

Data Path : W:\HPCHEM1\MSVOA H\DATA\XH091715\
 Data File : VH057072.D
 Acq On : 17 Sep 2015 18:08
 Operator : SY/FY
 Sample : VSTDIC040
 Misc : 5mL/MSVOA H/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Manual Integrations
 APPROVED

MMDadoda
 9/18/2015 3:12:35 PM

Quant Time: Sep 18 09:41:45 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 09:34:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	829873	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.57	114	1519789	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.72	117	1215016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.49	152	357259	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	596855	45.56	ug/l	0.00
Spiked Amount 50.000	Range 66 - 150		Recovery =	91.12%		
35) Dibromofluoromethane	4.08	113	482505	43.86	ug/l	0.00
Spiked Amount 50.000	Range 76 - 130		Recovery =	87.72%		
48) Toluene-d8	7.51	98	1397319	47.85	ug/l	0.00
Spiked Amount 50.000	Range 78 - 121		Recovery =	95.70%		
62) 4-Bromofluorobenzene	11.35	95	472176	44.36	ug/l	0.00
Spiked Amount 50.000	Range 70 - 131		Recovery =	88.72%		

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.93	85	425908	40.63	ug/l	97
3) Chloromethane	1.02	50	525201	35.88	ug/l	100
4) Vinyl Chloride	1.09	62	434865	36.10	ug/l	96
5) Bromomethane	1.27	94	215753	36.29	ug/l	99
6) Chloroethane	1.35	64	188981	31.25	ug/l	97
7) Trichlorofluoromethane	1.40	101	430251m	48.11	ug/l	
8) Tert butyl alcohol	2.54	59	507333	183.95	ug/l	98
9) Diethyl Ether	1.62	74	195056	32.78	ug/l	79
10) Diisopropyl ether	2.78	45	1412469	32.73	ug/l	98
11) 1,1-Dichloroethene	1.76	96	294763	34.92	ug/l	92
12) Methyl Iodide	1.86	142	516862	37.02	ug/l	93
13) Acrolein	1.98	56	326777	181.62	ug/l	88
14) 1,1,2-Trichlorotrifluoroet	1.81	101	288021	35.62	ug/l	94
15) Acrylonitrile	2.91	53	940329	152.72	ug/l	95
16) Allyl Chloride	2.08	41	599361	30.92	ug/l	92
17) Acetone	2.22	43	1326648	195.92	ug/l	98
18) Carbon Disulfide	1.77	76	894751	34.50	ug/l	96
19) Methyl Acetate	2.32	43	1454716	30.12	ug/l	100
20) Methyl tert-butyl Ether	2.41	73	1196220	36.35	ug/l	100
21) Methylene Chloride	2.15	84	321746m	33.46	ug/l	
22) trans-1,2-Dichloroethene	2.29	96	325173	34.93	ug/l	95
23) Vinyl Acetate	3.17	43	3423747	181.14	ug/l	100
24) 1,1-Dichloroethane	2.85	63	704211	34.80	ug/l	99
25) 2-Butanone	4.31	43	2653118	177.51	ug/l	98
26) 2,2-Dichloropropane	3.57	77	443756	39.92	ug/l	99
27) cis-1,2-Dichloroethene	3.45	96	466507	39.76	ug/l	93
28) Bromochloromethane	3.69	128	162558	37.12	ug/l	85
29) Chloroform	3.83	83	832244	39.24	ug/l	96
30) Cyclohexane	3.67	56	561032	36.31	ug/l	98
31) Tetrahydrofuran	4.05	42	1524556	175.53	ug/l	96
32) 1,1,1-Trichloroethane	4.07	97	611261	41.51	ug/l	96
36) 1,1-Dichloropropene	4.26	75	660457	42.38	ug/l	99
37) Ethyl acetate	4.09	43	1226549	37.63	ug/l #	55
38) Carbon Tetrachloride	3.97	117	503743	41.01	ug/l	97

Data Path : W:\HPCHEM1\MSVOA H\DATA\XH091715\
 Data File : VH057072.D
 Acq On : 17 Sep 2015 18:08
 Operator : SY/FY
 Sample : VSTDIC040
 Misc : 5mL/MSVOA H/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleID :
 VSTDIC040

Manual Integrations
 APPROVED

MMDadoda
 9/18/2015 3:12:35 PM

Quant Time: Sep 18 09:41:45 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 09:34:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	4.61	78	1539626	39.32	ug/l	96
40) Methacrylonitrile	4.72	41	551895	36.49	ug/l	94
41) 1,2-Dichloroethane	4.91	62	678746	40.44	ug/l	98
42) Isopropyl Acetate	5.46	43	1598534	37.94	ug/l	99
43) Trichloroethene	5.48	130	392836	40.34	ug/l	93
44) Methylcyclohexane	5.44	83	364707	37.81	ug/l	96
45) 1,2-Dichloropropane	6.20	63	489281	38.85	ug/l	99
46) Dibromomethane	6.06	93	329215	41.60	ug/l	93
47) Bromodichloromethane	6.36	83	669062	41.41	ug/l	100
49) 4-Methyl-2-Pentanone	8.21	43	4809049	186.16	ug/l	99
50) Toluene	7.59	92	994555	39.72	ug/l	96
51) t-1,3-Dichloropropene	8.23	75	791710	42.56	ug/l	97
52) Methyl Methacrylate	6.69	69	494108	38.91	ug/l	94
53) 1,4-Dioxane	6.67	88	115156	923.86	ug/l	89
54) cis-1,3-Dichloropropene	7.26	75	816487	40.23	ug/l	99
55) 1,1,2-Trichloroethane	8.44	97	418564	41.06	ug/l	99
56) Ethyl Methacrylate	8.58	69	877769	41.51	ug/l	97
57) 1,3-Dichloropropane	8.80	76	873577	40.85	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.26	63	2067812	113.91	ug/l	99
59) 2-Hexanone	9.44	43	3668930	194.79	ug/l	98
60) Dibromochloromethane	8.66	129	486698	42.06	ug/l	98
61) 1,2-Dibromoethane	8.93	107	507520	42.51	ug/l	92
64) Tetrachloroethene	8.11	164	267277	39.05	ug/l	93
65) Chlorobenzene	9.74	112	1033791	40.75	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.87	131	357862	40.18	ug/l	92
67) Ethyl Benzene	9.85	106	487317	38.32	ug/l	91
68) m/p-Xylenes	10.08	106	1229612	80.49	ug/l	100
69) o-Xylene	10.66	106	569687	38.64	ug/l	98
70) Styrene	10.73	104	1037925	41.78	ug/l	97
71) Bromoform	10.72	173	312249	42.82	ug/l	97
73) Isopropylbenzene	11.07	105	1234130	36.76	ug/l	99
74) n-Amyl Acetate	11.32	43	1317048	36.07	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.64	83	674986	38.89	ug/l	96
76) 1,2,3-Trichloropropane	11.73	75	512705	37.95	ug/l	92
77) Bromobenzene	11.44	156	369744	40.84	ug/l	86
78) n-propylbenzene	11.55	91	1330256	37.67	ug/l	100
79) 2-Chlorotoluene	11.66	91	813519	38.03	ug/l	96
80) 1,3,5-Trimethylbenzene	11.77	105	826255	39.78	ug/l	98
81) trans-1,4-Dichloro-2-Buten	11.82	75	380918	36.92	ug/l	97
82) 4-Chlorotoluene	11.84	91	984708	38.52	ug/l	95
83) tert-Butylbenzene	12.07	119	754071	38.60	ug/l	99
84) 1,2,4-Trimethylbenzene	12.14	105	850110	40.50	ug/l	100
85) sec-Butylbenzene	12.25	105	802928	38.63	ug/l	99
86) p-Isopropyltoluene	12.40	119	612588	38.43	ug/l	99
87) 1,3-Dichlorobenzene	12.42	146	435019	40.25	ug/l	98
88) 1,4-Dichlorobenzene	12.50	146	443656	39.00	ug/l	98
89) n-Butylbenzene	12.78	91	520591	41.68	ug/l	95
90) Hexachloroethane	12.85	117	121032	35.67	ug/l	93
91) 1,2-Dichlorobenzene	12.88	146	389892	41.95	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.58	75	68907	39.18	ug/l	97

Data Path : W:\HPCHEM1\MSVOA H\DATA\VH091715\
Data File : VH057072.D
Acq On : 17 Sep 2015 18:08
Operator : SY/FY
Sample : VSTDICC040
Misc : 5mL/MSVOA H/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_H
ClientSampleId :
VSTDICC040

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM

Quant Time: Sep 18 09:41:45 2015
Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 09:34:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.13	180	83252	49.80	ug/l	92
94) Hexachlorobutadiene	14.12	225	44383	52.66	ug/l	95
95) Naphthalene	14.38	128	349795	48.64	ug/l	97
96) 1,2,3-Trichlorobenzene	14.52	180	58361	55.01	ug/l	94

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

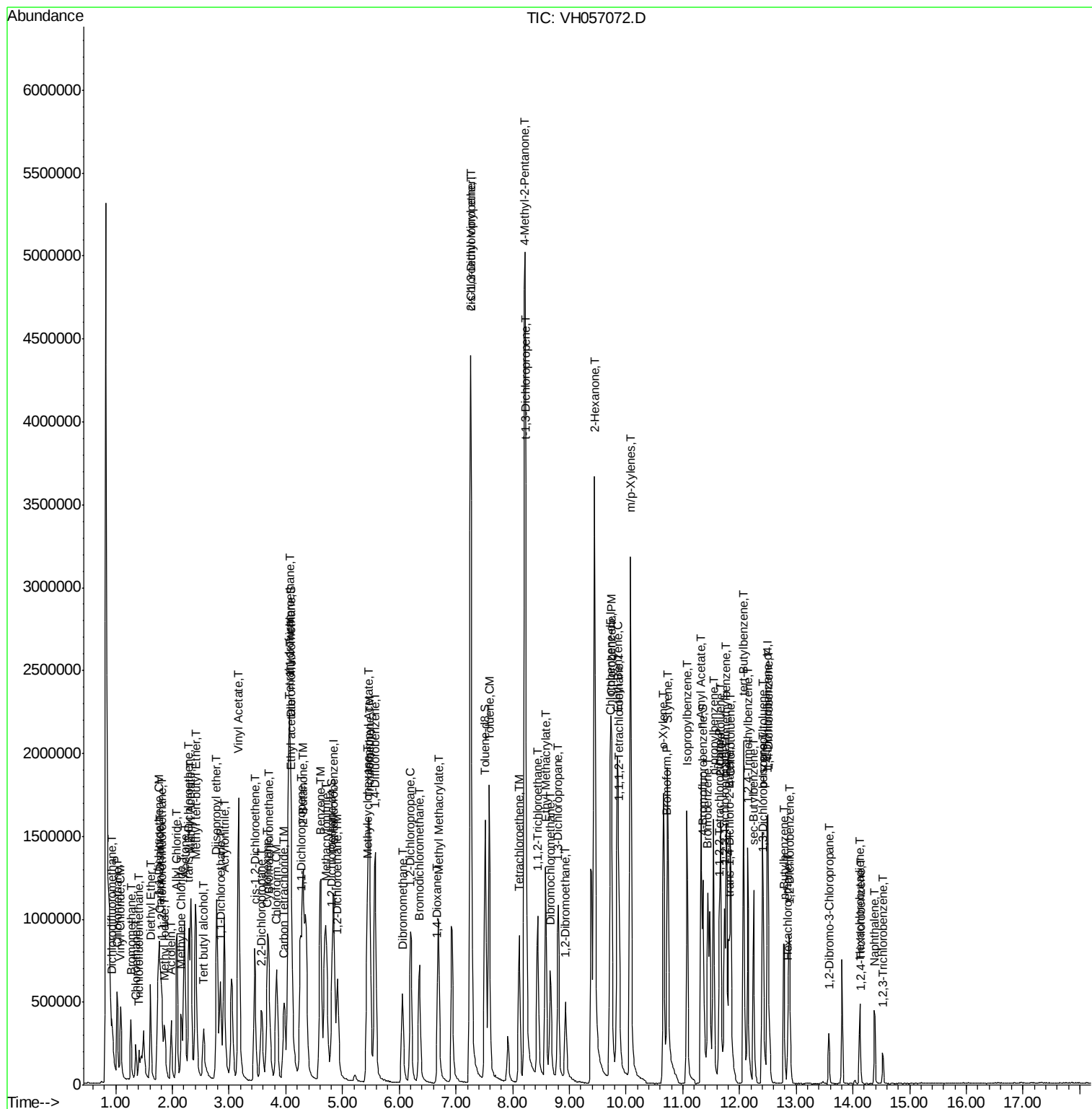
Data Path : W:\HPCHEM1\MSVOA H\DATA\XH091715\
 Data File : VH057072.D
 Acd On : 17 Sep 2015 18:08
 Operator : SY/FY
 Sample : VSTDIC040
 Misc : 5mL/MSVOA H/WATER
 ALS Vial : 5 Sample Multiplier: 1

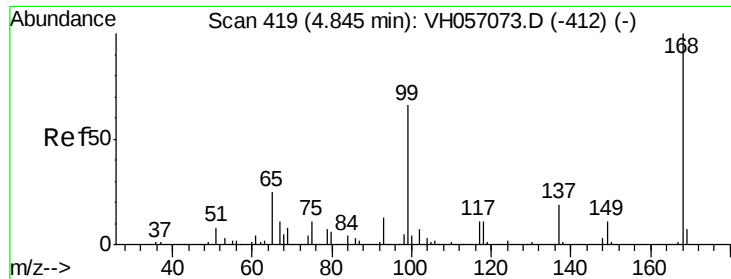
Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Manual Integrations
 APPROVED

MMDadoda
 9/18/2015 3:12:35 PM

Quant Time: Sep 18 09:41:45 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 09:34:12 2015
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.85 min Scan# 419

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion:168 Resp: 829873

Ion Ratio Lower Upper

168 100

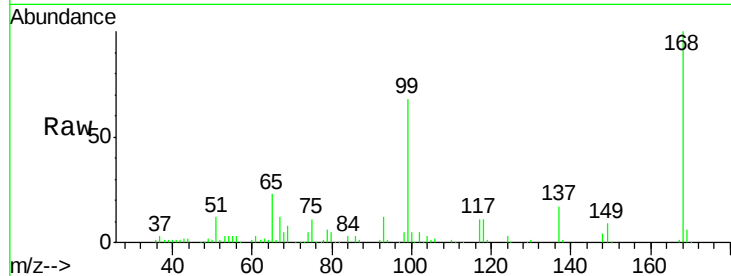
99 68.0 55.8 83.6

Manual Integrations

APPROVED

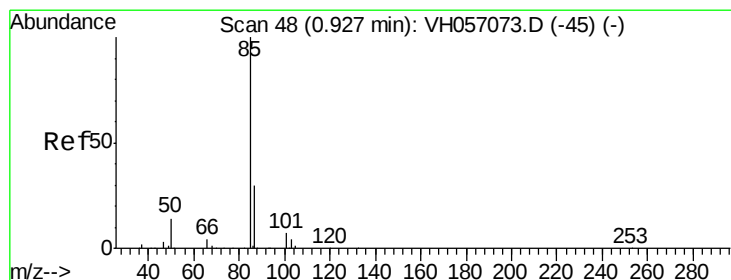
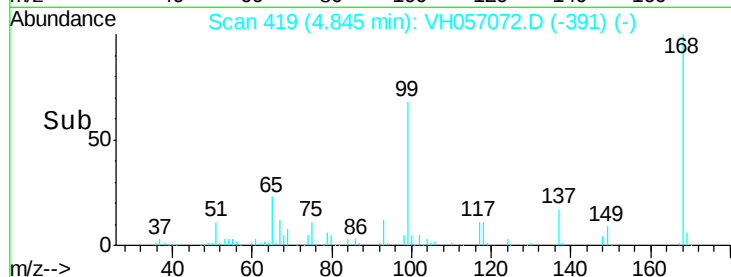
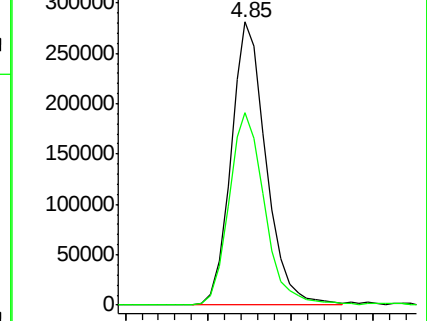
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VHC



#2

Dichlorodifluoromethane

Concen: 40.63 ug/l

RT: 0.93 min Scan# 48

Delta R.T. 0.00 min

Lab File: VH057072.D

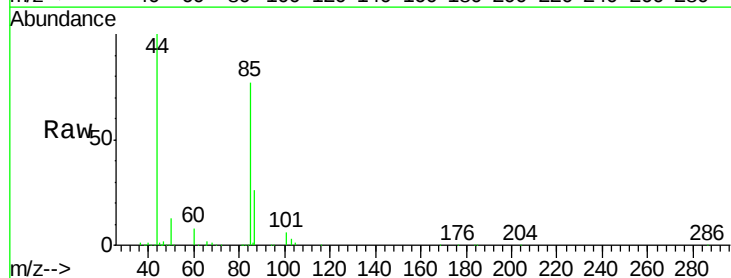
Acq: 17 Sep 2015 18:08

Tgt Ion: 85 Resp: 425908

Ion Ratio Lower Upper

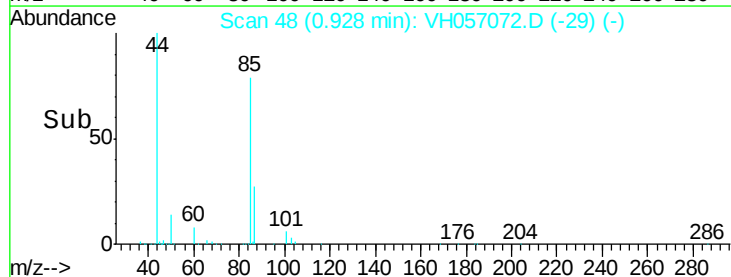
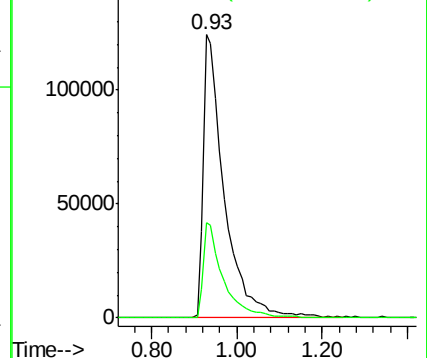
85 100

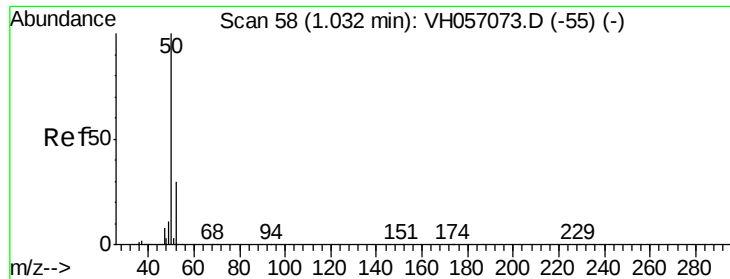
87 33.7 16.0 47.9



Abundance Ion 85.00 (84.70 to 85.70): VHC

Ion 87.00 (86.70 to 87.70): VHC





#3

Chloromethane

Concen: 35.88 ug/l

RT: 1.02 min Scan# 57

Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 50 Resp: 525201

Ion Ratio Lower Upper

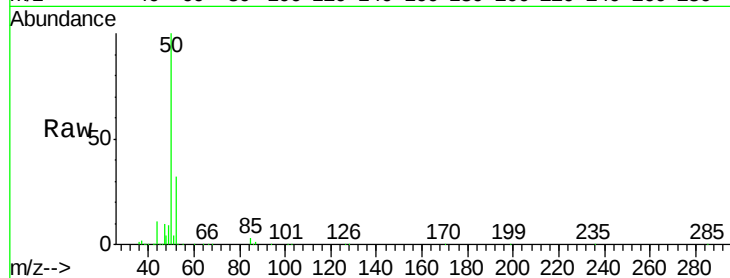
50 100

52 32.2 25.8 38.8

Manual Integrations
APPROVED

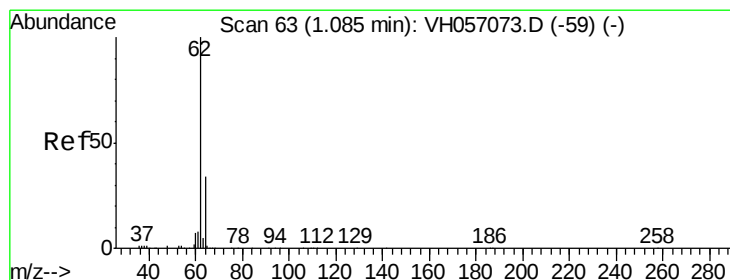
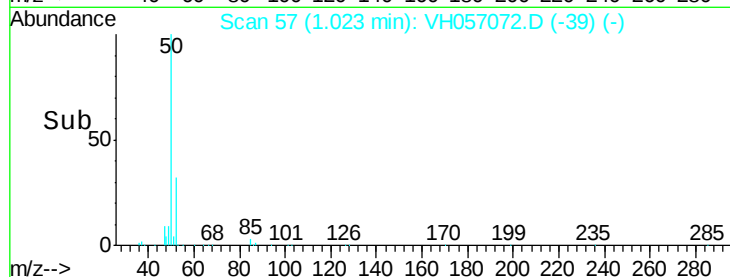
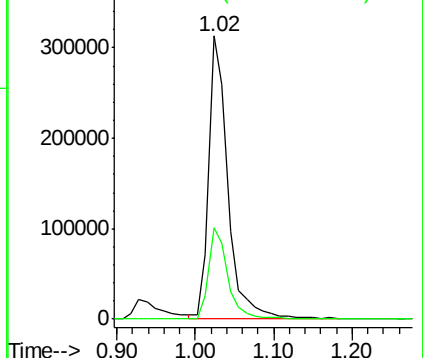
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 50.00 (49.70 to 50.70): VH0

Ion 52.00 (51.70 to 52.70): VH0



#4

Vinyl Chloride

Concen: 36.10 ug/l

RT: 1.09 min Scan# 63

Delta R.T. 0.00 min

Lab File: VH057072.D

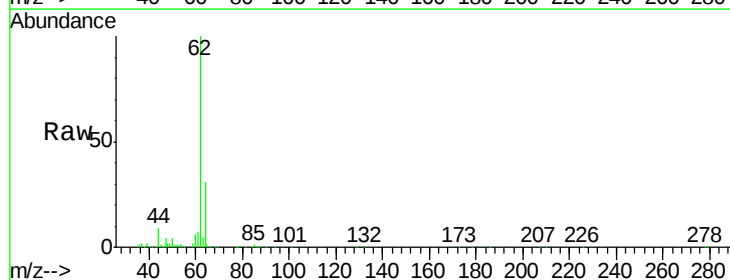
Acq: 17 Sep 2015 18:08

Tgt Ion: 62 Resp: 434865

Ion Ratio Lower Upper

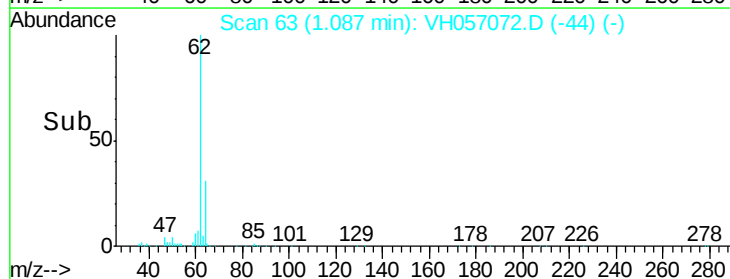
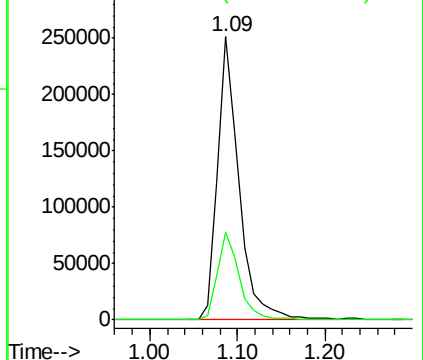
62 100

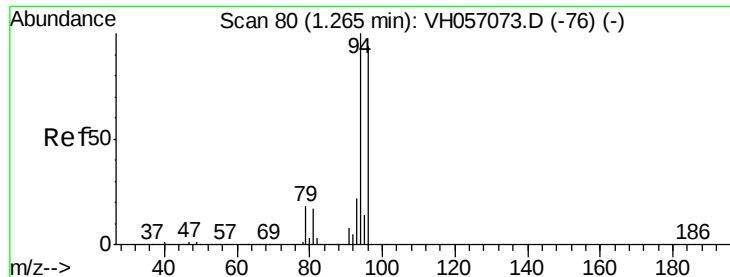
64 31.1 26.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 64.00 (63.70 to 64.70): VH0





#5

Bromomethane

Concen: 36.29 ug/l

RT: 1.27 min Scan# 80

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampled :

VSTDIC040

Tot Ion: 94 Resp: 215753

Ion Ratio Lower Upper

94 100

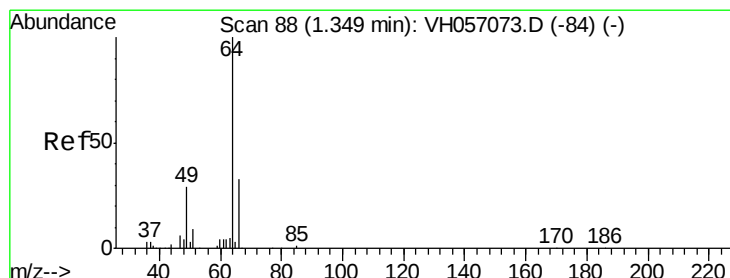
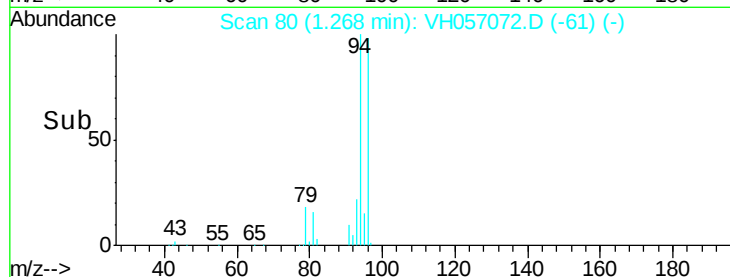
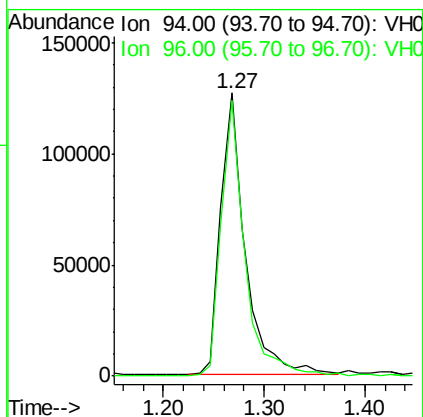
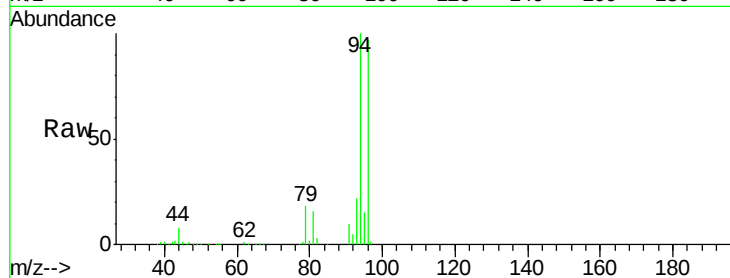
96 97.3 78.5 117.7

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



#6

Chloroethane

Concen: 31.25 ug/l

RT: 1.35 min Scan# 88

Delta R.T. 0.00 min

Lab File: VH057072.D

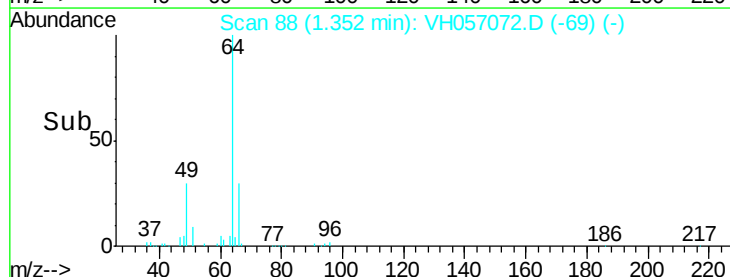
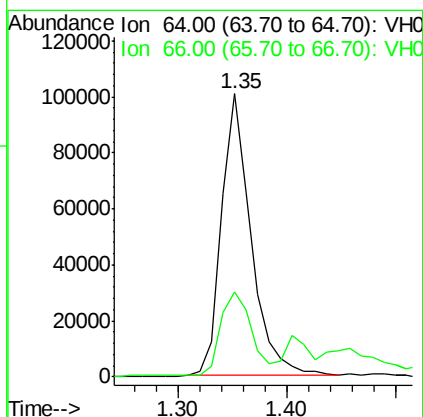
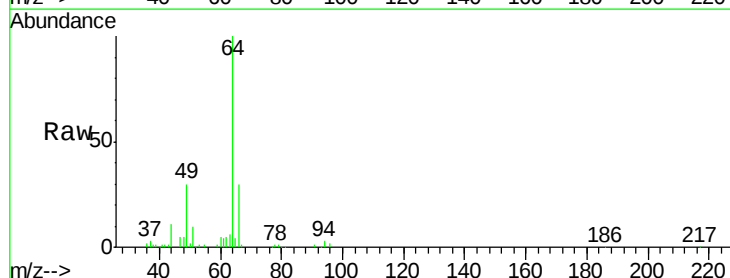
Acq: 17 Sep 2015 18:08

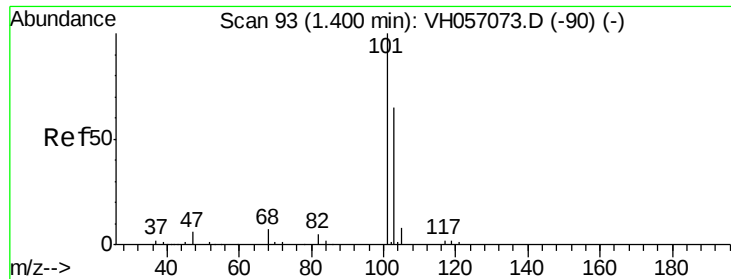
Tgt Ion: 64 Resp: 188981

Ion Ratio Lower Upper

64 100

66 30.0 25.2 37.8





#7

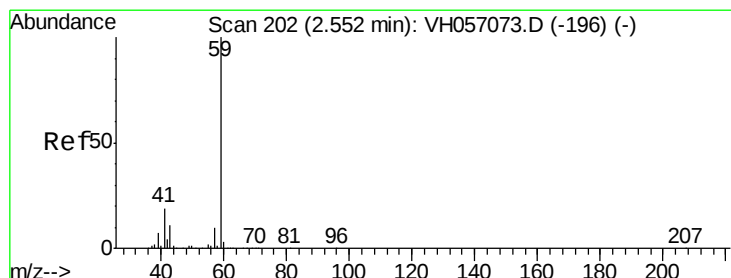
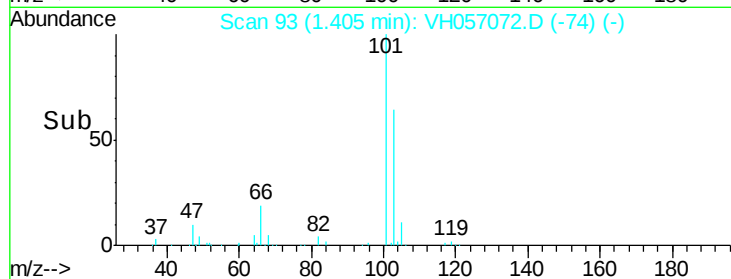
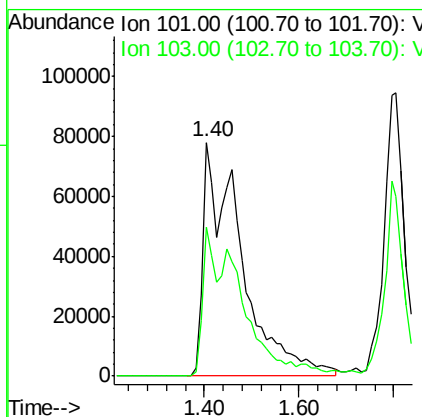
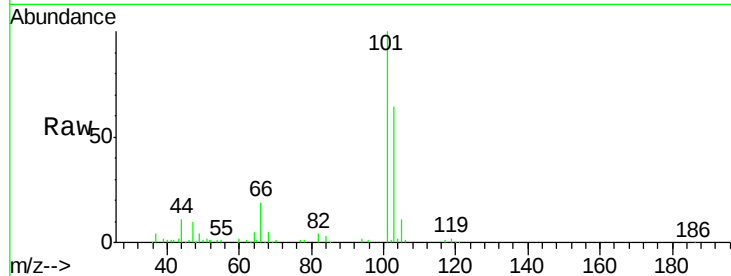
Trichlorofluoromethane
Concen: 48.11 ug/l m
RT: 1.40 min Scan# 93
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampled :
VSTDIC040

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		430251		
103	63.9	54.9	82.3		

Manual Integrations
APPROVED

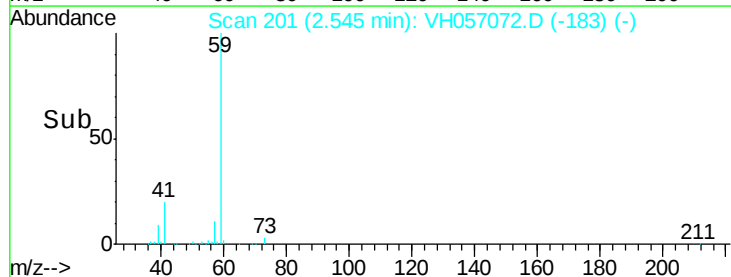
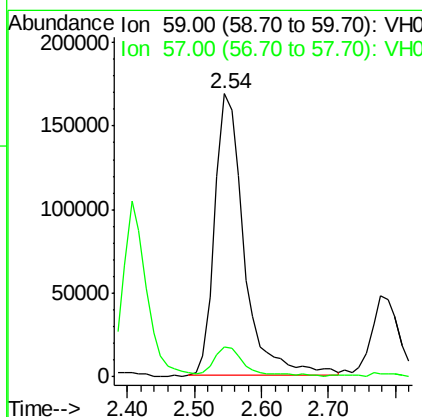
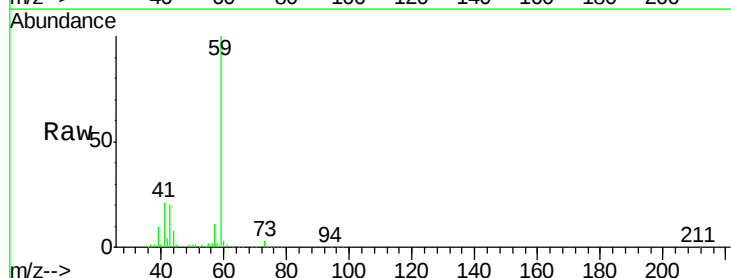
MMDadoda
9/18/2015 3:12:35 PM

