

Data Path : W:\HPCHEM1\MSVOA_H\DATA\VH092215\
 Data File : VH057119.D
 Acq On : 22 Sep 2015 22:27
 Operator : SY/FY
 Sample : VSTDCCC050
 Misc : 5.01g/10mL//100uL/5mL/MSVOA_H/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 9/23/2015 11:46:56 AM

Quant Time: Sep 23 06:51:38 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:34:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	890159	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.56	114	1563955	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.72	117	1220012	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.48	152	348535	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.80	65	717878	45.16	ug/l	-0.01
Spiked Amount	50.000	Range	66 - 150	Recovery	=	90.32%
35) Dibromofluoromethane	4.07	113	642554	51.60	ug/l	-0.01
Spiked Amount	50.000	Range	76 - 130	Recovery	=	103.20%
48) Toluene-d8	7.51	98	1854750	51.80	ug/l	-0.01
Spiked Amount	50.000	Range	78 - 121	Recovery	=	103.60%
62) 4-Bromofluorobenzene	11.35	95	615252	50.95	ug/l	0.00
Spiked Amount	50.000	Range	70 - 131	Recovery	=	101.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.93	85	514717	45.75	ug/l	97
3) Chloromethane	1.02	50	623762	44.04	ug/l	95
4) Vinyl Chloride	1.09	62	519040	44.33	ug/l	99
5) Bromomethane	1.27	94	255649	49.81	ug/l	97
6) Chloroethane	1.35	64	243545	51.21	ug/l	98
7) Trichlorofluoromethane	1.40	101	462166m	42.21	ug/l	
8) Tert butyl alcohol	2.54	59	648366	227.17	ug/l #	96
9) Diethyl Ether	1.60	74	306229	56.56	ug/l	82
10) Diisopropyl ether	2.77	45	1739762	43.84	ug/l	98
11) 1,1-Dichloroethene	1.76	96	456010	55.53	ug/l	83
12) Methyl Iodide	1.86	142	807239m	55.78	ug/l	
13) Acrolein	1.97	56	269893	158.13	ug/l	93
14) 1,1,2-Trichlorotrifluoroet	1.79	101	418014	52.26	ug/l	96
15) Acrylonitrile	2.90	53	1238389	237.92	ug/l	97
16) Allyl Chloride	2.07	41	877320	51.83	ug/l	95
17) Acetone	2.20	43	1450153	217.40	ug/l	97
18) Carbon Disulfide	1.77	76	1254644	51.81	ug/l	98
19) Methyl Acetate	2.32	43	1924233	46.51	ug/l	94
20) Methyl tert-butyl Ether	2.40	73	1664115	50.61	ug/l	99
21) Methylene Chloride	2.15	84	509834m	56.74	ug/l	
22) trans-1,2-Dichloroethene	2.28	96	487562	54.01	ug/l	93
23) Vinyl Acetate	3.15	43	4212542	224.29	ug/l	96
24) 1,1-Dichloroethane	2.84	63	889222	45.50	ug/l	100
25) 2-Butanone	4.29	43	3168007	214.54	ug/l	96
26) 2,2-Dichloropropane	3.56	77	544962	44.42	ug/l	98
27) cis-1,2-Dichloroethene	3.44	96	667381	52.93	ug/l	91
28) Bromochloromethane	3.68	128	209164	49.66	ug/l	83
29) Chloroform	3.83	83	1129620	48.90	ug/l	96
30) Cyclohexane	3.66	56	694395	44.35	ug/l	92
31) Tetrahydrofuran	4.04	42	1850620	223.28	ug/l #	88
32) 1,1,1-Trichloroethane	4.06	97	706868	42.51	ug/l	97
36) 1,1-Dichloropropene	4.25	75	840329	48.90	ug/l	95
37) Ethyl acetate	4.08	43	1489453	46.17	ug/l #	54
38) Carbon Tetrachloride	3.95	117	624346	46.67	ug/l	95

Data Path : W:\HPCHEM1\MSVOA_H\DATA\VH092215\
 Data File : VH057119.D
 Acq On : 22 Sep 2015 22:27
 Operator : SY/FY
 Sample : VSTDCCC050
 Misc : 5.01g/10mL//100uL/5mL/MSVOA_H/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_H
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 9/23/2015 11:46:56 AM

Quant Time: Sep 23 06:51:38 2015
 Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 18 15:34:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	4.60	78	2077539	50.77	ug/l	96
40) Methacrylonitrile	4.70	41	669720	46.91	ug/l	91
41) 1,2-Dichloroethane	4.90	62	852612	47.21	ug/l	99
42) Isopropyl Acetate	5.45	43	1939947	46.06	ug/l #	93
43) Trichloroethene	5.47	130	572785	55.08	ug/l	97
44) Methylcyclohexane	5.43	83	475840	48.04	ug/l	88
45) 1,2-Dichloropropane	6.19	63	649603	50.07	ug/l	95
46) Dibromomethane	6.04	93	425443	50.43	ug/l	98
47) Bromodichloromethane	6.34	83	860751	49.81	ug/l	93
49) 4-Methyl-2-Pentanone	8.21	43	5706155	223.64	ug/l	98
50) Toluene	7.58	92	1388075	52.98	ug/l	97
51) t-1,3-Dichloropropene	8.22	75	946704	47.78	ug/l	99
52) Methyl Methacrylate	6.67	69	684136	53.29	ug/l	96
53) 1,4-Dioxane	6.66	88	159142	1056.88	ug/l	96
54) cis-1,3-Dichloropropene	7.25	75	1063339	50.54	ug/l	94
55) 1,1,2-Trichloroethane	8.43	97	569304	51.18	ug/l	93
56) Ethyl Methacrylate	8.57	69	1141566	51.97	ug/l	92
57) 1,3-Dichloropropane	8.79	76	1152774	50.96	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.25	63	2883230	265.46	ug/l #	89
59) 2-Hexanone	9.43	43	4450103	223.22	ug/l	97
60) Dibromochloromethane	8.65	129	675270	53.55	ug/l	99
61) 1,2-Dibromoethane	8.93	107	702549	54.89	ug/l	96
64) Tetrachloroethene	8.10	164	385195	55.72	ug/l	95
65) Chlorobenzene	9.74	112	1436259	54.10	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.86	131	487461	53.21	ug/l	98
67) Ethyl Benzene	9.83	106	669057	52.65	ug/l	97
68) m/p-Xylenes	10.06	106	1655132	107.08	ug/l	98
69) o-Xylene	10.65	106	809103	54.51	ug/l	97
70) Styrene	10.73	104	1391768	53.69	ug/l	99
71) Bromoform	10.71	173	429502	54.80	ug/l	99
73) Isopropylbenzene	11.06	105	1639440	51.51	ug/l	98
74) n-Amyl Acetate	11.32	43	1678846	49.64	ug/l	92
75) 1,1,2,2-Tetrachloroethane	11.63	83	876857	52.55	ug/l	99
76) 1,2,3-Trichloropropane	11.72	75	686626	52.44	ug/l	94
77) Bromobenzene	11.43	156	506696	55.93	ug/l	88
78) n-propylbenzene	11.53	91	1688197	49.61	ug/l	96
79) 2-Chlorotoluene	11.66	91	1038891	50.61	ug/l	98
80) 1,3,5-Trimethylbenzene	11.77	105	1075329	51.70	ug/l	94
81) trans-1,4-Dichloro-2-Buten	11.81	75	485995	50.93	ug/l	96
82) 4-Chlorotoluene	11.83	91	1270479	51.23	ug/l	93
83) tert-Butylbenzene	12.06	119	966119	49.20	ug/l	97
84) 1,2,4-Trimethylbenzene	12.14	105	1066905	49.70	ug/l	100
85) sec-Butylbenzene	12.24	105	1018066	48.48	ug/l	100
86) p-Isopropyltoluene	12.39	119	819703	51.41	ug/l	96
87) 1,3-Dichlorobenzene	12.41	146	575871	53.27	ug/l	98
88) 1,4-Dichlorobenzene	12.50	146	605586	54.10	ug/l	99
89) n-Butylbenzene	12.77	91	650391	51.03	ug/l	99
90) Hexachloroethane	12.84	117	157039	46.53	ug/l	83
91) 1,2-Dichlorobenzene	12.88	146	511734	52.54	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	13.57	75	93861	50.16	ug/l	92

Data Path : W:\HPCHEM1\MSVOA_H\DATA\VH092215\
Data File : VH057119.D
Acq On : 22 Sep 2015 22:27
Operator : SY/FY
Sample : VSTDCCC050
Misc : 5.01g/10mL//100uL/5mL/MSVOA_H/MEOH
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

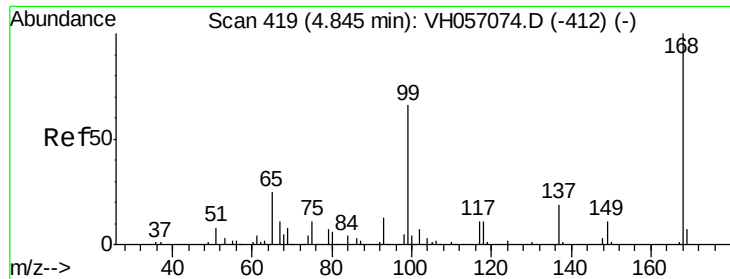
Manual Integrations
APPROVED

MMDadoda
9/23/2015 11:46:56 AM

Quant Time: Sep 23 06:51:38 2015
Quant Method : W:\HPCHEM1\MSVOA_H\METHODS\82H091715W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 18 15:34:01 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.13	180	107174	49.15	ug/l	82
94) Hexachlorobutadiene	14.12	225	56927	56.49	ug/l	97
95) Naphthalene	14.38	128	442102	49.93	ug/l	98
96) 1,2,3-Trichlorobenzene	14.53	180	75127	50.33	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.84 min Scan# 419

Delta R.T. -0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 168 Resp: 890159

Ion Ratio Lower Upper

168 100

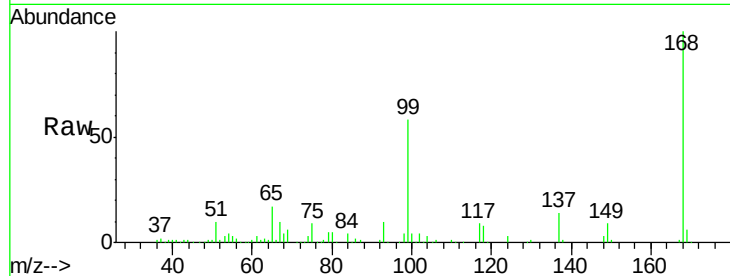
99 57.8 55.8 83.6

Manual Integrations

APPROVED

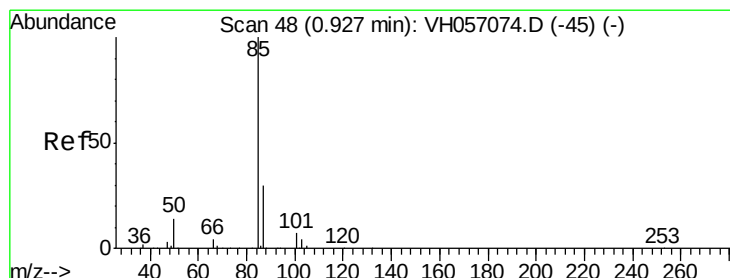
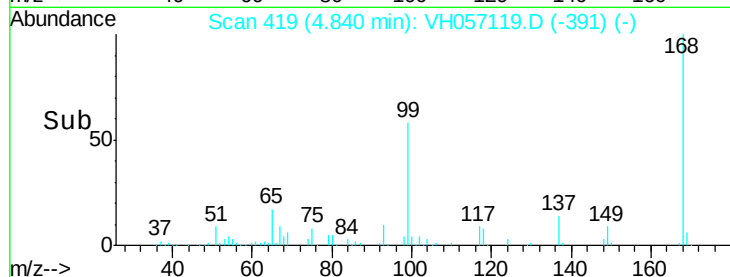
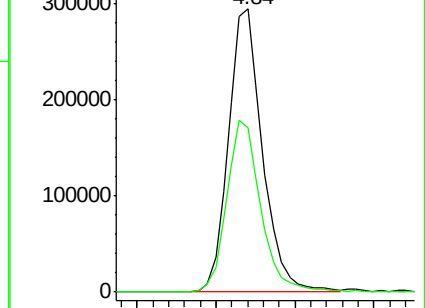
MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VHC



#2

Dichlorodifluoromethane

Concen: 45.75 ug/l

RT: 0.93 min Scan# 48

Delta R.T. 0.00 min

Lab File: VH057119.D

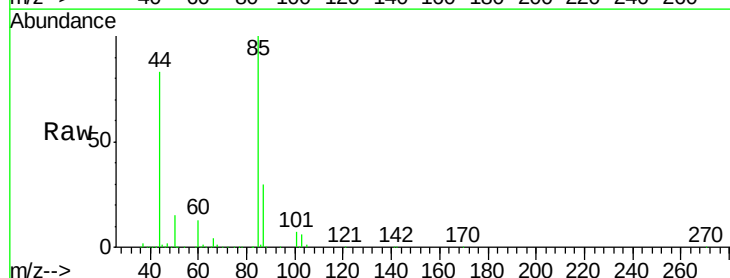
Acq: 22 Sep 2015 22:27

Tgt Ion: 85 Resp: 514717

Ion Ratio Lower Upper

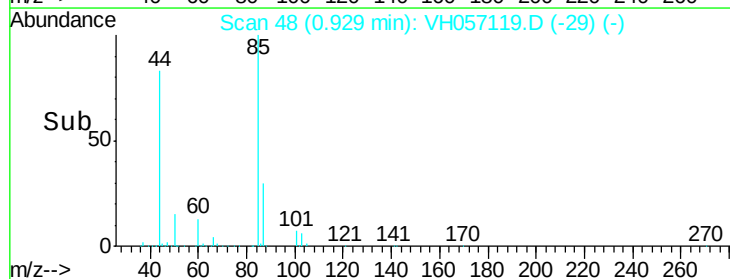
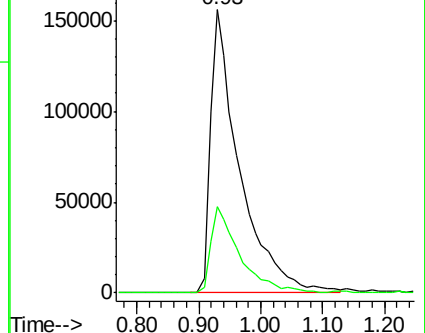
85 100

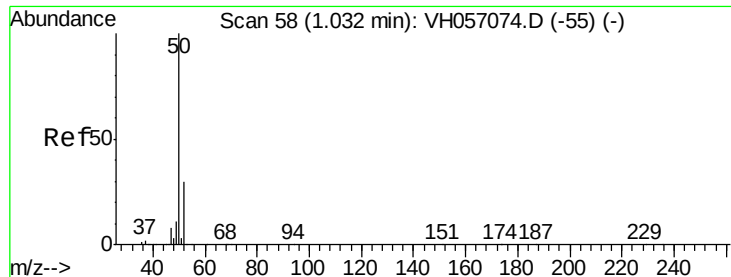
87 30.3 16.0 47.9



Abundance Ion 85.00 (84.70 to 85.70): VHC

Ion 87.00 (86.70 to 87.70): VHC





#3

Chloromethane

Concen: 44.04 ug/l

RT: 1.02 min Scan# 57

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 623762

Ion Ratio Lower Upper

50 100

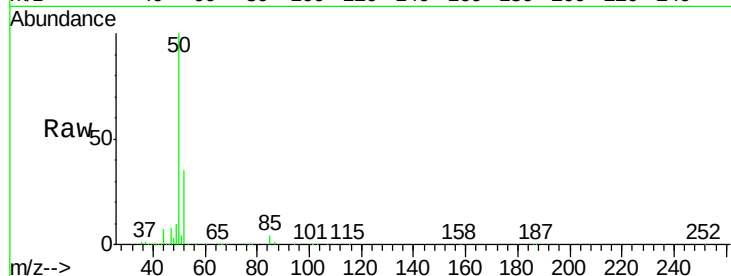
52 35.2 25.8 38.8

Manual Integrations

APPROVED

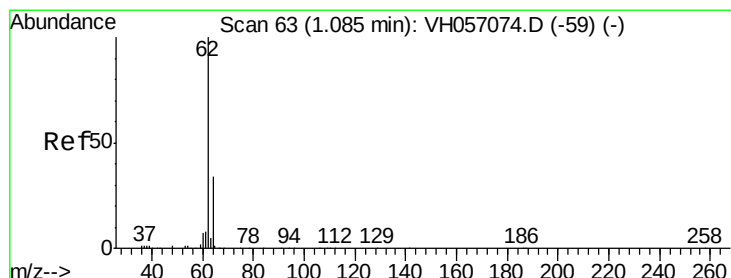
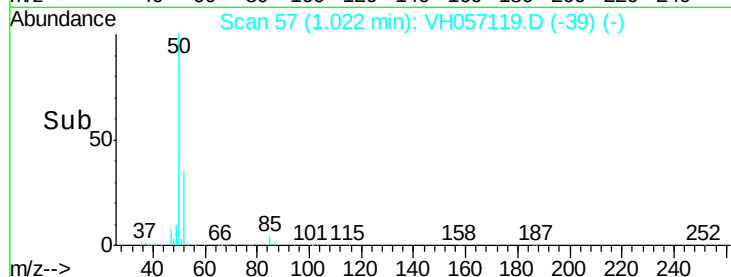
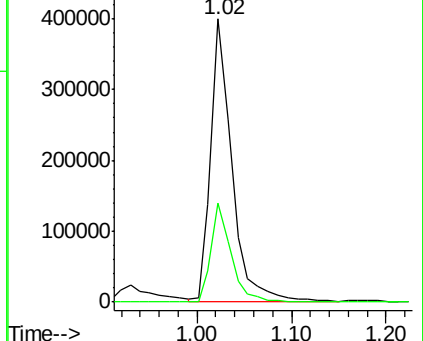
MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 50.00 (49.70 to 50.70): VH0

Ion 52.00 (51.70 to 52.70): VH0



#4

Vinyl Chloride

Concen: 44.33 ug/l

RT: 1.09 min Scan# 63

Delta R.T. 0.00 min

Lab File: VH057119.D

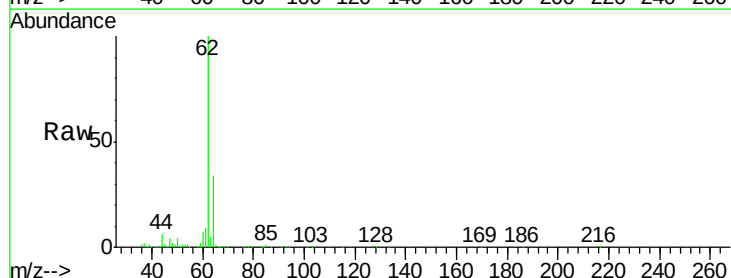
Acq: 22 Sep 2015 22:27

Tgt Ion: 62 Resp: 519040

Ion Ratio Lower Upper

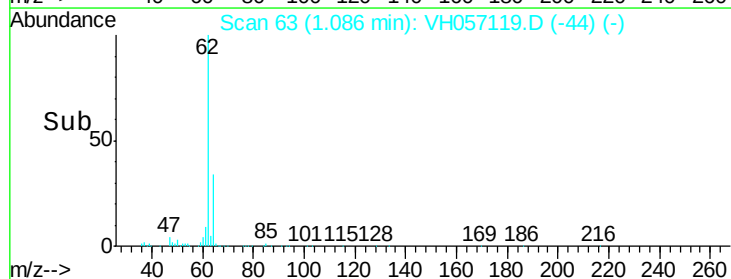
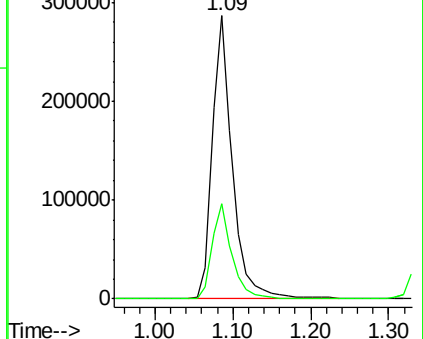
62 100

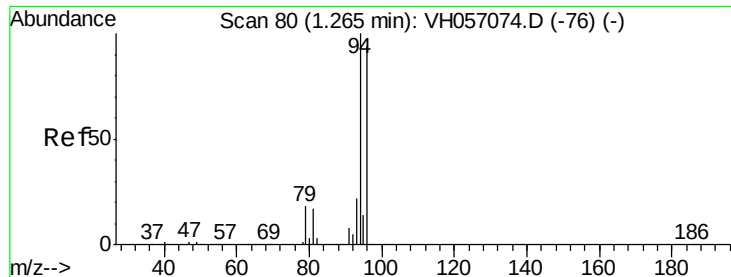
64 33.6 26.6 40.0



Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 64.00 (63.70 to 64.70): VH0





#5

Bromomethane

Concen: 49.81 ug/l

RT: 1.27 min Scan# 80

Delta R.T. 0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 94 Resp: 255649

Ion Ratio Lower Upper

94 100

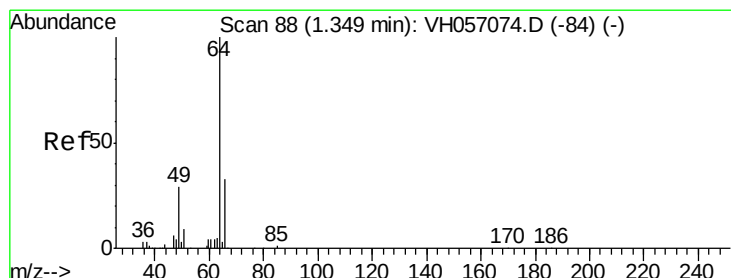
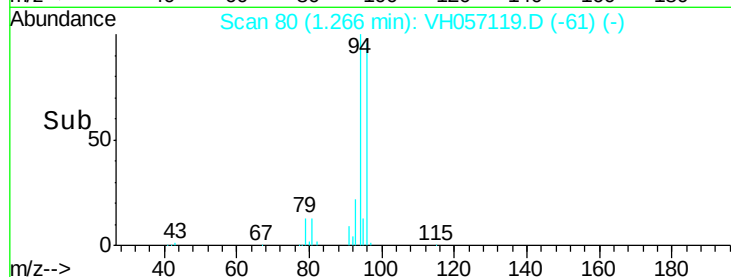
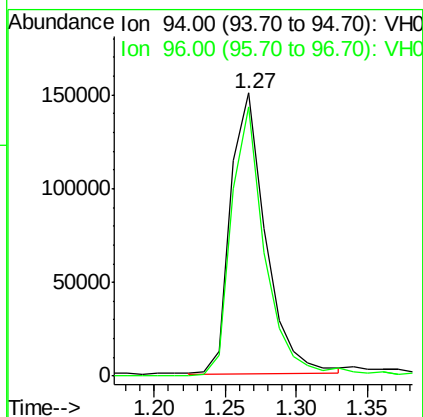
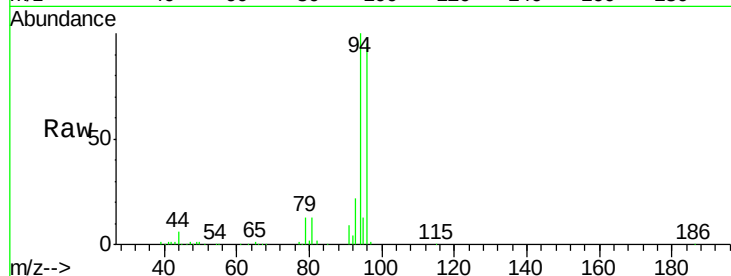
96 95.2 78.5 117.7

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#6

Chloroethane

Concen: 51.21 ug/l

RT: 1.35 min Scan# 88

Delta R.T. 0.00 min

Lab File: VH057119.D

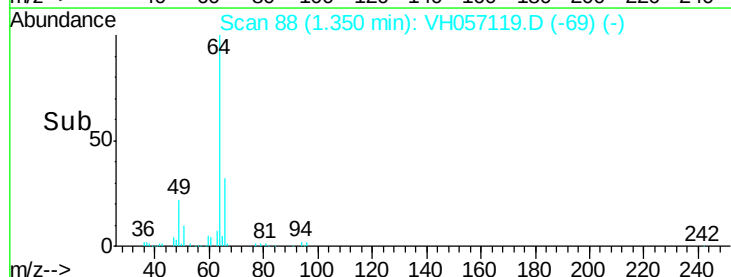
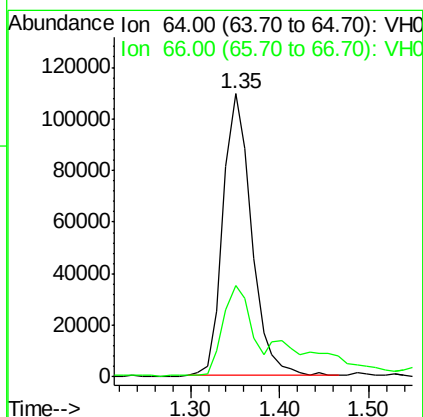
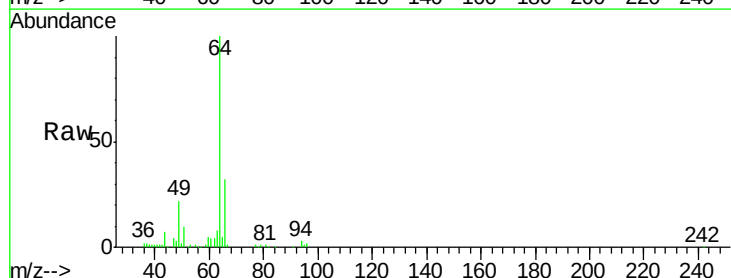
Acq: 22 Sep 2015 22:27

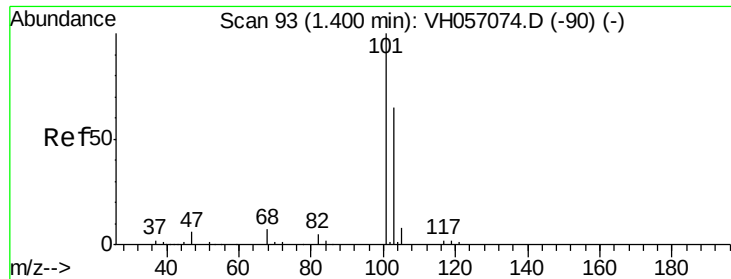
Tgt Ion: 64 Resp: 243545

Ion Ratio Lower Upper

64 100

66 32.4 25.2 37.8





#7

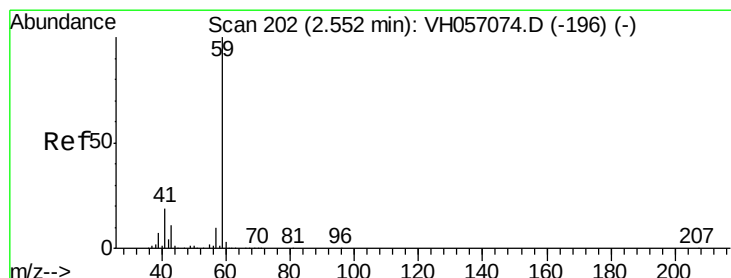
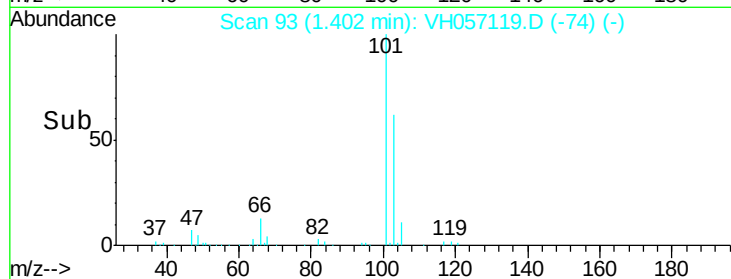
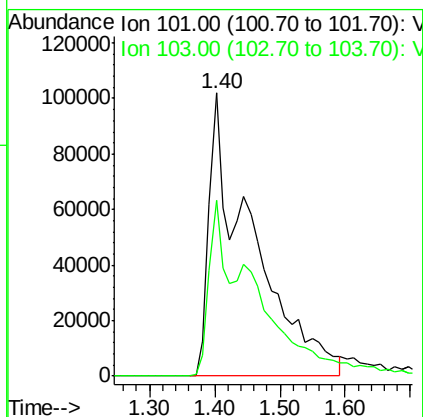
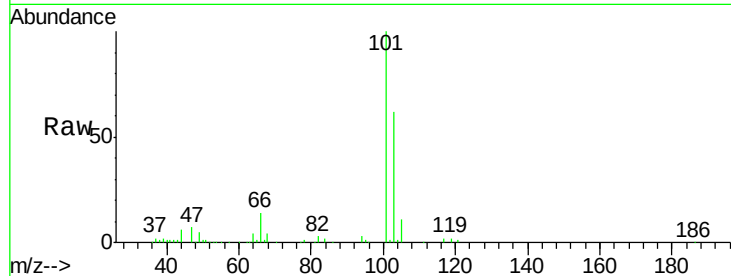
Trichlorofluoromethane
Concen: 42.21 ug/l m
RT: 1.40 min Scan# 93
Delta R.T. 0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	462166		
103	62.2	54.9	82.3	

Manual Integrations
APPROVED

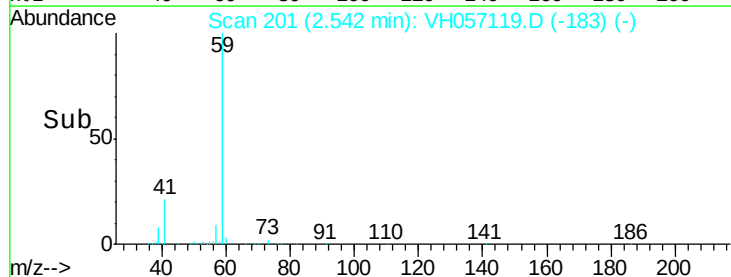
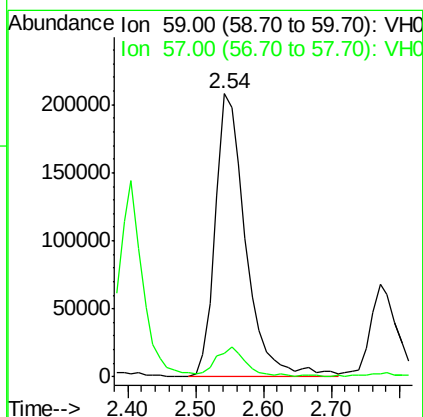
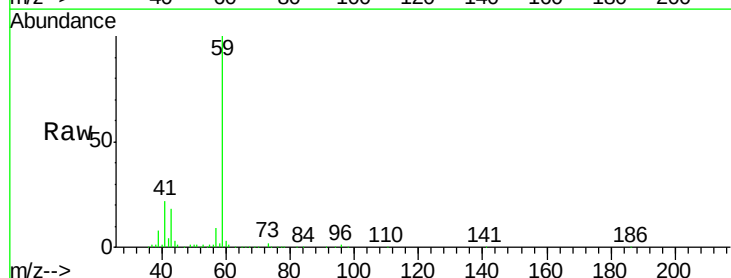
MMDadoda
9/23/2015 11:46:56 AM

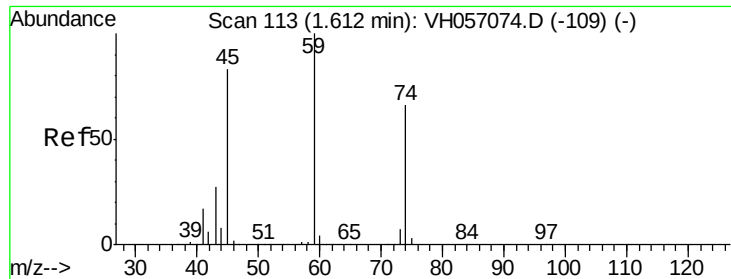


#8

Tert butyl alcohol
Concen: 227.17 ug/l
RT: 2.54 min Scan# 201
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
59	100	648366		
57	8.5	9.0	11.0	#





#9

Diethyl Ether

Concen: 56.56 ug/l

RT: 1.60 min Scan# 112

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 74 Resp: 306229

Ion Ratio Lower Upper

74 100

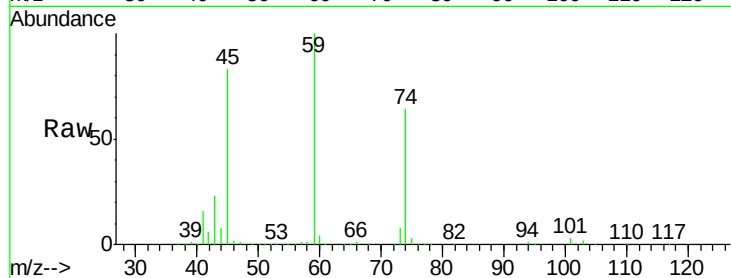
45 129.0 0.0 304.4

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 74.00 (73.70 to 74.70): VH0

Ion 45.00 (44.70 to 45.70): VH0

200000

150000

100000

50000

0

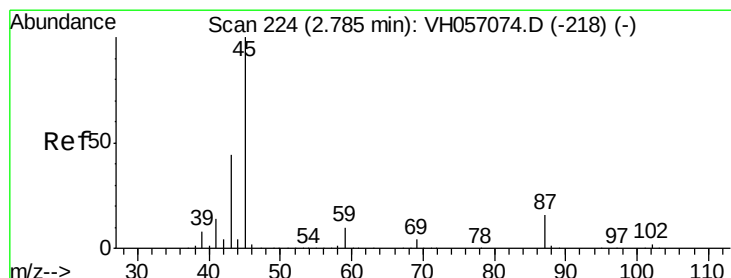
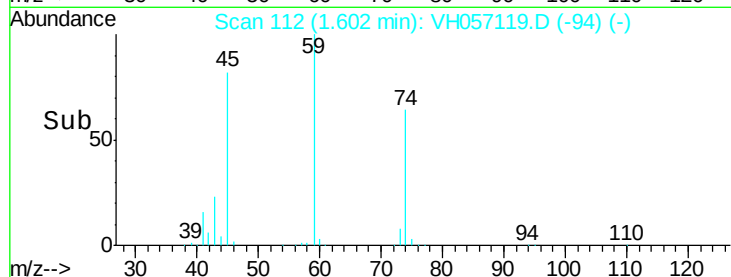
1.50

