

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\
 Data File : VL032030.D
 Acq On : 1 Jun 2018 20:55
 Operator : SY/AP
 Sample : J3137-01 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Quant Time: Jun 02 02:03:42 2018
 Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:31:35 2018
 QLast Update : Fri Jun 01 02:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1109441	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2232053	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2266406	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	1780184	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

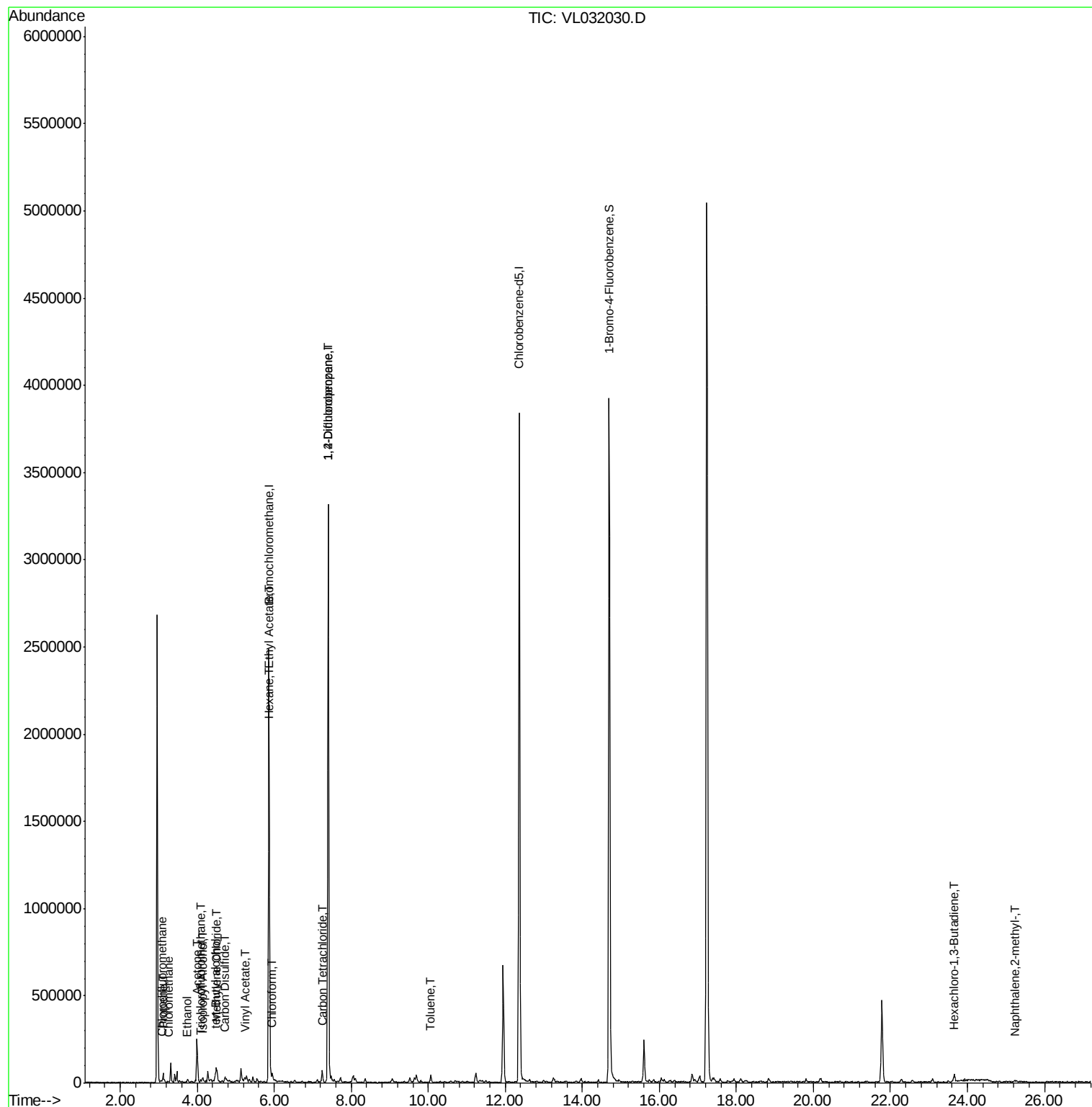
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.08	51	10070	0.10	ppbv #	89
4) Chloromethane	3.25	50	1891	0.04	ppbv #	83
9) Propene	3.11	41	7207	0.21	ppbv #	51
11) Trichlorofluoromethane	4.09	101	7893	0.04	ppbv	97
13) Ethanol	3.73	45	1880	0.14	ppbv #	38
15) Acetone	3.99	43	252852	1.89	ppbv	97
17) tert-Butyl alcohol	4.47	59	24695	0.38	ppbv #	90
19) Isopropyl Alcohol	4.13	45	19647	0.22	ppbv #	95
20) Methylene Chloride	4.50	84	23152	0.38	ppbv #	84
23) Vinyl Acetate	5.25	43	13776	0.08	ppbv #	87
25) Ethyl Acetate	5.88	43	11344	0.04	ppbv #	82
26) Hexane	5.88	57	10346	0.08	ppbv #	48
27) Carbon Disulfide	4.72	76	19558	0.12	ppbv #	63
29) Chloroform	5.95	83	21782	0.10	ppbv	97
35) Carbon Tetrachloride	7.24	117	14910	0.08	ppbv	91
39) 1,2-Dichloropropane	7.40	63	603816	8.35	ppbv #	21
53) Toluene	10.07	91	25282	0.12	ppbv	97
78) Hexachloro-1,3-Butadiene	23.66	225	2324	0.03	ppbv #	19
80) Naphthalene,2-methyl-	25.23	142	1964	0.05	ppbv #	36

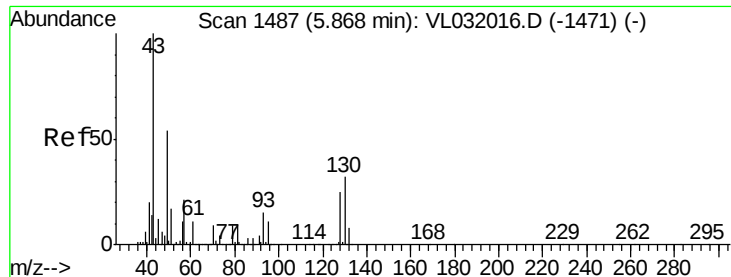
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA_L\DATA\VL060118\
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SS-1

Quant Time: Jun 02 02:03:42 2018
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL053118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:31:35 2018
QLast Update : Fri Jun 01 02:31:35 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.86 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampled :

SS-1

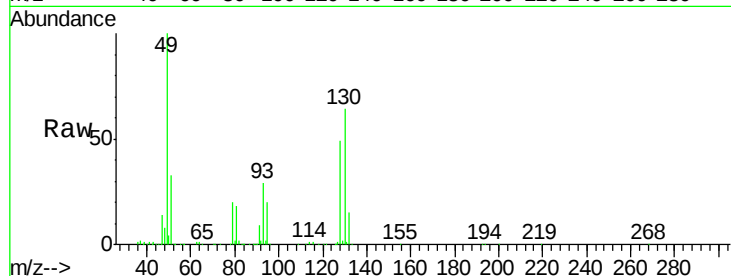
Tgt Ion: 49 Resp: 1109441

Ion Ratio Lower Upper

49 100

128 50.0 24.1 72.3

130 64.1 30.9 92.8



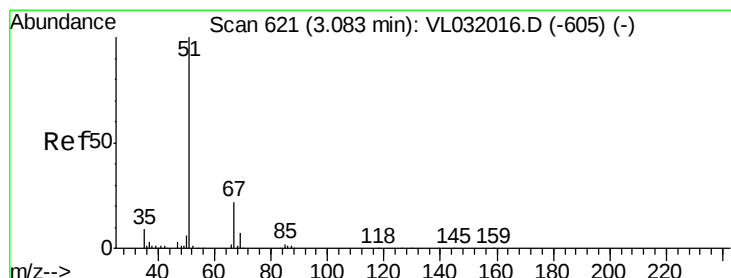
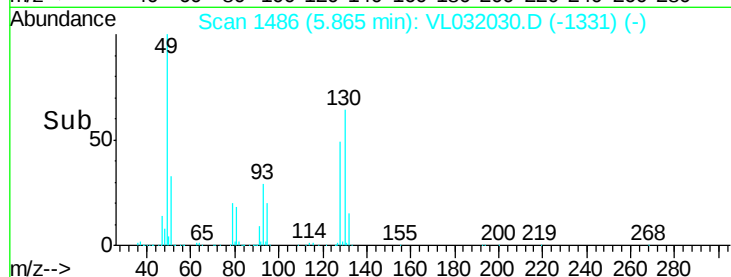
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.86

