

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061019\
 Data File : VF062918.D
 Acq On : 10 Jun 2019 20:45
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 2:54:57 PM

Quant Time: Jun 11 02:11:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	826476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	1383372	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	1064275	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	461638	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	305672	53.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.96%	
35) Dibromofluoromethane	4.32	113	575880	55.09	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	110.18%	
50) Toluene-d8	7.72	98	1389178	52.55	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	105.10%	
62) 4-Bromofluorobenzene	11.49	95	446146	46.92	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	93.84%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	403772	42.534	ug/l	95
3) Chloromethane	1.15	50	404834	47.340	ug/l	93
4) Vinyl Chloride	1.20	62	394964	46.477	ug/l	93
5) Bromomethane	1.41	94	245053	50.564	ug/l	90
6) Chloroethane	1.46	64	161112	50.707	ug/l	97
7) Trichlorofluoromethane	1.57	101	590071m	49.048	ug/l	
8) Diethyl Ether	1.72	74	128026	54.090	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.92	101	368360	48.702	ug/l	96
10) Methyl Iodide	2.00	142	744453	49.089	ug/l	97
11) Tert butyl alcohol	2.70	59	103929	300.184	ug/l	99
12) 1,1-Dichloroethene	1.89	96	335664	48.873	ug/l	91
13) Acrolein	2.10	56	42183	306.847	ug/l	95
14) Allyl chloride	2.21	41	322789	60.581	ug/l	96
15) Acrylonitrile	3.10	53	425876	327.360	ug/l	94
16) Acetone	2.36	43	350928	268.280	ug/l	99
17) Carbon Disulfide	1.93	76	942181	46.936	ug/l	98
18) Methyl Acetate	2.47	43	152959	66.916	ug/l	91
19) Methyl tert-butyl Ether	2.55	73	662473	53.240	ug/l	98
20) Methylene Chloride	2.36	84	357546m	54.876	ug/l	
21) trans-1,2-Dichloroethene	2.44	96	343032	49.814	ug/l	97
22) Diisopropyl ether	2.95	45	863119	57.017	ug/l	98
23) Vinyl Acetate	3.35	43	2789576	269.172	ug/l	99
24) 1,1-Dichloroethane	3.03	63	620230	54.875	ug/l	99
25) 2-Butanone	4.54	43	797556	261.821	ug/l	99
26) 2,2-Dichloropropane	3.79	77	339251	52.862	ug/l	95
27) cis-1,2-Dichloroethene	3.66	96	617640	53.358	ug/l	97
28) Bromochloromethane	3.91	49	330774	53.802	ug/l	97
29) Tetrahydrofuran	4.28	42	345409	296.468	ug/l	99
30) Chloroform	4.06	83	841534	52.829	ug/l	95
31) Cyclohexane	3.89	56	739173m	48.305	ug/l	
32) 1,1,1-Trichloroethane	4.31	97	539155	58.132	ug/l	96
36) 1,1-Dichloropropene	4.49	75	669557	52.575	ug/l	98
37) Ethyl Acetate	4.32	43	282094	57.946	ug/l	100
38) Carbon Tetrachloride	4.20	117	444858	51.686	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061019\
 Data File : VF062918.D
 Acq On : 10 Jun 2019 20:45
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 2:54:57 PM

Quant Time: Jun 11 02:11:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	809972	51.102	ug/l	97
40) Benzene	4.83	78	1869523	50.440	ug/l	99
41) Methacrylonitrile	4.95	41	151701	56.054	ug/l	93
42) 1,2-Dichloroethane	5.14	62	391092	55.479	ug/l	99
43) Isopropyl Acetate	7.13	43	324800	50.506	ug/l #	98
44) Trichloroethene	5.70	130	552226	52.792	ug/l	96
45) 1,2-Dichloropropane	6.42	63	505159	54.312	ug/l	97
46) Dibromomethane	6.27	93	294666	54.263	ug/l	95
47) Bromodichloromethane	6.57	83	593723	53.685	ug/l	97
48) Methyl methacrylate	6.88	41	185501	55.970	ug/l	93
49) 1,4-Dioxane	6.88	88	51230	1172.685	ug/l #	78
51) 4-Methyl-2-Pentanone	8.41	43	1196462	260.592	ug/l	100
52) Toluene	7.79	92	1043245	52.259	ug/l	96
53) t-1,3-Dichloropropene	8.43	75	481562	52.548	ug/l	99
54) cis-1,3-Dichloropropene	7.47	75	669763	50.489	ug/l	98
55) 1,1,2-Trichloroethane	8.65	97	323966	54.321	ug/l	97
56) Ethyl methacrylate	8.76	69	336581	52.598	ug/l	98
57) 1,3-Dichloropropane	9.00	76	530392	54.459	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.45	63	690712	308.845	ug/l	99
59) 2-Hexanone	9.63	43	841368	257.099	ug/l	99
60) Dibromochloromethane	8.87	129	415889	56.325	ug/l	98
61) 1,2-Dibromoethane	9.14	107	340190	54.923	ug/l	98
64) Tetrachloroethene	8.31	164	412933	50.491	ug/l	98
65) Chlorobenzene	9.94	112	1040252	50.614	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	420682	51.395	ug/l	97
67) Ethyl Benzene	10.04	91	1742462	49.404	ug/l	99
68) m/p-Xylenes	10.26	106	1240825	91.938	ug/l	94
69) o-Xylene	10.82	106	656807	48.066	ug/l	99
70) Styrene	10.89	104	1000252	49.663	ug/l	99
71) Bromoform	10.88	173	216697	55.186	ug/l #	99
73) Isopropylbenzene	11.22	105	1741368	54.061	ug/l	97
74) N-amyl acetate	11.46	43	481973	53.089	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	391998	56.987	ug/l	94
76) 1,2,3-Trichloropropane	11.87	75	246322	54.022	ug/l	90
77) Bromobenzene	11.58	156	427671	52.842	ug/l	87
78) n-propylbenzene	11.67	91	1994752	51.288	ug/l	94
79) 2-Chlorotoluene	11.80	91	1179341	52.994	ug/l	98
80) 1,3,5-Trimethylbenzene	11.90	105	1383210	52.509	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.94	75	112541m	58.299	ug/l	
82) 4-Chlorotoluene	11.98	91	1126954	51.529	ug/l	100
83) tert-Butylbenzene	12.20	119	1478848	56.657	ug/l	95
84) 1,2,4-Trimethylbenzene	12.27	105	1362664	54.560	ug/l	99
85) sec-Butylbenzene	12.37	105	1885423	54.819	ug/l	99
86) p-Isopropyltoluene	12.52	119	1523064	53.202	ug/l	96
87) 1,3-Dichlorobenzene	12.54	146	725130	50.803	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	692816	52.011	ug/l	98
89) n-Butylbenzene	12.90	91	1502187	52.164	ug/l	97
90) Hexachloroethane	12.97	117	420343	60.201	ug/l	84
91) 1,2-Dichlorobenzene	13.00	146	665900	53.078	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.69	75	53376	71.223	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF061019\
Data File : VF062918.D
Acq On : 10 Jun 2019 20:45
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM

Quant Time: Jun 11 02:11:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	486134	56.435	ug/l	99
94) Hexachlorobutadiene	14.24	225	336737	56.507	ug/l	98
95) Naphthalene	14.49	128	893719	63.329	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	466497	59.327	ug/l	98

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

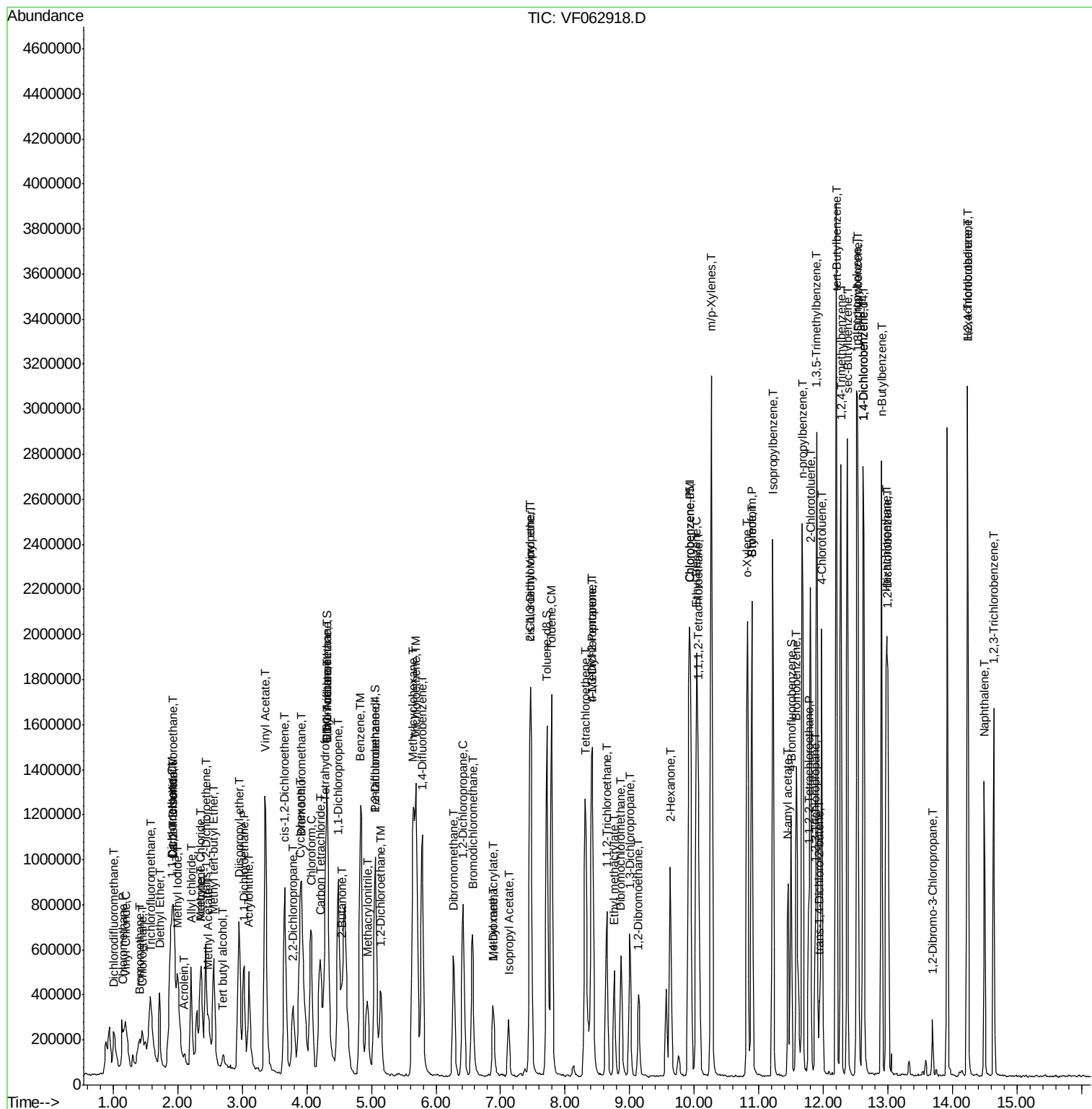
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF061019\
Data File : VF062918.D
Acq On : 10 Jun 2019 20:45
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00µL/MSVOA F/SOIL
ALS Vial : 16 Sample Multiplier: 1

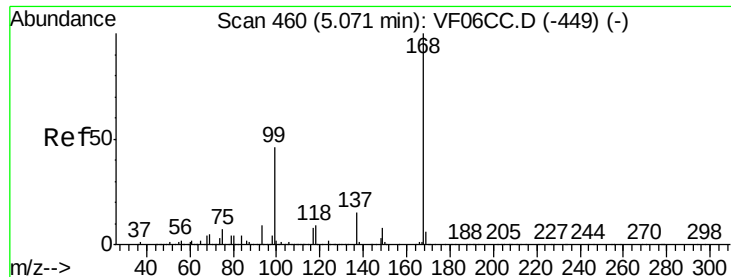
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM

Quant Time: Jun 11 02:11:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 826476

Ion Ratio Lower Upper

168 100

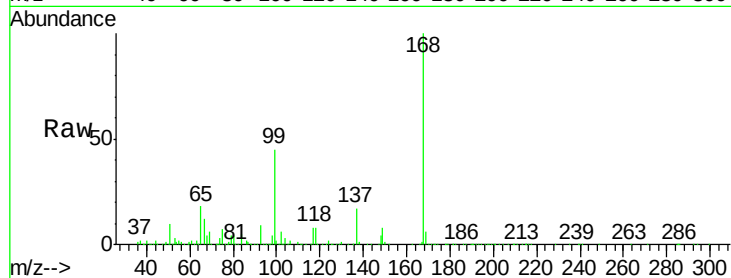
99 45.4 39.1 58.7

Manual Integrations

APPROVED

MMDadoda

6/11/2019 2:54:57 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

300000

250000

200000

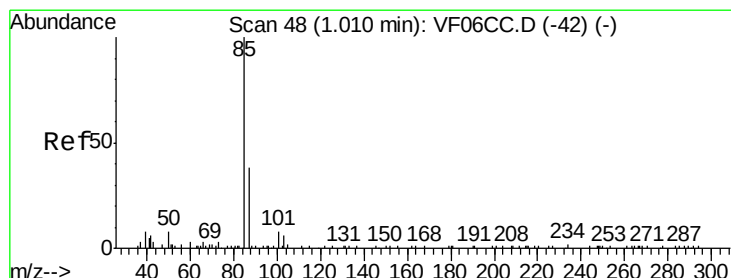
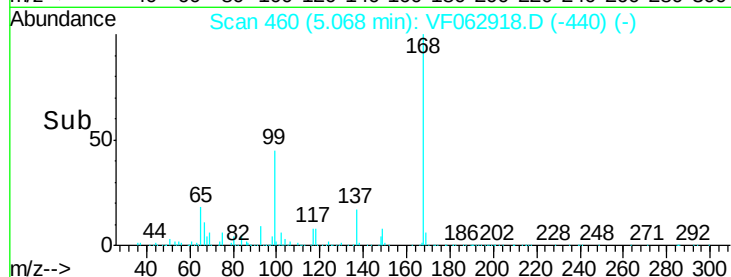
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#2

Dichlorodifluoromethane

Concen: 42.534 ug/l

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062918.D

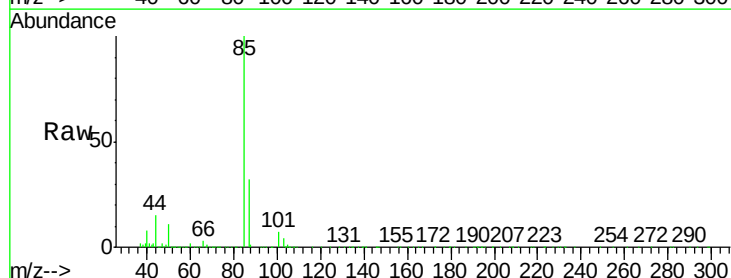
Acq: 10 Jun 2019 20:45

Tgt Ion: 85 Resp: 403772

Ion Ratio Lower Upper

85 100

87 32.1 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

120000

100000

80000

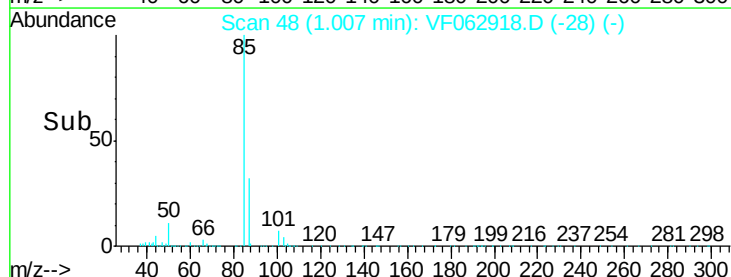
60000

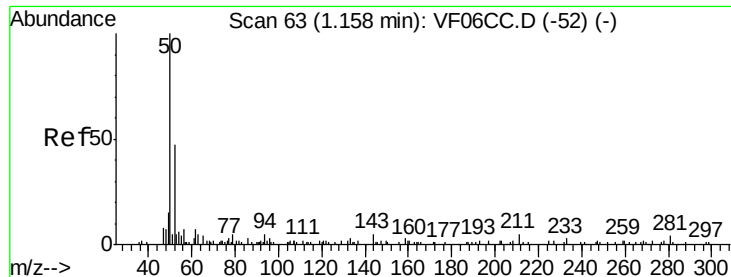
40000

20000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 47.340 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 404834

Ion Ratio Lower Upper

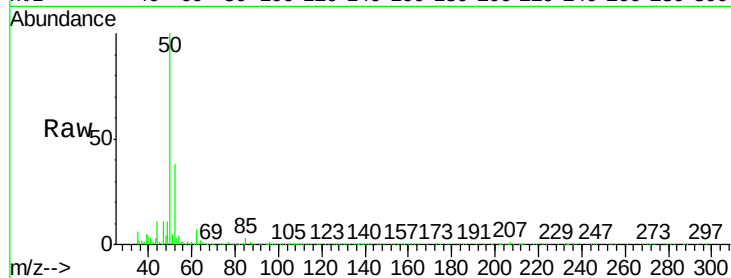
50 100

52 37.8 27.0 40.4

Manual Integrations
APPROVED

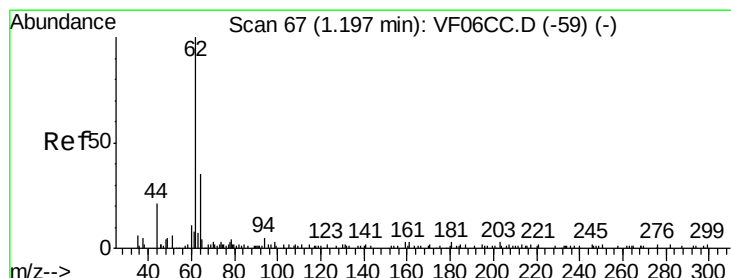
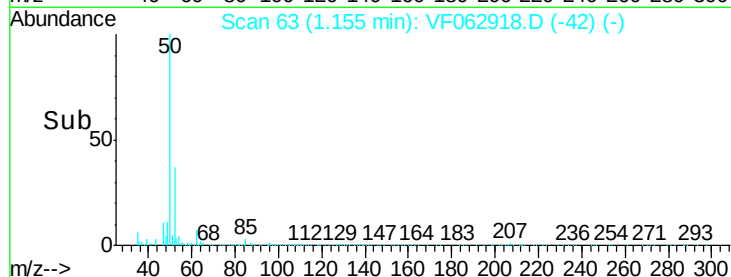
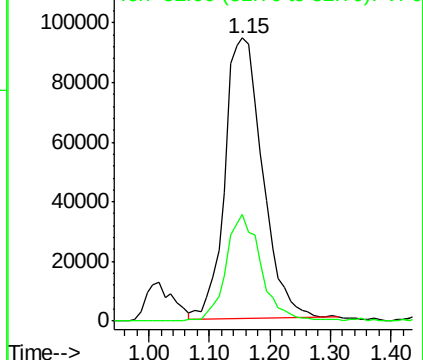
MMDadoda

6/11/2019 2:54:57 PM



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 46.477 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.00 min

Lab File: VF062918.D

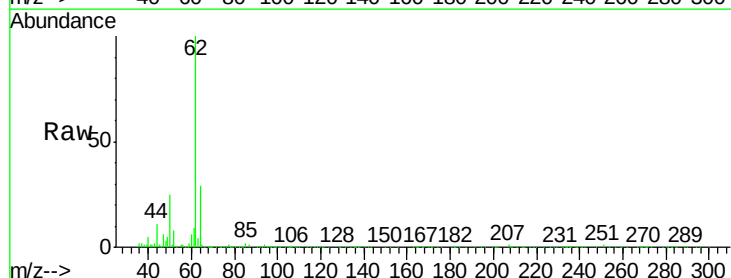
Acq: 10 Jun 2019 20:45

Tgt Ion: 62 Resp: 394964

Ion Ratio Lower Upper

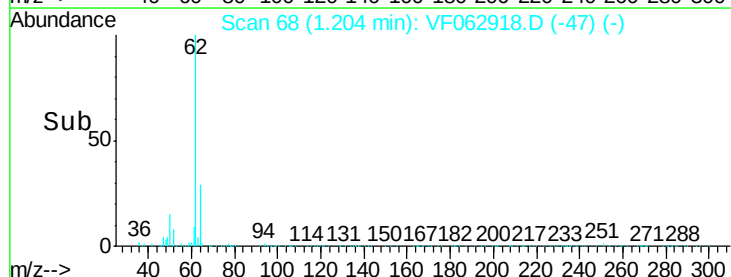
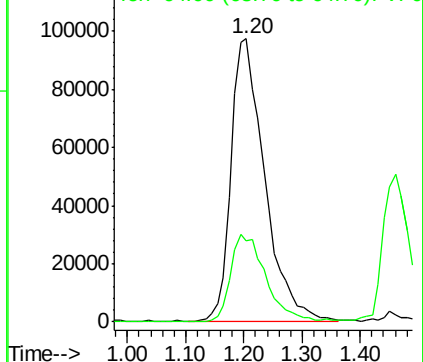
62 100

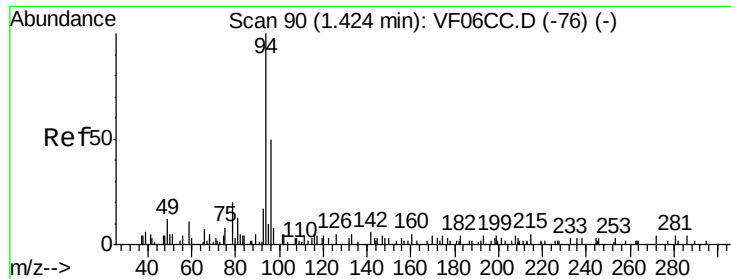
64 28.7 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 50.564 ug/l

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tot Ion: 94 Resp: 245053

Ion Ratio Lower Upper

94 100

96 82.9 73.8 110.6

Instrument :

MSVOA_F

ClientSampleId :

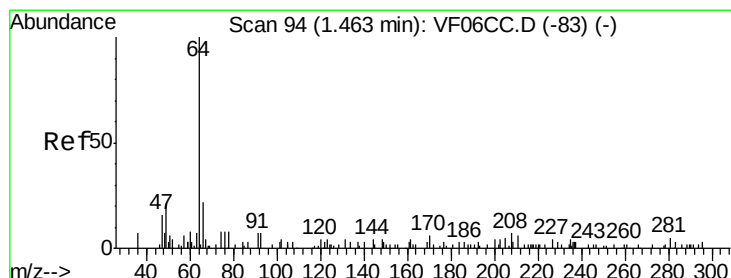
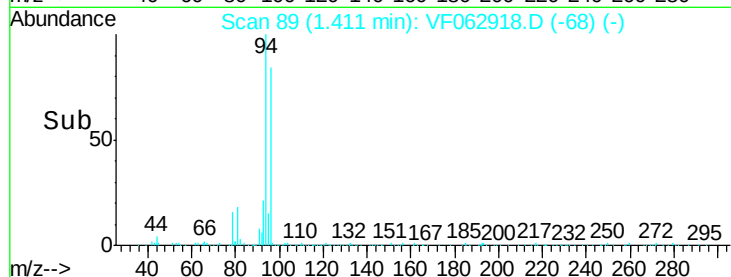
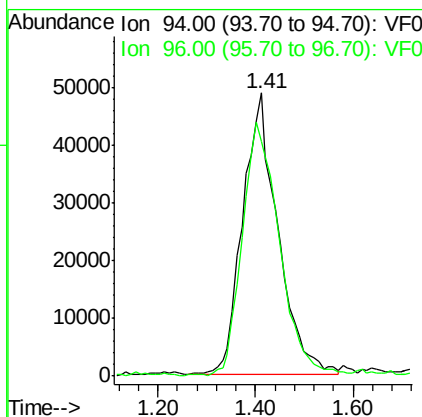
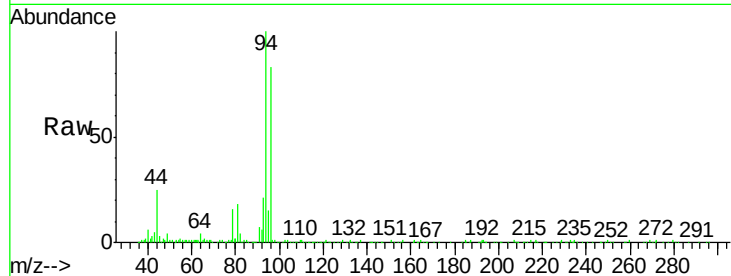
VSTDCCC050EC

Manual Integrations

APPROVED

MMDadoda

6/11/2019 2:54:57 PM



#6

Chloroethane

Concen: 50.707 ug/l

RT: 1.46 min Scan# 94

Delta R.T. -0.01 min

Lab File: VF062918.D

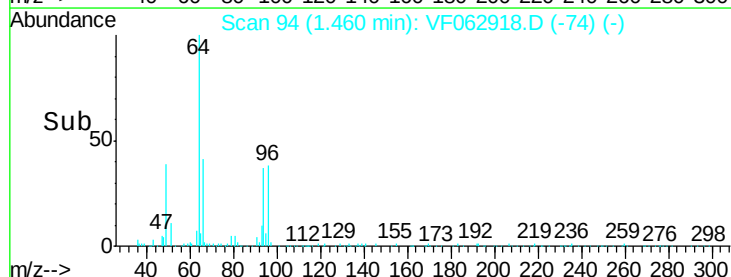
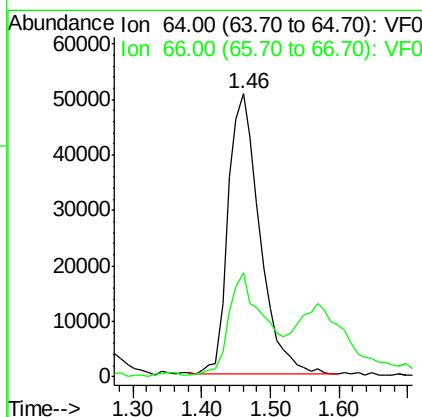
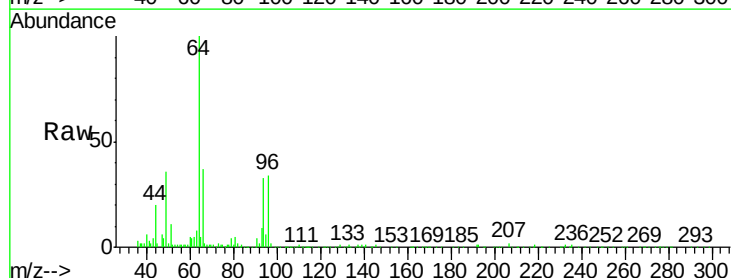
Acq: 10 Jun 2019 20:45

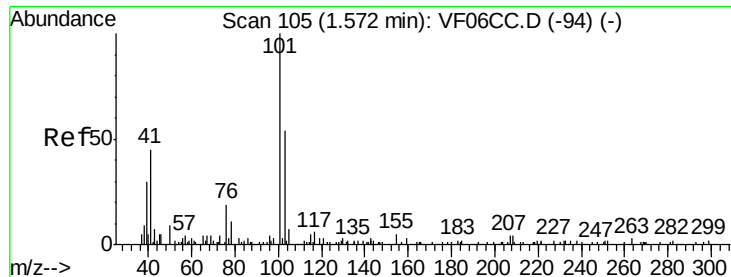
Tgt Ion: 64 Resp: 161112

Ion Ratio Lower Upper

64 100

66 36.9 31.0 46.4





#7

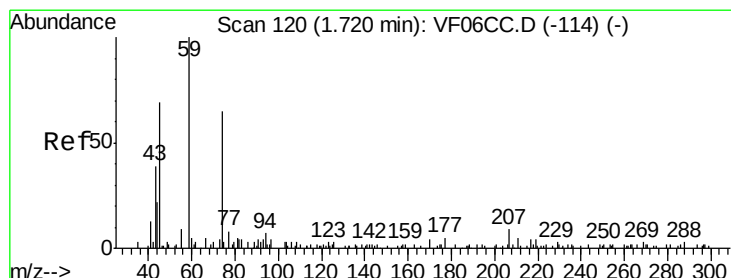
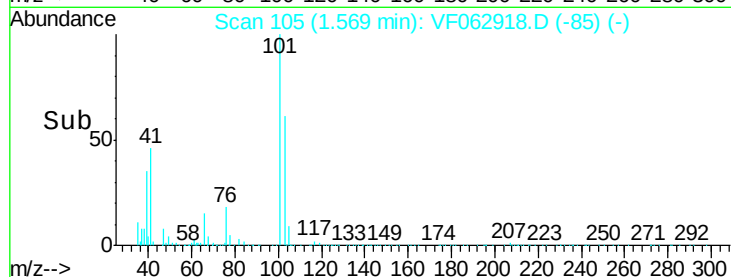
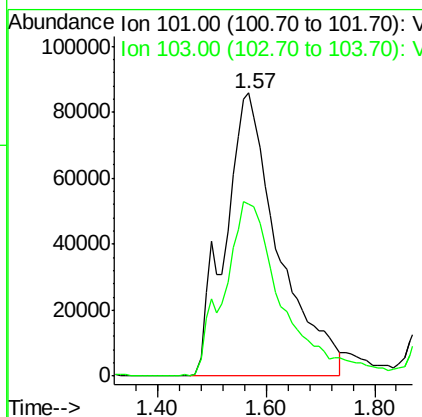
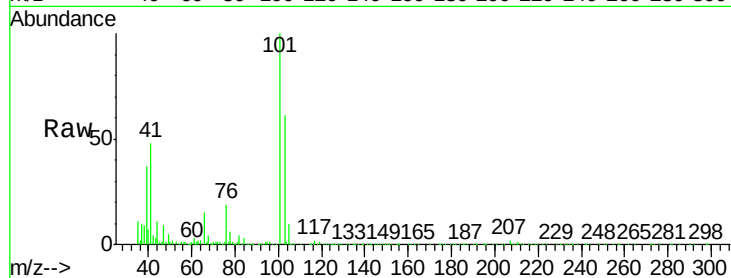
Trichlorofluoromethane
Concen: 49.048 ug/l m
RT: 1.57 min Scan# 105
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.7	54.6	82.0

Manual Integrations
APPROVED

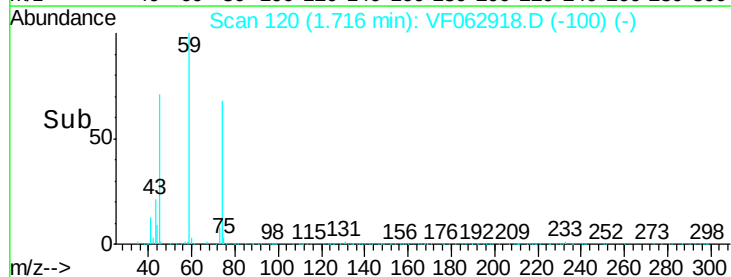
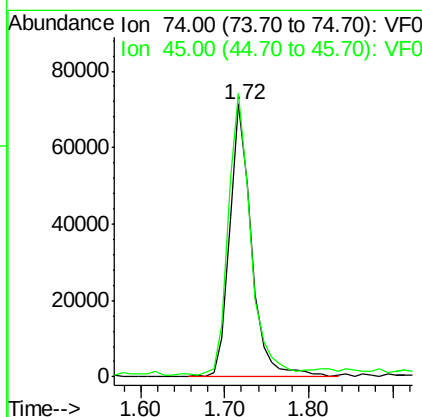
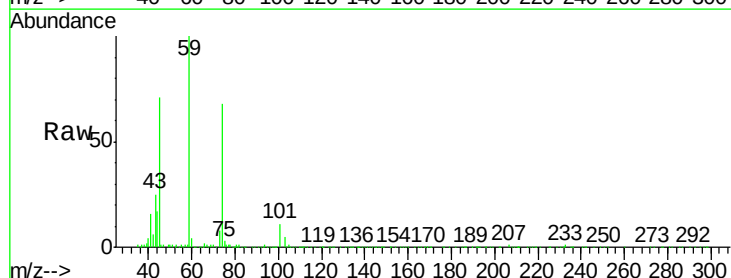
MMDadoda
6/11/2019 2:54:57 PM

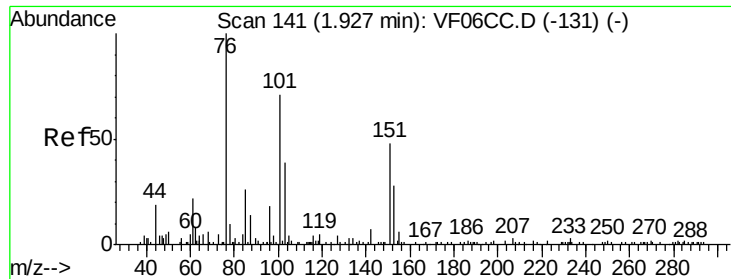


#8

Diethyl Ether
Concen: 54.090 ug/l
RT: 1.72 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
74	100		
45	103.7	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.702 ug/l

