

Data File : VL031215.D

Acq On : 14 Dec 2017 00:21

Operator : SY/AP

Sample : VSTDIC0.5

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Dec 14 03:43:22 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	1502551	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	5337667	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3527660	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2555081	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.18	85	106390	0.69	ppbv	94
3) Chlorodifluoromethane	3.11	51	102086	0.50	ppbv	100
4) Chloromethane	3.27	50	54224	0.70	ppbv #	87
5) Vinyl Chloride	3.40	62	51633	0.61	ppbv	94
6) Bromomethane	3.63	94	33720	0.66	ppbv	96
7) Chloroethane	3.71	64	20328	0.68	ppbv	97
8) Dichlorotetrafluoroethane	3.32	85	124619	0.70	ppbv	97
9) Propene	3.14	41	49849	0.58	ppbv	98
10) Heptane	8.40	43	143704	0.57	ppbv	98
11) Trichlorofluoromethane	4.13	101	124197	0.69	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.68	101	81594	0.76	ppbv	100
13) Ethanol	3.78	45	7947	0.49	ppbv #	14
14) Bromoethene	3.91	108	35733	0.65	ppbv #	98
15) Acetone	4.04	43	142078	0.94	ppbv	92
16) 1,3-Butadiene	3.47	39	45989	0.65	ppbv	94
17) tert-Butyl alcohol	4.51	59	61870	0.84	ppbv #	92
18) 1,1-Dichloroethene	4.49	96	15984	0.31	ppbv	99
19) Isopropyl Alcohol	4.16	45	75926	0.86	ppbv #	43
20) Methylene Chloride	4.54	84	40448	0.77	ppbv	97
21) Allyl Chloride	4.61	41	66444	0.88	ppbv	96
22) trans-1,2-Dichloroethene	5.10	96	43264	0.66	ppbv	92
23) Vinyl Acetate	5.30	43	183561	0.68	ppbv	99
24) 1,1-Dichloroethane	5.23	63	127669	0.55	ppbv	99
25) Ethyl Acetate	5.92	43	218691	0.58	ppbv	98
26) Hexane	5.93	57	107476	0.59	ppbv	96
27) Carbon Disulfide	4.76	76	99516	0.78	ppbv #	64
28) Methyl tert-Butyl Ether	5.26	73	135736	0.67	ppbv	100
29) Chloroform	5.99	83	139497	0.53	ppbv	98
30) Cyclohexane	7.40	84	126263	0.87	ppbv	93
31) cis-1,2-Dichloroethene	5.78	61	93140	0.53	ppbv	97
32) 1,1,1-Trichloroethane	6.78	97	104879	0.48	ppbv #	23
34) 2-Butanone	5.48	43	143523	0.33	ppbv	99
35) Carbon Tetrachloride	7.29	117	202838	0.54	ppbv	97
36) Benzene	7.16	78	312472	0.51	ppbv	96
37) 1,2-Dichloroethane	6.56	62	172465	0.48	ppbv	99
38) Trichloroethene	8.12	130	85074	0.37	ppbv	91
39) 1,2-Dichloropropane	7.90	63	101403	0.43	ppbv	93
40) 1,4-Dioxane	8.16	88	14818	0.16	ppbv #	1
41) Tetrahydrofuran	6.32	42	84593	0.37	ppbv	97
42) Bromodichloromethane	8.08	83	141606	0.33	ppbv	98
43) Methyl Methacrylate	8.30	69	73687	0.34	ppbv	98

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Quant Time: Dec 14 03:43:22 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

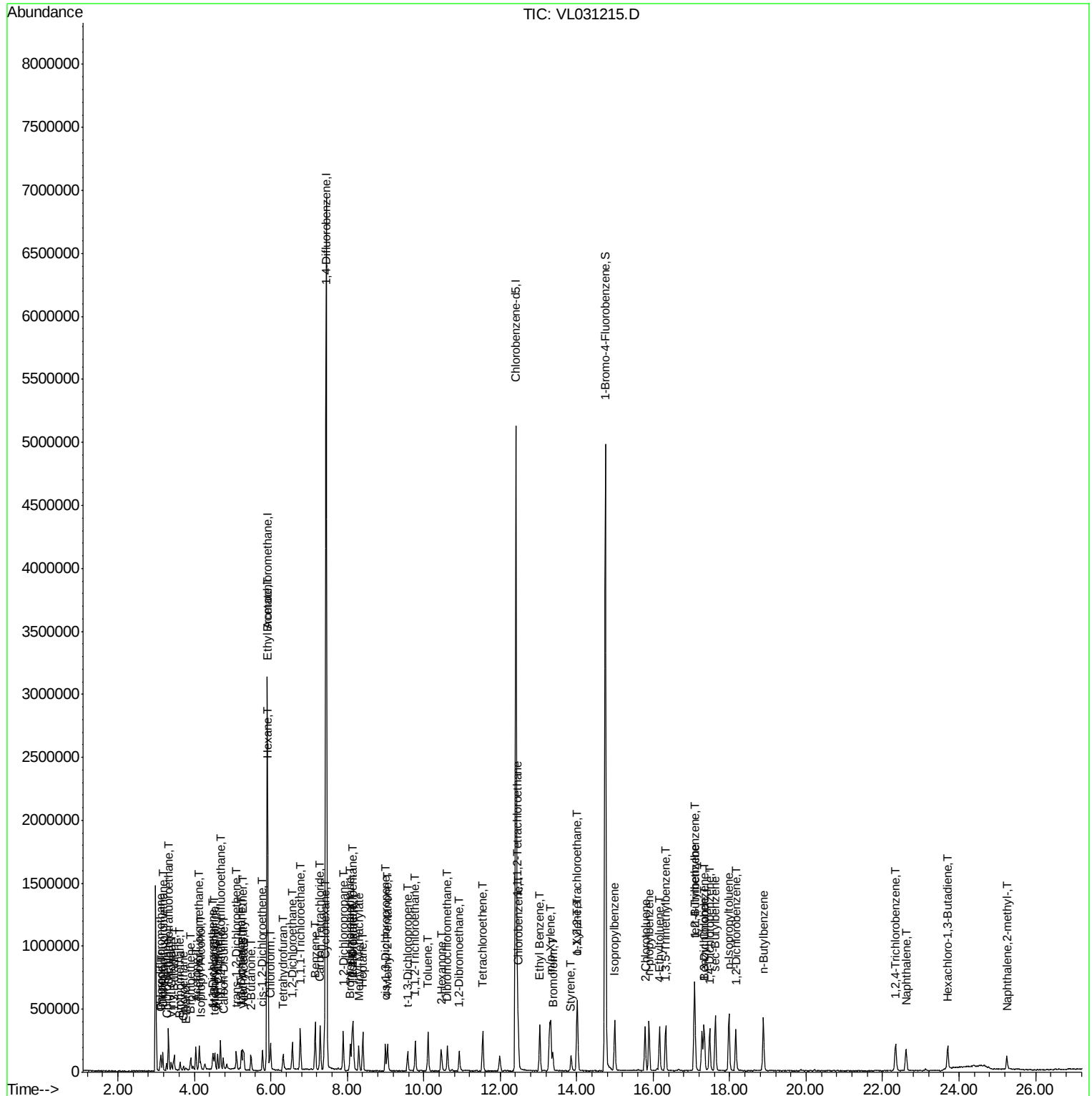
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	357013	0.35	ppbv	97
45) t-1,3-Dichloropropene	9.58	75	94303	0.36	ppbv	95
46) cis-1,3-Dichloropropene	9.00	75	122703	0.35	ppbv	95
47) 1,1,2-Trichloroethane	9.78	97	83744	0.34	ppbv	96
48) Dibromochloromethane	10.62	129	120414	0.36	ppbv	98
49) Bromoform	13.37	173	81129	0.32	ppbv	98
50) 4-Methyl-2-Pentanone	9.05	43	180702	0.33	ppbv	99
51) 2-Hexanone	10.45	43	171648	0.33	ppbv #	99
52) Tetrachloroethene	11.54	164	82357	0.38	ppbv	98
53) Toluene	10.11	91	249274	0.36	ppbv	100
54) 1,2-Dibromoethane	10.93	107	128316	0.36	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.45	131	89253	0.62	ppbv #	1
57) Chlorobenzene	12.47	112	197394	0.57	ppbv	94
58) Ethyl Benzene	13.03	91	347639	0.58	ppbv	98
59) m/p-Xylene	13.32	91	147366	0.29	ppbv #	29
60) o-Xylene	14.02	91	175572	0.35	ppbv #	53
61) Styrene	13.85	104	77385	0.61	ppbv	98
62) Isopropylbenzene	14.99	105	372126	0.61	ppbv	98
63) 1,1,2,2-Tetrachloroethane	14.01	83	183858	0.47	ppbv	100
64) n-propylbenzene	15.89	120	95594	0.58	ppbv	90
65) tert-Butylbenzene	17.07	119	346361	0.65	ppbv	97
66) Benzyl Chloride	17.33	91	27055	0.59	ppbv #	90
67) sec-Butylbenzene	17.63	105	465018	0.58	ppbv	99
69) p-Isopropyltoluene	17.98	119	386858	0.62	ppbv	99
70) n-Butylbenzene	18.88	91	362247	0.53	ppbv	99
71) 2-Chlorotoluene	15.79	91	273234	0.56	ppbv	99
72) 4-Ethyltoluene	16.17	105	310628	0.61	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	280523	0.59	ppbv	96
74) 1,2,4-Trimethylbenzene	17.09	105	304415	0.58	ppbv	96
75) 1,3-Dichlorobenzene	17.34	146	181245	0.55	ppbv	97
76) 1,4-Dichlorobenzene	17.48	146	186725	0.56	ppbv	99
77) 1,2-Dichlorobenzene	18.16	146	181236	0.56	ppbv	99
78) Hexachloro-1,3-Butadiene	23.70	225	25284	0.41	ppbv #	47
79) Naphthalene	22.61	128	229671	0.65	ppbv	97
80) Naphthalene,2-methyl-	25.25	142	72647	0.70	ppbv	97
81) 1,2,4-Trichlorobenzene	22.34	180	105802	0.60	ppbv	97

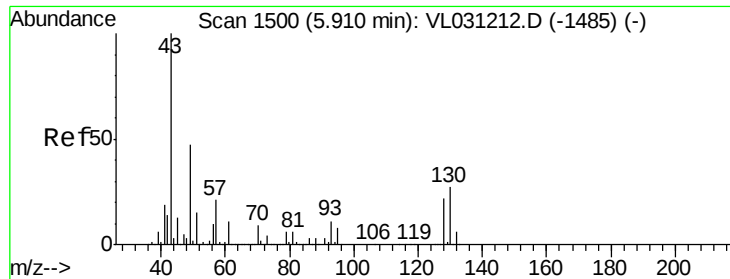
(#)=qualifier out of range (m)=manual integration (+)=signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTDICC0.5

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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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

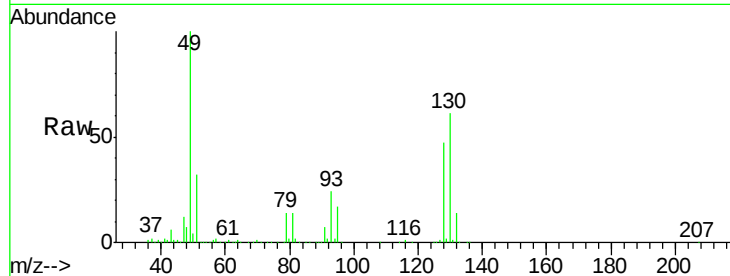
Tgt Ion: 49 Resp: 1502551

Ion Ratio Lower Upper

49 100

128 48.2 23.2 69.5

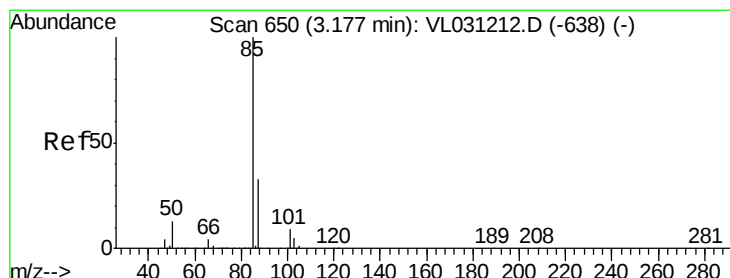
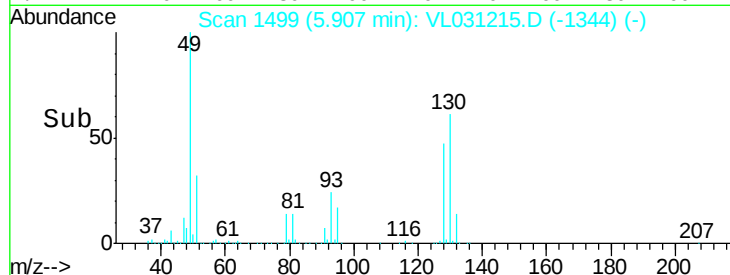
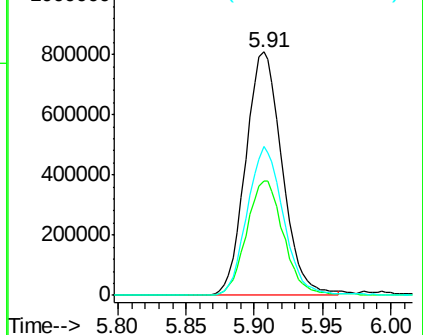
130 61.5 29.6 88.8



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: 0.69 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031215.D

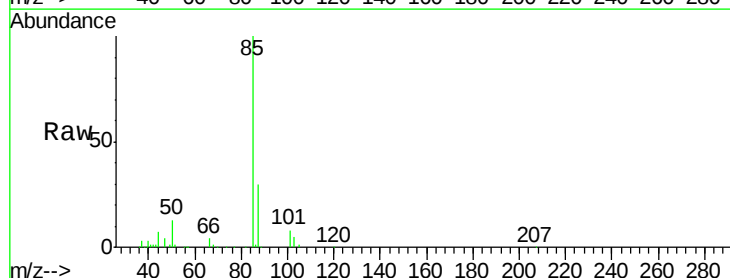
Acq: 14 Dec 2017 00:21

Tgt Ion: 85 Resp: 106390

Ion Ratio Lower Upper

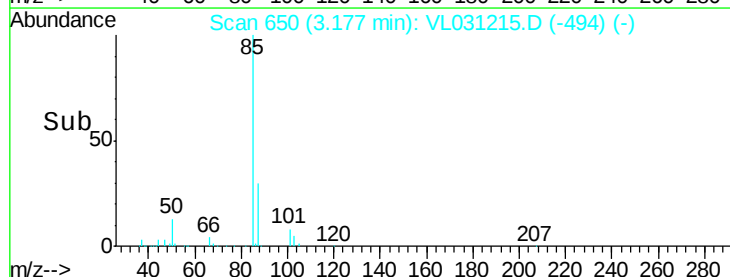
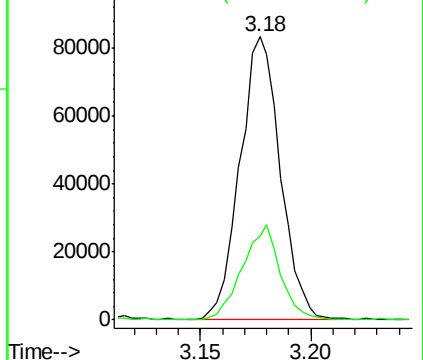
85 100

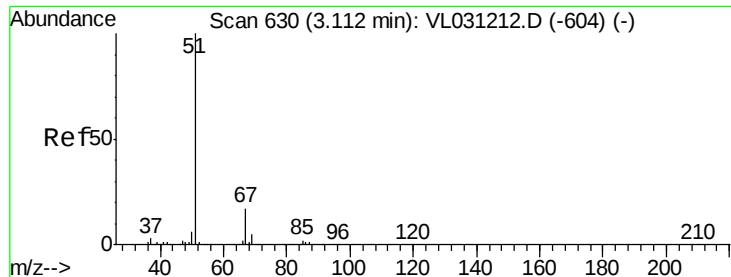
87 29.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.50 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

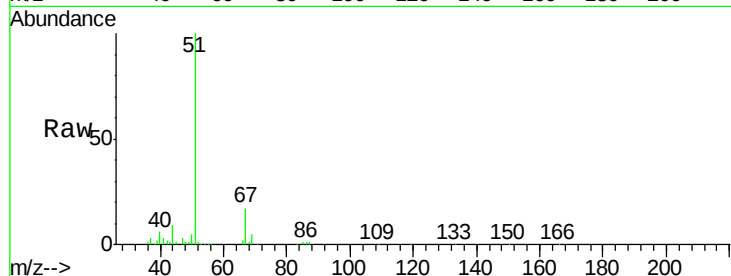
VSTDIC0.5

Tgt Ion: 51 Resp: 102086

Ion Ratio Lower Upper

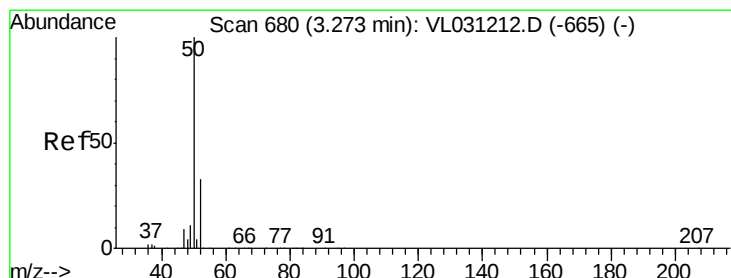
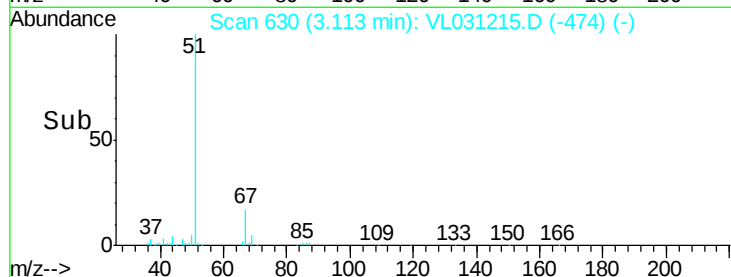
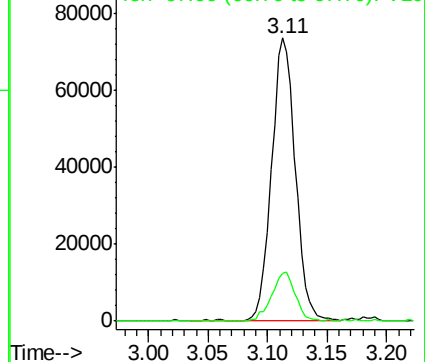
51 100

67 17.2 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: 0.70 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031215.D

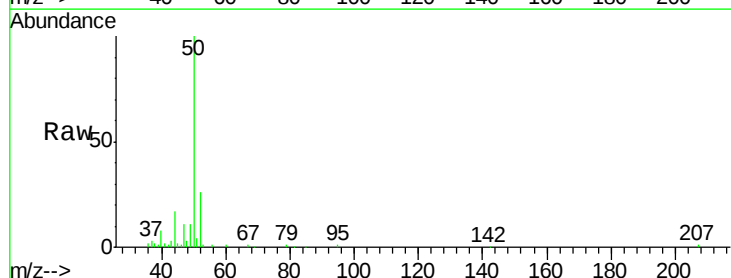
Acq: 14 Dec 2017 00:21

Tgt Ion: 50 Resp: 54224

Ion Ratio Lower Upper

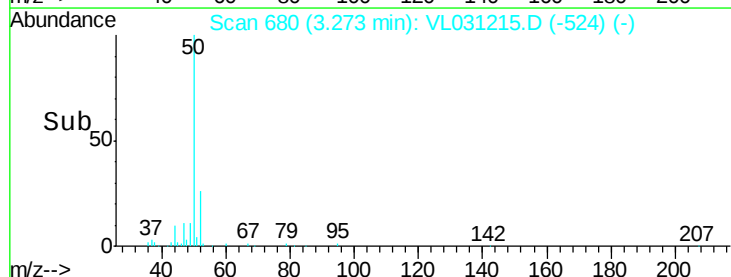
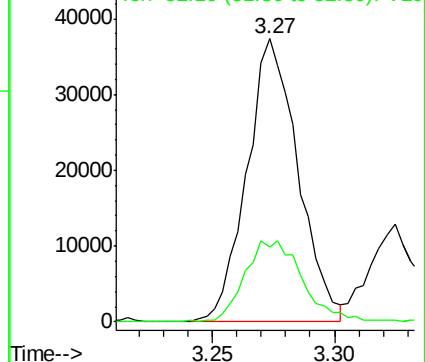
50 100

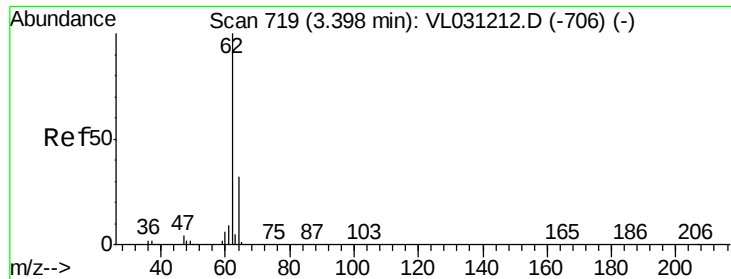
52 25.7 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.61 ppbv

RT: 3.40 min Scan# 720

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

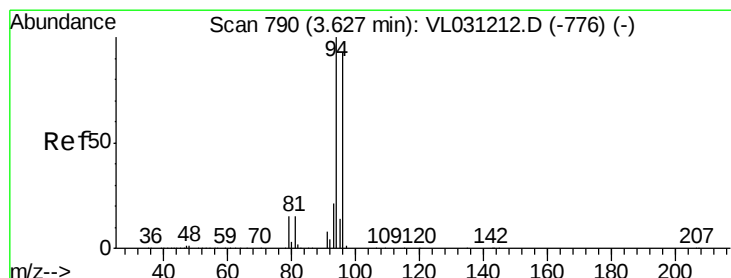
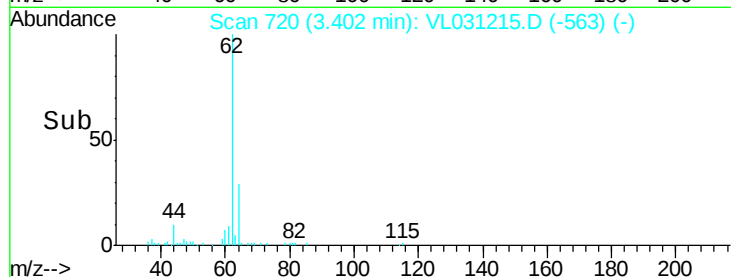
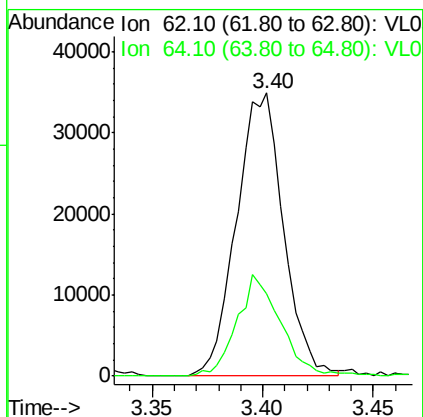
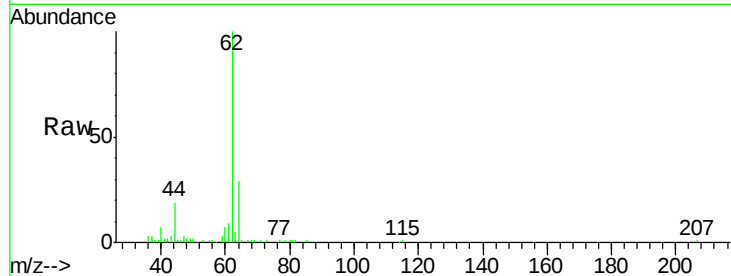
VSTDIC0.5

Tgt Ion: 62 Resp: 51633

Ion Ratio Lower Upper

62 100

64 29.0 25.9 38.9



#6

Bromomethane

Concen: 0.66 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031215.D

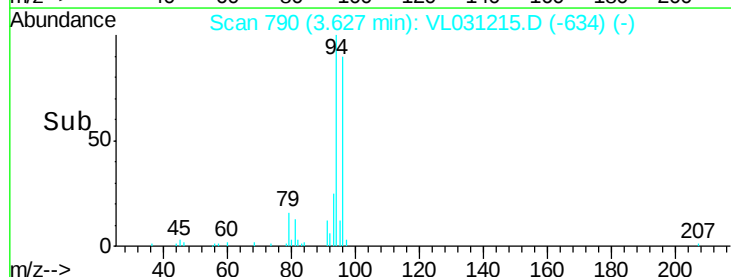
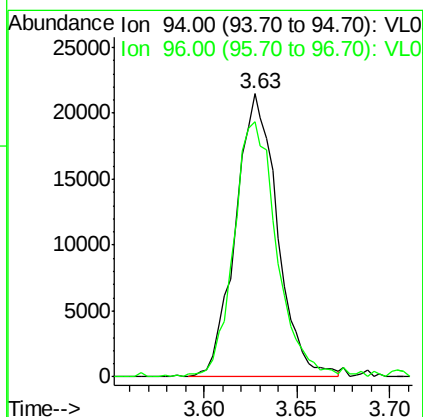
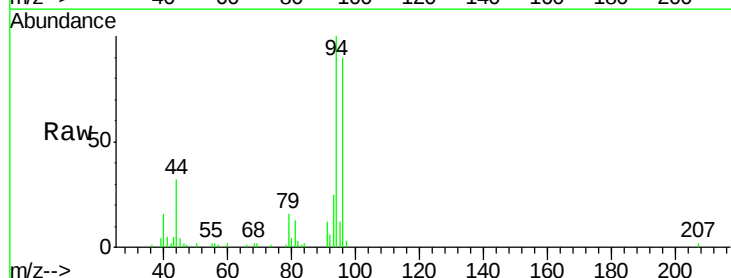
Acq: 14 Dec 2017 00:21

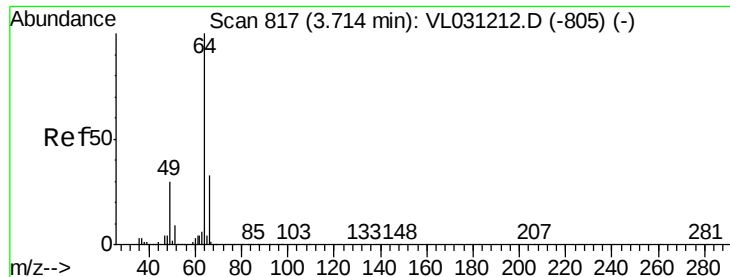
Tgt Ion: 94 Resp: 33720

Ion Ratio Lower Upper

94 100

96 89.1 74.4 111.6





#7

Chloroethane

Concen: 0.68 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

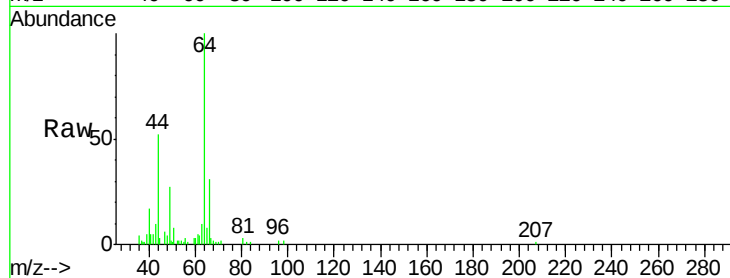
VSTDIC0.5

Tgt Ion: 64 Resp: 20328

Ion Ratio Lower Upper

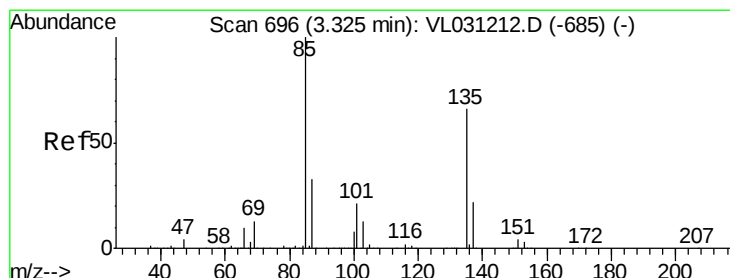
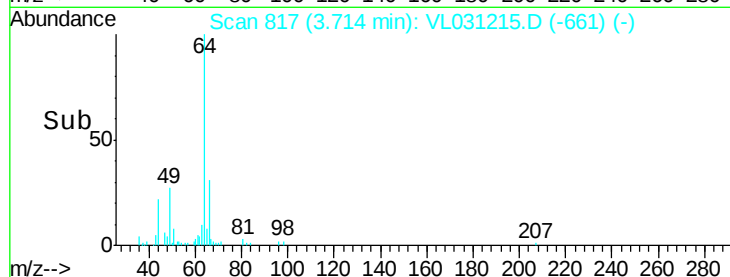
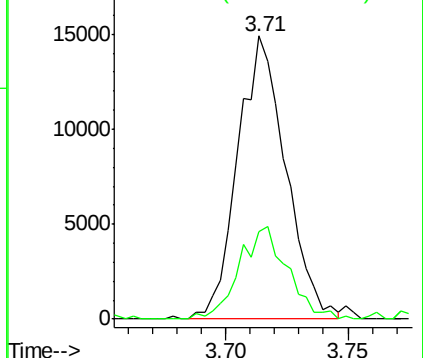
64 100

