

Data File : VL031213.D

Acq On : 13 Dec 2017 23:07

Operator : SY/AP

Sample : VSTDICC002

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Dec 14 03:41:49 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	1573679	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3753144	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3805142	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2681505	9.12	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.18	85	252324	1.57	ppbv	99
3) Chlorodifluoromethane	3.11	51	386416	1.79	ppbv	100
4) Chloromethane	3.27	50	208303	2.58	ppbv	98
5) Vinyl Chloride	3.40	62	202933	2.30	ppbv	95
6) Bromomethane	3.63	94	126647	2.37	ppbv	95
7) Chloroethane	3.71	64	81222	2.59	ppbv	95
8) Dichlorotetrafluoroethane	3.32	85	374433	2.00	ppbv	98
9) Propene	3.13	41	190094	2.13	ppbv	99
10) Heptane	8.41	43	559690	2.11	ppbv	99
11) Trichlorofluoromethane	4.13	101	478847	2.54	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.68	101	308262	2.75	ppbv	99
13) Ethanol	3.77	45	56044	3.28	ppbv	97
14) Bromoethene	3.91	108	145184	2.52	ppbv	98
15) Acetone	4.03	43	447352	2.83	ppbv	99
16) 1,3-Butadiene	3.47	39	199286	2.68	ppbv	97
17) tert-Butyl alcohol	4.49	59	256036	3.34	ppbv	98
18) 1,1-Dichloroethene	4.48	96	148250	2.72	ppbv	92
19) Isopropyl Alcohol	4.15	45	287463	3.12	ppbv	92
20) Methylene Chloride	4.54	84	152631	2.78	ppbv	99
21) Allyl Chloride	4.61	41	262857	3.34	ppbv	98
22) trans-1,2-Dichloroethene	5.10	96	167267	2.45	ppbv	98
23) Vinyl Acetate	5.29	43	628072	2.23	ppbv	99
24) 1,1-Dichloroethane	5.23	63	488022	2.01	ppbv	100
25) Ethyl Acetate	5.92	43	883911	2.25	ppbv	99
26) Hexane	5.93	57	413595	2.17	ppbv	99
27) Carbon Disulfide	4.76	76	408799	3.05	ppbv #	91
28) Methyl tert-Butyl Ether	5.26	73	536507	2.54	ppbv	99
29) Chloroform	5.99	83	563969	2.06	ppbv	99
30) Cyclohexane	7.40	84	333256	2.18	ppbv	88
31) cis-1,2-Dichloroethene	5.78	61	363594	1.99	ppbv	99
32) 1,1,1-Trichloroethane	6.77	97	565467	2.48	ppbv	100
34) 2-Butanone	5.47	43	583902	1.90	ppbv	100
35) Carbon Tetrachloride	7.29	117	555995	2.11	ppbv	98
36) Benzene	7.16	78	829043	1.93	ppbv	98
37) 1,2-Dichloroethane	6.56	62	450528	1.79	ppbv	99
38) Trichloroethene	8.12	130	325974	1.99	ppbv	93
39) 1,2-Dichloropropane	7.90	63	300765	1.83	ppbv	99
40) 1,4-Dioxane	8.13	88	105404	1.61	ppbv #	87
41) Tetrahydrofuran	6.31	42	332580	2.06	ppbv	100
42) Bromodichloromethane	8.08	83	580175	1.93	ppbv	99
43) Methyl Methacrylate	8.30	69	300255	2.00	ppbv	99

Data File : VL031213.D

Acq On : 13 Dec 2017 23:07

Operator : SY/AP

Sample : VSTDIC002

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Quant Time: Dec 14 03:41:49 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

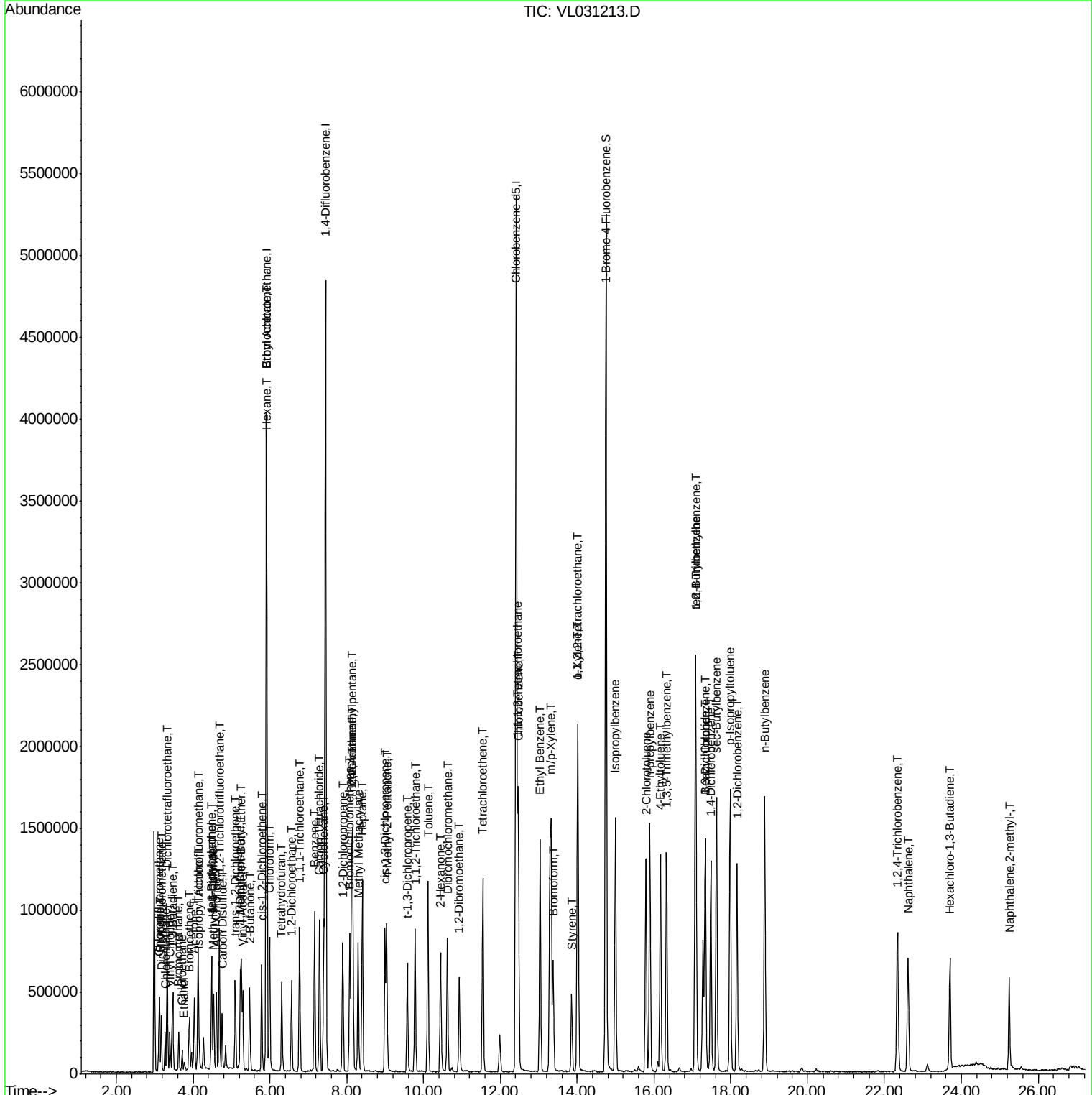
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	1381756	1.92	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	401680	2.16	ppbv	98
46) cis-1,3-Dichloropropene	9.00	75	523767	2.12	ppbv	95
47) 1,1,2-Trichloroethane	9.78	97	322837	1.85	ppbv	97
48) Dibromochloromethane	10.62	129	513999	2.19	ppbv	99
49) Bromoform	13.37	173	392165	2.21	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	738643	1.90	ppbv	99
51) 2-Hexanone	10.44	43	690788	1.87	ppbv #	100
52) Tetrachloroethene	11.54	164	307068	2.01	ppbv	97
53) Toluene	10.12	91	973314	2.00	ppbv	99
54) 1,2-Dibromoethane	10.93	107	490805	1.98	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.45	131	370749	2.38	ppbv #	1
57) Chlorobenzene	12.47	112	761583	2.05	ppbv	99
58) Ethyl Benzene	13.03	91	1335036	2.05	ppbv	100
59) m/p-Xylene	13.32	91	968948	1.76	ppbv #	13
60) o-Xylene	14.02	91	1093558	2.00	ppbv	100
61) Styrene	13.85	104	305564	2.22	ppbv	99
62) Isopropylbenzene	15.00	105	1426027	2.18	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	699025	1.64	ppbv	100
64) n-propylbenzene	15.89	120	380802	2.13	ppbv	96
65) tert-Butylbenzene	17.08	119	1283372	2.23	ppbv	98
66) Benzyl Chloride	17.32	91	143485	2.92	ppbv	93
67) sec-Butylbenzene	17.63	105	1744871	2.01	ppbv	99
69) p-Isopropyltoluene	17.98	119	1475270	2.20	ppbv	99
70) n-Butylbenzene	18.88	91	1425409	1.93	ppbv	99
71) 2-Chlorotoluene	15.79	91	1053590	2.00	ppbv	100
72) 4-Ethyltoluene	16.17	105	1187181	2.15	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	1051493	2.06	ppbv	96
74) 1,2,4-Trimethylbenzene	17.10	105	1117556	1.99	ppbv	98
75) 1,3-Dichlorobenzene	17.34	146	724853	2.04	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	715903	2.00	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	698503	1.99	ppbv	99
78) Hexachloro-1,3-Butadiene	23.70	225	165082	2.46	ppbv	99
79) Naphthalene	22.61	128	925328	2.43	ppbv	99
80) Naphthalene,2-methyl-	25.25	142	339042	3.02	ppbv	99
81) 1,2,4-Trichlorobenzene	22.34	180	435481	2.29	ppbv	99

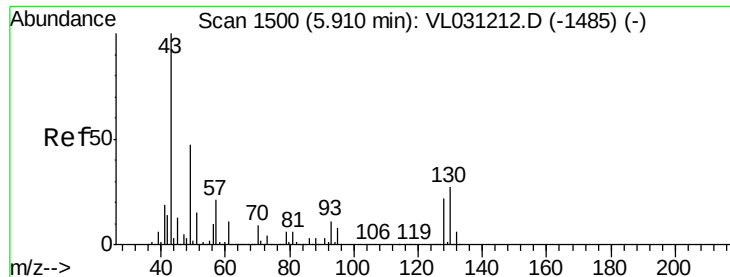
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC002

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

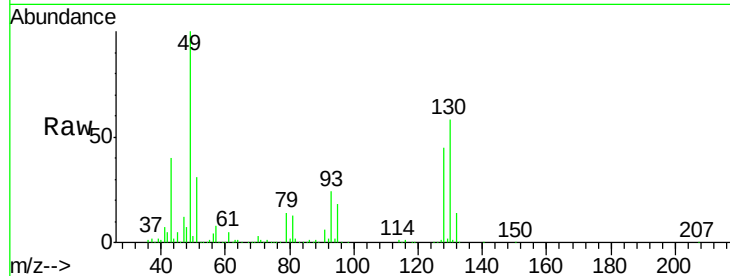
Tgt Ion: 49 Resp: 1573679

Ion Ratio Lower Upper

49 100

128 47.1 23.2 69.5

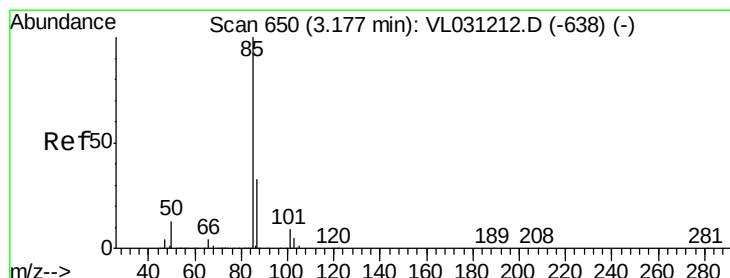
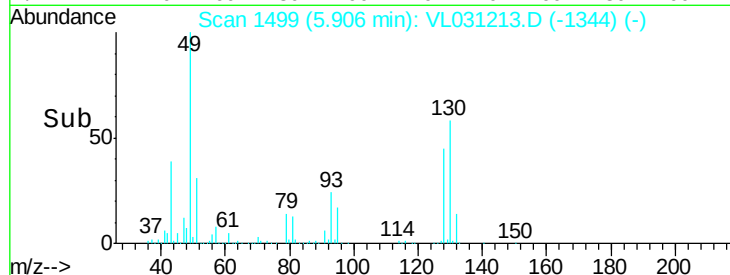
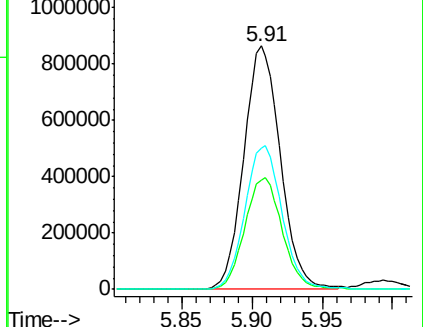
130 60.5 29.6 88.8



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



#2

Dichlorodifluoromethane

Concen: 1.57 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031213.D

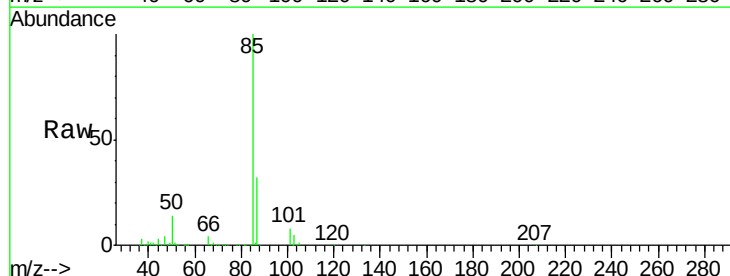
Acq: 13 Dec 2017 23:07

Tgt Ion: 85 Resp: 252324

Ion Ratio Lower Upper

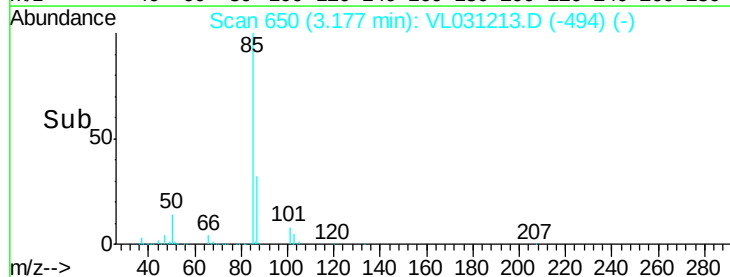
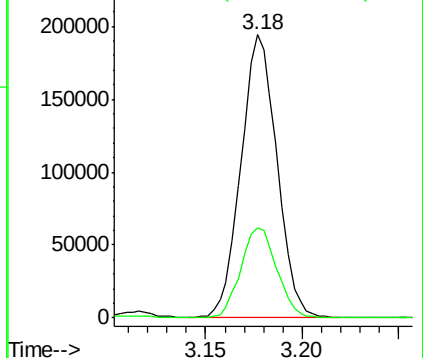
85 100

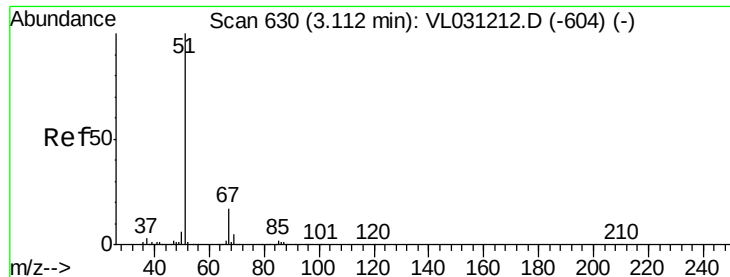
87 31.9 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.79 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

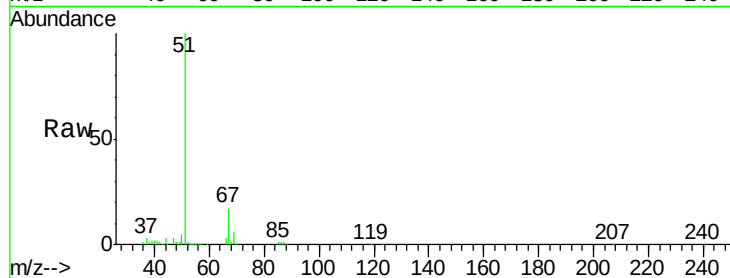
VSTDIC002

Tgt Ion: 51 Resp: 386416

Ion Ratio Lower Upper

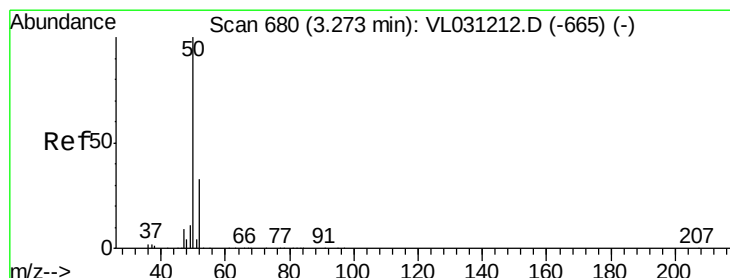
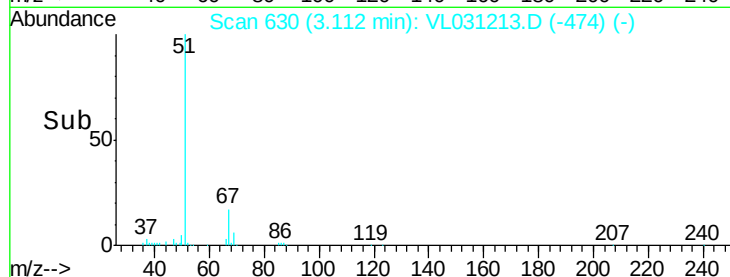
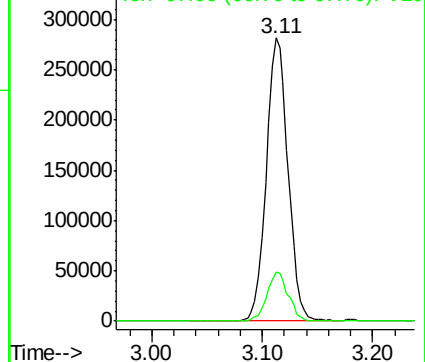
51 100

67 17.3 13.8 20.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.58 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031213.D

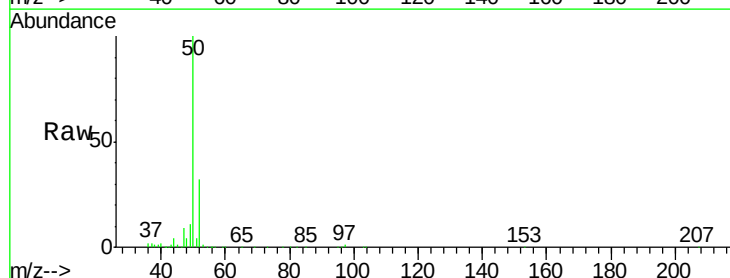
Acq: 13 Dec 2017 23:07

Tgt Ion: 50 Resp: 208303

Ion Ratio Lower Upper

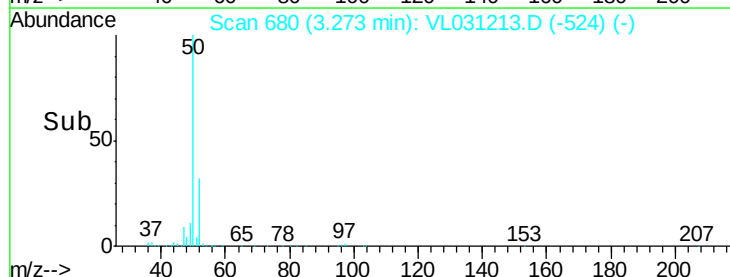
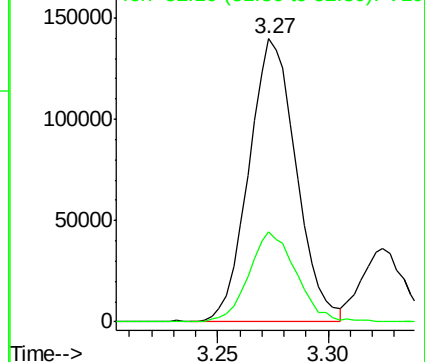
50 100

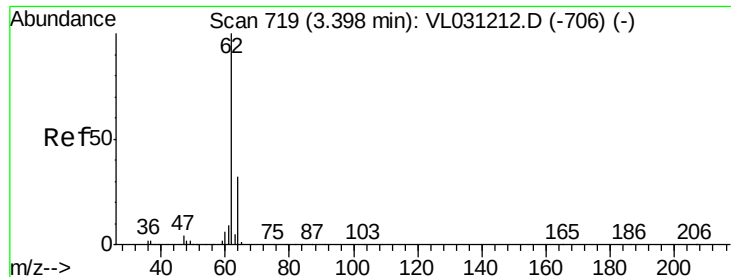
52 31.7 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 2.30 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

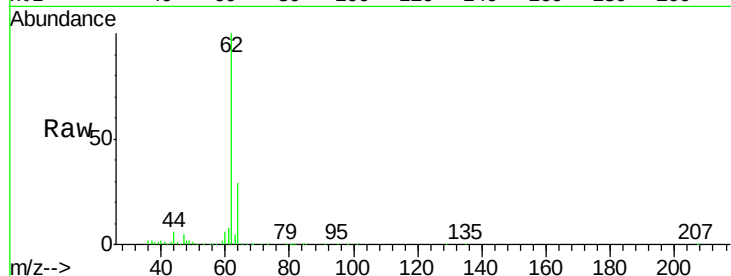
VSTDIC002

Tgt Ion: 62 Resp: 202933

Ion Ratio Lower Upper

62 100

64 29.5 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.40

150000

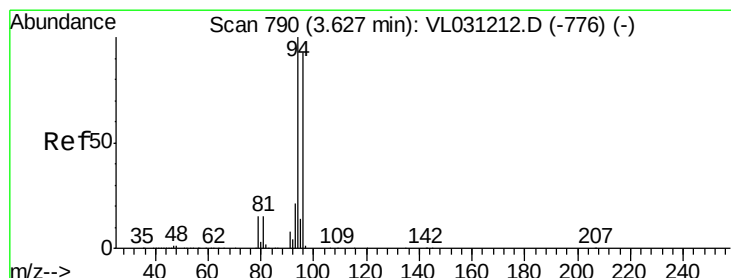
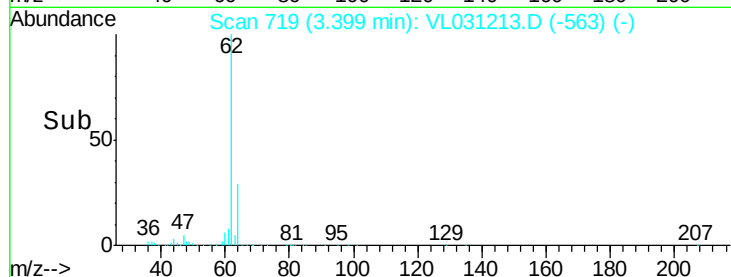
100000

50000

0

3.35 3.40 3.45

Time-->



#6

Bromomethane

Concen: 2.37 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031213.D

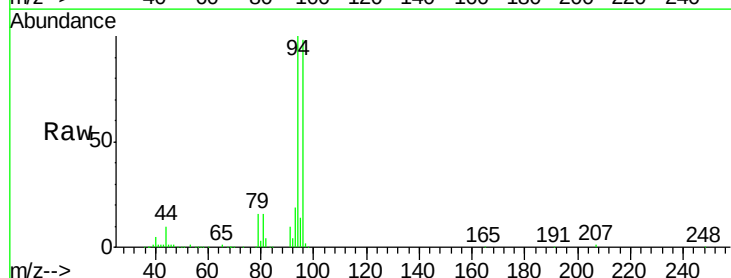
Acq: 13 Dec 2017 23:07

Tgt Ion: 94 Resp: 126647

Ion Ratio Lower Upper

94 100

96 97.6 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.63

80000

60000

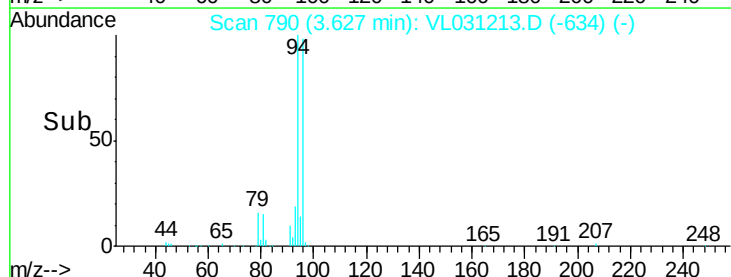
40000

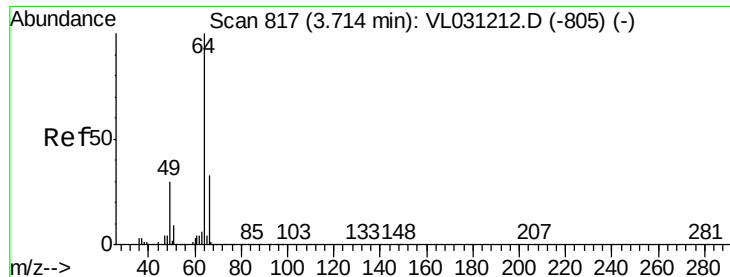
20000

0

3.55 3.60 3.65 3.70

Time-->





#7

Chloroethane

Concen: 2.59 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

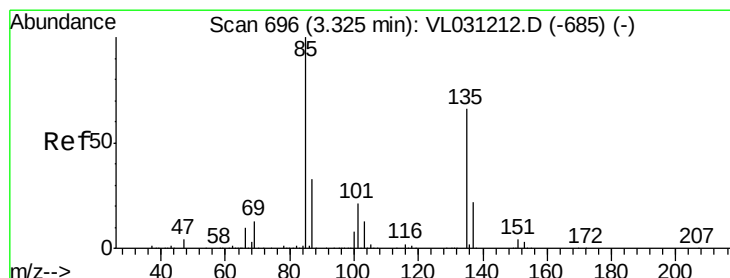
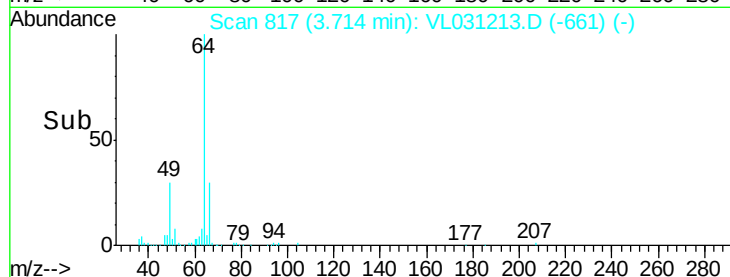
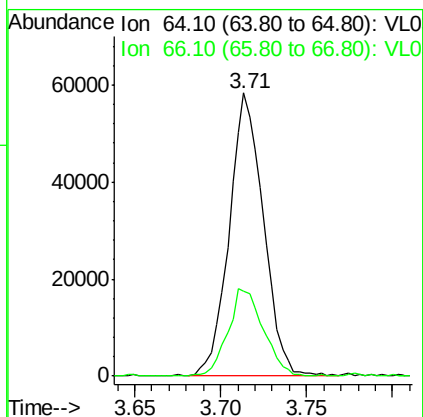
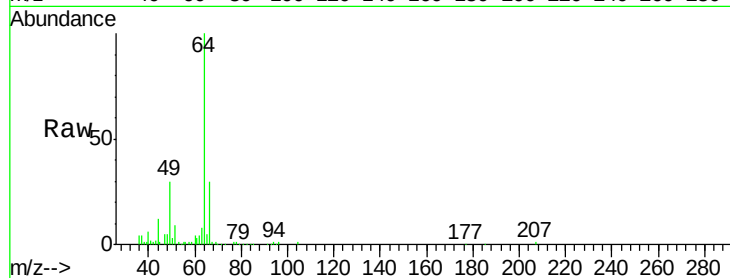
VSTDIC002