RT: 1.92 min Scan# 141

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

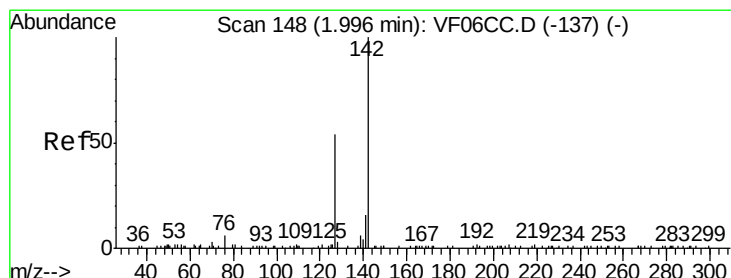
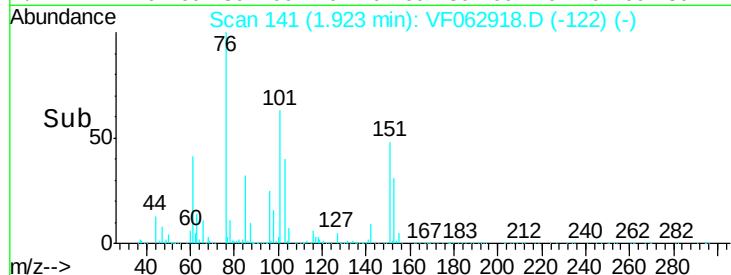
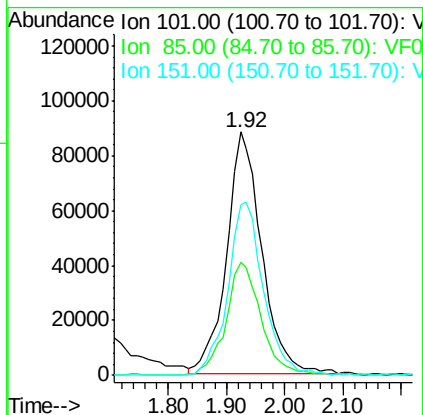
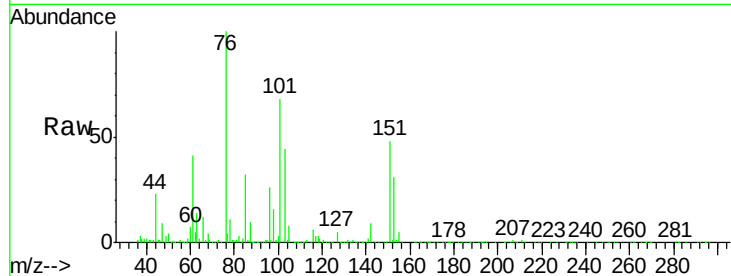
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	368360
Ion Ratio	Lower	Upper	
101	100		
85	46.5	37.1	55.7
151	70.1	60.3	90.5

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#10

Methyl Iodide

Concen: 49.089 ug/l

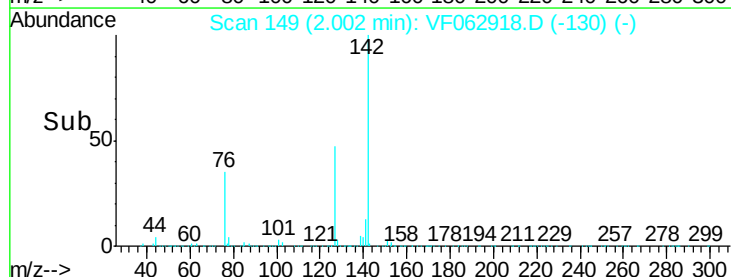
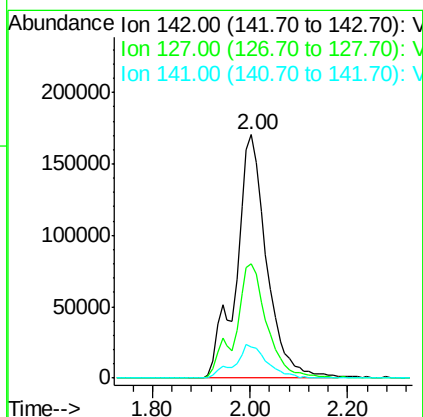
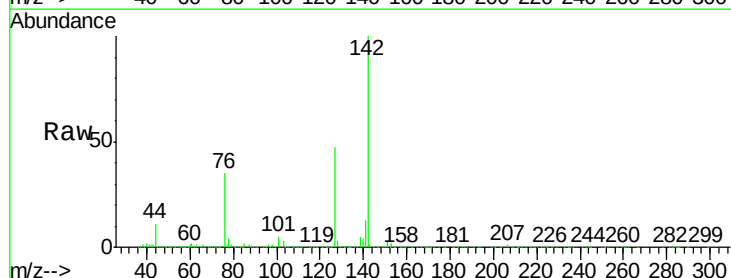
RT: 2.00 min Scan# 149

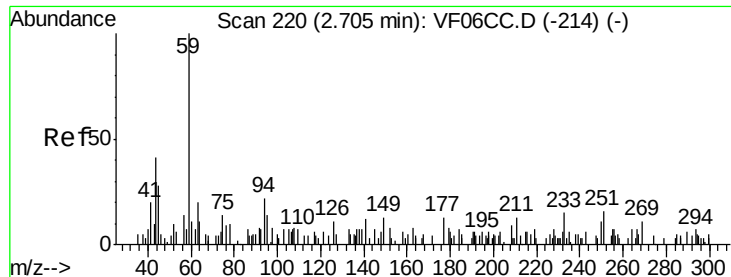
Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	142	Resp:	744453
Ion Ratio	Lower	Upper	
142	100		
127	46.8	39.4	59.2
141	13.0	10.6	15.8





#11

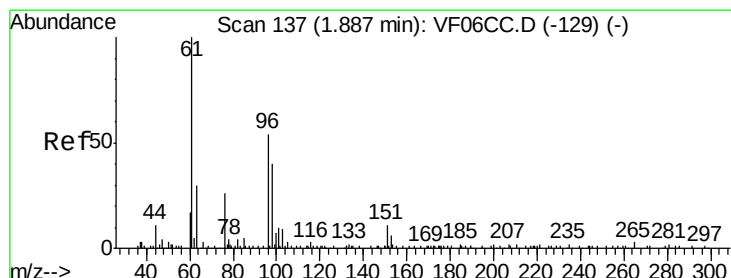
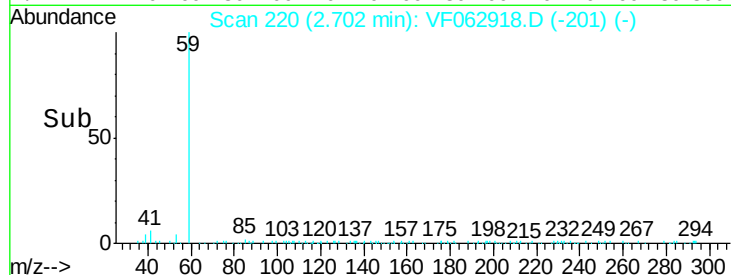
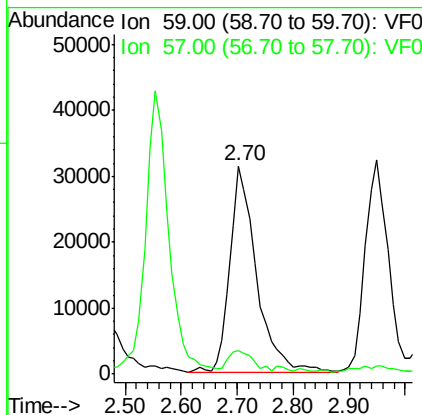
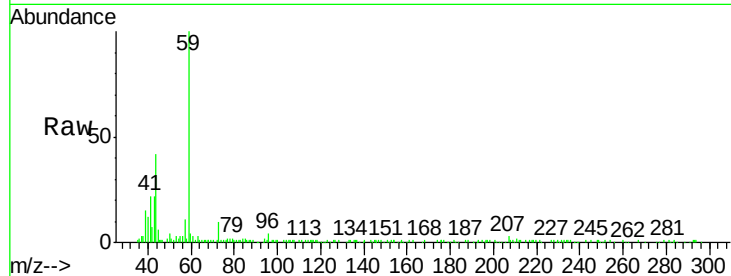
Tert butyl alcohol
Concen: 300.184 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.2	13.8

Manual Integrations
APPROVED

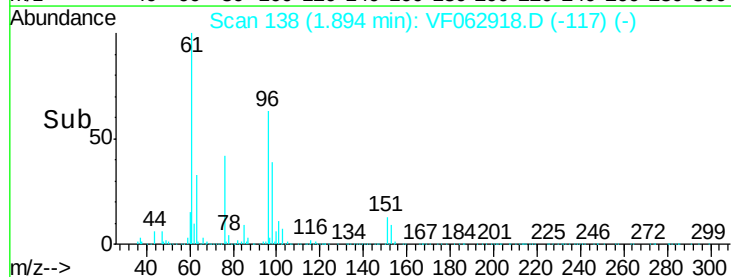
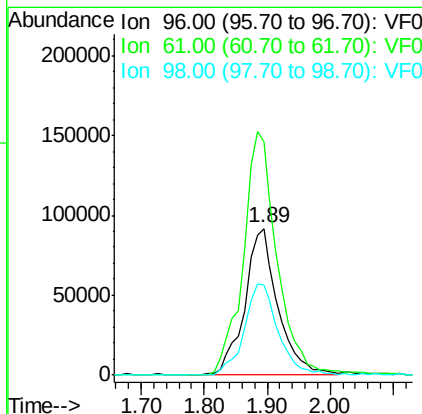
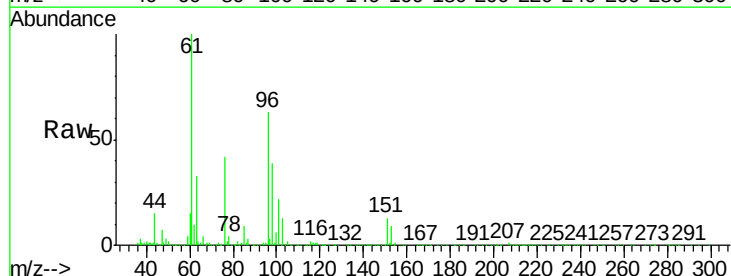
MMDadoda
6/11/2019 2:54:57 PM

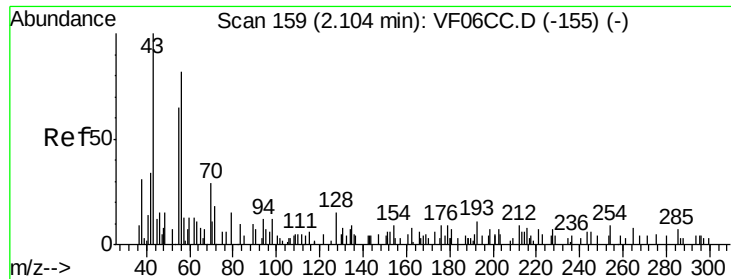


#12

1,1-Dichloroethene
Concen: 48.873 ug/l
RT: 1.89 min Scan# 138
Delta R.T. 0.00 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.6	139.4	209.2
98	61.4	50.3	75.5





#13

Acrolein

Concen: 306.847 ug/l

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 42183

Ion Ratio Lower Upper

56 100

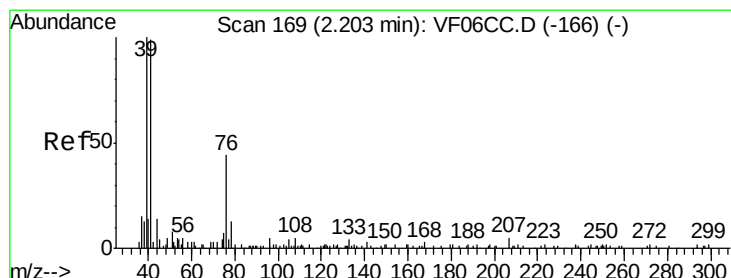
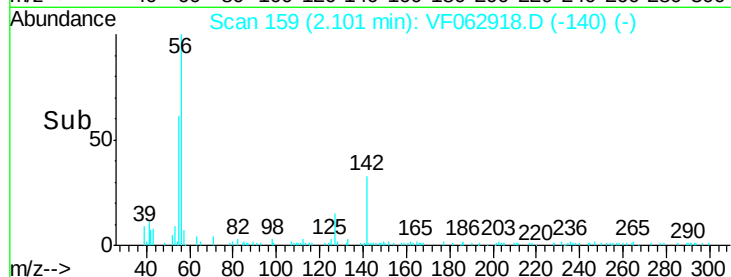
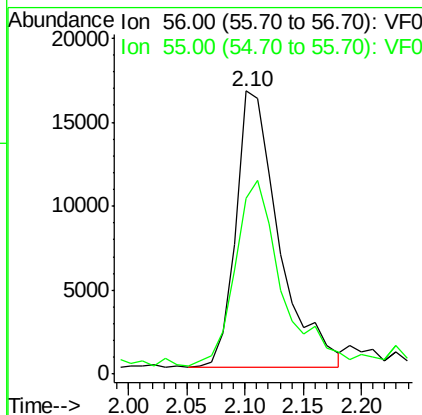
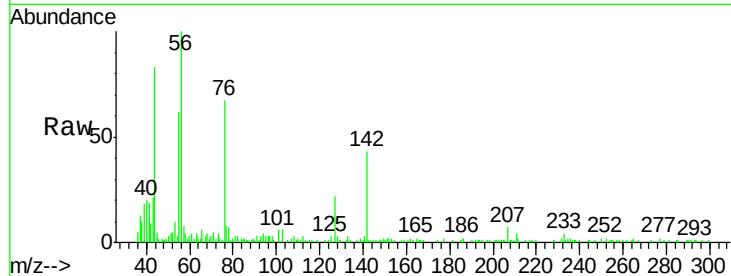
55 62.2 52.9 79.3

Manual Integrations

APPROVED

MMDadoda

6/11/2019 2:54:57 PM



#14

Allyl chloride

Concen: 60.581 ug/l

RT: 2.21 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

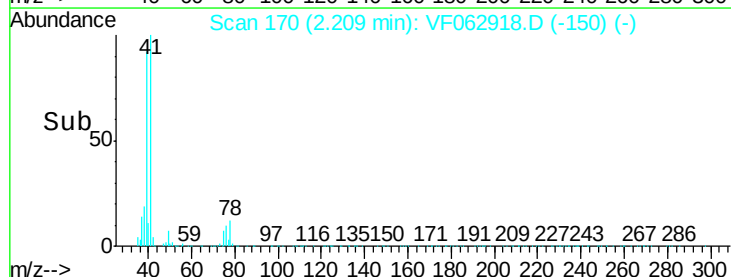
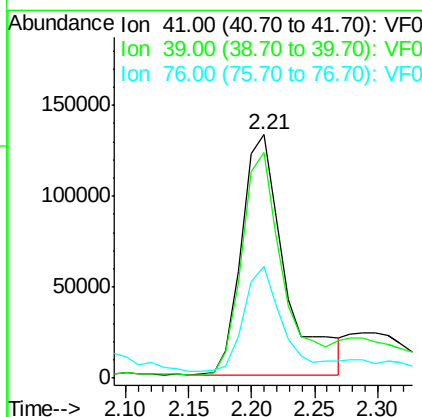
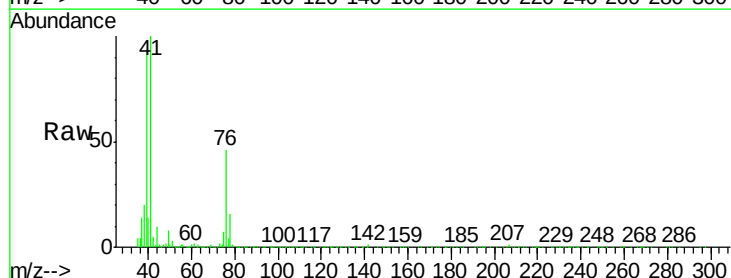
Tgt Ion: 41 Resp: 322789

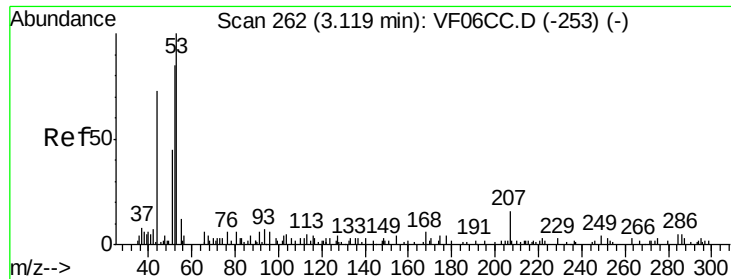
Ion Ratio Lower Upper

41 100

39 92.7 71.9 107.9

76 45.9 39.6 59.4





#15

Acrylonitrile

Concen: 327.360 ug/l

RT: 3.10 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

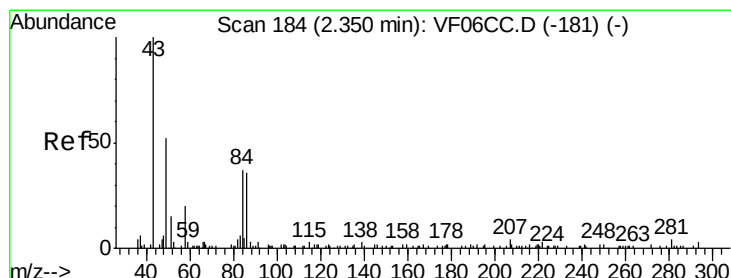
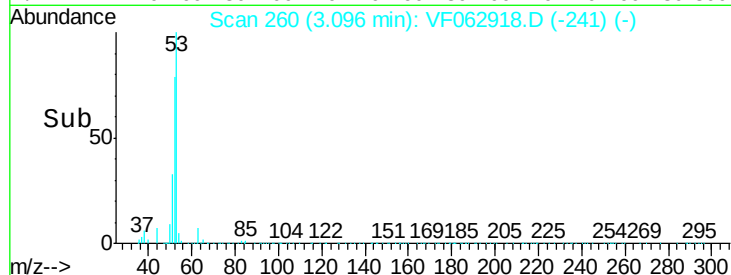
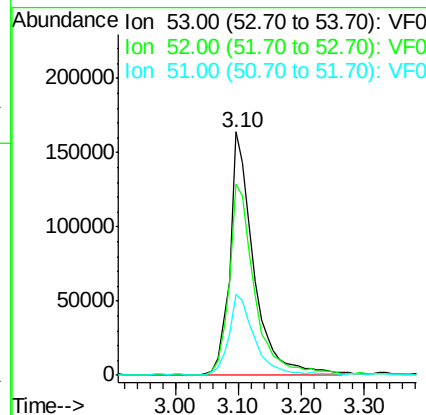
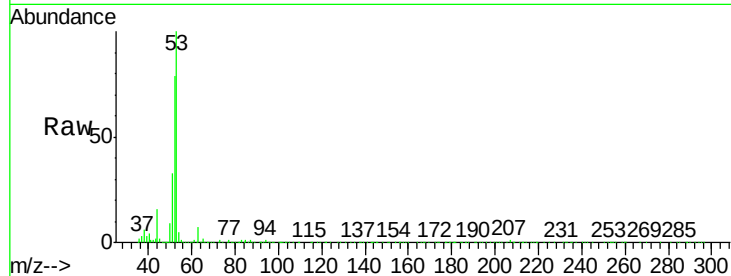
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	425876
Ion Ratio	Lower	Upper	
53	100		
52	78.7	68.1	102.1
51	33.1	27.7	41.5

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#16

Acetone

Concen: 268.280 ug/l

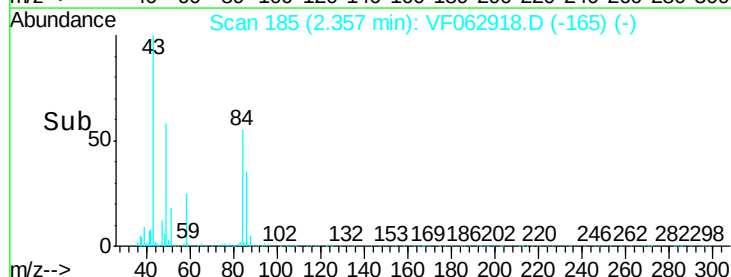
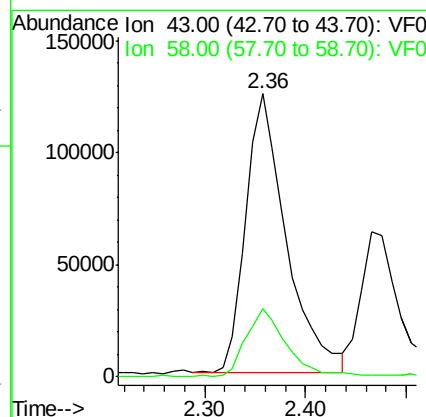
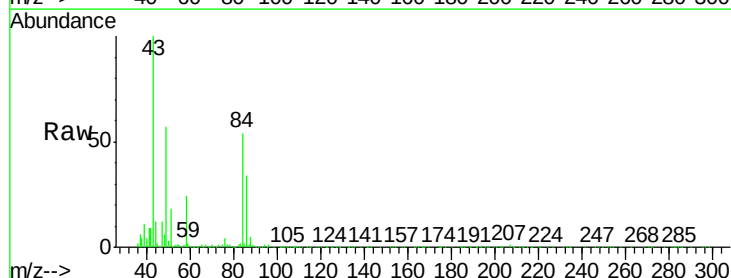
RT: 2.36 min Scan# 185

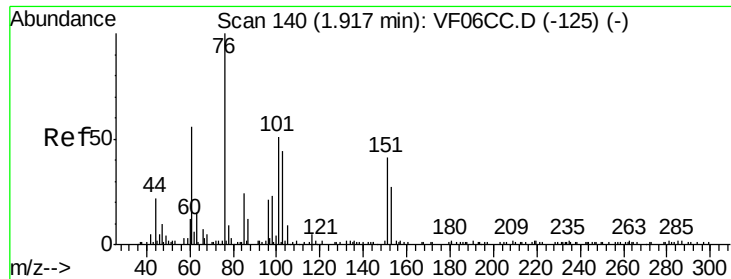
Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	43	Resp:	350928
Ion Ratio	Lower	Upper	
43	100		
58	24.1	19.0	28.4





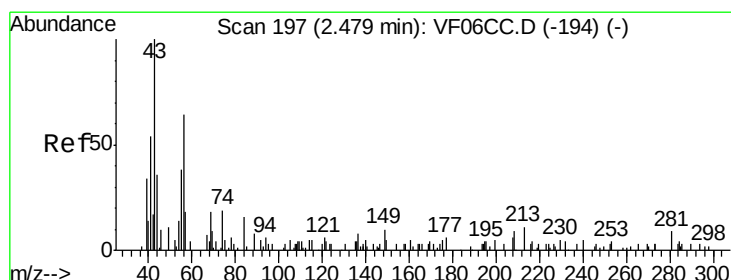
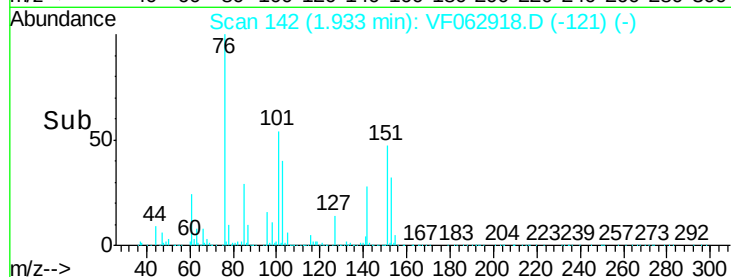
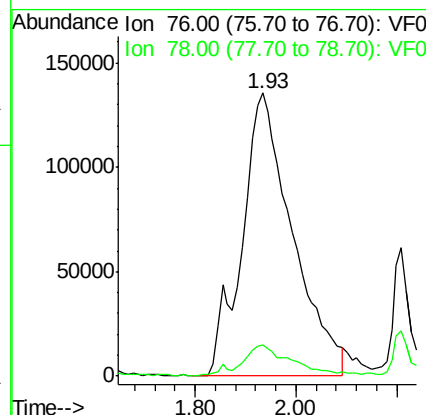
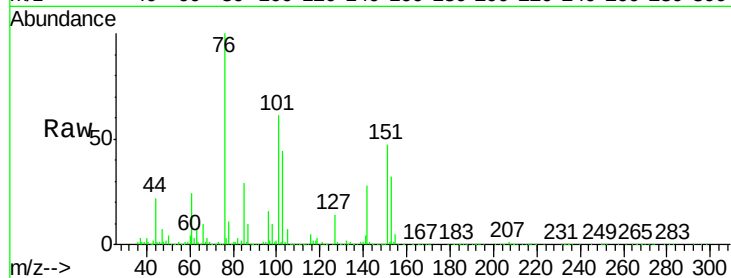
#17
Carbon Disulfide
Concen: 46.936 ug/l
RT: 1.93 min Scan# 142
Delta R.T. 0.00 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.0	9.4	14.2

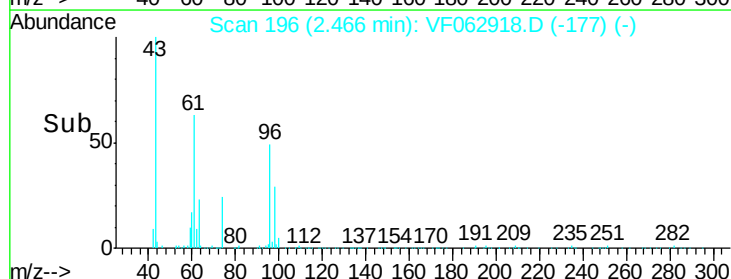
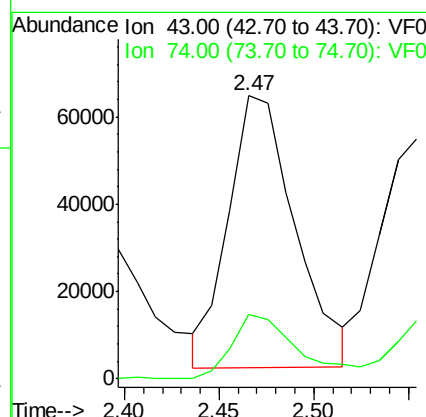
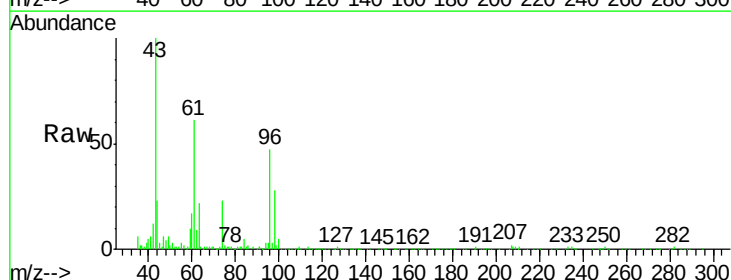
Manual Integrations
APPROVED

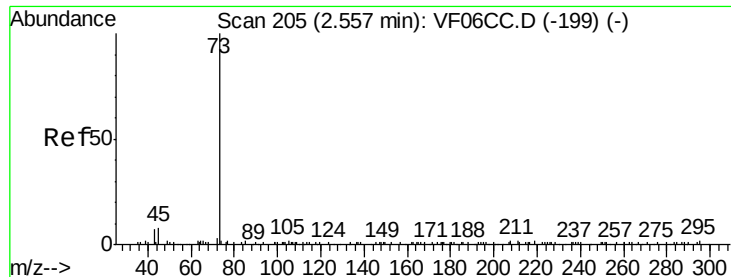
MMDadoda
6/11/2019 2:54:57 PM



#18
Methyl Acetate
Concen: 66.916 ug/l
RT: 2.47 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.9	22.1	33.1





#19

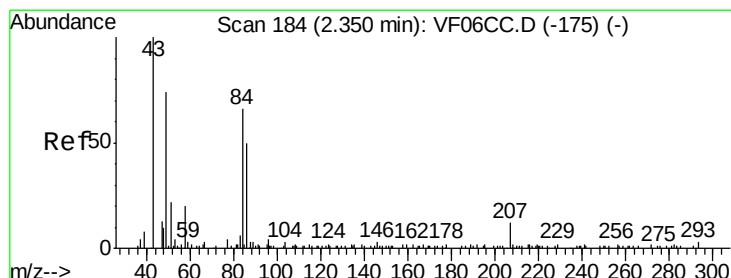
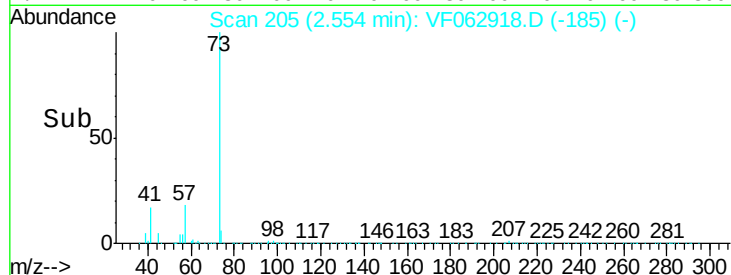
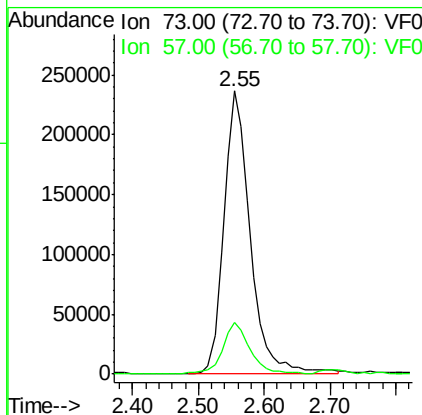
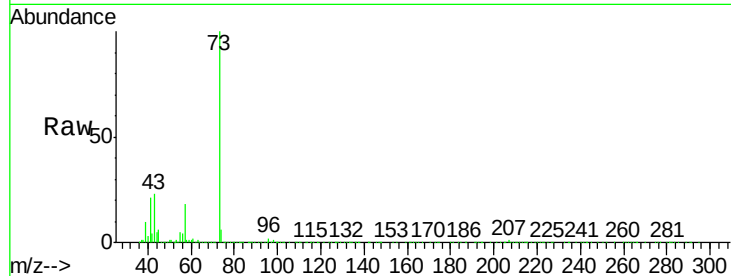
Methyl tert-butyl Ether
 Concen: 53.240 ug/l
 RT: 2.55 min Scan# 205
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.2	15.1	22.7

Manual Integrations
 APPROVED

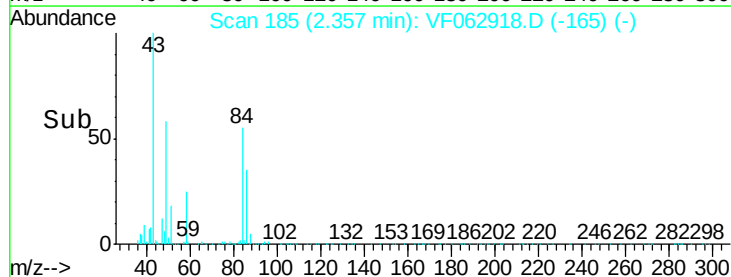
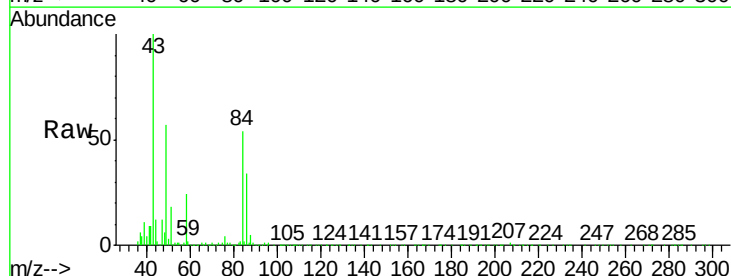
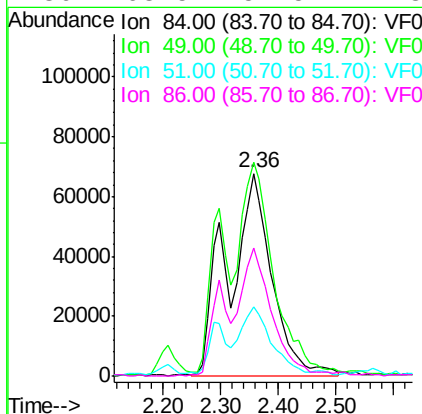
MMDadoda
 6/11/2019 2:54:57 PM

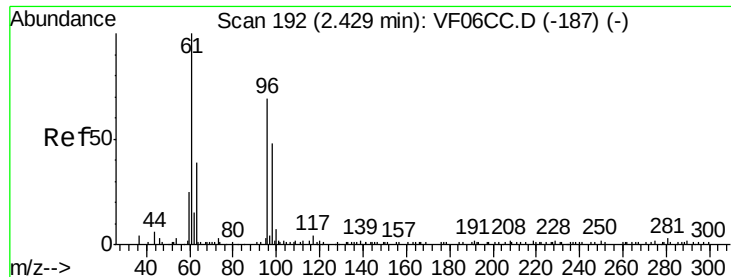


#20

Methylene Chloride
 Concen: 54.876 ug/l m
 RT: 2.36 min Scan# 185
 Delta R.T. -0.00 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	105.6	82.6	123.8
51	34.3	25.0	37.4
86	63.5	51.5	77.3





#21

trans-1,2-Dichloroethene

Concen: 49.814 ug/l

RT: 2.44 min Scan# 193

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

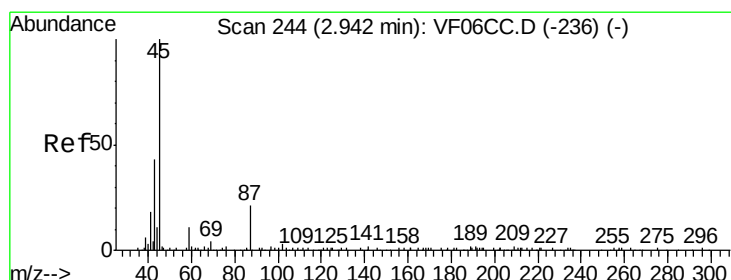
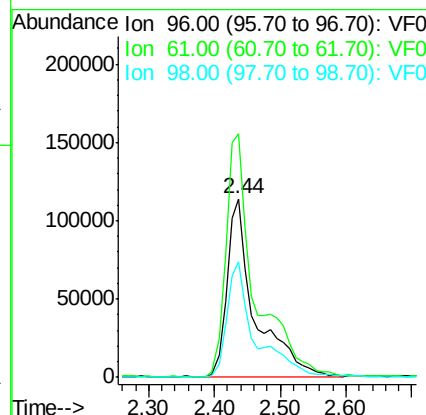
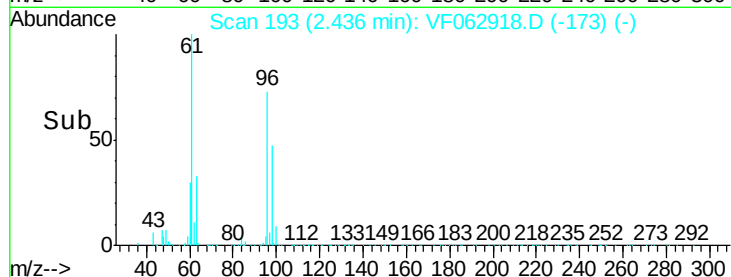
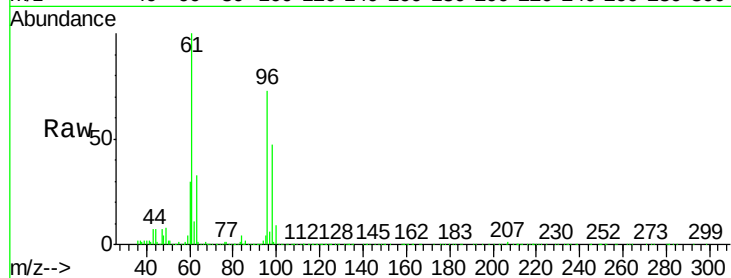
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	343032
Ion	Ratio	Lower	Upper
96	100		
61	136.4	105.0	157.6
98	64.6	51.1	76.7

