

Data Path : W:\HPCHEM1\MSVOA H\DATA\XH092115\
 Data File : VH057097.D
 Acq On : 21 Sep 2015 18:13
 Operator : SY/FY
 Sample : VH0921MBS01
 Misc : 5.00/10mL/100uL/5mL/MSVOA_H/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleId :
 VH0921MBS01

Manual Integrations
 APPROVED

MMDadoda
 9/22/2015 2:55:04 PM

Quant Time: Sep 22 06:55:08 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:34:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.82	168	924194	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.55	114	1656598	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.71	117	1252923	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.49	152	364873	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.79	65	695216	42.12	ug/l	-0.02
Spiked Amount	50.000	Range	66 - 150	Recovery	=	84.24%
35) Dibromofluoromethane	4.06	113	651183	49.37	ug/l	-0.02
Spiked Amount	50.000	Range	76 - 130	Recovery	=	98.74%
48) Toluene-d8	7.50	98	1721025	45.38	ug/l	-0.02
Spiked Amount	50.000	Range	78 - 121	Recovery	=	90.76%
62) 4-Bromofluorobenzene	11.35	95	579781	45.33	ug/l	0.00
Spiked Amount	50.000	Range	70 - 131	Recovery	=	90.66%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.93	85	173483	15.31	ug/l	88
3) Chloromethane	1.01	50	214582	14.59	ug/l	95
4) Vinyl Chloride	1.08	62	190287	15.65	ug/l	100
5) Bromomethane	1.26	94	111250	17.38	ug/l	88
6) Chloroethane	1.34	64	93542	16.07	ug/l #	85
7) Trichlorofluoromethane	1.39	101	137350	12.08	ug/l	95
8) Tert butyl alcohol	2.52	59	235287	79.40	ug/l #	95
9) Diethyl Ether	1.60	74	109946	19.56	ug/l	78
10) Diisopropyl ether	2.77	45	688098	16.70	ug/l #	95
11) 1,1-Dichloroethene	1.72	96	162664	19.08	ug/l #	73
12) Methyl Iodide	1.85	142	309944m	20.63	ug/l	
13) Acrolein	1.97	56	169827	95.84	ug/l	99
14) 1,1,2-Trichlorotrifluoroet	1.79	101	154186	18.56	ug/l #	92
15) Acrylonitrile	2.89	53	499973	92.52	ug/l	95
16) Allyl Chloride	2.06	41	286086	16.28	ug/l	96
17) Acetone	2.20	43	560202	61.12	ug/l	95
18) Carbon Disulfide	1.76	76	446693	17.77	ug/l	95
19) Methyl Acetate	2.30	43	760862	17.71	ug/l	97
20) Methyl tert-butyl Ether	2.39	73	629357	18.44	ug/l	98
21) Methylene Chloride	2.15	84	195339m	20.94	ug/l	
22) trans-1,2-Dichloroethene	2.27	96	180513	19.26	ug/l	93
23) Vinyl Acetate	3.15	43	1713793	87.89	ug/l #	95
24) 1,1-Dichloroethane	2.83	63	333479	16.44	ug/l	98
25) 2-Butanone	4.29	43	1295720	84.52	ug/l	92
26) 2,2-Dichloropropane	3.55	77	220691	17.33	ug/l	98
27) cis-1,2-Dichloroethene	3.43	96	259989	19.86	ug/l	90
28) Bromochloromethane	3.66	128	100164	22.91	ug/l	84
29) Chloroform	3.81	83	411963	17.18	ug/l	96
30) Cyclohexane	3.64	56	251190	15.45	ug/l #	91
31) Tetrahydrofuran	4.03	42	730485	84.89	ug/l #	86
32) 1,1,1-Trichloroethane	4.04	97	286643	16.60	ug/l	96
36) 1,1-Dichloropropene	4.23	75	307398	16.89	ug/l	89
37) Ethyl acetate	4.06	43	589053	17.24	ug/l #	95
38) Carbon Tetrachloride	3.94	117	233506	16.48	ug/l	96

Data Path : W:\HPCHEM1\MSVOA H\DATA\VH092115\
 Data File : VH057097.D
 Acq On : 21 Sep 2015 18:13
 Operator : SY/FY
 Sample : VH0921MBSD01
 Misc : 5.00/10mL/100uL/5mL/MSVOA_H/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleID :
 VH0921MBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/22/2015 2:55:04 PM

Quant Time: Sep 22 06:55:08 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:34:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	4.58	78	820004	18.92	ug/l	98
40) Methacrylonitrile	4.70	41	262865	17.38	ug/l	94
41) 1,2-Dichloroethane	4.89	62	313079	16.37	ug/l #	91
42) Isopropyl Acetate	5.43	43	778485	17.45	ug/l #	92
43) Trichloroethene	5.45	130	220151	19.99	ug/l	93
44) Methylcyclohexane	5.41	83	187167	17.84	ug/l	90
45) 1,2-Dichloropropane	6.18	63	241019	17.54	ug/l	92
46) Dibromomethane	6.04	93	165244	18.49	ug/l	89
47) Bromodichloromethane	6.33	83	325785	17.80	ug/l	95
49) 4-Methyl-2-Pentanone	8.20	43	2363105	87.44	ug/l	99
50) Toluene	7.57	92	512426	18.46	ug/l	97
51) t-1,3-Dichloropropene	8.22	75	365596	17.42	ug/l	99
52) Methyl Methacrylate	6.67	69	265327	19.51	ug/l	84
53) 1,4-Dioxane	6.66	88	57884	362.92	ug/l #	86
54) cis-1,3-Dichloropropene	7.25	75	399369	17.92	ug/l	92
55) 1,1,2-Trichloroethane	8.43	97	218620	18.56	ug/l	96
56) Ethyl Methacrylate	8.57	69	424217	18.23	ug/l	90
57) 1,3-Dichloropropane	8.79	76	449053	18.74	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.25	63	1098944	95.52	ug/l #	90
59) 2-Hexanone	9.43	43	1768737	83.76	ug/l	98
60) Dibromochloromethane	8.65	129	246506	18.46	ug/l	97
61) 1,2-Dibromoethane	8.92	107	267322	19.72	ug/l	99
64) Tetrachloroethene	8.10	164	147362	20.76	ug/l	97
65) Chlorobenzene	9.73	112	514871	18.89	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.86	131	190214	20.22	ug/l	96
67) Ethyl Benzene	9.83	106	243700	18.68	ug/l	99
68) m/p-Xylenes	10.06	106	602921	37.98	ug/l	94
69) o-Xylene	10.65	106	288165	18.91	ug/l	100
70) Styrene	10.73	104	517018	19.42	ug/l	95
71) Bromoform	10.70	173	158179	19.65	ug/l	96
73) Isopropylbenzene	11.06	105	605524	18.17	ug/l	95
74) n-Amyl Acetate	11.32	43	612639	17.30	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.63	83	347462	19.89	ug/l	99
76) 1,2,3-Trichloropropane	11.73	75	259182	18.91	ug/l	97
77) Bromobenzene	11.43	156	190712	20.11	ug/l	86
78) n-propylbenzene	11.54	91	633878	17.79	ug/l	98
79) 2-Chlorotoluene	11.65	91	376236	17.51	ug/l	98
80) 1,3,5-Trimethylbenzene	11.77	105	394917	18.14	ug/l	96
81) trans-1,4-Dichloro-2-Buten	11.81	75	189112	18.93	ug/l	93
82) 4-Chlorotoluene	11.83	91	479248	18.46	ug/l	97
83) tert-Butylbenzene	12.06	119	384432	18.70	ug/l	93
84) 1,2,4-Trimethylbenzene	12.14	105	404791	18.01	ug/l	98
85) sec-Butylbenzene	12.24	105	395377	17.98	ug/l	98
86) p-Isopropyltoluene	12.39	119	320485	19.20	ug/l	96
87) 1,3-Dichlorobenzene	12.41	146	214864	18.99	ug/l	97
88) 1,4-Dichlorobenzene	12.50	146	232114	19.81	ug/l	96
89) n-Butylbenzene	12.78	91	238608	17.88	ug/l	96
90) Hexachloroethane	12.84	117	64036	18.12	ug/l	82
91) 1,2-Dichlorobenzene	12.88	146	193825	19.01	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.57	75	32721	16.70	ug/l	82

Data Path : W:\HPCHEM1\MSVOA H\DATA\VH092115\
Data File : VH057097.D
Acq On : 21 Sep 2015 18:13
Operator : SY/FY
Sample : VH0921MBSD01
Misc : 5.00/10mL/100uL/5mL/MSVOA_H/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

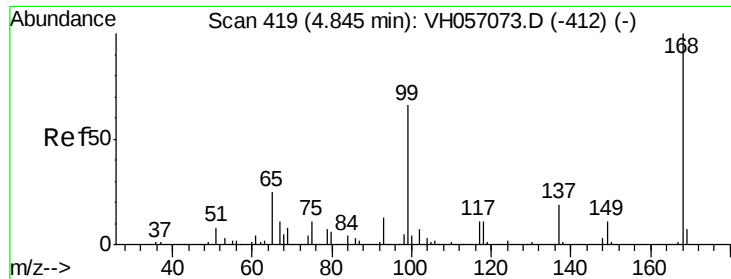
Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM

Quant Time: Sep 22 06:55:08 2015
Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:34:01 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.12	180	43263	21.26	ug/l	97
94) Hexachlorobutadiene	14.12	225	21568	20.45	ug/l	90
95) Naphthalene	14.37	128	192458	23.60	ug/l	99
96) 1,2,3-Trichlorobenzene	14.52	180	31767	23.79	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.82 min Scan# 417

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion:168 Resp: 924194

Ion Ratio Lower Upper

168 100

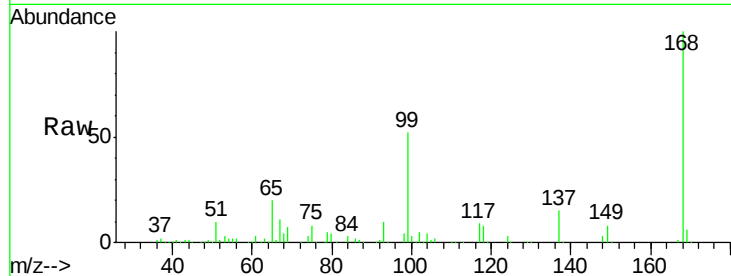
99 52.2 55.8 83.6#

Manual Integrations

APPROVED

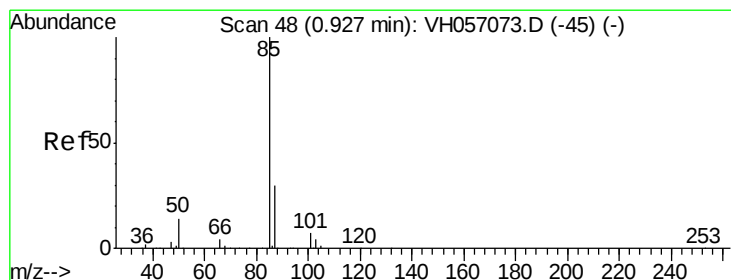
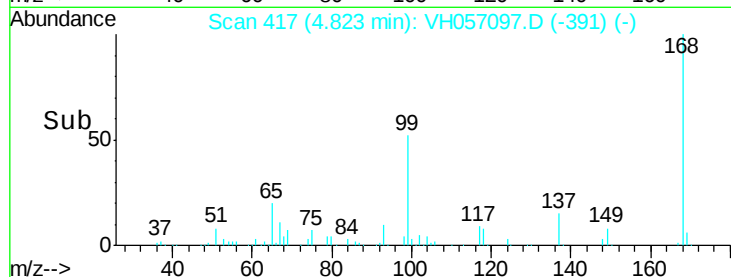
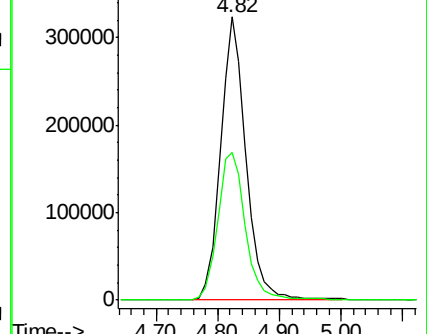
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VH0



#2

Dichlorodifluoromethane

Concen: 15.31 ug/l

RT: 0.93 min Scan# 48

Delta R.T. 0.00 min

Lab File: VH057097.D

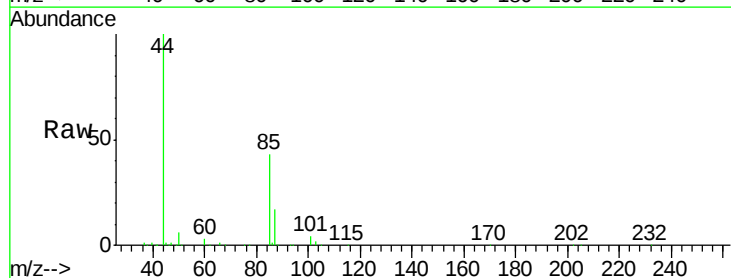
Acq: 21 Sep 2015 18:13

Tgt Ion: 85 Resp: 173483

Ion Ratio Lower Upper

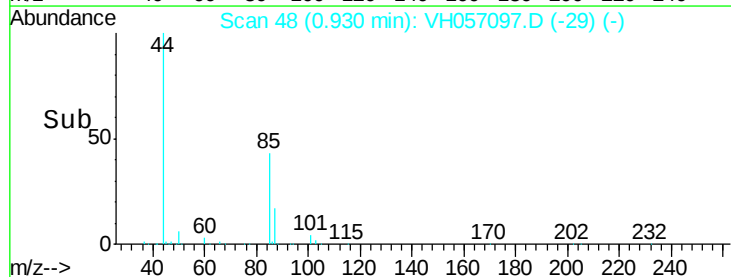
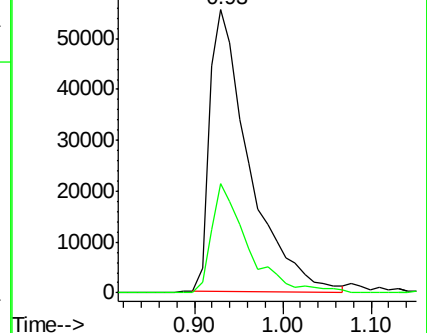
85 100

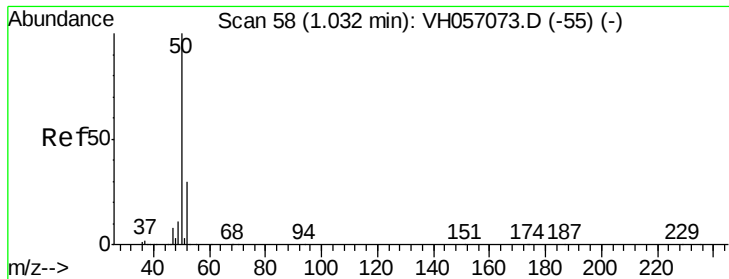
87 38.5 16.0 47.9



Abundance Ion 85.00 (84.70 to 85.70): VH0

Ion 87.00 (86.70 to 87.70): VH0





#3

Chloromethane

Concen: 14.59 ug/l

RT: 1.01 min Scan# 56

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 50 Resp: 214582

Ion Ratio Lower Upper

50 100

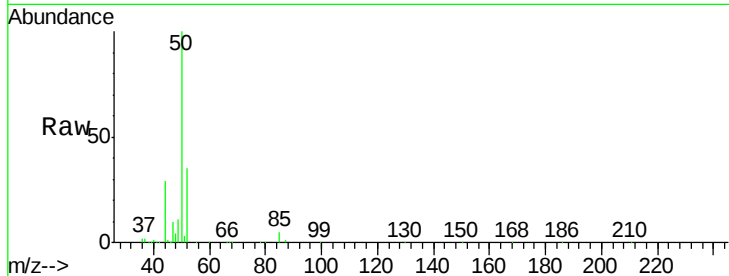
52 34.9 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 50.00 (49.70 to 50.70): VH0

Ion 52.00 (51.70 to 52.70): VH0

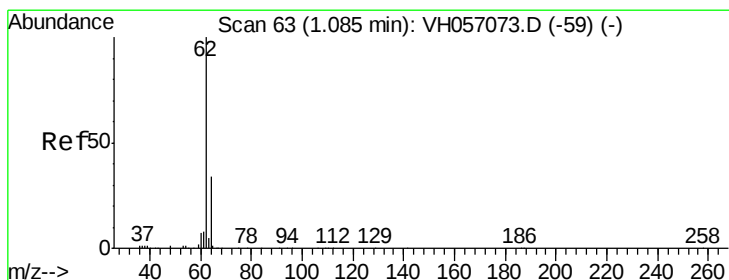
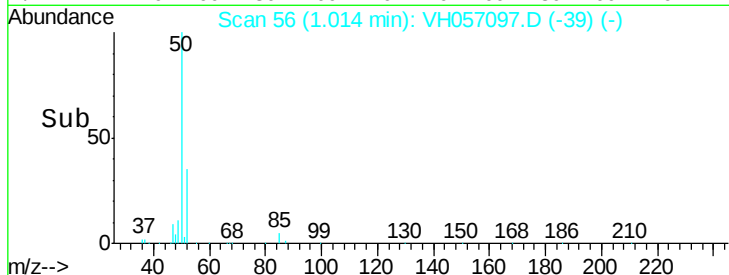
1.01

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 15.65 ug/l

RT: 1.08 min Scan# 62

Delta R.T. -0.01 min

Lab File: VH057097.D

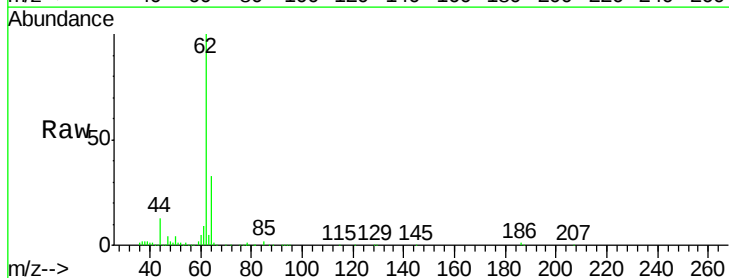
Acq: 21 Sep 2015 18:13

Tgt Ion: 62 Resp: 190287

Ion Ratio Lower Upper

62 100

64 33.0 26.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 64.00 (63.70 to 64.70): VH0

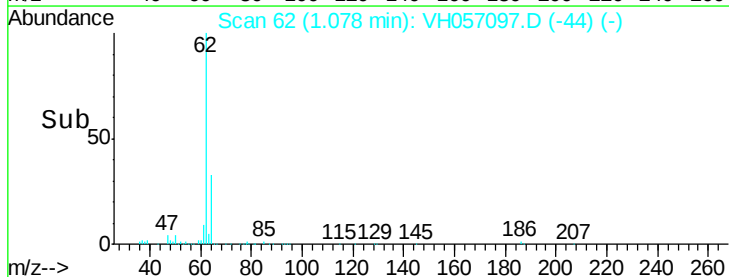
1.08

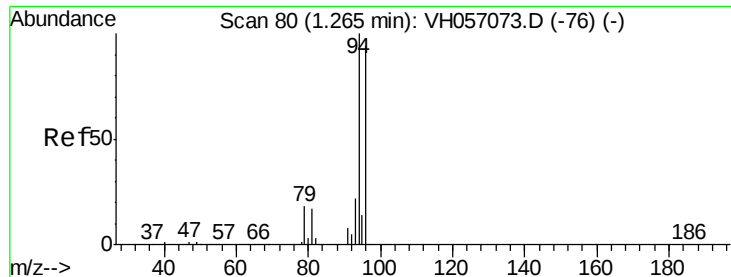
100000

50000

0

Time-->





#5

Bromomethane

Concen: 17.38 ug/l

RT: 1.26 min Scan# 79

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 94 Resp: 111250

Ion Ratio Lower Upper

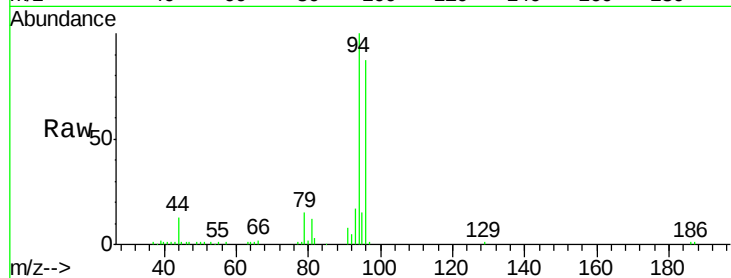
94 100

96 86.6 78.5 117.7

Manual Integrations
APPROVED

MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 94.00 (93.70 to 94.70): VH0

Ion 96.00 (95.70 to 96.70): VH0

80000

60000

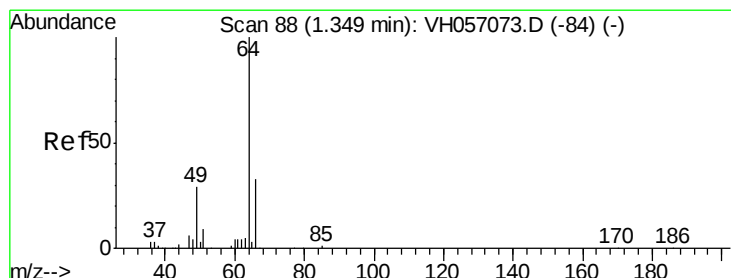
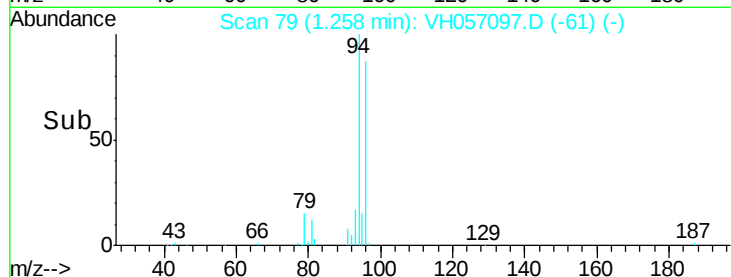
40000

20000

0

1.20 1.25 1.30 1.35

Time-->



#6

Chloroethane

Concen: 16.07 ug/l

RT: 1.34 min Scan# 87

Delta R.T. -0.01 min

Lab File: VH057097.D

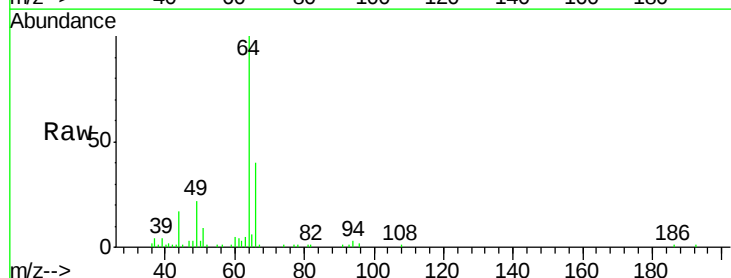
Acq: 21 Sep 2015 18:13

Tgt Ion: 64 Resp: 93542

Ion Ratio Lower Upper

64 100

66 39.8 25.2 37.8#



Abundance Ion 64.00 (63.70 to 64.70): VH0

Ion 66.00 (65.70 to 66.70): VH0

50000

40000

30000

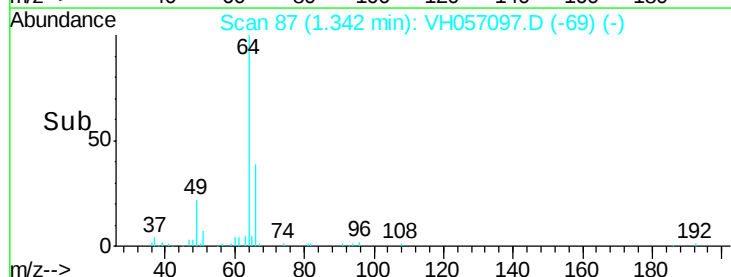
20000

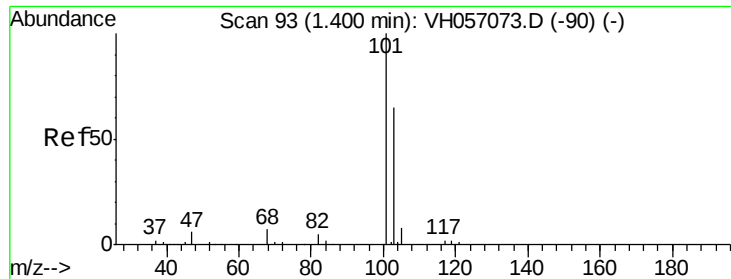
10000

0

1.30 1.40 1.50

Time-->





#7

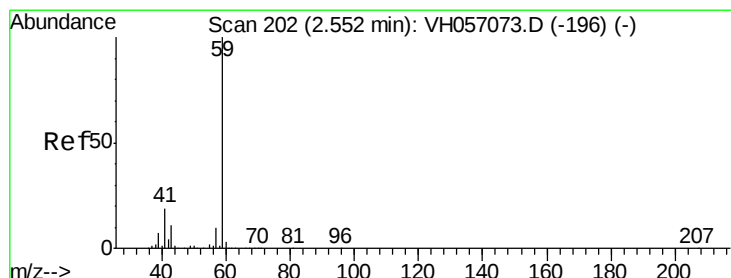
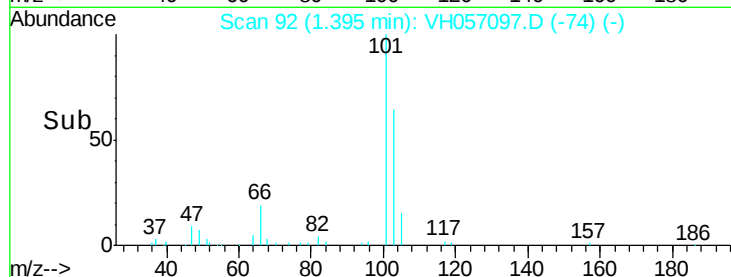
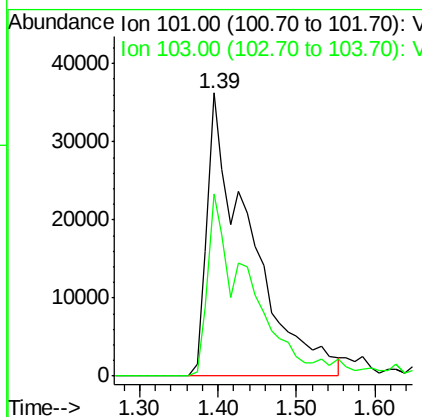
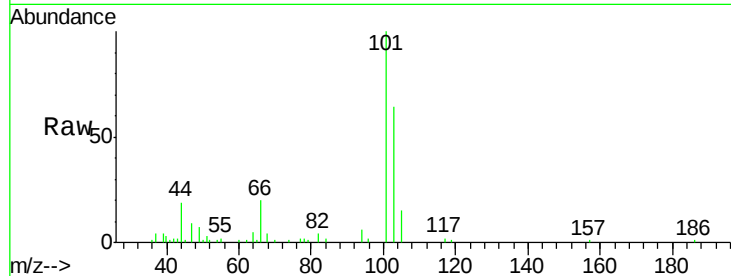
Trichlorofluoromethane
Concen: 12.08 ug/l
RT: 1.39 min Scan# 92
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	137350		
103	64.3	54.9	82.3	

Manual Integrations
APPROVED

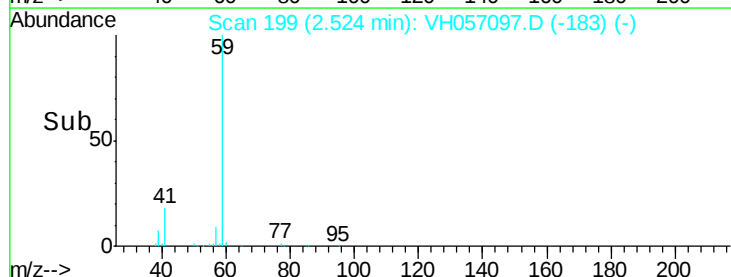
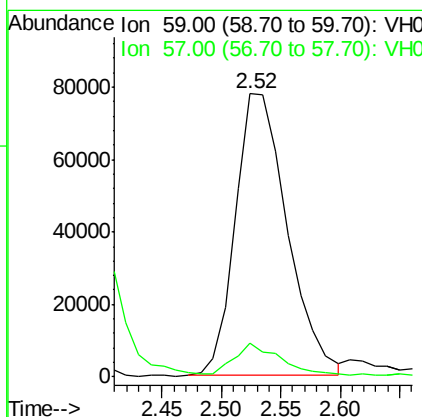
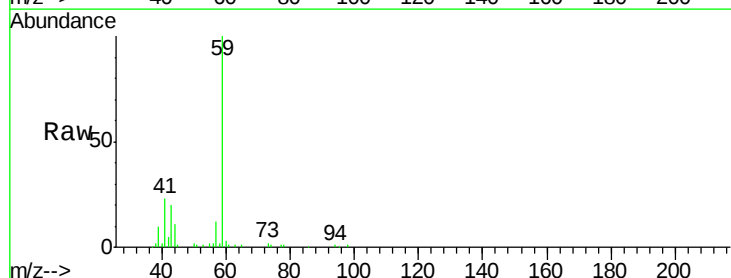
MMDadoda
9/22/2015 2:55:04 PM

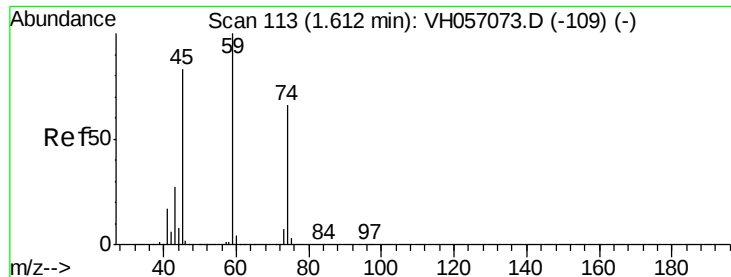


#8

Tert butyl alcohol
Concen: 79.40 ug/l
RT: 2.52 min Scan# 199
Delta R.T. -0.03 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
59	100	235287		
57	11.9	9.0	11.0	





#9

Diethyl Ether

Concen: 19.56 ug/l

RT: 1.60 min Scan# 111

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 74 Resp: 109946

Ion Ratio Lower Upper

74 100

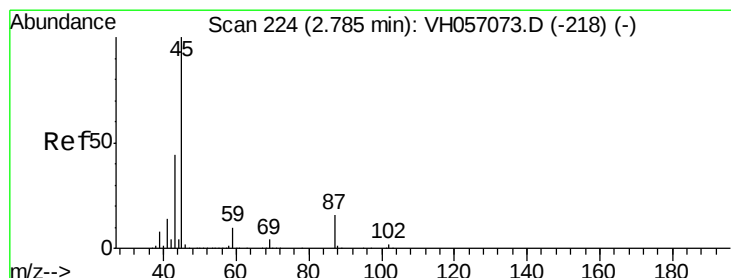
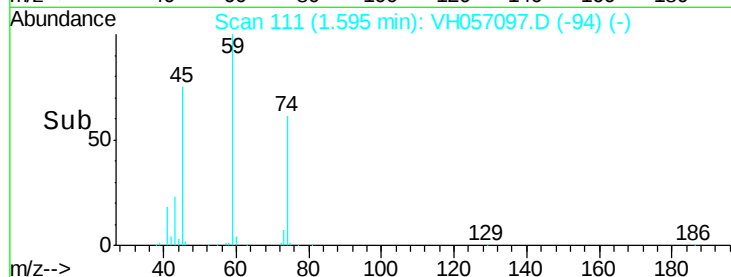
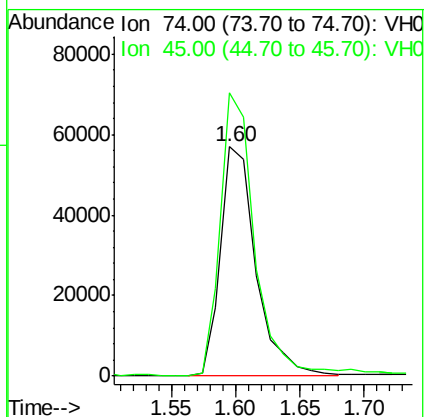
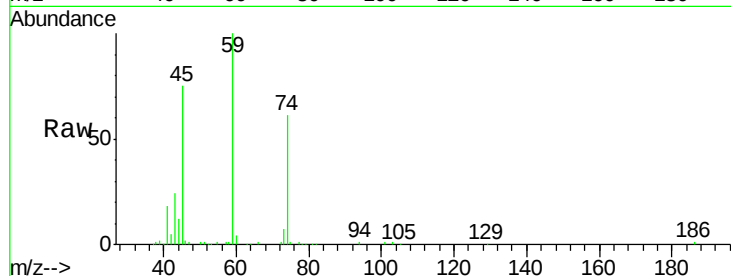
45 123.6 0.0 304.4

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#10

Diisopropyl ether

Concen: 16.70 ug/l

RT: 2.77 min Scan# 222

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tgt Ion: 45 Resp: 688098

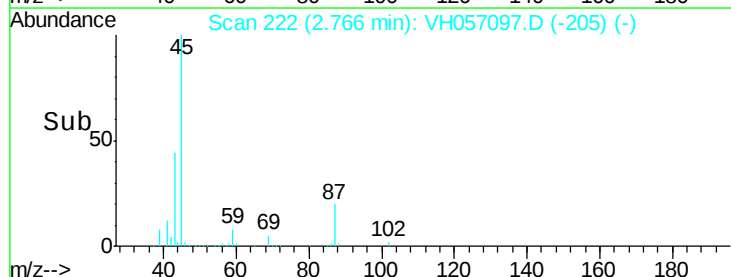
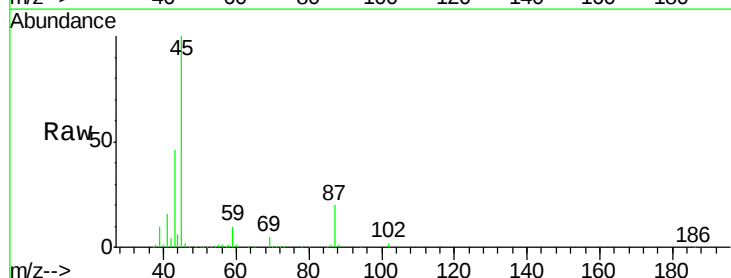
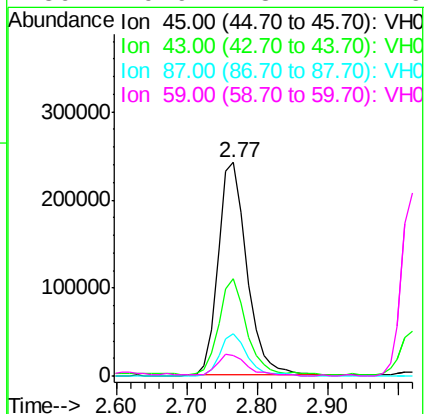
Ion Ratio Lower Upper

