

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032119\
 Data File : VF062057.D
 Acq On : 21 Mar 2019 13:33
 Operator : VA/AP
 Sample : VF0321SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 2:59:14 AM

Quant Time: Mar 22 08:26:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 03:22:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	294613	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	464441	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	361527	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	188827	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	96878	45.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.36%	
35) Dibromofluoromethane	4.12	113	147818	47.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.80%	
50) Toluene-d8	7.56	98	404549	44.37	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.74%	
62) 4-Bromofluorobenzene	11.41	95	156988	43.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.68%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	69350	22.081	ug/l	98
3) Chloromethane	1.10	50	71513	22.406	ug/l #	87
4) Vinyl Chloride	1.14	62	67291	21.800	ug/l	100
5) Bromomethane	1.34	94	47768	22.029	ug/l	89
6) Chloroethane	1.41	64	33629	21.104	ug/l	90
7) Trichlorofluoromethane	1.49	101	85989m	21.027	ug/l	
8) Diethyl Ether	1.63	74	21016	23.117	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.85	101	60637	21.045	ug/l	92
10) Methyl Iodide	1.93	142	114903m	22.779	ug/l	
11) Tert butyl alcohol	2.58	59	12857	99.075	ug/l #	93
12) 1,1-Dichloroethene	1.81	96	56604	22.764	ug/l	93
13) Acrolein	2.01	56	14787	105.553	ug/l	95
14) Allyl chloride	2.10	41	68019	21.430	ug/l	94
15) Acrylonitrile	2.96	53	46812	118.624	ug/l	99
16) Acetone	2.25	43	54767	115.003	ug/l	97
17) Carbon Disulfide	1.83	76	150610m	20.954	ug/l	
18) Methyl Acetate	2.35	43	24379	22.590	ug/l	93
19) Methyl tert-butyl Ether	2.44	73	99477	22.078	ug/l #	91
20) Methylene Chloride	2.19	84	56658m	22.803	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	57749m	22.255	ug/l	
22) Diisopropyl ether	2.81	45	175903	23.040	ug/l	96
23) Vinyl Acetate	3.19	43	367453	122.091	ug/l	99
24) 1,1-Dichloroethane	2.88	63	102927	23.186	ug/l	99
25) 2-Butanone	4.35	43	108929	115.496	ug/l	93
26) 2,2-Dichloropropane	3.61	77	42515	20.304	ug/l	96
27) cis-1,2-Dichloroethene	3.48	96	75755	23.163	ug/l	98
28) Bromochloromethane	3.72	49	42290	22.959	ug/l	99
29) Tetrahydrofuran	4.08	42	44377	108.193	ug/l	98
30) Chloroform	3.86	83	115249	22.913	ug/l	97
31) Cyclohexane	3.69	56	101680m	23.186	ug/l	
32) 1,1,1-Trichloroethane	4.11	97	65034	19.469	ug/l	98
36) 1,1-Dichloropropene	4.29	75	94316	22.488	ug/l	98
37) Ethyl Acetate	4.12	43	41907	22.253	ug/l #	90
38) Carbon Tetrachloride	3.99	117	63373	20.675	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	107125	21.757	ug/l	99
40) Benzene	4.64	78	236258	21.259	ug/l	99
41) Methacrylonitrile	4.75	41	20843	20.716	ug/l #	89
42) 1,2-Dichloroethane	4.95	62	58964	21.313	ug/l	100
43) Isopropyl Acetate	6.96	43	46594	20.912	ug/l #	91
44) Trichloroethene	5.51	130	74077	21.759	ug/l	97
45) 1,2-Dichloropropane	6.24	63	59405	22.587	ug/l	94
46) Dibromomethane	6.09	93	34519	22.063	ug/l	96
47) Bromodichloromethane	6.39	83	78595	21.307	ug/l	99
48) Methyl methacrylate	6.72	41	28546	19.823	ug/l #	79
49) 1,4-Dioxane	6.71	88	4685	365.757	ug/l #	85
51) 4-Methyl-2-Pentanone	8.26	43	174712	110.422	ug/l	100
52) Toluene	7.63	92	142639	21.006	ug/l	98
53) t-1,3-Dichloropropene	8.28	75	65118	20.911	ug/l	92
54) cis-1,3-Dichloropropene	7.30	75	90196	22.198	ug/l	98
55) 1,1,2-Trichloroethane	8.50	97	40162	21.192	ug/l	96
56) Ethyl methacrylate	8.63	69	47366	21.986	ug/l	90
57) 1,3-Dichloropropane	8.85	76	69754	22.065	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.29	63	36252	92.903	ug/l	92
59) 2-Hexanone	9.49	43	130036	113.562	ug/l	92
60) Dibromochloromethane	8.71	129	58296	22.158	ug/l	97
61) 1,2-Dibromoethane	8.99	107	42275	20.796	ug/l	99
64) Tetrachloroethene	8.15	164	59168	22.515	ug/l	92
65) Chlorobenzene	9.80	112	155297	23.072	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	63890	24.488	ug/l	95
67) Ethyl Benzene	9.90	91	276059	23.953	ug/l	96
68) m/p-Xylenes	10.13	106	199638	46.057	ug/l	94
69) o-Xylene	10.72	106	112834	24.327	ug/l	95
70) Styrene	10.79	104	152699	23.764	ug/l	96
71) Bromoform	10.77	173	30709	23.270	ug/l	98
73) Isopropylbenzene	11.12	105	322412	24.715	ug/l	97
74) N-amyl acetate	11.38	43	75936	25.404	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	51735	24.026	ug/l	91
76) 1,2,3-Trichloropropane	11.79	75	35159	23.351	ug/l	93
77) Bromobenzene	11.49	156	63915	21.157	ug/l	95
78) n-propylbenzene	11.59	91	364087	24.272	ug/l	98
79) 2-Chlorotoluene	11.72	91	207045	24.453	ug/l	100
80) 1,3,5-Trimethylbenzene	11.82	105	250054	23.729	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.87	75	16932m	25.419	ug/l	
82) 4-Chlorotoluene	11.90	91	204831	23.923	ug/l	98
83) tert-Butylbenzene	12.13	119	276941	25.129	ug/l	97
84) 1,2,4-Trimethylbenzene	12.20	105	255707	24.226	ug/l	96
85) sec-Butylbenzene	12.30	105	373044	25.054	ug/l	99
86) p-Isopropyltoluene	12.46	119	309234	24.889	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	140959	23.740	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	135607	23.728	ug/l	99
89) n-Butylbenzene	12.85	91	297655	25.495	ug/l	98
90) Hexachloroethane	12.91	117	71156	25.095	ug/l	94
91) 1,2-Dichlorobenzene	12.94	146	136443	24.811	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8468	24.507	ug/l	76

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QLast Update : Fri Mar 22 03:22:44 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	90029	23.509	ug/l	99
94) Hexachlorobutadiene	14.19	225	59958	23.584	ug/l	95
95) Naphthalene	14.45	128	153113	22.231	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	80588	22.874	ug/l	98

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

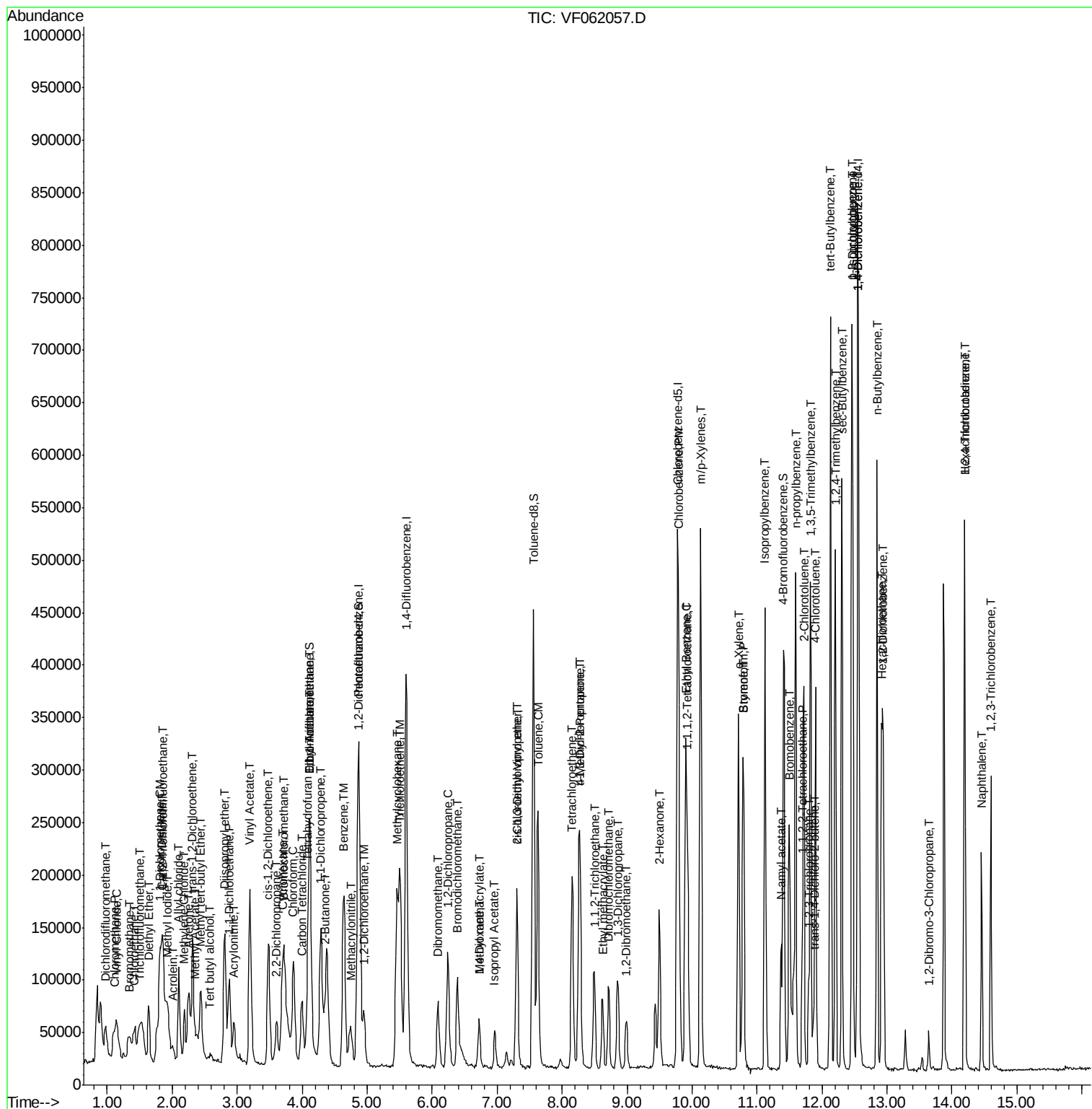
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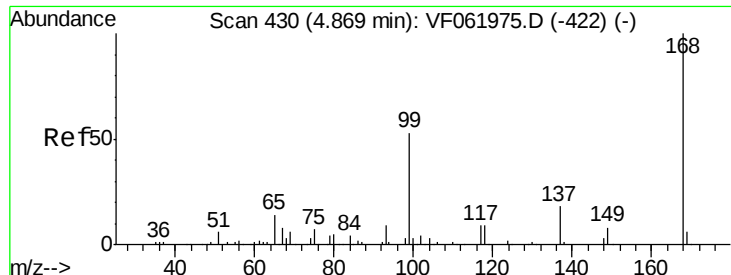
Instrument :
MSVOA_F
ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion:168 Resp: 294613

Ion Ratio Lower Upper

168 100

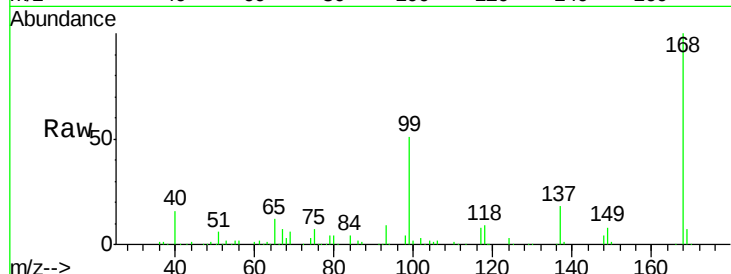
99 51.2 42.4 63.6

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

100000

80000

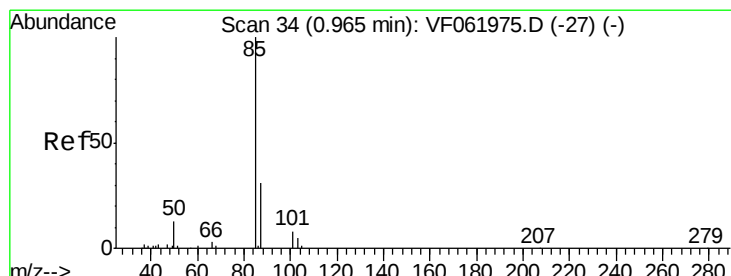
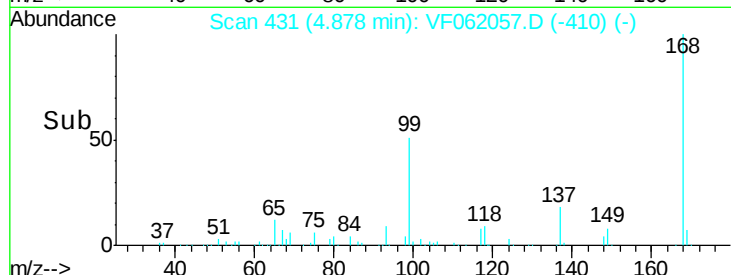
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.081 ug/l

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF062057.D

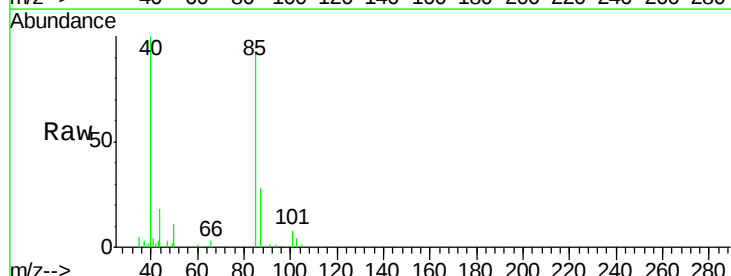
Acq: 21 Mar 2019 13:33

Tgt Ion: 85 Resp: 69350

Ion Ratio Lower Upper

85 100

87 29.5 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

20000

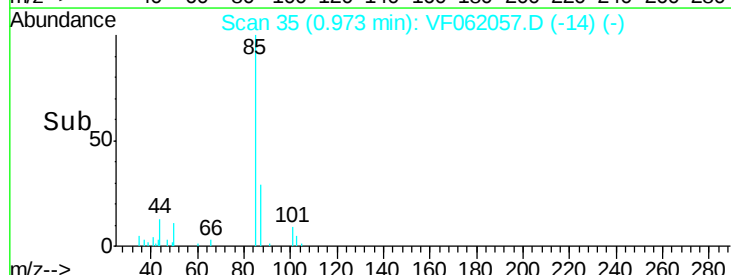
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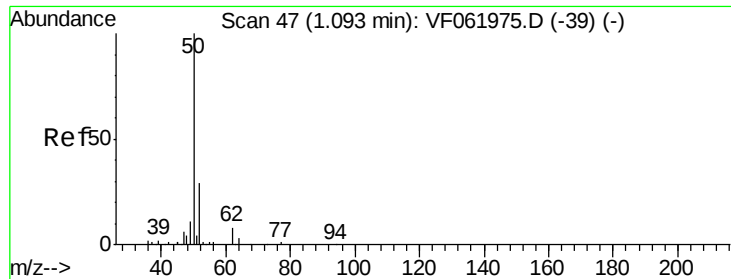
10000

5000

0

Time-->





#3

Chloromethane

Concen: 22.406 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 50 Resp: 71513

Ion Ratio Lower Upper

50 100

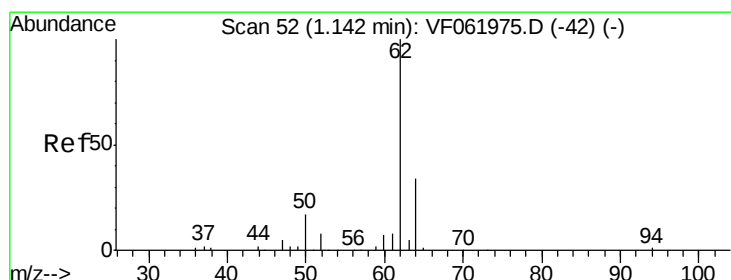
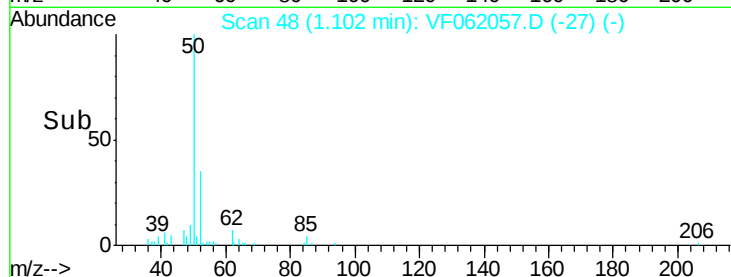
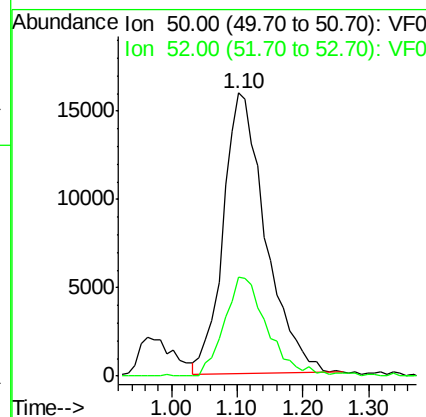
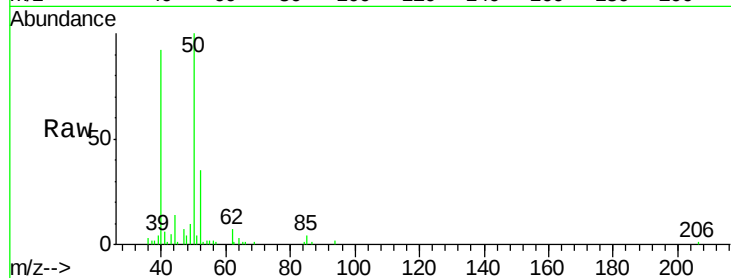
52 34.9 22.6 34.0#

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.800 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF062057.D

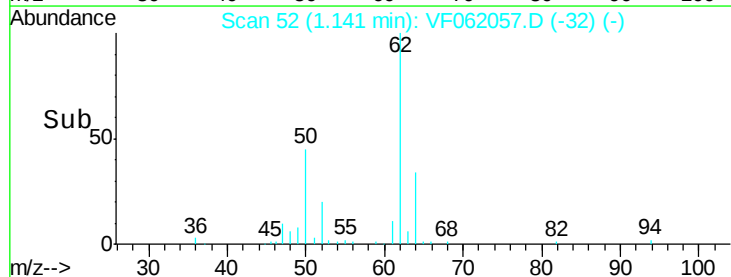
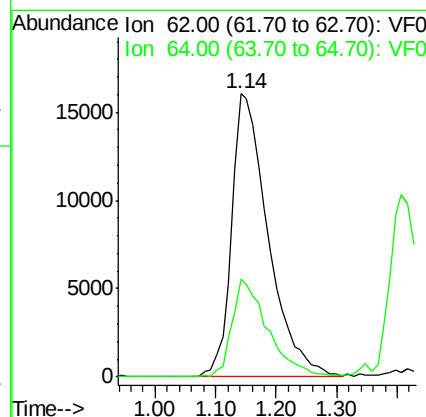
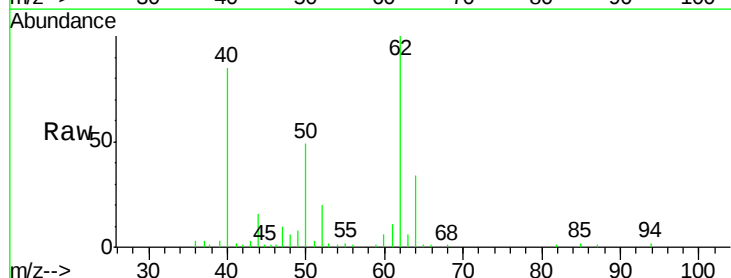
Acq: 21 Mar 2019 13:33

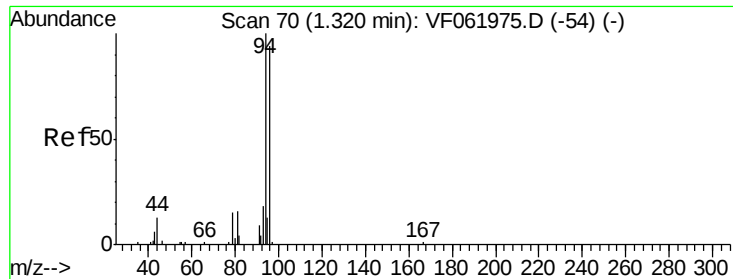
Tgt Ion: 62 Resp: 67291

Ion Ratio Lower Upper

62 100

64 34.3 27.4 41.2





#5

Bromomethane

Concen: 22.029 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 94 Resp: 47768

Ion Ratio Lower Upper

94 100

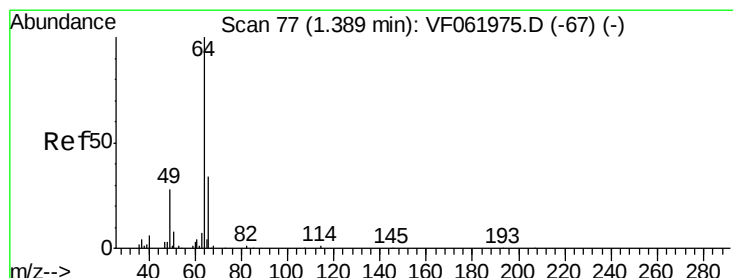
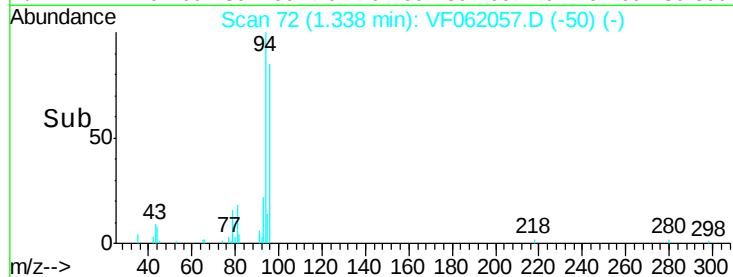
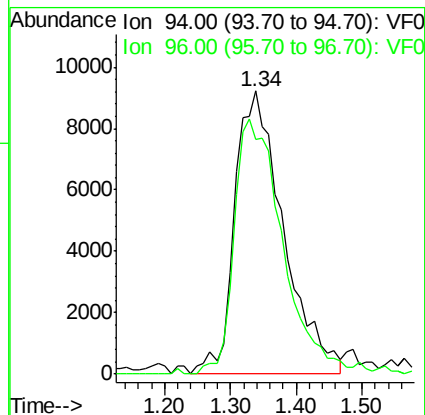
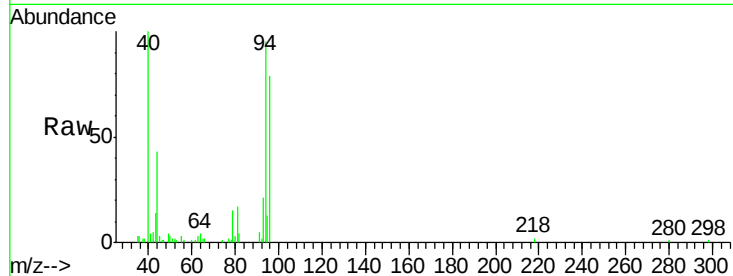
96 82.9 75.0 112.6

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#6

Chloroethane

Concen: 21.104 ug/l

RT: 1.41 min Scan# 79

Delta R.T. 0.02 min

Lab File: VF062057.D

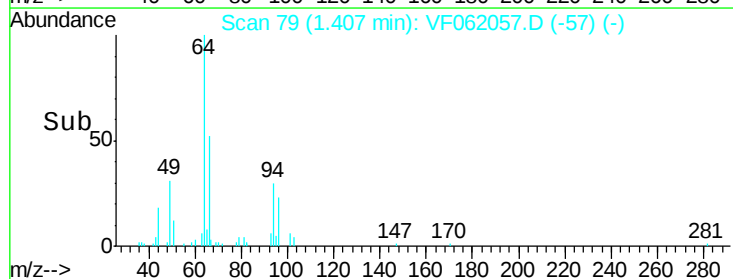
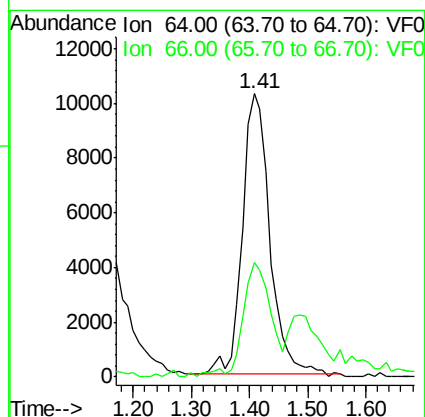
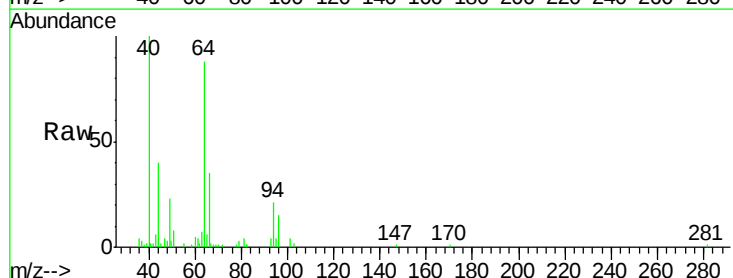
Acq: 21 Mar 2019 13:33

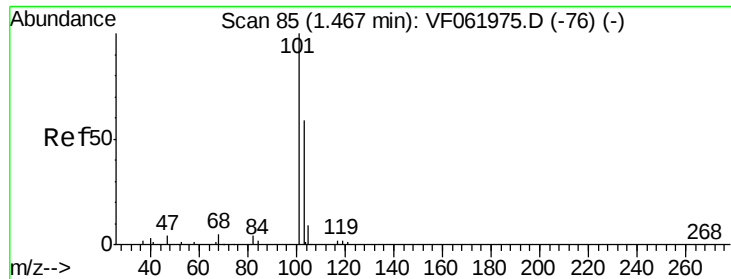
Tgt Ion: 64 Resp: 33629

Ion Ratio Lower Upper

64 100

66 40.3 27.6 41.4





#7

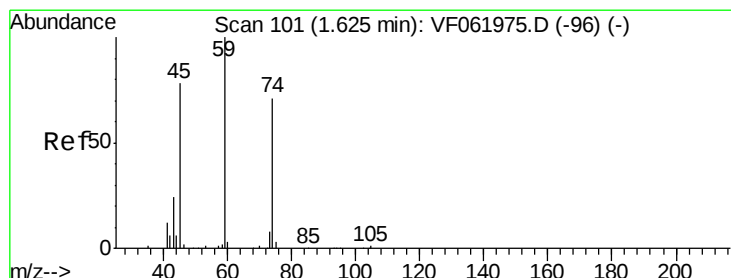
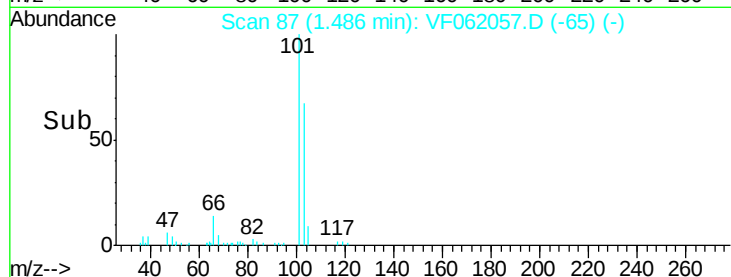
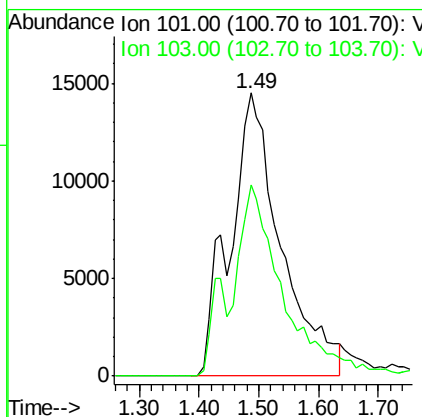
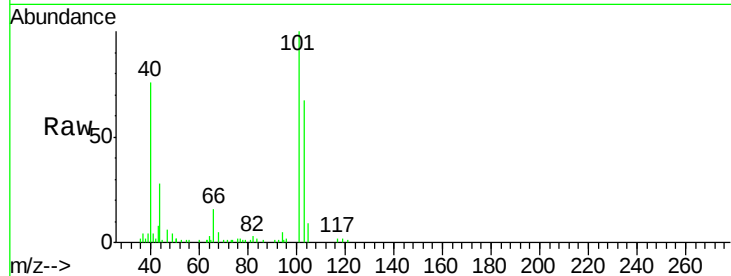
Trichlorofluoromethane
Concen: 21.027 ug/l m
RT: 1.49 min Scan# 87
Delta R.T. 0.02 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	67.3	47.3	70.9

