033 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion: 84 Resp: 86442

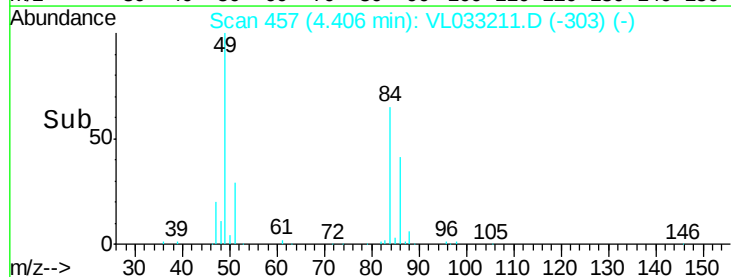
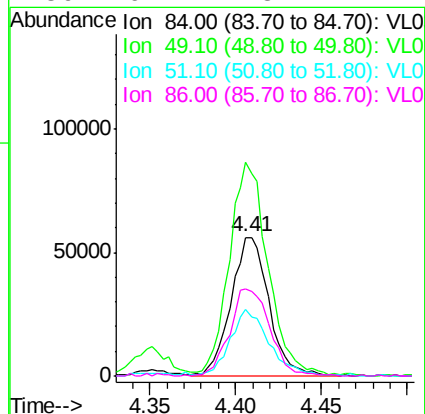
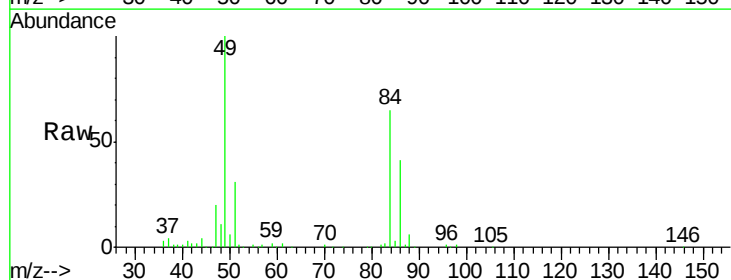
Ion Ratio Lower Upper

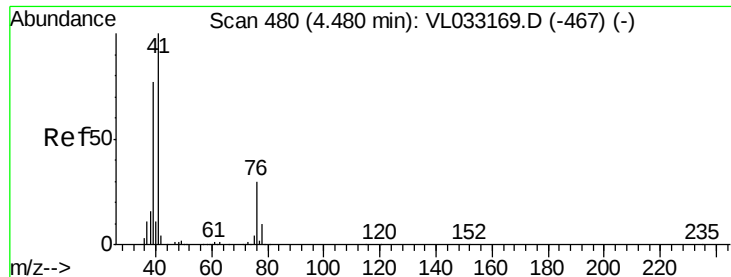
84 100

49 153.2 115.8 173.8

51 47.8 33.0 49.6

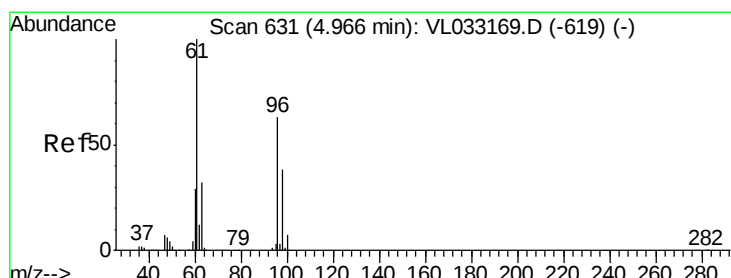
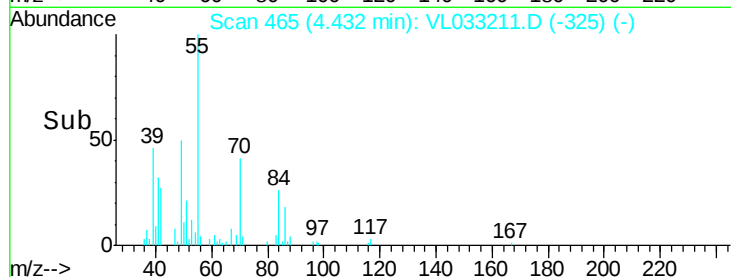
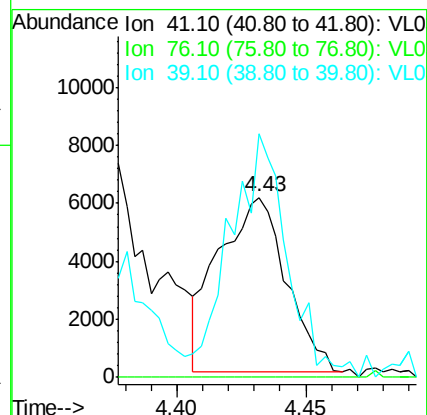
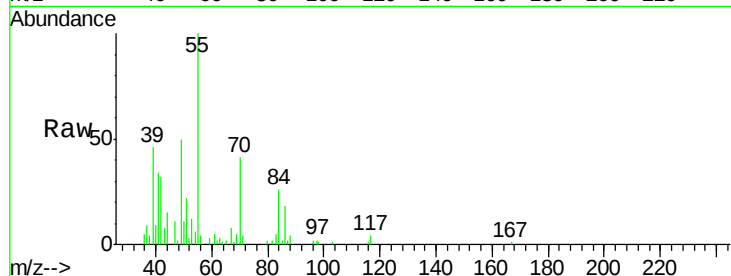
86 62.7 48.2 72.2





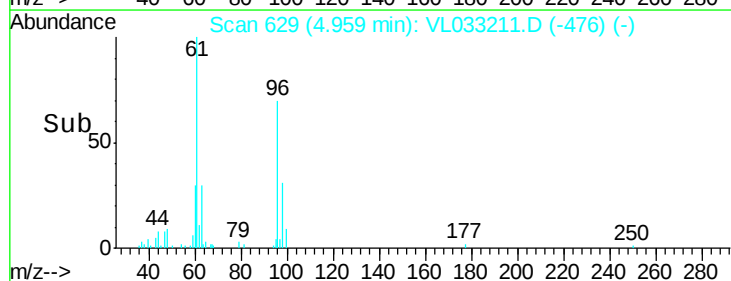
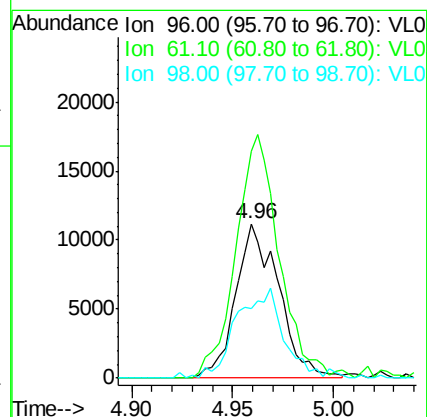
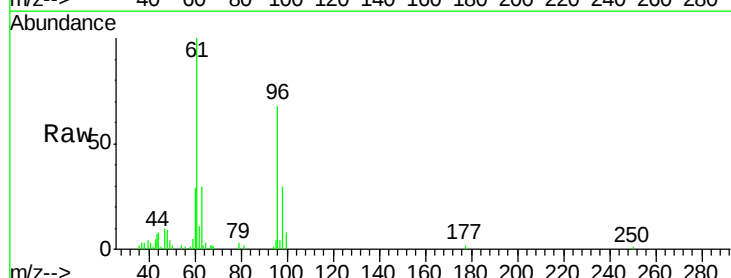
#21
 Allyl Chloride
 Concen: 0.158 ppbv
 RT: 4.43 min Scan# 465
 Delta R.T. -0.05 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

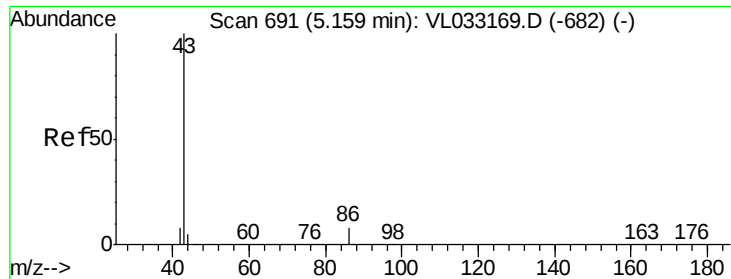
Tgt Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.5	36.7#
39	114.1	64.1	96.1#



#22
 trans-1,2-Dichloroethene
 Concen: 0.377 ppbv
 RT: 4.96 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.4	126.4	189.6
98	43.0	48.4	72.6#





#23

Vinyl Acetate

Concen: 0.034 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 6229

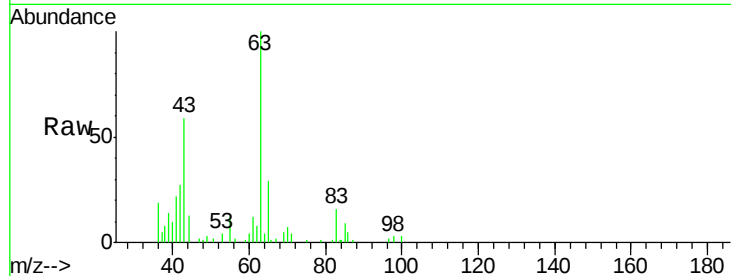
Ion Ratio Lower Upper

43 100

86 8.1 5.8 8.8

42 59.8 7.4 11.0#

44 25.3 3.7 5.5#

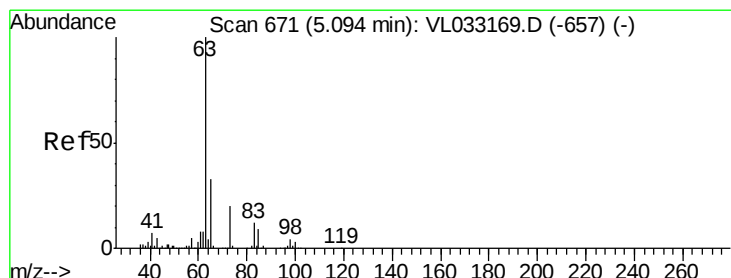
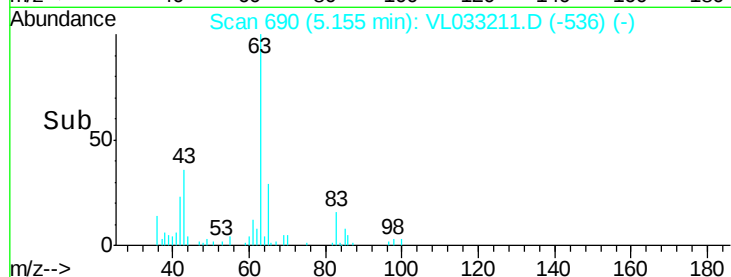
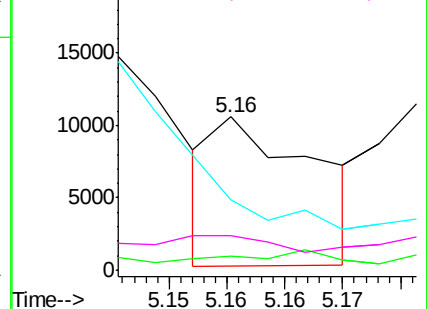