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#22

Diisopropyl ether

Concen: 57.017 ug/l

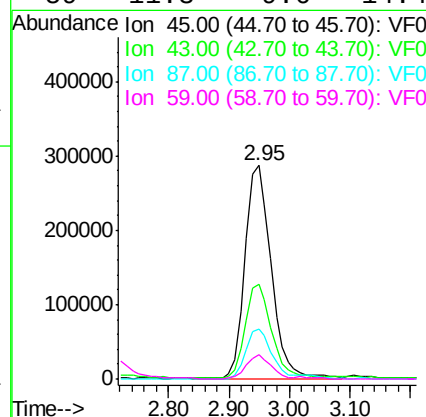
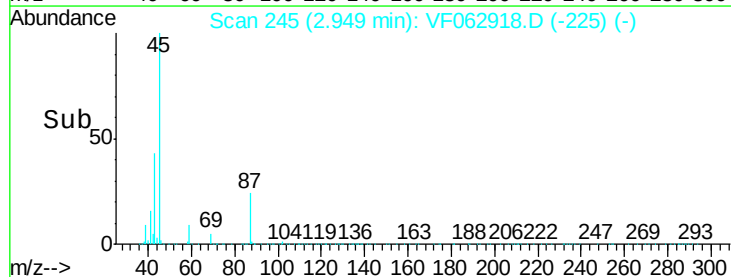
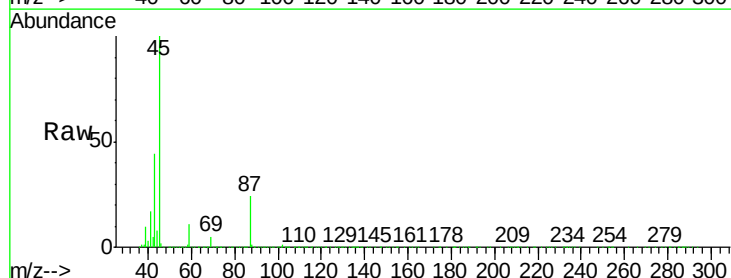
RT: 2.95 min Scan# 245

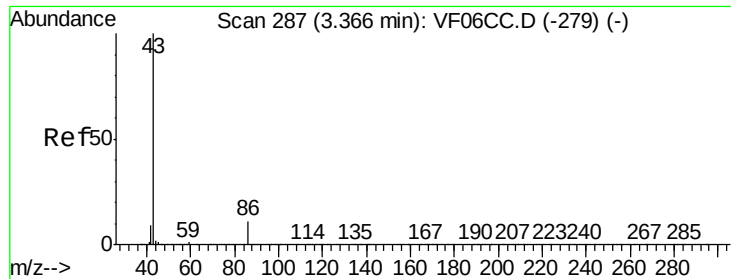
Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	45	Resp:	863119
Ion	Ratio	Lower	Upper
45	100		
43	44.5	34.3	51.5
87	23.6	19.0	28.4
59	11.3	9.6	14.4





#23

Vinyl Acetate

Concen: 269.172 ug/l

RT: 3.35 min Scan# 286

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tot Ion: 43 Resp: 2789576

Ion Ratio Lower Upper

43 100

86 9.9 8.2 12.2

Instrument :

MSVOA_F

ClientSampleId :

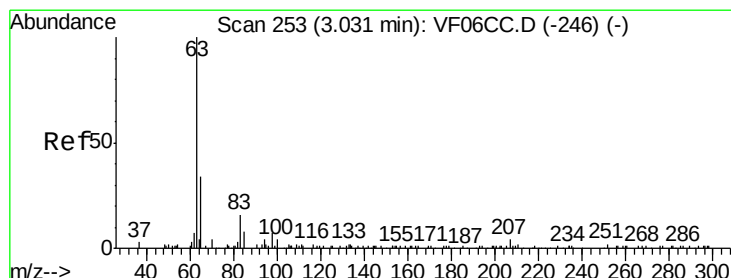
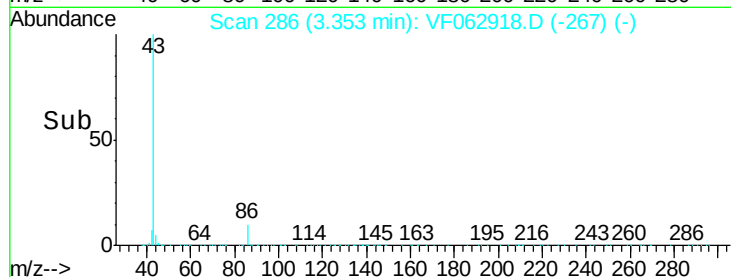
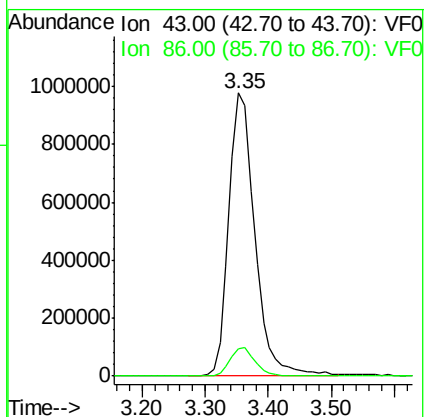
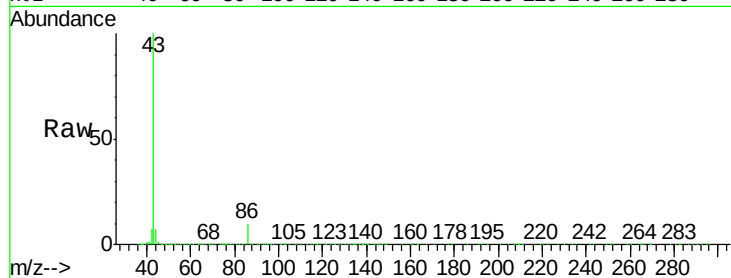
VSTDCCC050EC

Manual Integrations

APPROVED

MMDadoda

6/11/2019 2:54:57 PM



#24

1,1-Dichloroethane

Concen: 54.875 ug/l

RT: 3.03 min Scan# 253

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

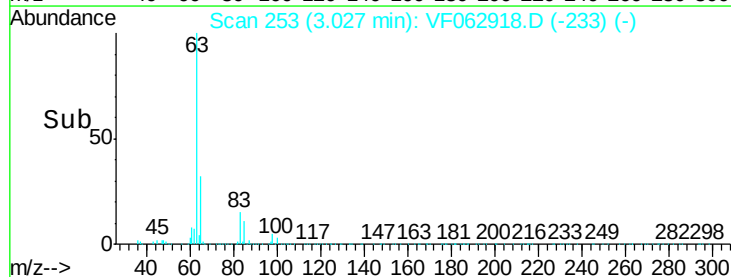
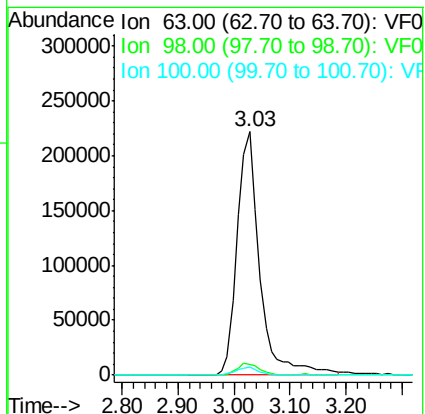
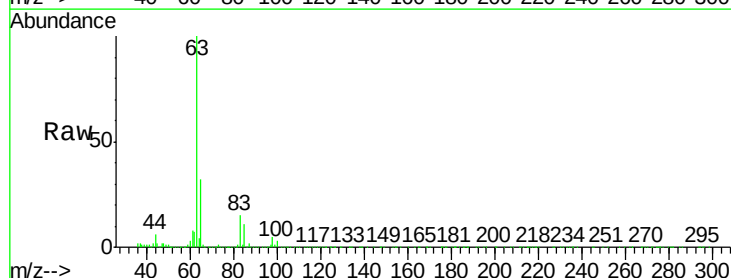
Tgt Ion: 63 Resp: 620230

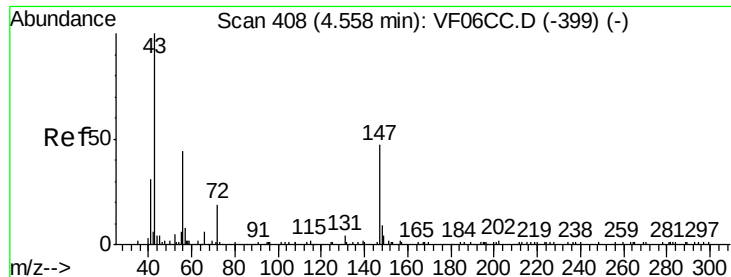
Ion Ratio Lower Upper

63 100

98 4.6 2.4 7.1

100 3.4 1.5 4.5





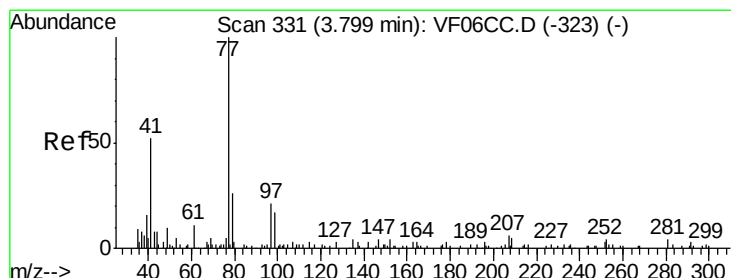
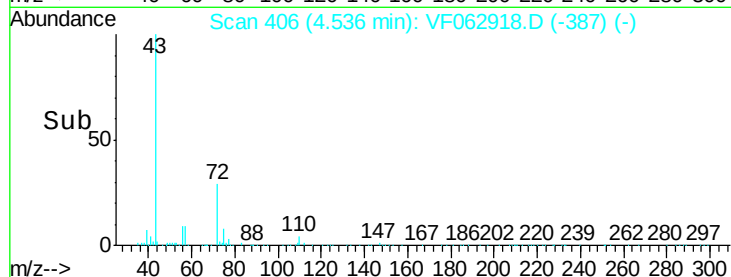
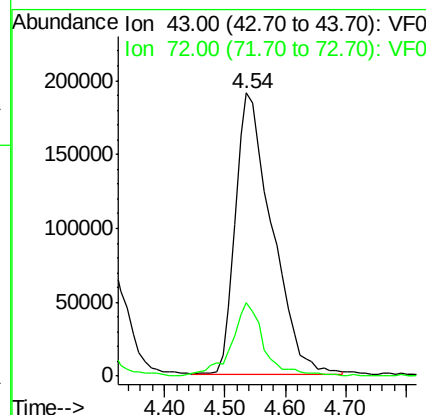
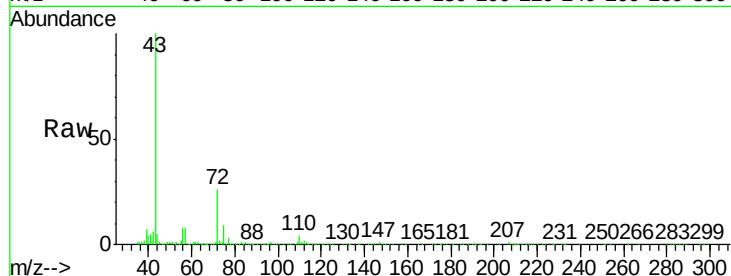
#25
2-Butanone
Concen: 261.821 ug/l
RT: 4.54 min Scan# 406
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.4	32.0

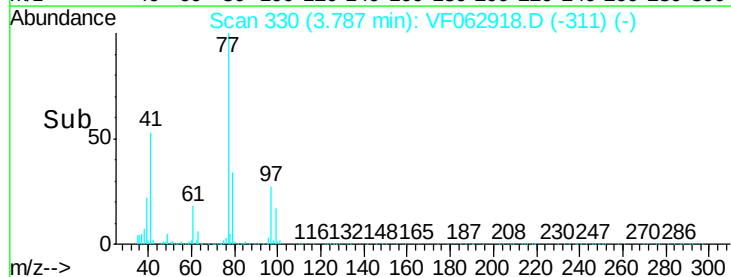
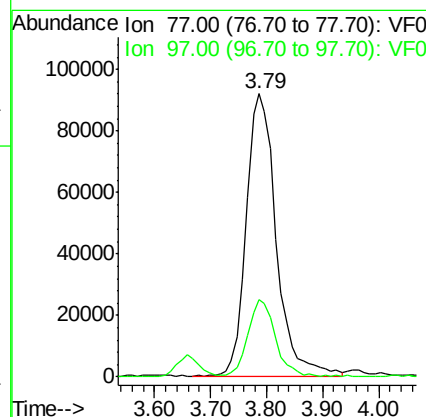
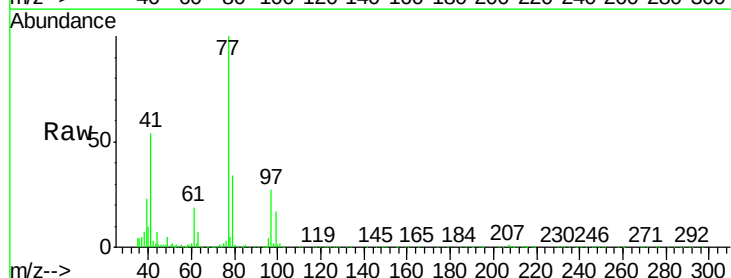
Manual Integrations
APPROVED

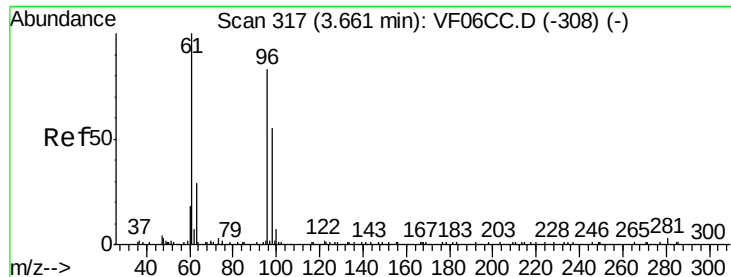
MMDadoda
6/11/2019 2:54:57 PM



#26
2,2-Dichloropropane
Concen: 52.862 ug/l
RT: 3.79 min Scan# 330
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
77	100		
97	27.4	12.4	37.4





#27

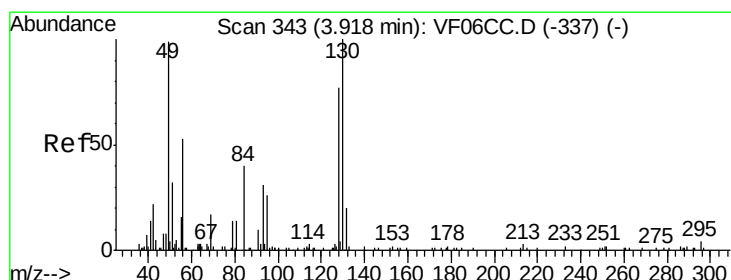
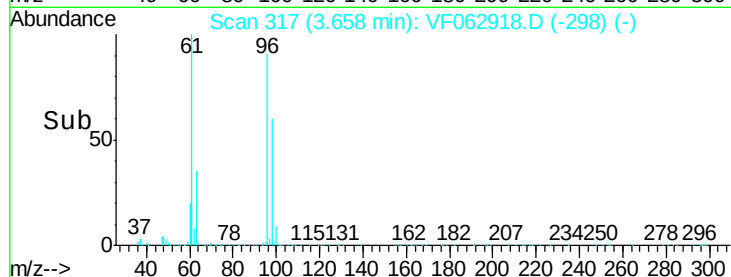
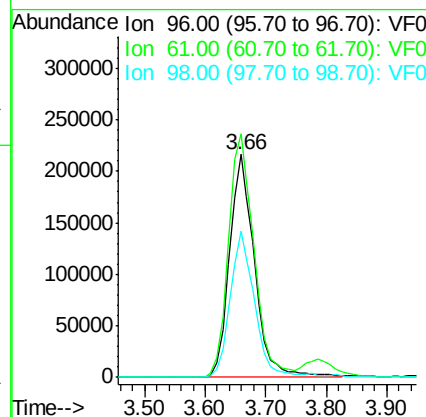
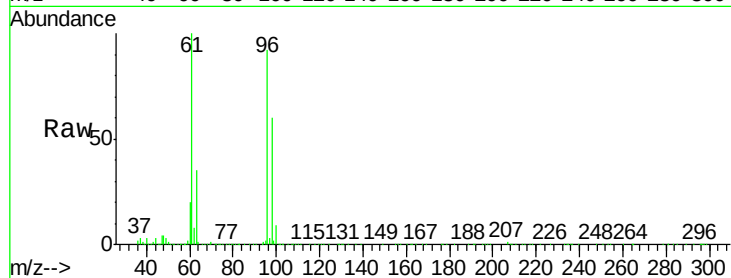
cis-1,2-Dichloroethene
Concen: 53.358 ug/l
RT: 3.66 min Scan# 317
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	617640		
61	109.3	0.0	213.8	
98	65.9	0.0	127.0	

Manual Integrations
APPROVED

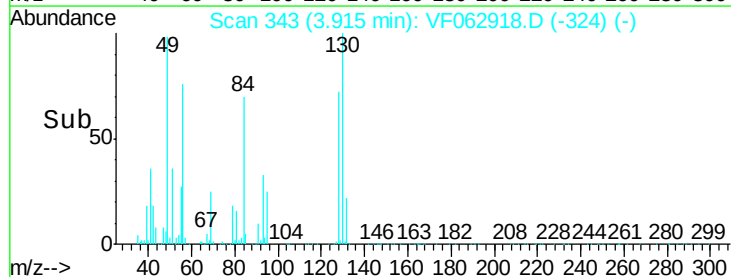
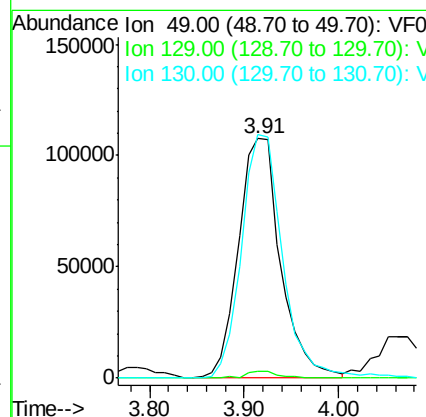
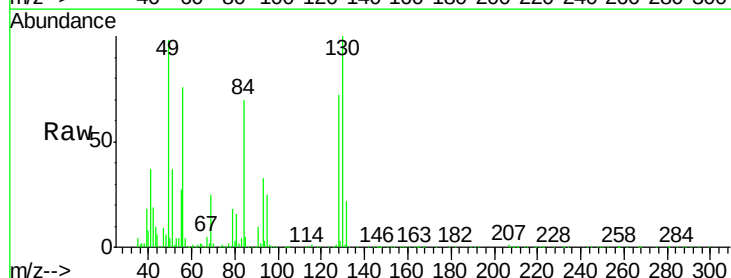
MMDadoda
6/11/2019 2:54:57 PM

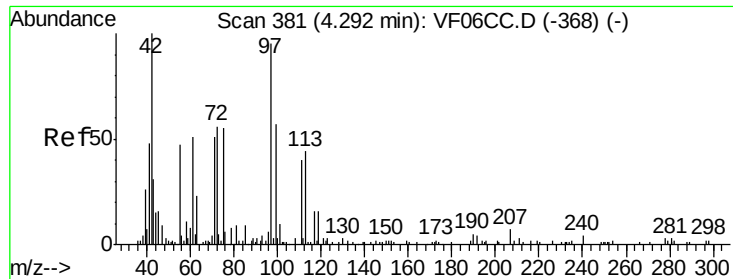


#28

Bromochloromethane
Concen: 53.802 ug/l
RT: 3.91 min Scan# 343
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	330774		
129	2.8	0.0	5.4	
130	101.6	79.2	118.8	





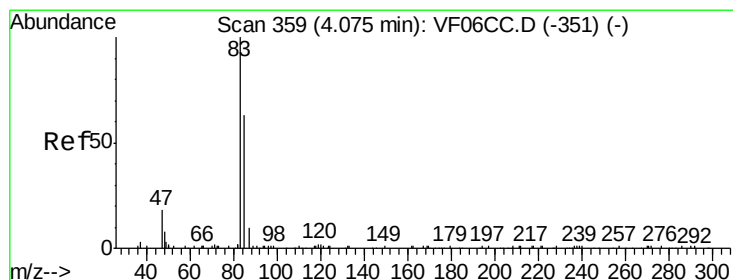
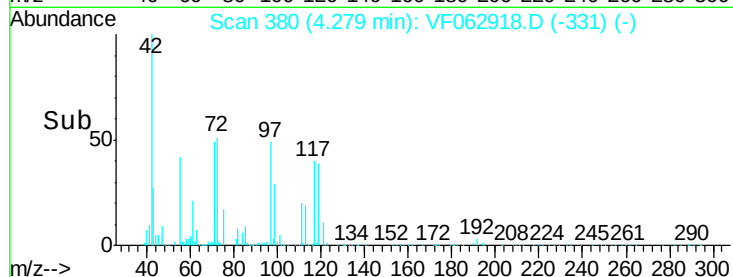
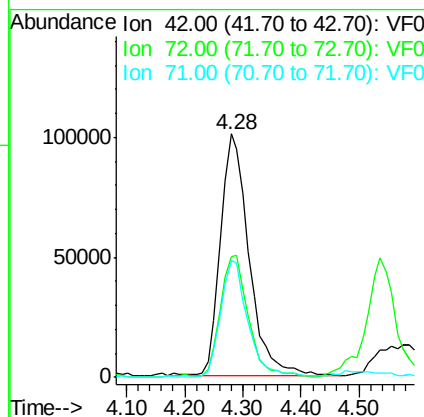
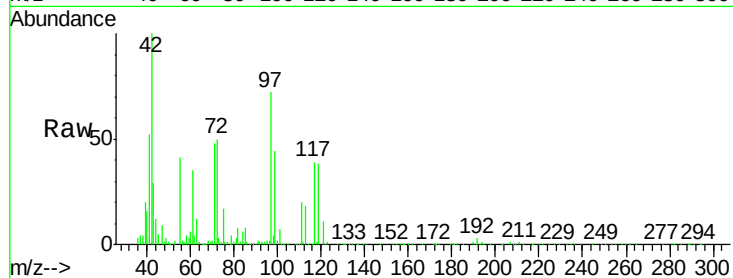
#29
Tetrahydrofuran
Concen: 296.468 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	49.0	39.0	58.6
71	45.3	36.9	55.3

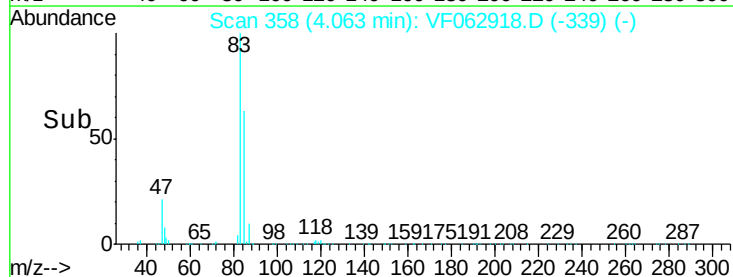
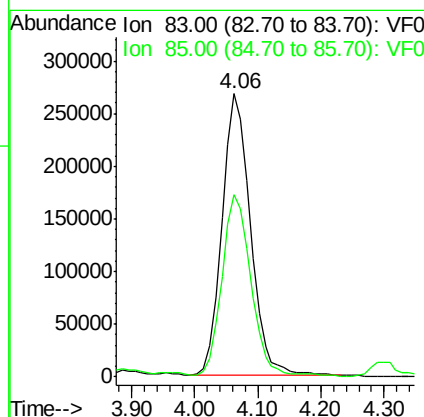
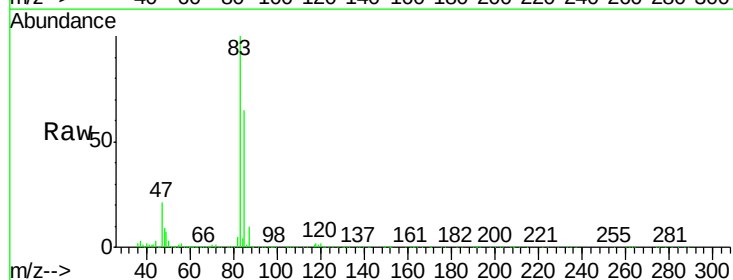
Manual Integrations
APPROVED

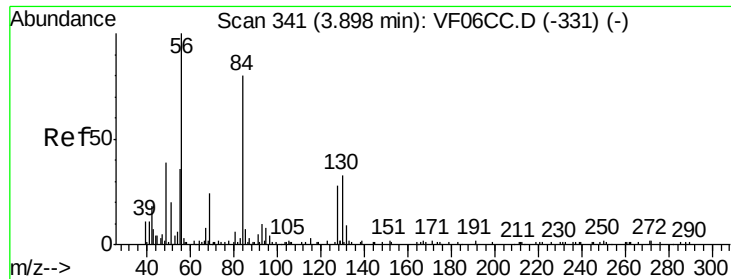
MMDadoda
6/11/2019 2:54:57 PM



#30
Chloroform
Concen: 52.829 ug/l
RT: 4.06 min Scan# 358
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	55.0	82.6





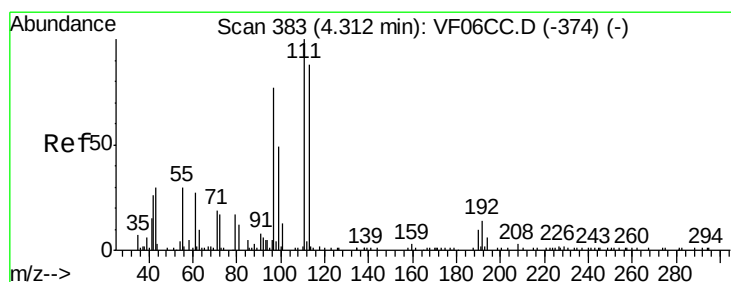
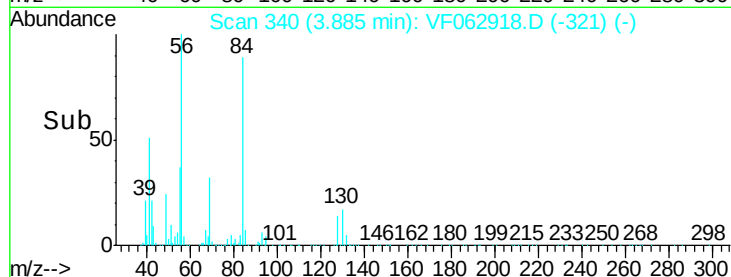
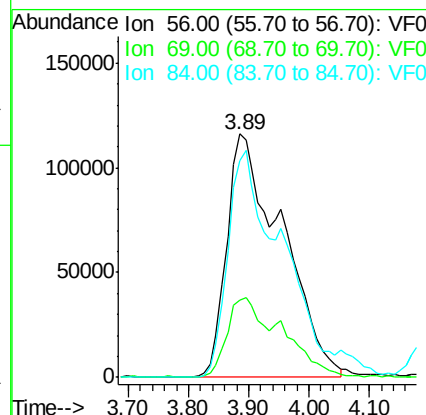
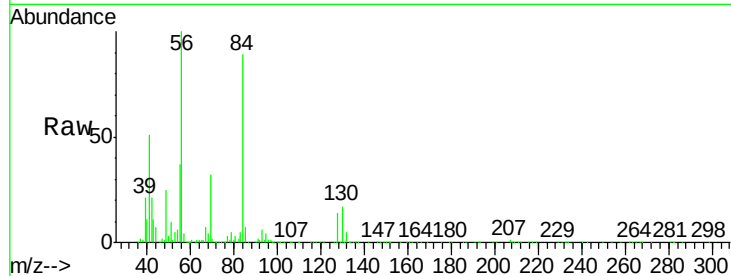
#31
Cyclohexane
Concen: 48.305 ug/l m
RT: 3.89 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.9	26.7	40.1
84	89.1	74.3	111.5

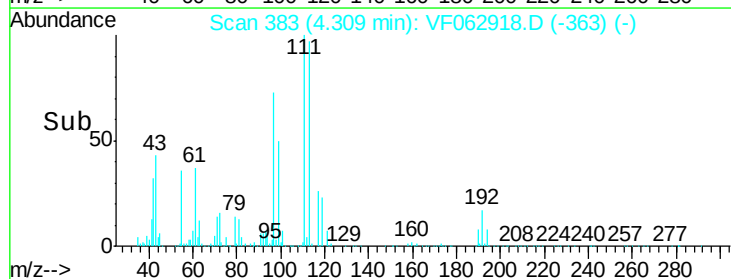
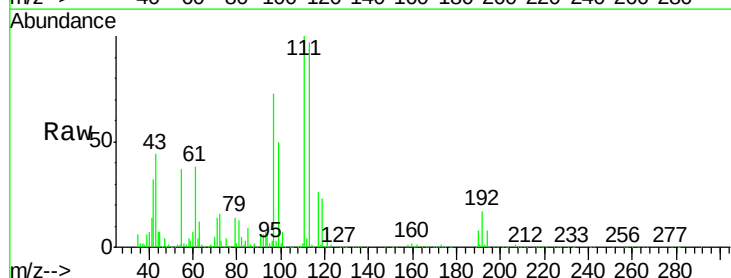
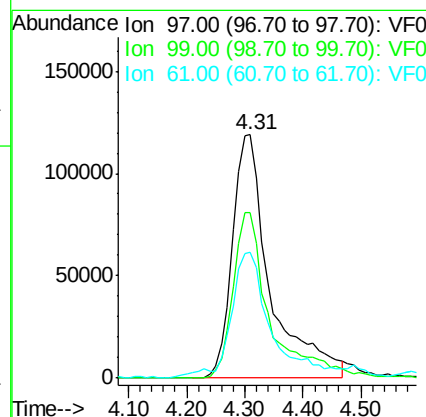
Manual Integrations
APPROVED

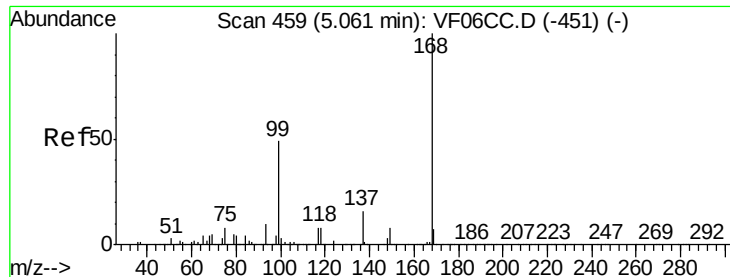
MMDadoda
6/11/2019 2:54:57 PM



#32
1,1,1-Trichloroethane
Concen: 58.132 ug/l
RT: 4.31 min Scan# 383
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.9	51.7	77.5
61	51.6	38.9	58.3





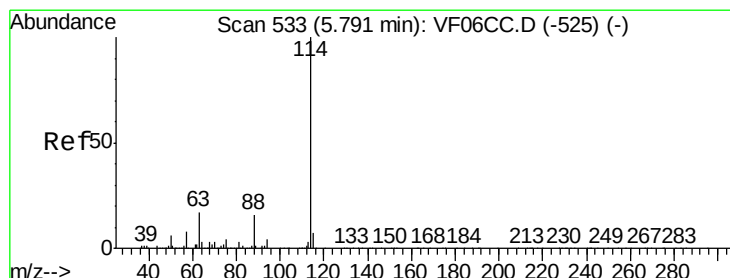
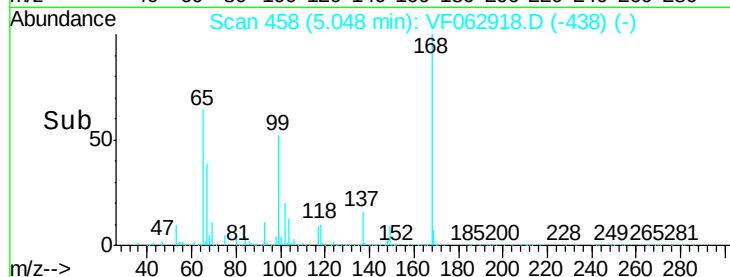
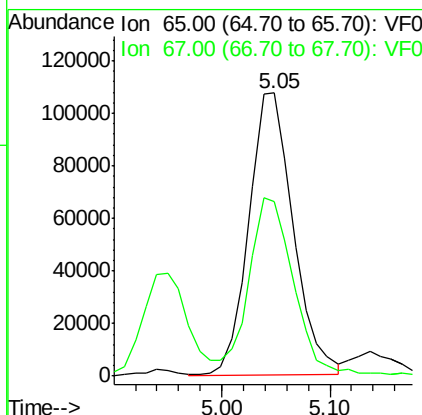
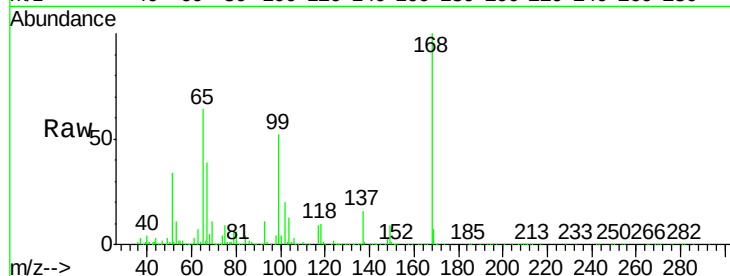
#33
 1,2-Dichloroethane-d4
 Concen: 53.485 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	61.5	0.0	121.2	

