

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061863.D
 Acq On : 8 Mar 2019 15:26
 Operator : VA/AP
 Sample : VF0308SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:12:10 AM

Quant Time: Mar 09 02:10:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	317683	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	481121	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	422170	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	237025	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.81	65	125602	54.29	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	108.58%	
35) Dibromofluoromethane	4.08	113	180238	53.68	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	107.36%	
50) Toluene-d8	7.53	98	526064	52.71	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	105.42%	
62) 4-Bromofluorobenzene	11.39	95	201694	51.59	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	103.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	89658	22.988	ug/l	91
3) Chloromethane	1.10	50	87560	23.165	ug/l	99
4) Vinyl Chloride	1.14	62	80597	22.462	ug/l	92
5) Bromomethane	1.31	94	53313	21.801	ug/l	97
6) Chloroethane	1.38	64	38868	22.788	ug/l	94
7) Trichlorofluoromethane	1.47	101	100827	23.007	ug/l	97
8) Diethyl Ether	1.62	74	22606	22.684	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	69529	23.363	ug/l	93
10) Methyl Iodide	1.90	142	123300m	21.772	ug/l	
11) Tert butyl alcohol	2.55	59	12341	93.982	ug/l	98
12) 1,1-Dichloroethene	1.78	96	60267	22.182	ug/l	98
13) Acrolein	1.99	56	18086	108.698	ug/l	98
14) Allyl chloride	2.08	41	71788	23.984	ug/l	85
15) Acrylonitrile	2.92	53	42790	102.335	ug/l	96
16) Acetone	2.22	43	64074	132.217	ug/l	96
17) Carbon Disulfide	1.82	76	188769m	22.320	ug/l	
18) Methyl Acetate	2.34	43	22201	22.476	ug/l	93
19) Methyl tert-butyl Ether	2.42	73	98306	21.389	ug/l	95
20) Methylene Chloride	2.17	84	63169m	20.343	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	62403	24.404	ug/l	94
22) Diisopropyl ether	2.78	45	175901	22.592	ug/l	96
23) Vinyl Acetate	3.17	43	360383	103.609	ug/l	98
24) 1,1-Dichloroethane	2.85	63	103506	22.241	ug/l	99
25) 2-Butanone	4.31	43	102736	104.221	ug/l	100
26) 2,2-Dichloropropane	3.57	77	46077	22.179	ug/l	95
27) cis-1,2-Dichloroethene	3.45	96	76299	21.537	ug/l	97
28) Bromochloromethane	3.69	49	42201	20.803	ug/l #	91
29) Tetrahydrofuran	4.05	42	40229	94.629	ug/l	99
30) Chloroform	3.84	83	115124	21.658	ug/l	99
31) Cyclohexane	3.67	56	101480m	20.819	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	71625	21.860	ug/l	88
36) 1,1-Dichloropropene	4.26	75	91785	20.196	ug/l	95
37) Ethyl Acetate	4.08	43	34341	18.002	ug/l	86
38) Carbon Tetrachloride	3.97	117	71681	22.281	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	110289	20.546	ug/l	96
40) Benzene	4.61	78	248847	20.948	ug/l	99
41) Methacrylonitrile	4.73	41	19966	19.104	ug/l #	85
42) 1,2-Dichloroethane	4.91	62	59934	20.245	ug/l	95
43) Isopropyl Acetate	6.93	43	46722	19.870	ug/l #	97
44) Trichloroethene	5.47	130	77181	20.906	ug/l	96
45) 1,2-Dichloropropane	6.20	63	56973	20.169	ug/l	99
46) Dibromomethane	6.06	93	32648	18.364	ug/l	96
47) Bromodichloromethane	6.36	83	81644	20.787	ug/l	97
48) Methyl methacrylate	6.69	41	26410	17.747	ug/l	98
49) 1,4-Dioxane	6.69	88	4339	318.954	ug/l #	66
51) 4-Methyl-2-Pentanone	8.24	43	156702	96.424	ug/l	99
52) Toluene	7.60	92	141864	20.187	ug/l	96
53) t-1,3-Dichloropropene	8.26	75	64386	19.859	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	92882	20.770	ug/l	98
55) 1,1,2-Trichloroethane	8.46	97	40234	19.870	ug/l	94
56) Ethyl methacrylate	8.60	69	47139	20.657	ug/l	93
57) 1,3-Dichloropropane	8.83	76	67998	20.535	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.27	63	41003	113.587	ug/l #	88
59) 2-Hexanone	9.47	43	123200	105.084	ug/l	99
60) Dibromochloromethane	8.69	129	57418	19.896	ug/l	97
61) 1,2-Dibromoethane	8.97	107	44239	19.868	ug/l	97
64) Tetrachloroethene	8.13	164	64239	19.803	ug/l	94
65) Chlorobenzene	9.77	112	154732	19.077	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.90	131	63236	20.123	ug/l	100
67) Ethyl Benzene	9.87	91	289841	21.560	ug/l	98
68) m/p-Xylenes	10.11	106	219943	42.708	ug/l	100
69) o-Xylene	10.69	106	113325	20.435	ug/l	96
70) Styrene	10.77	104	154759	19.830	ug/l	98
71) Bromoform	10.75	173	32469	19.550	ug/l	95
73) Isopropylbenzene	11.11	105	325164	19.927	ug/l	100
74) N-amyl acetate	11.35	43	69963	18.624	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.68	83	49968	18.424	ug/l	91
76) 1,2,3-Trichloropropane	11.78	75	34301	18.531	ug/l	90
77) Bromobenzene	11.48	156	75929	19.334	ug/l	87
78) n-propylbenzene	11.58	91	366637	19.896	ug/l	99
79) 2-Chlorotoluene	11.70	91	206525	19.603	ug/l	97
80) 1,3,5-Trimethylbenzene	11.81	105	262761	20.056	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	15491m	18.302	ug/l	
82) 4-Chlorotoluene	11.88	91	223814	20.770	ug/l	94
83) tert-Butylbenzene	12.11	119	281614	20.243	ug/l	91
84) 1,2,4-Trimethylbenzene	12.19	105	264385	20.586	ug/l	95
85) sec-Butylbenzene	12.29	105	379564	20.966	ug/l	97
86) p-Isopropyltoluene	12.45	119	320664	20.838	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	155794	20.892	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	148377	20.627	ug/l	97
89) n-Butylbenzene	12.83	91	300735	20.449	ug/l	95
90) Hexachloroethane	12.90	117	72260	19.509	ug/l	90
91) 1,2-Dichlorobenzene	12.93	146	142482	20.167	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7968	19.412	ug/l	88

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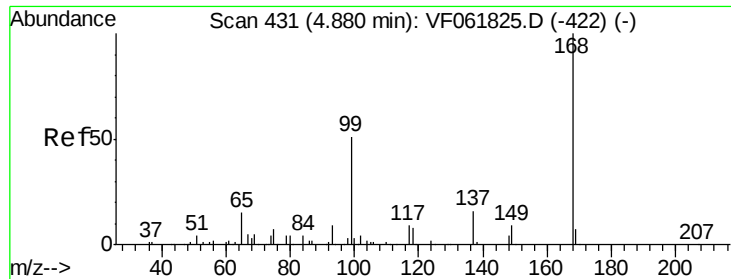
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	102563	20.707	ug/l	94
94) Hexachlorobutadiene	14.17	225	64795	18.897	ug/l	97
95) Naphthalene	14.44	128	164786	18.679	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	89677	19.609	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion:168 Resp: 317683

Ion Ratio Lower Upper

168 100

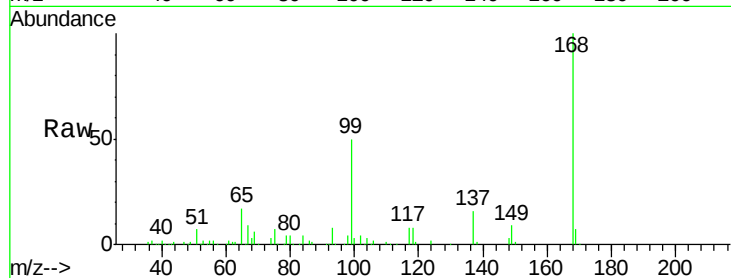
99 50.1 40.8 61.2

Manual Integrations

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3/11/2019 10:12:10 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.84

120000

100000

80000

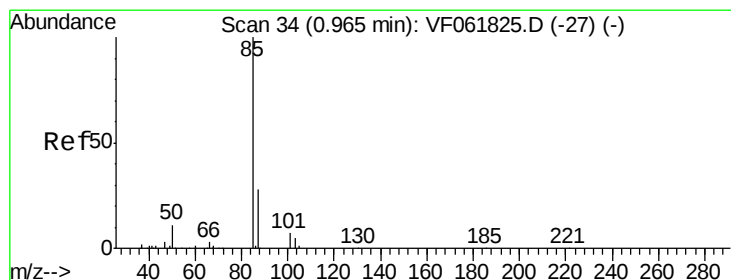
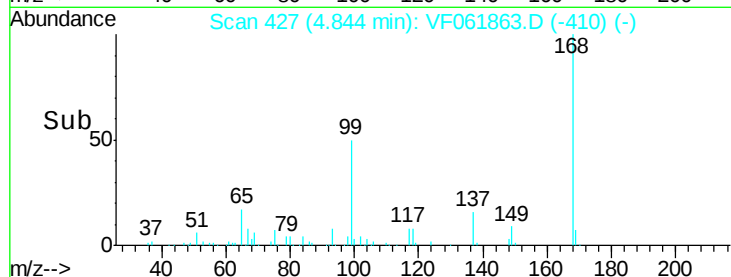
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.988 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061863.D

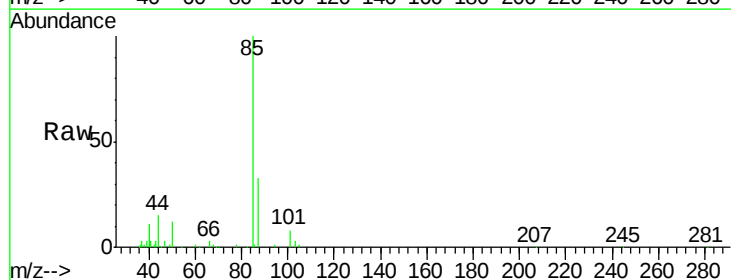
Acq: 8 Mar 2019 15:26

Tgt Ion: 85 Resp: 89658

Ion Ratio Lower Upper

85 100

87 32.9 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

25000

20000

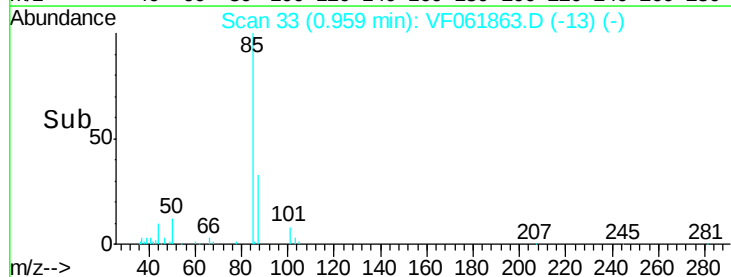
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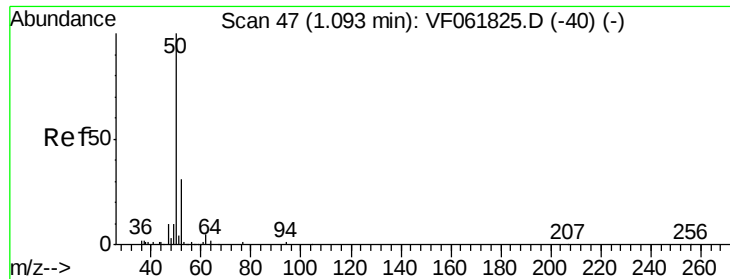
10000

5000

0

Time-->





#3

Chloromethane

Concen: 23.165 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 50 Resp: 87560

Ion Ratio Lower Upper

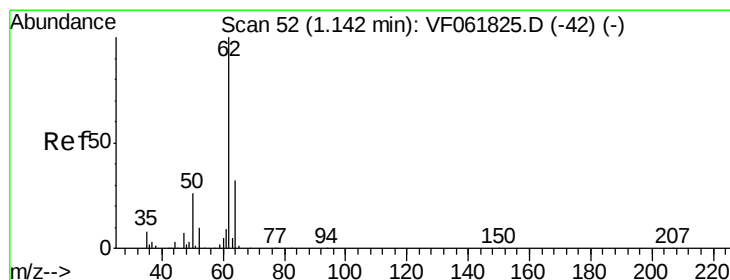
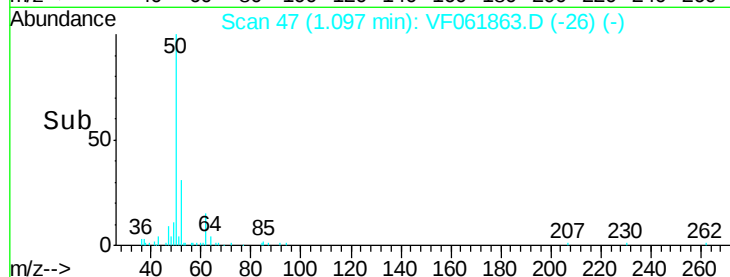
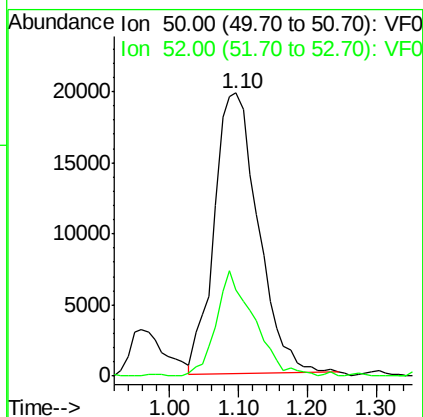
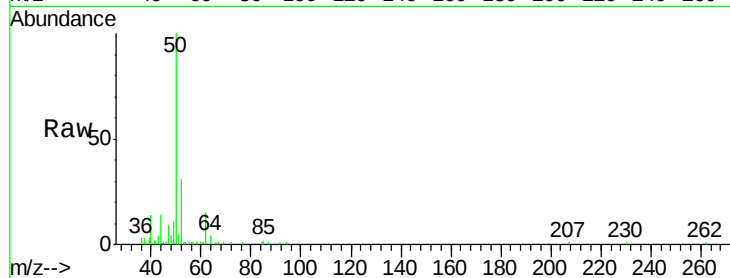
50 100

52 30.6 23.8 35.8

Manual Integrations
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3/11/2019 10:12:10 AM



#4

Vinyl Chloride

Concen: 22.462 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061863.D

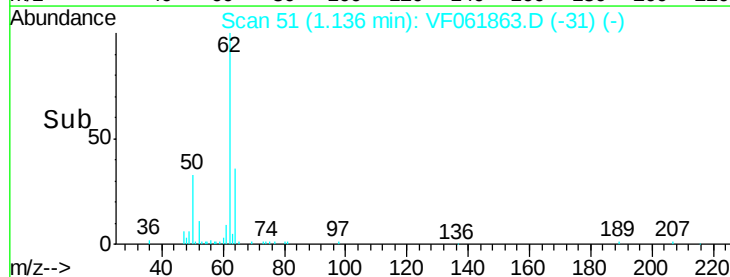
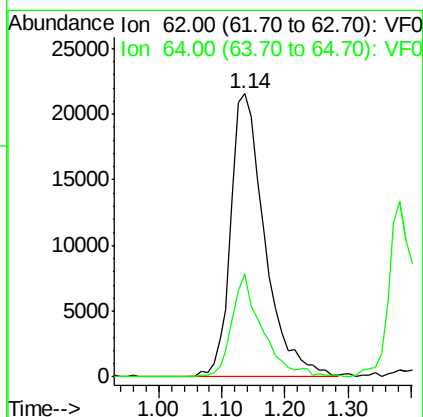
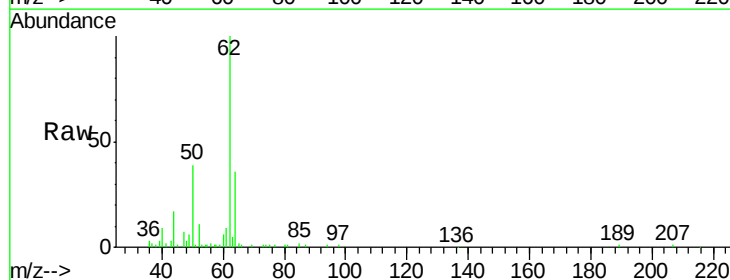
Acq: 8 Mar 2019 15:26

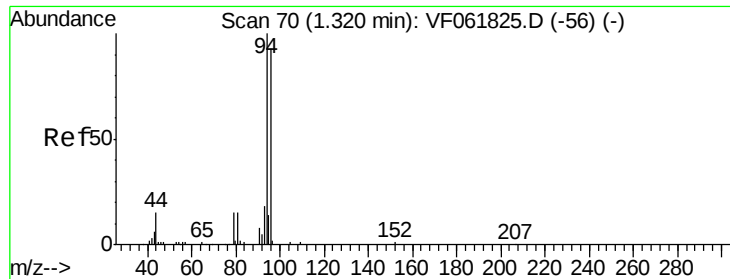
Tgt Ion: 62 Resp: 80597

Ion Ratio Lower Upper

62 100

64 36.1 25.2 37.8





#5

Bromomethane

Concen: 21.801 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampled :

VF0308SBS01

Tot Ion: 94 Resp: 53313

Ion Ratio Lower Upper

94 100

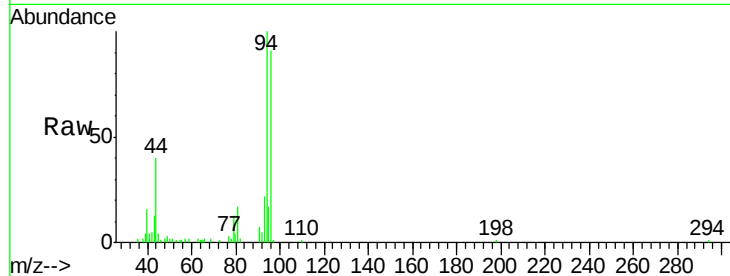
96 91.3 75.2 112.8

Manual Integrations

APPROVED

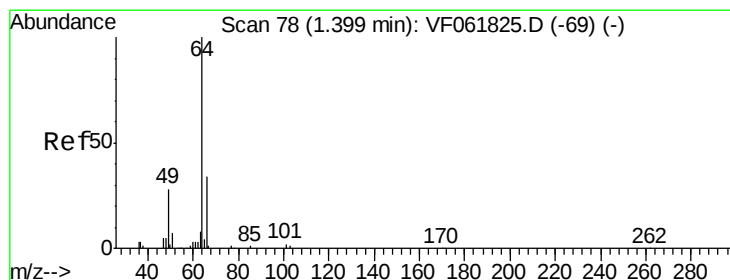
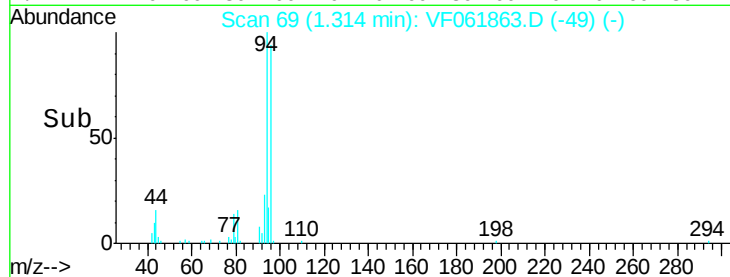
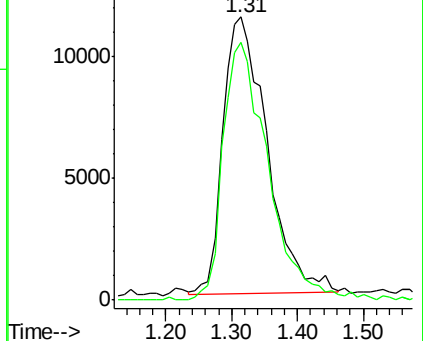
MMDadoda

3/11/2019 10:12:10 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 22.788 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.02 min

Lab File: VF061863.D

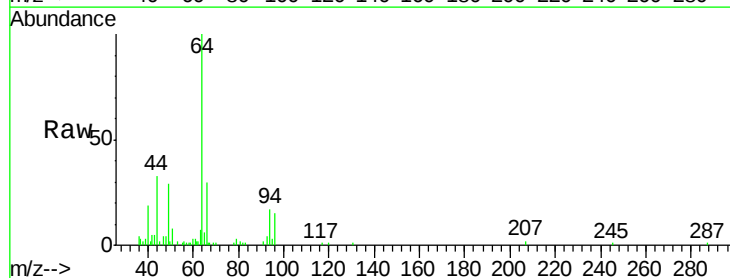
Acq: 8 Mar 2019 15:26

Tgt Ion: 64 Resp: 38868

Ion Ratio Lower Upper

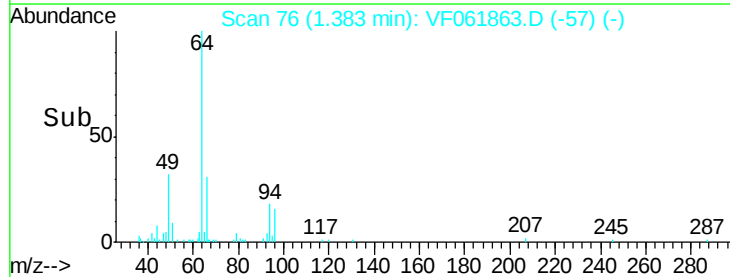
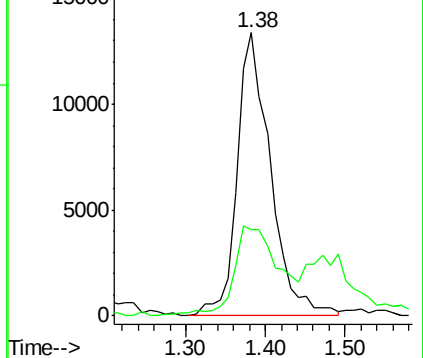
64 100

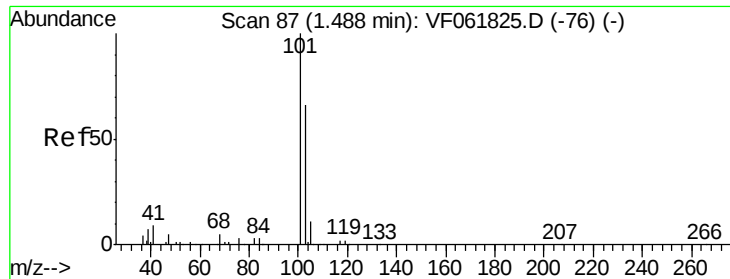
66 30.4 27.0 40.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

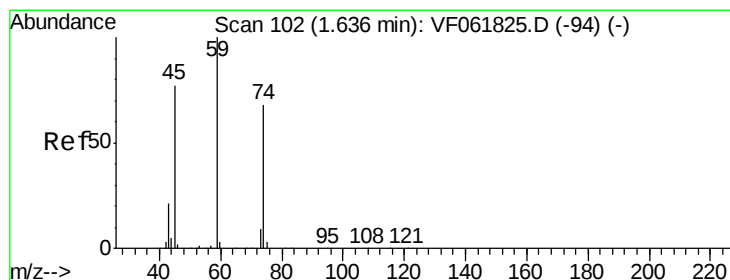
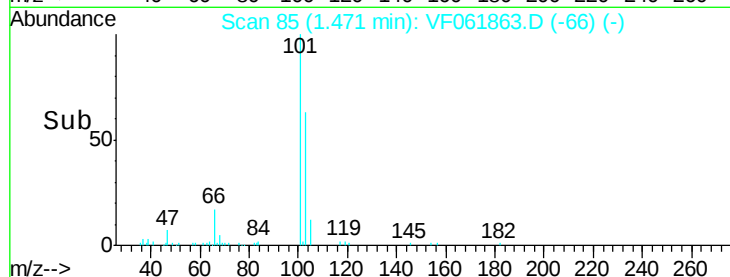
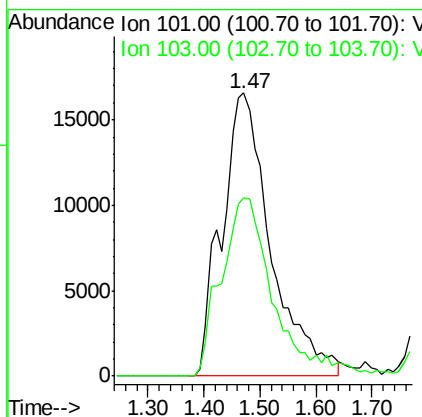
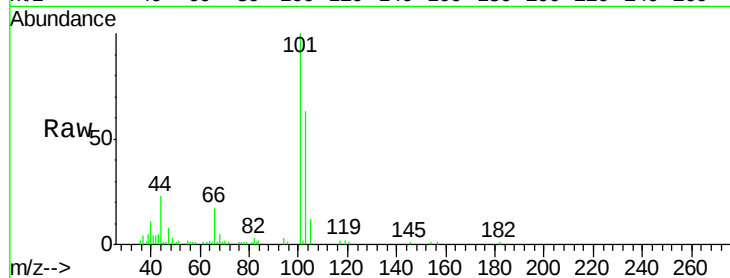
Trichlorofluoromethane
Concen: 23.007 ug/l
RT: 1.47 min Scan# 85
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
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ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.8	79.2

Manual Integrations
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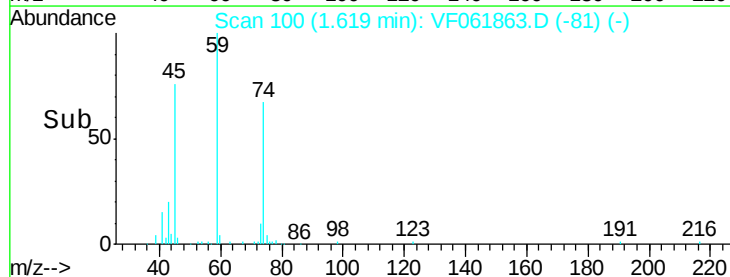
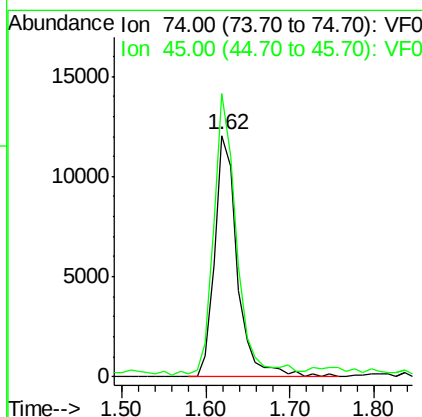
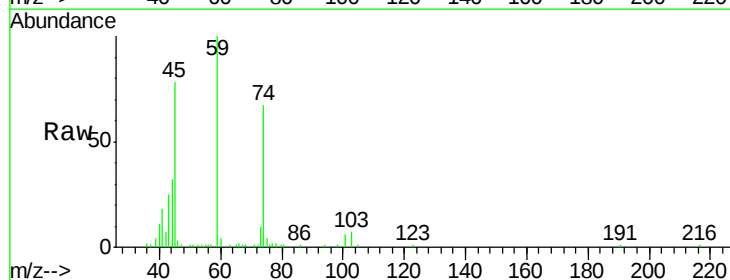
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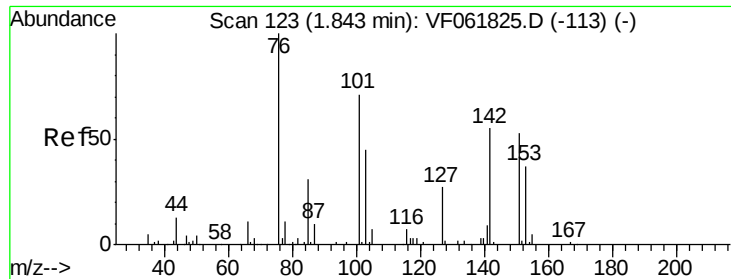


#8

Diethyl Ether
Concen: 22.684 ug/l
RT: 1.62 min Scan# 100
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.4	57.2	171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.363 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

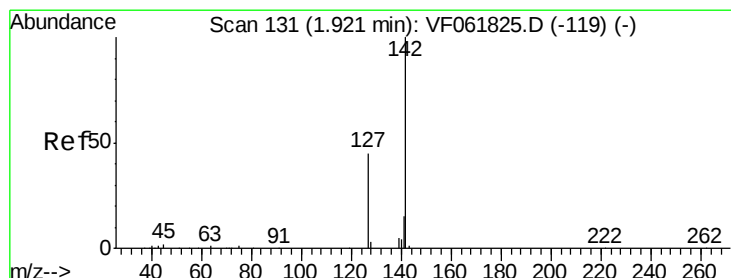
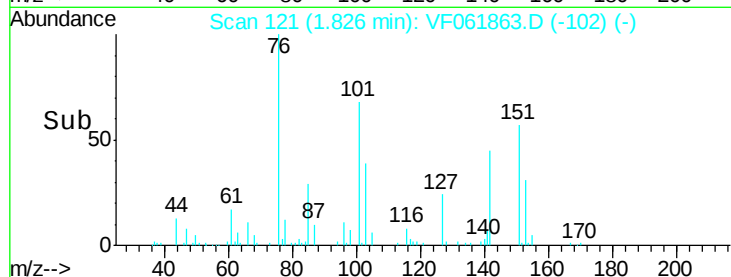
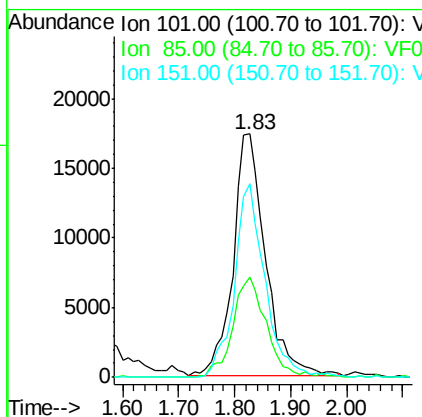
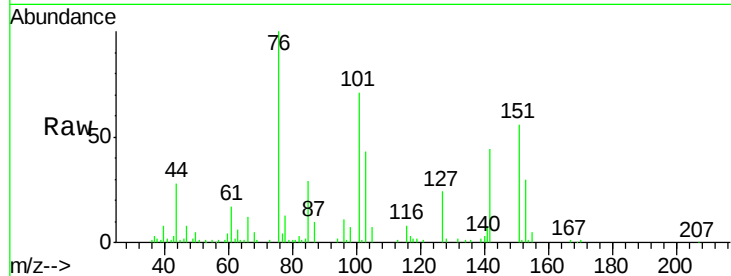
ClientSampleId :

VF0308SBS01

Tot Ion:	101	Resp:	69529
Ion Ratio	Lower	Upper	
101	100		
85	41.0	34.0	51.0
151	79.6	57.3	85.9

Manual Integrations
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MMDadoda
3/11/2019 10:12:10 AM



#10

Methyl Iodide

Concen: 21.772 ug/l m

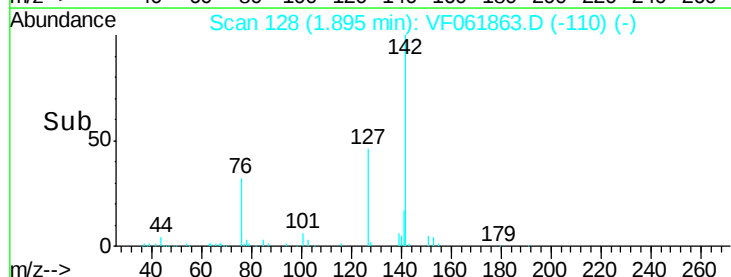
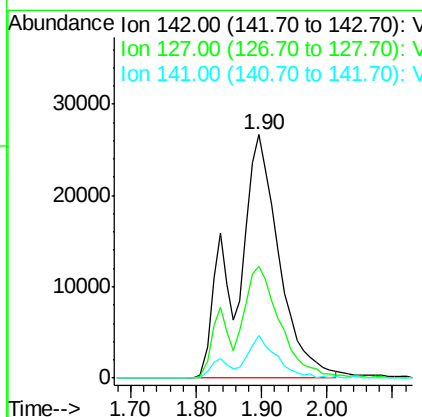
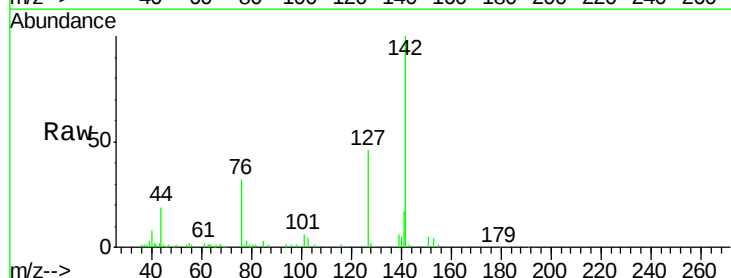
RT: 1.90 min Scan# 128