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 79.032 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

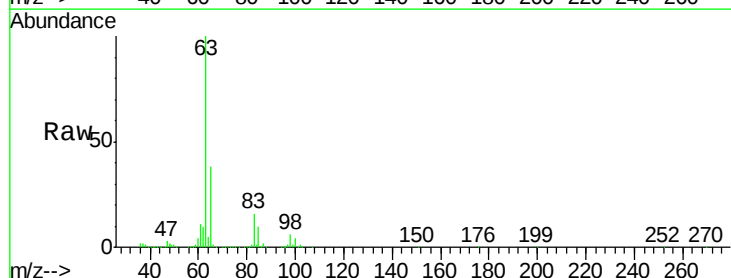
Tgt Ion: 63 Resp: 10354517

Ion Ratio Lower Upper

63 100

98 5.6 2.1 6.5

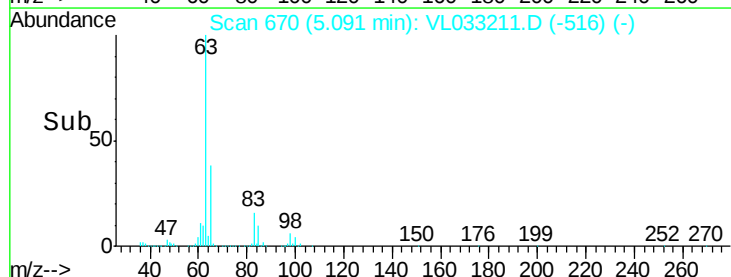
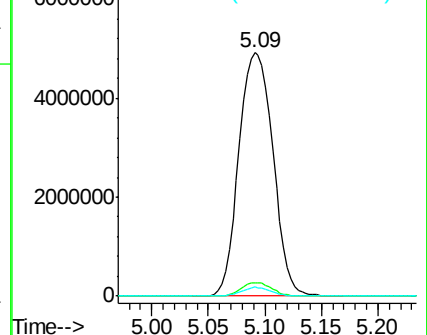
100 3.7 1.4 4.2

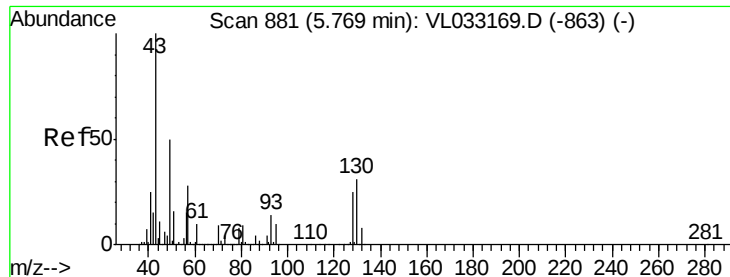


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.242 ppbv

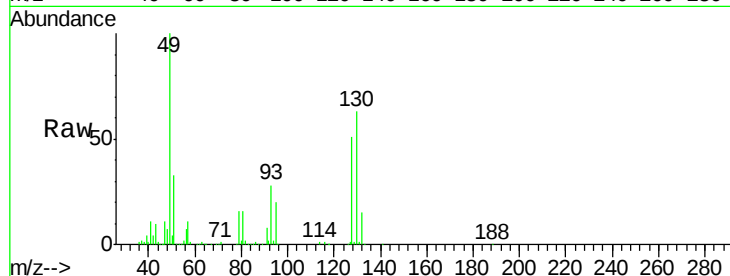
RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion:	43	Resp:	58164
Ion	Ratio	Lower	Upper
43	100		
45	3.8	7.9	11.9#
61	2.7	7.5	11.3#
70	2.6	5.8	8.8#



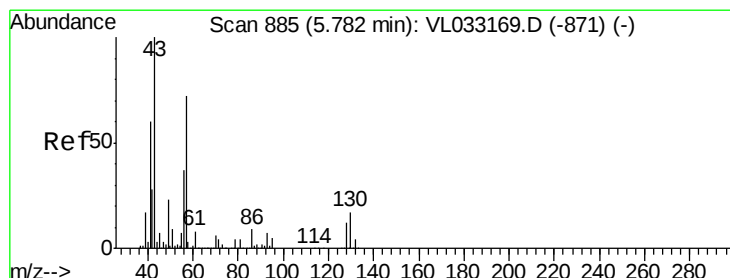
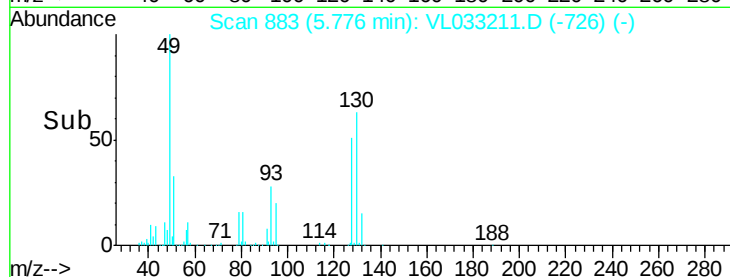
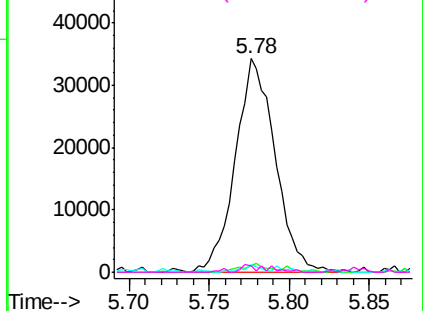
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.661 ppbv

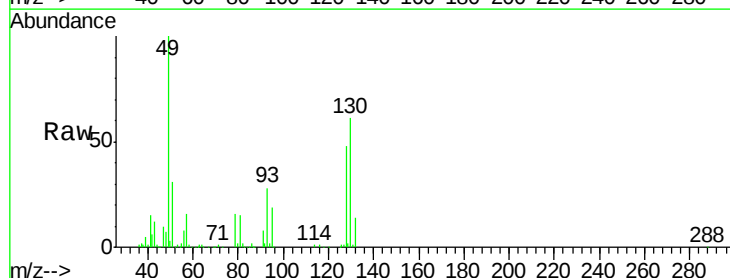
RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion:	57	Resp:	74617
Ion	Ratio	Lower	Upper
57	100		
41	98.5	69.4	104.2
43	78.8	176.7	265.1#
56	58.6	41.4	62.0



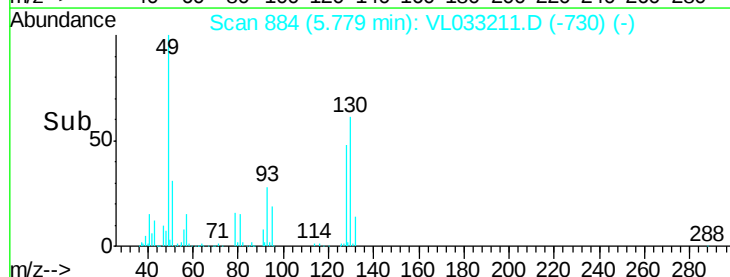
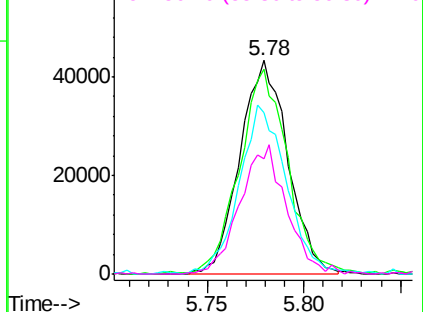
Abundance

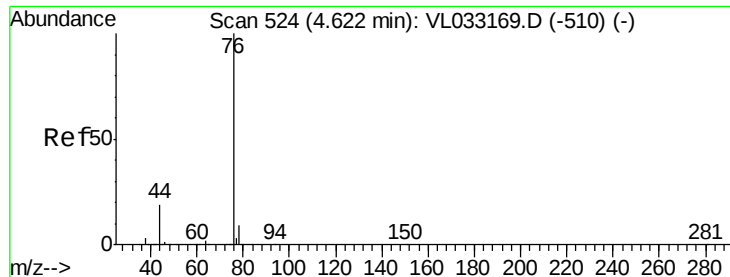
Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.031 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

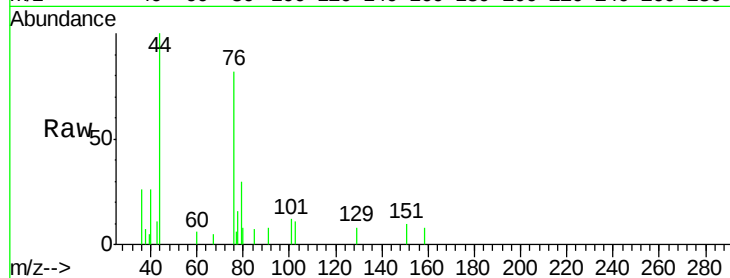
Tgt Ion: 76 Resp: 3191

Ion Ratio Lower Upper

76 100

44 99.6 15.0 22.4#

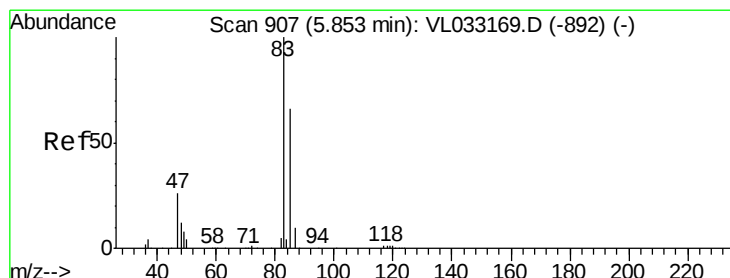
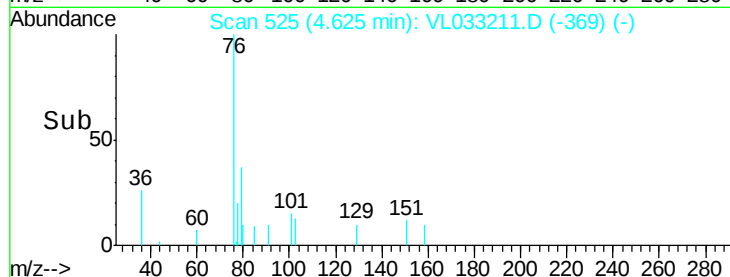
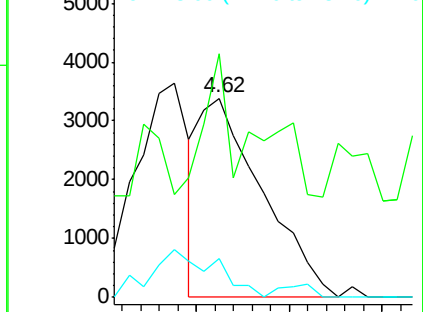
78 0.0 7.4 11.0#