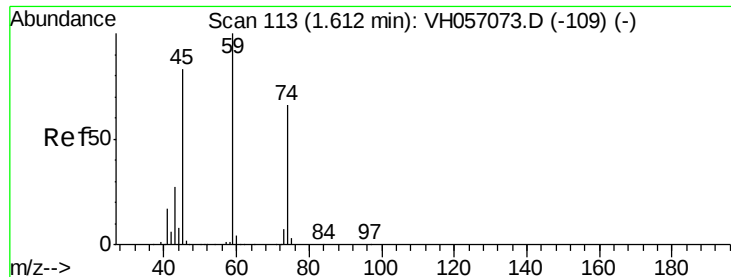


#8

Tert butyl alcohol
Concen: 183.95 ug/l
RT: 2.54 min Scan# 201
Delta R.T. -0.01 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
59	100		507333		
57	10.7	9.0	11.0		





#9

Diethyl Ether

Concen: 32.78 ug/l

RT: 1.62 min Scan# 113

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 74 Resp: 195056

Ion Ratio Lower Upper

74 100

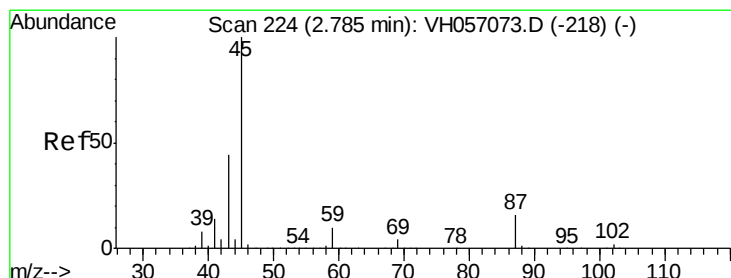
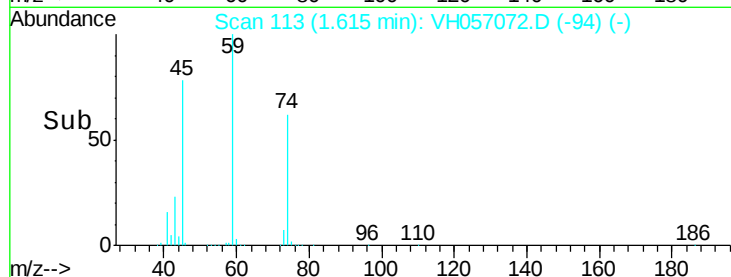
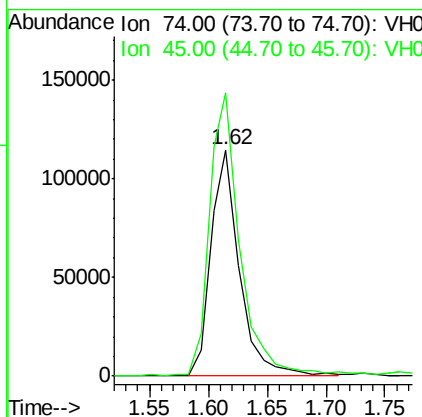
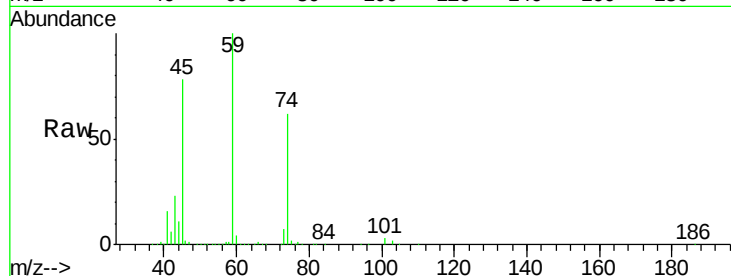
45 125.2 0.0 304.4

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



#10

Diisopropyl ether

Concen: 32.73 ug/l

RT: 2.78 min Scan# 223

Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tgt Ion: 45 Resp: 1412469

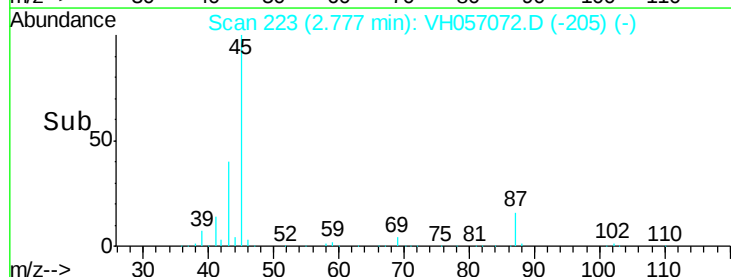
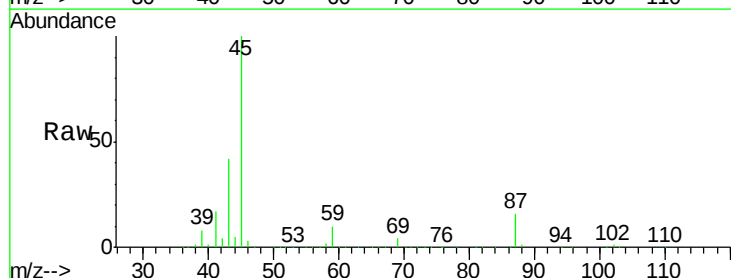
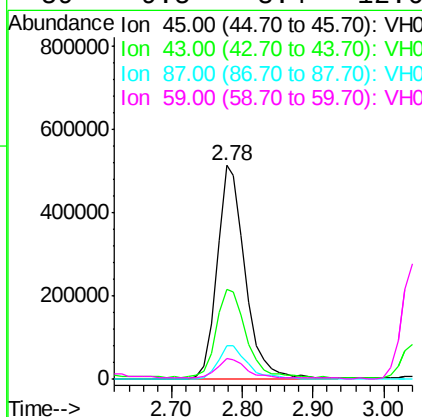
Ion Ratio Lower Upper

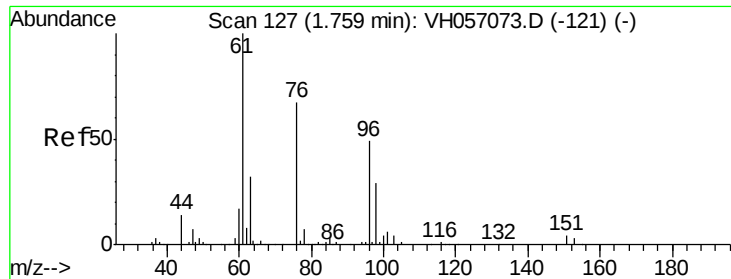
45 100

43 42.1 34.6 52.0

87 15.7 12.6 19.0

59 9.5 8.4 12.6





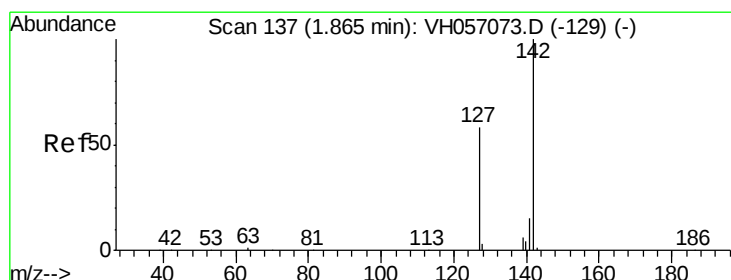
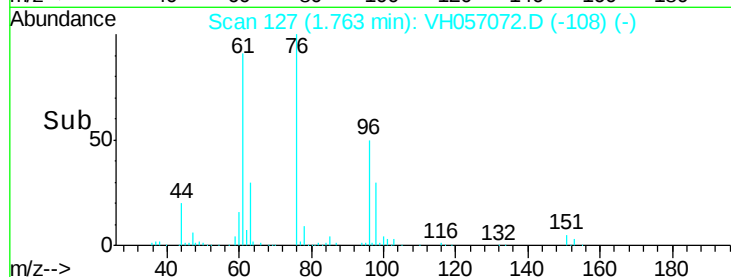
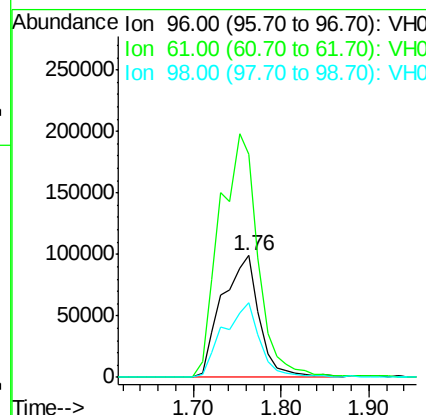
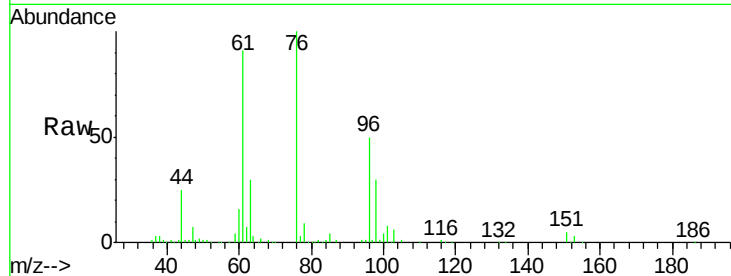
#11
 1,1-Dichloroethene
 Concen: 34.92 ug/l
 RT: 1.76 min Scan# 127
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Tot Ion	Ratio	Lower	Upper
96	100		
61	183.1	158.4	237.6
98	61.2	50.6	75.8

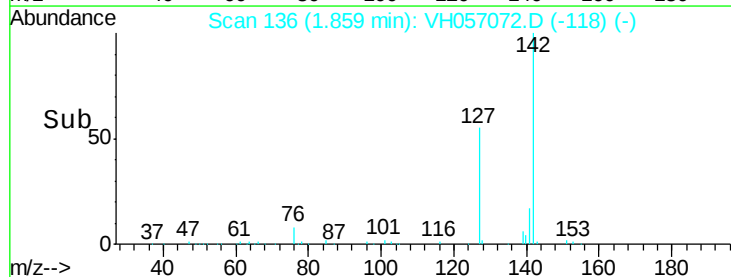
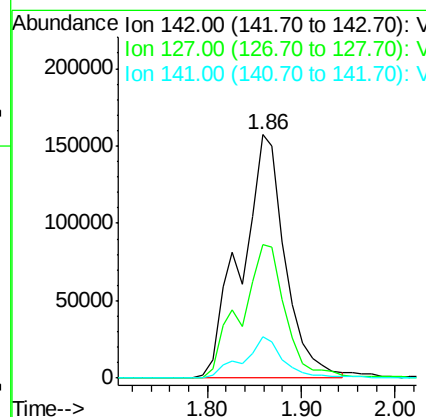
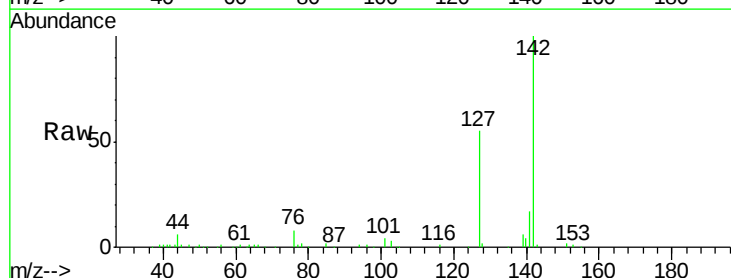
Manual Integrations
 APPROVED

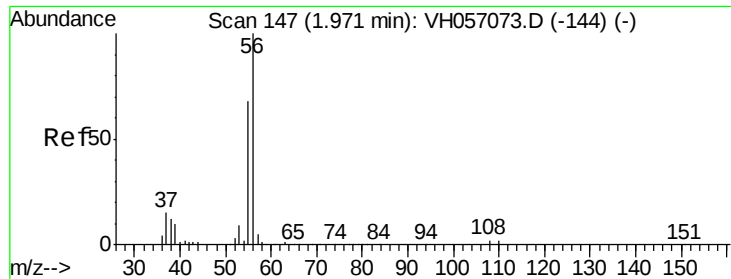
MMDadoda
 9/18/2015 3:12:35 PM



#12
 Methyl Iodide
 Concen: 37.02 ug/l
 RT: 1.86 min Scan# 136
 Delta R.T. -0.01 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Lower	Upper
142	100		
127	54.6	30.0	90.1
141	16.8	7.1	21.4





#13

Acrolein

Concen: 181.62 ug/l

RT: 1.98 min Scan# 147

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 56 Resp: 326777

Ion Ratio Lower Upper

56 100

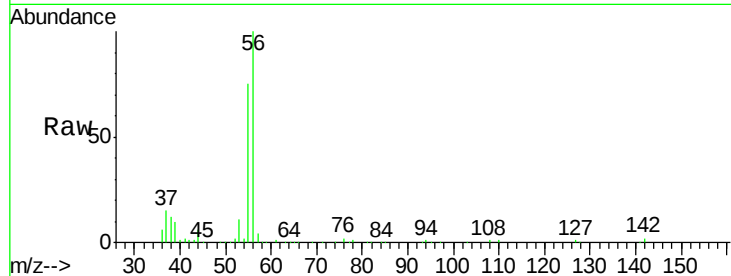
55 75.4 52.9 79.3

Manual Integrations

APPROVED

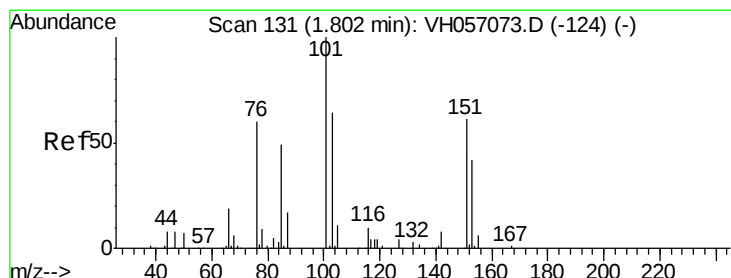
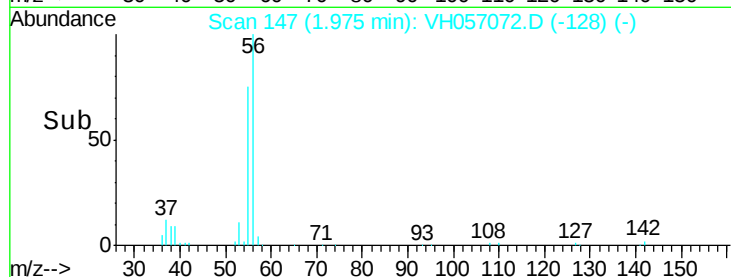
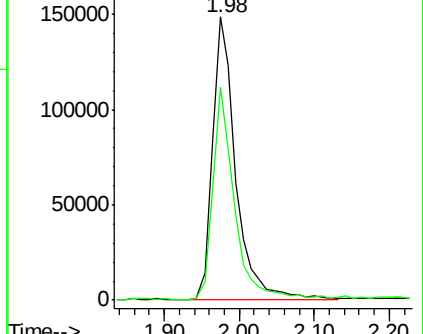
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 56.00 (55.70 to 56.70): VH0

Ion 55.00 (54.70 to 55.70): VH0



#14

1,1,2-Trichlorotrifluoroethane

Concen: 35.62 ug/l

RT: 1.81 min Scan# 131

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

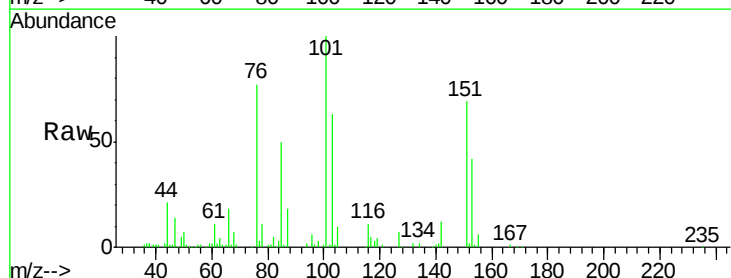
Tgt Ion: 101 Resp: 288021

Ion Ratio Lower Upper

101 100

85 50.3 37.9 56.9

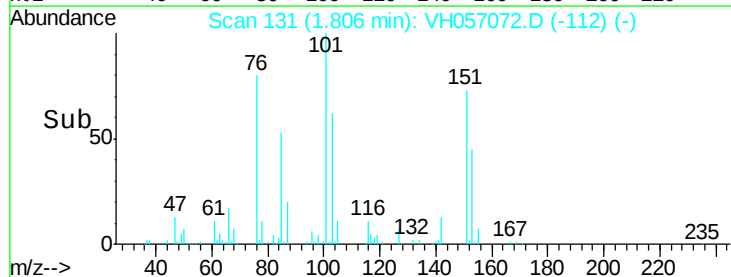
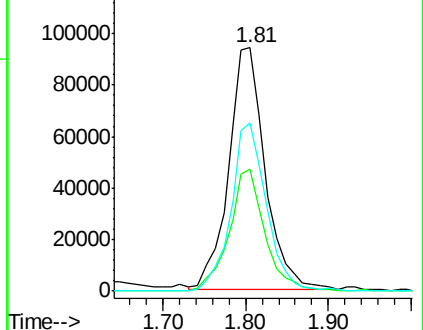
151 69.1 50.6 76.0

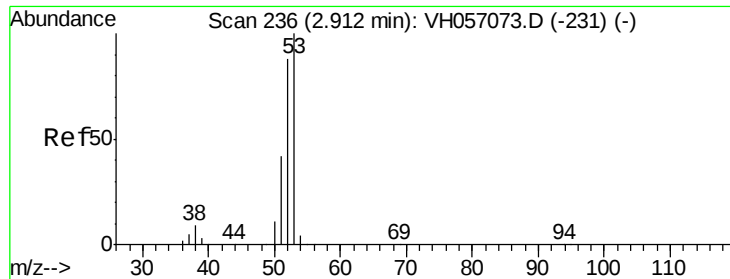


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VH0

Ion 151.00 (150.70 to 151.70): V





#15

Acrylonitrile

Concen: 152.72 ug/l

RT: 2.91 min Scan# 236

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

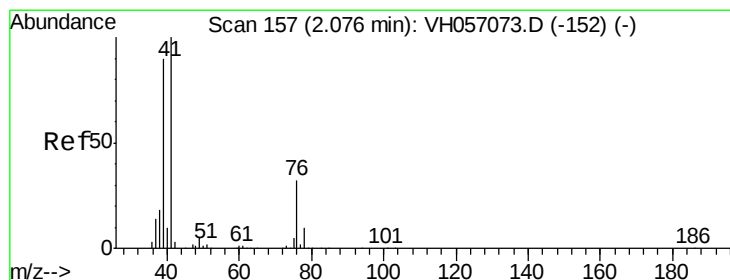
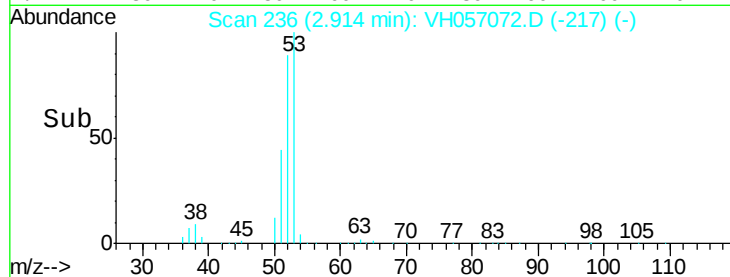
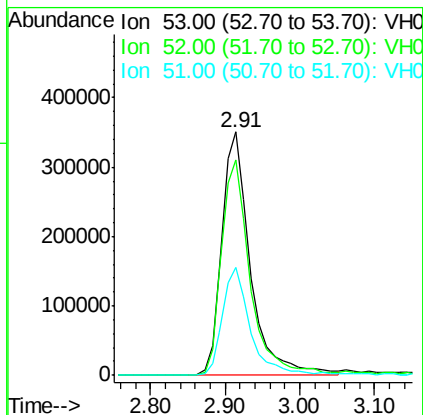
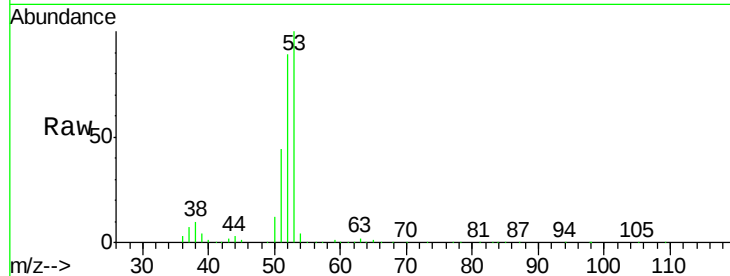
ClientSampleId :

VSTDIC040

Tot Ion:	53	Resp:	940329
Ion Ratio	Lower	Upper	
53	100		
52	88.5	67.6	101.4
51	44.2	31.8	47.6

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM



#16

Allyl Chloride

Concen: 30.92 ug/l

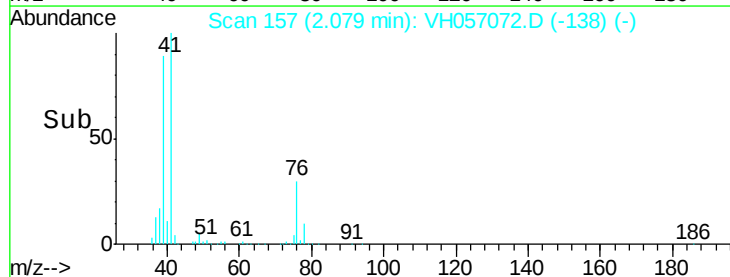
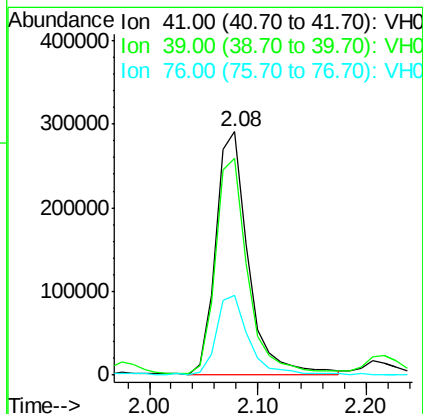
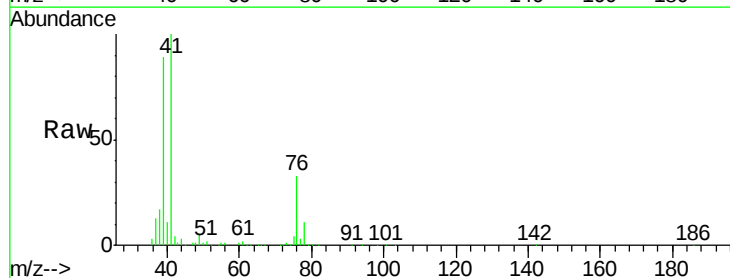
RT: 2.08 min Scan# 157

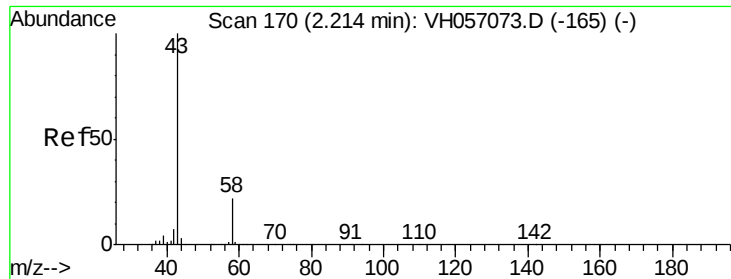
Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tgt Ion:	41	Resp:	599361
Ion Ratio	Lower	Upper	
41	100		
39	88.8	41.0	123.2
76	32.7	14.3	42.9





#17

Acetone

Concen: 195.92 ug/l

RT: 2.22 min Scan# 170

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 43 Resp: 1326648

Ion Ratio Lower Upper

43 100

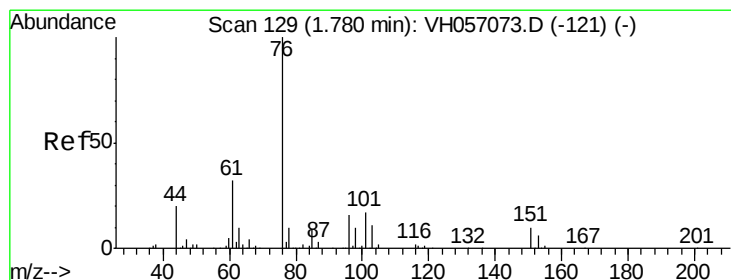
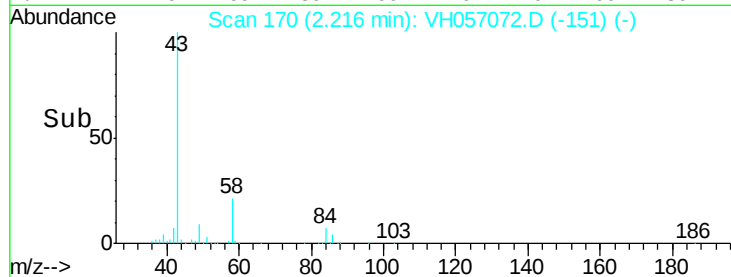
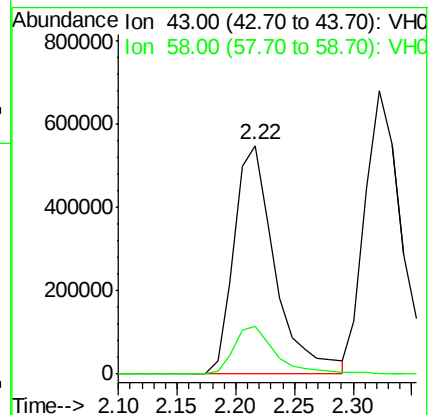
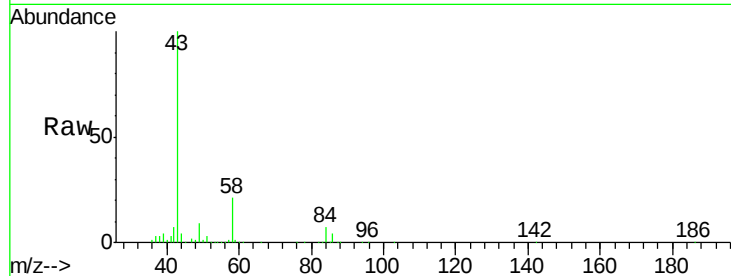
58 21.1 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



#18

Carbon Disulfide

Concen: 34.50 ug/l

RT: 1.77 min Scan# 128

Delta R.T. -0.01 min

Lab File: VH057072.D

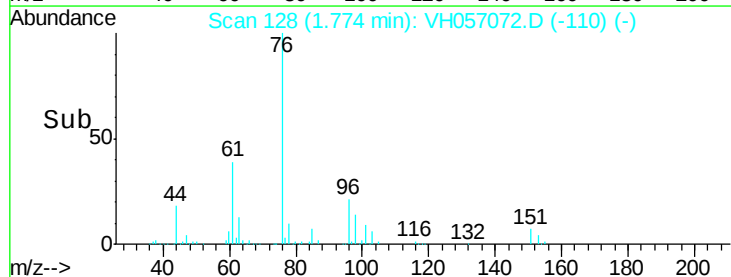
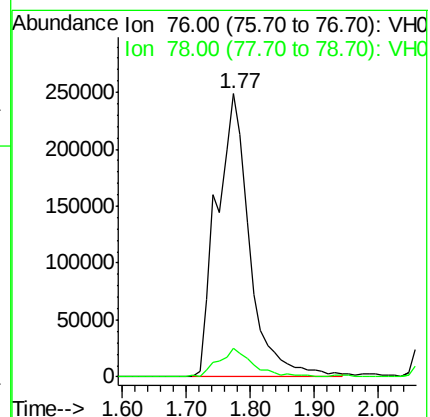
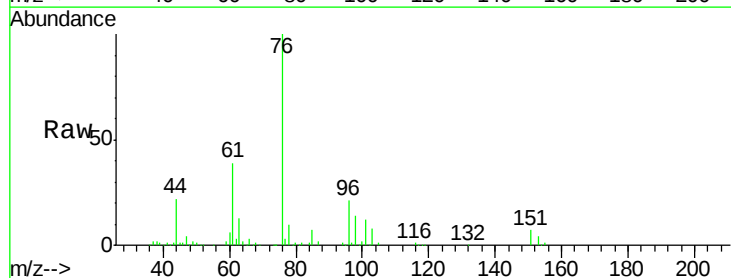
Acq: 17 Sep 2015 18:08

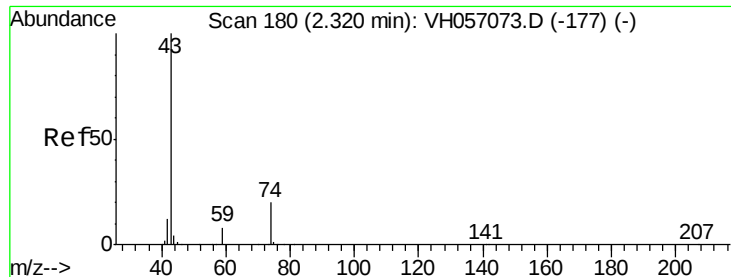
Tgt Ion: 76 Resp: 894751

Ion Ratio Lower Upper

76 100

78 10.2 7.1 10.7





#19

Methyl Acetate

Concen: 30.12 ug/l

RT: 2.32 min Scan# 180

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 43 Resp: 1454716

Ion Ratio Lower Upper

43 100

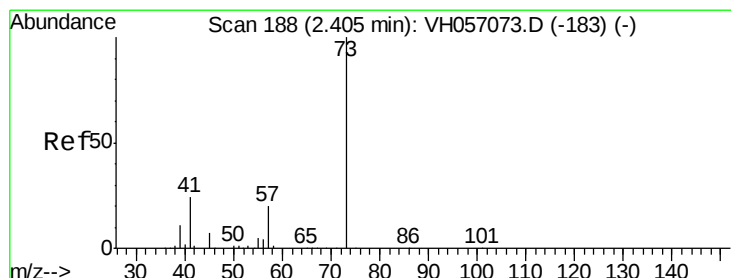
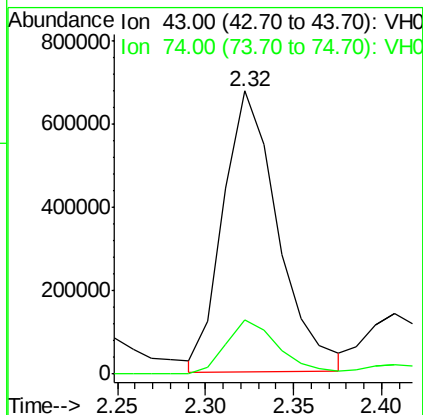
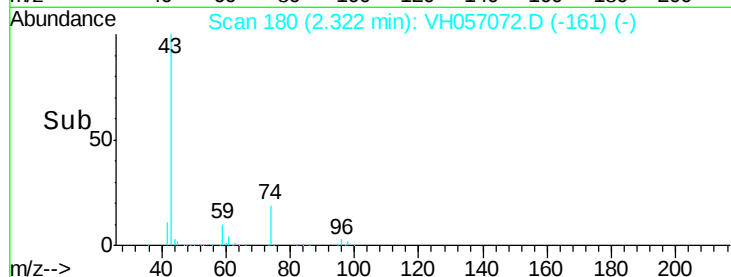
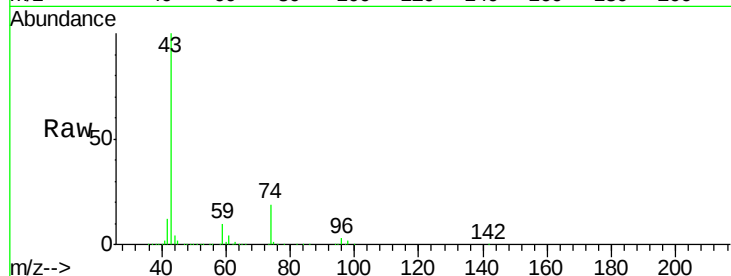
74 19.2 13.3 24.7

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



#20

Methyl tert-butyl Ether

Concen: 36.35 ug/l

RT: 2.41 min Scan# 188

Delta R.T. 0.00 min

Lab File: VH057072.D

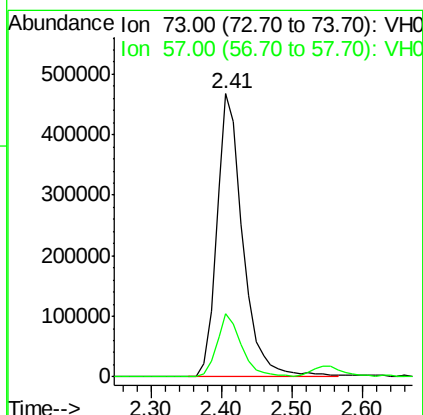
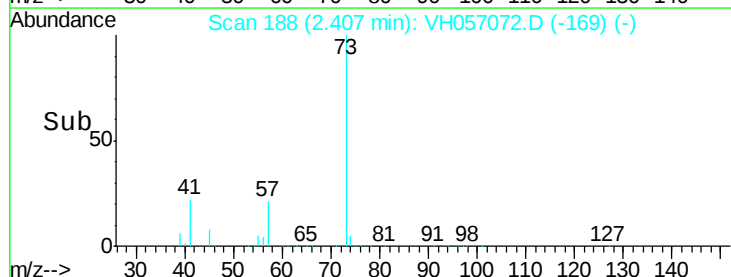
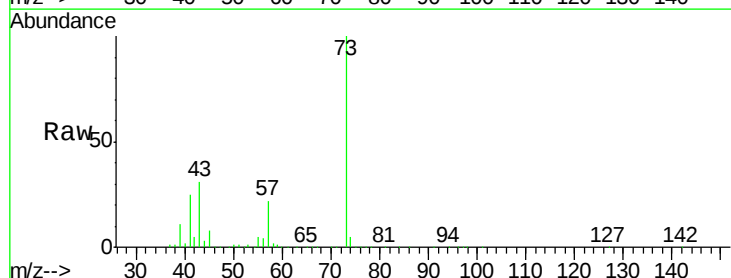
Acq: 17 Sep 2015 18:08