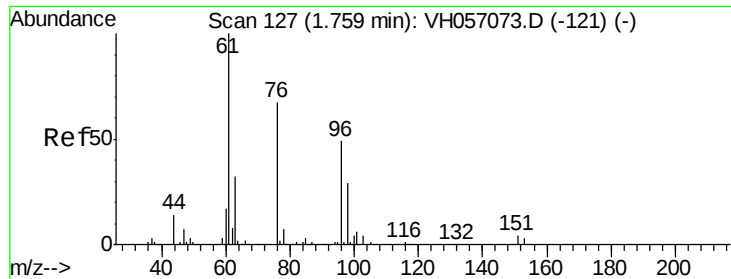
45 100

43 45.7 34.6 52.0

87 19.8 12.6 19.0#

59 9.9 8.4 12.6





#11

1,1-Dichloroethene

Concen: 19.08 ug/l

RT: 1.72 min Scan# 123

Delta R.T. -0.04 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

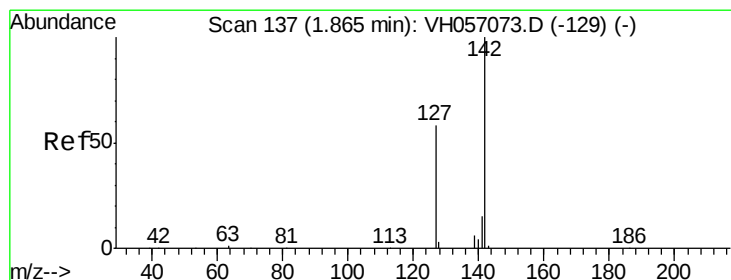
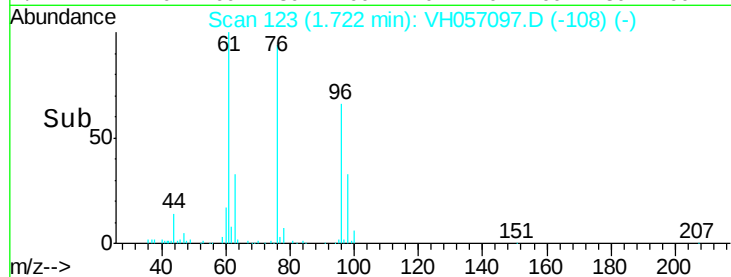
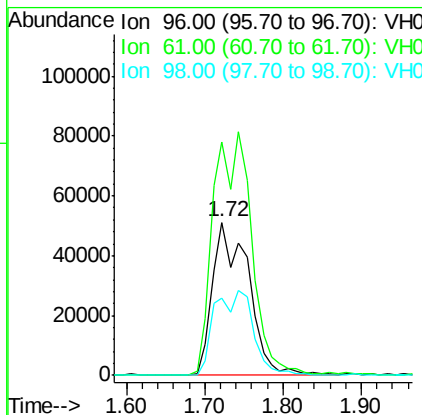
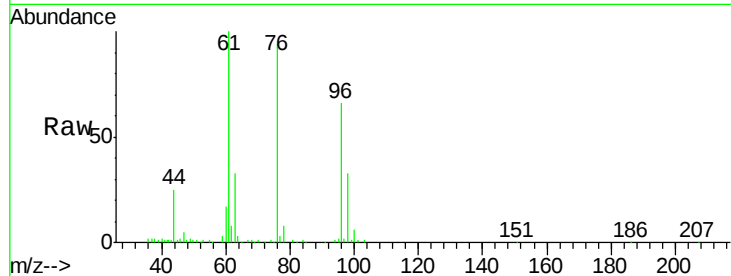
ClientSampleId :

VH0921MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.3	158.4	237.6#
98	50.8	50.6	75.8

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



#12

Methyl Iodide

Concen: 20.63 ug/l m

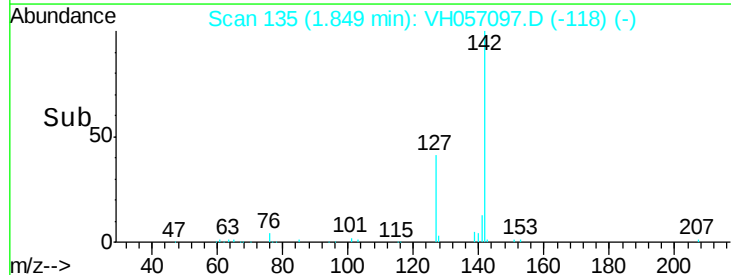
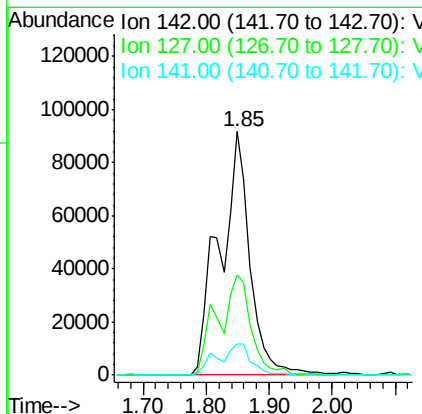
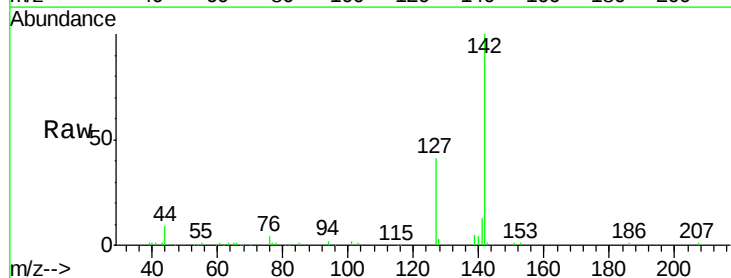
RT: 1.85 min Scan# 135

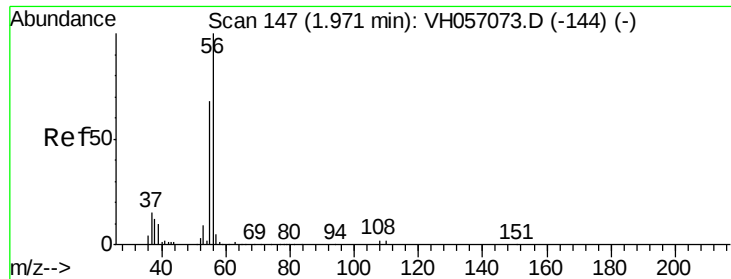
Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Lower	Upper
142	100		
127	41.3	30.0	90.1
141	12.8	7.1	21.4





#13

Acrolein

Concen: 95.84 ug/l

RT: 1.97 min Scan# 146

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 56 Resp: 169827

Ion Ratio Lower Upper

56 100

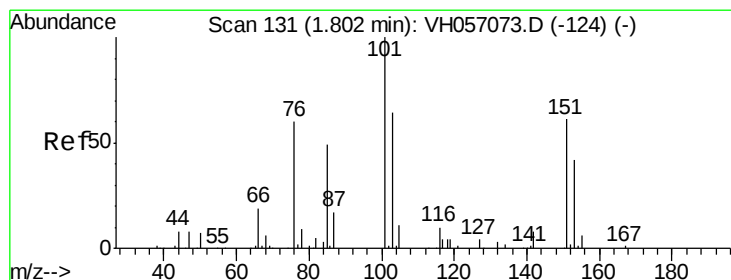
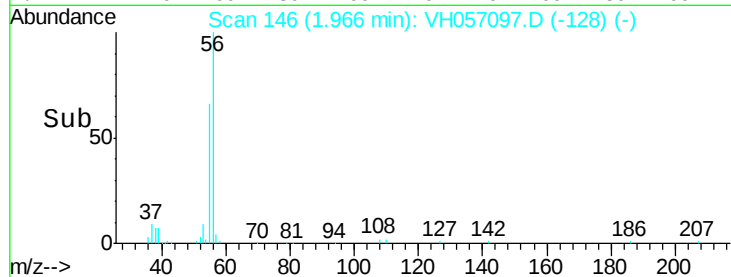
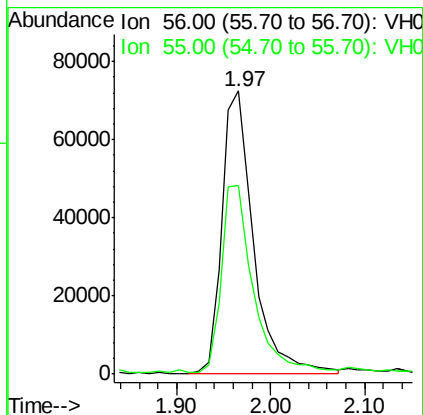
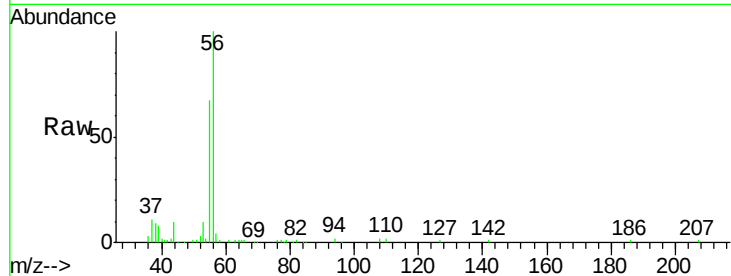
55 66.7 52.9 79.3

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#14

1,1,2-Trichlorotrifluoroethane

Concen: 18.56 ug/l

RT: 1.79 min Scan# 129

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

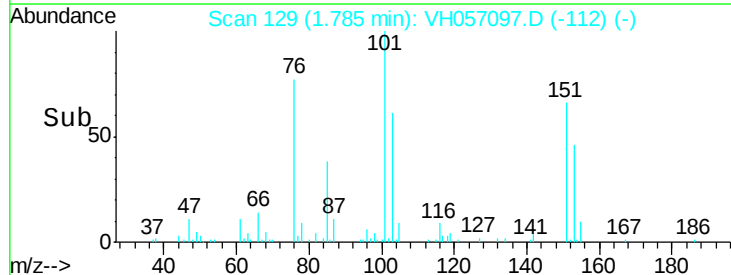
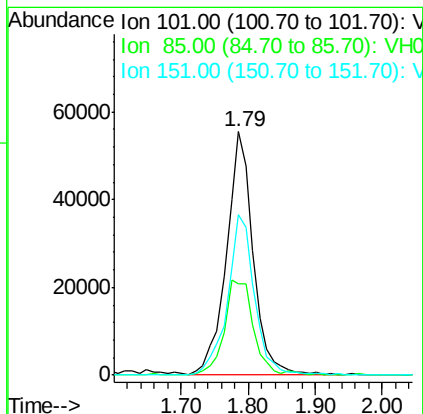
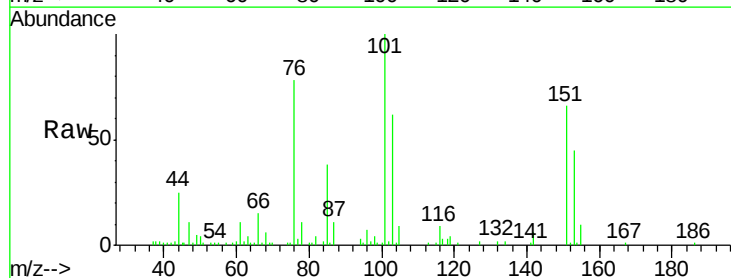
Tgt Ion: 101 Resp: 154186

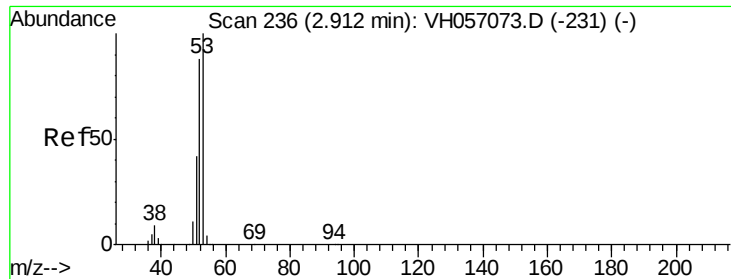
Ion Ratio Lower Upper

101 100

85 37.5 37.9 56.9#

151 66.0 50.6 76.0





#15

Acrylonitrile

Concen: 92.52 ug/l

RT: 2.89 min Scan# 234

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

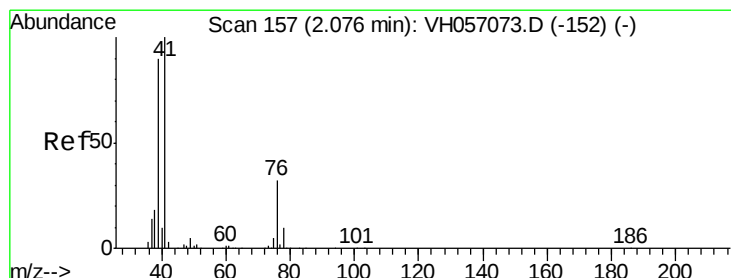
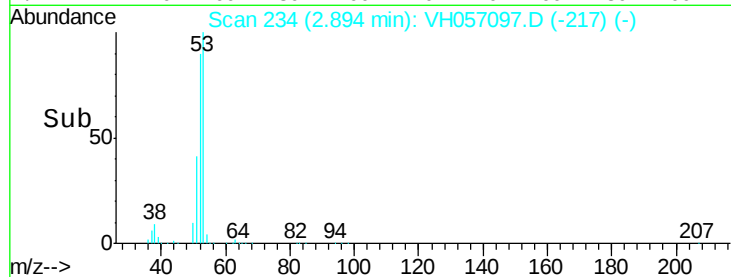
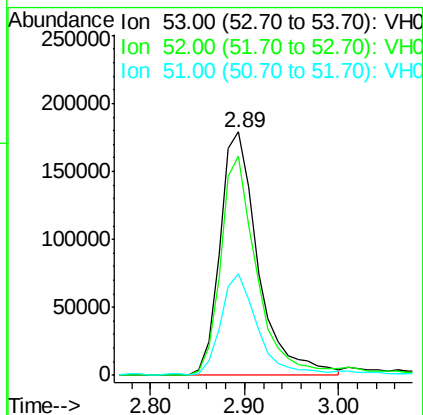
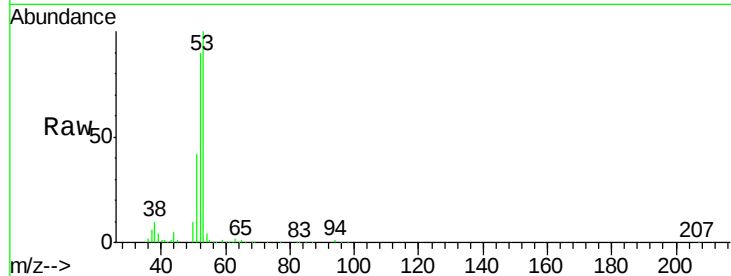
ClientSampleId :

VH0921MBSD01

Tot Ion:	53	Resp:	499973
Ion Ratio	Lower	Upper	
53	100		
52	90.2	67.6	101.4
51	41.7	31.8	47.6

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



#16

Allyl Chloride

Concen: 16.28 ug/l

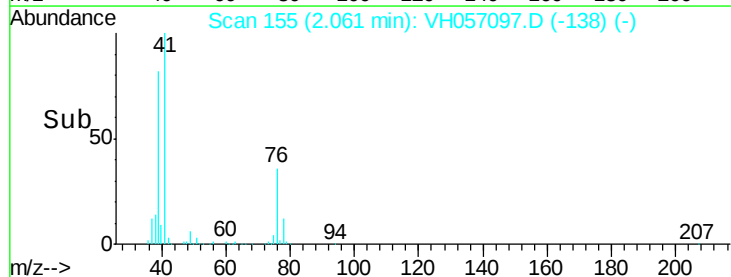
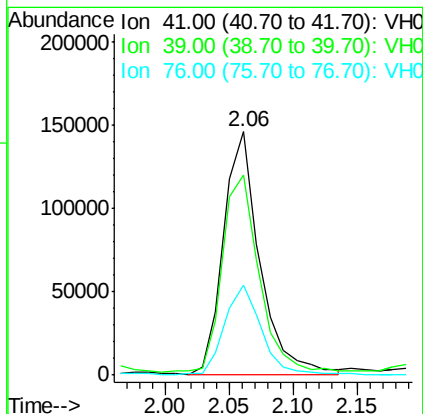
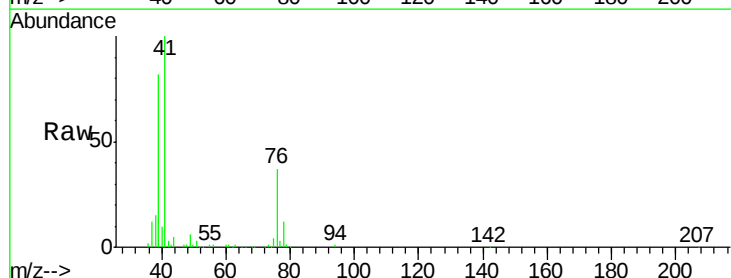
RT: 2.06 min Scan# 155

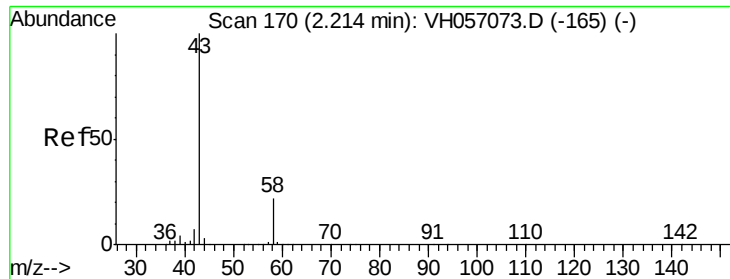
Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tgt Ion:	41	Resp:	286086
Ion Ratio	Lower	Upper	
41	100		
39	82.1	41.0	123.2
76	37.1	14.3	42.9





#17

Acetone

Concen: 61.12 ug/l

RT: 2.20 min Scan# 168

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 43 Resp: 560202

Ion Ratio Lower Upper

43 100

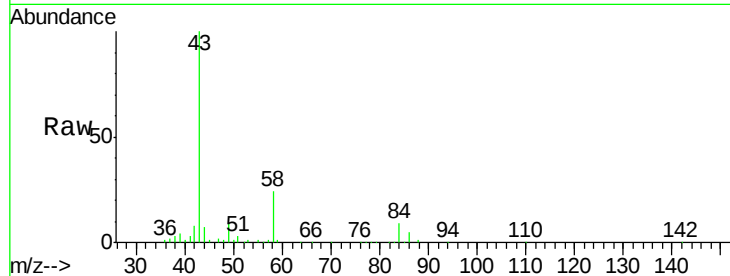
58 24.5 17.7 26.5

Manual Integrations

APPROVED

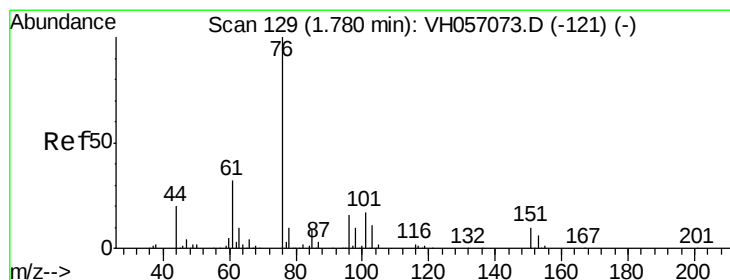
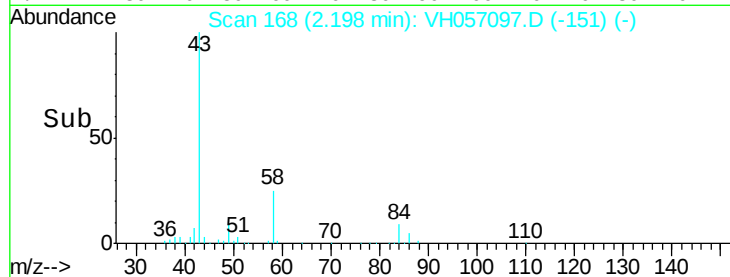
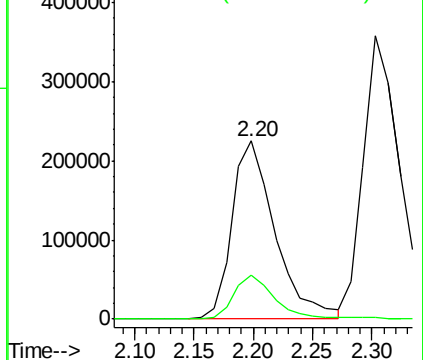
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 58.00 (57.70 to 58.70): VH0



#18

Carbon Disulfide

Concen: 17.77 ug/l

RT: 1.76 min Scan# 127

Delta R.T. -0.02 min

Lab File: VH057097.D

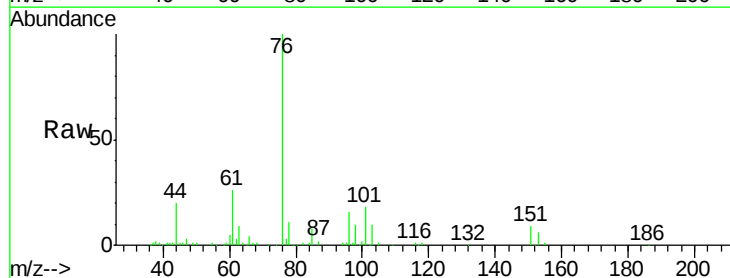
Acq: 21 Sep 2015 18:13

Tgt Ion: 76 Resp: 446693

Ion Ratio Lower Upper

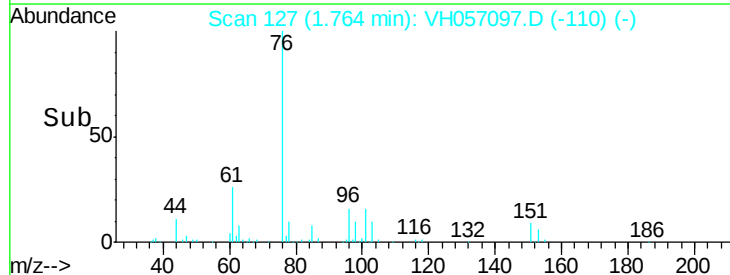
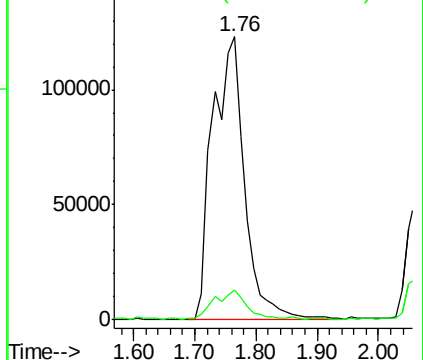
76 100

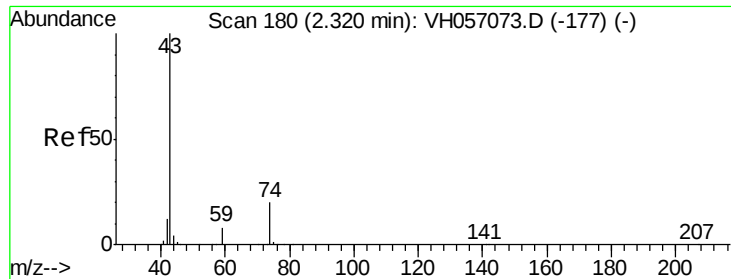
78 10.6 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VH0

Ion 78.00 (77.70 to 78.70): VH0





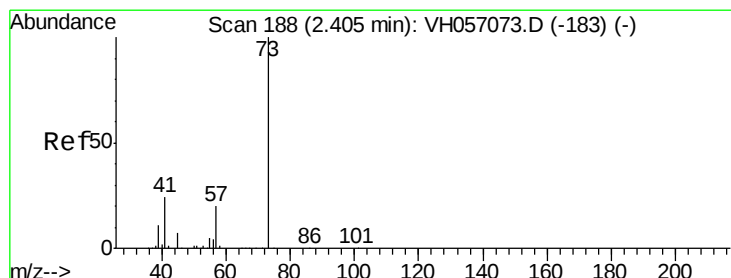
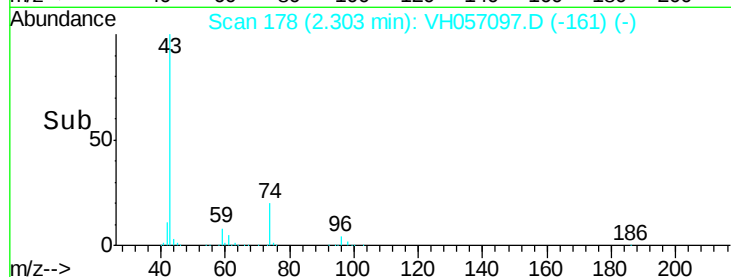
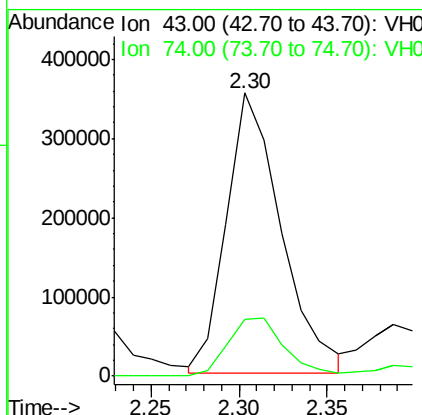
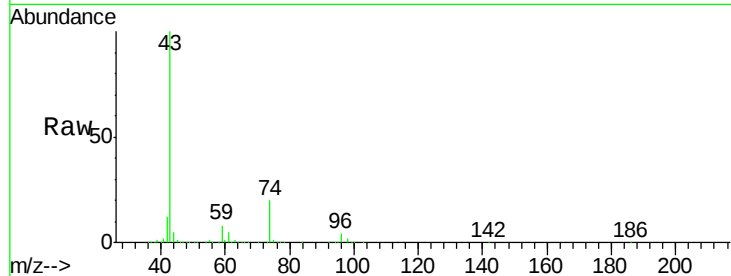
#19
Methyl Acetate
Concen: 17.71 ug/l
RT: 2.30 min Scan# 178
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
74	20.2	13.3	24.7

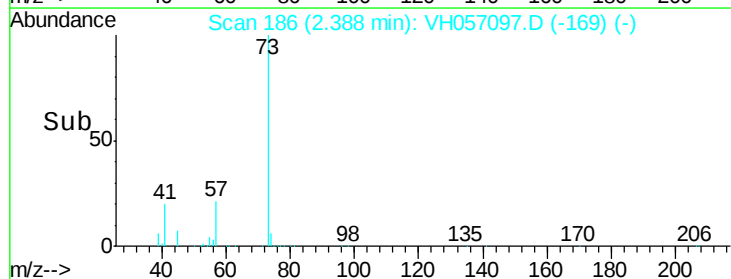
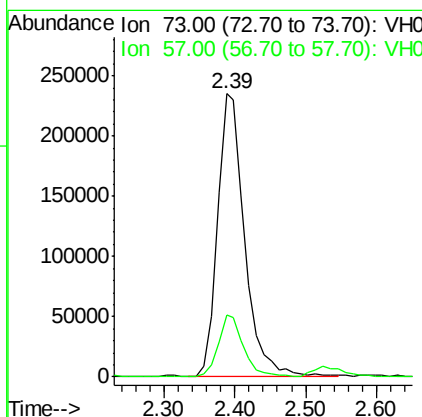
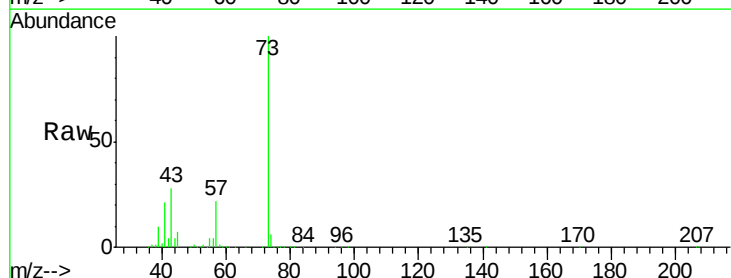
Manual Integrations
APPROVED

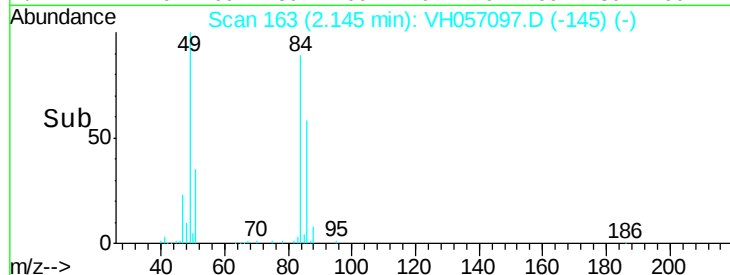
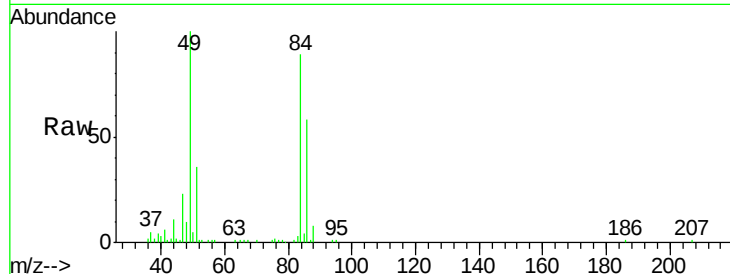
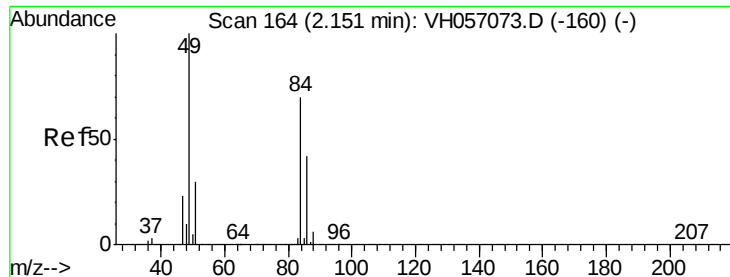
MMDadoda
9/22/2015 2:55:04 PM



#20
Methyl tert-butyl Ether
Concen: 18.44 ug/l
RT: 2.39 min Scan# 186
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.7	18.0	27.0





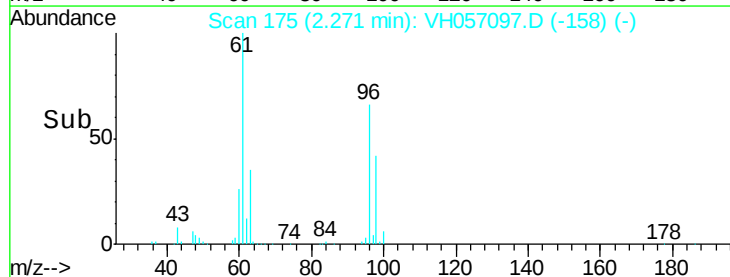
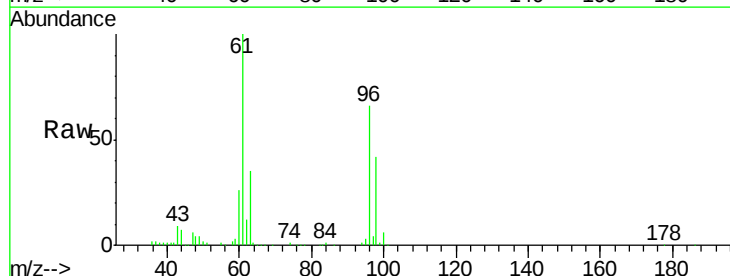
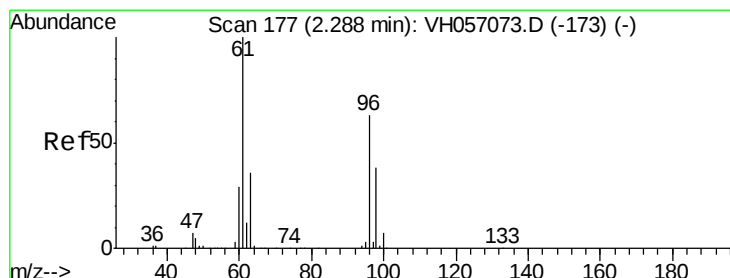
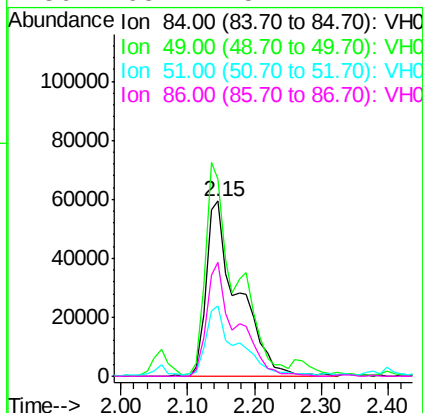
#21
Methvlene Chloride
Concen: 20.94 ug/l m
RT: 2.15 min Scan# 163
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tot Ion	Ratio	Lower	Upper
84	100		
49	112.4	132.8	199.2#
51	40.3	39.5	59.3
86	65.1	51.4	77.2

