

Data File : VL031218.D

Acq On : 14 Dec 2017 2:16

Operator : SY/AP

Sample : VSTDIC015

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Quant Time: Dec 14 03:45:02 2017

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL121317AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 03:40:57 2017

QLast Update : Thu Dec 14 03:40:57 2017

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1629220	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	4102323	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	5674897	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3244147	7.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	74.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.18	85	1366967	8.22	ppbv	99
3) Chlorodifluoromethane	3.12	51	2458949	11.03	ppbv	99
4) Chloromethane	3.28	50	1384685	16.55	ppbv	99
5) Vinyl Chloride	3.40	62	1387562	15.19	ppbv	100
6) Bromomethane	3.63	94	858063	15.51	ppbv	98
7) Chloroethane	3.72	64	545712	16.78	ppbv	99
8) Dichlorotetrafluoroethane	3.32	85	1936937	9.97	ppbv	98
9) Propene	3.14	41	1245504	13.48	ppbv	99
10) Heptane	8.41	43	3395990	12.35	ppbv	100
11) Trichlorofluoromethane	4.13	101	3002507	15.39	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.68	101	2036785	17.54	ppbv	99
13) Ethanol	3.77	45	306561	17.33	ppbv	99
14) Bromoethene	3.91	108	952810	15.95	ppbv	100
15) Acetone	4.02	43	2440629	14.92	ppbv	99
16) 1,3-Butadiene	3.47	39	1316005	17.07	ppbv	98
17) tert-Butyl alcohol	4.49	59	1620525	20.40	ppbv	99
18) 1,1-Dichloroethene	4.49	96	979983	17.35	ppbv	92
19) Isopropyl Alcohol	4.15	45	1822423	19.08	ppbv	98
20) Methylene Chloride	4.54	84	935656	16.45	ppbv	97
21) Allyl Chloride	4.61	41	1782681	21.86	ppbv	99
22) trans-1,2-Dichloroethene	5.10	96	1154311	16.32	ppbv	100
23) Vinyl Acetate	5.30	43	4084326	14.02	ppbv	98
24) 1,1-Dichloroethane	5.23	63	3117484	12.41	ppbv	100
25) Ethyl Acetate	5.92	43	5362812	13.19	ppbv	100
26) Hexane	5.93	57	2503797	12.66	ppbv	99
27) Carbon Disulfide	4.76	76	2837376	20.44	ppbv	99
28) Methyl tert-Butyl Ether	5.25	73	3387108	15.51	ppbv	100
29) Chloroform	6.00	83	3612293	12.75	ppbv	100
30) Cyclohexane	7.41	84	2113718	13.37	ppbv	99
31) cis-1,2-Dichloroethene	5.79	61	2423844	12.80	ppbv	99
32) 1,1,1-Trichloroethane	6.78	97	3523066	14.90	ppbv	99
34) 2-Butanone	5.47	43	3709781	11.02	ppbv	100
35) Carbon Tetrachloride	7.30	117	3568360	12.38	ppbv	98
36) Benzene	7.17	78	5138618	10.94	ppbv	98
37) 1,2-Dichloroethane	6.57	62	2867155	10.39	ppbv	100
38) Trichloroethene	8.13	130	1848277	10.34	ppbv	98
39) 1,2-Dichloropropane	7.90	63	1875965	10.44	ppbv	95
40) 1,4-Dioxane	8.12	88	731243	10.23	ppbv #	95
41) Tetrahydrofuran	6.30	42	2118237	12.02	ppbv	99
42) Bromodichloromethane	8.09	83	3648310	11.10	ppbv	100
43) Methyl Methacrylate	8.30	69	1893600	11.53	ppbv	100

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 03:40:57 2017

QLast Update : Thu Dec 14 03:40:57 2017

Response via : Initial Calibration

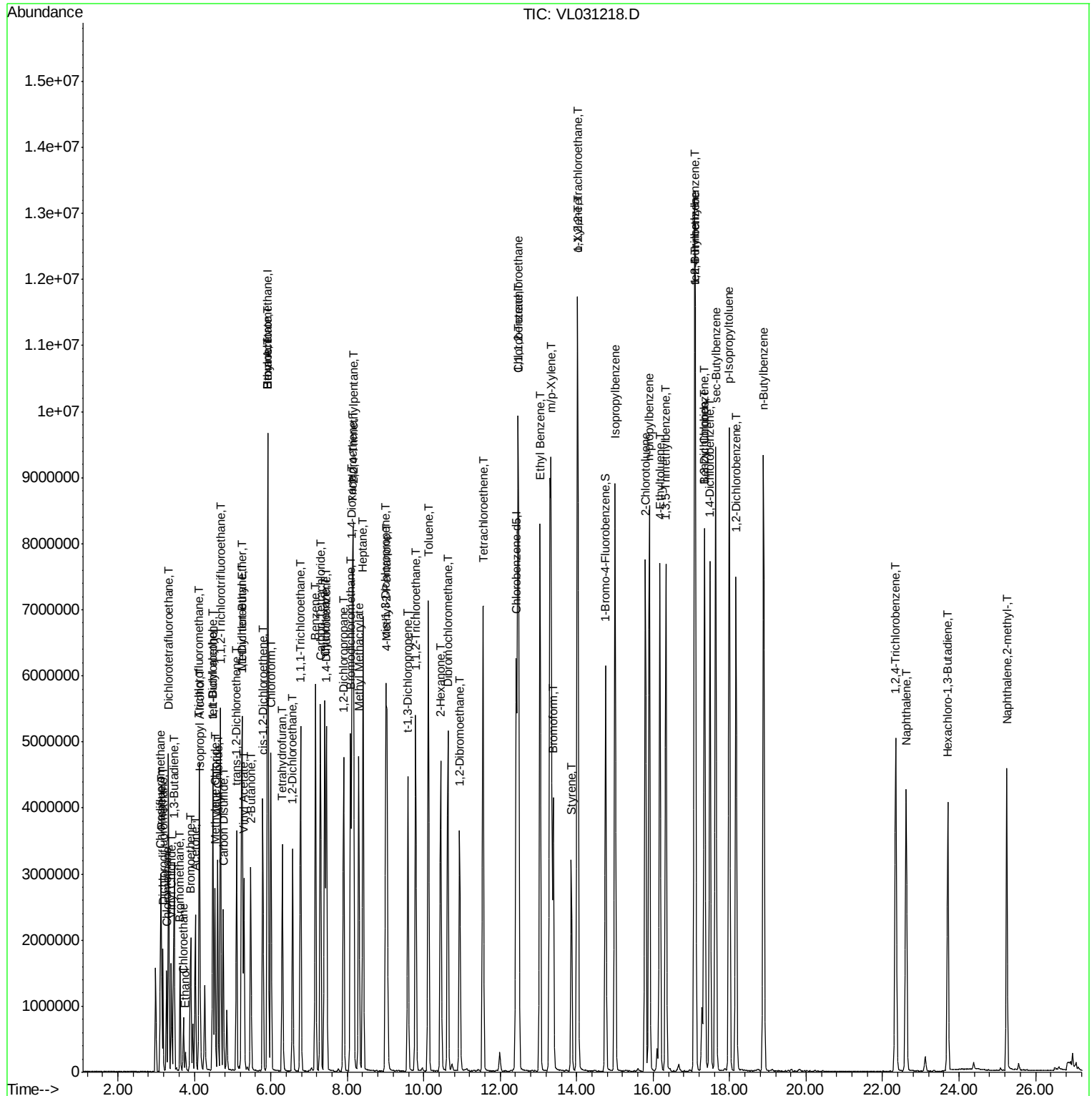
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.16	57	7779160	9.90	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	2858350	14.04	ppbv	99
46) cis-1,3-Dichloropropene	9.01	75	3375821	12.53	ppbv	99
47) 1,1,2-Trichloroethane	9.79	97	2123211	11.14	ppbv	98
48) Dibromochloromethane	10.63	129	3511319	13.70	ppbv	100
49) Bromoform	13.38	173	2625441	13.56	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	4586226	10.77	ppbv	100
51) 2-Hexanone	10.44	43	4719203	11.71	ppbv #	99
52) Tetrachloroethene	11.55	164	1929437	11.58	ppbv	98
53) Toluene	10.12	91	6158799	11.59	ppbv	100
54) 1,2-Dibromoethane	10.94	107	3310397	12.21	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.46	131	2294516	9.86	ppbv #	62
57) Chlorobenzene	12.48	112	4618640	8.33	ppbv	98
58) Ethyl Benzene	13.04	91	8291096	8.53	ppbv	96
59) m/p-Xylene	13.33	91	6280276	7.66	ppbv #	23
60) o-Xylene	14.03	91	6397358	7.84	ppbv	99
61) Styrene	13.86	104	2083089	10.16	ppbv	99
62) Isopropylbenzene	15.00	105	8603400	8.81	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	4141100	6.51	ppbv	99
64) n-propylbenzene	15.90	120	2368632	8.87	ppbv	95
65) tert-Butylbenzene	17.08	119	7173023	8.37	ppbv	100
66) Benzyl Chloride	17.33	91	968583	13.21	ppbv	100
67) sec-Butylbenzene	17.63	105	10205699	7.87	ppbv	100
69) p-Isopropyltoluene	17.99	119	8500591	8.50	ppbv	99
70) n-Butylbenzene	18.89	91	8423820	7.64	ppbv	99
71) 2-Chlorotoluene	15.80	91	6571181	8.35	ppbv	99
72) 4-Ethyltoluene	16.18	105	7345225	8.91	ppbv	100
73) 1,3,5-Trimethylbenzene	16.33	105	6447247	8.46	ppbv	98
74) 1,2,4-Trimethylbenzene	17.11	105	6390583	7.62	ppbv	99
75) 1,3-Dichlorobenzene	17.34	146	4296225	8.10	ppbv	100
76) 1,4-Dichlorobenzene	17.49	146	4386532	8.23	ppbv	99
77) 1,2-Dichlorobenzene	18.17	146	4245108	8.11	ppbv	99
78) Hexachloro-1,3-Butadiene	23.71	225	994051	9.94	ppbv	100
79) Naphthalene	22.62	128	5752503	10.12	ppbv	98
80) Naphthalene,2-methyl-	25.25	142	2701042	16.15	ppbv	100
81) 1,2,4-Trichlorobenzene	22.35	180	2632786	9.29	ppbv	100

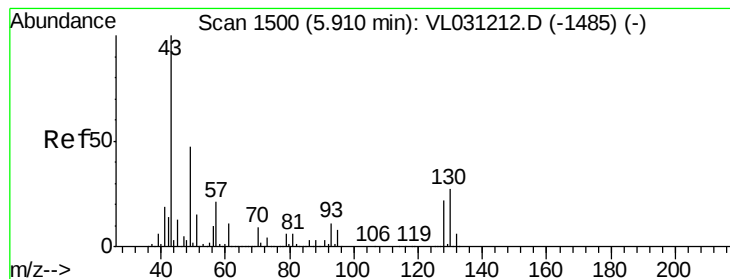
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC015

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VL031218.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

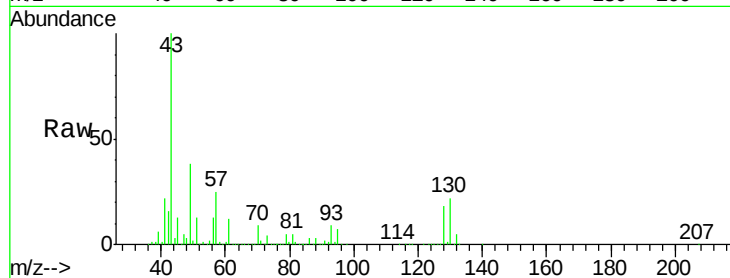
Tgt Ion: 49 Resp: 1629220

Ion Ratio Lower Upper

49 100

128 47.0 23.2 69.5

130 59.7 29.6 88.8

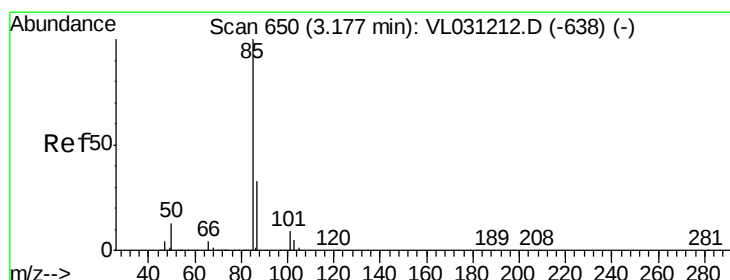
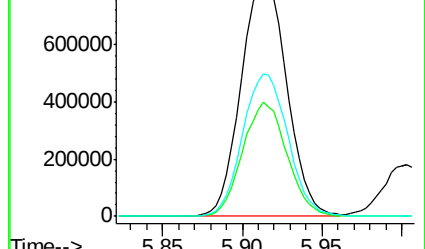
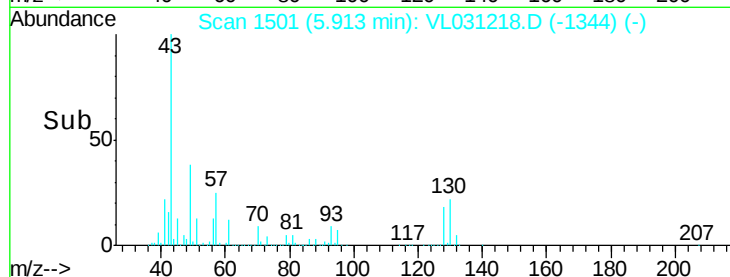


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



#2

Dichlorodifluoromethane

Concen: 8.22 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031218.D

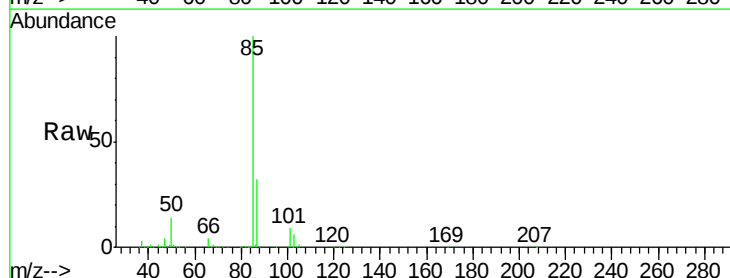
Acq: 14 Dec 2017 2:16

Tgt Ion: 85 Resp: 1366967

Ion Ratio Lower Upper

85 100

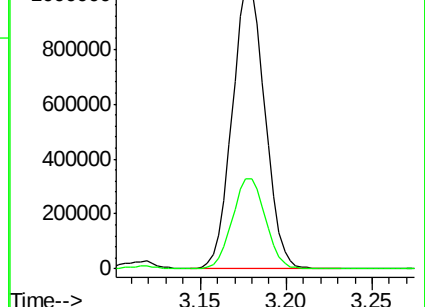
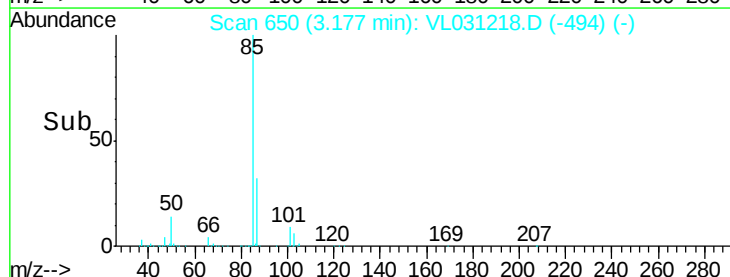
87 32.0 26.2 39.2

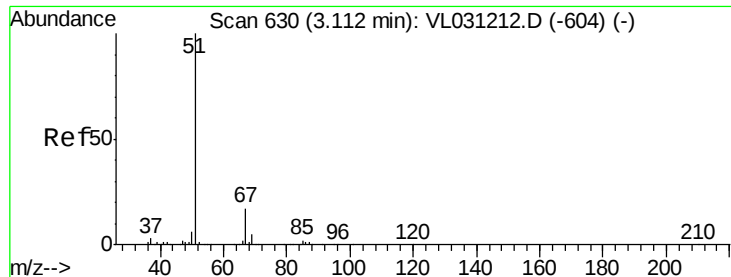


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->





#3

Chlorodifluoromethane

Concen: 11.03 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

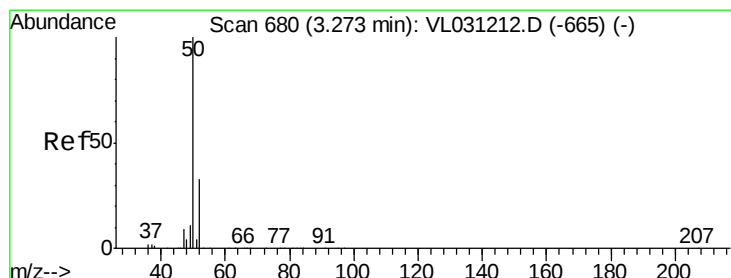
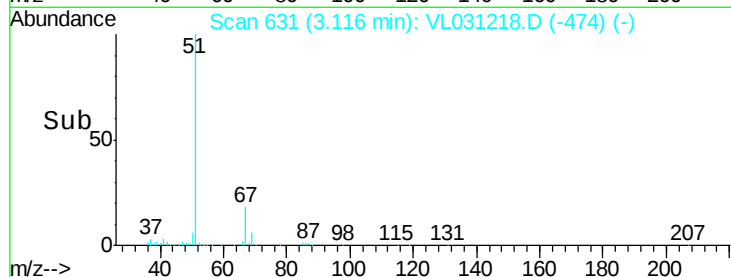
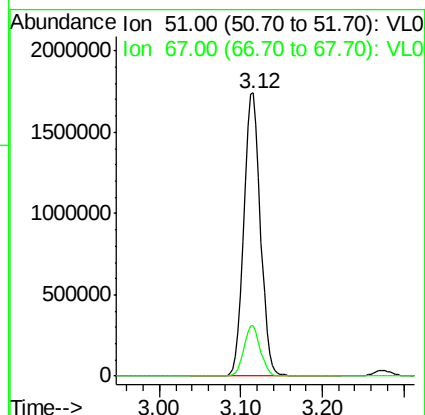
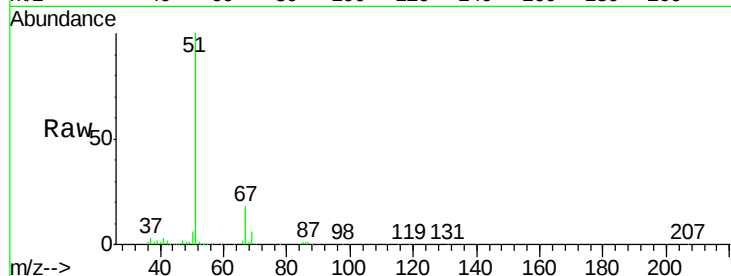
VSTDIC015

Tgt Ion: 51 Resp: 2458949

Ion Ratio Lower Upper

51 100

67 17.5 13.8 20.6



#4

Chloromethane

Concen: 16.55 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031218.D

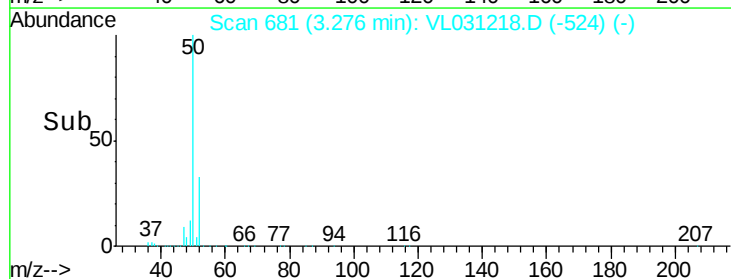
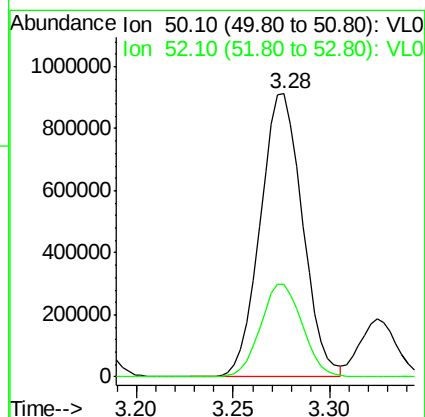
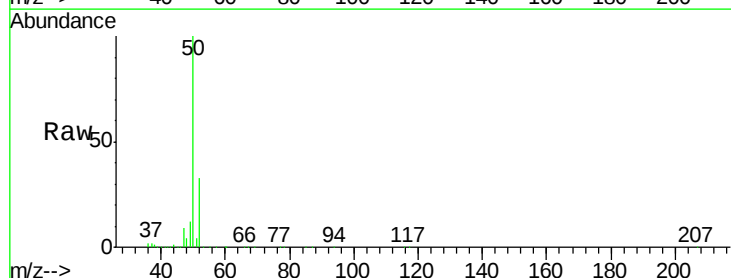
Acq: 14 Dec 2017 2:16

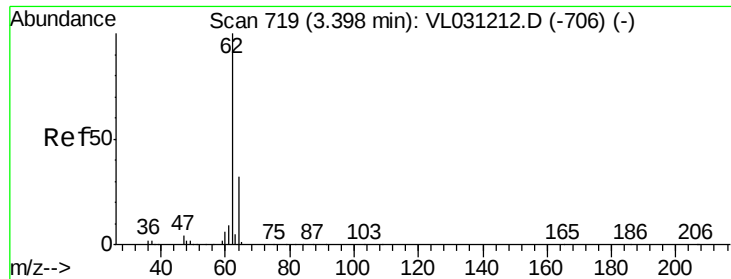
Tgt Ion: 50 Resp: 1384685

Ion Ratio Lower Upper

50 100

52 32.6 26.5 39.7





#5

Vinyl Chloride

Concen: 15.19 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

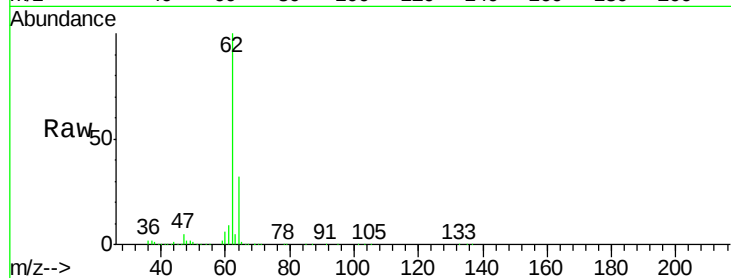
VSTDIC015

Tgt Ion: 62 Resp: 1387562

Ion Ratio Lower Upper

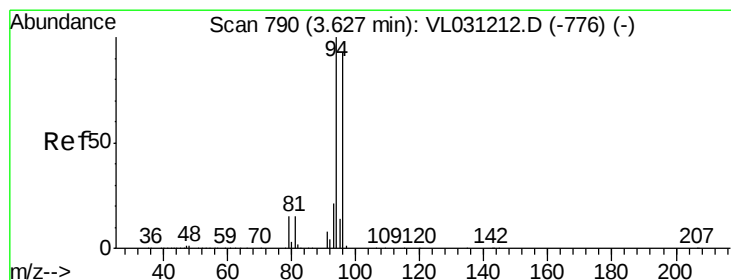
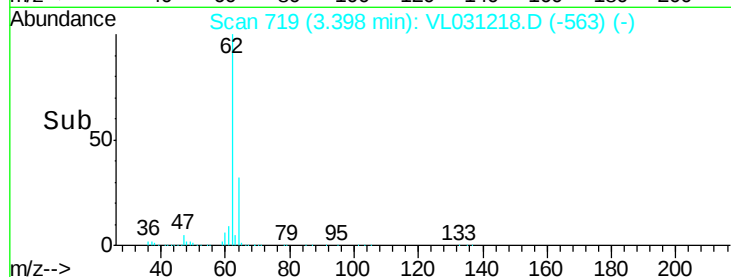
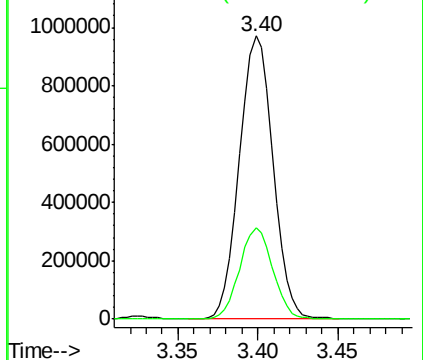
62 100

64 32.3 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 15.51 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031218.D

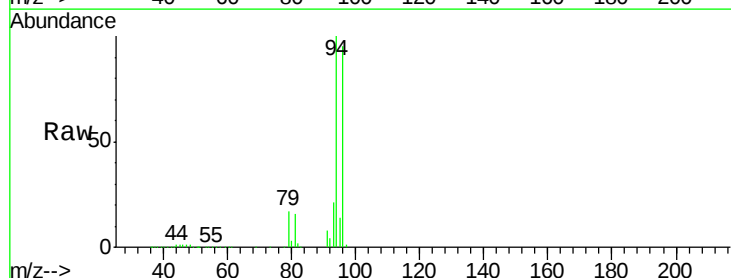
Acq: 14 Dec 2017 2:16

Tgt Ion: 94 Resp: 858063

Ion Ratio Lower Upper

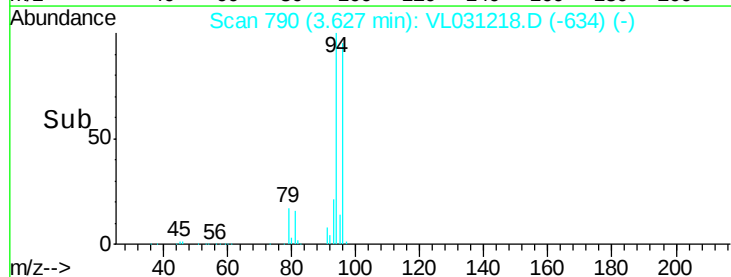
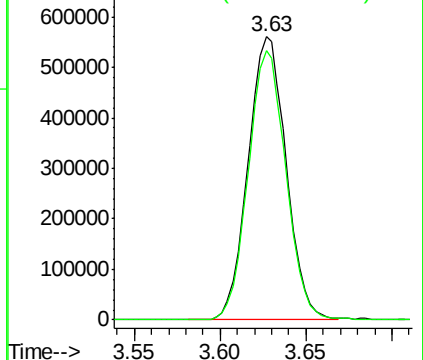
94 100

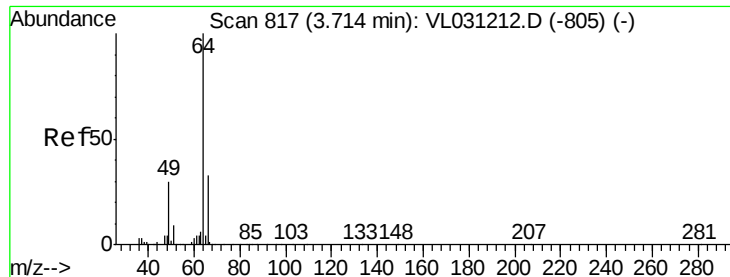
96 95.3 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 16.78 ppbv

RT: 3.72 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

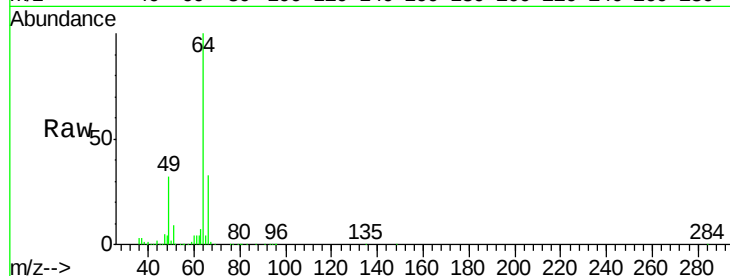
VSTDIC015

Tgt Ion: 64 Resp: 545712

Ion Ratio Lower Upper

64 100

66 33.4 26.2 39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.72

400000

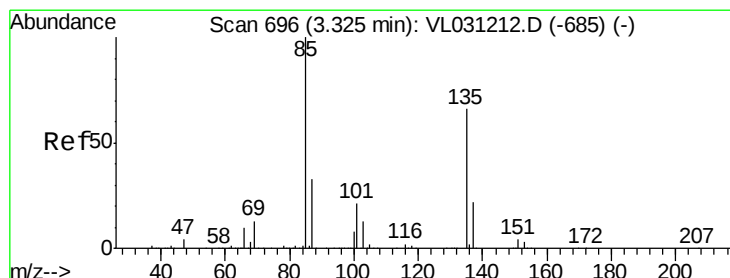
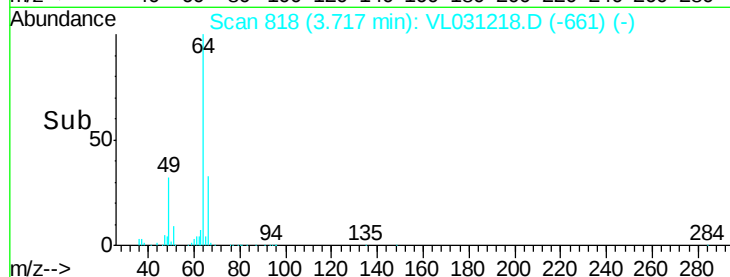
300000