1.60

1.70

1.80

Time-->



#10

Diisopropyl ether

Concen: 43.84 ug/l

RT: 2.77 min Scan# 223

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Tgt Ion: 45 Resp: 1739762

Ion Ratio Lower Upper

45 100

43 42.1 34.6 52.0

87 18.0 12.6 19.0

59 10.3 8.4 12.6

Abundance Ion 45.00 (44.70 to 45.70): VH0

Ion 43.00 (42.70 to 43.70): VH0

Ion 87.00 (86.70 to 87.70): VH0

Ion 59.00 (58.70 to 59.70): VH0

1000000

800000

600000

400000

200000

0

2.70

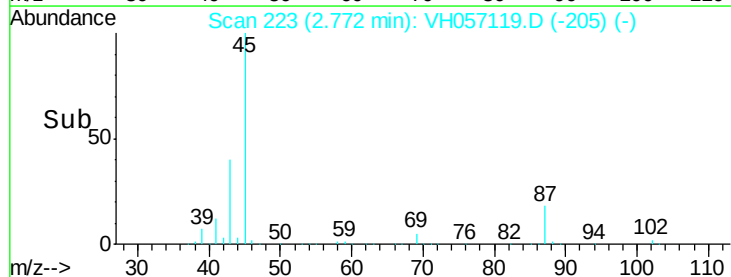
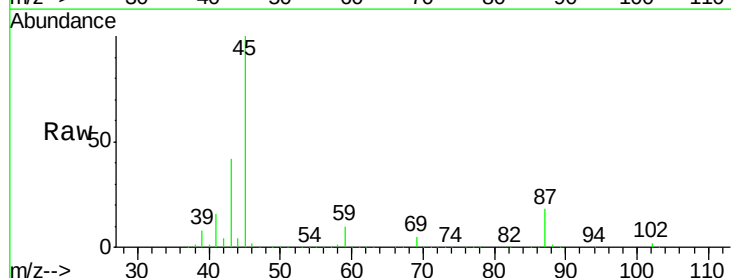
2.77

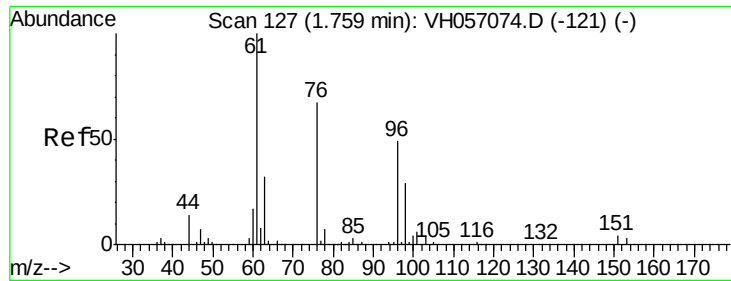
2.80

2.90

3.00

Time-->





#11

1,1-Dichloroethene

Concen: 55.53 ug/l

RT: 1.76 min Scan# 127

Delta R.T. 0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 96 Resp: 456010
Ion Ratio Lower Upper

96 100

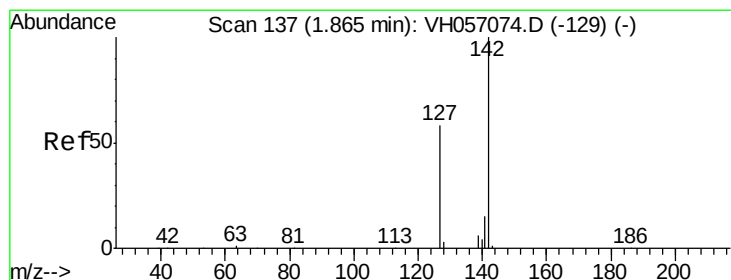
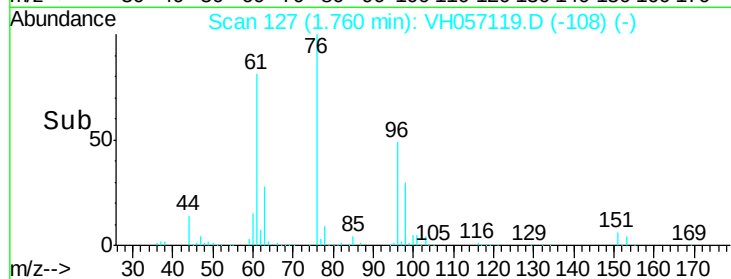
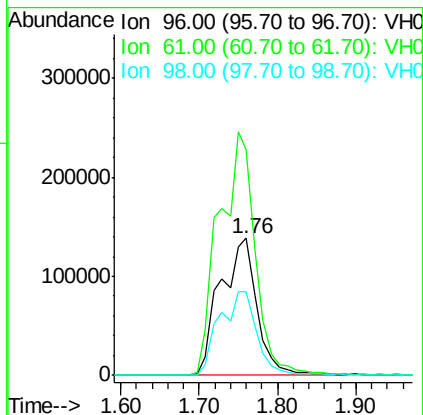
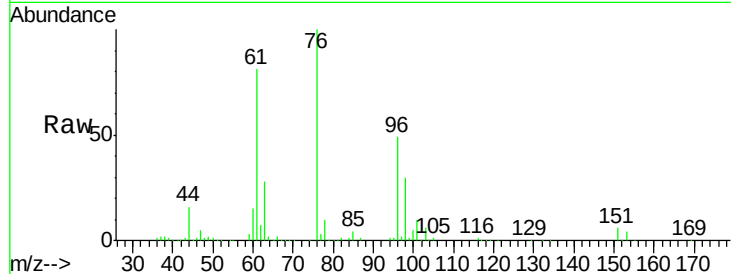
61 164.6 158.4 237.6

98 61.4 50.6 75.8

Manual Integrations
APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#12

Methyl Iodide

Concen: 55.78 ug/l m

RT: 1.86 min Scan# 136

Delta R.T. -0.01 min

Lab File: VH057119.D

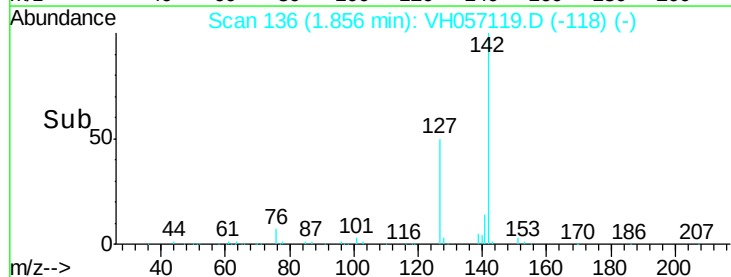
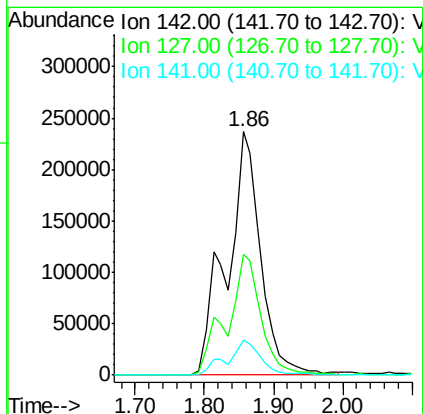
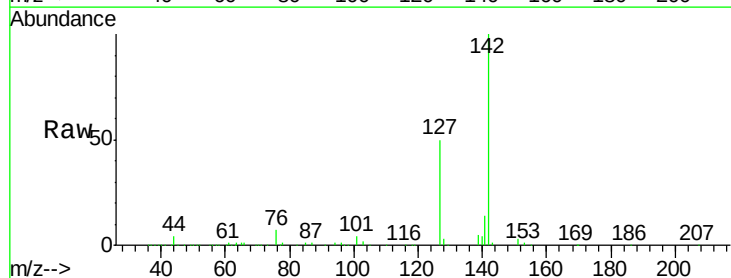
Acq: 22 Sep 2015 22:27

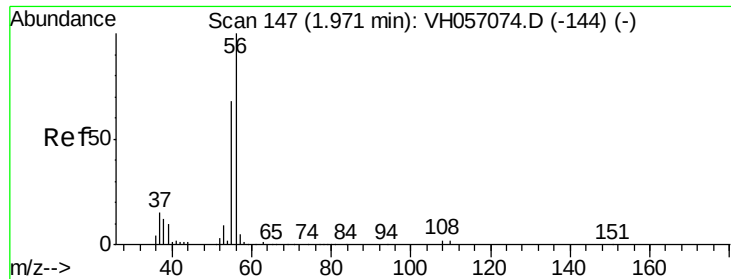
Tgt Ion: 142 Resp: 807239
Ion Ratio Lower Upper

142 100

127 49.8 30.0 90.1

141 14.3 7.1 21.4





#13

Acrolein

Concen: 158.13 ug/l

RT: 1.97 min Scan# 147

Delta R.T. 0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 269893

Ion Ratio Lower Upper

56 100

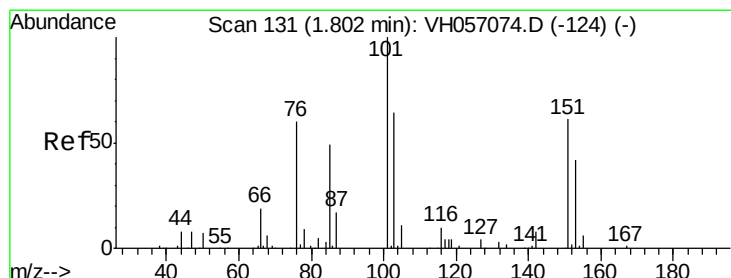
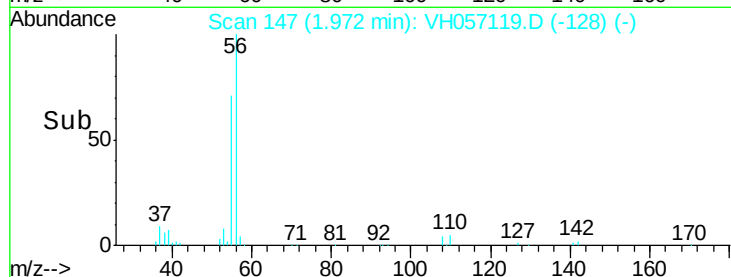
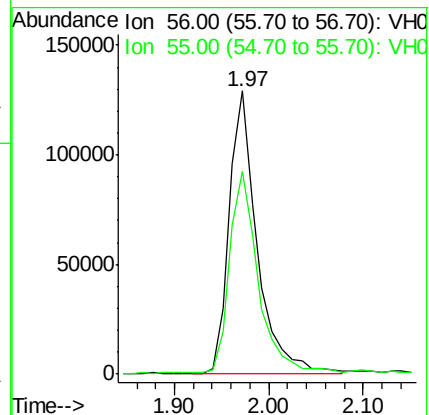
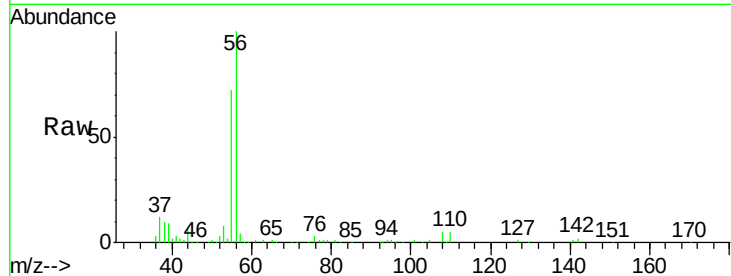
55 71.8 52.9 79.3

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#14

1,1,2-Trichlorotrifluoroethane

Concen: 52.26 ug/l

RT: 1.79 min Scan# 130

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

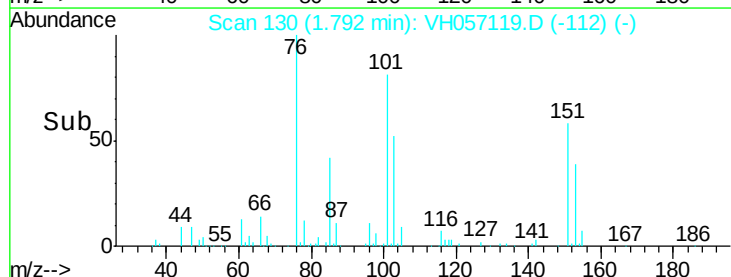
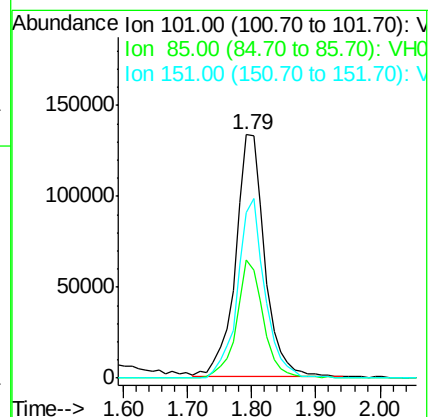
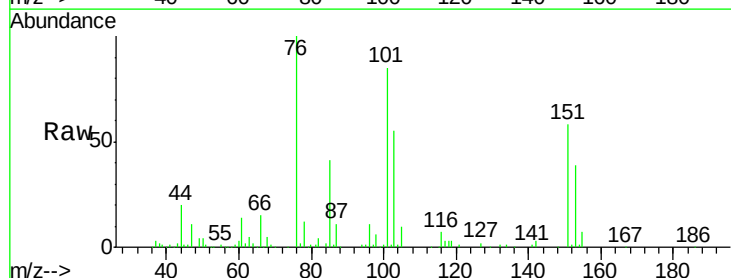
Tgt Ion: 101 Resp: 418014

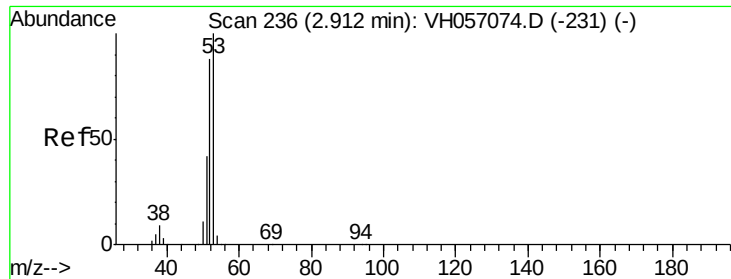
Ion Ratio Lower Upper

101 100

85 48.8 37.9 56.9

151 67.9 50.6 76.0





#15

Acrylonitrile

Concen: 237.92 ug/l

RT: 2.90 min Scan# 235

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 53 Resp: 1238389

Ion Ratio Lower Upper

53 100

52 87.3 67.6 101.4

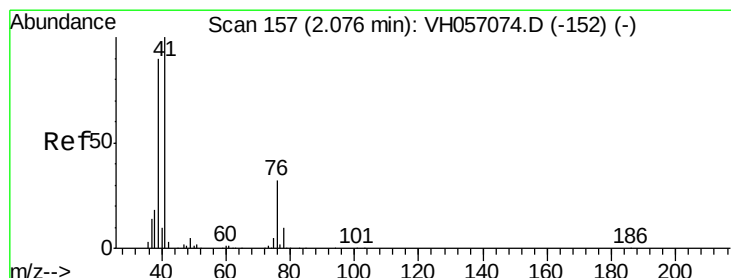
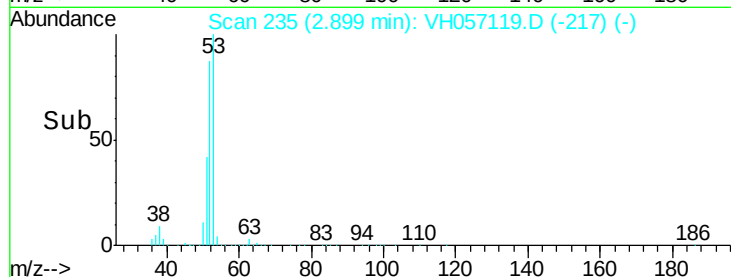
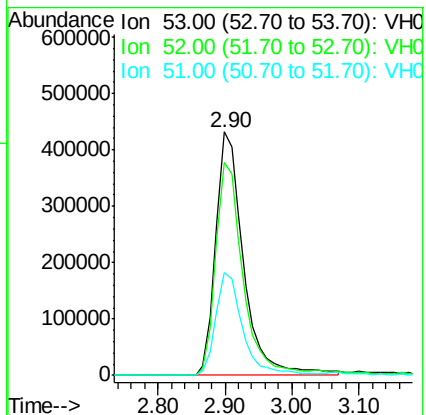
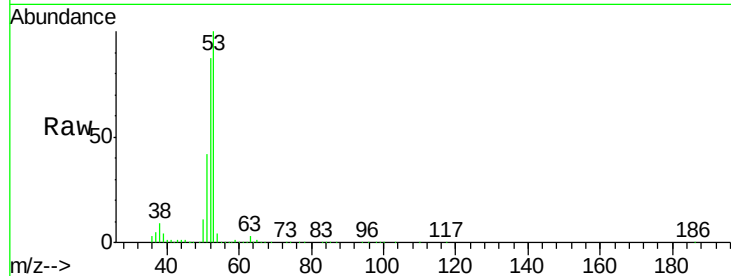
51 42.0 31.8 47.6

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#16

Allyl Chloride

Concen: 51.83 ug/l

RT: 2.07 min Scan# 156

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

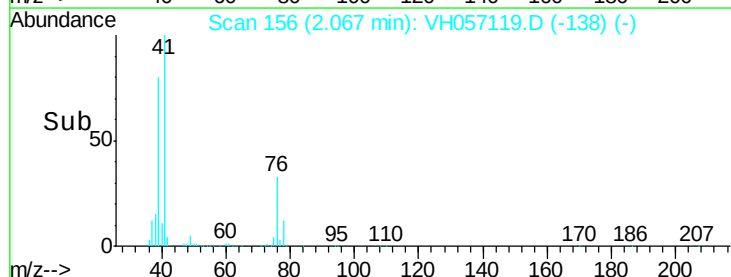
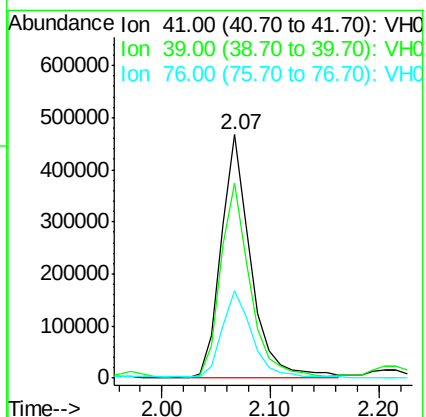
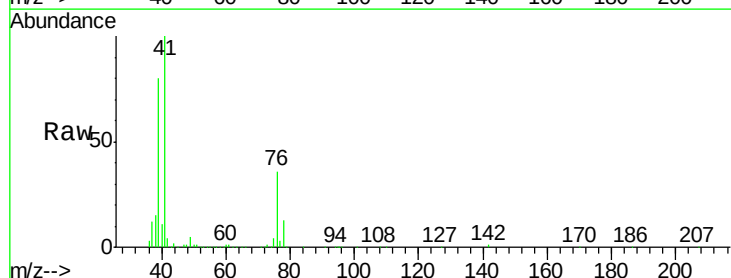
Tgt Ion: 41 Resp: 877320

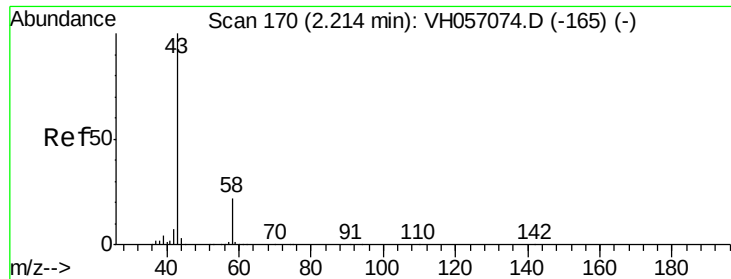
Ion Ratio Lower Upper

41 100

39 80.1 41.0 123.2

76 36.1 14.3 42.9





#17

Acetone

Concen: 217.40 ug/l

RT: 2.20 min Scan# 169

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 1450153

Ion Ratio Lower Upper

43 100

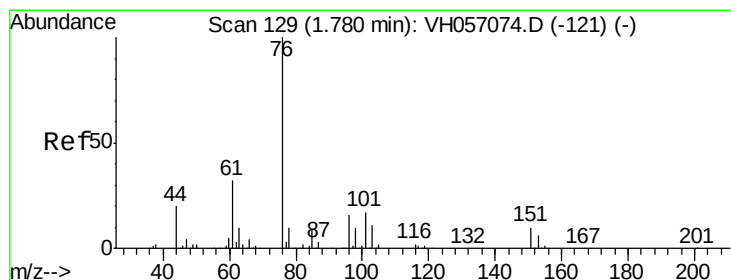
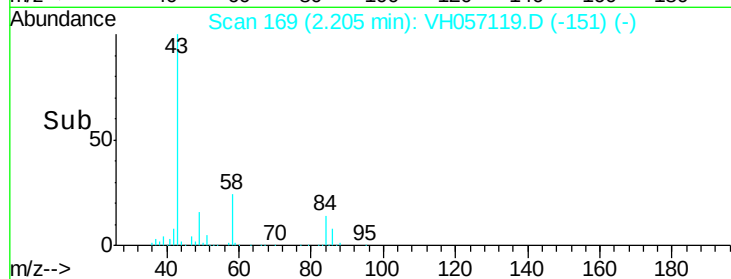
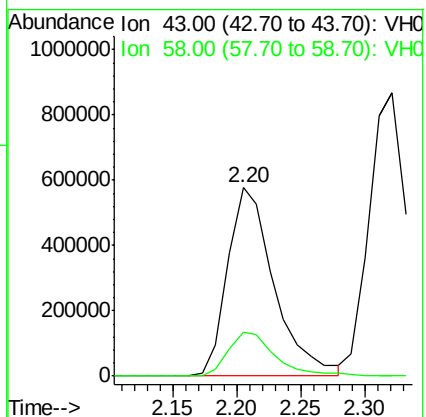
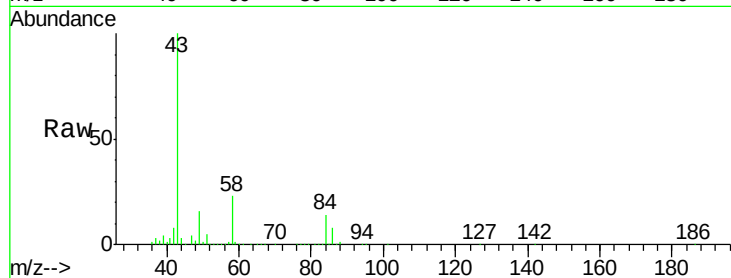
58 23.5 17.7 26.5

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#18

Carbon Disulfide

Concen: 51.81 ug/l

RT: 1.77 min Scan# 128

Delta R.T. -0.01 min

Lab File: VH057119.D

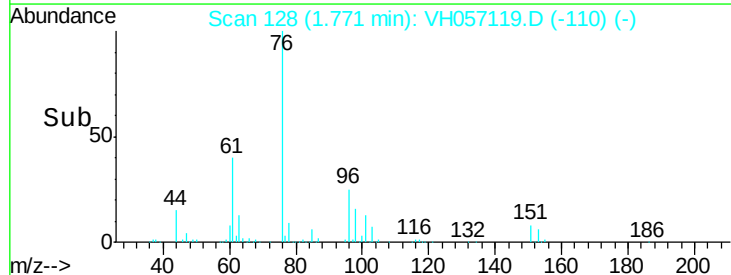
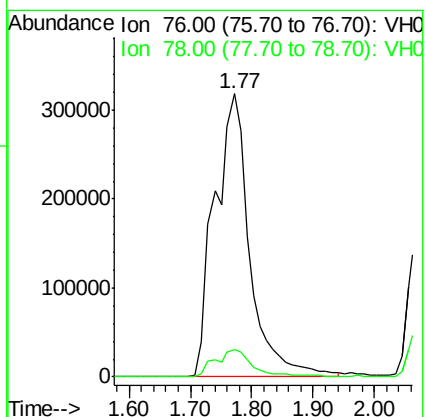
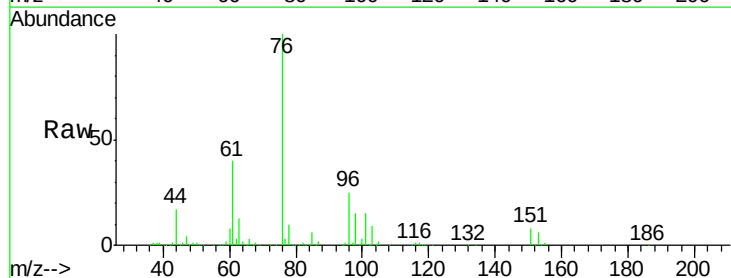
Acq: 22 Sep 2015 22:27

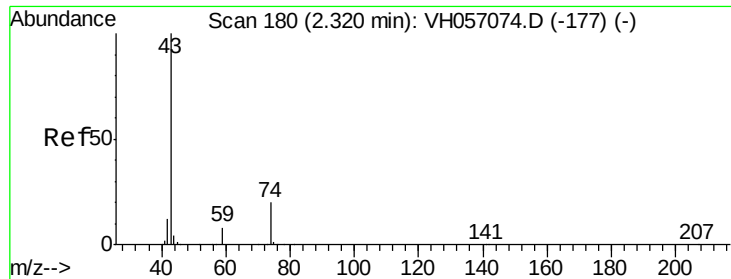
Tgt Ion: 76 Resp: 1254644

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7





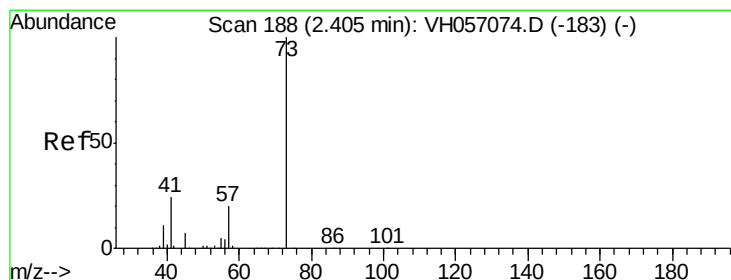
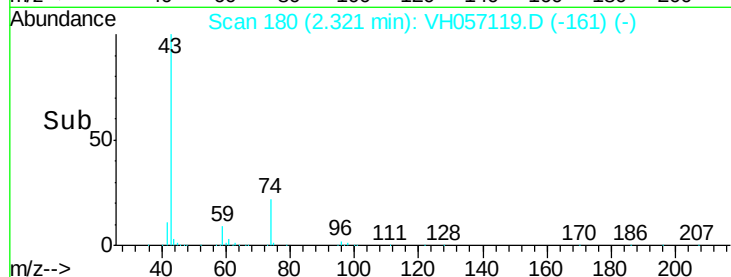
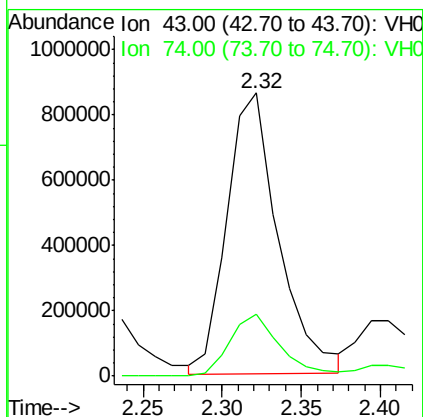
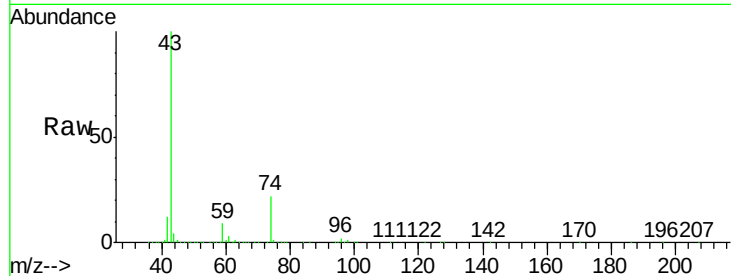
#19
Methyl Acetate
Concen: 46.51 ug/l
RT: 2.32 min Scan# 180
Delta R.T. 0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1924233
Ion Ratio Lower Upper
43 100
74 21.7 13.3 24.7

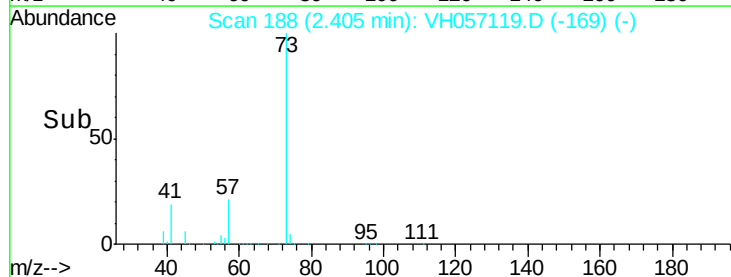
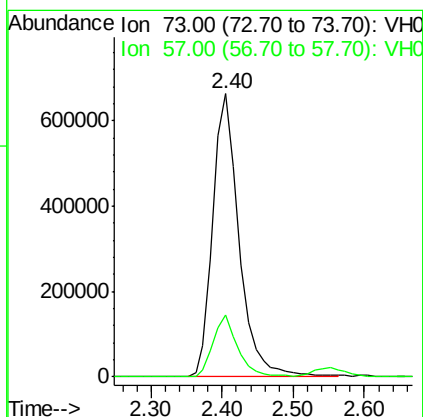
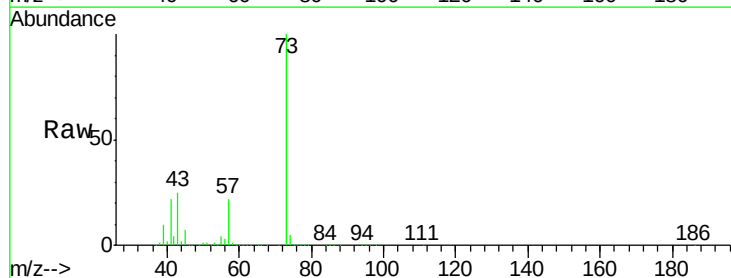
Manual Integrations
APPROVED

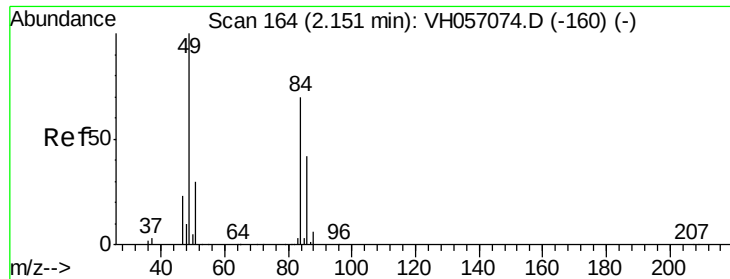
MMDadoda
9/23/2015 11:46:56 AM



#20
Methyl tert-butyl Ether
Concen: 50.61 ug/l
RT: 2.40 min Scan# 188
Delta R.T. 0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion: 73 Resp: 1664115
Ion Ratio Lower Upper
73 100
57 21.8 18.0 27.0





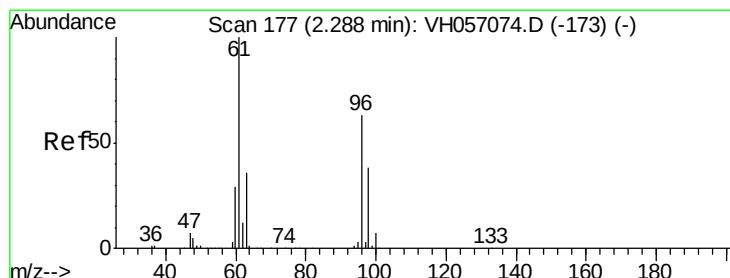
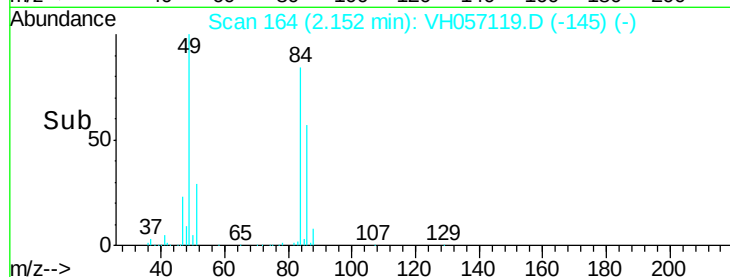
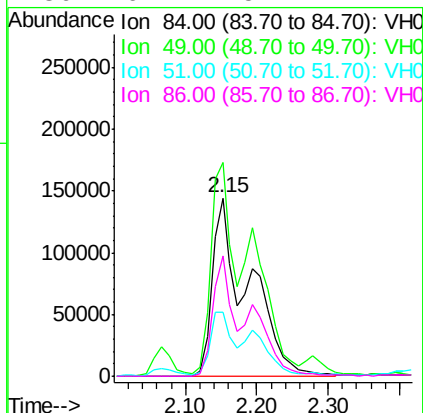
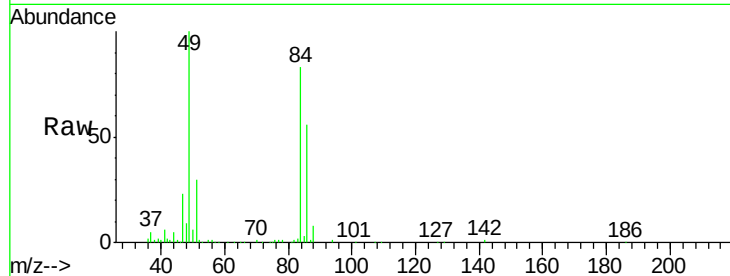
#21
Methylene Chloride
Concen: 56.74 ug/l m
RT: 2.15 min Scan# 164
Delta R.T. 0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
84	100		
49	119.9	132.8	199.2#
51	36.1	39.5	59.3#
86	67.7	51.4	77.2

