

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022819\
 Data File : VF061785.D
 Acq On : 28 Feb 2019 12:20
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/2/2019 4:09:35 AM

Quant Time: Mar 01 00:26:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	313735	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	456398	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	381629	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	213387	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	119848	52.09	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	104.18%	
35) Dibromofluoromethane	4.10	113	176860	52.18	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	104.36%	
50) Toluene-d8	7.54	98	522668	53.64	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	107.28%	
62) 4-Bromofluorobenzene	11.39	95	194504	49.34	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	98.68%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	164745	45.726	ug/l	99
3) Chloromethane	1.09	50	175369	46.391	ug/l	96
4) Vinyl Chloride	1.15	62	172822	49.178	ug/l	94
5) Bromomethane	1.32	94	119234	49.298	ug/l	96
6) Chloroethane	1.40	64	85478	49.357	ug/l	96
7) Trichlorofluoromethane	1.48	101	220221m	51.956	ug/l	
8) Diethyl Ether	1.62	74	48854	45.736	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.84	101	151935	49.689	ug/l	93
10) Methyl Iodide	1.91	142	276533m	47.344	ug/l	
11) Tert butyl alcohol	2.57	59	31424	236.008	ug/l	98
12) 1,1-Dichloroethene	1.79	96	138002	51.332	ug/l	96
13) Acrolein	2.00	56	41734	249.391	ug/l	96
14) Allyl chloride	2.09	41	162046	49.121	ug/l	98
15) Acrylonitrile	2.93	53	106620	225.756	ug/l	96
16) Acetone	2.23	43	131567	266.535	ug/l	89
17) Carbon Disulfide	1.82	76	380316m	45.005	ug/l	
18) Methyl Acetate	2.34	43	57001	51.260	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	226822	49.367	ug/l	95
20) Methylene Chloride	2.17	84	144049m	54.696	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	136194m	46.602	ug/l	
22) Diisopropyl ether	2.79	45	376062	47.489	ug/l	97
23) Vinyl Acetate	3.17	43	877452	226.860	ug/l	96
24) 1,1-Dichloroethane	2.87	63	243869	50.888	ug/l	99
25) 2-Butanone	4.31	43	265414	246.159	ug/l	99
26) 2,2-Dichloropropane	3.59	77	111587	54.972	ug/l	97
27) cis-1,2-Dichloroethene	3.47	96	187056	48.763	ug/l	97
28) Bromochloromethane	3.70	49	126756	55.126	ug/l	98
29) Tetrahydrofuran	4.06	42	109016	222.454	ug/l	97
30) Chloroform	3.84	83	277574	50.932	ug/l	96
31) Cyclohexane	3.67	56	242592m	46.762	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	191090	53.526	ug/l	93
36) 1,1-Dichloropropene	4.27	75	233666	51.683	ug/l	94
37) Ethyl Acetate	4.09	43	90073	42.892	ug/l #	59
38) Carbon Tetrachloride	3.98	117	164858	52.807	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	286239	53.532	ug/l	98
40) Benzene	4.62	78	600694	50.795	ug/l	98
41) Methacrylonitrile	4.73	41	51450	47.908	ug/l	95
42) 1,2-Dichloroethane	4.93	62	144985	51.253	ug/l	95
43) Isopropyl Acetate	6.95	43	109565	44.078	ug/l #	91
44) Trichloroethene	5.49	130	198150	51.814	ug/l	97
45) 1,2-Dichloropropane	6.22	63	144830	50.666	ug/l	99
46) Dibromomethane	6.07	93	88300	50.170	ug/l	92
47) Bromodichloromethane	6.37	83	195452	50.711	ug/l	95
48) Methyl methacrylate	6.70	41	70040	46.822	ug/l	98
49) 1,4-Dioxane	6.69	88	15426	1096.999	ug/l #	86
51) 4-Methyl-2-Pentanone	8.24	43	391196	220.253	ug/l	100
52) Toluene	7.61	92	351470	49.004	ug/l	94
53) t-1,3-Dichloropropene	8.26	75	158018	49.262	ug/l	96
54) cis-1,3-Dichloropropene	7.28	75	223752	52.368	ug/l	94
55) 1,1,2-Trichloroethane	8.48	97	105891	50.250	ug/l	94
56) Ethyl methacrylate	8.60	69	112716	48.043	ug/l	99
57) 1,3-Dichloropropane	8.84	76	162973	46.335	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.28	63	97187	240.090	ug/l	95
59) 2-Hexanone	9.47	43	288508	231.731	ug/l	97
60) Dibromochloromethane	8.70	129	149309	50.906	ug/l	98
61) 1,2-Dibromoethane	8.97	107	116903	51.148	ug/l	95
64) Tetrachloroethene	8.14	164	162727	52.166	ug/l	96
65) Chlorobenzene	9.79	112	397391	51.315	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.92	131	164150	54.094	ug/l	99
67) Ethyl Benzene	9.89	91	682753	53.015	ug/l	97
68) m/p-Xylenes	10.11	106	501730	101.797	ug/l	100
69) o-Xylene	10.69	106	277495	52.763	ug/l	93
70) Styrene	10.77	104	368598	49.542	ug/l	99
71) Bromoform	10.76	173	82910	50.315	ug/l	97
73) Isopropylbenzene	11.11	105	784182	51.615	ug/l	99
74) N-amyl acetate	11.37	43	179480	49.218	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.68	83	128731	47.296	ug/l	97
76) 1,2,3-Trichloropropane	11.78	75	84375	45.595	ug/l	100
77) Bromobenzene	11.48	156	184821	49.242	ug/l	95
78) n-propylbenzene	11.58	91	894429	51.303	ug/l	99
79) 2-Chlorotoluene	11.71	91	495960	50.795	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	622790	51.290	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	42808m	48.252	ug/l	
82) 4-Chlorotoluene	11.89	91	496899	49.031	ug/l	97
83) tert-Butylbenzene	12.12	119	685138	50.942	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	630890	52.297	ug/l	99
85) sec-Butylbenzene	12.29	105	896418	51.542	ug/l	98
86) p-Isopropyltoluene	12.45	119	753266	51.607	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	352978	48.240	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	362199	51.471	ug/l	97
89) n-Butylbenzene	12.83	91	703318	51.028	ug/l	95
90) Hexachloroethane	12.90	117	189566	55.842	ug/l	86
91) 1,2-Dichlorobenzene	12.93	146	337989	48.564	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	19673	45.588	ug/l #	53

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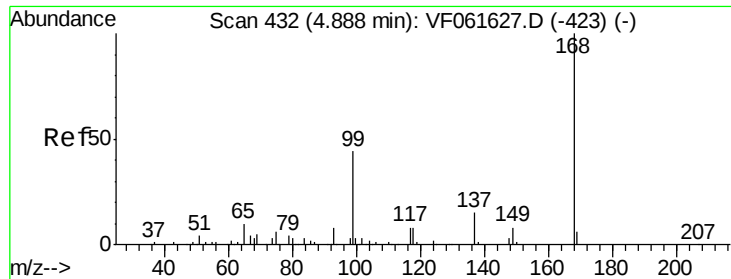
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	247557	49.625	ug/l	98
94) Hexachlorobutadiene	14.19	225	166864	54.160	ug/l	100
95) Naphthalene	14.44	128	448467	51.382	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	237741	51.923	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

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Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 313735

Ion Ratio Lower Upper

168 100

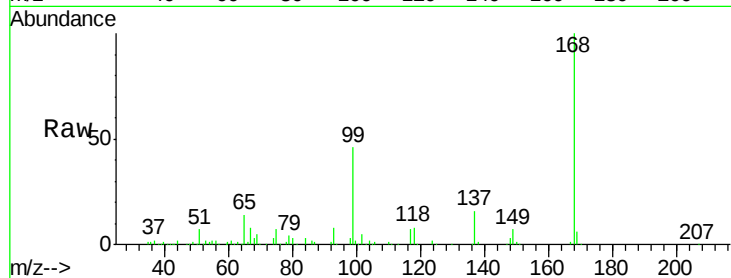
99 46.1 34.9 52.3

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

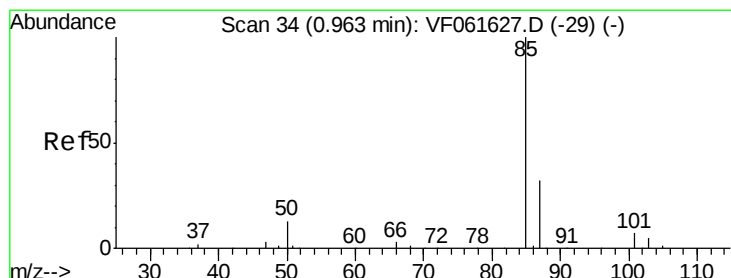
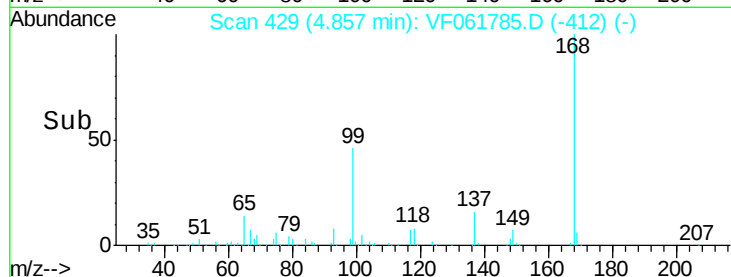
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.726 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061785.D

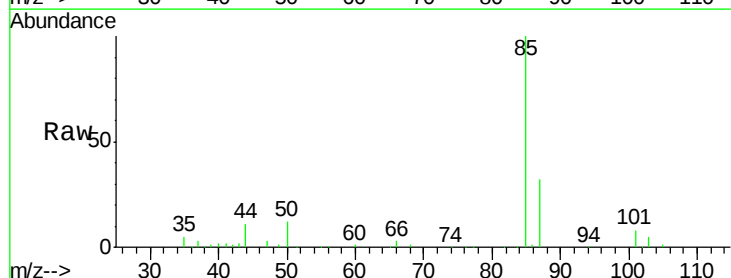
Acq: 28 Feb 2019 12:20

Tgt Ion: 85 Resp: 164745

Ion Ratio Lower Upper

85 100

87 32.4 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

50000

40000

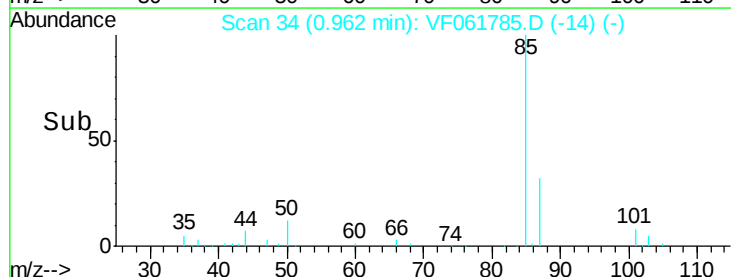
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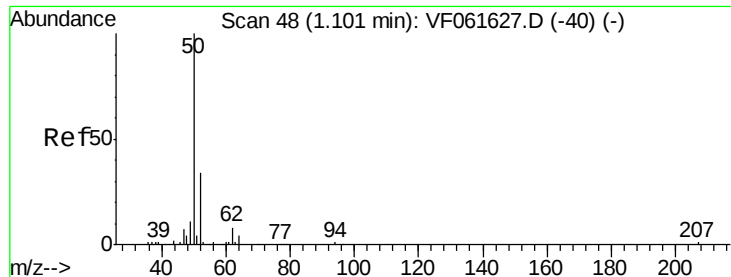
20000

10000

0

Time-->





#3

Chloromethane

Concen: 46.391 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 175369

Ion Ratio Lower Upper

50 100

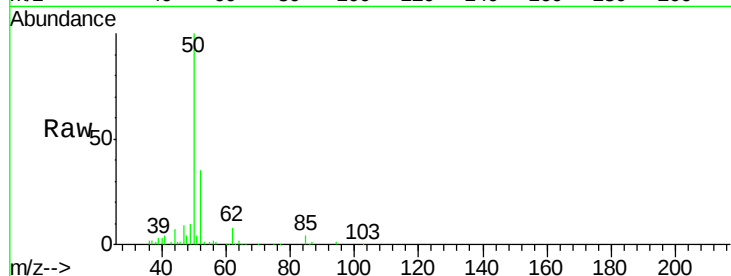
52 35.3 26.2 39.4

Manual Integrations

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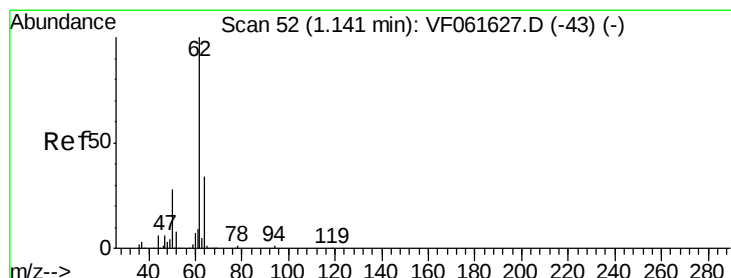
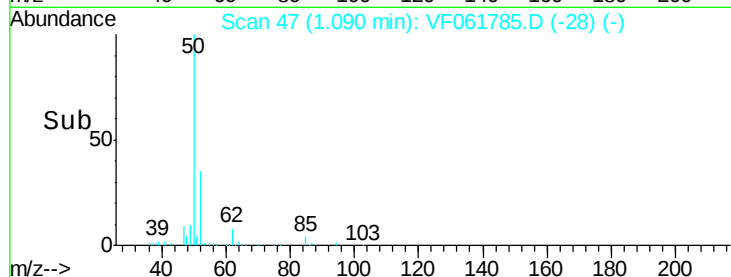
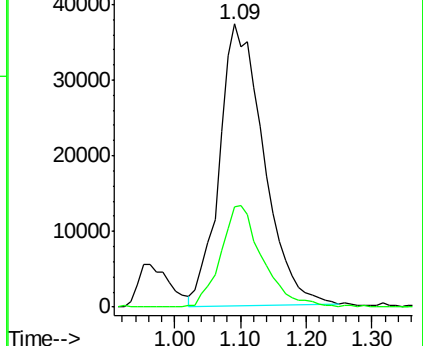
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 49.178 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.01 min

Lab File: VF061785.D

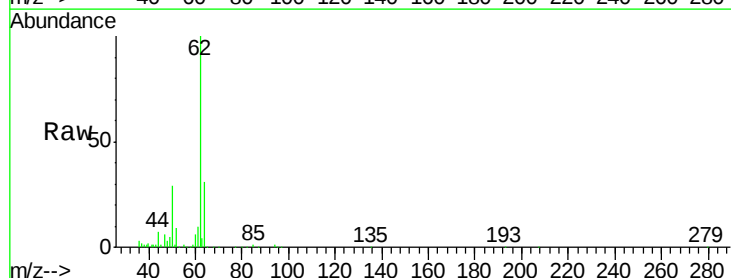
Acq: 28 Feb 2019 12:20

Tgt Ion: 62 Resp: 172822

Ion Ratio Lower Upper

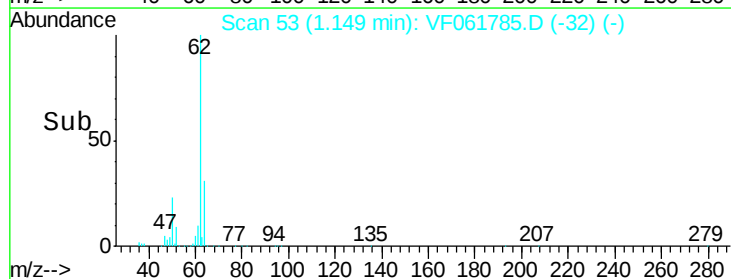
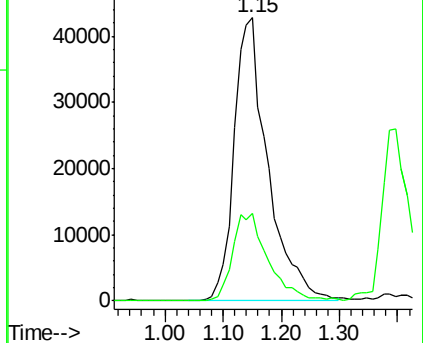
62 100

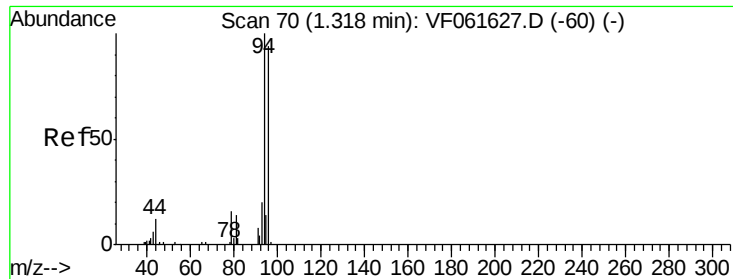
64 30.9 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 49.298 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

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Acq: 28 Feb 2019 12:20

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ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 119234

Ion Ratio Lower Upper

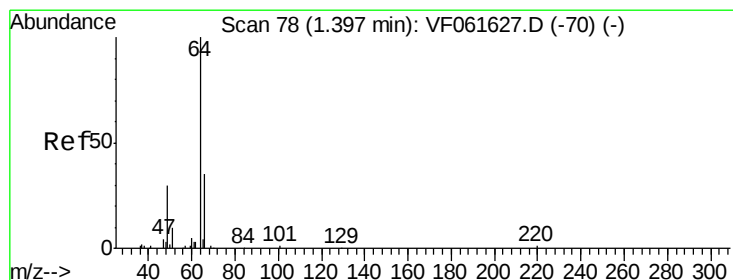
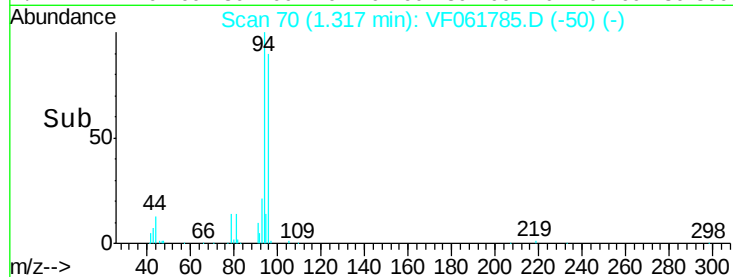
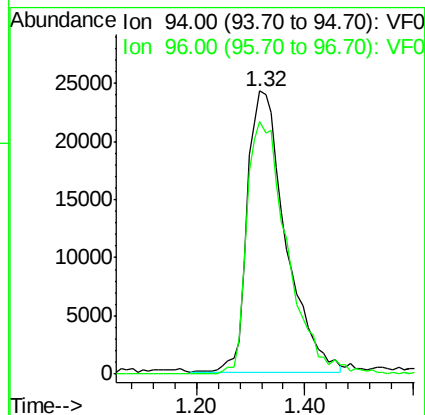
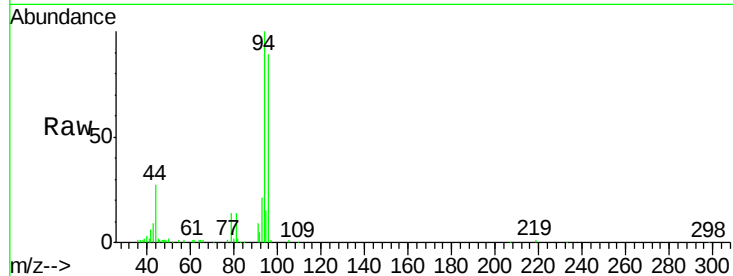
94 100

96 89.0 74.6 112.0

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#6

Chloroethane

Concen: 49.357 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061785.D

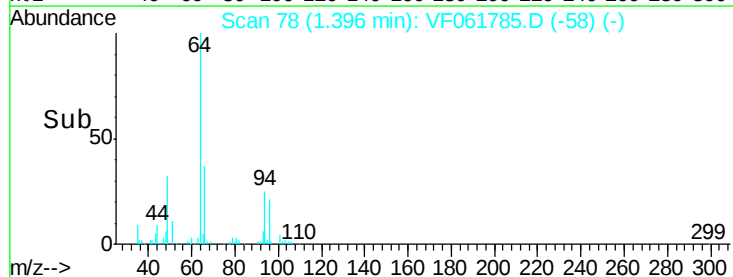
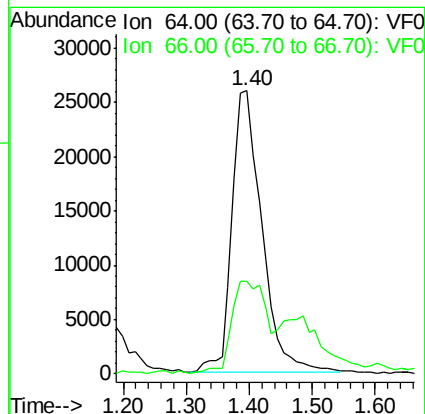
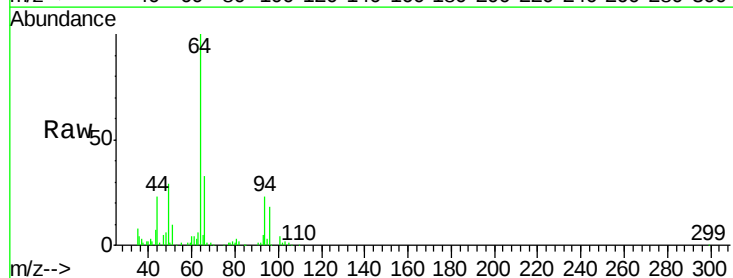
Acq: 28 Feb 2019 12:20

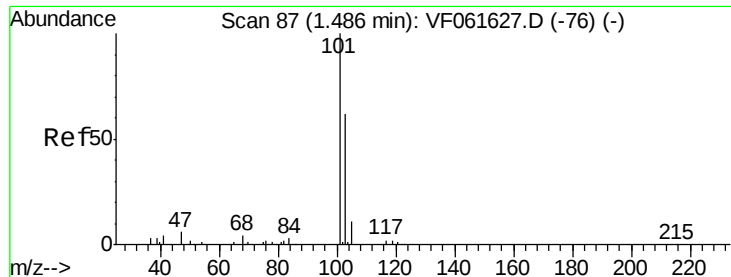
Tgt Ion: 64 Resp: 85478

Ion Ratio Lower Upper

64 100

66 32.8 27.9 41.9





#7

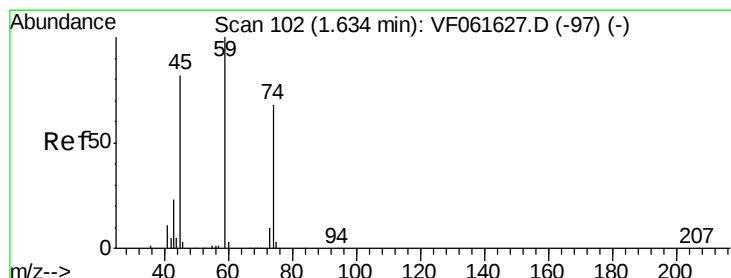
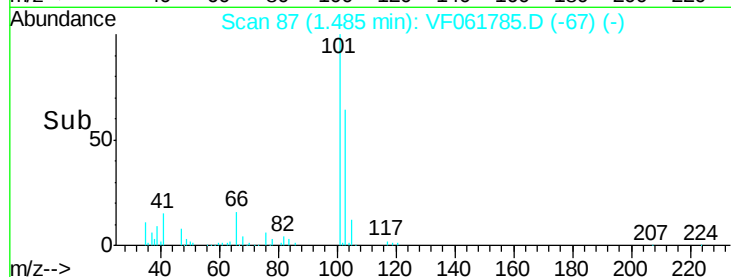
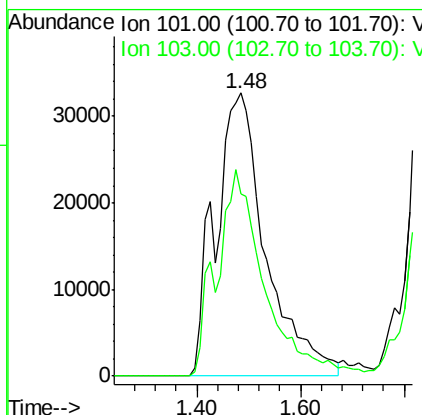
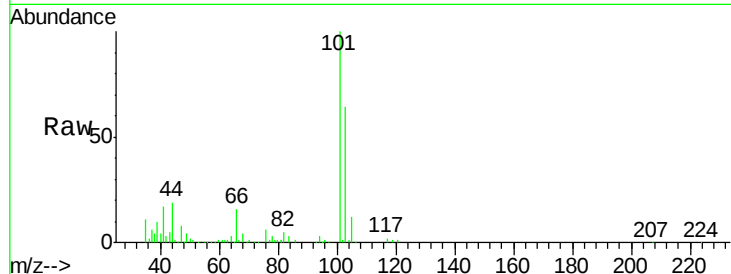
Trichlorofluoromethane
Concen: 51.956 ug/l m
RT: 1.48 min Scan# 87
Delta R.T. -0.00 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	220221		
103	64.4	49.3	73.9	

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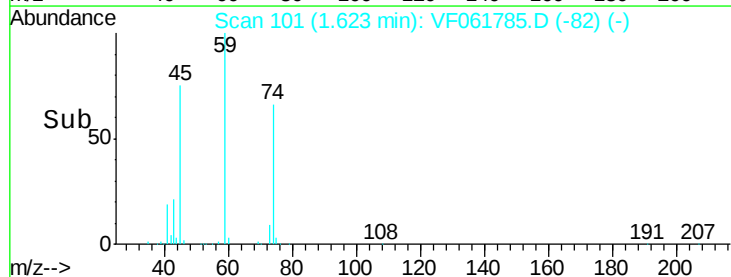
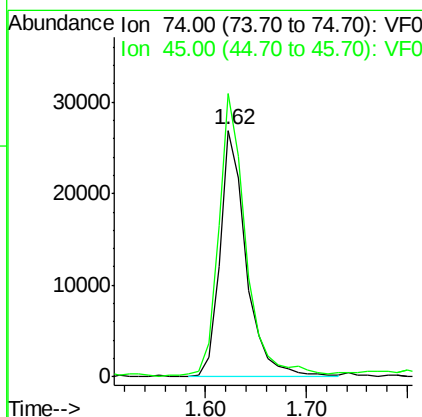
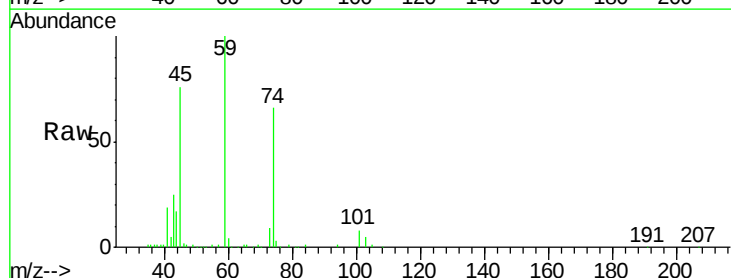
MMDadoda
3/2/2019 4:09:35 AM

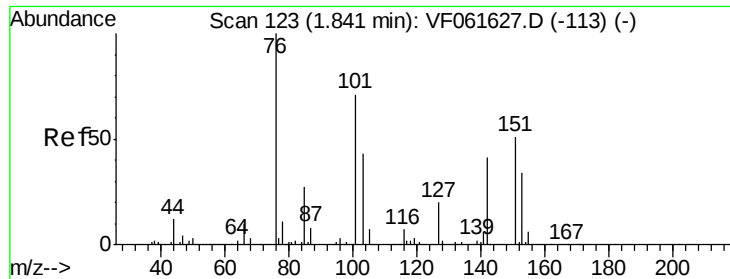


#8

Diethyl Ether
Concen: 45.736 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	48854		
45	114.7	60.8	182.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.689 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

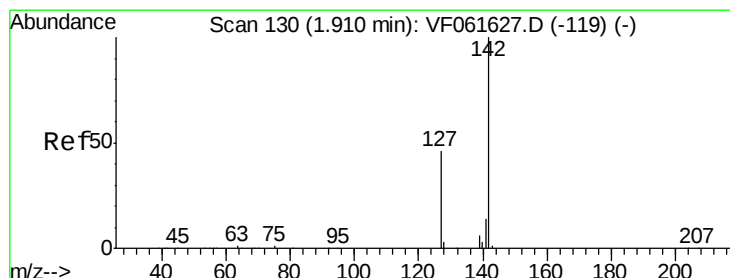
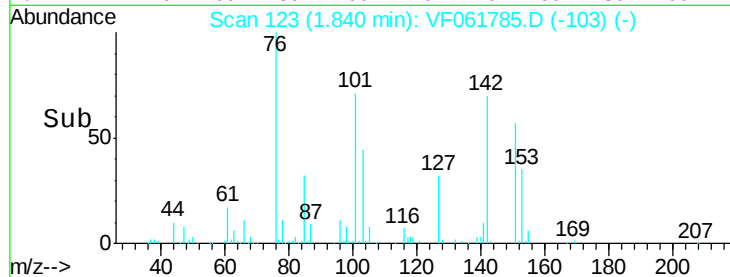
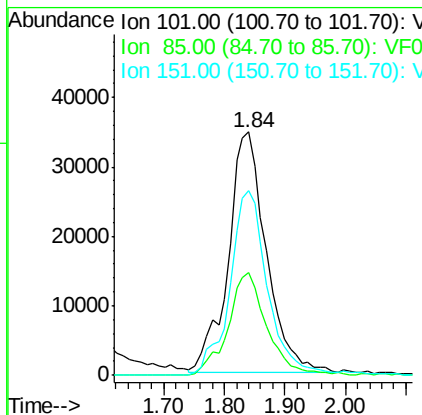
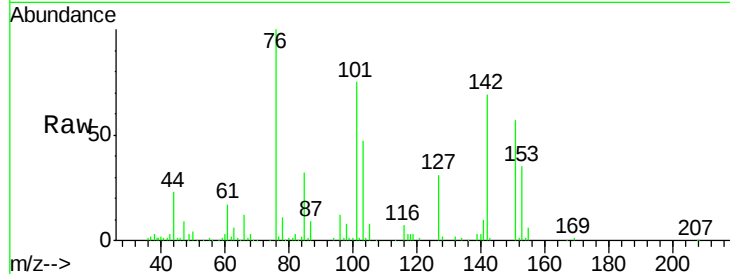
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	151935
Ion Ratio	Lower	Upper	
101	100		
85	42.2	29.8	44.6
151	75.7	56.3	84.5

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#10

Methyl Iodide

Concen: 47.344 ug/l m

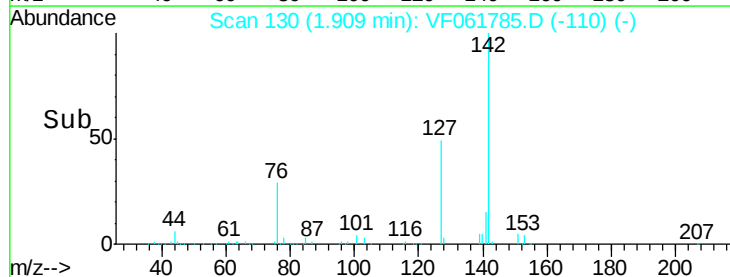
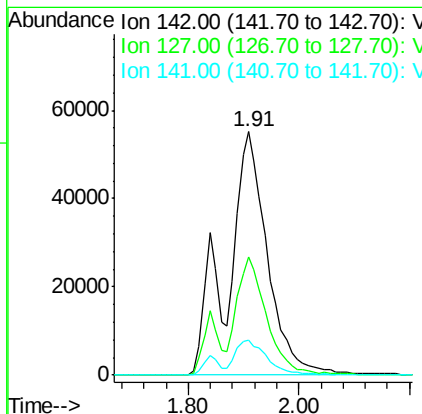
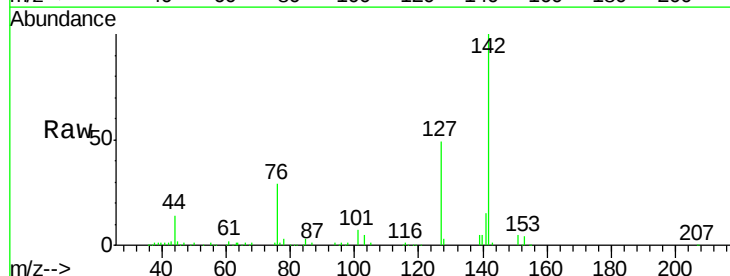
RT: 1.91 min Scan# 130

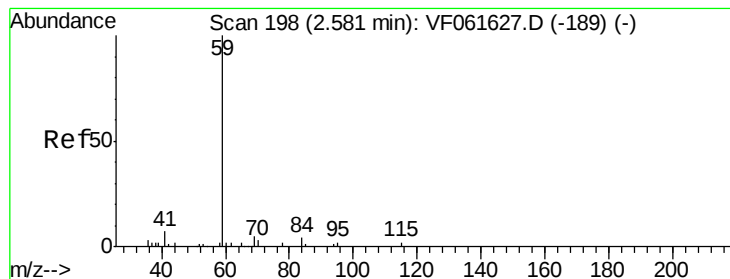
Delta R.T. -0.00 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion:	142	Resp:	276533
Ion Ratio	Lower	Upper	
142	100		
127	48.6	36.6	55.0
141	14.5	11.0	16.6