200000

100000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.97 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031218.D

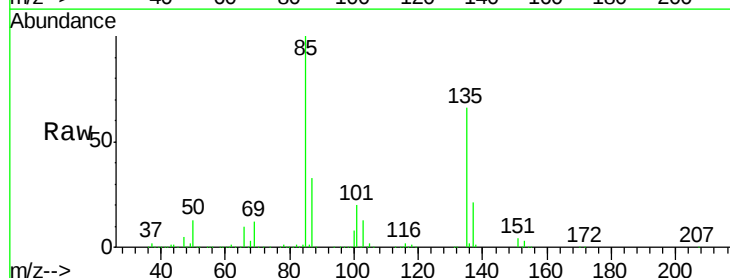
Acq: 14 Dec 2017 2:16

Tgt Ion: 85 Resp: 1936937

Ion Ratio Lower Upper

85 100

135 68.7 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.32

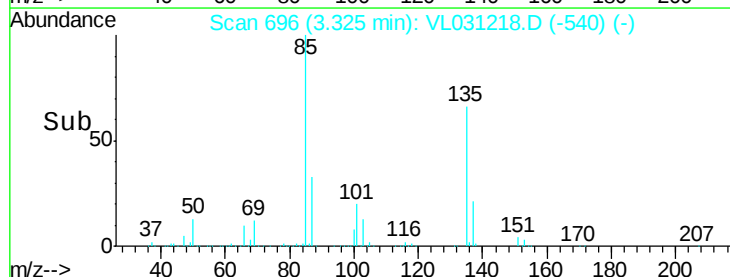
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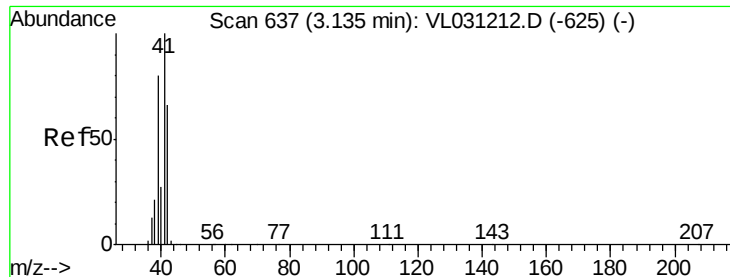
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500000

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Time-->





#9

Propene

Concen: 13.48 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

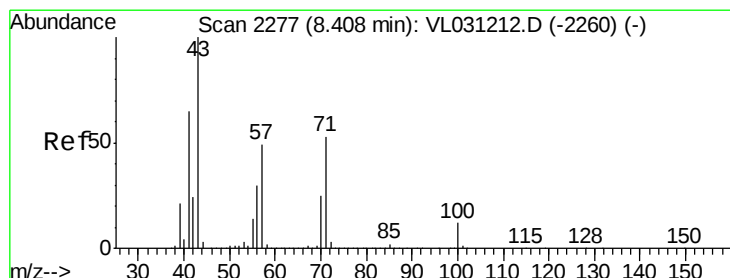
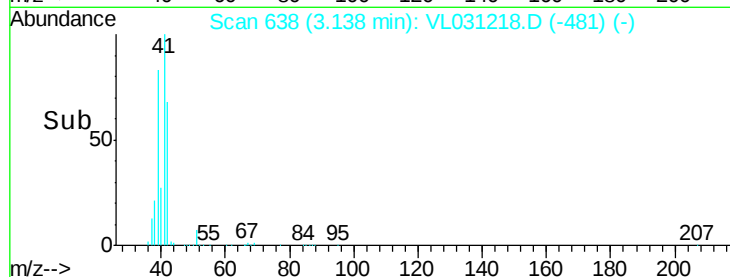
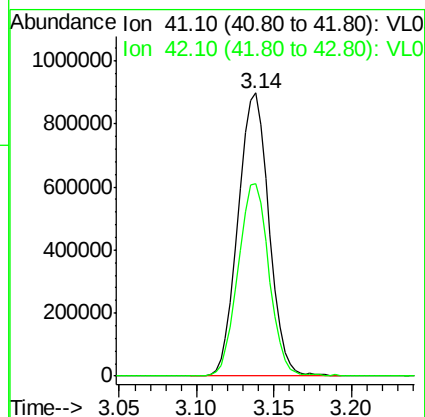
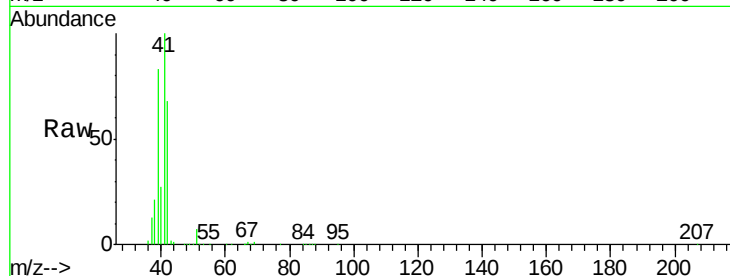
VSTDIC015

Tgt Ion: 41 Resp: 1245504

Ion Ratio Lower Upper

41 100

42 68.4 54.3 81.5



#10

Heptane

Concen: 12.35 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031218.D

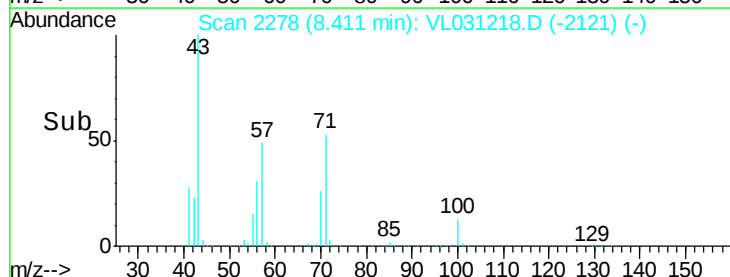
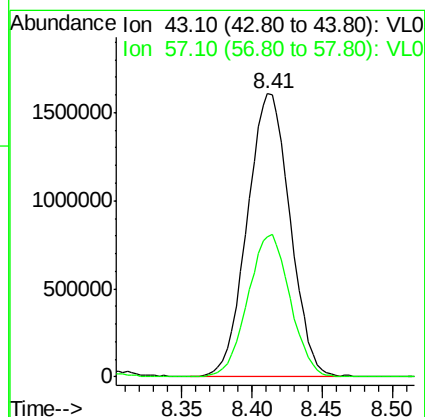
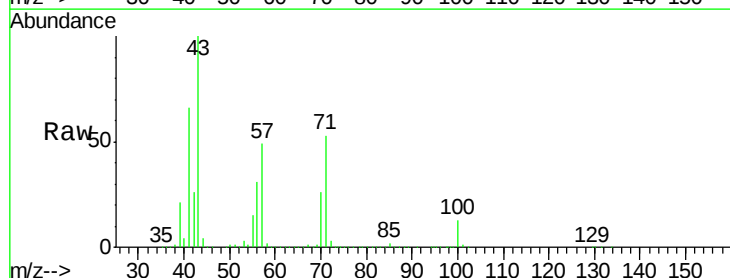
Acq: 14 Dec 2017 2:16

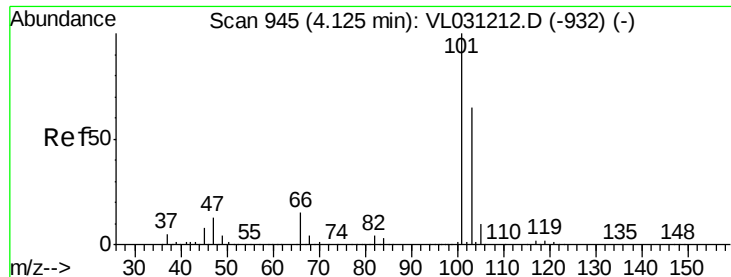
Tgt Ion: 43 Resp: 3395990

Ion Ratio Lower Upper

43 100

57 49.7 39.8 59.8

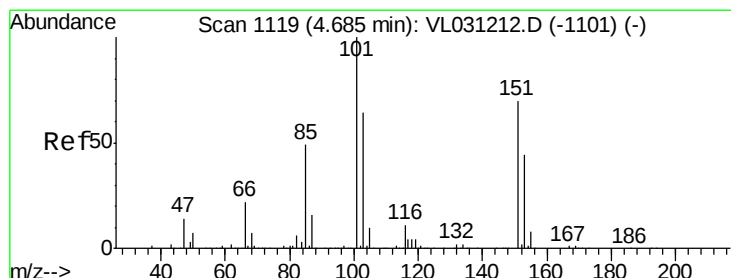
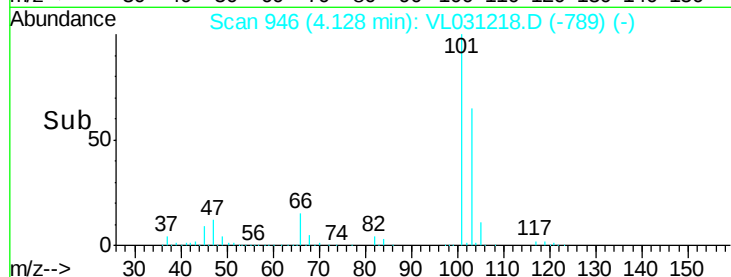
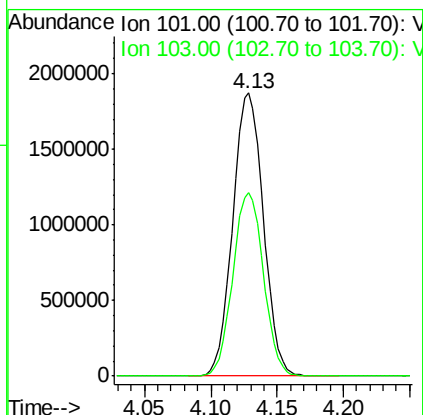
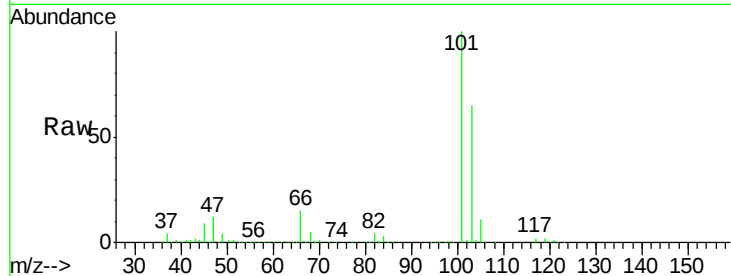




#11
 Trichlorofluoromethane
 Concen: 15.39 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

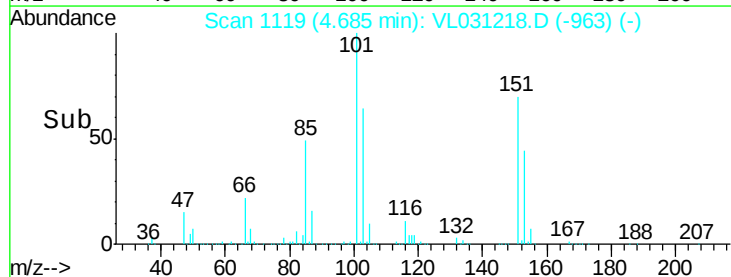
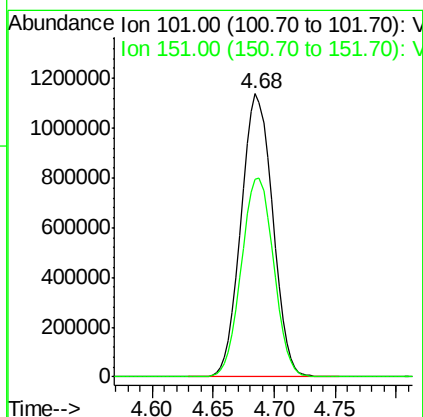
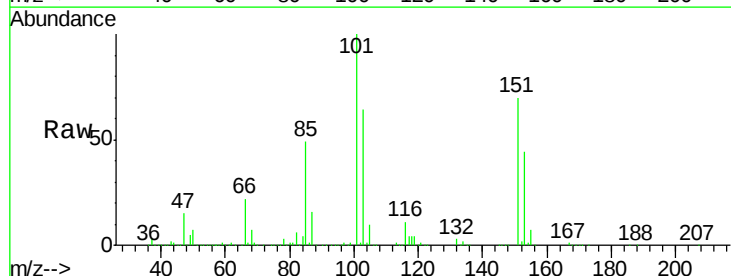
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

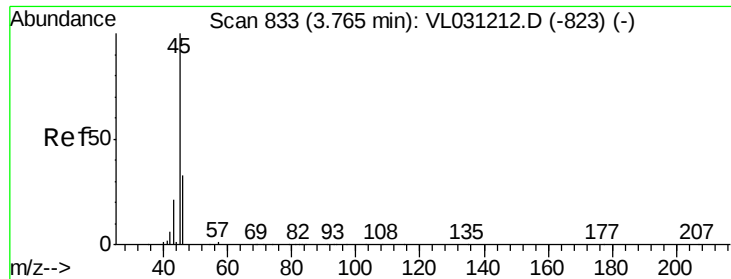
Tgt Ion:101 Resp: 3002507
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 17.54 ppbv
 RT: 4.68 min Scan# 1119
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Tgt Ion:101 Resp: 2036785
 Ion Ratio Lower Upper
 101 100
 151 71.7 56.5 84.7





#13

Ethanol

Concen: 17.33 ppbv

RT: 3.77 min Scan# 833

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

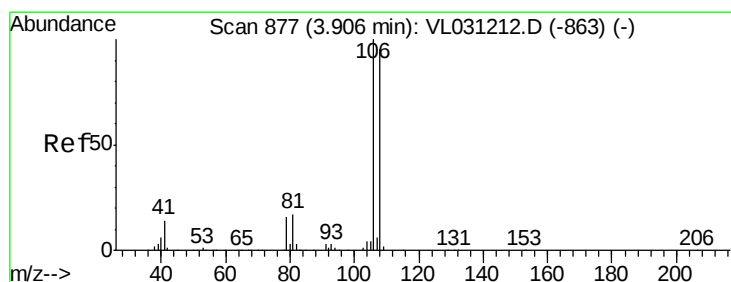
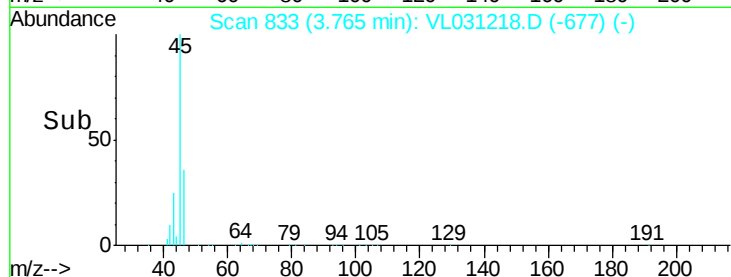
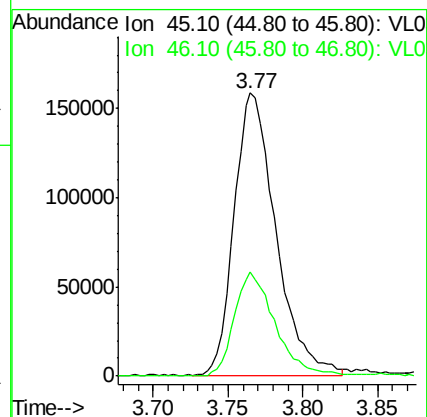
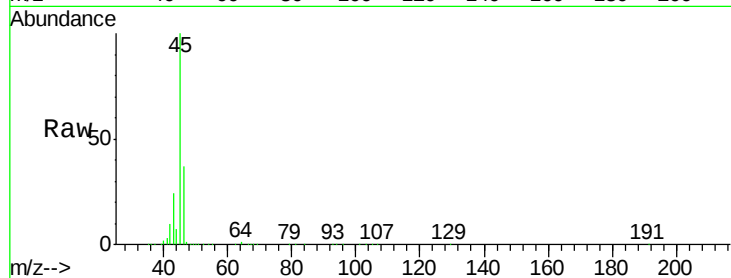
VSTDIC015

Tgt Ion: 45 Resp: 306561

Ion Ratio Lower Upper

45 100

46 37.4 14.6 58.4



#14

Bromoethene

Concen: 15.95 ppbv

RT: 3.91 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

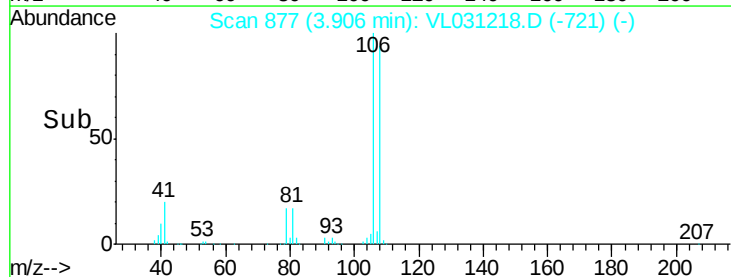
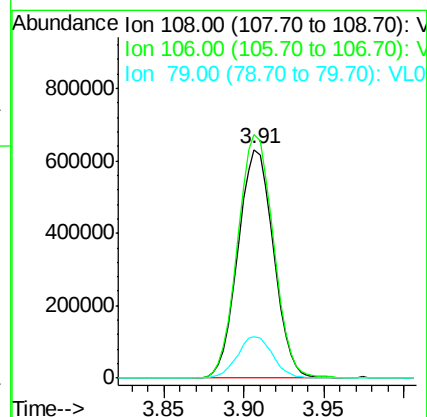
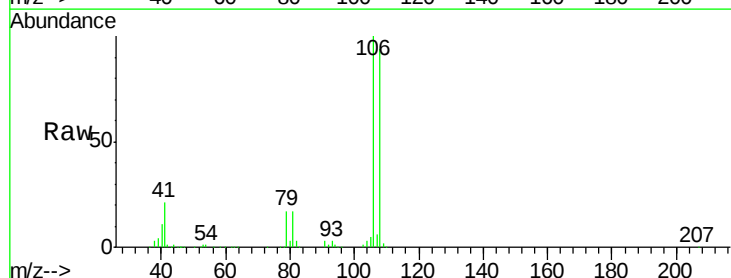
Tgt Ion: 108 Resp: 952810

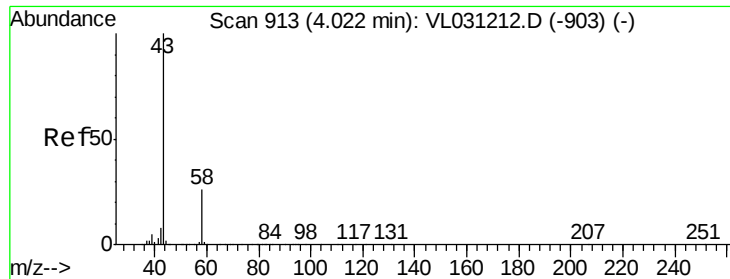
Ion Ratio Lower Upper

108 100

106 107.8 86.5 129.7

79 18.2 14.2 21.4





#15

Acetone

Concen: 14.92 ppbv

RT: 4.02 min Scan# 913

Delta R.T. -0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

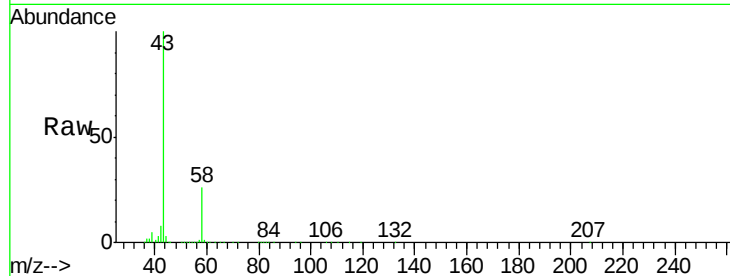
VSTDIC015

Tgt Ion: 43 Resp: 2440629

Ion Ratio Lower Upper

43 100

58 26.0 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

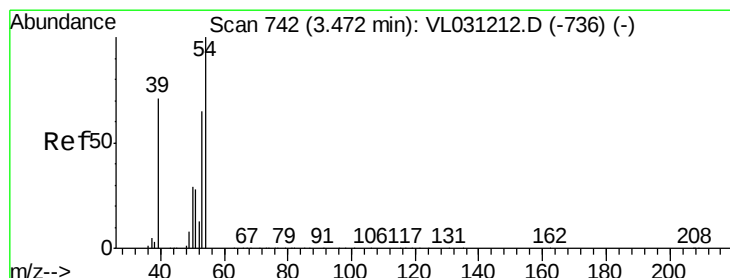
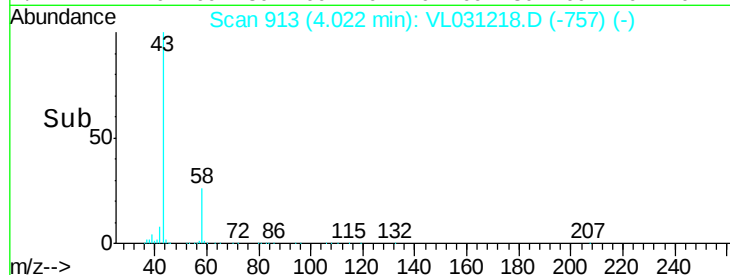
1500000

1000000

500000

0

Time--> 3.95 4.00 4.05 4.10



#16

1,3-Butadiene

Concen: 17.07 ppbv

RT: 3.47 min Scan# 742

Delta R.T. -0.00 min

Lab File: VL031218.D

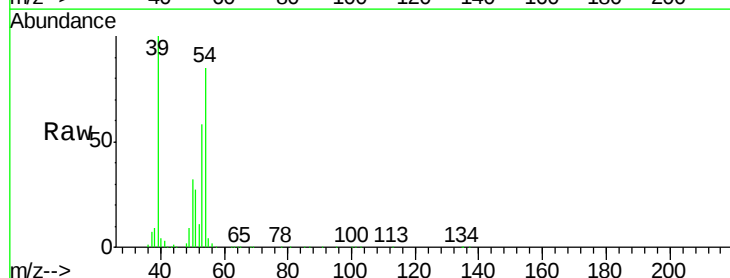
Acq: 14 Dec 2017 2:16

Tgt Ion: 39 Resp: 1316005

Ion Ratio Lower Upper

39 100

54 81.6 66.4 99.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.47

1000000

800000

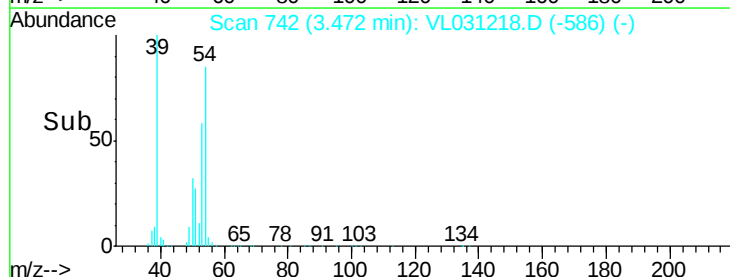
600000

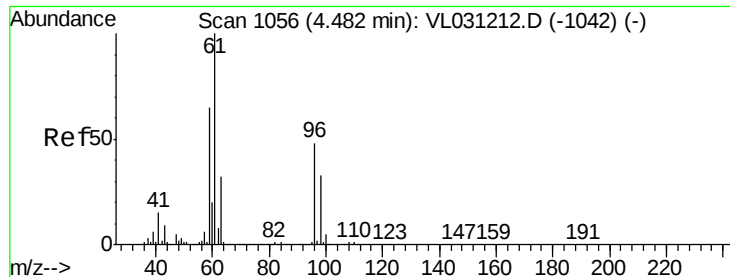
400000

200000

0

Time--> 3.45 3.50





#17

tert-Butyl alcohol

Concen: 20.40 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

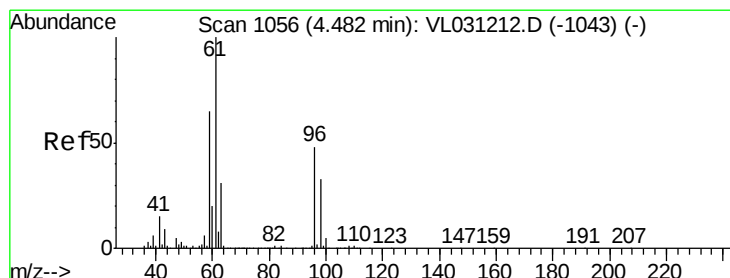
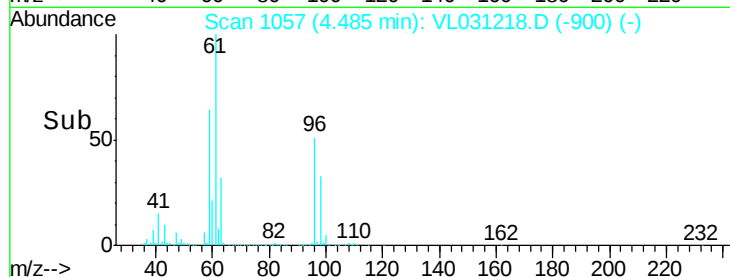
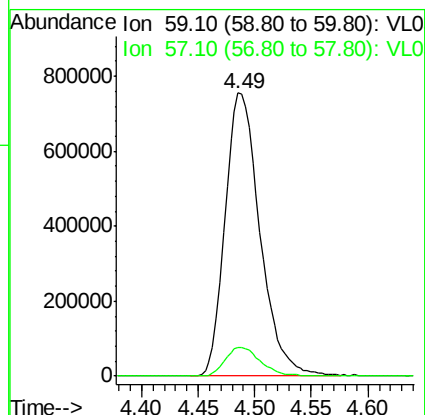
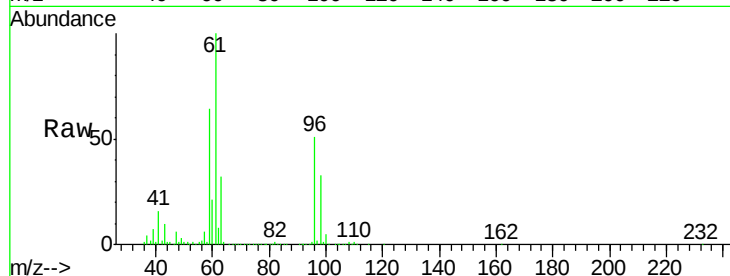
VSTDIC015

Tgt Ion: 59 Resp: 1620525

Ion Ratio Lower Upper

59 100

57 10.4 8.2 12.2



#18

1,1-Dichloroethene

Concen: 17.35 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

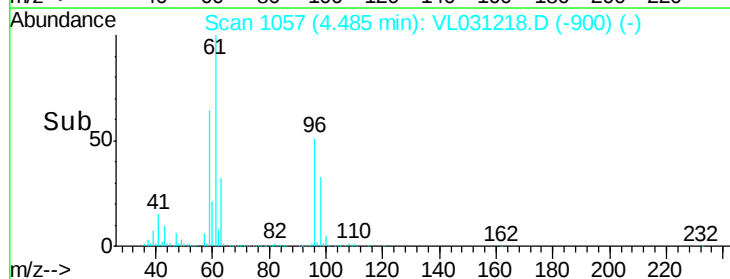
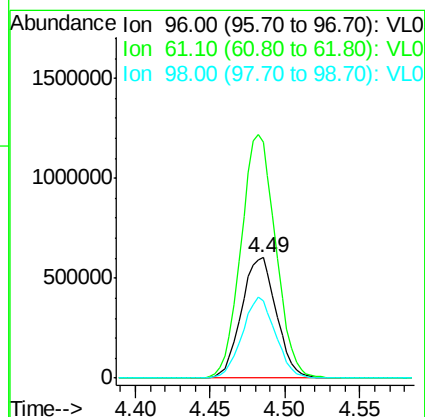
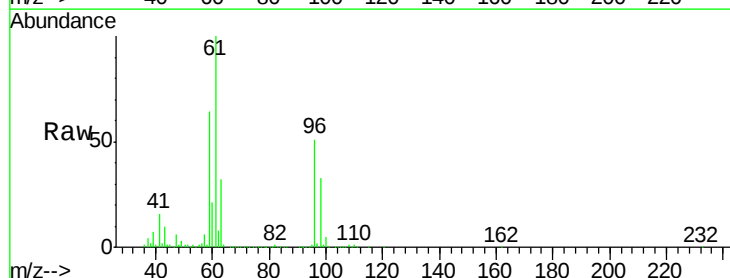
Tgt Ion: 96 Resp: 979983