66 31.1 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: 0.70 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031215.D

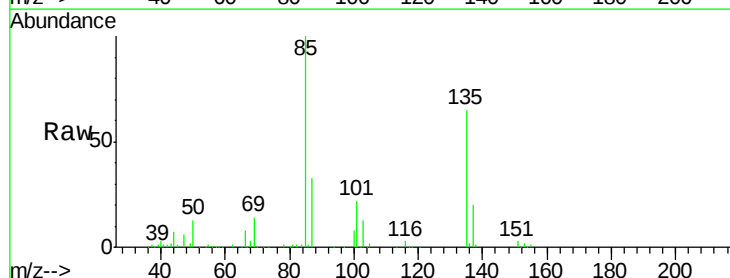
Acq: 14 Dec 2017 00:21

Tgt Ion: 85 Resp: 124619

Ion Ratio Lower Upper

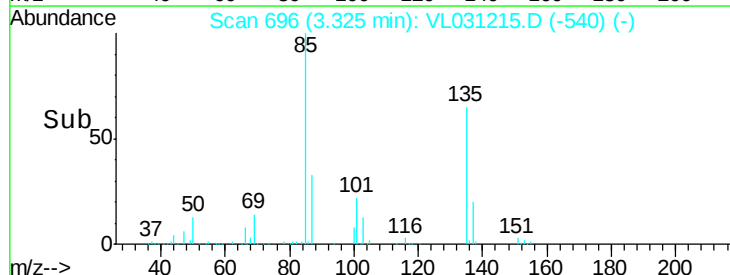
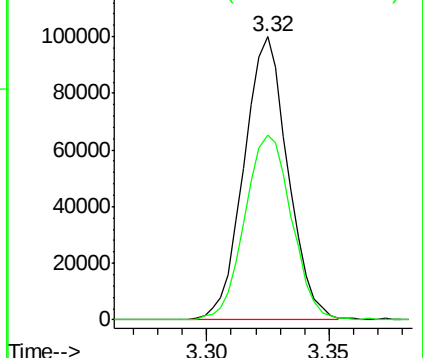
85 100

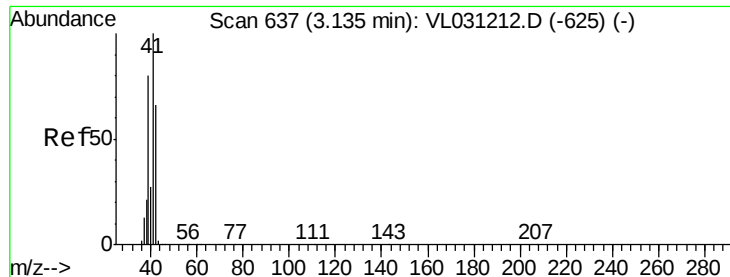
135 69.6 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.58 ppbv

RT: 3.14 min Scan# 637

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

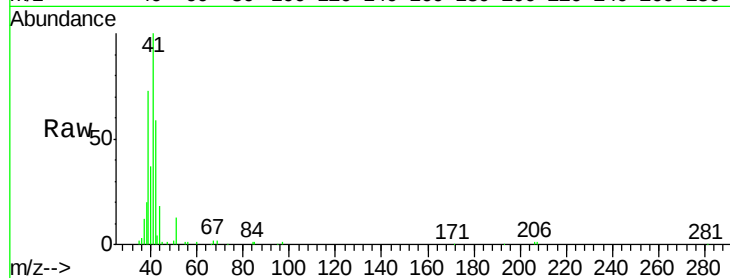
VSTDIC0.5

Tgt Ion: 41 Resp: 49849

Ion Ratio Lower Upper

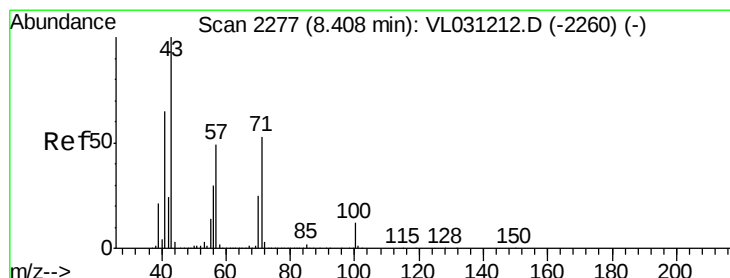
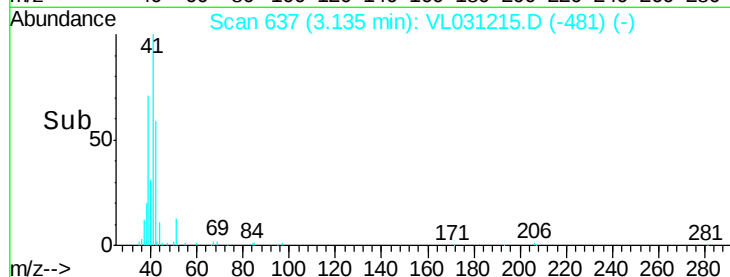
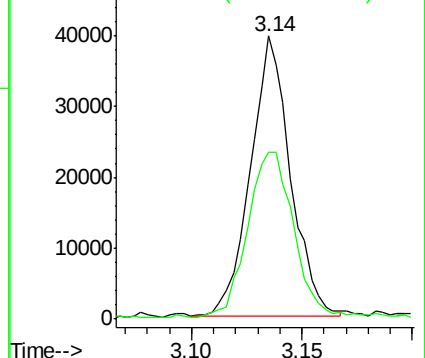
41 100

42 69.3 54.3 81.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.57 ppbv

RT: 8.40 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL031215.D

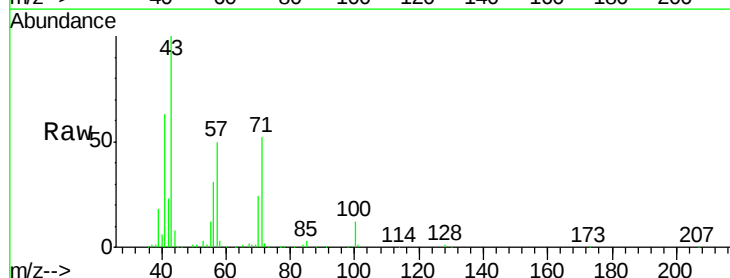
Acq: 14 Dec 2017 00:21

Tgt Ion: 43 Resp: 143704

Ion Ratio Lower Upper

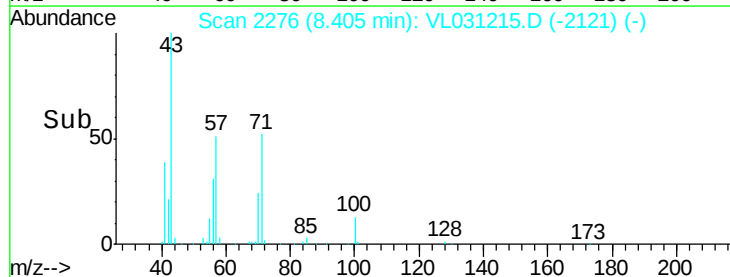
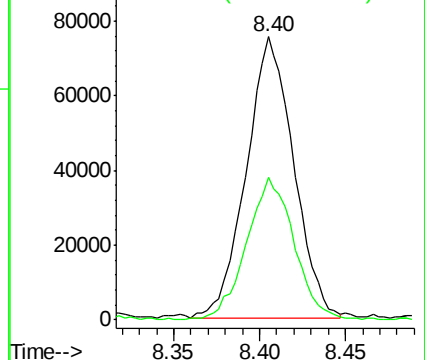
43 100

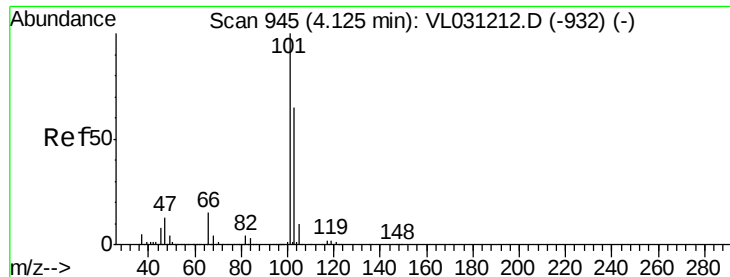
57 51.2 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

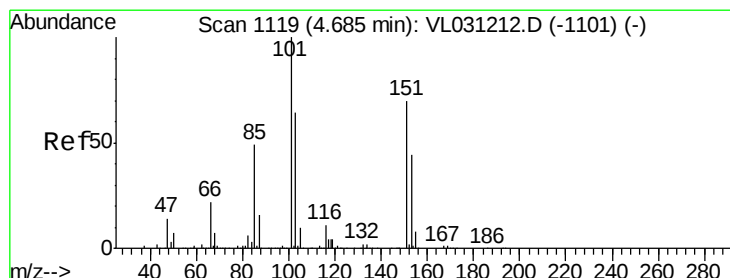
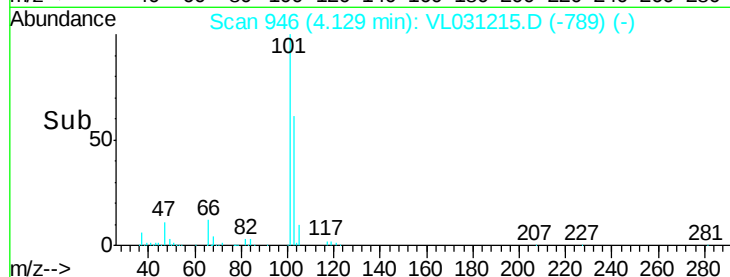
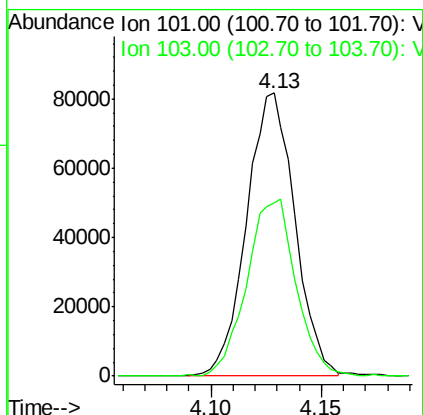
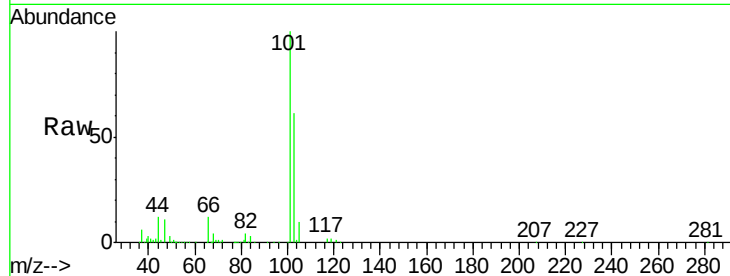




#11
 Trichlorofluoromethane
 Concen: 0.69 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

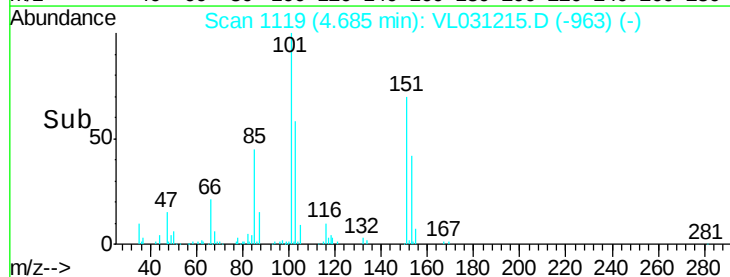
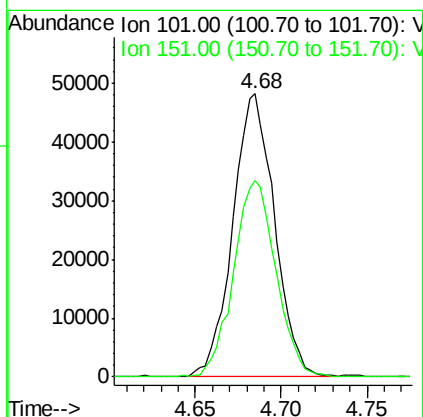
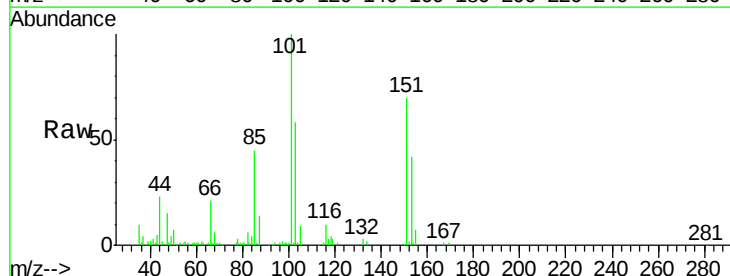
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

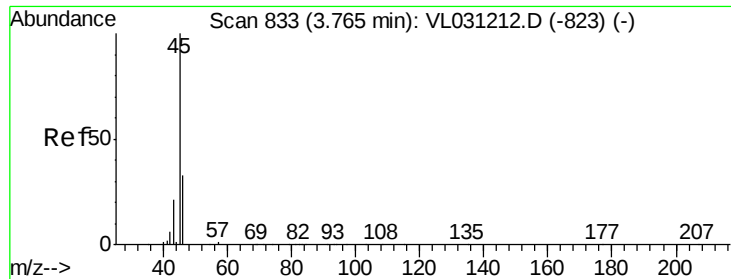
Tgt Ion:101 Resp: 124197
 Ion Ratio Lower Upper
 101 100
 103 60.8 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.76 ppbv
 RT: 4.68 min Scan# 1119
 Delta R.T. 0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion:101 Resp: 81594
 Ion Ratio Lower Upper
 101 100
 151 70.4 56.5 84.7





#13

Ethanol

Concen: 0.49 ppbv

RT: 3.78 min Scan# 837

Delta R.T. 0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

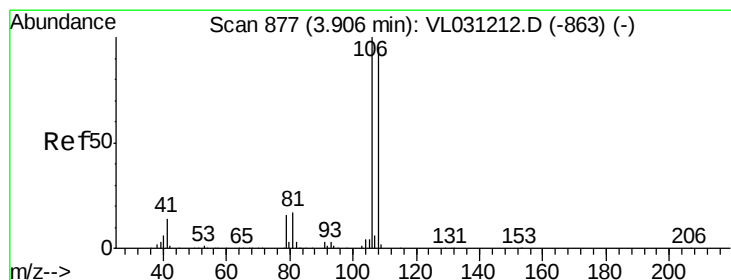
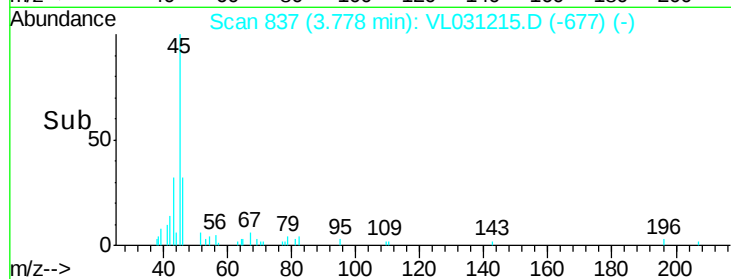
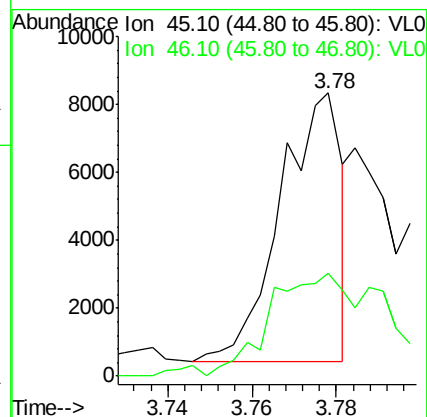
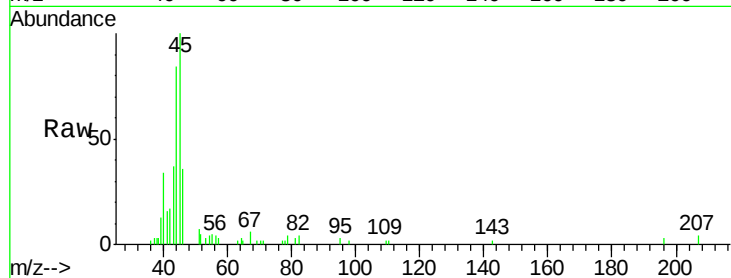
VSTDIC0.5

Tgt Ion: 45 Resp: 7947

Ion Ratio Lower Upper

45 100

46 87.2 14.6 58.4#



#14

Bromoethene

Concen: 0.65 ppbv

RT: 3.91 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

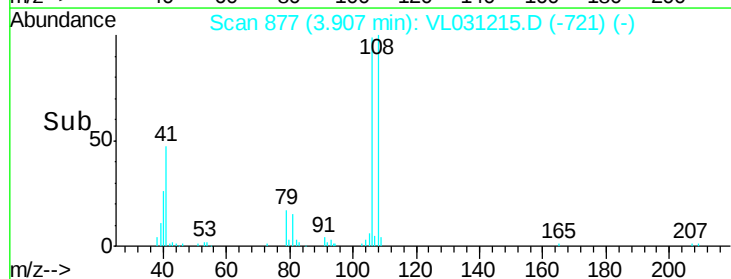
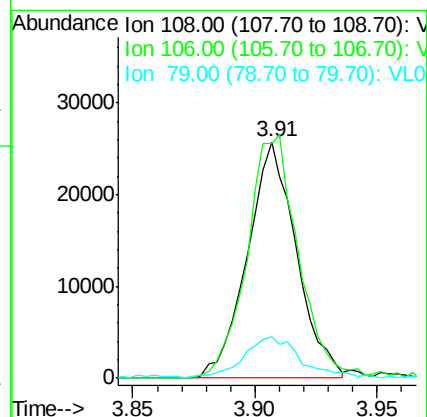
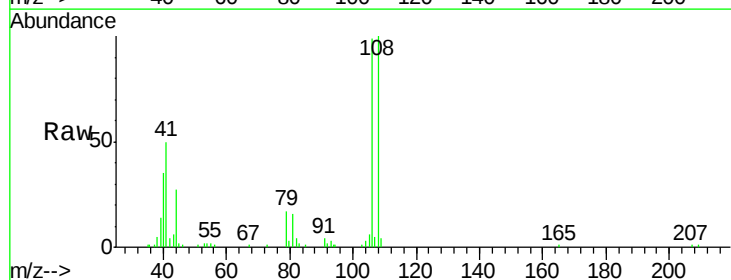
Tgt Ion: 108 Resp: 35733

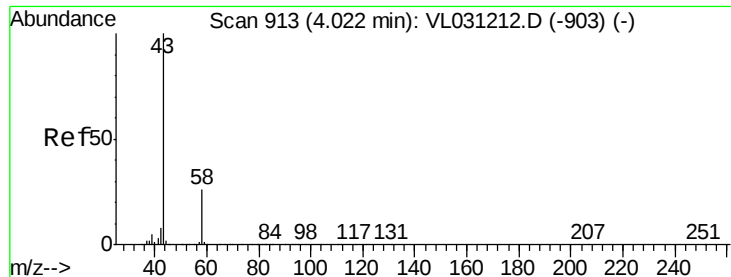
Ion Ratio Lower Upper

108 100

106 108.3 86.5 129.7

79 23.9 14.2 21.4#





#15

Acetone

Concen: 0.94 ppbv

RT: 4.04 min Scan# 917

Delta R.T. 0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

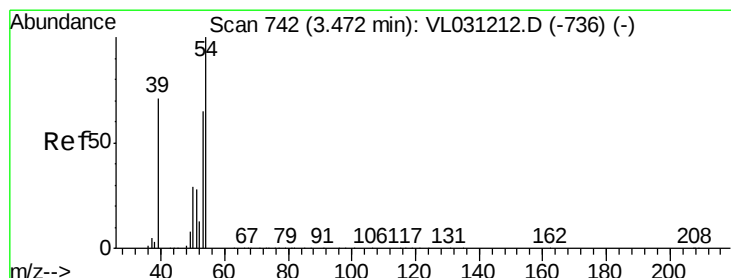
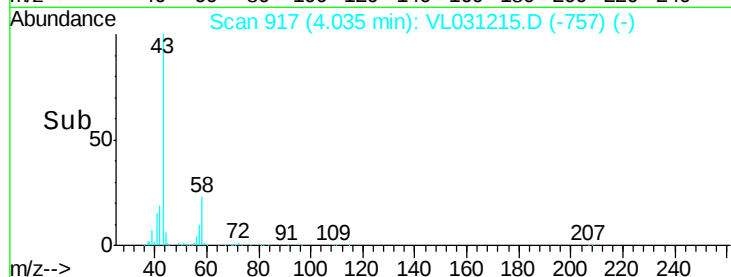
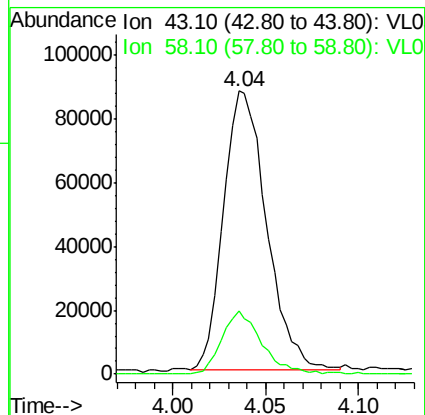
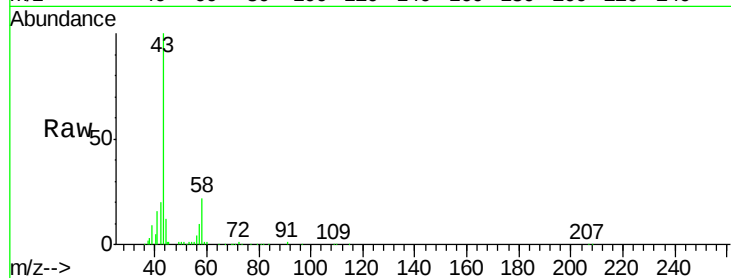
VSTDIC0.5

Tgt Ion: 43 Resp: 142078

Ion Ratio Lower Upper

43 100

58 21.3 20.3 30.5



#16

1,3-Butadiene

Concen: 0.65 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031215.D

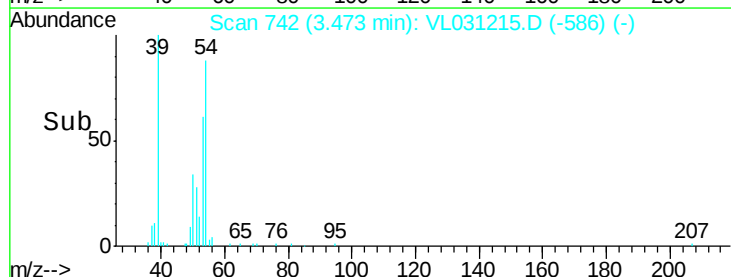
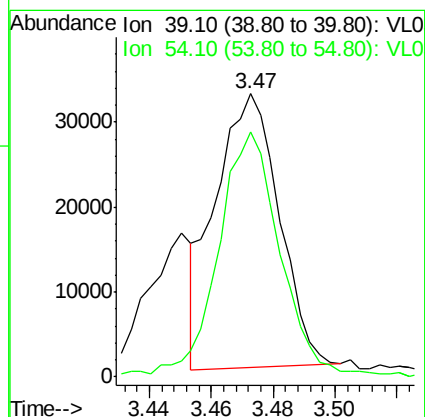
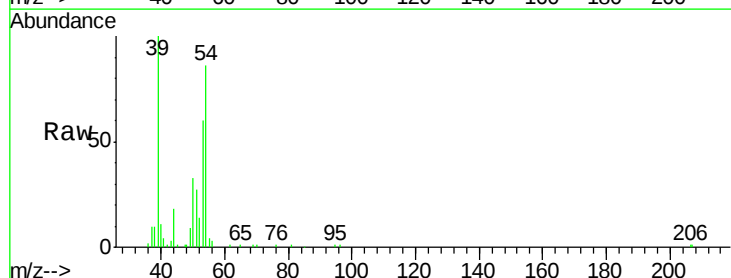
Acq: 14 Dec 2017 00:21

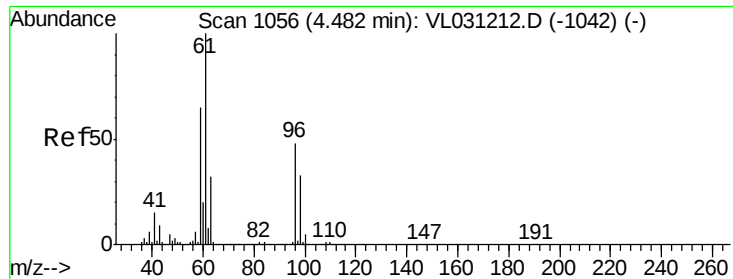
Tgt Ion: 39 Resp: 45989

Ion Ratio Lower Upper

39 100

54 88.6 66.4 99.6

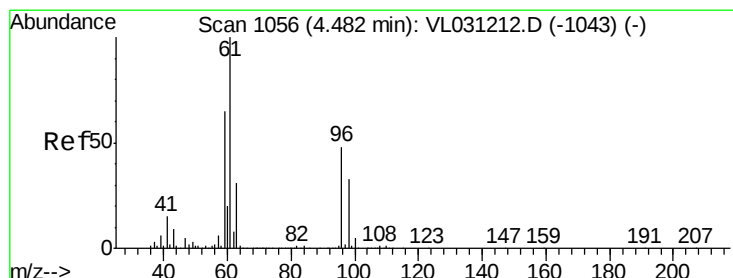
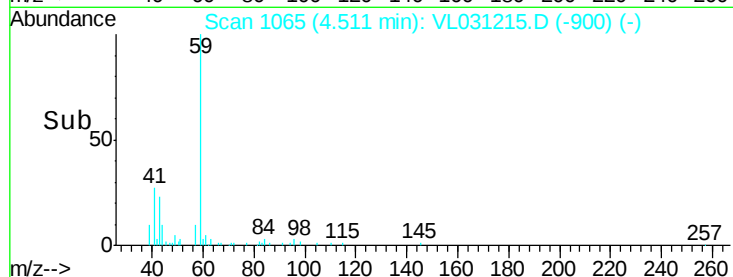
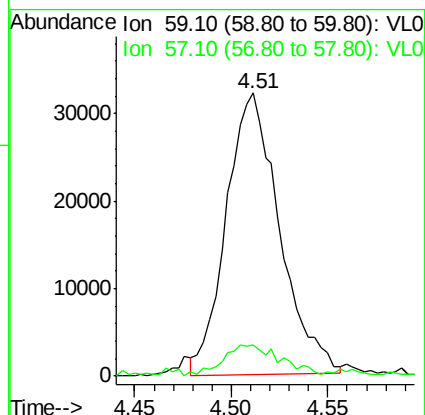
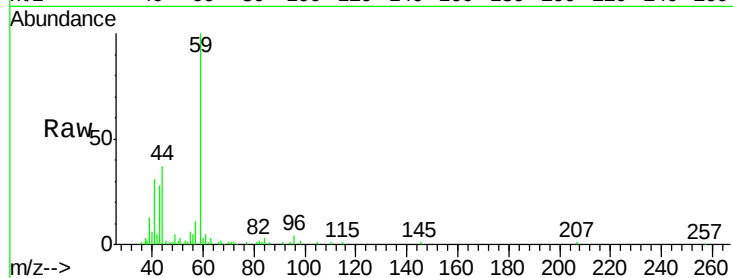




#17
 tert-Butyl alcohol
 Concen: 0.84 ppbv
 RT: 4.51 min Scan# 1065
 Delta R.T. 0.03 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

