

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041919\
 Data File : VF062224.D
 Acq On : 19 Apr 2019 14:51
 Operator : FY/SY
 Sample : VF0419SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/23/2019 6:55:56 AM

Quant Time: Apr 19 16:00:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 03:56:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	418122	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.78	114	604331	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	476705	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	273615	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	207054	54.01	ug/l	0.03
Spiked Amount	50.000		Recovery	=	108.02%	
35) Dibromofluoromethane	4.32	113	280054	52.98	ug/l	0.03
Spiked Amount	50.000		Recovery	=	105.96%	
50) Toluene-d8	7.72	98	714435	53.39	ug/l	0.03
Spiked Amount	50.000		Recovery	=	106.78%	
62) 4-Bromofluorobenzene	11.50	95	282394	54.86	ug/l	0.02
Spiked Amount	50.000		Recovery	=	109.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	133138	20.953	ug/l	95
3) Chloromethane	1.16	50	121707	18.531	ug/l	96
4) Vinyl Chloride	1.20	62	108090	19.156	ug/l	93
5) Bromomethane	1.40	94	65038	19.842	ug/l	91
6) Chloroethane	1.45	64	41624	17.646	ug/l	97
7) Trichlorofluoromethane	1.56	101	149764	20.893	ug/l	96
8) Diethyl Ether	1.72	74	29512	19.781	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.91	101	100144	20.450	ug/l	97
10) Methyl Iodide	1.99	142	175561	20.181	ug/l #	89
11) Tert butyl alcohol	2.72	59	27179	101.984	ug/l #	81
12) 1,1-Dichloroethene	1.88	96	87772	18.844	ug/l	99
13) Acrolein	2.11	56	14100	100.778	ug/l #	65
14) Allyl chloride	2.20	41	100879	18.872	ug/l	95
15) Acrylonitrile	3.10	53	77395	95.349	ug/l	100
16) Acetone	2.36	43	85131	92.895	ug/l	98
17) Carbon Disulfide	1.93	76	247072m	19.090	ug/l	
18) Methyl Acetate	2.47	43	42313	17.659	ug/l	93
19) Methyl tert-butyl Ether	2.56	73	164370	19.988	ug/l	96
20) Methylene Chloride	2.34	84	105790	19.711	ug/l	92
21) trans-1,2-Dichloroethene	2.43	96	88337	19.178	ug/l	95
22) Diisopropyl ether	2.95	45	269864	19.736	ug/l	98
23) Vinyl Acetate	3.36	43	654290	100.434	ug/l	99
24) 1,1-Dichloroethane	3.02	63	154944	20.715	ug/l	98
25) 2-Butanone	4.54	43	174232	95.083	ug/l	97
26) 2,2-Dichloropropane	3.79	77	74330	19.683	ug/l	96
27) cis-1,2-Dichloroethene	3.66	96	118933	19.939	ug/l	98
28) Bromochloromethane	3.92	49	70506	19.678	ug/l #	91
29) Tetrahydrofuran	4.28	42	78280	94.380	ug/l	98
30) Chloroform	4.07	83	189770	20.644	ug/l	98
31) Cyclohexane	3.90	56	164043	18.301	ug/l	99
32) 1,1,1-Trichloroethane	4.29	97	146989	21.845	ug/l #	90
36) 1,1-Dichloropropene	4.49	75	141333	19.506	ug/l	99
37) Ethyl Acetate	4.32	43	65215	19.074	ug/l #	97
38) Carbon Tetrachloride	4.20	117	137993m	21.517	ug/l	

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 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 03:56:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	171831	19.807	ug/l	95
40) Benzene	4.84	78	392724	20.664	ug/l	98
41) Methacrylonitrile	4.95	41	39234	19.894	ug/l	95
42) 1,2-Dichloroethane	5.14	62	103513	20.603	ug/l	99
43) Isopropyl Acetate	7.13	43	69781	19.405	ug/l	99
44) Trichloroethene	5.69	130	110733	21.562	ug/l	98
45) 1,2-Dichloropropane	6.42	63	83953	20.054	ug/l	97
46) Dibromomethane	6.28	93	57858	20.773	ug/l	93
47) Bromodichloromethane	6.56	83	130831	20.816	ug/l #	98
48) Methyl methacrylate	6.90	41	45124	19.094	ug/l	98
49) 1,4-Dioxane	6.90	88	10026	369.926	ug/l #	78
51) 4-Methyl-2-Pentanone	8.41	43	264016	98.710	ug/l	100
52) Toluene	7.79	92	201584	20.122	ug/l	95
53) t-1,3-Dichloropropene	8.43	75	101593	21.520	ug/l	96
54) cis-1,3-Dichloropropene	7.47	75	128804	20.171	ug/l	98
55) 1,1,2-Trichloroethane	8.65	97	58971	21.013	ug/l	97
56) Ethyl methacrylate	8.77	69	65927	20.662	ug/l	98
57) 1,3-Dichloropropane	9.01	76	97130	21.433	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.46	63	98625	106.462	ug/l	97
59) 2-Hexanone	9.64	43	167031	100.226	ug/l	100
60) Dibromochloromethane	8.87	129	93340	22.364	ug/l	98
61) 1,2-Dibromoethane	9.14	107	70818	22.398	ug/l	99
64) Tetrachloroethene	8.32	164	97128	22.571	ug/l	98
65) Chlorobenzene	9.94	112	222302	21.870	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	100122	21.034	ug/l	98
67) Ethyl Benzene	10.04	91	393193	21.273	ug/l	97
68) m/p-Xylenes	10.27	106	292592	43.002	ug/l	98
69) o-Xylene	10.83	106	160604	21.259	ug/l	96
70) Styrene	10.90	104	238953	22.414	ug/l	99
71) Bromoform	10.89	173	58276	23.188	ug/l #	97
73) Isopropylbenzene	11.22	105	466783	19.860	ug/l	100
74) N-amyl acetate	11.45	43	110701	18.465	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.78	83	77971	19.290	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	52900	19.022	ug/l #	64
77) Bromobenzene	11.59	156	108799	21.609	ug/l	92
78) n-propylbenzene	11.68	91	485969	19.600	ug/l	100
79) 2-Chlorotoluene	11.81	91	294325	19.569	ug/l	99
80) 1,3,5-Trimethylbenzene	11.90	105	396777	20.269	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	24975m	17.609	ug/l	
82) 4-Chlorotoluene	11.98	91	297205	20.447	ug/l	98
83) tert-Butylbenzene	12.20	119	407997	20.154	ug/l	98
84) 1,2,4-Trimethylbenzene	12.28	105	368404	19.448	ug/l	98
85) sec-Butylbenzene	12.38	105	530977	20.203	ug/l	99
86) p-Isopropyltoluene	12.53	119	457819	20.535	ug/l	100
87) 1,3-Dichlorobenzene	12.55	146	199717	21.375	ug/l	97
88) 1,4-Dichlorobenzene	12.63	146	187971	20.857	ug/l	98
89) n-Butylbenzene	12.90	91	436399	20.767	ug/l	97
90) Hexachloroethane	12.98	117	115765	20.221	ug/l	98
91) 1,2-Dichlorobenzene	13.01	146	188919	20.940	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.70	75	15585	19.625	ug/l	97

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ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VF0419SBSD01

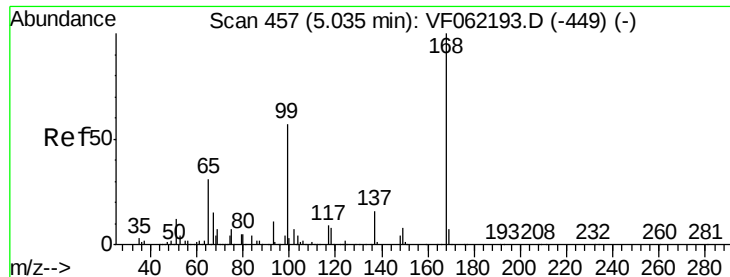
Manual Integrations
APPROVED

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4/23/2019 6:55:56 AM

Quant Time: Apr 19 16:00:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.25	180	162412	21.516	ug/l	99
94) Hexachlorobutadiene	14.23	225	111622	21.566	ug/l	98
95) Naphthalene	14.50	128	256423	19.428	ug/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	152575	21.054	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion:168 Resp: 418122

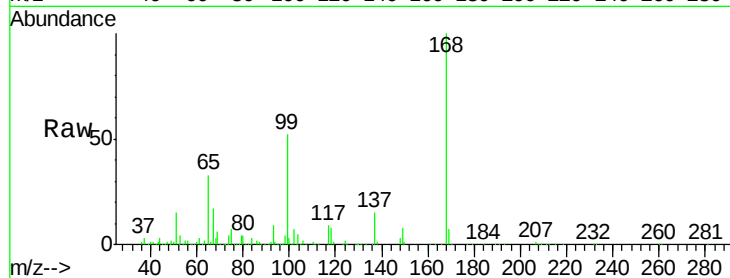
Ion Ratio Lower Upper

168 100

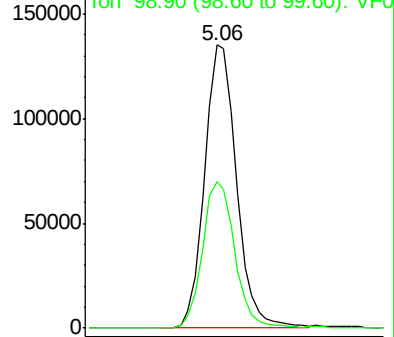
99 51.7 45.5 68.3

Manual Integrations
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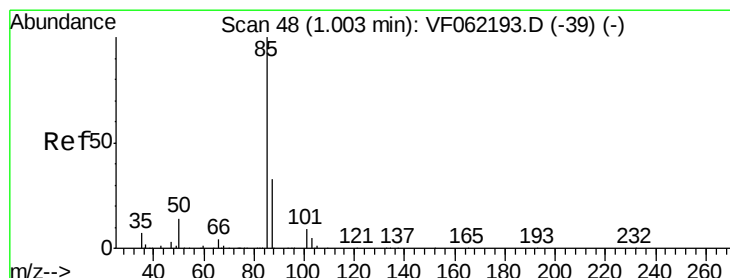
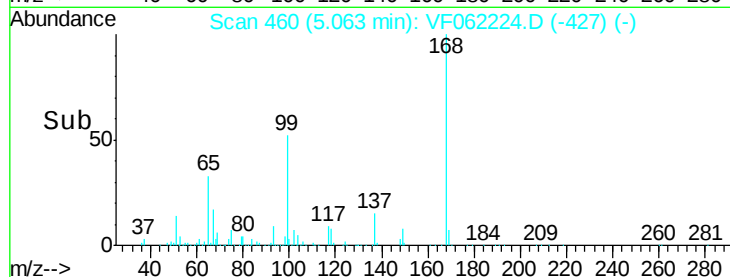
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Abundance Ion 167.90 (167.60 to 168.60): VF0



Time--> 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 20.953 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062224.D

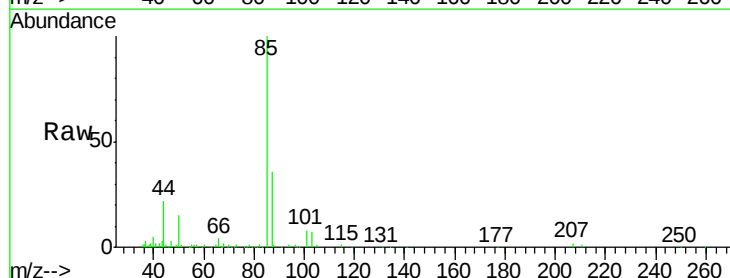
Acq: 19 Apr 2019 14:51

Tgt Ion: 85 Resp: 133138

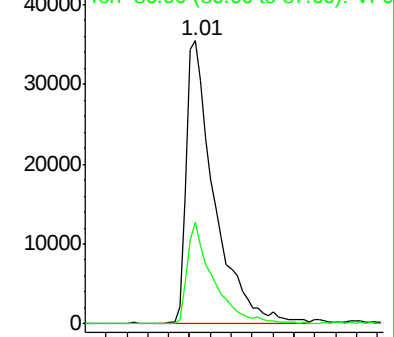
Ion Ratio Lower Upper

85 100

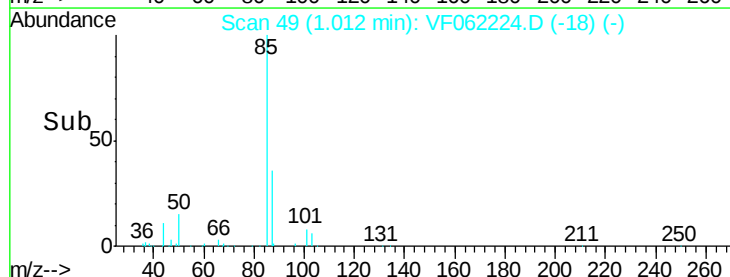
87 35.7 16.4 49.1

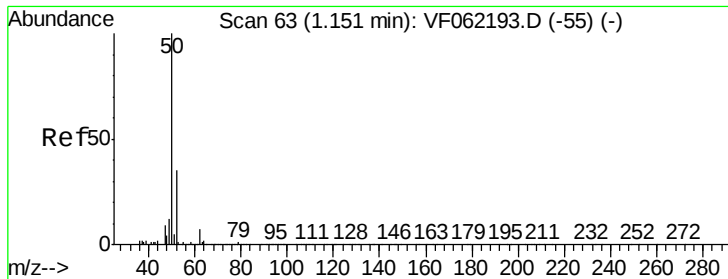


Abundance Ion 84.90 (84.60 to 85.60): VF0



Time--> 1.00 1.20





#3

Chloromethane

Concen: 18.531 ug/l

RT: 1.16 min Scan# 64

Delta R.T. 0.01 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 50 Resp: 121707

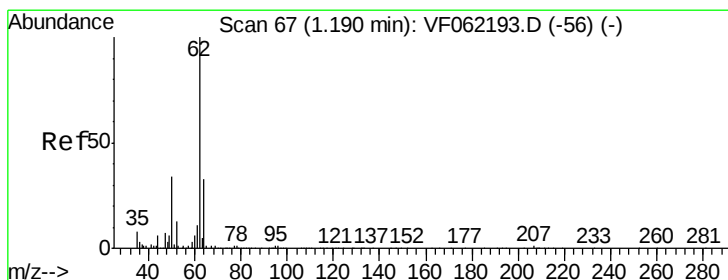
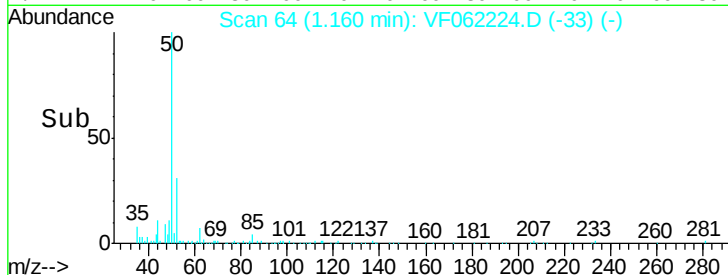
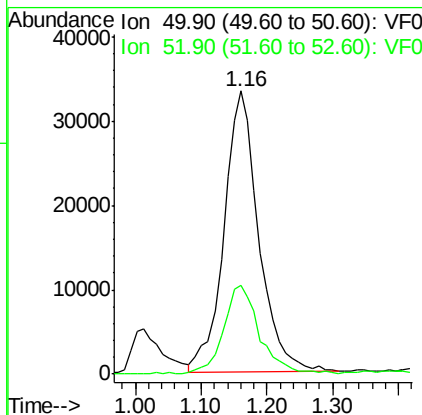
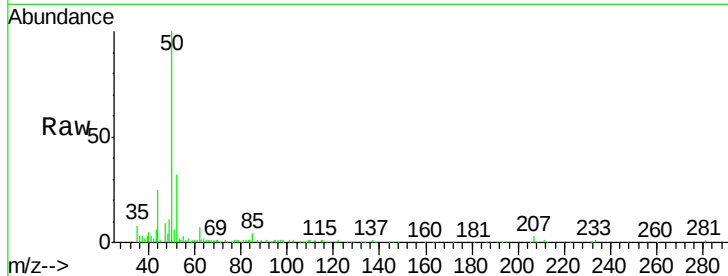
Ion Ratio Lower Upper

50 100

52 31.7 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 19.156 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF062224.D

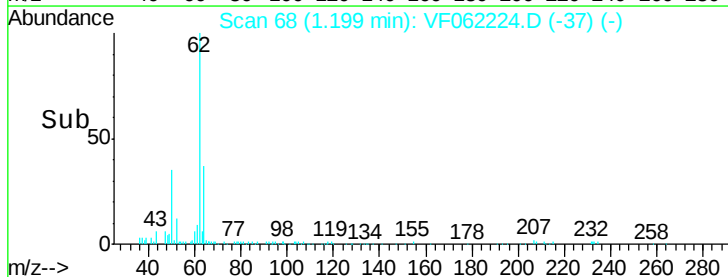
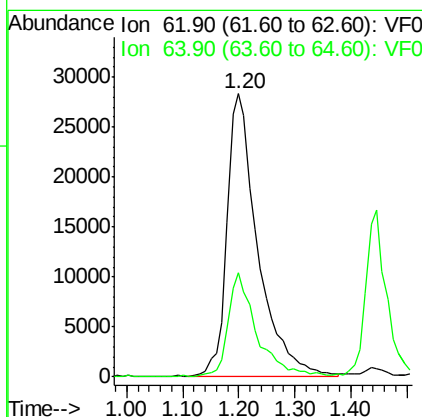
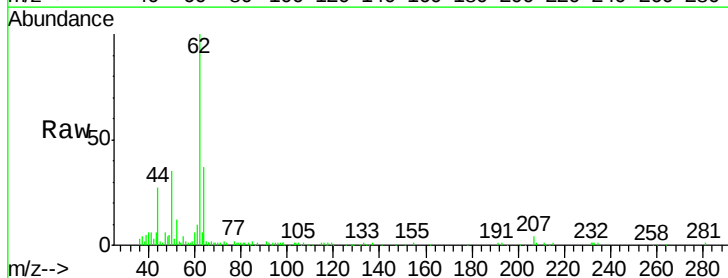
Acq: 19 Apr 2019 14:51

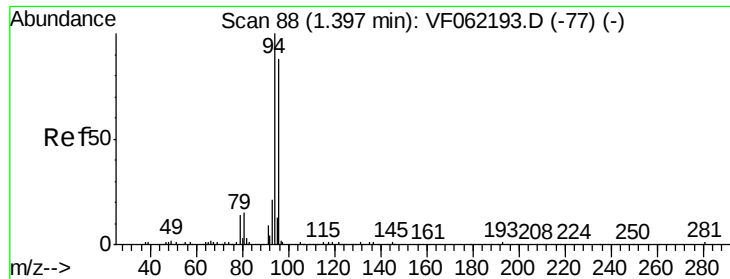
Tgt Ion: 62 Resp: 108090

Ion Ratio Lower Upper

62 100

64 36.9 26.2 39.4





#5

Bromomethane

Concen: 19.842 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 94 Resp: 65038

Ion Ratio Lower Upper

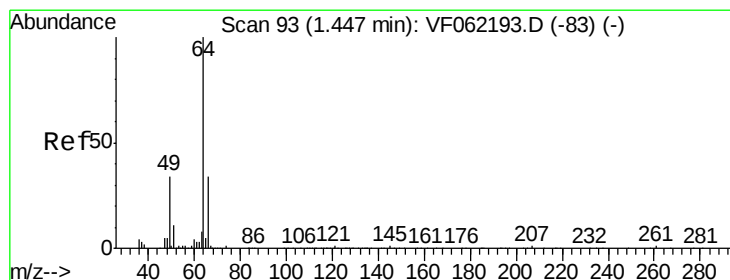
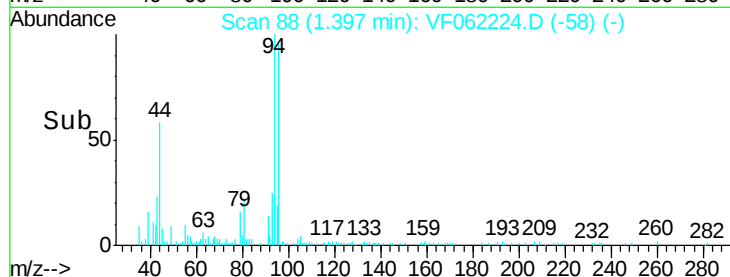
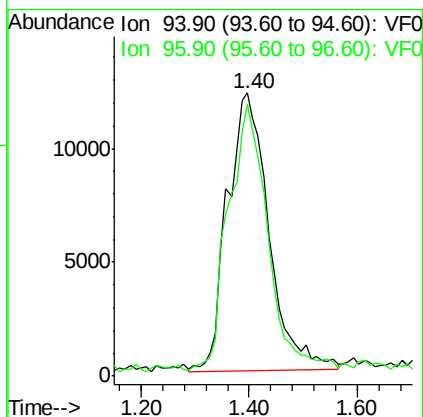
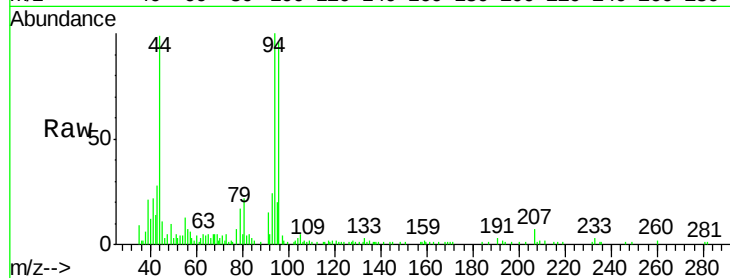
94 100

96 96.2 70.2 105.4

Manual Integrations
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#6

Chloroethane

Concen: 17.646 ug/l

RT: 1.45 min Scan# 93

Delta R.T. -0.00 min

Lab File: VF062224.D

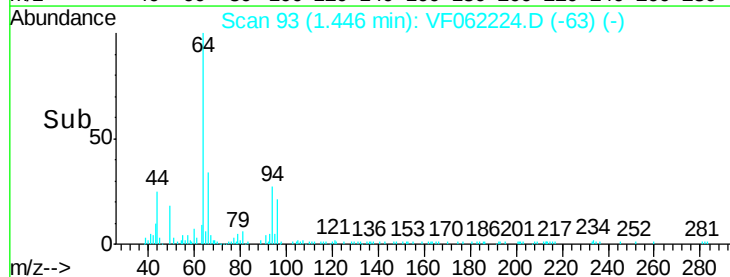
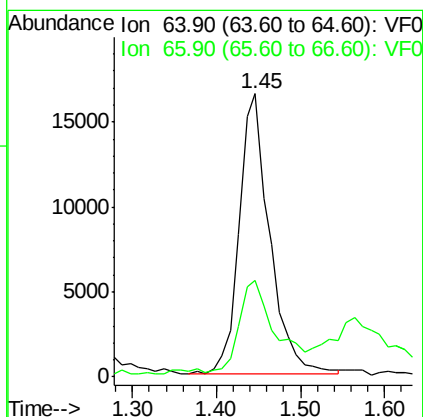
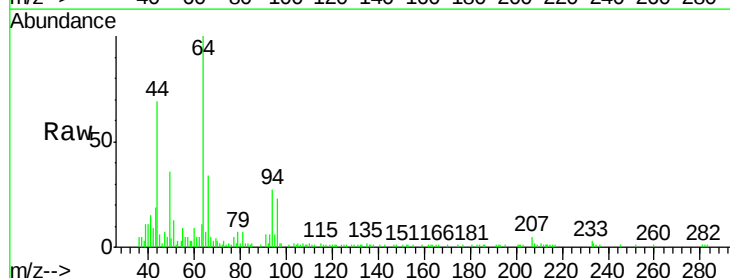
Acq: 19 Apr 2019 14:51

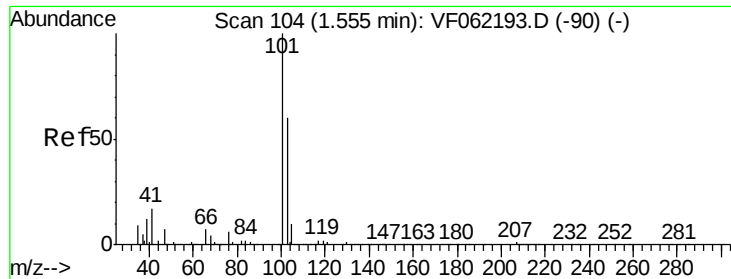
Tgt Ion: 64 Resp: 41624

Ion Ratio Lower Upper

64 100

66 32.2 27.0 40.4





#7

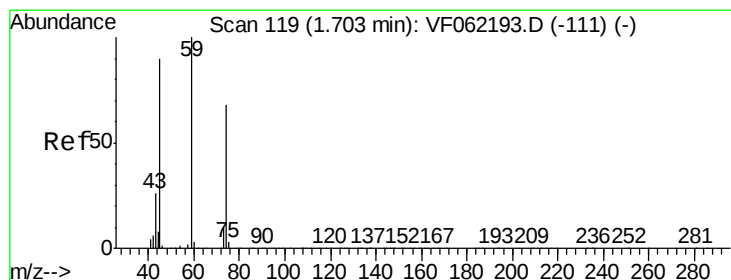
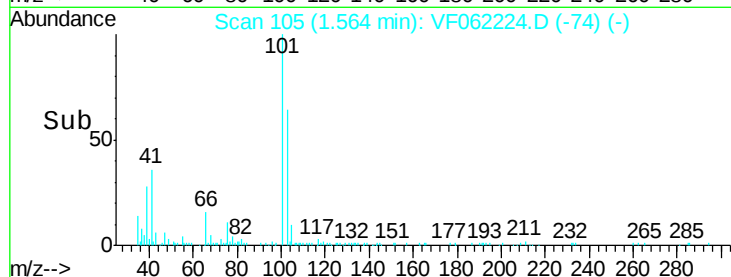
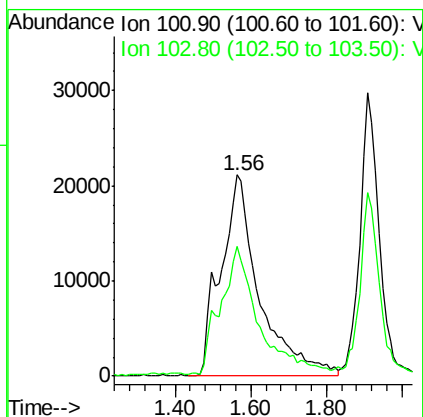
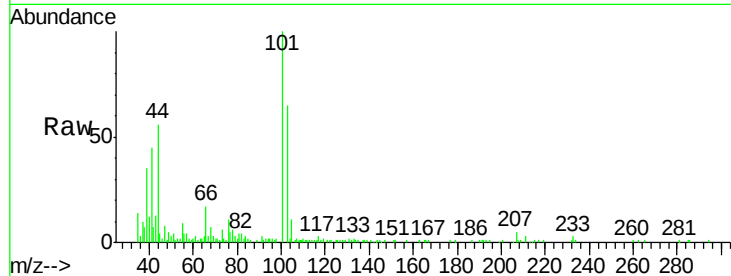
Trichlorofluoromethane
Concen: 20.893 ug/l
RT: 1.56 min Scan# 105
Delta R.T. 0.01 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.5	48.2	72.4

Manual Integrations
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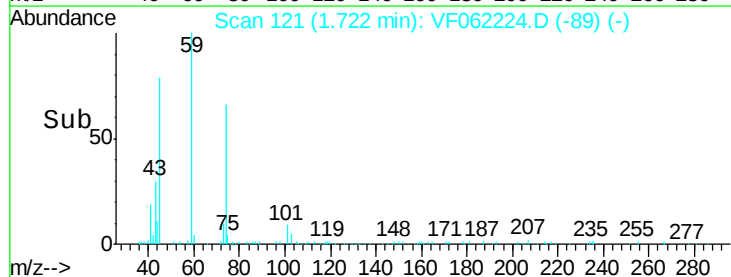
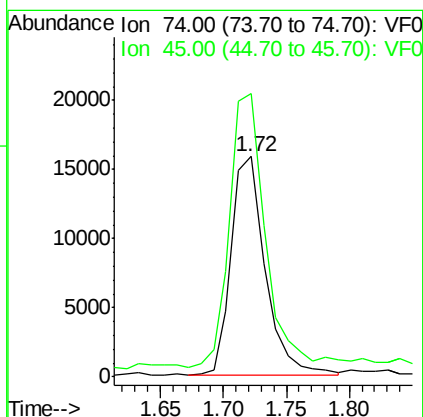
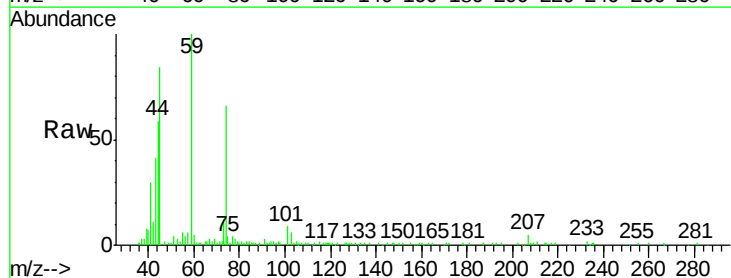
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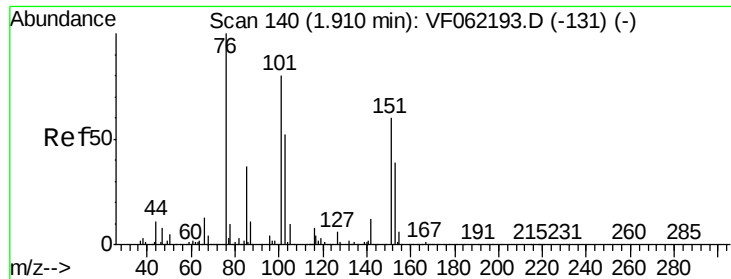


#8

Diethyl Ether
Concen: 19.781 ug/l
RT: 1.72 min Scan# 121
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
74	100		
45	137.7	70.0	210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.450 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

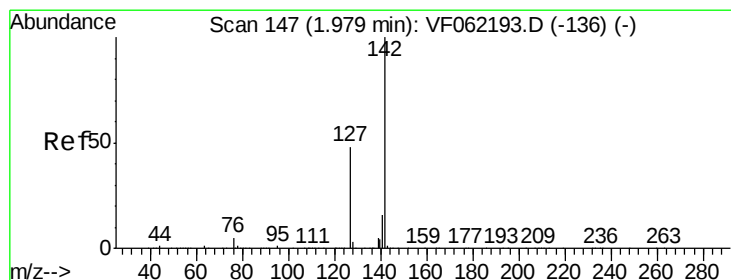
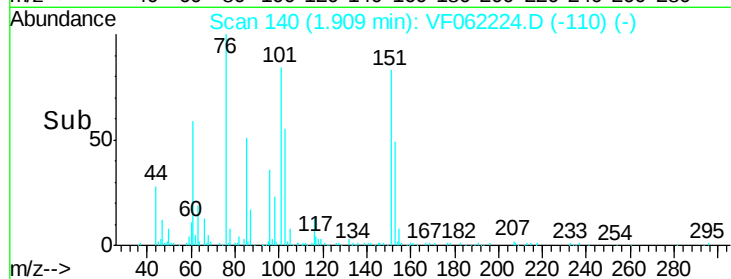
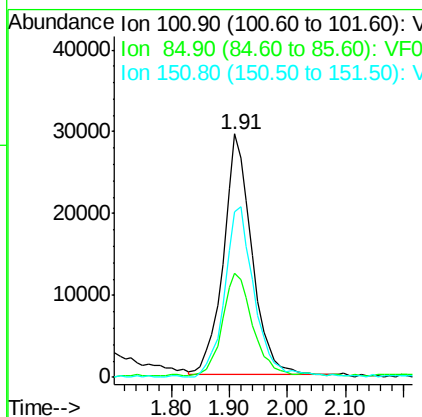
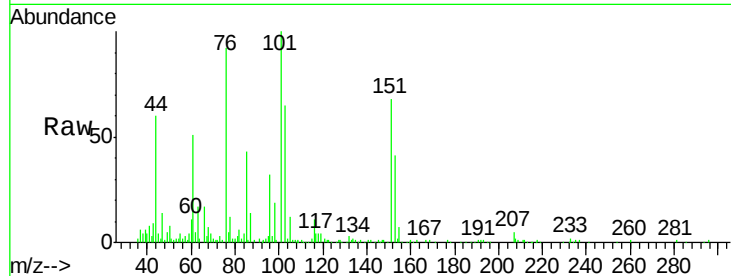
ClientSampleId :

VF0419SBS01

Tot Ion:	101	Resp:	100144
Ion Ratio	Lower	Upper	
101	100		
85	44.7	35.3	52.9
151	75.1	57.5	86.3

Manual Integrations
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MMDadoda
4/23/2019 6:55:56 AM



