

Data File : VL031214.D

Acq On : 13 Dec 2017 23:45

Operator : SY/AP

Sample : VSTDIC001

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Quant Time: Dec 14 03:42:35 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	2346824	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	5304461	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	4553144	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3219547	9.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.18	85	152916	0.64	ppbv	96
3) Chlorodifluoromethane	3.12	51	201731	0.63	ppbv	100
4) Chloromethane	3.27	50	106817	0.89	ppbv	94
5) Vinyl Chloride	3.40	62	104456	0.79	ppbv	98
6) Bromomethane	3.63	94	65540	0.82	ppbv	95
7) Chloroethane	3.71	64	39932	0.85	ppbv	93
8) Dichlorotetrafluoroethane	3.32	85	237758	0.85	ppbv	99
9) Propene	3.13	41	94699	0.71	ppbv	100
10) Heptane	8.41	43	393984	0.99	ppbv	99
11) Trichlorofluoromethane	4.13	101	251408	0.89	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	235480	1.41	ppbv	99
13) Ethanol	3.77	45	32994	1.29	ppbv	100
14) Bromoethene	3.91	108	74814	0.87	ppbv	98
15) Acetone	4.03	43	255318	1.08	ppbv	95
16) 1,3-Butadiene	3.47	39	101661	0.92	ppbv	98
17) tert-Butyl alcohol	4.50	59	130551	1.14	ppbv #	94
18) 1,1-Dichloroethene	4.48	96	78620	0.97	ppbv	92
19) Isopropyl Alcohol	4.16	45	143687	1.04	ppbv	90
20) Methylene Chloride	4.54	84	80227	0.98	ppbv	98
21) Allyl Chloride	4.61	41	137520	1.17	ppbv	98
22) trans-1,2-Dichloroethene	5.10	96	127310	1.25	ppbv	100
23) Vinyl Acetate	5.30	43	587654	1.40	ppbv	99
24) 1,1-Dichloroethane	5.23	63	385459	1.07	ppbv	99
25) Ethyl Acetate	5.92	43	671389	1.15	ppbv	99
26) Hexane	5.93	57	321751	1.13	ppbv	98
27) Carbon Disulfide	4.76	76	295611	1.48	ppbv #	76
28) Methyl tert-Butyl Ether	5.26	73	415600	1.32	ppbv	100
29) Chloroform	5.99	83	427287	1.05	ppbv	100
30) Cyclohexane	7.41	84	240599	1.06	ppbv #	74
31) cis-1,2-Dichloroethene	5.78	61	286635	1.05	ppbv	93
32) 1,1,1-Trichloroethane	6.77	97	407024	1.20	ppbv	100
34) 2-Butanone	5.48	43	441842	1.02	ppbv	99
35) Carbon Tetrachloride	7.29	117	400418	1.07	ppbv	97
36) Benzene	7.16	78	602730	0.99	ppbv	98
37) 1,2-Dichloroethane	6.57	62	329813	0.92	ppbv	98
38) Trichloroethene	8.12	130	224596	0.97	ppbv	98
39) 1,2-Dichloropropane	7.89	63	210855	0.91	ppbv	96
40) 1,4-Dioxane	8.14	88	76563	0.83	ppbv #	83
41) Tetrahydrofuran	6.31	42	236581	1.04	ppbv	98
42) Bromodichloromethane	8.08	83	405179	0.95	ppbv	99
43) Methyl Methacrylate	8.30	69	206503	0.97	ppbv	100

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Instrument :
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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

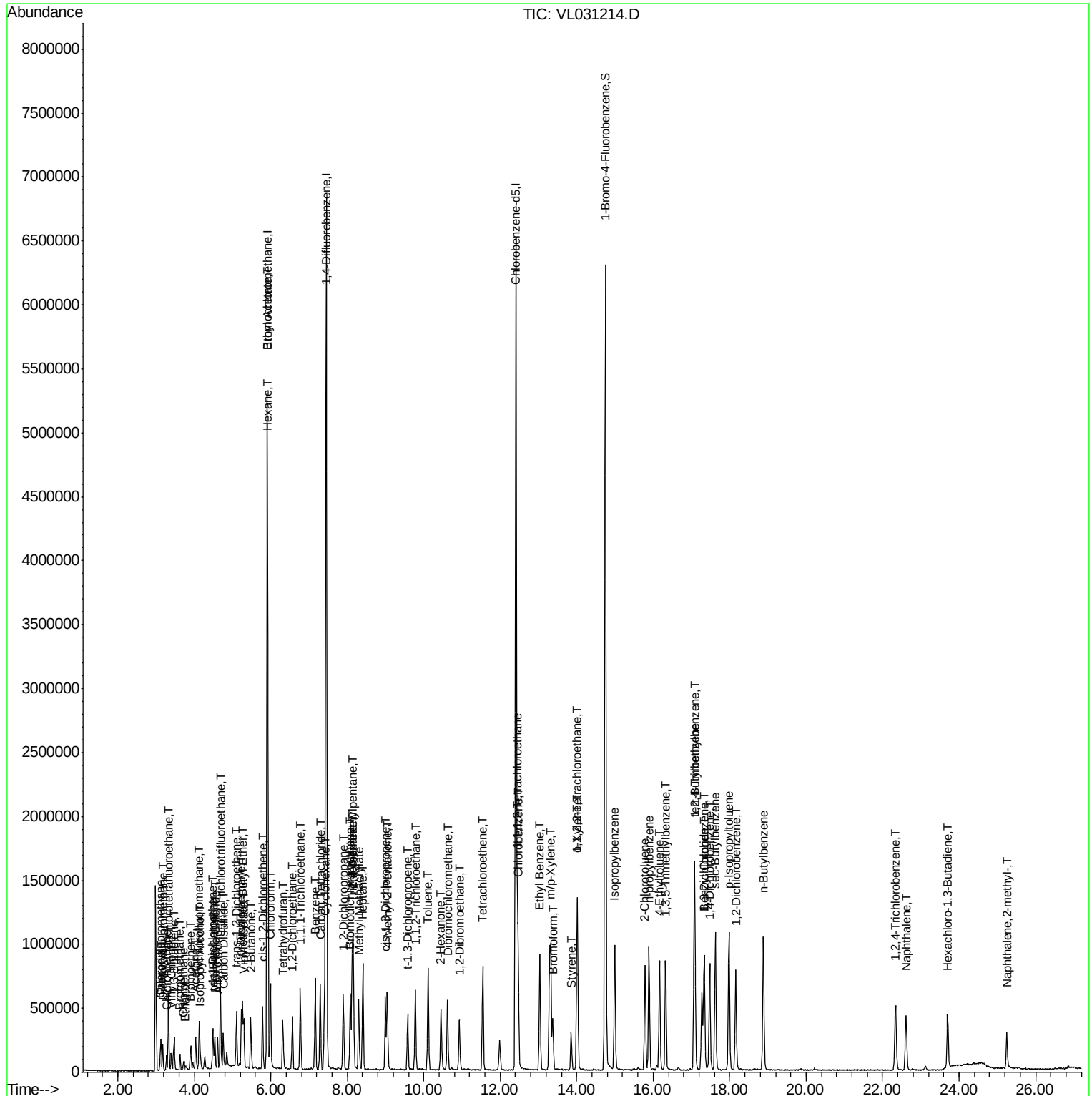
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	980883	0.97	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	263146	1.00	ppbv	96
46) cis-1,3-Dichloropropene	9.00	75	341724	0.98	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	223329	0.91	ppbv	95
48) Dibromochloromethane	10.62	129	335266	1.01	ppbv	100
49) Bromoform	13.37	173	230309	0.92	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	505837	0.92	ppbv	100
51) 2-Hexanone	10.45	43	456366	0.88	ppbv #	98
52) Tetrachloroethene	11.55	164	208816	0.97	ppbv	95
53) Toluene	10.11	91	668029	0.97	ppbv	97
54) 1,2-Dibromoethane	10.93	107	326425	0.93	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.45	131	231849	1.24	ppbv #	1
57) Chlorobenzene	12.47	112	489064	1.10	ppbv	97
58) Ethyl Benzene	13.03	91	857730	1.10	ppbv	99
59) m/p-Xylene	13.32	91	633697	0.96	ppbv #	29
60) o-Xylene	14.02	91	687075	1.05	ppbv	100
61) Styrene	13.85	104	189060	1.15	ppbv	99
62) Isopropylbenzene	15.00	105	901523	1.15	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	442335	0.87	ppbv	99
64) n-propylbenzene	15.89	120	238350	1.11	ppbv	95
65) tert-Butylbenzene	17.08	119	812378	1.18	ppbv	98
66) Benzyl Chloride	17.33	91	79460	1.35	ppbv #	94
67) sec-Butylbenzene	17.63	105	1110498	1.07	ppbv	99
69) p-Isopropyltoluene	17.98	119	921311	1.15	ppbv	100
70) n-Butylbenzene	18.88	91	892777	1.01	ppbv	99
71) 2-Chlorotoluene	15.79	91	665926	1.05	ppbv	99
72) 4-Ethyltoluene	16.17	105	742189	1.12	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	664144	1.09	ppbv	95
74) 1,2,4-Trimethylbenzene	17.09	105	719730	1.07	ppbv #	89
75) 1,3-Dichlorobenzene	17.34	146	451087	1.06	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	446624	1.04	ppbv	97
77) 1,2-Dichlorobenzene	18.16	146	433187	1.03	ppbv	99
78) Hexachloro-1,3-Butadiene	23.71	225	97083	1.21	ppbv	99
79) Naphthalene	22.61	128	550270	1.21	ppbv	97
80) Naphthalene,2-methyl-	25.25	142	178432	1.33	ppbv	97
81) 1,2,4-Trichlorobenzene	22.34	180	255582	1.12	ppbv	100

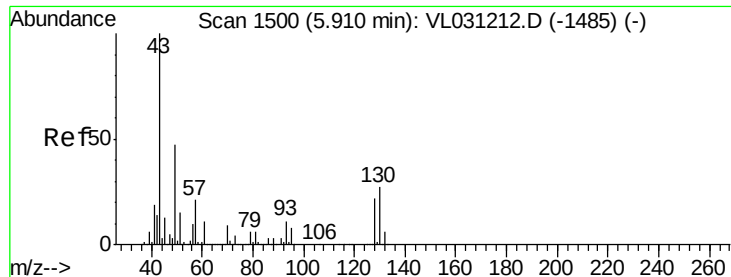
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC001

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC001

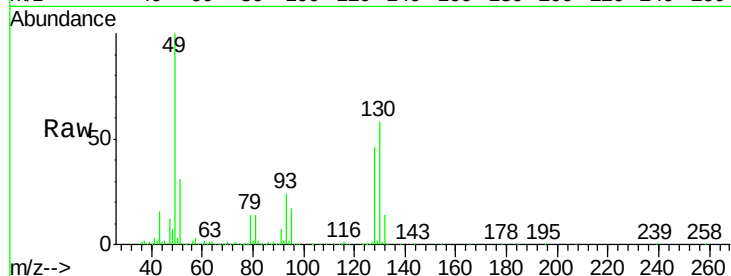
Tgt Ion: 49 Resp: 2346824

Ion Ratio Lower Upper

49 100

128 47.4 23.2 69.5

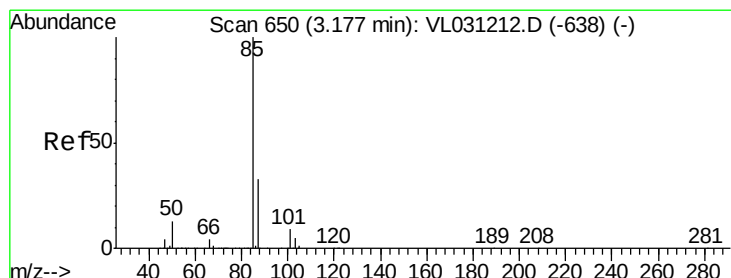
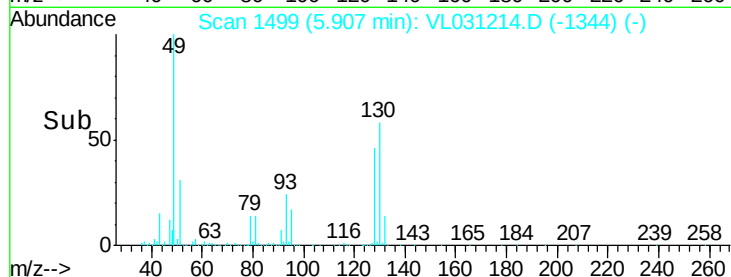
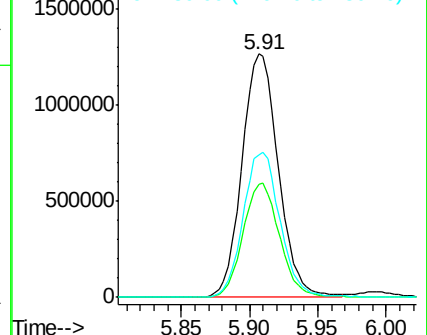
130 61.2 29.6 88.8



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: 0.64 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031214.D

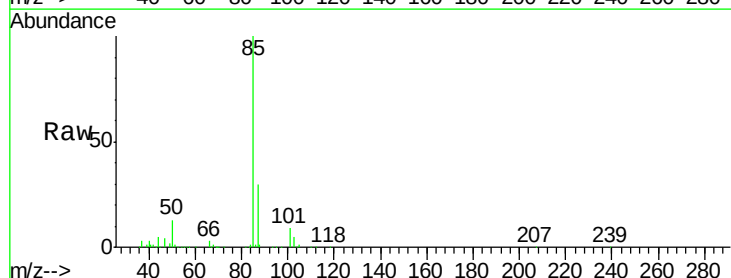
Acq: 13 Dec 2017 23:45

Tgt Ion: 85 Resp: 152916

Ion Ratio Lower Upper

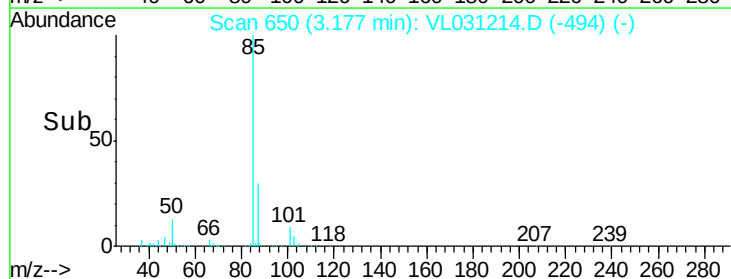
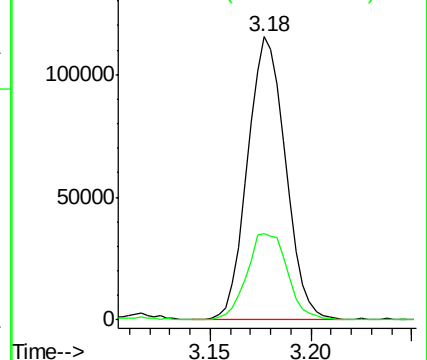
85 100

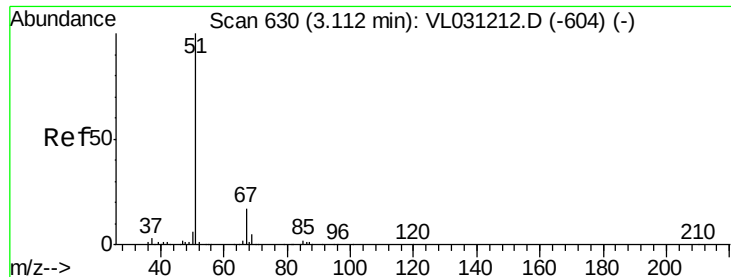
87 30.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.63 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

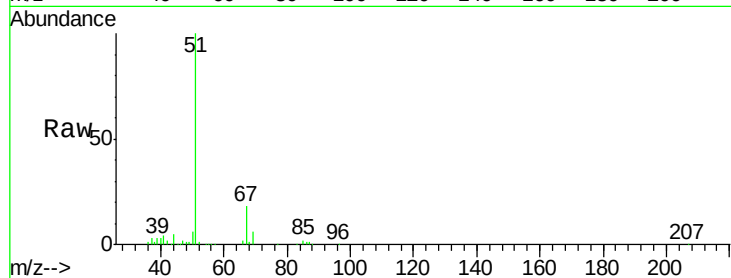
VSTDIC001

Tgt Ion: 51 Resp: 201731

Ion Ratio Lower Upper

51 100

67 17.0 13.8 20.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.12

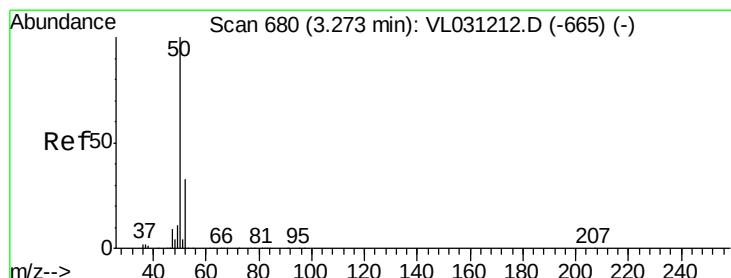
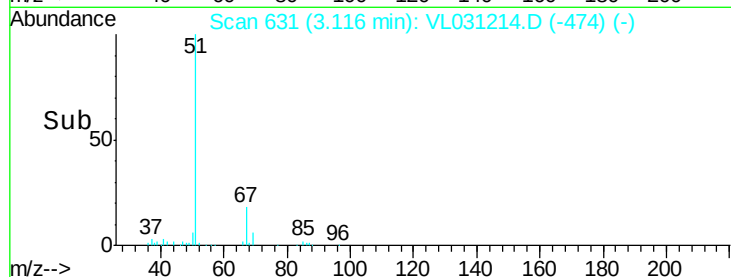
150000

100000

50000

0

Time--> 3.00 3.10 3.20



#4

Chloromethane

Concen: 0.89 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031214.D

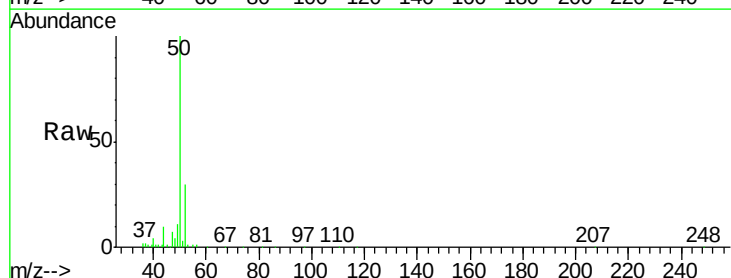
Acq: 13 Dec 2017 23:45

Tgt Ion: 50 Resp: 106817

Ion Ratio Lower Upper

50 100

52 29.4 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.27

80000

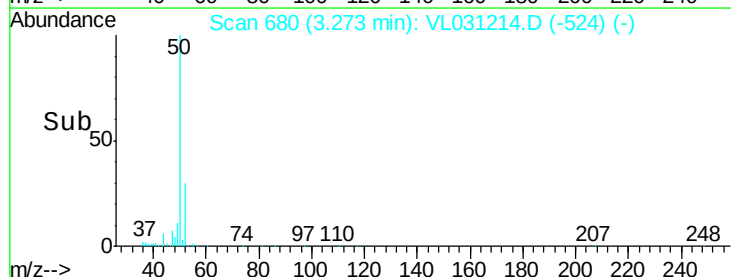
60000

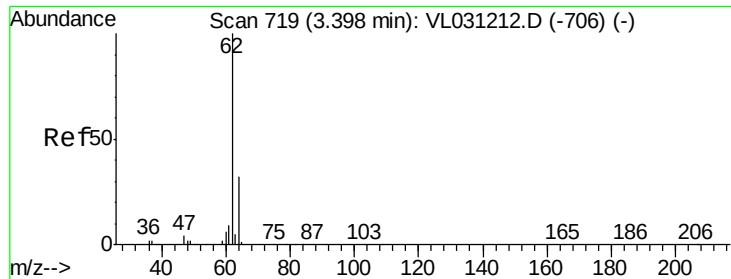
40000

20000

0

Time--> 3.25 3.30





#5

Vinyl Chloride

Concen: 0.79 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

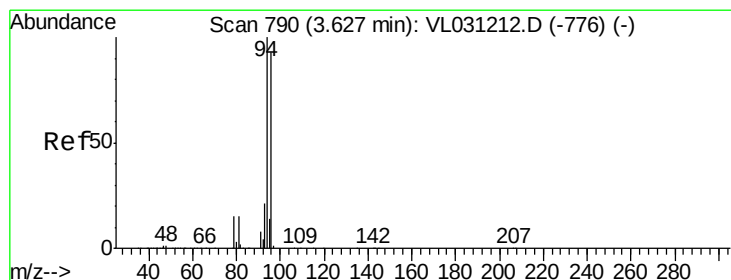
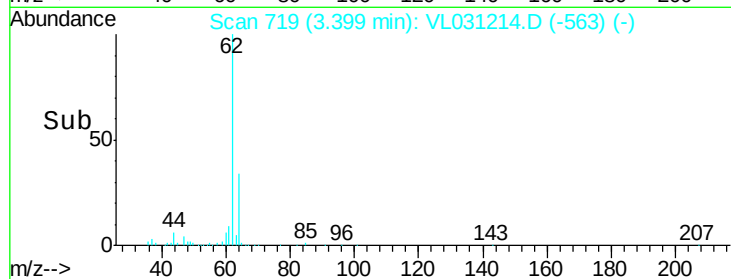
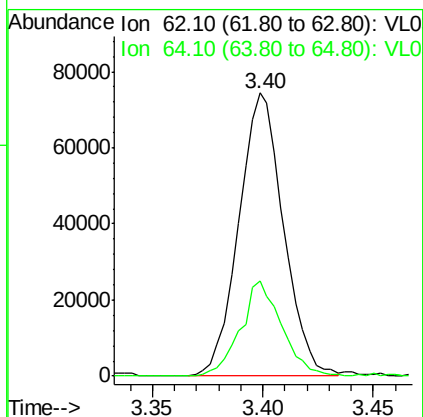
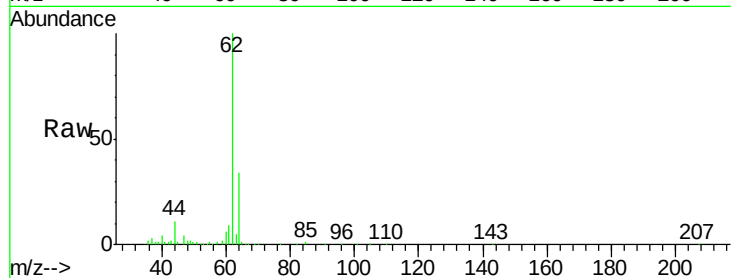
VSTDIC001

Tgt Ion: 62 Resp: 104456

Ion Ratio Lower Upper

62 100

64 33.4 25.9 38.9



#6

Bromomethane

Concen: 0.82 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031214.D

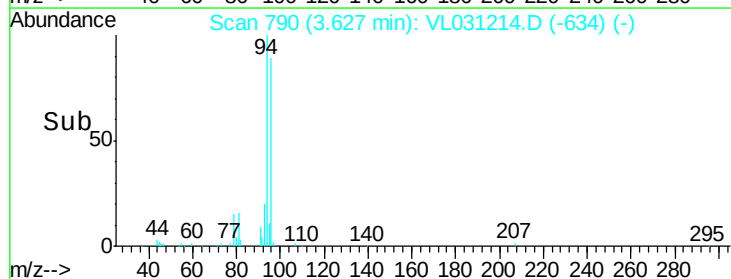
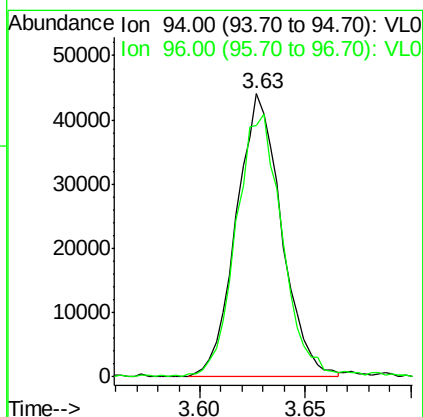
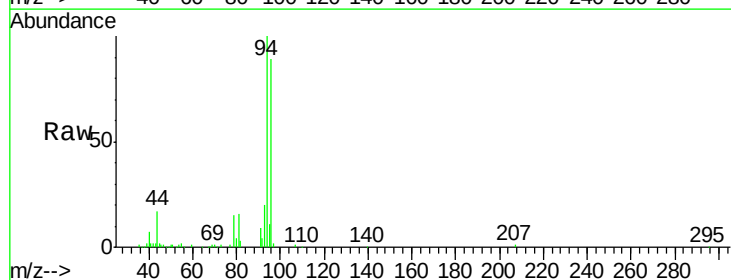
Acq: 13 Dec 2017 23:45

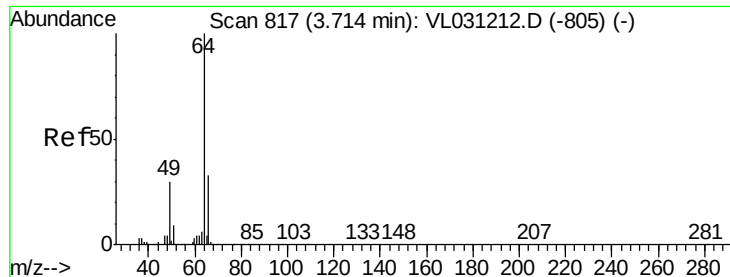
Tgt Ion: 94 Resp: 65540

Ion Ratio Lower Upper

94 100

96 87.8 74.4 111.6





#7

Chloroethane

Concen: 0.85 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

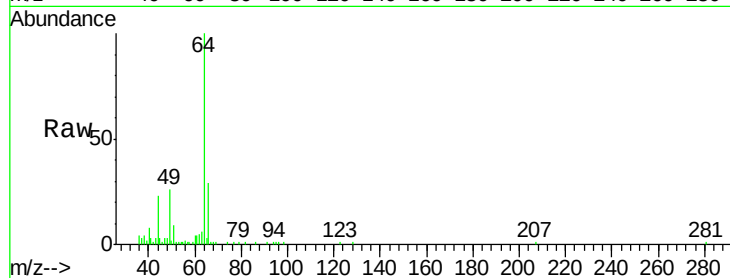
VSTDIC001

Tgt Ion: 64 Resp: 39932

Ion Ratio Lower Upper

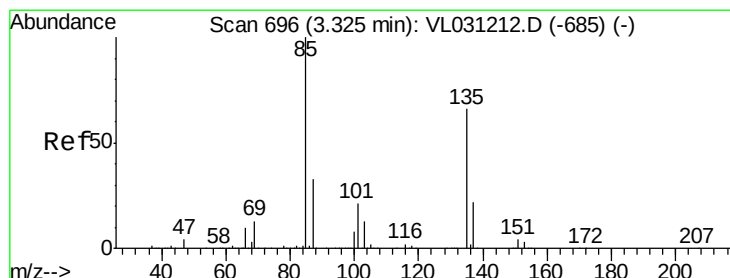
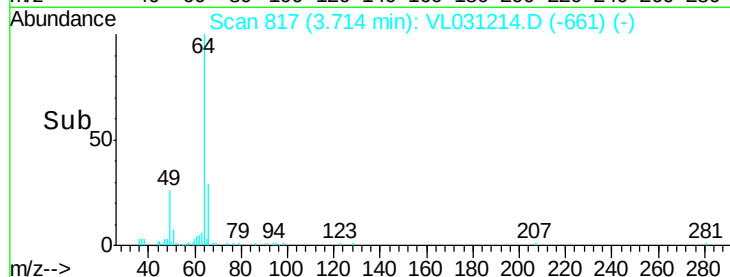
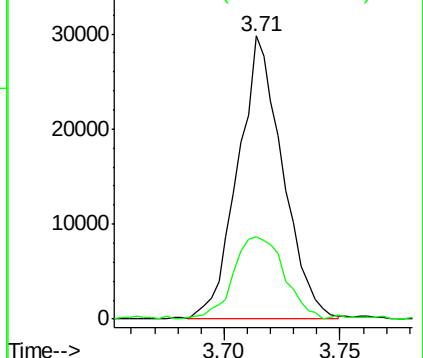
64 100

66 29.0 26.2 39.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.85 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031214.D