Tgt Ion: 64 Resp: 81222

Ion Ratio Lower Upper

64 100

66 30.1 26.2 39.2



#8

Dichlorotetrafluoroethane

Concen: 2.00 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031213.D

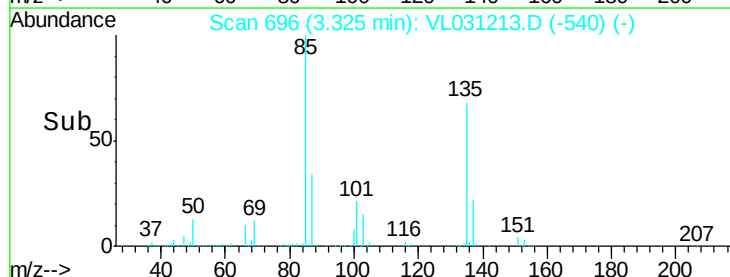
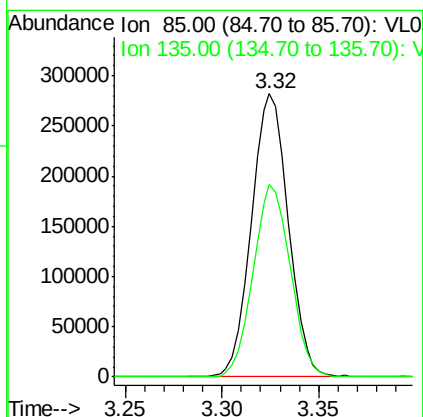
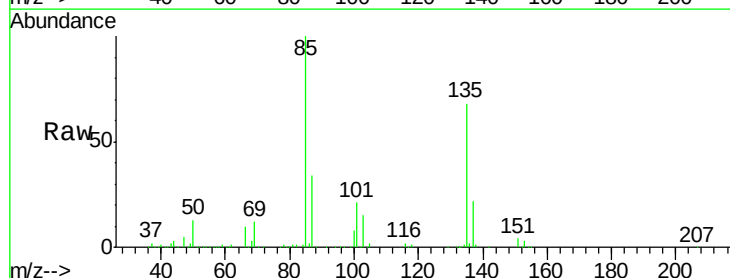
Acq: 13 Dec 2017 23:07

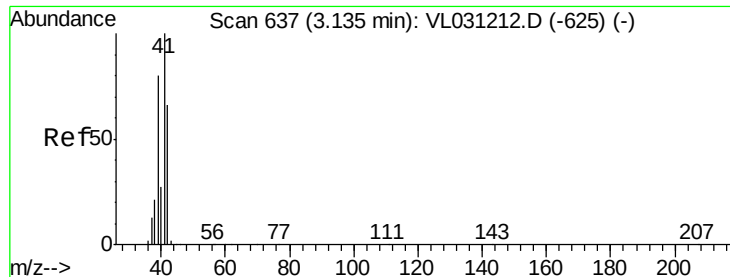
Tgt Ion: 85 Resp: 374433

Ion Ratio Lower Upper

85 100

135 68.7 54.0 81.0





#9

Propene

Concen: 2.13 ppbv

RT: 3.13 min Scan# 637

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

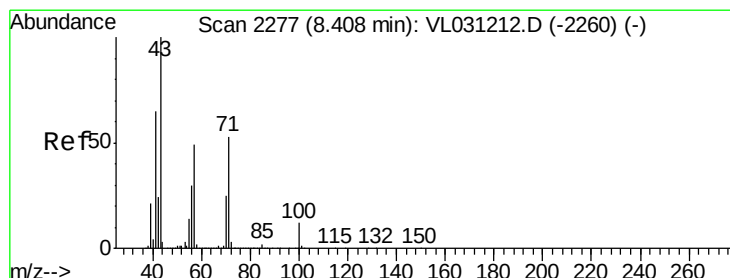
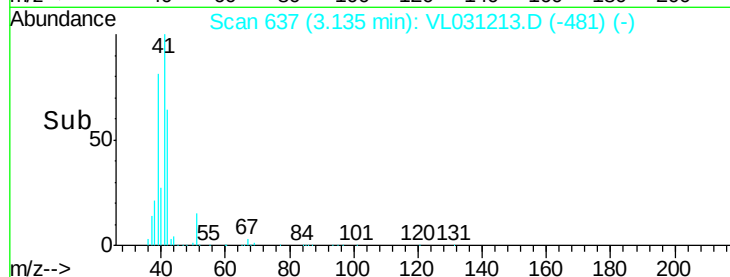
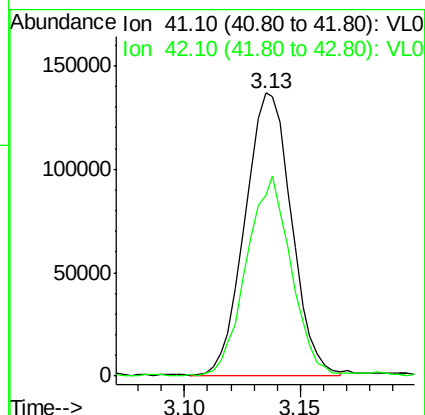
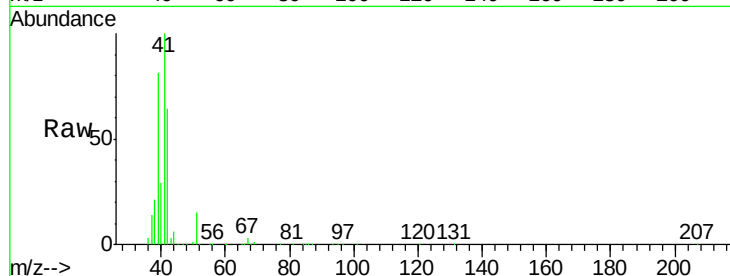
VSTDIC002

Tgt Ion: 41 Resp: 190094

Ion Ratio Lower Upper

41 100

42 68.6 54.3 81.5



#10

Heptane

Concen: 2.11 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031213.D

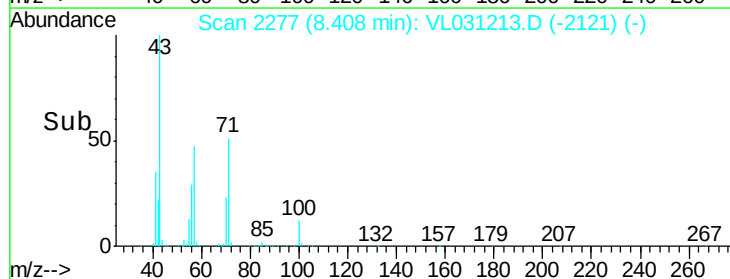
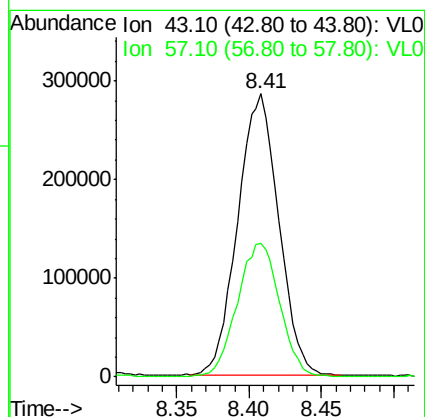
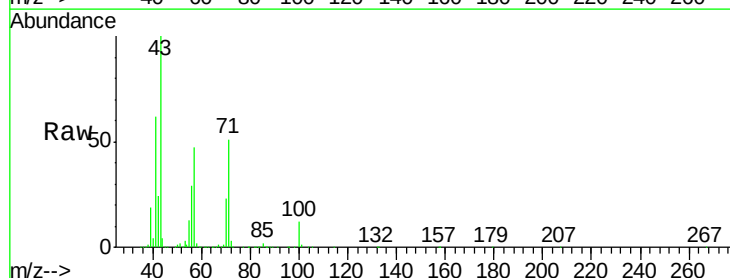
Acq: 13 Dec 2017 23:07

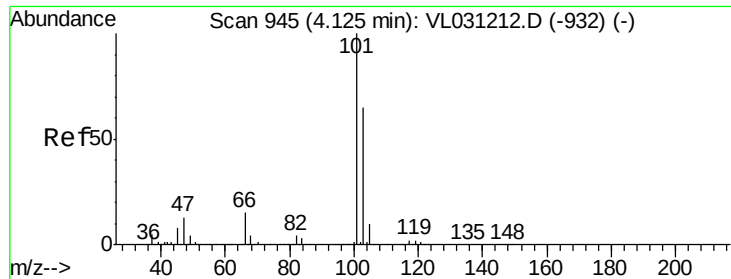
Tgt Ion: 43 Resp: 559690

Ion Ratio Lower Upper

43 100

57 49.2 39.8 59.8





#11

Trichlorofluoromethane

Concen: 2.54 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

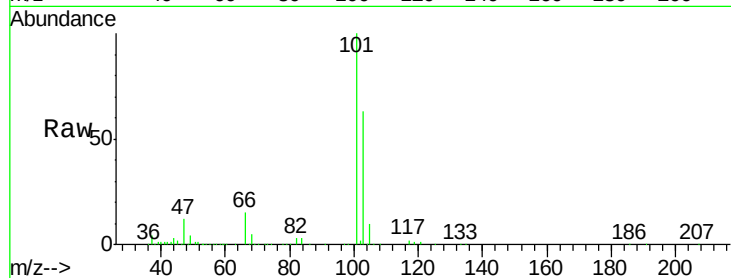
VSTDIC002

Tgt Ion:101 Resp: 478847

Ion Ratio Lower Upper

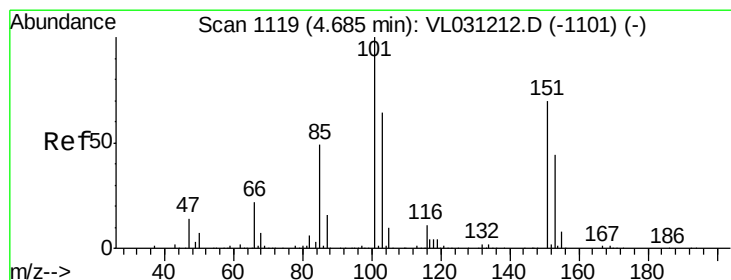
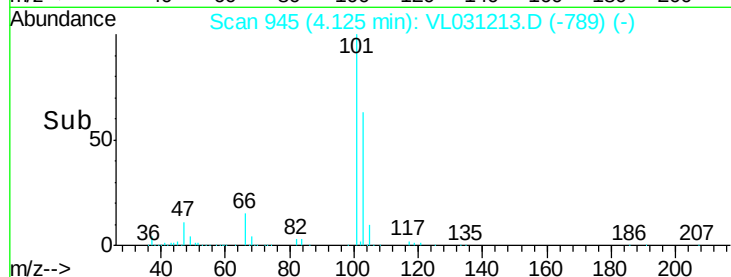
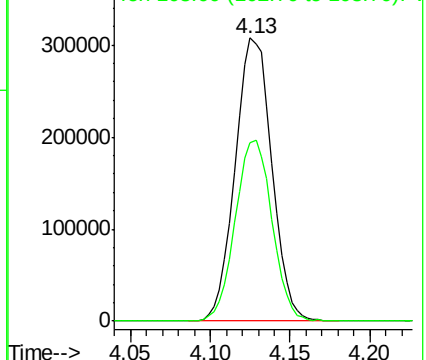
101 100

103 63.1 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.75 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031213.D

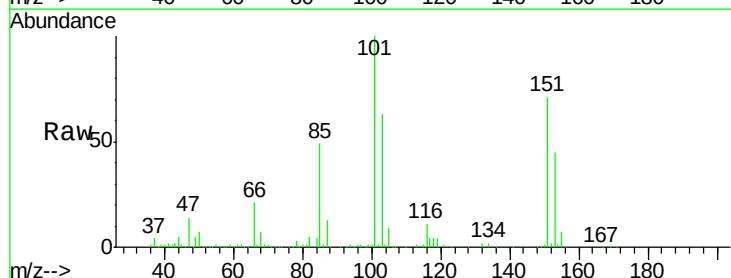
Acq: 13 Dec 2017 23:07

Tgt Ion:101 Resp: 308262

Ion Ratio Lower Upper

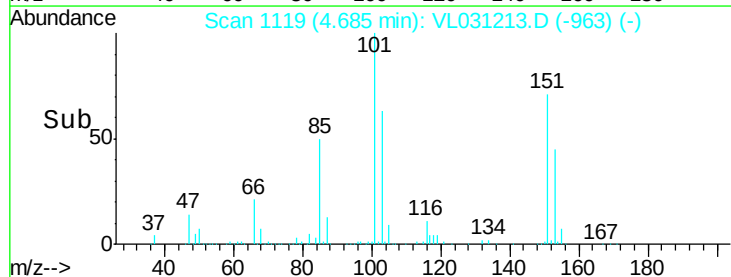
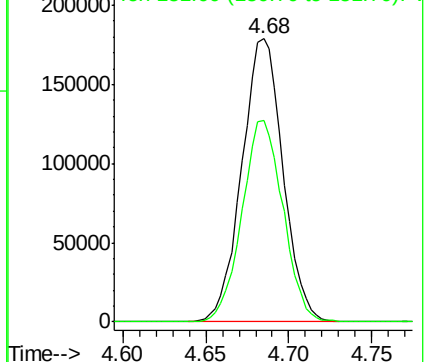
101 100

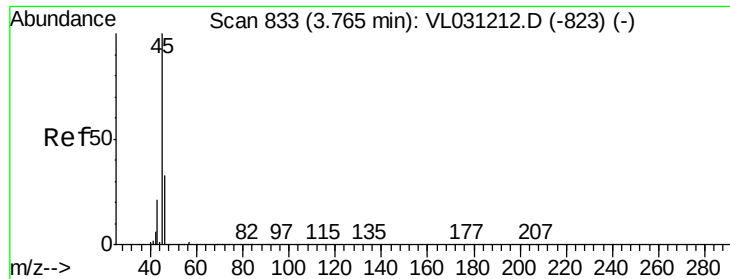
151 71.3 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 3.28 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

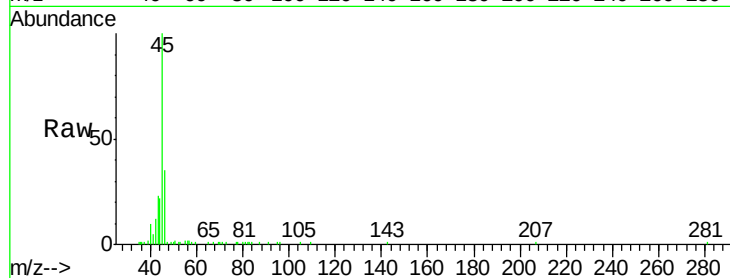
VSTDIC002

Tgt Ion: 45 Resp: 56044

Ion Ratio Lower Upper

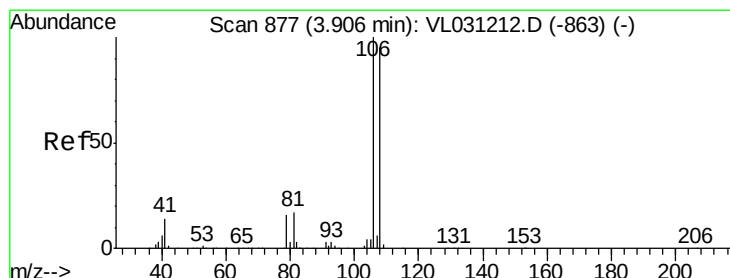
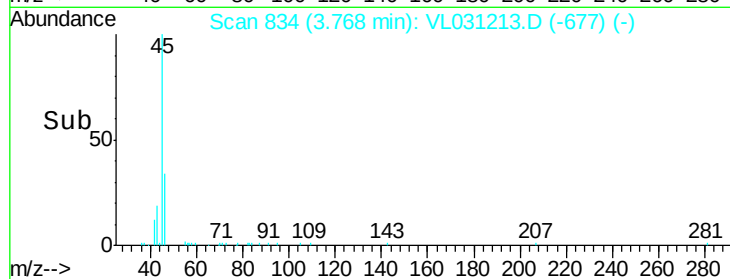
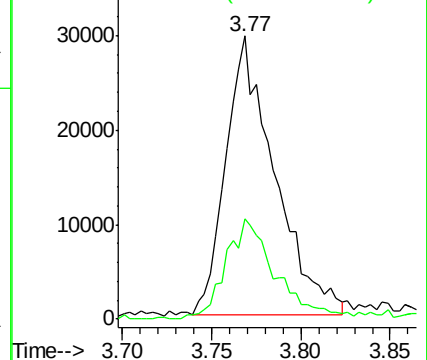
45 100

46 38.4 14.6 58.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 2.52 ppbv

RT: 3.91 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

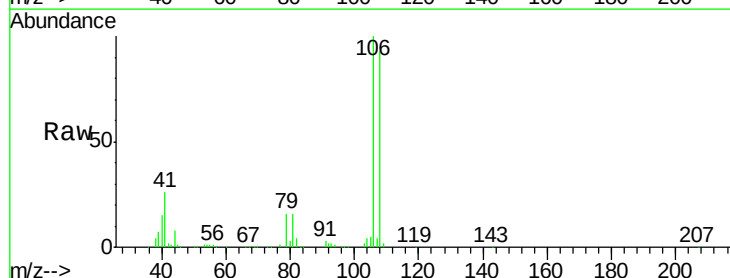
Tgt Ion: 108 Resp: 145184

Ion Ratio Lower Upper

108 100

106 106.9 86.5 129.7

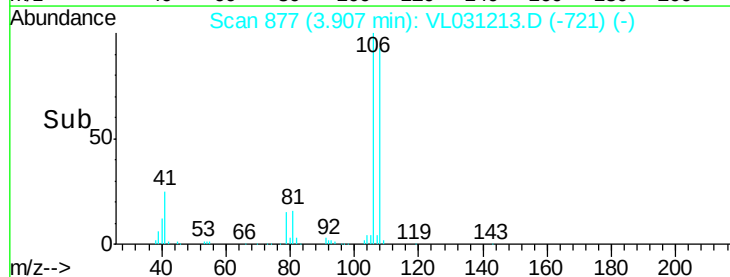
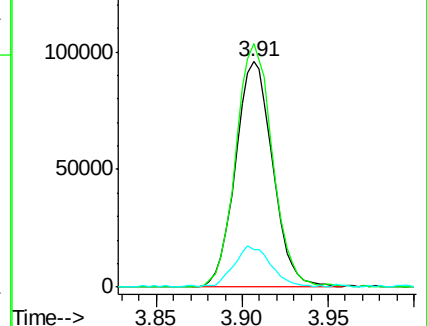
79 19.4 14.2 21.4

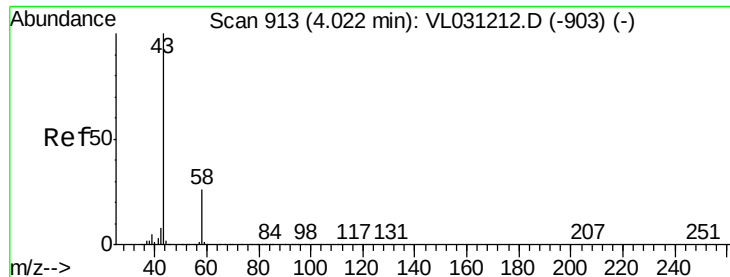


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 2.83 ppbv

RT: 4.03 min Scan# 914

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

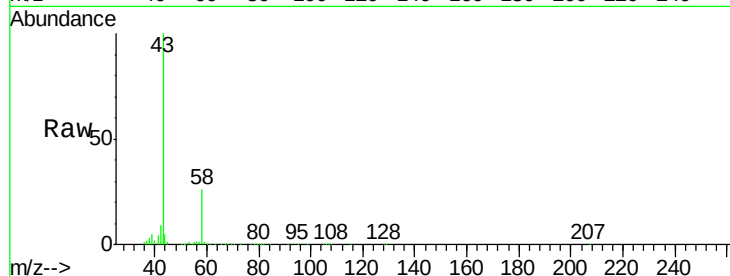
VSTDIC002

Tgt Ion: 43 Resp: 447352

Ion Ratio Lower Upper

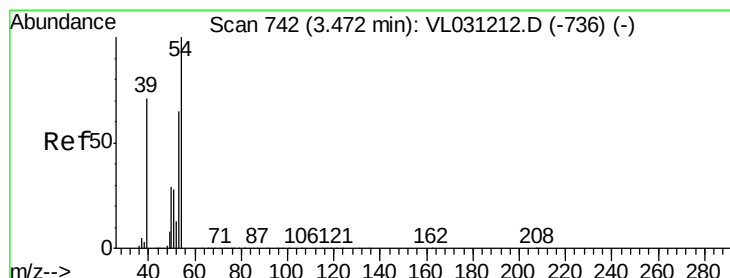
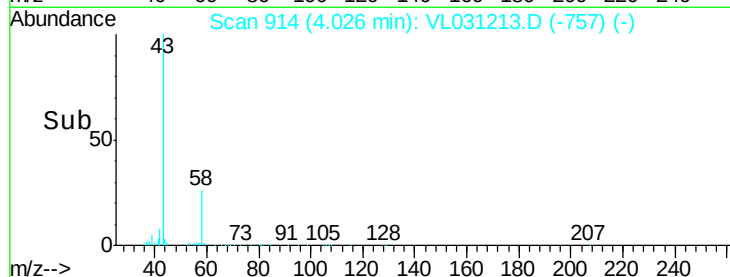
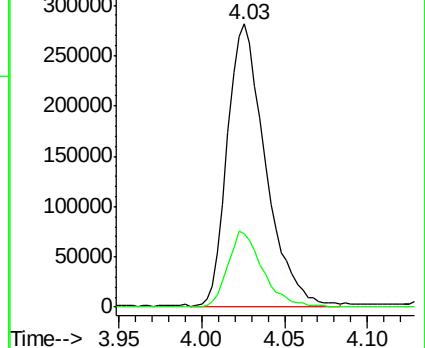
43 100

58 24.8 20.3 30.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 2.68 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031213.D

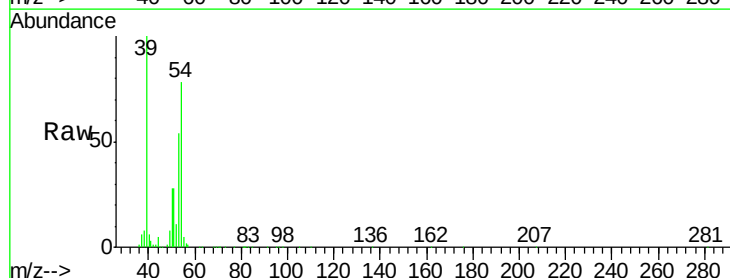
Acq: 13 Dec 2017 23:07

Tgt Ion: 39 Resp: 199286

Ion Ratio Lower Upper

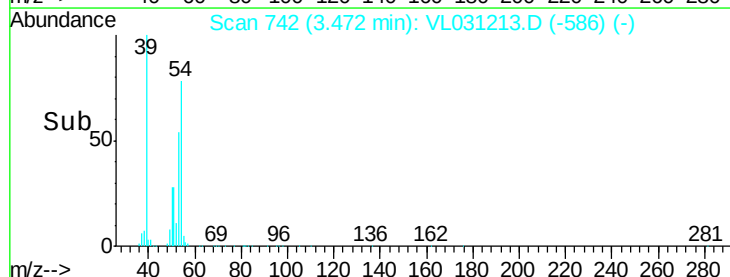
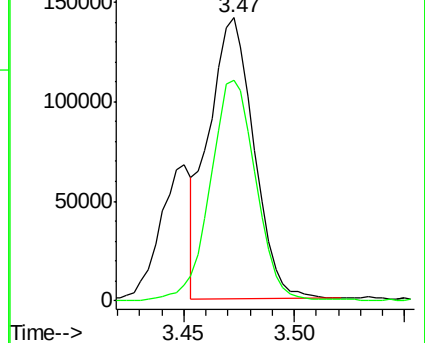
39 100

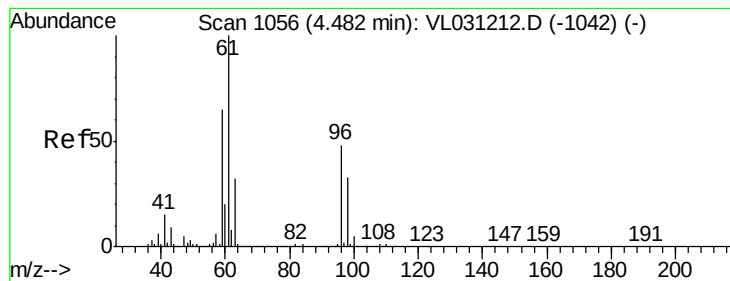
54 80.3 66.4 99.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 3.34 ppbv

RT: 4.49 min Scan# 1059

Delta R.T. 0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

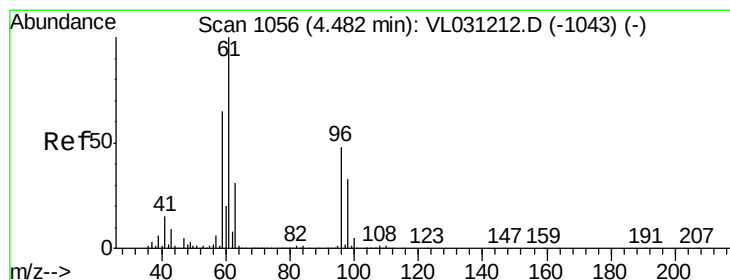
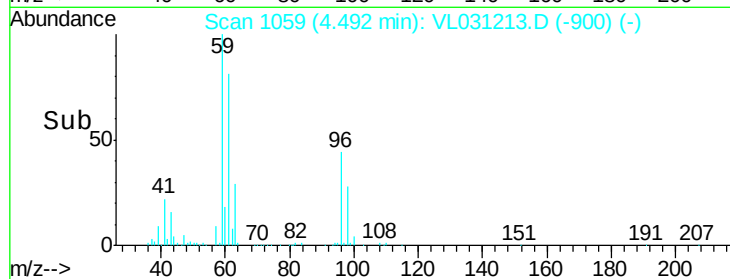
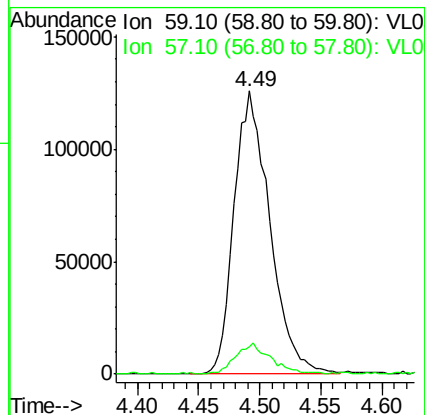
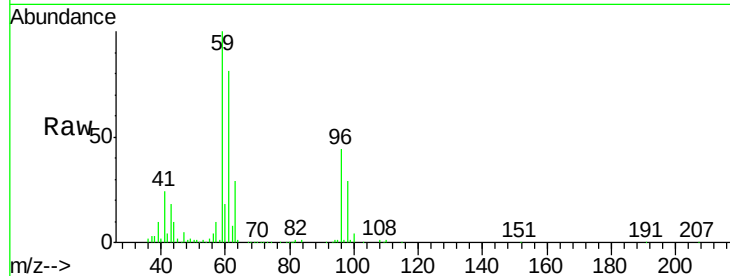
VSTDIC002

Tgt Ion: 59 Resp: 256036

Ion Ratio Lower Upper

59 100

57 10.8 8.2 12.2



#18

1,1-Dichloroethene

Concen: 2.72 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

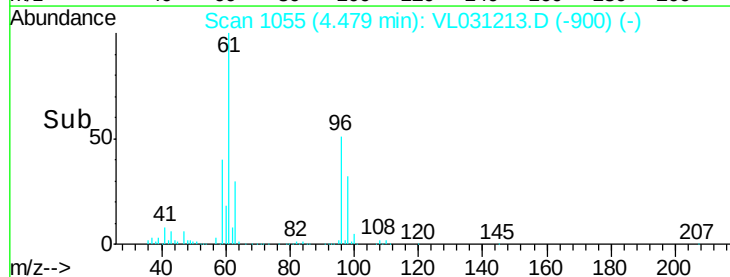
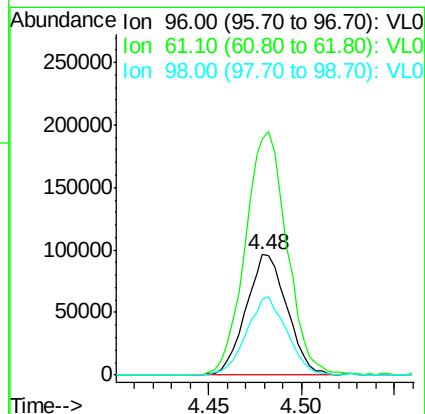
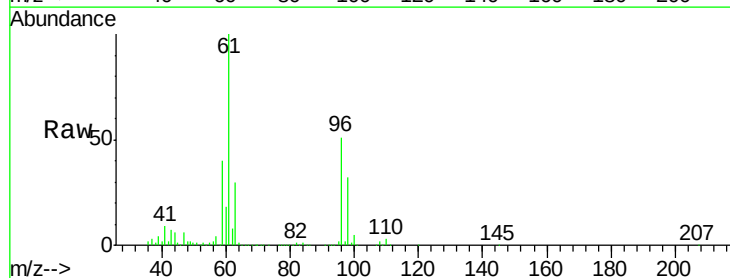
Tgt Ion: 96 Resp: 148250