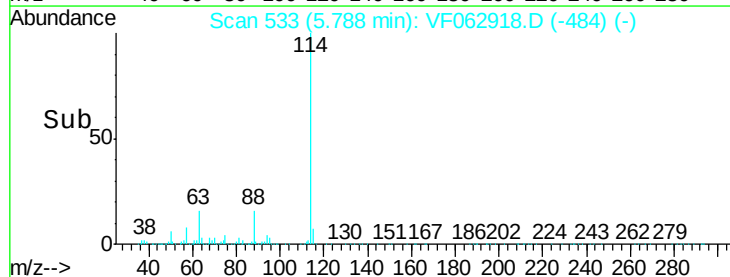
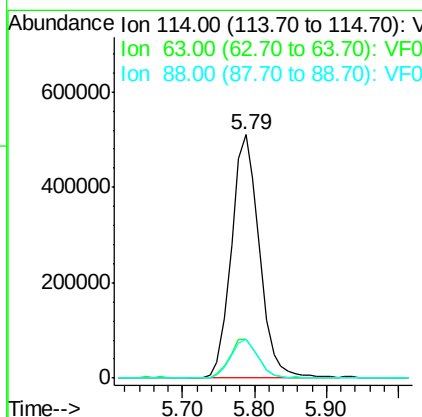
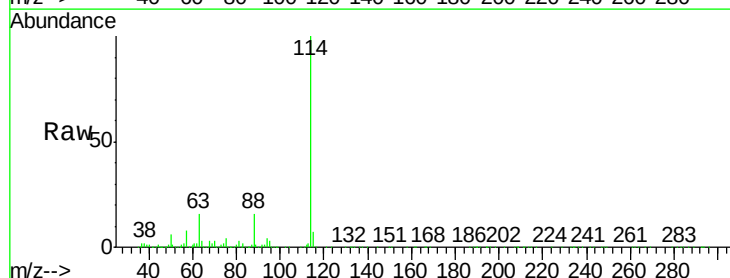
Manual Integrations
 APPROVED

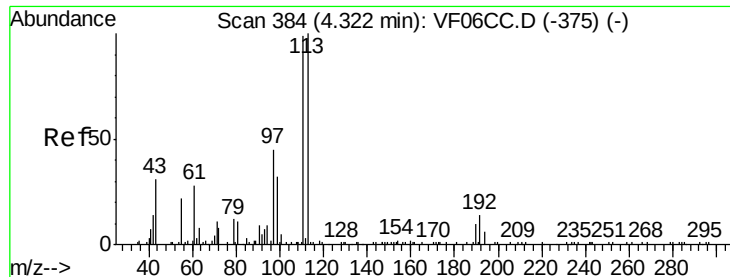
MMDadoda
 6/11/2019 2:54:57 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	15.8	0.0	34.2	
88	16.0	0.0	31.2	





#35

Dibromofluoromethane

Concen: 55.090 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

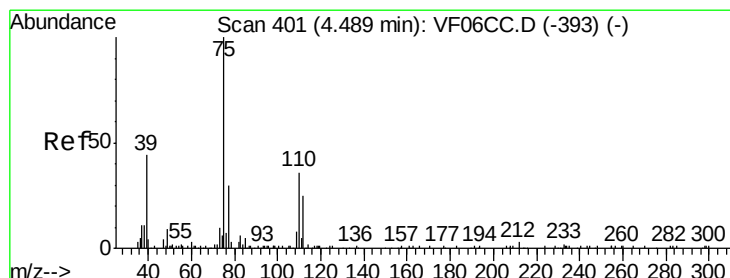
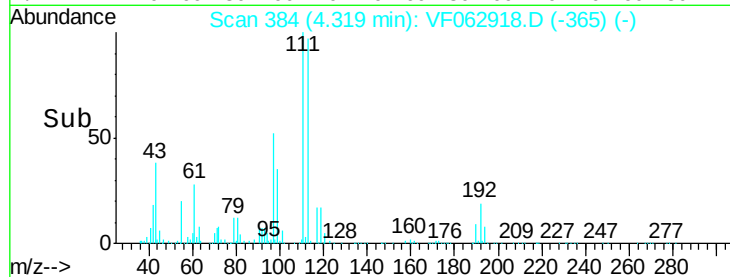
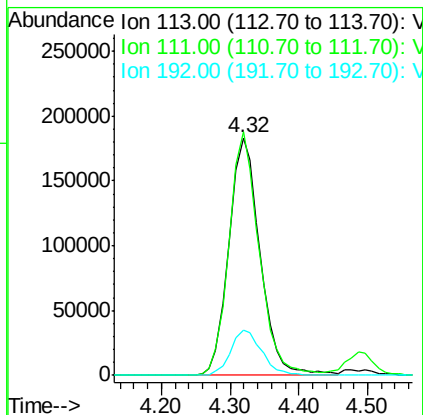
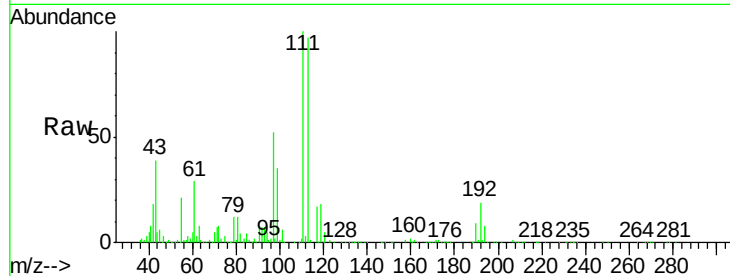
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	575880
Ion Ratio	Lower	Upper	
113	100		
111	102.6	81.9	122.9
192	19.3	15.1	22.7

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#36

1,1-Dichloropropene

Concen: 52.575 ug/l

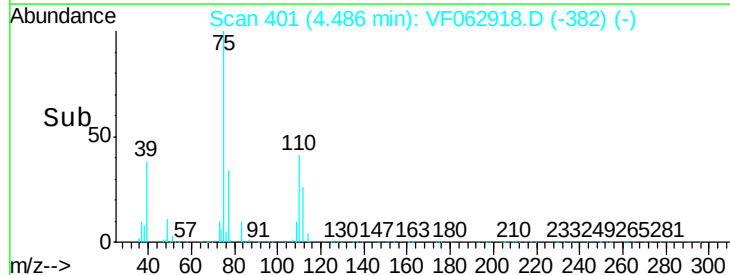
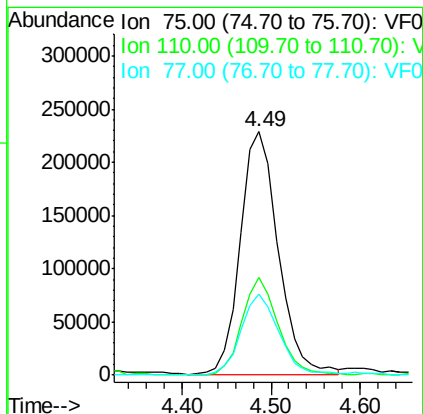
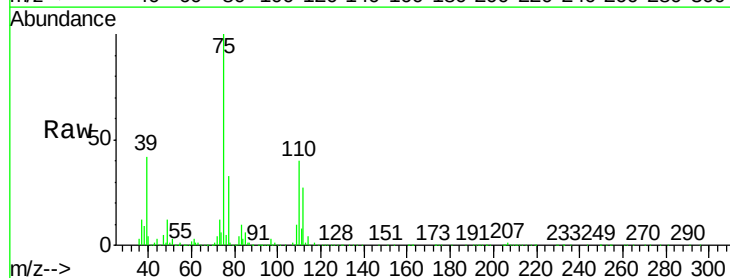
RT: 4.49 min Scan# 401

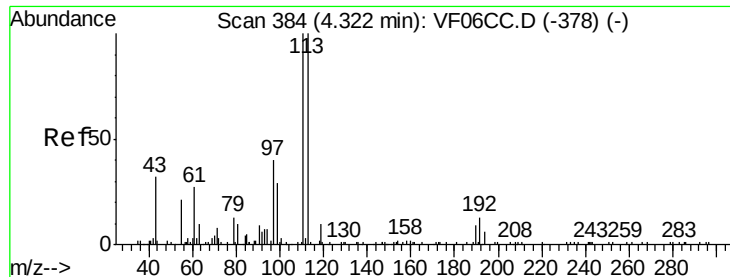
Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	75	Resp:	669557
Ion Ratio	Lower	Upper	
75	100		
110	39.9	19.4	58.1
77	33.4	25.4	38.2





#37

Ethyl Acetate

Concen: 57.946 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

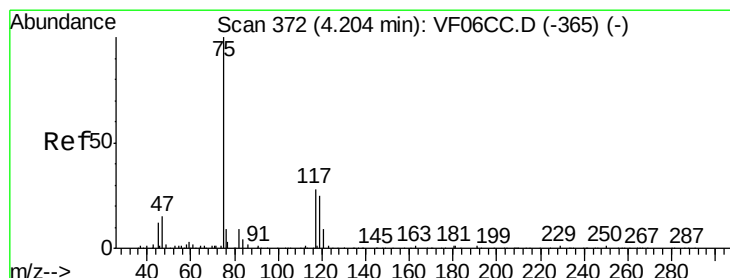
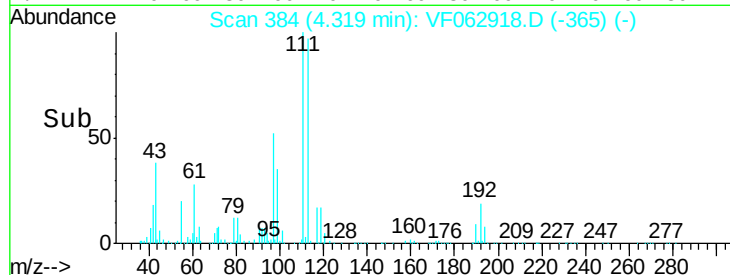
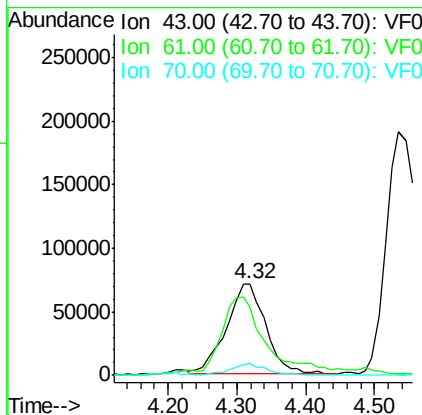
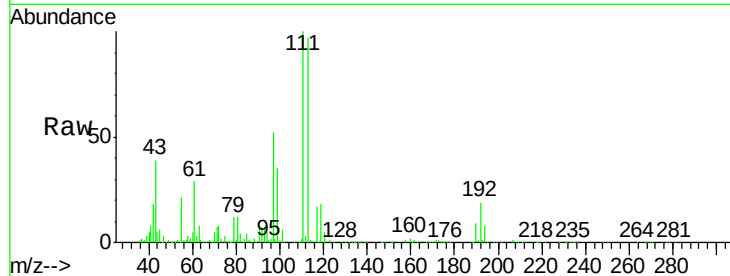
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	282094
Ion	Ratio	Lower	Upper
43	100		
61	74.3	59.1	88.7
70	12.5	10.1	15.1

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#38

Carbon Tetrachloride

Concen: 51.686 ug/l

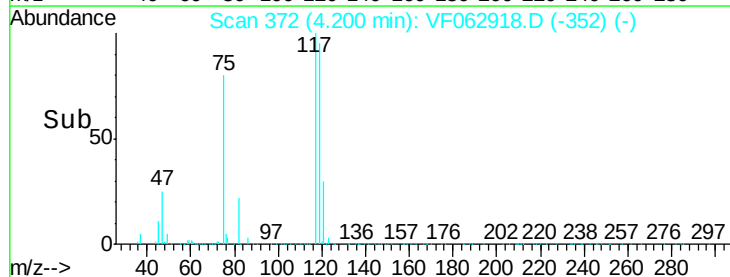
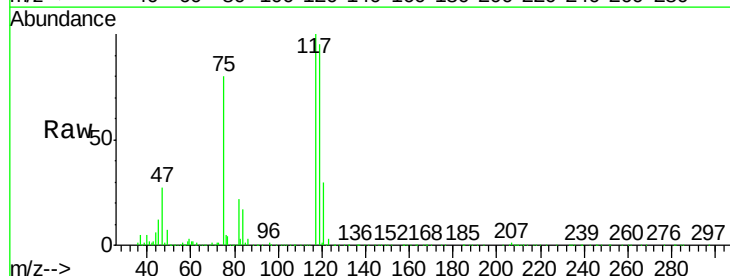
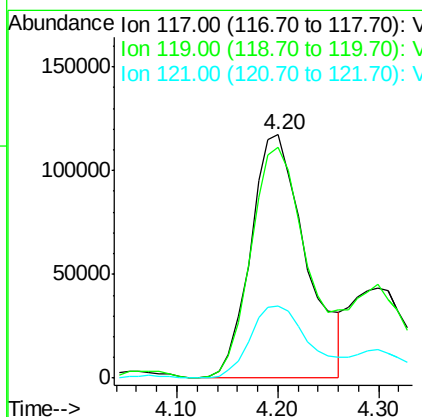
RT: 4.20 min Scan# 372

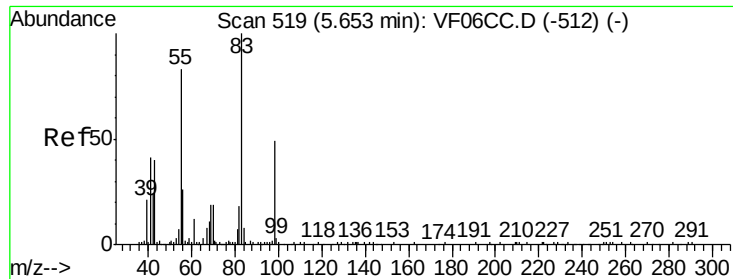
Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	117	Resp:	444858
Ion	Ratio	Lower	Upper
117	100		
119	94.8	78.2	117.2
121	29.6	28.2	42.2





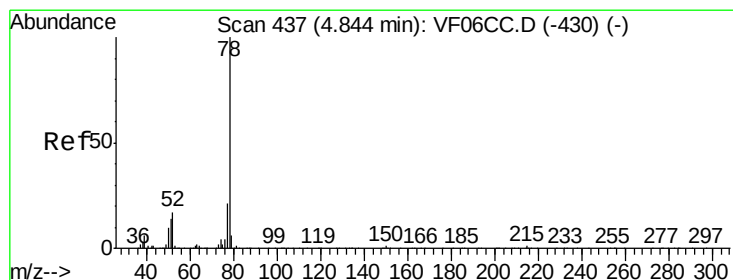
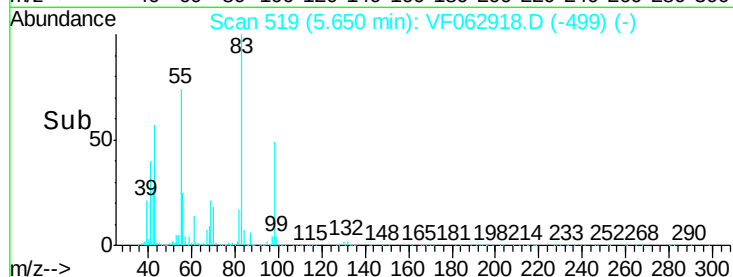
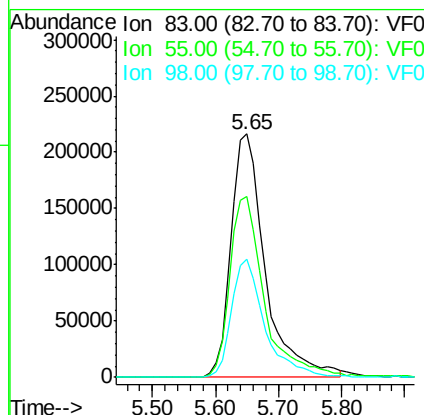
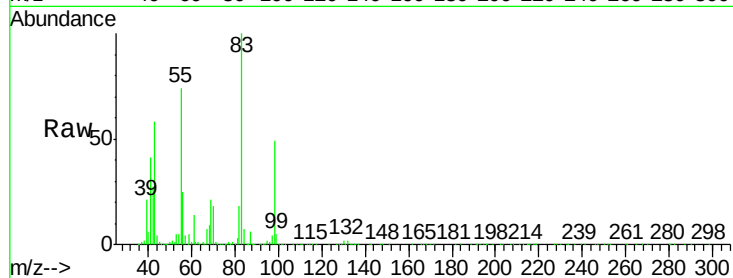
#39
Methylcyclohexane
Concen: 51.102 ug/l
RT: 5.65 min Scan# 519
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.1	61.6	92.4
98	48.6	37.4	56.2

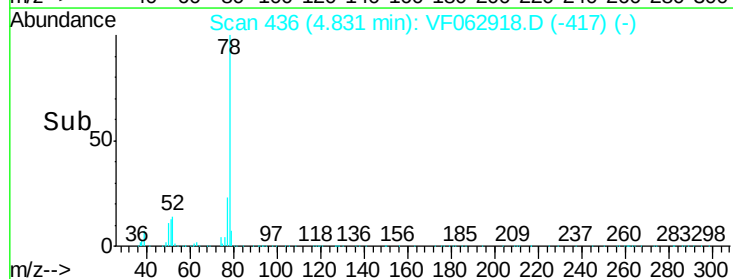
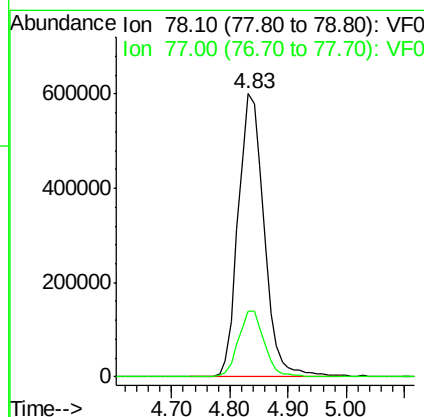
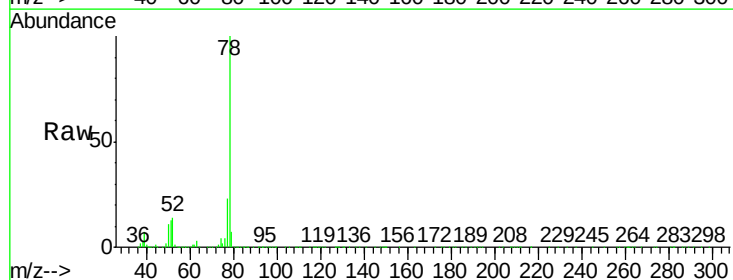
Manual Integrations
APPROVED

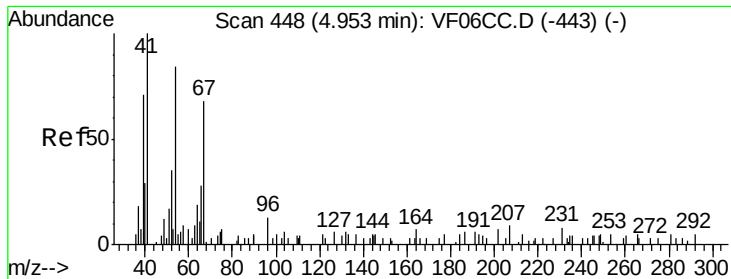
MMDadoda
6/11/2019 2:54:57 PM



#40
Benzene
Concen: 50.440 ug/l
RT: 4.83 min Scan# 436
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.9	28.3





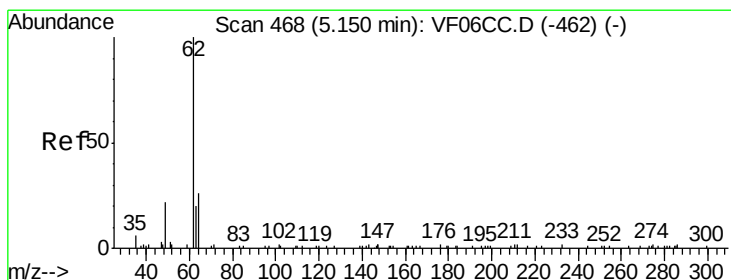
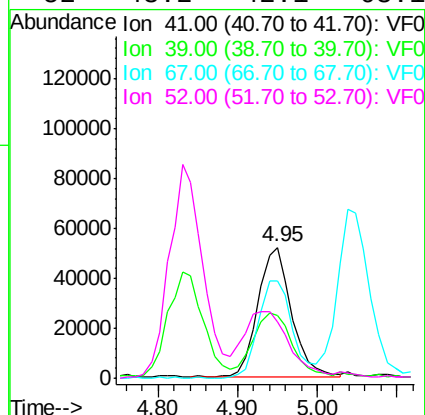
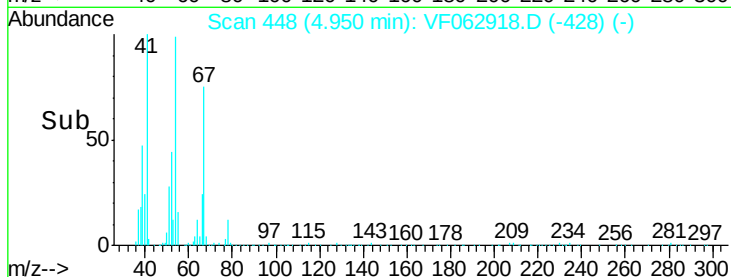
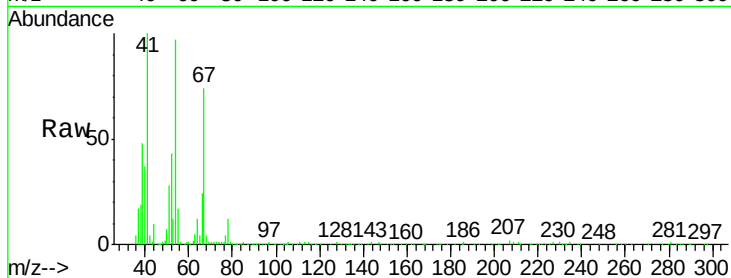
#41
Methacrylonitrile
Concen: 56.054 ug/l
RT: 4.95 min Scan# 448
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		151701		
39	48.3	42.0	63.0		
67	74.3	61.4	92.0		
52	43.2	42.1	63.1		

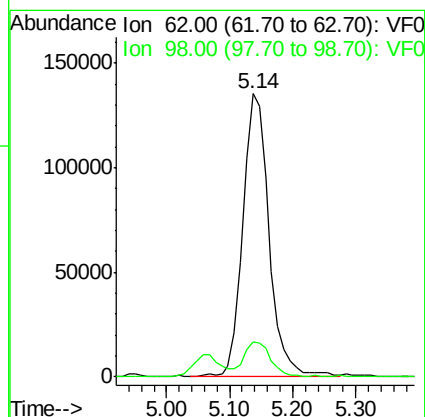
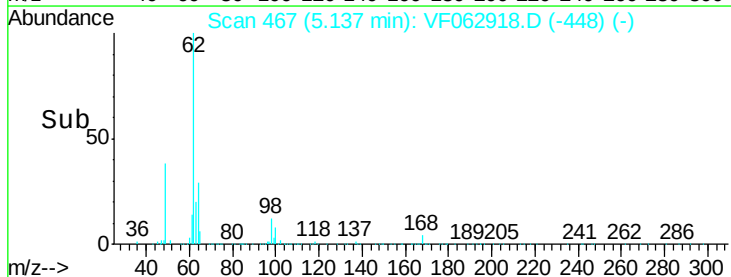
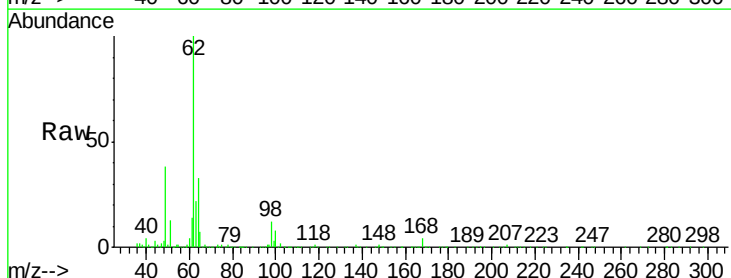
Manual Integrations
APPROVED

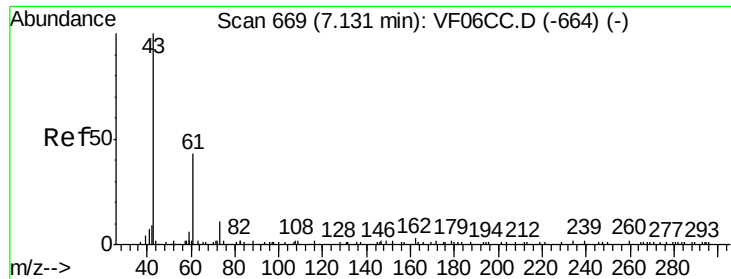
MMDadoda
6/11/2019 2:54:57 PM



#42
1,2-Dichloroethane
Concen: 55.479 ug/l
RT: 5.14 min Scan# 467
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		391092		
98	12.3	0.0	24.0		





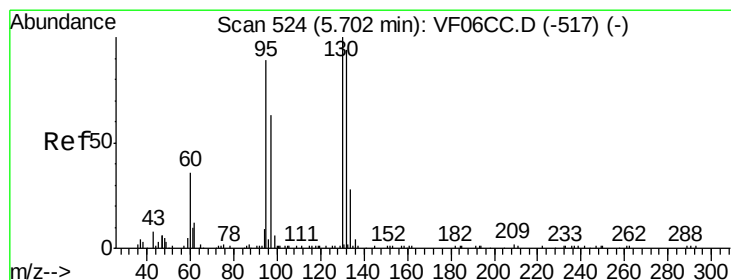
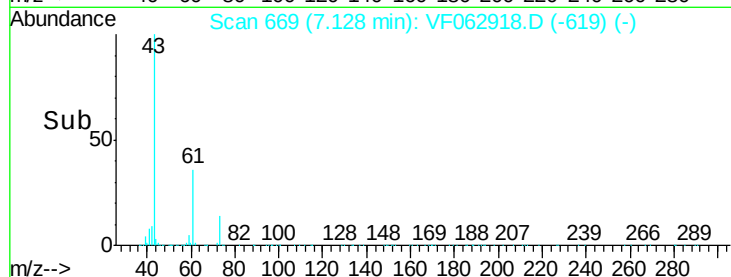
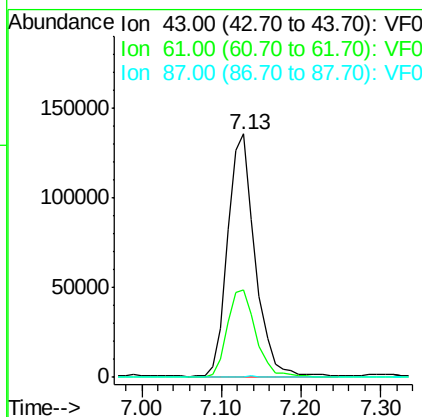
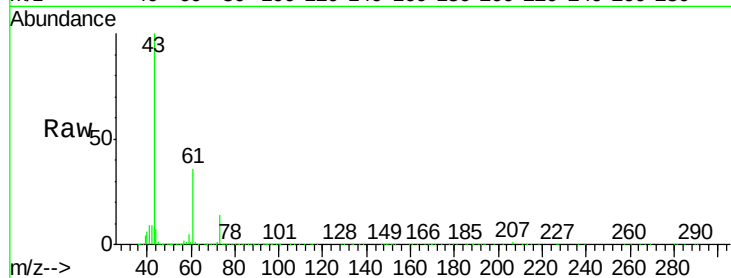
#43
Isopropyl Acetate
Concen: 50.506 ug/l
RT: 7.13 min Scan# 669
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.9	29.8	44.6
87	0.3	0.3	0.5

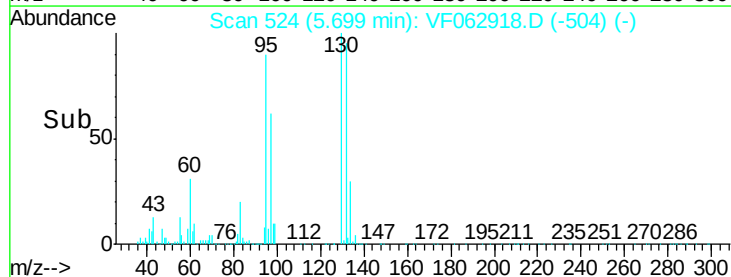
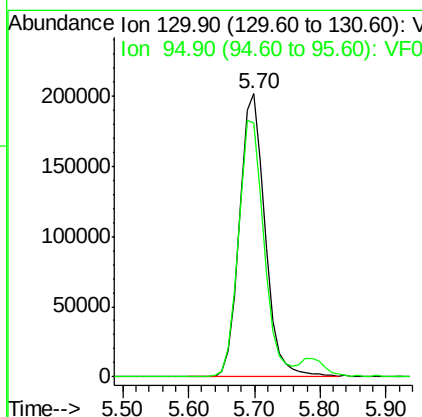
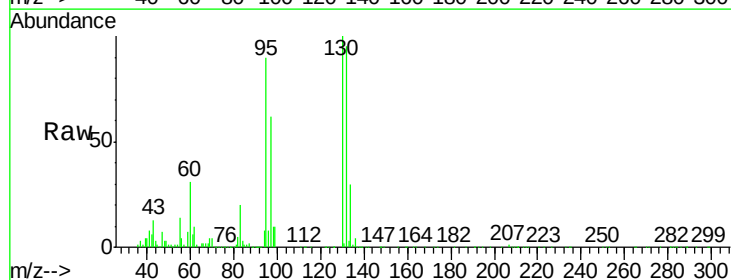
Manual Integrations
APPROVED

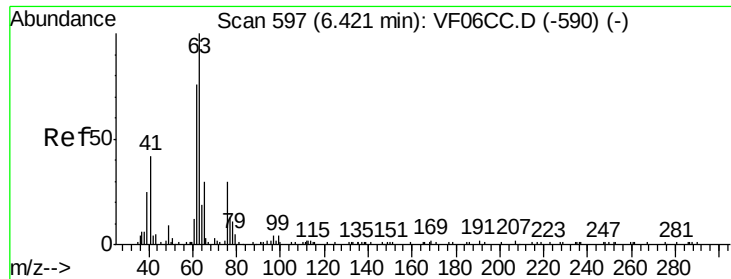
MMDadoda
6/11/2019 2:54:57 PM



#44
Trichloroethene
Concen: 52.792 ug/l
RT: 5.70 min Scan# 524
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.8	0.0	188.2





#45

1,2-Dichloropropane

Concen: 54.312 ug/l

RT: 6.42 min Scan# 597

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 505159

Ion Ratio Lower Upper

63 100

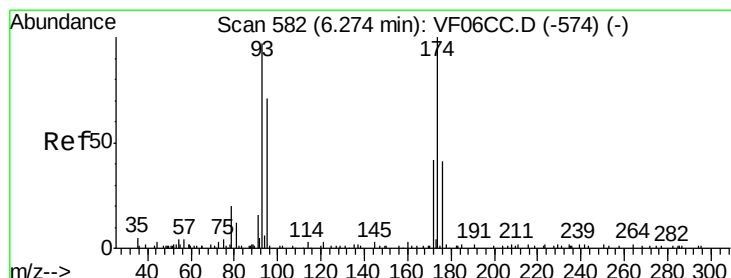
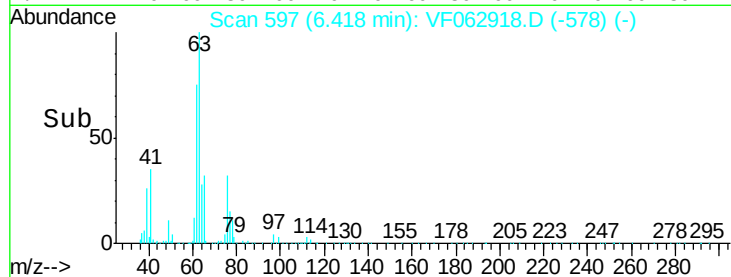
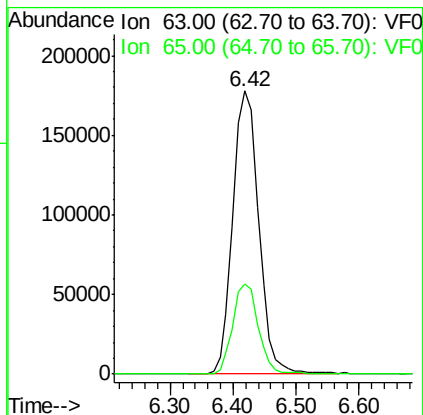
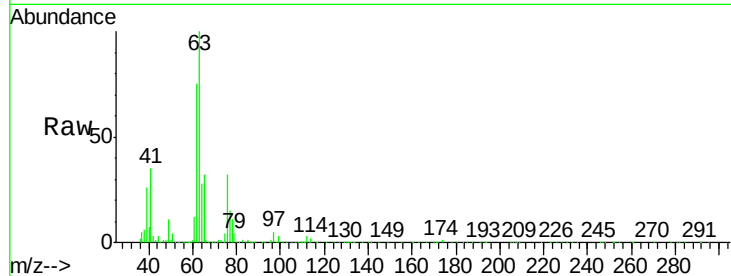
65 32.0 24.2 36.2

Manual Integrations

APPROVED

MMDadoda

6/11/2019 2:54:57 PM



#46

Dibromomethane

Concen: 54.263 ug/l

RT: 6.27 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

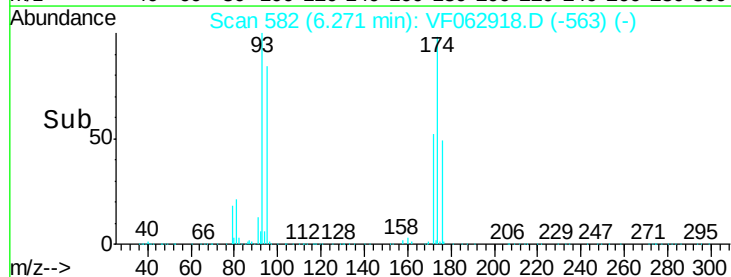
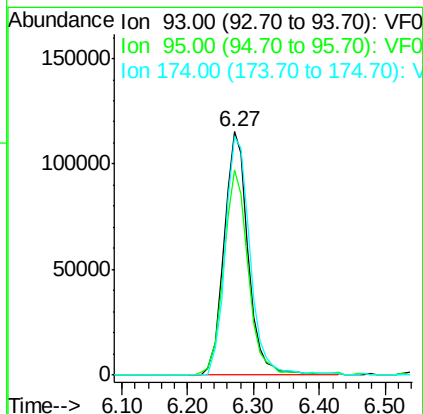
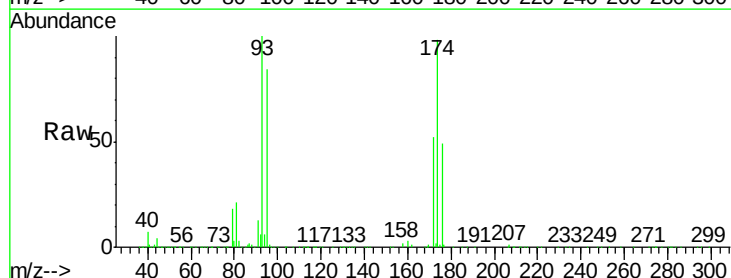
Tgt Ion: 93 Resp: 294666