#11

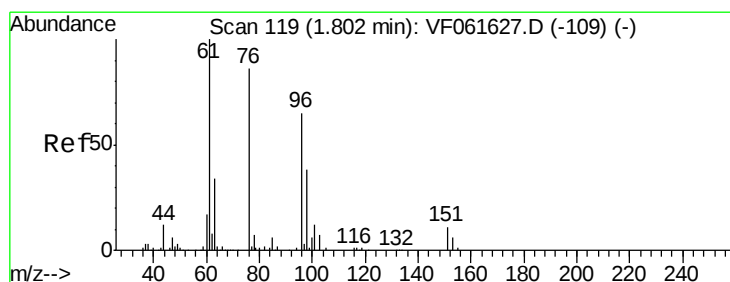
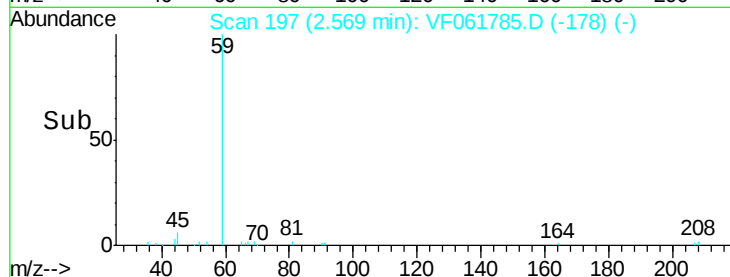
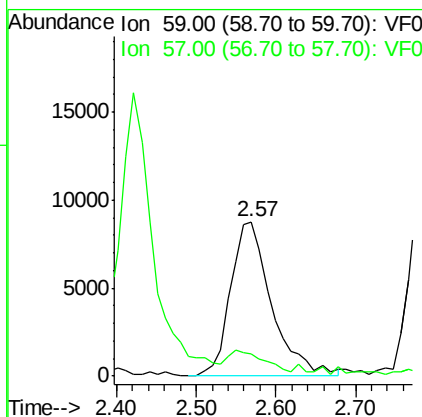
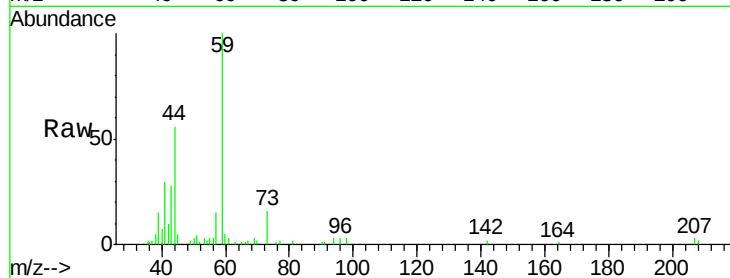
Tert butyl alcohol
Concen: 236.008 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 31424
Ion Ratio Lower Upper
59 100
57 14.6 12.5 18.7

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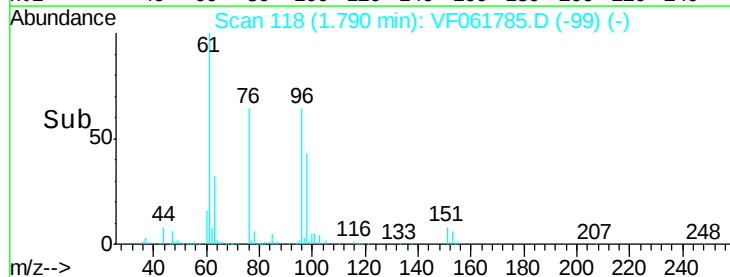
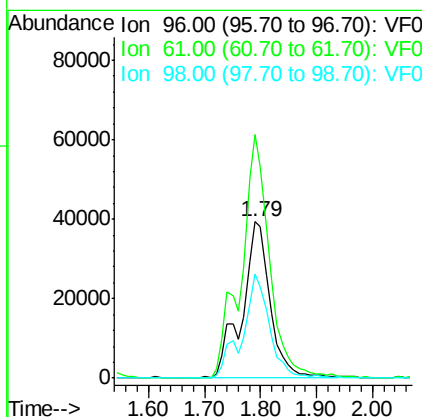
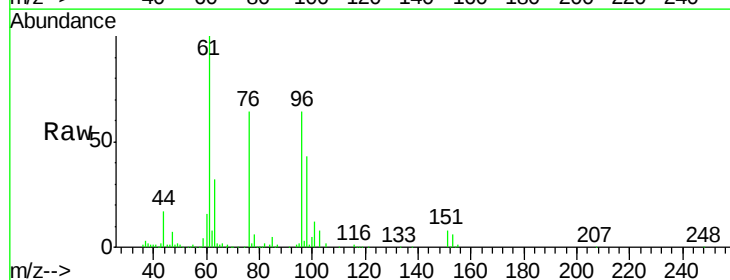
MMDadoda
3/2/2019 4:09:35 AM

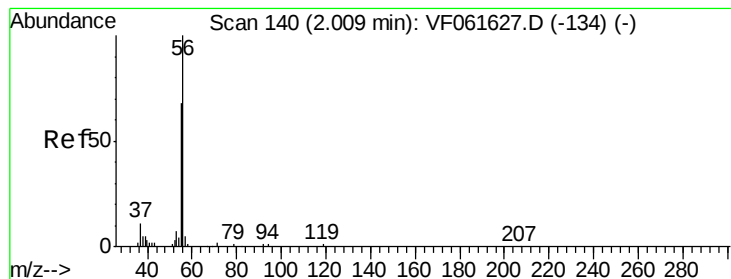


#12

1,1-Dichloroethene
Concen: 51.332 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion: 96 Resp: 138002
Ion Ratio Lower Upper
96 100
61 155.5 122.6 184.0
98 66.1 47.2 70.8





#13

Acrolein

Concen: 249.391 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 41734

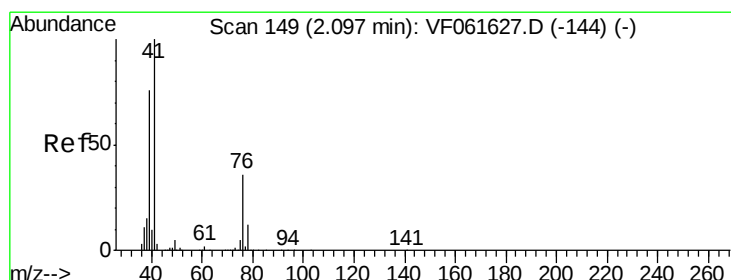
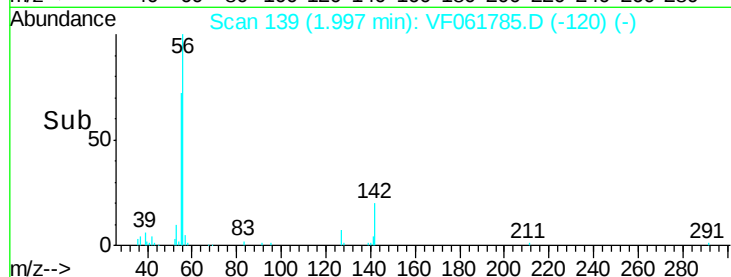
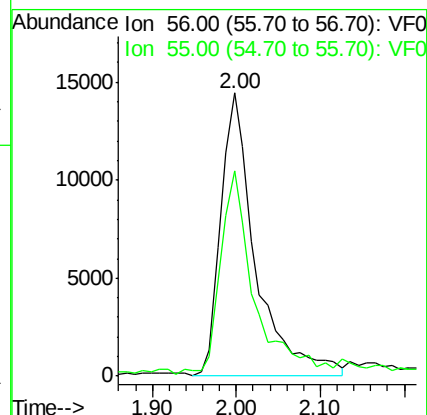
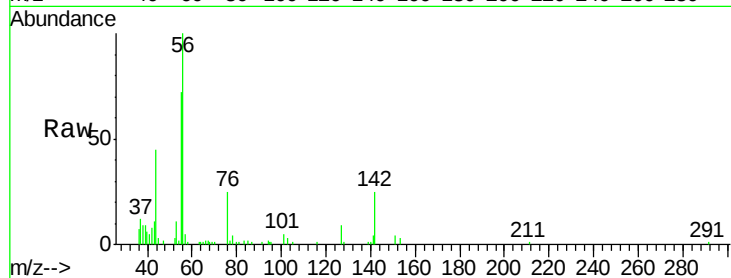
Ion Ratio Lower Upper

56 100

55 72.4 55.0 82.6

Manual Integrations
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3/2/2019 4:09:35 AM



#14

Allyl chloride

Concen: 49.121 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

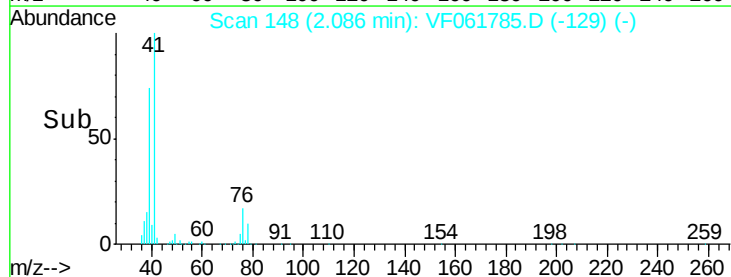
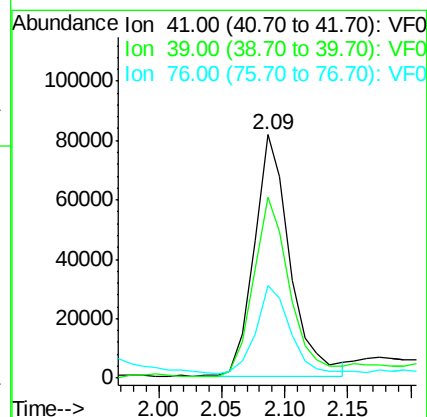
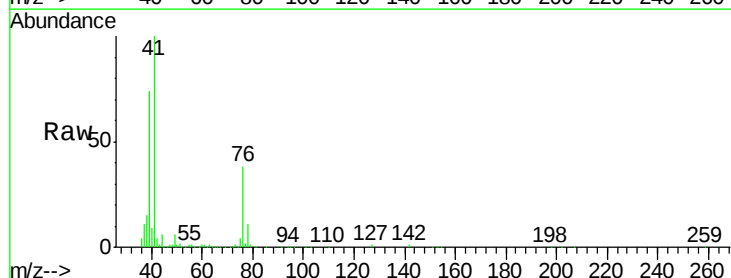
Tgt Ion: 41 Resp: 162046

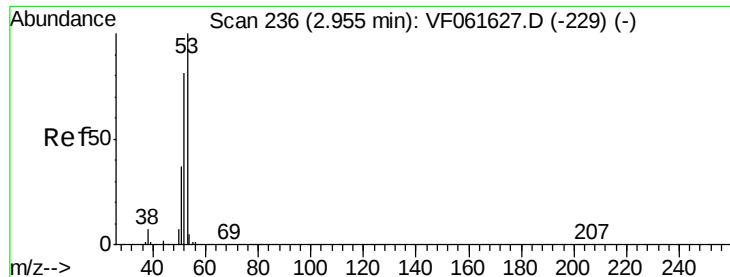
Ion Ratio Lower Upper

41 100

39 74.3 61.6 92.4

76 38.2 30.3 45.5





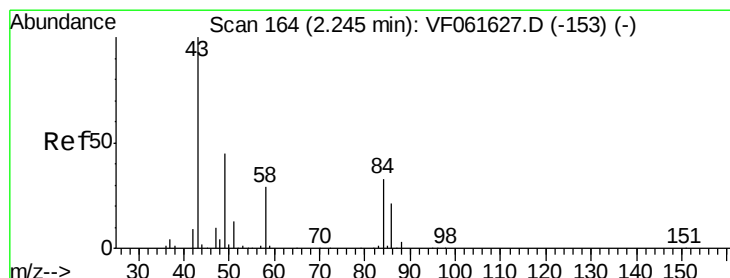
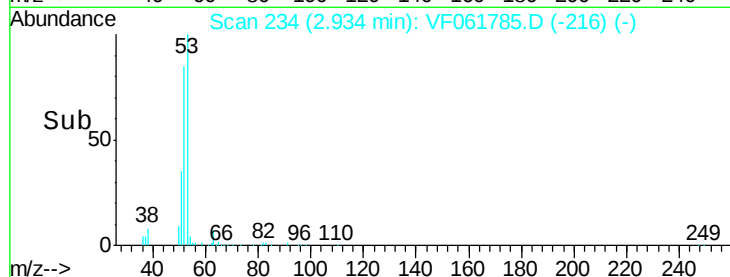
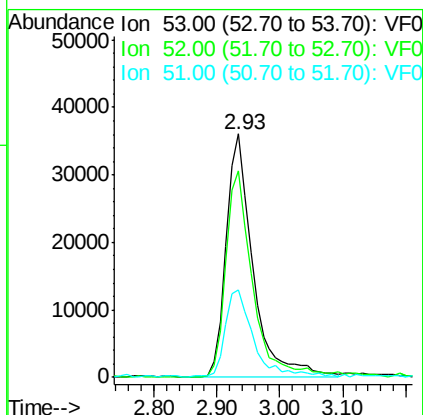
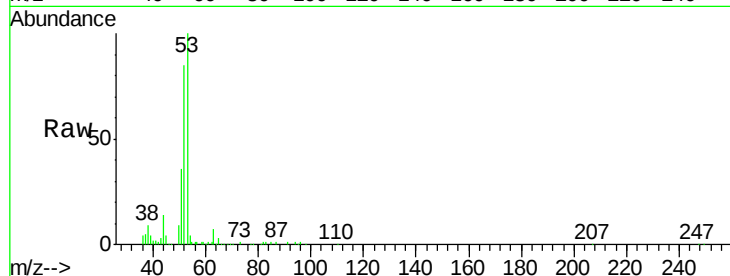
#15
 Acrylonitrile
 Concen: 225.756 ug/l
 RT: 2.93 min Scan# 234
 Delta R.T. -0.02 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	84.7	64.6	97.0
51	35.8	29.8	44.8

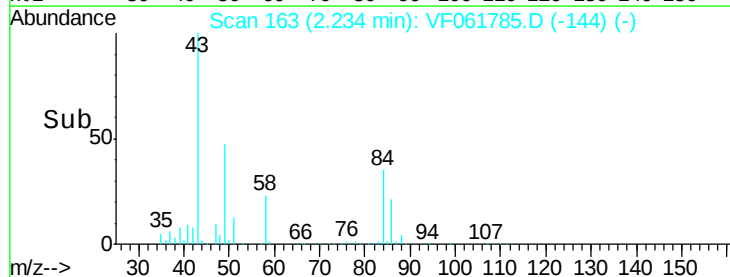
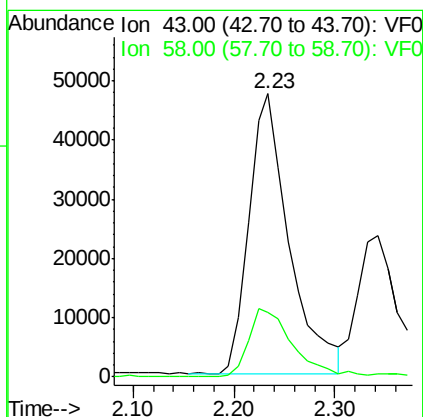
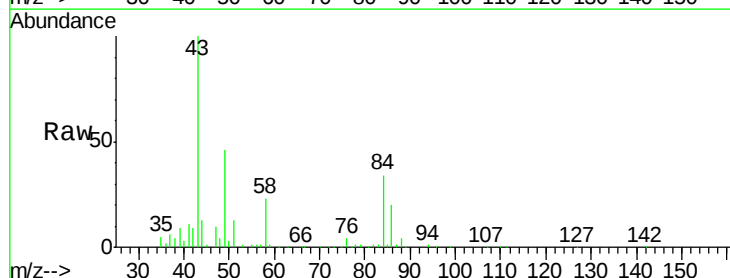
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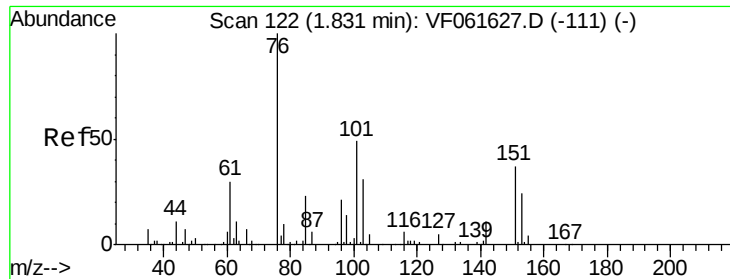
MMDadoda
 3/2/2019 4:09:35 AM



#16
 Acetone
 Concen: 266.535 ug/l
 RT: 2.23 min Scan# 163
 Delta R.T. -0.01 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.0	22.9	34.3





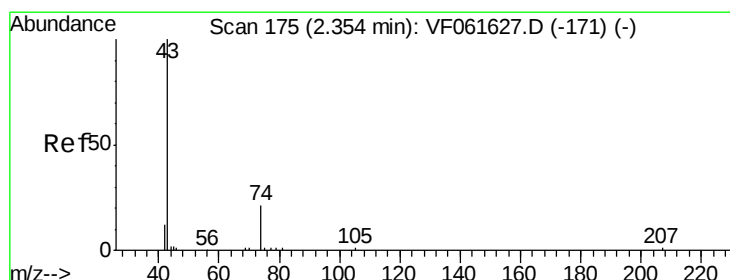
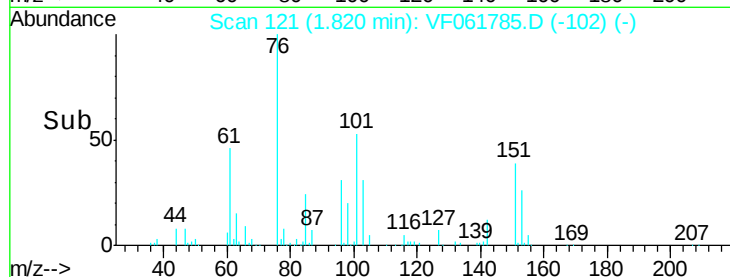
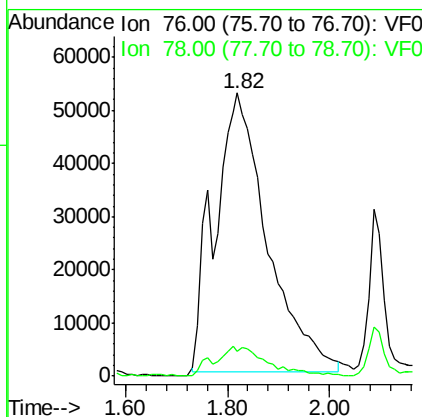
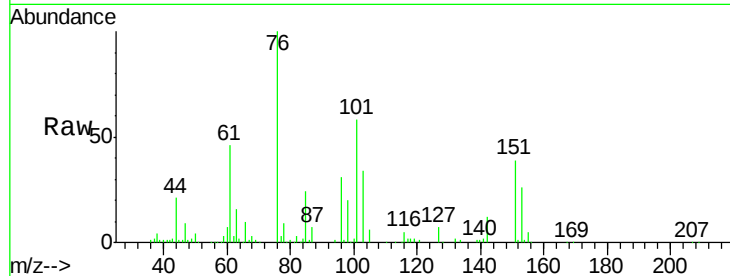
#17
Carbon Disulfide
Concen: 45.005 ug/l m
RT: 1.82 min Scan# 121
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.9	11.9

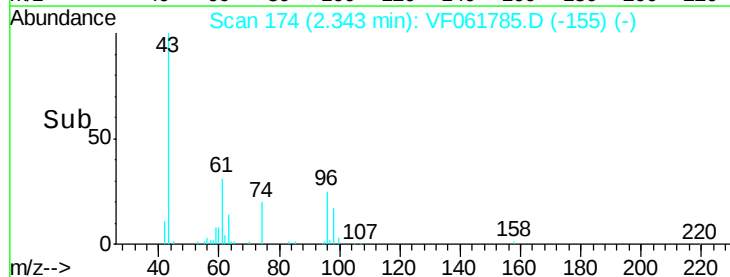
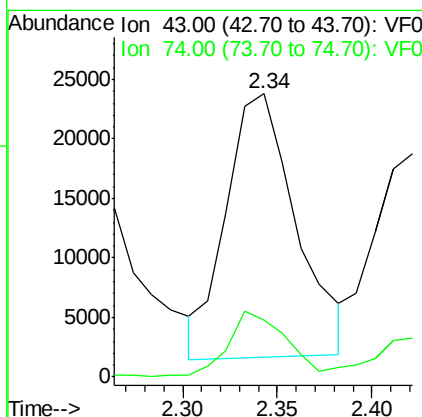
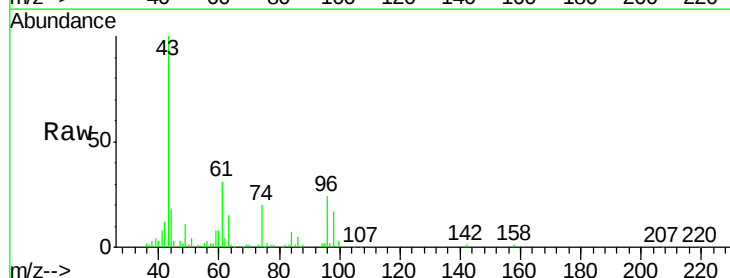
Manual Integrations
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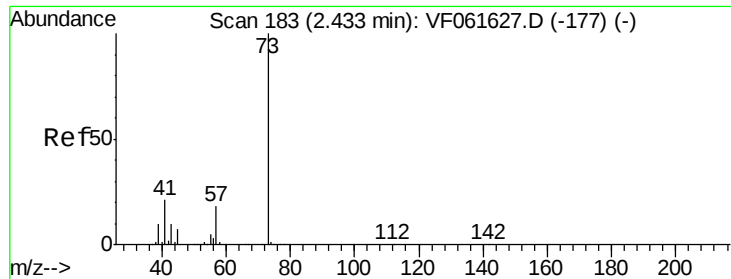
MMDadoda
3/2/2019 4:09:35 AM



#18
Methyl Acetate
Concen: 51.260 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.1	14.6	21.8





#19

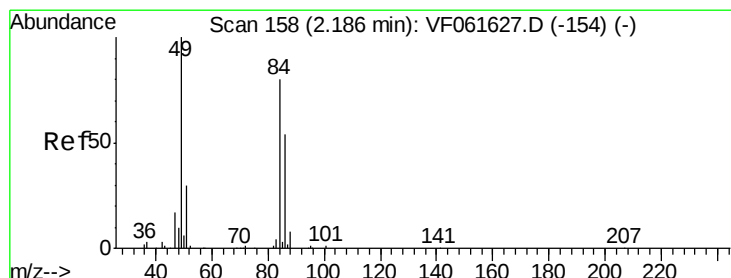
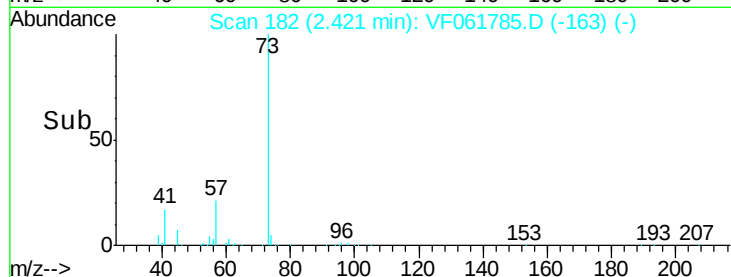
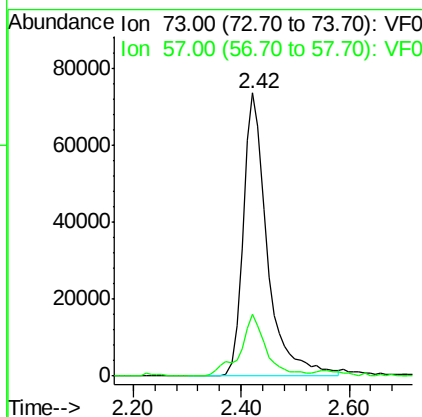
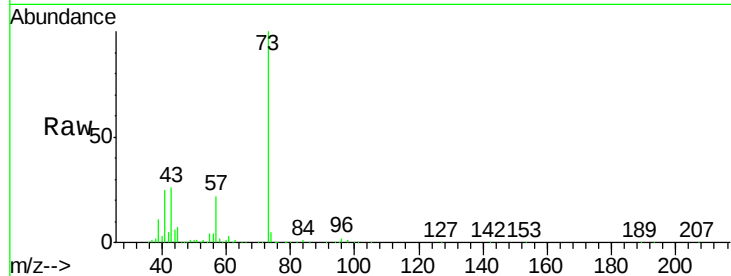
Methyl tert-butyl Ether
 Concen: 49.367 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.9	15.8	23.8

Manual Integrations
 APPROVED

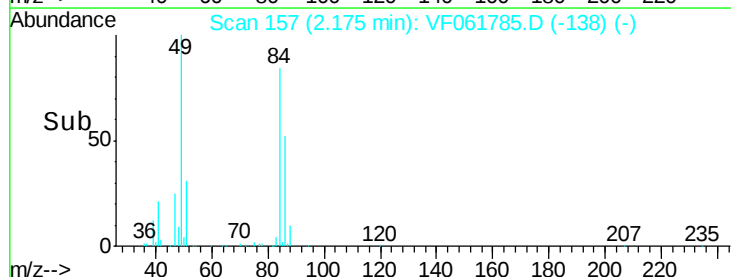
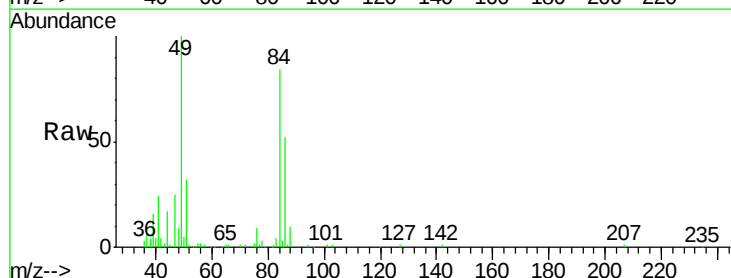
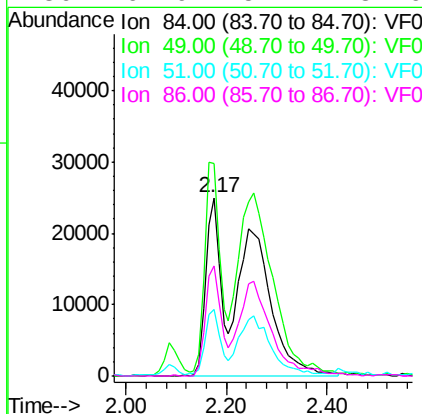
MMDadoda
 3/2/2019 4:09:35 AM

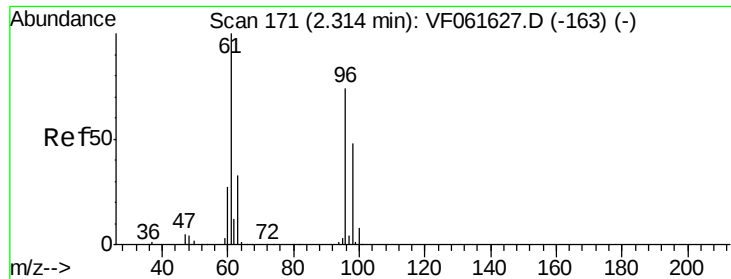


#20

Methylene Chloride
 Concen: 54.696 ug/l m
 RT: 2.17 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.8	101.8	152.8
51	37.6	31.1	46.7
86	61.9	54.4	81.6





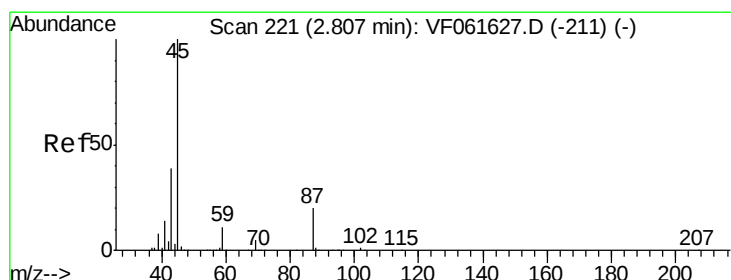
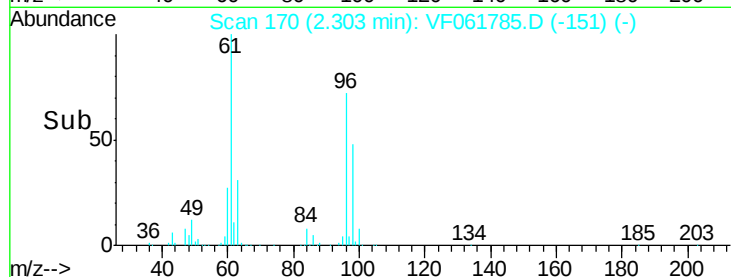
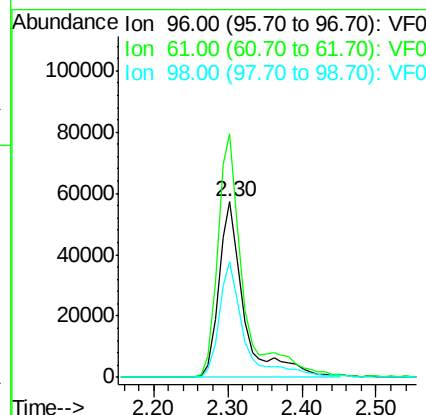
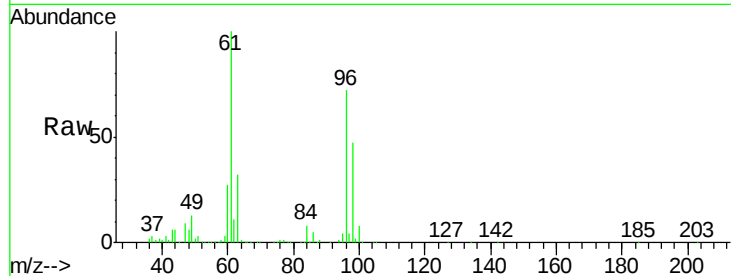
#21
trans-1,2-Dichloroethene
Concen: 46.602 ug/l m
RT: 2.30 min Scan# 170
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.6	108.2	162.4
98	65.8	52.2	78.2

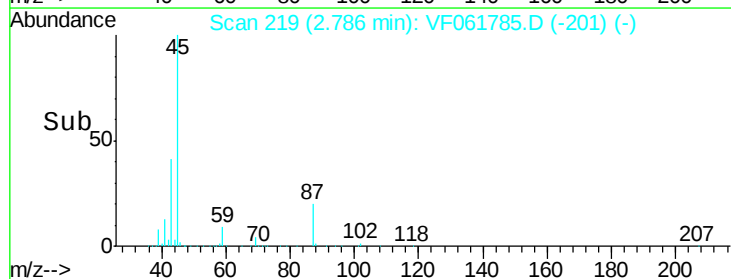
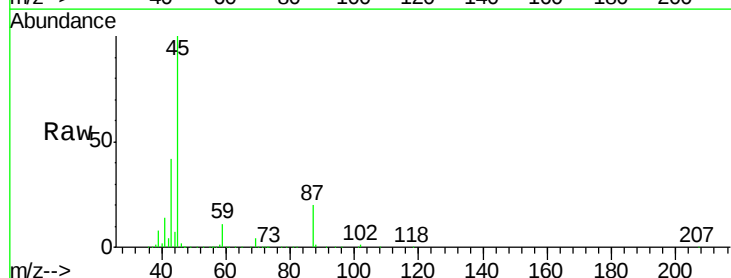
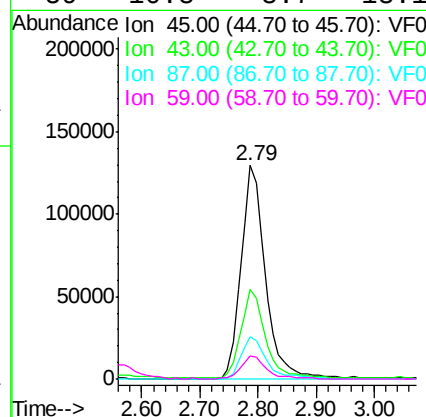
Manual Integrations
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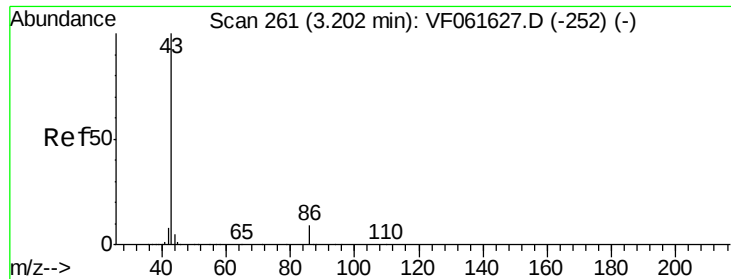
MMDadoda
3/2/2019 4:09:35 AM



