

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062173.D
 Acq On : 16 Apr 2019 12:45
 Operator : FY/SY
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 11:50:25 AM

Quant Time: Apr 17 07:49:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:22:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	423806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	654633	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	539796	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	260238	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	292127	76.51	ug/l	0.00
Spiked Amount			Recovery	=	153.02%	
35) Dibromofluoromethane	4.31	113	378096	73.22	ug/l	0.00
Spiked Amount			Recovery	=	146.44%	
50) Toluene-d8	7.71	98	1108320	73.45	ug/l	0.00
Spiked Amount			Recovery	=	146.90%	
62) 4-Bromofluorobenzene	11.49	95	402542	67.55	ug/l	0.00
Spiked Amount			Recovery	=	135.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	439293	70.524	ug/l	98
3) Chloromethane	1.13	50	491575	73.419	ug/l	98
4) Vinyl Chloride	1.18	62	429246	73.226	ug/l	96
5) Bromomethane	1.36	94	278280	73.964	ug/l	92
6) Chloroethane	1.44	64	202661	73.073	ug/l	100
7) Trichlorofluoromethane	1.54	101	499704	71.481	ug/l	98
8) Diethyl Ether	1.71	74	96690	68.559	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	1.91	101	321462	70.252	ug/l	98
10) Methyl Iodide	1.98	142	620932	72.797	ug/l	99
11) Tert butyl alcohol	2.69	59	80882	382.165	ug/l	95
12) 1,1-Dichloroethene	1.86	96	340307	73.130	ug/l	96
13) Acrolein	2.10	56	40583	245.924	ug/l	99
14) Allyl chloride	2.20	41	461508	65.863	ug/l	99
15) Acrylonitrile	3.09	53	324582	416.509	ug/l	97
16) Acetone	2.35	43	318256	369.698	ug/l	99
17) Carbon Disulfide	1.90	76	986366	74.531	ug/l	97
18) Methyl Acetate	2.46	43	131318	64.295	ug/l	97
19) Methyl tert-butyl Ether	2.54	73	545079	70.419	ug/l	99
20) Methylene Chloride	2.29	84	310683m	62.989	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	310182	69.666	ug/l	95
22) Diisopropyl ether	2.94	45	901677	69.228	ug/l	98
23) Vinyl Acetate	3.34	43	2388390	367.613	ug/l	99
24) 1,1-Dichloroethane	3.01	63	537288	74.077	ug/l	99
25) 2-Butanone	4.53	43	682989	369.222	ug/l	100
26) 2,2-Dichloropropane	3.78	77	270622	70.936	ug/l	98
27) cis-1,2-Dichloroethene	3.65	96	433779	73.395	ug/l	94
28) Bromochloromethane	3.90	49	249967	71.972	ug/l	87
29) Tetrahydrofuran	4.26	42	291411	354.290	ug/l	97
30) Chloroform	4.05	83	656153	72.765	ug/l	99
31) Cyclohexane	3.87	56	682967	72.943	ug/l	98
32) 1,1,1-Trichloroethane	4.29	97	430004	69.931	ug/l	99
36) 1,1-Dichloropropene	4.48	75	510317	70.162	ug/l	96
37) Ethyl Acetate	4.30	43	239917	71.586	ug/l	99
38) Carbon Tetrachloride	4.19	117	461577m	72.560	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	669436	73.445	ug/l	98
40) Benzene	4.82	78	1405839	73.172	ug/l	98
41) Methacrylonitrile	4.93	41	144506	71.760	ug/l	96
42) 1,2-Dichloroethane	5.13	62	376381	77.401	ug/l	97
43) Isopropyl Acetate	7.11	43	279872	71.855	ug/l #	98
44) Trichloroethene	5.69	130	364319	70.846	ug/l	95
45) 1,2-Dichloropropane	6.41	63	336964	71.492	ug/l	95
46) Dibromomethane	6.26	93	211076	74.265	ug/l	99
47) Bromodichloromethane	6.56	83	463017	71.908	ug/l	99
48) Methyl methacrylate	6.87	41	186238	73.458	ug/l	97
49) 1,4-Dioxane	6.86	88	27528	1393.378	ug/l #	87
51) 4-Methyl-2-Pentanone	8.40	43	1083527	363.132	ug/l	97
52) Toluene	7.78	92	795144	70.450	ug/l	97
53) t-1,3-Dichloropropene	8.43	75	403571	72.359	ug/l	95
54) cis-1,3-Dichloropropene	7.46	75	512428	72.254	ug/l	97
55) 1,1,2-Trichloroethane	8.64	97	237898	73.594	ug/l	97
56) Ethyl methacrylate	8.75	69	268580	69.872	ug/l	99
57) 1,3-Dichloropropane	8.99	76	385092	72.462	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	373337	376.964	ug/l	92
59) 2-Hexanone	9.62	43	645676	340.012	ug/l	100
60) Dibromochloromethane	8.86	129	315855	71.016	ug/l	100
61) 1,2-Dibromoethane	9.13	107	251740	72.790	ug/l	99
64) Tetrachloroethene	8.30	164	320310	72.653	ug/l	98
65) Chlorobenzene	9.94	112	809478	72.087	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	325568	70.228	ug/l	97
67) Ethyl Benzene	10.03	91	1384342	66.506	ug/l	100
68) m/p-Xylenes	10.26	106	1066000	139.092	ug/l	93
69) o-Xylene	10.81	106	582757	70.246	ug/l	98
70) Styrene	10.89	104	824140	68.338	ug/l	99
71) Bromoform	10.87	173	175502	72.290	ug/l #	96
73) Isopropylbenzene	11.22	105	1550928	69.177	ug/l	96
74) N-amyl acetate	11.45	43	377193	64.548	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	284721	71.291	ug/l	98
76) 1,2,3-Trichloropropane	11.87	75	196866	72.748	ug/l	97
77) Bromobenzene	11.58	156	331135	71.020	ug/l	87
78) n-propylbenzene	11.67	91	1711612	67.165	ug/l	98
79) 2-Chlorotoluene	11.80	91	1017077	67.708	ug/l	93
80) 1,3,5-Trimethylbenzene	11.90	105	1267895	67.808	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.94	75	93033m	63.888	ug/l	
82) 4-Chlorotoluene	11.98	91	986163	66.991	ug/l	94
83) tert-Butylbenzene	12.19	119	1252462	67.456	ug/l	96
84) 1,2,4-Trimethylbenzene	12.27	105	1225313	67.523	ug/l	95
85) sec-Butylbenzene	12.37	105	1628921	66.719	ug/l	95
86) p-Isopropyltoluene	12.52	119	1391999	66.925	ug/l	98
87) 1,3-Dichlorobenzene	12.54	146	581769	68.198	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	574339	69.055	ug/l	98
89) n-Butylbenzene	12.89	91	1301945	62.540	ug/l	99
90) Hexachloroethane	12.97	117	363855	71.415	ug/l	93
91) 1,2-Dichlorobenzene	13.00	146	553180	67.572	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.69	75	52054	72.367	ug/l	69

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ClientSampleId :
VSTDICC075

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QLast Update : Wed Apr 17 07:22:58 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	417942	67.975	ug/l	98
94) Hexachlorobutadiene	14.22	225	285027	71.133	ug/l	99
95) Naphthalene	14.49	128	797903	74.280	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	401252	70.047	ug/l	98

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

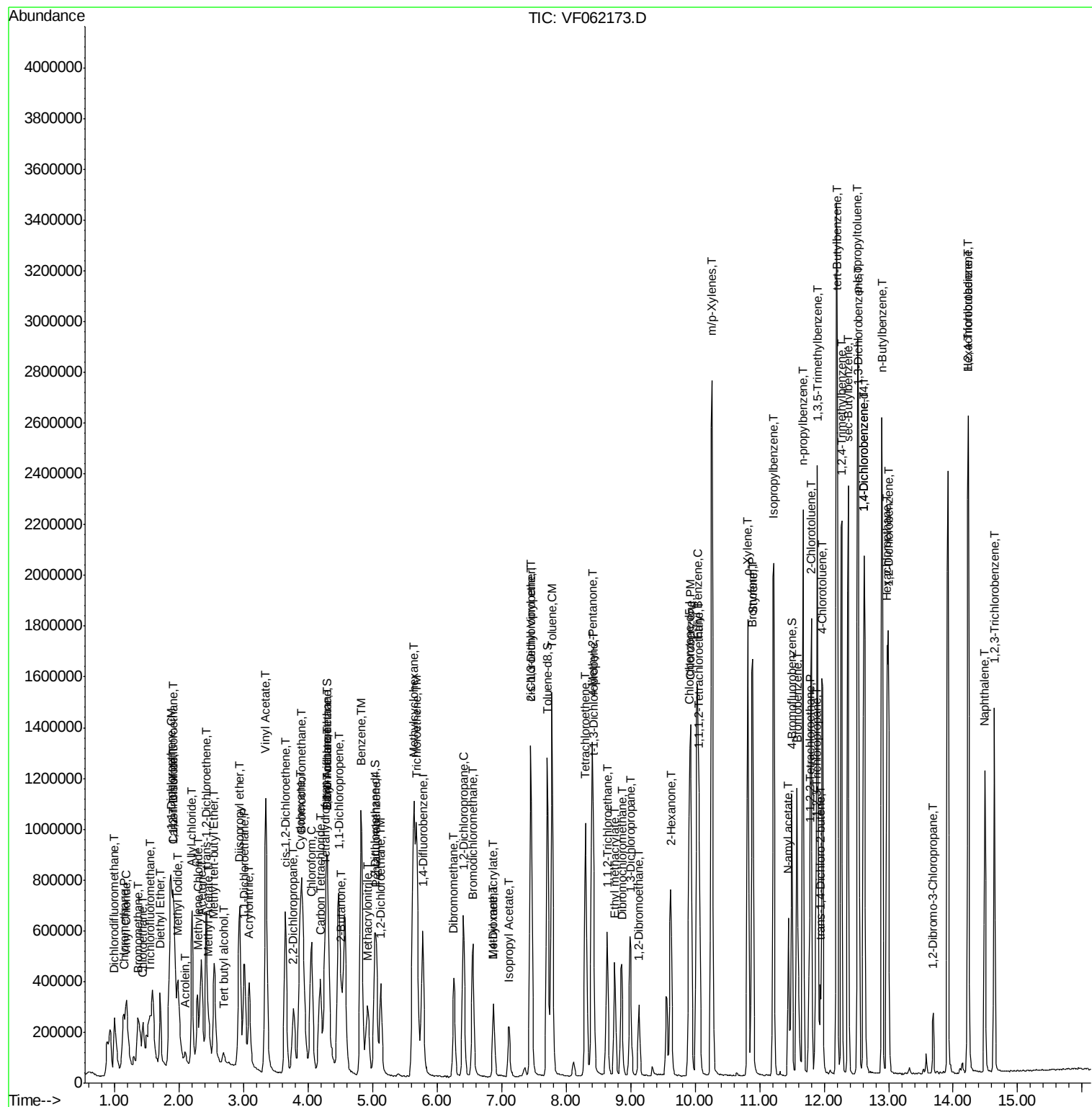
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 Acq On : 16 Apr 2019 12:45
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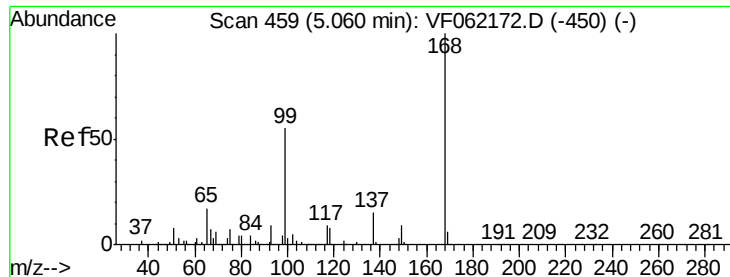
Instrument :
 MSVOA_F
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 423806

Ion Ratio Lower Upper

168 100

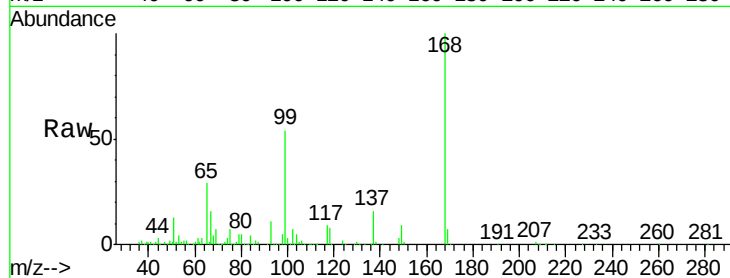
99 54.2 44.2 66.4

Manual Integrations

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4/17/2019 11:50:25 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

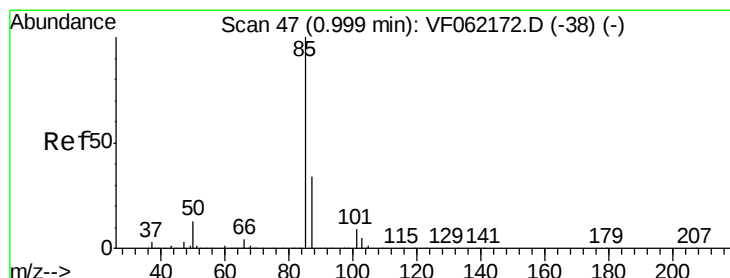
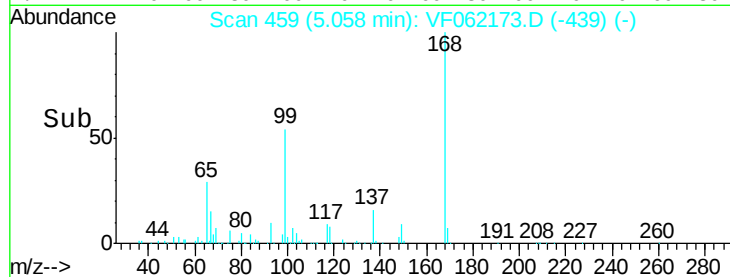
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 70.524 ug/l

RT: 1.00 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF062173.D

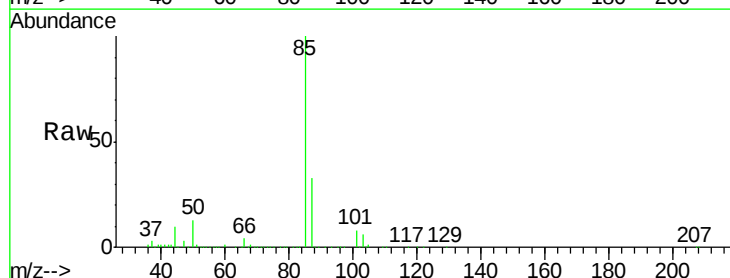
Acq: 16 Apr 2019 12:45

Tgt Ion: 85 Resp: 439293

Ion Ratio Lower Upper

85 100

87 32.8 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

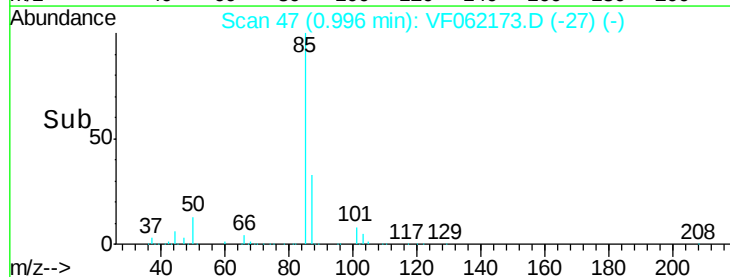
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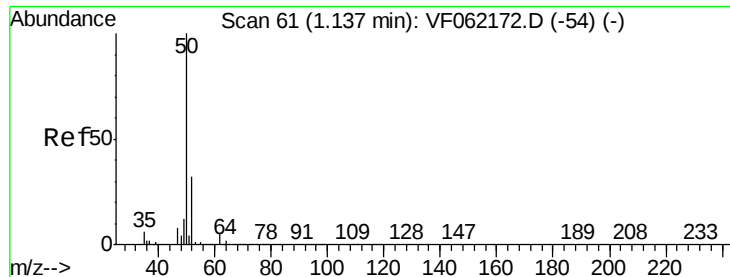
100000

50000

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Time-->





#3

Chloromethane

Concen: 73.419 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 50 Resp: 491575

Ion Ratio Lower Upper

50 100

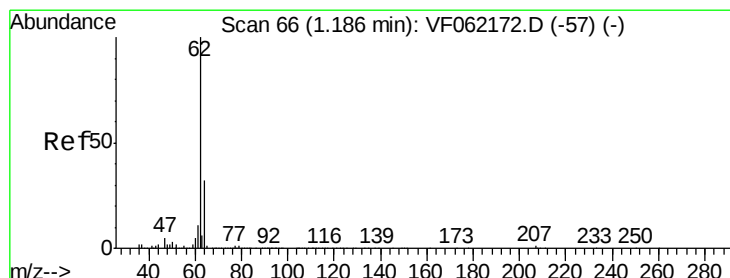
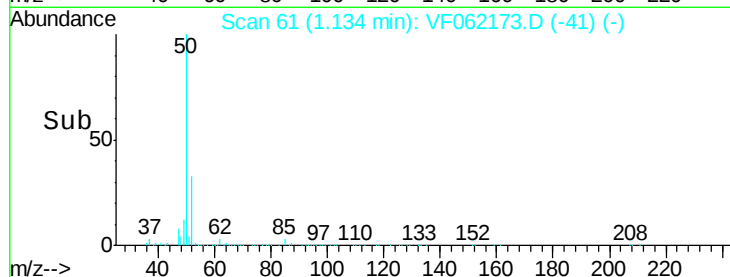
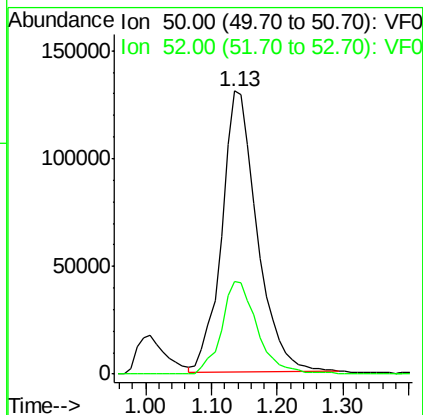
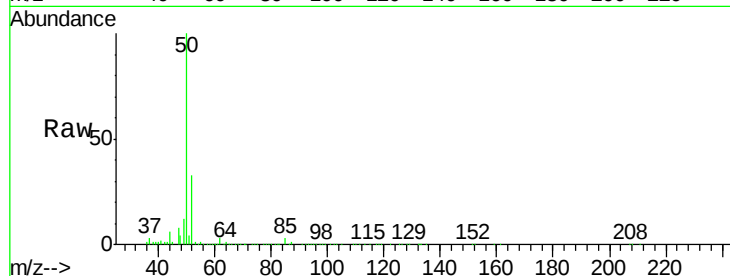
52 32.7 25.4 38.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 73.226 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.00 min

Lab File: VF062173.D

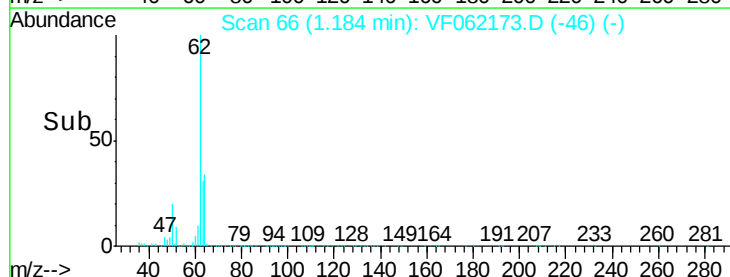
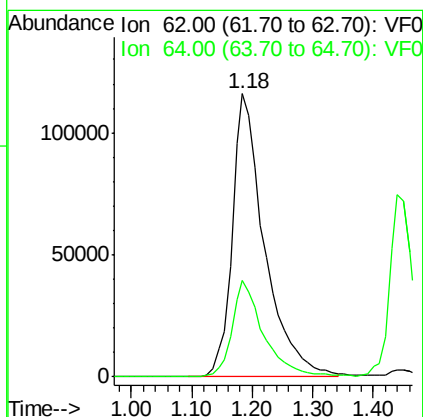
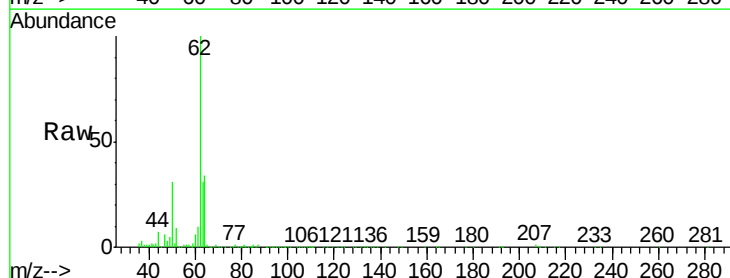
Acq: 16 Apr 2019 12:45

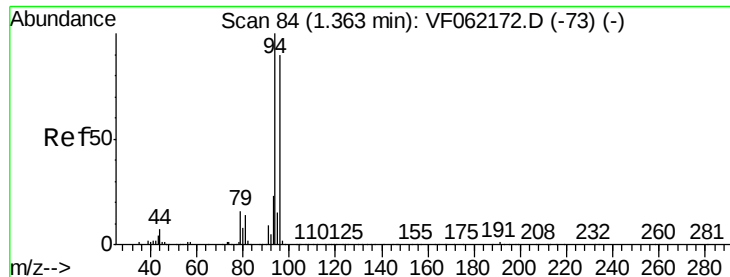
Tgt Ion: 62 Resp: 429246

Ion Ratio Lower Upper

62 100

64 34.0 25.4 38.0





#5

Bromomethane

Concen: 73.964 ug/l

RT: 1.36 min Scan# 84

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 94 Resp: 278280

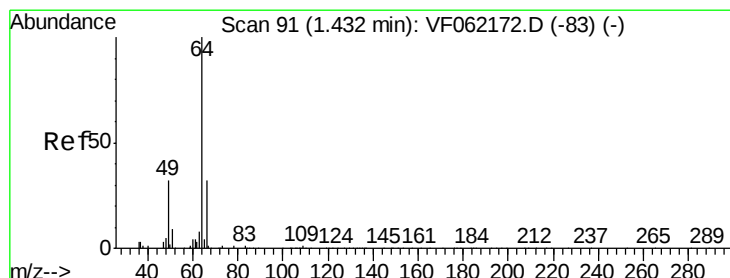
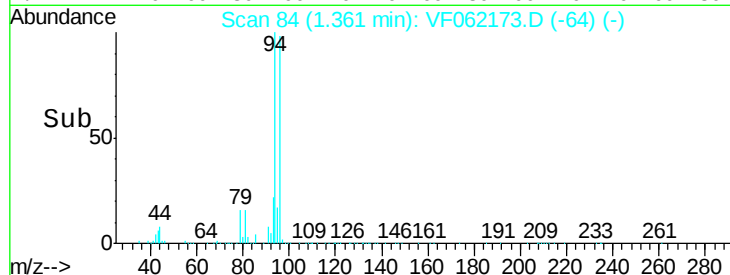
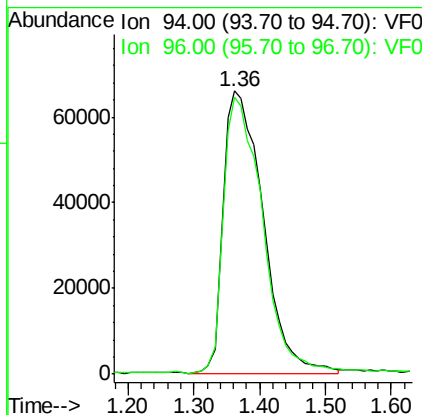
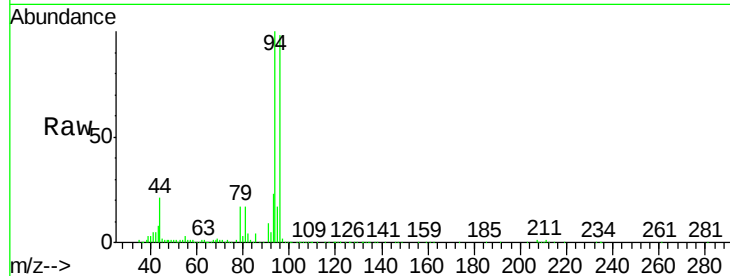
Ion Ratio Lower Upper

94 100

96 97.7 72.3 108.5

Manual Integrations
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#6

Chloroethane

Concen: 73.073 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.01 min

Lab File: VF062173.D

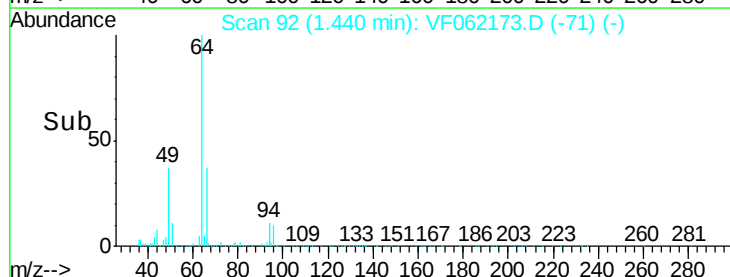
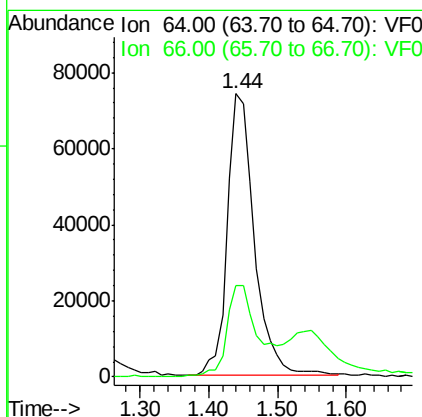
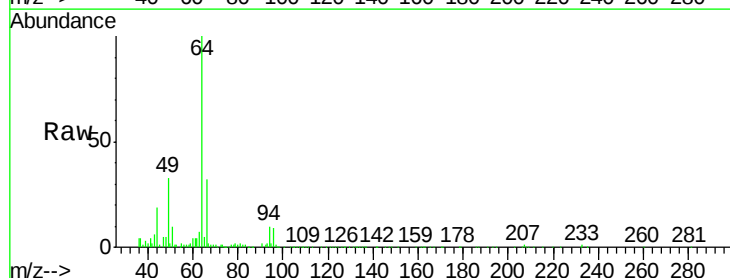
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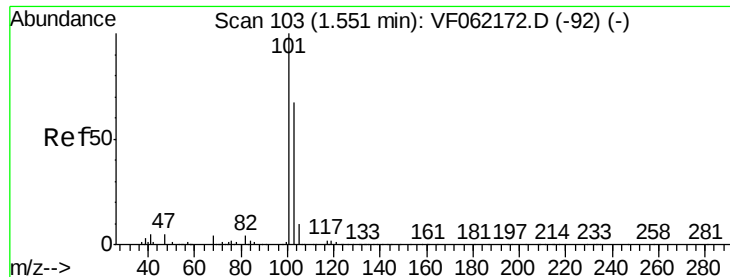
Tgt Ion: 64 Resp: 202661

Ion Ratio Lower Upper

64 100

66 32.1 25.7 38.5





#7

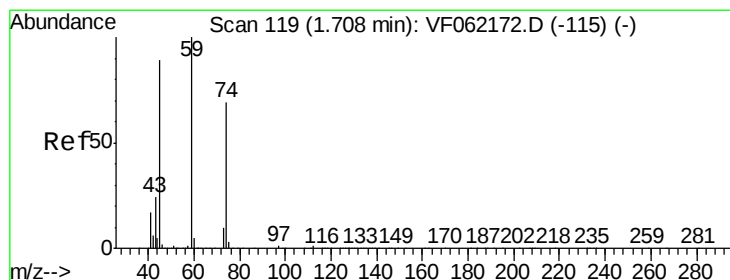
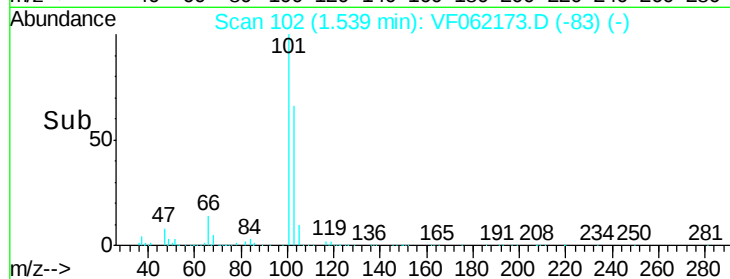
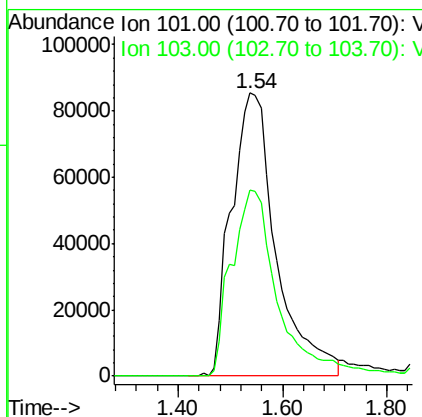
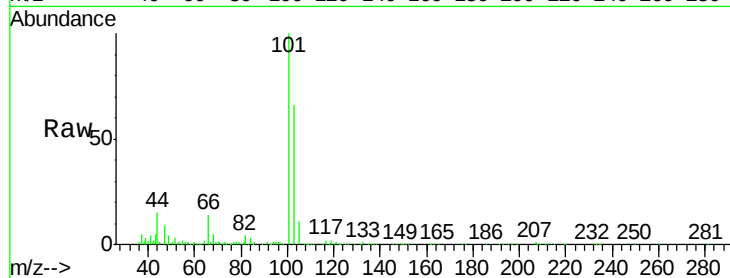
Trichlorofluoromethane
Concen: 71.481 ug/l
RT: 1.54 min Scan# 102
Delta R.T. -0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		499704		
103	65.7	53.7	80.5		

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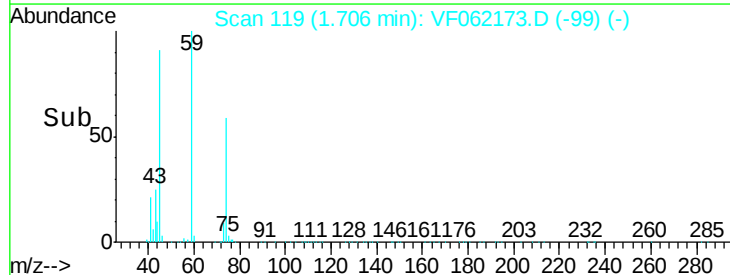
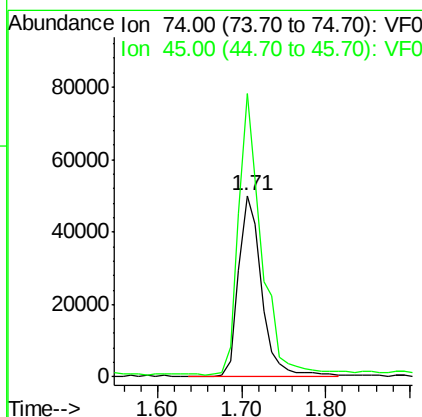
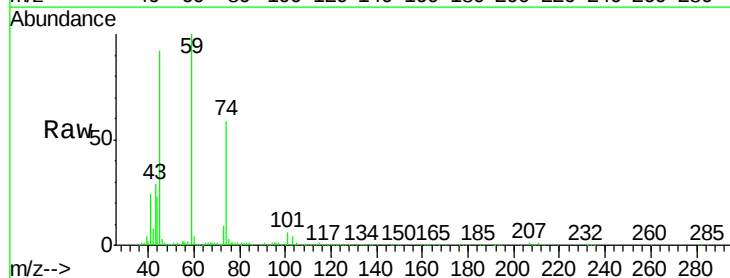
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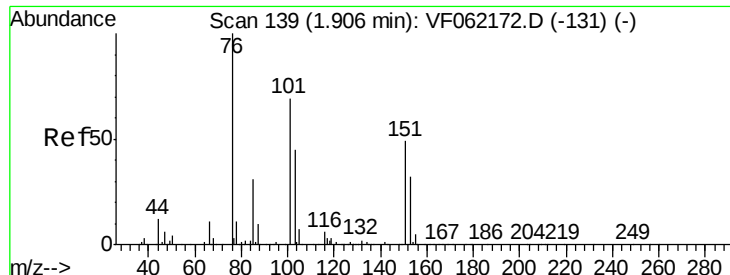


#8

Diethyl Ether
Concen: 68.559 ug/l
RT: 1.71 min Scan# 119
Delta R.T. -0.00 min
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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		96690		
45	156.3	64.7	194.1		





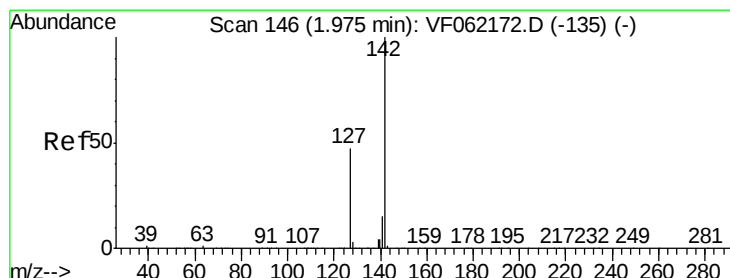
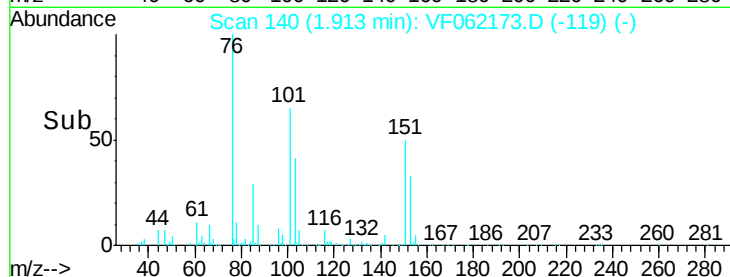
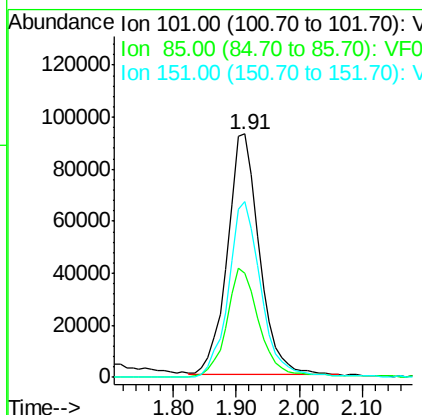
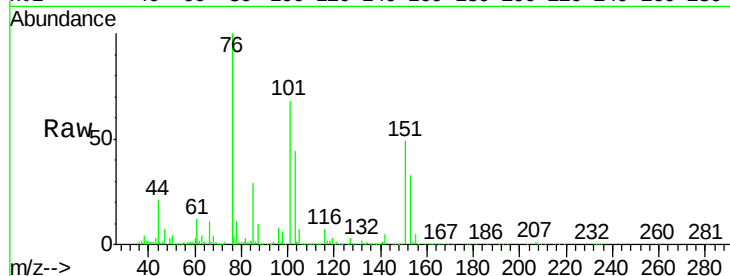
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 70.252 ug/l
 RT: 1.91 min Scan# 140
 Delta R.T. 0.01 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
101	100	321462		
85	42.9	35.2	52.8	
151	72.4	56.6	85.0	