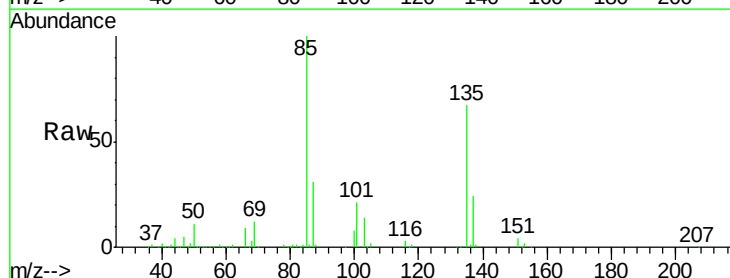
Acq: 13 Dec 2017 23:45

Tgt Ion: 85 Resp: 237758

Ion Ratio Lower Upper

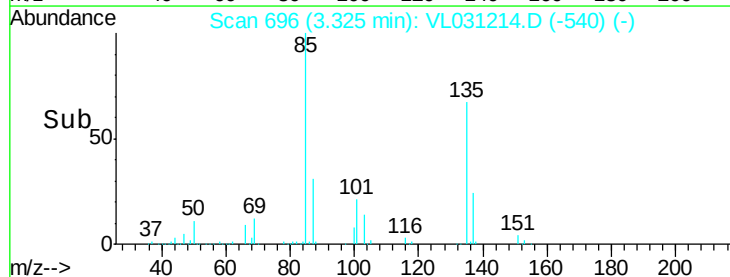
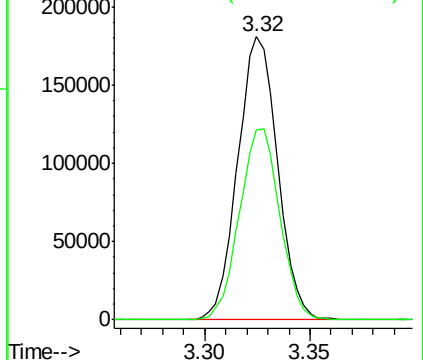
85 100

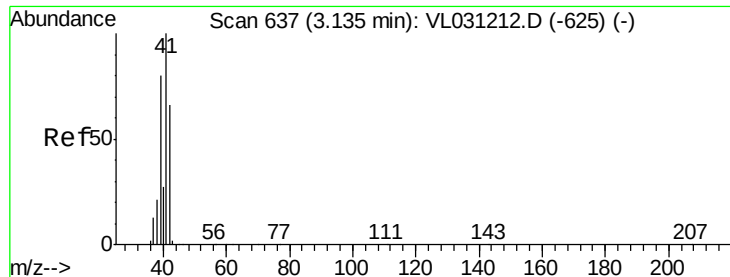
135 68.6 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.71 ppbv

RT: 3.13 min Scan# 637

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

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ClientSampleId :

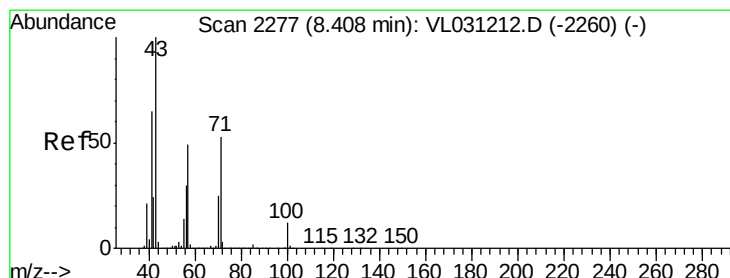
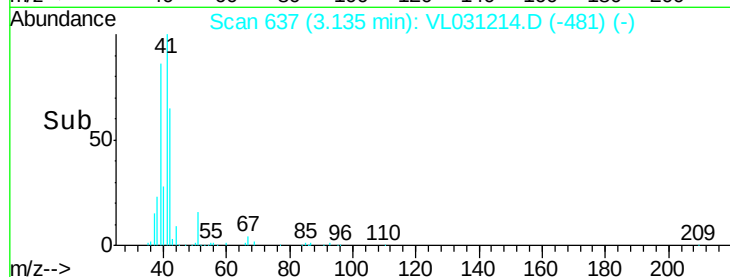
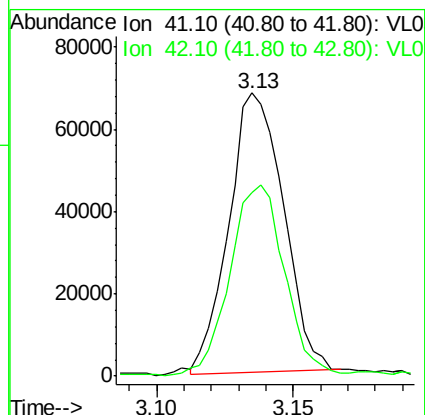
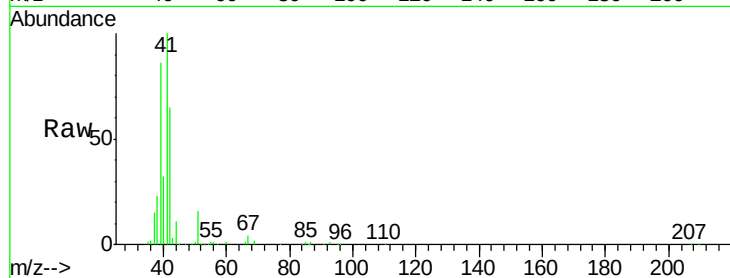
VSTDIC001

Tgt Ion: 41 Resp: 94699

Ion Ratio Lower Upper

41 100

42 68.0 54.3 81.5



#10

Heptane

Concen: 0.99 ppbv

RT: 8.41 min Scan# 2277

Delta R.T. 0.00 min

Lab File: VL031214.D

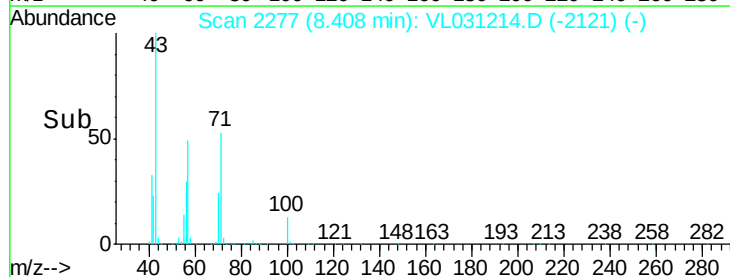
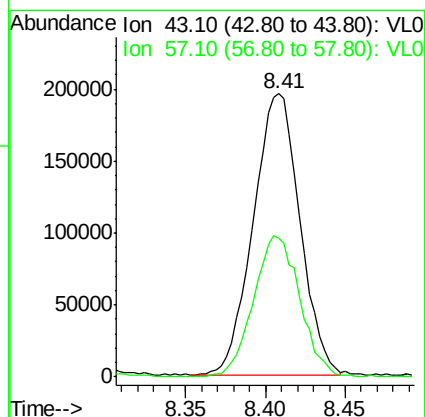
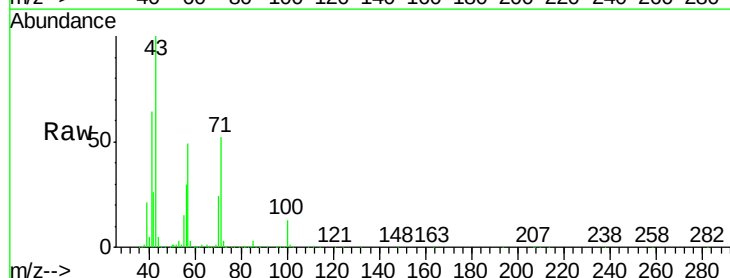
Acq: 13 Dec 2017 23:45

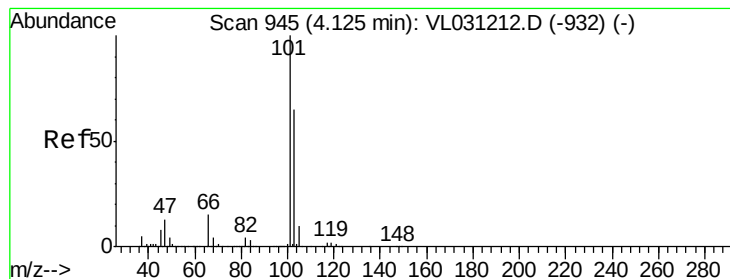
Tgt Ion: 43 Resp: 393984

Ion Ratio Lower Upper

43 100

57 49.4 39.8 59.8





#11

Trichlorofluoromethane

Concen: 0.89 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

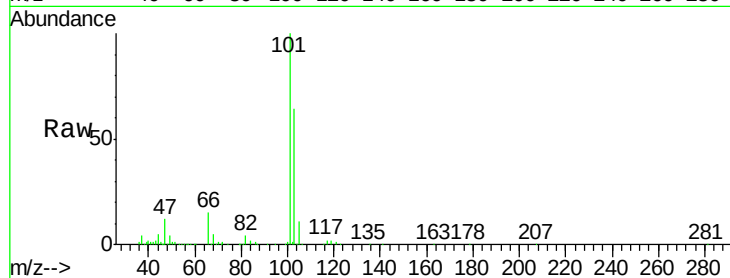
VSTDIC001

Tgt Ion:101 Resp: 251408

Ion Ratio Lower Upper

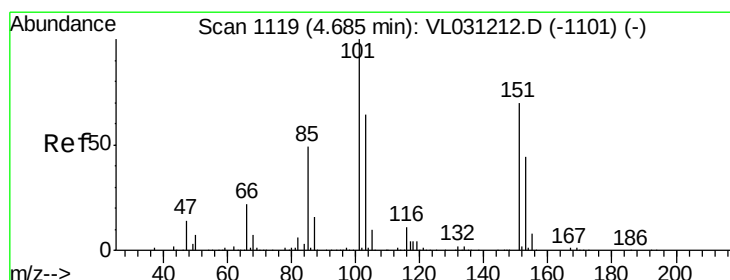
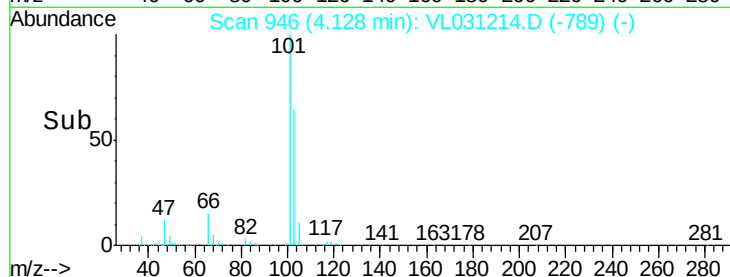
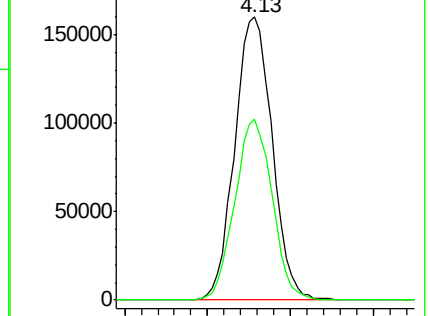
101 100

103 63.9 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: 1.41 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031214.D

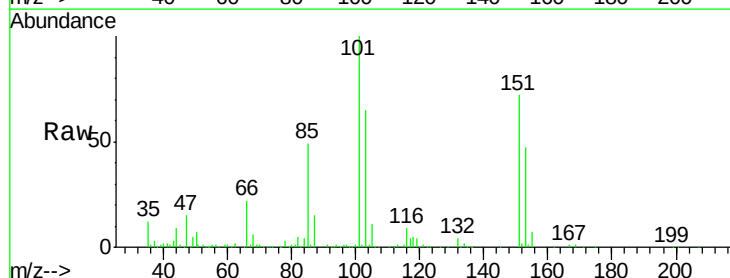
Acq: 13 Dec 2017 23:45

Tgt Ion:101 Resp: 235480

Ion Ratio Lower Upper

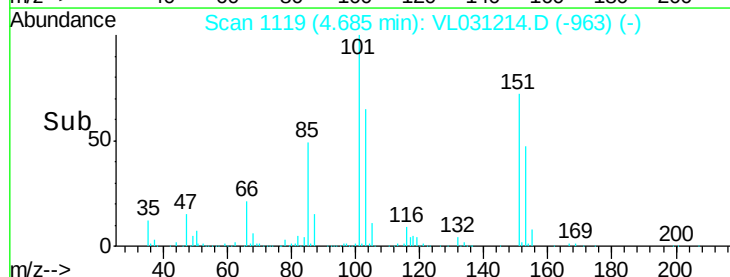
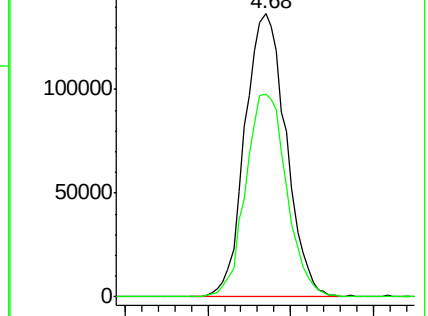
101 100

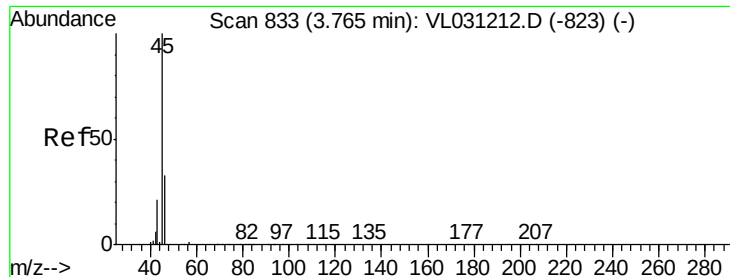
151 71.4 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 1.29 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

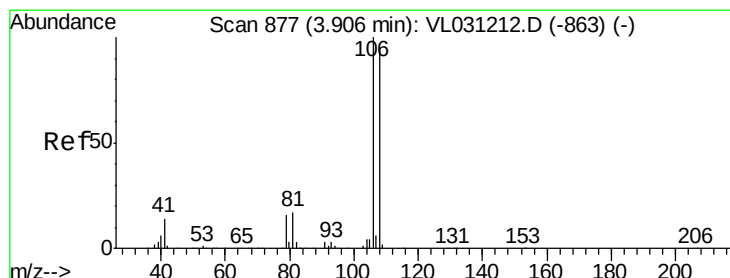
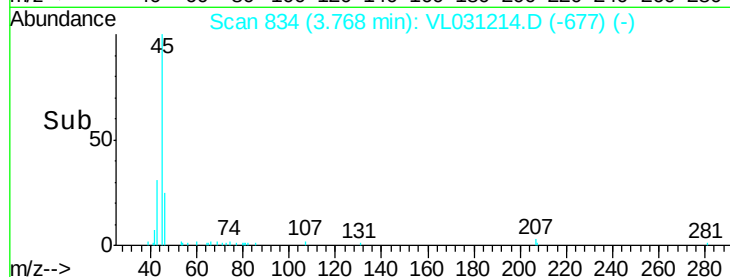
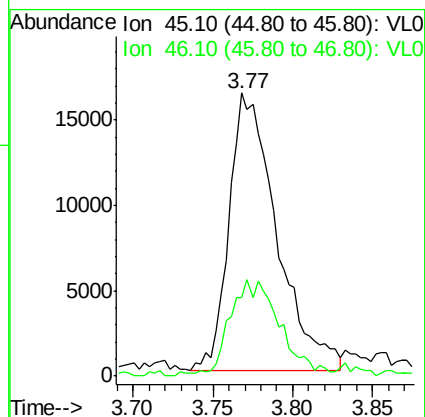
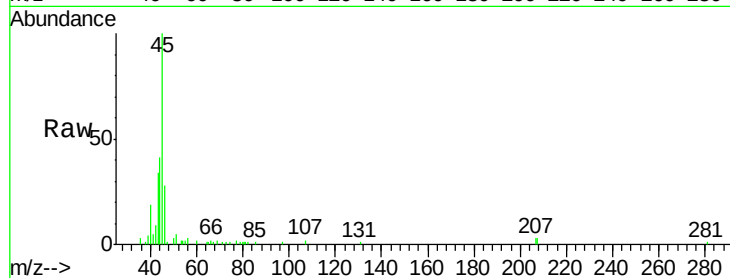
VSTDIC001

Tgt Ion: 45 Resp: 32994

Ion Ratio Lower Upper

45 100

46 36.7 14.6 58.4



#14

Bromoethene

Concen: 0.87 ppbv

RT: 3.91 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

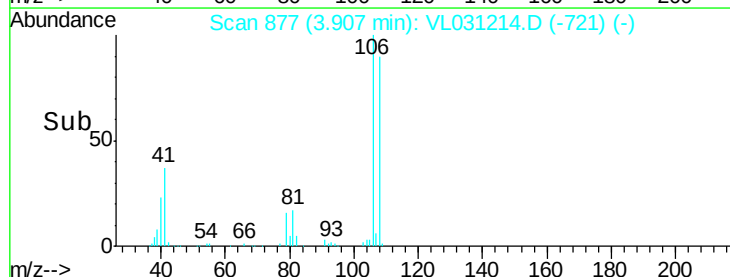
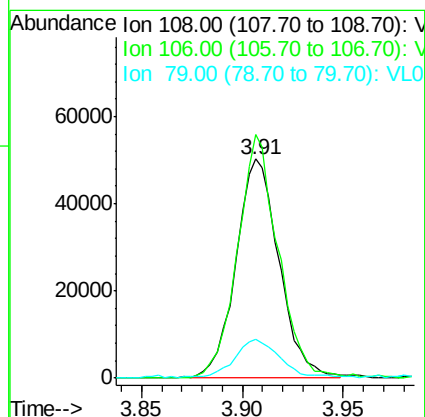
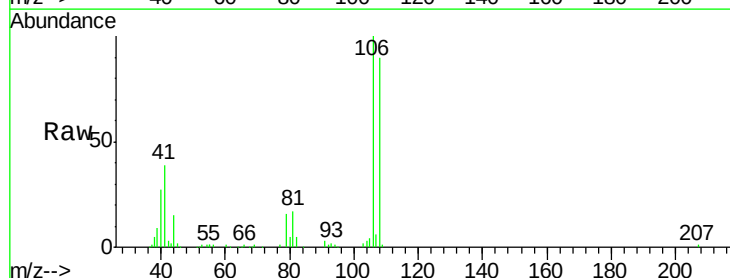
Tgt Ion: 108 Resp: 74814

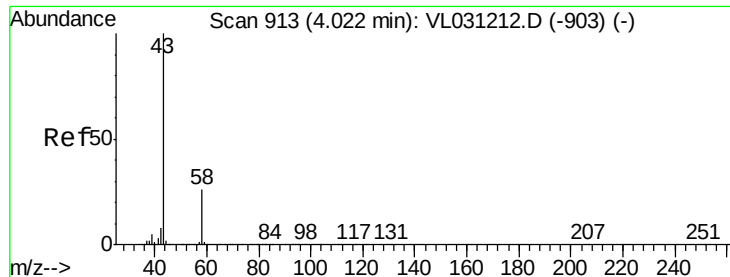
Ion Ratio Lower Upper

108 100

106 106.9 86.5 129.7

79 20.8 14.2 21.4





#15

Acetone

Concen: 1.08 ppbv

RT: 4.03 min Scan# 915

Delta R.T. 0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

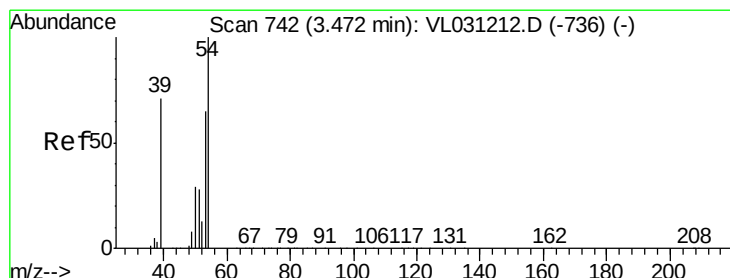
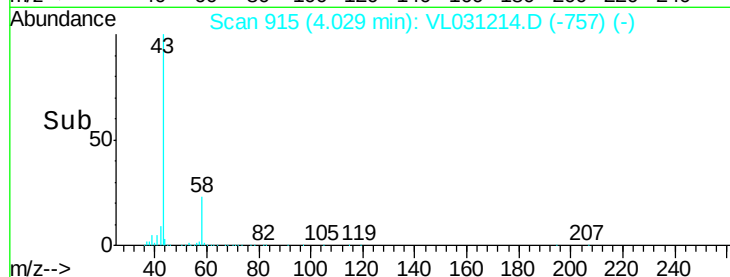
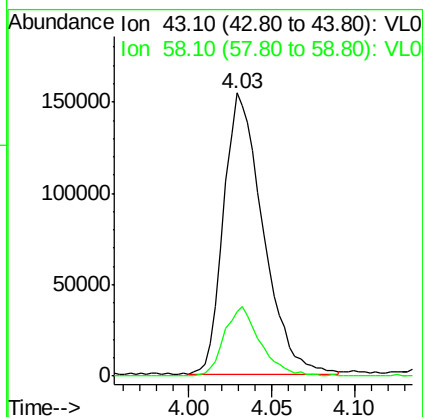
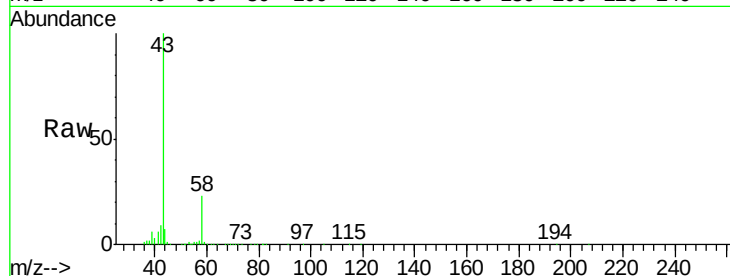
VSTDIC001

Tgt Ion: 43 Resp: 255318

Ion Ratio Lower Upper

43 100

58 22.9 20.3 30.5



#16

1,3-Butadiene

Concen: 0.92 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031214.D

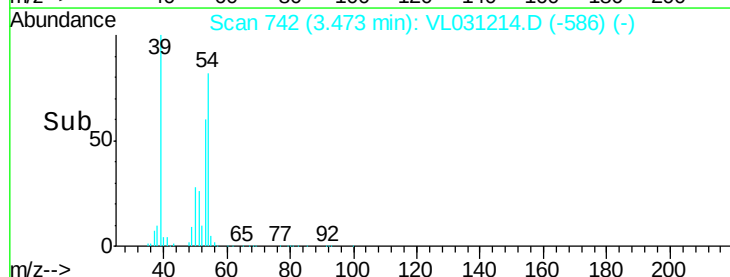
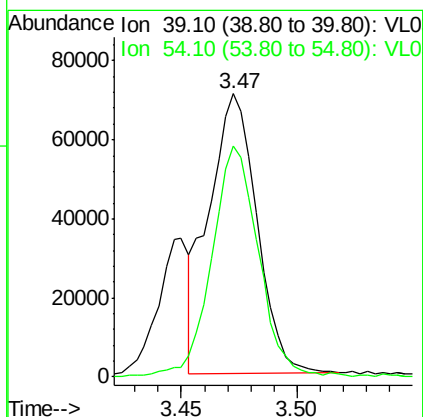
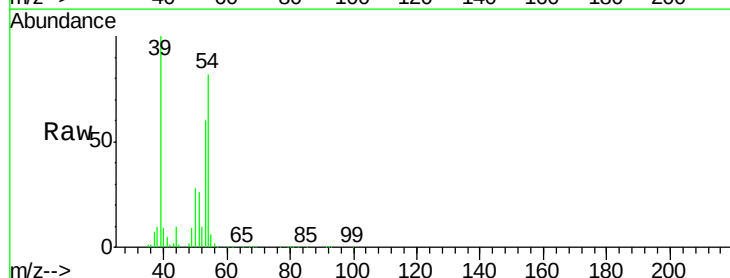
Acq: 13 Dec 2017 23:45

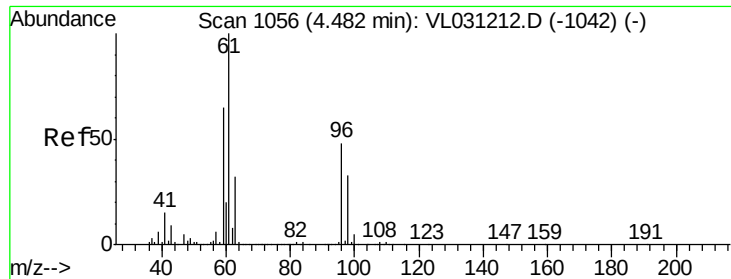
Tgt Ion: 39 Resp: 101661

Ion Ratio Lower Upper

39 100

54 81.2 66.4 99.6





#17

tert-Butyl alcohol

Concen: 1.14 ppbv

RT: 4.50 min Scan# 1062

Delta R.T. 0.02 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

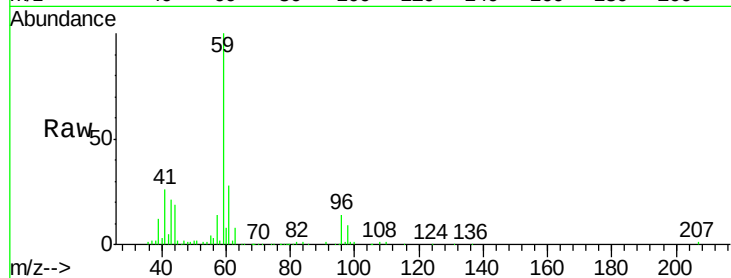
VSTDIC001

Tgt Ion: 59 Resp: 130551

Ion Ratio Lower Upper

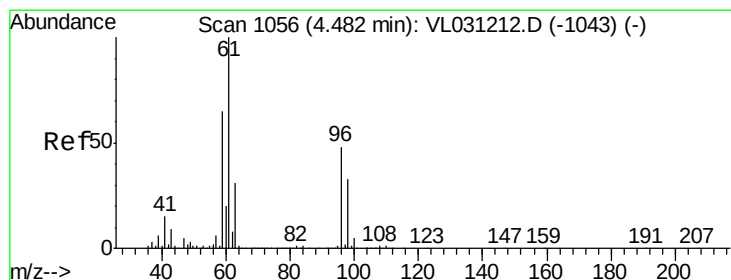
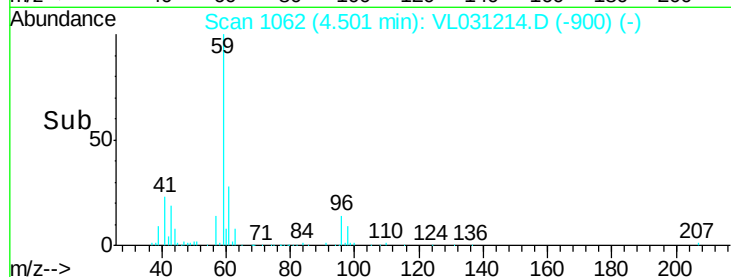
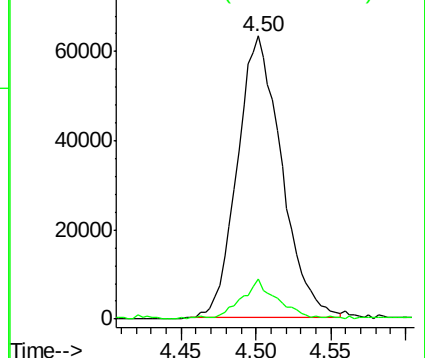
59 100

57 12.4 8.2 12.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.97 ppbv

RT: 4.48 min Scan# 1056

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

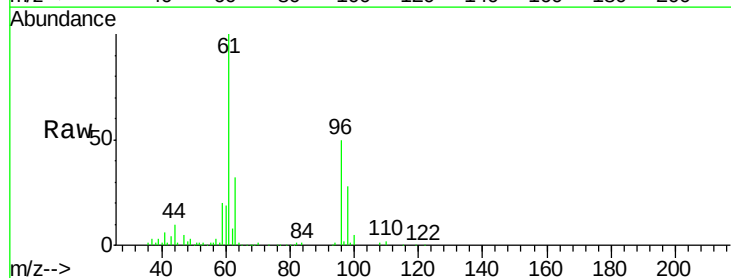
Tgt Ion: 96 Resp: 78620

Ion Ratio Lower Upper

96 100

61 200.2 166.8 250.2

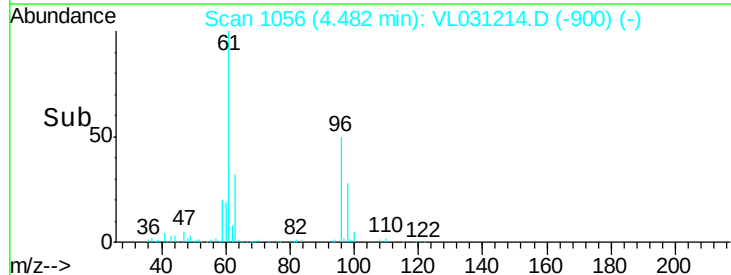
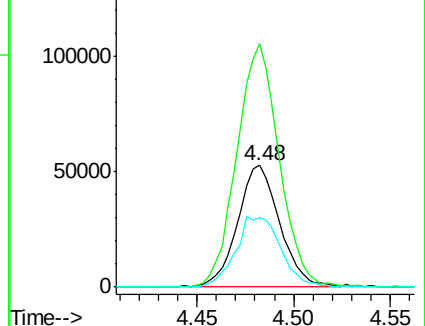
98 56.9 55.0 82.6