#22
Diisopropyl ether
Concen: 47.489 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
45	100		
43	41.8	31.4	47.2
87	19.6	16.3	24.5
59	10.8	8.7	13.1





#23

Vinyl Acetate

Concen: 226.860 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 877452

Ion Ratio Lower Upper

43 100

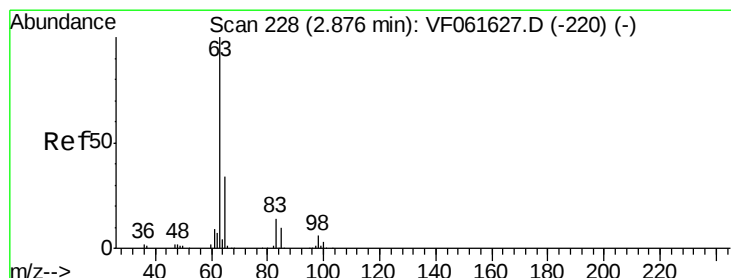
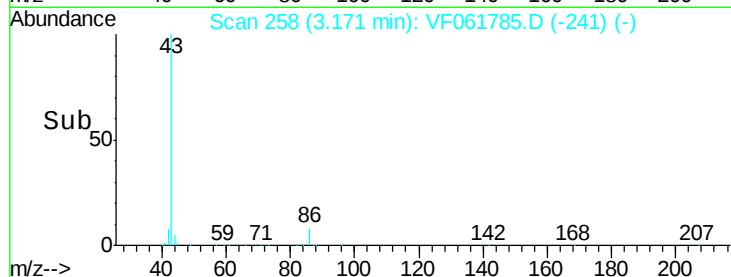
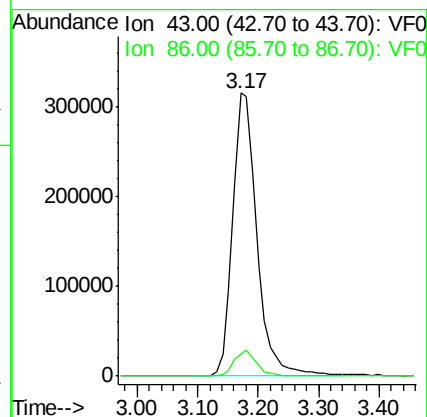
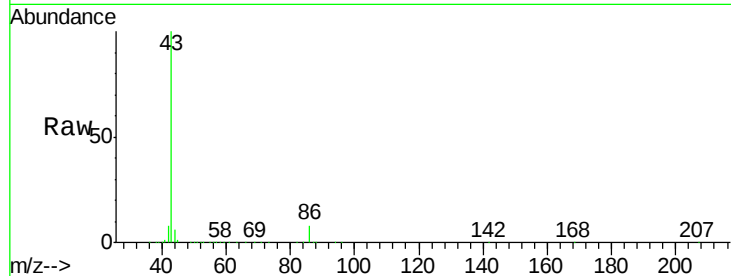
86 8.0 7.5 11.3

Manual Integrations

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3/2/2019 4:09:35 AM



#24

1,1-Dichloroethane

Concen: 50.888 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

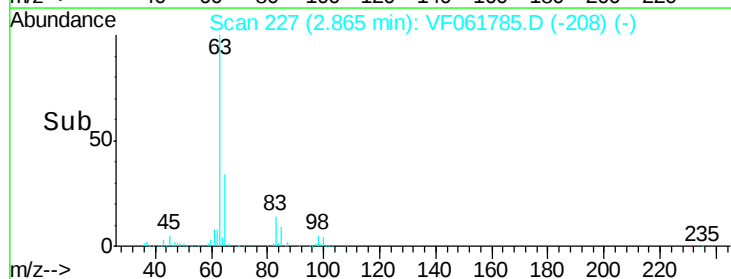
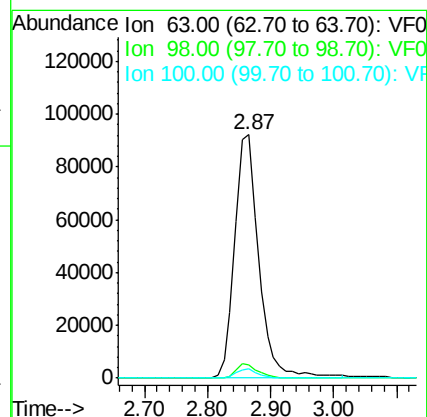
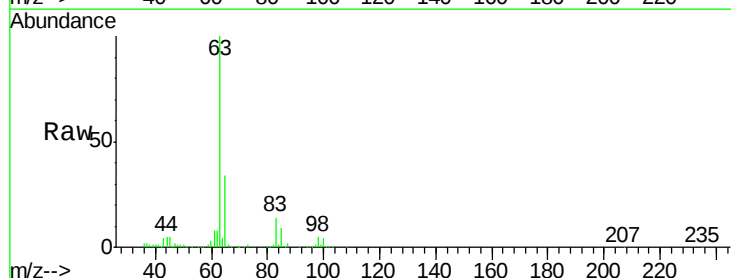
Tgt Ion: 63 Resp: 243869

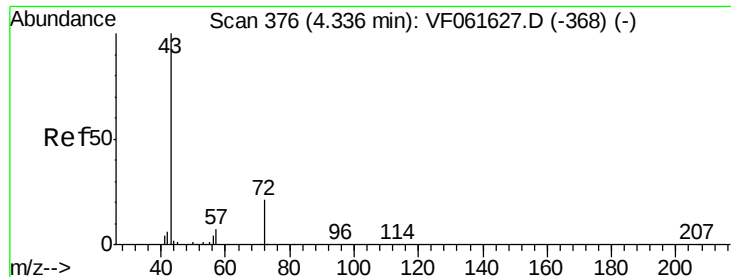
Ion Ratio Lower Upper

63 100

98 5.2 2.8 8.3

100 3.7 1.8 5.4





#25

2-Butanone

Concen: 246.159 ug/l

RT: 4.31 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 265414

Ion Ratio Lower Upper

43 100

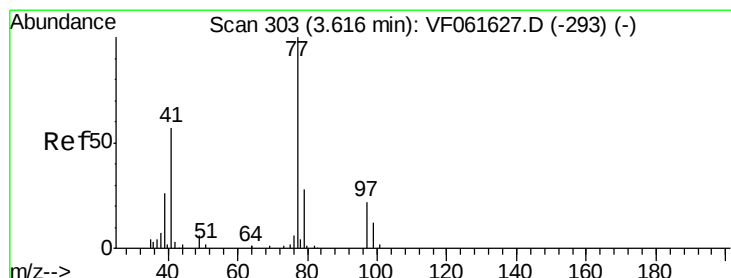
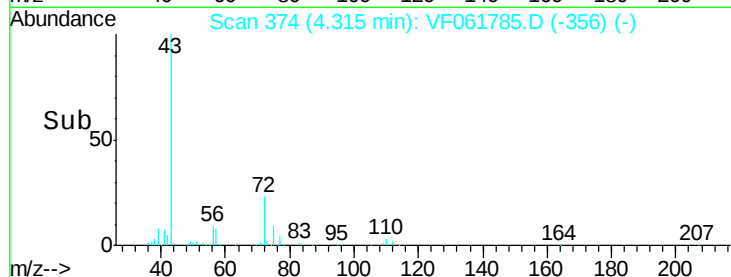
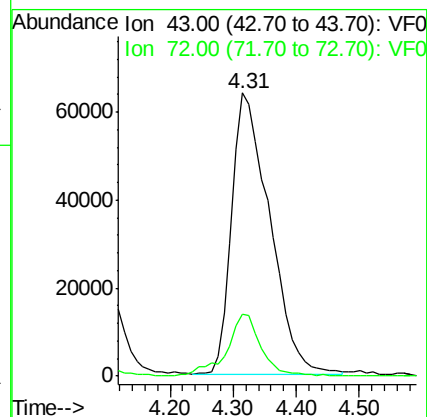
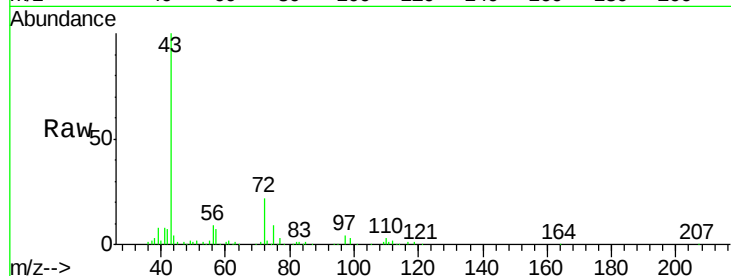
72 21.8 17.1 25.7

Manual Integrations

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3/2/2019 4:09:35 AM



#26

2,2-Dichloropropane

Concen: 54.972 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.03 min

Lab File: VF061785.D

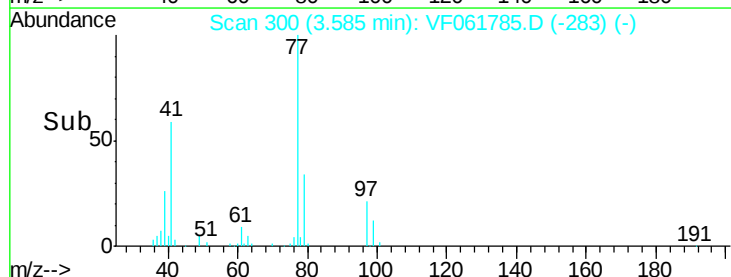
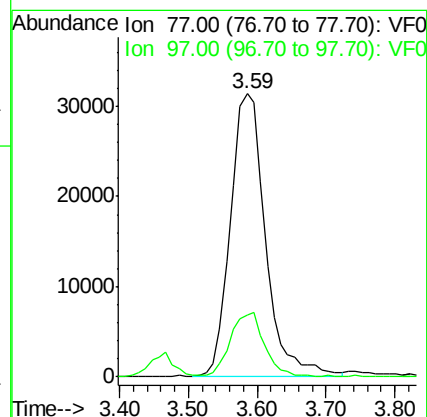
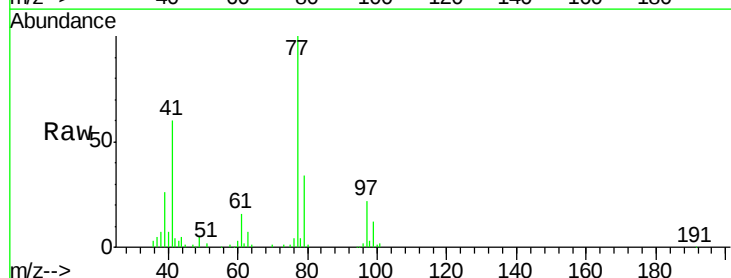
Acq: 28 Feb 2019 12:20

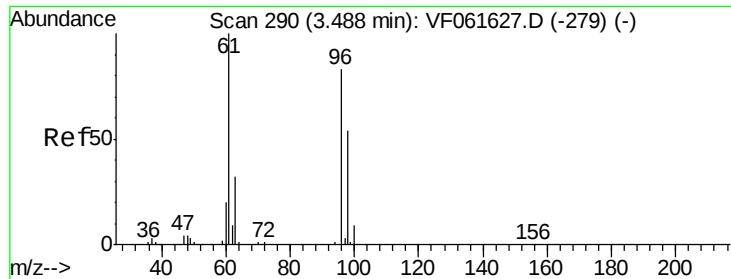
Tgt Ion: 77 Resp: 111587

Ion Ratio Lower Upper

77 100

97 21.8 11.7 35.0





#27

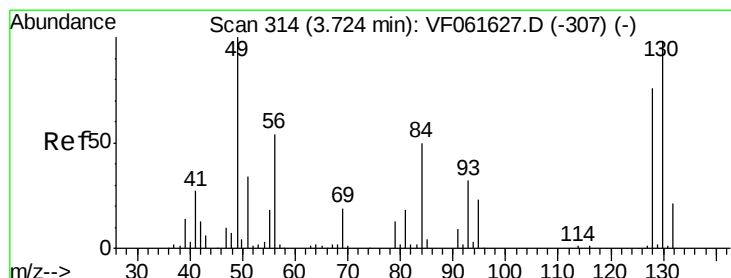
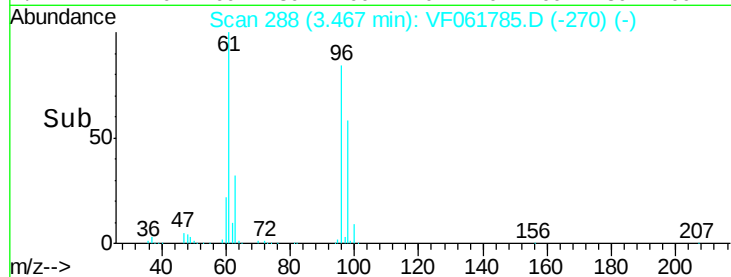
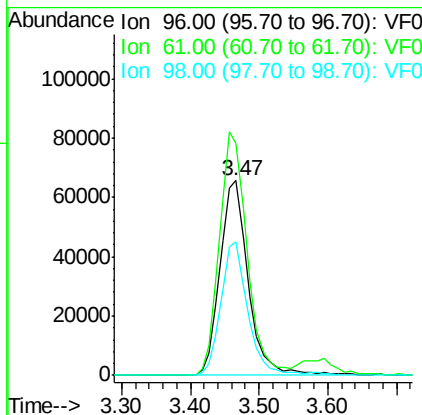
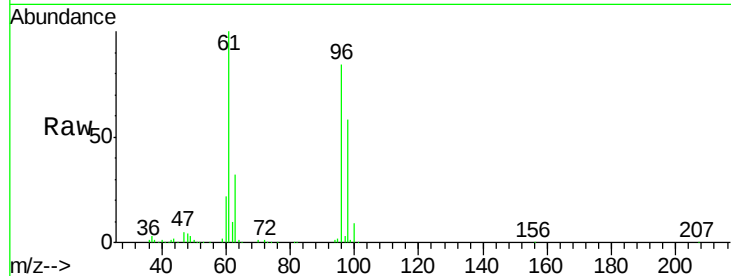
cis-1,2-Dichloroethene
Concen: 48.763 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	187056		
61	119.1	0.0	241.6	
98	68.6	0.0	130.2	

Manual Integrations
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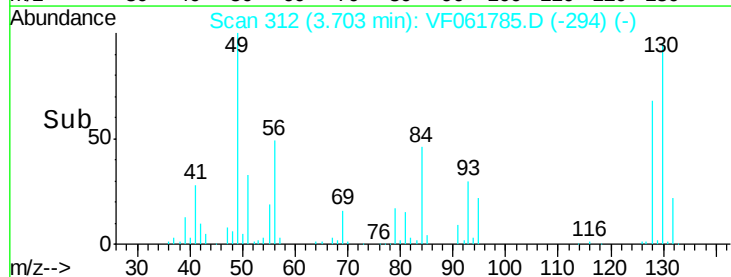
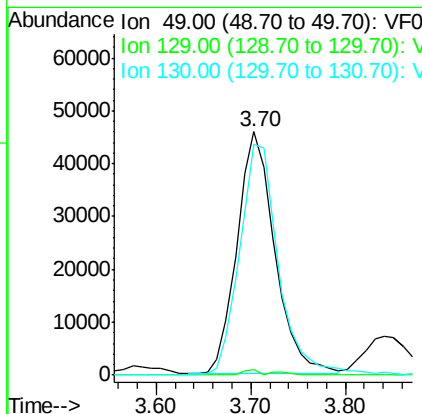
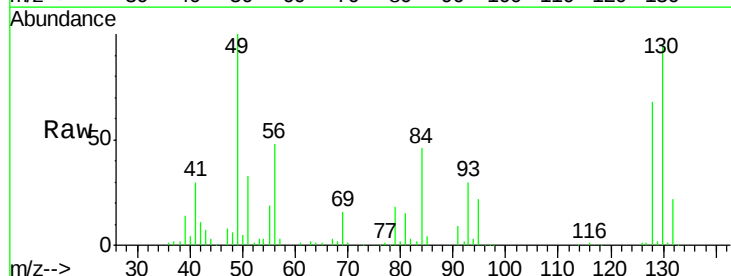
MMDadoda
3/2/2019 4:09:35 AM

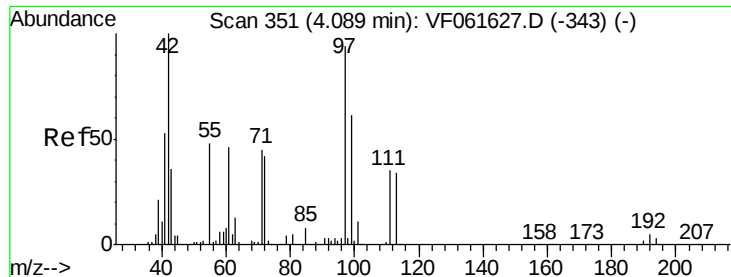


#28

Bromochloromethane
Concen: 55.126 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	126756		
129	2.2	0.0	3.4	
130	95.0	77.7	116.5	





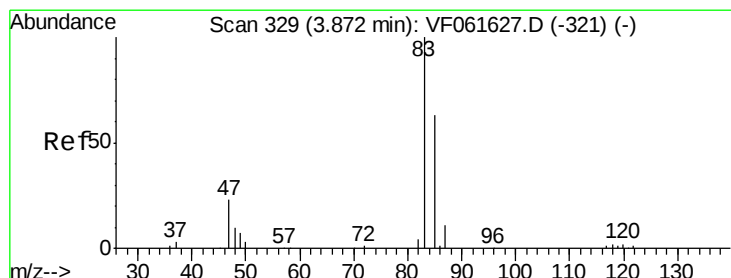
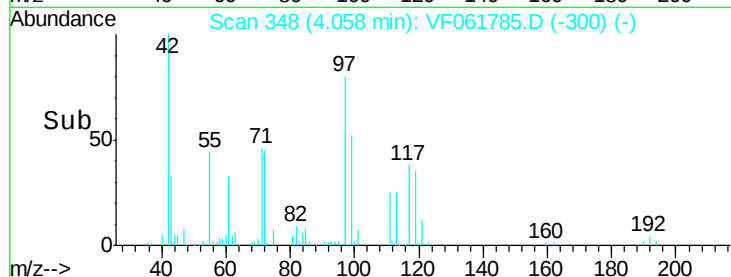
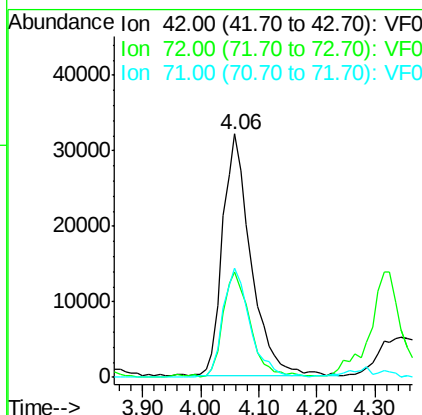
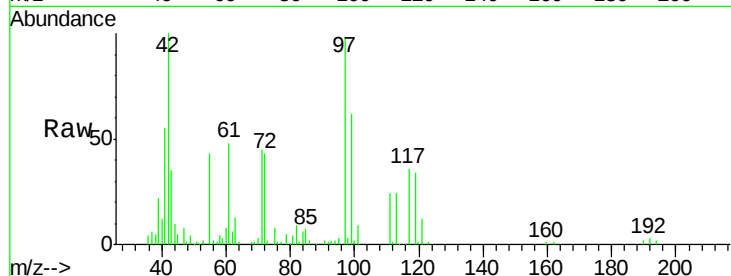
#29
Tetrahydrofuran
Concen: 222.454 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.03 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100	109016		
72	41.7		35.2	52.8
71	43.1		32.9	49.3

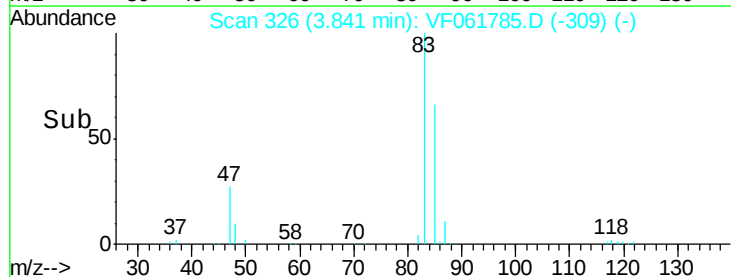
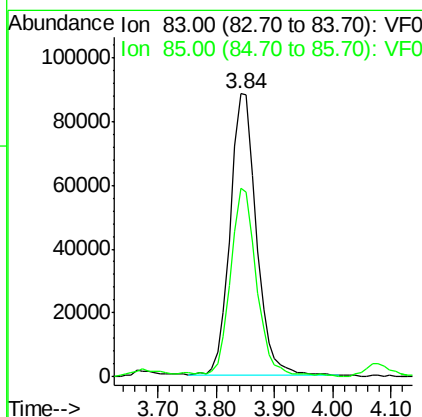
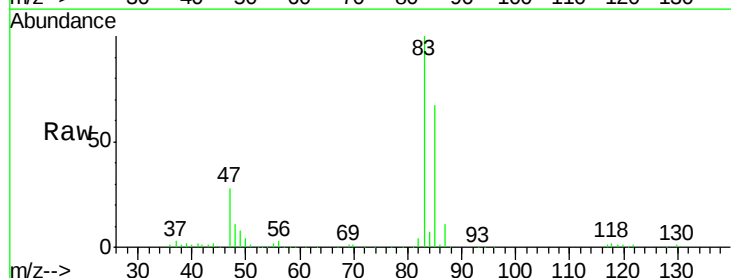
Manual Integrations
APPROVED

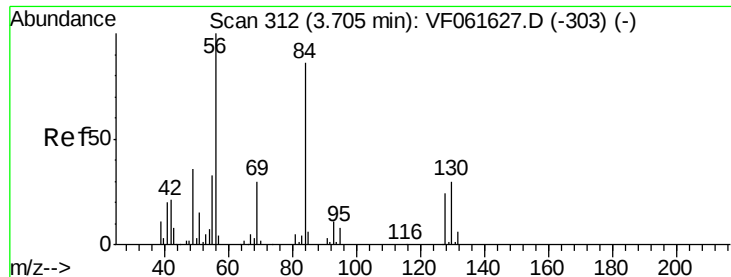
MMDadoda
3/2/2019 4:09:35 AM



#30
Chloroform
Concen: 50.932 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	277574		
85	66.9		51.1	76.7





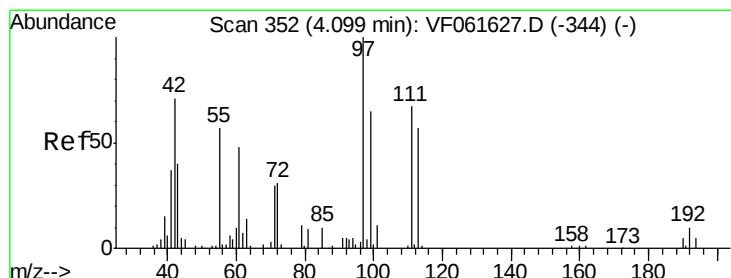
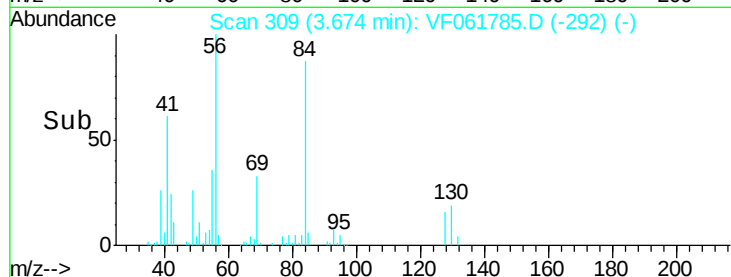
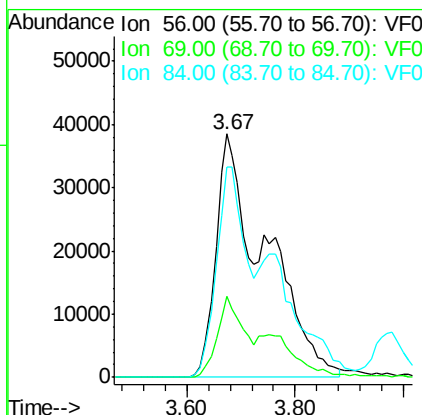
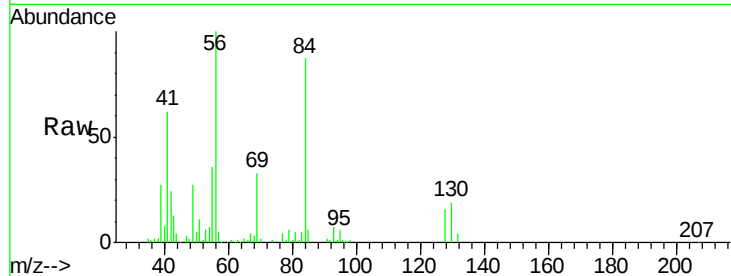
#31
Cyclohexane
Concen: 46.762 ug/l m
RT: 3.67 min Scan# 309
Delta R.T. -0.03 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.1	23.8	35.8
84	86.5	68.6	103.0

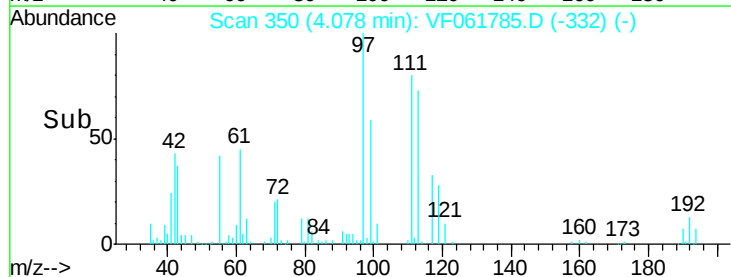
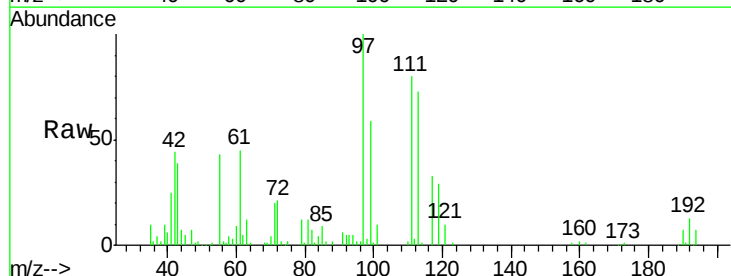
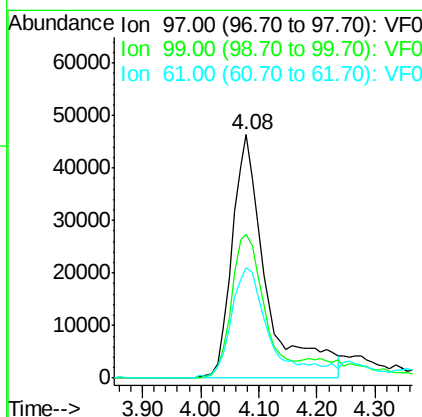
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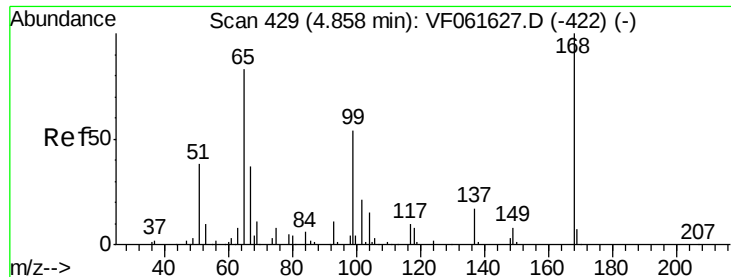
MMDadoda
3/2/2019 4:09:35 AM



#32
1,1,1-Trichloroethane
Concen: 53.526 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	58.8	52.2	78.2
61	45.5	39.2	58.8





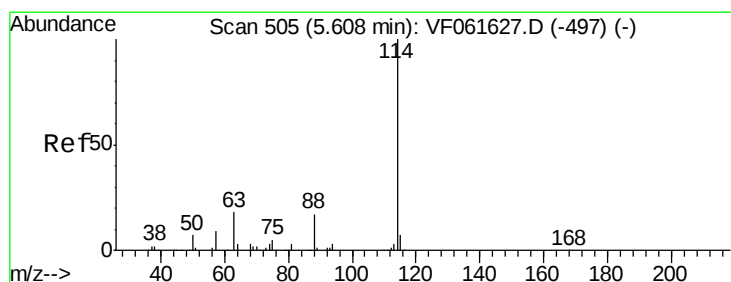
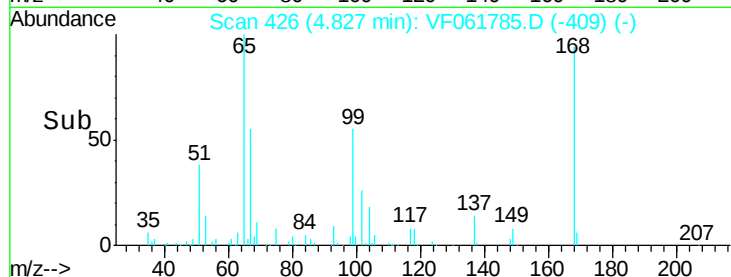
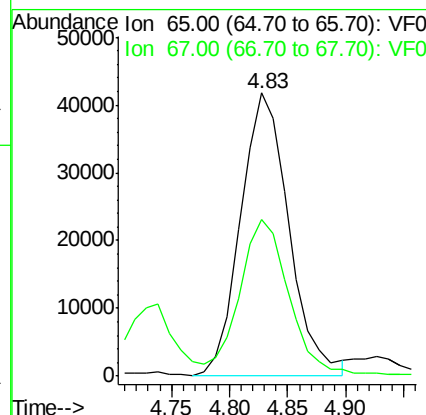
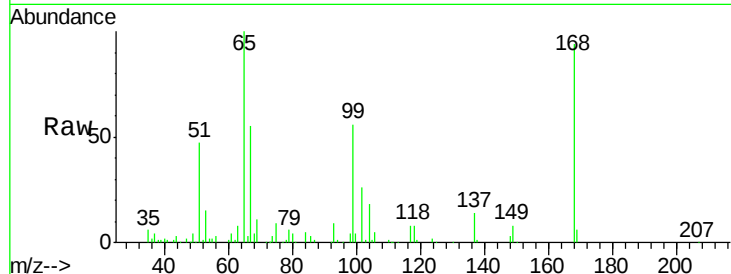
#33
 1,2-Dichloroethane-d4
 Concen: 52.093 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	119848		
67	55.3	0.0	104.0	

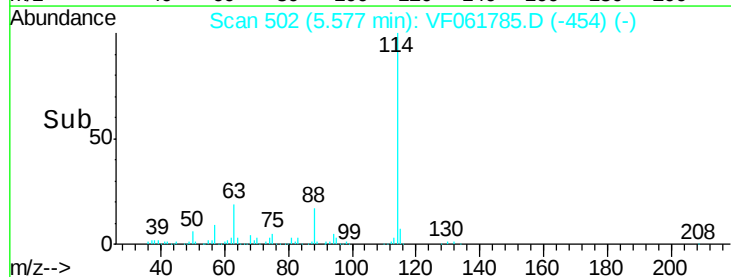
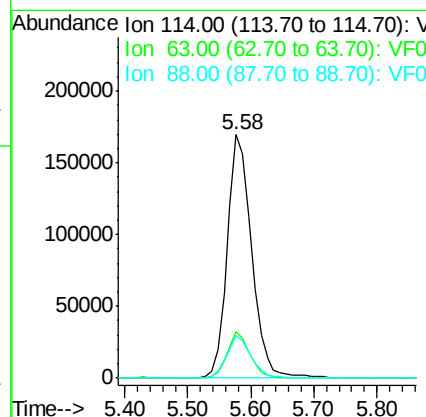
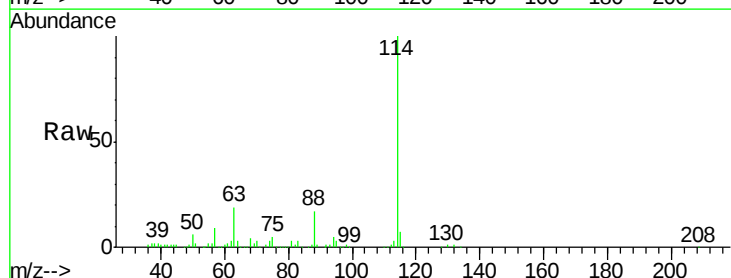
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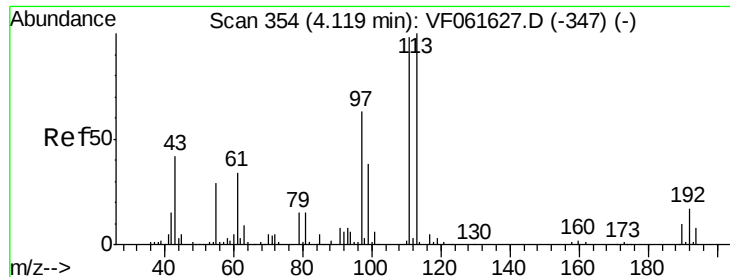
MMDadoda
 3/2/2019 4:09:35 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	456398		
63	19.0	0.0	36.6	
88	17.3	0.0	34.4	