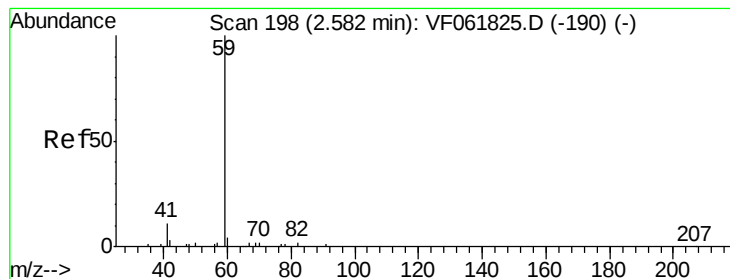
Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion:	142	Resp:	123300
Ion Ratio	Lower	Upper	
142	100		
127	45.9	35.8	53.6
141	17.3	11.7	17.5





#11

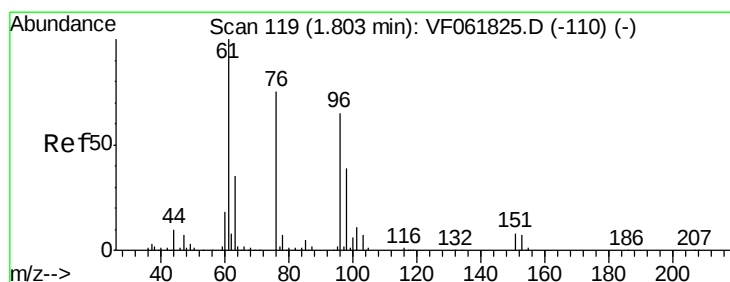
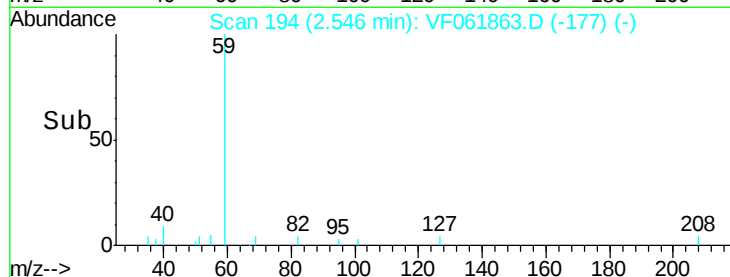
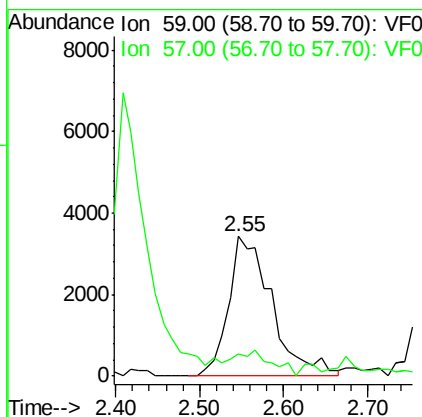
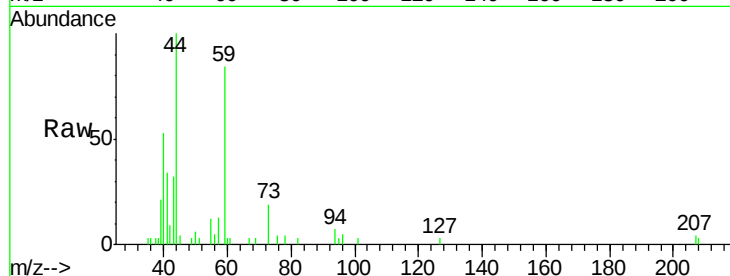
Tert butyl alcohol
Concen: 93.982 ug/l
RT: 2.55 min Scan# 194
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	59	Resp	12341
Ion Ratio	100	Lower	Upper
57	15.5	11.8	17.6

Manual Integrations
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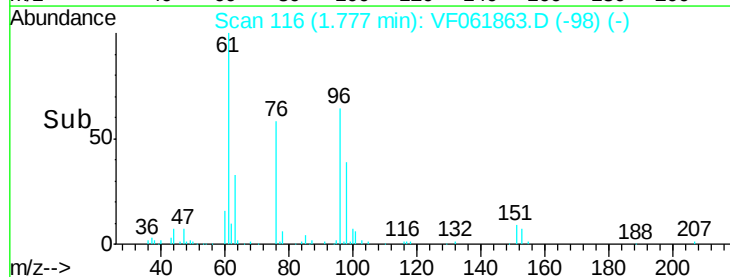
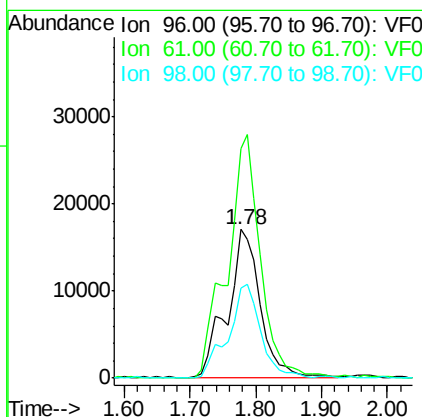
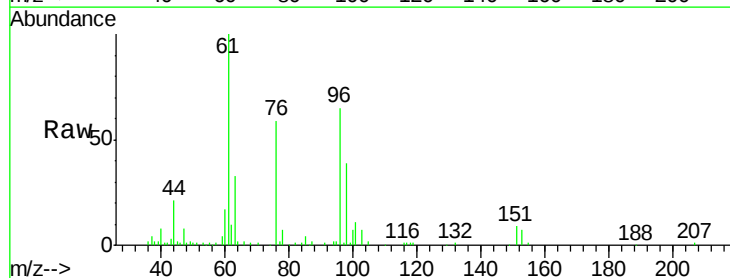
MMDadoda
3/11/2019 10:12:10 AM

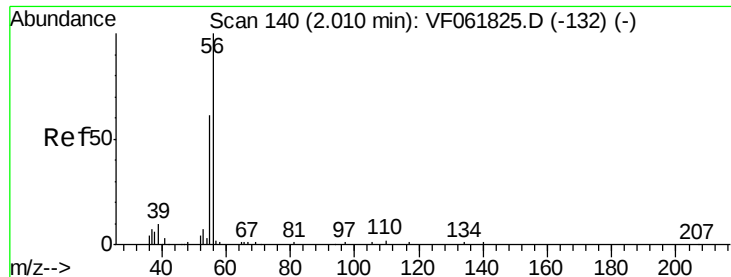


#12

1,1-Dichloroethene
Concen: 22.182 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	96	Resp	60267
Ion Ratio	100	Lower	Upper
61	154.7	122.5	183.7
98	61.0	47.1	70.7





#13

Acrolein

Concen: 108.698 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 56 Resp: 18086

Ion Ratio Lower Upper

56 100

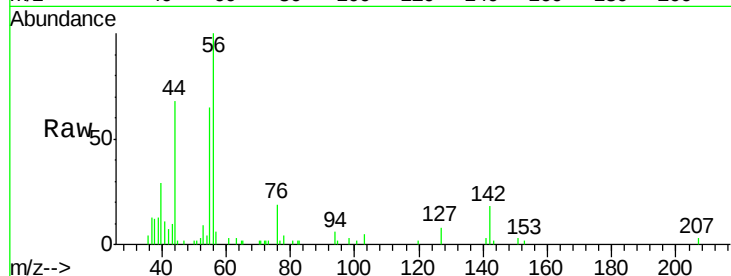
55 65.3 51.3 76.9

Manual Integrations

APPROVED

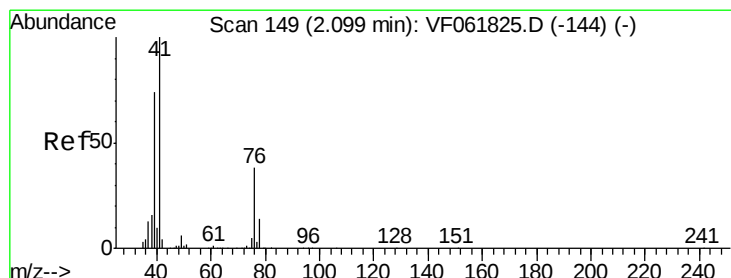
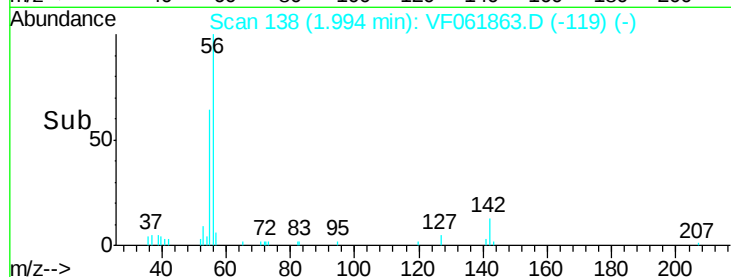
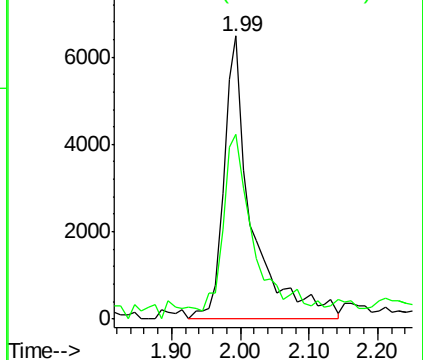
MMDadoda

3/11/2019 10:12:10 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 23.984 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

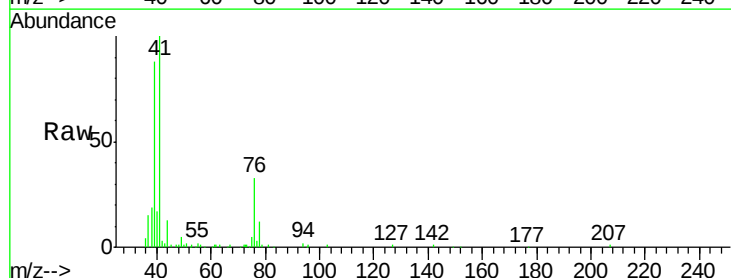
Tgt Ion: 41 Resp: 71788

Ion Ratio Lower Upper

41 100

39 88.0 59.6 89.4

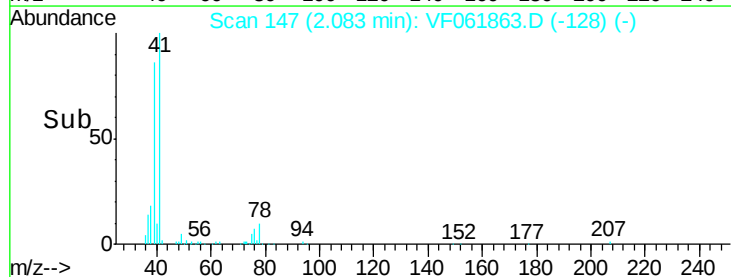
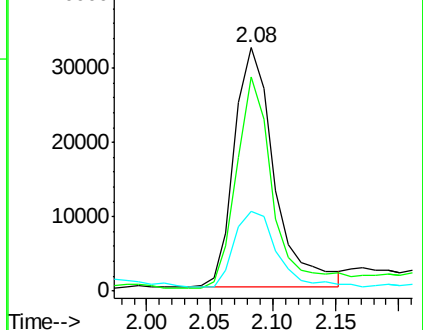
76 32.8 32.3 48.5

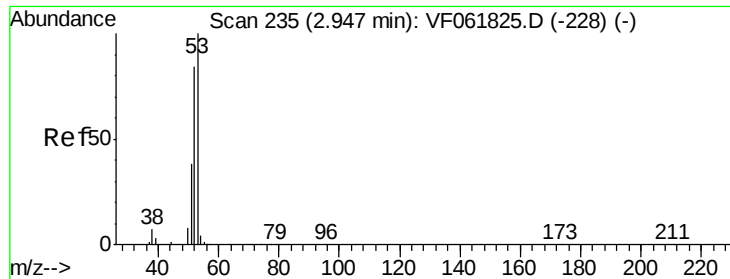


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 102.335 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

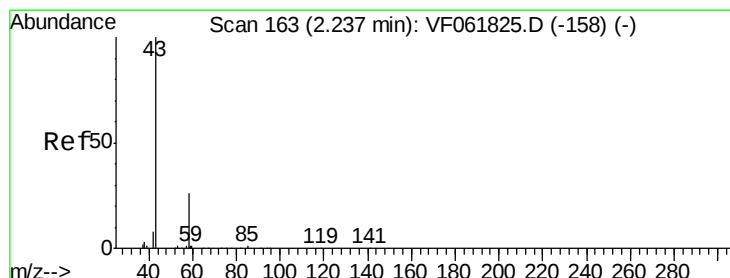
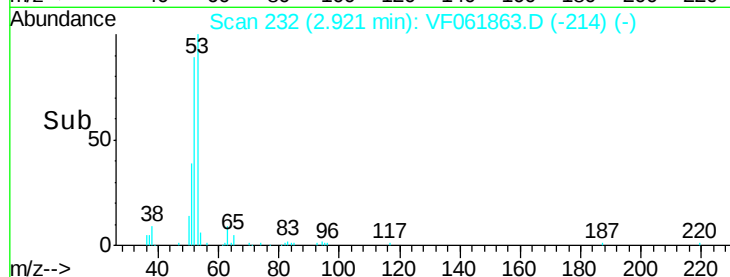
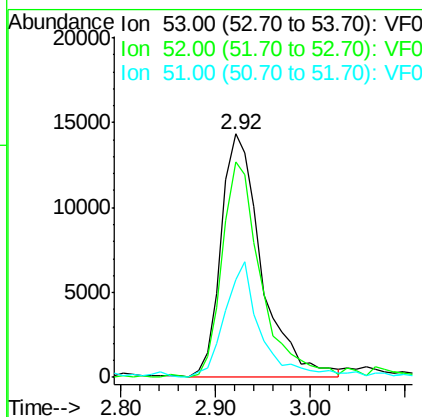
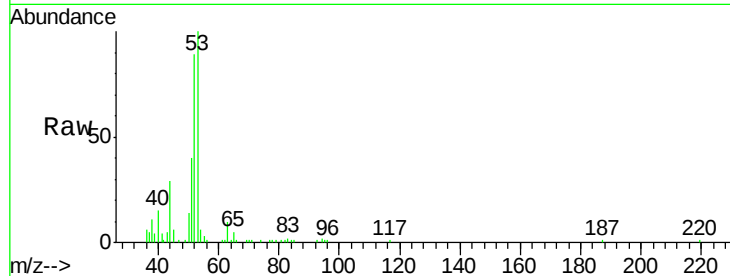
ClientSampleId :

VF0308SBS01

Tot Ion:	53	Resp:	42790
Ion	Ratio	Lower	Upper
53	100		
52	88.6	67.4	101.0
51	39.9	30.7	46.1

Manual Integrations
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MMDadoda
3/11/2019 10:12:10 AM



#16

Acetone

Concen: 132.217 ug/l

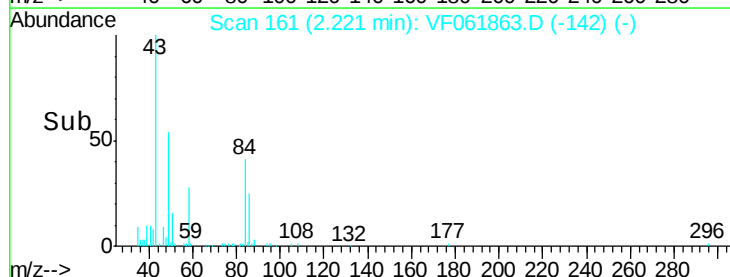
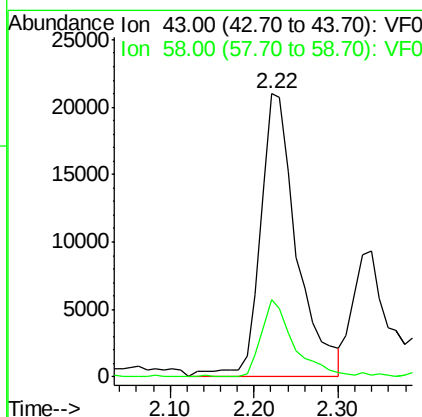
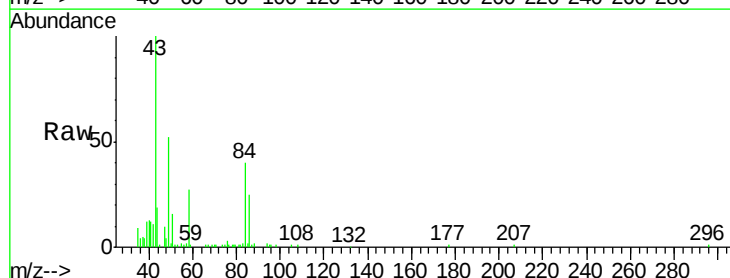
RT: 2.22 min Scan# 161

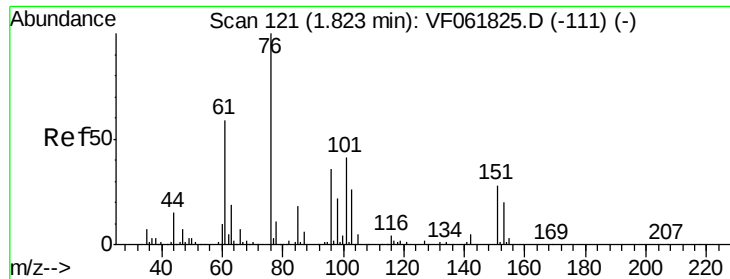
Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion:	43	Resp:	64074
Ion	Ratio	Lower	Upper
43	100		
58	27.4	20.3	30.5





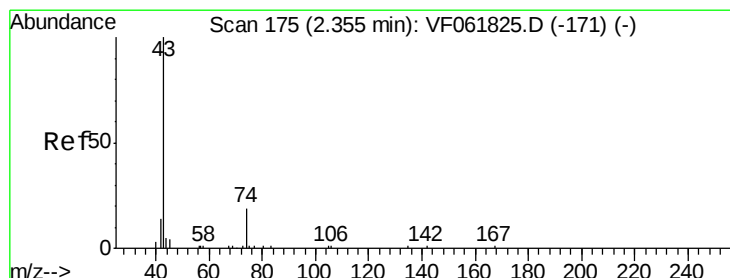
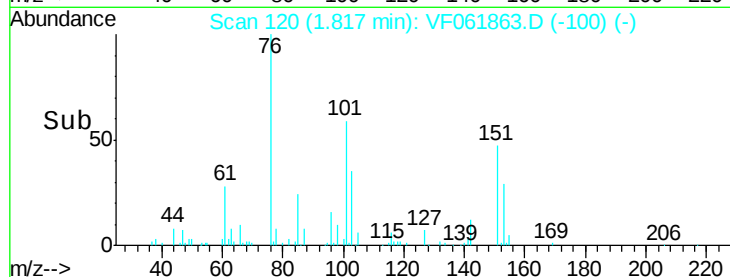
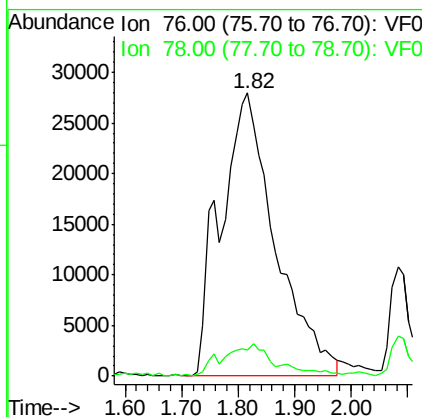
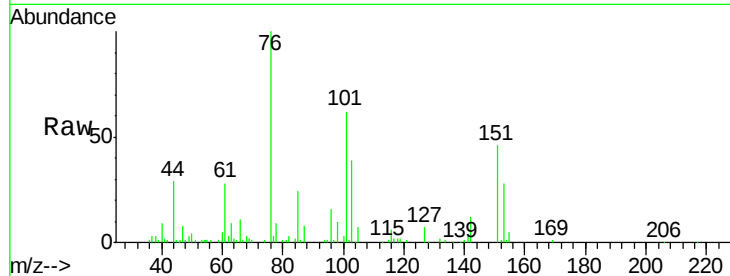
#17
Carbon Disulfide
Concen: 22.320 ug/l m
RT: 1.82 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion: 76 Resp: 188769
Ion Ratio Lower Upper
76 100
78 9.3 9.1 13.7

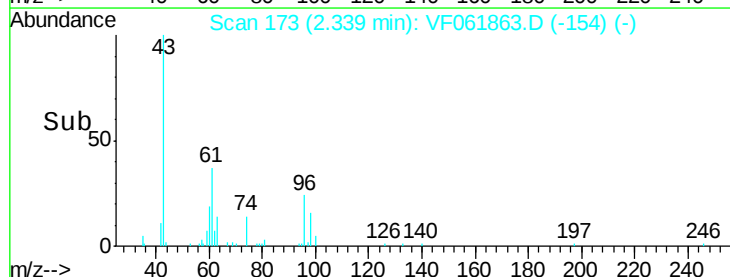
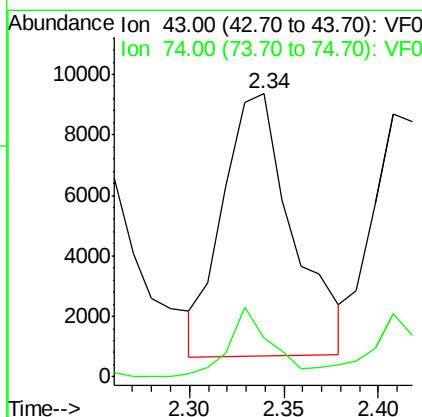
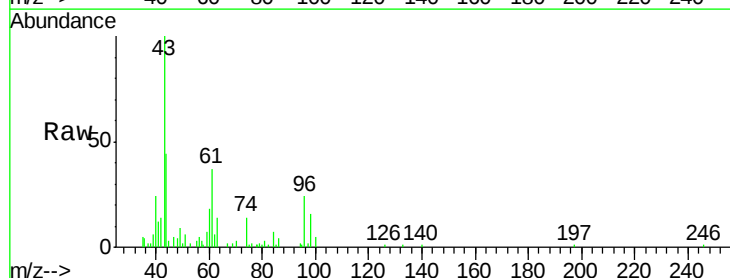
Manual Integrations
APPROVED

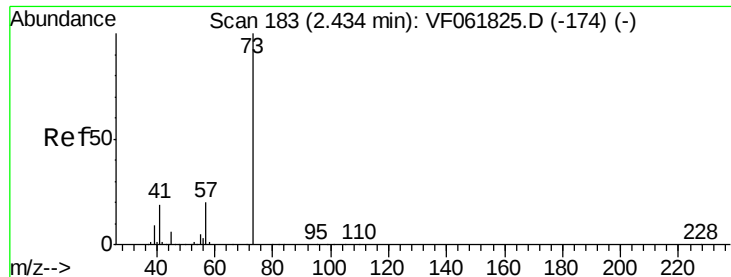
MMDadoda
3/11/2019 10:12:10 AM



#18
Methyl Acetate
Concen: 22.476 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion: 43 Resp: 22201
Ion Ratio Lower Upper
43 100
74 13.7 13.2 19.8





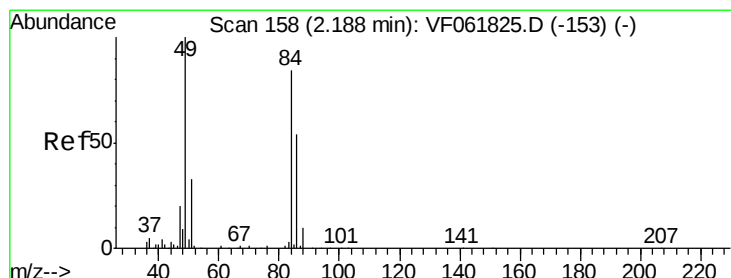
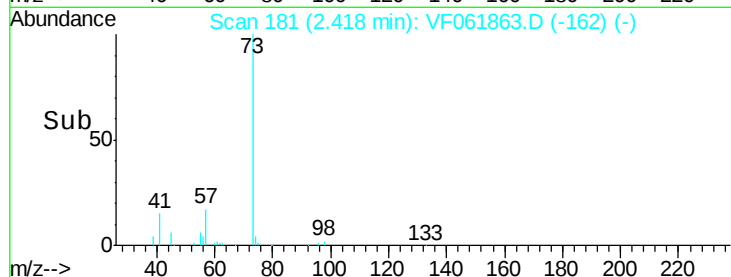
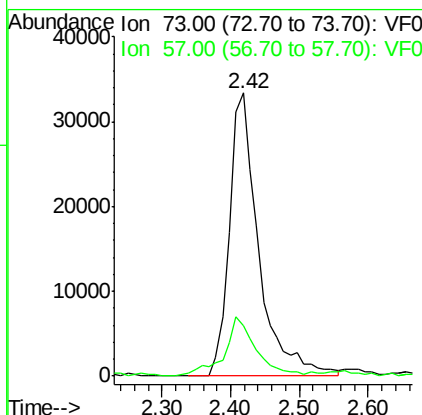
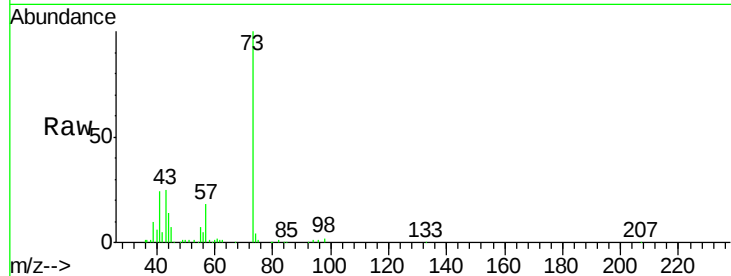
#19
Methyl tert-butyl Ether
Concen: 21.389 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ion	Ratio	Lower	Upper
73	73	100		
57	57	17.9	16.1	24.1

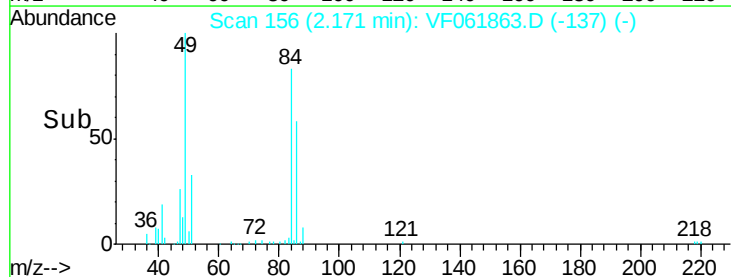
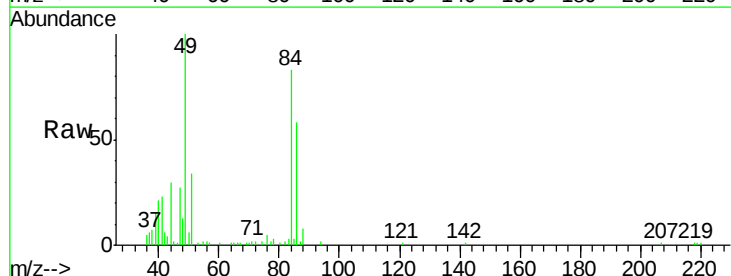
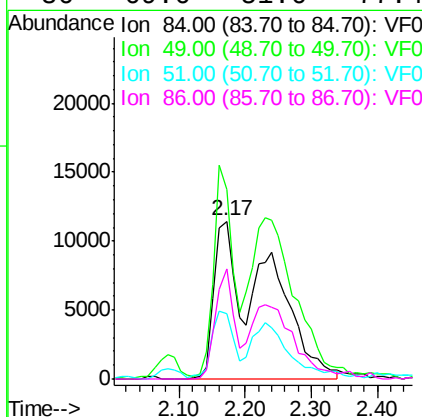
Manual Integrations
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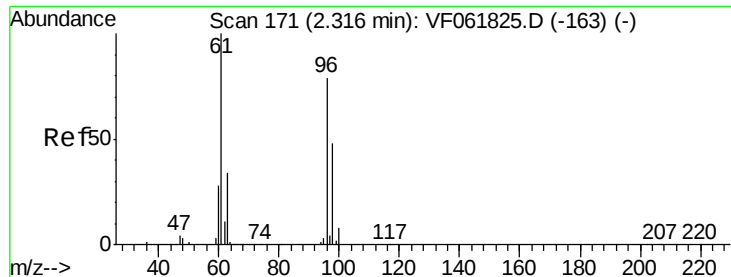
MMDadoda
3/11/2019 10:12:10 AM



#20
Methylene Chloride
Concen: 20.343 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ion	Ratio	Lower	Upper
84	84	100		
49	49	119.9	96.8	145.2
51	51	41.1	31.8	47.6
86	86	69.6	51.6	77.4





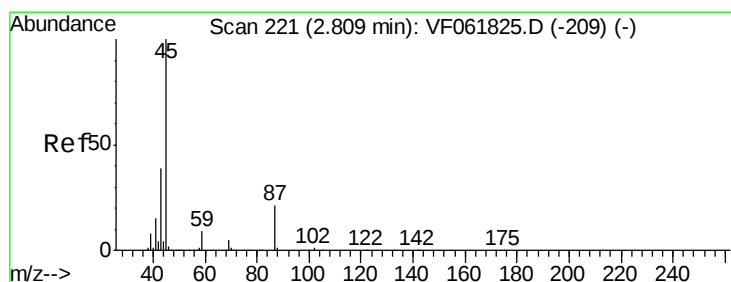
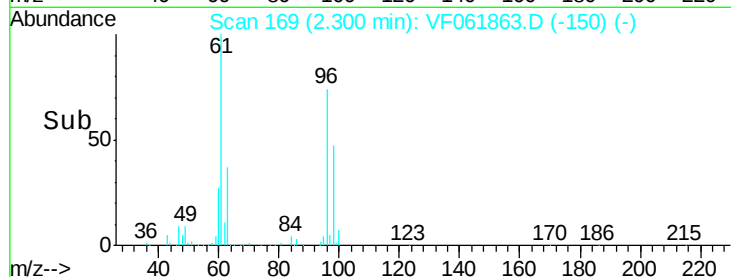
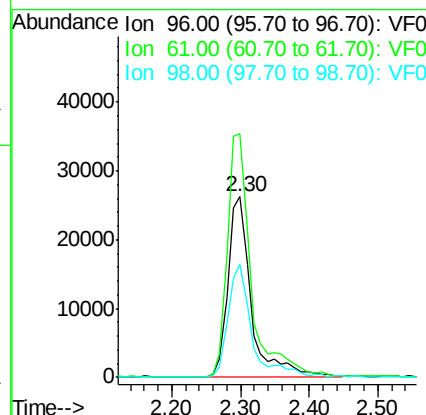
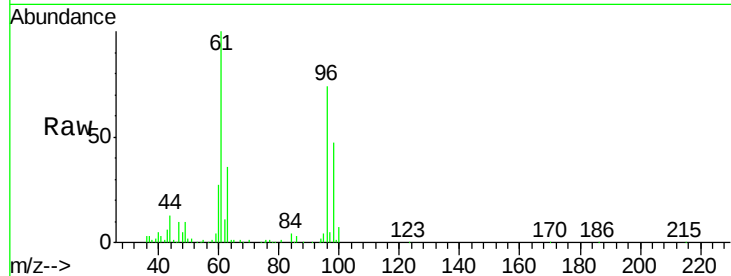
#21
trans-1,2-Dichloroethene
Concen: 24.404 ug/l
RT: 2.30 min Scan# 169
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.8	101.0	151.6
98	62.8	48.8	73.2

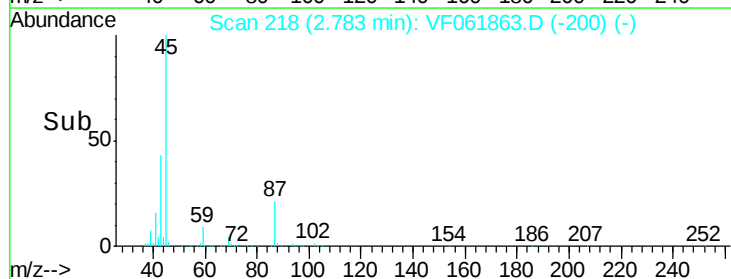
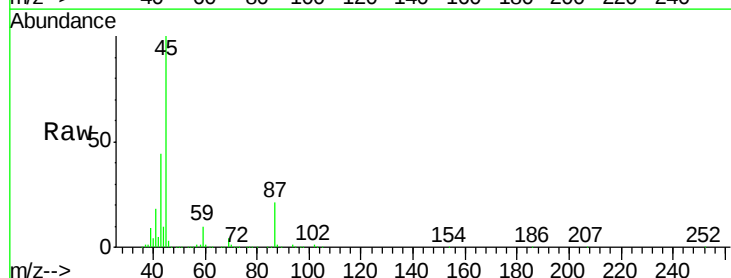
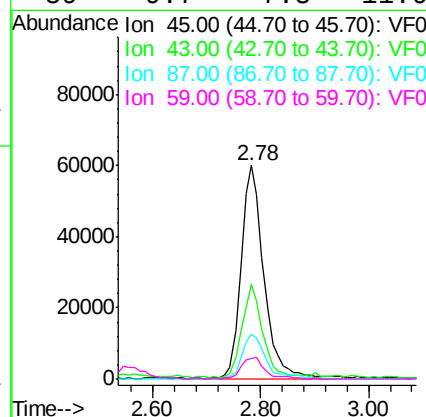
Manual Integrations
APPROVED