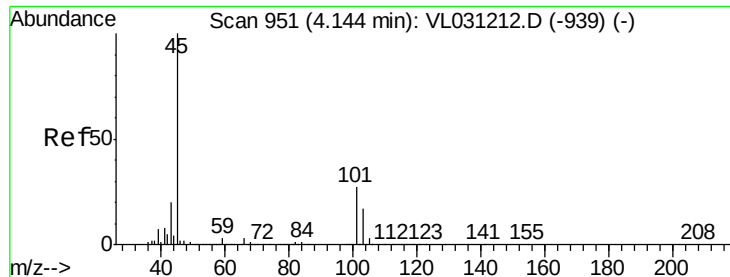
Ion Ratio Lower Upper

96 100

61 196.3 166.8 250.2

98 62.8 55.0 82.6





#19

Isopropyl Alcohol

Concen: 3.12 ppbv

RT: 4.15 min Scan# 953

Delta R.T. 0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

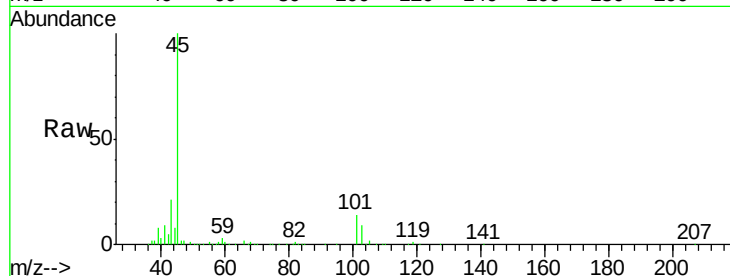
VSTDIC002

Tgt Ion: 45 Resp: 287463

Ion Ratio Lower Upper

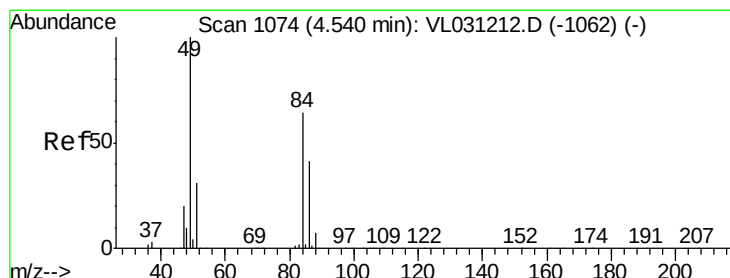
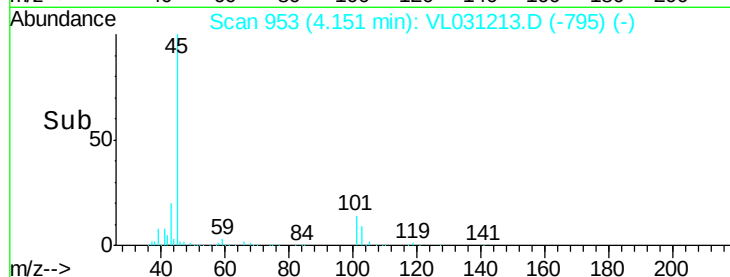
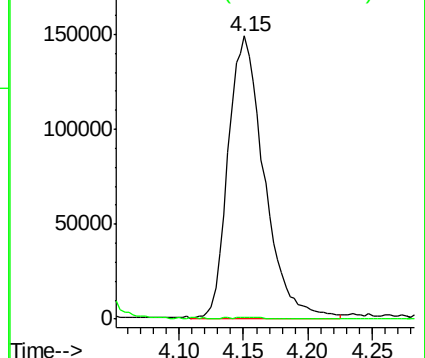
45 100

58 38.8 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: 2.78 ppbv

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Tgt Ion: 84 Resp: 152631

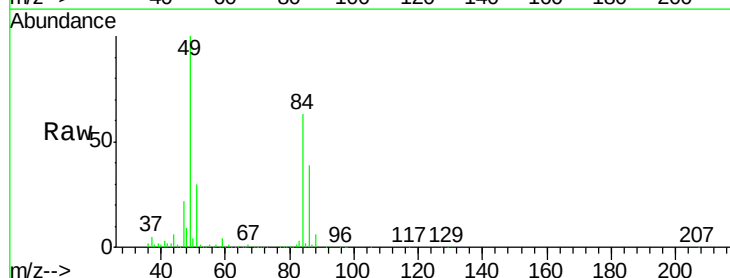
Ion Ratio Lower Upper

84 100

49 158.0 125.8 188.6

51 47.8 39.3 58.9

86 62.2 51.1 76.7

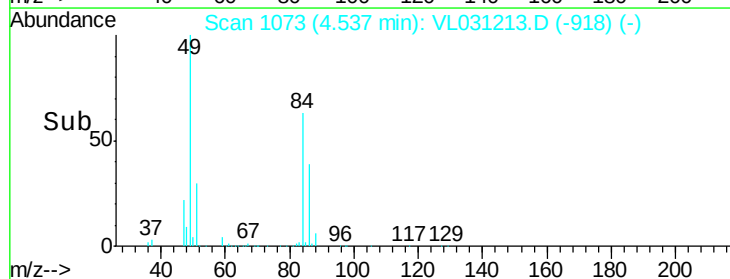
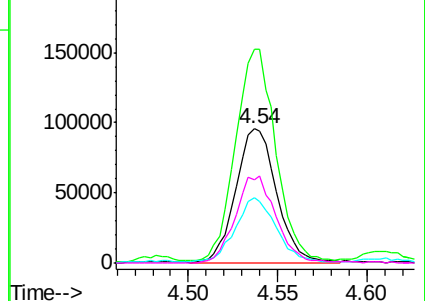


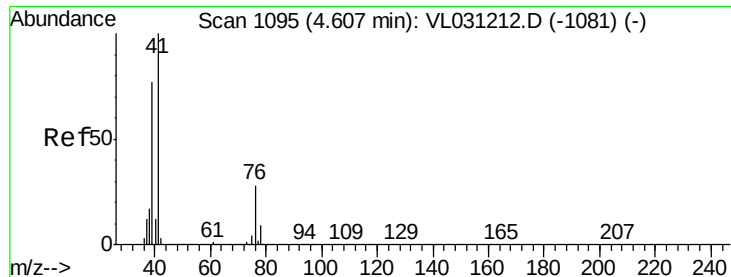
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

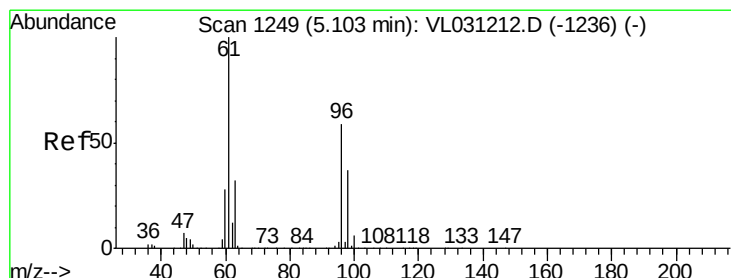
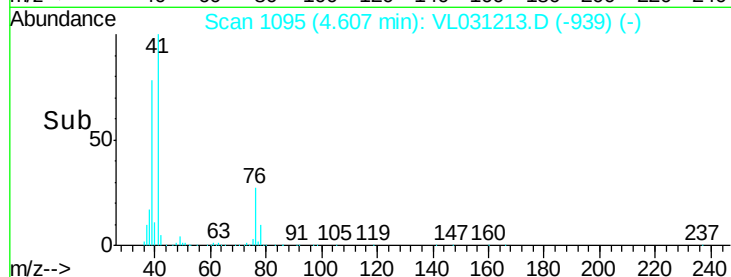
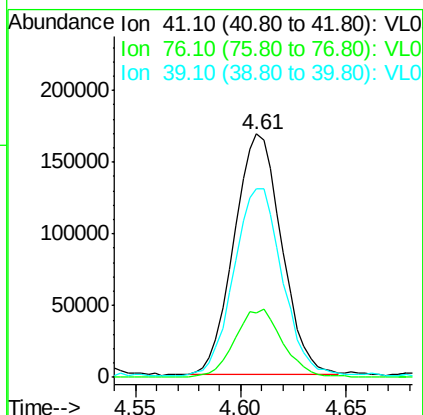
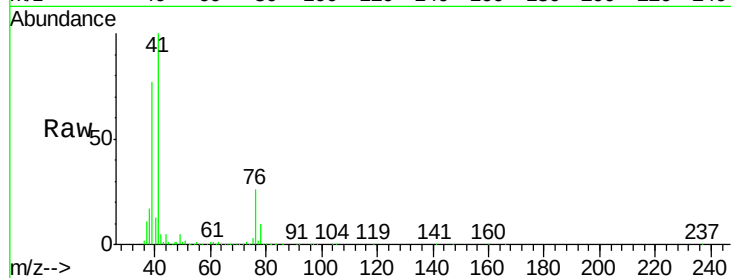




#21
 Allyl Chloride
 Concen: 3.34 ppbv
 RT: 4.61 min Scan# 1095
 Delta R.T. 0.00 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

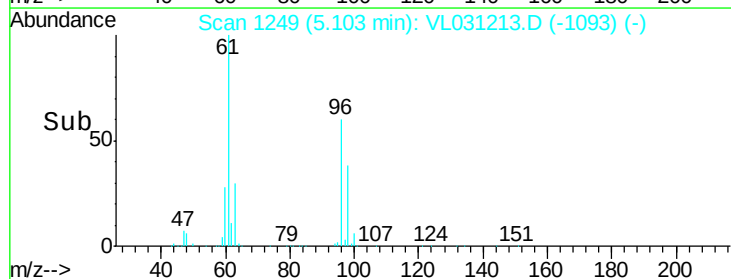
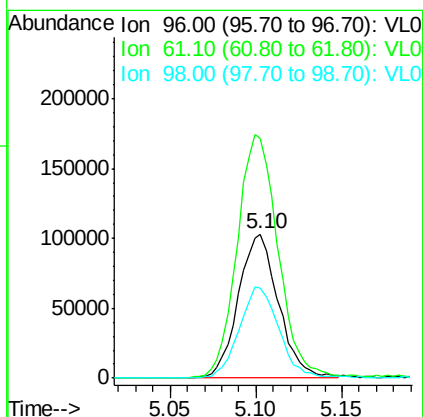
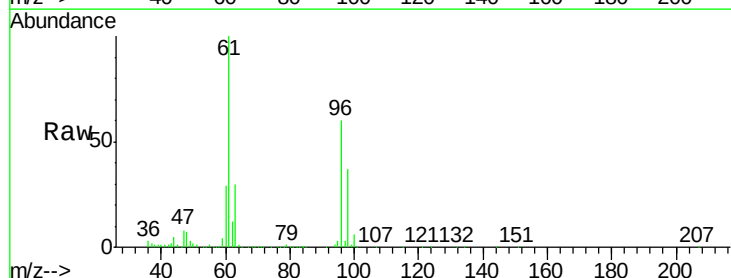
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

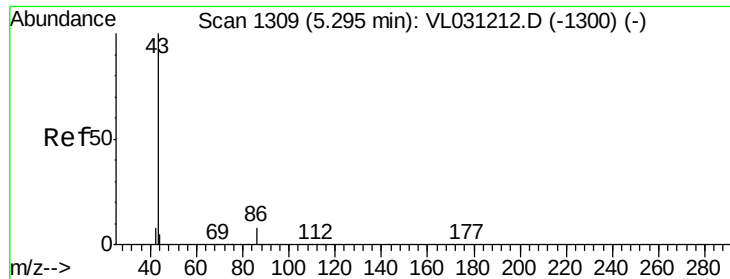
Tgt Ion: 41 Resp: 262857
 Ion Ratio Lower Upper
 41 100
 76 28.5 22.9 34.3
 39 80.4 62.6 93.8



#22
 trans-1,2-Dichloroethene
 Concen: 2.45 ppbv
 RT: 5.10 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Tgt Ion: 96 Resp: 167267
 Ion Ratio Lower Upper
 96 100
 61 166.4 135.0 202.4
 98 62.2 50.5 75.7





#23

Vinyl Acetate

Concen: 2.23 ppbv

RT: 5.29 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 628072

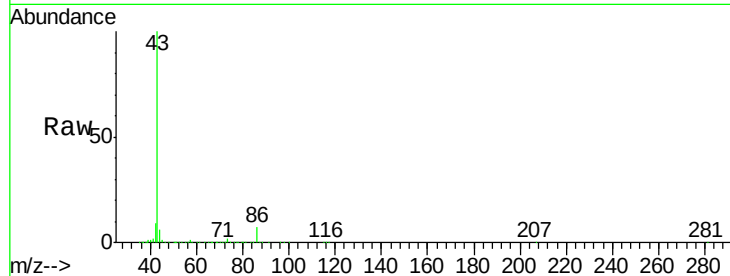
Ion Ratio Lower Upper

43 100

86 7.4 5.9 8.9

42 8.5 7.3 10.9

44 4.7 3.7 5.5

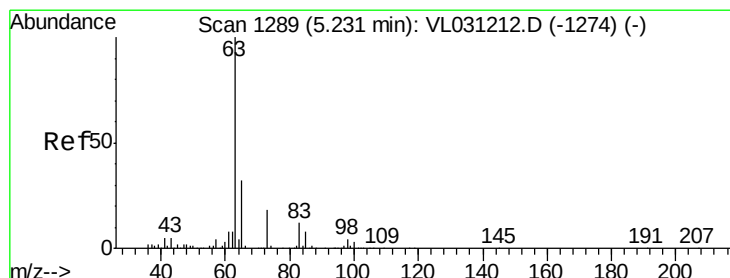
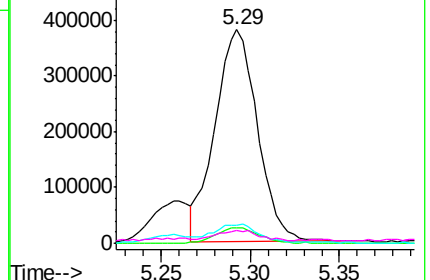
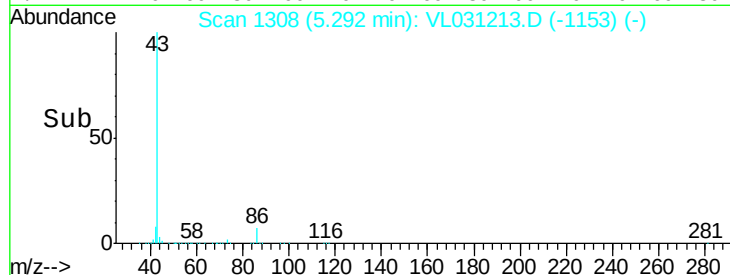


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.01 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

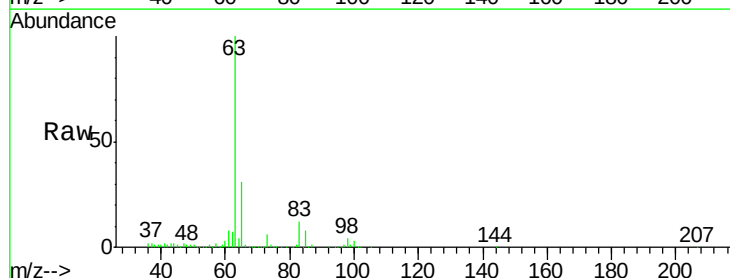
Tgt Ion: 63 Resp: 488022

Ion Ratio Lower Upper

63 100

98 4.4 2.3 6.8

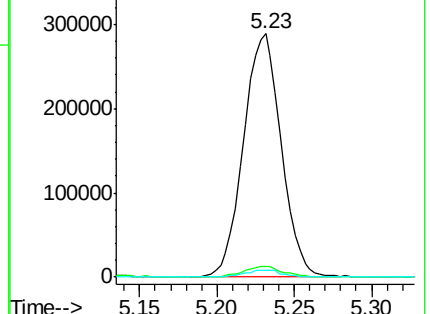
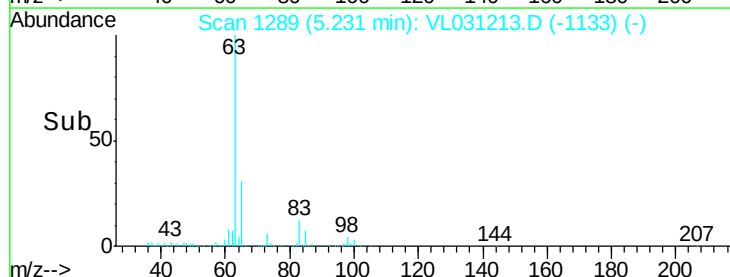
100 2.6 1.4 4.2

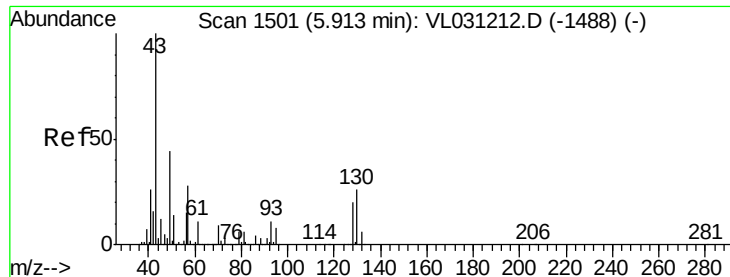


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

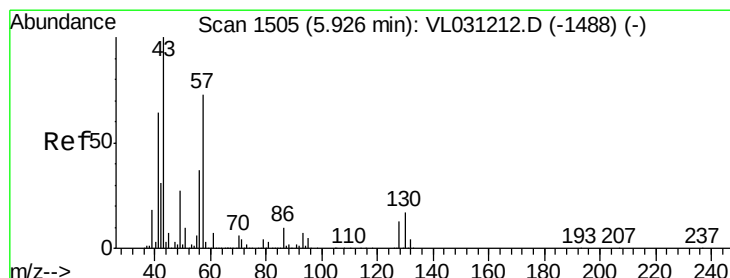
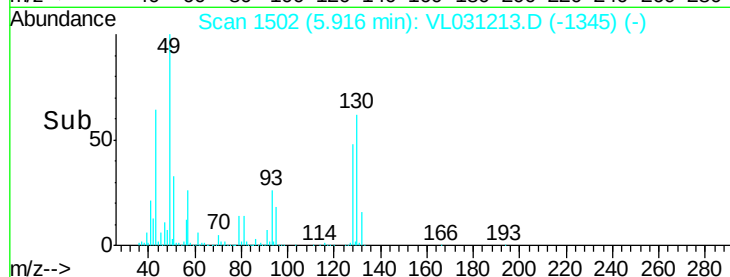
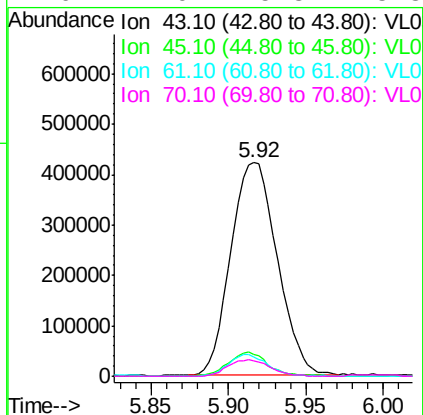
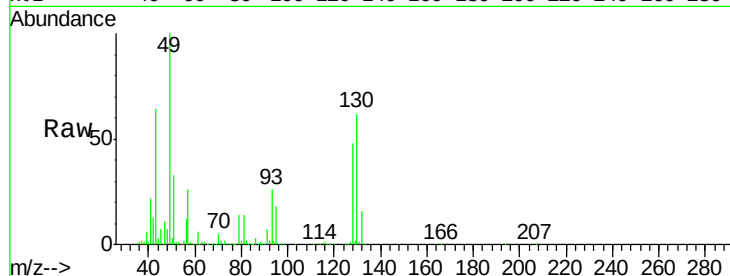




#25
Ethyl Acetate
Concen: 2.25 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. 0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

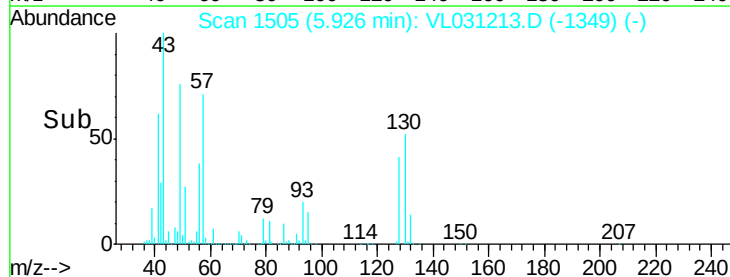
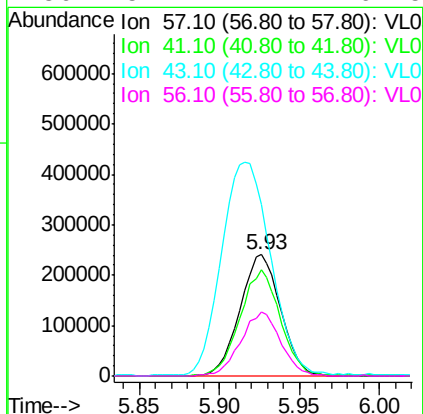
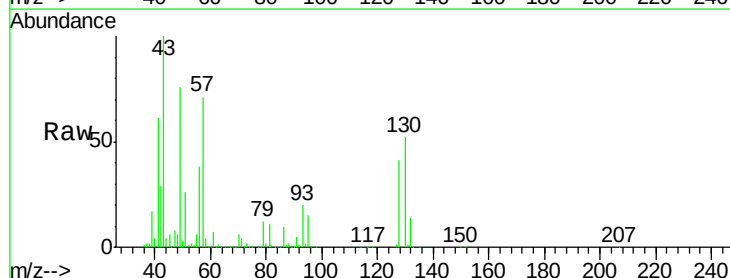
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

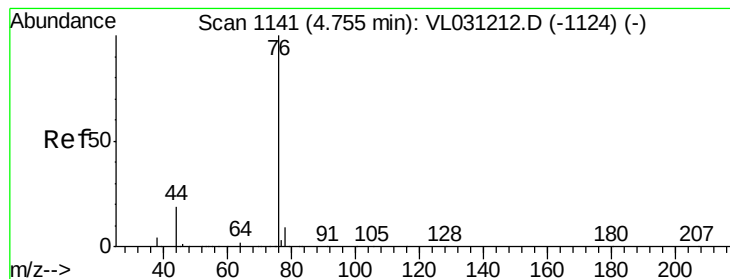
Tgt Ion:	43	Resp:	883911
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.0	12.0
61	9.1	7.4	11.0
70	7.0	5.8	8.8



#26
Hexane
Concen: 2.17 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Tgt Ion:	57	Resp:	413595
Ion	Ratio	Lower	Upper
57	100		
41	87.0	70.3	105.5
43	215.6	173.8	260.8
56	52.7	41.7	62.5





#27

Carbon Disulfide

Concen: 3.05 ppbv

RT: 4.76 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

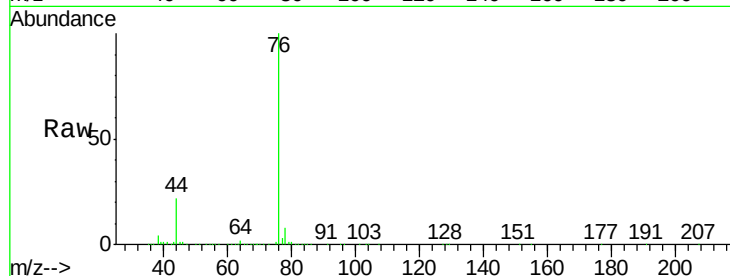
Tgt Ion: 76 Resp: 408799

Ion Ratio Lower Upper

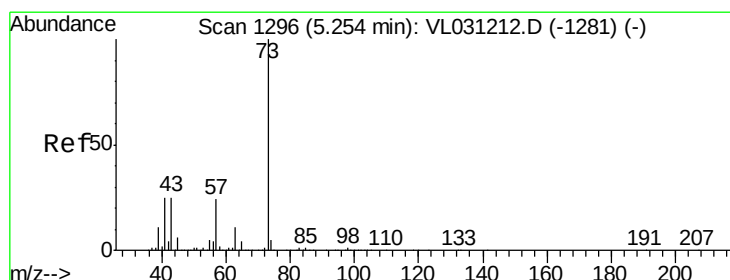
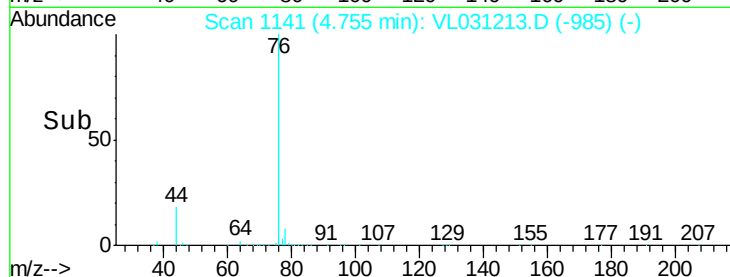
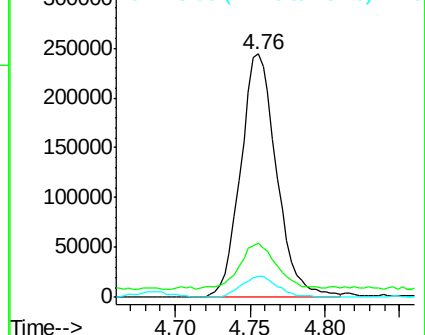
76 100

44 25.4 16.0 24.0#

78 8.7 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: 2.54 ppbv

RT: 5.26 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VL031213.D

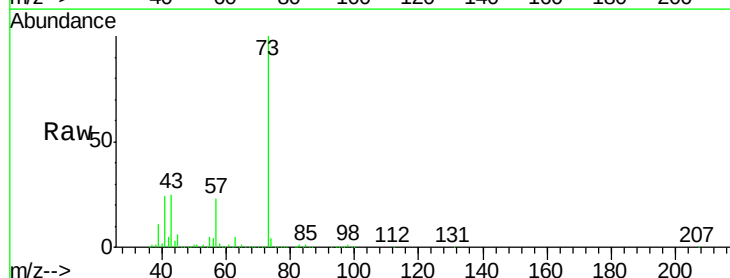
Acq: 13 Dec 2017 23:07

Tgt Ion: 73 Resp: 536507

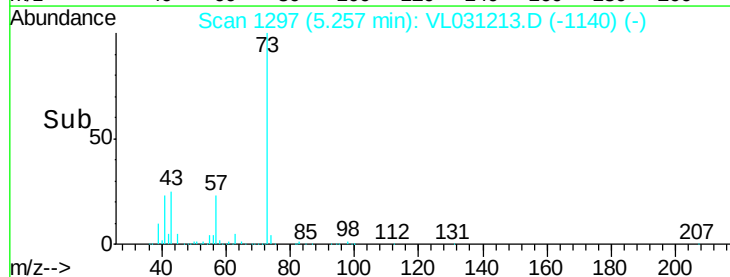
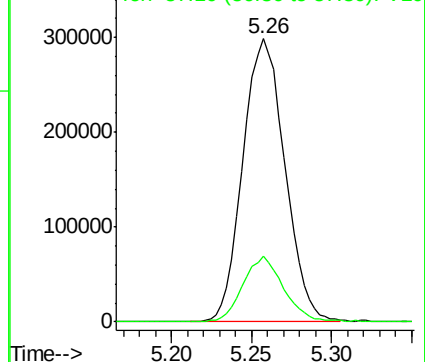
Ion Ratio Lower Upper