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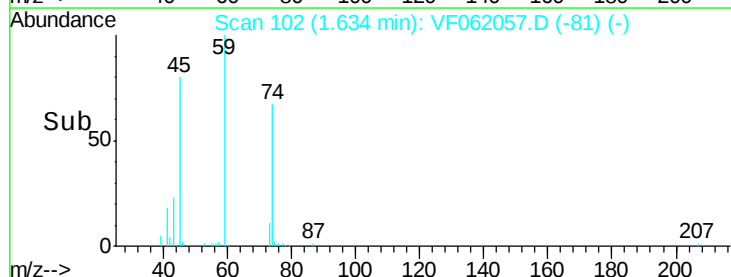
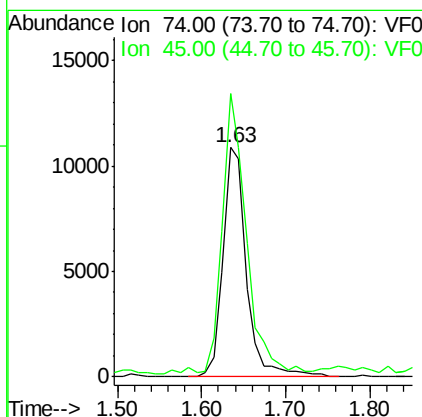
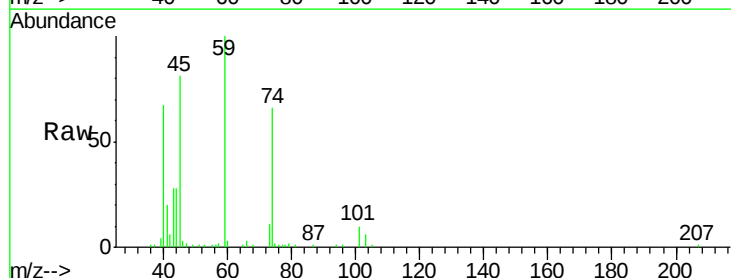
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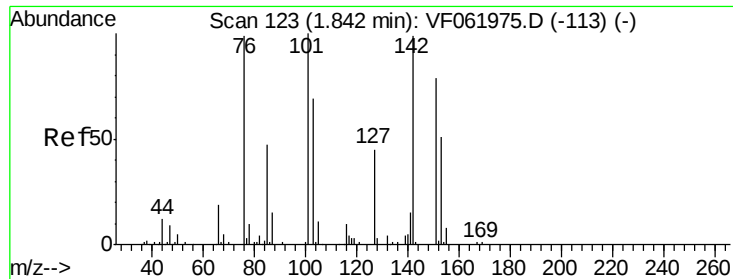


#8

Diethyl Ether
Concen: 23.117 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.01 min
Lab File: VF062057.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	123.5	56.3	168.8





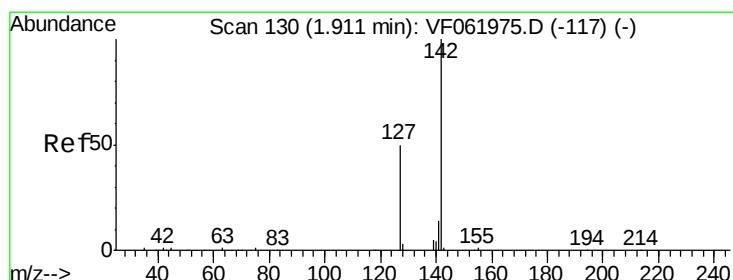
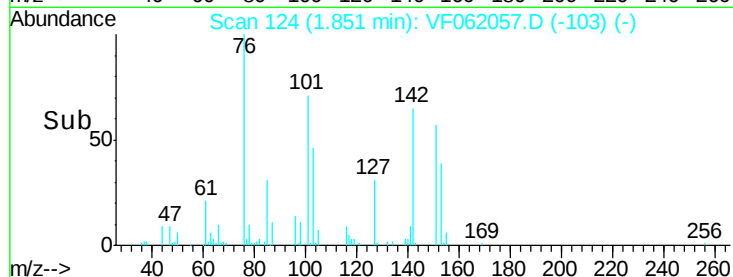
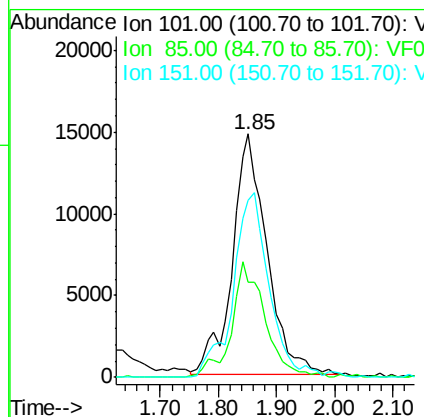
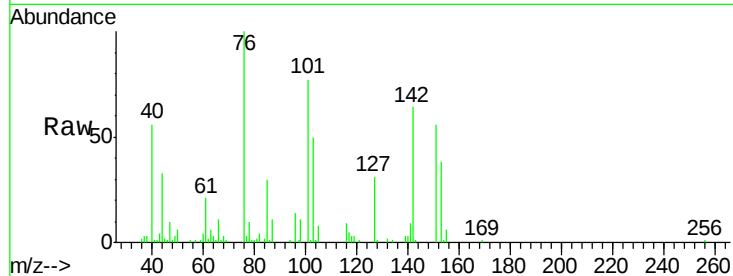
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 21.045 ug/l
 RT: 1.85 min Scan# 124
 Delta R.T. 0.01 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	39.2	36.8	55.2
151	72.5	62.2	93.2

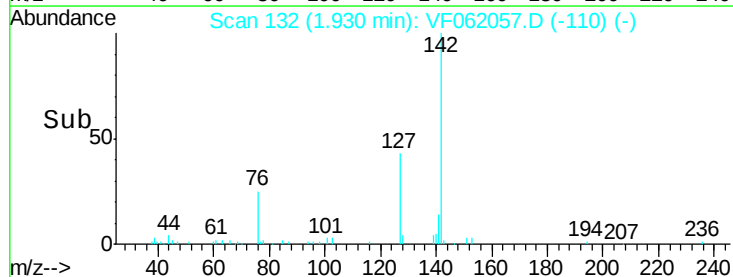
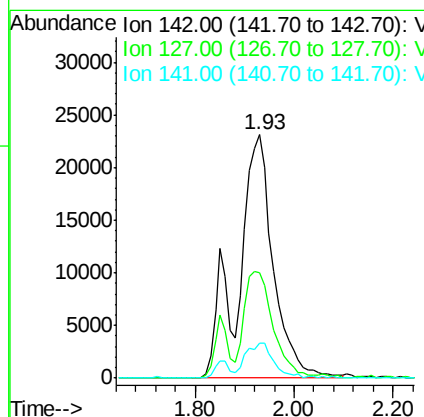
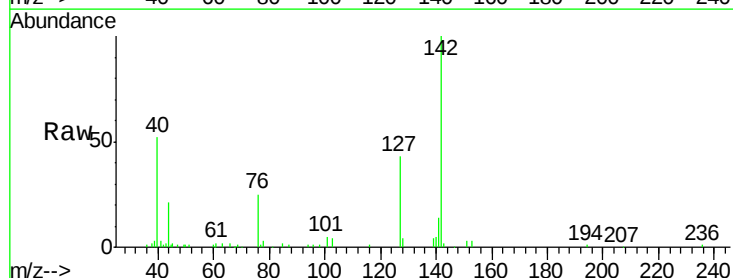
Manual Integrations
 APPROVED

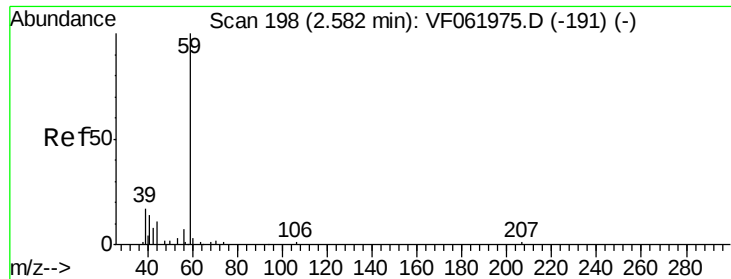
MMDadoda
 3/23/2019 2:59:14 AM



#10
 Methyl Iodide
 Concen: 22.779 ug/l m
 RT: 1.93 min Scan# 132
 Delta R.T. 0.02 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
142	100		
127	43.2	39.7	59.5
141	14.5	10.8	16.2





#11

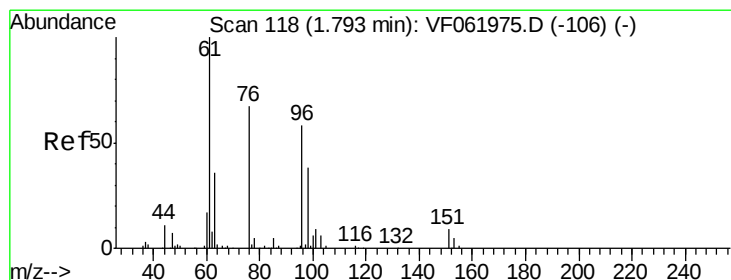
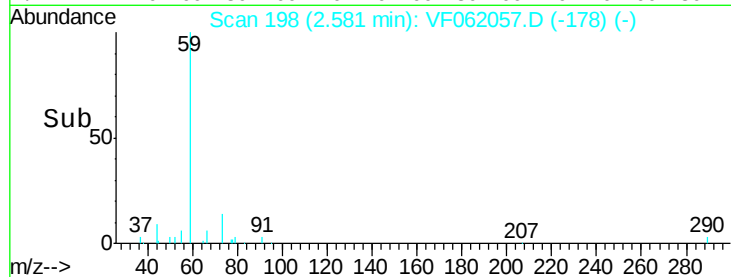
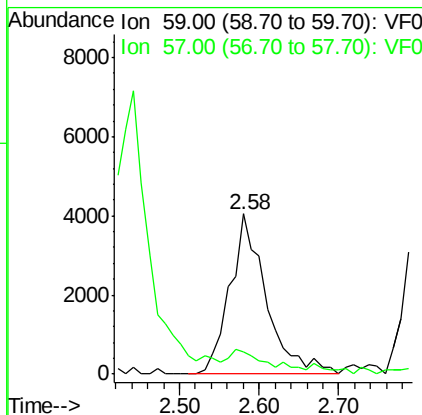
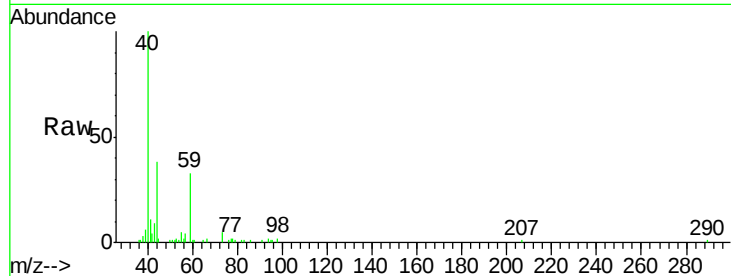
Tert butyl alcohol
 Concen: 99.075 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	59	Resp	12857
Ion Ratio	100	Lower	Upper
57	13.5	8.7	13.1#

Manual Integrations
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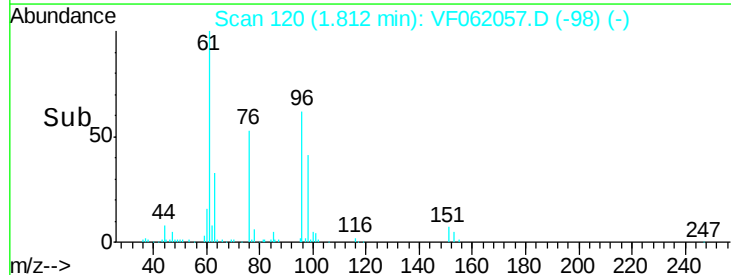
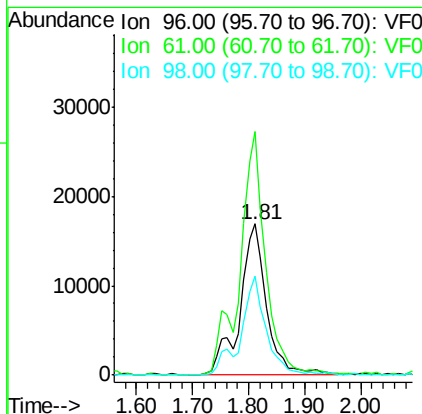
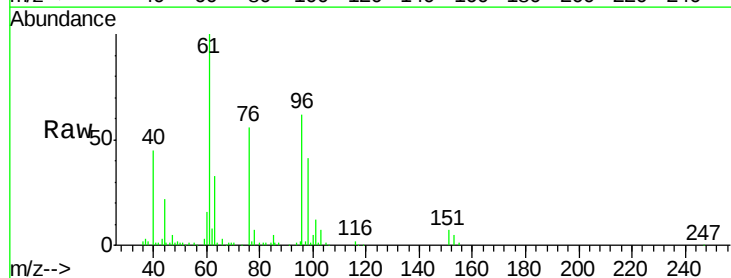
MMDadoda
 3/23/2019 2:59:14 AM

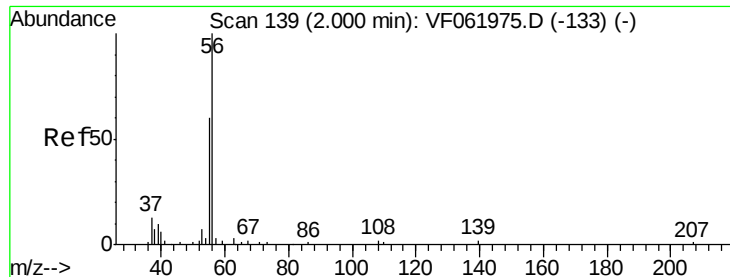


#12

1,1-Dichloroethene
 Concen: 22.764 ug/l
 RT: 1.81 min Scan# 120
 Delta R.T. 0.02 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	96	Resp	56604
Ion Ratio	100	Lower	Upper
61	161.1	138.6	208.0
98	65.3	53.2	79.8





#13

Acrolein

Concen: 105.553 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 56 Resp: 14787

Ion Ratio Lower Upper

56 100

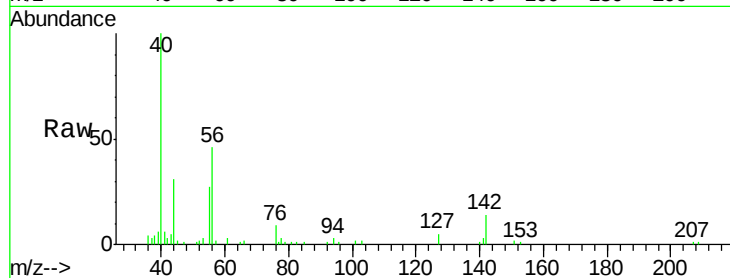
55 57.8 49.1 73.7

Manual Integrations

APPROVED

MMDadoda

3/23/2019 2:59:14 AM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.01

6000

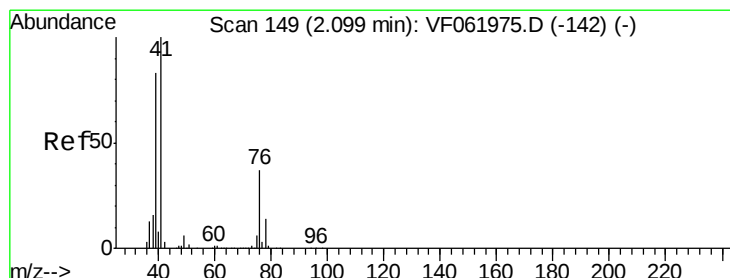
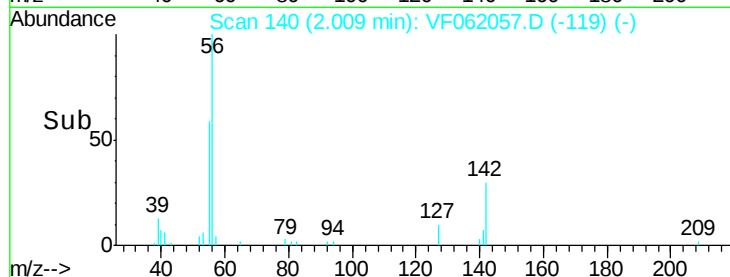
4000

2000

0

Time-->

1.90 2.00 2.10 2.20



#14

Allyl chloride

Concen: 21.430 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

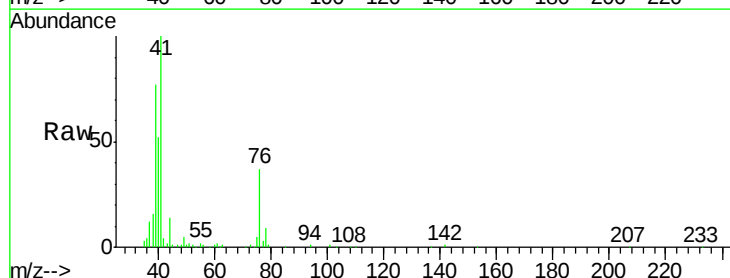
Tgt Ion: 41 Resp: 68019

Ion Ratio Lower Upper

41 100

39 77.0 66.8 100.2

76 37.2 31.1 46.7



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

2.10

40000

30000

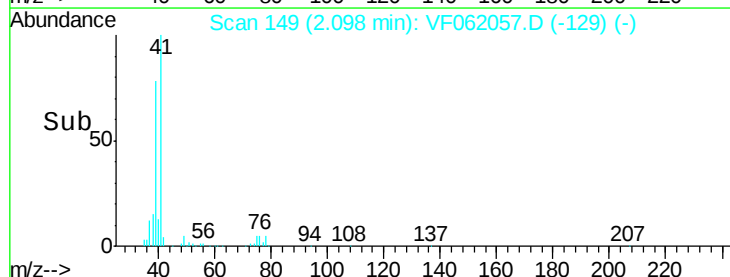
20000

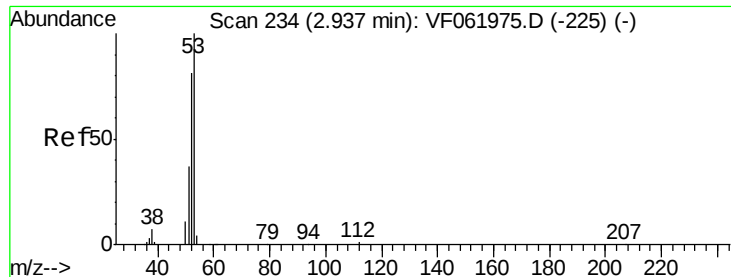
10000

0

Time-->

2.00 2.05 2.10 2.15





#15

Acrylonitrile

Concen: 118.624 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

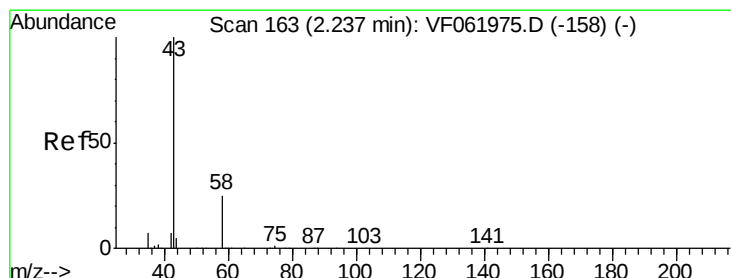
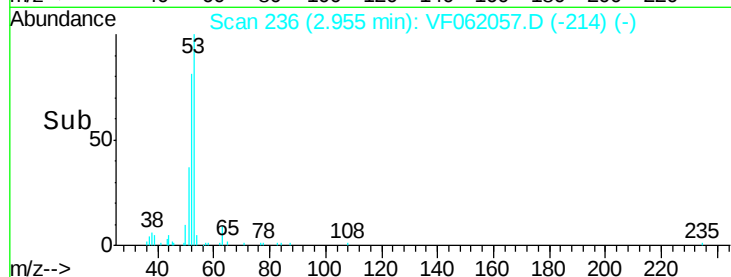
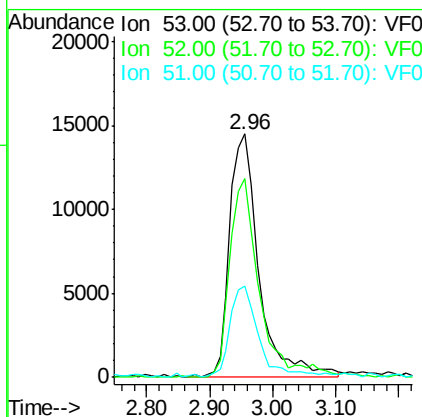
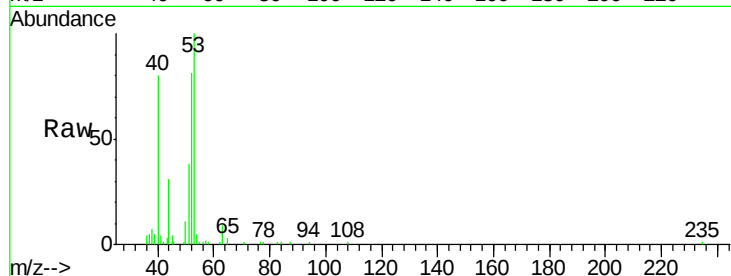
ClientSampleId :

VF0321SBS01

Tot Ion:	53	Resp:	46812
Ion	Ratio	Lower	Upper
53	100		
52	81.5	64.4	96.6
51	37.6	30.3	45.5

Manual Integrations
APPROVED

MMDadoda
3/23/2019 2:59:14 AM



#16

Acetone

Concen: 115.003 ug/l

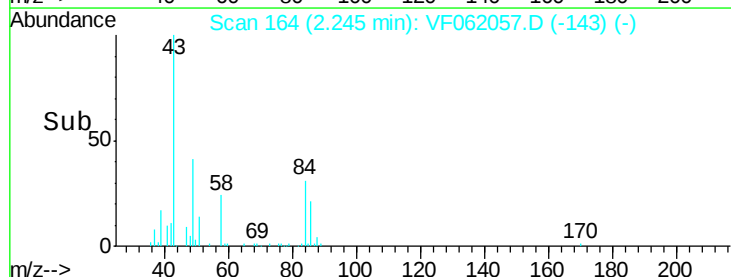
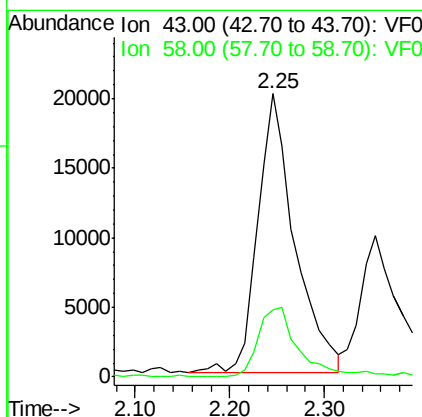
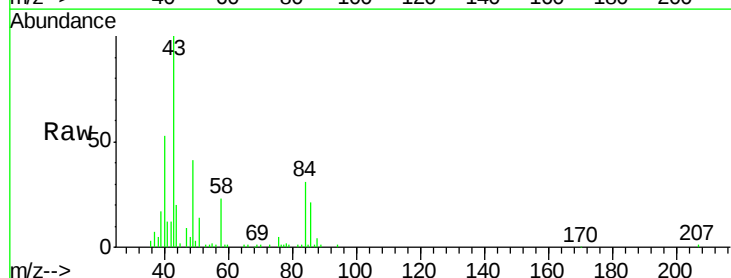
RT: 2.25 min Scan# 164

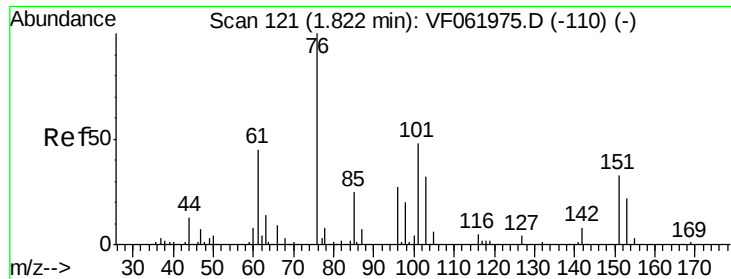
Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Tgt Ion:	43	Resp:	54767
Ion	Ratio	Lower	Upper
43	100		
58	23.5	19.9	29.9





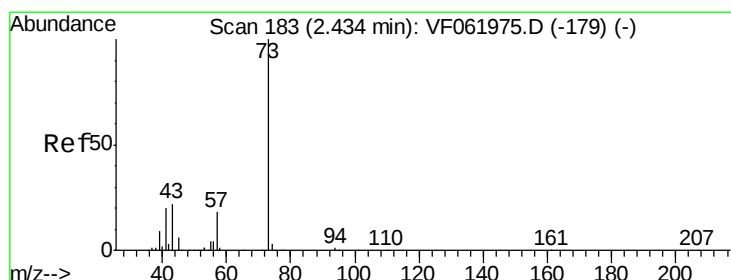
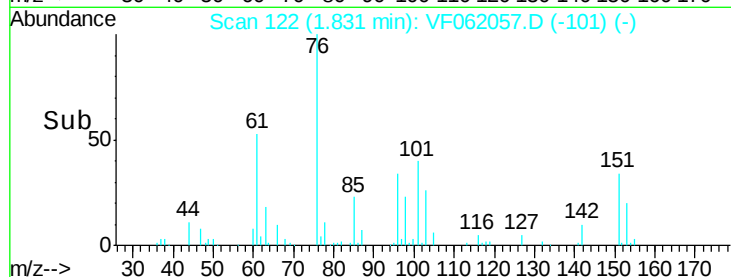
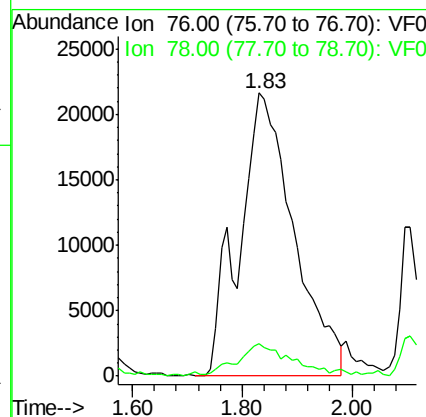
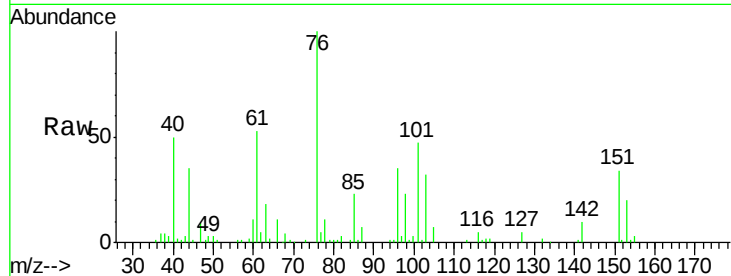
#17
Carbon Disulfide
Concen: 20.954 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBSD01

Tot Ion: 76 Resp: 150610
Ion Ratio Lower Upper
76 100
78 11.4 6.8 10.2#

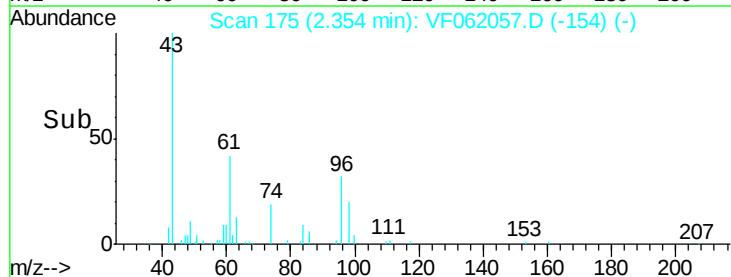
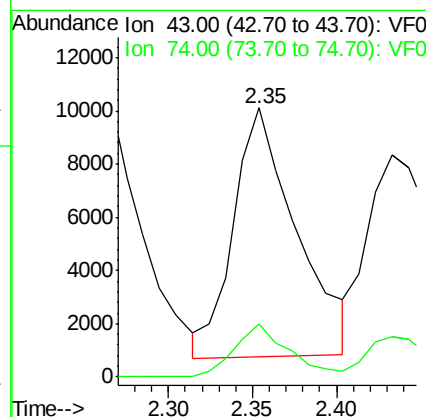
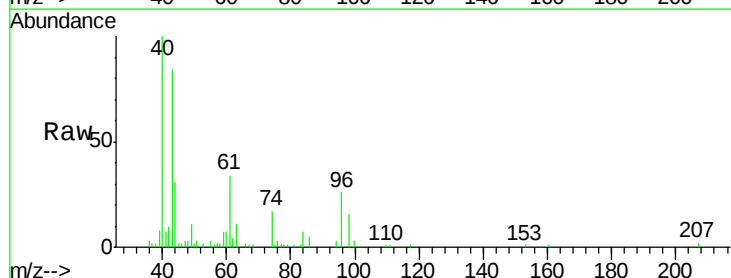
Manual Integrations
APPROVED

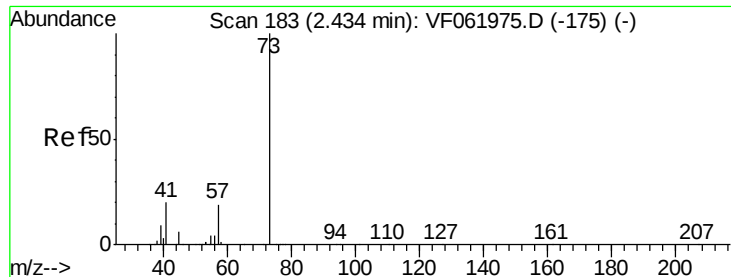
MMDadoda
3/23/2019 2:59:14 AM



#18
Methyl Acetate
Concen: 22.590 ug/l
RT: 2.35 min Scan# 175
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion: 43 Resp: 24379
Ion Ratio Lower Upper
43 100
74 19.7 18.3 27.5





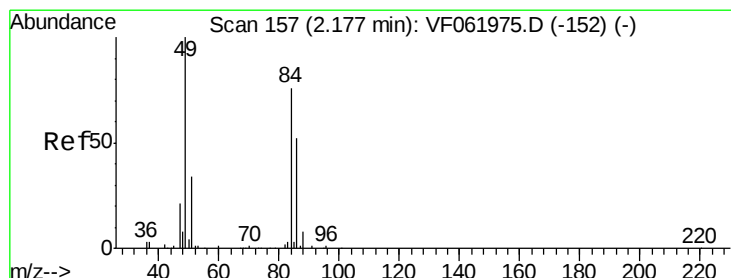
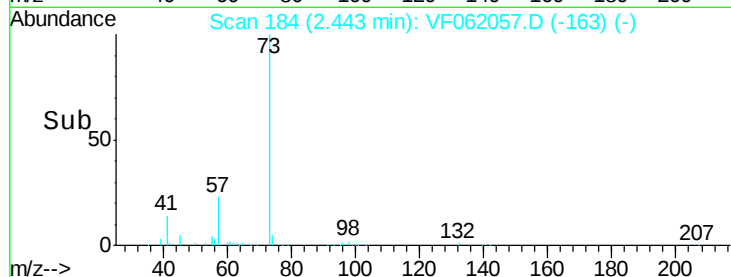
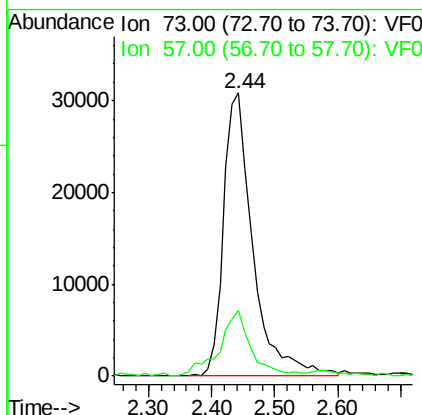
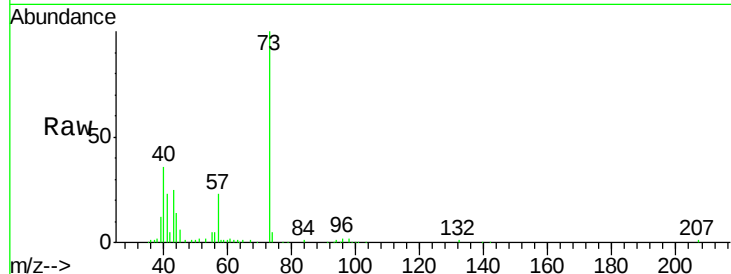
#19
Methvl tert-butvl Ether
Concen: 22.078 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion: 73 Resp: 99477
Ion Ratio Lower Upper
73 100
57 23.2 15.3 22.9#