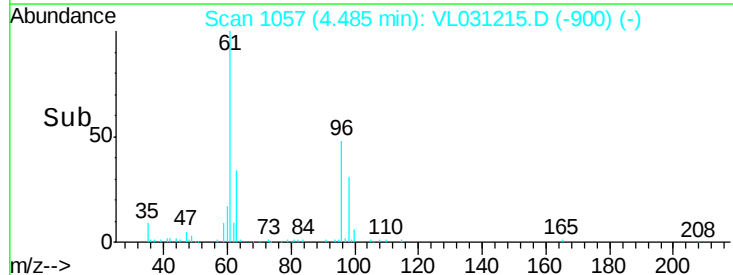
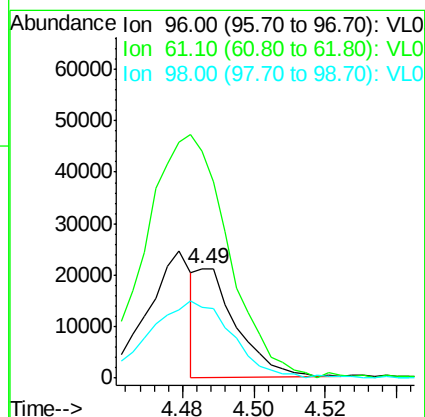
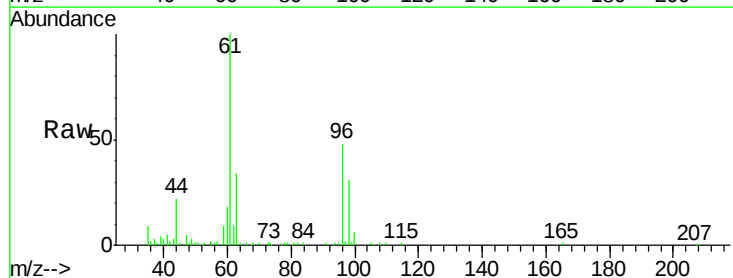
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

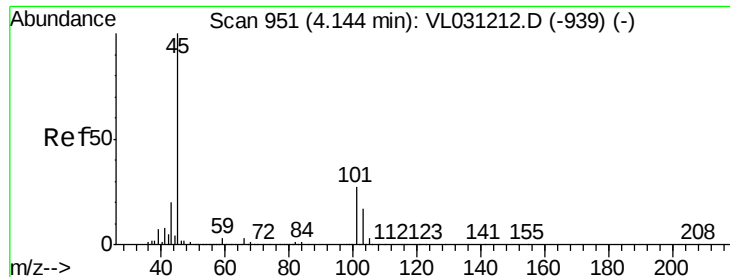
Tgt Ion: 59 Resp: 61870
 Ion Ratio Lower Upper
 59 100
 57 13.1 8.2 12.2#



#18
 1,1-Dichloroethene
 Concen: 0.31 ppbv
 RT: 4.49 min Scan# 1057
 Delta R.T. 0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 96 Resp: 15984
 Ion Ratio Lower Upper
 96 100
 61 208.4 166.8 250.2
 98 64.1 55.0 82.6





#19

Isopropyl Alcohol

Concen: 0.86 ppbv

RT: 4.16 min Scan# 957

Delta R.T. 0.02 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

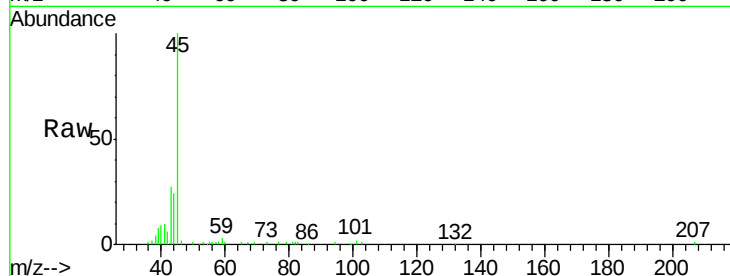
VSTDIC0.5

Tgt Ion: 45 Resp: 75926

Ion Ratio Lower Upper

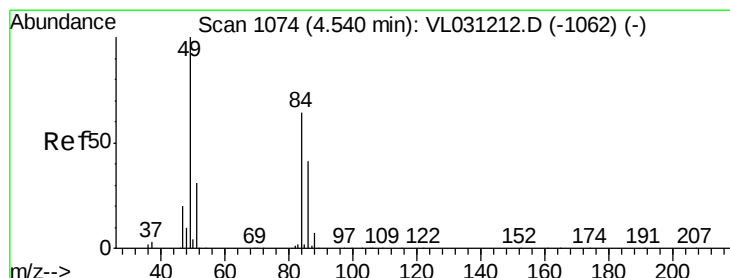
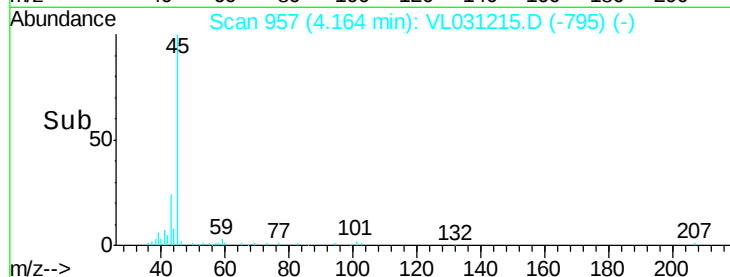
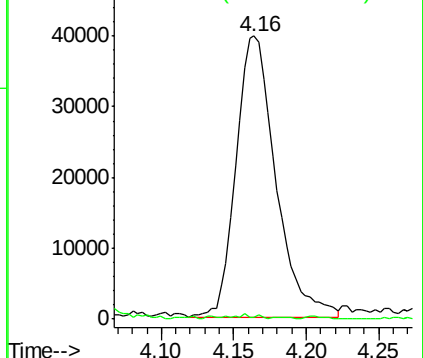
45 100

58 1.6 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: 0.77 ppbv

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Tgt Ion: 84 Resp: 40448

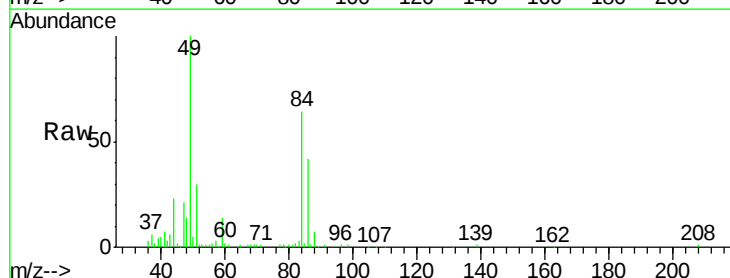
Ion Ratio Lower Upper

84 100

49 154.7 125.8 188.6

51 45.4 39.3 58.9

86 66.4 51.1 76.7

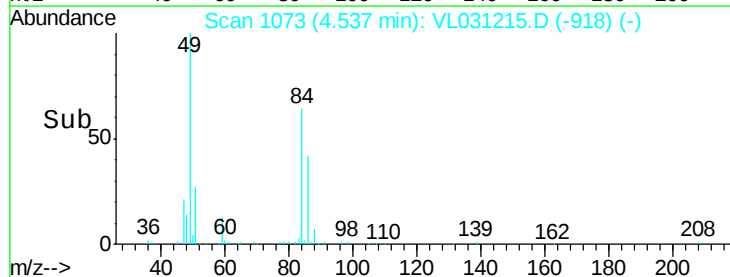
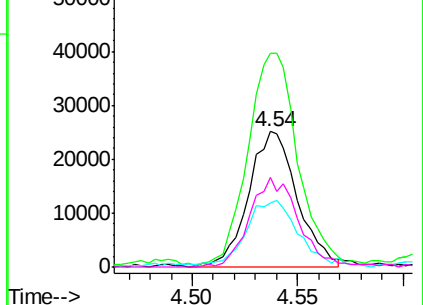


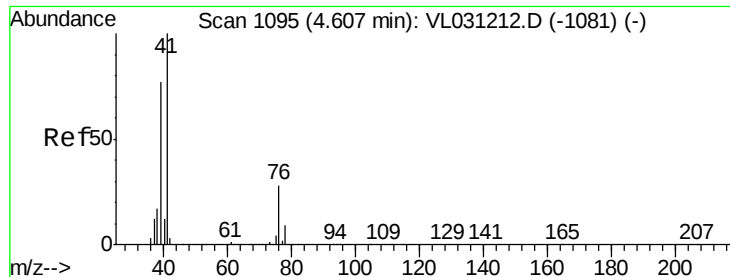
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

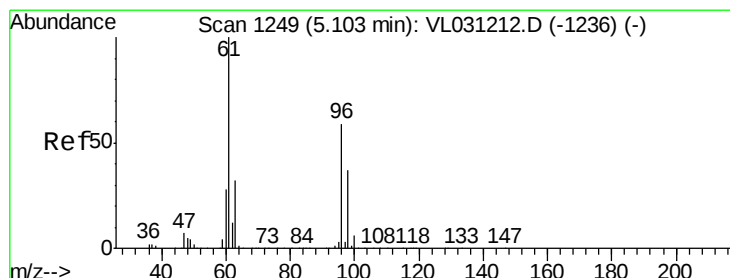
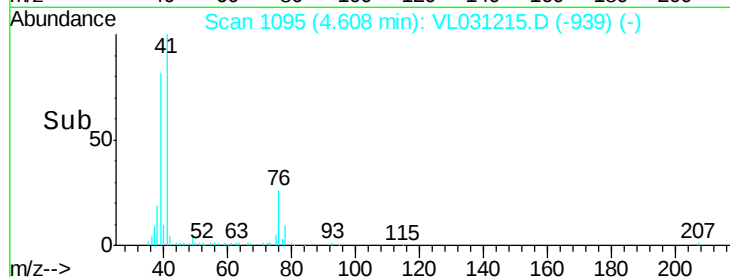
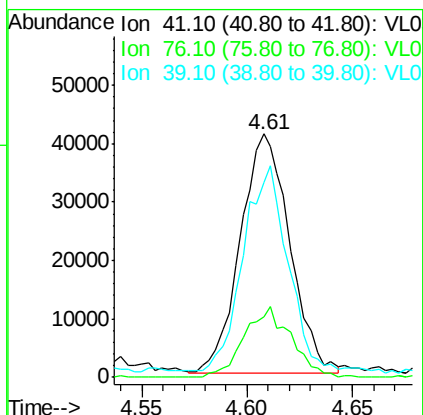
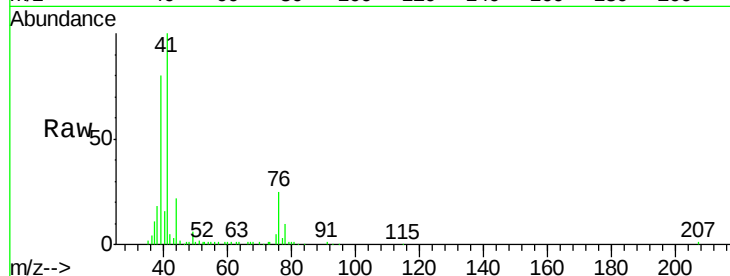




#21
 Allyl Chloride
 Concen: 0.88 ppbv
 RT: 4.61 min Scan# 1095
 Delta R.T. 0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

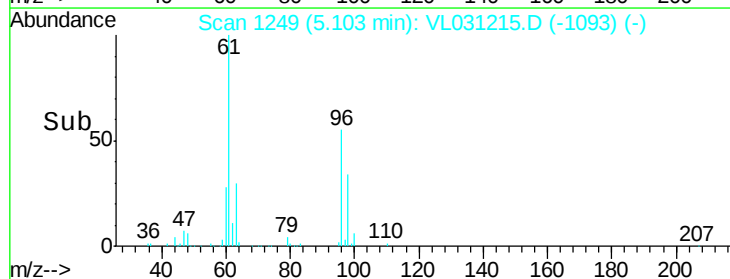
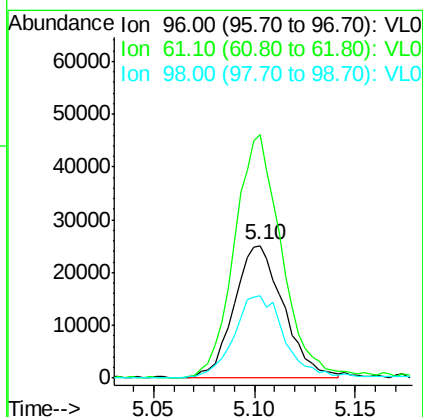
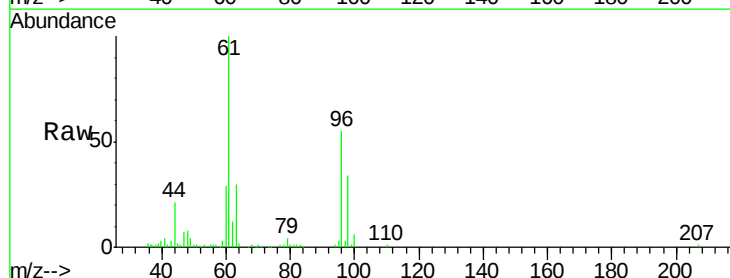
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

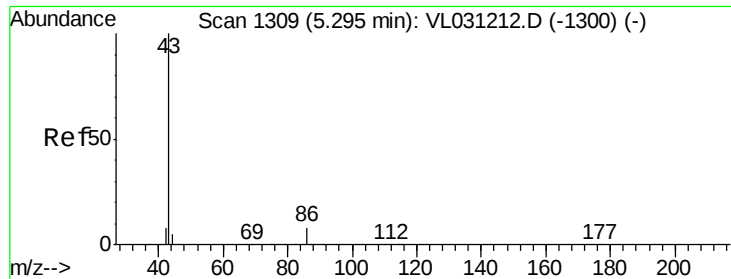
Tgt Ion: 41 Resp: 66444
 Ion Ratio Lower Upper
 41 100
 76 28.1 22.9 34.3
 39 82.3 62.6 93.8



#22
 trans-1,2-Dichloroethene
 Concen: 0.66 ppbv
 RT: 5.10 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 96 Resp: 43264
 Ion Ratio Lower Upper
 96 100
 61 181.4 135.0 202.4
 98 60.7 50.5 75.7





#23

Vinyl Acetate

Concen: 0.68 ppbv

RT: 5.30 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 183561

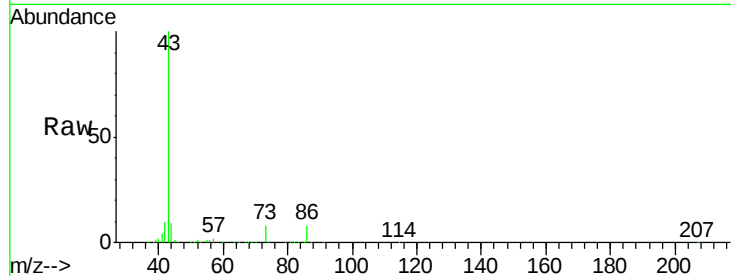
Ion Ratio Lower Upper

43 100

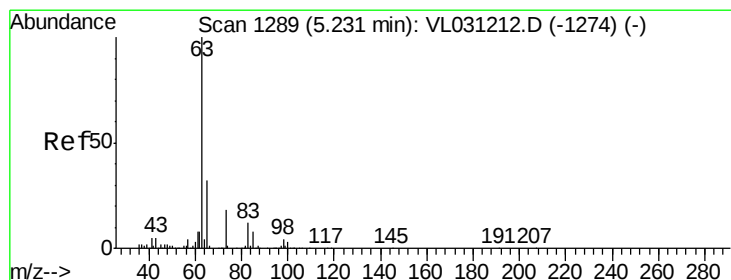
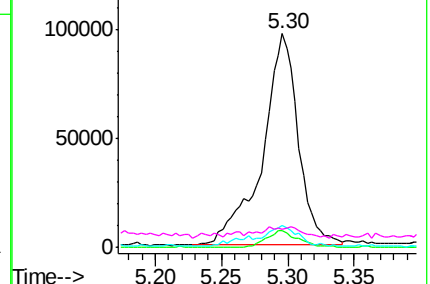
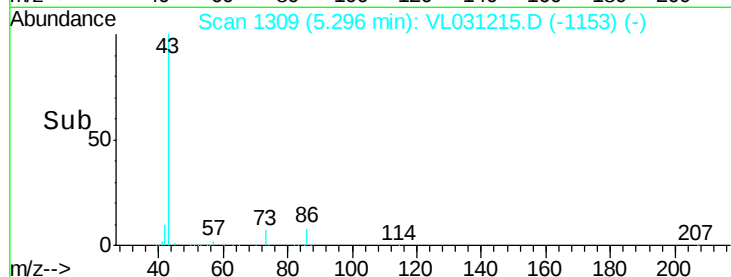
86 7.7 5.9 8.9

42 9.6 7.3 10.9

44 4.4 3.7 5.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 150000 Ion 86.10 (85.80 to 86.80): VL0
 100000 Ion 42.10 (41.80 to 42.80): VL0
 50000 Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.55 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

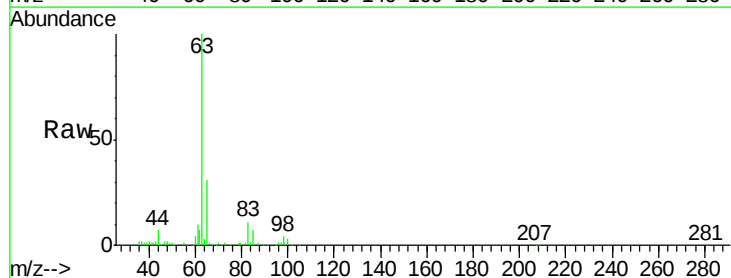
Tgt Ion: 63 Resp: 127669

Ion Ratio Lower Upper

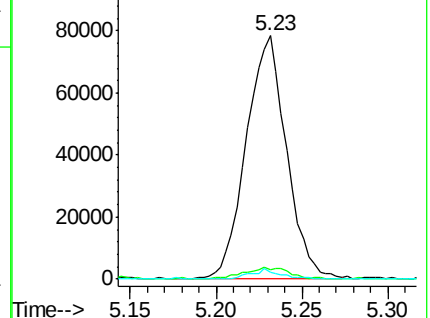
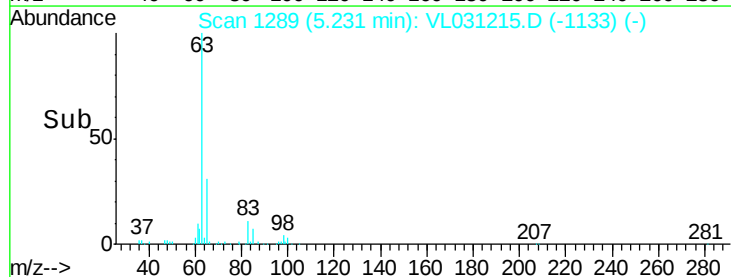
63 100

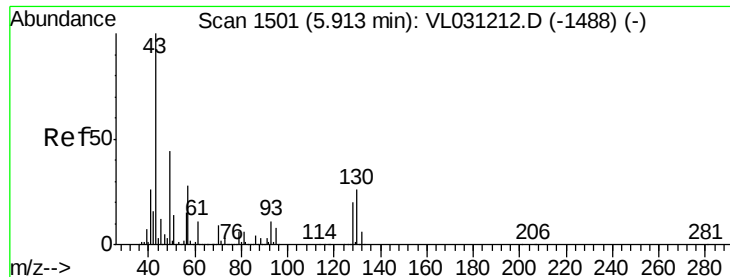
98 4.0 2.3 6.8

100 2.8 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
 100000 Ion 98.00 (97.70 to 98.70): VL0
 80000 Ion 100.00 (99.70 to 100.70): VL0

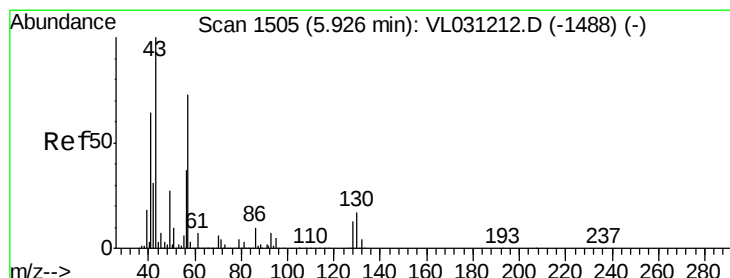
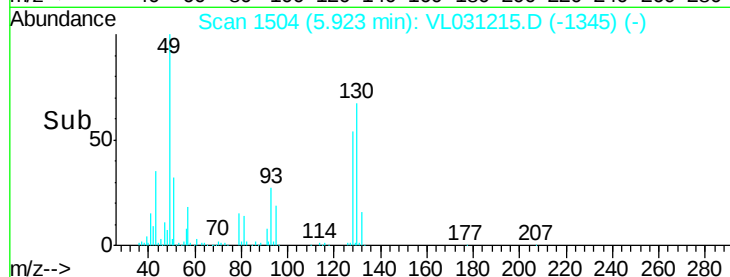
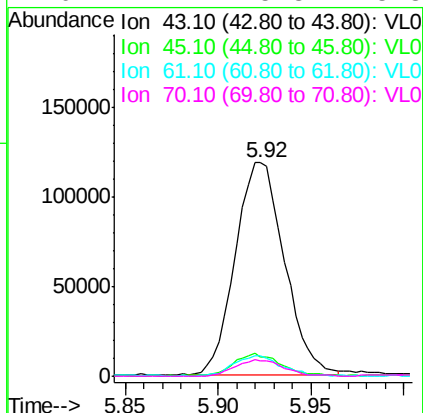
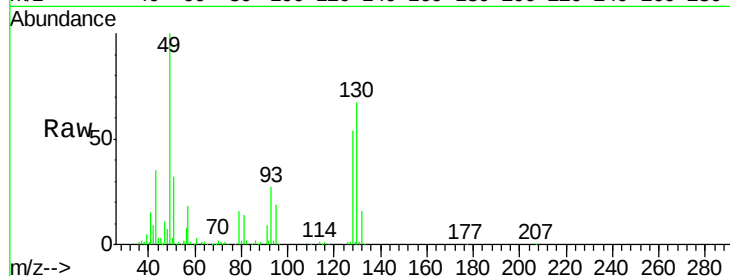




#25
Ethyl Acetate
Concen: 0.58 ppbv
RT: 5.92 min Scan# 1504
Delta R.T. 0.01 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

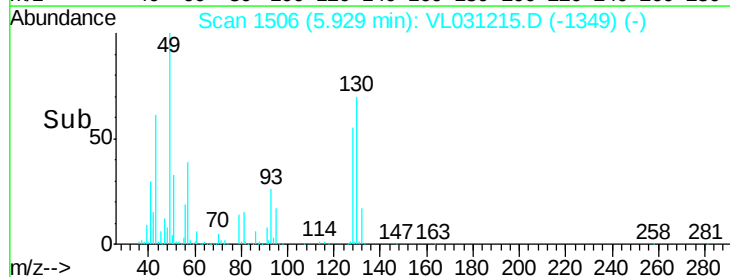
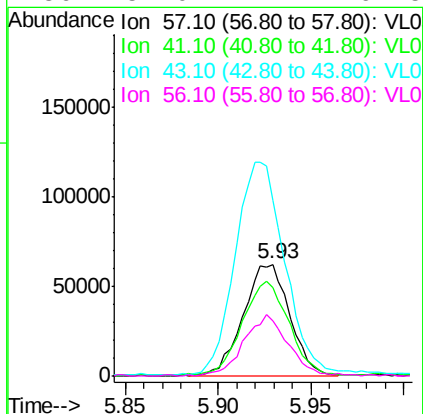
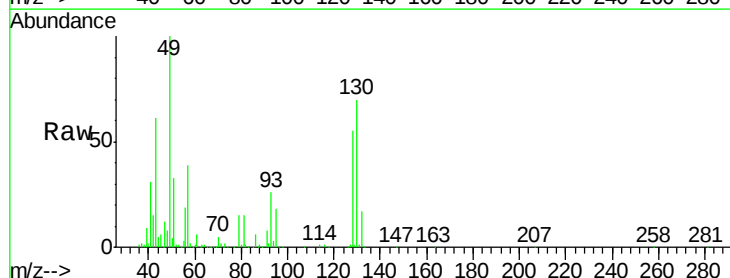
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

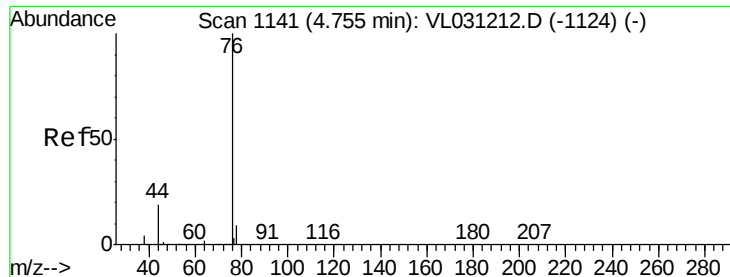
Tgt Ion:	43	Resp:	218691
Ion	Ratio	Lower	Upper
43	100		
45	11.4	8.0	12.0
61	9.8	7.4	11.0
70	7.7	5.8	8.8



#26
Hexane
Concen: 0.59 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion:	57	Resp:	107476
Ion	Ratio	Lower	Upper
57	100		
41	84.8	70.3	105.5
43	210.2	173.8	260.8
56	52.0	41.7	62.5





#27

Carbon Disulfide

Concen: 0.78 ppbv

RT: 4.76 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

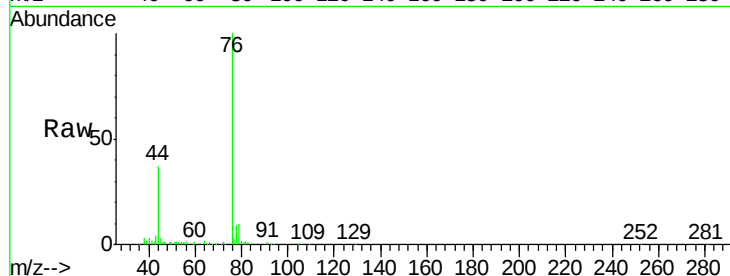
Tgt Ion: 76 Resp: 99516

Ion Ratio Lower Upper

76 100

44 43.4 16.0 24.0#

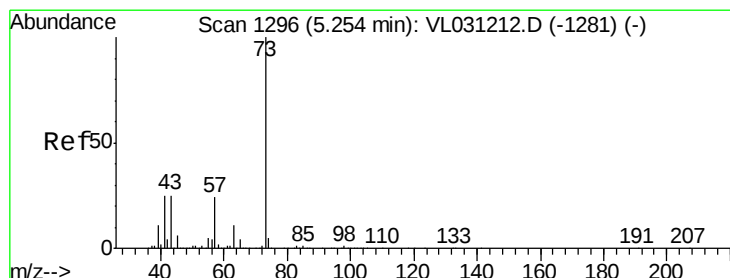
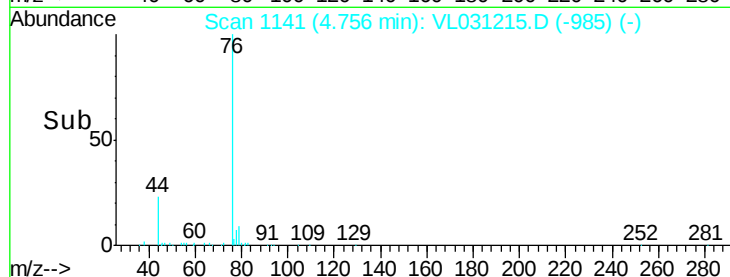
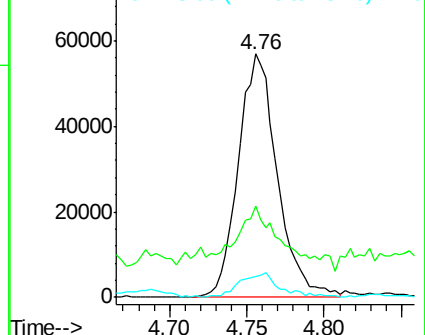
78 10.6 7.5 11.3



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: 0.67 ppbv

RT: 5.26 min Scan# 1299

Delta R.T. 0.01 min

Lab File: VL031215.D

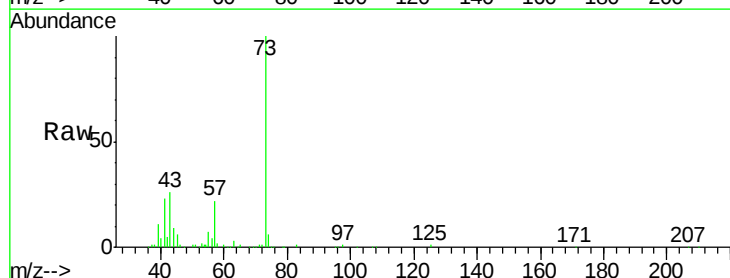
Acq: 14 Dec 2017 00:21

Tgt Ion: 73 Resp: 135736

Ion Ratio Lower Upper

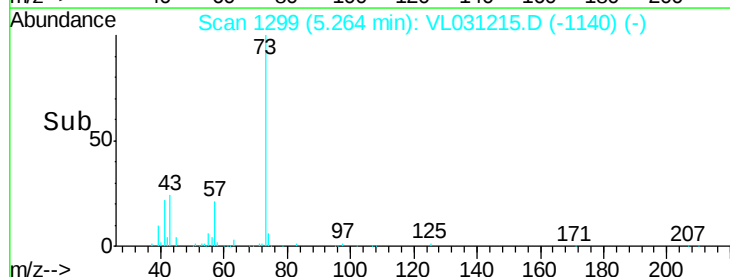
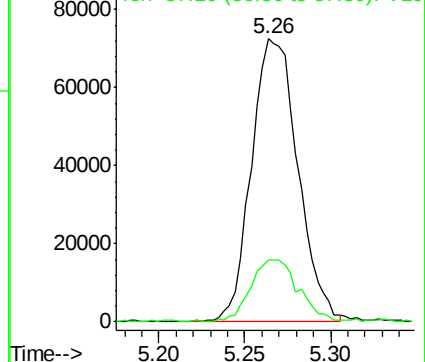
73 100