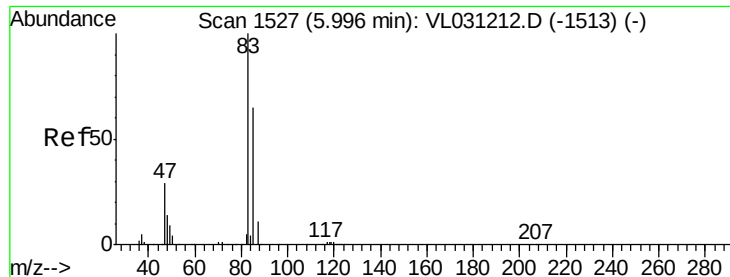
73 100

57 22.5 18.5 27.7



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

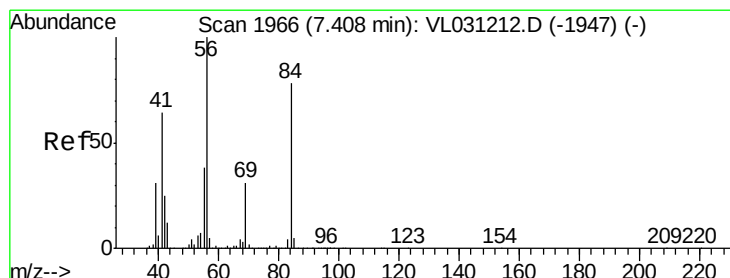
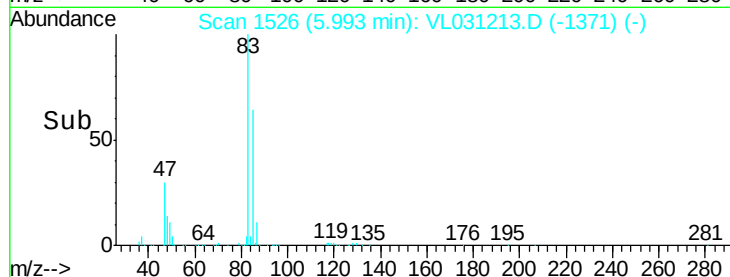
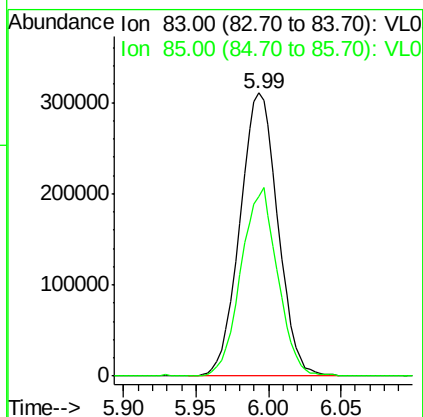
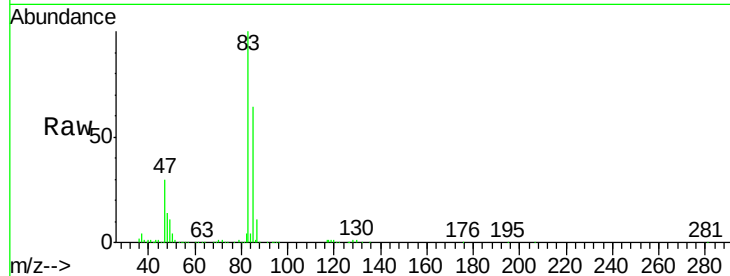




#29
Chloroform
Concen: 2.06 ppbv
RT: 5.99 min Scan# 1526
Delta R.T. -0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

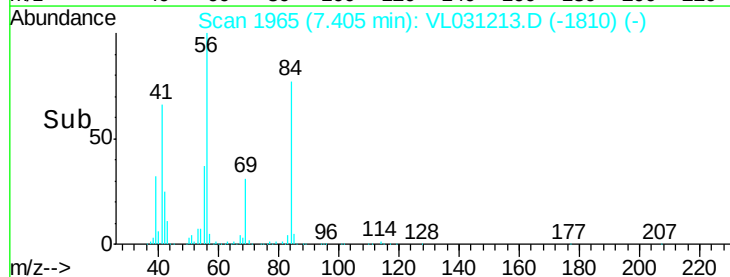
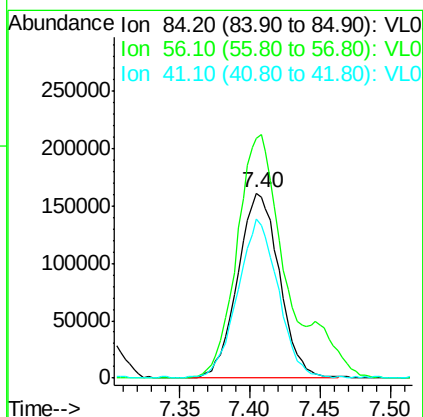
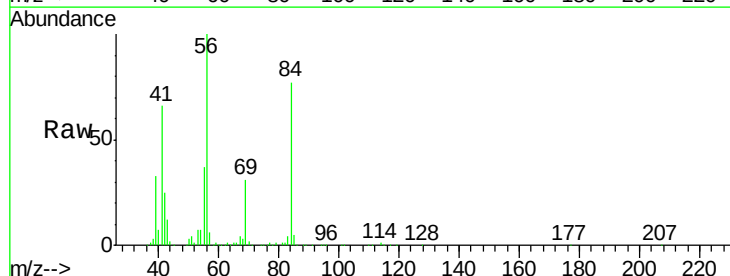
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

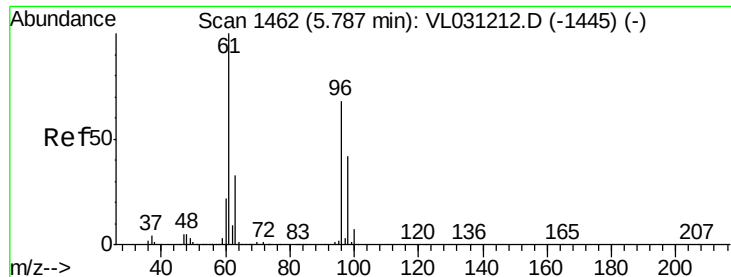
Tgt Ion: 83 Resp: 563969
Ion Ratio Lower Upper
83 100
85 63.6 51.8 77.6



#30
Cyclohexane
Concen: 2.18 ppbv
RT: 7.40 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Tgt Ion: 84 Resp: 333256
Ion Ratio Lower Upper
84 100
56 157.2 108.0 162.0
41 82.5 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 1.99 ppbv

RT: 5.78 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

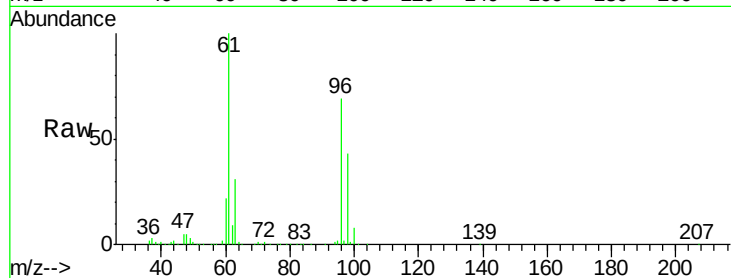
Tgt Ion: 61 Resp: 363594

Ion Ratio Lower Upper

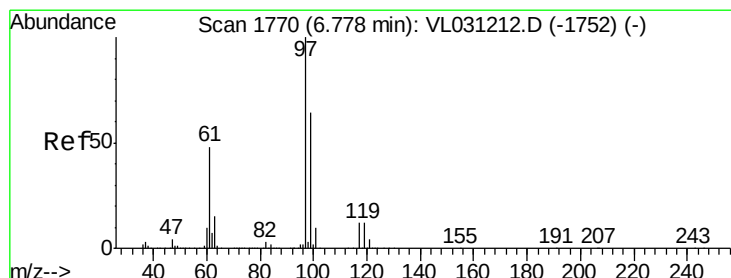
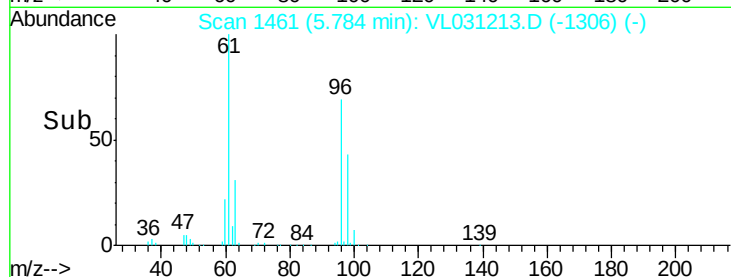
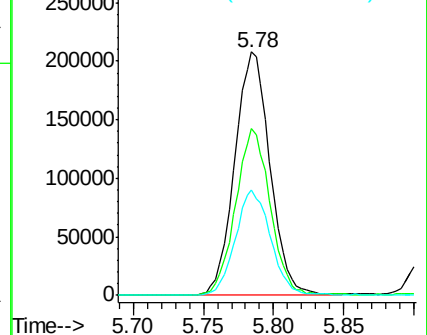
61 100

96 68.6 54.4 81.6

98 43.3 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: 2.48 ppbv

RT: 6.77 min Scan# 1768

Delta R.T. -0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

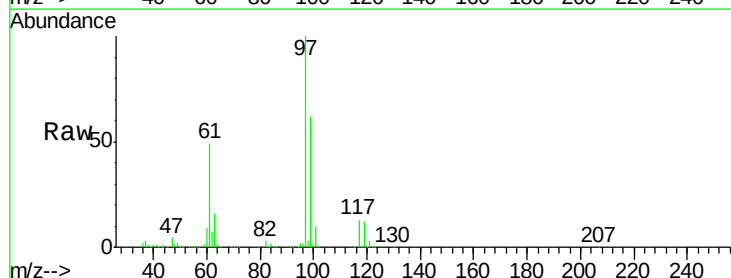
Tgt Ion: 97 Resp: 565467

Ion Ratio Lower Upper

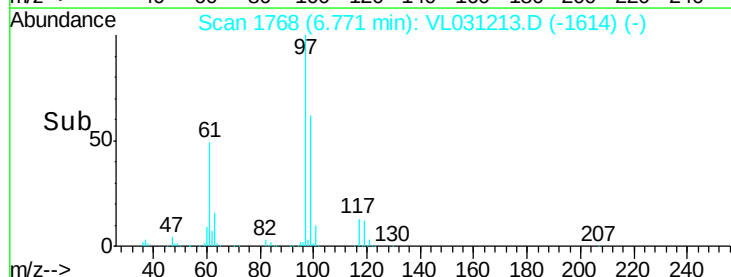
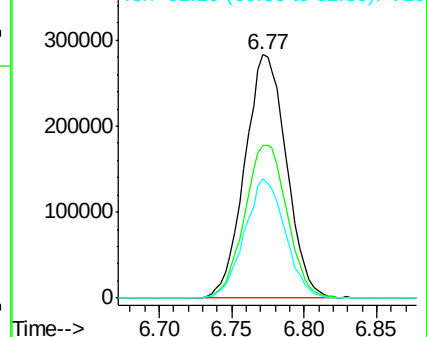
97 100

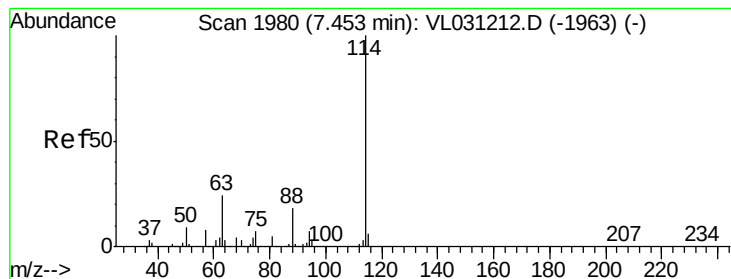
99 64.1 51.4 77.0

61 48.0 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: 7.45 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

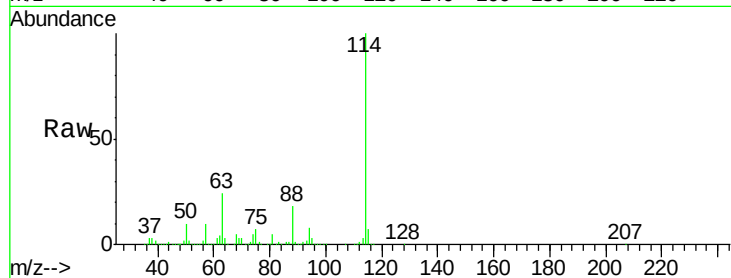
Tgt Ion:114 Resp: 3753144

Ion Ratio Lower Upper

114 100

63 24.6 19.8 29.8

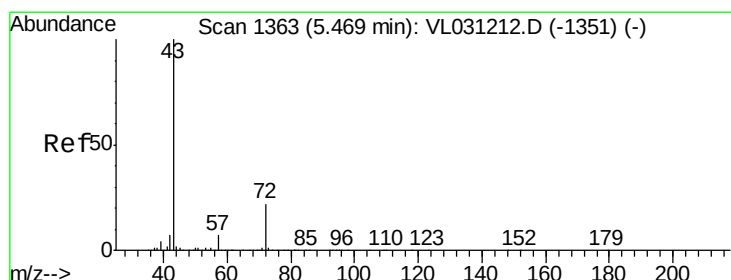
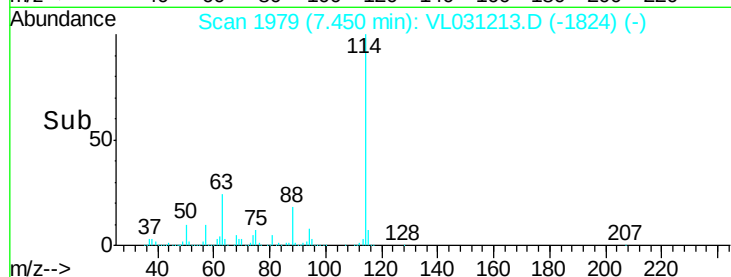
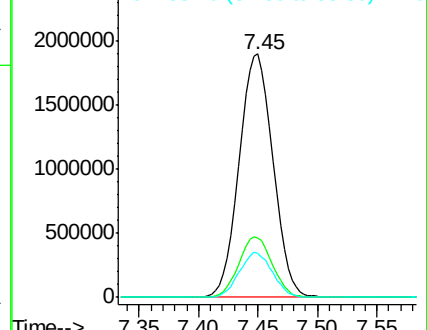
88 18.0 14.2 21.4



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: 1.90 ppbv

RT: 5.47 min Scan# 1364

Delta R.T. 0.00 min

Lab File: VL031213.D

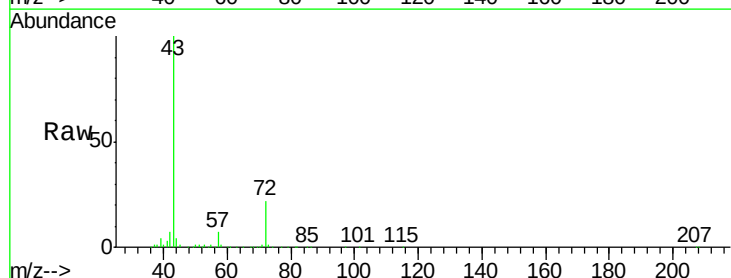
Acq: 13 Dec 2017 23:07

Tgt Ion: 43 Resp: 583902

Ion Ratio Lower Upper

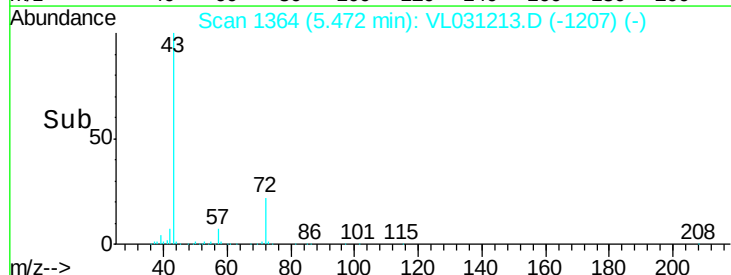
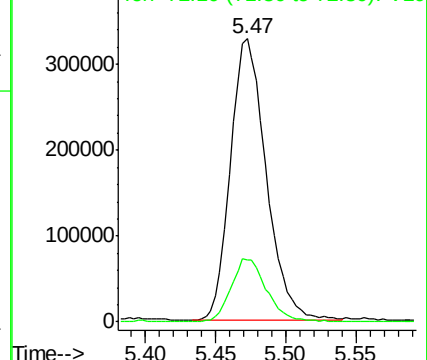
43 100

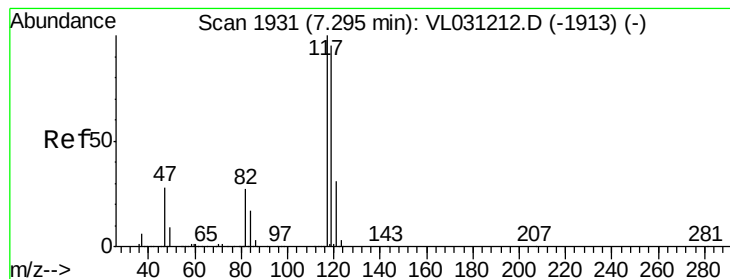
72 22.5 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 2.11 ppbv

RT: 7.29 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

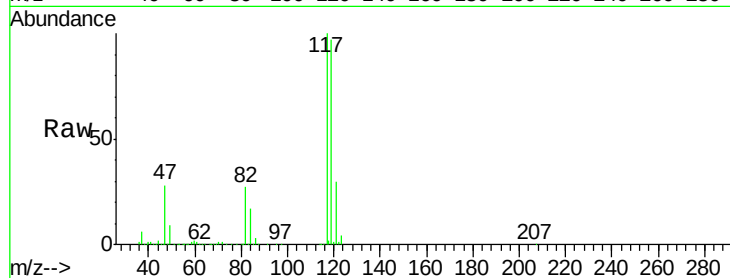
Tgt Ion: 117 Resp: 555995

Ion Ratio Lower Upper

117 100

119 97.2 75.9 113.9

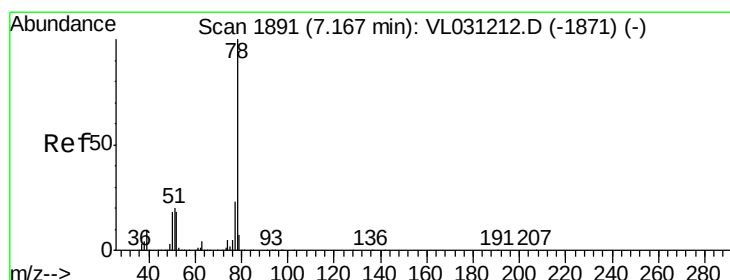
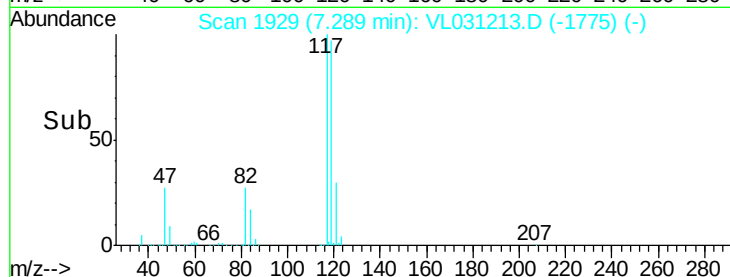
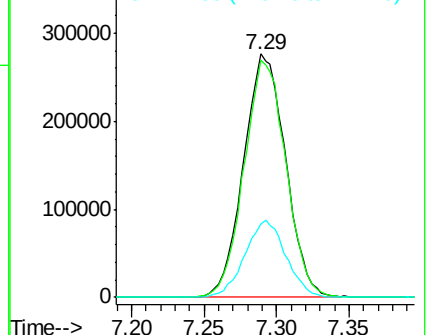
121 30.0 24.6 37.0



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: 1.93 ppbv

RT: 7.16 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

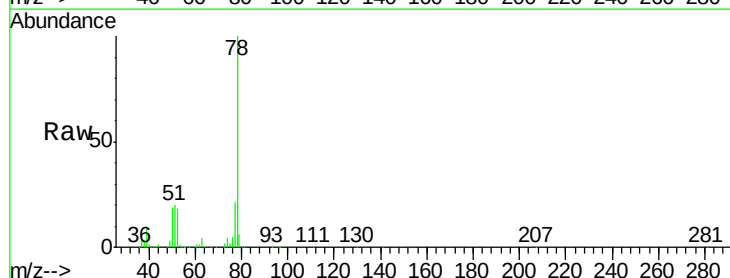
Tgt Ion: 78 Resp: 829043

Ion Ratio Lower Upper

78 100

77 21.3 18.1 27.1

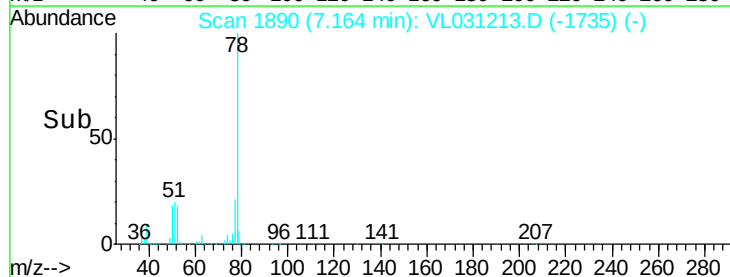
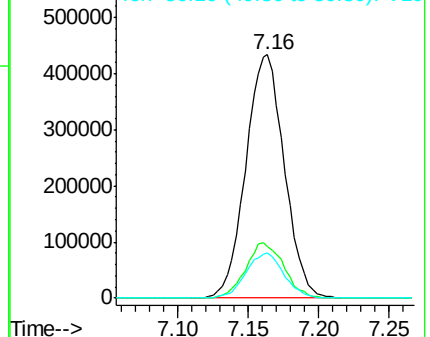
50 18.5 14.6 21.8

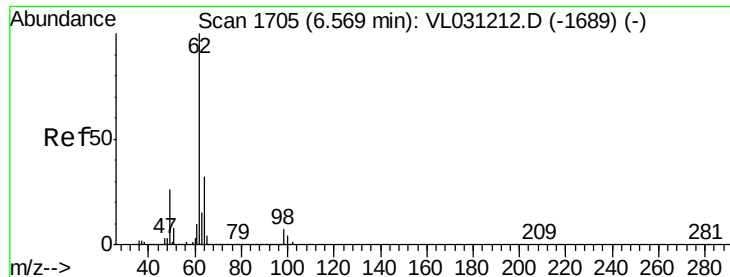


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

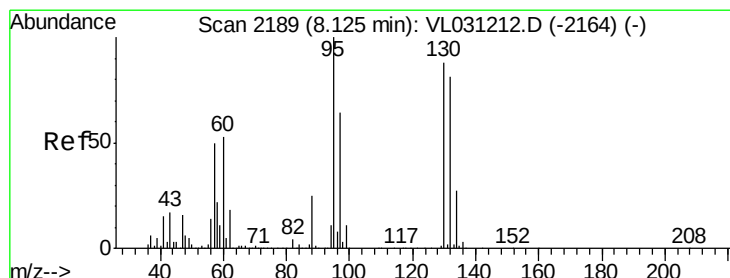
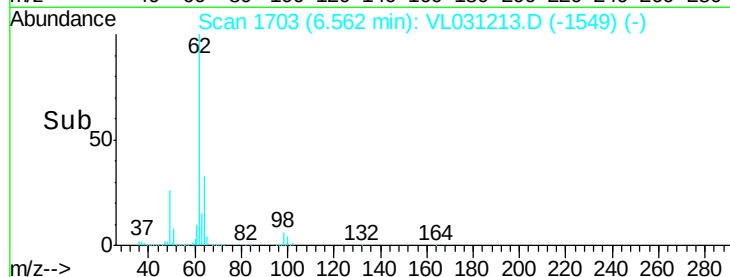
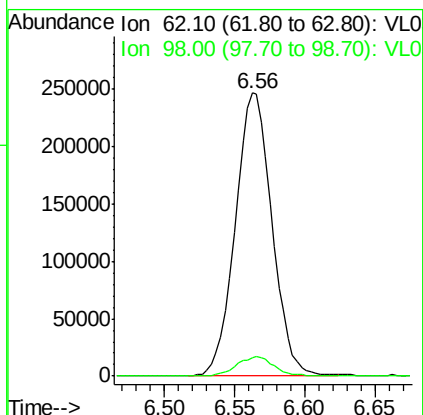
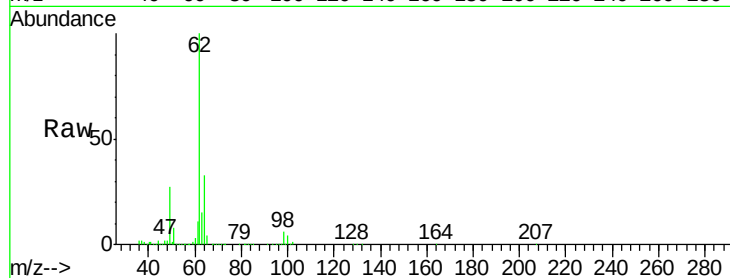




#37
 1,2-Dichloroethane
 Concen: 1.79 ppbv
 RT: 6.56 min Scan# 1703
 Delta R.T. -0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

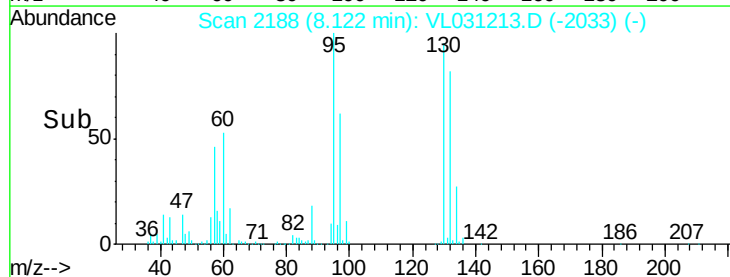
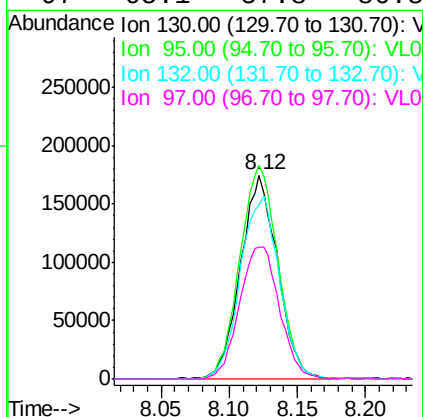
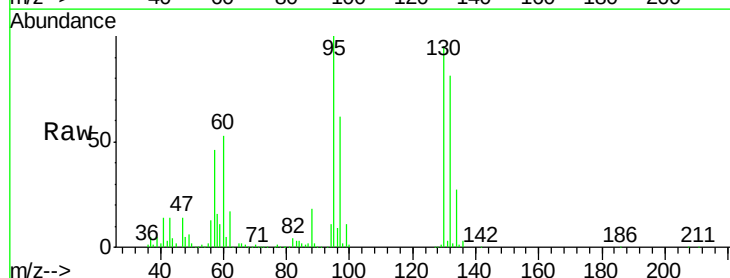
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

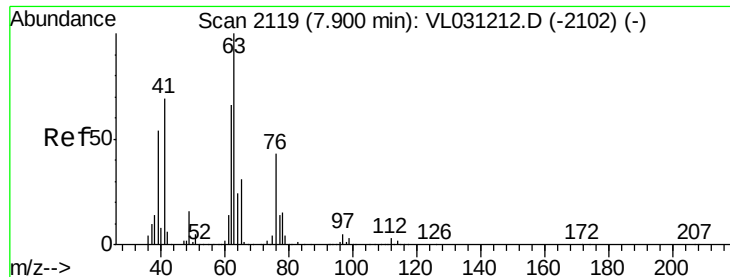
Tgt Ion: 62 Resp: 450528
 Ion Ratio Lower Upper
 62 100
 98 7.0 5.4 8.2



#38
 Trichloroethene
 Concen: 1.99 ppbv
 RT: 8.12 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Tgt Ion: 130 Resp: 325974
 Ion Ratio Lower Upper
 130 100
 95 105.3 90.6 135.8
 132 85.6 73.5 110.3
 97 65.1 57.8 86.8





#39

1,2-Dichloropropane

Concen: 1.83 ppbv

RT: 7.90 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

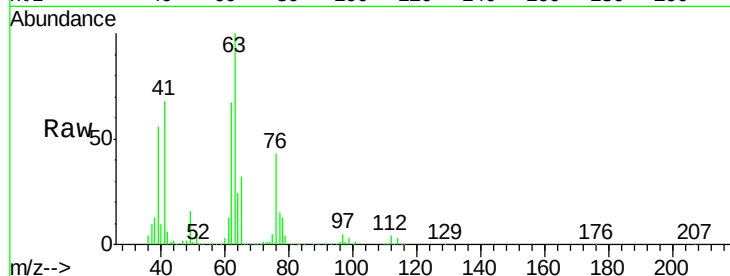
Tgt Ion: 63 Resp: 300765

Ion Ratio Lower Upper

63 100

41 67.7 55.2 82.8

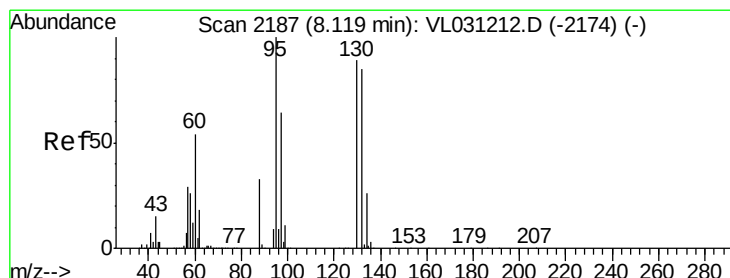
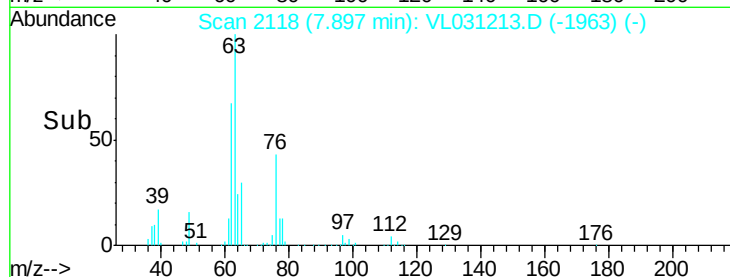
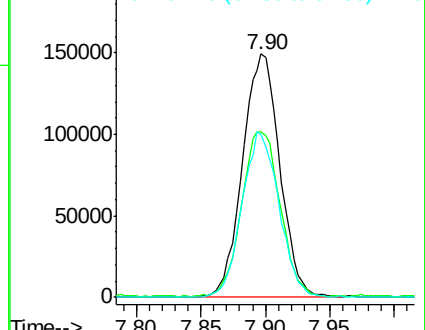
62 67.0 53.0 79.4