#35

Dibromofluoromethane

Concen: 52.183 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:113 Resp: 176860

Ion Ratio Lower Upper

113 100

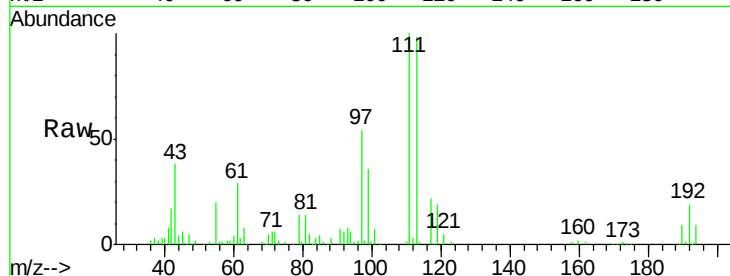
111 102.4 78.8 118.2

192 20.4 13.4 20.0#

Manual Integrations
APPROVED

MMDadoda

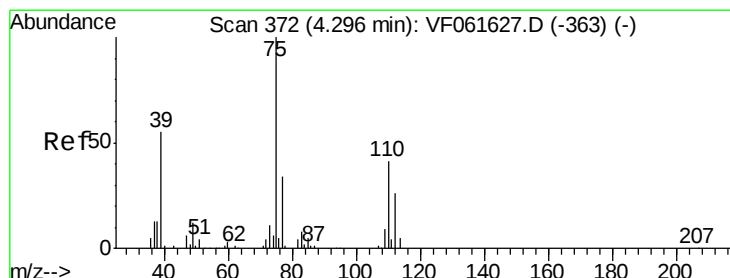
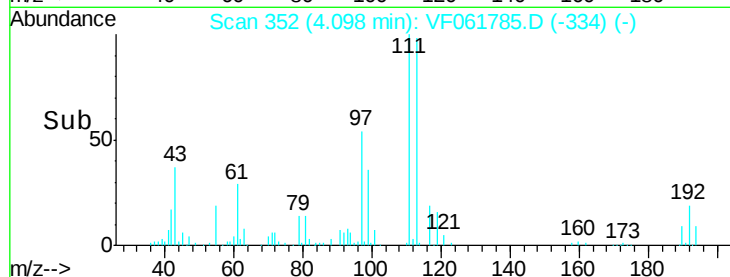
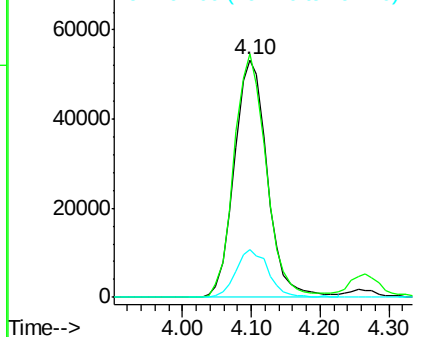
3/2/2019 4:09:35 AM



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 51.683 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

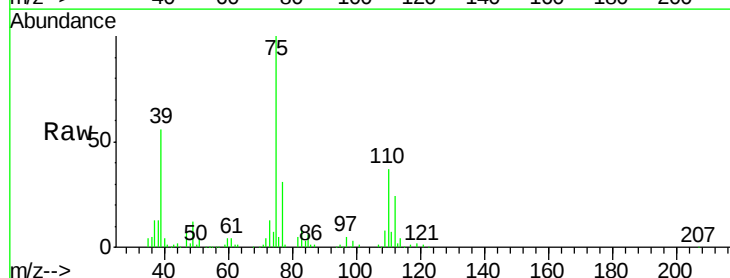
Tgt Ion: 75 Resp: 233666

Ion Ratio Lower Upper

75 100

110 36.8 20.5 61.6

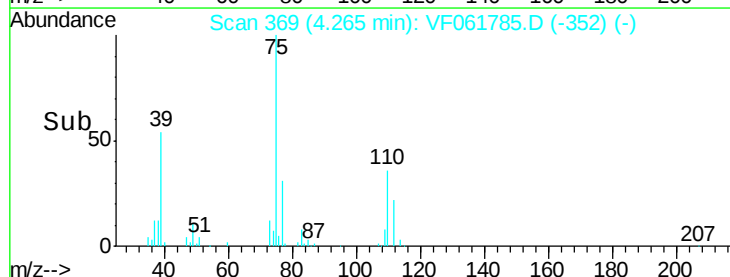
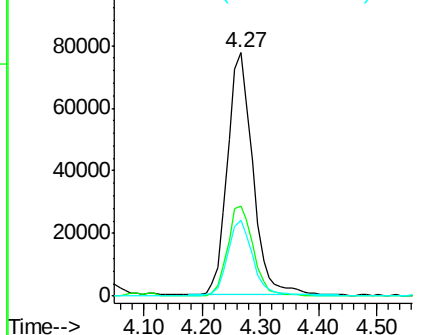
77 31.0 27.0 40.4

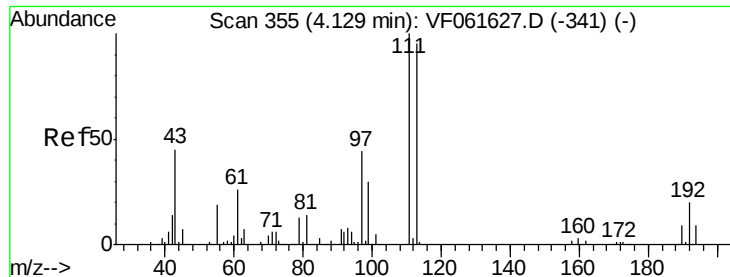


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





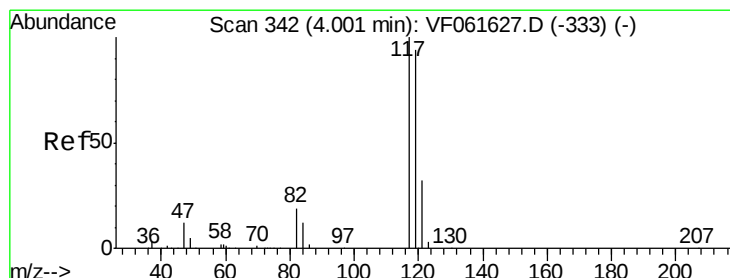
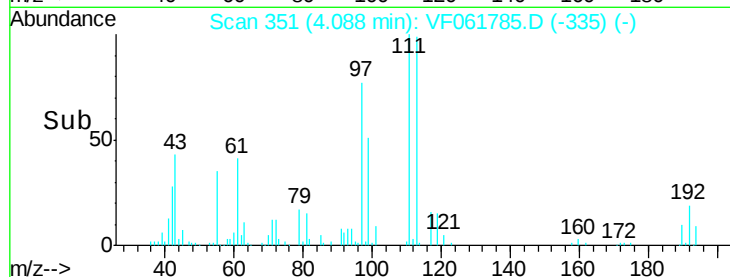
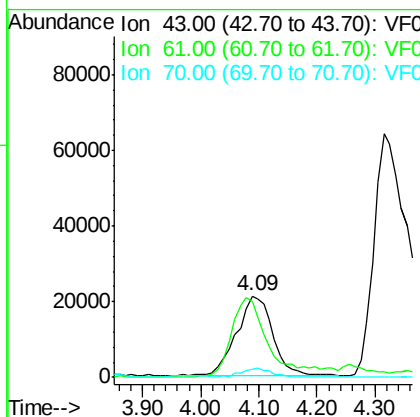
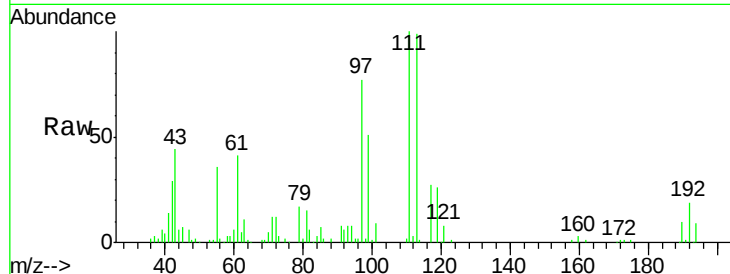
#37
Ethyl Acetate
Concen: 42.892 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.04 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	92.7	45.7	68.5			
70	10.5	8.5	12.7			

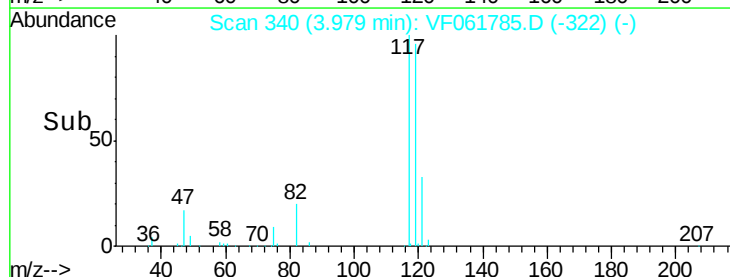
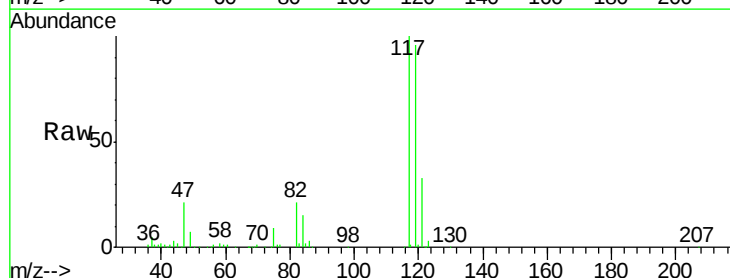
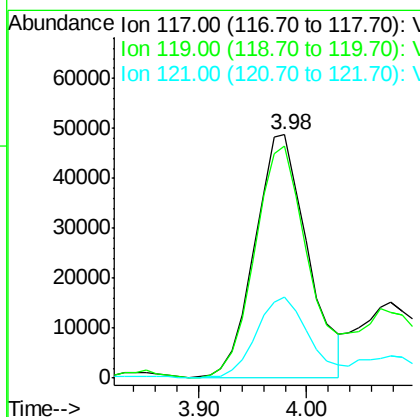
Manual Integrations
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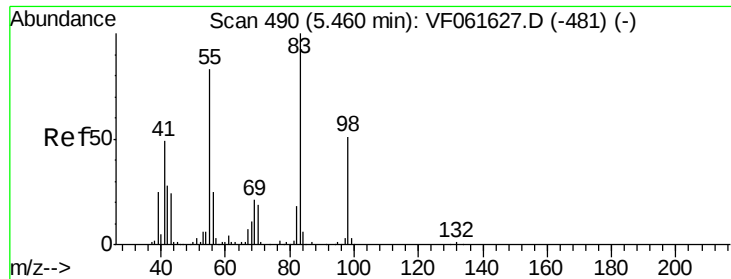
MMDadoda
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#38
Carbon Tetrachloride
Concen: 52.807 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	95.2	75.6	113.4			
121	33.4	25.2	37.8			





#39

Methvlcvclohexane

Concen: 53.532 ug/l

RT: 5.44 min Scan# 488

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

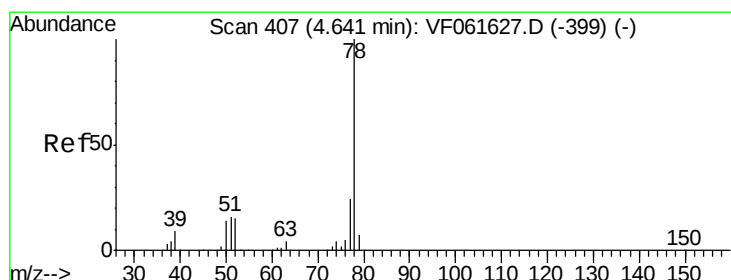
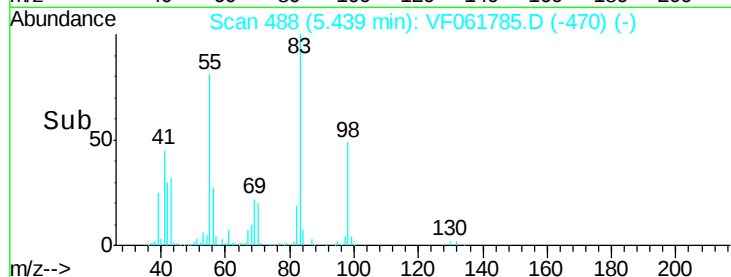
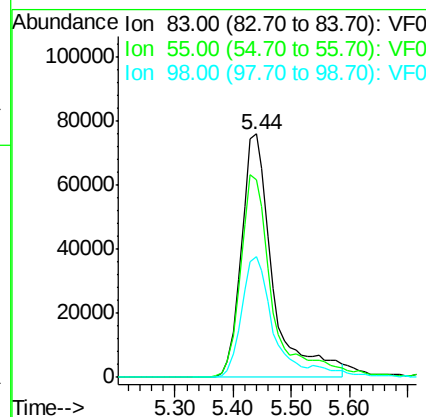
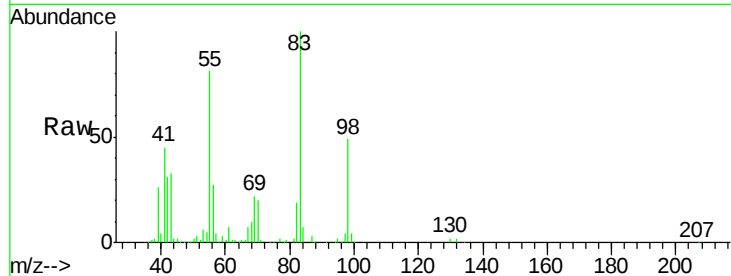
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	286239
Ion Ratio	Lower	Upper	
83	100		
55	81.1	66.6	99.8
98	49.4	40.4	60.6

Manual Integrations
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3/2/2019 4:09:35 AM



#40

Benzene

Concen: 50.795 ug/l

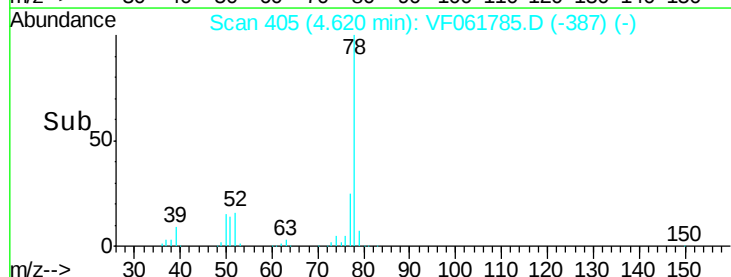
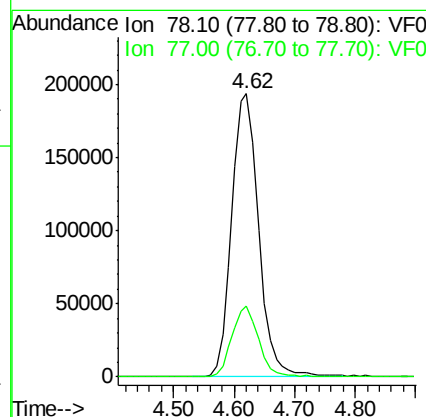
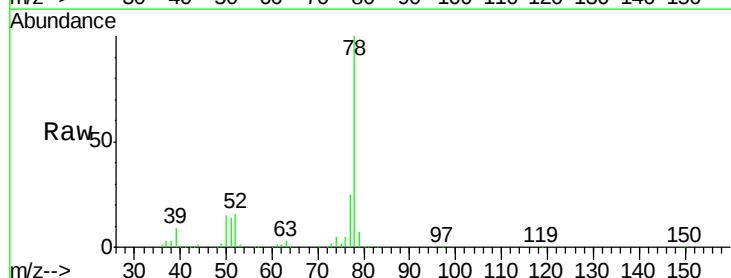
RT: 4.62 min Scan# 405

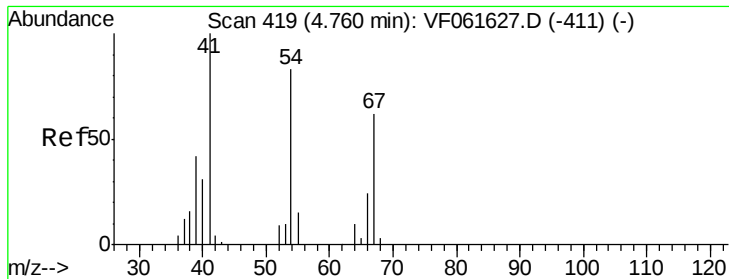
Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion:	78	Resp:	600694
Ion Ratio	Lower	Upper	
78	100		
77	24.9	19.0	28.6





#41

Methacrylonitrile

Concen: 47.908 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

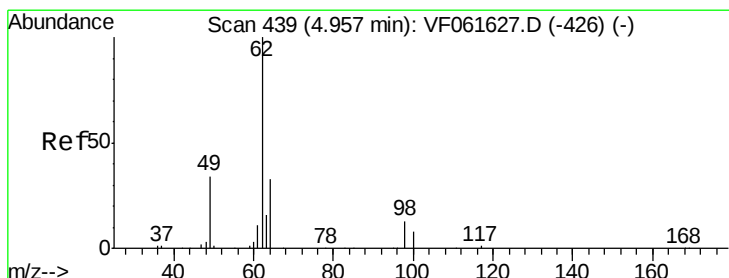
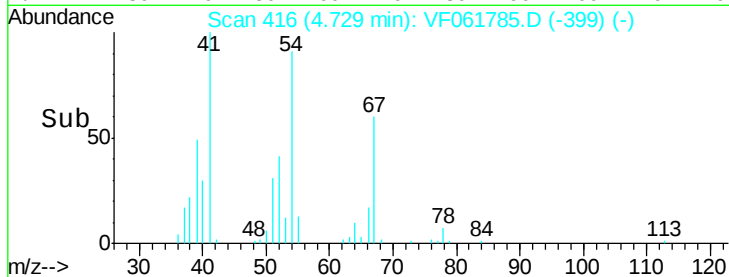
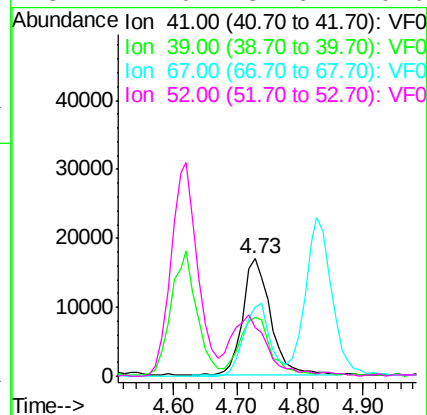
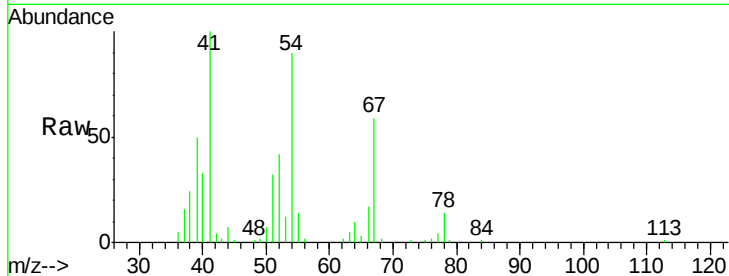
ClientSampleId :

VSTDCCC050

Tot Ion:	41	Resp:	51450
Ion	Ratio	Lower	Upper
41	100		
39	50.0	45.3	67.9
67	59.1	49.3	73.9
52	41.9	32.6	49.0

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 51.253 ug/l

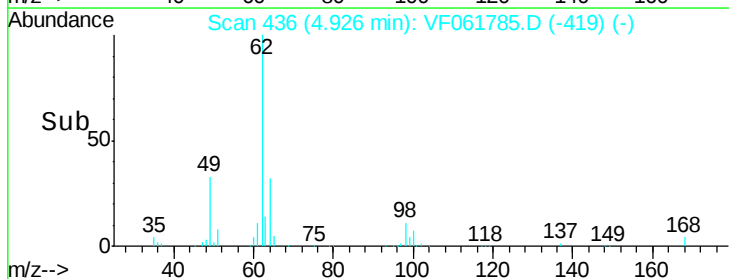
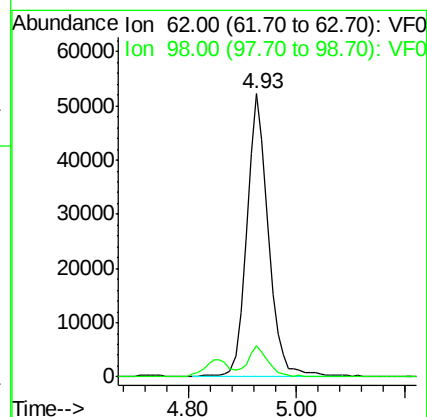
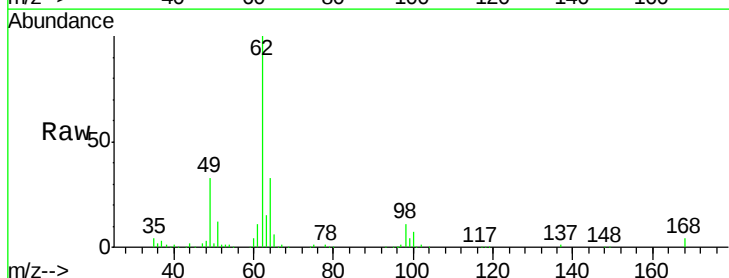
RT: 4.93 min Scan# 436

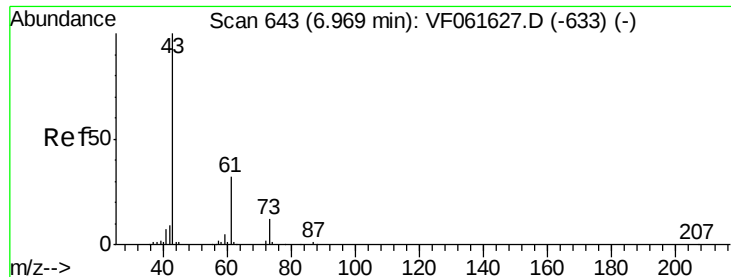
Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion:	62	Resp:	144985
Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	26.0





#43

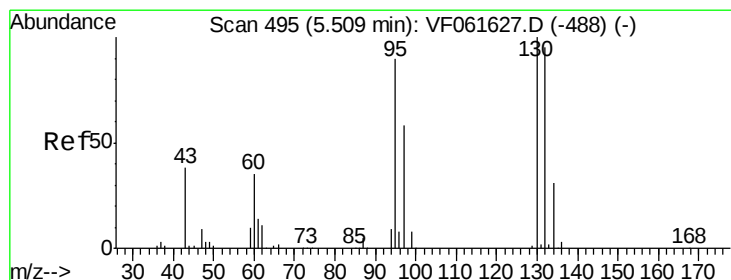
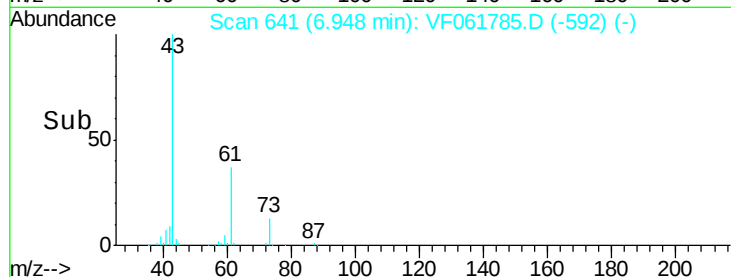
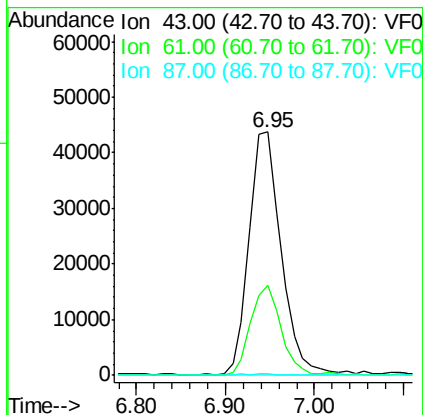
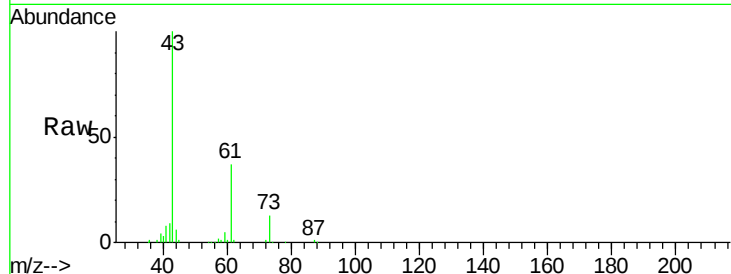
Isopropyl Acetate
 Concen: 44.078 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.02 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	37.1	25.8	38.6	
87	0.6	0.4	0.6	

Manual Integrations
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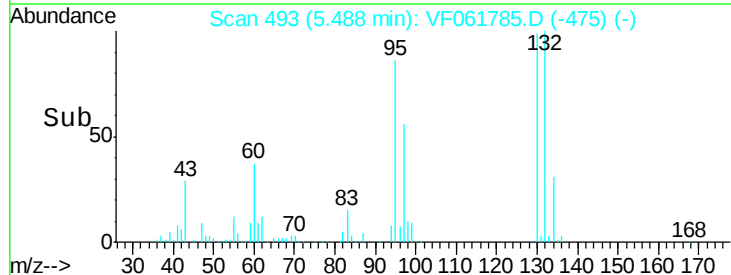
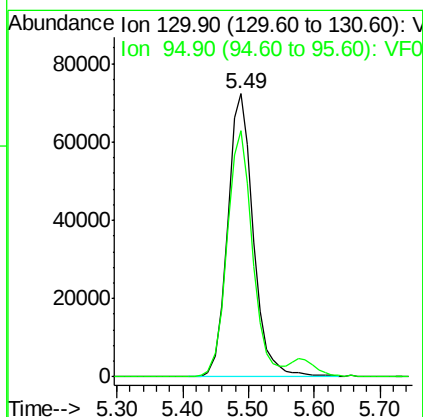
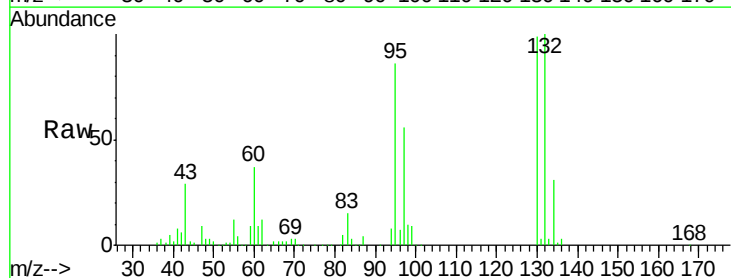
MMDadoda
 3/2/2019 4:09:35 AM

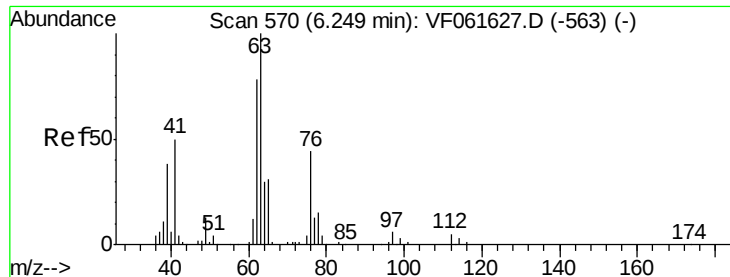


#44

Trichloroethene
 Concen: 51.814 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.02 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
130	100			
95	87.1	0.0	179.4	





#45

1,2-Dichloropropane

Concen: 50.666 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 144830

Ion Ratio Lower Upper

63 100

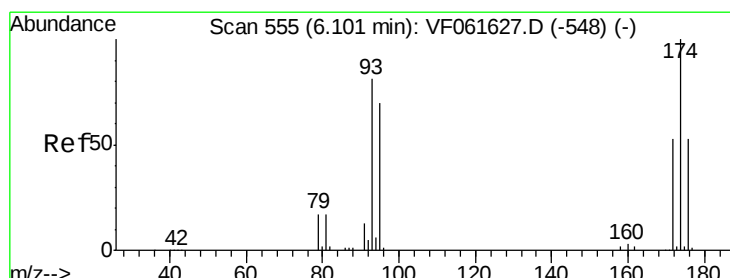
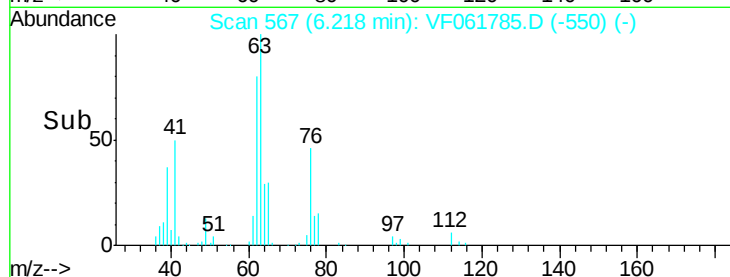
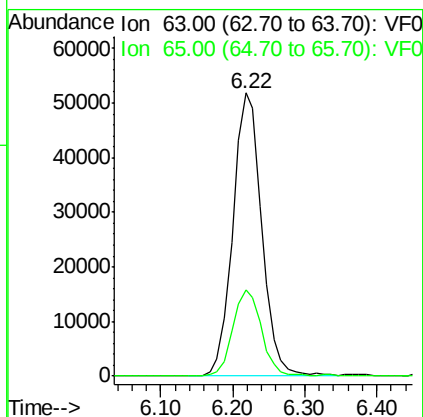
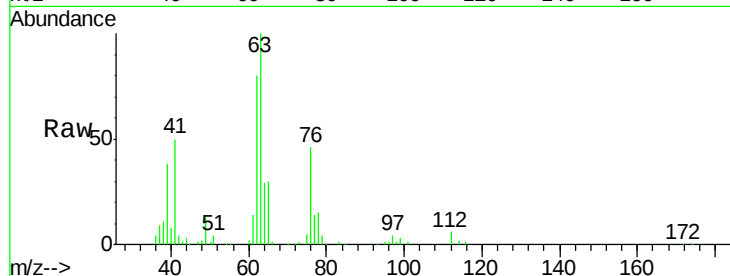
65 30.3 24.9 37.3

Manual Integrations

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MMDadoda

3/2/2019 4:09:35 AM



#46

Dibromomethane

Concen: 50.170 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

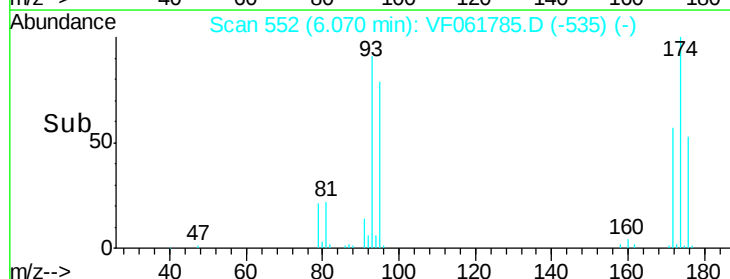
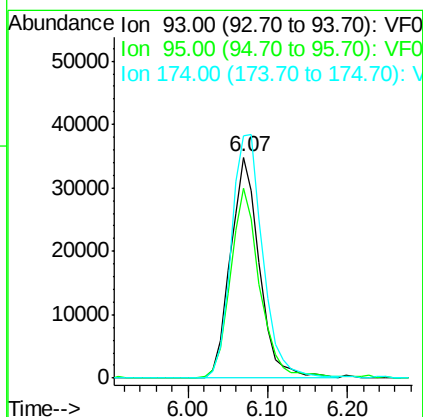
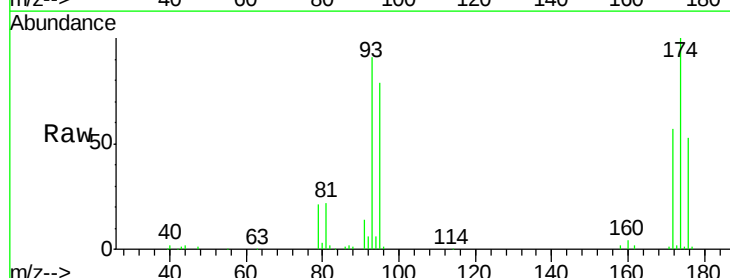
Tgt Ion: 93 Resp: 88300