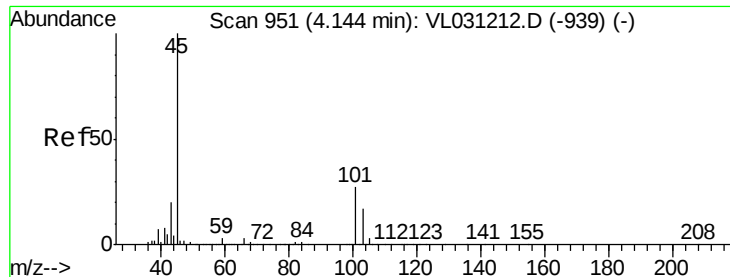
Ion Ratio Lower Upper

96 100

61 195.9 166.8 250.2

98 63.9 55.0 82.6





#19

Isopropyl Alcohol

Concen: 19.08 ppbv

RT: 4.15 min Scan# 952

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

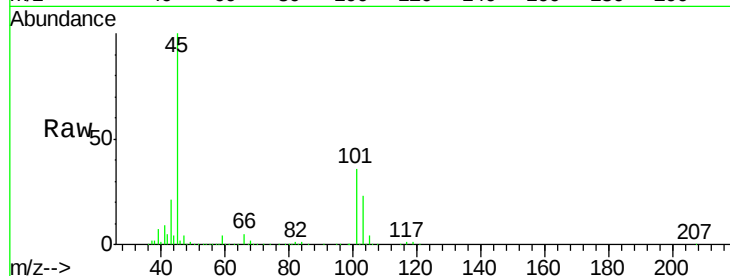
VSTDIC015

Tgt Ion: 45 Resp: 1822423

Ion Ratio Lower Upper

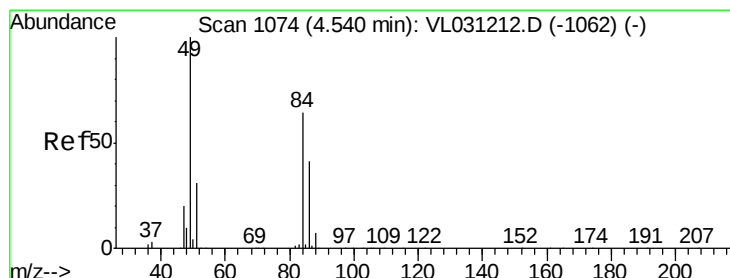
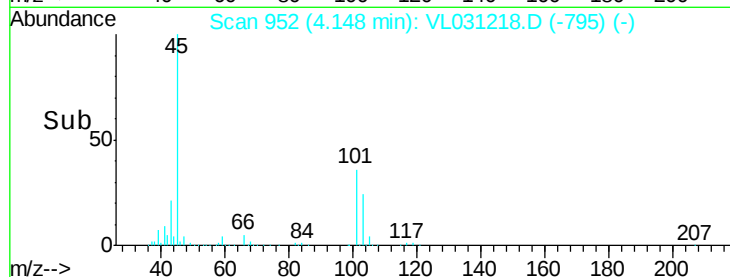
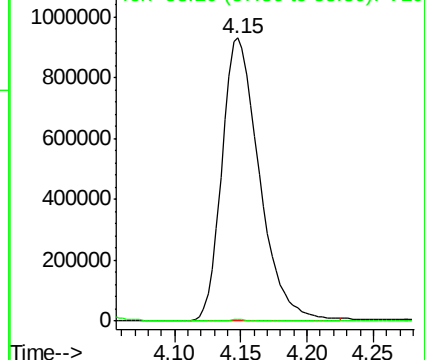
45 100

58 35.0 27.2 40.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 16.45 ppbv

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Tgt Ion: 84 Resp: 935656

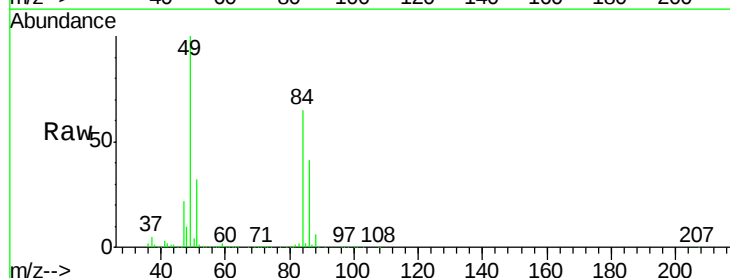
Ion Ratio Lower Upper

84 100

49 152.4 125.8 188.6

51 47.6 39.3 58.9

86 63.5 51.1 76.7

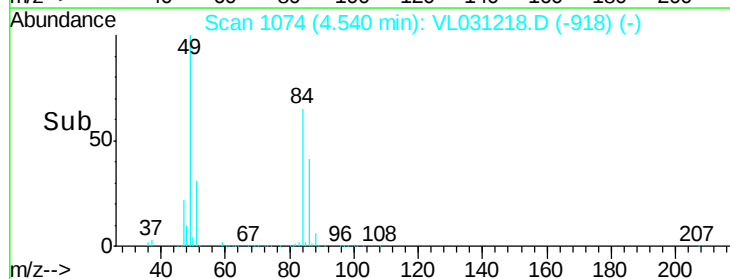
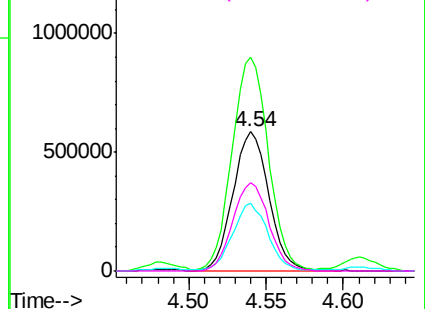


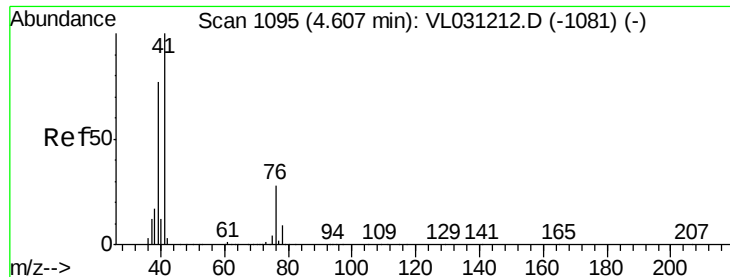
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

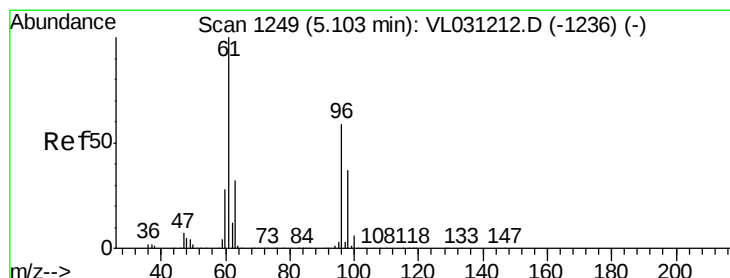
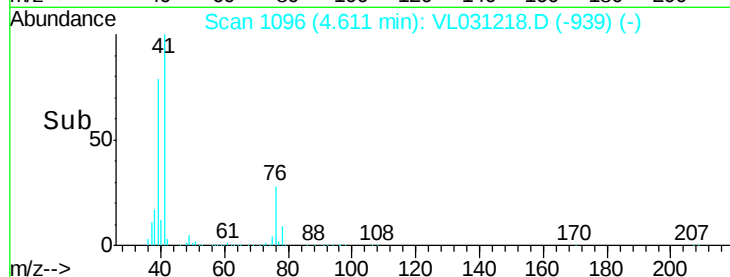
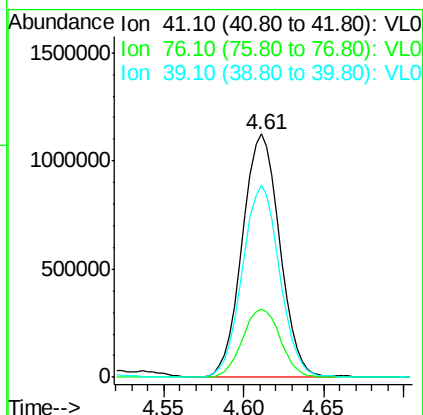
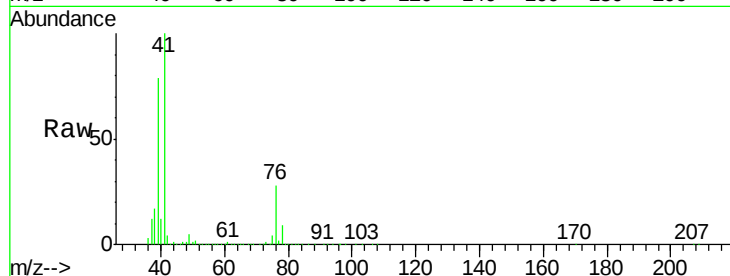




#21
 Allyl Chloride
 Concen: 21.86 ppbv
 RT: 4.61 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

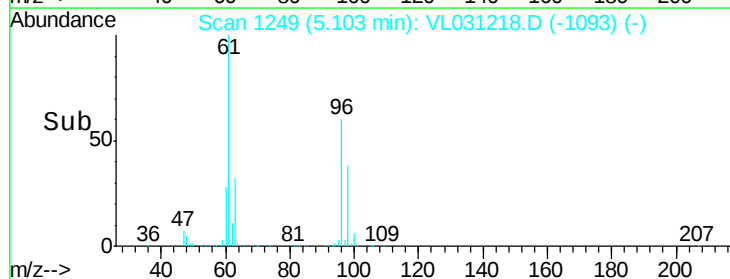
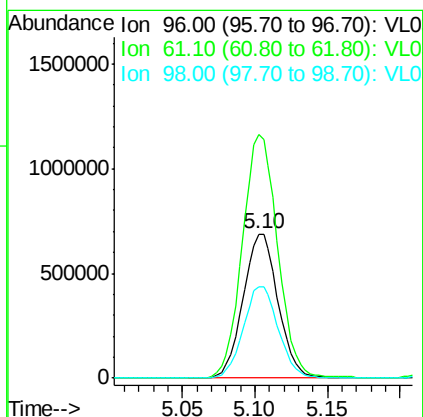
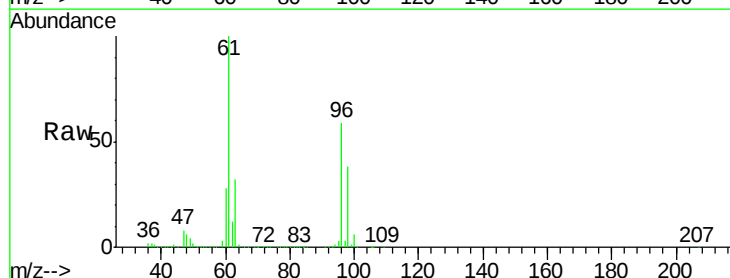
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

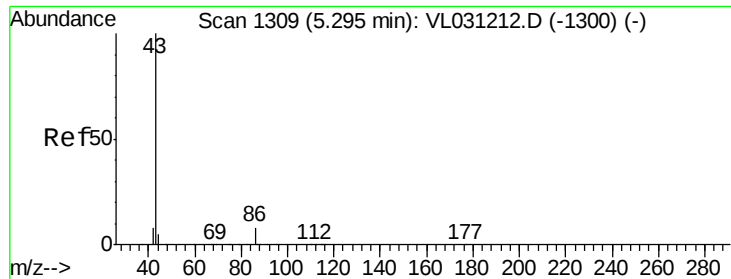
Tgt Ion: 41 Resp: 1782681
 Ion Ratio Lower Upper
 41 100
 76 28.7 22.9 34.3
 39 78.8 62.6 93.8



#22
 trans-1,2-Dichloroethene
 Concen: 16.32 ppbv
 RT: 5.10 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Tgt Ion: 96 Resp: 1154311
 Ion Ratio Lower Upper
 96 100
 61 168.7 135.0 202.4
 98 63.7 50.5 75.7





#23

Vinyl Acetate

Concen: 14.02 ppbv

RT: 5.30 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 4084326

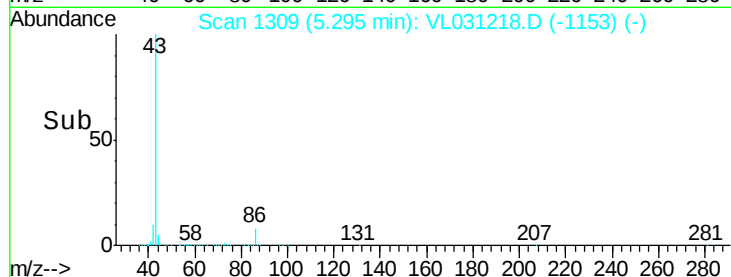
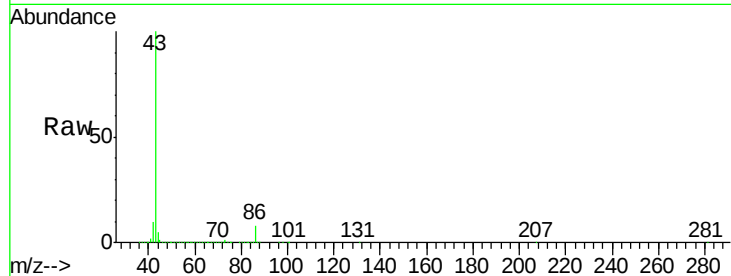
Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.9	8.9
42	10.0	7.3	10.9
44	5.0	3.7	5.5

43 100

86 8.0 5.9 8.9

42 10.0 7.3 10.9

44 5.0 3.7 5.5

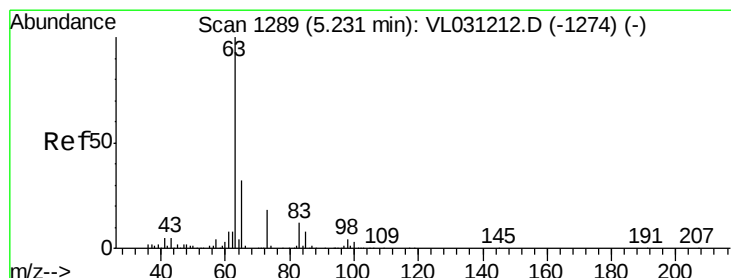
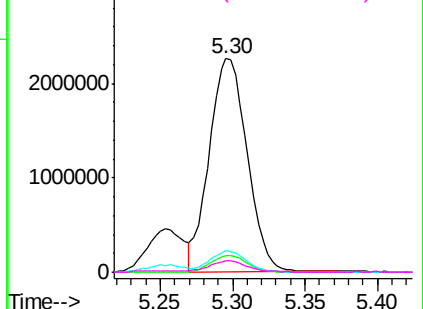


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.41 ppbv

RT: 5.23 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

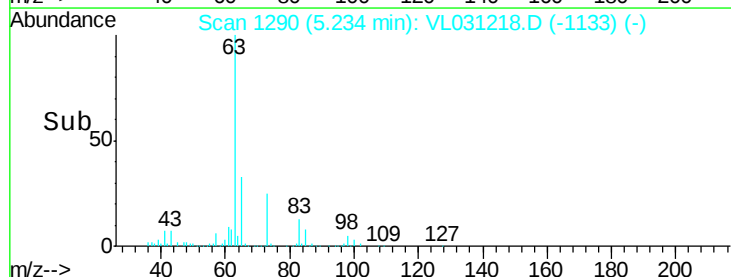
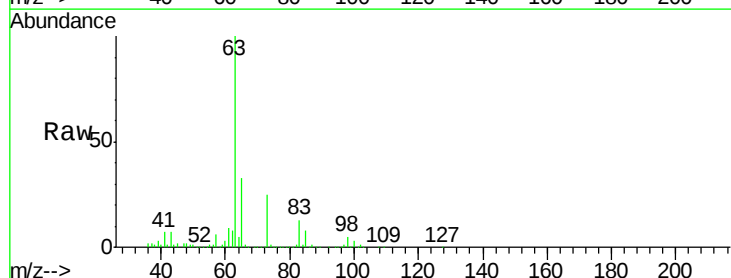
Tgt Ion: 63 Resp: 3117484

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	2.9	1.4	4.2

63 100

98 4.6 2.3 6.8

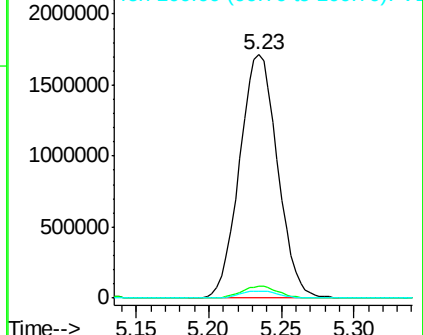
100 2.9 1.4 4.2

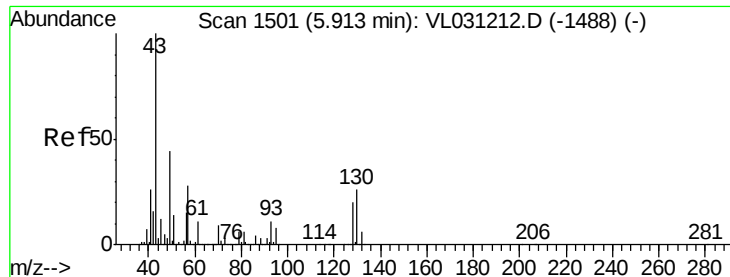


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



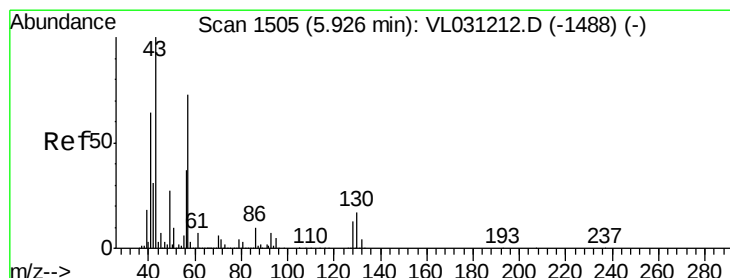
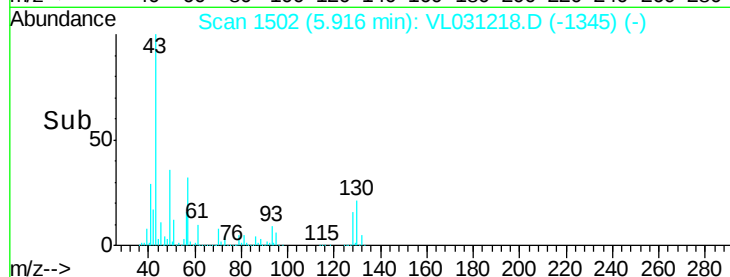
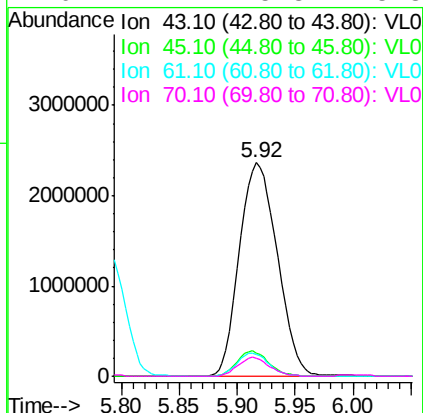
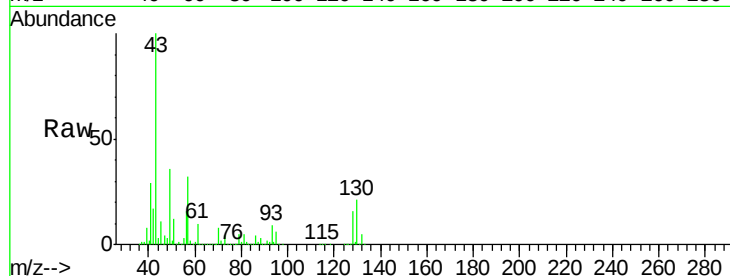


#25
Ethyl Acetate
Concen: 13.19 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. 0.00 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 5362812

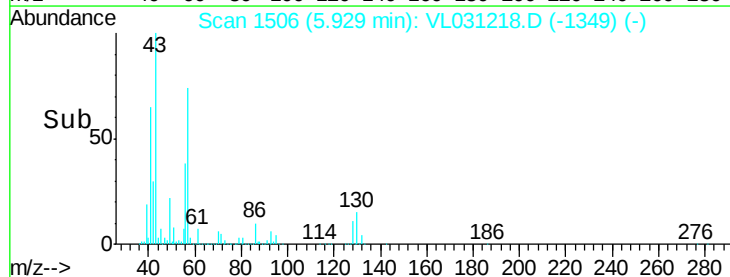
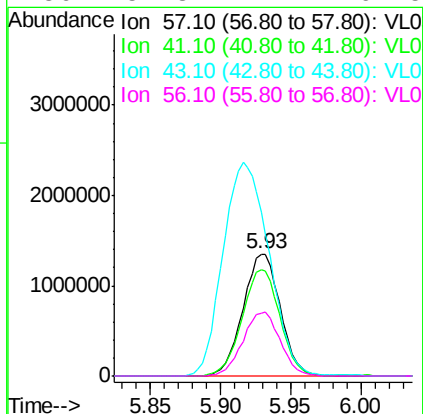
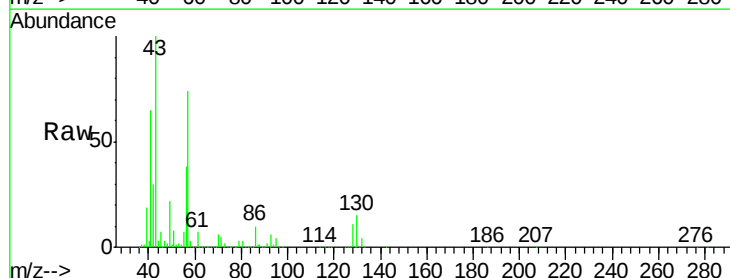
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.2	7.4	11.0
70	7.4	5.8	8.8

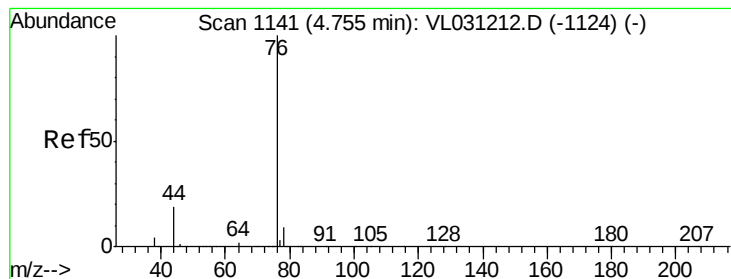


#26
Hexane
Concen: 12.66 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

Tgt Ion: 57 Resp: 2503797

Ion	Ratio	Lower	Upper
57	100		
41	88.0	70.3	105.5
43	214.9	173.8	260.8
56	52.3	41.7	62.5





#27

Carbon Disulfide

Concen: 20.44 ppbv

RT: 4.76 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

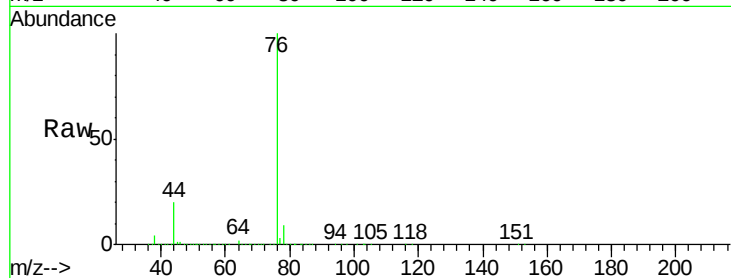
Tgt Ion: 76 Resp: 2837376

Ion Ratio Lower Upper

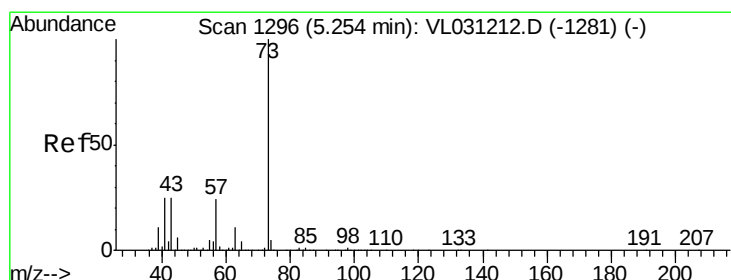
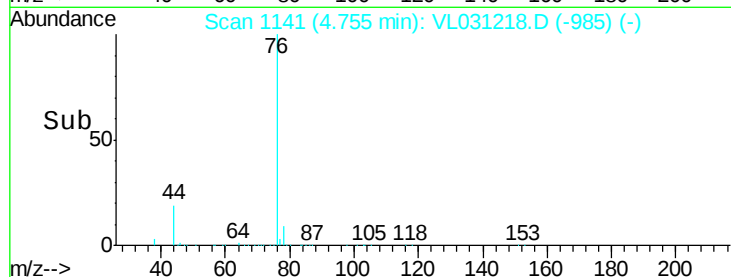
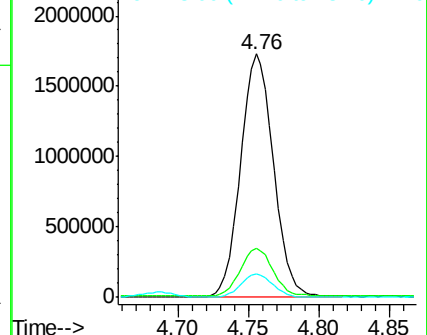
76 100

44 19.7 16.0 24.0

78 9.3 7.5 11.3



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: 15.51 ppbv

RT: 5.25 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VL031218.D

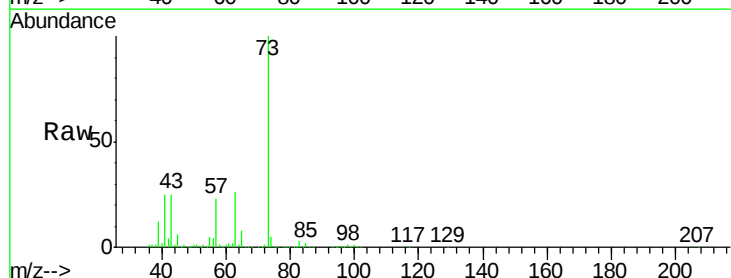
Acq: 14 Dec 2017 2:16

Tgt Ion: 73 Resp: 3387108

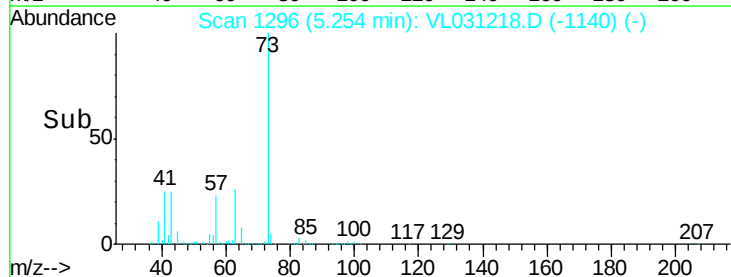
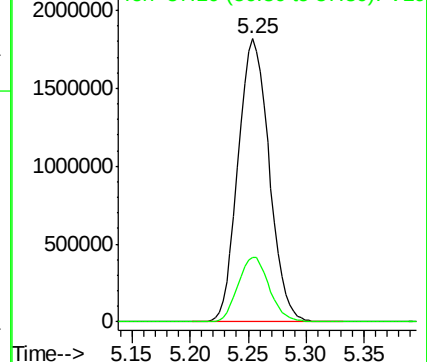
Ion Ratio Lower Upper