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



#40

1,4-Dioxane

Concen: 1.61 ppbv

RT: 8.13 min Scan# 2191

Delta R.T. 0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Tgt Ion: 88 Resp: 105404

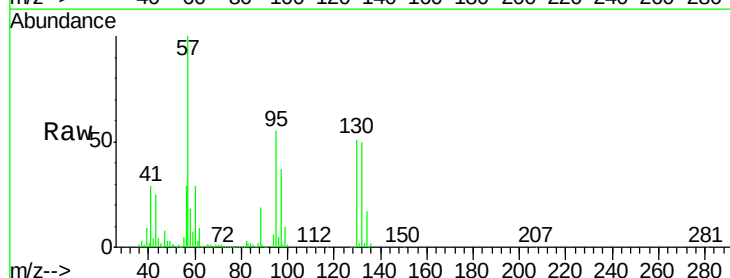
Ion Ratio Lower Upper

88 100

58 145.7 104.3 156.5

43 297.3 0.0 0.0#

57 1318.0 0.0 0.0#

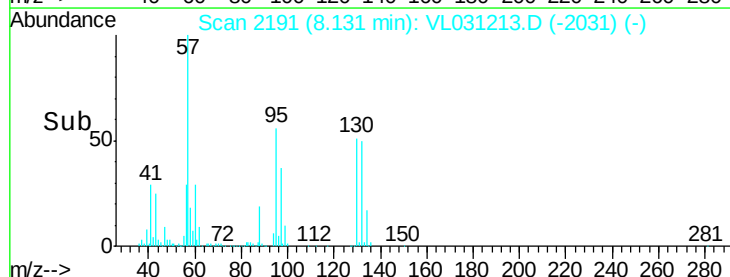
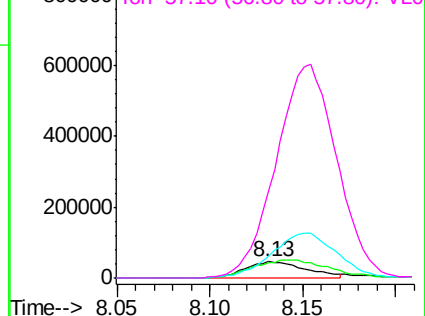


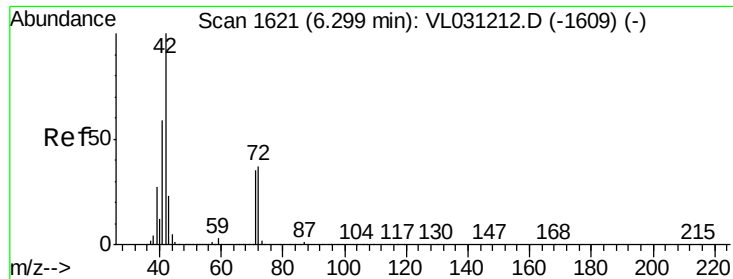
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 2.06 ppbv

RT: 6.31 min Scan# 1623

Delta R.T. 0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

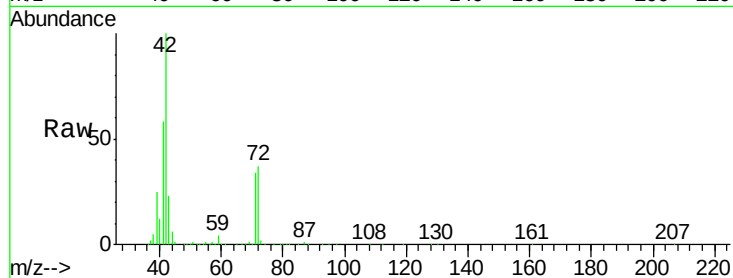
Tgt Ion: 42 Resp: 332580

Ion Ratio Lower Upper

42 100

72 37.4 30.2 45.4

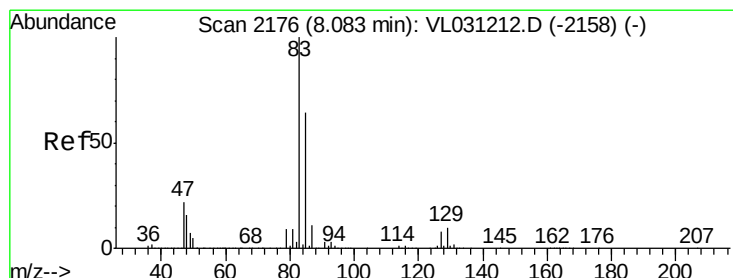
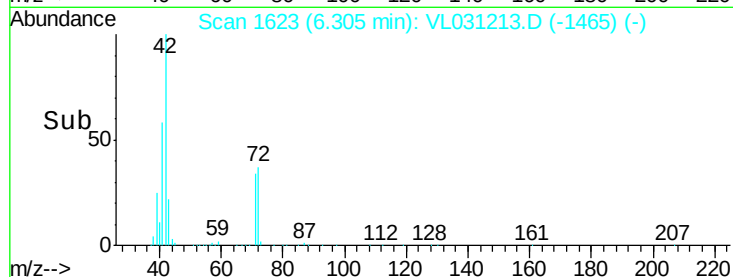
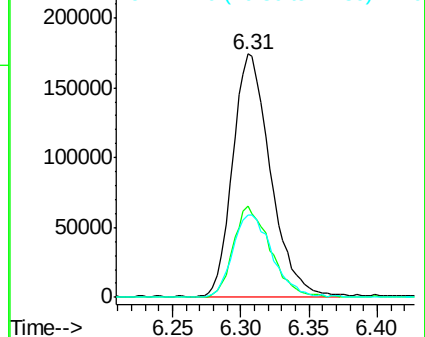
71 36.1 29.0 43.6



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: 1.93 ppbv

RT: 8.08 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

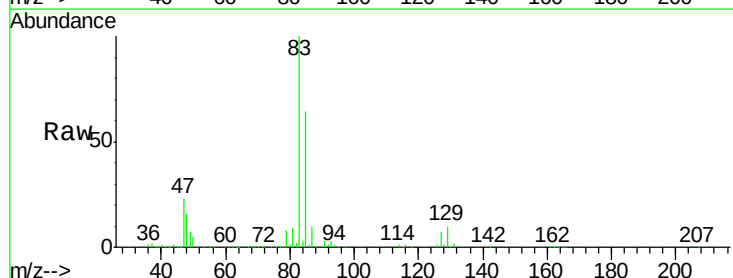
Tgt Ion: 83 Resp: 580175

Ion Ratio Lower Upper

83 100

85 63.7 51.5 77.3

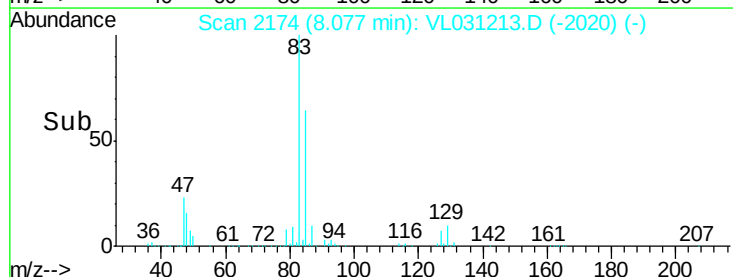
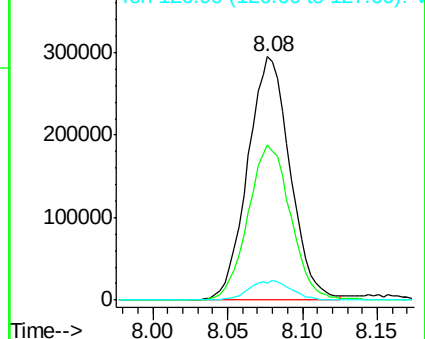
127 7.0 6.5 9.7

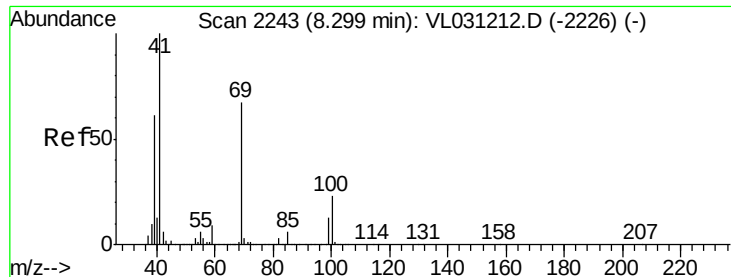


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

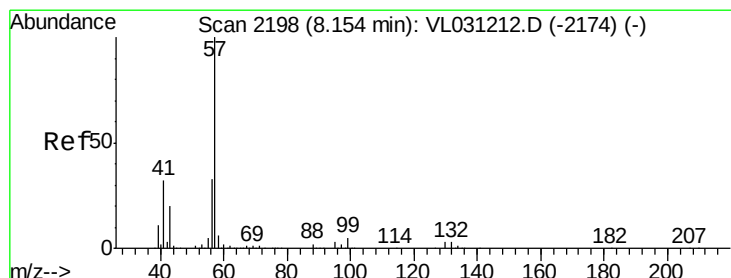
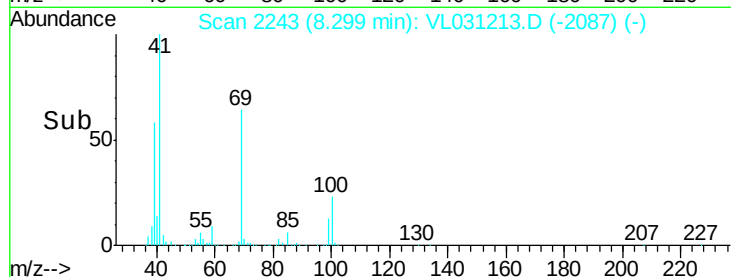
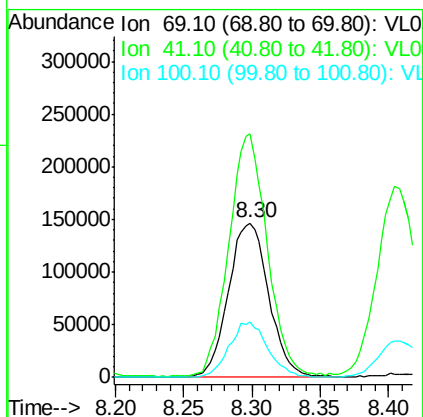
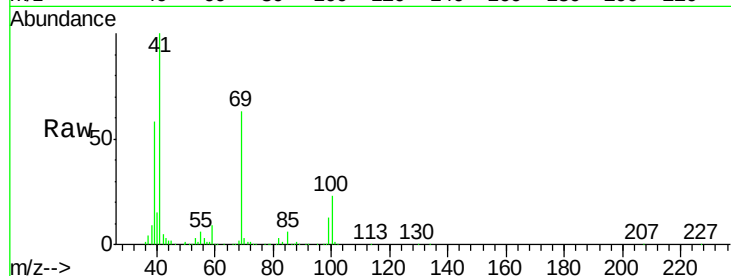




#43
Methyl Methacrylate
Concen: 2.00 ppbv
RT: 8.30 min Scan# 2243
Delta R.T. 0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

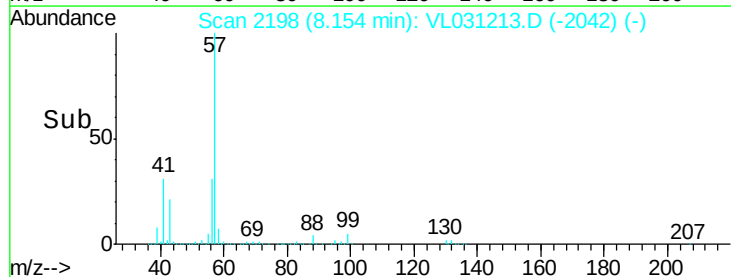
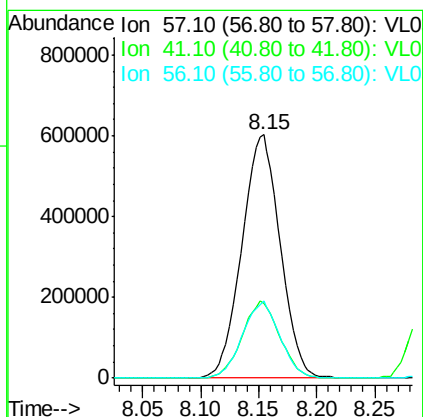
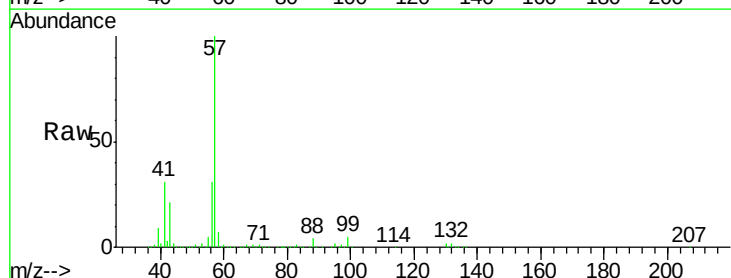
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

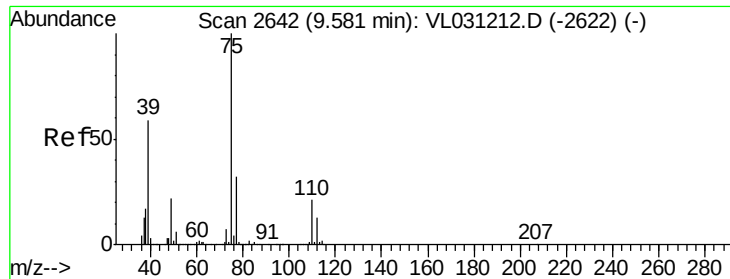
Tgt Ion: 69 Resp: 300255
Ion Ratio Lower Upper
69 100
41 149.9 121.1 181.7
100 34.6 27.4 41.2



#44
2,2,4-Trimethylpentane
Concen: 1.92 ppbv
RT: 8.15 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Tgt Ion: 57 Resp: 1381756
Ion Ratio Lower Upper
57 100
41 31.0 25.5 38.3
56 30.7 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 2.16 ppbv

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

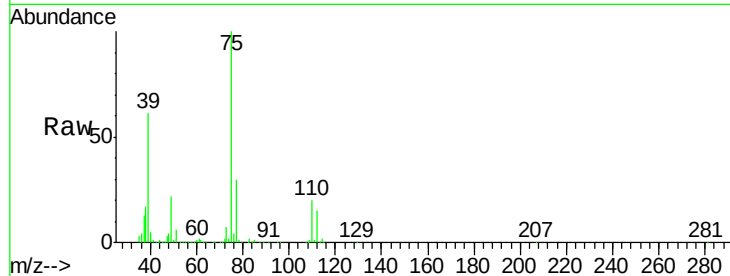
VSTDIC002

Tgt Ion: 75 Resp: 401680

Ion Ratio Lower Upper

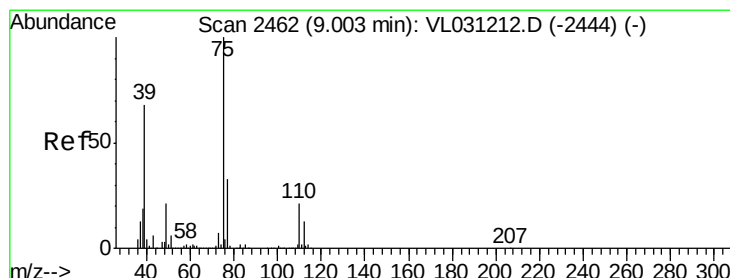
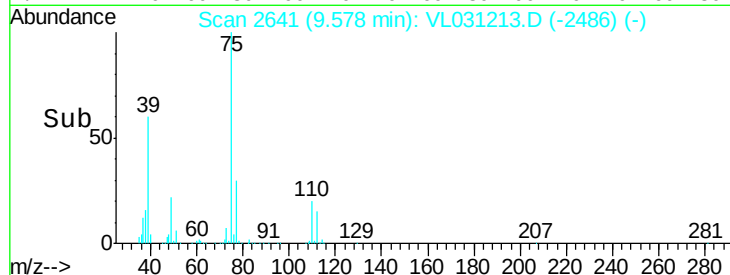
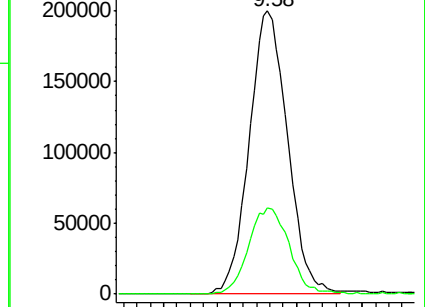
75 100

77 30.5 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 2.12 ppbv

RT: 9.00 min Scan# 2461

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

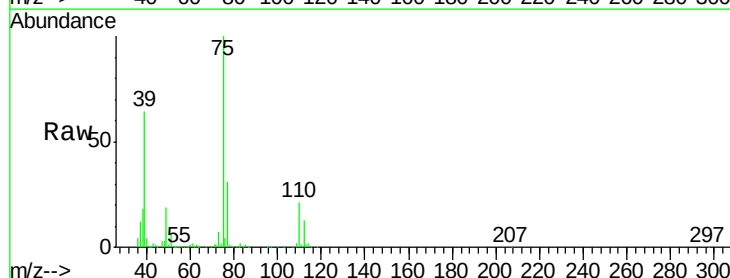
Tgt Ion: 75 Resp: 523767

Ion Ratio Lower Upper

75 100

39 63.4 54.2 81.4

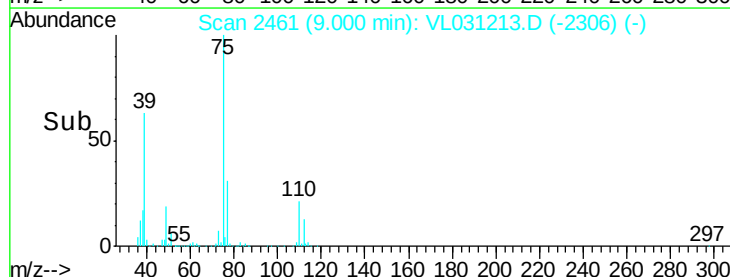
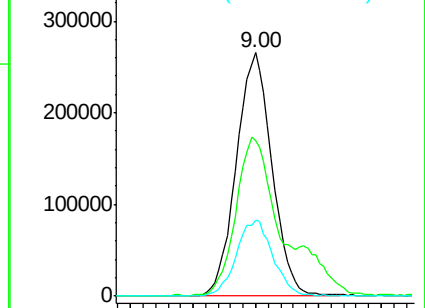
77 31.3 26.2 39.4

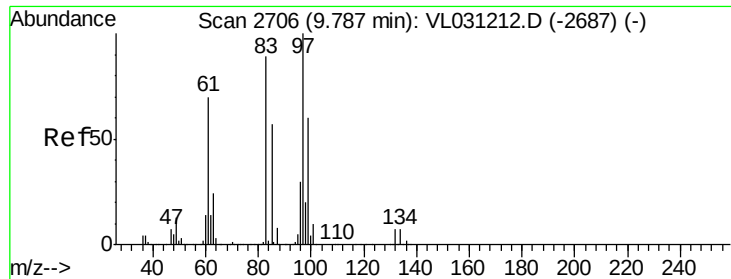


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 1.85 ppbv

RT: 9.78 min Scan# 2704

Delta R.T. -0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 322837

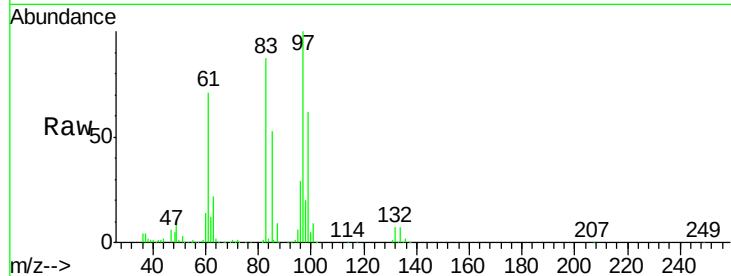
Ion Ratio Lower Upper

97 100

83 87.2 71.0 106.4

85 52.7 45.3 67.9

99 61.8 47.8 71.6

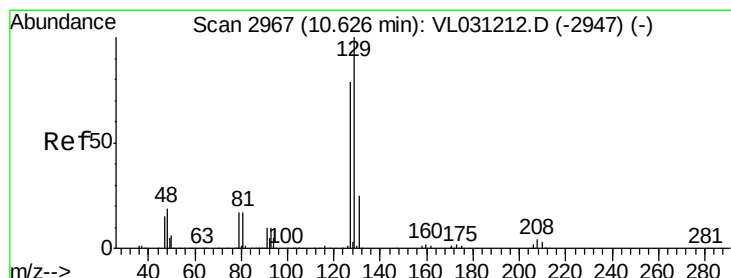
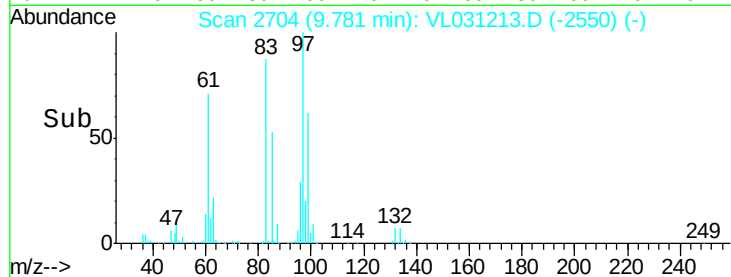
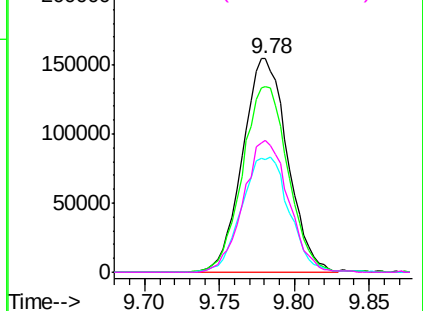


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 2.19 ppbv

RT: 10.62 min Scan# 2966

Delta R.T. -0.00 min

Lab File: VL031213.D

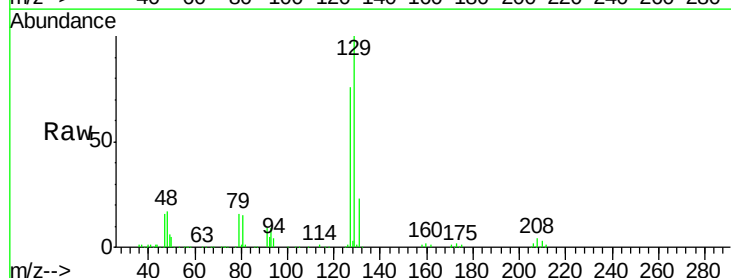
Acq: 13 Dec 2017 23:07

Tgt Ion: 129 Resp: 513999

Ion Ratio Lower Upper

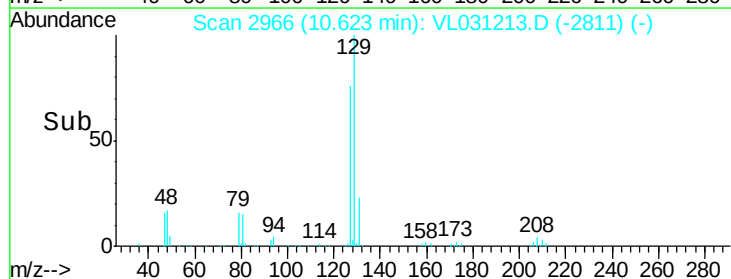
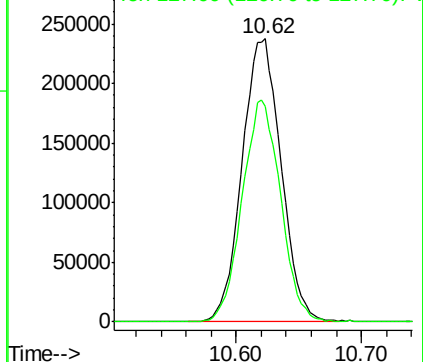
129 100

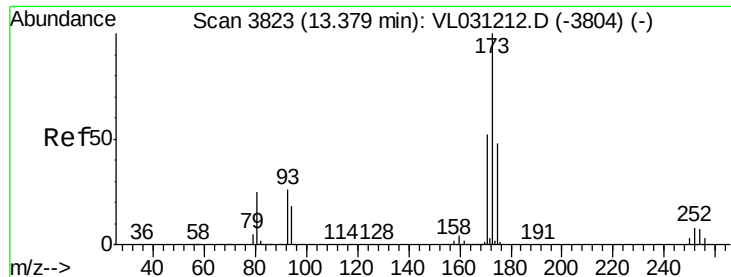
127 77.1 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 2.21 ppbv

RT: 13.37 min Scan# 3821

Delta R.T. -0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

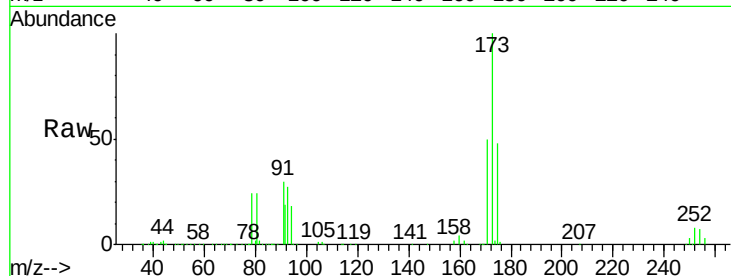
Tgt Ion: 173 Resp: 392165

Ion Ratio Lower Upper

173 100

175 48.7 39.0 58.4

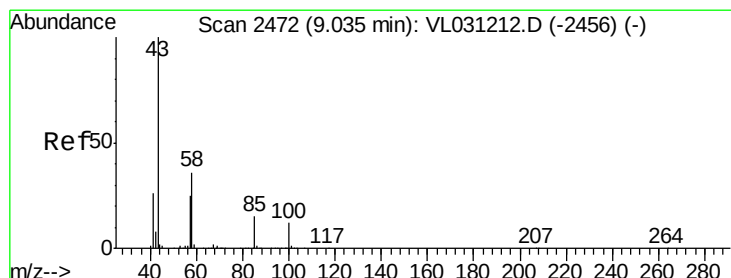
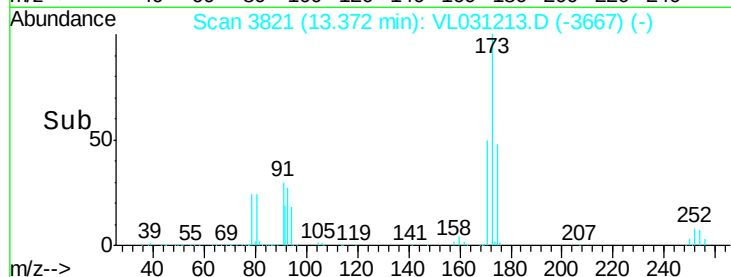
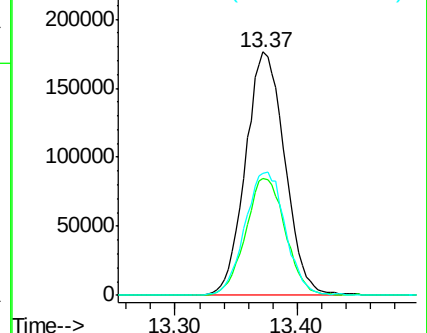
171 52.2 41.8 62.8