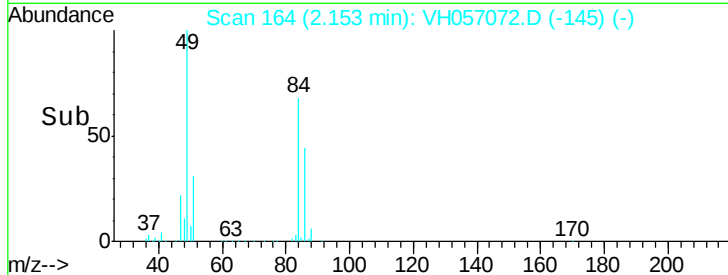
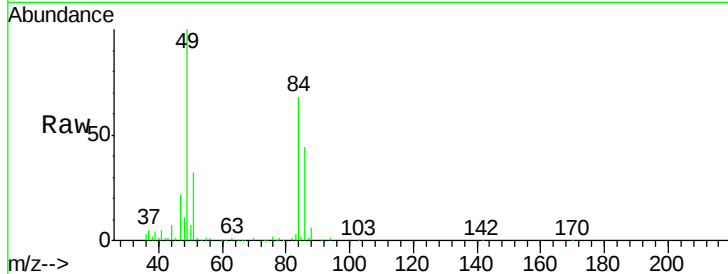
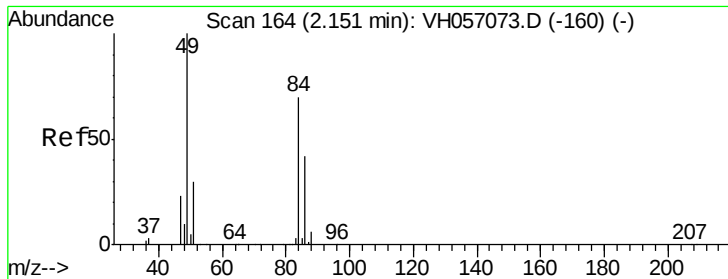
Tgt Ion: 73 Resp: 1196220

Ion Ratio Lower Upper

73 100

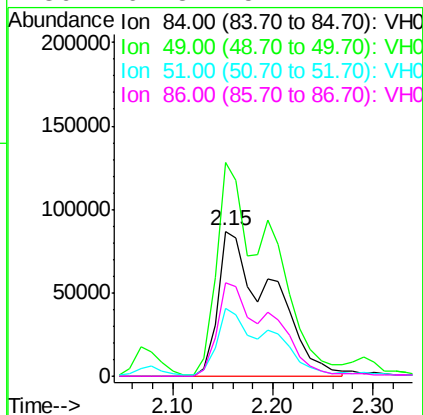
57 22.4 18.0 27.0





#21
Methvlene Chloride
Concen: 33.46 ug/l m
RT: 2.15 min Scan# 164
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

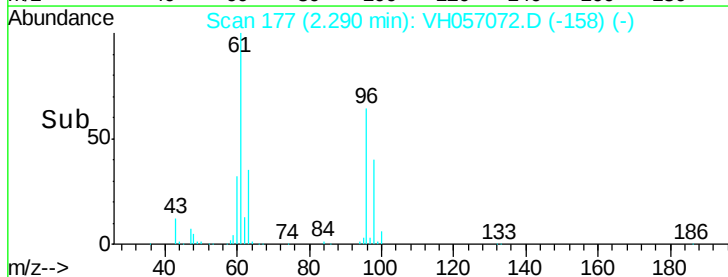
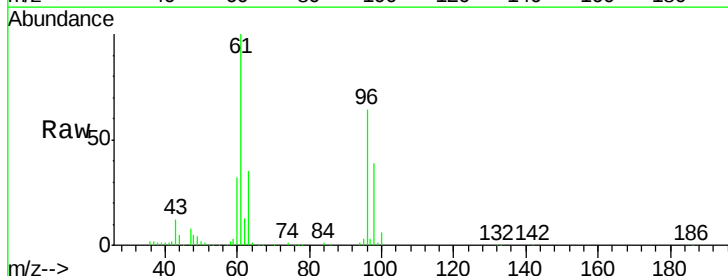
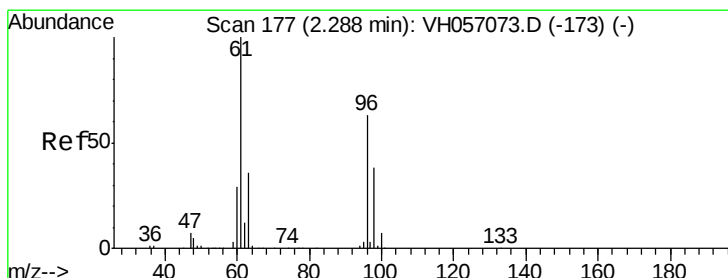
Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	147.4	132.8	199.2		
51	46.6	39.5	59.3		
86	64.8	51.4	77.2		



Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

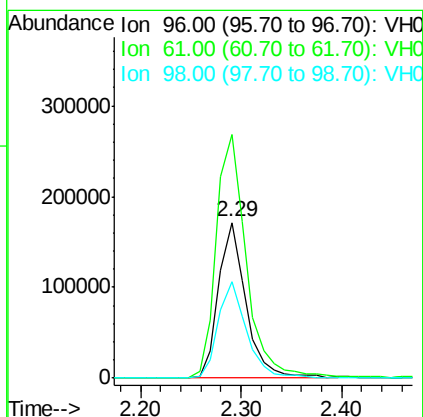
Manual Integrations
APPROVED

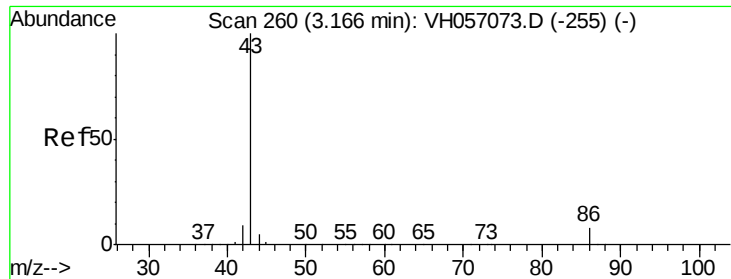
MMDadoda
9/18/2015 3:12:35 PM



#22
trans-1,2-Dichloroethene
Concen: 34.93 ug/l
RT: 2.29 min Scan# 177
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	156.4	131.7	197.5		
98	61.7	49.5	74.3		





#23

Vinyl Acetate

Concen: 181.14 ug/l

RT: 3.17 min Scan# 260

Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 43 Resp: 3423747

Ion Ratio Lower Upper

43 100

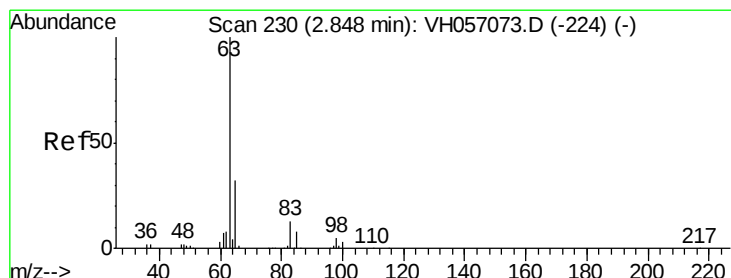
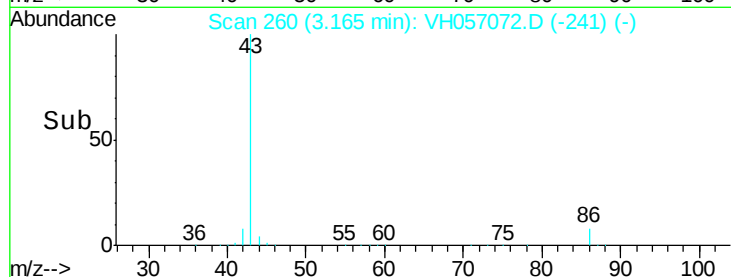
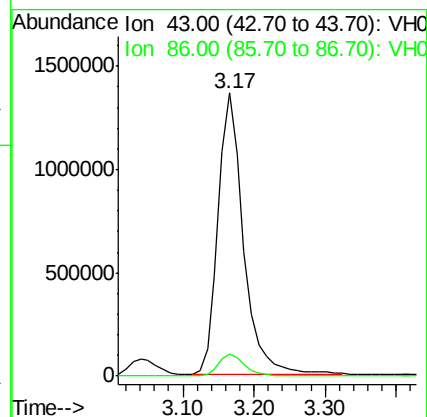
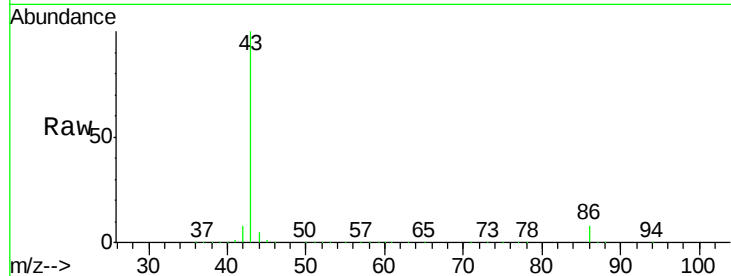
86 7.8 6.2 9.2

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



#24

1,1-Dichloroethane

Concen: 34.80 ug/l

RT: 2.85 min Scan# 230

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

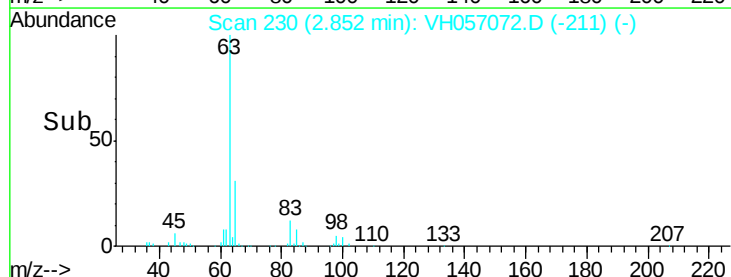
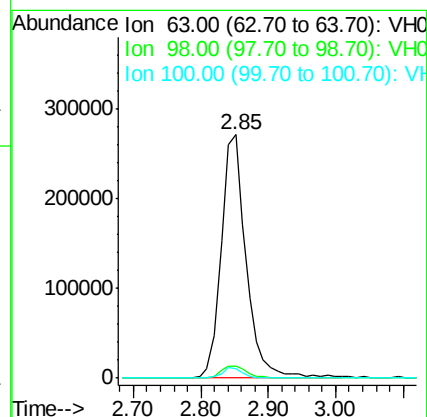
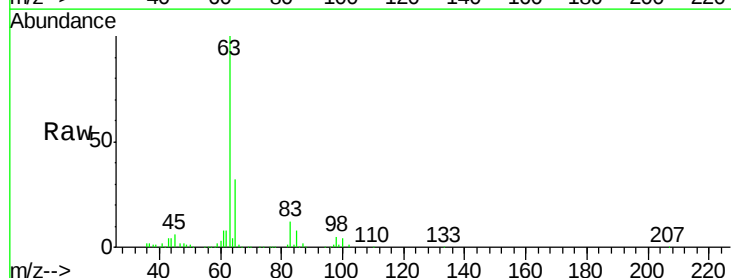
Tgt Ion: 63 Resp: 704211

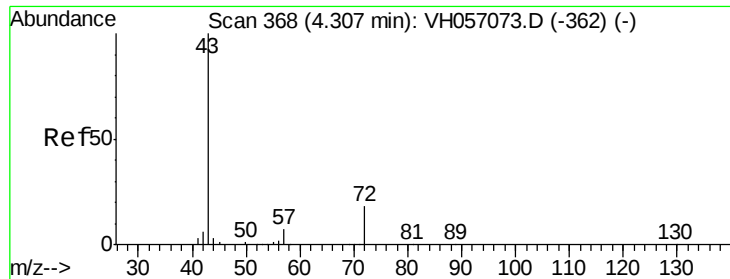
Ion Ratio Lower Upper

63 100

98 4.8 2.6 7.8

100 3.8 1.7 5.0





#25

2-Butanone

Concen: 177.51 ug/l

RT: 4.31 min Scan# 368

Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tot Ion: 43 Resp: 2653118

Ion Ratio Lower Upper

43 100

72 20.6 0.0 39.2

Instrument :

MSVOA_H

ClientSampleId :

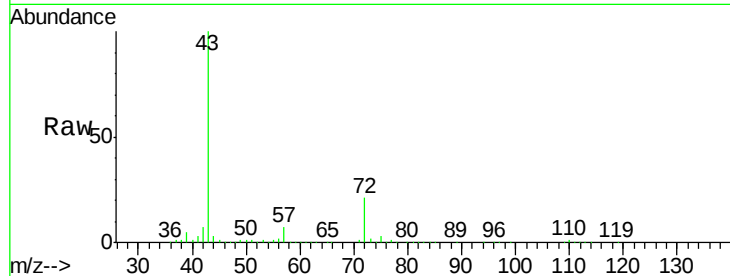
VSTDIC040

Manual Integrations

APPROVED

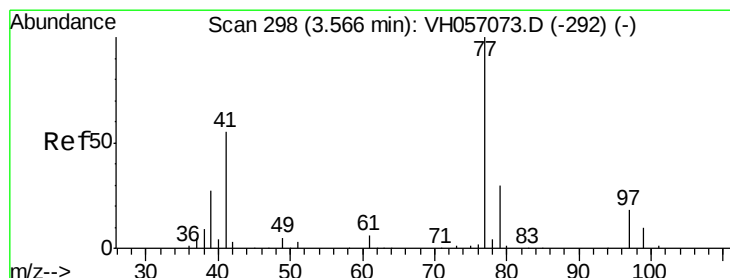
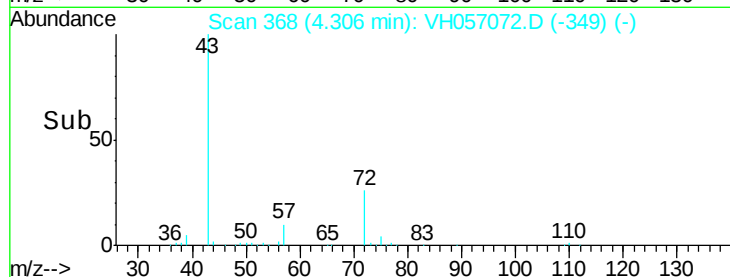
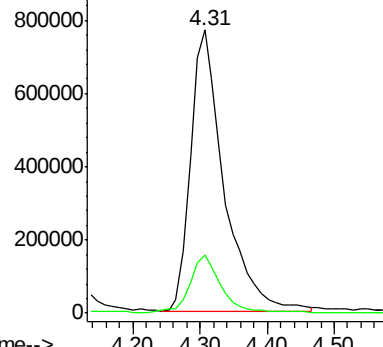
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 72.00 (71.70 to 72.70): VH0



#26

2,2-Dichloropropane

Concen: 39.92 ug/l

RT: 3.57 min Scan# 298

Delta R.T. 0.00 min

Lab File: VH057072.D

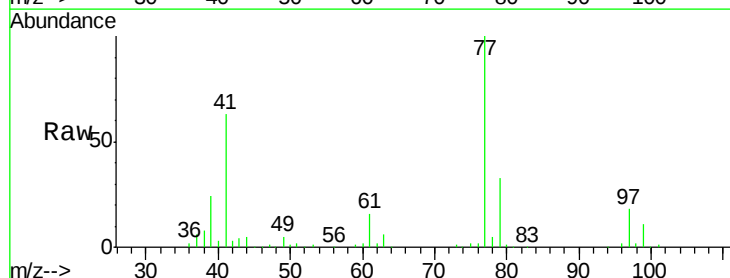
Acq: 17 Sep 2015 18:08

Tgt Ion: 77 Resp: 443756

Ion Ratio Lower Upper

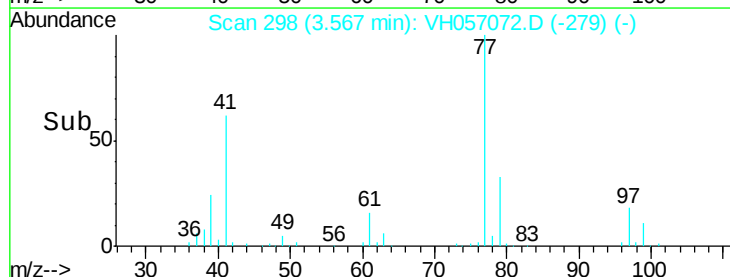
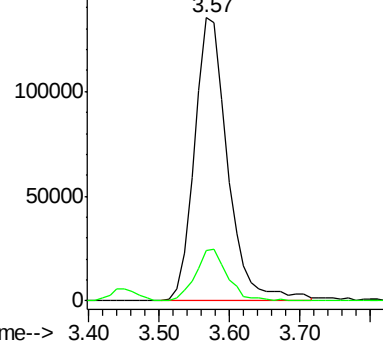
77 100

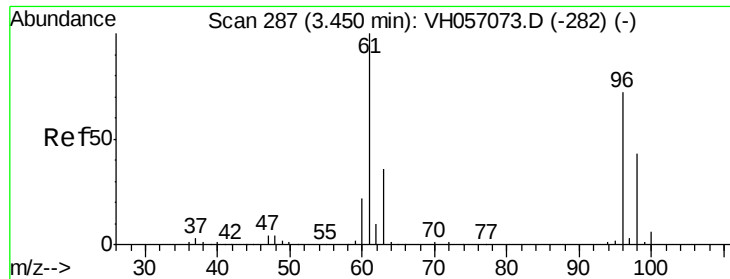
97 18.0 8.8 26.4



Abundance Ion 77.00 (76.70 to 77.70): VH0

Ion 97.00 (96.70 to 97.70): VH0





#27

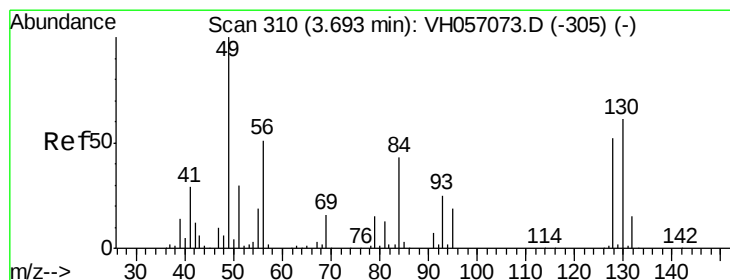
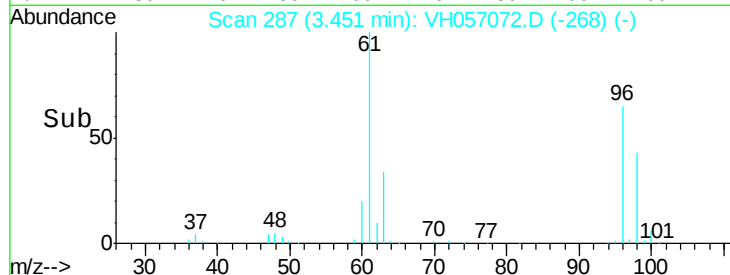
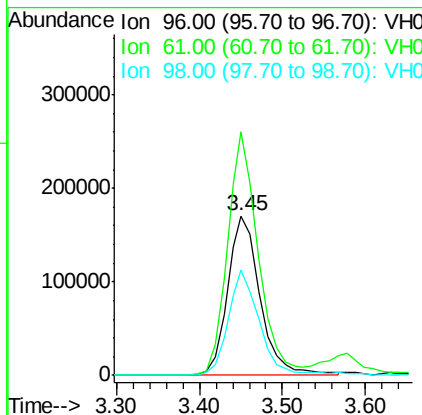
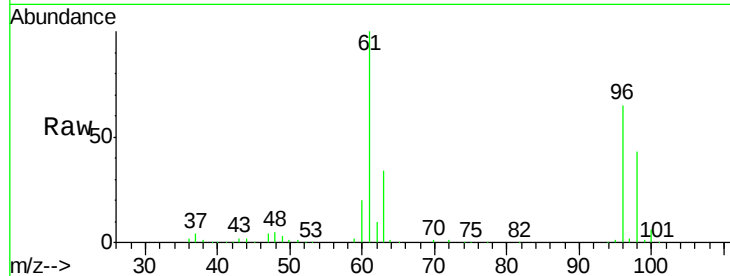
cis-1,2-Dichloroethene
Concen: 39.76 ug/l
RT: 3.45 min Scan# 287
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.0	115.4	173.0
98	66.1	49.7	74.5

Manual Integrations
APPROVED

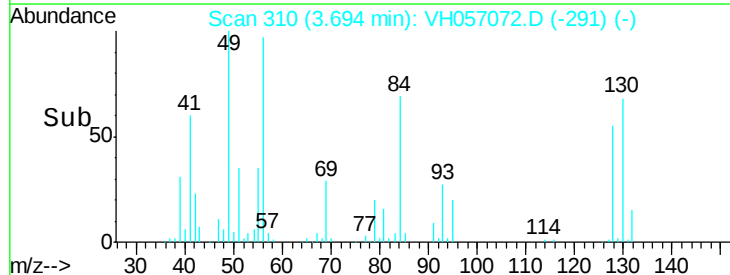
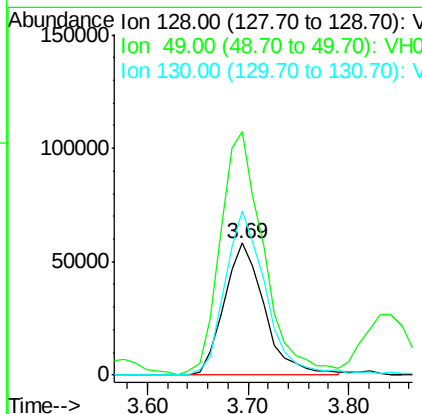
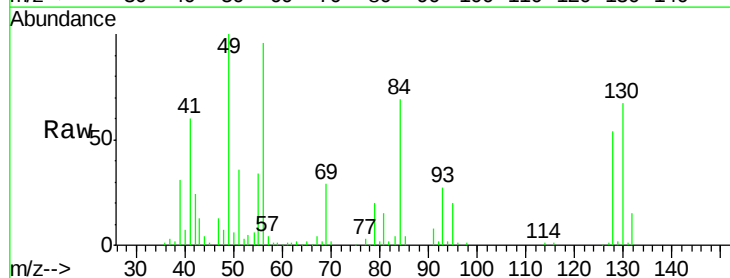
MMDadoda
9/18/2015 3:12:35 PM

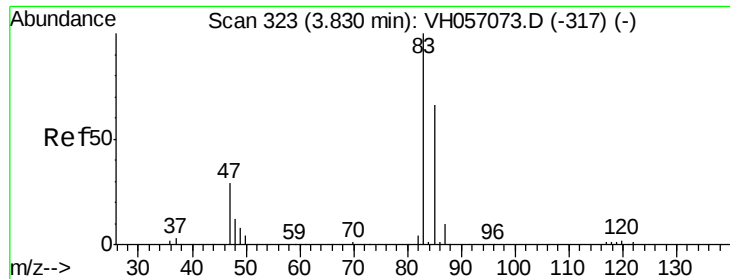


#28

Bromochloromethane
Concen: 37.12 ug/l
RT: 3.69 min Scan# 310
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Lower	Upper
128	100		
49	184.6	0.0	441.4
130	124.6	100.7	151.1





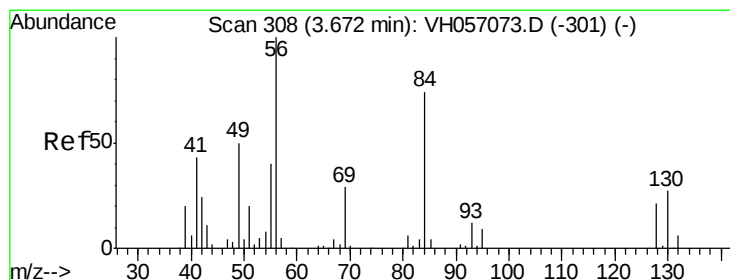
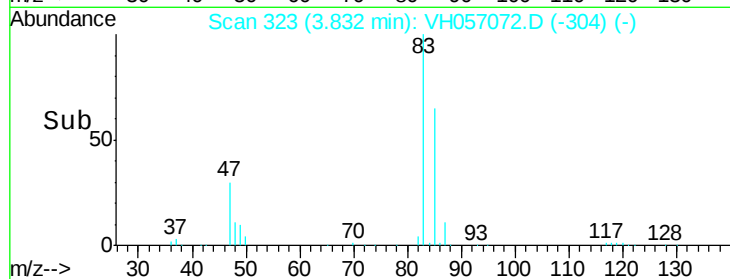
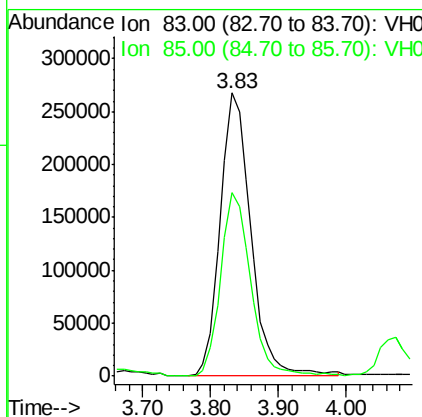
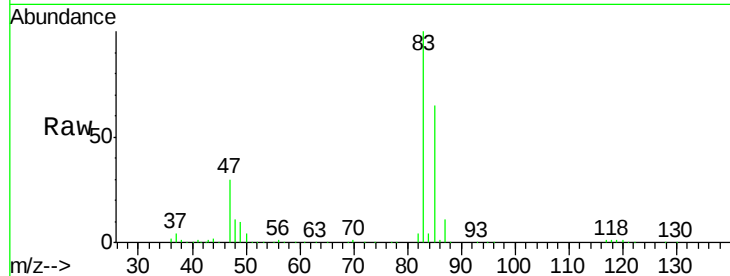
#29
Chloroform
Concen: 39.24 ug/l
RT: 3.83 min Scan# 323
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion	83	Resp	832244
Ion Ratio	100	Lower	Upper
83	100		
85	64.8	54.3	81.5

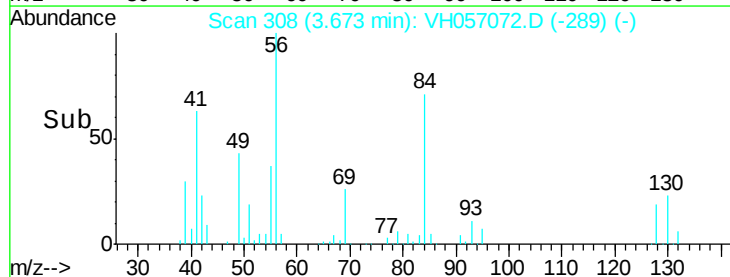
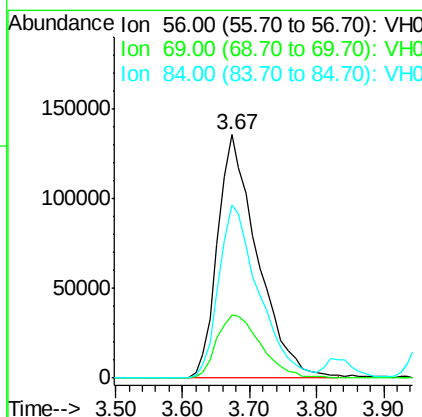
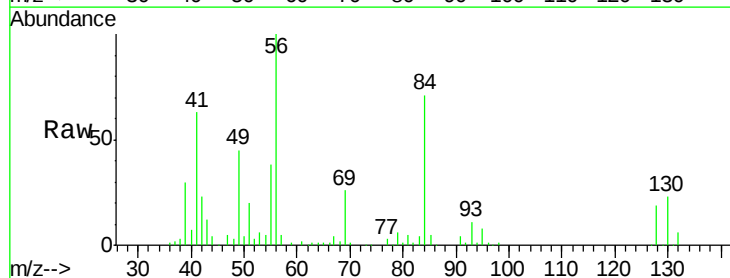
Manual Integrations
APPROVED

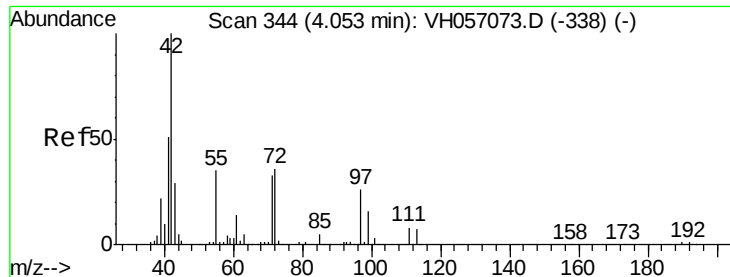
MMDadoda
9/18/2015 3:12:35 PM



#30
Cyclohexane
Concen: 36.31 ug/l
RT: 3.67 min Scan# 308
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion	56	Resp	561032
Ion Ratio	100	Lower	Upper
56	100		
69	25.8	18.1	33.7
84	71.1	0.0	136.8





#31

Tetrahydrofuran

Concen: 175.53 ug/l

RT: 4.05 min Scan# 344

Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 42 Resp: 1524556

Ion Ratio Lower Upper

42 100

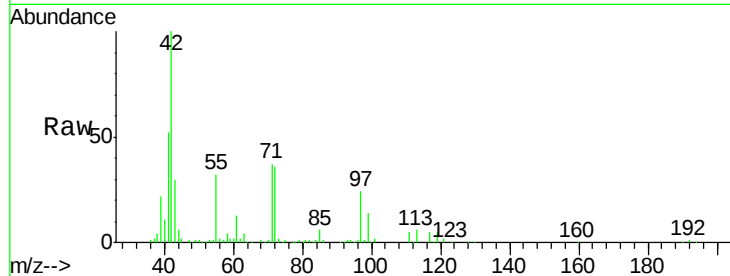
72 34.0 25.5 38.3

71 34.1 25.4 38.0

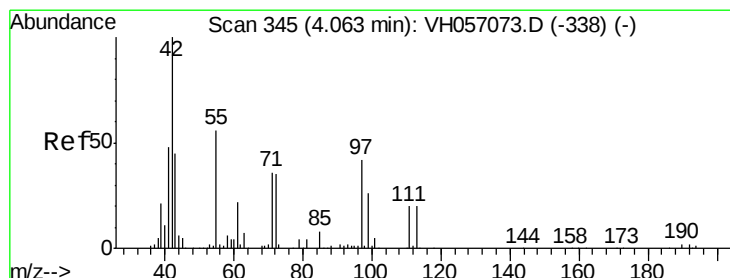
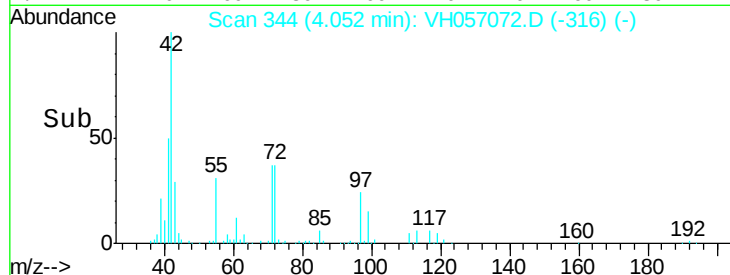
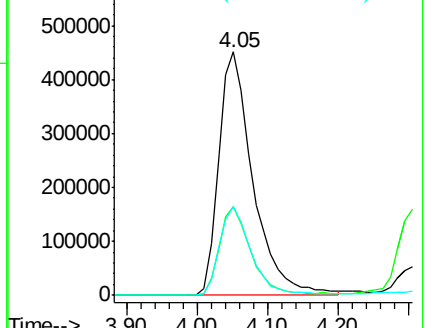
Manual Integrations
APPROVED

MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 42.00 (41.70 to 42.70): VH0
Ion 72.00 (71.70 to 72.70): VH0
Ion 71.00 (70.70 to 71.70): VH0



#32

1,1,1-Trichloroethane

Concen: 41.51 ug/l

RT: 4.07 min Scan# 346

Delta R.T. 0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

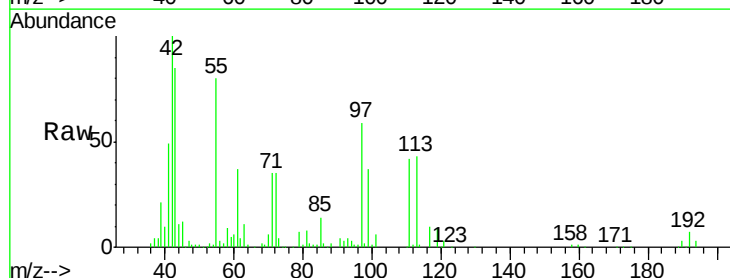
Tgt Ion: 97 Resp: 611261

Ion Ratio Lower Upper

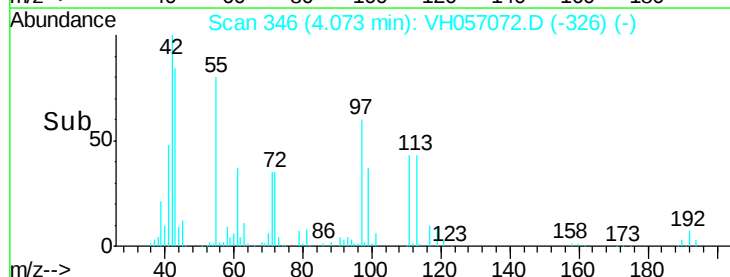
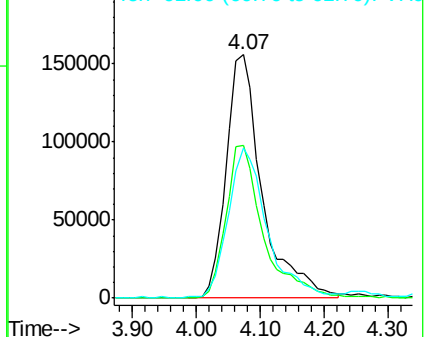
97 100

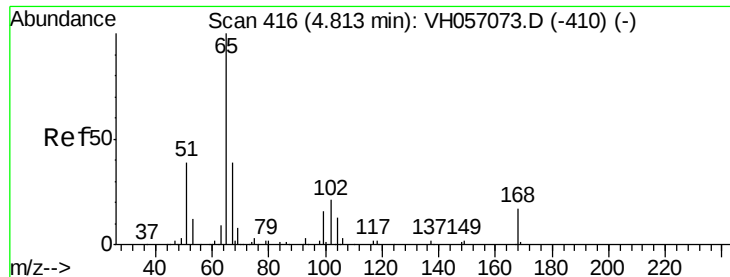
99 62.7 49.8 74.6

61 61.9 45.0 67.4



Abundance Ion 97.00 (96.70 to 97.70): VH0
Ion 99.00 (98.70 to 99.70): VH0
Ion 61.00 (60.70 to 61.70): VH0





#33

1,2-Dichloroethane-d4

Concen: 45.56 ug/l

RT: 4.81 min Scan# 416

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 65 Resp: 596855

Ion Ratio Lower Upper

65 100

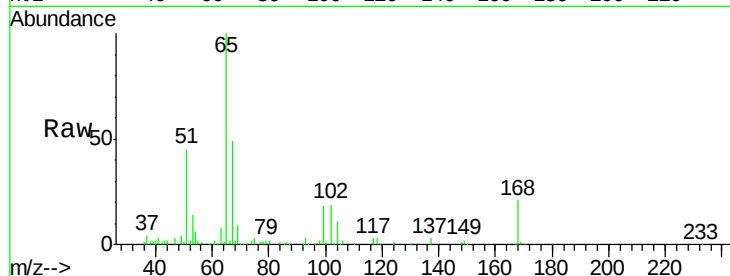
67 49.2 43.2 64.8

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 65.00 (64.70 to 65.70): VH0