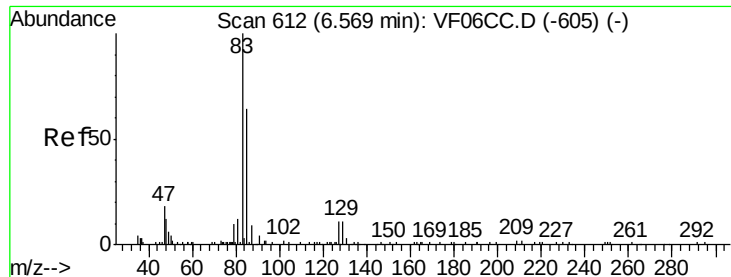
Ion Ratio Lower Upper

93 100

95 84.2 67.9 101.9

174 98.1 85.0 127.4





#47

Bromodichloromethane

Concen: 53.685 ug/l

RT: 6.57 min Scan# 612

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

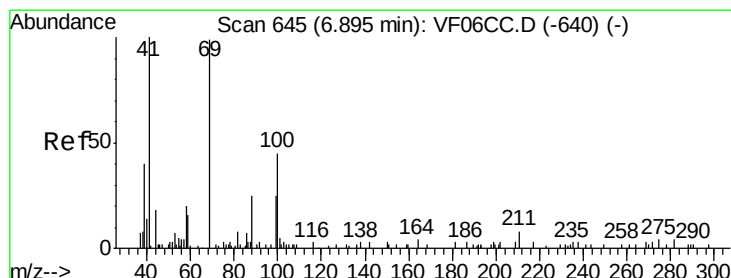
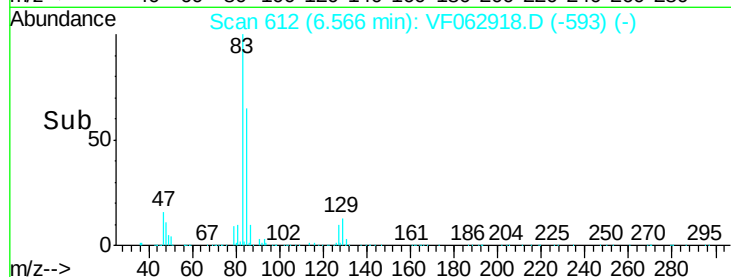
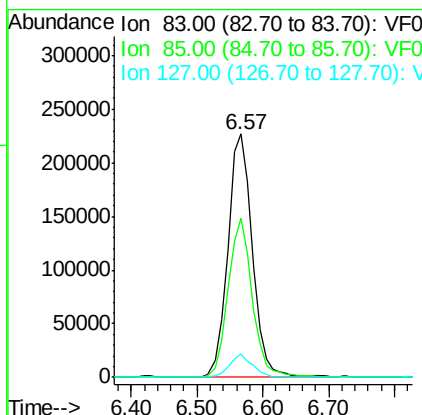
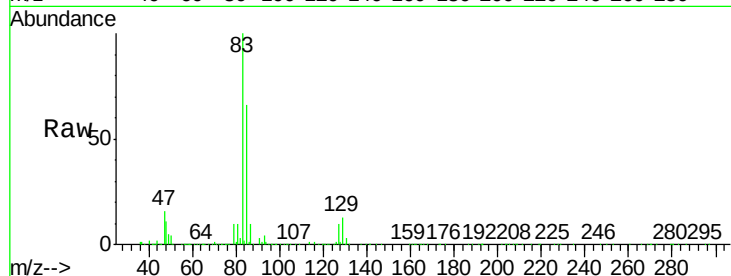
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	593723
Ion Ratio	Lower	Upper	
83	100		
85	65.5	54.2	81.4
127	9.6	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#48

Methyl methacrylate

Concen: 55.970 ug/l

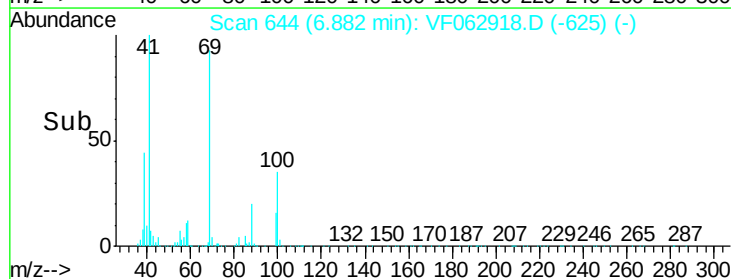
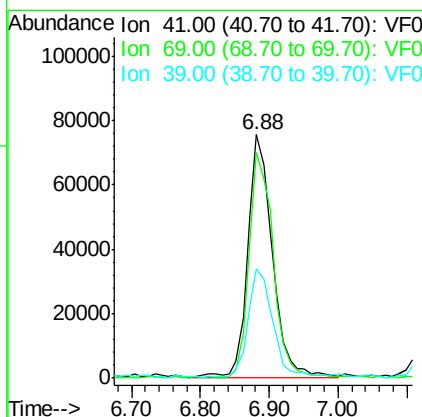
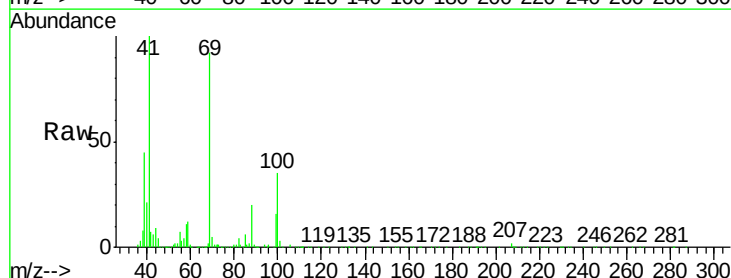
RT: 6.88 min Scan# 644

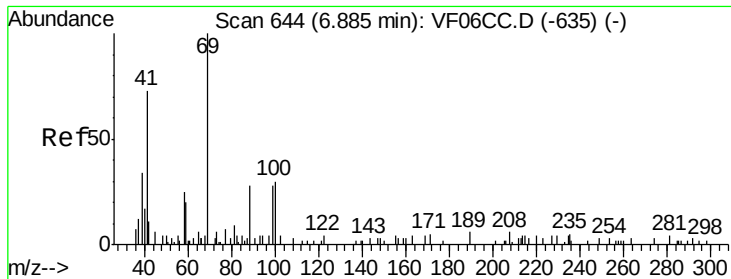
Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	41	Resp:	185501
Ion Ratio	Lower	Upper	
41	100		
69	92.5	79.4	119.2
39	44.9	39.8	59.6





#49

1,4-Dioxane

Concen: 1172.685 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

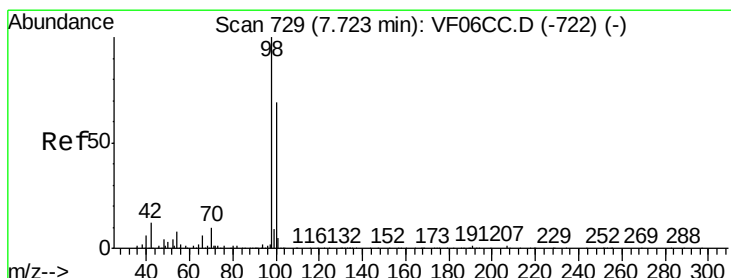
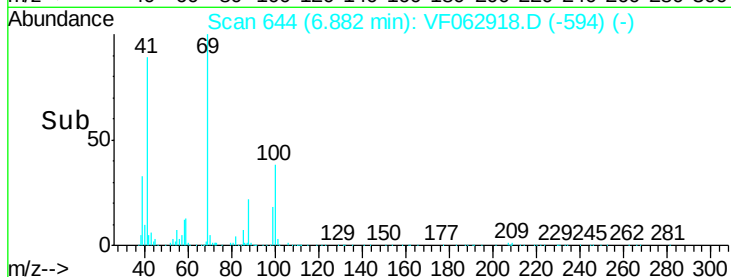
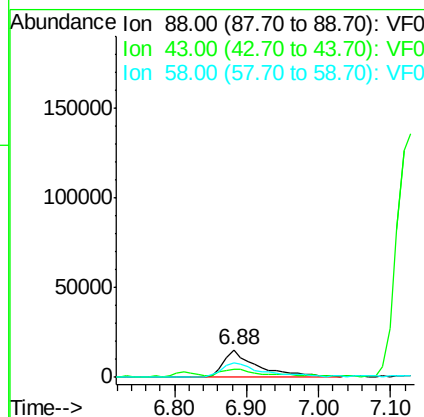
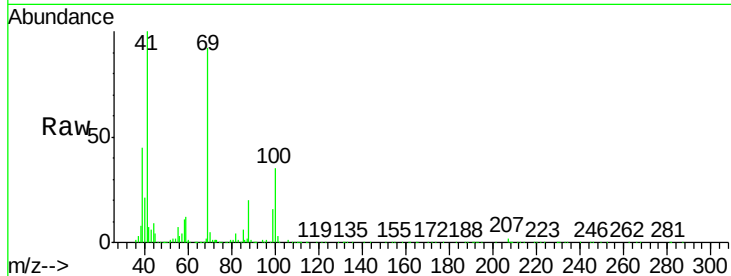
ClientSampleId :

VSTDCCC050EC

Tot Ion:	88	Resp:	51230
Ion Ratio	Lower	Upper	
88	100		
43	31.4	34.8	52.2#
58	55.1	59.9	89.9#

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#50

Toluene-d8

Concen: 52.552 ug/l

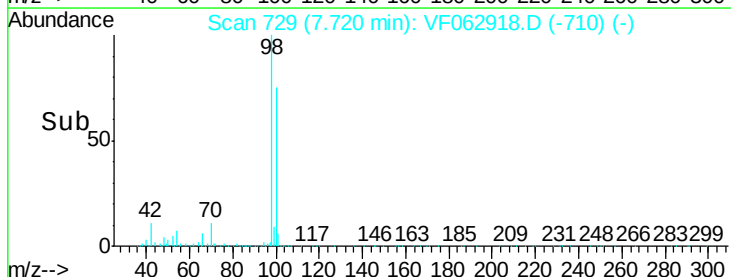
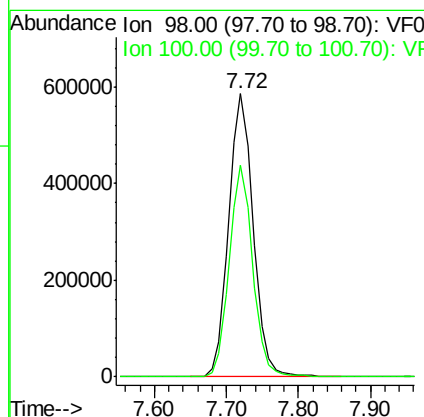
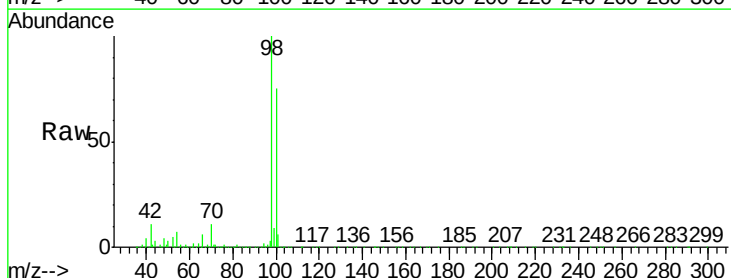
RT: 7.72 min Scan# 729

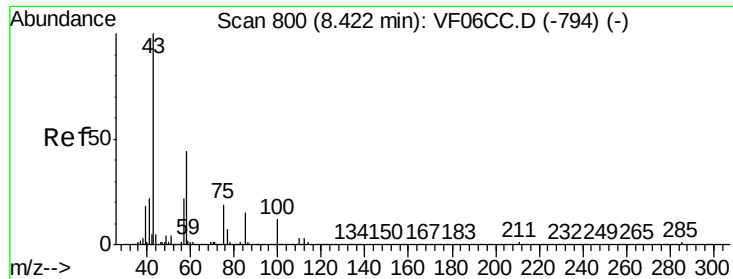
Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	98	Resp:	1389178
Ion Ratio	Lower	Upper	
98	100		
100	74.9	59.8	89.8





#51

4-Methyl-2-Pentanone

Concen: 260.592 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1196462

Ion Ratio Lower Upper

43 100

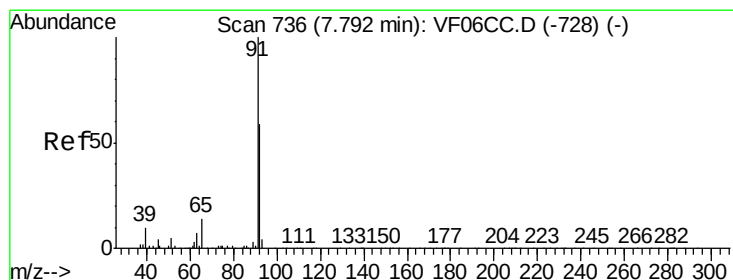
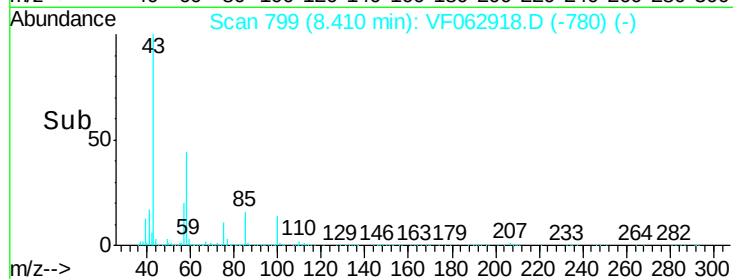
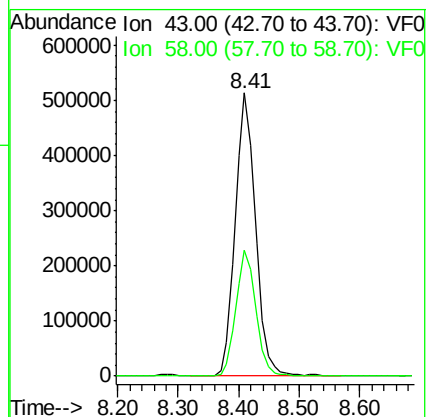
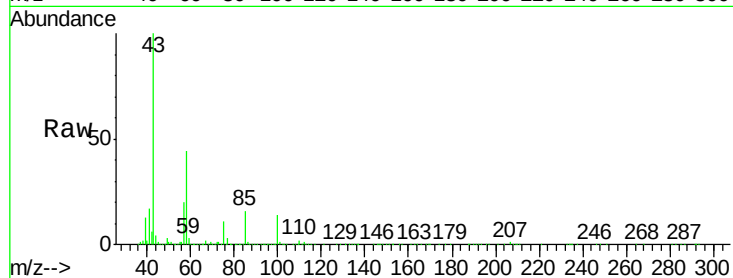
58 44.4 35.5 53.3

Manual Integrations

APPROVED

MMDadoda

6/11/2019 2:54:57 PM



#52

Toluene

Concen: 52.259 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.02 min

Lab File: VF062918.D

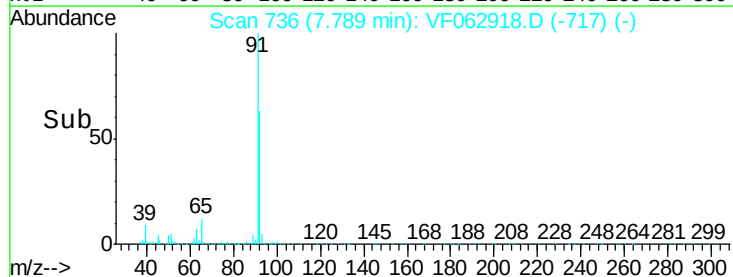
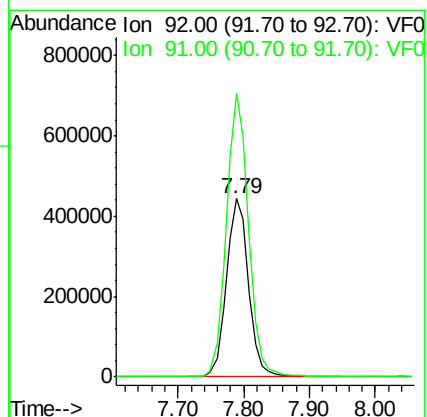
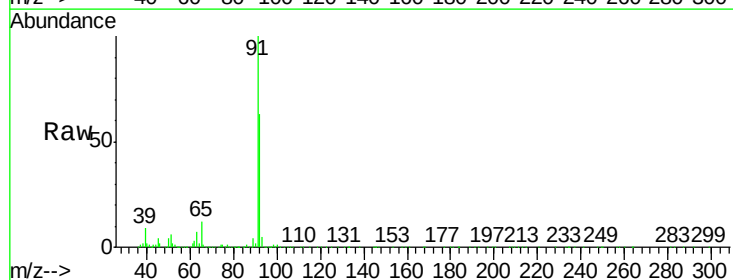
Acq: 10 Jun 2019 20:45

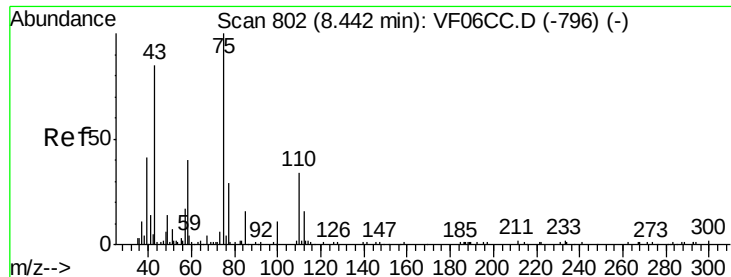
Tgt Ion: 92 Resp: 1043245

Ion Ratio Lower Upper

92 100

91 159.2 123.2 184.8





#53

t-1,3-Dichloropropene

Concen: 52.548 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 481562

Ion Ratio Lower Upper

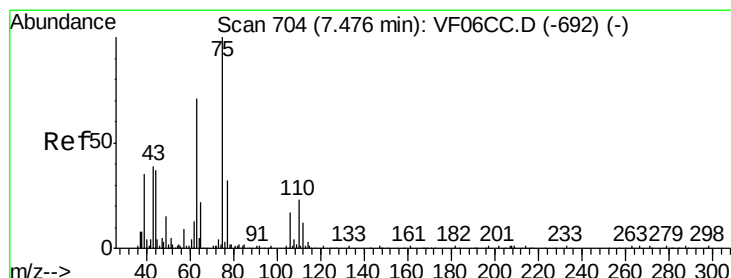
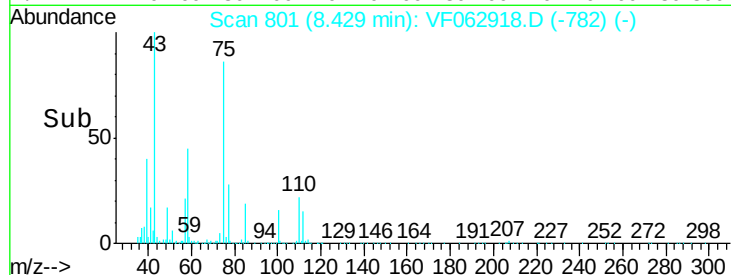
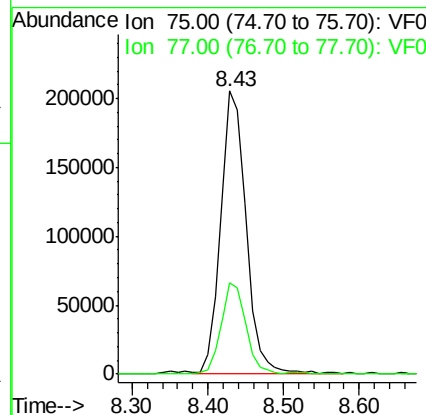
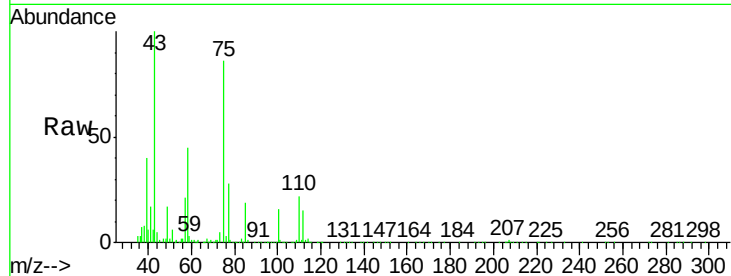
75 100

77 32.4 25.7 38.5

Manual Integrations
APPROVED

MMDadoda

6/11/2019 2:54:57 PM



#54

cis-1,3-Dichloropropene

Concen: 50.489 ug/l

RT: 7.47 min Scan# 704

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

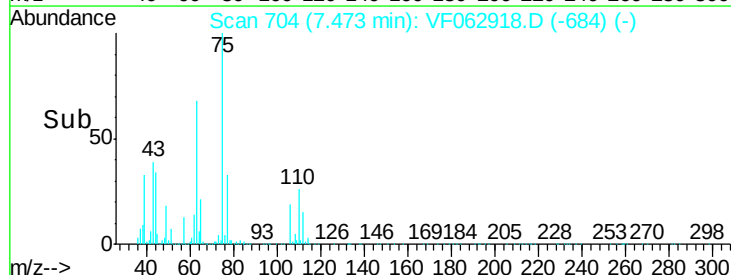
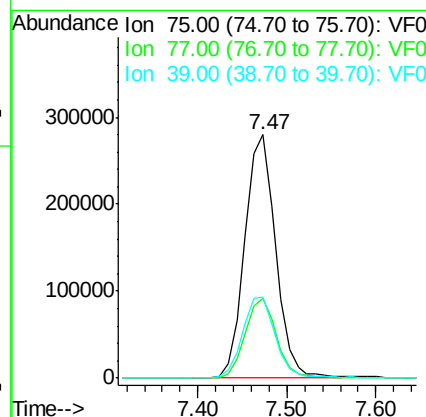
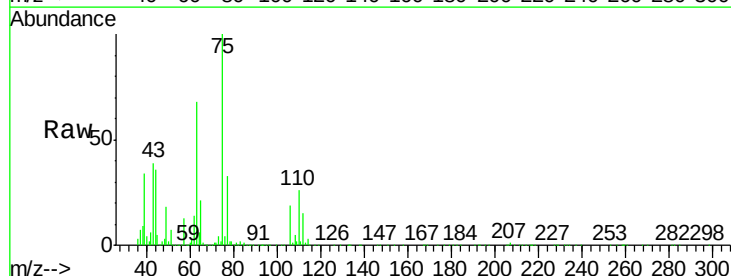
Tgt Ion: 75 Resp: 669763

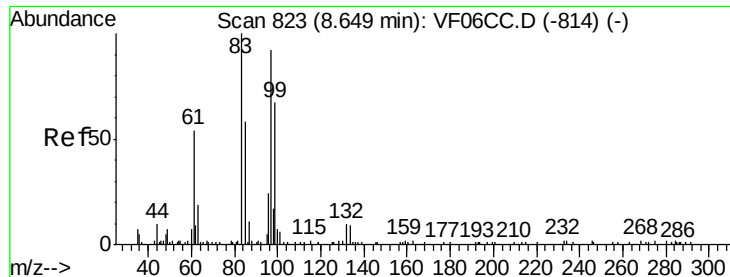
Ion Ratio Lower Upper

75 100

77 32.9 25.8 38.8

39 33.6 28.4 42.6





#55

1,1,2-Trichloroethane

Concen: 54.321 ug/l

RT: 8.65 min Scan# 823

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 97 Resp: 323966

Ion Ratio Lower Upper

97 100

83 87.9 72.0 108.0

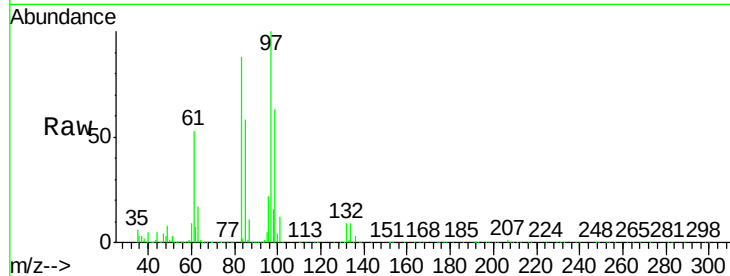
85 58.0 47.5 71.3

99 63.1 54.1 81.1

Manual Integrations
APPROVED

MMDadoda

6/11/2019 2:54:57 PM

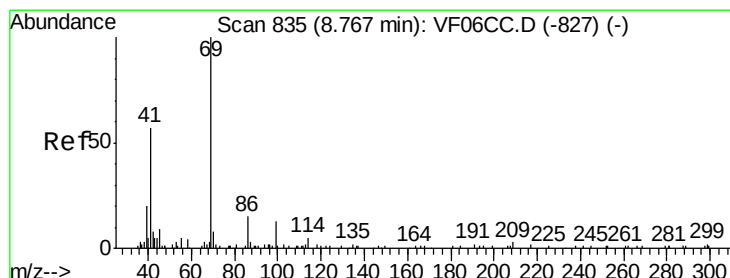
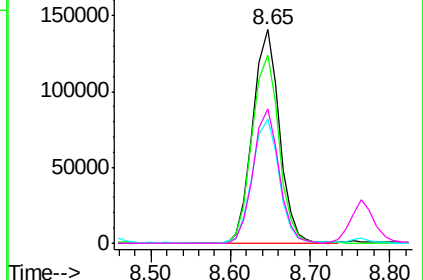
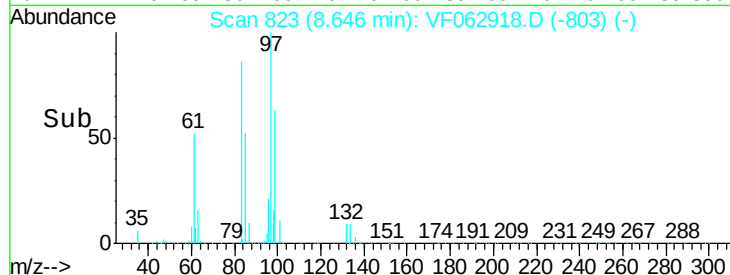


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 52.598 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

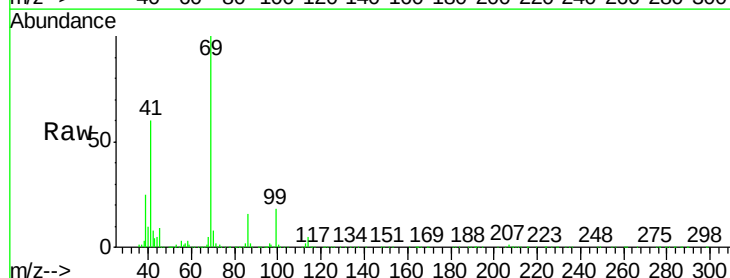
Tgt Ion: 69 Resp: 336581

Ion Ratio Lower Upper

69 100

41 60.1 46.6 69.8

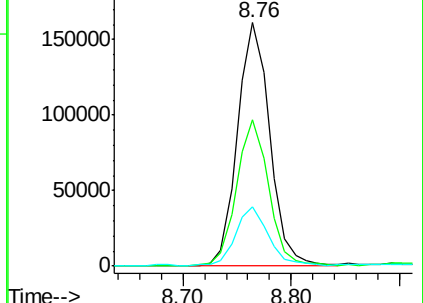
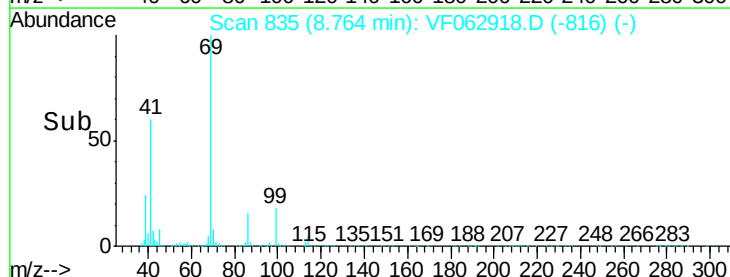
39 24.5 19.6 29.4

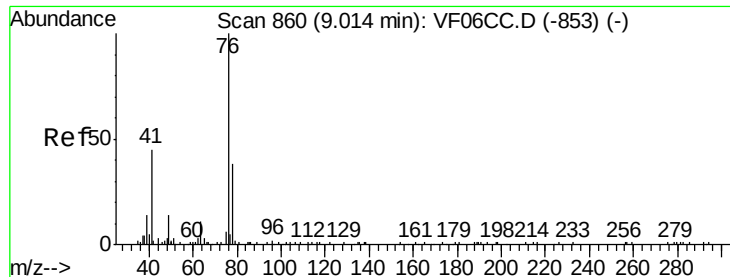


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 54.459 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 530392

Ion Ratio Lower Upper

76 100

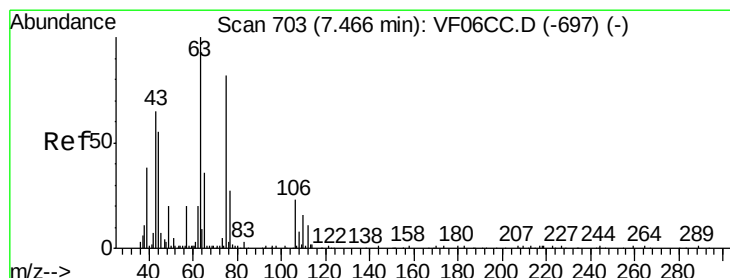
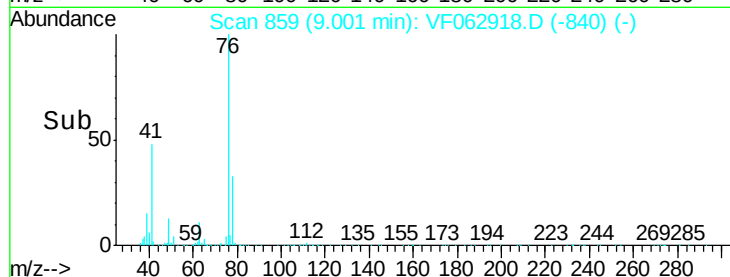
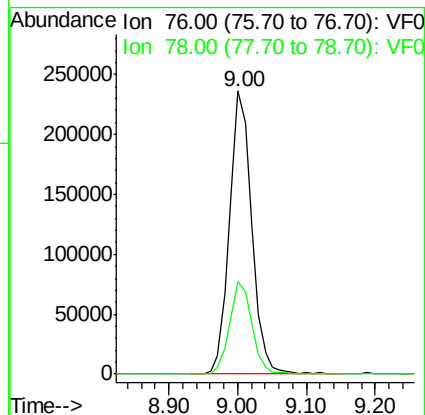
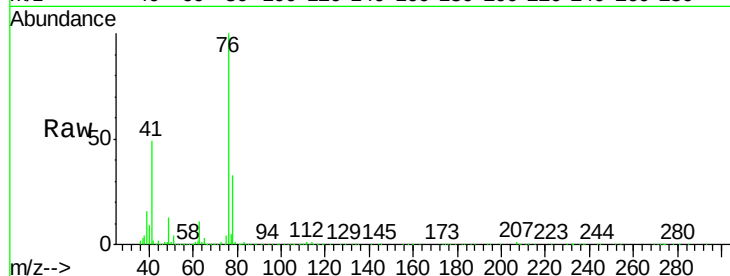
78 32.8 26.8 40.2

Manual Integrations

APPROVED

MMDadoda

6/11/2019 2:54:57 PM



#58

2-Chloroethyl Vinyl ether

Concen: 308.845 ug/l

RT: 7.45 min Scan# 702

Delta R.T. -0.02 min

Lab File: VF062918.D

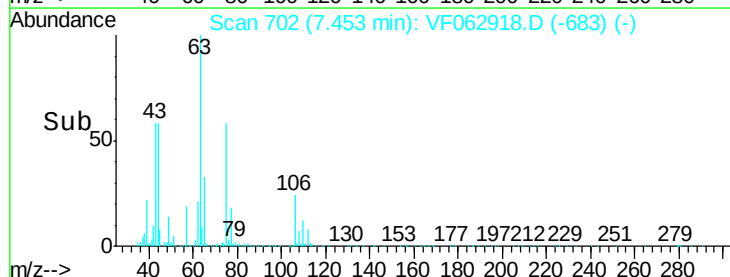
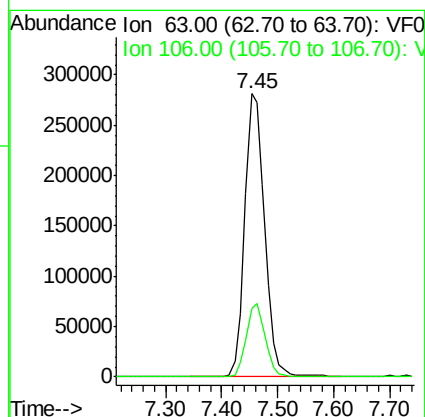
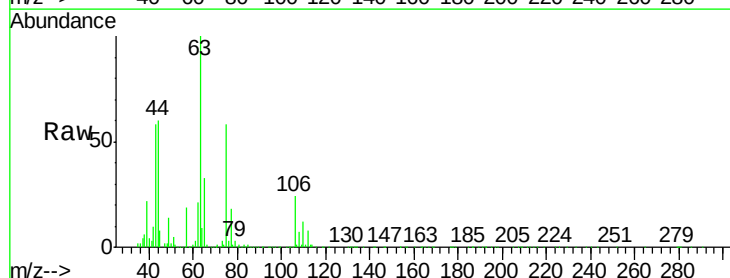
Acq: 10 Jun 2019 20:45