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



#29

Chloroform

Concen: 0.226 ppbv

RT: 5.85 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL033211.D

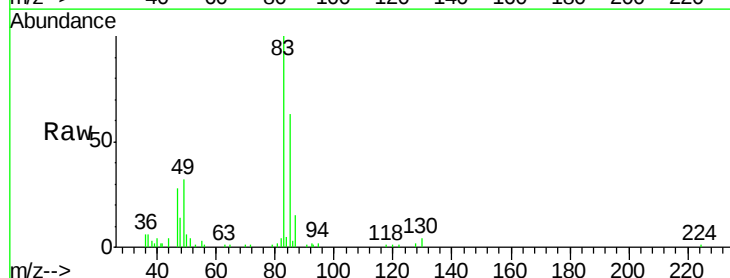
Acq: 14 Feb 2019 23:34

Tgt Ion: 83 Resp: 39012

Ion Ratio Lower Upper

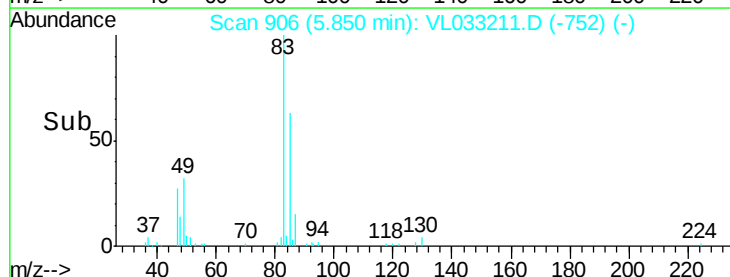
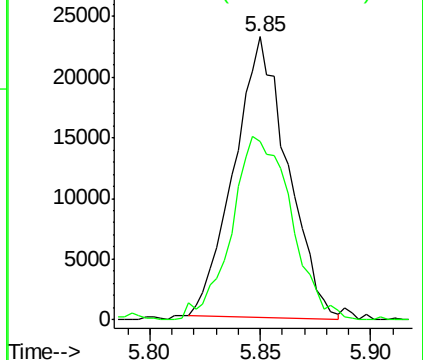
83 100

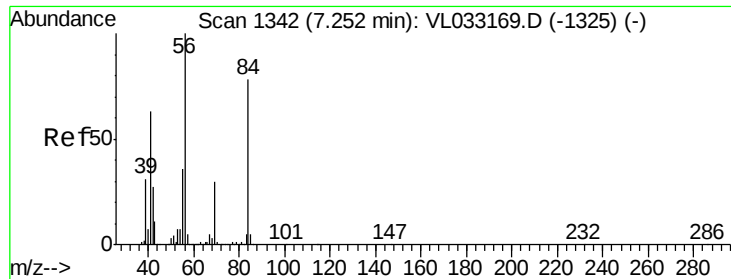
85 60.7 52.6 78.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

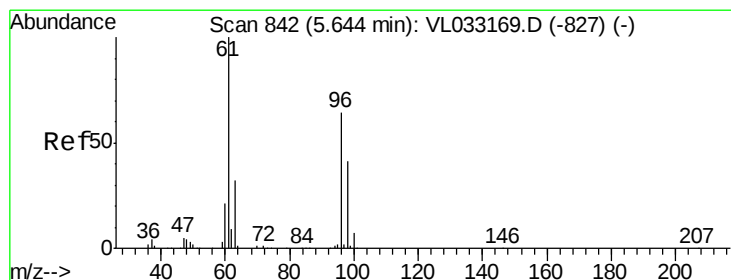
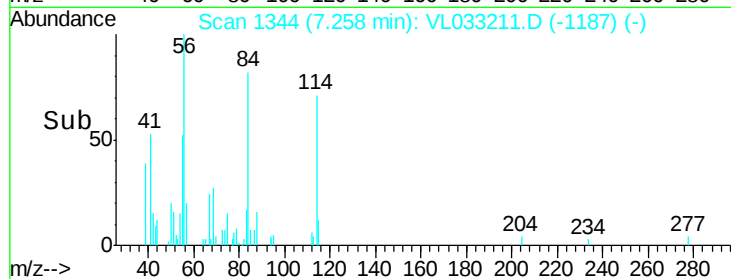
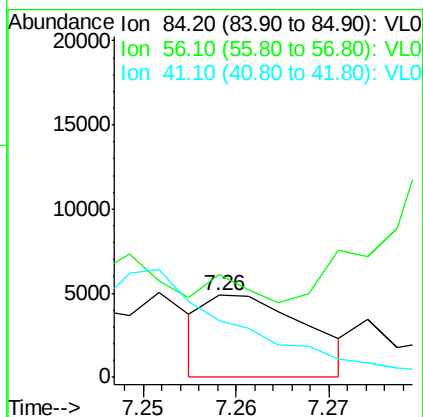
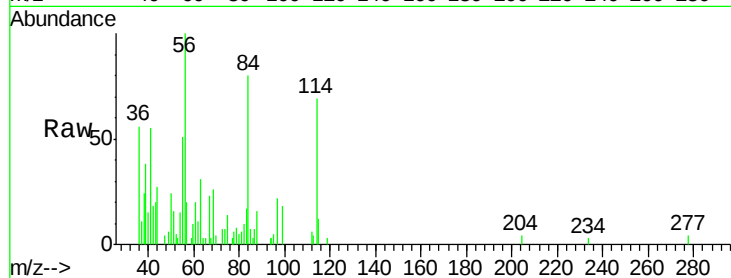
Ion 85.00 (84.70 to 85.70): VL0





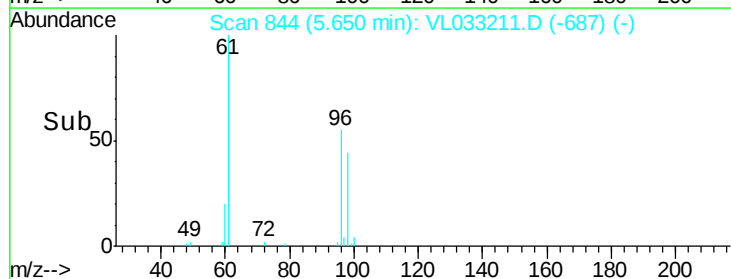
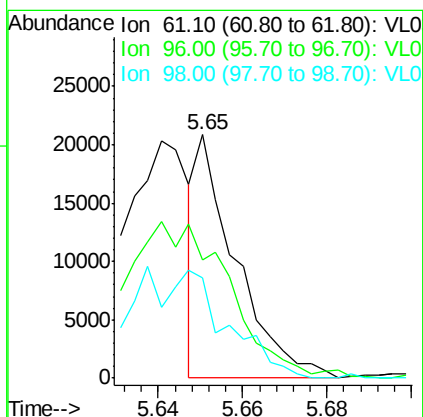
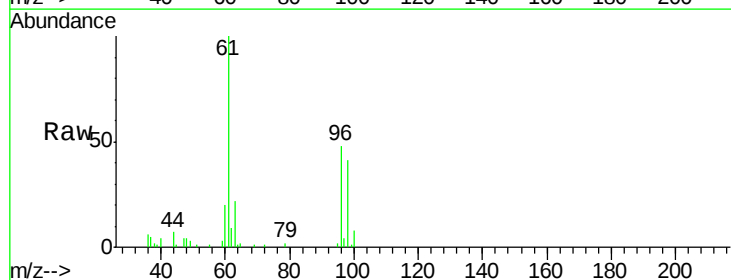
#30
Cyclohexane
Concen: 0.035 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

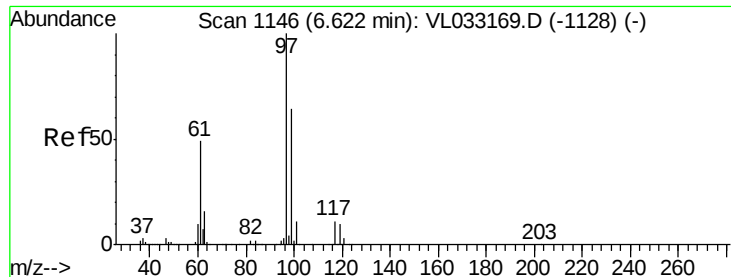
Tgt Ion: 84 Resp: 3682
Ion Ratio Lower Upper
84 100
56 0.0 109.5 164.3#
41 0.0 66.6 100.0#



#31
cis-1,2-Dichloroethene
Concen: 0.120 ppbv
RT: 5.65 min Scan# 844
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

Tgt Ion: 61 Resp: 13583
Ion Ratio Lower Upper
61 100
96 45.1 51.2 76.8#
98 41.3 32.8 49.2





#32

1,1,1-Trichloroethane

Concen: 126.794 ppbv

RT: 6.63 min Scan# 1149

Delta R.T. 0.01 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

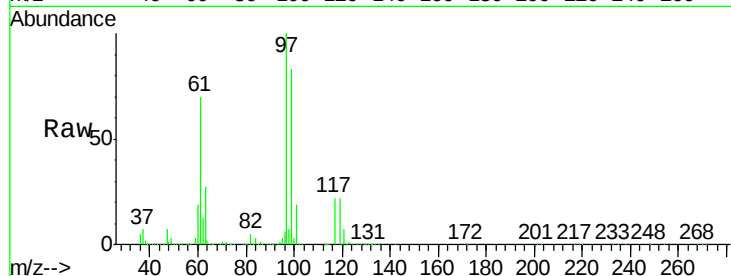
Tgt Ion: 97 Resp: 24135639

Ion Ratio Lower Upper

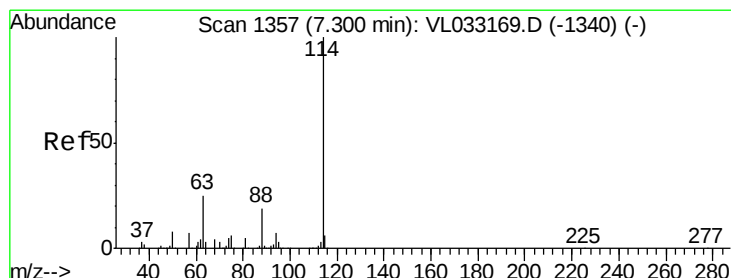
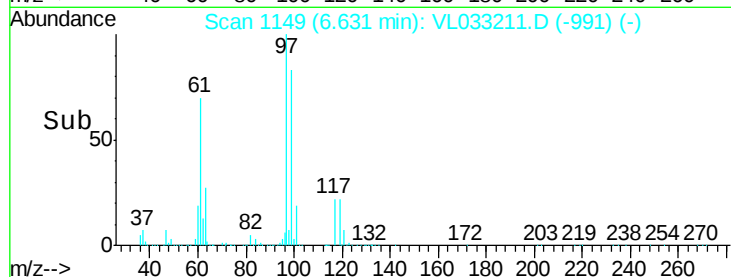
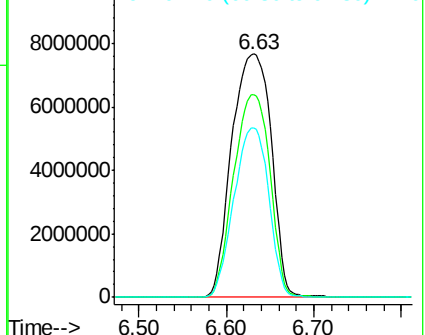
97 100

99 76.7 51.4 77.2

61 61.5 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: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