Ion 67.00 (66.70 to 67.70): VH0

250000

200000

150000

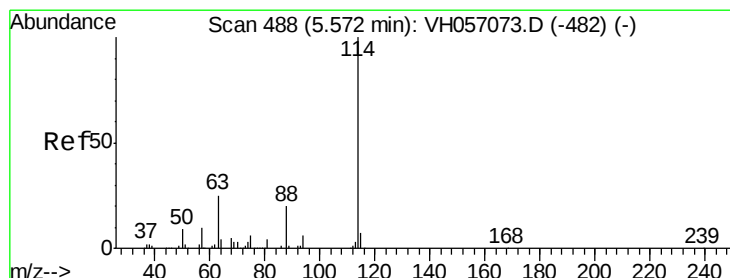
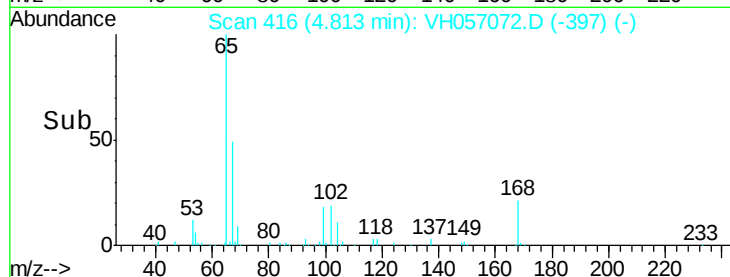
100000

50000

0

4.70 4.75 4.80 4.85 4.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.57 min Scan# 488

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

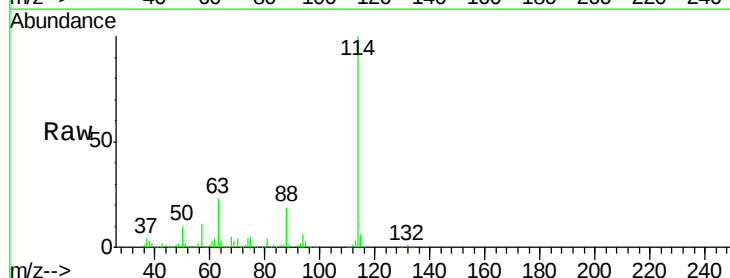
Tgt Ion: 114 Resp: 1519789

Ion Ratio Lower Upper

114 100

63 23.3 19.0 28.4

88 19.2 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

600000

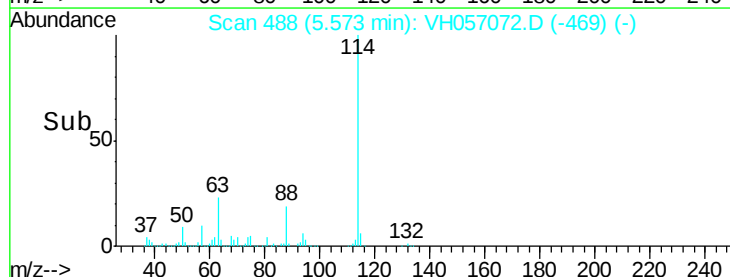
400000

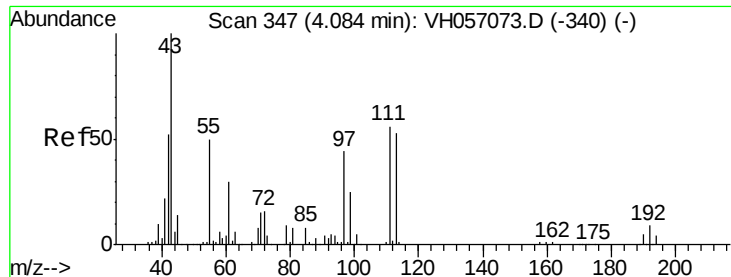
200000

0

5.40 5.50 5.60 5.70 5.80

Time-->





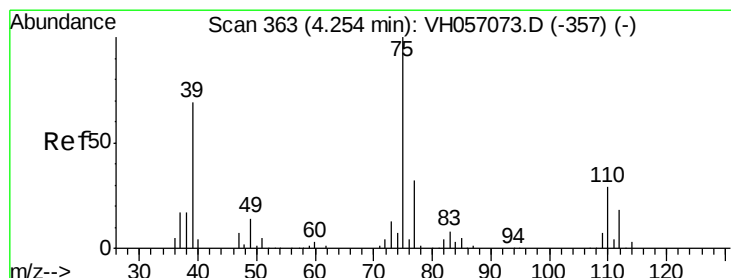
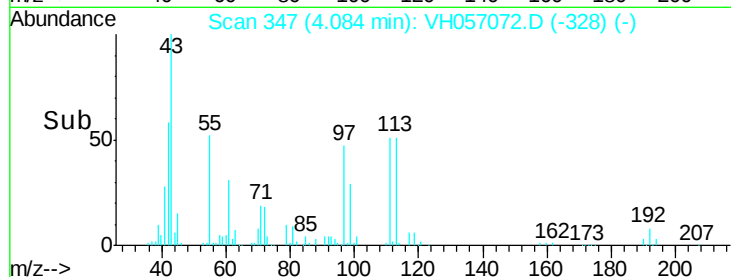
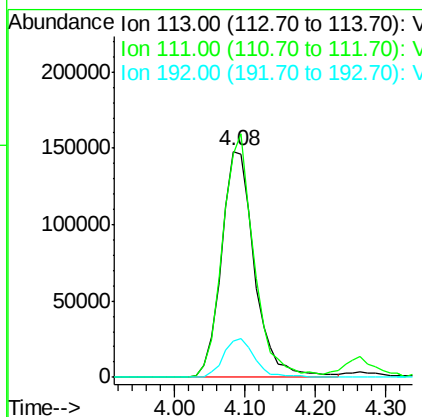
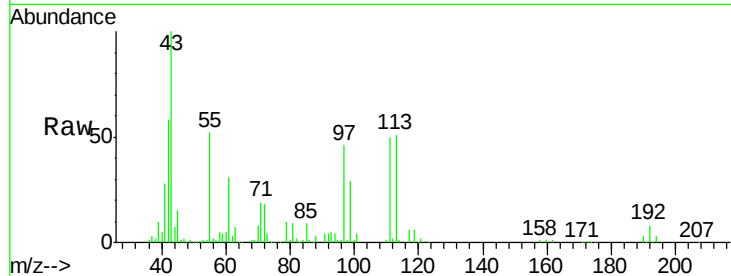
#35
Dibromofluoromethane
Concen: 43.86 ug/l
RT: 4.08 min Scan# 347
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion	Ratio	Resp	Lower	Upper
113	100	482505		
111	98.9	84.0	126.0	
192	16.0	13.6	20.4	

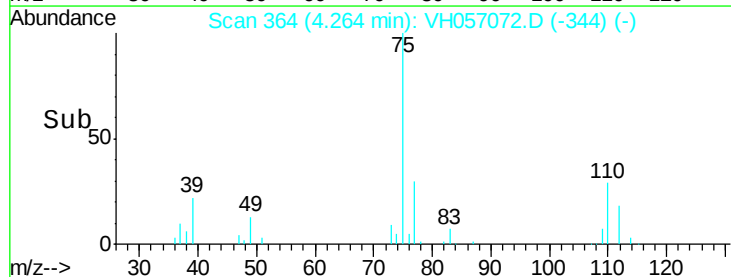
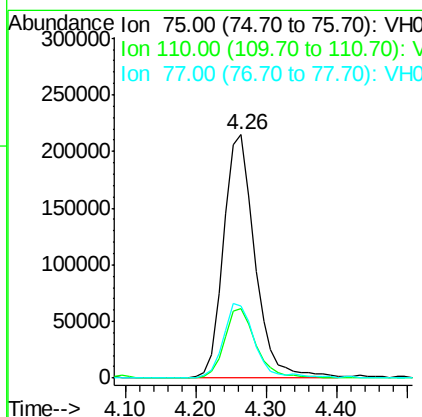
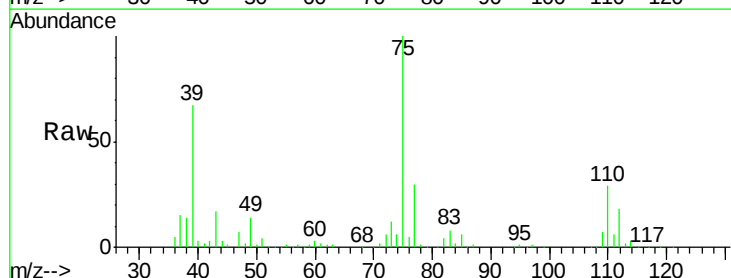
Manual Integrations
APPROVED

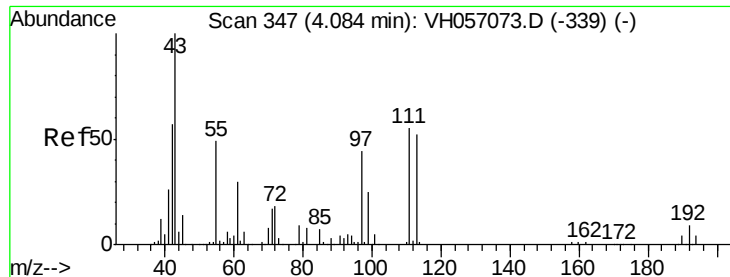
MMDadoda
9/18/2015 3:12:35 PM



#36
1,1-Dichloropropene
Concen: 42.38 ug/l
RT: 4.26 min Scan# 364
Delta R.T. 0.01 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	660457		
110	28.7	13.7	41.1	
77	29.8	24.0	36.0	





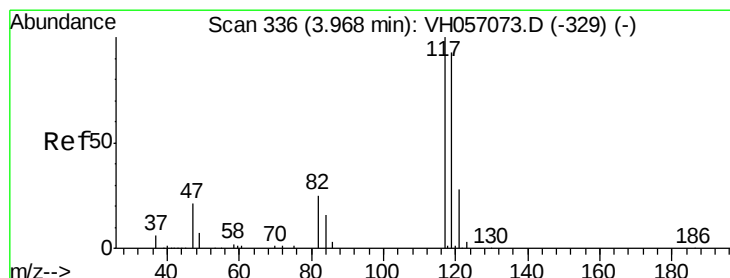
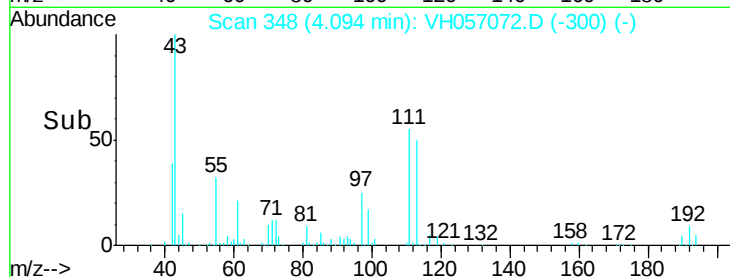
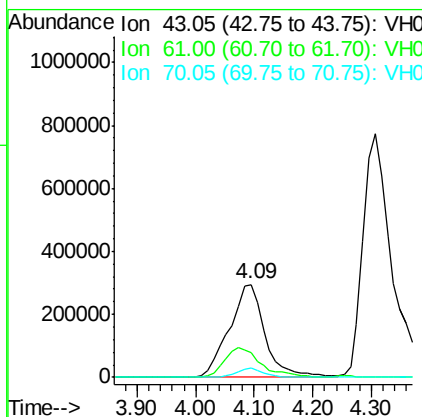
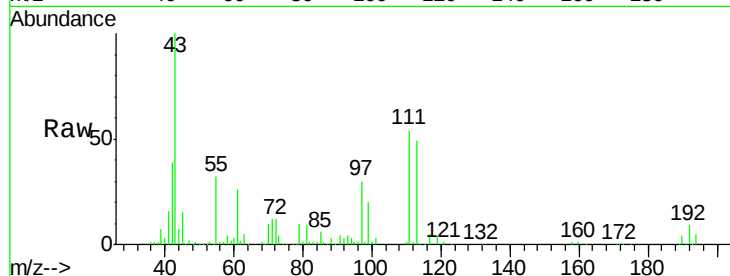
#37
Ethyl acetate
Concen: 37.63 ug/l
RT: 4.09 min Scan# 348
Delta R.T. 0.01 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion: 43 Resp: 1226549
Ion Ratio Lower Upper
43 100
61 0.0 23.9 35.9#
70 7.3 5.4 8.0

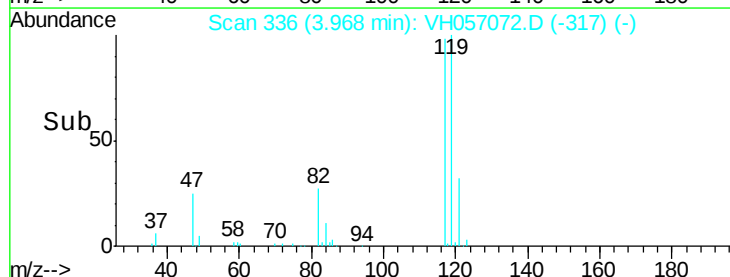
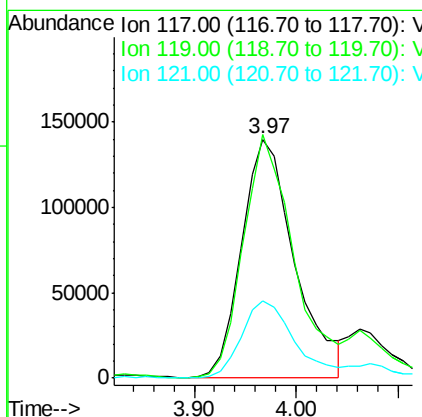
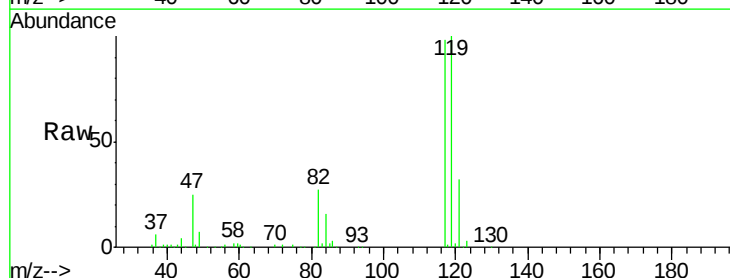
Manual Integrations
APPROVED

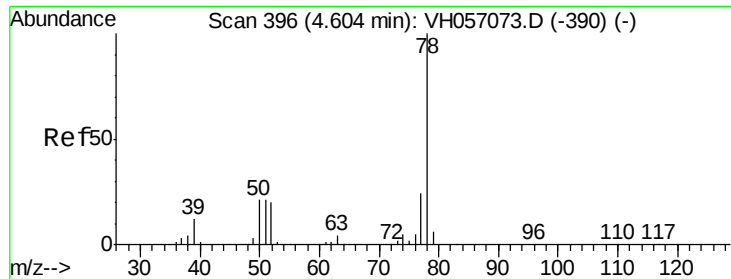
MMDadoda
9/18/2015 3:12:35 PM



#38
Carbon Tetrachloride
Concen: 41.01 ug/l
RT: 3.97 min Scan# 336
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion: 117 Resp: 503743
Ion Ratio Lower Upper
117 100
119 101.9 78.7 118.1
121 32.4 25.9 38.9





#39

Benzene

Concen: 39.32 ug/l

RT: 4.61 min Scan# 397

Delta R.T. 0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 78 Resp: 1539626

Ion Ratio Lower Upper

78 100

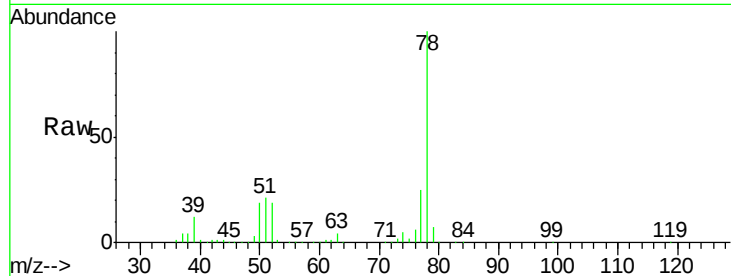
77 25.2 18.5 27.7

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 78.10 (77.80 to 78.80): VH0

Ion 77.00 (76.70 to 77.70): VH0

600000

500000

400000

300000

200000

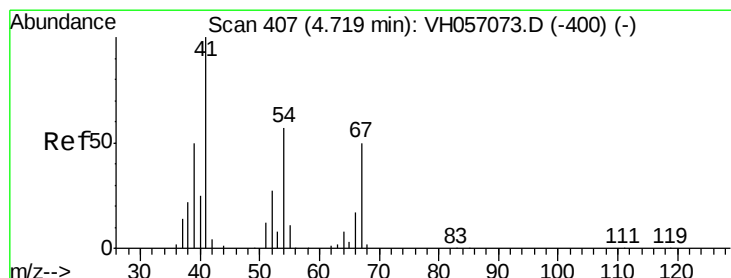
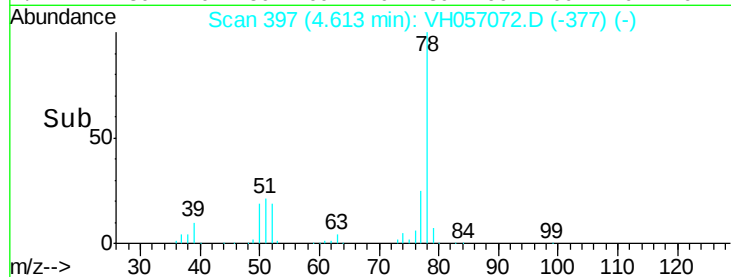
100000

0

4.61

4.50 4.60 4.70 4.80

Time-->



#40

Methacrylonitrile

Concen: 36.49 ug/l

RT: 4.72 min Scan# 407

Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tgt Ion: 41 Resp: 551895

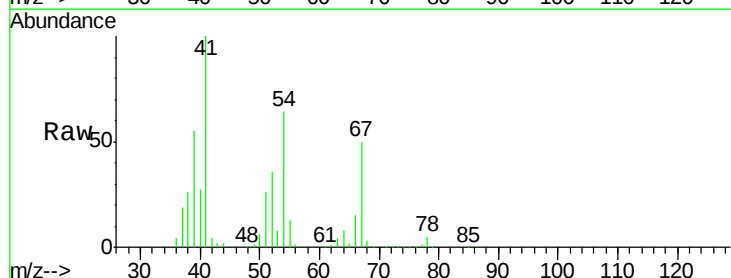
Ion Ratio Lower Upper

41 100

39 55.2 25.1 75.2

67 49.7 22.5 67.5

52 36.4 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

250000

200000

150000

100000

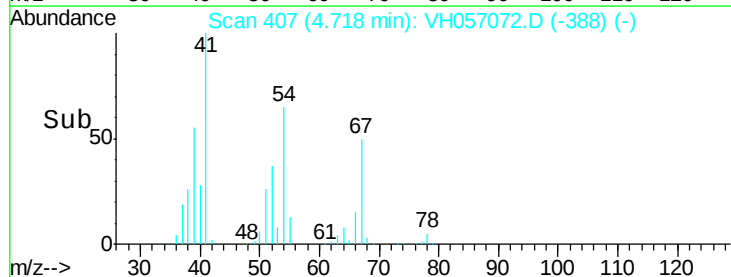
50000

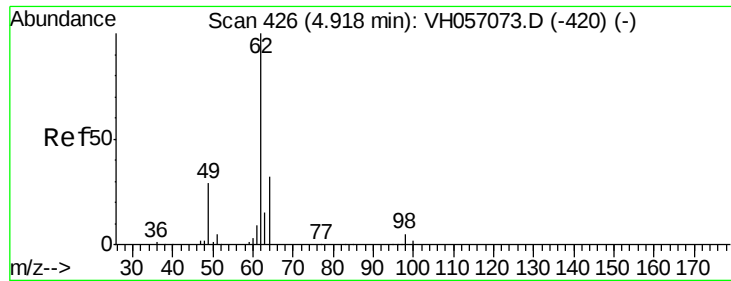
0

4.72

4.60 4.70 4.80 4.90

Time-->





#41

1,2-Dichloroethane

Concen: 40.44 ug/l

RT: 4.91 min Scan# 425

Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 62 Resp: 678746

Ion Ratio Lower Upper

62 100

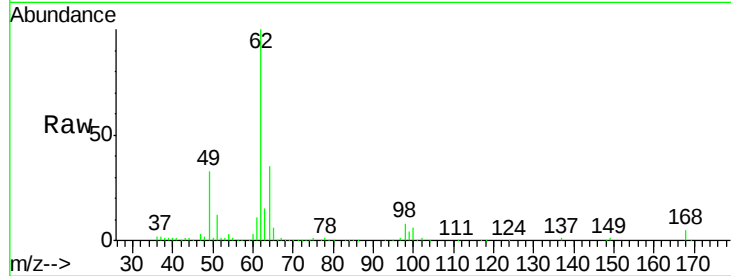
98 8.4 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 98.00 (97.70 to 98.70): VH0

250000

200000

150000

100000

50000

0

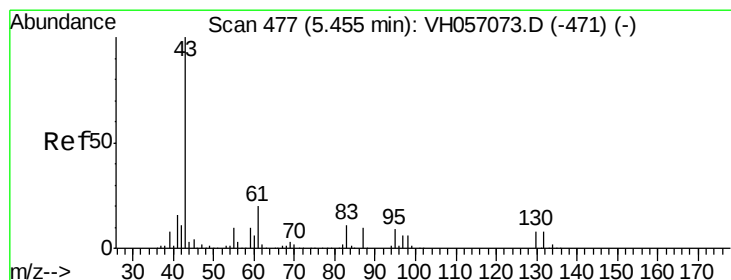
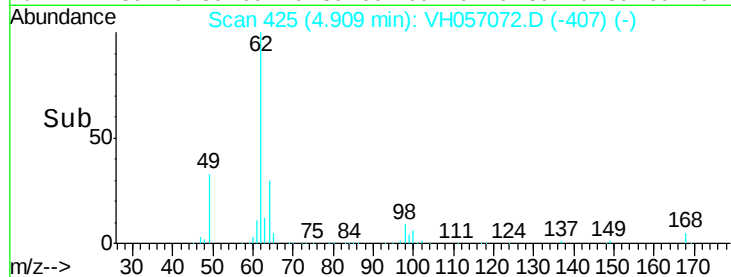
4.80

4.90

5.00

5.10

Time-->



#42

Isopropyl Acetate

Concen: 37.94 ug/l

RT: 5.46 min Scan# 477

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

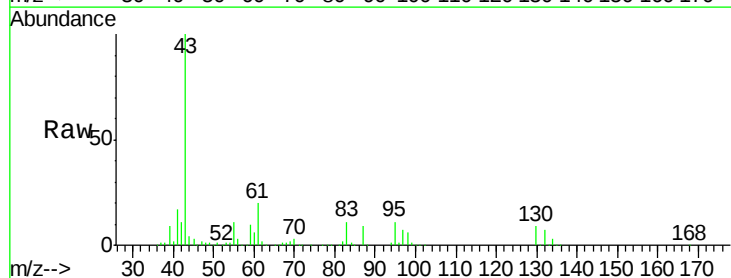
Tgt Ion: 43 Resp: 1598534

Ion Ratio Lower Upper

43 100

61 20.1 15.8 23.6

87 8.5 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

600000

400000

200000

0

5.30

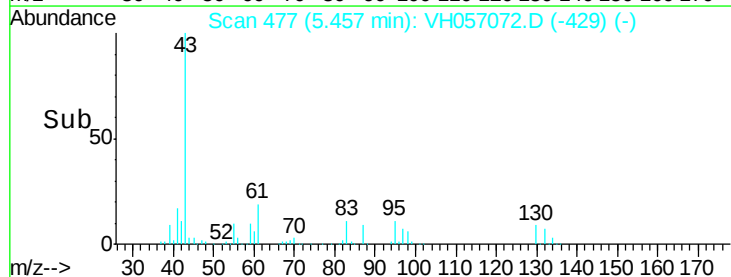
5.40

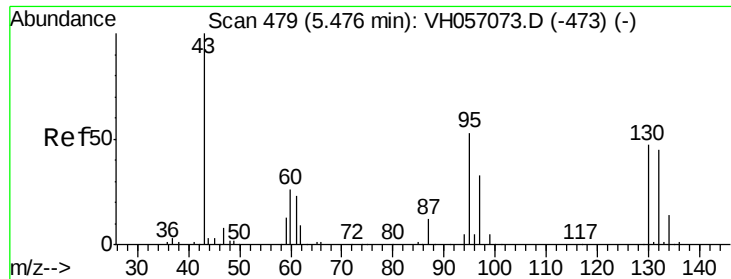
5.50

5.60

5.70

Time-->





#43

Trichloroethene

Concen: 40.34 ug/l

RT: 5.48 min Scan# 479

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion:130 Resp: 392836

Ion Ratio Lower Upper

130 100

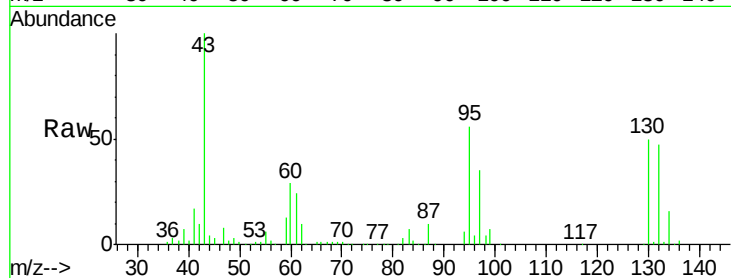
95 112.1 84.0 126.0

Manual Integrations

APPROVED

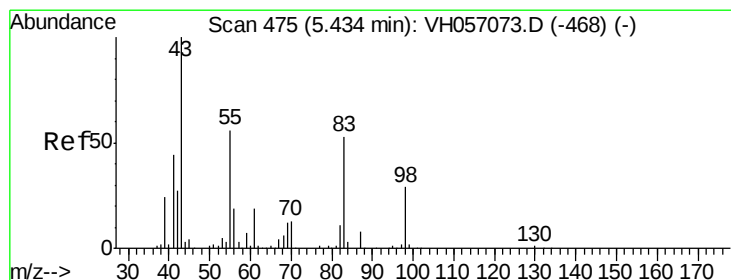
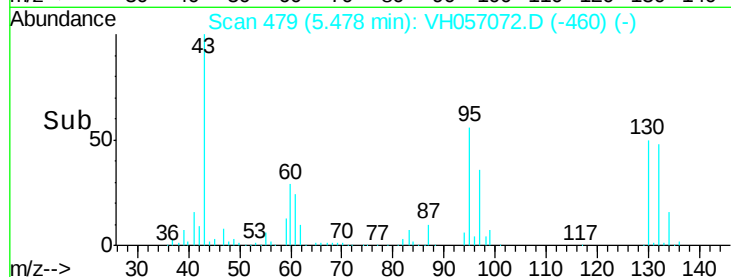
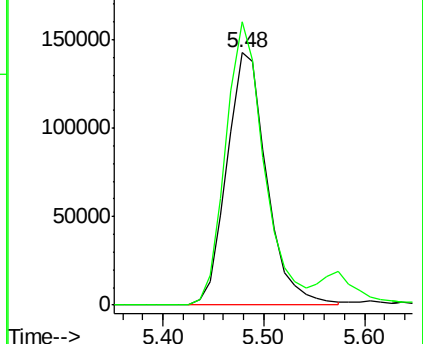
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VHC



#44

Methylcyclohexane

Concen: 37.81 ug/l

RT: 5.44 min Scan# 475

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

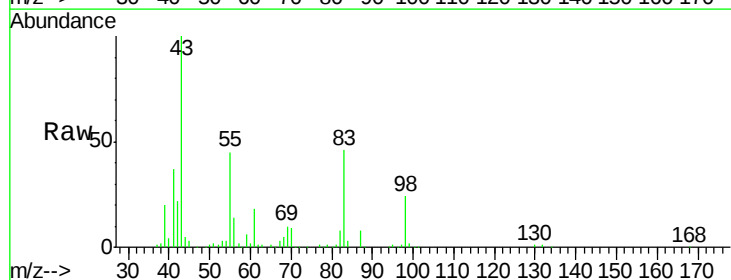
Tgt Ion: 83 Resp: 364707

Ion Ratio Lower Upper

83 100

55 98.9 0.0 207.2

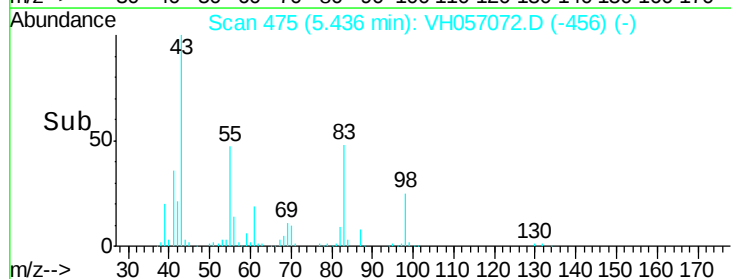
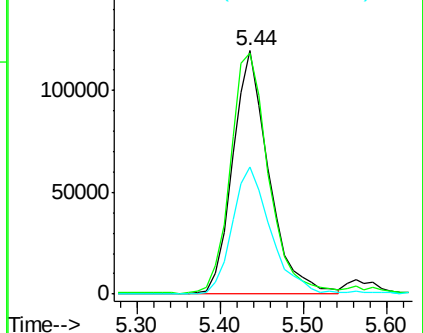
98 52.0 0.0 108.4

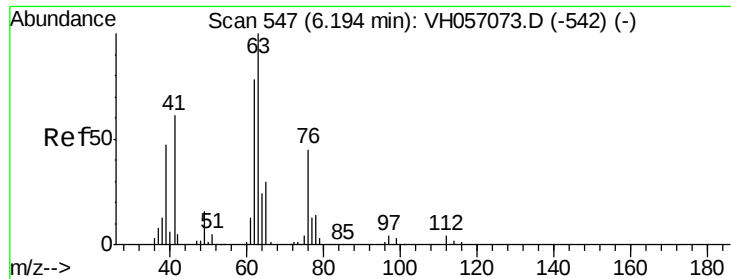


Abundance Ion 83.00 (82.70 to 83.70): VHC

Ion 55.00 (54.70 to 55.70): VHC

Ion 98.00 (97.70 to 98.70): VHC





#45

1,2-Dichloropropane

Concen: 38.85 ug/l

RT: 6.20 min Scan# 547

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 63 Resp: 489281

Ion Ratio Lower Upper

63 100

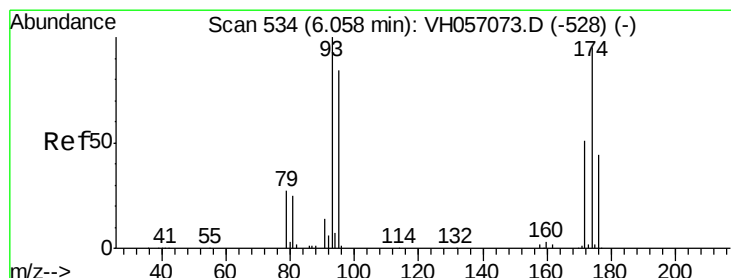
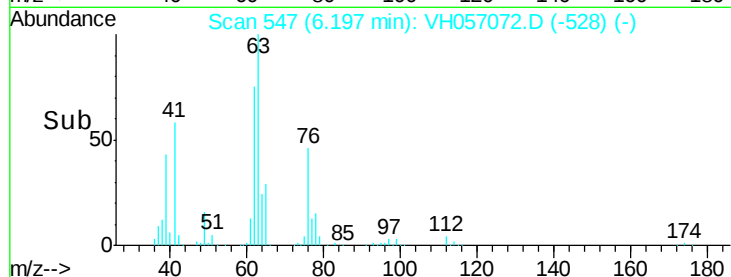
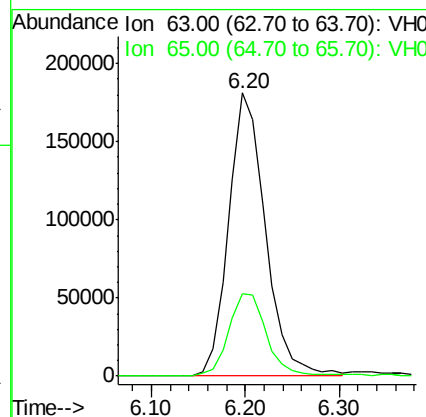
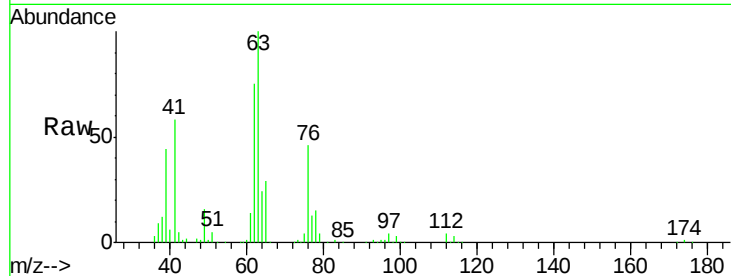
65 29.2 23.8 35.8

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



#46

Dibromomethane

Concen: 41.60 ug/l

RT: 6.06 min Scan# 534

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

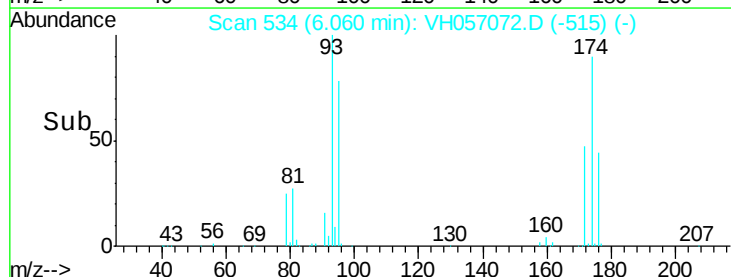
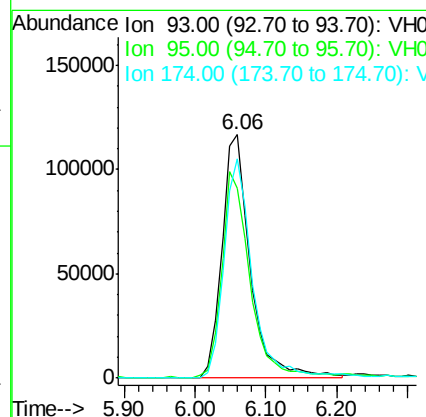
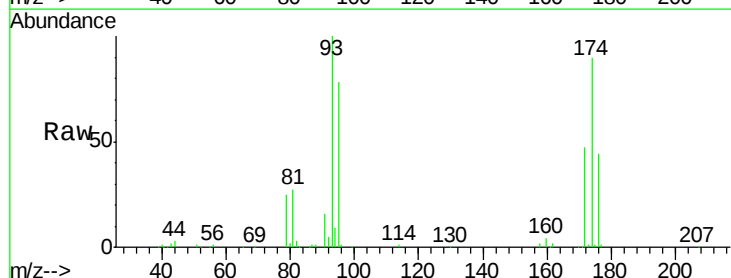
Tgt Ion: 93 Resp: 329215