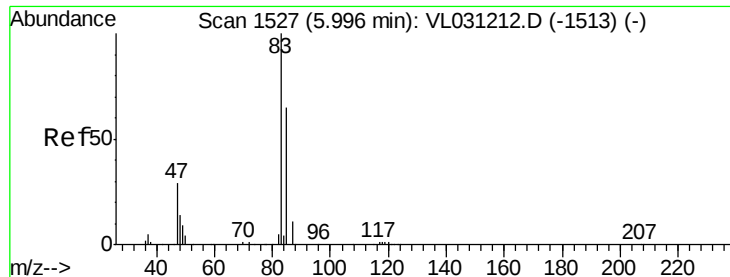
73 100

57 23.1 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

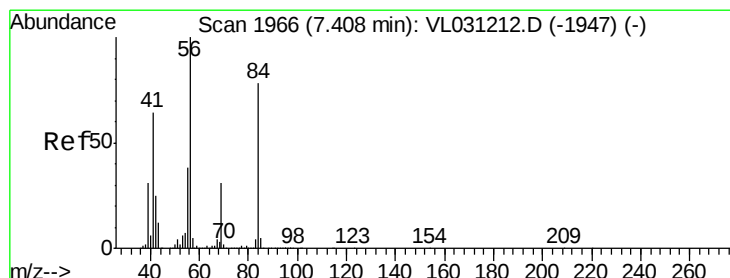
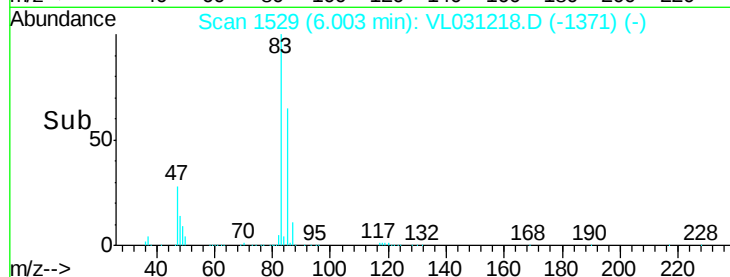
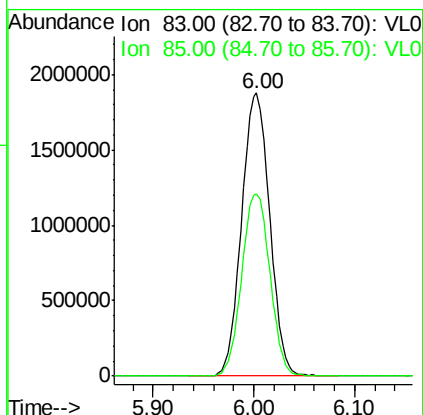
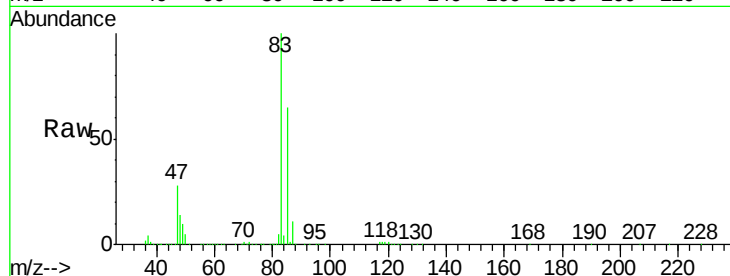




#29
Chloroform
Concen: 12.75 ppbv
RT: 6.00 min Scan# 1529
Delta R.T. 0.01 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

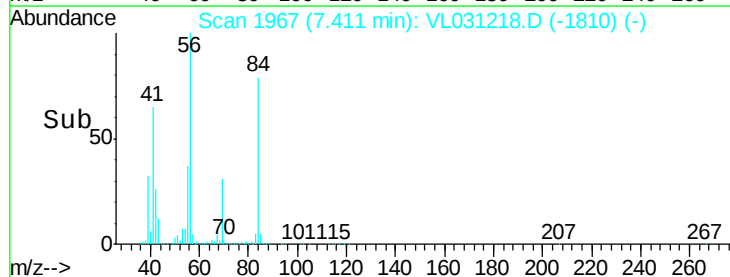
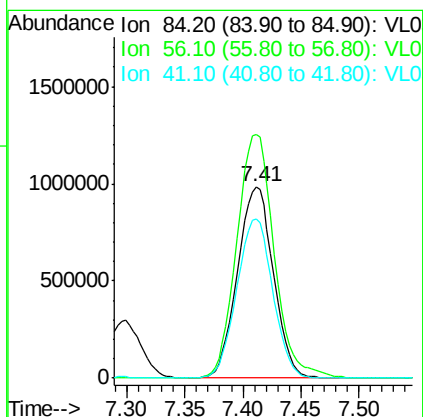
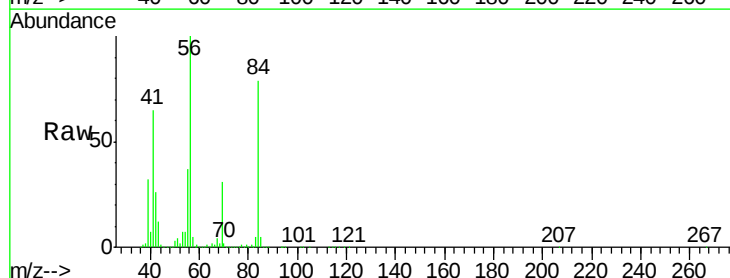
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

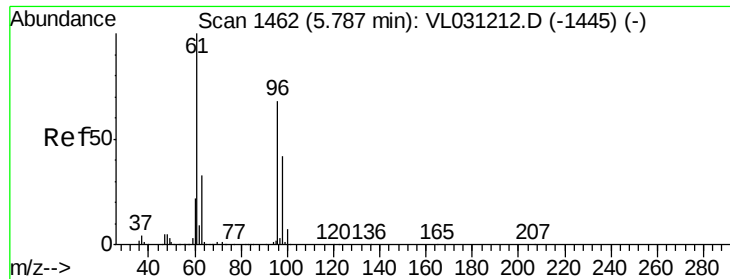
Tgt Ion: 83 Resp: 3612293
Ion Ratio Lower Upper
83 100
85 64.4 51.8 77.6



#30
Cyclohexane
Concen: 13.37 ppbv
RT: 7.41 min Scan# 1967
Delta R.T. 0.00 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

Tgt Ion: 84 Resp: 2113718
Ion Ratio Lower Upper
84 100
56 133.6 108.0 162.0
41 83.7 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 12.80 ppbv

RT: 5.79 min Scan# 1463

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

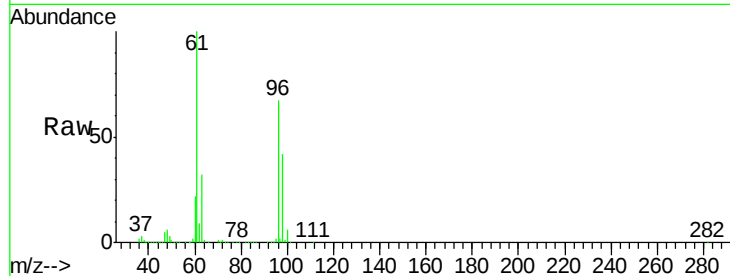
Tgt Ion: 61 Resp: 2423844

Ion Ratio Lower Upper

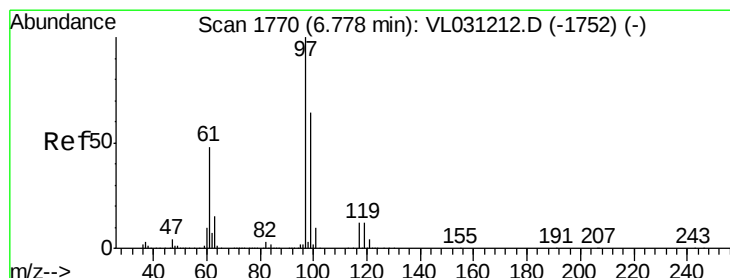
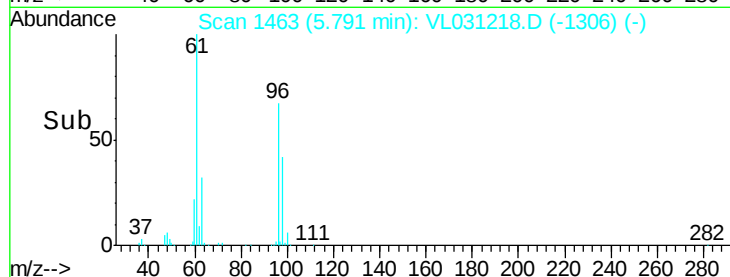
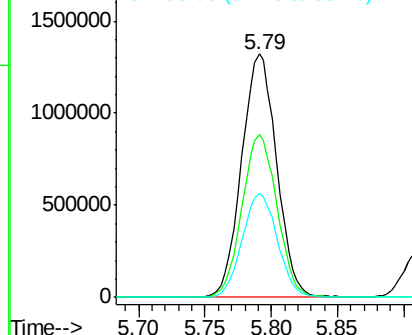
61 100

96 67.0 54.4 81.6

98 42.5 33.6 50.4



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



#32

1,1,1-Trichloroethane

Concen: 14.90 ppbv

RT: 6.78 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

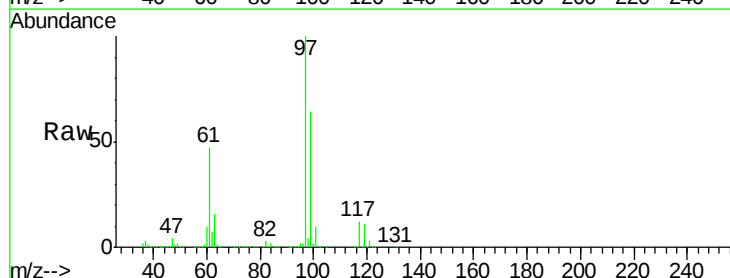
Tgt Ion: 97 Resp: 3523066

Ion Ratio Lower Upper

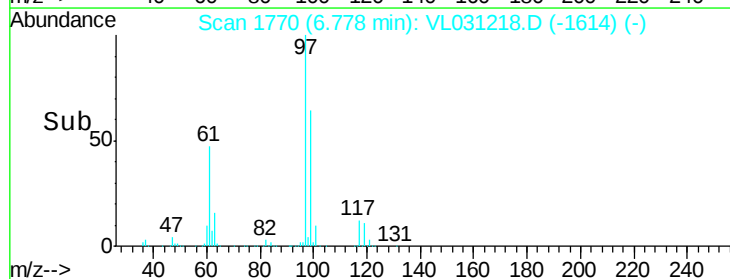
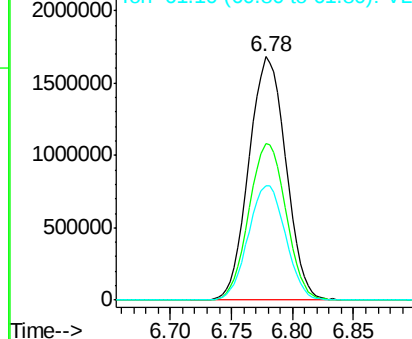
97 100

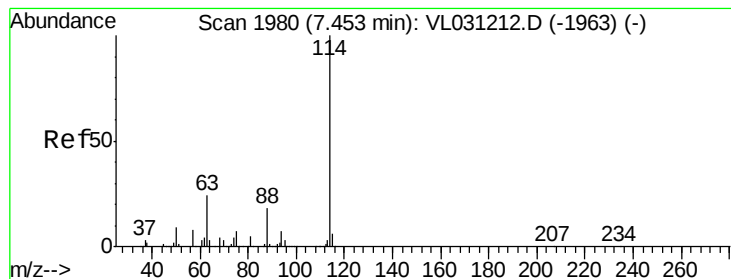
99 64.6 51.4 77.0

61 47.7 38.4 57.6



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: 10.00 ppbv

RT: 7.46 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

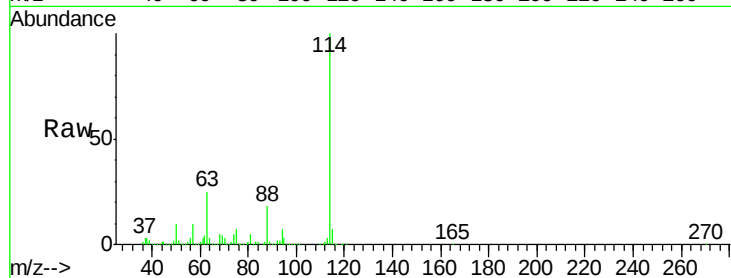
Tgt Ion:114 Resp: 4102323

Ion Ratio Lower Upper

114 100

63 24.8 19.8 29.8

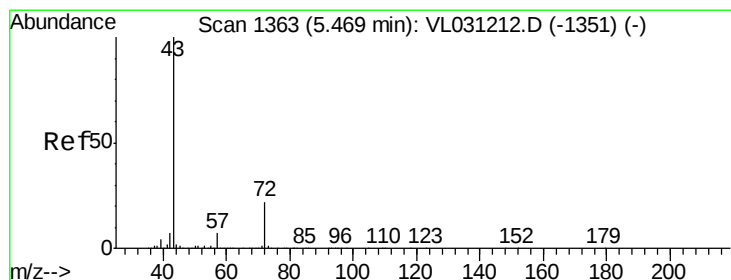
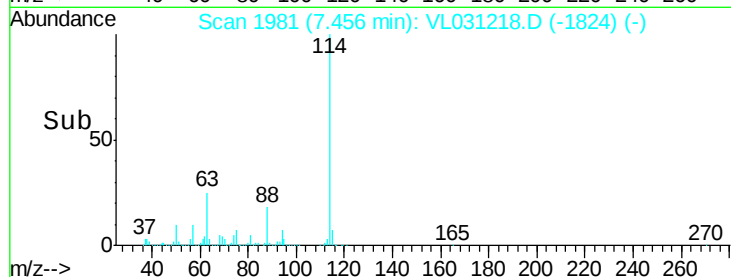
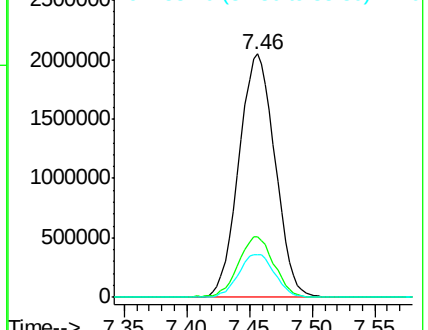
88 17.6 14.2 21.4



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



#34

2-Butanone

Concen: 11.02 ppbv

RT: 5.47 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VL031218.D

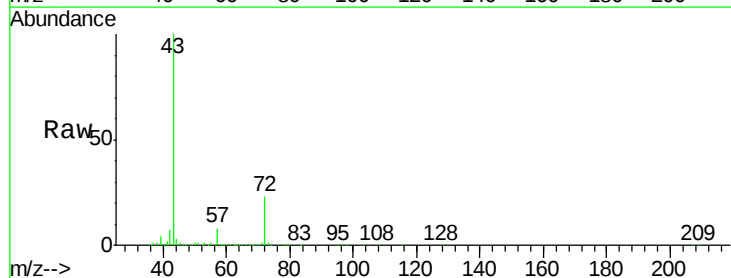
Acq: 14 Dec 2017 2:16

Tgt Ion: 43 Resp: 3709781

Ion Ratio Lower Upper

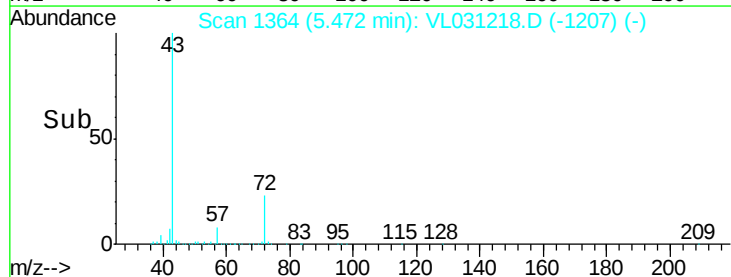
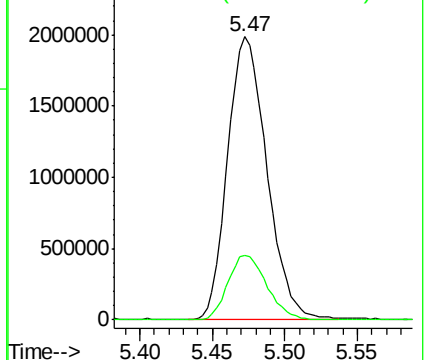
43 100

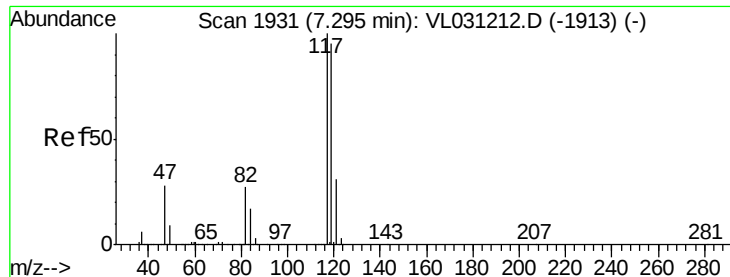
72 22.8 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 12.38 ppbv

RT: 7.30 min Scan# 1932

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

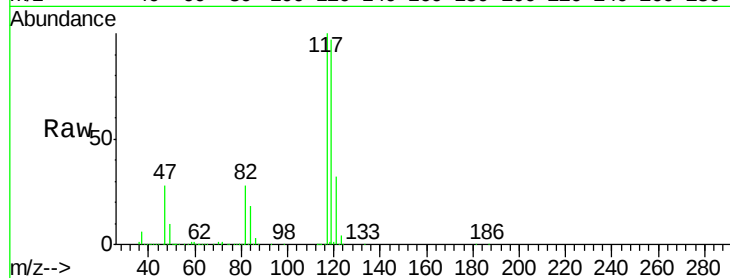
Tgt Ion: 117 Resp: 3568360

Ion Ratio Lower Upper

117 100

119 97.4 75.9 113.9

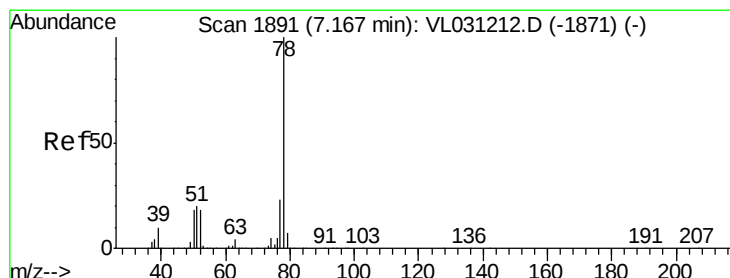
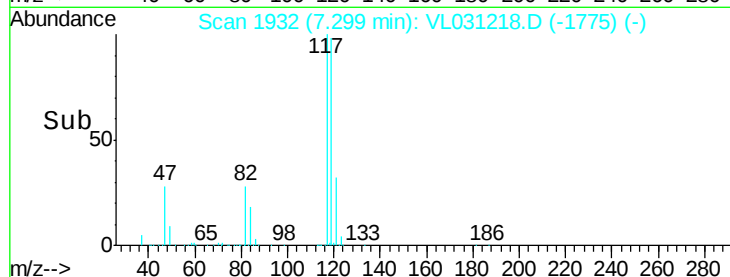
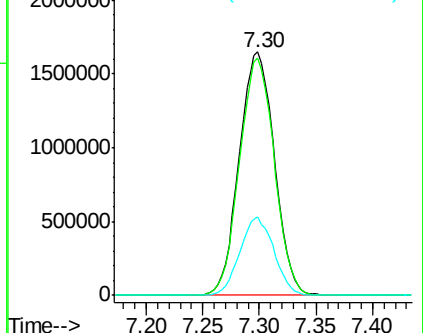
121 32.0 24.6 37.0



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



#36

Benzene

Concen: 10.94 ppbv

RT: 7.17 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

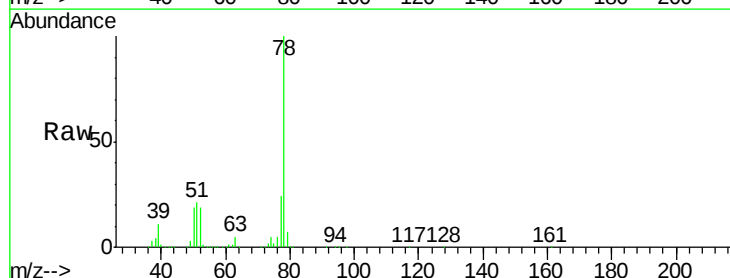
Tgt Ion: 78 Resp: 5138618

Ion Ratio Lower Upper

78 100

77 23.8 18.1 27.1

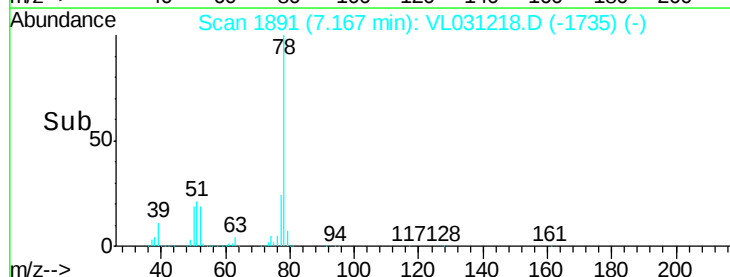
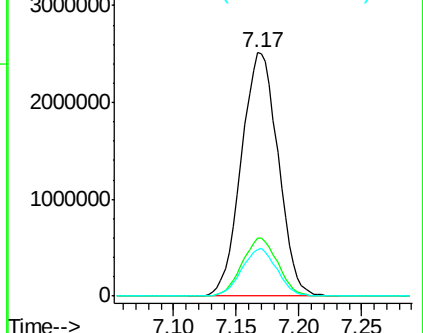
50 18.9 14.6 21.8

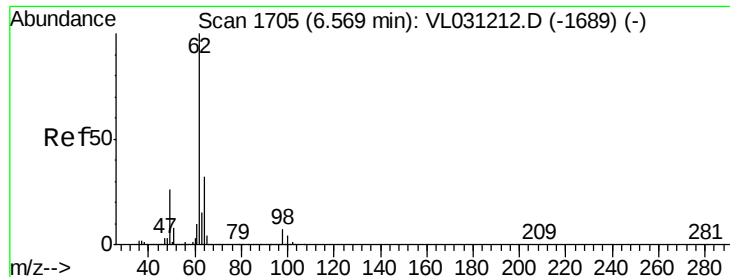


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.39 ppbv

RT: 6.57 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

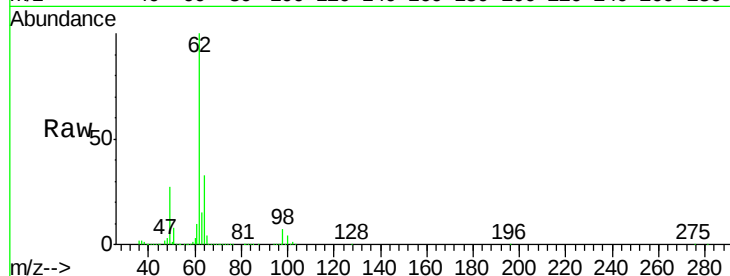
VSTDIC015

Tgt Ion: 62 Resp: 2867155

Ion Ratio Lower Upper

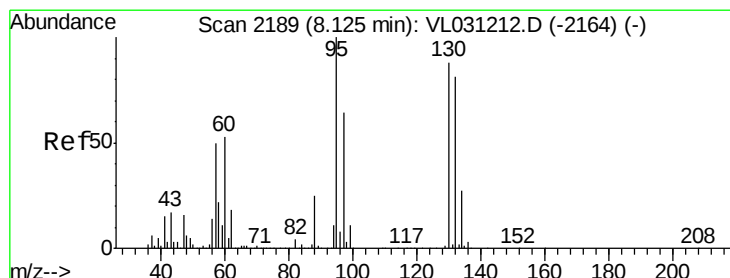
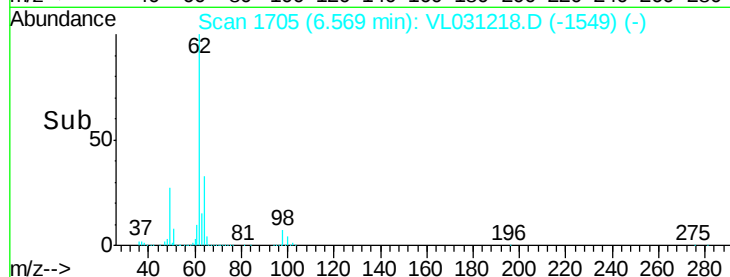
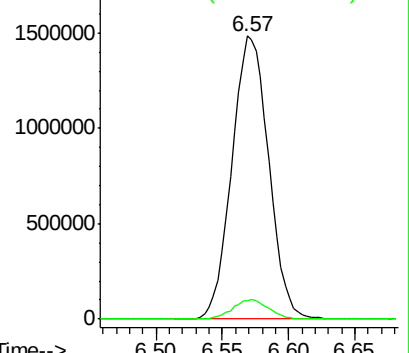
62 100

98 6.8 5.4 8.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 10.34 ppbv

RT: 8.13 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Tgt Ion: 130 Resp: 1848277

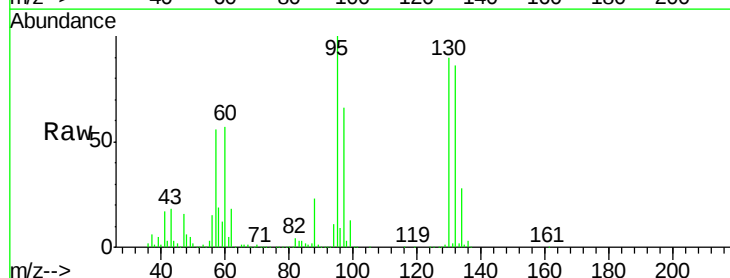
Ion Ratio Lower Upper

130 100

95 111.2 90.6 135.8

132 95.2 73.5 110.3

97 73.1 57.8 86.8

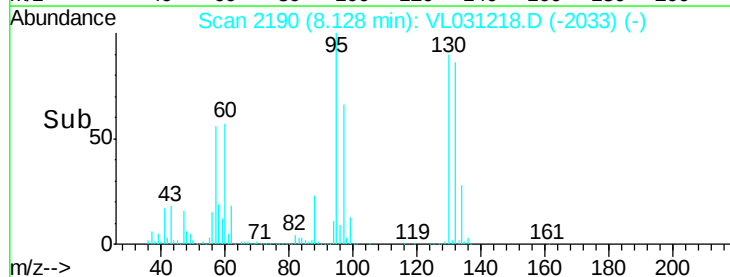
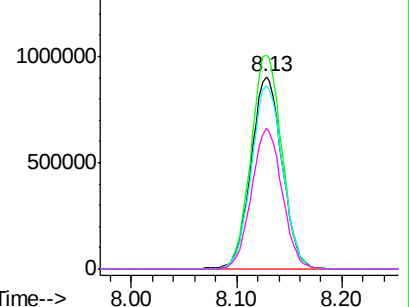


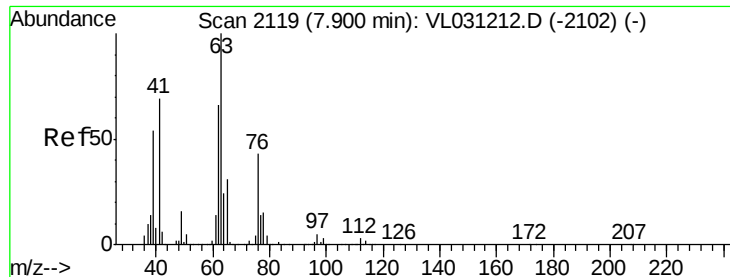
Abundance Ion 130.00 (129.70 to 130.70): V

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

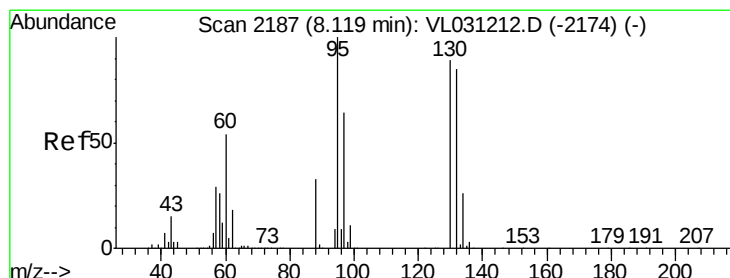
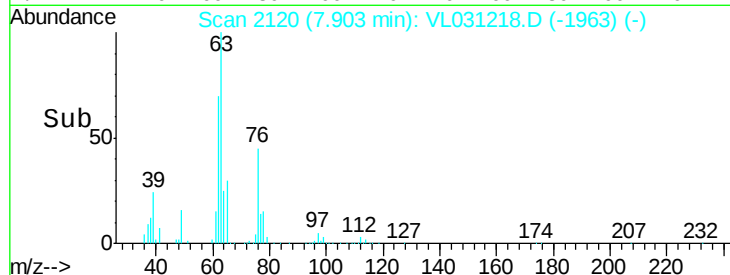
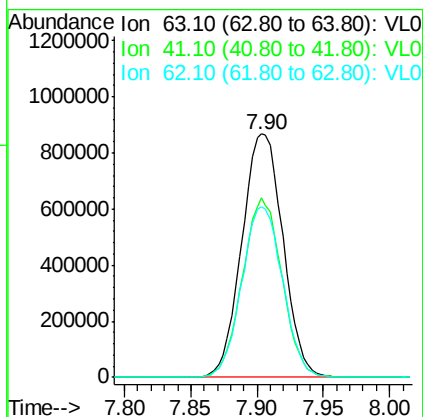
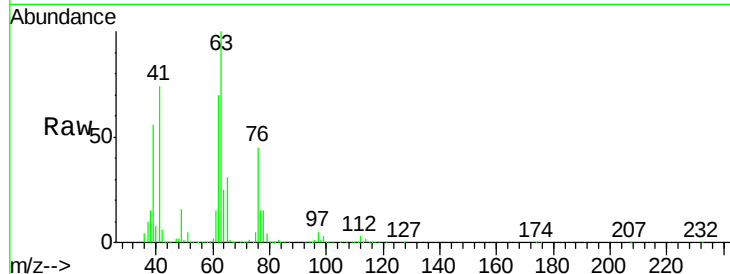