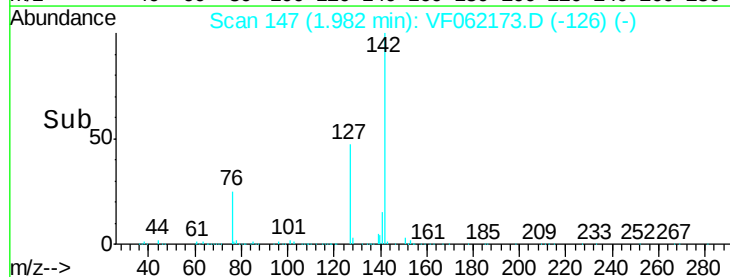
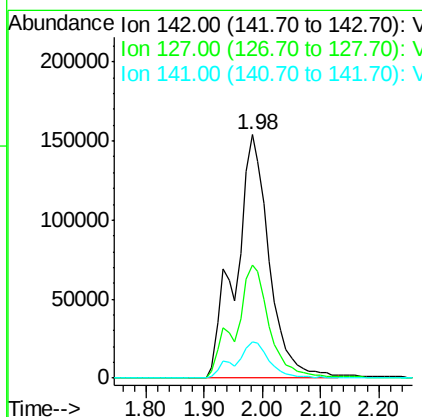
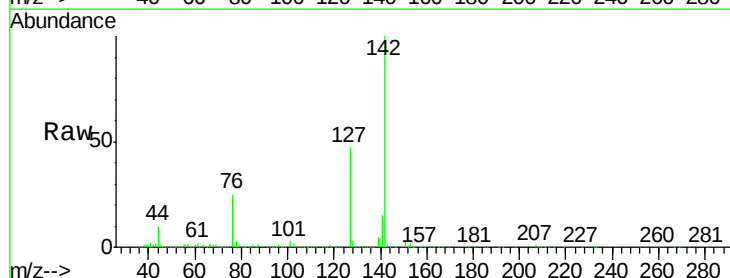
Manual Integrations
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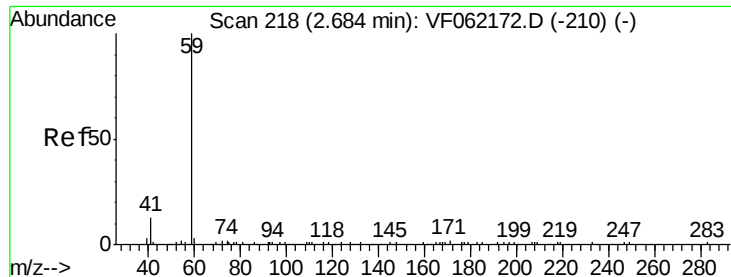
MMDadoda
 4/17/2019 11:50:25 AM



#10
 Methyl Iodide
 Concen: 72.797 ug/l
 RT: 1.98 min Scan# 147
 Delta R.T. 0.01 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	620932		
127	46.7	37.8	56.6	
141	15.0	12.1	18.1	





#11

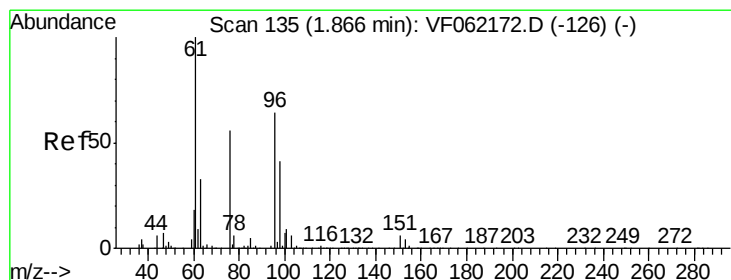
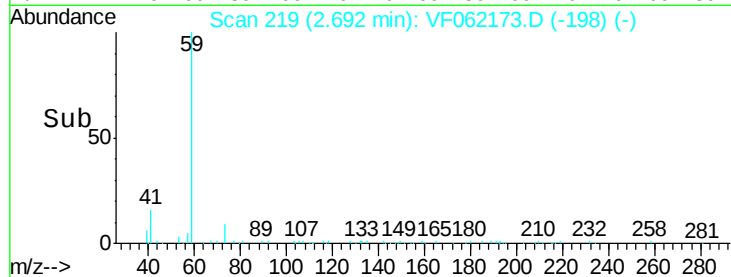
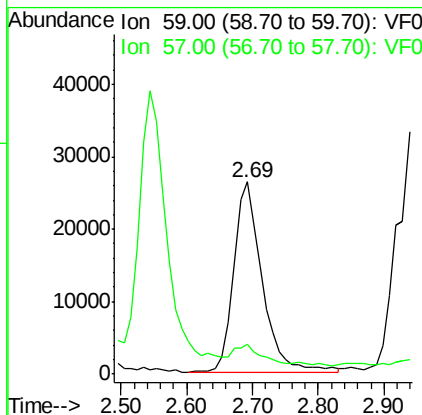
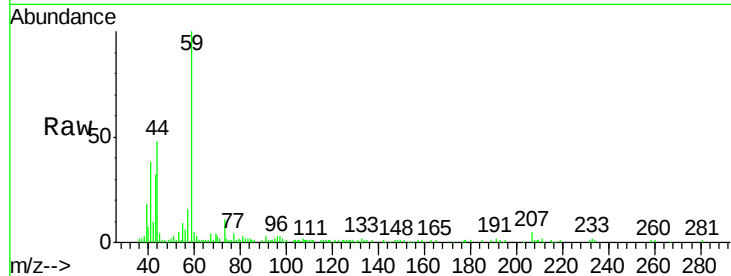
Tert butyl alcohol
Concen: 382.165 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	59	Resp	80882
Ion Ratio	100	Lower	Upper
57	15.7	14.2	21.4

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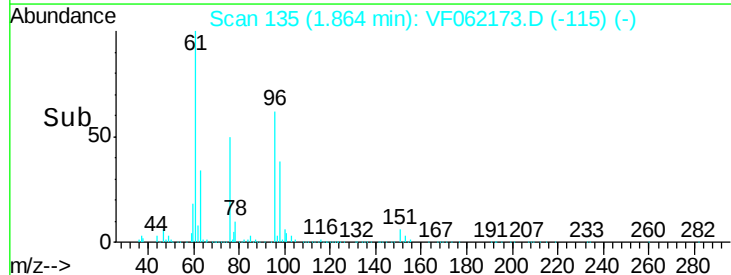
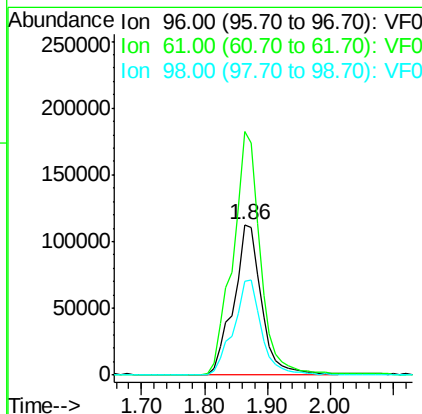
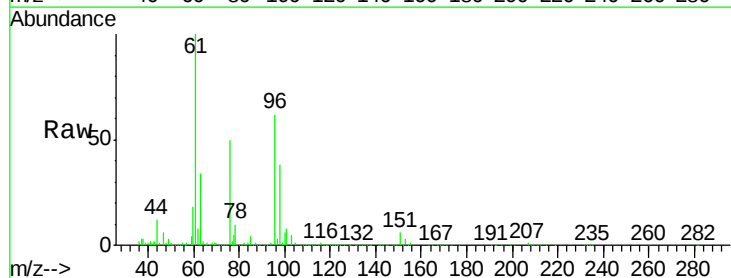
MMDadoda
4/17/2019 11:50:25 AM

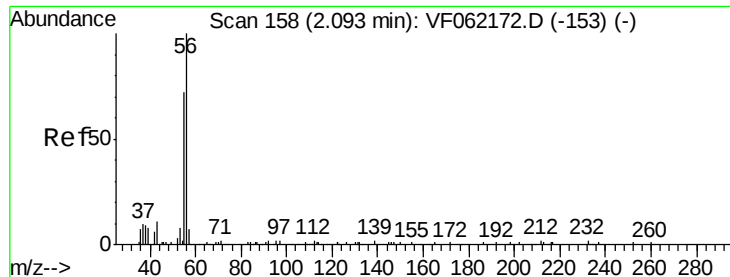


#12

1,1-Dichloroethene
Concen: 73.130 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	96	Resp	340307
Ion Ratio	100	Lower	Upper
61	161.8	124.6	187.0
98	62.2	51.5	77.3





#13

Acrolein

Concen: 245.924 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 56 Resp: 40583

Ion Ratio Lower Upper

56 100

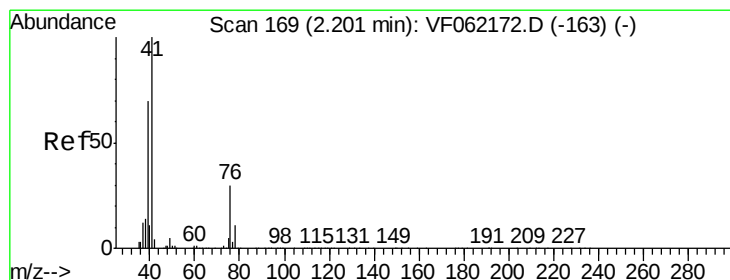
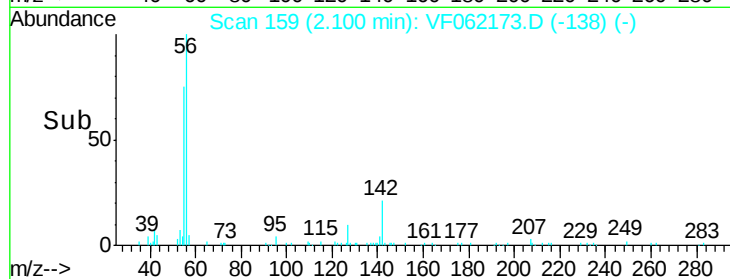
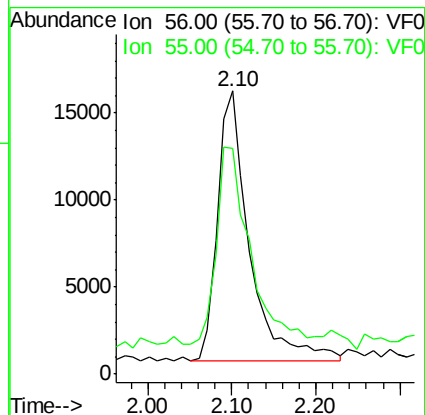
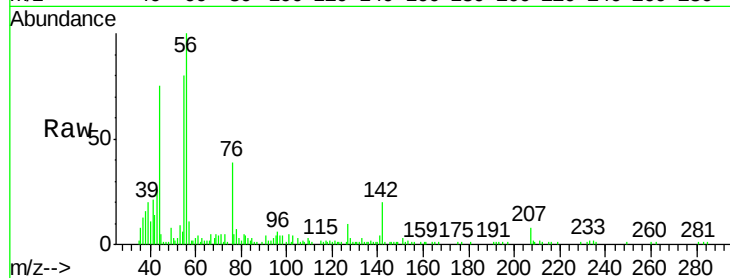
55 79.6 62.9 94.3

Manual Integrations

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#14

Allyl chloride

Concen: 65.863 ug/l

RT: 2.20 min Scan# 169

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

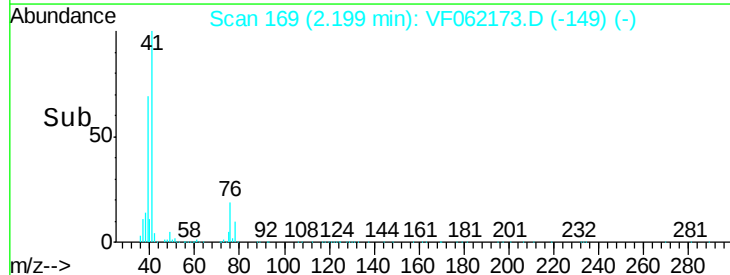
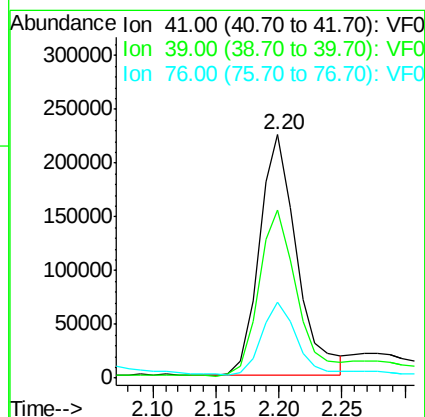
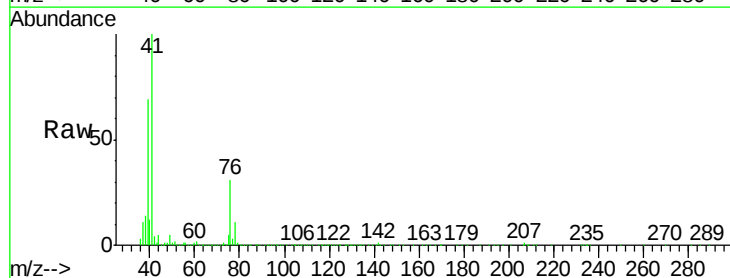
Tgt Ion: 41 Resp: 461508

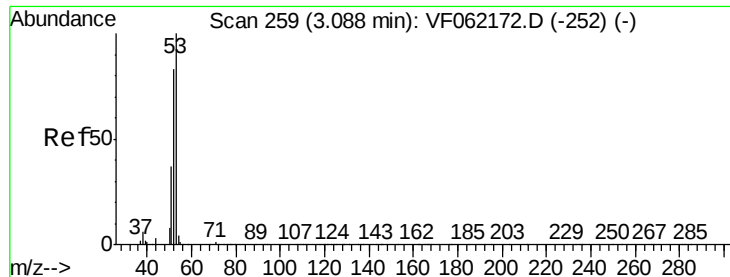
Ion Ratio Lower Upper

41 100

39 69.1 56.1 84.1

76 31.4 24.9 37.3





#15

Acrylonitrile

Concen: 416.509 ug/l

RT: 3.09 min Scan# 259

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

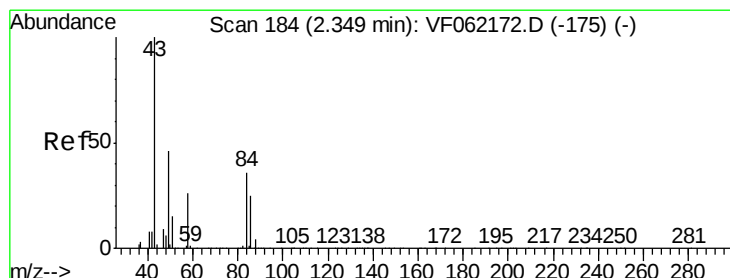
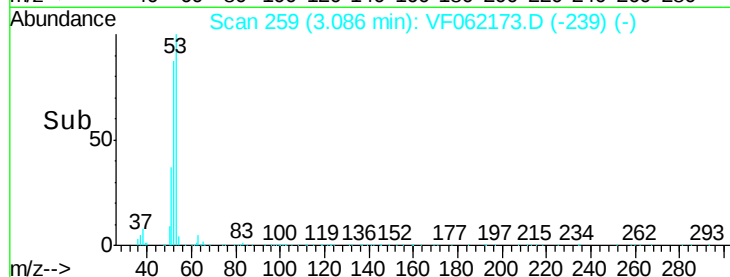
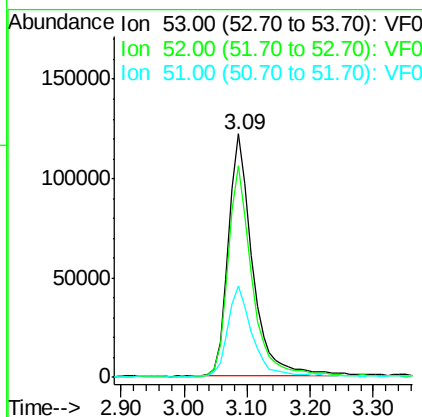
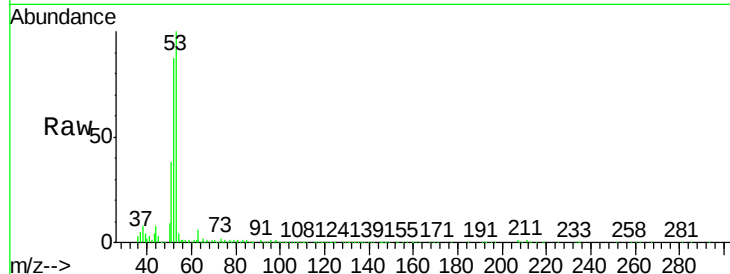
ClientSampleId :

VSTDIC075

Tot Ion:	53	Resp:	324582
Ion Ratio	Lower	Upper	
53	100		
52	87.1	66.6	99.8
51	37.5	30.1	45.1

Manual Integrations
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#16

Acetone

Concen: 369.698 ug/l

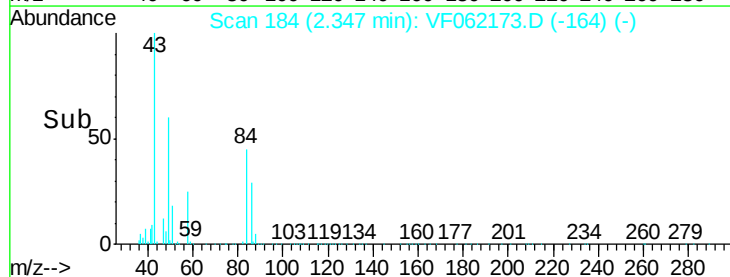
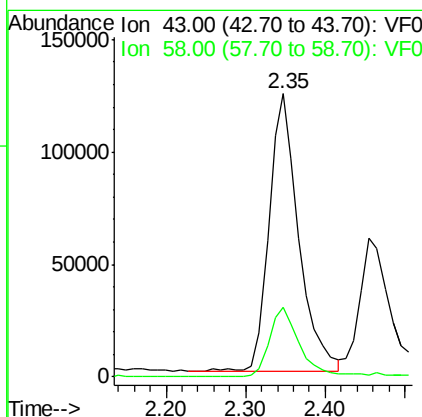
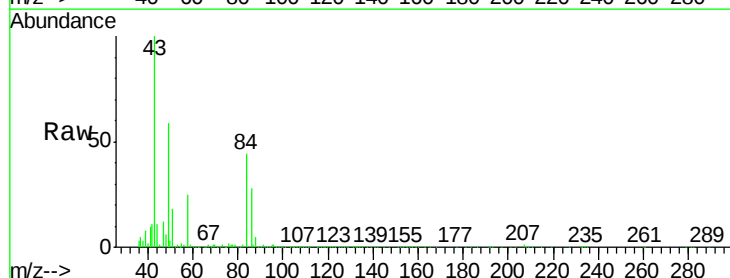
RT: 2.35 min Scan# 184

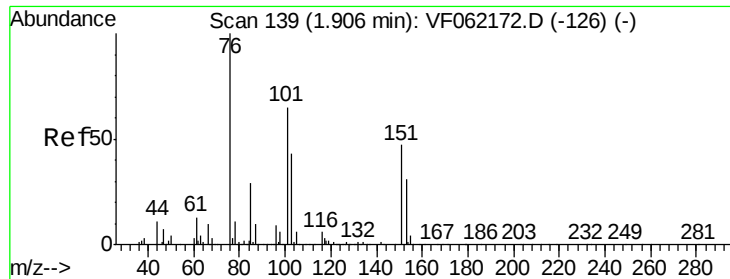
Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	43	Resp:	318256
Ion Ratio	Lower	Upper	
43	100		
58	24.8	20.2	30.2





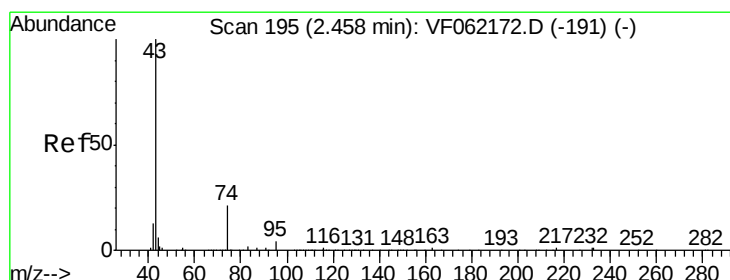
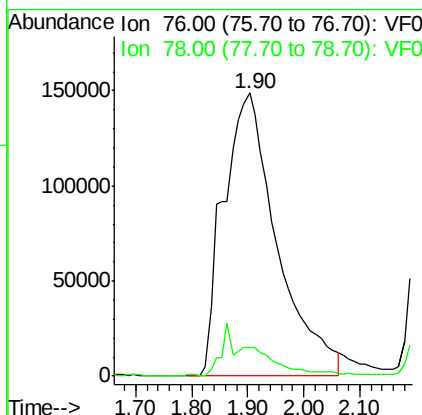
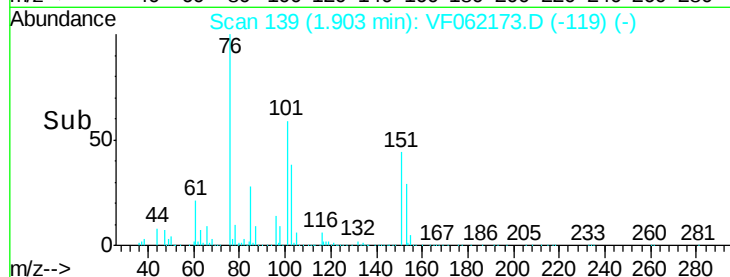
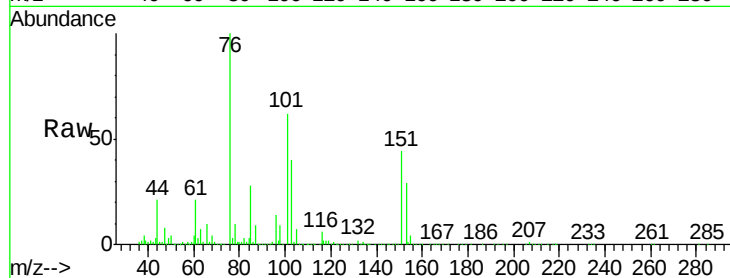
#17
Carbon Disulfide
Concen: 74.531 ug/l
RT: 1.90 min Scan# 139
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 76 Resp: 986366
Ion Ratio Lower Upper
76 100
78 10.3 9.1 13.7

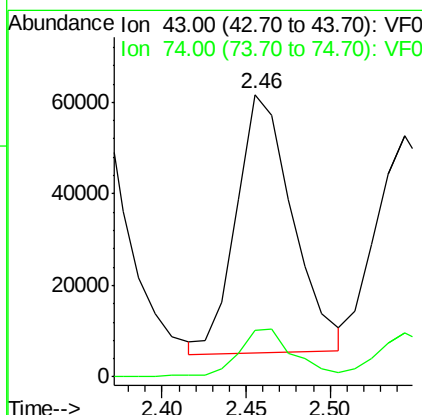
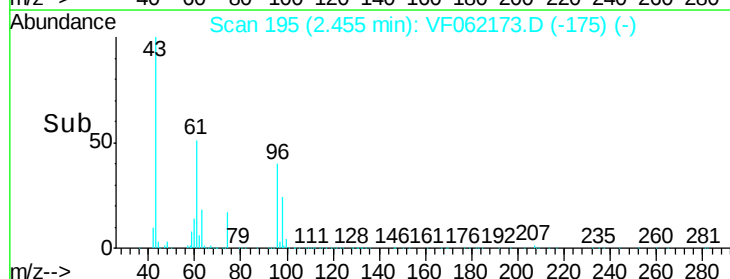
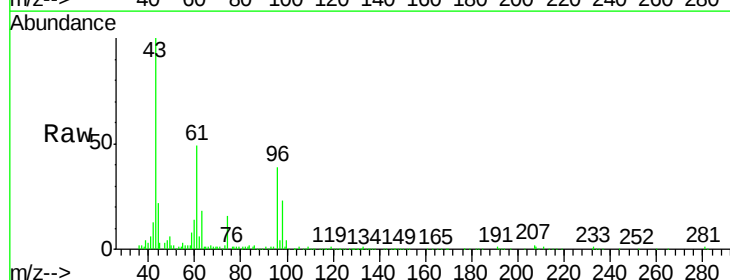
Manual Integrations
APPROVED

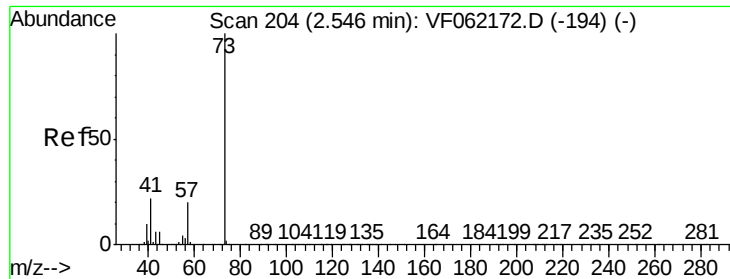
MMDadoda
4/17/2019 11:50:25 AM



#18
Methyl Acetate
Concen: 64.295 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion: 43 Resp: 131318
Ion Ratio Lower Upper
43 100
74 16.4 14.2 21.4





#19

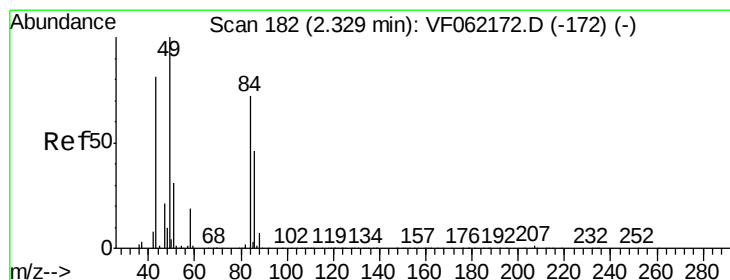
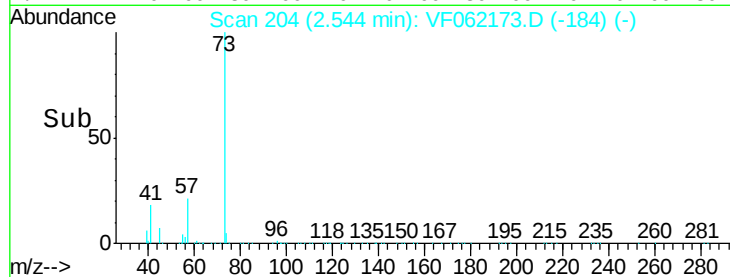
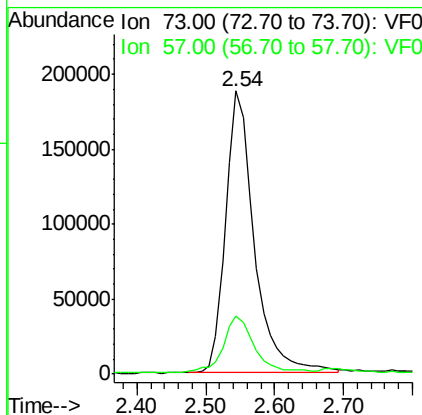
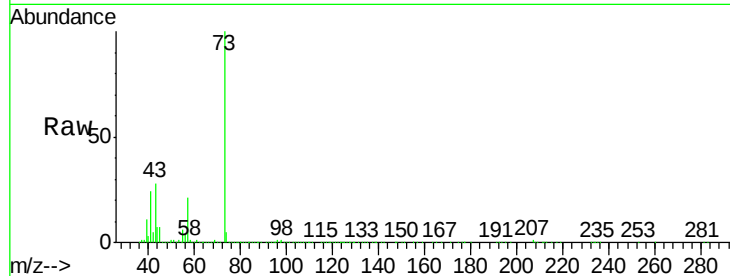
Methyl tert-butyl Ether
 Concen: 70.419 ug/l
 RT: 2.54 min Scan# 204
 Delta R.T. -0.00 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.7	16.8	25.2

Manual Integrations
 APPROVED

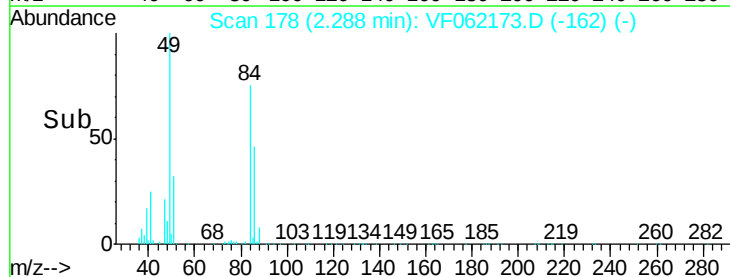
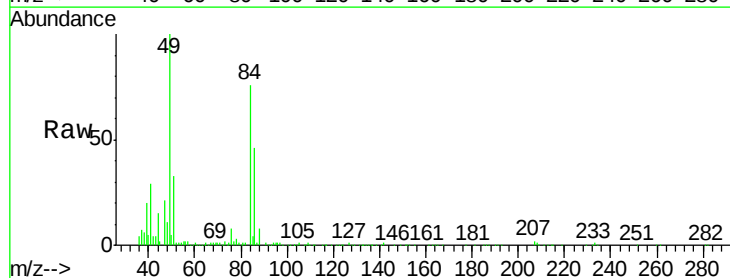
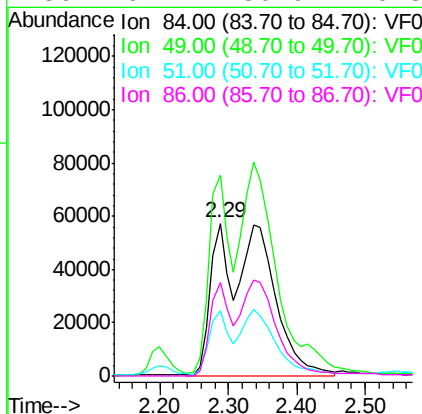
MMDadoda
 4/17/2019 11:50:25 AM

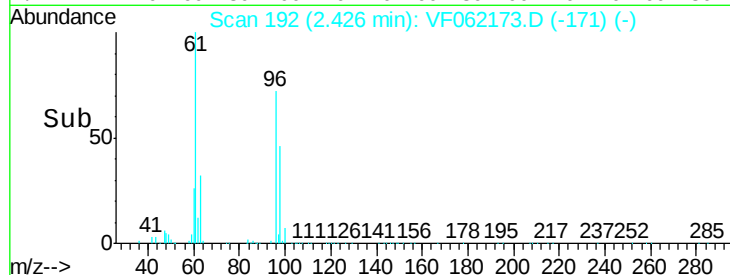
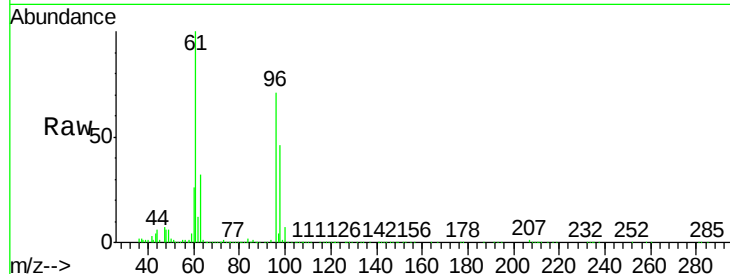
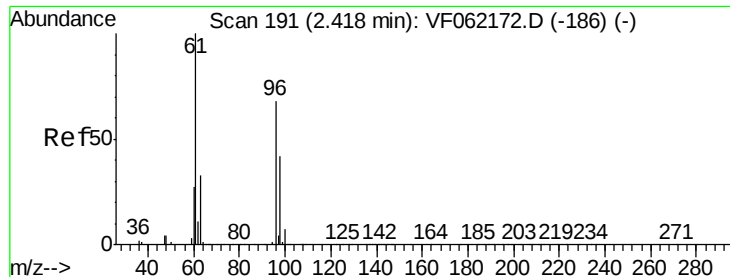


#20

Methylene Chloride
 Concen: 62.989 ug/l m
 RT: 2.29 min Scan# 178
 Delta R.T. -0.04 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	132.3	111.5	167.3
51	43.0	34.9	52.3
86	61.2	50.9	76.3