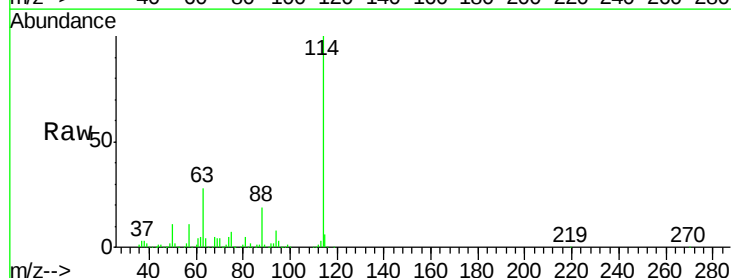
Tgt Ion: 114 Resp: 2100110

Ion Ratio Lower Upper

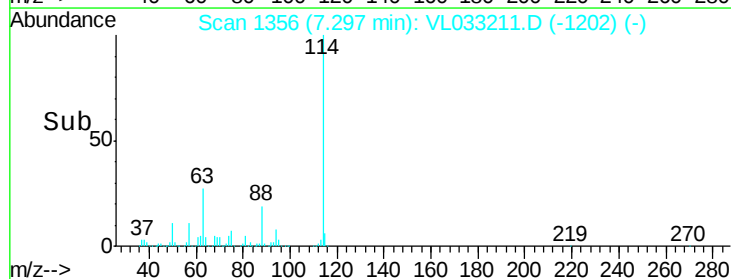
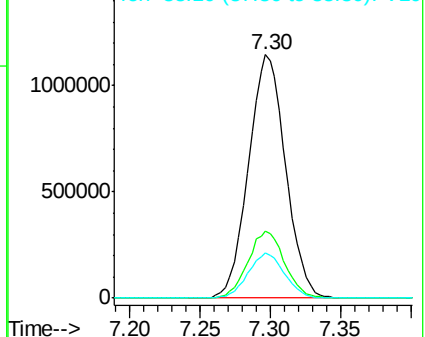
114 100

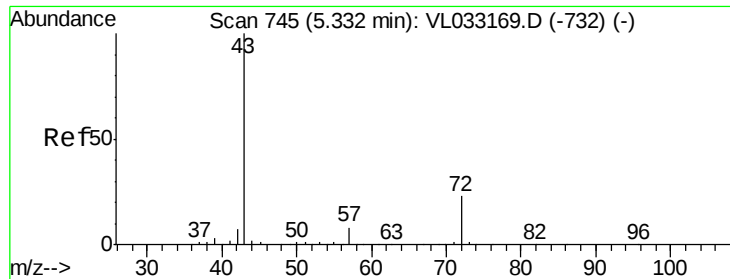
63 27.5 20.8 31.2

88 18.4 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





#34

2-Butanone

Concen: 0.269 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.02 min

Lab File: VL033211.D

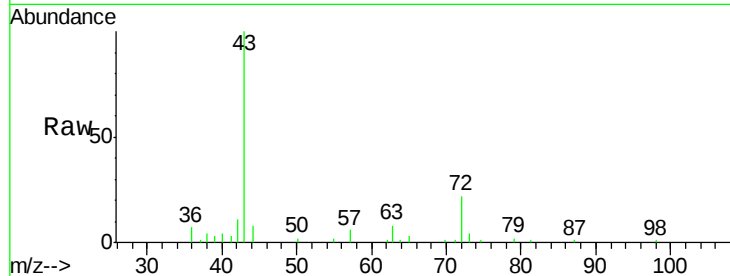
Acq: 14 Feb 2019 23:34

Tgt Ion: 43 Resp: 35839

Ion Ratio Lower Upper

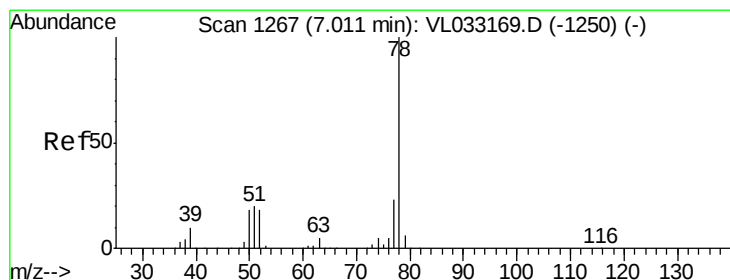
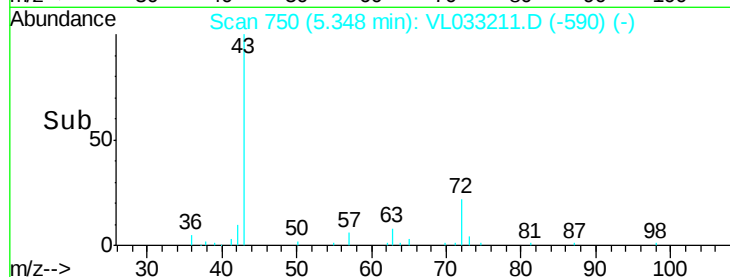
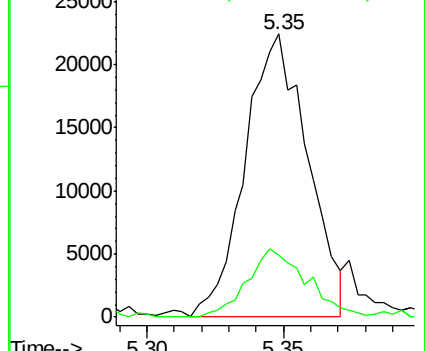
43 100

72 23.6 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.183 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.01 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

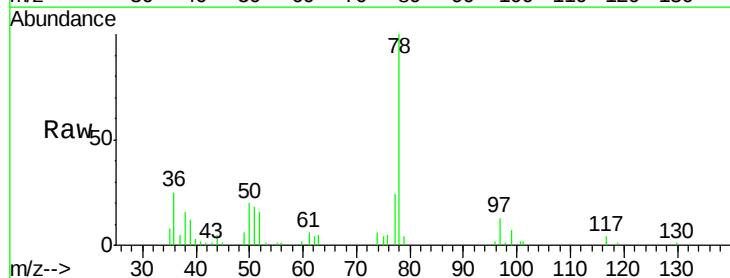
Tgt Ion: 78 Resp: 39001

Ion Ratio Lower Upper

78 100

77 23.7 18.0 27.0

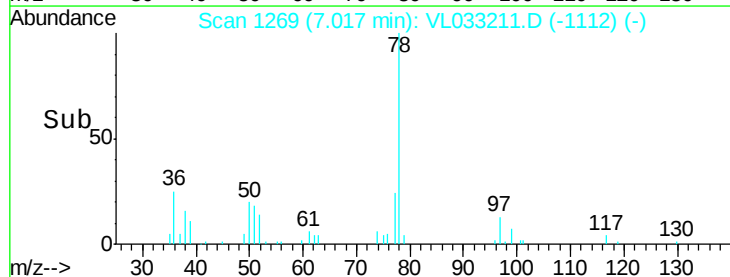
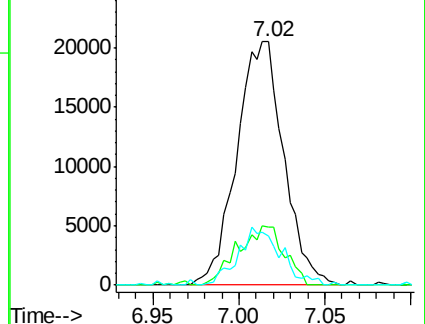
50 20.0 14.2 21.2

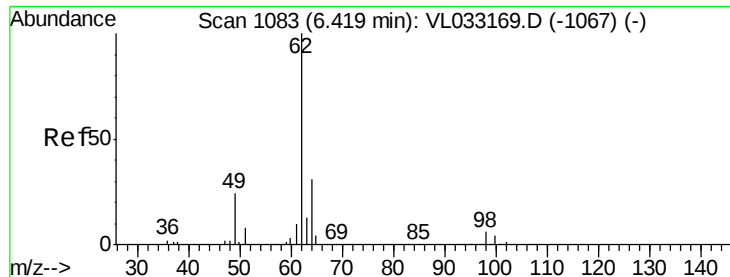


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.498 ppbv

RT: 6.42 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VL033211.D

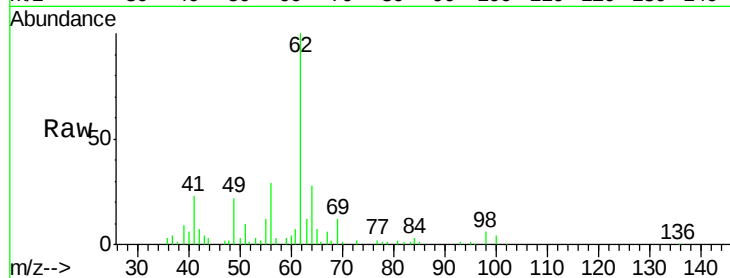
Acq: 14 Feb 2019 23:34

Tgt Ion: 62 Resp: 58763

Ion Ratio Lower Upper

62 100

98 0.0 4.7 7.1#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.42

40000

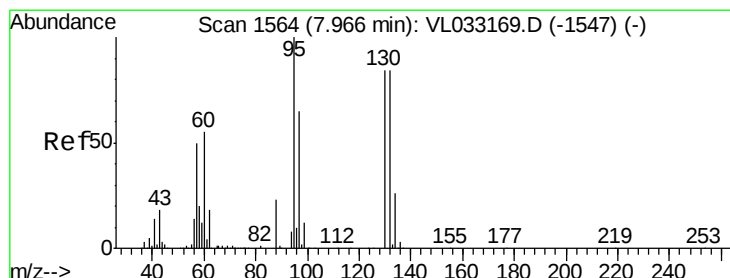
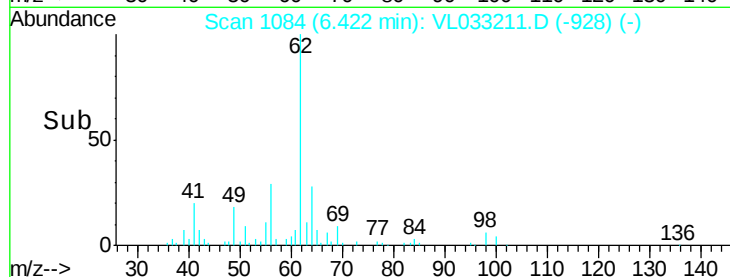
30000

20000

10000

0

Time--> 6.35 6.40 6.45



#38

Trichloroethene

Concen: 1.184 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion: 130 Resp: 107899