#39
 1,2-Dichloropropane
 Concen: 10.44 ppbv
 RT: 7.90 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

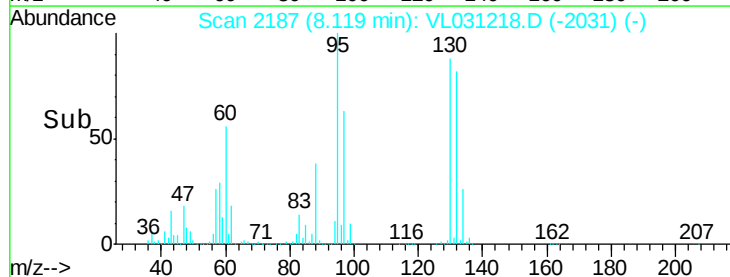
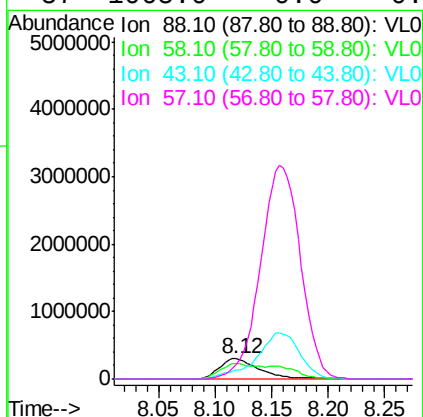
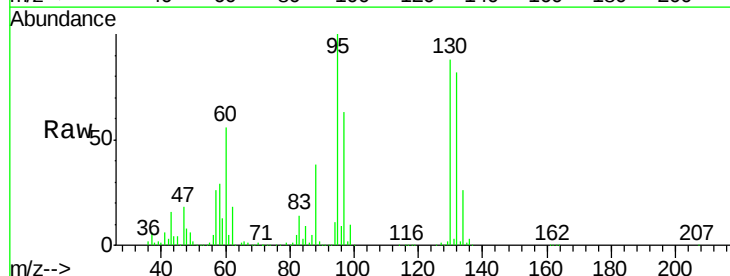
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

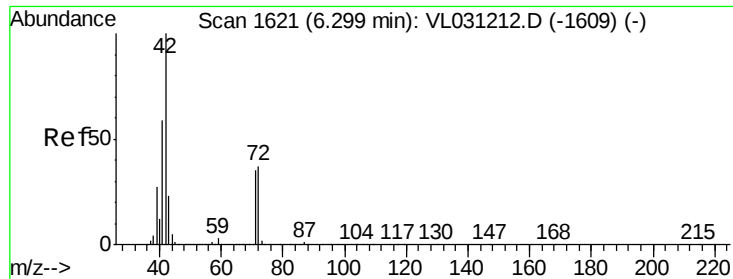
Tgt Ion: 63 Resp: 1875965
 Ion Ratio Lower Upper
 63 100
 41 73.5 55.2 82.8
 62 70.0 53.0 79.4



#40
 1,4-Dioxane
 Concen: 10.23 ppbv
 RT: 8.12 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Tgt Ion: 88 Resp: 731243
 Ion Ratio Lower Upper
 88 100
 58 124.8 104.3 156.5
 43 248.3 0.0 0.0#
 57 1065.0 0.0 0.0#





#41

Tetrahydrofuran

Concen: 12.02 ppbv

RT: 6.30 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

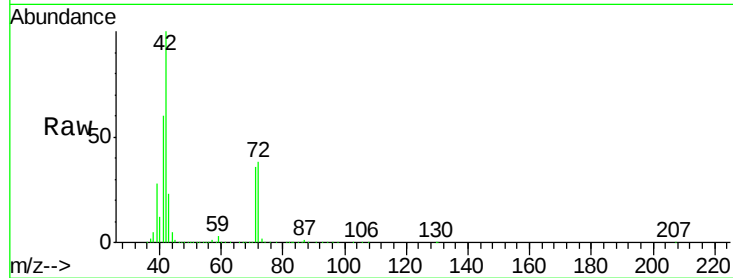
Tgt Ion: 42 Resp: 2118237

Ion Ratio Lower Upper

42 100

72 38.0 30.2 45.4

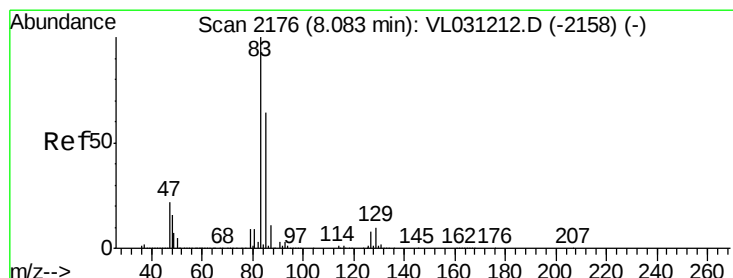
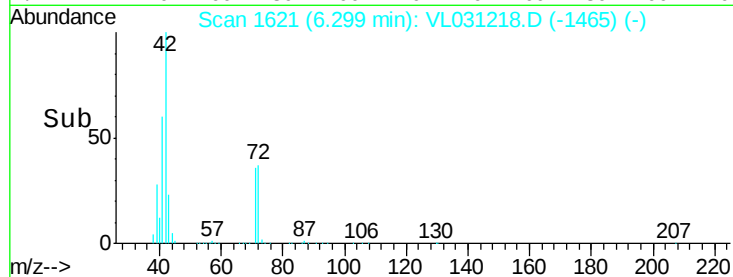
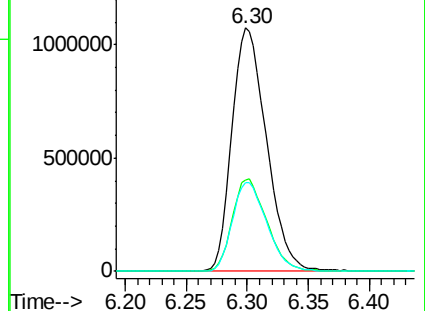
71 36.7 29.0 43.6



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



#42

Bromodichloromethane

Concen: 11.10 ppbv

RT: 8.09 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

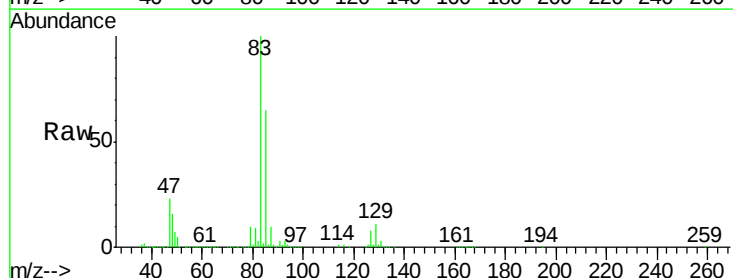
Tgt Ion: 83 Resp: 3648310

Ion Ratio Lower Upper

83 100

85 64.6 51.5 77.3

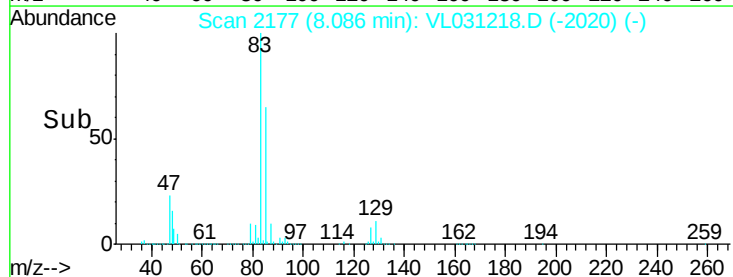
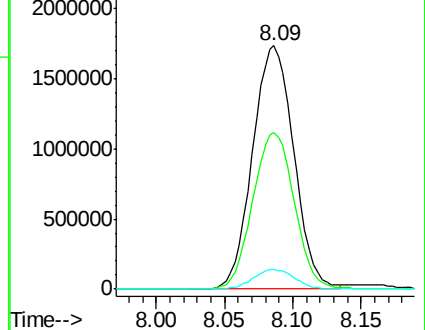
127 8.2 6.5 9.7

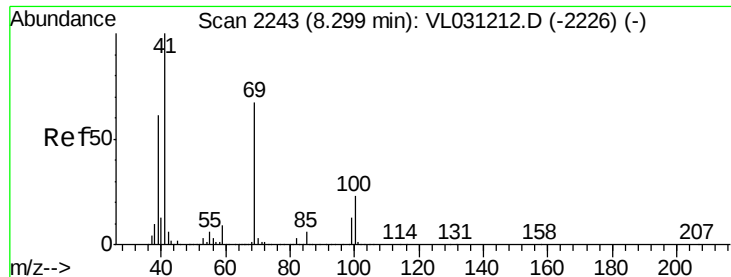


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 11.53 ppbv

RT: 8.30 min Scan# 2243

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

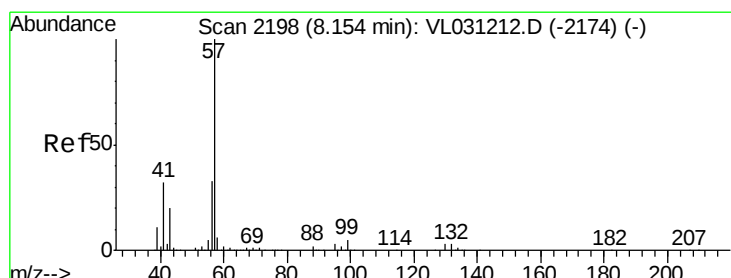
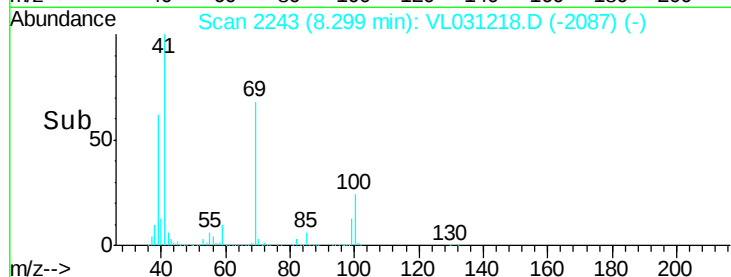
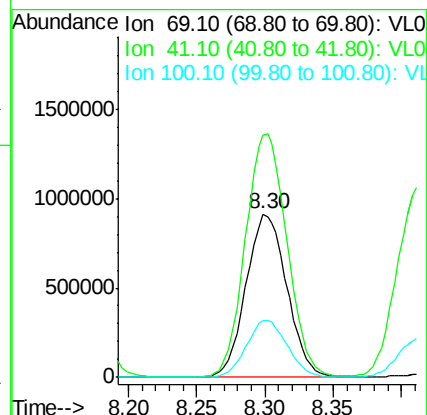
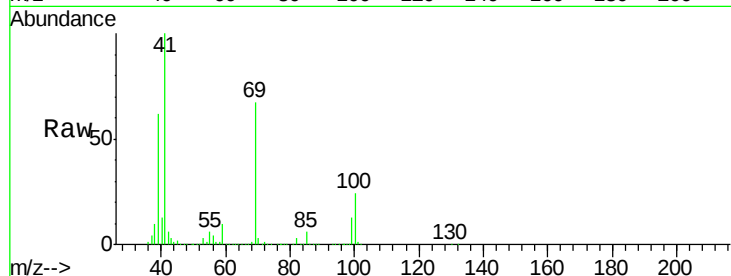
Tgt Ion: 69 Resp: 1893600

Ion Ratio Lower Upper

69 100

41 151.6 121.1 181.7

100 34.9 27.4 41.2



#44

2,2,4-Trimethylpentane

Concen: 9.90 ppbv

RT: 8.16 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

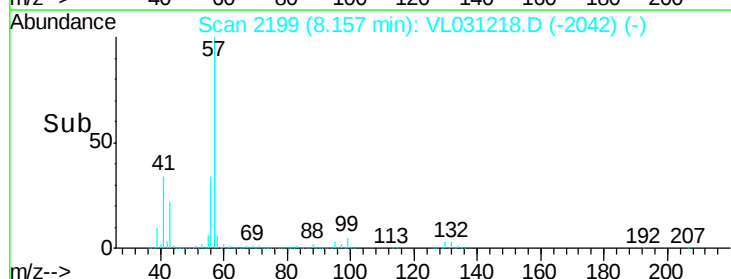
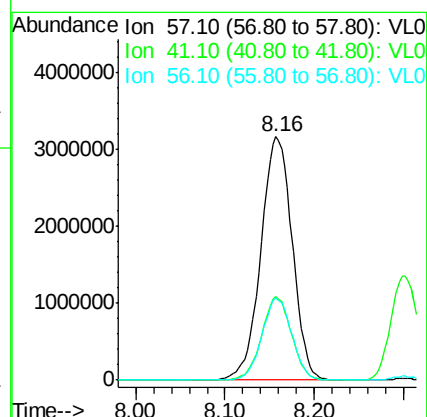
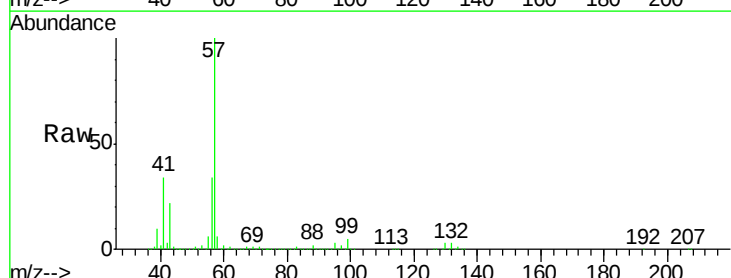
Tgt Ion: 57 Resp: 7779160

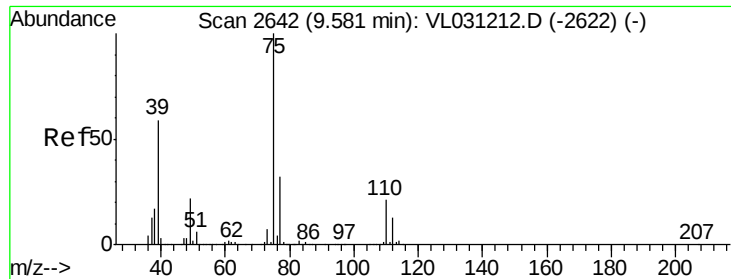
Ion Ratio Lower Upper

57 100

41 32.4 25.5 38.3

56 31.9 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 14.04 ppbv

RT: 9.58 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

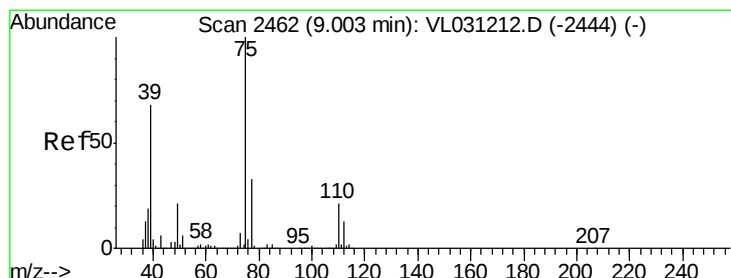
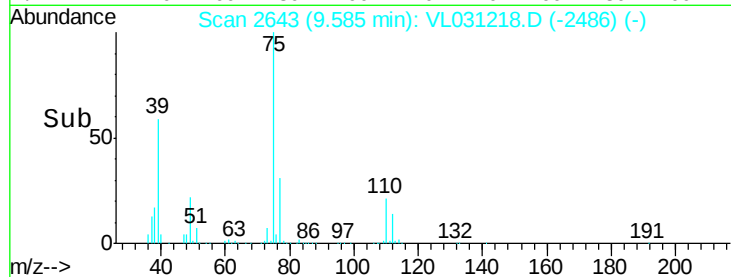
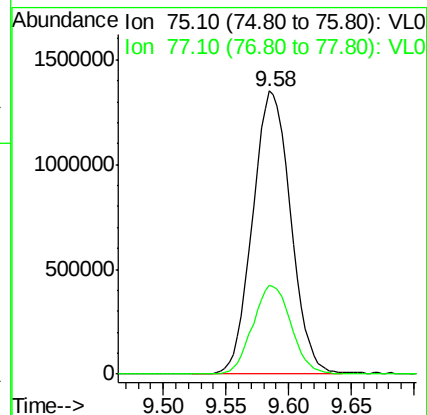
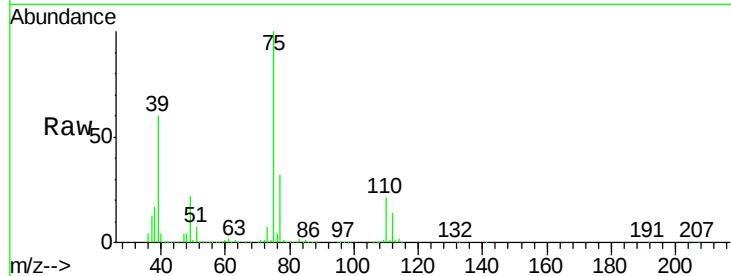
VSTDIC015

Tgt Ion: 75 Resp: 2858350

Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 12.53 ppbv

RT: 9.01 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

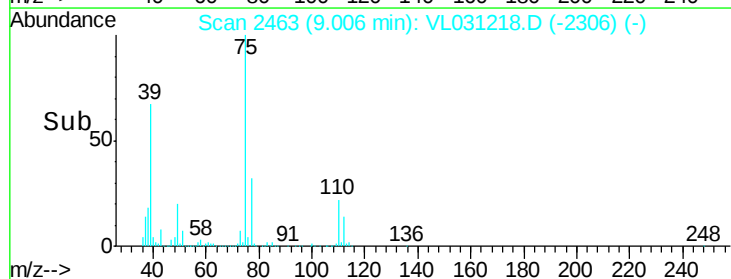
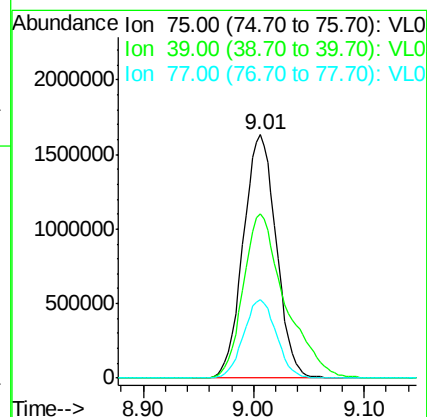
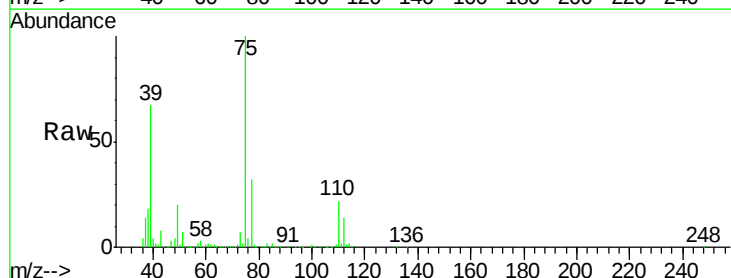
Tgt Ion: 75 Resp: 3375821

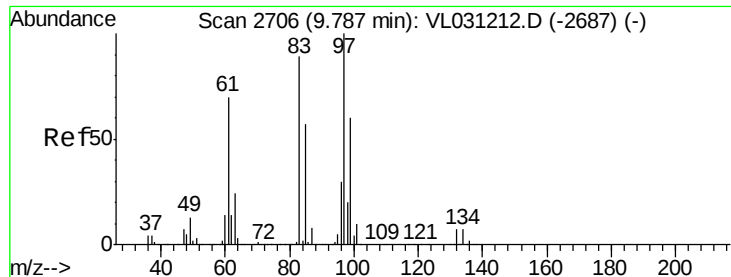
Ion Ratio Lower Upper

75 100

39 67.4 54.2 81.4

77 32.2 26.2 39.4

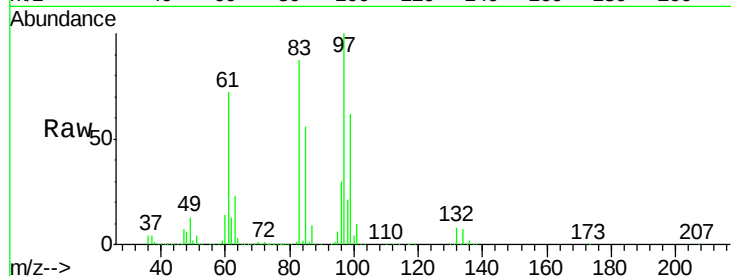




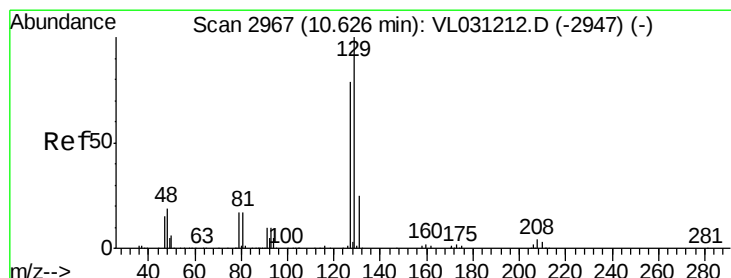
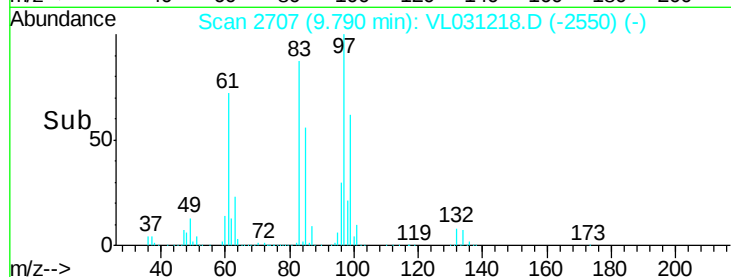
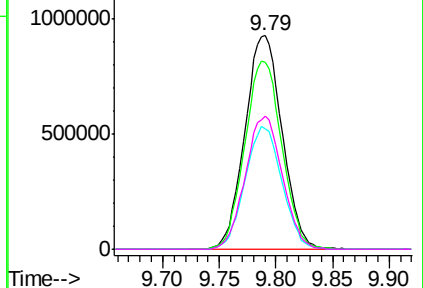
#47
 1,1,2-Trichloroethane
 Concen: 11.14 ppbv
 RT: 9.79 min Scan# 2707
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 97 Resp: 2123211
 Ion Ratio Lower Upper
 97 100
 83 87.2 71.0 106.4
 85 56.5 45.3 67.9
 99 62.2 47.8 71.6

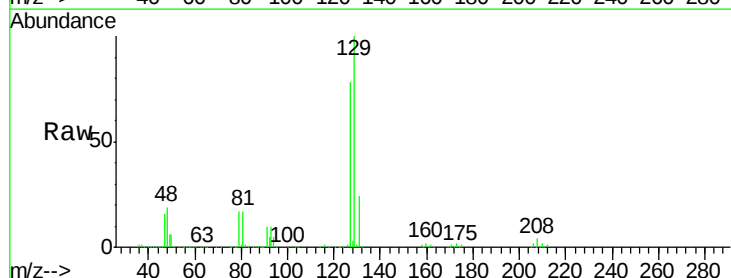


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

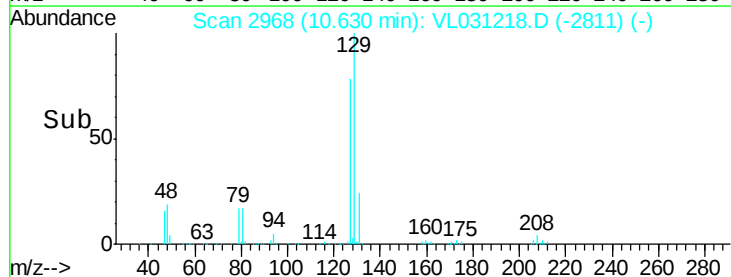
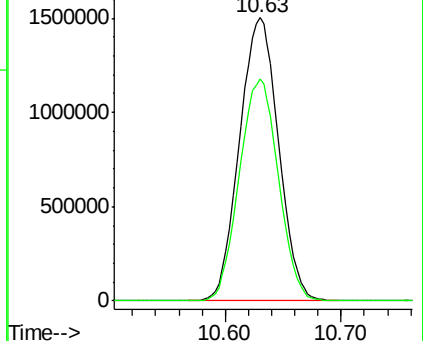


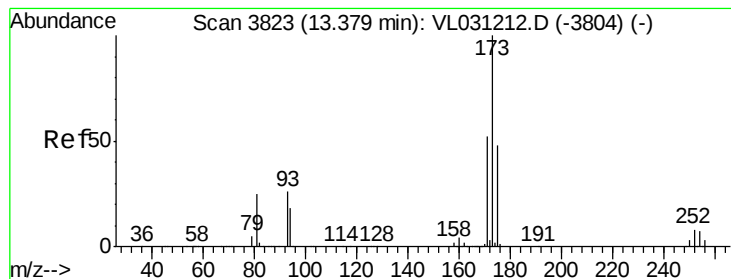
#48
 Dibromochloromethane
 Concen: 13.70 ppbv
 RT: 10.63 min Scan# 2968
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Tgt Ion: 129 Resp: 3511319
 Ion Ratio Lower Upper
 129 100
 127 78.6 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 13.56 ppbv

RT: 13.38 min Scan# 3824

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

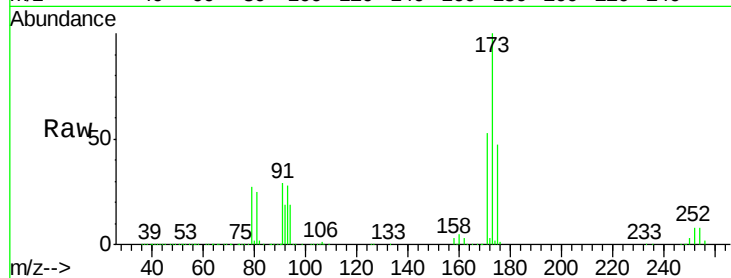
Tgt Ion:173 Resp: 2625441

Ion Ratio Lower Upper

173 100

175 48.9 39.0 58.4

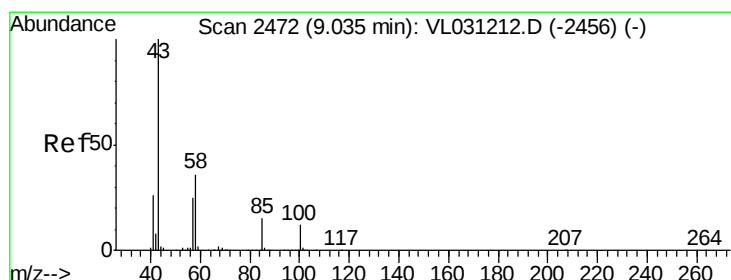
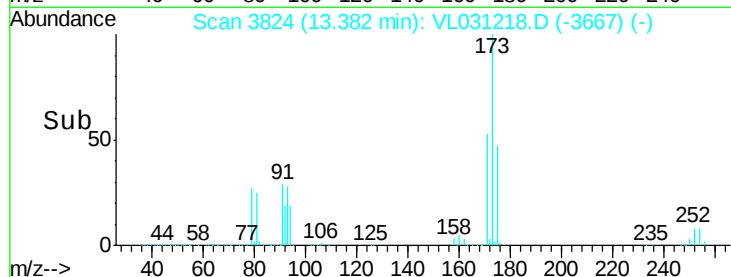
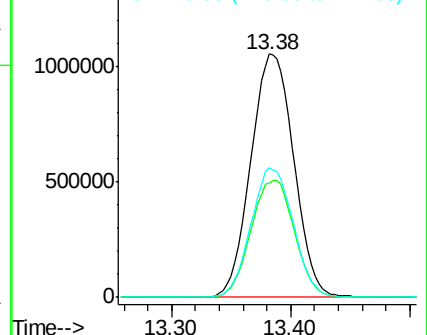
171 52.6 41.8 62.8