Time-->



#3

Chlorodifluoromethane

Concen: 0.10 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032030.D

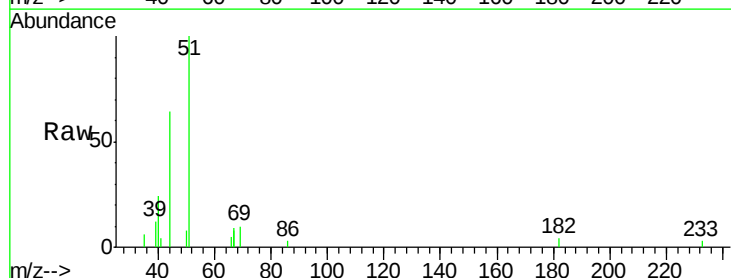
Acq: 1 Jun 2018 20:55

Tgt Ion: 51 Resp: 10070

Ion Ratio Lower Upper

51 100

67 16.2 17.2 25.8#

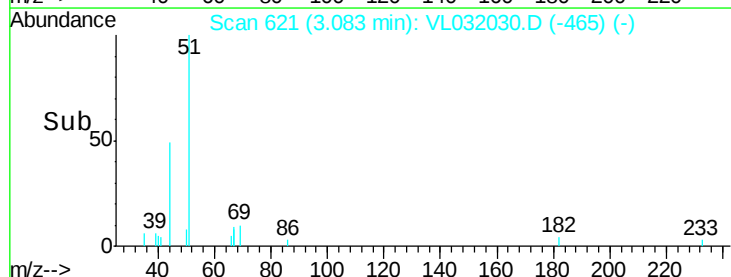


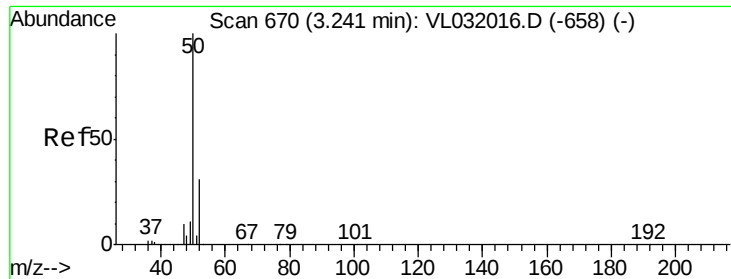
Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.08

Time-->





#4

Chloromethane

Concen: 0.04 ppbv

RT: 3.25 min Scan# 672

Delta R.T. 0.01 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

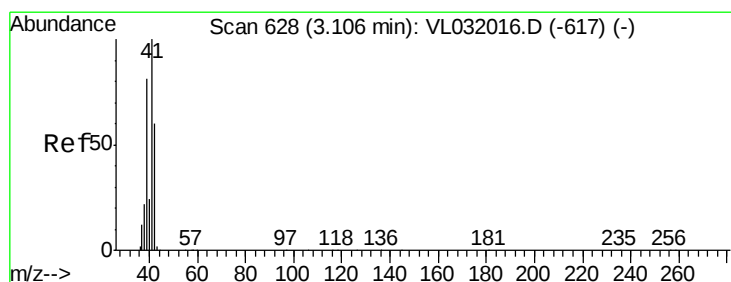
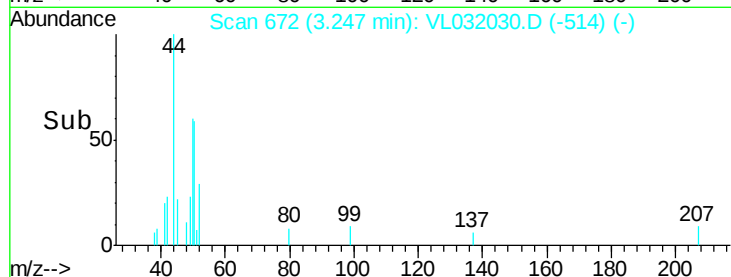
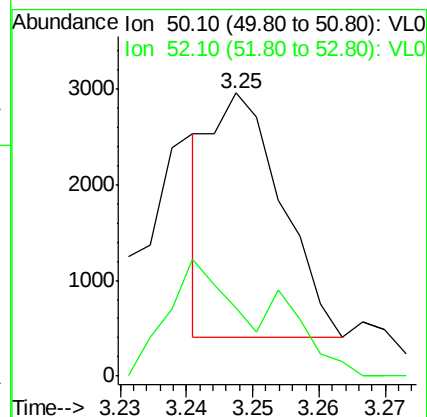
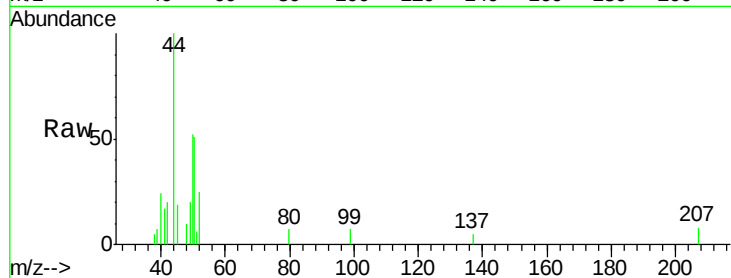
SS-1

Tgt Ion: 50 Resp: 1891

Ion Ratio Lower Upper

50 100

52 22.1 25.0 37.6#



#9

Propene

Concen: 0.21 ppbv

RT: 3.11 min Scan# 629

Delta R.T. 0.00 min

Lab File: VL032030.D

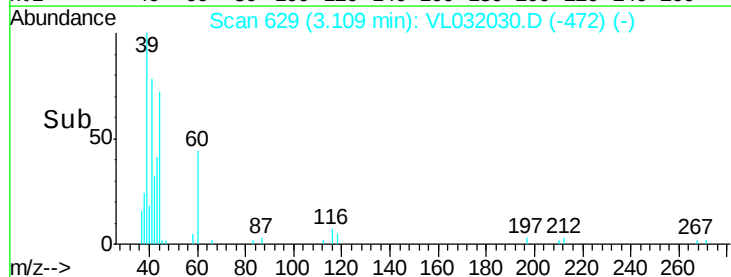
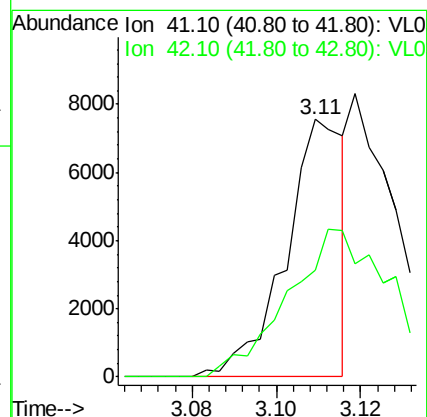
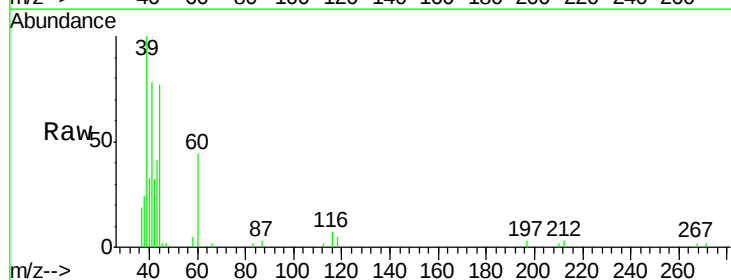
Acq: 1 Jun 2018 20:55