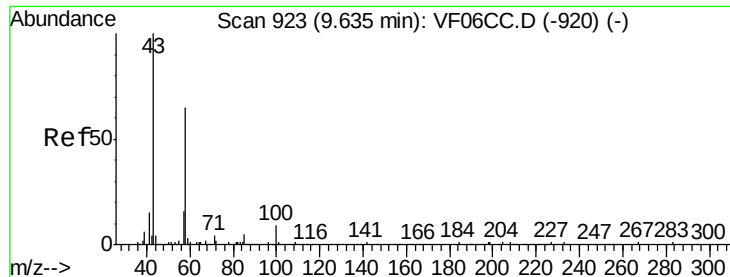
Tgt Ion: 63 Resp: 690712

Ion Ratio Lower Upper

63 100

106 24.0 19.5 29.3





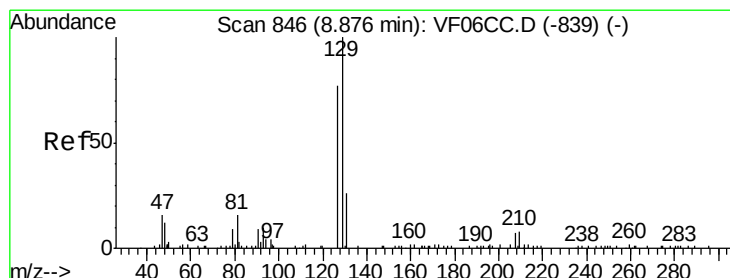
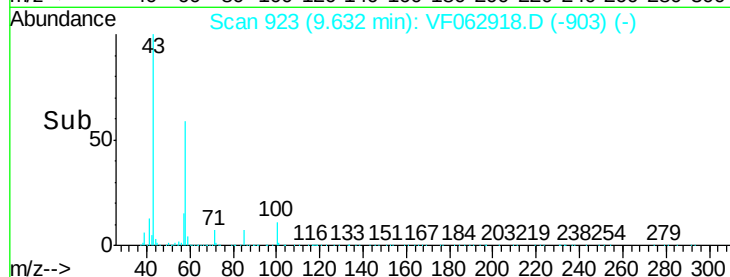
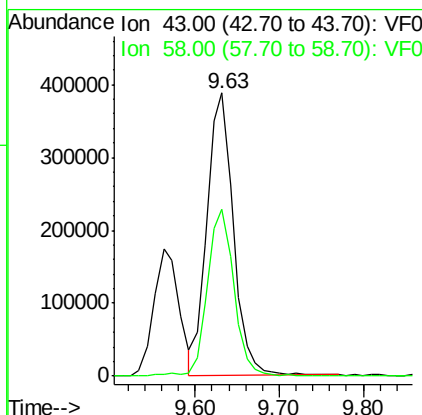
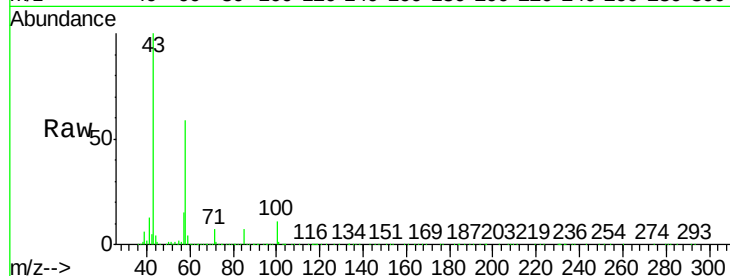
#59
2-Hexanone
Concen: 257.099 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 841368
Ion Ratio Lower Upper
43 100
58 59.0 29.3 87.9

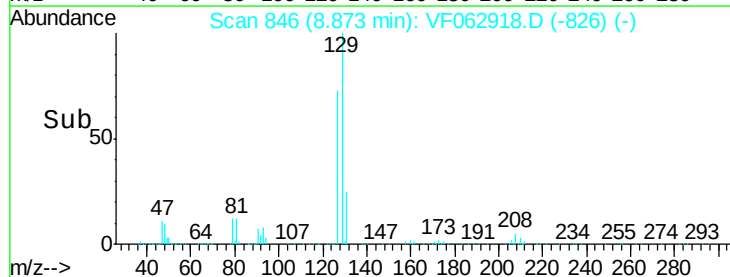
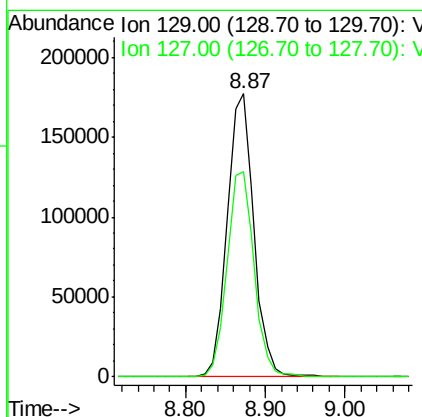
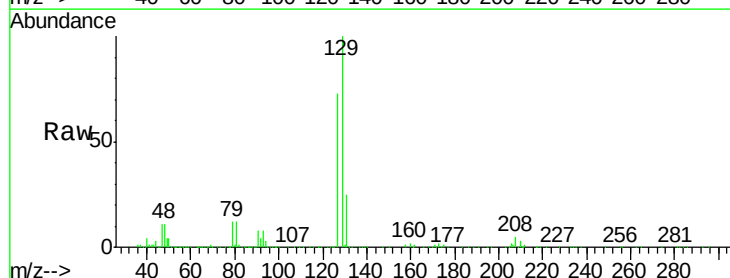
Manual Integrations
APPROVED

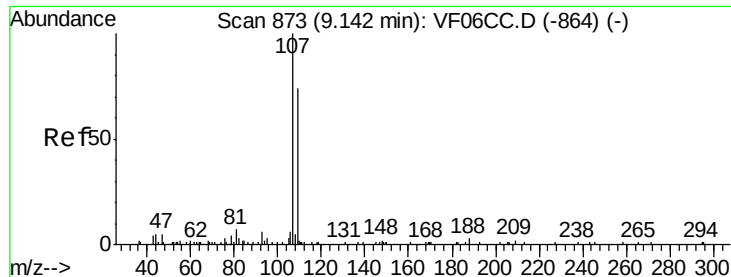
MMDadoda
6/11/2019 2:54:57 PM



#60
Dibromochloromethane
Concen: 56.325 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion: 129 Resp: 415889
Ion Ratio Lower Upper
129 100
127 72.5 37.1 111.3





#61

1,2-Dibromoethane

Concen: 54.923 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 340190

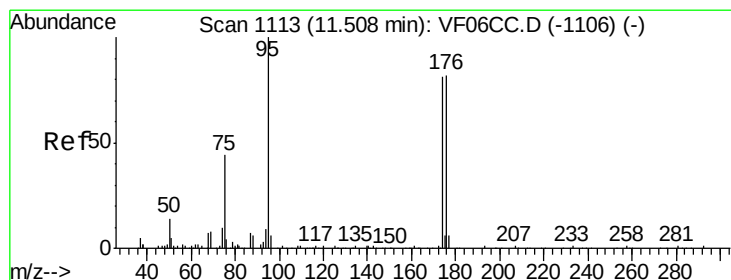
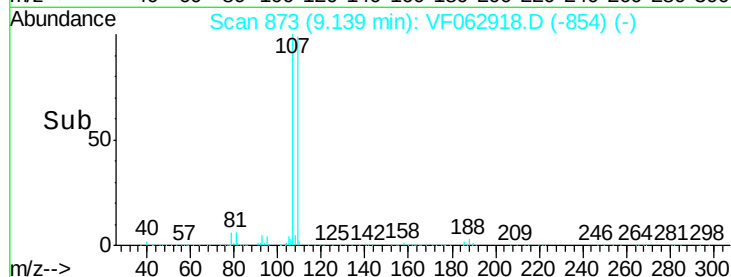
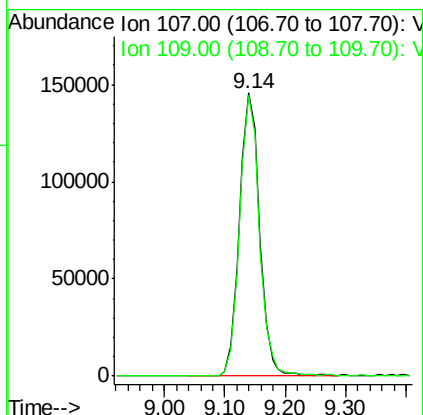
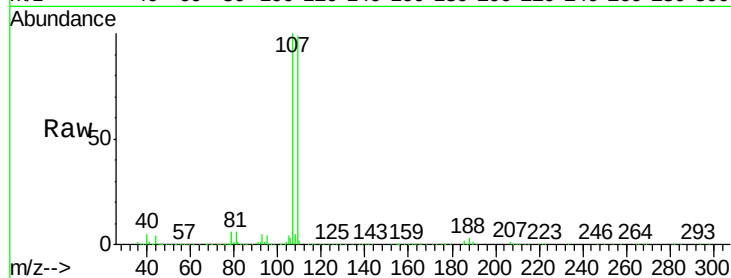
Ion Ratio Lower Upper

107 100

109 99.3 78.1 117.1

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#62

4-Bromofluorobenzene

Concen: 46.919 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

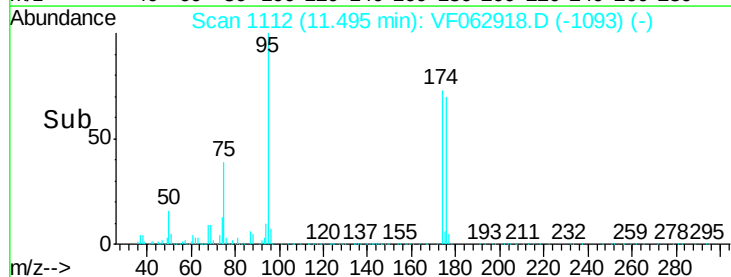
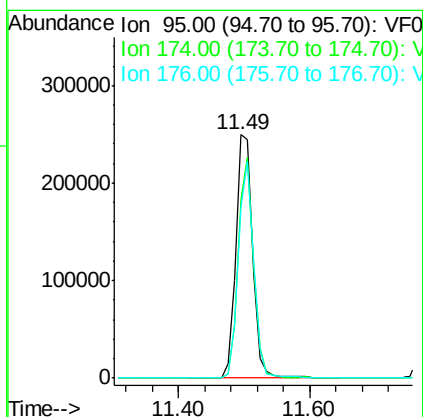
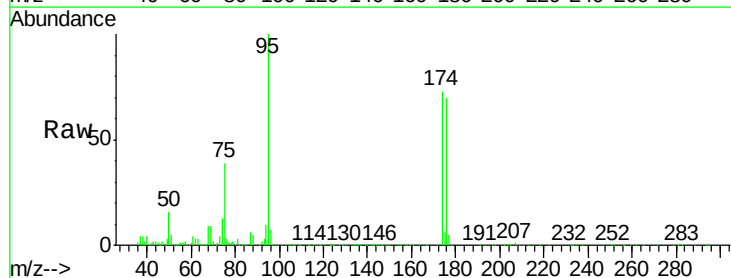
Tgt Ion: 95 Resp: 446146

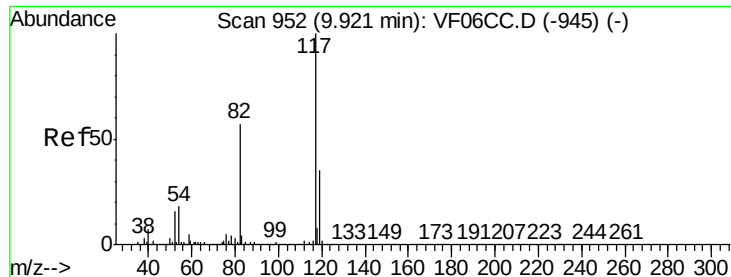
Ion Ratio Lower Upper

95 100

174 73.2 0.0 170.6

176 70.2 0.0 170.6





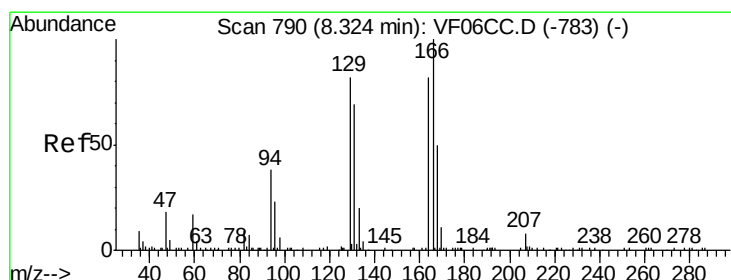
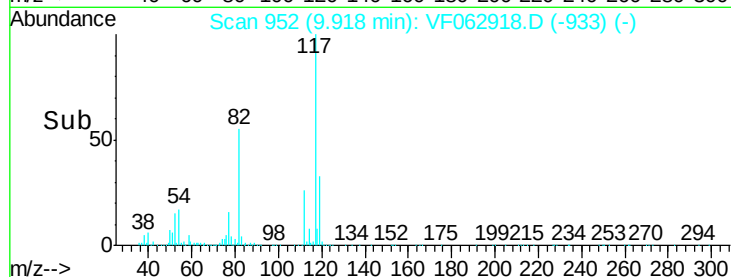
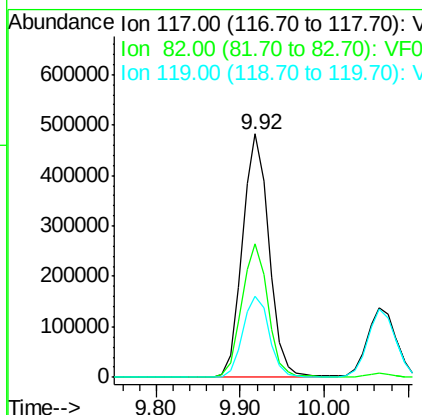
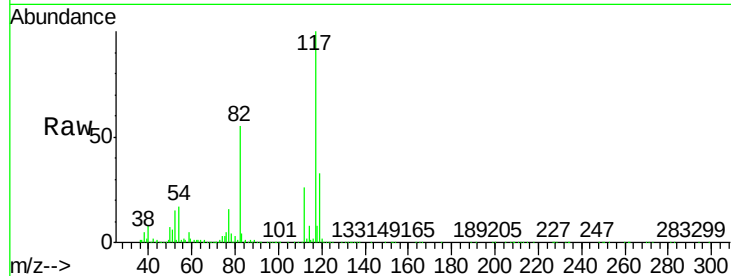
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.8	42.4	63.6
119	33.1	27.1	40.7

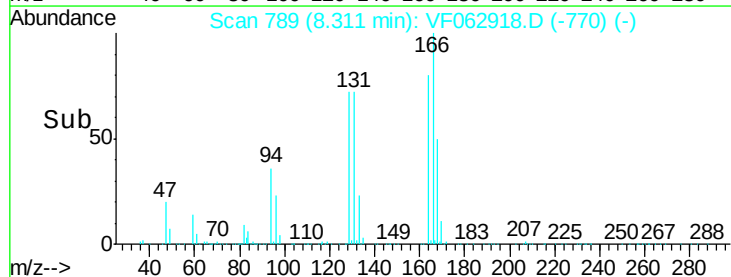
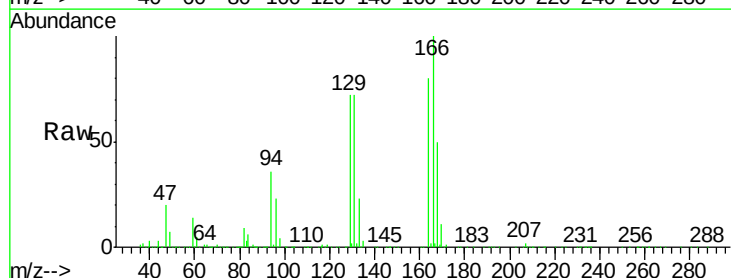
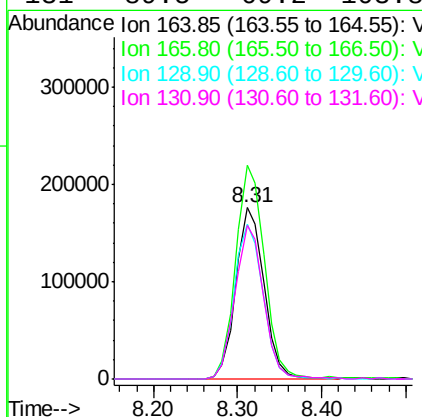
Manual Integrations
APPROVED

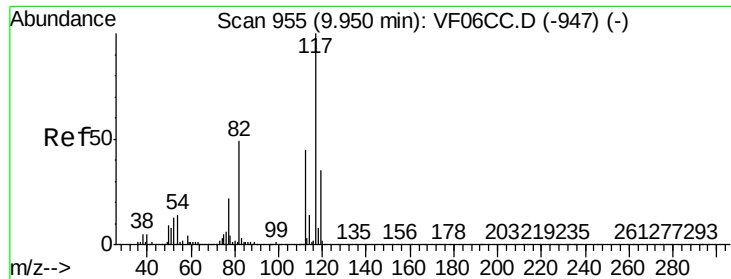
MMDadoda
6/11/2019 2:54:57 PM



#64
Tetrachloroethene
Concen: 50.491 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.7	99.1	148.7
129	90.1	69.5	104.3
131	89.5	69.2	103.8





#65

Chlorobenzene

Concen: 50.614 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 1040252

Ion Ratio Lower Upper

112 100

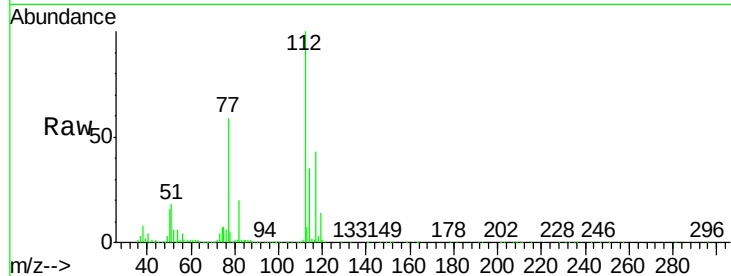
114 34.8 27.4 41.0

Manual Integrations

APPROVED

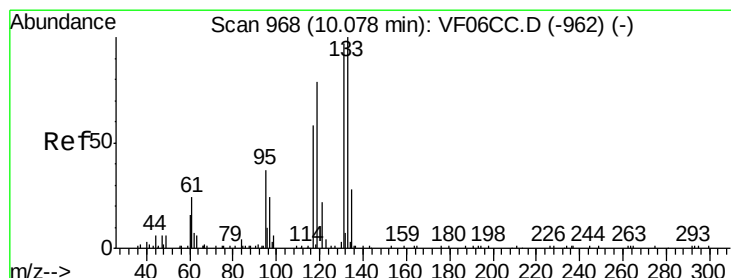
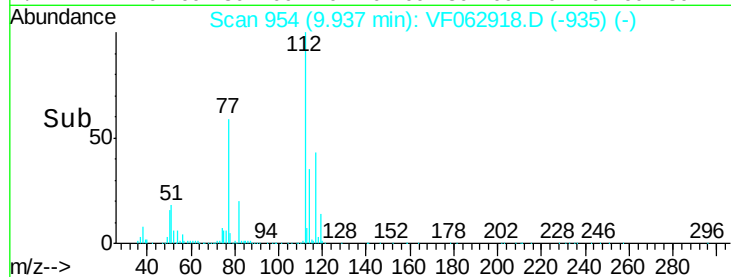
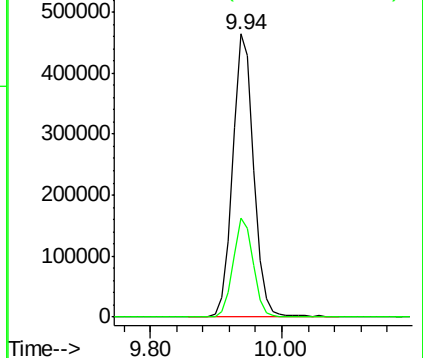
MMDadoda

6/11/2019 2:54:57 PM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 51.395 ug/l

RT: 10.07 min Scan# 967

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

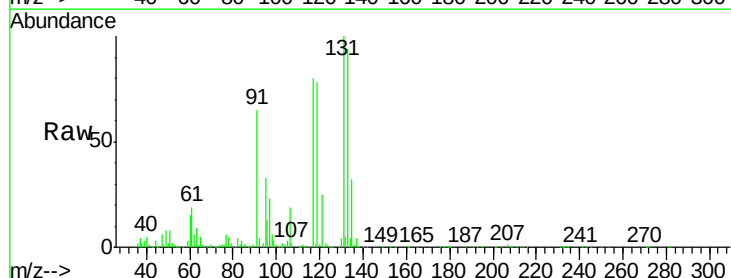
Tgt Ion:131 Resp: 420682

Ion Ratio Lower Upper

131 100

133 94.4 48.9 146.7

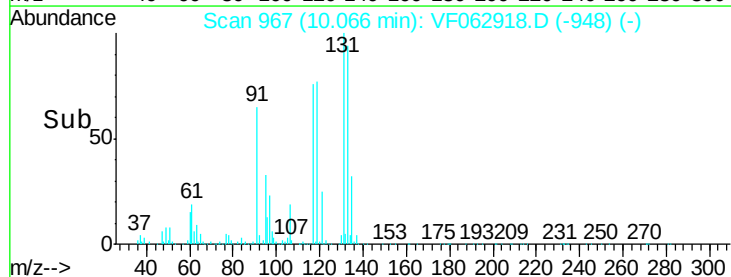
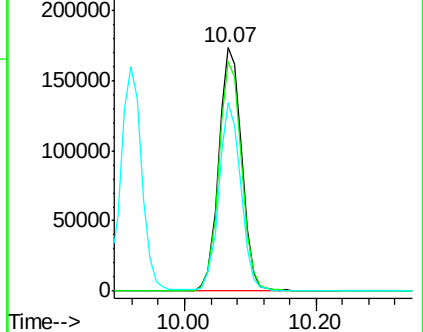
119 77.7 38.0 114.0

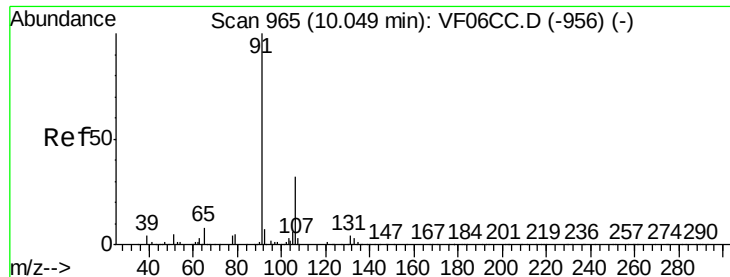


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





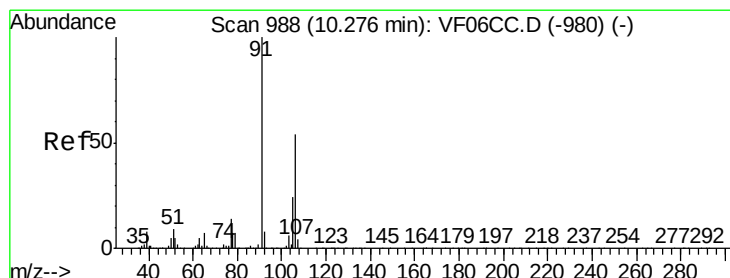
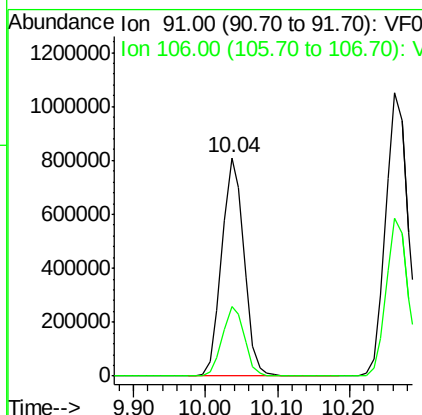
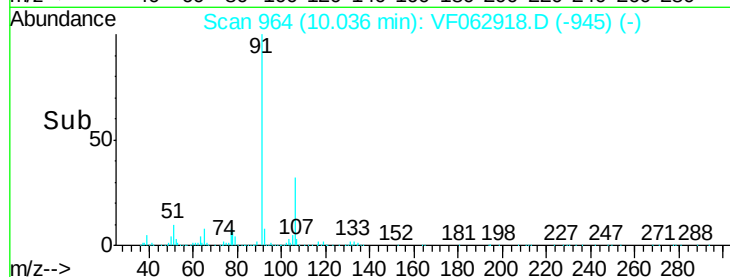
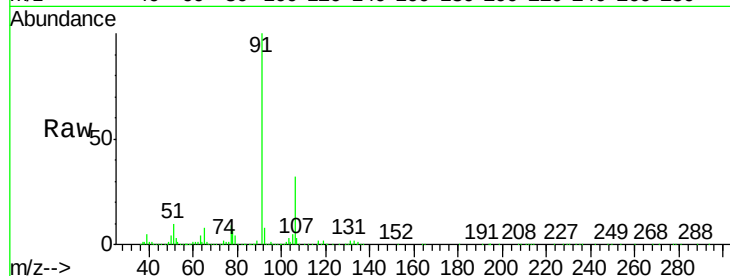
#67
Ethyl Benzene
Concen: 49.404 ug/l
RT: 10.04 min Scan# 964
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 1742462
Ion Ratio Lower Upper
91 100
106 31.9 26.0 39.0

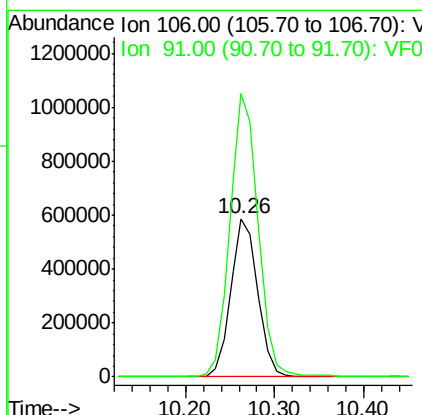
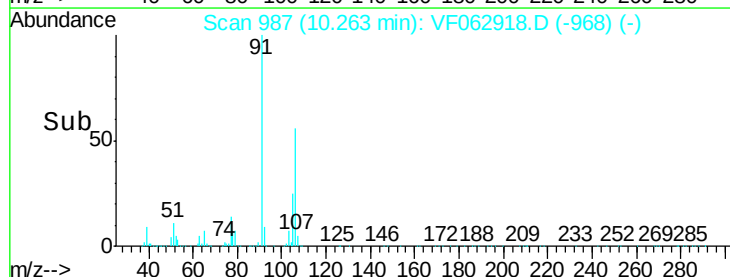
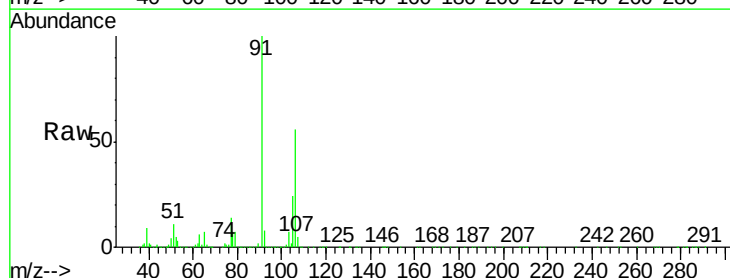
Manual Integrations
APPROVED

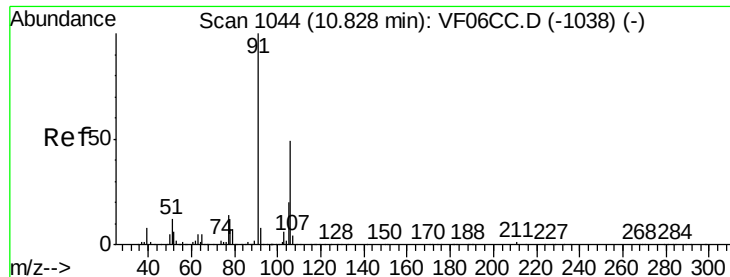
MMDadoda
6/11/2019 2:54:57 PM



#68
m/p-Xylenes
Concen: 91.938 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion: 106 Resp: 1240825
Ion Ratio Lower Upper
106 100
91 178.9 136.2 204.4





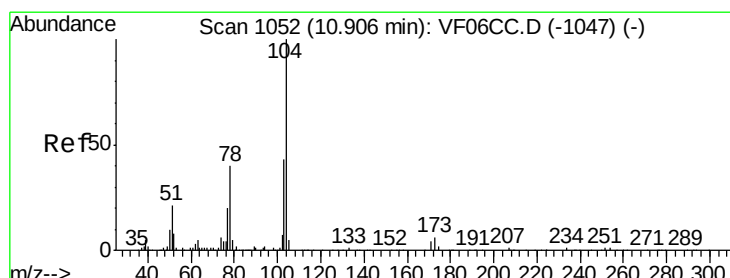
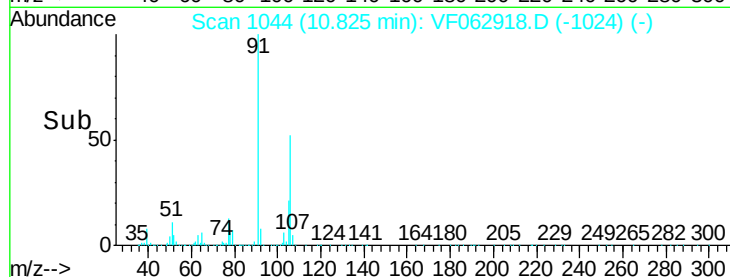
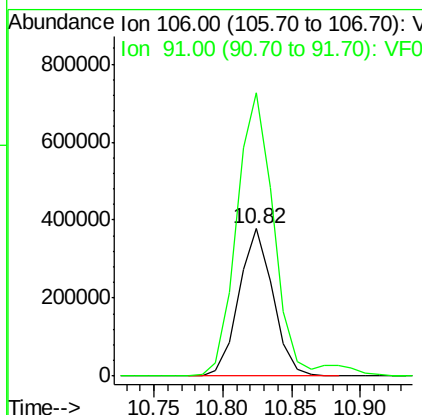
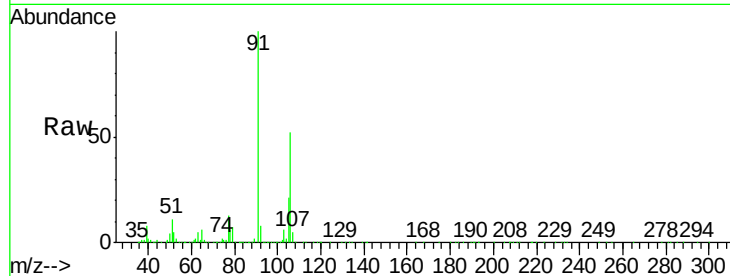
#69
o-Xylene
Concen: 48.066 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 656807
Ion Ratio Lower Upper
106 100
91 191.8 96.6 289.8

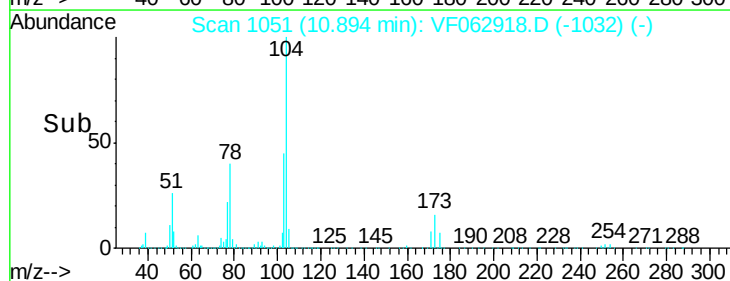
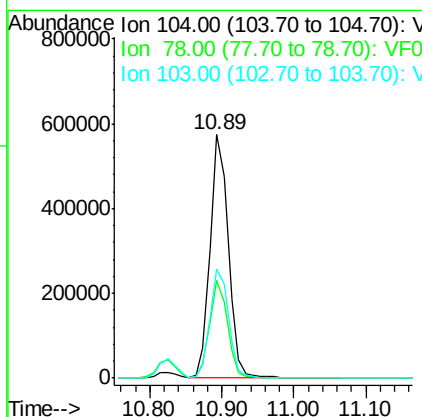
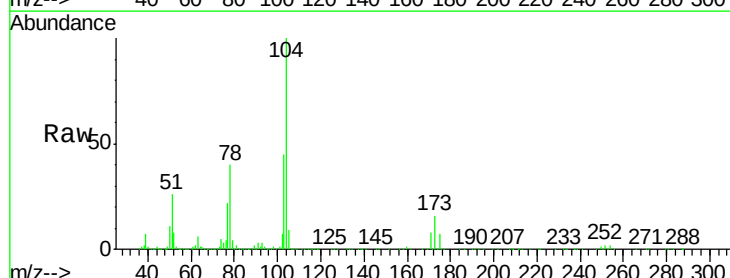
Manual Integrations
APPROVED

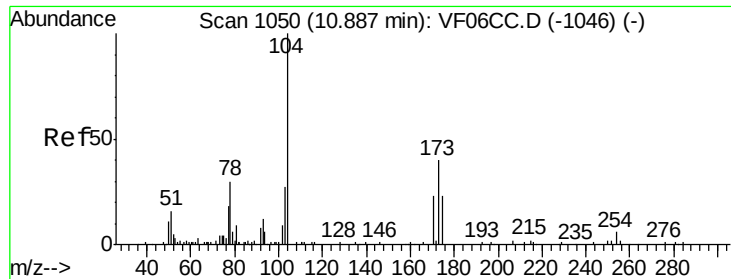
MMDadoda
6/11/2019 2:54:57 PM



#70
Styrene
Concen: 49.663 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion:104 Resp: 1000252
Ion Ratio Lower Upper
104 100
78 40.0 30.8 46.2
103 45.0 35.8 53.6