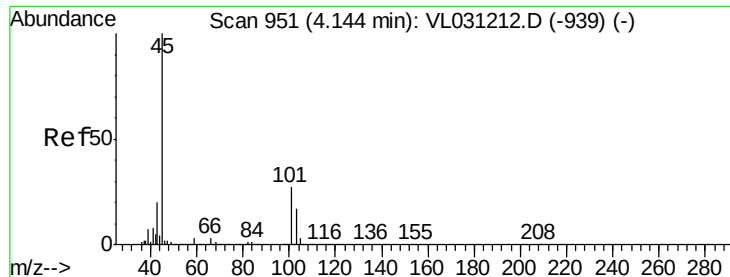


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 1.04 ppbv

RT: 4.16 min Scan# 955

Delta R.T. 0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

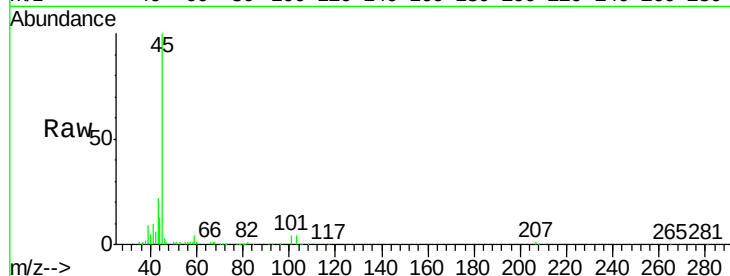
VSTDIC001

Tgt Ion: 45 Resp: 143687

Ion Ratio Lower Upper

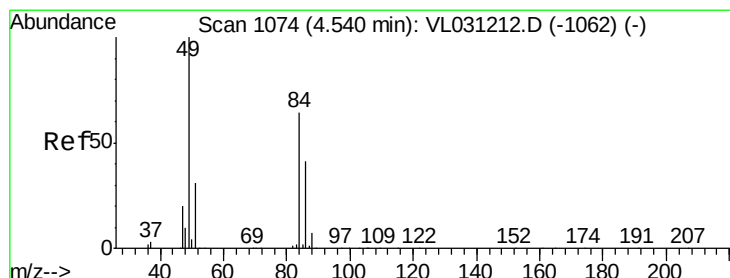
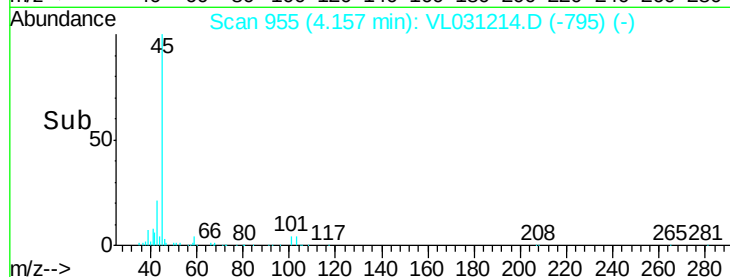
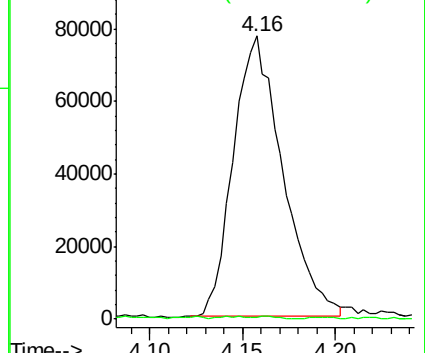
45 100

58 39.7 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: 0.98 ppbv

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Tgt Ion: 84 Resp: 80227

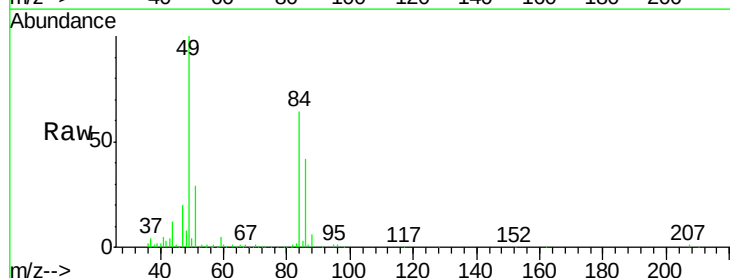
Ion Ratio Lower Upper

84 100

49 156.5 125.8 188.6

51 45.3 39.3 58.9

86 66.4 51.1 76.7

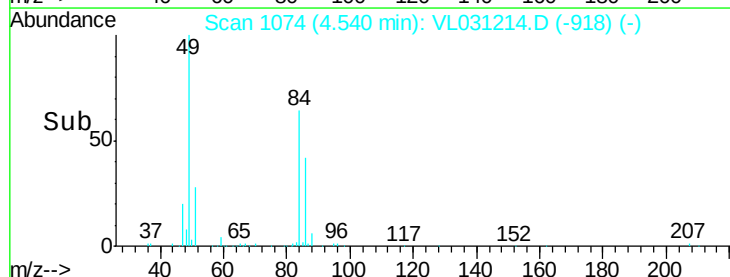
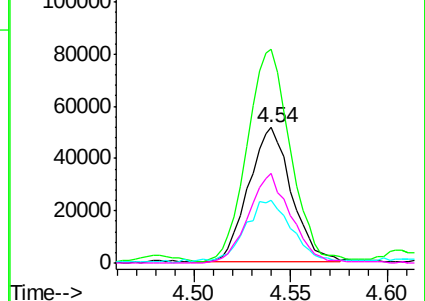


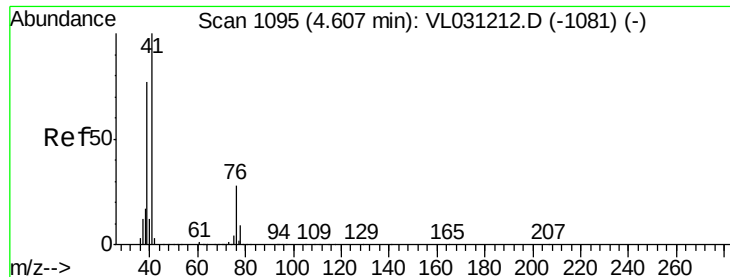
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 1.17 ppbv

RT: 4.61 min Scan# 1096

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

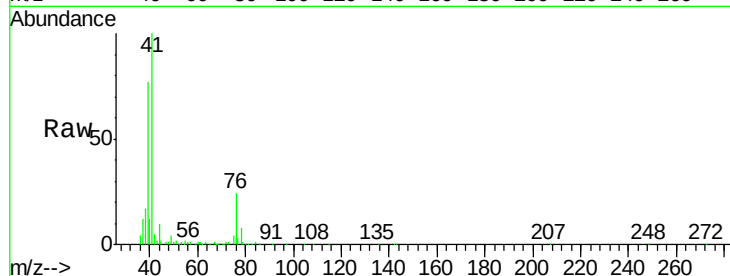
Tgt Ion: 41 Resp: 137520

Ion Ratio Lower Upper

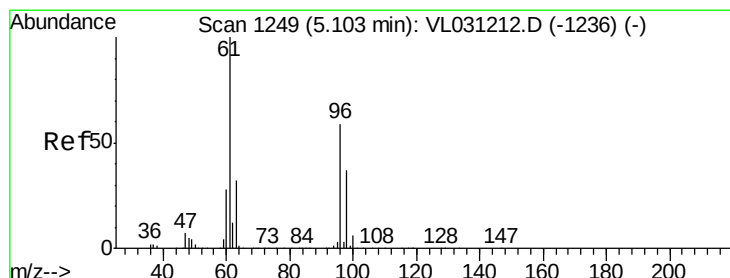
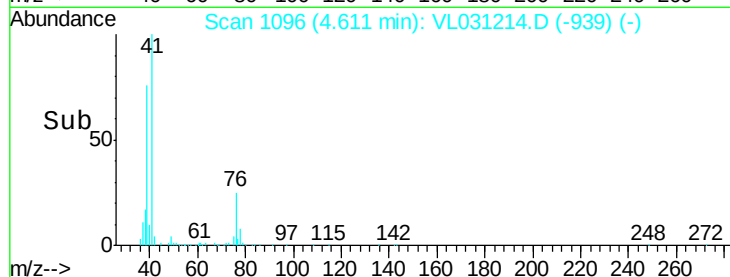
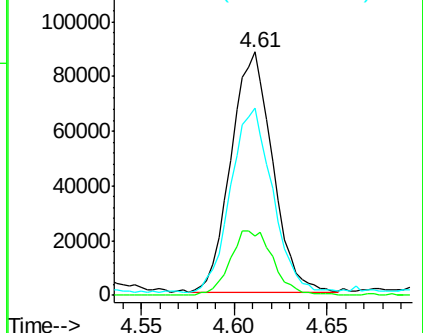
41 100

76 27.6 22.9 34.3

39 76.9 62.6 93.8



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 1.25 ppbv

RT: 5.10 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

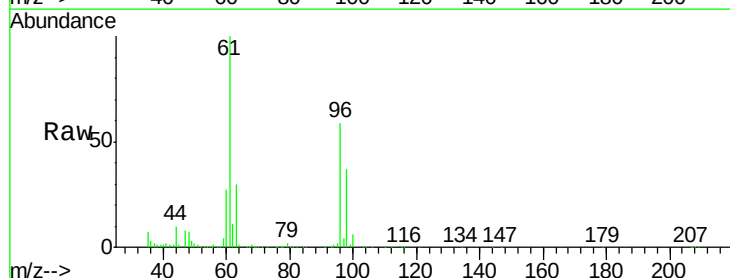
Tgt Ion: 96 Resp: 127310

Ion Ratio Lower Upper

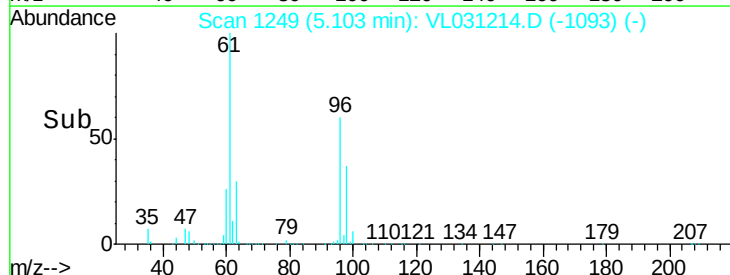
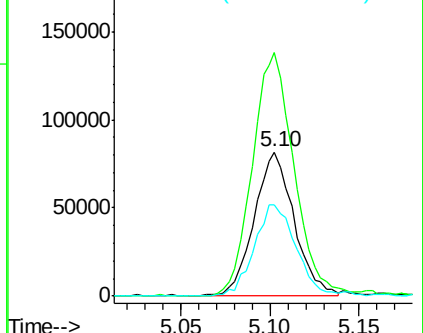
96 100

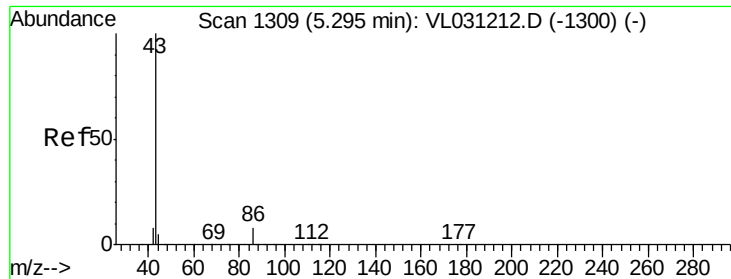
61 169.4 135.0 202.4

98 63.1 50.5 75.7



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

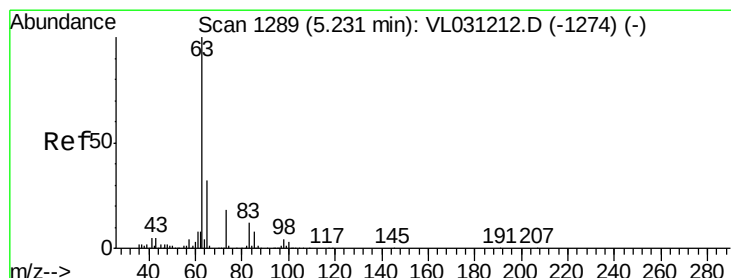
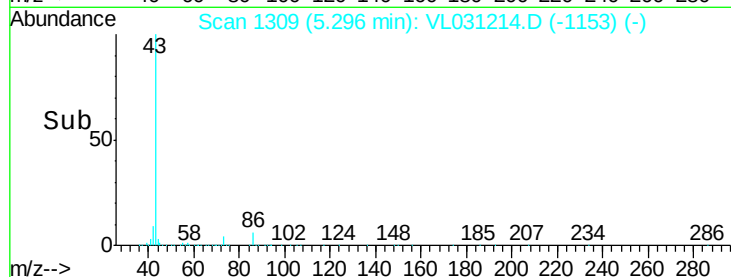
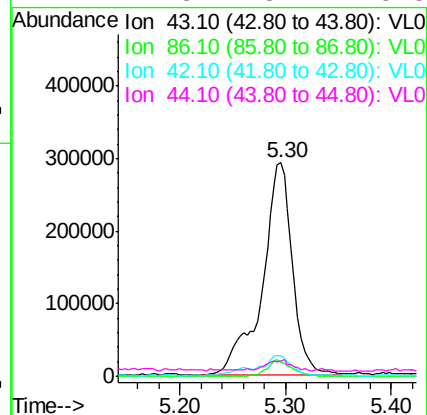
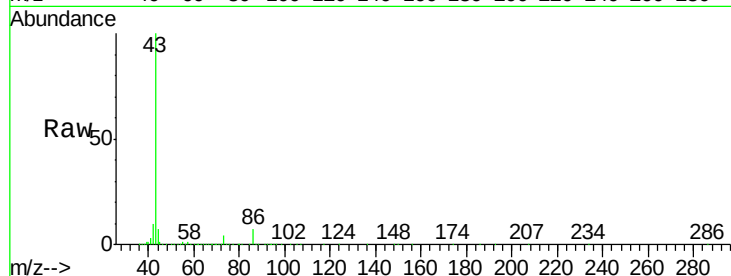




#23
 Vinyl Acetate
 Concen: 1.40 ppbv
 RT: 5.30 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

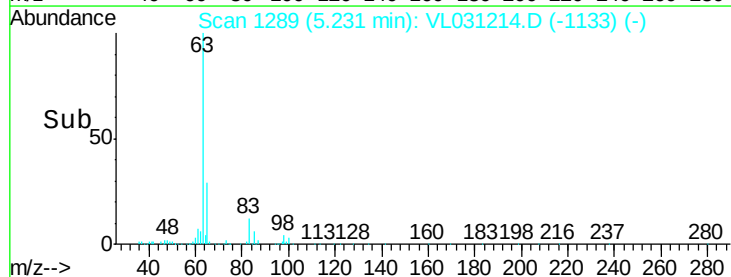
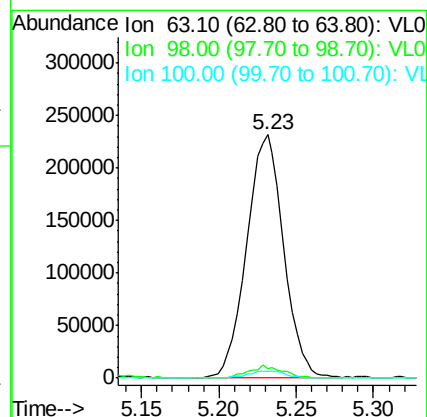
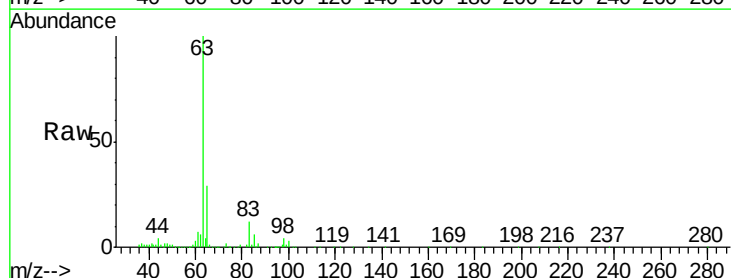
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

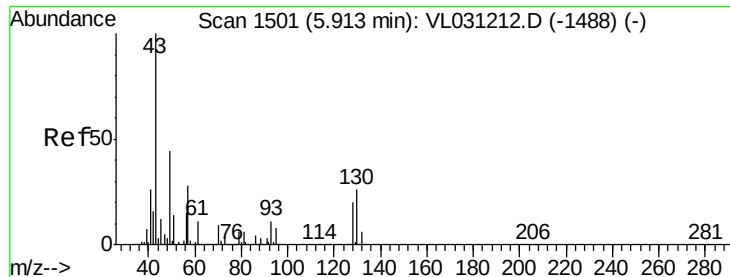
Tgt Ion:	43	Resp:	587654
Ion	Ratio	Lower	Upper
43	100		
86	6.5	5.9	8.9
42	9.4	7.3	10.9
44	4.8	3.7	5.5



#24
 1,1-Dichloroethane
 Concen: 1.07 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion:	63	Resp:	385459
Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.3	6.8
100	3.0	1.4	4.2

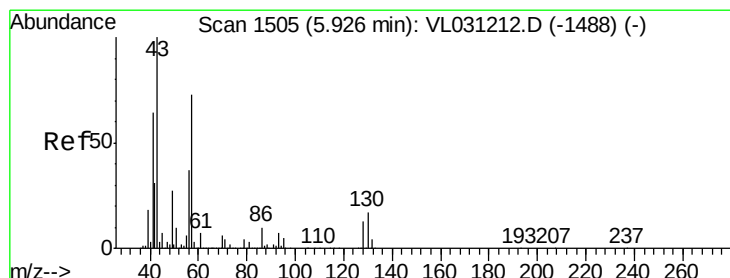
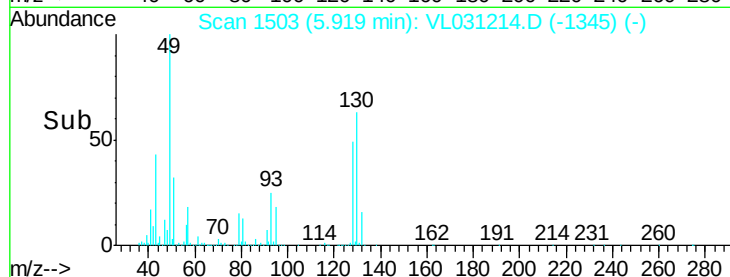
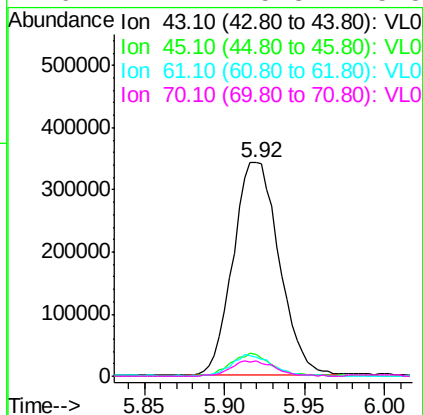
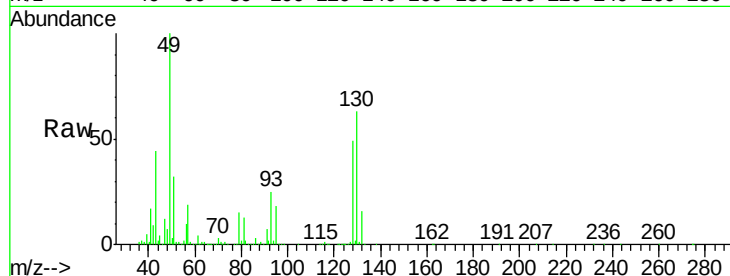




#25
Ethyl Acetate
Concen: 1.15 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. 0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

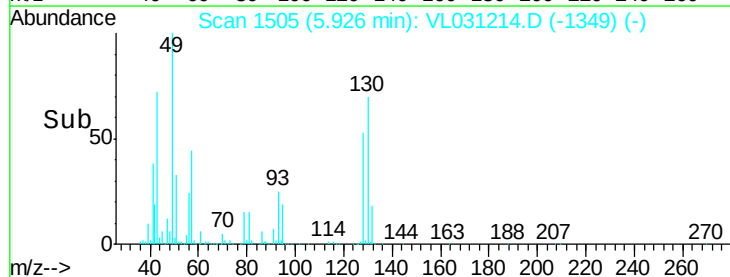
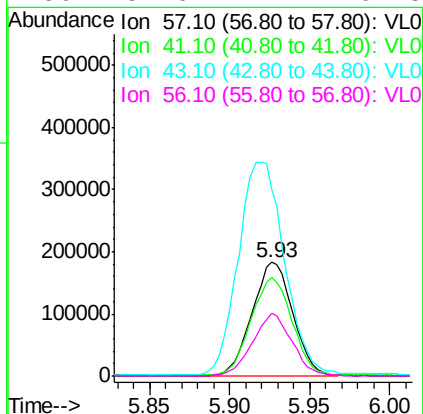
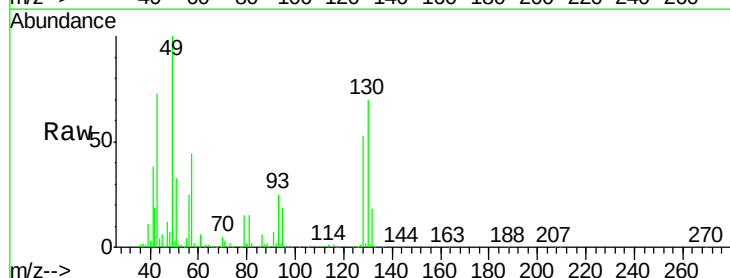
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

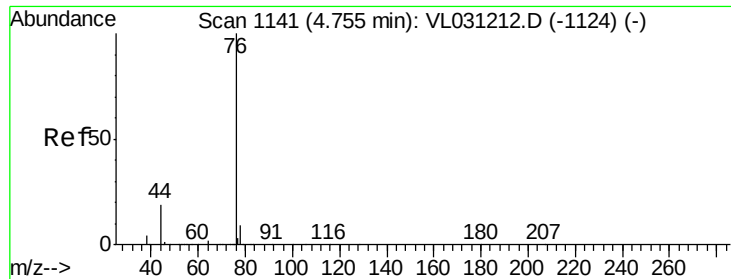
Tgt Ion:	43	Resp:	671389
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.0	12.0
61	8.9	7.4	11.0
70	7.1	5.8	8.8



#26
Hexane
Concen: 1.13 ppbv
RT: 5.93 min Scan# 1505
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion:	57	Resp:	321751
Ion	Ratio	Lower	Upper
57	100		
41	86.6	70.3	105.5
43	212.7	173.8	260.8
56	52.6	41.7	62.5





#27

Carbon Disulfide

Concen: 1.48 ppbv

RT: 4.76 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

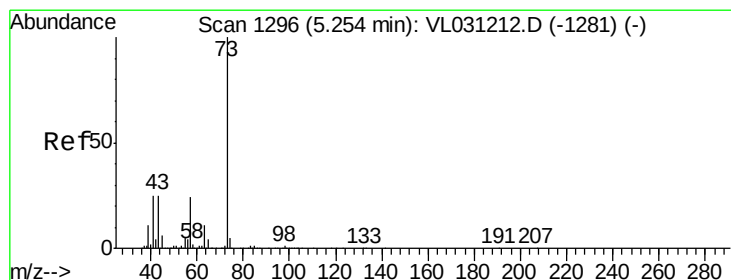
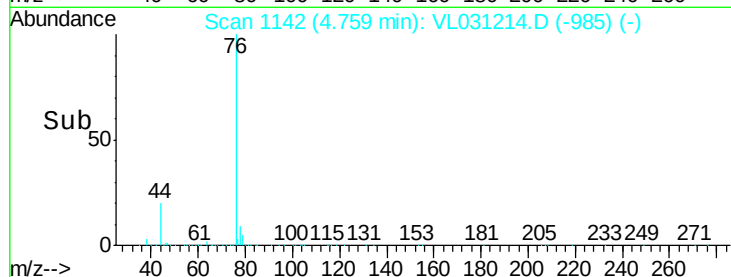
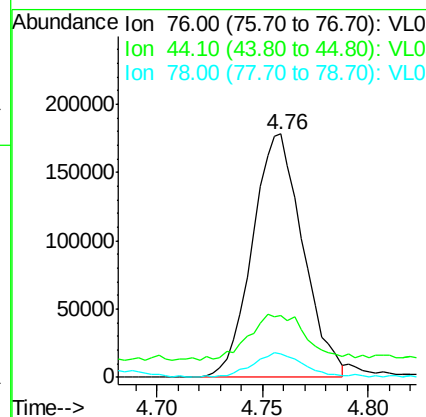
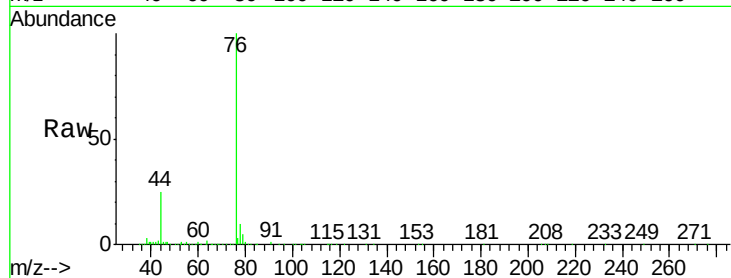
Tgt Ion: 76 Resp: 295611

Ion Ratio Lower Upper

76 100

44 34.9 16.0 24.0#

78 11.7 7.5 11.3#



#28

Methyl tert-Butyl Ether

Concen: 1.32 ppbv

RT: 5.26 min Scan# 1299

Delta R.T. 0.01 min

Lab File: VL031214.D

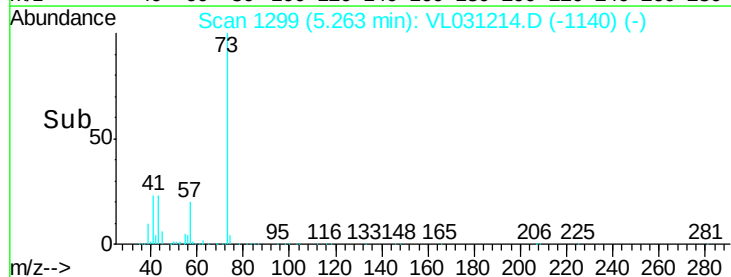
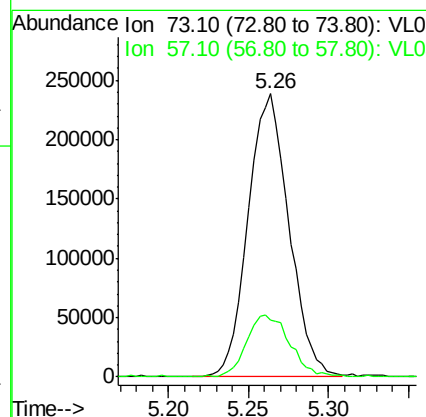
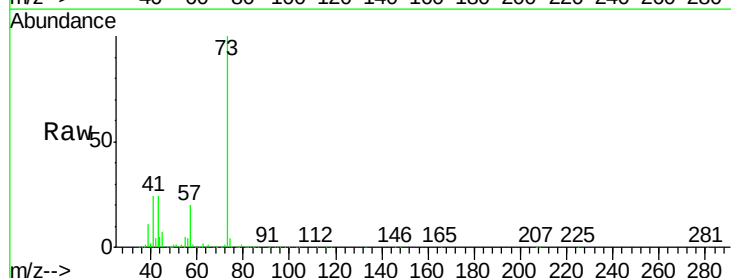
Acq: 13 Dec 2017 23:45