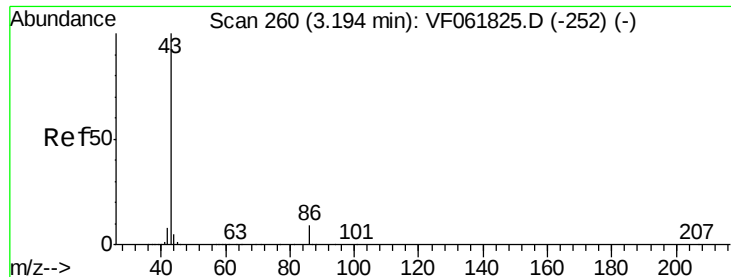
MMDadoda
3/11/2019 10:12:10 AM



#22
Diisopropyl ether
Concen: 22.592 ug/l
RT: 2.78 min Scan# 218
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
45	100		
43	44.1	31.8	47.8
87	21.3	17.1	25.7
59	9.7	7.8	11.6





#23

Vinyl Acetate

Concen: 103.609 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 43 Resp: 360383

Ion Ratio Lower Upper

43 100

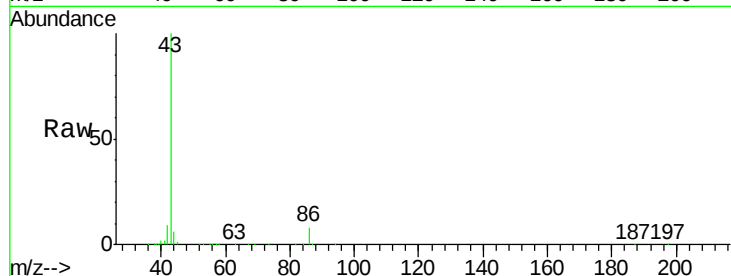
86 8.0 7.0 10.4

Manual Integrations

APPROVED

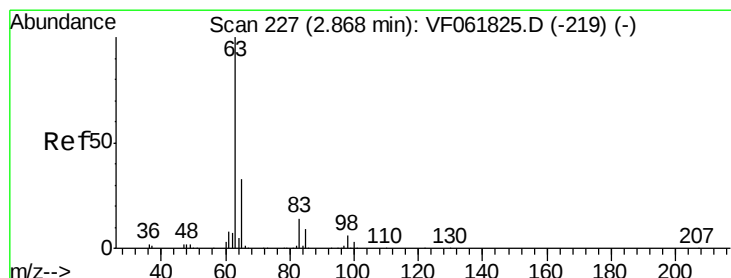
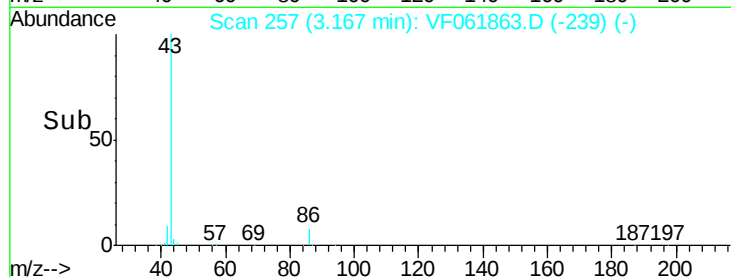
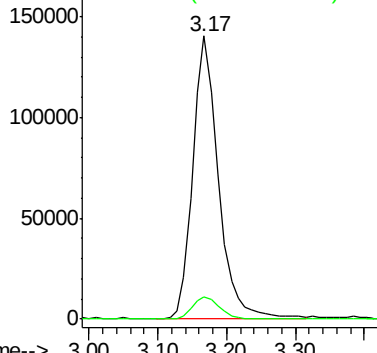
MMDadoda

3/11/2019 10:12:10 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: 22.241 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

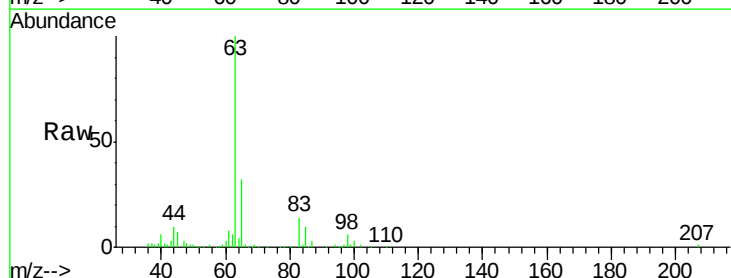
Tgt Ion: 63 Resp: 103506

Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.6

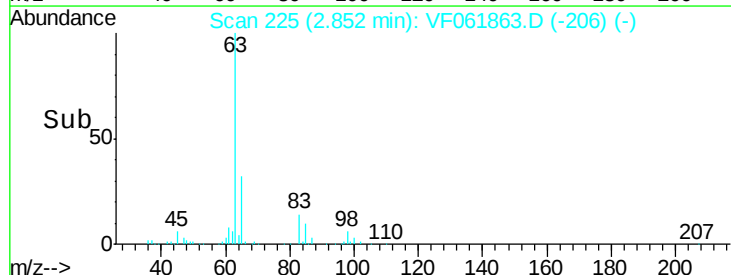
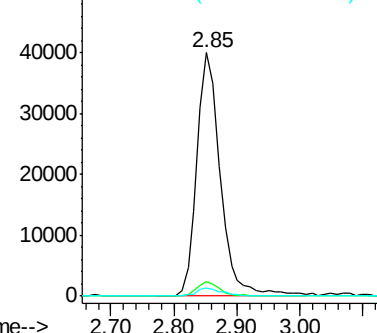
100 3.3 1.8 5.3

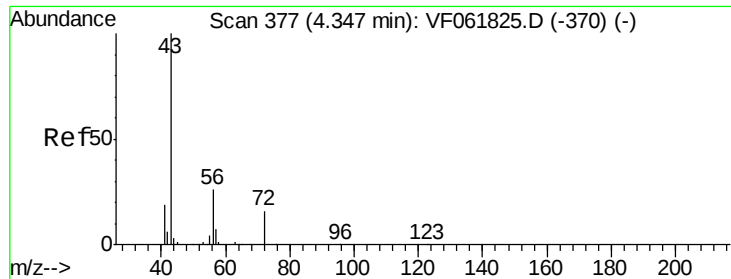


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 104.221 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 43 Resp: 102736

Ion Ratio Lower Upper

43 100

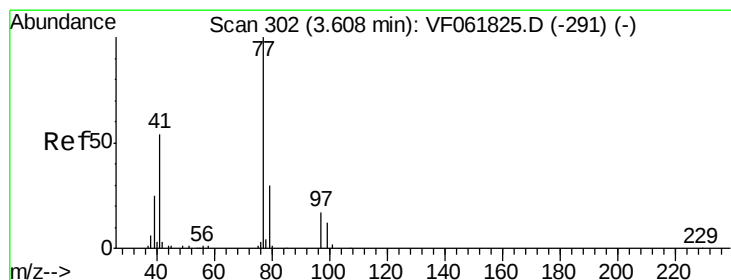
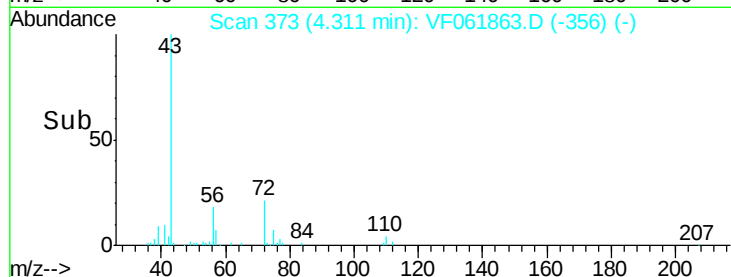
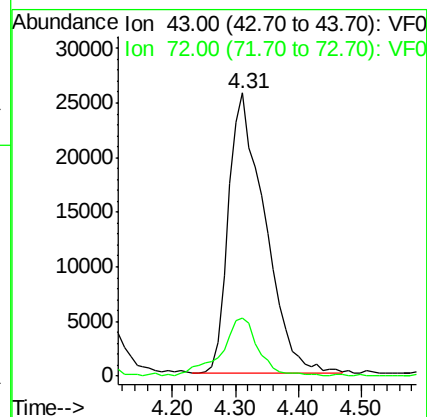
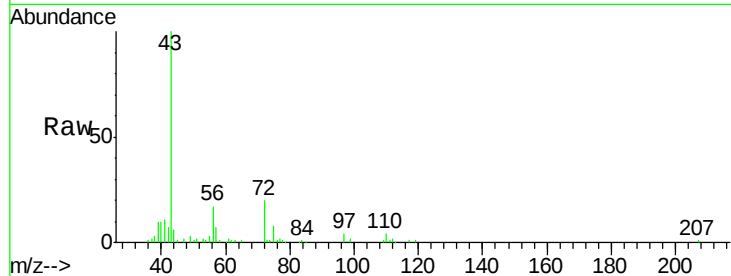
72 20.3 16.2 24.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 22.179 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.04 min

Lab File: VF061863.D

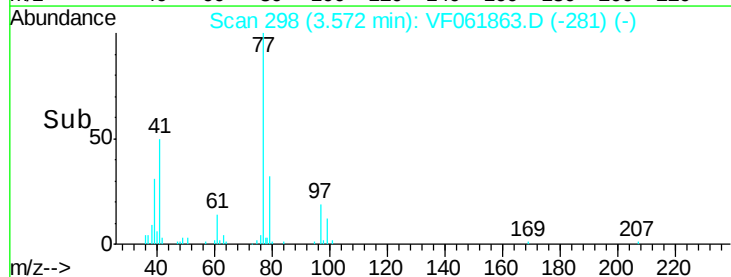
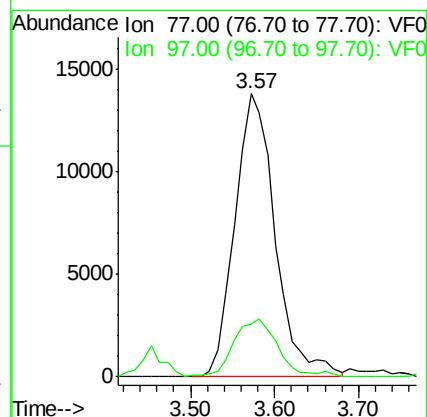
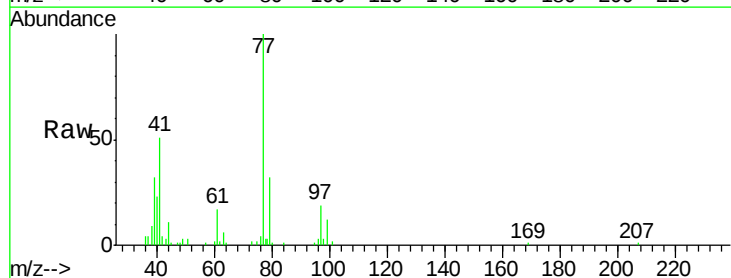
Acq: 8 Mar 2019 15:26

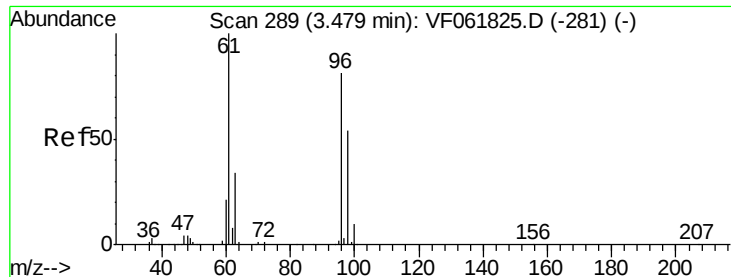
Tgt Ion: 77 Resp: 46077

Ion Ratio Lower Upper

77 100

97 18.7 10.4 31.4





#27

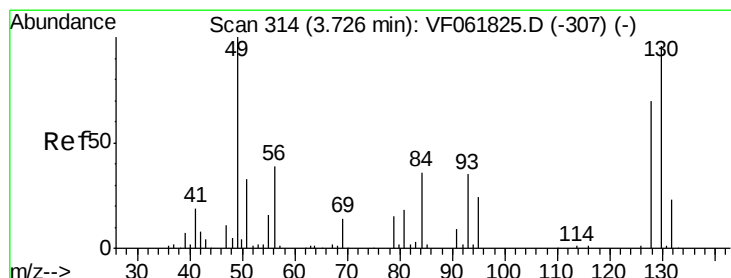
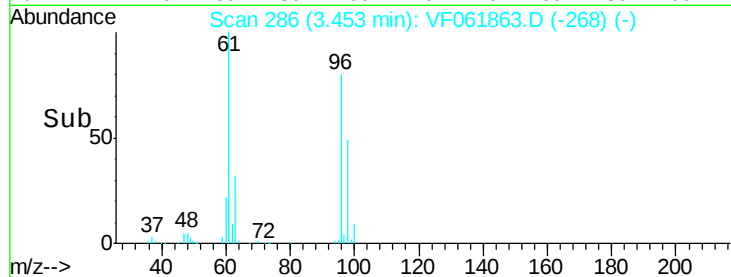
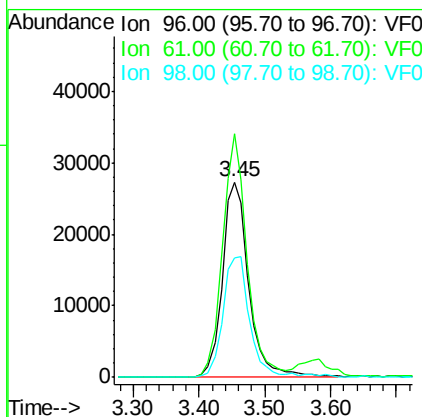
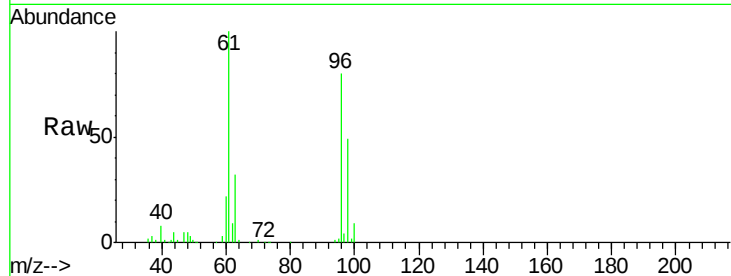
cis-1,2-Dichloroethene
Concen: 21.537 ug/l
RT: 3.45 min Scan# 286
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.8	0.0	245.8
98	61.5	0.0	132.6

Manual Integrations
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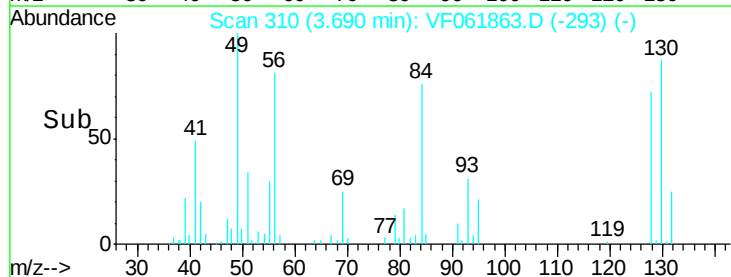
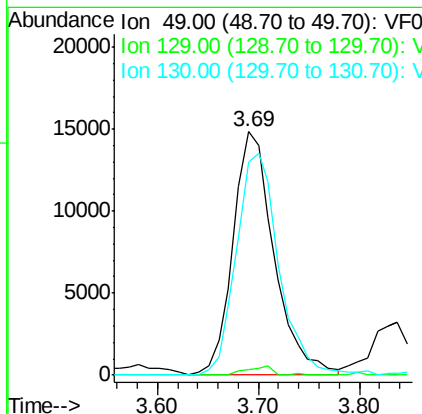
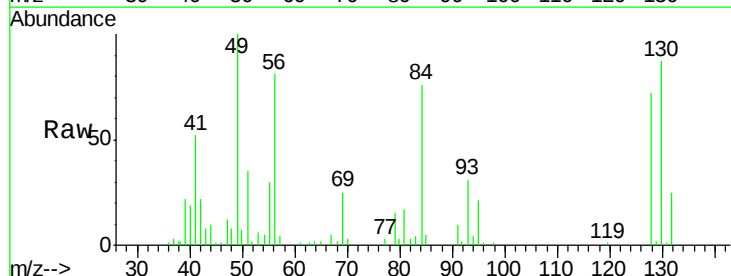
MMDadoda
3/11/2019 10:12:10 AM

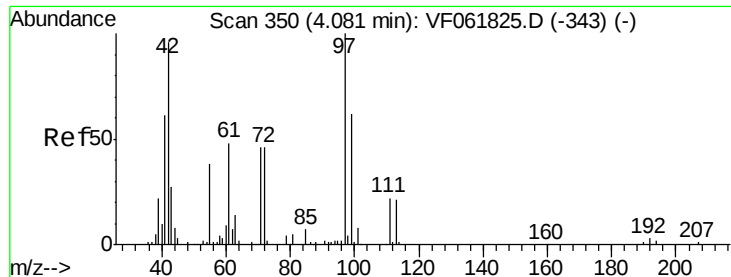


#28

Bromochloromethane
Concen: 20.803 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	0.0#
130	87.4	76.9	115.3





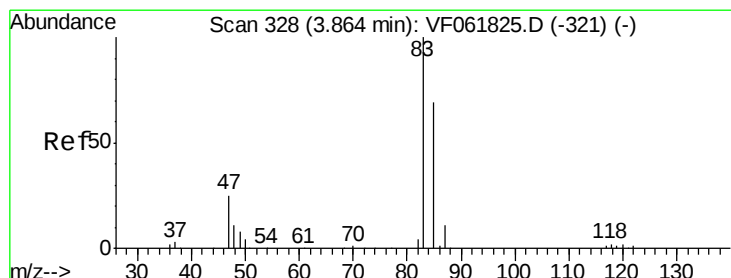
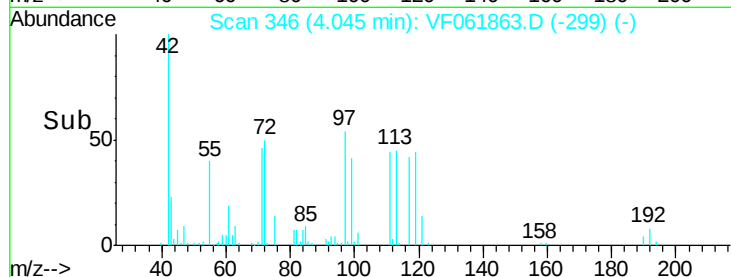
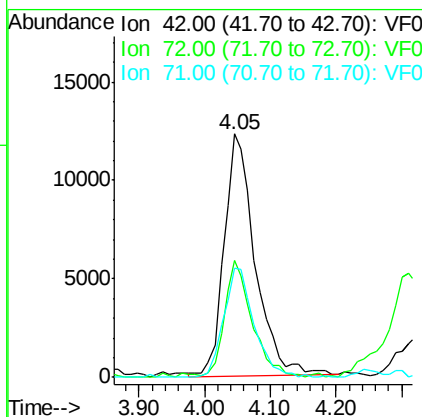
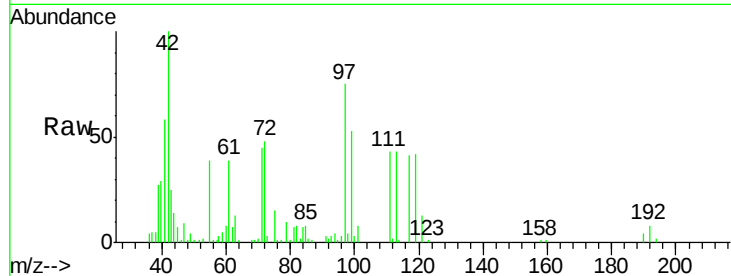
#29
Tetrahydrofuran
Concen: 94.629 ug/l
RT: 4.05 min Scan# 346
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.4	34.4	51.6
71	44.6	34.6	52.0

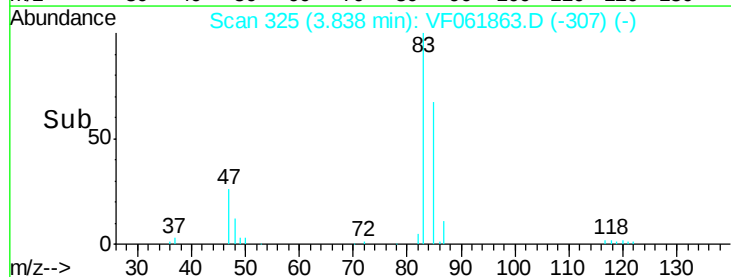
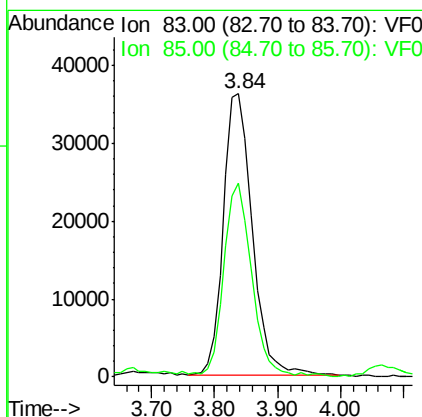
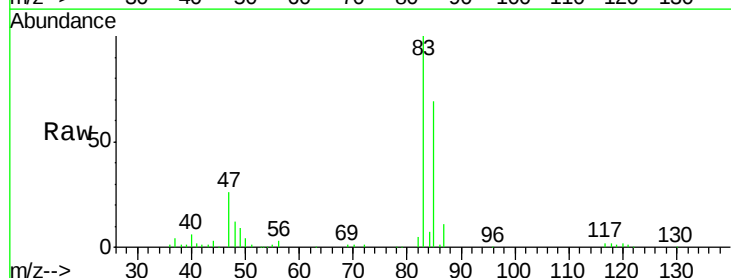
Manual Integrations
APPROVED

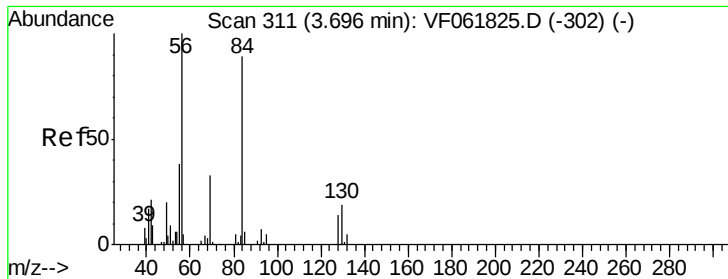
MMDadoda
3/11/2019 10:12:10 AM



#30
Chloroform
Concen: 21.658 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.6	55.3	82.9





#31

Cyclohexane

Concen: 20.819 ug/l m

RT: 3.67 min Scan# 308

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

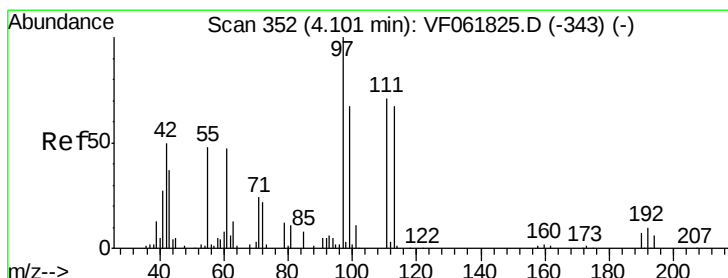
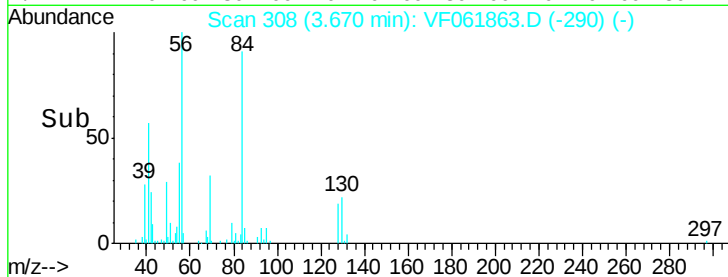
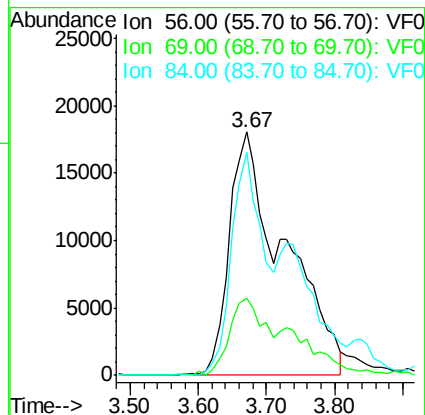
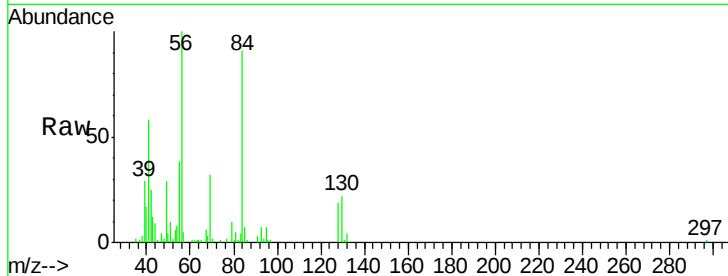
ClientSampleId :

VF0308SBS01

Tot Ion:	56	Resp:	101480
Ion	Ratio	Lower	Upper
56	100		
69	31.9	26.0	39.0
84	91.5	71.0	106.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 21.860 ug/l

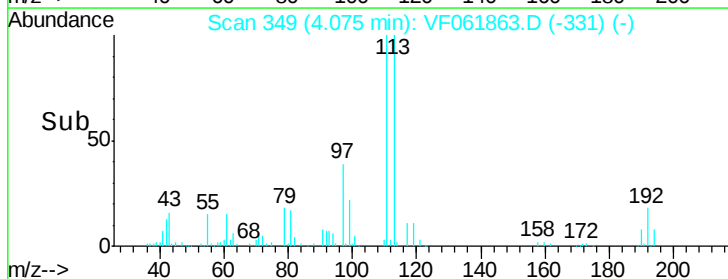
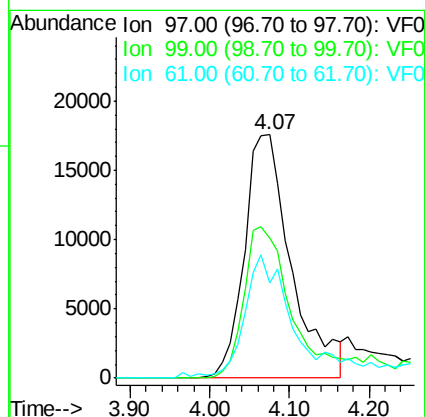
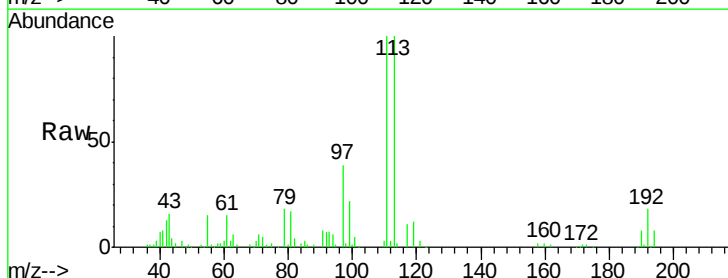
RT: 4.07 min Scan# 349

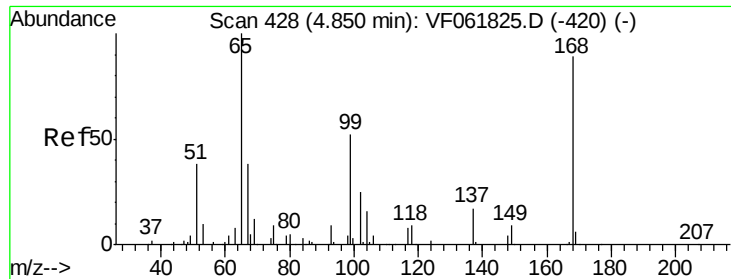
Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion:	97	Resp:	71625
Ion	Ratio	Lower	Upper
97	100		
99	57.4	53.8	80.8
61	39.0	37.9	56.9





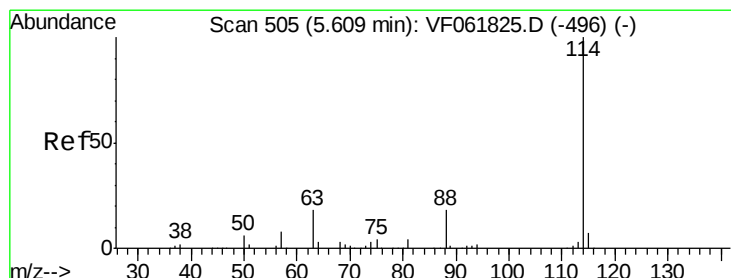
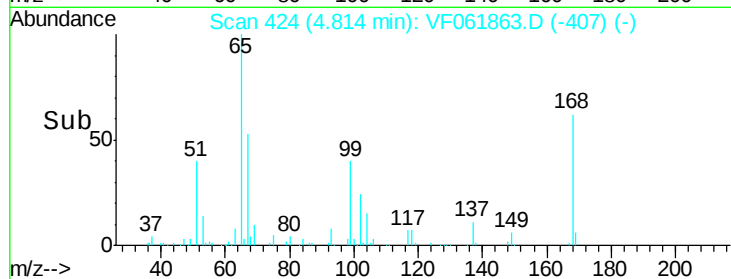
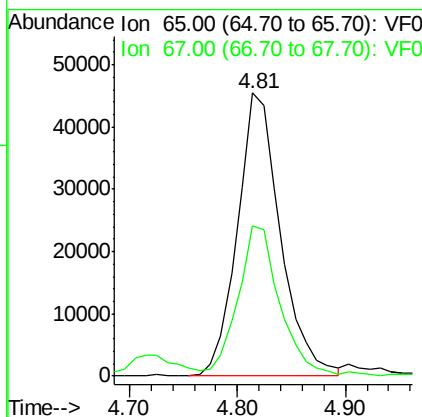
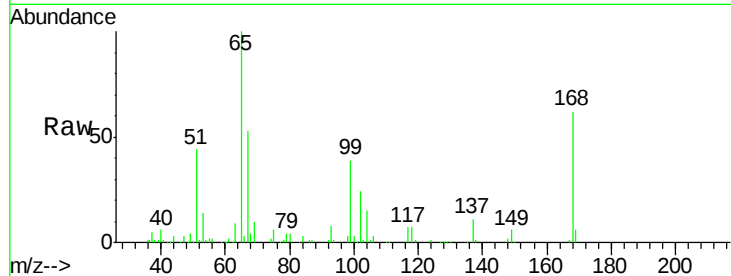
#33
 1,2-Dichloroethane-d4
 Concen: 54.291 ug/l
 RT: 4.81 min Scan# 424
 Delta R.T. -0.04 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	125602		
67	53.0	0.0	108.6	

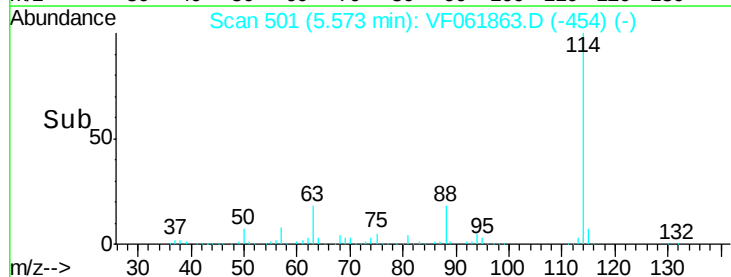
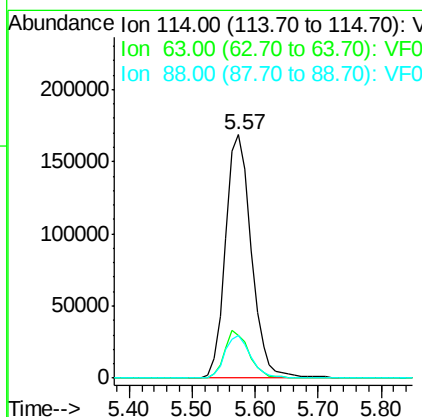
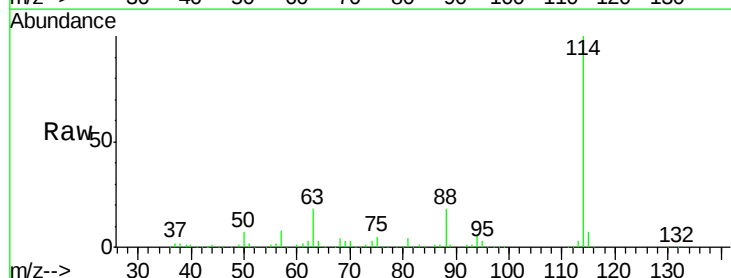
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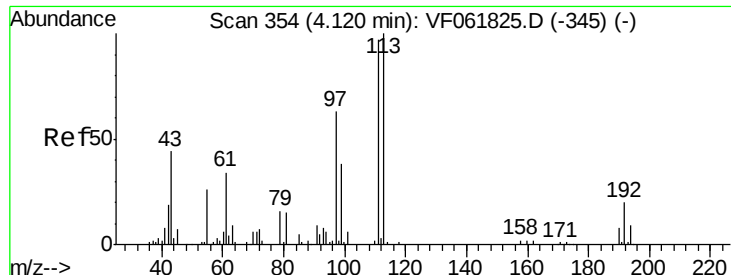
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 3/11/2019 10:12:10 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.04 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	481121		
63	17.7	0.0	35.6	
88	17.6	0.0	35.6	