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

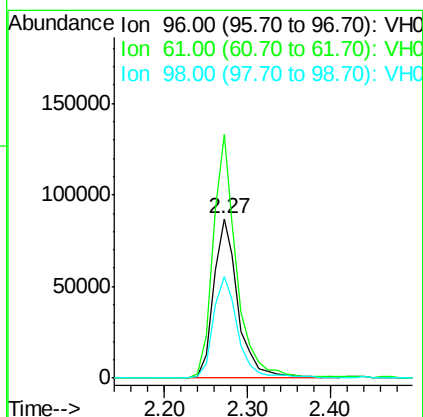
Manual Integrations
APPROVED

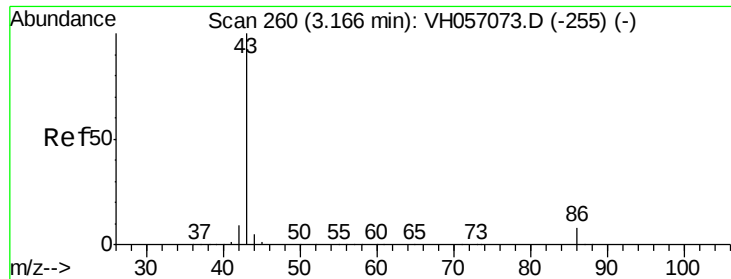
MMDadoda
9/22/2015 2:55:04 PM



#22
trans-1,2-Dichloroethene
Concen: 19.26 ug/l
RT: 2.27 min Scan# 175
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.6	131.7	197.5
98	63.4	49.5	74.3





#23

Vinyl Acetate

Concen: 87.89 ug/l

RT: 3.15 min Scan# 258

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleID :

VH0921MBSD01

Tot Ion: 43 Resp: 1713793

Ion Ratio Lower Upper

43 100

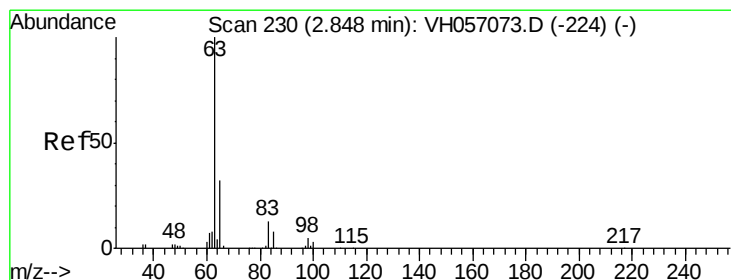
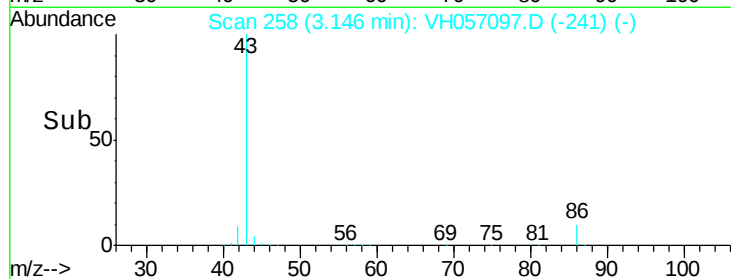
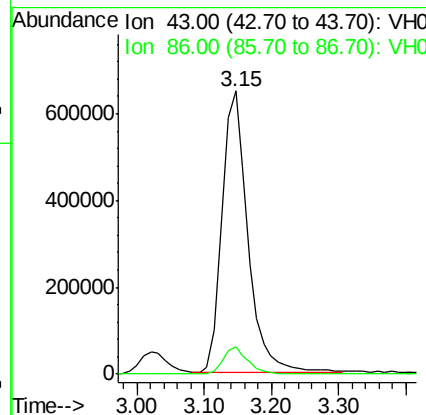
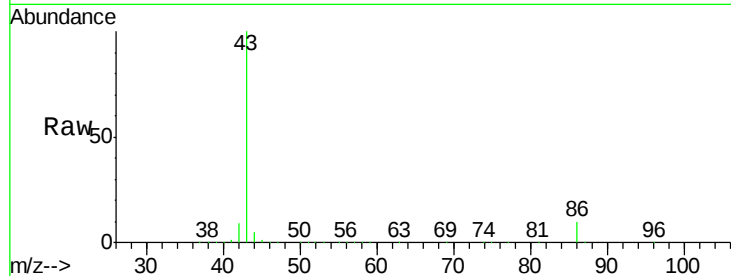
86 9.6 6.2 9.2#

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#24

1,1-Dichloroethane

Concen: 16.44 ug/l

RT: 2.83 min Scan# 228

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

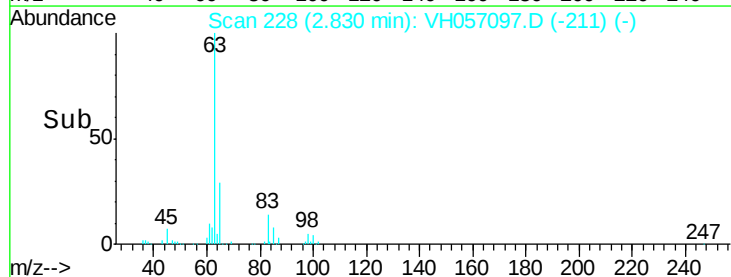
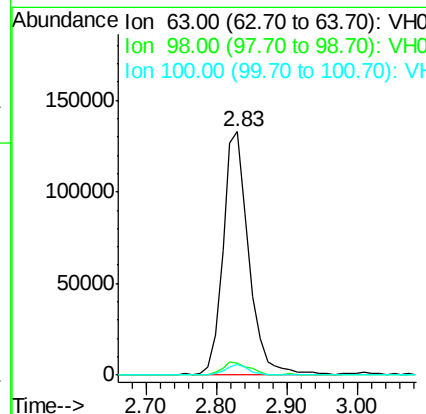
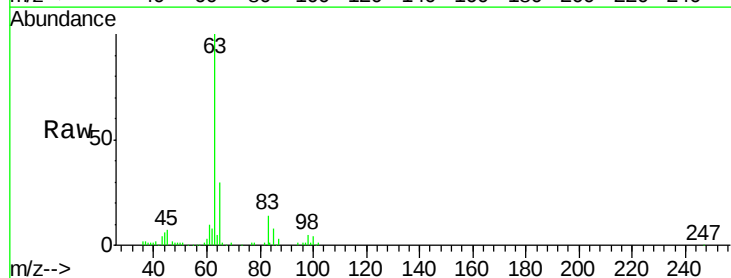
Tgt Ion: 63 Resp: 333479

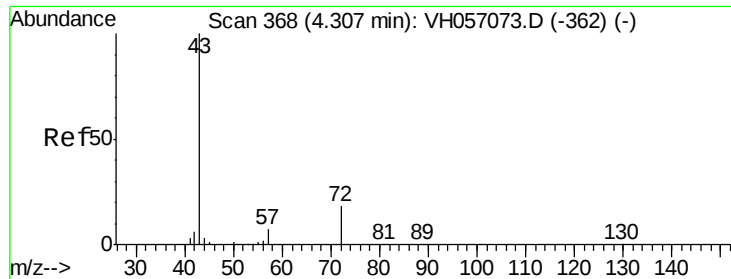
Ion Ratio Lower Upper

63 100

98 5.0 2.6 7.8

100 4.4 1.7 5.0





#25

2-Butanone

Concen: 84.52 ug/l

RT: 4.29 min Scan# 366

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 43 Resp: 1295720

Ion Ratio Lower Upper

43 100

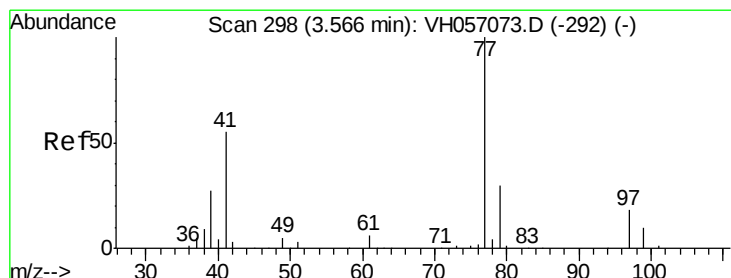
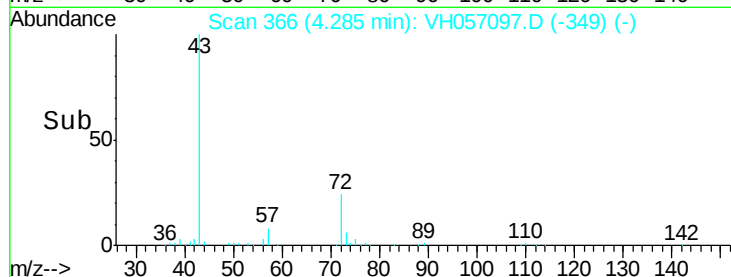
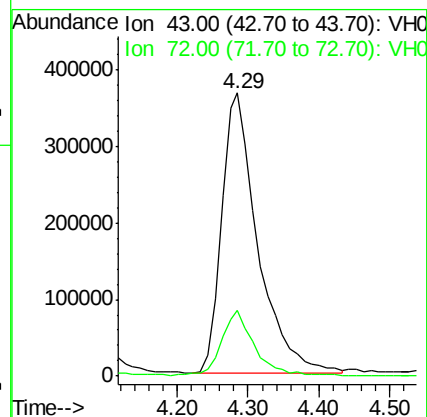
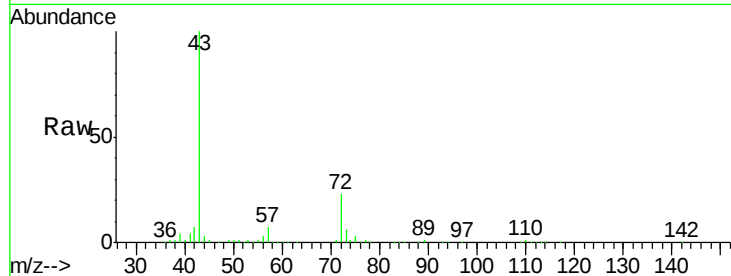
72 23.2 0.0 39.2

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#26

2,2-Dichloropropane

Concen: 17.33 ug/l

RT: 3.55 min Scan# 296

Delta R.T. -0.02 min

Lab File: VH057097.D

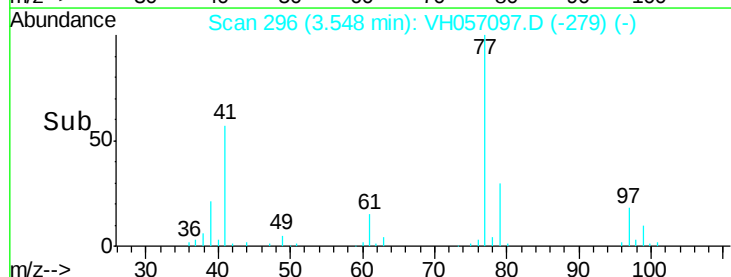
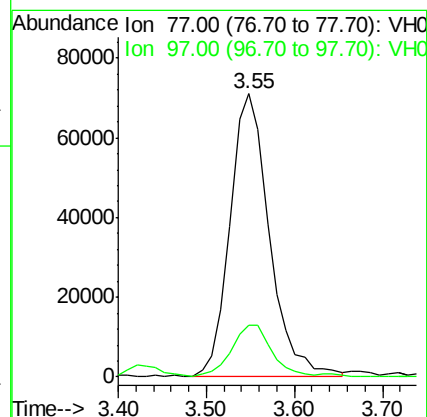
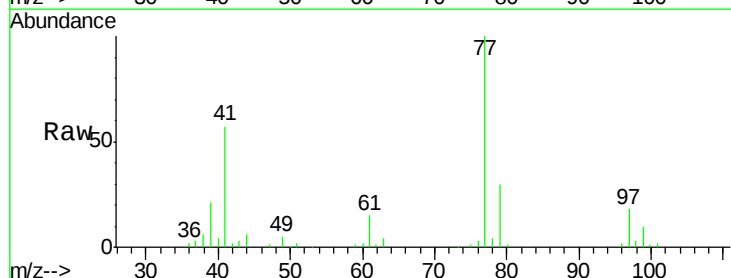
Acq: 21 Sep 2015 18:13

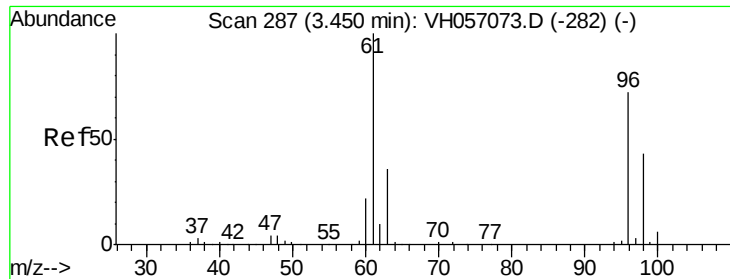
Tgt Ion: 77 Resp: 220691

Ion Ratio Lower Upper

77 100

97 18.3 8.8 26.4





#27

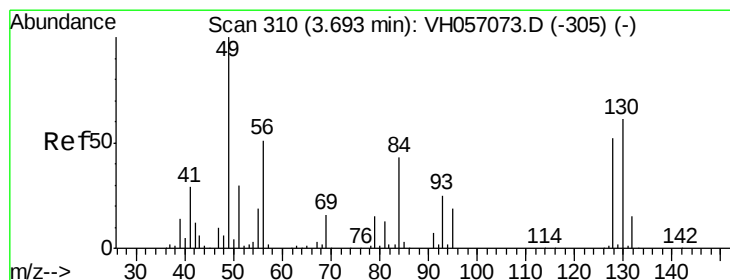
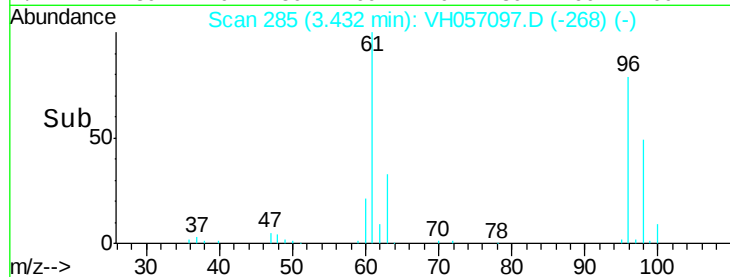
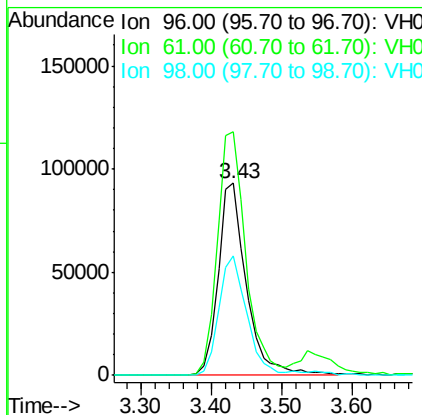
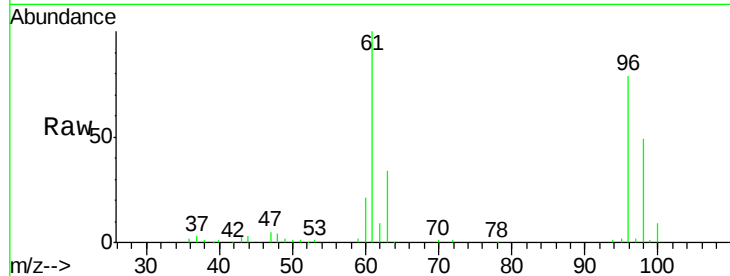
cis-1,2-Dichloroethene
Concen: 19.86 ug/l
RT: 3.43 min Scan# 285
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		259989		
61	126.9	115.4		173.0	
98	62.5	49.7		74.5	

Manual Integrations
APPROVED

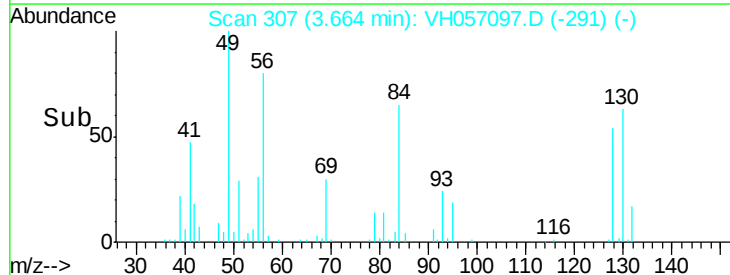
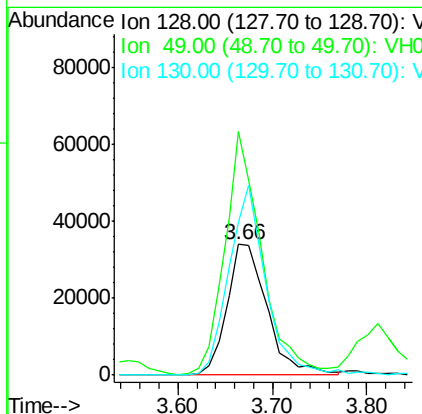
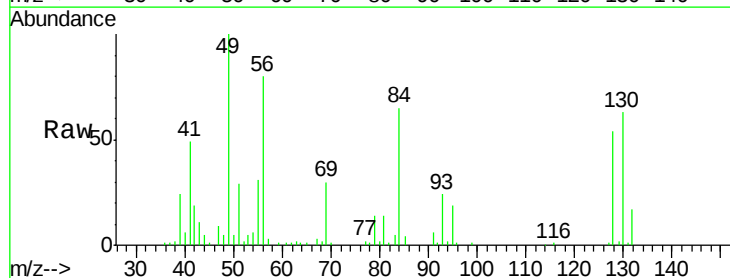
MMDadoda
9/22/2015 2:55:04 PM

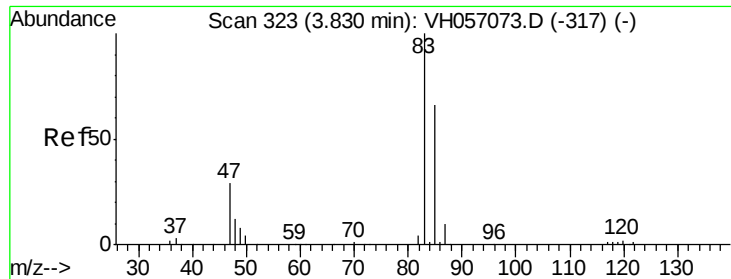


#28

Bromochloromethane
Concen: 22.91 ug/l
RT: 3.66 min Scan# 307
Delta R.T. -0.03 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
128	100		100164		
49	186.3	0.0		441.4	
130	116.8	100.7		151.1	





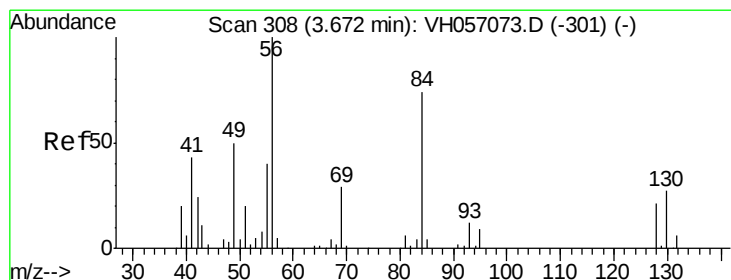
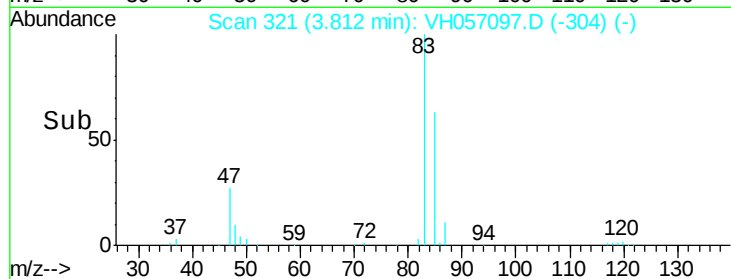
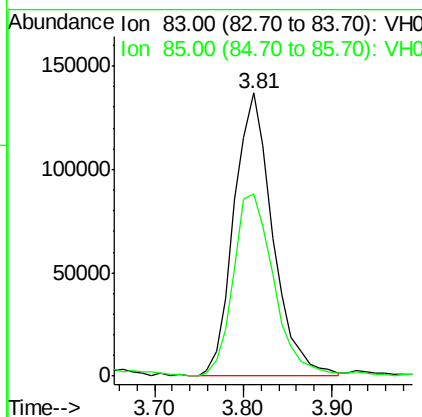
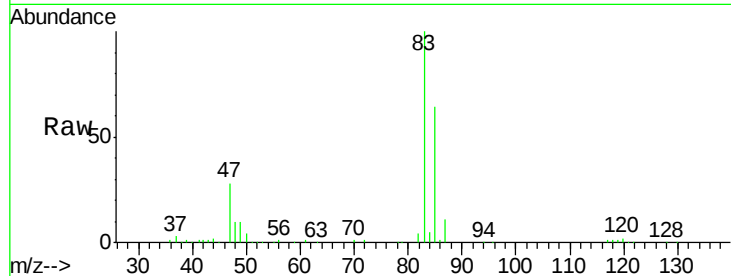
#29
Chloroform
Concen: 17.18 ug/l
RT: 3.81 min Scan# 321
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBS01

Tot Ion	83	Resp	411963
Ion Ratio	Lower	Upper	
83	100		
85	64.5	54.3	81.5

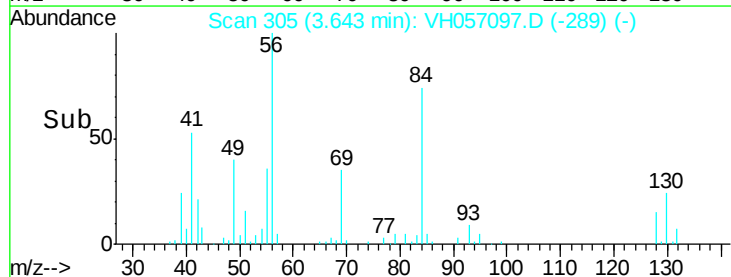
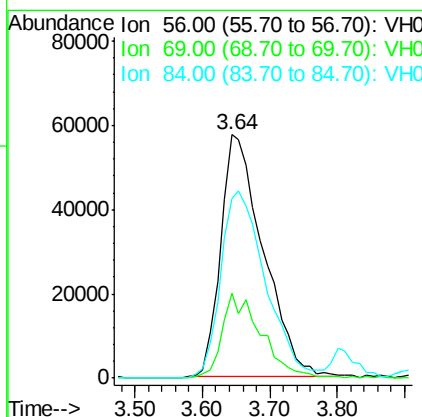
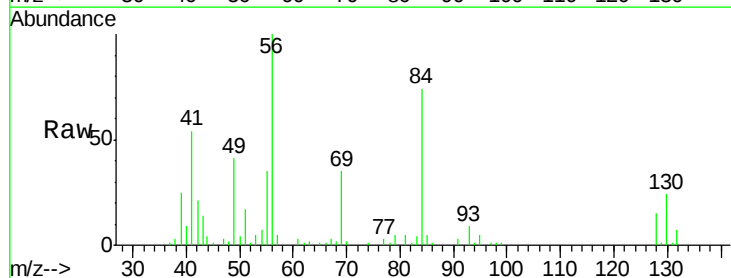
Manual Integrations
APPROVED

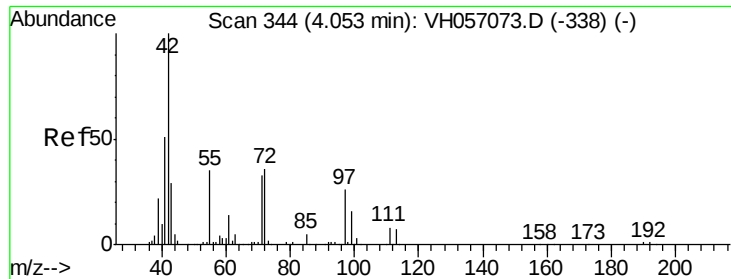
MMDadoda
9/22/2015 2:55:04 PM



#30
Cyclohexane
Concen: 15.45 ug/l
RT: 3.64 min Scan# 305
Delta R.T. -0.03 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	56	Resp	251190
Ion Ratio	Lower	Upper	
56	100		
69	34.8	18.1	33.7#
84	73.6	0.0	136.8





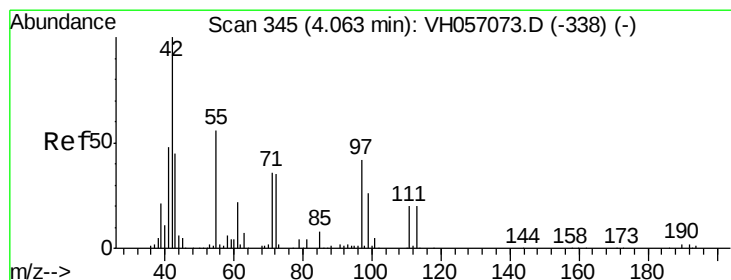
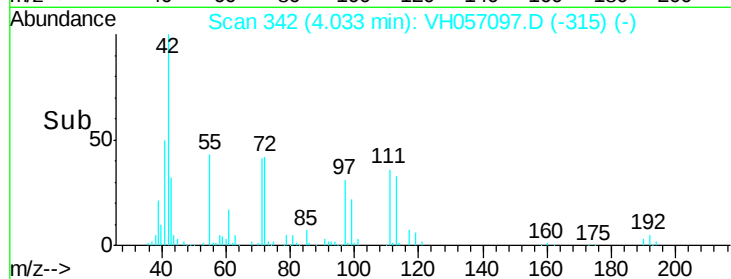
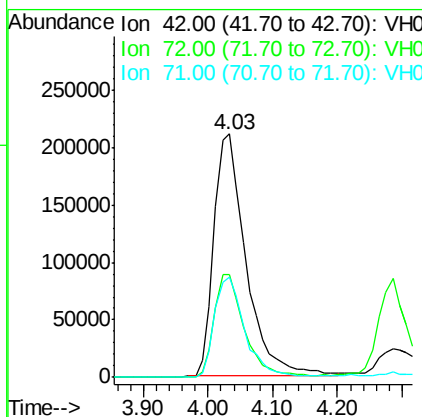
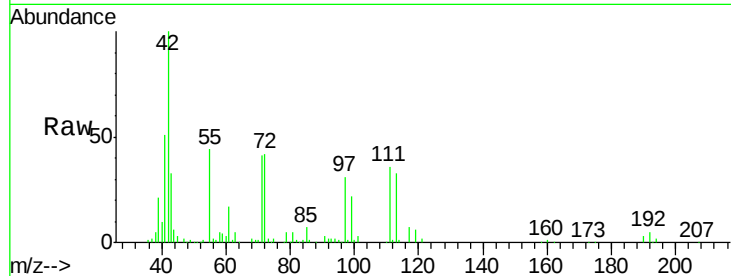
#31
Tetrahydrofuran
Concen: 84.89 ug/l
RT: 4.03 min Scan# 342
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.8	25.5	38.3#
71	39.2	25.4	38.0#

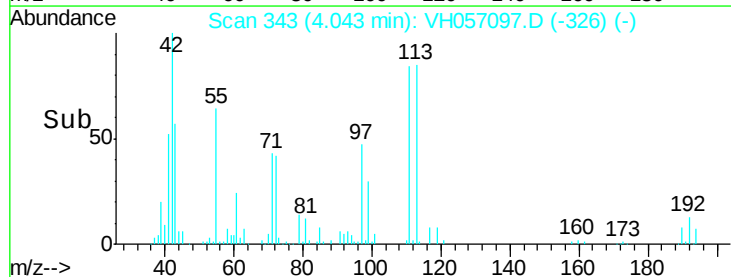
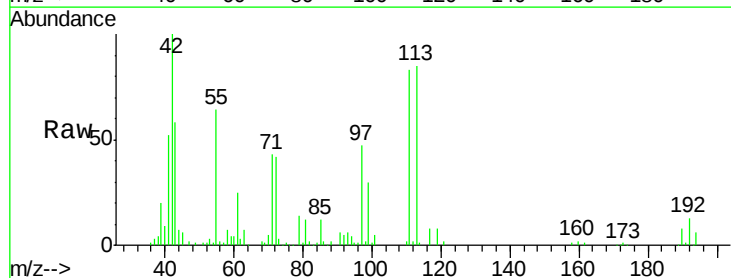
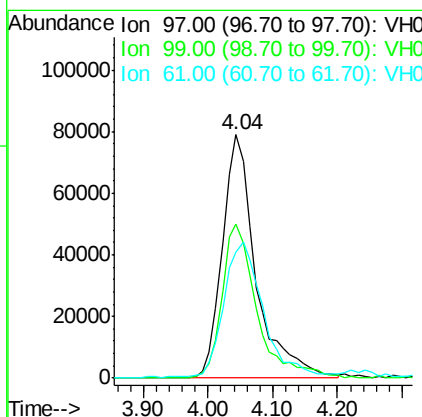
Manual Integrations
APPROVED

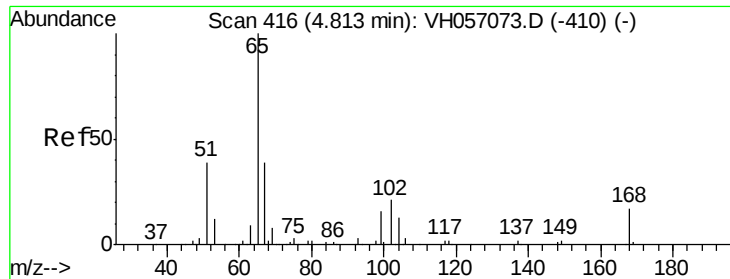
MMDadoda
9/22/2015 2:55:04 PM



#32
1,1,1-Trichloroethane
Concen: 16.60 ug/l
RT: 4.04 min Scan# 343
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	49.8	74.6
61	51.8	45.0	67.4





#33

1,2-Dichloroethane-d4

Concen: 42.12 ug/l

RT: 4.79 min Scan# 414

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 65 Resp: 695216

Ion Ratio Lower Upper

65 100

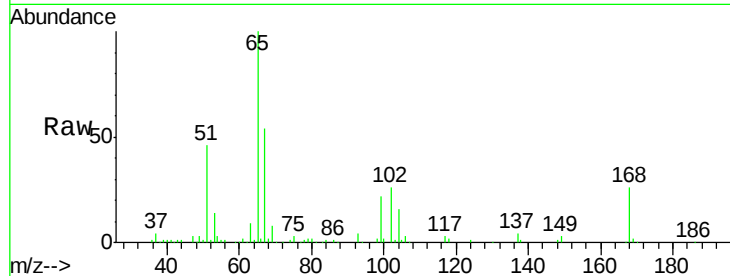
67 53.8 43.2 64.8

Manual Integrations

APPROVED

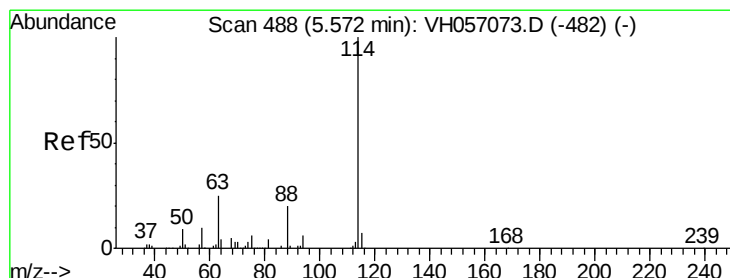
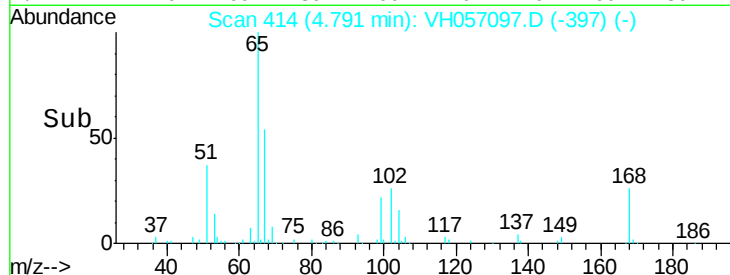
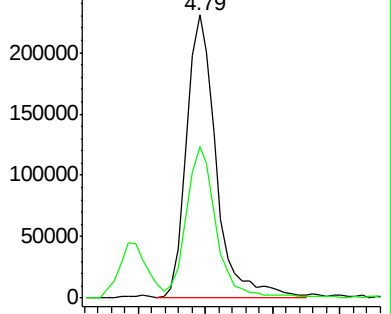
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 65.00 (64.70 to 65.70): VH0

Ion 67.00 (66.70 to 67.70): VH0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.55 min Scan# 486

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

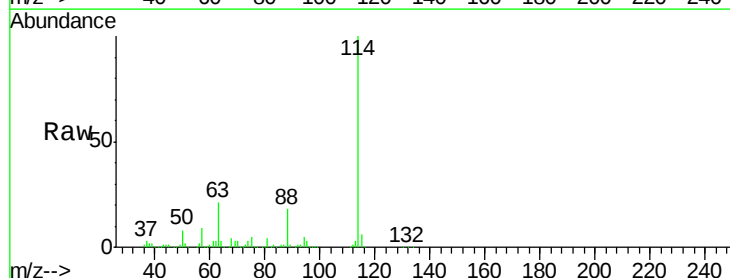
Tgt Ion: 114 Resp: 1656598

Ion Ratio Lower Upper

114 100

63 20.8 19.0 28.4

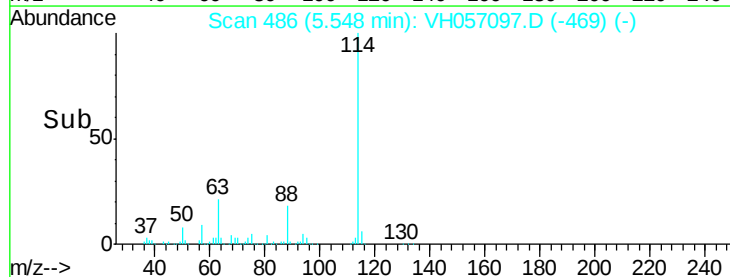
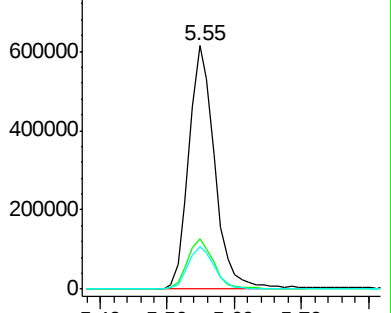
88 17.7 15.7 23.5