#10

Methyl Iodide

Concen: 20.181 ug/l

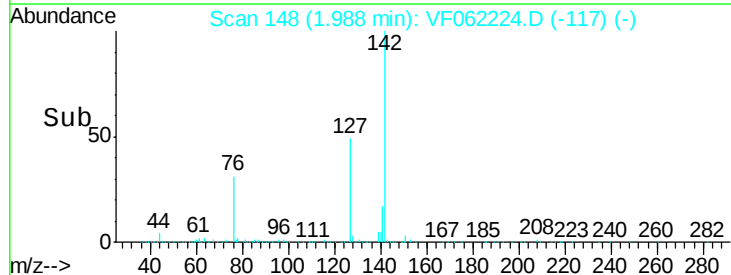
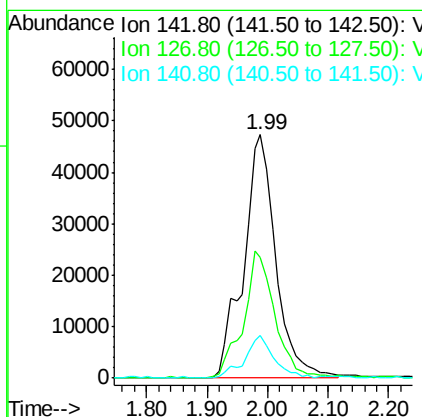
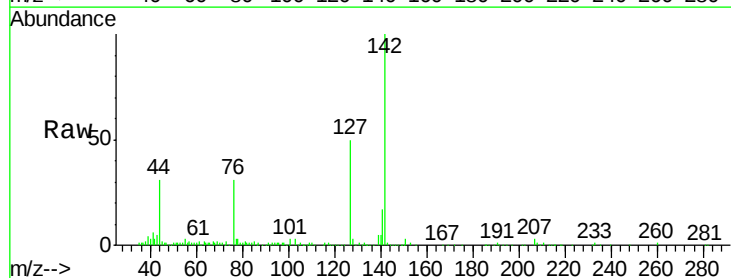
RT: 1.99 min Scan# 148

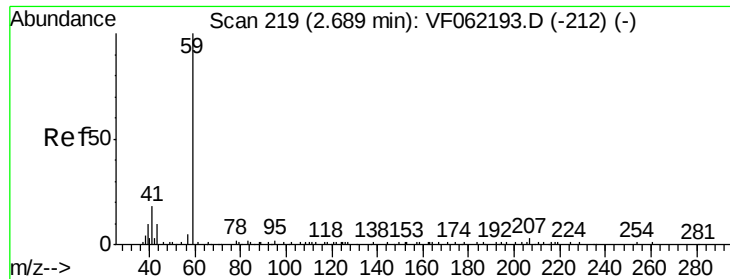
Delta R.T. 0.01 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	142	Resp:	175561
Ion Ratio	Lower	Upper	
142	100		
127	51.1	33.0	49.4#
141	15.9	12.7	19.1





#11

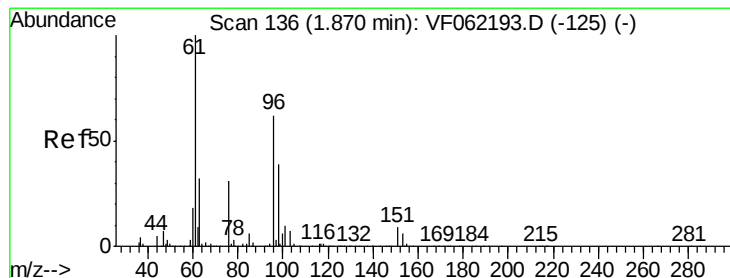
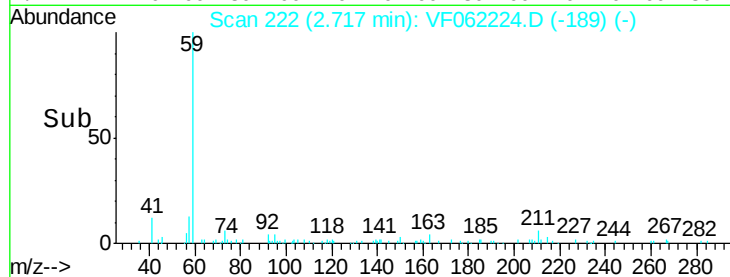
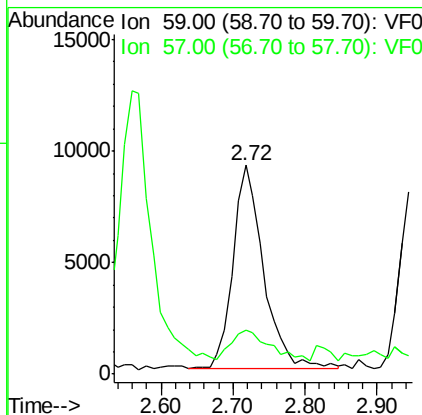
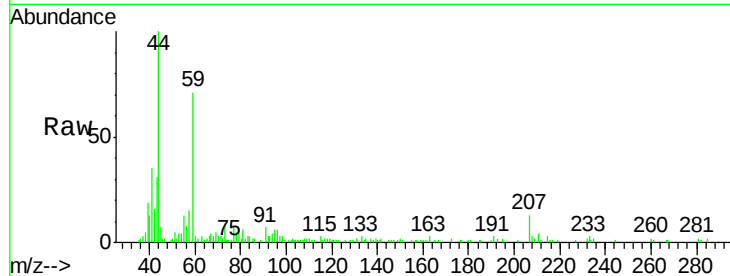
Tert butyl alcohol
Concen: 101.984 ug/l
RT: 2.72 min Scan# 222
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	19.0	9.3	13.9#

Manual Integrations
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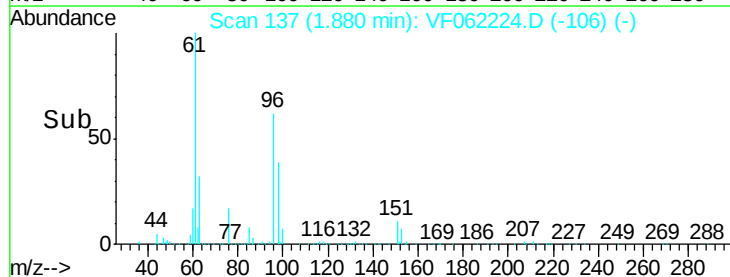
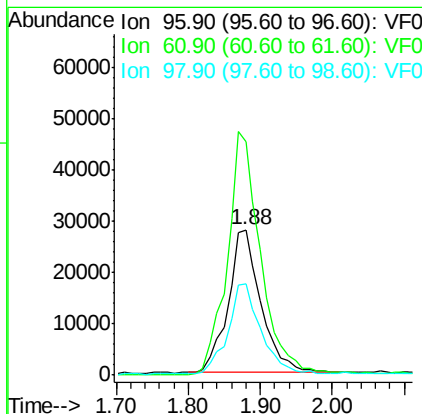
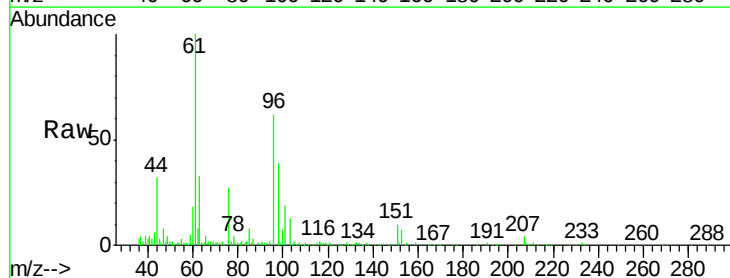
MMDadoda
4/23/2019 6:55:56 AM

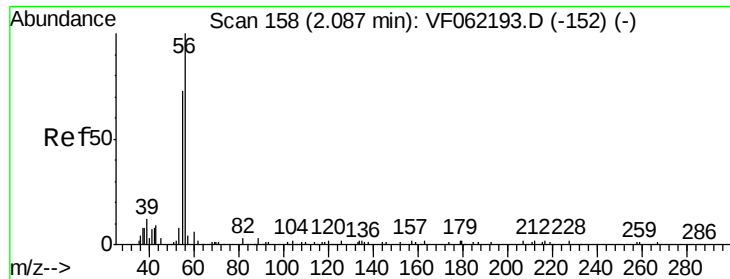


#12

1,1-Dichloroethene
Concen: 18.844 ug/l
RT: 1.88 min Scan# 137
Delta R.T. 0.01 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.8	129.1	193.7
98	63.0	50.0	75.0





#13

Acrolein

Concen: 100.778 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBSD01

Tot Ion: 56 Resp: 14100

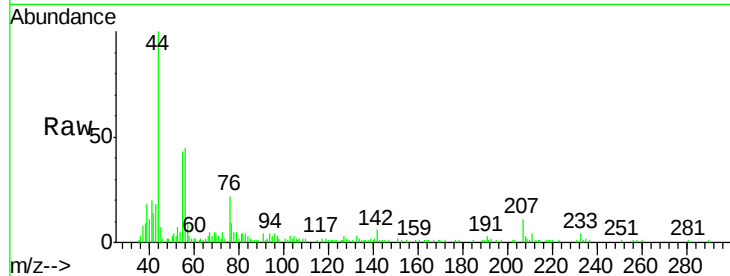
Ion Ratio Lower Upper

56 100

55 101.1 57.4 86.0#

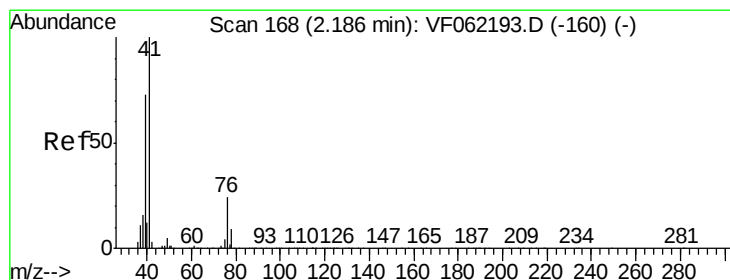
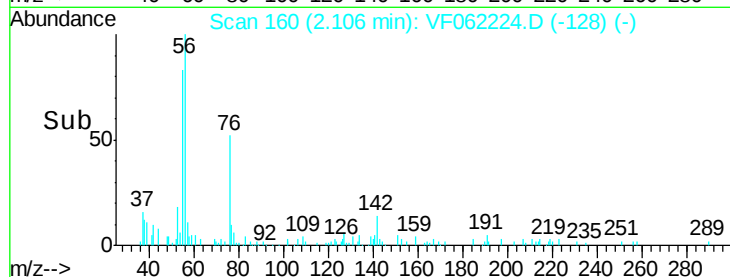
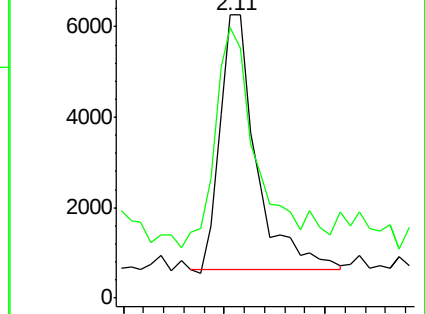
Manual Integrations
APPROVED

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4/23/2019 6:55:56 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 18.872 ug/l

RT: 2.20 min Scan# 170

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

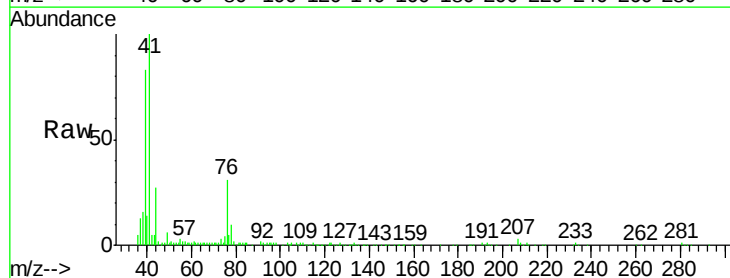
Tgt Ion: 41 Resp: 100879

Ion Ratio Lower Upper

41 100

39 80.0 60.0 90.0

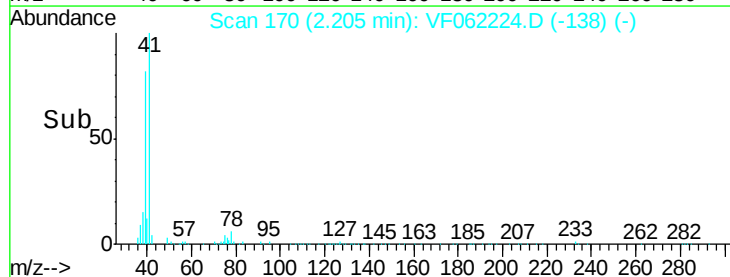
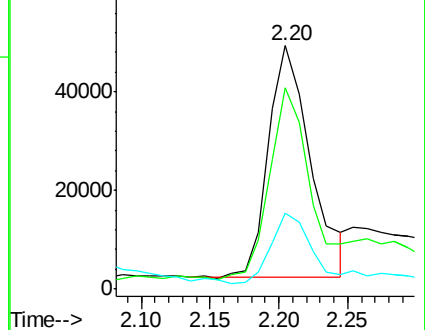
76 27.8 20.6 30.8

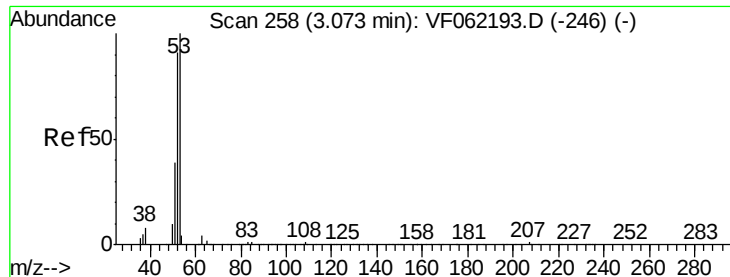


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 75.90 (75.60 to 76.60): VF0





#15

Acrylonitrile

Concen: 95.349 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

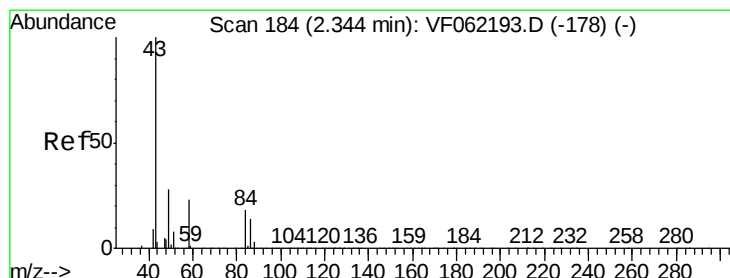
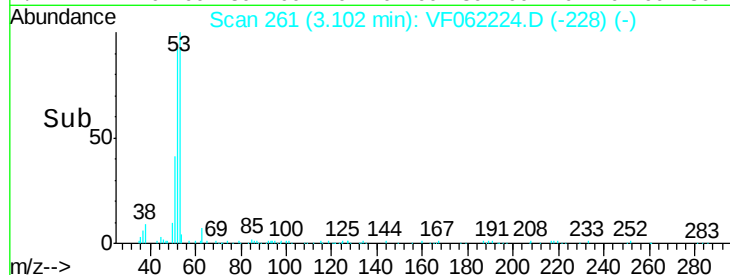
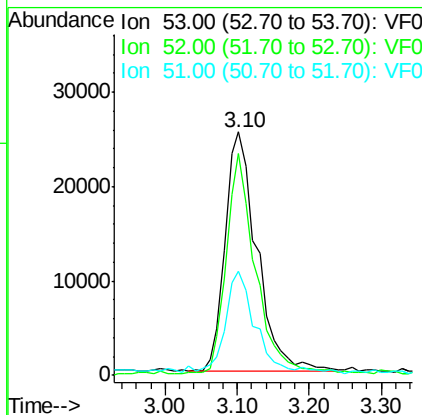
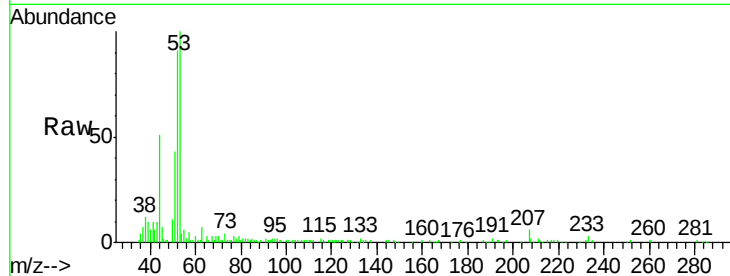
ClientSampleId :

VF0419SBS01

Tot Ion:	53	Resp:	77395
Ion	Ratio	Lower	Upper
53	100		
52	86.8	69.5	104.3
51	39.7	31.8	47.8

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:55:56 AM



#16

Acetone

Concen: 92.895 ug/l

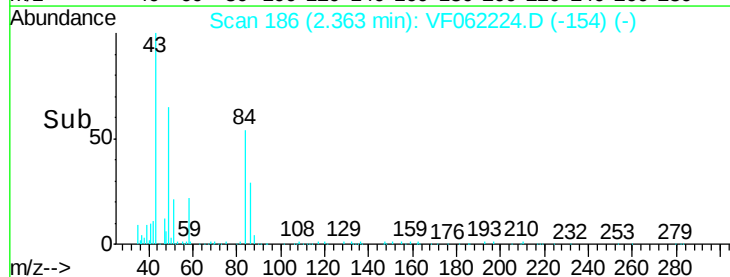
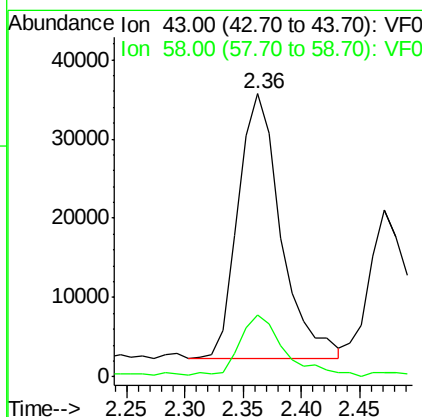
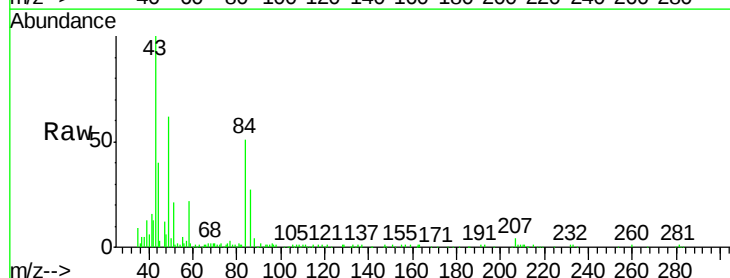
RT: 2.36 min Scan# 186

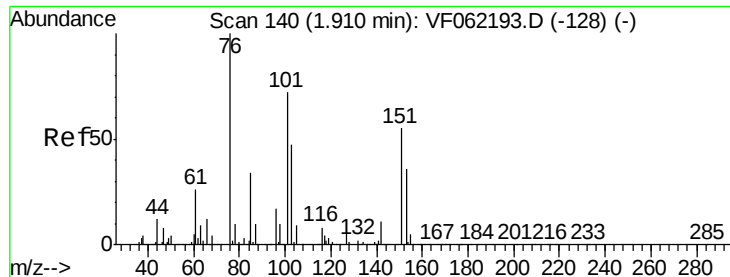
Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	43	Resp:	85131
Ion	Ratio	Lower	Upper
43	100		
58	22.4	18.8	28.2





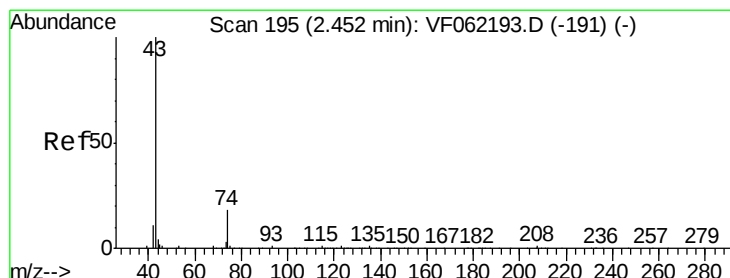
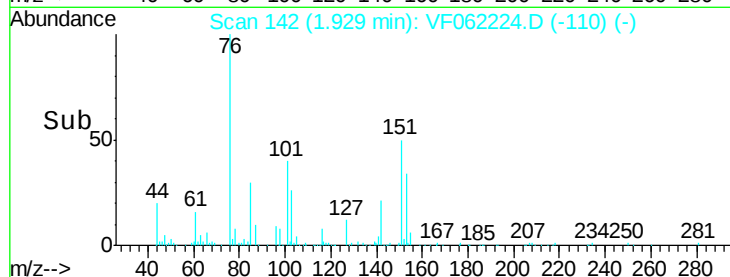
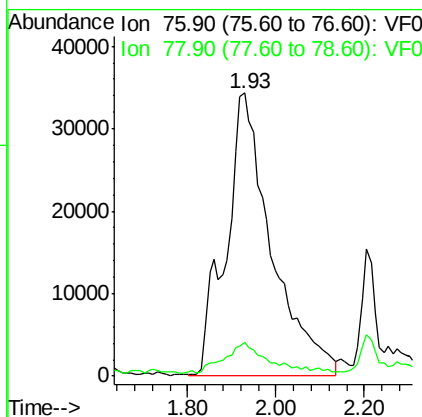
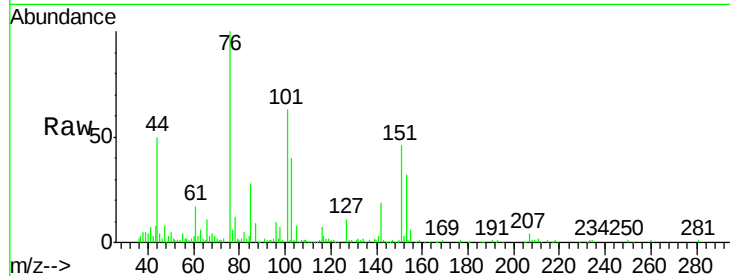
#17
Carbon Disulfide
Concen: 19.090 ug/l m
RT: 1.93 min Scan# 142
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion: 76 Resp: 247072
Ion Ratio Lower Upper
76 100
78 12.1 8.7 13.1

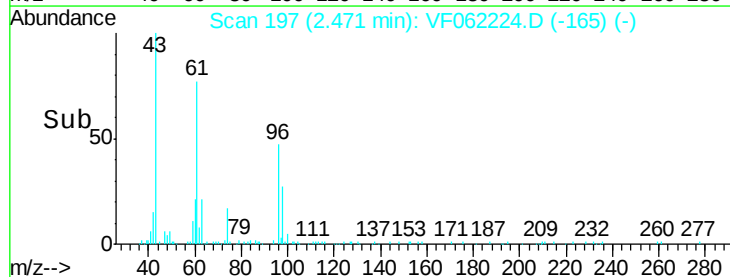
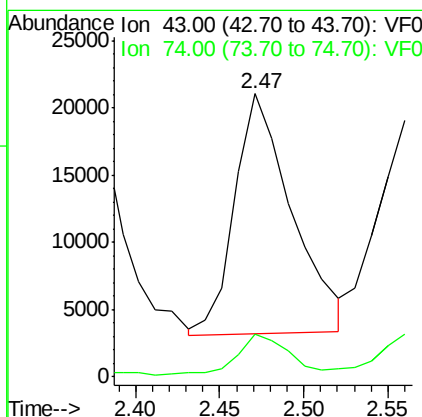
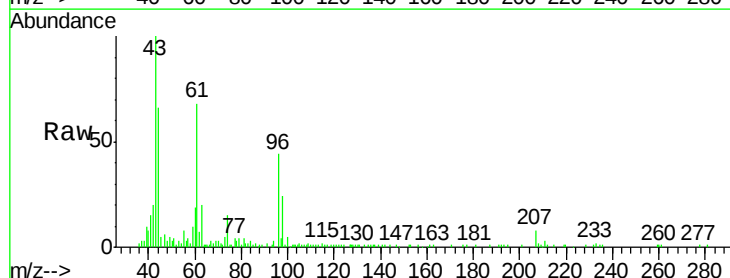
Manual Integrations
APPROVED

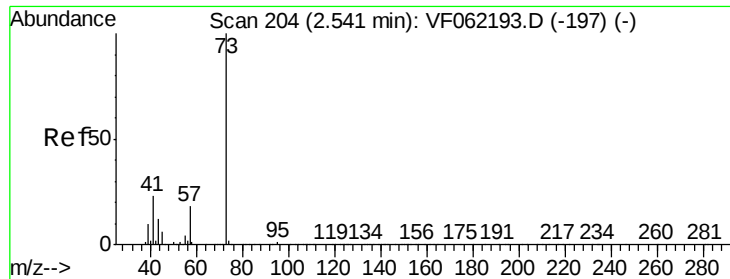
MMDadoda
4/23/2019 6:55:56 AM



#18
Methyl Acetate
Concen: 17.659 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion: 43 Resp: 42313
Ion Ratio Lower Upper
43 100
74 14.9 14.5 21.7





#19

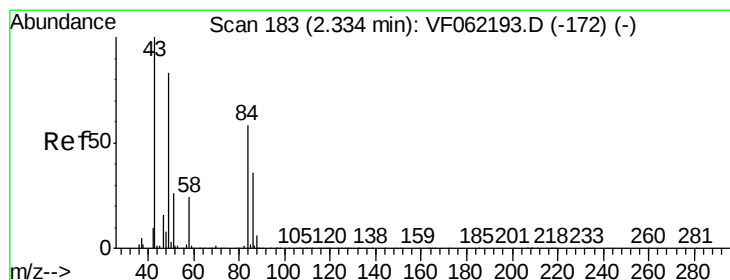
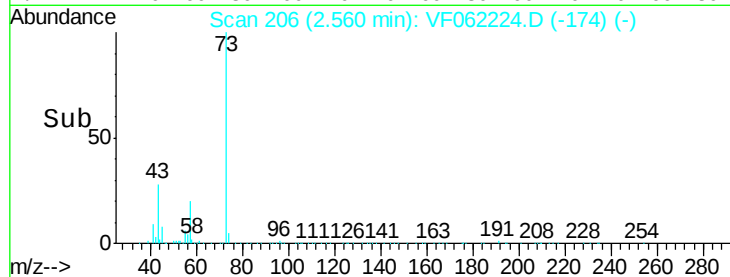
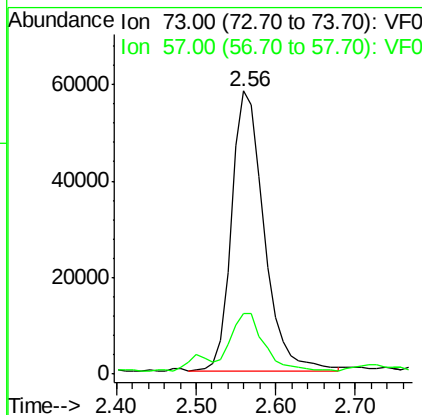
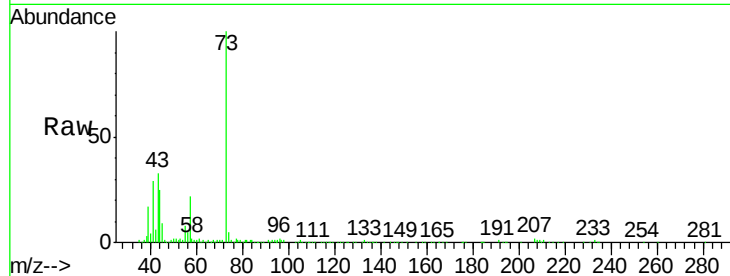
Methyl tert-butyl Ether
Concen: 19.988 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.8	15.1	22.7

Manual Integrations
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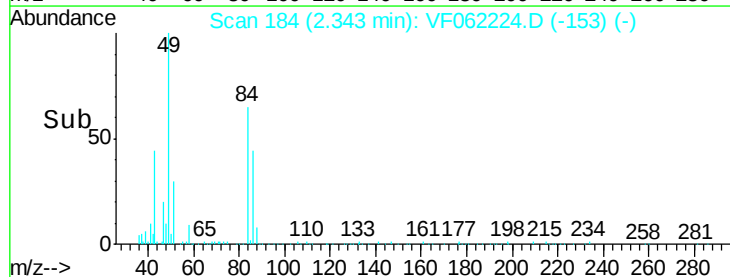
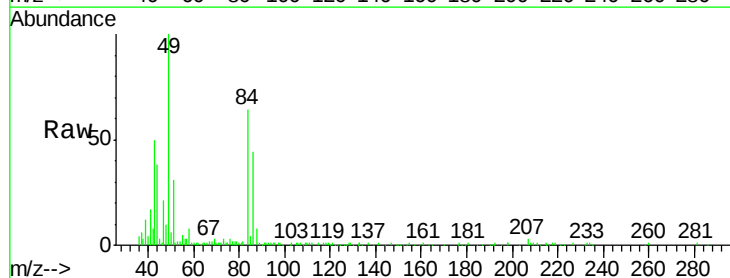
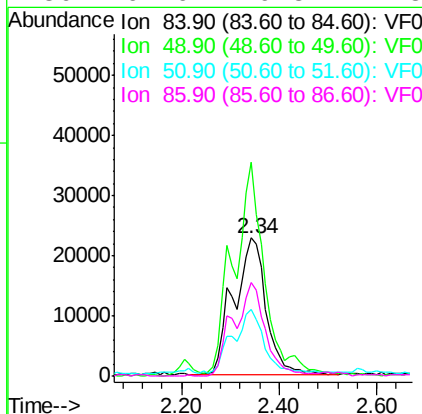
MMDadoda
4/23/2019 6:55:56 AM

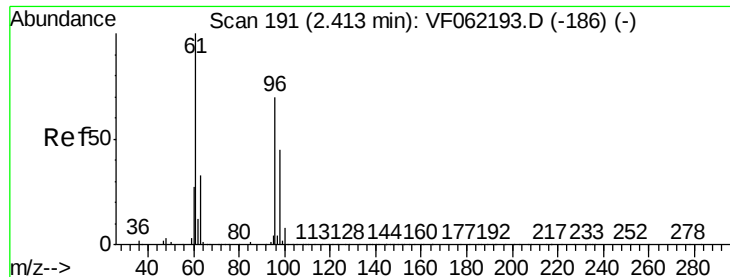


#20

Methylene Chloride
Concen: 19.711 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
84	100		
49	155.2	114.0	171.0
51	44.9	37.0	55.4
86	67.6	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 19.178 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

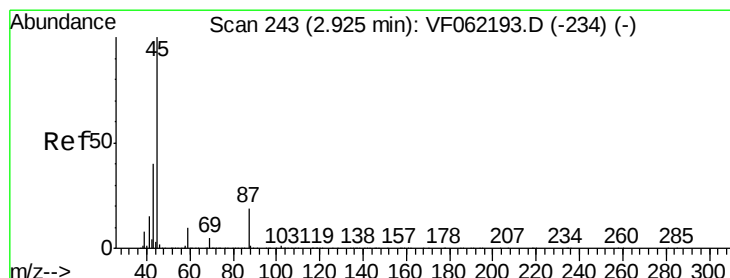
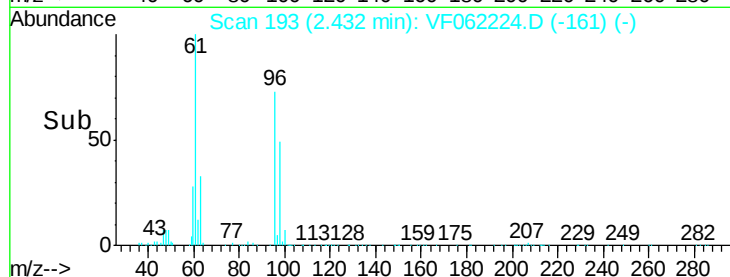
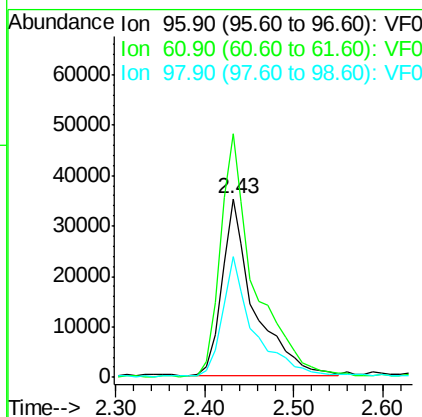
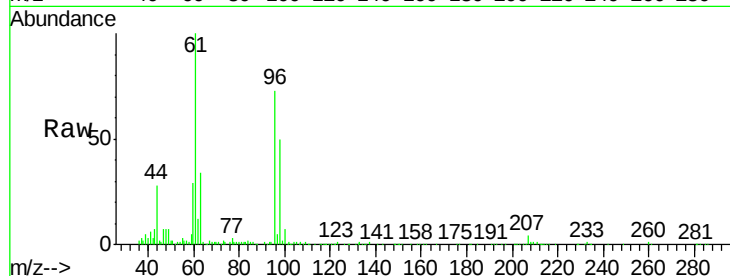
ClientSampleId :

VF0419SBS01

Tot Ion:	96	Resp:	88337
Ion Ratio	Lower	Upper	
96	100		
61	136.9	114.6	172.0
98	67.5	51.2	76.8

Manual Integrations
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4/23/2019 6:55:56 AM



#22

Diisopropyl ether

Concen: 19.736 ug/l

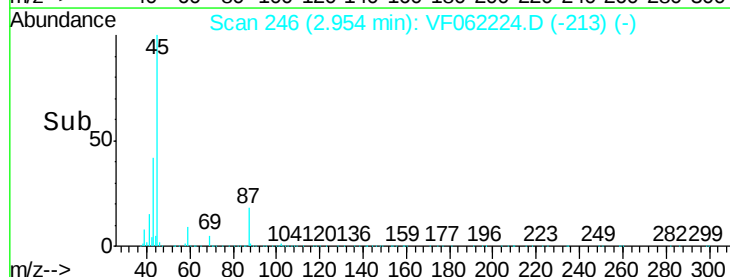
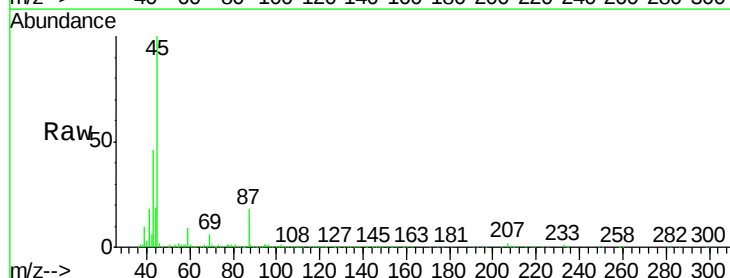
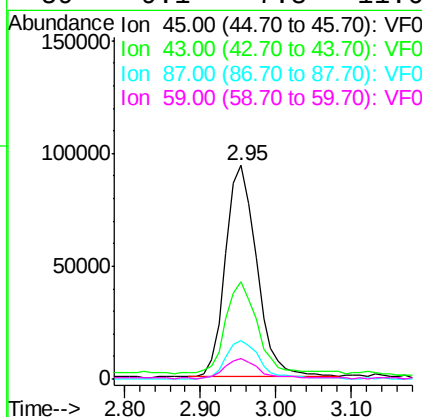
RT: 2.95 min Scan# 246