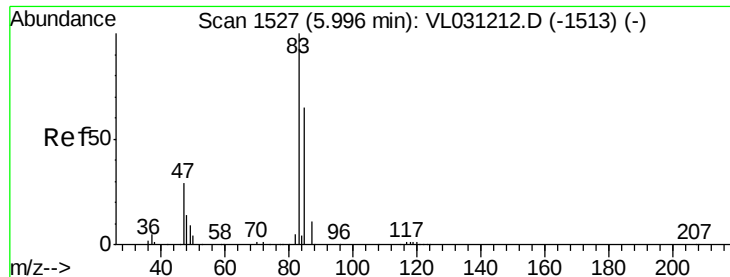
57 22.9 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

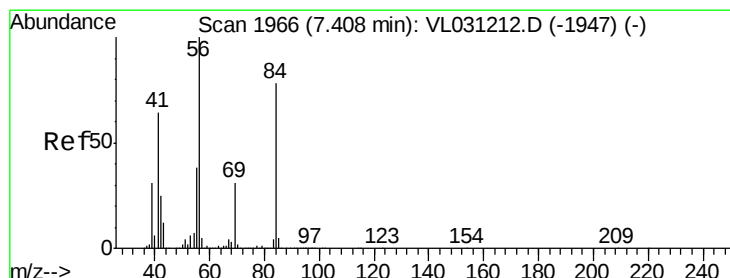
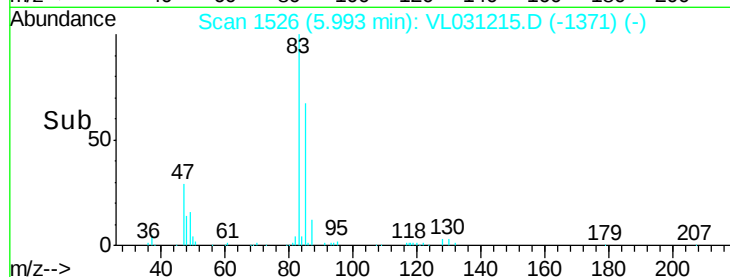
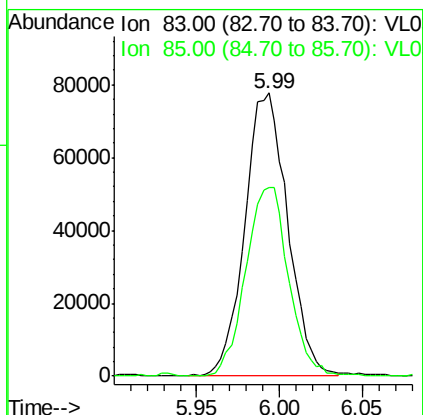
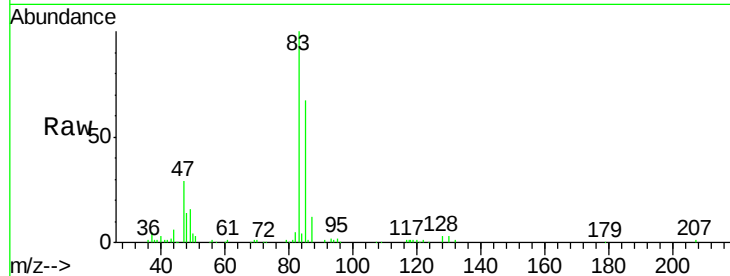




#29
Chloroform
Concen: 0.53 ppbv
RT: 5.99 min Scan# 1526
Delta R.T. -0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

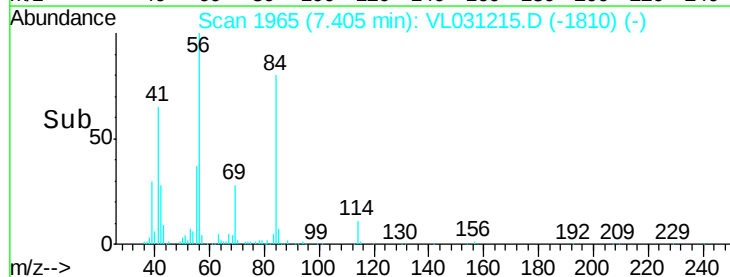
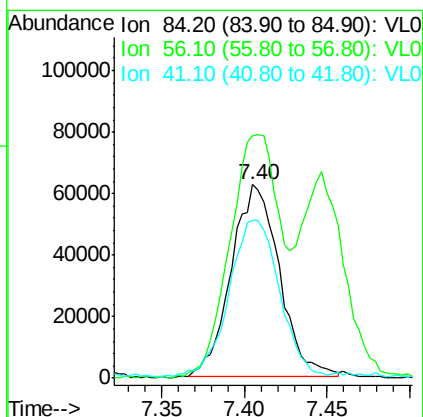
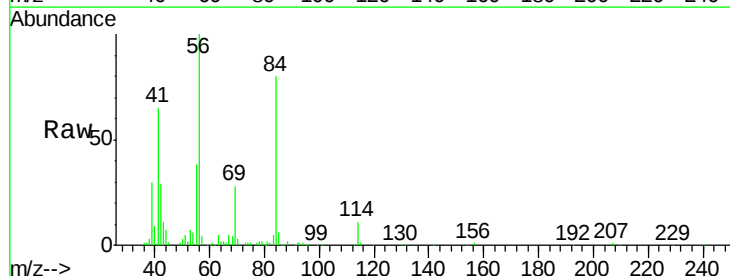
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

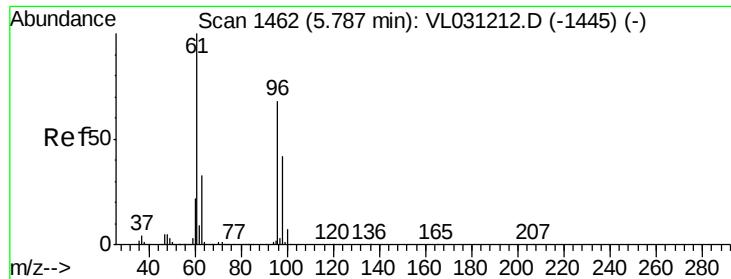
Tgt Ion: 83 Resp: 139497
Ion Ratio Lower Upper
83 100
85 66.6 51.8 77.6



#30
Cyclohexane
Concen: 0.87 ppbv
RT: 7.40 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion: 84 Resp: 126263
Ion Ratio Lower Upper
84 100
56 125.9 108.0 162.0
41 87.0 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 0.53 ppbv

RT: 5.78 min Scan# 1461

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

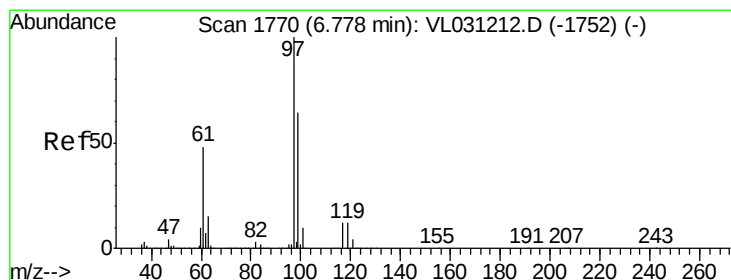
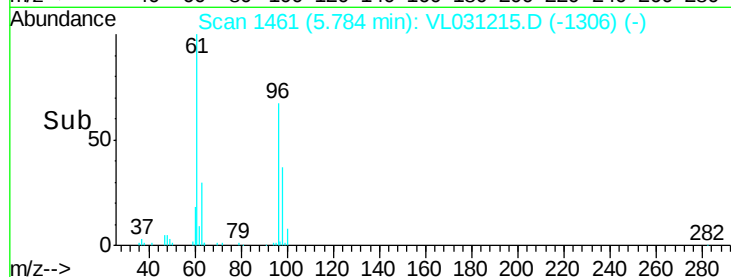
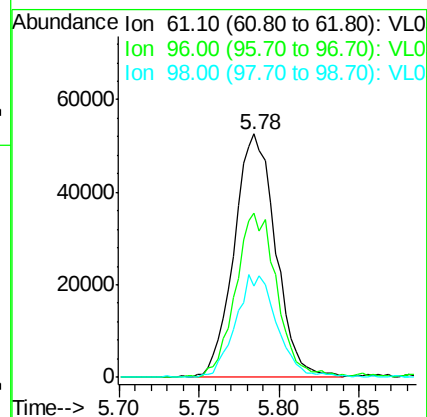
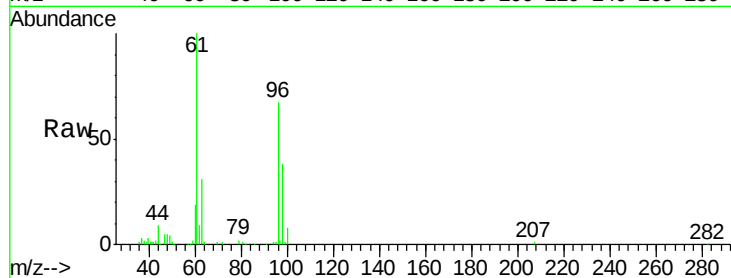
Tgt Ion: 61 Resp: 93140

Ion Ratio Lower Upper

61 100

96 66.8 54.4 81.6

98 37.7 33.6 50.4



#32

1,1,1-Trichloroethane

Concen: 0.48 ppbv

RT: 6.78 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

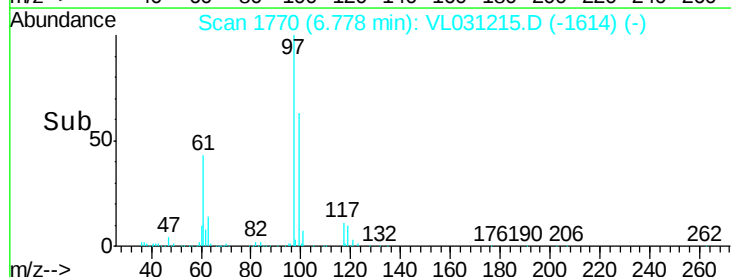
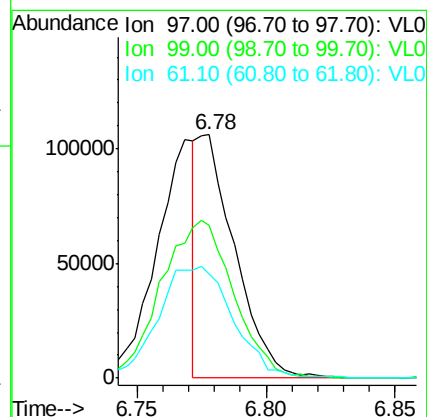
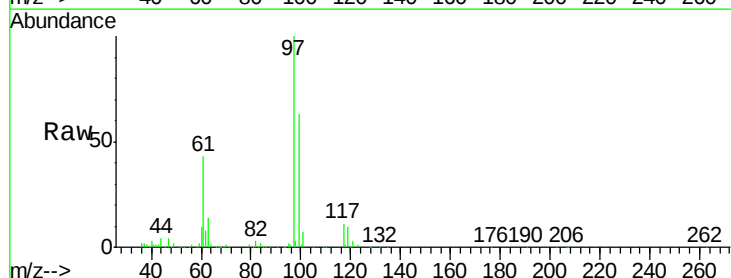
Tgt Ion: 97 Resp: 104879

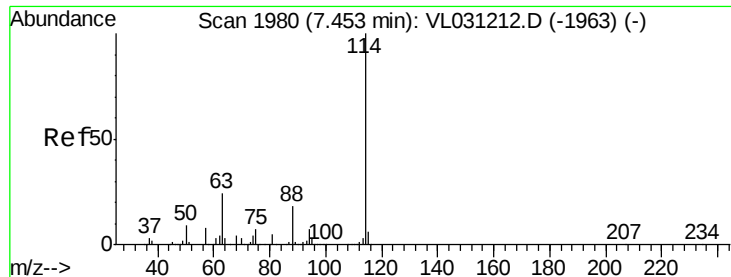
Ion Ratio Lower Upper

97 100

99 128.7 51.4 77.0#

61 94.6 38.4 57.6#

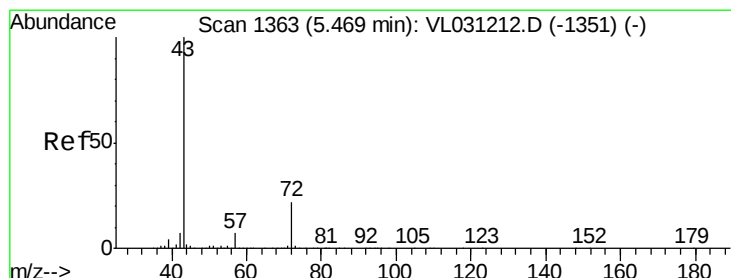
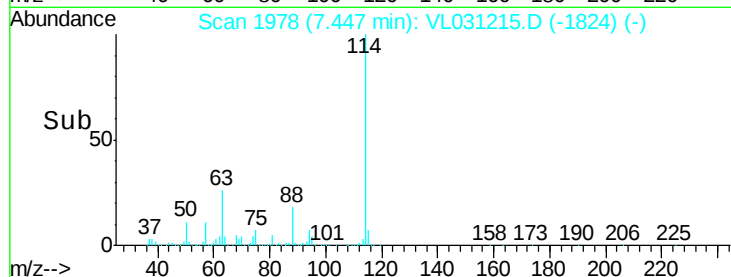
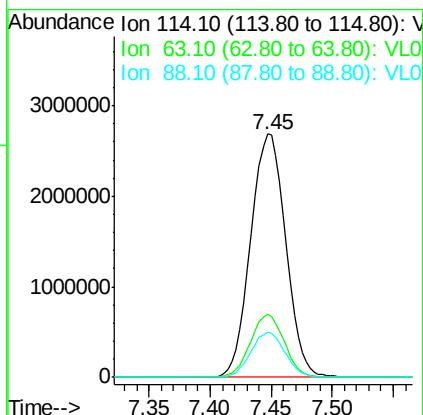
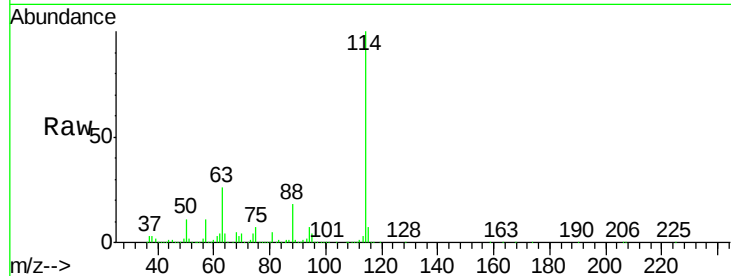




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1978
 Delta R.T. -0.01 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

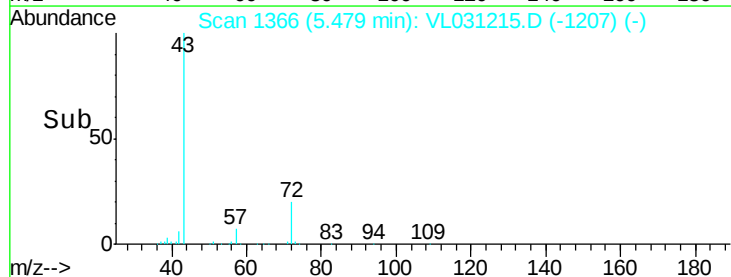
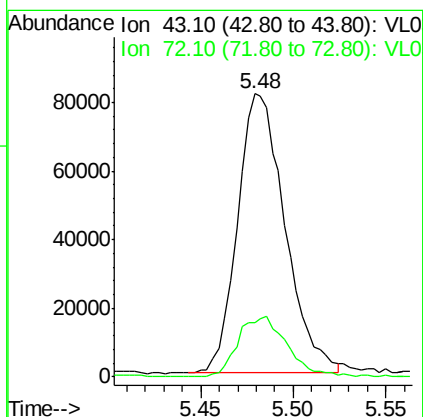
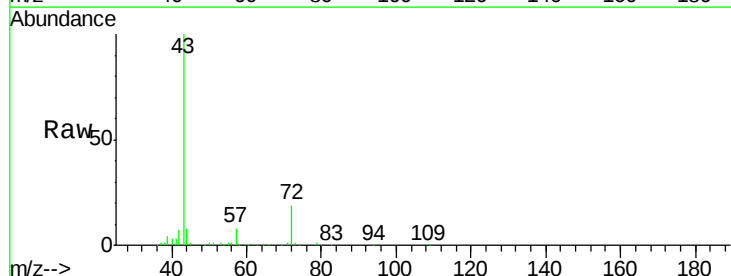
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

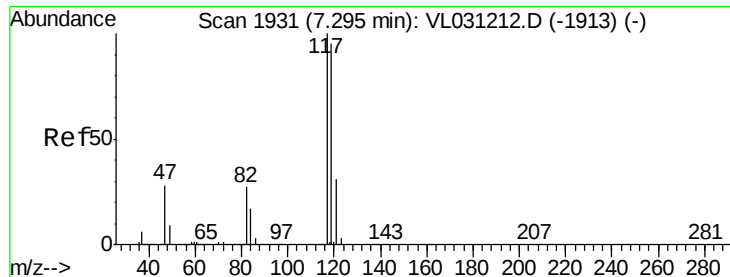
Tgt Ion:114 Resp: 5337667
 Ion Ratio Lower Upper
 114 100
 63 25.1 19.8 29.8
 88 18.1 14.2 21.4



#34
 2-Butanone
 Concen: 0.33 ppbv
 RT: 5.48 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 43 Resp: 143523
 Ion Ratio Lower Upper
 43 100
 72 22.9 18.1 27.1

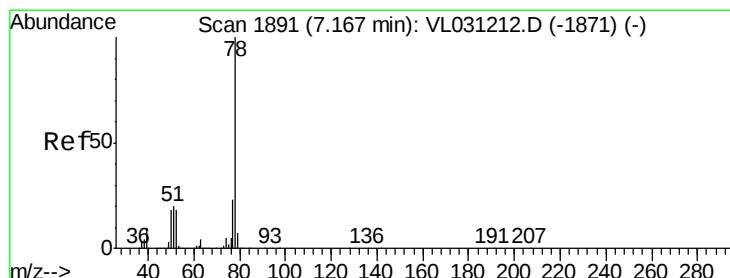
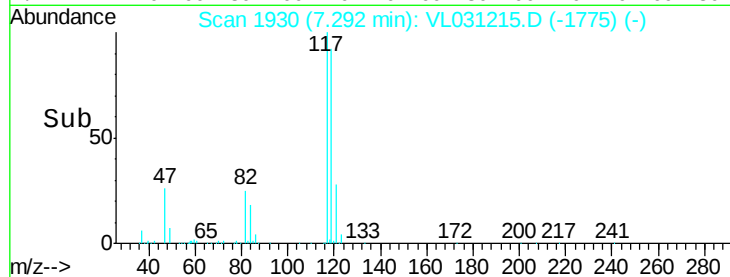
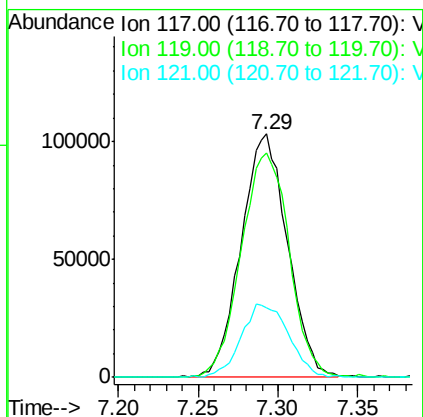
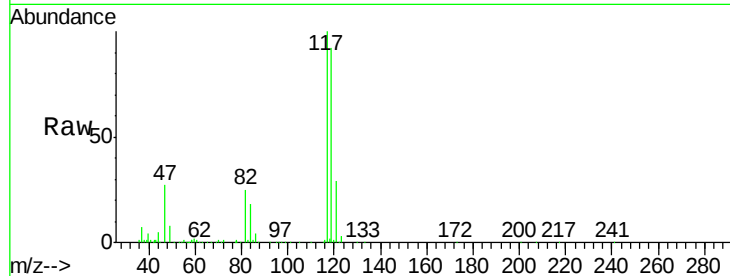




#35
Carbon Tetrachloride
Concen: 0.54 ppbv
RT: 7.29 min Scan# 1930
Delta R.T. -0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

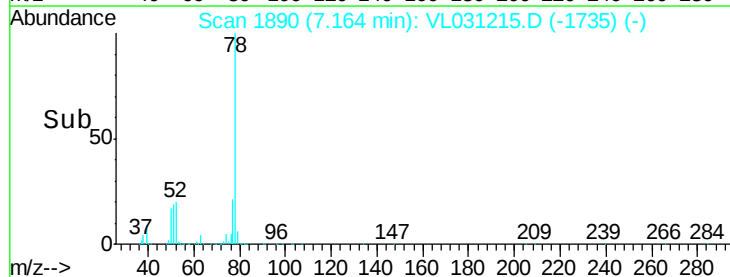
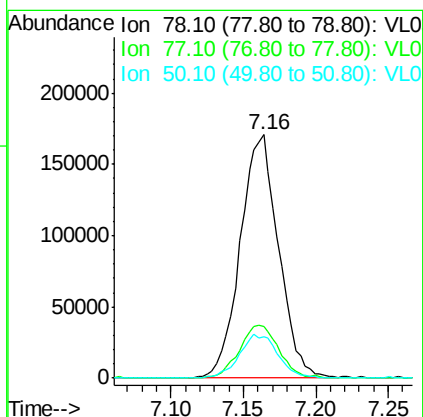
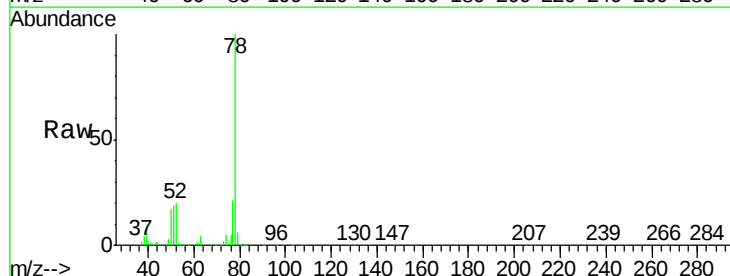
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

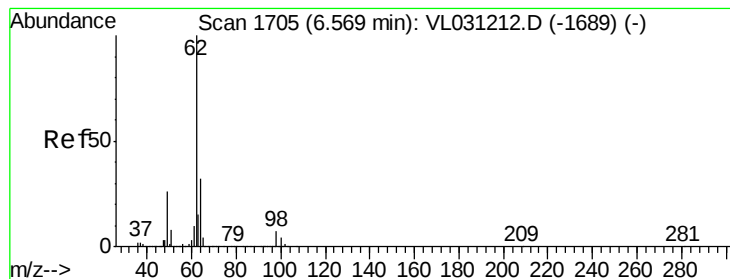
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.1	75.9	113.9
121	28.7	24.6	37.0



#36
Benzene
Concen: 0.51 ppbv
RT: 7.16 min Scan# 1890
Delta R.T. -0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.8	18.1	27.1
50	16.6	14.6	21.8





#37

1,2-Dichloroethane

Concen: 0.48 ppbv

RT: 6.56 min Scan# 1702

Delta R.T. -0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

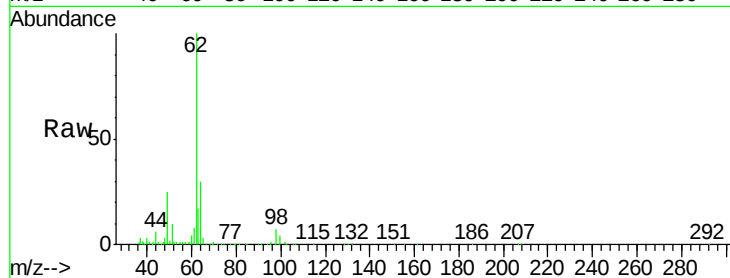
VSTDIC0.5

Tgt Ion: 62 Resp: 172465

Ion Ratio Lower Upper

62 100

98 7.2 5.4 8.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.56

100000

80000

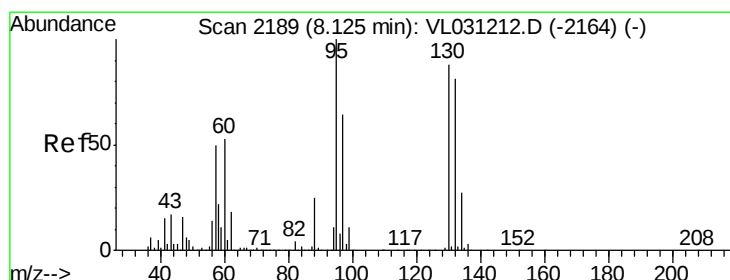
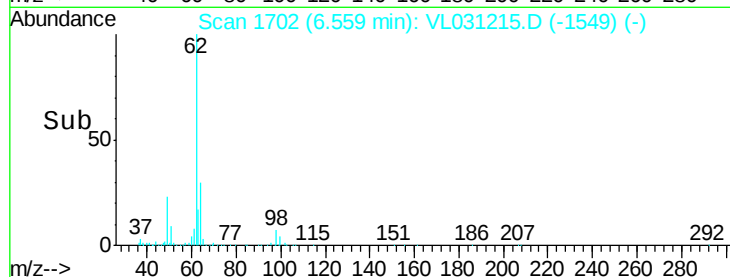
60000

40000

20000

0

Time-->



#38

Trichloroethene

Concen: 0.37 ppbv

RT: 8.12 min Scan# 2188

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Tgt Ion: 130 Resp: 85074

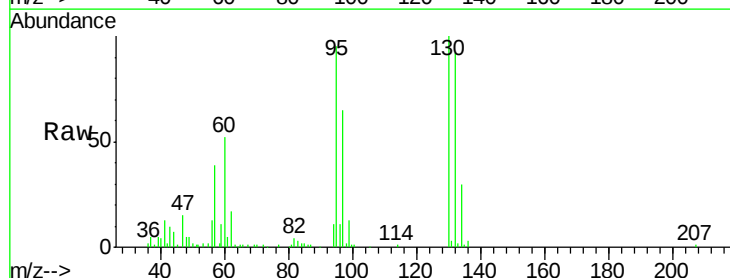
Ion Ratio Lower Upper

130 100

95 95.2 90.6 135.8

132 91.8 73.5 110.3

97 64.7 57.8 86.8



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

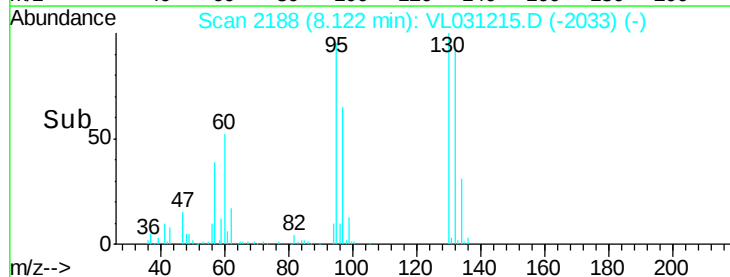
60000

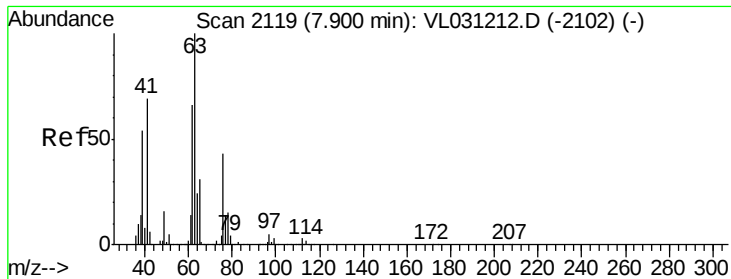
40000

20000

0

Time-->

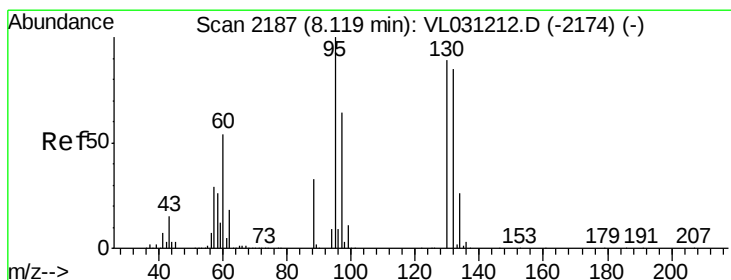
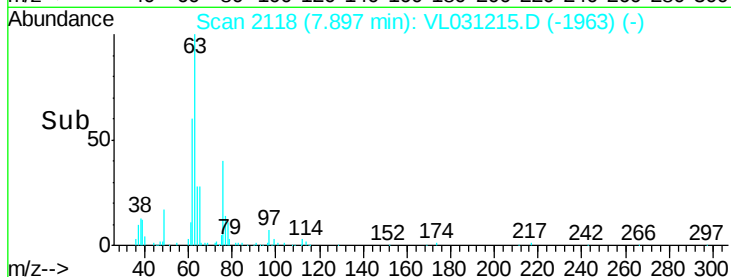
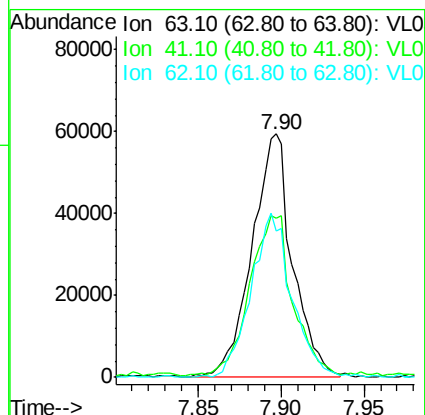
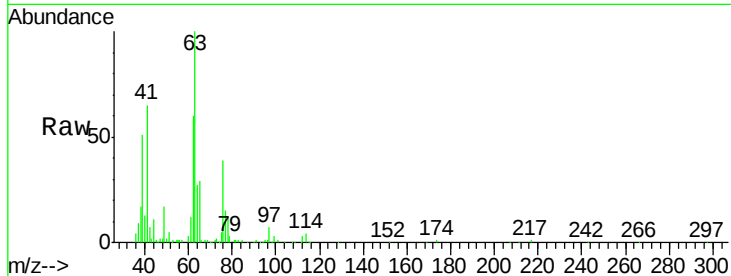