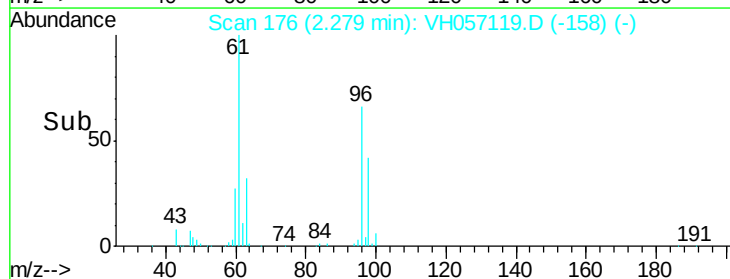
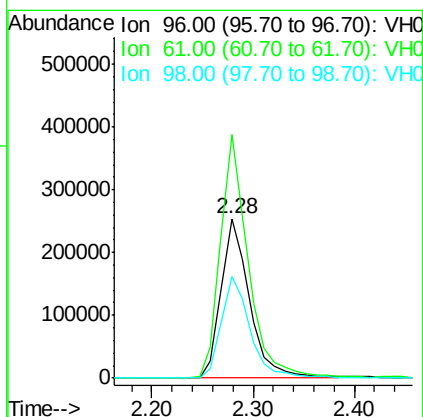
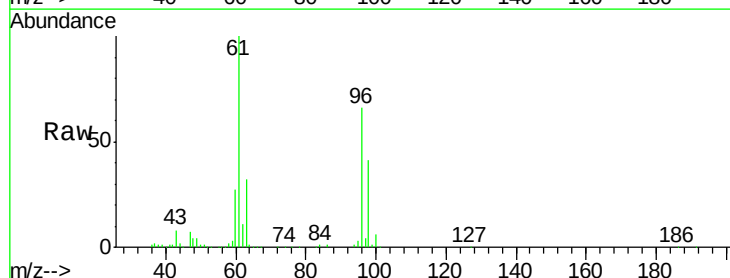
Manual Integrations
APPROVED

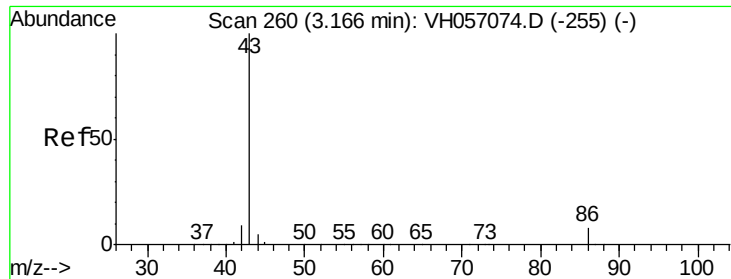
MMDadoda
9/23/2015 11:46:56 AM



#22
trans-1,2-Dichloroethene
Concen: 54.01 ug/l
RT: 2.28 min Scan# 176
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.6	131.7	197.5
98	63.3	49.5	74.3





#23

Vinyl Acetate

Concen: 224.29 ug/l

RT: 3.15 min Scan# 259

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 4212542

Ion Ratio Lower Upper

43 100

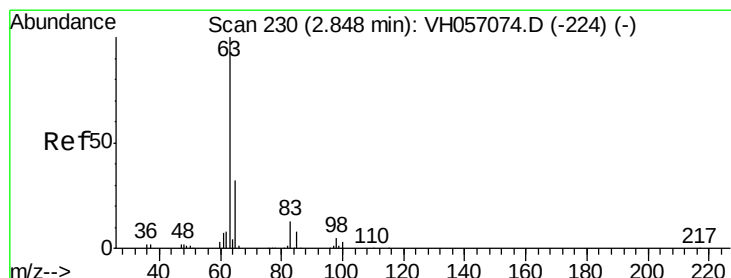
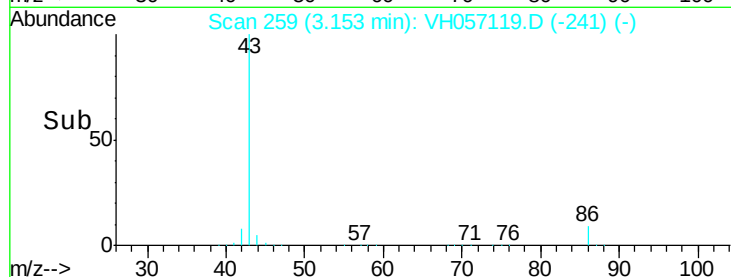
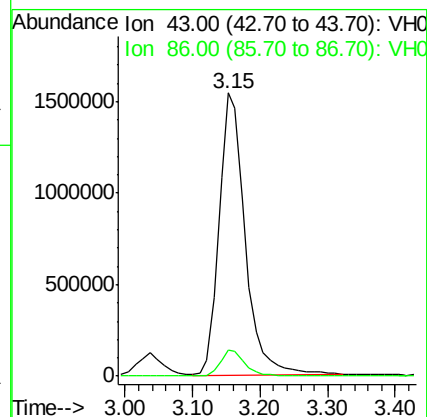
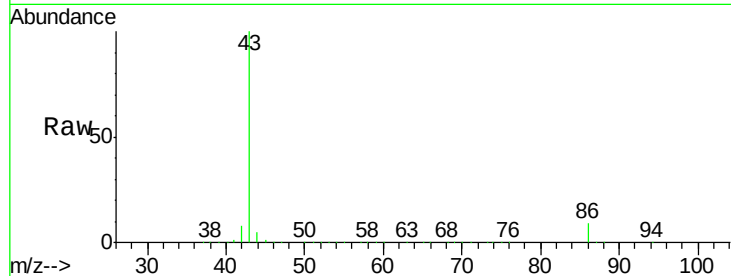
86 9.1 6.2 9.2

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#24

1,1-Dichloroethane

Concen: 45.50 ug/l

RT: 2.84 min Scan# 229

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

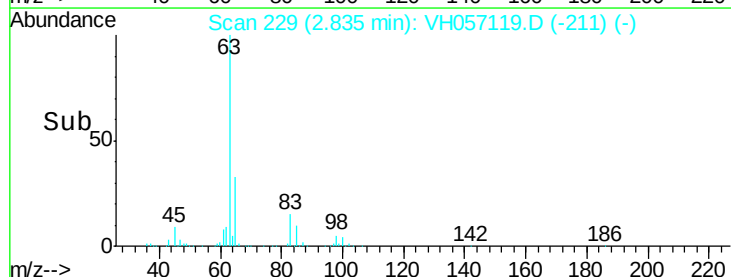
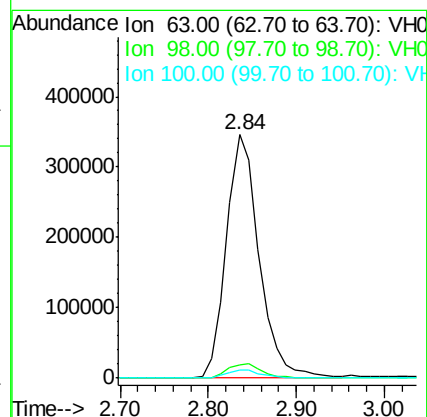
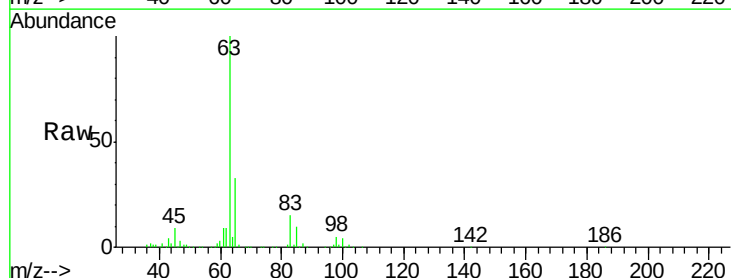
Tgt Ion: 63 Resp: 889222

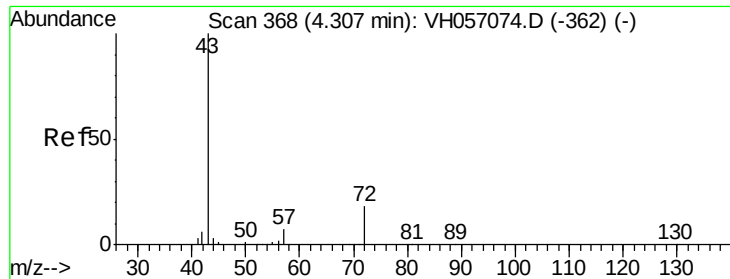
Ion Ratio Lower Upper

63 100

98 5.3 2.6 7.8

100 3.6 1.7 5.0





#25

2-Butanone

Concen: 214.54 ug/l

RT: 4.29 min Scan# 367

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 3168007

Ion Ratio Lower Upper

43 100

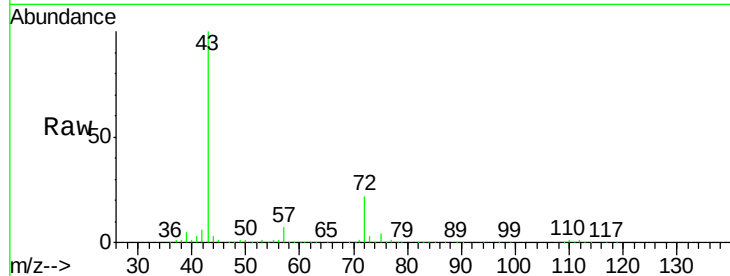
72 21.6 0.0 39.2

Manual Integrations

APPROVED

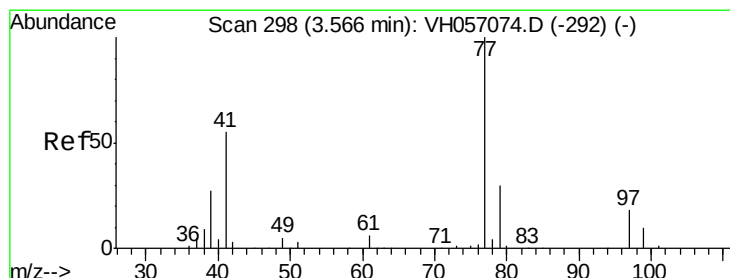
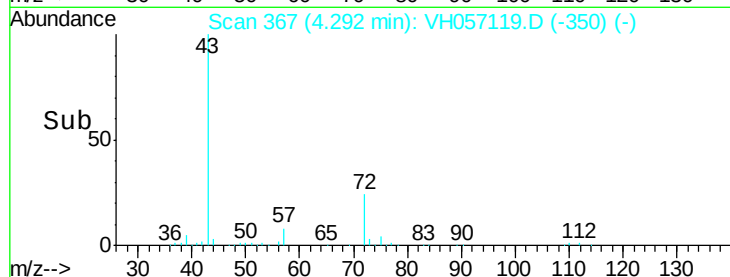
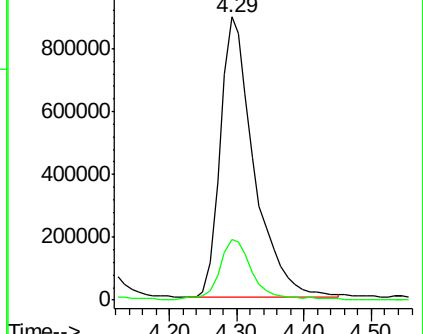
MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 43.00 (42.70 to 43.70): VH0

Ion 72.00 (71.70 to 72.70): VH0



#26

2,2-Dichloropropane

Concen: 44.42 ug/l

RT: 3.56 min Scan# 298

Delta R.T. -0.00 min

Lab File: VH057119.D

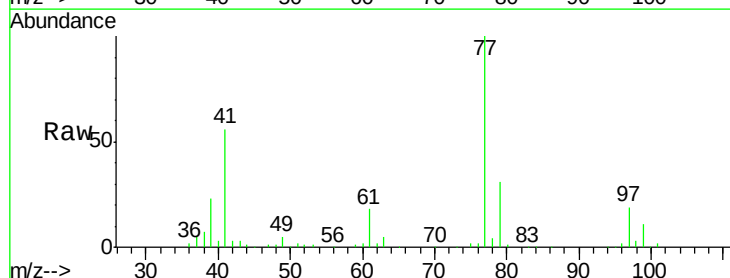
Acq: 22 Sep 2015 22:27

Tgt Ion: 77 Resp: 544962

Ion Ratio Lower Upper

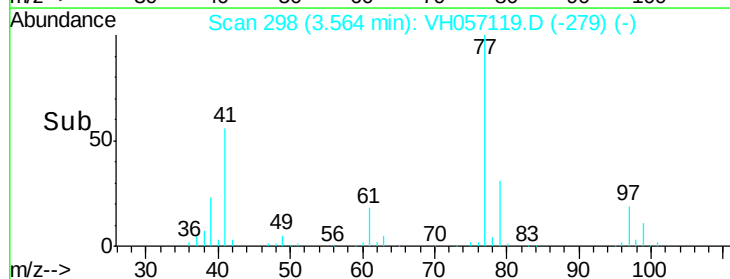
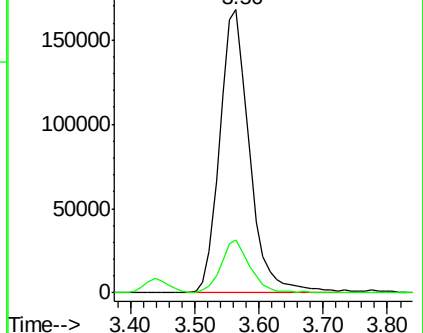
77 100

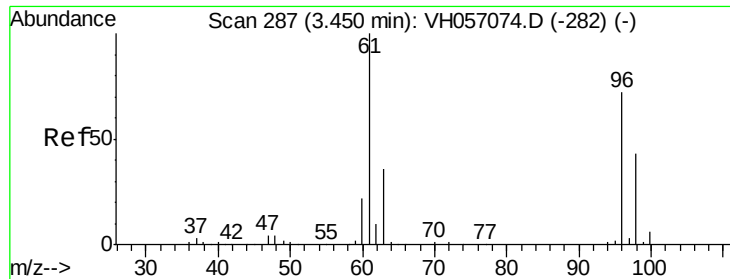
97 18.5 8.8 26.4



Abundance Ion 77.00 (76.70 to 77.70): VH0

Ion 97.00 (96.70 to 97.70): VH0





#27

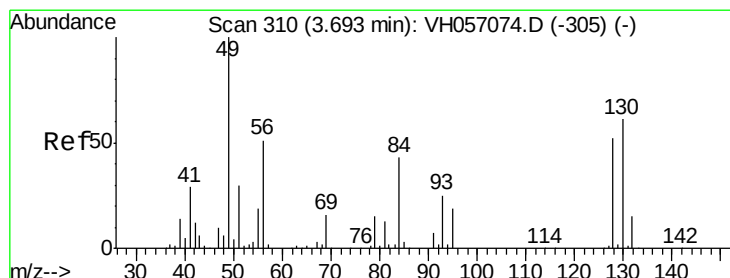
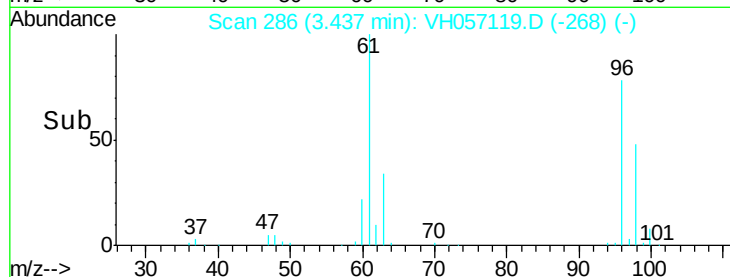
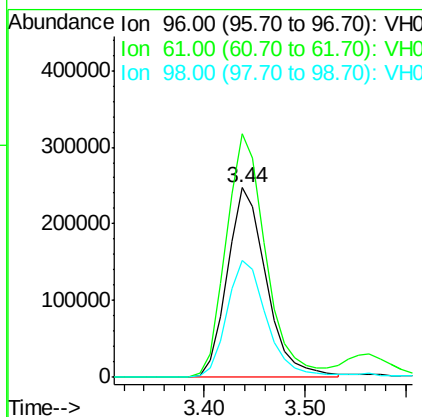
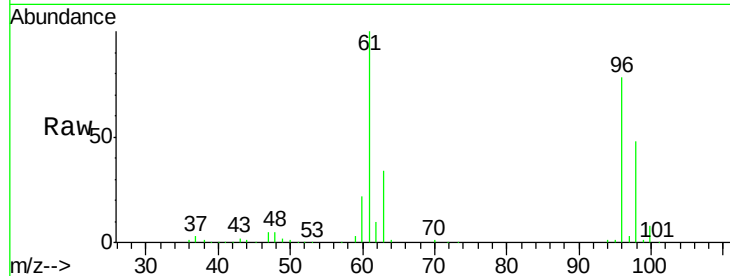
cis-1,2-Dichloroethene
 Concen: 52.93 ug/l
 RT: 3.44 min Scan# 286
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
96	100		
61	128.3	115.4	173.0
98	61.9	49.7	74.5

Manual Integrations
 APPROVED

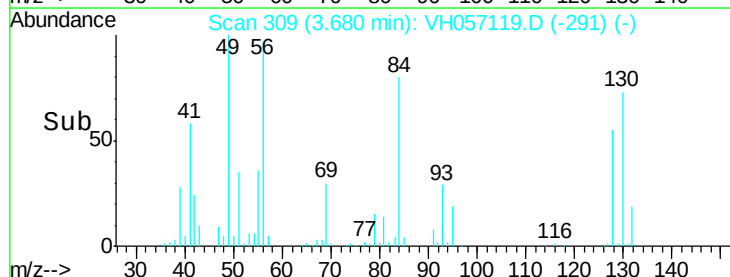
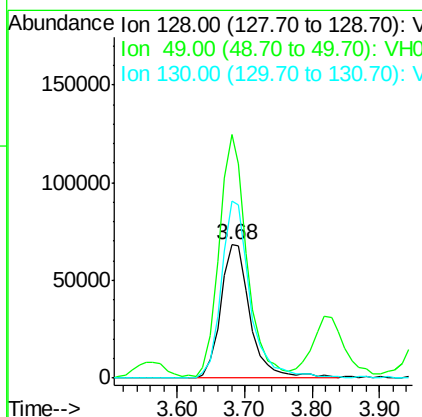
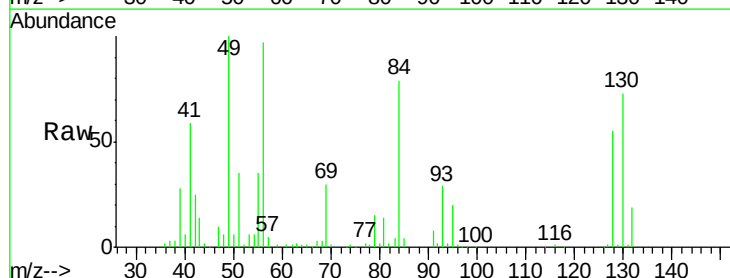
MMDadoda
 9/23/2015 11:46:56 AM

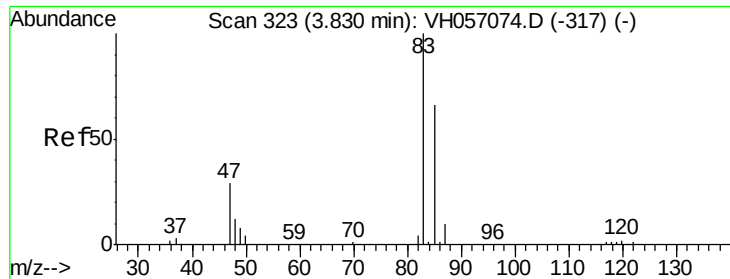


#28

Bromochloromethane
 Concen: 49.66 ug/l
 RT: 3.68 min Scan# 309
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Lower	Upper
128	100		
49	182.6	0.0	441.4
130	132.6	100.7	151.1





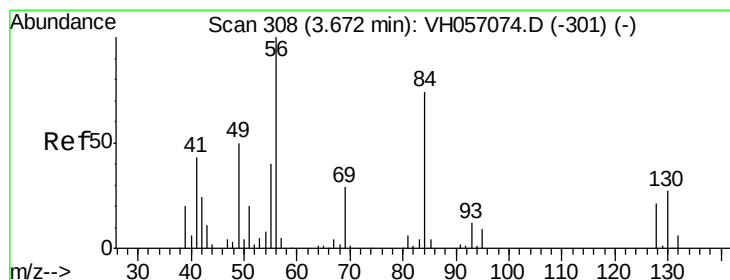
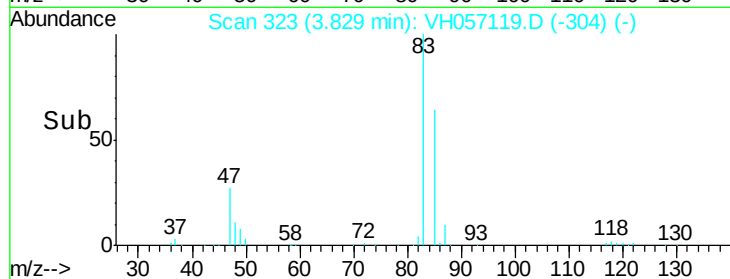
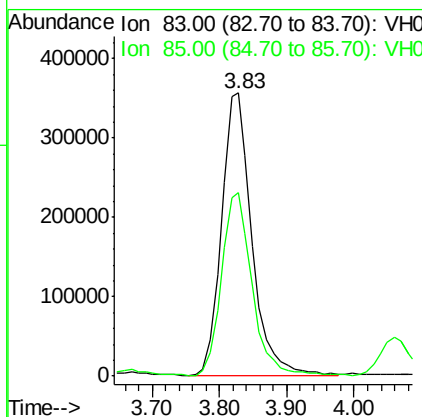
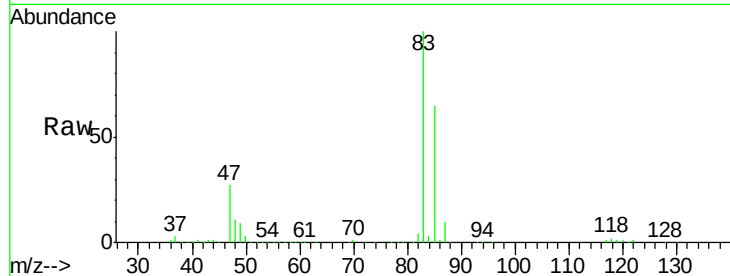
#29
Chloroform
Concen: 48.90 ug/l
RT: 3.83 min Scan# 323
Delta R.T. -0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 1129620
Ion Ratio Lower Upper
83 100
85 65.0 54.3 81.5

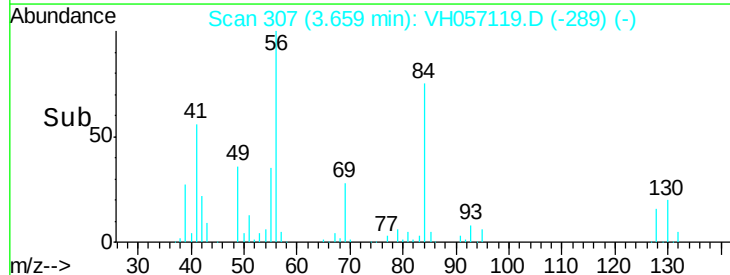
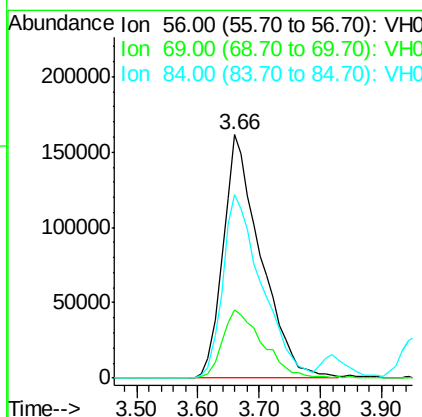
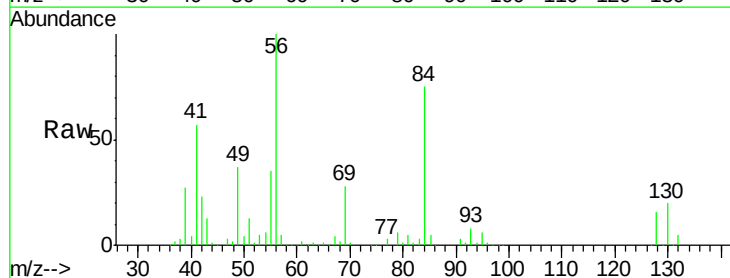
Manual Integrations
APPROVED

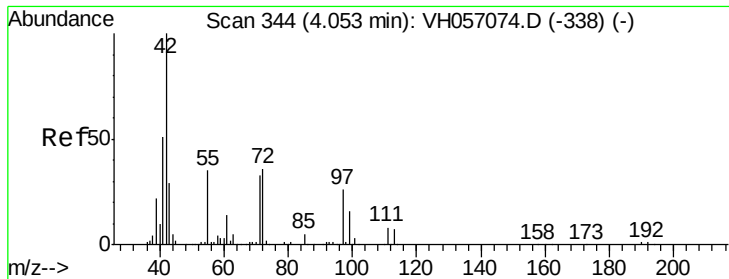
MMDadoda
9/23/2015 11:46:56 AM



#30
Cyclohexane
Concen: 44.35 ug/l
RT: 3.66 min Scan# 307
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion: 56 Resp: 694395
Ion Ratio Lower Upper
56 100
69 28.1 18.1 33.7
84 75.5 0.0 136.8





#31

Tetrahydrofuran

Concen: 223.28 ug/l

RT: 4.04 min Scan# 343

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 1850620

Ion Ratio Lower Upper

42 100

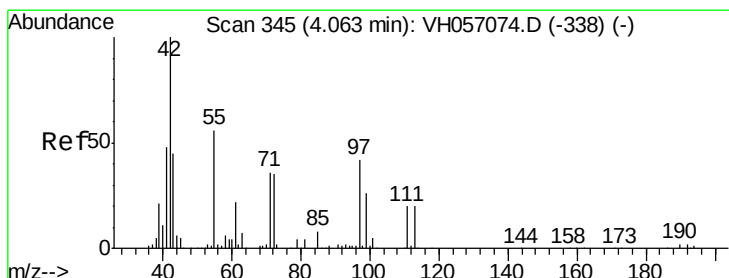
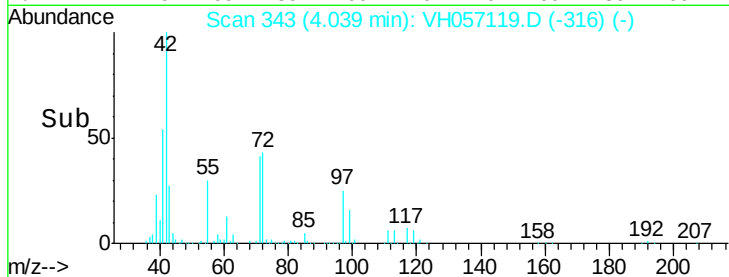
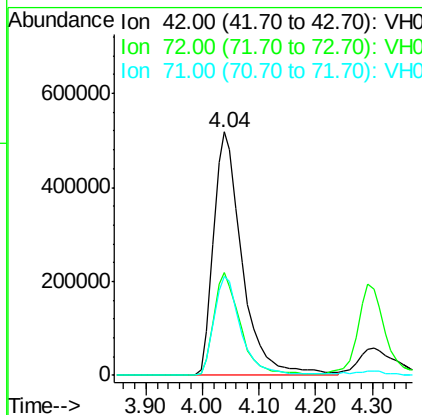
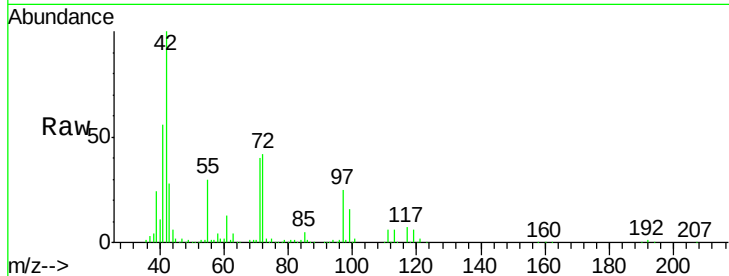
72 38.5 25.5 38.3#

71 38.4 25.4 38.0#

Manual Integrations
APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#32

1,1,1-Trichloroethane

Concen: 42.51 ug/l

RT: 4.06 min Scan# 345

Delta R.T. -0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

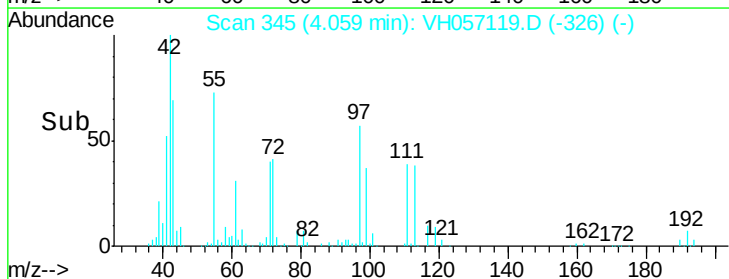
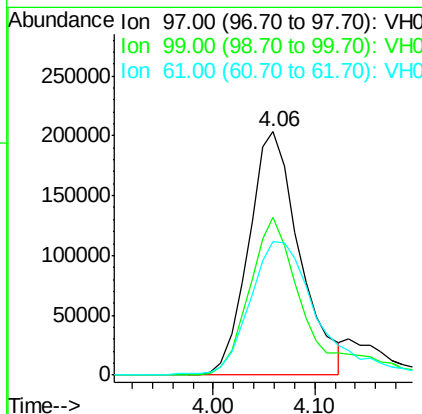
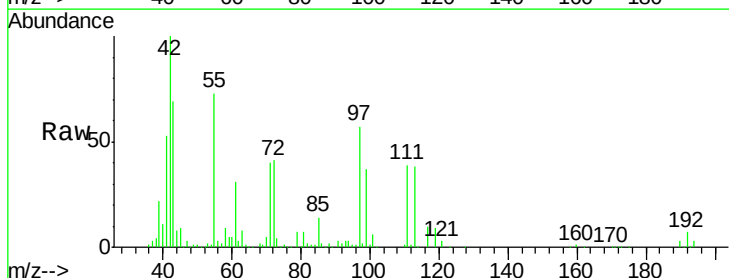
Tgt Ion: 97 Resp: 706868

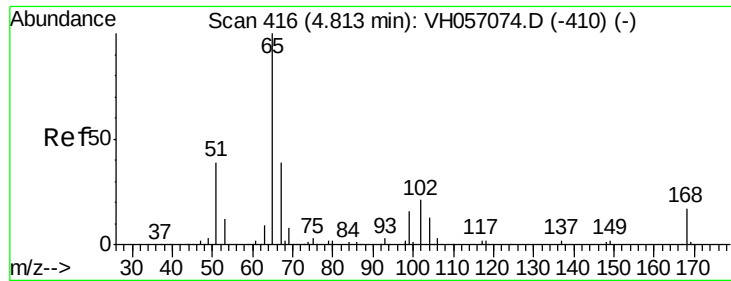
Ion Ratio Lower Upper

97 100

99 64.6 49.8 74.6

61 54.6 45.0 67.4





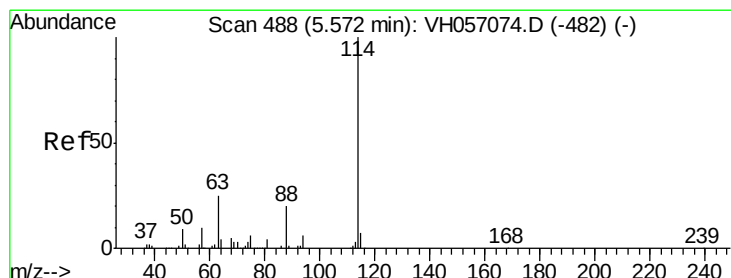
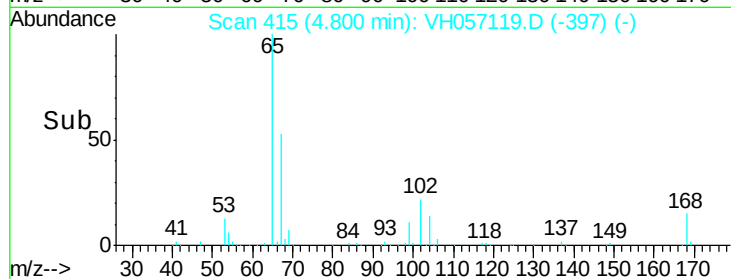
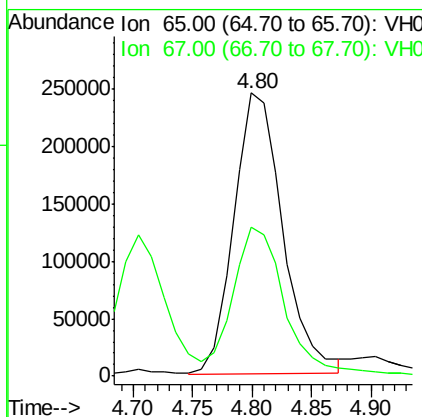
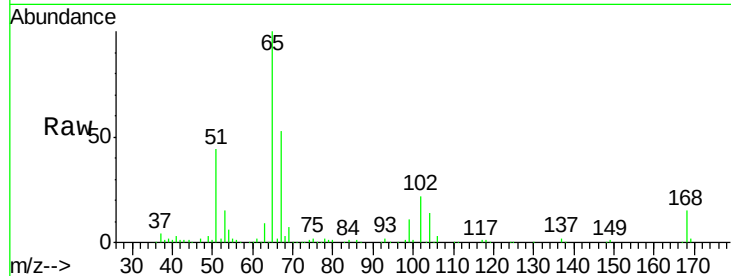
#33
 1,2-Dichloroethane-d4
 Concen: 45.16 ug/l
 RT: 4.80 min Scan# 415
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 65 Resp: 717878
 Ion Ratio Lower Upper
 65 100
 67 52.6 43.2 64.8