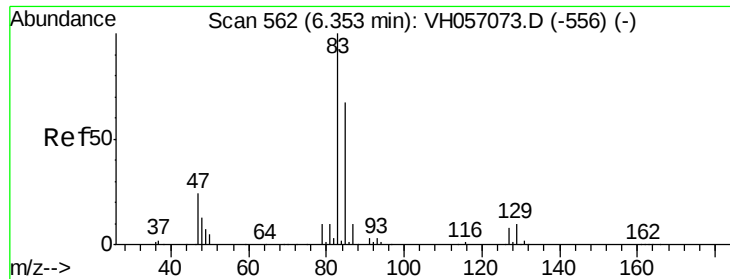
Ion Ratio Lower Upper

93 100

95 78.1 69.5 104.3

174 90.0 75.8 113.6





#47

Bromodichloromethane

Concen: 41.41 ug/l

RT: 6.36 min Scan# 562

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

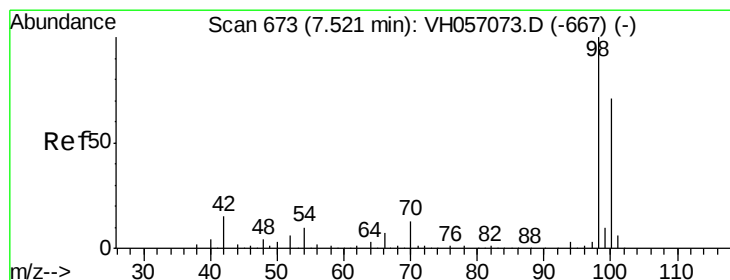
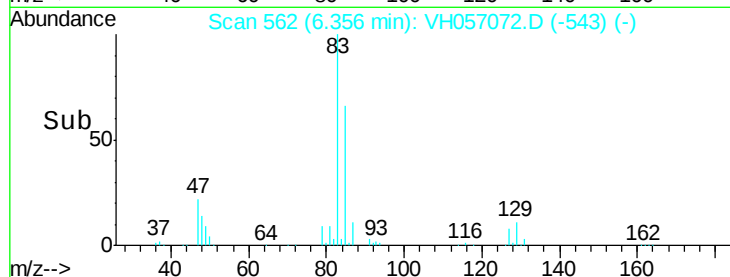
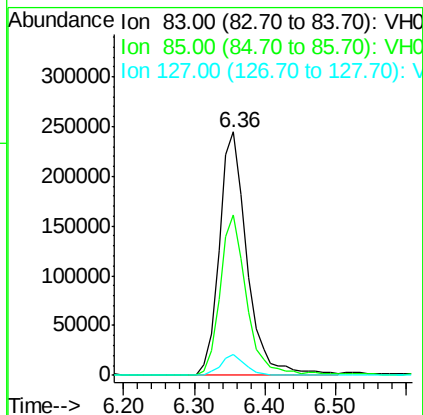
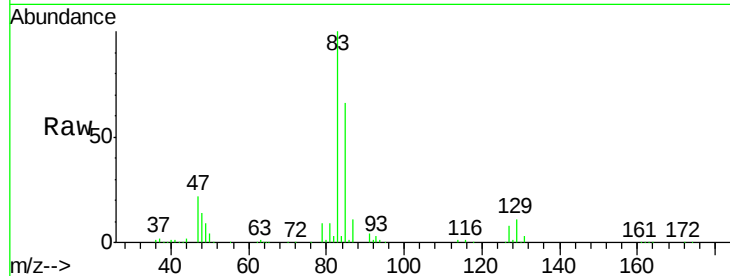
ClientSampleId :

VSTDIC040

Tot Ion:	83	Resp:	669062
Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.6	78.8
127	8.4	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM



#48

Toluene-d8

Concen: 47.85 ug/l

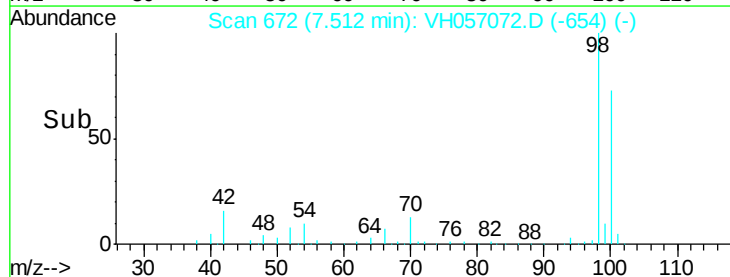
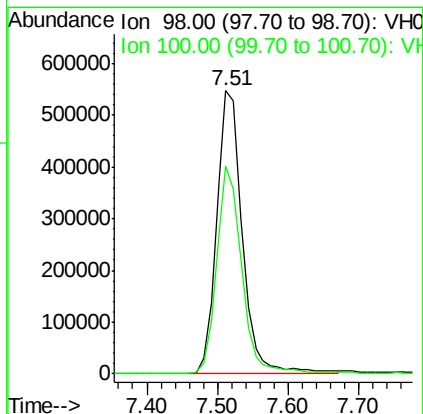
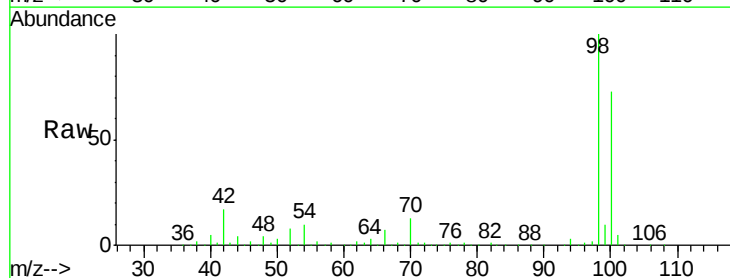
RT: 7.51 min Scan# 672

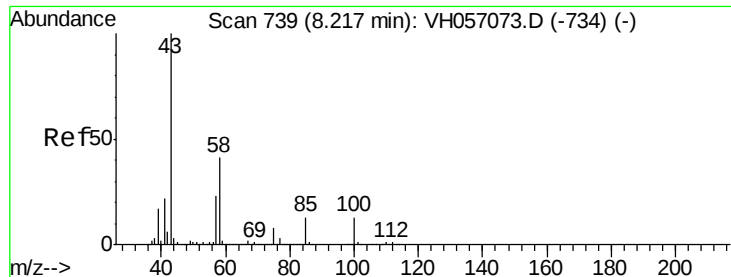
Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tgt Ion:	98	Resp:	1397319
Ion	Ratio	Lower	Upper
98	100		
100	73.4	56.7	85.1





#49

4-Methyl-2-Pentanone

Concen: 186.16 ug/l

RT: 8.21 min Scan# 738

Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 43 Resp: 4809049

Ion Ratio Lower Upper

43 100

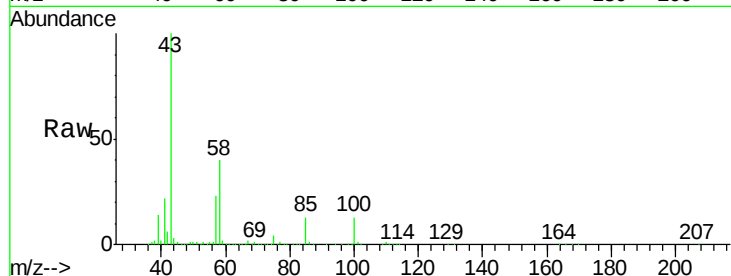
58 40.4 20.0 60.0

Manual Integrations

APPROVED

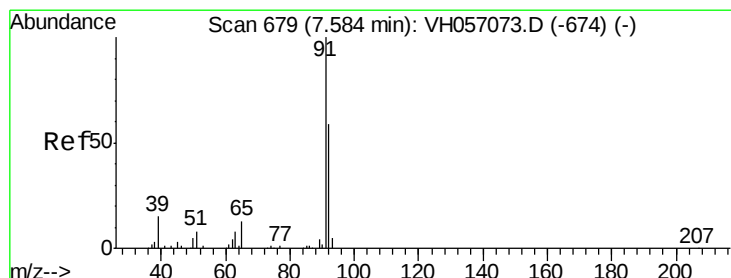
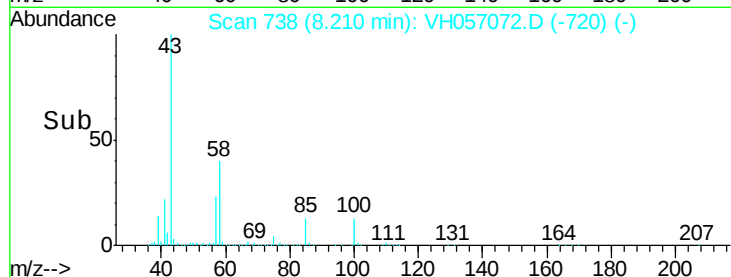
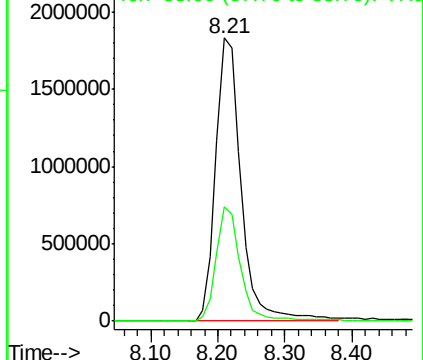
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 58.00 (57.70 to 58.70): VH0



#50

Toluene

Concen: 39.72 ug/l

RT: 7.59 min Scan# 679

Delta R.T. 0.00 min

Lab File: VH057072.D

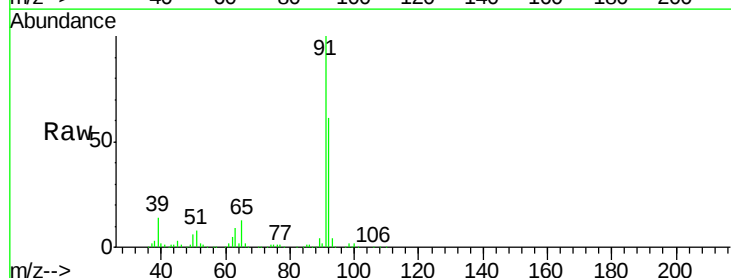
Acq: 17 Sep 2015 18:08

Tgt Ion: 92 Resp: 994555

Ion Ratio Lower Upper

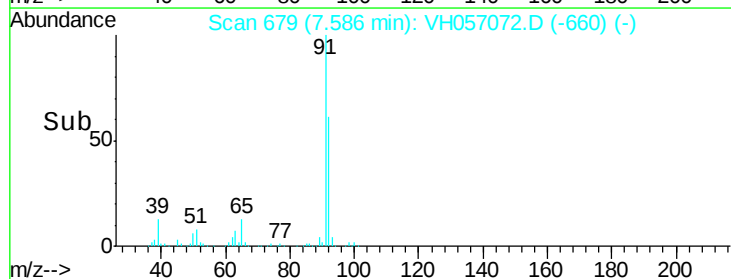
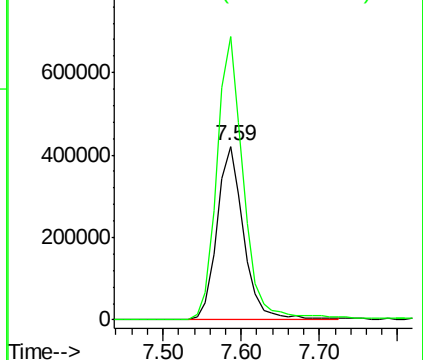
92 100

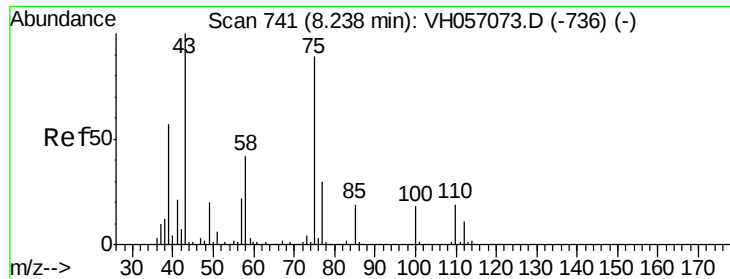
91 162.8 125.8 188.6



Abundance Ion 92.00 (91.70 to 92.70): VH0

Ion 91.00 (90.70 to 91.70): VH0





#51

t-1,3-Dichloropropene

Concen: 42.56 ug/l

RT: 8.23 min Scan# 740

Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tot Ion: 75 Resp: 791710

Ion Ratio Lower Upper

75 100

77 30.9 26.2 39.2

Instrument :

MSVOA_H

ClientSampleId :

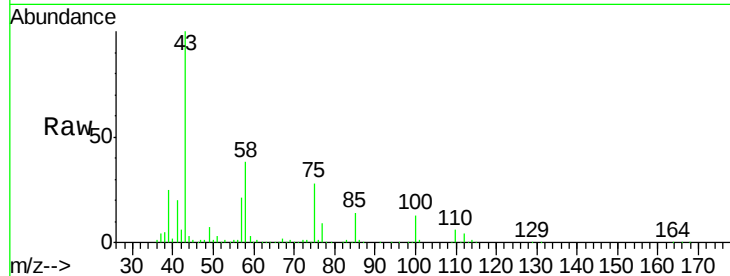
VSTDIC040

Manual Integrations

APPROVED

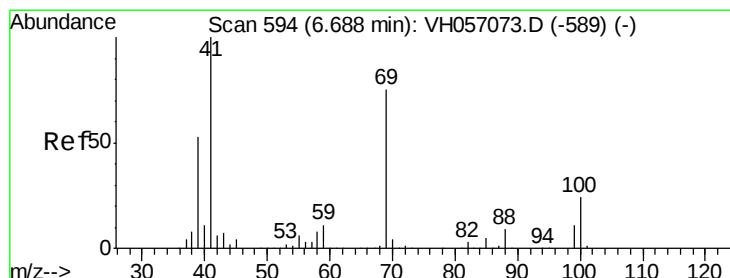
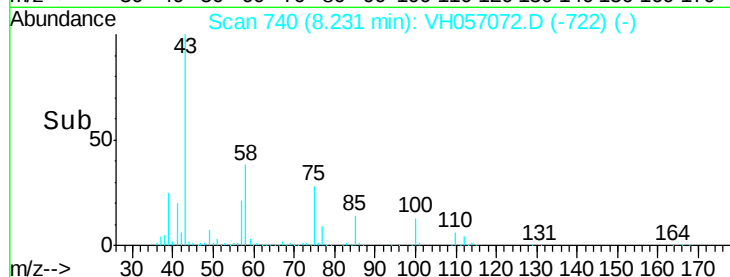
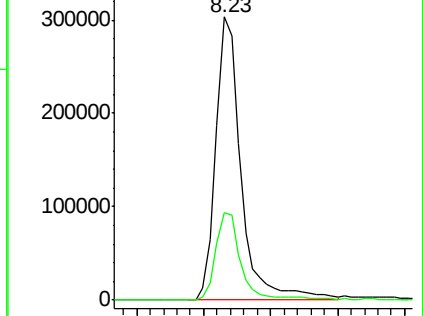
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 75.00 (74.70 to 75.70): VH0

Ion 77.00 (76.70 to 77.70): VH0



#52

Methyl Methacrylate

Concen: 38.91 ug/l

RT: 6.69 min Scan# 594

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

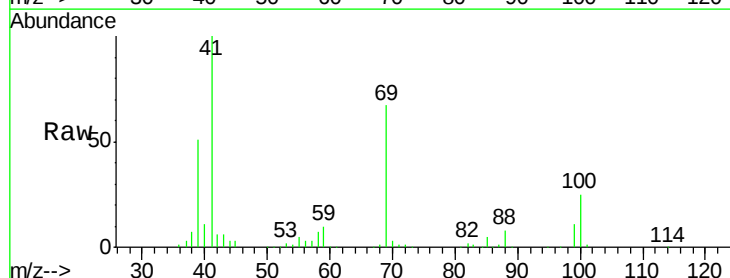
Tgt Ion: 69 Resp: 494108

Ion Ratio Lower Upper

69 100

41 150.2 70.0 209.8

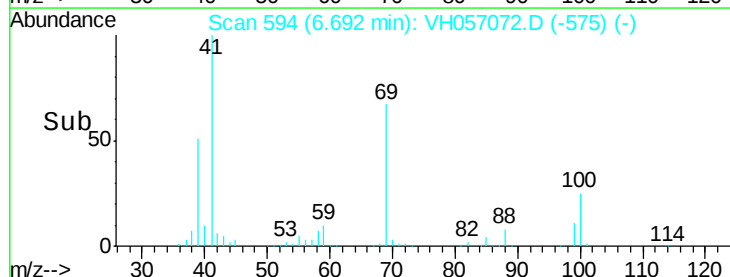
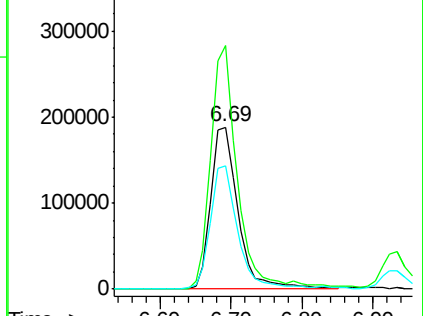
39 76.0 37.5 112.5

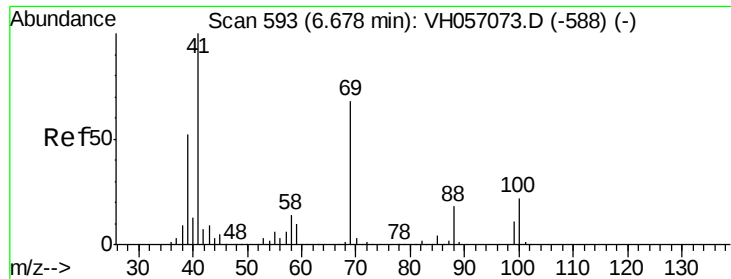


Abundance Ion 69.00 (68.70 to 69.70): VH0

Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0





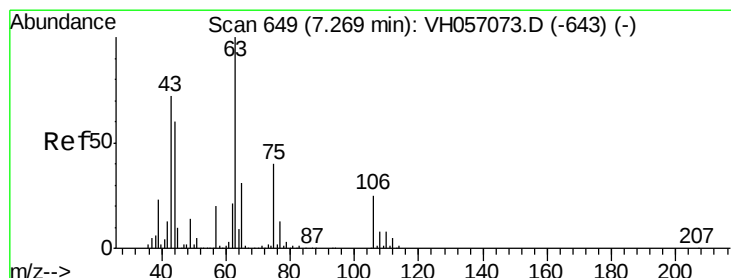
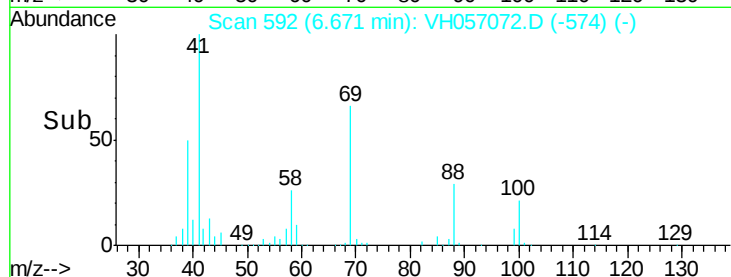
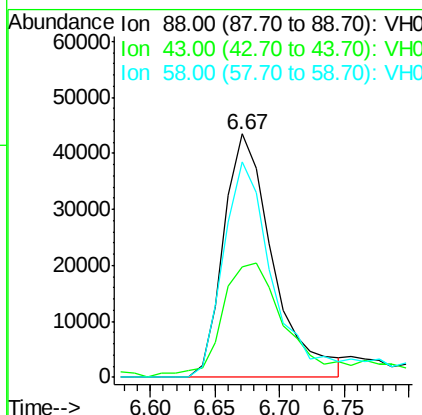
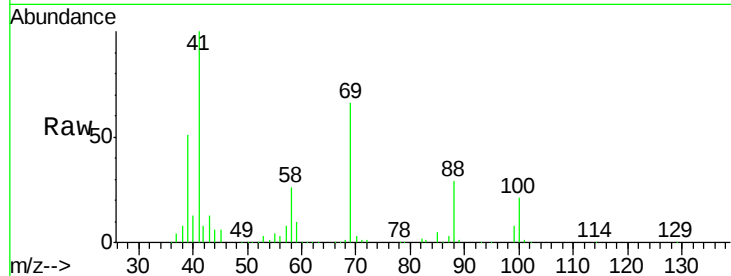
#53
1,4-Dioxane
Concen: 923.86 ug/l
RT: 6.67 min Scan# 592
Delta R.T. -0.01 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDICC040

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	45.1	39.6	59.4	
58	88.5	61.4	92.2	

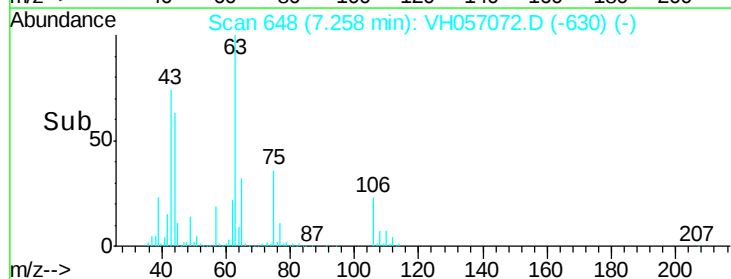
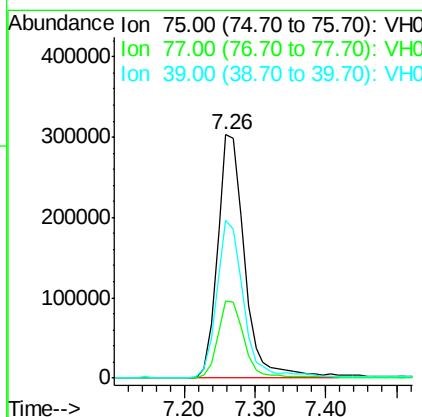
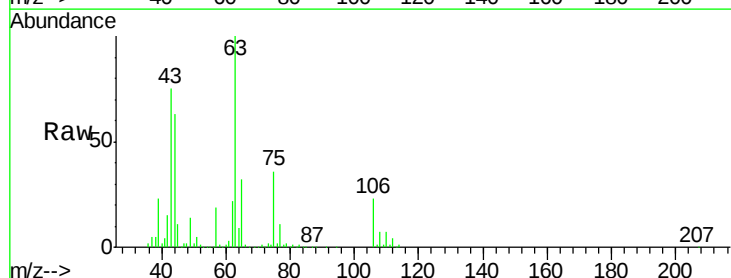
Manual Integrations
APPROVED

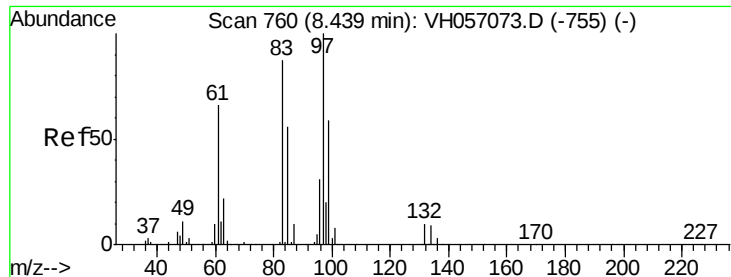
MMDadoda
9/18/2015 3:12:35 PM



#54
cis-1,3-Dichloropropene
Concen: 40.23 ug/l
RT: 7.26 min Scan# 648
Delta R.T. -0.01 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
77	31.5	25.2	37.8	
39	64.6	50.7	76.1	





#55

1,1,2-Trichloroethane

Concen: 41.06 ug/l

RT: 8.44 min Scan# 760

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

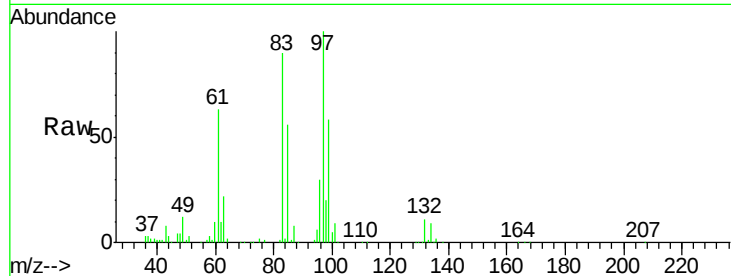
ClientSampleId :

VSTDIC040

Tot Ion:	97	Resp:	418564
Ion	Ratio	Lower	Upper
97	100		
83	90.0	72.7	109.1
85	56.1	45.5	68.3
99	58.0	46.2	69.2

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM

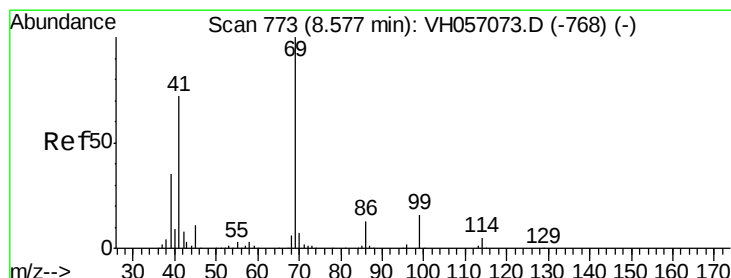
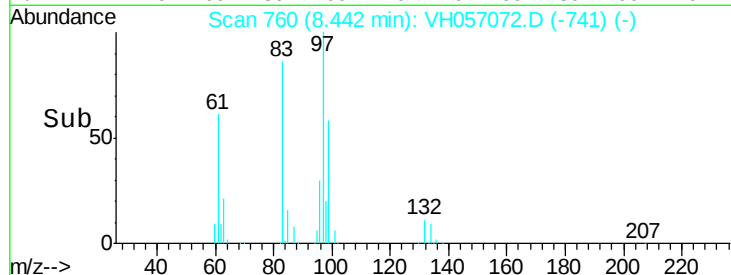
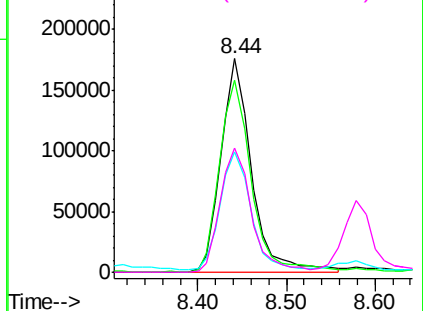


Abundance Ion 97.00 (96.70 to 97.70): VH0

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: 41.51 ug/l

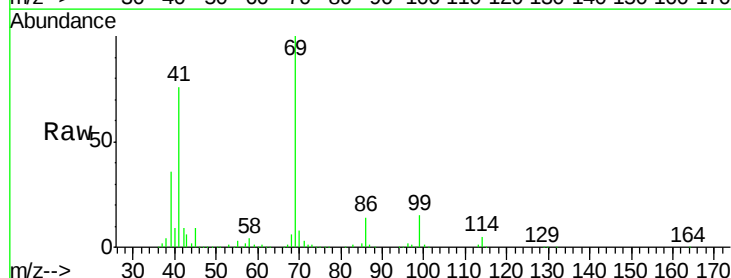
RT: 8.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

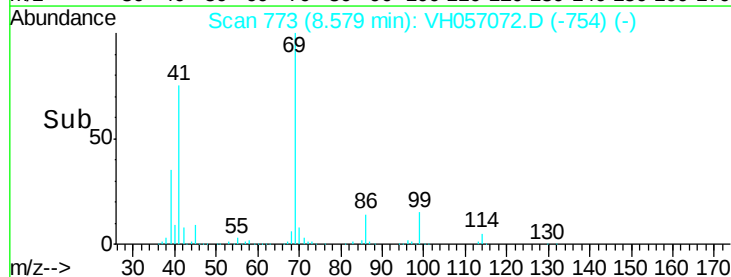
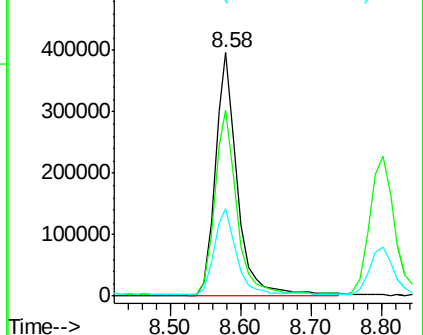
Tgt Ion:	69	Resp:	877769
Ion	Ratio	Lower	Upper
69	100		
41	76.3	39.1	117.3
39	35.7	19.2	57.6

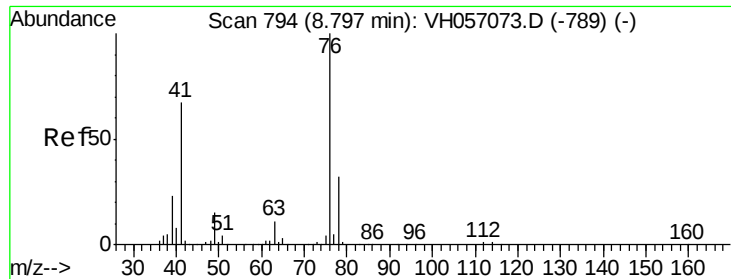


Abundance Ion 69.00 (68.70 to 69.70): VH0

Ion 41.00 (40.70 to 41.70): VH0

Ion 39.00 (38.70 to 39.70): VH0





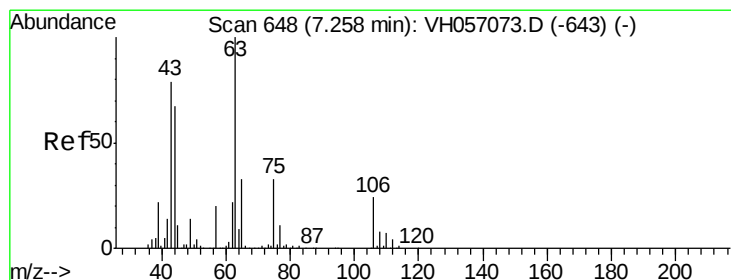
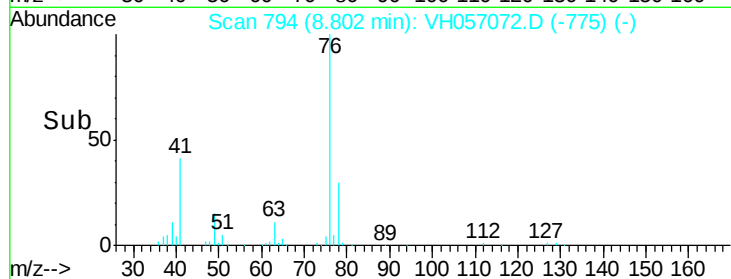
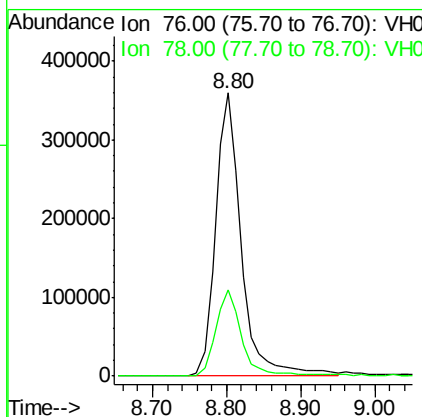
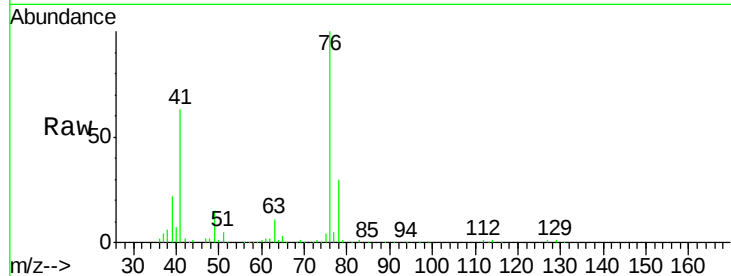
#57
 1,3-Dichloropropane
 Concen: 40.85 ug/l
 RT: 8.80 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Tot Ion	Ratio	Lower	Upper
76	100		
78	30.3	25.7	38.5

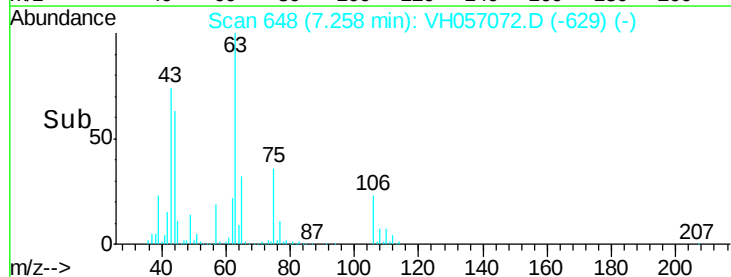
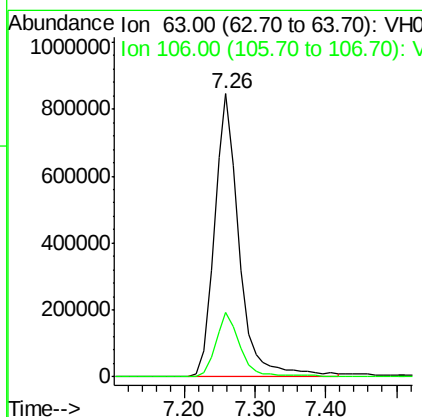
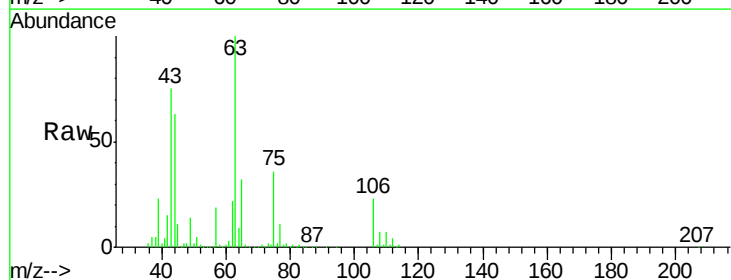
Manual Integrations
 APPROVED

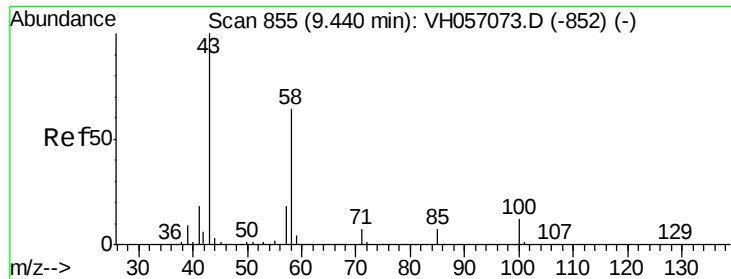
MMDadoda
 9/18/2015 3:12:35 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 113.91 ug/l
 RT: 7.26 min Scan# 648
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Lower	Upper
63	100		
106	22.8	18.0	27.0