#39
 1,2-Dichloropropane
 Concen: 0.43 ppbv
 RT: 7.90 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

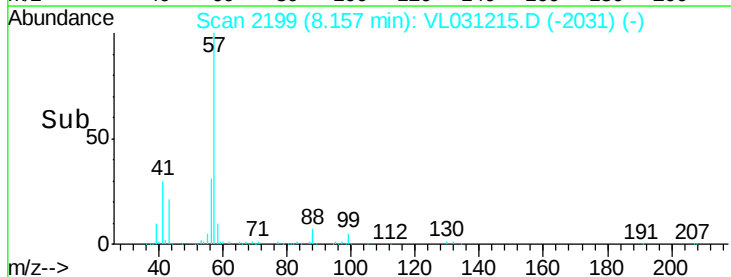
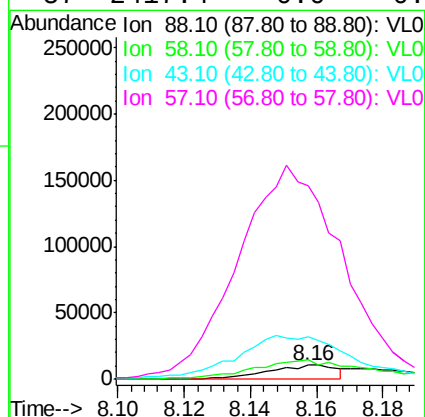
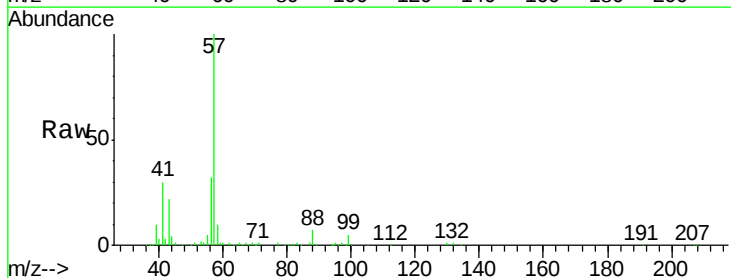
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

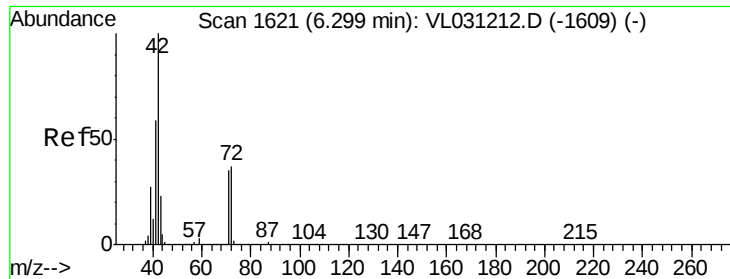
Tgt Ion: 63 Resp: 101403
 Ion Ratio Lower Upper
 63 100
 41 64.0 55.2 82.8
 62 59.7 53.0 79.4



#40
 1,4-Dioxane
 Concen: 0.16 ppbv
 RT: 8.16 min Scan# 2199
 Delta R.T. 0.04 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 88 Resp: 14818
 Ion Ratio Lower Upper
 88 100
 58 274.3 104.3 156.5#
 43 546.3 0.0 0.0#
 57 2417.4 0.0 0.0#

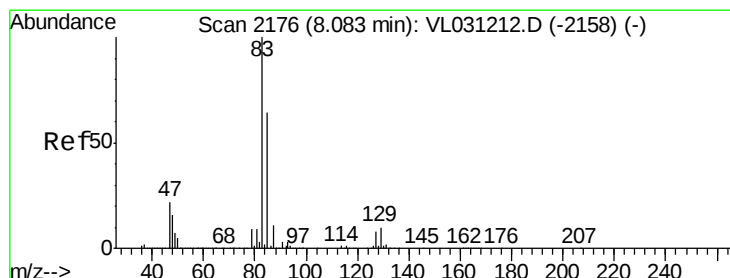
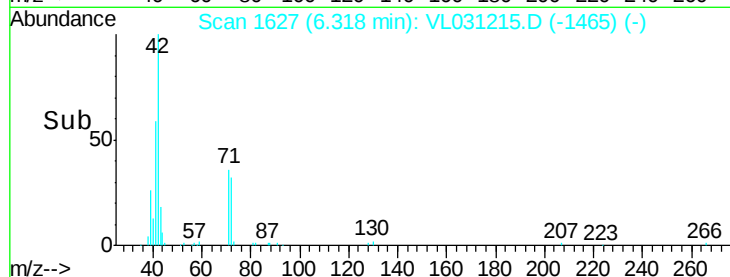
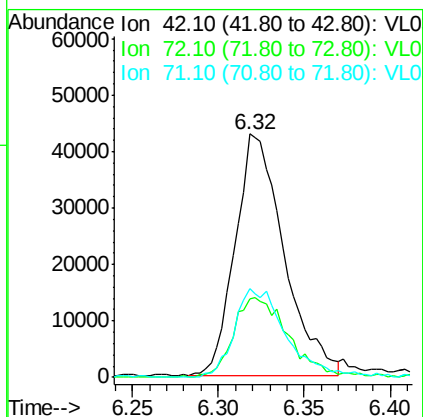
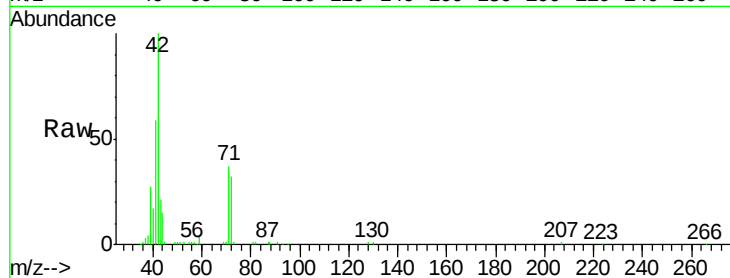




#41
Tetrahydrofuran
Concen: 0.37 ppbv
RT: 6.32 min Scan# 1627
Delta R.T. 0.02 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

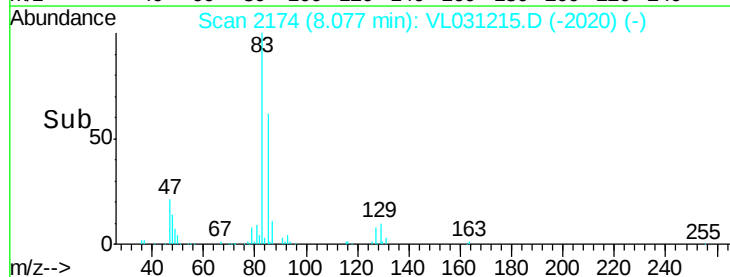
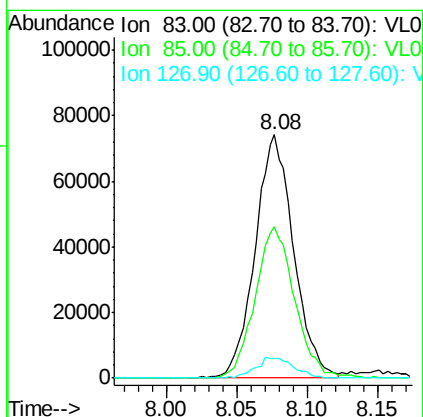
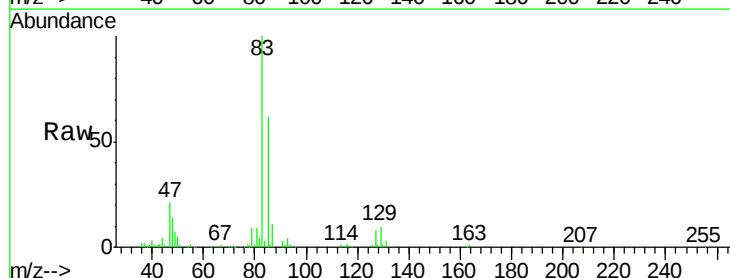
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

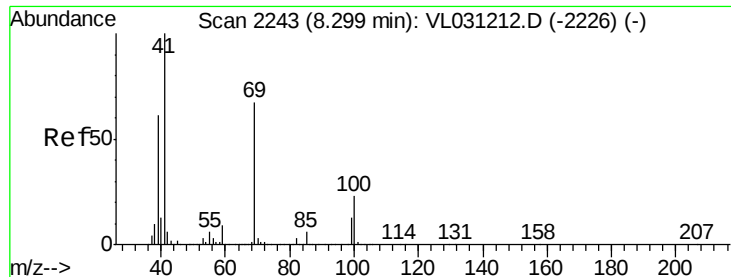
Tgt Ion: 42 Resp: 84593
Ion Ratio Lower Upper
42 100
72 38.3 30.2 45.4
71 39.3 29.0 43.6



#42
Bromodichloromethane
Concen: 0.33 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. -0.01 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion: 83 Resp: 141606
Ion Ratio Lower Upper
83 100
85 62.3 51.5 77.3
127 8.2 6.5 9.7

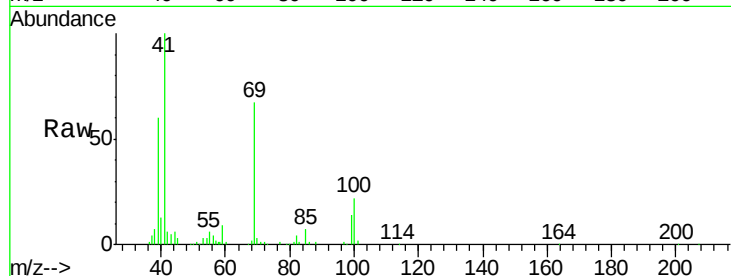




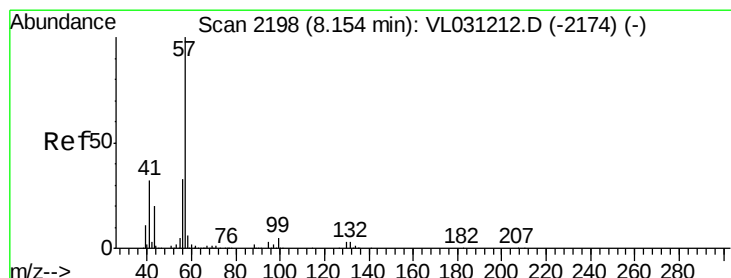
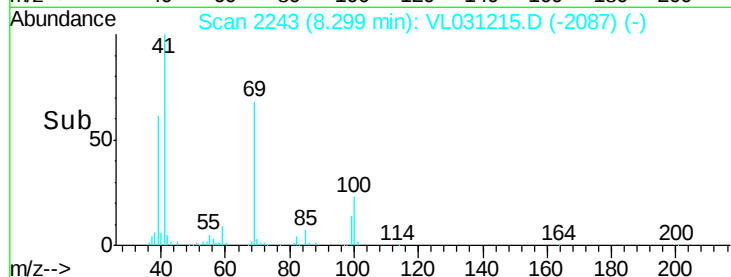
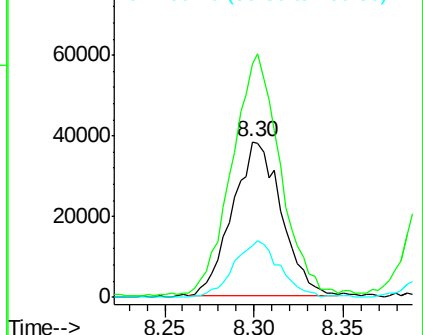
#43
Methyl Methacrylate
Concen: 0.34 ppbv
RT: 8.30 min Scan# 2243
Delta R.T. 0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 69 Resp: 73687
Ion Ratio Lower Upper
69 100
41 154.8 121.1 181.7
100 34.8 27.4 41.2

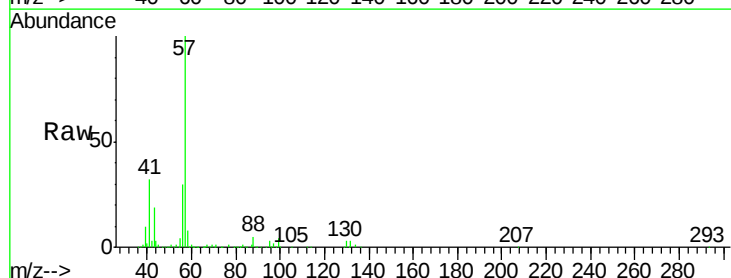


Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0

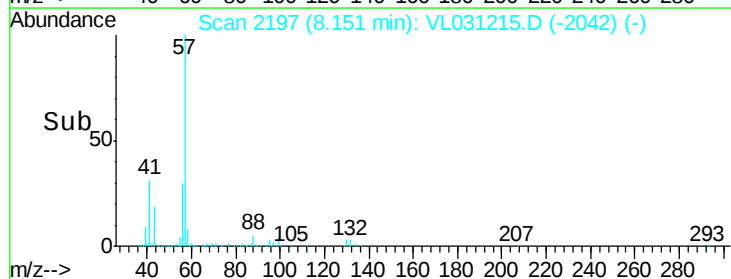
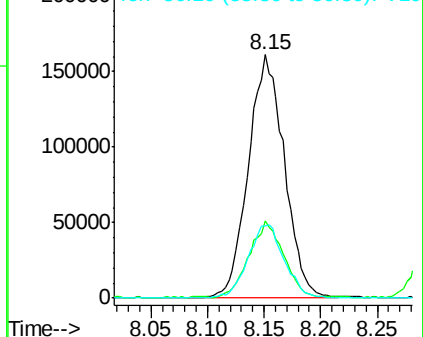


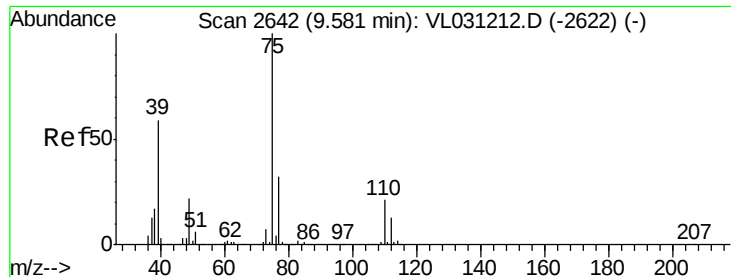
#44
2,2,4-Trimethylpentane
Concen: 0.35 ppbv
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion: 57 Resp: 357013
Ion Ratio Lower Upper
57 100
41 30.1 25.5 38.3
56 30.2 25.0 37.6



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





#45

t-1,3-Dichloropropene

Concen: 0.36 ppbv

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

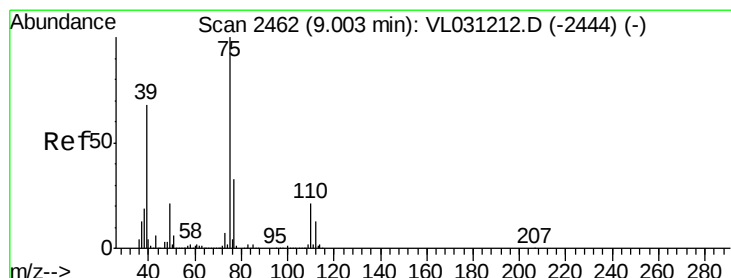
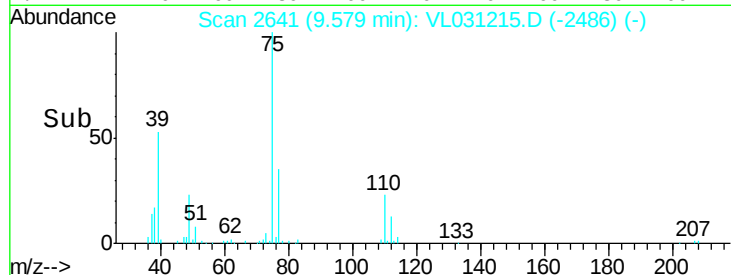
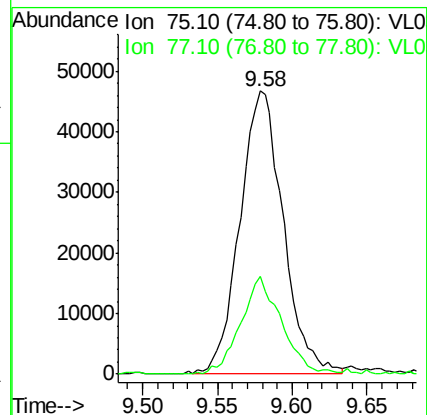
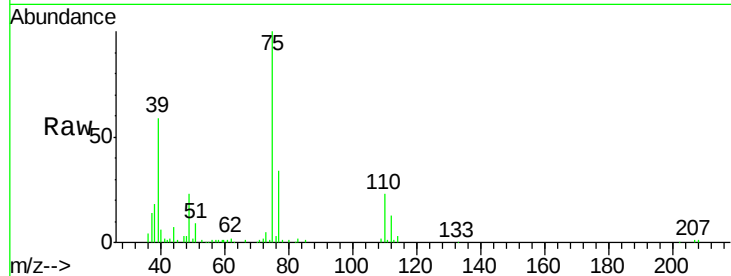
VSTDIC0.5

Tgt Ion: 75 Resp: 94303

Ion Ratio Lower Upper

75 100

77 34.5 25.4 38.2



#46

cis-1,3-Dichloropropene

Concen: 0.35 ppbv

RT: 9.00 min Scan# 2461

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

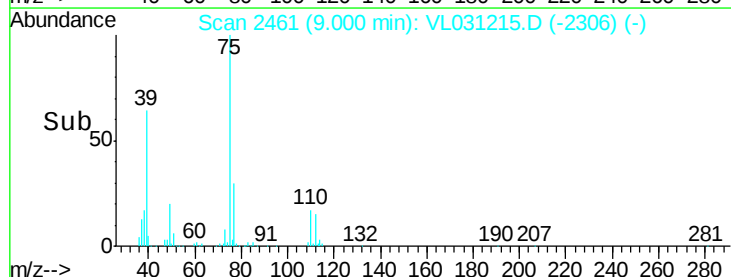
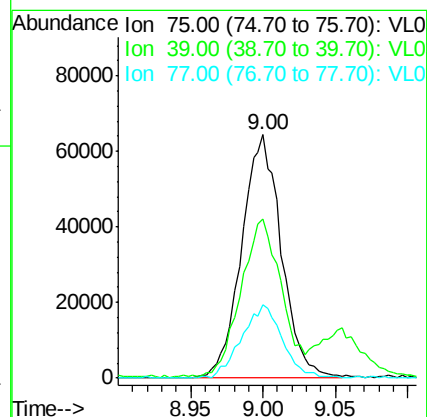
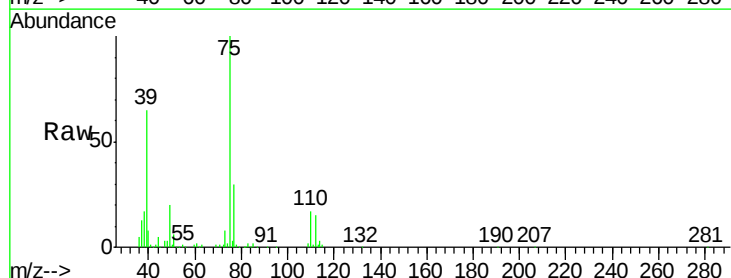
Tgt Ion: 75 Resp: 122703

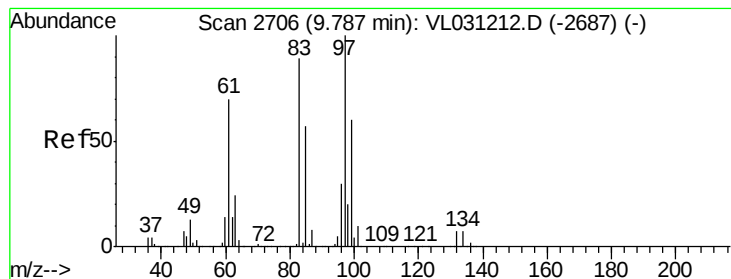
Ion Ratio Lower Upper

75 100

39 64.2 54.2 81.4

77 29.9 26.2 39.4





#47

1,1,2-Trichloroethane

Concen: 0.34 ppbv

RT: 9.78 min Scan# 2703

Delta R.T. -0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 97 Resp: 83744

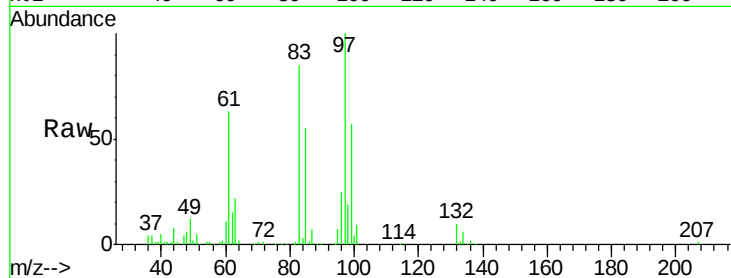
Ion Ratio Lower Upper

97 100

83 85.2 71.0 106.4

85 54.2 45.3 67.9

99 56.6 47.8 71.6

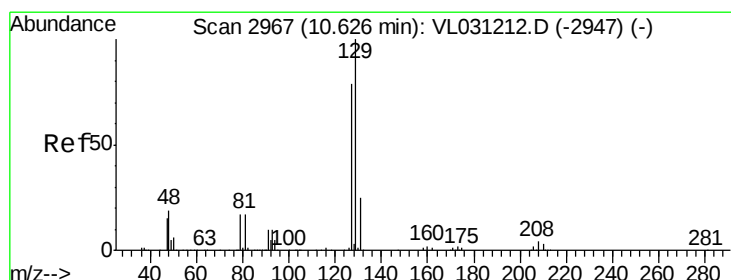
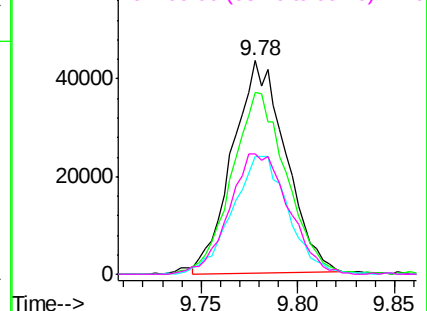
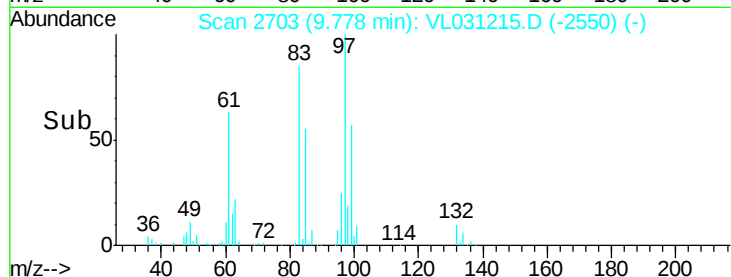


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 0.36 ppbv

RT: 10.62 min Scan# 2964

Delta R.T. -0.01 min

Lab File: VL031215.D

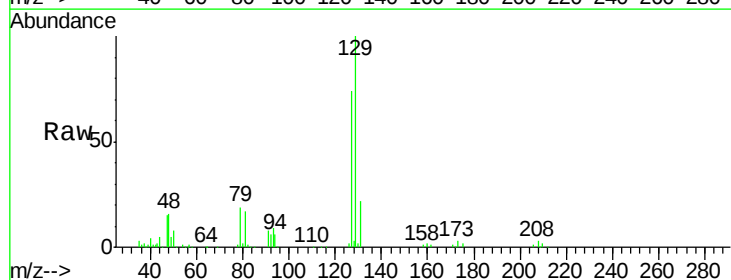
Acq: 14 Dec 2017 00:21

Tgt Ion: 129 Resp: 120414

Ion Ratio Lower Upper

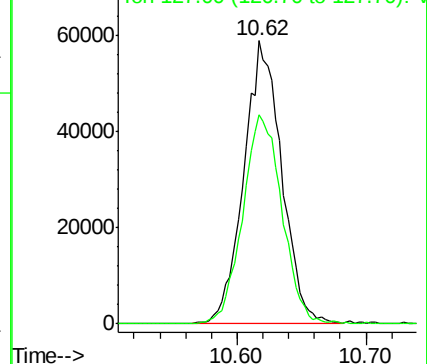
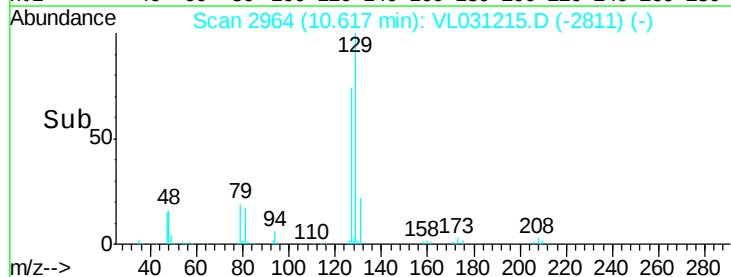
129 100

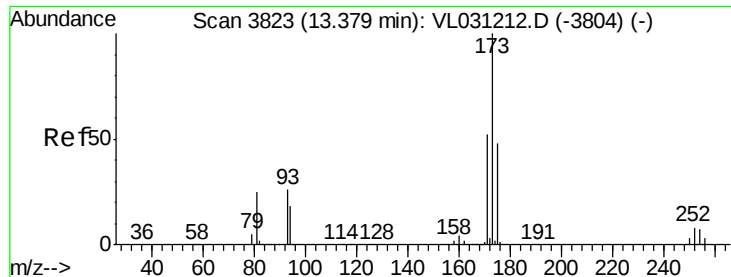
127 76.7 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.32 ppbv

RT: 13.37 min Scan# 3821

Delta R.T. -0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

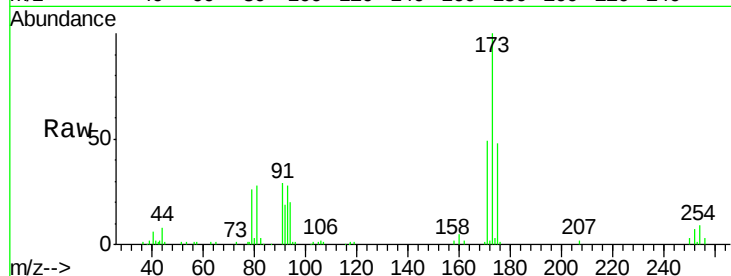
Tgt Ion: 173 Resp: 81129

Ion Ratio Lower Upper

173 100

175 49.2 39.0 58.4

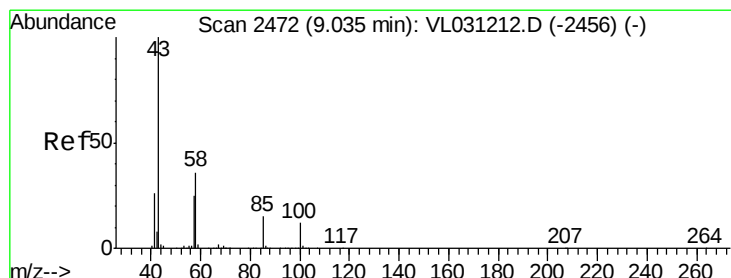
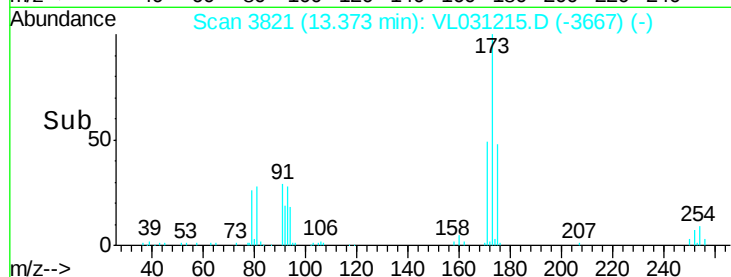
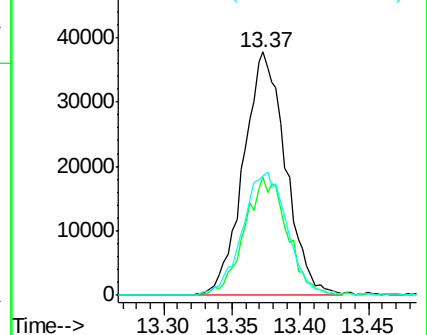
171 54.0 41.8 62.8