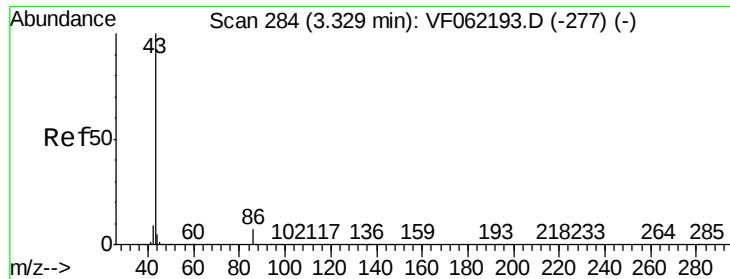
Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	45	Resp:	269864
Ion Ratio	Lower	Upper	
45	100		
43	42.7	32.8	49.2
87	18.0	15.2	22.8
59	9.1	7.8	11.6





#23

Vinyl Acetate

Concen: 100.434 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 43 Resp: 654290

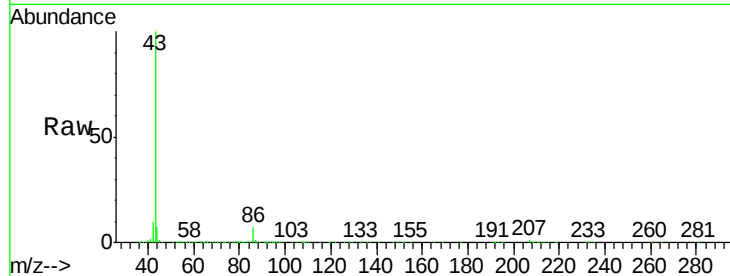
Ion Ratio Lower Upper

43 100

86 7.1 5.9 8.9

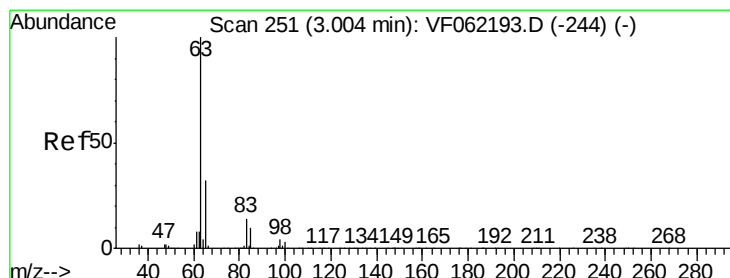
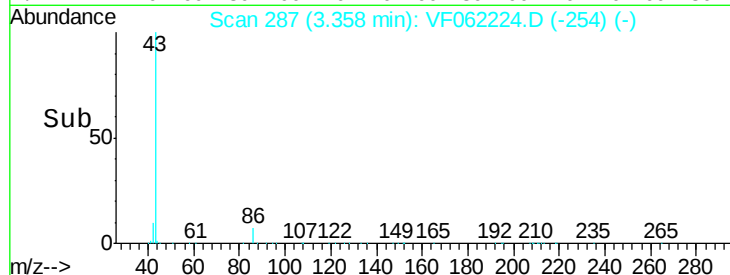
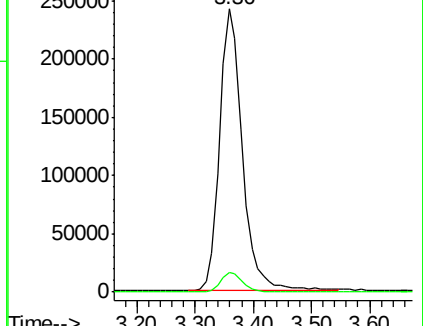
Manual Integrations
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4/23/2019 6:55:56 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 20.715 ug/l

RT: 3.02 min Scan# 253

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

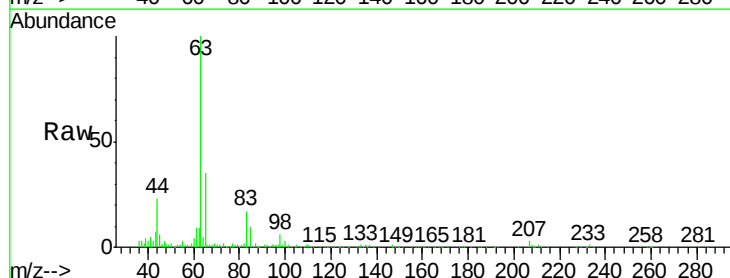
Tgt Ion: 63 Resp: 154944

Ion Ratio Lower Upper

63 100

98 5.2 2.3 6.8

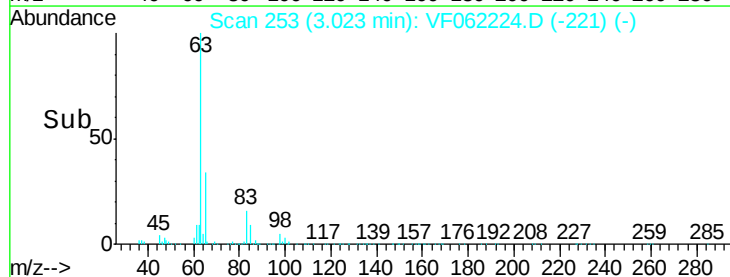
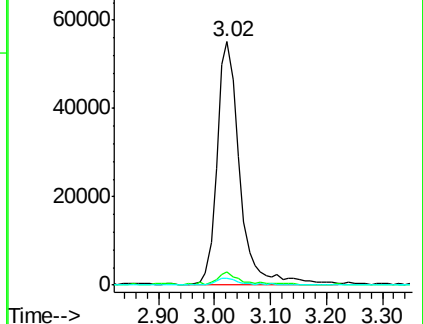
100 3.0 1.7 5.0

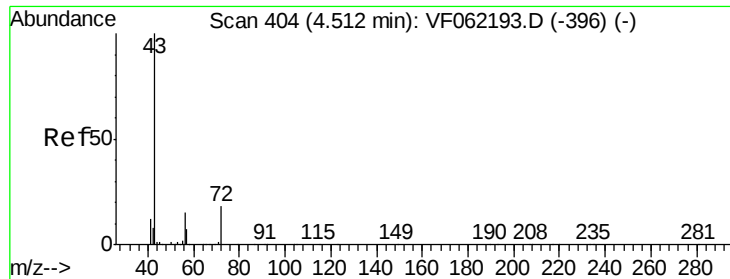


Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 97.90 (97.60 to 98.60): VF0

Ion 99.90 (99.60 to 100.60): VF0





#25

2-Butanone

Concen: 95.083 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tot Ion: 43 Resp: 174232

Ion Ratio Lower Upper

43 100

72 18.7 16.1 24.1

Instrument :

MSVOA_F

ClientSampleId :

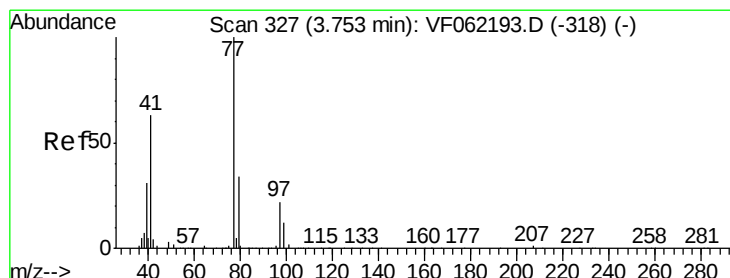
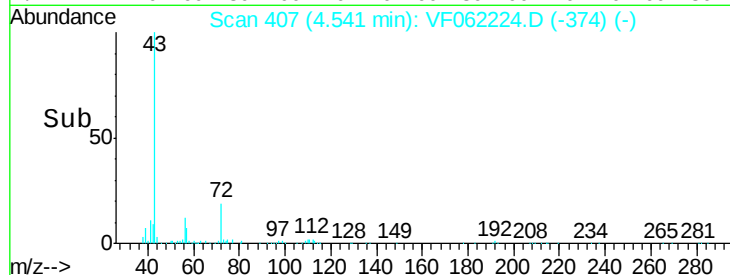
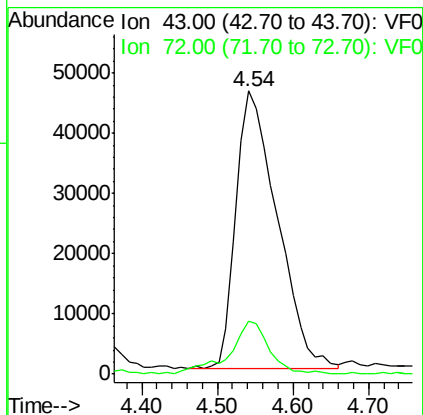
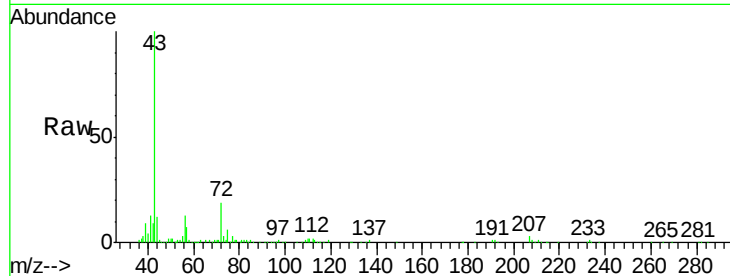
VF0419SBS01

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4/23/2019 6:55:56 AM



#26

2,2-Dichloropropane

Concen: 19.683 ug/l

RT: 3.79 min Scan# 331

Delta R.T. 0.04 min

Lab File: VF062224.D

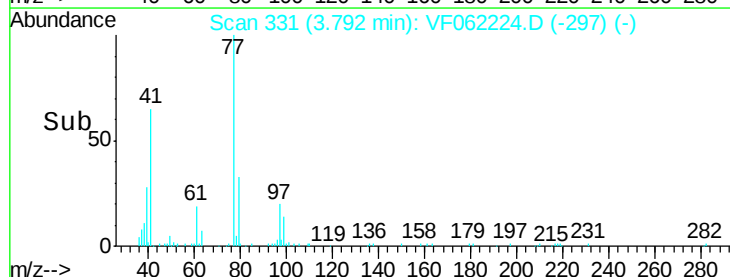
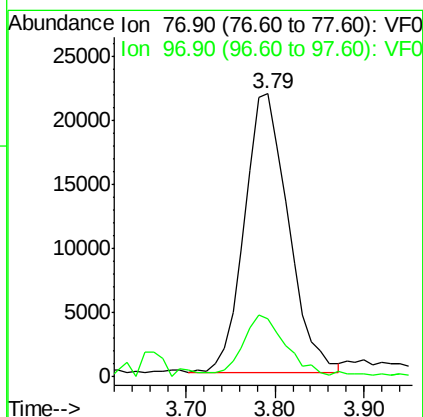
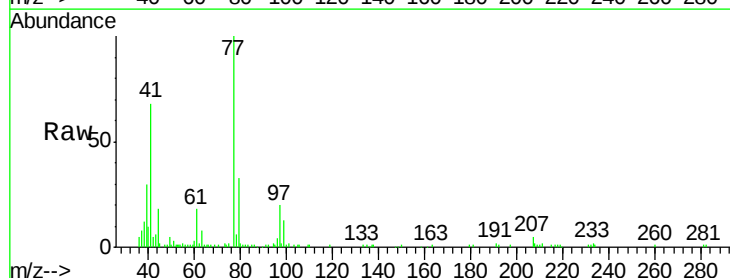
Acq: 19 Apr 2019 14:51

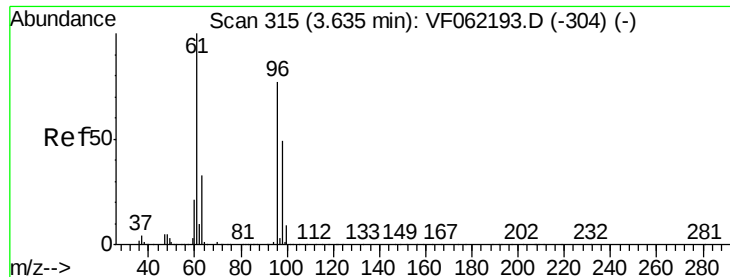
Tgt Ion: 77 Resp: 74330

Ion Ratio Lower Upper

77 100

97 20.3 11.1 33.3





#27

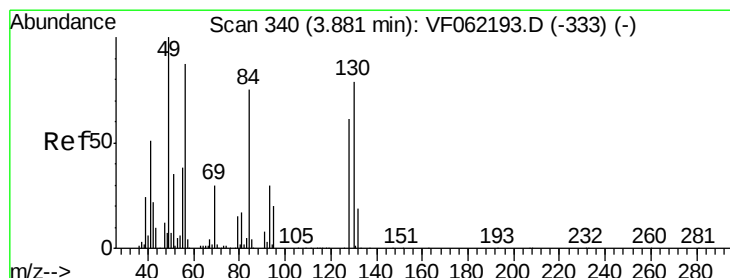
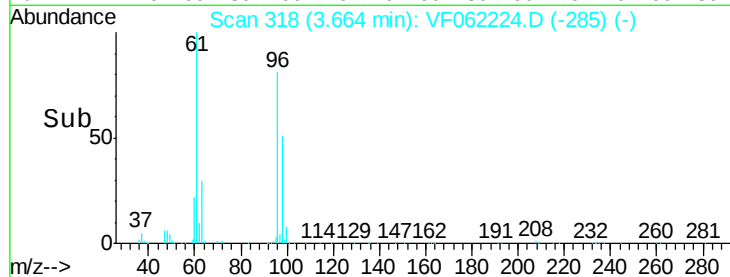
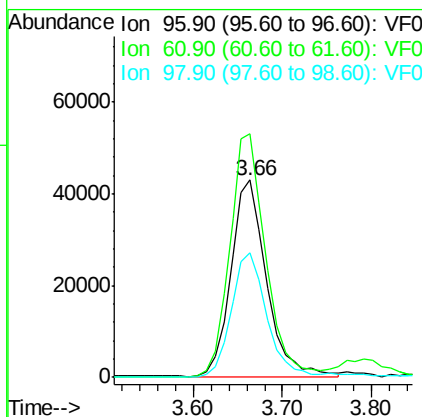
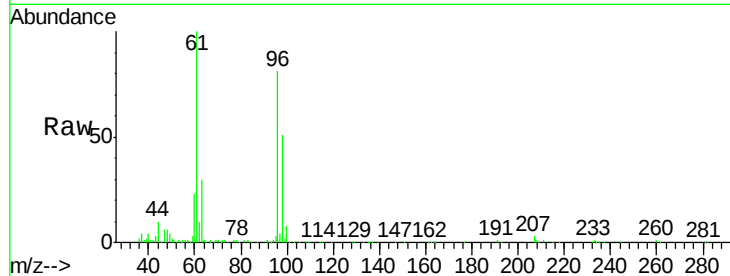
cis-1,2-Dichloroethene
Concen: 19.939 ug/l
RT: 3.66 min Scan# 318
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		118933		
61	125.0	0.0	253.6		
98	63.5	0.0	124.8		

Manual Integrations
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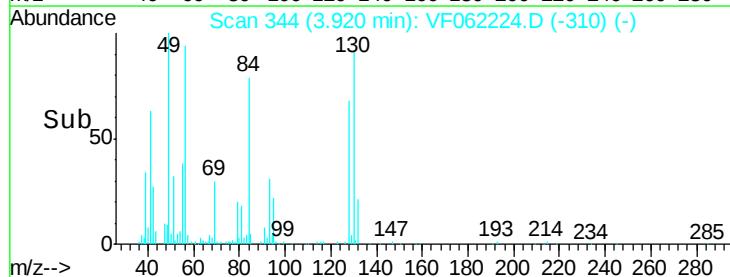
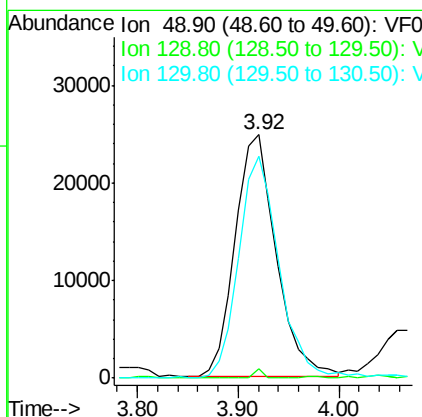
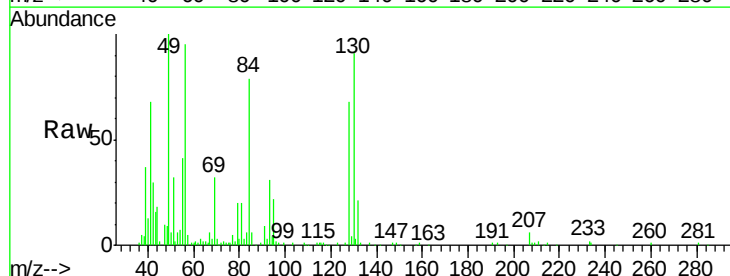
MMDadoda
4/23/2019 6:55:56 AM



#28

Bromochloromethane
Concen: 19.678 ug/l
RT: 3.92 min Scan# 344
Delta R.T. 0.04 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		70506		
129	0.8	0.0	0.0#		
130	91.4	66.6	100.0		





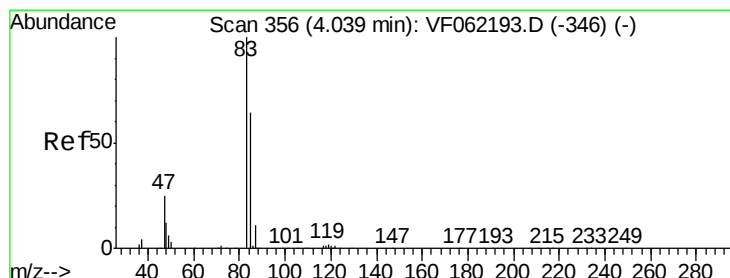
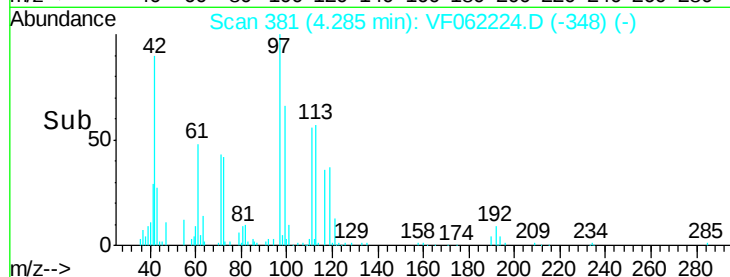
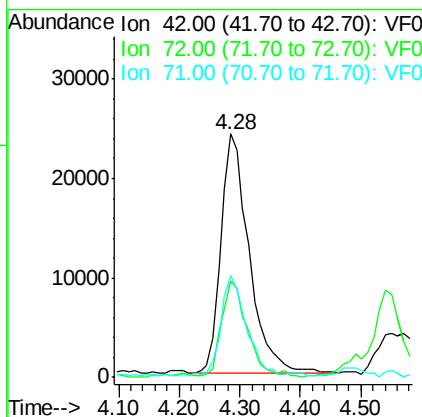
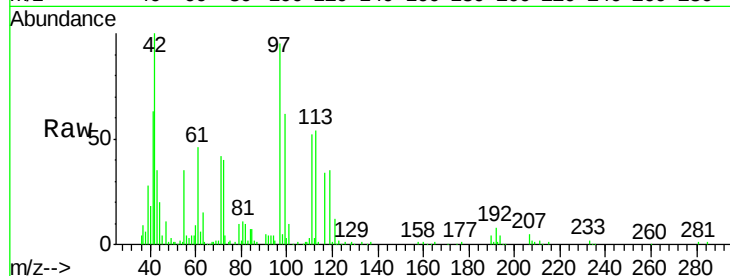
#29
Tetrahydrofuran
Concen: 94.380 ug/l
RT: 4.28 min Scan# 381
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.3	28.6	43.0
71	37.6	29.2	43.8

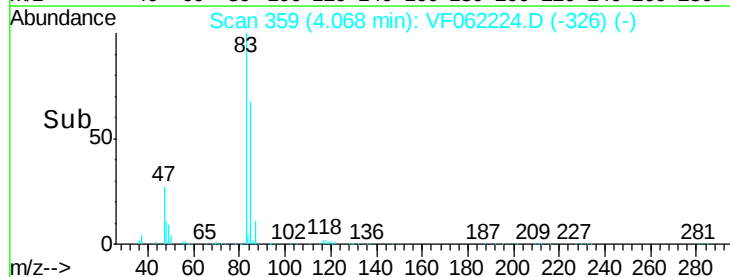
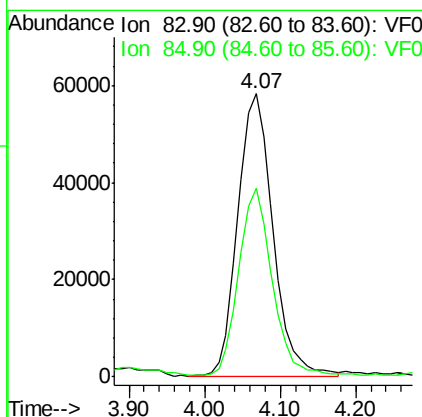
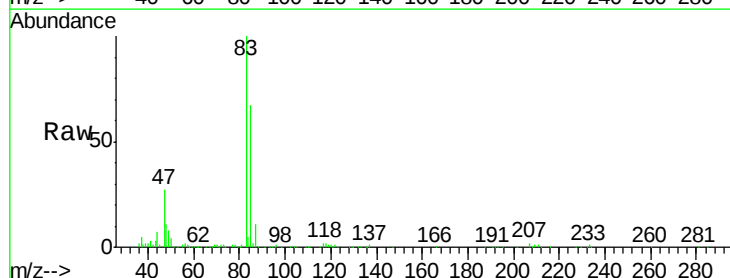
Manual Integrations
APPROVED

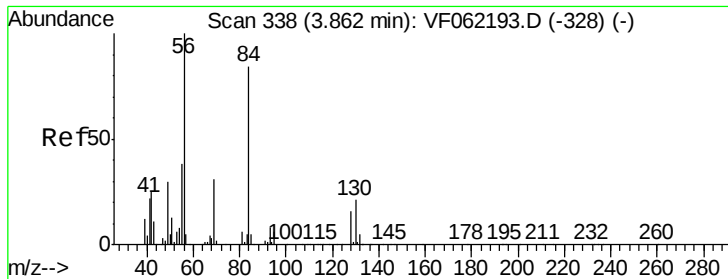
MMDadoda
4/23/2019 6:55:56 AM



#30
Chloroform
Concen: 20.644 ug/l
RT: 4.07 min Scan# 359
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.8	77.8





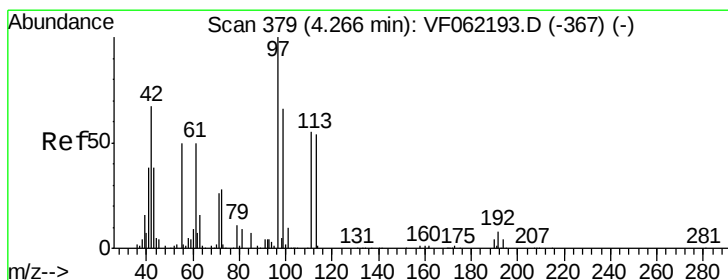
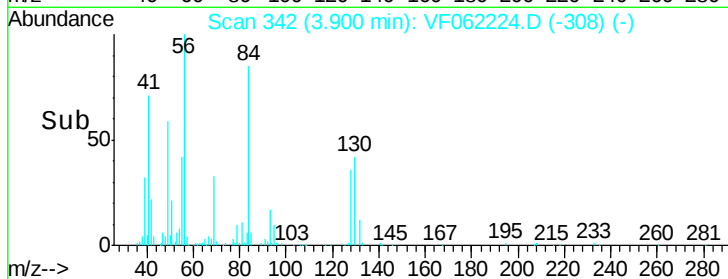
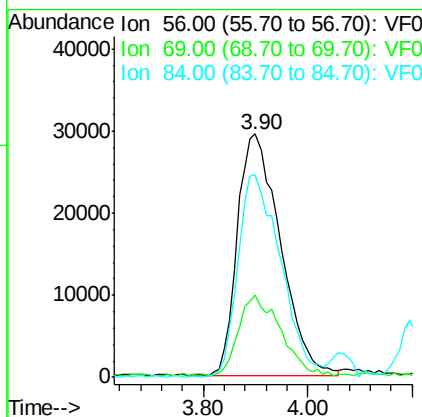
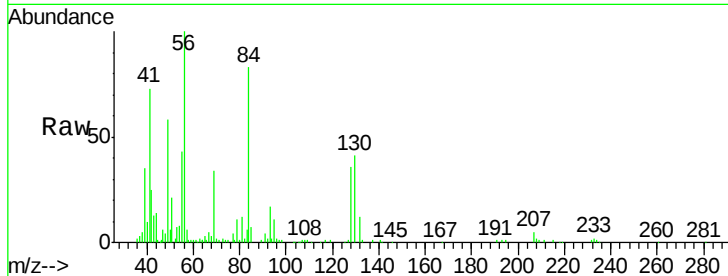
#31
Cyclohexane
Concen: 18.301 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.04 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.4	25.1	37.7
84	84.2	67.8	101.6

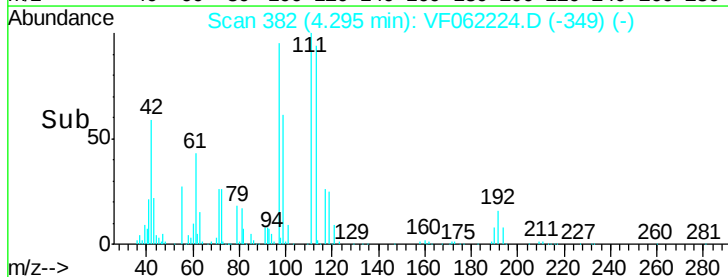
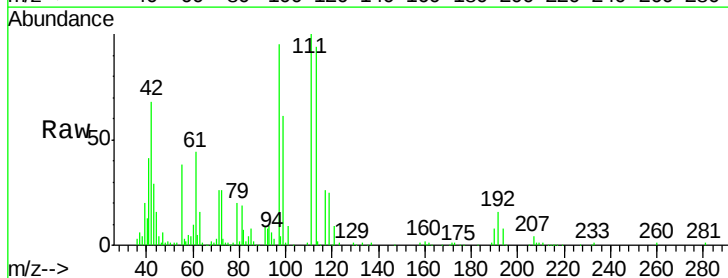
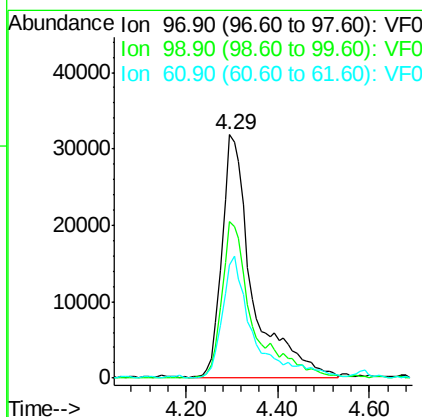
Manual Integrations
APPROVED

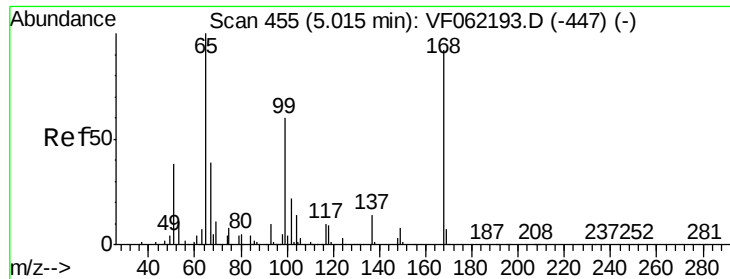
MMDadoda
4/23/2019 6:55:56 AM



#32
1,1,1-Trichloroethane
Concen: 21.845 ug/l
RT: 4.29 min Scan# 382
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.7	79.1
61	51.0	53.0	79.4#





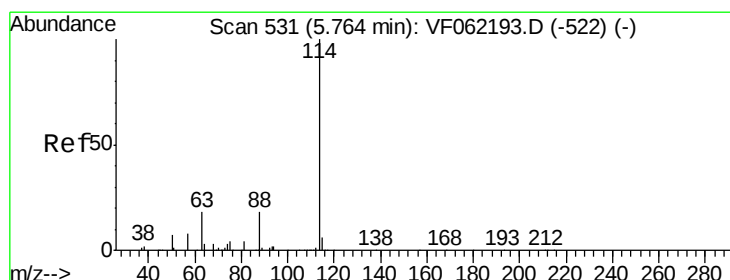
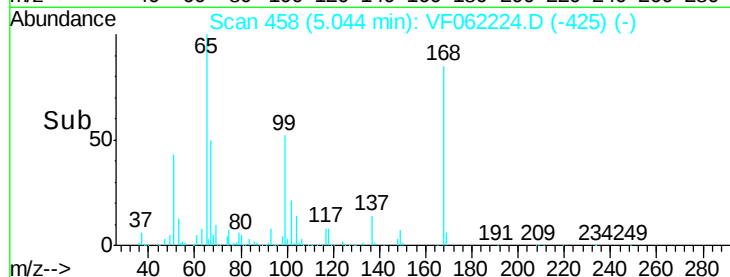
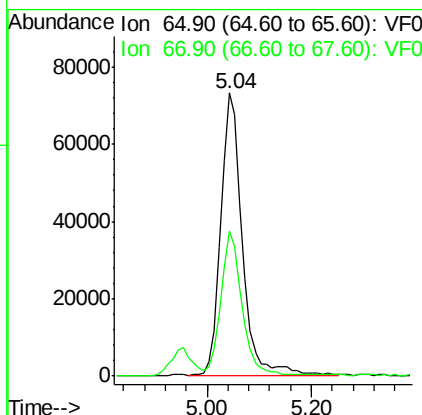
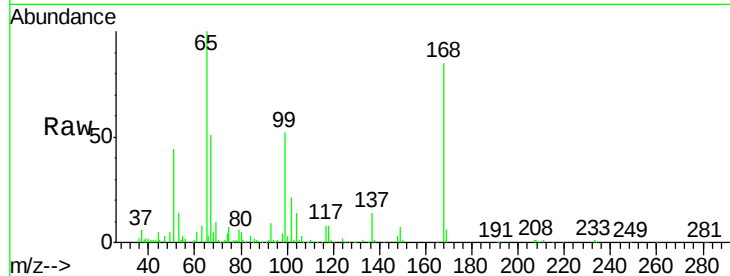
#33
 1,2-Dichloroethane-d4
 Concen: 54.005 ug/l
 RT: 5.04 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	207054		
67	49.8	0.0	109.4	

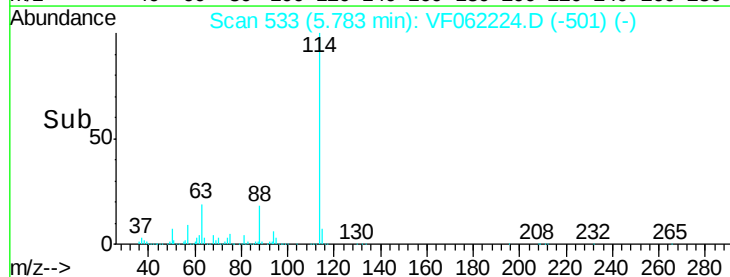
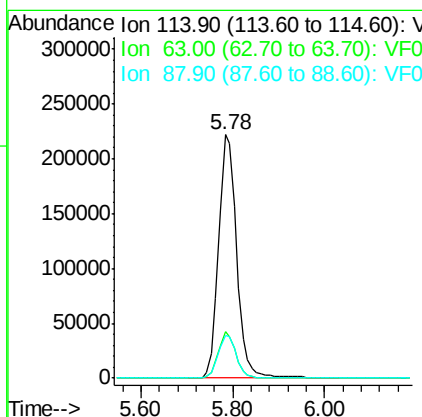
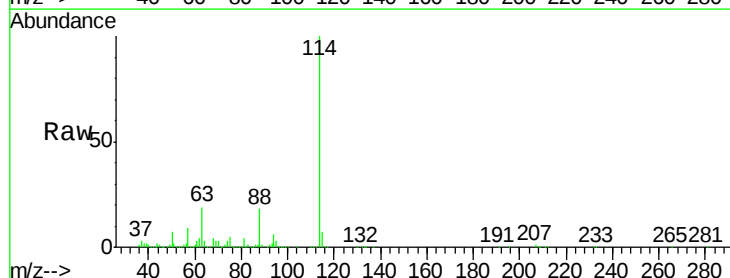
Manual Integrations
 APPROVED