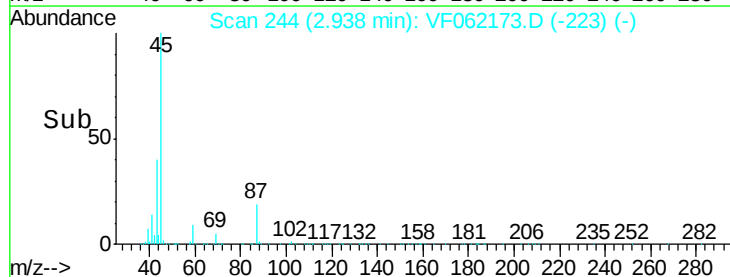
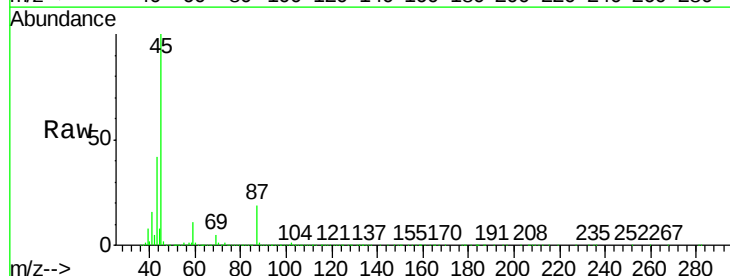
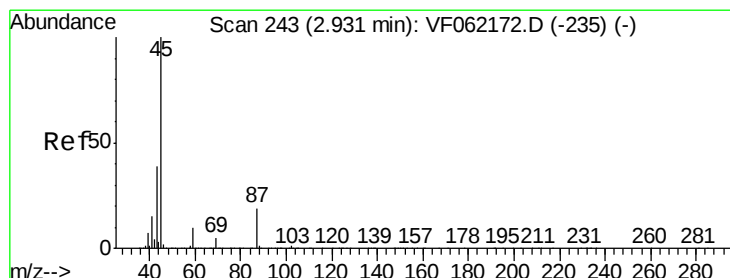
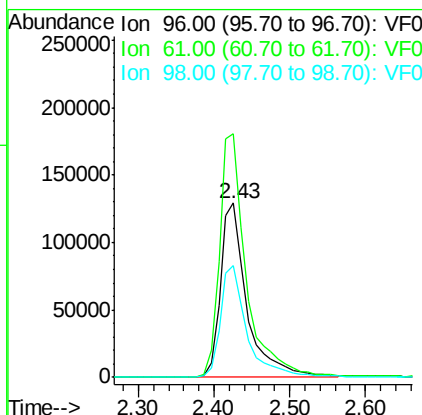
#21
trans-1,2-Dichloroethene
Concen: 69.666 ug/l
RT: 2.43 min Scan# 192
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tot Ion:	96	Resp:	310182
Ion Ratio	Lower	Upper	
96	100		
61	139.9	117.4	176.2
98	64.1	49.8	74.8

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

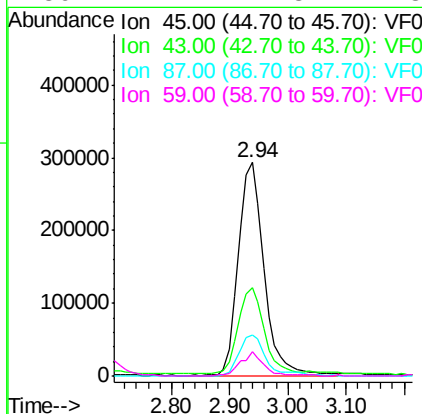
Manual Integrations
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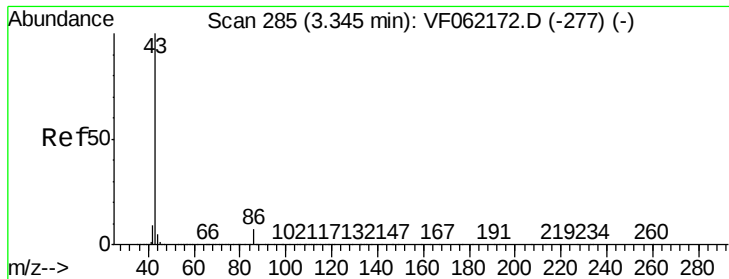
MMDadoda
4/17/2019 11:50:25 AM



#22
Diisopropyl ether
Concen: 69.228 ug/l
RT: 2.94 min Scan# 244
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion:	45	Resp:	901677
Ion Ratio	Lower	Upper	
45	100		
43	41.6	32.5	48.7
87	19.1	14.9	22.3
59	11.4	7.8	11.8





#23

Vinyl Acetate

Concen: 367.613 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 2388390

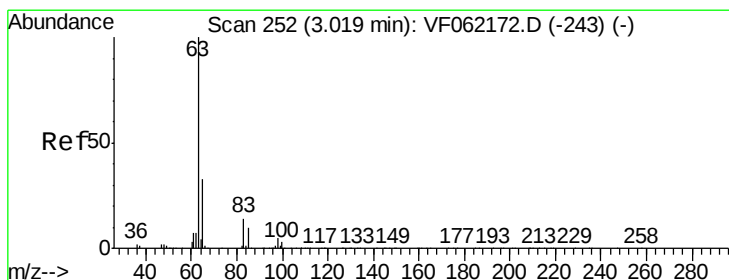
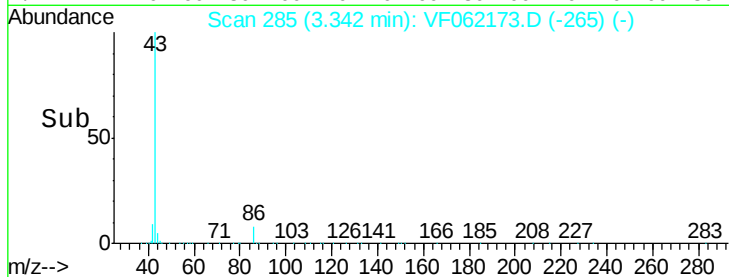
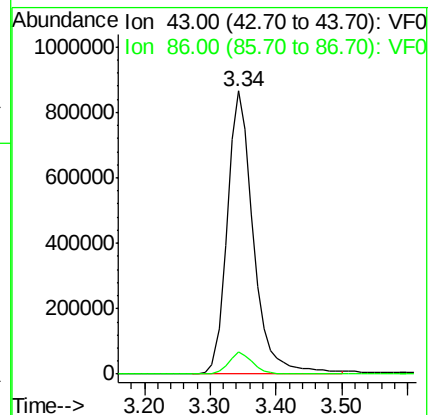
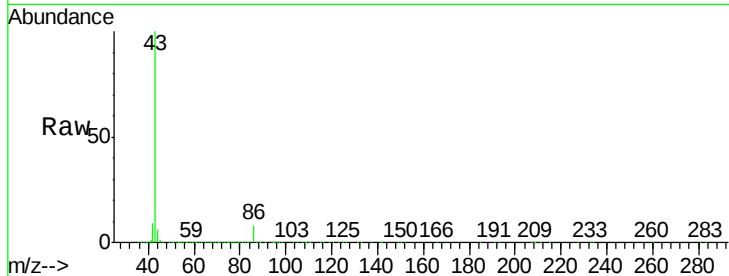
Ion Ratio Lower Upper

43 100

86 7.9 5.9 8.9

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 74.077 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

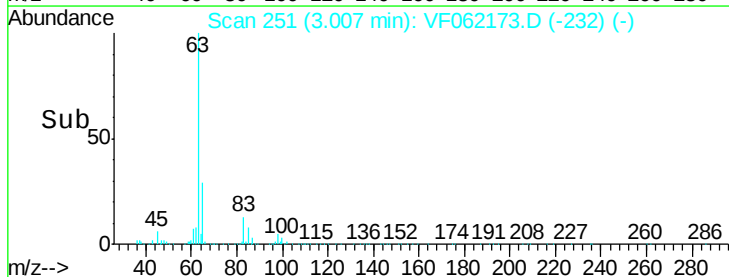
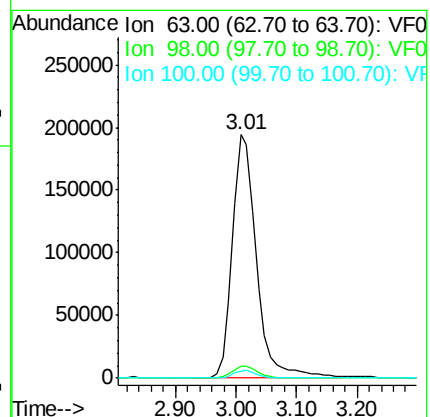
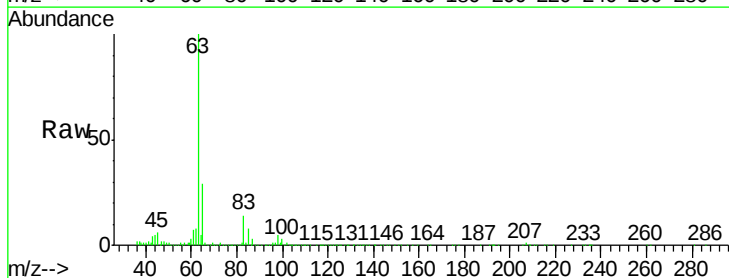
Tgt Ion: 63 Resp: 537288

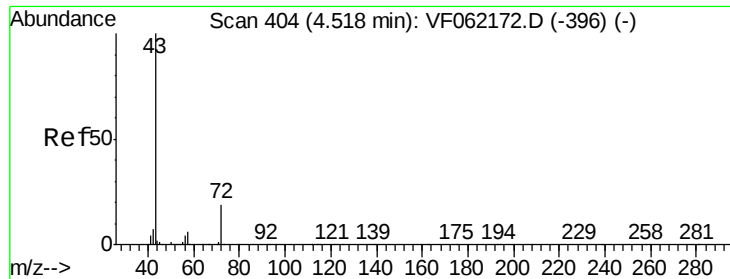
Ion Ratio Lower Upper

63 100

98 5.1 2.6 8.0

100 3.0 1.7 5.1





#25

2-Butanone

Concen: 369.222 ug/l

RT: 4.53 min Scan# 405

Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tot Ion: 43 Resp: 682989

Ion Ratio Lower Upper

43 100

72 19.1 15.4 23.2

Instrument :

MSVOA_F

ClientSampleId :

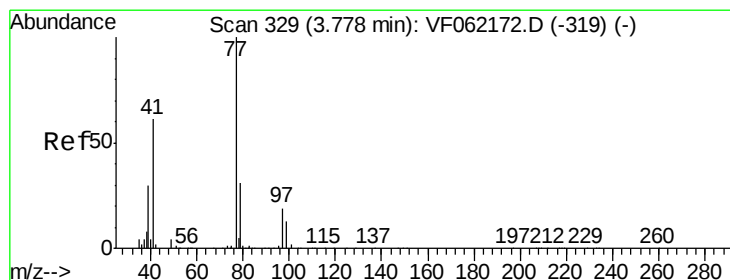
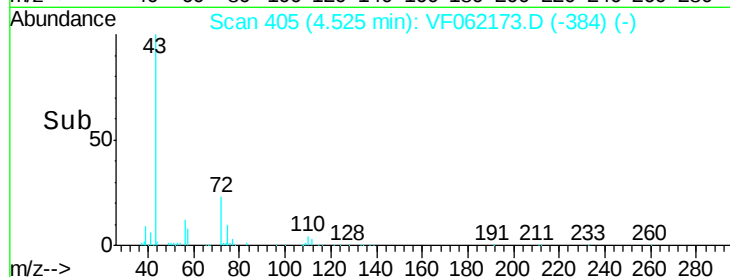
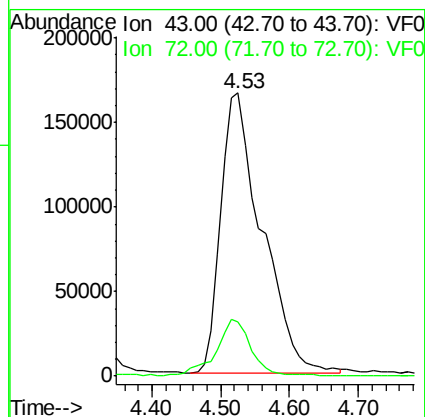
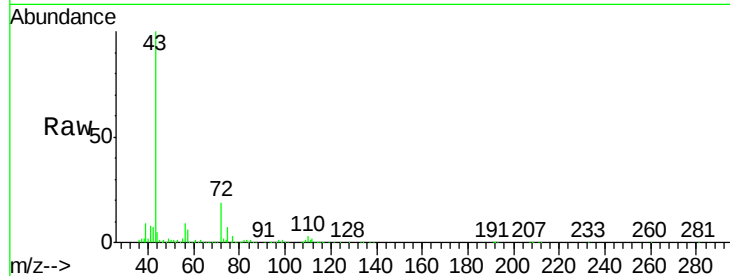
VSTDIC075

Manual Integrations

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4/17/2019 11:50:25 AM



#26

2,2-Dichloropropane

Concen: 70.936 ug/l

RT: 3.78 min Scan# 329

Delta R.T. -0.00 min

Lab File: VF062173.D

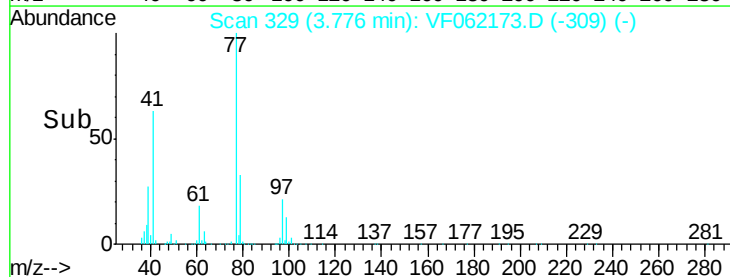
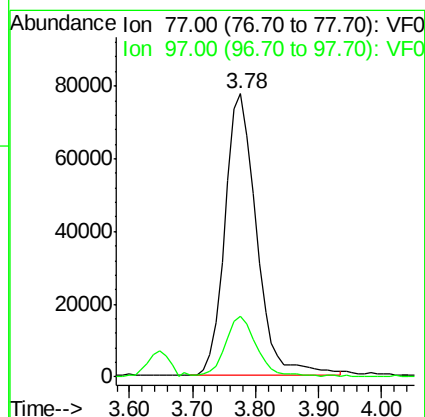
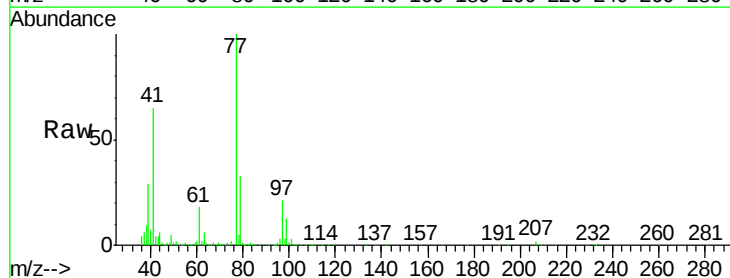
Acq: 16 Apr 2019 12:45

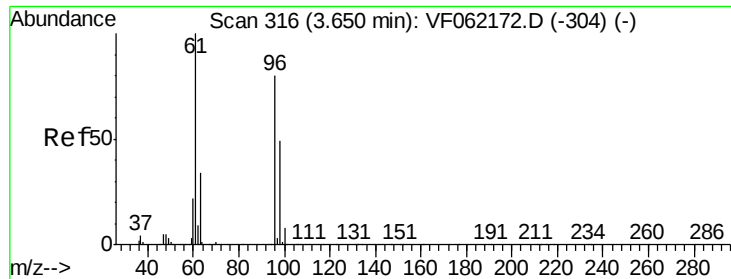
Tgt Ion: 77 Resp: 270622

Ion Ratio Lower Upper

77 100

97 21.4 10.3 30.9





#27

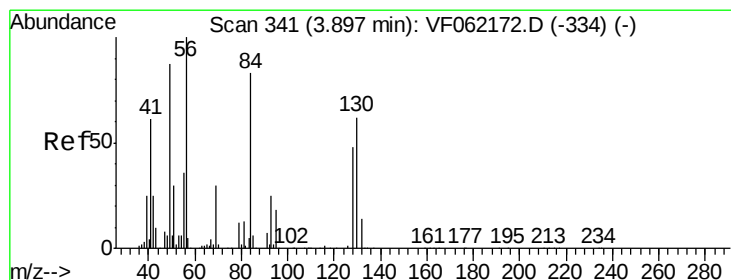
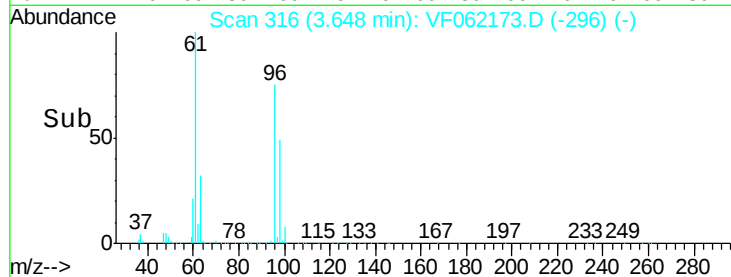
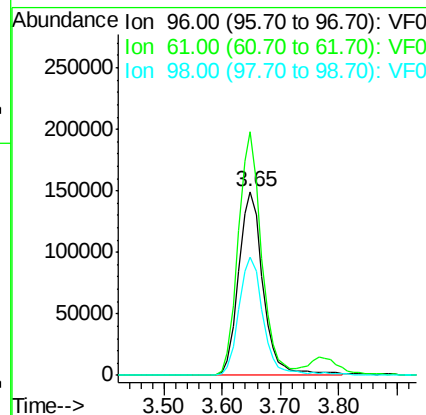
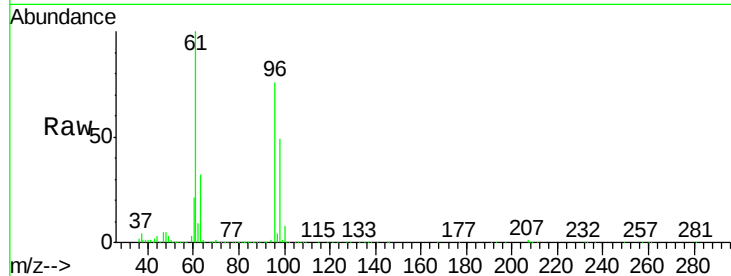
cis-1,2-Dichloroethene
Concen: 73.395 ug/l
RT: 3.65 min Scan# 316
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.3	0.0	248.2
98	64.5	0.0	122.4

Manual Integrations
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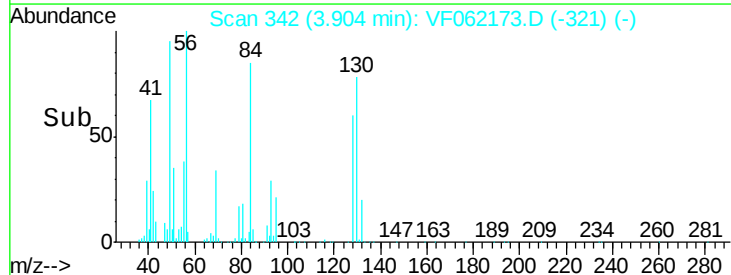
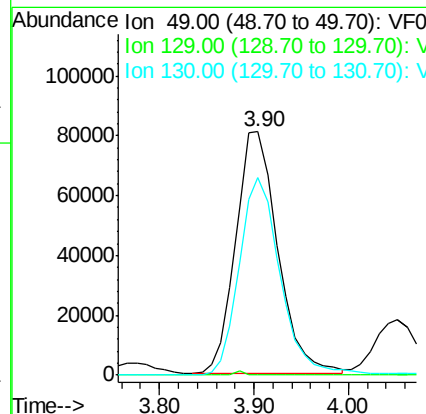
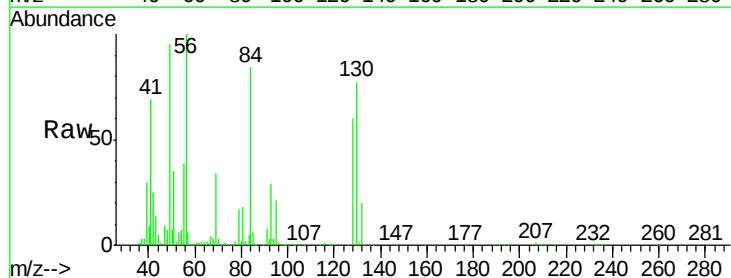
MMDadoda
4/17/2019 11:50:25 AM

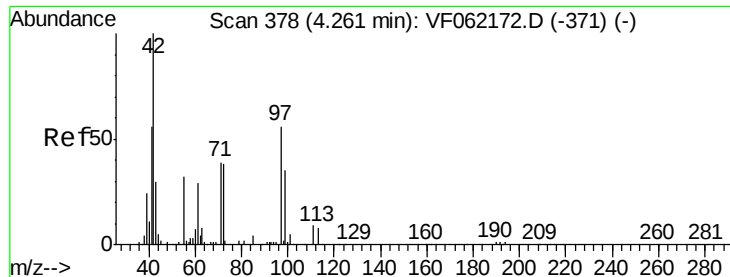


#28

Bromochloromethane
Concen: 71.972 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	81.2	56.5	84.7





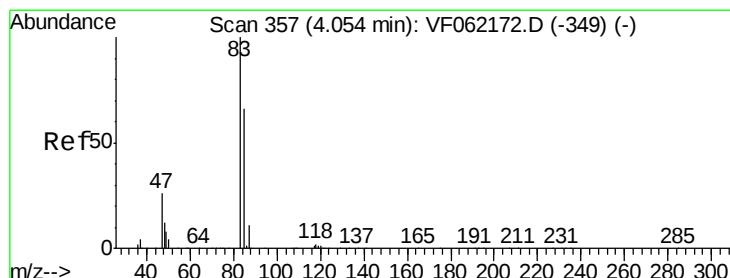
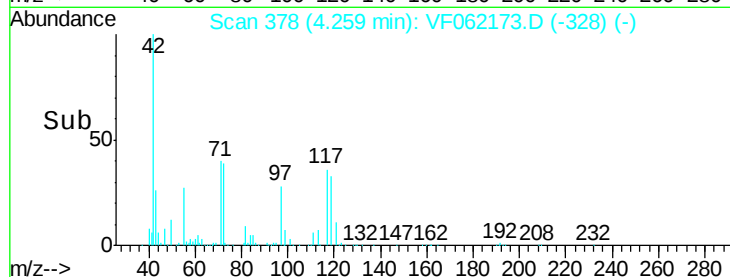
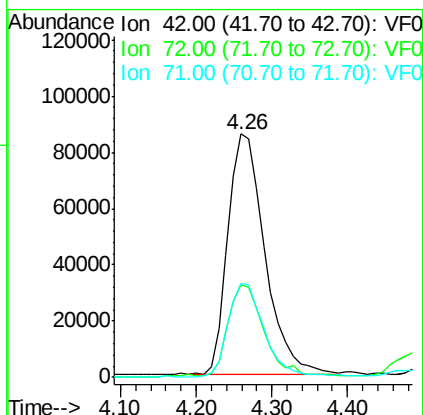
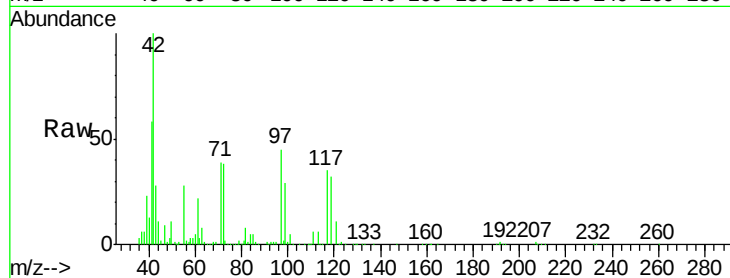
#29
Tetrahydrofuran
Concen: 354.290 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion:	42	Resp:	291411
Ion Ratio		Lower	Upper
42	100		
72	38.2	28.7	43.1
71	37.3	30.8	46.2

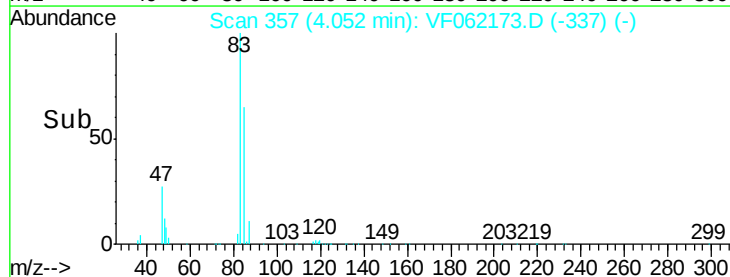
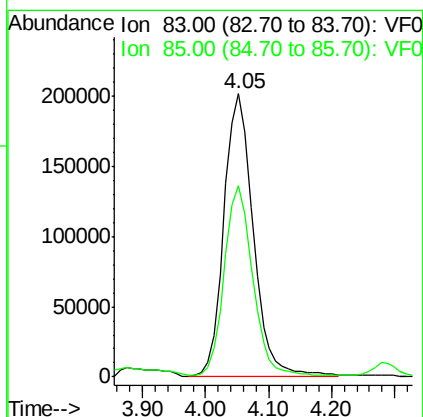
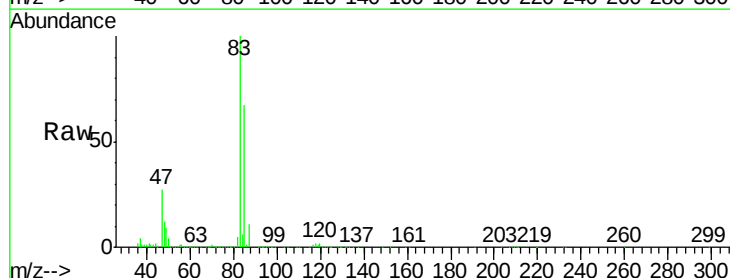
Manual Integrations
APPROVED

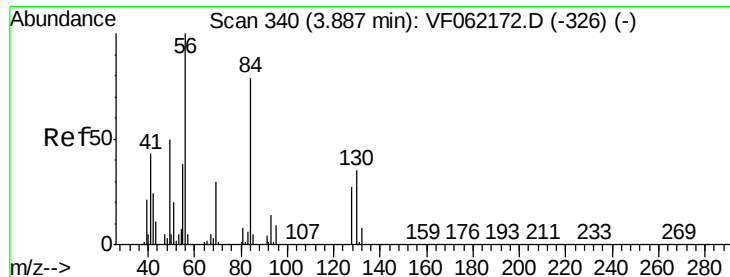
MMDadoda
4/17/2019 11:50:25 AM



#30
Chloroform
Concen: 72.765 ug/l
RT: 4.05 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion:	83	Resp:	656153
Ion Ratio		Lower	Upper
83	100		
85	67.4	53.5	80.3





#31

Cyclohexane

Concen: 72.943 ug/l

RT: 3.87 min Scan# 339

Delta R.T. -0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

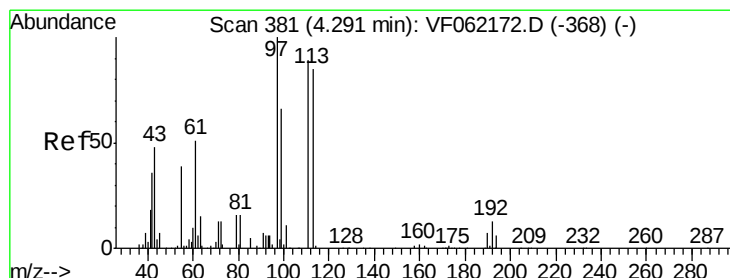
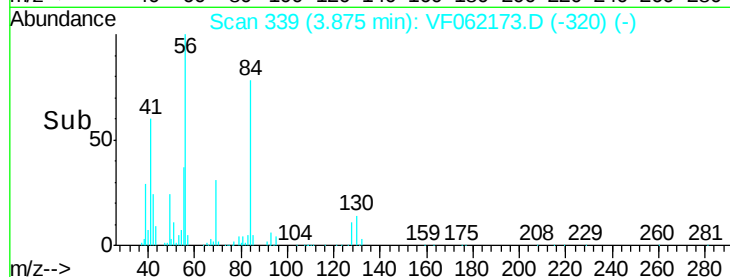
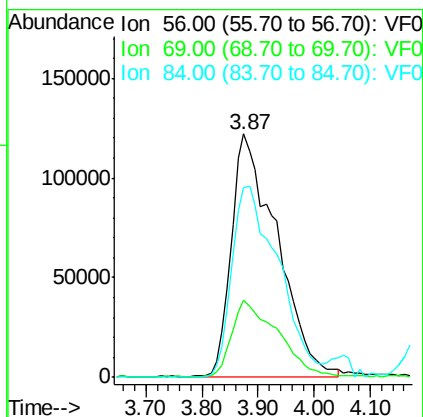
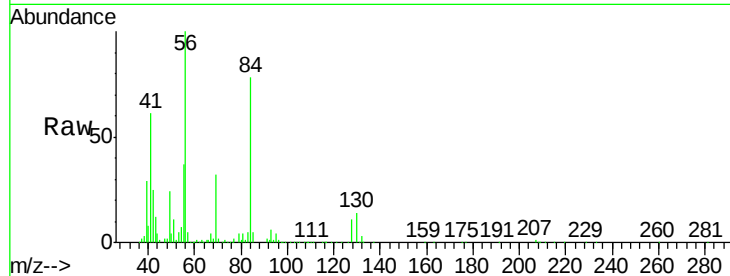
ClientSampleId :

VSTDIC075

Tot Ion:	56	Resp:	682967
Ion Ratio	Lower	Upper	
56	100		
69	31.6	24.4	36.6
84	78.0	63.4	95.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 69.931 ug/l

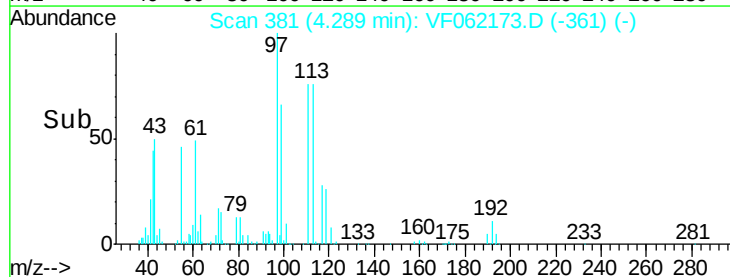
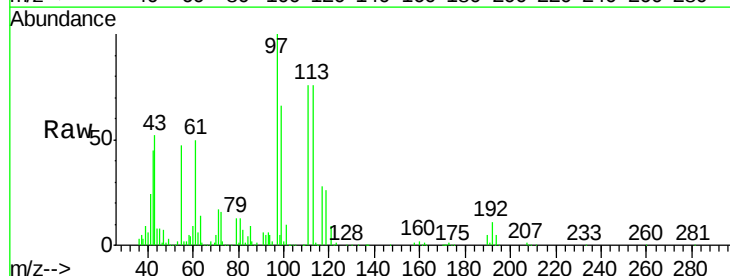
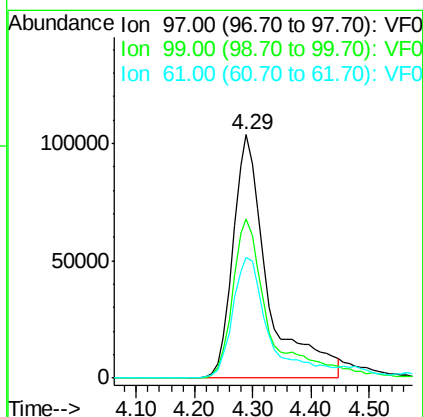
RT: 4.29 min Scan# 381

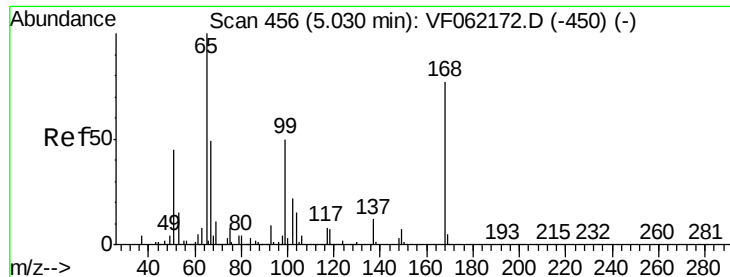
Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	97	Resp:	430004
Ion Ratio	Lower	Upper	
97	100		
99	65.6	52.3	78.5
61	49.6	40.9	61.3





#33

1,2-Dichloroethane-d4

Concen: 76.513 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 65 Resp: 292127

Ion Ratio Lower Upper

65 100

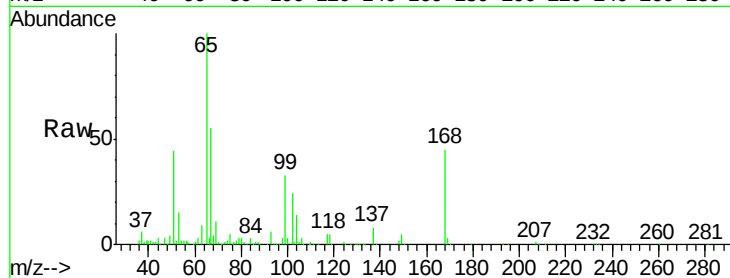
67 55.0 0.0 107.8

Manual Integrations

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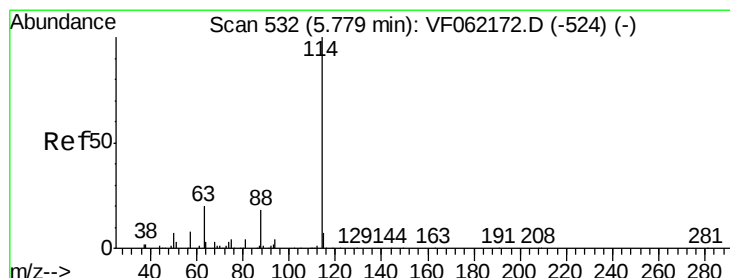
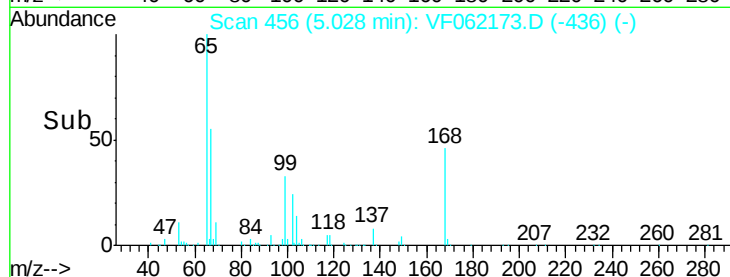
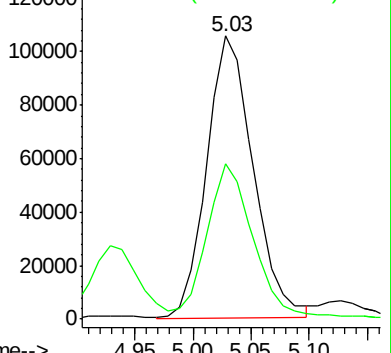
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