#71

Bromoform

Concen: 55.186 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 21697

Ion Ratio Lower Upper

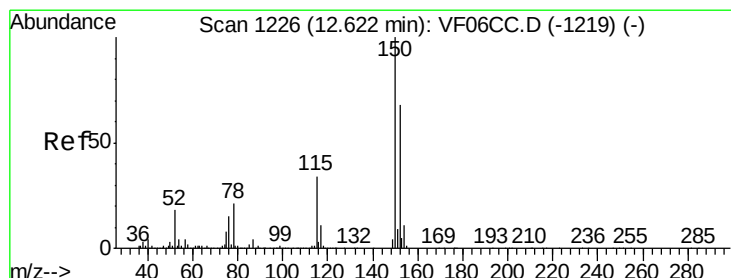
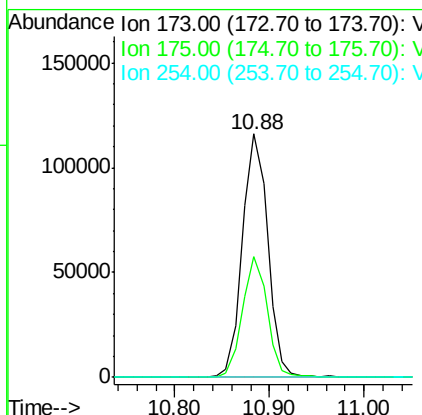
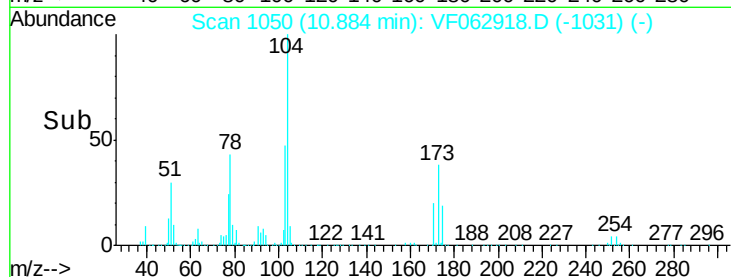
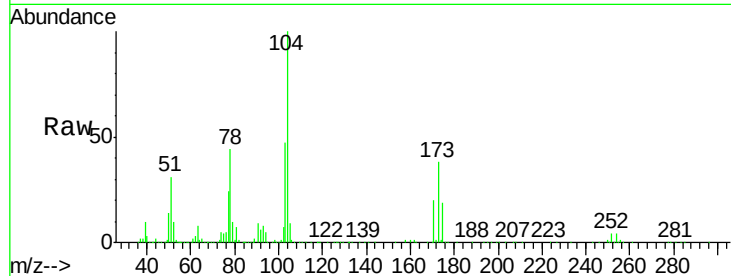
173 100

175 49.8 24.6 74.0

254 0.4 0.1 0.1#

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

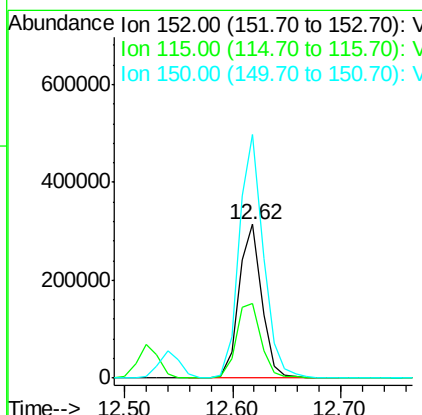
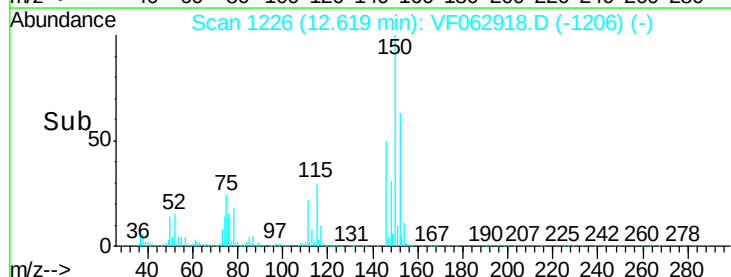
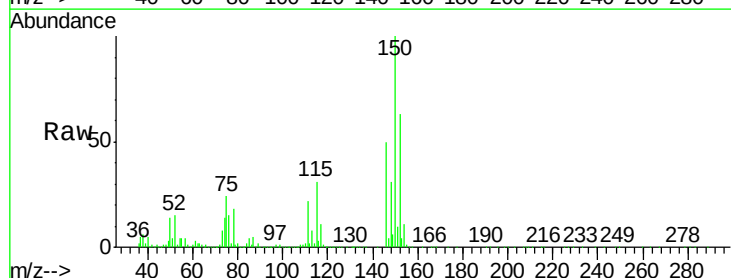
Tgt Ion:152 Resp: 461638

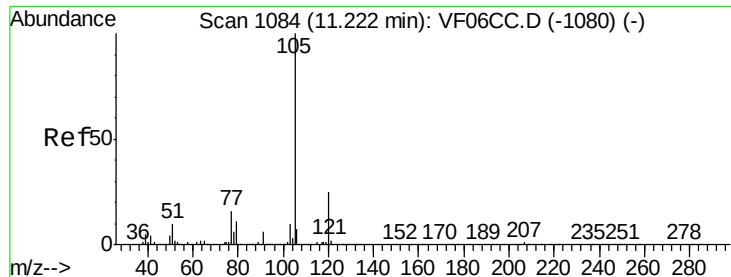
Ion Ratio Lower Upper

152 100

115 48.3 24.6 74.0

150 158.2 0.0 290.6





#73

Isopropylbenzene

Concen: 54.061 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1741368

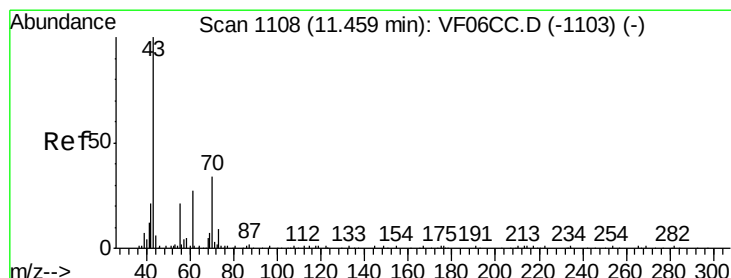
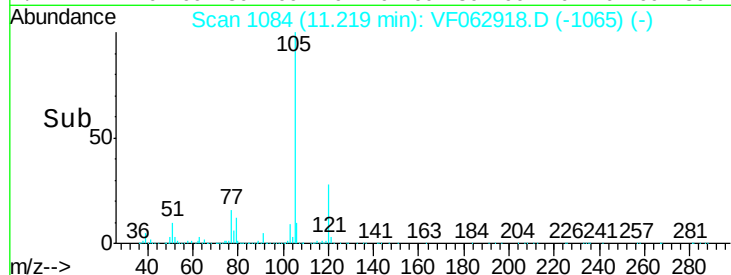
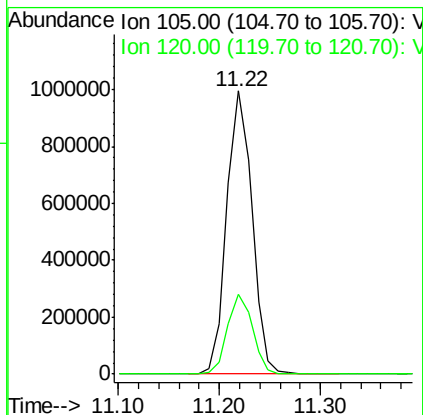
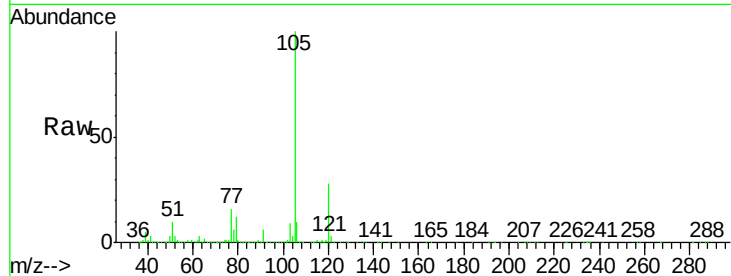
Ion Ratio Lower Upper

105 100

120 28.4 15.1 45.3

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#74

N-ethyl acetate

Concen: 53.089 ug/l

RT: 11.46 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion: 43 Resp: 481973

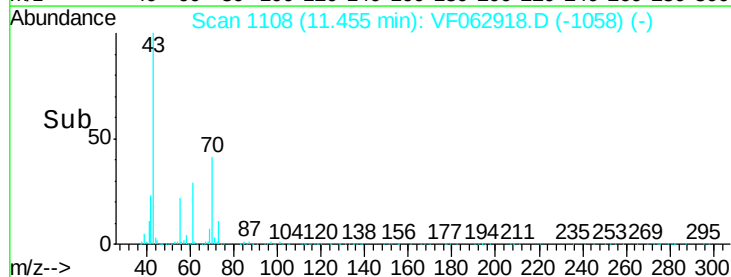
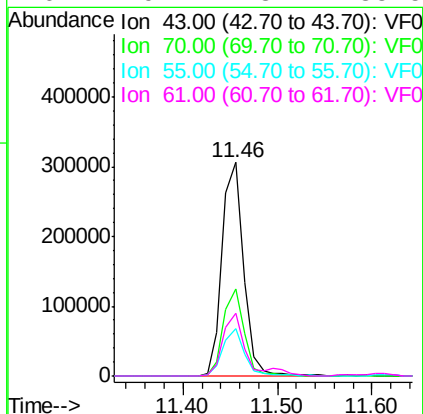
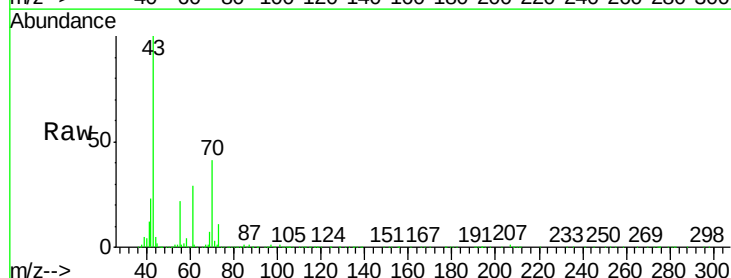
Ion Ratio Lower Upper

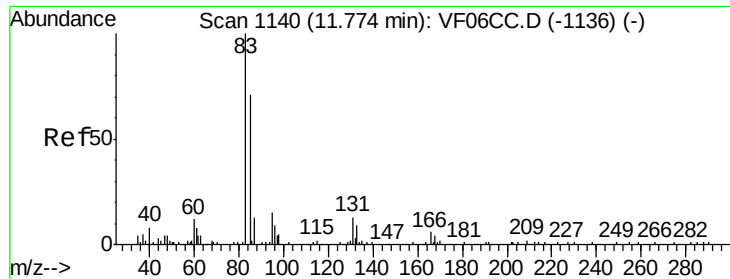
43 100

70 41.0 32.9 49.3

55 22.5 17.3 25.9

61 29.4 23.7 35.5





#75

1,1,2,2-Tetrachloroethane

Concen: 56.987 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

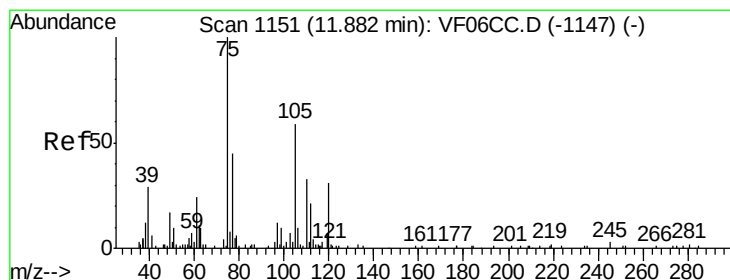
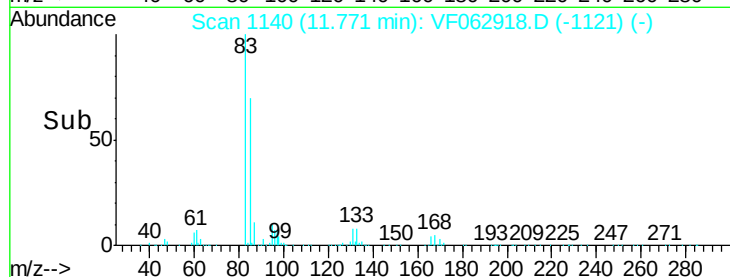
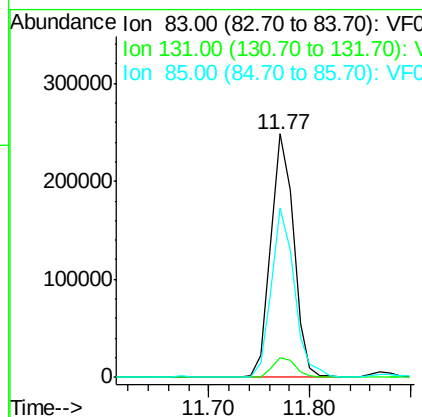
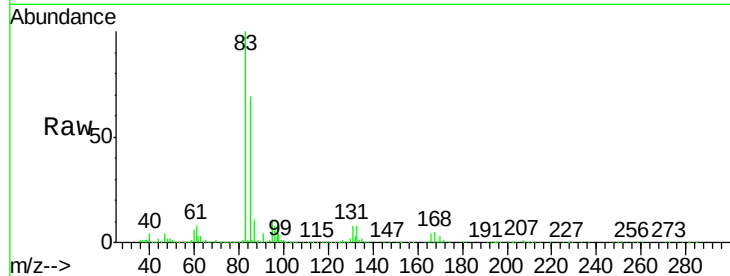
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	391998
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.9	14.7
85	69.5	32.1	96.5

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#76

1,2,3-Trichloropropane

Concen: 54.022 ug/l

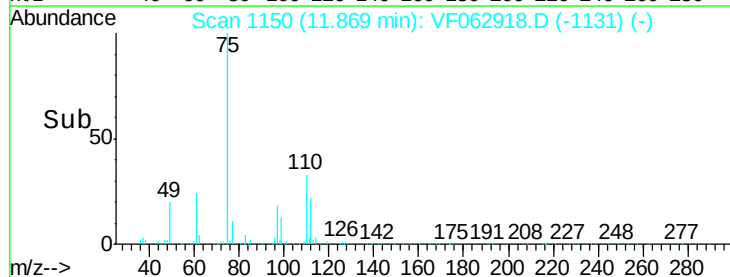
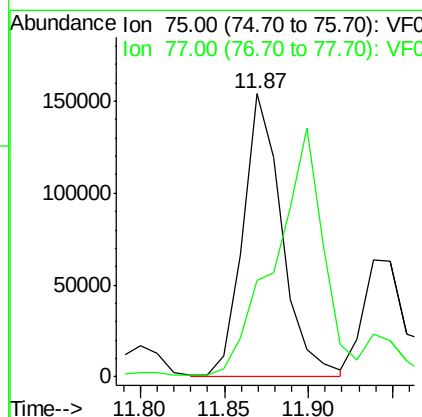
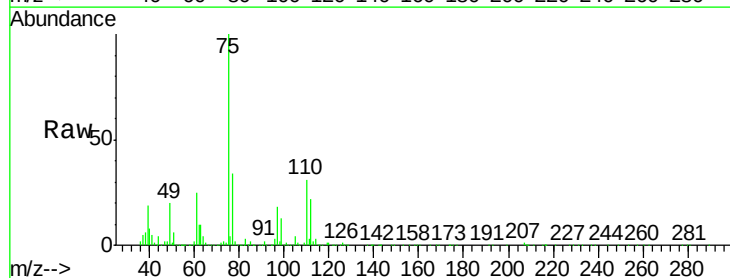
RT: 11.87 min Scan# 1150

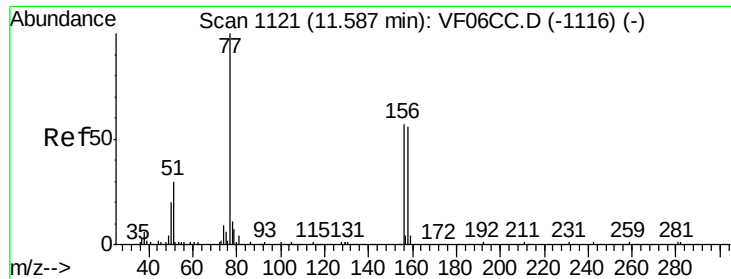
Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	75	Resp:	246322
Ion Ratio	Lower	Upper	
75	100		
77	34.2	20.1	60.2





#77

Bromobenzene

Concen: 52.842 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

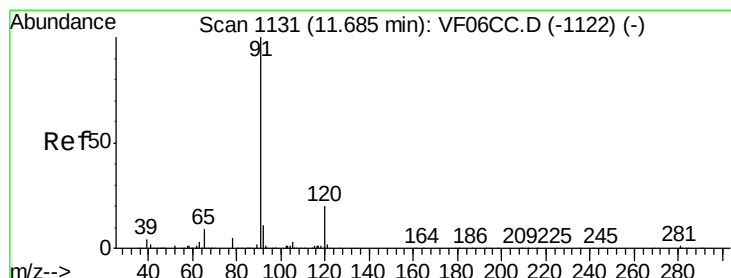
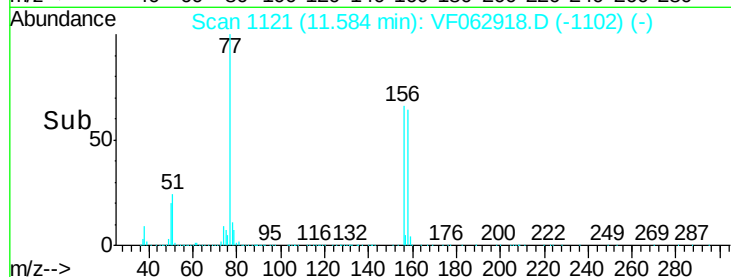
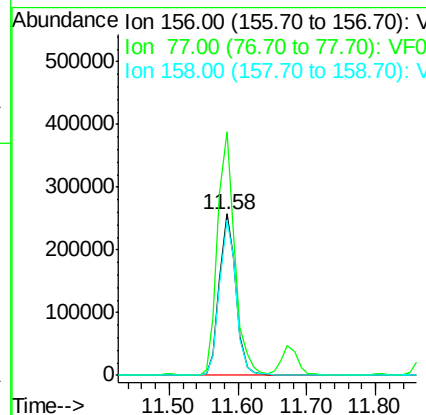
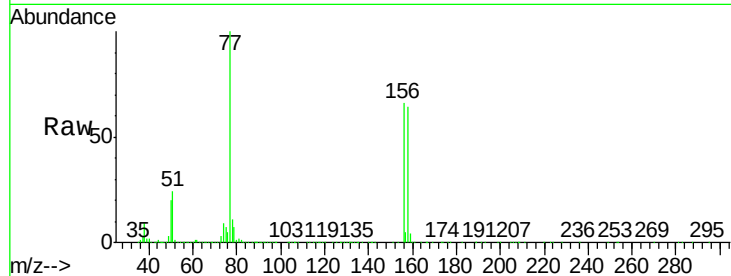
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	427671
Ion Ratio	Lower	Upper	
156	100		
77	151.0	64.2	192.6
158	96.3	50.3	151.0

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#78

n-propylbenzene

Concen: 51.288 ug/l

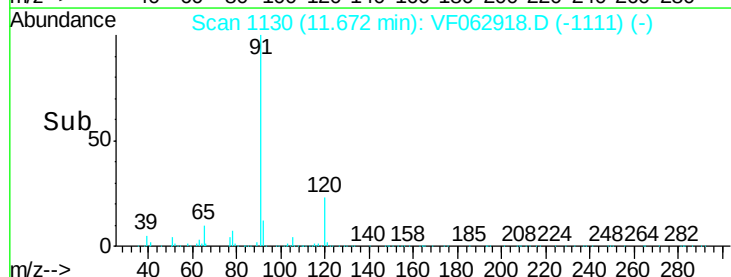
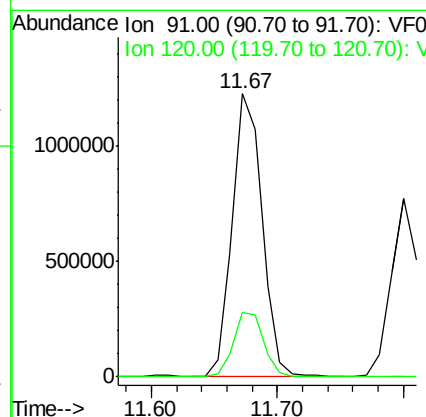
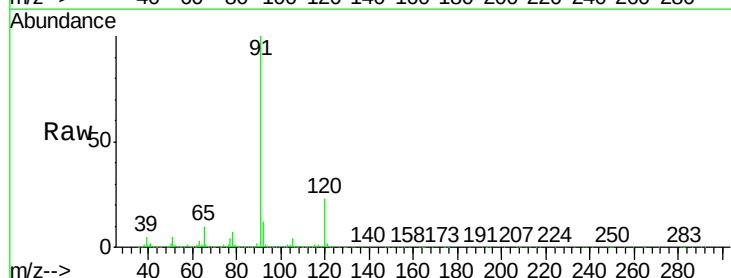
RT: 11.67 min Scan# 1130

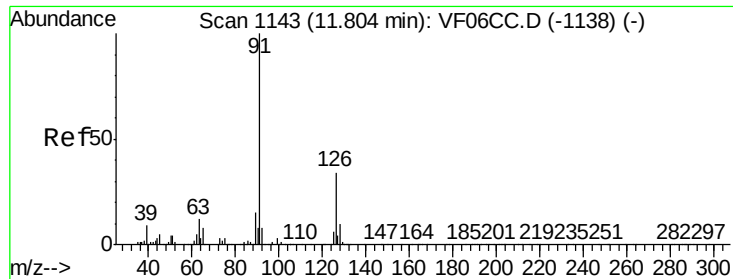
Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	91	Resp:	1994752
Ion Ratio	Lower	Upper	
91	100		
120	22.6	12.8	38.4





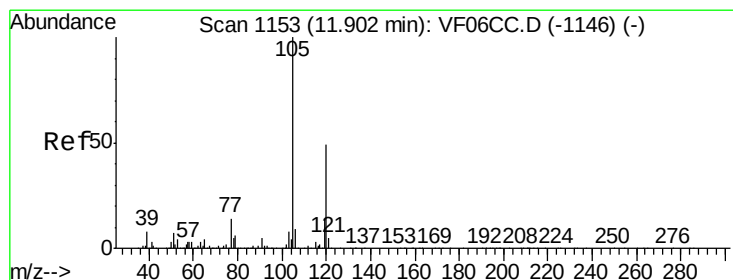
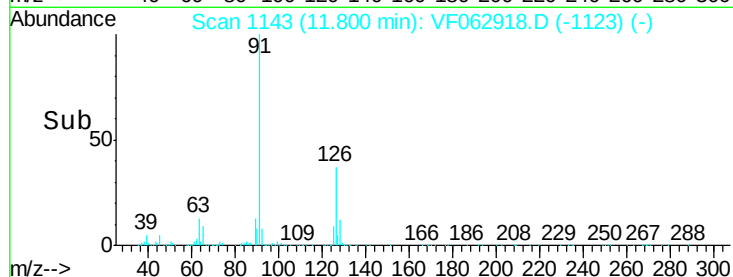
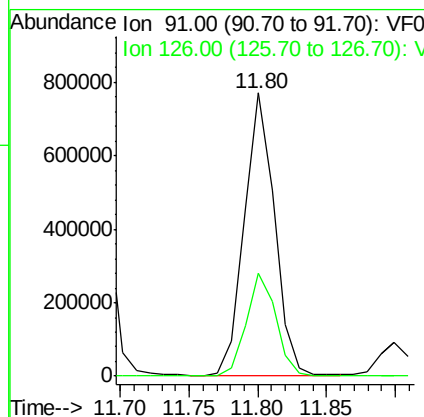
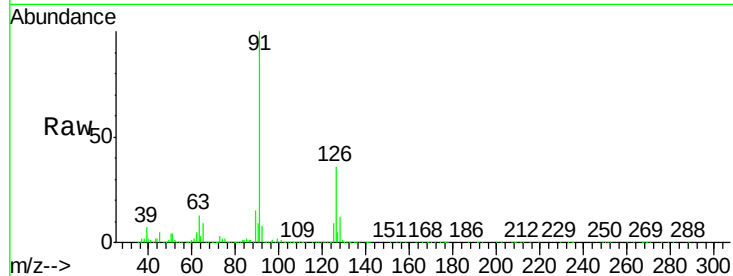
#79
 2-Chlorotoluene
 Concen: 52.994 ug/l
 RT: 11.80 min Scan# 1143
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 91 Resp: 1179341
 Ion Ratio Lower Upper
 91 100
 126 36.4 17.8 53.3

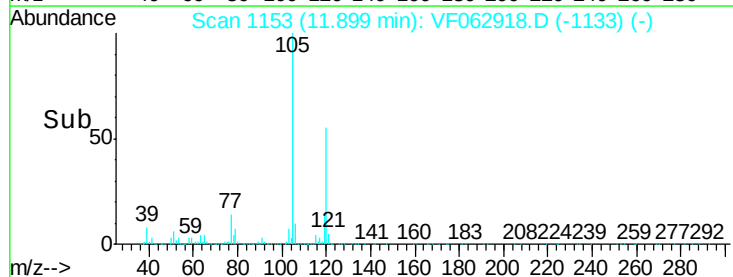
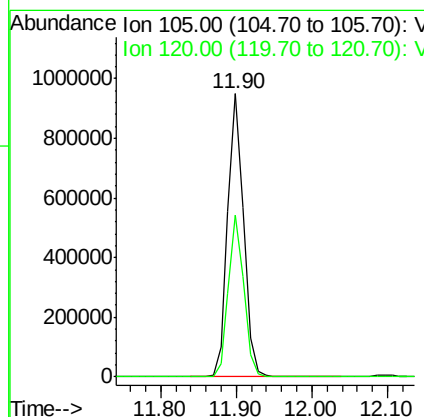
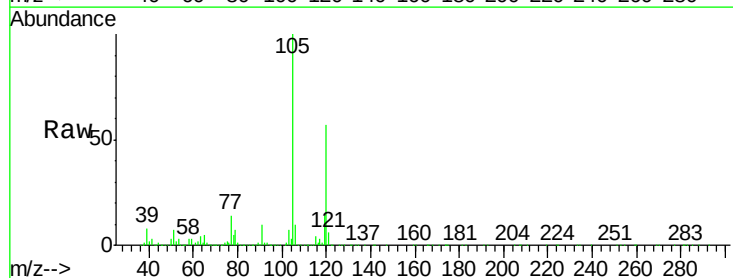
Manual Integrations
 APPROVED

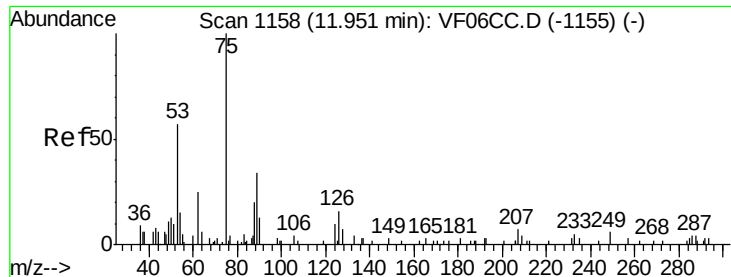
MMDadoda
 6/11/2019 2:54:57 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 52.509 ug/l
 RT: 11.90 min Scan# 1153
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Tgt Ion: 105 Resp: 1383210
 Ion Ratio Lower Upper
 105 100
 120 57.1 28.7 86.1





#81

trans-1,4-Dichloro-2-butene

Concen: 58.299 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

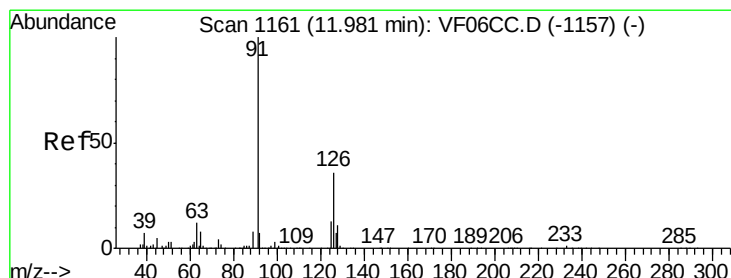
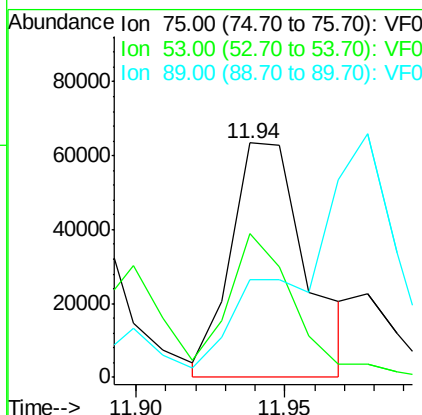
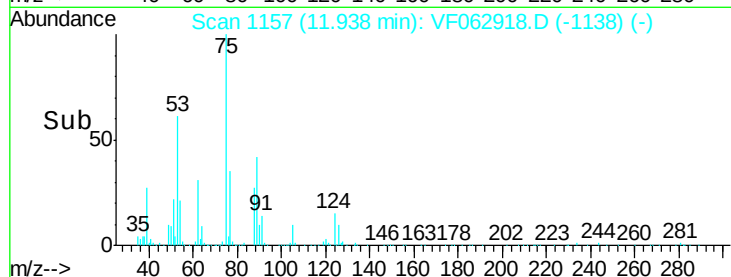
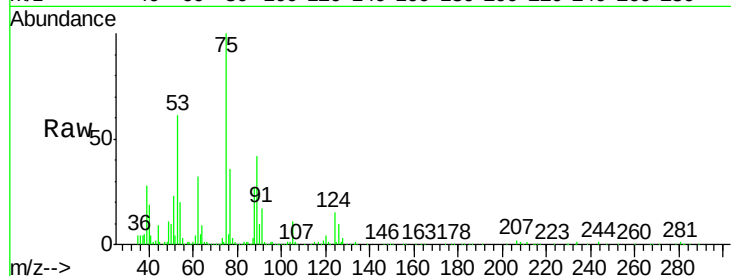
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	112541
Ion Ratio	Lower	Upper	
75	100		
53	61.3	43.5	65.3
89	41.7	34.3	51.5

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#82

4-Chlorotoluene

Concen: 51.529 ug/l

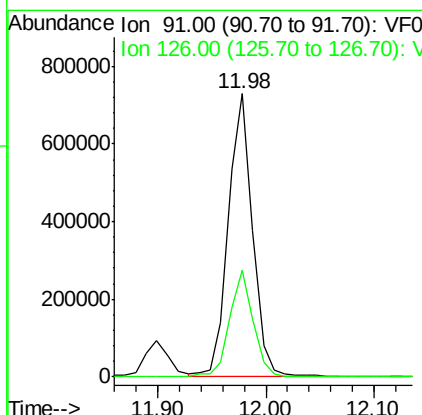
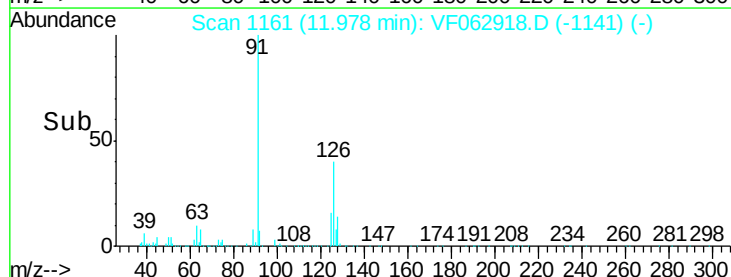
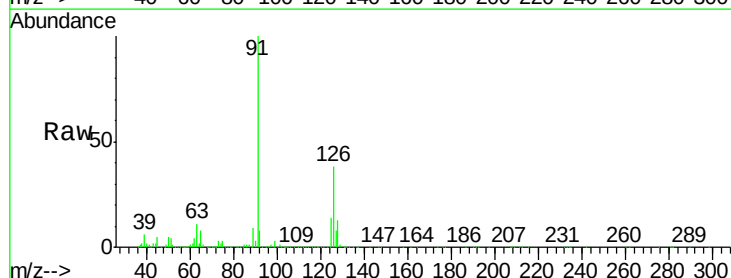
RT: 11.98 min Scan# 1161

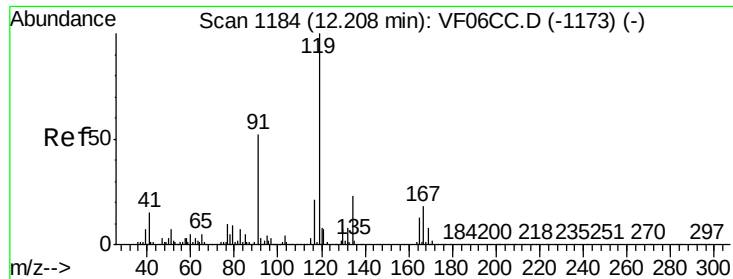
Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	91	Resp:	1126954
Ion Ratio	Lower	Upper	
91	100		
126	37.8	19.1	57.1





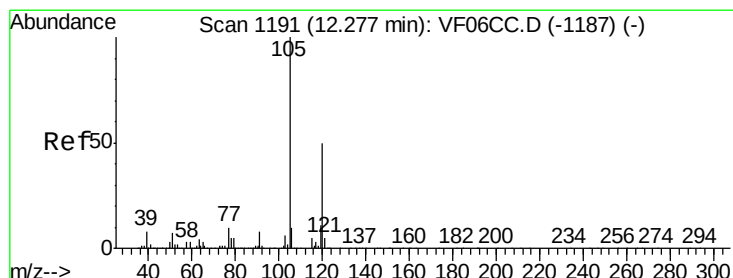
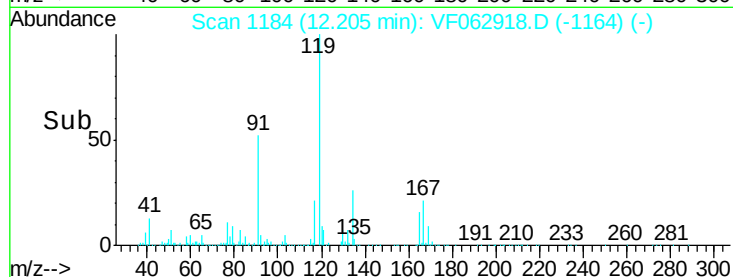
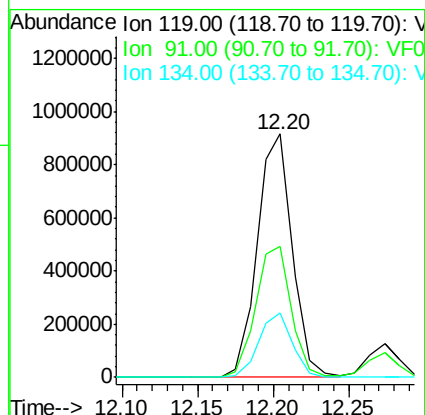
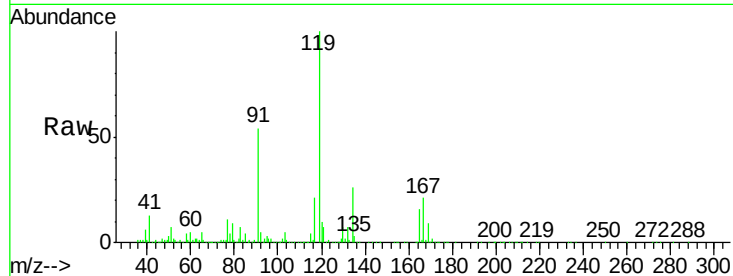
#83
 tert-Butylbenzene
 Concen: 56.657 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
119	100			
91	53.8	28.9	86.7	
134	26.3	14.3	42.9	