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: 1.90 ppbv

RT: 9.04 min Scan# 2474

Delta R.T. 0.01 min

Lab File: VL031213.D

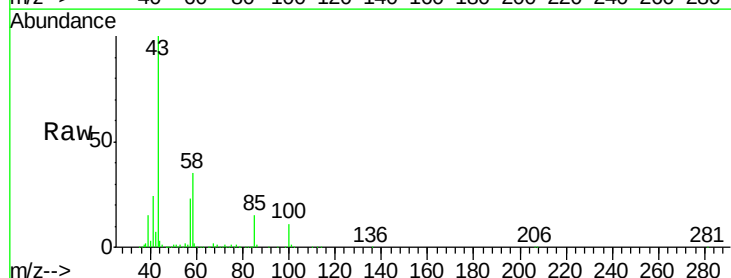
Acq: 13 Dec 2017 23:07

Tgt Ion: 43 Resp: 738643

Ion Ratio Lower Upper

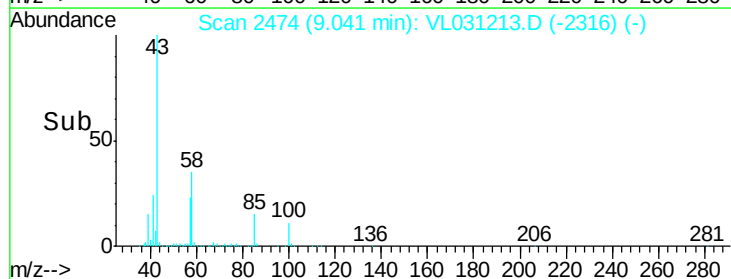
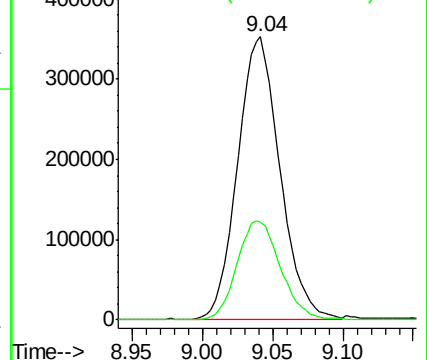
43 100

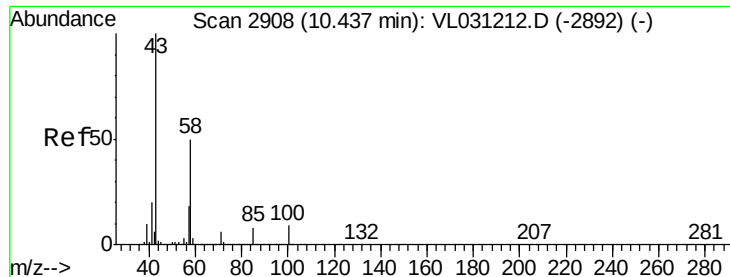
58 36.3 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

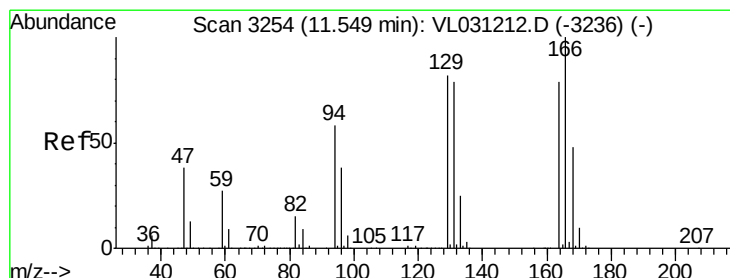
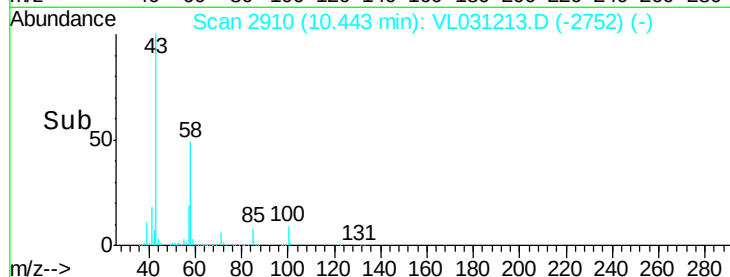
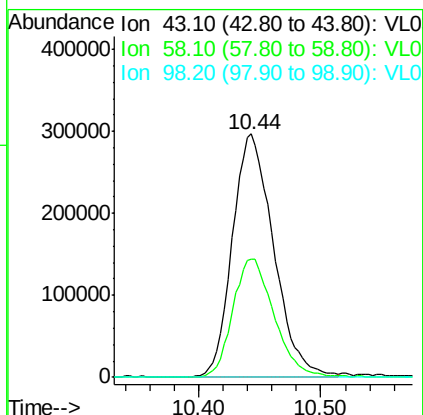
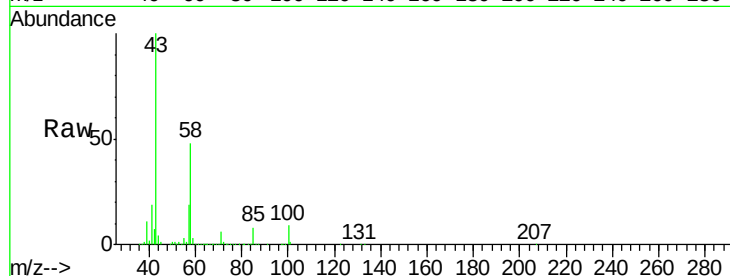




#51
 2-Hexanone
 Concen: 1.87 ppbv
 RT: 10.44 min Scan# 2910
 Delta R.T. 0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

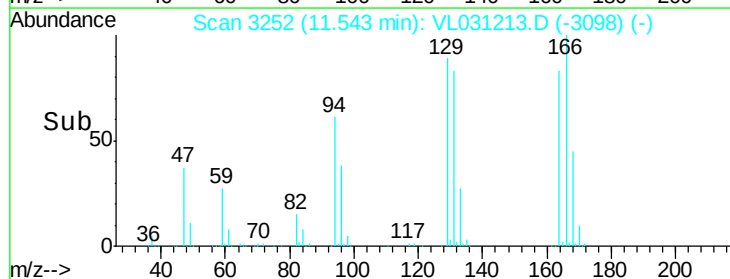
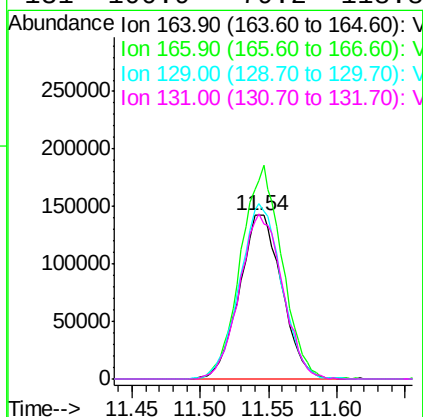
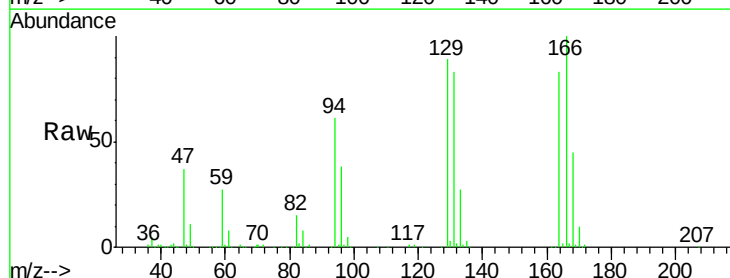
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

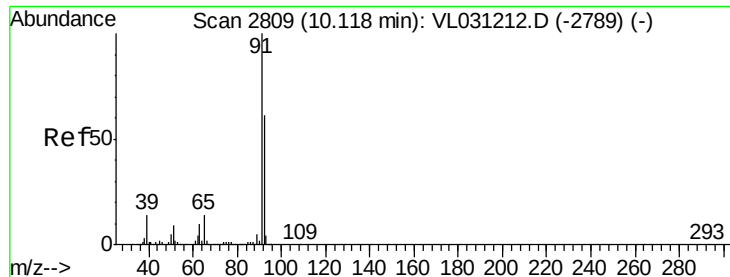
Tgt Ion: 43 Resp: 690788
 Ion Ratio Lower Upper
 43 100
 58 49.6 39.8 59.6
 98 0.1 0.0 0.0#



#52
 Tetrachloroethene
 Concen: 2.01 ppbv
 RT: 11.54 min Scan# 3252
 Delta R.T. -0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Tgt Ion: 164 Resp: 307068
 Ion Ratio Lower Upper
 164 100
 166 121.1 100.6 151.0
 129 107.1 82.9 124.3
 131 100.9 79.2 118.8





#53

Toluene

Concen: 2.00 ppbv

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

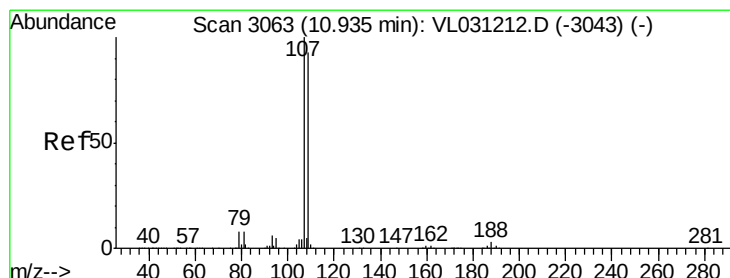
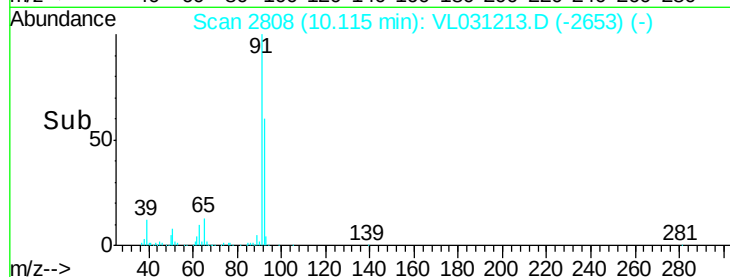
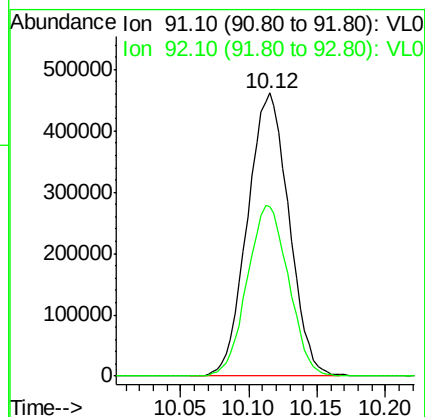
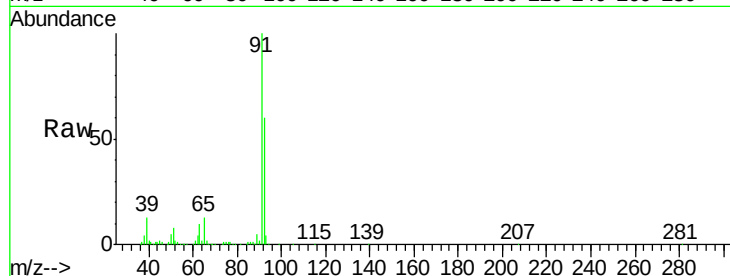
VSTDIC002

Tgt Ion: 91 Resp: 973314

Ion Ratio Lower Upper

91 100

92 60.5 49.1 73.7



#54

1,2-Dibromoethane

Concen: 1.98 ppbv

RT: 10.93 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VL031213.D

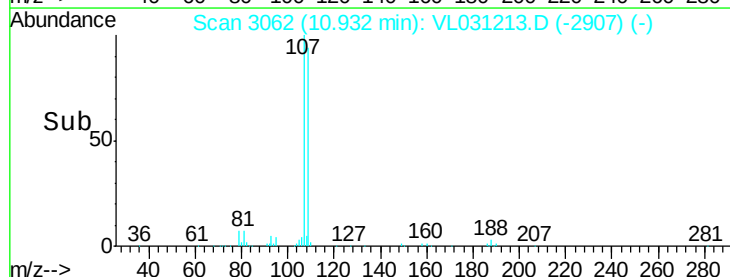
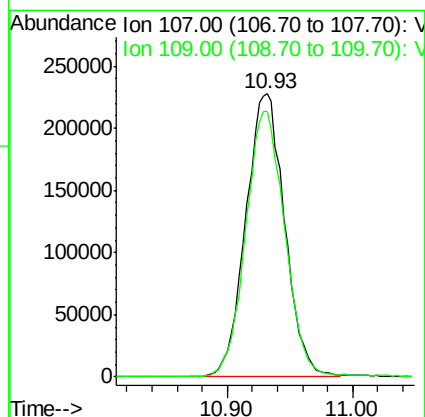
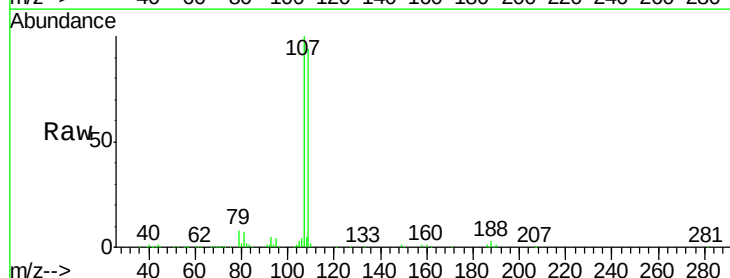
Acq: 13 Dec 2017 23:07

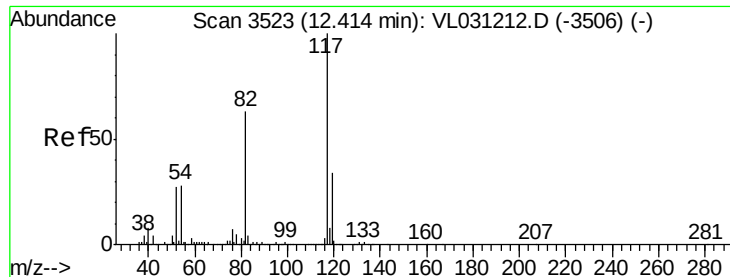
Tgt Ion: 107 Resp: 490805

Ion Ratio Lower Upper

107 100

109 93.8 74.7 112.1

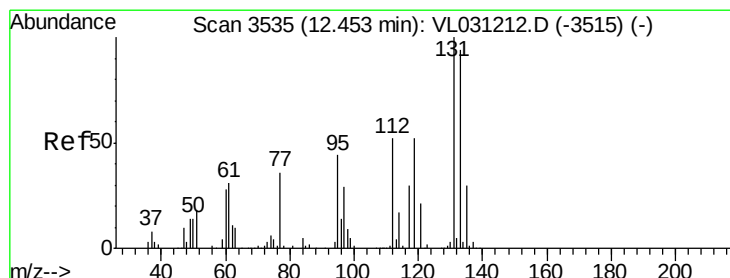
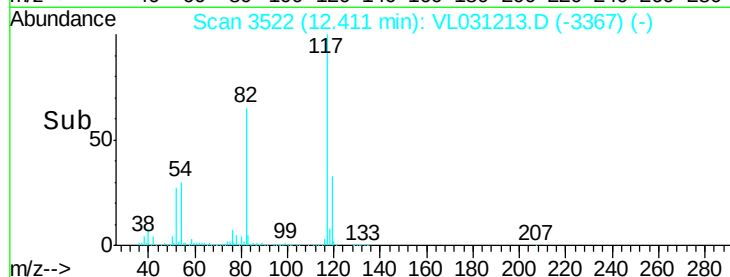
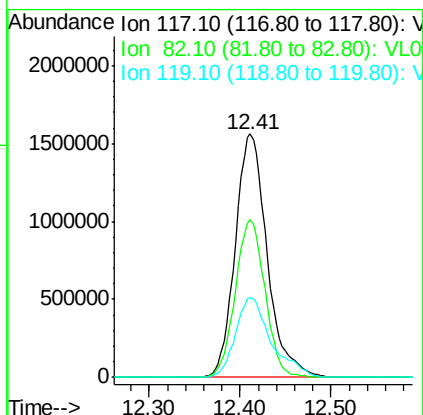
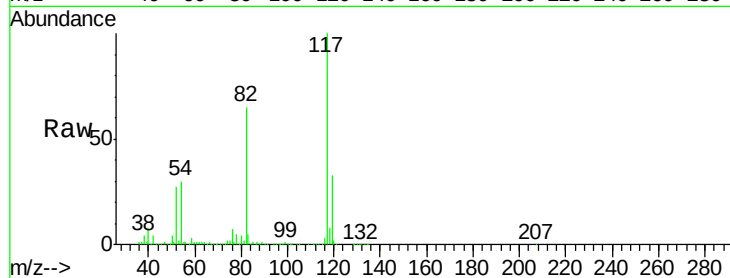




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

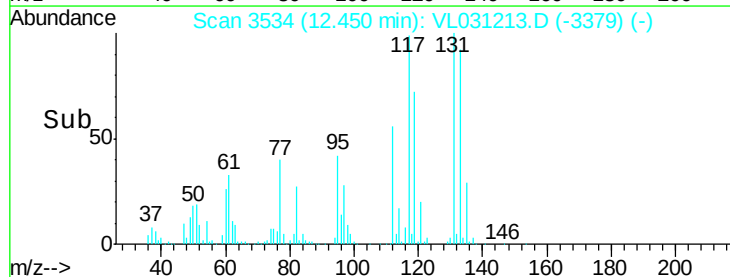
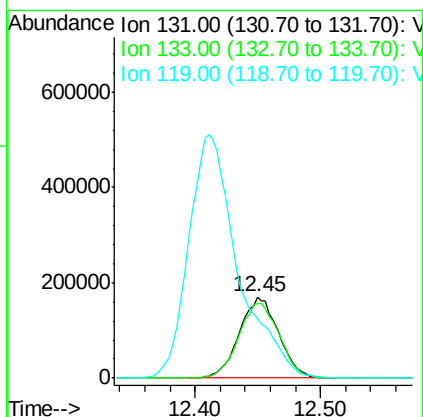
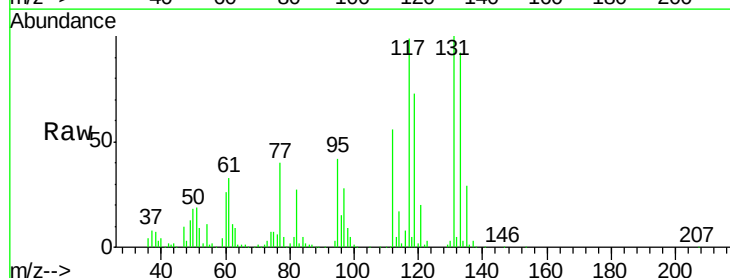
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

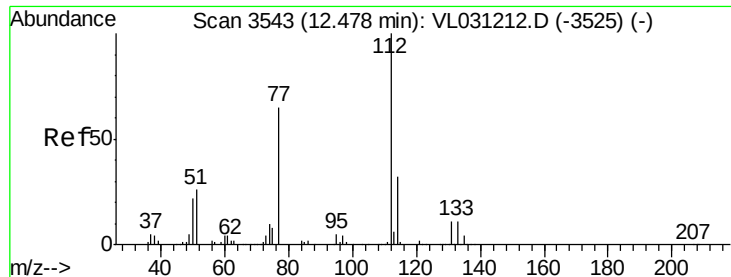
Tgt Ion:117 Resp: 3805142
Ion Ratio Lower Upper
117 100
82 60.4 48.1 72.1
119 36.7 23.1 34.7#



#56
1,1,1,2-Tetrachloroethane
Concen: 2.38 ppbv
RT: 12.45 min Scan# 3534
Delta R.T. -0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Tgt Ion:131 Resp: 370749
Ion Ratio Lower Upper
131 100
133 95.9 76.1 114.1
119 378.1 108.5 162.7#

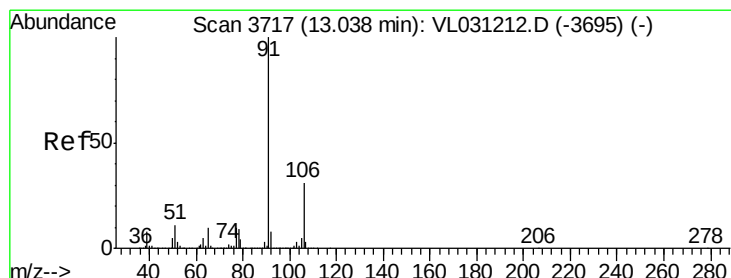
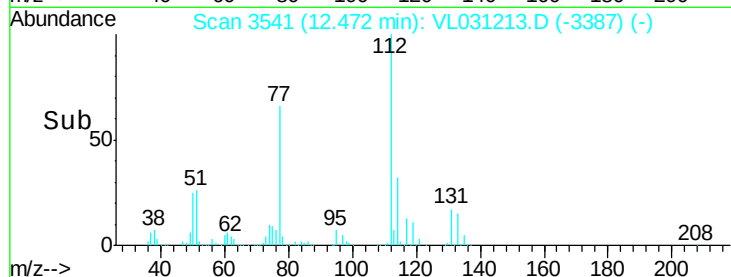
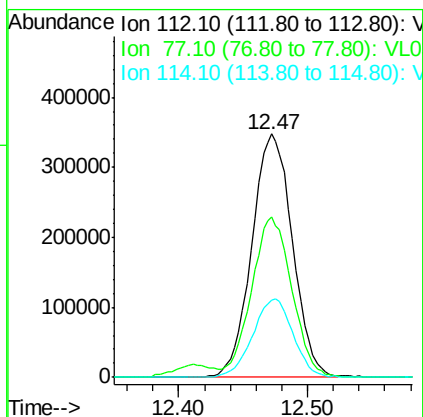
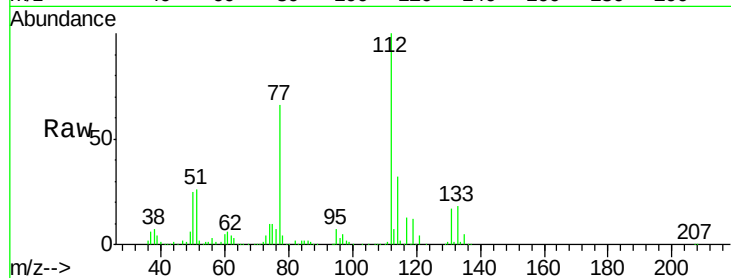




#57
Chlorobenzene
Concen: 2.05 ppbv
RT: 12.47 min Scan# 3541
Delta R.T. -0.01 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

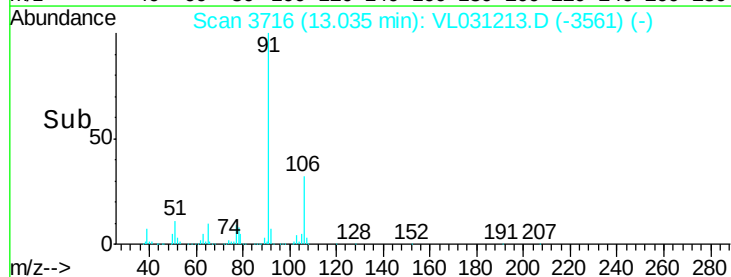
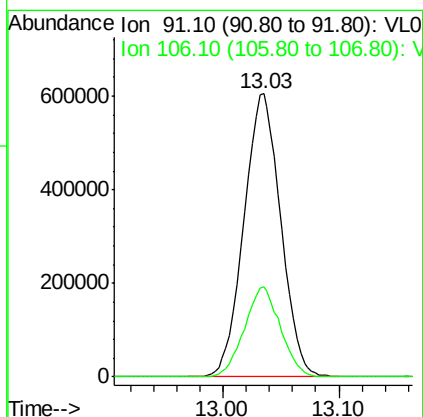
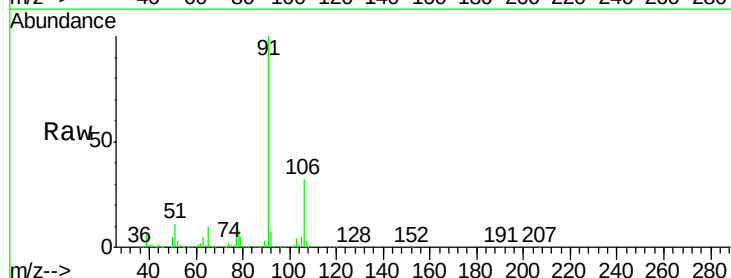
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

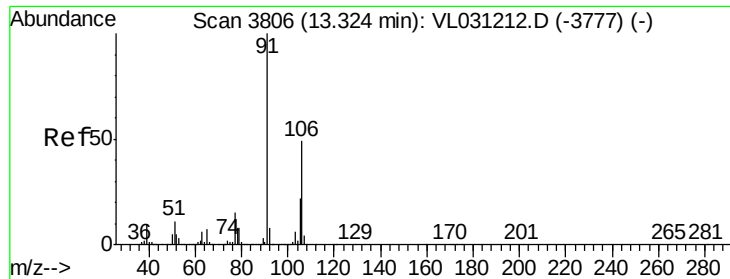
Tgt Ion: 112 Resp: 761583
Ion Ratio Lower Upper
112 100
77 65.2 52.9 79.3
114 31.8 29.1 35.5



#58
Ethyl Benzene
Concen: 2.05 ppbv
RT: 13.03 min Scan# 3716
Delta R.T. -0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Tgt Ion: 91 Resp: 1335036
Ion Ratio Lower Upper
91 100
106 31.6 25.1 37.7

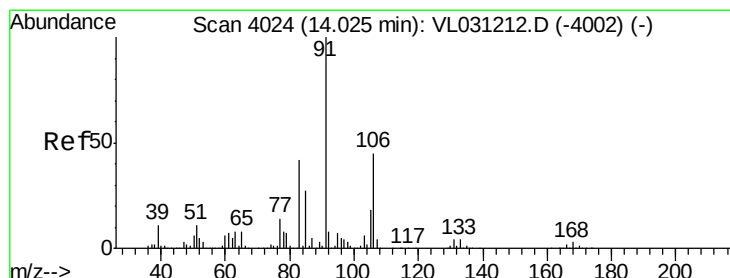
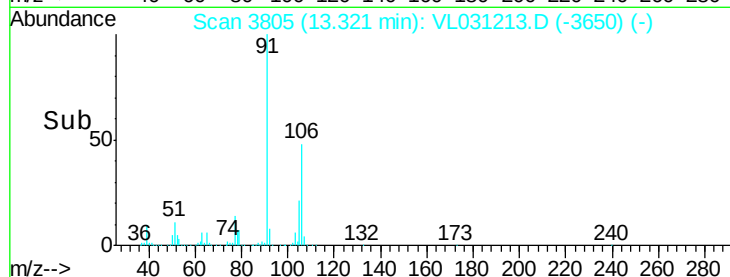
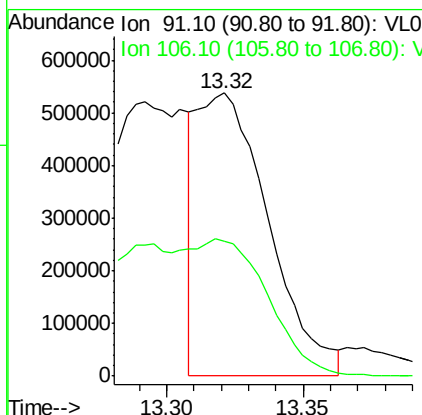
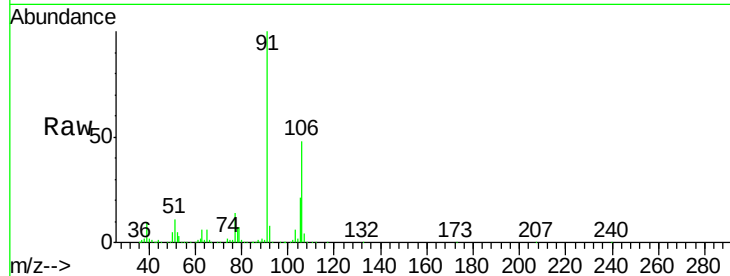




#59
m/p-Xylene
Concen: 1.76 ppbv
RT: 13.32 min Scan# 3805
Delta R.T. -0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