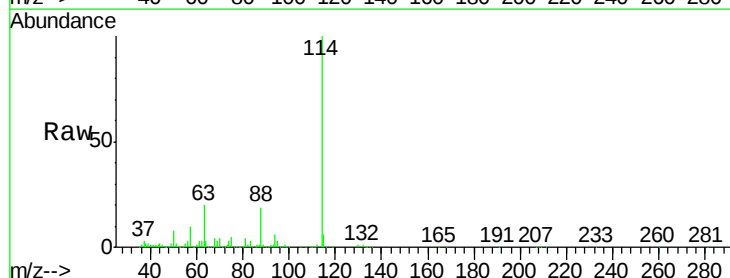
Tgt Ion: 114 Resp: 654633

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.0

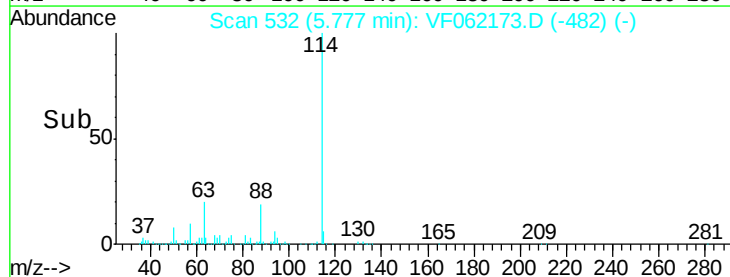
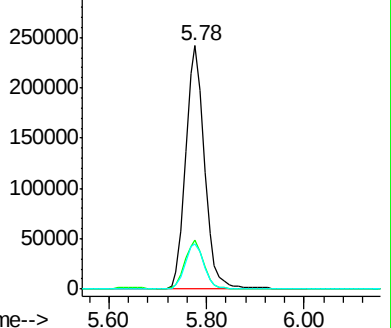
88 18.6 0.0 36.6

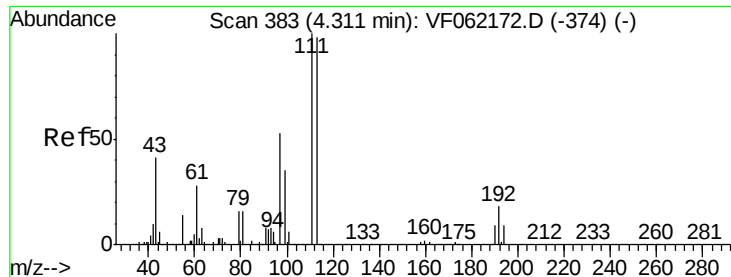


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 73.219 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

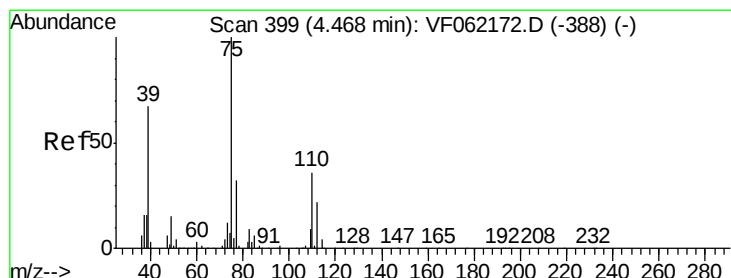
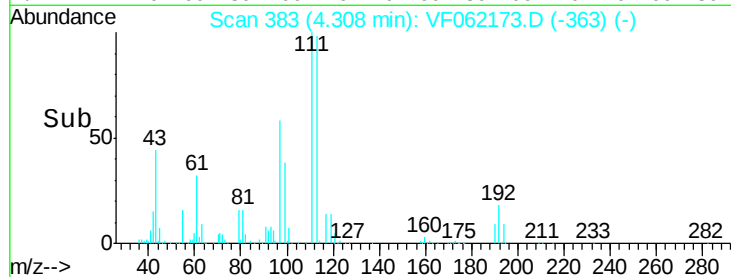
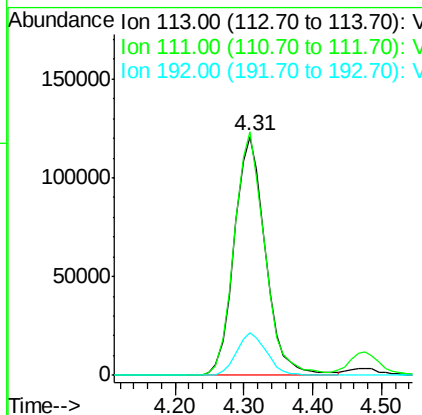
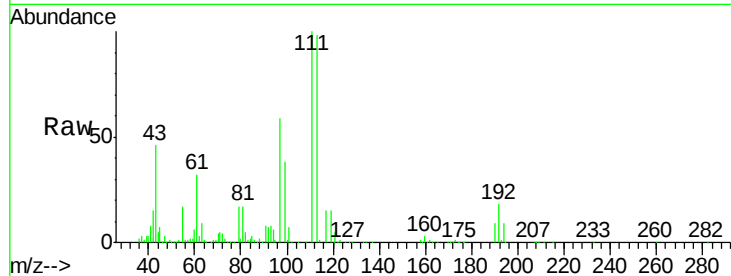
ClientSampleId :

VSTDIC075

Tot Ion:	113	Resp:	378096
Ion Ratio	Lower	Upper	
113	100		
111	102.0	81.6	122.4
192	18.0	15.0	22.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 70.162 ug/l

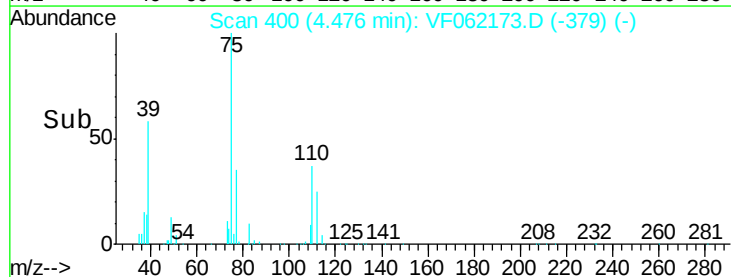
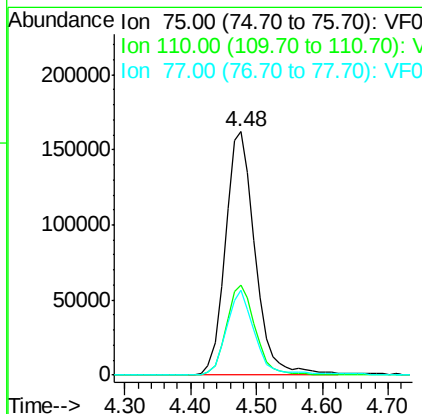
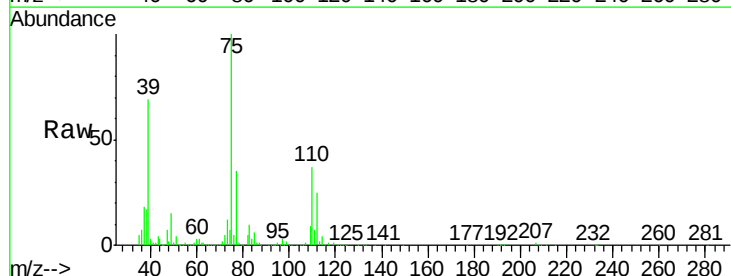
RT: 4.48 min Scan# 400

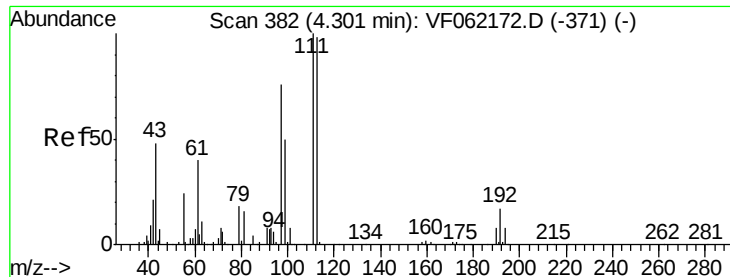
Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	75	Resp:	510317
Ion Ratio	Lower	Upper	
75	100		
110	37.1	17.9	53.8
77	35.0	25.6	38.4





#37

Ethyl Acetate

Concen: 71.586 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

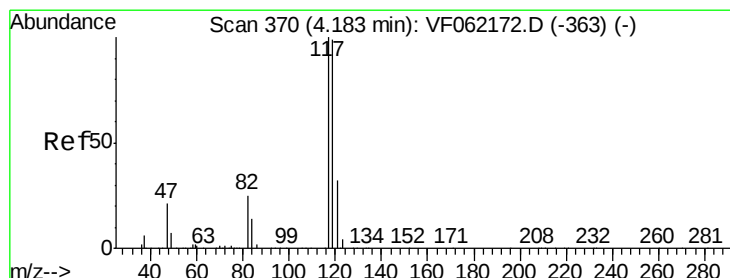
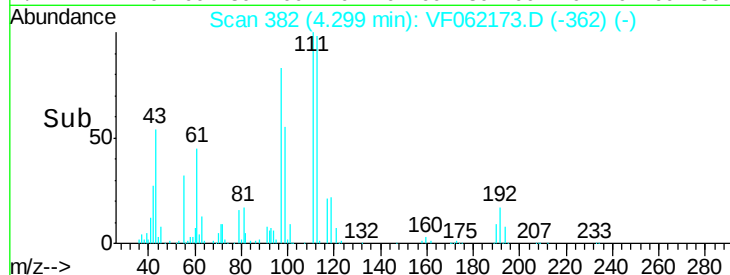
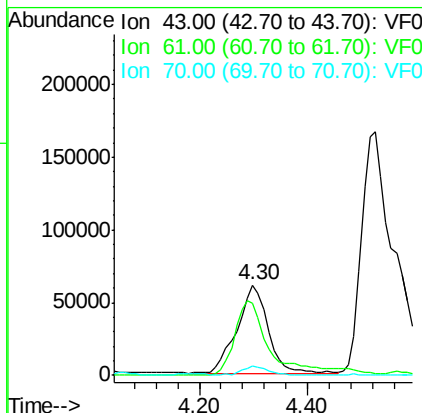
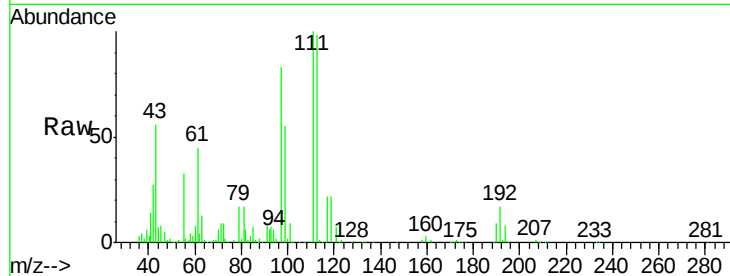
ClientSampleId :

VSTDIC075

Tot Ion:	43	Resp:	239917
Ion	Ratio	Lower	Upper
43	100		
61	80.5	64.9	97.3
70	10.2	7.8	11.8

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 72.560 ug/l m

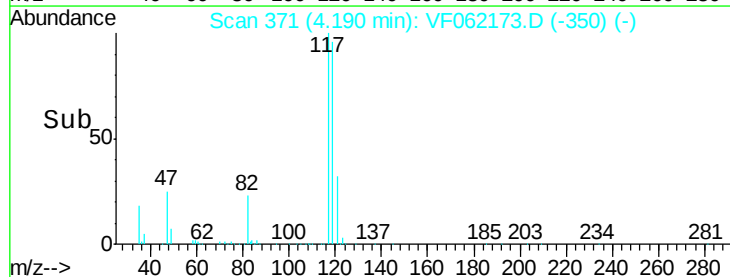
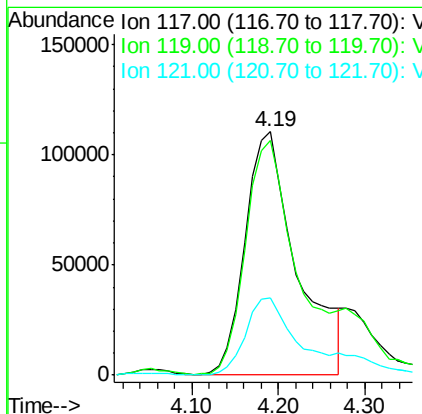
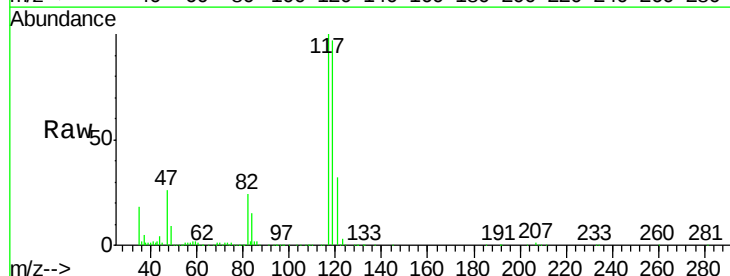
RT: 4.19 min Scan# 371

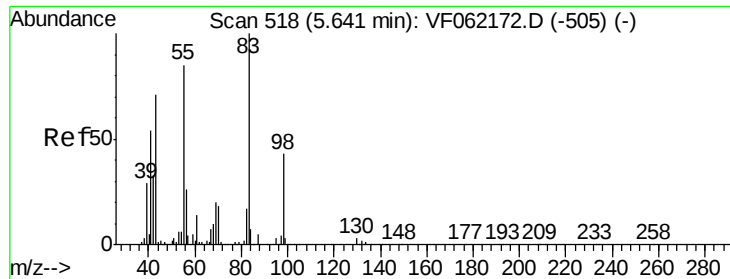
Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	117	Resp:	461577
Ion	Ratio	Lower	Upper
117	100		
119	96.6	78.9	118.3
121	31.7	25.3	37.9





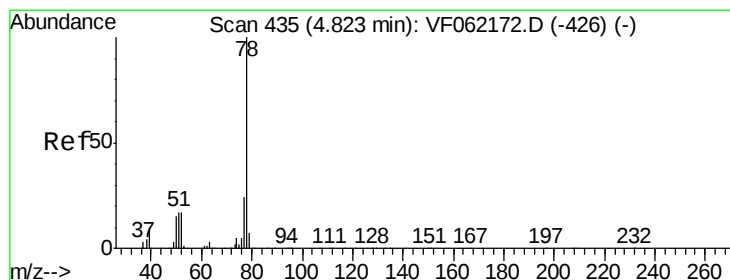
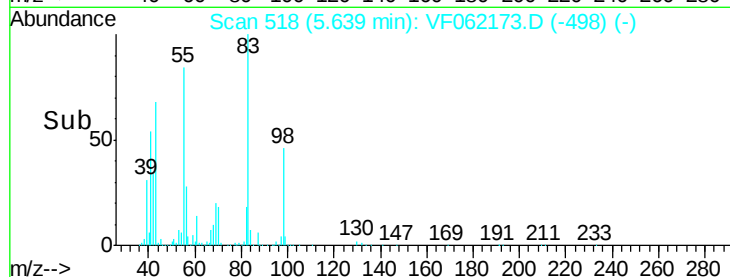
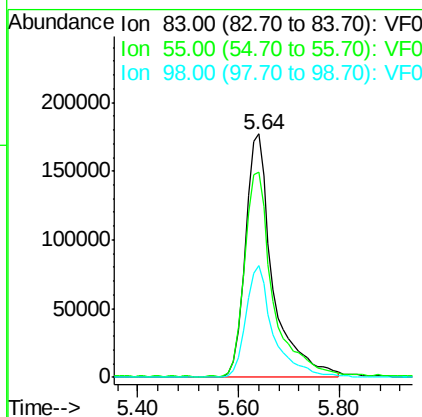
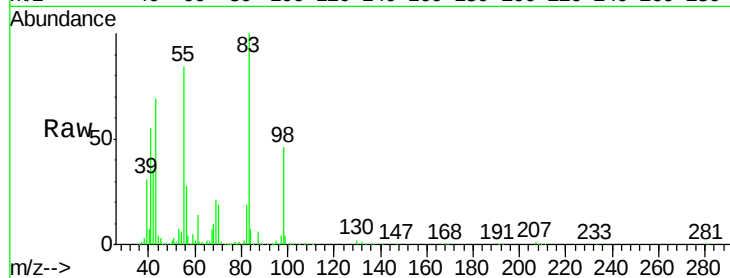
#39
Methvlcvclohexane
Concen: 73.445 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.2	68.2	102.2
98	45.7	34.4	51.6

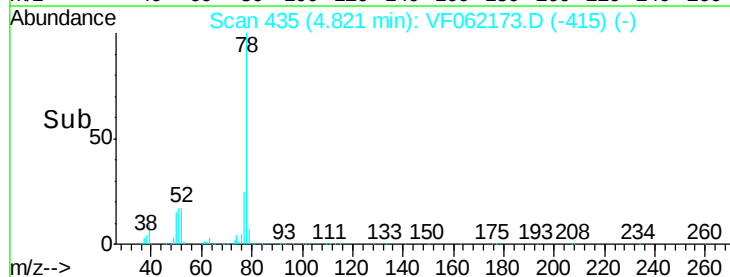
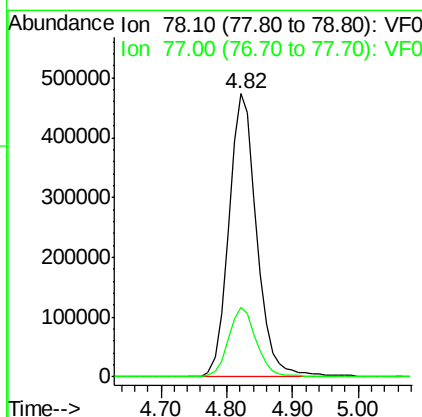
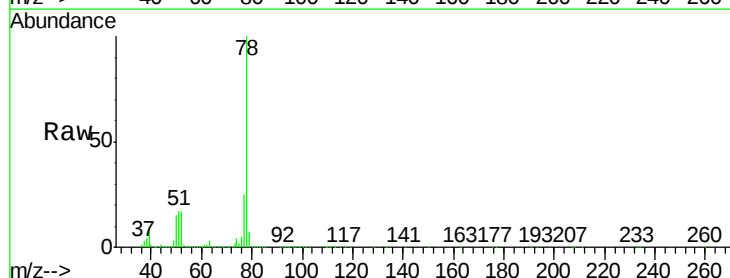
Manual Integrations
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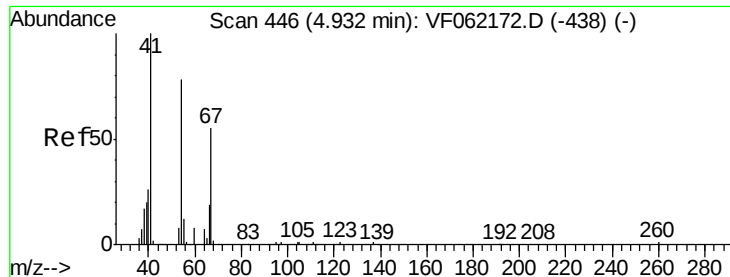
MMDadoda
4/17/2019 11:50:25 AM



#40
Benzene
Concen: 73.172 ug/l
RT: 4.82 min Scan# 435
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.1	28.7





#41

Methacrylonitrile

Concen: 71.760 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

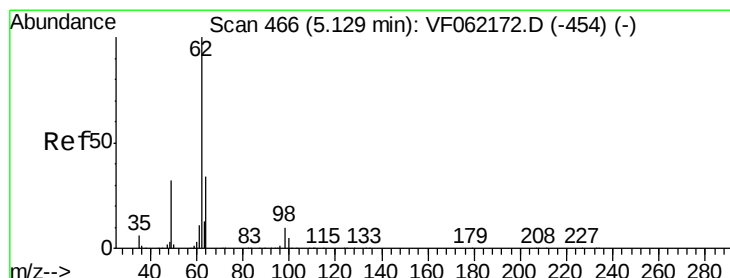
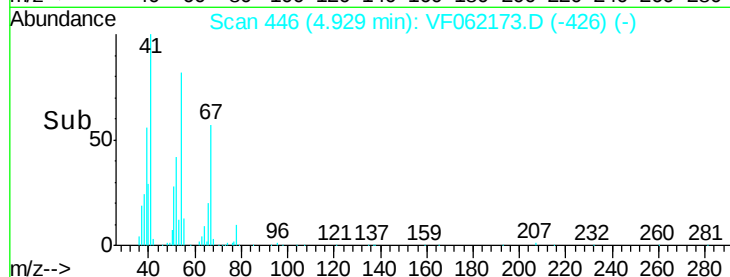
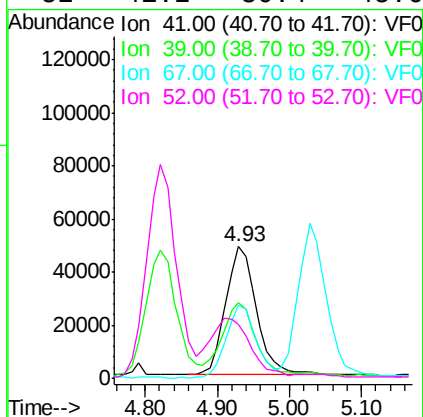
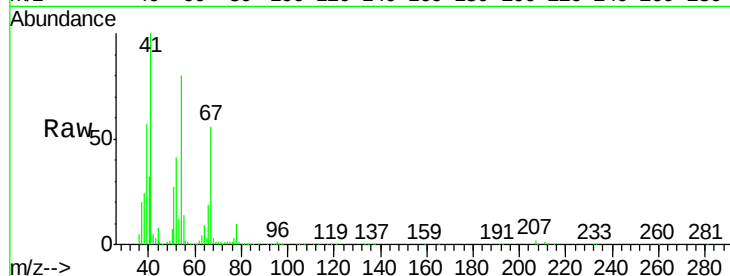
ClientSampleId :

VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.3	43.5	65.3	
67	55.5	42.9	64.3	
52	41.2	30.4	45.6	

Manual Integrations
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4/17/2019 11:50:25 AM



#42

1,2-Dichloroethane

Concen: 77.401 ug/l

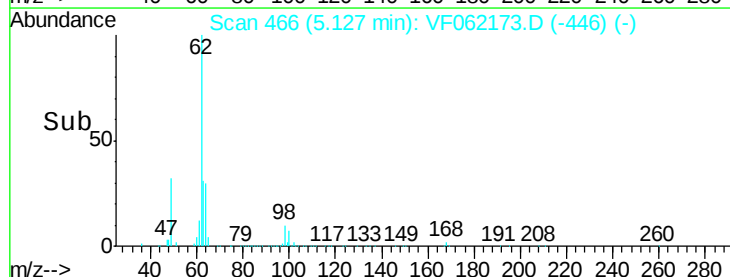
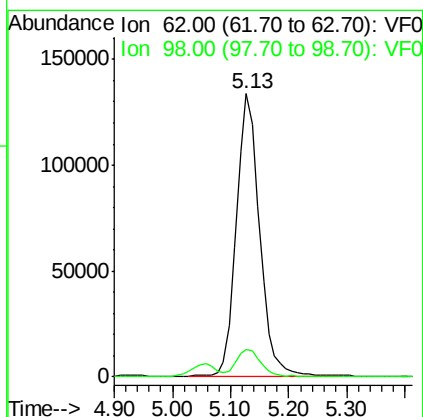
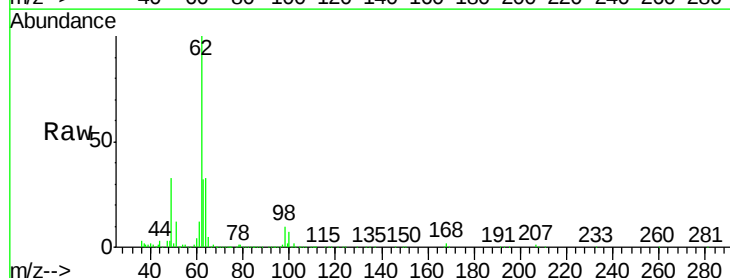
RT: 5.13 min Scan# 466

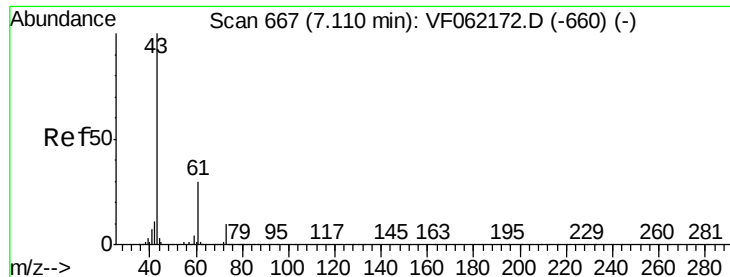
Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.9	0.0	22.0	





#43

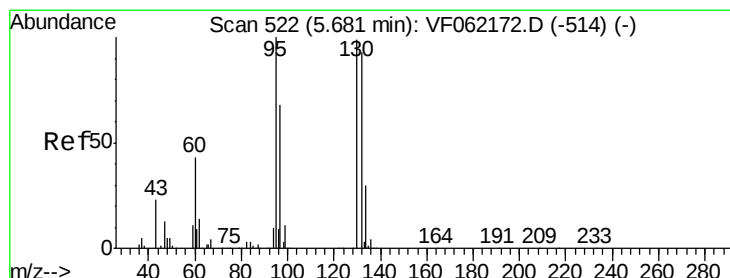
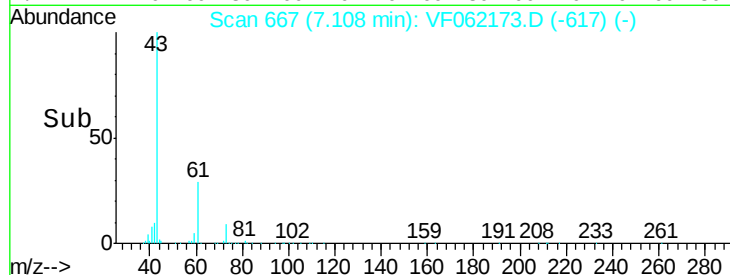
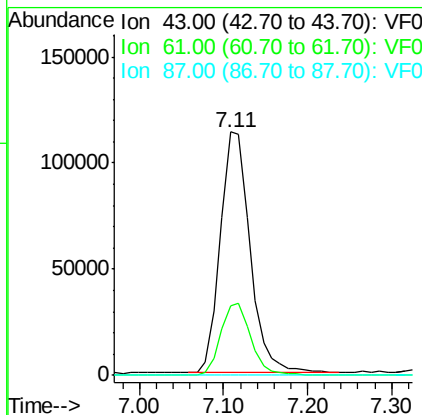
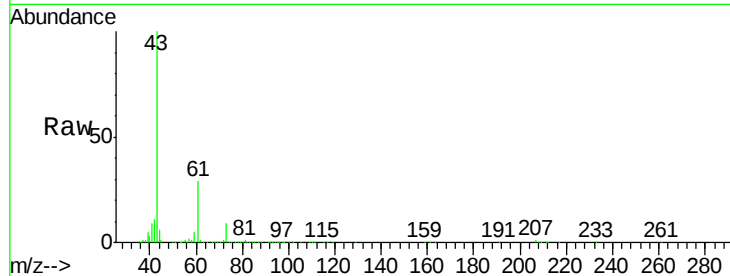
Isopropyl Acetate
 Concen: 71.855 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.5	23.7	35.5
87	0.2	0.3	0.5

Manual Integrations
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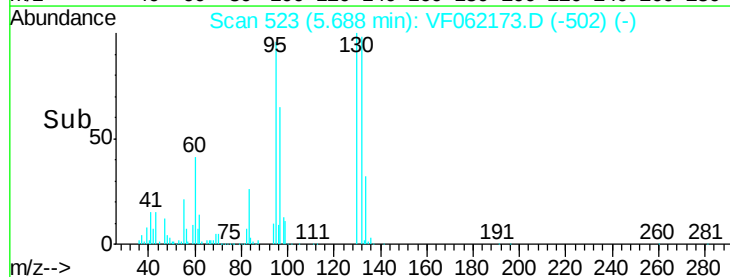
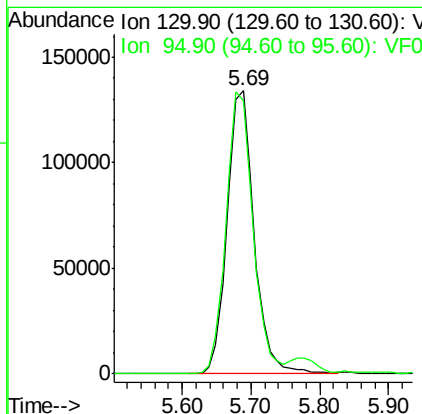
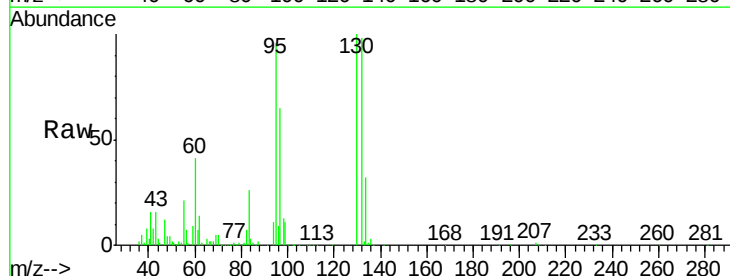
MMDadoda
 4/17/2019 11:50:25 AM

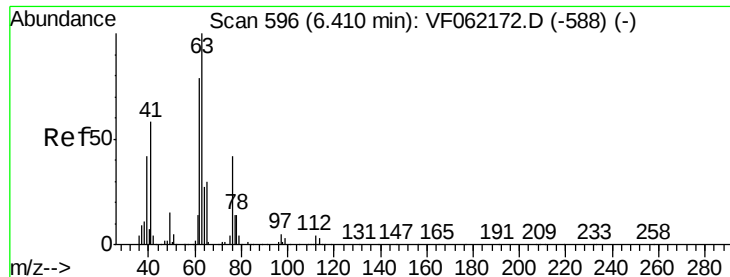


#44

Trichloroethene
 Concen: 70.846 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.01 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.5	0.0	202.2





#45

1,2-Dichloropropane

Concen: 71.492 ug/l

RT: 6.41 min Scan# 596

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 63 Resp: 336964

Ion Ratio Lower Upper

63 100

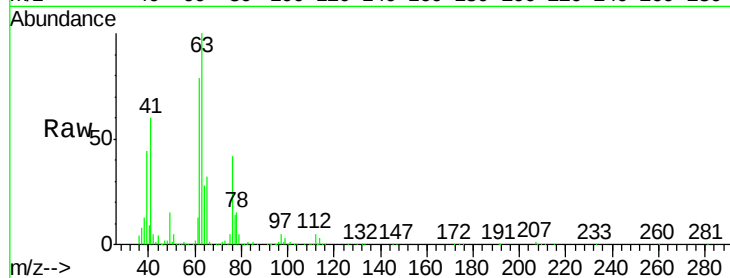
65 32.4 23.7 35.5

Manual Integrations

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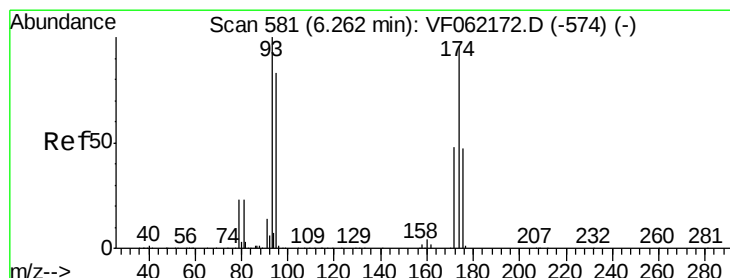
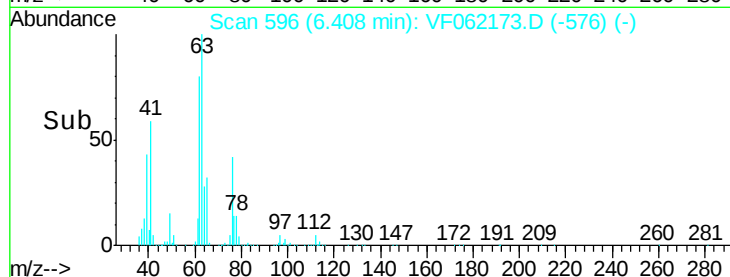
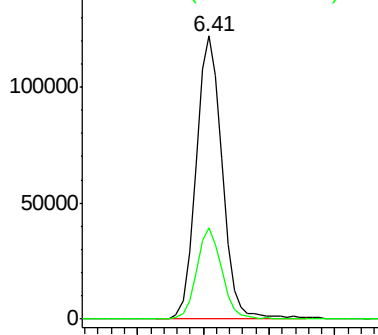
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 74.265 ug/l