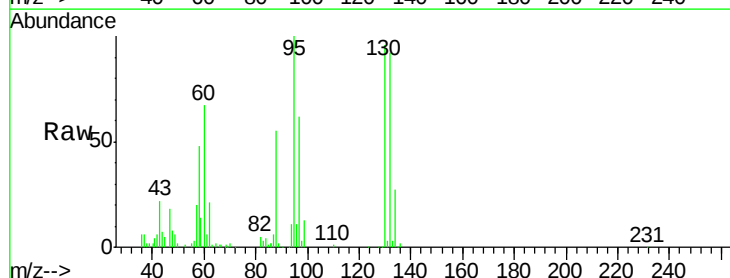
Ion Ratio Lower Upper

130 100

95 101.0 95.5 143.3

132 93.4 80.0 120.0

97 61.4 62.2 93.2#



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

100000

80000

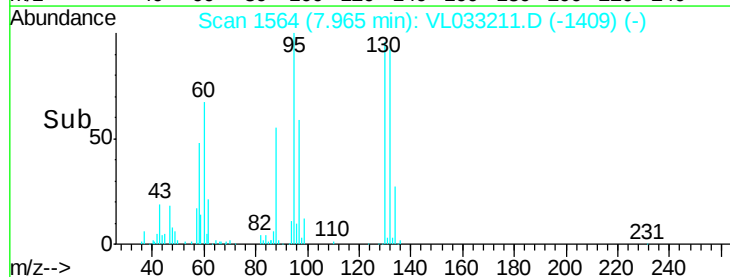
60000

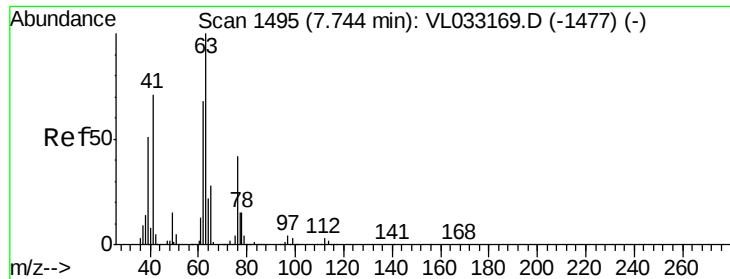
40000

20000

0

Time--> 7.90 7.95 8.00





#39

1,2-Dichloropropane

Concen: 6.751 ppbv

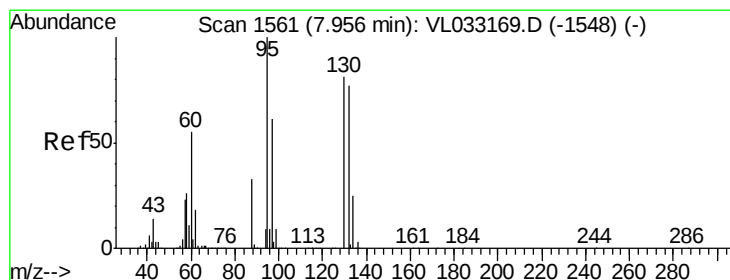
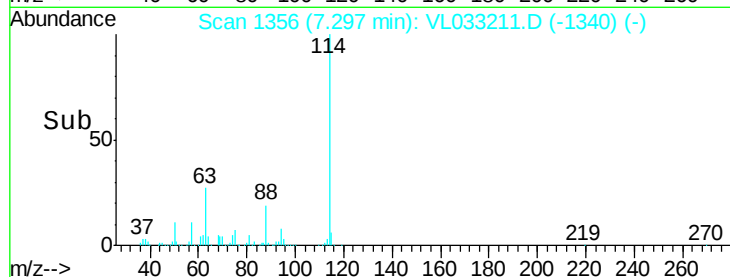
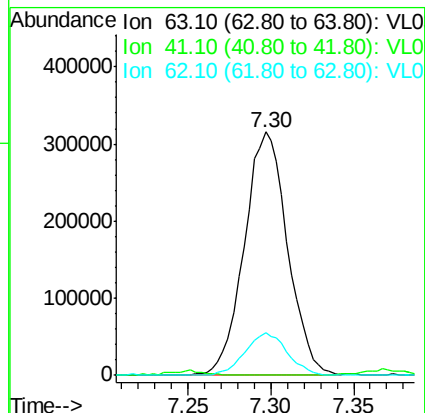
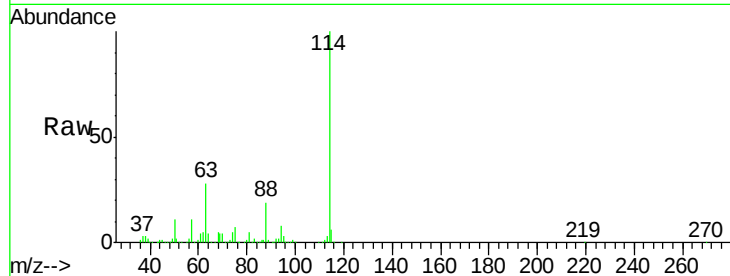
RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion:	63	Resp:	567436
Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	17.4	54.2	81.4#



#40

1,4-Dioxane

Concen: 1.716 ppbv

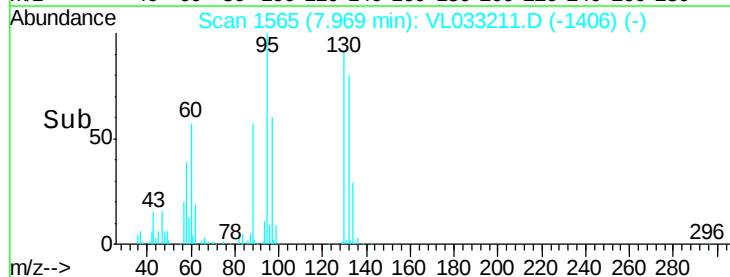
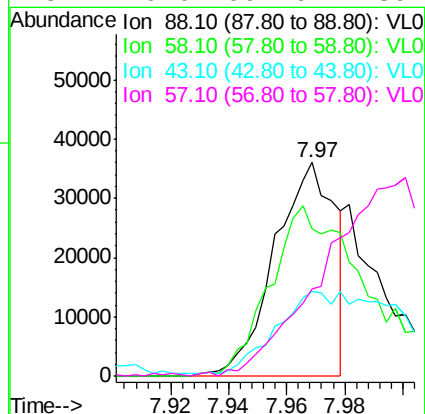
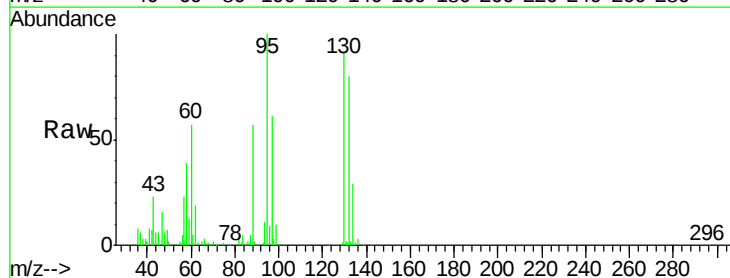
RT: 7.97 min Scan# 1565

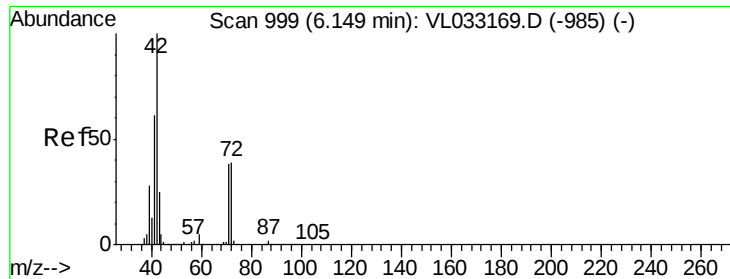
Delta R.T. 0.01 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion:	88	Resp:	52412
Ion	Ratio	Lower	Upper
88	100		
58	139.1	106.6	160.0
43	91.4	220.2	330.2#
57	0.0	992.6	1489.0#





#41

Tetrahydrofuran

Concen: 0.096 ppbv

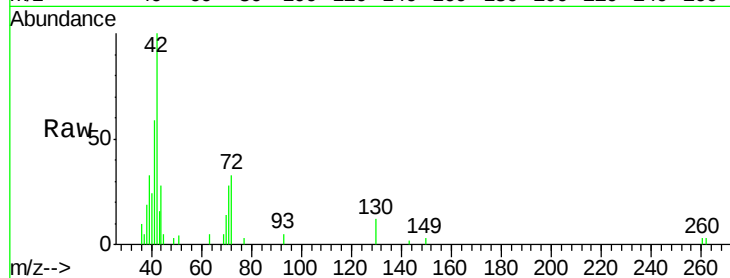
RT: 6.17 min Scan# 1007

Delta R.T. 0.03 min

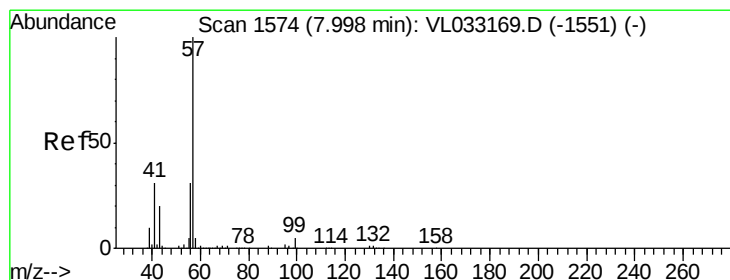
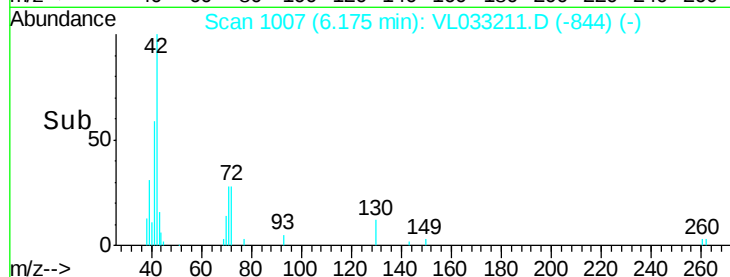
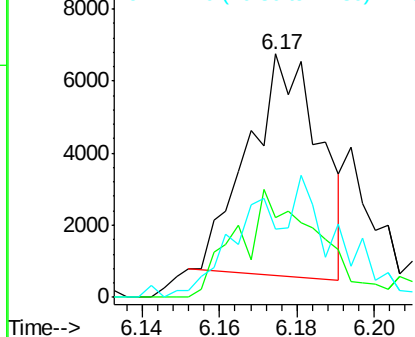
Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion:	42	Resp:	7926
Ion	Ratio	Lower	Upper
42	100		
72	56.3	31.6	47.4#
71	69.2	30.3	45.5#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.250 ppbv

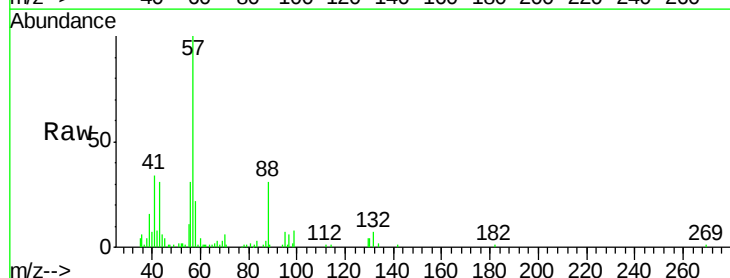
RT: 8.00 min Scan# 1575

Delta R.T. 0.00 min

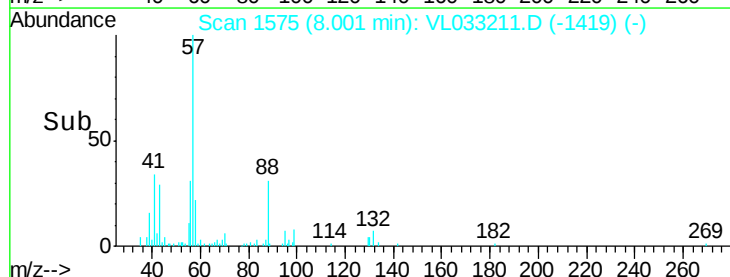
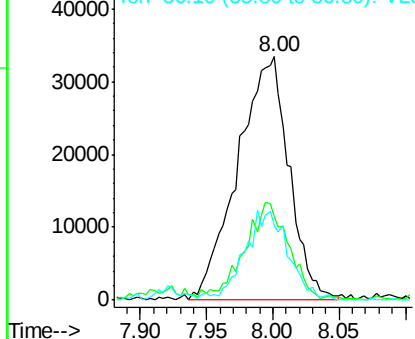
Lab File: VL033211.D