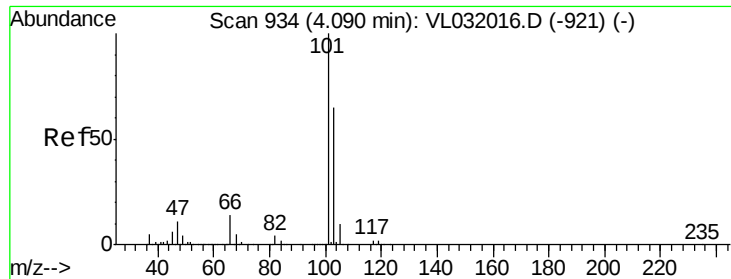
Tgt Ion: 41 Resp: 7207

Ion Ratio Lower Upper

41 100

42 107.5 54.4 81.6#





#11

Trichlorofluoromethane

Concen: 0.04 ppbv

RT: 4.09 min Scan# 935

Delta R.T. 0.00 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampled :

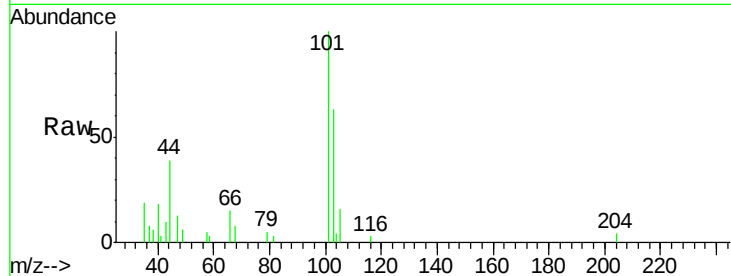
SS-1

Tgt Ion: 101 Resp: 7893

Ion Ratio Lower Upper

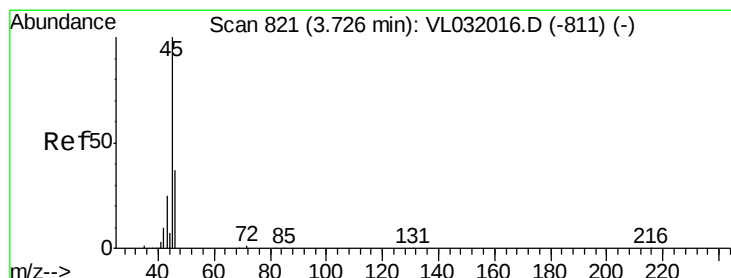
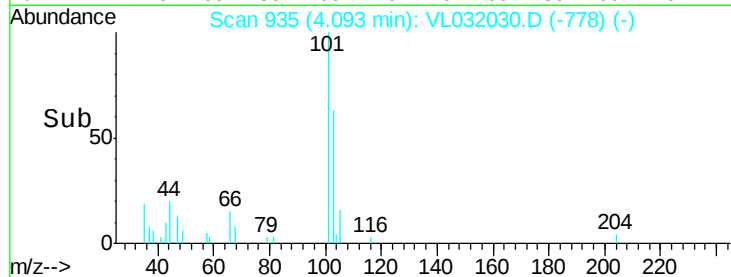
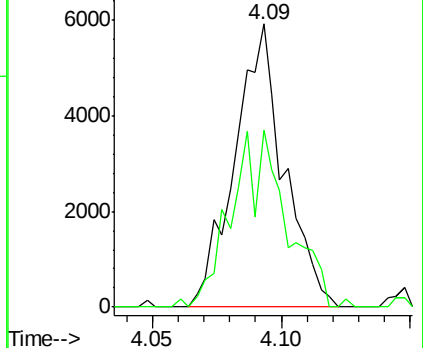
101 100

103 62.5 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 0.14 ppbv

RT: 3.73 min Scan# 821

Delta R.T. 0.00 min

Lab File: VL032030.D

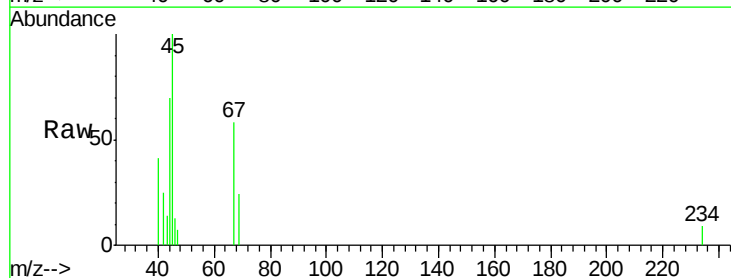
Acq: 1 Jun 2018 20:55

Tgt Ion: 45 Resp: 1880

Ion Ratio Lower Upper

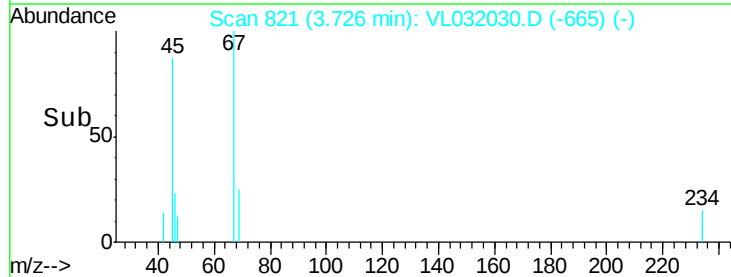
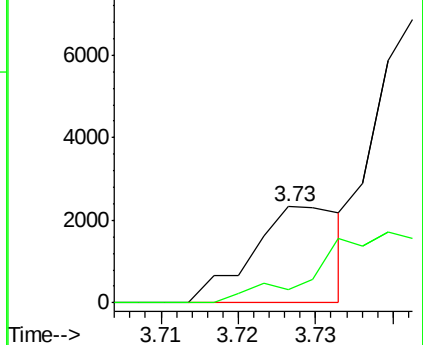
45 100

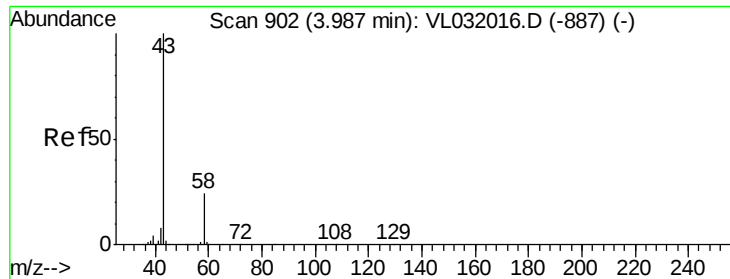
46 0.0 14.9 59.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.89 ppbv

RT: 3.99 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

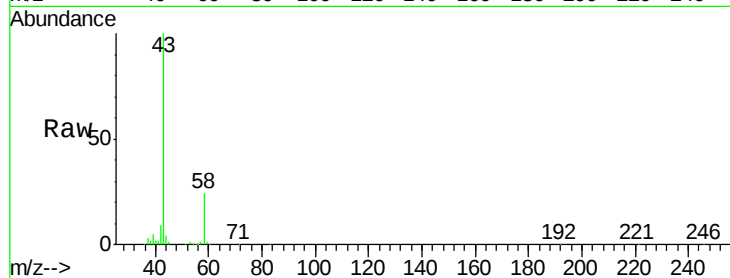
SS-1

Tgt Ion: 43 Resp: 252852

Ion Ratio Lower Upper

43 100

58 27.5 20.7 31.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

150000

100000

50000

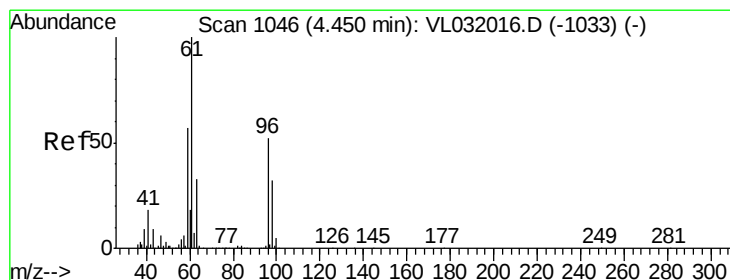
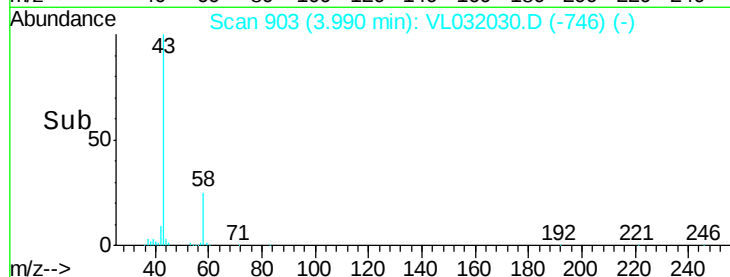
0