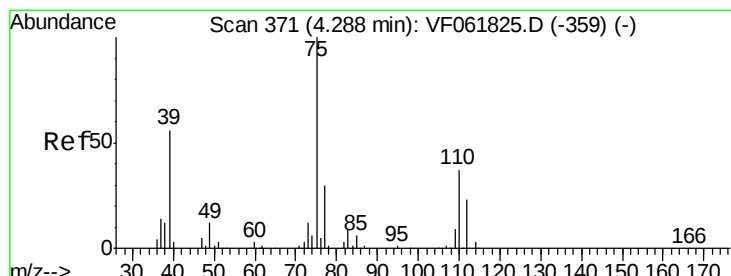
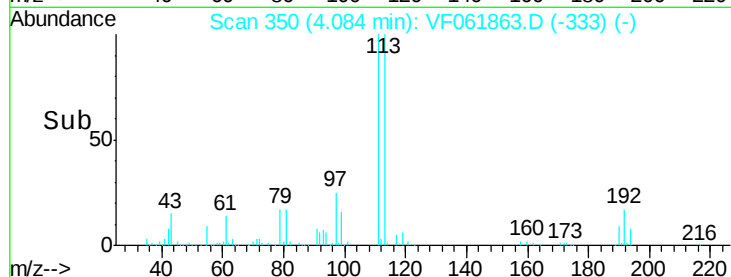
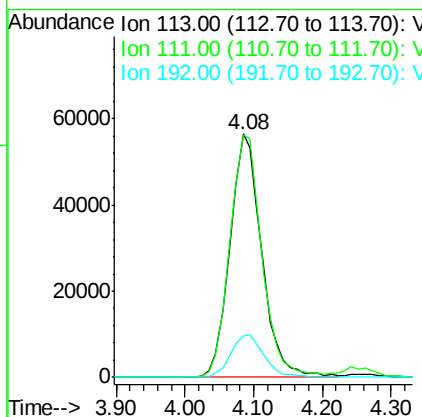
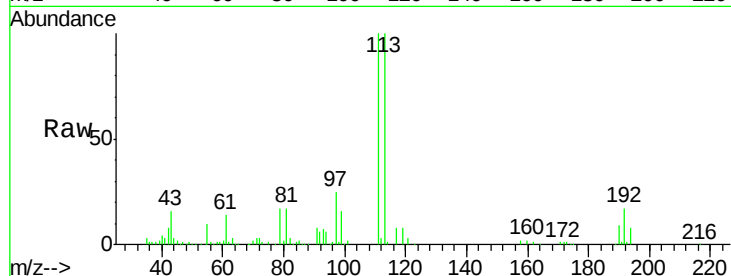
#35
Dibromofluoromethane
Concen: 53.681 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	180238		
111	99.6	77.6	116.4	
192	17.9	15.9	23.9	

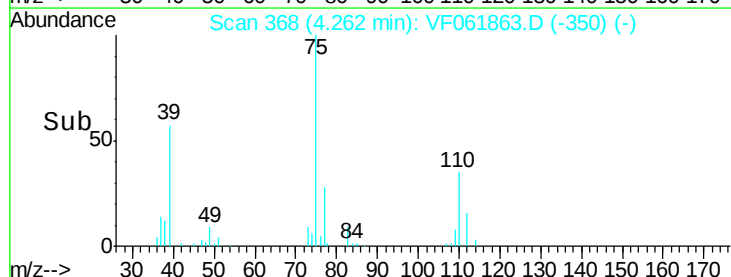
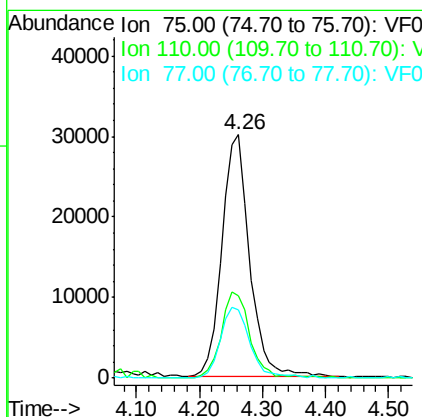
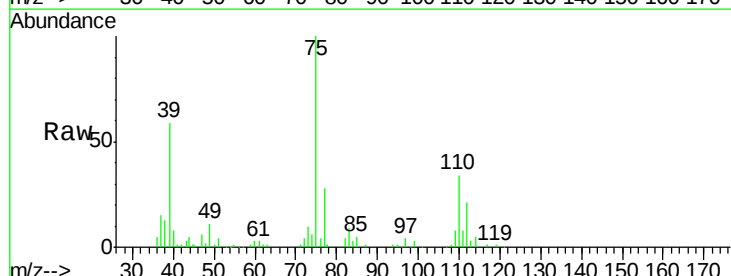
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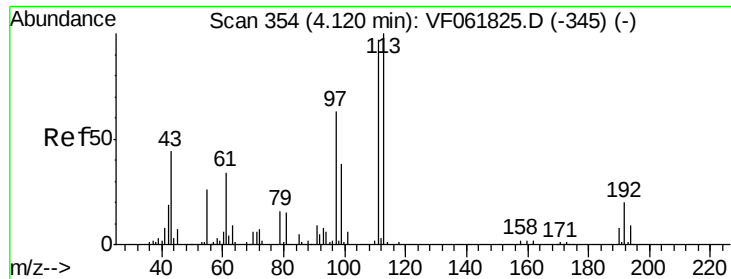
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#36
1,1-Dichloropropene
Concen: 20.196 ug/l
RT: 4.26 min Scan# 368
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	91785		
110	33.9	18.6	55.6	
77	27.8	24.2	36.2	





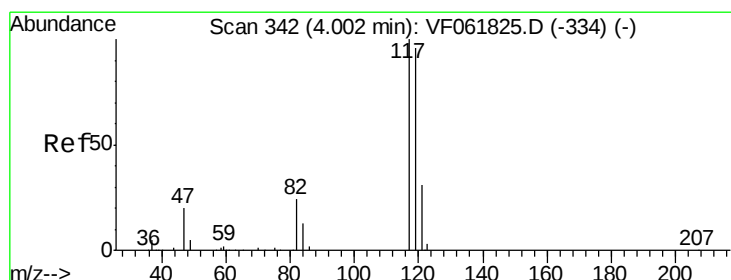
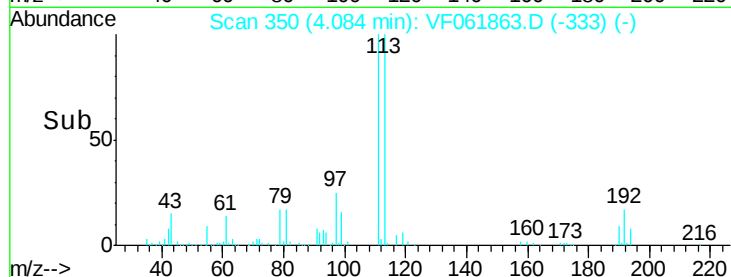
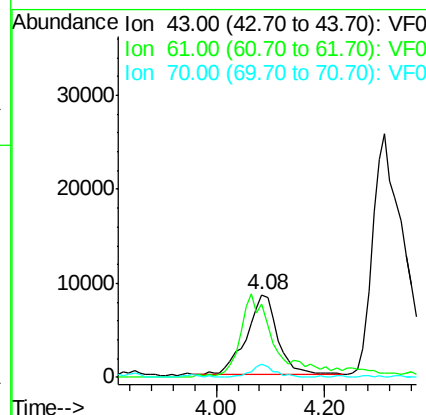
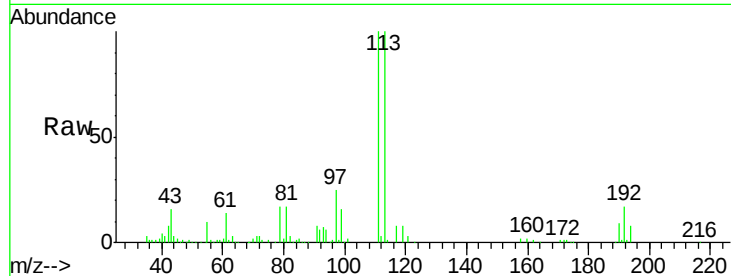
#37
Ethyl Acetate
Concen: 18.002 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	89.2	60.7	91.1
70	15.7	10.6	15.8

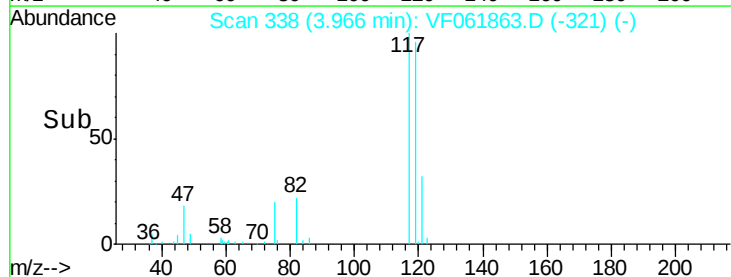
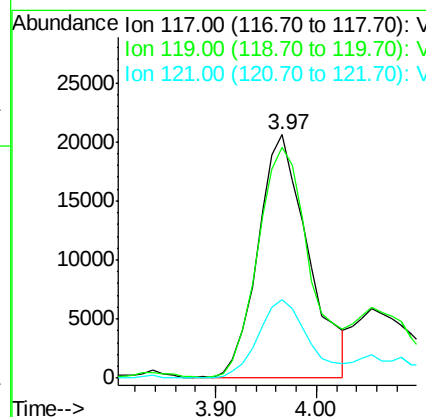
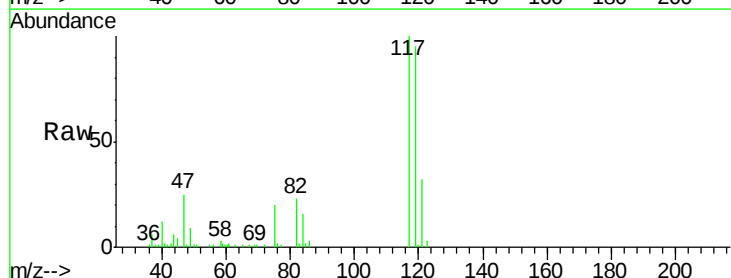
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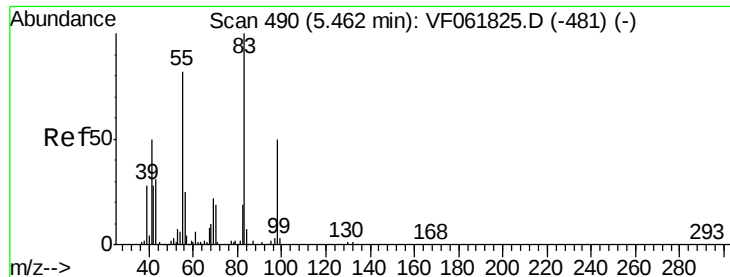
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#38
Carbon Tetrachloride
Concen: 22.281 ug/l
RT: 3.97 min Scan# 338
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.6	114.8
121	32.0	24.4	36.6





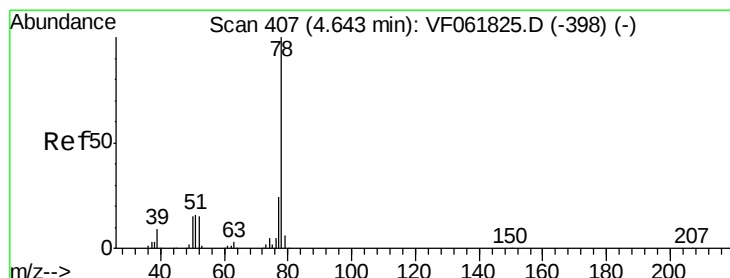
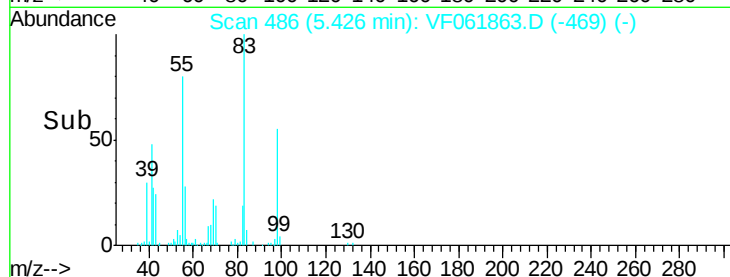
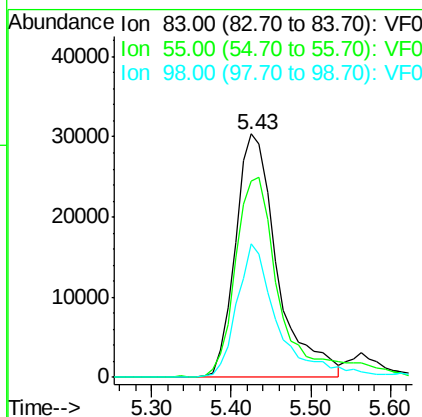
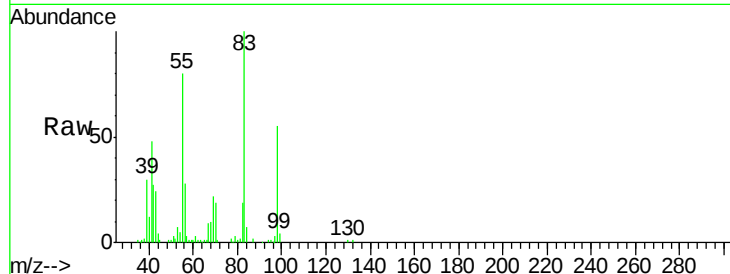
#39
Methvlcvclohexane
Concen: 20.546 ug/l
RT: 5.43 min Scan# 486
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.4	66.0	99.0
98	54.8	39.8	59.6

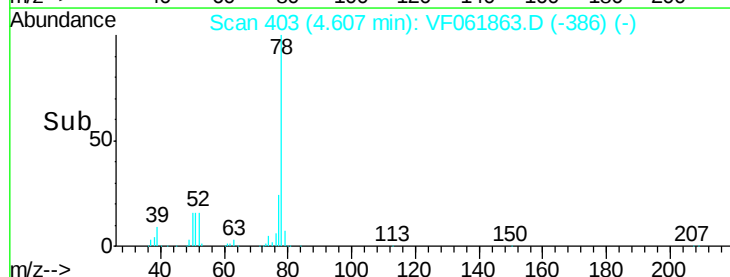
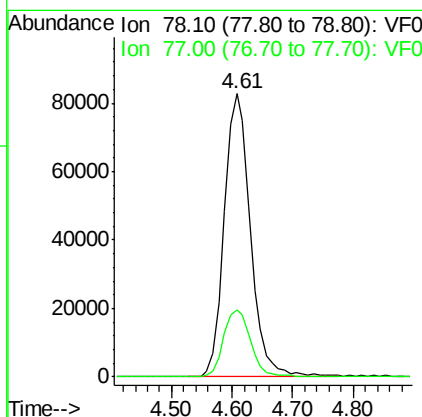
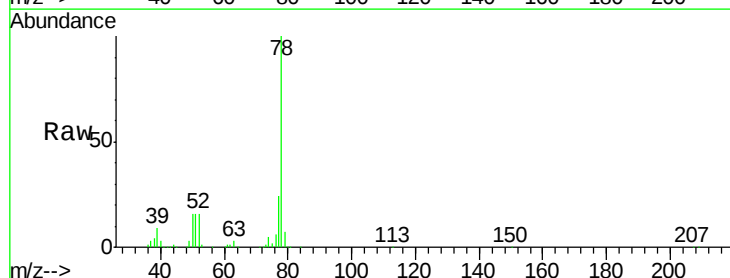
Manual Integrations
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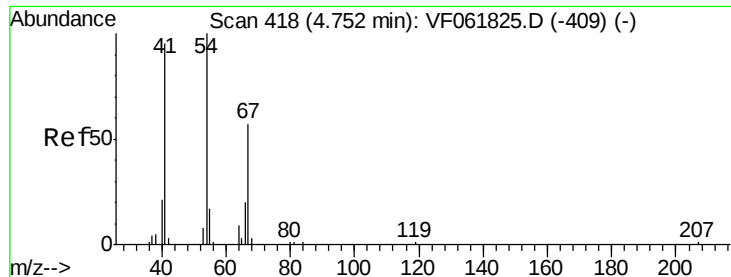
MMDadoda
3/11/2019 10:12:10 AM



#40
Benzene
Concen: 20.948 ug/l
RT: 4.61 min Scan# 403
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.5	29.3





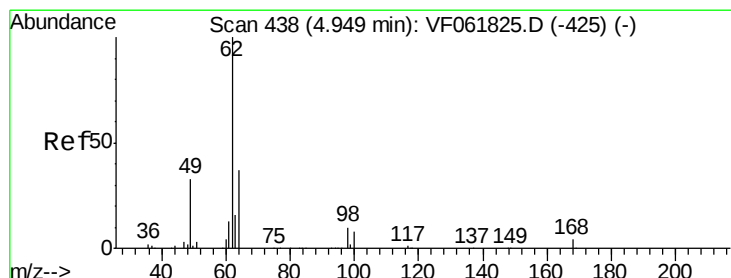
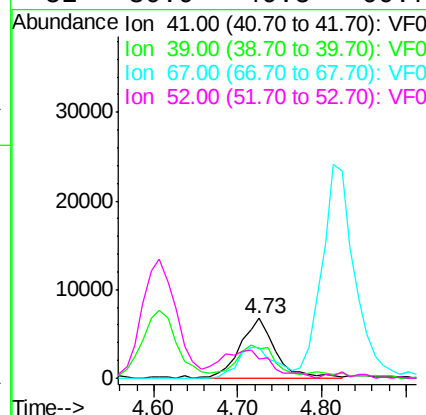
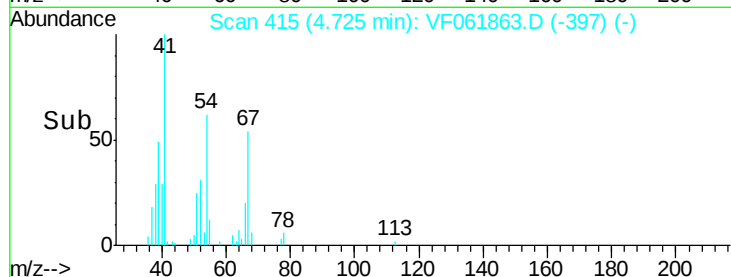
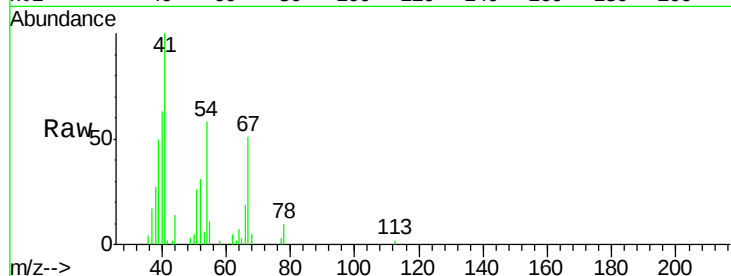
#41
Methacrylonitrile
Concen: 19.104 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	41	Resp	19966
Ion Ratio	Lower	Upper	
41	100		
39	49.5	43.0	64.6
67	50.5	47.8	71.8
52	30.9	40.5	60.7#

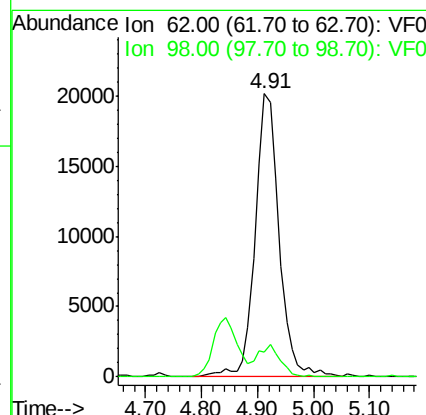
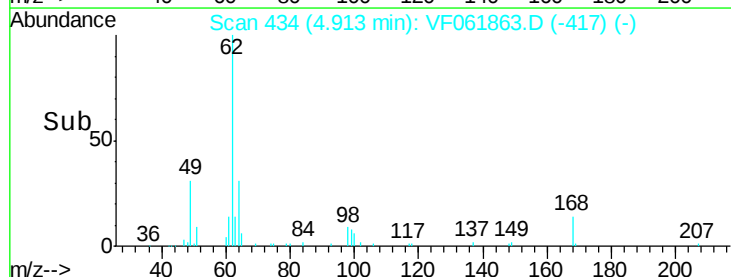
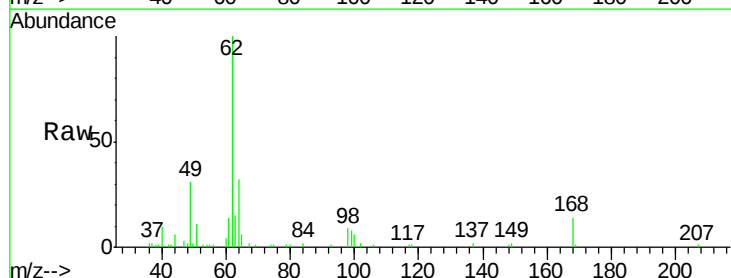
Manual Integrations
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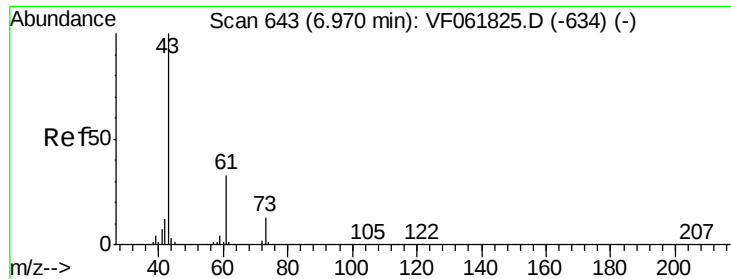
MMDadoda
3/11/2019 10:12:10 AM



#42
1,2-Dichloroethane
Concen: 20.245 ug/l
RT: 4.91 min Scan# 434
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	62	Resp	59934
Ion Ratio	Lower	Upper	
62	100		
98	8.6	0.0	21.0





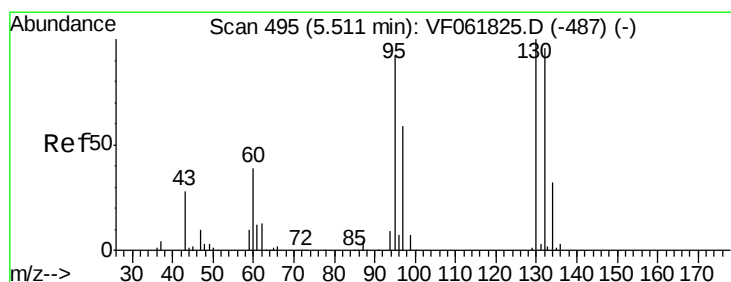
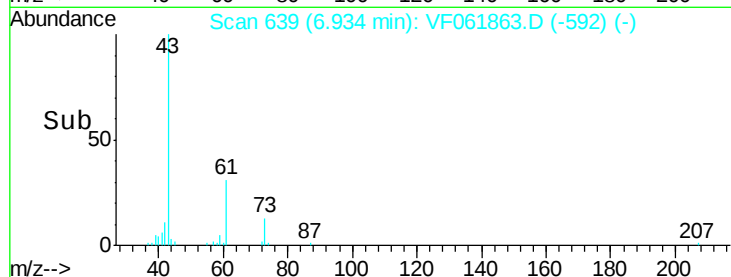
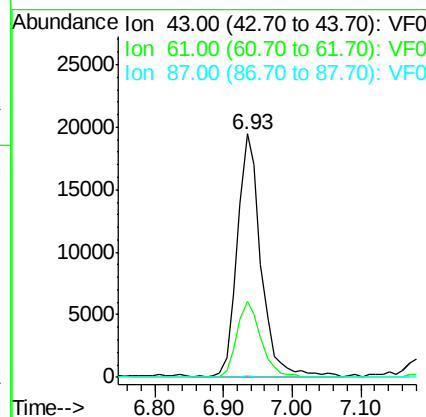
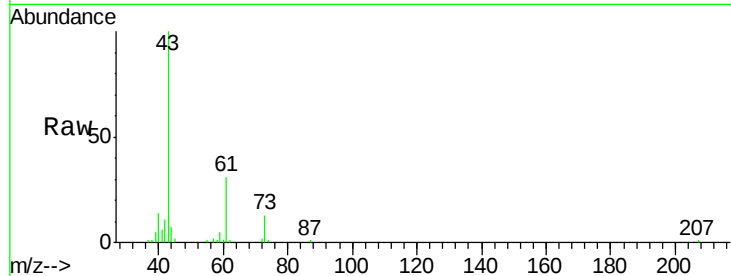
#43
Isopropyl Acetate
Concen: 19.870 ug/l
RT: 6.93 min Scan# 639
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.1	26.1	39.1
87	0.7	0.0	0.0

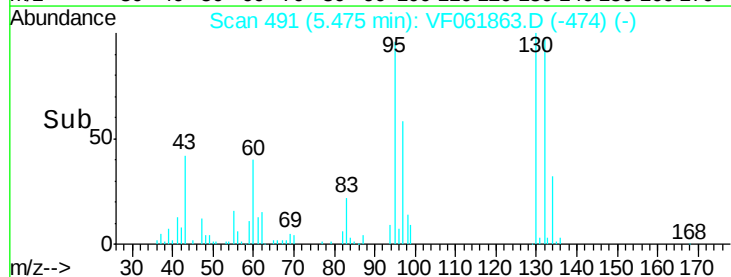
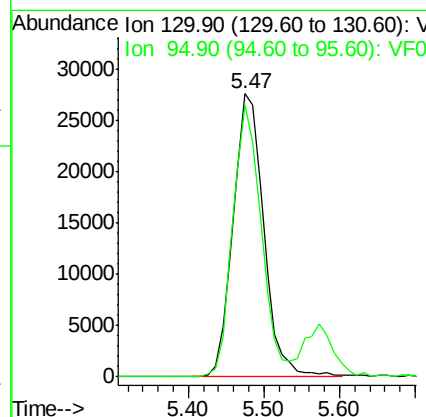
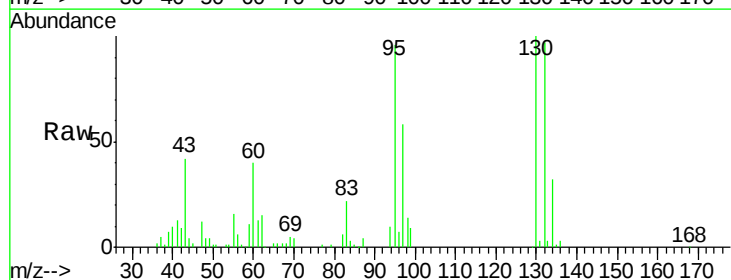
Manual Integrations
APPROVED

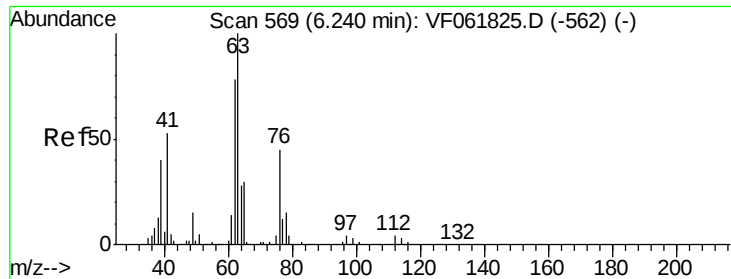
MMDadoda
3/11/2019 10:12:10 AM



#44
Trichloroethene
Concen: 20.906 ug/l
RT: 5.47 min Scan# 491
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	184.0





#45

1,2-Dichloropropane

Concen: 20.169 ug/l

RT: 6.20 min Scan# 565

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 63 Resp: 56973

Ion Ratio Lower Upper

63 100

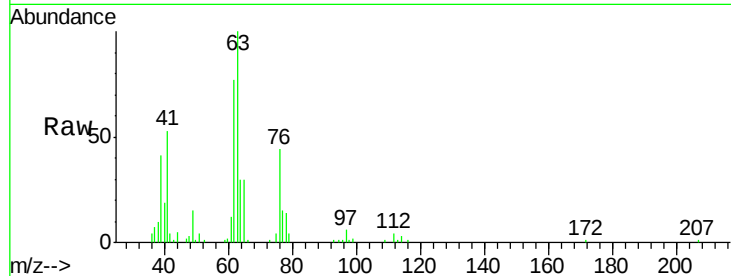
65 29.6 24.0 36.0

Manual Integrations

APPROVED

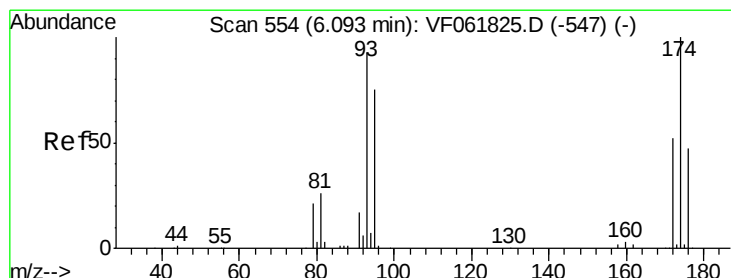
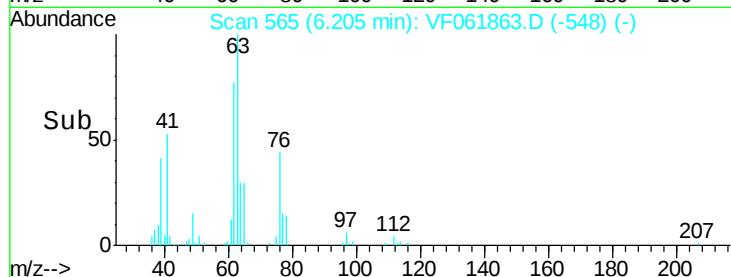
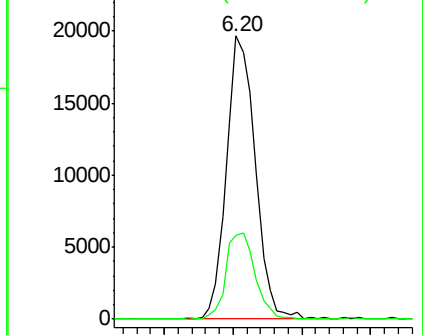
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 18.364 ug/l

RT: 6.06 min Scan# 550

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

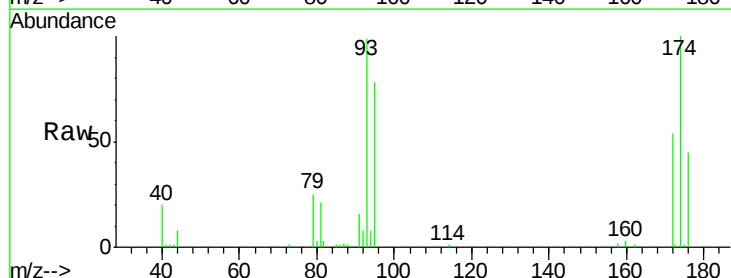
Tgt Ion: 93 Resp: 32648

Ion Ratio Lower Upper

93 100

95 78.8 64.4 96.6

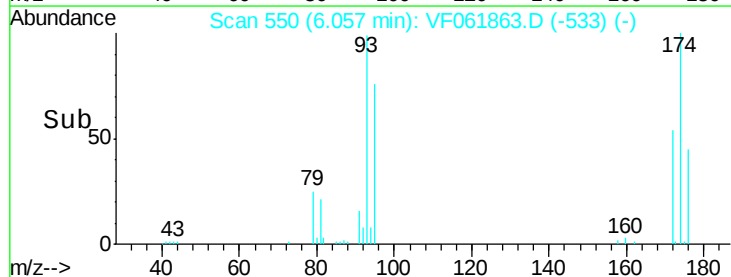
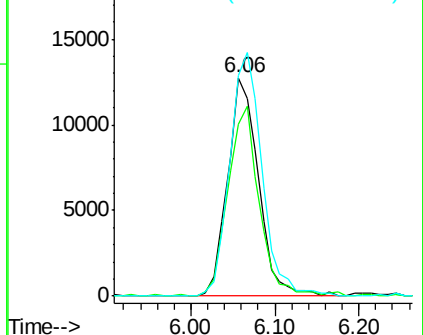
174 101.3 85.8 128.6

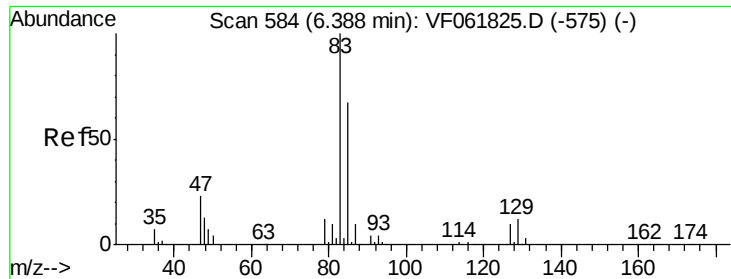


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 20.787 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