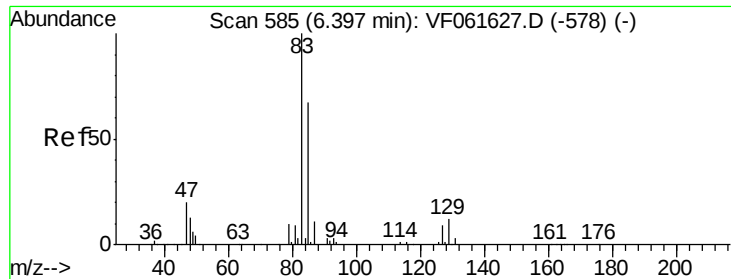
Ion Ratio Lower Upper

93 100

95 86.3 69.0 103.6

174 109.7 99.3 148.9





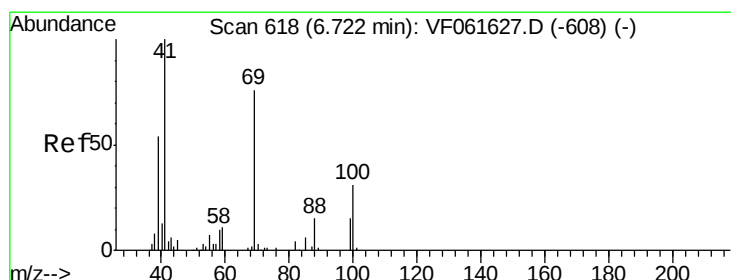
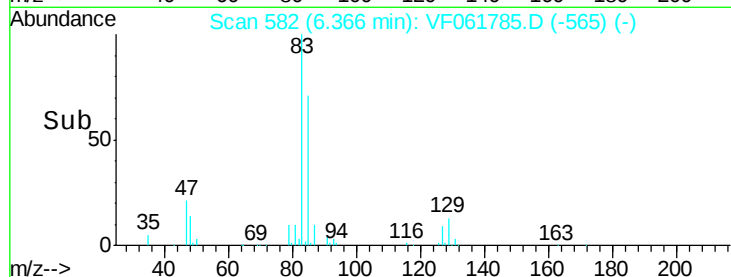
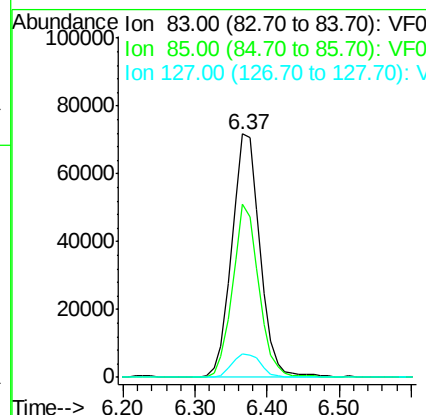
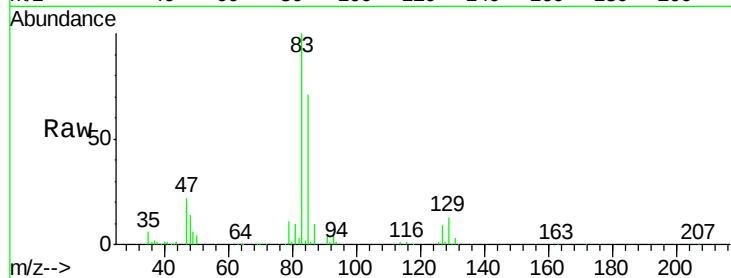
#47
Bromodichloromethane
Concen: 50.711 ug/l
RT: 6.37 min Scan# 582
Delta R.T. -0.03 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	195452
Ion Ratio	100	Lower	Upper
83	100		
85	71.1	53.4	80.2
127	9.5	7.5	11.3

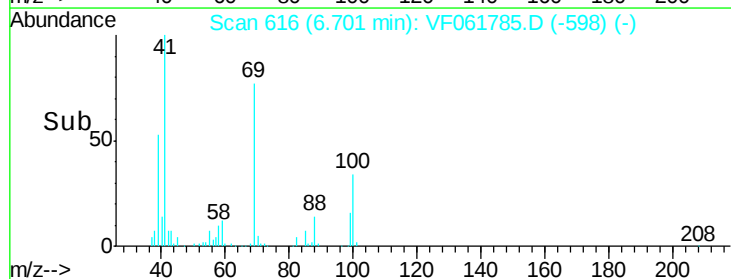
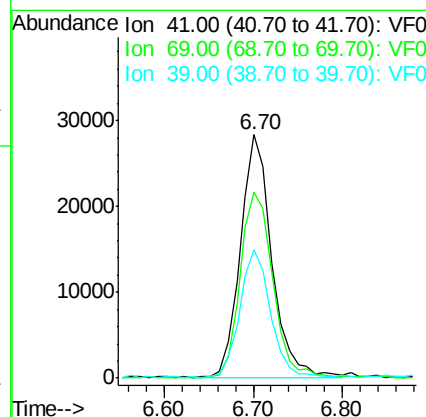
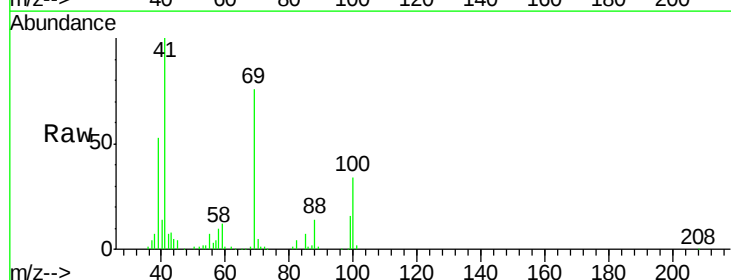
Manual Integrations
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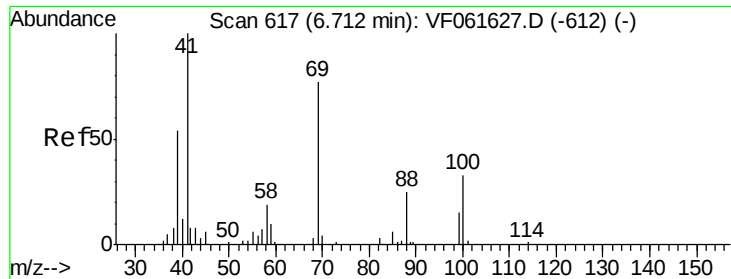
MMDadoda
3/2/2019 4:09:35 AM



#48
Methyl methacrylate
Concen: 46.822 ug/l
RT: 6.70 min Scan# 616
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	41	Resp	70040
Ion Ratio	100	Lower	Upper
41	100		
69	76.3	60.4	90.6
39	52.7	43.7	65.5





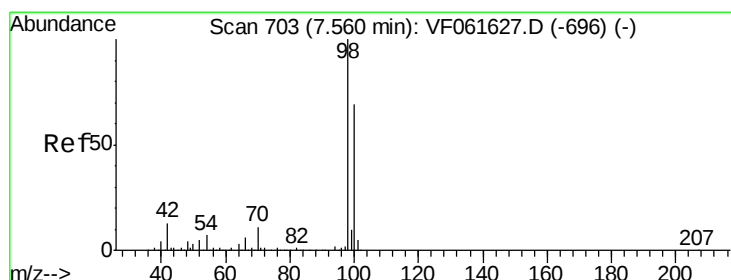
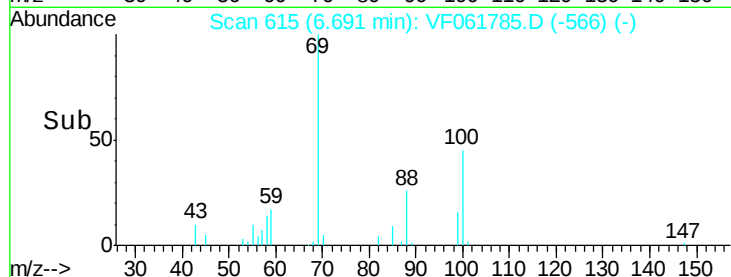
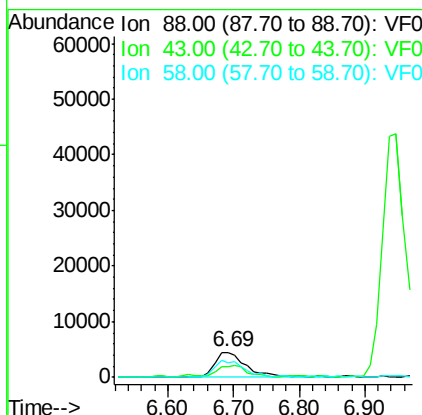
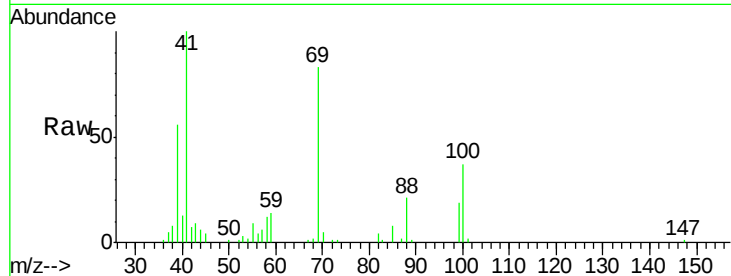
#49
1,4-Dioxane
Concen: 1096.999 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	41.6	32.3	48.5
58	56.3	59.4	89.2#

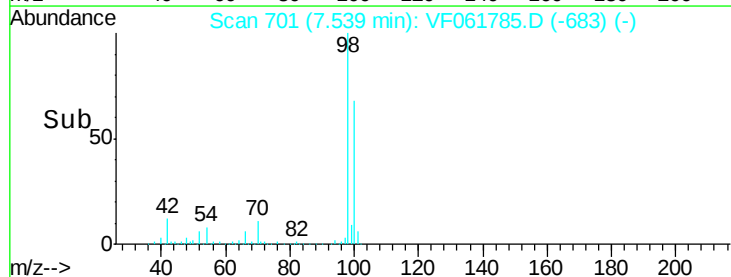
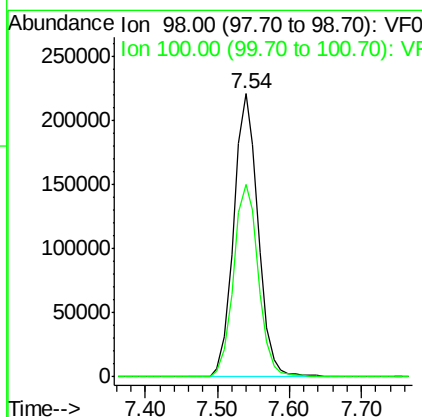
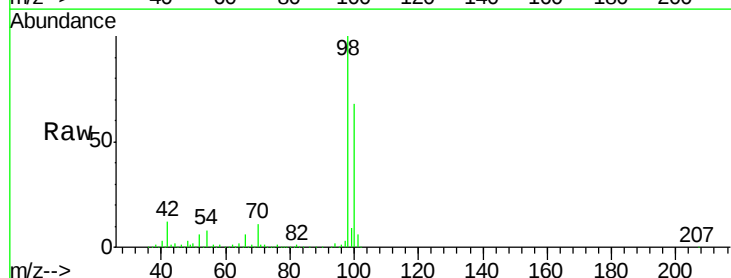
Manual Integrations
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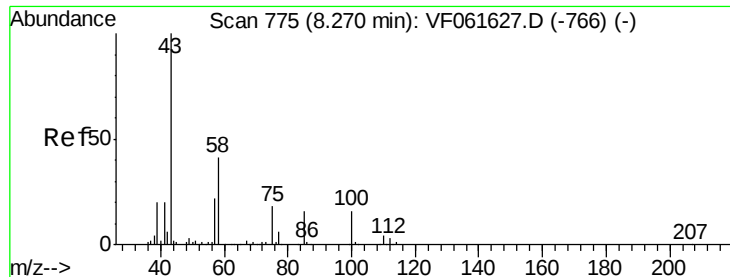
MMDadoda
3/2/2019 4:09:35 AM



#50
Toluene-d8
Concen: 53.645 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.2	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 220.253 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 391196

Ion Ratio Lower Upper

43 100

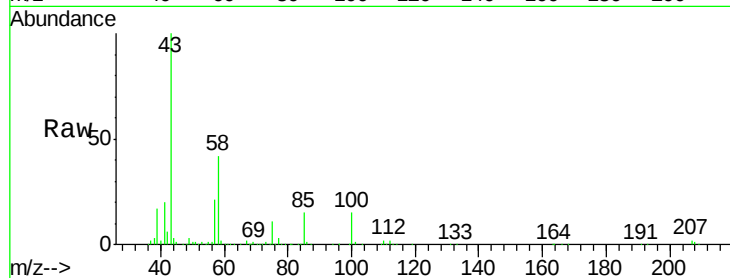
58 41.6 33.1 49.7

Manual Integrations

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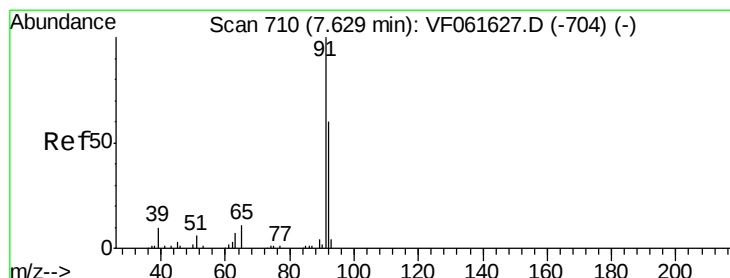
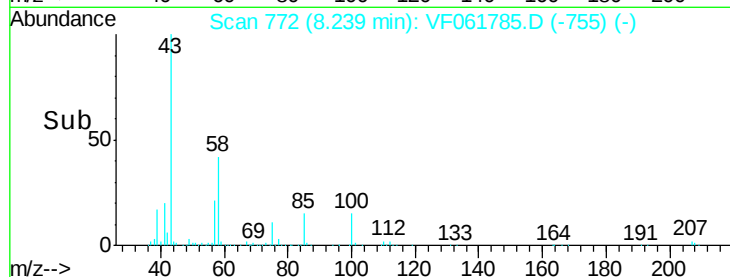
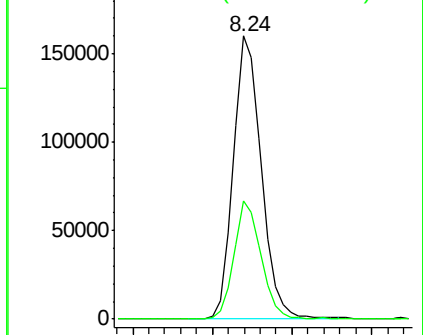
MMDadoda

3/2/2019 4:09:35 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 49.004 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061785.D

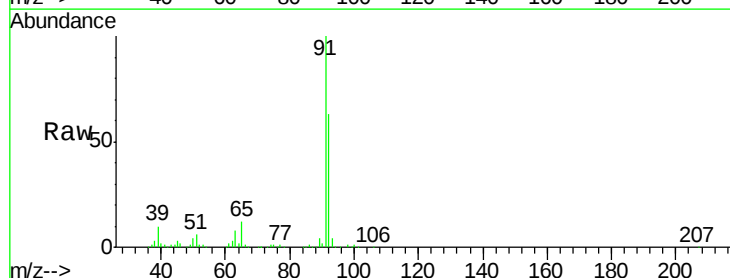
Acq: 28 Feb 2019 12:20

Tgt Ion: 92 Resp: 351470

Ion Ratio Lower Upper

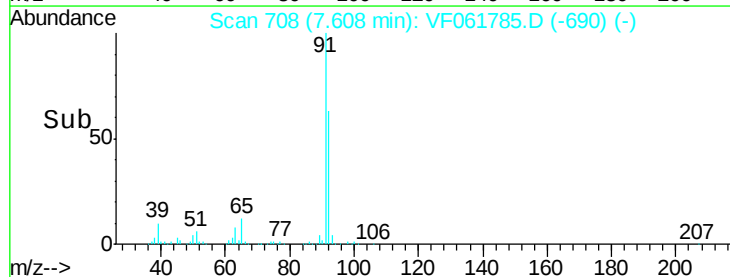
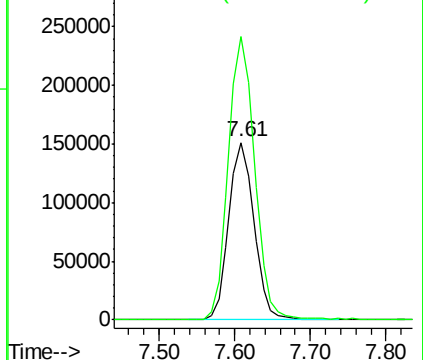
92 100

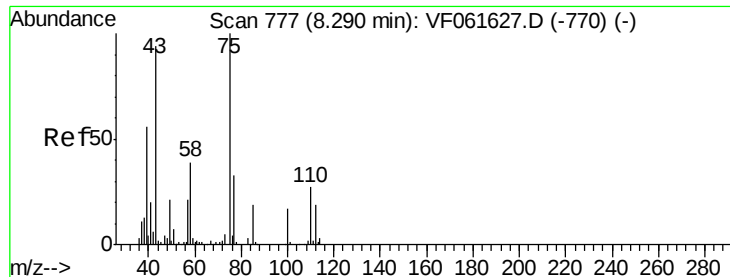
91 159.8 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 49.262 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 158018

Ion Ratio Lower Upper

75 100

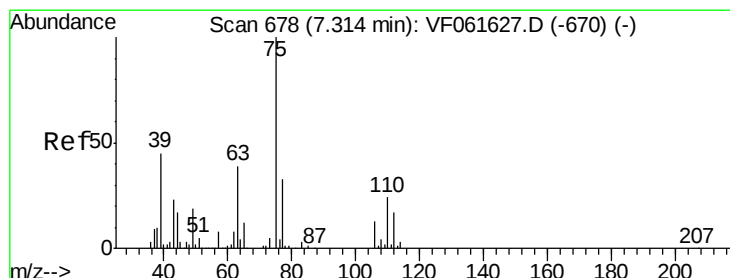
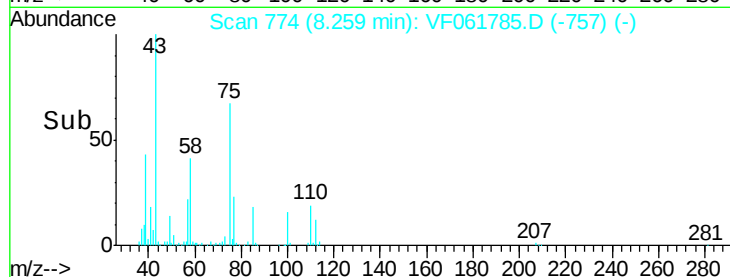
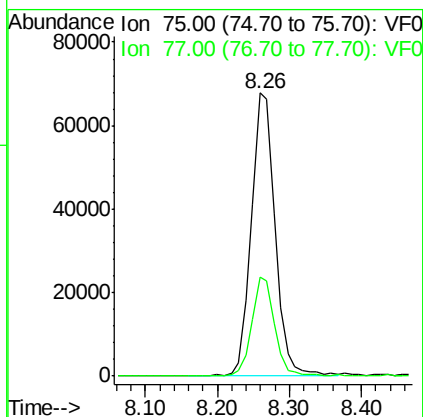
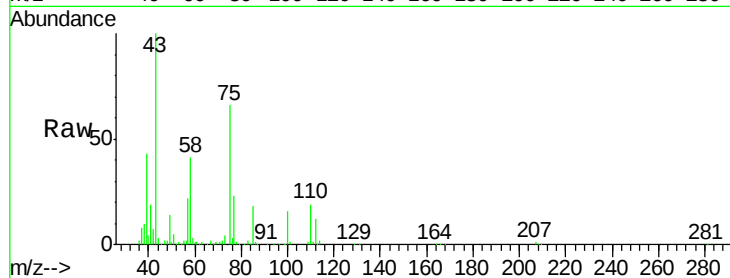
77 35.0 26.2 39.2

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 52.368 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

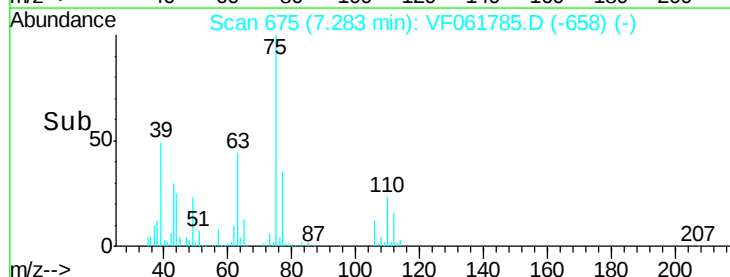
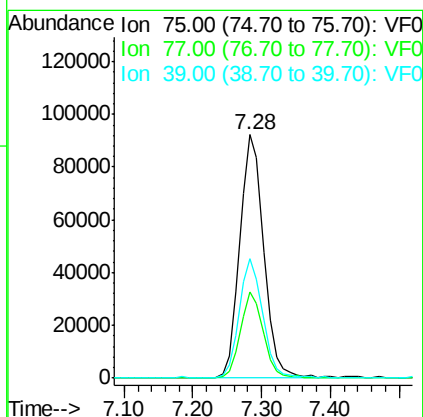
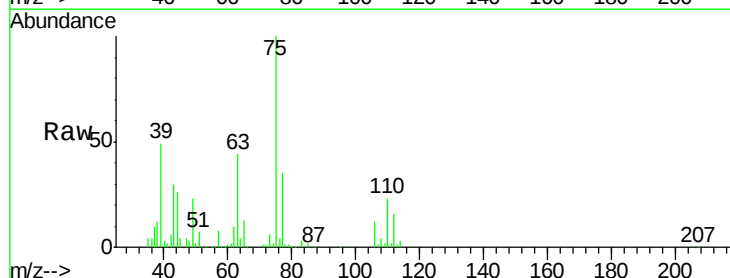
Tgt Ion: 75 Resp: 223752

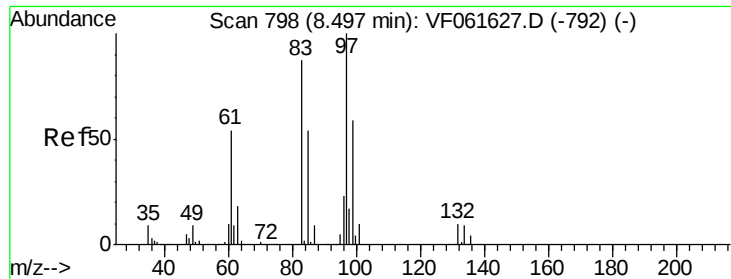
Ion Ratio Lower Upper

75 100

77 35.5 26.4 39.6

39 49.3 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 50.250 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

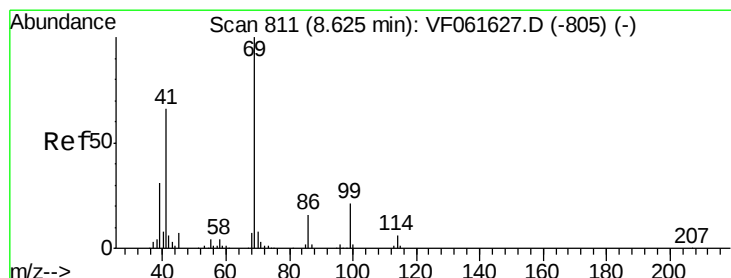
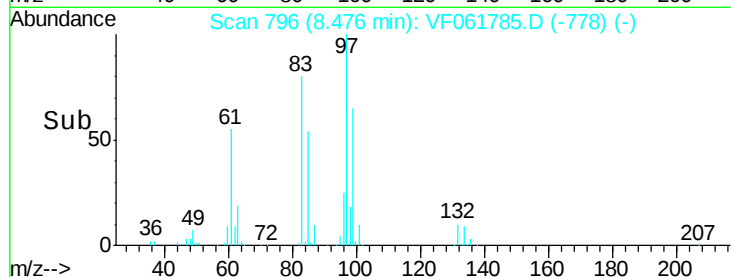
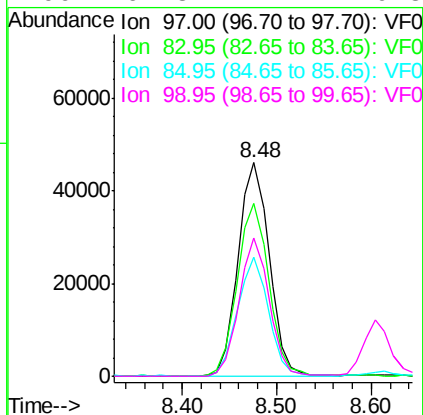
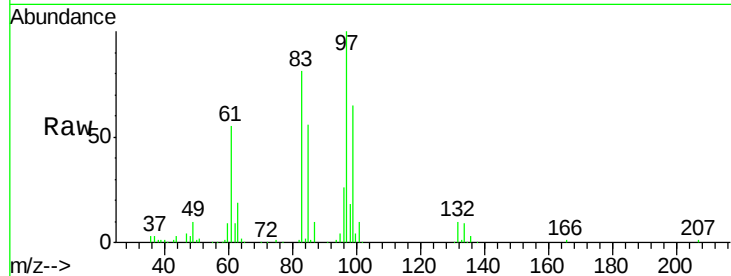
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	105891
Ion	Ratio	Lower	Upper
97	100		
83	80.7	69.2	103.8
85	56.0	43.0	64.4
99	64.8	47.2	70.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 48.043 ug/l

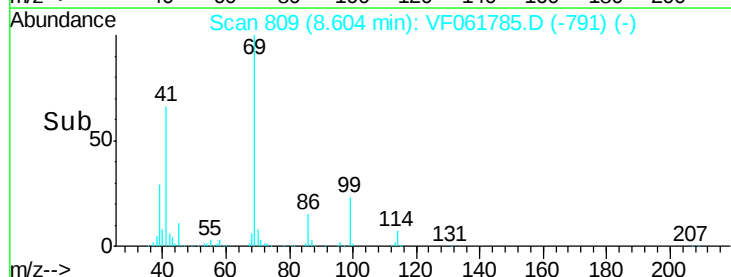
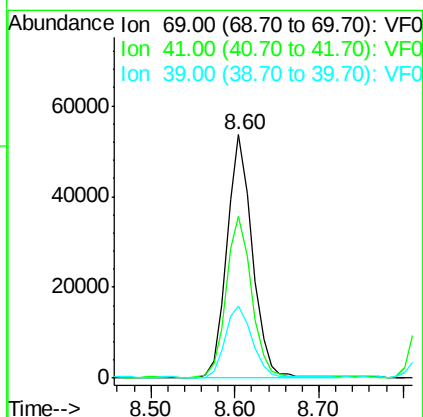
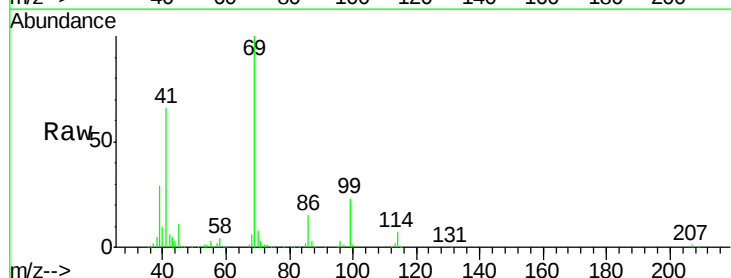
RT: 8.60 min Scan# 809

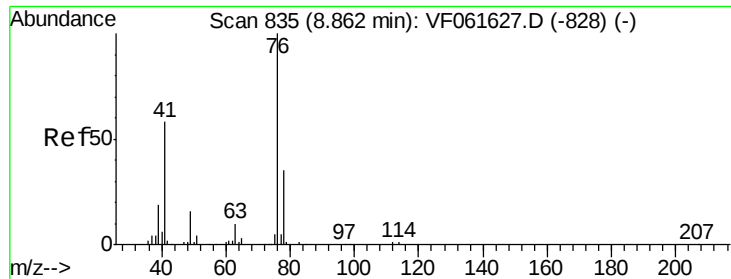
Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion:	69	Resp:	112716
Ion	Ratio	Lower	Upper
69	100		
41	66.4	52.9	79.3
39	29.4	24.5	36.7





#57

1,3-Dichloropropane

Concen: 46.335 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 162973

Ion Ratio Lower Upper

76 100

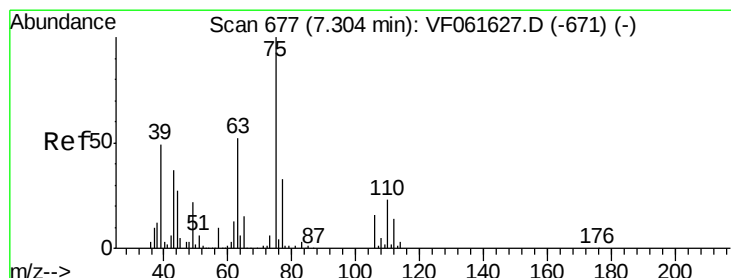
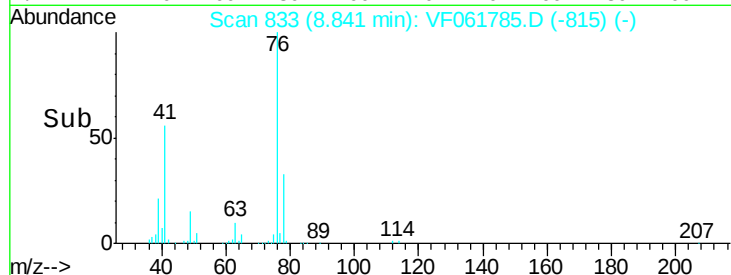
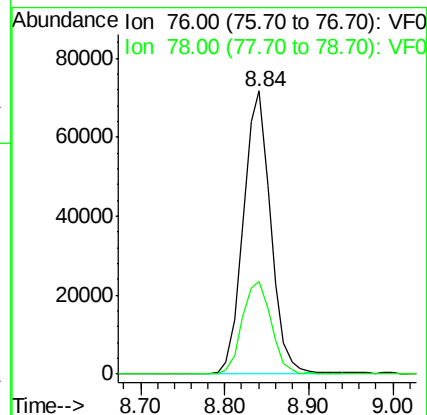
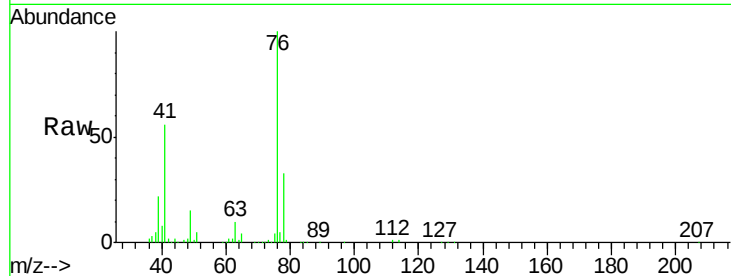
78 32.6 27.8 41.6

Manual Integrations

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3/2/2019 4:09:35 AM



#58

2-Chloroethyl Vinyl ether

Concen: 240.090 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061785.D

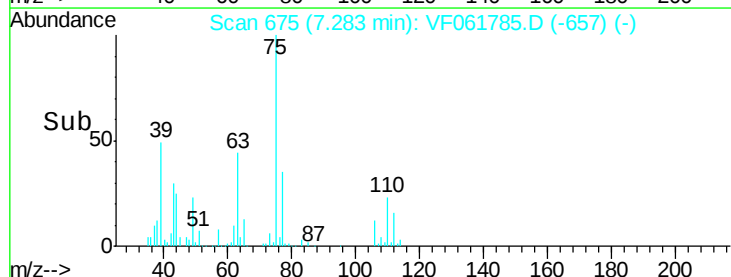
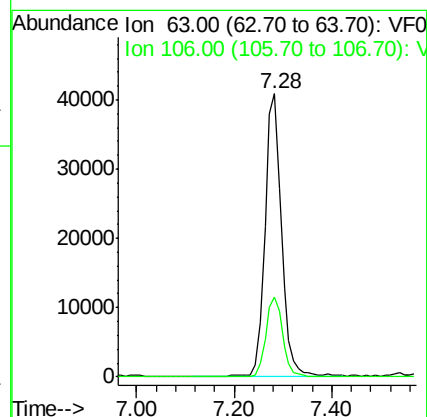
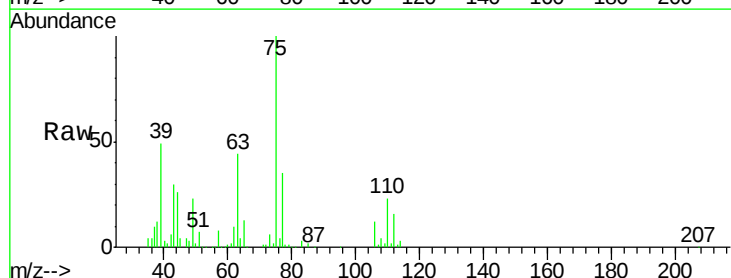
Acq: 28 Feb 2019 12:20