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: 0.33 ppbv

RT: 9.05 min Scan# 2477

Delta R.T. 0.02 min

Lab File: VL031215.D

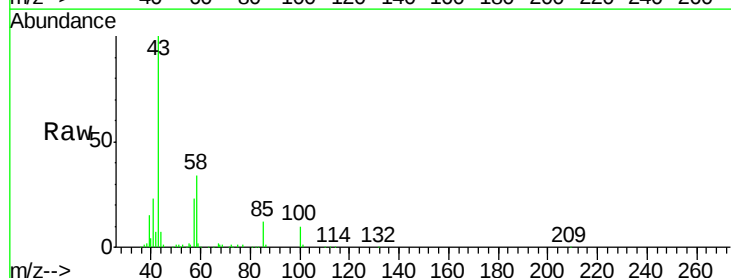
Acq: 14 Dec 2017 00:21

Tgt Ion: 43 Resp: 180702

Ion Ratio Lower Upper

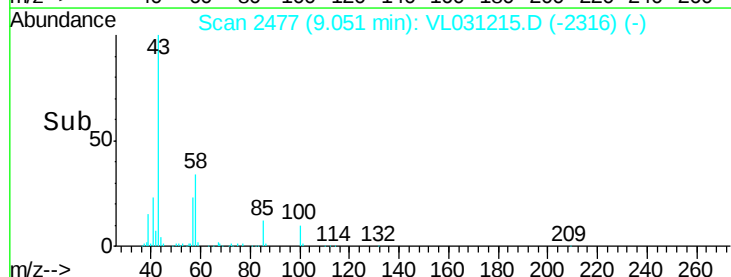
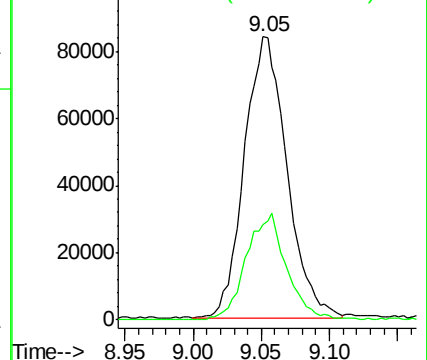
43 100

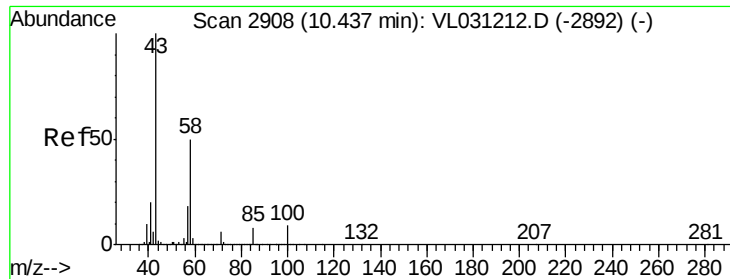
58 36.4 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

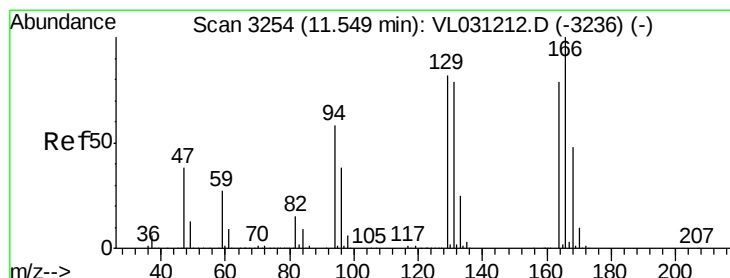
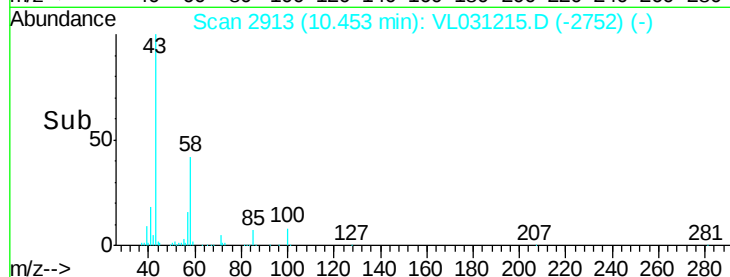
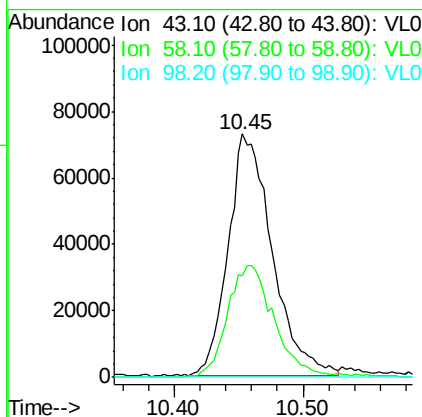
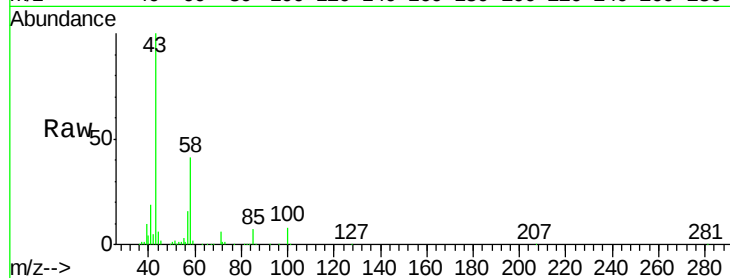




#51
2-Hexanone
Concen: 0.33 ppbv
RT: 10.45 min Scan# 2913
Delta R.T. 0.02 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

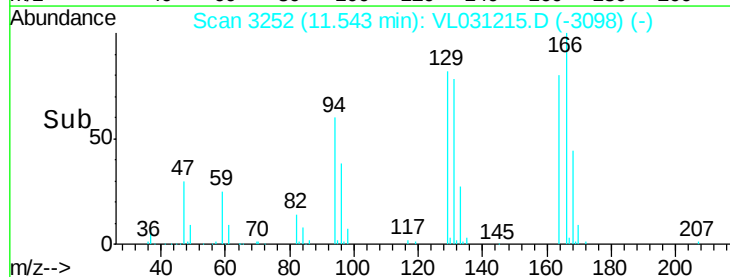
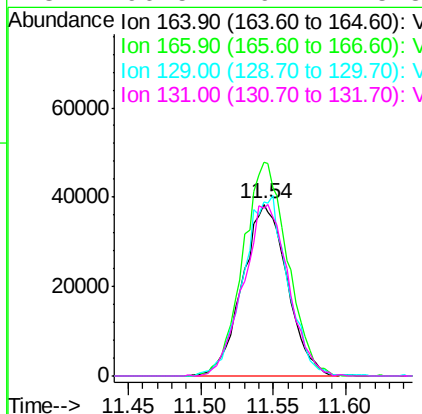
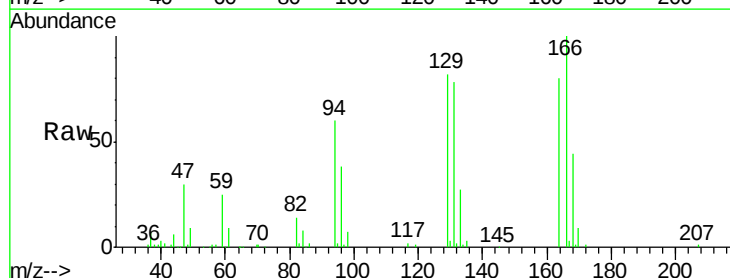
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

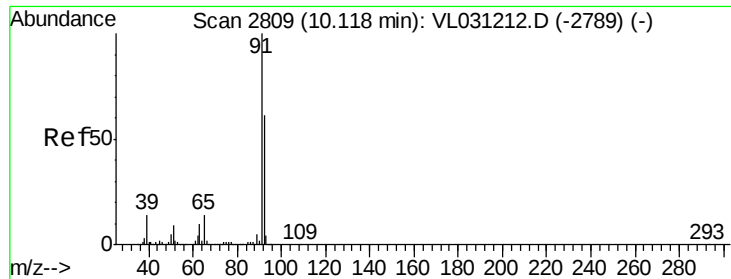
Tgt Ion: 43 Resp: 171648
Ion Ratio Lower Upper
43 100
58 50.3 39.8 59.6
98 0.0 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.38 ppbv
RT: 11.54 min Scan# 3252
Delta R.T. -0.01 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion: 164 Resp: 82357
Ion Ratio Lower Upper
164 100
166 124.4 100.6 151.0
129 101.4 82.9 124.3
131 96.5 79.2 118.8





#53

Toluene

Concen: 0.36 ppbv

RT: 10.11 min Scan# 2807

Delta R.T. -0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

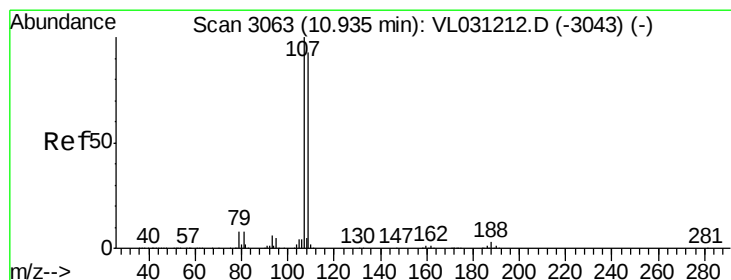
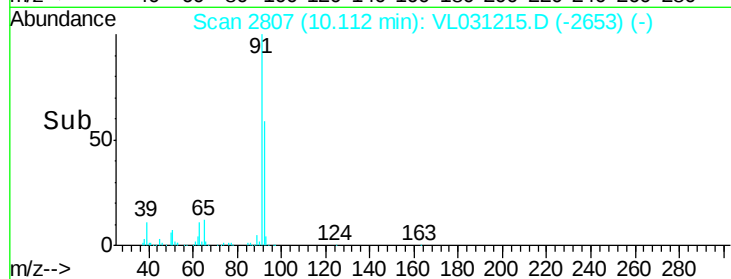
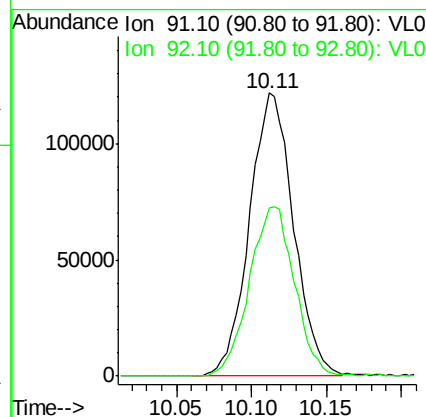
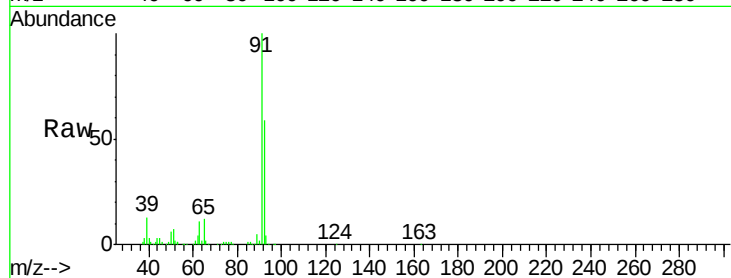
VSTDIC0.5

Tgt Ion: 91 Resp: 249274

Ion Ratio Lower Upper

91 100

92 61.5 49.1 73.7



#54

1,2-Dibromoethane

Concen: 0.36 ppbv

RT: 10.93 min Scan# 3061

Delta R.T. -0.01 min

Lab File: VL031215.D

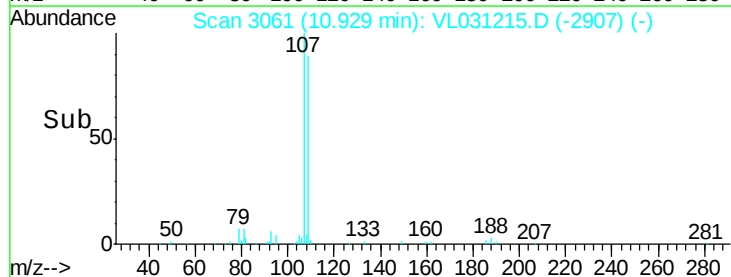
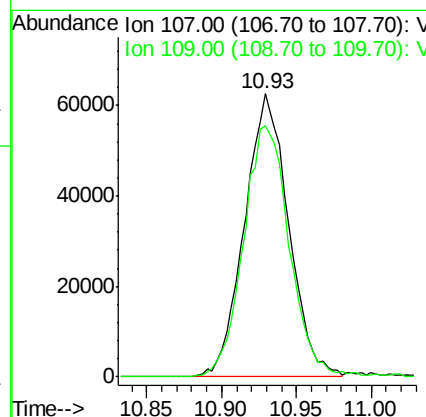
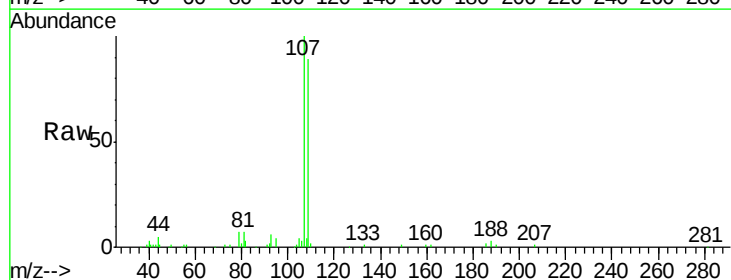
Acq: 14 Dec 2017 00:21

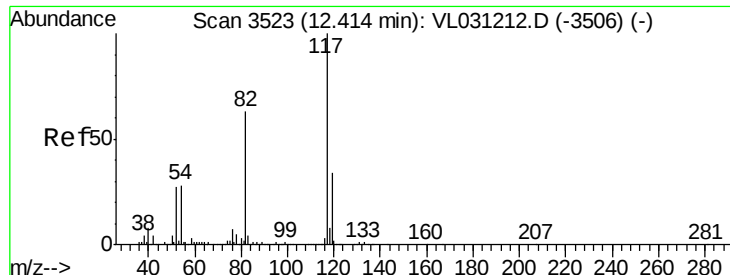
Tgt Ion: 107 Resp: 128316

Ion Ratio Lower Upper

107 100

109 88.6 74.7 112.1

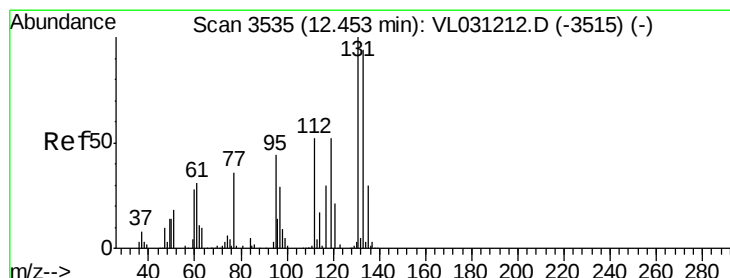
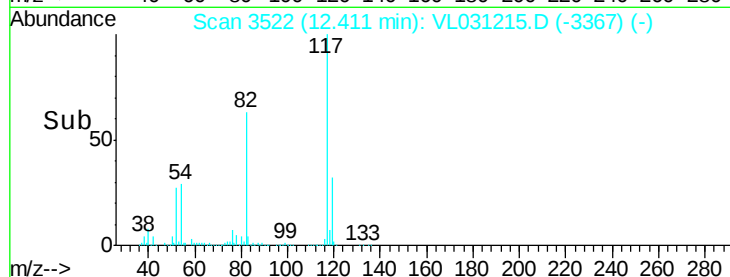
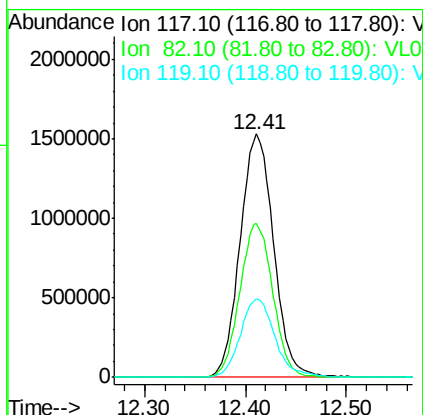
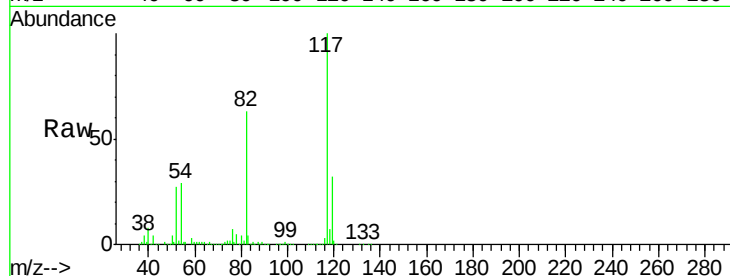




#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

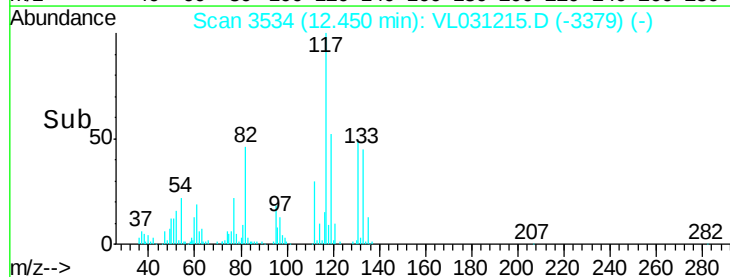
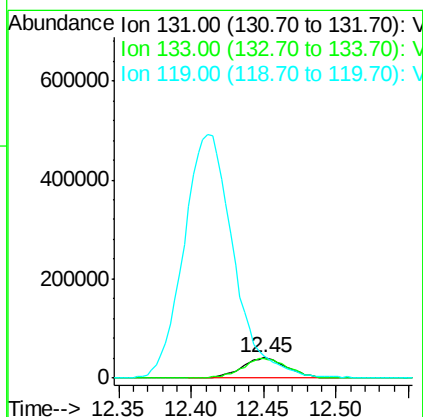
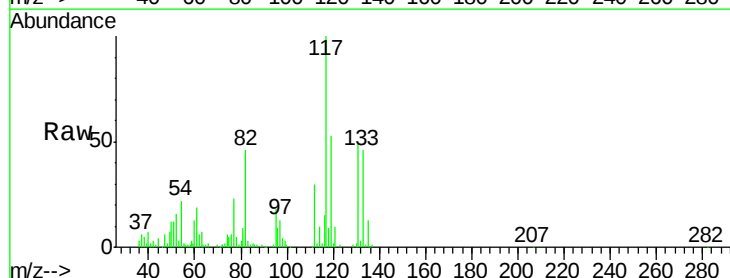
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

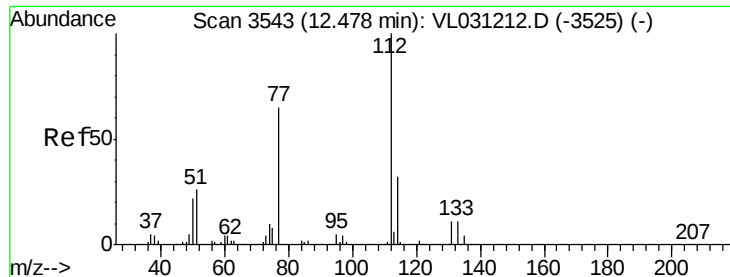
Tgt Ion:117 Resp: 3527660
Ion Ratio Lower Upper
117 100
82 62.3 48.1 72.1
119 33.5 23.1 34.7



#56
1,1,1,2-Tetrachloroethane
Concen: 0.62 ppbv
RT: 12.45 min Scan# 3534
Delta R.T. -0.00 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion:131 Resp: 89253
Ion Ratio Lower Upper
131 100
133 98.8 76.1 114.1
119 1323.8 108.5 162.7#

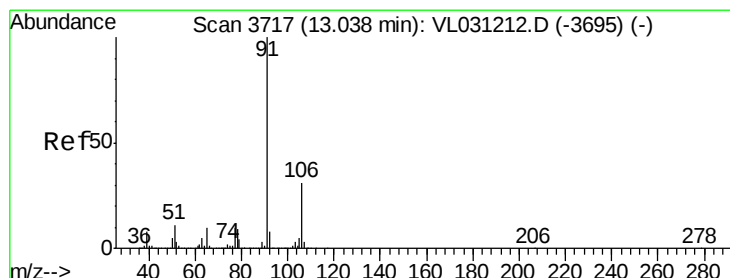
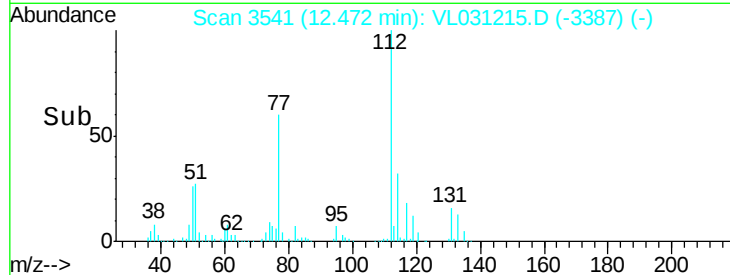
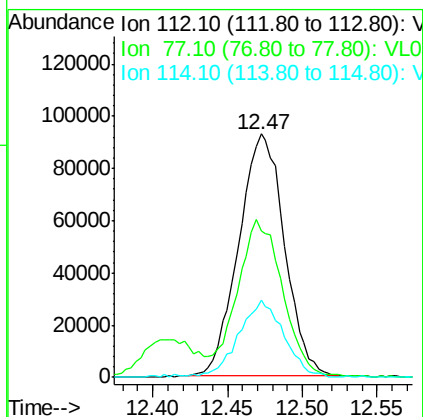
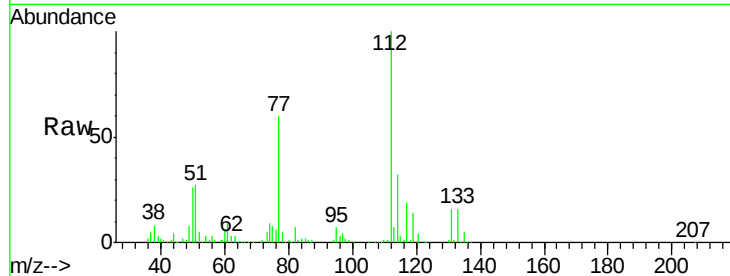




#57
Chlorobenzene
Concen: 0.57 ppbv
RT: 12.47 min Scan# 3541
Delta R.T. -0.01 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

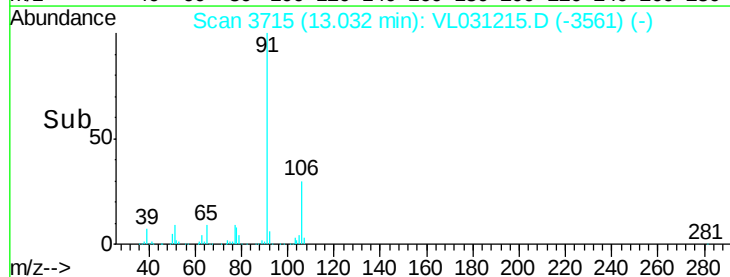
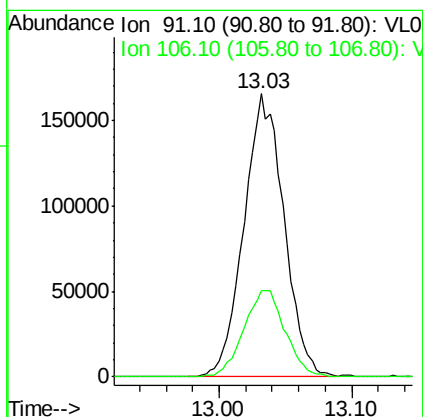
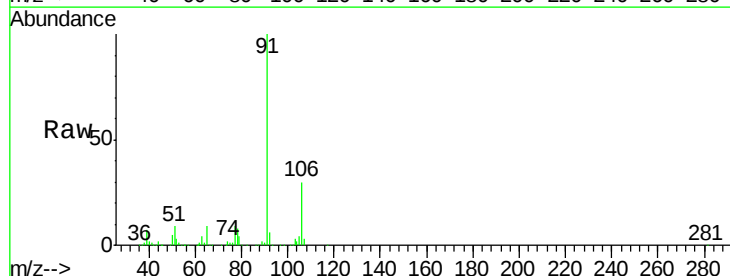
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

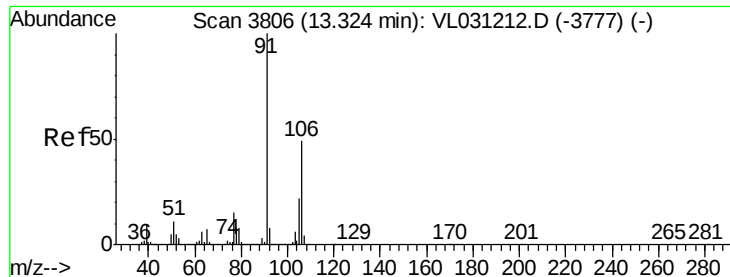
Tgt Ion: 112 Resp: 197394
Ion Ratio Lower Upper
112 100
77 59.4 52.9 79.3
114 31.7 29.1 35.5



#58
Ethyl Benzene
Concen: 0.58 ppbv
RT: 13.03 min Scan# 3715
Delta R.T. -0.01 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion: 91 Resp: 347639
Ion Ratio Lower Upper
91 100
106 30.5 25.1 37.7





#59

m/p-Xylene

Concen: 0.29 ppbv

RT: 13.32 min Scan# 3806

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

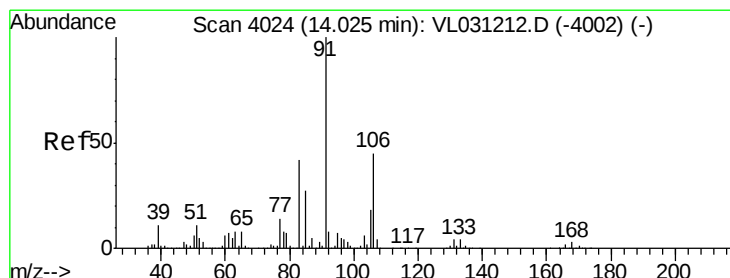
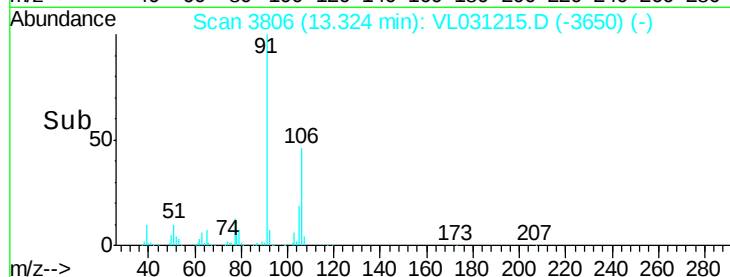
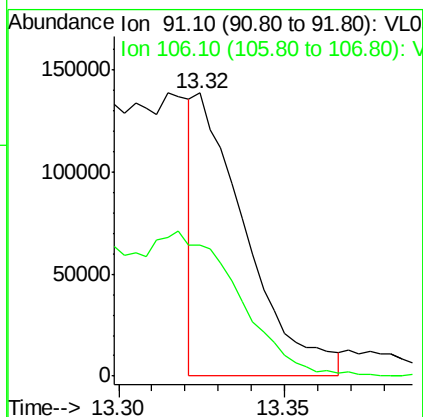
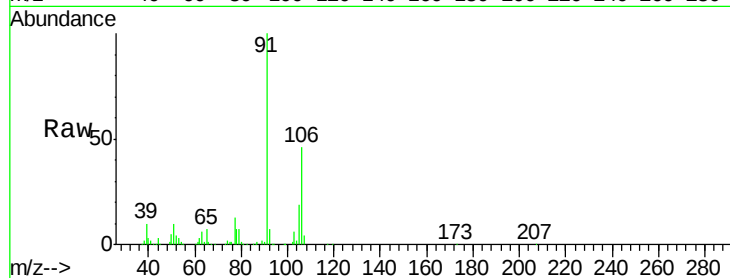
VSTDIC0.5