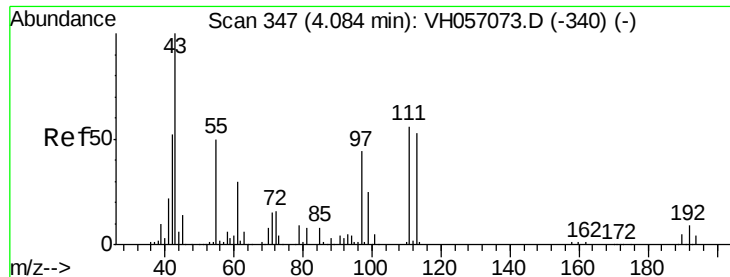


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VH0

Ion 88.00 (87.70 to 88.70): VH0





#35

Dibromofluoromethane

Concen: 49.37 ug/l

RT: 4.06 min Scan# 345

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

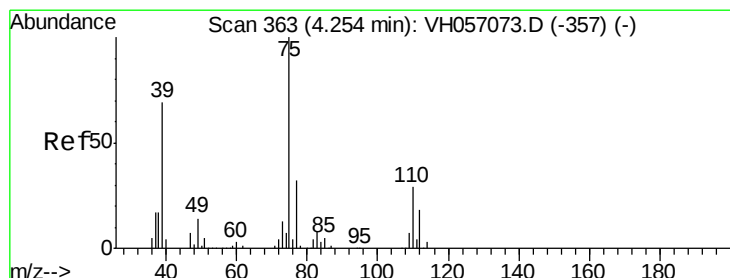
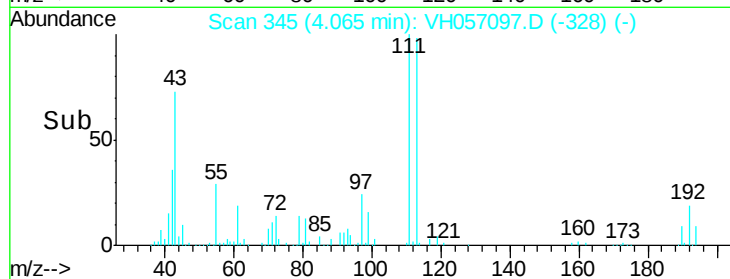
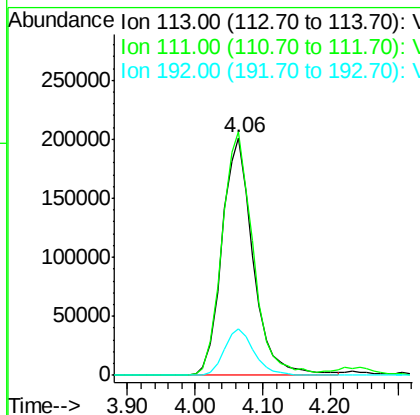
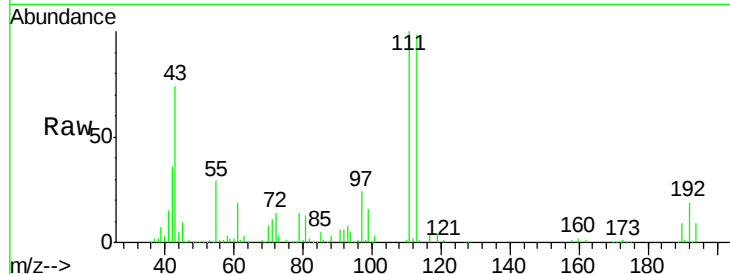
ClientSampleId :

VH0921MBSD01

Tot Ion:	113	Resp:	651183
Ion Ratio	Lower	Upper	
113	100		
111	102.5	84.0	126.0
192	19.6	13.6	20.4

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



#36

1,1-Dichloropropene

Concen: 16.89 ug/l

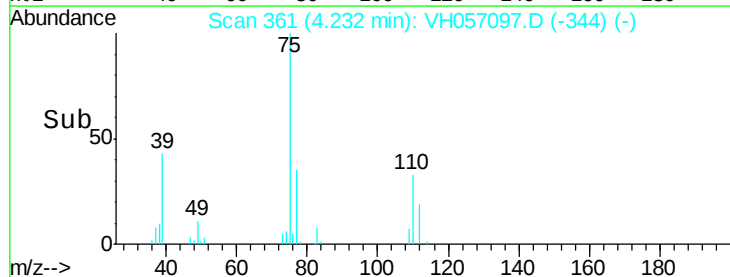
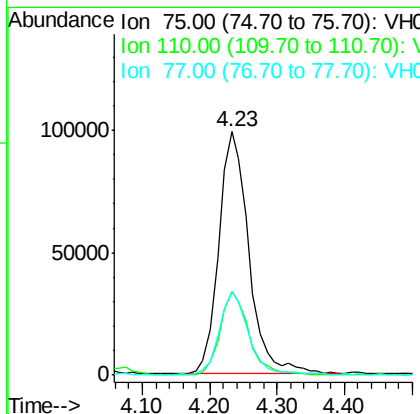
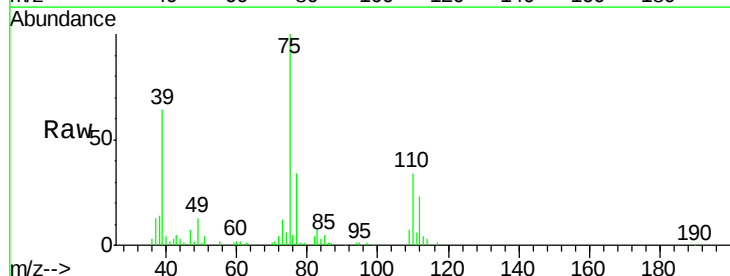
RT: 4.23 min Scan# 361

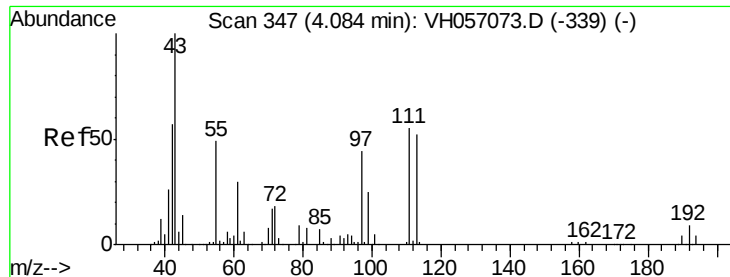
Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tgt Ion:	75	Resp:	307398
Ion Ratio	Lower	Upper	
75	100		
110	34.4	13.7	41.1
77	34.5	24.0	36.0





#37

Ethyl acetate

Concen: 17.24 ug/l

RT: 4.06 min Scan# 345

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 43 Resp: 589053

Ion Ratio Lower Upper

43 100

61 32.3 23.9 35.9

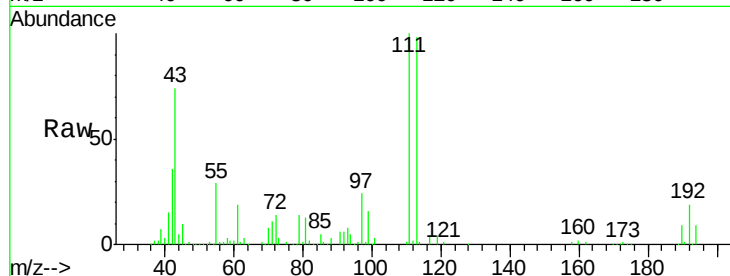
70 8.4 5.4 8.0#

Manual Integrations

APPROVED

MMDadoda

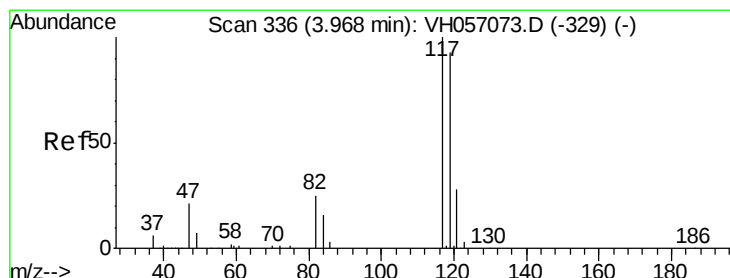
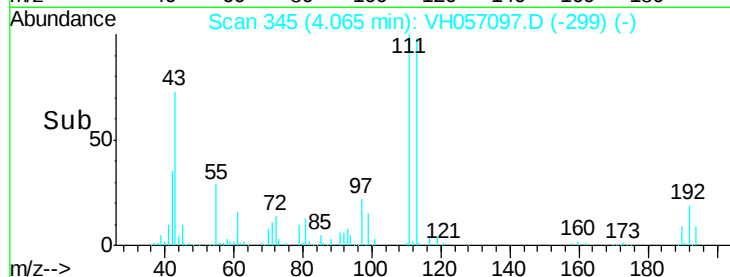
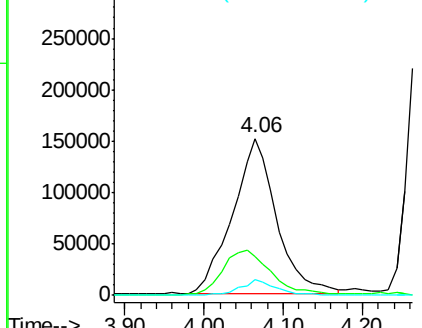
9/22/2015 2:55:04 PM



Abundance Ion 43.05 (42.75 to 43.75): VH0

Ion 61.00 (60.70 to 61.70): VH0

Ion 70.05 (69.75 to 70.75): VH0



#38

Carbon Tetrachloride

Concen: 16.48 ug/l

RT: 3.94 min Scan# 333

Delta R.T. -0.03 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

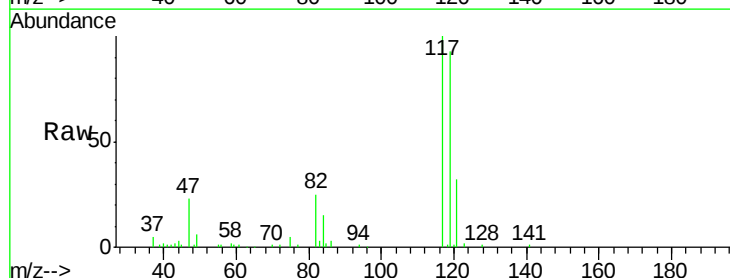
Tgt Ion: 117 Resp: 233506

Ion Ratio Lower Upper

117 100

119 93.2 78.7 118.1

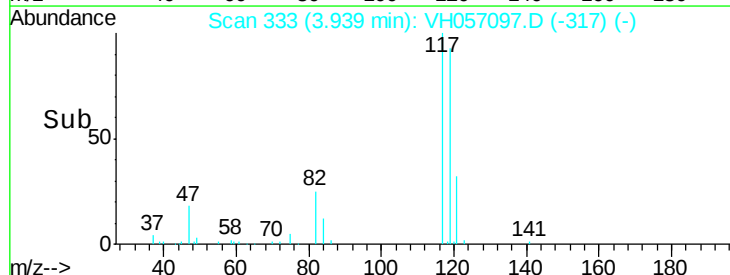
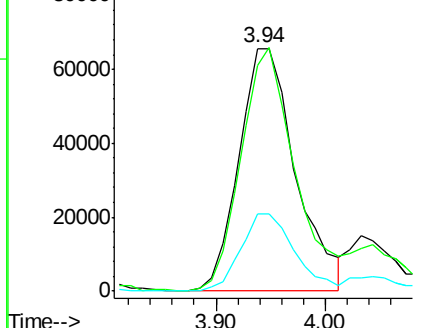
121 31.7 25.9 38.9

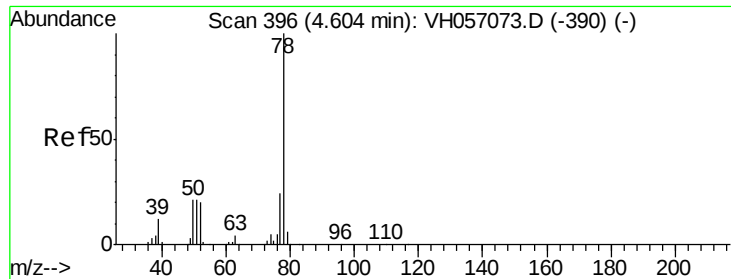


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#39

Benzene

Concen: 18.92 ug/l

RT: 4.58 min Scan# 394

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 78 Resp: 820004

Ion Ratio Lower Upper

78 100

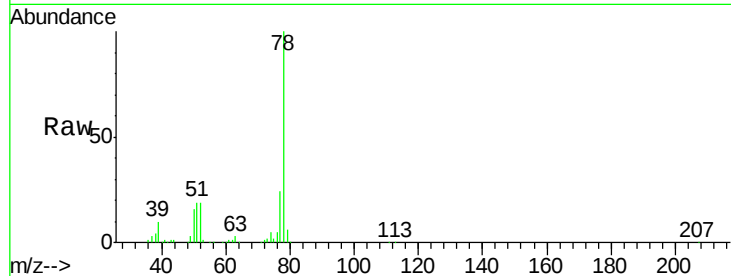
77 24.2 18.5 27.7

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 78.10 (77.80 to 78.80): VH0

Ion 77.00 (76.70 to 77.70): VH0

4.58

250000

200000

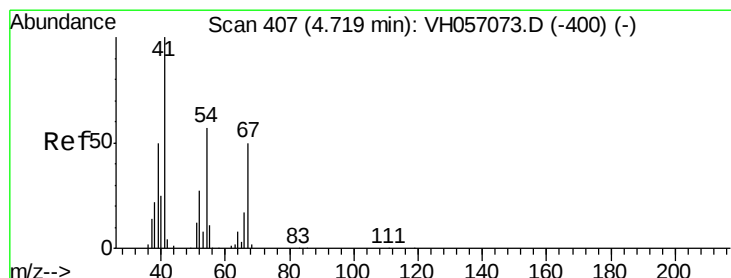
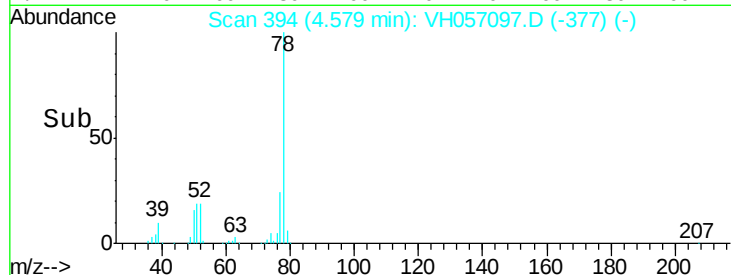
150000

100000

50000

0

Time-->



#40

Methacrylonitrile

Concen: 17.38 ug/l

RT: 4.70 min Scan# 405

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tgt Ion: 41 Resp: 262865

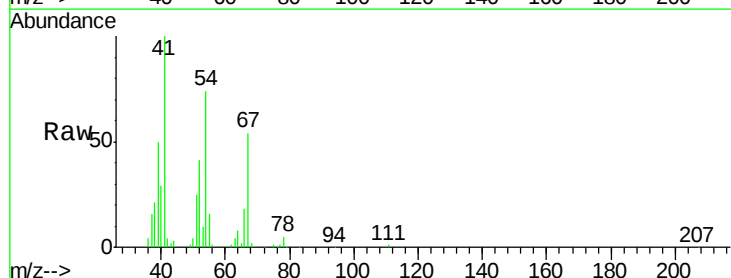
Ion Ratio Lower Upper

41 100

39 50.4 25.1 75.2

67 53.5 22.5 67.5

52 41.4 19.0 57.0



Abundance Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0

Ion 67.00 (66.70 to 67.70): VH0

Ion 52.00 (51.70 to 52.70): VH0

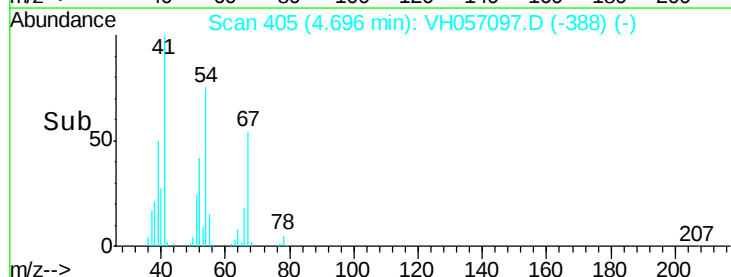
150000

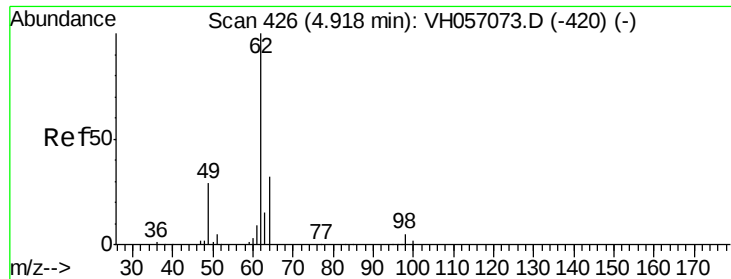
100000

50000

0

Time-->





#41

1,2-Dichloroethane

Concen: 16.37 ug/l

RT: 4.89 min Scan# 423

Delta R.T. -0.03 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 62 Resp: 313079

Ion Ratio Lower Upper

62 100

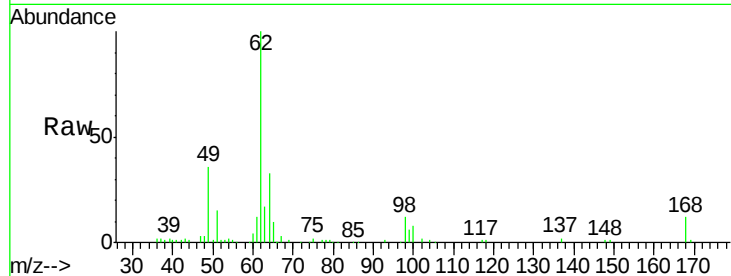
98 12.2 7.3 10.9#

Manual Integrations

APPROVED

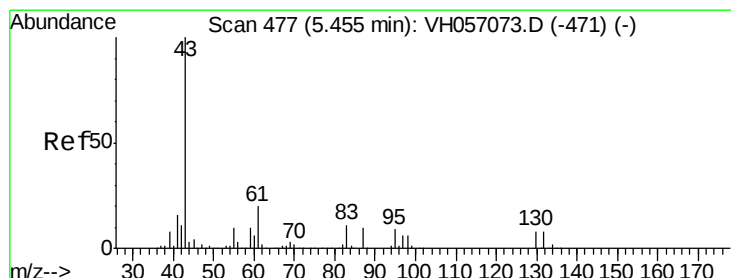
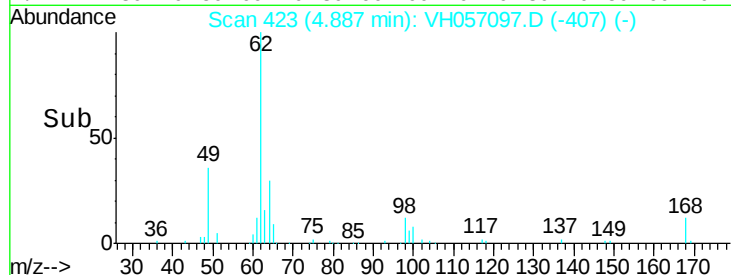
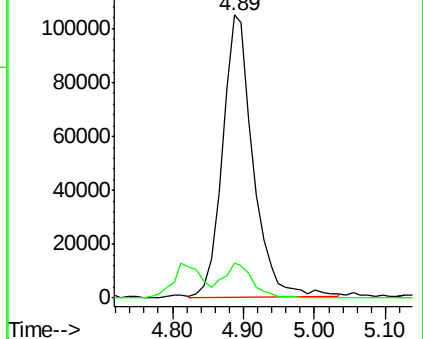
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 98.00 (97.70 to 98.70): VH0



#42

Isopropyl Acetate

Concen: 17.45 ug/l

RT: 5.43 min Scan# 475

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

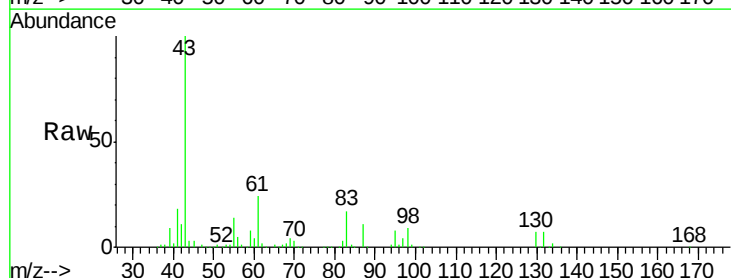
Tgt Ion: 43 Resp: 778485

Ion Ratio Lower Upper

43 100

61 23.6 15.8 23.6

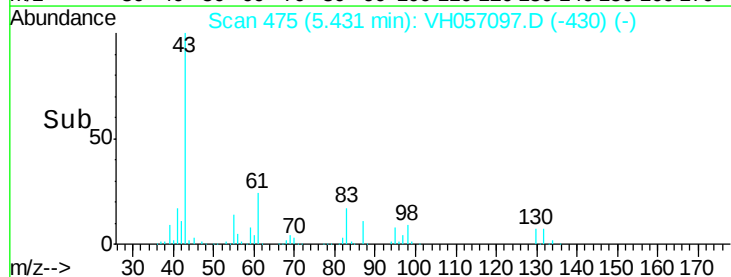
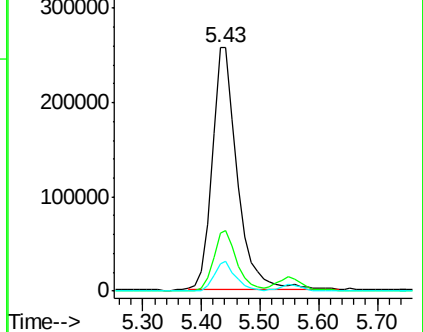
87 11.1 7.0 10.6#

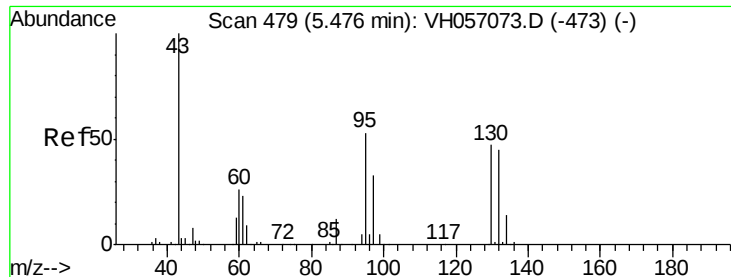


Abundance Ion 43.05 (42.75 to 43.75): VH0

Ion 61.00 (60.70 to 61.70): VH0

Ion 87.00 (86.70 to 87.70): VH0





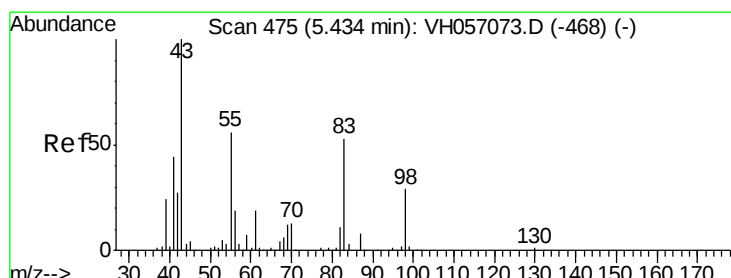
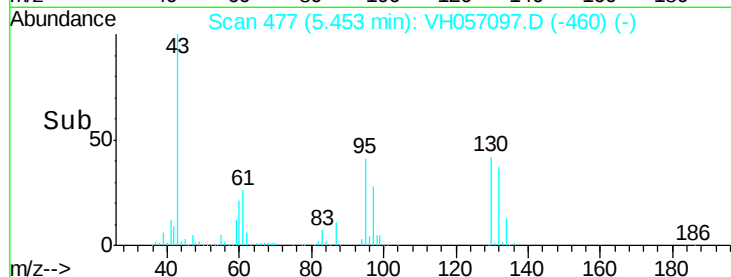
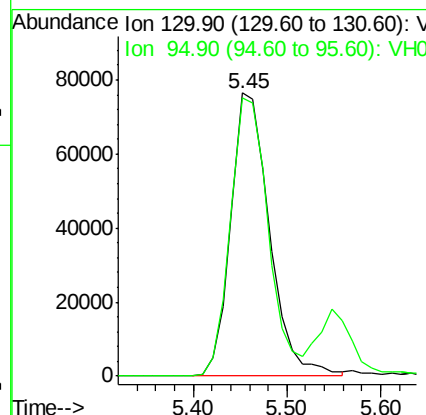
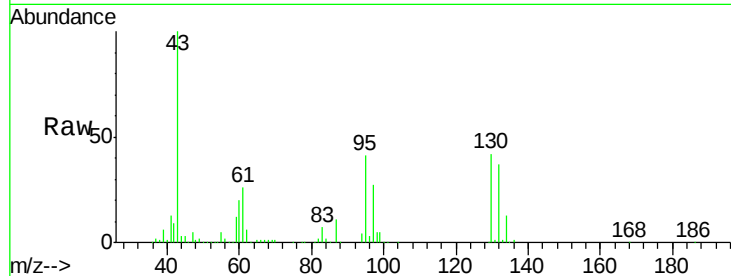
#43
 Trichloroethene
 Concen: 19.99 ug/l
 RT: 5.45 min Scan# 477
 Delta R.T. -0.02 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Instrument :
 MSVOA_H
 ClientSampleId :
 VH0921MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
130	100	220151		
95	98.1	84.0	126.0	

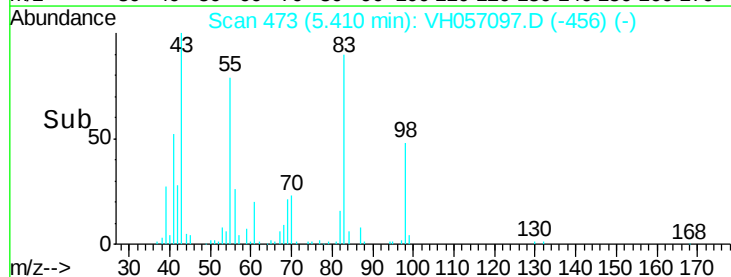
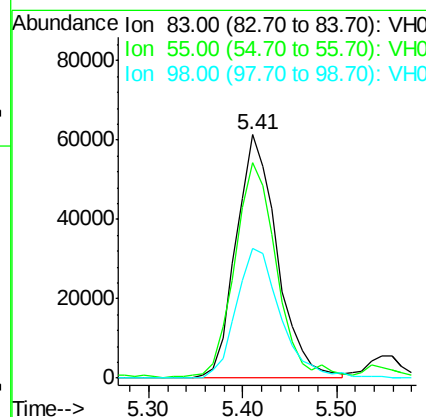
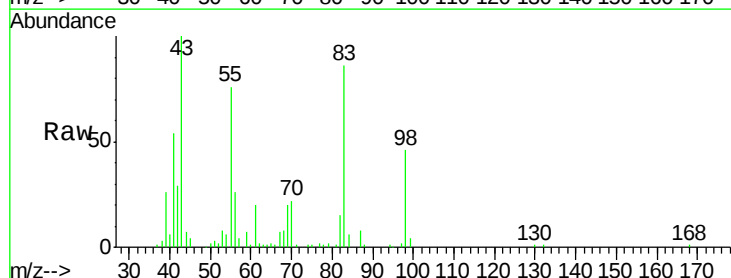
Manual Integrations
 APPROVED

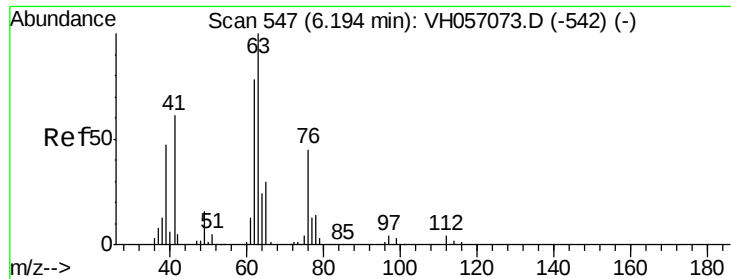
MMDadoda
 9/22/2015 2:55:04 PM



#44
 Methylcyclohexane
 Concen: 17.84 ug/l
 RT: 5.41 min Scan# 473
 Delta R.T. -0.02 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	187167		
55	88.5	0.0	207.2	
98	53.4	0.0	108.4	





#45

1,2-Dichloropropane

Concen: 17.54 ug/l

RT: 6.18 min Scan# 546

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 63 Resp: 241019

Ion Ratio Lower Upper

63 100

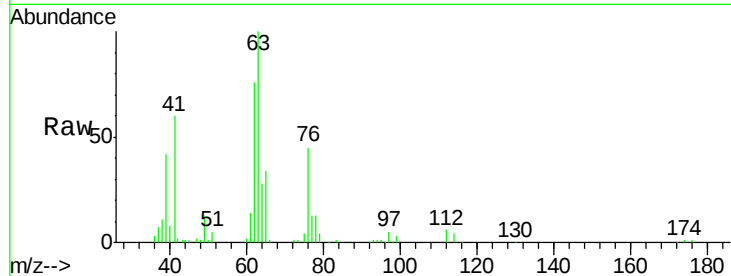
65 34.1 23.8 35.8

Manual Integrations

APPROVED

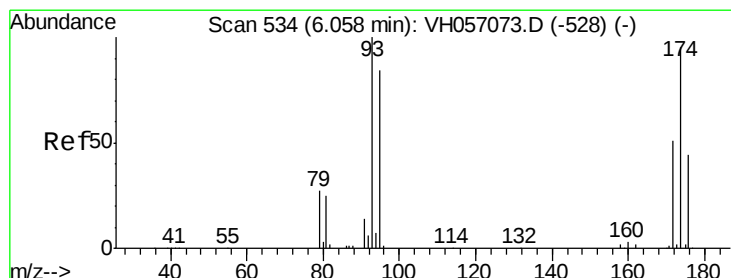
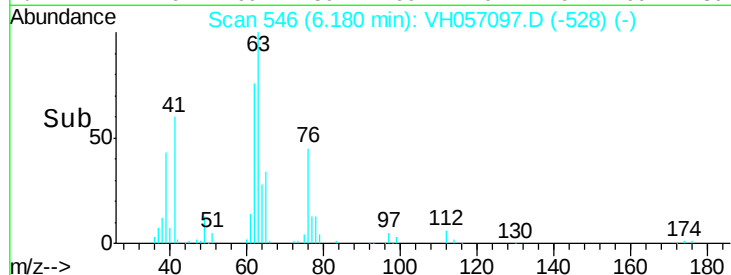
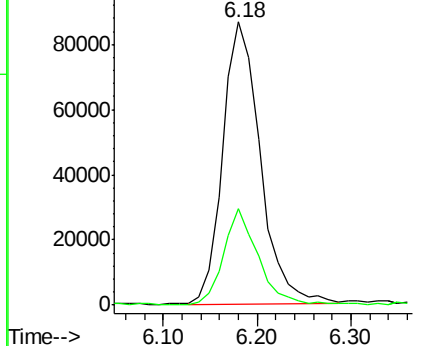
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 63.00 (62.70 to 63.70): VH0

Ion 65.00 (64.70 to 65.70): VH0



#46

Dibromomethane

Concen: 18.49 ug/l

RT: 6.04 min Scan# 533

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

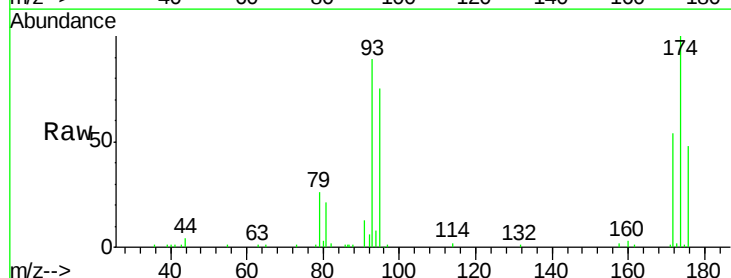
Tgt Ion: 93 Resp: 165244

Ion Ratio Lower Upper

93 100

95 84.0 69.5 104.3

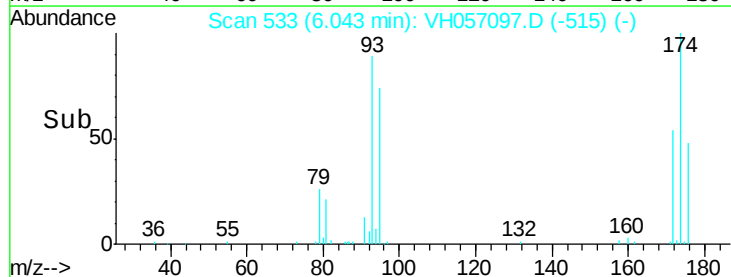
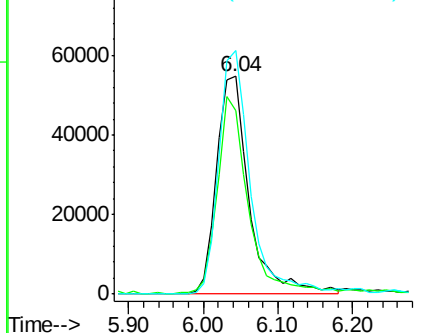
174 111.8 75.8 113.6

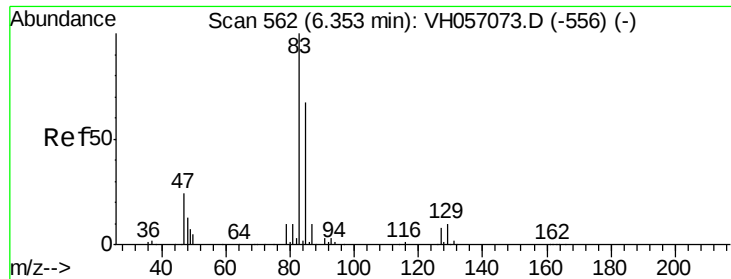


Abundance Ion 93.00 (92.70 to 93.70): VH0

Ion 95.00 (94.70 to 95.70): VH0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 17.80 ug/l