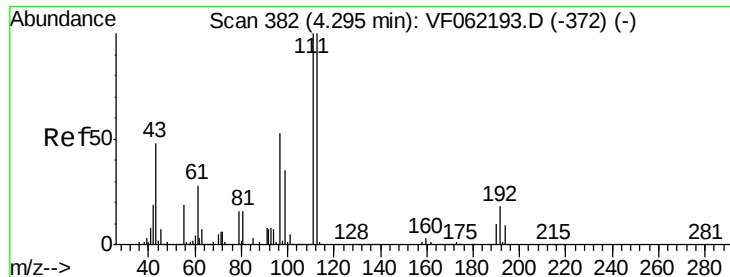
MMDadoda
 4/23/2019 6:55:56 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	604331		
63	19.1	0.0	36.6	
88	17.6	0.0	35.8	





#35

Dibromofluoromethane

Concen: 52.977 ug/l

RT: 4.32 min Scan# 385

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

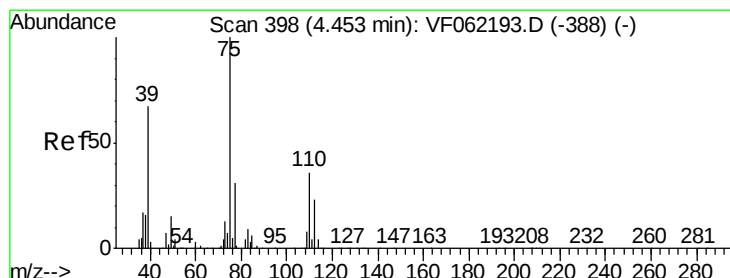
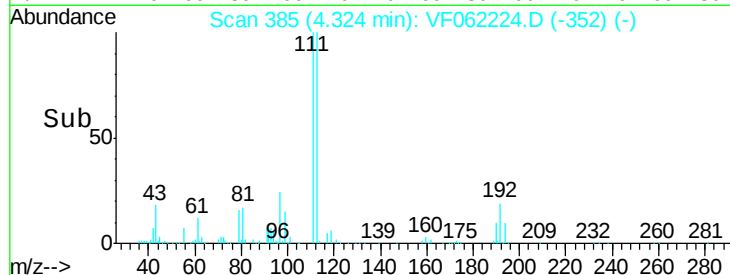
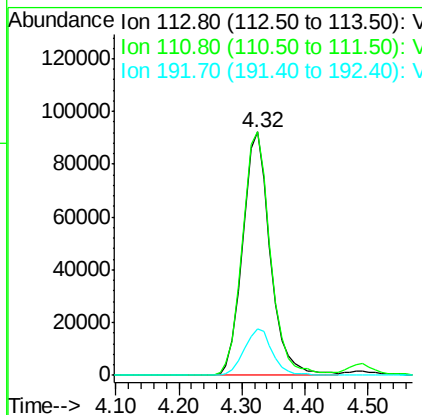
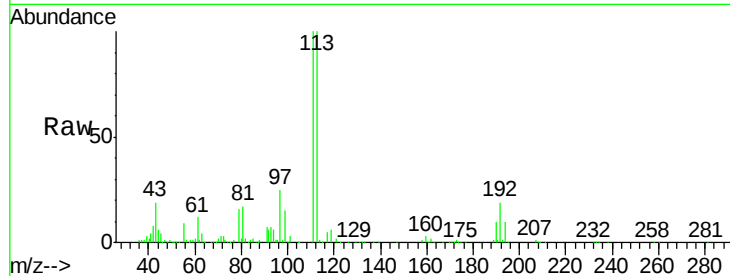
ClientSampleId :

VF0419SBS01

Tot Ion:	113	Resp:	280054
Ion Ratio	Lower	Upper	
113	100		
111	101.4	81.1	121.7
192	19.6	14.7	22.1

Manual Integrations
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4/23/2019 6:55:56 AM



#36

1,1-Dichloropropene

Concen: 19.506 ug/l

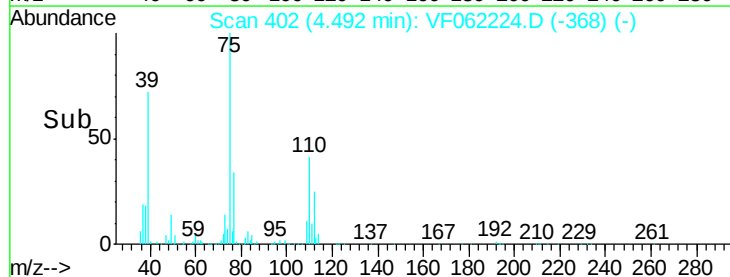
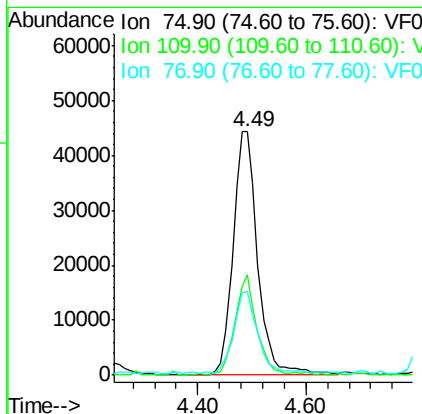
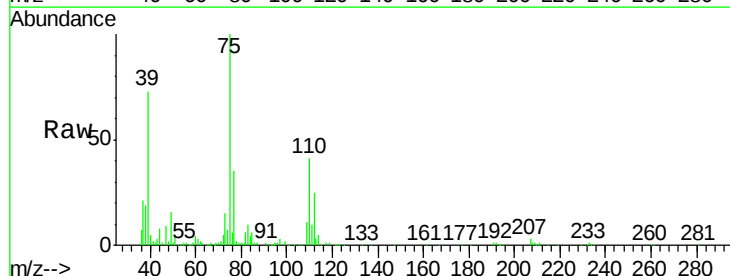
RT: 4.49 min Scan# 402

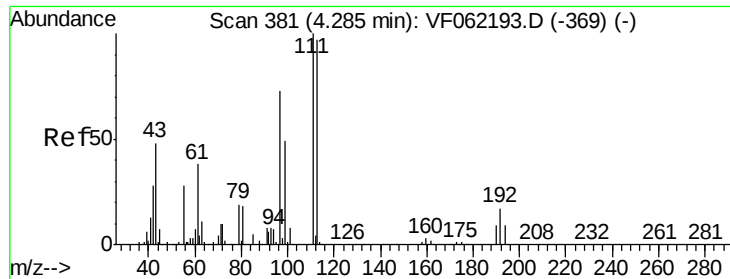
Delta R.T. 0.04 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	75	Resp:	141333
Ion Ratio	Lower	Upper	
75	100		
110	36.3	18.4	55.2
77	32.0	25.4	38.2





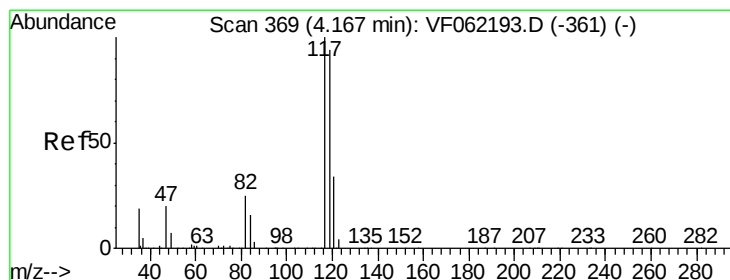
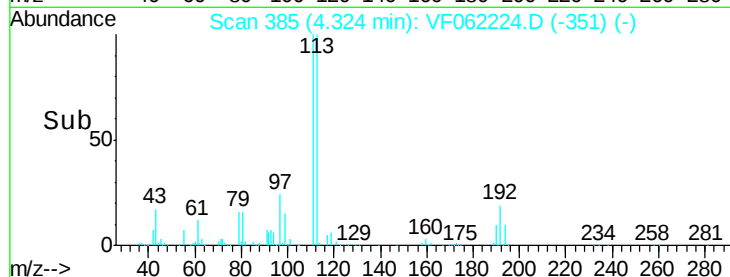
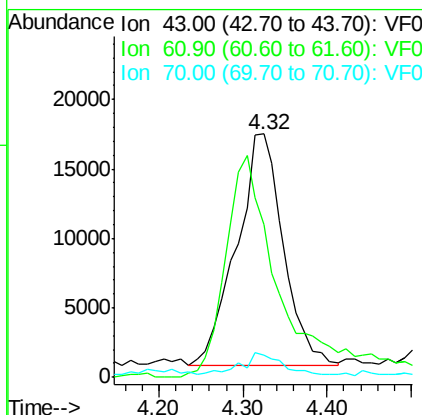
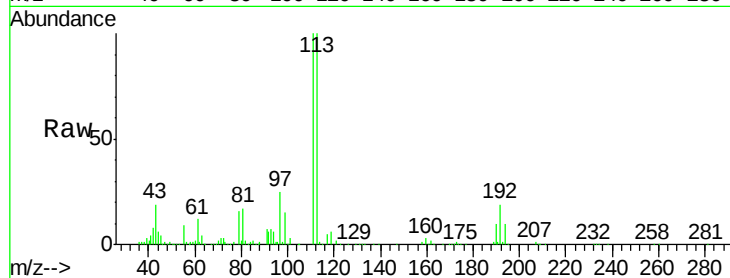
#37
Ethyl Acetate
Concen: 19.074 ug/l
RT: 4.32 min Scan# 385
Delta R.T. 0.04 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	43	Ratio	Lower	Upper
43	100			
61	114.8	0.0	0.0	
70	8.7	7.8	11.6	

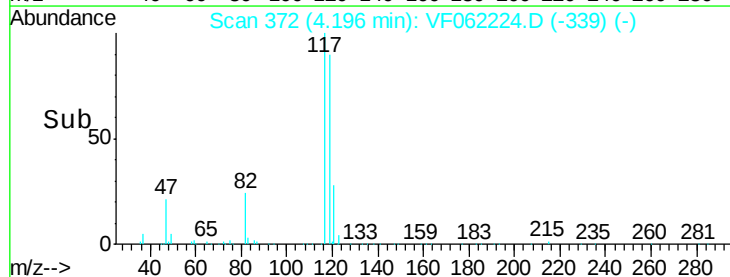
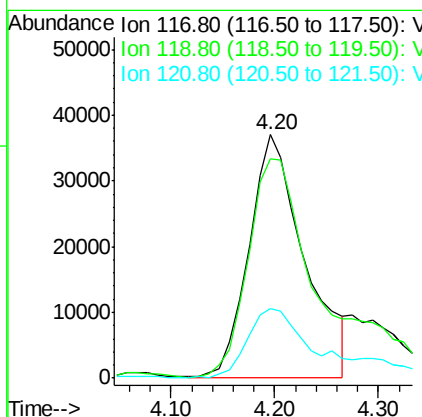
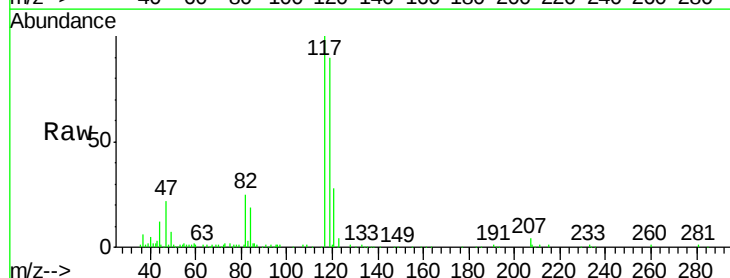
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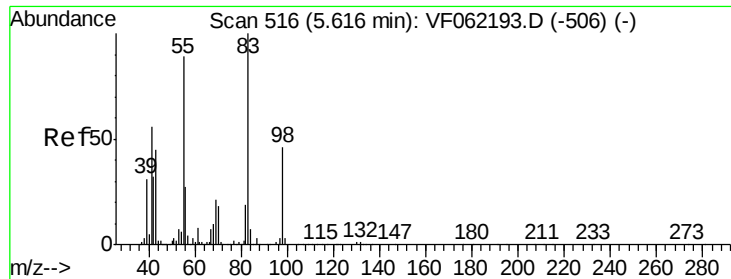
MMDadoda
4/23/2019 6:55:56 AM



#38
Carbon Tetrachloride
Concen: 21.517 ug/l m
RT: 4.20 min Scan# 372
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	117	Ratio	Lower	Upper
117	100			
119	90.0	75.0	112.4	
121	28.4	26.9	40.3	





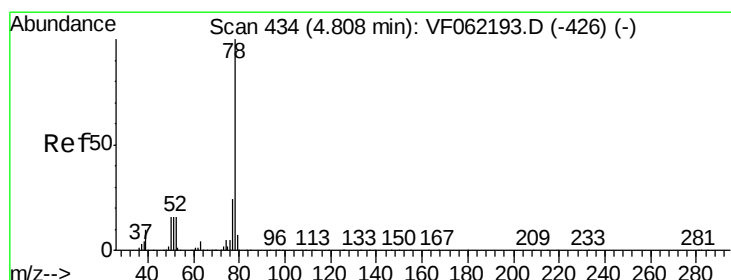
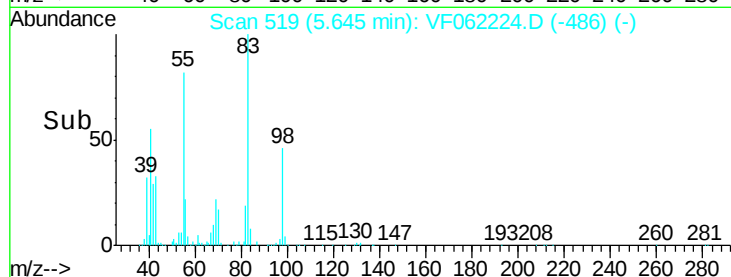
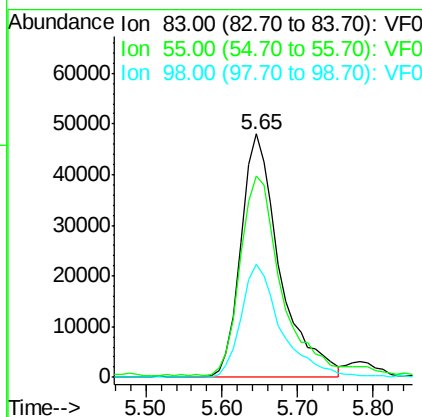
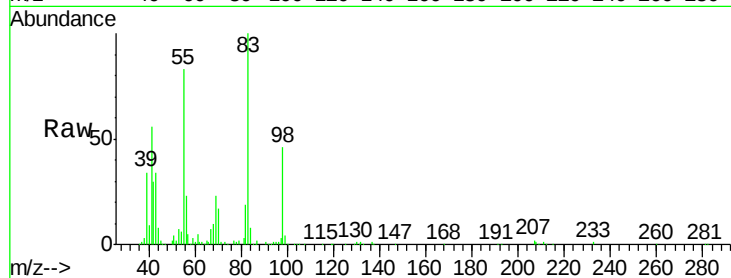
#39
Methvlcvclohexane
Concen: 19.807 ug/l
RT: 5.65 min Scan# 519
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.9	71.0	106.6
98	46.2	36.7	55.1

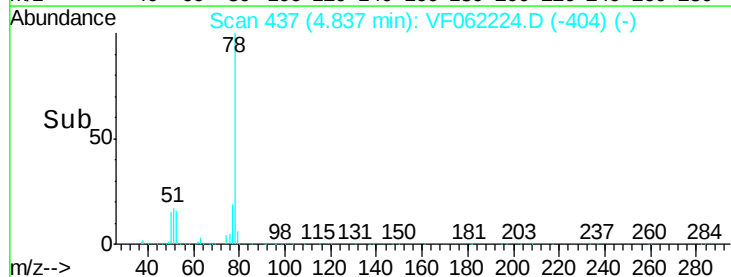
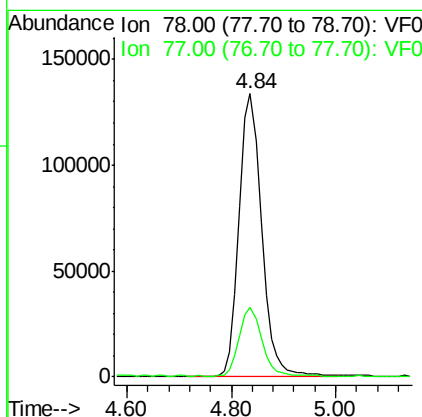
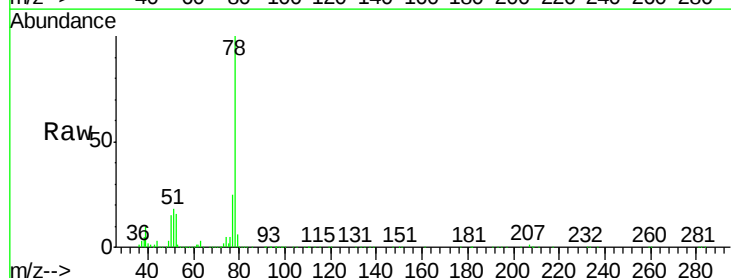
Manual Integrations
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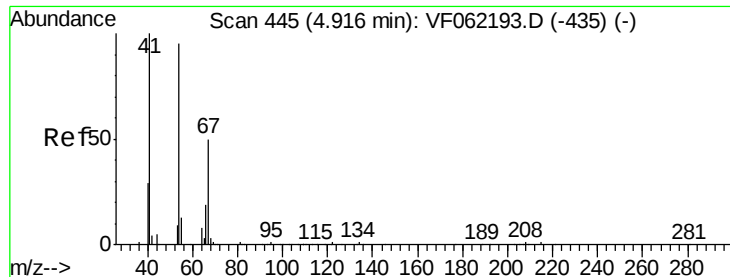
MMDadoda
4/23/2019 6:55:56 AM



#40
Benzene
Concen: 20.664 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.9	28.3





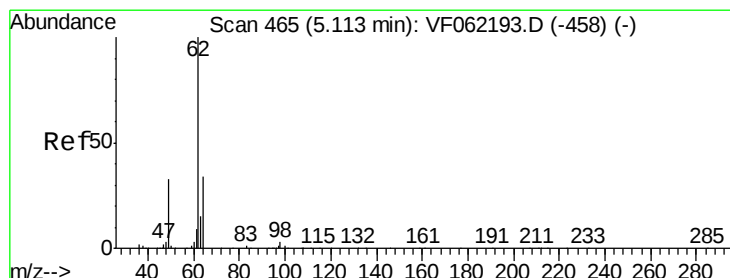
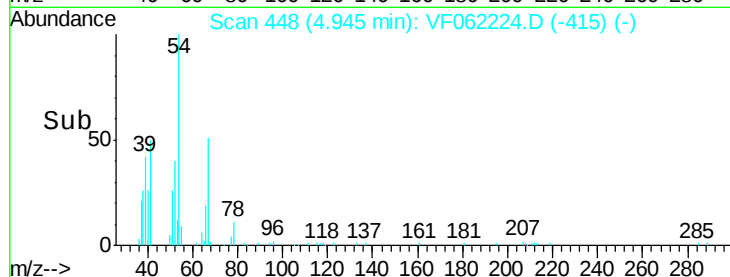
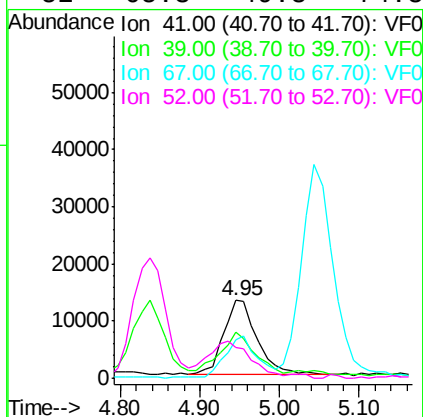
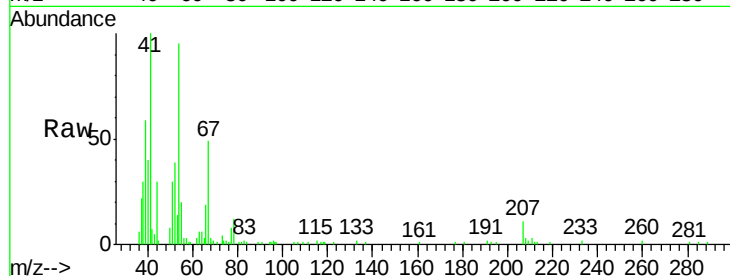
#41
Methacrylonitrile
Concen: 19.894 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ion	Ratio	Lower	Upper
39234	41	100		
	39	58.2	44.7	67.1
	67	54.7	39.1	58.7
	52	65.3	49.8	74.8

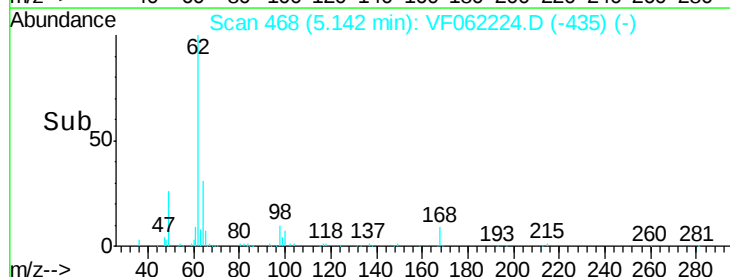
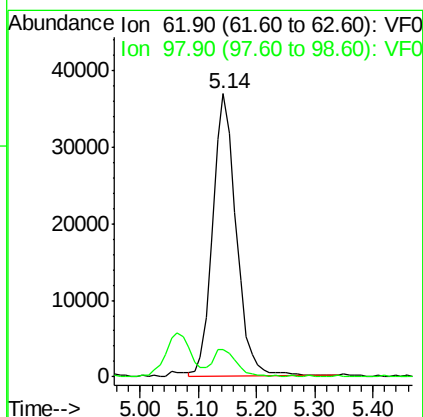
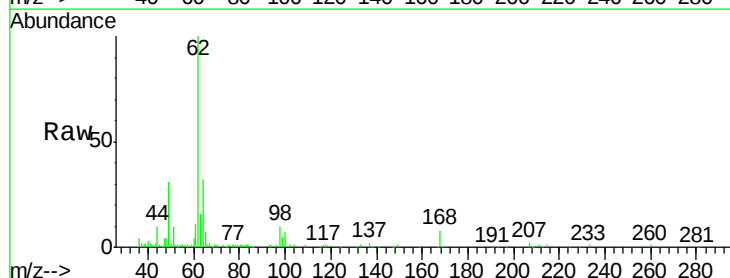
Manual Integrations
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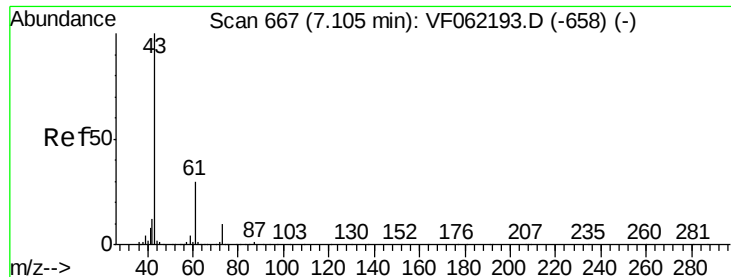
MMDadoda
4/23/2019 6:55:56 AM



#42
1,2-Dichloroethane
Concen: 20.603 ug/l
RT: 5.14 min Scan# 468
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ion	Ratio	Lower	Upper
103513	62	100		
	98	10.0	0.0	19.0





#43

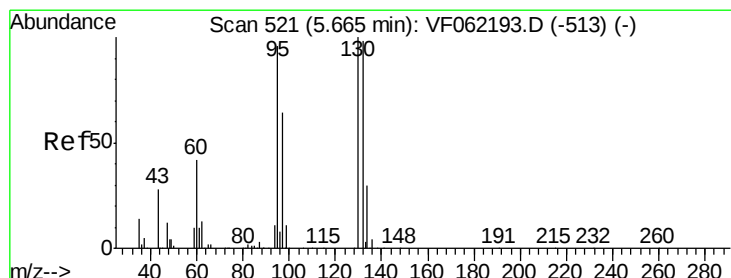
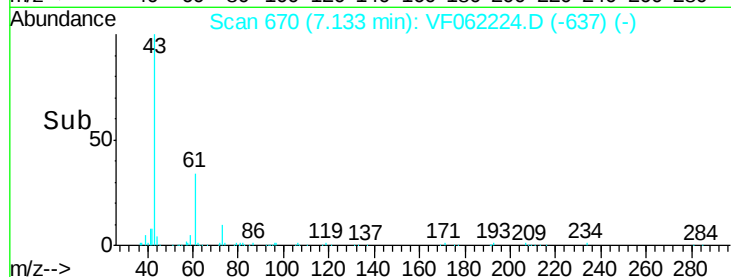
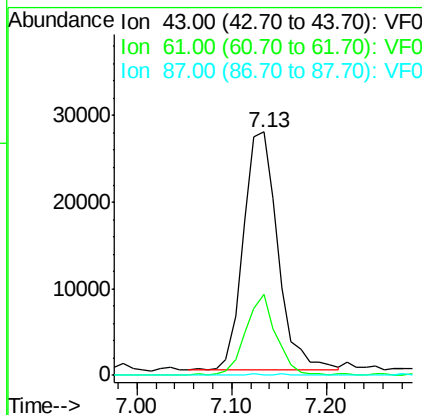
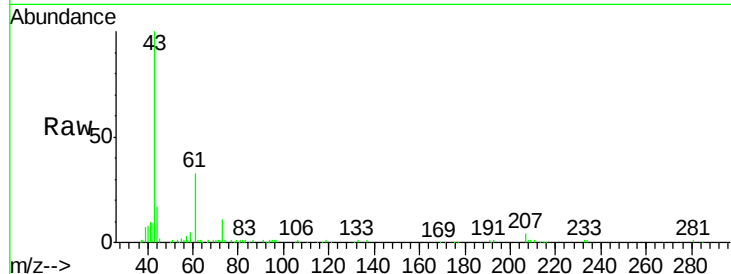
Isopropyl Acetate
 Concen: 19.405 ug/l
 RT: 7.13 min Scan# 670
 Delta R.T. 0.03 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.0	24.4	36.6
87	0.4	0.4	0.6

Manual Integrations
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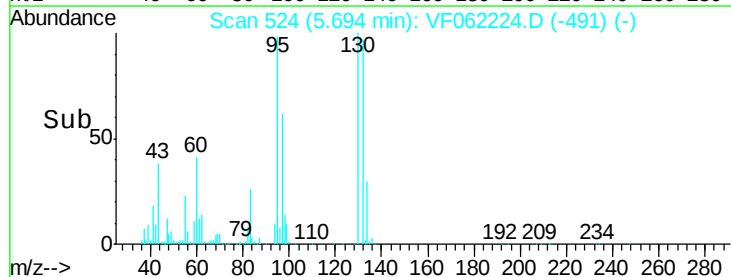
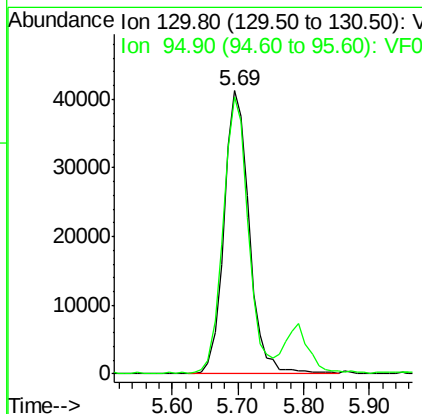
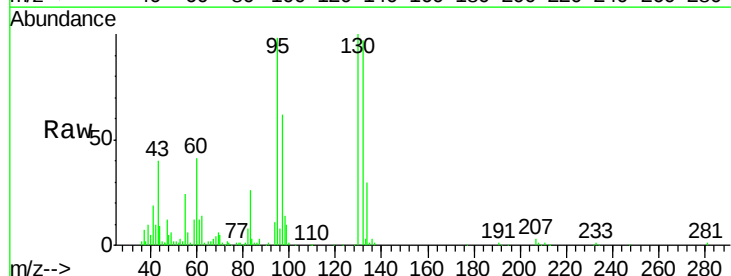
MMDadoda
 4/23/2019 6:55:56 AM

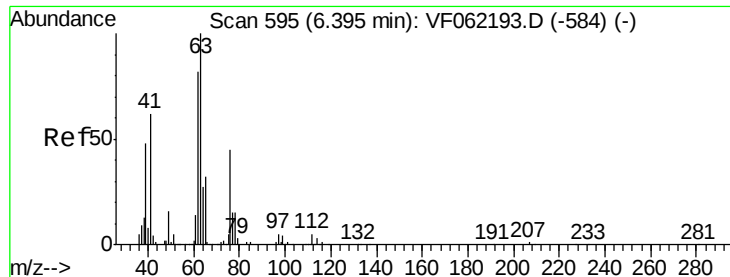


#44

Trichloroethene
 Concen: 21.562 ug/l
 RT: 5.69 min Scan# 524
 Delta R.T. 0.03 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	191.4





#45

1,2-Dichloropropane

Concen: 20.054 ug/l

RT: 6.42 min Scan# 598

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 63 Resp: 83953

Ion Ratio Lower Upper

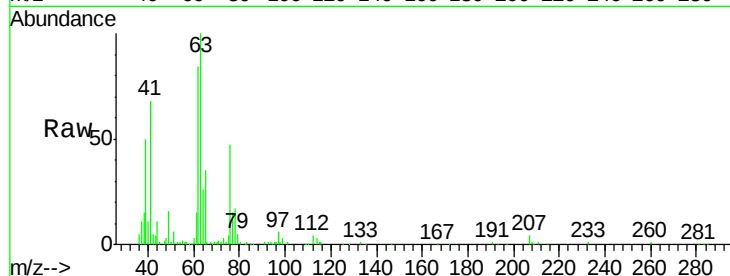
63 100

65 34.2 25.9 38.9

Manual Integrations
APPROVED

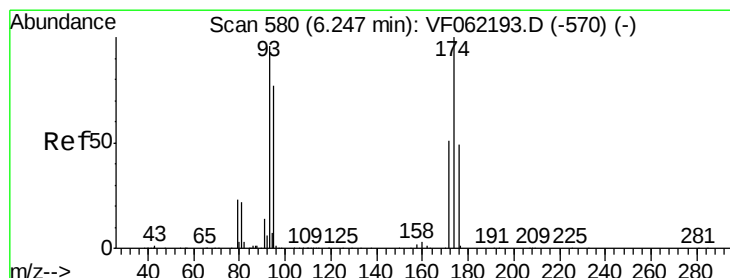
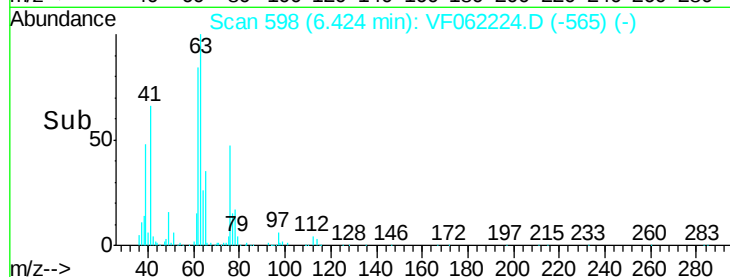
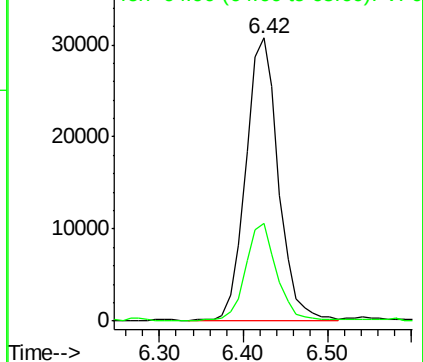
MMDadoda

4/23/2019 6:55:56 AM



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 64.90 (64.60 to 65.60): VF0



#46

Dibromomethane

Concen: 20.773 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

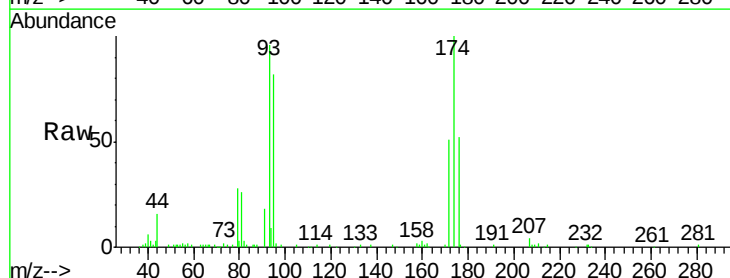
Tgt Ion: 93 Resp: 57858

Ion Ratio Lower Upper

93 100

95 84.3 65.1 97.7

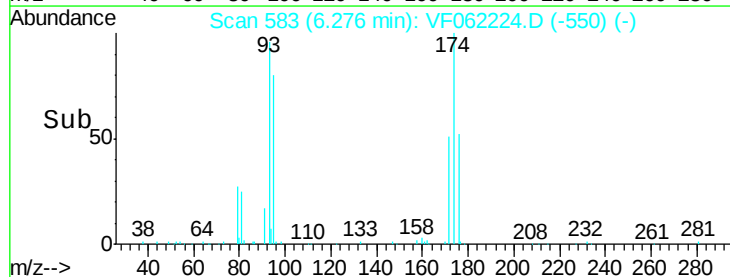
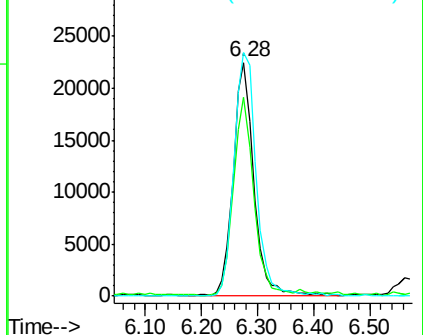
174 111.4 81.8 122.6