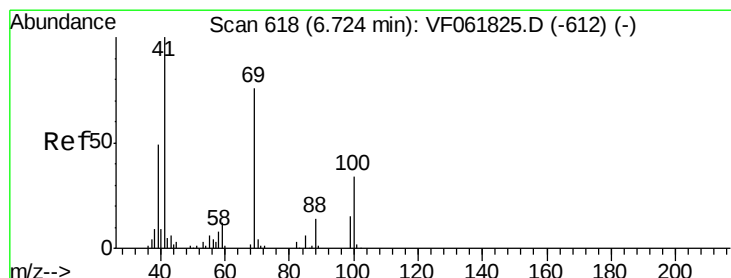
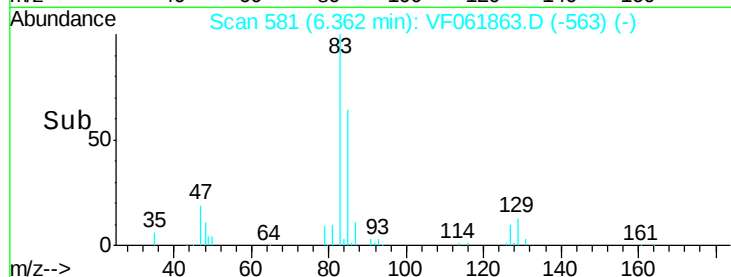
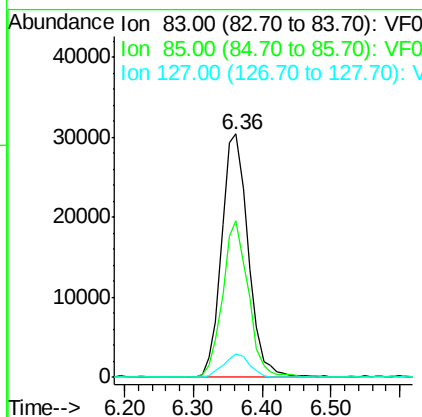
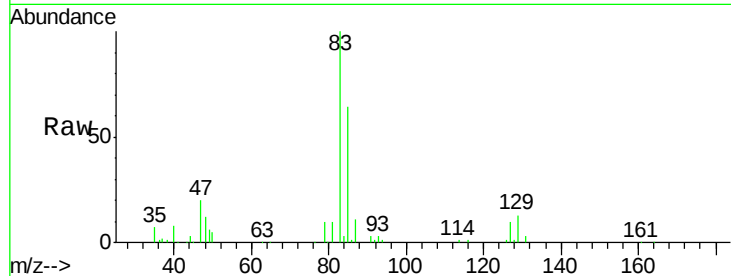
ClientSampleId :

VF0308SBS01

Tot Ion:	83	Resp:	81644
Ion	Ratio	Lower	Upper
83	100		
85	64.1	53.6	80.4
127	9.5	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.747 ug/l

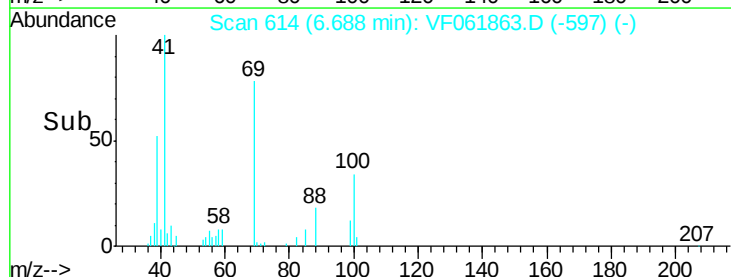
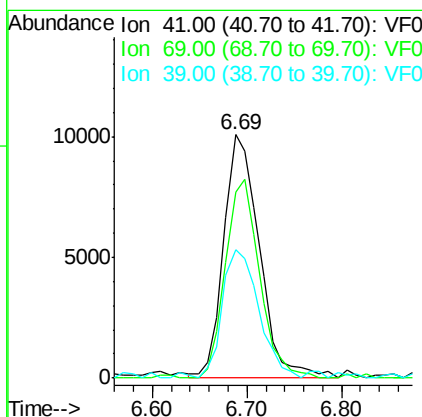
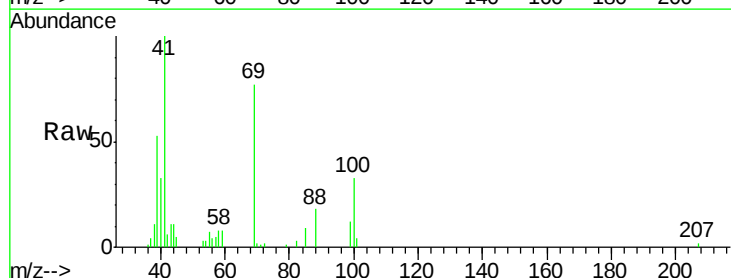
RT: 6.69 min Scan# 614

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion:	41	Resp:	26410
Ion	Ratio	Lower	Upper
41	100		
69	76.5	60.4	90.6
39	52.6	39.7	59.5





#49

1,4-Dioxane

Concen: 318.954 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

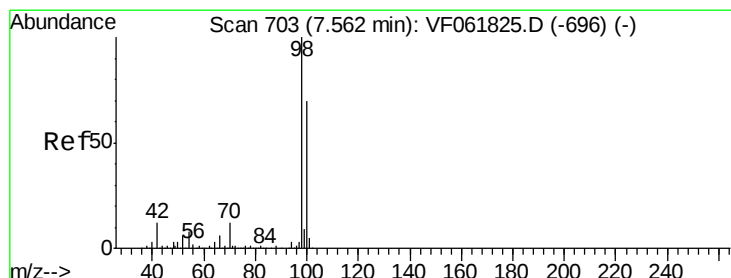
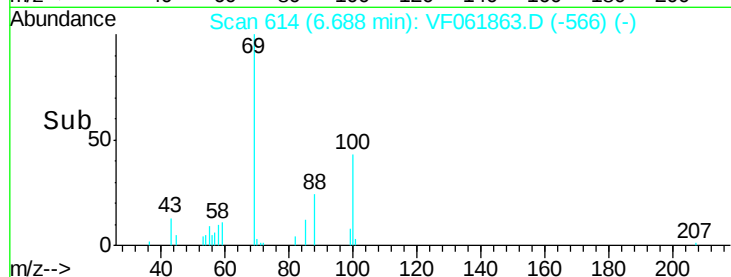
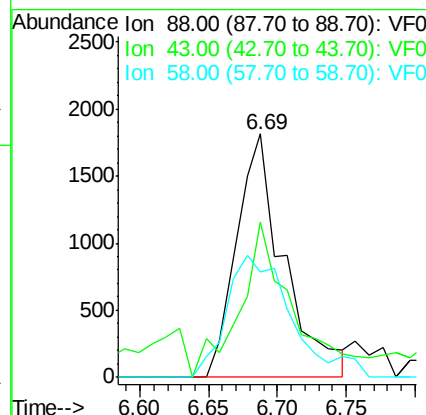
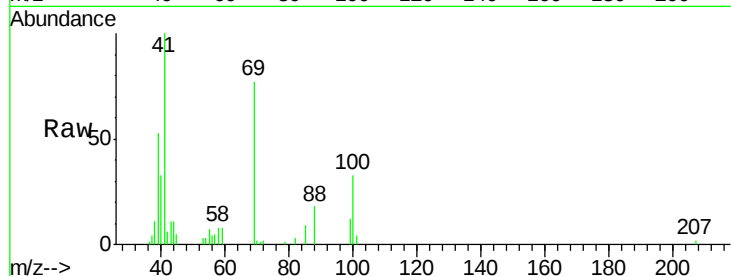
ClientSampleId :

VF0308SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	63.8	28.4	42.6#
58	43.4	50.7	76.1#

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#50

Toluene-d8

Concen: 52.713 ug/l

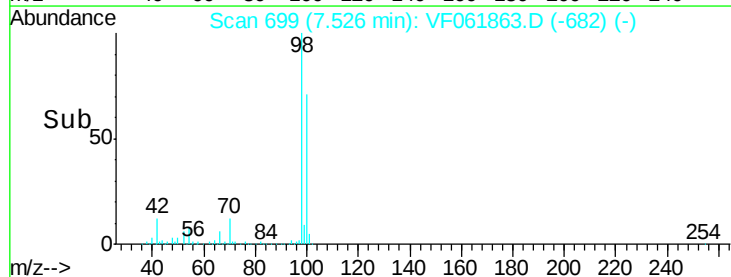
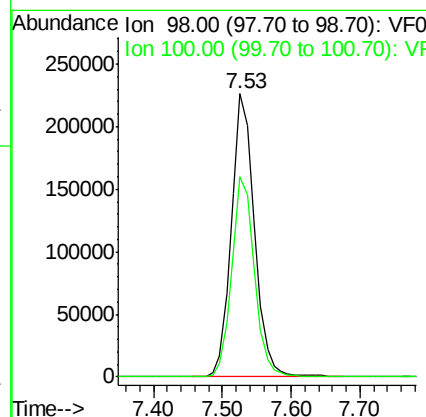
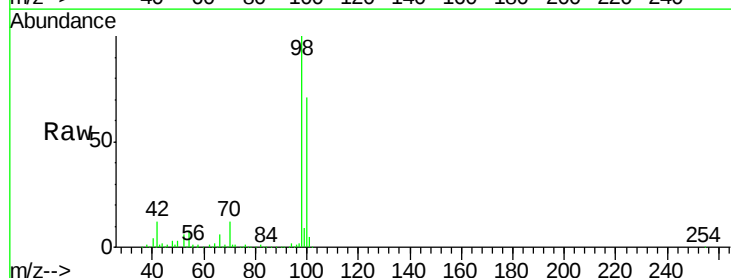
RT: 7.53 min Scan# 699

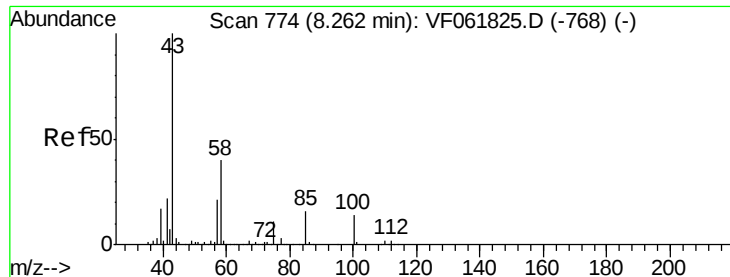
Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.6	56.0	84.0





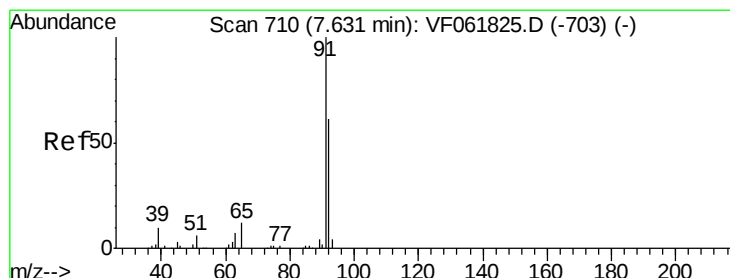
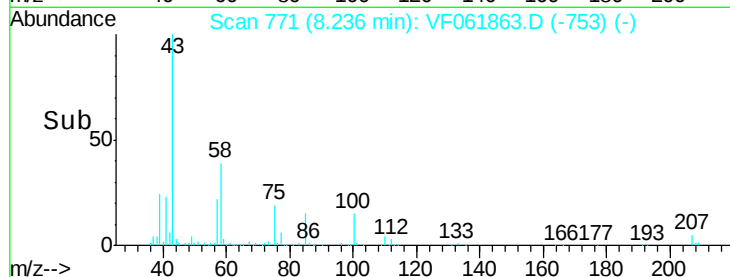
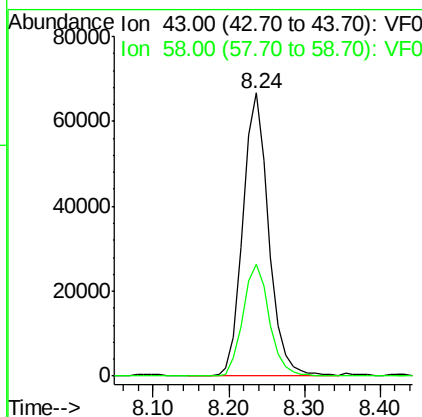
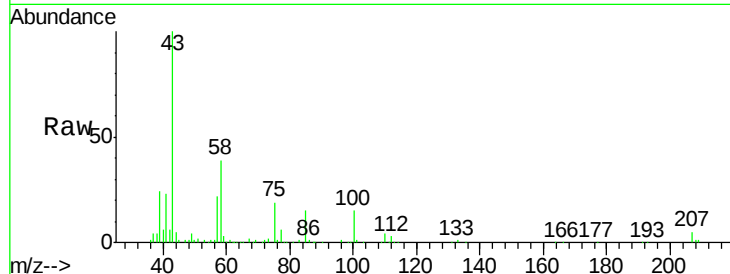
#51
4-Methyl-2-Pentanone
Concen: 96.424 ug/l
RT: 8.24 min Scan# 771
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	43	Resp	156702
Ion Ratio	43	100	
	58	39.4	31.8 47.8

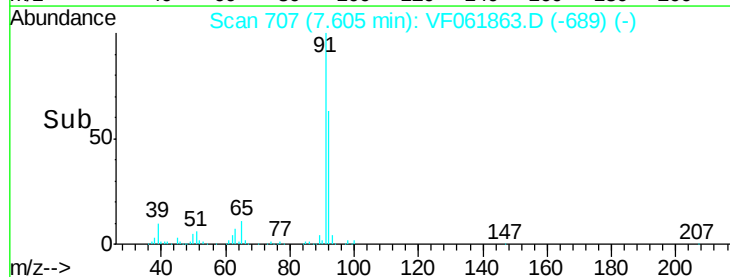
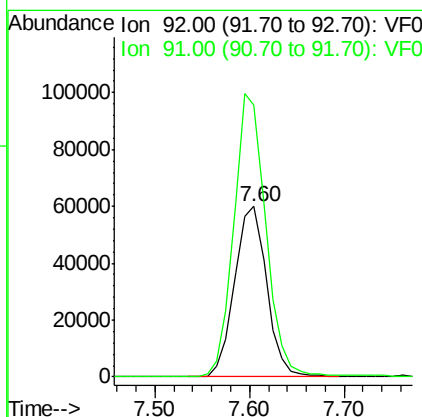
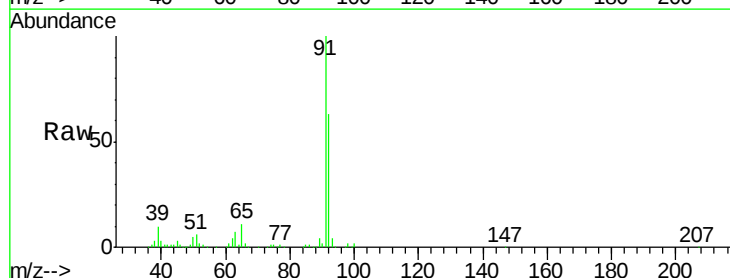
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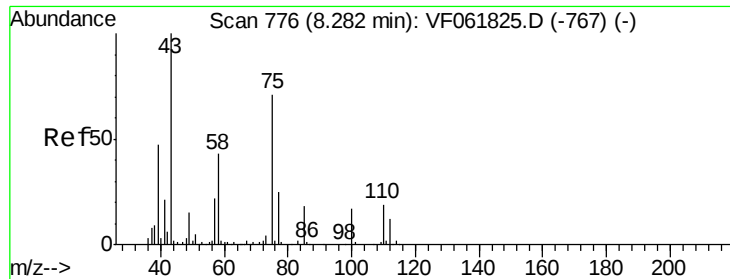
MMDadoda
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#52
Toluene
Concen: 20.187 ug/l
RT: 7.60 min Scan# 707
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	92	Resp	141864
Ion Ratio	92	100	
	91	159.6	132.0 198.0





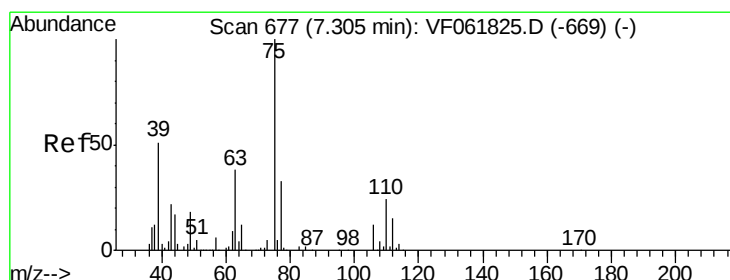
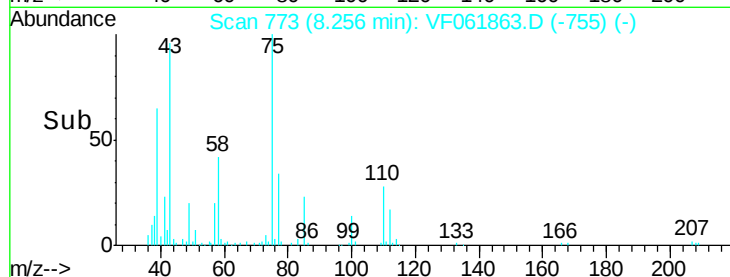
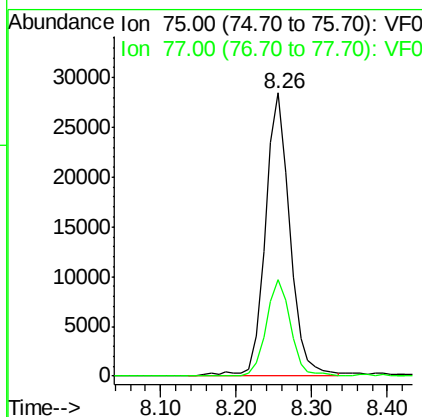
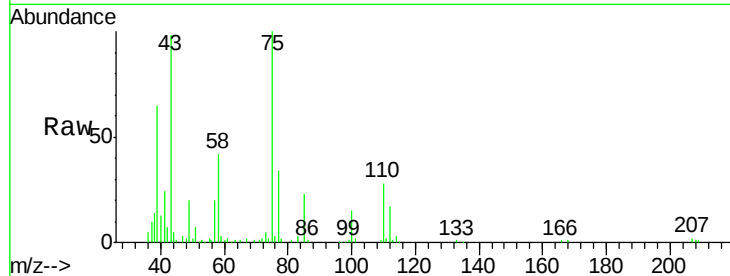
#53
t-1,3-Dichloropropene
Concen: 19.859 ug/l
RT: 8.26 min Scan# 773
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.1	28.0	42.0

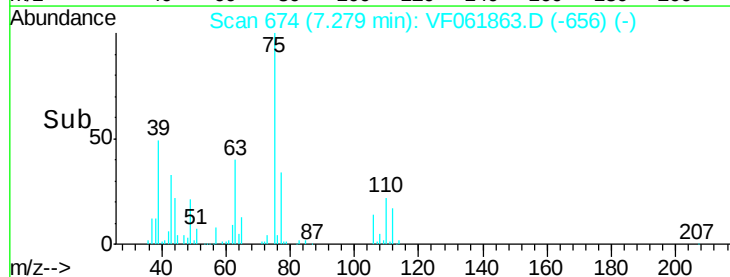
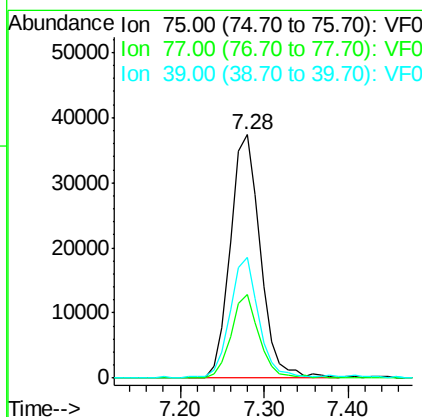
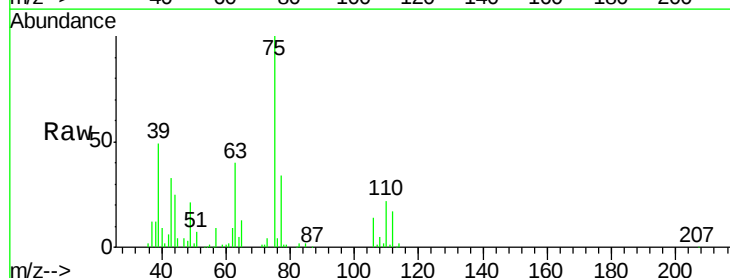
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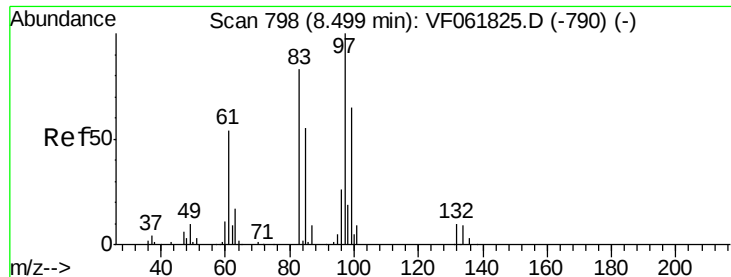
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#54
cis-1,3-Dichloropropene
Concen: 20.770 ug/l
RT: 7.28 min Scan# 674
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.2	26.3	39.5
39	49.5	40.8	61.2





#55

1,1,2-Trichloroethane

Concen: 19.870 ug/l

RT: 8.46 min Scan# 794

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

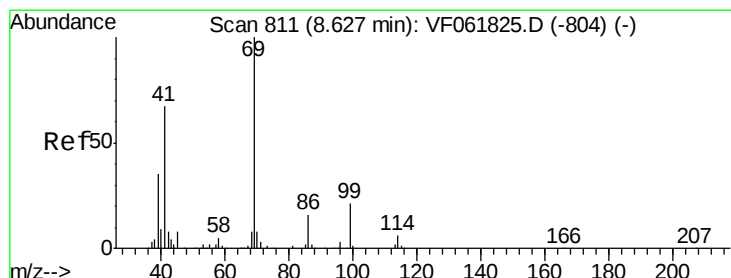
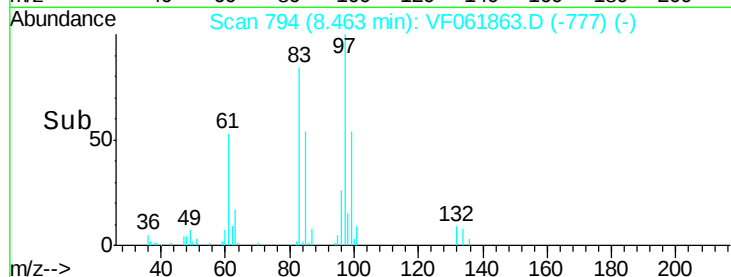
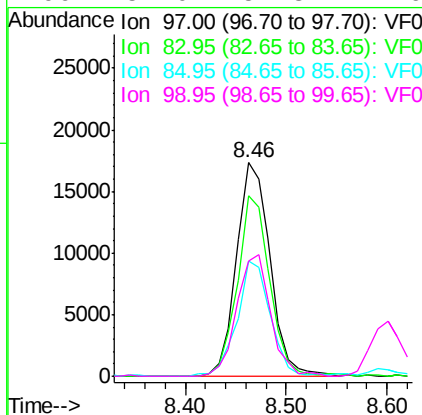
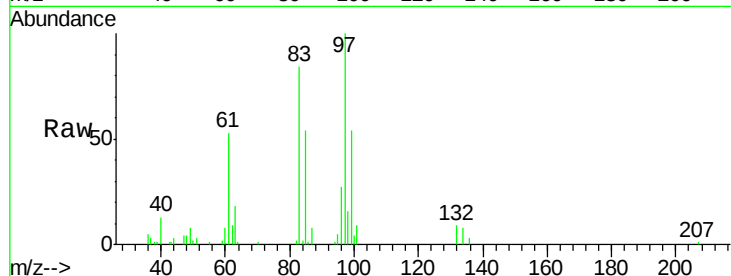
ClientSampleId :

VF0308SBS01

Tot Ion:	97	Resp:	40234
Ion	Ratio	Lower	Upper
97	100		
83	84.4	66.5	99.7
85	53.7	44.2	66.2
99	54.0	51.8	77.6

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#56

Ethyl methacrylate

Concen: 20.657 ug/l

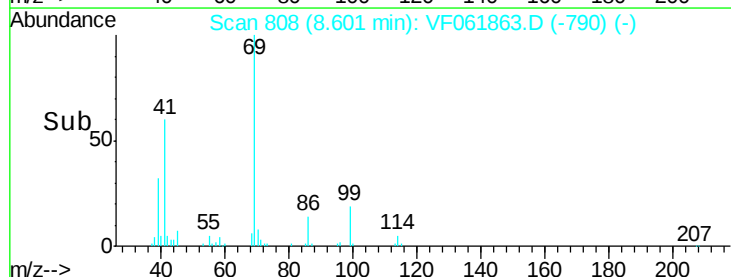
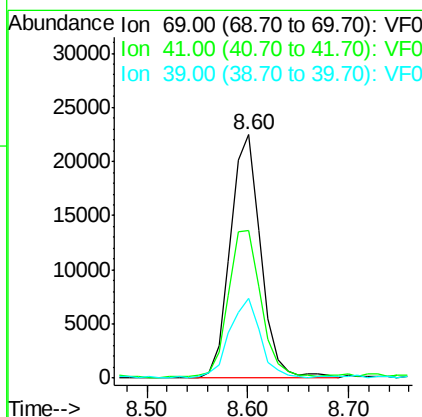
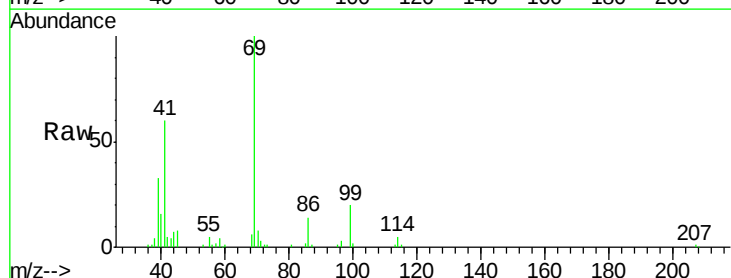
RT: 8.60 min Scan# 808

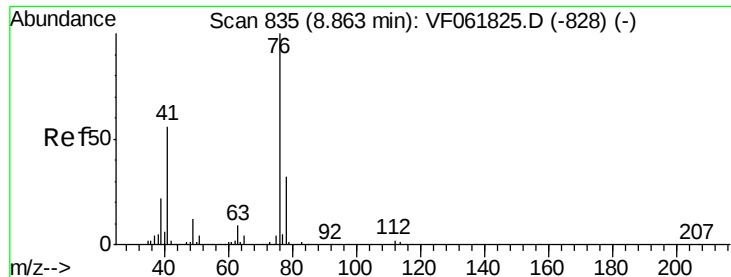
Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion:	69	Resp:	47139
Ion	Ratio	Lower	Upper
69	100		
41	60.4	53.9	80.9
39	32.8	28.3	42.5





#57

1,3-Dichloropropane

Concen: 20.535 ug/l

RT: 8.83 min Scan# 831

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 76 Resp: 67998

Ion Ratio Lower Upper

76 100

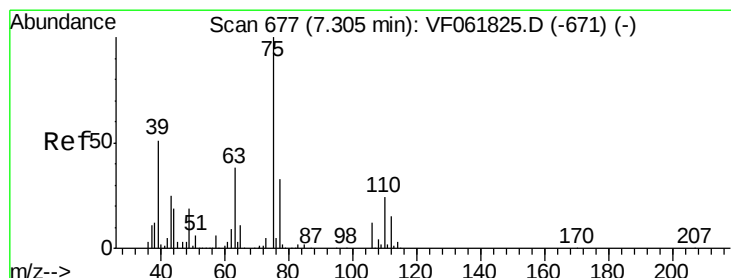
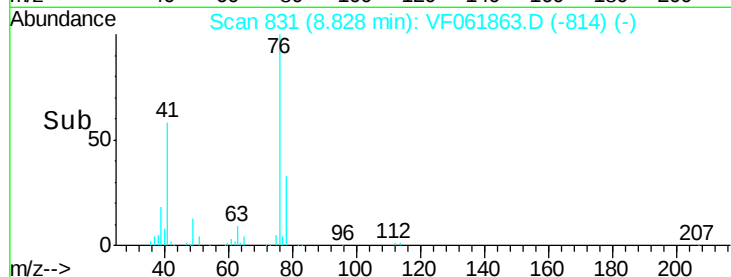
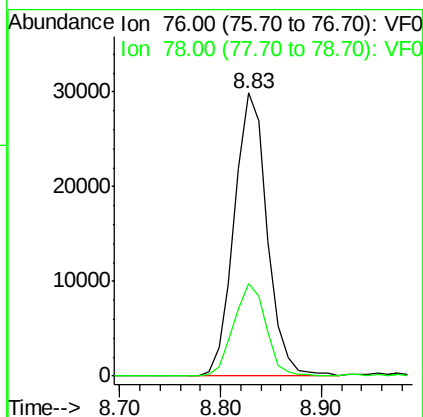
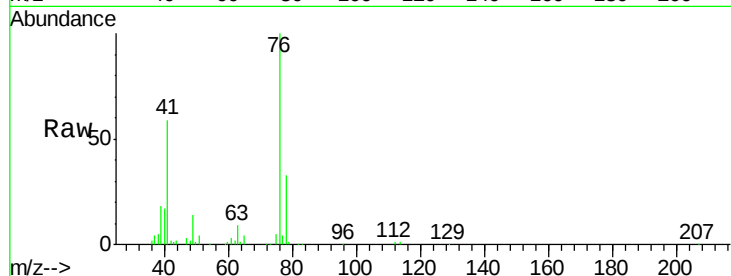
78 32.5 25.4 38.2

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 113.587 ug/l

RT: 7.27 min Scan# 673

Delta R.T. -0.04 min

Lab File: VF061863.D

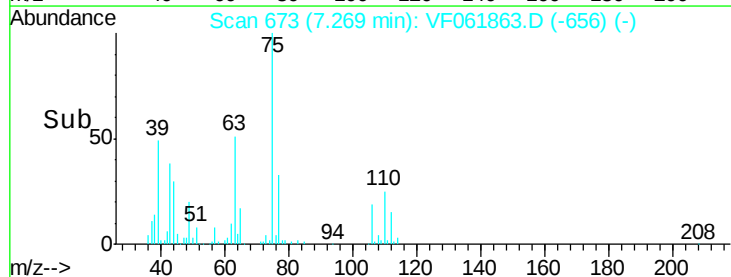
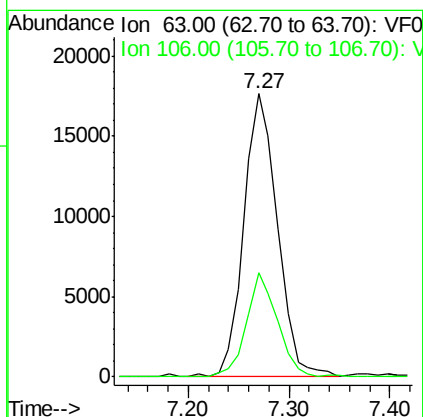
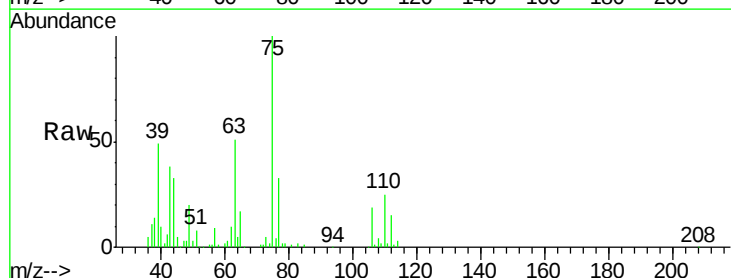
Acq: 8 Mar 2019 15:26