Tgt Ion: 91 Resp: 147366

Ion Ratio Lower Upper

91 100

106 0.0 38.5 57.7#



#60

o-Xylene

Concen: 0.35 ppbv

RT: 14.02 min Scan# 4021

Delta R.T. -0.01 min

Lab File: VL031215.D

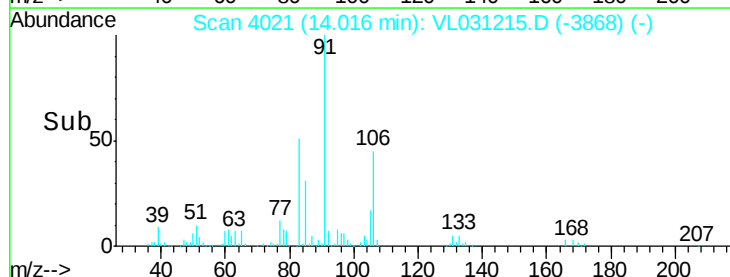
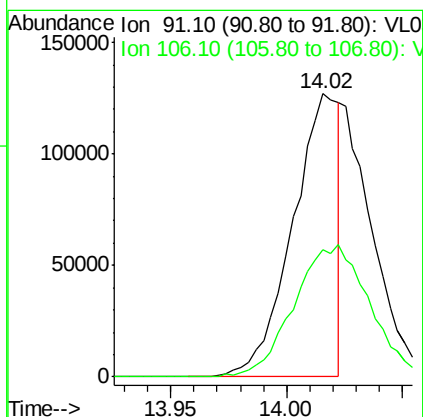
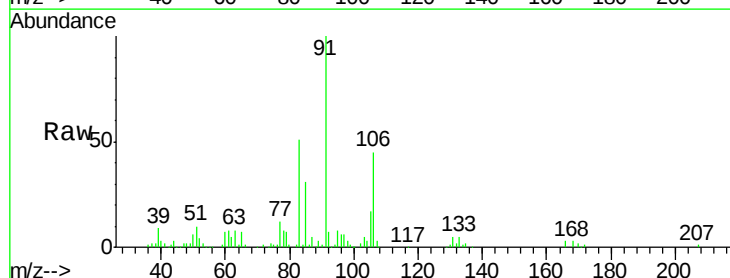
Acq: 14 Dec 2017 00:21

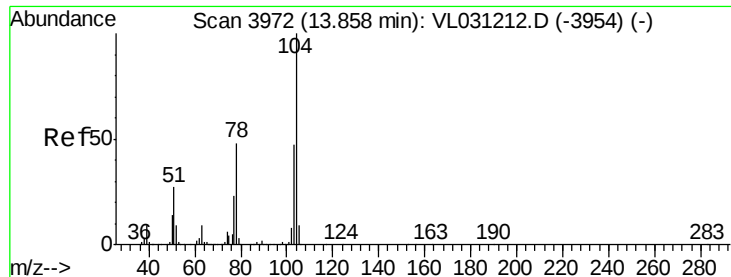
Tgt Ion: 91 Resp: 175572

Ion Ratio Lower Upper

91 100

106 76.3 22.7 68.1#

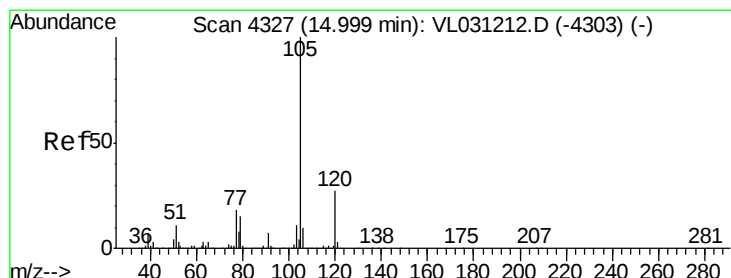
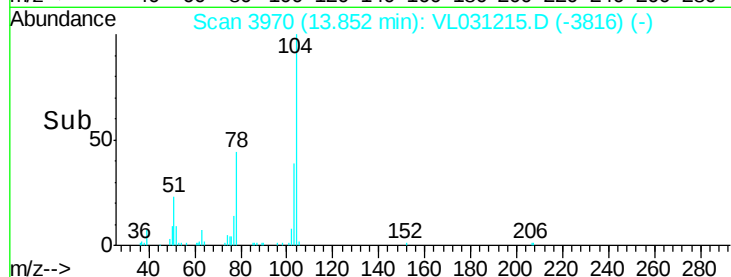
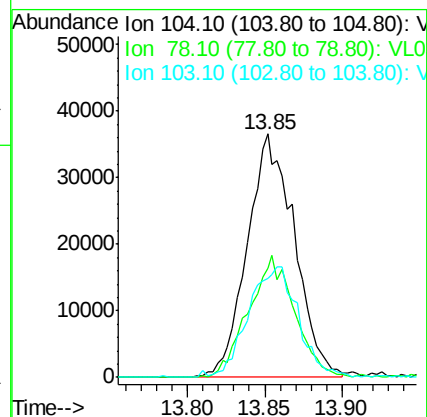
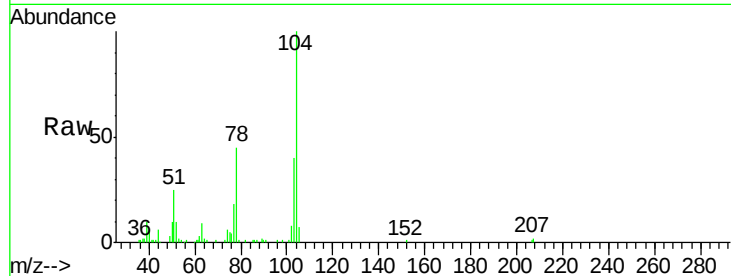




#61
Styrene
Concen: 0.61 ppbv
RT: 13.85 min Scan# 3970
Delta R.T. -0.01 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

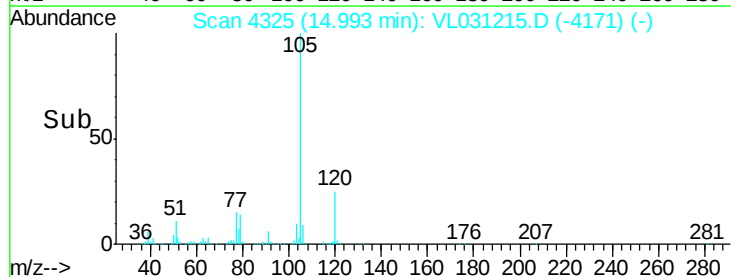
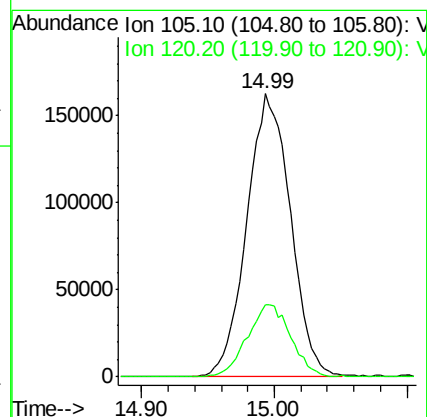
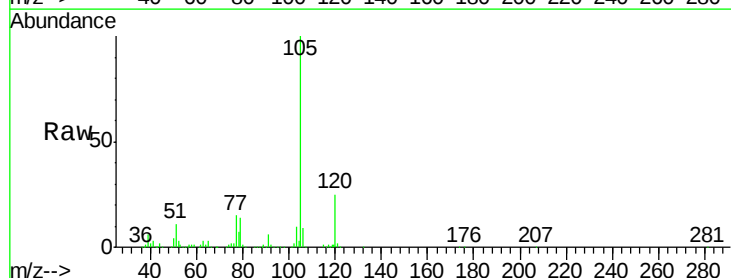
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

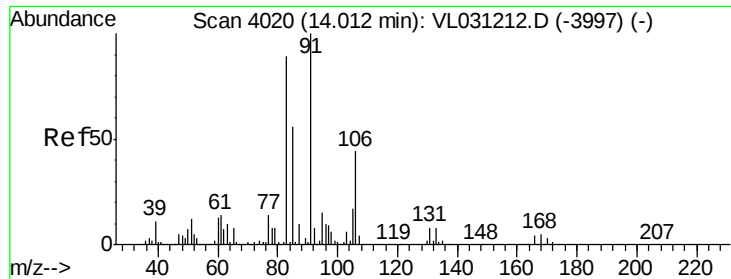
Tgt Ion:104 Resp: 77385
Ion Ratio Lower Upper
104 100
78 49.7 39.1 58.7
103 48.8 37.3 55.9



#62
Isopropylbenzene
Concen: 0.61 ppbv
RT: 14.99 min Scan# 4325
Delta R.T. -0.01 min
Lab File: VL031215.D
Acq: 14 Dec 2017 00:21

Tgt Ion:105 Resp: 372126
Ion Ratio Lower Upper
105 100
120 25.5 21.0 31.6

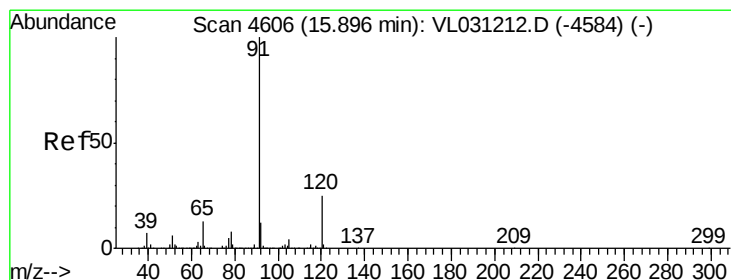
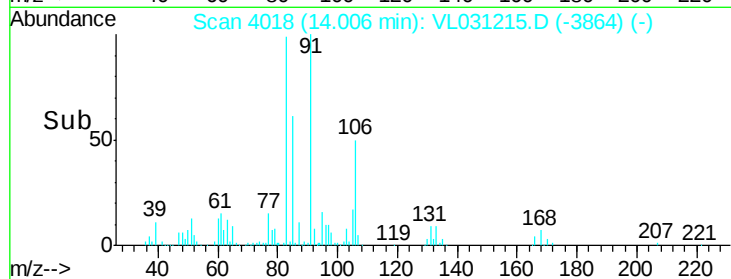
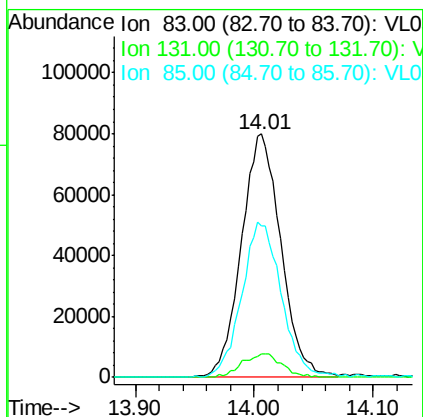
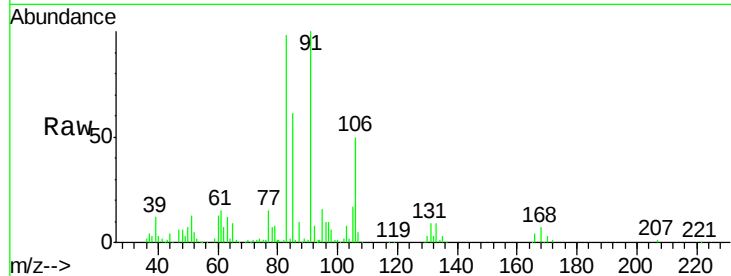




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.47 ppbv
 RT: 14.01 min Scan# 4018
 Delta R.T. -0.01 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

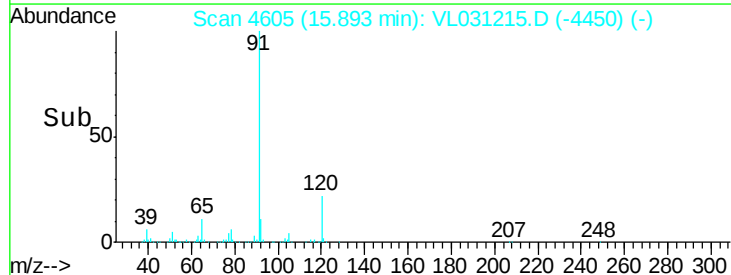
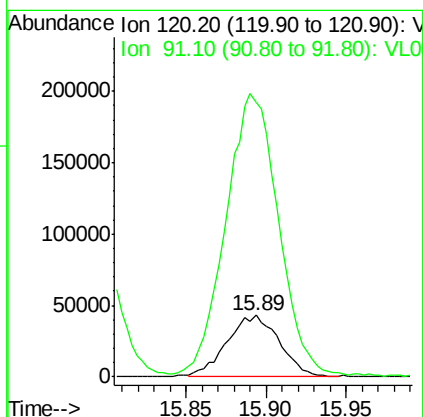
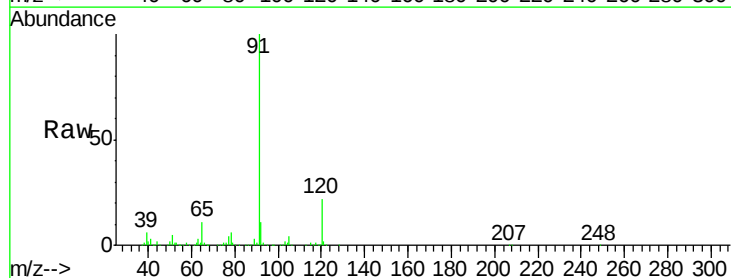
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

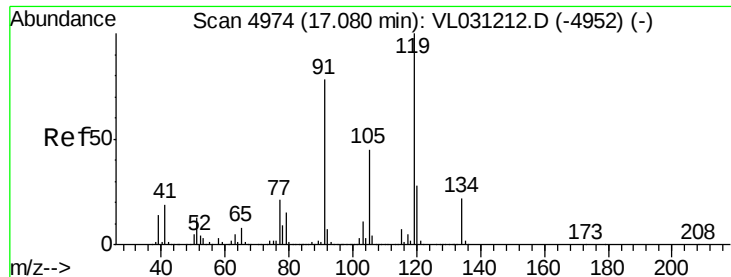
Tgt Ion: 83 Resp: 183858
 Ion Ratio Lower Upper
 83 100
 131 9.9 4.8 14.3
 85 64.2 32.1 96.5



#64
 n-propylbenzene
 Concen: 0.58 ppbv
 RT: 15.89 min Scan# 4605
 Delta R.T. -0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 120 Resp: 95594
 Ion Ratio Lower Upper
 120 100
 91 466.3 352.1 528.1

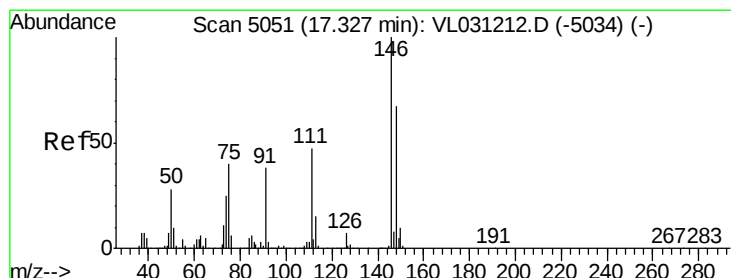
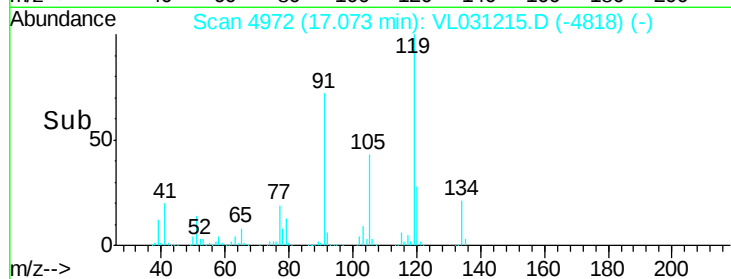
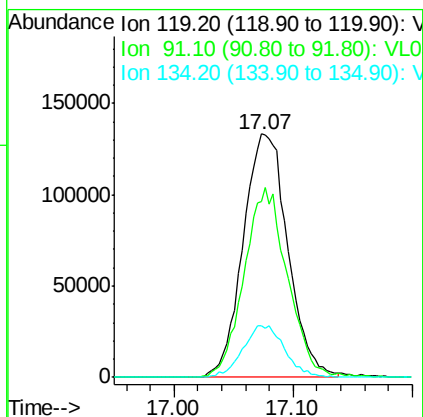
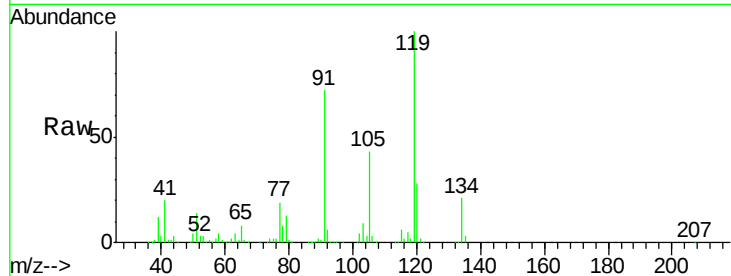




#65
 tert-Butylbenzene
 Concen: 0.65 ppbv
 RT: 17.07 min Scan# 4972
 Delta R.T. -0.01 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

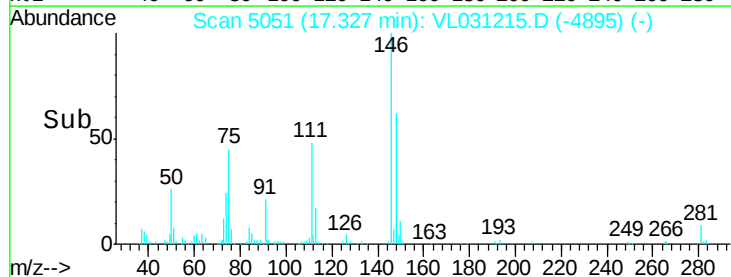
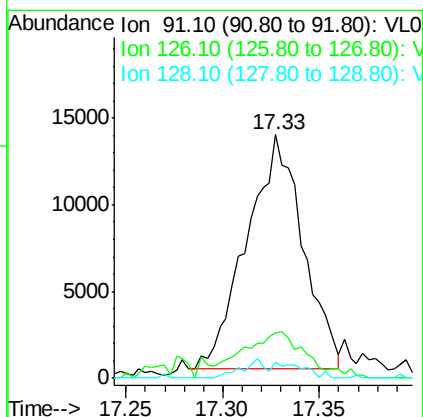
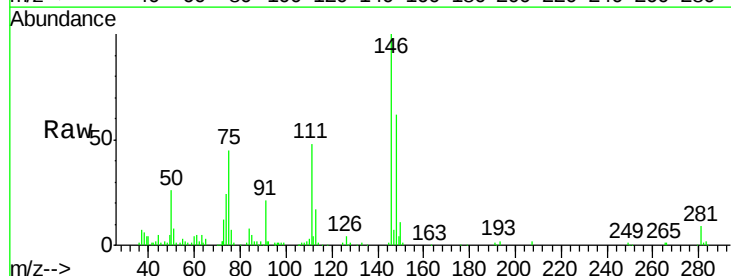
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

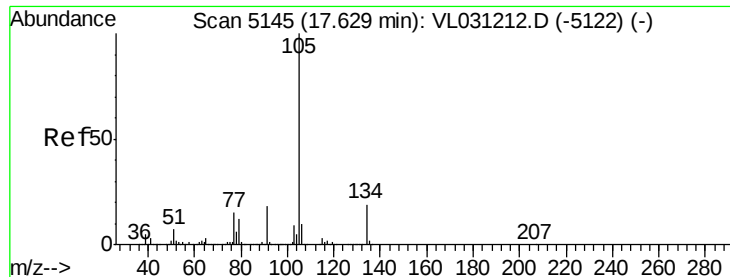
Tgt Ion: 119 Resp: 346361
 Ion Ratio Lower Upper
 119 100
 91 76.0 63.3 94.9
 134 20.0 16.1 24.1



#66
 Benzyl Chloride
 Concen: 0.59 ppbv
 RT: 17.33 min Scan# 5051
 Delta R.T. 0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 91 Resp: 27055
 Ion Ratio Lower Upper
 91 100
 126 24.4 15.2 22.8#
 128 7.1 4.9 7.3

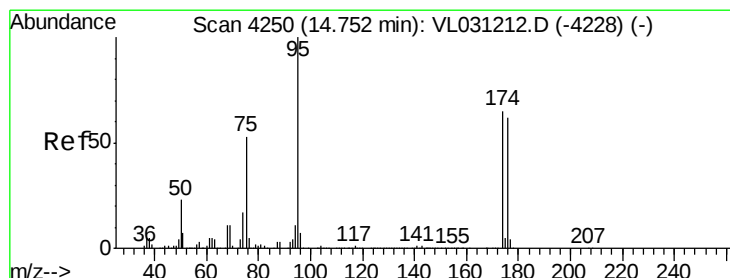
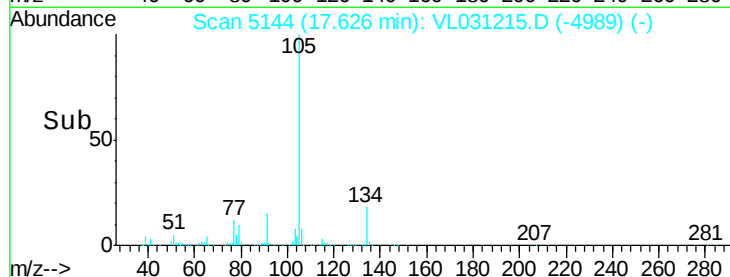
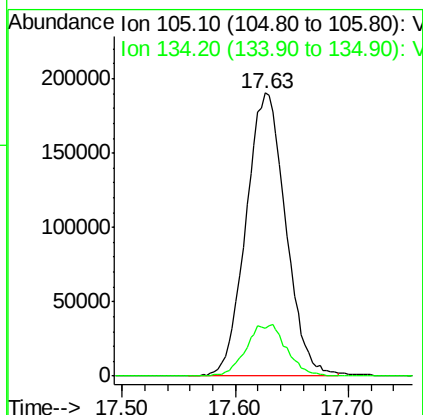
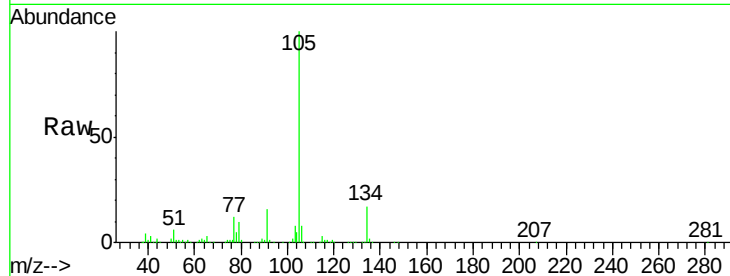




#67
 sec-Butylbenzene
 Concen: 0.58 ppbv
 RT: 17.63 min Scan# 5144
 Delta R.T. -0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

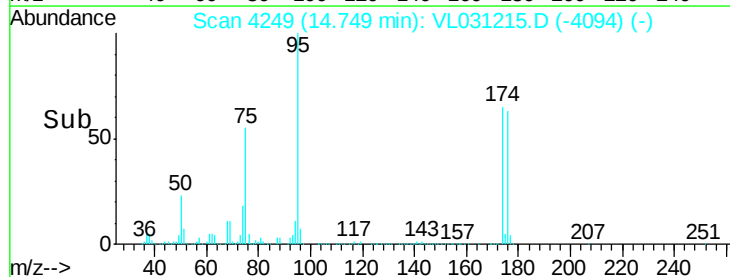
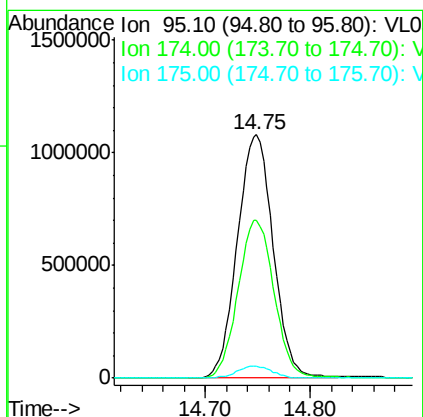
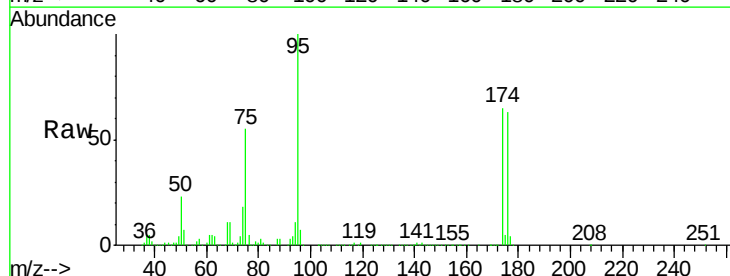
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

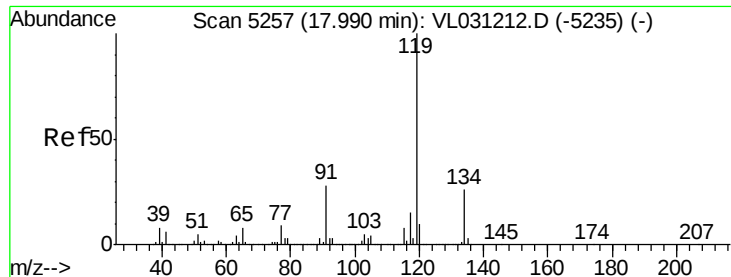
Tgt Ion: 105 Resp: 465018
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.3 22.9



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.37 ppbv
 RT: 14.75 min Scan# 4249
 Delta R.T. -0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 95 Resp: 2555081
 Ion Ratio Lower Upper
 95 100
 174 65.9 52.5 78.7
 175 5.1 4.1 6.1

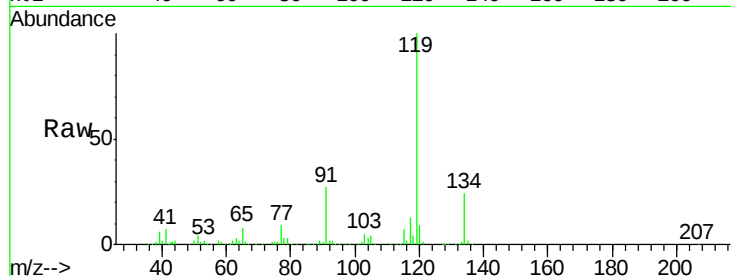




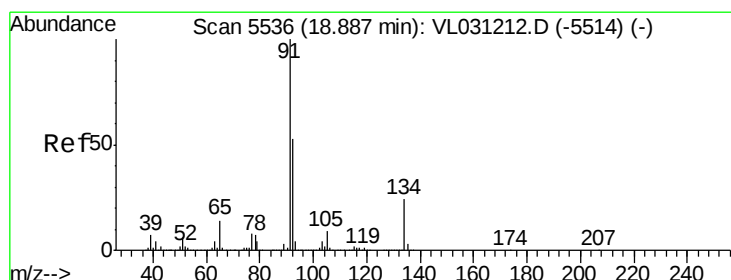
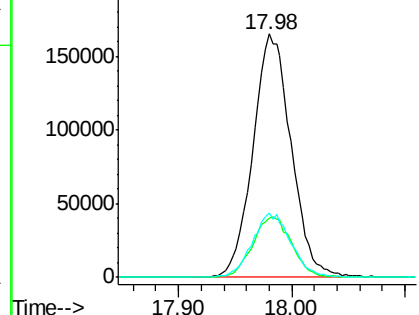
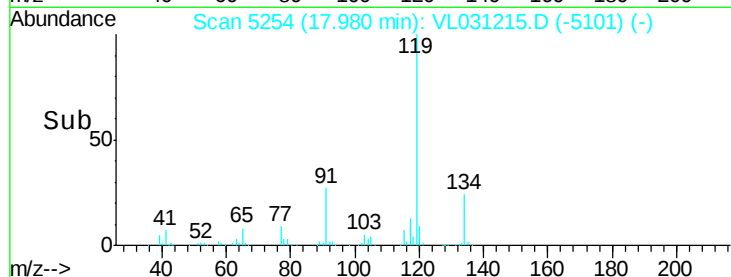
#69
 p-Isopropyltoluene
 Concen: 0.62 ppbv
 RT: 17.98 min Scan# 5254
 Delta R.T. -0.01 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 119 Resp: 386858
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.7 31.1
 91 27.0 22.3 33.5

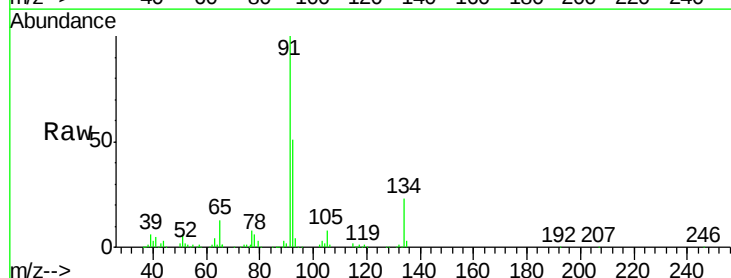


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

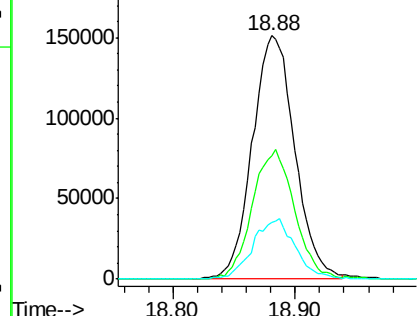
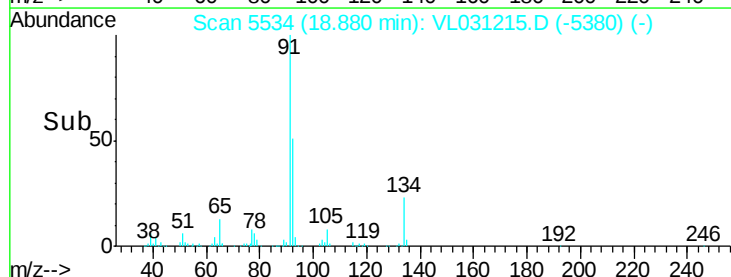