RT: 6.33 min Scan# 560

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

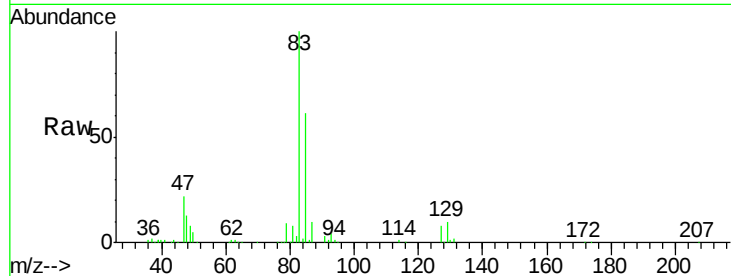
ClientSampleId :

VH0921MBSD01

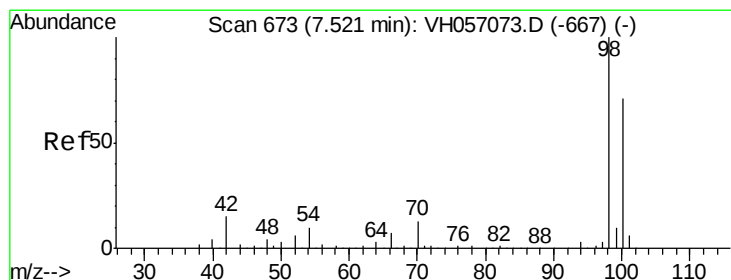
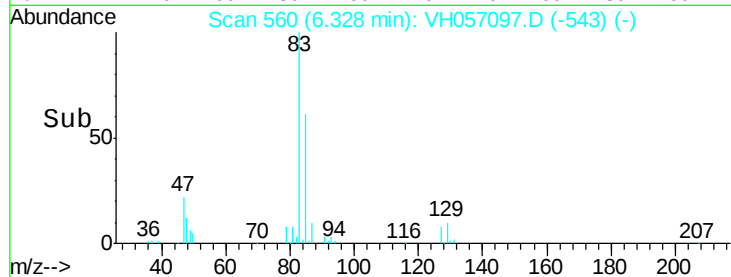
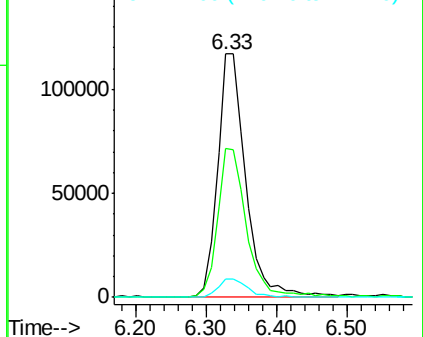
Tot Ion:	83	Resp:	325785
Ion Ratio	Lower	Upper	
83	100		
85	61.0	52.6	78.8
127	7.7	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



Abundance Ion 83.00 (82.70 to 83.70): VH0
Ion 85.00 (84.70 to 85.70): VH0
Ion 127.00 (126.70 to 127.70): V



#48

Toluene-d8

Concen: 45.38 ug/l

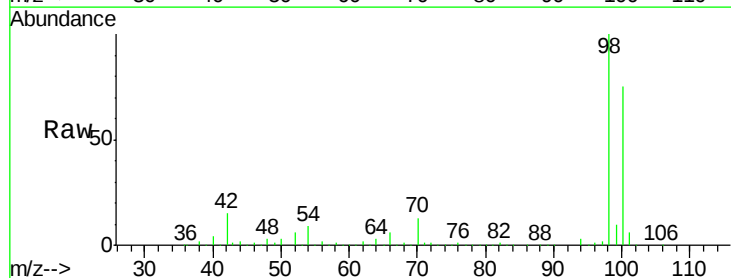
RT: 7.50 min Scan# 671

Delta R.T. -0.02 min

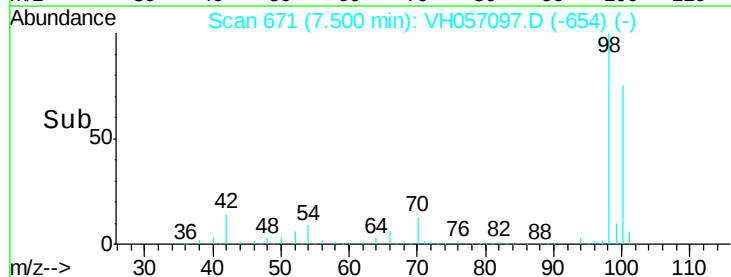
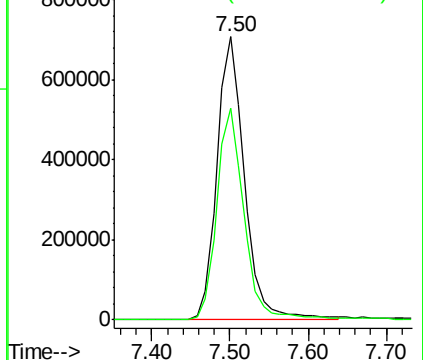
Lab File: VH057097.D

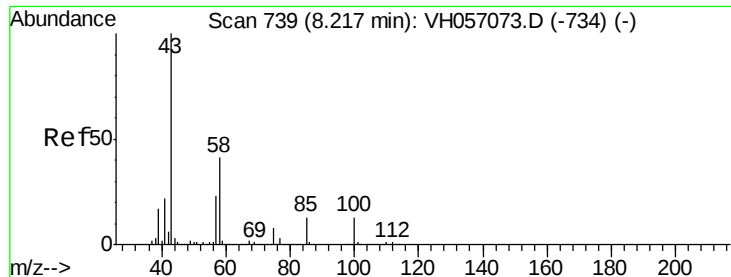
Acq: 21 Sep 2015 18:13

Tgt Ion:	98	Resp:	1721025
Ion Ratio	Lower	Upper	
98	100		
100	74.8	56.7	85.1



Abundance Ion 98.00 (97.70 to 98.70): VH0
Ion 100.00 (99.70 to 100.70): V





#49

4-Methyl-2-Pentanone

Concen: 87.44 ug/l

RT: 8.20 min Scan# 737

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 43 Resp: 2363105

Ion Ratio Lower Upper

43 100

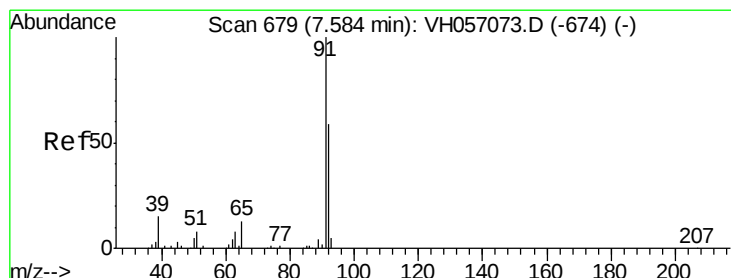
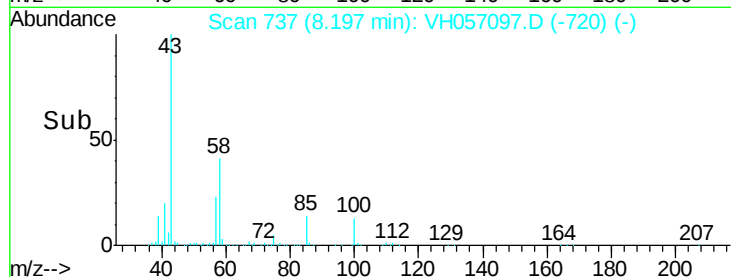
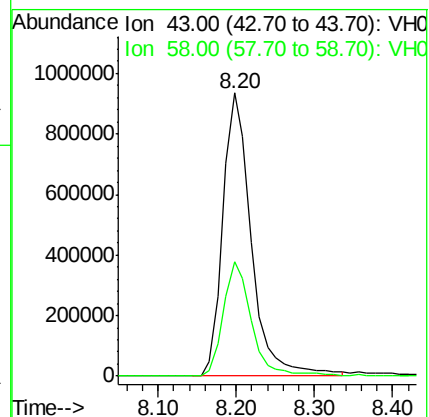
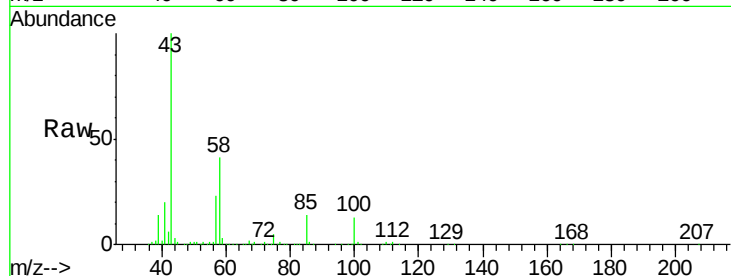
58 40.6 20.0 60.0

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#50

Toluene

Concen: 18.46 ug/l

RT: 7.57 min Scan# 678

Delta R.T. -0.01 min

Lab File: VH057097.D

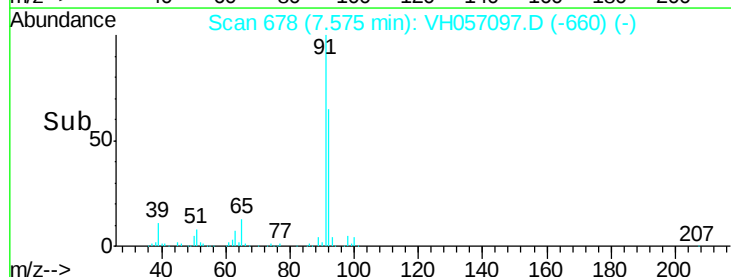
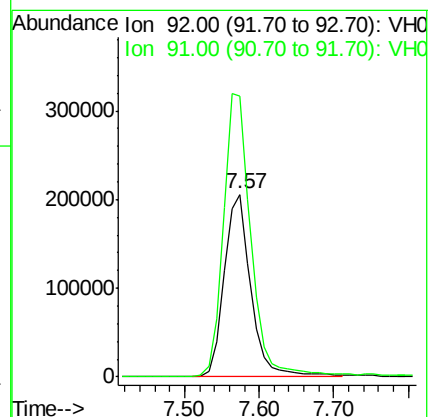
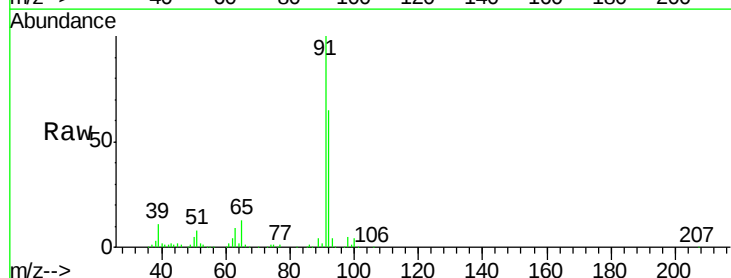
Acq: 21 Sep 2015 18:13

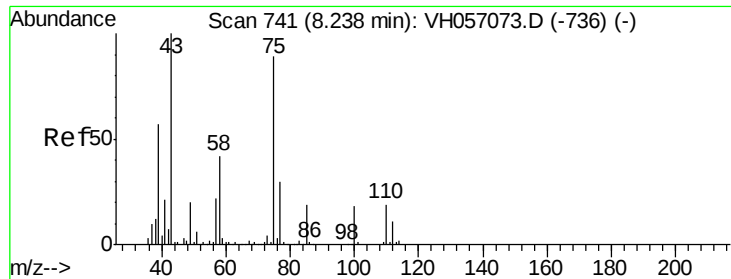
Tgt Ion: 92 Resp: 512426

Ion Ratio Lower Upper

92 100

91 153.9 125.8 188.6





#51

t-1,3-Dichloropropene

Concen: 17.42 ug/l

RT: 8.22 min Scan# 739

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tot Ion: 75 Resp: 365596

Ion Ratio Lower Upper

75 100

77 33.2 26.2 39.2

Instrument :

MSVOA_H

ClientSampleId :

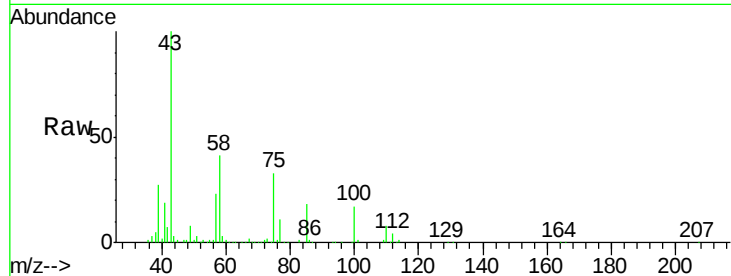
VH0921MBSD01

Manual Integrations

APPROVED

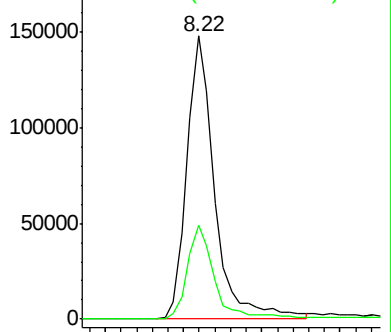
MMDadoda

9/22/2015 2:55:04 PM

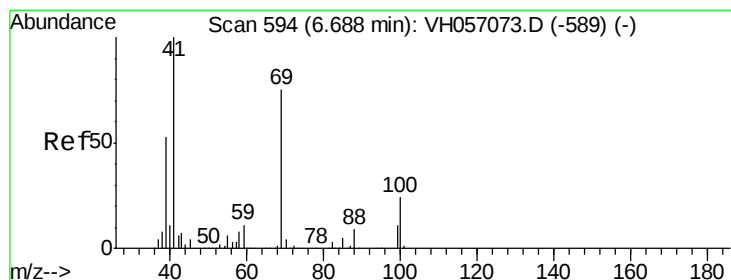
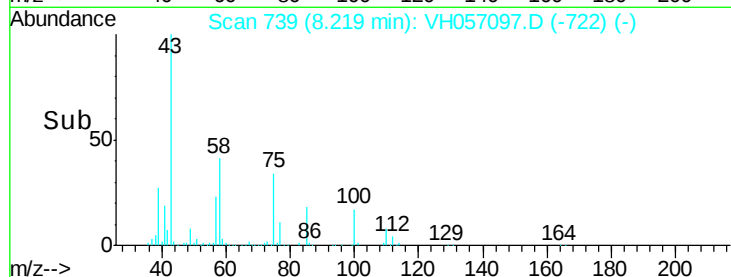


Abundance Ion 75.00 (74.70 to 75.70): VH0

Ion 77.00 (76.70 to 77.70): VH0



Time-->



#52

Methyl Methacrylate

Concen: 19.51 ug/l

RT: 6.67 min Scan# 592

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

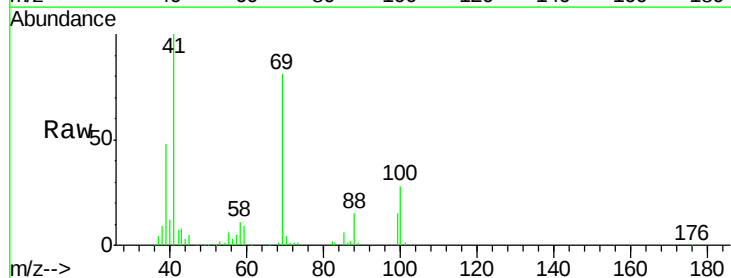
Tgt Ion: 69 Resp: 265327

Ion Ratio Lower Upper

69 100

41 122.9 70.0 209.8

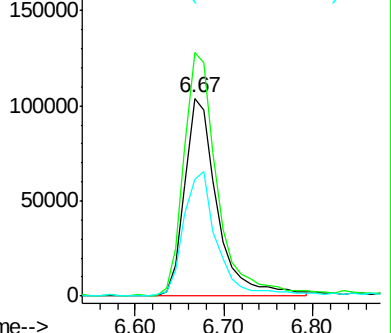
39 59.1 37.5 112.5



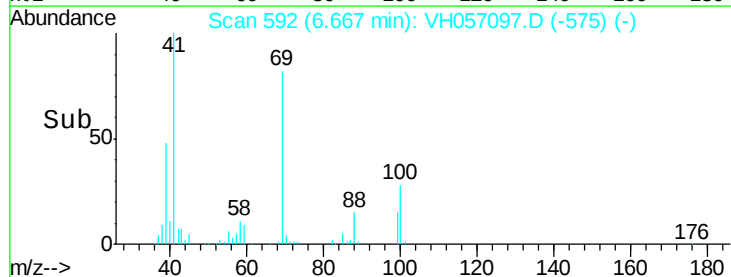
Abundance Ion 69.00 (68.70 to 69.70): VH0

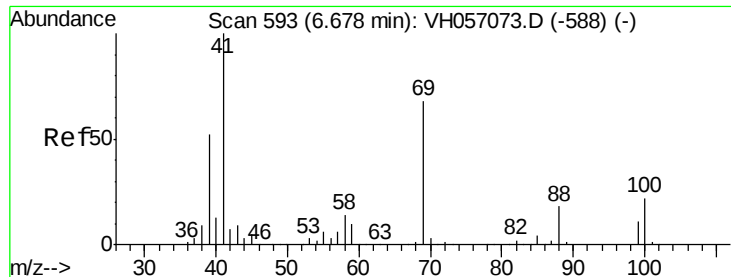
Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0



Time-->





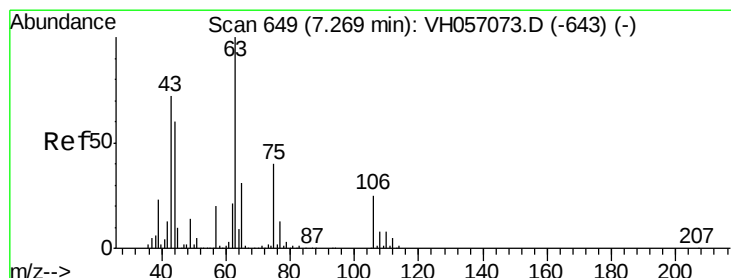
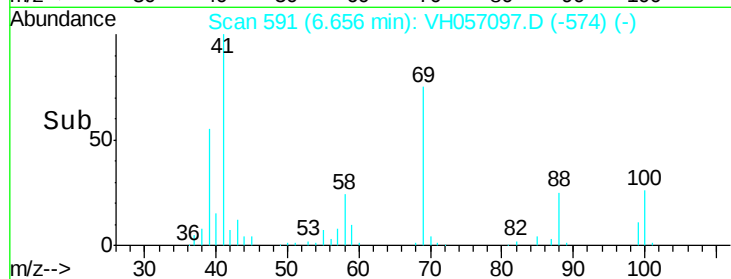
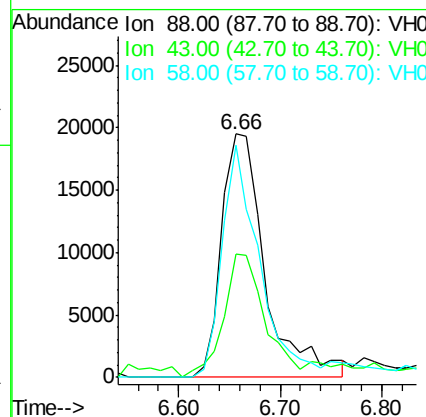
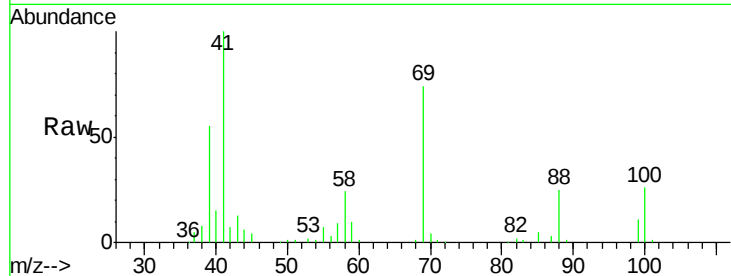
#53
1,4-Dioxane
Concen: 362.92 ug/l
RT: 6.66 min Scan# 591
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	57884		
43	50.8	39.6	59.4	
58	95.5	61.4	92.2	#

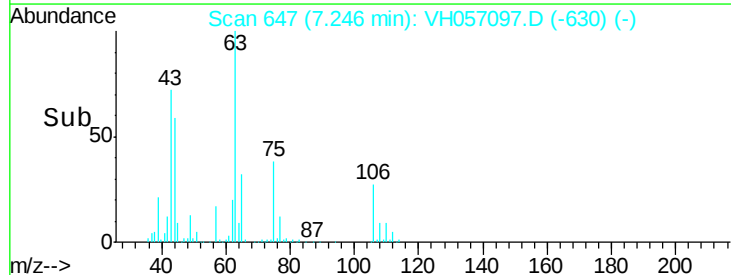
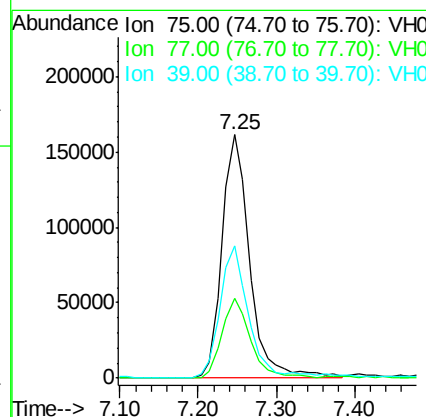
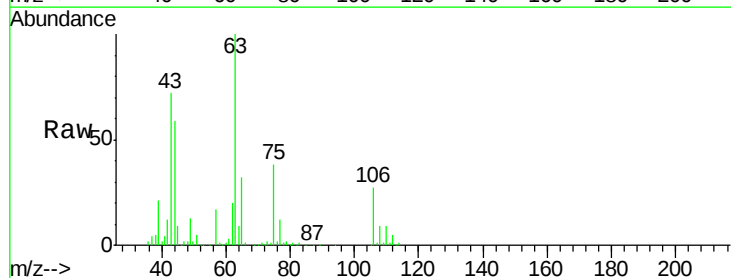
Manual Integrations
APPROVED

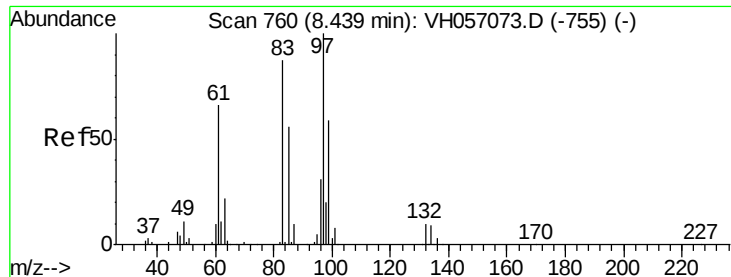
MMDadoda
9/22/2015 2:55:04 PM



#54
cis-1,3-Dichloropropene
Concen: 17.92 ug/l
RT: 7.25 min Scan# 647
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	399369		
77	32.6	25.2	37.8	
39	54.5	50.7	76.1	





#55

1,1,2-Trichloroethane

Concen: 18.56 ug/l

RT: 8.43 min Scan# 759

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

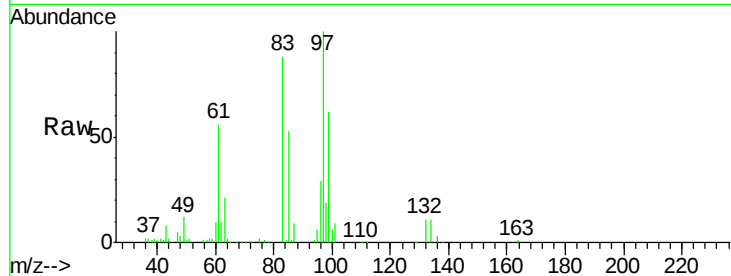
ClientSampleId :

VH0921MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		218620		
83	88.0		72.7	109.1	
85	53.4		45.5	68.3	
99	61.9		46.2	69.2	

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM

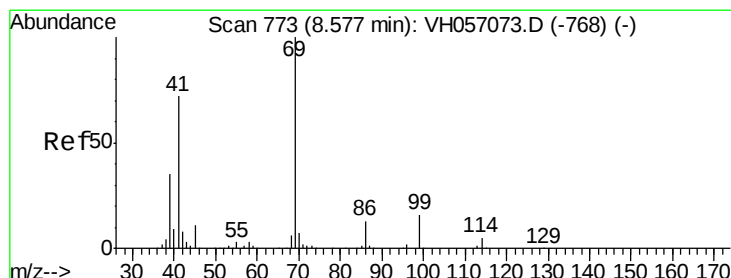
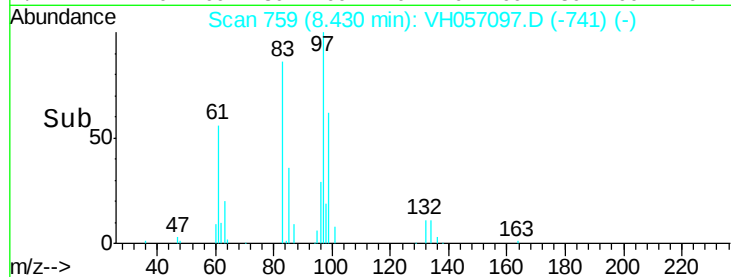
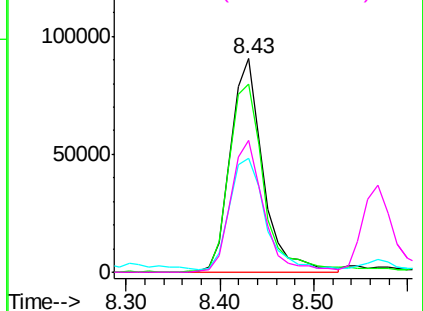


Abundance Ion 97.00 (96.70 to 97.70): VH0

Ion 82.95 (82.65 to 83.65): VH0

Ion 84.95 (84.65 to 85.65): VH0

Ion 98.95 (98.65 to 99.65): VH0



#56

Ethyl Methacrylate

Concen: 18.23 ug/l

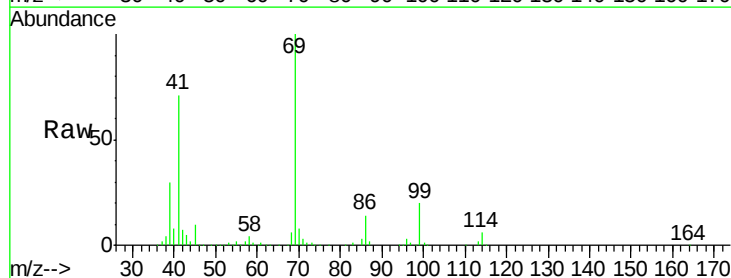
RT: 8.57 min Scan# 772

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

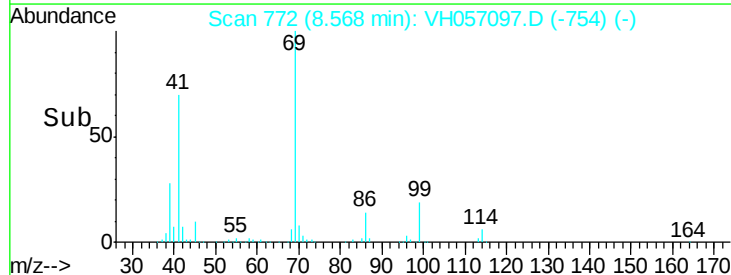
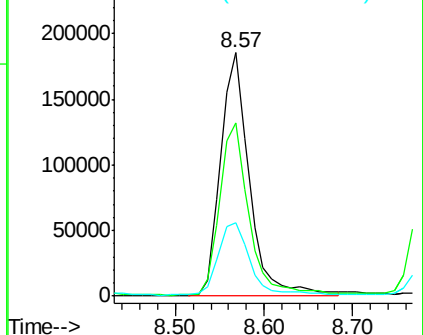
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		424217		
41	71.1		39.1	117.3	
39	30.2		19.2	57.6	

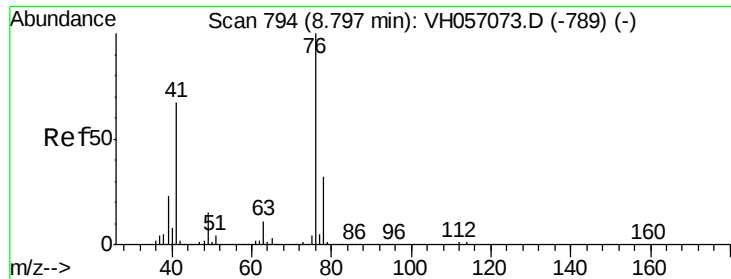


Abundance Ion 69.00 (68.70 to 69.70): VH0

Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0





#57

1,3-Dichloropropane

Concen: 18.74 ug/l

RT: 8.79 min Scan# 793

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 76 Resp: 449053

Ion Ratio Lower Upper

76 100

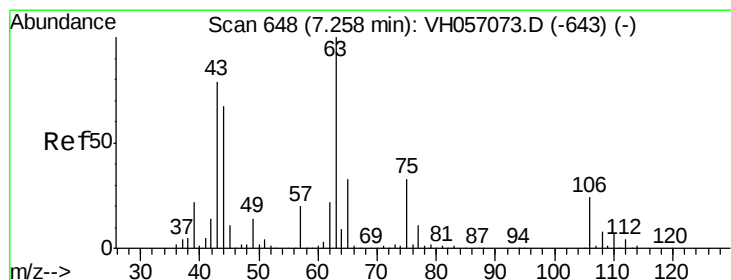
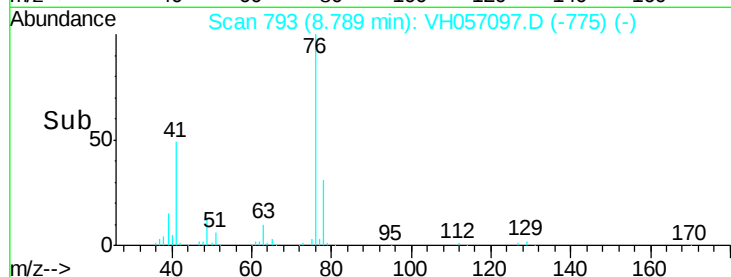
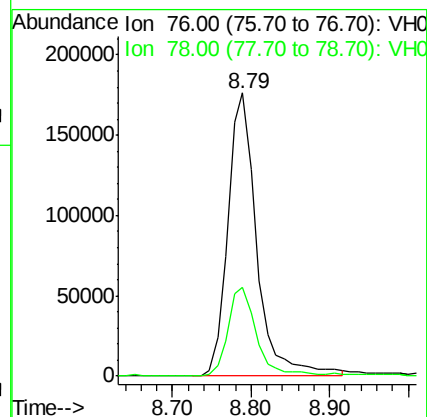
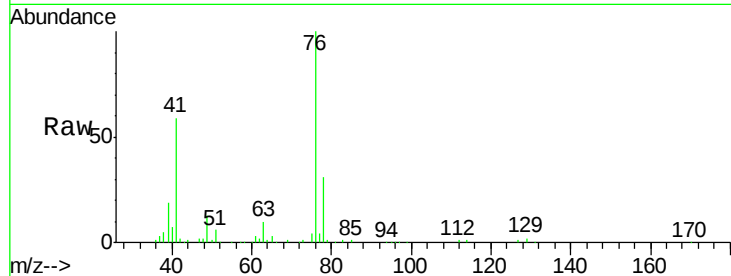
78 31.2 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#58

2-Chloroethyl Vinyl ether

Concen: 95.52 ug/l

RT: 7.25 min Scan# 647

Delta R.T. -0.01 min

Lab File: VH057097.D

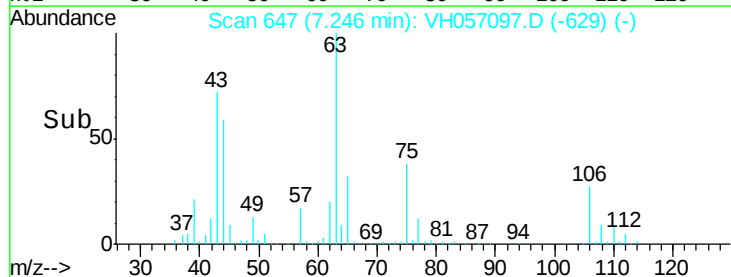
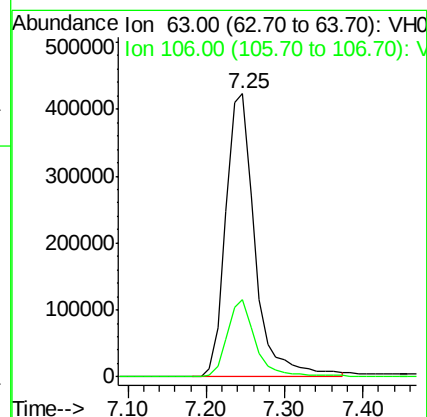
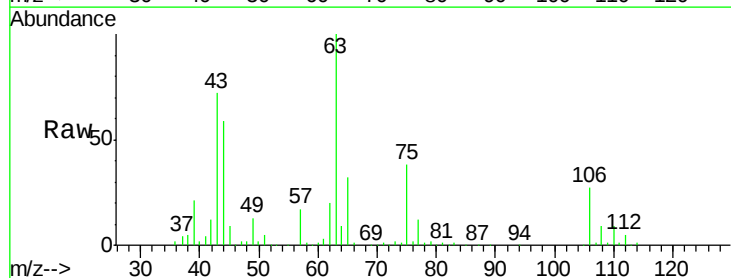
Acq: 21 Sep 2015 18:13