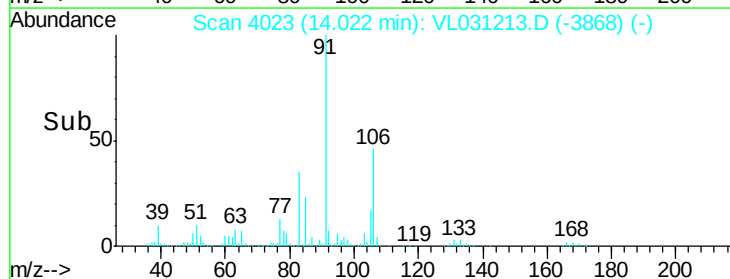
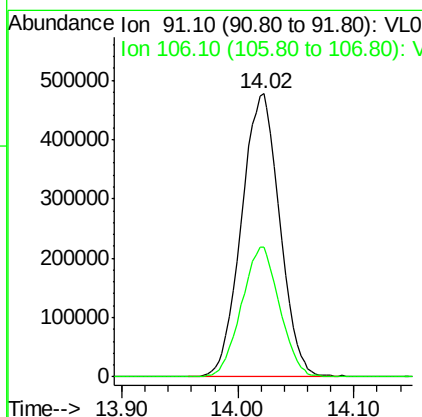
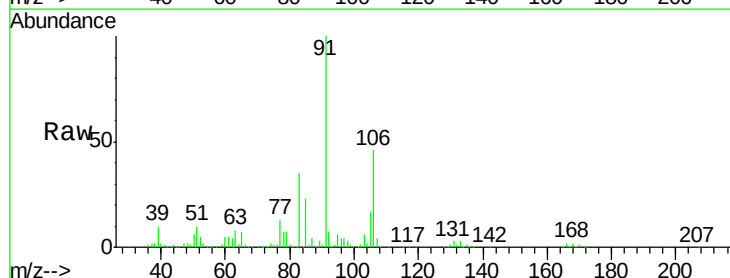
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

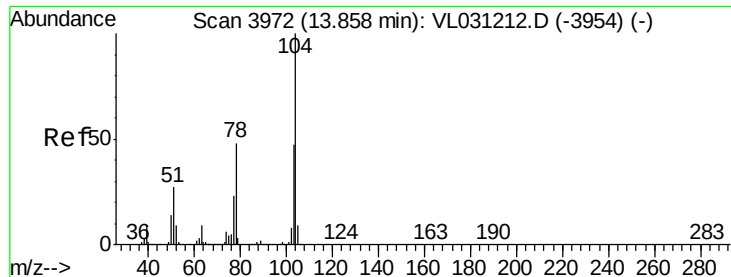
Tgt Ion: 91 Resp: 968948
Ion Ratio Lower Upper
91 100
106 106.9 38.5 57.7#



#60
o-Xylene
Concen: 2.00 ppbv
RT: 14.02 min Scan# 4023
Delta R.T. -0.00 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Tgt Ion: 91 Resp: 1093558
Ion Ratio Lower Upper
91 100
106 45.6 22.7 68.1





#61

Styrene

Concen: 2.22 ppbv

RT: 13.85 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

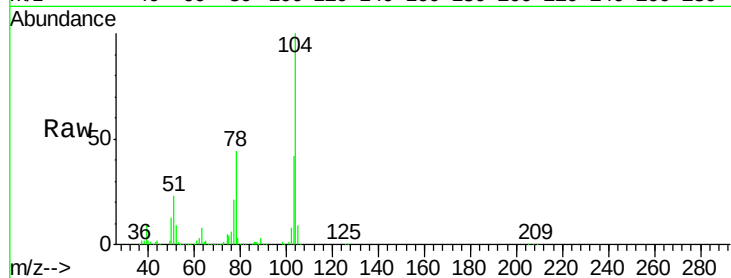
Tgt Ion:104 Resp: 305564

Ion Ratio Lower Upper

104 100

78 47.9 39.1 58.7

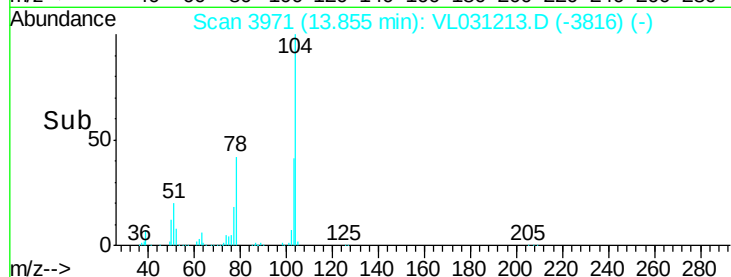
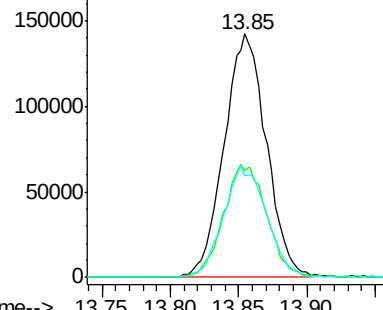
103 46.7 37.3 55.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 2.18 ppbv

RT: 15.00 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL031213.D

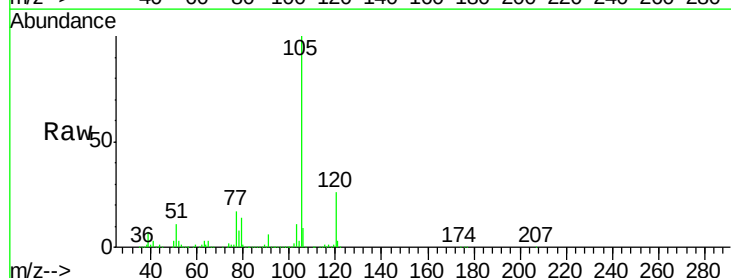
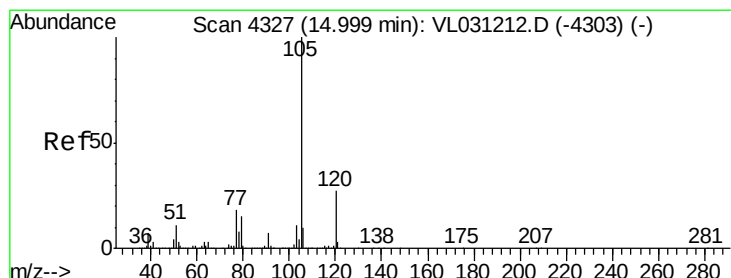
Acq: 13 Dec 2017 23:07

Tgt Ion:105 Resp: 1426027

Ion Ratio Lower Upper

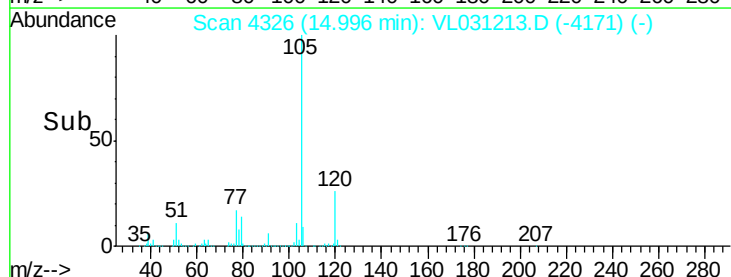
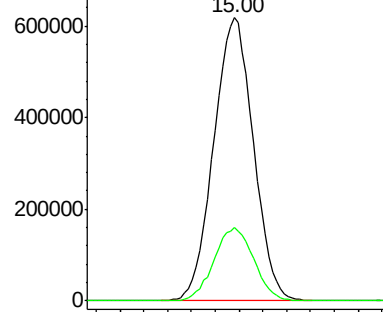
105 100

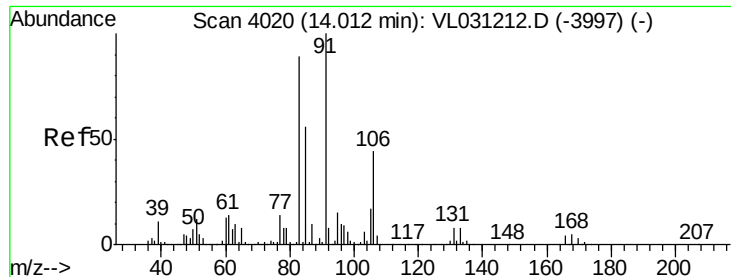
120 26.1 21.0 31.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

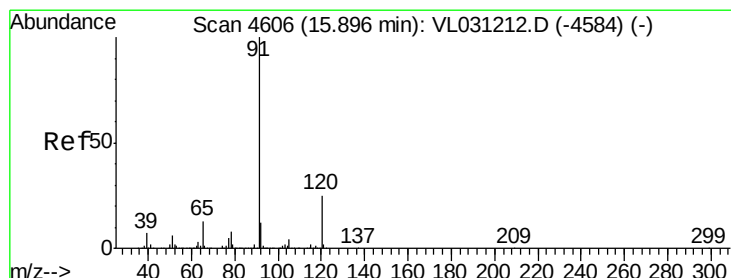
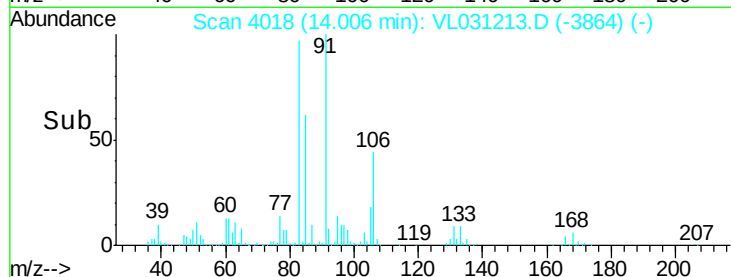
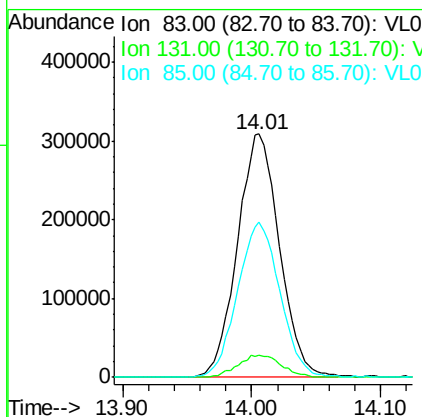
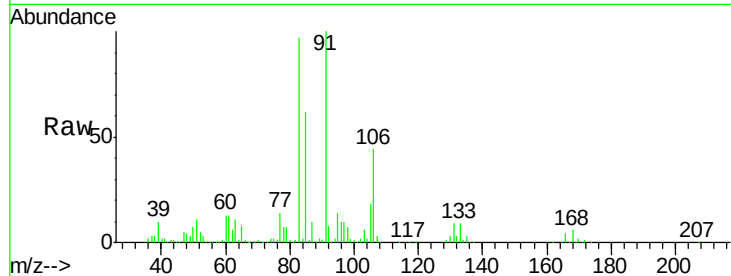




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.64 ppbv
 RT: 14.01 min Scan# 4018
 Delta R.T. -0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

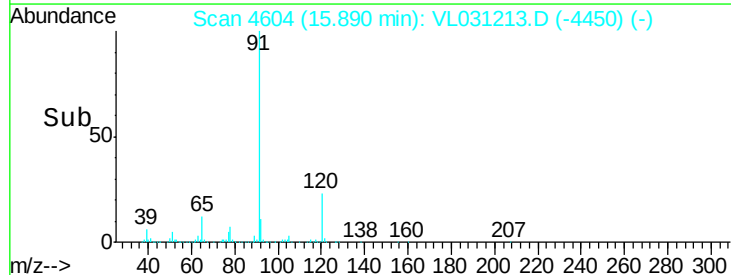
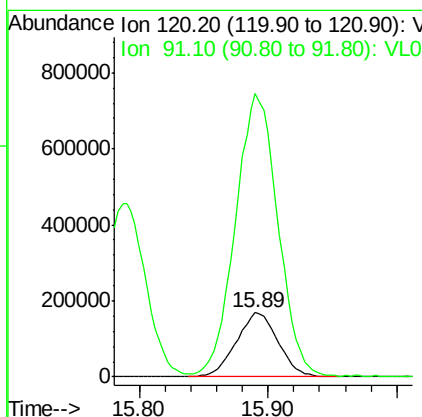
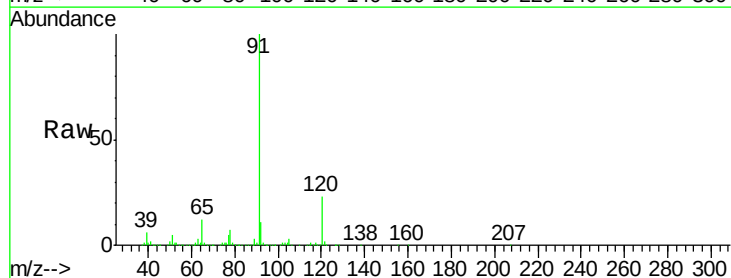
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

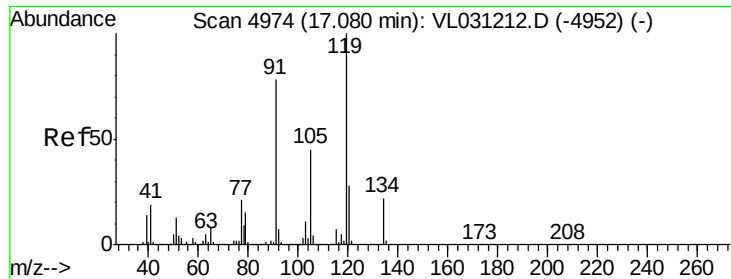
Tgt Ion: 83 Resp: 699025
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.8 14.3
 85 64.6 32.1 96.5



#64
 n-propylbenzene
 Concen: 2.13 ppbv
 RT: 15.89 min Scan# 4604
 Delta R.T. -0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Tgt Ion: 120 Resp: 380802
 Ion Ratio Lower Upper
 120 100
 91 450.4 352.1 528.1

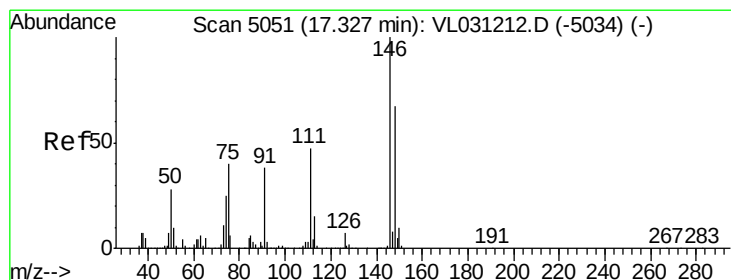
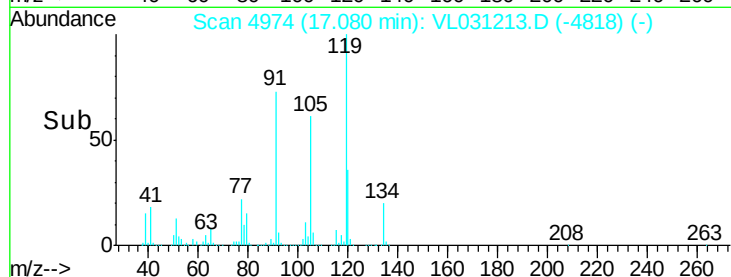
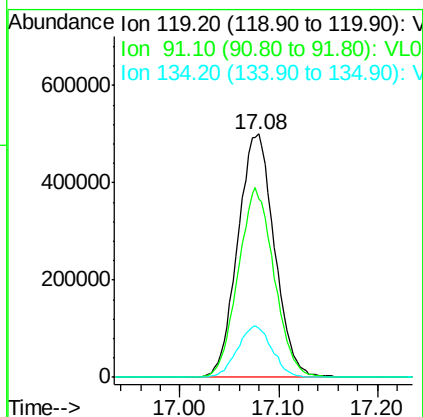
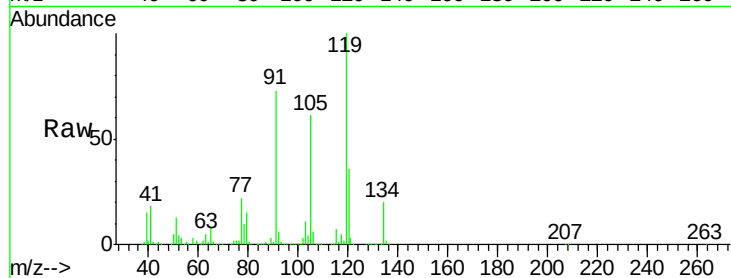




#65
 tert-Butylbenzene
 Concen: 2.23 ppbv
 RT: 17.08 min Scan# 4974
 Delta R.T. 0.00 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

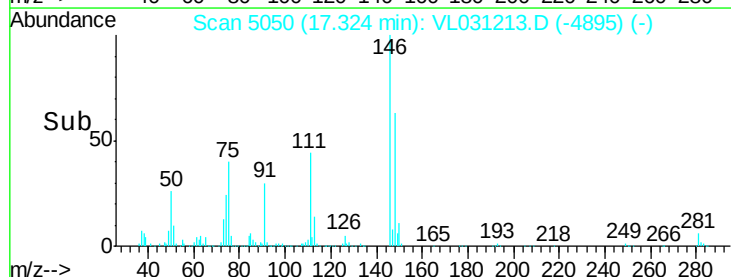
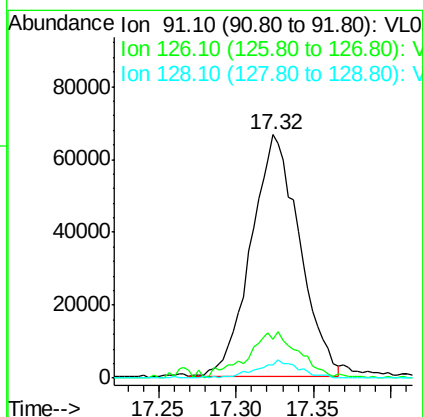
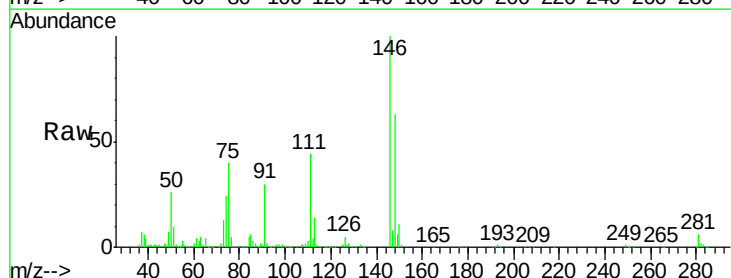
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

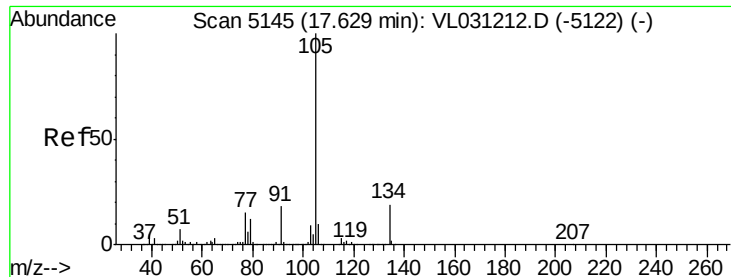
Tgt Ion: 119 Resp: 1283372
 Ion Ratio Lower Upper
 119 100
 91 76.7 63.3 94.9
 134 19.9 16.1 24.1



#66
 Benzyl Chloride
 Concen: 2.92 ppbv
 RT: 17.32 min Scan# 5050
 Delta R.T. -0.00 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Tgt Ion: 91 Resp: 143485
 Ion Ratio Lower Upper
 91 100
 126 22.7 15.2 22.8
 128 6.7 4.9 7.3





#67

sec-Butylbenzene

Concen: 2.01 ppbv

RT: 17.63 min Scan# 5144

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

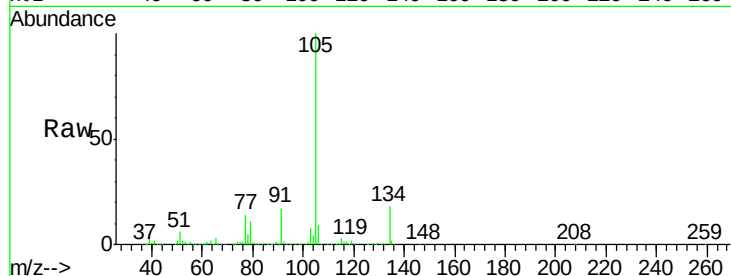
VSTDIC002

Tgt Ion:105 Resp: 1744871

Ion Ratio Lower Upper

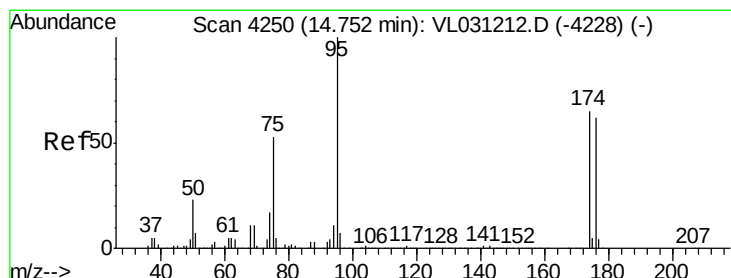
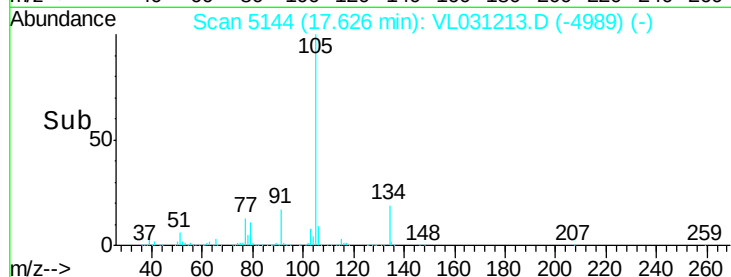
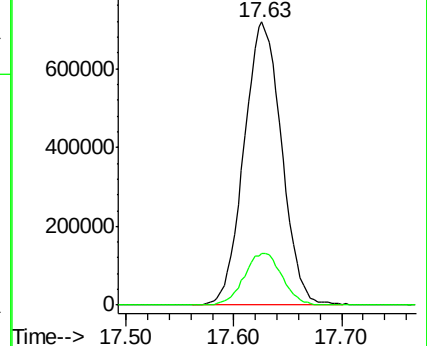
105 100

134 18.5 15.3 22.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.12 ppbv

RT: 14.75 min Scan# 4249

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

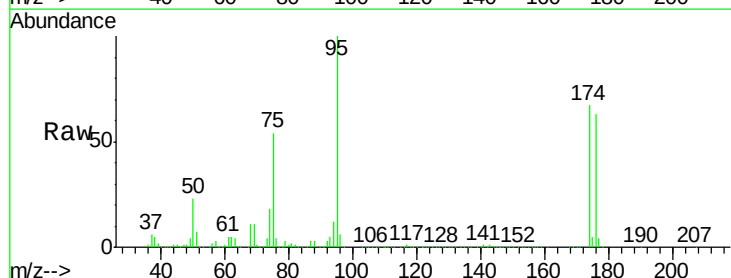
Tgt Ion: 95 Resp: 2681505

Ion Ratio Lower Upper

95 100

174 65.9 52.5 78.7

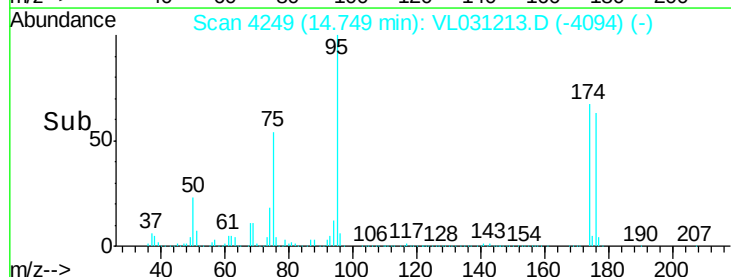
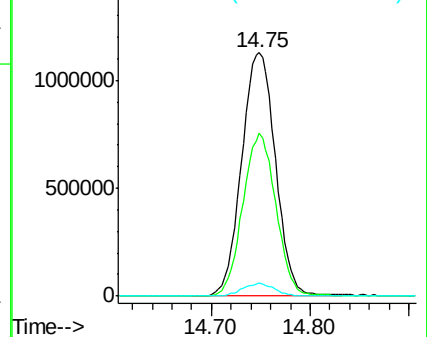
175 5.0 4.1 6.1

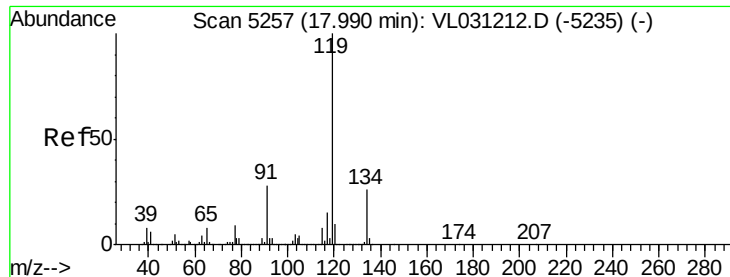


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

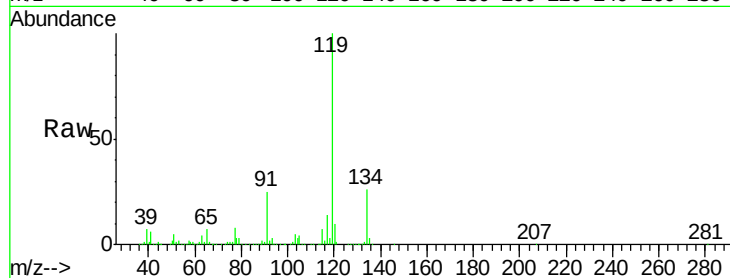




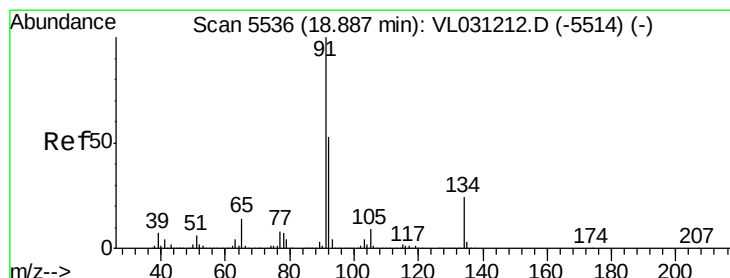
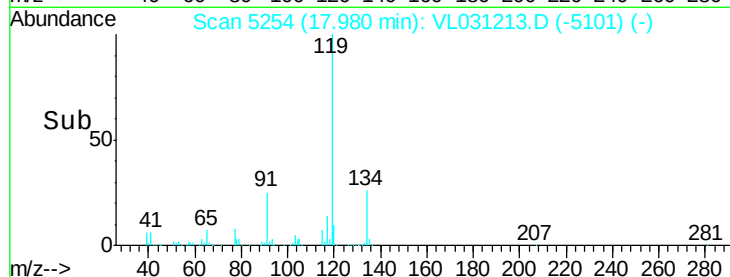
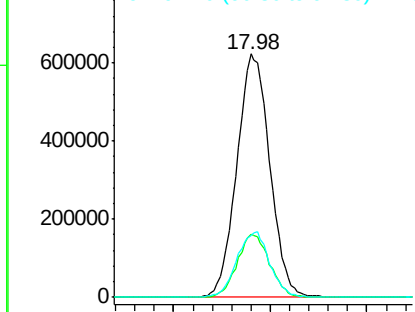
#69
p-Isopropyltoluene
Concen: 2.20 ppbv
RT: 17.98 min Scan# 5254
Delta R.T. -0.01 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 119 Resp: 1475270
Ion Ratio Lower Upper
119 100
134 25.5 20.7 31.1
91 26.9 22.3 33.5

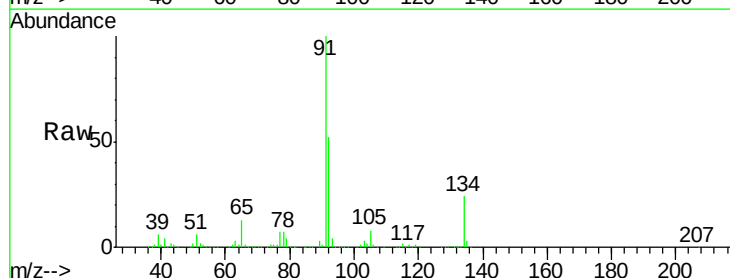


Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): V

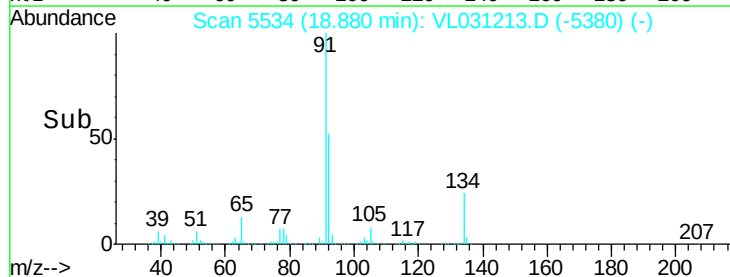
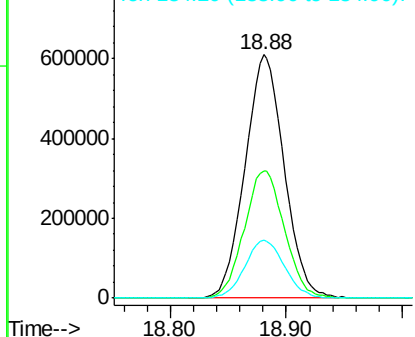