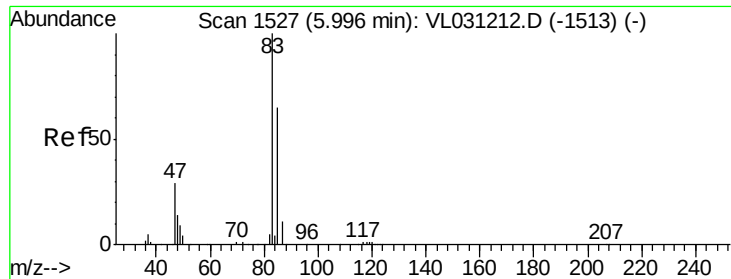
Tgt Ion: 73 Resp: 415600

Ion Ratio Lower Upper

73 100

57 23.1 18.5 27.7

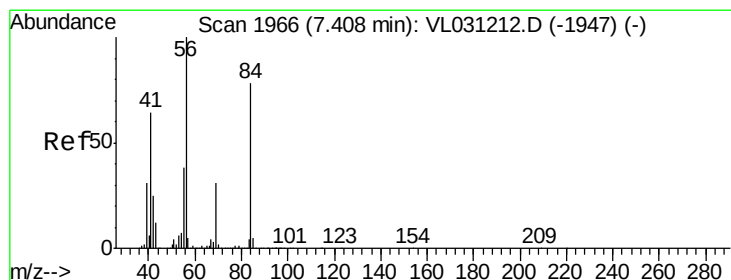
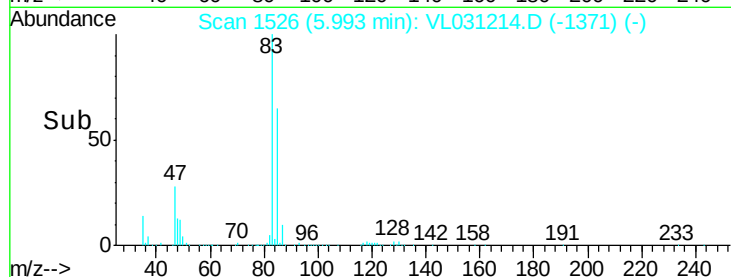
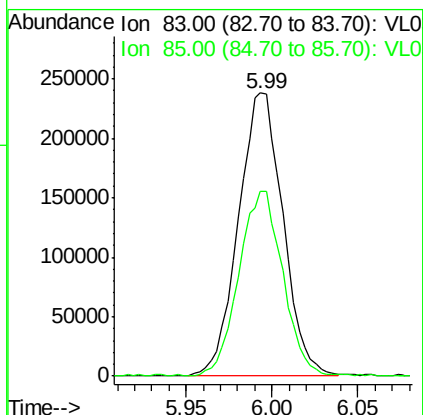
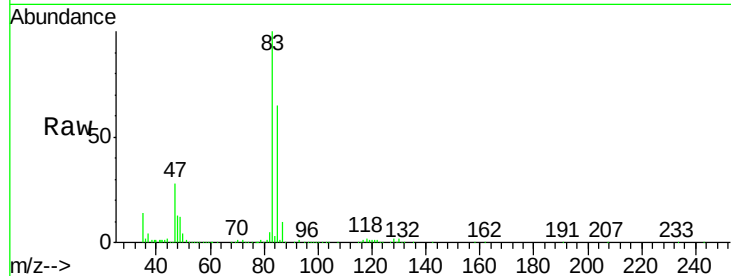




#29
Chloroform
Concen: 1.05 ppbv
RT: 5.99 min Scan# 1526
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

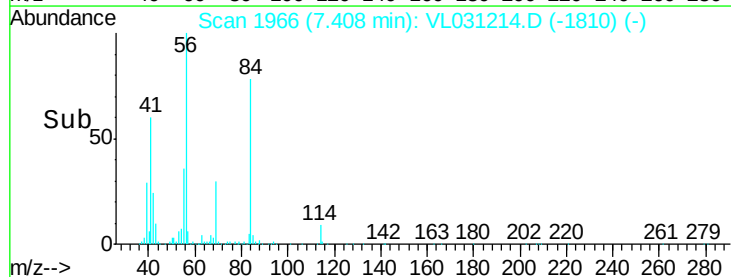
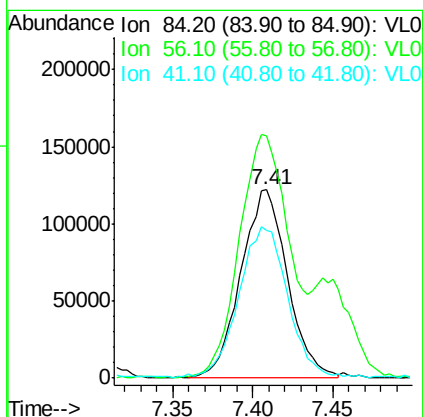
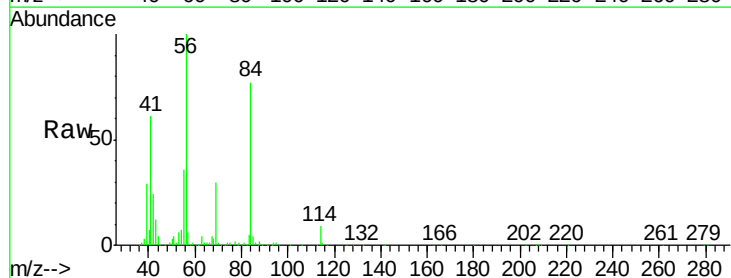
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

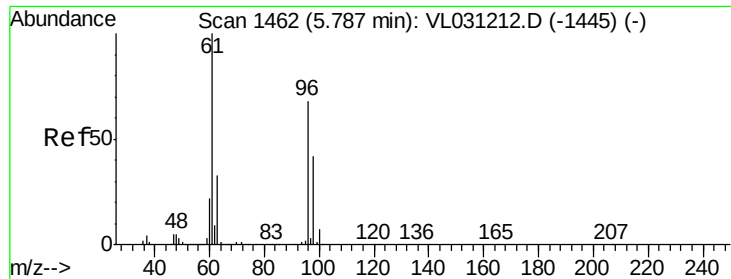
Tgt Ion: 83 Resp: 427287
Ion Ratio Lower Upper
83 100
85 65.0 51.8 77.6



#30
Cyclohexane
Concen: 1.06 ppbv
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion: 84 Resp: 240599
Ion Ratio Lower Upper
84 100
56 183.5 108.0 162.0#
41 84.1 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 1.05 ppbv

RT: 5.78 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

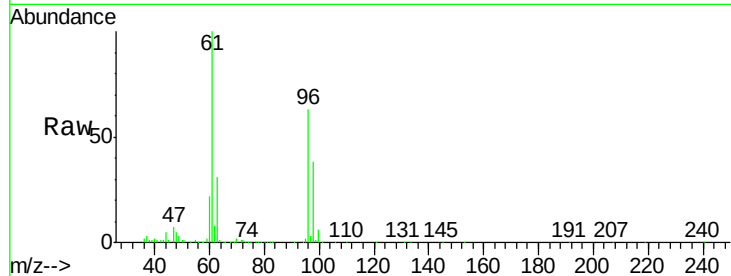
Tgt Ion: 61 Resp: 286635

Ion Ratio Lower Upper

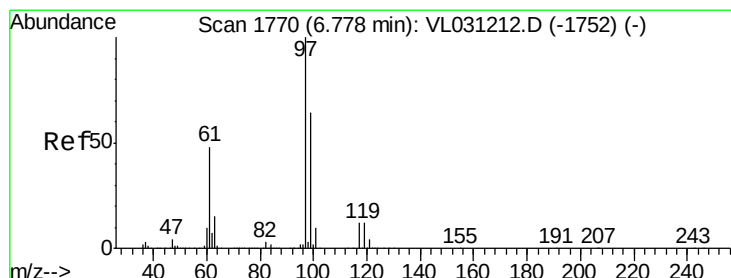
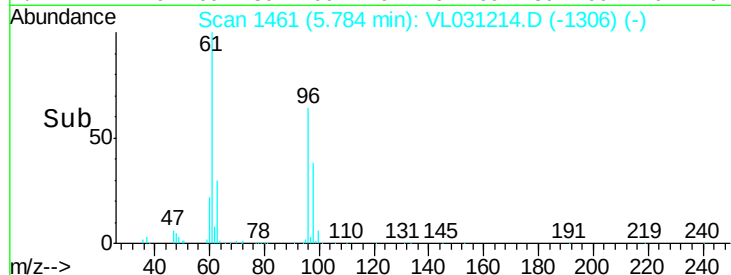
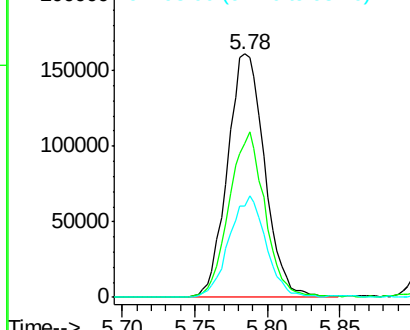
61 100

96 63.1 54.4 81.6

98 37.4 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: 1.20 ppbv

RT: 6.77 min Scan# 1768

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

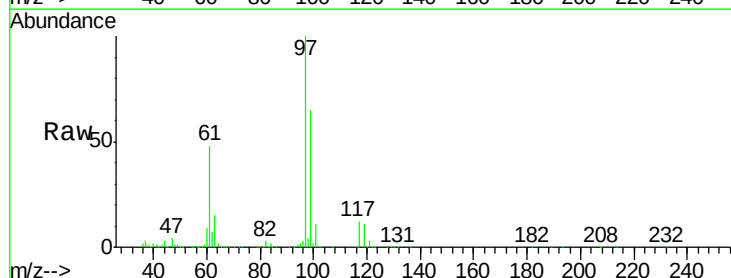
Tgt Ion: 97 Resp: 407024

Ion Ratio Lower Upper

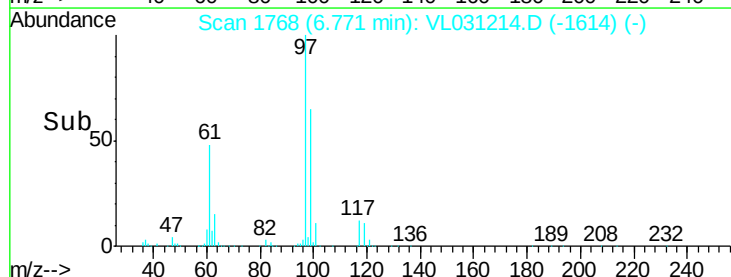
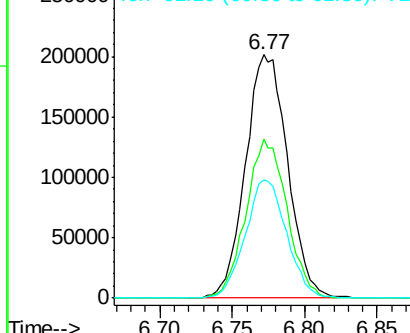
97 100

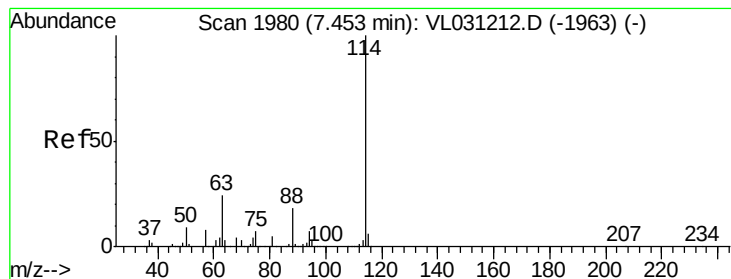
99 63.6 51.4 77.0

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: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

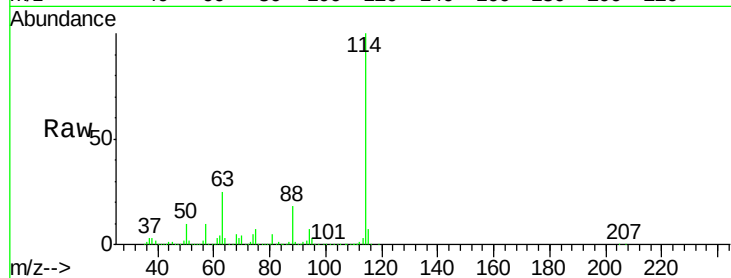
Tgt Ion:114 Resp: 5304461

Ion Ratio Lower Upper

114 100

63 24.7 19.8 29.8

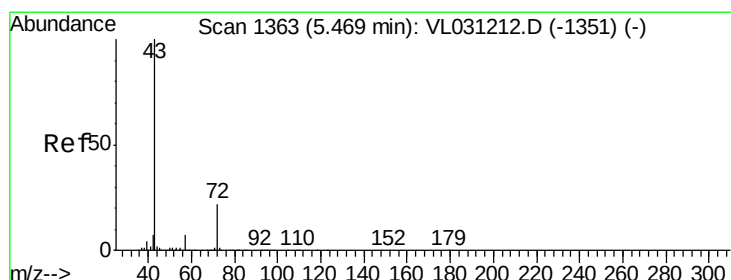
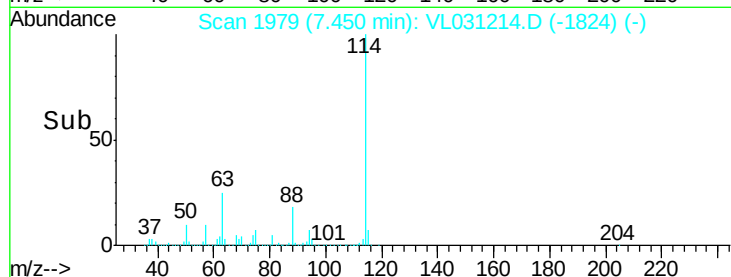
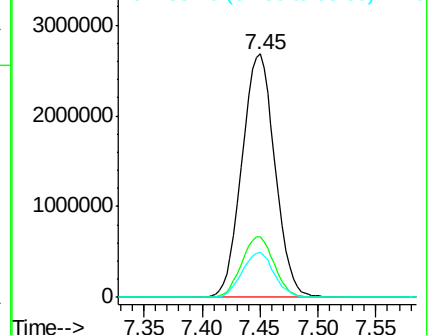
88 18.0 14.2 21.4



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: 1.02 ppbv

RT: 5.48 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VL031214.D

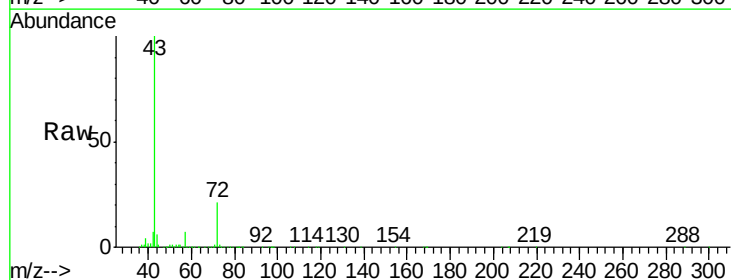
Acq: 13 Dec 2017 23:45

Tgt Ion: 43 Resp: 441842

Ion Ratio Lower Upper

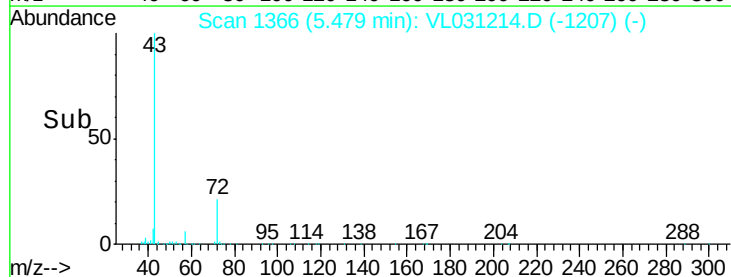
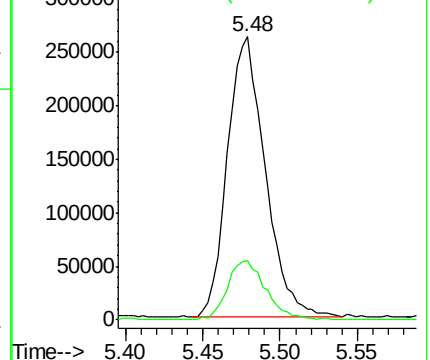
43 100

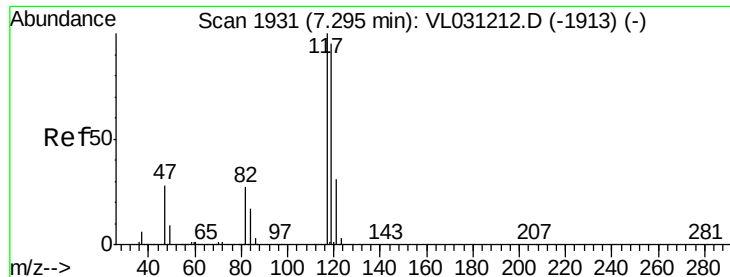
72 22.2 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 1.07 ppbv

RT: 7.29 min Scan# 1930

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

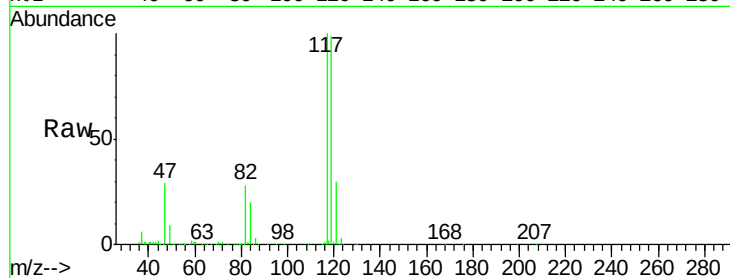
Tgt Ion: 117 Resp: 400418

Ion Ratio Lower Upper

117 100

119 98.8 75.9 113.9

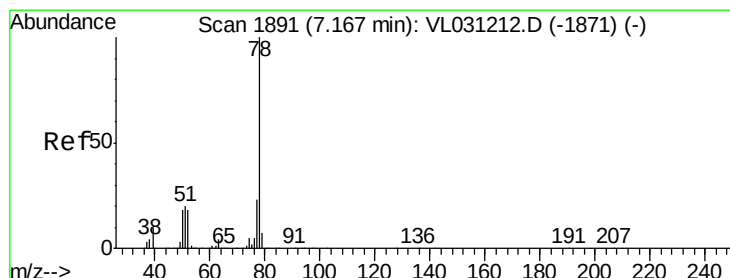
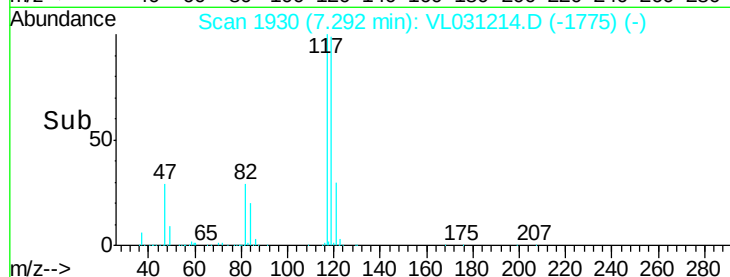
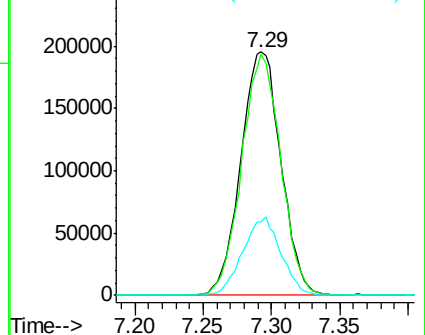
121 30.1 24.6 37.0



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: 0.99 ppbv

RT: 7.16 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

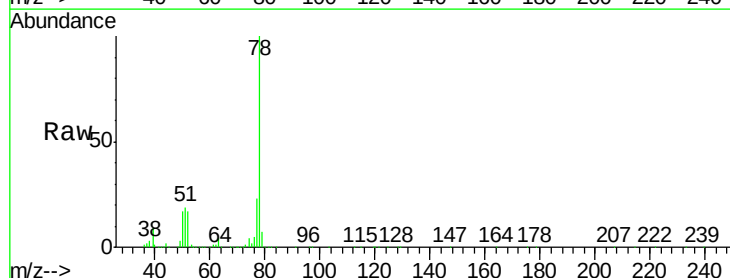
Tgt Ion: 78 Resp: 602730

Ion Ratio Lower Upper

78 100

77 23.2 18.1 27.1

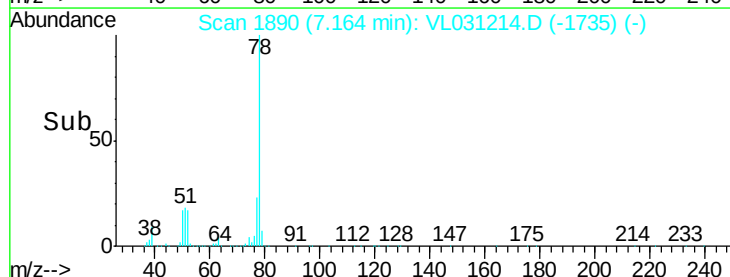
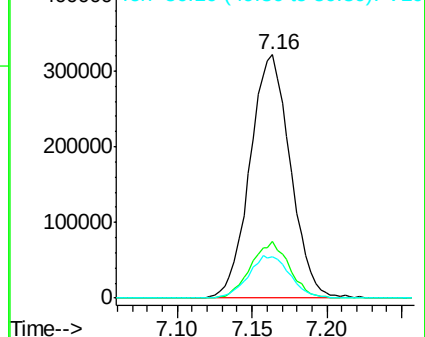
50 17.3 14.6 21.8

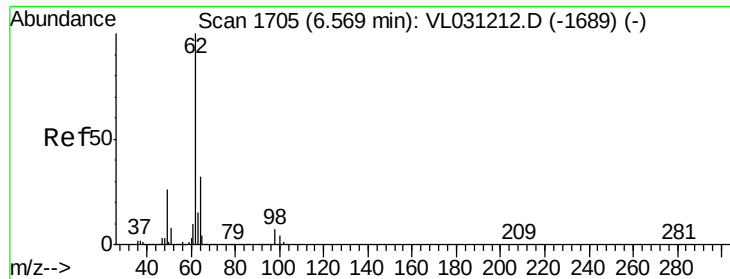


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

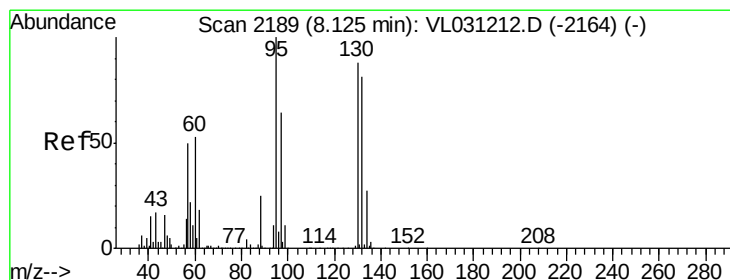
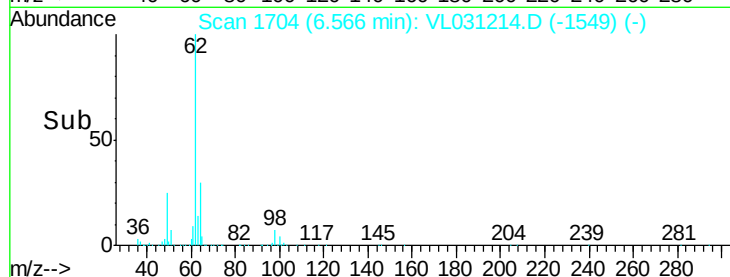
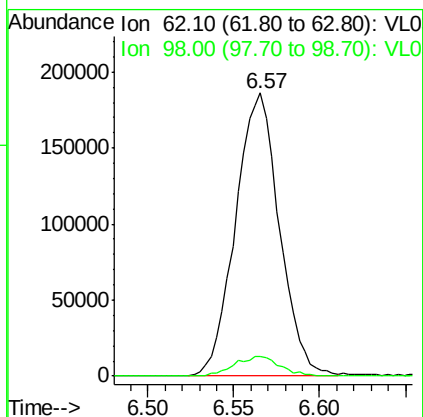
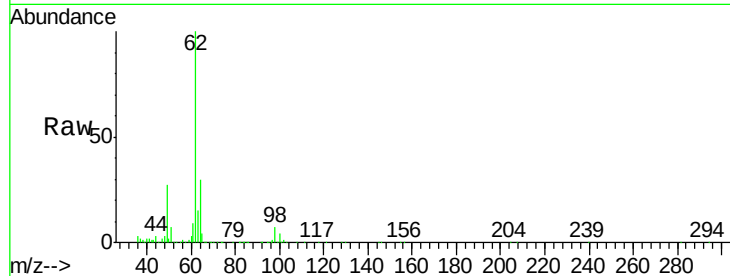




#37
1,2-Dichloroethane
Concen: 0.92 ppbv
RT: 6.57 min Scan# 1704
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

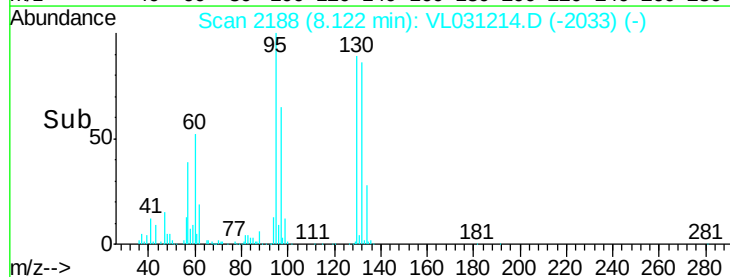
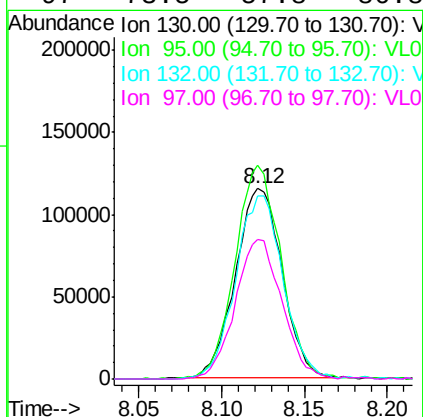
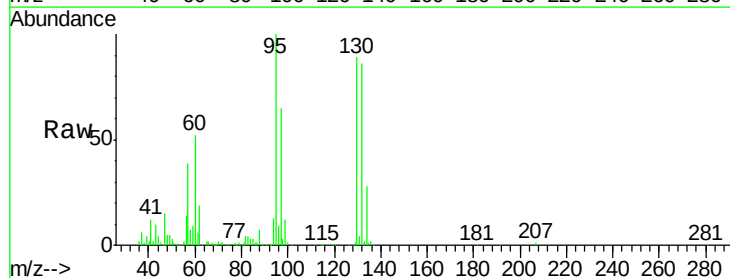
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

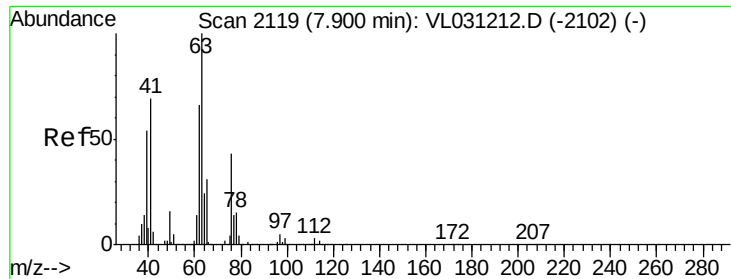
Tgt Ion: 62 Resp: 329813
Ion Ratio Lower Upper
62 100
98 7.5 5.4 8.2



#38
Trichloroethene
Concen: 0.97 ppbv
RT: 8.12 min Scan# 2188
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion: 130 Resp: 224596
Ion Ratio Lower Upper
130 100
95 112.1 90.6 135.8
132 96.6 73.5 110.3
97 73.5 57.8 86.8