Time-->

3.95

4.00

4.05



#17

tert-Butyl alcohol

Concen: 0.38 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. 0.02 min

Lab File: VL032030.D

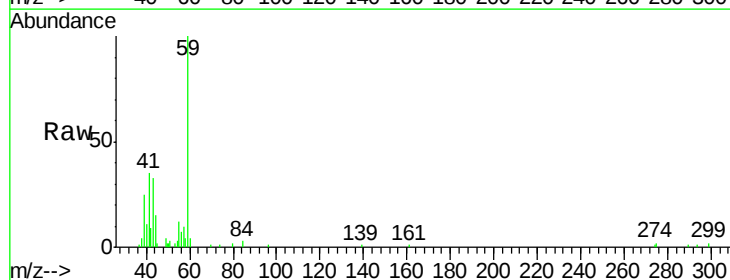
Acq: 1 Jun 2018 20:55

Tgt Ion: 59 Resp: 24695

Ion Ratio Lower Upper

59 100

57 14.3 8.3 12.5#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

20000

15000

10000

5000

0

Time-->

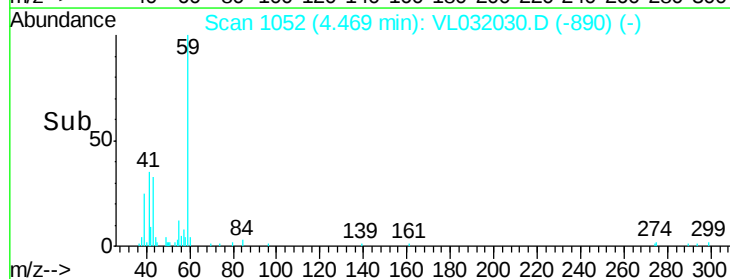
4.42

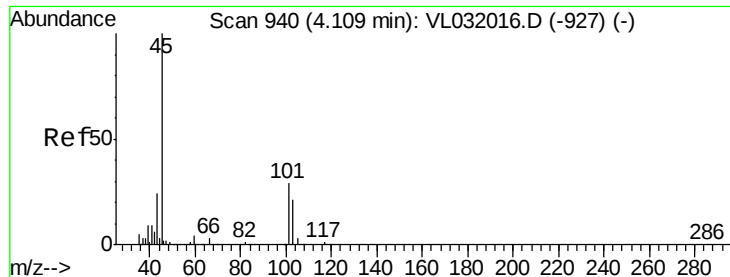
4.44

4.46

4.48

4.50





#19

Isopropyl Alcohol

Concen: 0.22 ppbv

RT: 4.13 min Scan# 948

Delta R.T. 0.03 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

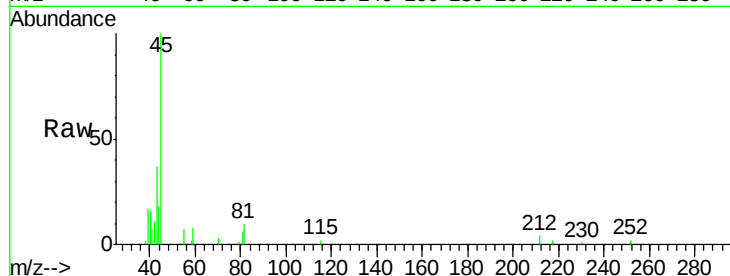
SS-1

Tgt Ion: 45 Resp: 19647

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

15000

10000

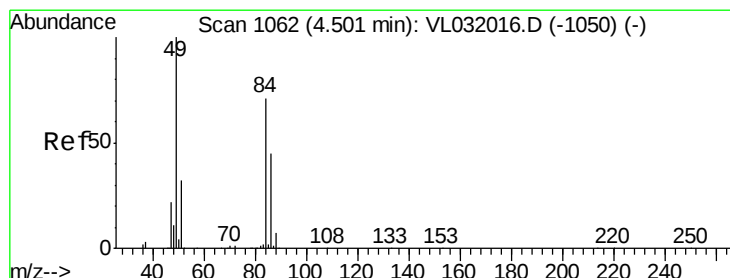
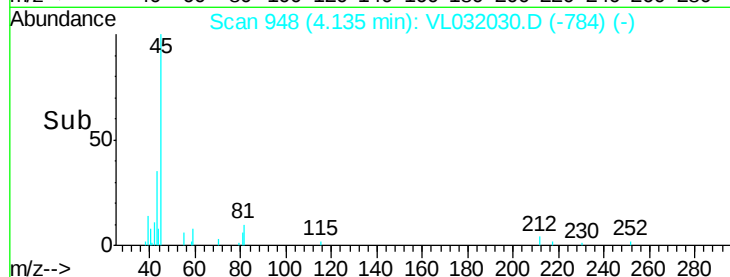
5000

0

Time-->

4.10 4.15

4.13



#20

Methylene Chloride

Concen: 0.38 ppbv

RT: 4.50 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Tgt Ion: 84 Resp: 23152