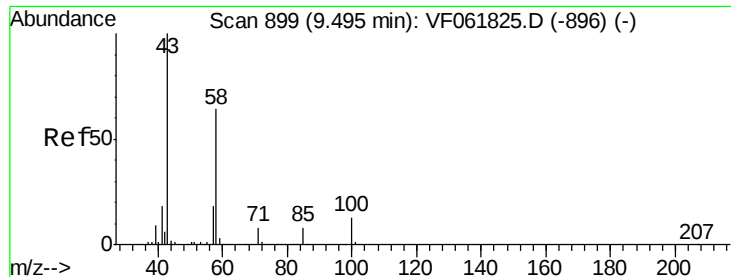
Tgt Ion: 63 Resp: 41003

Ion Ratio Lower Upper

63 100

106 36.8 24.3 36.5#





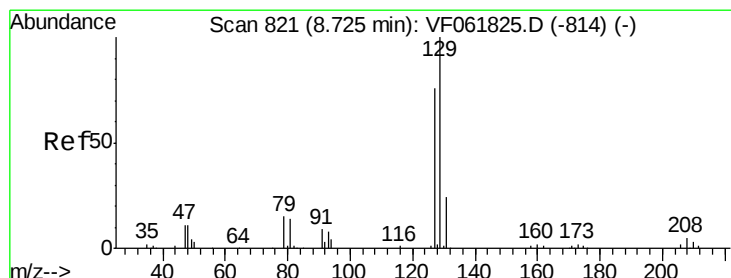
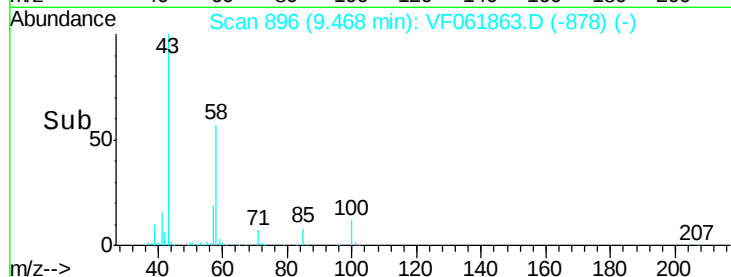
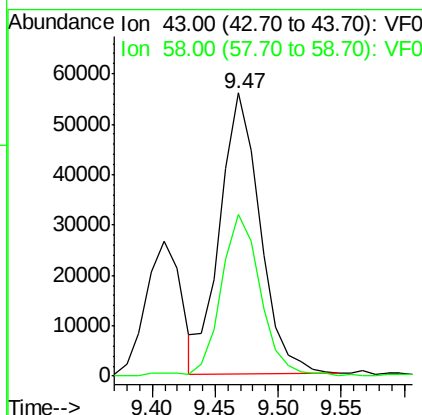
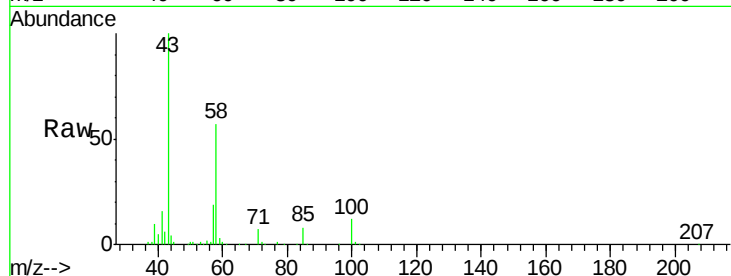
#59
2-Hexanone
Concen: 105.084 ug/l
RT: 9.47 min Scan# 896
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.1	28.8	86.4

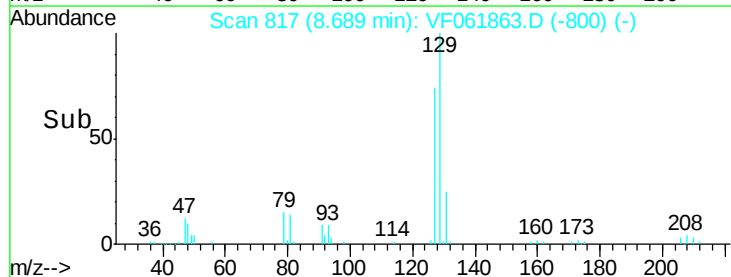
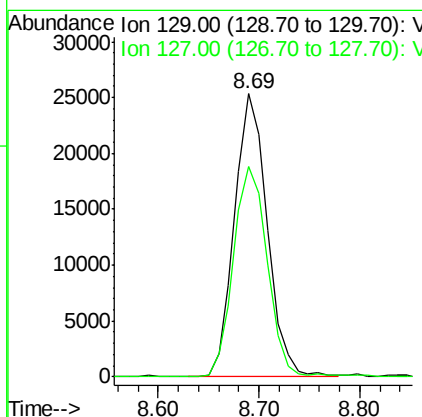
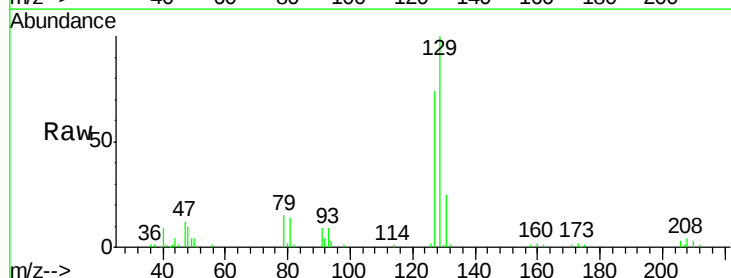
Manual Integrations
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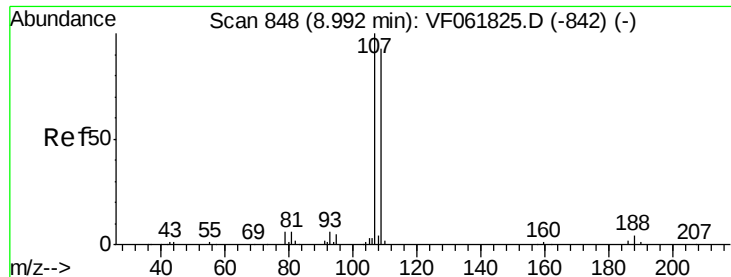
MMDadoda
3/11/2019 10:12:10 AM



#60
Dibromochloromethane
Concen: 19.896 ug/l
RT: 8.69 min Scan# 817
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.2	38.2	114.6





#61

1,2-Dibromoethane

Concen: 19.868 ug/l

RT: 8.97 min Scan# 845

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion:107 Resp: 44239

Ion Ratio Lower Upper

107 100

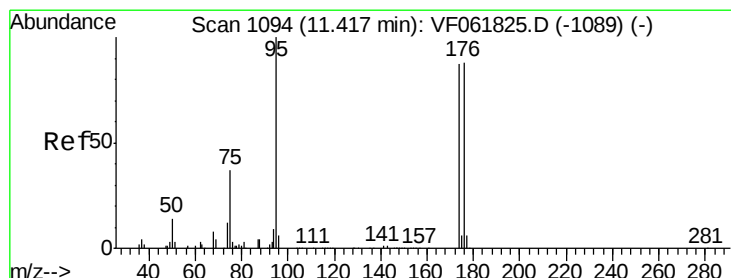
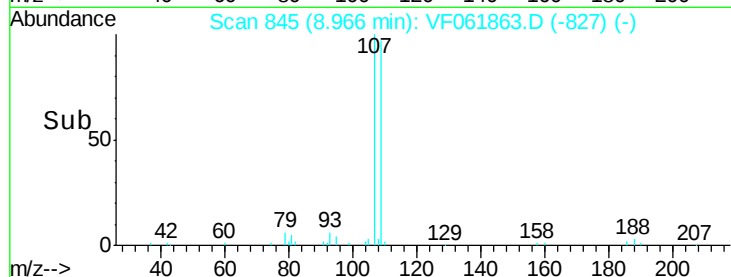
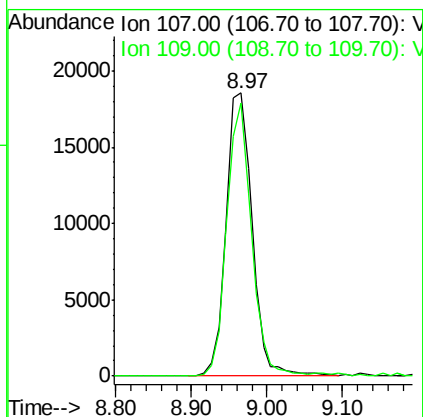
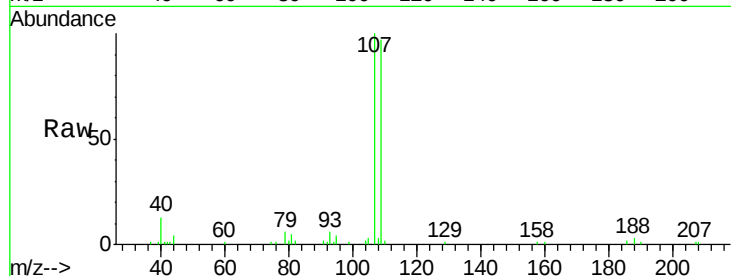
109 96.5 74.6 112.0

Manual Integrations

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MMDadoda

3/11/2019 10:12:10 AM



#62

4-Bromofluorobenzene

Concen: 51.593 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

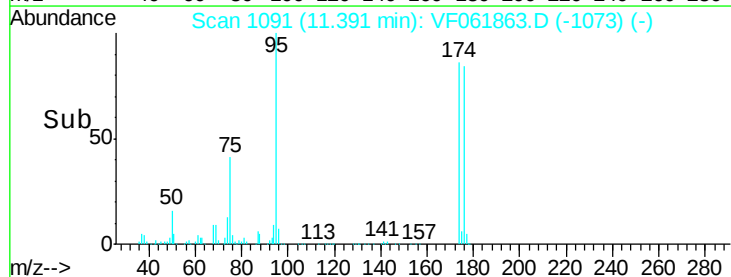
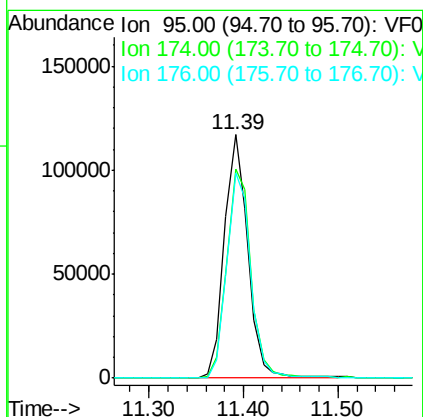
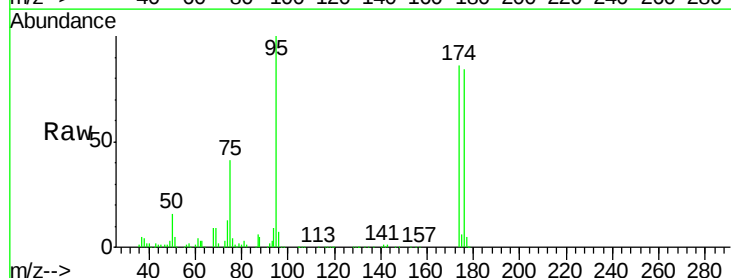
Tgt Ion: 95 Resp: 201694

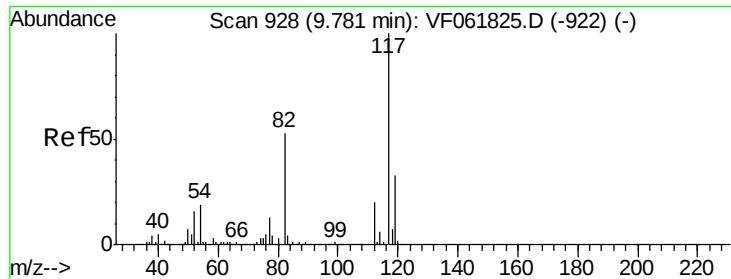
Ion Ratio Lower Upper

95 100

174 85.9 0.0 174.0

176 84.2 0.0 175.2





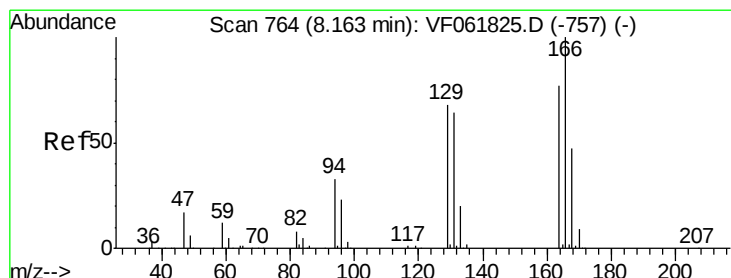
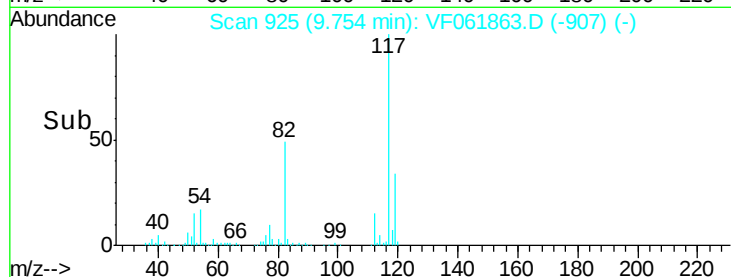
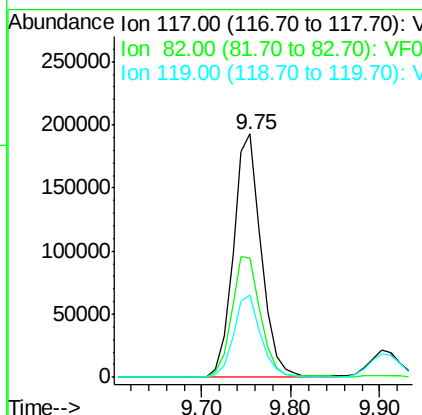
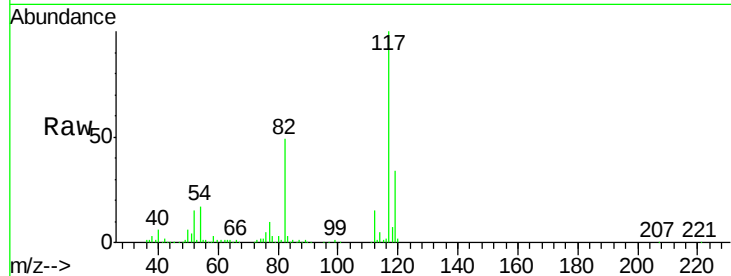
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	422170		
82	49.2		42.6	63.8
119	33.7		26.0	39.0

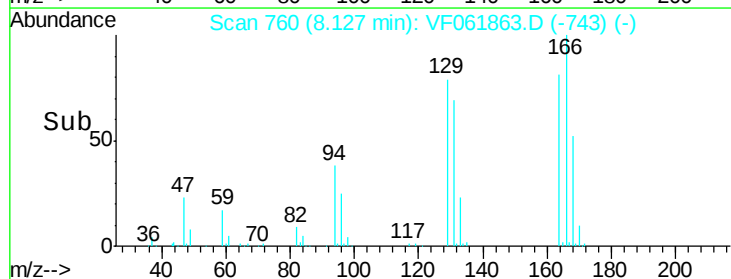
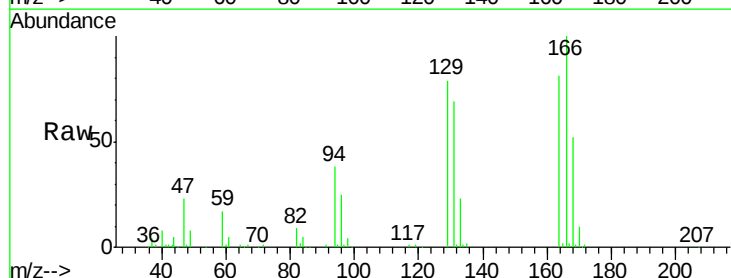
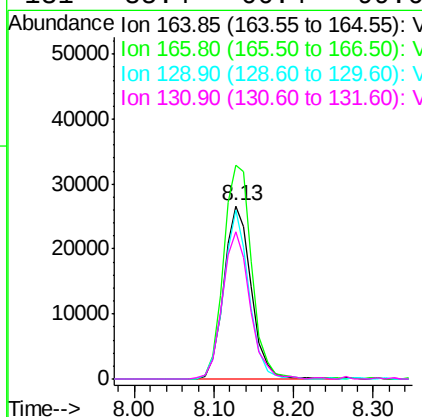
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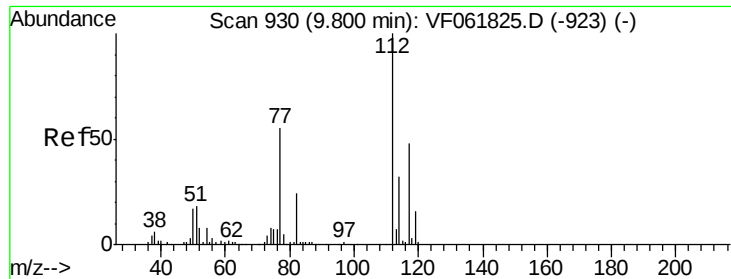
MMDadoda
3/11/2019 10:12:10 AM



#64
Tetrachloroethene
Concen: 19.803 ug/l
RT: 8.13 min Scan# 760
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	64239		
166	123.4		103.4	155.0
129	97.5		69.9	104.9
131	85.4		66.4	99.6





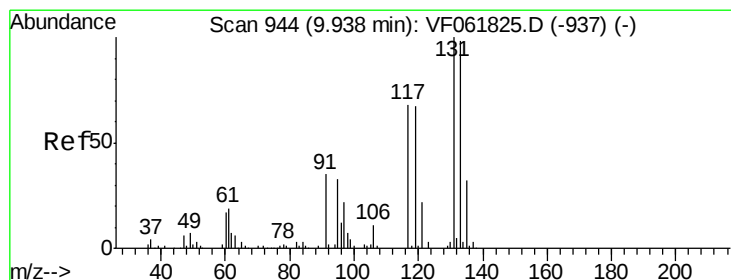
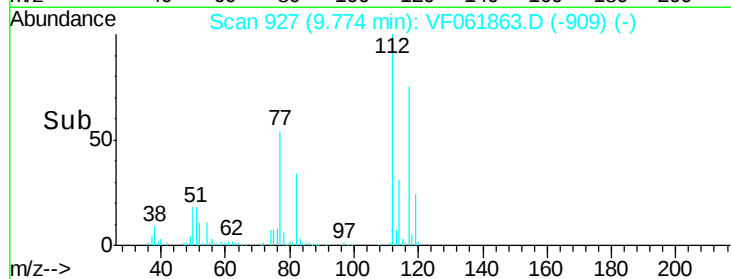
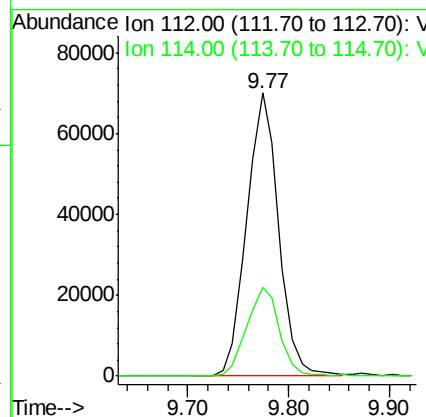
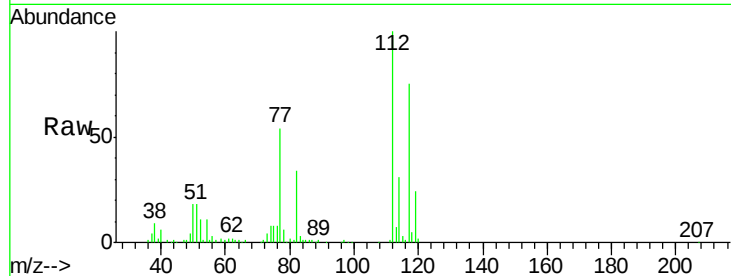
#65
Chlorobenzene
Concen: 19.077 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	154732		
114	31.2	25.5	38.3	

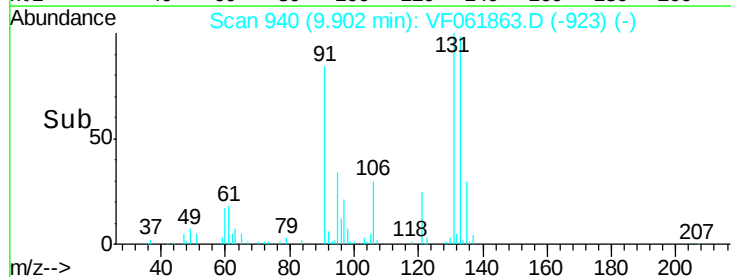
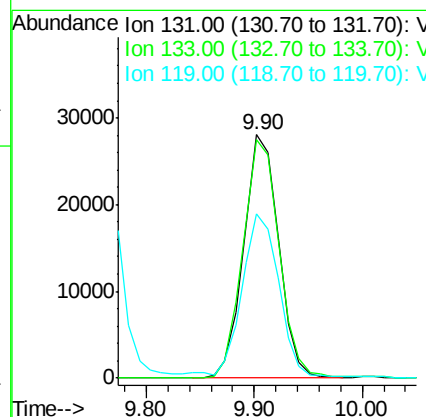
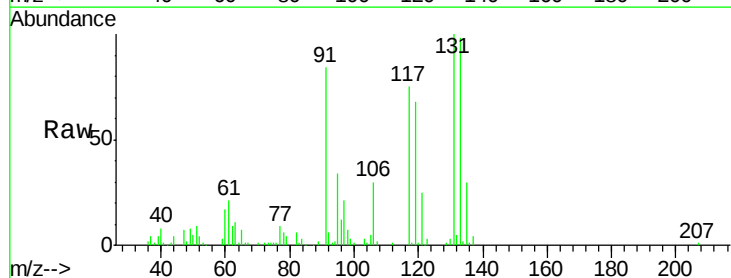
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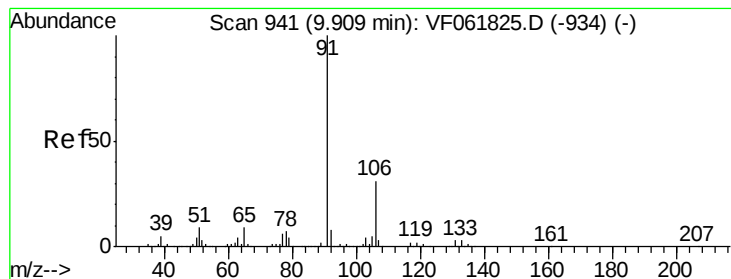
MMDadoda
3/11/2019 10:12:10 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.123 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	63236		
133	98.0	48.9	146.7	
119	67.6	33.6	100.8	





#67

Ethyl Benzene

Concen: 21.560 ug/l

RT: 9.87 min Scan# 937

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 91 Resp: 289841

Ion Ratio Lower Upper

91 100

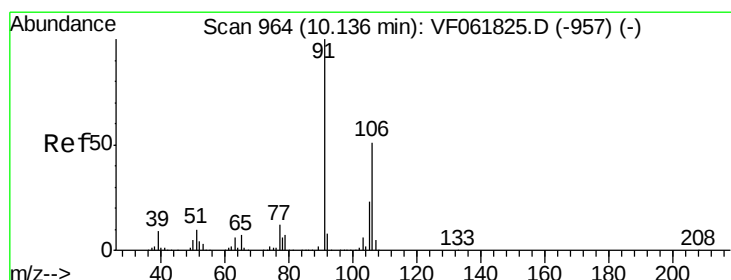
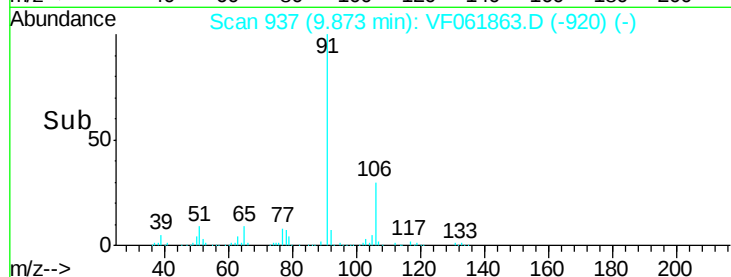
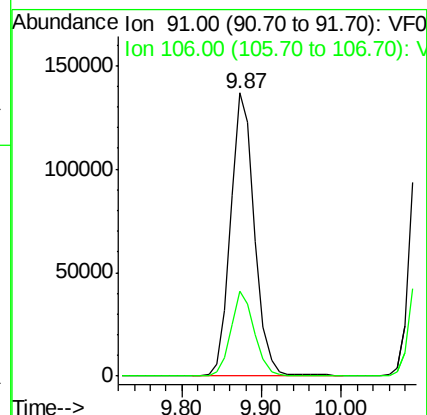
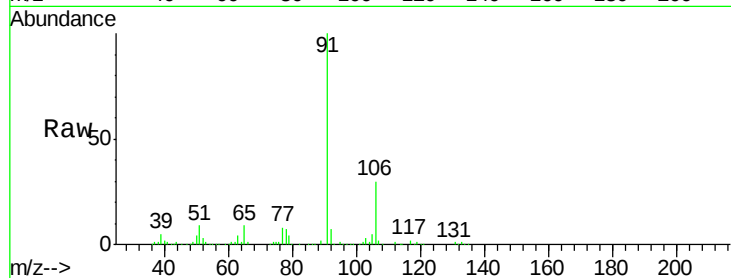
106 29.8 25.0 37.4

Manual Integrations

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#68

m/p-Xylenes

Concen: 42.708 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.03 min

Lab File: VF061863.D

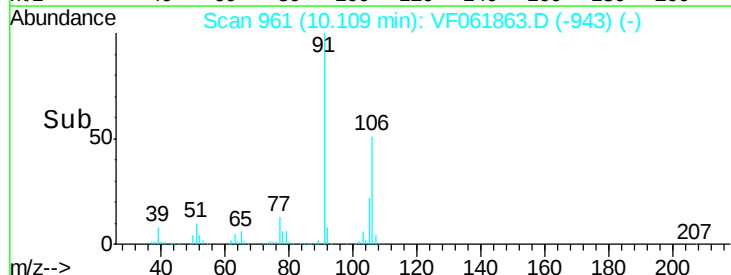
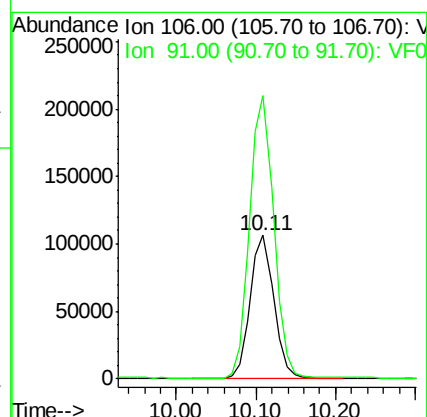
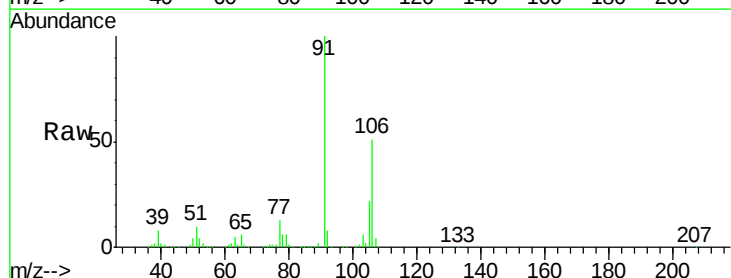
Acq: 8 Mar 2019 15:26

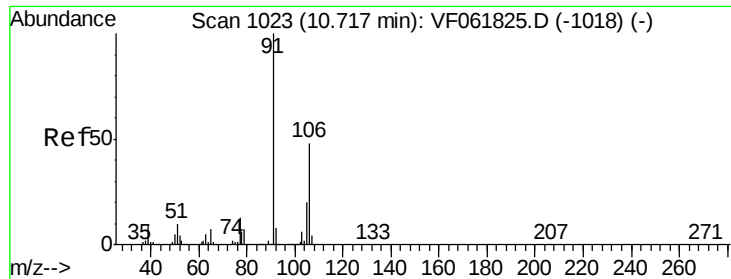
Tgt Ion: 106 Resp: 219943

Ion Ratio Lower Upper

106 100

91 197.4 157.5 236.3





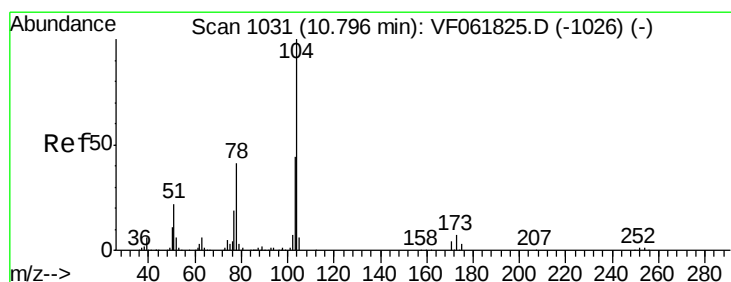
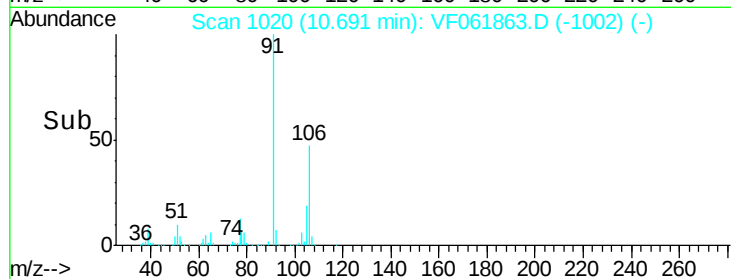
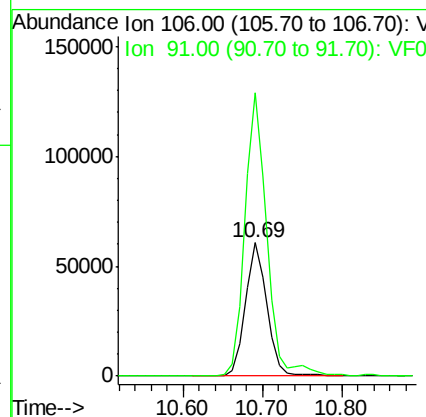
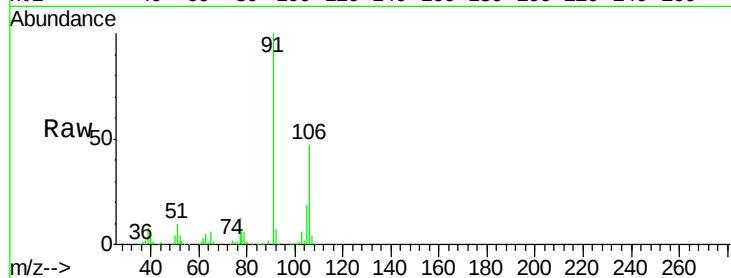
#69
o-Xylene
Concen: 20.435 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.6	103.5	310.3

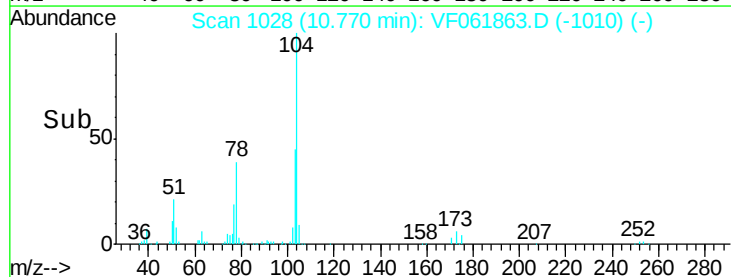
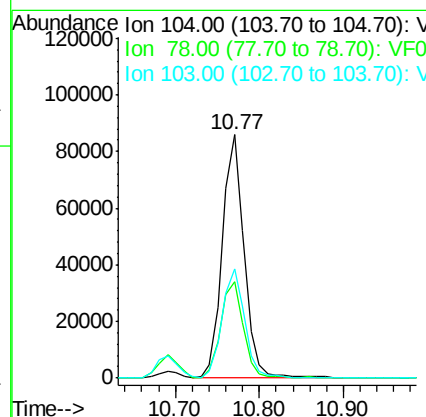
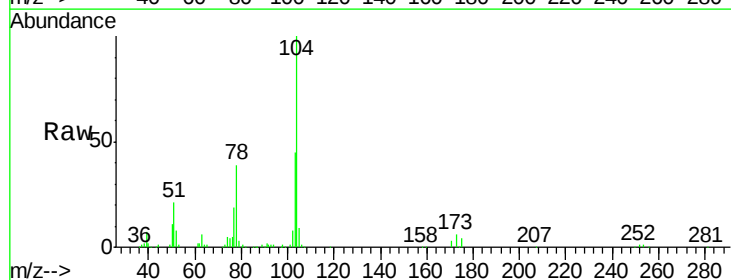
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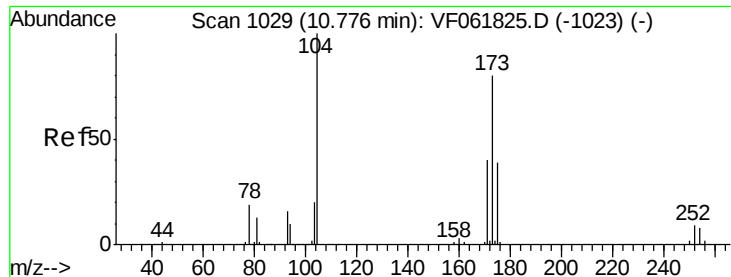
MMDadoda
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#70
Styrene
Concen: 19.830 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
104	100		
78	39.5	33.3	49.9
103	44.7	35.4	53.0





#71

Bromoform

Concen: 19.550 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion:173 Resp: 32469