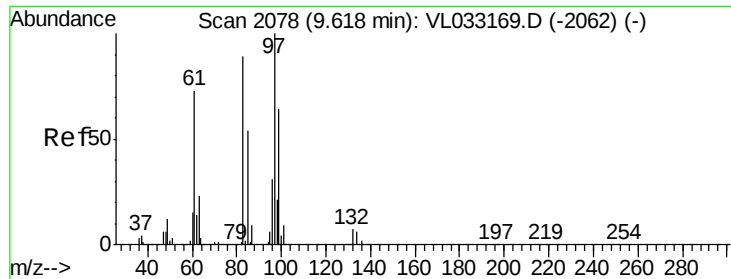
Acq: 14 Feb 2019 23:34

Tgt Ion:	57	Resp:	90037
Ion	Ratio	Lower	Upper
57	100		
41	35.6	25.1	37.7
56	31.1	24.5	36.7



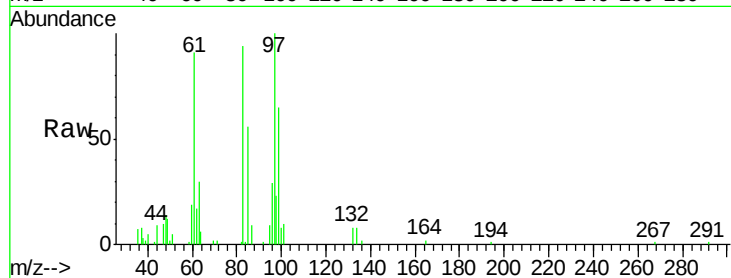
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



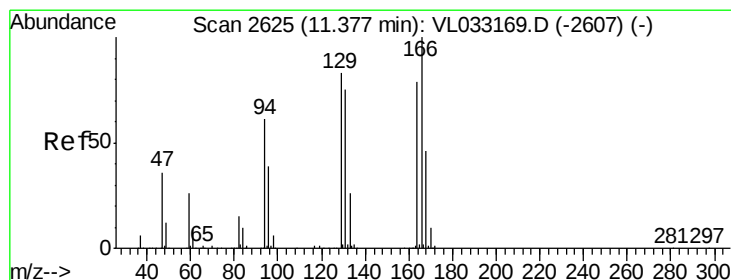
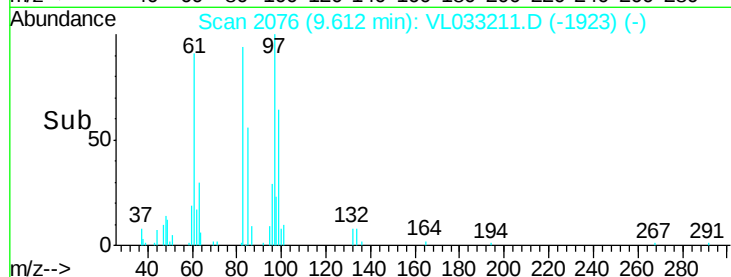
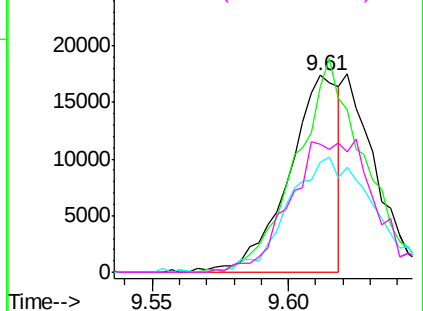


#47
 1,1,2-Trichloroethane
 Concen: 0.254 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

Tgt Ion:	97	Resp:	22198
Ion	Ratio	Lower	Upper
97	100		
83	94.3	71.4	107.2
85	55.0	43.5	65.3
99	64.9	51.4	77.0

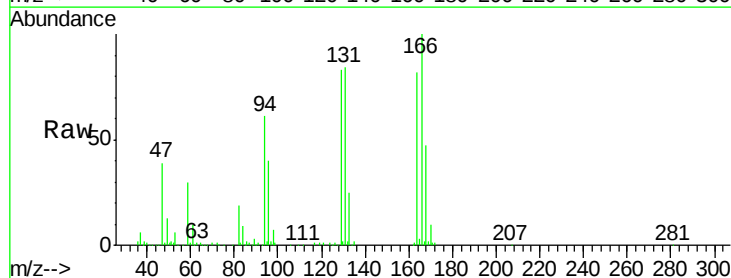


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

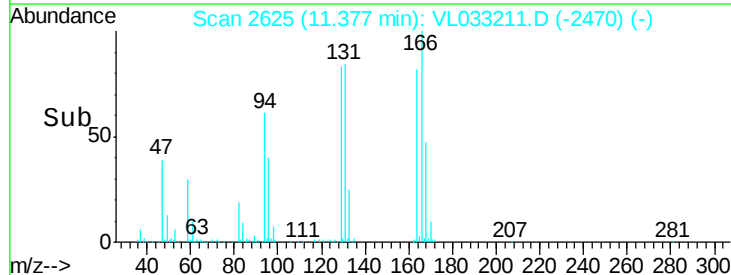
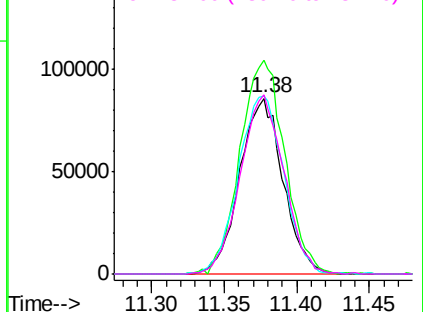


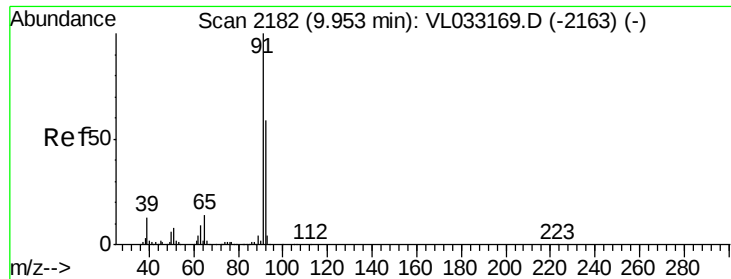
#52
 Tetrachloroethene
 Concen: 2.182 ppbv
 RT: 11.38 min Scan# 2625
 Delta R.T. -0.00 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

Tgt Ion:	164	Resp:	178458
Ion	Ratio	Lower	Upper
164	100		
166	121.3	100.9	151.3
129	102.6	83.9	125.9
131	104.8	76.2	114.2



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: 0.534 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033211.D

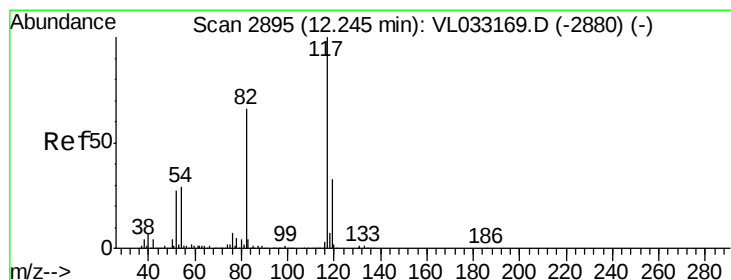
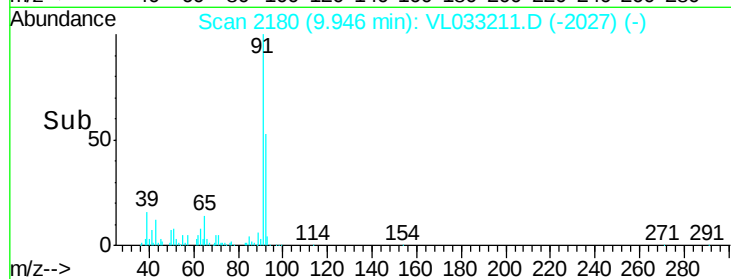
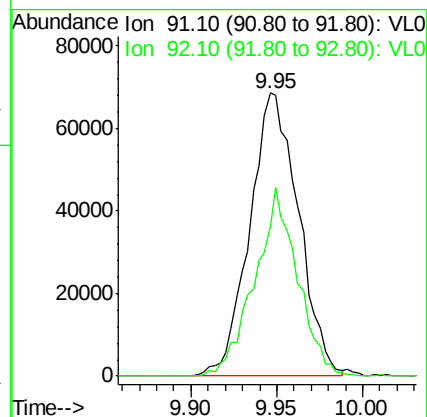
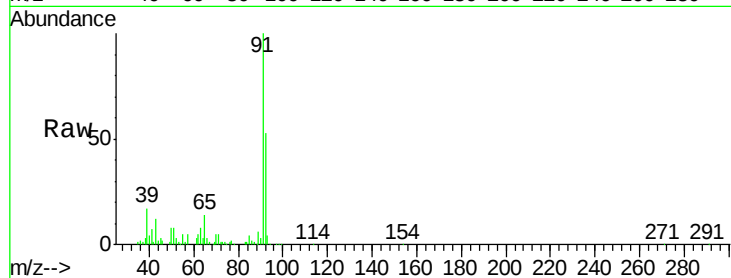
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 134629

Ion Ratio Lower Upper

91 100

92 58.6 48.0 72.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

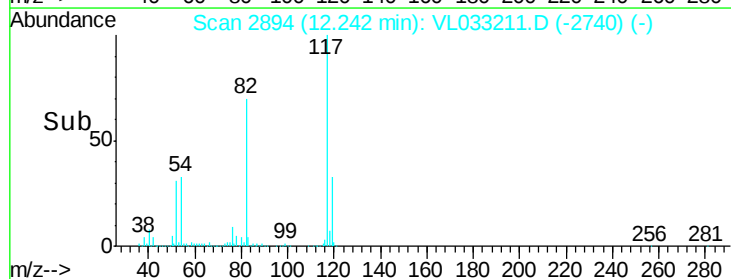
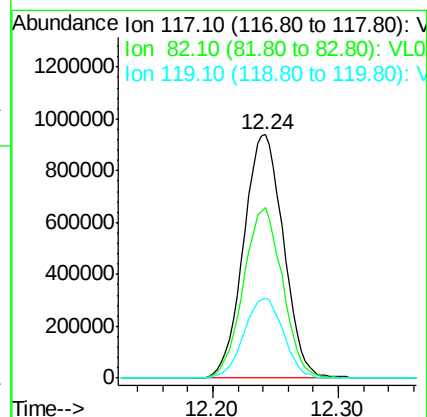
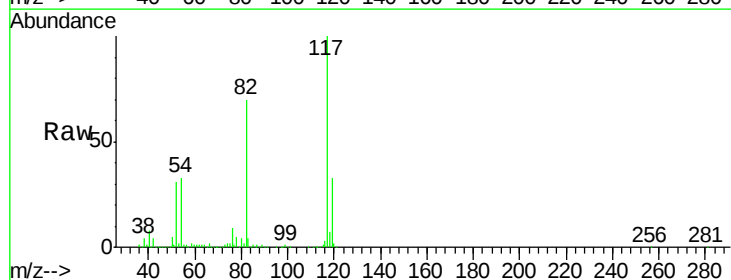
Tgt Ion: 117 Resp: 2074311