#39

1,2-Dichloropropane

Concen: 0.91 ppbv

RT: 7.89 min Scan# 2117

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

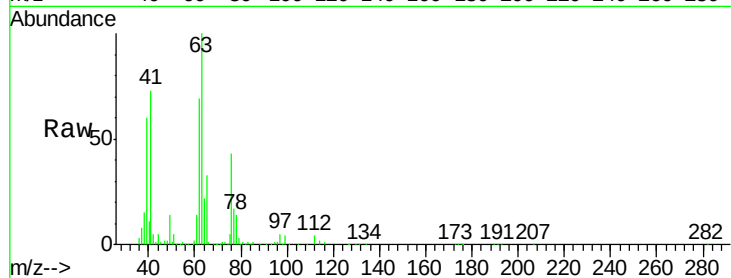
Tgt Ion: 63 Resp: 210855

Ion Ratio Lower Upper

63 100

41 72.7 55.2 82.8

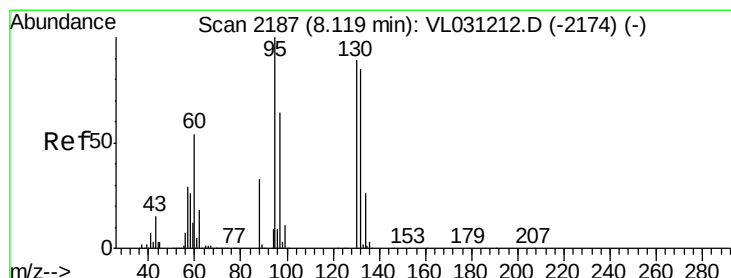
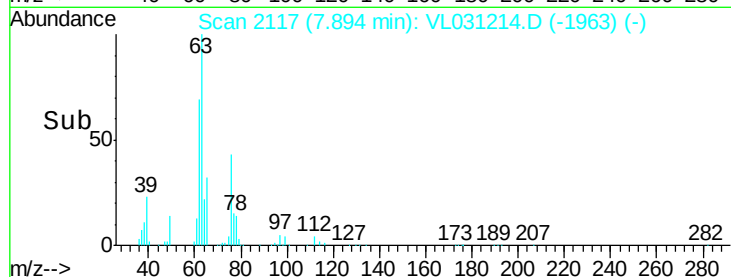
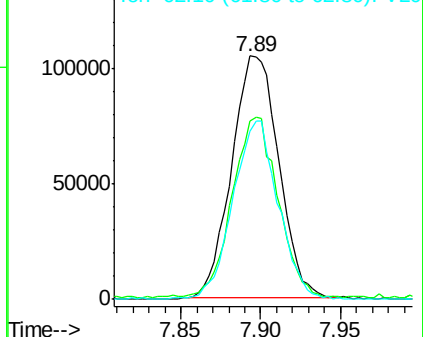
62 68.8 53.0 79.4



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: 0.83 ppbv

RT: 8.14 min Scan# 2195

Delta R.T. 0.03 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Tgt Ion: 88 Resp: 76563

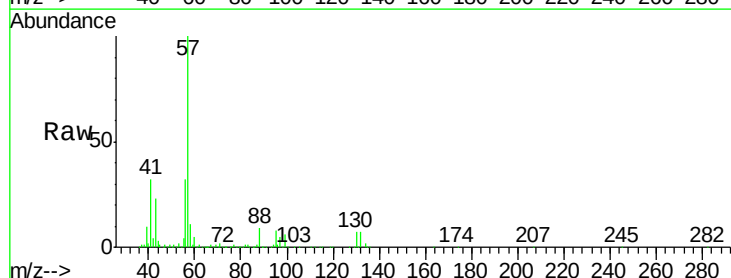
Ion Ratio Lower Upper

88 100

58 150.2 104.3 156.5

43 285.2 0.0 0.0#

57 1288.5 0.0 0.0#

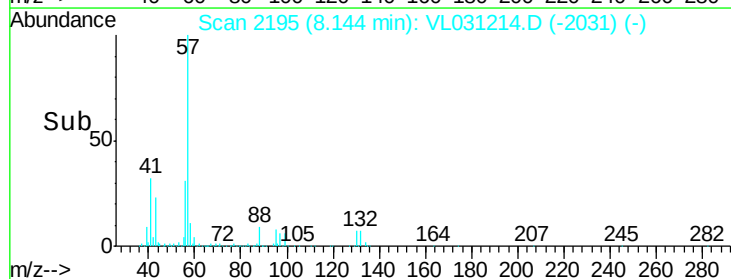
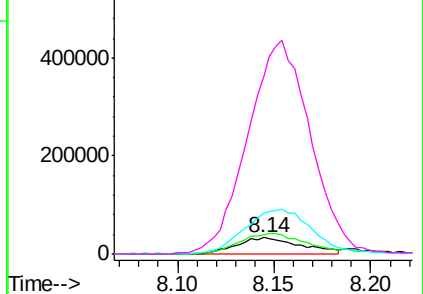


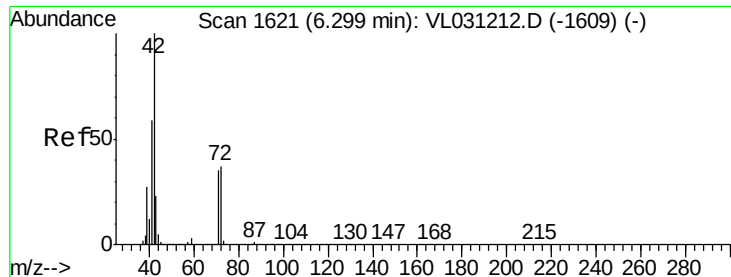
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 1.04 ppbv

RT: 6.31 min Scan# 1625

Delta R.T. 0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

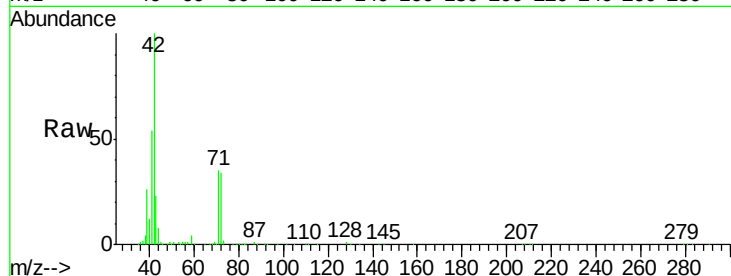
Tgt Ion: 42 Resp: 236581

Ion Ratio Lower Upper

42 100

72 37.8 30.2 45.4

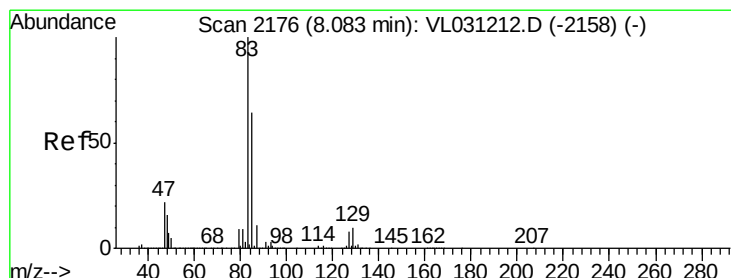
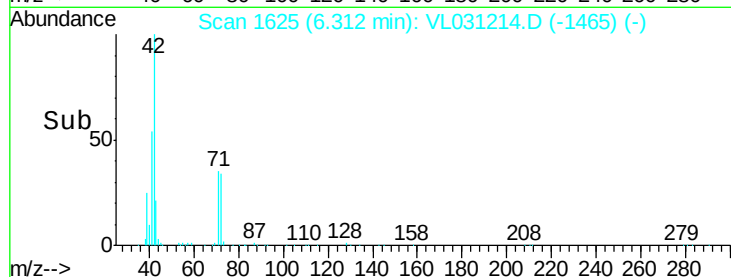
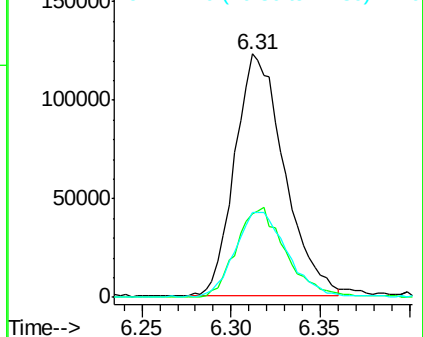
71 38.3 29.0 43.6



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: 0.95 ppbv

RT: 8.08 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

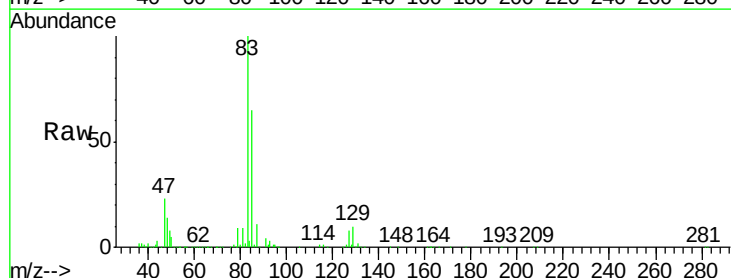
Tgt Ion: 83 Resp: 405179

Ion Ratio Lower Upper

83 100

85 65.3 51.5 77.3

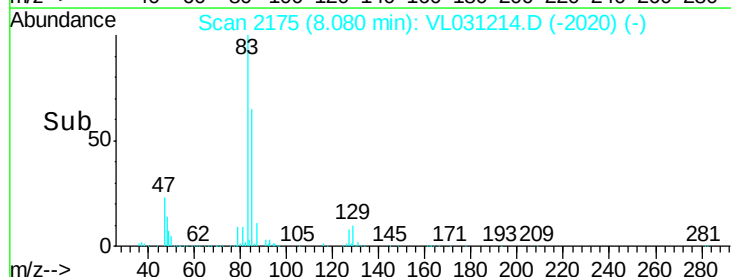
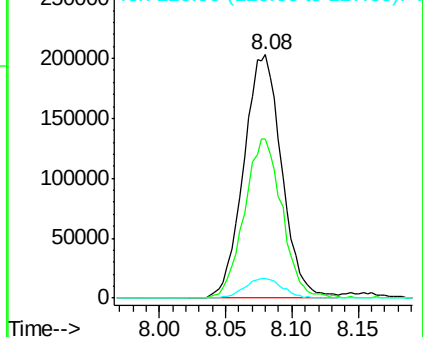
127 8.3 6.5 9.7

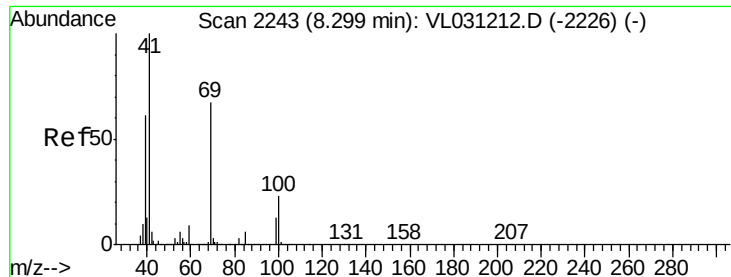


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

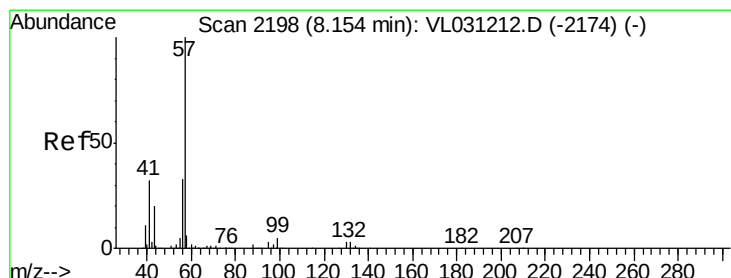
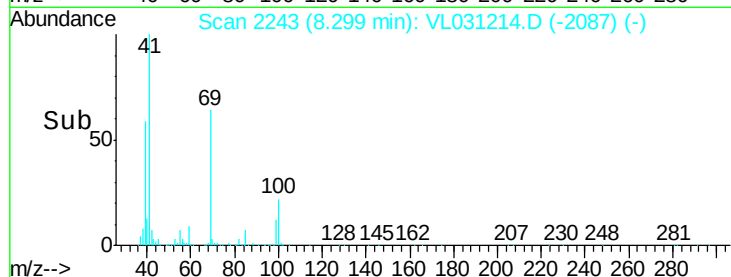
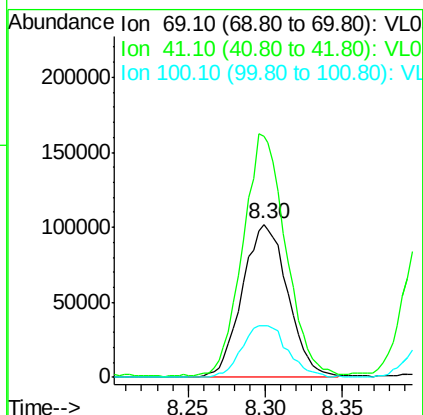
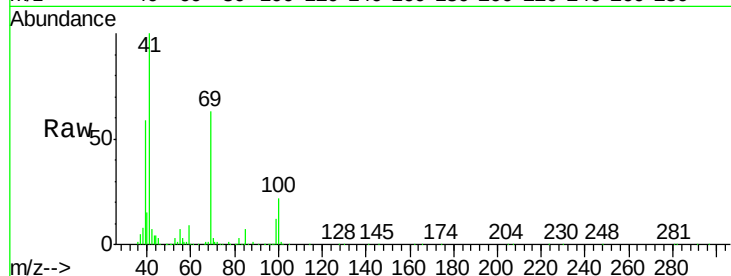




#43
Methyl Methacrylate
Concen: 0.97 ppbv
RT: 8.30 min Scan# 2243
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

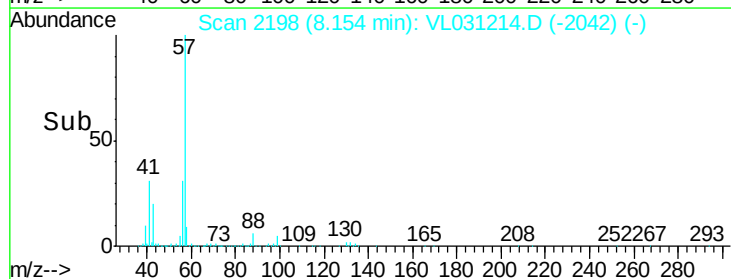
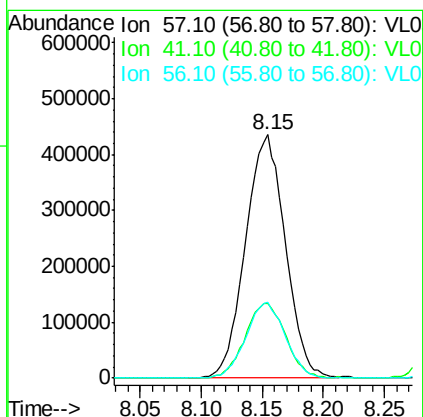
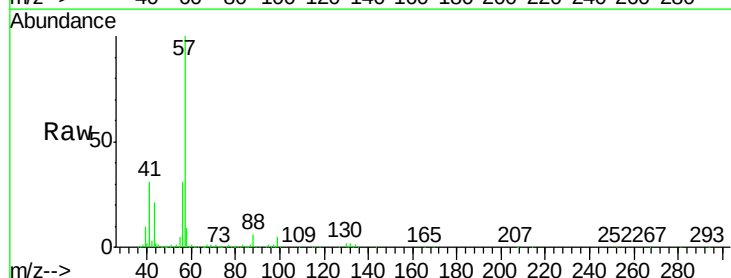
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

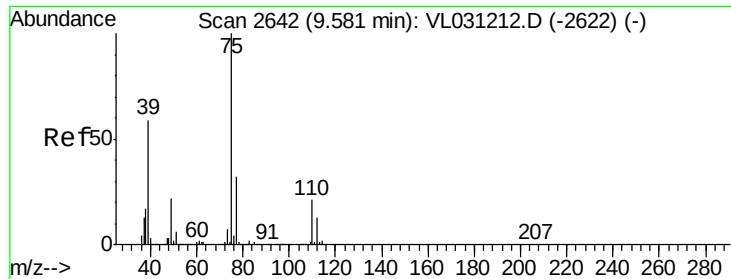
Tgt Ion: 69 Resp: 206503
Ion Ratio Lower Upper
69 100
41 151.3 121.1 181.7
100 34.6 27.4 41.2



#44
2,2,4-Trimethylpentane
Concen: 0.97 ppbv
RT: 8.15 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion: 57 Resp: 980883
Ion Ratio Lower Upper
57 100
41 31.2 25.5 38.3
56 30.6 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 1.00 ppbv

RT: 9.58 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

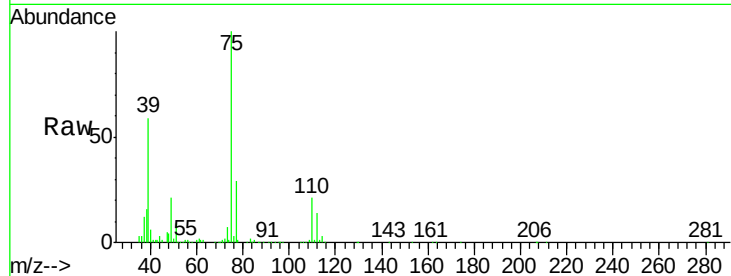
VSTDIC001

Tgt Ion: 75 Resp: 263146

Ion Ratio Lower Upper

75 100

77 29.3 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

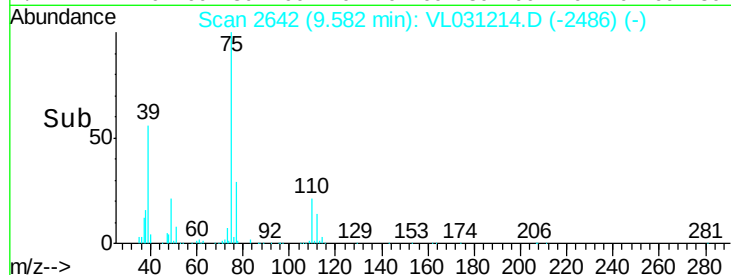
150000

100000

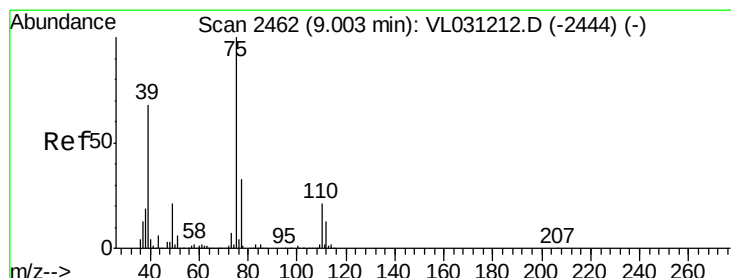
50000

0

9.50 9.55 9.60 9.65



Time-->



#46

cis-1,3-Dichloropropene

Concen: 0.98 ppbv

RT: 9.00 min Scan# 2461

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

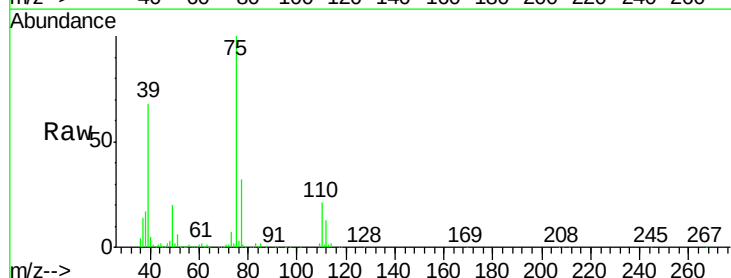
Tgt Ion: 75 Resp: 341724

Ion Ratio Lower Upper

75 100

39 66.9 54.2 81.4

77 32.4 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

200000

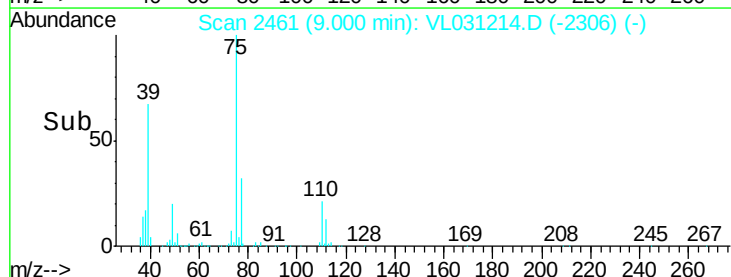
150000

100000

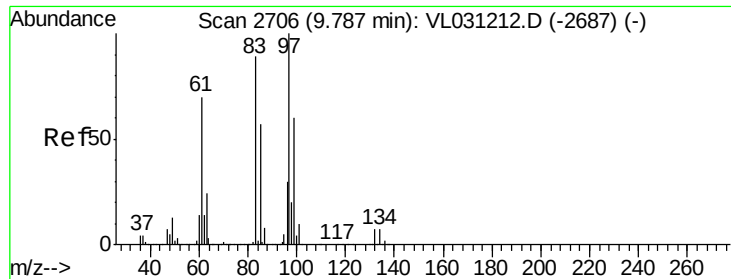
50000

0

8.95 9.00 9.05



Time-->



#47

1,1,2-Trichloroethane

Concen: 0.91 ppbv

RT: 9.78 min Scan# 2704

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 223329

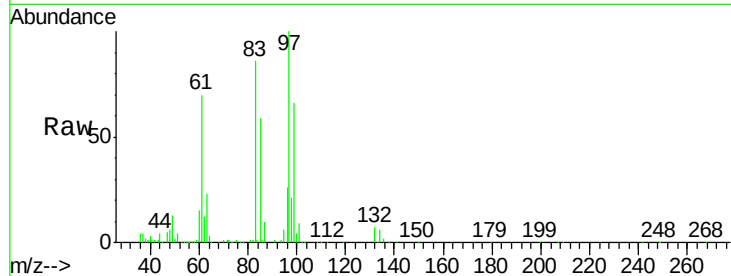
Ion Ratio Lower Upper

97 100

83 85.4 71.0 106.4

85 58.5 45.3 67.9

99 66.2 47.8 71.6

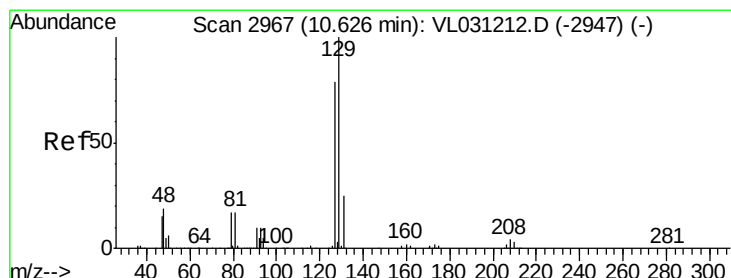
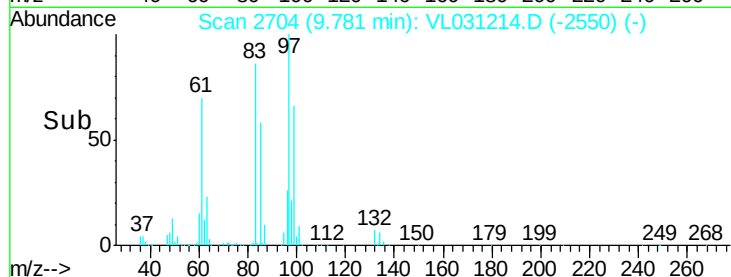
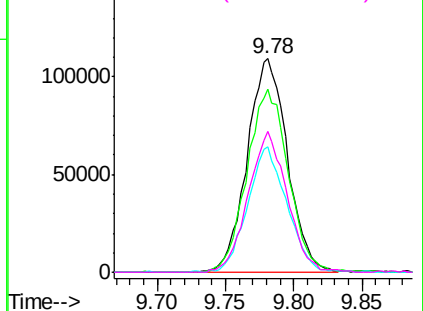


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 1.01 ppbv

RT: 10.62 min Scan# 2964

Delta R.T. -0.01 min

Lab File: VL031214.D

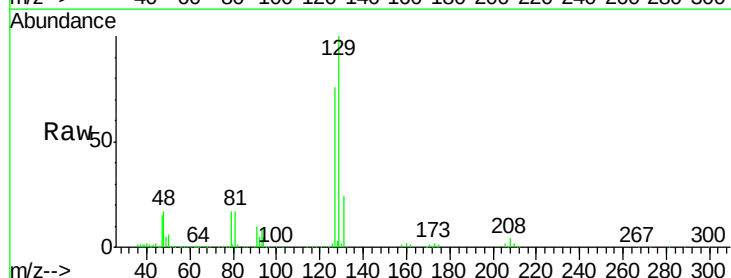
Acq: 13 Dec 2017 23:45

Tgt Ion: 129 Resp: 335266

Ion Ratio Lower Upper

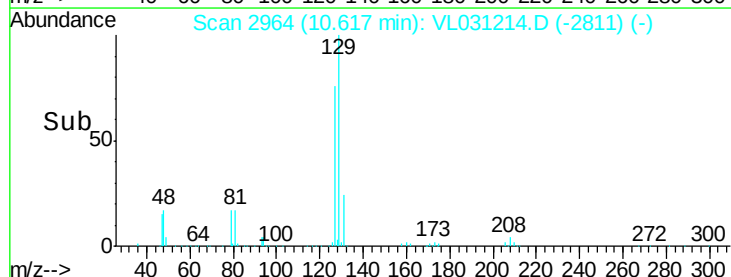
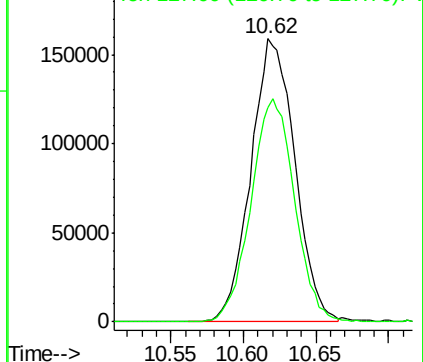
129 100

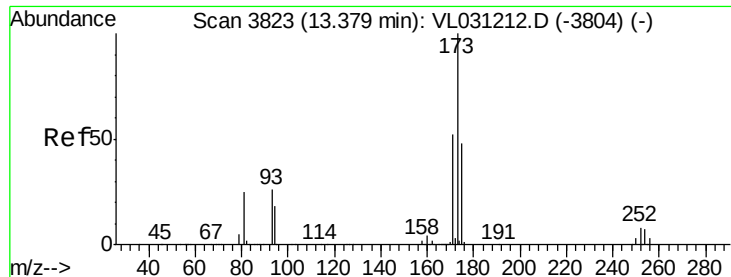
127 78.5 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.92 ppbv

RT: 13.37 min Scan# 3821

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

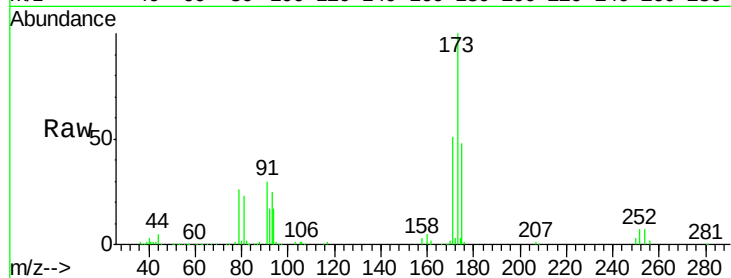
Tgt Ion: 173 Resp: 230309

Ion Ratio Lower Upper

173 100

175 48.3 39.0 58.4

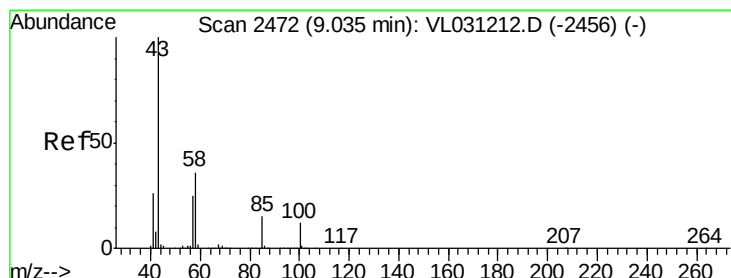
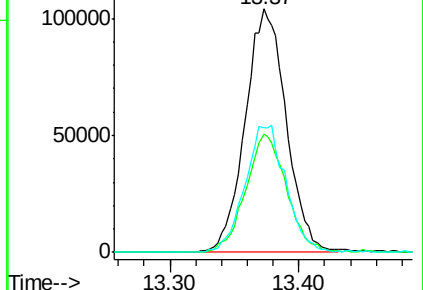
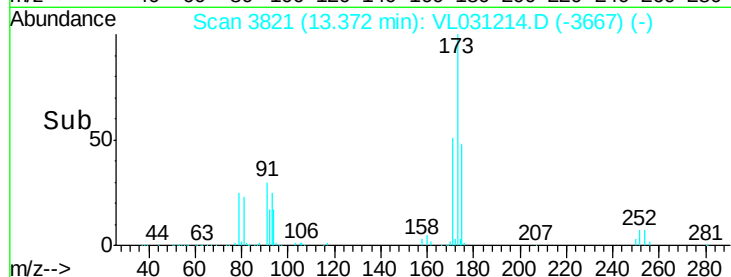
171 52.0 41.8 62.8