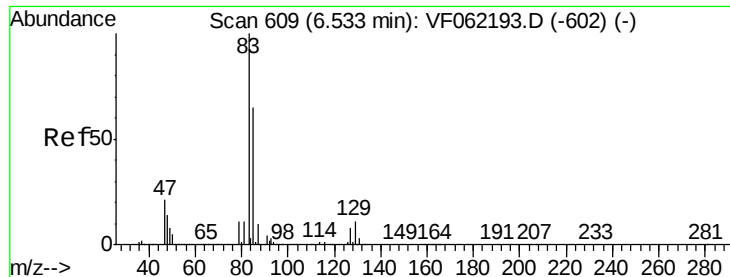


Abundance Ion 92.80 (92.50 to 93.50): VF0

Ion 94.80 (94.50 to 95.50): VF0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 20.816 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

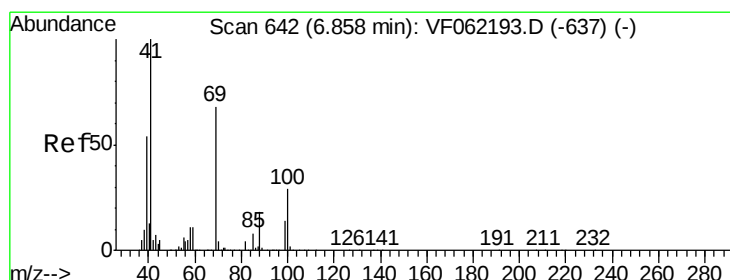
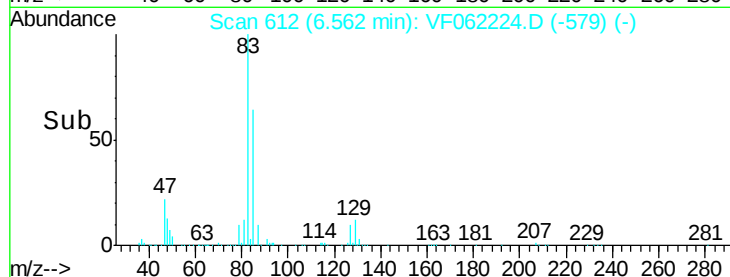
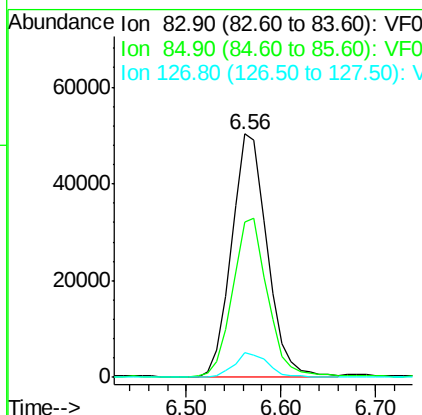
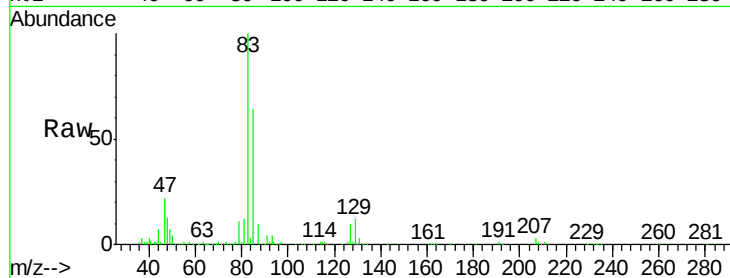
ClientSampleId :

VF0419SBS01

Tot Ion:	83	Resp:	130831
Ion Ratio	Lower	Upper	
83	100		
85	63.8	52.2	78.4
127	10.3	6.7	10.1#

Manual Integrations
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MMDadoda
4/23/2019 6:55:56 AM



#48

Methyl methacrylate

Concen: 19.094 ug/l

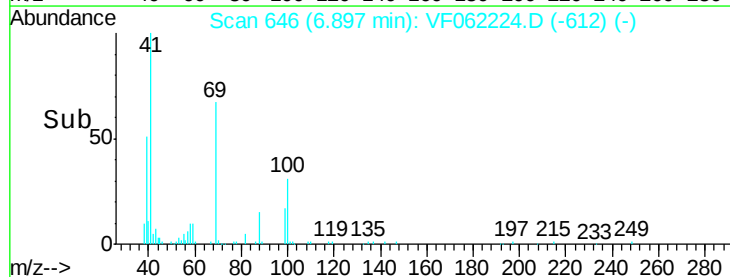
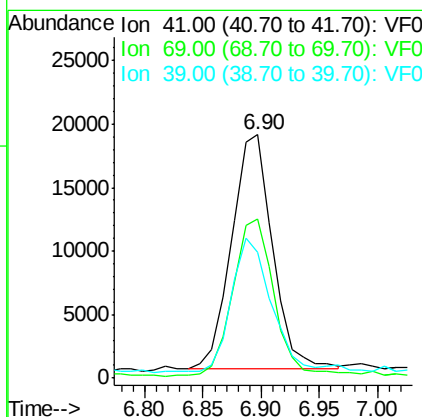
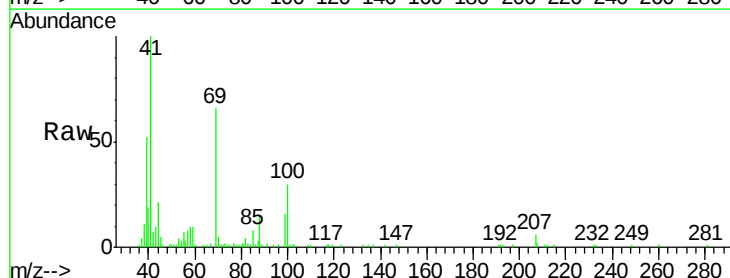
RT: 6.90 min Scan# 646

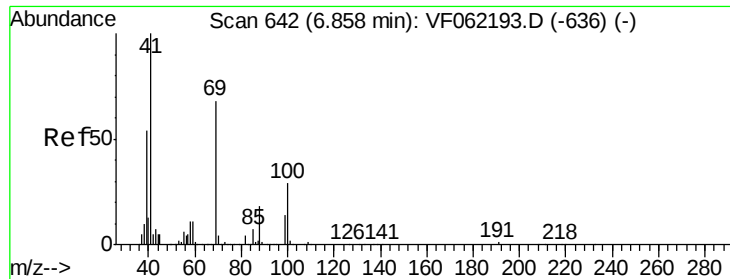
Delta R.T. 0.04 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	41	Resp:	45124
Ion Ratio	Lower	Upper	
41	100		
69	68.6	54.9	82.3
39	57.0	43.6	65.4





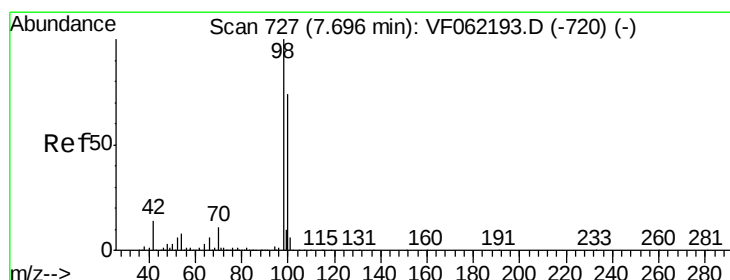
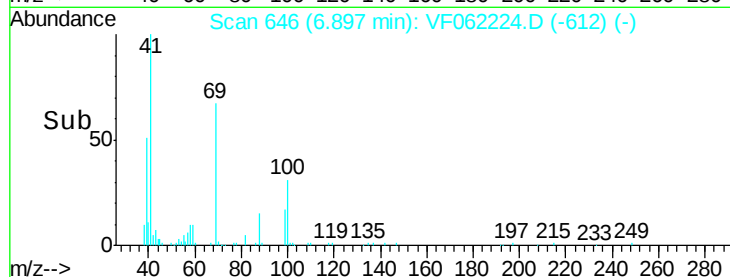
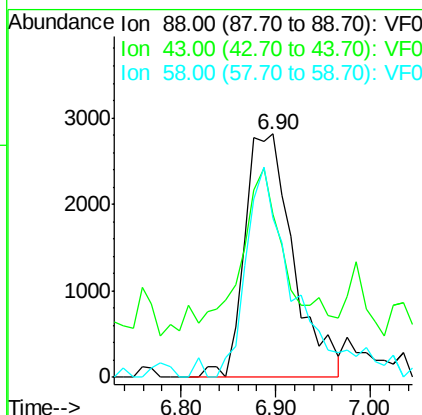
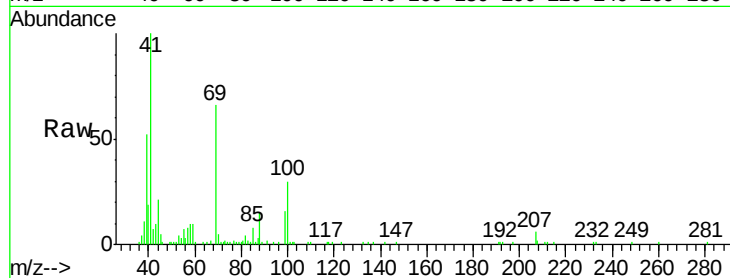
#49
1,4-Dioxane
Concen: 369.926 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.04 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	60.9	36.9	55.3#	
58	88.8	56.8	85.2#	

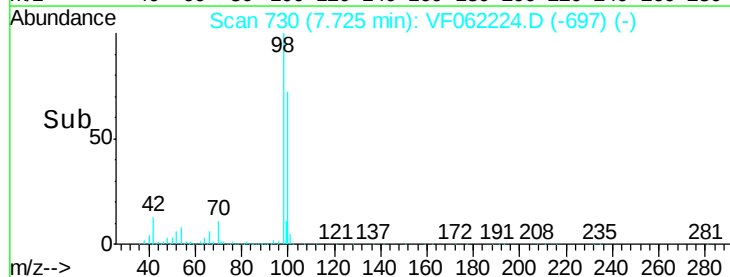
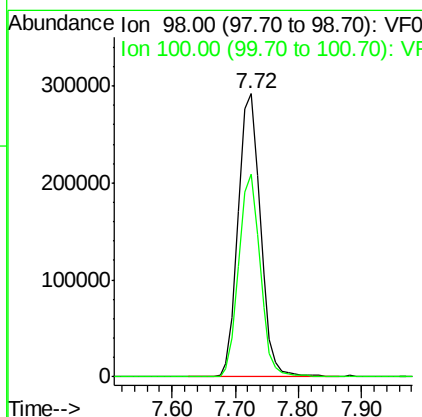
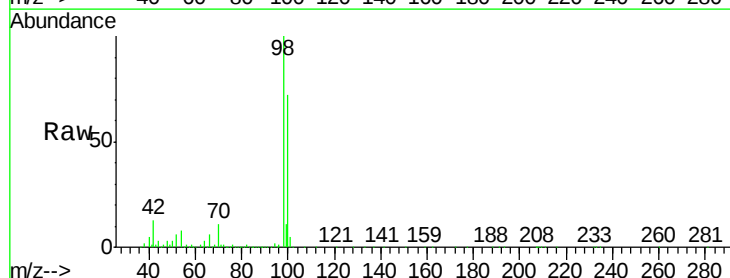
Manual Integrations
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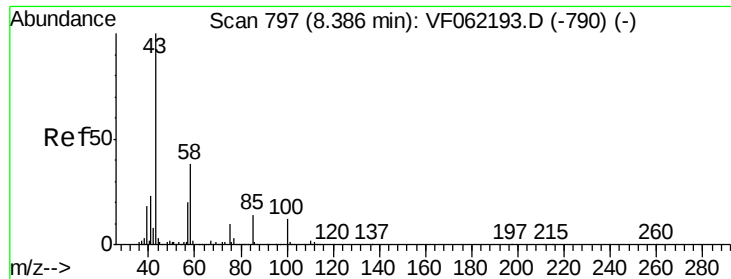
MMDadoda
4/23/2019 6:55:56 AM



#50
Toluene-d8
Concen: 53.390 ug/l
RT: 7.72 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	68.9	56.2	84.2	





#51

4-Methyl-2-Pentanone

Concen: 98.710 ug/l

RT: 8.41 min Scan# 800

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 43 Resp: 264016

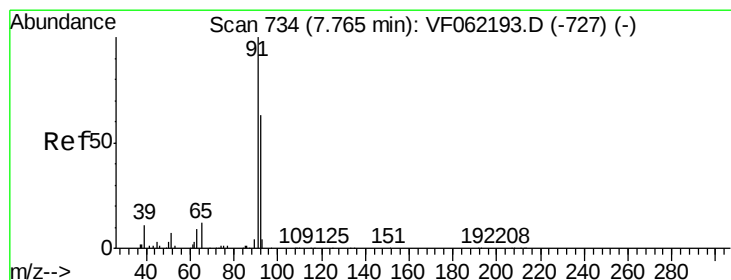
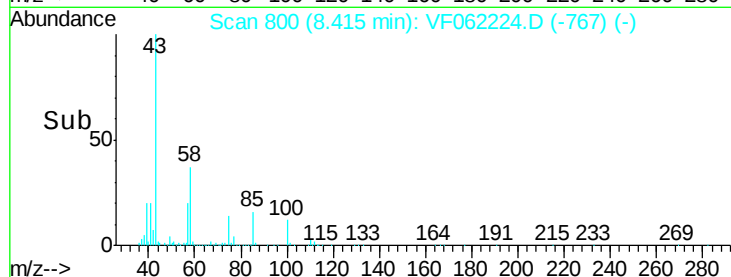
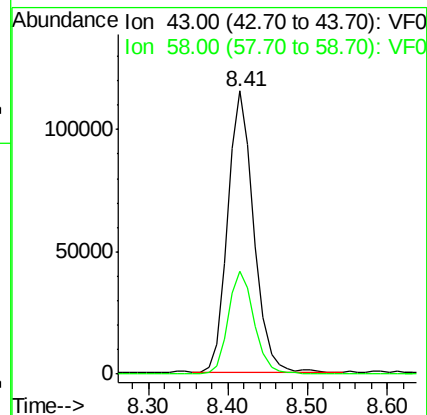
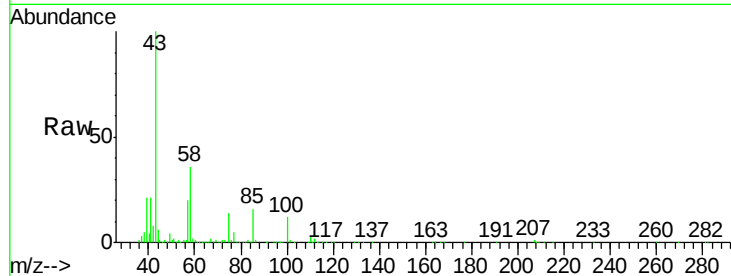
Ion Ratio Lower Upper

43 100

58 36.8 29.3 43.9

Manual Integrations
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MMDadoda
4/23/2019 6:55:56 AM



#52

Toluene

Concen: 20.122 ug/l

RT: 7.79 min Scan# 737

Delta R.T. 0.03 min

Lab File: VF062224.D

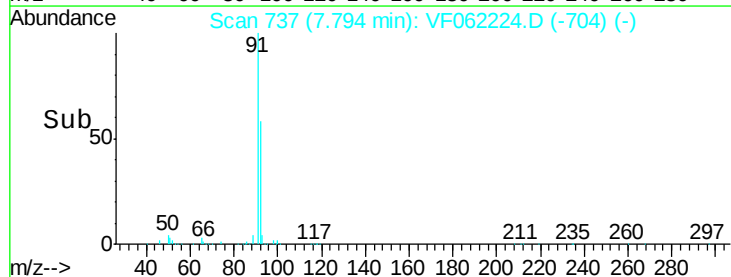
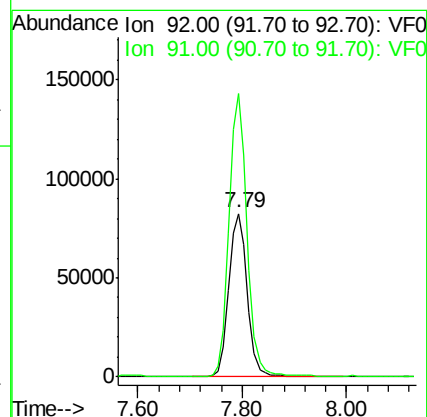
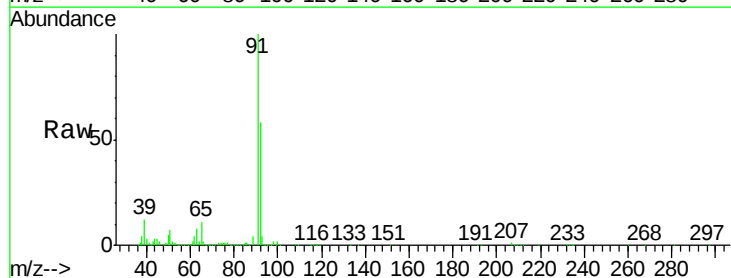
Acq: 19 Apr 2019 14:51

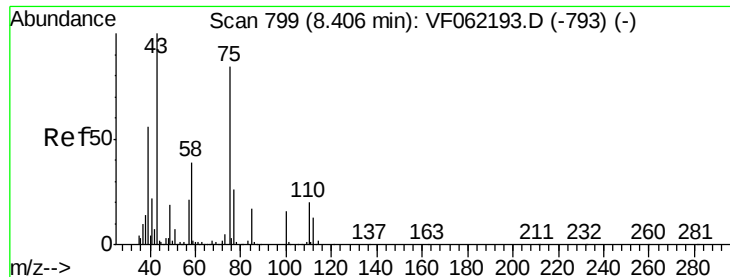
Tgt Ion: 92 Resp: 201584

Ion Ratio Lower Upper

92 100

91 169.3 130.1 195.1





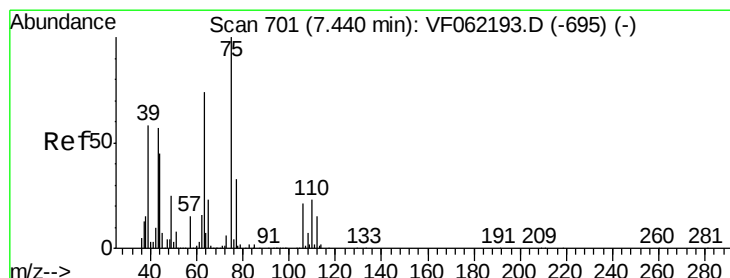
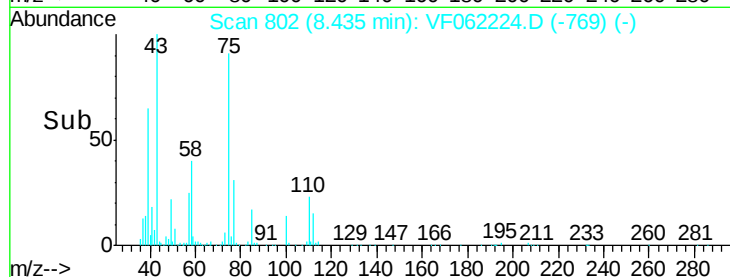
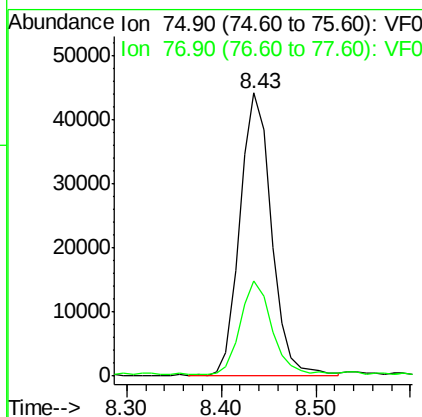
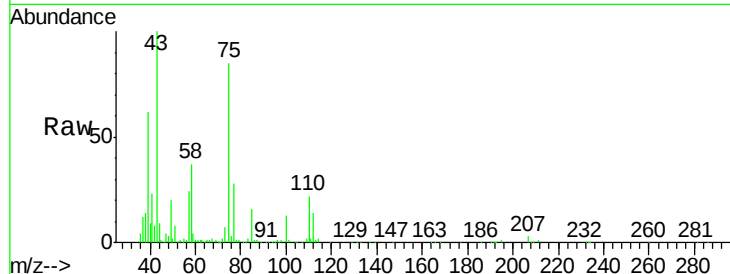
#53
t-1,3-Dichloropropene
Concen: 21.520 ug/l
RT: 8.43 min Scan# 802
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.9	24.6	36.8

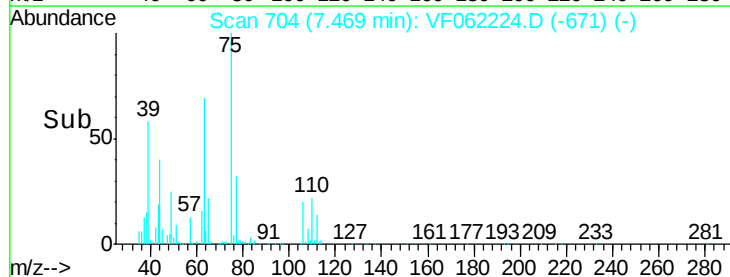
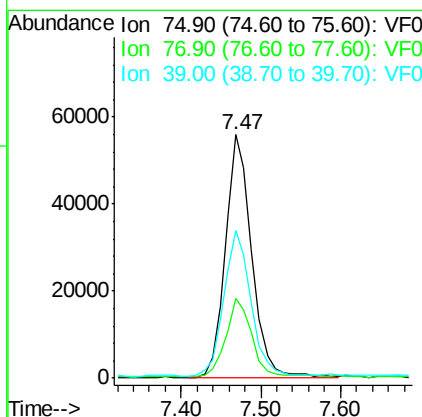
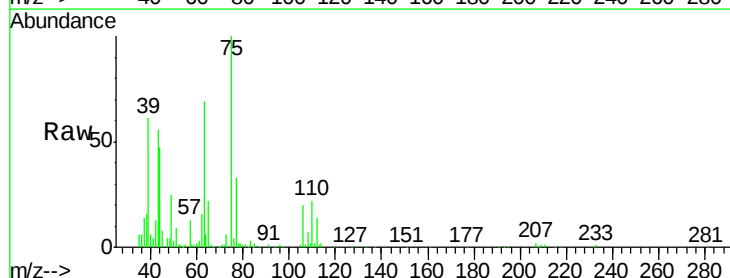
Manual Integrations
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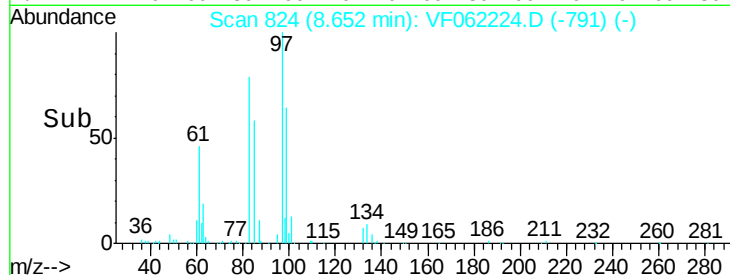
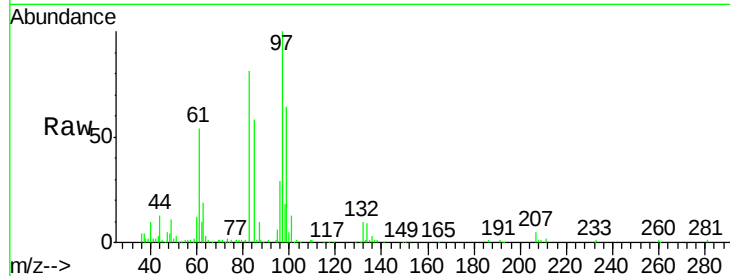
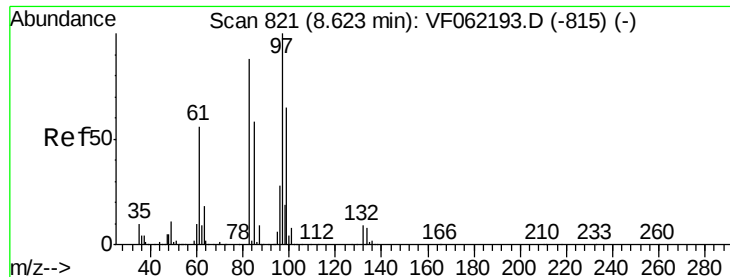
MMDadoda
4/23/2019 6:55:56 AM



#54
cis-1,3-Dichloropropene
Concen: 20.171 ug/l
RT: 7.47 min Scan# 704
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

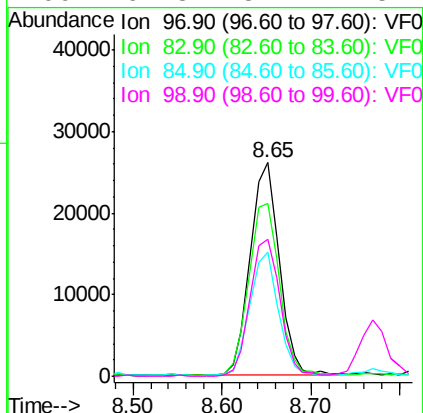
Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.4	39.6
39	60.1	46.7	70.1





#55
1,1,2-Trichloroethane
Concen: 21.013 ug/l
RT: 8.65 min Scan# 824
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

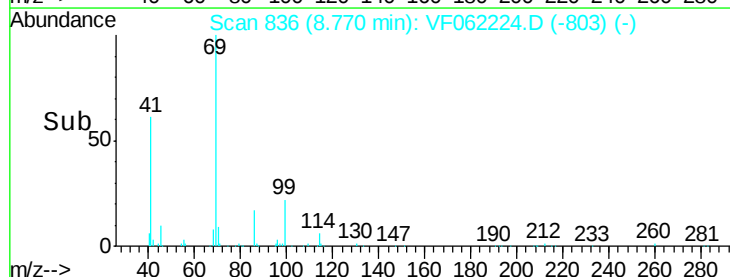
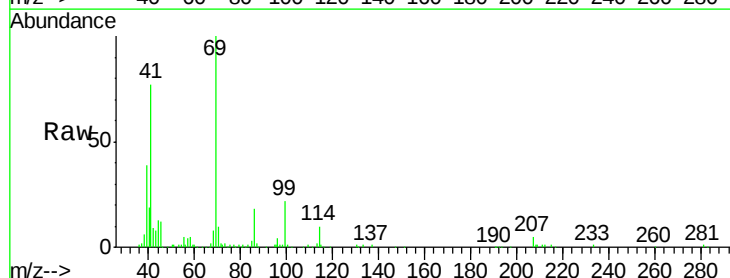
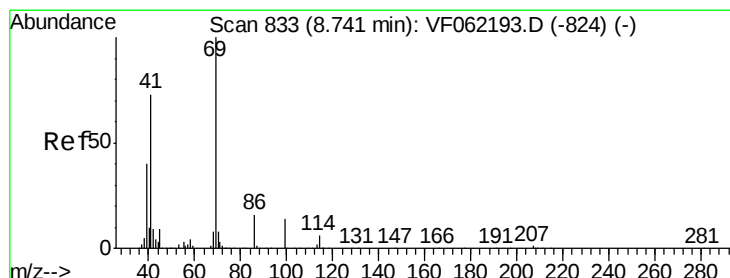
Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		58971		
83	80.9	70.2	105.2		
85	57.9	46.2	69.4		
99	64.3	52.2	78.4		



Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

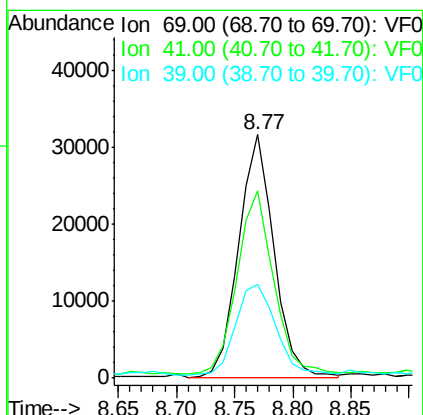
Manual Integrations
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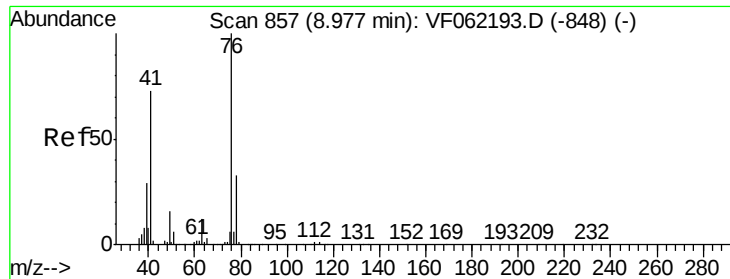
MMDadoda
4/23/2019 6:55:56 AM



#56
Ethyl methacrylate
Concen: 20.662 ug/l
RT: 8.77 min Scan# 836
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		65927		
41	77.7	61.5	92.3		
39	43.3	33.3	49.9		





#57

1,3-Dichloropropane

Concen: 21.433 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tot Ion: 76 Resp: 97130

Ion Ratio Lower Upper

76 100

78 32.9 26.5 39.7

Instrument :

MSVOA_F

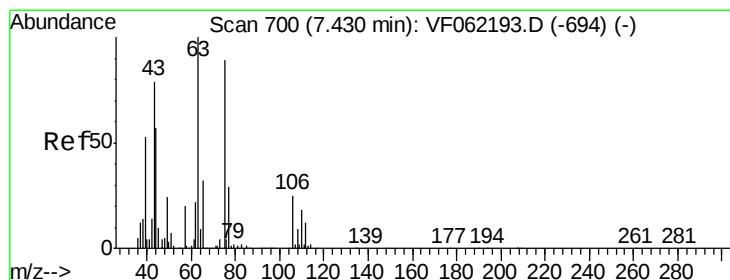
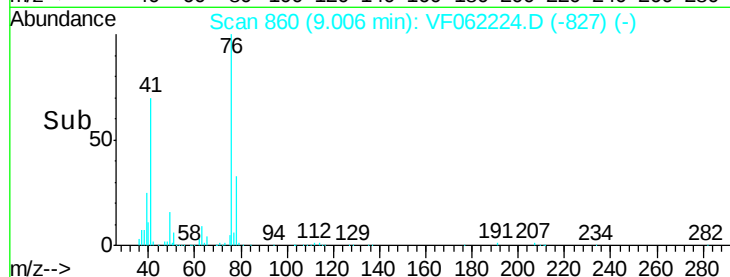
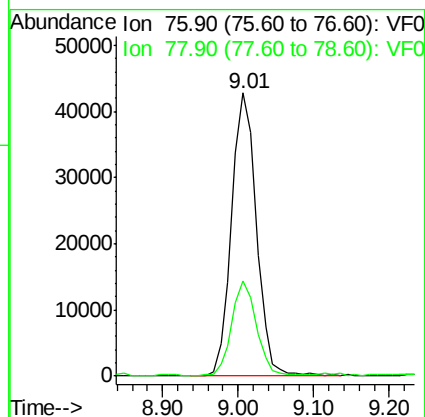
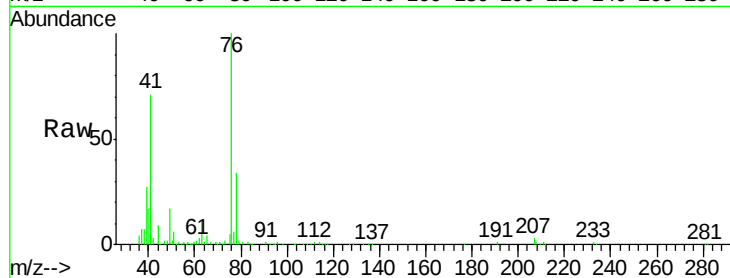
ClientSampleId :

VF0419SBS01

Manual Integrations
APPROVED

MMDadoda

4/23/2019 6:55:56 AM



#58

2-Chloroethyl Vinyl ether

Concen: 106.462 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.03 min

Lab File: VF062224.D

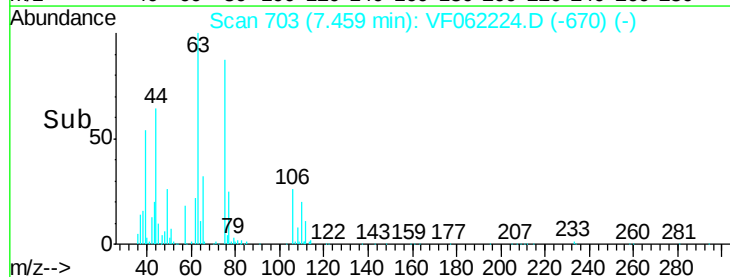
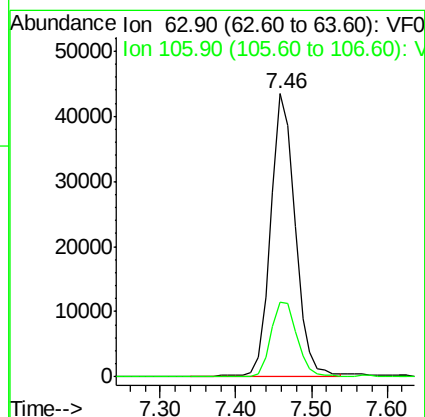
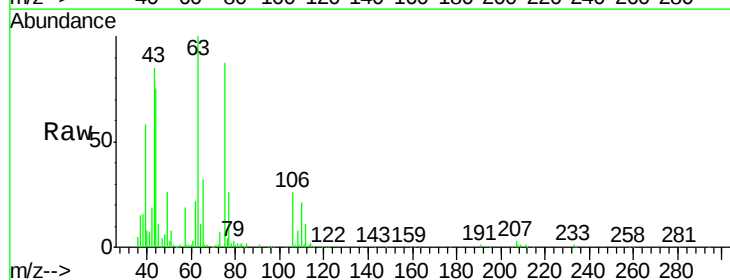
Acq: 19 Apr 2019 14:51