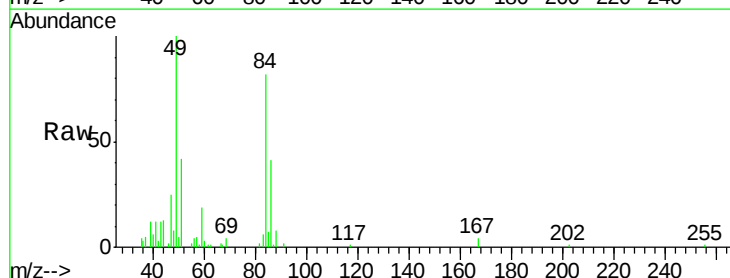
Ion Ratio Lower Upper

84 100

49 119.2 113.0 169.4

51 49.1 36.4 54.6

86 50.3 51.0 76.6#



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

25000

20000

15000

10000

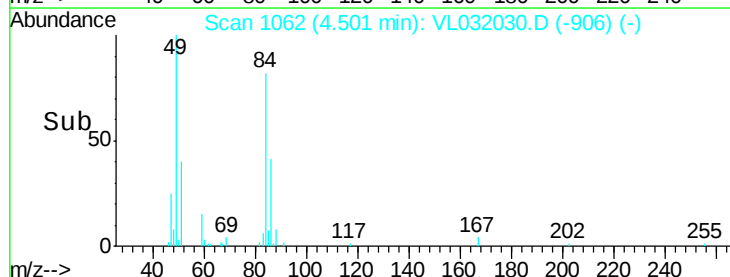
5000

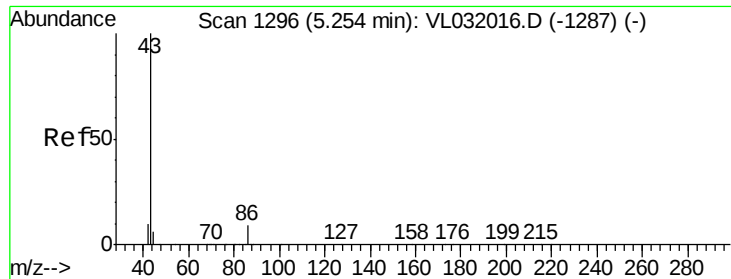
0

Time-->

4.45 4.50 4.55

4.50





#23

Vinyl Acetate

Concen: 0.08 ppbv

RT: 5.25 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 43 Resp: 13776

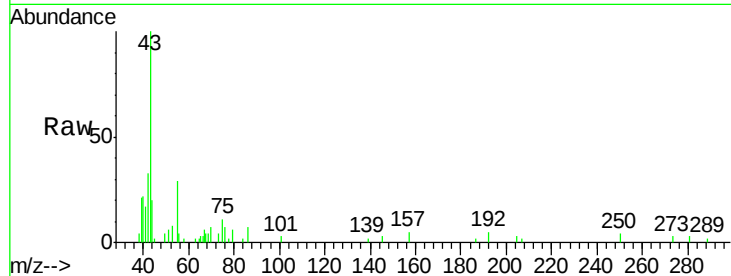
Ion Ratio Lower Upper

43 100

86 8.1 6.2 9.4

42 16.9 8.7 13.1#

44 13.1 4.6 6.8#

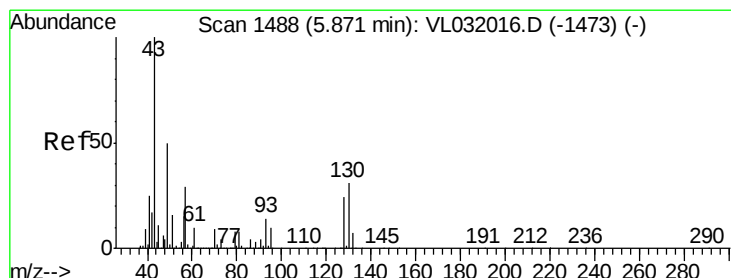
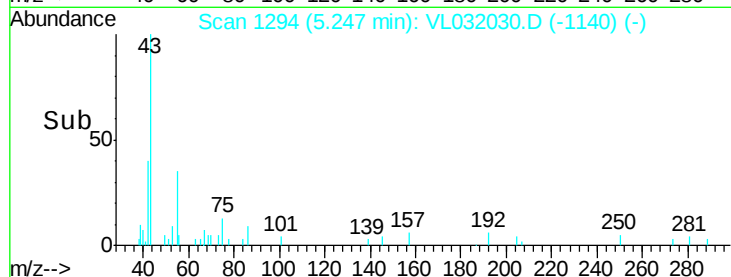
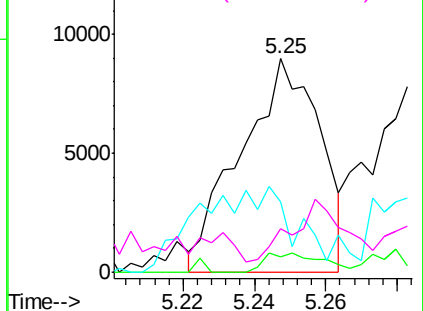


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.04 ppbv

RT: 5.88 min Scan# 1491

Delta R.T. 0.01 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Tgt Ion: 43 Resp: 11344

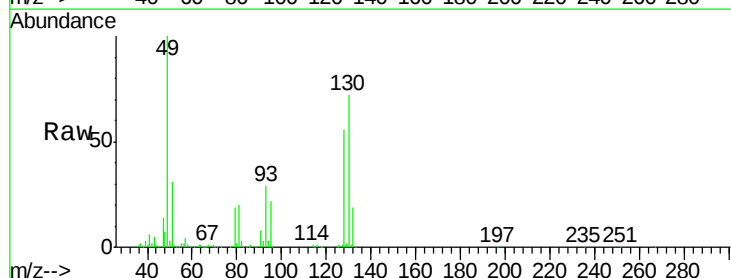
Ion Ratio Lower Upper

43 100

45 6.7 7.8 11.6#

61 0.0 7.4 11.2#

70 0.4 5.9 8.9#

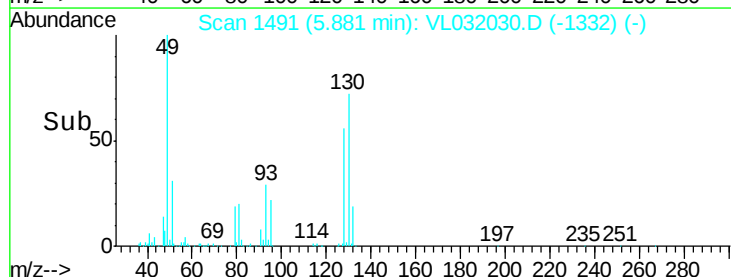
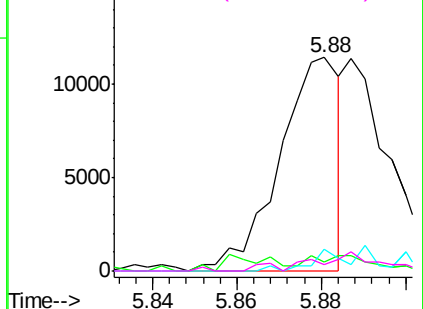


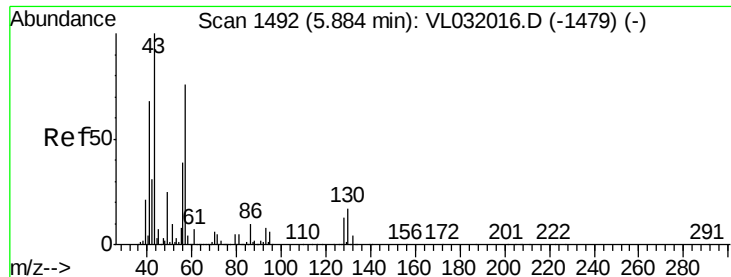
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.08 ppbv

RT: 5.88 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1

Tgt Ion: 57 Resp: 10346

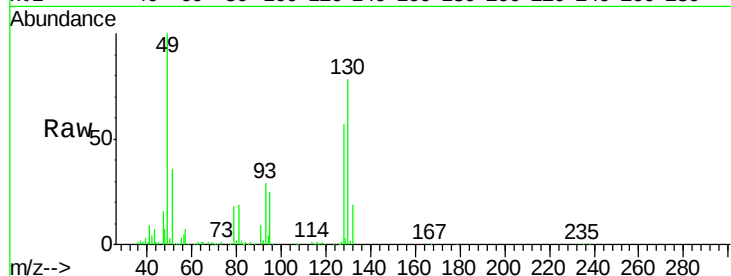
Ion Ratio Lower Upper

57 100

41 218.8 71.4 107.2#

43 204.8 168.6 252.8

56 120.7 42.4 63.6#

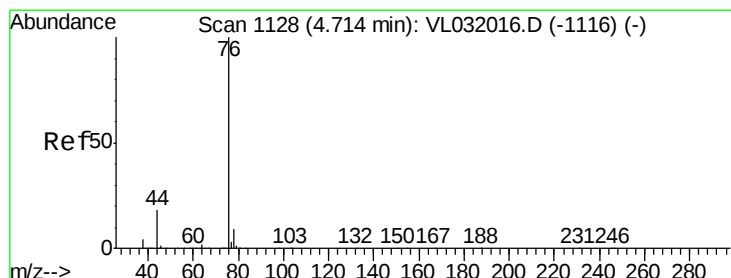
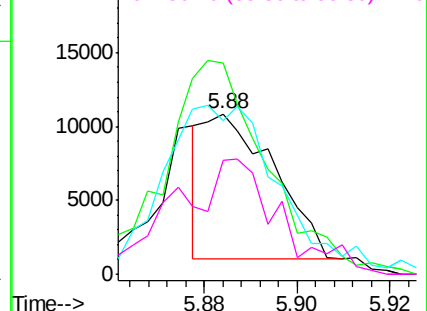
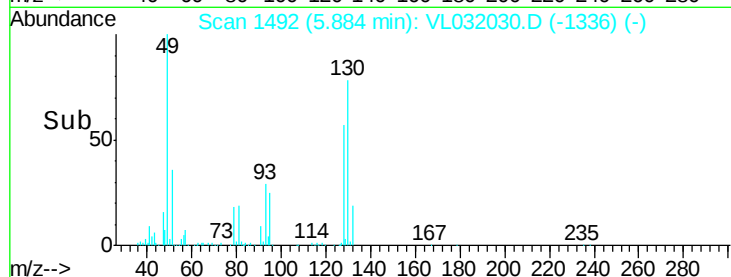


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.12 ppbv

RT: 4.72 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

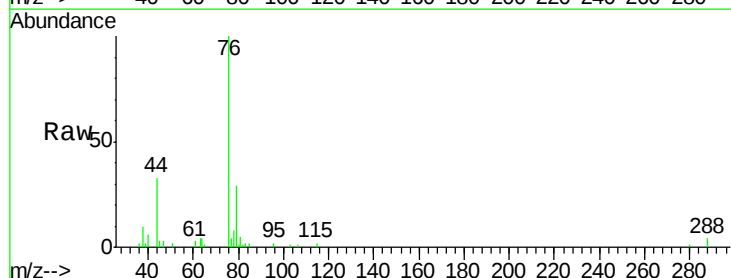
Tgt Ion: 76 Resp: 19558

Ion Ratio Lower Upper

76 100

44 40.0 14.9 22.3#

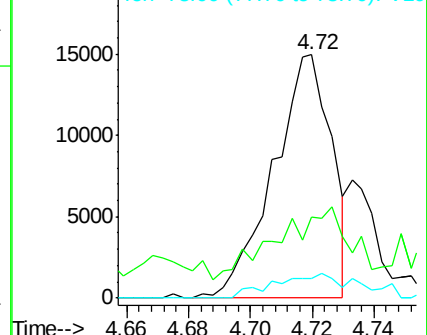
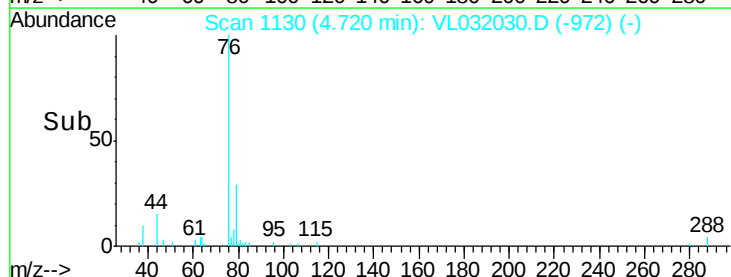
78 15.4 7.6 11.4#