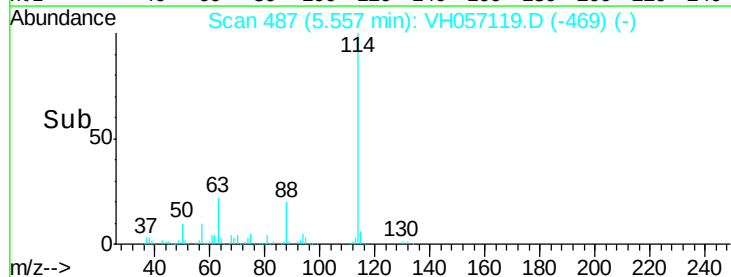
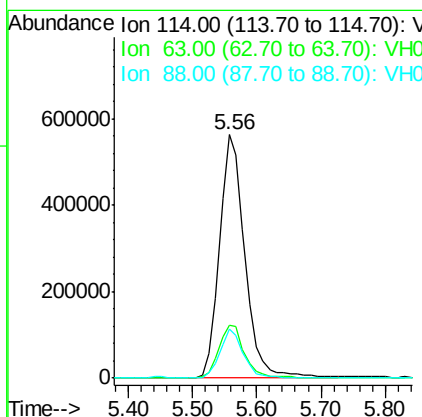
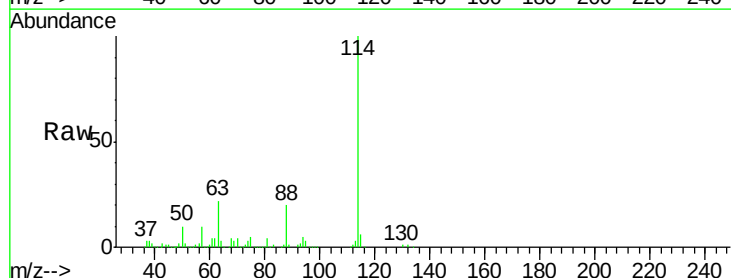
Manual Integrations
 APPROVED

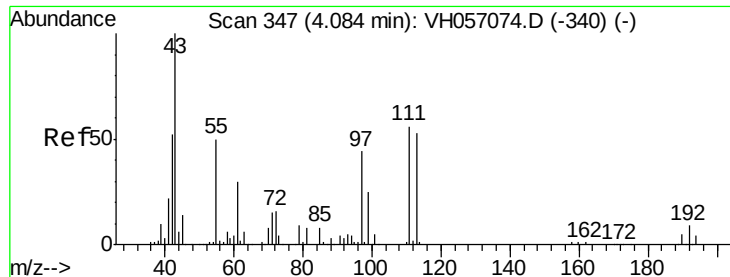
MMDadoda
 9/23/2015 11:46:56 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.56 min Scan# 487
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion: 114 Resp: 1563955
 Ion Ratio Lower Upper
 114 100
 63 21.8 19.0 28.4
 88 19.9 15.7 23.5





#35

Dibromofluoromethane

Concen: 51.60 ug/l

RT: 4.07 min Scan# 346

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

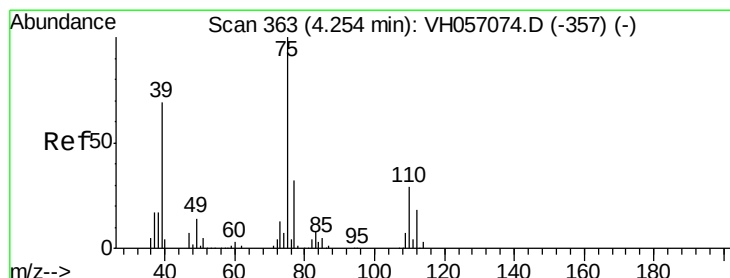
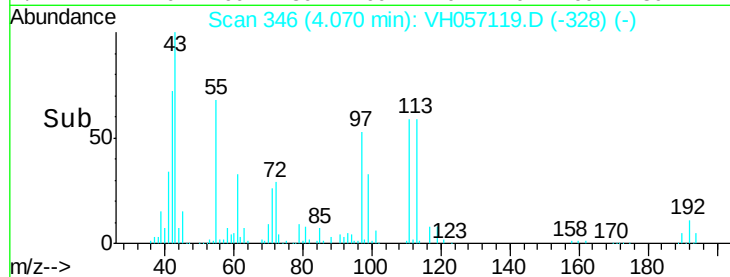
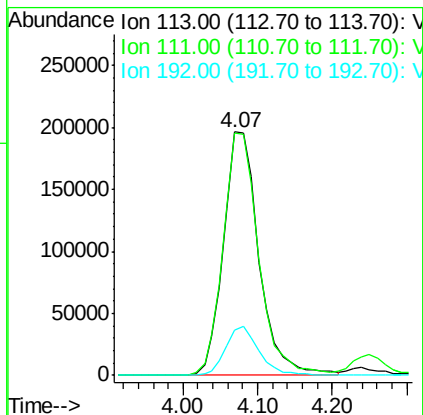
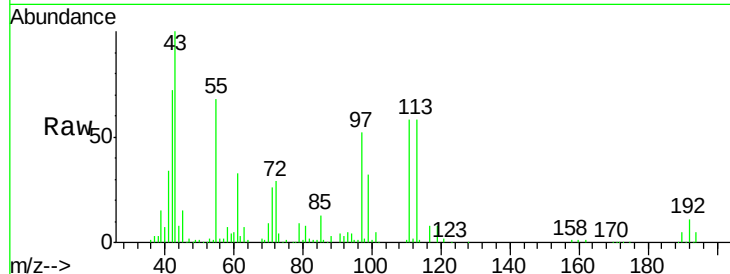
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	113	Resp:	642554
Ion Ratio	Lower	Upper	
113	100		
111	99.4	84.0	126.0
192	18.4	13.6	20.4

Manual Integrations
APPROVED

MMDadoda
9/23/2015 11:46:56 AM



#36

1,1-Dichloropropene

Concen: 48.90 ug/l

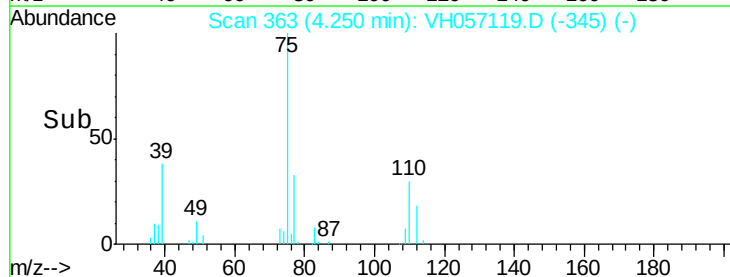
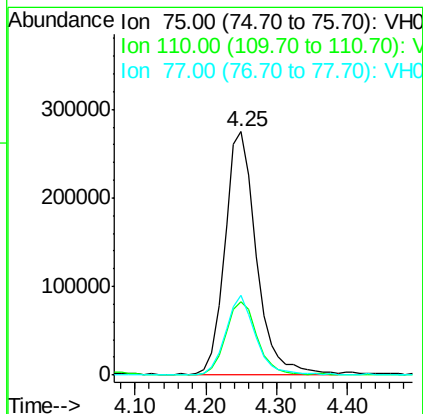
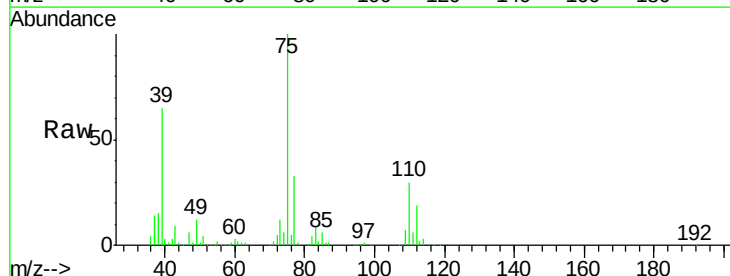
RT: 4.25 min Scan# 363

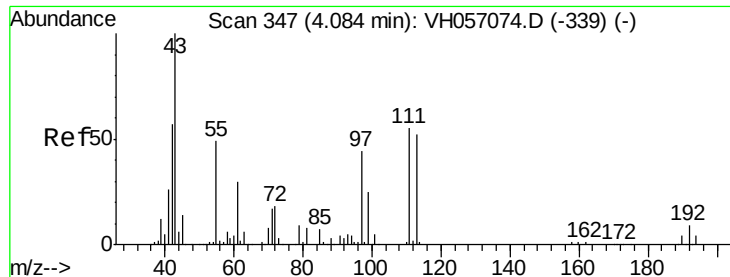
Delta R.T. -0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Tgt Ion:	75	Resp:	840329
Ion Ratio	Lower	Upper	
75	100		
110	30.3	13.7	41.1
77	32.9	24.0	36.0





#37

Ethyl acetate

Concen: 46.17 ug/l

RT: 4.08 min Scan# 347

Delta R.T. -0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 1489453

Ion Ratio Lower Upper

43 100

61 0.0 23.9 35.9#

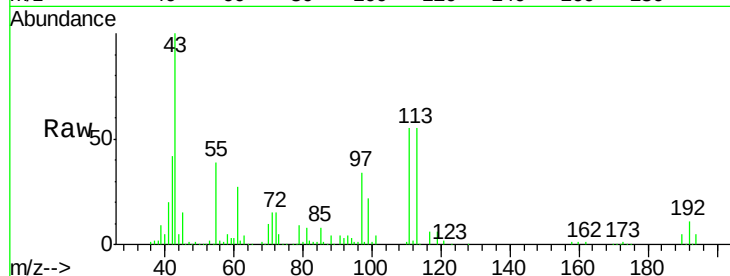
70 7.9 5.4 8.0

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM

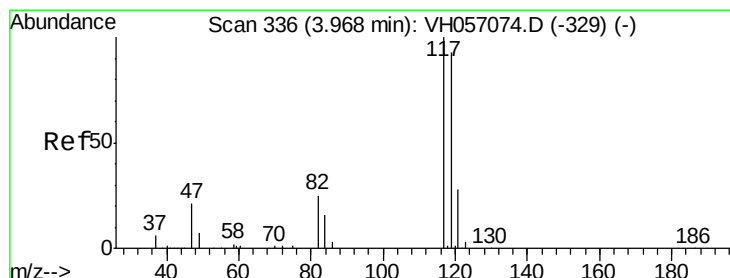
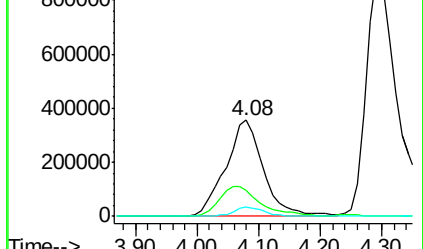
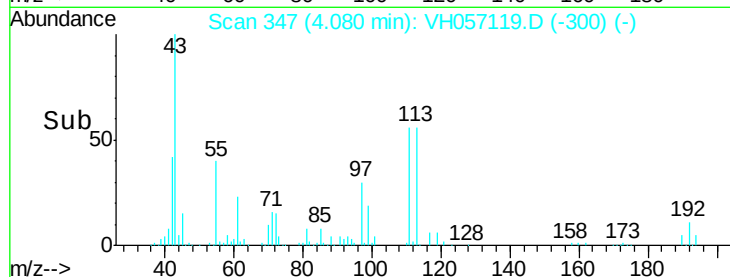


Abundance Ion 43.05 (42.75 to 43.75): VH057119.D (-300) (-)

Ion 61.00 (60.70 to 61.70): VH057119.D (-300) (-)

Ion 70.05 (69.75 to 70.75): VH057119.D (-300) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 46.67 ug/l

RT: 3.95 min Scan# 335

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

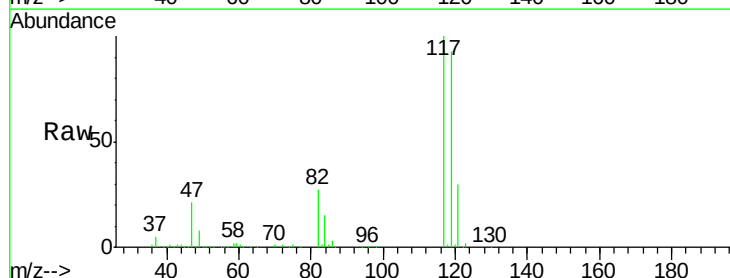
Tgt Ion: 117 Resp: 624346

Ion Ratio Lower Upper

117 100

119 93.2 78.7 118.1

121 30.2 25.9 38.9

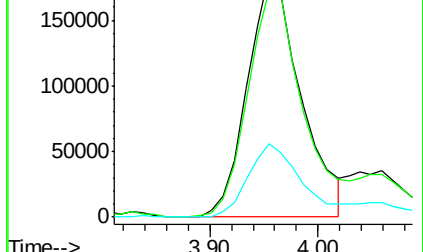
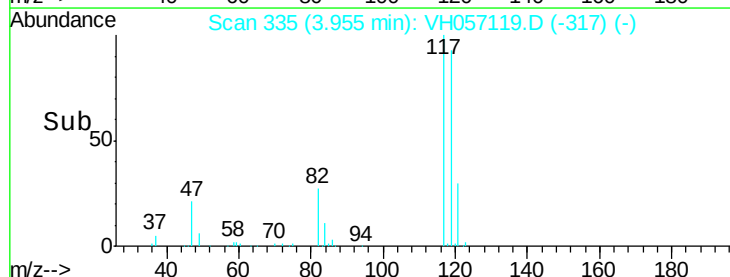


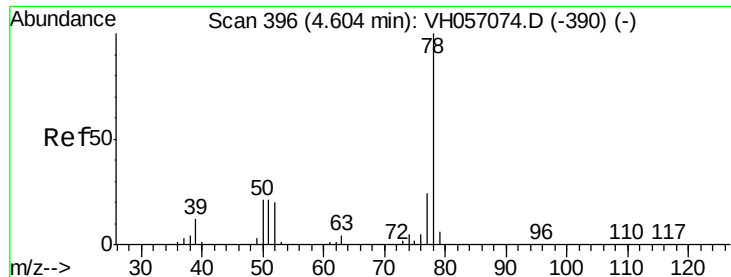
Abundance Ion 117.00 (116.70 to 117.70): VH057119.D (-317) (-)

Ion 119.00 (118.70 to 119.70): VH057119.D (-317) (-)

Ion 121.00 (120.70 to 121.70): VH057119.D (-317) (-)

Time-->





#39

Benzene

Concen: 50.77 ug/l

RT: 4.60 min Scan# 396

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 78 Resp: 2077539

Ion Ratio Lower Upper

78 100

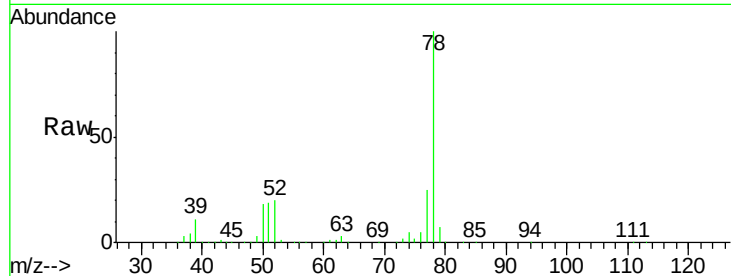
77 25.0 18.5 27.7

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 78.10 (77.80 to 78.80): VH0

Ion 77.00 (76.70 to 77.70): VH0

800000

600000

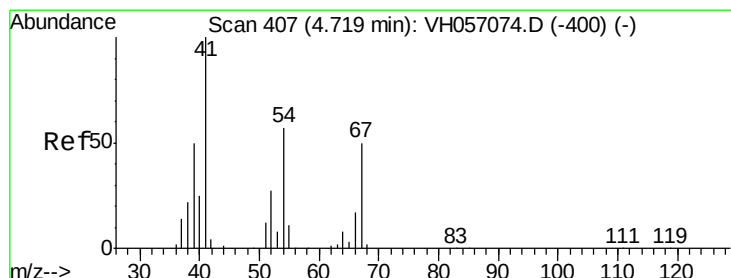
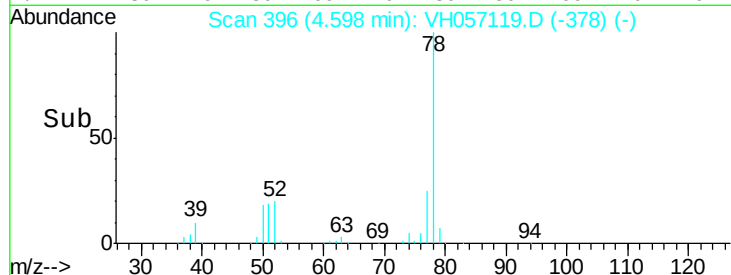
400000

200000

0

4.50 4.60 4.70 4.80

Time-->



#40

Methacrylonitrile

Concen: 46.91 ug/l

RT: 4.70 min Scan# 406

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Tgt Ion: 41 Resp: 669720

Ion Ratio Lower Upper

41 100

39 56.0 25.1 75.2

67 54.5 22.5 67.5

52 39.9 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

300000

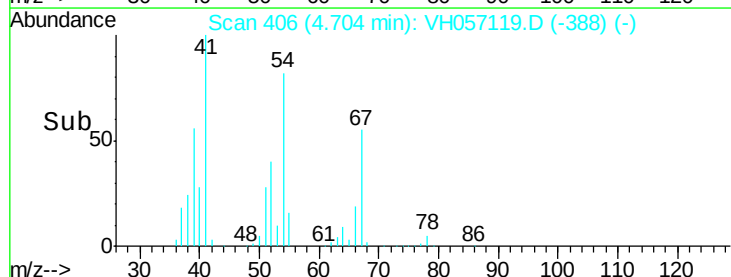
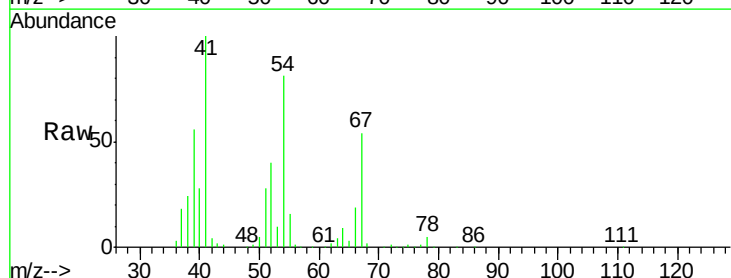
200000

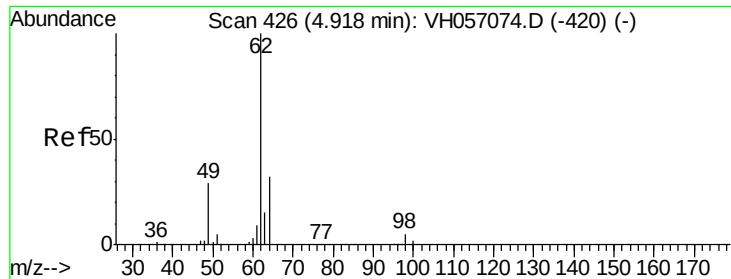
100000

0

4.60 4.70 4.80 4.90

Time-->





#41

1,2-Dichloroethane

Concen: 47.21 ug/l

RT: 4.90 min Scan# 425

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 62 Resp: 852612

Ion Ratio Lower Upper

62 100

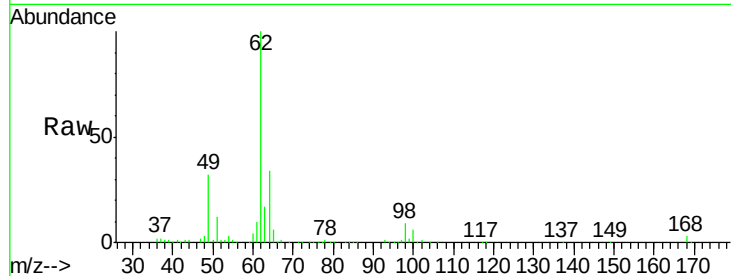
98 9.5 7.3 10.9

Manual Integrations

APPROVED

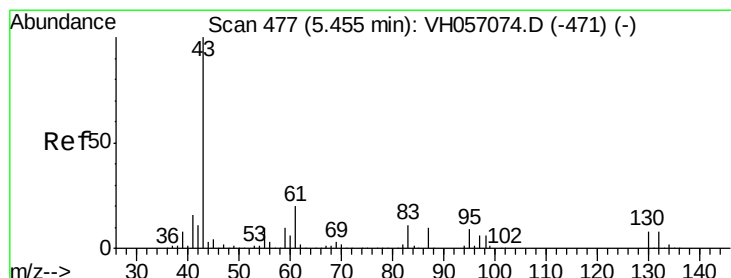
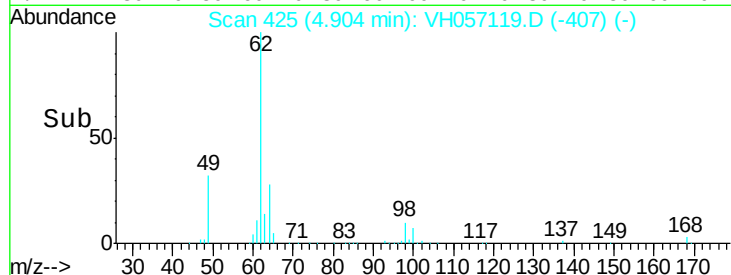
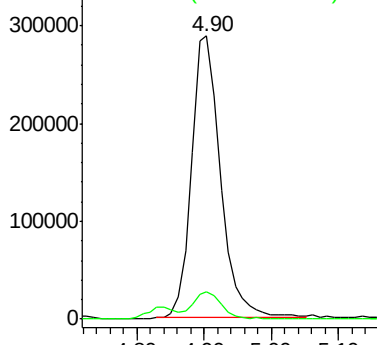
MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 62.00 (61.70 to 62.70): VH0

Ion 98.00 (97.70 to 98.70): VH0



#42

Isopropyl Acetate

Concen: 46.06 ug/l

RT: 5.45 min Scan# 477

Delta R.T. -0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

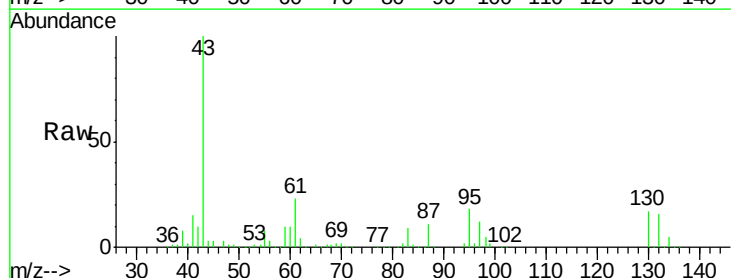
Tgt Ion: 43 Resp: 1939947

Ion Ratio Lower Upper

43 100

61 23.0 15.8 23.6

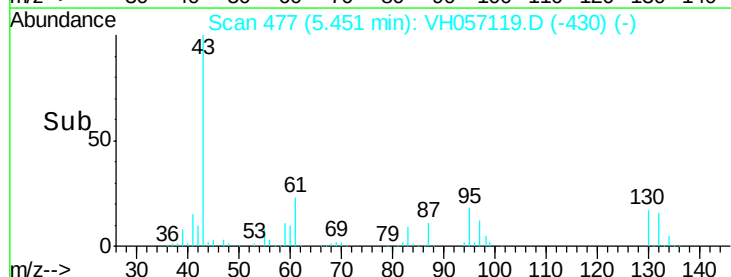
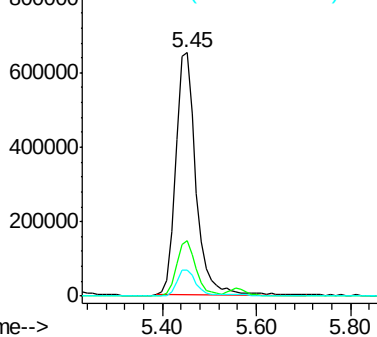
87 10.7 7.0 10.6#

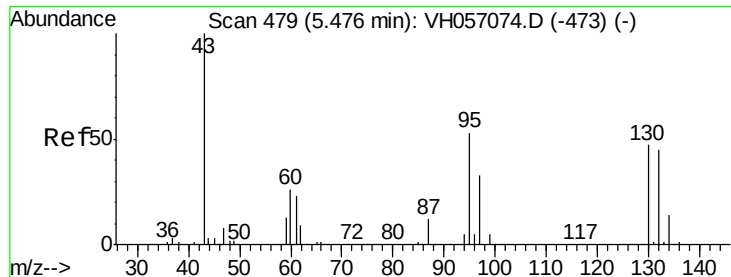


Abundance Ion 43.05 (42.75 to 43.75): VH0

Ion 61.00 (60.70 to 61.70): VH0

Ion 87.00 (86.70 to 87.70): VH0





#43

Trichloroethene

Concen: 55.08 ug/l

RT: 5.47 min Scan# 479

Delta R.T. -0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion:130 Resp: 572785

Ion Ratio Lower Upper

130 100

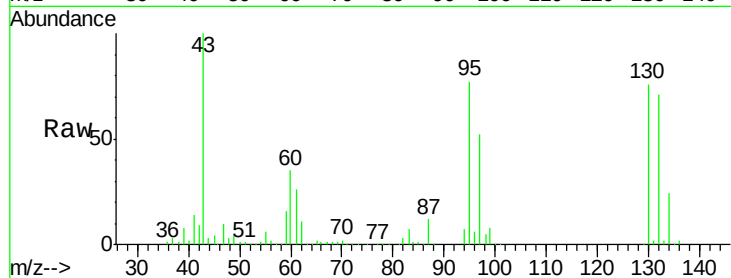
95 101.7 84.0 126.0

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VH0

5.47

250000

200000

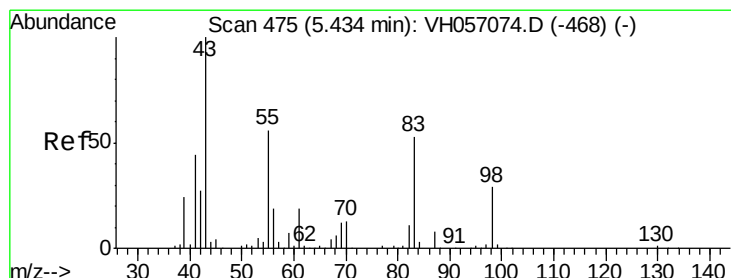
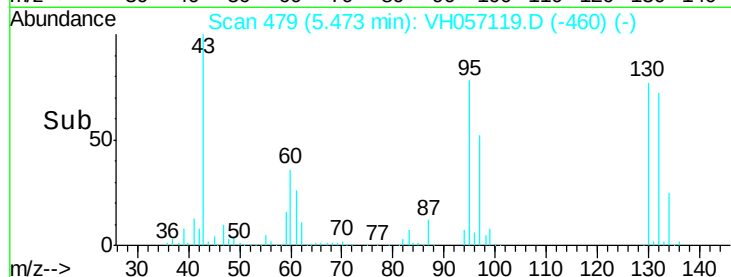
150000

100000

50000

0

Time-->



#44

Methylcyclohexane

Concen: 48.04 ug/l

RT: 5.43 min Scan# 475

Delta R.T. -0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

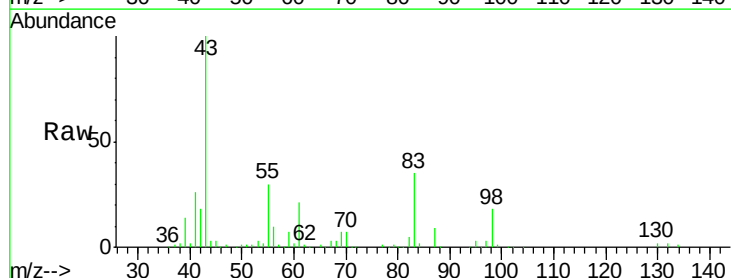
Tgt Ion: 83 Resp: 475840

Ion Ratio Lower Upper

83 100

55 87.1 0.0 207.2

98 51.6 0.0 108.4



Abundance Ion 83.00 (82.70 to 83.70): VH0

Ion 55.00 (54.70 to 55.70): VH0

Ion 98.00 (97.70 to 98.70): VH0

5.43

200000

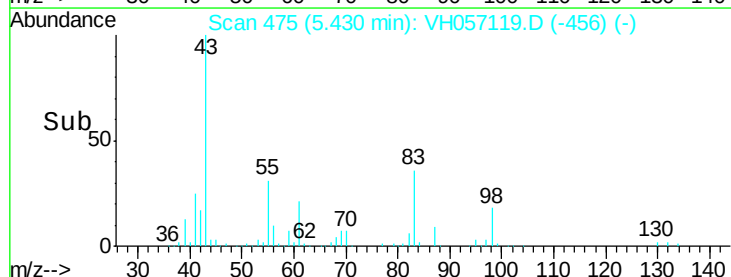
150000

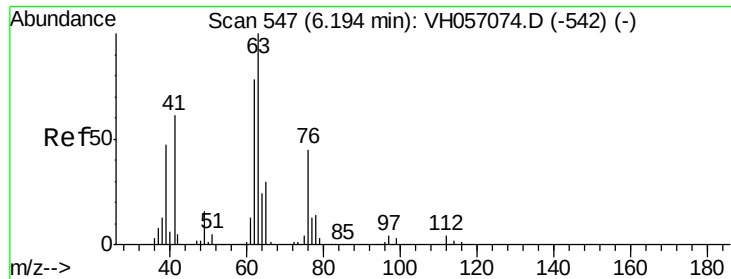
100000

50000

0

Time-->





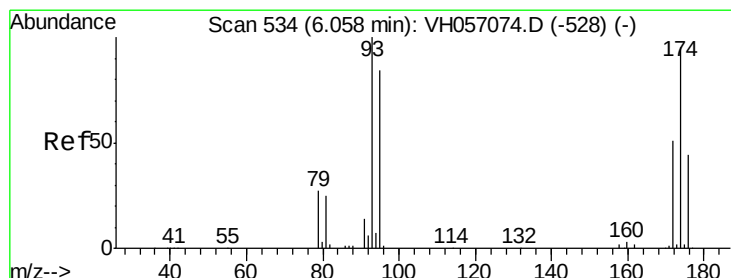
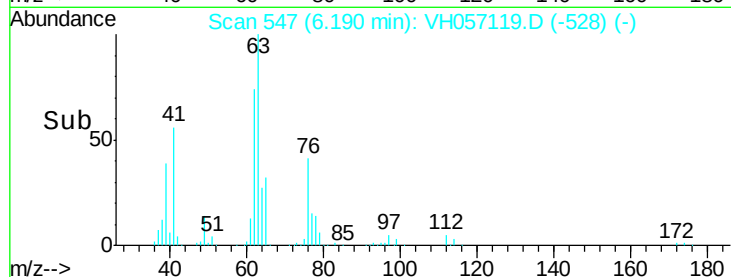
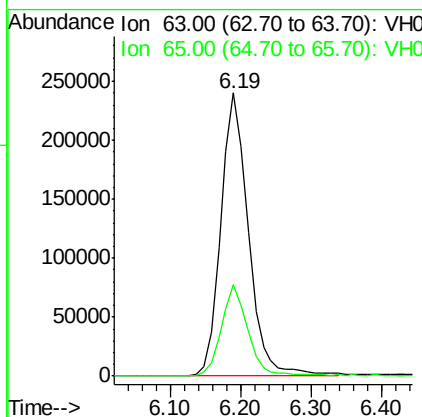
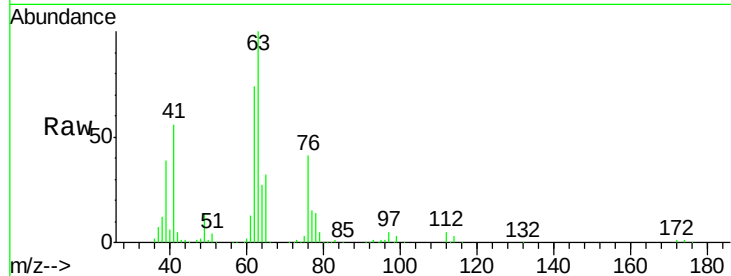
#45
 1,2-Dichloropropane
 Concen: 50.07 ug/l
 RT: 6.19 min Scan# 547
 Delta R.T. -0.00 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleID :
 VSTDCCC050EC

Tgt Ion: 63 Resp: 649603
 Ion Ratio Lower Upper
 63 100
 65 32.4 23.8 35.8

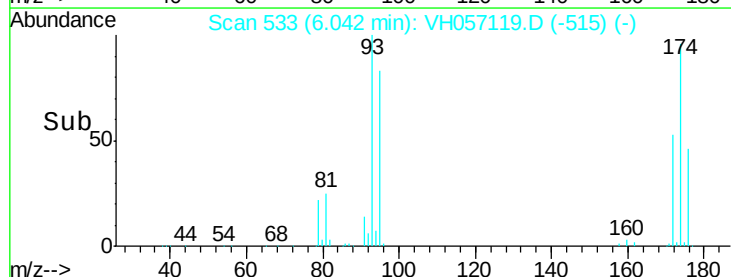
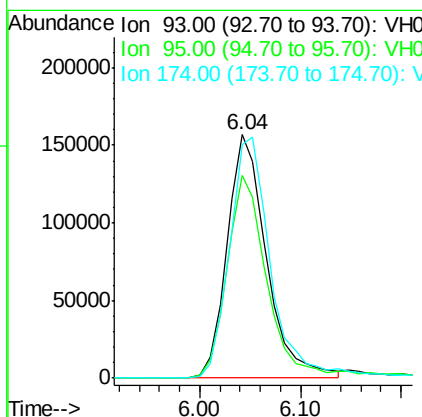
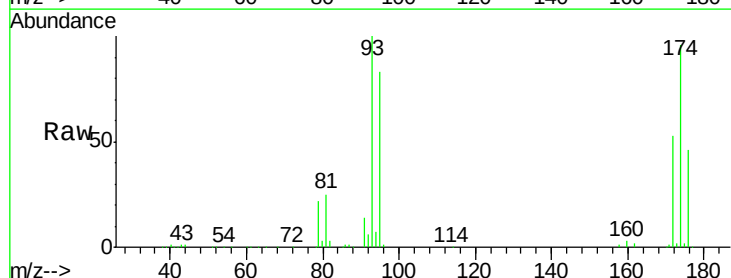
Manual Integrations
 APPROVED