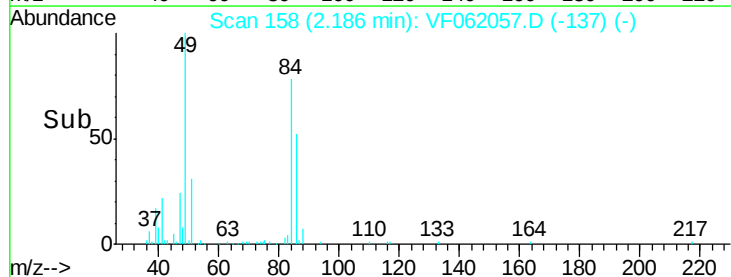
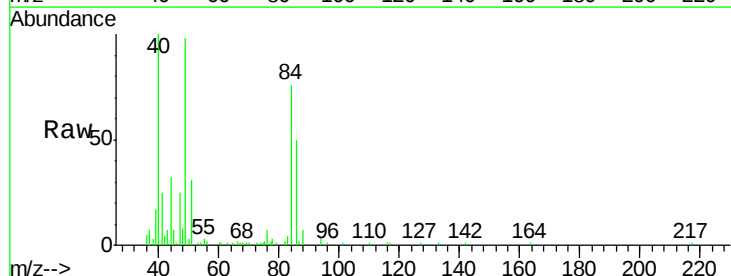
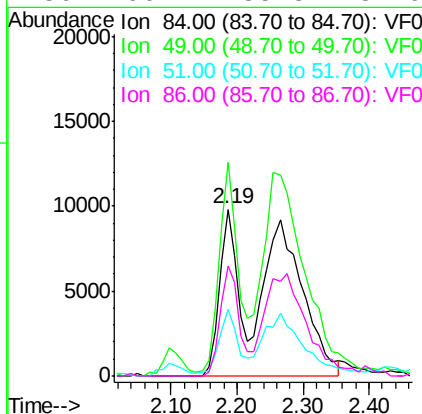
Manual Integrations
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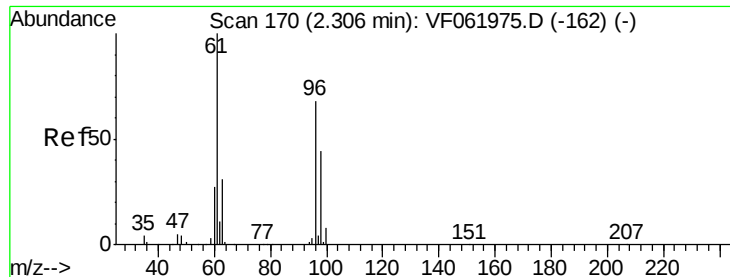
MMDadoda
3/23/2019 2:59:14 AM



#20
Methylene Chloride
Concen: 22.803 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion: 84 Resp: 56658
Ion Ratio Lower Upper
84 100
49 128.3 107.0 160.6
51 40.2 37.2 55.8
86 66.1 55.3 82.9





#21

trans-1,2-Dichloroethene

Concen: 22.255 ug/l m

RT: 2.31 min Scan# 171

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 96 Resp: 57749

Ion Ratio Lower Upper

96 100

61 135.9 117.4 176.2

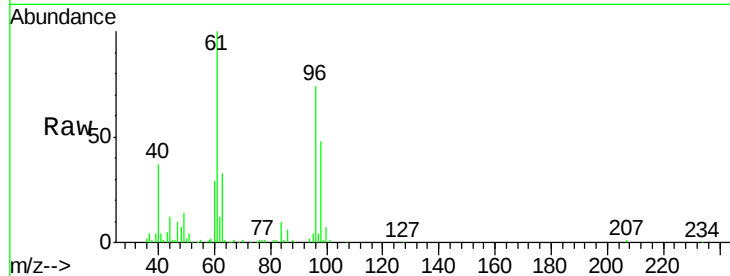
98 64.9 51.2 76.8

Manual Integrations

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3/23/2019 2:59:14 AM

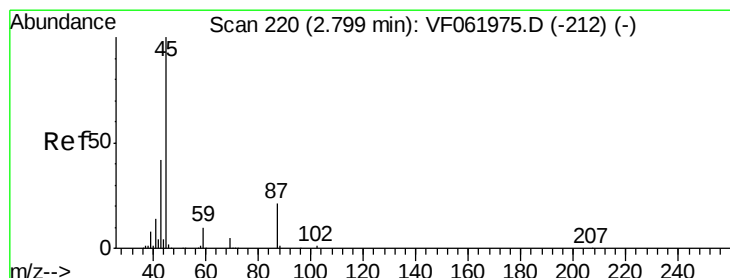
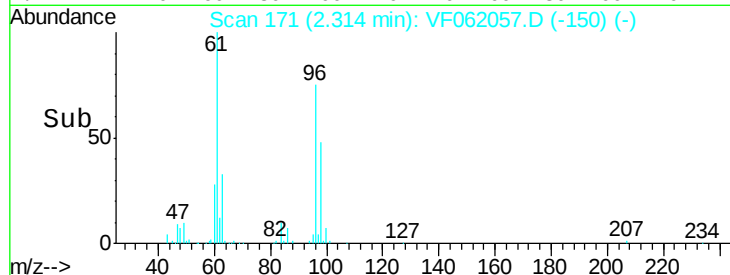
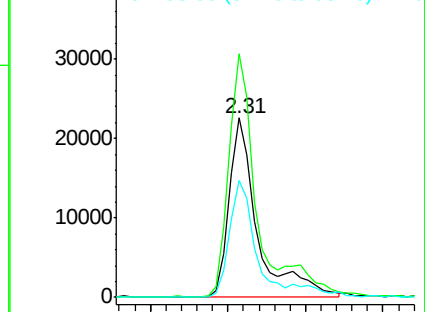


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 23.040 ug/l

RT: 2.81 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Tgt Ion: 45 Resp: 175903

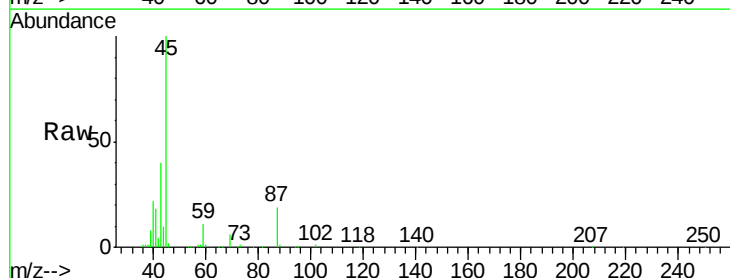
Ion Ratio Lower Upper

45 100

43 39.6 33.7 50.5

87 19.4 17.1 25.7

59 11.2 8.0 12.0



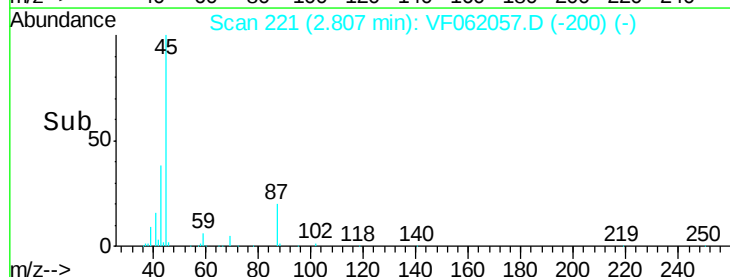
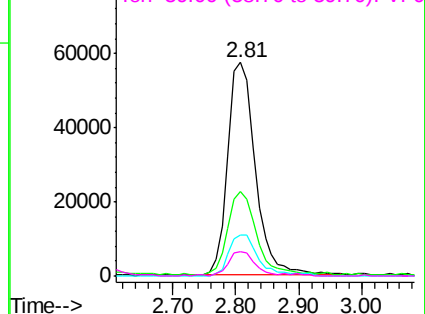
Abundance

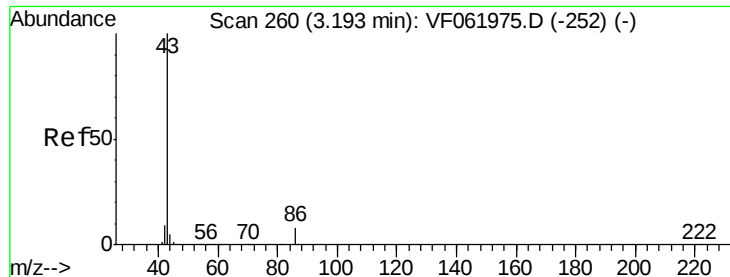
Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 122.091 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 43 Resp: 367453

Ion Ratio Lower Upper

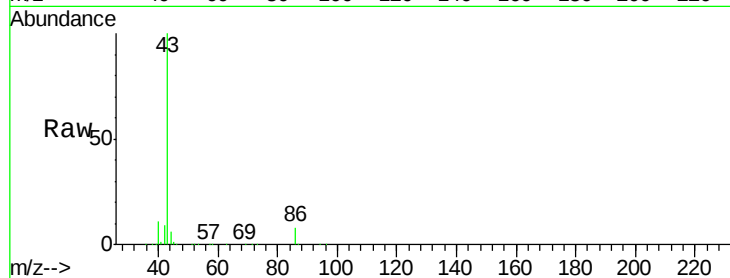
43 100

86 7.8 6.5 9.7

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MMDadoda

3/23/2019 2:59:14 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.19

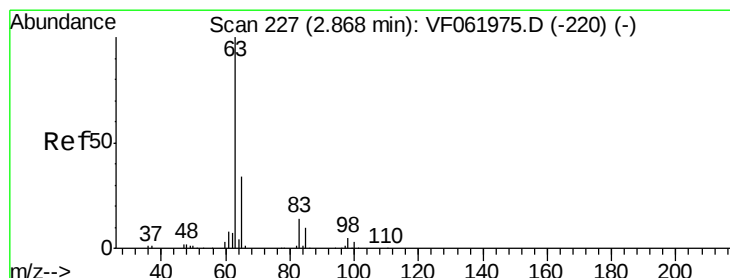
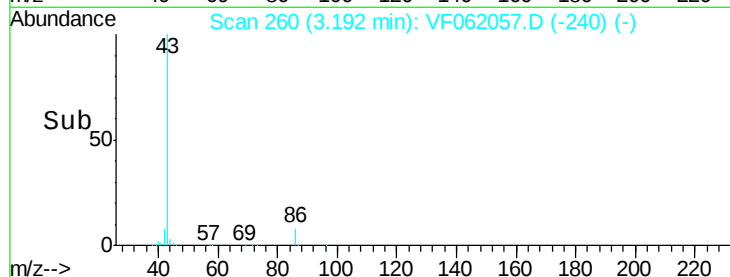
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 23.186 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

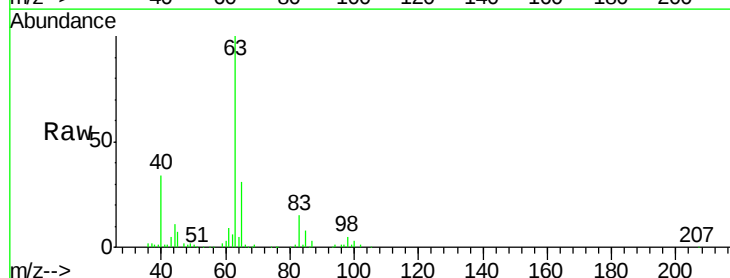
Tgt Ion: 63 Resp: 102927

Ion Ratio Lower Upper

63 100

98 5.0 2.7 8.1

100 3.2 1.7 5.0



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

2.88

50000

40000

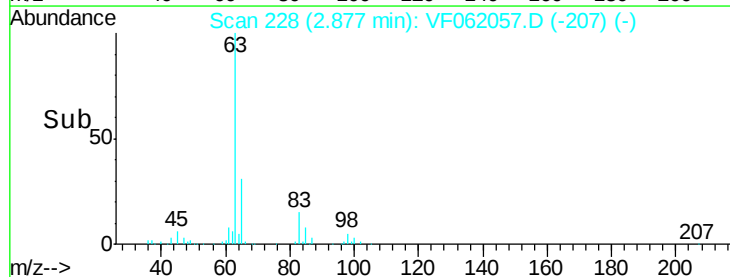
30000

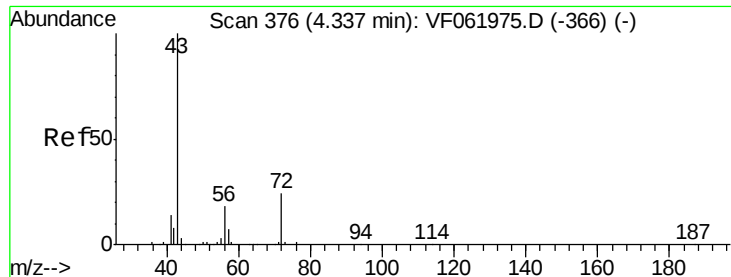
20000

10000

0

Time-->





#25

2-Butanone

Concen: 115.496 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 43 Resp: 108929

Ion Ratio Lower Upper

43 100

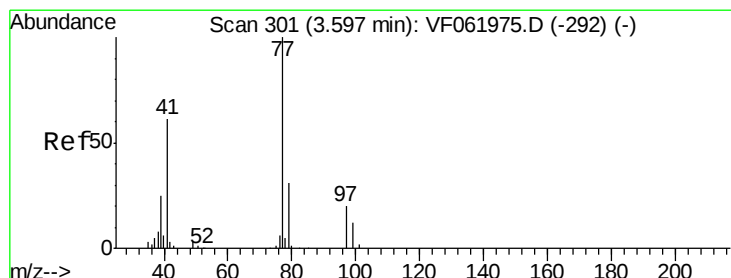
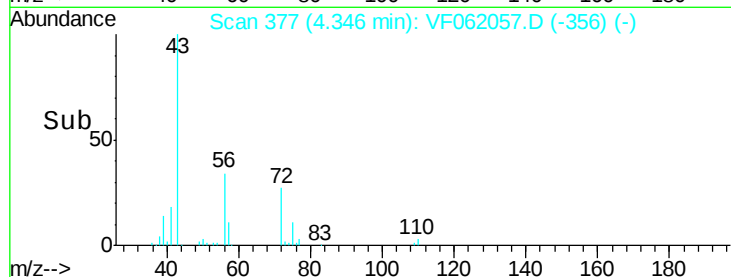
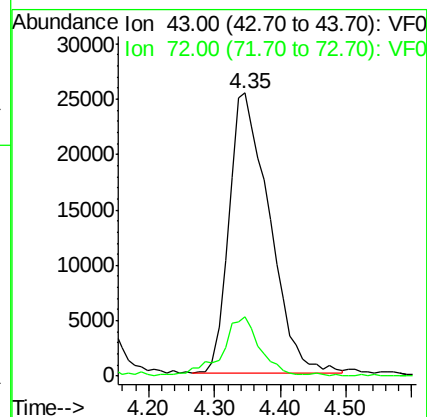
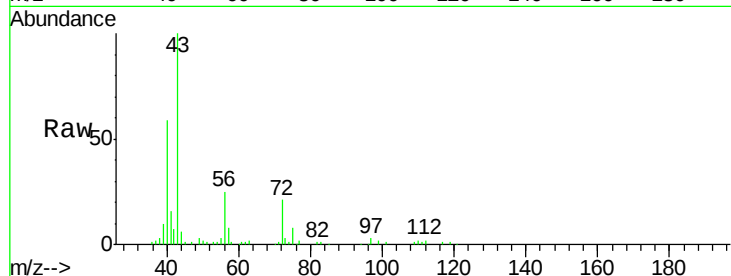
72 21.1 19.8 29.6

Manual Integrations

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3/23/2019 2:59:14 AM



#26

2,2-Dichloropropane

Concen: 20.304 ug/l

RT: 3.61 min Scan# 302

Delta R.T. 0.01 min

Lab File: VF062057.D

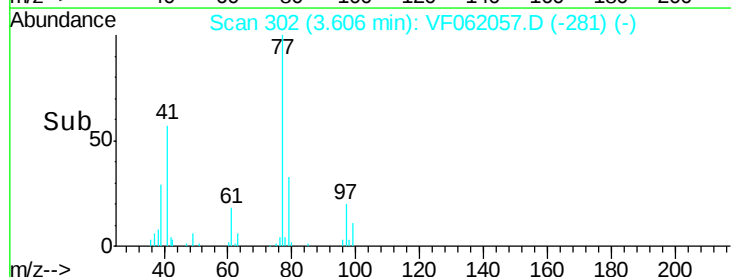
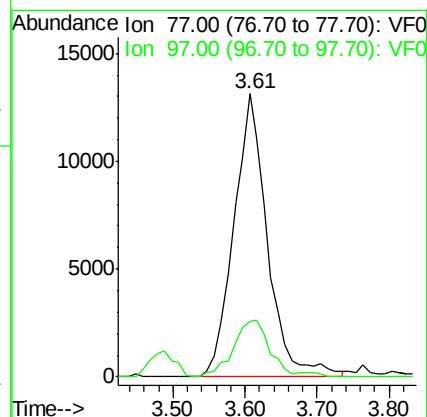
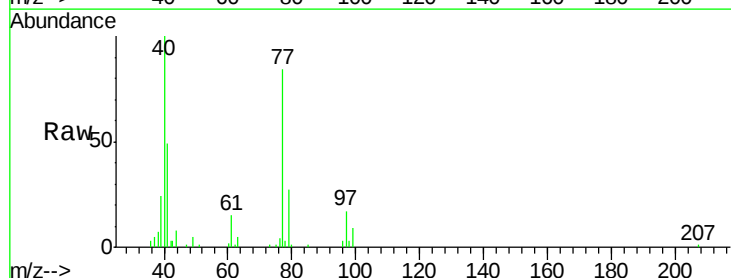
Acq: 21 Mar 2019 13:33

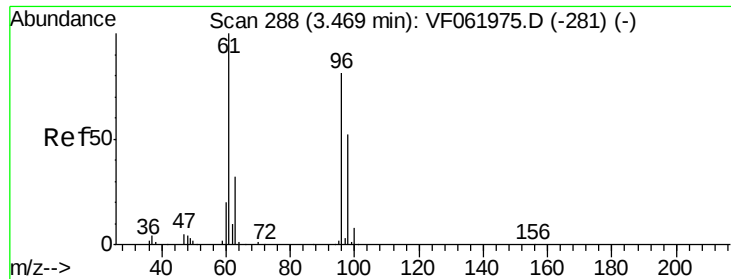
Tgt Ion: 77 Resp: 42515

Ion Ratio Lower Upper

77 100

97 19.8 10.8 32.4





#27

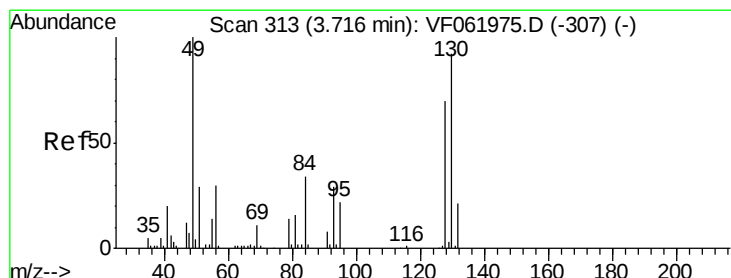
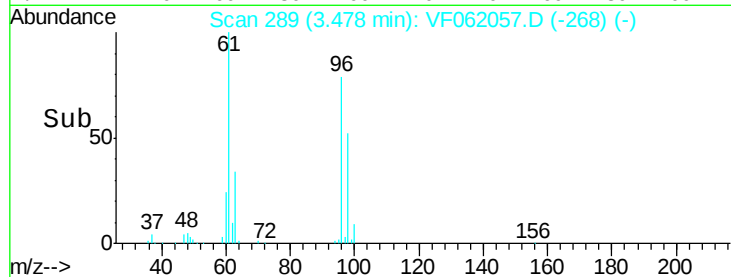
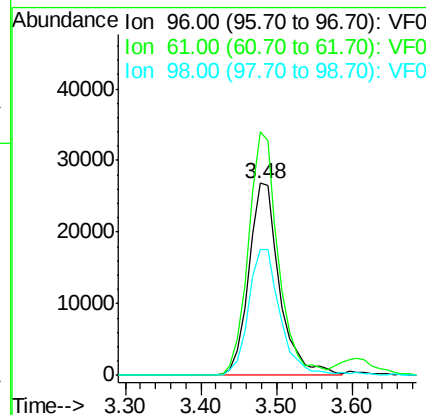
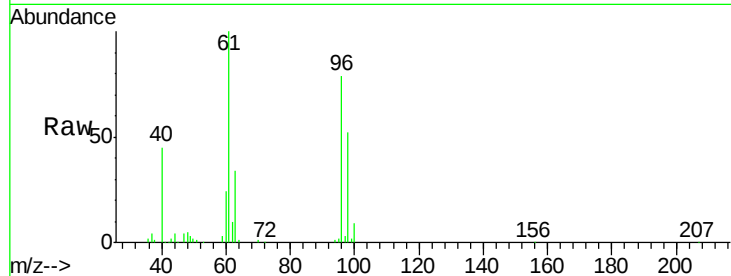
cis-1,2-Dichloroethene
 Concen: 23.163 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	75755		
61	126.6		0.0	246.6
98	65.5		0.0	129.2

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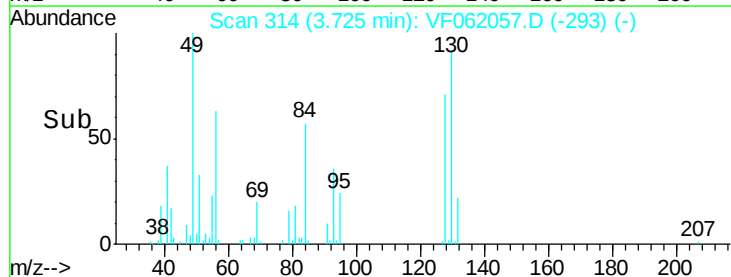
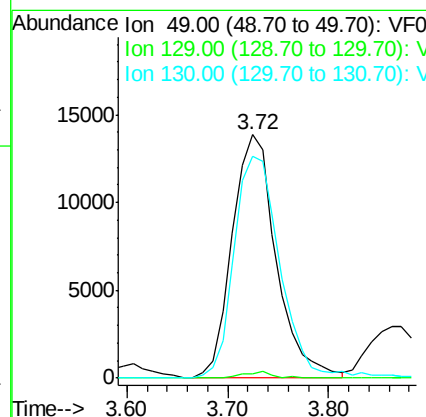
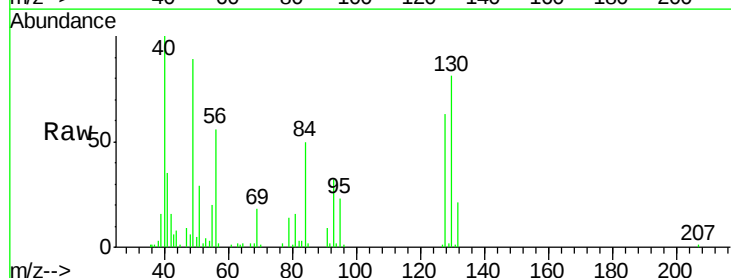
MMDadoda
 3/23/2019 2:59:14 AM

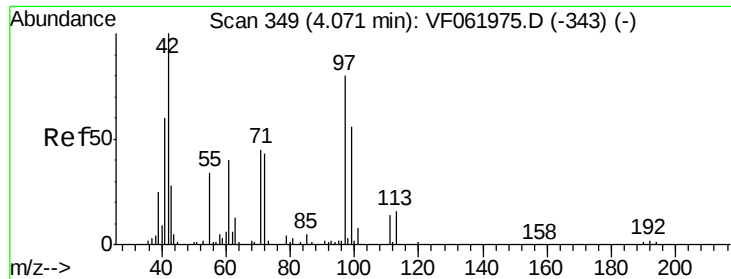


#28

Bromochloromethane
 Concen: 22.959 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	42290		
129	2.0		0.0	5.8
130	90.9		73.1	109.7





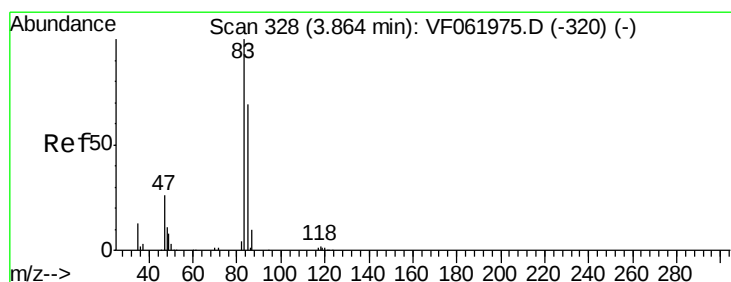
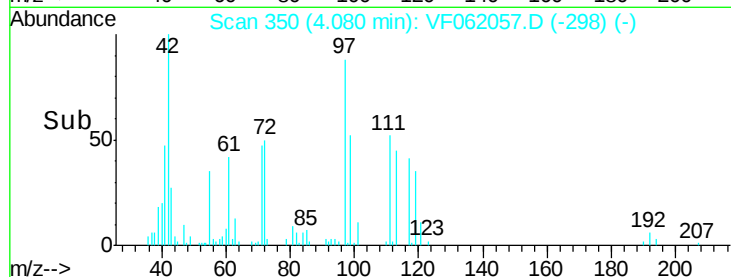
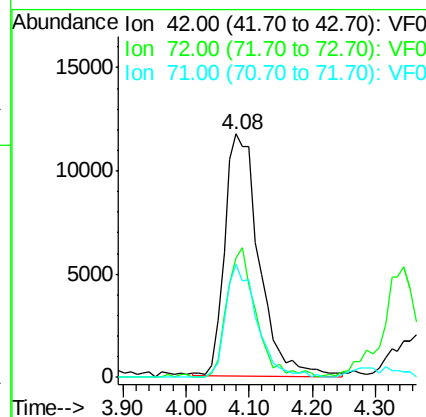
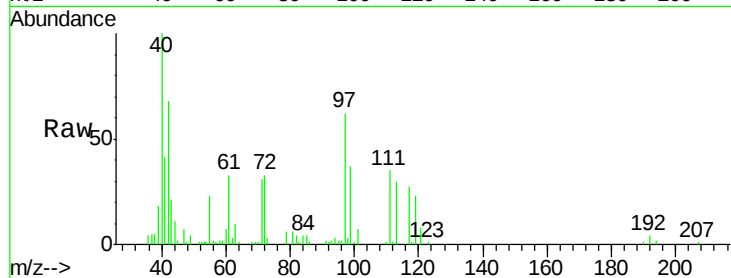
#29
Tetrahydrofuran
Concen: 108.193 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	34.0	51.0
71	42.3	34.2	51.4

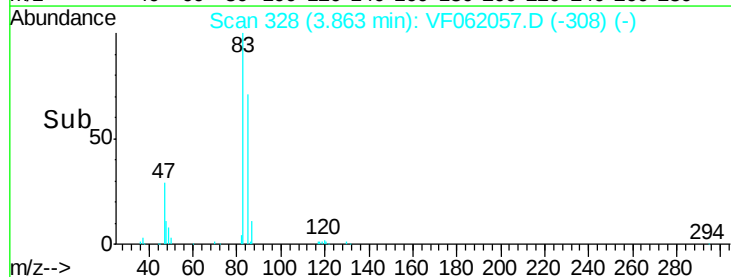
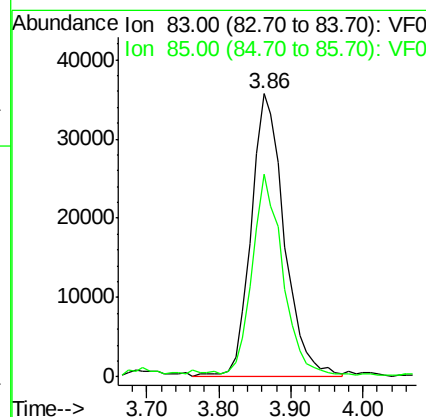
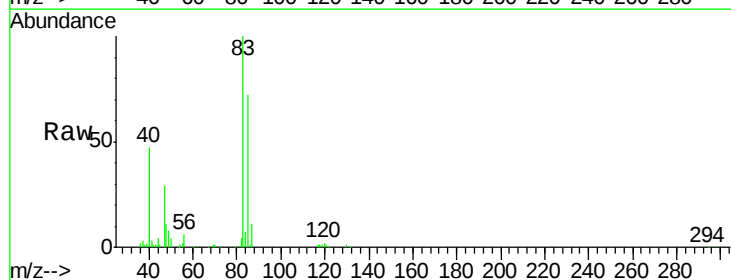
Manual Integrations
APPROVED

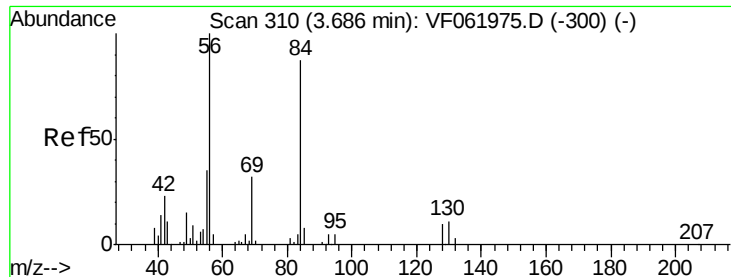
MMDadoda
3/23/2019 2:59:14 AM



#30
Chloroform
Concen: 22.913 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	71.5	55.5	83.3