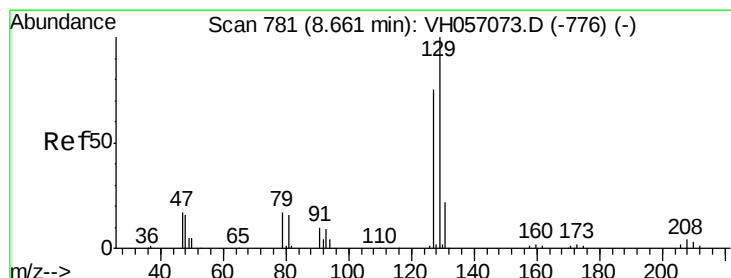
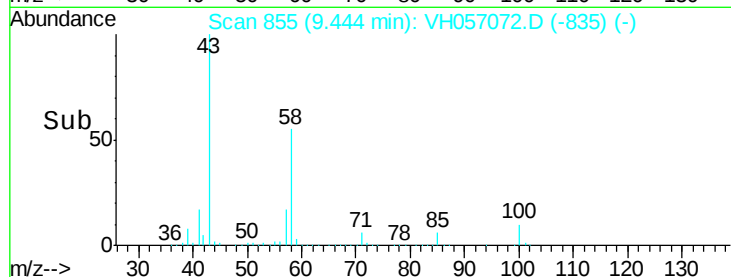
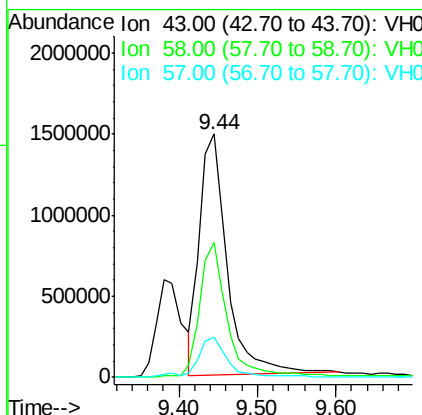
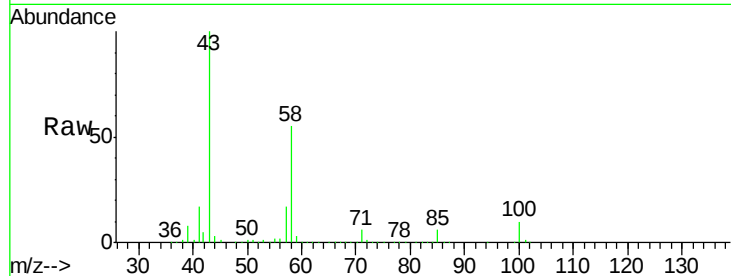
#59
2-Hexanone
Concen: 194.79 ug/l
RT: 9.44 min Scan# 855
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion: 43 Resp: 3668930
Ion Ratio Lower Upper
43 100
58 55.3 27.1 81.2
57 16.7 8.1 24.3

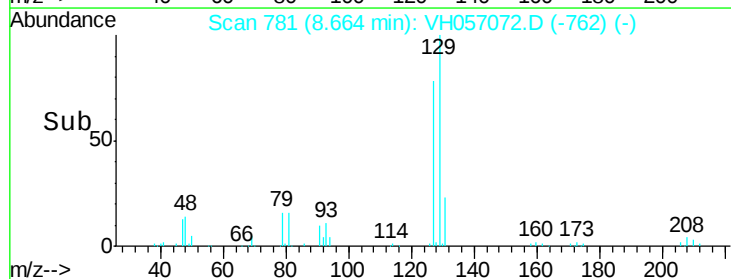
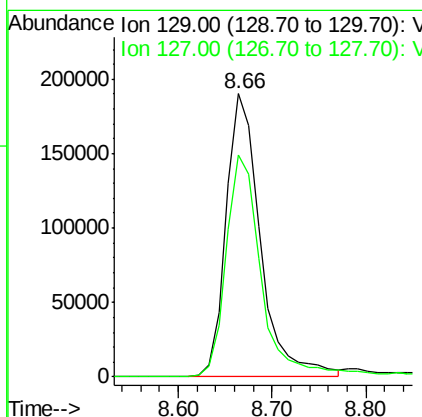
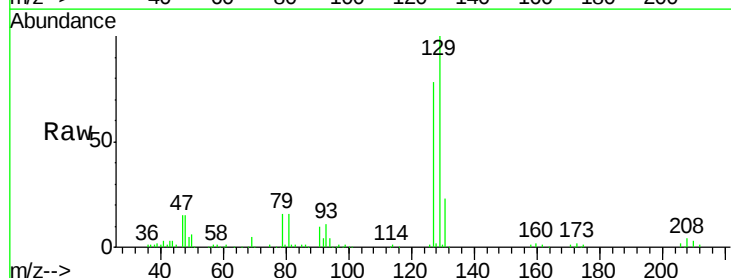
Manual Integrations
APPROVED

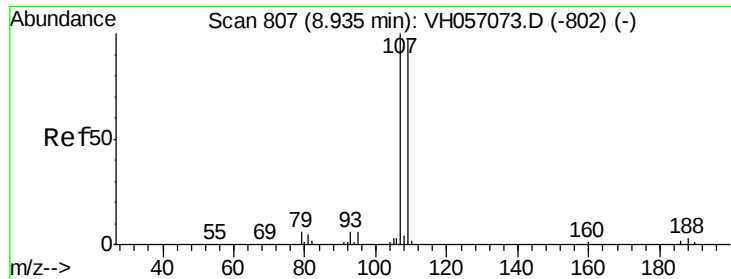
MMDadoda
9/18/2015 3:12:35 PM



#60
Dibromochloromethane
Concen: 42.06 ug/l
RT: 8.66 min Scan# 781
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion: 129 Resp: 486698
Ion Ratio Lower Upper
129 100
127 78.4 38.5 115.3





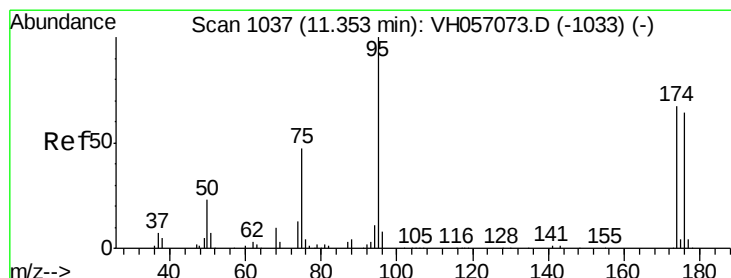
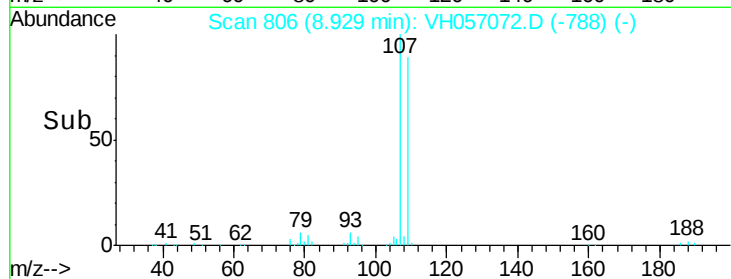
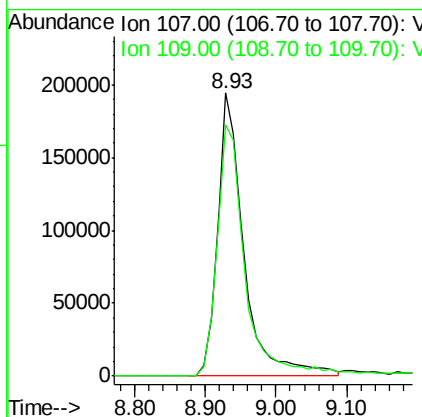
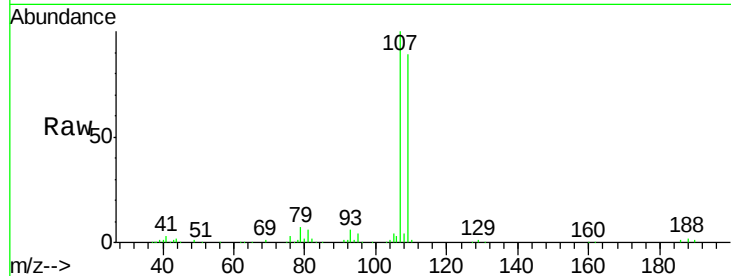
#61
 1,2-Dibromoethane
 Concen: 42.51 ug/l
 RT: 8.93 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Tot Ion	Ratio	Lower	Upper
107	100		
109	88.8	77.7	116.5

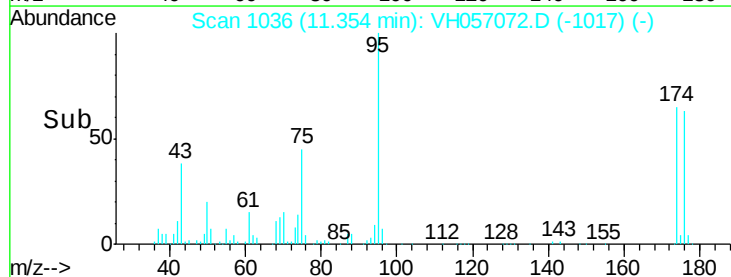
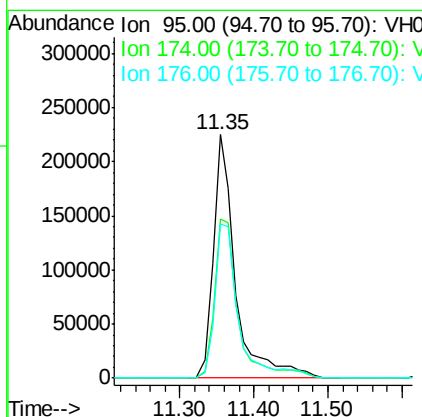
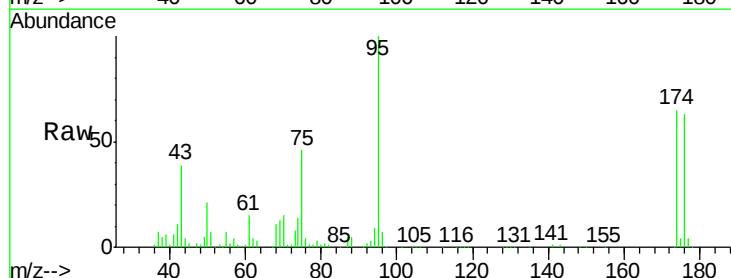
Manual Integrations
 APPROVED

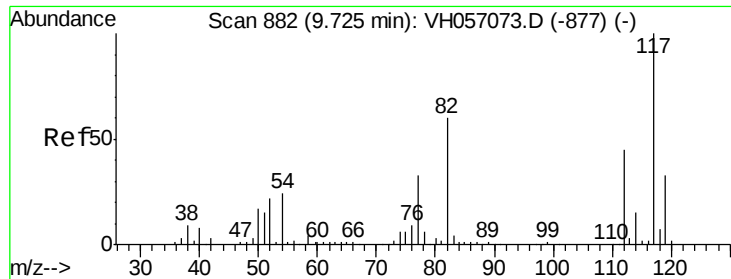
MMDadoda
 9/18/2015 3:12:35 PM



#62
 4-Bromofluorobenzene
 Concen: 44.36 ug/l
 RT: 11.35 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.3	58.4	87.6
176	63.4	54.3	81.5





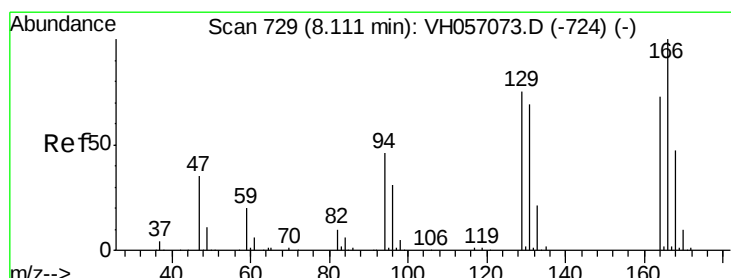
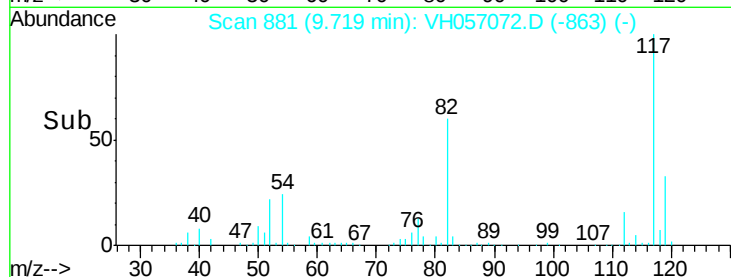
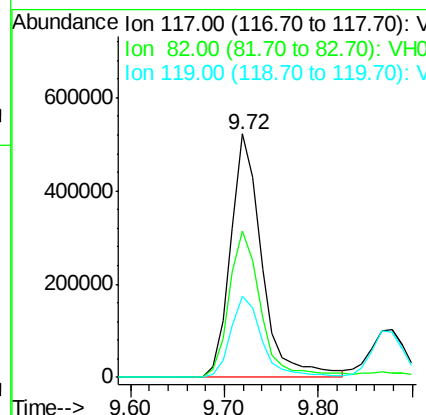
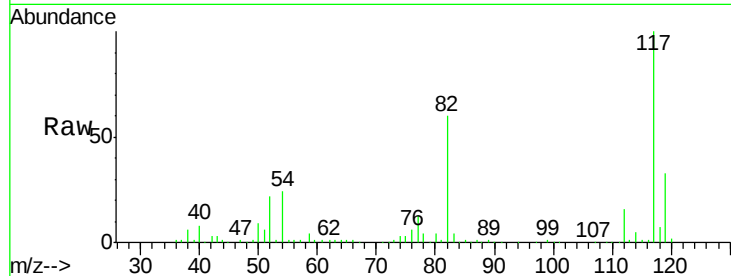
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.72 min Scan# 881
Delta R.T. -0.01 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion:117 Resp: 1215016
Ion Ratio Lower Upper
117 100
82 59.9 51.0 76.6
119 33.2 26.7 40.1

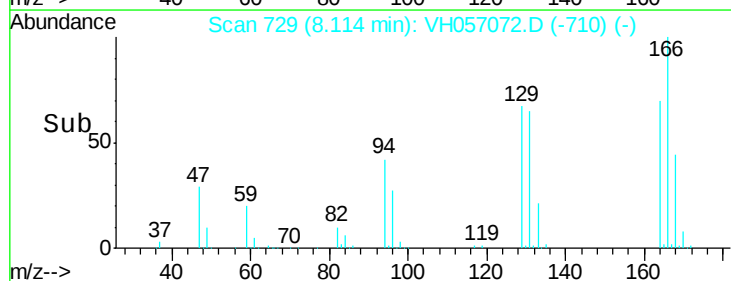
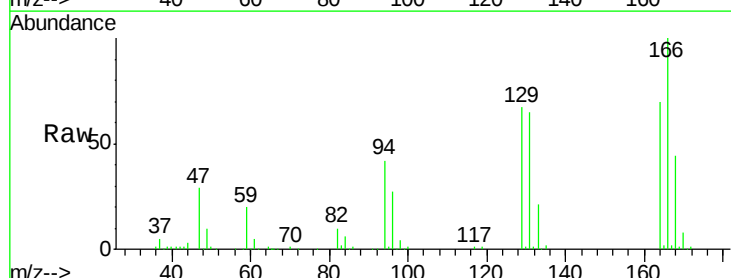
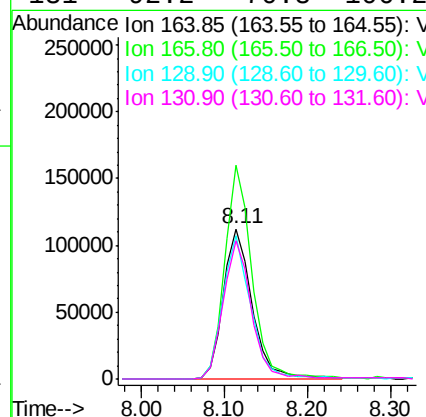
Manual Integrations
APPROVED

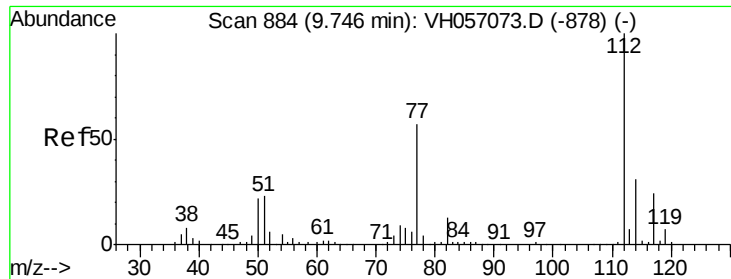
MMDadoda
9/18/2015 3:12:35 PM



#64
Tetrachloroethene
Concen: 39.05 ug/l
RT: 8.11 min Scan# 729
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion:164 Resp: 267277
Ion Ratio Lower Upper
164 100
166 142.6 103.2 154.8
129 95.5 73.4 110.0
131 92.2 70.8 106.2





#65

Chlorobenzene

Concen: 40.75 ug/l

RT: 9.74 min Scan# 883

Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion:112 Resp: 1033791

Ion Ratio Lower Upper

112 100

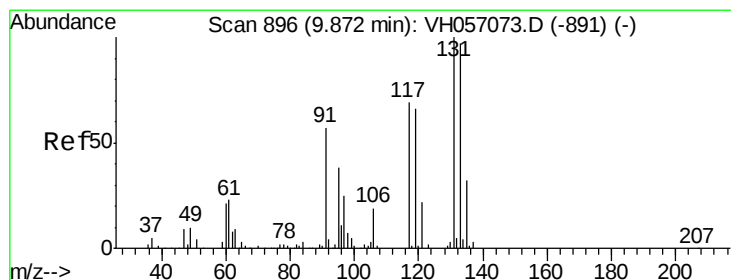
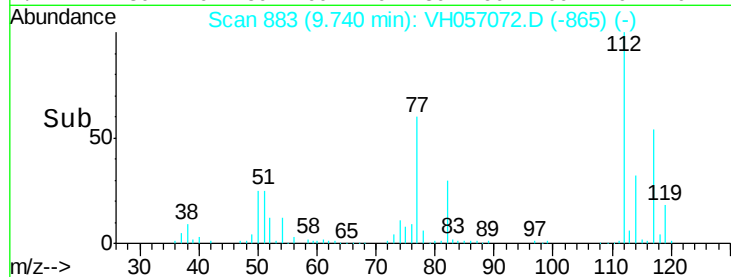
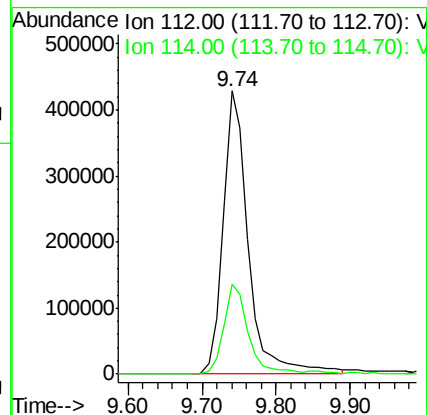
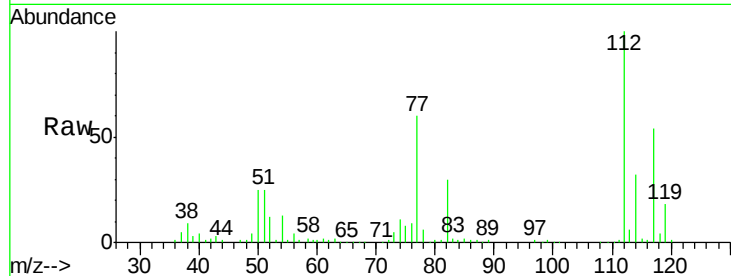
114 31.9 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

9/18/2015 3:12:35 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 40.18 ug/l

RT: 9.87 min Scan# 895

Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

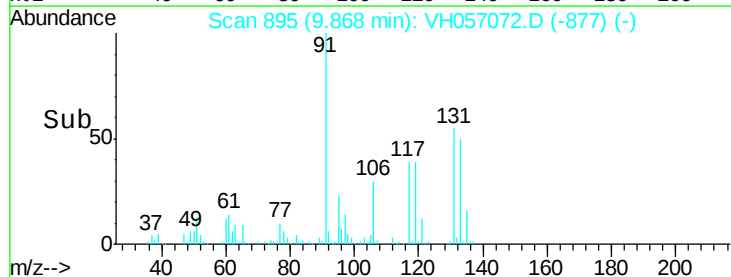
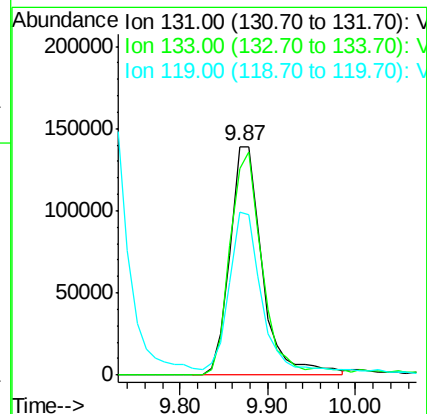
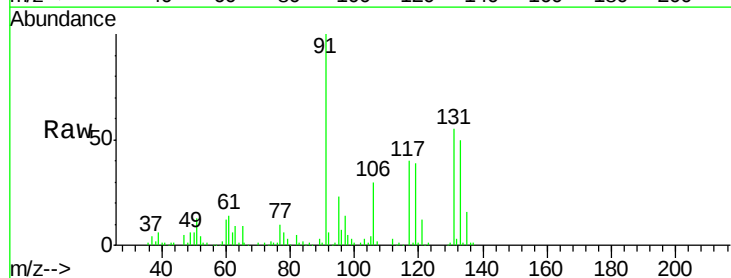
Tgt Ion:131 Resp: 357862

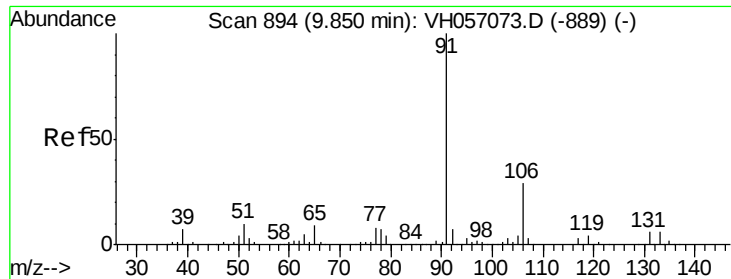
Ion Ratio Lower Upper

131 100

133 90.2 51.1 153.3

119 71.1 36.3 108.9





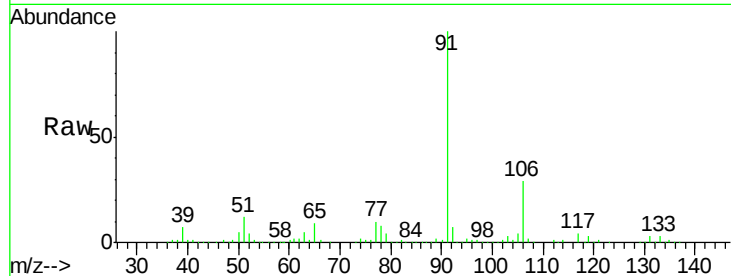
#67
Ethyl Benzene
Concen: 38.32 ug/l
RT: 9.85 min Scan# 893
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

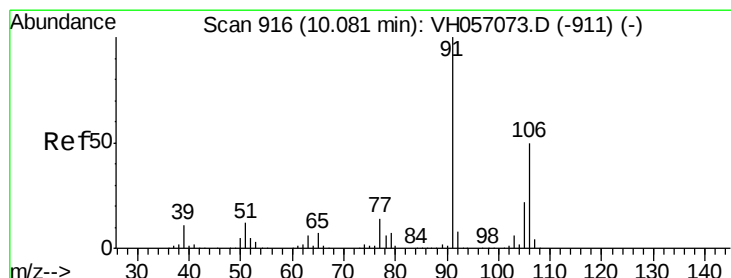
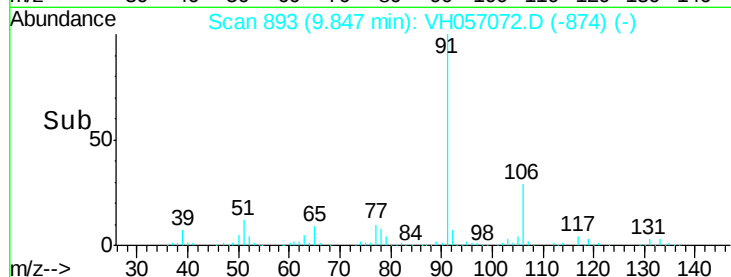
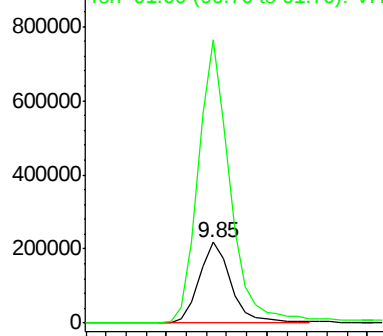
Tot Ion:106 Resp: 487317
Ion Ratio Lower Upper
106 100
91 350.5 264.9 397.3

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM

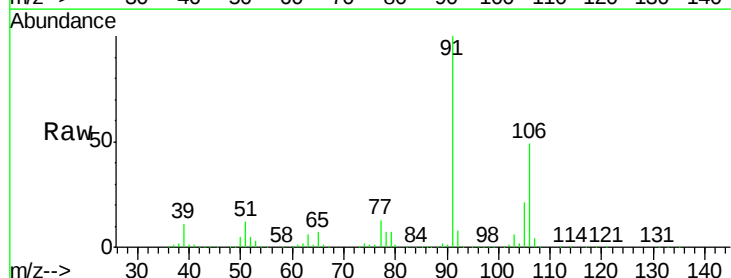


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VH0

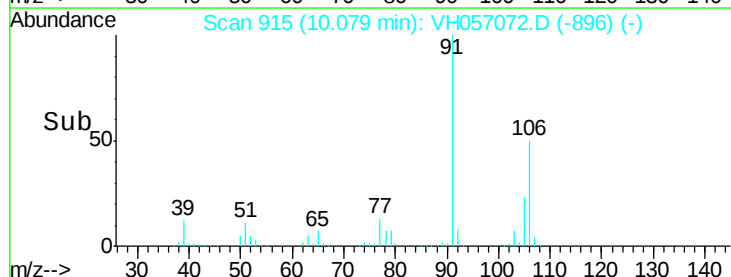
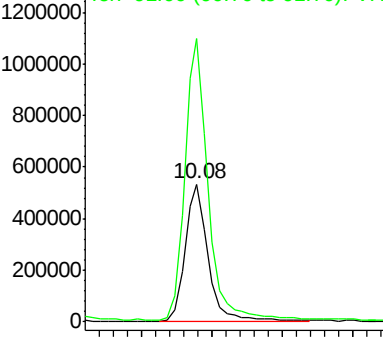


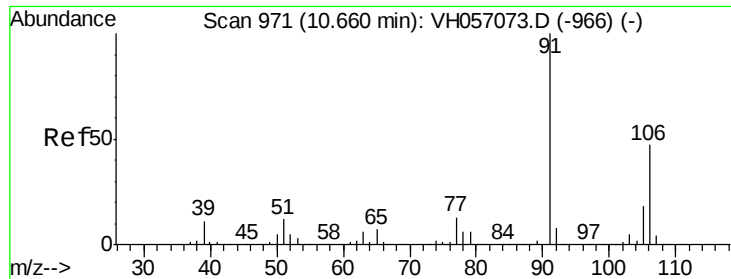
#68
m/p-Xylenes
Concen: 80.49 ug/l
RT: 10.08 min Scan# 915
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion:106 Resp: 1229612
Ion Ratio Lower Upper
106 100
91 205.5 164.4 246.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VH0





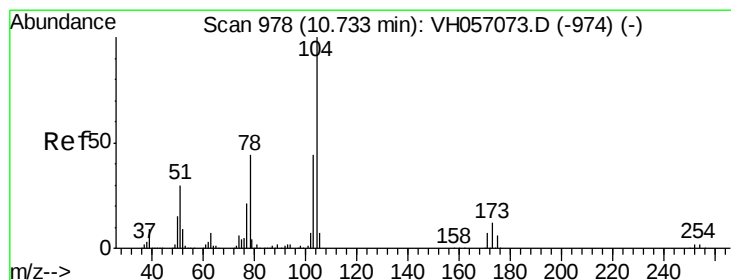
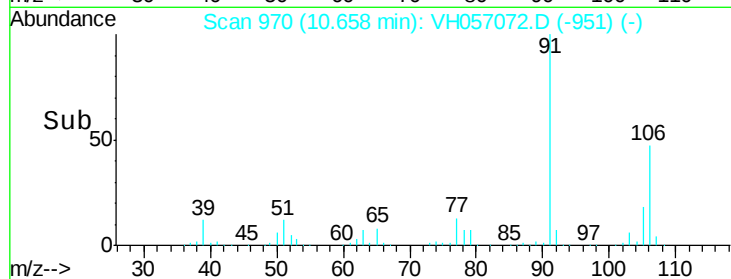
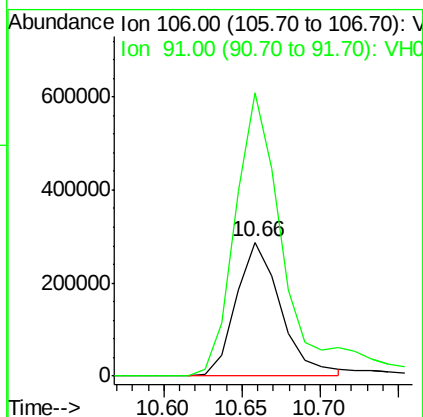
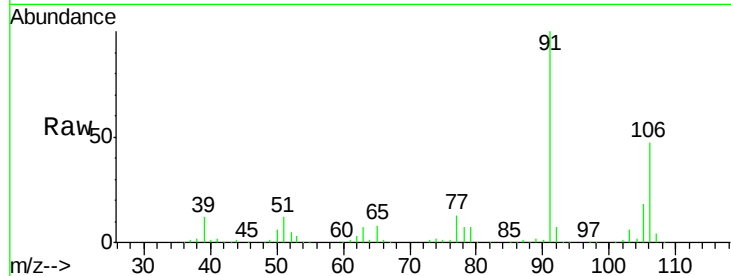
#69
o-Xylene
Concen: 38.64 ug/l
RT: 10.66 min Scan# 970
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion:106 Resp: 569687
Ion Ratio Lower Upper
106 100
91 211.8 104.2 312.6

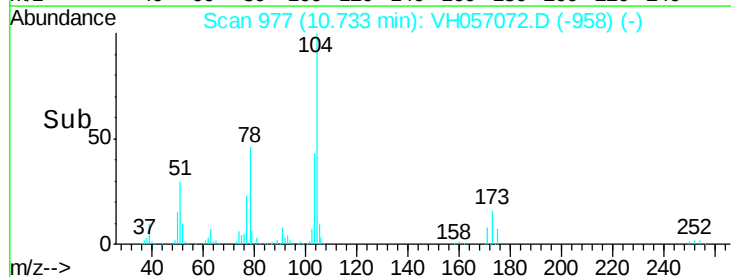
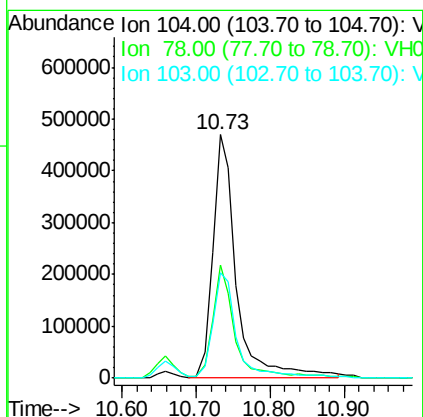
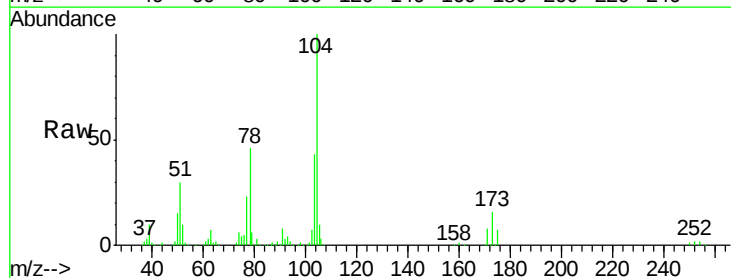
Manual Integrations
APPROVED

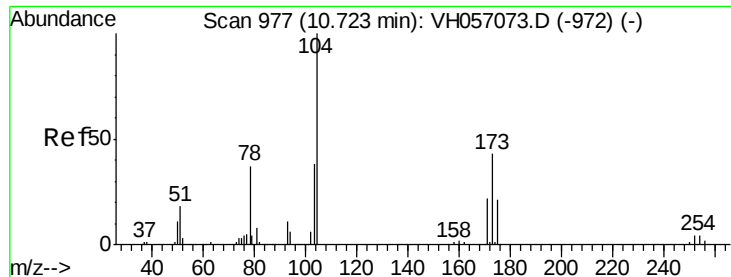
MMDadoda
9/18/2015 3:12:35 PM



#70
Styrene
Concen: 41.78 ug/l
RT: 10.73 min Scan# 977
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion:104 Resp: 1037925
Ion Ratio Lower Upper
104 100
78 46.3 35.2 52.8
103 43.2 35.8 53.6