RT: 6.26 min Scan# 581

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

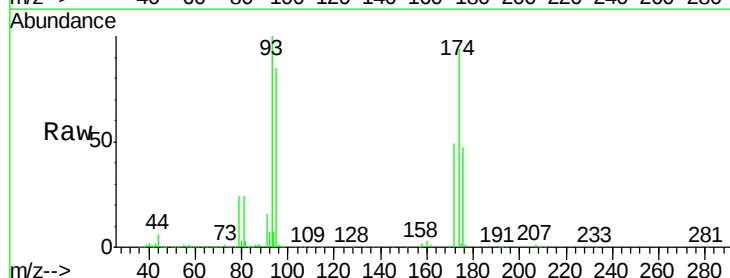
Tgt Ion: 93 Resp: 211076

Ion Ratio Lower Upper

93 100

95 84.5 67.0 100.6

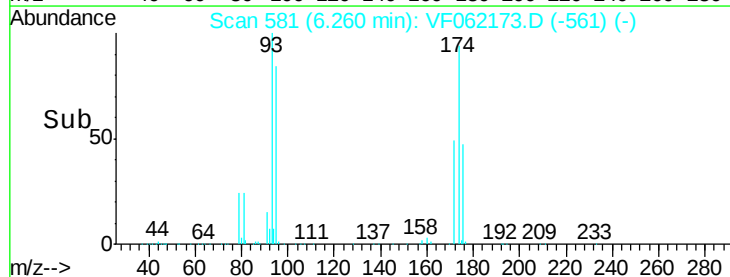
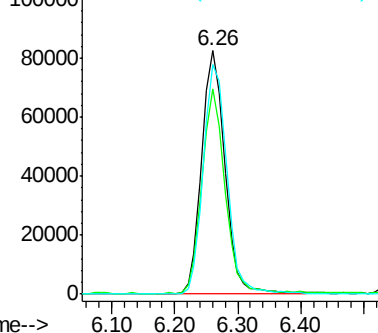
174 94.3 76.3 114.5

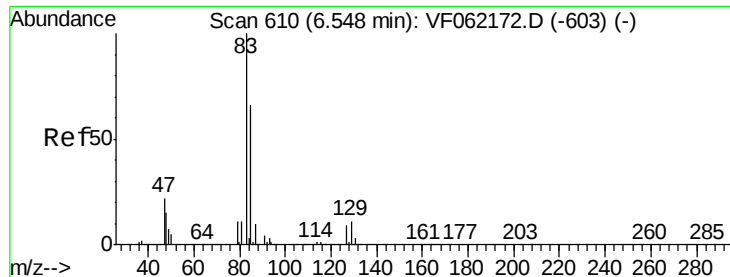


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 71.908 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

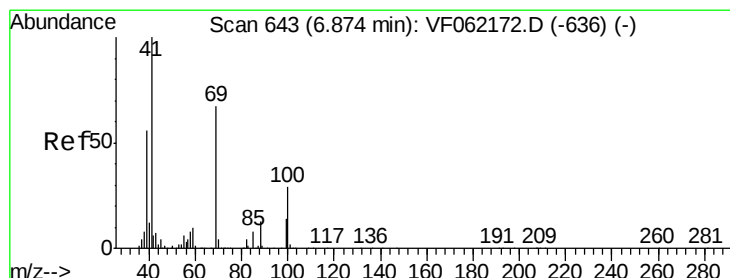
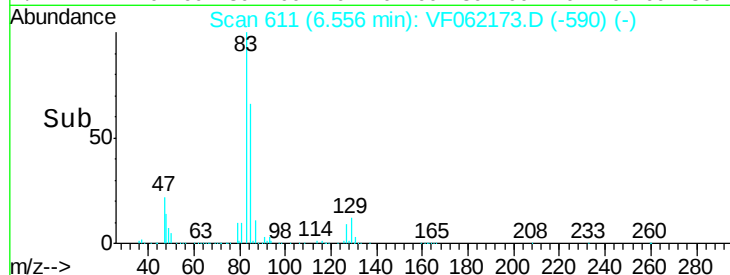
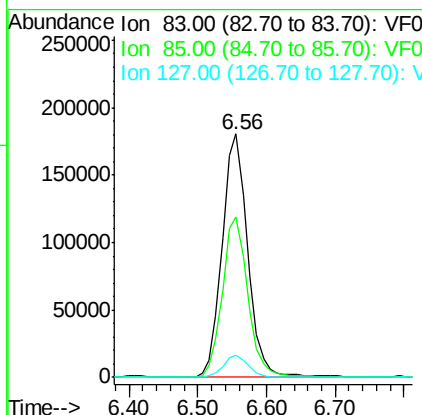
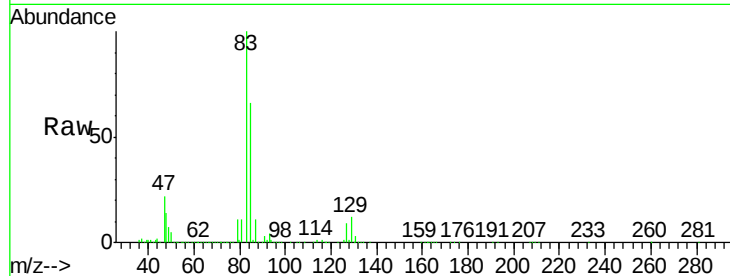
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	463017
Ion Ratio	Lower	Upper	
83	100		
85	66.1	52.6	79.0
127	9.2	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 73.458 ug/l

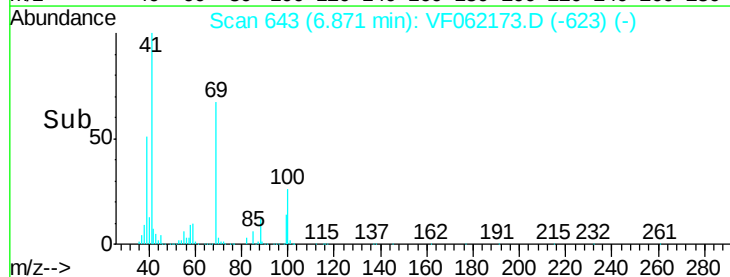
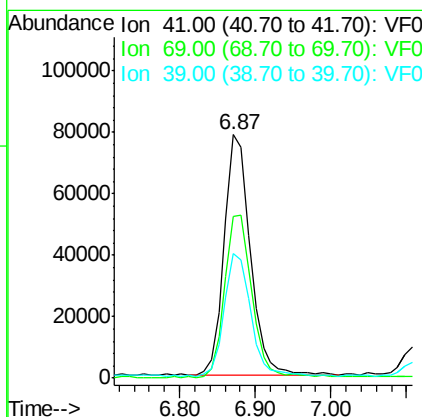
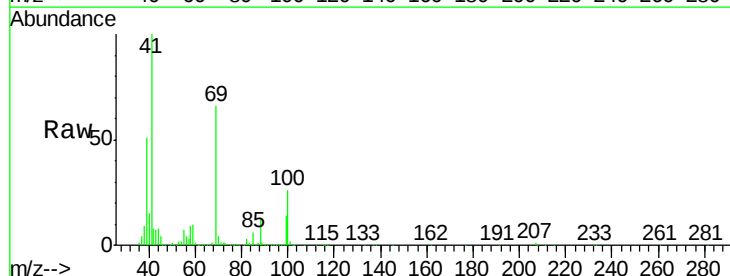
RT: 6.87 min Scan# 643

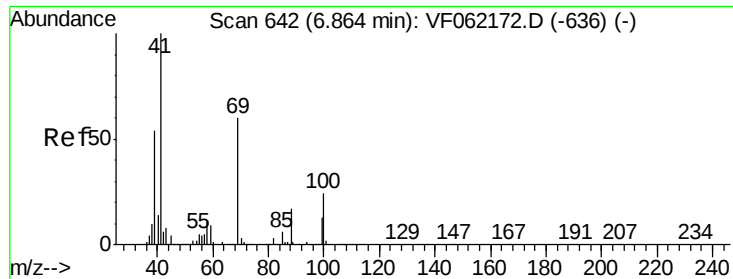
Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	41	Resp:	186238
Ion Ratio	Lower	Upper	
41	100		
69	66.3	52.8	79.2
39	51.4	45.0	67.4





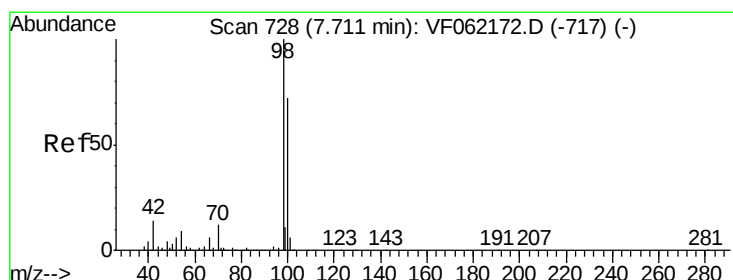
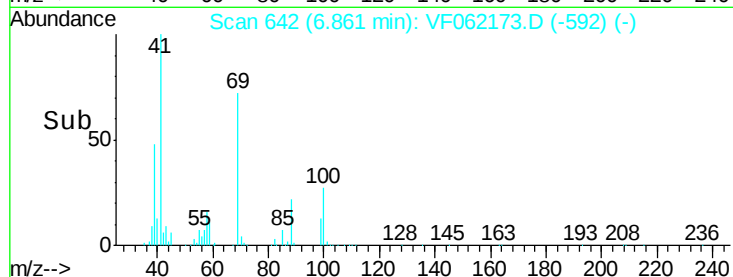
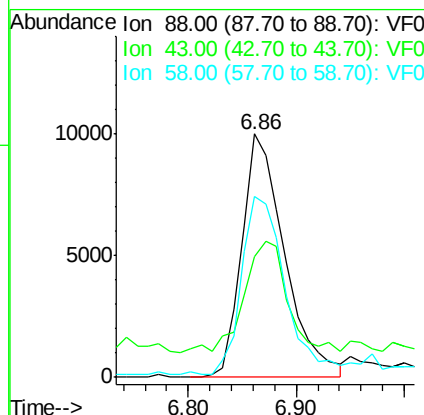
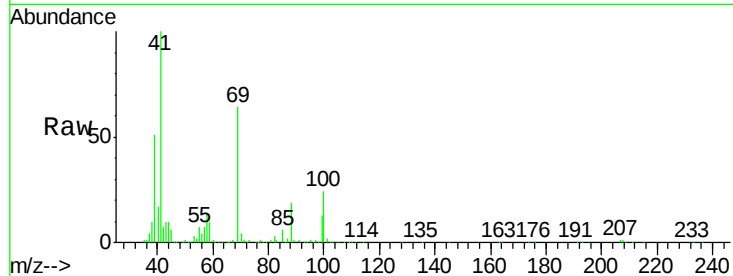
#49
1,4-Dioxane
Concen: 1393.378 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
88	100		
43	49.5	49.5	74.3#
58	74.5	52.6	79.0

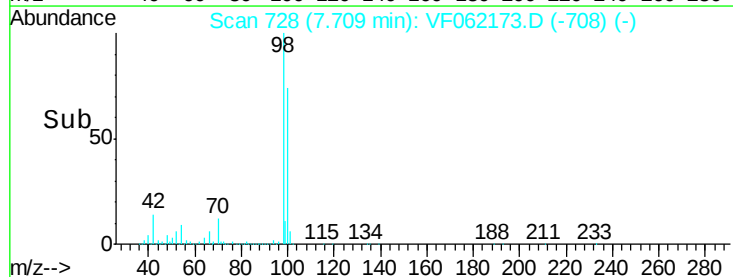
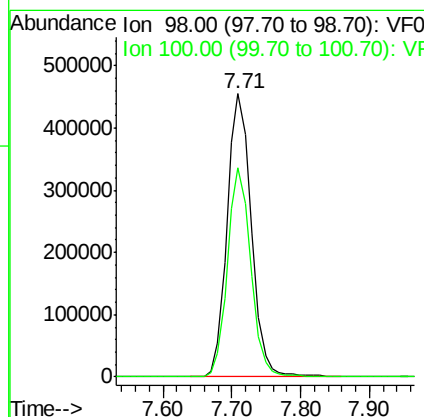
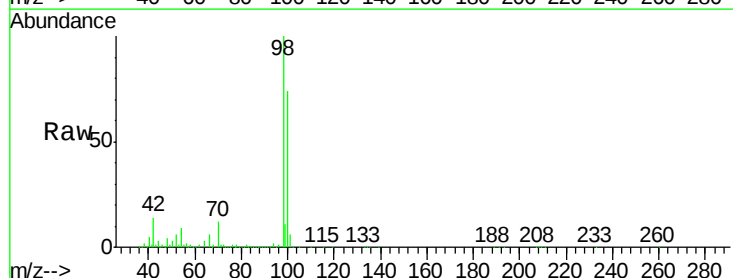
Manual Integrations
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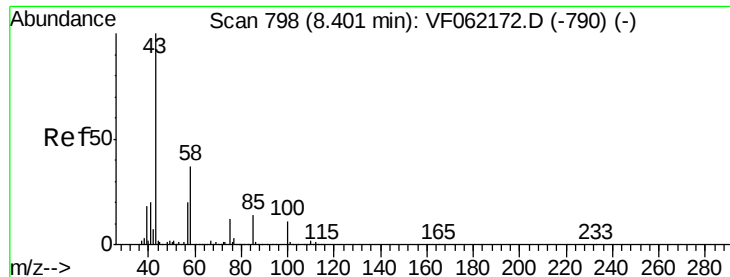
MMDadoda
4/17/2019 11:50:25 AM



#50
Toluene-d8
Concen: 73.446 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
98	100		
100	73.9	57.4	86.0





#51

4-Methyl-2-Pentanone

Concen: 363.132 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 1083527

Ion Ratio Lower Upper

43 100

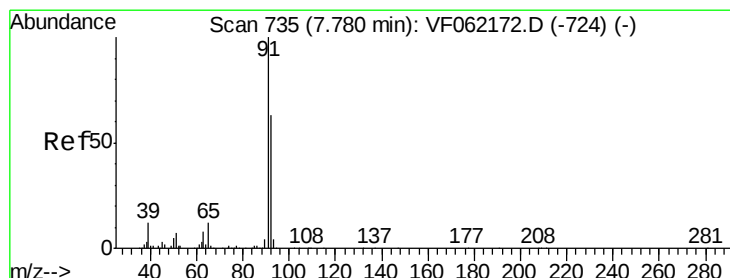
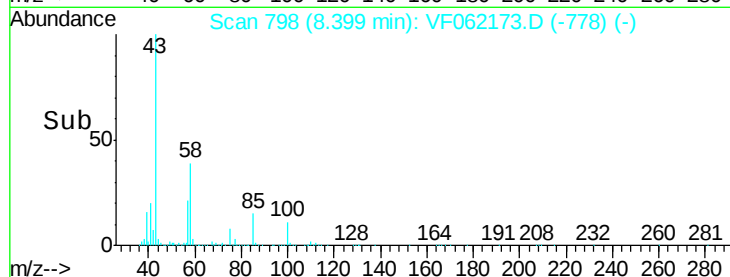
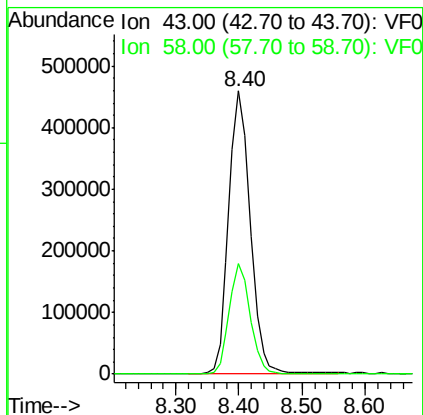
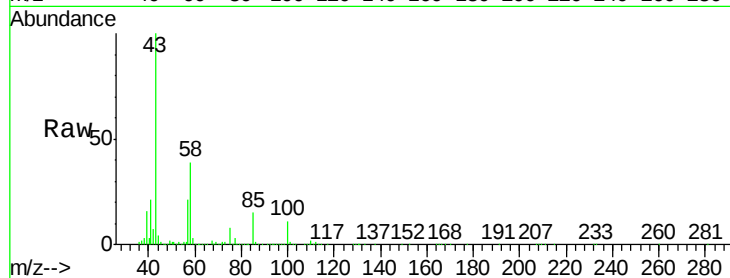
58 38.9 29.7 44.5

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4/17/2019 11:50:25 AM



#52

Toluene

Concen: 70.450 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF062173.D

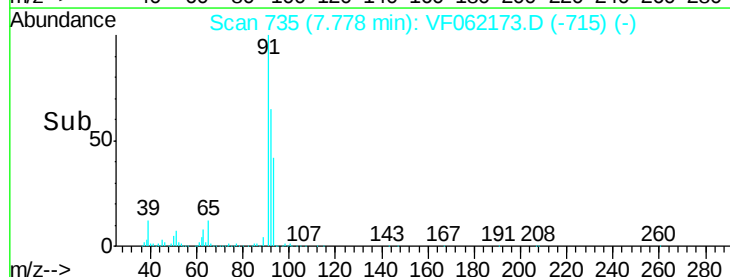
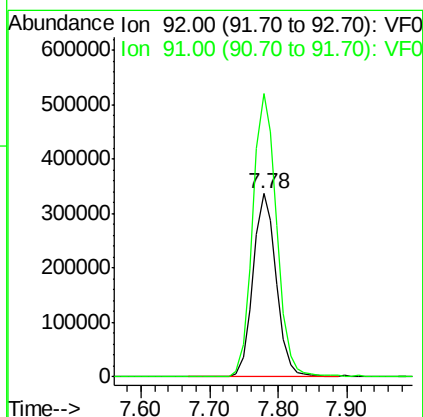
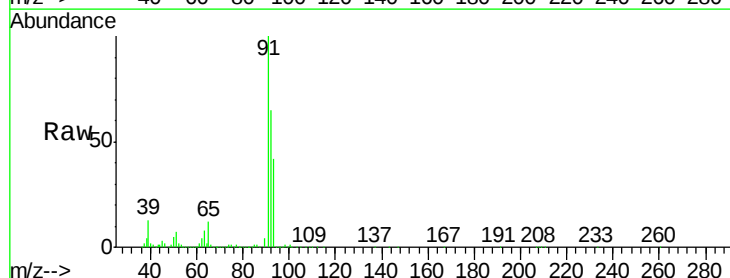
Acq: 16 Apr 2019 12:45

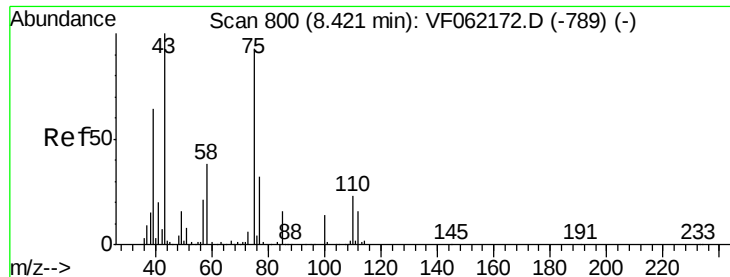
Tgt Ion: 92 Resp: 795144

Ion Ratio Lower Upper

92 100

91 154.4 126.9 190.3





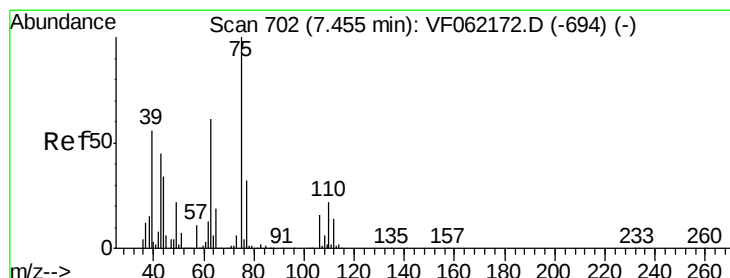
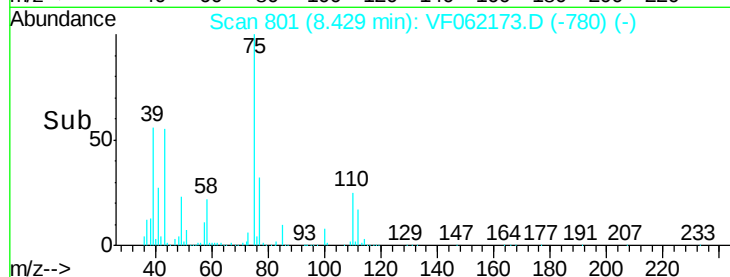
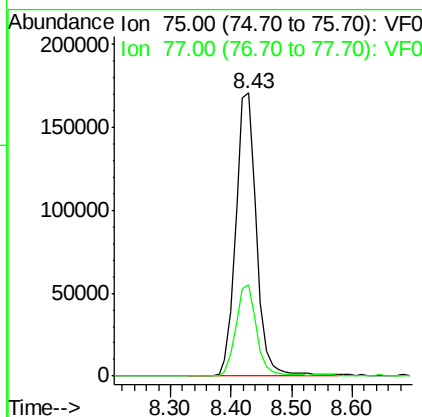
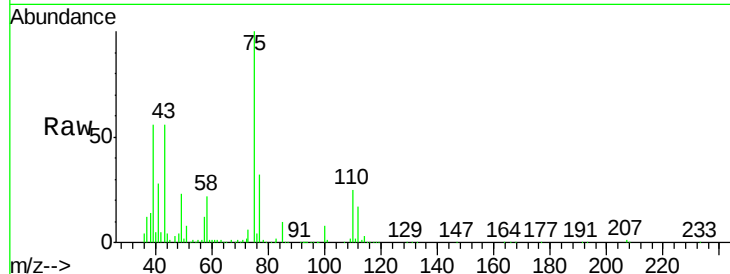
#53
t-1,3-Dichloropropene
Concen: 72.359 ug/l
RT: 8.43 min Scan# 801
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.1	27.8	41.6

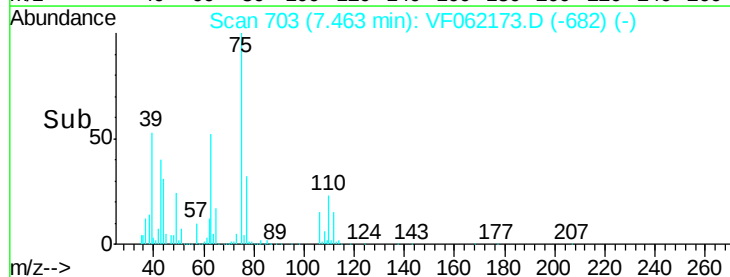
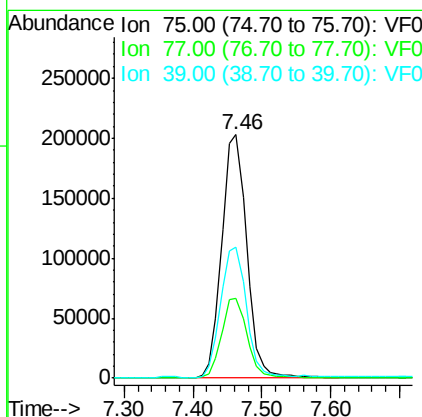
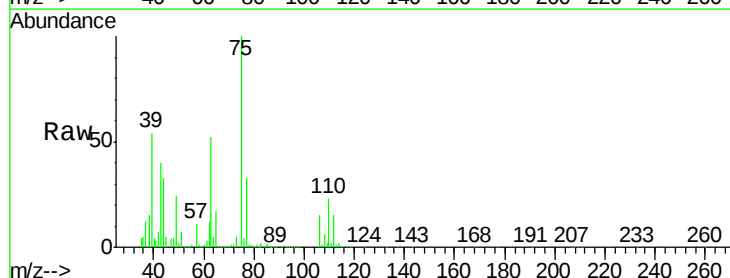
Manual Integrations
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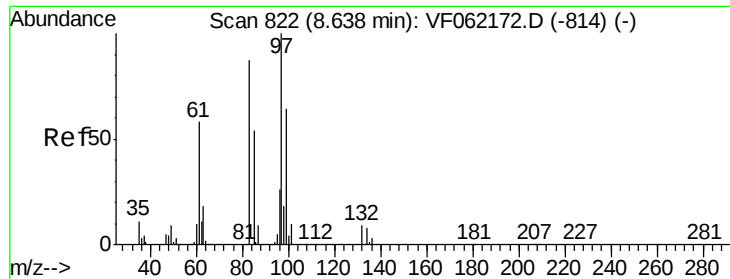
MMDadoda
4/17/2019 11:50:25 AM



#54
cis-1,3-Dichloropropene
Concen: 72.254 ug/l
RT: 7.46 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.6	26.0	39.0
39	53.6	45.2	67.8





#55

1,1,2-Trichloroethane

Concen: 73.594 ug/l

RT: 8.64 min Scan# 822

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

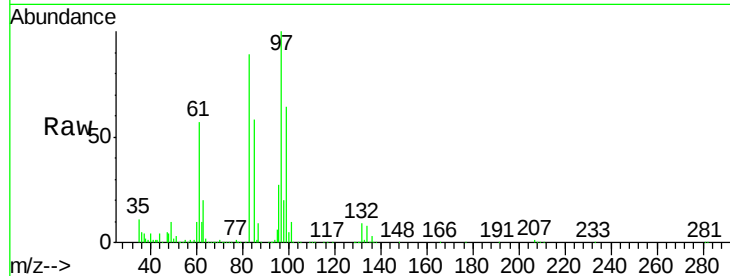
ClientSampleId :

VSTDIC075

Tot Ion:	97	Resp:	237898
Ion	Ratio	Lower	Upper
97	100		
83	89.2	69.6	104.4
85	57.8	43.5	65.3
99	63.6	51.5	77.3

Manual Integrations
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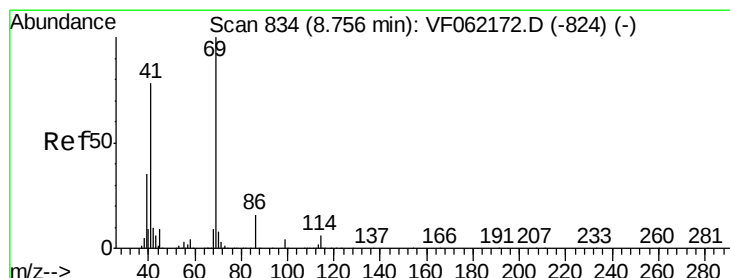
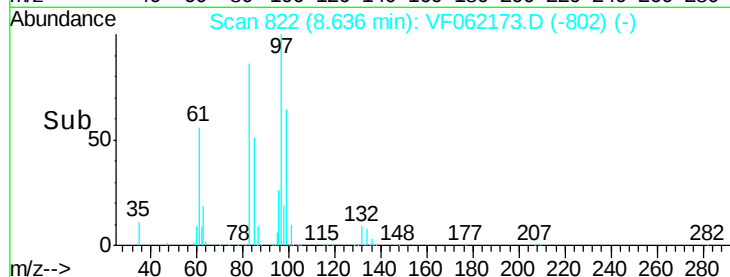
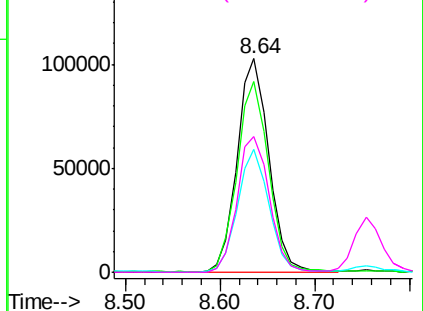


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 69.872 ug/l

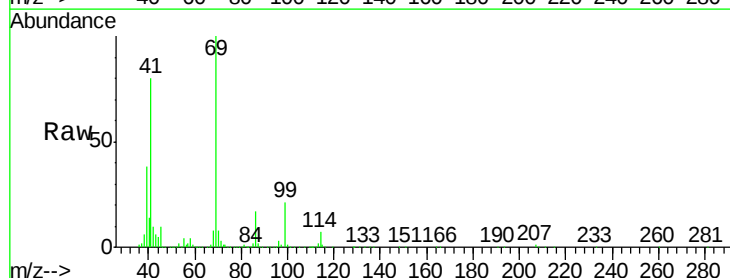
RT: 8.75 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

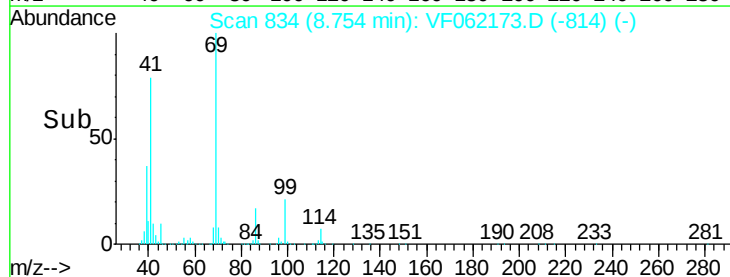
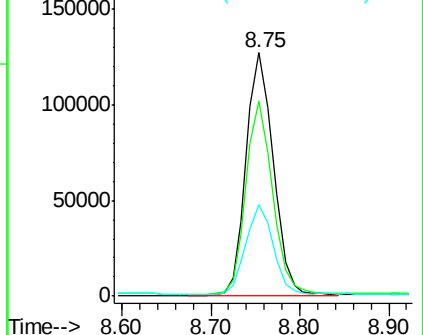
Tgt Ion:	69	Resp:	268580
Ion	Ratio	Lower	Upper
69	100		
41	80.2	63.4	95.0
39	37.6	29.0	43.6

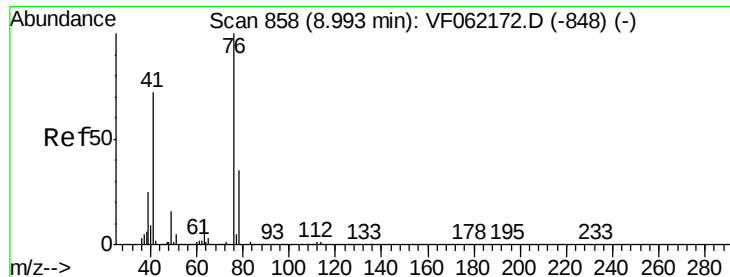


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 72.462 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 385092

Ion Ratio Lower Upper

76 100

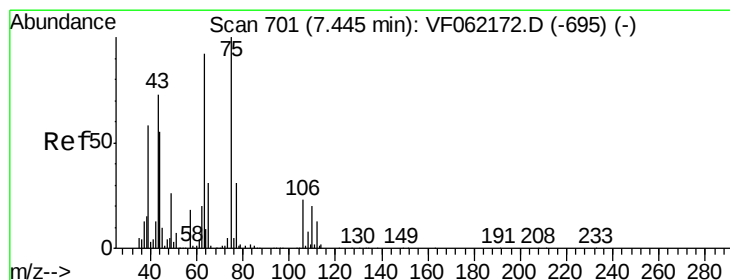
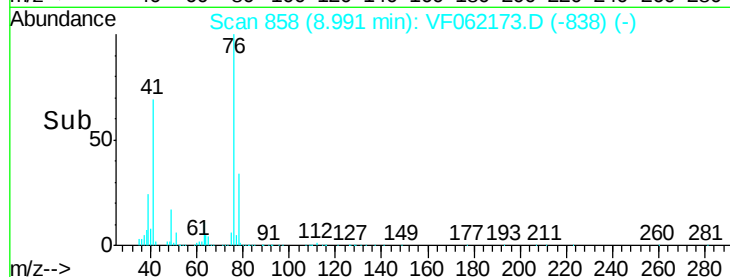
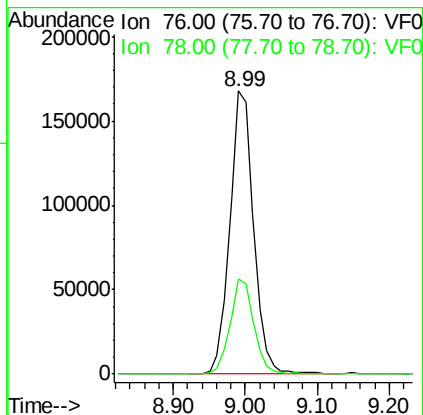
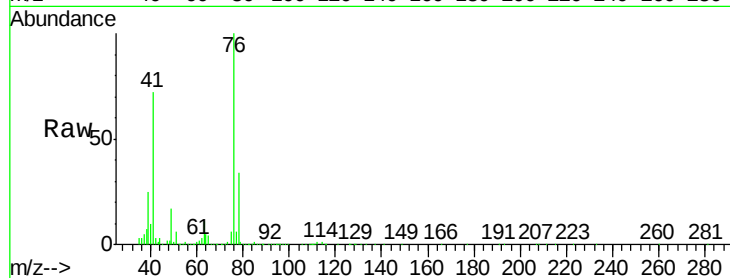
78 33.8 28.2 42.2

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 376.964 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF062173.D

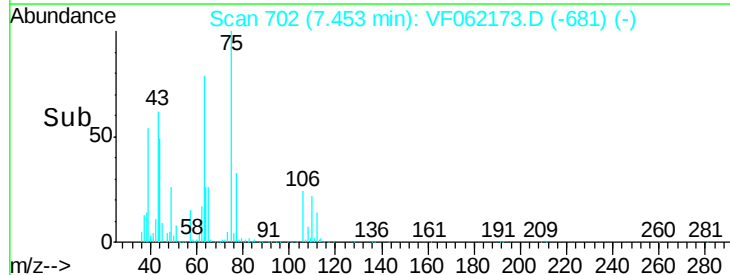
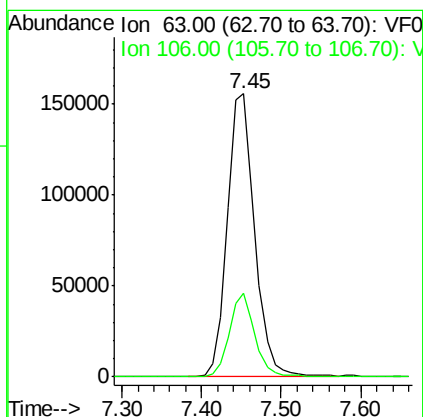
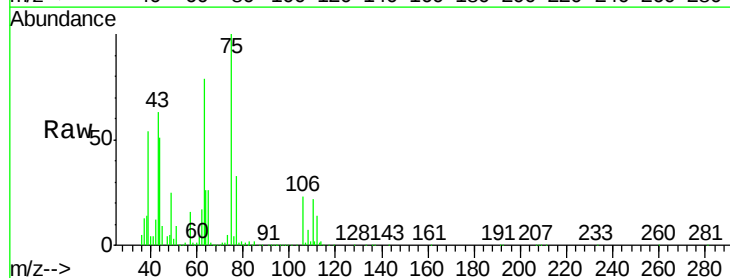
Acq: 16 Apr 2019 12:45