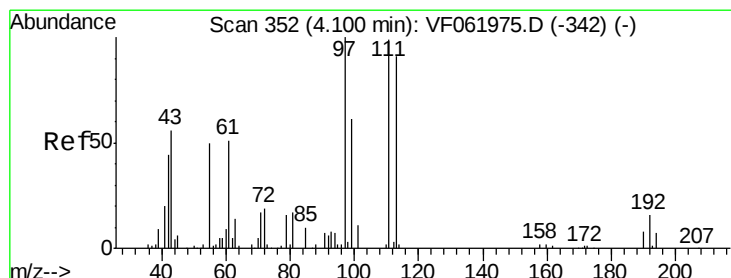
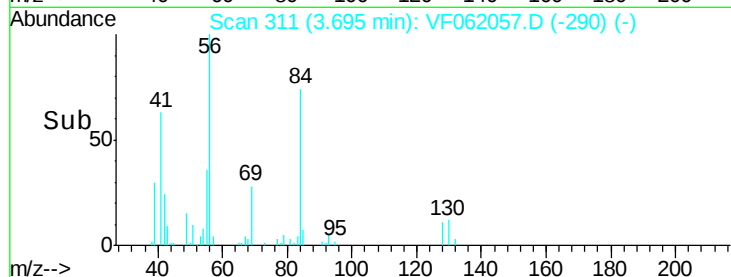
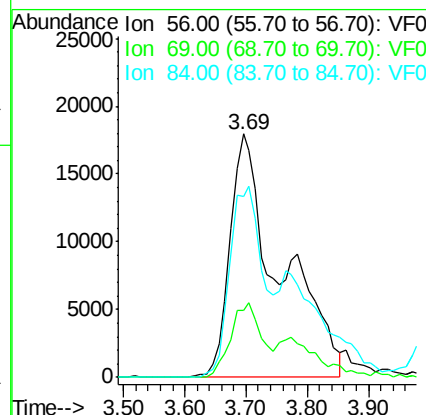
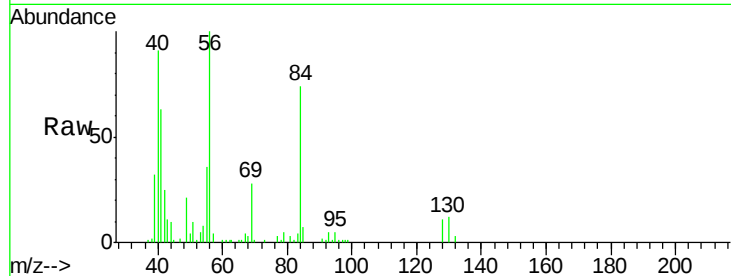
#31
Cyclohexane
Concen: 23.186 ug/l m
RT: 3.69 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.6	25.8	38.8
84	74.3	69.5	104.3

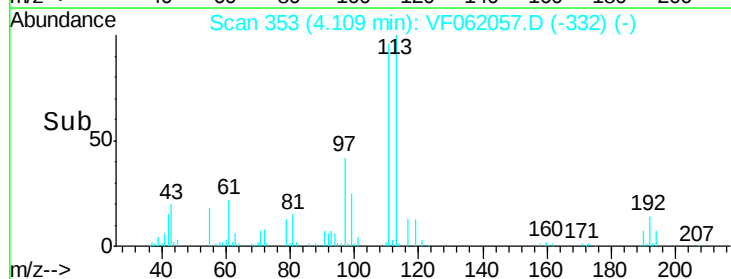
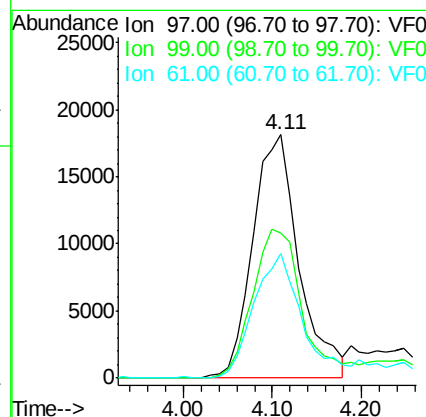
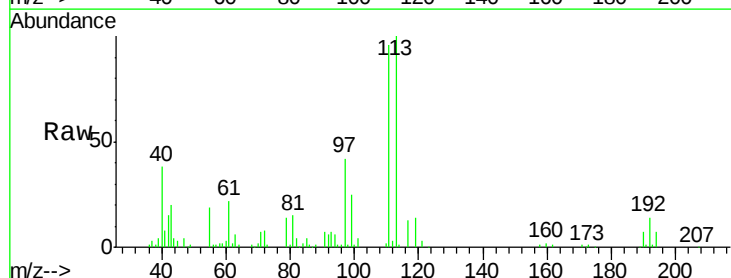
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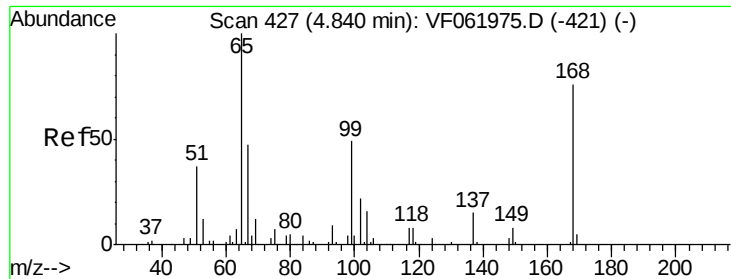
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 19.469 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.3	49.0	73.4
61	51.2	41.4	62.0





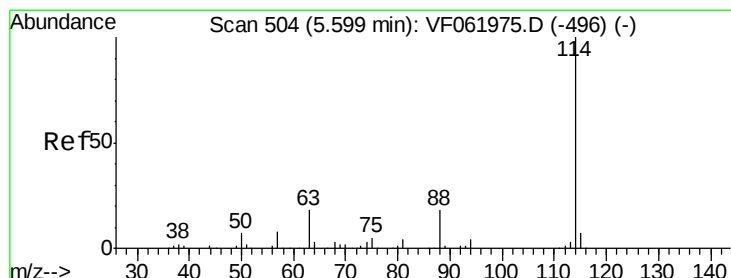
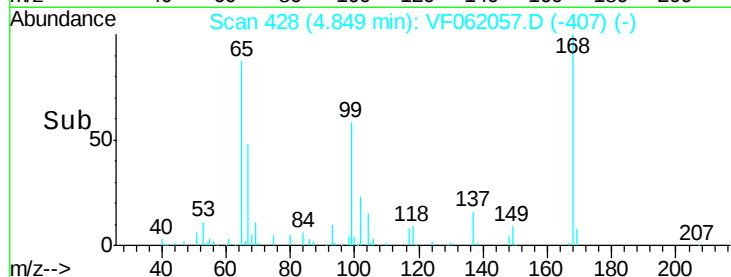
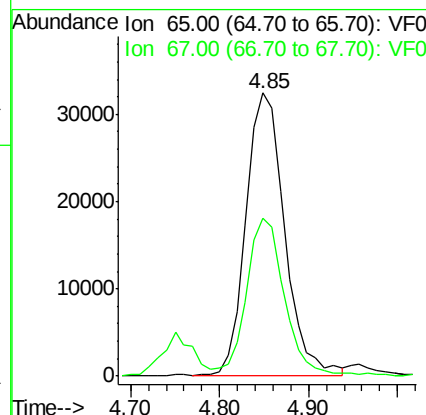
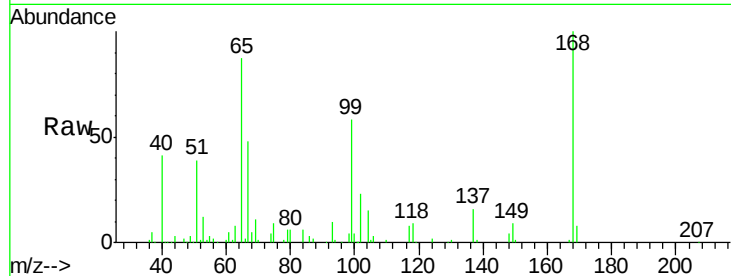
#33
 1,2-Dichloroethane-d4
 Concen: 45.681 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.7	0.0	109.4

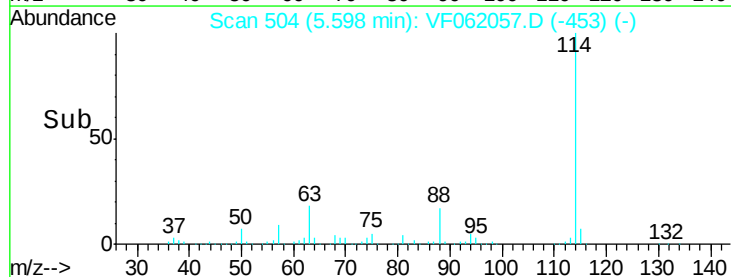
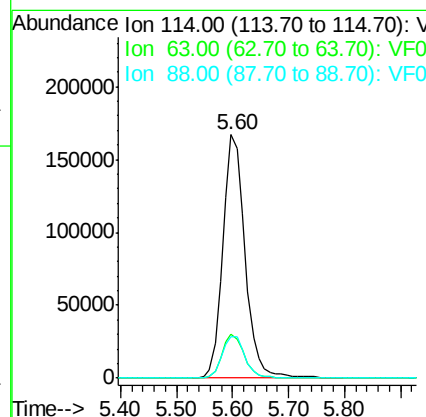
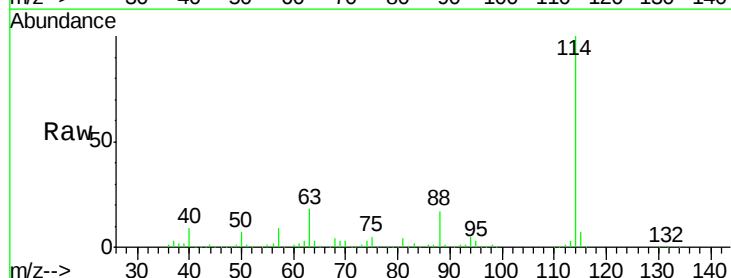
Manual Integrations
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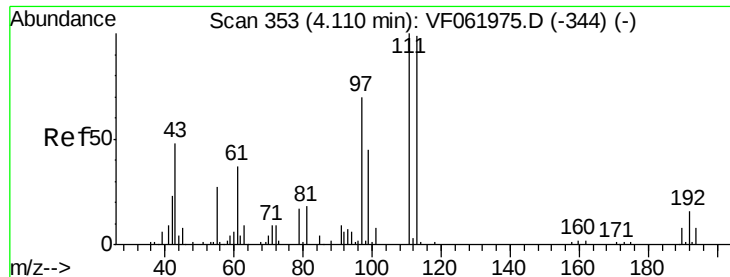
MMDadoda
 3/23/2019 2:59:14 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	36.4
88	16.9	0.0	36.4





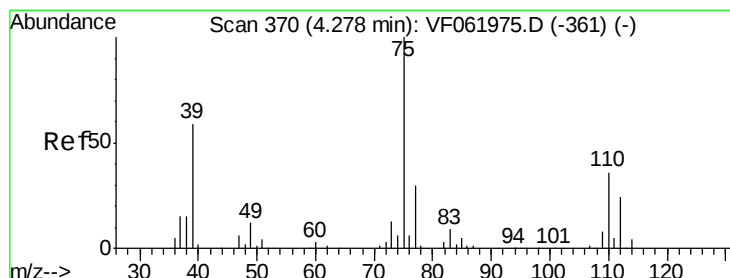
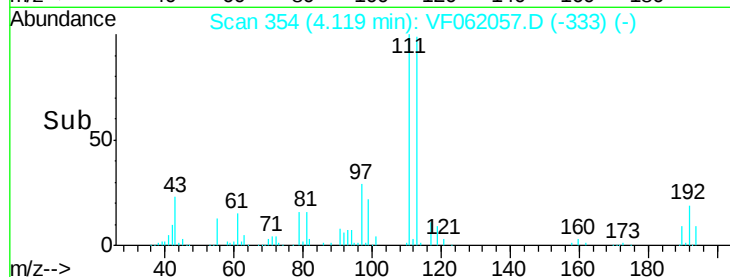
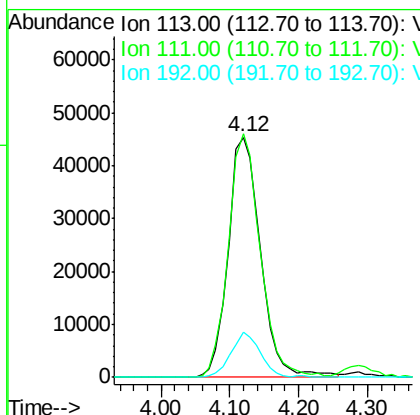
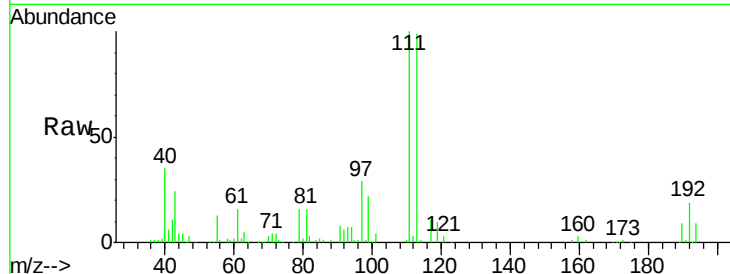
#35
 Dibromofluoromethane
 Concen: 47.396 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	147818		
111	101.4	80.8	121.2	
192	19.1	13.0	19.6	

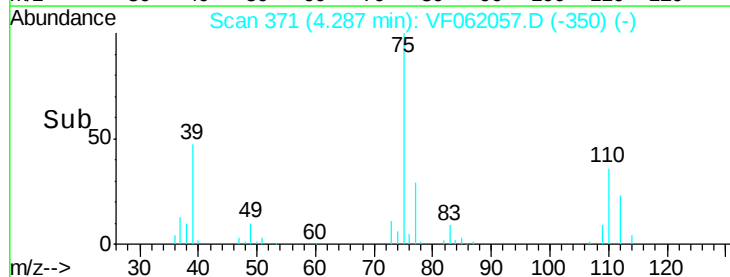
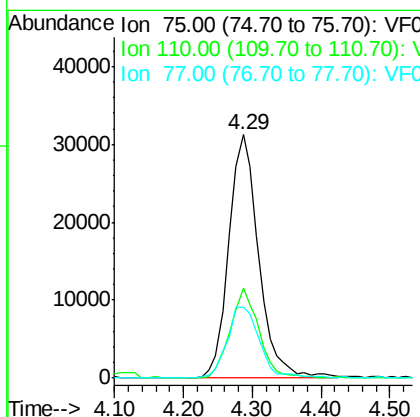
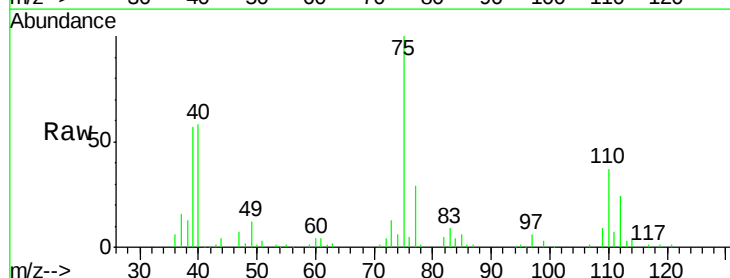
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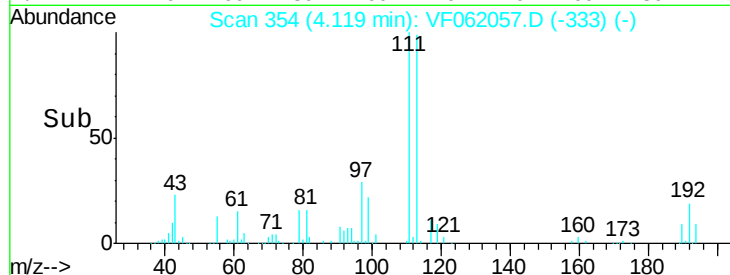
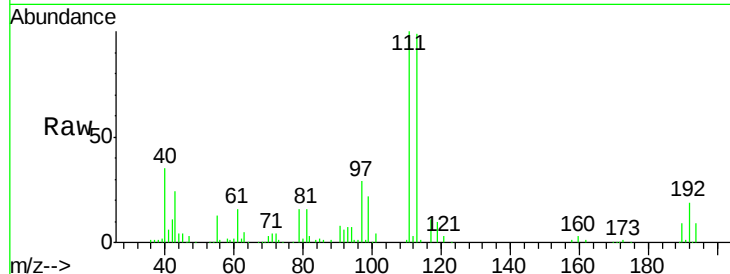
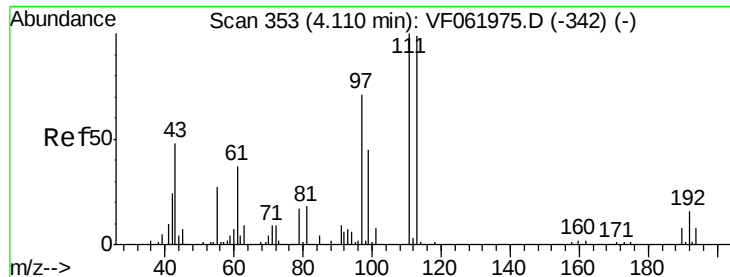
MMDadoda
 3/23/2019 2:59:14 AM



#36
 1,1-Dichloropropene
 Concen: 22.488 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	94316		
110	37.0	17.8	53.3	
77	29.3	24.2	36.2	





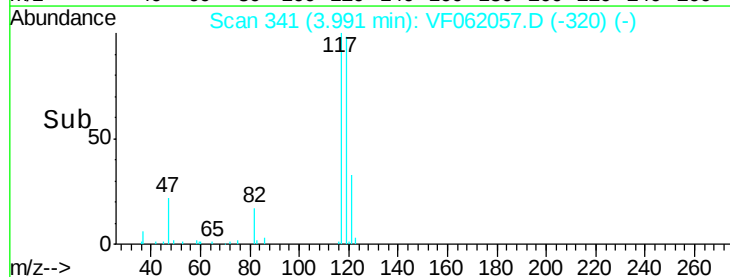
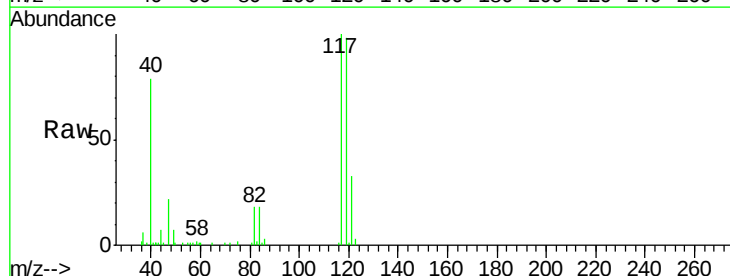
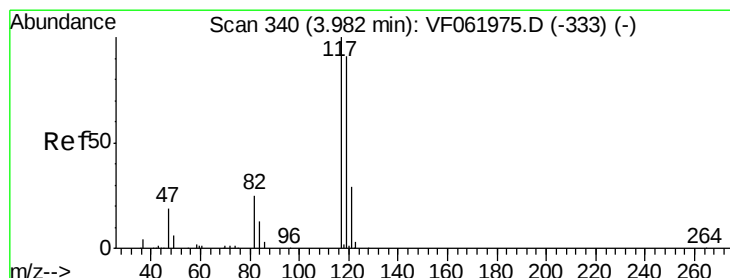
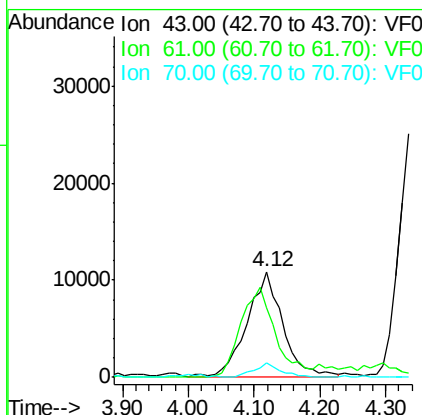
#37
Ethyl Acetate
Concen: 22.253 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	65.8	59.8				
70	13.2	7.8	11.8			

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

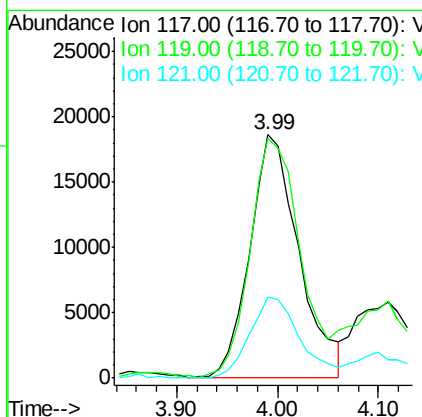
Manual Integrations
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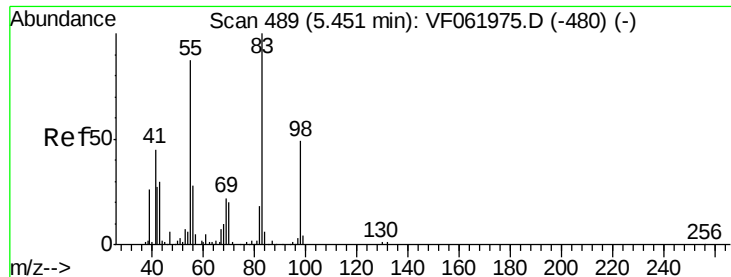
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3/23/2019 2:59:14 AM



#38
Carbon Tetrachloride
Concen: 20.675 ug/l
RT: 3.99 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	98.4	73.0				
121	33.4	23.0	34.6			





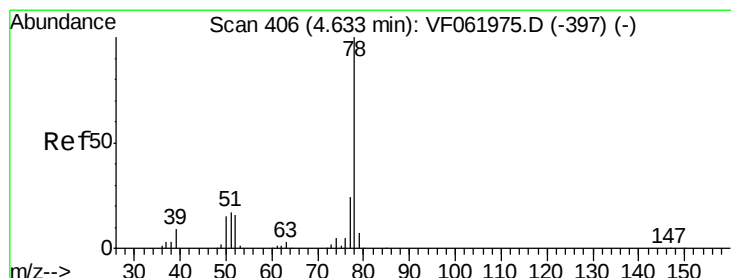
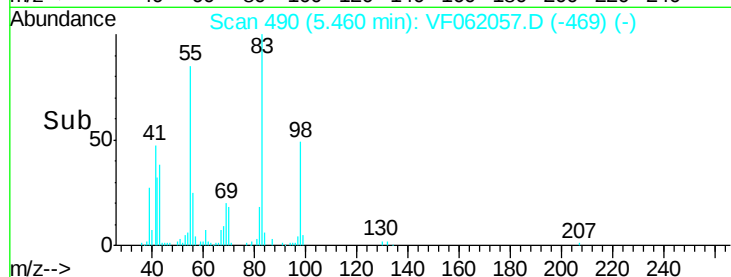
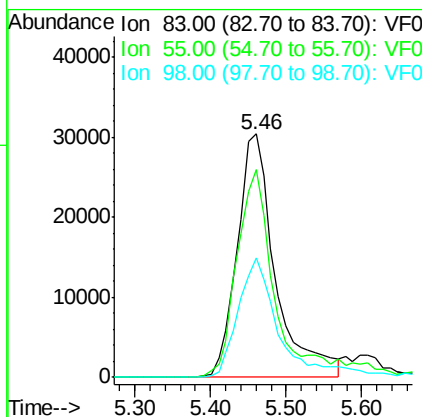
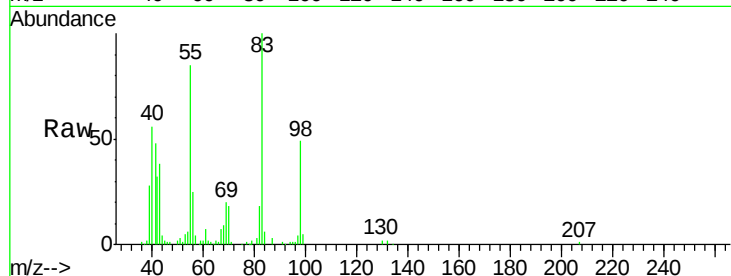
#39
Methvlcvclohexane
Concen: 21.757 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.3	69.7	104.5
98	49.3	39.4	59.0

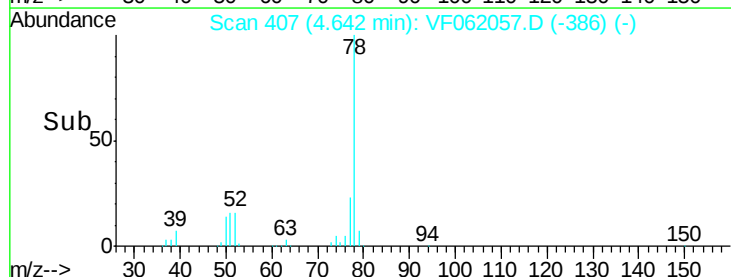
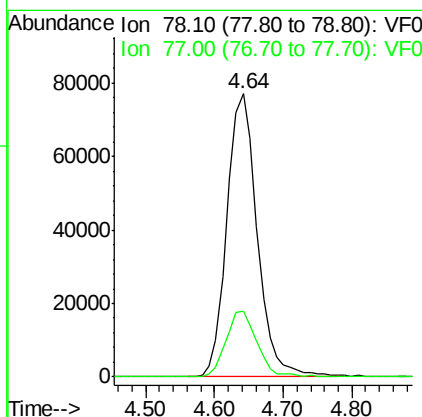
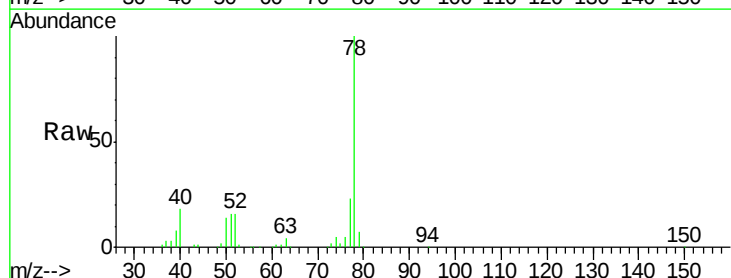
Manual Integrations
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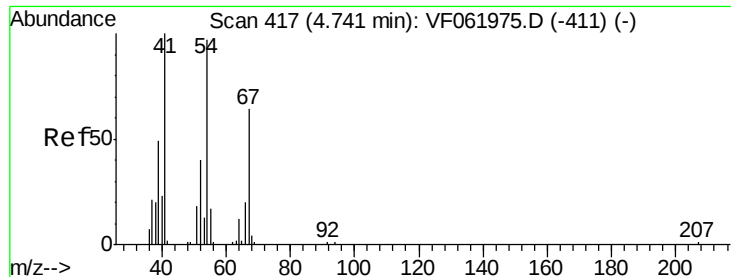
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3/23/2019 2:59:14 AM



#40
Benzene
Concen: 21.259 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4





#41

Methacrylonitrile

Concen: 20.716 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

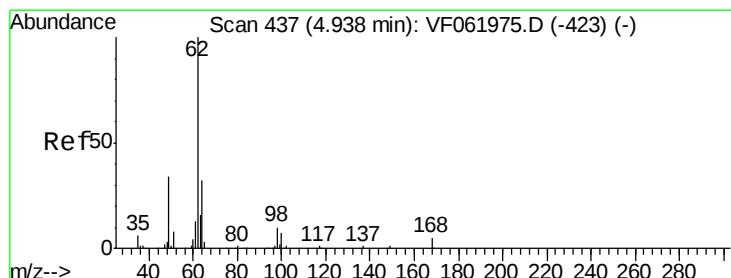
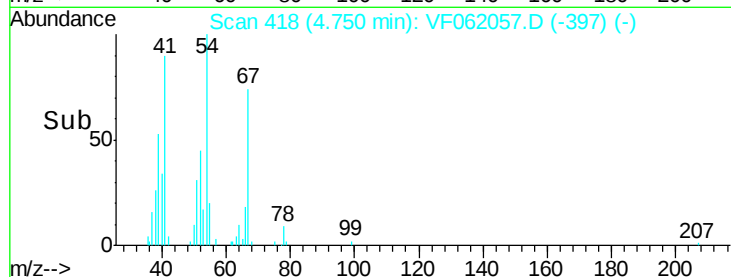
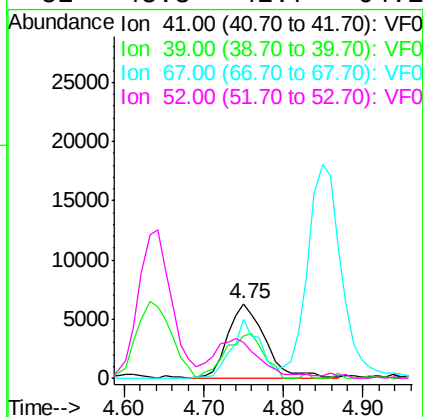
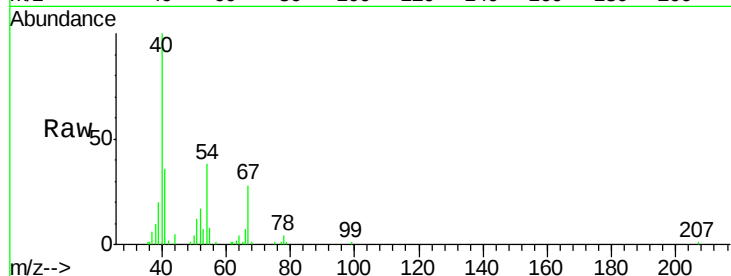
ClientSampleId :

VF0321SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		20843		
39	56.8	46.2	69.4		
67	79.6	49.8	74.8		
52	48.3	42.7	64.1		

Manual Integrations
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3/23/2019 2:59:14 AM



#42

1,2-Dichloroethane

Concen: 21.313 ug/l

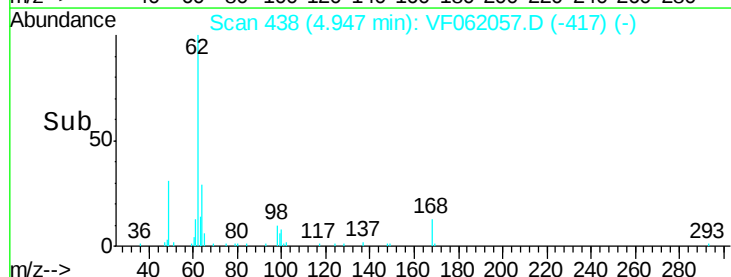
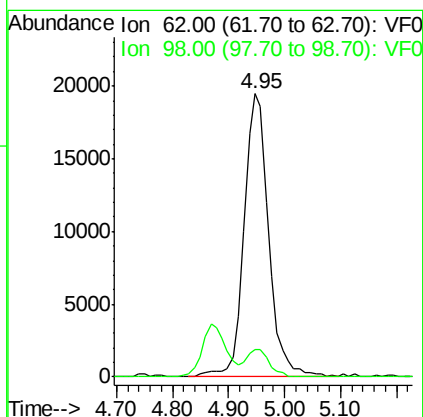
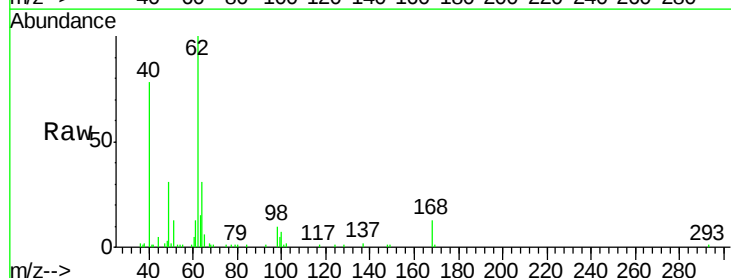
RT: 4.95 min Scan# 438