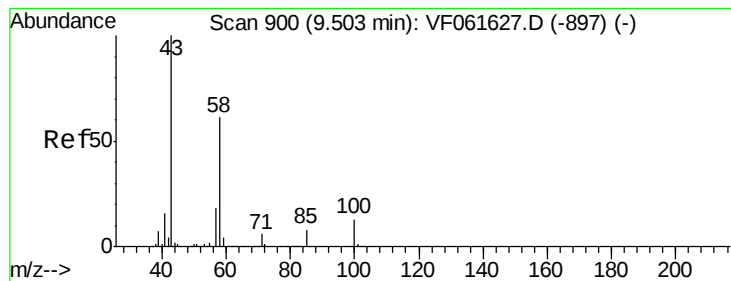
Tgt Ion: 63 Resp: 97187

Ion Ratio Lower Upper

63 100

106 28.0 24.6 36.8





#59

2-Hexanone

Concen: 231.731 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 288508

Ion Ratio Lower Upper

43 100

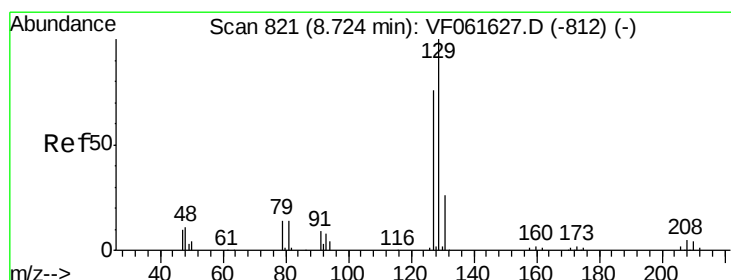
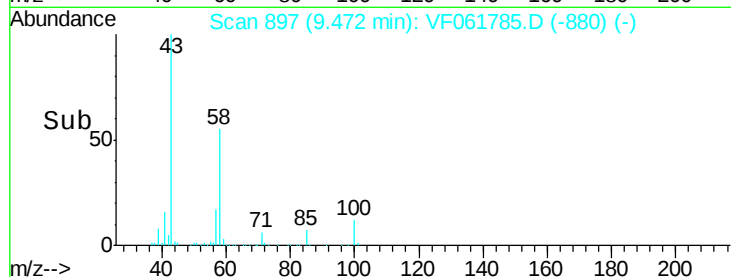
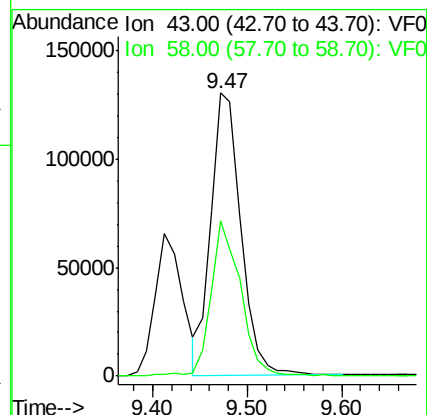
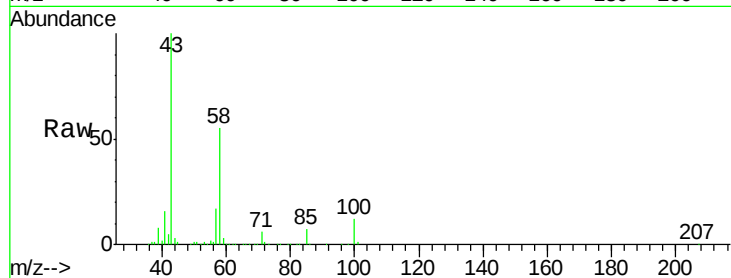
58 55.0 28.5 85.5

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#60

Dibromochloromethane

Concen: 50.906 ug/l

RT: 8.70 min Scan# 819

Delta R.T. -0.02 min

Lab File: VF061785.D

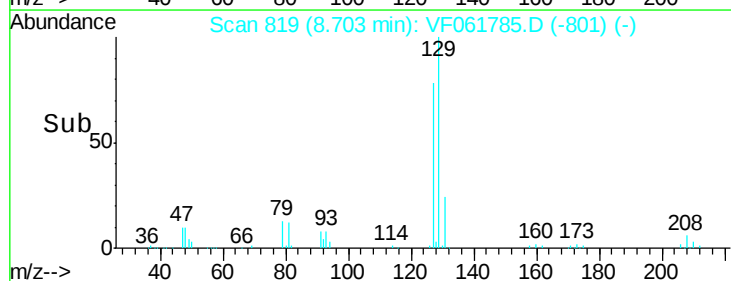
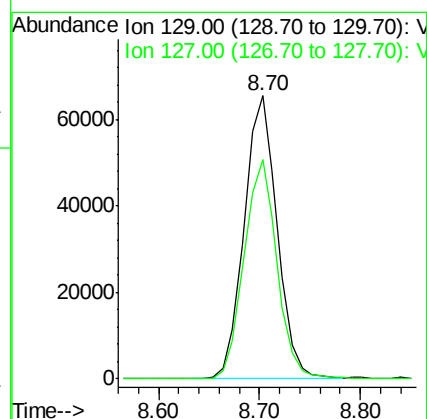
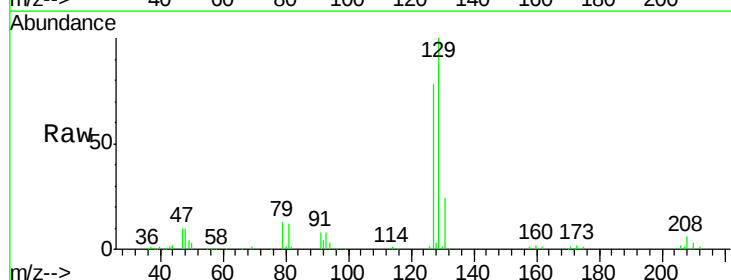
Acq: 28 Feb 2019 12:20

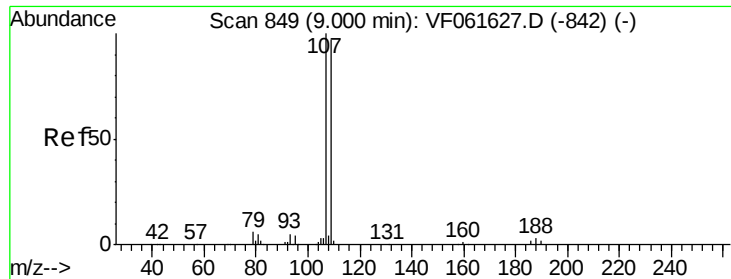
Tgt Ion: 129 Resp: 149309

Ion Ratio Lower Upper

129 100

127 77.7 37.8 113.4





#61

1,2-Dibromoethane

Concen: 51.148 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 116903

Ion Ratio Lower Upper

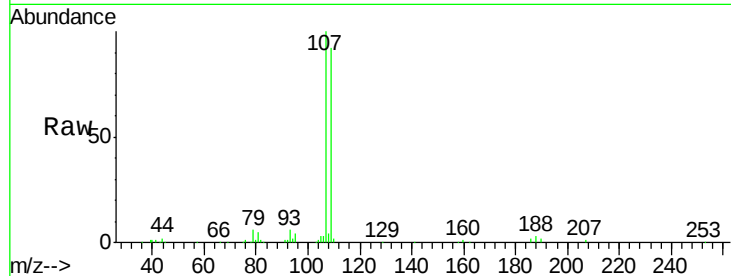
107 100

109 91.9 77.4 116.0

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.97

60000

50000

40000

30000

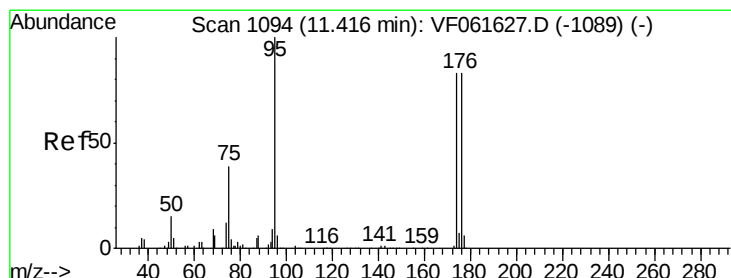
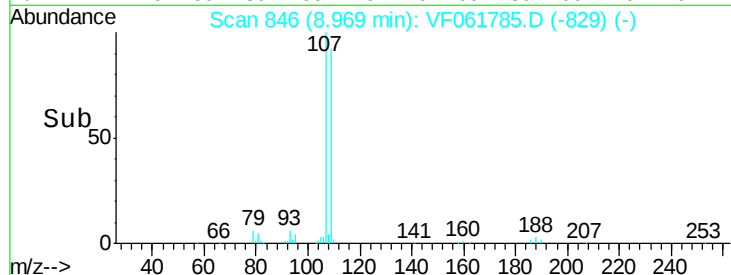
20000

10000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 49.338 ug/l

RT: 11.39 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

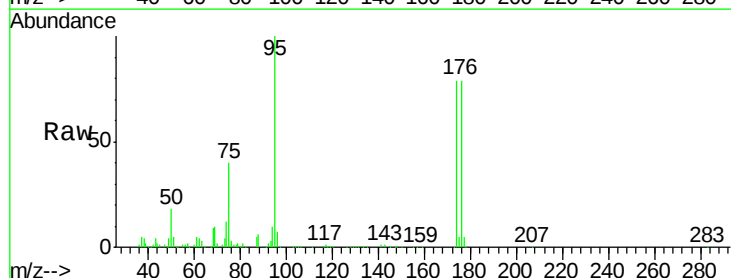
Tgt Ion: 95 Resp: 194504

Ion Ratio Lower Upper

95 100

174 79.0 0.0 165.8

176 78.5 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

150000

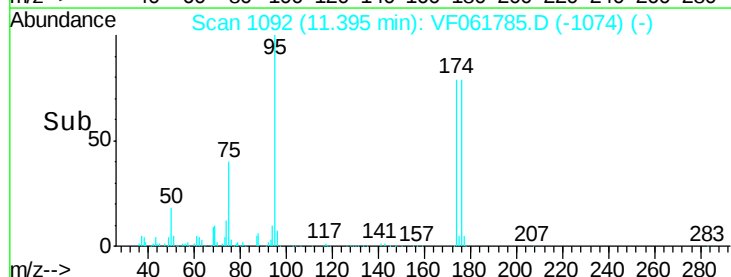
100000

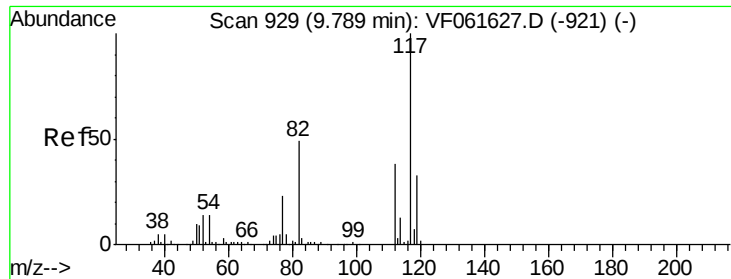
50000

0

Time-->

11.30 11.40 11.50





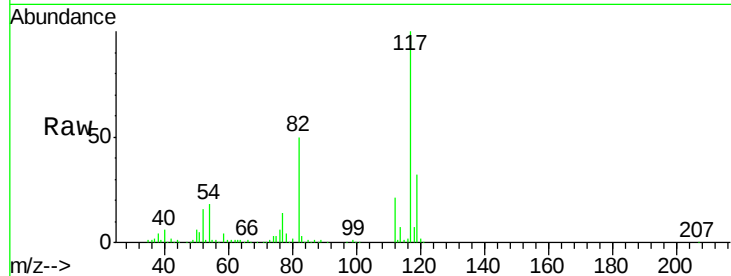
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	381629		
82	50.1		39.3	58.9
119	32.2		26.6	40.0

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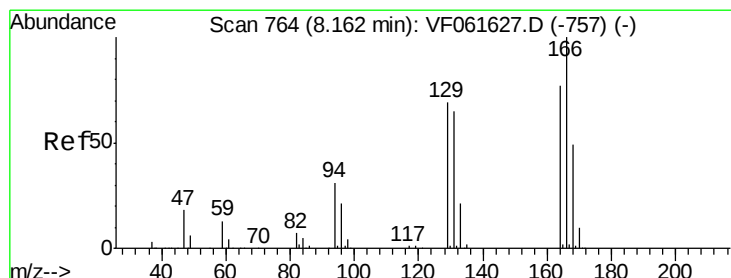
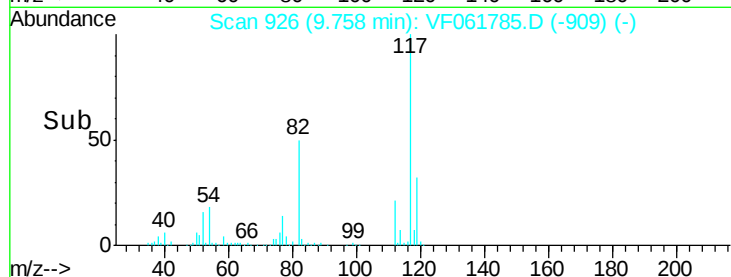
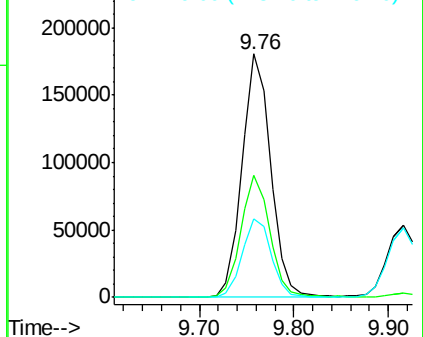


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#64
Tetrachloroethene
Concen: 52.166 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	162727		
166	124.6		103.9	155.9
129	85.6		71.3	106.9
131	87.2		67.1	100.7

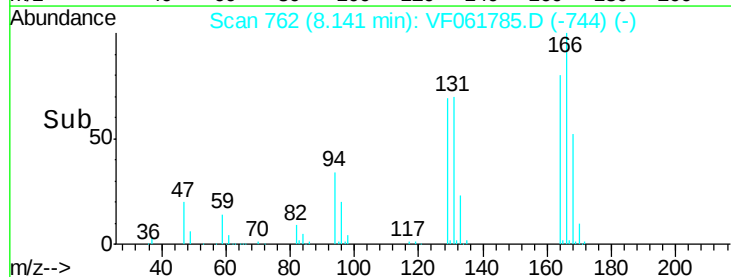
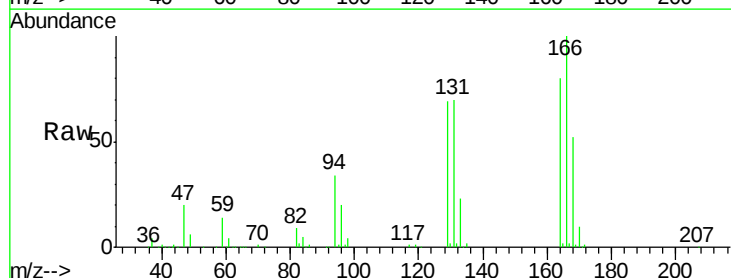
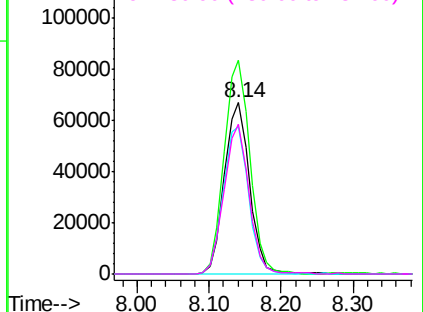
Abundance

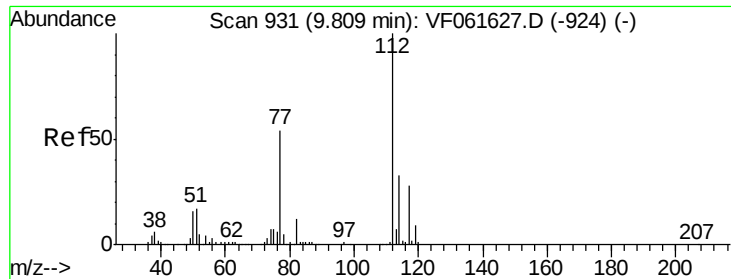
Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





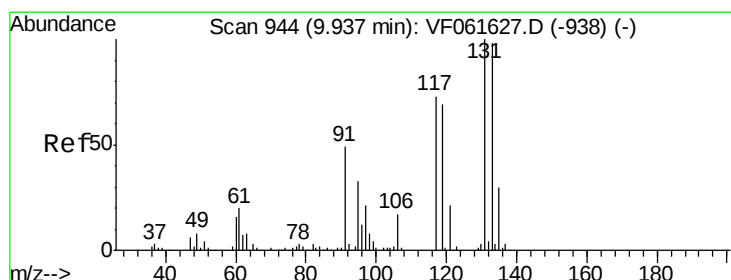
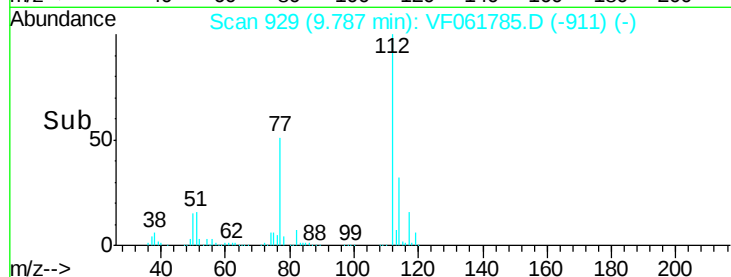
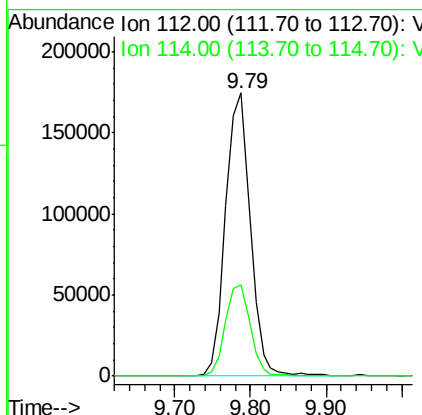
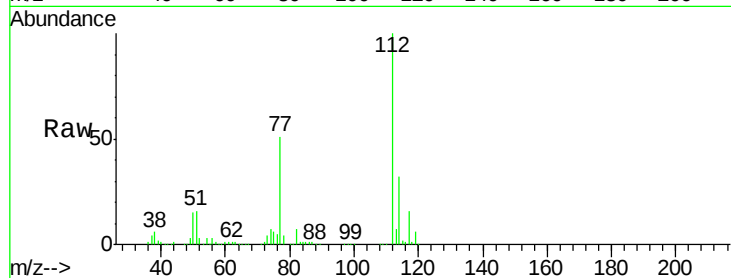
#65
Chlorobenzene
Concen: 51.315 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
112	100	397391		
114	32.3	26.2	39.2	

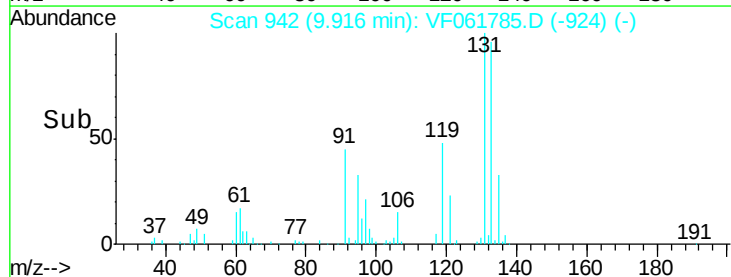
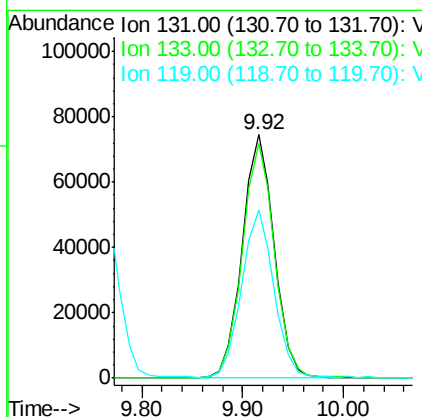
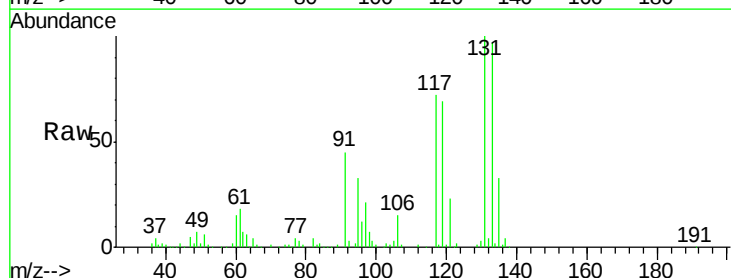
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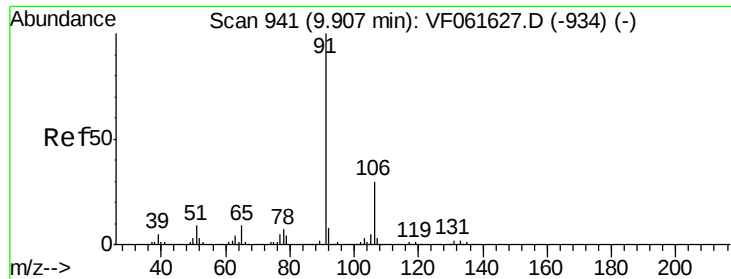
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#66
1,1,1,2-Tetrachloroethane
Concen: 54.094 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	164150		
133	96.5	48.9	146.6	
119	69.2	34.8	104.3	





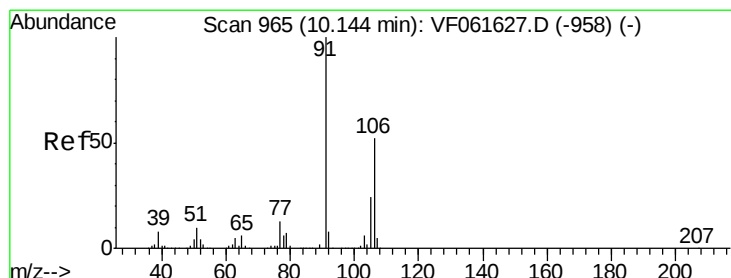
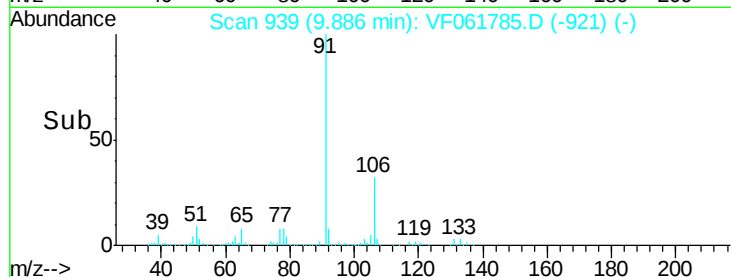
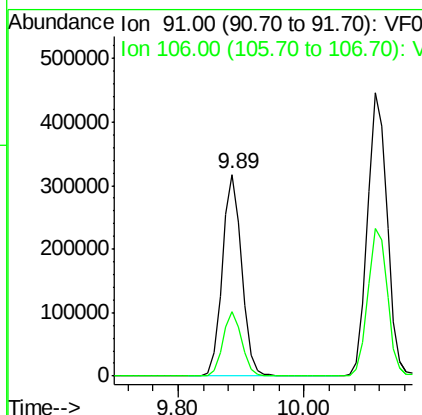
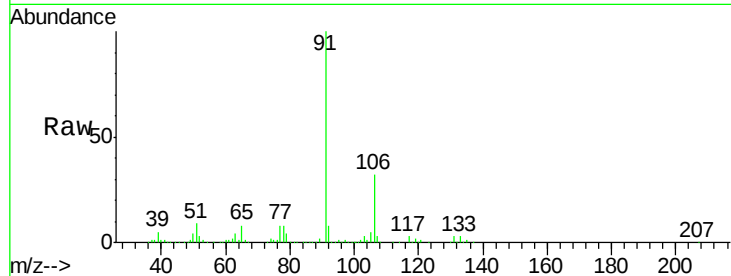
#67
Ethyl Benzene
Concen: 53.015 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 682753
Ion Ratio Lower Upper
91 100
106 31.7 24.1 36.1

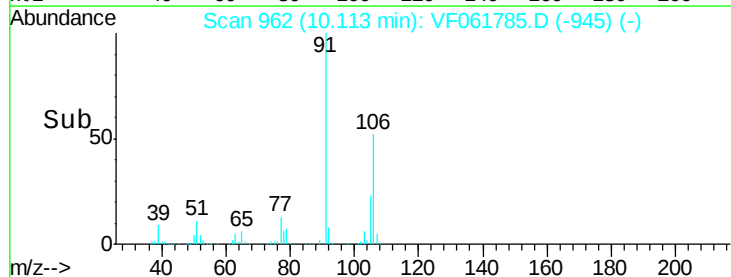
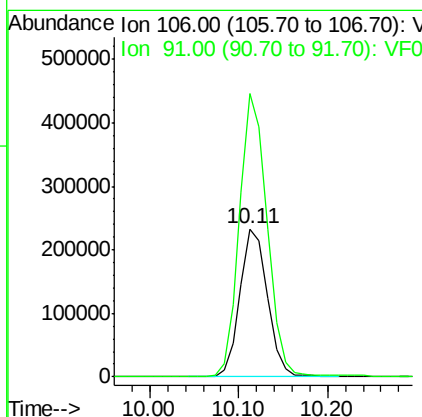
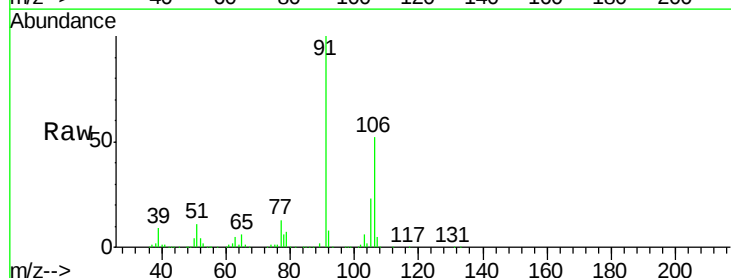
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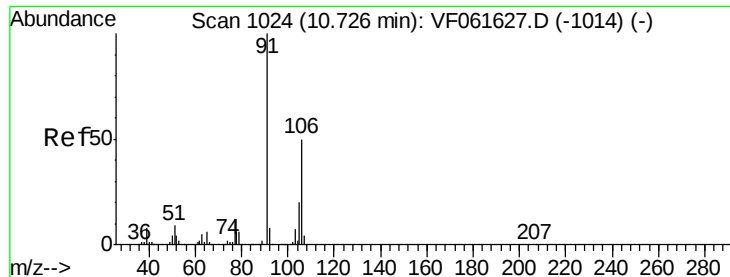
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#68
m/p-Xylenes
Concen: 101.797 ug/l
RT: 10.11 min Scan# 962
Delta R.T. -0.03 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion: 106 Resp: 501730
Ion Ratio Lower Upper
106 100
91 191.0 153.0 229.6





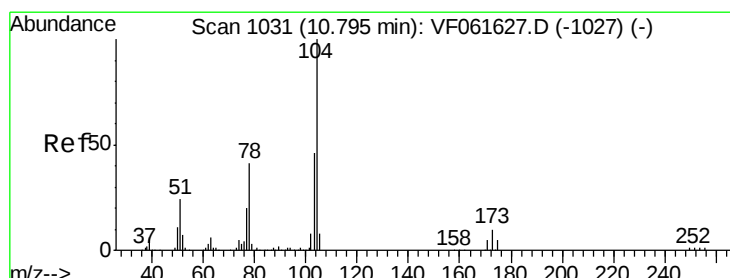
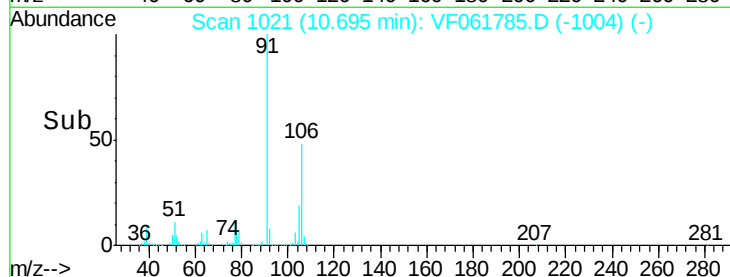
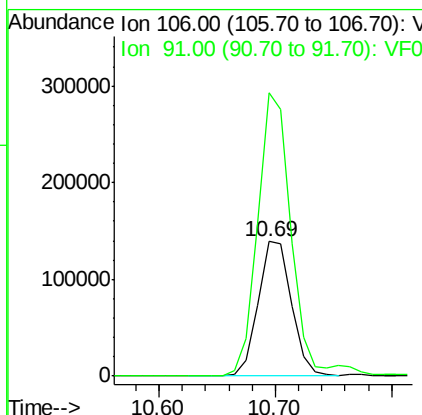
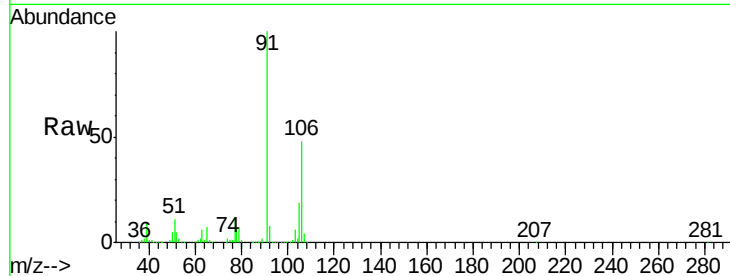
#69
o-Xylene
Concen: 52.763 ug/l
RT: 10.69 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		277495		
91	210.0	100.1	300.1		

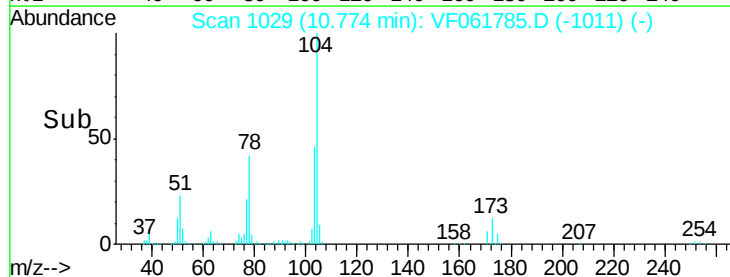
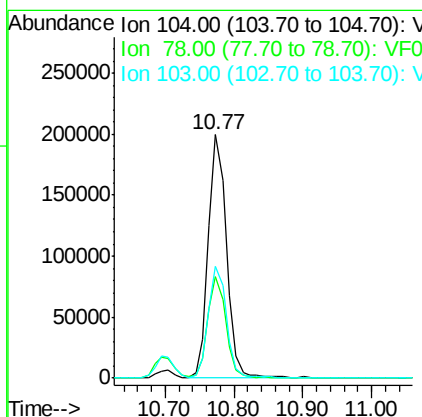
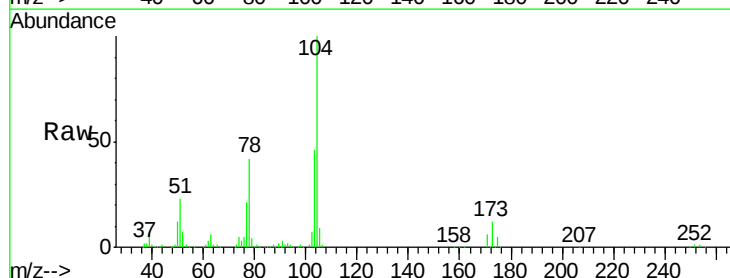
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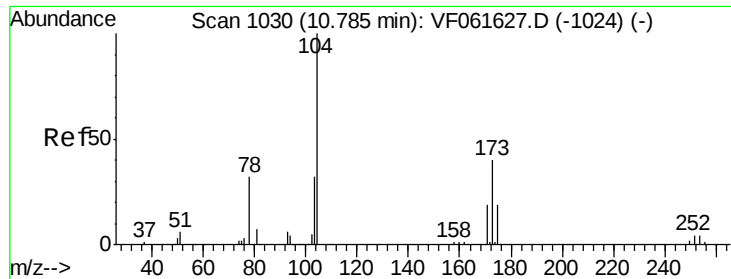
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#70
Styrene
Concen: 49.542 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		368598		
78	41.5	33.2	49.8		
103	45.8	37.2	55.8		