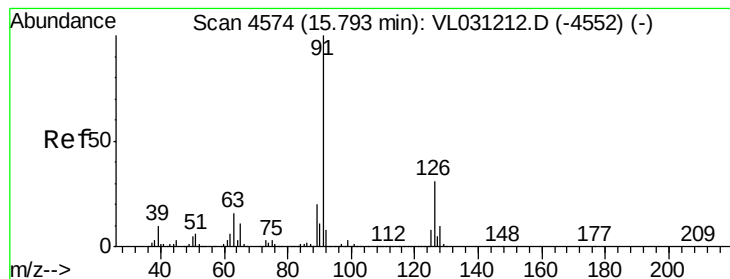
#70
n-Butylbenzene
Concen: 1.93 ppbv
RT: 18.88 min Scan# 5534
Delta R.T. -0.01 min
Lab File: VL031213.D
Acq: 13 Dec 2017 23:07

Tgt Ion: 91 Resp: 1425409
Ion Ratio Lower Upper
91 100
92 53.8 43.4 65.2
134 24.3 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: 2.00 ppbv

RT: 15.79 min Scan# 4572

Delta R.T. -0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

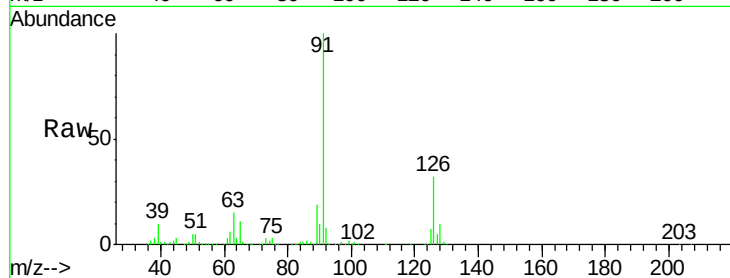
VSTDIC002

Tgt Ion: 91 Resp: 1053590

Ion Ratio Lower Upper

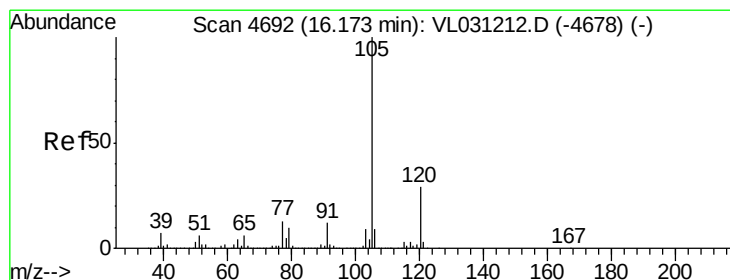
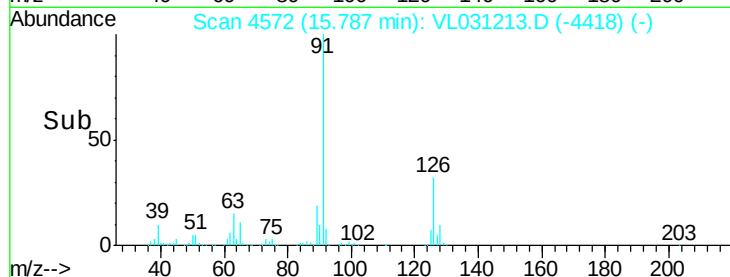
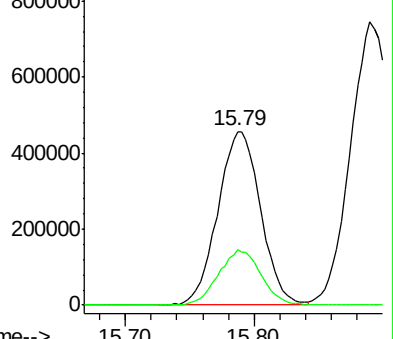
91 100

126 31.6 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: 2.15 ppbv

RT: 16.17 min Scan# 4691

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Tgt Ion: 105 Resp: 1187181

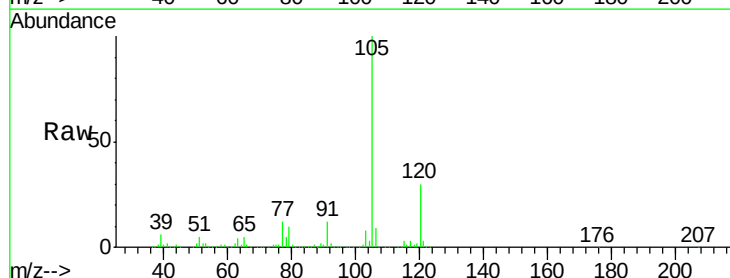
Ion Ratio Lower Upper

105 100

120 30.0 24.2 36.2

91 11.9 9.8 14.8

77 12.9 10.5 15.7

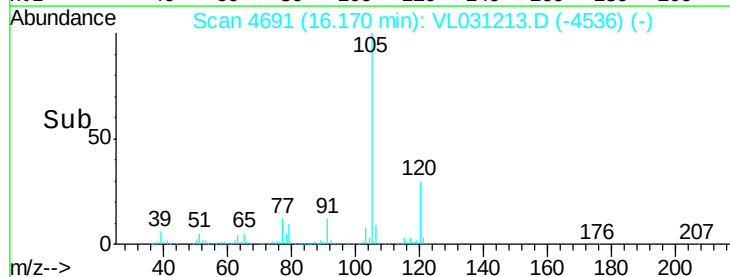
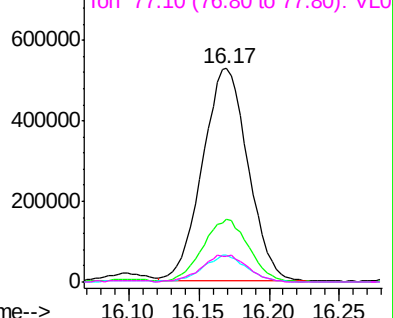


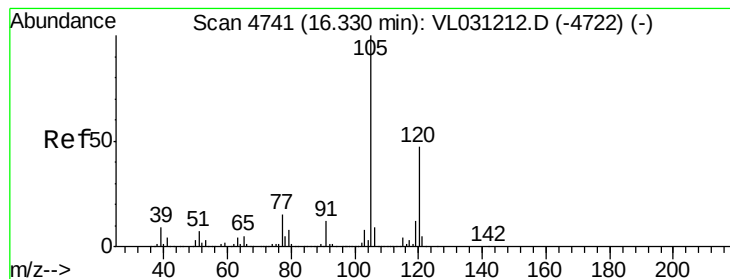
Abundance Ion 105.10 (104.80 to 105.80): V

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: 2.06 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. -0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

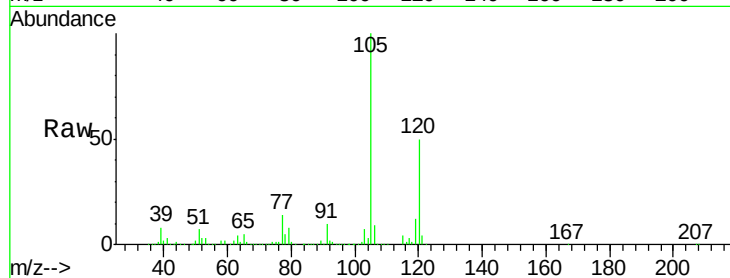
VSTDIC002

Tgt Ion:105 Resp: 1051493

Ion Ratio Lower Upper

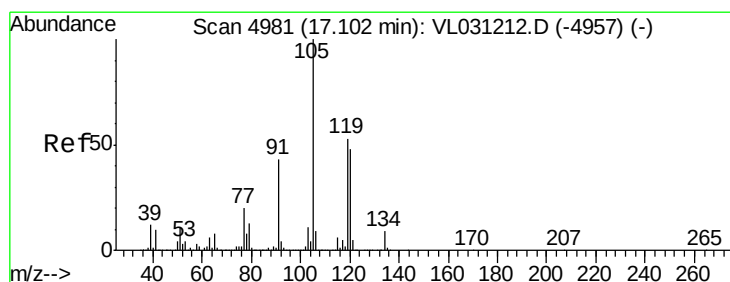
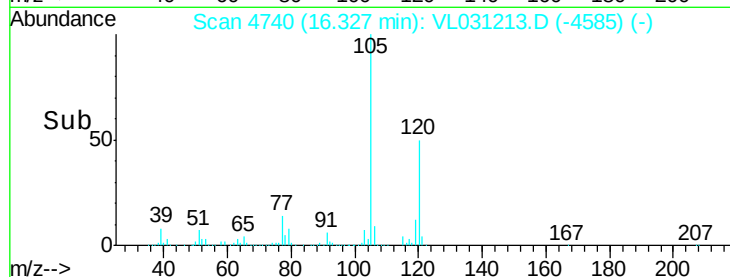
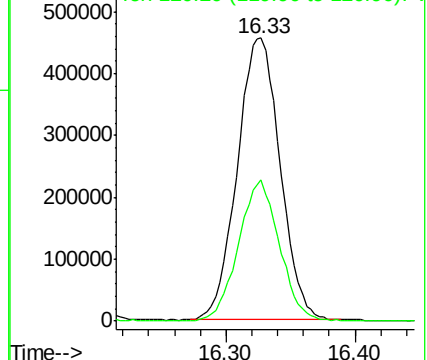
105 100

120 49.7 37.8 56.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.99 ppbv

RT: 17.10 min Scan# 4979

Delta R.T. -0.01 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Tgt Ion:105 Resp: 1117556

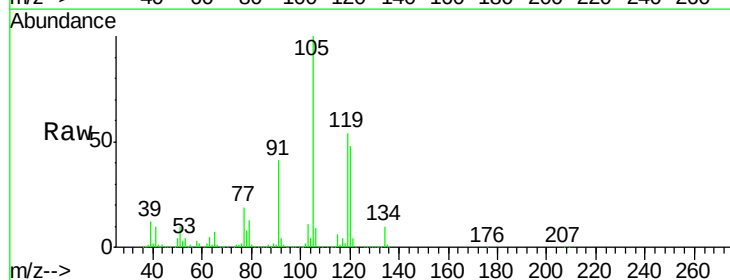
Ion Ratio Lower Upper

105 100

120 48.2 38.6 58.0

91 41.0 34.2 51.4

77 18.7 16.1 24.1

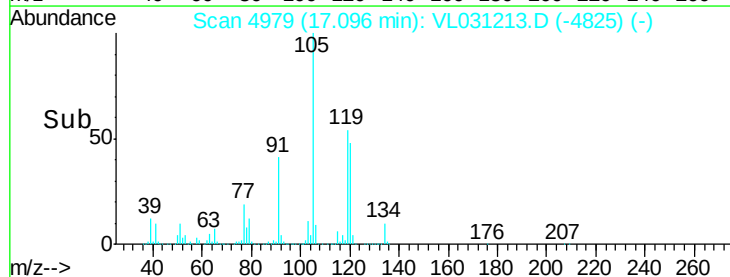
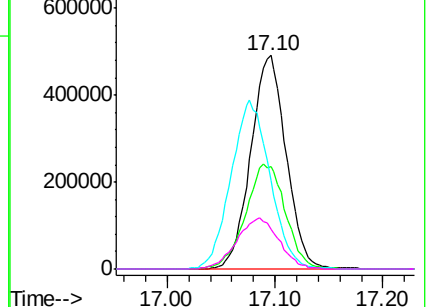


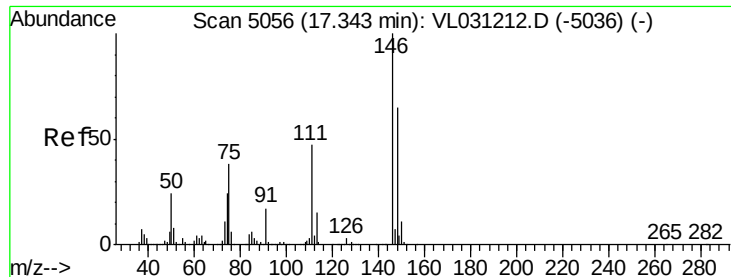
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

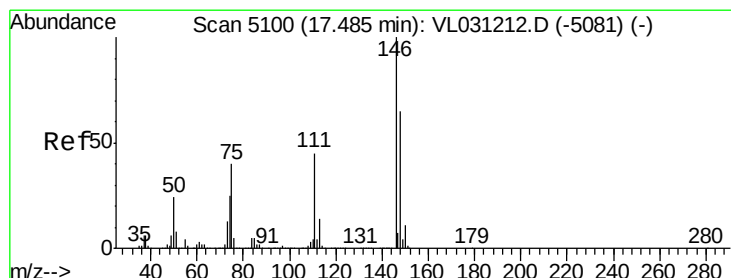
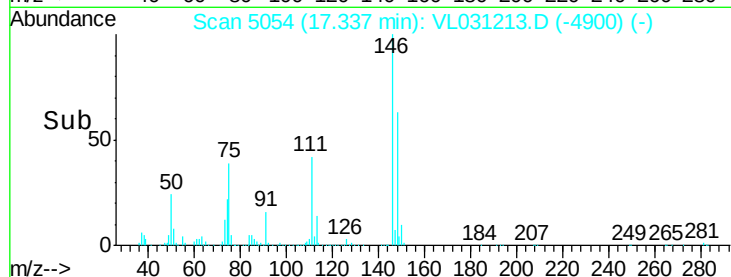
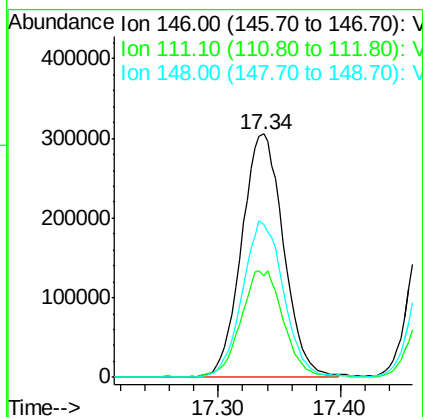
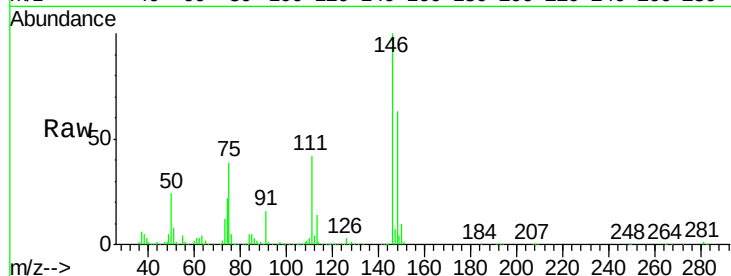




#75
 1,3-Dichlorobenzene
 Concen: 2.04 ppbv
 RT: 17.34 min Scan# 5054
 Delta R.T. -0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

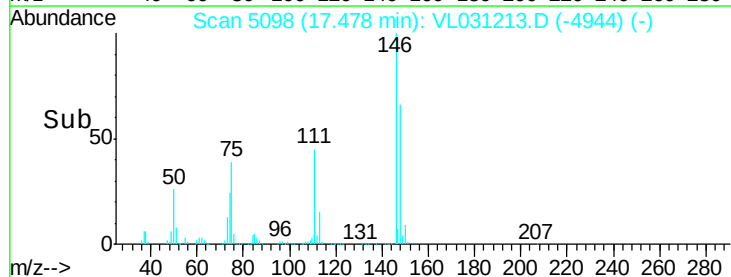
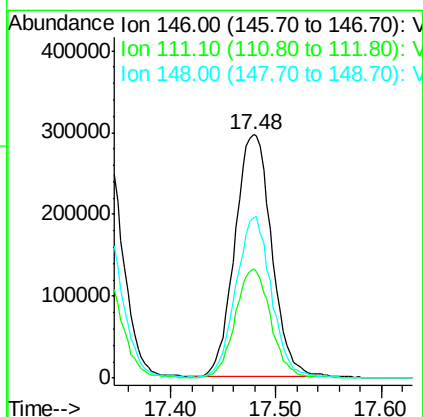
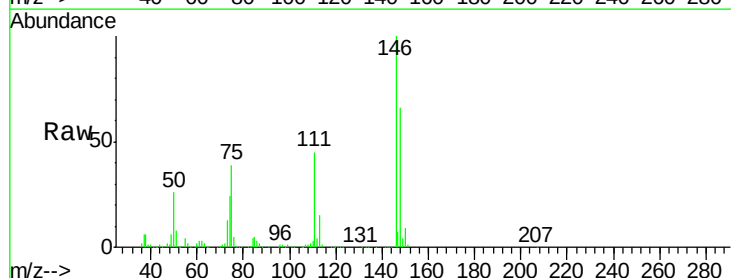
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

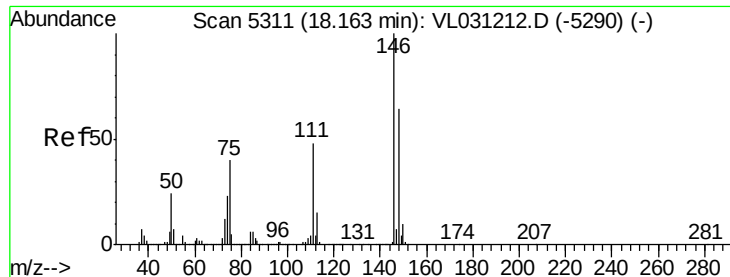
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.7	68.1
148	63.5	32.0	96.2



#76
 1,4-Dichlorobenzene
 Concen: 2.00 ppbv
 RT: 17.48 min Scan# 5098
 Delta R.T. -0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.1	66.1
148	64.9	32.0	96.0

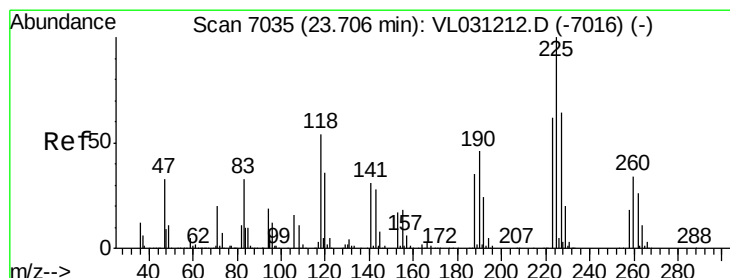
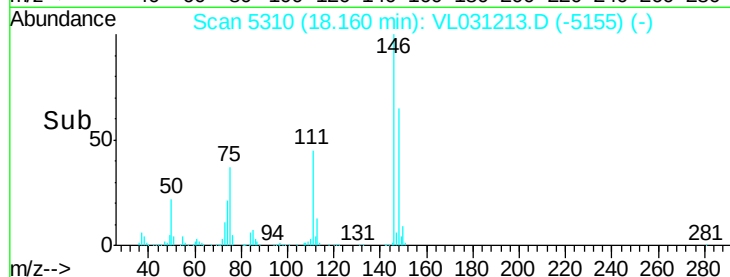
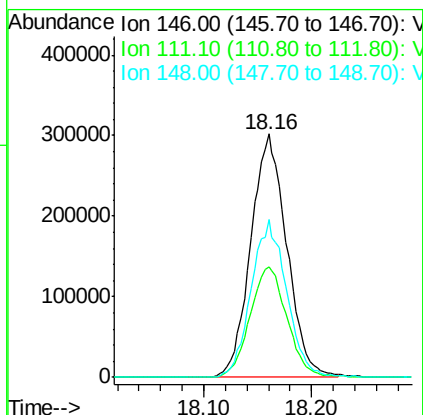
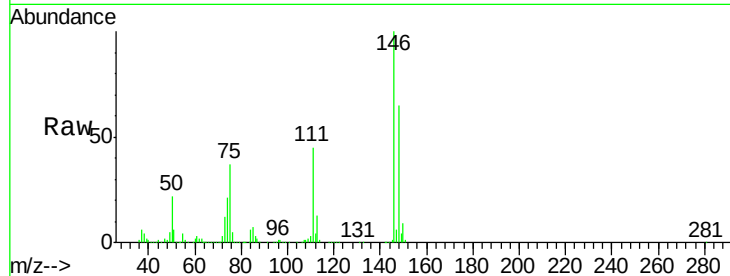




#77
 1,2-Dichlorobenzene
 Concen: 1.99 ppbv
 RT: 18.16 min Scan# 5310
 Delta R.T. -0.00 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

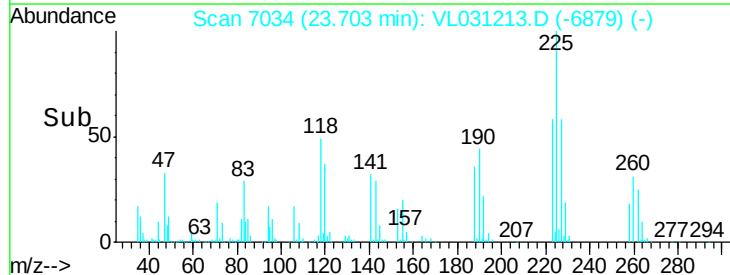
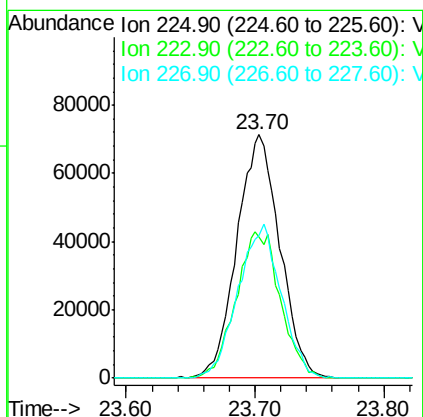
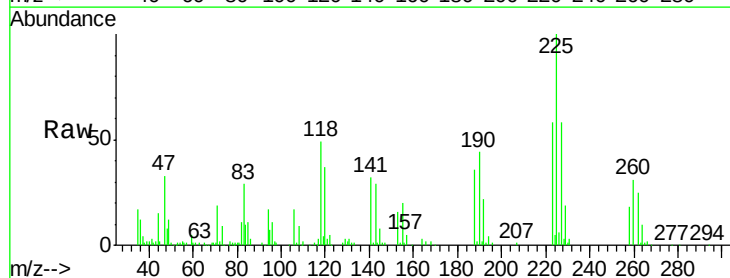
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

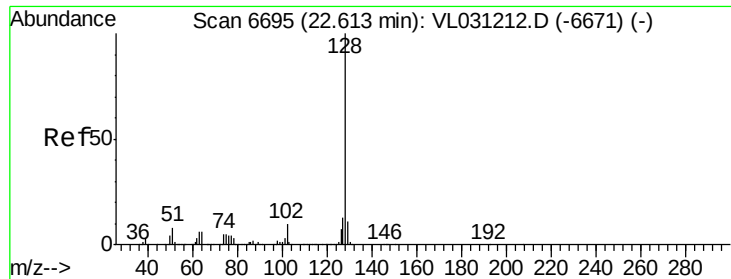
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.9	23.3	69.8
148	64.3	31.9	95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.46 ppbv
 RT: 23.70 min Scan# 7034
 Delta R.T. -0.00 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.4	75.6
227	63.5	51.3	76.9





#79

Naphthalene

Concen: 2.43 ppbv

RT: 22.61 min Scan# 6695

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

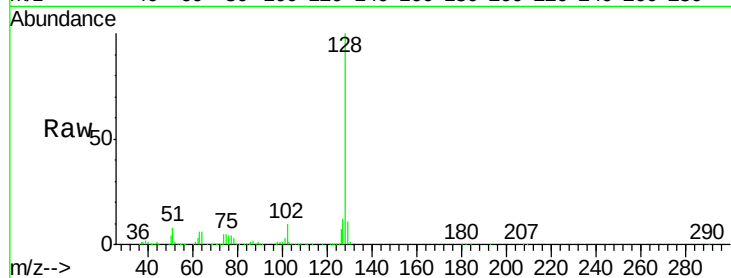
Tgt Ion:128 Resp: 925328

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

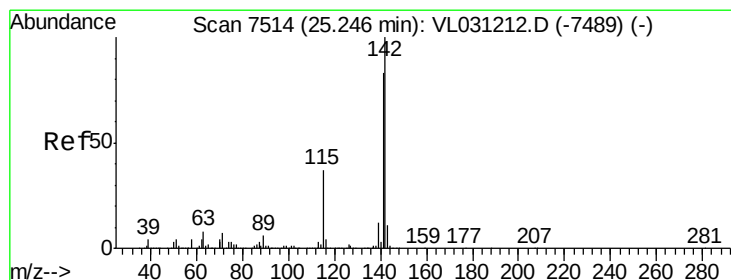
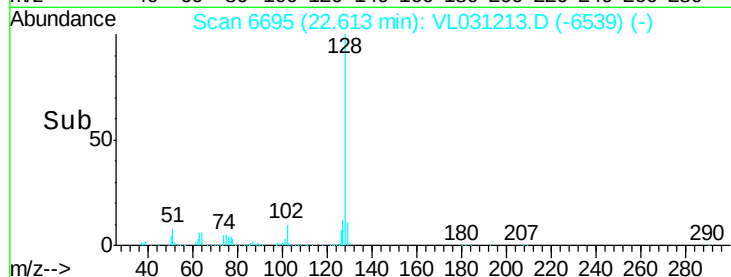
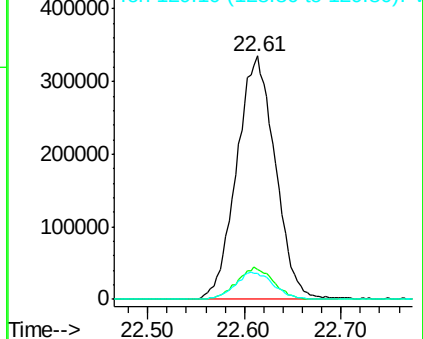
129 10.7 8.9 13.3



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: 3.02 ppbv

RT: 25.25 min Scan# 7514

Delta R.T. 0.00 min

Lab File: VL031213.D

Acq: 13 Dec 2017 23:07

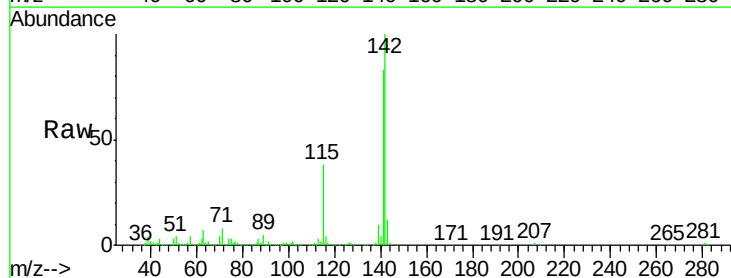
Tgt Ion:142 Resp: 339042

Ion Ratio Lower Upper

142 100

141 82.5 66.8 100.2

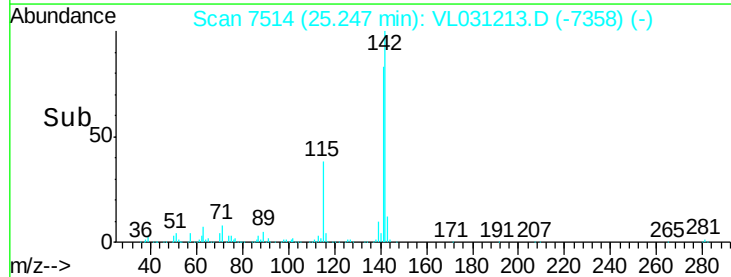
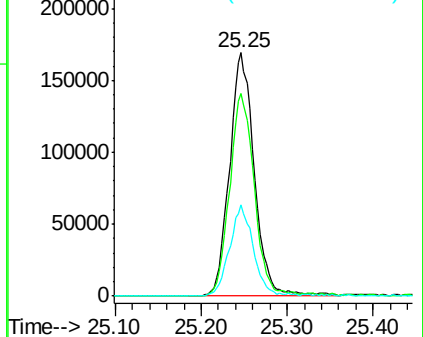
115 36.1 29.7 44.5

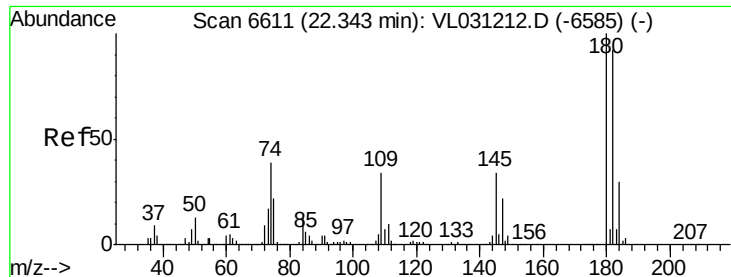


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 2.29 ppbv
 RT: 22.34 min Scan# 6609
 Delta R.T. -0.01 min
 Lab File: VL031213.D
 Acq: 13 Dec 2017 23:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.9	113.9
184	29.8	24.2	36.2