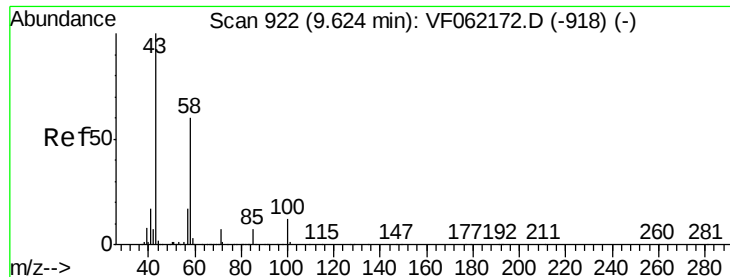
Tgt Ion: 63 Resp: 373337

Ion Ratio Lower Upper

63 100

106 29.6 20.2 30.4





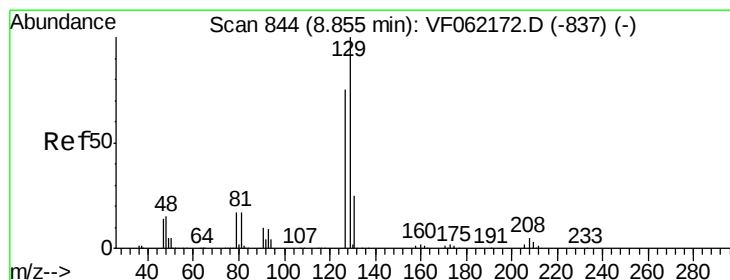
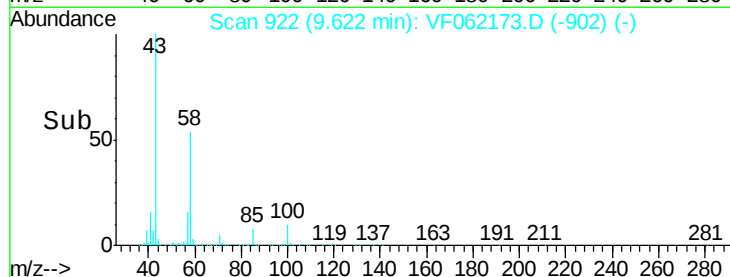
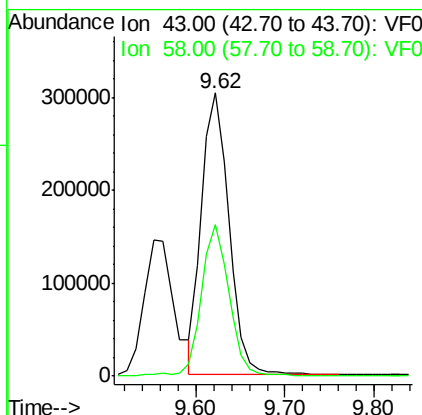
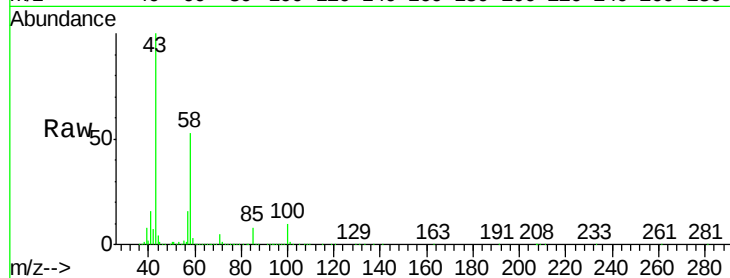
#59
2-Hexanone
Concen: 340.012 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 43 Resp: 645676
Ion Ratio Lower Upper
43 100
58 53.4 26.8 80.4

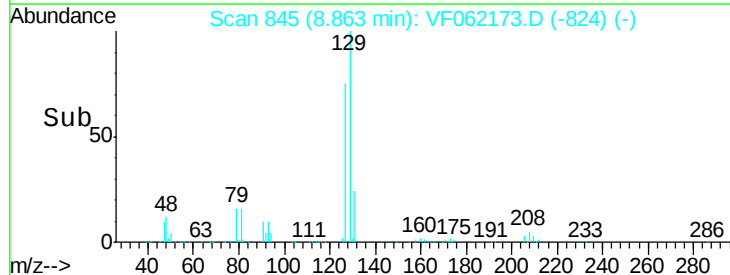
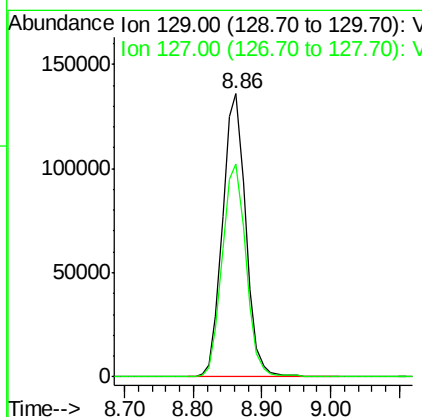
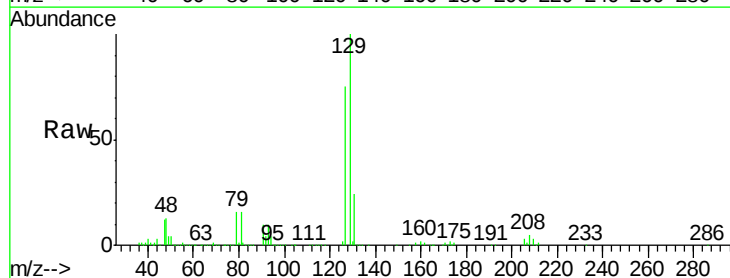
Manual Integrations
APPROVED

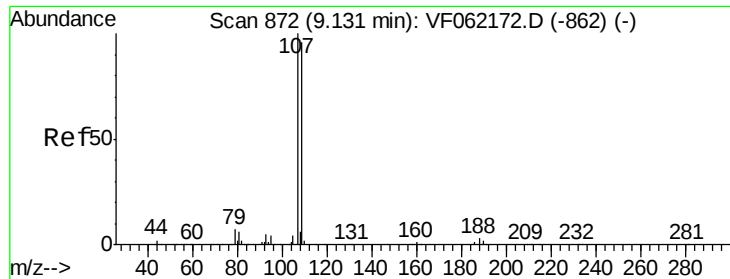
MMDadoda
4/17/2019 11:50:25 AM



#60
Dibromochloromethane
Concen: 71.016 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion: 129 Resp: 315855
Ion Ratio Lower Upper
129 100
127 75.2 37.7 113.1





#61

1,2-Dibromoethane

Concen: 72.790 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 107 Resp: 251740

Ion Ratio Lower Upper

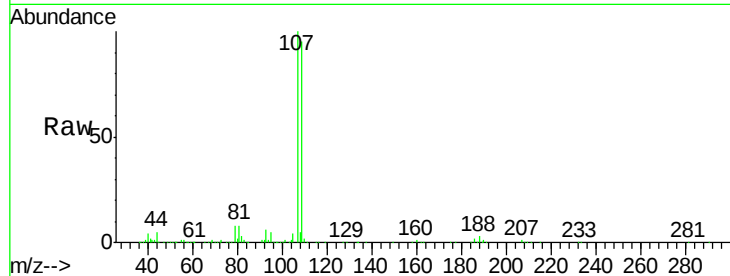
107 100

109 95.3 76.8 115.2

Manual Integrations
APPROVED

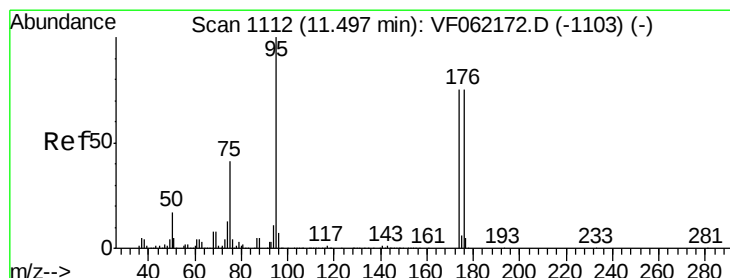
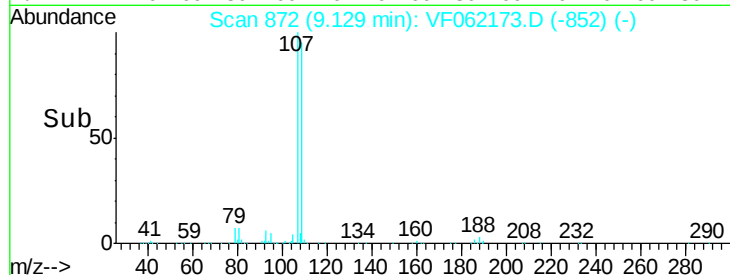
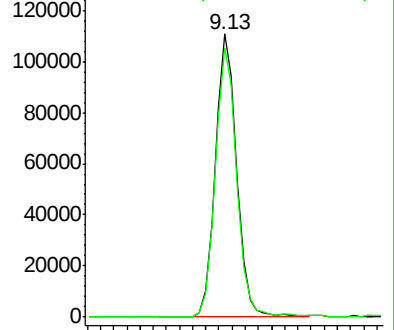
MMDadoda

4/17/2019 11:50:25 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 67.549 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

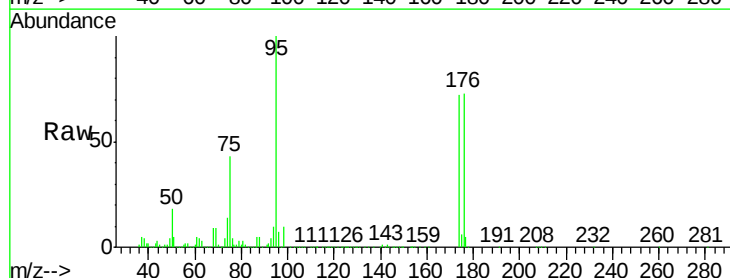
Tgt Ion: 95 Resp: 402542

Ion Ratio Lower Upper

95 100

174 72.4 0.0 150.2

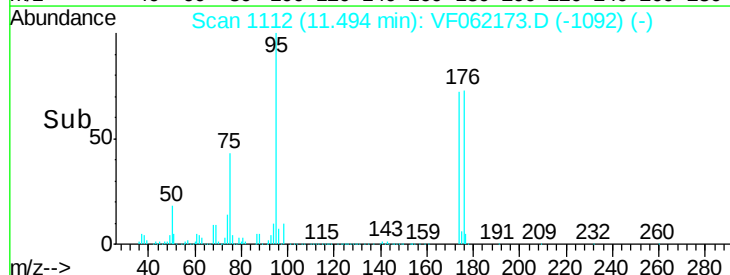
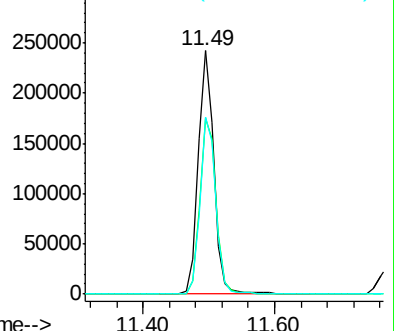
176 72.5 0.0 149.4

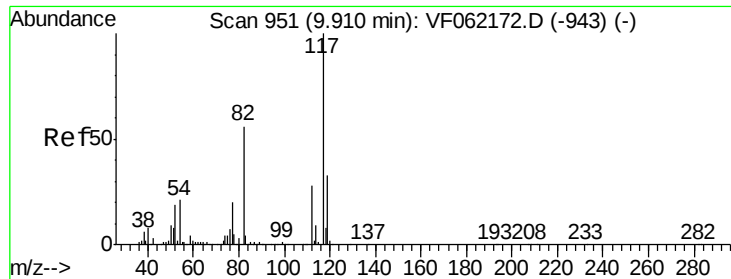


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





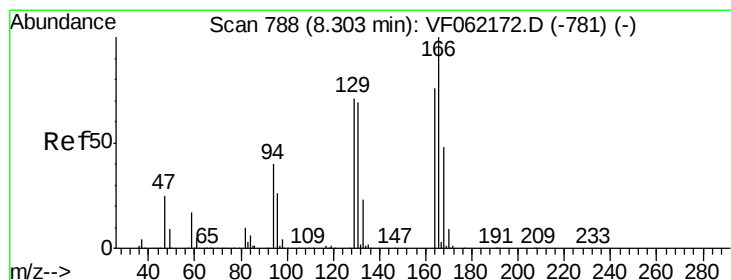
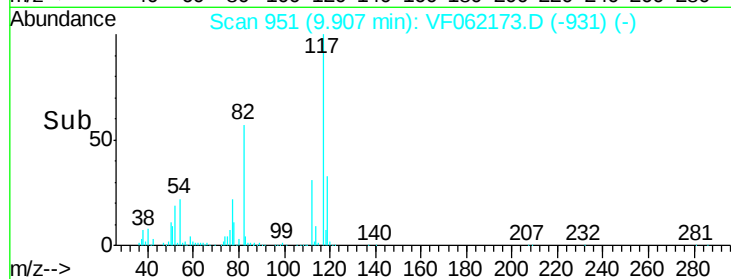
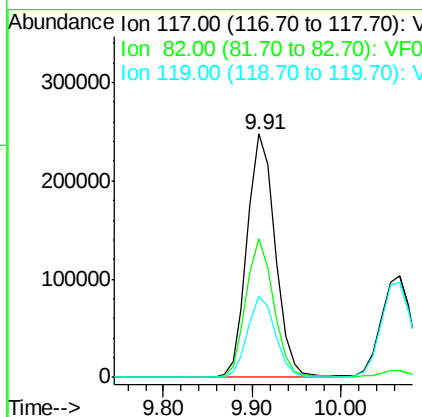
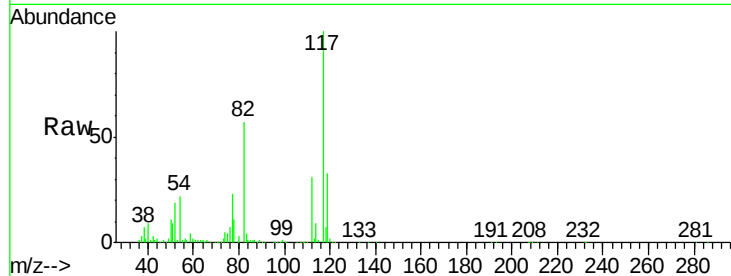
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
117	100	539796		
82	57.1		45.2	67.8
119	33.2		26.6	39.8

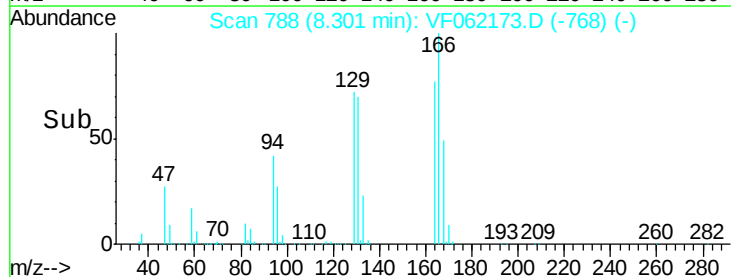
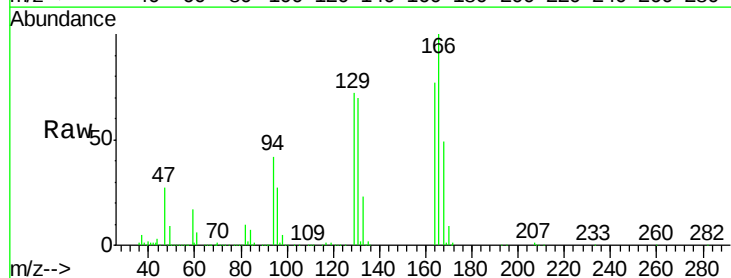
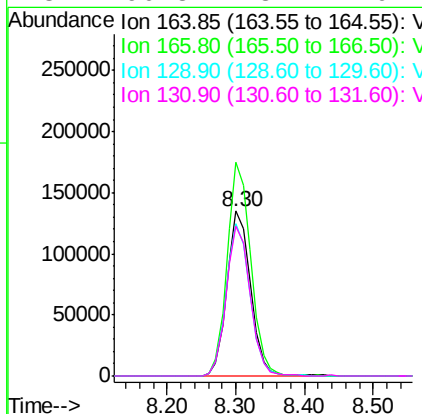
Manual Integrations
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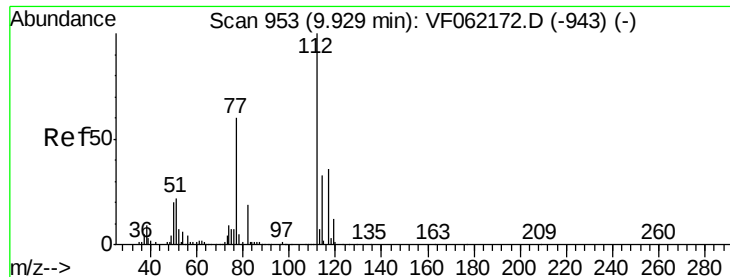
MMDadoda
4/17/2019 11:50:25 AM



#64
Tetrachloroethene
Concen: 72.653 ug/l
RT: 8.30 min Scan# 788
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	320310		
166	129.8		105.9	158.9
129	93.0		75.3	112.9
131	90.8		73.4	110.2





#65

Chlorobenzene

Concen: 72.087 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:112 Resp: 809478

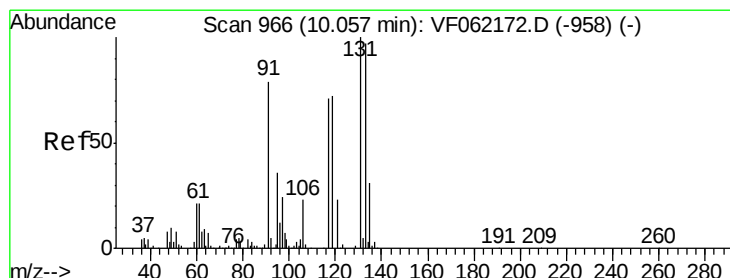
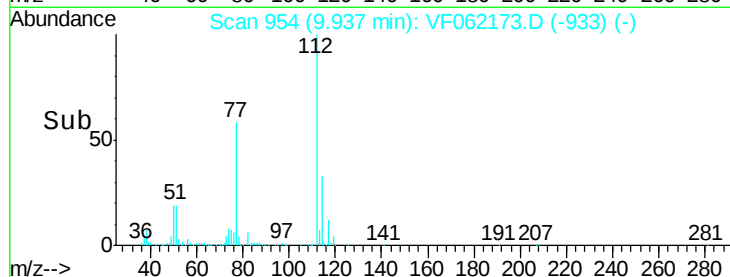
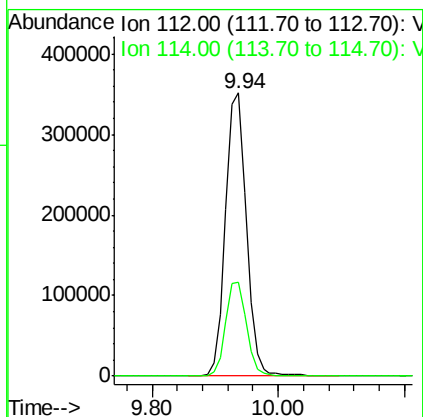
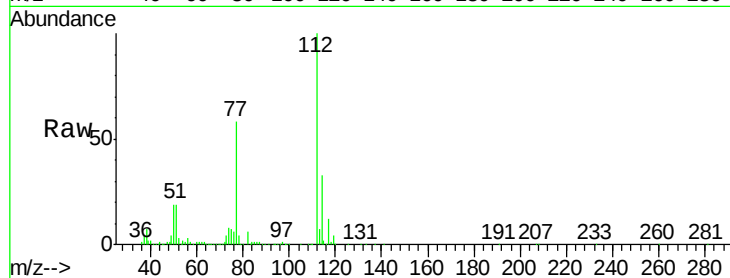
Ion Ratio Lower Upper

112 100

114 33.3 26.6 39.8

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 70.228 ug/l

RT: 10.07 min Scan# 967

Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

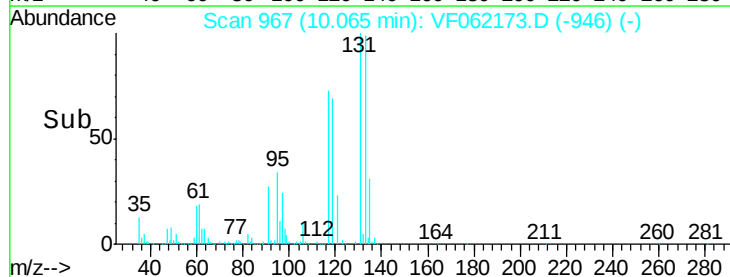
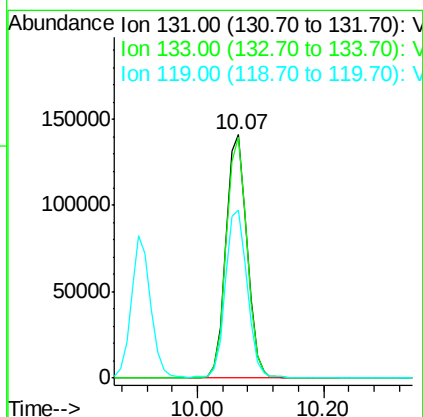
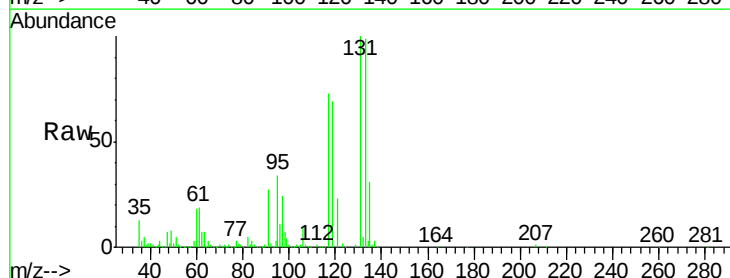
Tgt Ion:131 Resp: 325568

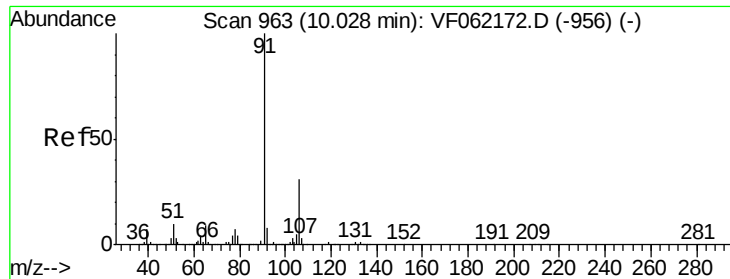
Ion Ratio Lower Upper

131 100

133 98.9 48.4 145.2

119 69.0 36.3 108.9





#67

Ethyl Benzene

Concen: 66.506 ug/l

RT: 10.03 min Scan# 963

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 1384342

Ion Ratio Lower Upper

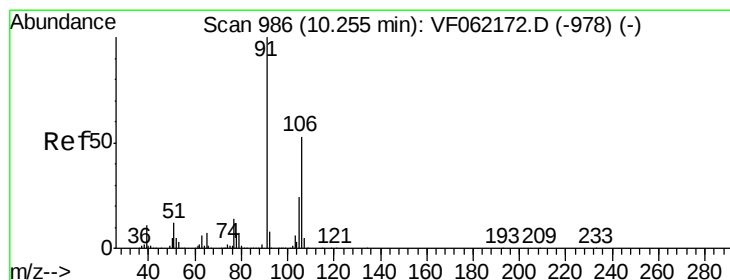
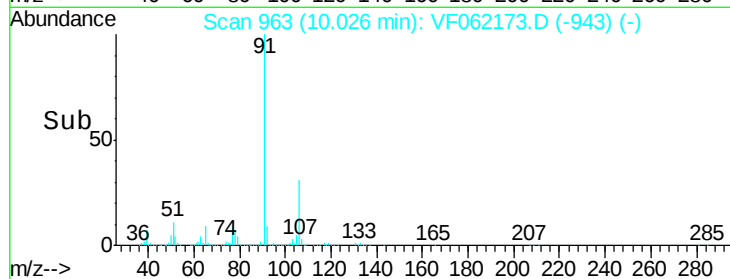
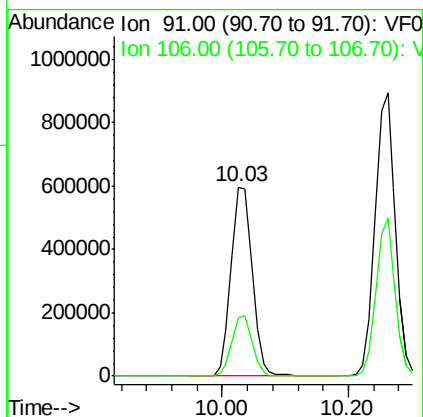
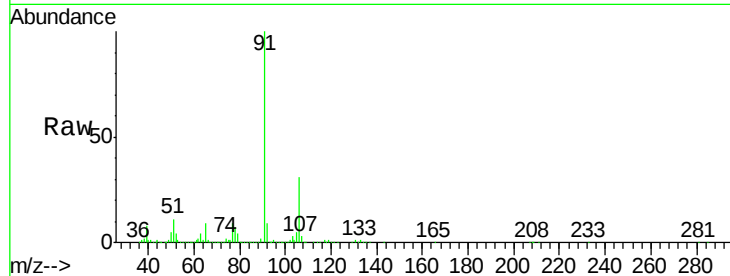
91 100

106 31.0 24.7 37.1

Manual Integrations
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#68

m/p-Xylenes

Concen: 139.092 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.01 min

Lab File: VF062173.D

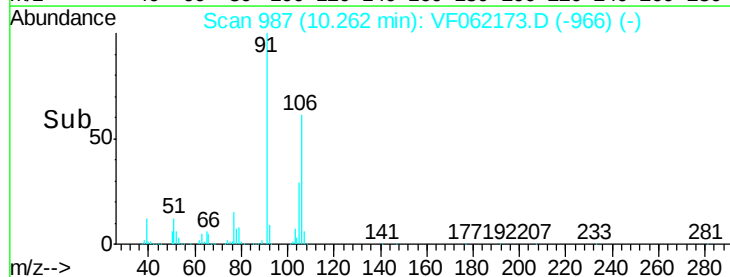
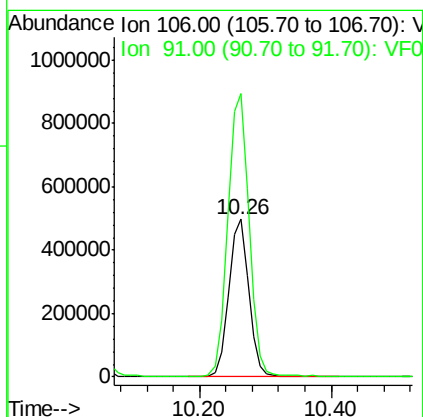
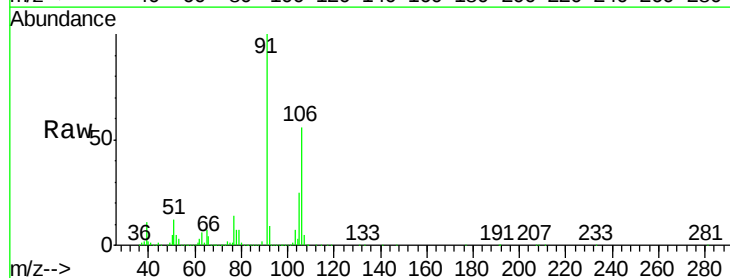
Acq: 16 Apr 2019 12:45

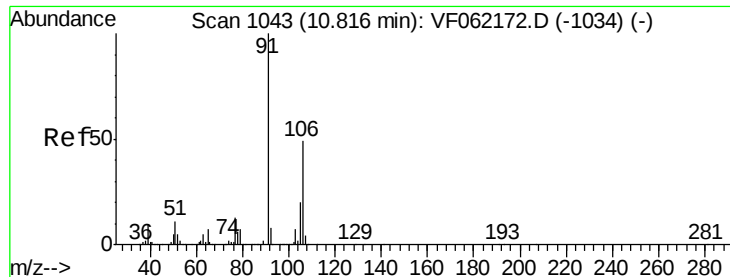
Tgt Ion:106 Resp: 1066000

Ion Ratio Lower Upper

106 100

91 179.8 151.7 227.5





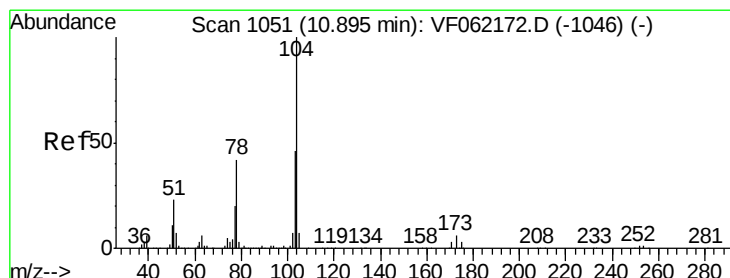
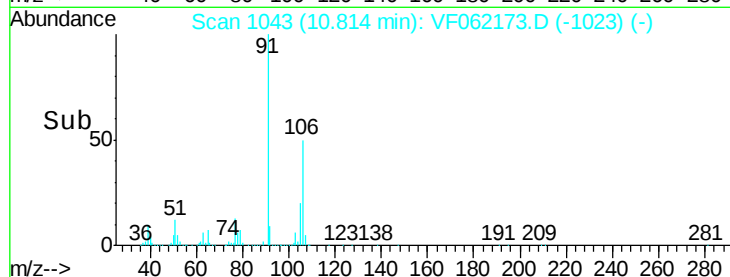
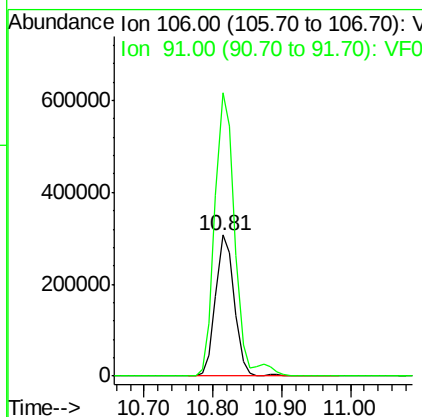
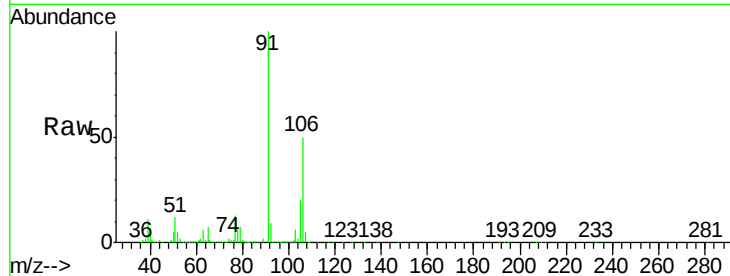
#69
o-Xylene
Concen: 70.246 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion:106 Resp: 582757
Ion Ratio Lower Upper
106 100
91 200.7 101.9 305.7

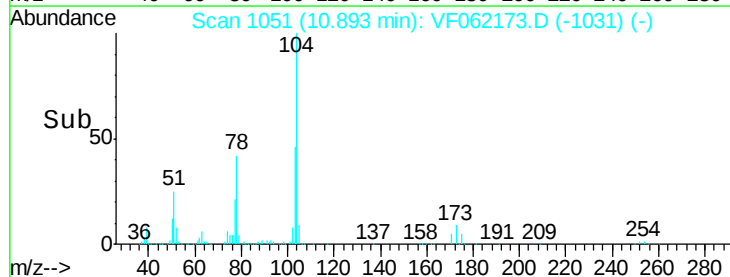
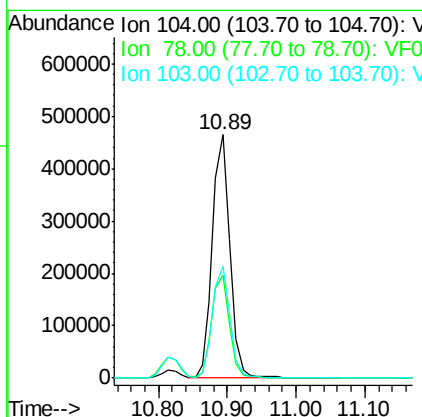
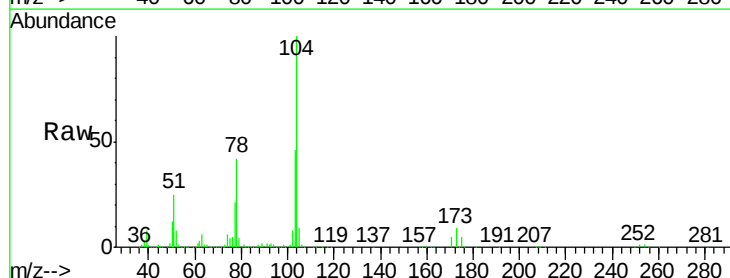
Manual Integrations
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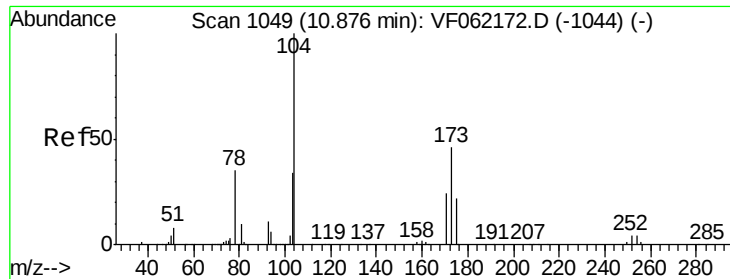
MMDadoda
4/17/2019 11:50:25 AM



#70
Styrene
Concen: 68.338 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion:104 Resp: 824140
Ion Ratio Lower Upper
104 100
78 42.4 33.7 50.5
103 45.8 37.2 55.8





#71

Bromoform

Concen: 72.290 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:173 Resp: 175502