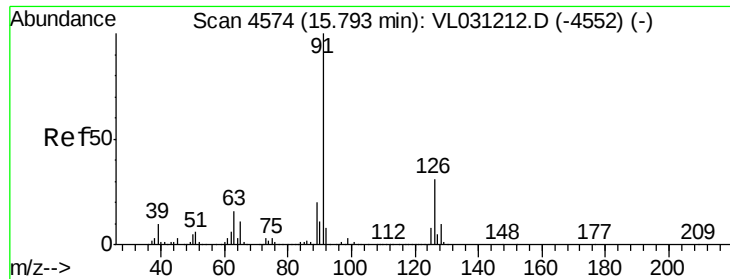
#70
 n-Butylbenzene
 Concen: 0.53 ppbv
 RT: 18.88 min Scan# 5534
 Delta R.T. -0.01 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion: 91 Resp: 362247
 Ion Ratio Lower Upper
 91 100
 92 53.5 43.4 65.2
 134 25.0 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: 0.56 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

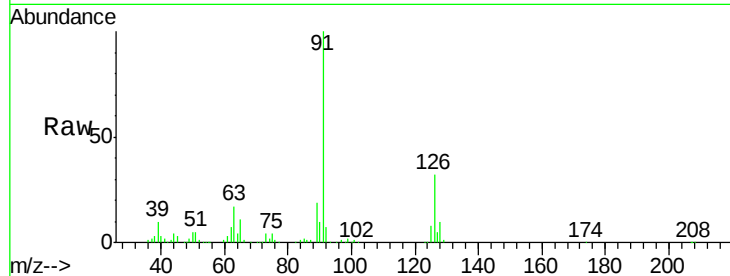
VSTDIC0.5

Tgt Ion: 91 Resp: 273234

Ion Ratio Lower Upper

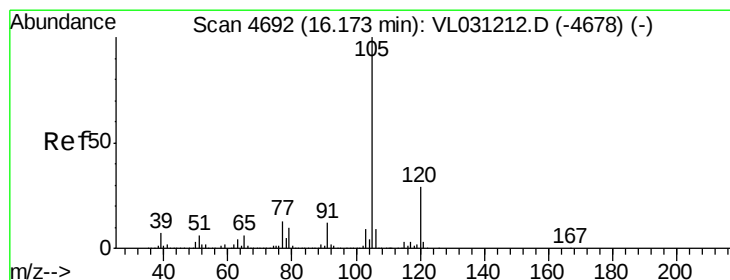
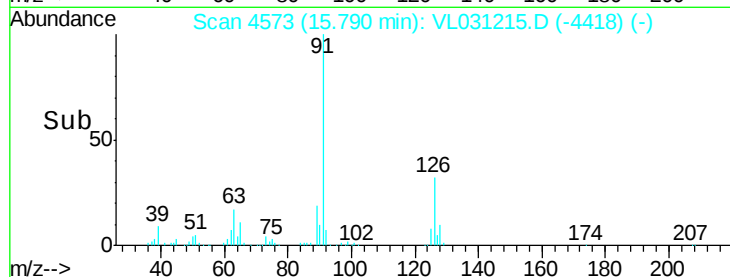
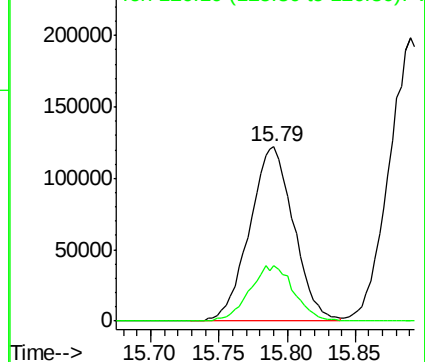
91 100

126 32.2 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: 0.61 ppbv

RT: 16.17 min Scan# 4690

Delta R.T. -0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Tgt Ion: 105 Resp: 310628

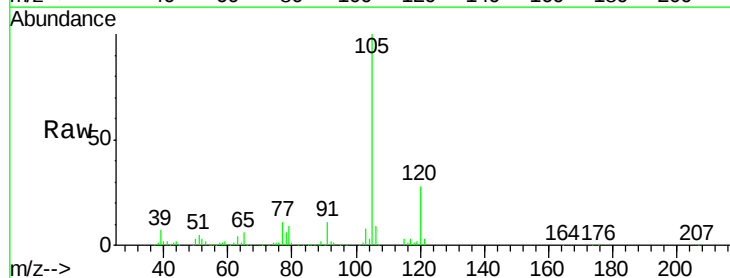
Ion Ratio Lower Upper

105 100

120 30.5 24.2 36.2

91 12.2 9.8 14.8

77 12.7 10.5 15.7

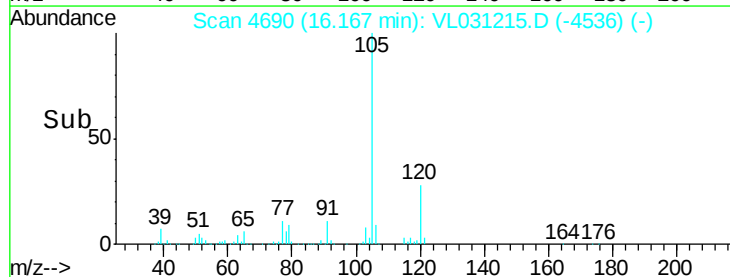
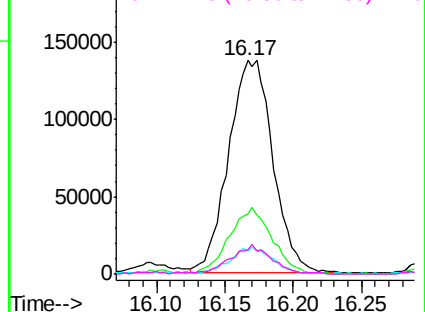


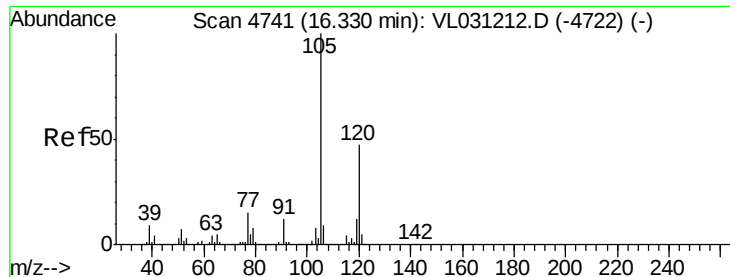
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.59 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

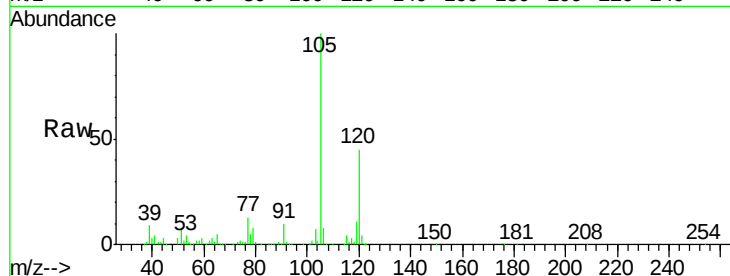
VSTDIC0.5

Tgt Ion:105 Resp: 280523

Ion Ratio Lower Upper

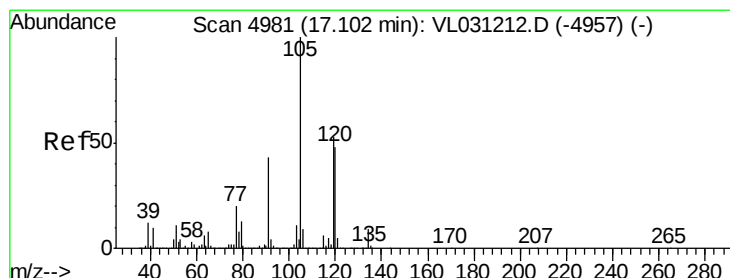
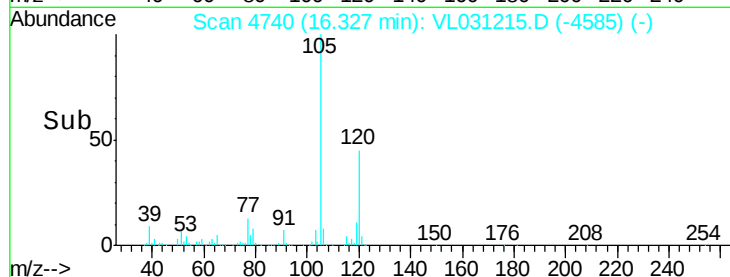
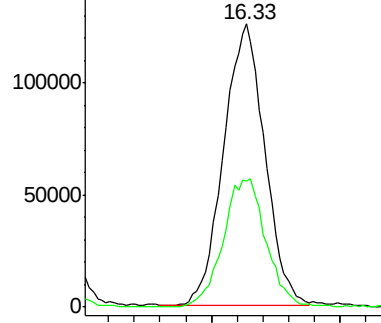
105 100

120 44.8 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: 0.58 ppbv

RT: 17.09 min Scan# 4978

Delta R.T. -0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Tgt Ion:105 Resp: 304415

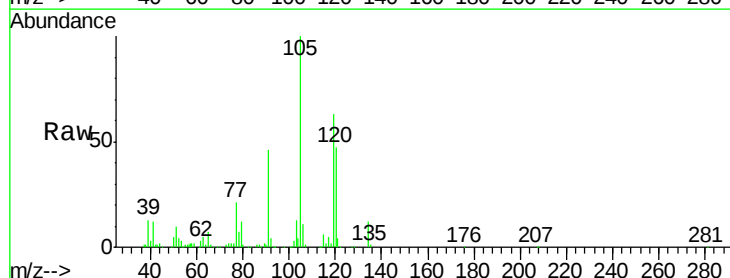
Ion Ratio Lower Upper

105 100

120 45.9 38.6 58.0

91 45.8 34.2 51.4

77 20.6 16.1 24.1

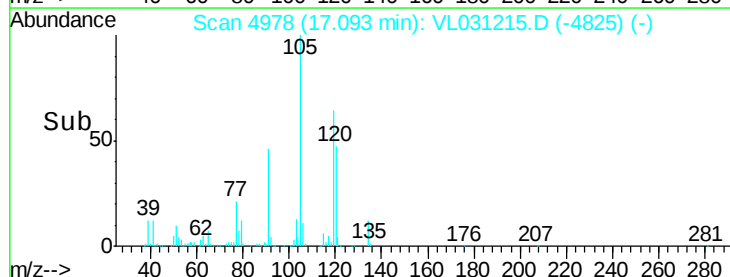
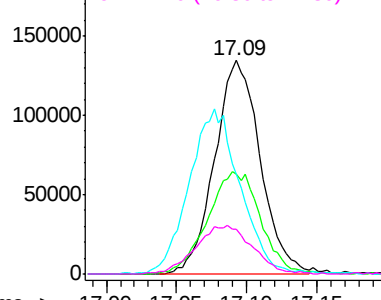


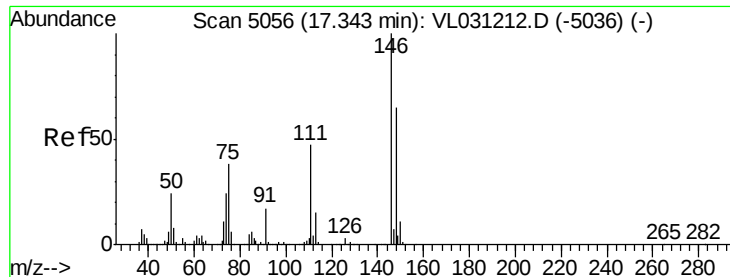
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.55 ppbv

RT: 17.34 min Scan# 5054

Delta R.T. -0.01 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

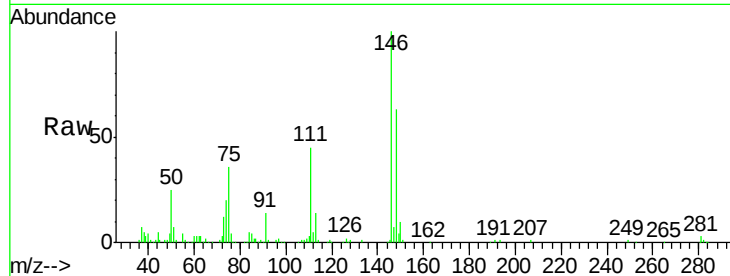
Tgt Ion:146 Resp: 181245

Ion Ratio Lower Upper

146 100

111 47.5 22.7 68.1

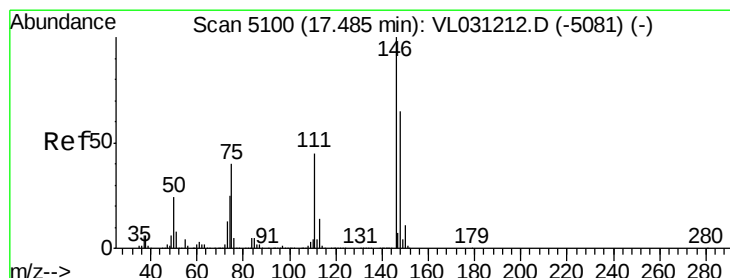
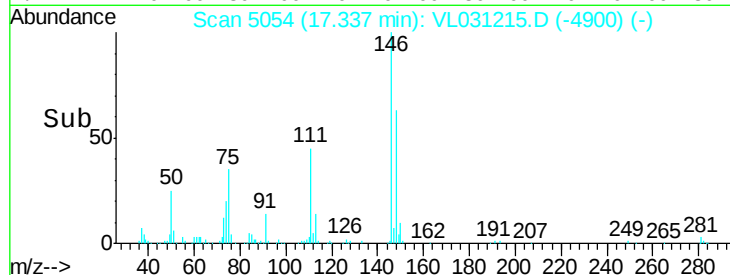
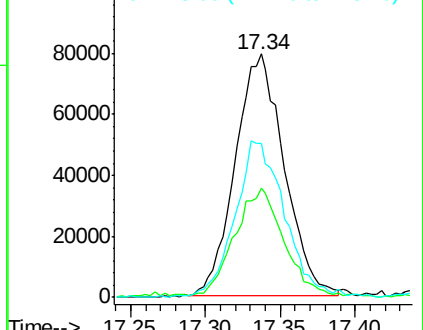
148 66.0 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.56 ppbv

RT: 17.48 min Scan# 5099

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

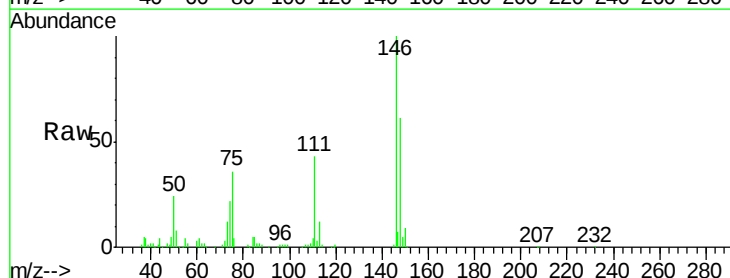
Tgt Ion:146 Resp: 186725

Ion Ratio Lower Upper

146 100

111 44.4 22.1 66.1

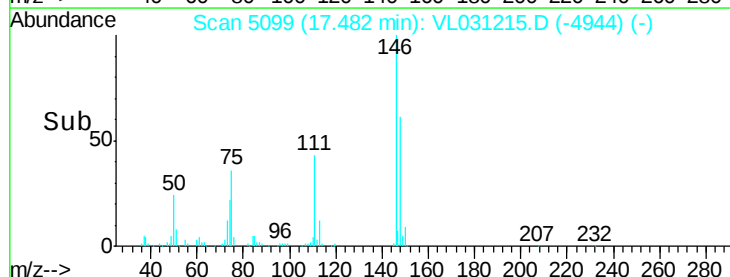
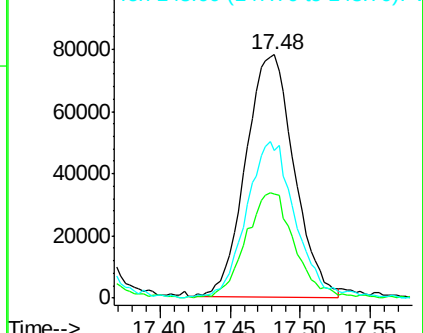
148 65.5 32.0 96.0

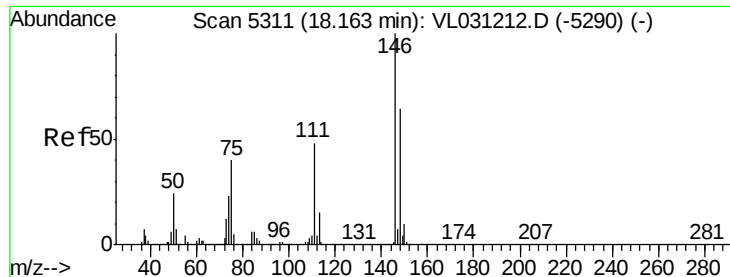


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

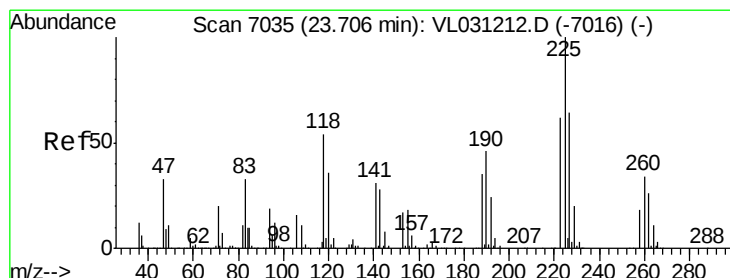
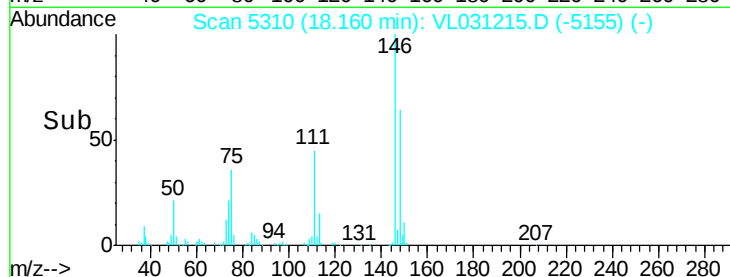
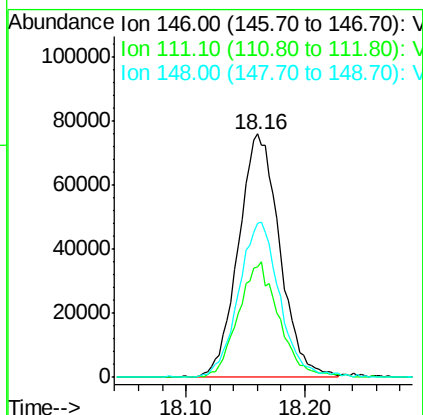
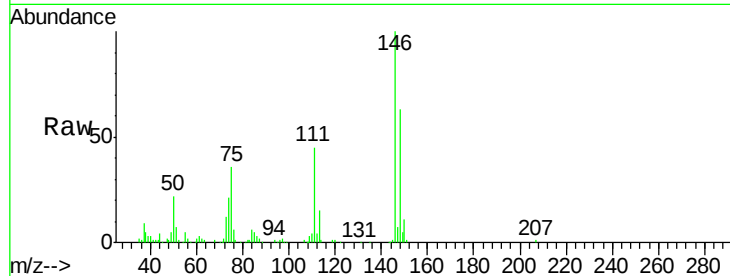




#77
 1,2-Dichlorobenzene
 Concen: 0.56 ppbv
 RT: 18.16 min Scan# 5310
 Delta R.T. -0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

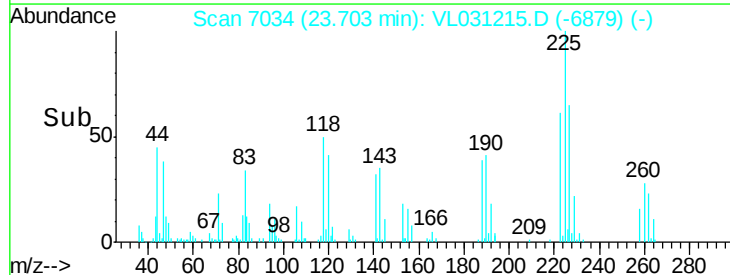
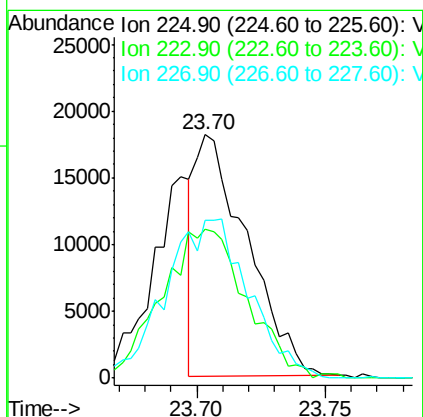
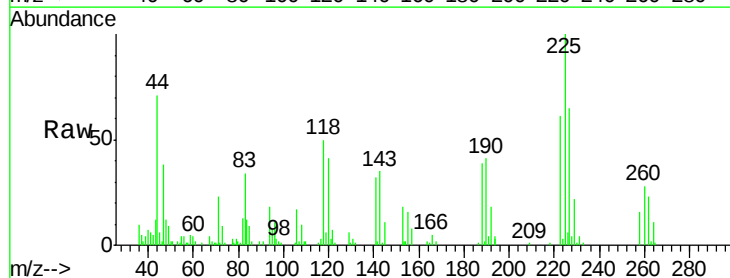
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

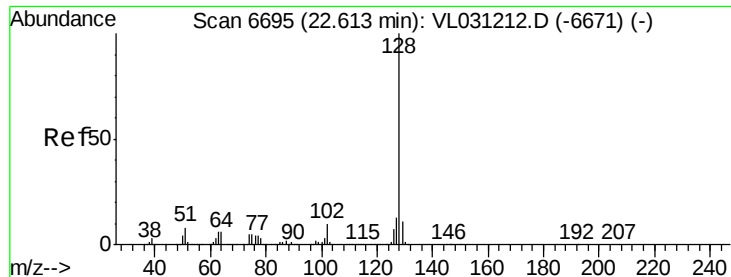
Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	23.3	69.8
148	64.4	31.9	95.7



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.41 ppbv
 RT: 23.70 min Scan# 7034
 Delta R.T. -0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	102.3	50.4	75.6#
227	106.7	51.3	76.9#





#79

Naphthalene

Concen: 0.65 ppbv

RT: 22.61 min Scan# 6694

Delta R.T. -0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

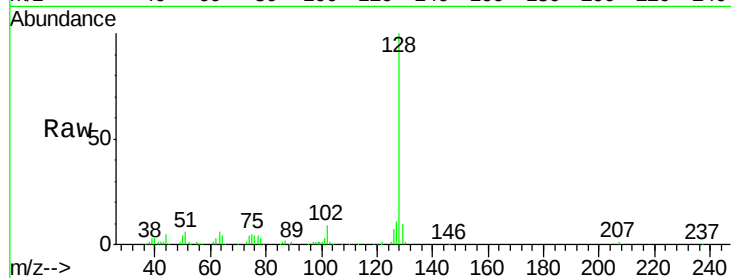
Tgt Ion:128 Resp: 229671

Ion Ratio Lower Upper

128 100

127 11.1 10.2 15.2

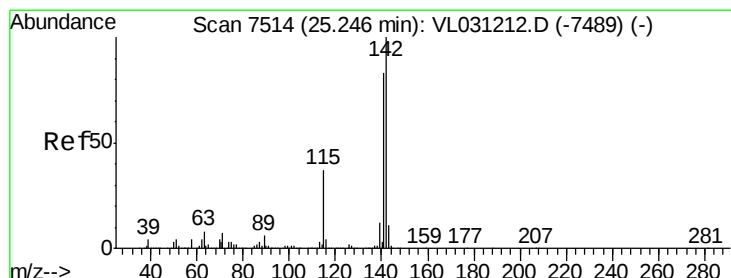
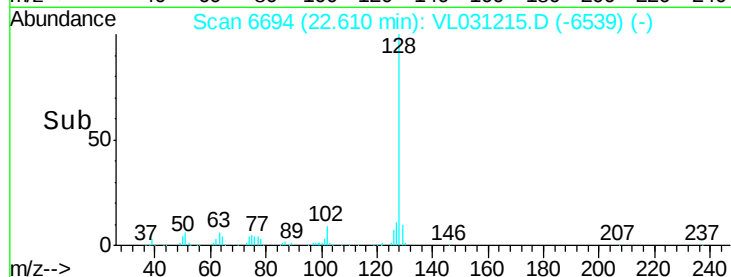
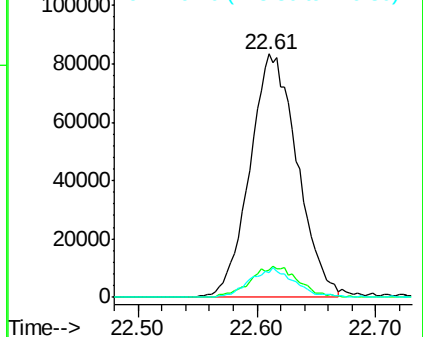
129 10.3 8.9 13.3



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: 0.70 ppbv

RT: 25.25 min Scan# 7514

Delta R.T. 0.00 min

Lab File: VL031215.D

Acq: 14 Dec 2017 00:21

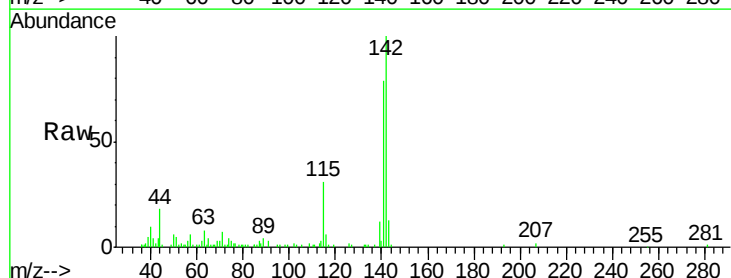
Tgt Ion:142 Resp: 72647

Ion Ratio Lower Upper

142 100

141 80.3 66.8 100.2

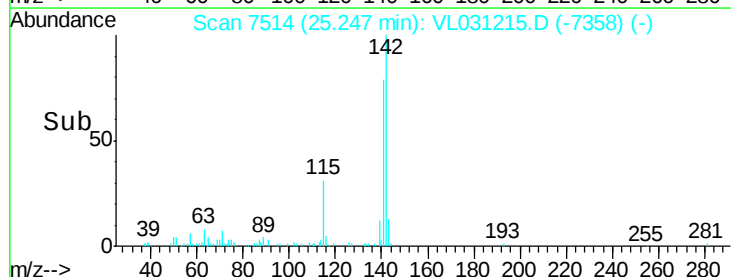
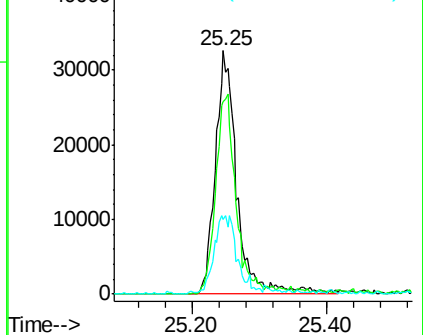
115 36.5 29.7 44.5

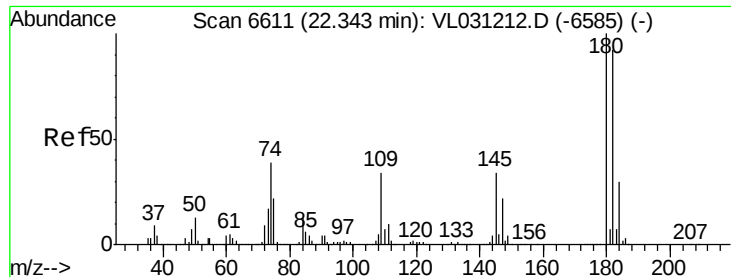


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.60 ppbv
 RT: 22.34 min Scan# 6611
 Delta R.T. 0.00 min
 Lab File: VL031215.D
 Acq: 14 Dec 2017 00:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Resp	Lower	Upper
180	105802		
182	97.5	75.9	113.9
184	32.3	24.2	36.2