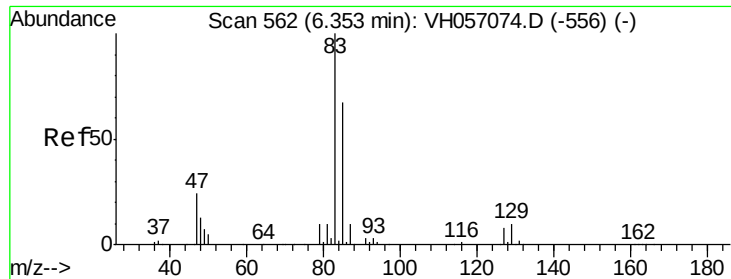
MMDadoda
 9/23/2015 11:46:56 AM



#46
 Dibromomethane
 Concen: 50.43 ug/l
 RT: 6.04 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion: 93 Resp: 425443
 Ion Ratio Lower Upper
 93 100
 95 83.2 69.5 104.3
 174 95.8 75.8 113.6





#47

Bromodichloromethane

Concen: 49.81 ug/l

RT: 6.34 min Scan# 561

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

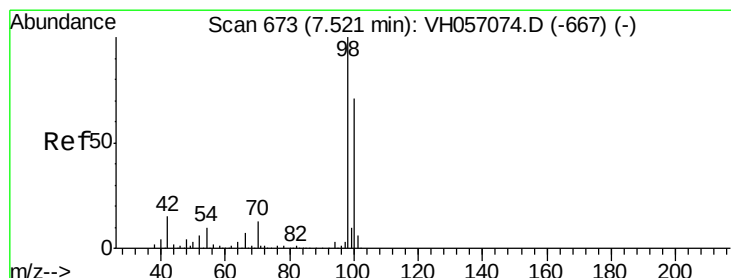
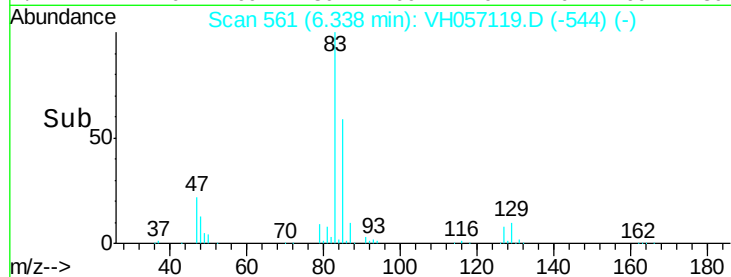
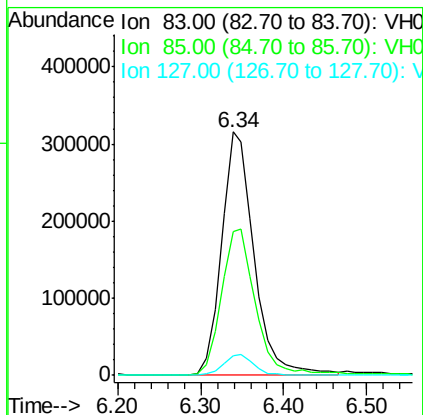
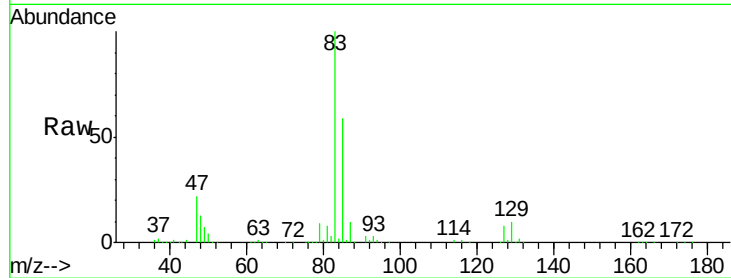
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	83	Resp:	860751
Ion	Ratio	Lower	Upper
83	100		
85	59.3	52.6	78.8
127	8.0	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
9/23/2015 11:46:56 AM



#48

Toluene-d8

Concen: 51.80 ug/l

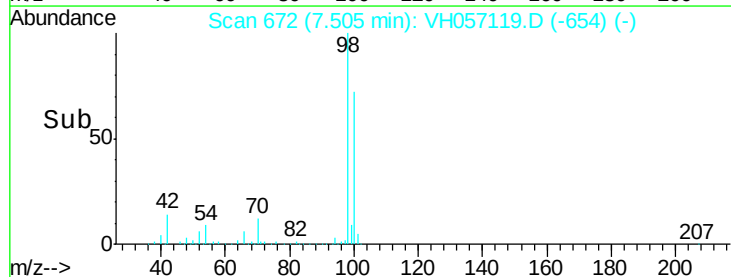
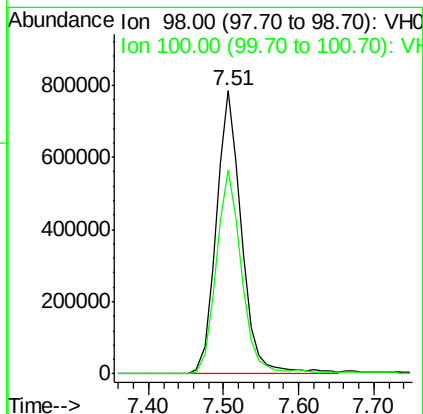
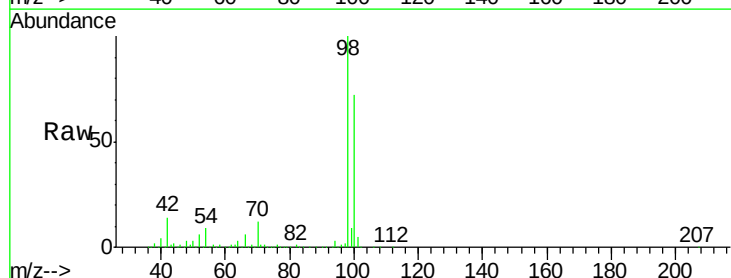
RT: 7.51 min Scan# 672

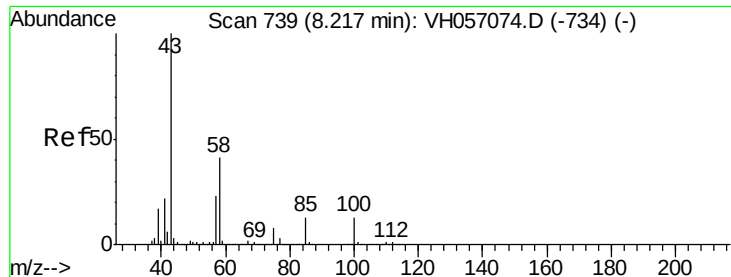
Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Tgt Ion:	98	Resp:	1854750
Ion	Ratio	Lower	Upper
98	100		
100	72.3	56.7	85.1





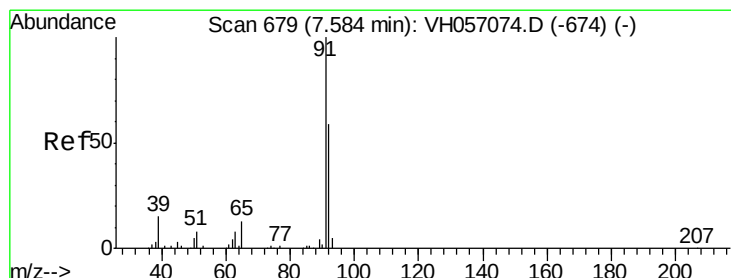
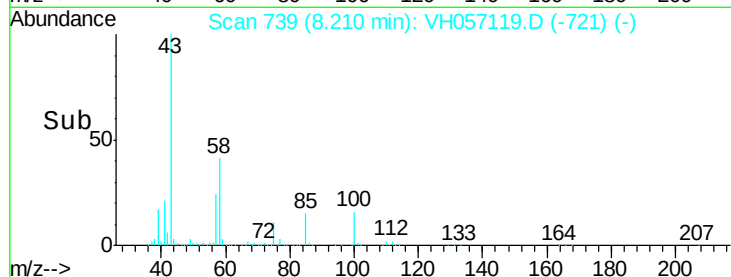
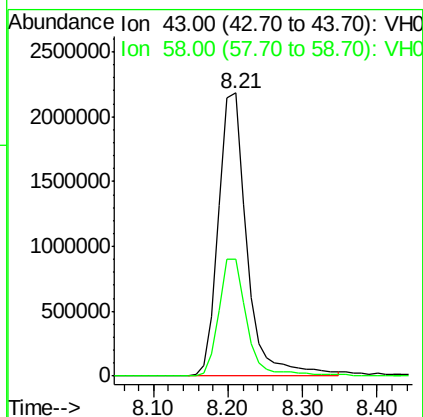
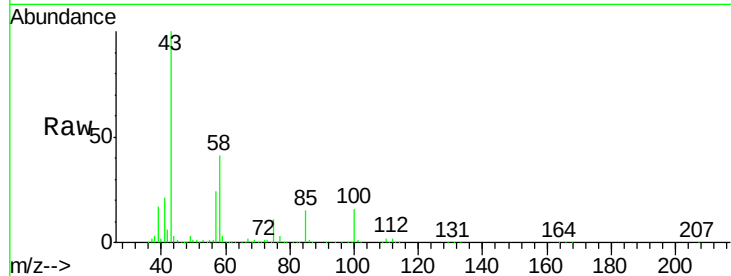
#49
 4-Methyl-2-Pentanone
 Concen: 223.64 ug/l
 RT: 8.21 min Scan# 739
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 43 Resp: 5706155
 Ion Ratio Lower Upper
 43 100
 58 41.1 20.0 60.0

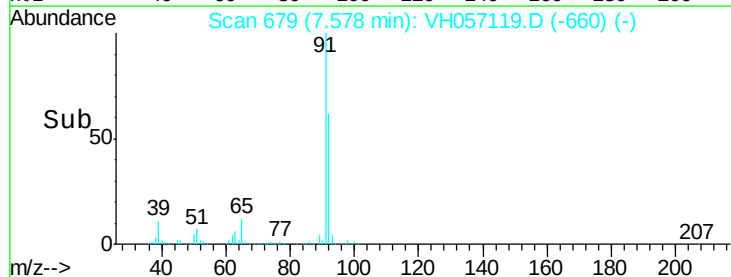
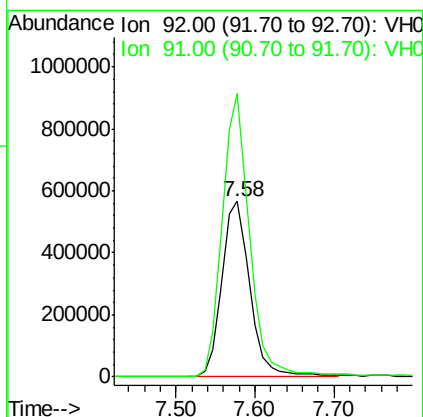
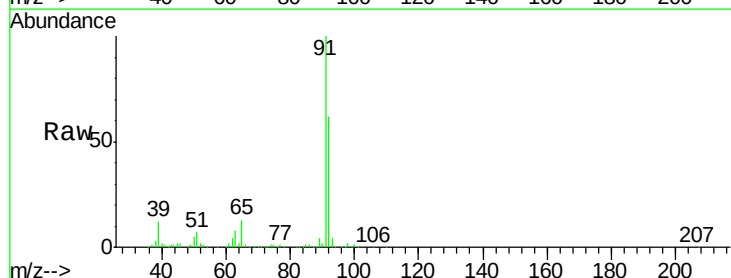
Manual Integrations
 APPROVED

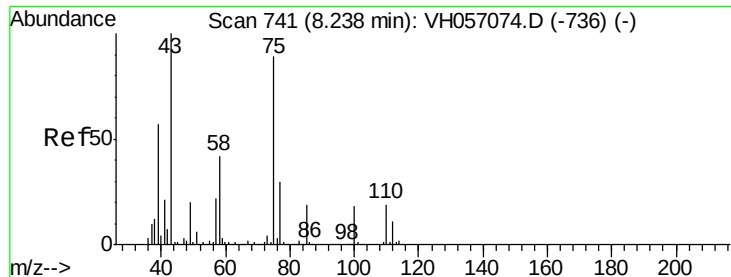
MMDadoda
 9/23/2015 11:46:56 AM



#50
 Toluene
 Concen: 52.98 ug/l
 RT: 7.58 min Scan# 679
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion: 92 Resp: 1388075
 Ion Ratio Lower Upper
 92 100
 91 161.1 125.8 188.6





#51

t-1,3-Dichloropropene

Concen: 47.78 ug/l

RT: 8.22 min Scan# 740

Delta R.T. -0.02 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 75 Resp: 946704

Ion Ratio Lower Upper

75 100

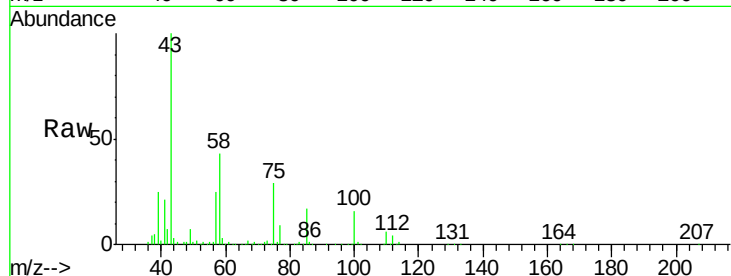
77 32.4 26.2 39.2

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 75.00 (74.70 to 75.70): VH0

Ion 77.00 (76.70 to 77.70): VH0

8.22

400000

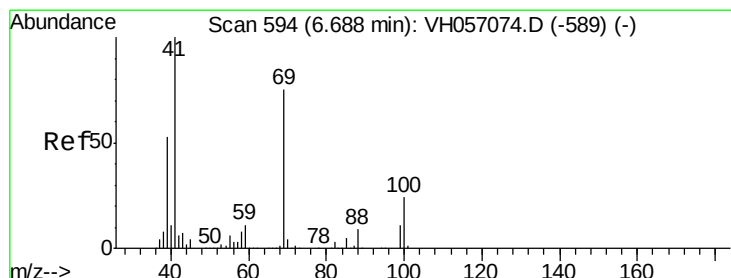
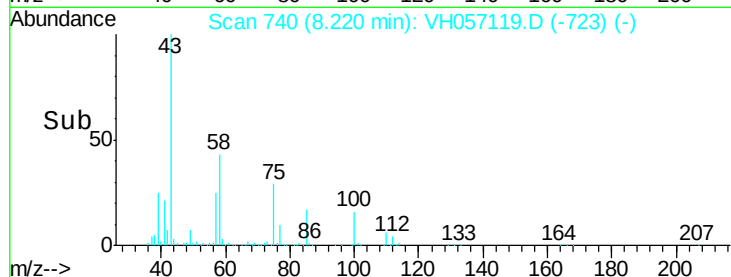
300000

200000

100000

0

Time-->



#52

Methyl Methacrylate

Concen: 53.29 ug/l

RT: 6.67 min Scan# 593

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

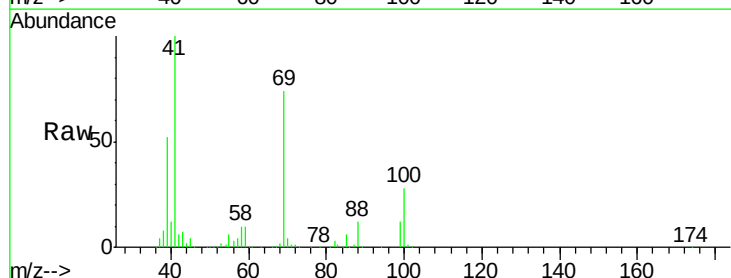
Tgt Ion: 69 Resp: 684136

Ion Ratio Lower Upper

69 100

41 135.5 70.0 209.8

39 70.5 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

6.67

400000

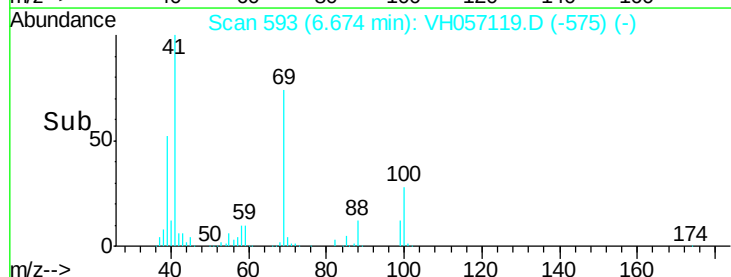
300000

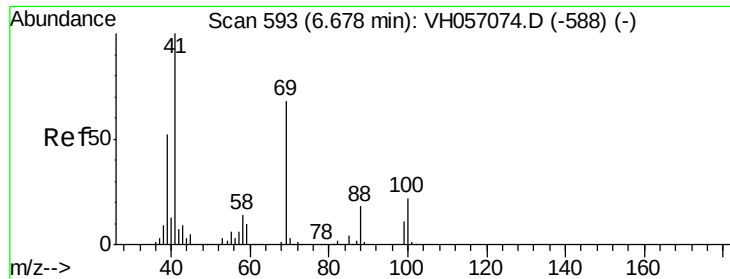
200000

100000

0

Time-->





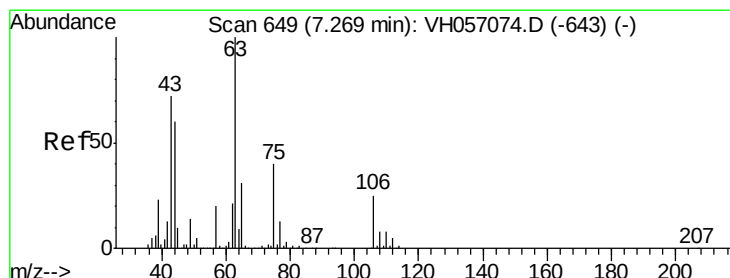
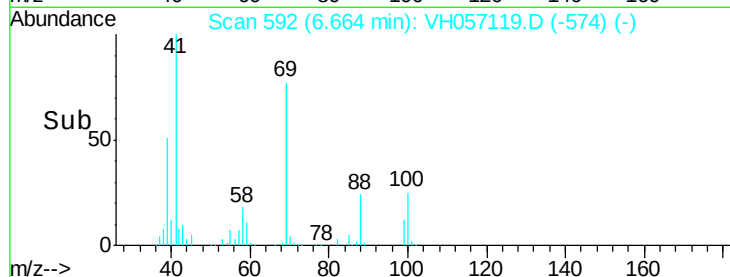
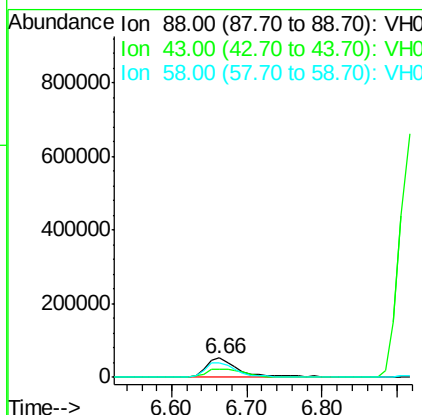
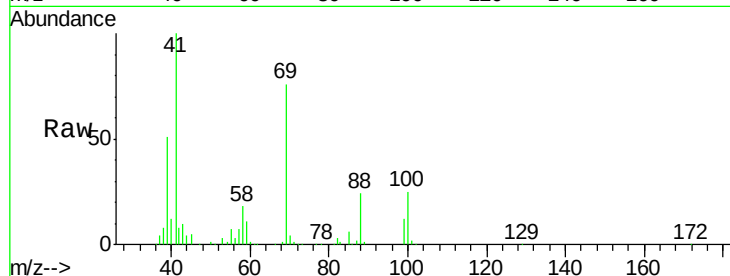
#53
1,4-Dioxane
Concen: 1056.88 ug/l
RT: 6.66 min Scan# 592
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	159142		
43	42.7	39.6	59.4	
58	76.8	61.4	92.2	

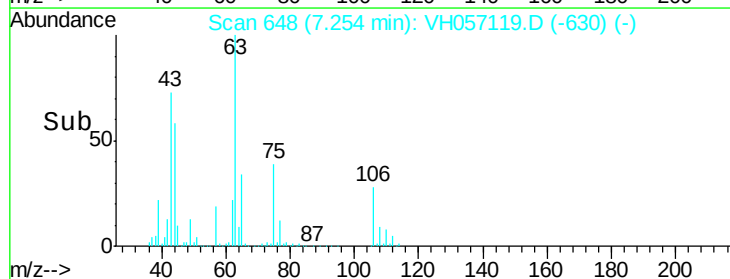
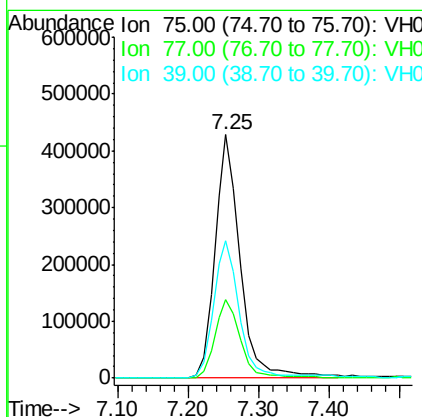
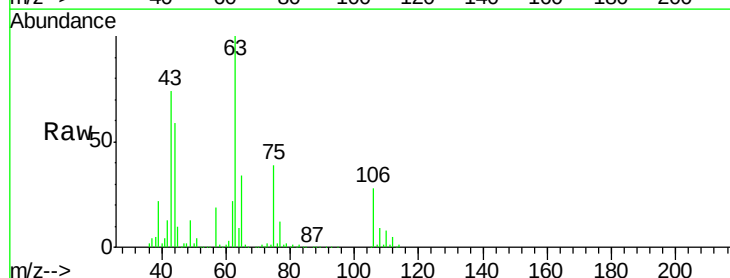
Manual Integrations
APPROVED

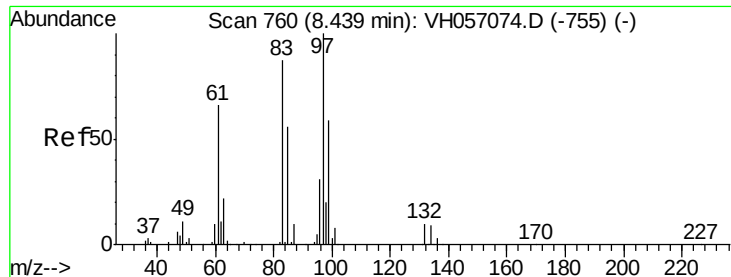
MMDadoda
9/23/2015 11:46:56 AM



#54
cis-1,3-Dichloropropene
Concen: 50.54 ug/l
RT: 7.25 min Scan# 648
Delta R.T. -0.02 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1063339		
77	32.0	25.2	37.8	
39	56.5	50.7	76.1	





#55

1,1,2-Trichloroethane

Concen: 51.18 ug/l

RT: 8.43 min Scan# 760

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

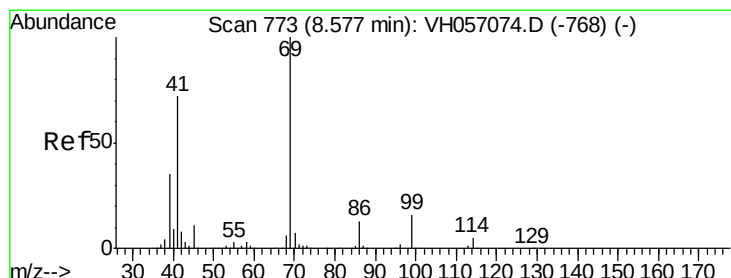
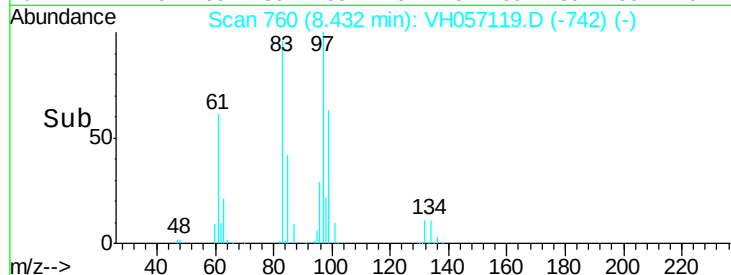
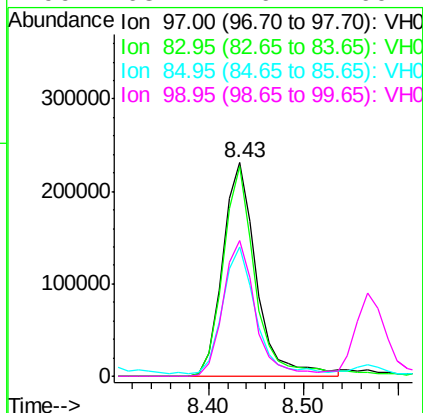
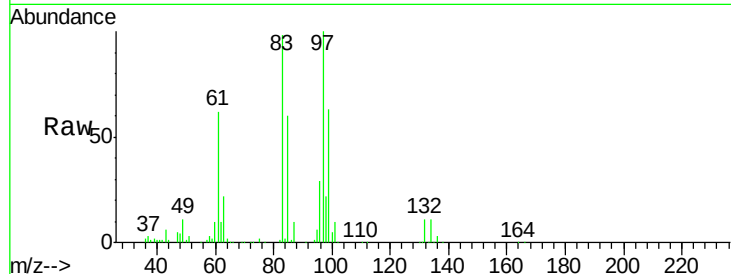
ClientSampleId :

VSTDCCC050EC

Tgt Ion:	97	Resp:	569304
Ion	Ratio	Lower	Upper
97	100		
83	98.4	72.7	109.1
85	60.4	45.5	68.3
99	63.4	46.2	69.2

Manual Integrations
APPROVED

MMDadoda
9/23/2015 11:46:56 AM



#56

Ethyl Methacrylate

Concen: 51.97 ug/l

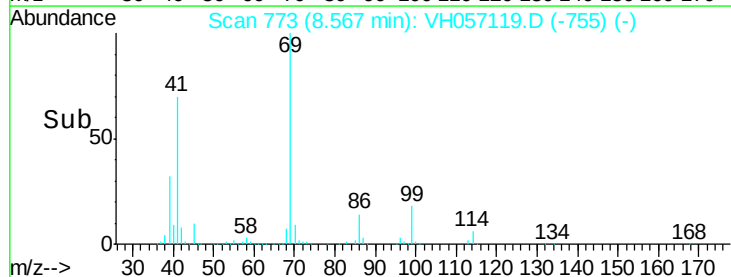
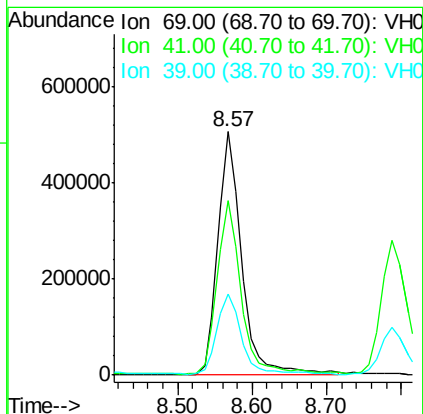
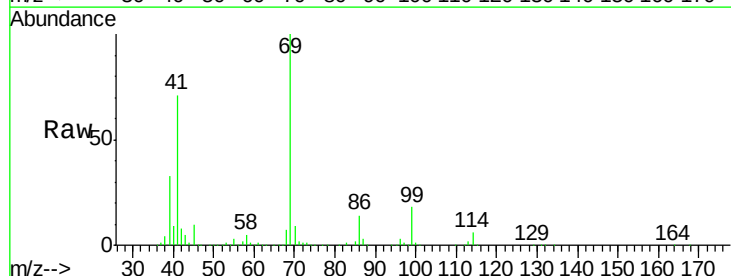
RT: 8.57 min Scan# 773

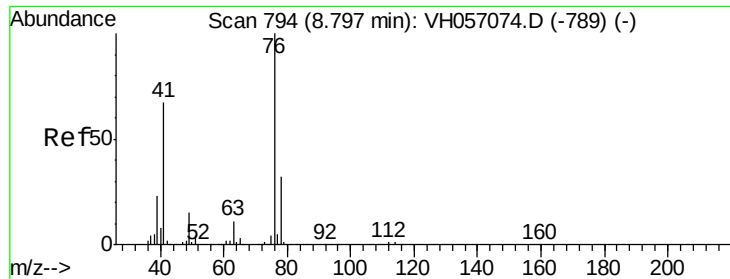
Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Tgt Ion:	69	Resp:	1141566
Ion	Ratio	Lower	Upper
69	100		
41	71.5	39.1	117.3
39	33.2	19.2	57.6





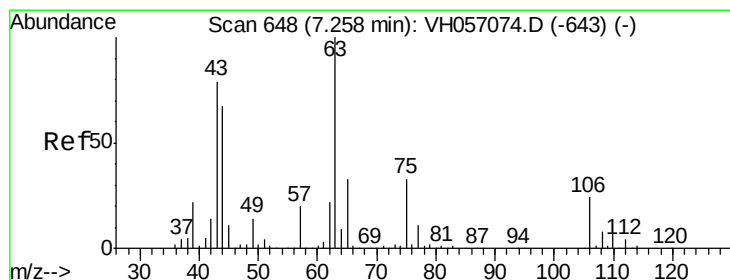
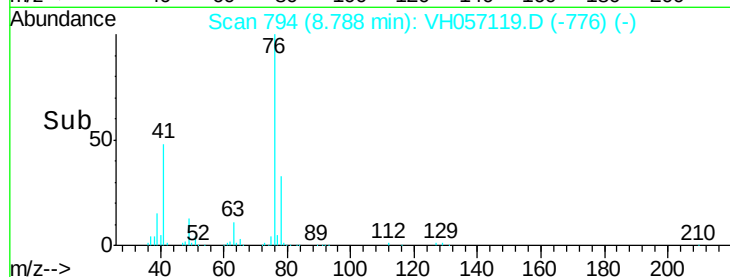
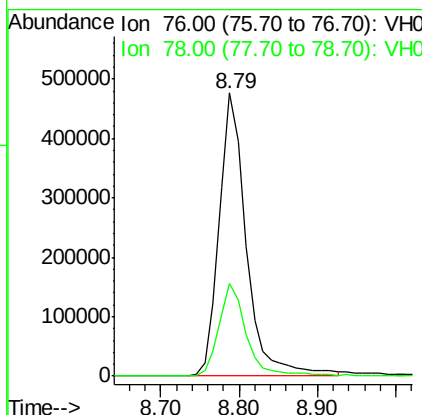
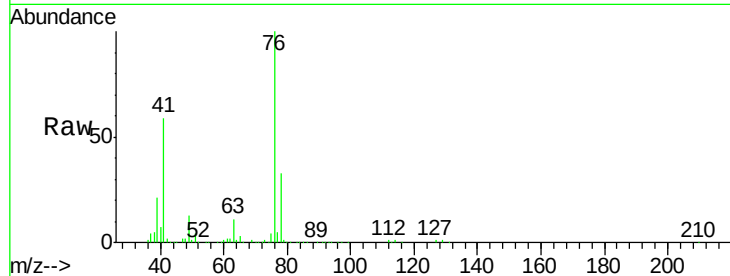
#57
 1,3-Dichloropropane
 Concen: 50.96 ug/l
 RT: 8.79 min Scan# 794
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion: 76 Resp: 1152774
 Ion Ratio Lower Upper
 76 100
 78 32.6 25.7 38.5

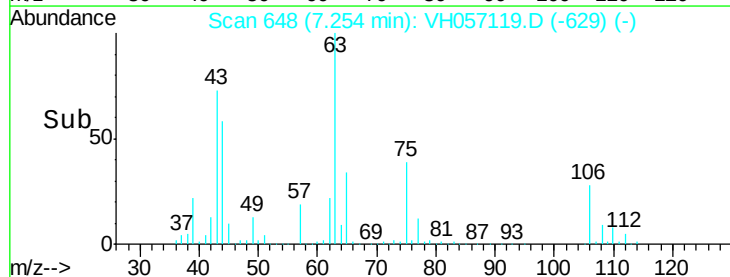
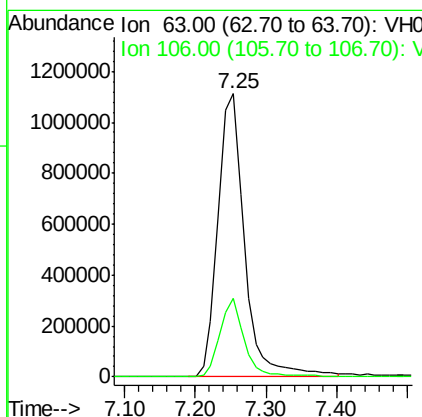
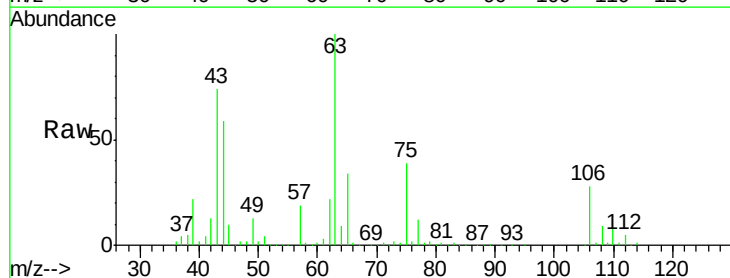
Manual Integrations
 APPROVED

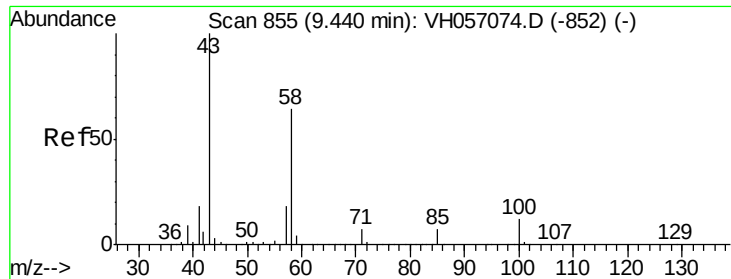
MMDadoda
 9/23/2015 11:46:56 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 265.46 ug/l
 RT: 7.25 min Scan# 648
 Delta R.T. -0.00 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion: 63 Resp: 2883230
 Ion Ratio Lower Upper
 63 100
 106 27.5 18.0 27.0#