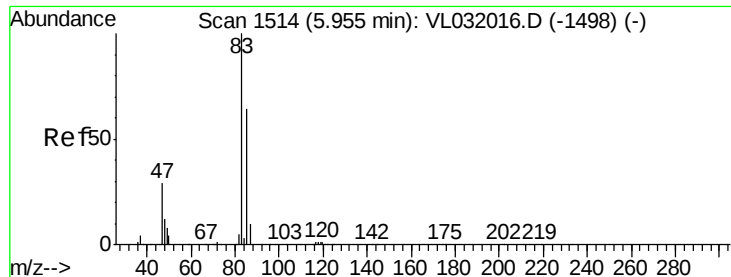


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.10 ppbv

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

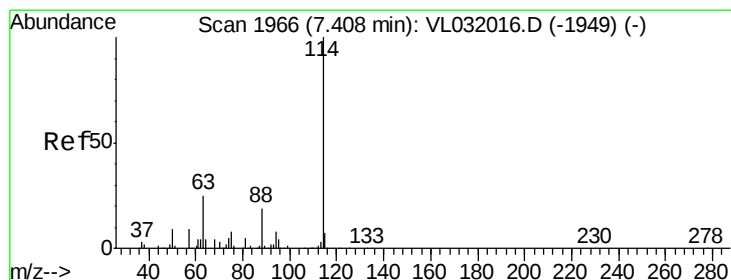
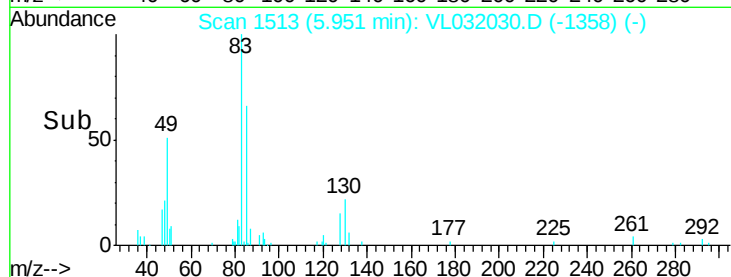
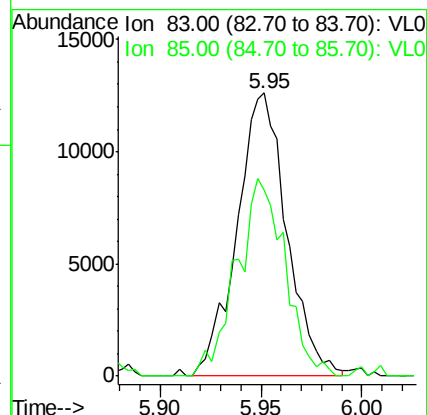
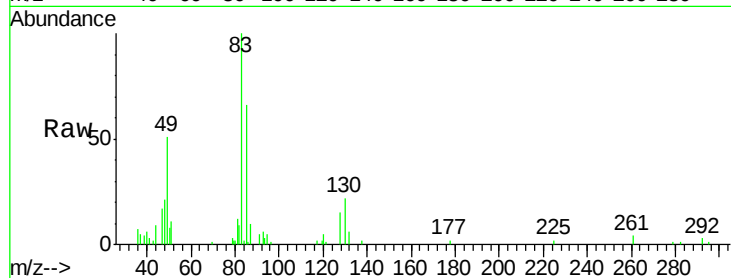
SS-1

Tgt Ion: 83 Resp: 21782

Ion Ratio Lower Upper

83 100

85 65.8 50.9 76.3



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.40 min Scan# 1964

Delta R.T. -0.01 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

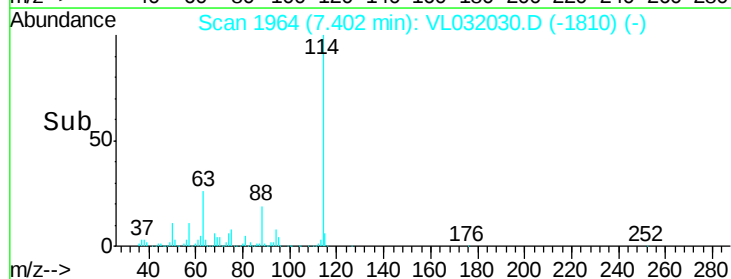
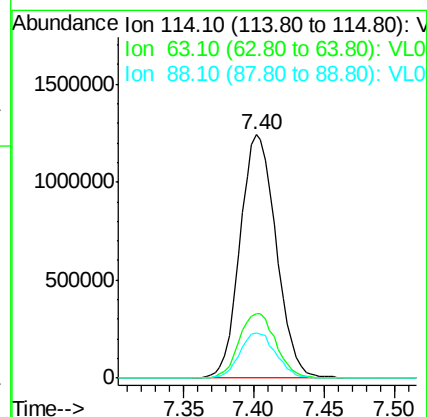
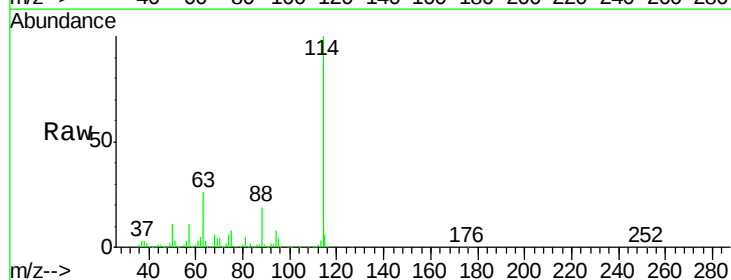
Tgt Ion: 114 Resp: 2232053