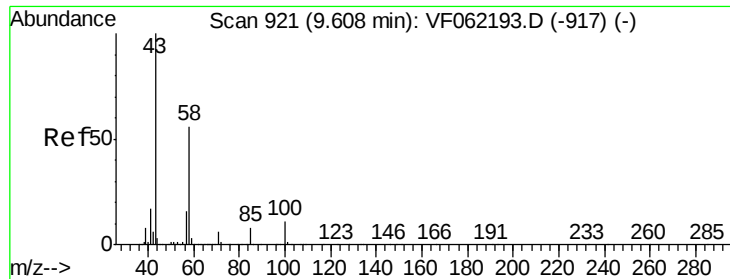
Tgt Ion: 63 Resp: 98625

Ion Ratio Lower Upper

63 100

106 28.1 21.4 32.0





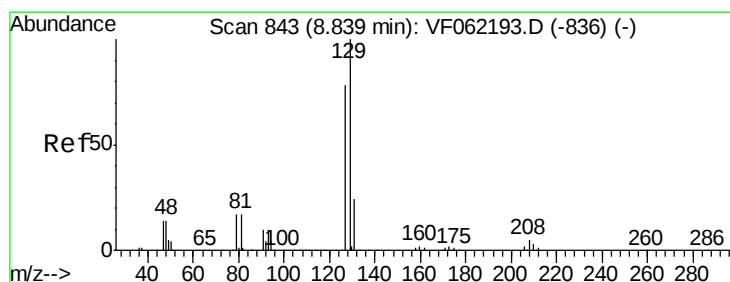
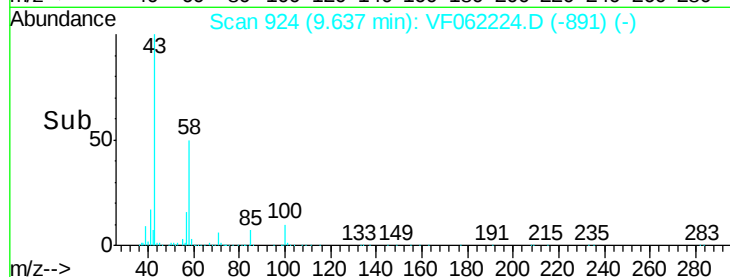
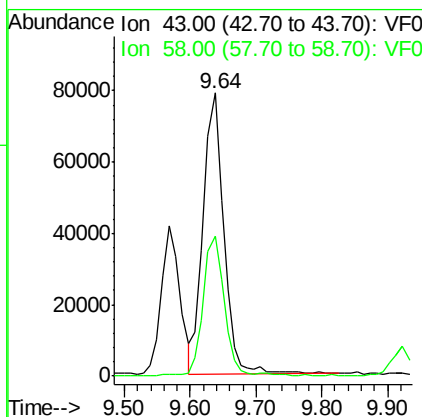
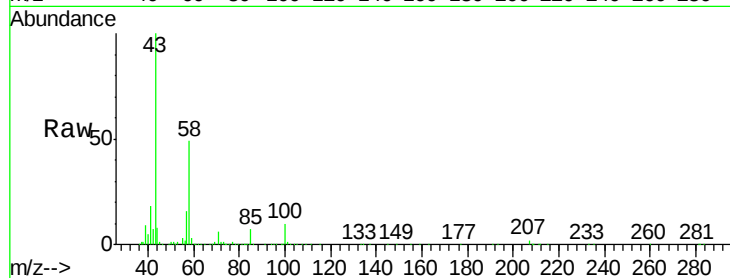
#59
2-Hexanone
Concen: 100.226 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.2	24.6	74.0

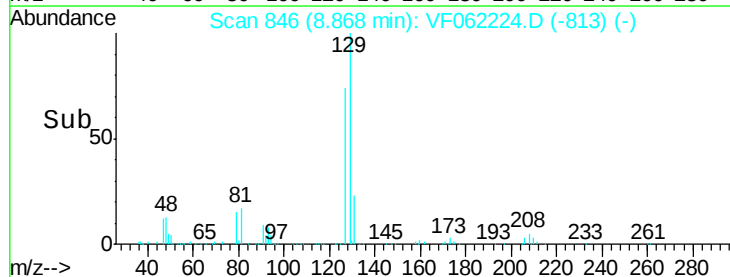
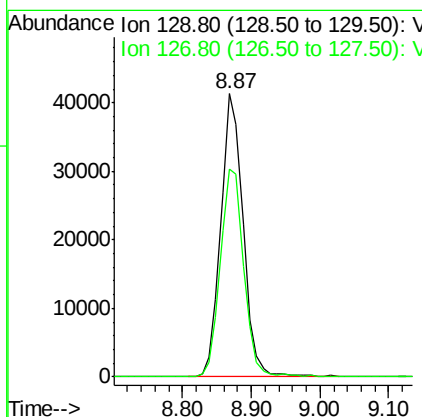
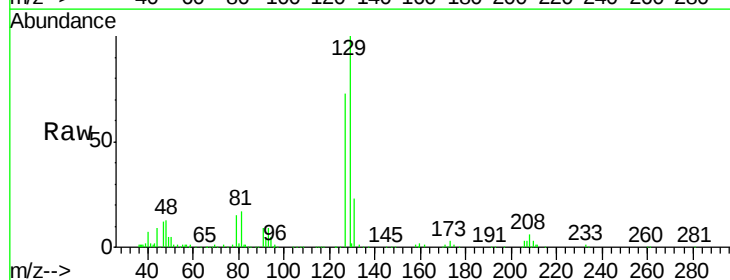
Manual Integrations
APPROVED

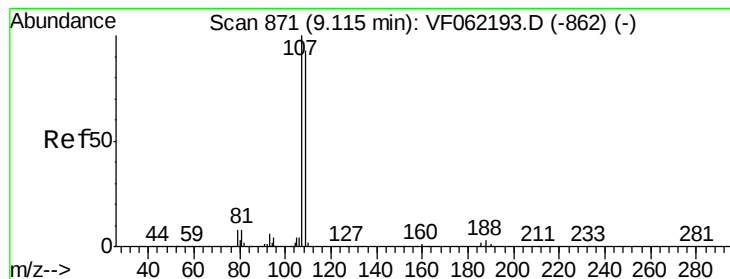
MMDadoda
4/23/2019 6:55:56 AM



#60
Dibromochloromethane
Concen: 22.364 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.4	39.0	117.0





#61

1,2-Dibromoethane

Concen: 22.398 ug/l

RT: 9.14 min Scan# 874

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 107 Resp: 70818

Ion Ratio Lower Upper

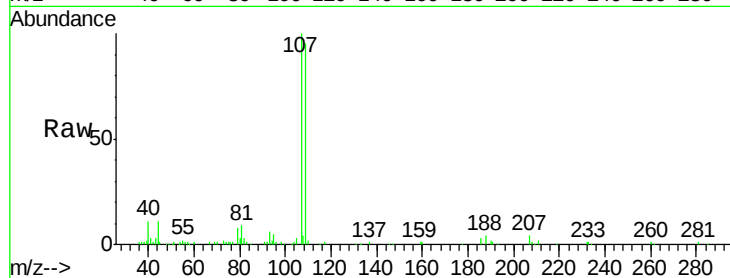
107 100

109 94.2 74.3 111.5

Manual Integrations
APPROVED

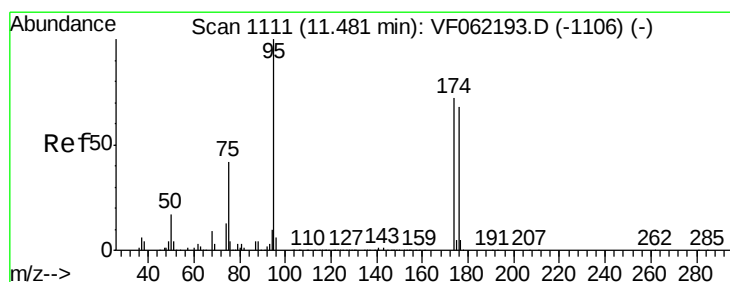
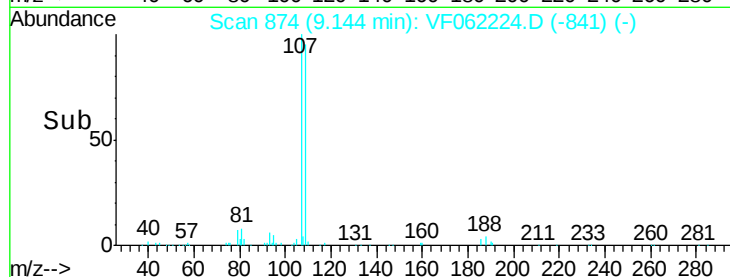
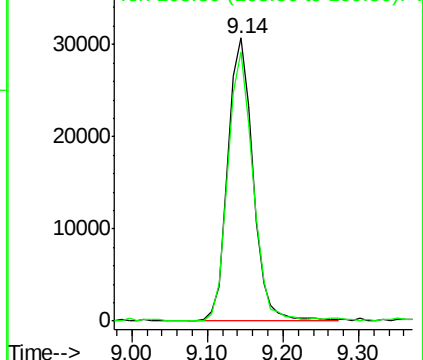
MMDadoda

4/23/2019 6:55:56 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 54.857 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

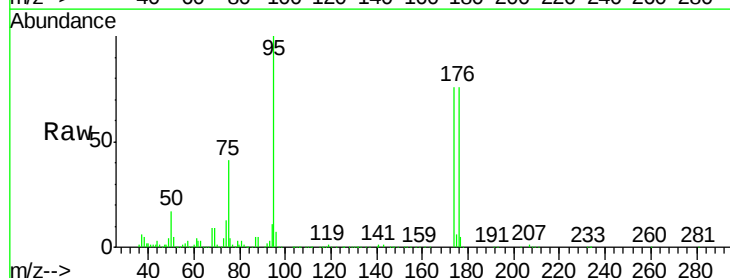
Tgt Ion: 95 Resp: 282394

Ion Ratio Lower Upper

95 100

174 87.3 0.0 159.4

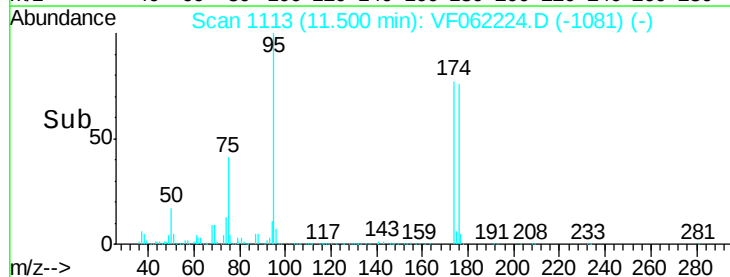
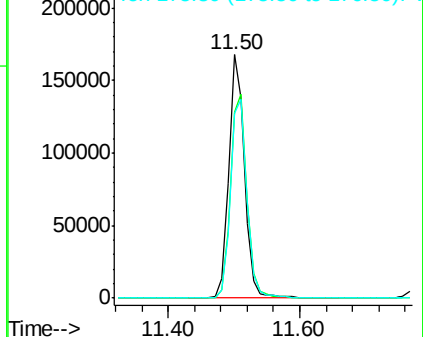
176 85.9 0.0 155.4

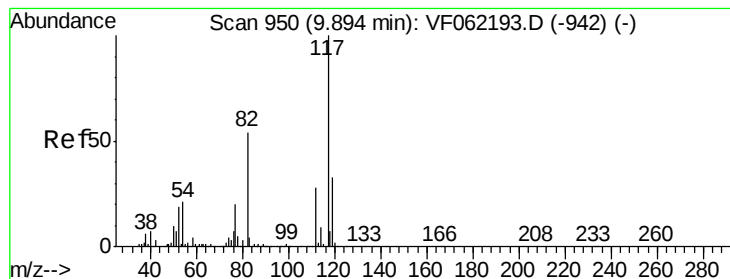


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

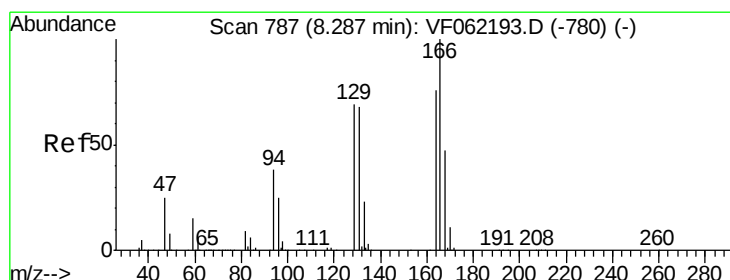
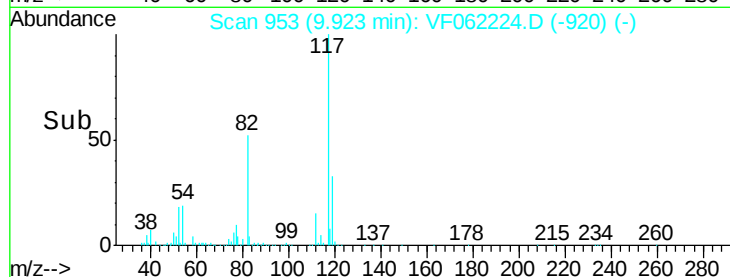
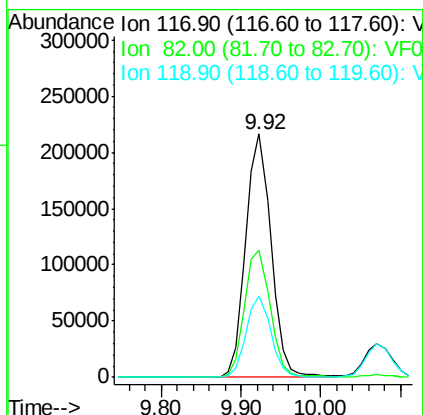
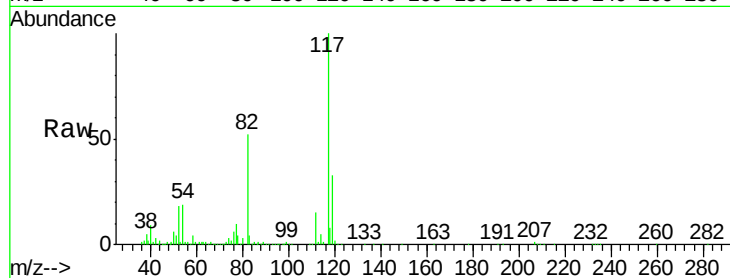
ClientSampleId :

VF0419SBS01

Tot Ion:	117	Resp:	476705
Ion Ratio	Lower	Upper	
117	100		
82	52.0	43.2	64.8
119	33.2	26.2	39.4

Manual Integrations
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MMDadoda
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#64

Tetrachloroethene

Concen: 22.571 ug/l

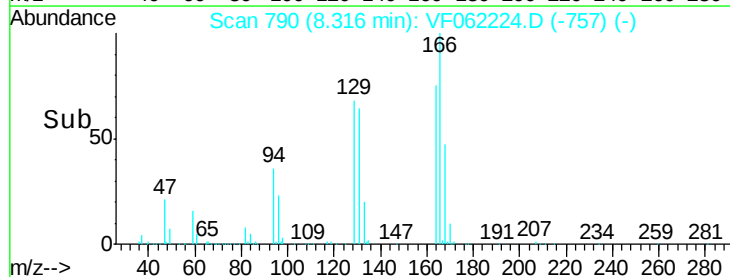
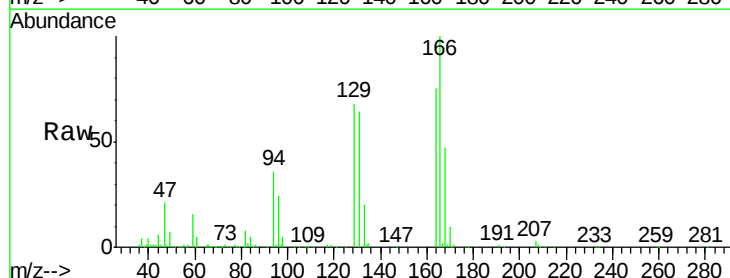
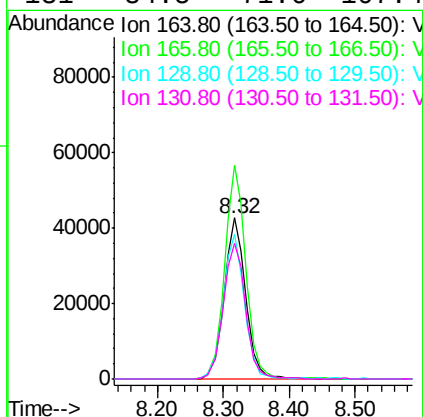
RT: 8.32 min Scan# 790

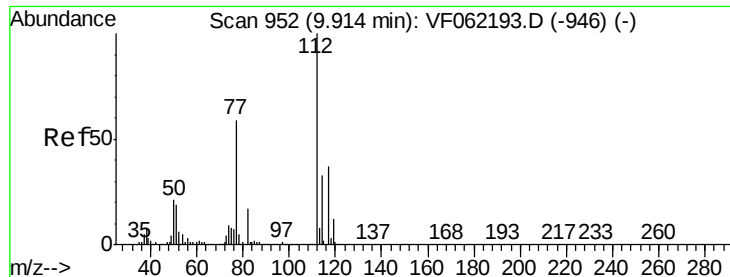
Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	164	Resp:	97128
Ion Ratio	Lower	Upper	
164	100		
166	132.6	104.7	157.1
129	90.2	72.6	109.0
131	84.5	71.6	107.4





#65

Chlorobenzene

Concen: 21.870 ug/l

RT: 9.94 min Scan# 955

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion:112 Resp: 222302

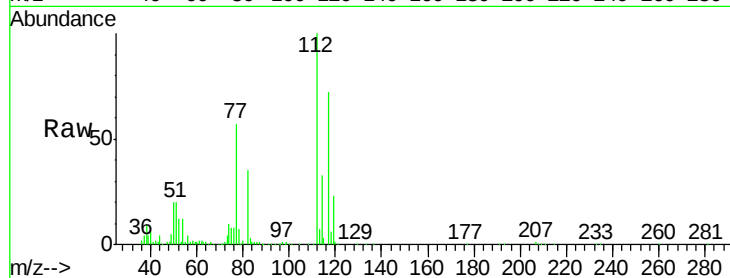
Ion Ratio Lower Upper

112 100

114 32.9 26.1 39.1

Manual Integrations
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

120000

100000

80000

60000

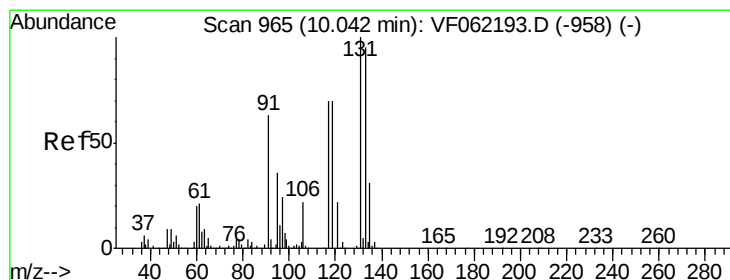
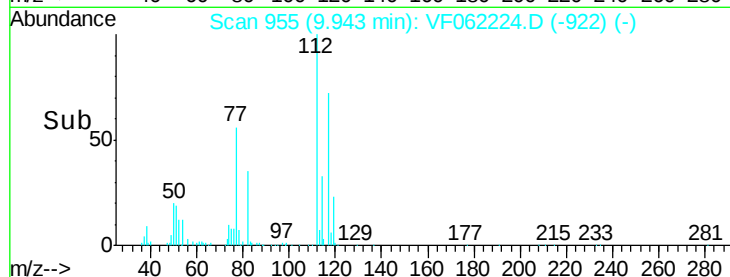
40000

20000

0

9.80 9.90 10.00 10.10

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 21.034 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

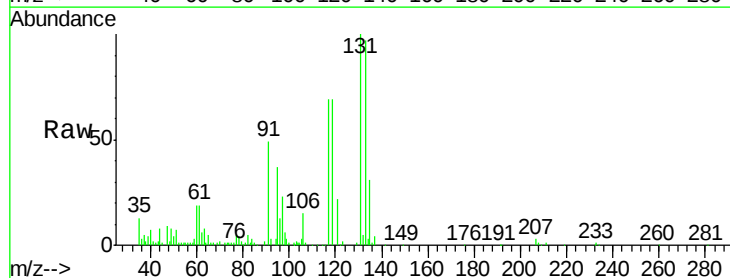
Tgt Ion:131 Resp: 100122

Ion Ratio Lower Upper

131 100

133 94.4 47.7 143.1

119 66.7 34.6 103.9



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

100000

80000

60000

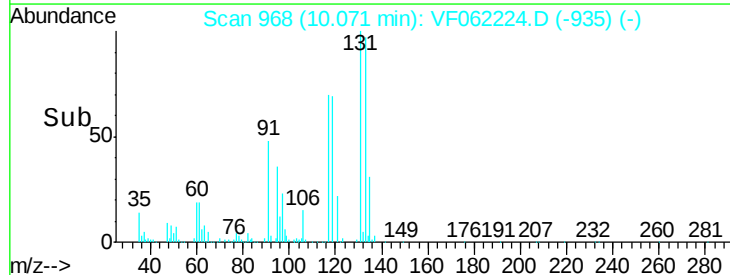
40000

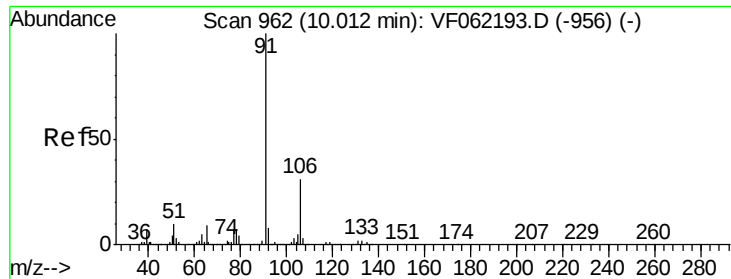
20000

0

10.00 10.10 10.20

Time-->





#67

Ethyl Benzene

Concen: 21.273 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 91 Resp: 393193

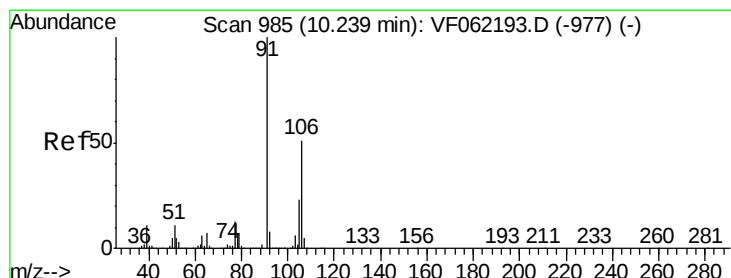
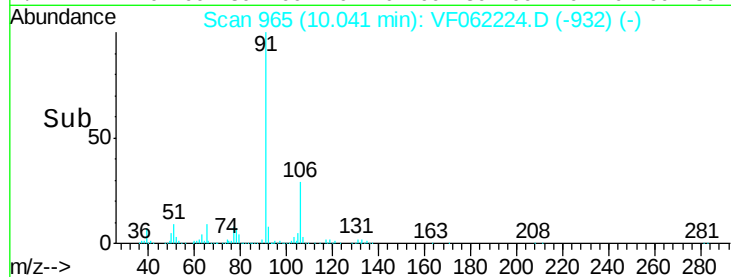
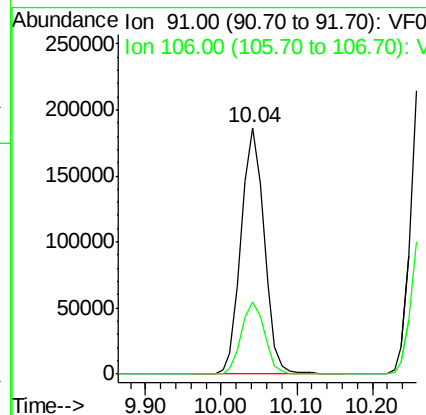
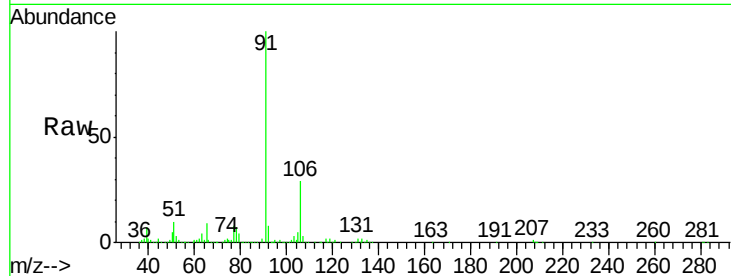
Ion Ratio Lower Upper

91 100

106 29.2 24.9 37.3

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:55:56 AM



#68

m/p-Xylenes

Concen: 43.002 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.03 min

Lab File: VF062224.D

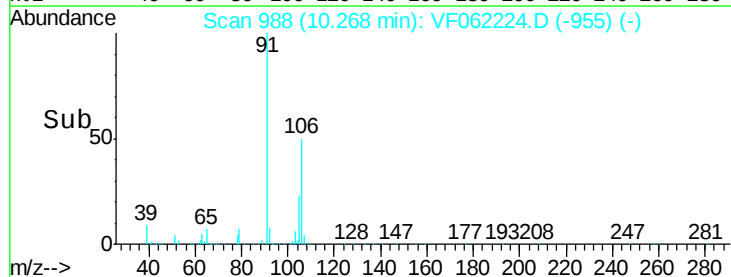
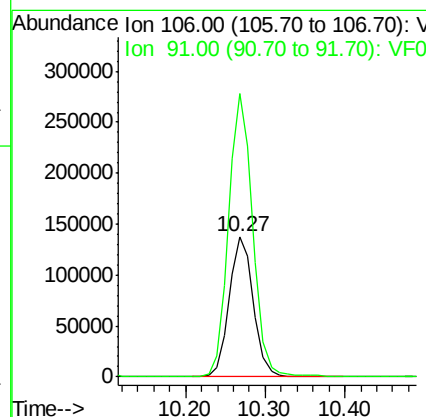
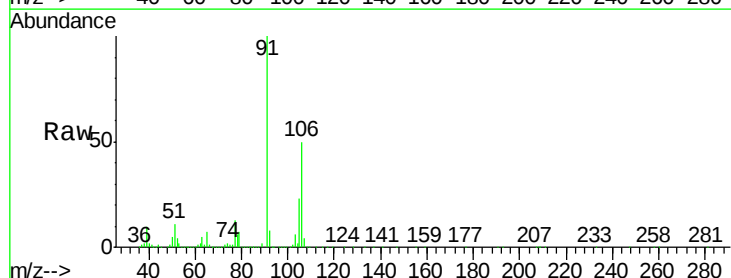
Acq: 19 Apr 2019 14:51

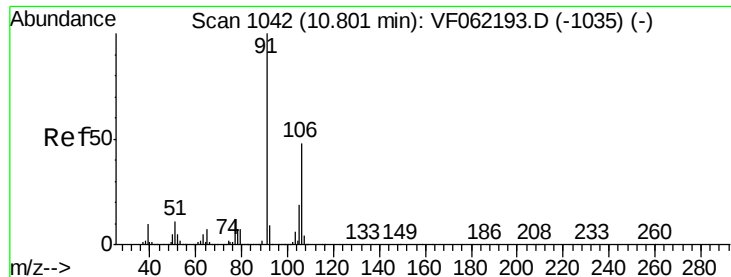
Tgt Ion: 106 Resp: 292592

Ion Ratio Lower Upper

106 100

91 201.9 159.1 238.7





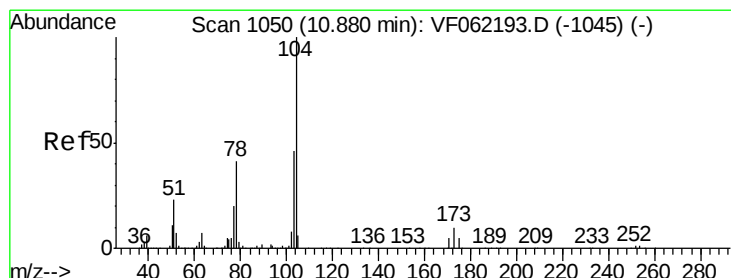
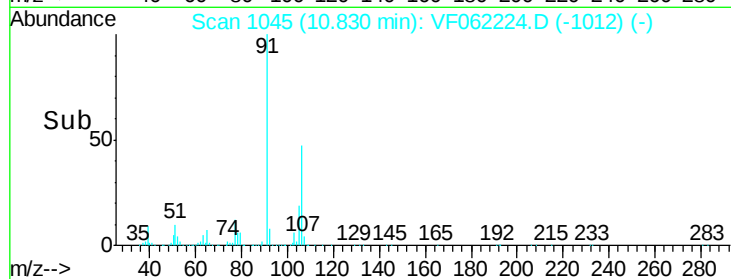
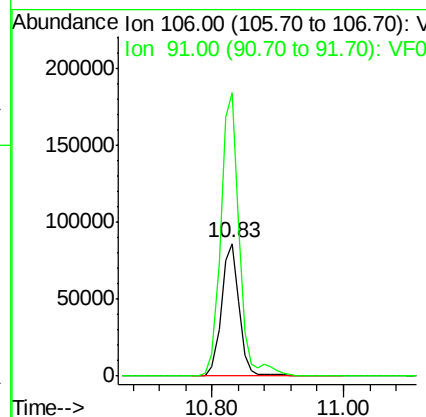
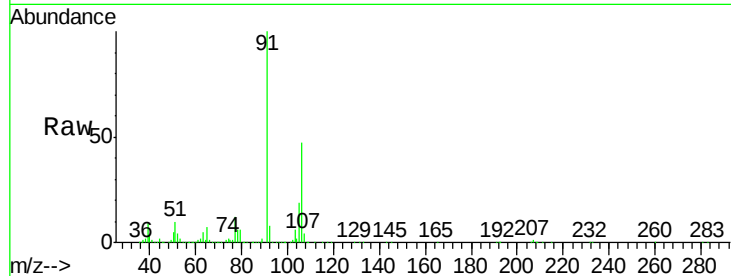
#69
o-Xylene
Concen: 21.259 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.03 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		160604		
91	221.1	107.5	322.4		

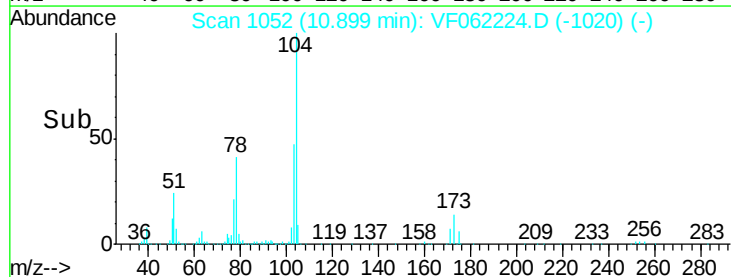
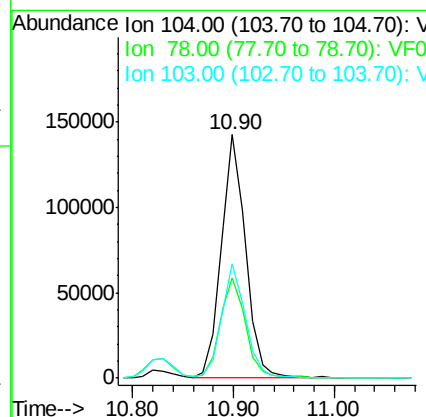
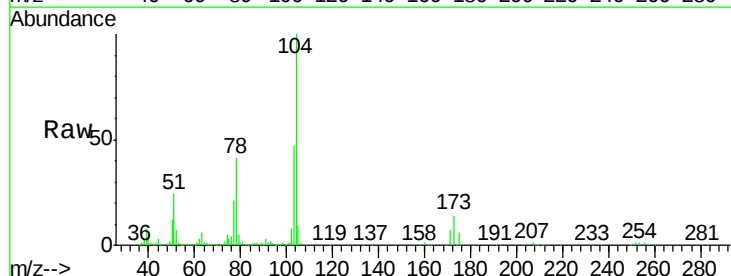
Manual Integrations
APPROVED

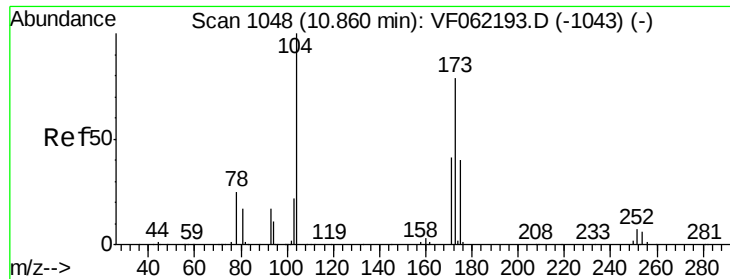
MMDadoda
4/23/2019 6:55:56 AM



#70
Styrene
Concen: 22.414 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		238953		
78	43.7	34.5	51.7		
103	46.7	37.2	55.8		





#71

Bromoform

Concen: 23.188 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.03 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