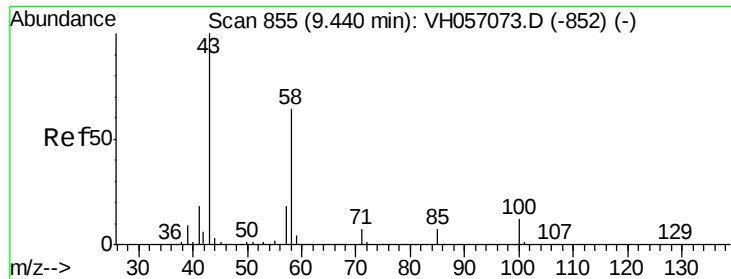
Tgt Ion: 63 Resp: 1098944

Ion Ratio Lower Upper

63 100

106 27.2 18.0 27.0#





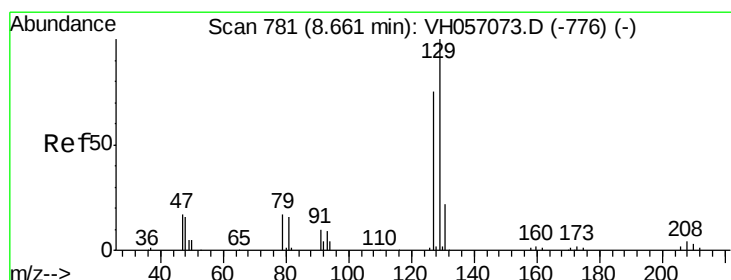
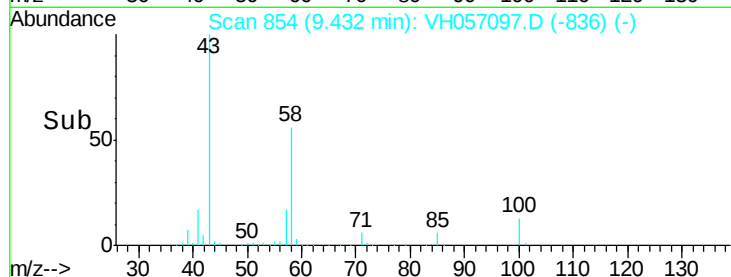
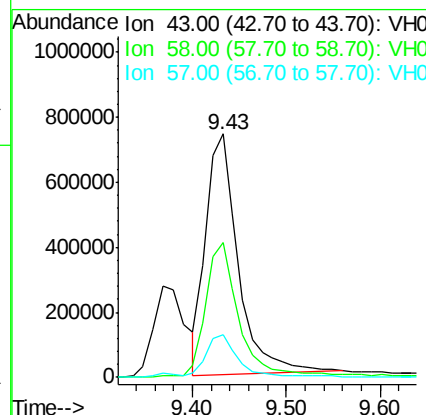
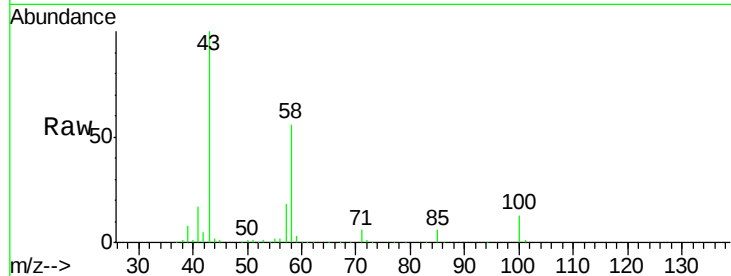
#59
2-Hexanone
Concen: 83.76 ug/l
RT: 9.43 min Scan# 854
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion: 43 Resp: 1768737
Ion Ratio Lower Upper
43 100
58 55.6 27.1 81.2
57 17.7 8.1 24.3

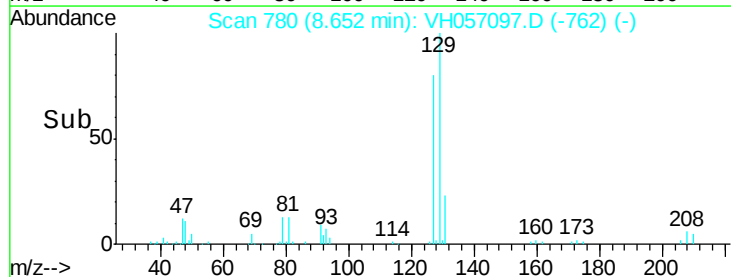
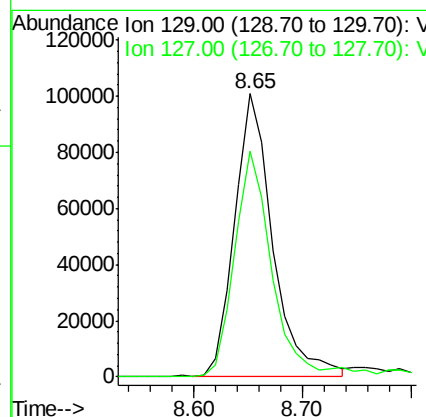
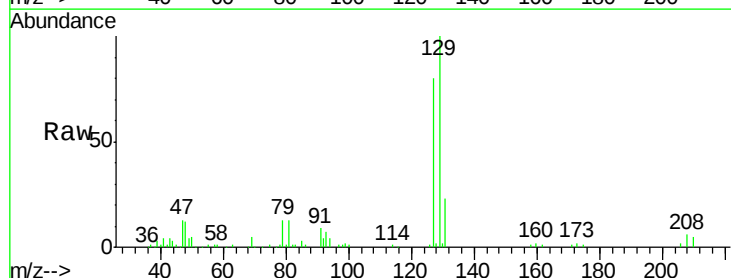
Manual Integrations
APPROVED

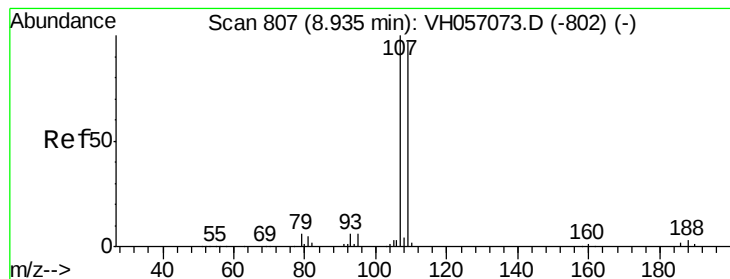
MMDadoda
9/22/2015 2:55:04 PM



#60
Dibromochloromethane
Concen: 18.46 ug/l
RT: 8.65 min Scan# 780
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion: 129 Resp: 246506
Ion Ratio Lower Upper
129 100
127 79.8 38.5 115.3





#61

1,2-Dibromoethane

Concen: 19.72 ug/l

RT: 8.92 min Scan# 805

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion:107 Resp: 267322

Ion Ratio Lower Upper

107 100

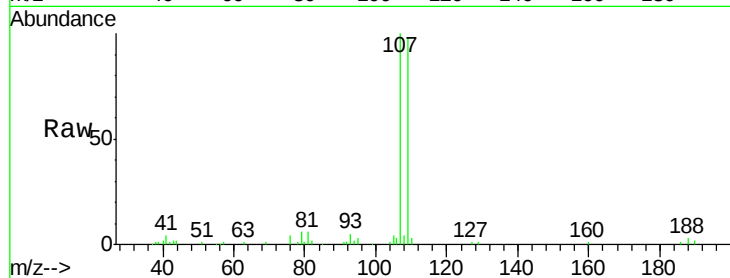
109 98.4 77.7 116.5

Manual Integrations

APPROVED

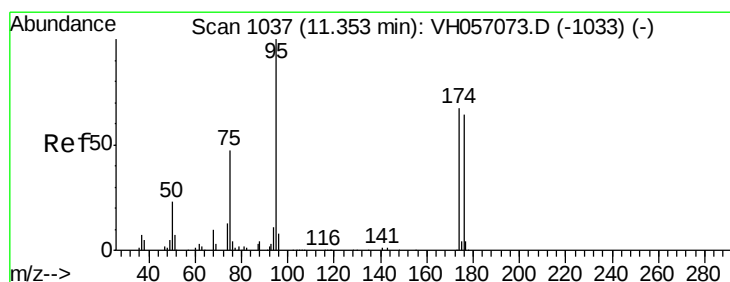
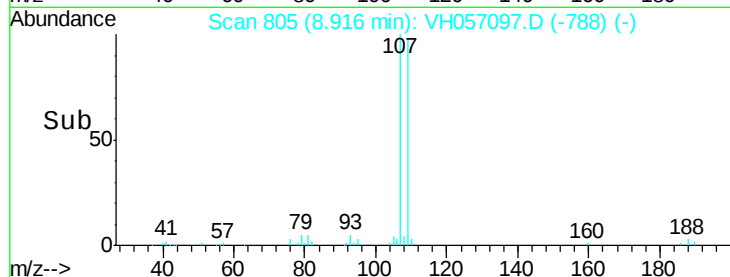
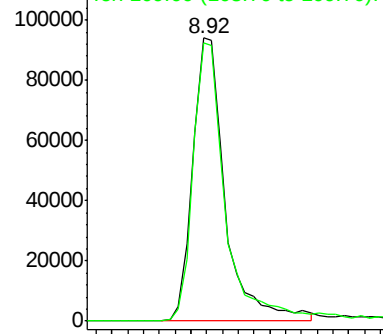
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.33 ug/l

RT: 11.35 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

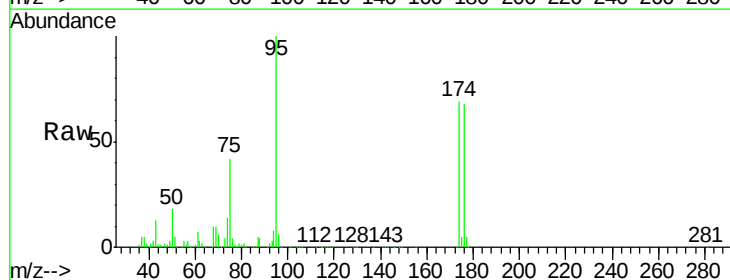
Tgt Ion: 95 Resp: 579781

Ion Ratio Lower Upper

95 100

174 68.8 58.4 87.6

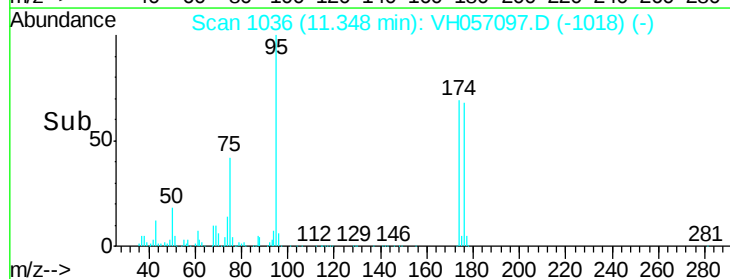
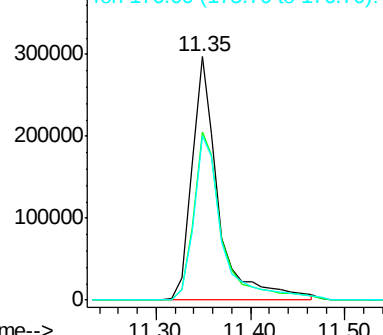
176 67.7 54.3 81.5

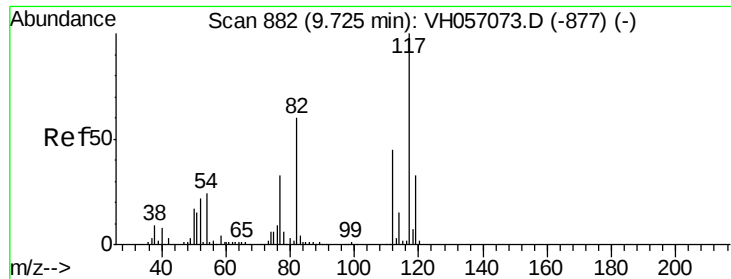


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





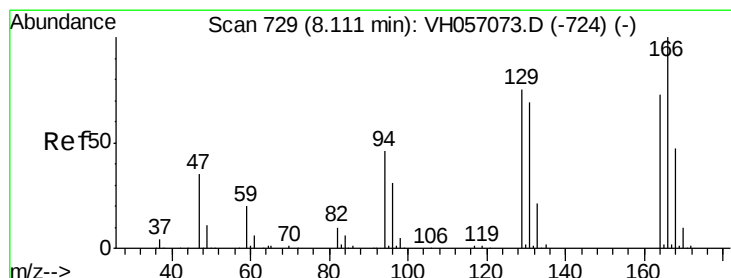
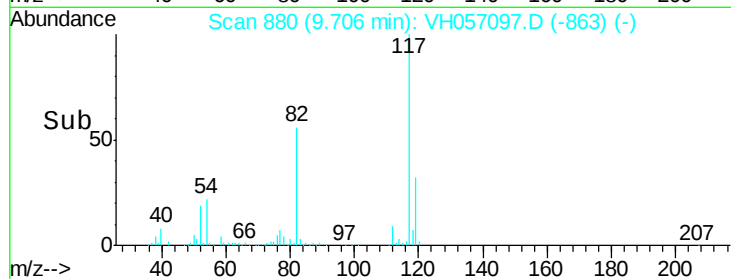
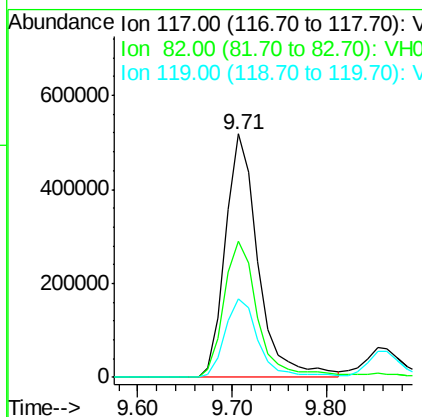
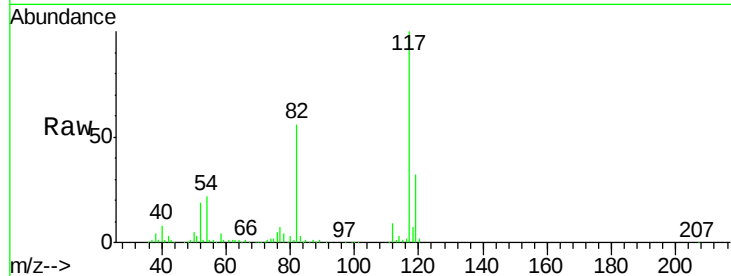
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.71 min Scan# 880
Delta R.T. -0.02 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion:117 Resp: 1252923
Ion Ratio Lower Upper
117 100
82 56.0 51.0 76.6
119 32.3 26.7 40.1

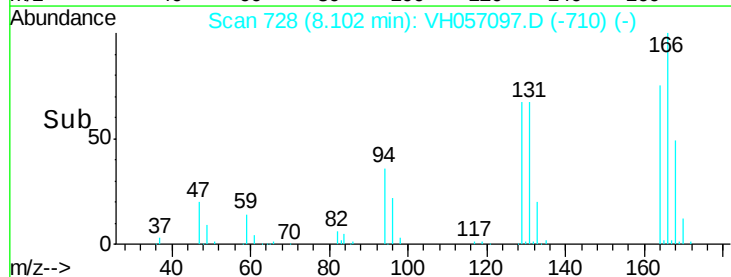
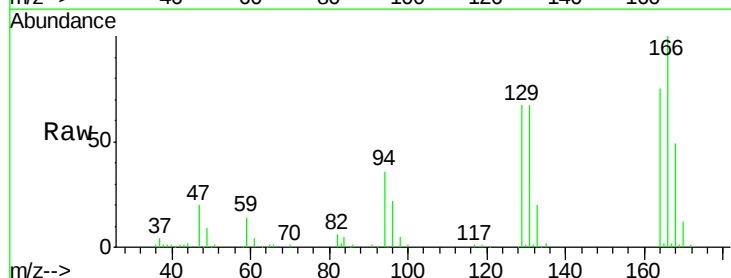
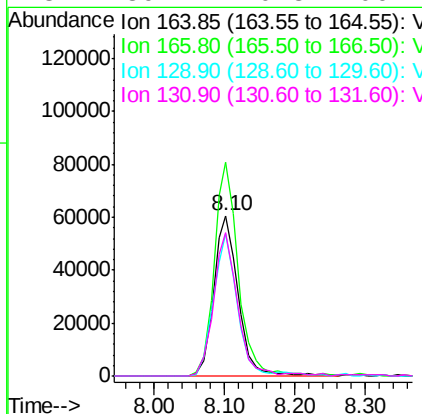
Manual Integrations
APPROVED

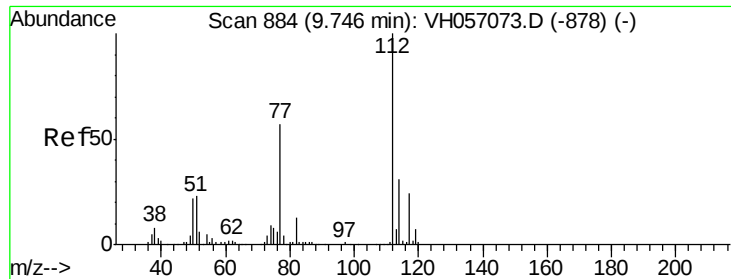
MMDadoda
9/22/2015 2:55:04 PM



#64
Tetrachloroethene
Concen: 20.76 ug/l
RT: 8.10 min Scan# 728
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion:164 Resp: 147362
Ion Ratio Lower Upper
164 100
166 133.3 103.2 154.8
129 88.7 73.4 110.0
131 89.2 70.8 106.2





#65

Chlorobenzene

Concen: 18.89 ug/l

RT: 9.73 min Scan# 882

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion:112 Resp: 514871

Ion Ratio Lower Upper

112 100

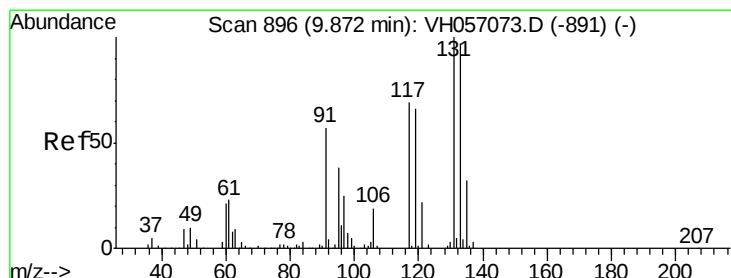
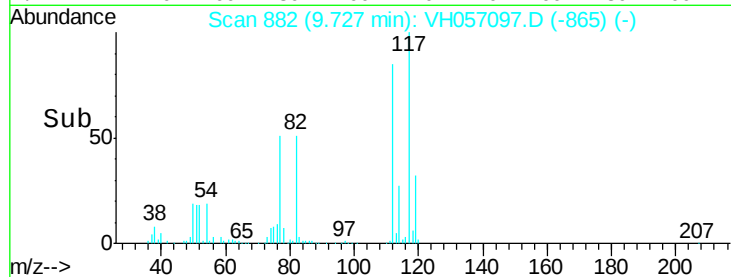
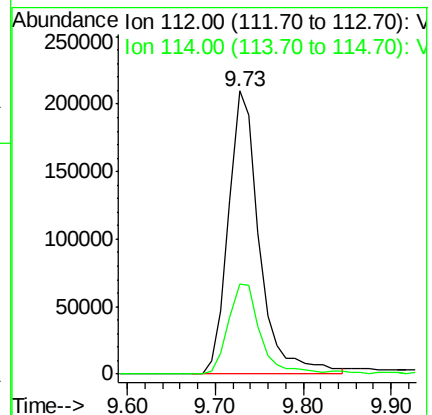
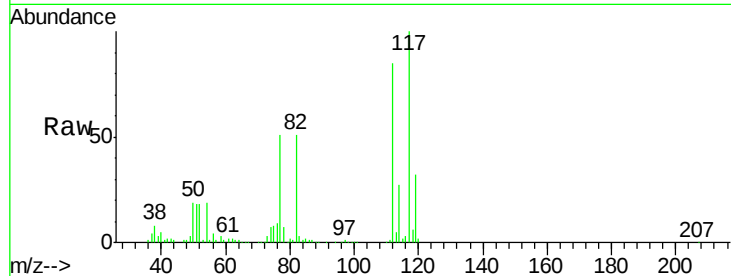
114 31.7 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.22 ug/l

RT: 9.86 min Scan# 895

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

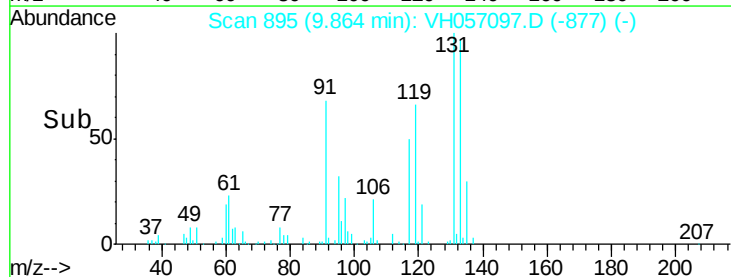
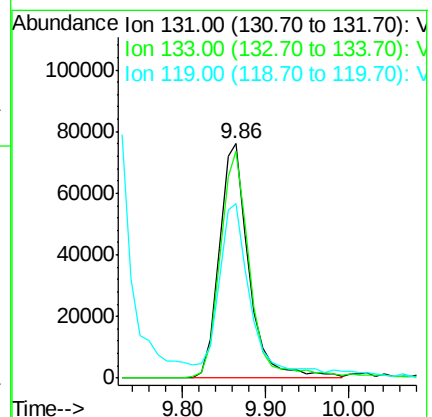
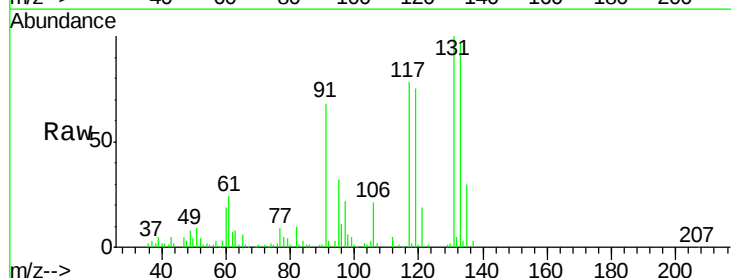
Tgt Ion:131 Resp: 190214

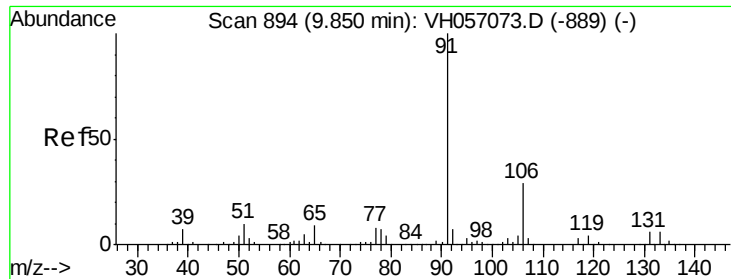
Ion Ratio Lower Upper

131 100

133 96.8 51.1 153.3

119 74.6 36.3 108.9





#67

Ethyl Benzene

Concen: 18.68 ug/l

RT: 9.83 min Scan# 892

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion:106 Resp: 243700

Ion Ratio Lower Upper

106 100

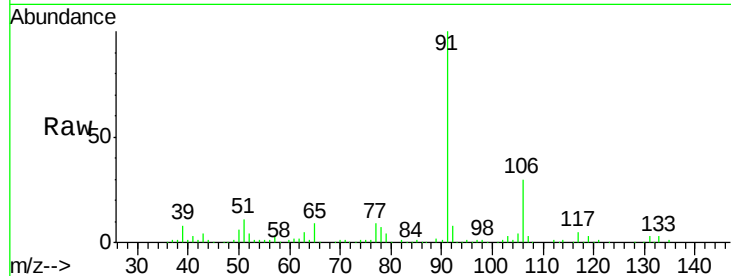
91 332.2 264.9 397.3

Manual Integrations

APPROVED

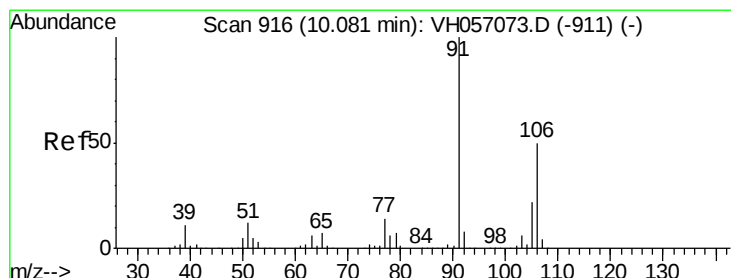
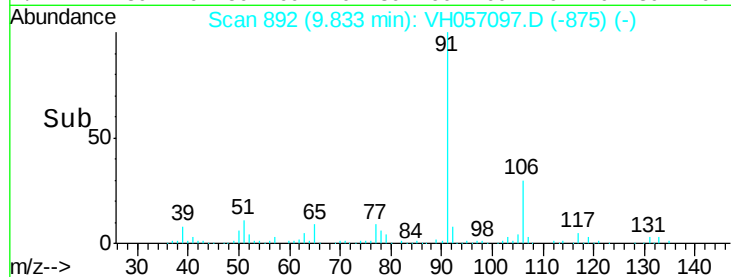
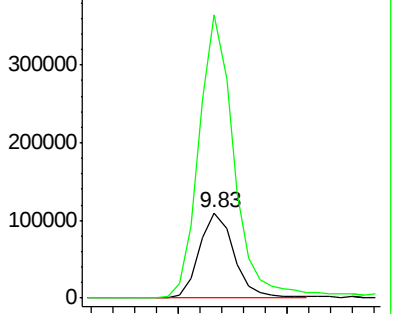
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VH0



#68

m/p-Xylenes

Concen: 37.98 ug/l

RT: 10.06 min Scan# 914

Delta R.T. -0.02 min

Lab File: VH057097.D

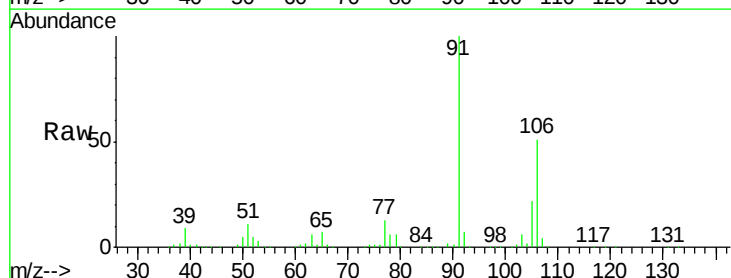
Acq: 21 Sep 2015 18:13

Tgt Ion:106 Resp: 602921

Ion Ratio Lower Upper

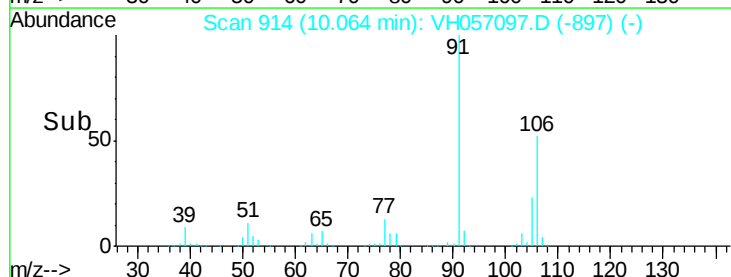
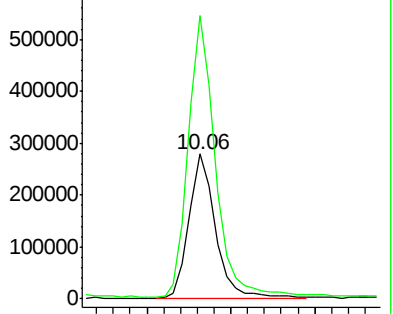
106 100

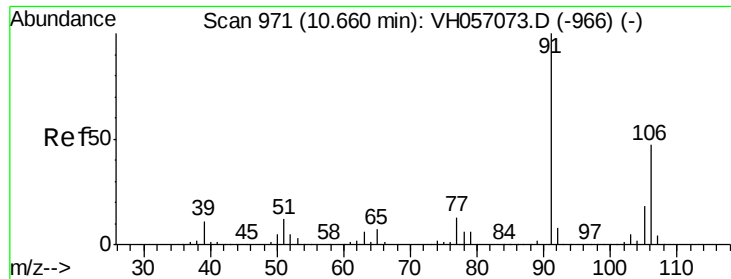
91 195.8 164.4 246.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VH0





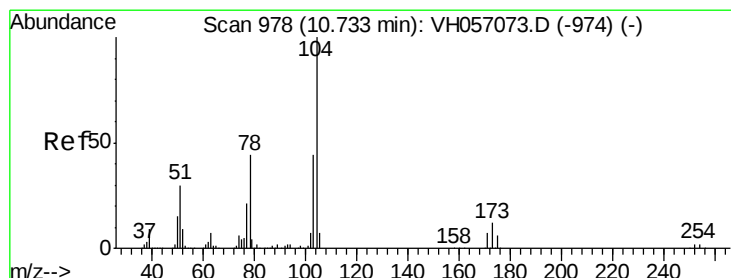
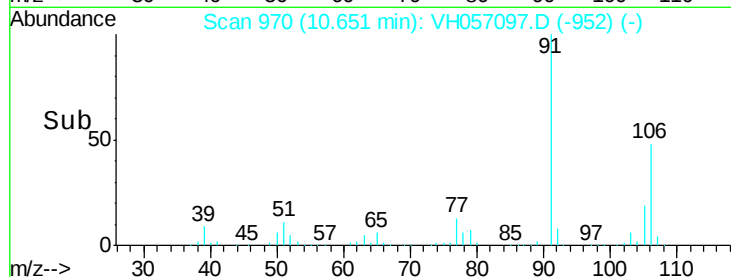
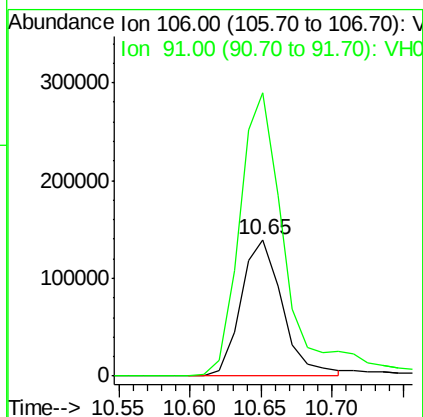
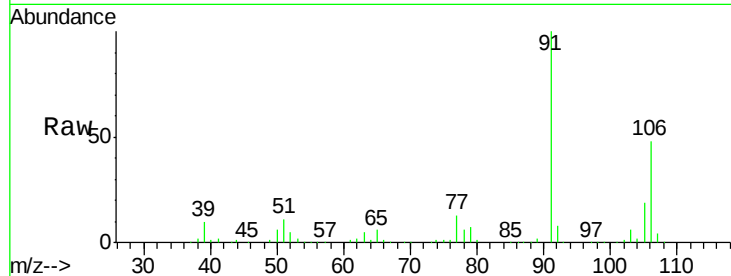
#69
o-Xylene
Concen: 18.91 ug/l
RT: 10.65 min Scan# 970
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion:106 Resp: 288165
Ion Ratio Lower Upper
106 100
91 207.8 104.2 312.6

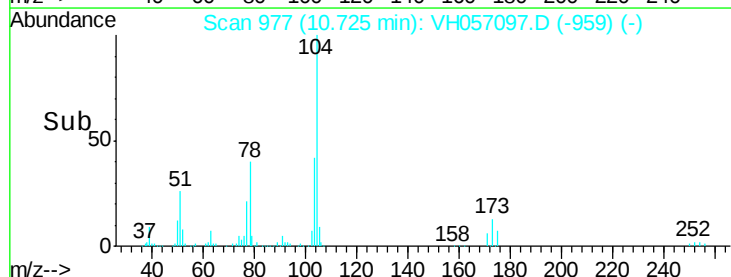
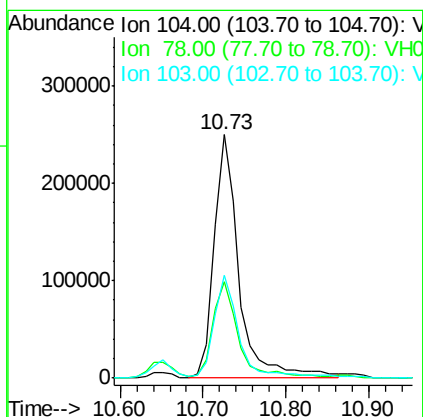
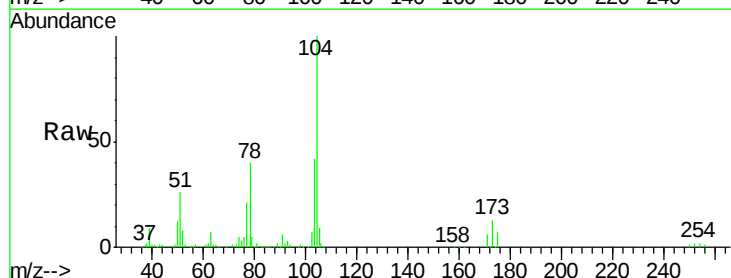
Manual Integrations
APPROVED

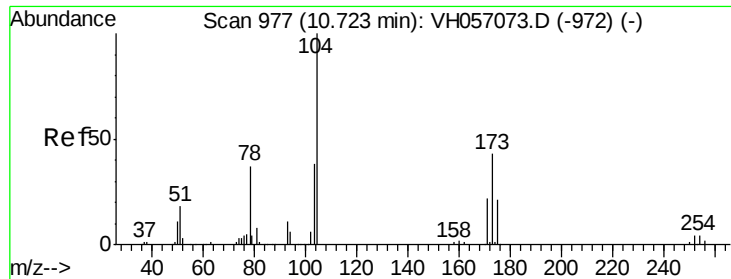
MMDadoda
9/22/2015 2:55:04 PM



#70
Styrene
Concen: 19.42 ug/l
RT: 10.73 min Scan# 977
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion:104 Resp: 517018
Ion Ratio Lower Upper
104 100
78 39.8 35.2 52.8
103 42.4 35.8 53.6





#71

Bromoform

Concen: 19.65 ug/l

RT: 10.70 min Scan# 975

Delta R.T. -0.02 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

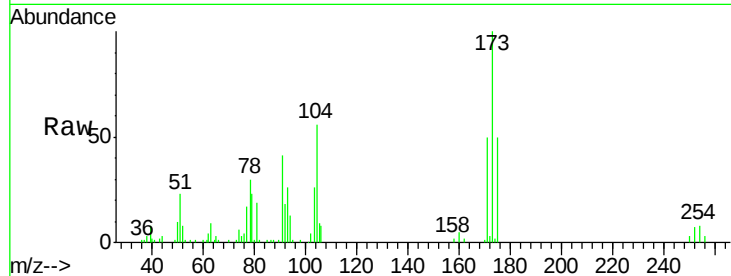
ClientSampleId :