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: 10.77 ppbv

RT: 9.04 min Scan# 2473

Delta R.T. 0.00 min

Lab File: VL031218.D

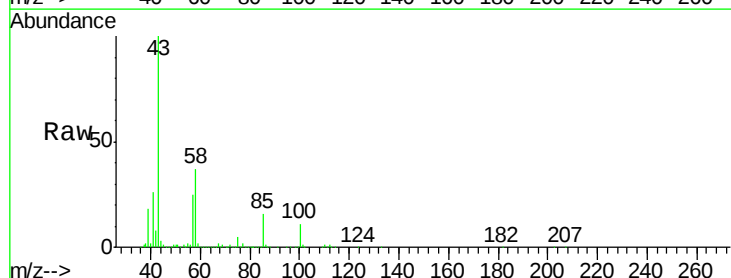
Acq: 14 Dec 2017 2:16

Tgt Ion: 43 Resp: 4586226

Ion Ratio Lower Upper

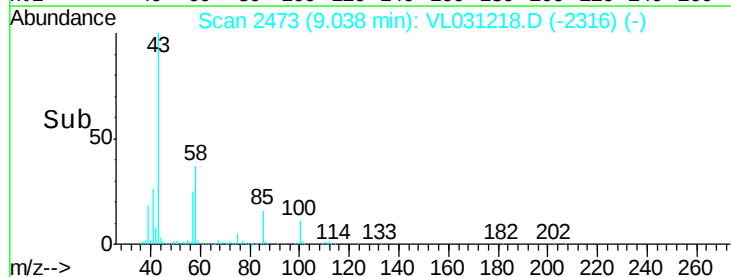
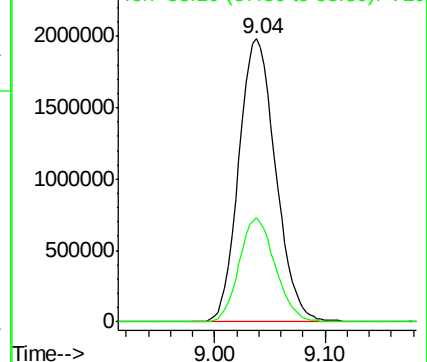
43 100

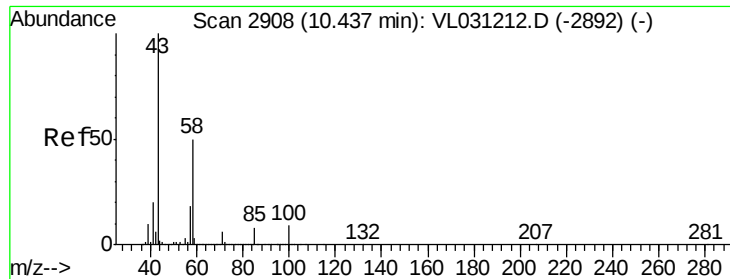
58 36.1 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.71 ppbv

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

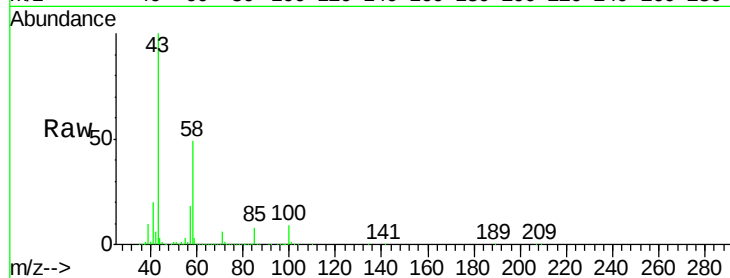
MSVOA_L

ClientSampleId :

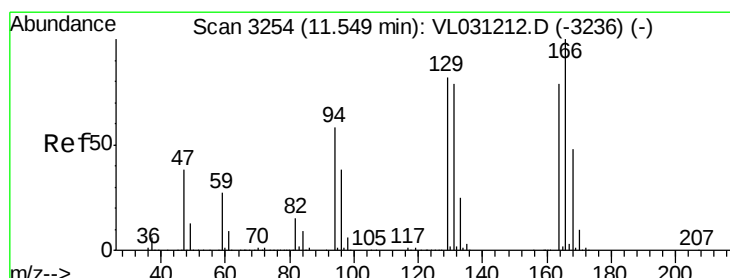
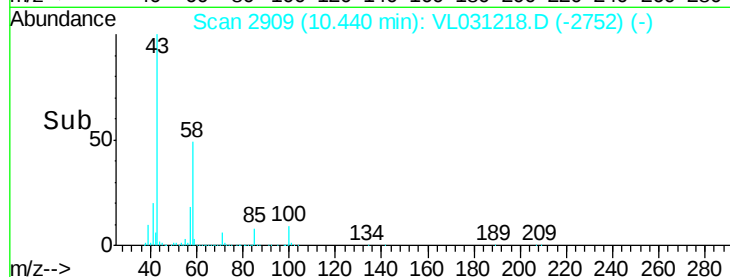
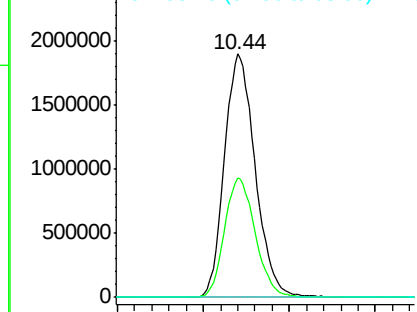
VSTDIC015

Tgt Ion: 43 Resp: 4719203

Ion	Ratio	Lower	Upper
43	100		
58	49.2	39.8	59.6
98	0.1	0.0	0.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.58 ppbv

RT: 11.55 min Scan# 3255

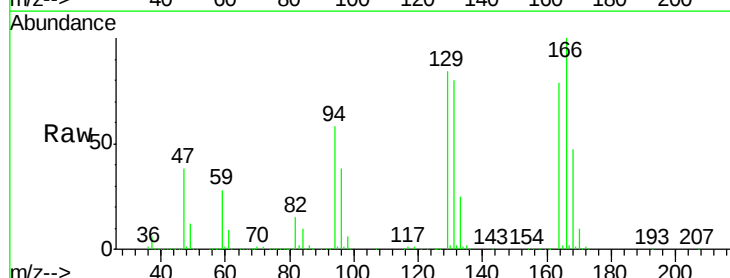
Delta R.T. 0.00 min

Lab File: VL031218.D

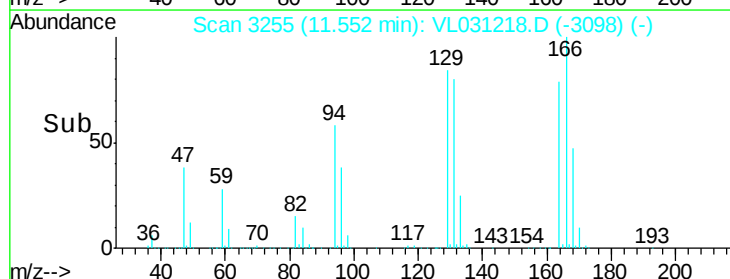
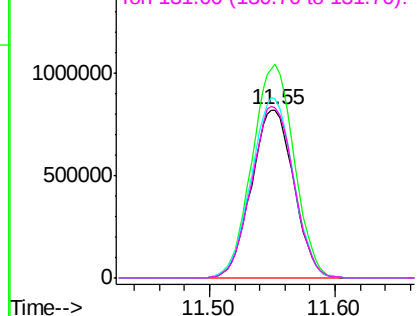
Acq: 14 Dec 2017 2:16

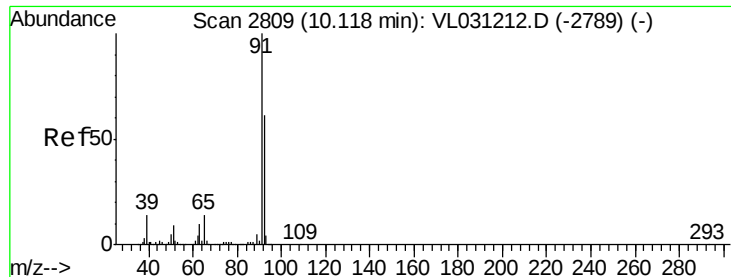
Tgt Ion: 164 Resp: 1929437

Ion	Ratio	Lower	Upper
164	100		
166	127.1	100.6	151.0
129	106.5	82.9	124.3
131	101.2	79.2	118.8



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: 11.59 ppbv

RT: 10.12 min Scan# 2810

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

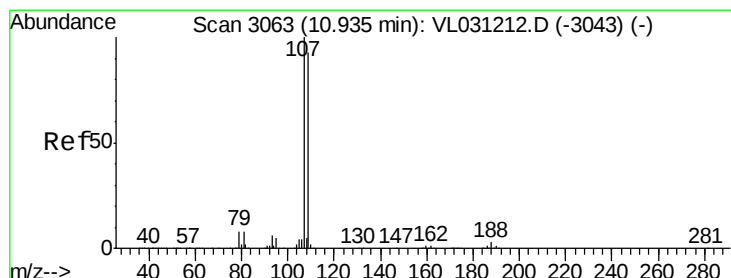
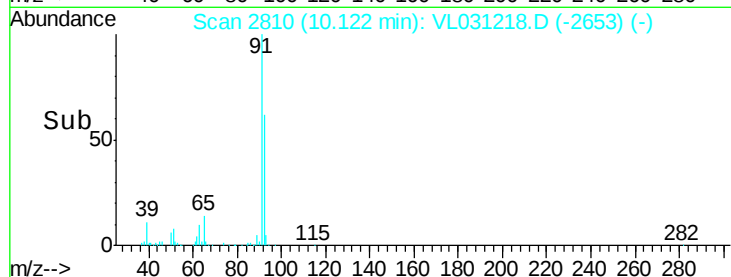
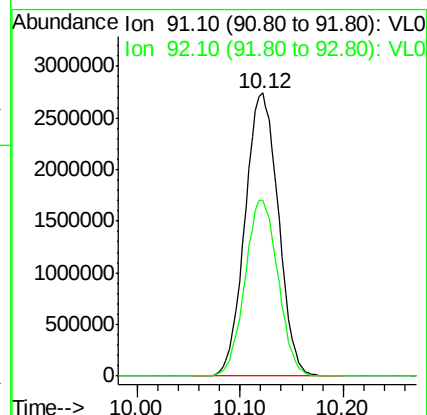
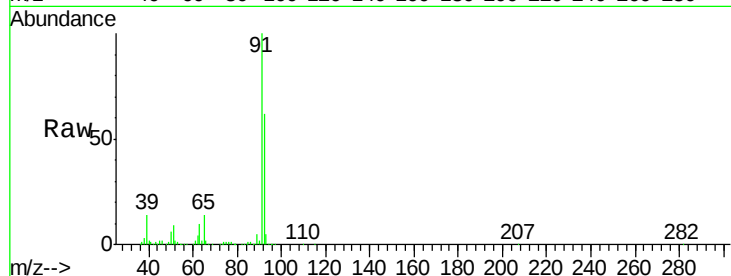
VSTDIC015

Tgt Ion: 91 Resp: 6158799

Ion Ratio Lower Upper

91 100

92 61.7 49.1 73.7



#54

1,2-Dibromoethane

Concen: 12.21 ppbv

RT: 10.94 min Scan# 3064

Delta R.T. 0.00 min

Lab File: VL031218.D

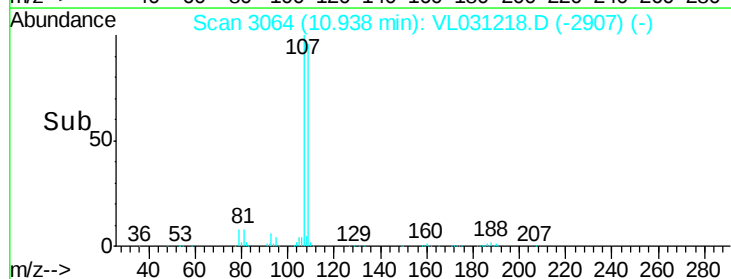
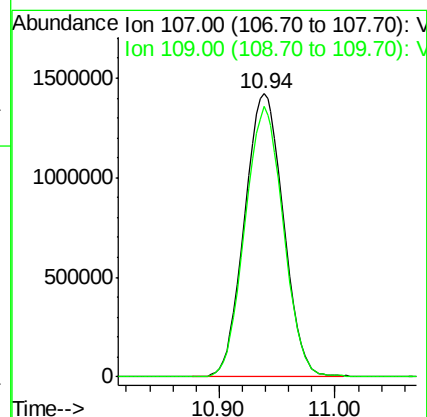
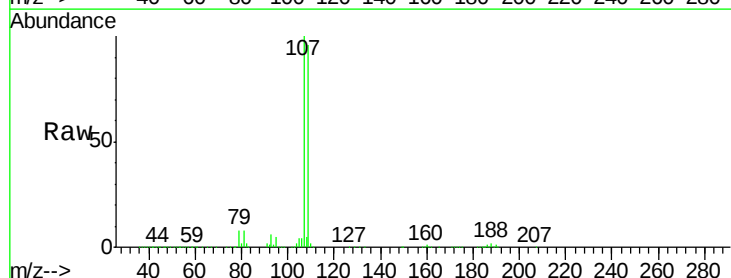
Acq: 14 Dec 2017 2:16

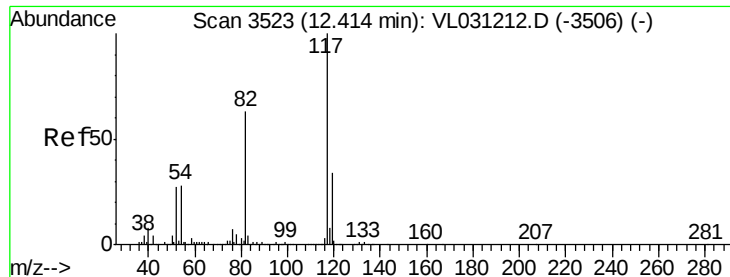
Tgt Ion: 107 Resp: 3310397

Ion Ratio Lower Upper

107 100

109 95.7 74.7 112.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.42 min Scan# 3525

Delta R.T. 0.01 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

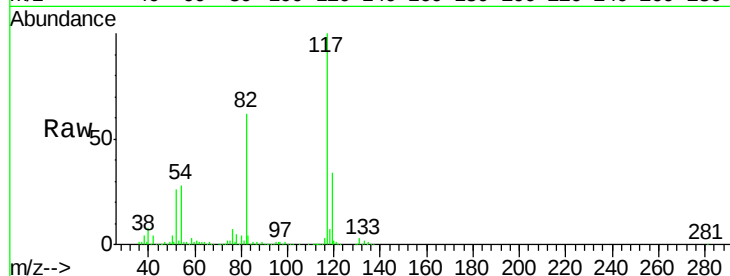
MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:117 Resp: 5674897

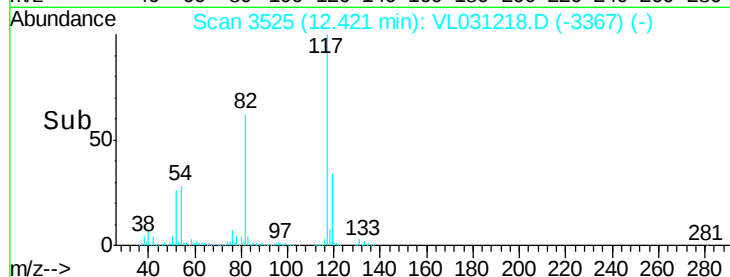
Ion	Ratio	Lower	Upper
117	100		
82	48.8	48.1	72.1
119	25.7	23.1	34.7



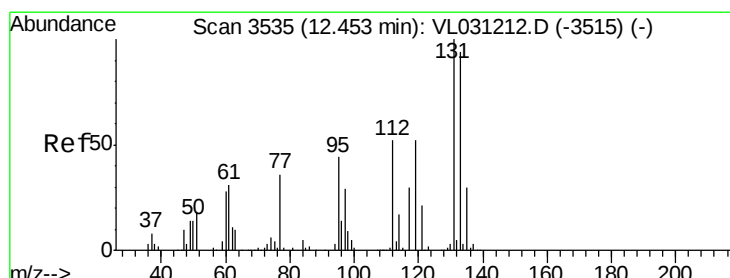
Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



Time-->



#56

1,1,1,2-Tetrachloroethane

Concen: 9.86 ppbv

RT: 12.46 min Scan# 3537

Delta R.T. 0.01 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

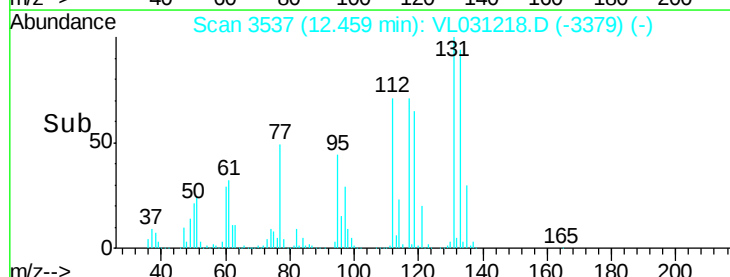
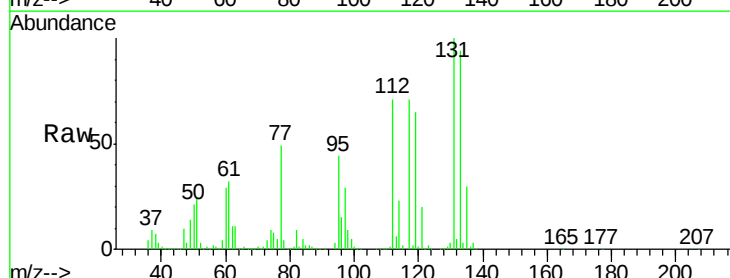
Tgt Ion:131 Resp: 2294516

Ion	Ratio	Lower	Upper
131	100		
133	95.1	76.1	114.1
119	59.3	108.5	162.7

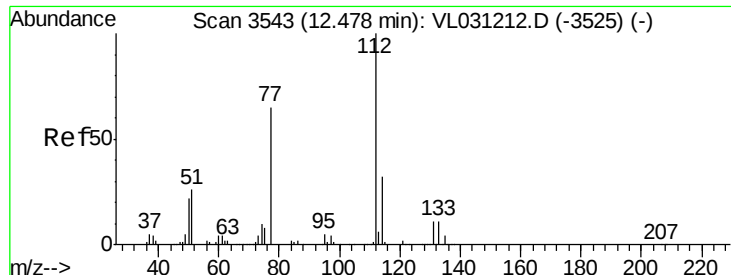
Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



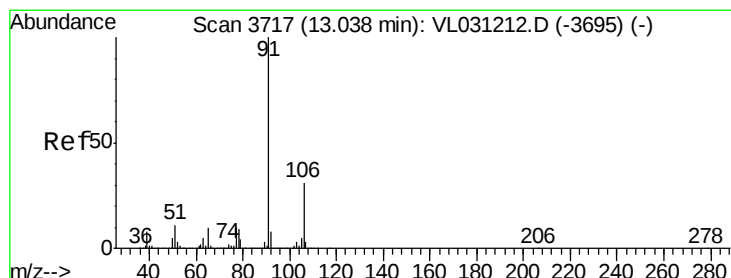
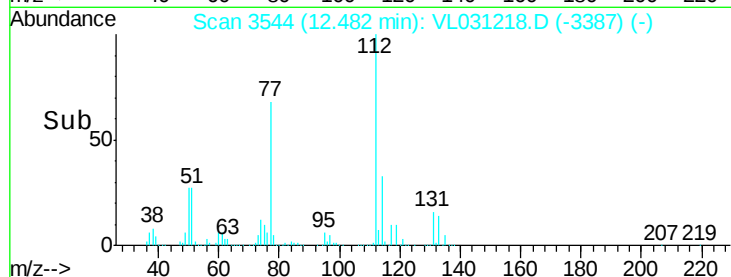
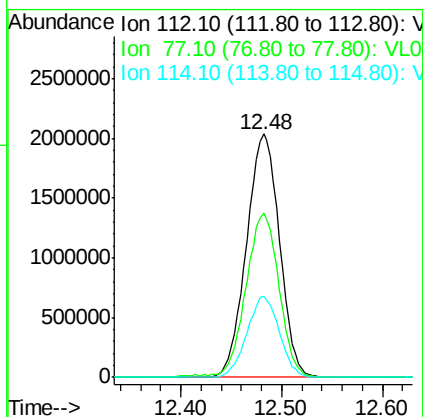
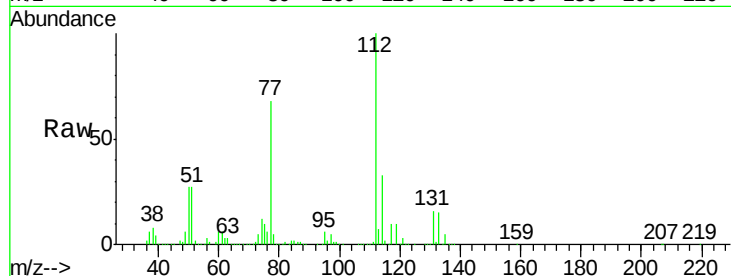
Time-->



#57
Chlorobenzene
Concen: 8.33 ppbv
RT: 12.48 min Scan# 3544
Delta R.T. 0.00 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

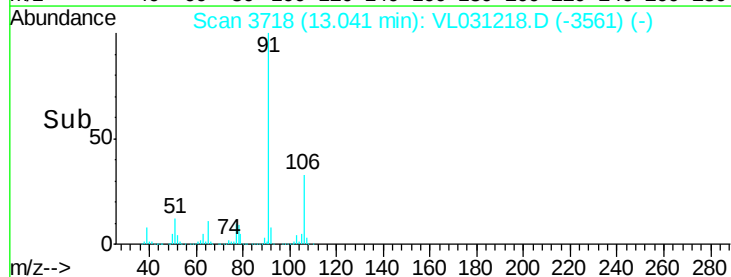
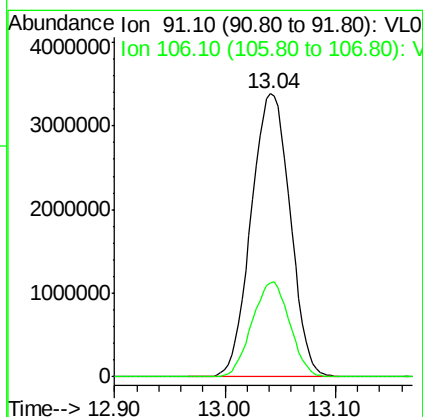
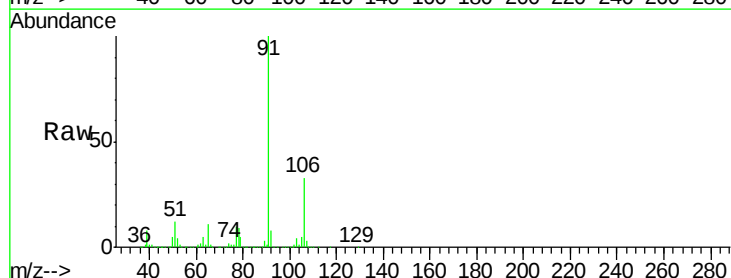
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

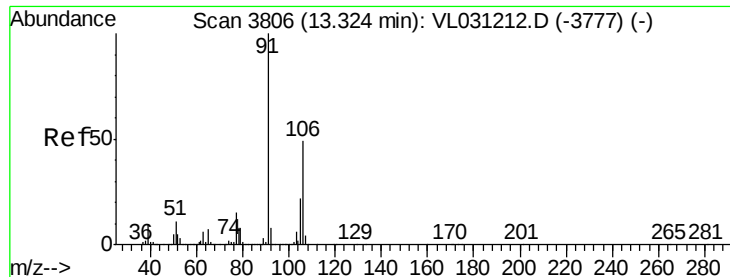
Tgt Ion: 112 Resp: 4618640
Ion Ratio Lower Upper
112 100
77 67.5 52.9 79.3
114 33.2 29.1 35.5



#58
Ethyl Benzene
Concen: 8.53 ppbv
RT: 13.04 min Scan# 3718
Delta R.T. 0.00 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

Tgt Ion: 91 Resp: 8291096
Ion Ratio Lower Upper
91 100
106 33.3 25.1 37.7

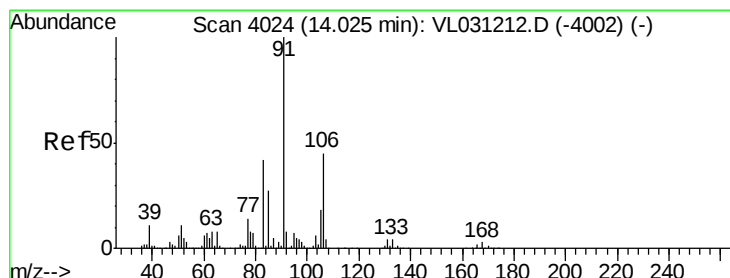
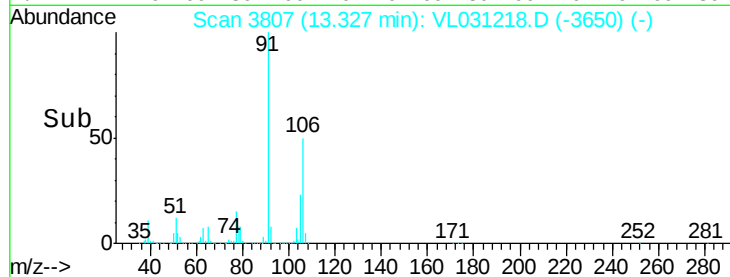
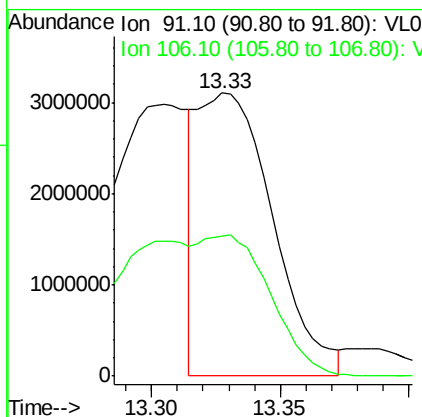
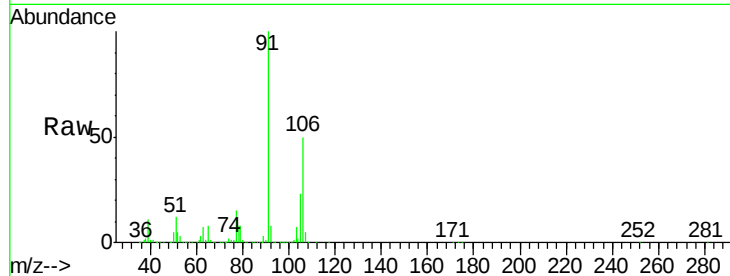




#59
m/p-Xylene
Concen: 7.66 ppbv
RT: 13.33 min Scan# 3807
Delta R.T. 0.00 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

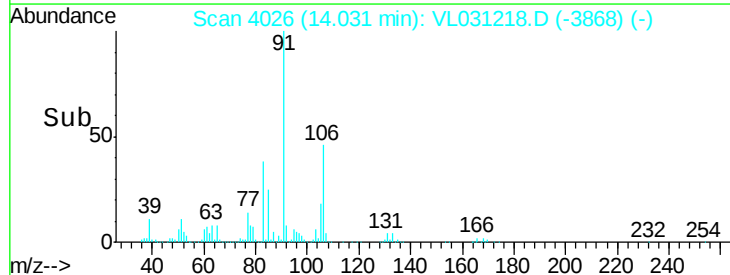
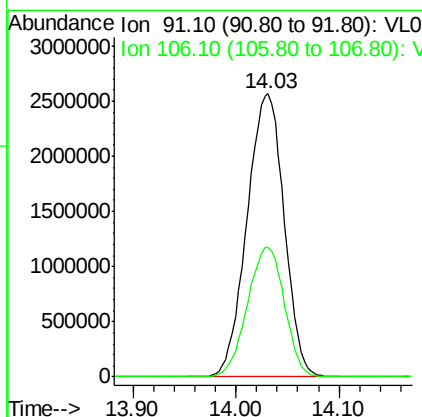
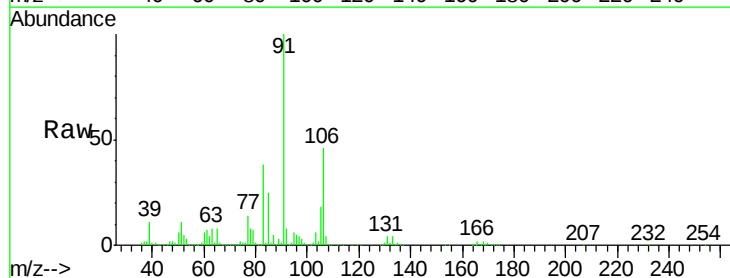
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