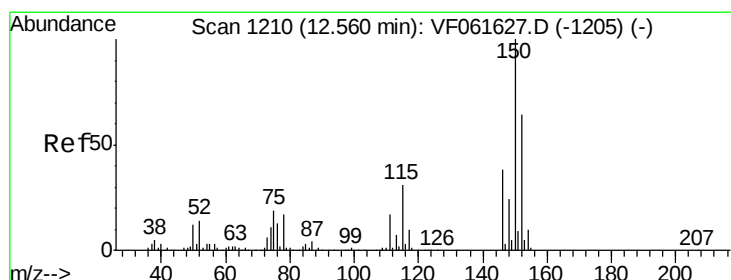
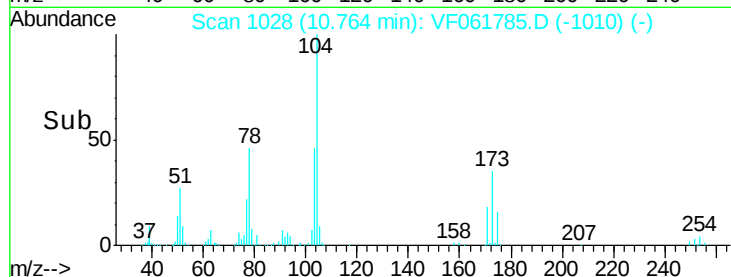
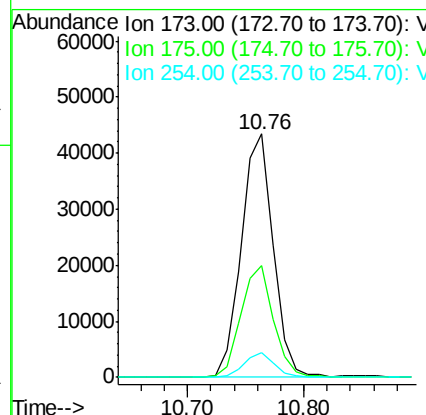
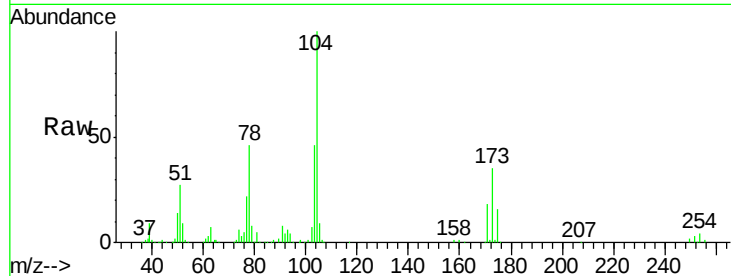
#71
Bromoform
Concen: 50.315 ug/l
RT: 10.76 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	45.9	24.0	72.0
254	10.1	8.2	12.2

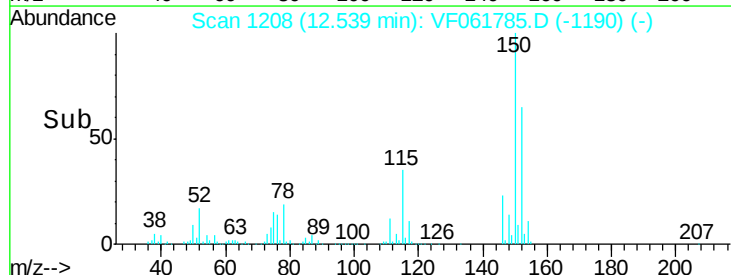
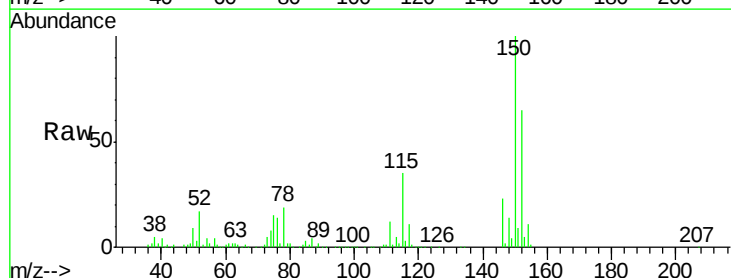
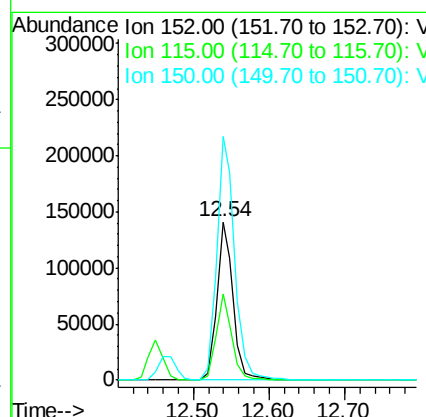
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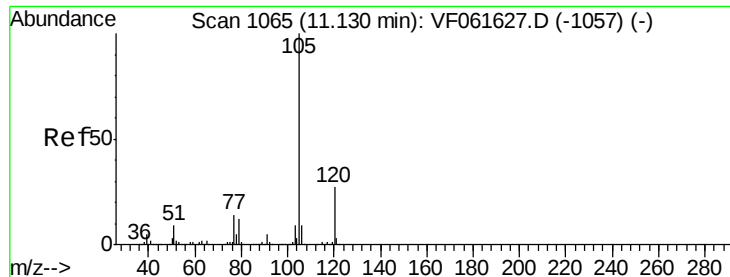
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	24.3	72.8
150	154.1	0.0	312.0





#73

Isopropylbenzene

Concen: 51.615 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 784182

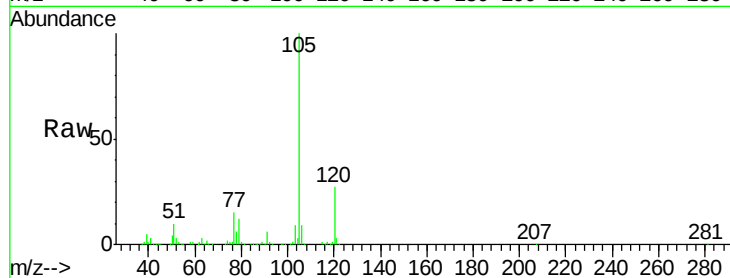
Ion Ratio Lower Upper

105 100

120 27.1 13.4 40.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

400000

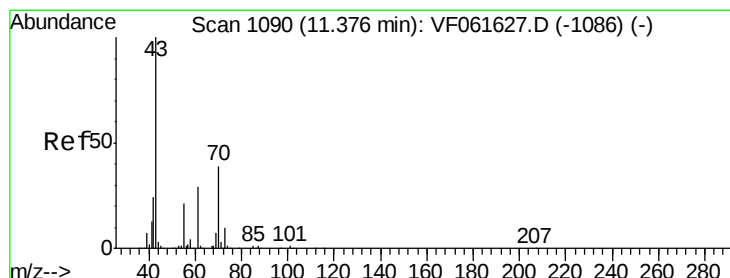
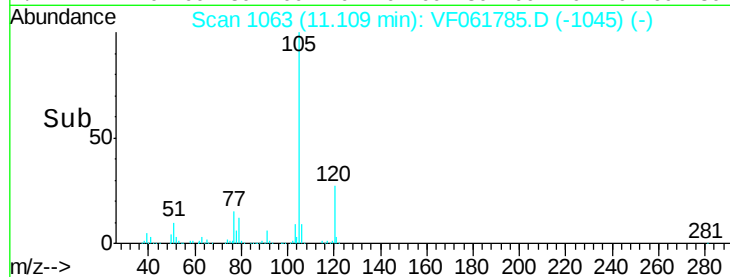
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 49.218 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion: 43 Resp: 179480

Ion Ratio Lower Upper

43 100

70 44.8 31.5 47.3

55 22.9 16.7 25.1

61 30.0 23.0 34.6

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

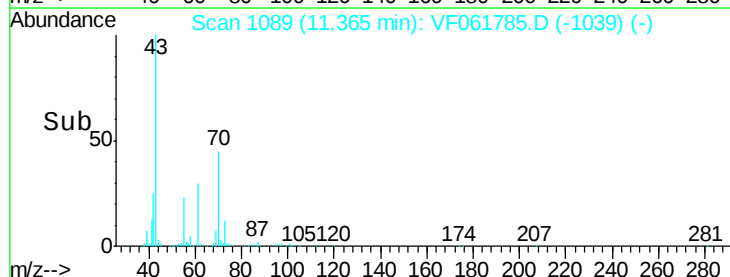
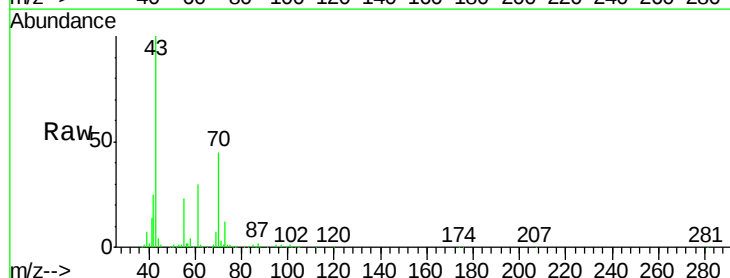
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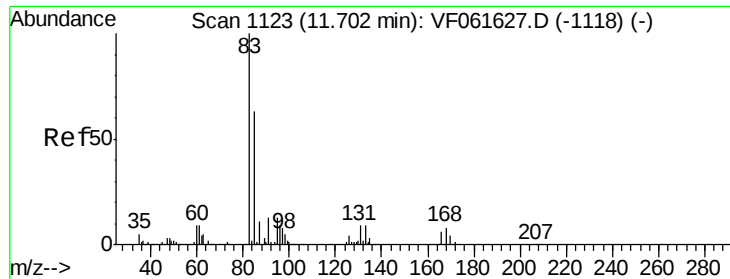
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 47.296 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

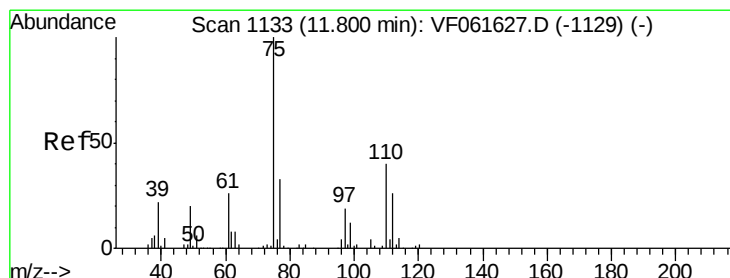
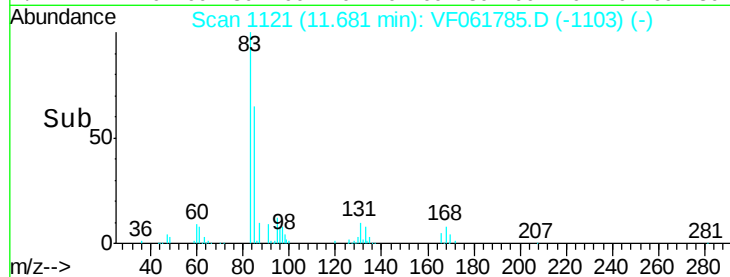
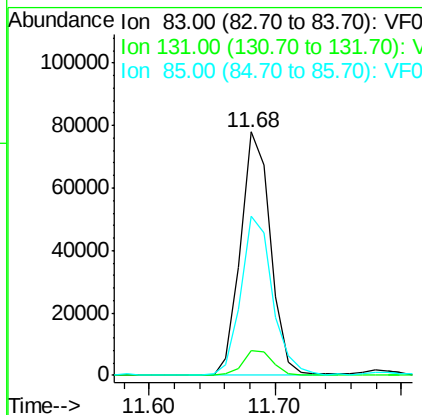
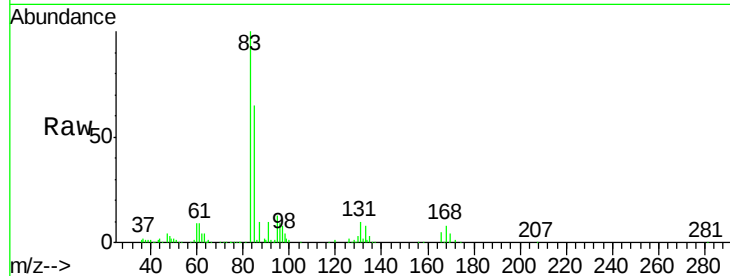
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	128731
Ion Ratio	Lower	Upper	
83	100		
131	10.2	4.4	13.2
85	65.3	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 45.595 ug/l

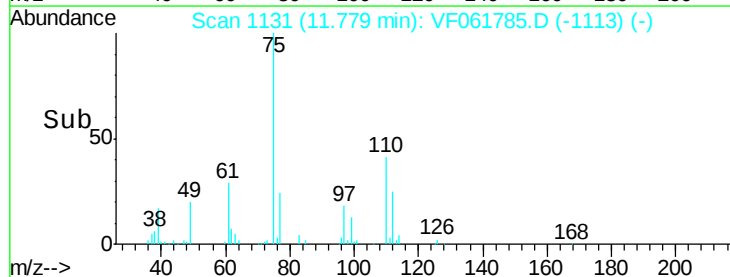
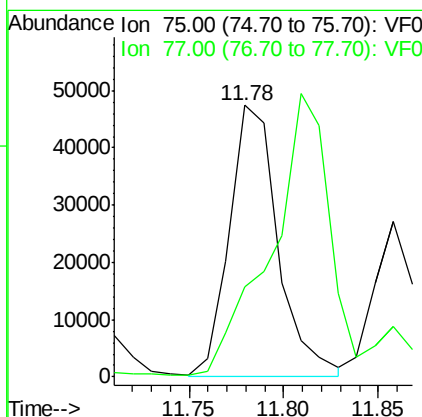
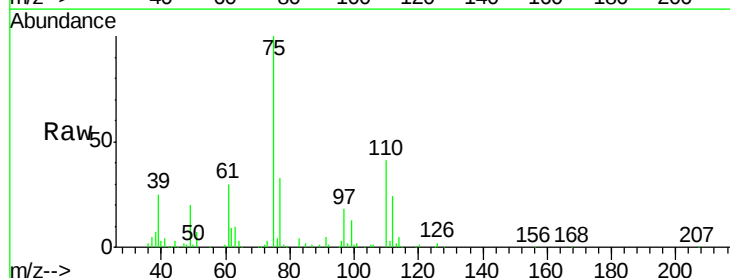
RT: 11.78 min Scan# 1131

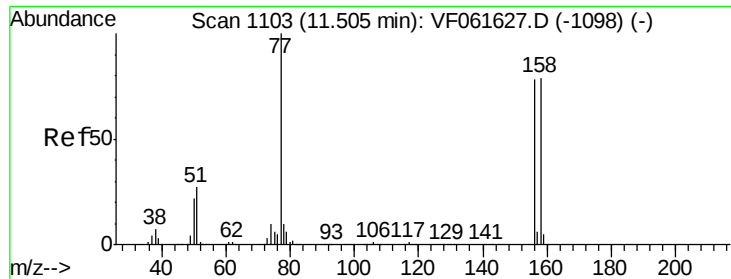
Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion:	75	Resp:	84375
Ion Ratio	Lower	Upper	
75	100		
77	33.0	16.6	49.7





#77

Bromobenzene

Concen: 49.242 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

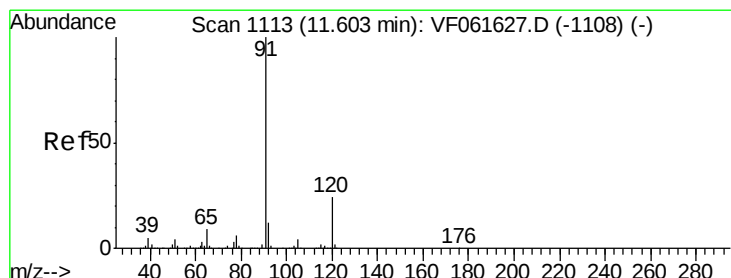
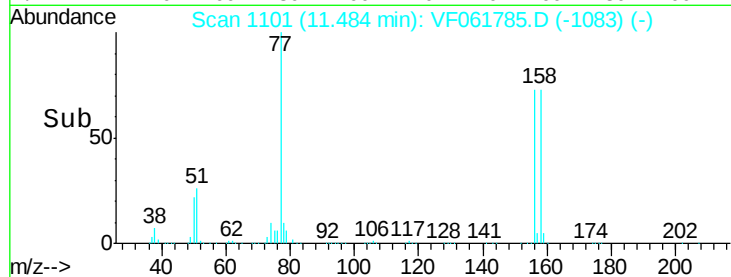
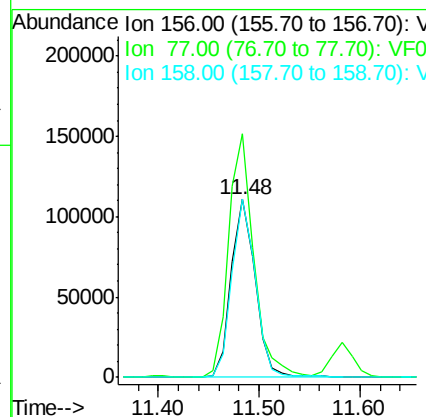
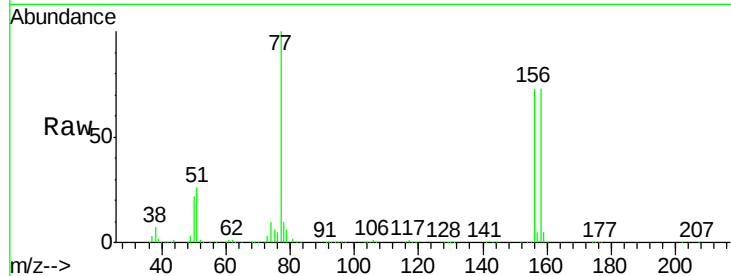
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	184821
Ion Ratio	Lower	Upper	
156	100		
77	136.7	64.3	192.7
158	100.1	50.9	152.7

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#78

n-propylbenzene

Concen: 51.303 ug/l

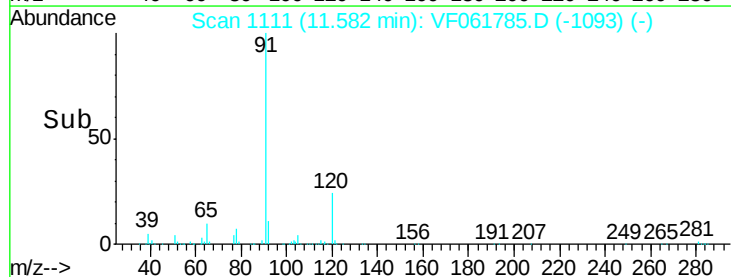
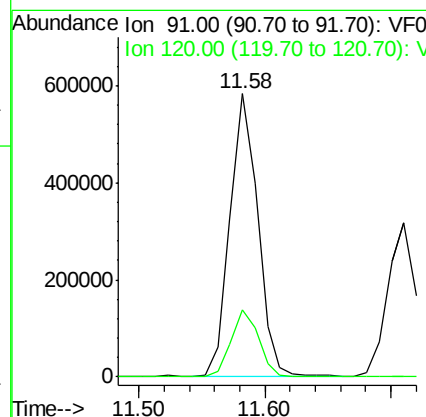
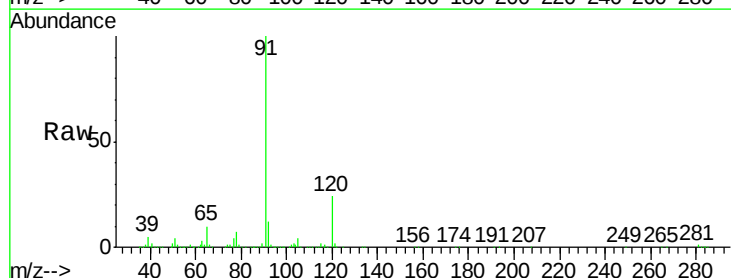
RT: 11.58 min Scan# 1111

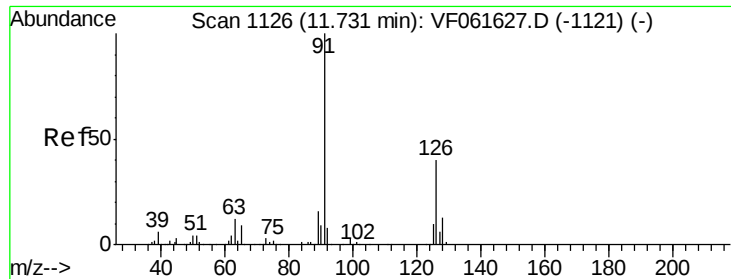
Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion:	91	Resp:	894429
Ion Ratio	Lower	Upper	
91	100		
120	23.5	12.1	36.3





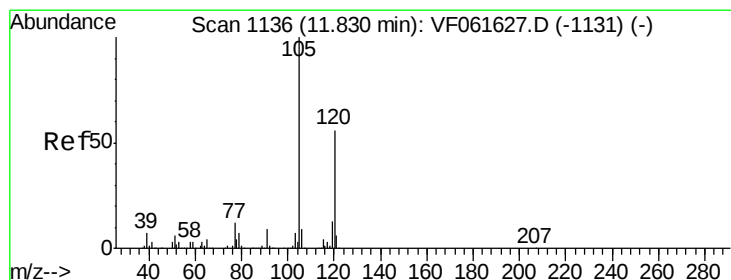
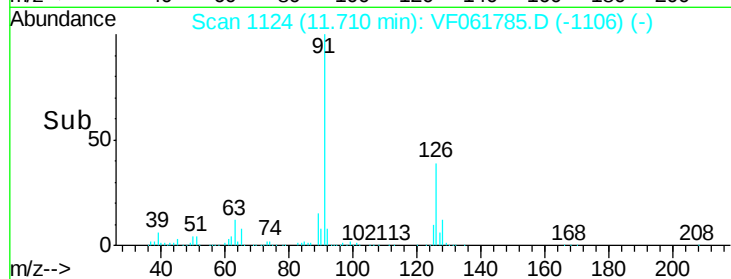
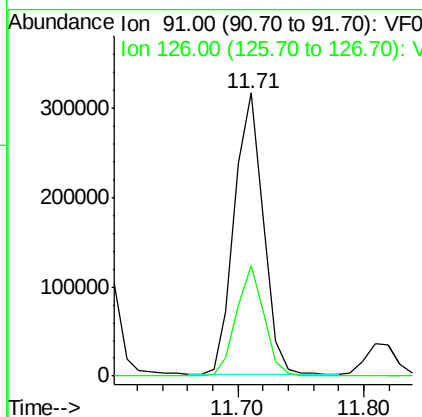
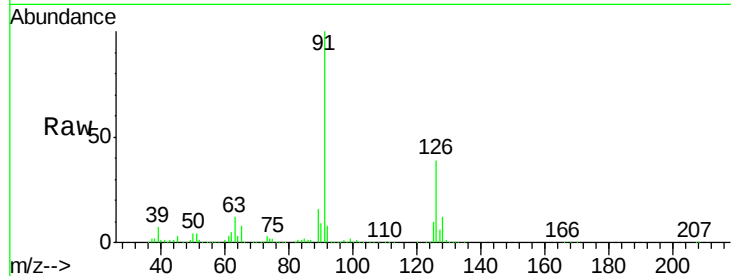
#79
 2-Chlorotoluene
 Concen: 50.795 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.02 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		495960		
126	39.1		19.8	59.4	

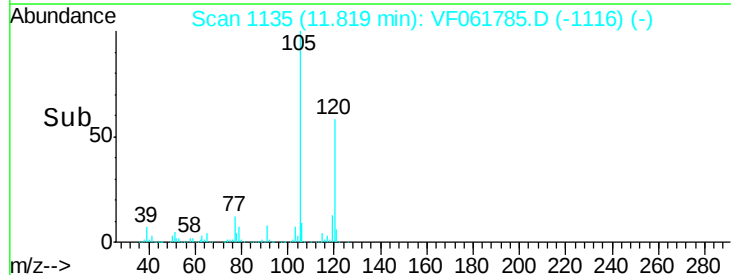
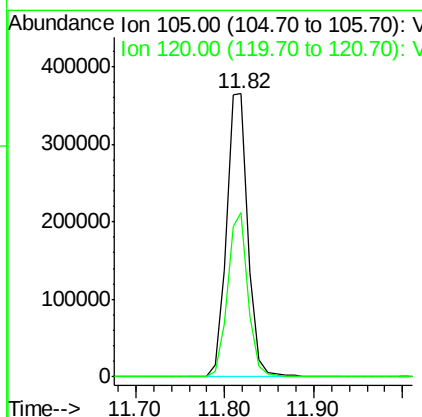
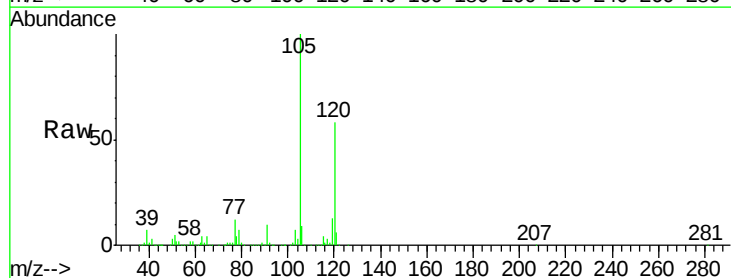
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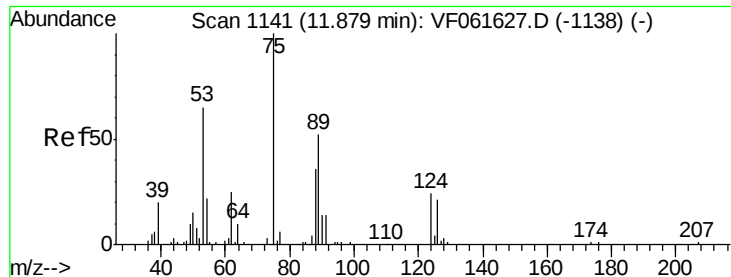
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#80
 1,3,5-Trimethylbenzene
 Concen: 51.290 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		622790		
120	58.1		27.9	83.6	





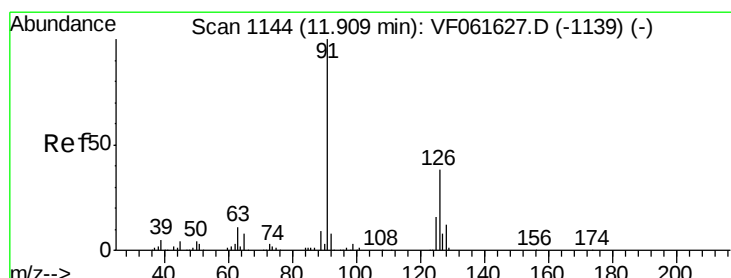
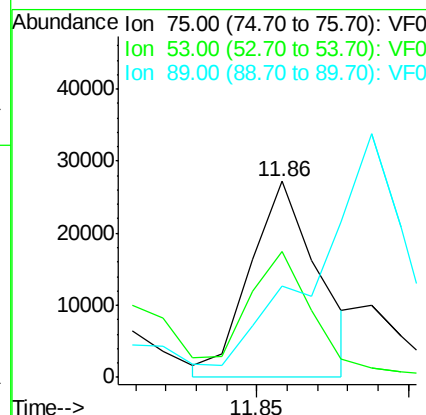
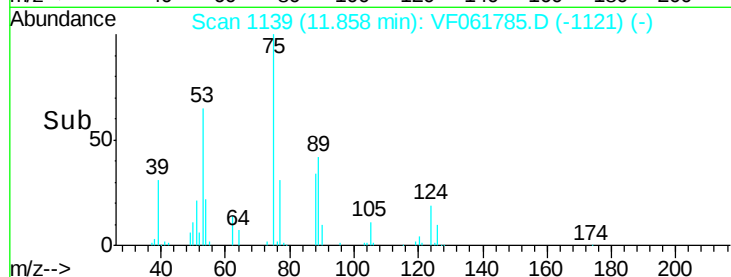
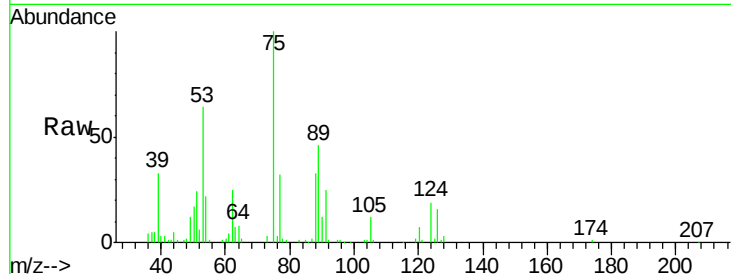
#81
trans-1,4-Dichloro-2-butene
Concen: 48.252 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	64.5	53.7	80.5
89	46.5	41.6	62.4

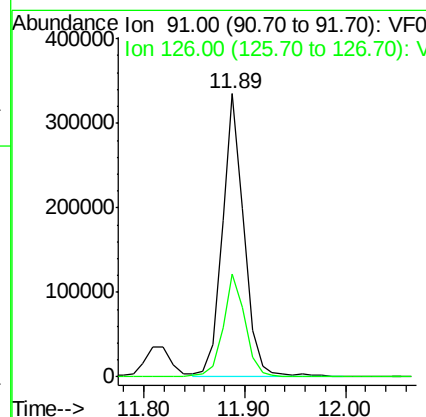
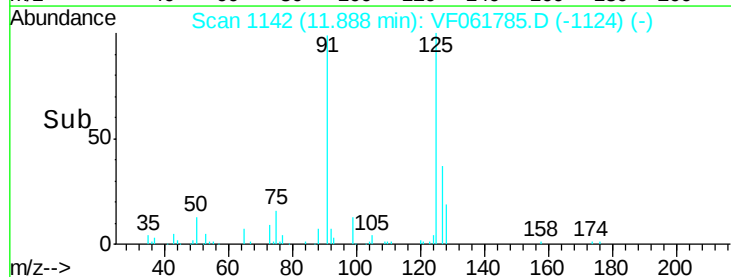
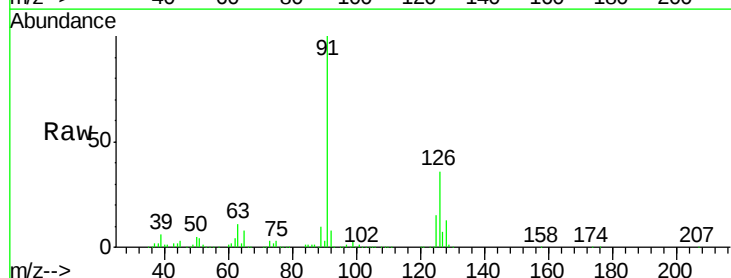
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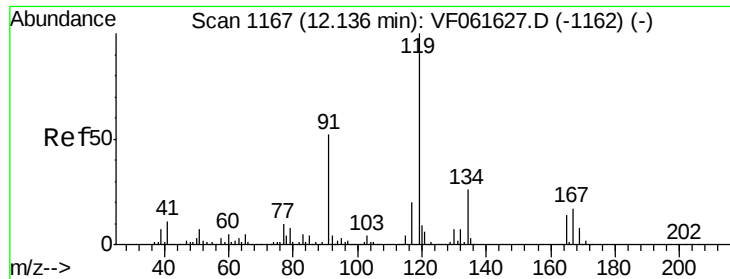
MMDadoda
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#82
4-Chlorotoluene
Concen: 49.031 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.4	19.1	57.1





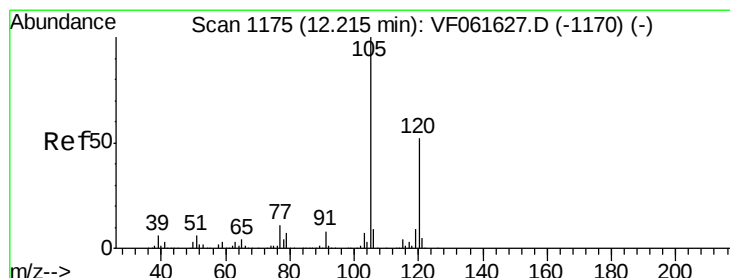
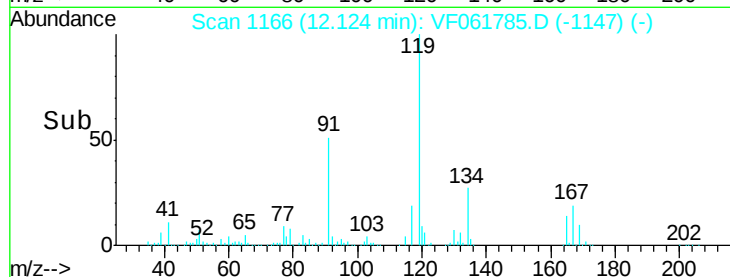
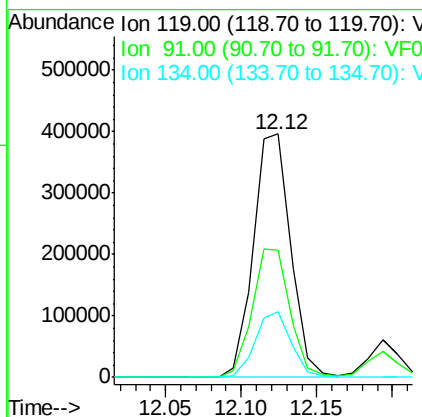
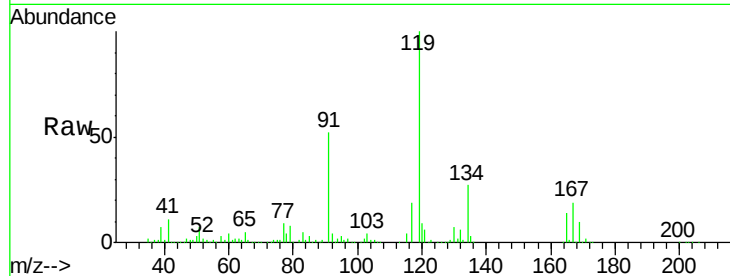
#83
tert-Butylbenzene
Concen: 50.942 ug/l
RT: 12.12 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	685138		
91	52.0	26.3	78.8	
134	26.9	12.9	38.7	