#71

Bromoform

Concen: 42.82 ug/l

RT: 10.72 min Scan# 976

Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

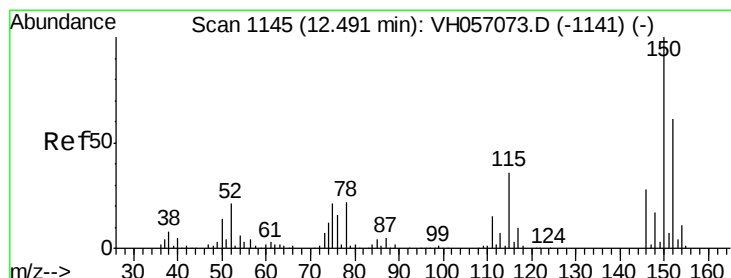
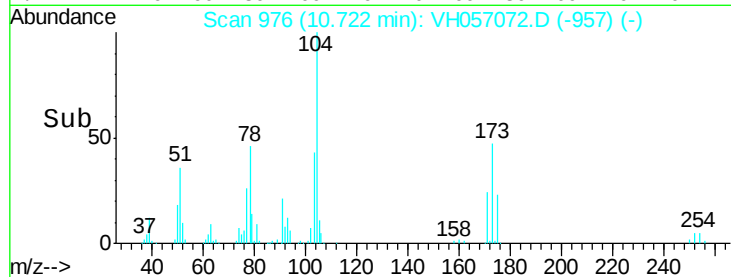
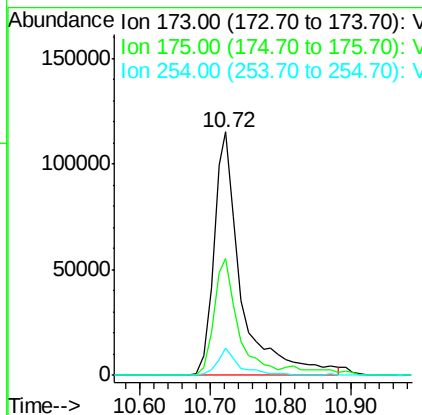
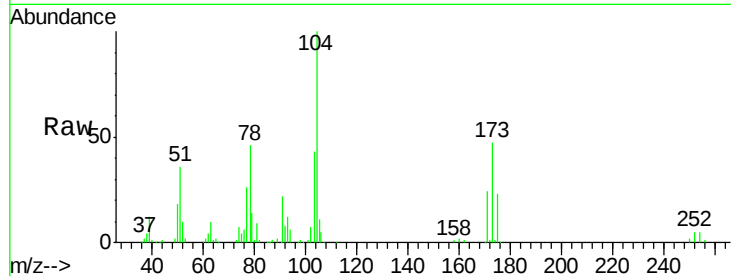
ClientSampleId :

VSTDIC040

Tot Ion:	173	Resp:	312249
Ion Ratio	Lower	Upper	
173	100		
175	48.2	23.3	69.9
254	11.1	4.4	13.2

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

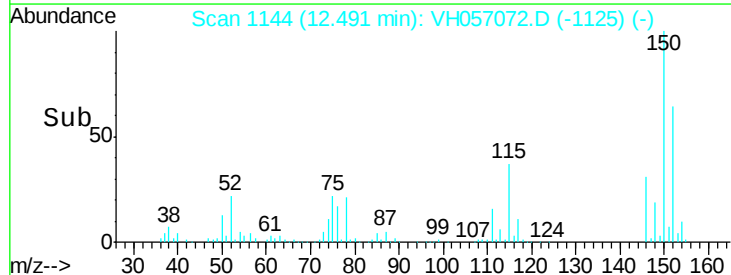
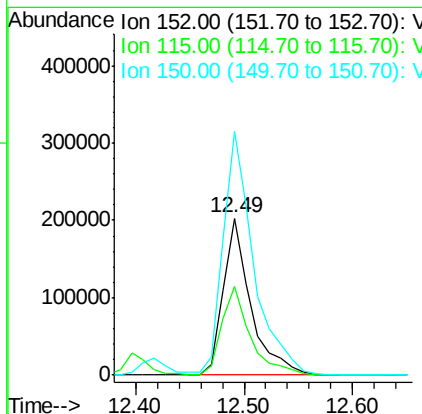
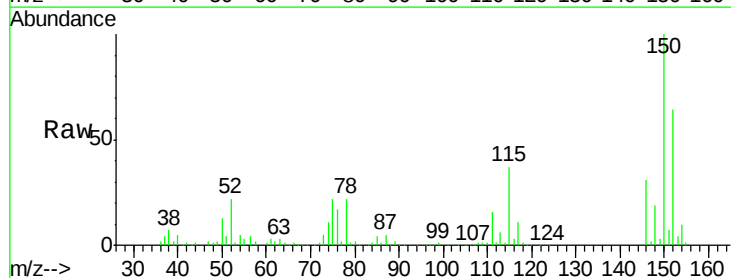
RT: 12.49 min Scan# 1144

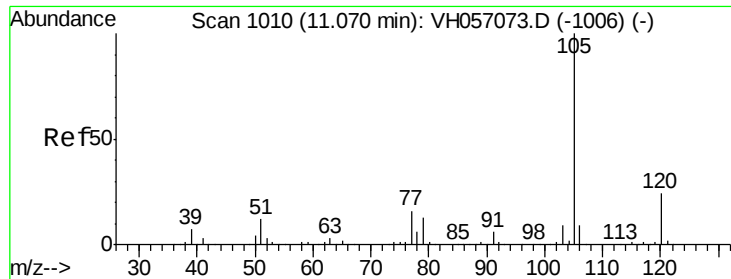
Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tgt Ion:	152	Resp:	357259
Ion Ratio	Lower	Upper	
152	100		
115	56.9	28.2	84.6
150	155.1	0.0	332.0





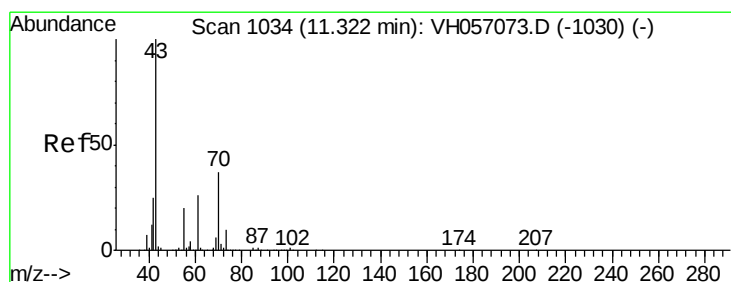
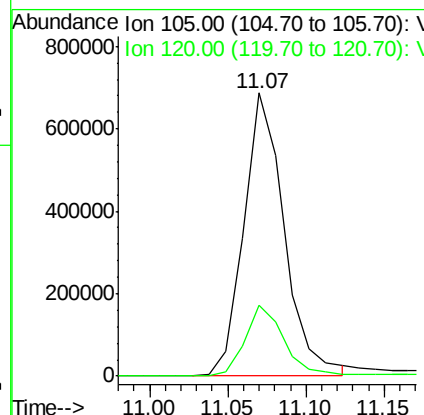
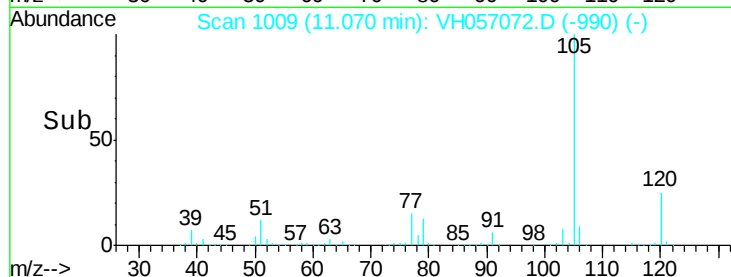
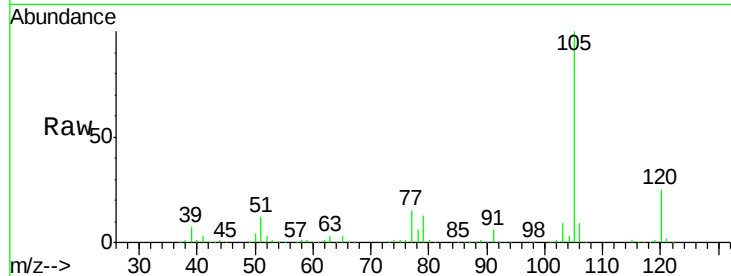
#73
Isopropylbenzene
Concen: 36.76 ug/l
RT: 11.07 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion:105 Resp: 1234130
Ion Ratio Lower Upper
105 100
120 25.0 12.2 36.4

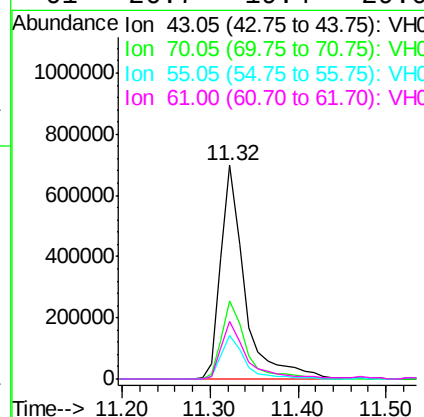
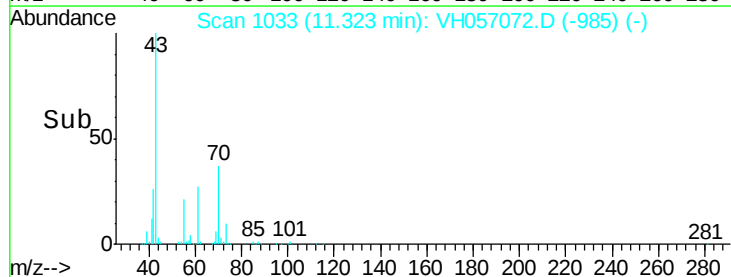
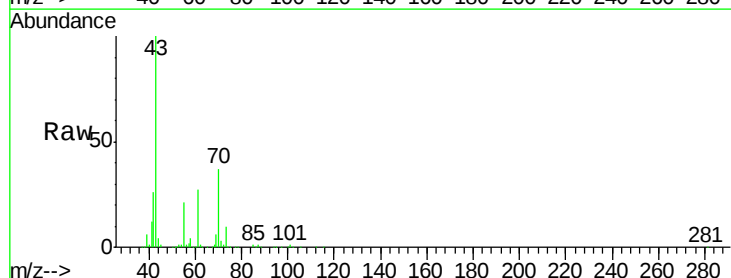
Manual Integrations
APPROVED

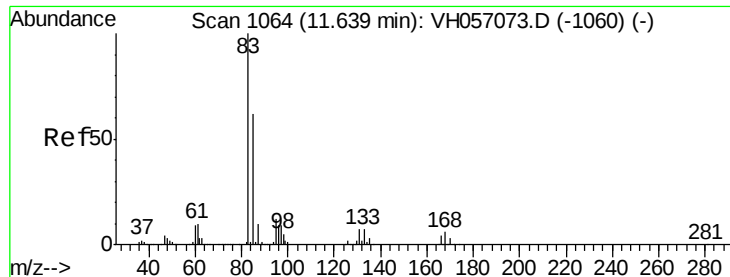
MMDadoda
9/18/2015 3:12:35 PM



#74
n-Amyl Acetate
Concen: 36.07 ug/l
RT: 11.32 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion: 43 Resp: 1317048
Ion Ratio Lower Upper
43 100
70 36.5 27.3 40.9
55 20.6 15.3 22.9
61 26.7 19.4 29.0





#75

1,1,2,2-Tetrachloroethane

Concen: 38.89 ug/l

RT: 11.64 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion: 83 Resp: 674986

Ion Ratio Lower Upper

83 100

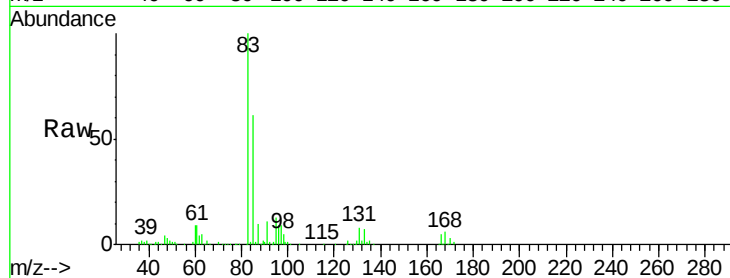
131 7.5 3.1 9.3

85 61.1 32.3 96.8

Manual Integrations
APPROVED

MMDadoda

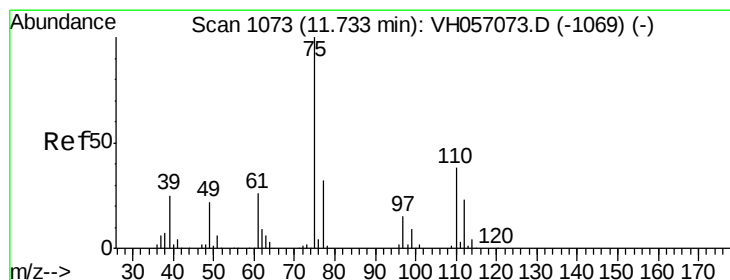
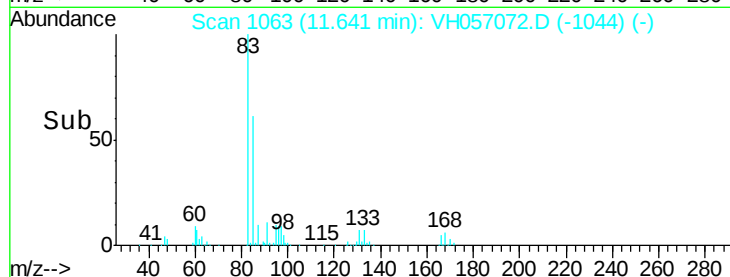
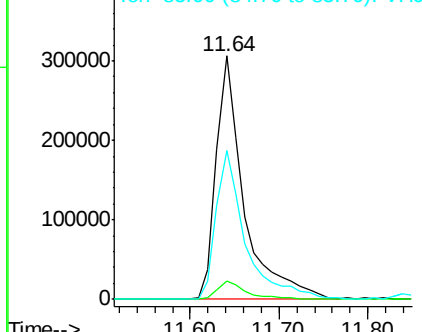
9/18/2015 3:12:35 PM



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: 37.95 ug/l

RT: 11.73 min Scan# 1072

Delta R.T. 0.00 min

Lab File: VH057072.D

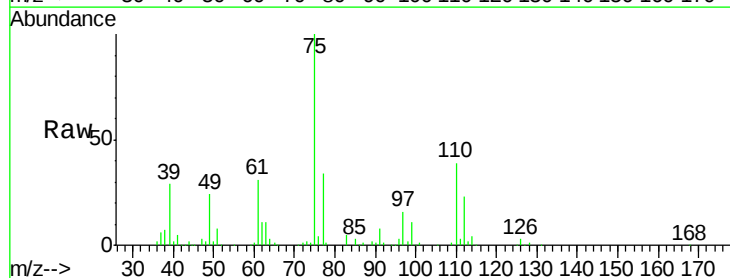
Acq: 17 Sep 2015 18:08

Tgt Ion: 75 Resp: 512705

Ion Ratio Lower Upper

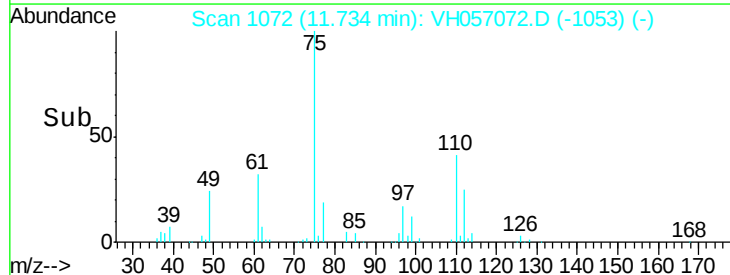
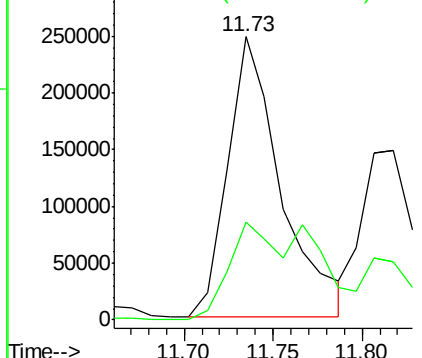
75 100

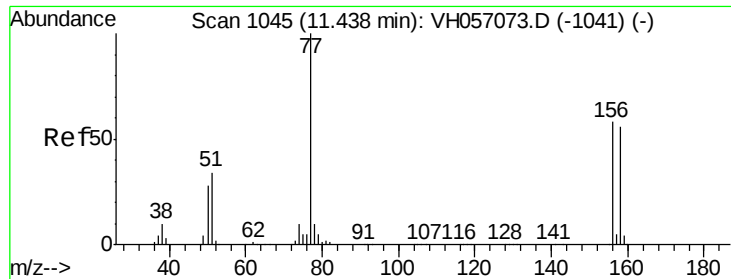
77 34.5 14.9 44.9



Abundance Ion 75.00 (74.70 to 75.70): VH0

Ion 77.00 (76.70 to 77.70): VH0





#77

Bromobenzene

Concen: 40.84 ug/l

RT: 11.44 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

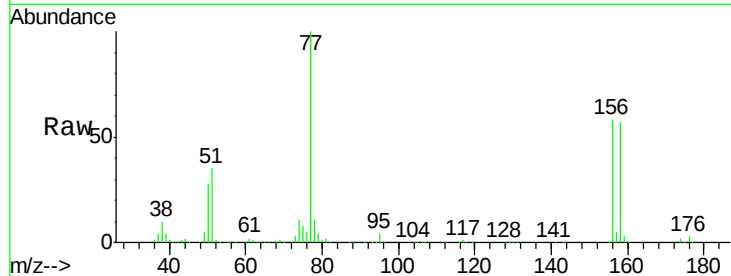
ClientSampleId :

VSTDIC040

Tot Ion	Ratio	Lower	Upper
156	100		
77	172.4	73.5	220.5
158	97.6	46.8	140.3

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM

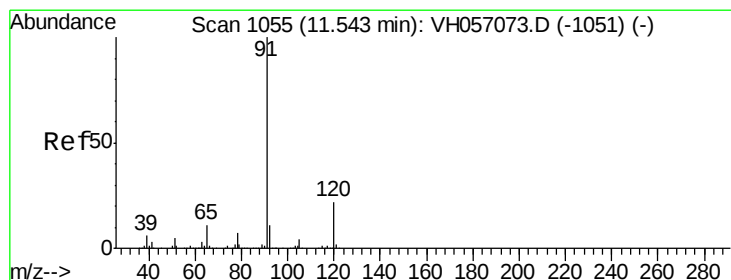
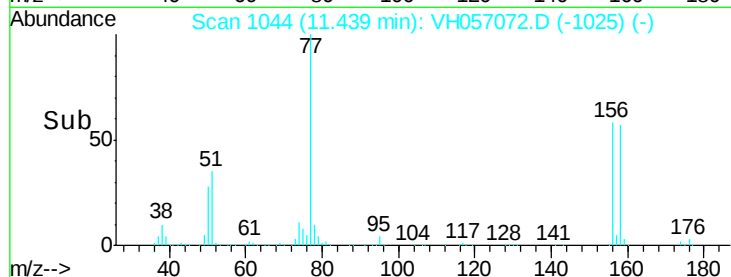
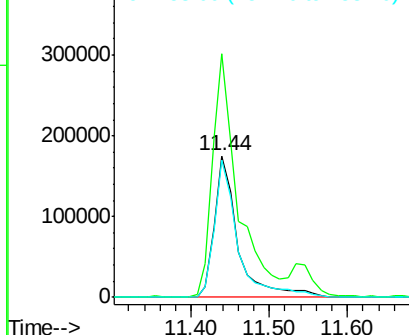


Abundance

Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VH0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 37.67 ug/l

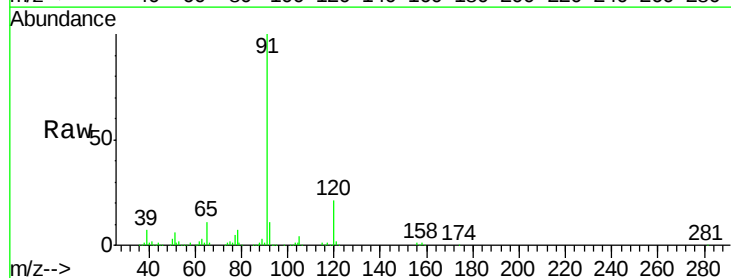
RT: 11.55 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

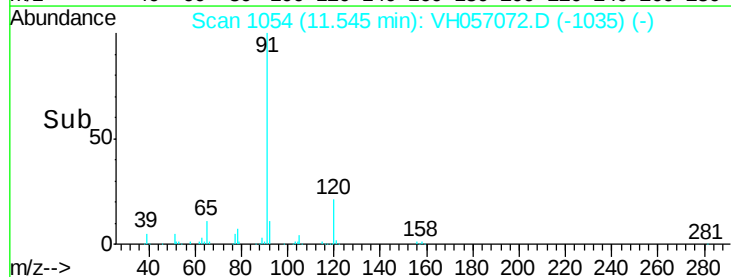
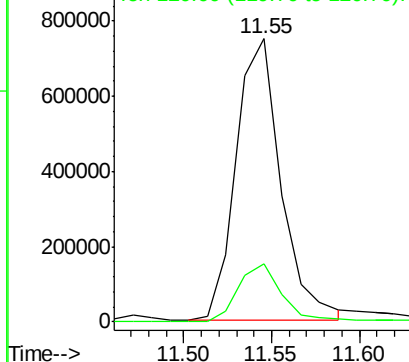
Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.6	10.2	30.6

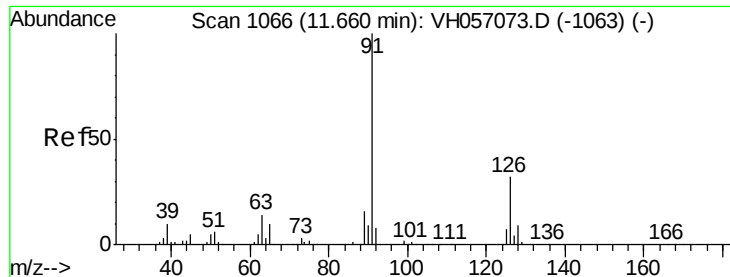


Abundance

Ion 91.00 (90.70 to 91.70): VH0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 38.03 ug/l

RT: 11.66 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampled :

VSTDIC040

Tot Ion: 91 Resp: 813519

Ion Ratio Lower Upper

91 100

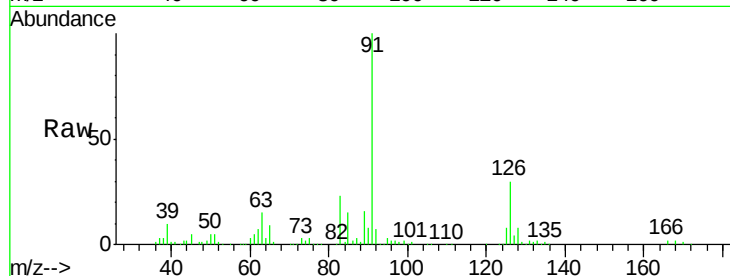
126 30.3 16.3 48.9

Manual Integrations

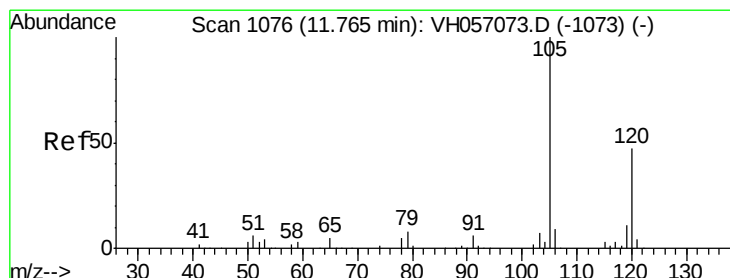
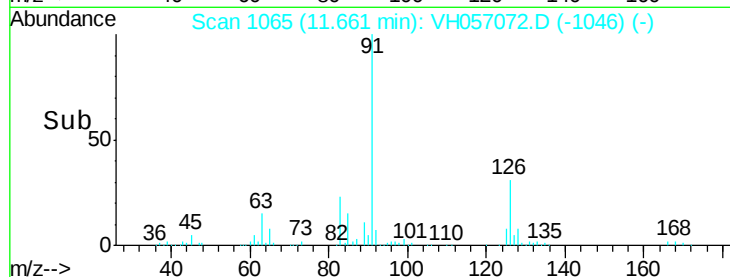
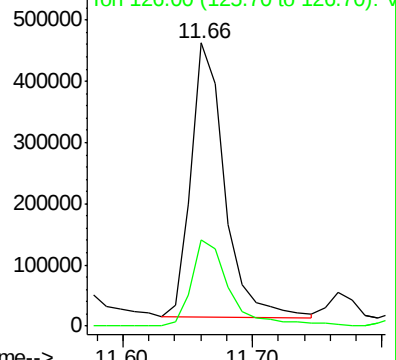
APPROVED

MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 91.00 (90.70 to 91.70): VH057072.D (-1063) (-)



#80

1,3,5-Trimethylbenzene

Concen: 39.78 ug/l

RT: 11.77 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VH057072.D

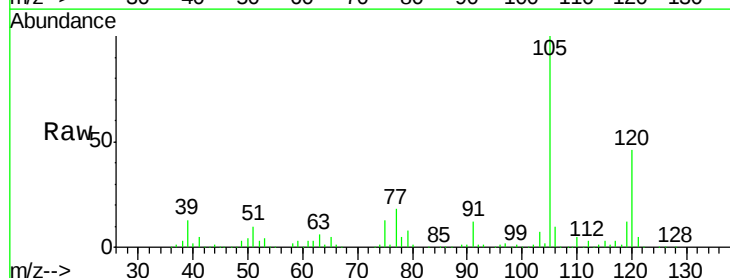
Acq: 17 Sep 2015 18:08

Tgt Ion: 105 Resp: 826255

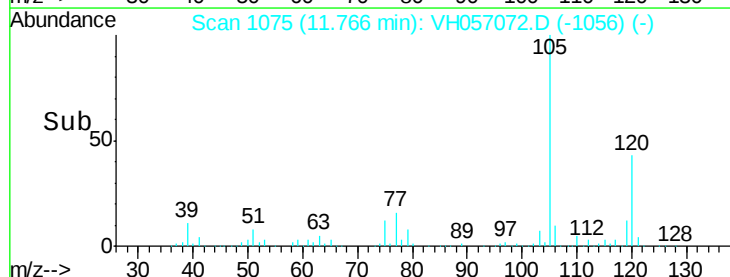
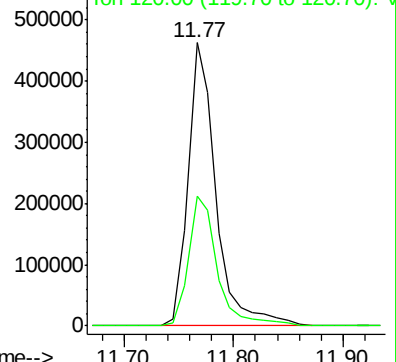
Ion Ratio Lower Upper

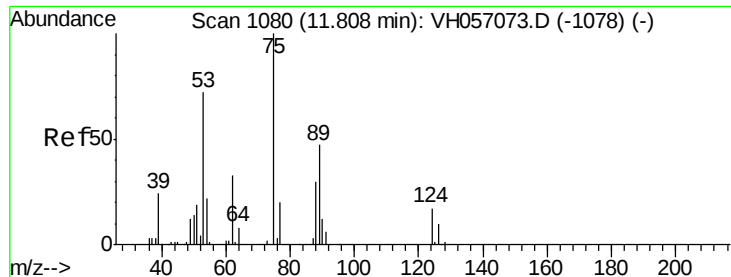
105 100

120 46.0 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): VH057072.D (-1073) (-)





#81

trans-1,4-Dichloro-2-Butene

Concen: 36.92 ug/l

RT: 11.82 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

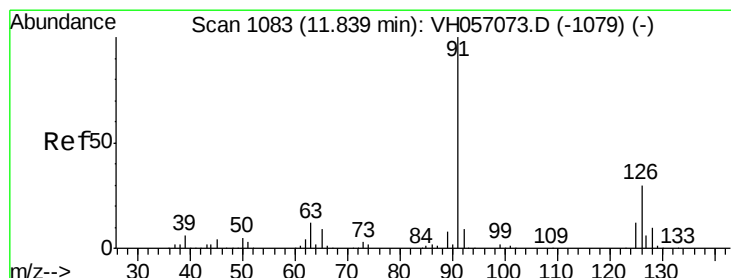
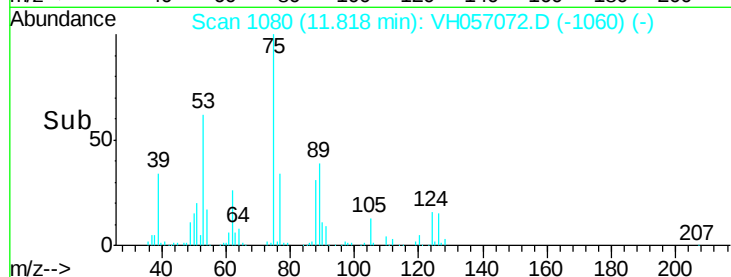
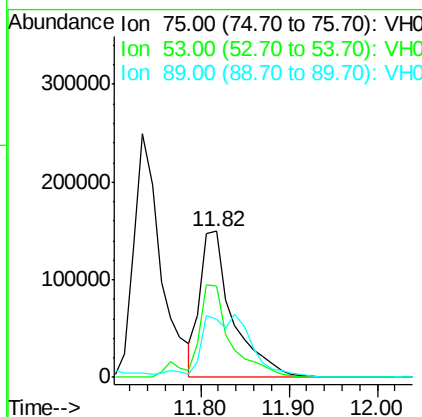
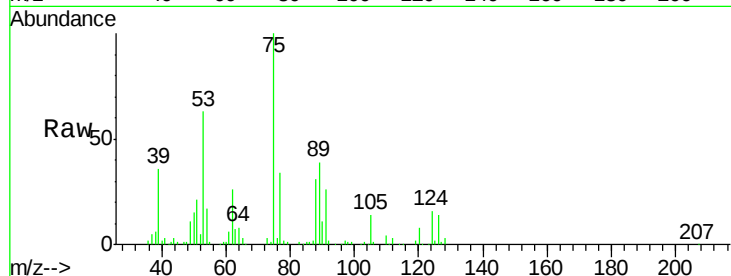
ClientSampleId :

VSTDIC040

Tot Ion:	75	Resp:	380918
Ion	Ratio	Lower	Upper
75	100		
53	62.6	32.0	96.2
89	39.2	21.1	63.3

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM



#82

4-Chlorotoluene

Concen: 38.52 ug/l

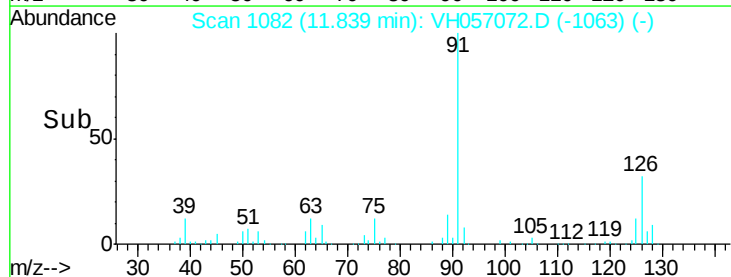
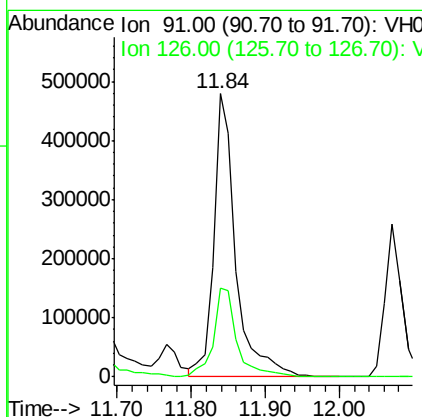
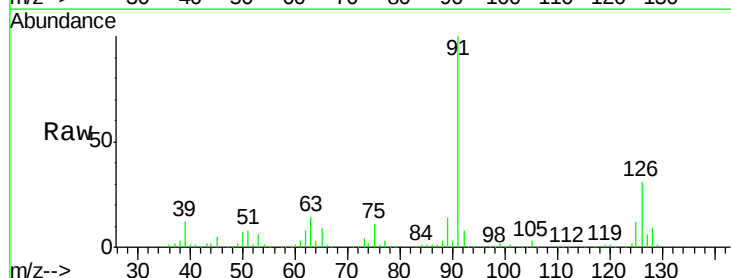
RT: 11.84 min Scan# 1082

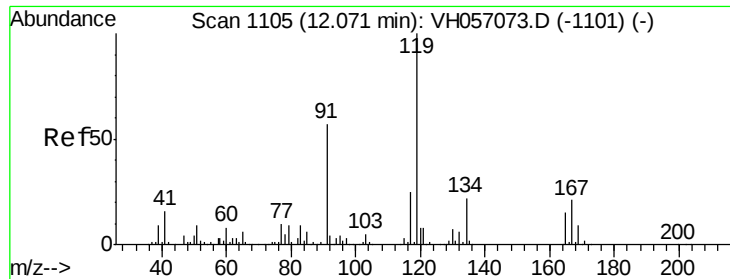
Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tgt Ion:	91	Resp:	984708
Ion	Ratio	Lower	Upper
91	100		
126	31.3	17.0	51.0





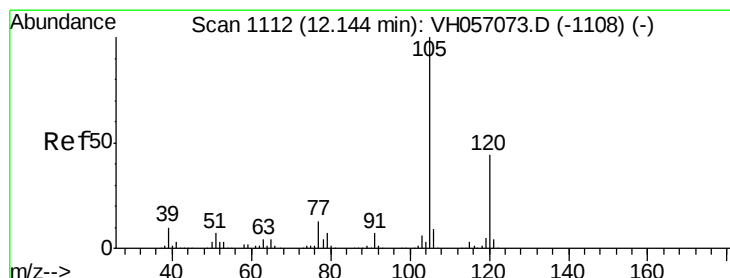
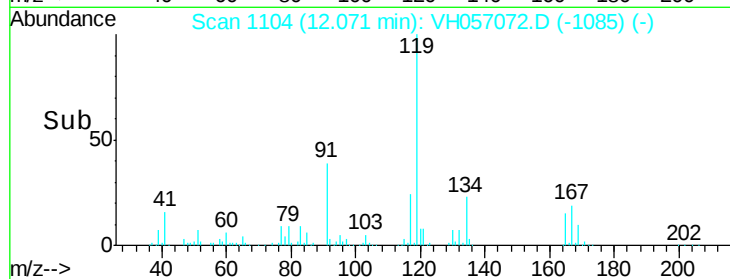
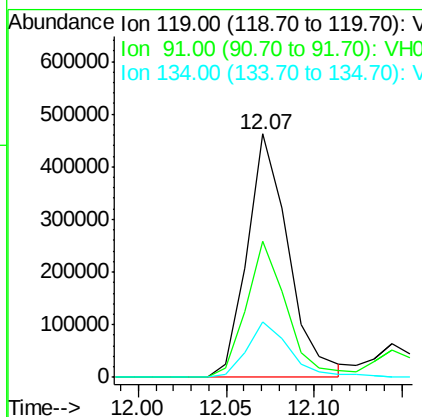
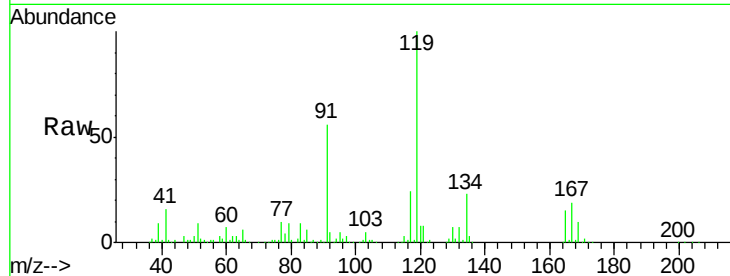
#83
 tert-Butylbenzene
 Concen: 38.60 ug/l
 RT: 12.07 min Scan# 1104
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Tot Ion	Ratio	Lower	Upper
119	100		
91	55.7	28.5	85.6
134	22.8	11.5	34.5