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: 0.92 ppbv

RT: 9.04 min Scan# 2474

Delta R.T. 0.01 min

Lab File: VL031214.D

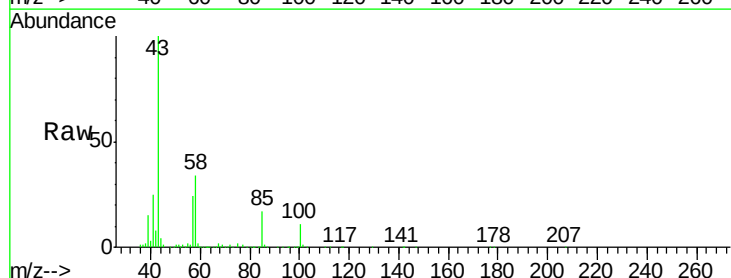
Acq: 13 Dec 2017 23:45

Tgt Ion: 43 Resp: 505837

Ion Ratio Lower Upper

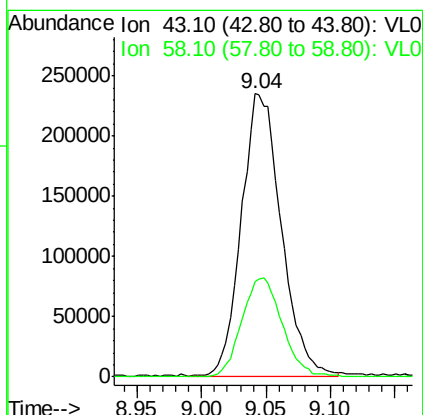
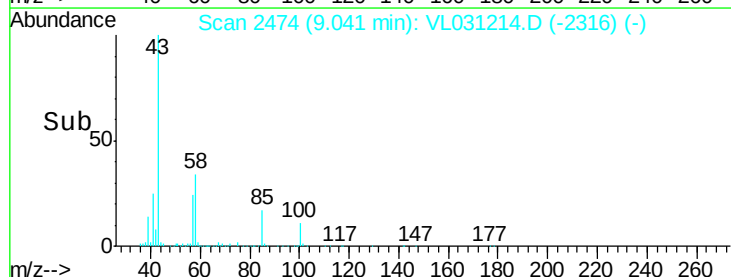
43 100

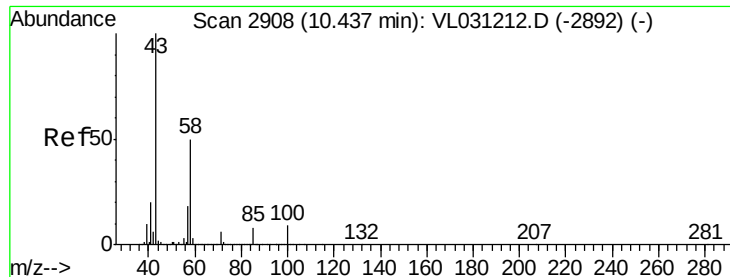
58 36.0 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

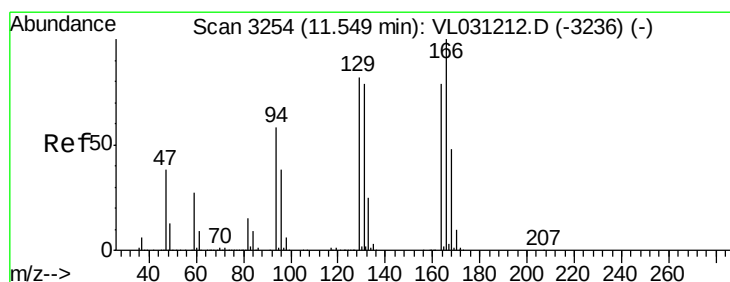
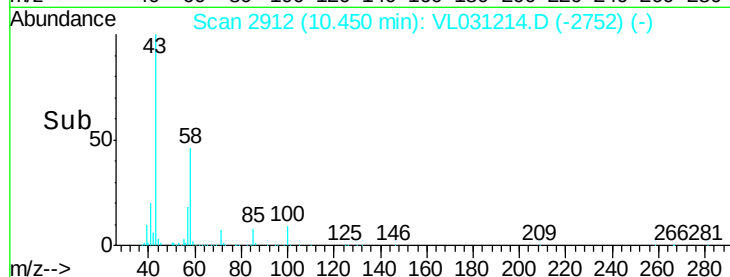
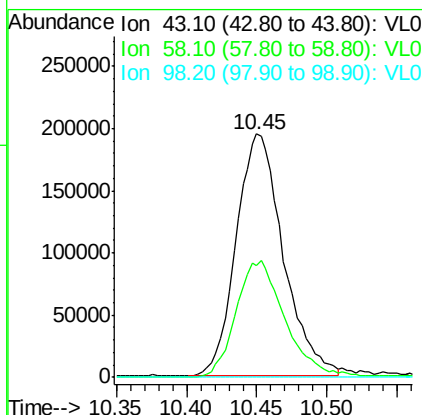
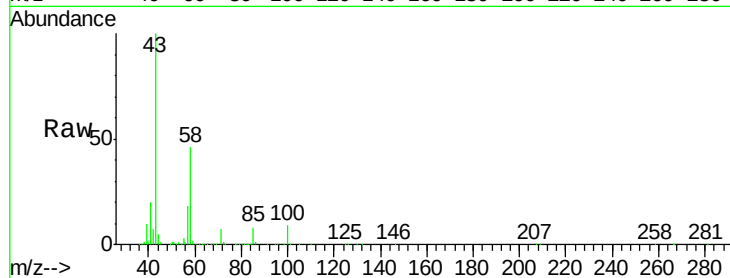




#51
2-Hexanone
Concen: 0.88 ppbv
RT: 10.45 min Scan# 2912
Delta R.T. 0.01 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

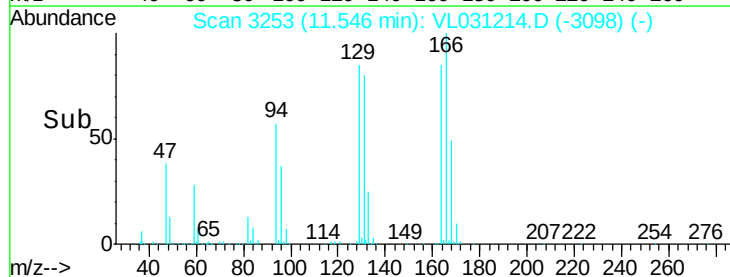
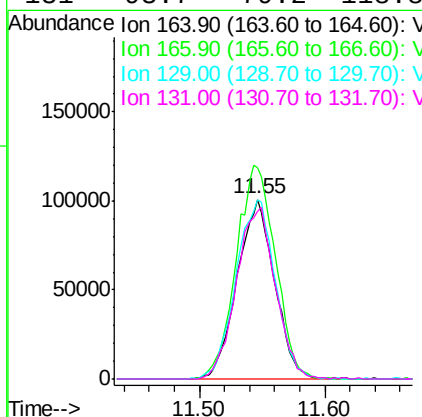
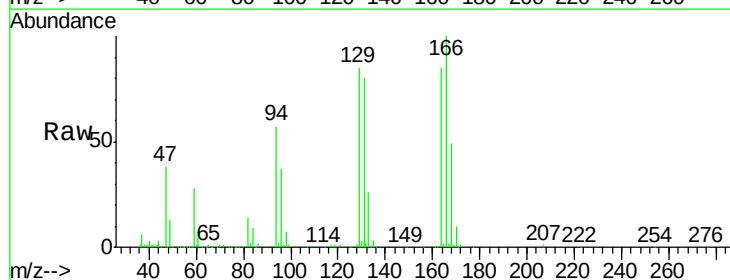
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

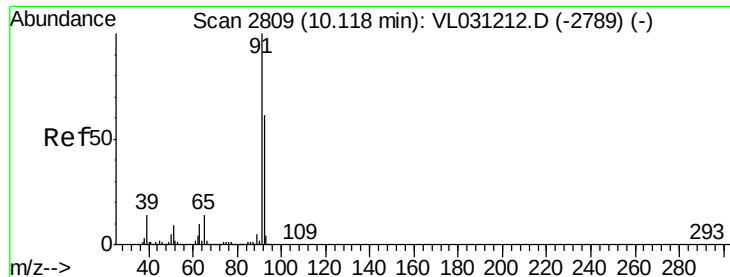
Tgt Ion: 43 Resp: 456366
Ion Ratio Lower Upper
43 100
58 51.2 39.8 59.6
98 0.1 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.97 ppbv
RT: 11.55 min Scan# 3253
Delta R.T. -0.00 min
Lab File: VL031214.D
Acq: 13 Dec 2017 23:45

Tgt Ion: 164 Resp: 208816
Ion Ratio Lower Upper
164 100
166 117.7 100.6 151.0
129 100.2 82.9 124.3
131 93.7 79.2 118.8





#53

Toluene

Concen: 0.97 ppbv

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

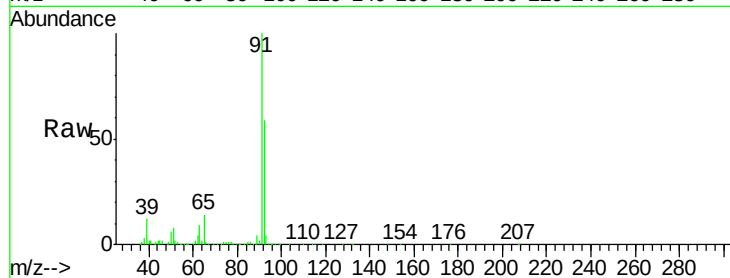
VSTDIC001

Tgt Ion: 91 Resp: 668029

Ion Ratio Lower Upper

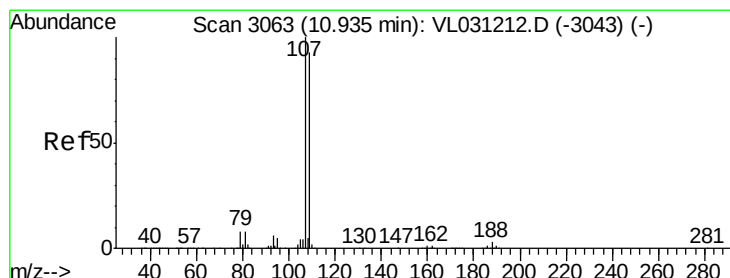
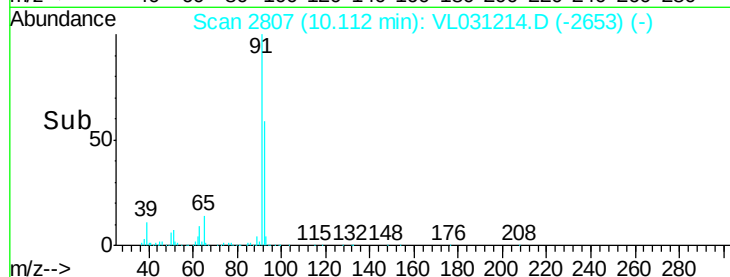
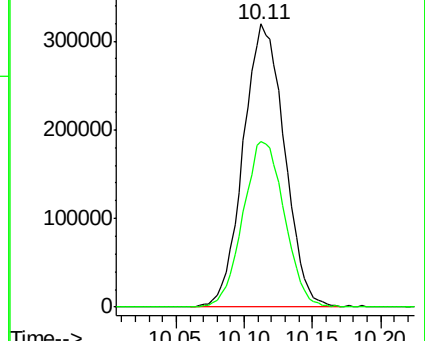
91 100

92 59.2 49.1 73.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.93 ppbv

RT: 10.93 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VL031214.D

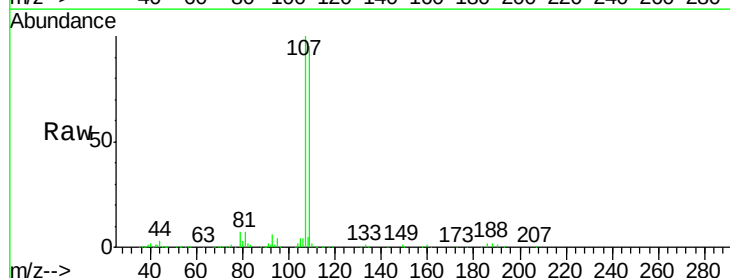
Acq: 13 Dec 2017 23:45

Tgt Ion: 107 Resp: 326425

Ion Ratio Lower Upper

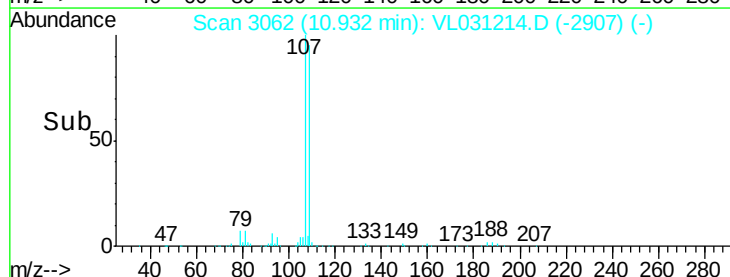
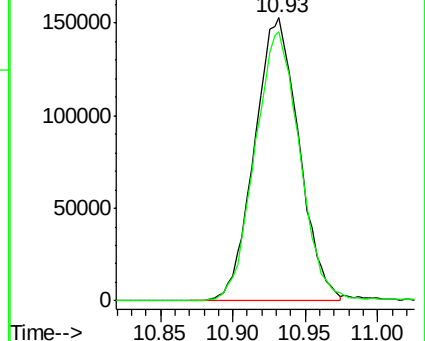
107 100

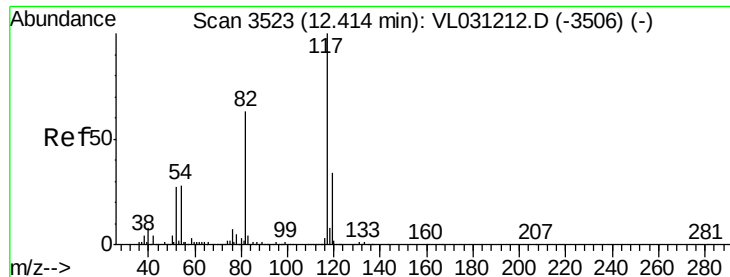
109 95.0 74.7 112.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.41 min Scan# 3522

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

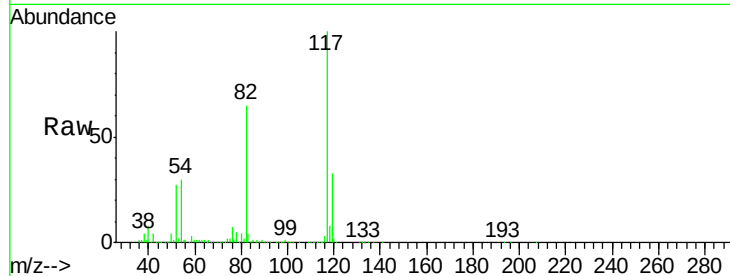
Tgt Ion:117 Resp: 4553144

Ion Ratio Lower Upper

117 100

82 61.7 48.1 72.1

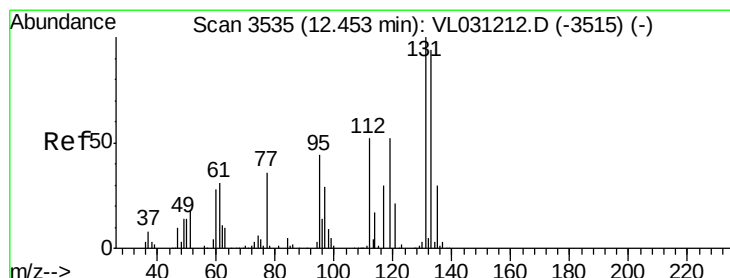
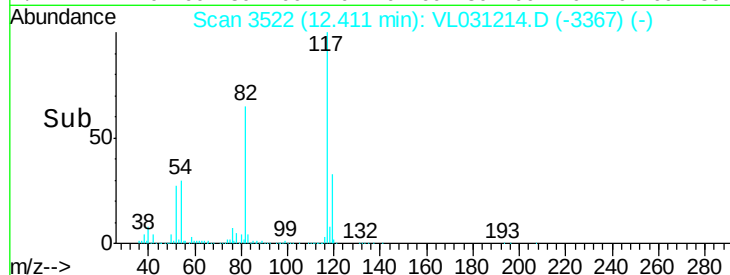
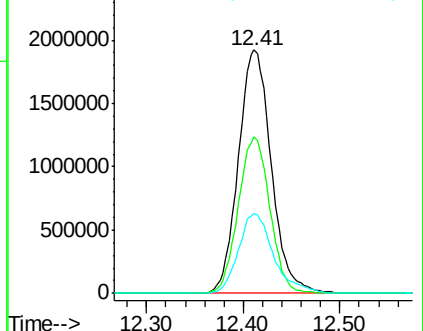
119 35.0 23.1 34.7#



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



#56

1,1,1,2-Tetrachloroethane

Concen: 1.24 ppbv

RT: 12.45 min Scan# 3535

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

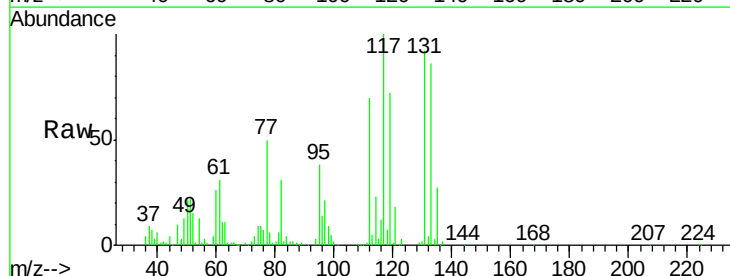
Tgt Ion:131 Resp: 231849

Ion Ratio Lower Upper

131 100

133 95.8 76.1 114.1

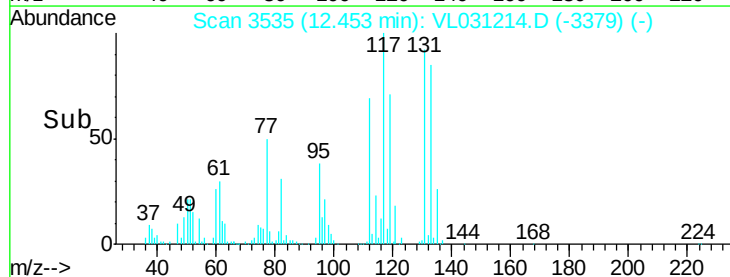
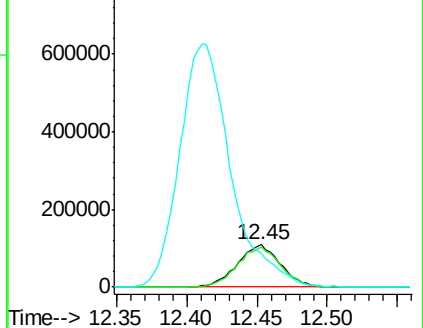
119 687.5 108.5 162.7#

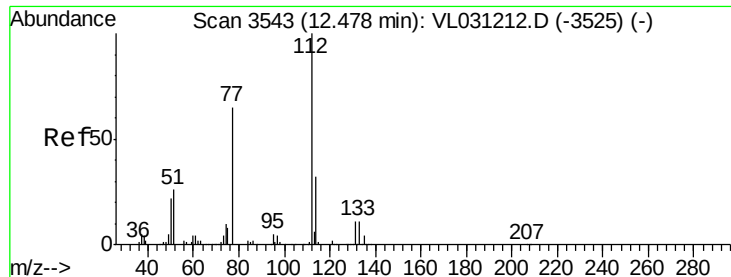


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 1.10 ppbv

RT: 12.47 min Scan# 3541

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

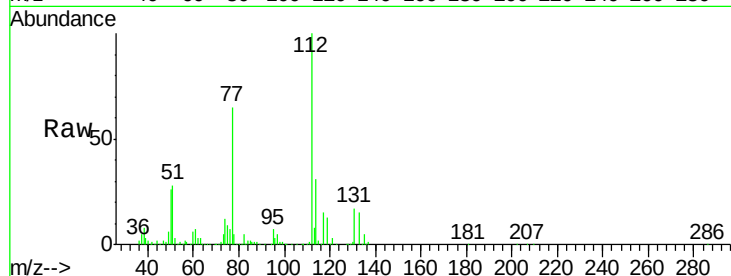
Tgt Ion: 112 Resp: 489064

Ion Ratio Lower Upper

112 100

77 64.4 52.9 79.3

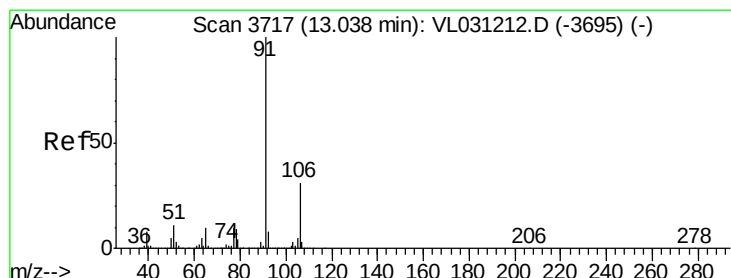
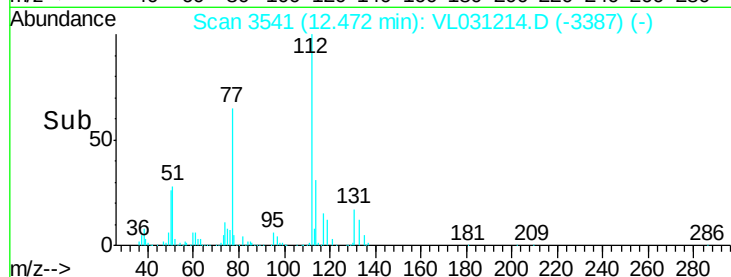
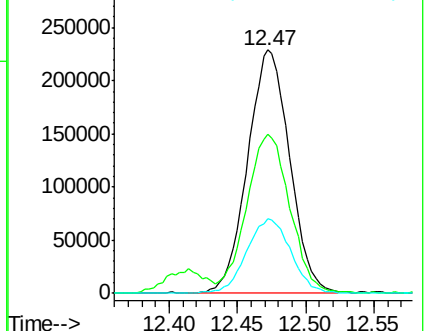
114 30.3 29.1 35.5



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.10 ppbv

RT: 13.03 min Scan# 3715

Delta R.T. -0.01 min

Lab File: VL031214.D

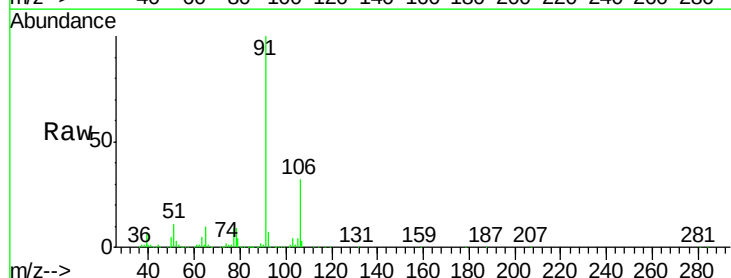
Acq: 13 Dec 2017 23:45

Tgt Ion: 91 Resp: 857730

Ion Ratio Lower Upper

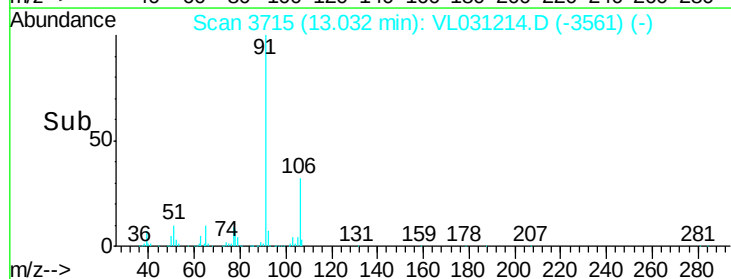
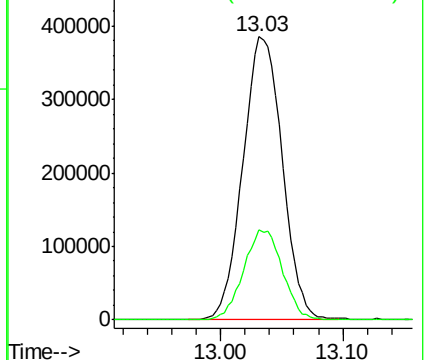
91 100

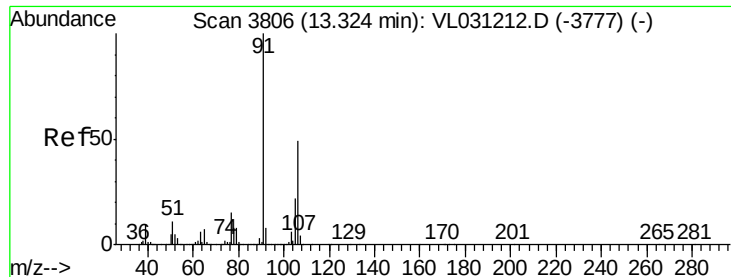
106 31.7 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.96 ppbv

RT: 13.32 min Scan# 3804

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

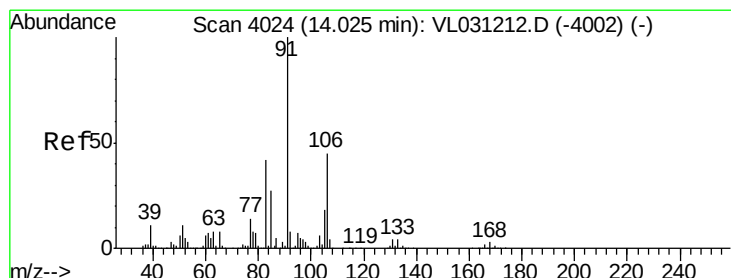
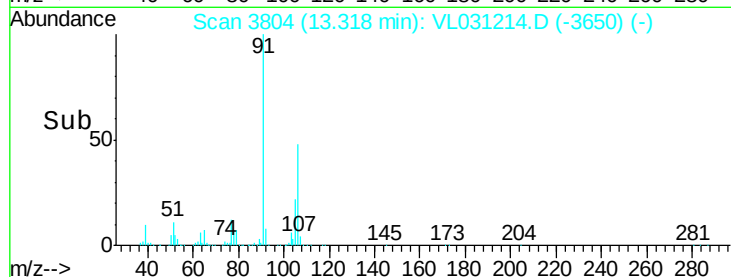
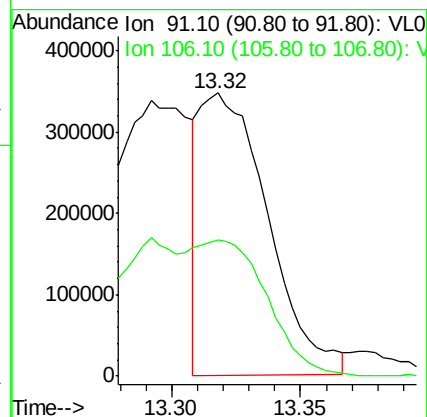
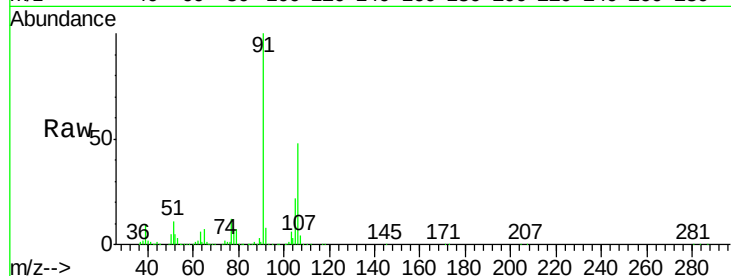
VSTDIC001

Tgt Ion: 91 Resp: 633697

Ion Ratio Lower Upper

91 100

106 0.0 38.5 57.7#



#60

o-Xylene

Concen: 1.05 ppbv

RT: 14.02 min Scan# 4023

Delta R.T. -0.00 min

Lab File: VL031214.D

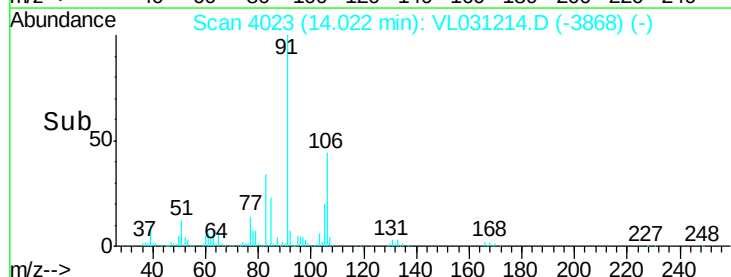
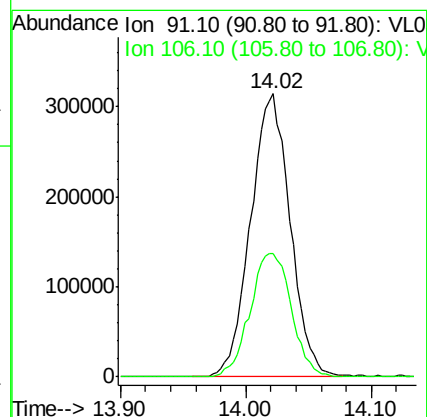
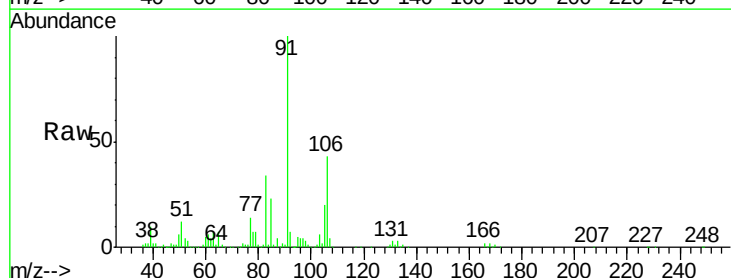
Acq: 13 Dec 2017 23:45