Ion Ratio Lower Upper

173 100

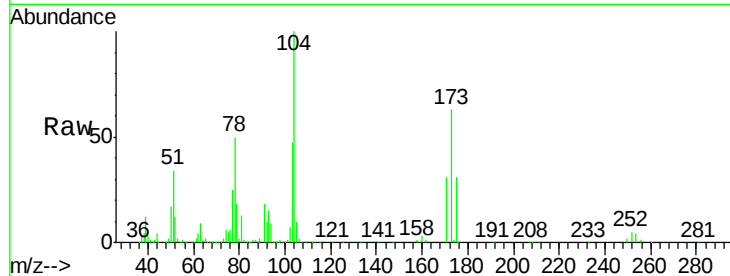
175 48.3 24.3 72.8

254 0.0 6.6 9.8#

Manual Integrations
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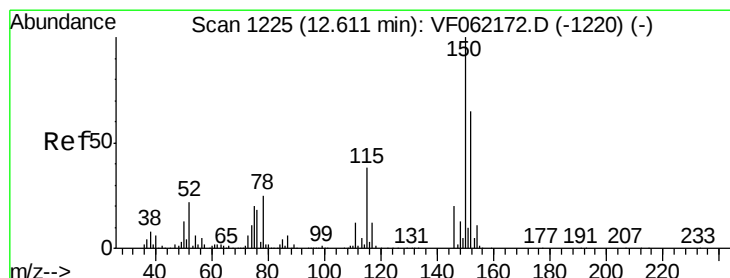
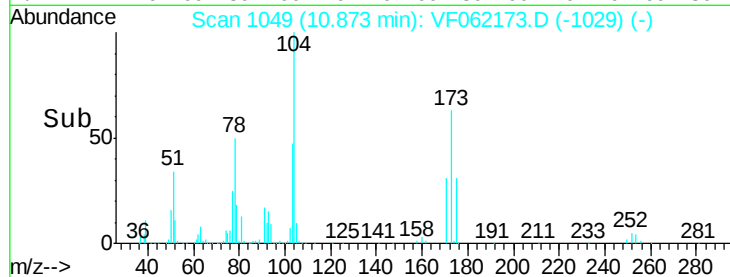
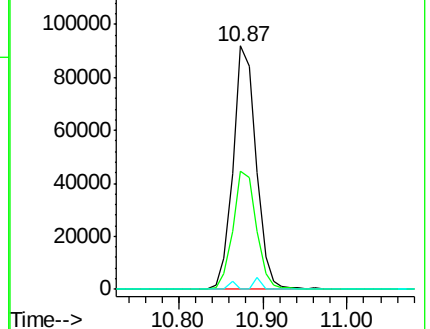
4/17/2019 11:50:25 AM



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: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:152 Resp: 260238

Ion Ratio Lower Upper

152 100

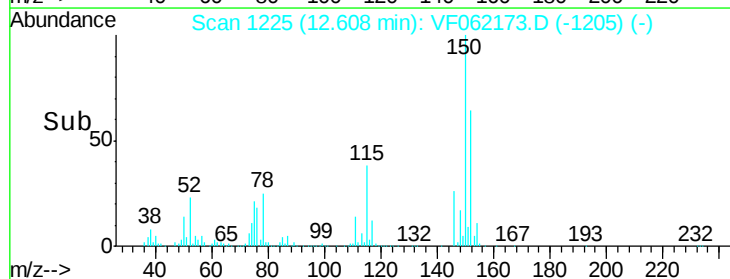
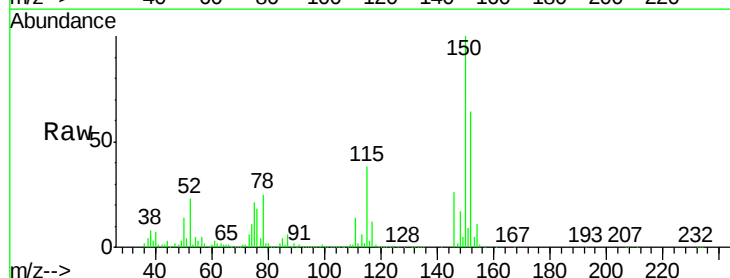
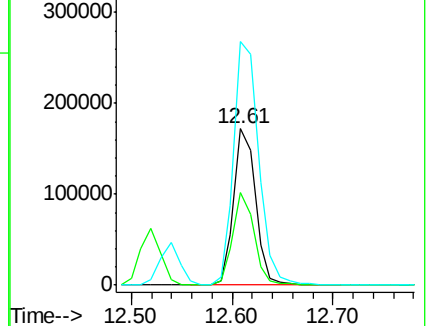
115 59.3 29.0 87.1

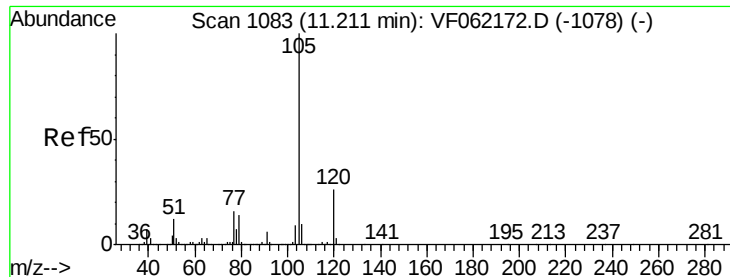
150 155.8 0.0 309.2

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: 69.177 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1550928

Ion Ratio Lower Upper

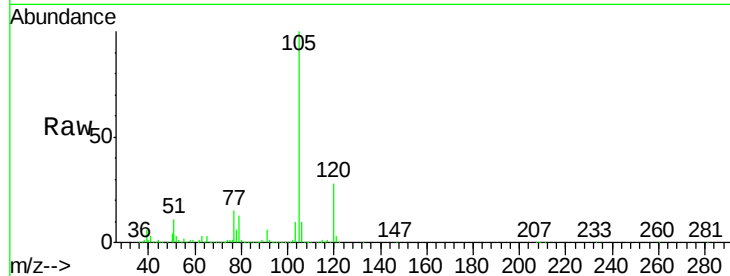
105 100

120 28.0 13.0 38.9

Manual Integrations
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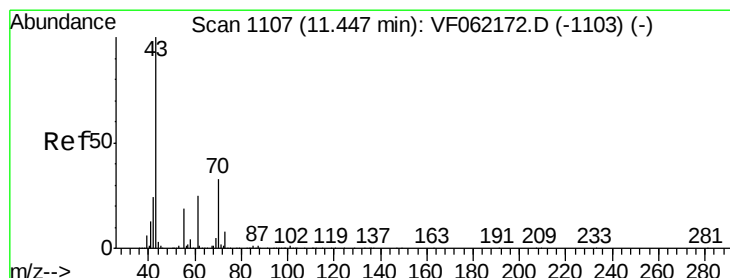
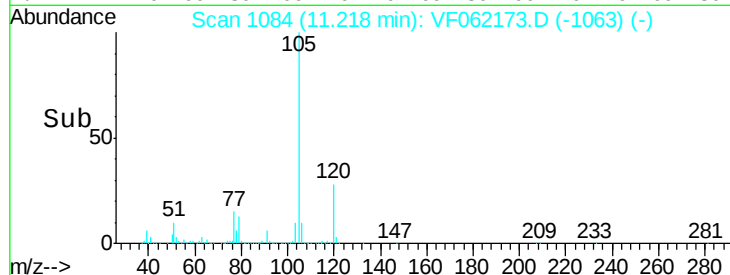
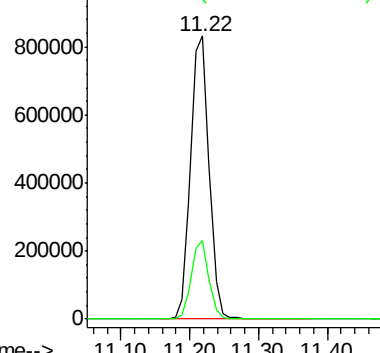
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 64.548 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion: 43 Resp: 377193

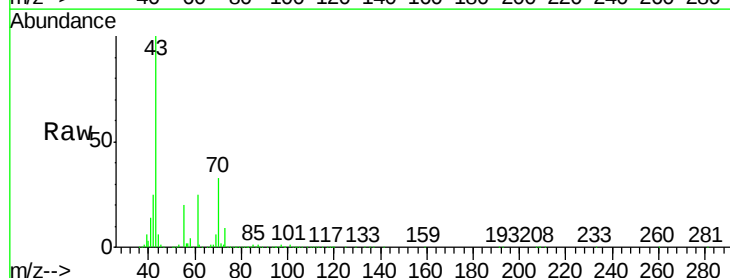
Ion Ratio Lower Upper

43 100

70 32.8 26.6 39.8

55 19.7 15.0 22.6

61 25.0 20.0 30.0

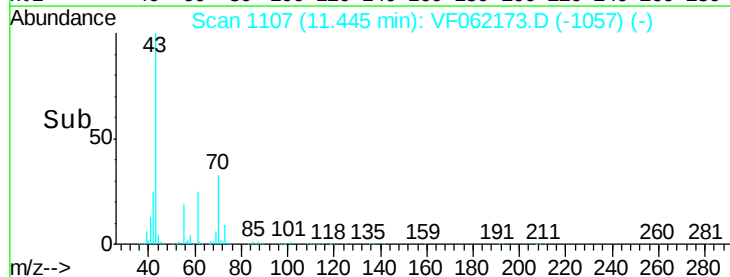
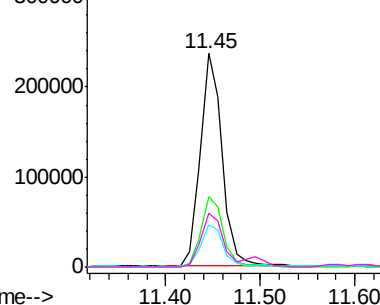


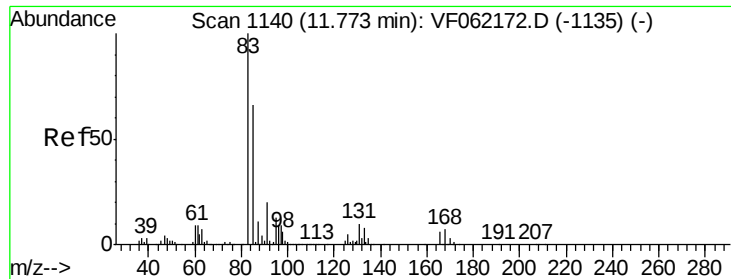
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 71.291 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

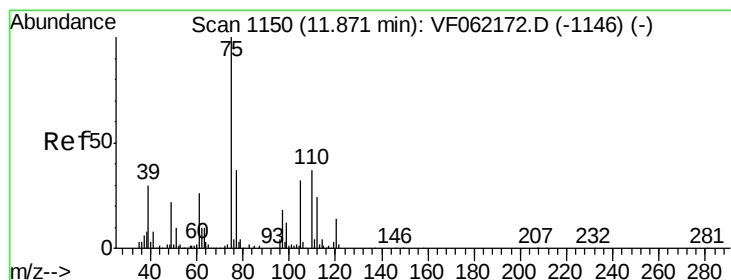
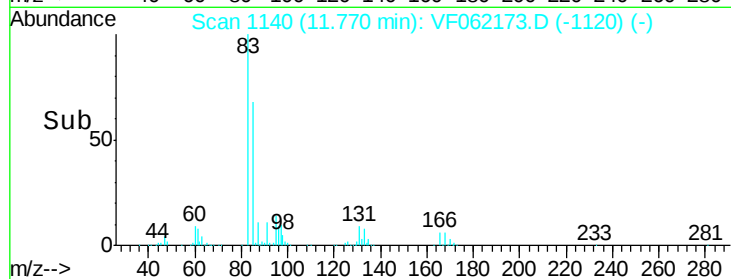
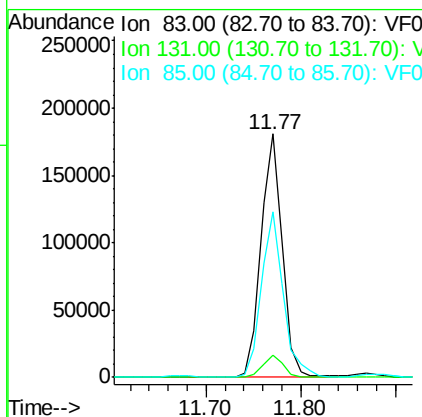
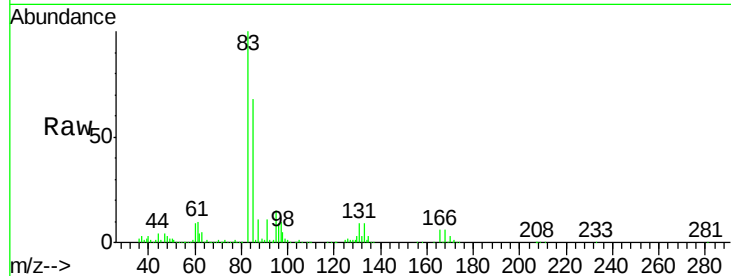
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	284721
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.8	14.4
85	67.8	33.2	99.6

Manual Integrations
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MMDadoda
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#76

1,2,3-Trichloropropane

Concen: 72.748 ug/l

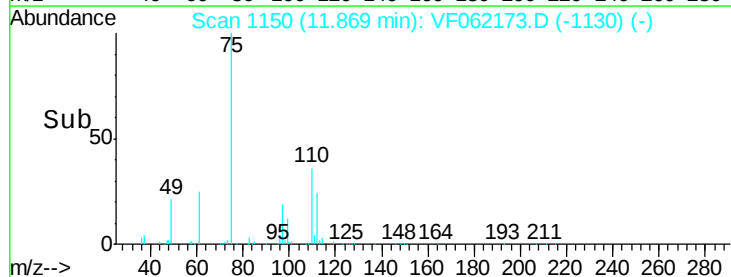
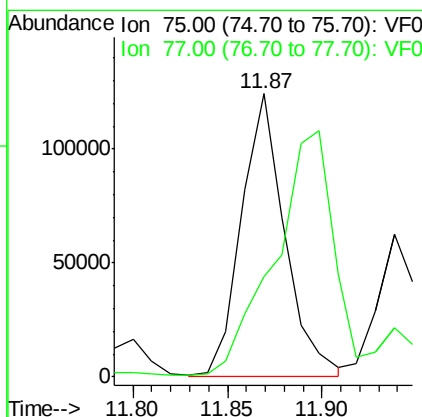
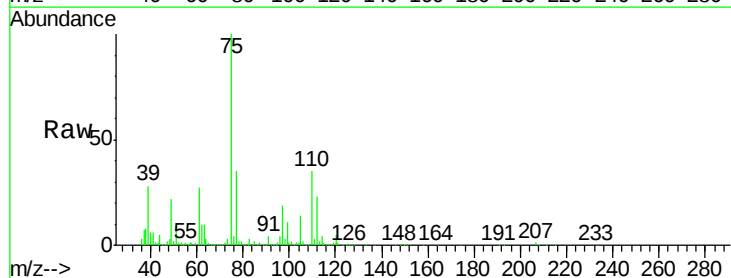
RT: 11.87 min Scan# 1150

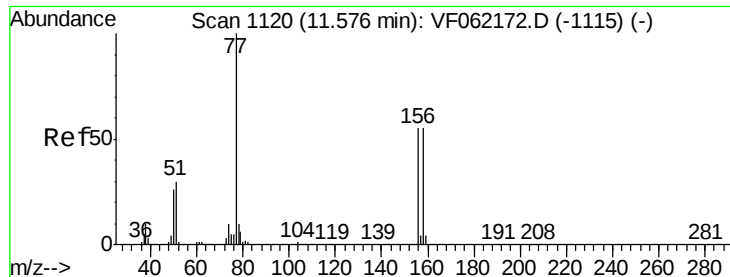
Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	75	Resp:	196866
Ion Ratio	Lower	Upper	
75	100		
77	35.5	18.7	56.1





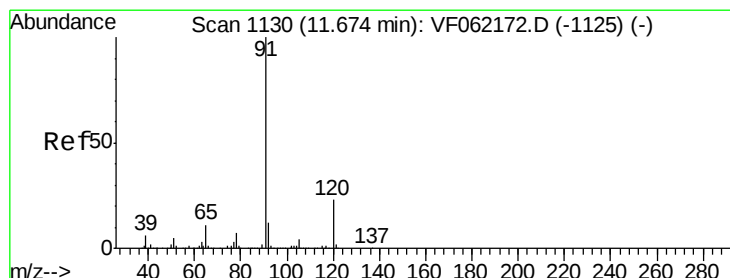
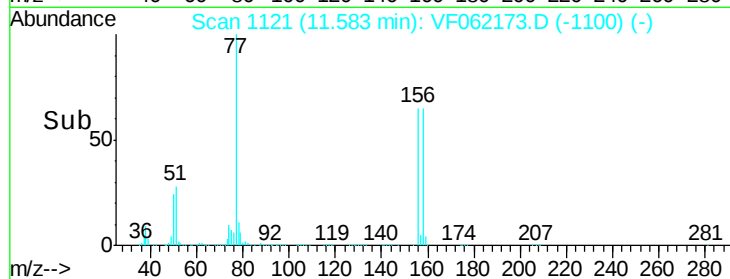
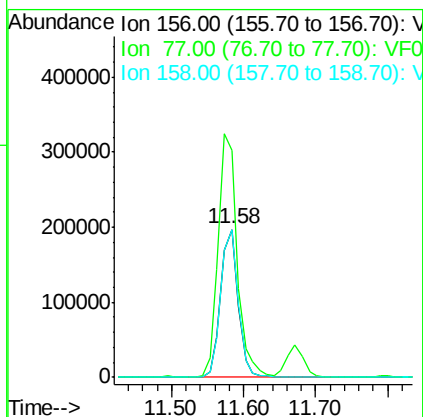
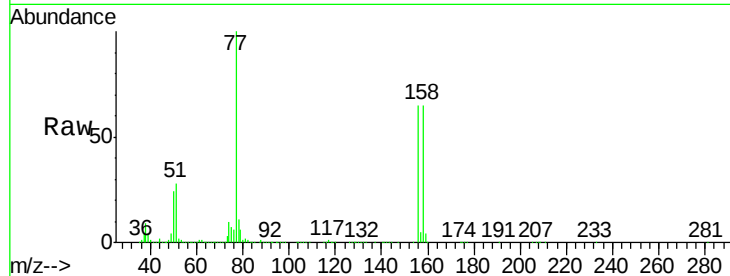
#77
Bromobenzene
Concen: 71.020 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
156	100		
77	153.6	91.1	273.4
158	100.0	50.1	150.4

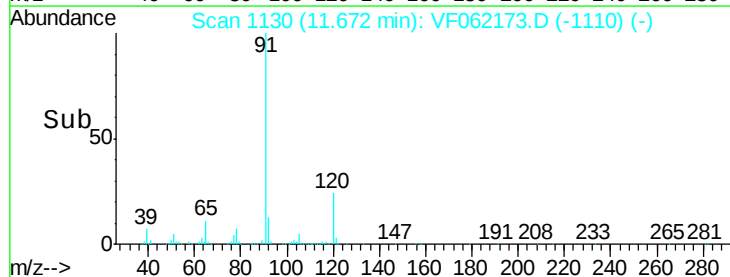
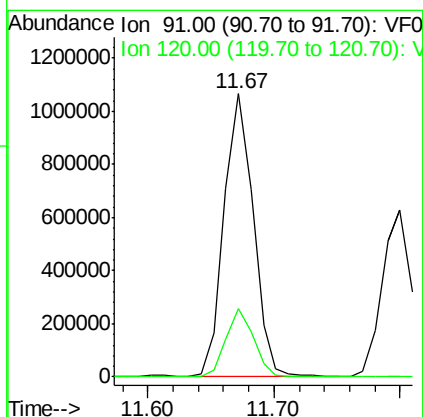
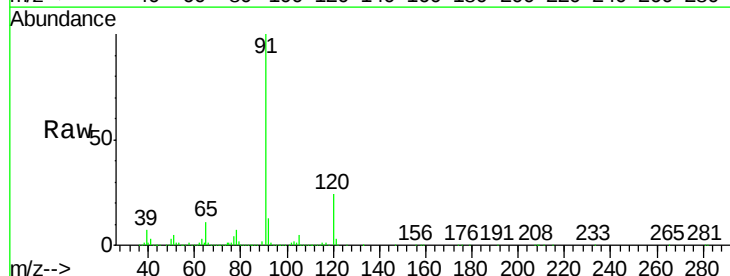
Manual Integrations
APPROVED

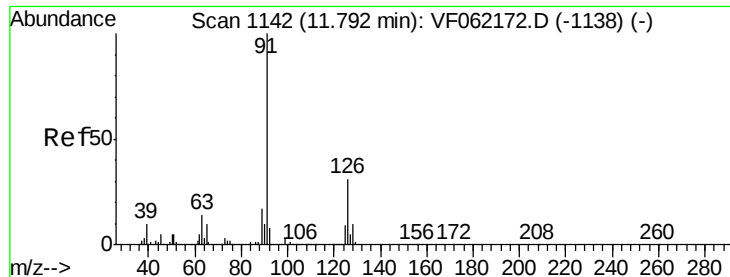
MMDadoda
4/17/2019 11:50:25 AM



#78
n-propylbenzene
Concen: 67.165 ug/l
RT: 11.67 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.0	11.6	34.7





#79

2-Chlorotoluene

Concen: 67.708 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 1017077

Ion Ratio Lower Upper

91 100

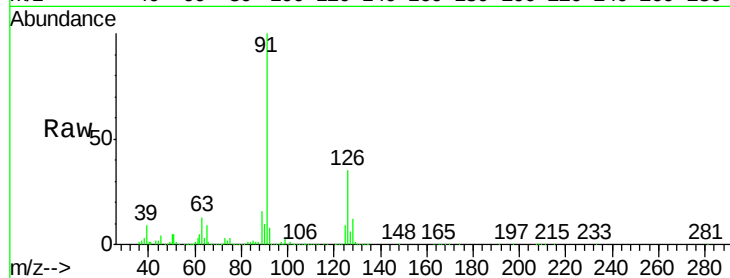
126 35.1 15.6 46.8

Manual Integrations

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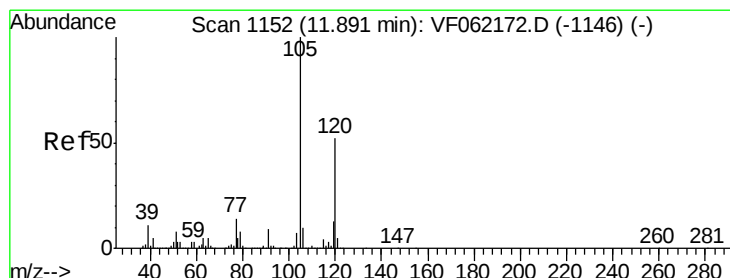
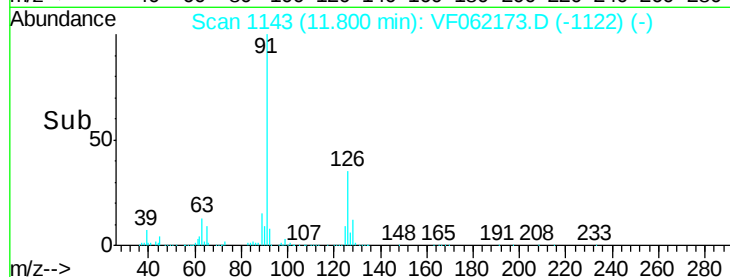
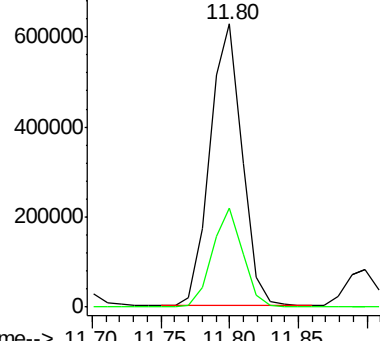
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 67.808 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062173.D

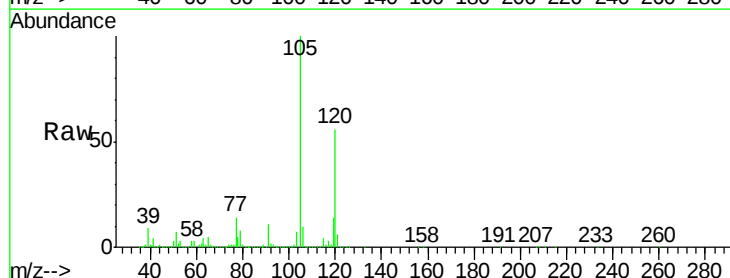
Acq: 16 Apr 2019 12:45

Tgt Ion:105 Resp: 1267895

Ion Ratio Lower Upper

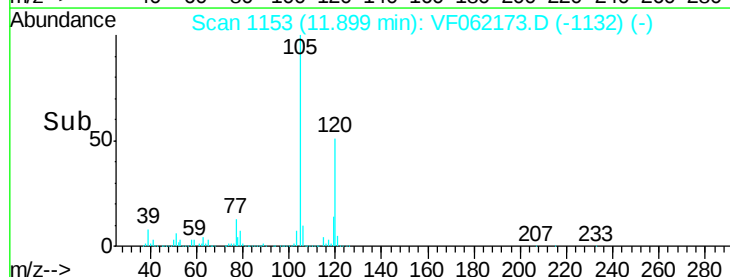
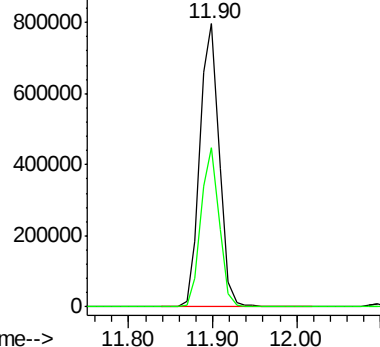
105 100

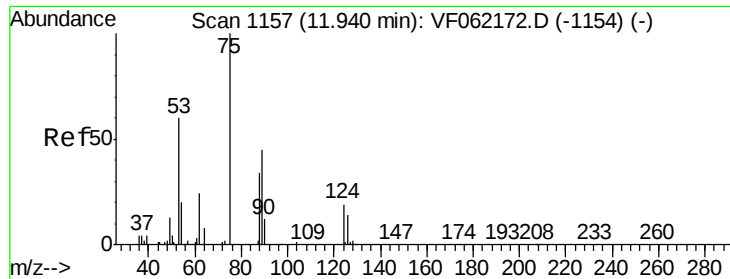
120 56.2 25.9 77.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 63.888 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

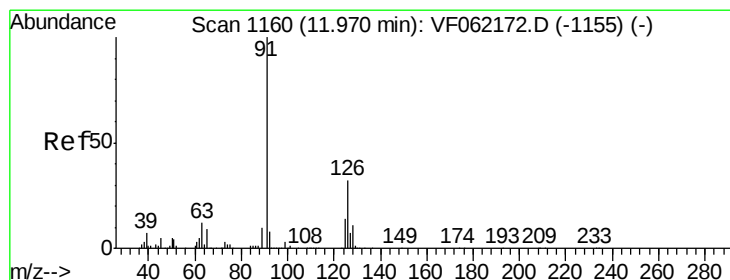
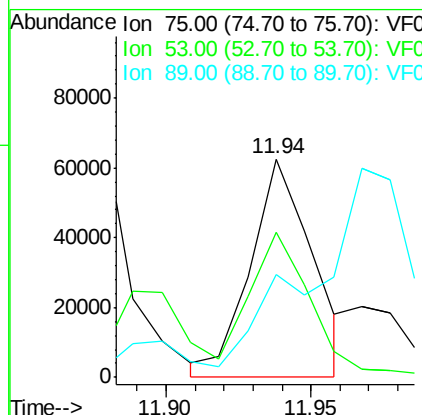
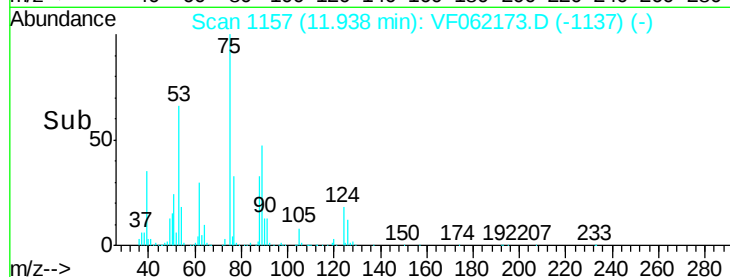
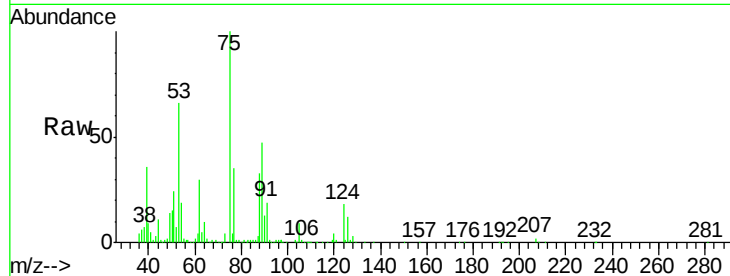
ClientSampleId :

VSTDIC075

Tot Ion:	75	Resp:	93033
Ion Ratio	Lower	Upper	
75	100		
53	66.4	53.4	80.0
89	46.9	38.7	58.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 66.991 ug/l

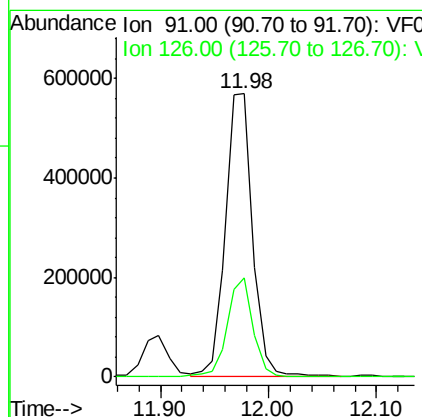
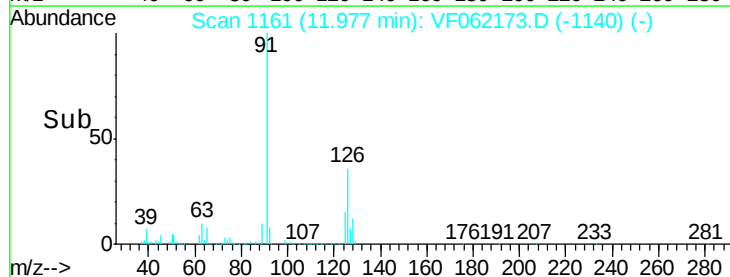
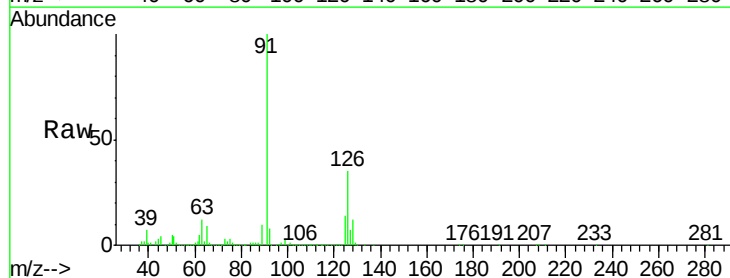
RT: 11.98 min Scan# 1161

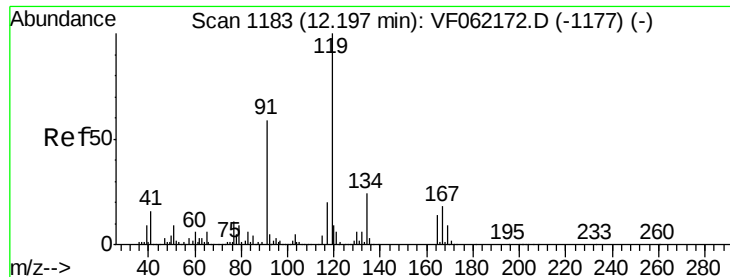
Delta R.T. 0.01 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	91	Resp:	986163
Ion Ratio	Lower	Upper	
91	100		
126	35.2	15.9	47.7





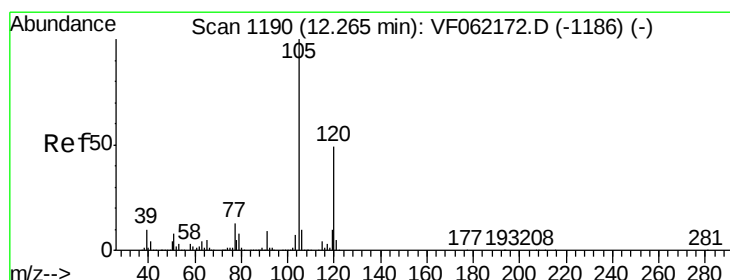
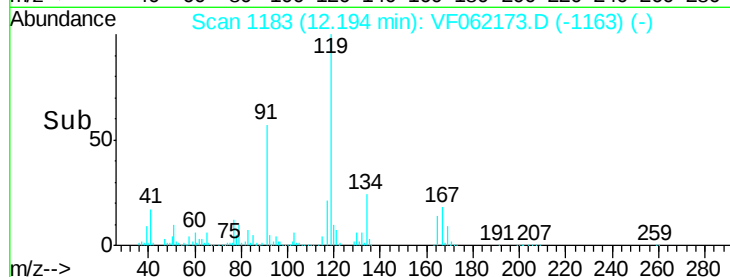
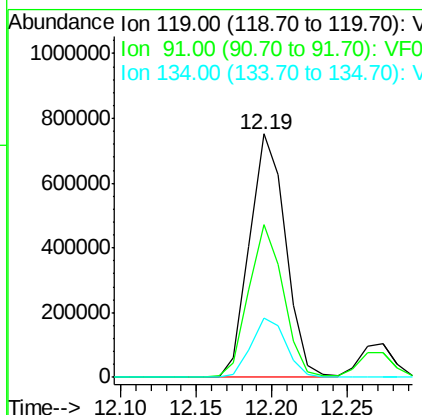
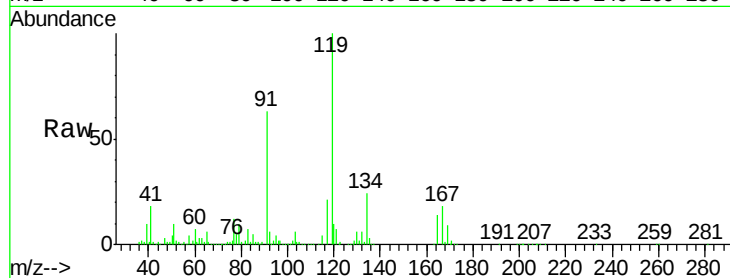
#83
tert-Butylbenzene
Concen: 67.456 ug/l
RT: 12.19 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.7	29.5	88.5
134	24.3	12.0	36.1