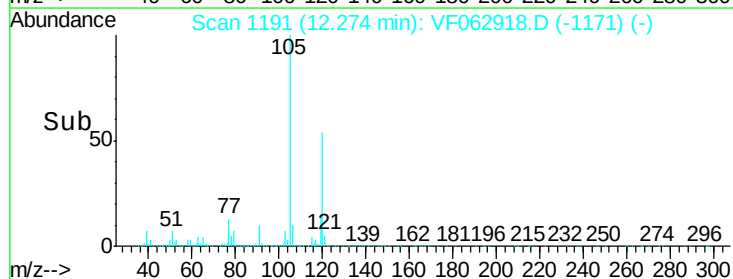
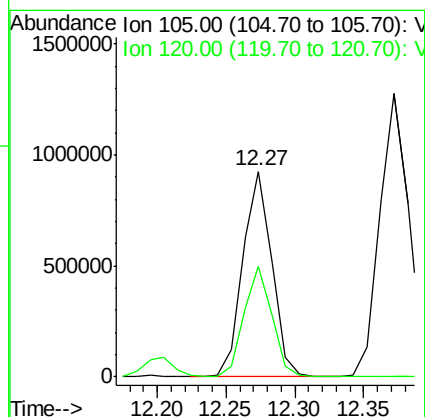
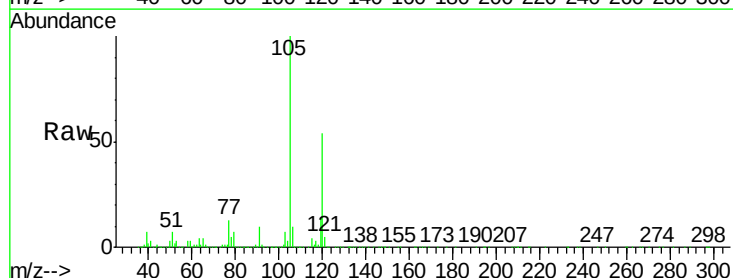
Manual Integrations
 APPROVED

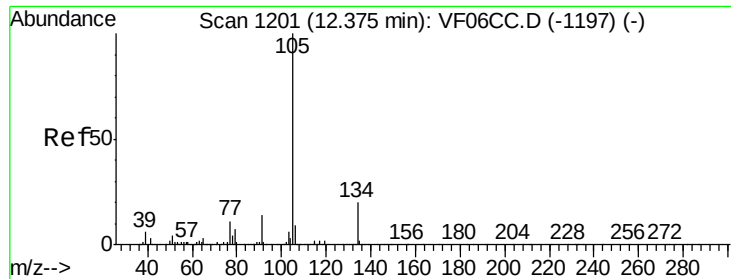
MMDadoda
 6/11/2019 2:54:57 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 54.560 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Tgt Ion	Ion	Ratio	Lower	Upper
105	100			
120	53.7	27.1	81.3	





#85

sec-Butylbenzene

Concen: 54.819 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1885423

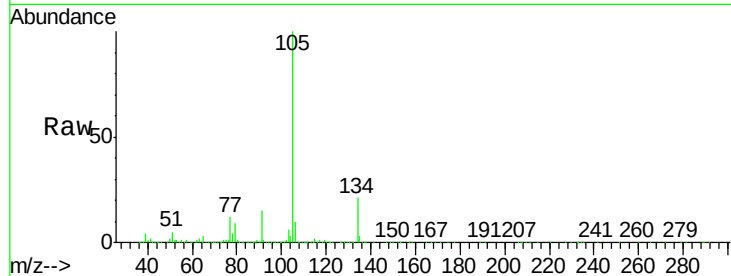
Ion Ratio Lower Upper

105 100

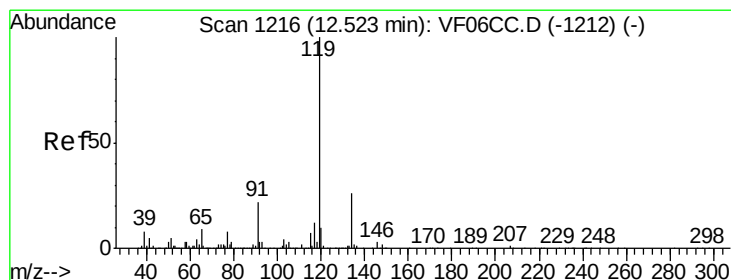
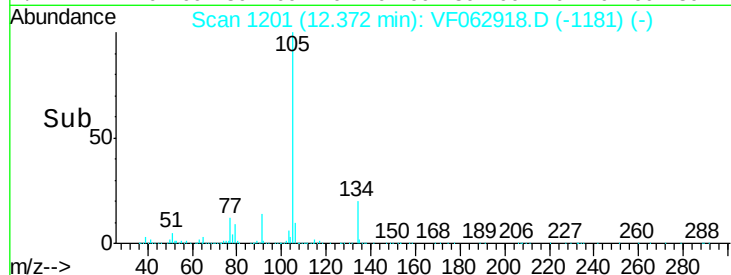
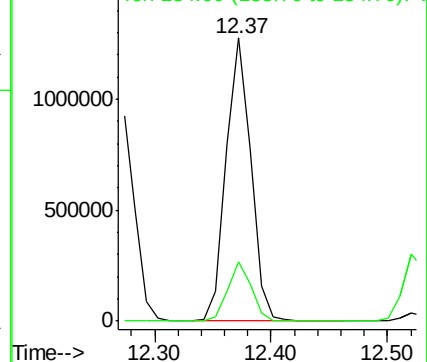
134 20.9 10.5 31.6

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 53.202 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

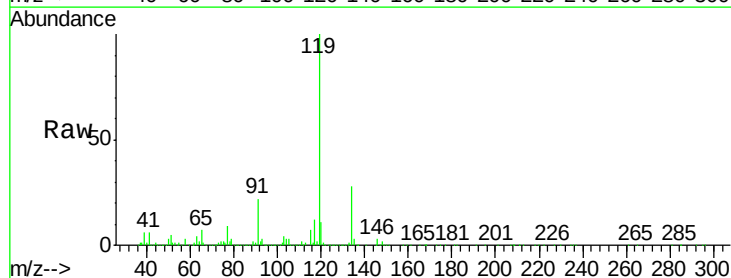
Tgt Ion:119 Resp: 1523064

Ion Ratio Lower Upper

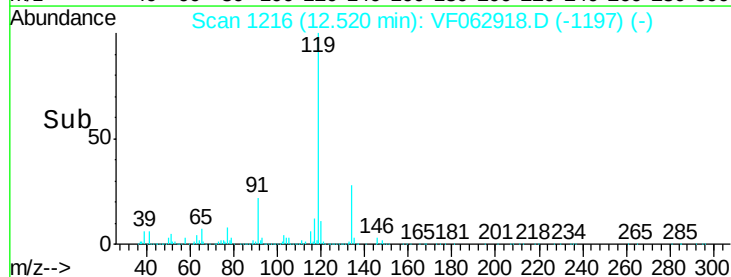
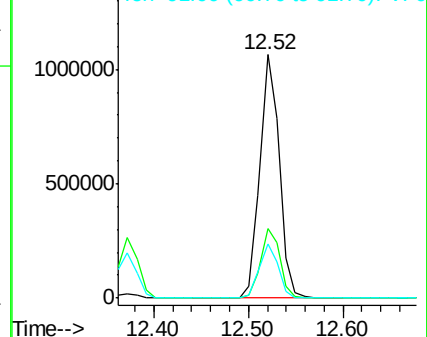
119 100

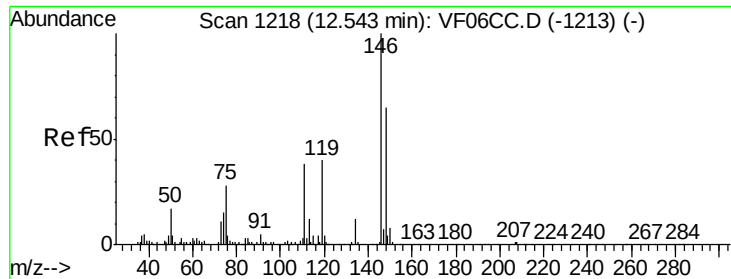
134 28.4 15.5 46.5

91 22.4 10.3 30.9



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): VF0





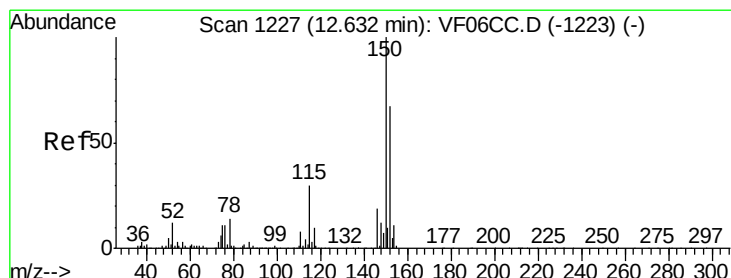
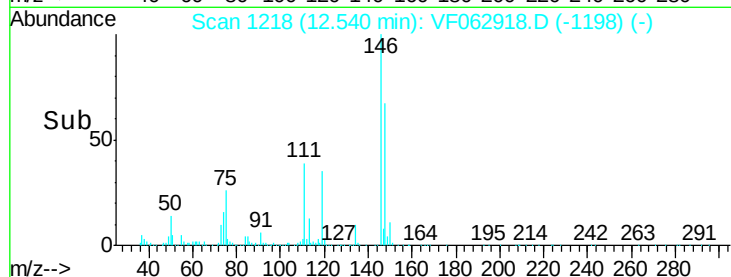
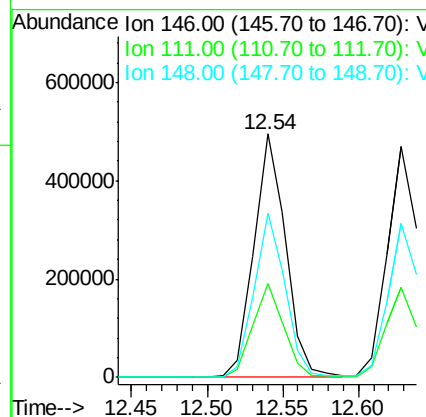
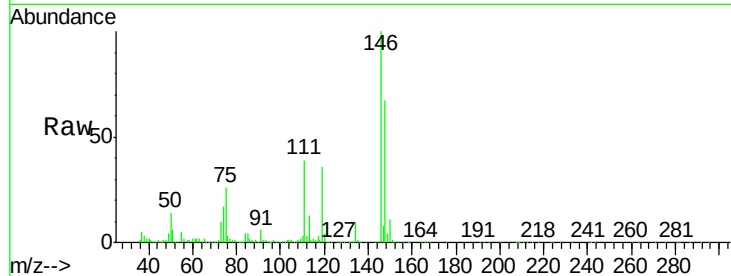
#87
 1,3-Dichlorobenzene
 Concen: 50.803 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.6	58.8
148	67.3	34.2	102.5

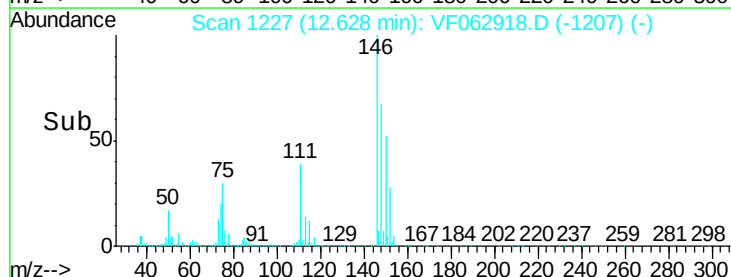
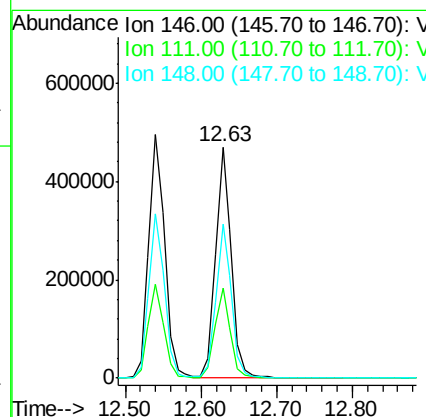
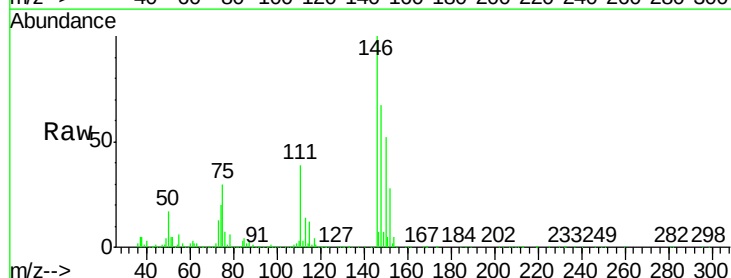
Manual Integrations
 APPROVED

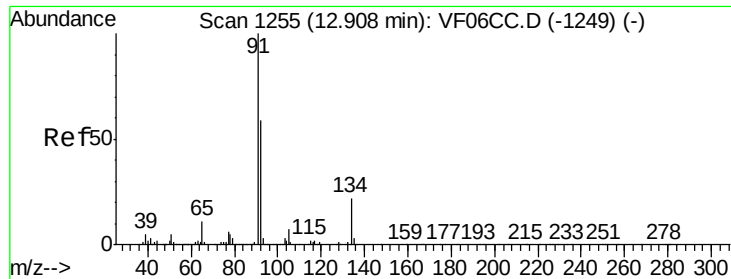
MMDadoda
 6/11/2019 2:54:57 PM



#88
 1,4-Dichlorobenzene
 Concen: 52.011 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	20.3	60.9
148	66.7	34.0	101.8





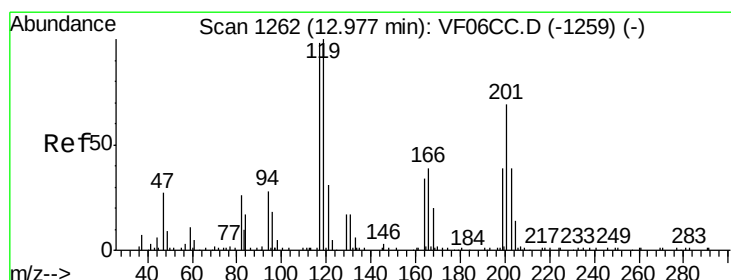
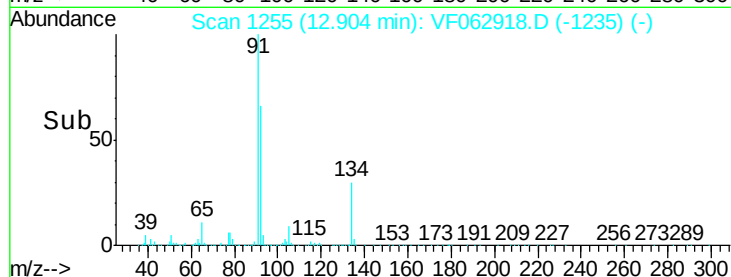
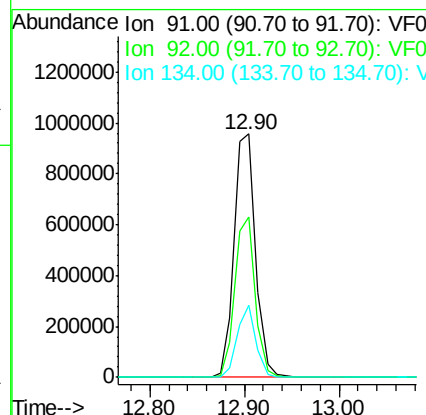
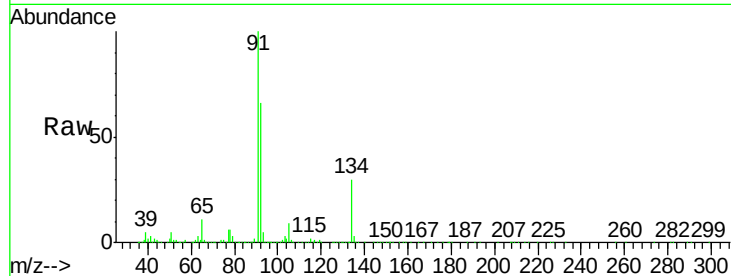
#89
n-Butylbenzene
Concen: 52.164 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. -0.01 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	65.8	34.2	102.6
134	29.6	15.8	47.3

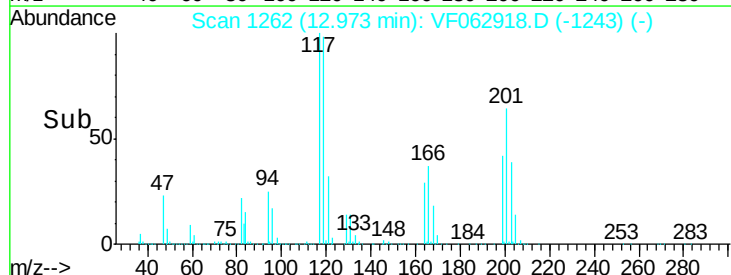
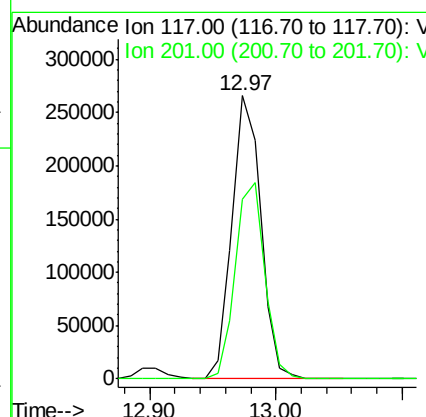
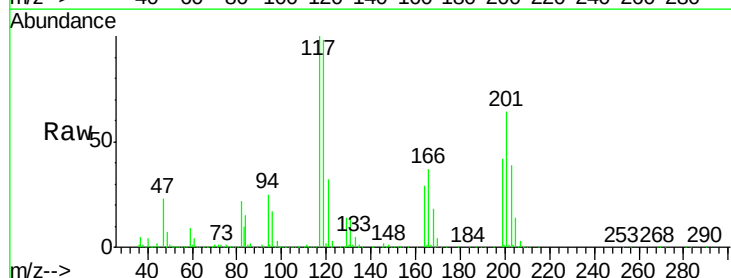
Manual Integrations
APPROVED

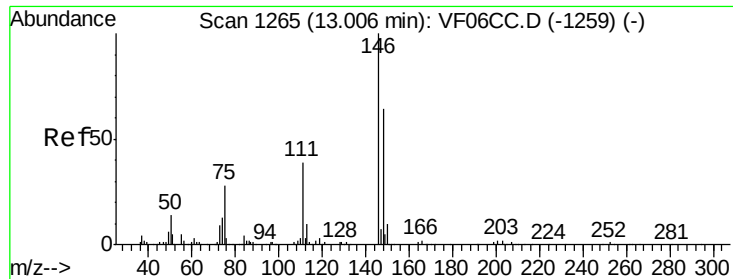
MMDadoda
6/11/2019 2:54:57 PM



#90
Hexachloroethane
Concen: 60.201 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. -0.02 min
Lab File: VF062918.D
Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
117	100		
201	63.6	38.9	116.7





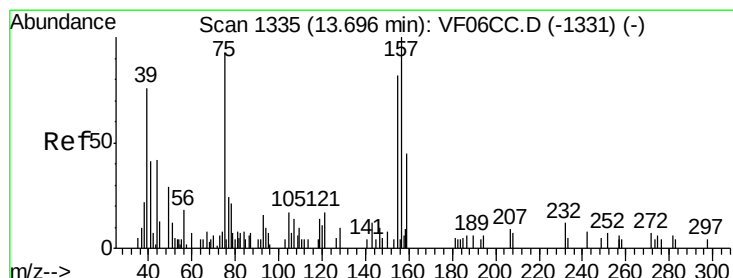
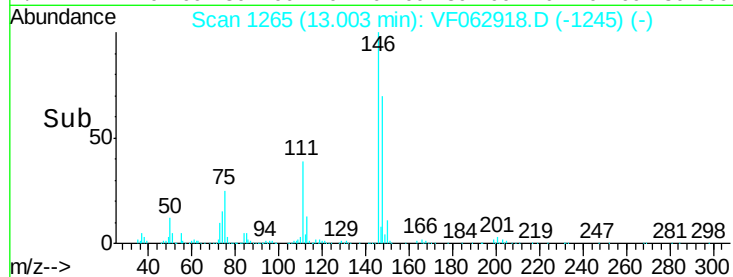
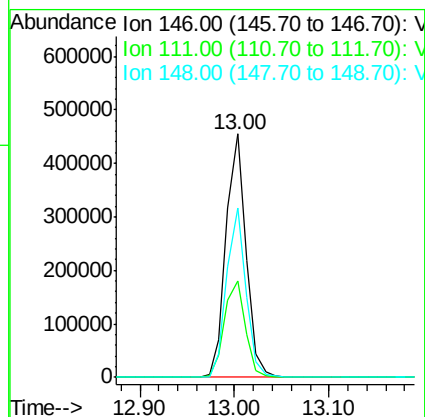
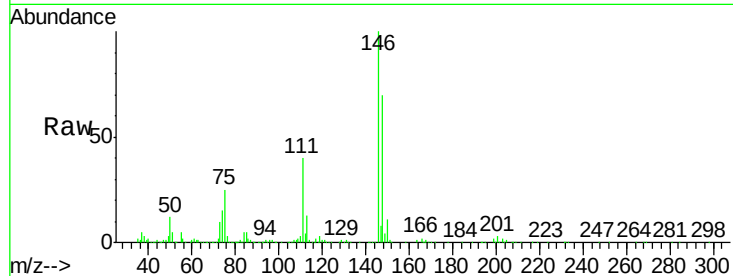
#91
 1,2-Dichlorobenzene
 Concen: 53.078 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.4	61.3
148	69.5	34.1	102.3

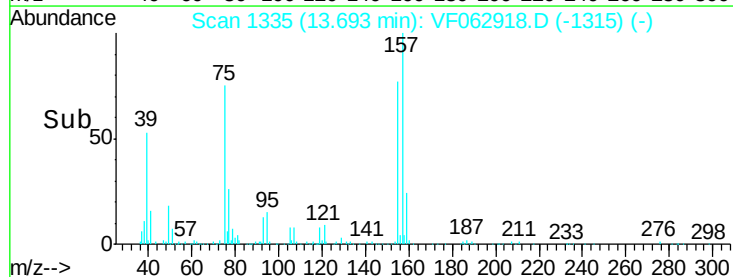
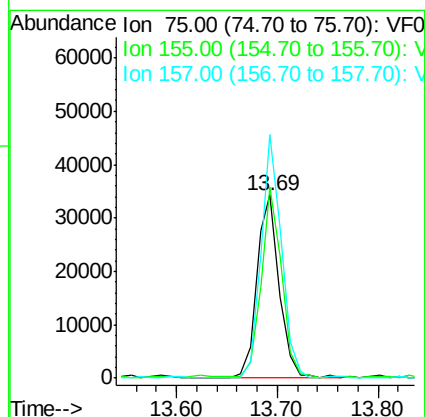
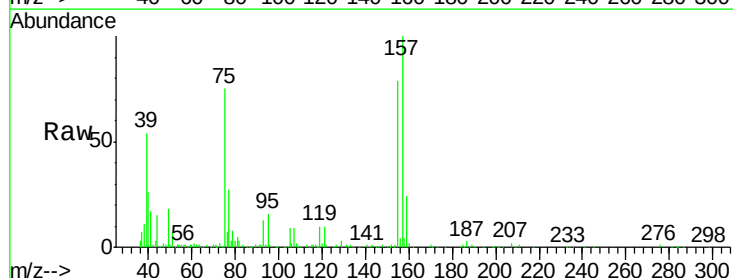
Manual Integrations
 APPROVED

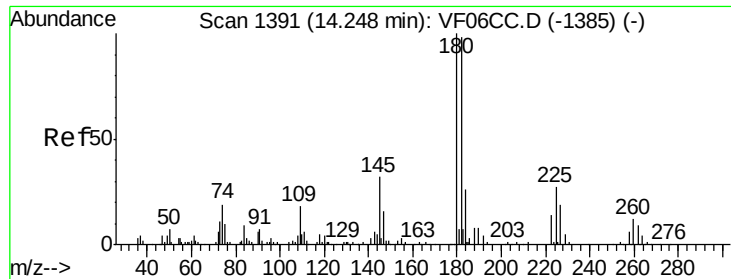
MMDadoda
 6/11/2019 2:54:57 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 71.223 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Lower	Upper
75	100		
155	104.4	51.7	155.1
157	132.9	66.8	200.6





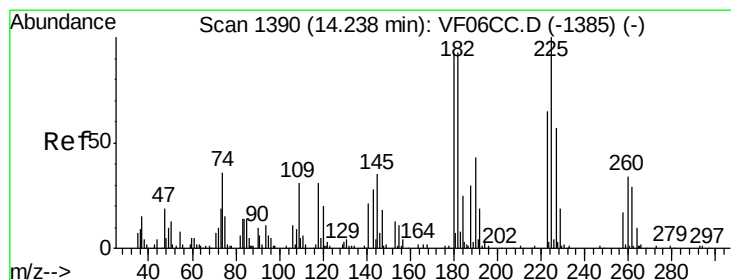
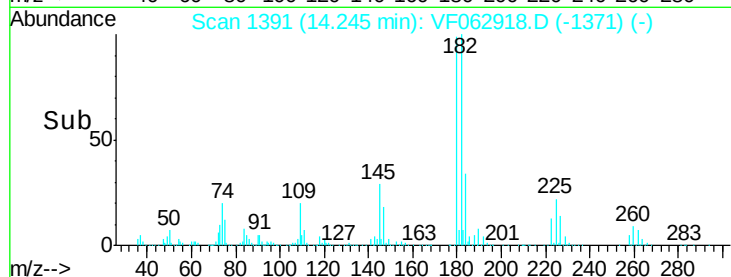
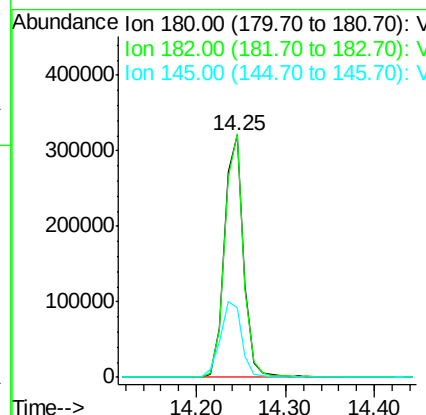
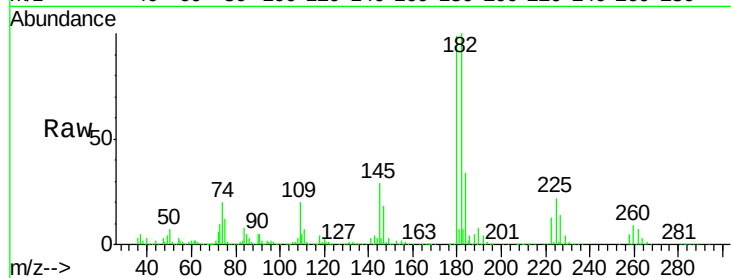
#93
 1,2,4-Trichlorobenzene
 Concen: 56.435 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	486134		
182	100.6	50.3	150.9	
145	28.7	15.4	46.2	

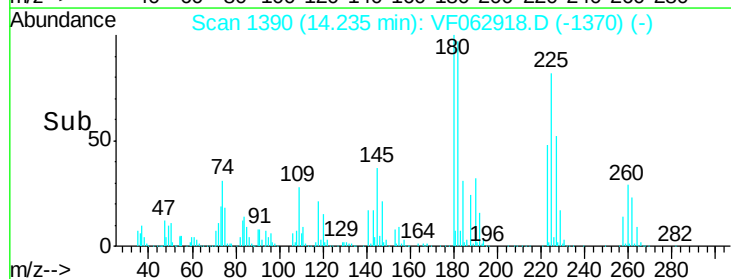
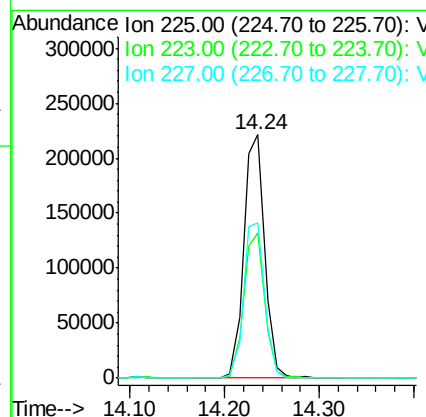
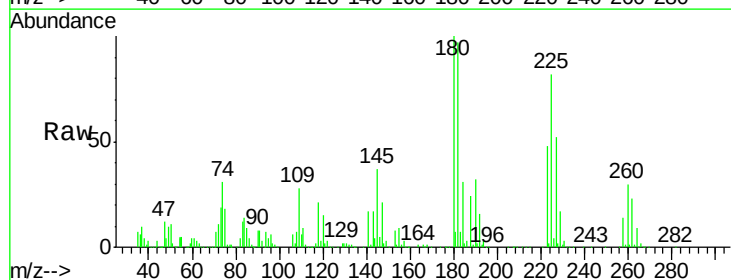
Manual Integrations
 APPROVED

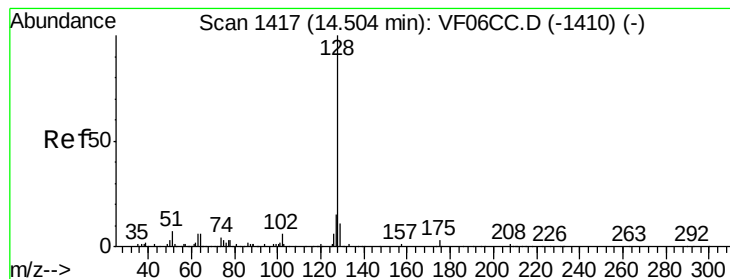
MMDadoda
 6/11/2019 2:54:57 PM



#94
 Hexachlorobutadiene
 Concen: 56.507 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. -0.01 min
 Lab File: VF062918.D
 Acq: 10 Jun 2019 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	336737		
223	59.4	30.8	92.4	
227	63.8	31.9	95.5	





#95

Naphthalene

Concen: 63.329 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Instrument :

MSVOA_F

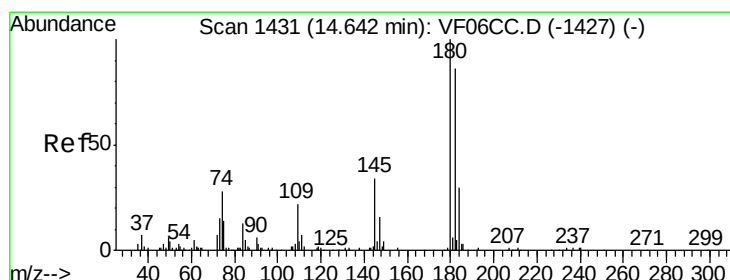
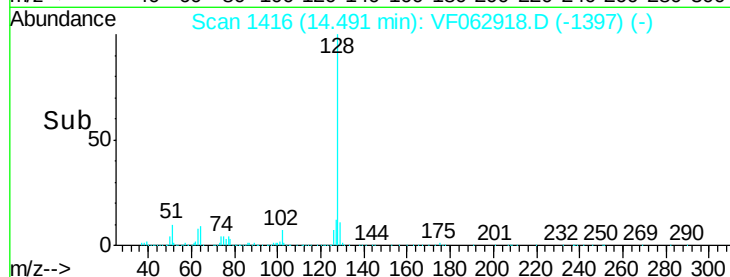
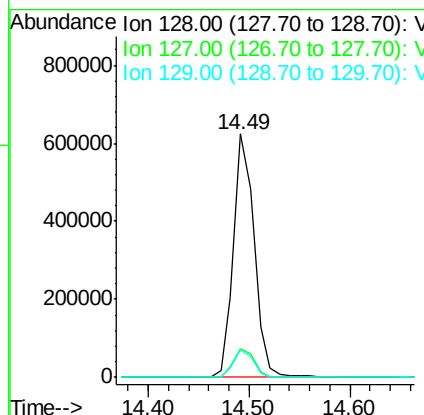
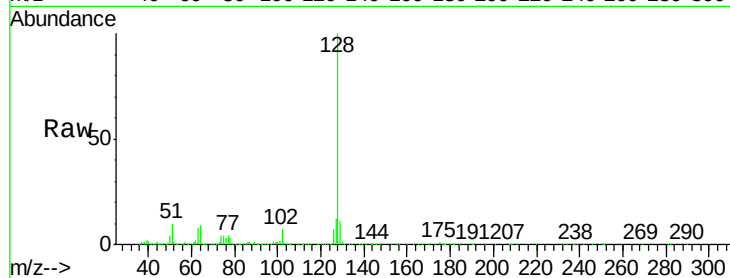
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	893719
Ion Ratio	Lower	Upper	
128	100		
127	11.8	9.7	14.5
129	11.1	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
6/11/2019 2:54:57 PM



#96

1,2,3-Trichlorobenzene

Concen: 59.327 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VF062918.D

Acq: 10 Jun 2019 20:45

Tgt Ion:	180	Resp:	466497
Ion Ratio	Lower	Upper	
180	100		
182	98.2	48.6	145.9
145	29.0	15.7	47.0