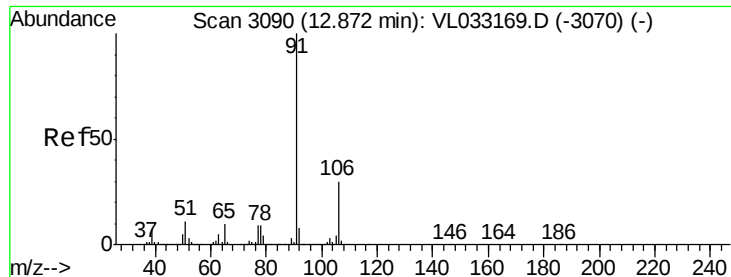
Ion Ratio Lower Upper

117 100

82 68.7 49.5 74.3

119 32.7 24.4 36.6





#58

Ethyl Benzene

Concen: 0.207 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033211.D

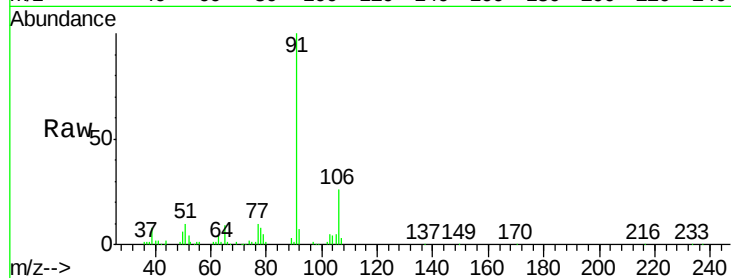
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 69440

Ion Ratio Lower Upper

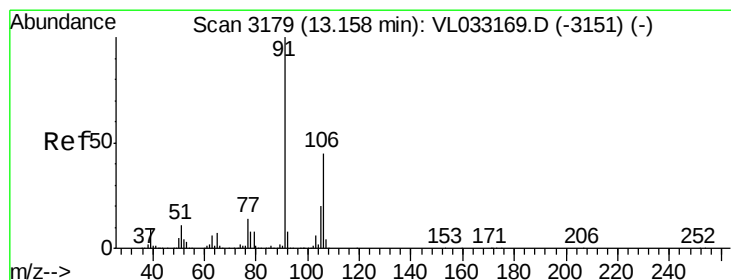
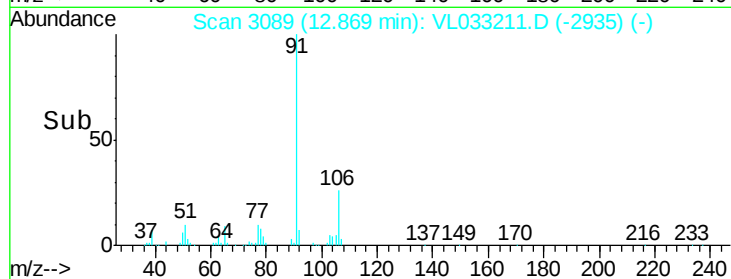
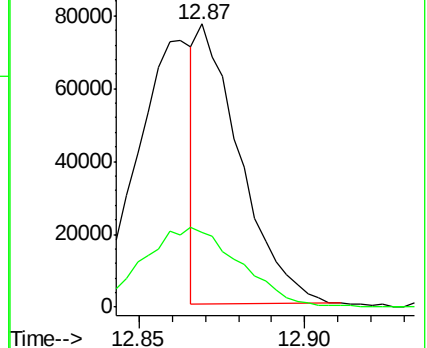
91 100

106 26.2 23.8 35.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 2.704 ppbv

RT: 13.12 min Scan# 3168

Delta R.T. -0.04 min

Lab File: VL033211.D

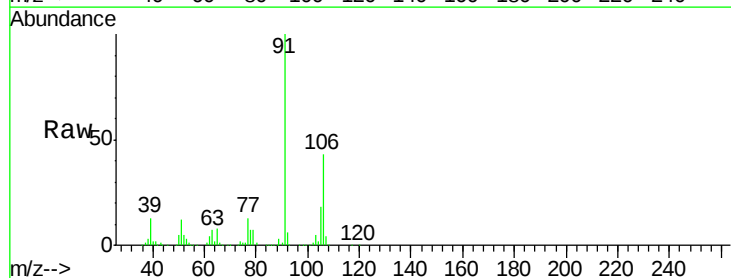
Acq: 14 Feb 2019 23:34

Tgt Ion: 91 Resp: 757562

Ion Ratio Lower Upper

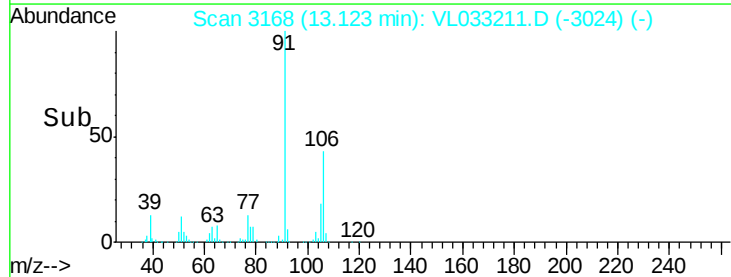
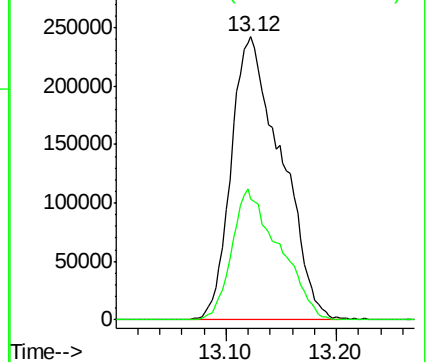
91 100

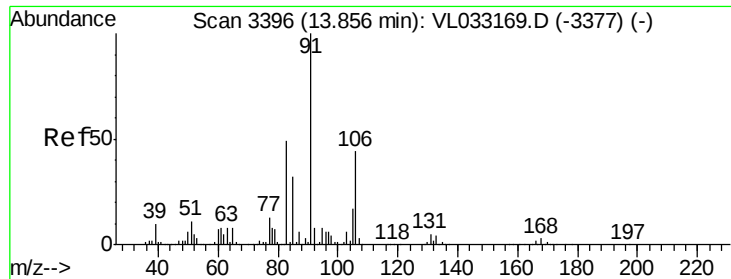
106 44.1 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

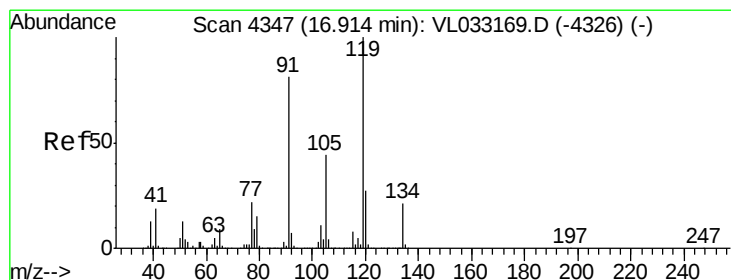
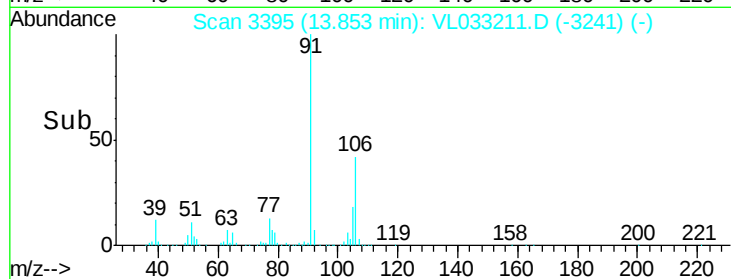
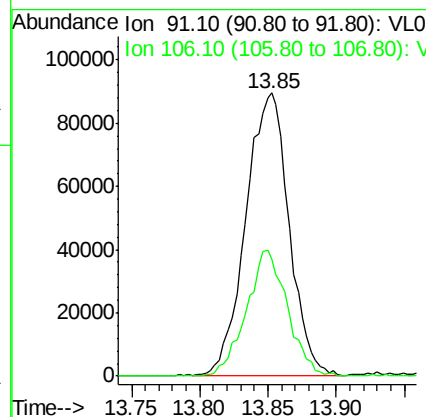
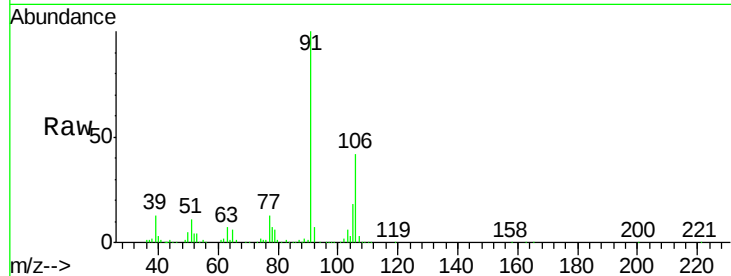
Ion 106.10 (105.80 to 106.80): V





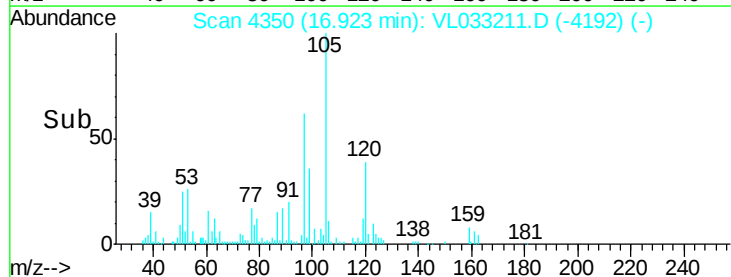
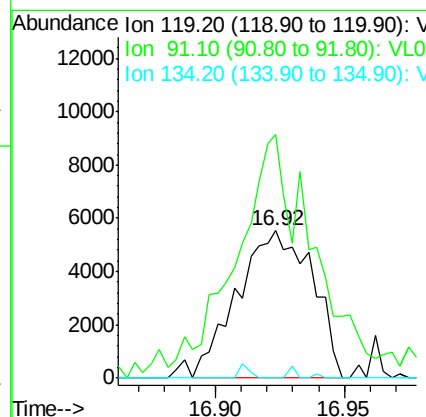
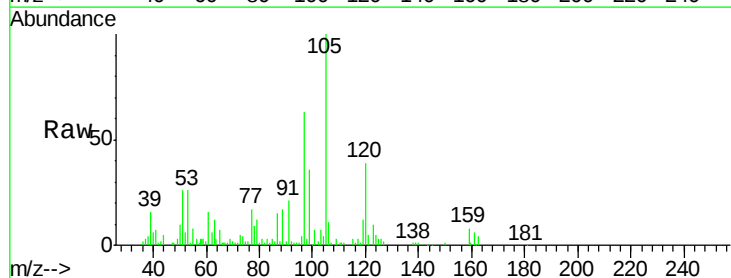
#60
o-Xylene
Concen: 0.719 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