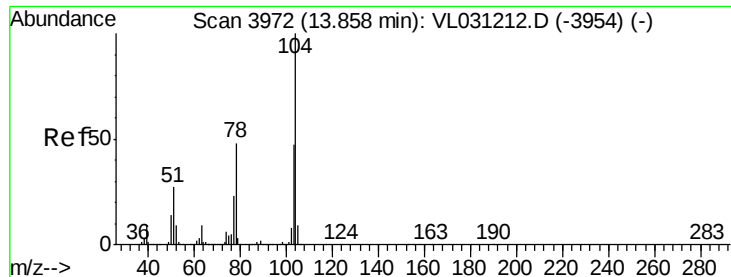
Tgt Ion: 91 Resp: 6280276
Ion Ratio Lower Upper
91 100
106 99.9 38.5 57.7#



#60
o-Xylene
Concen: 7.84 ppbv
RT: 14.03 min Scan# 4026
Delta R.T. 0.01 min
Lab File: VL031218.D
Acq: 14 Dec 2017 2:16

Tgt Ion: 91 Resp: 6397358
Ion Ratio Lower Upper
91 100
106 45.8 22.7 68.1





#61

Styrene

Concen: 10.16 ppbv

RT: 13.86 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

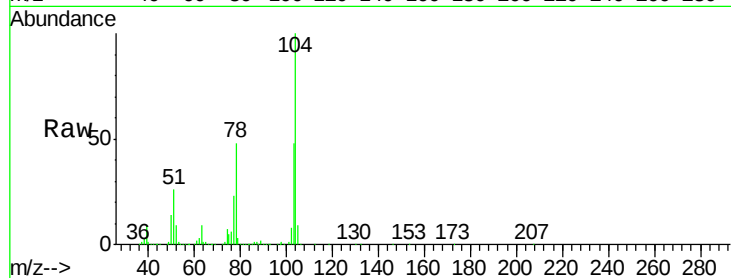
Tgt Ion:104 Resp: 2083089

Ion Ratio Lower Upper

104 100

78 48.5 39.1 58.7

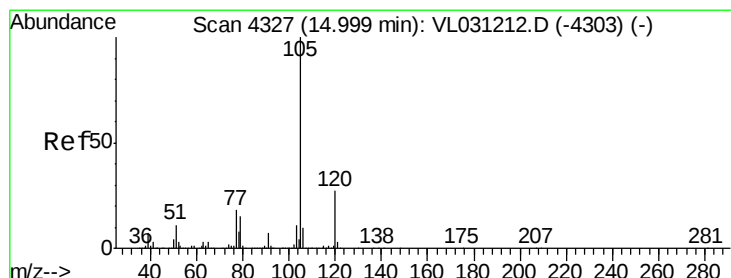
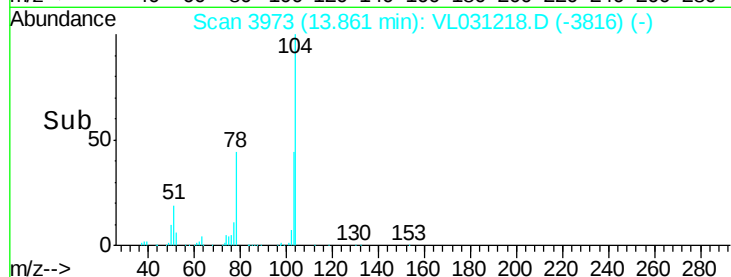
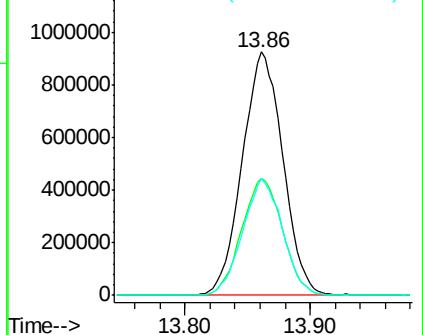
103 47.1 37.3 55.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.81 ppbv

RT: 15.00 min Scan# 4328

Delta R.T. 0.00 min

Lab File: VL031218.D

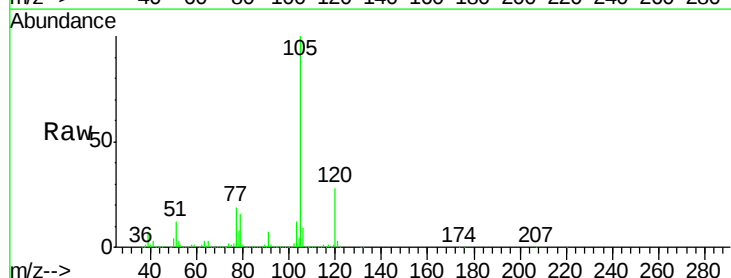
Acq: 14 Dec 2017 2:16

Tgt Ion:105 Resp: 8603400

Ion Ratio Lower Upper

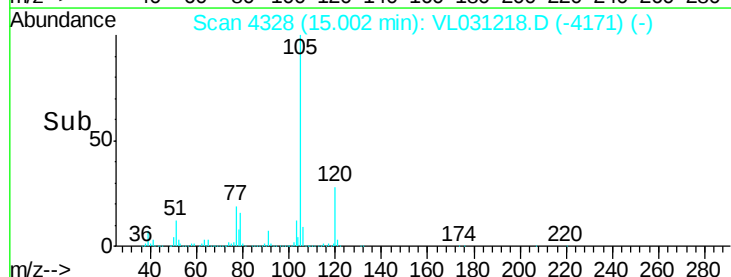
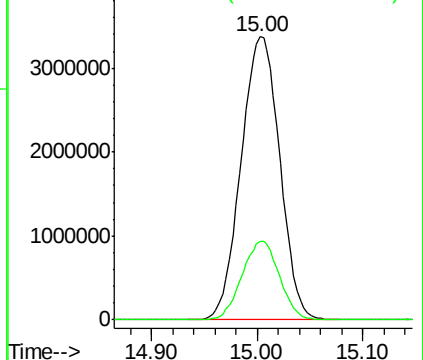
105 100

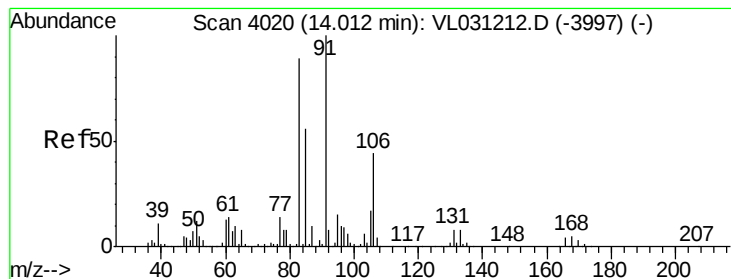
120 27.0 21.0 31.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 6.51 ppbv

RT: 14.01 min Scan# 4020

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

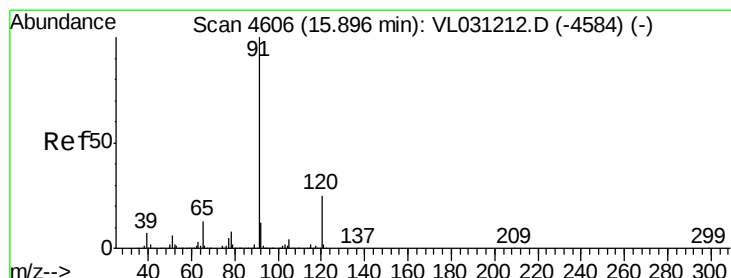
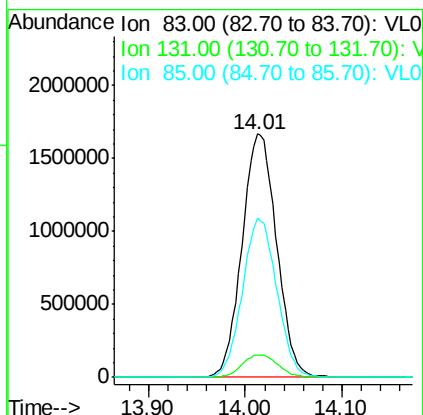
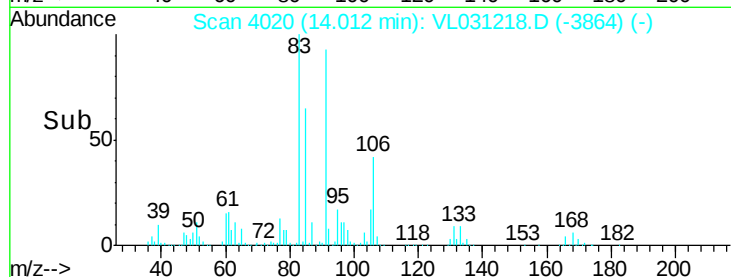
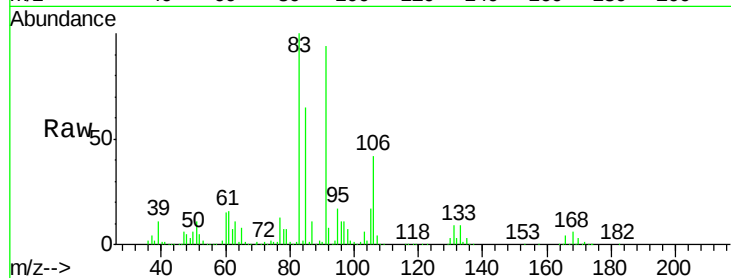
Tgt Ion: 83 Resp: 4141100

Ion Ratio Lower Upper

83 100

131 9.6 4.8 14.3

85 65.1 32.1 96.5



#64

n-propylbenzene

Concen: 8.87 ppbv

RT: 15.90 min Scan# 4607

Delta R.T. 0.00 min

Lab File: VL031218.D

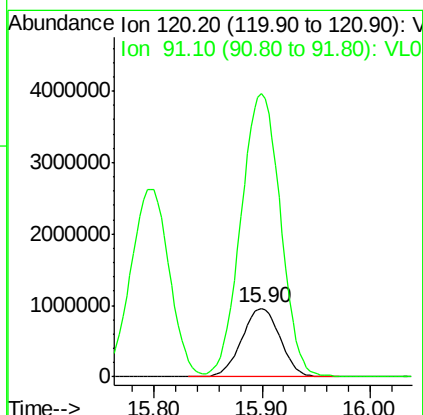
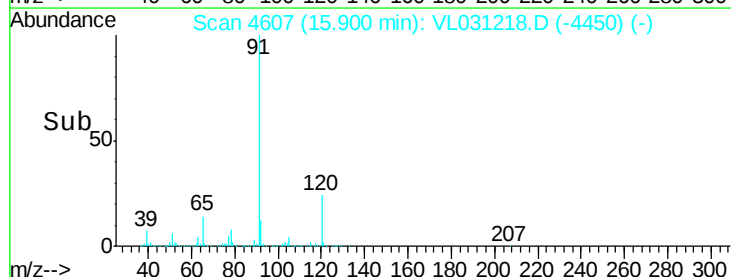
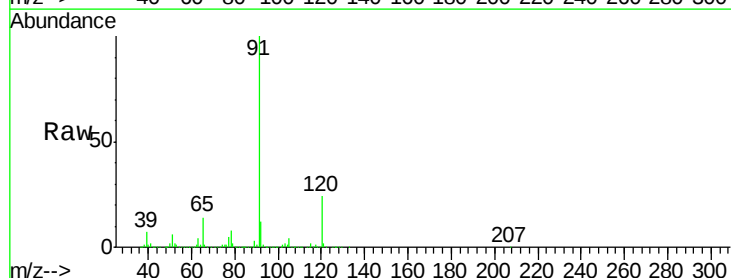
Acq: 14 Dec 2017 2:16

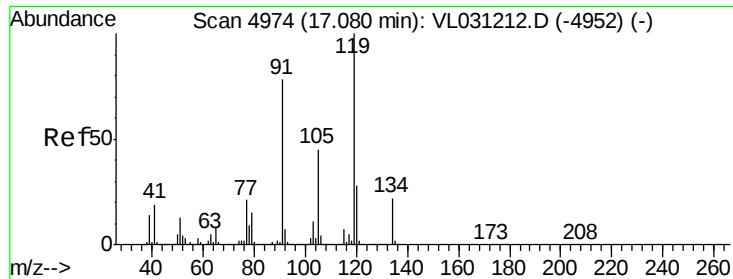
Tgt Ion: 120 Resp: 2368632

Ion Ratio Lower Upper

120 100

91 426.7 352.1 528.1

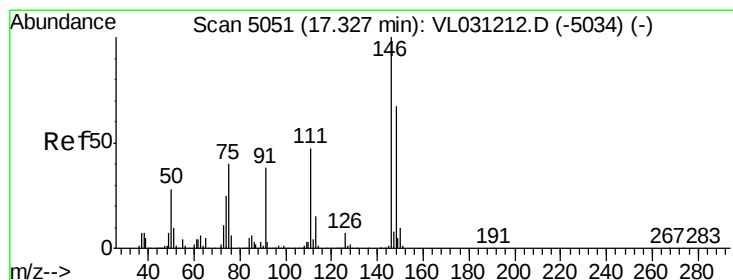
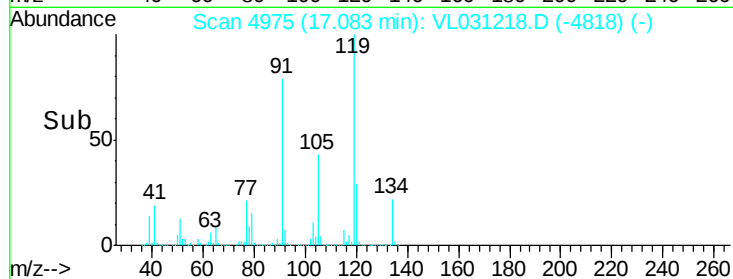
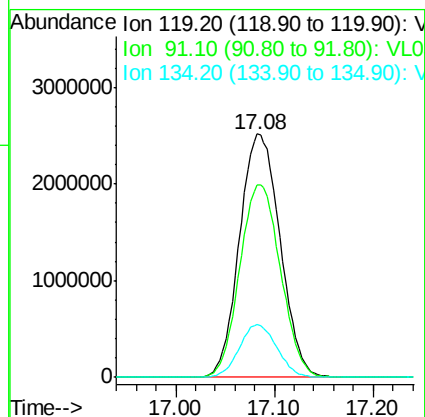
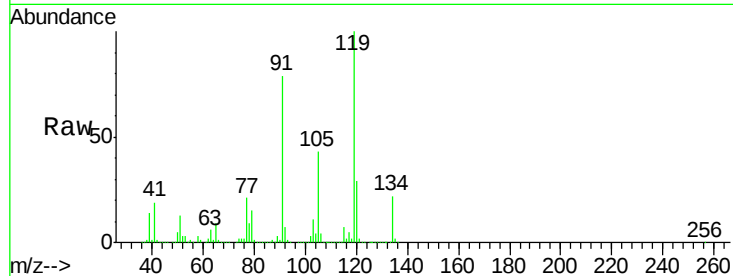




#65
 tert-Butylbenzene
 Concen: 8.37 ppbv
 RT: 17.08 min Scan# 4975
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

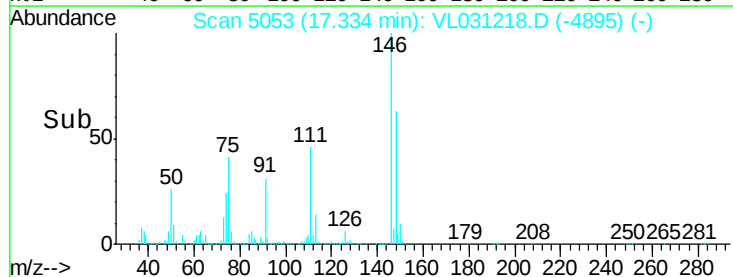
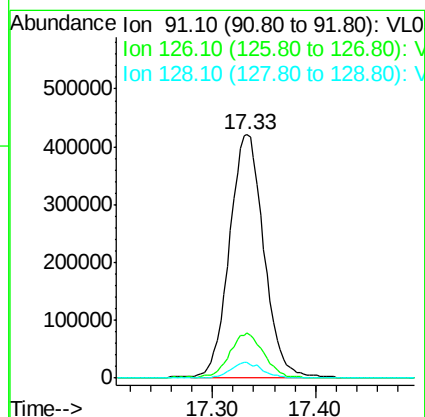
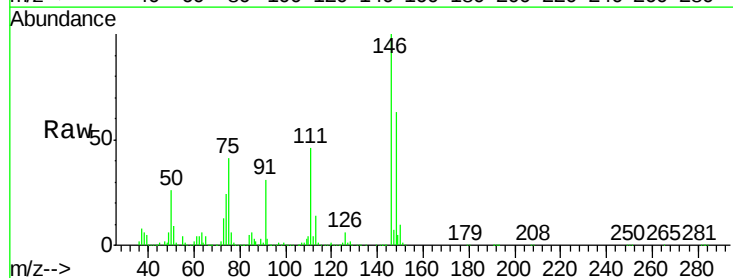
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

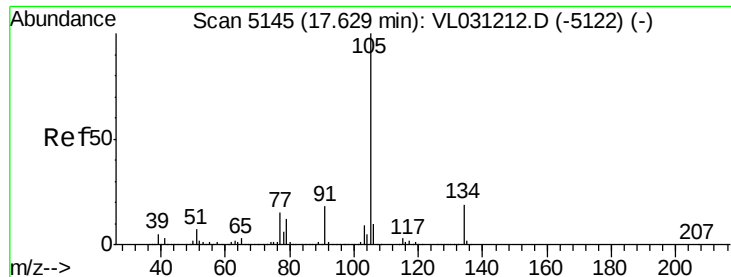
Tgt Ion:119 Resp: 7173023
 Ion Ratio Lower Upper
 119 100
 91 79.5 63.3 94.9
 134 20.1 16.1 24.1



#66
 Benzyl Chloride
 Concen: 13.21 ppbv
 RT: 17.33 min Scan# 5053
 Delta R.T. 0.01 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Tgt Ion: 91 Resp: 968583
 Ion Ratio Lower Upper
 91 100
 126 18.9 15.2 22.8
 128 6.2 4.9 7.3

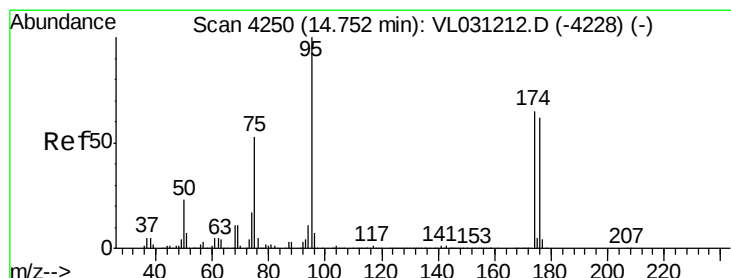
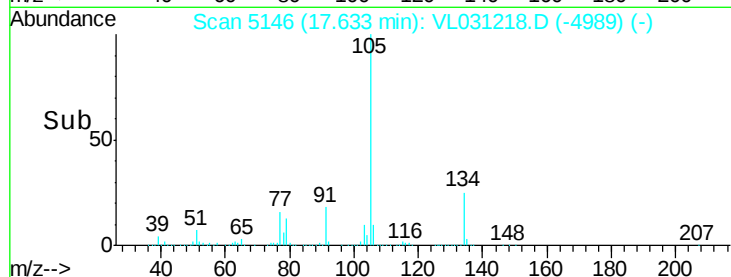
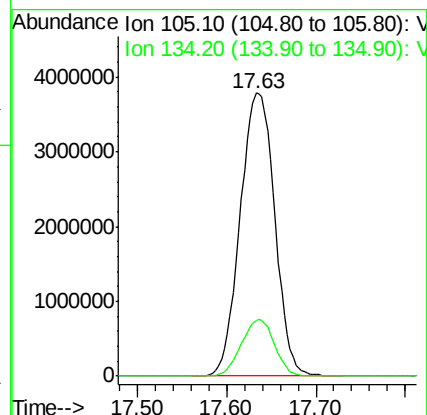
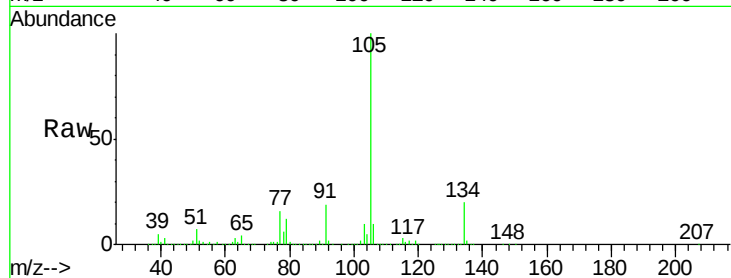




#67
 sec-Butylbenzene
 Concen: 7.87 ppbv
 RT: 17.63 min Scan# 5146
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

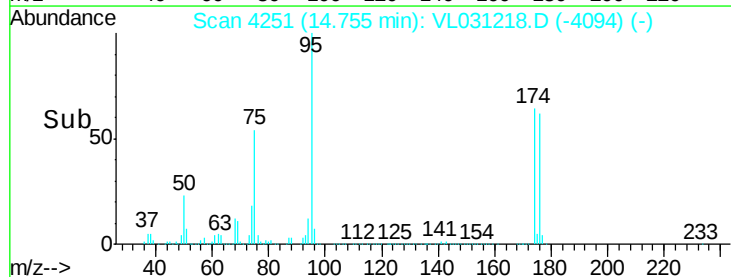
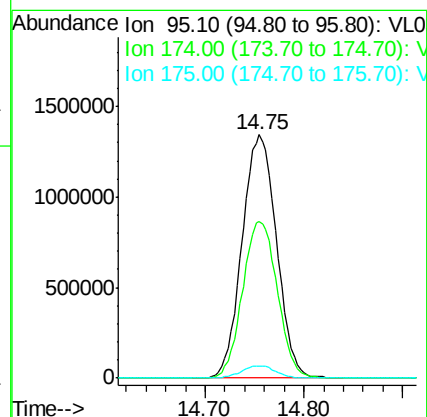
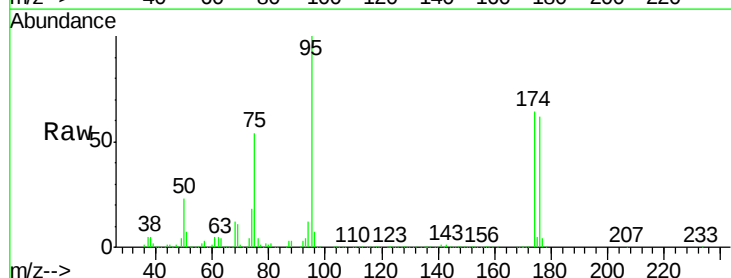
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

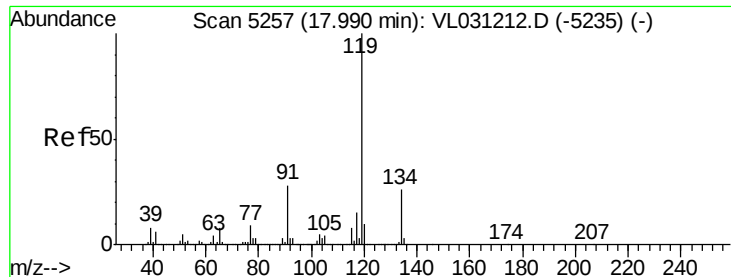
Tgt Ion: 105 Resp: 10205699
 Ion Ratio Lower Upper
 105 100
 134 19.3 15.3 22.9



#68
 1-Bromo-4-Fluorobenzene
 Concen: 7.40 ppbv
 RT: 14.75 min Scan# 4251
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Tgt Ion: 95 Resp: 3244147
 Ion Ratio Lower Upper
 95 100
 174 65.0 52.5 78.7
 175 5.1 4.1 6.1





#69

p-Isopropyltoluene

Concen: 8.50 ppbv

RT: 17.99 min Scan# 5257

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

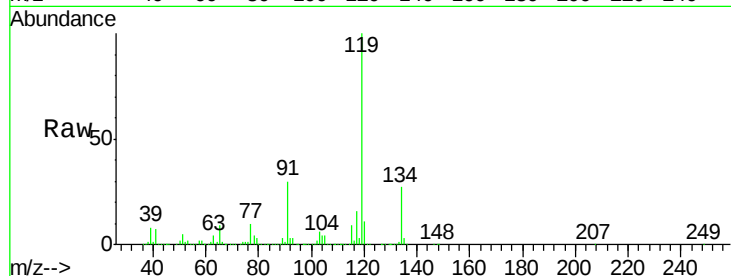
Tgt Ion:119 Resp: 8500591

Ion Ratio Lower Upper

119 100

134 26.2 20.7 31.1

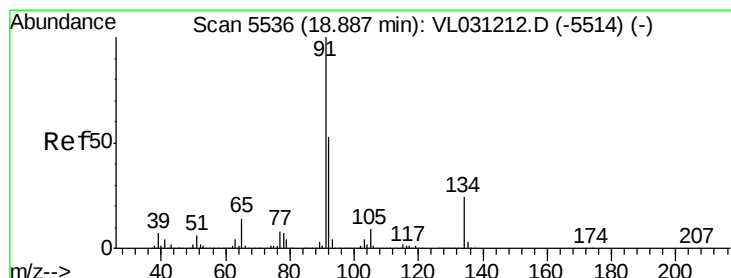
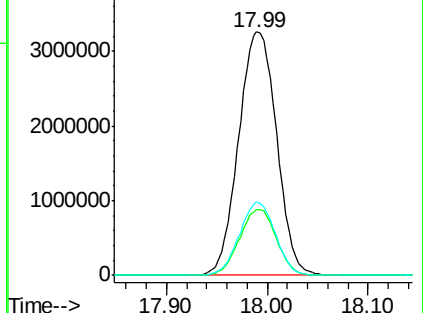
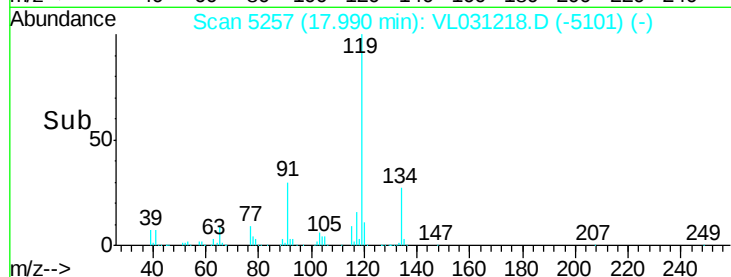
91 28.5 22.3 33.5



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 7.64 ppbv

RT: 18.89 min Scan# 5537

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

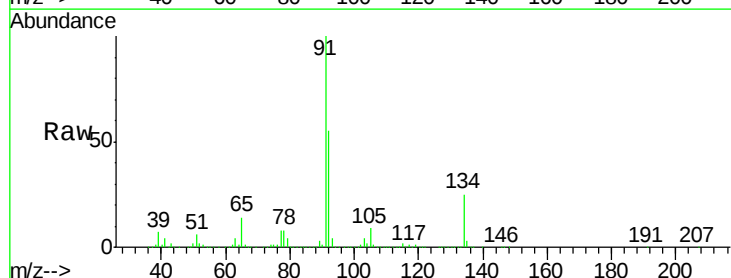
Tgt Ion: 91 Resp: 8423820

Ion Ratio Lower Upper

91 100

92 54.8 43.4 65.2

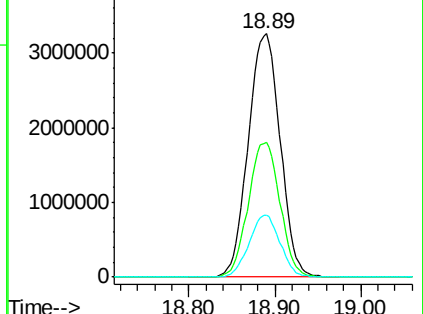
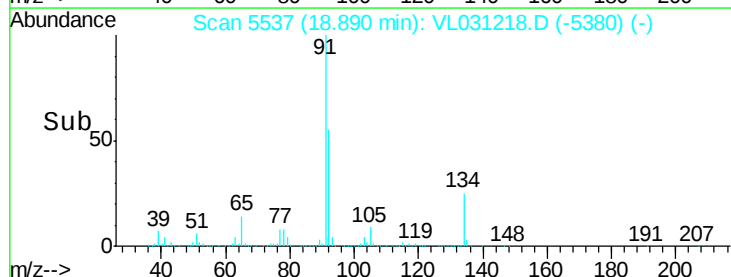
134 24.7 19.3 28.9