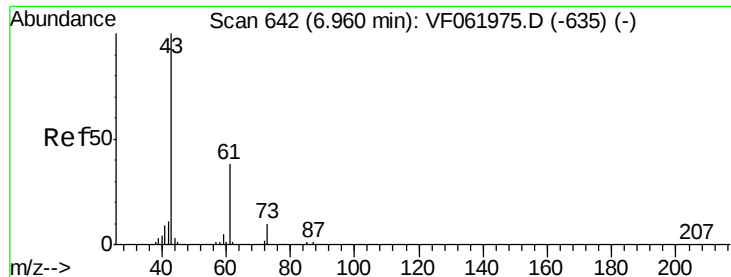
Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		58964		
98	9.7	0.0	19.8		





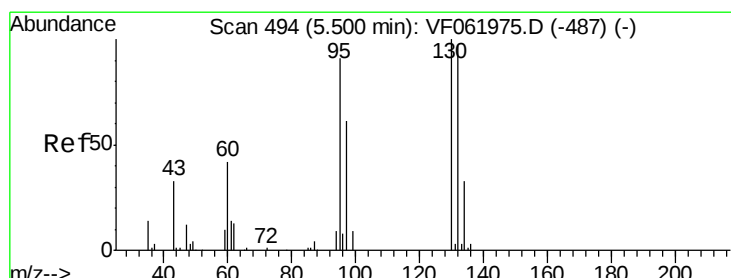
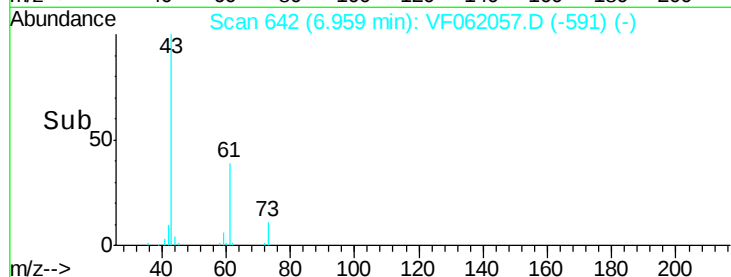
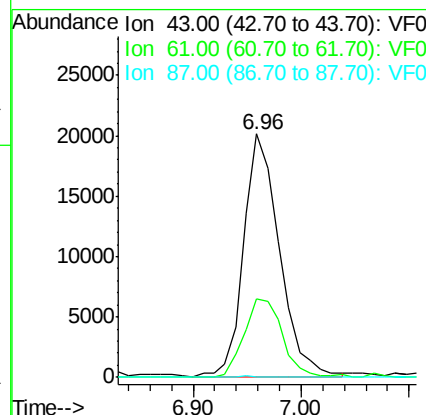
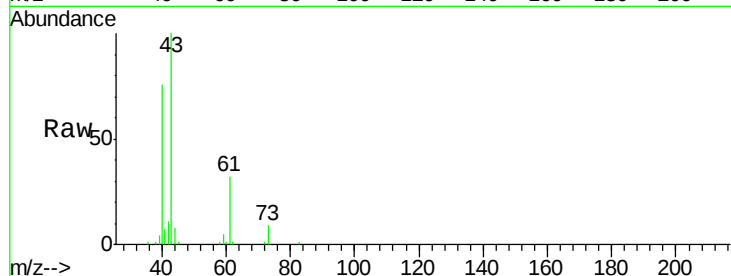
#43
Isopropyl Acetate
Concen: 20.912 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.4	30.1	45.1
87	0.0	0.4	0.6

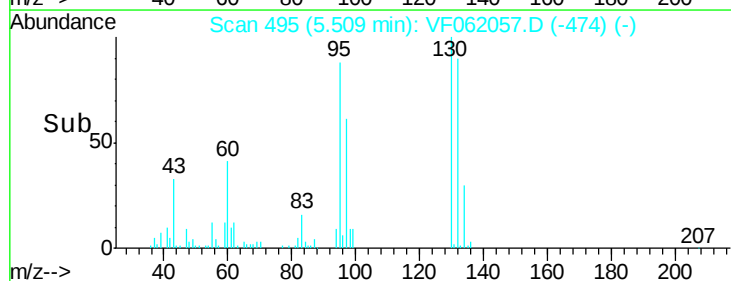
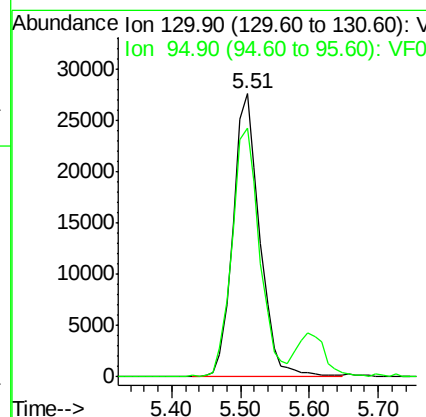
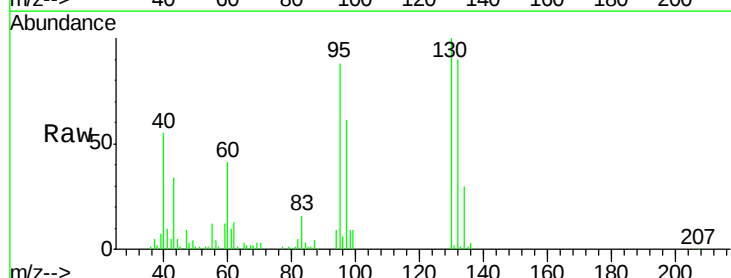
Manual Integrations
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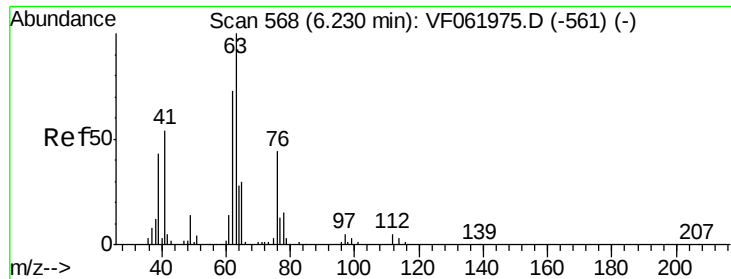
MMDadoda
3/23/2019 2:59:14 AM



#44
Trichloroethene
Concen: 21.759 ug/l
RT: 5.51 min Scan# 495
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.1	0.0	181.4





#45

1,2-Dichloropropane

Concen: 22.587 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBSD01

Tot Ion: 63 Resp: 59405

Ion Ratio Lower Upper

63 100

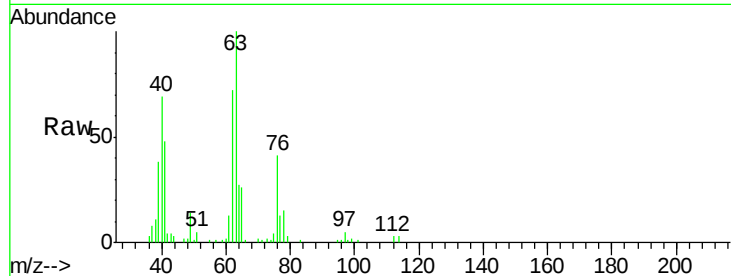
65 26.4 23.7 35.5

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.24

25000

20000

15000

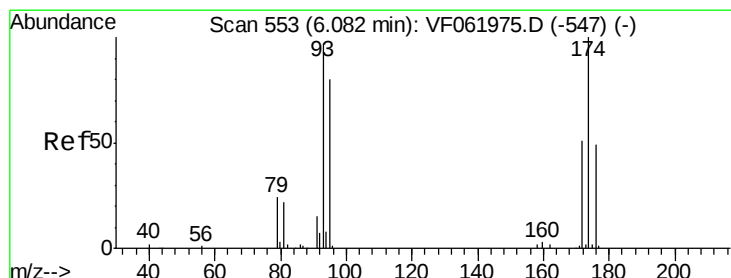
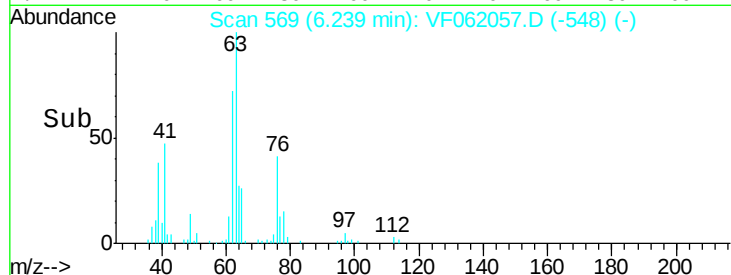
10000

5000

0

Time-->

6.10 6.20 6.30 6.40



#46

Dibromomethane

Concen: 22.063 ug/l

RT: 6.09 min Scan# 554

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

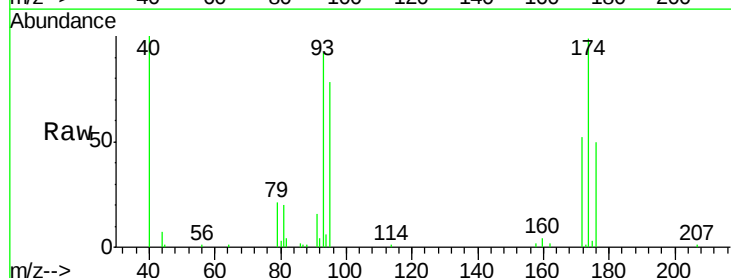
Tgt Ion: 93 Resp: 34519

Ion Ratio Lower Upper

93 100

95 84.5 65.7 98.5

174 107.5 82.2 123.4



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

15000

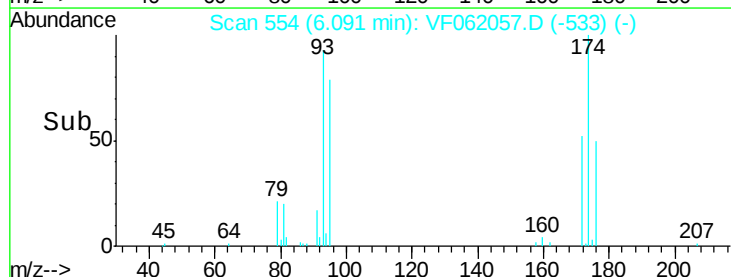
10000

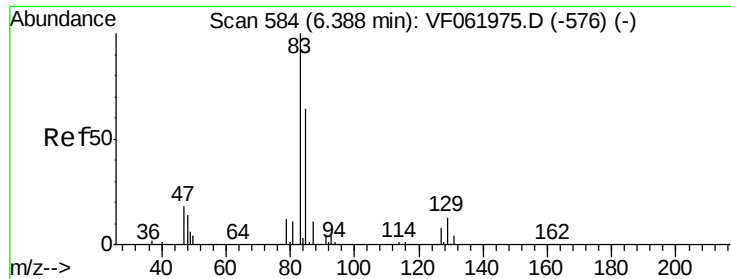
5000

0

Time-->

6.00 6.10 6.20 6.30





#47

Bromodichloromethane

Concen: 21.307 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

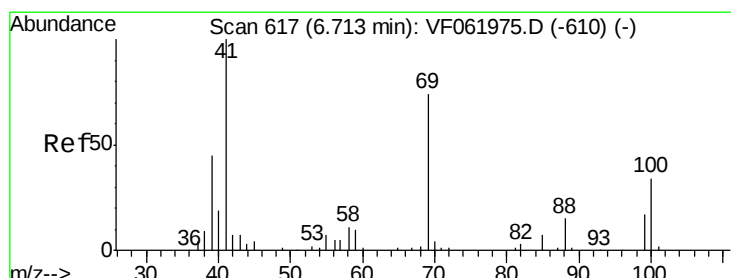
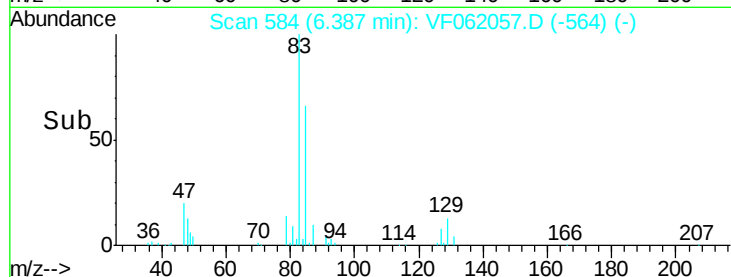
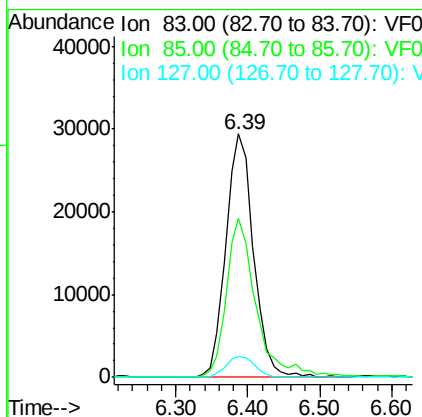
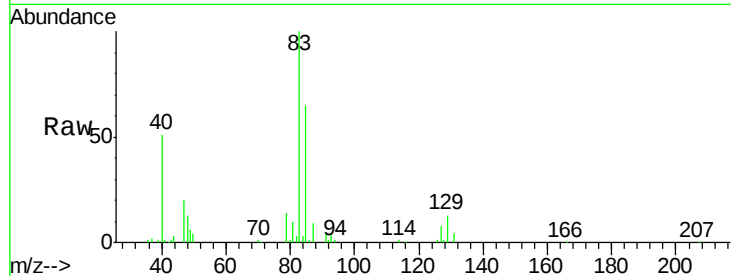
ClientSampleId :

VF0321SBS01

Tot Ion:	83	Resp:	78595
Ion Ratio	Lower	Upper	
83	100		
85	65.2	51.4	77.2
127	8.4	6.5	9.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.823 ug/l

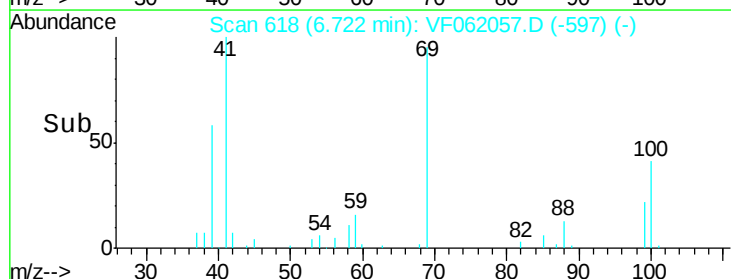
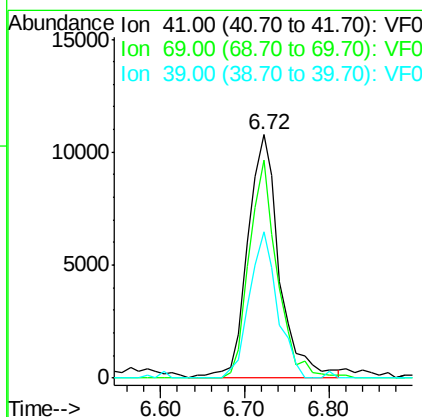
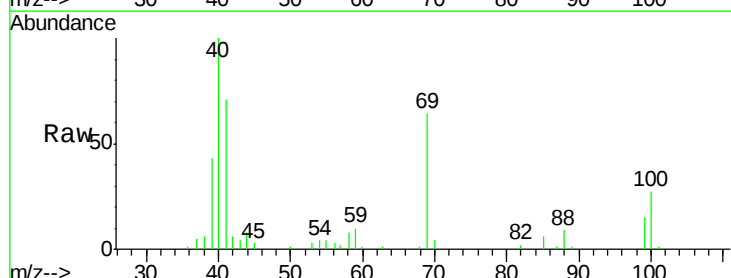
RT: 6.72 min Scan# 618

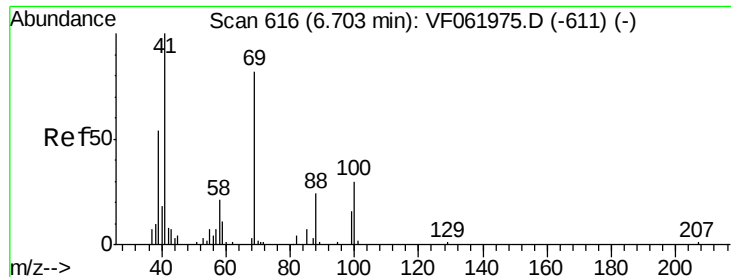
Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Tgt Ion:	41	Resp:	28546
Ion Ratio	Lower	Upper	
41	100		
69	89.5	59.0	88.6#
39	60.3	35.6	53.4#





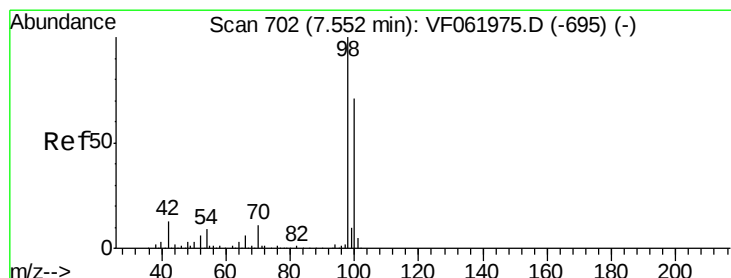
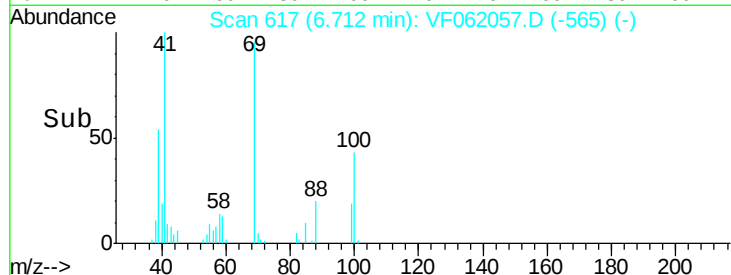
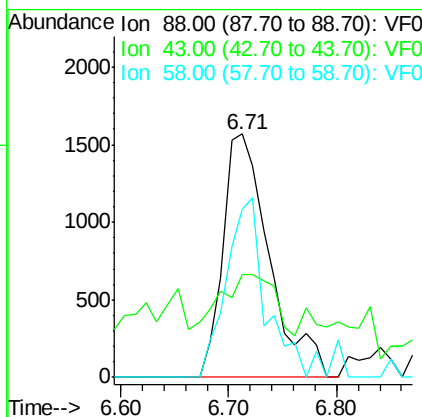
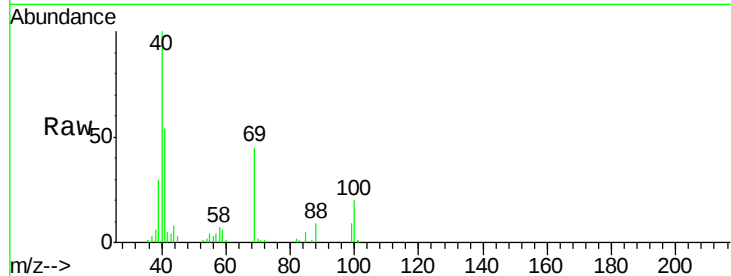
#49
1,4-Dioxane
Concen: 365.757 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	4685		
43	42.5		31.2	46.8
58	69.2		69.9	104.9#

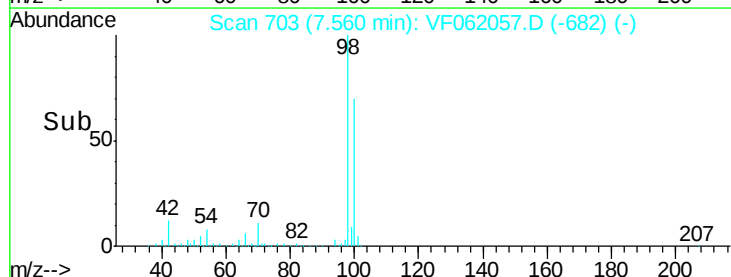
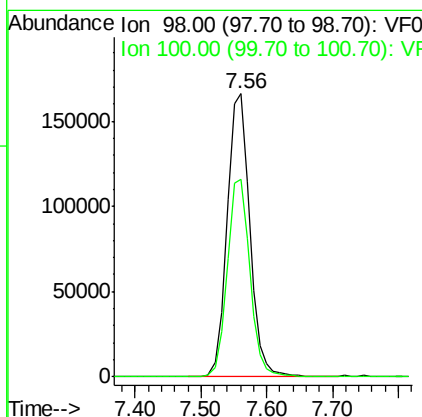
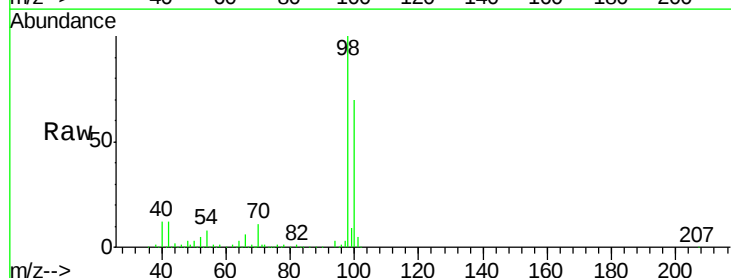
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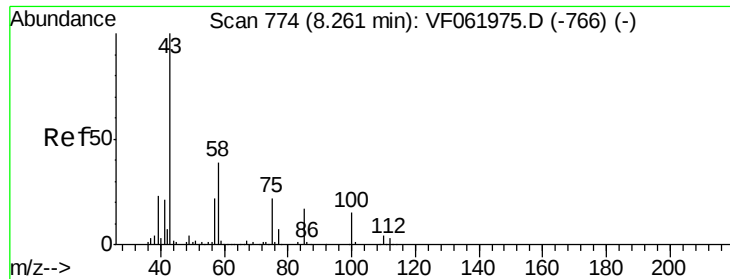
MMDadoda
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#50
Toluene-d8
Concen: 44.372 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	404549		
100	69.7		56.8	85.2





#51

4-Methyl-2-Pentanone

Concen: 110.422 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 43 Resp: 174712

Ion Ratio Lower Upper

43 100

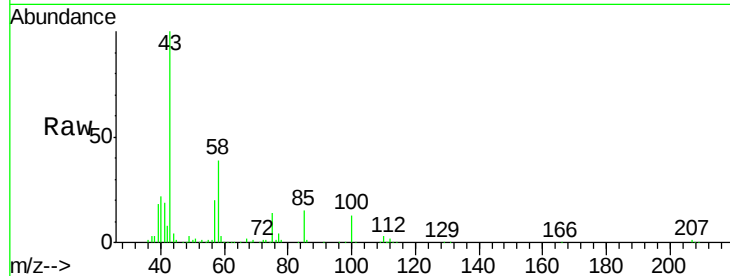
58 39.2 31.1 46.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

60000

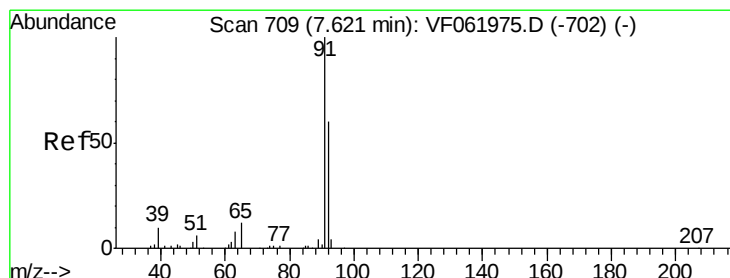
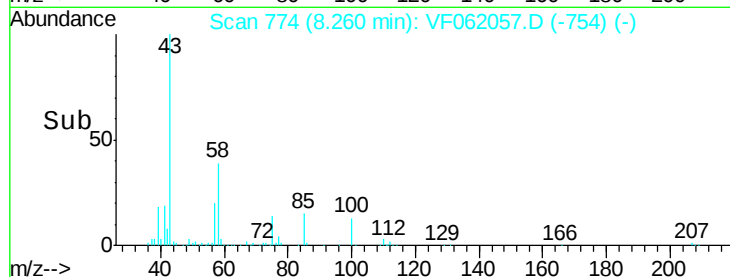
40000

20000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 21.006 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF062057.D

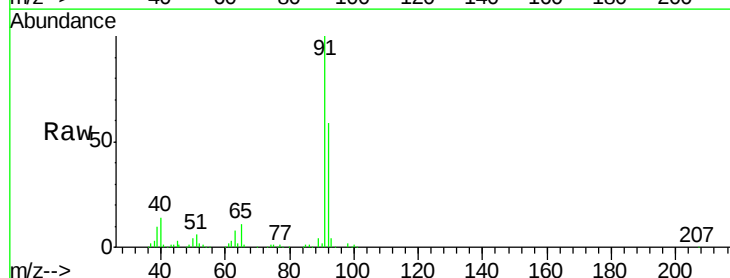
Acq: 21 Mar 2019 13:33

Tgt Ion: 92 Resp: 142639

Ion Ratio Lower Upper

92 100

91 170.1 134.0 201.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

120000

100000

80000

60000

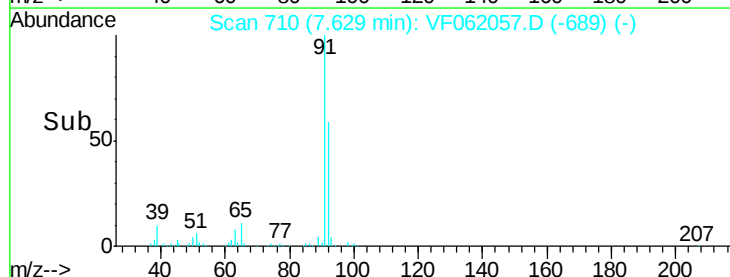
40000

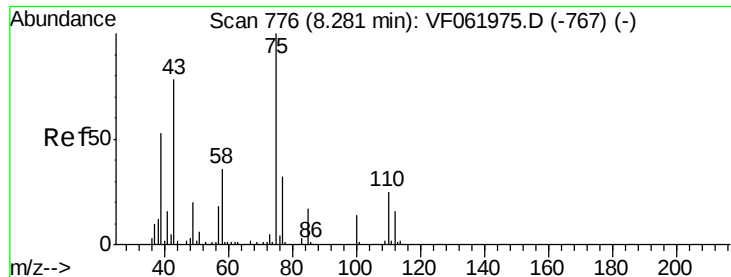
20000

0

7.50 7.60 7.70

Time-->





#53

t-1,3-Dichloropropene

Concen: 20.911 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 75 Resp: 65118

Ion Ratio Lower Upper

75 100

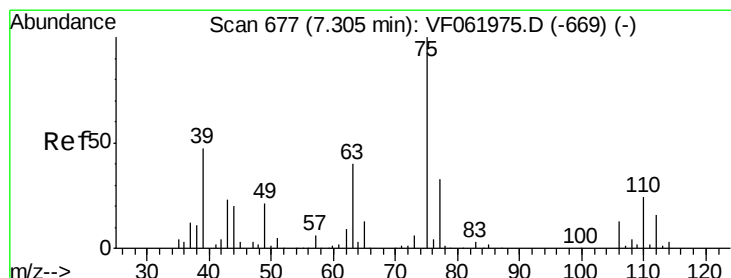
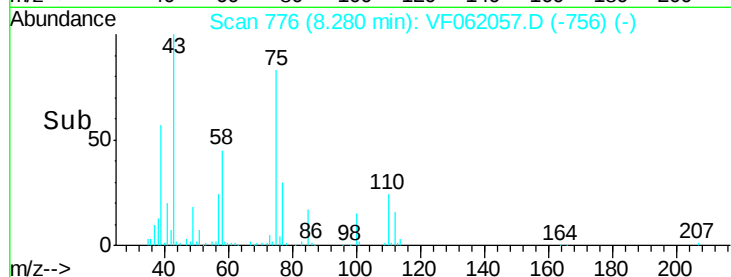
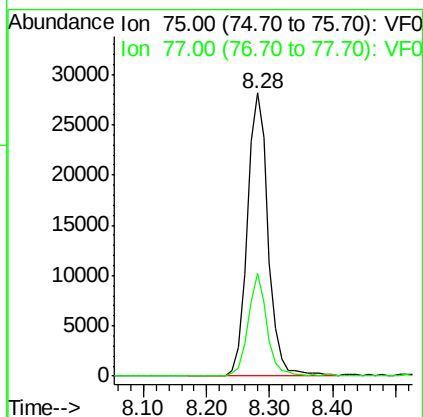
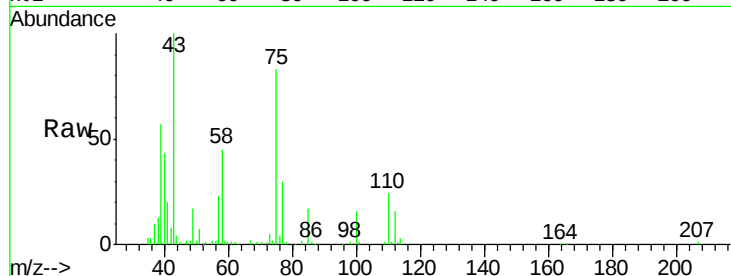
77 36.5 25.5 38.3

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 22.198 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

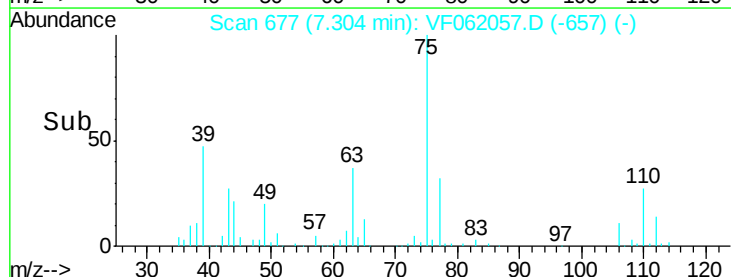
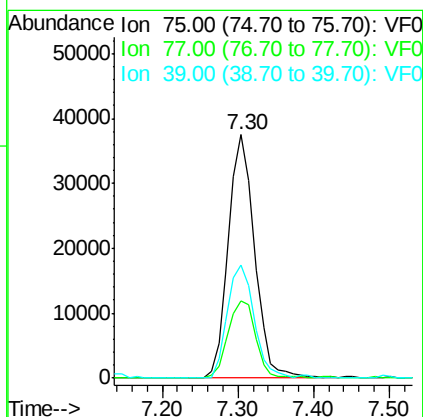
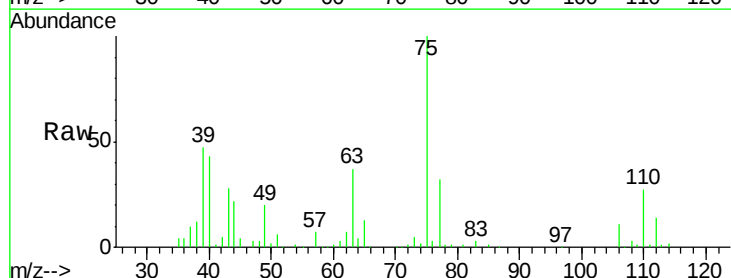
Tgt Ion: 75 Resp: 90196