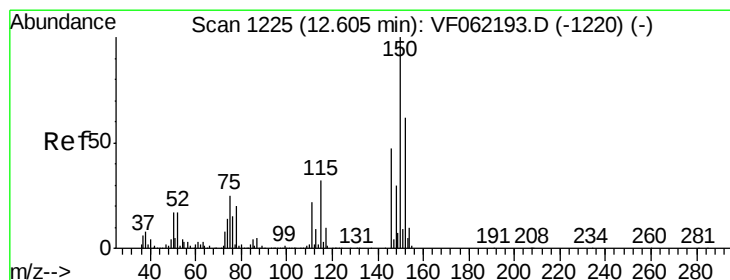
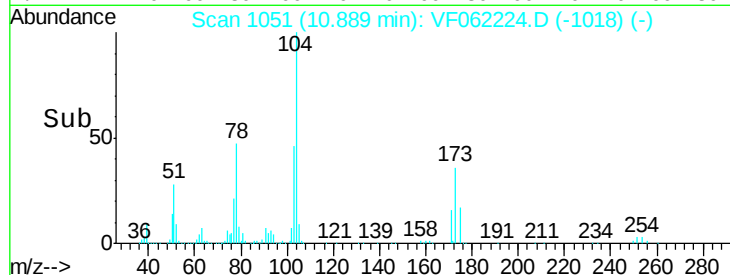
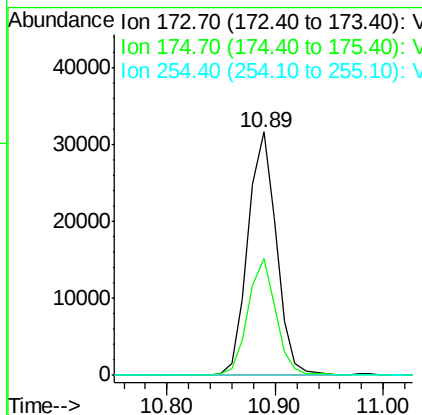
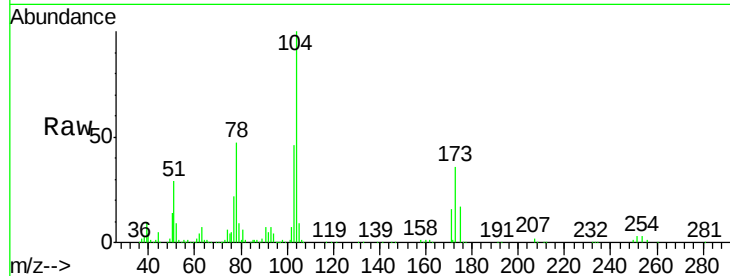
ClientSampleId :

VF0419SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	24.5	73.5
254	0.0	0.1	0.1#

Manual Integrations
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MMDadoda
4/23/2019 6:55:56 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

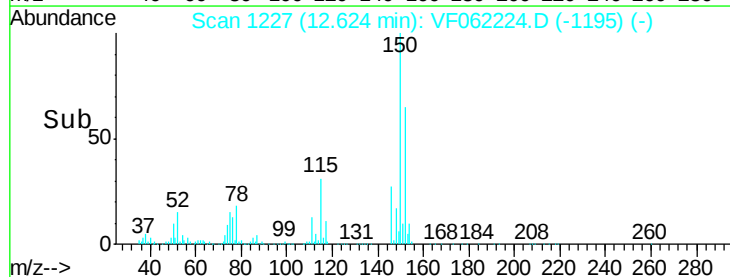
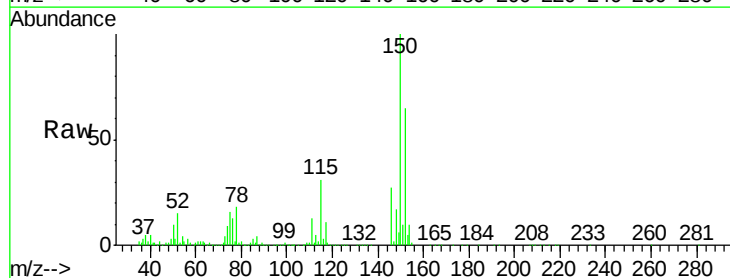
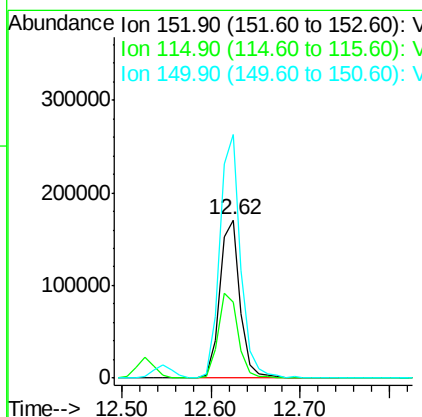
RT: 12.62 min Scan# 1227

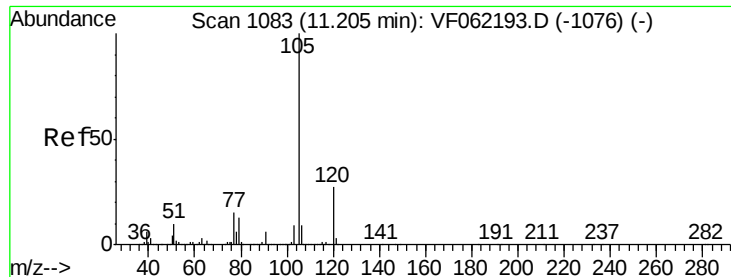
Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.5	27.8	83.3
150	157.7	0.0	341.8





#73

Isopropylbenzene

Concen: 19.860 ug/l

RT: 11.22 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 105 Resp: 466783

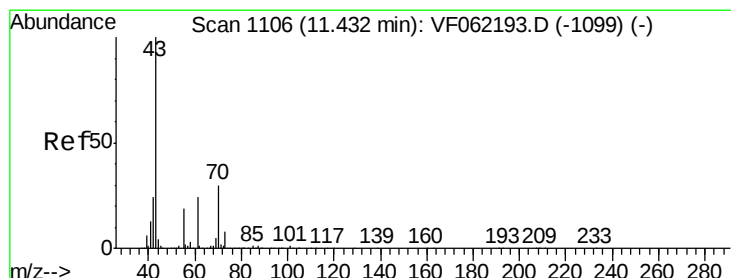
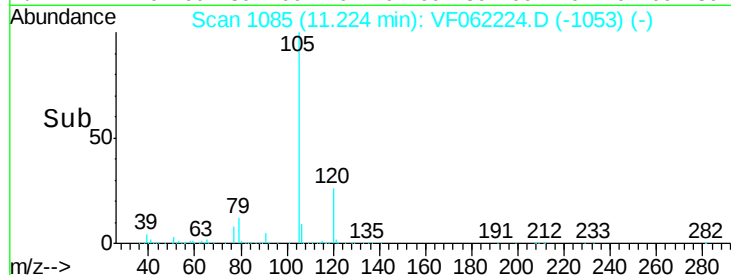
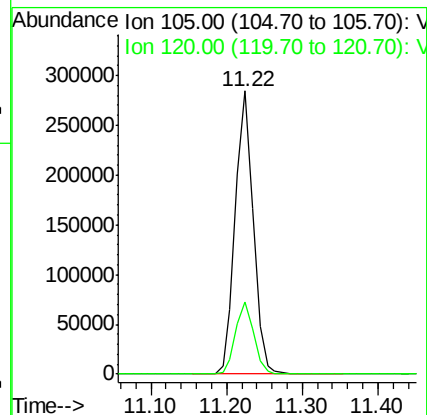
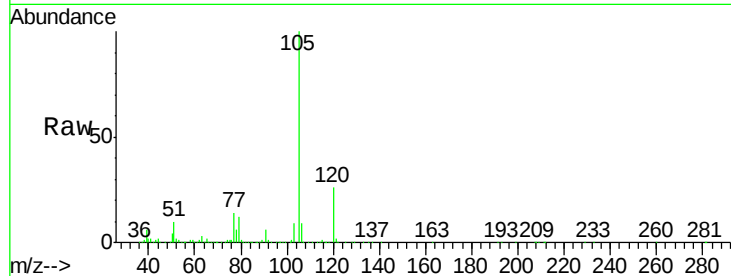
Ion Ratio Lower Upper

105 100

120 25.8 13.0 38.9

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:55:56 AM



#74

N-ethyl acetate

Concen: 18.465 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion: 43 Resp: 110701

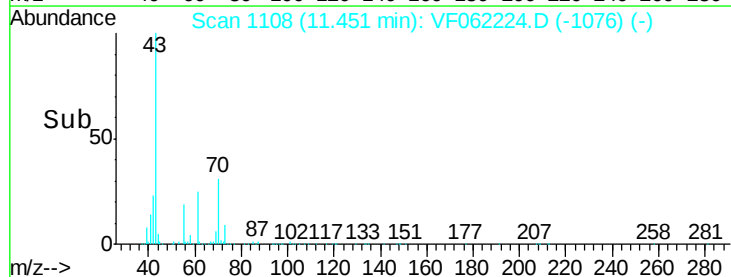
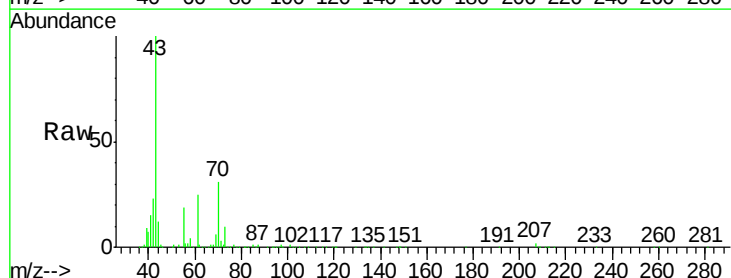
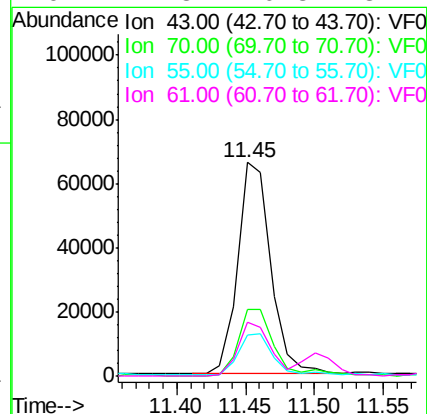
Ion Ratio Lower Upper

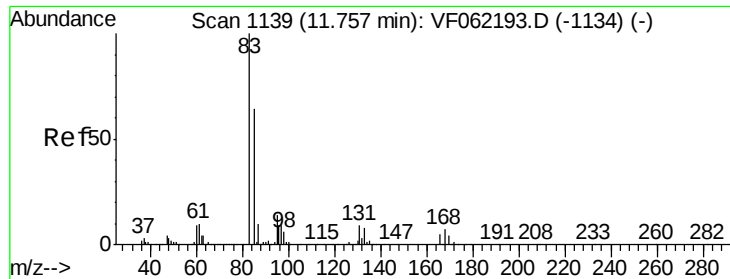
43 100

70 35.5 27.0 40.4

55 21.6 15.7 23.5

61 24.8 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.290 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

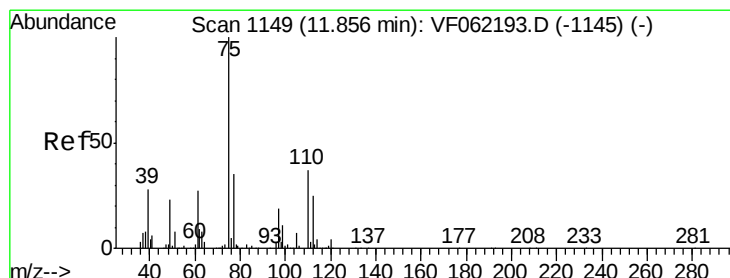
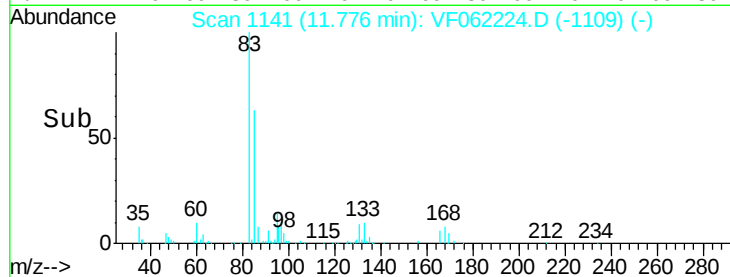
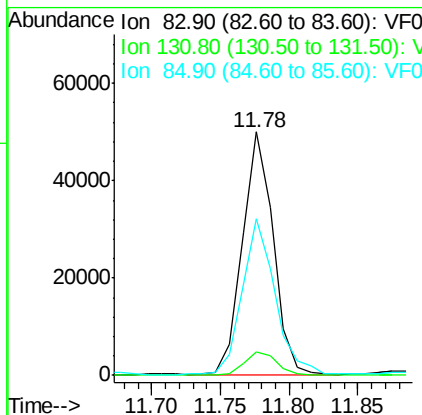
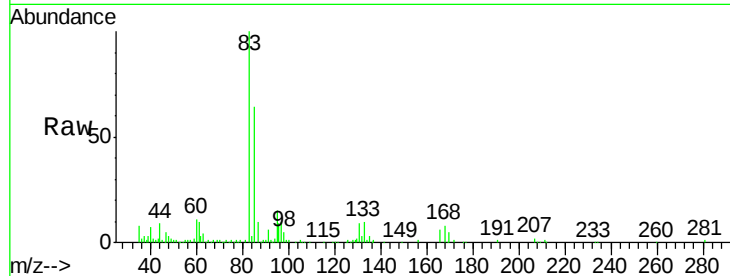
ClientSampleId :

VF0419SBS01

Tot Ion:	83	Resp:	77971
Ion Ratio	Lower	Upper	
83	100		
131	10.5	4.5	13.5
85	69.3	34.7	104.1

Manual Integrations
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MMDadoda
4/23/2019 6:55:56 AM



#76

1,2,3-Trichloropropane

Concen: 19.022 ug/l

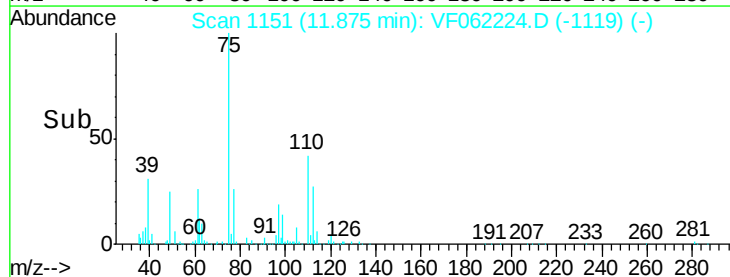
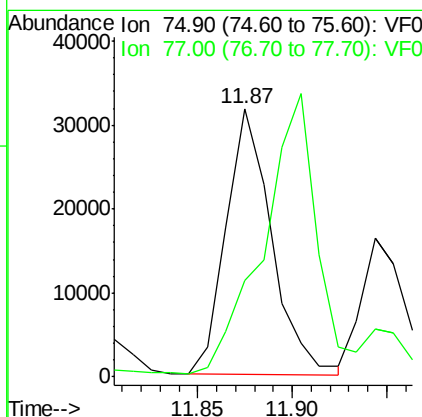
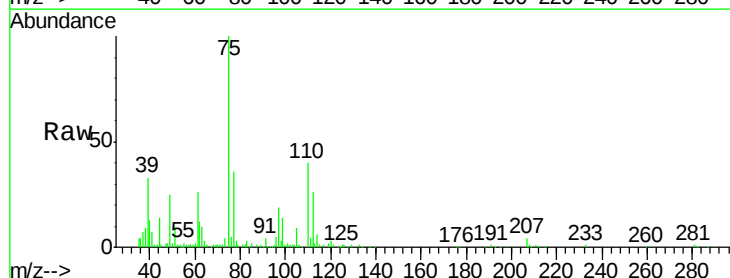
RT: 11.87 min Scan# 1151

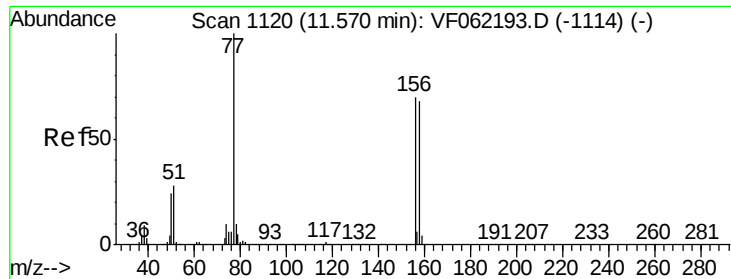
Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	75	Resp:	52900
Ion Ratio	Lower	Upper	
75	100		
77	0.0	7.4	22.2#





#77

Bromobenzene

Concen: 21.609 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

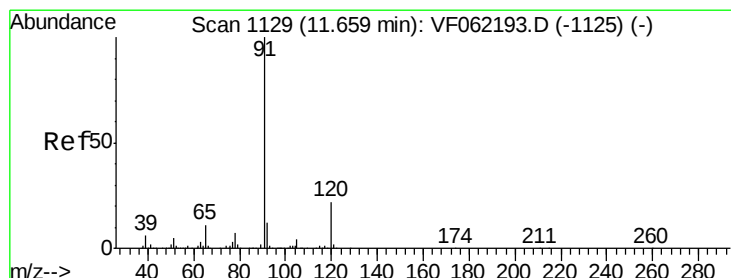
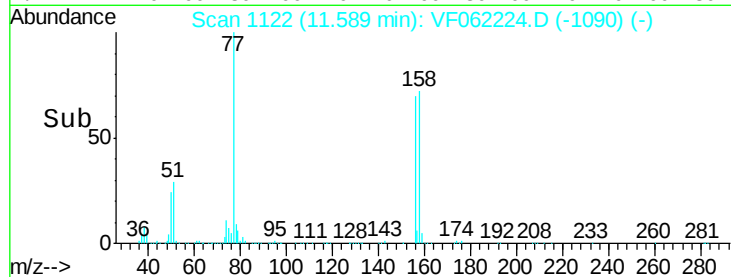
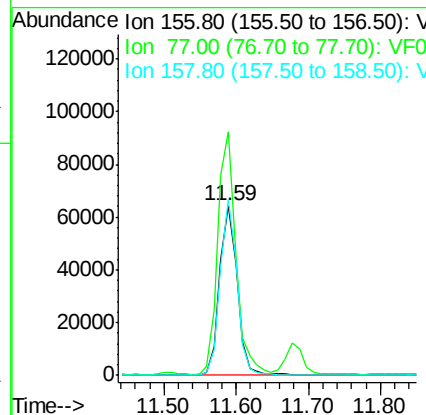
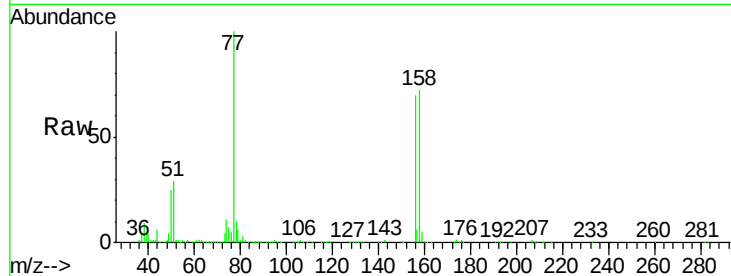
ClientSampleId :

VF0419SBSD01

Tot Ion:	156	Resp:	108799
Ion Ratio	Lower	Upper	
156	100		
77	145.7	80.9	242.7
158	98.1	49.8	149.4

Manual Integrations
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4/23/2019 6:55:56 AM



#78

n-propylbenzene

Concen: 19.600 ug/l

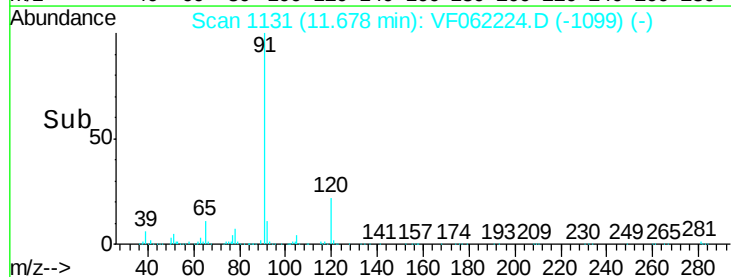
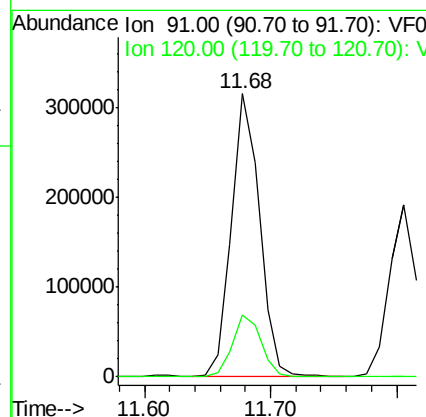
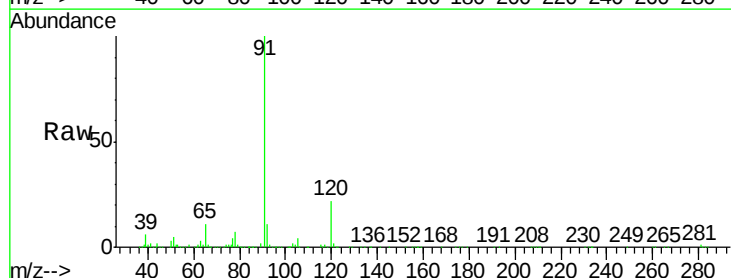
RT: 11.68 min Scan# 1131

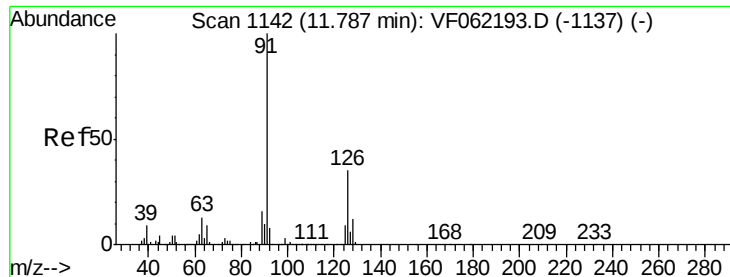
Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	91	Resp:	485969
Ion Ratio	Lower	Upper	
91	100		
120	22.5	11.2	33.6





#79

2-Chlorotoluene

Concen: 19.569 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 91 Resp: 294325

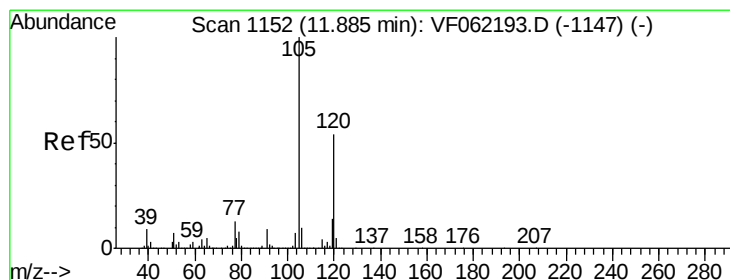
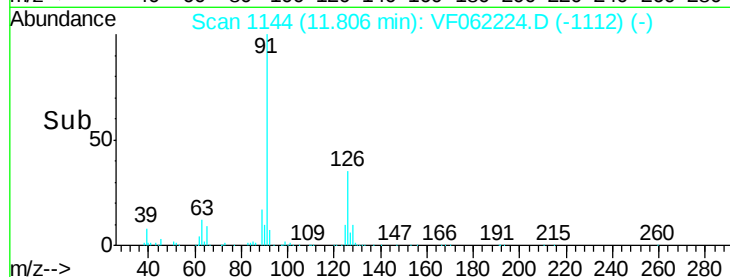
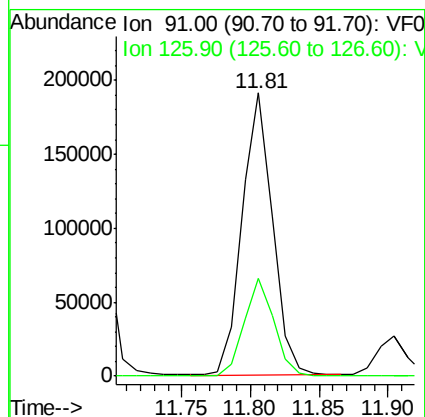
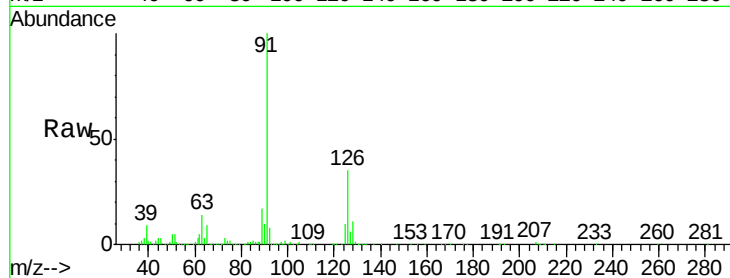
Ion Ratio Lower Upper

91 100

126 34.4 16.9 50.6

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 20.269 ug/l

RT: 11.90 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VF062224.D

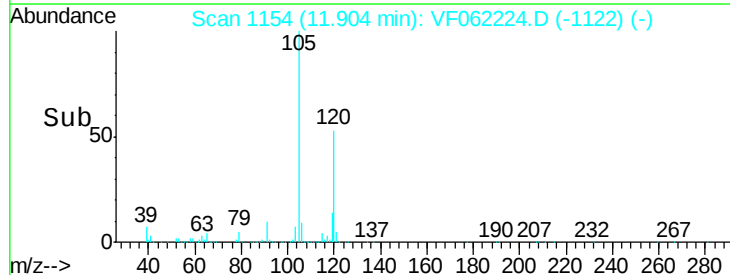
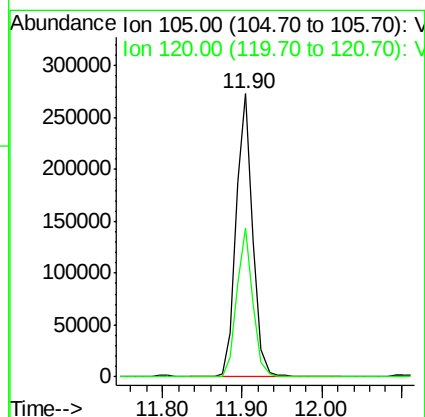
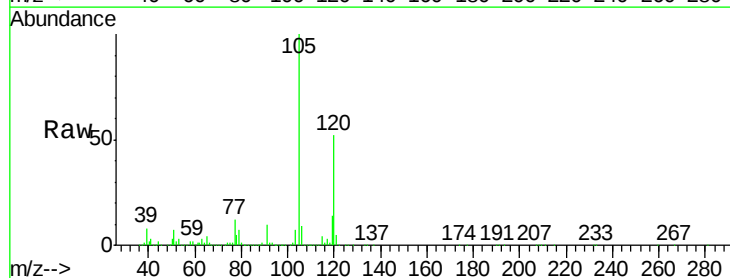
Acq: 19 Apr 2019 14:51

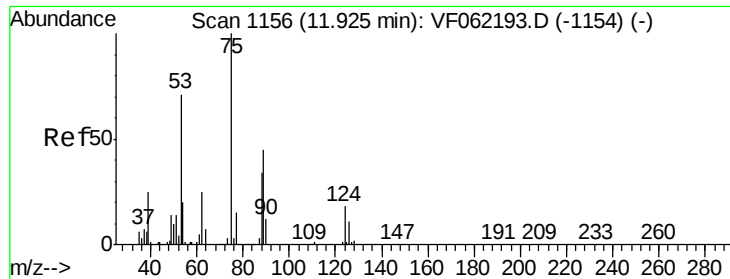
Tgt Ion: 105 Resp: 396777

Ion Ratio Lower Upper

105 100

120 51.6 26.2 78.5





#81

trans-1,4-Dichloro-2-butene

Concen: 17.609 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

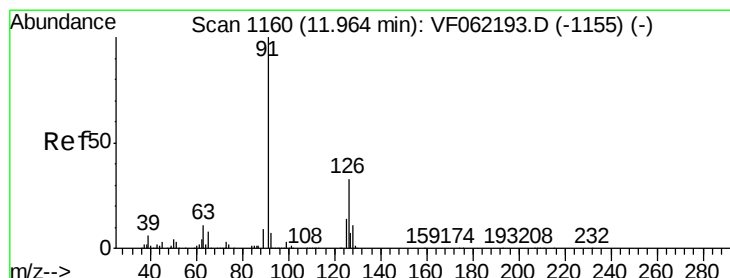
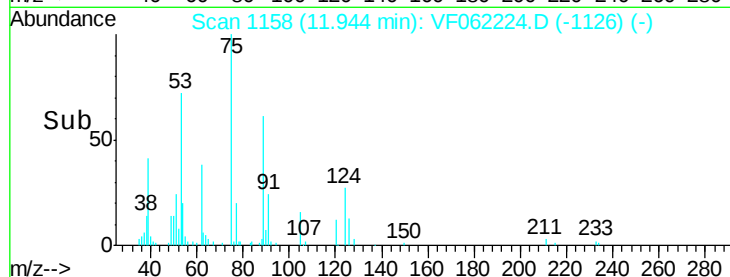
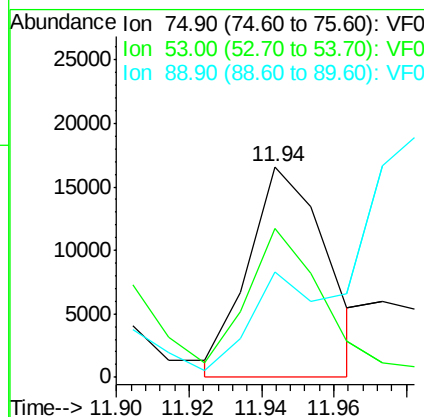
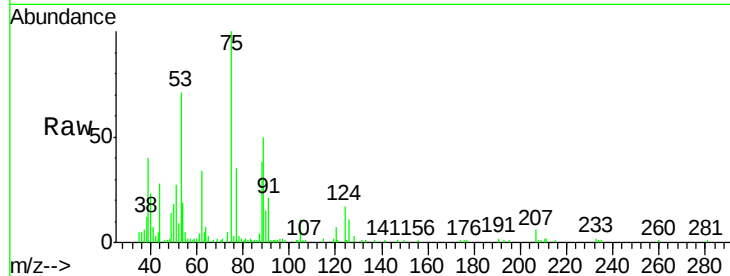
ClientSampleId :

VF0419SBS01

Tot Ion:	75	Resp:	24975
Ion	Ratio	Lower	Upper
75	100		
53	72.1	50.2	75.4
89	0.0	0.0	0.0

Manual Integrations
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4/23/2019 6:55:56 AM



#82

4-Chlorotoluene

Concen: 20.447 ug/l

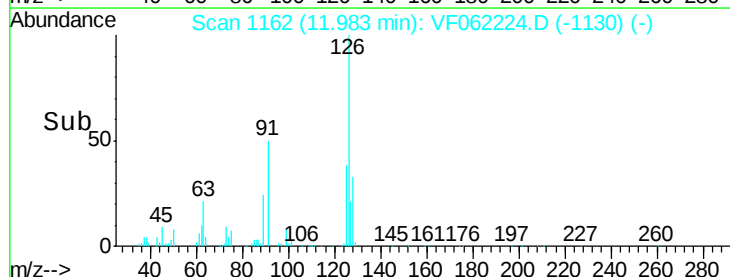
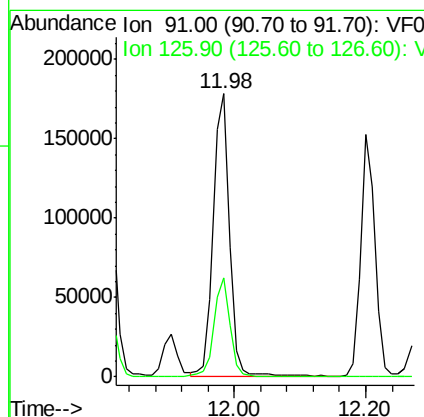
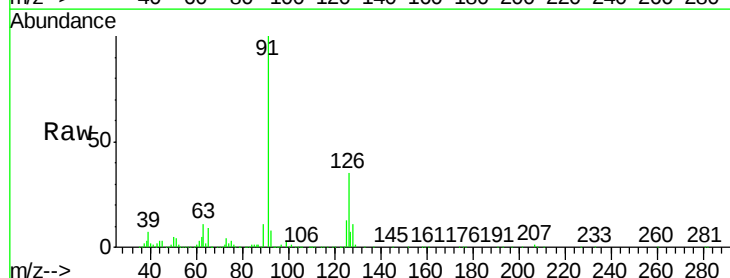
RT: 11.98 min Scan# 1162

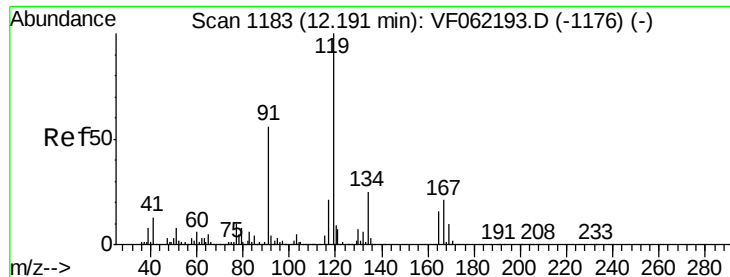
Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Tgt Ion:	91	Resp:	297205
Ion	Ratio	Lower	Upper
91	100		
126	34.7	16.9	50.6