VH0921MBSD01

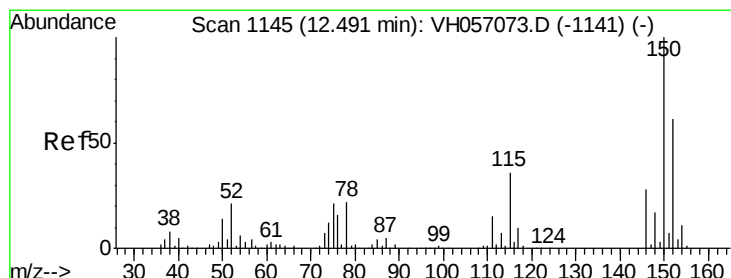
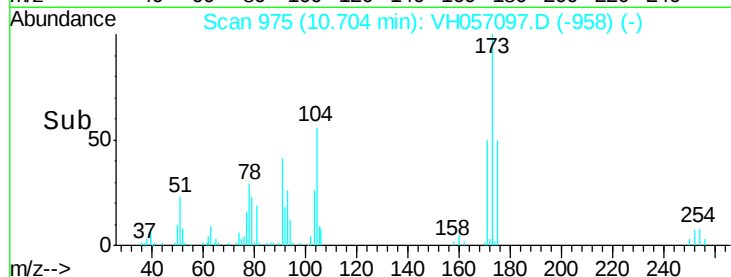
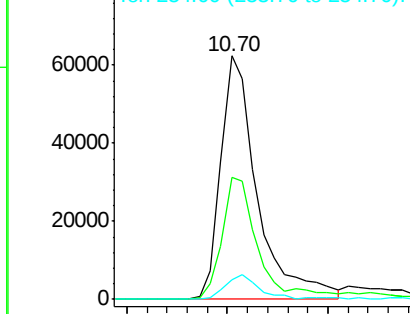
Tot Ion:	173	Resp:	158179
Ion Ratio	Lower	Upper	
173	100		
175	49.9	23.3	69.9
254	8.2	4.4	13.2

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

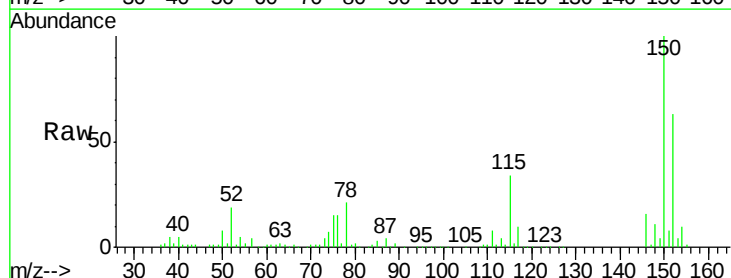
RT: 12.49 min Scan# 1144

Delta R.T. -0.01 min

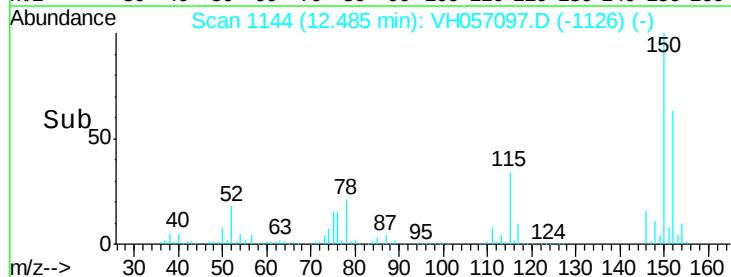
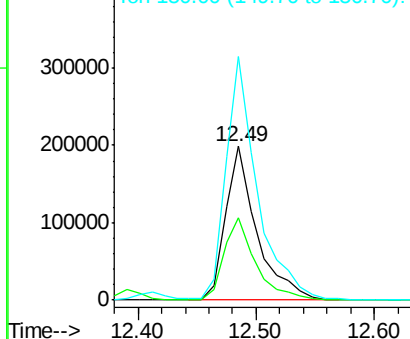
Lab File: VH057097.D

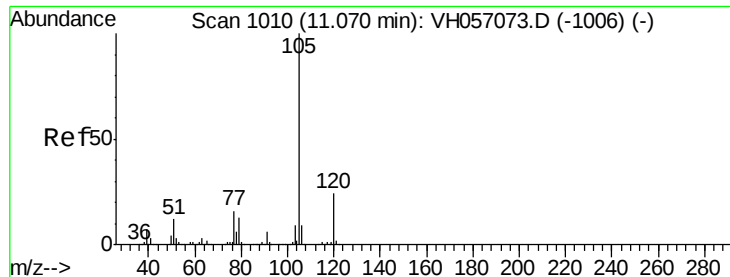
Acq: 21 Sep 2015 18:13

Tgt Ion:	152	Resp:	364873
Ion Ratio	Lower	Upper	
152	100		
115	53.6	28.2	84.6
150	158.5	0.0	332.0



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 18.17 ug/l

RT: 11.06 min Scan# 1009

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion:105 Resp: 605524

Ion Ratio Lower Upper

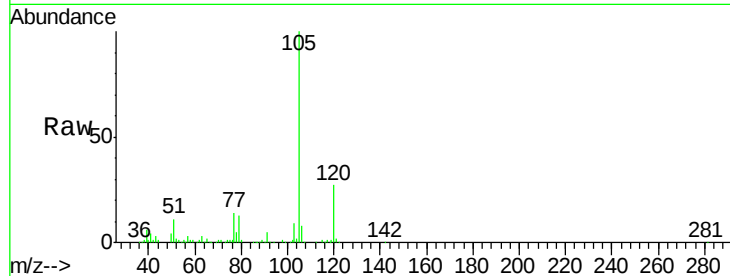
105 100

120 26.7 12.2 36.4

Manual Integrations
APPROVED

MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.06

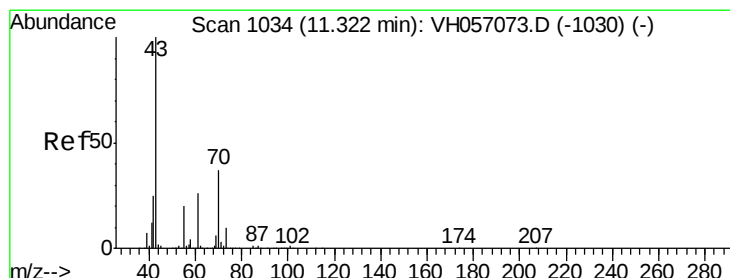
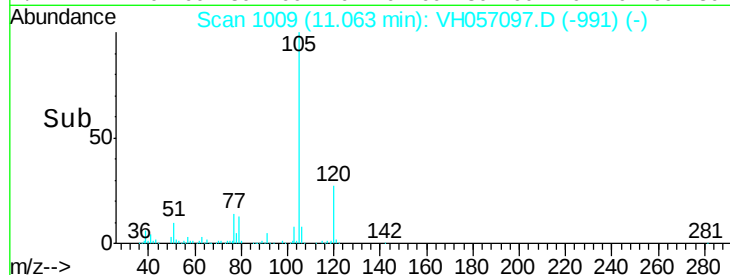
300000

200000

100000

0

Time-->



#74

n-Amyl Acetate

Concen: 17.30 ug/l

RT: 11.32 min Scan# 1033

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tgt Ion: 43 Resp: 612639

Ion Ratio Lower Upper

43 100

70 39.1 27.3 40.9

55 20.8 15.3 22.9

61 27.6 19.4 29.0

Abundance Ion 43.05 (42.75 to 43.75): V

Ion 70.05 (69.75 to 70.75): V

Ion 55.05 (54.75 to 55.75): V

Ion 61.00 (60.70 to 61.70): V

11.32

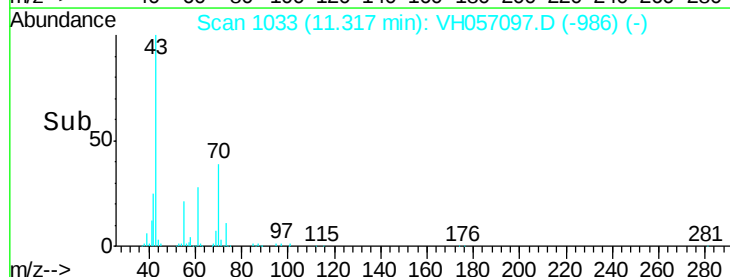
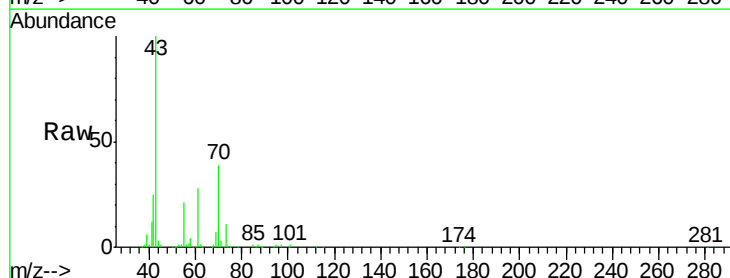
300000

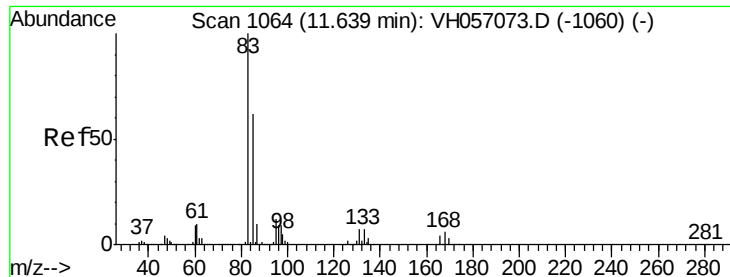
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.89 ug/l

RT: 11.63 min Scan# 1063

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 83 Resp: 347462
Ion Ratio Lower Upper

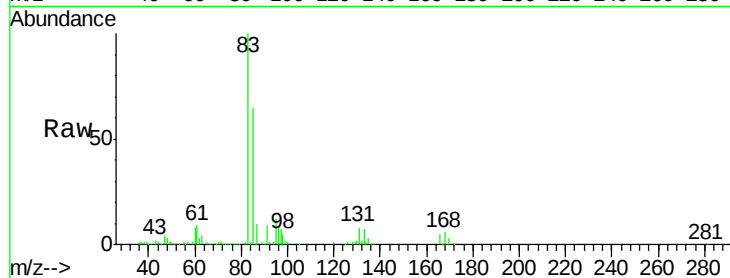
83 100

131 8.1 3.1 9.3

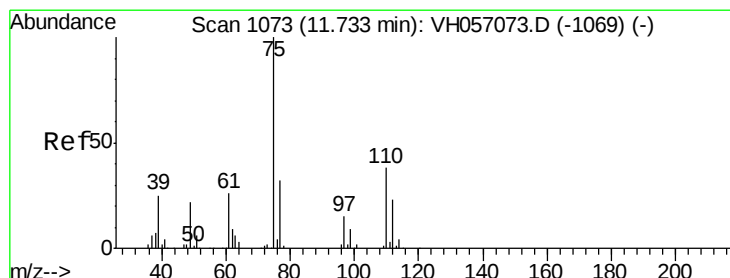
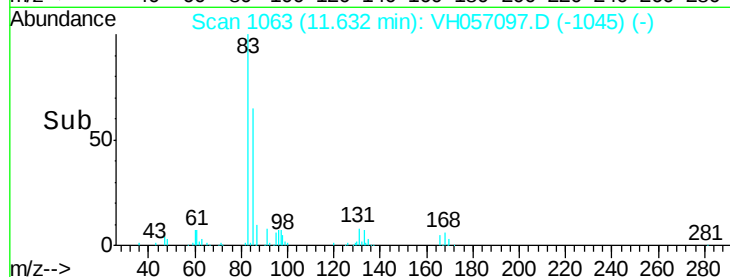
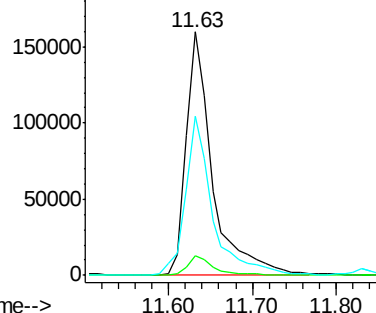
85 65.3 32.3 96.8

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



Abundance Ion 83.00 (82.70 to 83.70): VH0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VH0



#76

1,2,3-Trichloropropane

Concen: 18.91 ug/l

RT: 11.73 min Scan# 1072

Delta R.T. -0.01 min

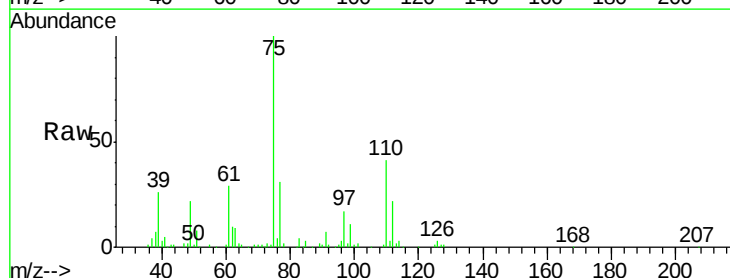
Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

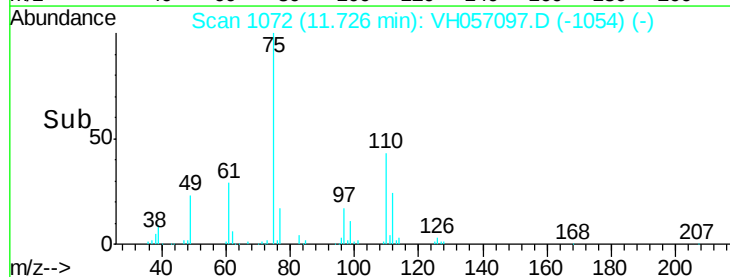
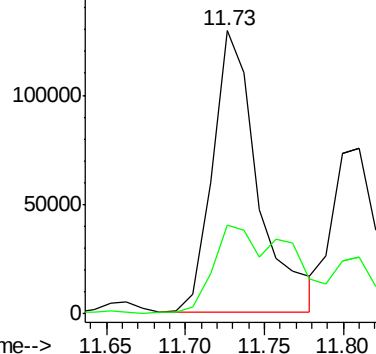
Tgt Ion: 75 Resp: 259182
Ion Ratio Lower Upper

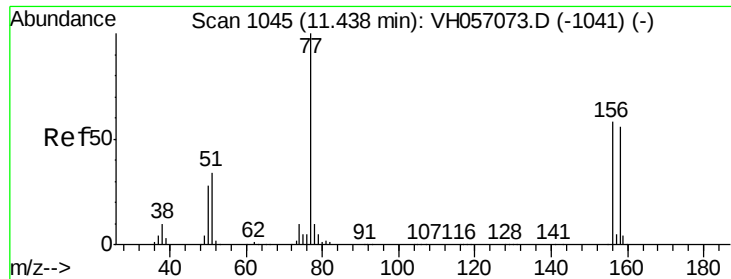
75 100

77 31.4 14.9 44.9



Abundance Ion 75.00 (74.70 to 75.70): VH0
Ion 77.00 (76.70 to 77.70): VH0





#77

Bromobenzene

Concen: 20.11 ug/l

RT: 11.43 min Scan# 1044

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

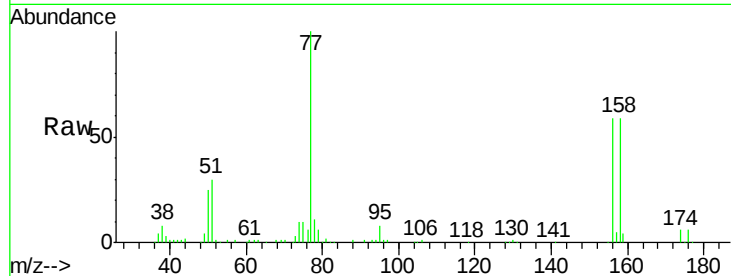
ClientSampleId :

VH0921MBSD01

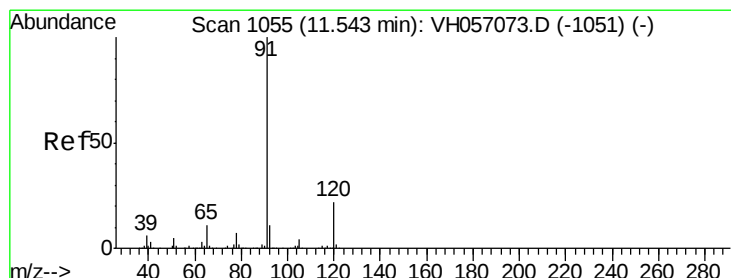
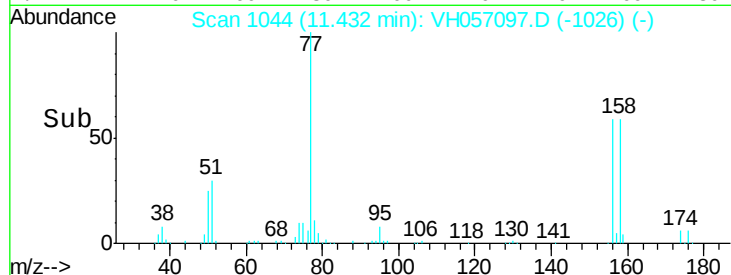
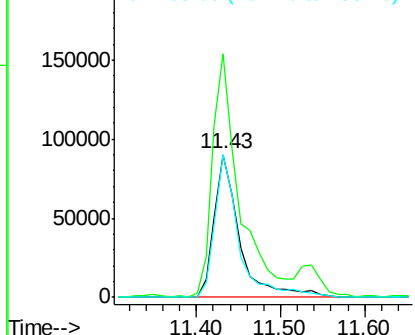
Tot Ion:	156	Resp:	190712
Ion Ratio	Lower	Upper	
156	100		
77	170.1	73.5	220.5
158	99.7	46.8	140.3

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VH
Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 17.79 ug/l

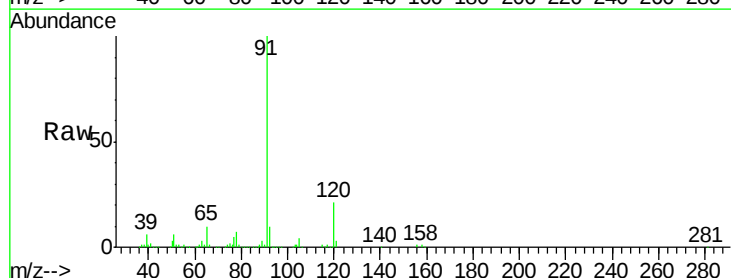
RT: 11.54 min Scan# 1054

Delta R.T. -0.01 min

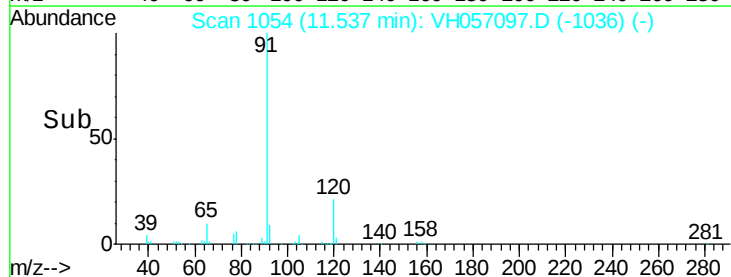
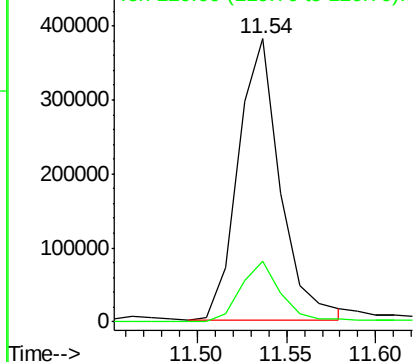
Lab File: VH057097.D

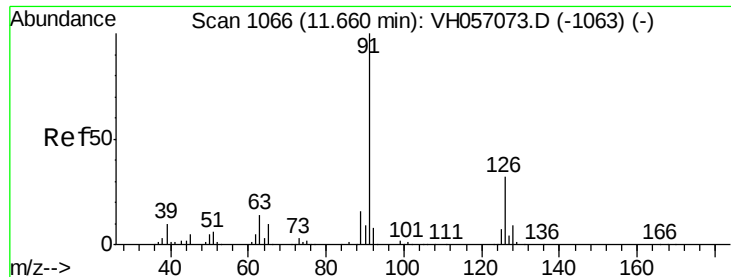
Acq: 21 Sep 2015 18:13

Tgt Ion:	91	Resp:	633878
Ion Ratio	Lower	Upper	
91	100		
120	21.3	10.2	30.6



Abundance Ion 91.00 (90.70 to 91.70): VH
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 17.51 ug/l

RT: 11.65 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion: 91 Resp: 376236

Ion Ratio Lower Upper

91 100

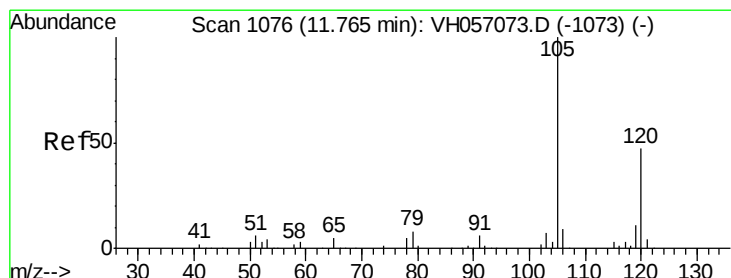
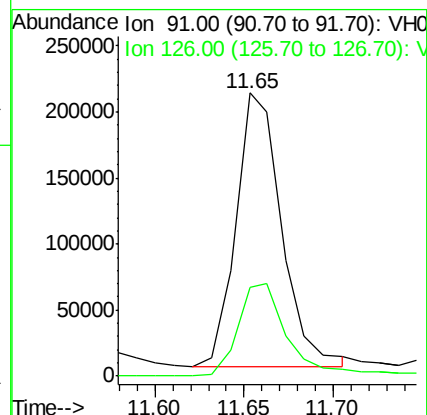
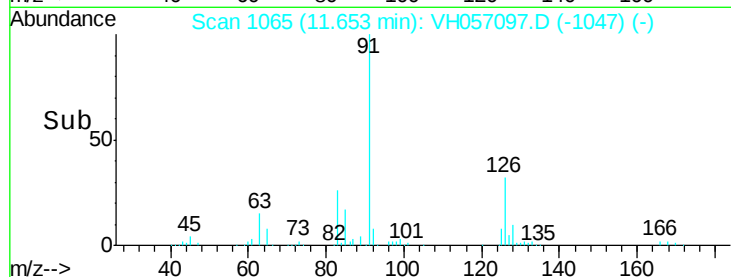
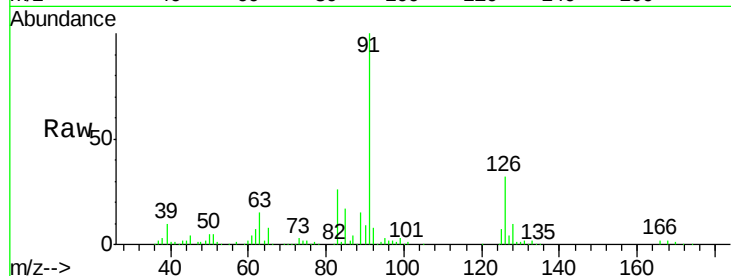
126 31.6 16.3 48.9

Manual Integrations

APPROVED

MMDadoda

9/22/2015 2:55:04 PM



#80

1,3,5-Trimethylbenzene

Concen: 18.14 ug/l

RT: 11.77 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VH057097.D

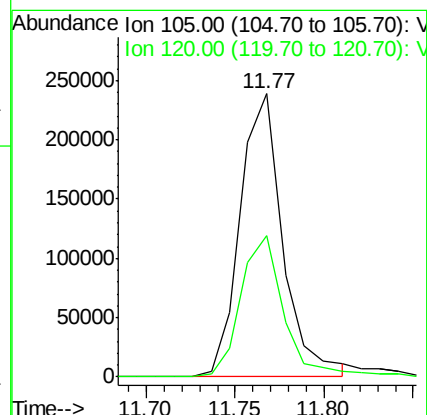
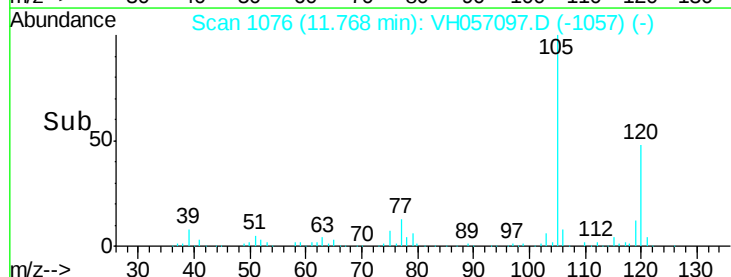
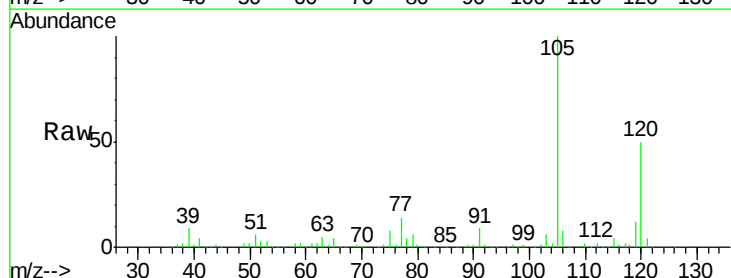
Acq: 21 Sep 2015 18:13

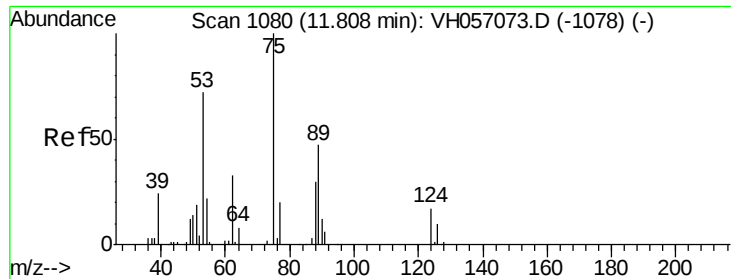
Tgt Ion:105 Resp: 394917

Ion Ratio Lower Upper

105 100

120 50.0 23.6 71.0





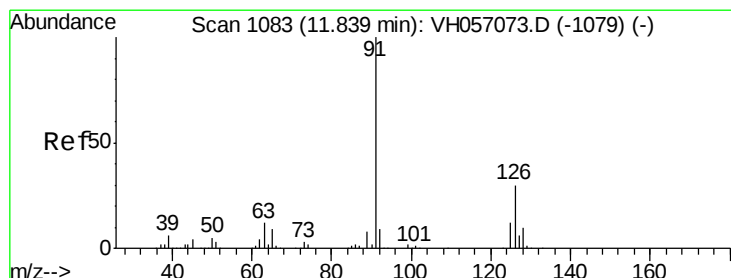
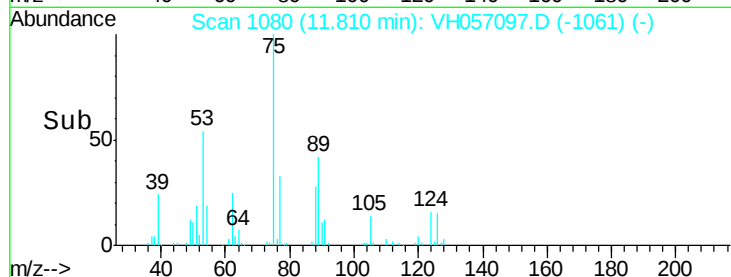
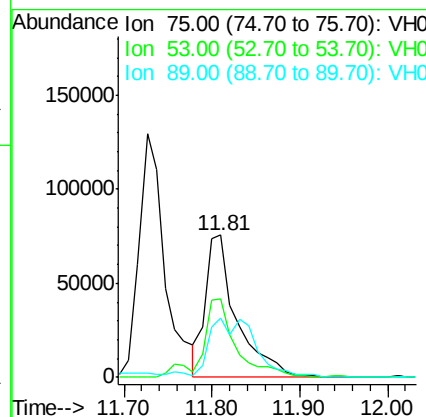
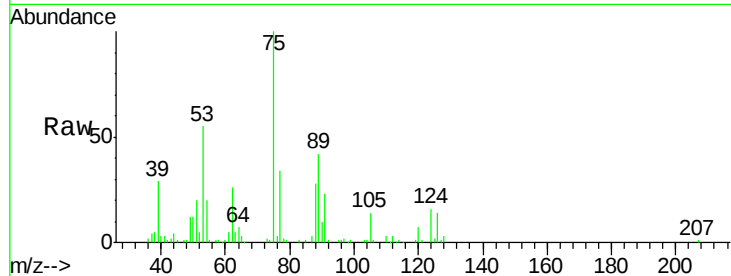
#81
trans-1,4-Dichloro-2-Butene
Concen: 18.93 ug/l
RT: 11.81 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	55.2	32.0	96.2
89	42.0	21.1	63.3

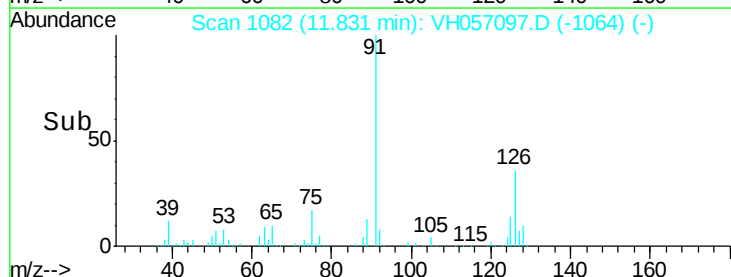
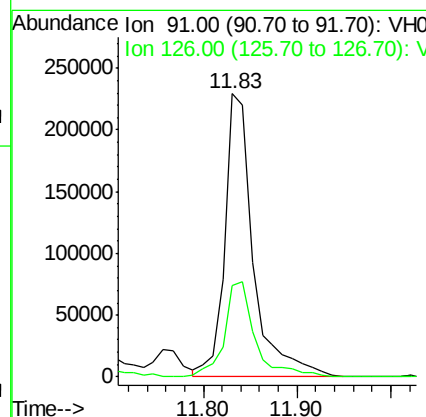
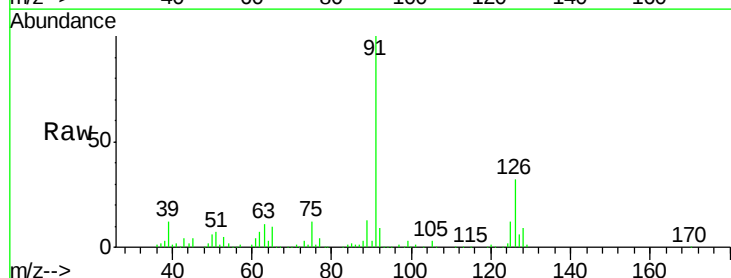
Manual Integrations
APPROVED

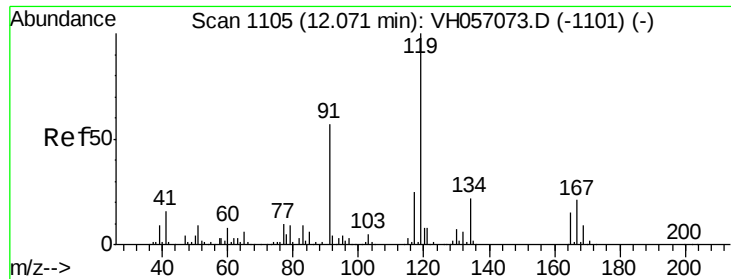
MMDadoda
9/22/2015 2:55:04 PM



#82
4-Chlorotoluene
Concen: 18.46 ug/l
RT: 11.83 min Scan# 1082
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.4	17.0	51.0





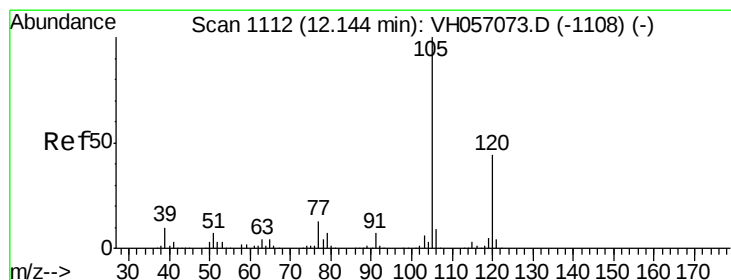
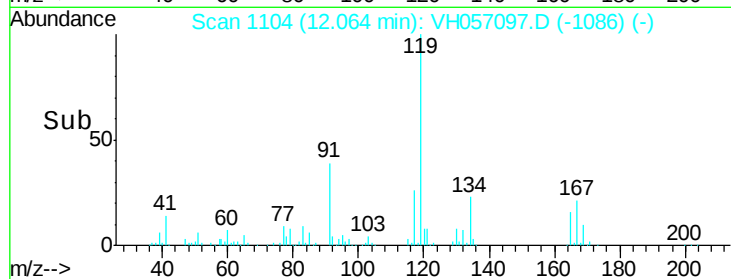
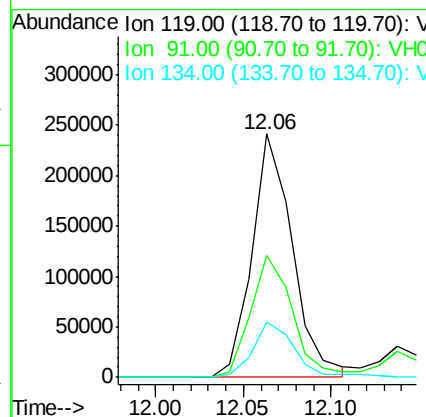
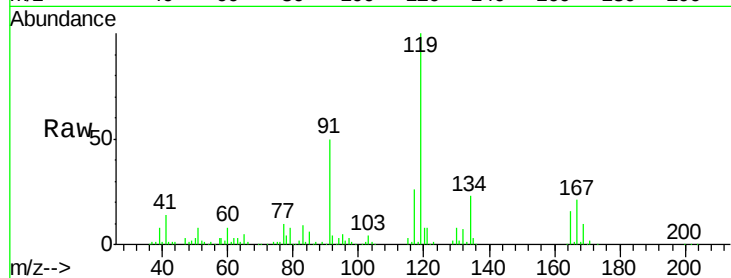
#83
tert-Butylbenzene
Concen: 18.70 ug/l
RT: 12.06 min Scan# 1104
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	384432		
91	50.2	28.5	85.6	
134	22.8	11.5	34.5	