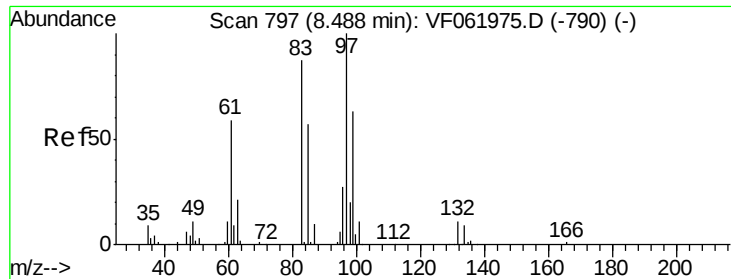
Ion Ratio Lower Upper

75 100

77 31.8 26.4 39.6

39 46.6 38.0 57.0





#55

1,1,2-Trichloroethane

Concen: 21.192 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 97 Resp: 40162

Ion Ratio Lower Upper

97 100

83 78.5 69.7 104.5

85 57.2 45.8 68.6

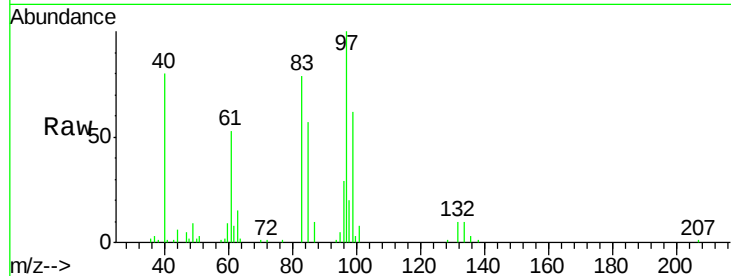
99 61.9 50.3 75.5

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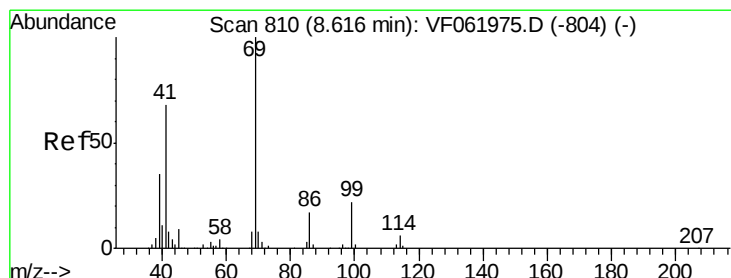
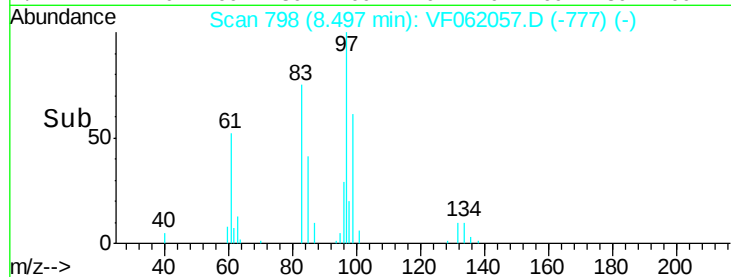
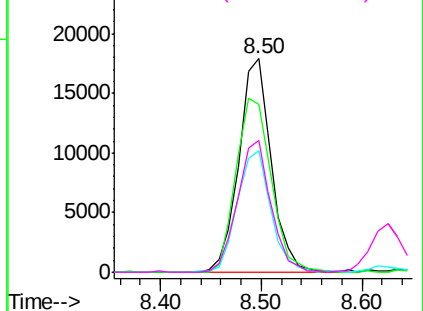


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 21.986 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.01 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

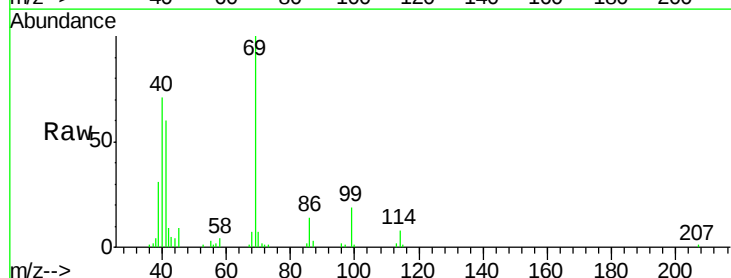
Tgt Ion: 69 Resp: 47366

Ion Ratio Lower Upper

69 100

41 59.5 54.7 82.1

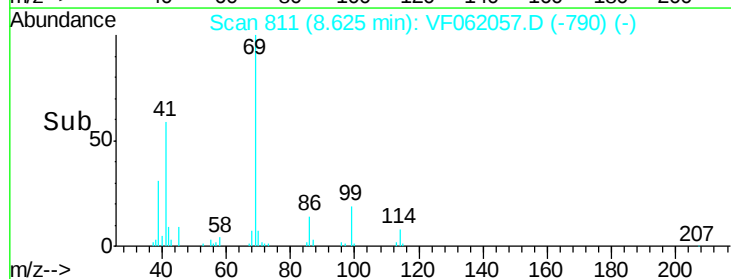
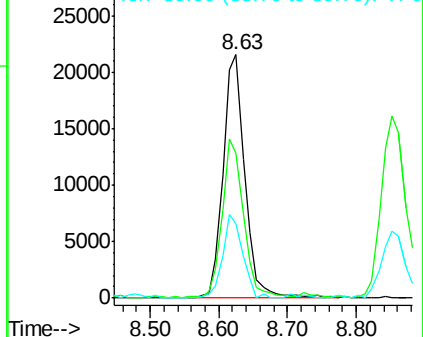
39 30.7 27.9 41.9

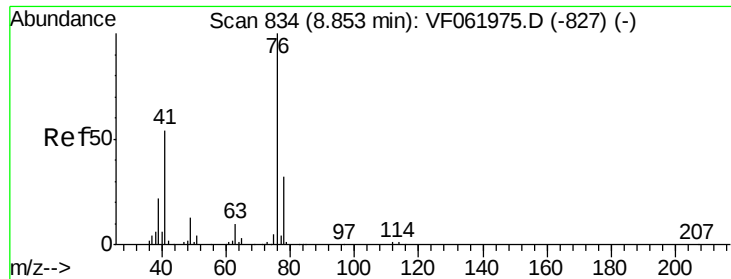


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 22.065 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 76 Resp: 69754

Ion Ratio Lower Upper

76 100

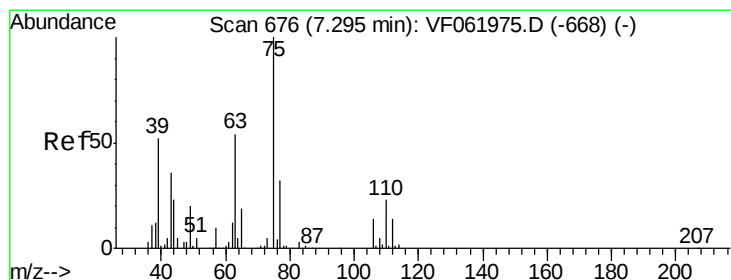
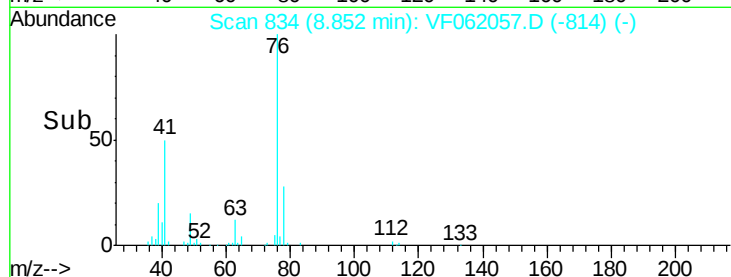
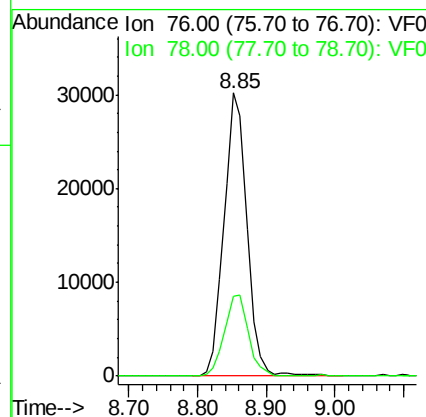
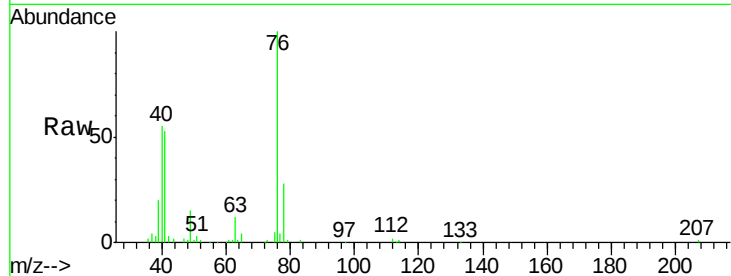
78 28.2 25.4 38.2

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#58

2-Chloroethyl Vinyl ether

Concen: 92.903 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF062057.D

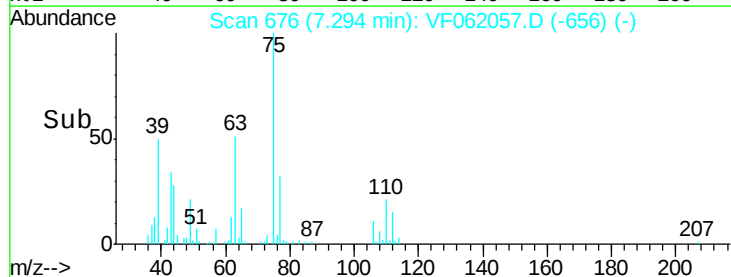
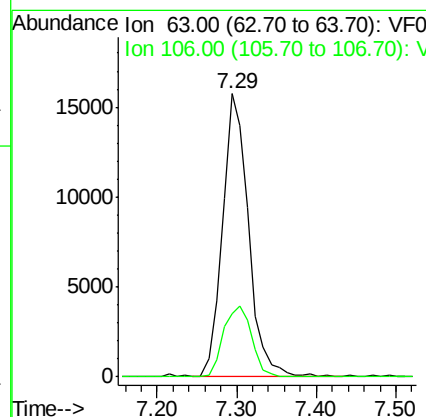
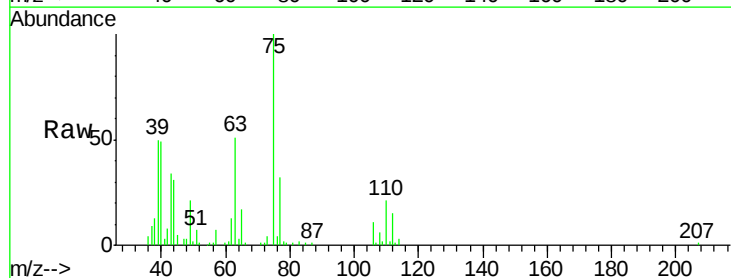
Acq: 21 Mar 2019 13:33

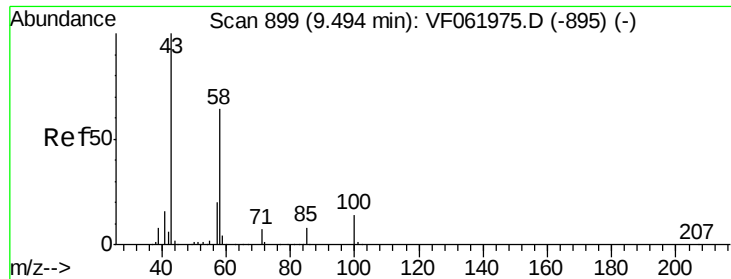
Tgt Ion: 63 Resp: 36252

Ion Ratio Lower Upper

63 100

106 22.2 20.9 31.3





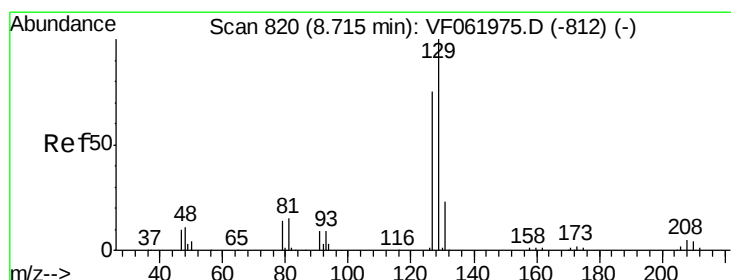
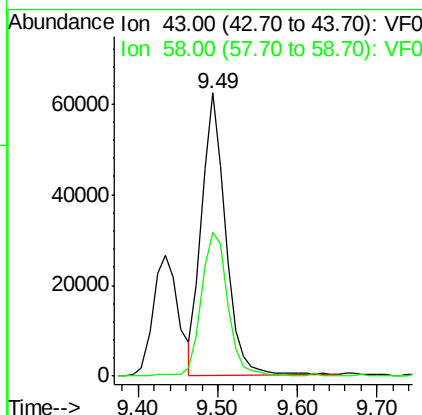
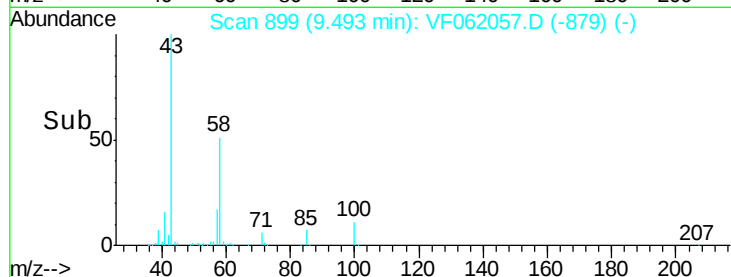
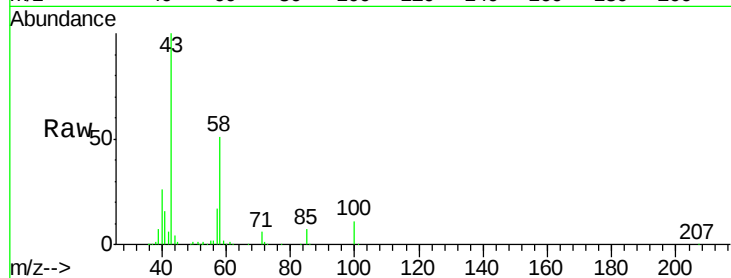
#59
2-Hexanone
Concen: 113.562 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion: 43 Resp: 130036
Ion Ratio Lower Upper
43 100
58 51.0 28.4 85.2

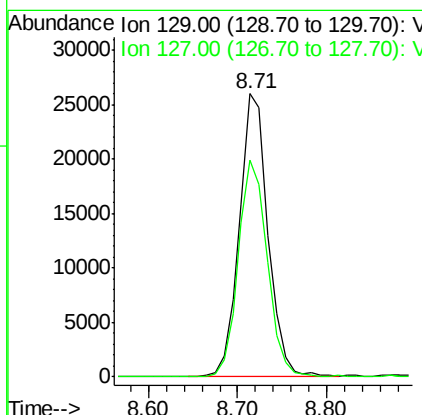
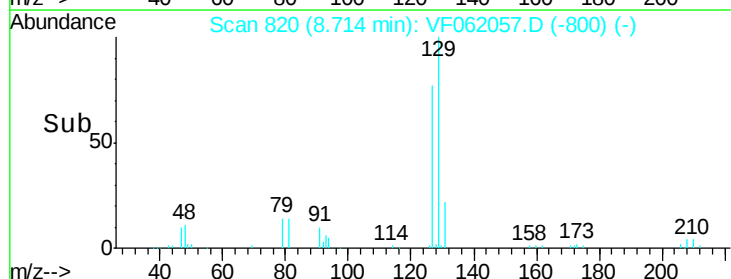
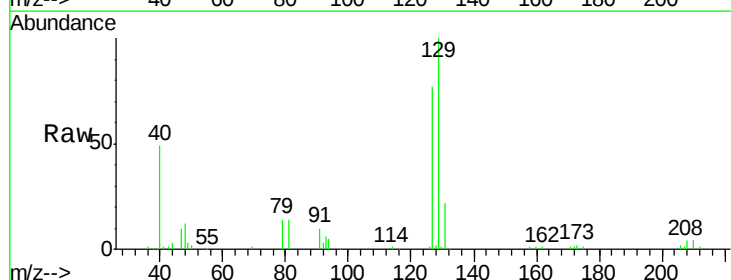
Manual Integrations
APPROVED

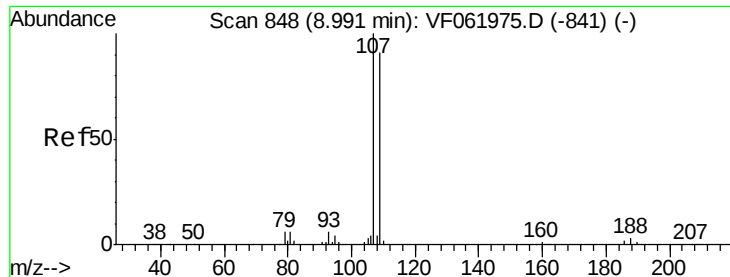
MMDadoda
3/23/2019 2:59:14 AM



#60
Dibromochloromethane
Concen: 22.158 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion: 129 Resp: 58296
Ion Ratio Lower Upper
129 100
127 76.8 37.3 111.8





#61

1,2-Dibromoethane

Concen: 20.796 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion:107 Resp: 42275

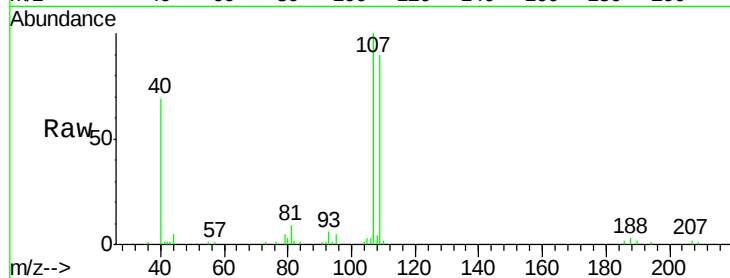
Ion Ratio Lower Upper

107 100

109 90.5 72.8 109.2

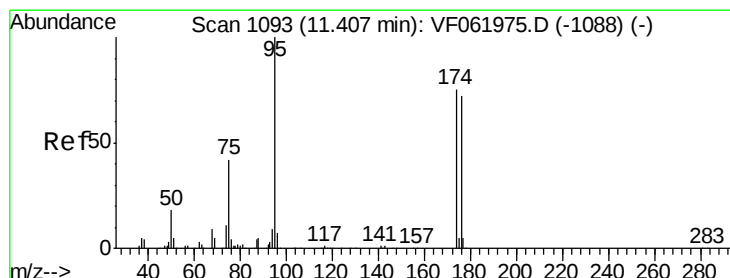
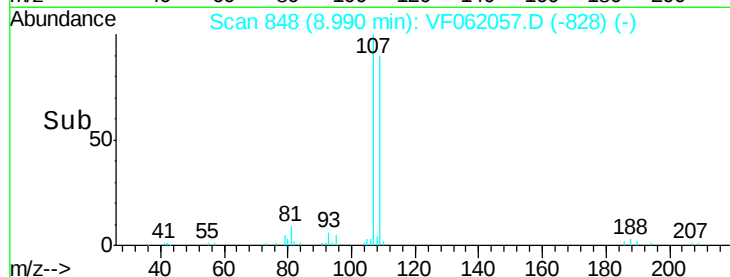
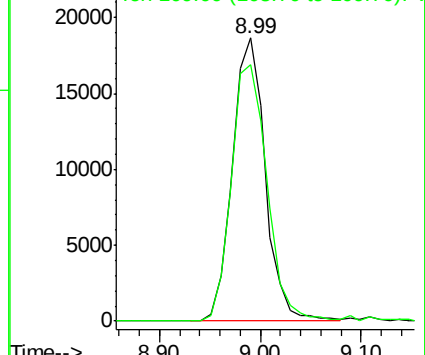
Manual Integrations
APPROVED

MMDadoda
3/23/2019 2:59:14 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 43.344 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

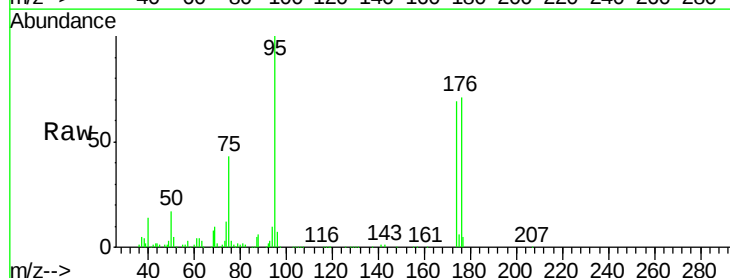
Tgt Ion: 95 Resp: 156988

Ion Ratio Lower Upper

95 100

174 68.7 0.0 149.4

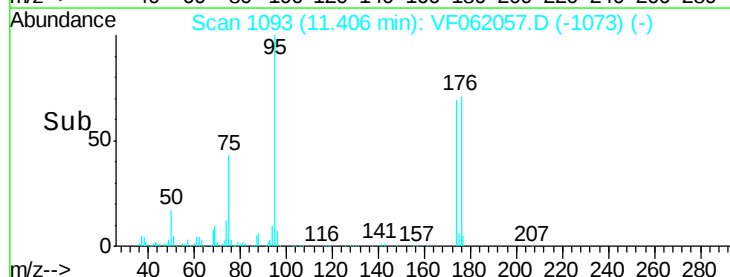
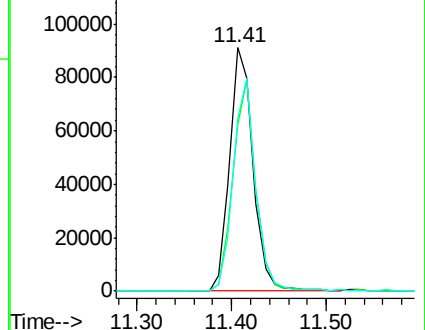
176 71.1 0.0 143.4

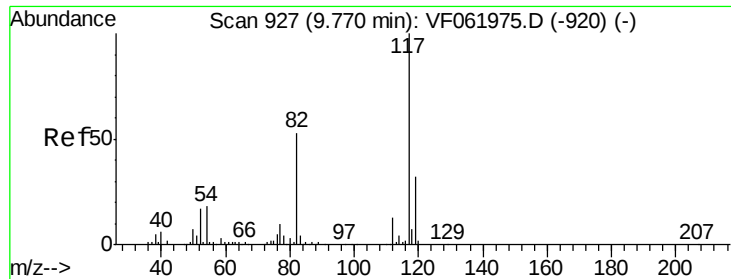


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





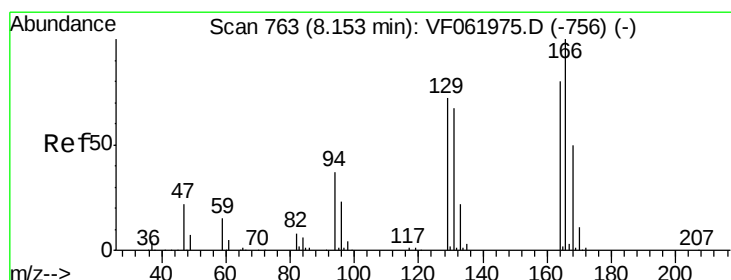
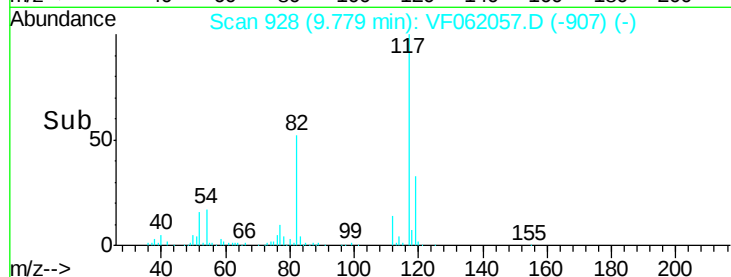
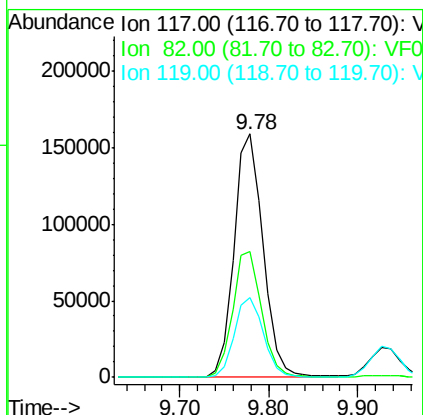
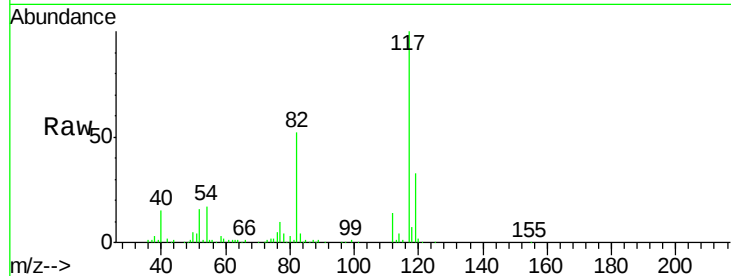
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	361527		
82	51.6		42.5	63.7
119	32.9		25.4	38.0

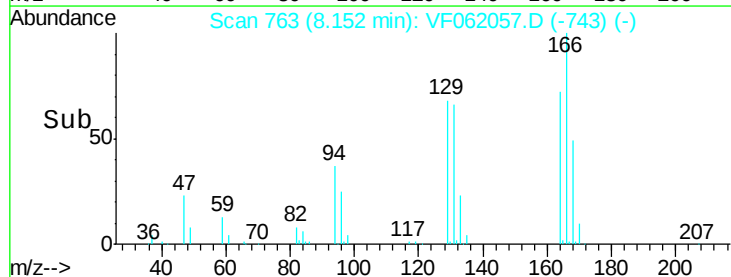
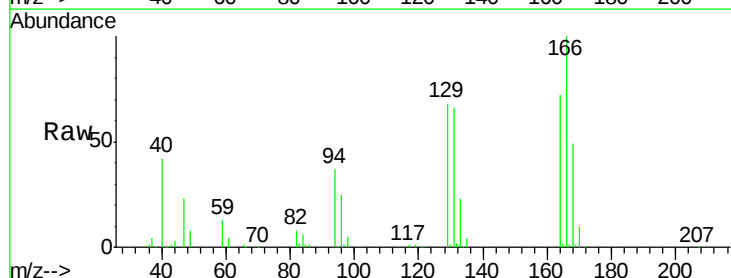
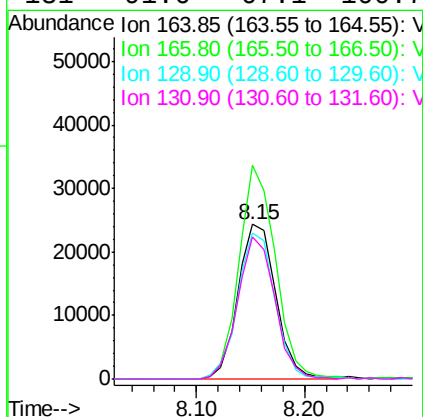
Manual Integrations
APPROVED

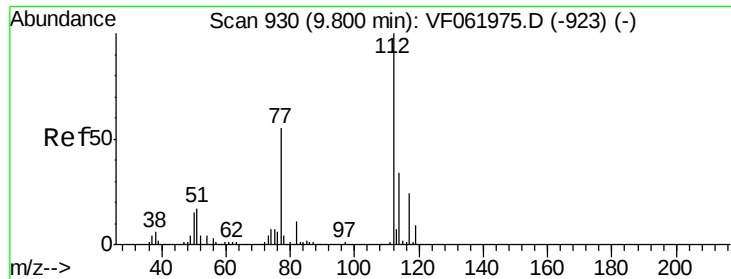
MMDadoda
3/23/2019 2:59:14 AM



#64
Tetrachloroethene
Concen: 22.515 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	59168		
166	138.1		100.0	150.0
129	94.3		72.4	108.6
131	91.6		67.1	100.7





#65

Chlorobenzene

Concen: 23.072 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion:112 Resp: 155297

Ion Ratio Lower Upper

112 100

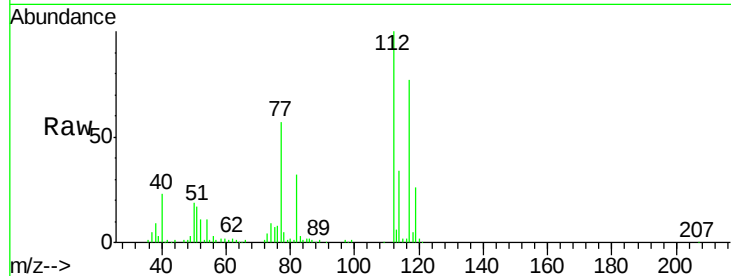
114 33.6 26.9 40.3

Manual Integrations

APPROVED

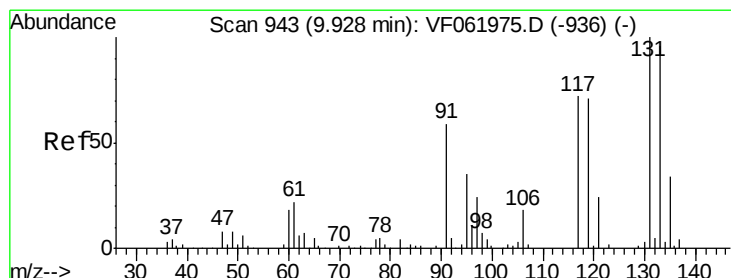
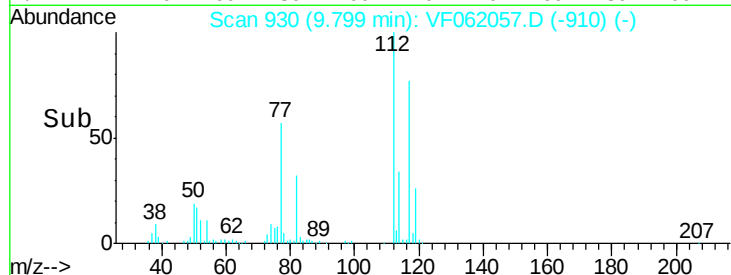
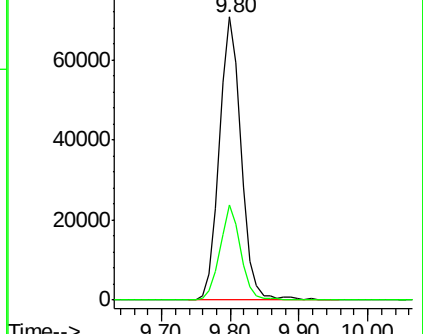
MMDadoda