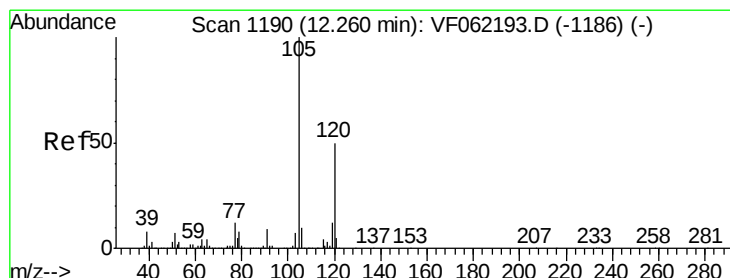
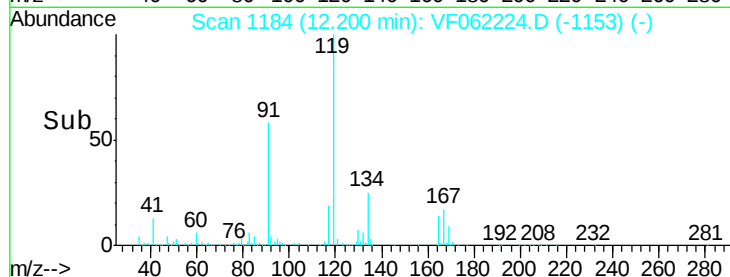
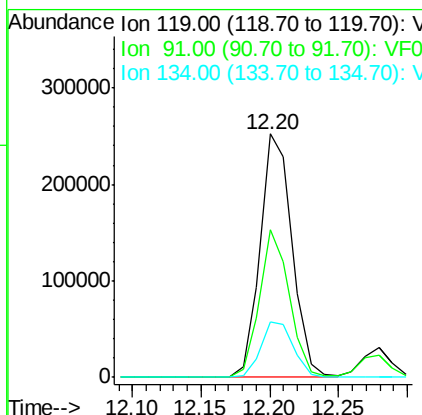
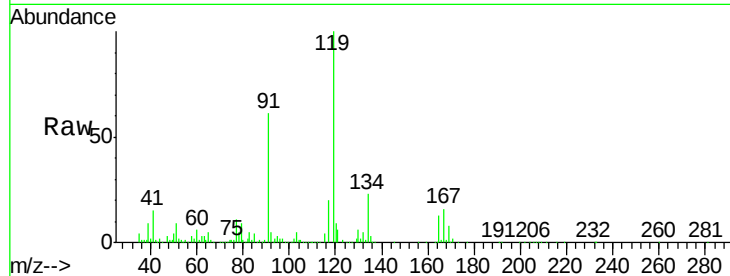
#83
tert-Butylbenzene
Concen: 20.154 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	56.8	29.4	88.2
134	23.4	11.8	35.3

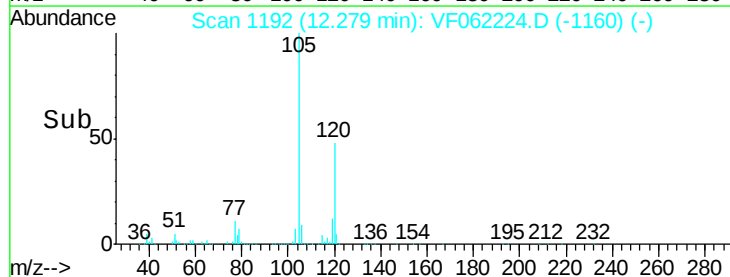
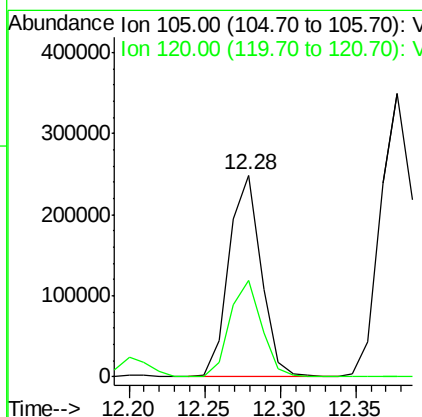
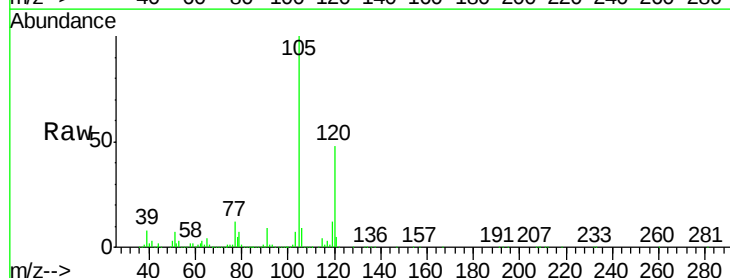
Manual Integrations
APPROVED

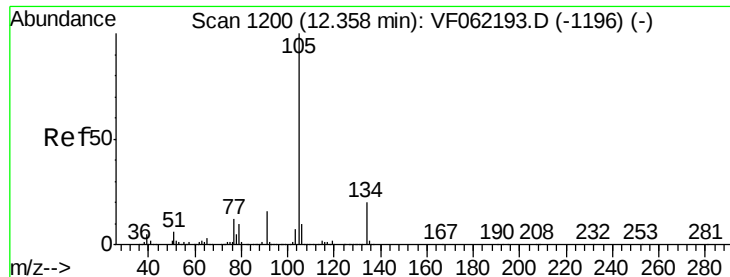
MMDadoda
4/23/2019 6:55:56 AM



#84
1,2,4-Trimethylbenzene
Concen: 19.448 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.9	24.0	72.0





#85

sec-Butylbenzene

Concen: 20.203 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion:105 Resp: 530977

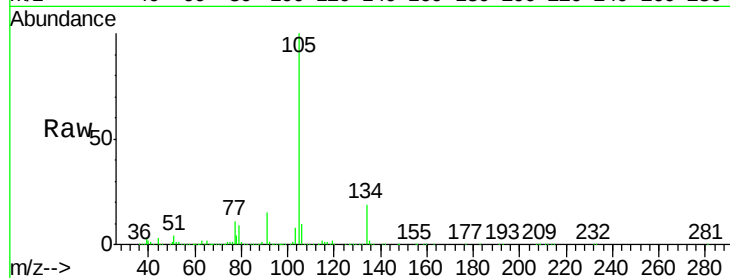
Ion Ratio Lower Upper

105 100

134 19.0 9.7 29.1

Manual Integrations
APPROVED

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4/23/2019 6:55:56 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.38

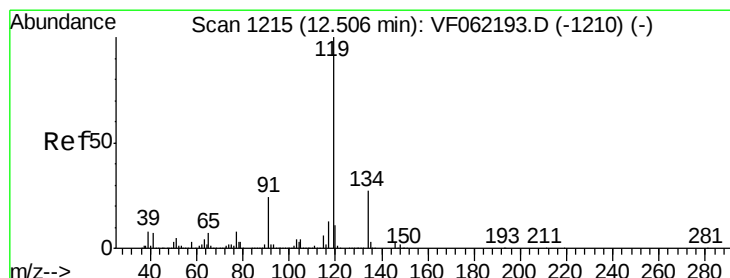
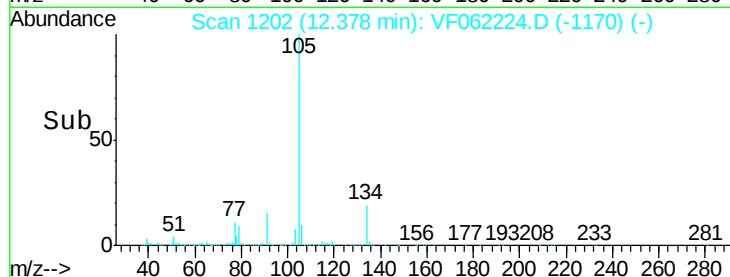
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.535 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF062224.D

Acq: 19 Apr 2019 14:51

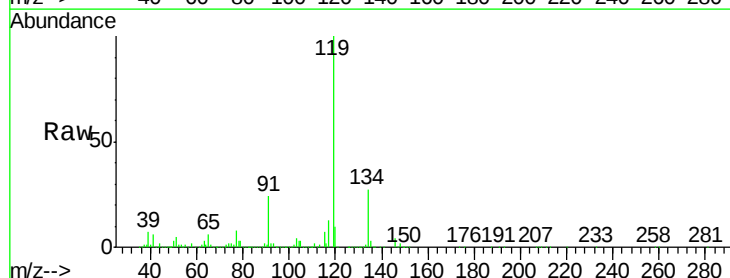
Tgt Ion:119 Resp: 457819

Ion Ratio Lower Upper

119 100

134 26.7 13.2 39.5

91 23.4 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.53

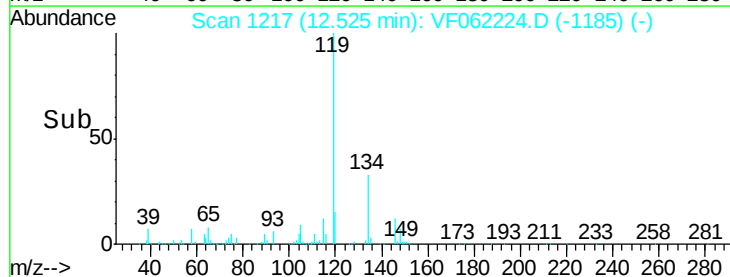
300000

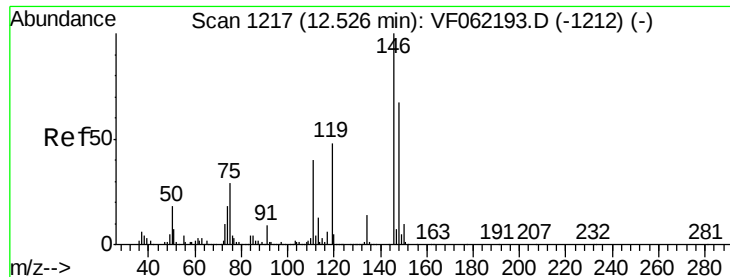
200000

100000

0

Time-->





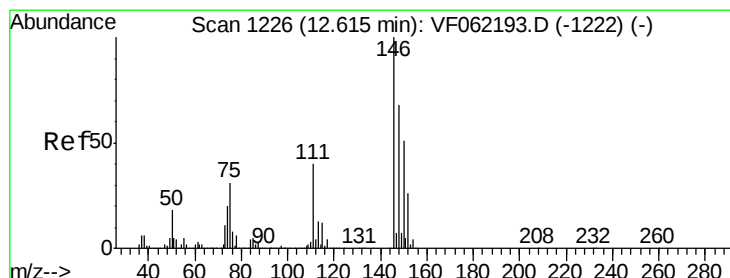
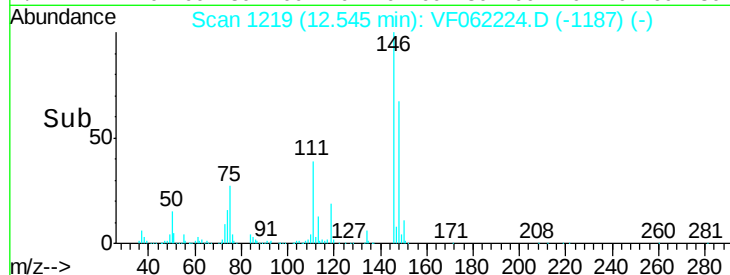
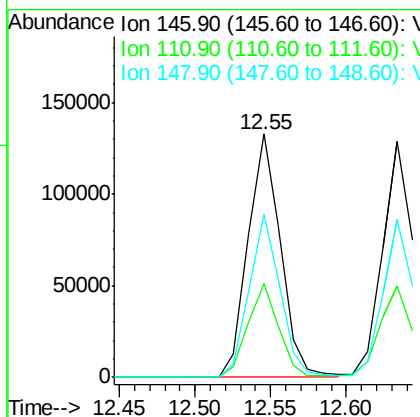
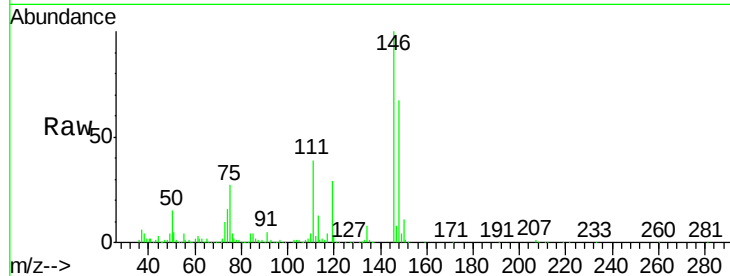
#87
 1,3-Dichlorobenzene
 Concen: 21.375 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.02 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	199717		
111	37.1	19.7	59.0	
148	64.0	32.9	98.6	

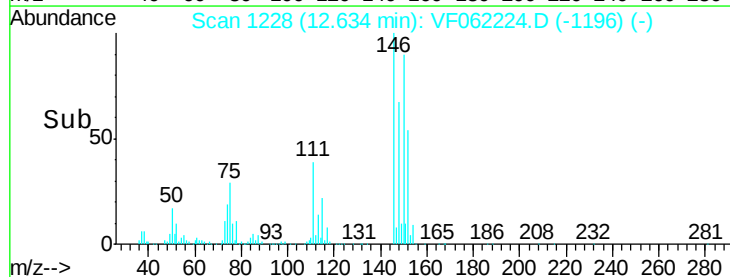
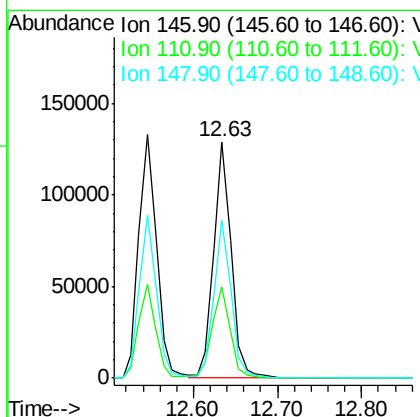
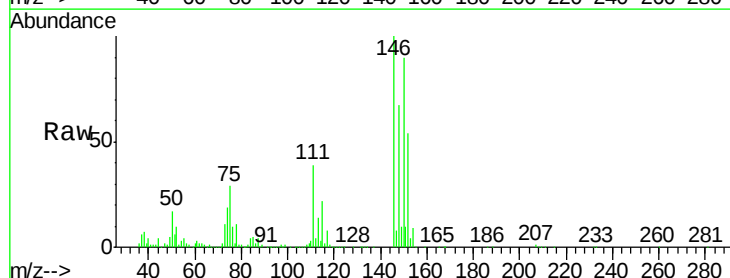
Manual Integrations
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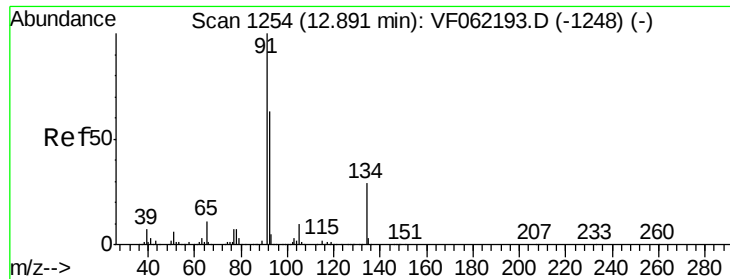
MMDadoda
 4/23/2019 6:55:56 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.857 ug/l
 RT: 12.63 min Scan# 1228
 Delta R.T. 0.02 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	187971		
111	39.4	20.0	60.0	
148	65.5	33.6	100.8	





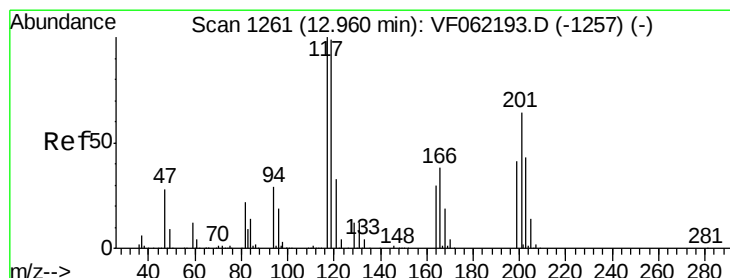
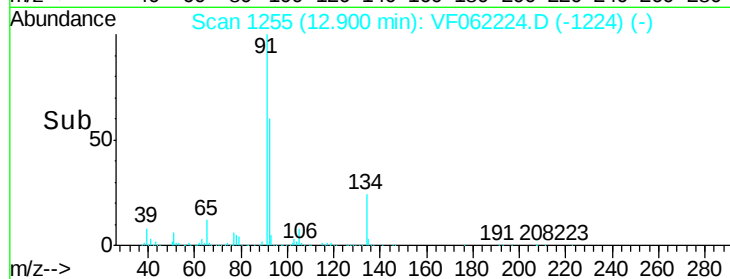
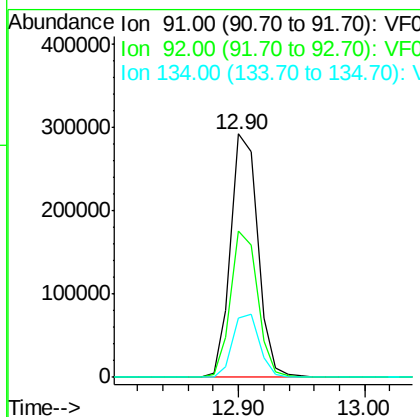
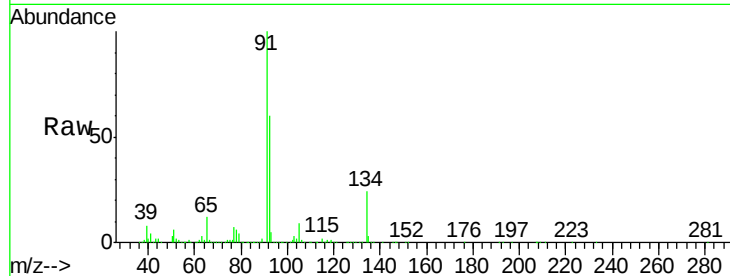
#89
n-Butylbenzene
Concen: 20.767 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	436399		
92	59.3		31.2	93.6
134	26.1		13.1	39.1

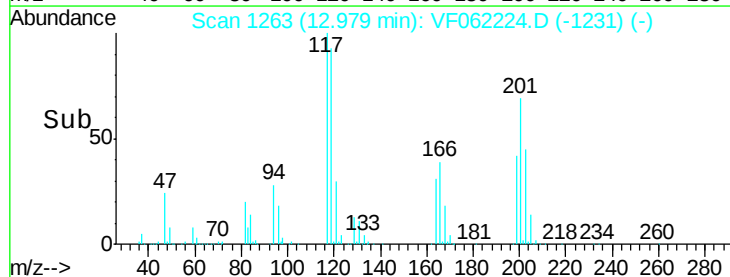
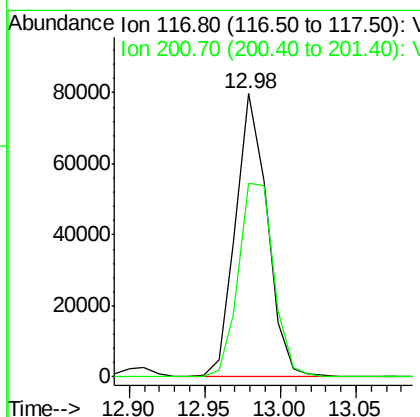
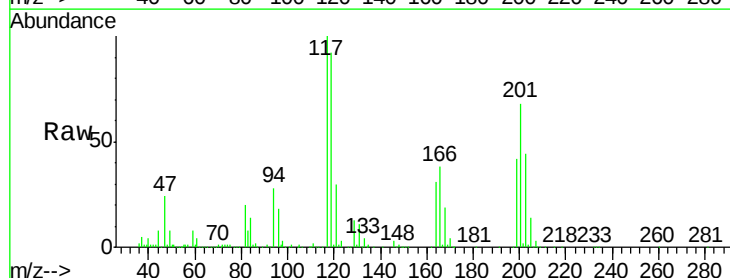
Manual Integrations
APPROVED

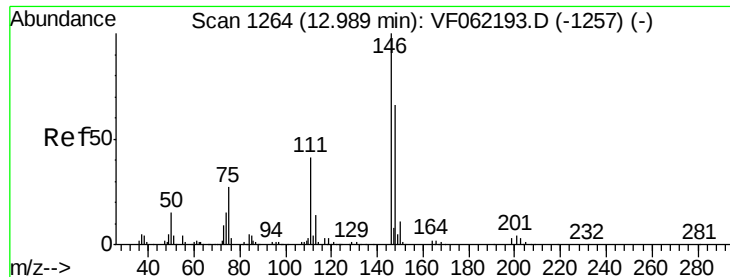
MMDadoda
4/23/2019 6:55:56 AM



#90
Hexachloroethane
Concen: 20.221 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	115765		
201	77.0		37.7	113.1





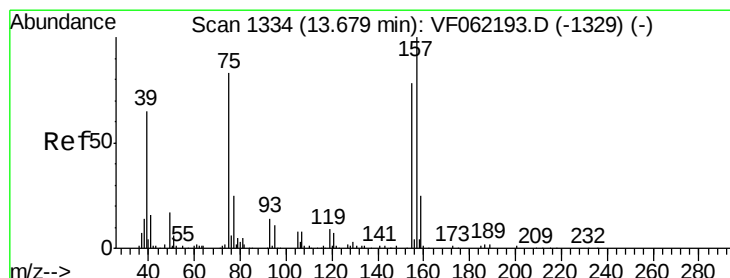
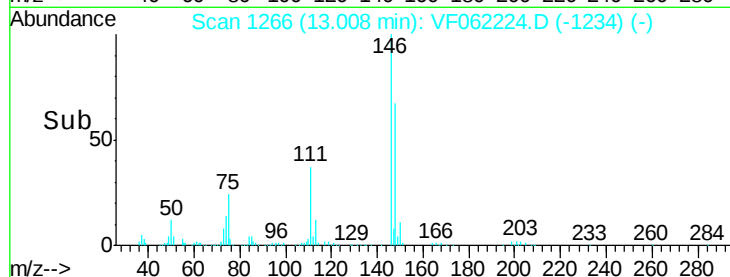
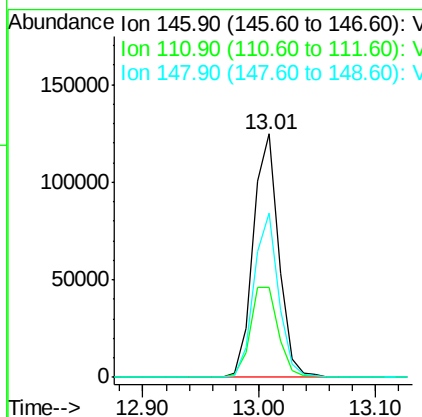
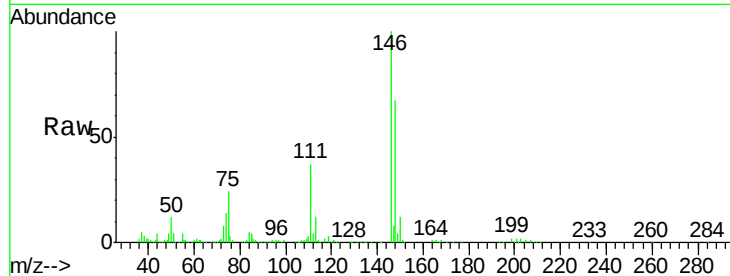
#91
 1,2-Dichlorobenzene
 Concen: 20.940 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. 0.02 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	188919		
111	40.5	20.8	62.5	
148	65.7	33.0	99.0	

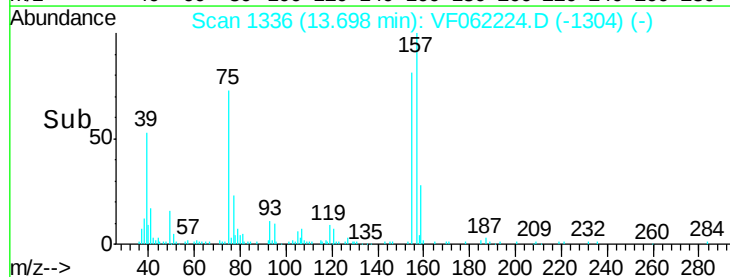
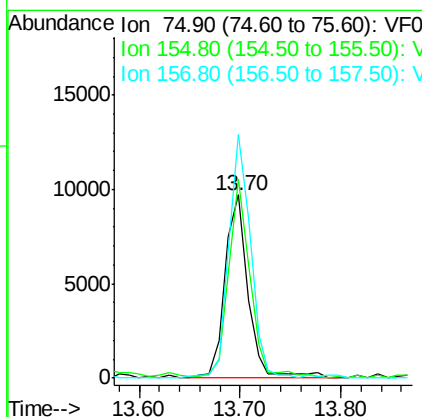
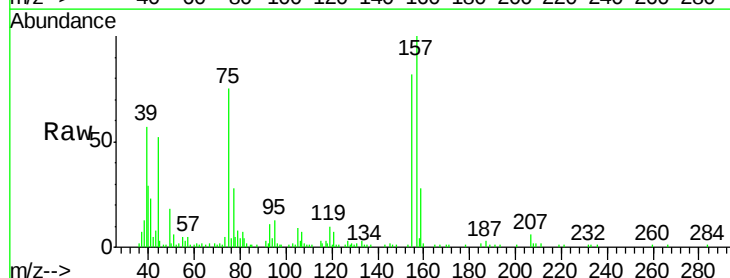
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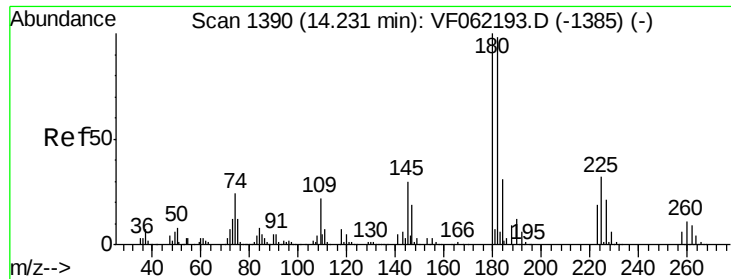
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.625 ug/l
 RT: 13.70 min Scan# 1336
 Delta R.T. 0.02 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	15585		
155	100.2	47.6	142.8	
157	123.9	61.3	183.9	





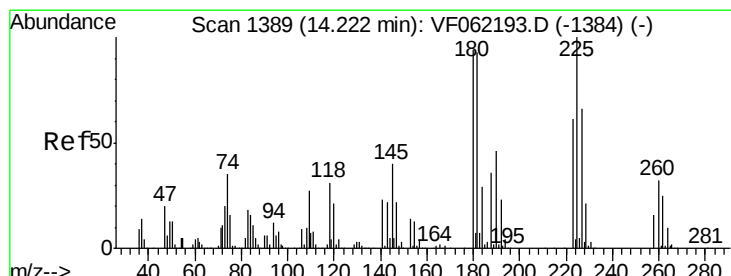
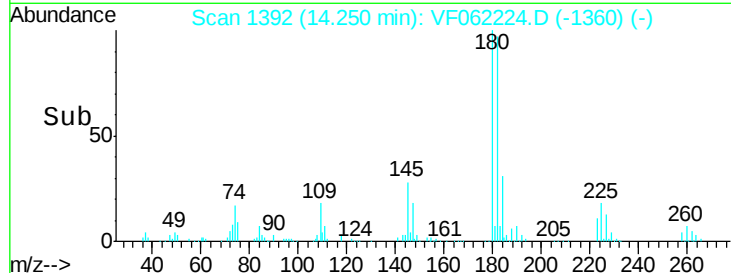
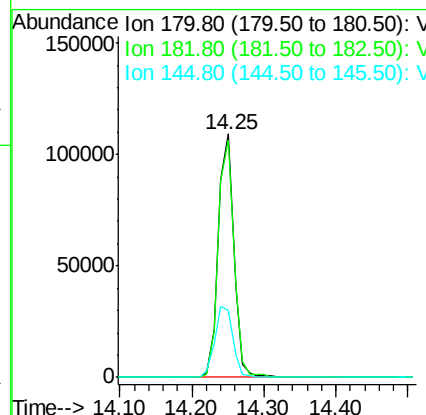
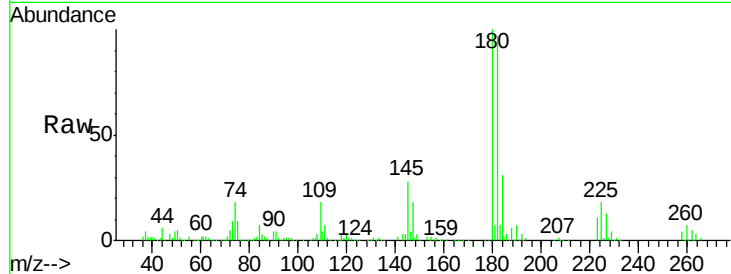
#93
 1,2,4-Trichlorobenzene
 Concen: 21.516 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.02 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	162412		
182	98.4	49.3	147.9	
145	34.4	18.1	54.4	

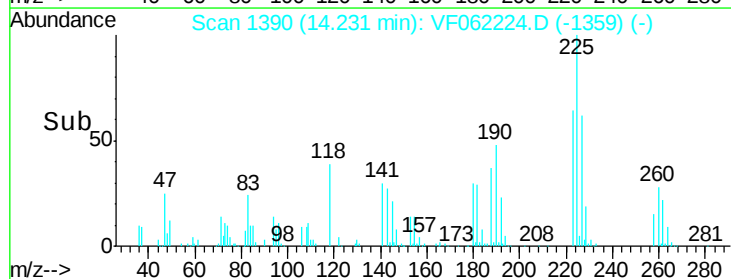
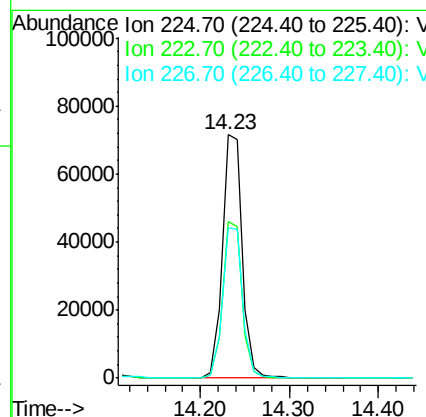
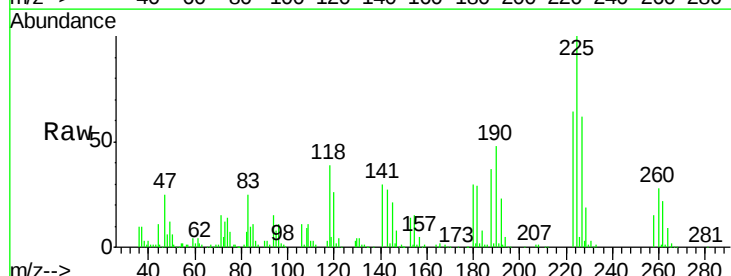
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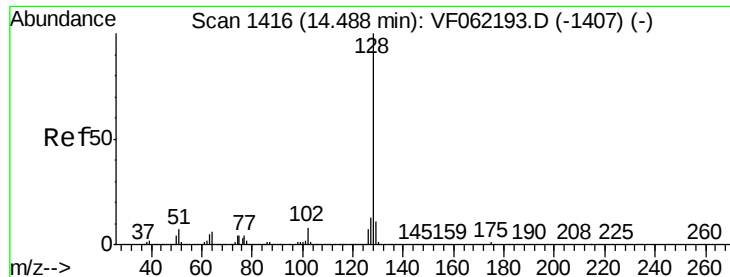
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#94
 Hexachlorobutadiene
 Concen: 21.566 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062224.D
 Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	111622		
223	62.9	31.0	93.0	
227	62.8	32.4	97.0	





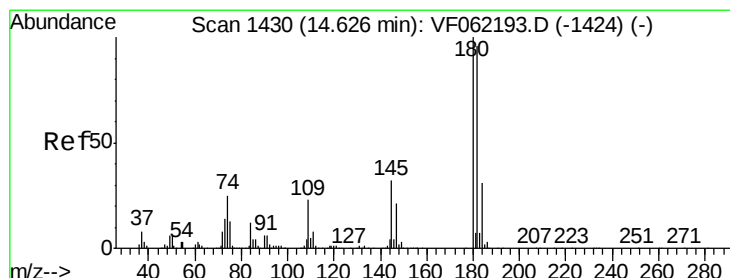
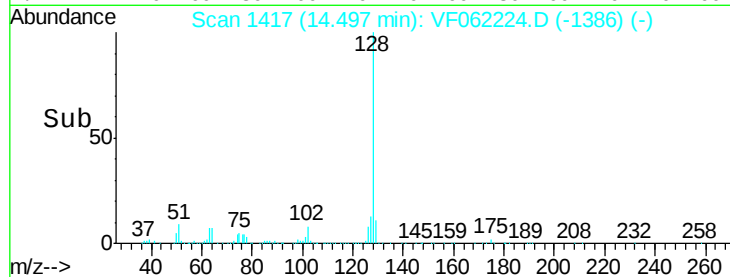
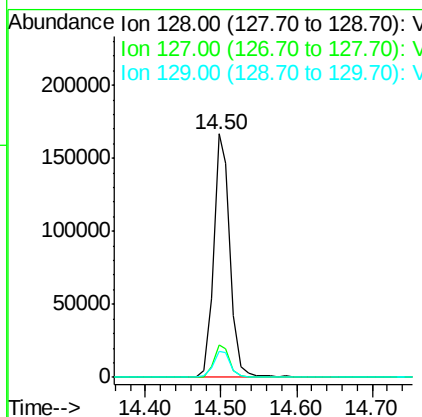
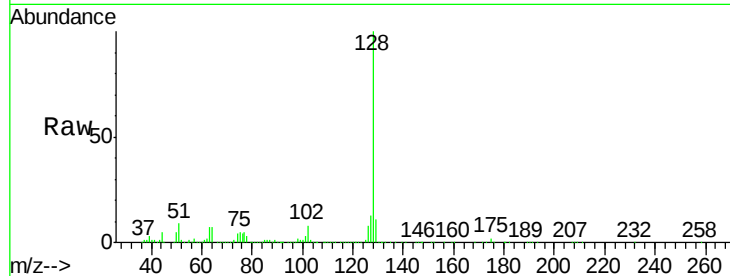
#95
Naphthalene
Concen: 19.428 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	256423		
127	13.2		10.4	15.6
129	11.4		9.2	13.8

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 21.054 ug/l
RT: 14.64 min Scan# 1432
Delta R.T. 0.02 min
Lab File: VF062224.D
Acq: 19 Apr 2019 14:51

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	152575		
182	97.4		48.4	145.3
145	30.7		15.6	46.8