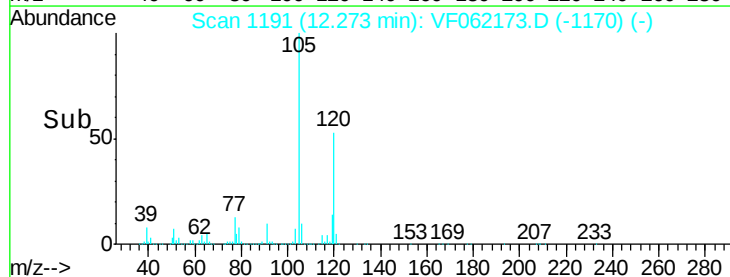
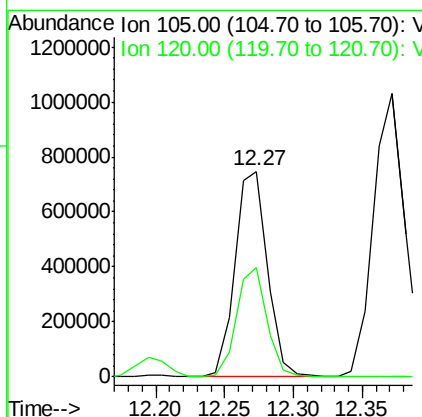
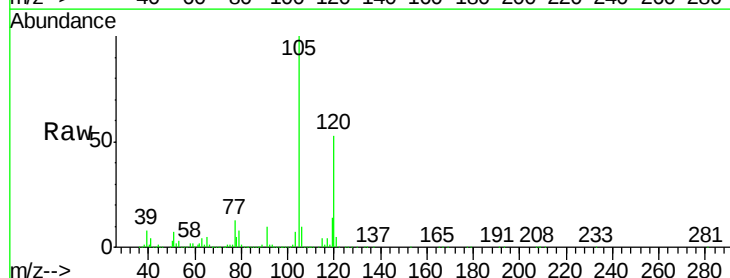
Manual Integrations
APPROVED

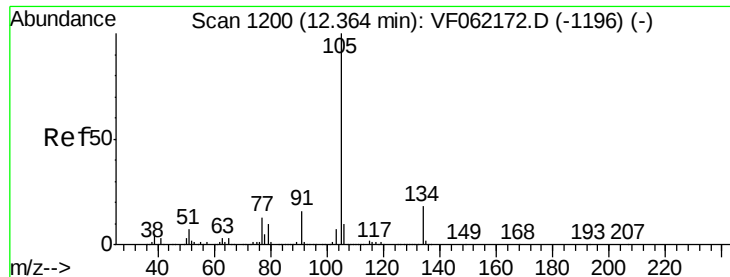
MMDadoda
4/17/2019 11:50:25 AM



#84
1,2,4-Trimethylbenzene
Concen: 67.523 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.9	24.7	74.1





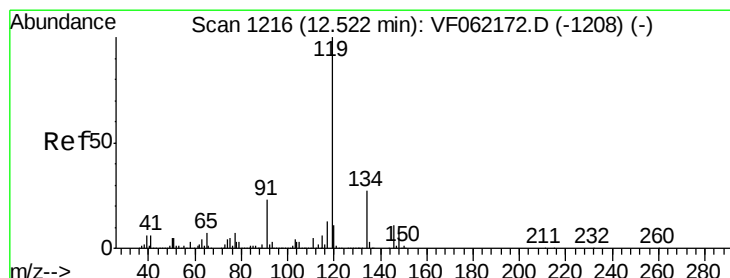
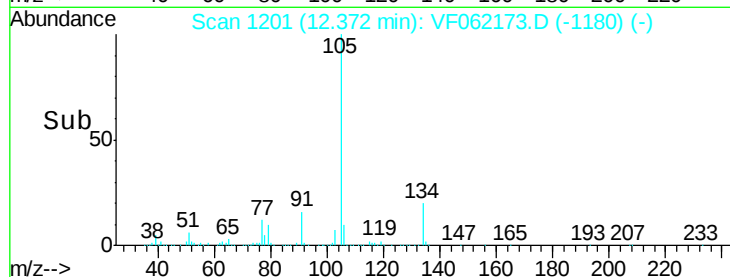
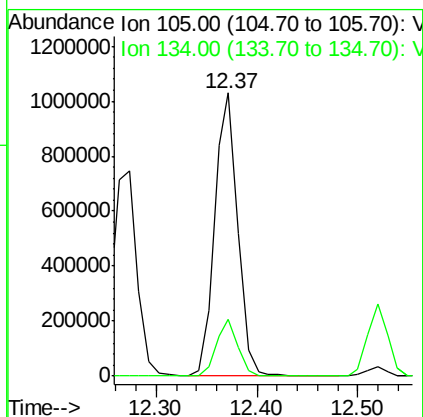
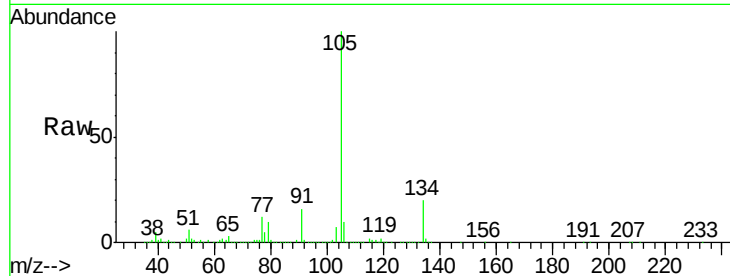
#85
 sec-Butylbenzene
 Concen: 66.719 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion:105 Resp: 1628921
 Ion Ratio Lower Upper
 105 100
 134 20.2 9.0 27.0

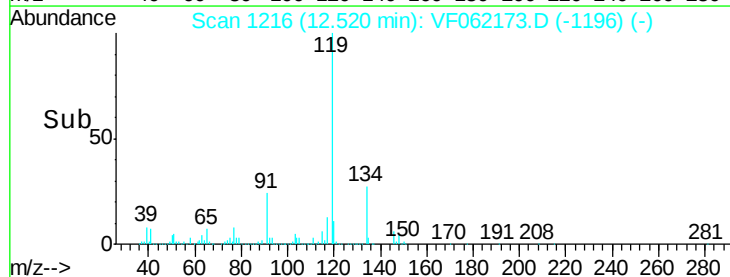
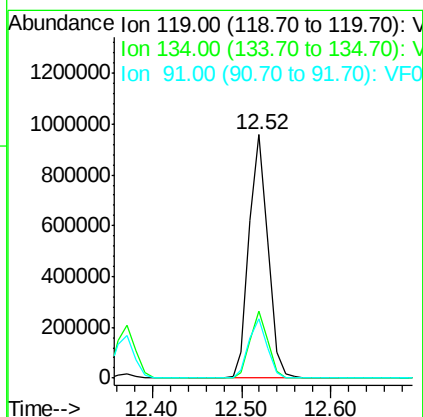
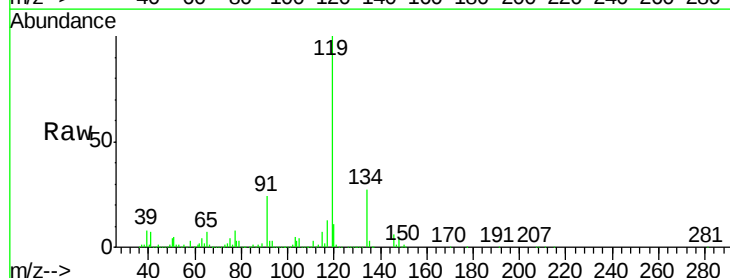
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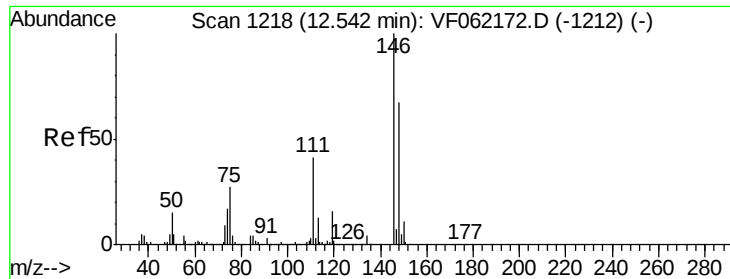
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 4/17/2019 11:50:25 AM



#86
 p-Isopropyltoluene
 Concen: 66.925 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.00 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Tgt Ion:119 Resp: 1391999
 Ion Ratio Lower Upper
 119 100
 134 27.5 13.5 40.5
 91 24.3 11.5 34.5





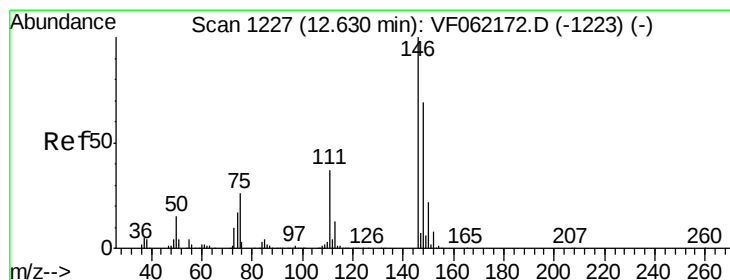
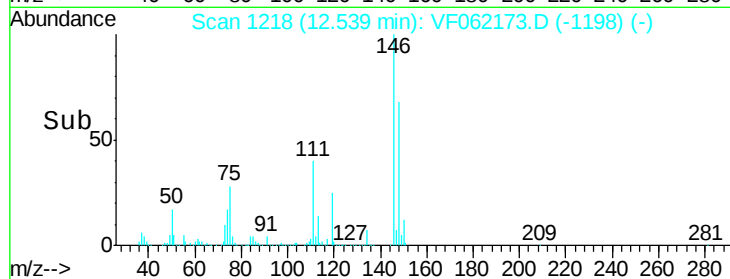
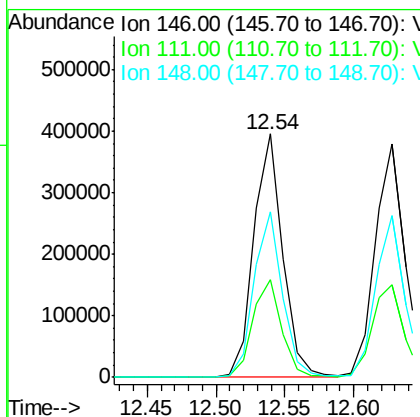
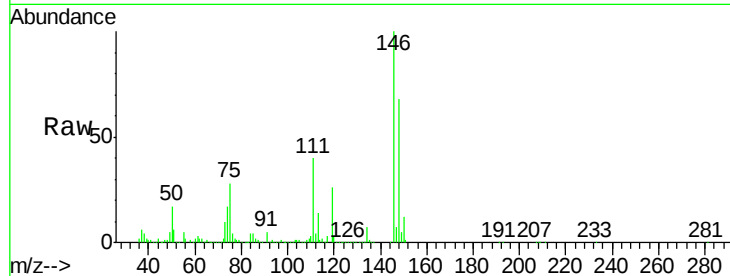
#87
 1,3-Dichlorobenzene
 Concen: 68.198 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.5	61.6
148	67.9	33.6	100.8

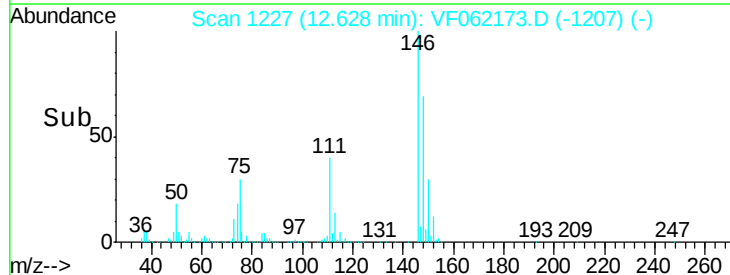
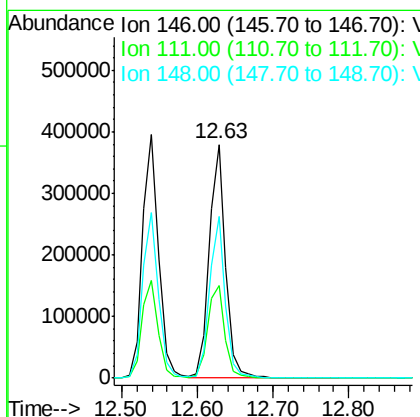
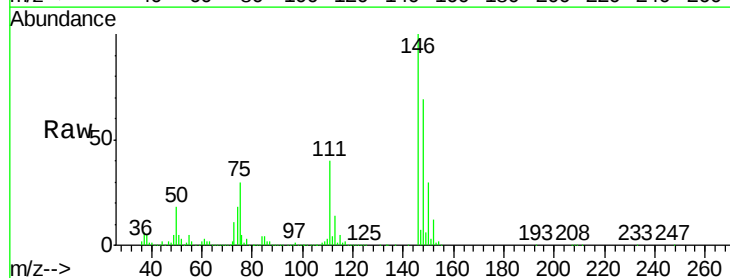
Manual Integrations
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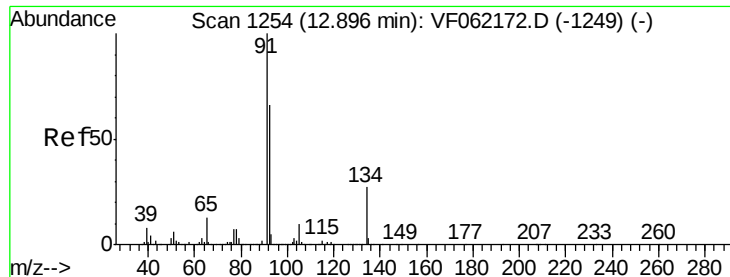
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 4/17/2019 11:50:25 AM



#88
 1,4-Dichlorobenzene
 Concen: 69.055 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	18.6	55.6
148	69.2	34.3	102.8





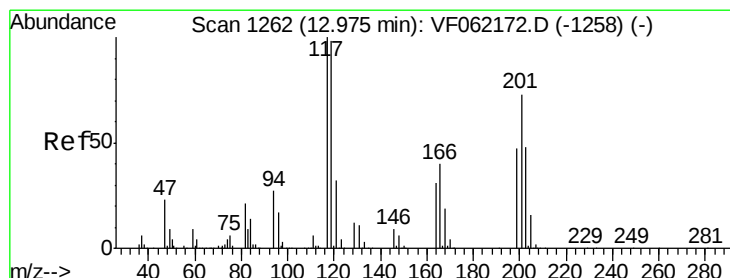
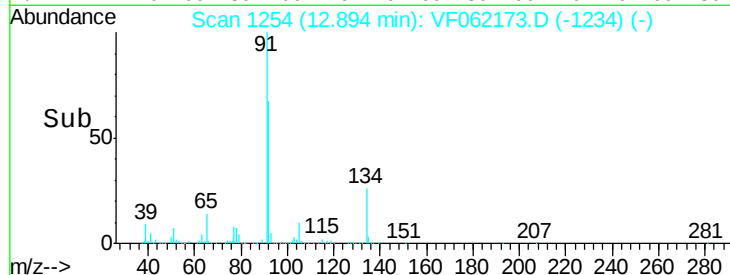
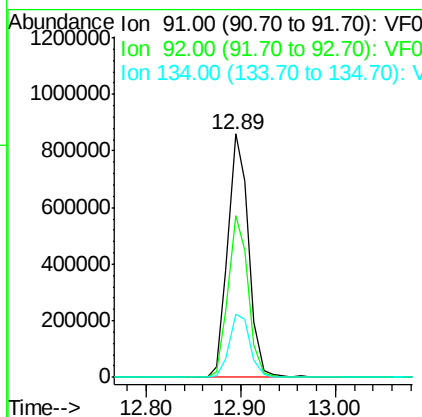
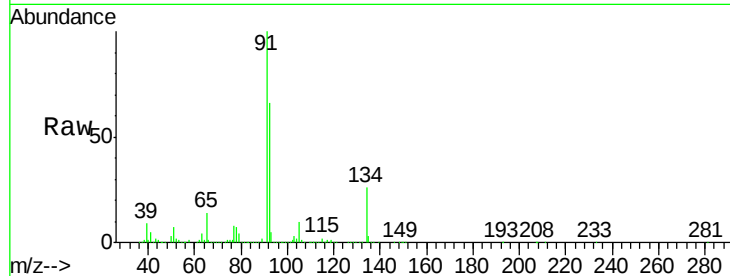
#89
n-Butylbenzene
Concen: 62.540 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	66.5	32.9	98.6	
134	25.8	13.4	40.2	

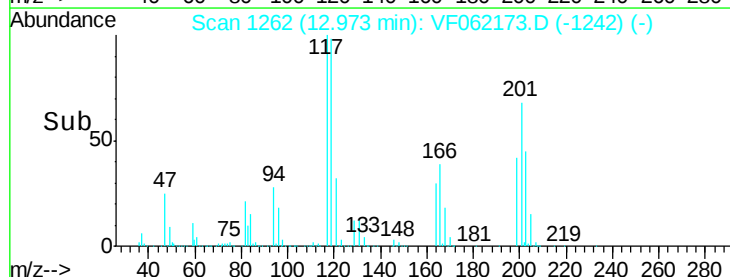
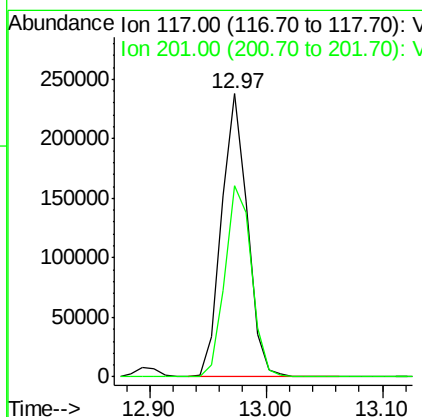
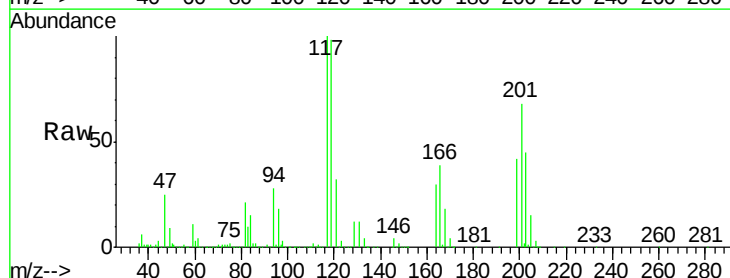
Manual Integrations
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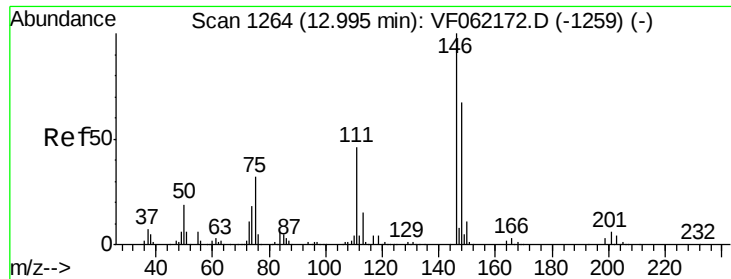
MMDadoda
4/17/2019 11:50:25 AM



#90
Hexachloroethane
Concen: 71.415 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VF062173.D
Acq: 16 Apr 2019 12:45

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
201	67.7	36.7	110.1	





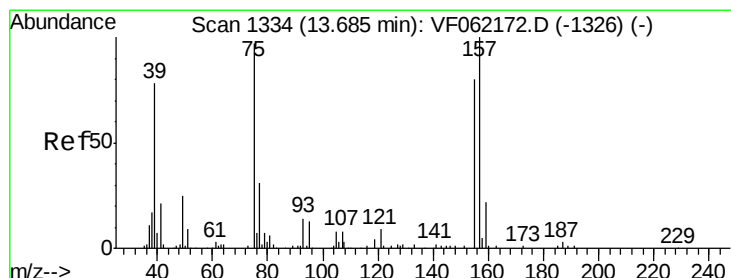
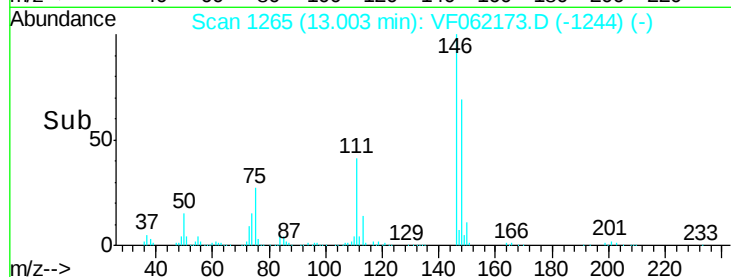
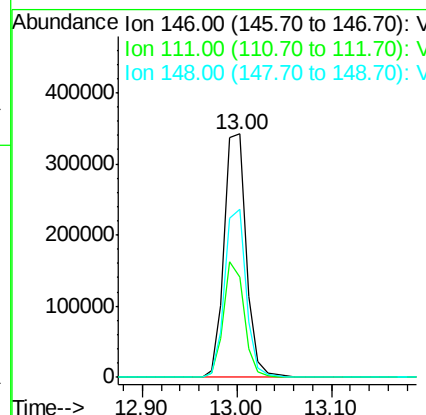
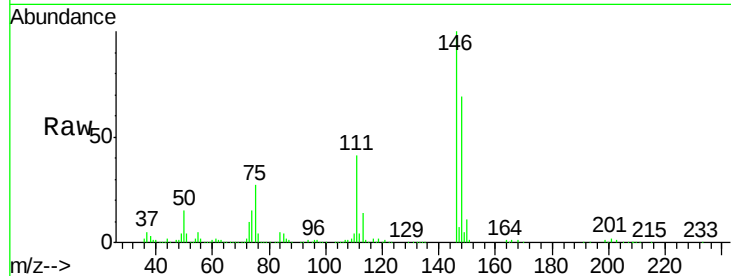
#91
 1,2-Dichlorobenzene
 Concen: 67.572 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	22.9	68.8
148	68.8	33.6	100.6

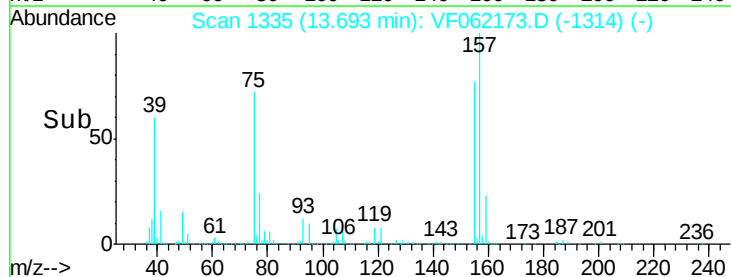
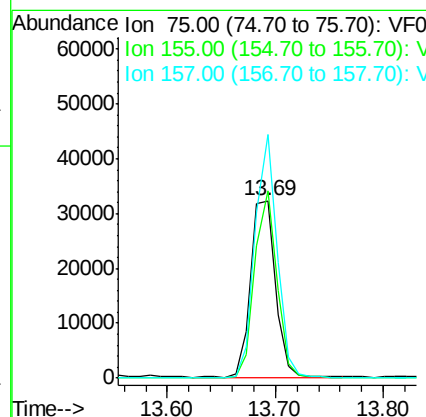
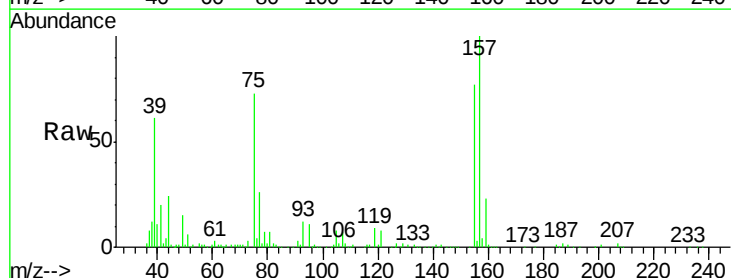
Manual Integrations
 APPROVED

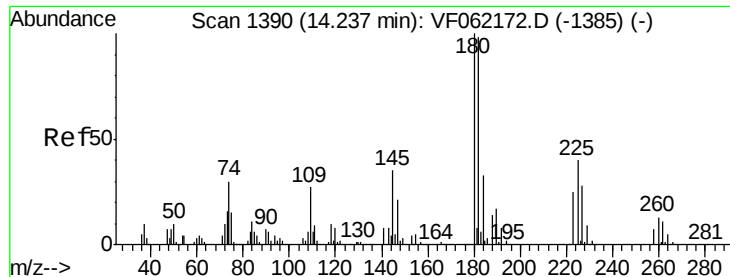
MMDadoda
 4/17/2019 11:50:25 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 72.367 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	105.9	41.0	123.0
157	137.3	51.3	154.0





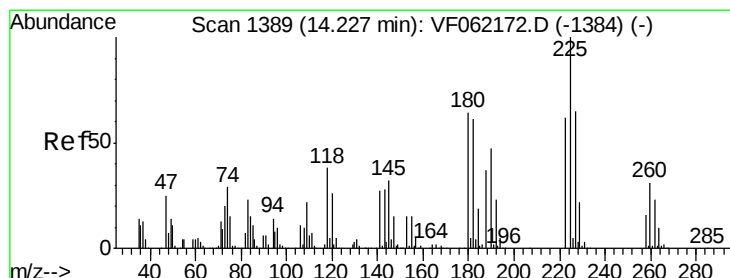
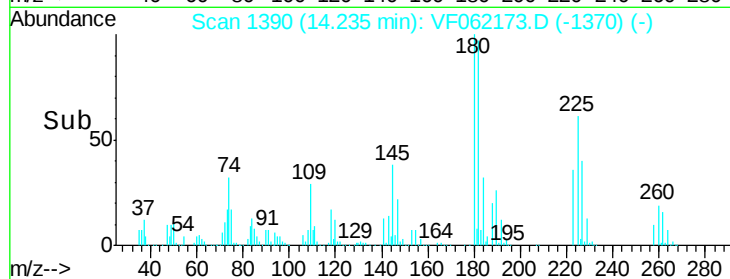
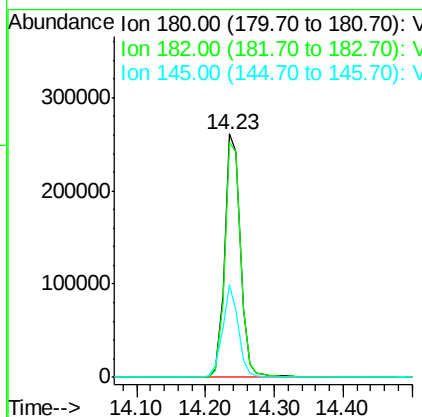
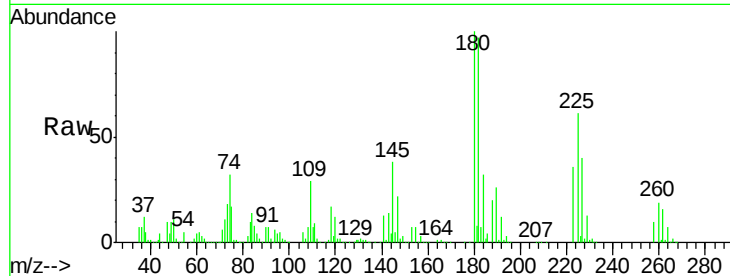
#93
 1,2,4-Trichlorobenzene
 Concen: 67.975 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.6	48.8	146.4	
145	38.0	17.3	52.0	

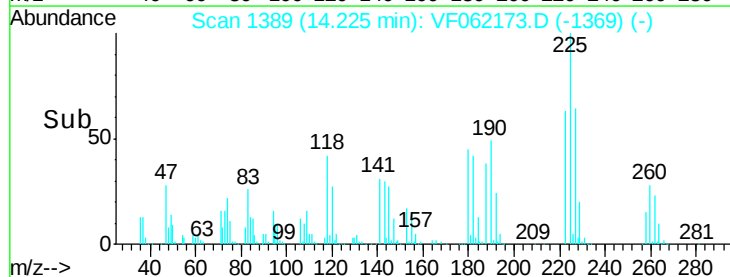
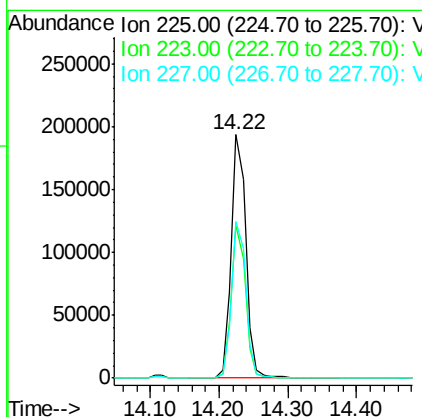
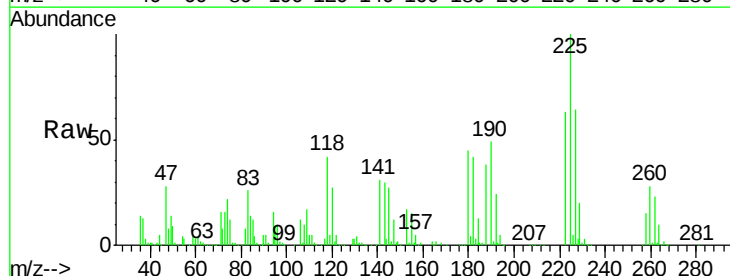
Manual Integrations
 APPROVED

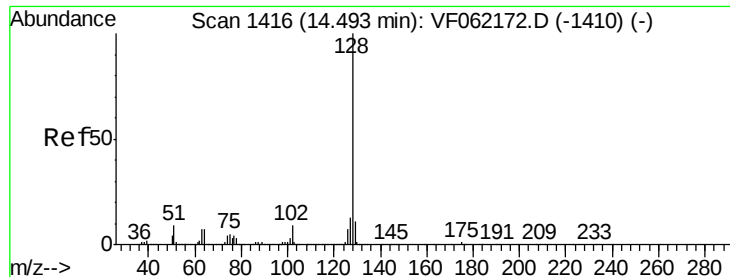
MMDadoda
 4/17/2019 11:50:25 AM



#94
 Hexachlorobutadiene
 Concen: 71.133 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062173.D
 Acq: 16 Apr 2019 12:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.7	30.9	92.7	
227	64.4	32.3	96.9	





#95

Naphthalene

Concen: 74.280 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Instrument :

MSVOA_F

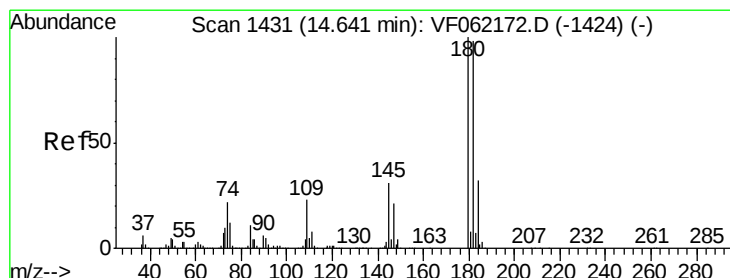
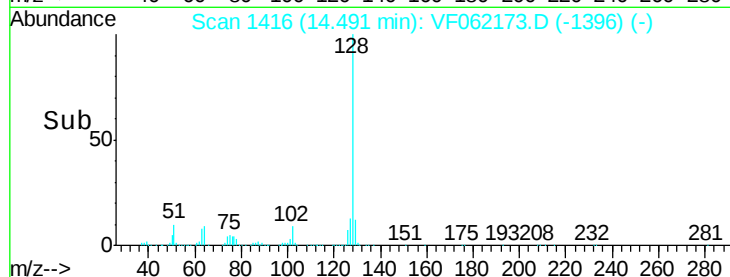
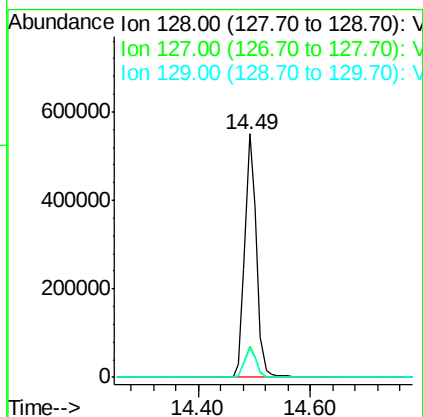
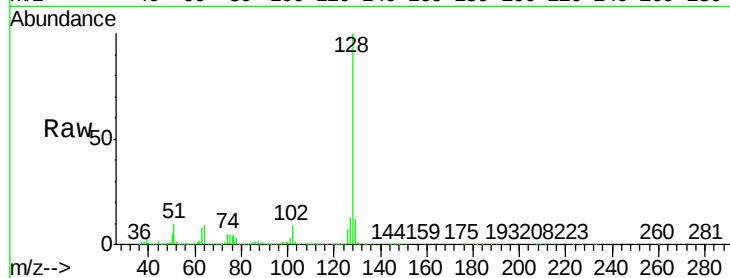
ClientSampleId :

VSTDIC075

Tot Ion:	128	Resp:	797903
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.3	15.5
129	11.8	9.2	13.8

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:50:25 AM



#96

1,2,3-Trichlorobenzene

Concen: 70.047 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062173.D

Acq: 16 Apr 2019 12:45

Tgt Ion:	180	Resp:	401252
Ion Ratio	Lower	Upper	
180	100		
182	100.5	49.0	147.2
145	32.1	15.4	46.2