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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 24.488 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

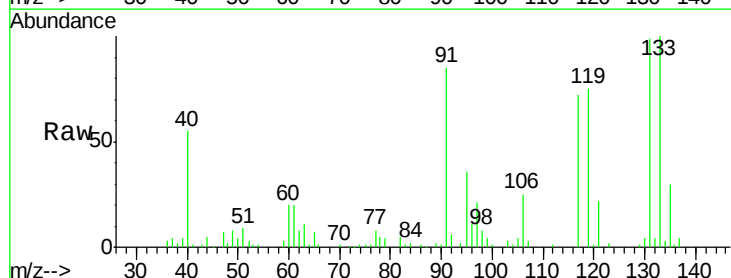
Tgt Ion:131 Resp: 63890

Ion Ratio Lower Upper

131 100

133 100.6 48.0 144.2

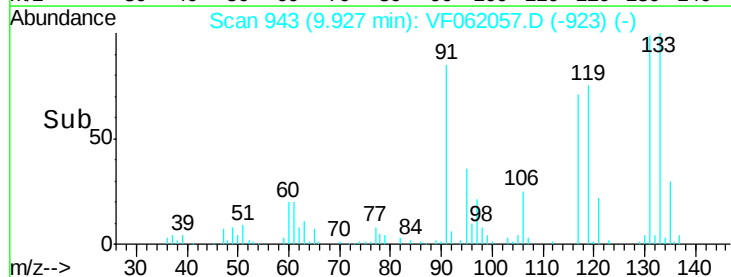
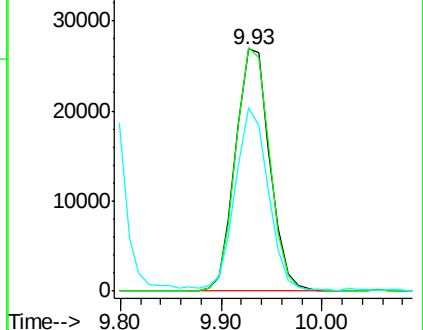
119 75.6 35.9 107.7

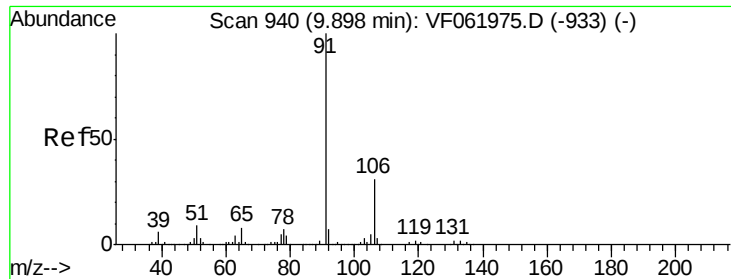


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





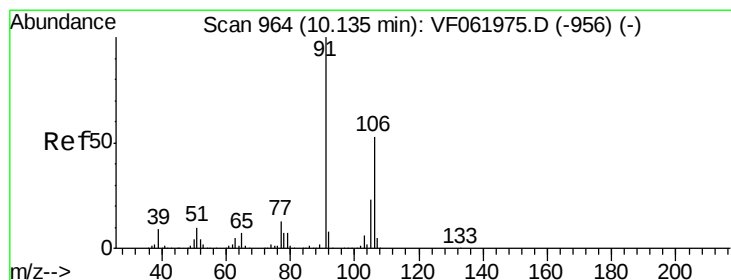
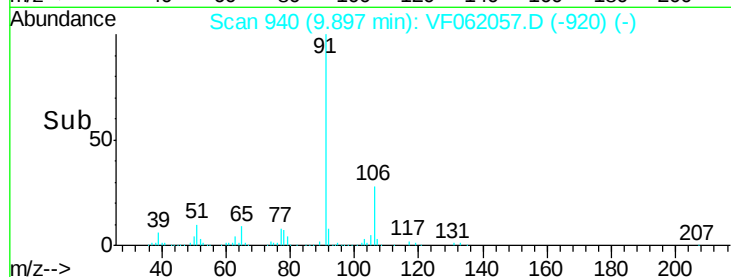
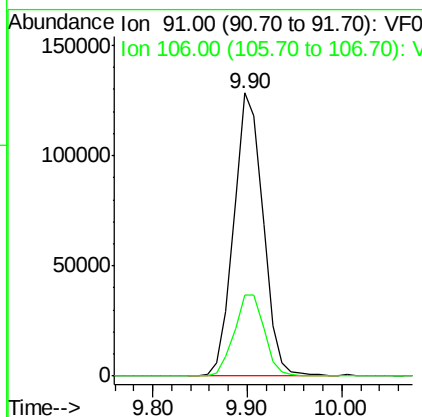
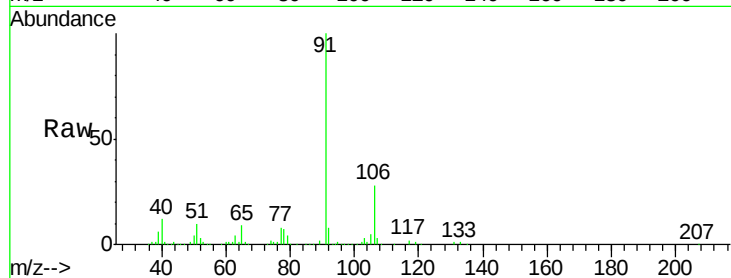
#67
Ethyl Benzene
Concen: 23.953 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion: 91 Resp: 276059
Ion Ratio Lower Upper
91 100
106 28.4 24.4 36.6

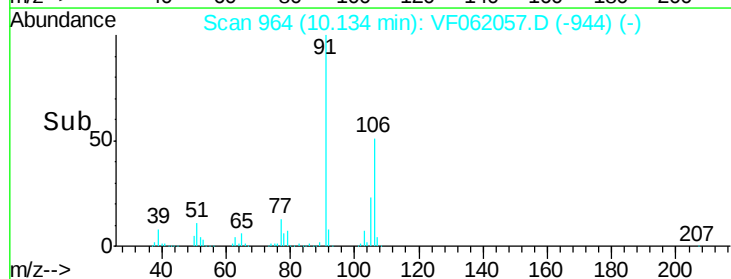
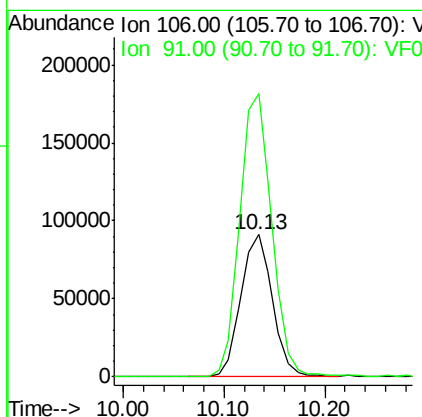
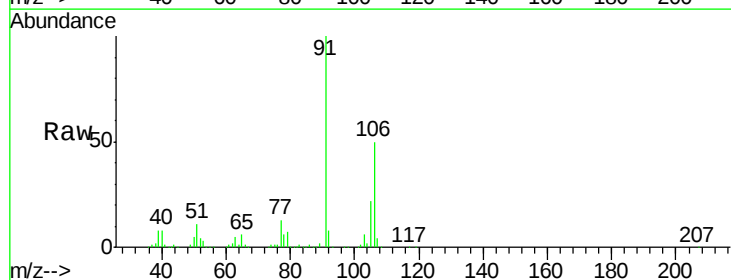
Manual Integrations
APPROVED

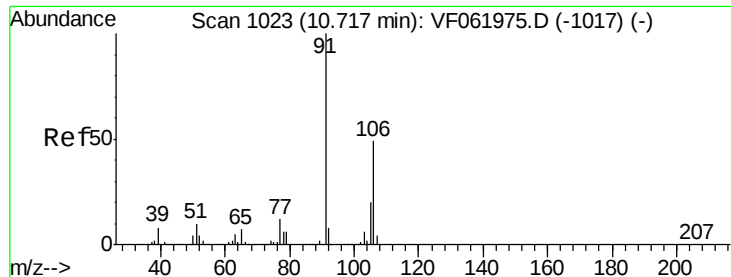
MMDadoda
3/23/2019 2:59:14 AM



#68
m/p-Xylenes
Concen: 46.057 ug/l
RT: 10.13 min Scan# 964
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion: 106 Resp: 199638
Ion Ratio Lower Upper
106 100
91 199.2 151.9 227.9





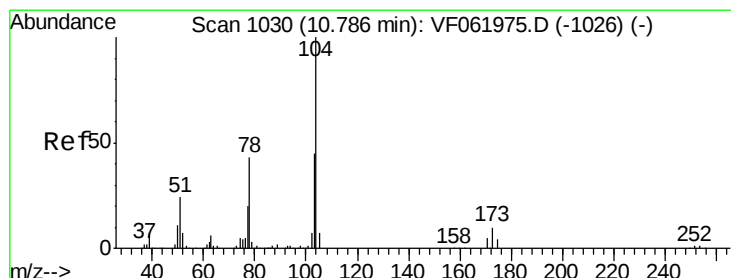
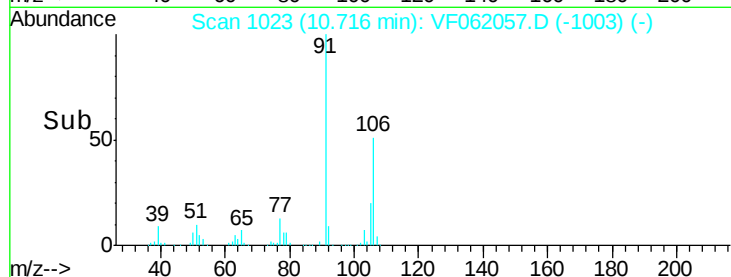
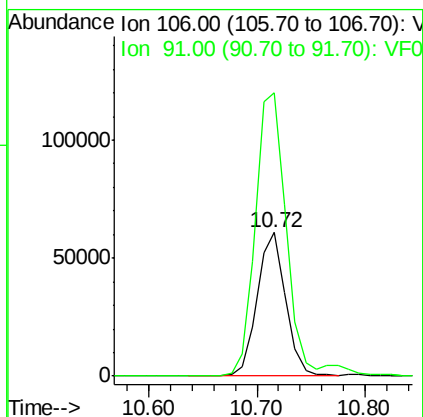
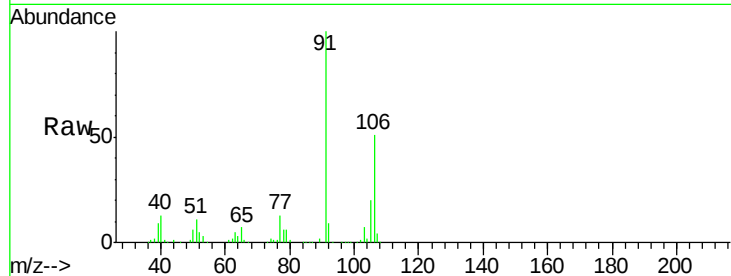
#69
o-Xylene
Concen: 24.327 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
106	100	112834		
91	196.9	102.3	306.8	

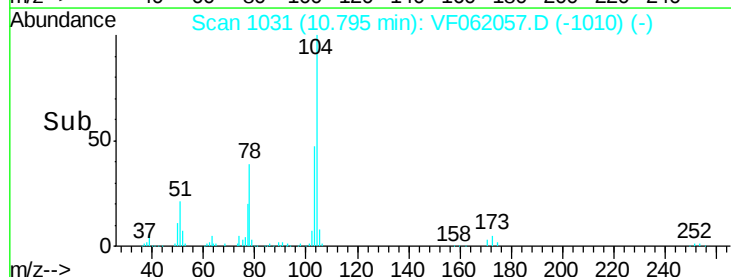
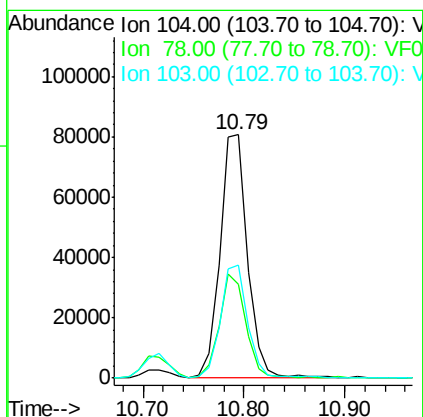
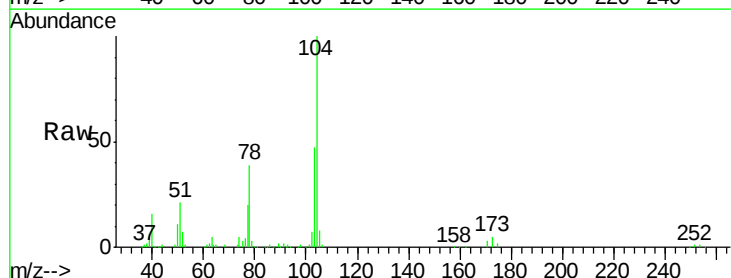
Manual Integrations
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3/23/2019 2:59:14 AM



#70
Styrene
Concen: 23.764 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	152699		
78	38.6	34.7	52.1	
103	46.6	36.6	54.8	





#71

Bromoform

Concen: 23.270 ug/l

RT: 10.77 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion:173 Resp: 30709

Ion Ratio Lower Upper

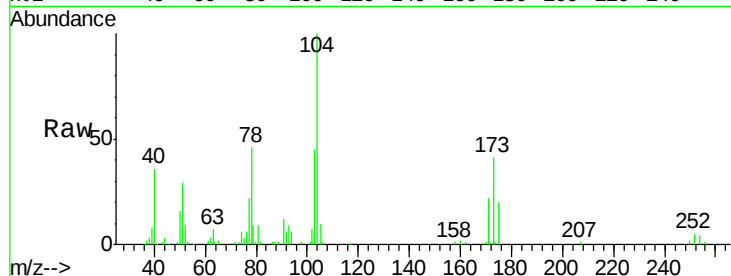
173 100

175 49.0 23.7 71.1

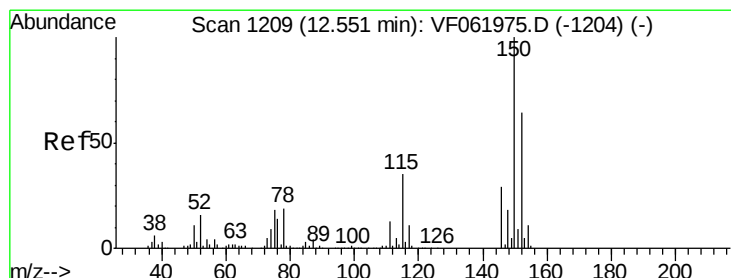
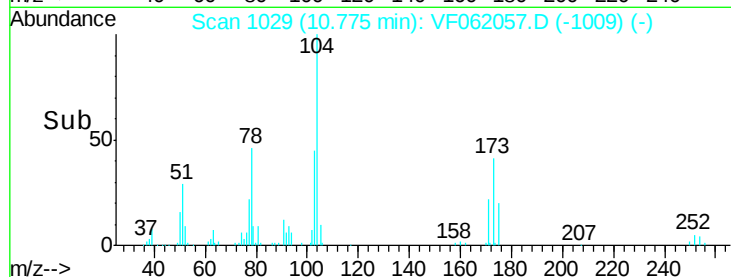
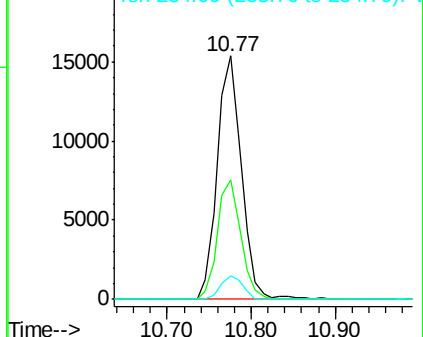
254 9.6 7.8 11.8

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: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

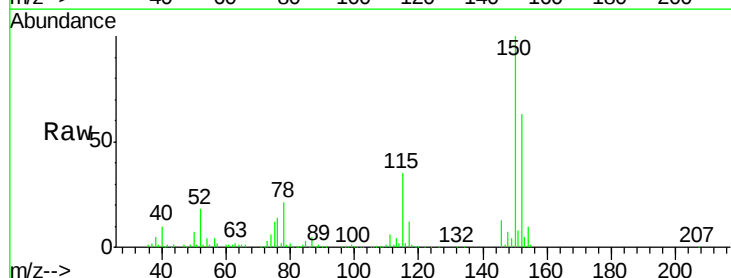
Tgt Ion:152 Resp: 188827

Ion Ratio Lower Upper

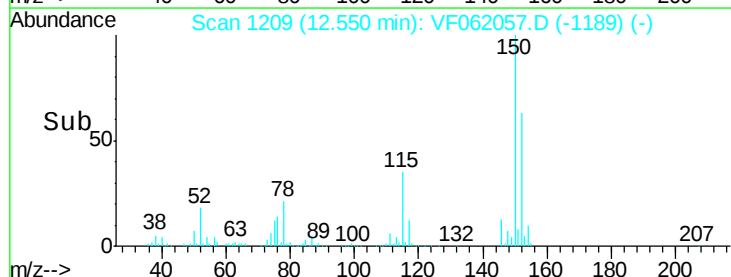
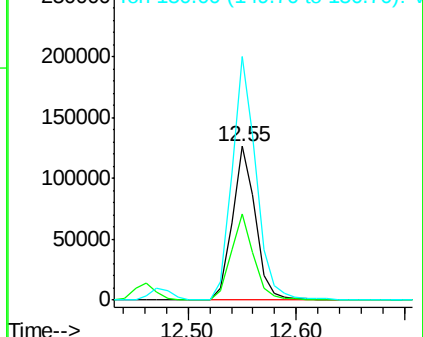
152 100

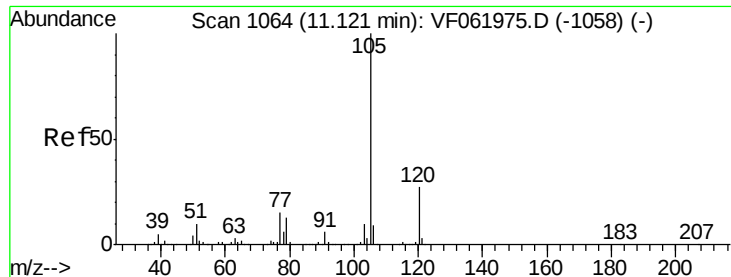
115 55.7 27.3 81.9

150 158.1 0.0 316.2



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





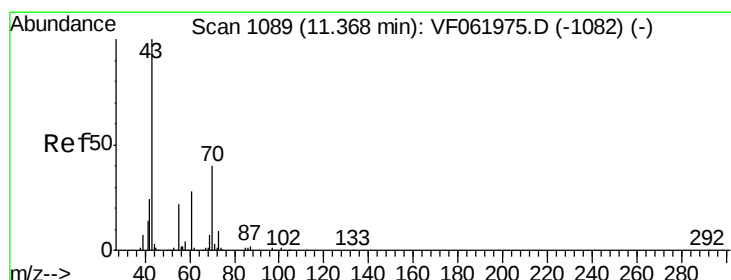
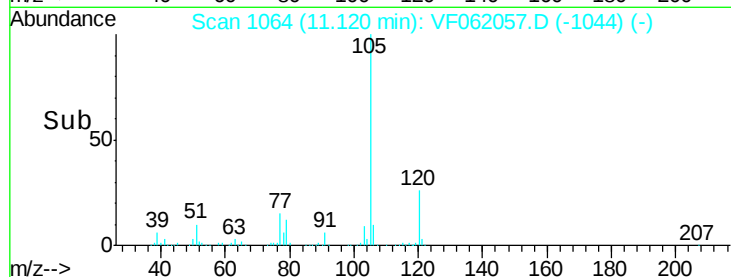
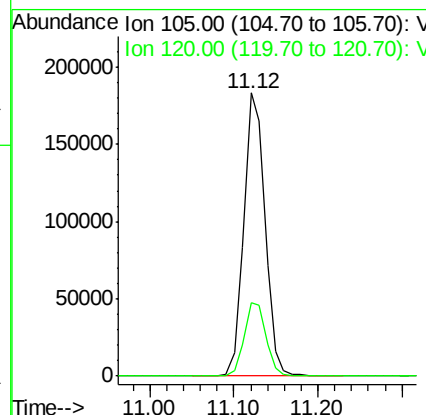
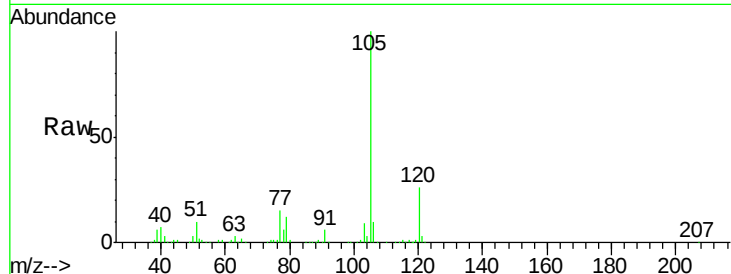
#73
Isopropylbenzene
Concen: 24.715 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.8	41.3

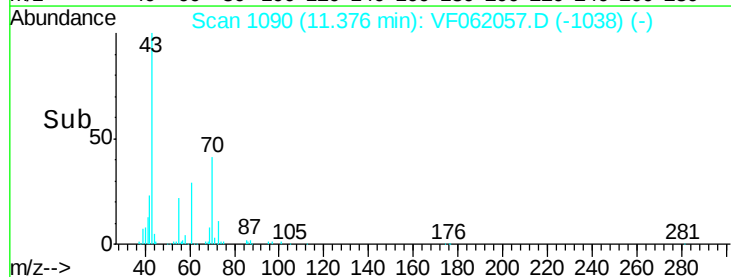
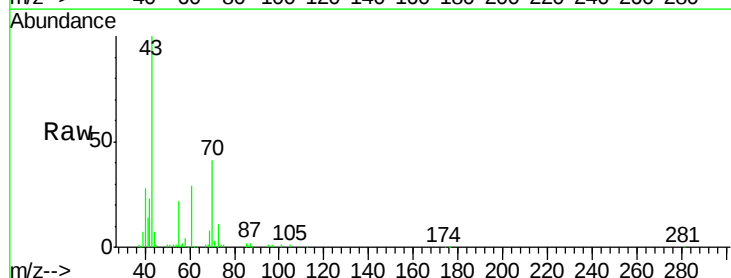
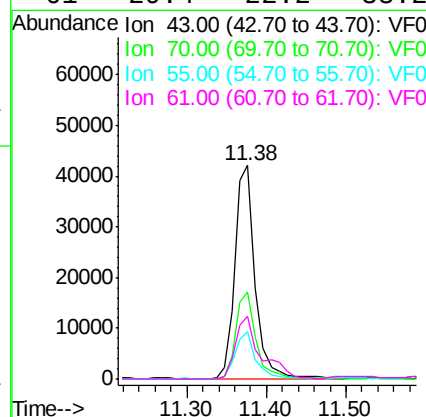
Manual Integrations
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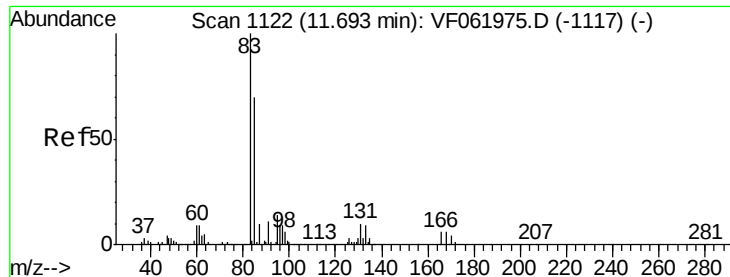
MMDadoda
3/23/2019 2:59:14 AM



#74
N-ethyl acetate
Concen: 25.404 ug/l
RT: 11.38 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
43	100		
70	40.9	31.9	47.9
55	22.4	17.9	26.9
61	29.4	22.2	33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 24.026 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

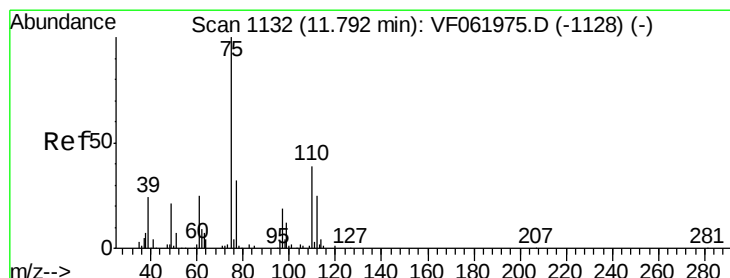
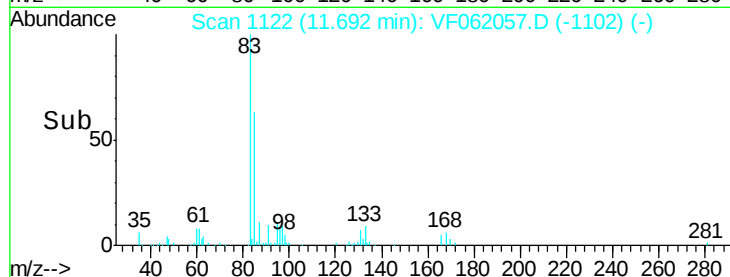
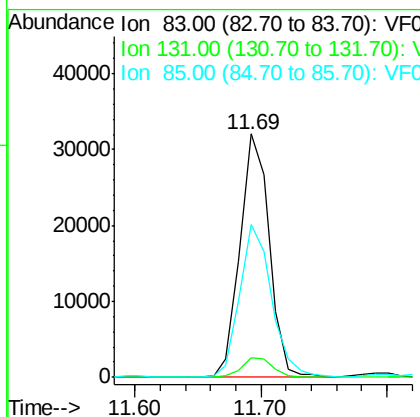
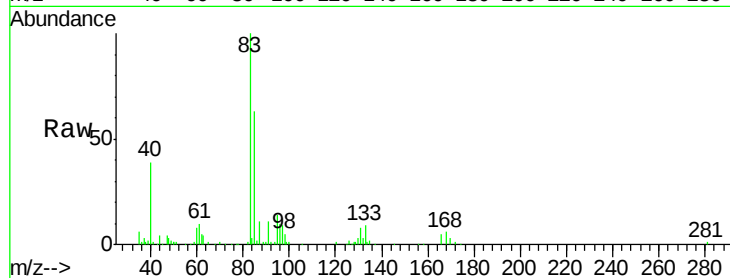
ClientSampleId :

VF0321SBS01

Tot Ion:	83	Resp:	51735
Ion Ratio	Lower	Upper	
83	100		
131	7.8	4.9	14.7
85	62.8	35.3	105.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 23.351 ug/l

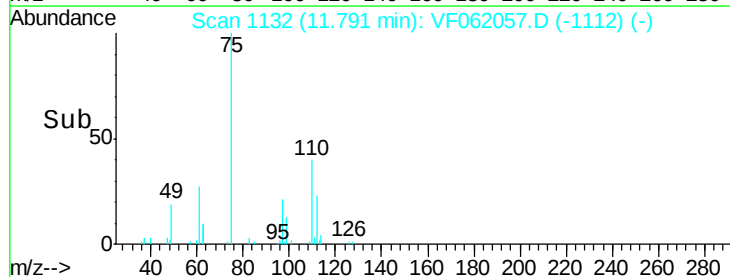
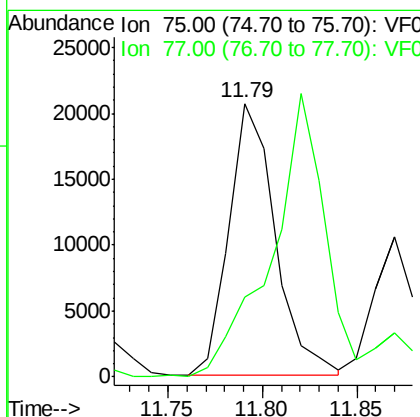
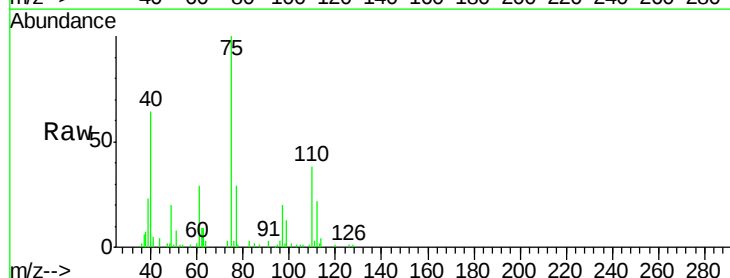
RT: 11.79 min Scan# 1132

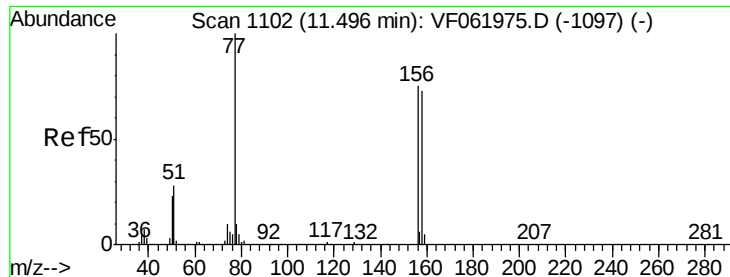
Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Tgt Ion:	75	Resp:	35159
Ion Ratio	Lower	Upper	
75	100		
77	29.0	16.4	49.2