Ion Ratio Lower Upper

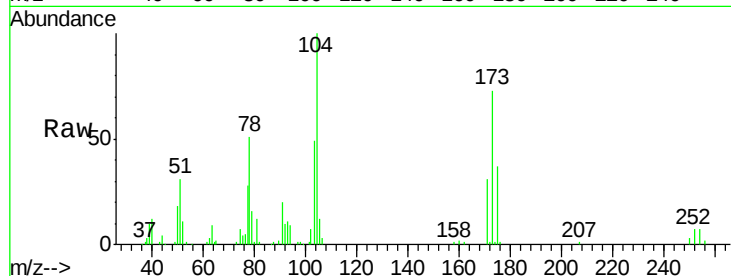
173 100

175 52.9 24.5 73.5

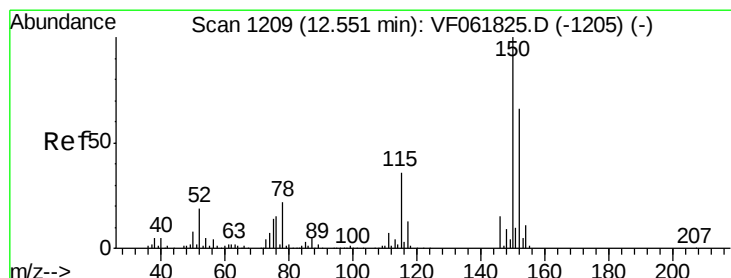
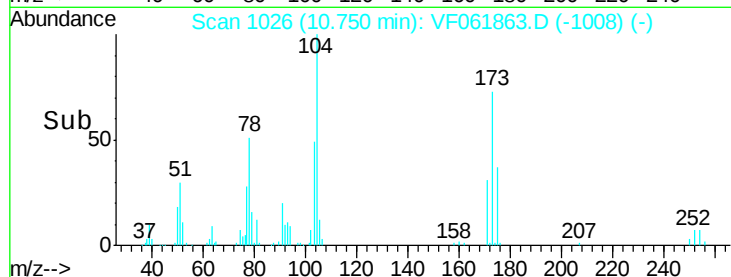
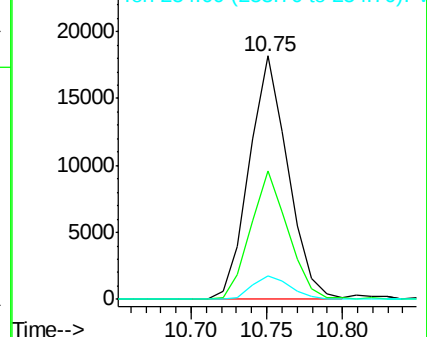
254 9.6 8.0 12.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

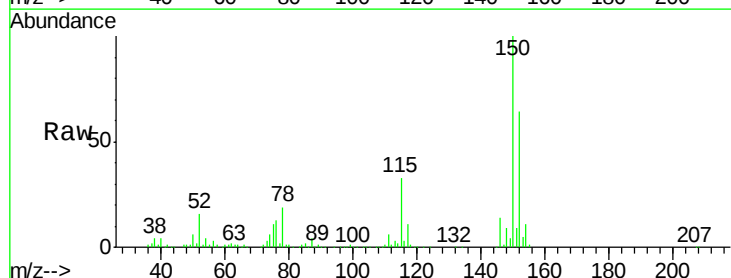
Tgt Ion:152 Resp: 237025

Ion Ratio Lower Upper

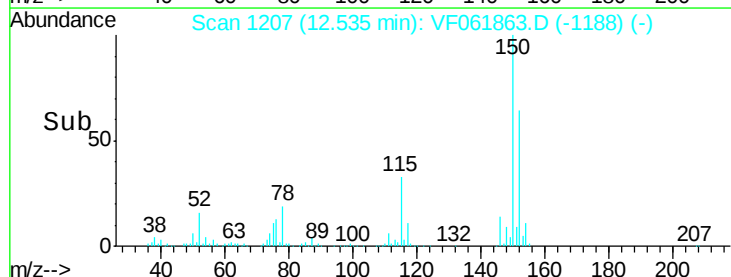
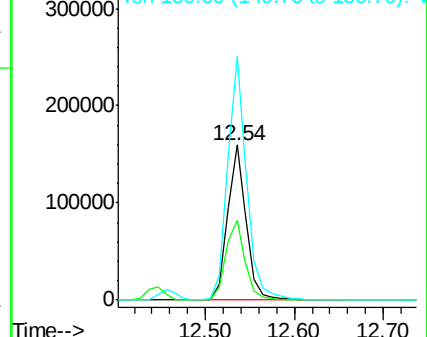
152 100

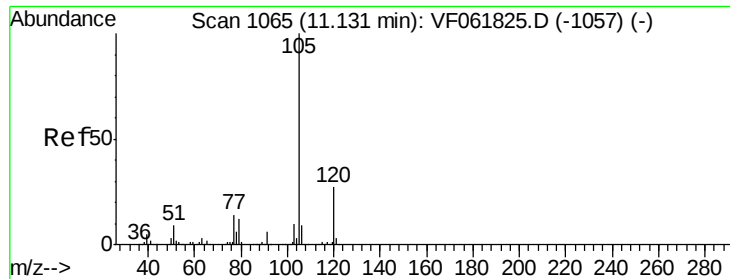
115 51.4 27.7 83.1

150 156.8 0.0 304.2



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





#73

Isopropylbenzene

Concen: 19.927 ug/l

RT: 11.11 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion:105 Resp: 325164

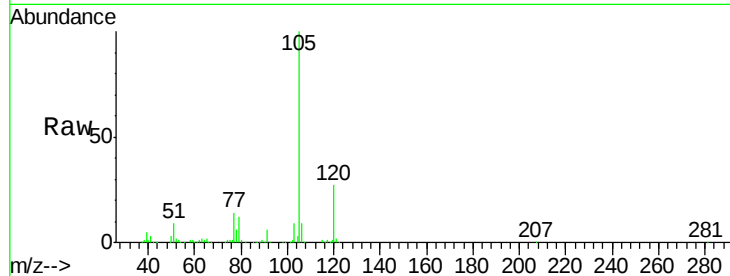
Ion Ratio Lower Upper

105 100

120 27.2 13.7 41.0

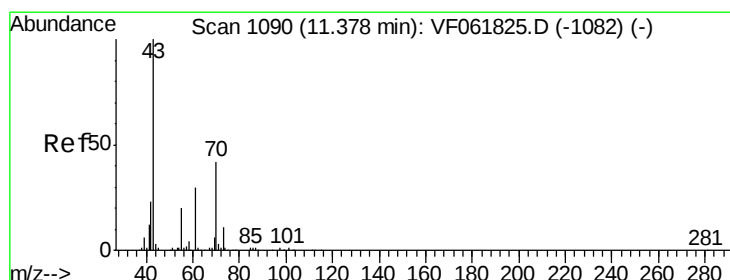
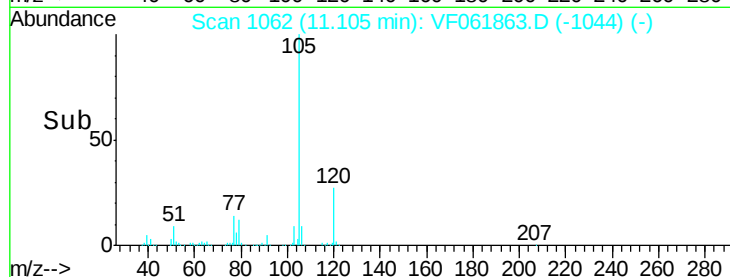
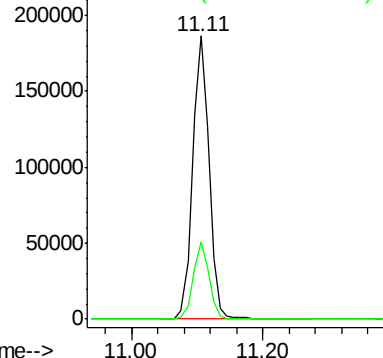
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.624 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion: 43 Resp: 69963

Ion Ratio Lower Upper

43 100

70 39.0 33.4 50.0

55 21.2 16.3 24.5

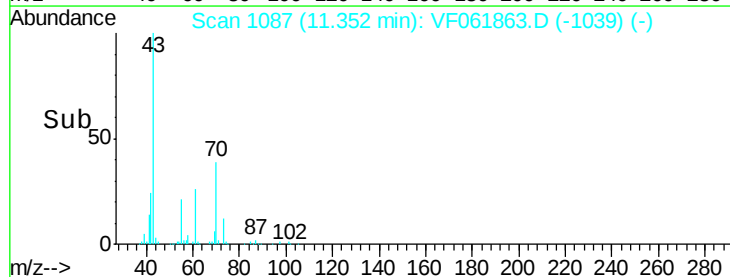
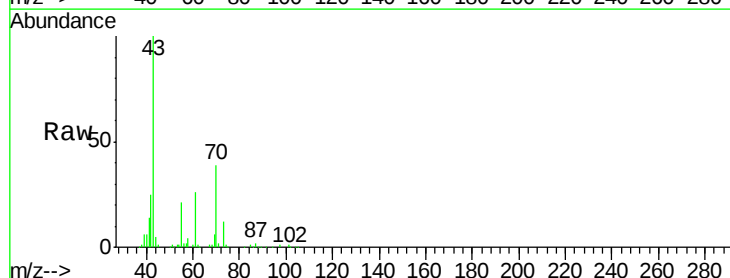
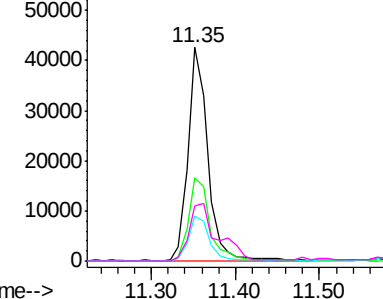
61 25.6 24.0 36.0

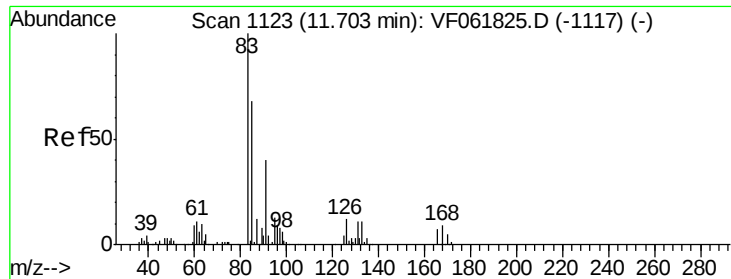
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 18.424 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

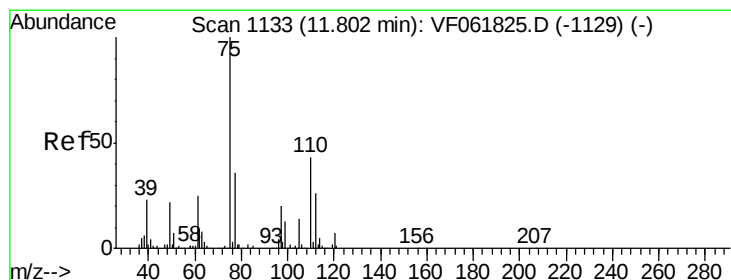
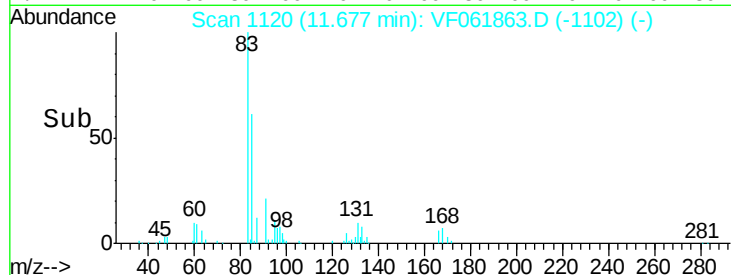
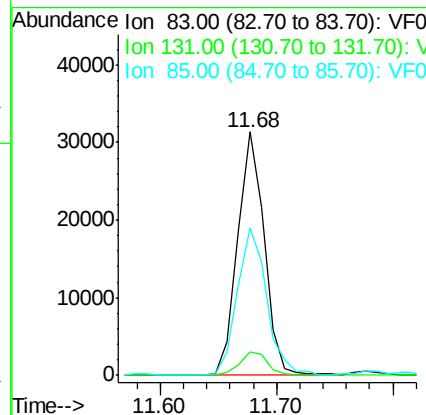
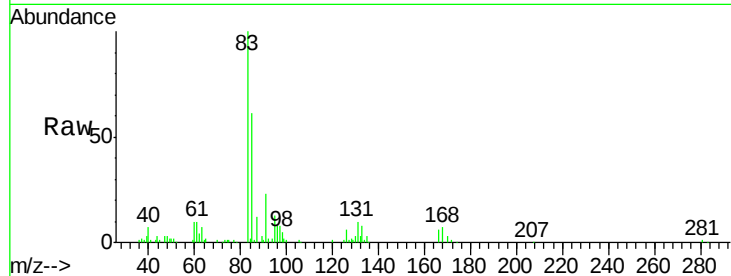
ClientSampleId :

VF0308SBS01

Tot Ion	83	Resp	49968
Ion	Ratio	Lower	Upper
83	100		
131	9.5	5.5	16.7
85	60.6	34.2	102.6

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#76

1,2,3-Trichloropropane

Concen: 18.531 ug/l

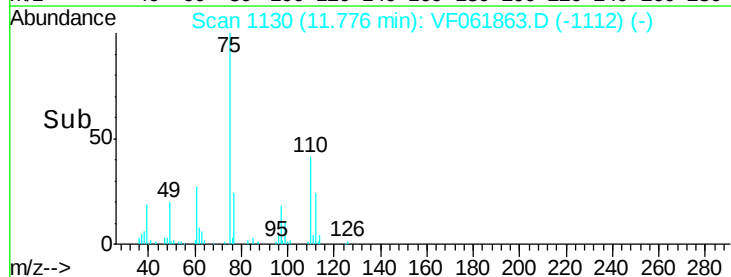
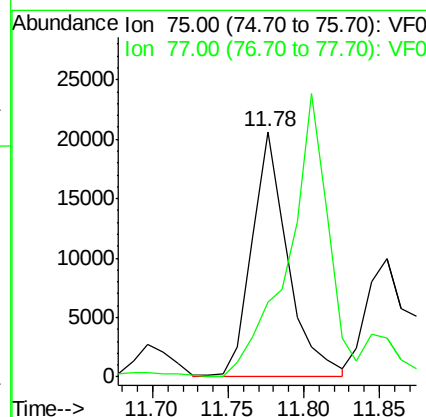
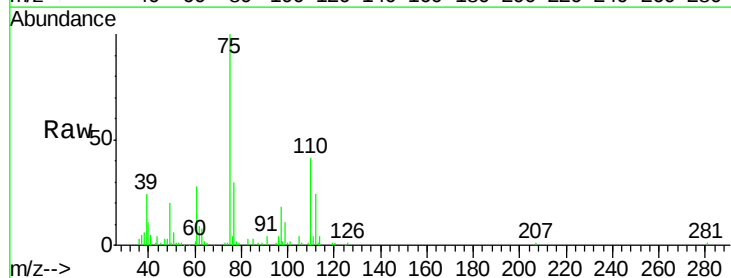
RT: 11.78 min Scan# 1130

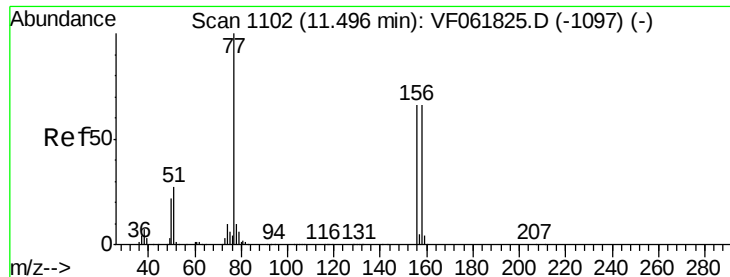
Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion	75	Resp	34301
Ion	Ratio	Lower	Upper
75	100		
77	30.4	18.1	54.4





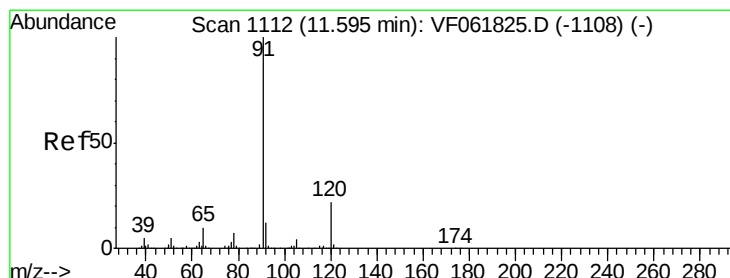
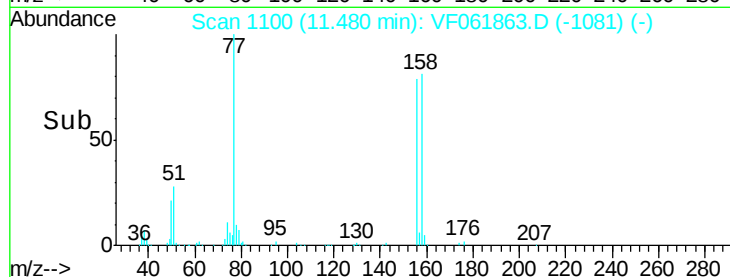
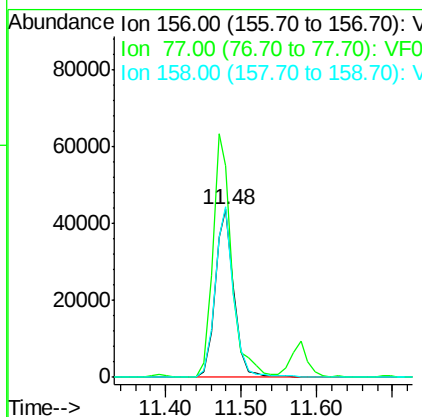
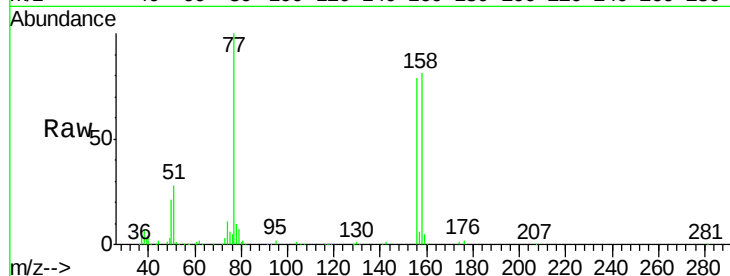
#77
Bromobenzene
Concen: 19.334 ug/l
RT: 11.48 min Scan# 1100
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	126.1	75.7	227.1
158	101.6	50.0	150.1

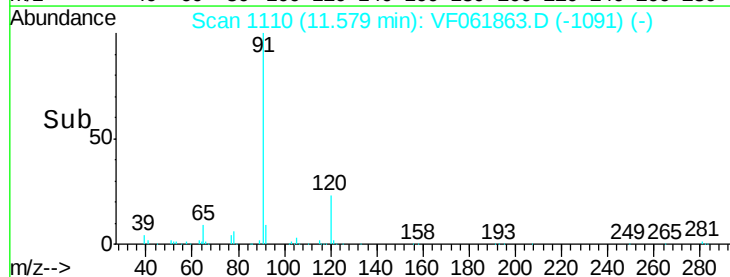
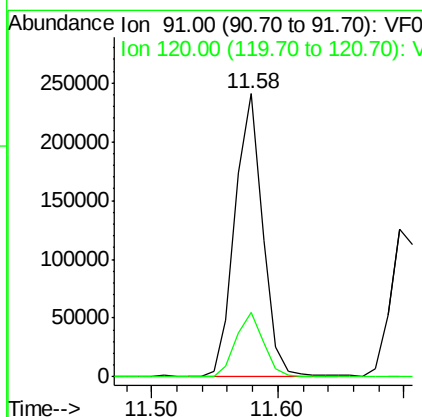
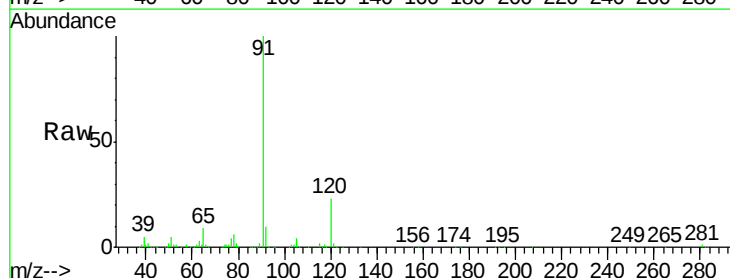
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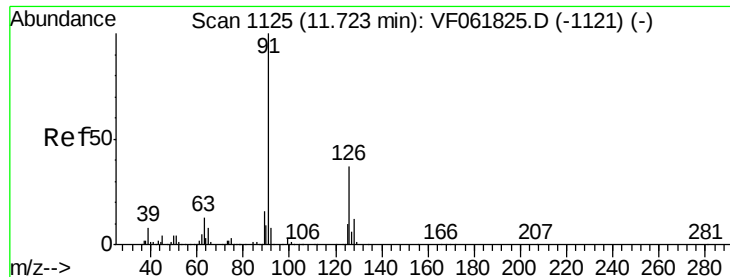
MMDadoda
3/11/2019 10:12:10 AM



#78
n-propylbenzene
Concen: 19.896 ug/l
RT: 11.58 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.6	11.1	33.1





#79

2-Chlorotoluene

Concen: 19.603 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 91 Resp: 206525

Ion Ratio Lower Upper

91 100

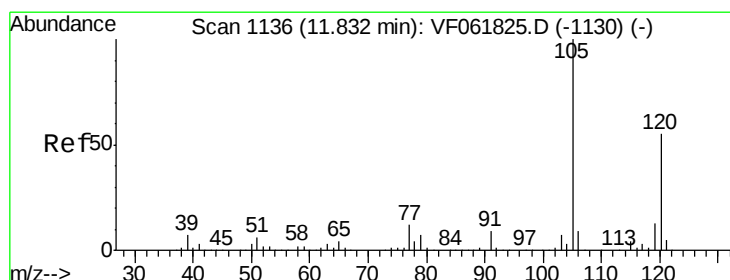
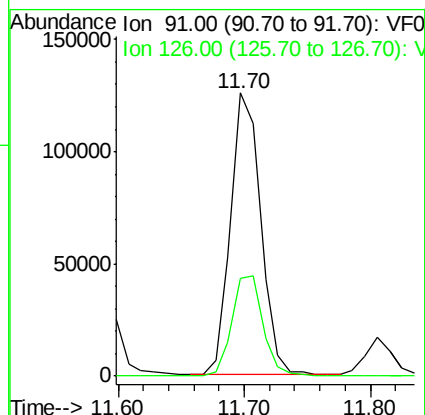
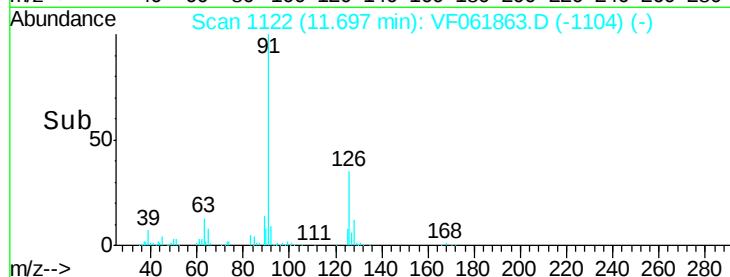
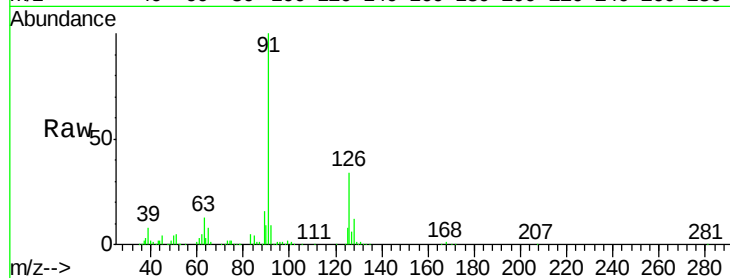
126 34.4 18.1 54.4

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#80

1,3,5-Trimethylbenzene

Concen: 20.056 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.03 min

Lab File: VF061863.D

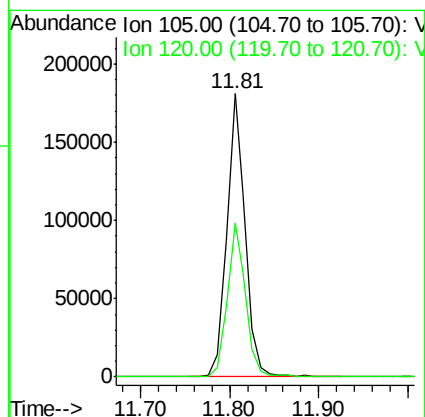
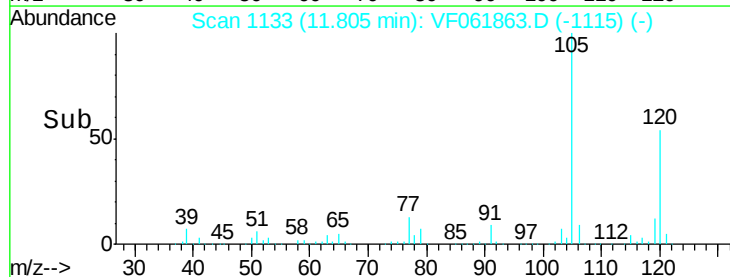
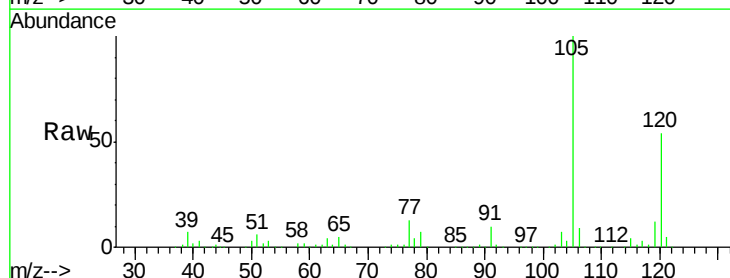
Acq: 8 Mar 2019 15:26

Tgt Ion: 105 Resp: 262761

Ion Ratio Lower Upper

105 100

120 54.4 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 18.302 ug/l m

RT: 11.85 min Scan# 1138

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

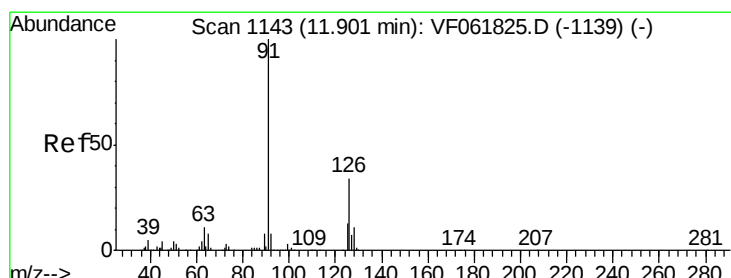
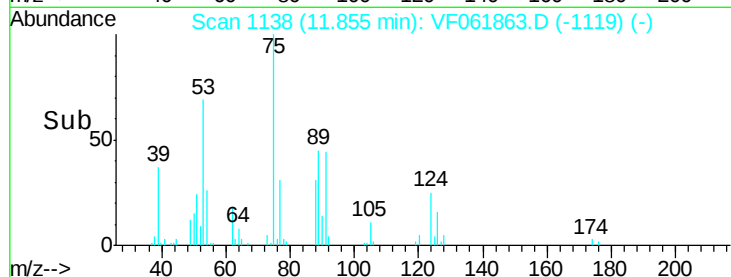
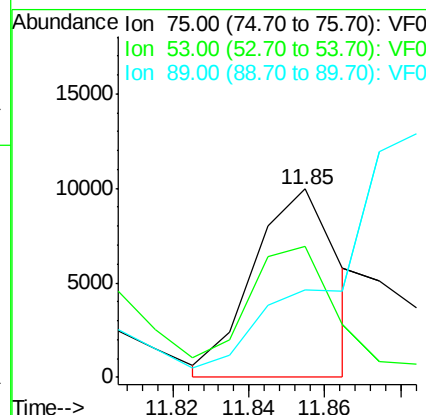
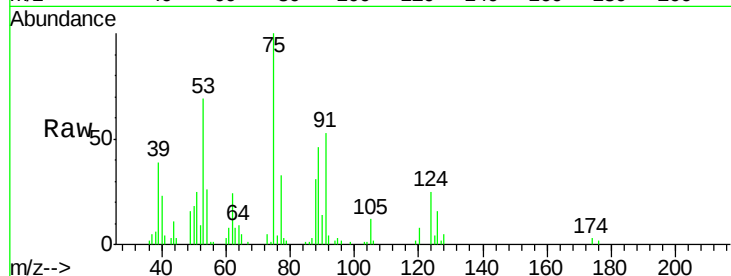
ClientSampleId :

VF0308SBS01

Tot Ion:	75	Resp:	15491
Ion Ratio	Lower	Upper	
75	100		
53	69.3	58.6	88.0
89	46.3	41.4	62.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.770 ug/l

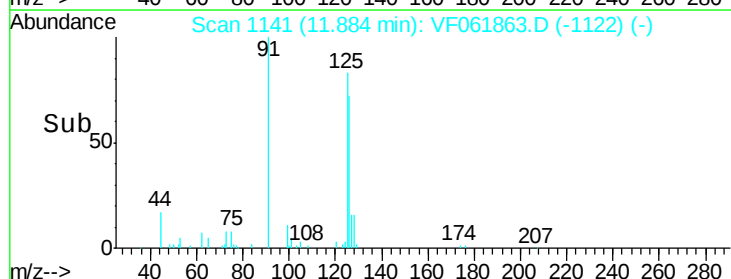
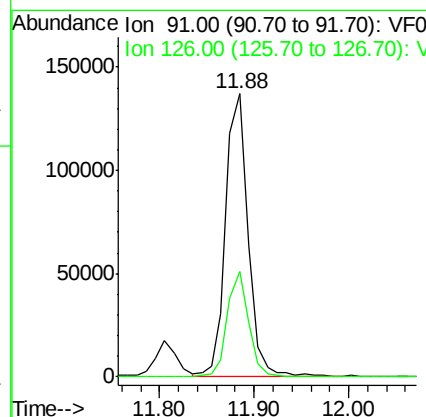
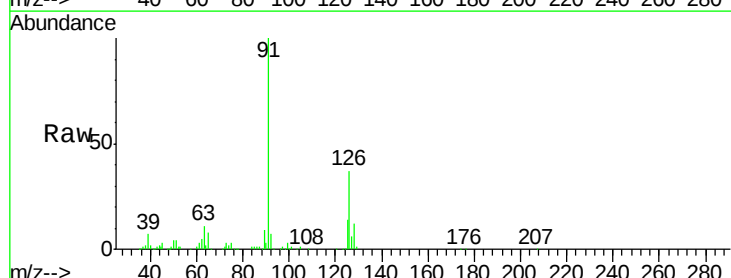
RT: 11.88 min Scan# 1141

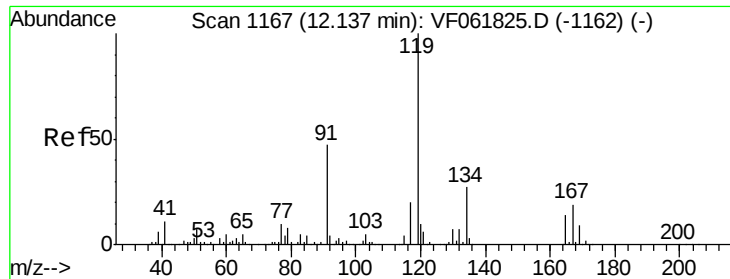
Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion:	91	Resp:	223814
Ion Ratio	Lower	Upper	
91	100		
126	37.4	17.0	50.9





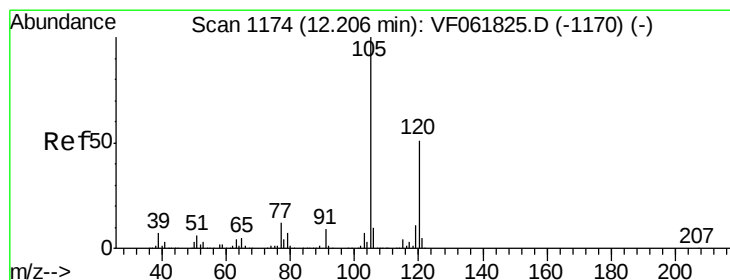
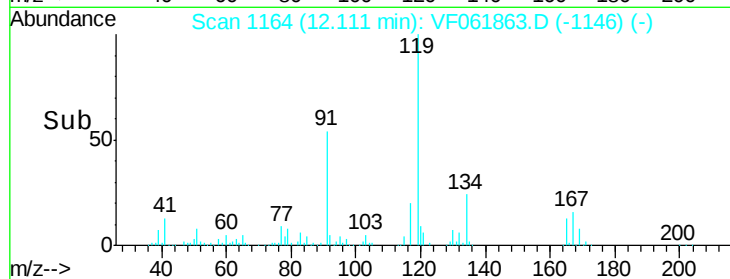
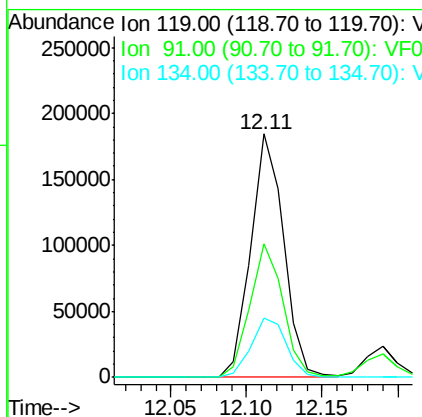
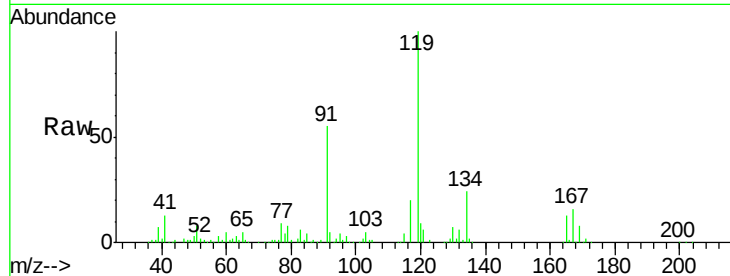
#83
tert-Butylbenzene
Concen: 20.243 ug/l
RT: 12.11 min Scan# 1164
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	281614		
91	54.7	23.5	70.5	
134	24.4	13.3	39.8	