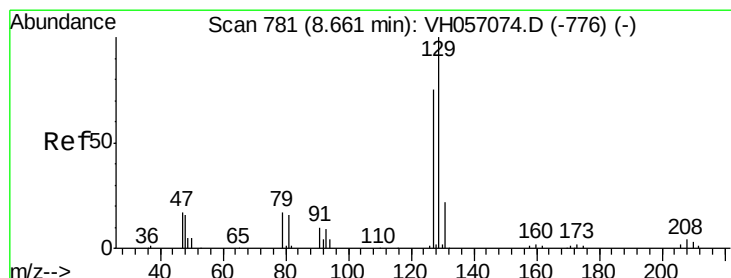
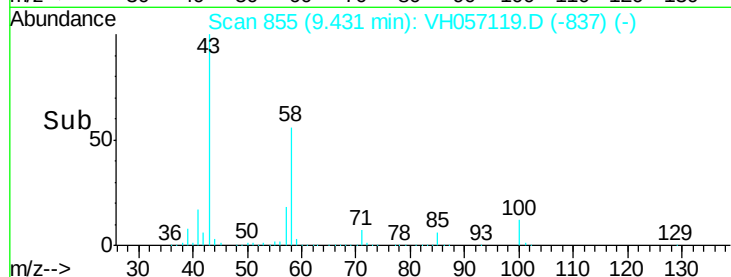
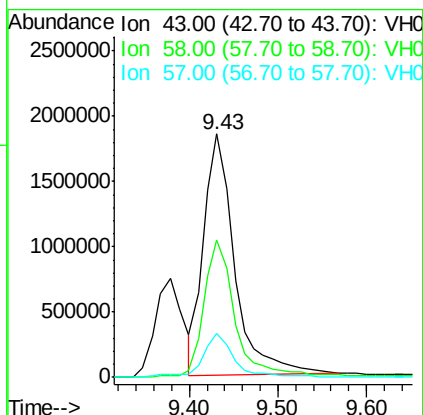
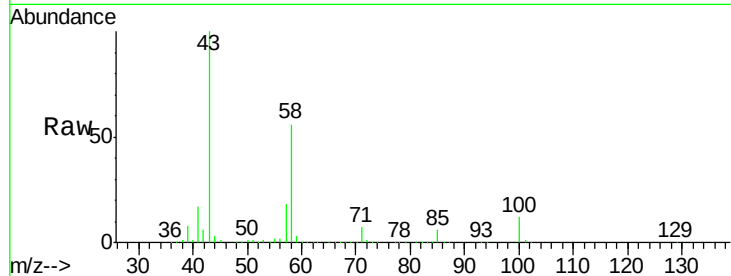
#59
2-Hexanone
Concen: 223.22 ug/l
RT: 9.43 min Scan# 855
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 4450103
Ion Ratio Lower Upper
43 100
58 56.5 27.1 81.2
57 18.0 8.1 24.3

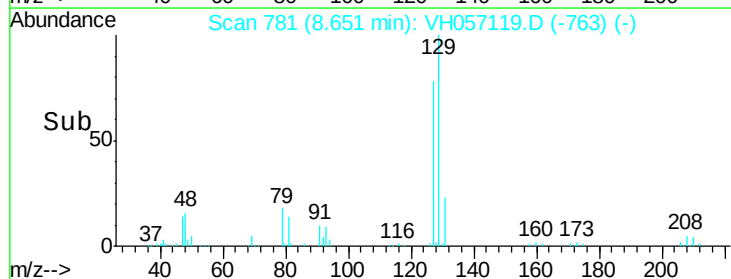
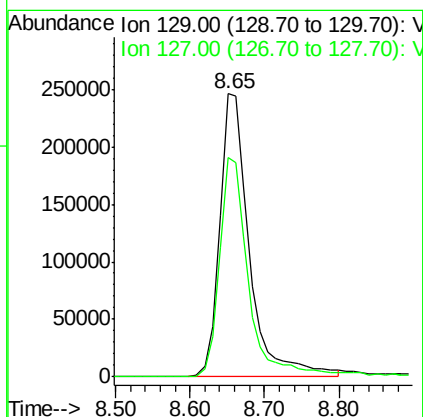
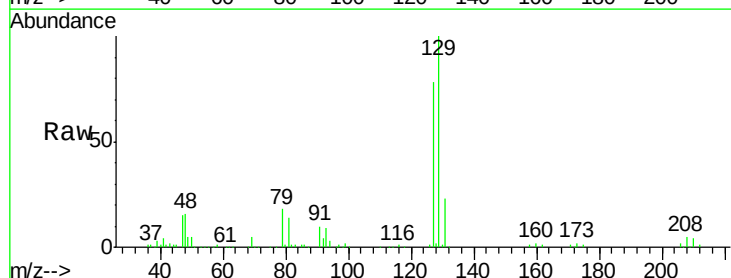
Manual Integrations
APPROVED

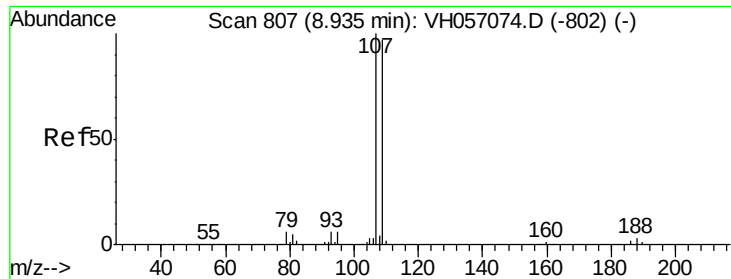
MMDadoda
9/23/2015 11:46:56 AM



#60
Dibromochloromethane
Concen: 53.55 ug/l
RT: 8.65 min Scan# 781
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion: 129 Resp: 675270
Ion Ratio Lower Upper
129 100
127 77.7 38.5 115.3





#61

1,2-Dibromoethane

Concen: 54.89 ug/l

RT: 8.93 min Scan# 807

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 107 Resp: 702549

Ion Ratio Lower Upper

107 100

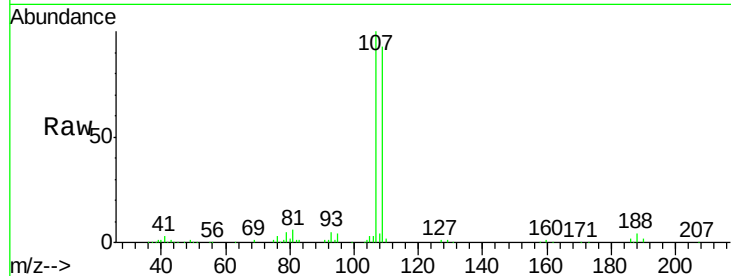
109 93.2 77.7 116.5

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.93

250000

200000

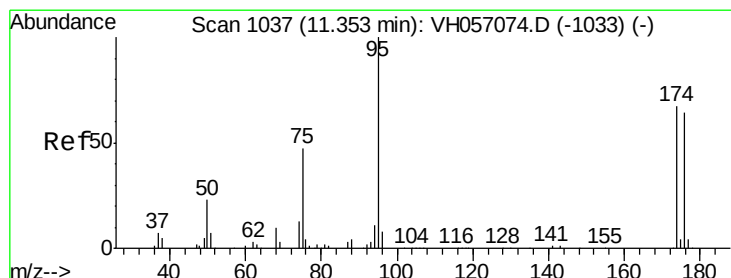
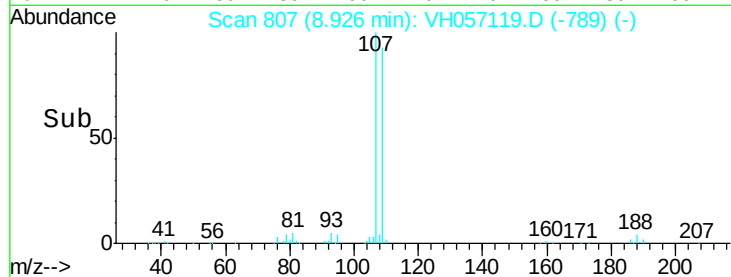
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.95 ug/l

RT: 11.35 min Scan# 1037

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

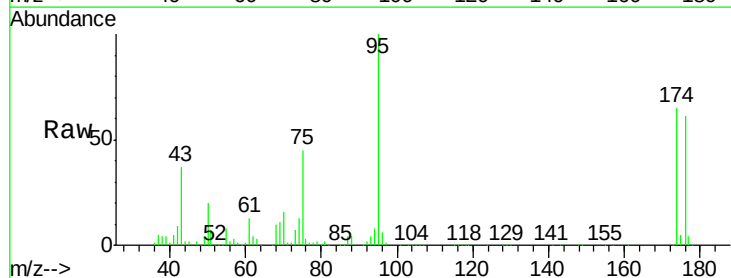
Tgt Ion: 95 Resp: 615252

Ion Ratio Lower Upper

95 100

174 64.8 58.4 87.6

176 61.1 54.3 81.5



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.35

400000

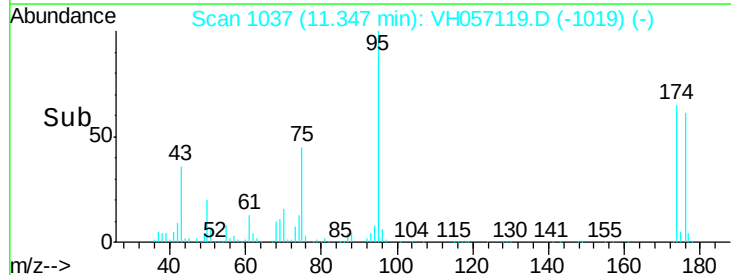
300000

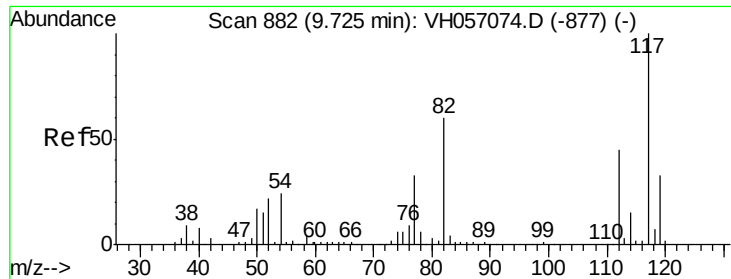
200000

100000

0

Time-->





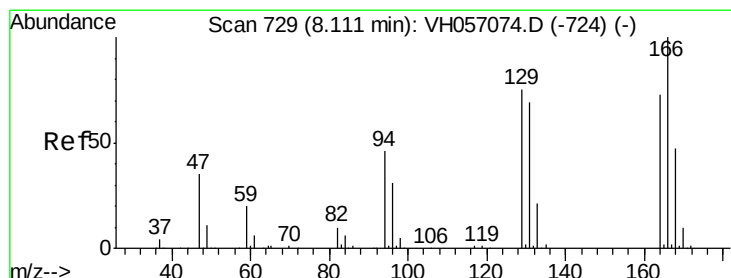
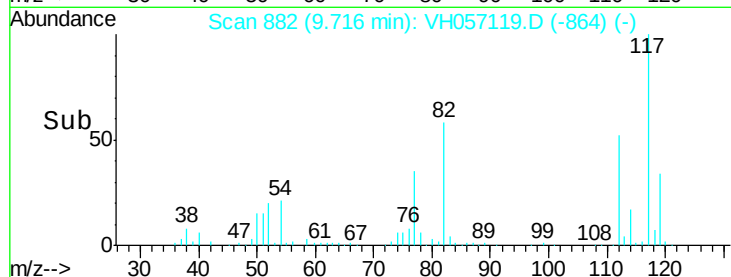
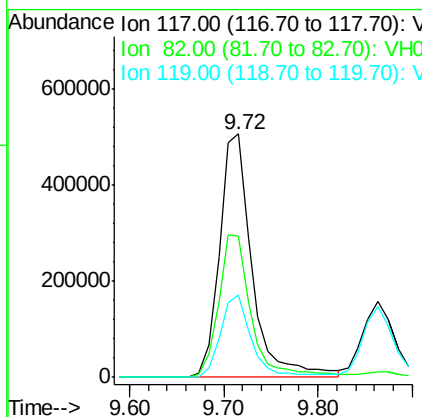
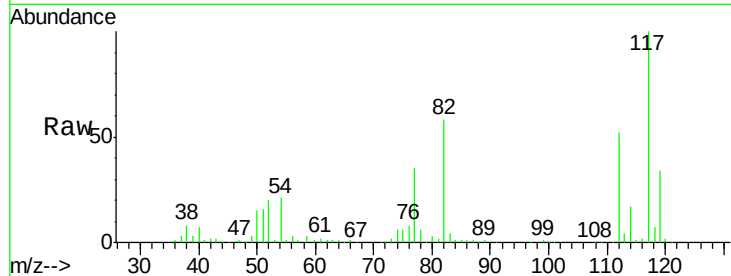
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.72 min Scan# 882
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 1220012
Ion Ratio Lower Upper
117 100
82 58.0 51.0 76.6
119 33.7 26.7 40.1

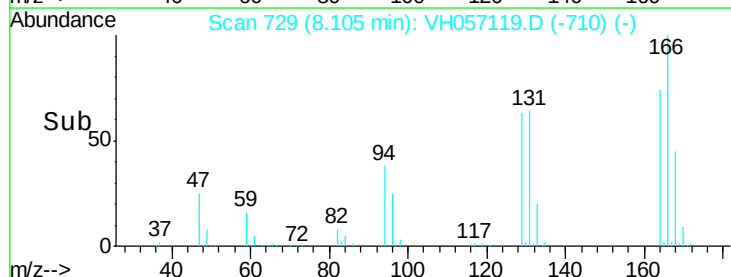
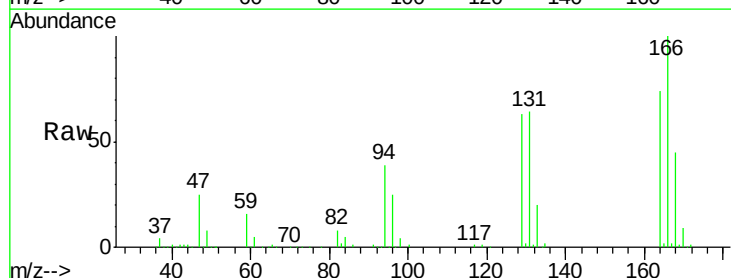
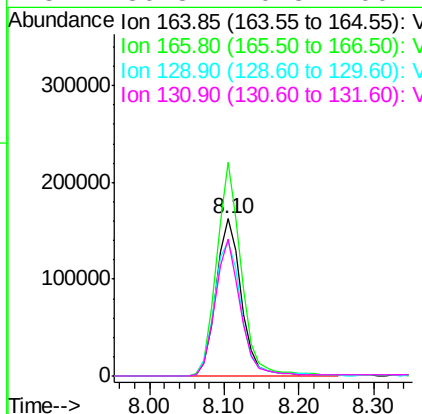
Manual Integrations
APPROVED

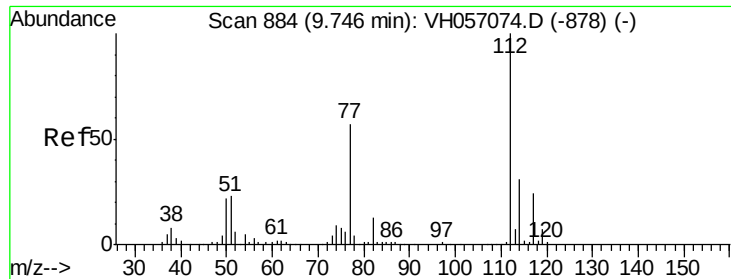
MMDadoda
9/23/2015 11:46:56 AM



#64
Tetrachloroethene
Concen: 55.72 ug/l
RT: 8.10 min Scan# 729
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion:164 Resp: 385195
Ion Ratio Lower Upper
164 100
166 135.8 103.2 154.8
129 85.7 73.4 110.0
131 86.8 70.8 106.2





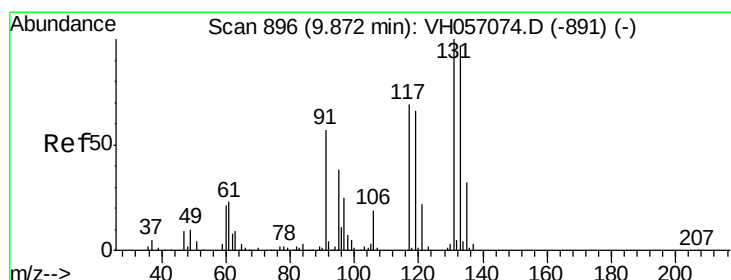
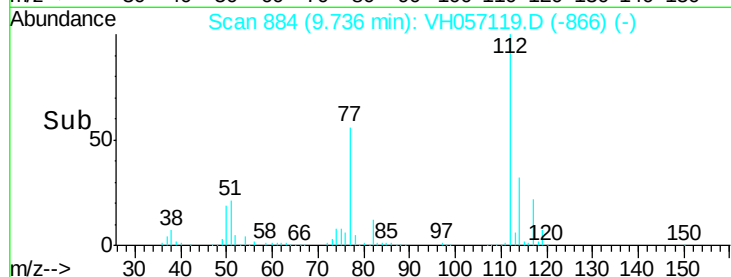
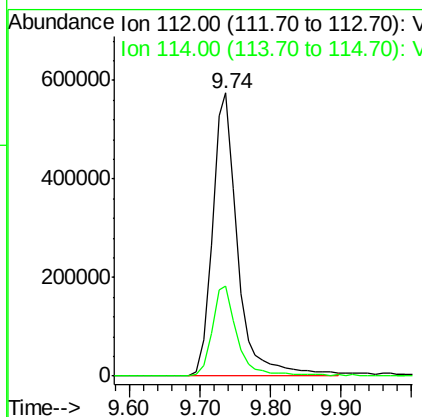
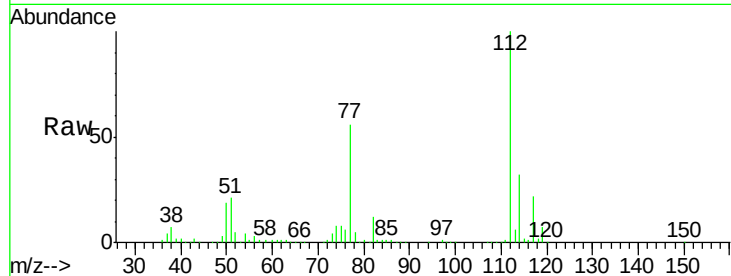
#65
Chlorobenzene
Concen: 54.10 ug/l
RT: 9.74 min Scan# 884
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 1436259
Ion Ratio Lower Upper
112 100
114 31.7 26.3 39.5

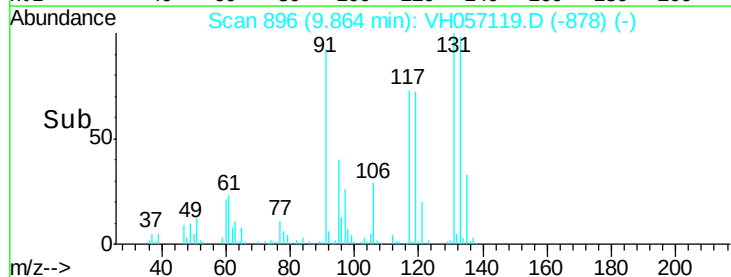
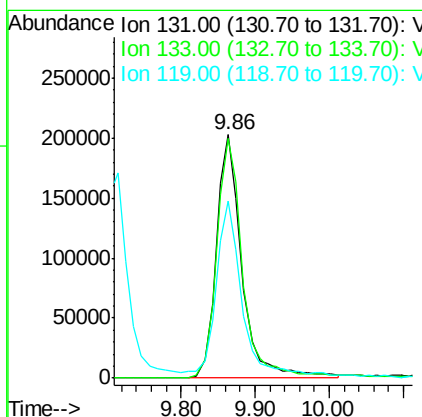
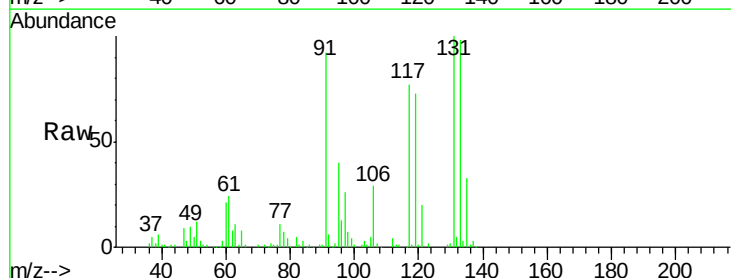
Manual Integrations
APPROVED

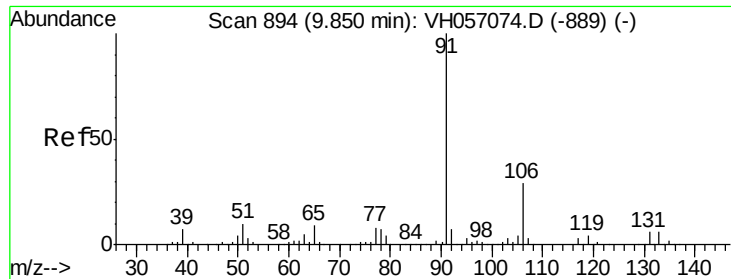
MMDadoda
9/23/2015 11:46:56 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 53.21 ug/l
RT: 9.86 min Scan# 896
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion:131 Resp: 487461
Ion Ratio Lower Upper
131 100
133 98.4 51.1 153.3
119 72.8 36.3 108.9





#67

Ethyl Benzene

Concen: 52.65 ug/l

RT: 9.83 min Scan# 893

Delta R.T. -0.02 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion:106 Resp: 669057

Ion Ratio Lower Upper

106 100

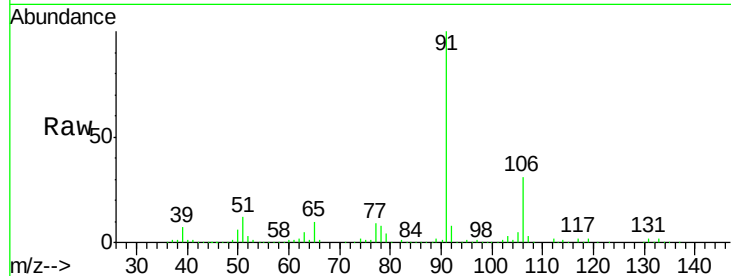
91 324.9 264.9 397.3

Manual Integrations

APPROVED

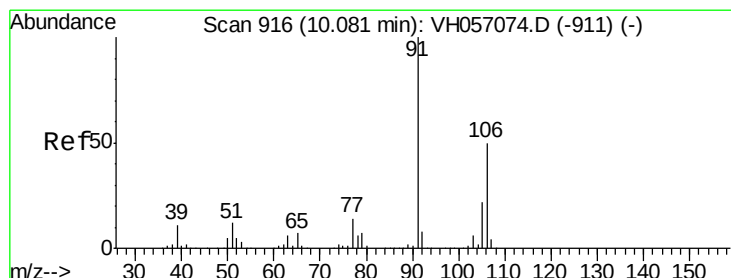
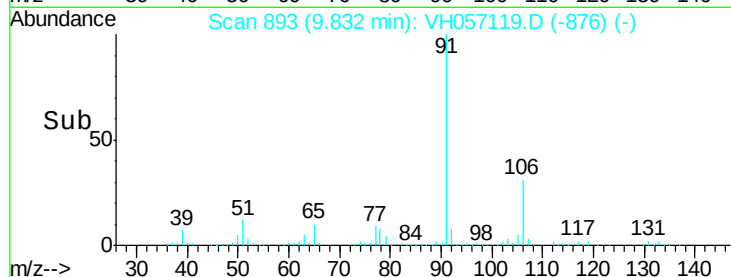
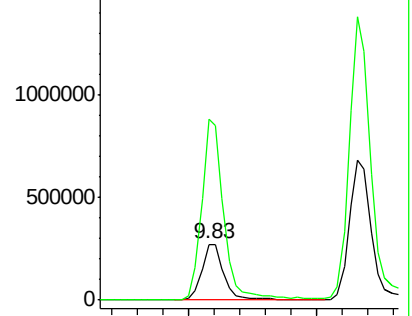
MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VH0



#68

m/p-Xylenes

Concen: 107.08 ug/l

RT: 10.06 min Scan# 915

Delta R.T. -0.02 min

Lab File: VH057119.D

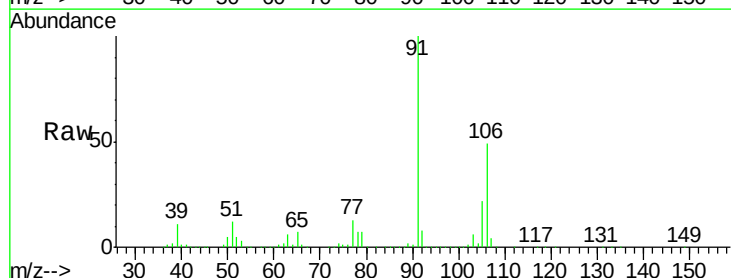
Acq: 22 Sep 2015 22:27

Tgt Ion:106 Resp: 1655132

Ion Ratio Lower Upper

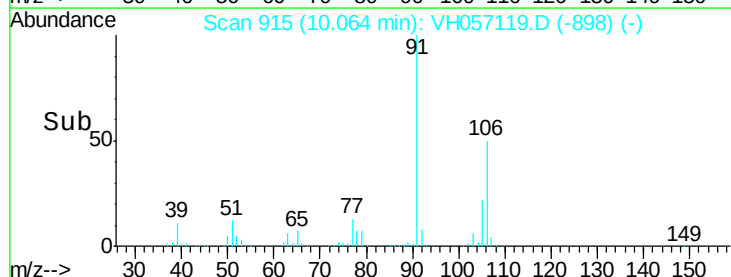
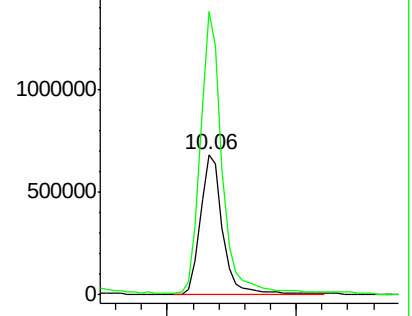
106 100

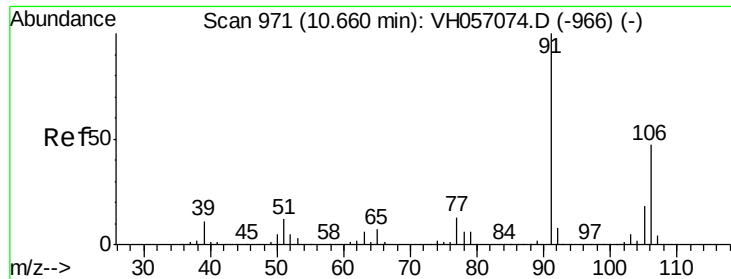
91 202.2 164.4 246.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VH0





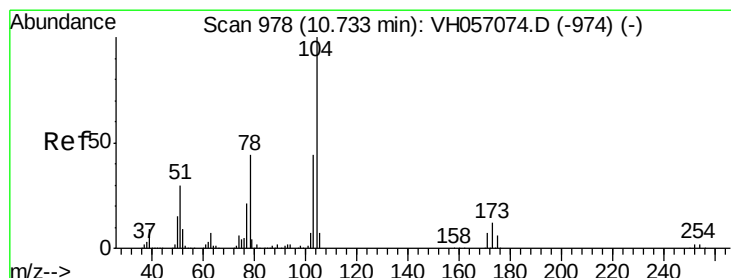
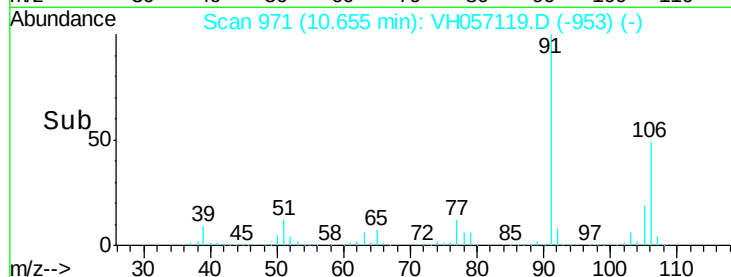
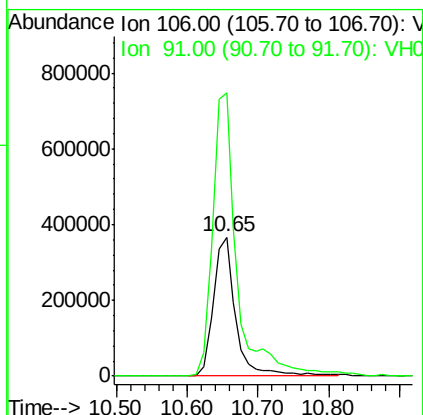
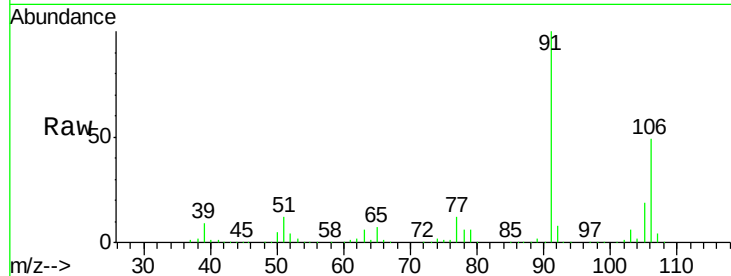
#69
o-Xylene
Concen: 54.51 ug/l
RT: 10.65 min Scan# 971
Delta R.T. -0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 809103
Ion Ratio Lower Upper
106 100
91 203.9 104.2 312.6

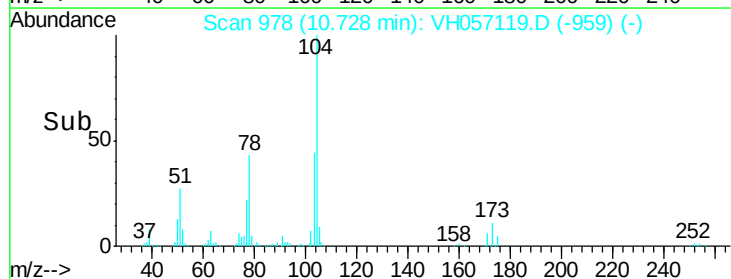
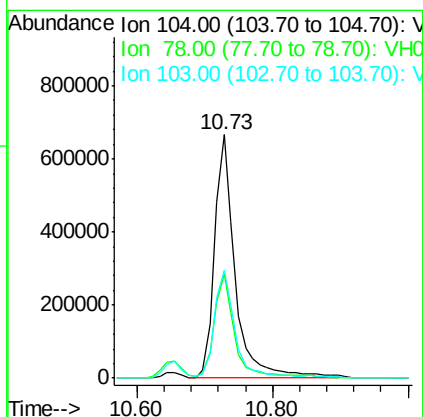
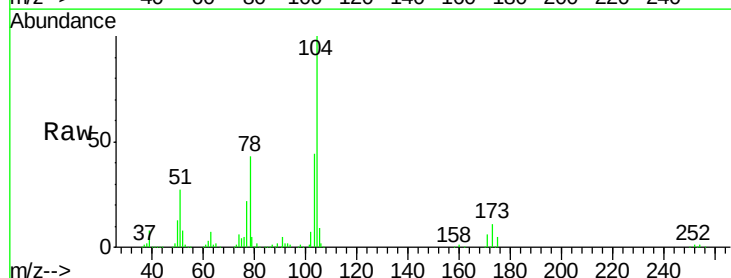
Manual Integrations
APPROVED

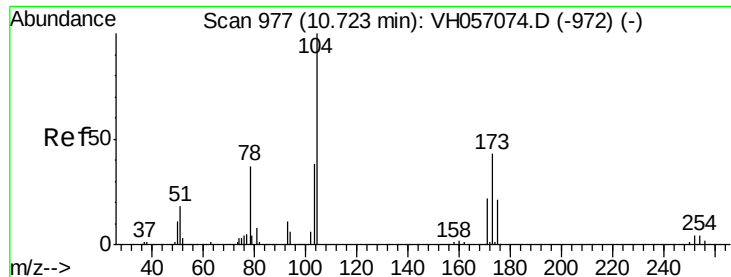
MMDadoda
9/23/2015 11:46:56 AM



#70
Styrene
Concen: 53.69 ug/l
RT: 10.73 min Scan# 978
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion:104 Resp: 1391768
Ion Ratio Lower Upper
104 100
78 42.8 35.2 52.8
103 44.2 35.8 53.6





#71

Bromoform

Concen: 54.80 ug/l

RT: 10.71 min Scan# 976

Delta R.T. -0.02 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion:173 Resp: 429502
Ion Ratio Lower Upper

173 100

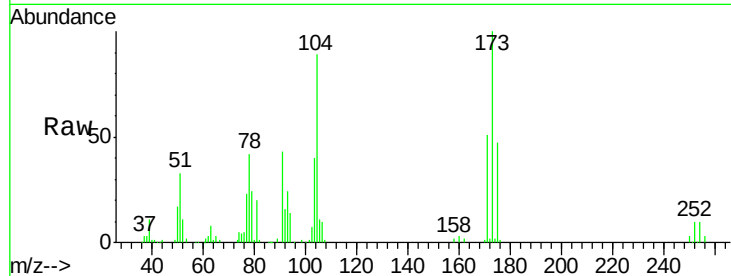
175 46.8 23.3 69.9

254 9.6 4.4 13.2

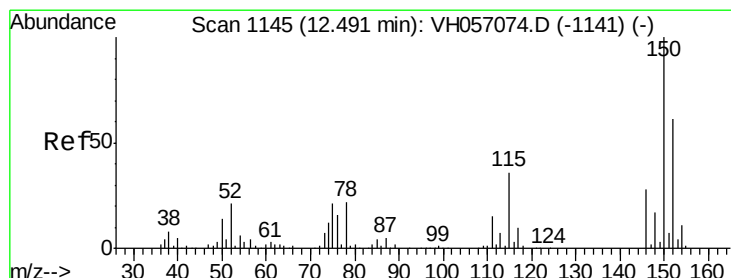
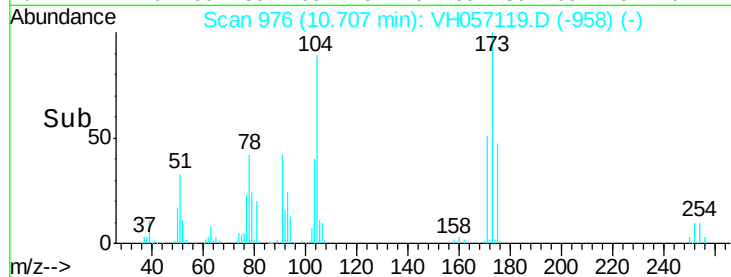
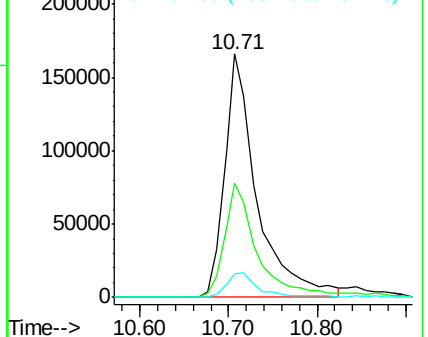
Manual Integrations
APPROVED