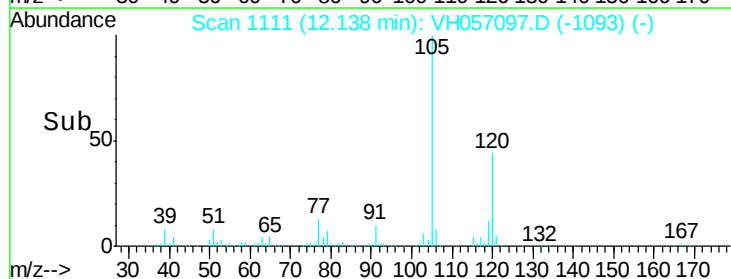
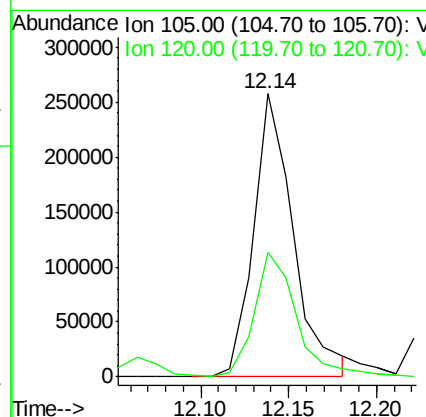
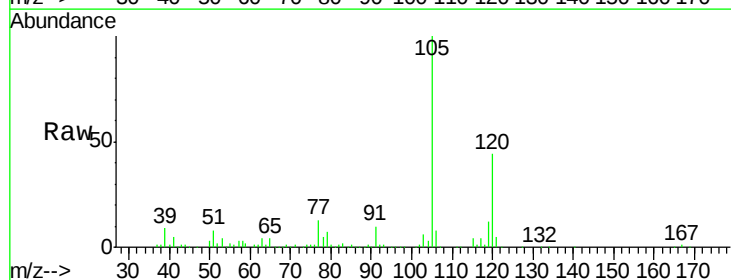
Manual Integrations
APPROVED

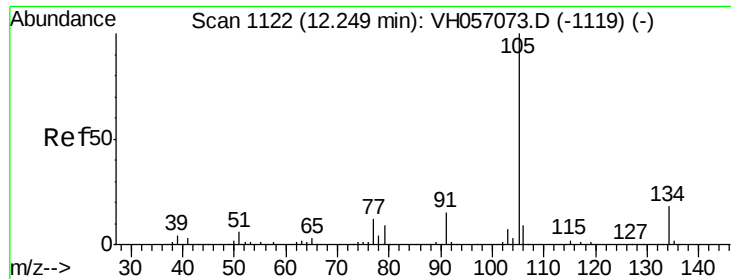
MMDadoda
9/22/2015 2:55:04 PM



#84
1,2,4-Trimethylbenzene
Concen: 18.01 ug/l
RT: 12.14 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	404791		
120	44.1	22.6	67.7	





#85

sec-Butylbenzene

Concen: 17.98 ug/l

RT: 12.24 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

ClientSampleId :

VH0921MBSD01

Tot Ion:105 Resp: 395377

Ion Ratio Lower Upper

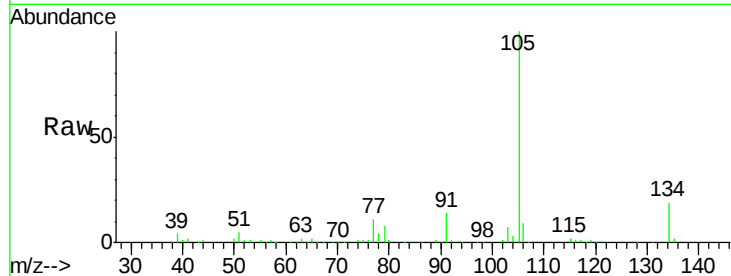
105 100

134 19.1 9.1 27.3

Manual Integrations
APPROVED

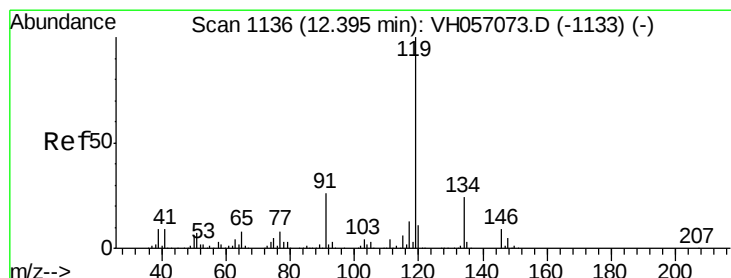
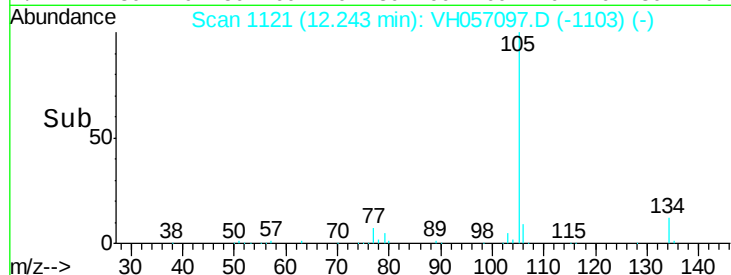
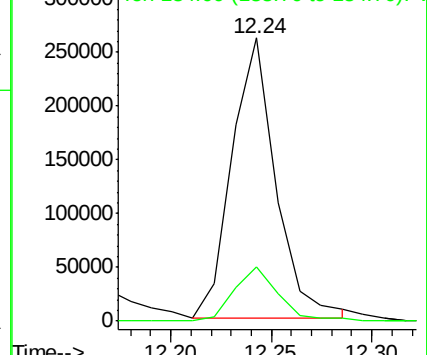
MMDadoda

9/22/2015 2:55:04 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.20 ug/l

RT: 12.39 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

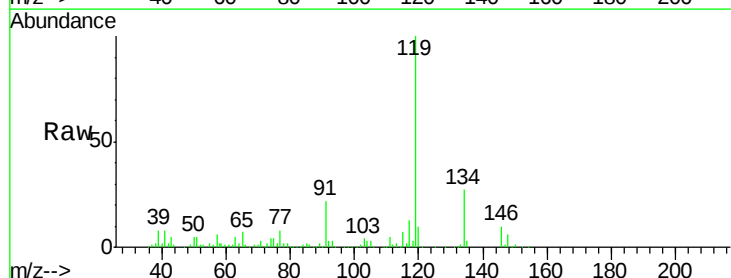
Tgt Ion:119 Resp: 320485

Ion Ratio Lower Upper

119 100

134 26.8 13.0 38.9

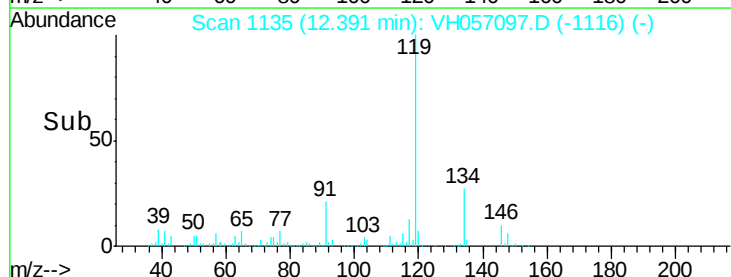
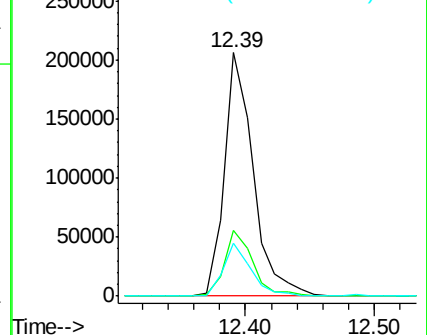
91 21.8 12.5 37.5

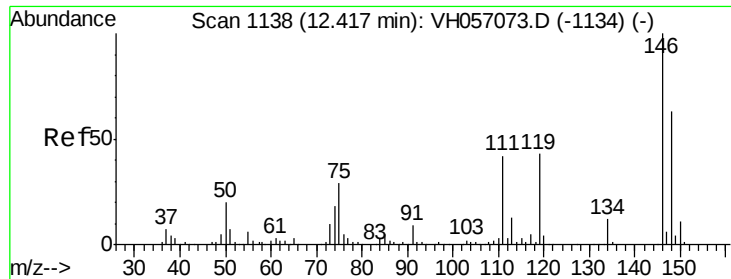


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





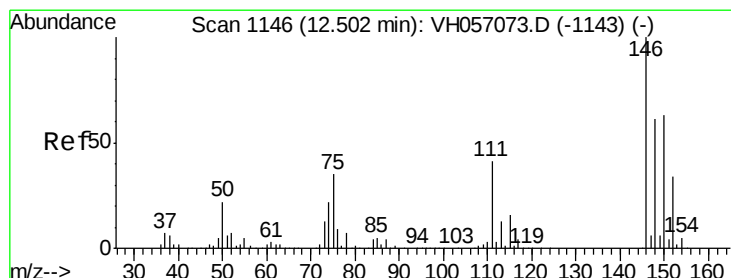
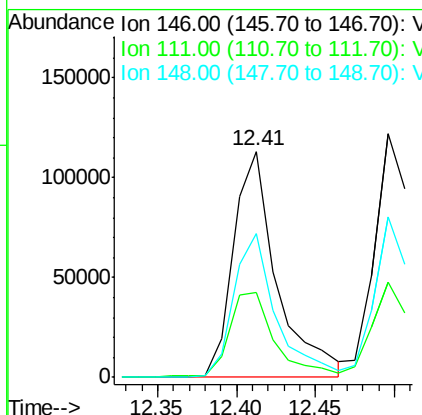
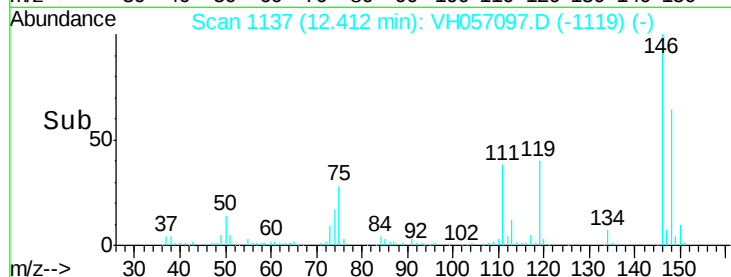
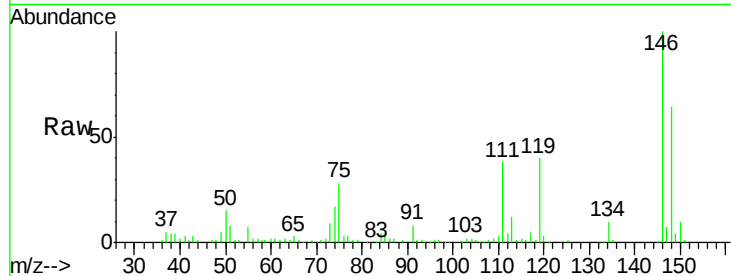
#87
 1,3-Dichlorobenzene
 Concen: 18.99 ug/l
 RT: 12.41 min Scan# 1137
 Delta R.T. -0.00 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Instrument :
 MSVOA_H
 ClientSampleId :
 VH0921MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	21.0	63.0
148	63.9	31.6	94.7

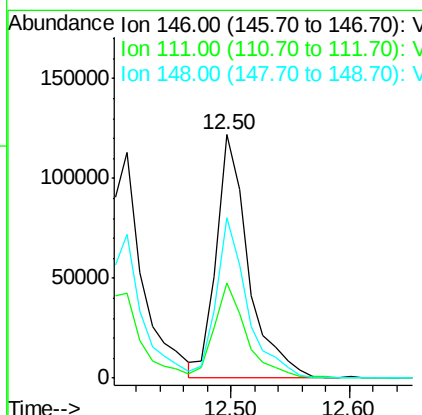
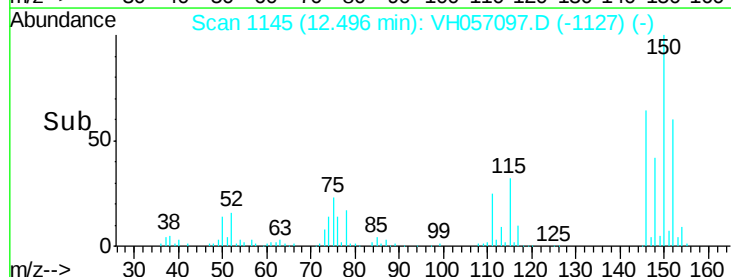
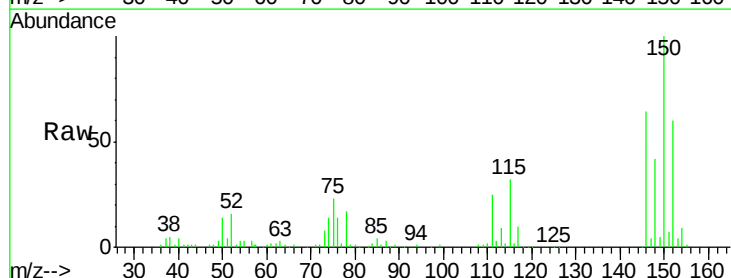
Manual Integrations
 APPROVED

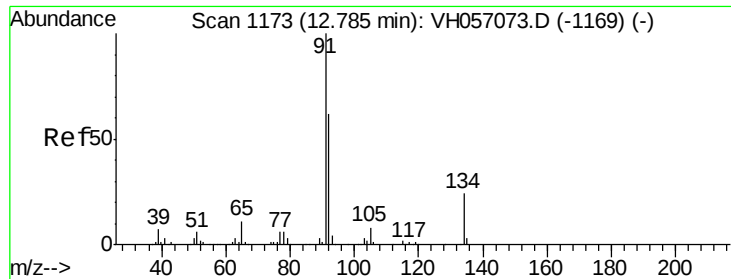
MMDadoda
 9/22/2015 2:55:04 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.81 ug/l
 RT: 12.50 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.8	59.3
148	65.7	30.3	90.9





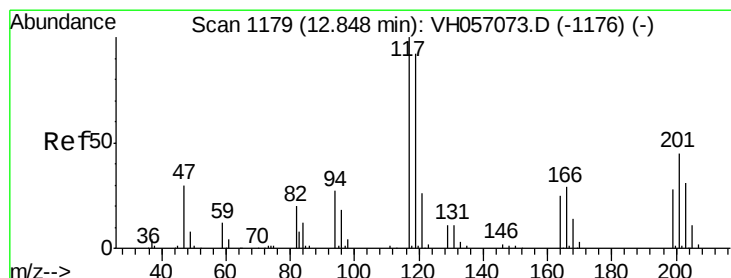
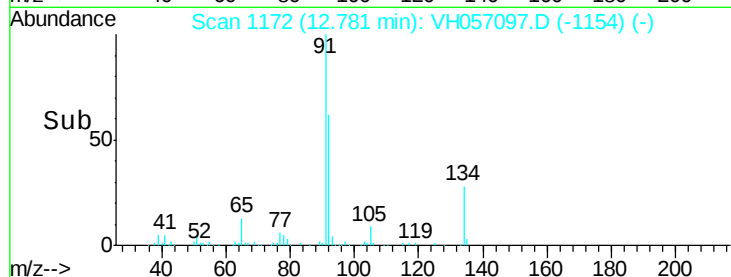
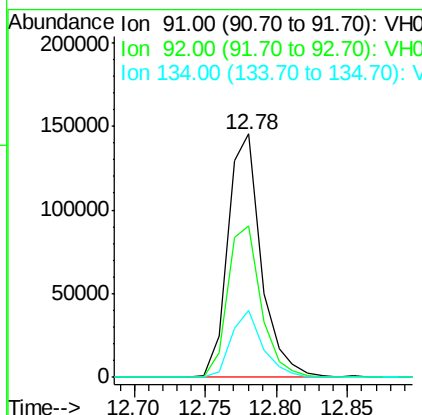
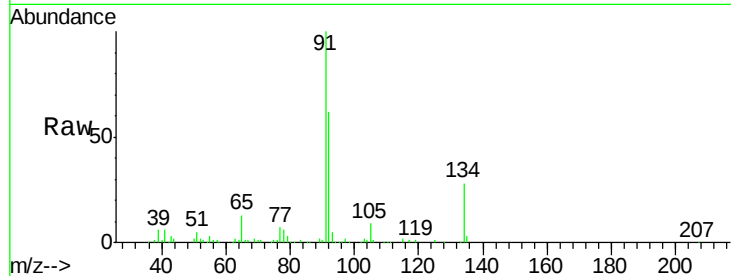
#89
n-Butylbenzene
Concen: 17.88 ug/l
RT: 12.78 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Instrument :
MSVOA_H
ClientSampleId :
VH0921MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	238608		
92	62.4		31.3	93.9
134	27.7		10.5	31.6

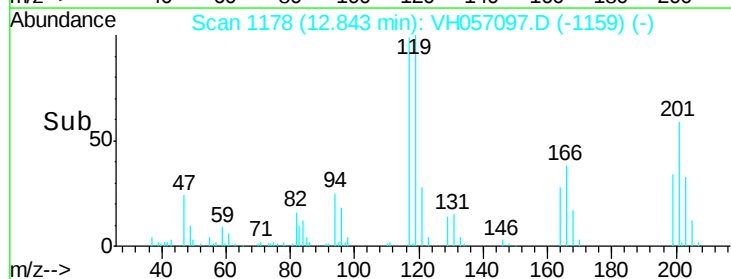
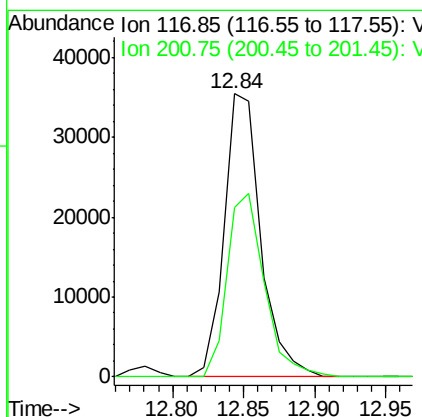
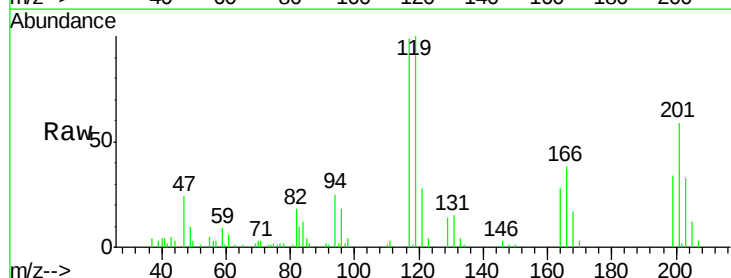
Manual Integrations
APPROVED

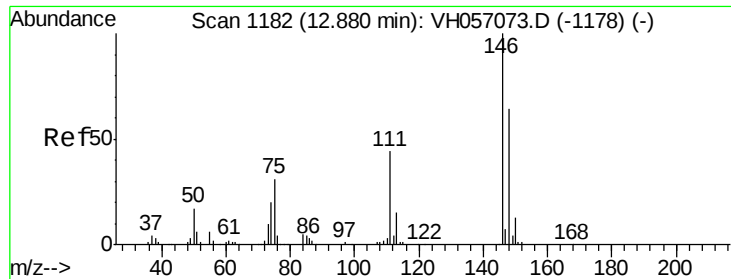
MMDadoda
9/22/2015 2:55:04 PM



#90
Hexachloroethane
Concen: 18.12 ug/l
RT: 12.84 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VH057097.D
Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	64036		
201	59.8		14.0	80.8





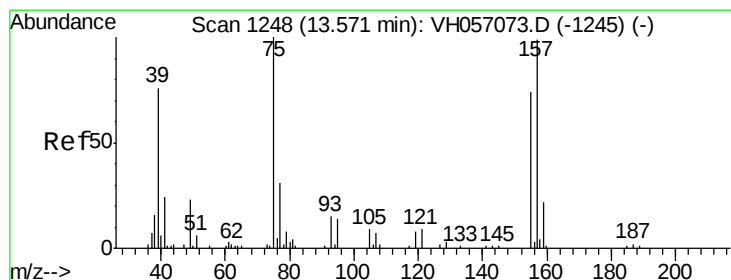
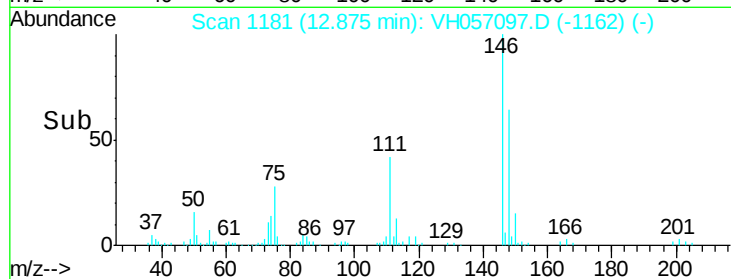
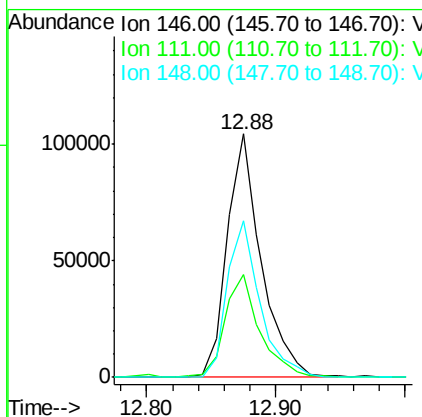
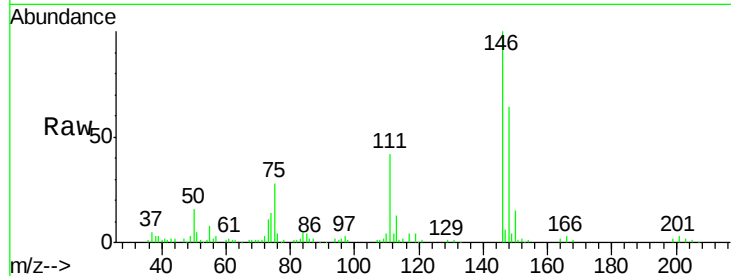
#91
 1,2-Dichlorobenzene
 Concen: 19.01 ug/l
 RT: 12.88 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Instrument :
 MSVOA_H
 ClientSampleId :
 VH0921MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	193825		
111	42.2	22.1	66.1	
148	64.4	31.4	94.3	

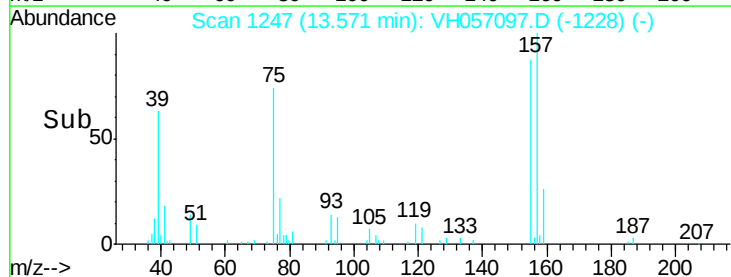
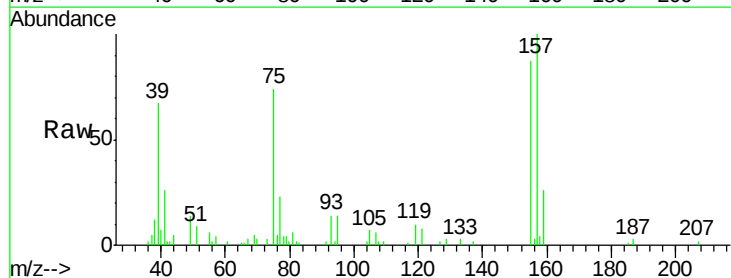
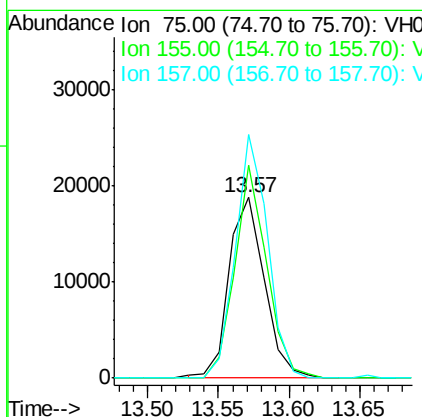
Manual Integrations
 APPROVED

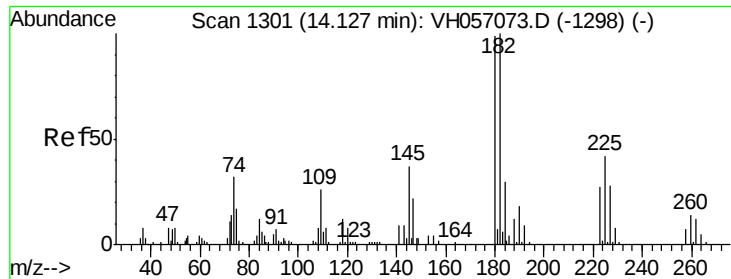
MMDadoda
 9/22/2015 2:55:04 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.70 ug/l
 RT: 13.57 min Scan# 1247
 Delta R.T. -0.00 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	32721		
155	117.5	43.4	130.2	
157	134.7	62.8	188.4	





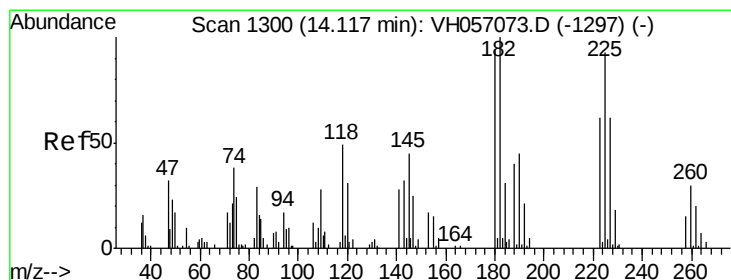
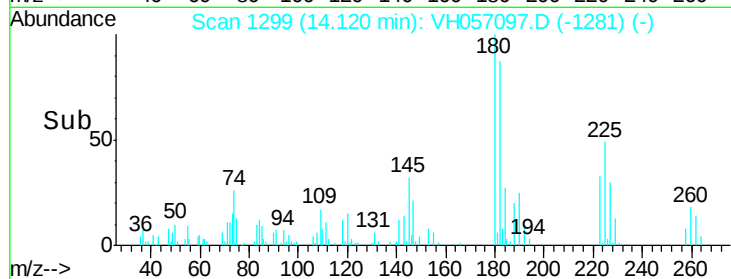
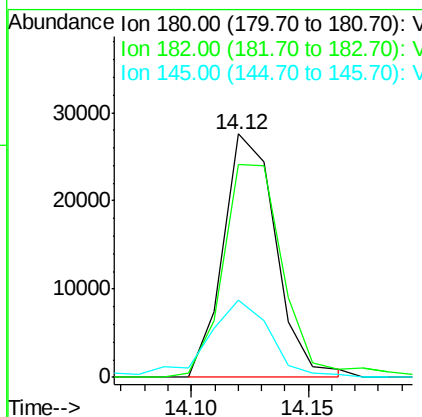
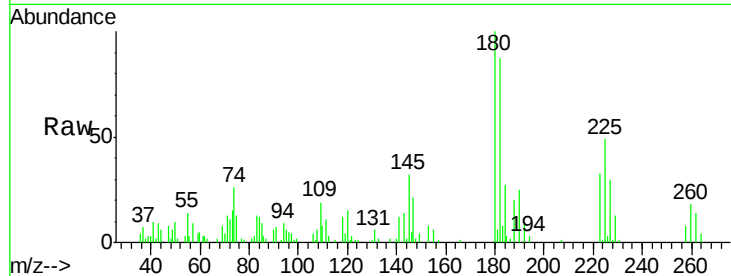
#93
 1,2,4-Trichlorobenzene
 Concen: 21.26 ug/l
 RT: 14.12 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Instrument :
 MSVOA_H
 ClientSampleId :
 VH0921MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	43263		
182	87.5	43.0	129.2	
145	31.7	17.3	52.0	

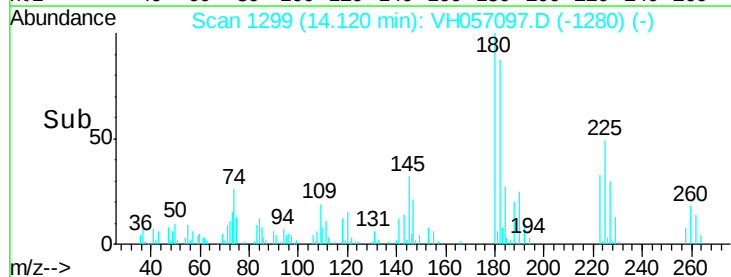
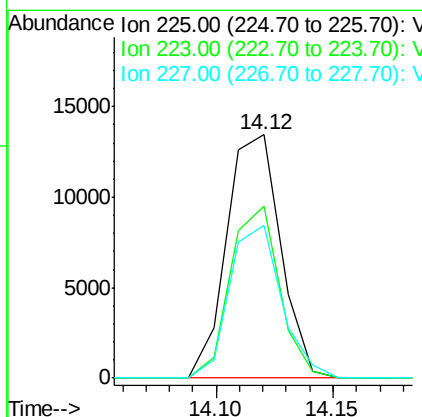
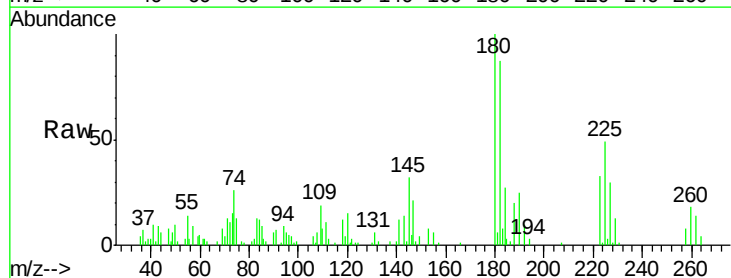
Manual Integrations
 APPROVED

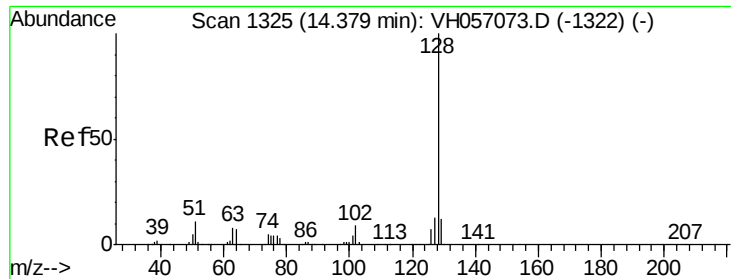
MMDadoda
 9/22/2015 2:55:04 PM



#94
 Hexachlorobutadiene
 Concen: 20.45 ug/l
 RT: 14.12 min Scan# 1299
 Delta R.T. 0.00 min
 Lab File: VH057097.D
 Acq: 21 Sep 2015 18:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	21568		
223	70.8	30.3	90.8	
227	65.2	30.5	91.5	





#95

Naphthalene

Concen: 23.60 ug/l

RT: 14.37 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Instrument :

MSVOA_H

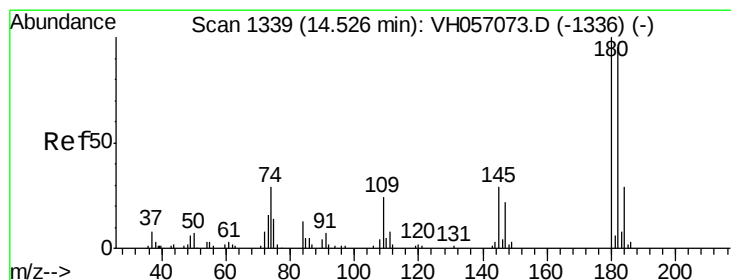
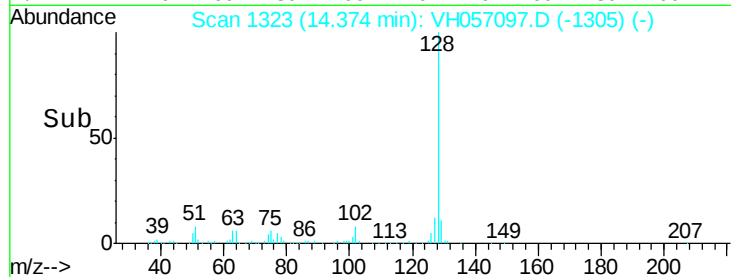
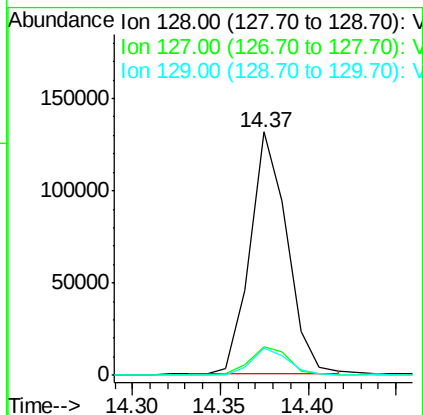
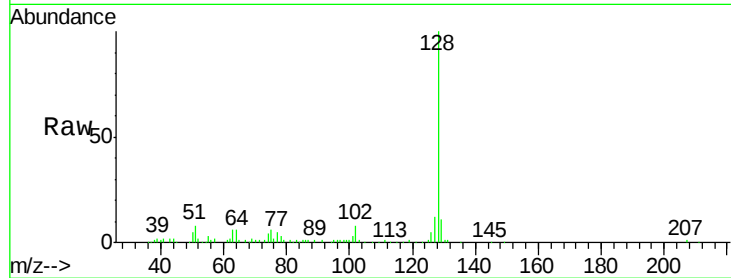
ClientSampled :

VH0921MBSD01

Tot Ion:	128	Resp:	192458
Ion Ratio	Lower	Upper	
128	100		
127	11.7	9.6	14.4
129	11.3	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
9/22/2015 2:55:04 PM



#96

1,2,3-Trichlorobenzene

Concen: 23.79 ug/l

RT: 14.52 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VH057097.D

Acq: 21 Sep 2015 18:13

Tgt Ion:	180	Resp:	31767
Ion Ratio	Lower	Upper	
180	100		
182	105.3	47.1	141.3
145	25.3	12.5	37.5