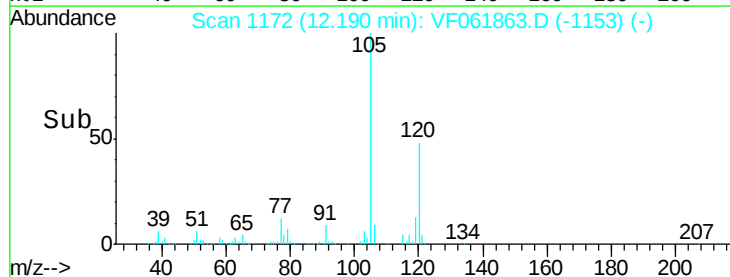
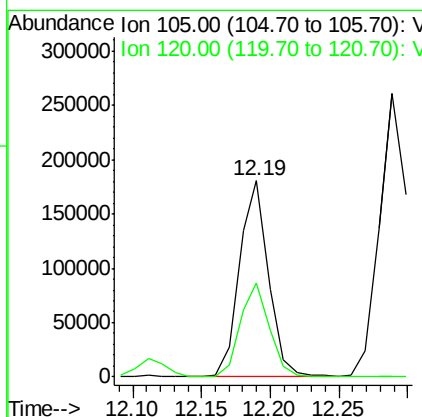
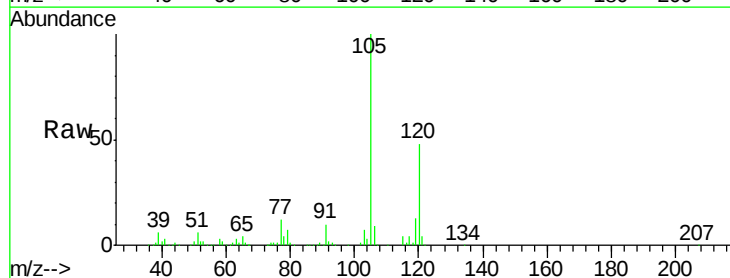
Manual Integrations
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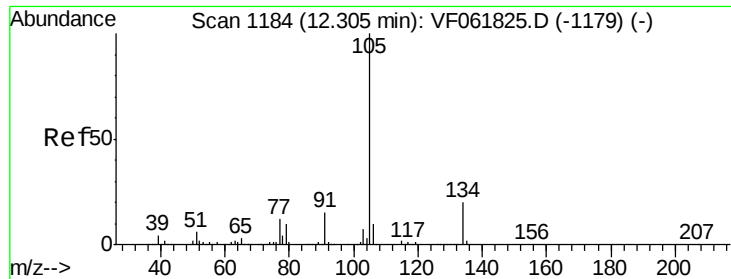
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 20.586 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	264385		
120	48.1	25.8	77.4	





#85

sec-Butylbenzene

Concen: 20.966 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion:105 Resp: 379564

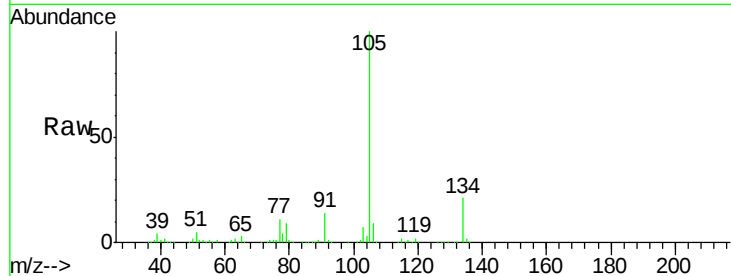
Ion Ratio Lower Upper

105 100

134 21.1 9.8 29.5

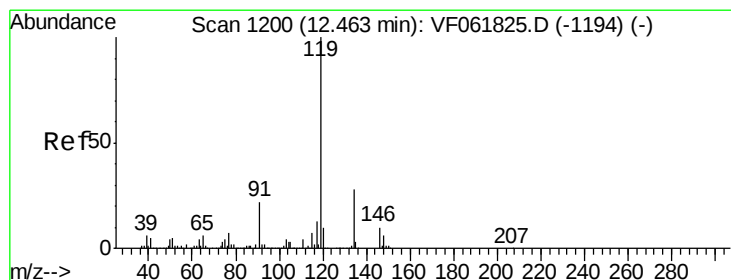
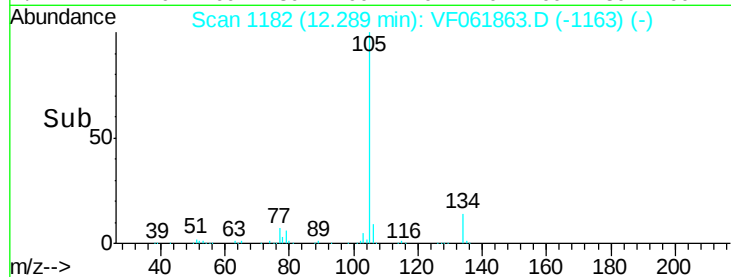
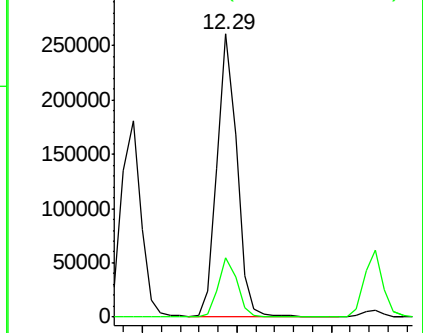
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.838 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

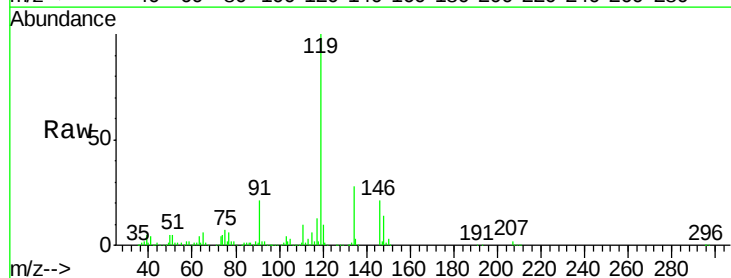
Tgt Ion:119 Resp: 320664

Ion Ratio Lower Upper

119 100

134 27.7 14.0 42.0

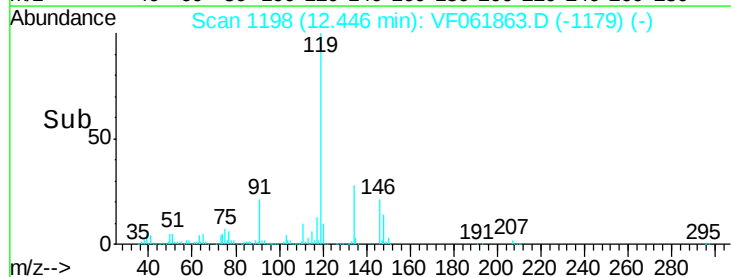
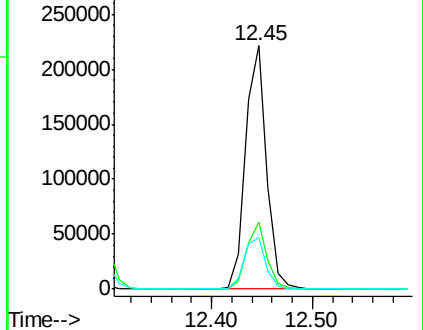
91 21.3 11.1 33.3

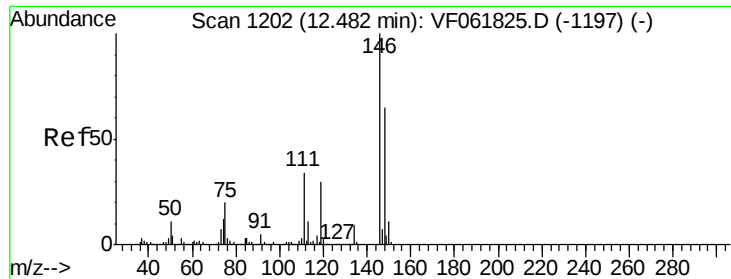


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





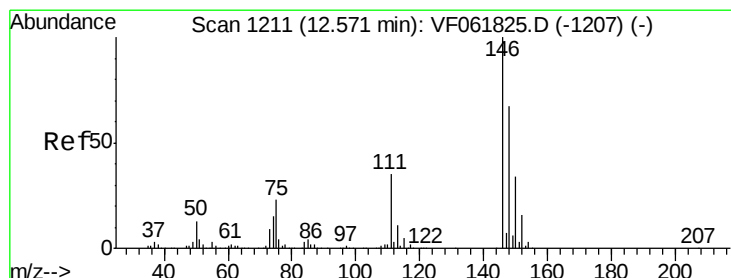
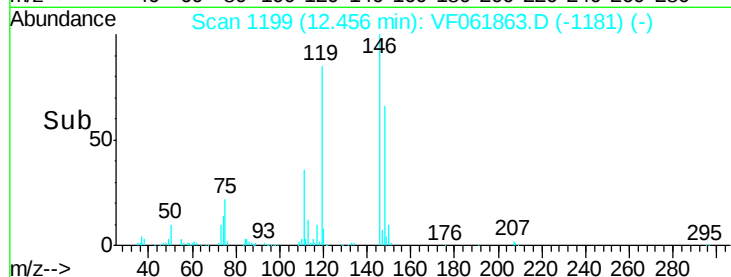
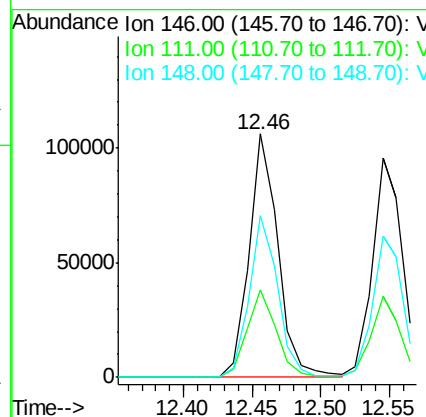
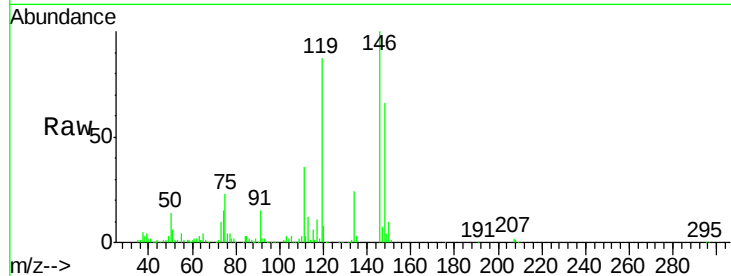
#87
 1,3-Dichlorobenzene
 Concen: 20.892 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	17.0	51.0
148	66.2	32.5	97.5

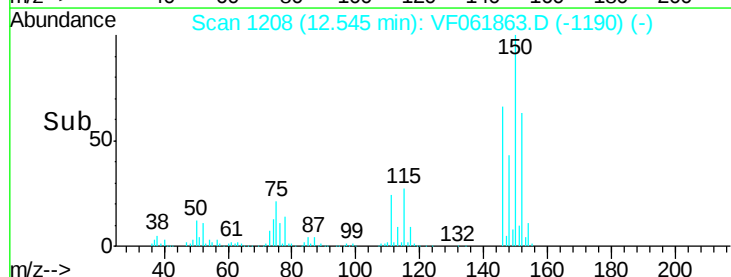
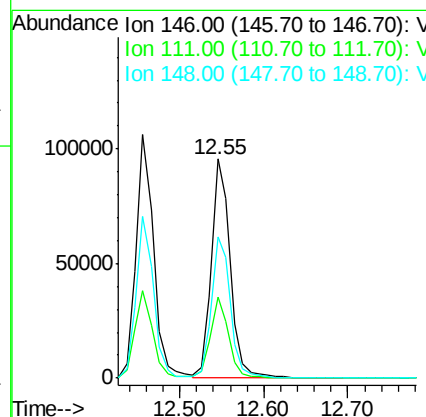
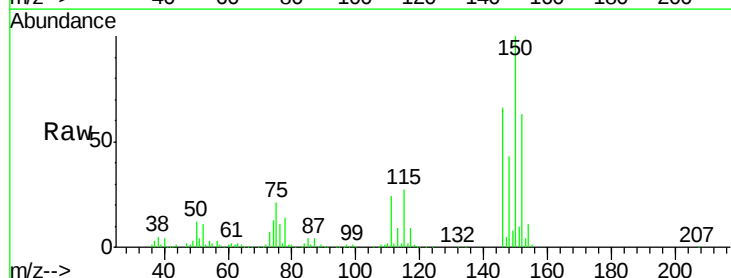
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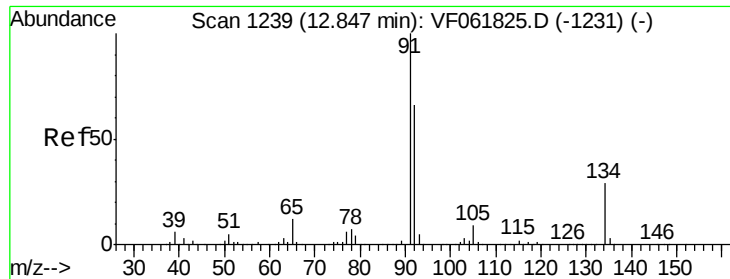
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#88
 1,4-Dichlorobenzene
 Concen: 20.627 ug/l
 RT: 12.55 min Scan# 1208
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	17.6	52.9
148	64.5	33.5	100.4





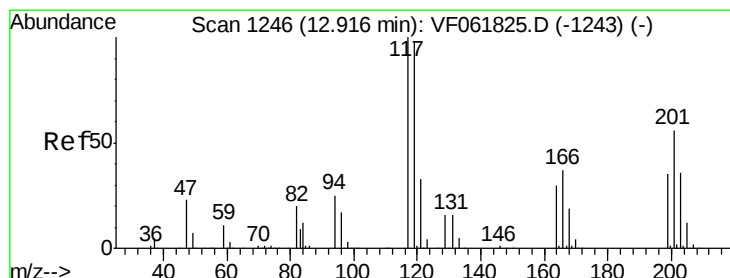
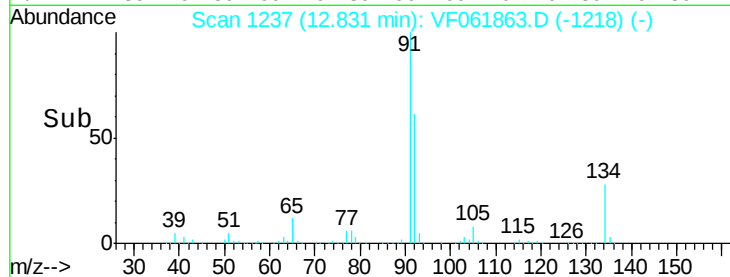
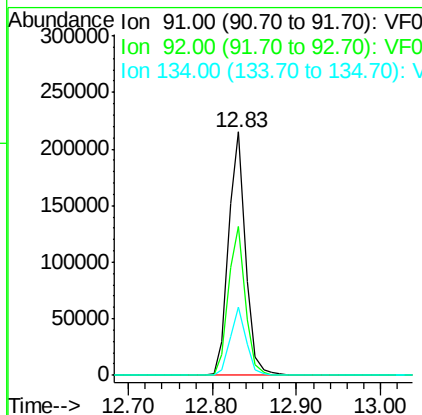
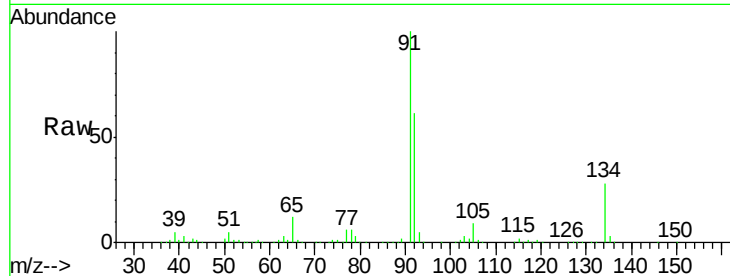
#89
n-Butylbenzene
Concen: 20.449 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.0	32.9	98.6
134	28.1	14.5	43.6

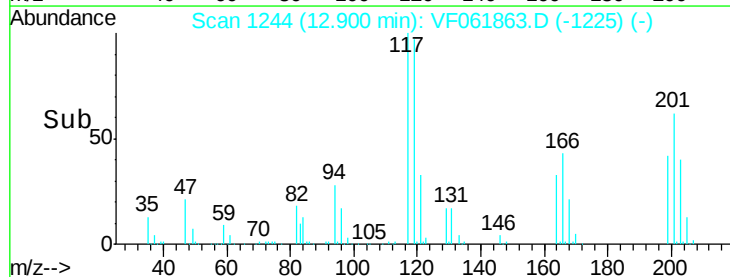
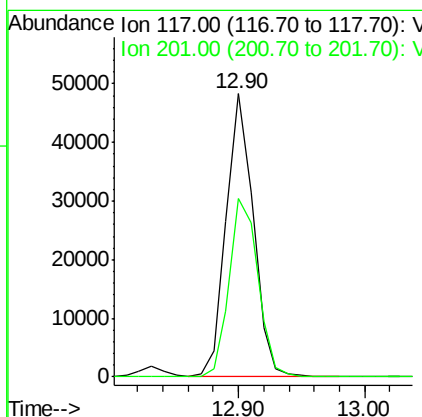
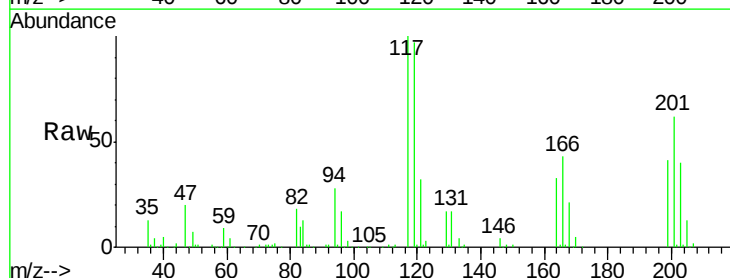
Manual Integrations
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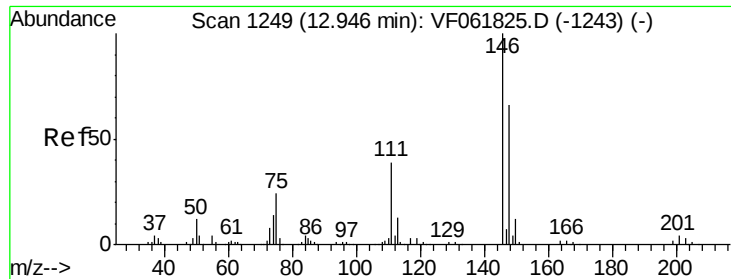
MMDadoda
3/11/2019 10:12:10 AM



#90
Hexachloroethane
Concen: 19.509 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	62.9	27.8	83.4





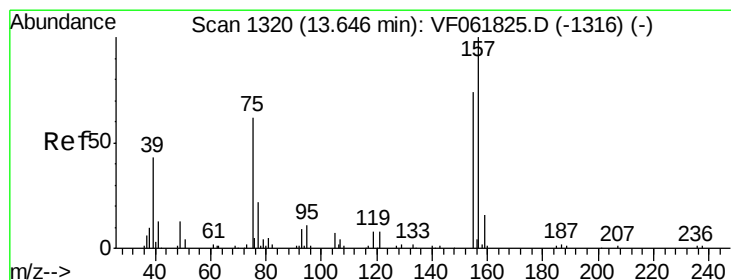
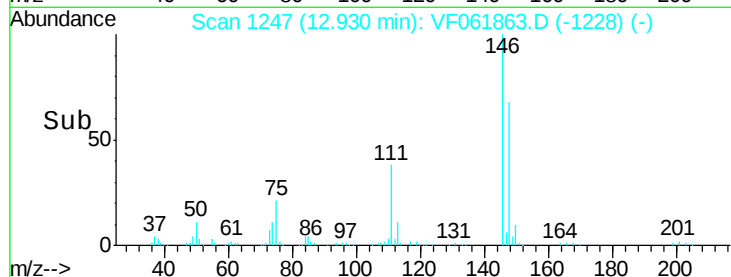
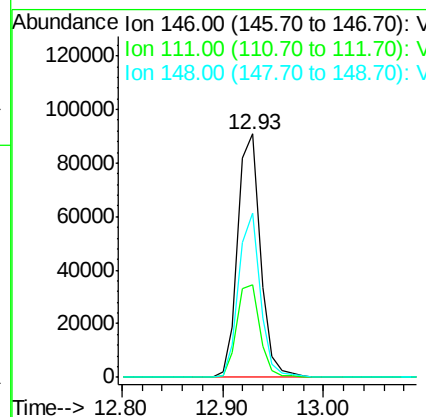
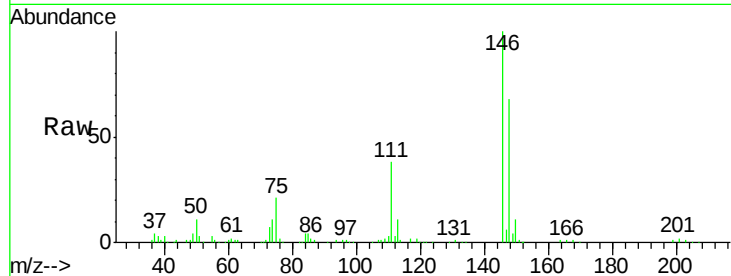
#91
 1,2-Dichlorobenzene
 Concen: 20.167 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.4	58.4
148	67.7	33.0	98.9

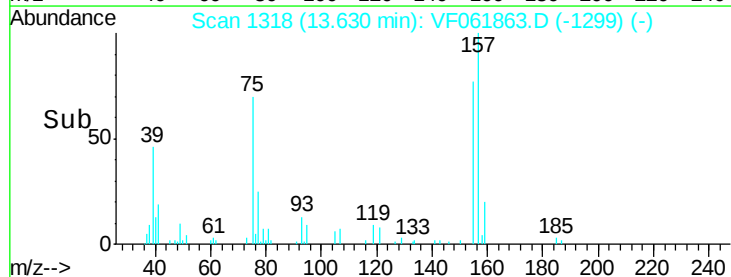
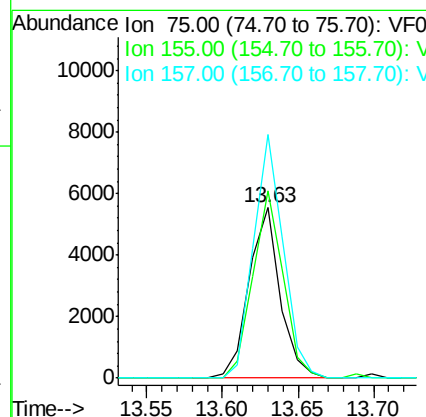
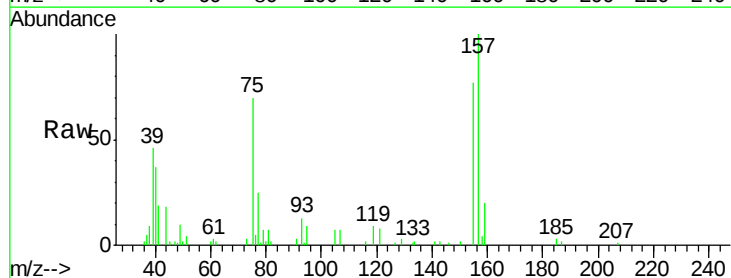
Manual Integrations
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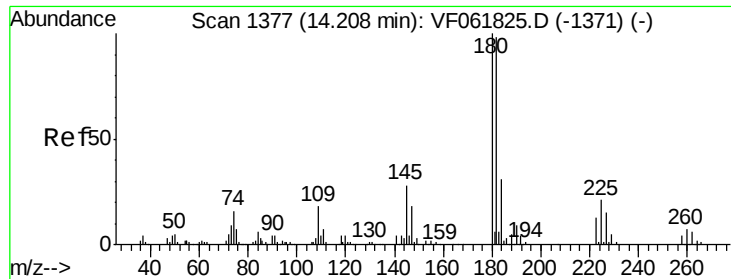
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.412 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	110.2	59.8	179.4
157	143.0	81.2	243.4





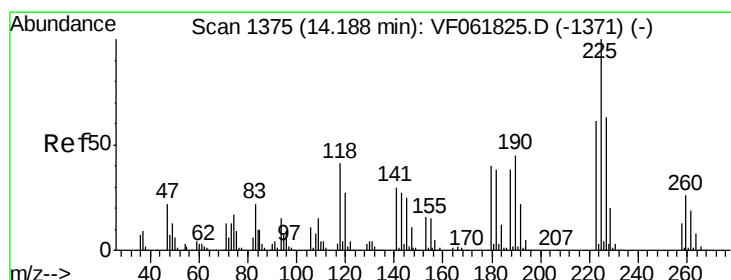
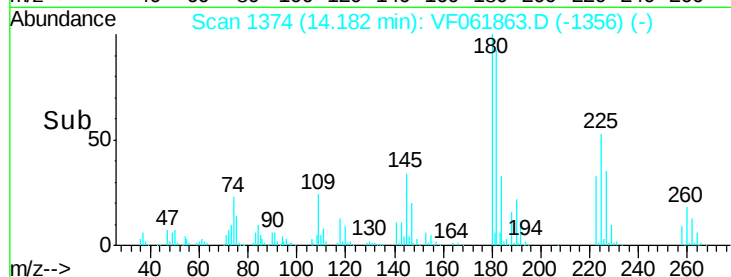
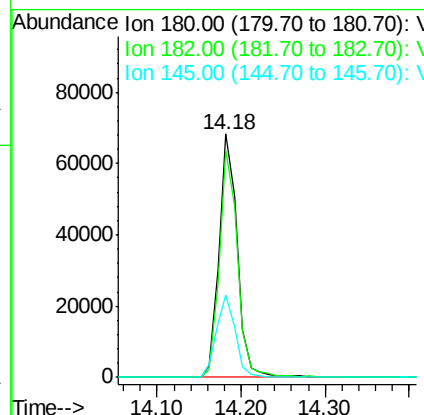
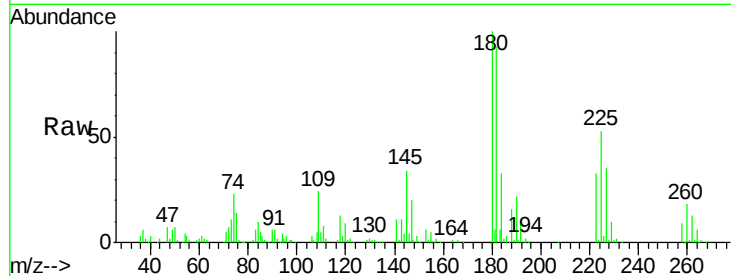
#93
 1,2,4-Trichlorobenzene
 Concen: 20.707 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	93.4	49.0	147.2	
145	33.6	14.1	42.4	

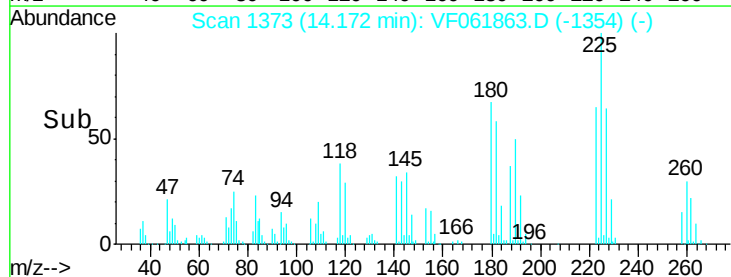
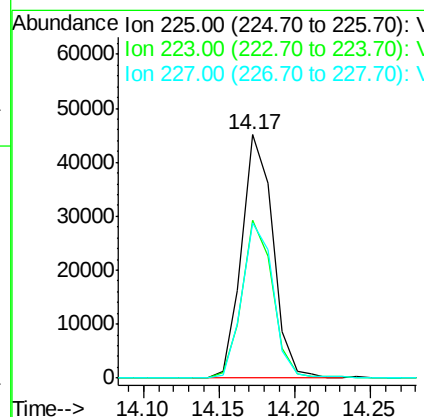
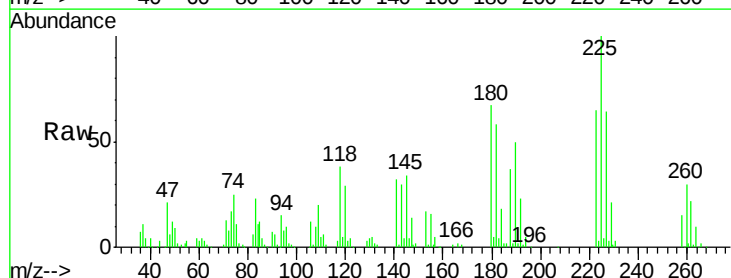
Manual Integrations
 APPROVED

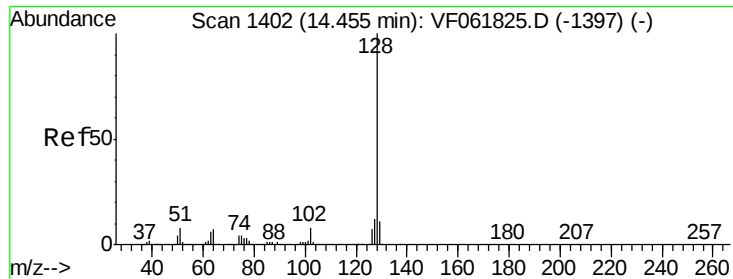
MMDadoda
 3/11/2019 10:12:10 AM



#94
 Hexachlorobutadiene
 Concen: 18.897 ug/l
 RT: 14.17 min Scan# 1373
 Delta R.T. -0.02 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.9	30.3	90.9	
227	63.6	31.3	93.8	





#95

Naphthalene

Concen: 18.679 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

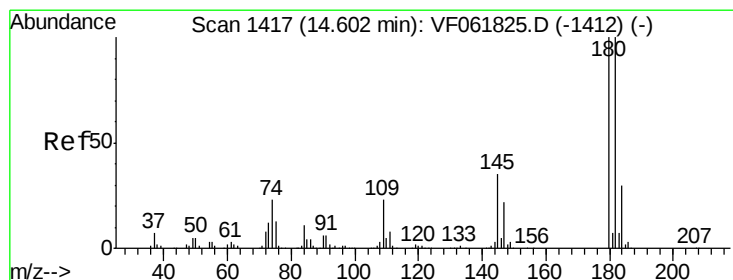
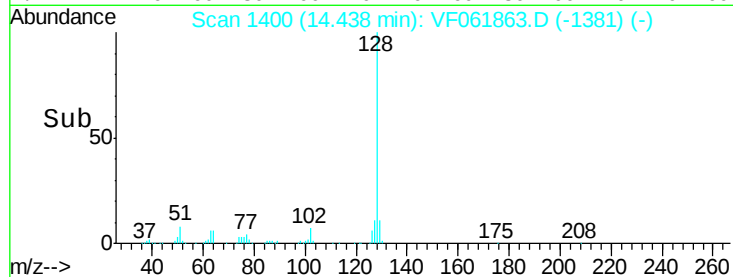
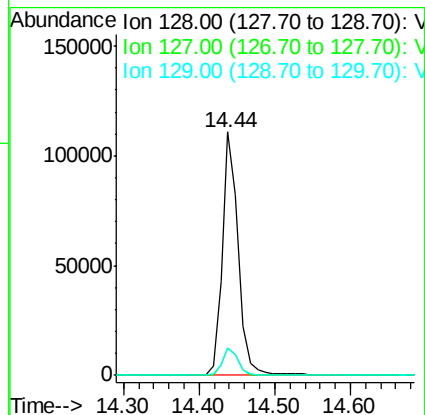
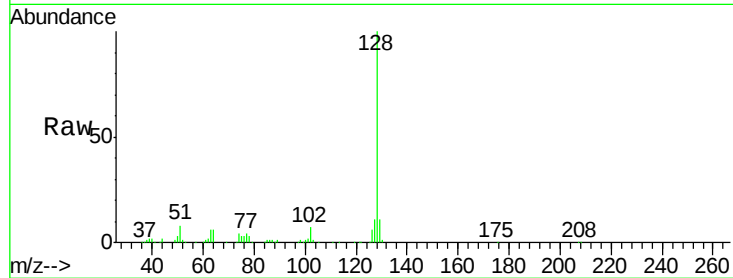
ClientSampleId :

VF0308SBS01

Tot Ion:	128	Resp:	164786
Ion Ratio		Lower	Upper
128	100		
127	11.1	9.3	13.9
129	11.2	8.8	13.2

Manual Integrations
APPROVED

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#96

1,2,3-Trichlorobenzene

Concen: 19.609 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion:	180	Resp:	89677
Ion Ratio		Lower	Upper
180	100		
182	96.0	50.2	150.7
145	32.5	17.5	52.5