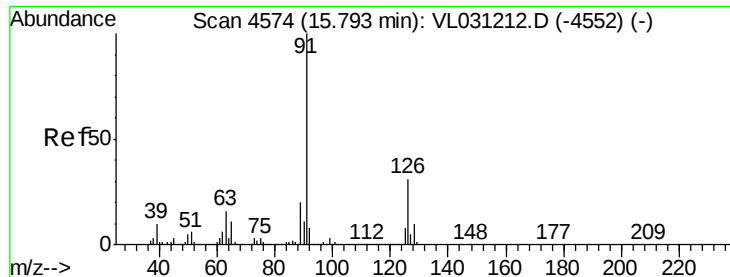


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.35 ppbv

RT: 15.80 min Scan# 4576

Delta R.T. 0.01 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

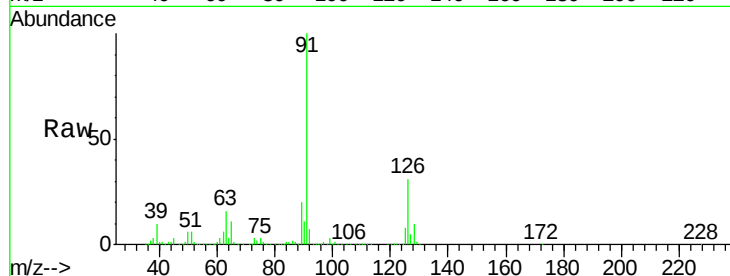
VSTDIC015

Tgt Ion: 91 Resp: 6571181

Ion Ratio Lower Upper

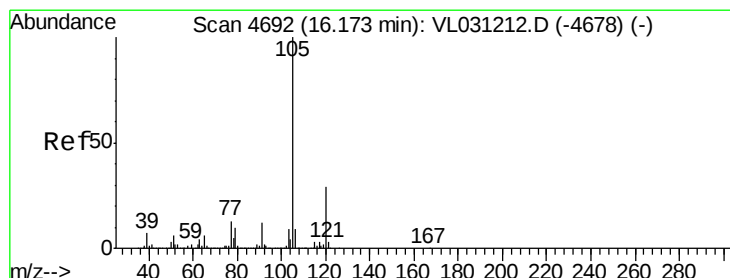
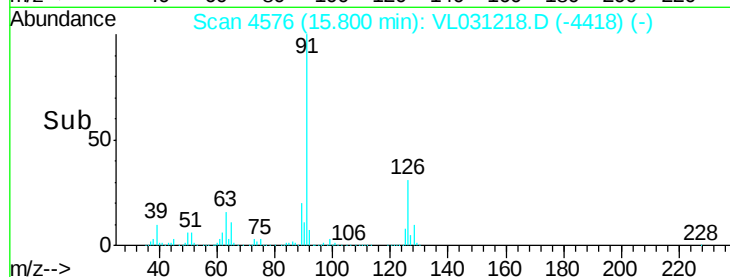
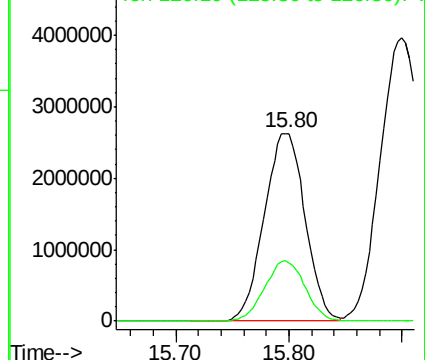
91 100

126 32.0 12.6 50.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.91 ppbv

RT: 16.18 min Scan# 4693

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Tgt Ion: 105 Resp: 7345225

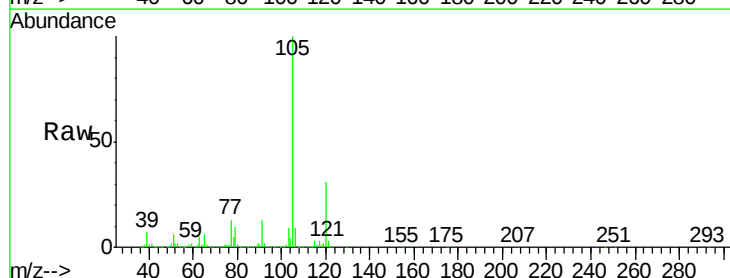
Ion Ratio Lower Upper

105 100

120 30.5 24.2 36.2

91 12.4 9.8 14.8

77 13.2 10.5 15.7

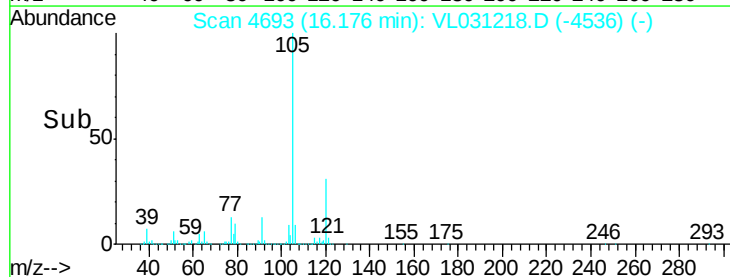
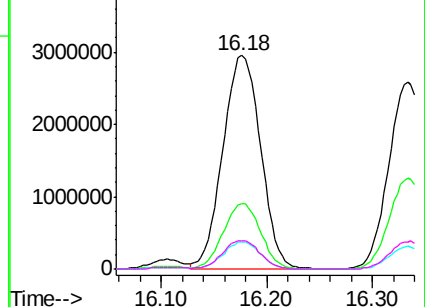


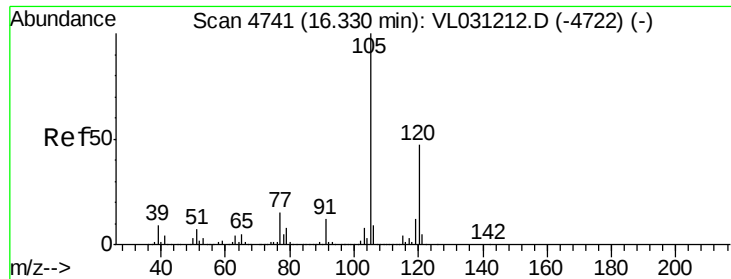
Abundance Ion 105.10 (104.80 to 105.80): V

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

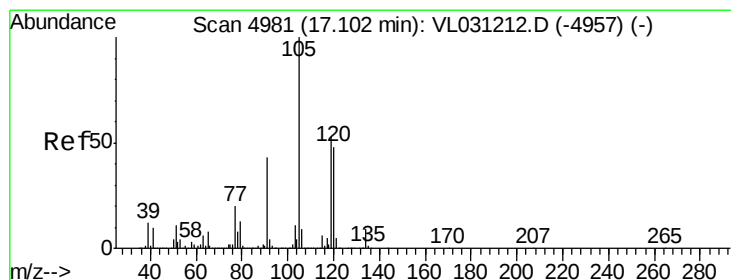
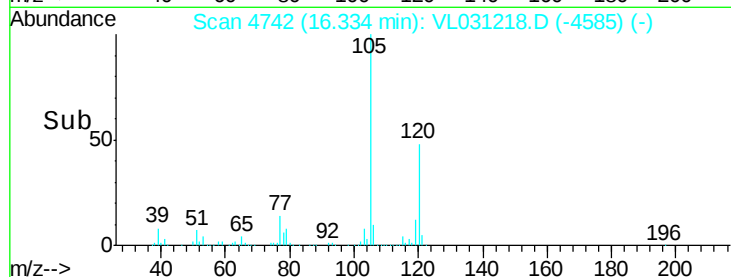
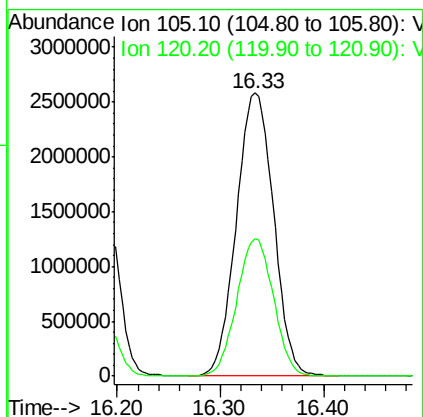
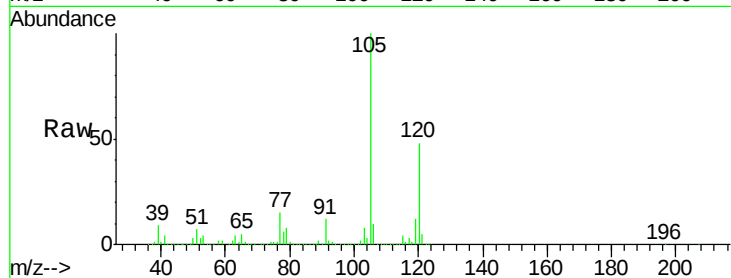




#73
 1,3,5-Trimethylbenzene
 Concen: 8.46 ppbv
 RT: 16.33 min Scan# 4742
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

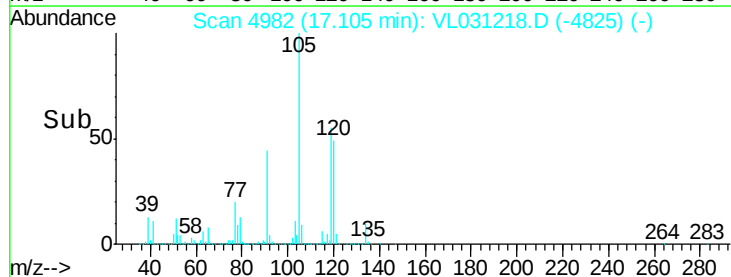
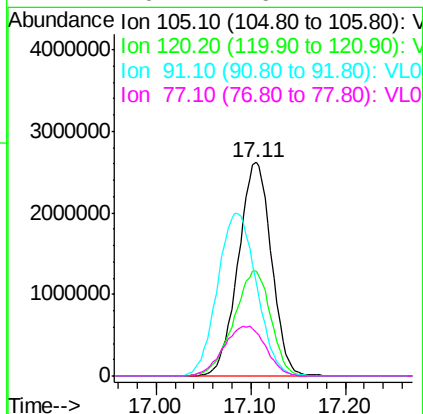
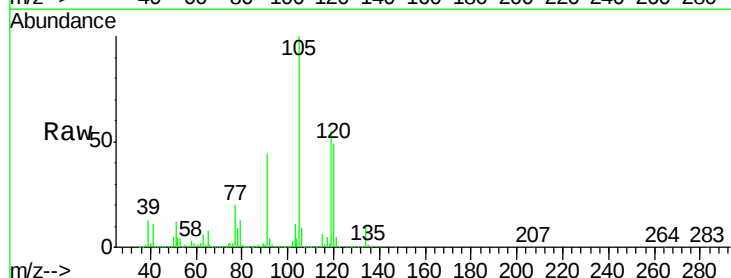
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

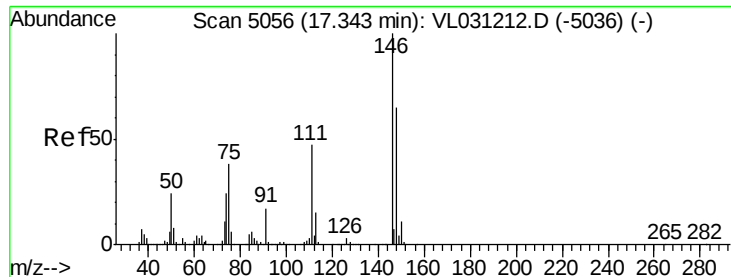
Tgt Ion:105 Resp: 6447247
 Ion Ratio Lower Upper
 105 100
 120 48.5 37.8 56.6



#74
 1,2,4-Trimethylbenzene
 Concen: 7.62 ppbv
 RT: 17.11 min Scan# 4982
 Delta R.T. 0.00 min
 Lab File: VL031218.D
 Acq: 14 Dec 2017 2:16

Tgt Ion:105 Resp: 6390583
 Ion Ratio Lower Upper
 105 100
 120 48.9 38.6 58.0
 91 43.7 34.2 51.4
 77 20.4 16.1 24.1





#75

1,3-Dichlorobenzene

Concen: 8.10 ppbv

RT: 17.34 min Scan# 5056

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

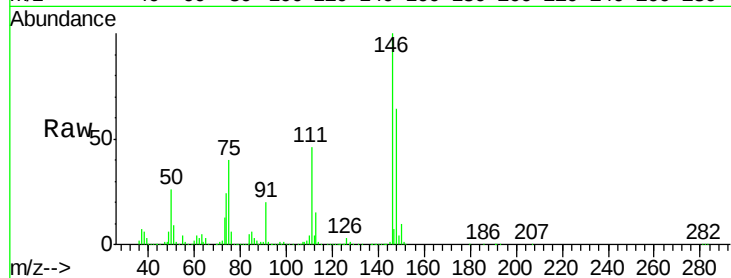
Tgt Ion:146 Resp: 4296225

Ion Ratio Lower Upper

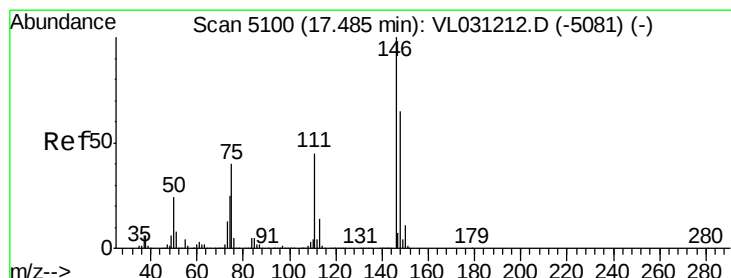
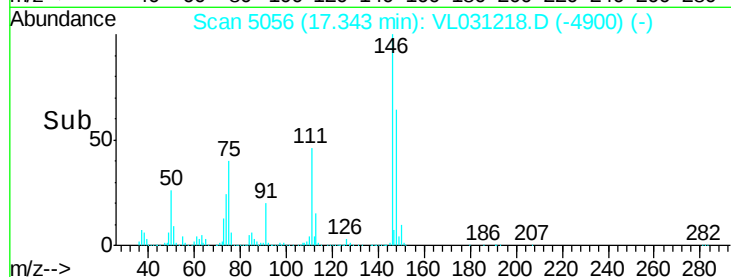
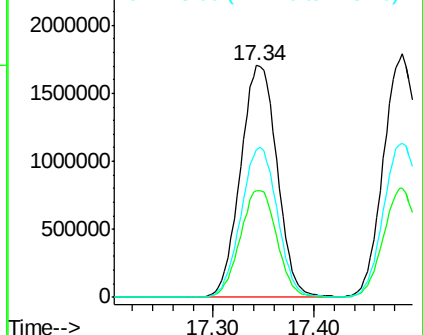
146 100

111 46.1 22.7 68.1

148 64.2 32.0 96.2



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: 8.23 ppbv

RT: 17.49 min Scan# 5101

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

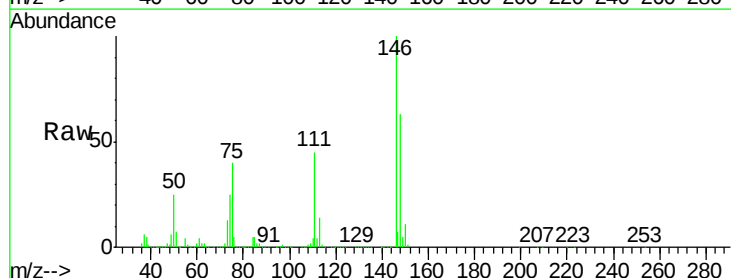
Tgt Ion:146 Resp: 4386532

Ion Ratio Lower Upper

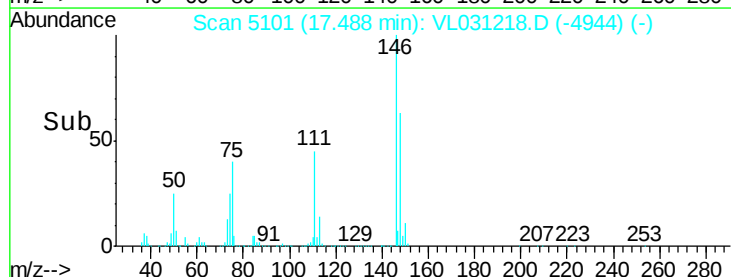
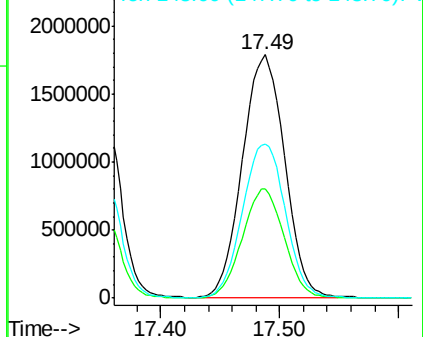
146 100

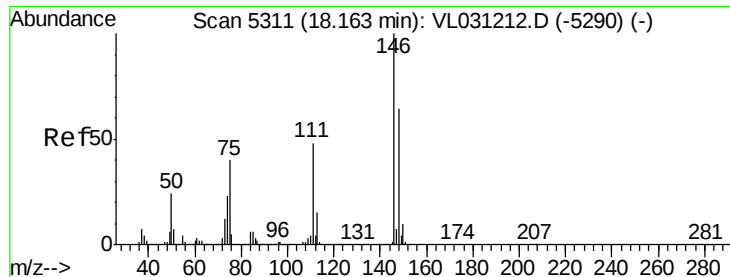
111 44.7 22.1 66.1

148 64.9 32.0 96.0



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: 8.11 ppbv

RT: 18.17 min Scan# 5312

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

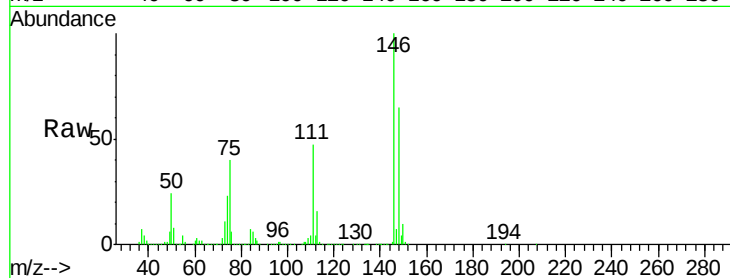
Tgt Ion:146 Resp: 4245108

Ion Ratio Lower Upper

146 100

111 47.2 23.3 69.8

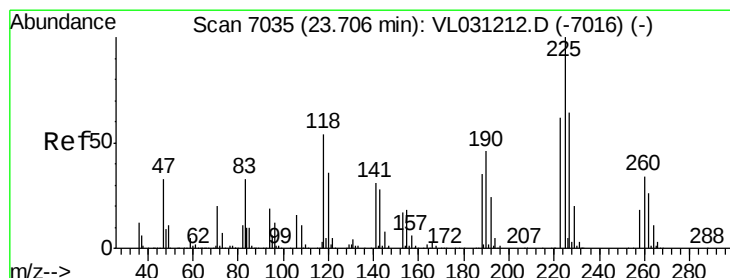
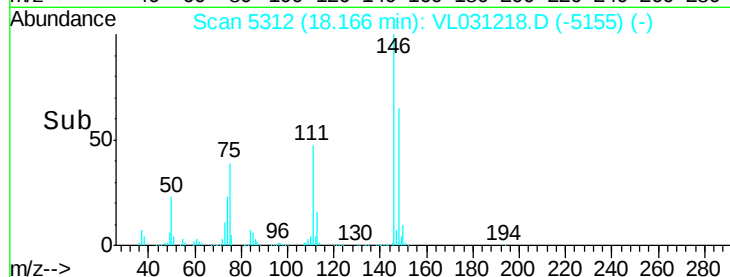
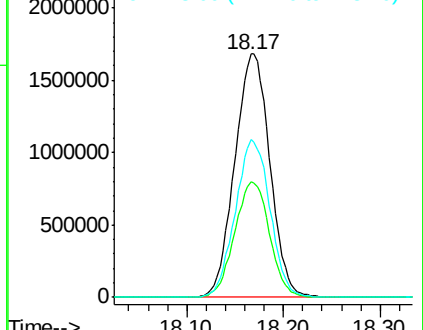
148 64.2 31.9 95.7



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: 9.94 ppbv

RT: 23.71 min Scan# 7035

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

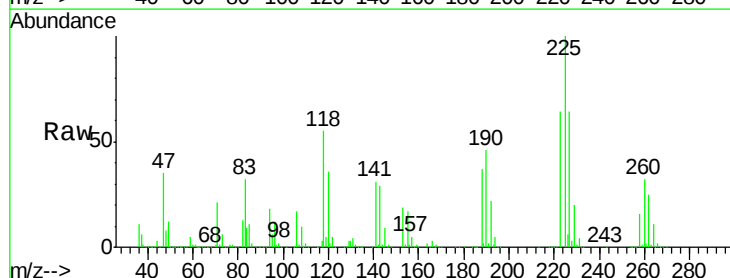
Tgt Ion:225 Resp: 994051

Ion Ratio Lower Upper

225 100

223 63.0 50.4 75.6

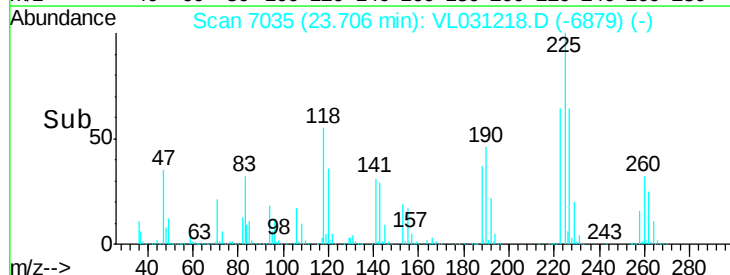
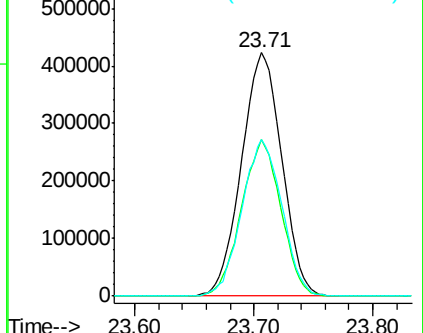
227 63.9 51.3 76.9

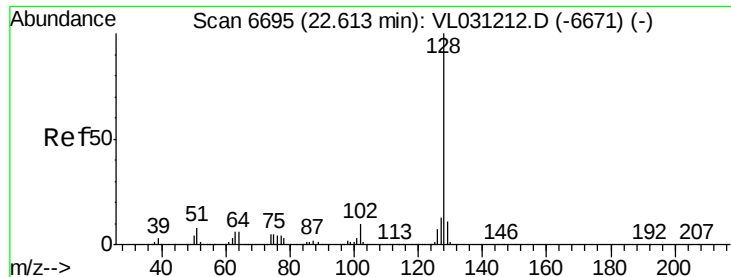


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.12 ppbv

RT: 22.62 min Scan# 6696

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

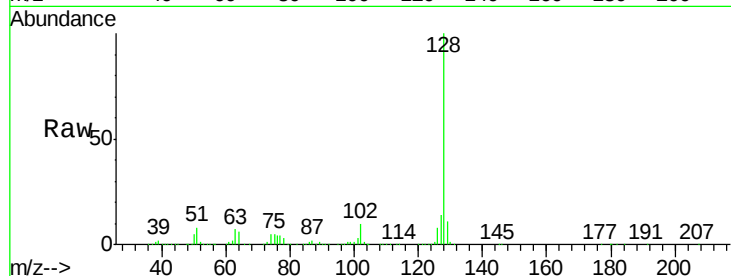
Tgt Ion:128 Resp: 5752503

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.2

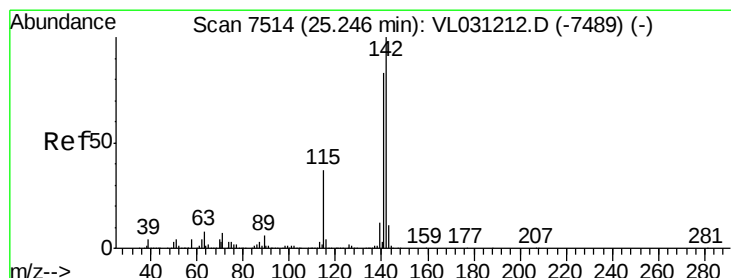
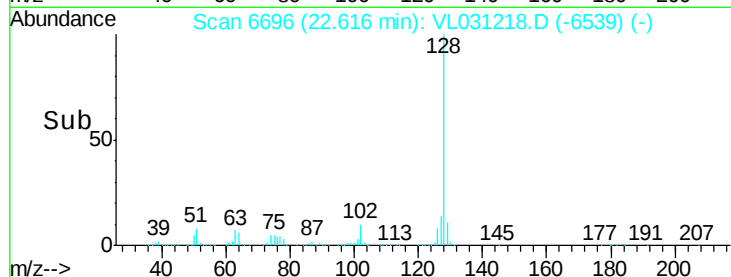
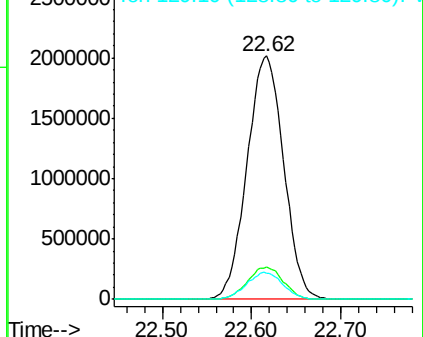
129 10.7 8.9 13.3



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



#80

Naphthalene, 2-methyl-

Concen: 16.15 ppbv

RT: 25.25 min Scan# 7514

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

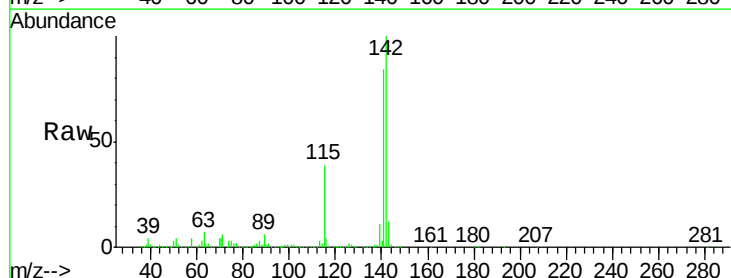
Tgt Ion:142 Resp: 2701042

Ion Ratio Lower Upper

142 100

141 83.3 66.8 100.2

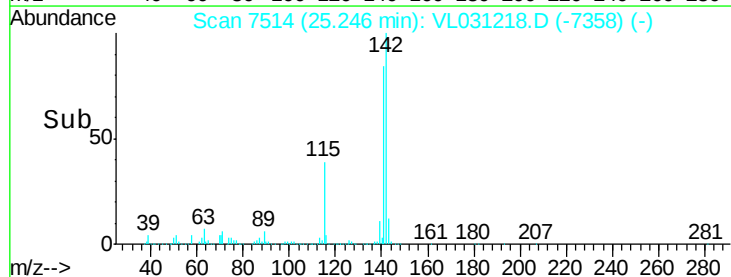
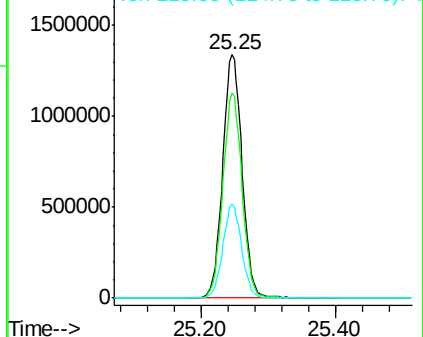
115 37.7 29.7 44.5

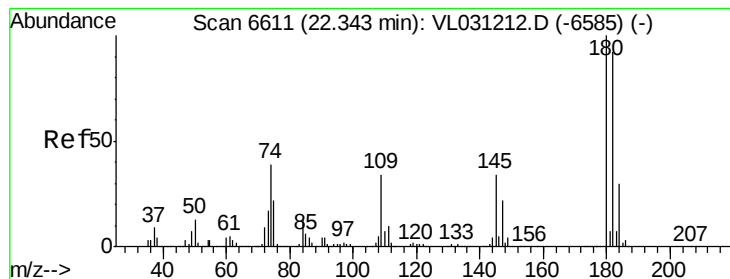


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 9.29 ppbv

RT: 22.35 min Scan# 6612

Delta R.T. 0.00 min

Lab File: VL031218.D

Acq: 14 Dec 2017 2:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

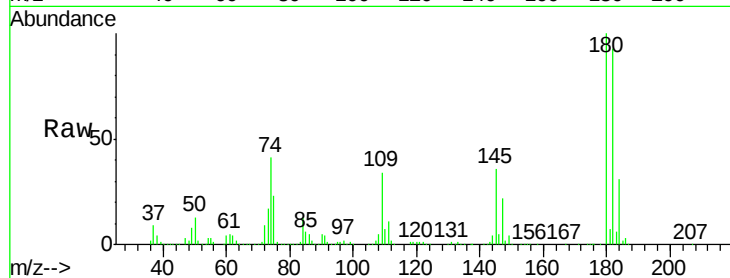
Tgt Ion:180 Resp: 2632786

Ion Ratio Lower Upper

180 100

182 94.6 75.9 113.9

184 30.1 24.2 36.2



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