MMDadoda

9/23/2015 11:46:56 AM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.48 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VH057119.D

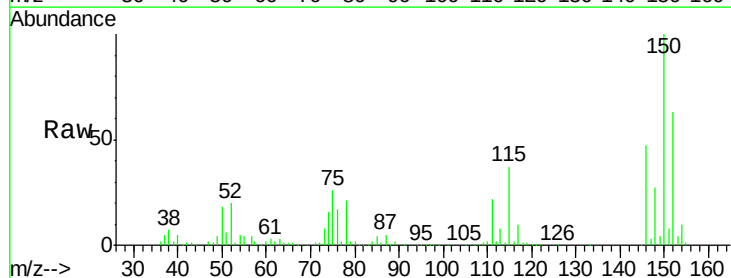
Acq: 22 Sep 2015 22:27

Tgt Ion:152 Resp: 348535
Ion Ratio Lower Upper

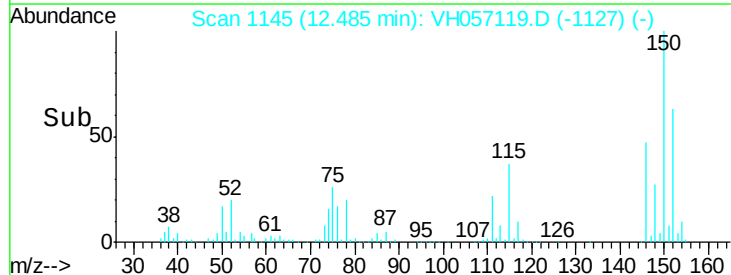
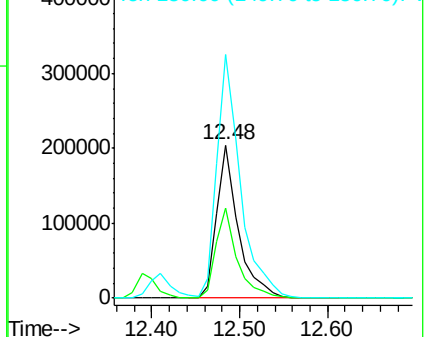
152 100

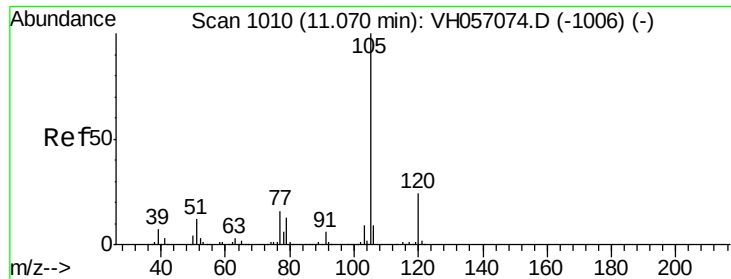
115 58.6 28.2 84.6

150 159.4 0.0 332.0



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





#73

Isopropylbenzene

Concen: 51.51 ug/l

RT: 11.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 1639440

Ion Ratio Lower Upper

105 100

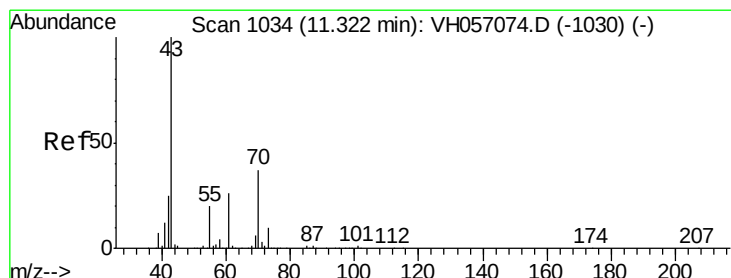
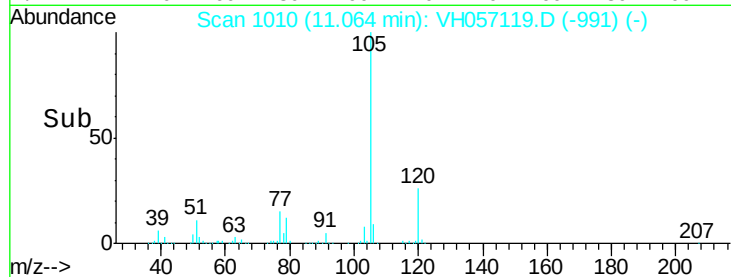
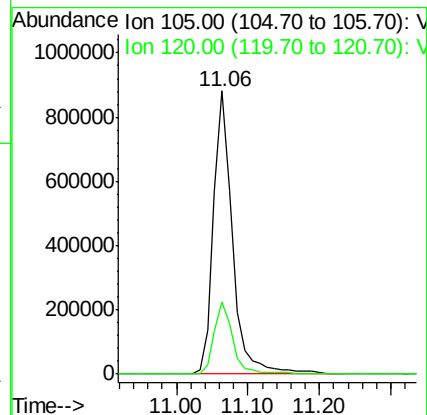
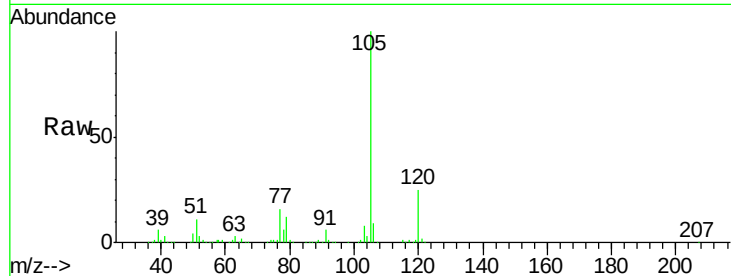
120 25.5 12.2 36.4

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#74

n-Amyl Acetate

Concen: 49.64 ug/l

RT: 11.32 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Tgt Ion: 43 Resp: 1678846

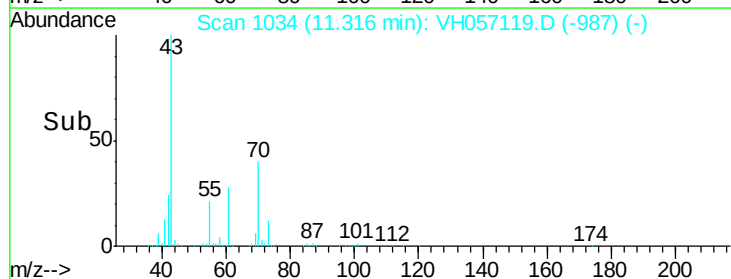
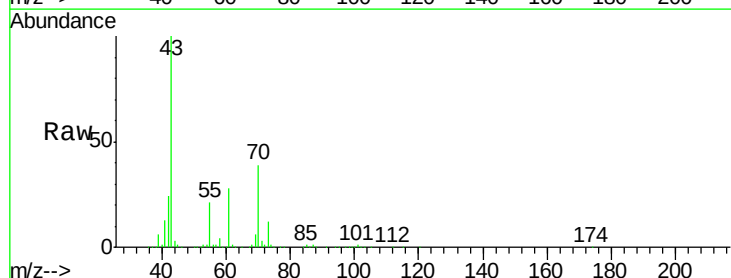
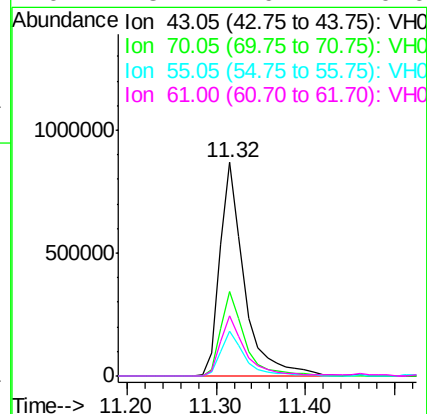
Ion Ratio Lower Upper

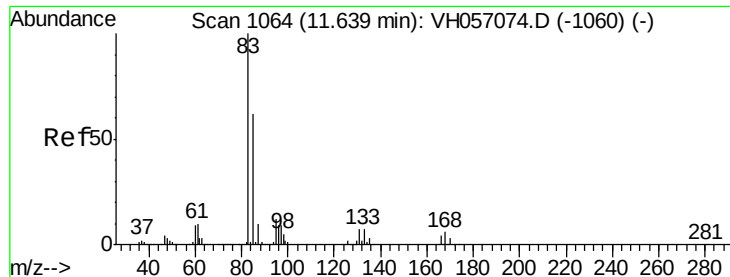
43 100

70 39.5 27.3 40.9

55 21.2 15.3 22.9

61 28.2 19.4 29.0





#75

1,1,2,2-Tetrachloroethane

Concen: 52.55 ug/l

RT: 11.63 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 876857
Ion Ratio Lower Upper

83 100

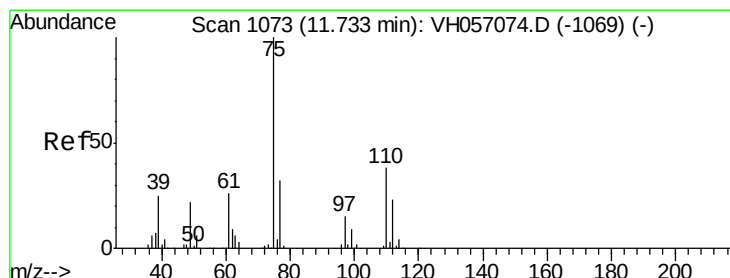
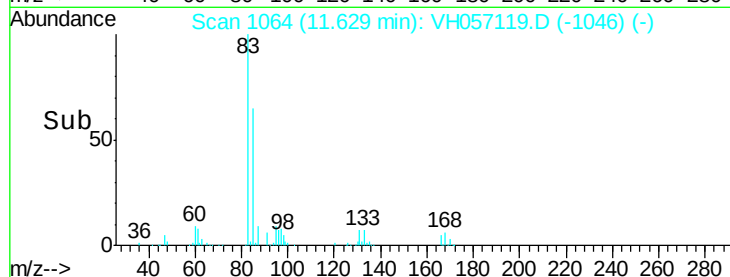
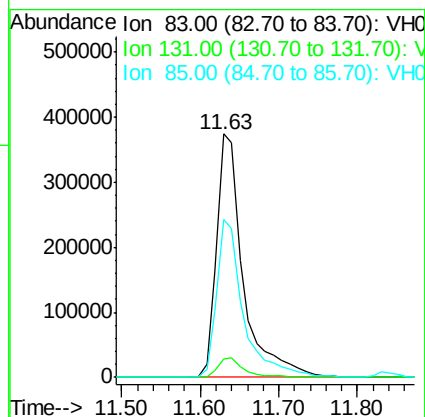
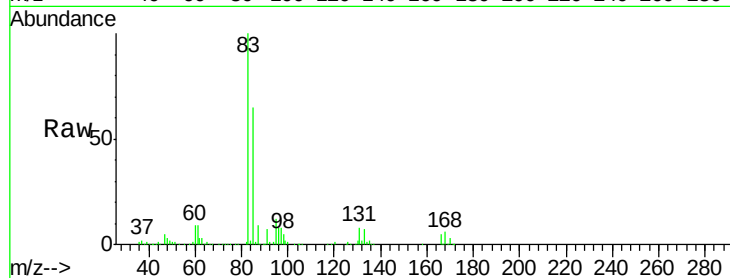
131 7.6 3.1 9.3

85 65.0 32.3 96.8

Manual Integrations
APPROVED

MMDadoda

9/23/2015 11:46:56 AM



#76

1,2,3-Trichloropropane

Concen: 52.44 ug/l

RT: 11.72 min Scan# 1073

Delta R.T. -0.01 min

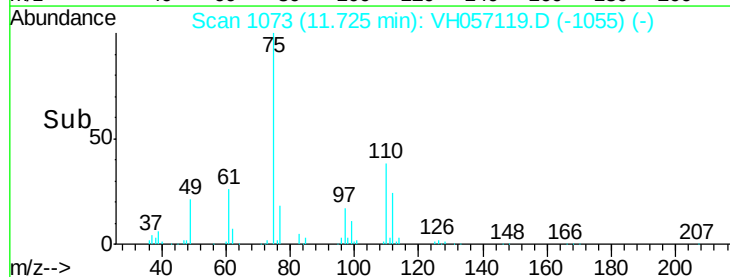
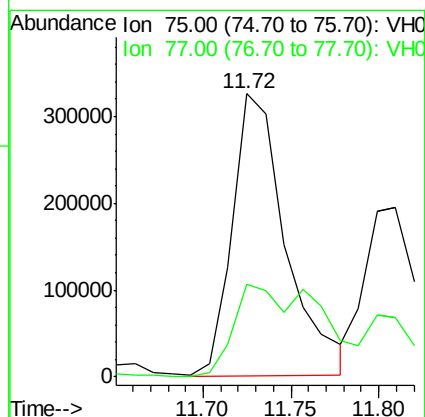
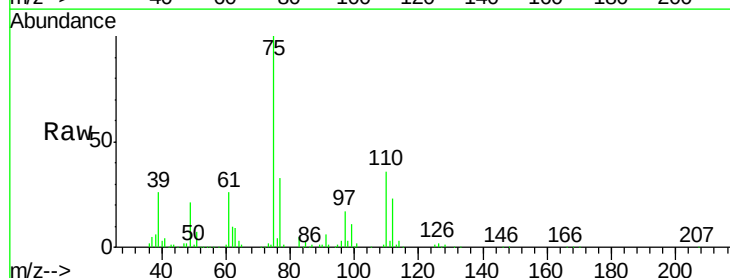
Lab File: VH057119.D

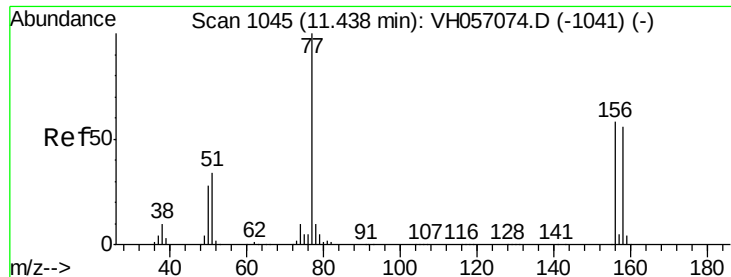
Acq: 22 Sep 2015 22:27

Tgt Ion: 75 Resp: 686626
Ion Ratio Lower Upper

75 100

77 32.9 14.9 44.9





#77

Bromobenzene

Concen: 55.93 ug/l

RT: 11.43 min Scan# 1045

Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

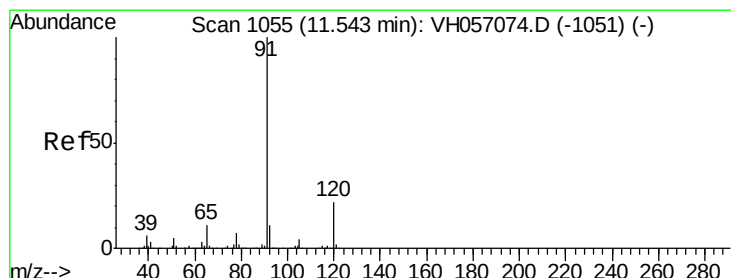
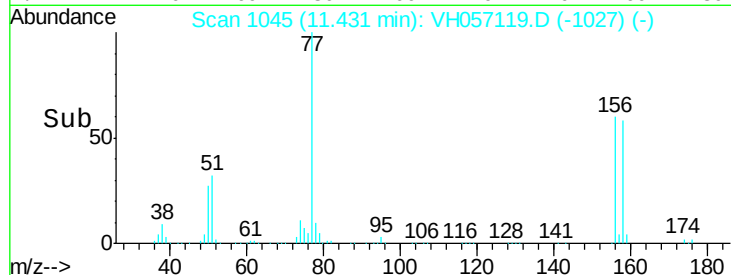
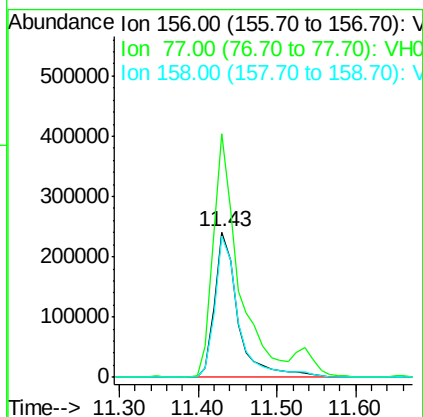
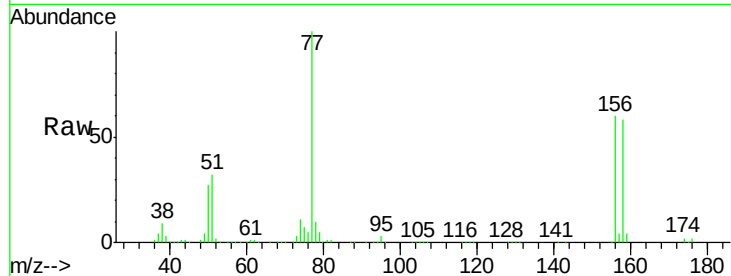
ClientSampleId :

VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
156	100	506696		
77	167.8	73.5	220.5	
158	97.3	46.8	140.3	

Manual Integrations
APPROVED

MMDadoda
9/23/2015 11:46:56 AM



#78

n-propylbenzene

Concen: 49.61 ug/l

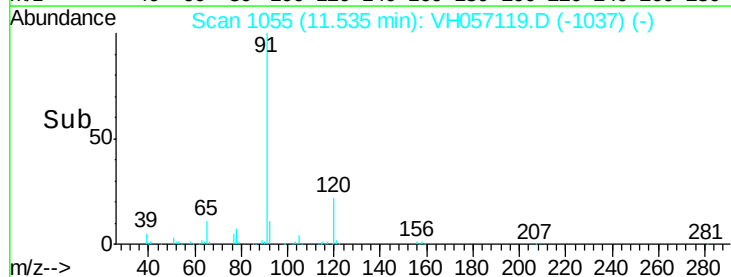
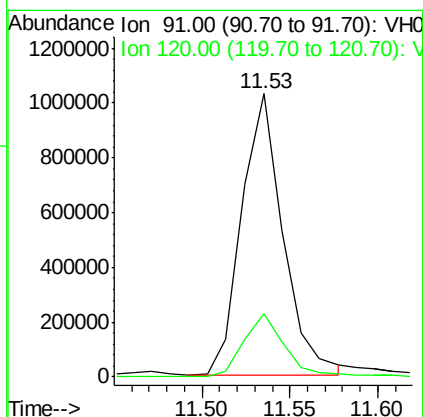
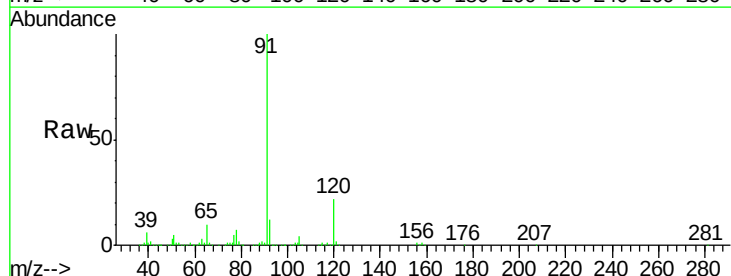
RT: 11.53 min Scan# 1055

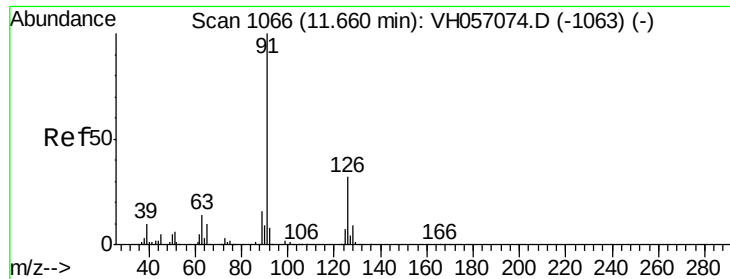
Delta R.T. -0.01 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1688197		
120	22.4	10.2	30.6	





#79

2-Chlorotoluene

Concen: 50.61 ug/l

RT: 11.66 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VH057119.D

Acq: 22 Sep 2015 22:27

Instrument :

MSVOA_H

ClientSampled :

VSTDCCC050EC

Tgt Ion: 91 Resp: 1038891

Ion Ratio Lower Upper

91 100

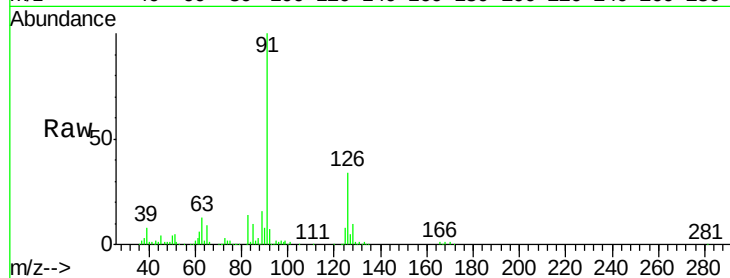
126 33.7 16.3 48.9

Manual Integrations

APPROVED

MMDadoda

9/23/2015 11:46:56 AM



Abundance Ion 91.00 (90.70 to 91.70): VH057074.D (-1063) (-)

Ion 126.00 (125.70 to 126.70): VH057074.D (-1063) (-)

11.66

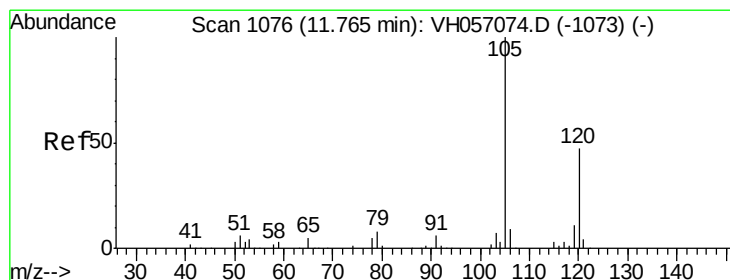
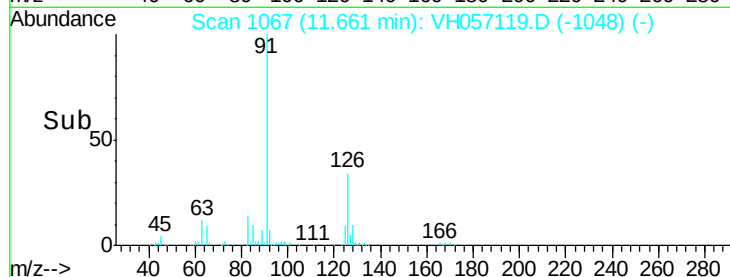
600000

400000

200000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 51.70 ug/l

RT: 11.77 min Scan# 1077

Delta R.T. 0.00 min

Lab File: VH057119.D

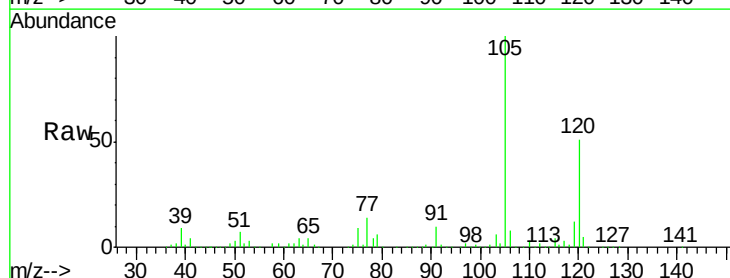
Acq: 22 Sep 2015 22:27

Tgt Ion: 105 Resp: 1075329

Ion Ratio Lower Upper

105 100

120 51.5 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): VH057074.D (-1073) (-)

Ion 120.00 (119.70 to 120.70): VH057074.D (-1073) (-)

11.77

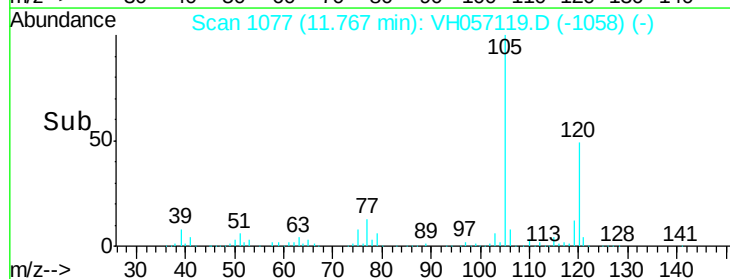
600000

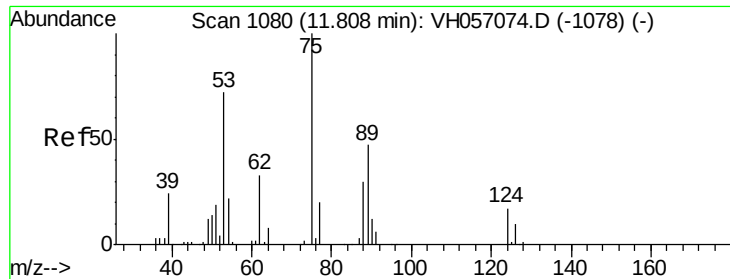
400000

200000

0

Time-->





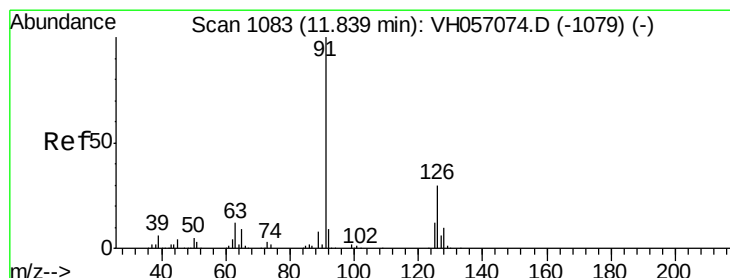
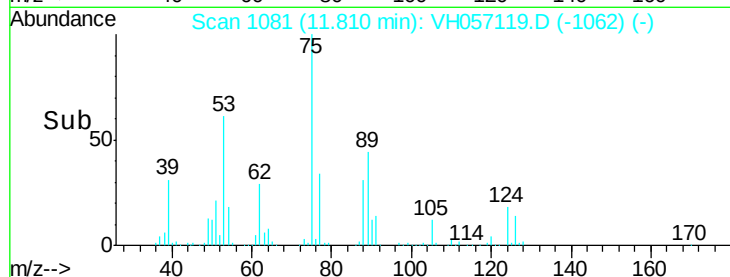
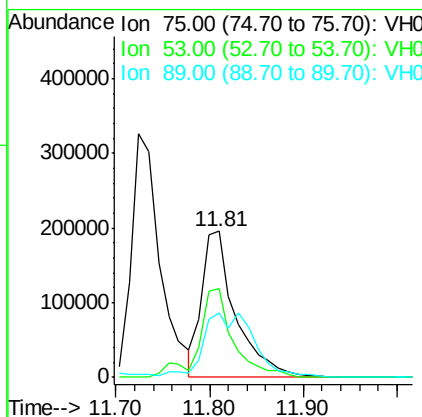
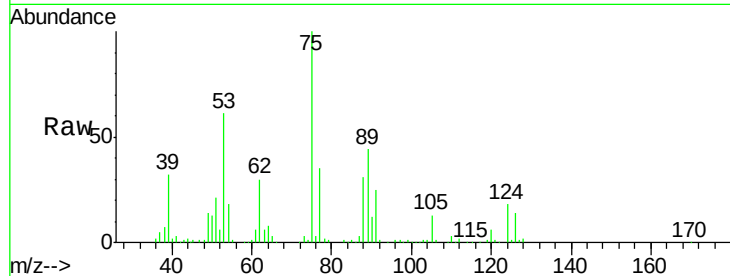
#81
trans-1,4-Dichloro-2-Butene
Concen: 50.93 ug/l
RT: 11.81 min Scan# 1081
Delta R.T. 0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
75	100		
53	60.7	32.0	96.2
89	44.3	21.1	63.3

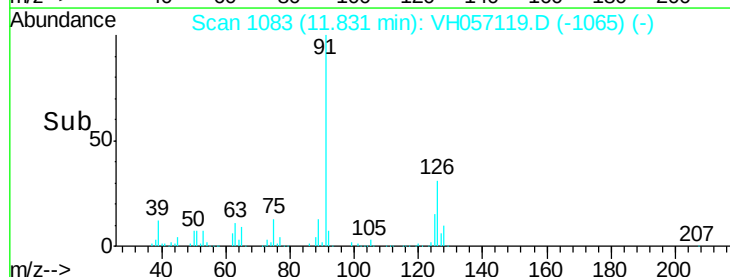
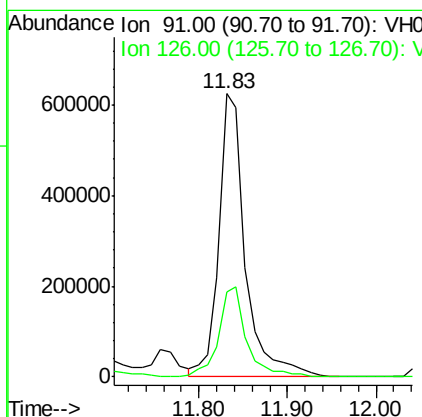
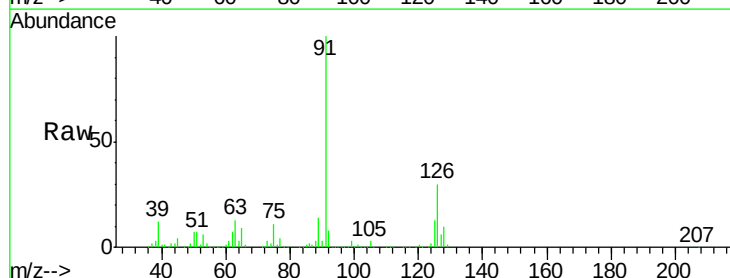
Manual Integrations
APPROVED

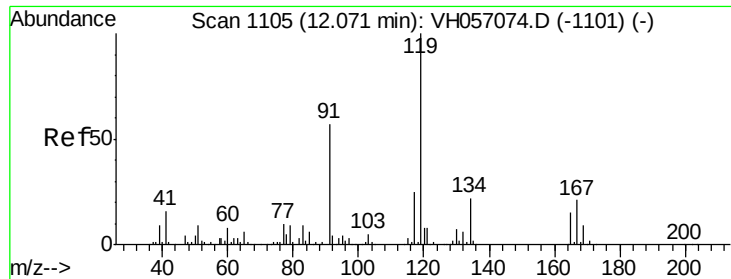
MMDadoda
9/23/2015 11:46:56 AM



#82
4-Chlorotoluene
Concen: 51.23 ug/l
RT: 11.83 min Scan# 1083
Delta R.T. -0.01 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.9	17.0	51.0





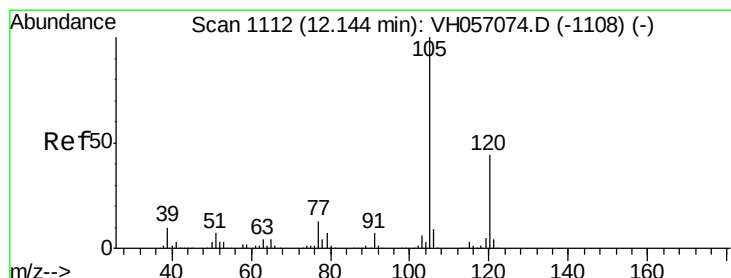
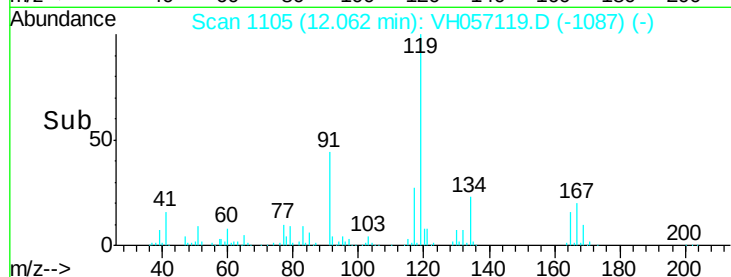
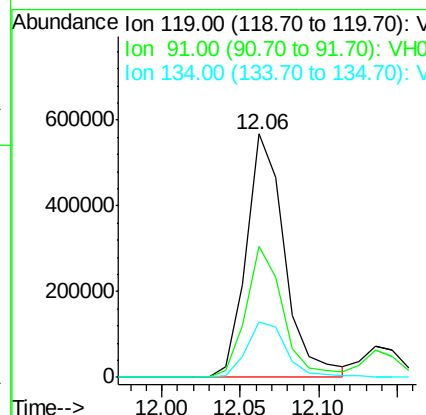
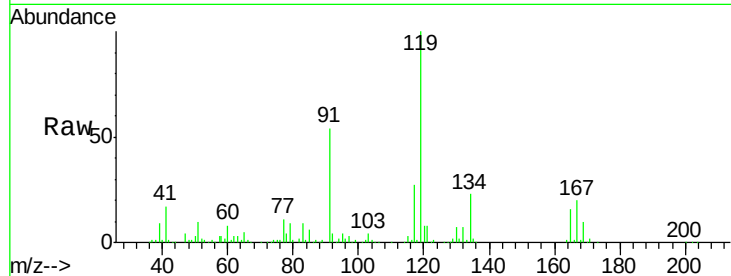
#83
 tert-Butylbenzene
 Concen: 49.20 ug/l
 RT: 12.06 min Scan# 1105
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	966119		
91	53.9	28.5	85.6	
134	22.6	11.5	34.5	