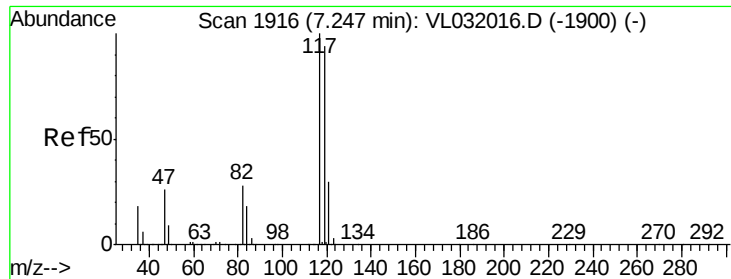
Ion Ratio Lower Upper

114 100

63 27.2 21.1 31.7

88 18.5 14.8 22.2





#35

Carbon Tetrachloride

Concen: 0.08 ppbv

RT: 7.24 min Scan# 1913

Delta R.T. -0.01 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1

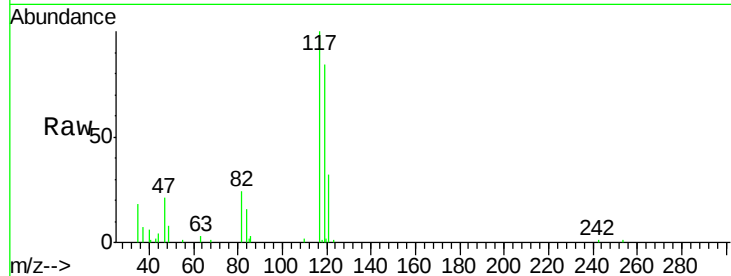
Tgt Ion: 117 Resp: 14910

Ion Ratio Lower Upper

117 100

119 83.3 75.3 112.9

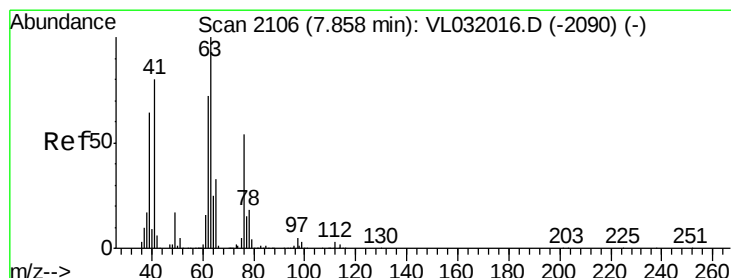
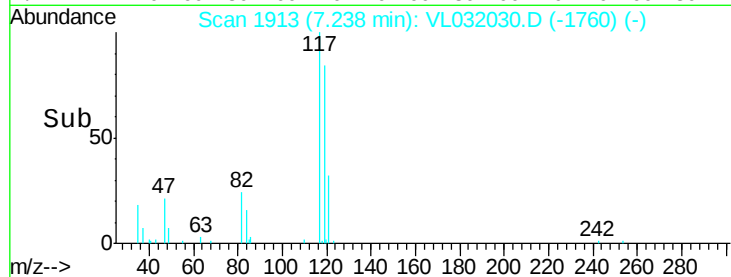
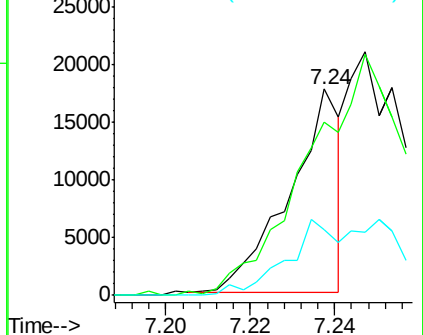
121 32.0 24.1 36.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

1,2-Dichloropropane

Concen: 8.35 ppbv

RT: 7.40 min Scan# 1965

Delta R.T. -0.45 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

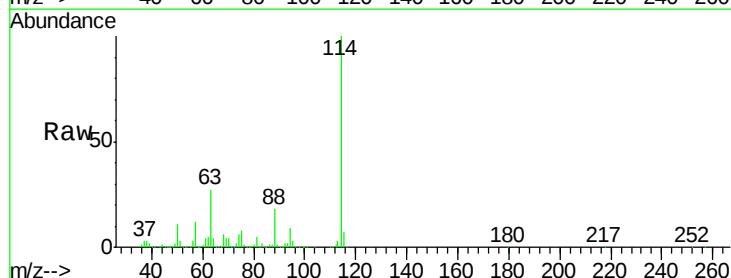
Tgt Ion: 63 Resp: 603816

Ion Ratio Lower Upper

63 100

41 0.0 64.0 96.0#

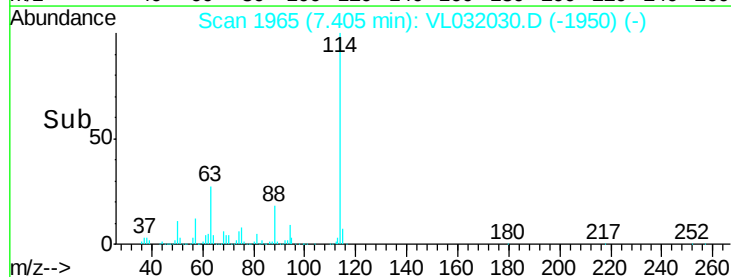
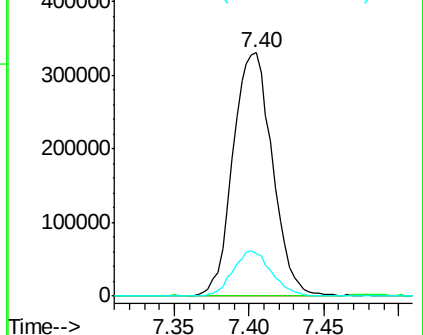
62 17.3 57.6 86.4#

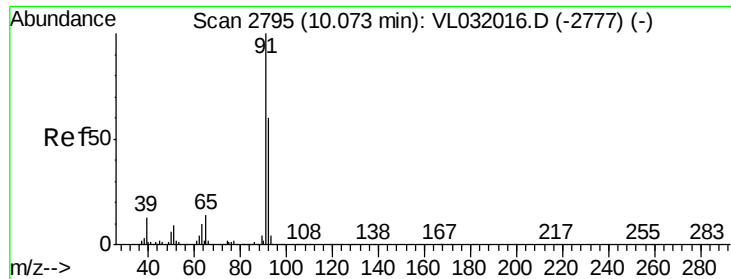


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.12 ppbv

RT: 10.07 min Scan# 2793

Delta R.T. -0.01 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

Instrument :

MSVOA_L

ClientSampleId :

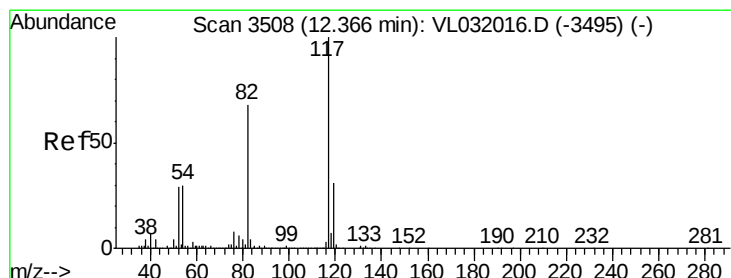
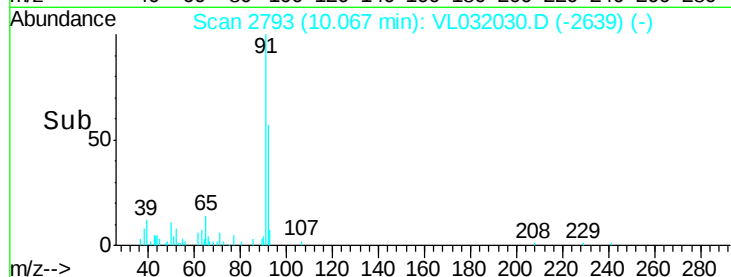
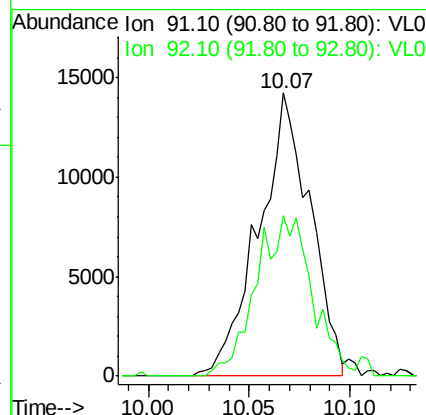
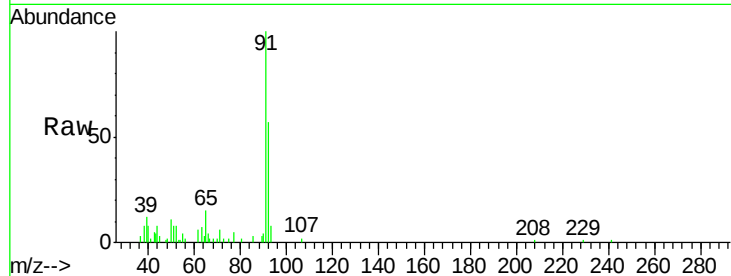
SS-1

Tgt Ion: 91 Resp: 25282

Ion Ratio Lower Upper

91 100

92 62.8 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.37 min Scan# 3508

Delta R.T. 0.00 min

Lab File: VL032030.D

Acq: 1 Jun 2018 20:55

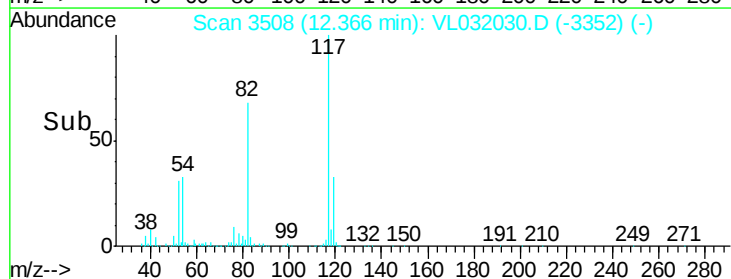
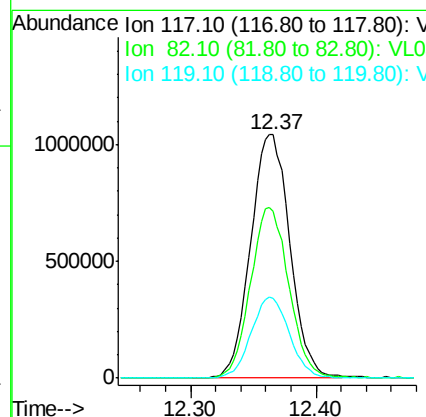
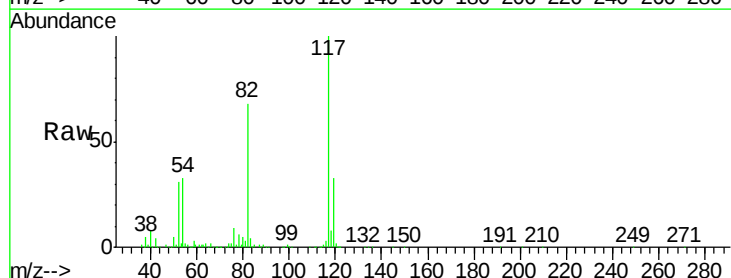
Tgt Ion: 117 Resp: 2266406