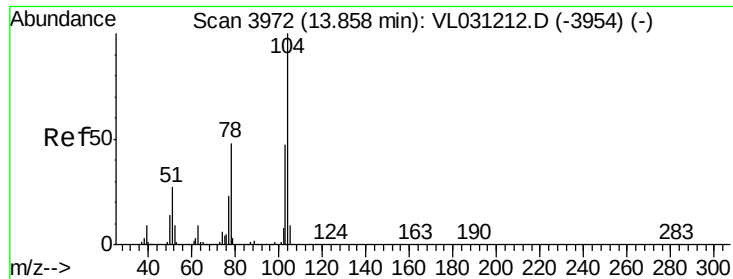
Tgt Ion: 91 Resp: 687075

Ion Ratio Lower Upper

91 100

106 45.7 22.7 68.1





#61

Styrene

Concen: 1.15 ppbv

RT: 13.85 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

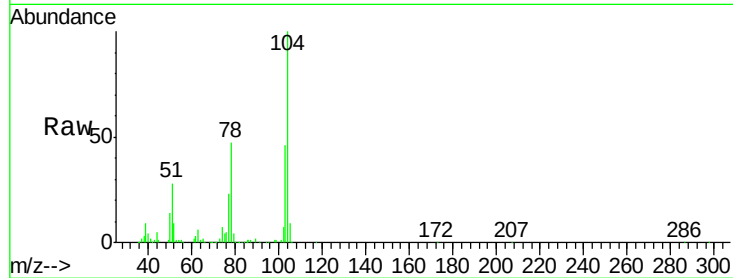
Tgt Ion:104 Resp: 189060

Ion Ratio Lower Upper

104 100

78 48.0 39.1 58.7

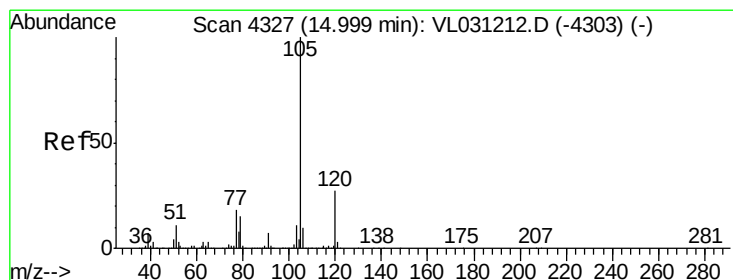
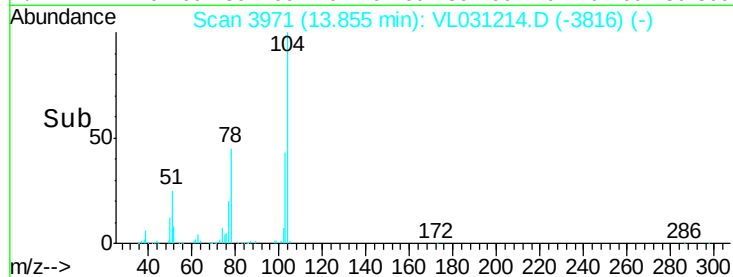
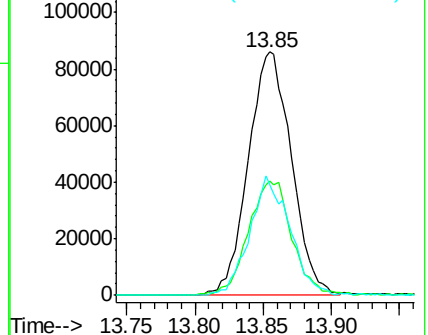
103 45.7 37.3 55.9



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: 1.15 ppbv

RT: 15.00 min Scan# 4326

Delta R.T. -0.00 min

Lab File: VL031214.D

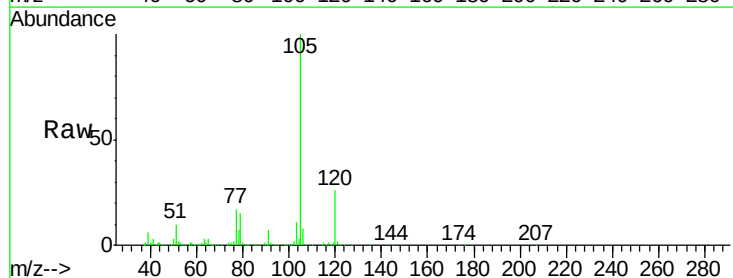
Acq: 13 Dec 2017 23:45

Tgt Ion:105 Resp: 901523

Ion Ratio Lower Upper

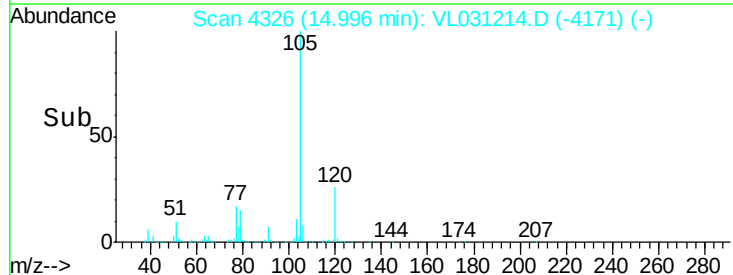
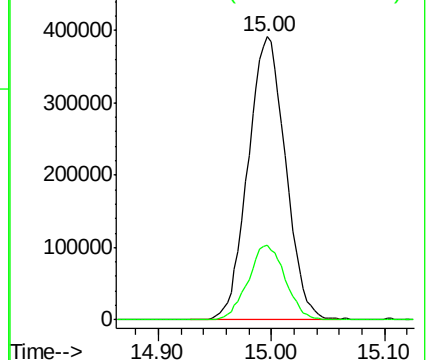
105 100

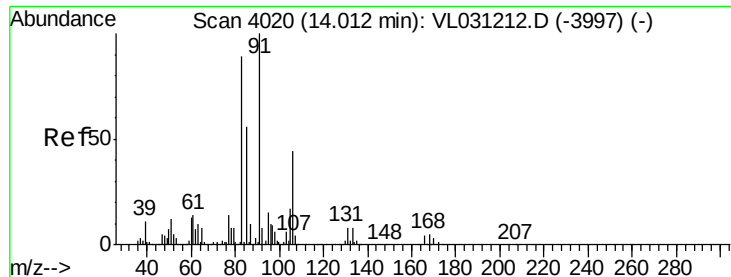
120 26.3 21.0 31.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

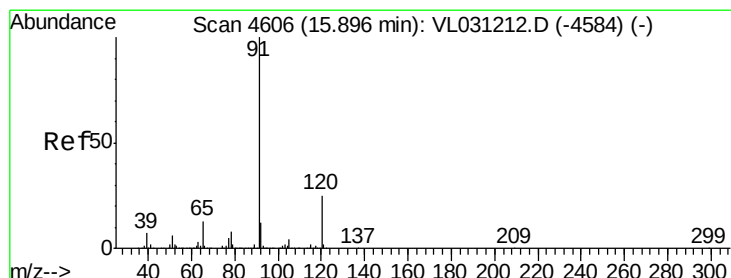
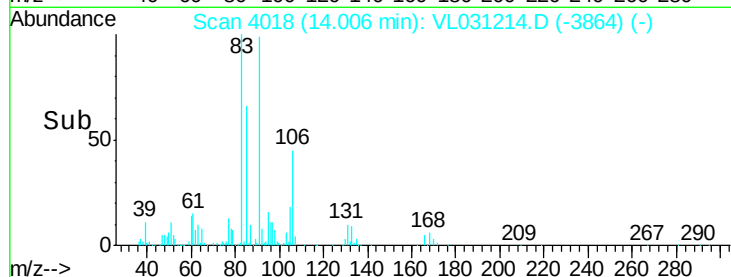
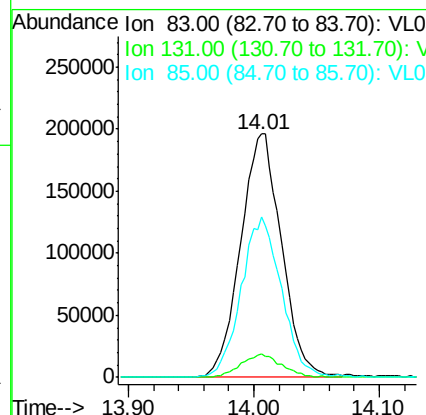
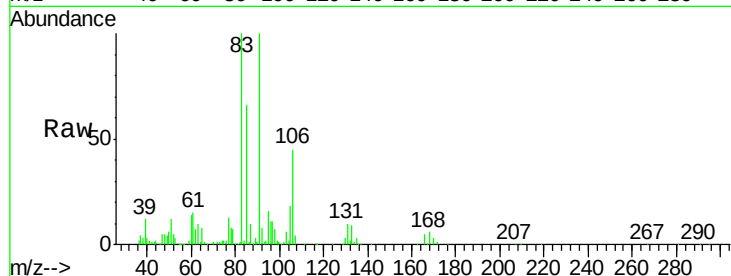




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.87 ppbv
 RT: 14.01 min Scan# 4018
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

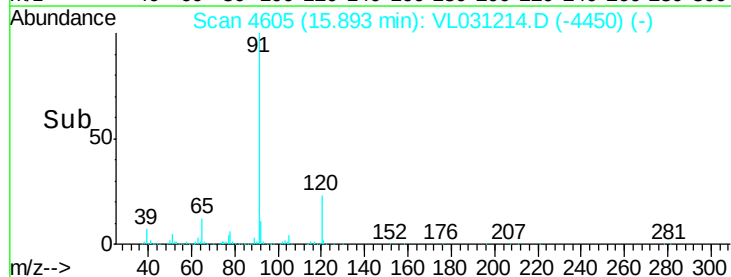
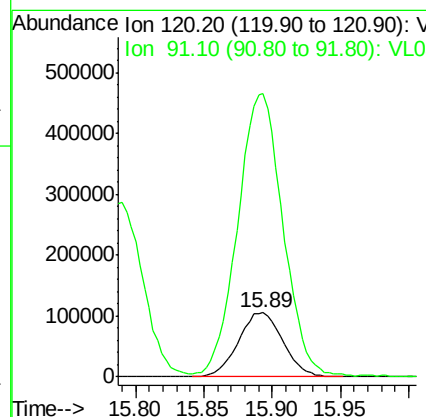
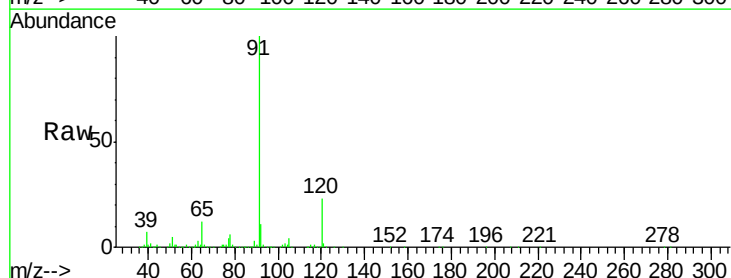
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

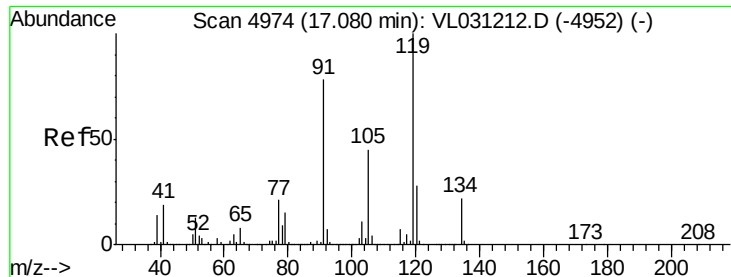
Tgt Ion: 83 Resp: 442335
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.3
 85 65.3 32.1 96.5



#64
 n-propylbenzene
 Concen: 1.11 ppbv
 RT: 15.89 min Scan# 4605
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion: 120 Resp: 238350
 Ion Ratio Lower Upper
 120 100
 91 451.9 352.1 528.1





#65

tert-Butylbenzene

Concen: 1.18 ppbv

RT: 17.08 min Scan# 4973

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

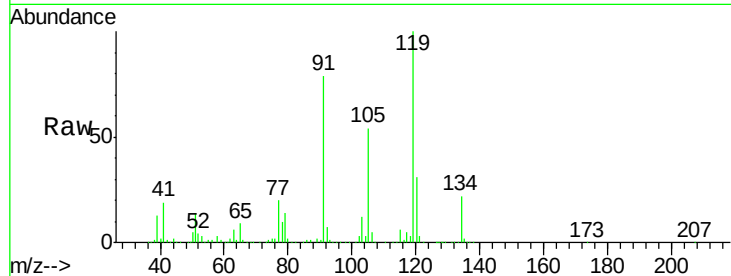
Tgt Ion: 119 Resp: 812378

Ion Ratio Lower Upper

119 100

91 77.3 63.3 94.9

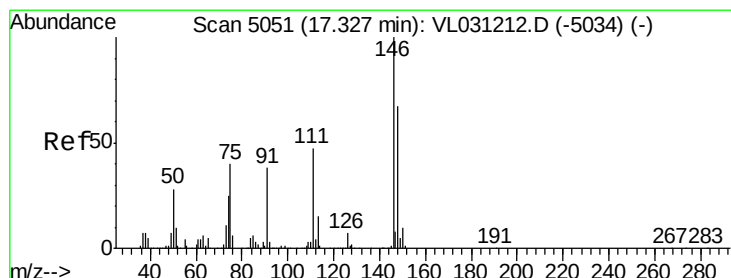
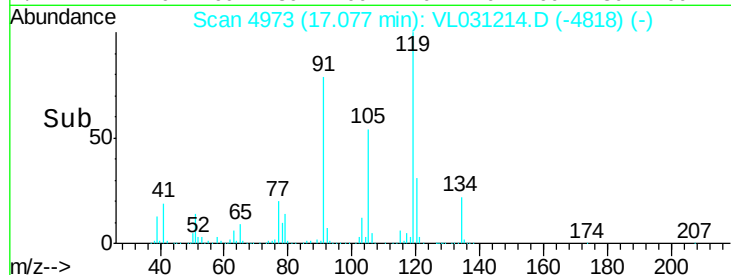
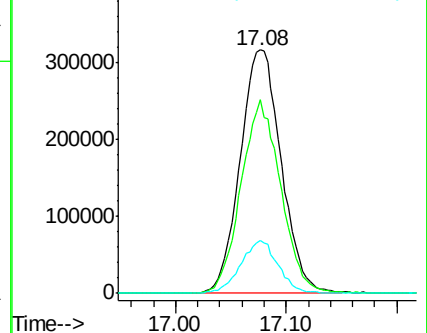
134 19.8 16.1 24.1



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 1.35 ppbv

RT: 17.33 min Scan# 5051

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

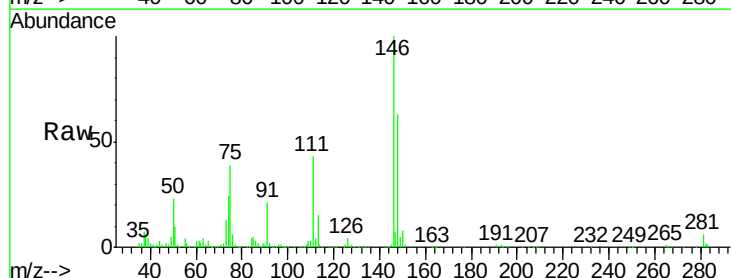
Tgt Ion: 91 Resp: 79460

Ion Ratio Lower Upper

91 100

126 21.8 15.2 22.8

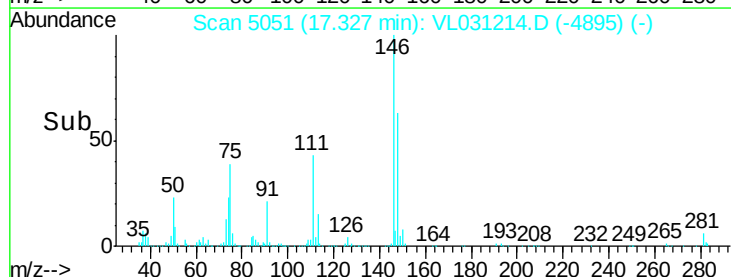
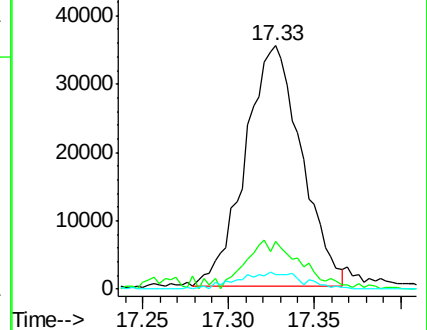
128 8.1 4.9 7.3#

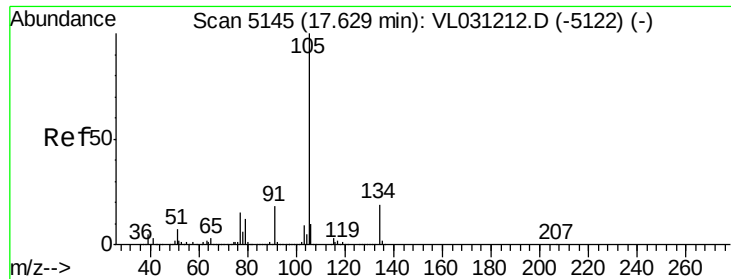


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 1.07 ppbv

RT: 17.63 min Scan# 5144

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

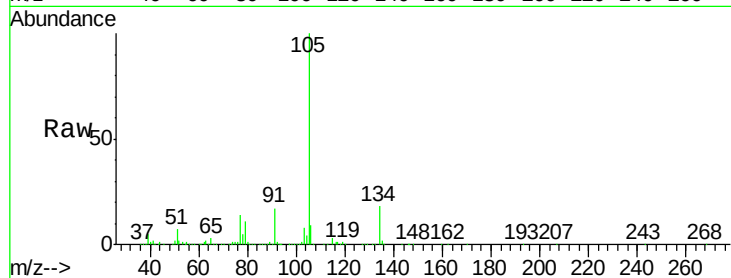
VSTDIC001

Tgt Ion:105 Resp: 1110498

Ion Ratio Lower Upper

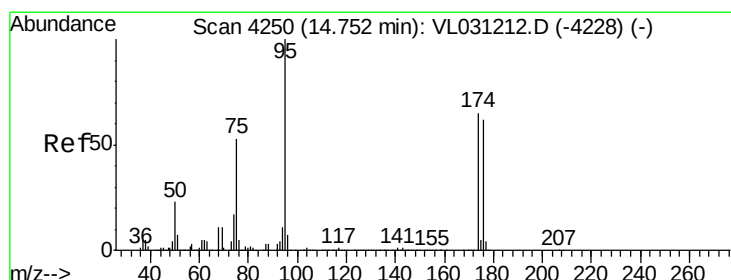
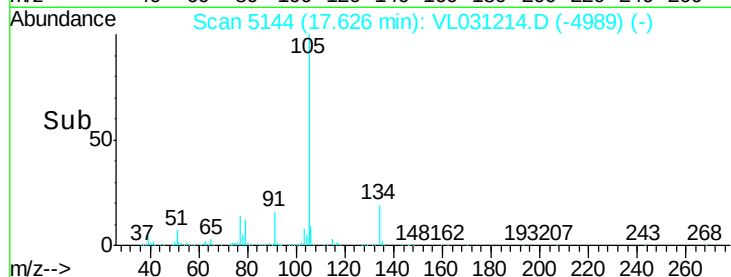
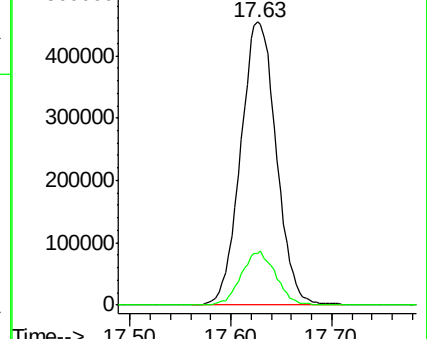
105 100

134 18.6 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: 9.15 ppbv

RT: 14.75 min Scan# 4249

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

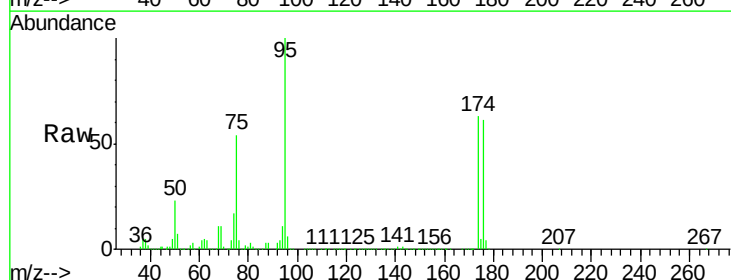
Tgt Ion: 95 Resp: 3219547

Ion Ratio Lower Upper

95 100

174 65.9 52.5 78.7

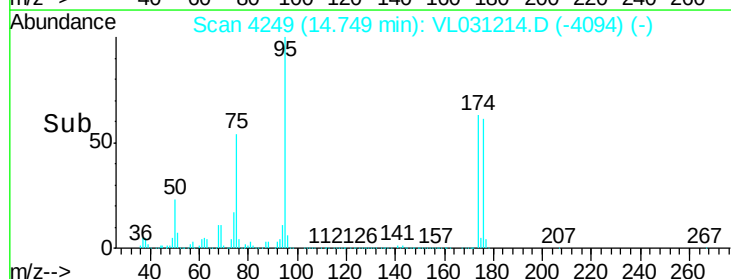
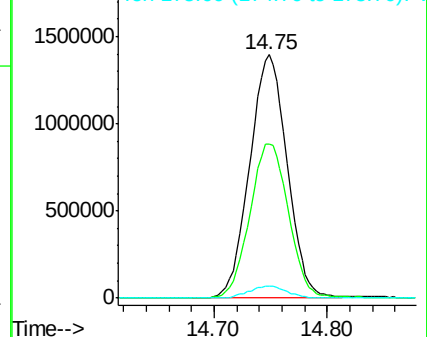
175 5.0 4.1 6.1

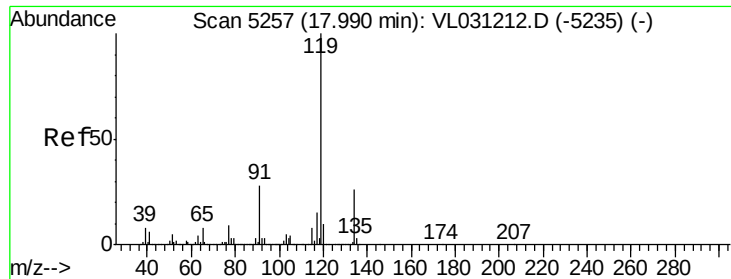


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 1.15 ppbv

RT: 17.98 min Scan# 5255

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

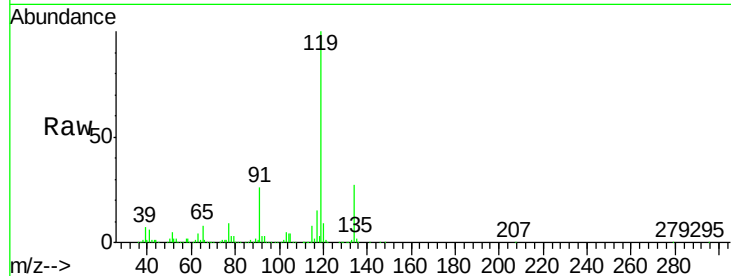
Tgt Ion: 119 Resp: 921311

Ion Ratio Lower Upper

119 100

134 25.8 20.7 31.1

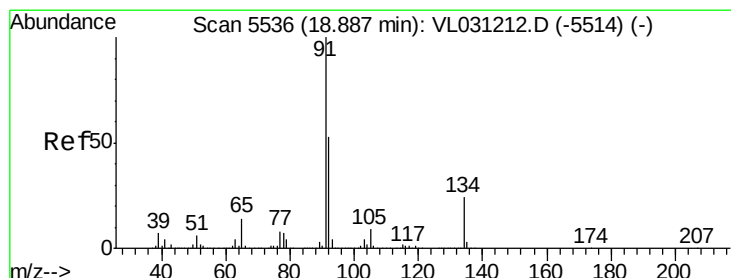
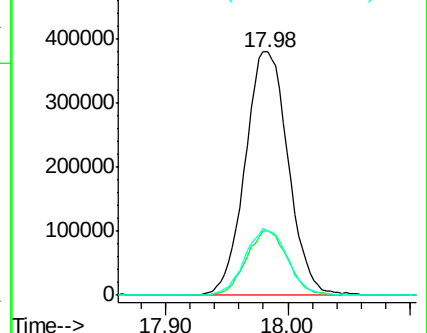
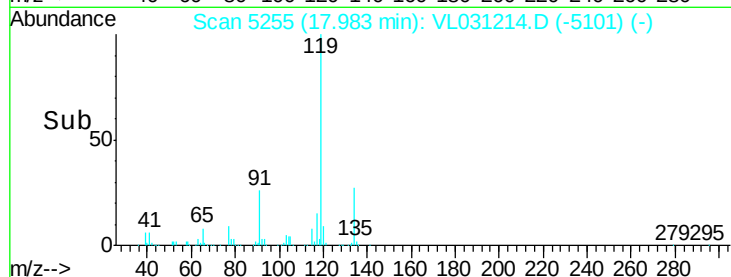
91 27.6 22.3 33.5



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: 1.01 ppbv

RT: 18.88 min Scan# 5534

Delta R.T. -0.01 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

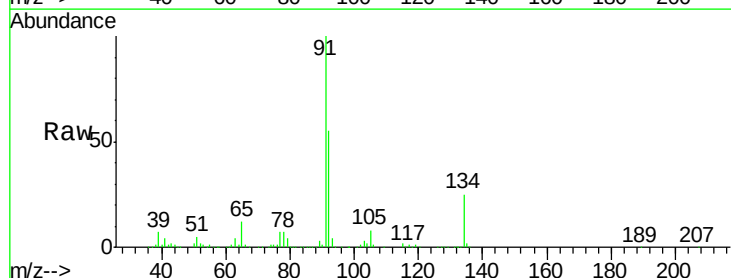
Tgt Ion: 91 Resp: 892777

Ion Ratio Lower Upper

91 100

92 53.6 43.4 65.2

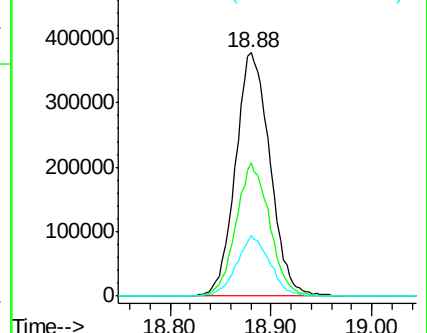
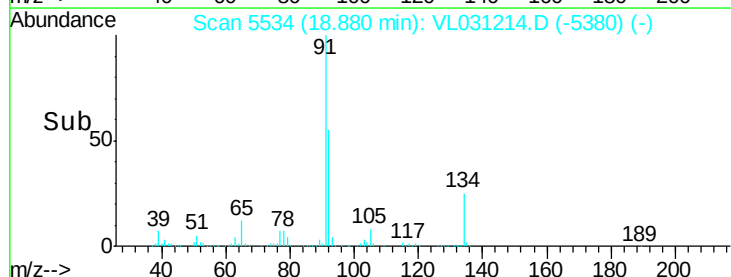
134 24.0 19.3 28.9

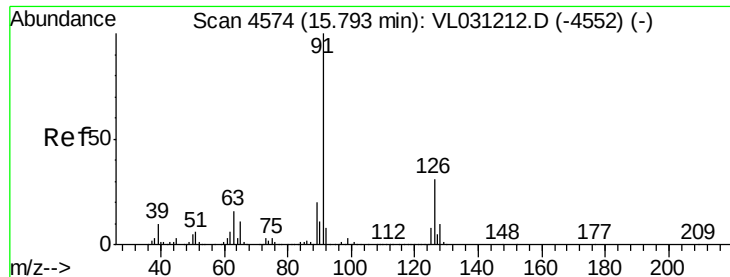


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 1.05 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