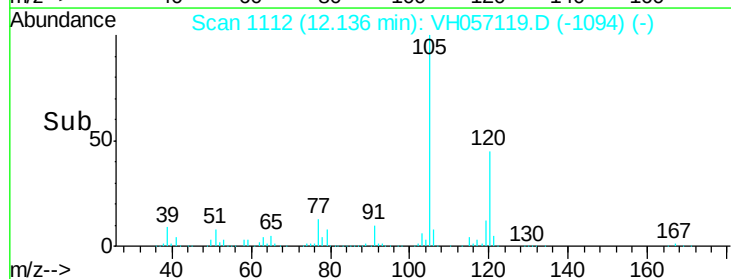
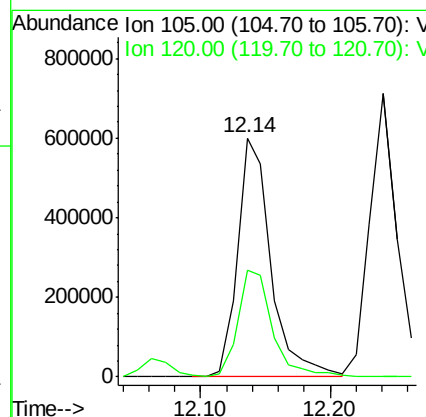
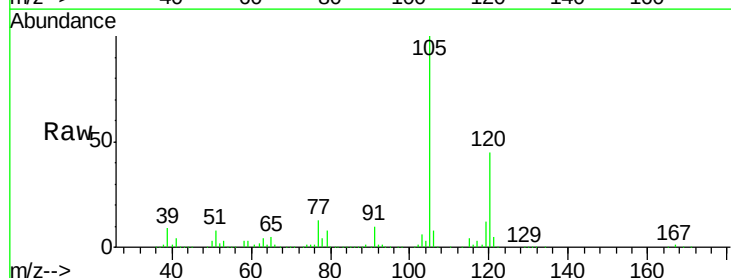
Manual Integrations
 APPROVED

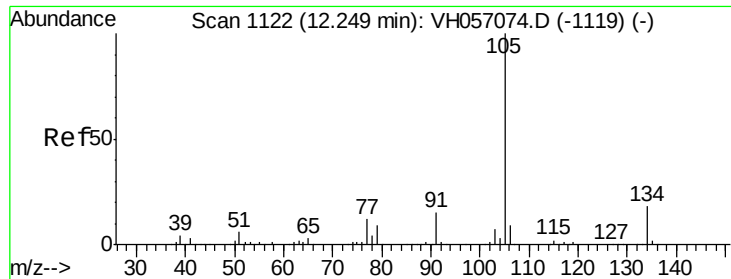
MMDadoda
 9/23/2015 11:46:56 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 49.70 ug/l
 RT: 12.14 min Scan# 1112
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	1066905		
120	45.0	22.6	67.7	





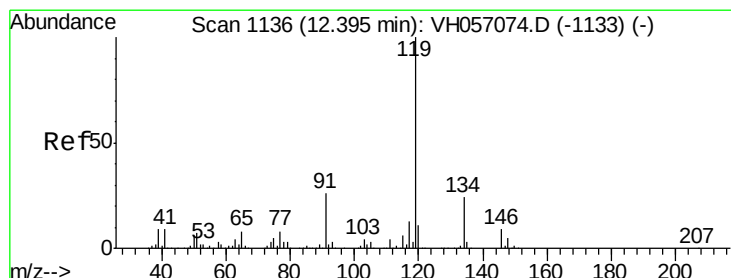
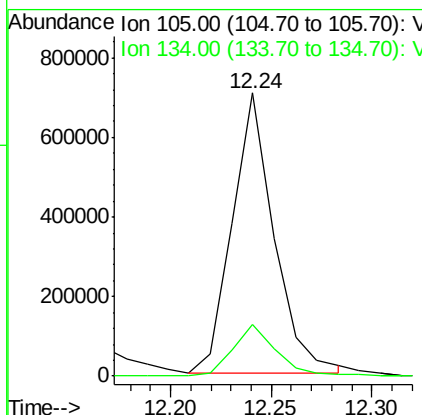
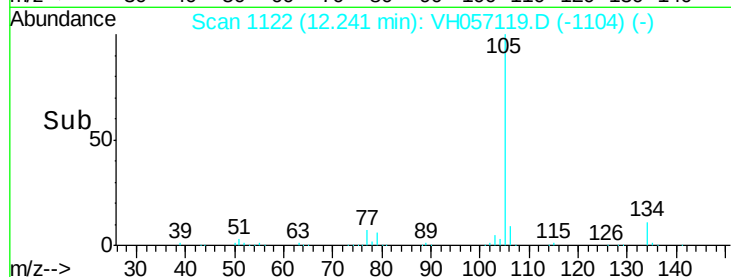
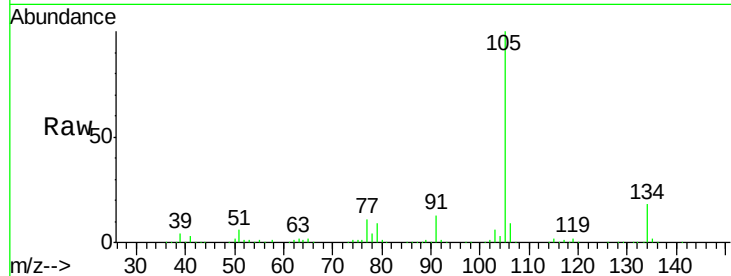
#85
 sec-Butylbenzene
 Concen: 48.48 ug/l
 RT: 12.24 min Scan# 1122
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion:105 Resp: 1018066
 Ion Ratio Lower Upper
 105 100
 134 18.1 9.1 27.3

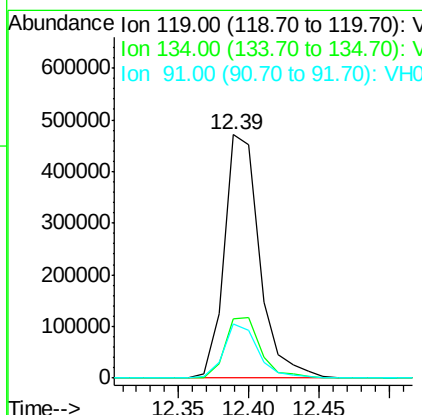
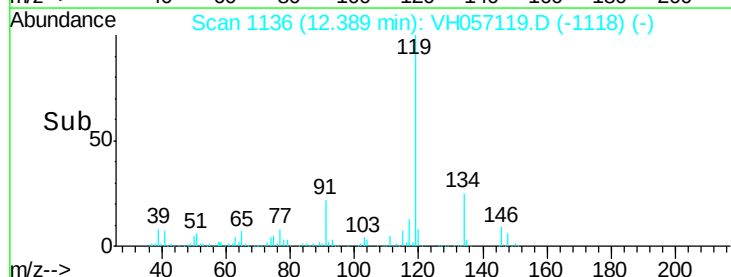
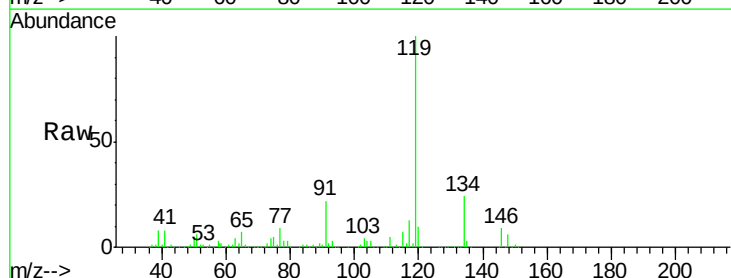
Manual Integrations
 APPROVED

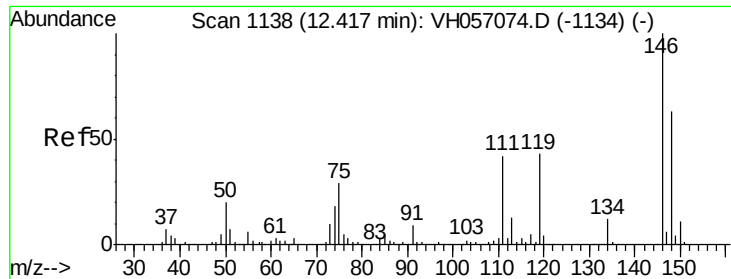
MMDadoda
 9/23/2015 11:46:56 AM



#86
 p-Isopropyltoluene
 Concen: 51.41 ug/l
 RT: 12.39 min Scan# 1136
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion:119 Resp: 819703
 Ion Ratio Lower Upper
 119 100
 134 24.4 13.0 38.9
 91 22.5 12.5 37.5





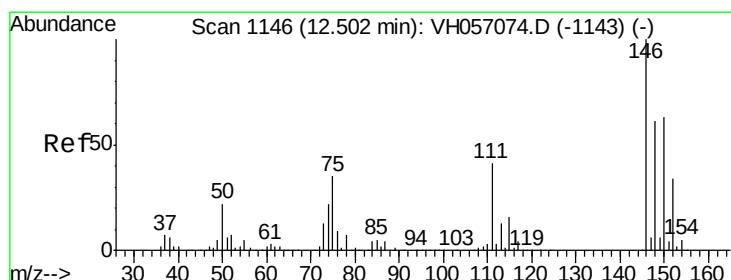
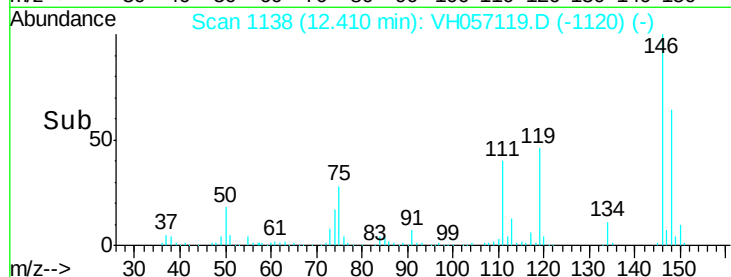
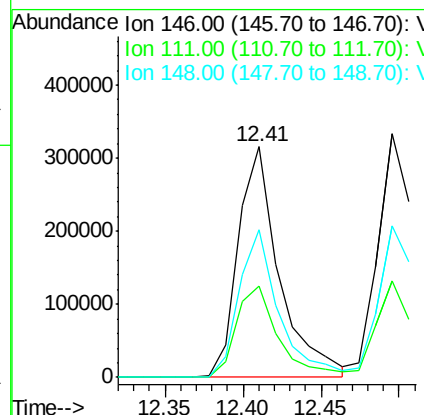
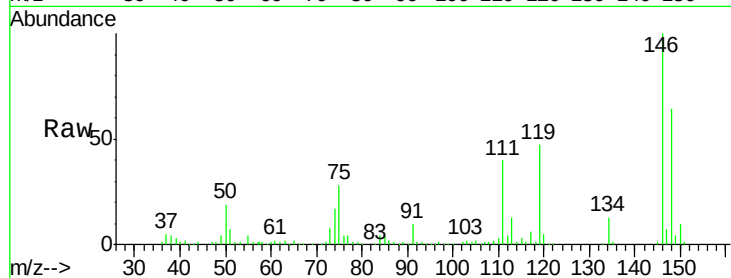
#87
 1,3-Dichlorobenzene
 Concen: 53.27 ug/l
 RT: 12.41 min Scan# 1138
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	21.0	63.0
148	64.1	31.6	94.7

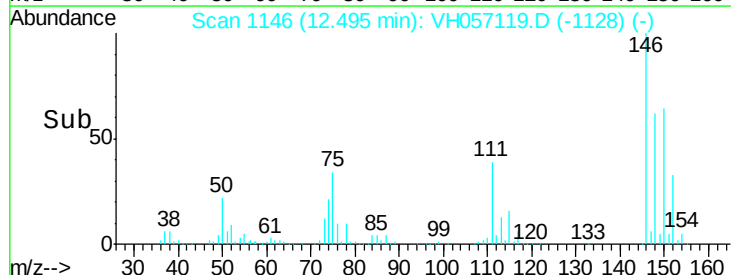
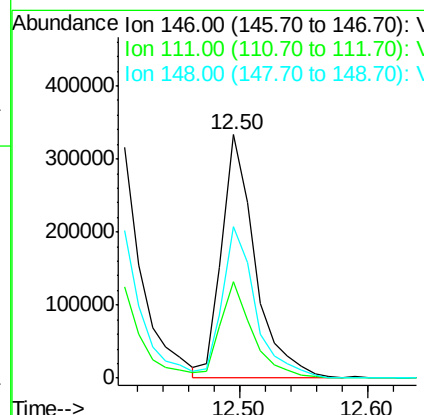
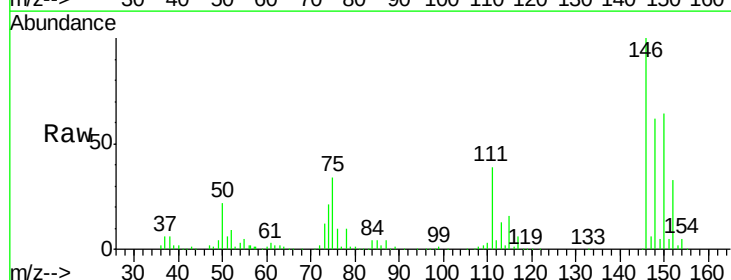
Manual Integrations
 APPROVED

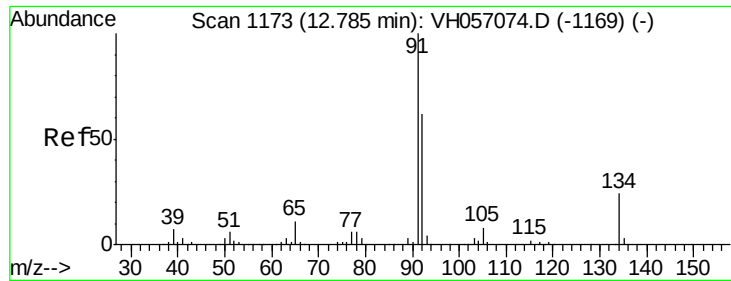
MMDadoda
 9/23/2015 11:46:56 AM



#88
 1,4-Dichlorobenzene
 Concen: 54.10 ug/l
 RT: 12.50 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.8	59.3
148	62.1	30.3	90.9





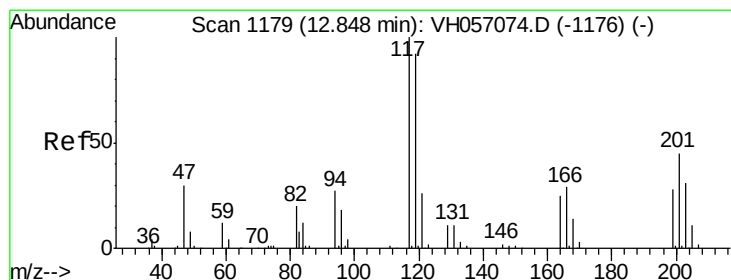
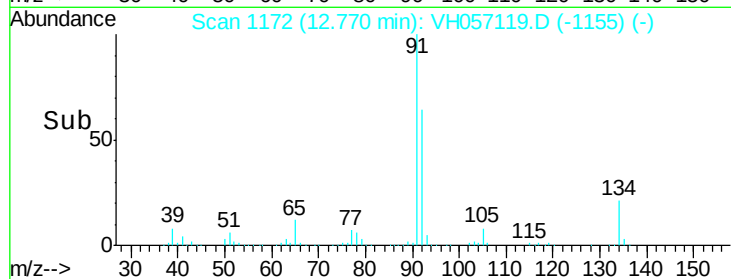
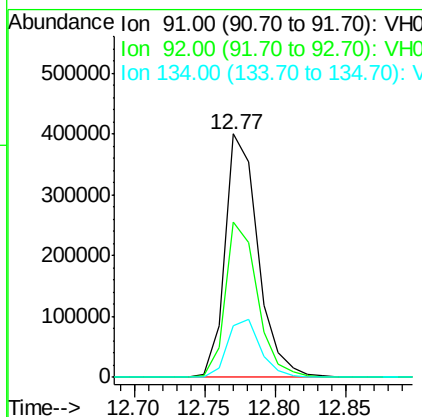
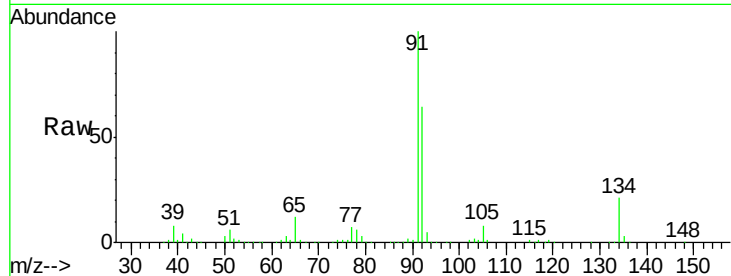
#89
n-Butylbenzene
Concen: 51.03 ug/l
RT: 12.77 min Scan# 1172
Delta R.T. -0.02 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	650391		
92	63.6	31.3	93.9	
134	21.3	10.5	31.6	

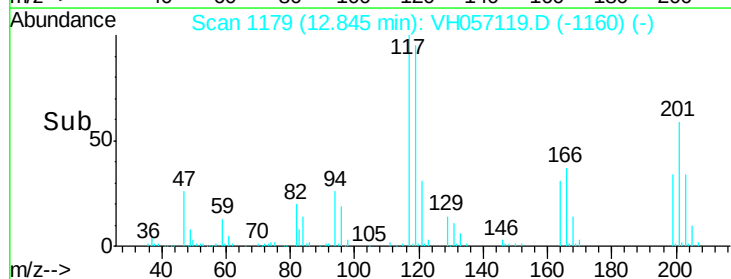
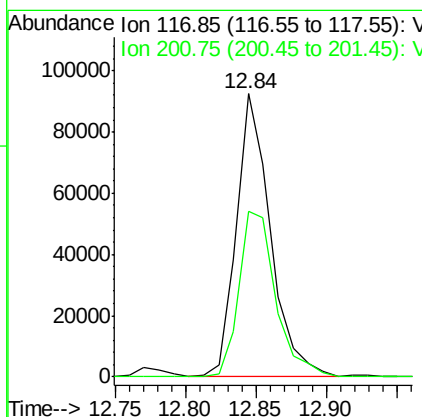
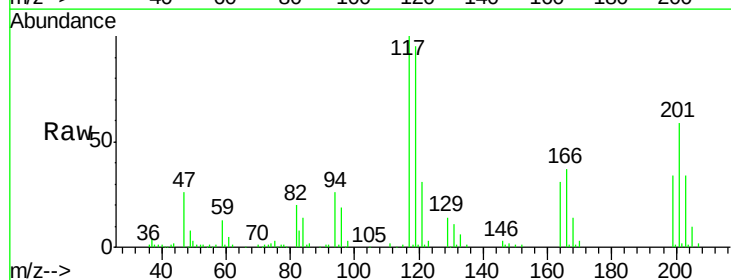
Manual Integrations
APPROVED

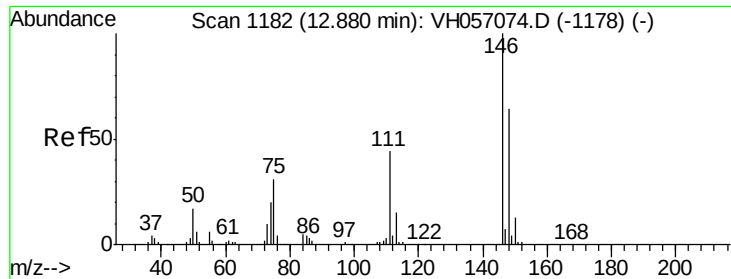
MMDadoda
9/23/2015 11:46:56 AM



#90
Hexachloroethane
Concen: 46.53 ug/l
RT: 12.84 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	157039		
201	58.6	14.0	80.8	





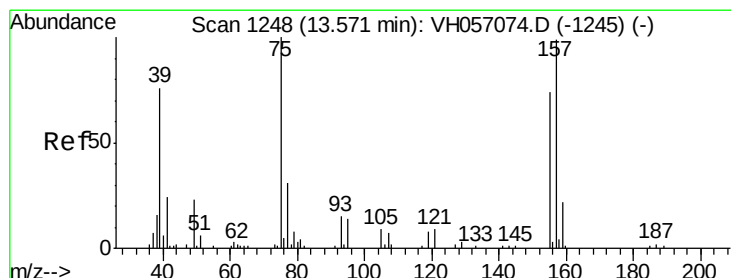
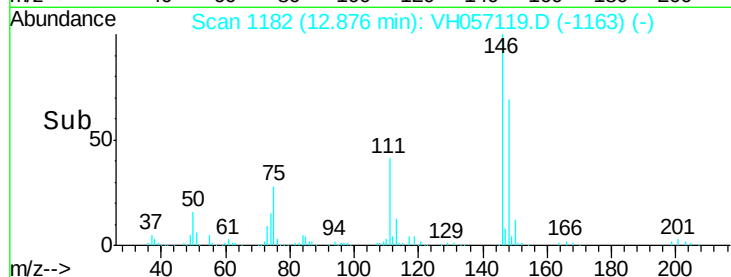
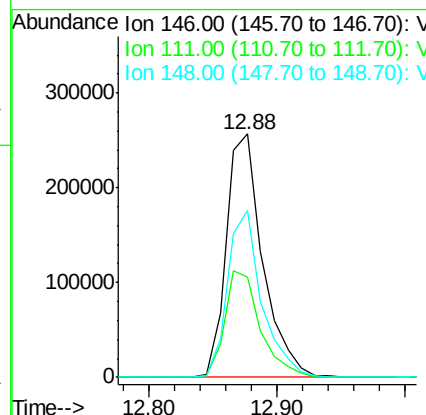
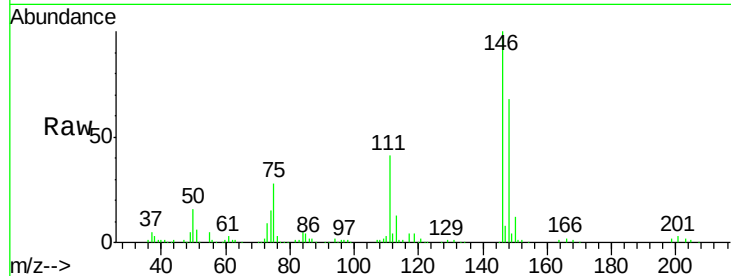
#91
 1,2-Dichlorobenzene
 Concen: 52.54 ug/l
 RT: 12.88 min Scan# 1182
 Delta R.T. -0.00 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	511734		
111	41.0	22.1	66.1	
148	68.4	31.4	94.3	

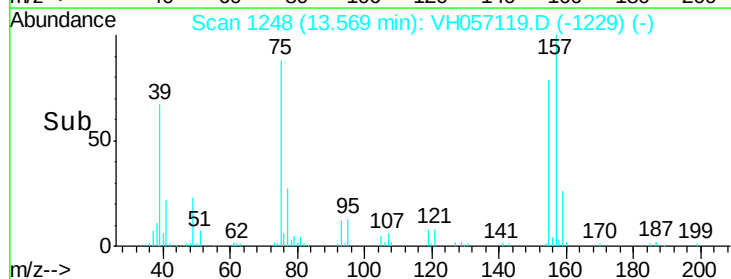
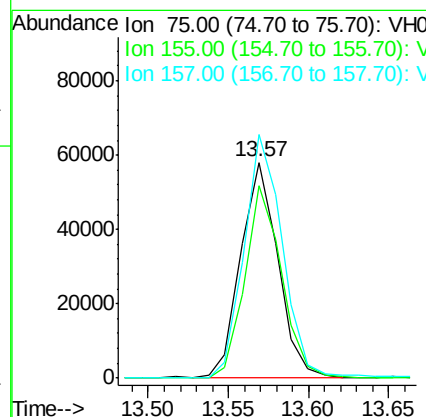
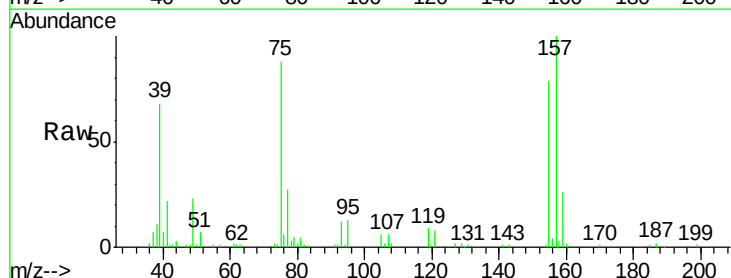
Manual Integrations
 APPROVED

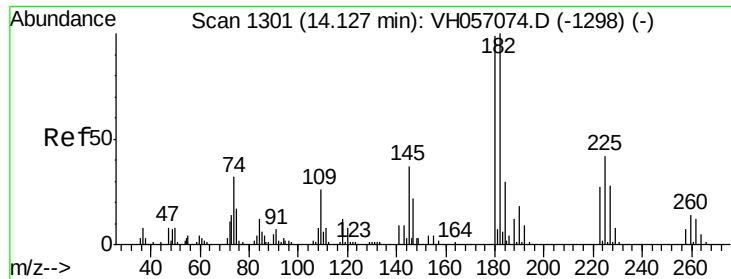
MMDadoda
 9/23/2015 11:46:56 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.16 ug/l
 RT: 13.57 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	93861		
155	89.5	43.4	130.2	
157	113.0	62.8	188.4	





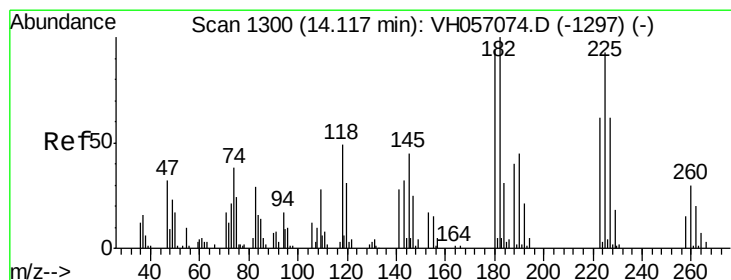
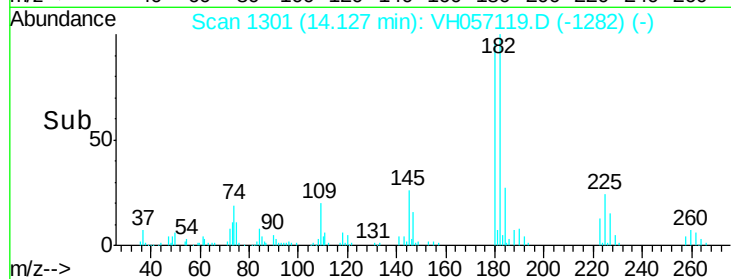
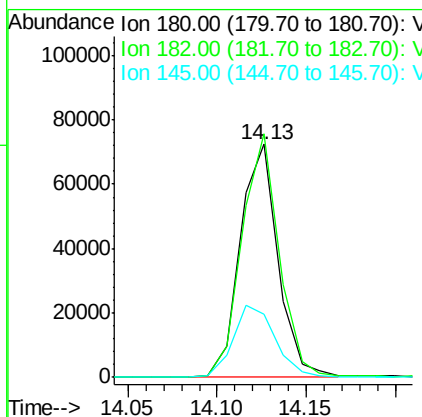
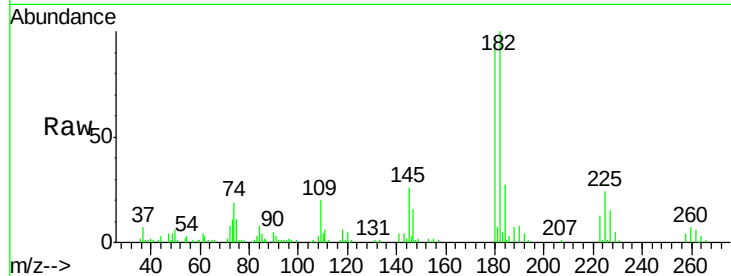
#93
 1,2,4-Trichlorobenzene
 Concen: 49.15 ug/l
 RT: 14.13 min Scan# 1301
 Delta R.T. 0.00 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Instrument :
 MSVOA_H
 ClientSampleId :
 VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	107174		
182	104.4	43.0	129.2	
145	27.3	17.3	52.0	

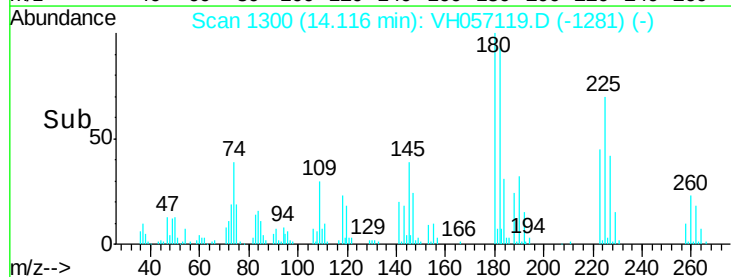
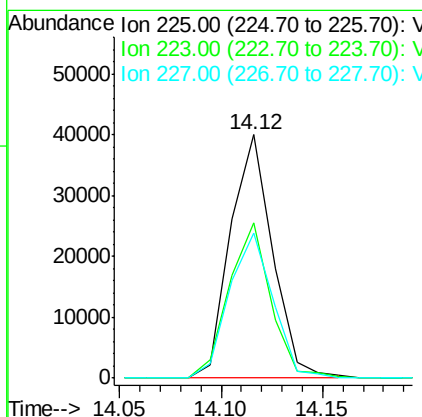
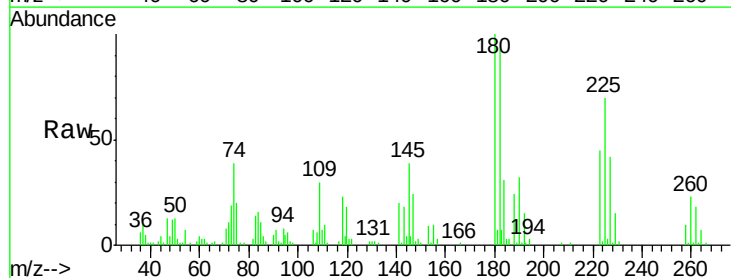
Manual Integrations
 APPROVED

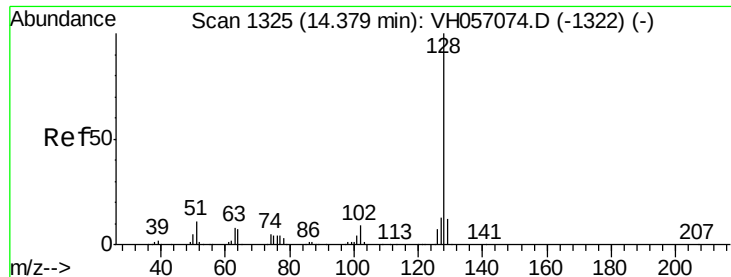
MMDadoda
 9/23/2015 11:46:56 AM



#94
 Hexachlorobutadiene
 Concen: 56.49 ug/l
 RT: 14.12 min Scan# 1300
 Delta R.T. -0.00 min
 Lab File: VH057119.D
 Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	56927		
223	64.0	30.3	90.8	
227	59.8	30.5	91.5	





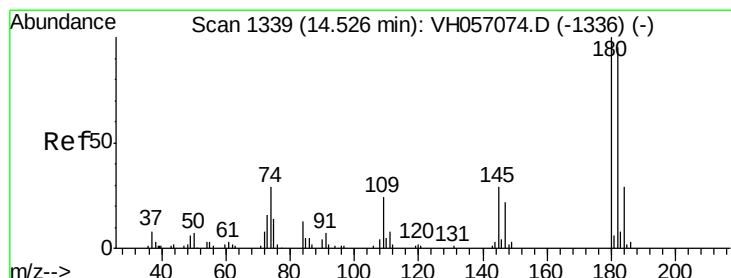
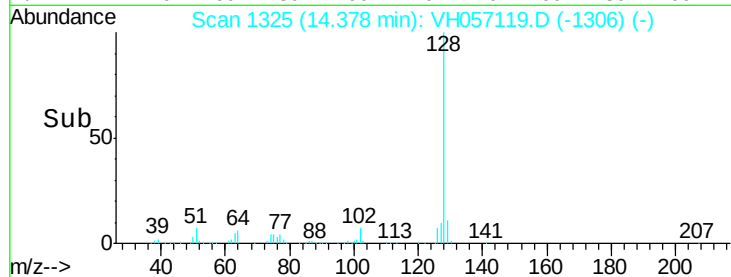
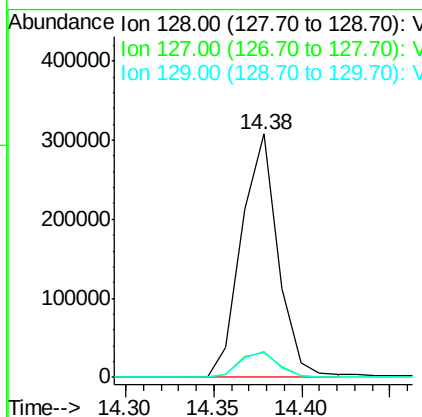
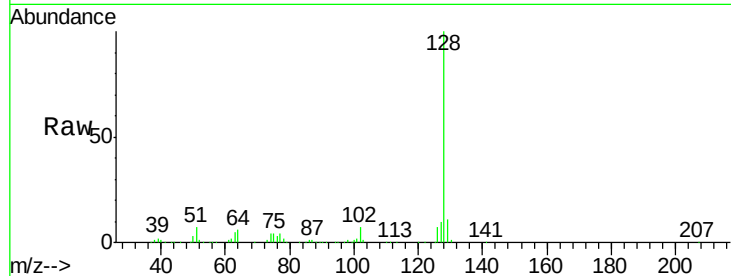
#95
Naphthalene
Concen: 49.93 ug/l
RT: 14.38 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Instrument :
MSVOA_H
ClientSampleId :
VSTDCCC050EC

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	442102		
127	10.4	9.6	14.4	
129	10.9	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
9/23/2015 11:46:56 AM



#96
1,2,3-Trichlorobenzene
Concen: 50.33 ug/l
RT: 14.53 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VH057119.D
Acq: 22 Sep 2015 22:27

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	75127		
182	101.6	47.1	141.3	
145	33.9	12.5	37.5	