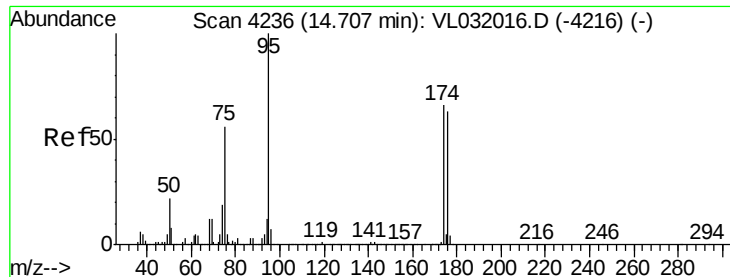
Ion Ratio Lower Upper

117 100

82 69.0 52.7 79.1

119 32.6 25.5 38.3

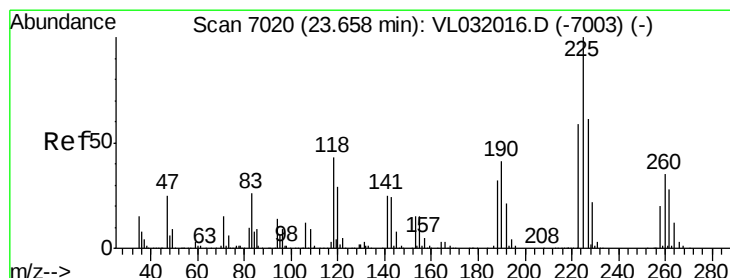
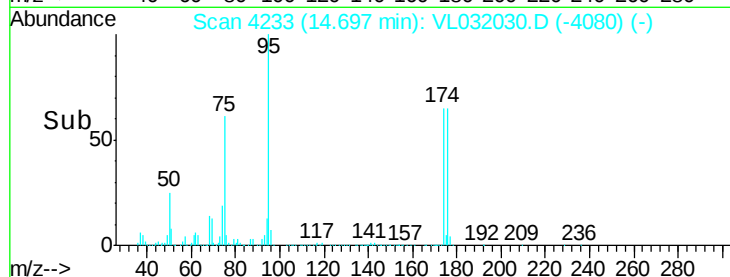
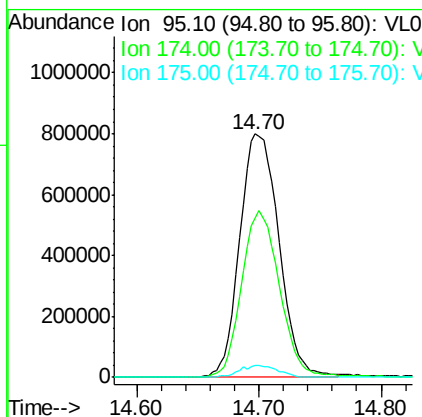
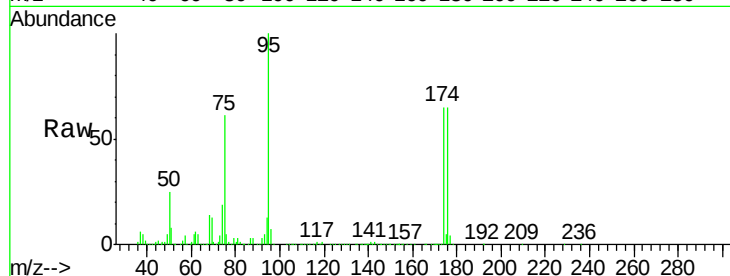




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.17 ppbv
 RT: 14.70 min Scan# 4233
 Delta R.T. -0.01 min
 Lab File: VL032030.D
 Acq: 1 Jun 2018 20:55

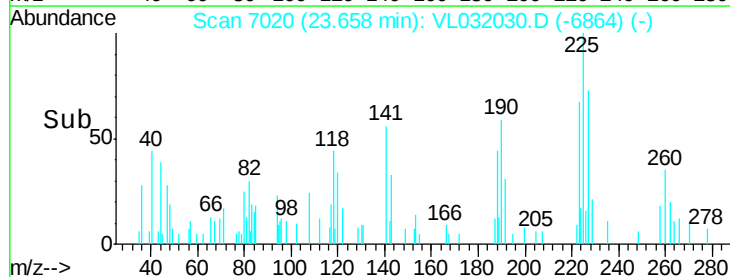
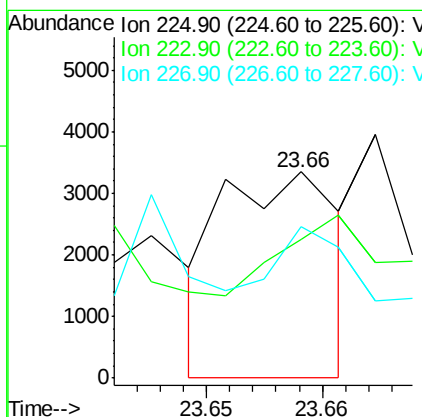
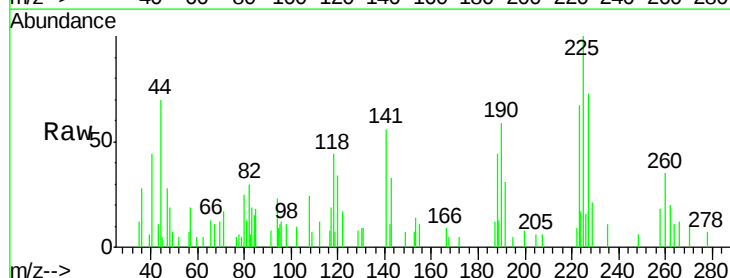
Instrument :
 MSVOA_L
 ClientSampled :
 SS-1

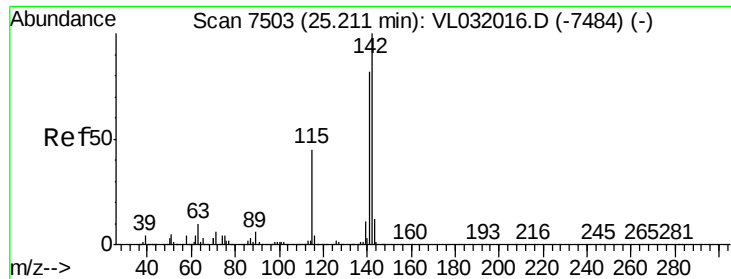
Tgt Ion: 95 Resp: 1780184
 Ion Ratio Lower Upper
 95 100
 174 66.8 53.2 79.8
 175 4.8 3.7 5.5



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.03 ppbv
 RT: 23.66 min Scan# 7020
 Delta R.T. 0.00 min
 Lab File: VL032030.D
 Acq: 1 Jun 2018 20:55

Tgt Ion: 225 Resp: 2324
 Ion Ratio Lower Upper
 225 100
 223 0.0 49.4 74.2#
 227 0.0 51.2 76.8#





#80
 Naphthalene, 2-methyl-
 Concen: 0.05 ppbv
 RT: 25.23 min Scan# 7509
 Delta R.T. 0.02 min
 Lab File: VL032030.D
 Acq: 1 Jun 2018 20:55

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1

Tgt Ion: 142 Resp: 1964
 Ion Ratio Lower Upper
 142 100
 141 12.1 67.4 101.2#
 115 21.4 35.3 52.9#