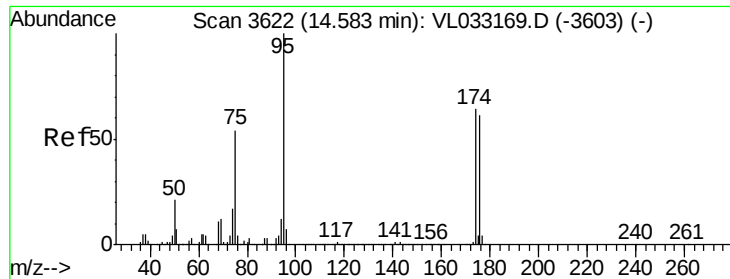
Tgt Ion: 91 Resp: 195977
Ion Ratio Lower Upper
91 100
106 42.5 21.8 65.3



#65
tert-Butylbenzene
Concen: 0.033 ppbv
RT: 16.92 min Scan# 4350
Delta R.T. 0.01 min
Lab File: VL033211.D
Acq: 14 Feb 2019 23:34

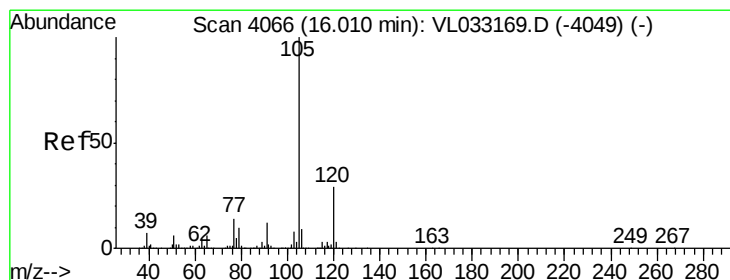
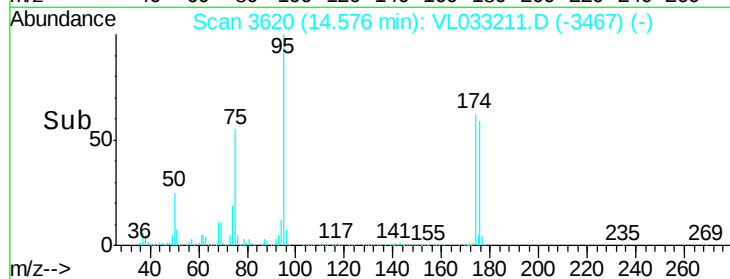
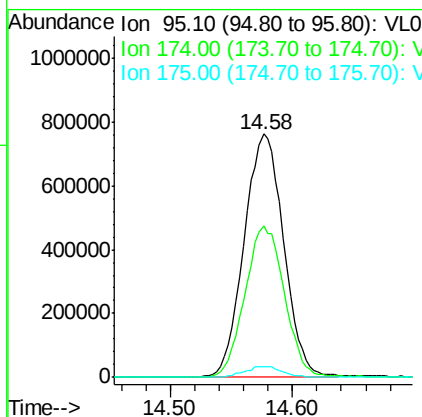
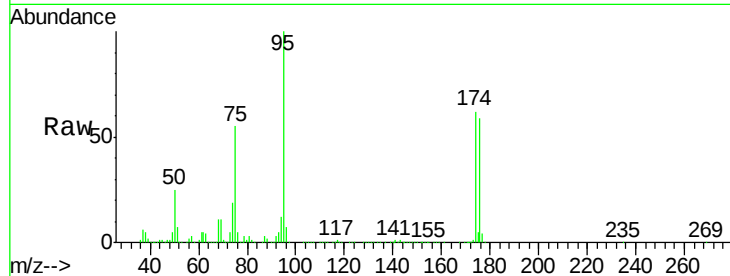
Tgt Ion: 119 Resp: 11210
Ion Ratio Lower Upper
119 100
91 186.7 65.7 98.5#
134 2.3 15.8 23.6#





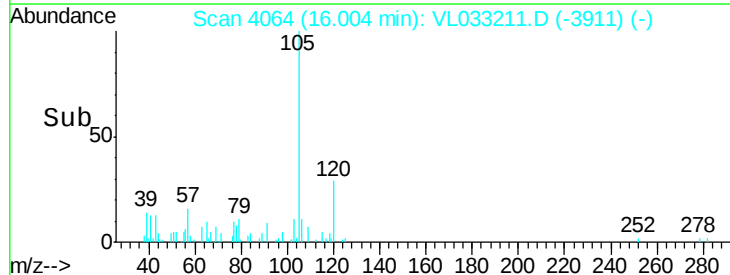
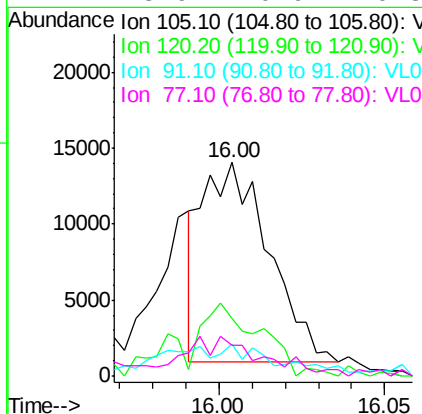
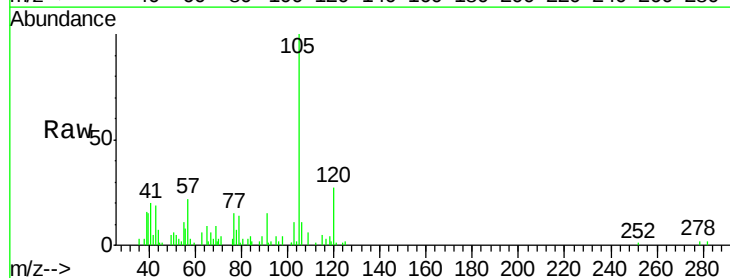
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.671 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

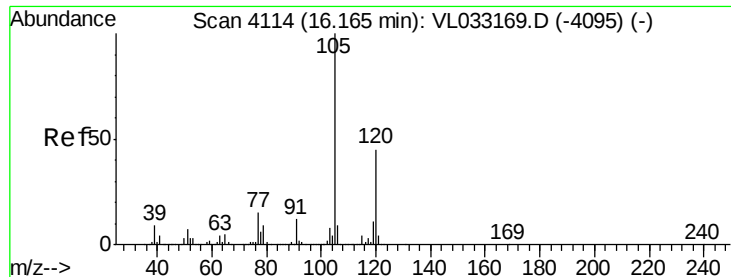
Tgt Ion: 95 Resp: 1704699
 Ion Ratio Lower Upper
 95 100
 174 62.5 51.2 76.8
 175 4.5 3.8 5.6



#72
 4-Ethyltoluene
 Concen: 0.058 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. -0.01 min
 Lab File: VL033211.D
 Acq: 14 Feb 2019 23:34

Tgt Ion: 105 Resp: 18219
 Ion Ratio Lower Upper
 105 100
 120 43.0 23.1 34.7#
 91 26.8 9.8 14.6#
 77 25.9 10.9 16.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.046 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VL033211.D

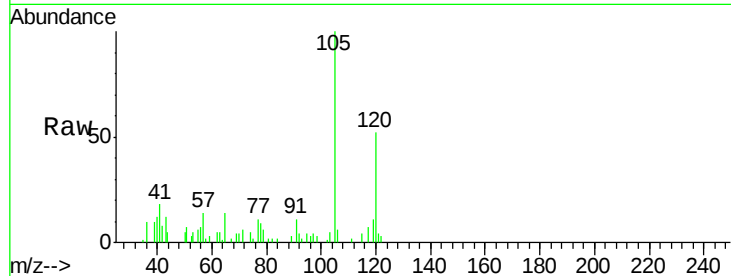
Acq: 14 Feb 2019 23:34

Tgt Ion:105 Resp: 13814

Ion Ratio Lower Upper

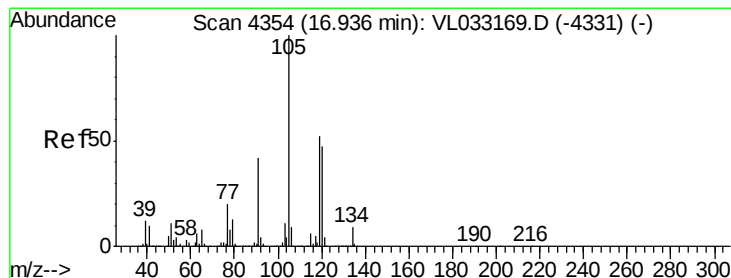
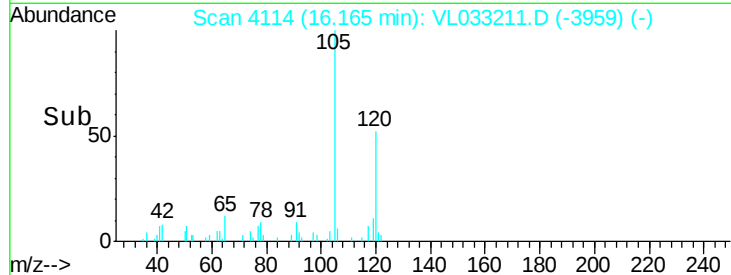
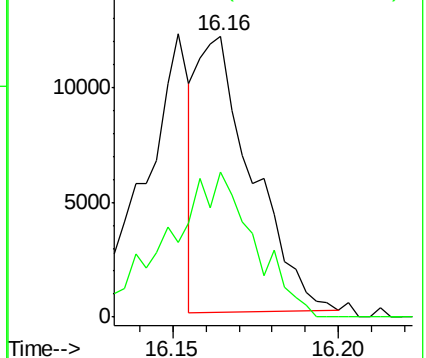
105 100

120 57.3 36.2 54.4#



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: 0.175 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL033211.D

Acq: 14 Feb 2019 23:34

Tgt Ion:105 Resp: 54613

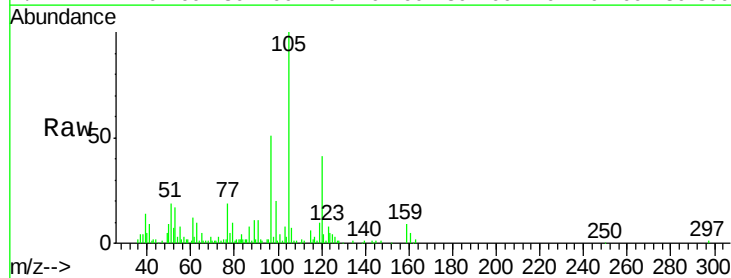
Ion Ratio Lower Upper

105 100

120 39.5 37.9 56.9

91 10.3 34.0 51.0#

77 18.7 15.7 23.5



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