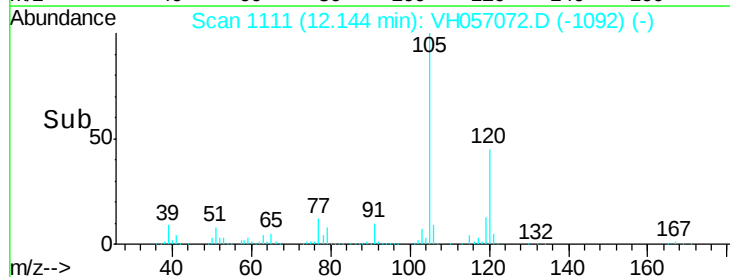
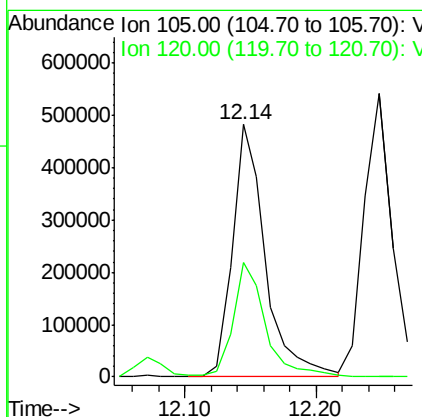
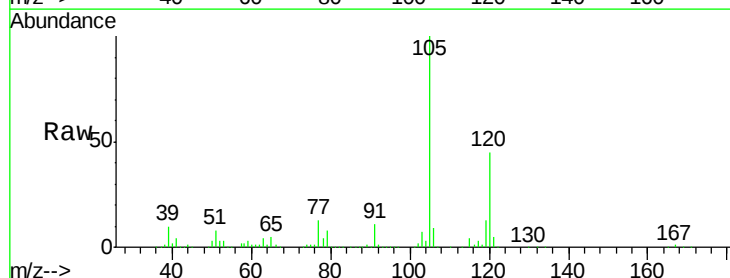
Manual Integrations
 APPROVED

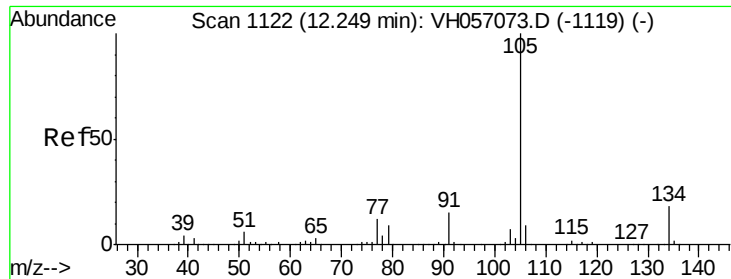
MMDadoda
 9/18/2015 3:12:35 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 40.50 ug/l
 RT: 12.14 min Scan# 1111
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.6	67.7





#85

sec-Butylbenzene

Concen: 38.63 ug/l

RT: 12.25 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

ClientSampleId :

VSTDIC040

Tot Ion:105 Resp: 802928

Ion Ratio Lower Upper

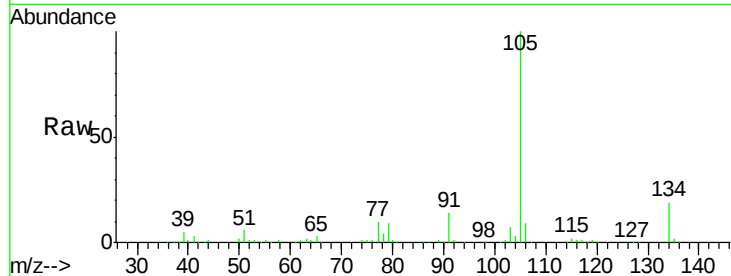
105 100

134 18.6 9.1 27.3

Manual Integrations
APPROVED

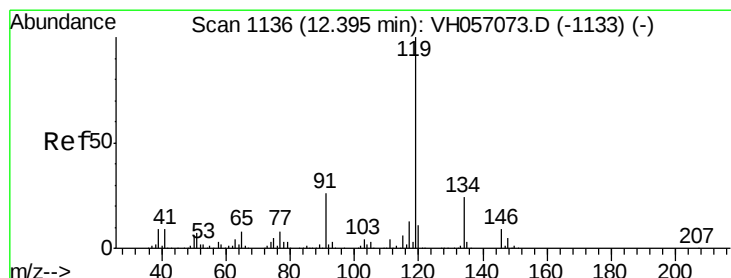
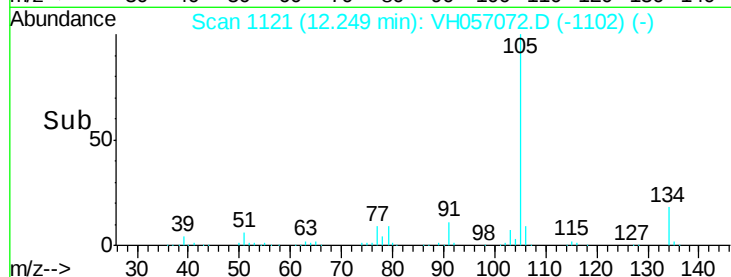
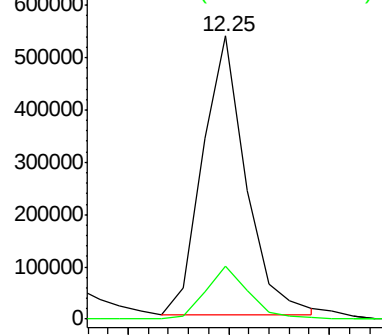
MMDadoda

9/18/2015 3:12:35 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 38.43 ug/l

RT: 12.40 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

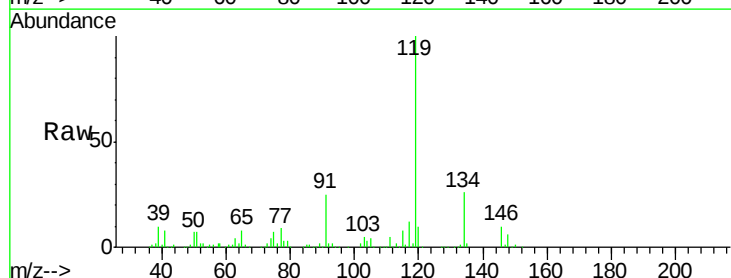
Tgt Ion:119 Resp: 612588

Ion Ratio Lower Upper

119 100

134 25.7 13.0 38.9

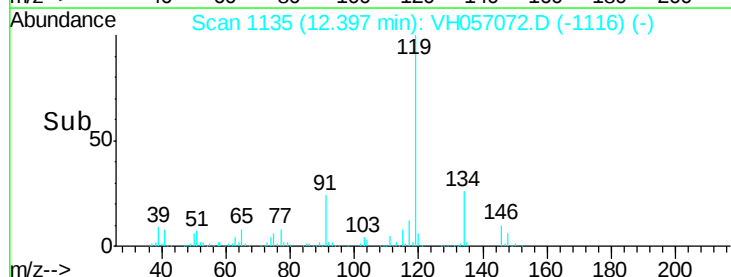
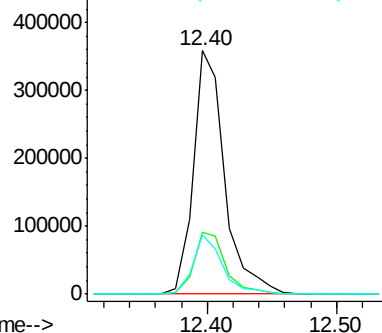
91 24.6 12.5 37.5

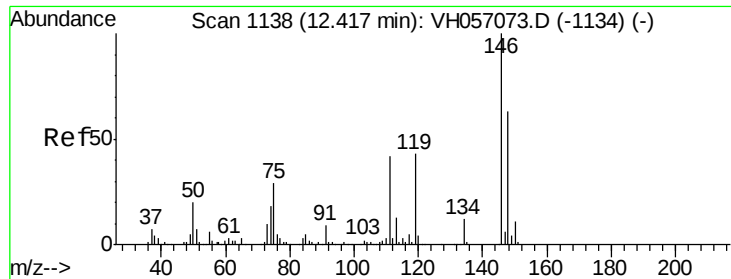


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





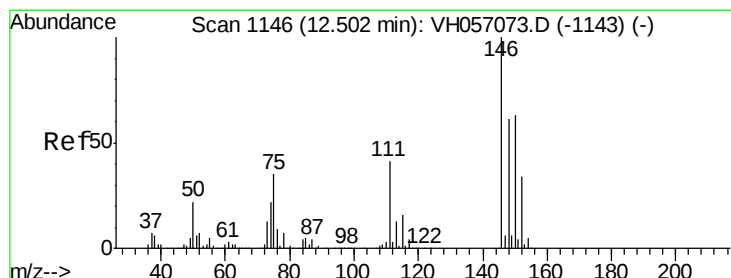
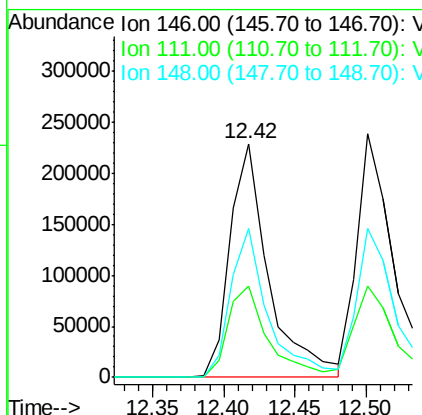
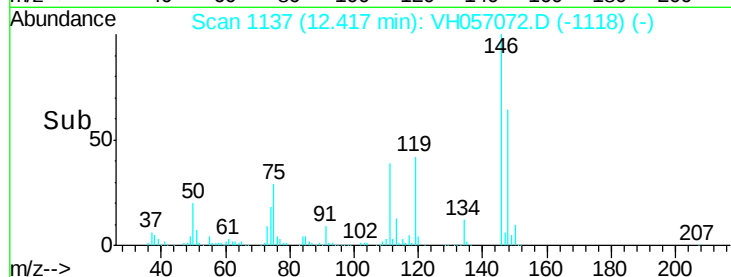
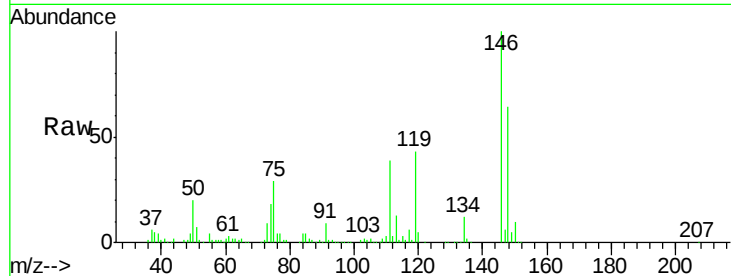
#87
 1,3-Dichlorobenzene
 Concen: 40.25 ug/l
 RT: 12.42 min Scan# 1137
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	21.0	63.0
148	63.8	31.6	94.7

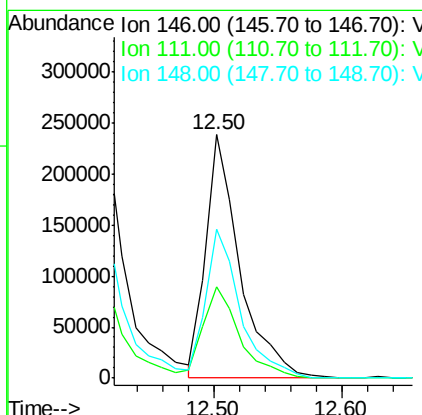
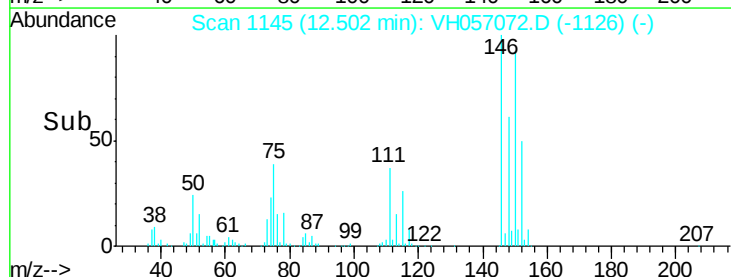
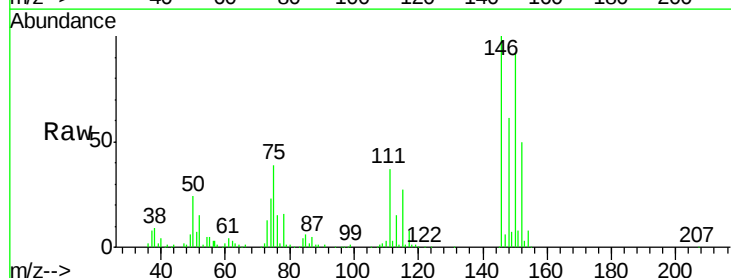
Manual Integrations
 APPROVED

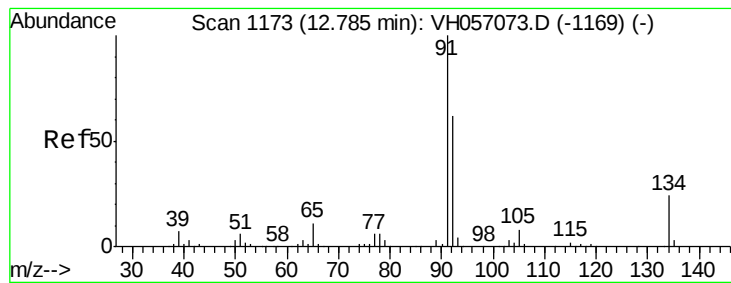
MMDadoda
 9/18/2015 3:12:35 PM



#88
 1,4-Dichlorobenzene
 Concen: 39.00 ug/l
 RT: 12.50 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.8	59.3
148	61.1	30.3	90.9





#89

n-Butylbenzene

Concen: 41.68 ug/l

RT: 12.78 min Scan# 1171

Delta R.T. -0.01 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Instrument :

MSVOA_H

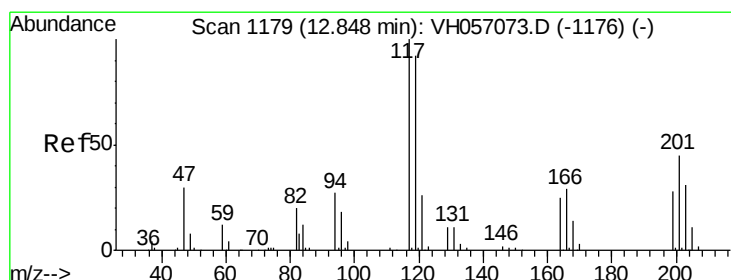
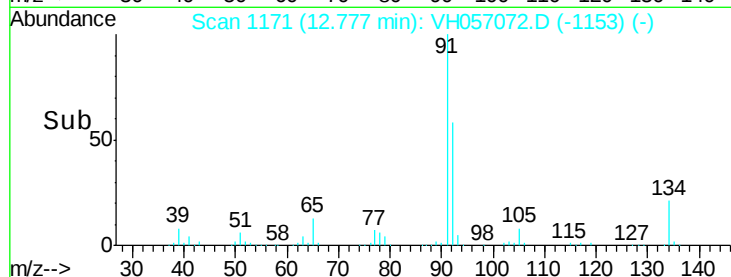
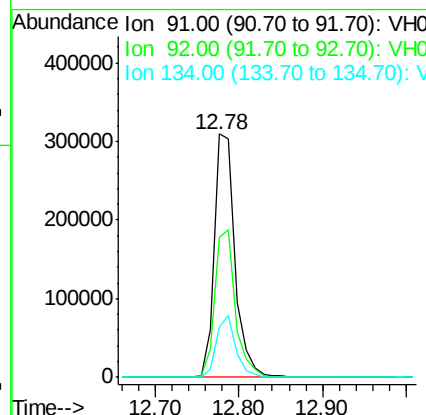
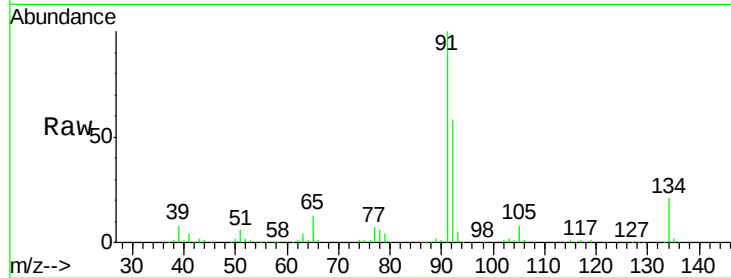
ClientSampleId :

VSTDIC040

Tot Ion:	91	Resp:	520591
Ion Ratio	Lower	Upper	
91	100		
92	57.5	31.3	93.9
134	20.8	10.5	31.6

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM



#90

Hexachloroethane

Concen: 35.67 ug/l

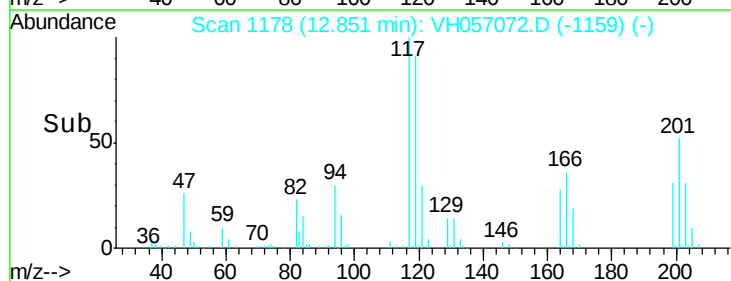
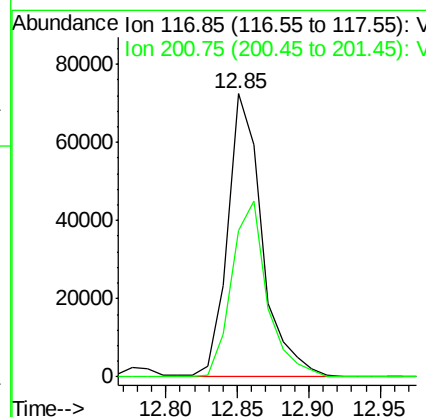
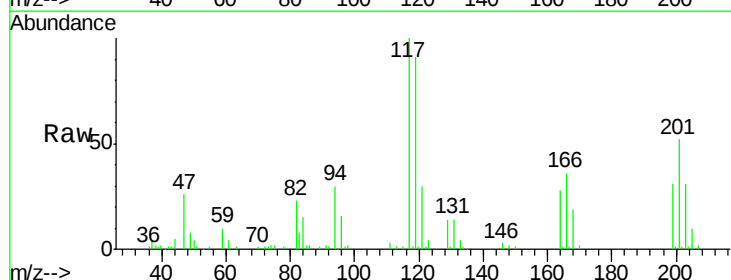
RT: 12.85 min Scan# 1178

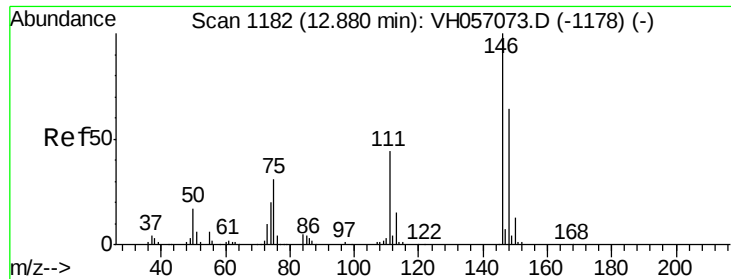
Delta R.T. 0.00 min

Lab File: VH057072.D

Acq: 17 Sep 2015 18:08

Tgt Ion:	117	Resp:	121032
Ion Ratio	Lower	Upper	
117	100		
201	51.8	14.0	80.8





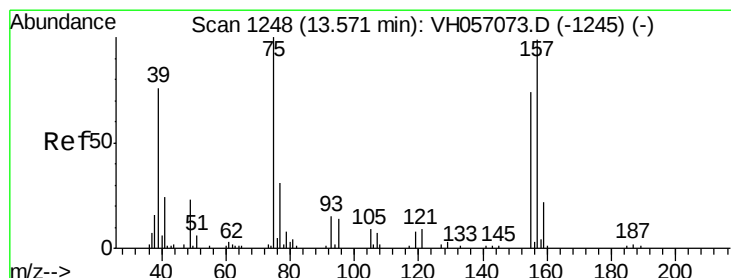
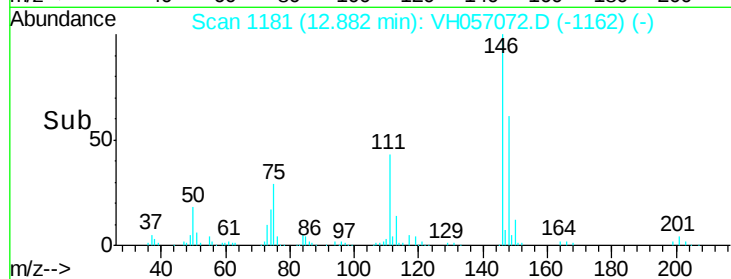
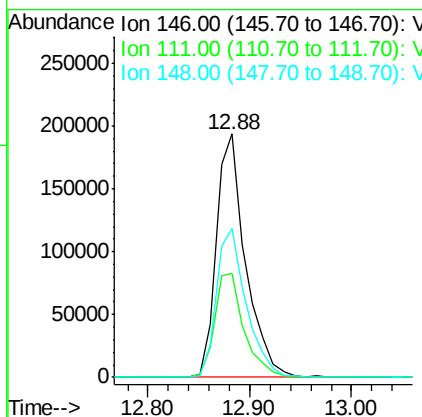
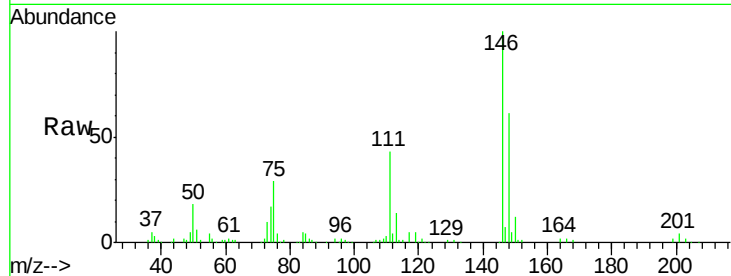
#91
 1,2-Dichlorobenzene
 Concen: 41.95 ug/l
 RT: 12.88 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Tot Ion	Ratio	Resp	Lower	Upper
146	100	389892		
111	42.8	22.1	66.1	
148	60.9	31.4	94.3	

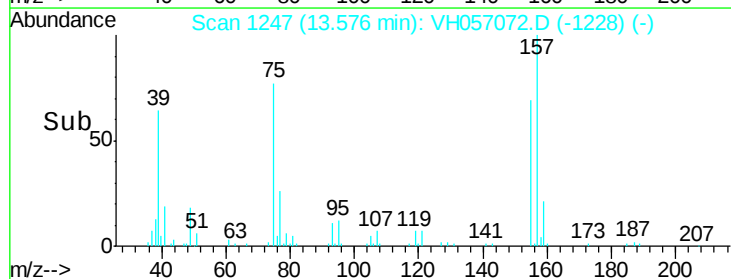
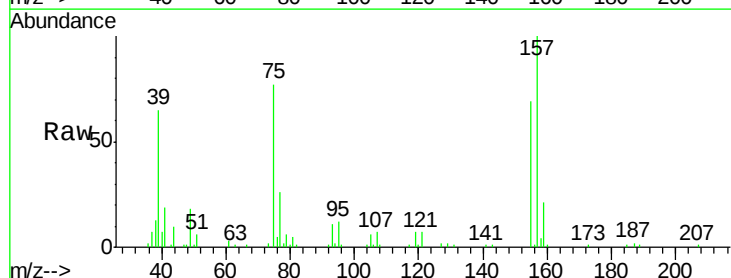
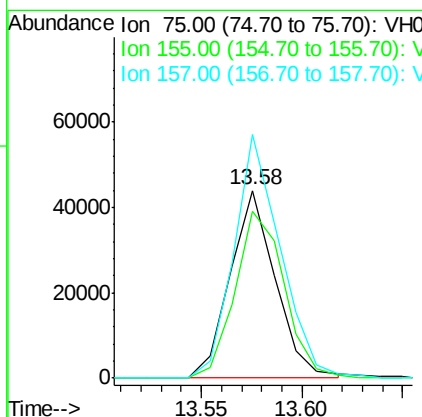
Manual Integrations
 APPROVED

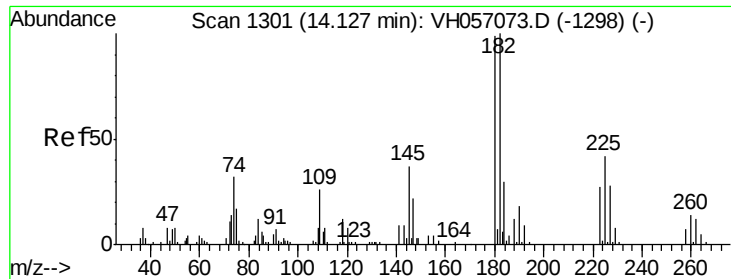
MMDadoda
 9/18/2015 3:12:35 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 39.18 ug/l
 RT: 13.58 min Scan# 1247
 Delta R.T. 0.00 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	68907		
155	89.0	43.4	130.2	
157	129.8	62.8	188.4	





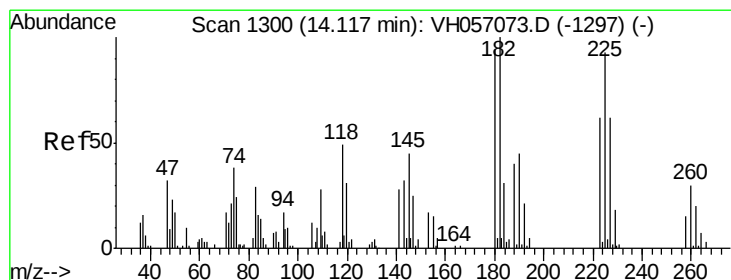
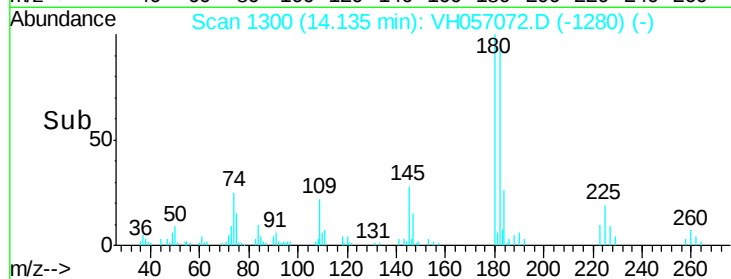
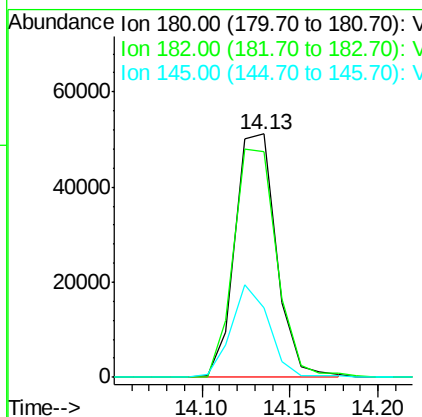
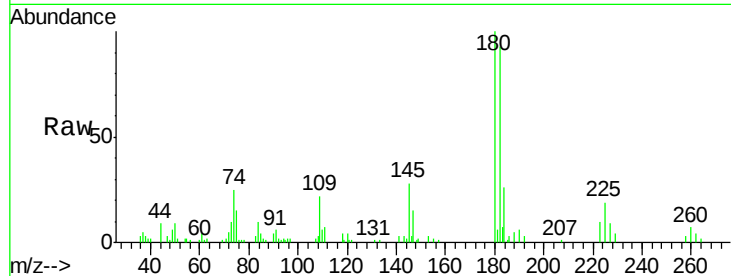
#93
 1,2,4-Trichlorobenzene
 Concen: 49.80 ug/l
 RT: 14.13 min Scan# 1300
 Delta R.T. 0.01 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDIC040

Tot Ion	Ratio	Resp	Lower	Upper
180	100	83252		
182	92.9	43.0	129.2	
145	28.5	17.3	52.0	

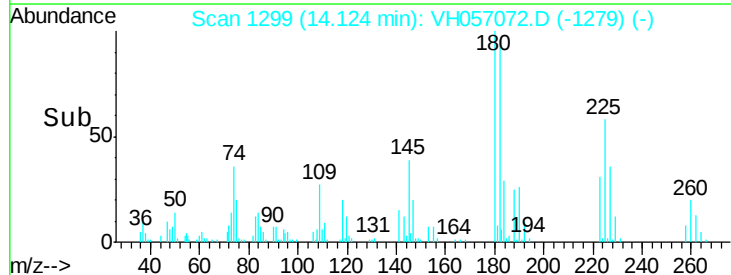
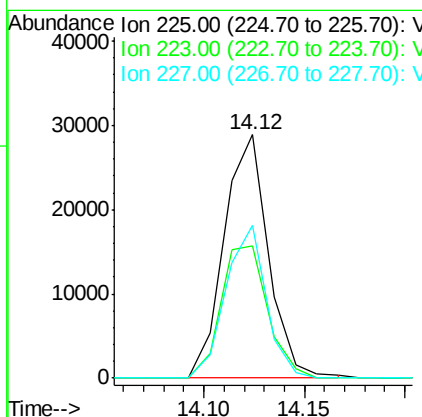
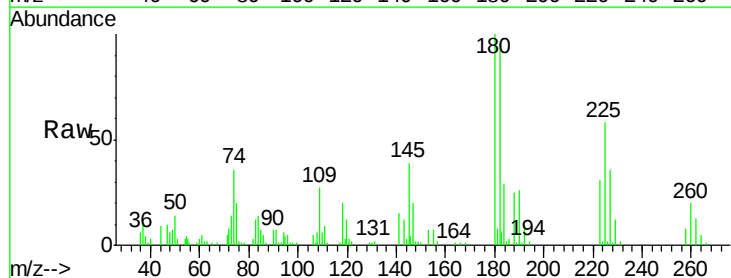
Manual Integrations
 APPROVED

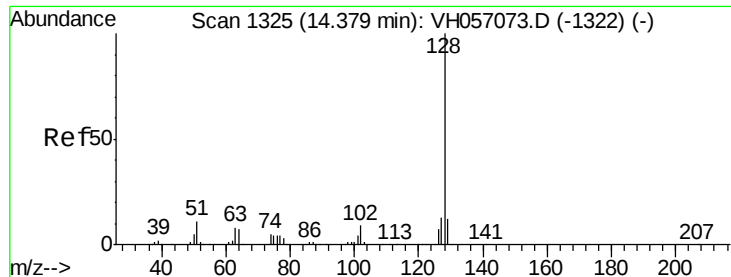
MMDadoda
 9/18/2015 3:12:35 PM



#94
 Hexachlorobutadiene
 Concen: 52.66 ug/l
 RT: 14.12 min Scan# 1299
 Delta R.T. 0.01 min
 Lab File: VH057072.D
 Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	44383		
223	54.1	30.3	90.8	
227	62.6	30.5	91.5	





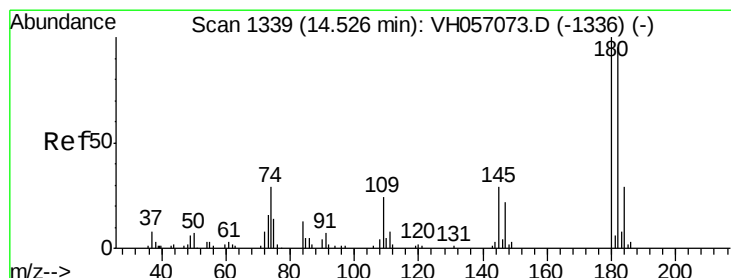
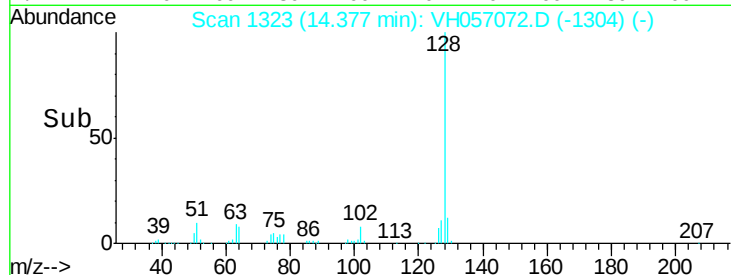
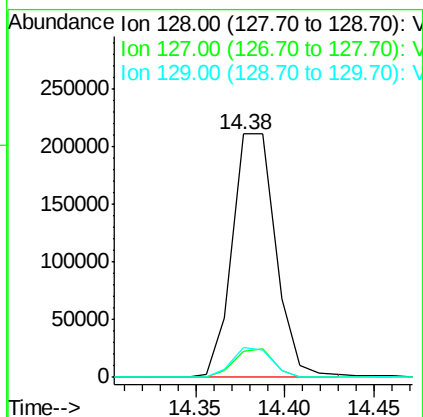
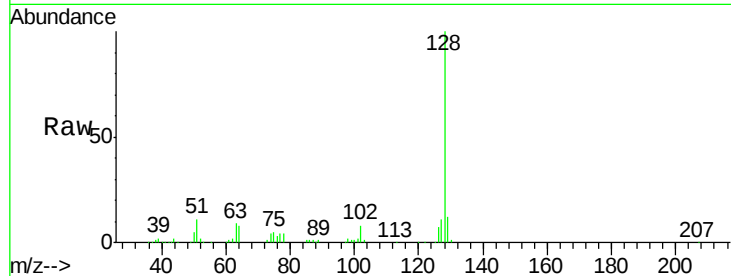
#95
Naphthalene
Concen: 48.64 ug/l
RT: 14.38 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Instrument :
MSVOA_H
ClientSampleId :
VSTDIC040

Tot Ion	Ratio	Resp	Lower	Upper
128	100	349795		
127	10.9		9.6	14.4
129	12.2		8.7	13.1

Manual Integrations
APPROVED

MMDadoda
9/18/2015 3:12:35 PM



#96
1,2,3-Trichlorobenzene
Concen: 55.01 ug/l
RT: 14.52 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VH057072.D
Acq: 17 Sep 2015 18:08

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	58361		
182	88.5		47.1	141.3
145	28.7		12.5	37.5