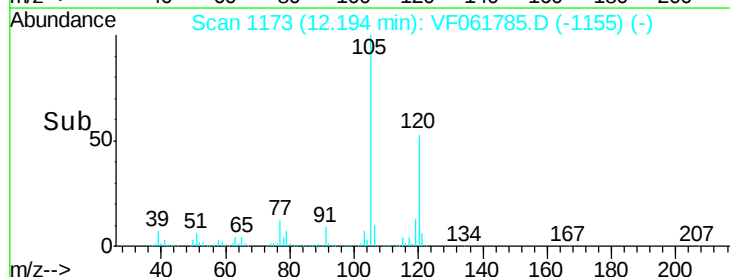
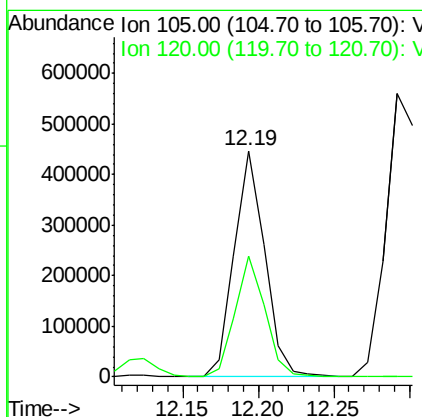
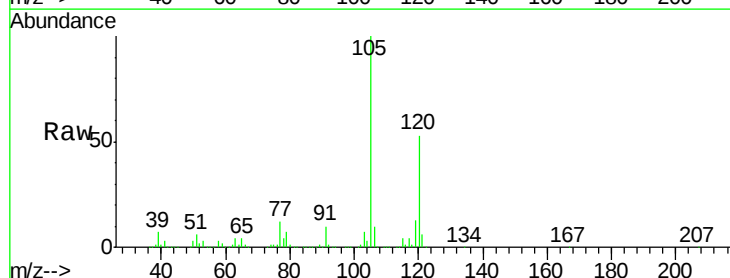
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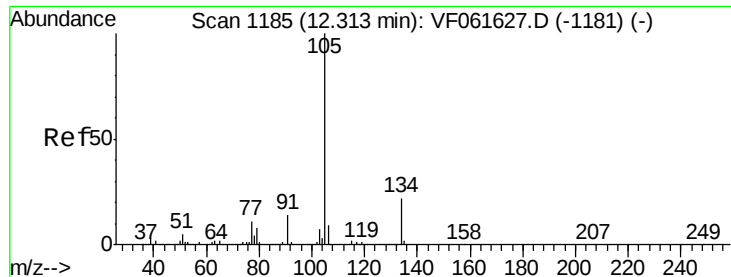
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#84
1,2,4-Trimethylbenzene
Concen: 52.297 ug/l
RT: 12.19 min Scan# 1173
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	630890		
120	53.2	26.1	78.3	





#85

sec-Butylbenzene

Concen: 51.542 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 896418

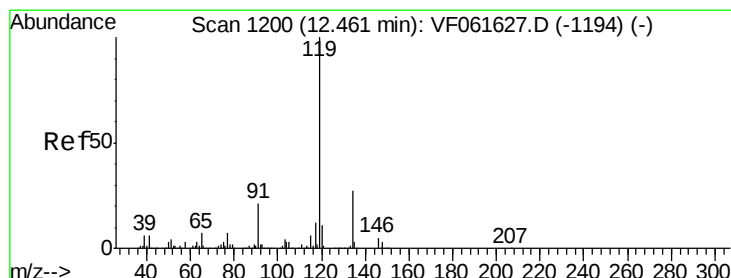
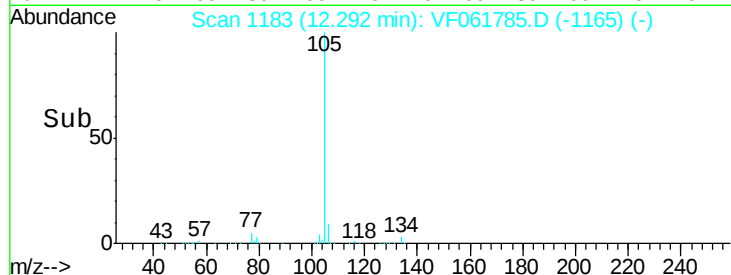
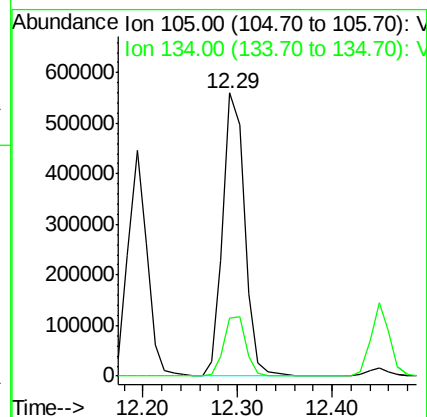
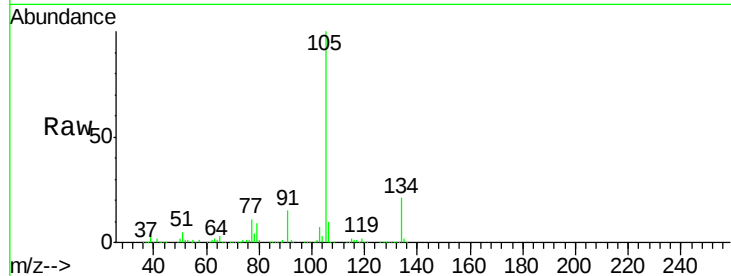
Ion Ratio Lower Upper

105 100

134 20.7 10.8 32.4

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#86

p-Isopropyltoluene

Concen: 51.607 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

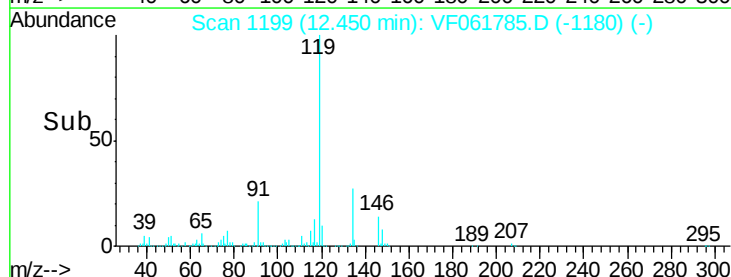
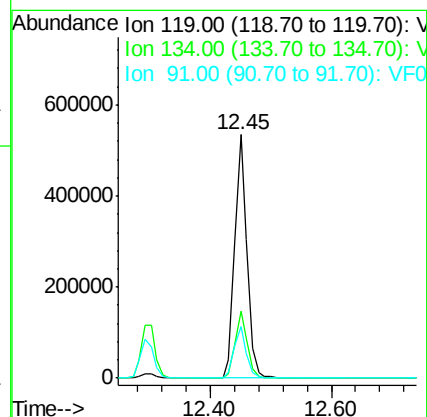
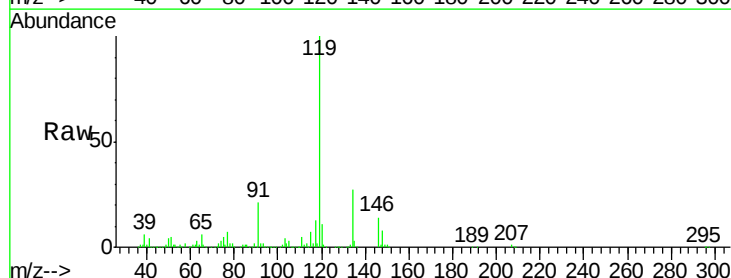
Tgt Ion:119 Resp: 753266

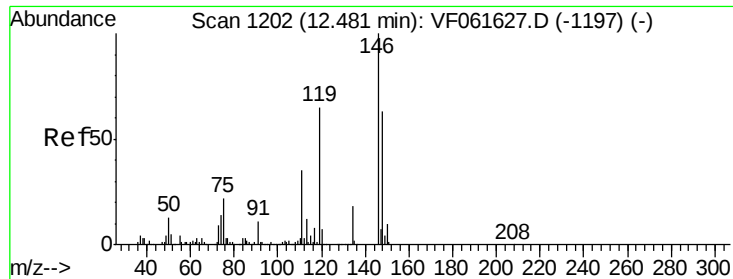
Ion Ratio Lower Upper

119 100

134 27.3 13.7 41.1

91 21.2 10.8 32.4





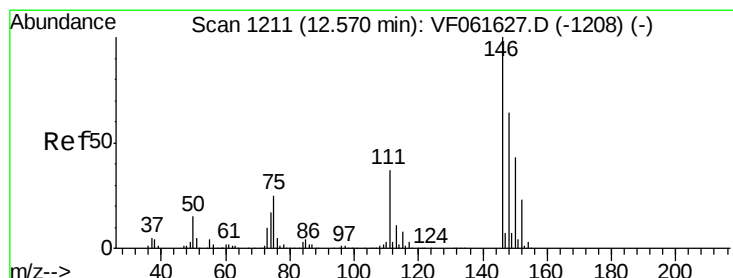
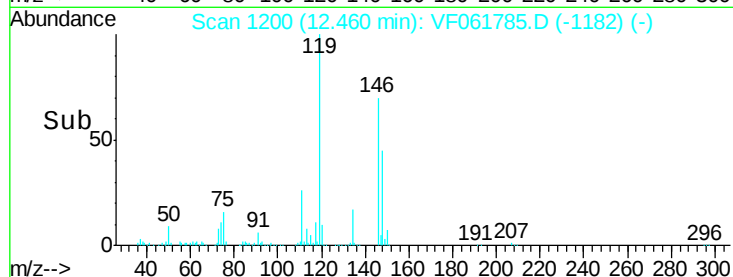
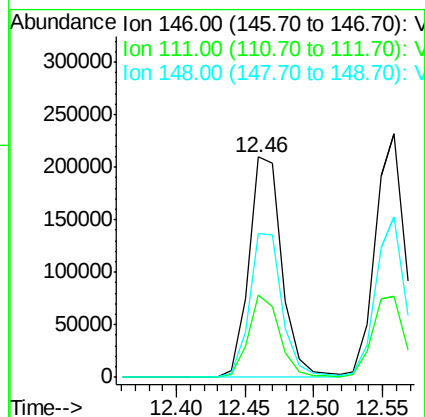
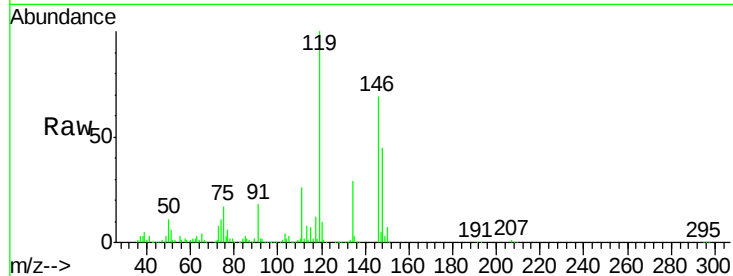
#87
 1,3-Dichlorobenzene
 Concen: 48.240 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	17.5	52.6
148	65.0	31.4	94.3

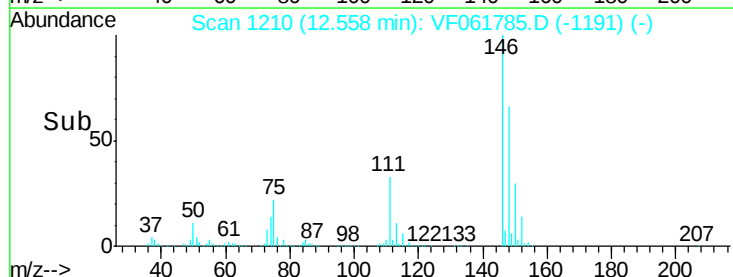
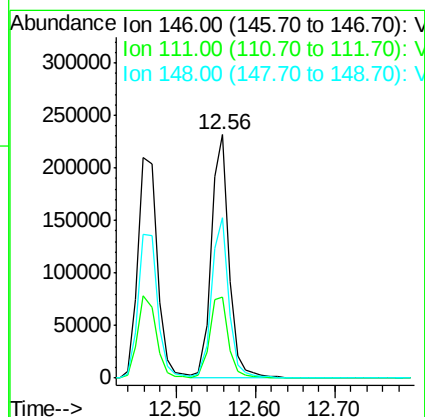
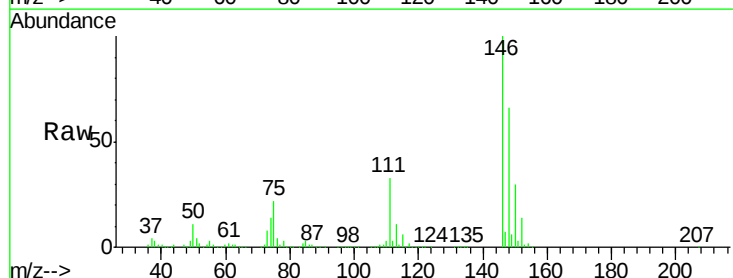
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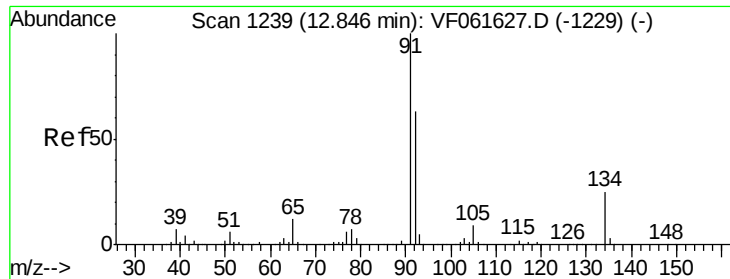
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#88
 1,4-Dichlorobenzene
 Concen: 51.471 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.0	18.4	55.4
148	65.7	32.2	96.6





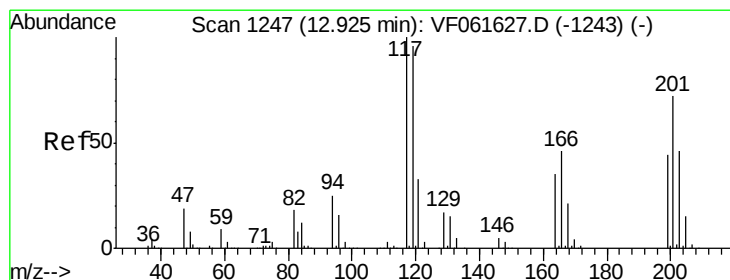
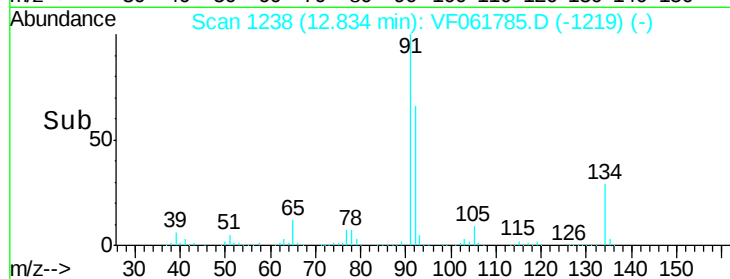
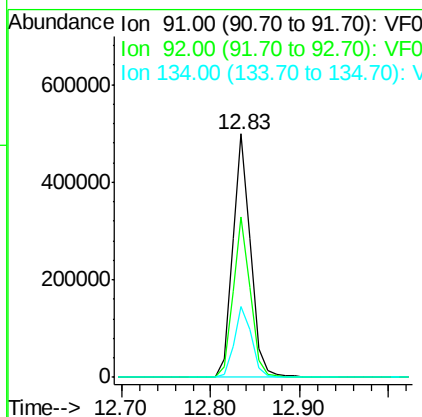
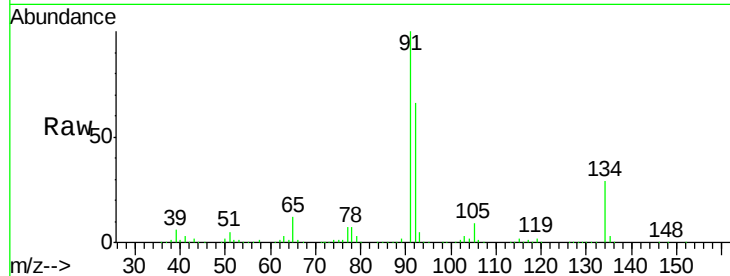
#89
n-Butylbenzene
Concen: 51.028 ug/l
RT: 12.83 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	703318		
92	65.6		31.4	94.3
134	29.3		12.3	36.9

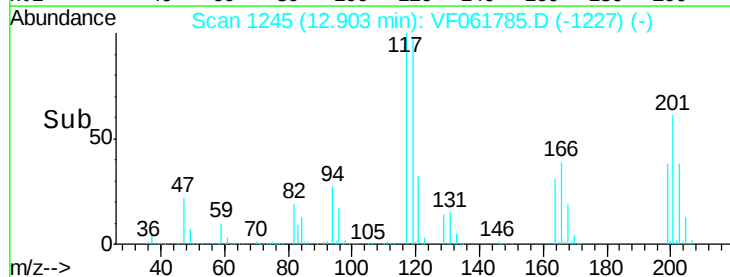
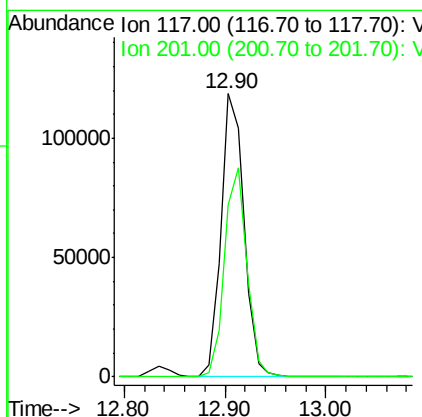
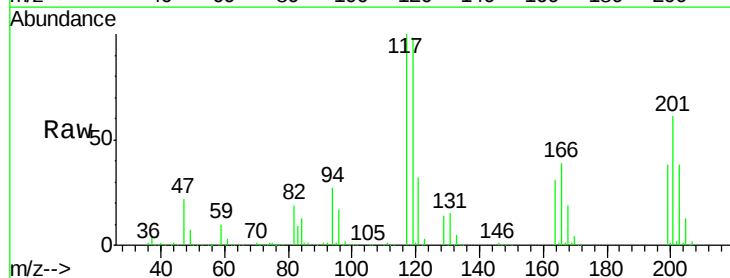
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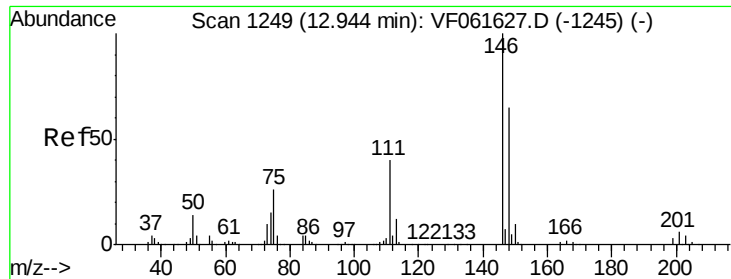
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#90
Hexachloroethane
Concen: 55.842 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	189566		
201	60.9		36.2	108.6





#91

1,2-Dichlorobenzene

Concen: 48.564 ug/l

RT: 12.93 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Instrument :

MSVOA_F

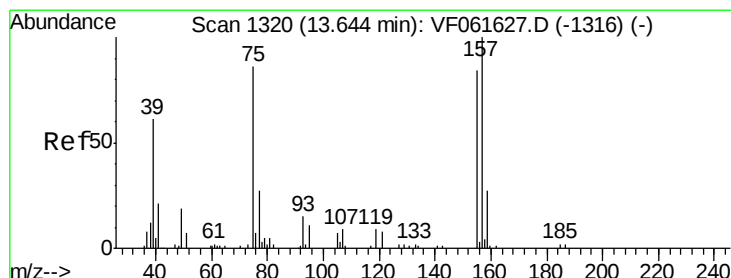
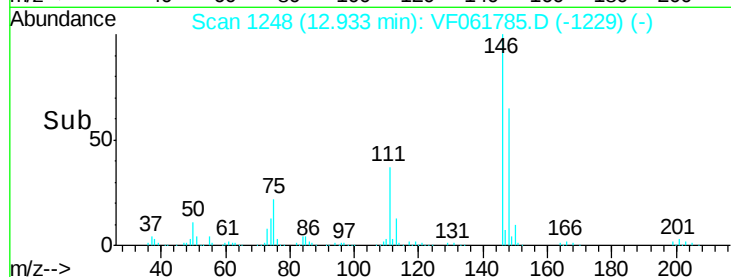
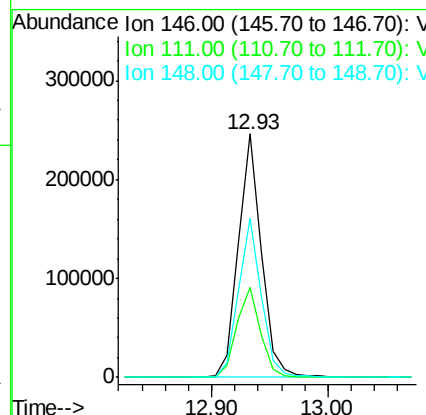
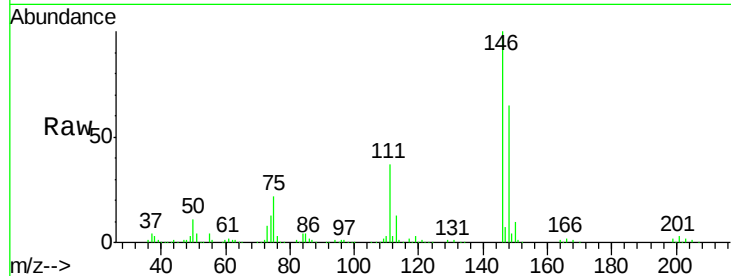
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	337989
Ion Ratio		Lower	Upper
146	100		
111	37.2	20.2	60.5
148	65.5	32.3	96.9

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 45.588 ug/l

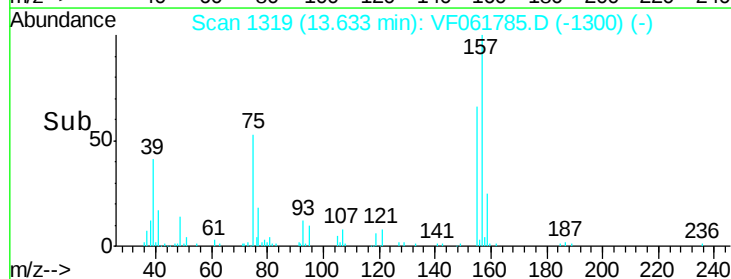
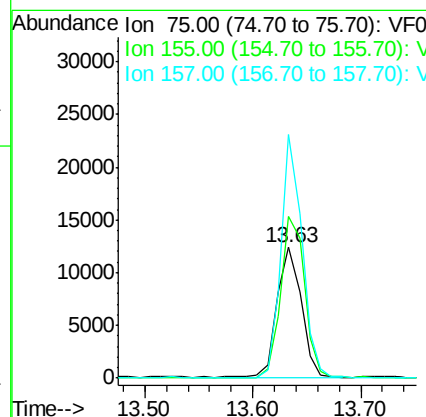
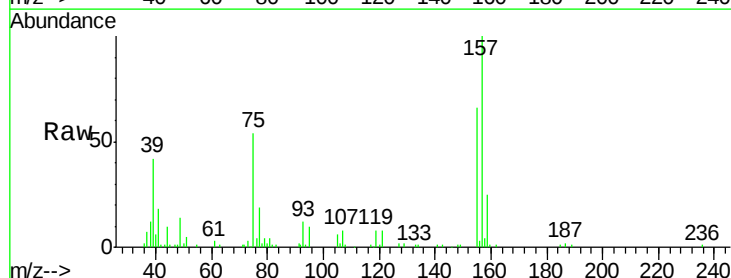
RT: 13.63 min Scan# 1319

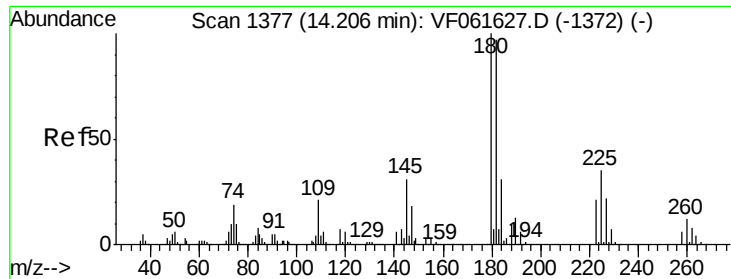
Delta R.T. -0.01 min

Lab File: VF061785.D

Acq: 28 Feb 2019 12:20

Tgt Ion:	75	Resp:	19673
Ion Ratio		Lower	Upper
75	100		
155	123.4	48.9	146.8
157	186.4	58.3	174.8#





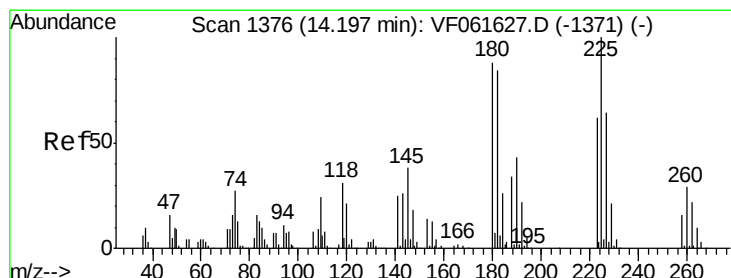
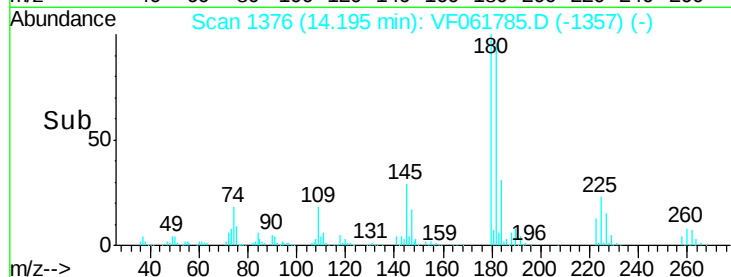
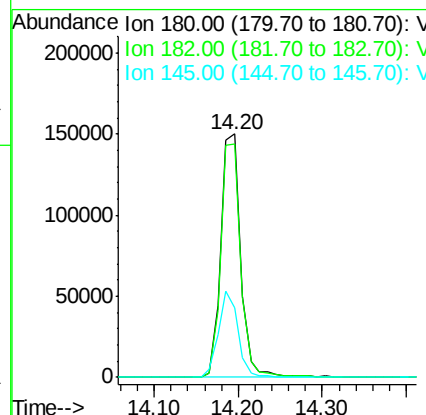
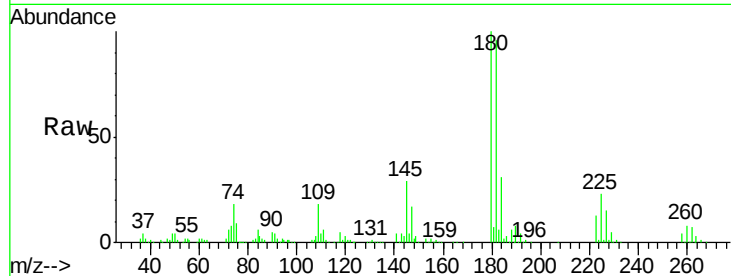
#93
 1,2,4-Trichlorobenzene
 Concen: 49.625 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	247557		
182	95.7	48.6	145.9	
145	28.5	15.3	45.9	

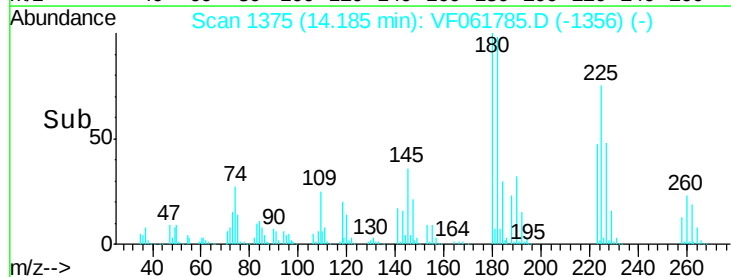
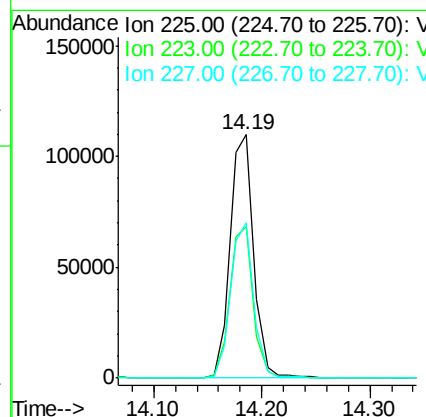
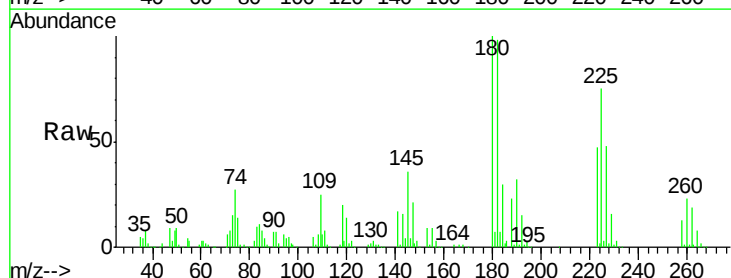
Manual Integrations
 APPROVED

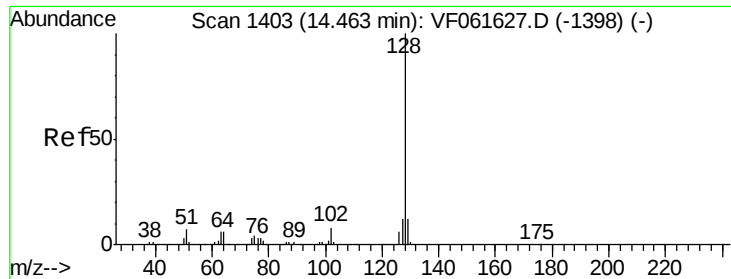
MMDadoda
 3/2/2019 4:09:35 AM



#94
 Hexachlorobutadiene
 Concen: 54.160 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061785.D
 Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	166864		
223	62.2	30.9	92.7	
227	64.0	32.1	96.3	





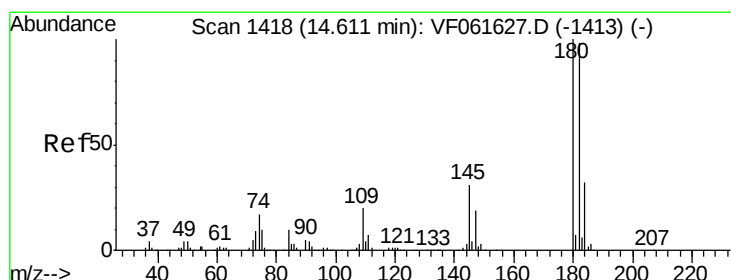
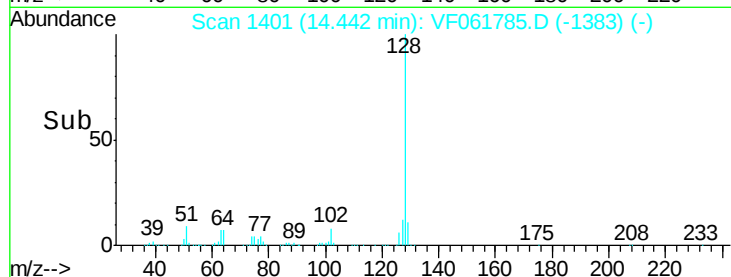
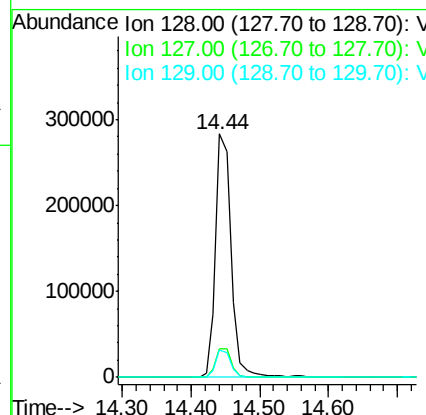
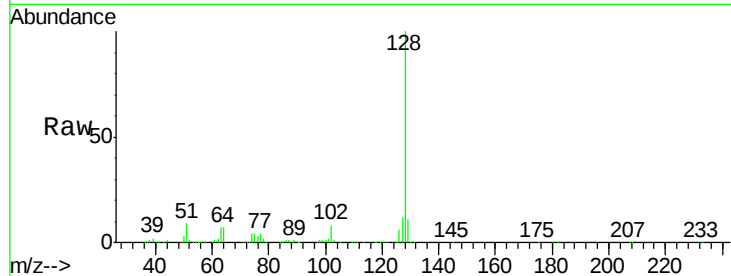
#95
Naphthalene
Concen: 51.382 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	9.8	14.6
129	11.0	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
3/2/2019 4:09:35 AM



#96
1,2,3-Trichlorobenzene
Concen: 51.923 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061785.D
Acq: 28 Feb 2019 12:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.9	49.0	147.2
145	32.0	15.4	46.1