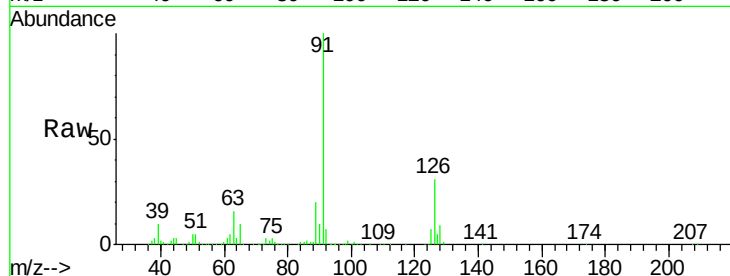
VSTDIC001

Tgt Ion: 91 Resp: 665926

Ion Ratio Lower Upper

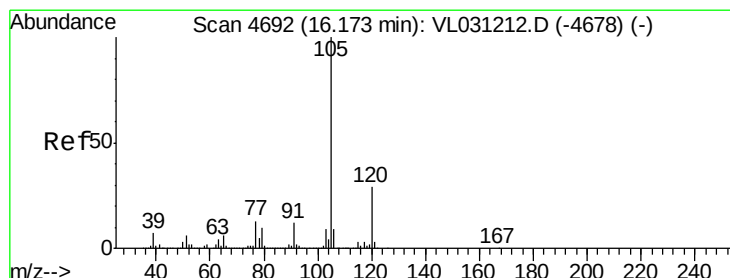
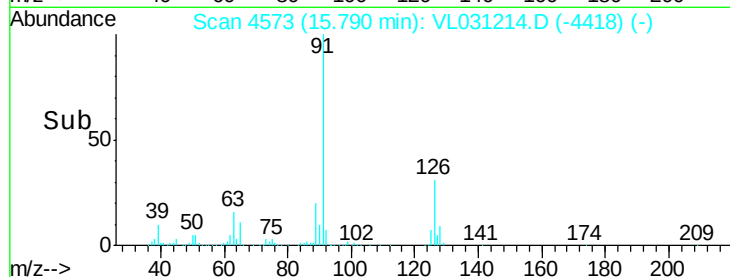
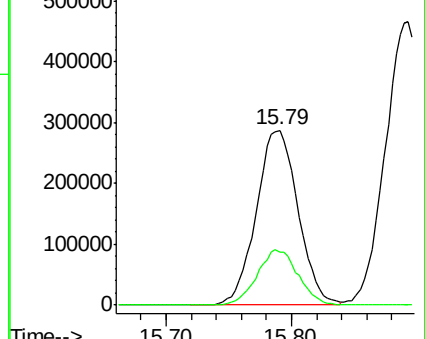
91 100

126 31.3 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: 1.12 ppbv

RT: 16.17 min Scan# 4691

Delta R.T. -0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Tgt Ion: 105 Resp: 742189

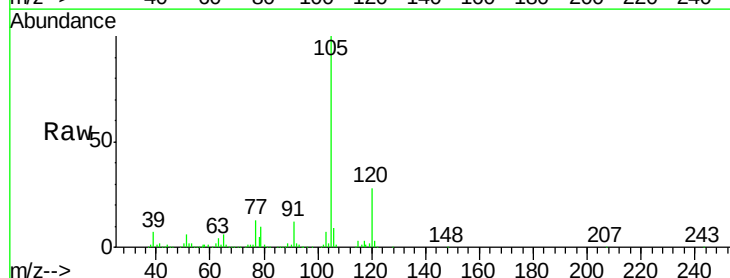
Ion Ratio Lower Upper

105 100

120 30.6 24.2 36.2

91 11.9 9.8 14.8

77 13.1 10.5 15.7

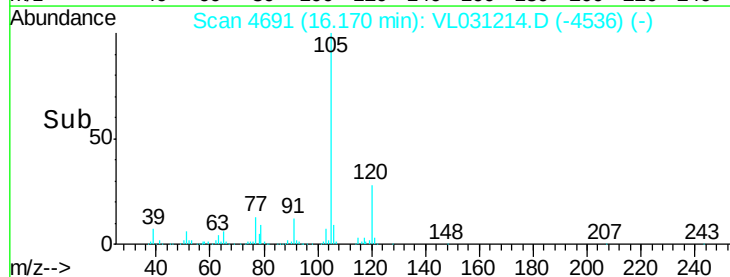
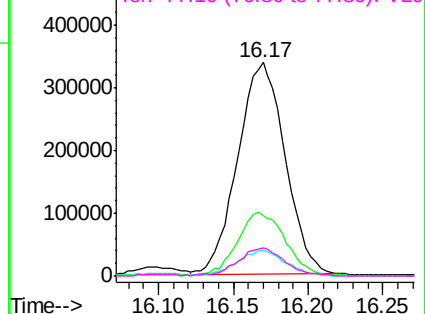


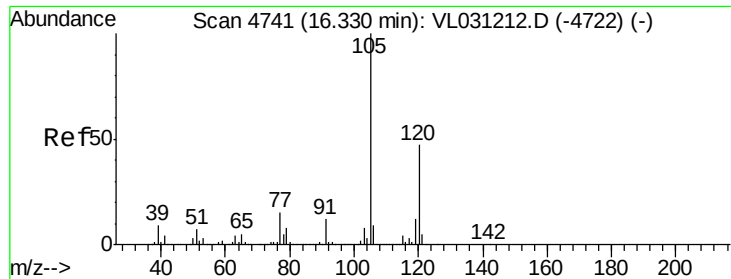
Abundance Ion 105.10 (104.80 to 105.80): V

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

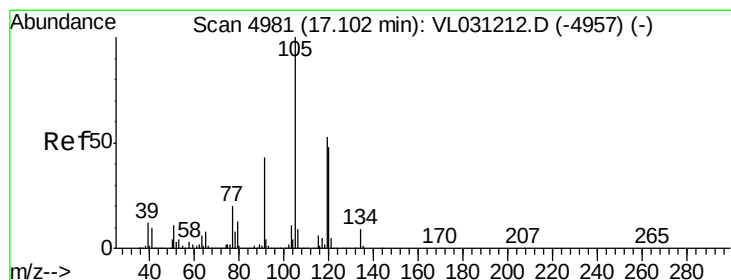
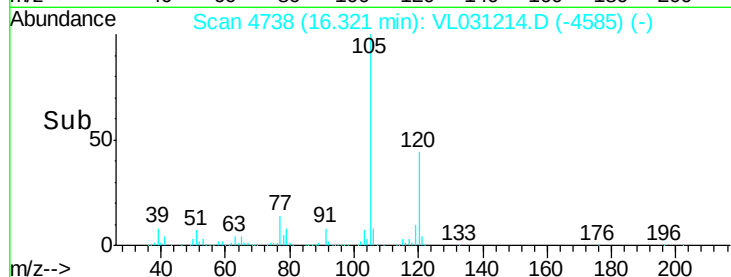
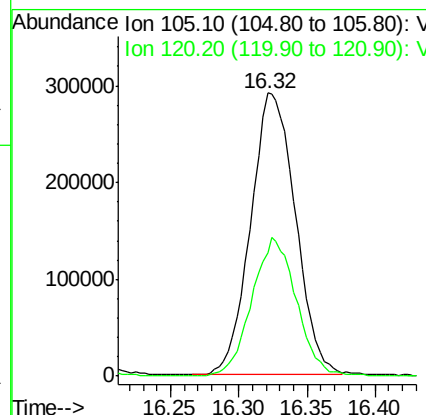
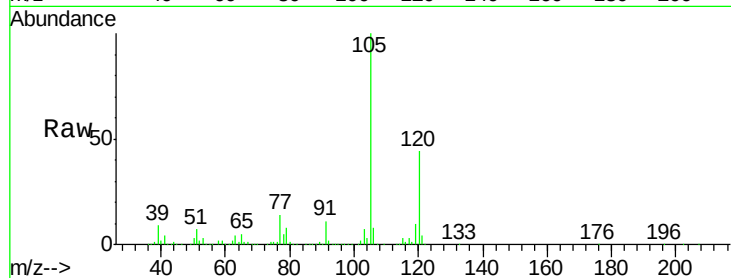




#73
 1,3,5-Trimethylbenzene
 Concen: 1.09 ppbv
 RT: 16.32 min Scan# 4738
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

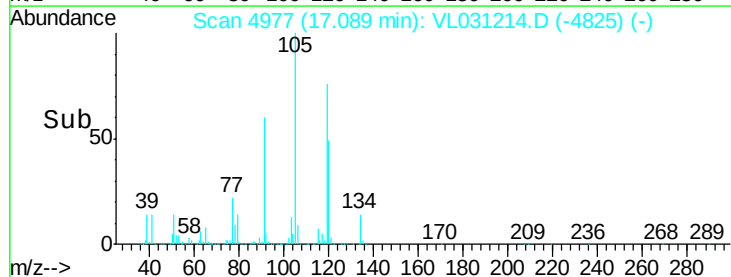
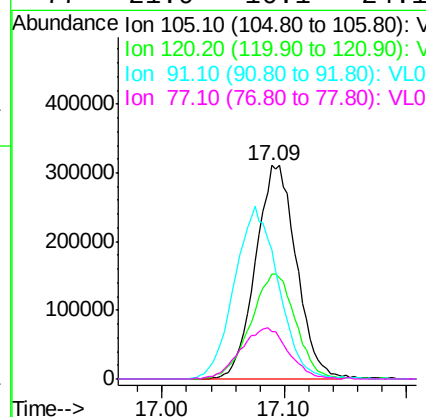
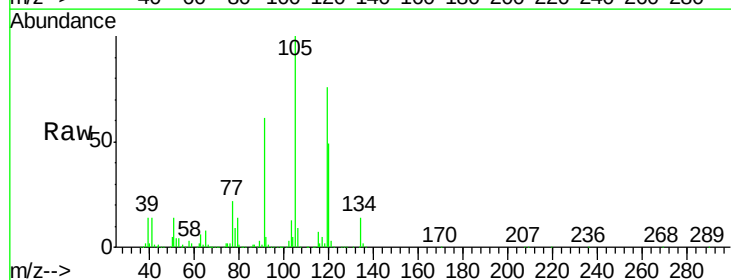
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

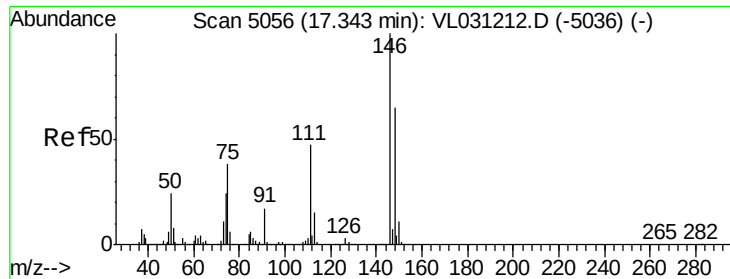
Tgt Ion:105 Resp: 664144
 Ion Ratio Lower Upper
 105 100
 120 43.6 37.8 56.6



#74
 1,2,4-Trimethylbenzene
 Concen: 1.07 ppbv
 RT: 17.09 min Scan# 4977
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion:105 Resp: 719730
 Ion Ratio Lower Upper
 105 100
 120 48.8 38.6 58.0
 91 59.7 34.2 51.4#
 77 21.9 16.1 24.1

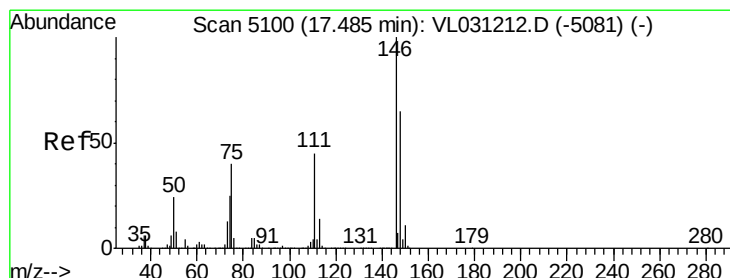
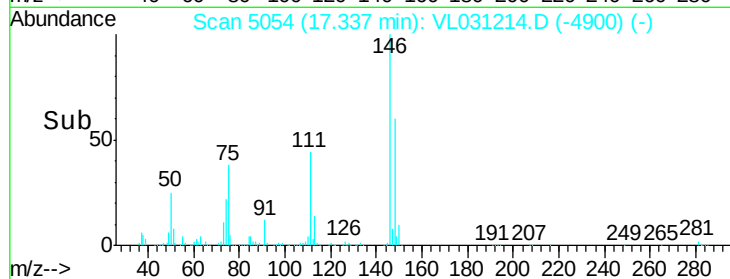
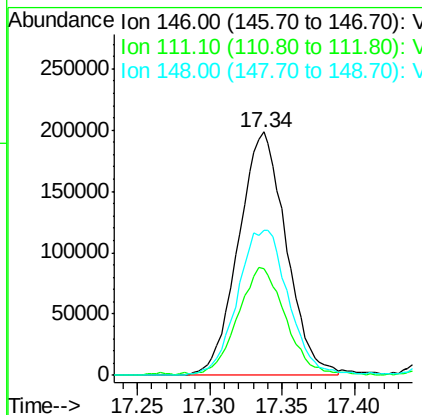
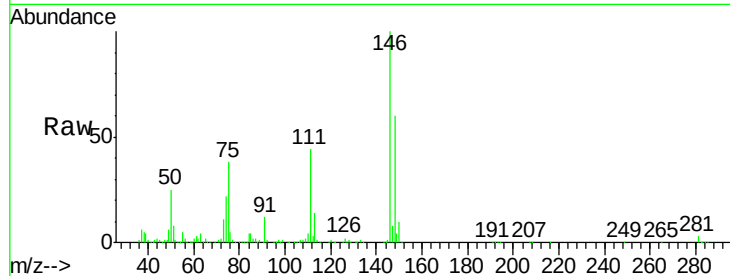




#75
 1,3-Dichlorobenzene
 Concen: 1.06 ppbv
 RT: 17.34 min Scan# 5054
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

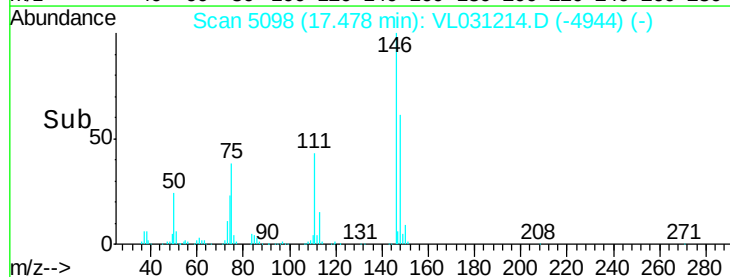
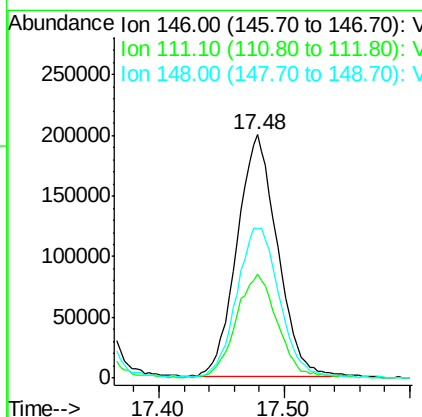
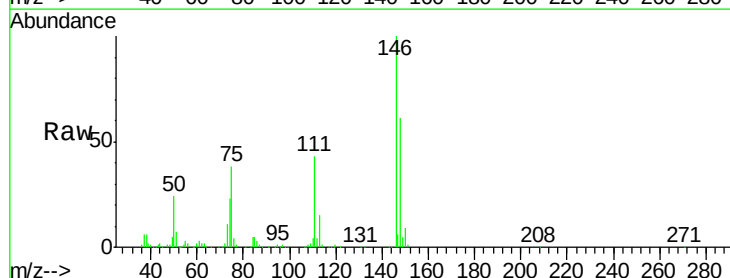
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

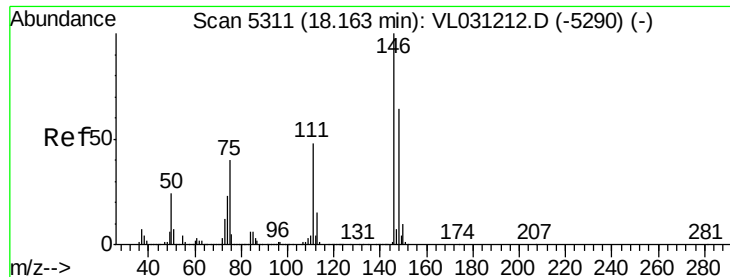
Tgt Ion:146 Resp: 451087
 Ion Ratio Lower Upper
 146 100
 111 45.8 22.7 68.1
 148 64.7 32.0 96.2



#76
 1,4-Dichlorobenzene
 Concen: 1.04 ppbv
 RT: 17.48 min Scan# 5098
 Delta R.T. -0.01 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion:146 Resp: 446624
 Ion Ratio Lower Upper
 146 100
 111 45.0 22.1 66.1
 148 66.7 32.0 96.0

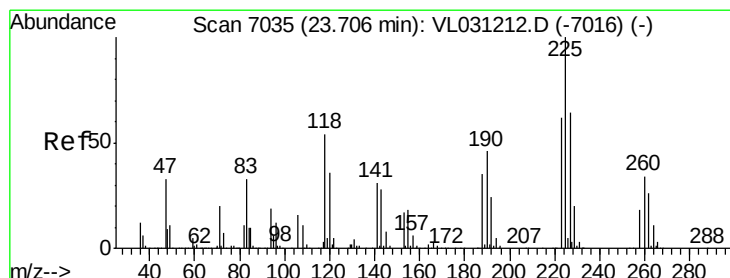
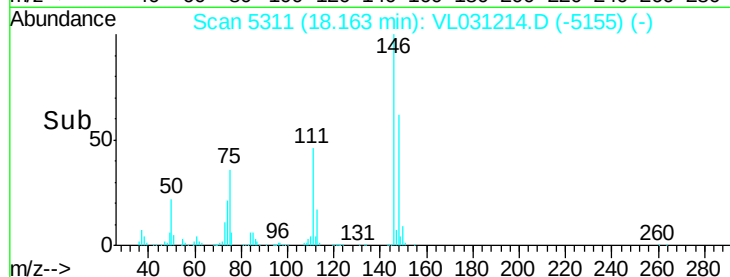
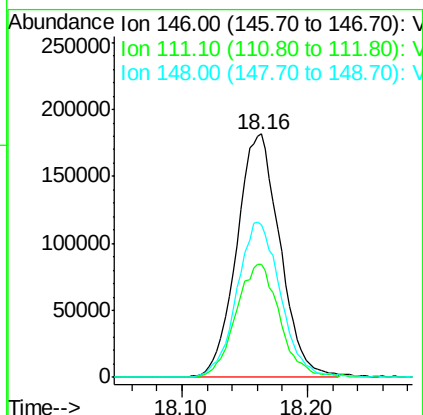
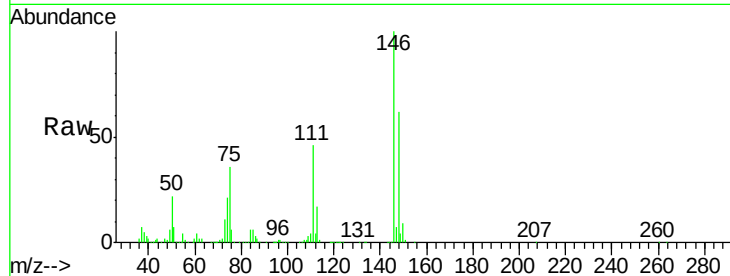




#77
 1,2-Dichlorobenzene
 Concen: 1.03 ppbv
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

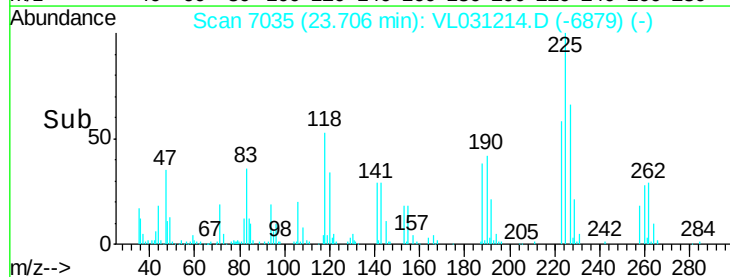
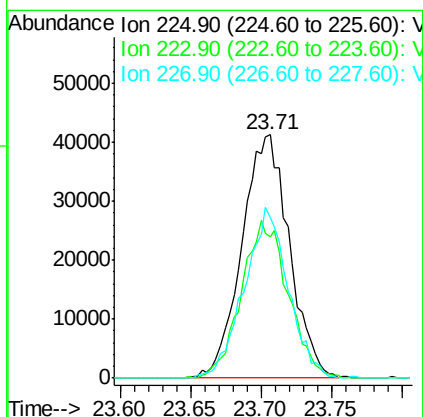
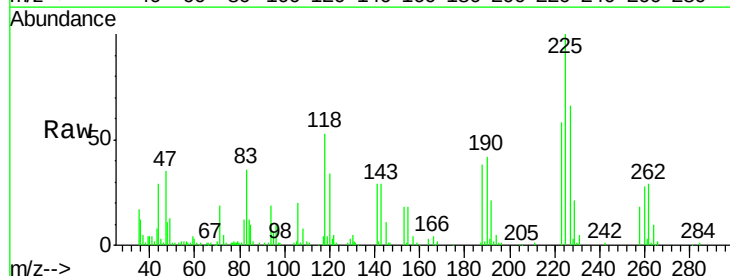
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

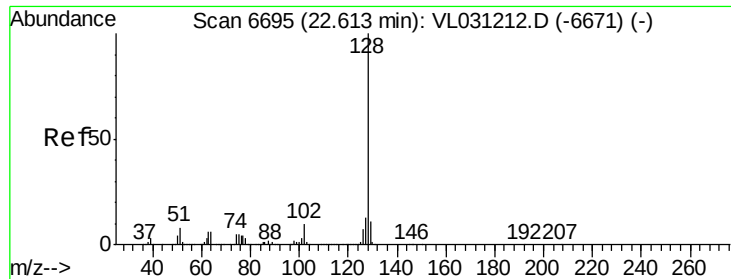
Tgt Ion:146 Resp: 433187
 Ion Ratio Lower Upper
 146 100
 111 47.1 23.3 69.8
 148 64.8 31.9 95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.21 ppbv
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Tgt Ion:225 Resp: 97083
 Ion Ratio Lower Upper
 225 100
 223 63.6 50.4 75.6
 227 64.6 51.3 76.9





#79

Naphthalene

Concen: 1.21 ppbv

RT: 22.61 min Scan# 6695

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

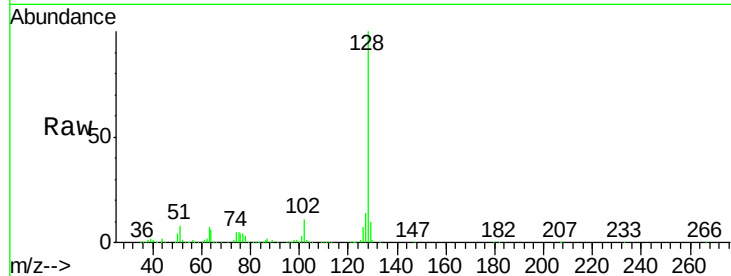
Tgt Ion:128 Resp: 550270

Ion Ratio Lower Upper

128 100

127 13.6 10.2 15.2

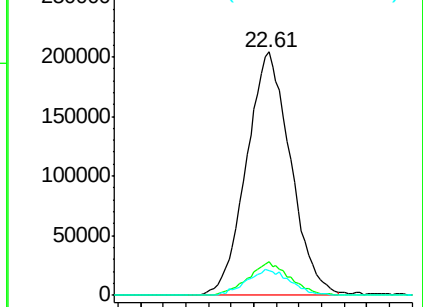
129 10.0 8.9 13.3



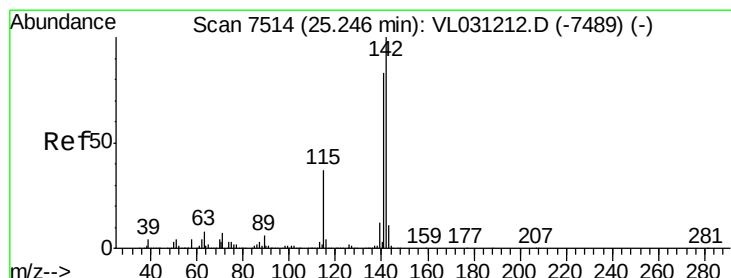
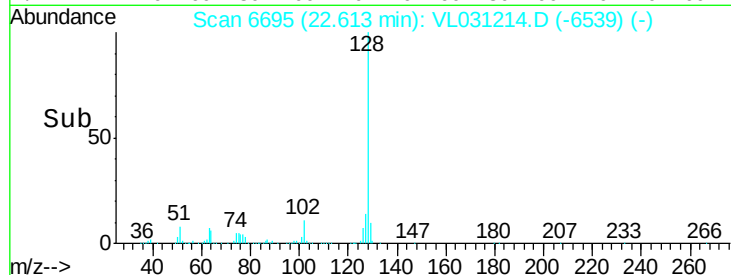
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



Time-->



#80

Naphthalene, 2-methyl-

Concen: 1.33 ppbv

RT: 25.25 min Scan# 7514

Delta R.T. 0.00 min

Lab File: VL031214.D

Acq: 13 Dec 2017 23:45

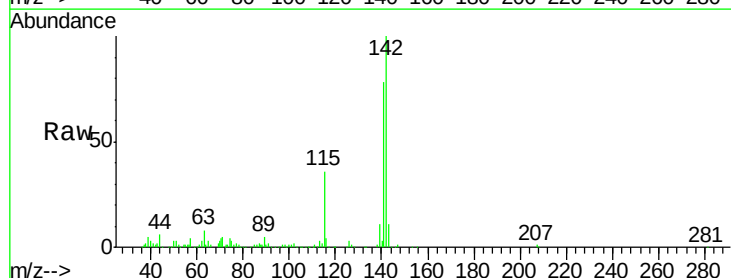
Tgt Ion:142 Resp: 178432

Ion Ratio Lower Upper

142 100

141 80.3 66.8 100.2

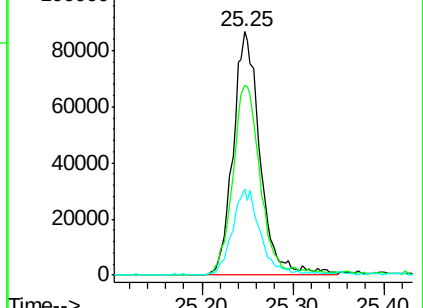
115 37.0 29.7 44.5



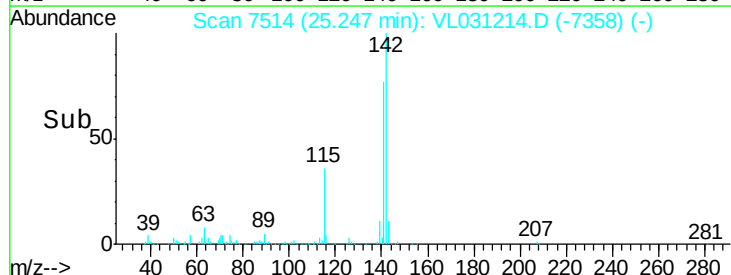
Abundance Ion 142.00 (141.70 to 142.70): V

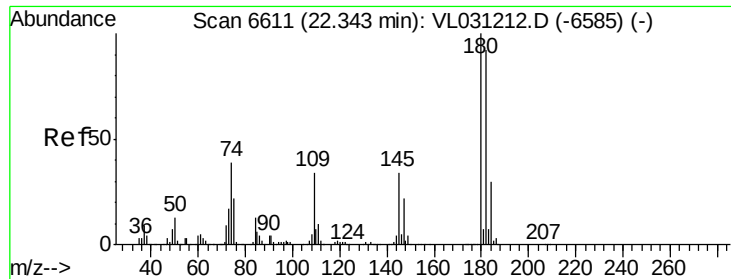
Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



Time-->





#81
 1,2,4-Trichlorobenzene
 Concen: 1.12 ppbv
 RT: 22.34 min Scan# 6610
 Delta R.T. -0.00 min
 Lab File: VL031214.D
 Acq: 13 Dec 2017 23:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:180 Resp: 255582
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.9 113.9
 184 30.3 24.2 36.2