#77

Bromobenzene

Concen: 21.157 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

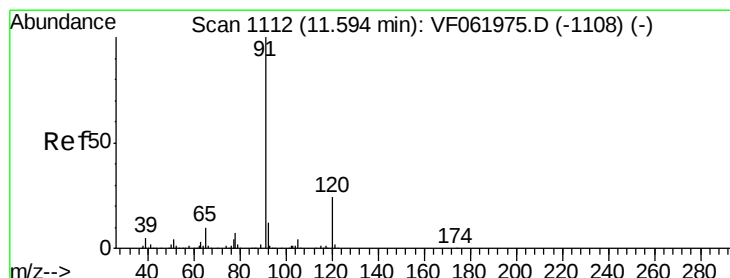
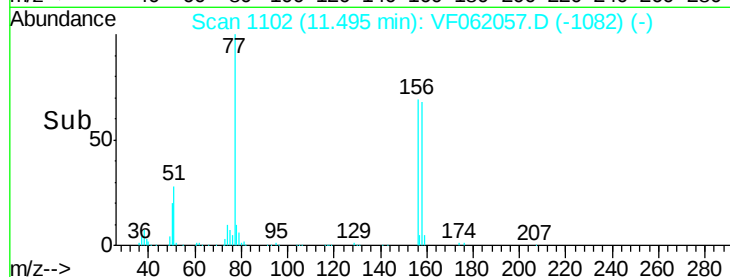
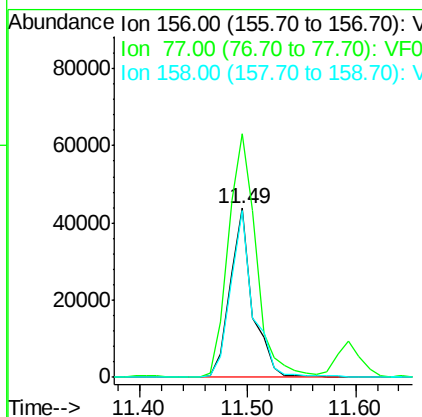
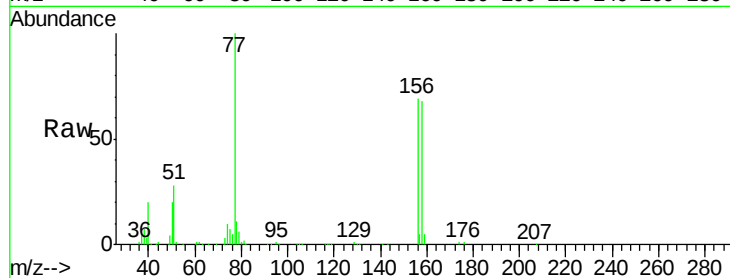
ClientSampleId :

VF0321SBS01

Tot Ion:	156	Resp:	63915
Ion Ratio	Lower	Upper	
156	100		
77	144.1	67.0	201.0
158	98.4	48.9	146.7

Manual Integrations
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#78

n-propylbenzene

Concen: 24.272 ug/l

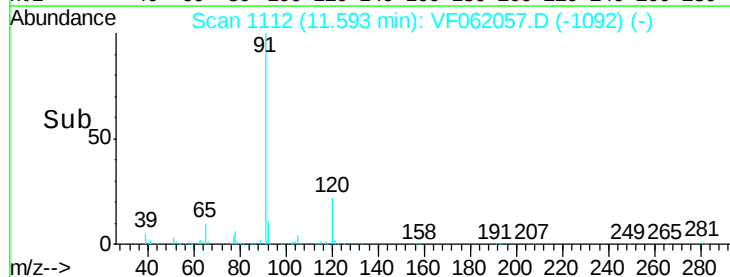
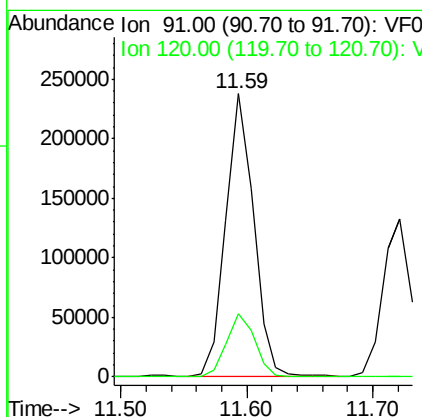
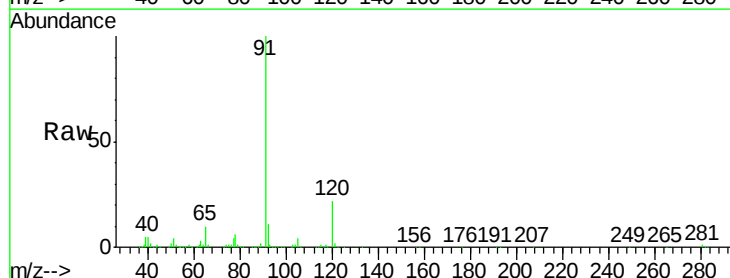
RT: 11.59 min Scan# 1112

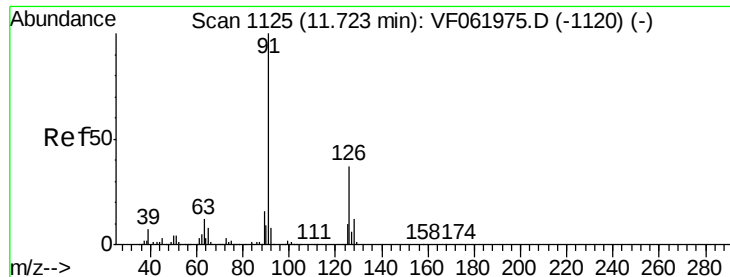
Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Tgt Ion:	91	Resp:	364087
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.8	35.3





#79

2-Chlorotoluene

Concen: 24.453 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

ClientSampleId :

VF0321SBS01

Tot Ion: 91 Resp: 207045

Ion Ratio Lower Upper

91 100

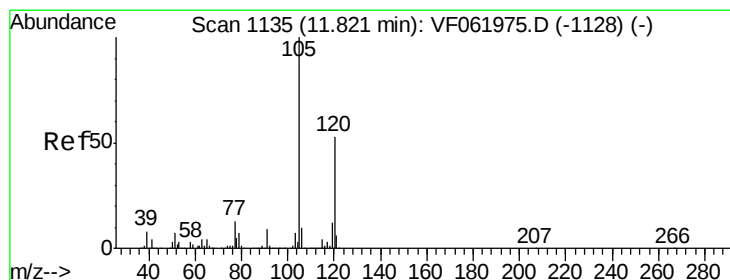
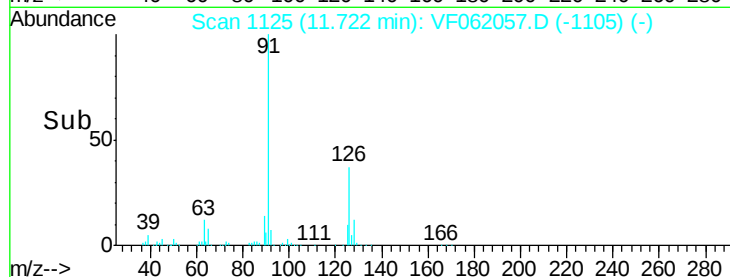
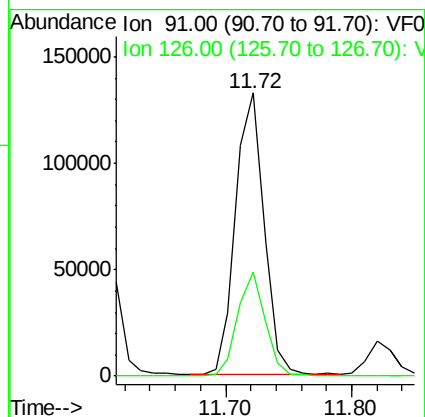
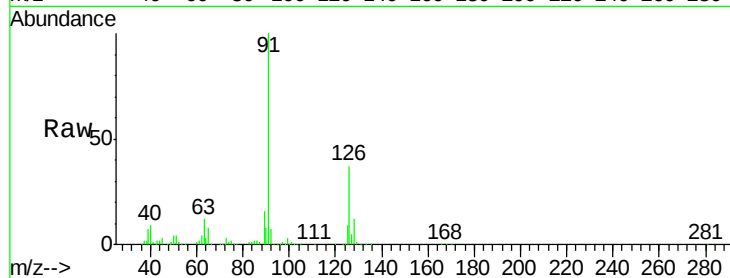
126 36.7 18.4 55.2

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#80

1,3,5-Trimethylbenzene

Concen: 23.729 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF062057.D

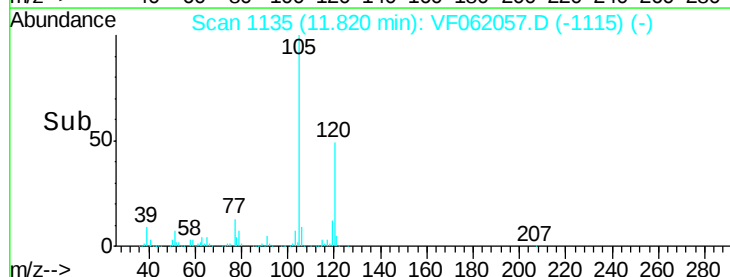
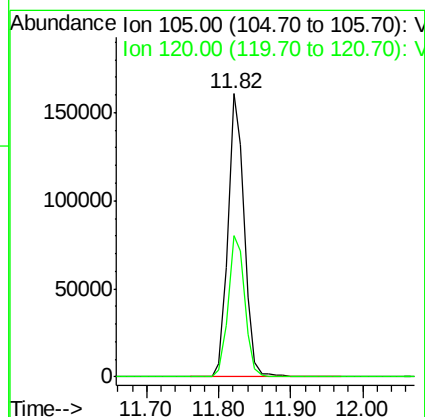
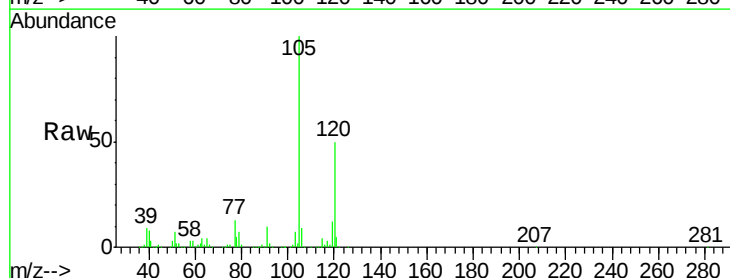
Acq: 21 Mar 2019 13:33

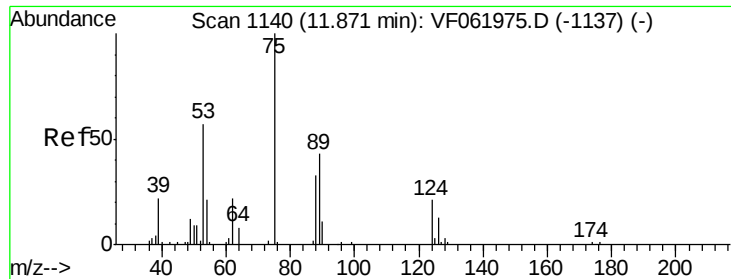
Tgt Ion: 105 Resp: 250054

Ion Ratio Lower Upper

105 100

120 50.1 26.6 79.7





#81

trans-1,4-Dichloro-2-butene

Concen: 25.419 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Instrument :

MSVOA_F

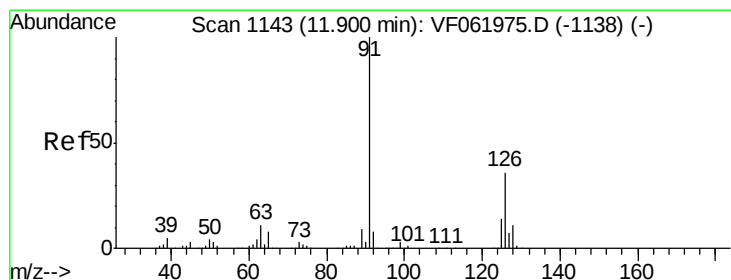
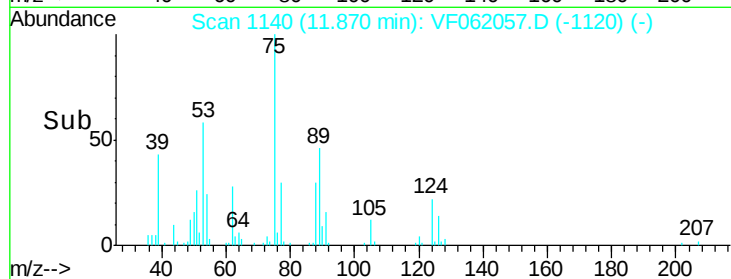
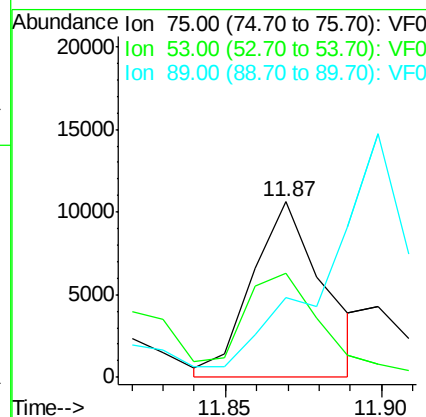
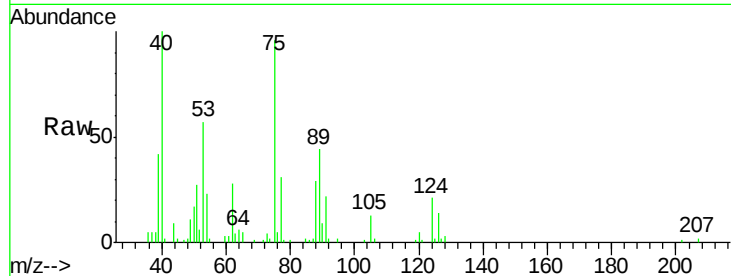
ClientSampleId :

VF0321SBSD01

Tot Ion:	75	Resp:	16932
Ion	Ratio	Lower	Upper
75	100		
53	59.1	49.0	73.6
89	45.7	37.1	55.7

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#82

4-Chlorotoluene

Concen: 23.923 ug/l

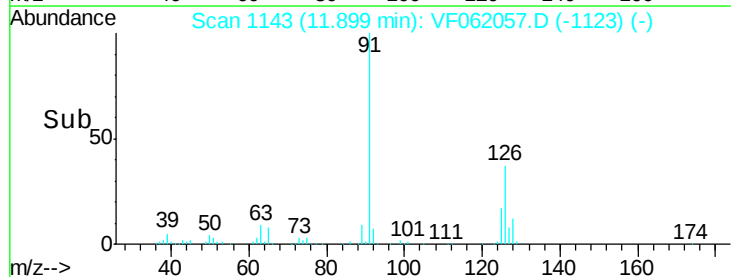
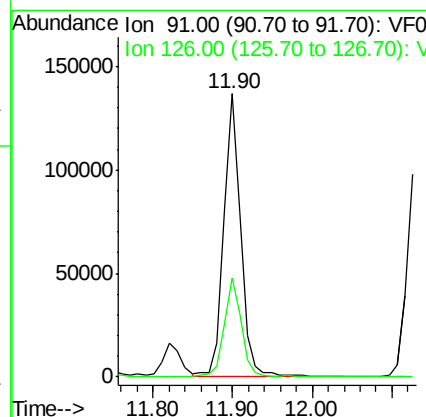
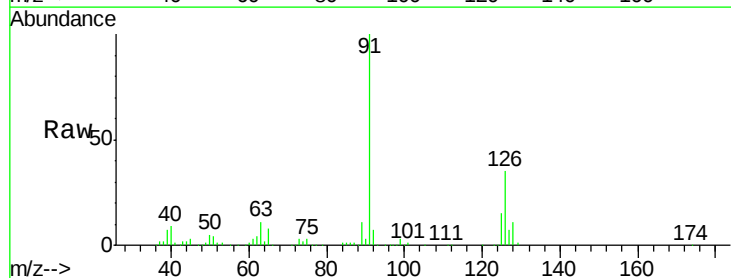
RT: 11.90 min Scan# 1143

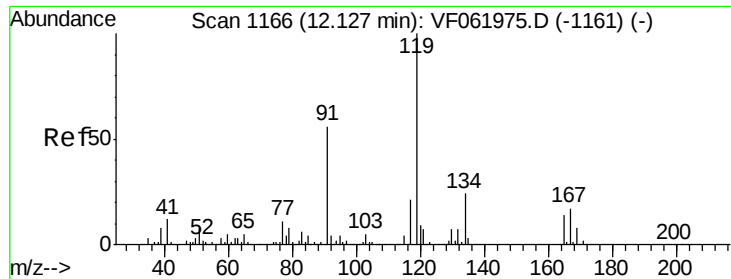
Delta R.T. -0.00 min

Lab File: VF062057.D

Acq: 21 Mar 2019 13:33

Tgt Ion:	91	Resp:	204831
Ion	Ratio	Lower	Upper
91	100		
126	34.9	18.1	54.1





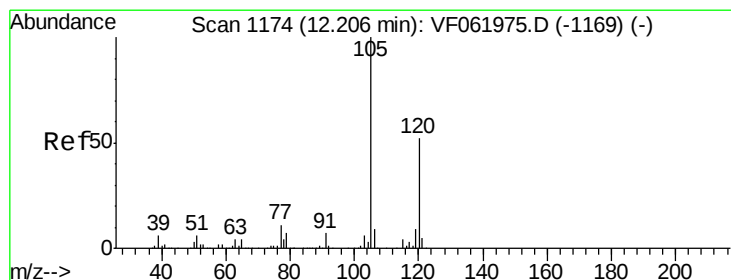
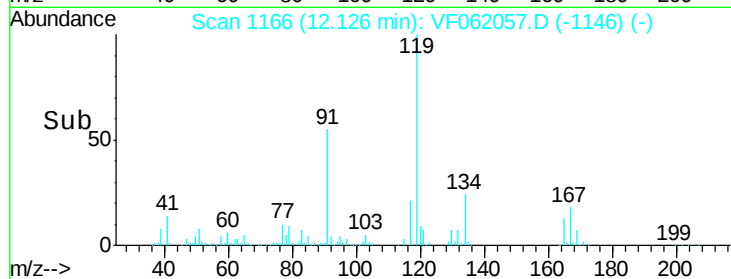
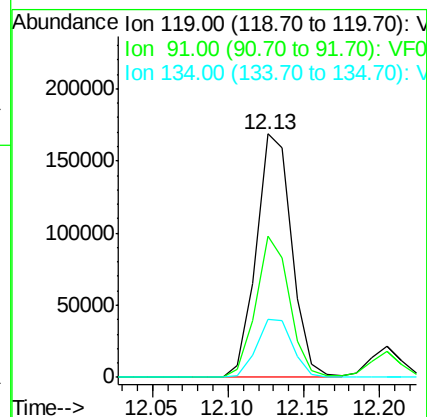
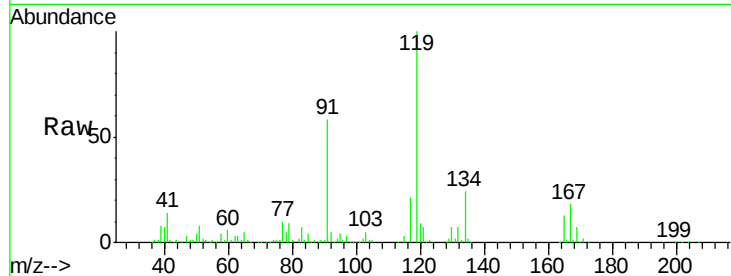
#83
tert-Butylbenzene
Concen: 25.129 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	276941		
91	58.2		27.9	83.6
134	23.8		12.3	36.8

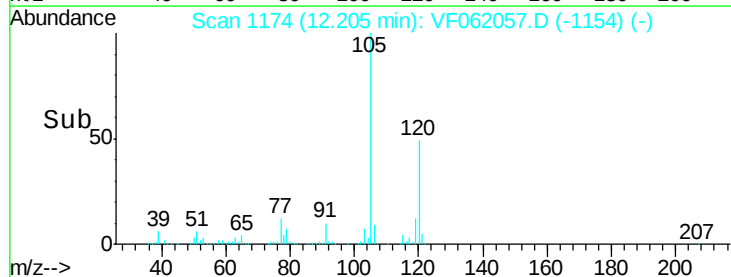
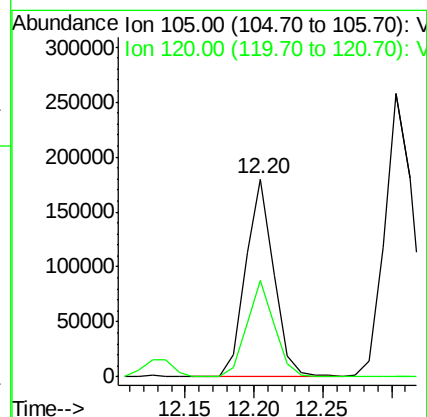
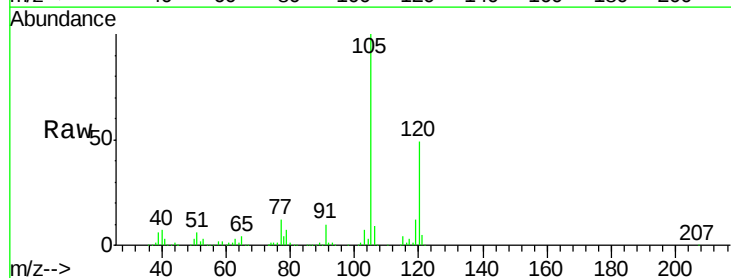
Manual Integrations
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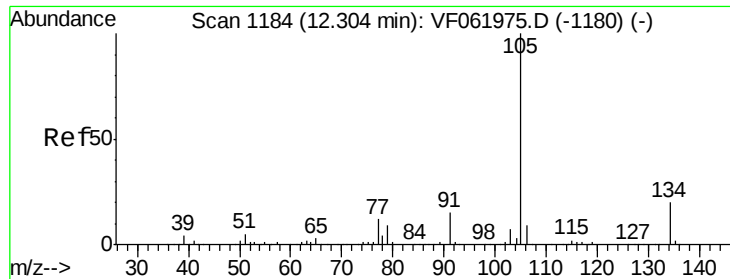
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 24.226 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	255707		
120	48.8		25.9	77.8





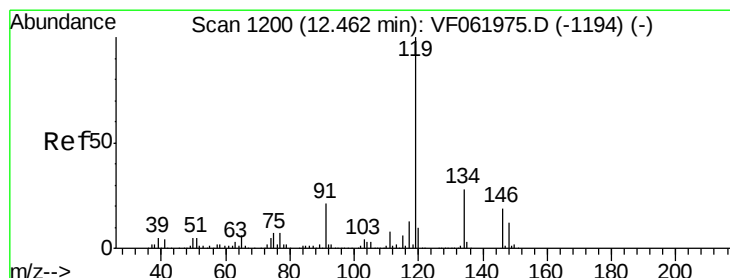
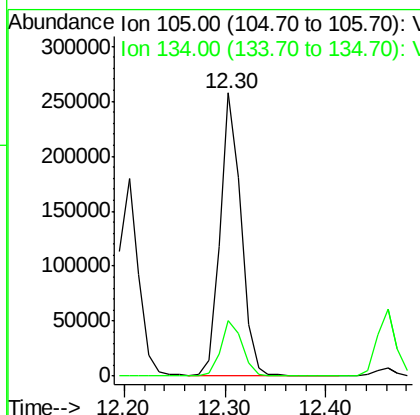
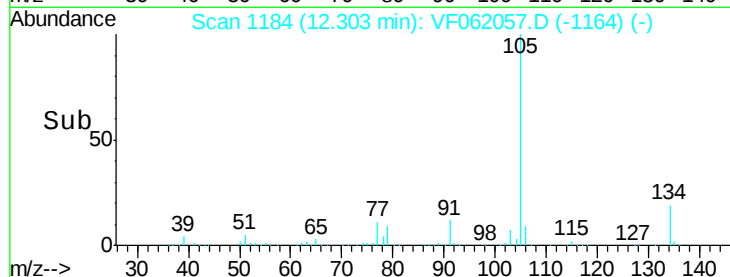
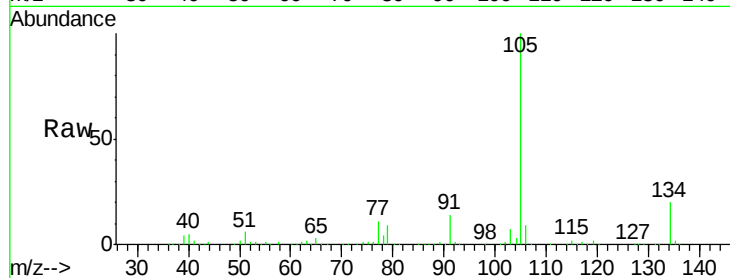
#85
 sec-Butylbenzene
 Concen: 25.054 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.0	29.8

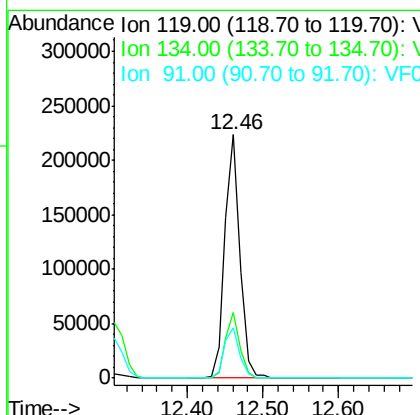
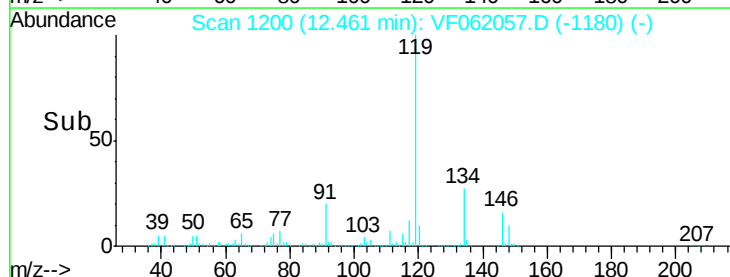
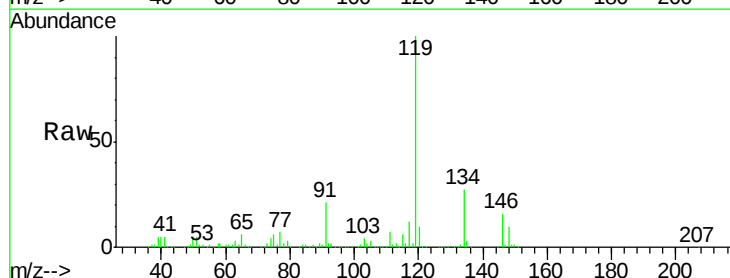
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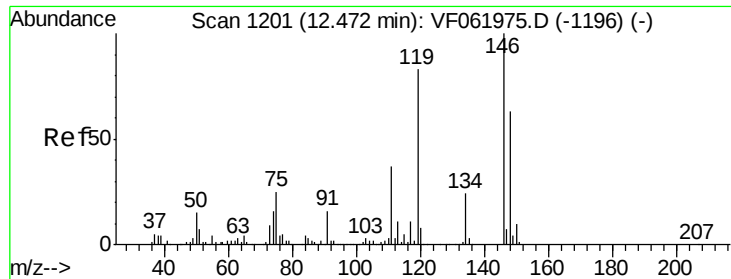
MMDadoda
 3/23/2019 2:59:14 AM



#86
 p-Isopropyltoluene
 Concen: 24.889 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.9	41.7
91	20.5	10.4	31.1





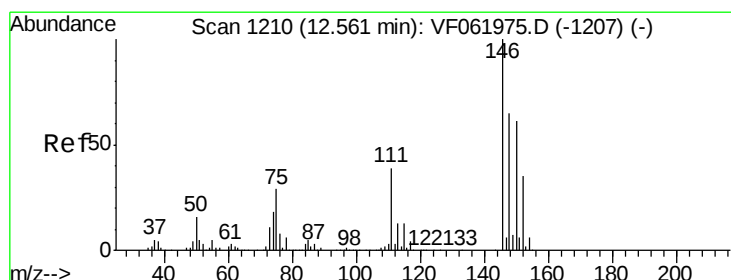
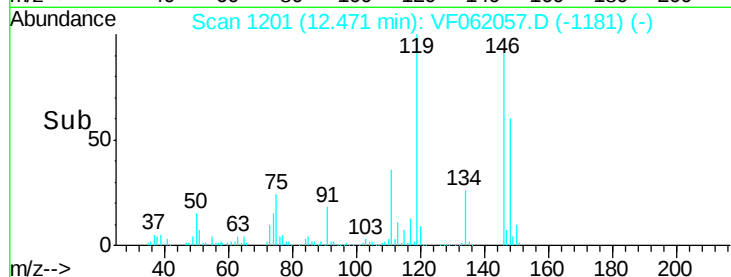
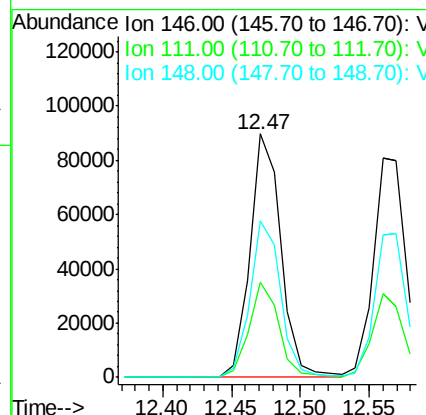
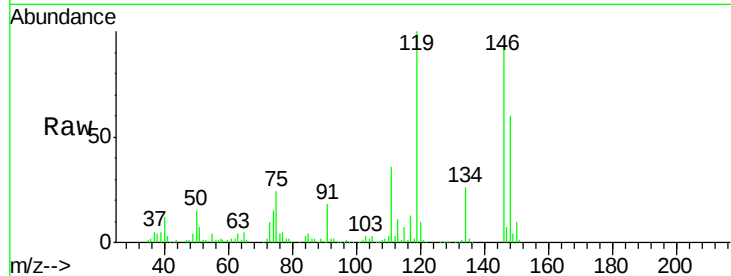
#87
 1,3-Dichlorobenzene
 Concen: 23.740 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.6	55.8
148	64.3	31.3	93.9

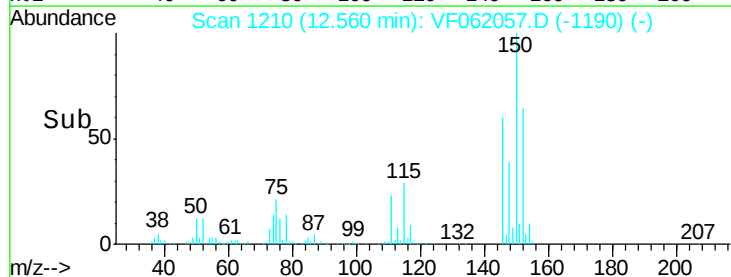
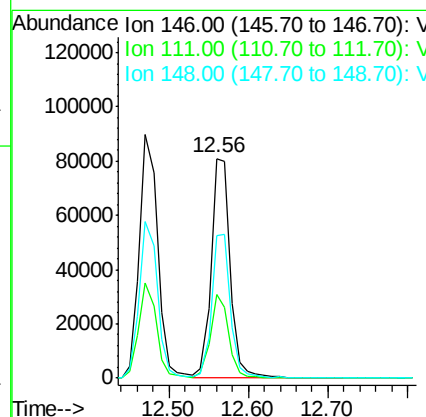
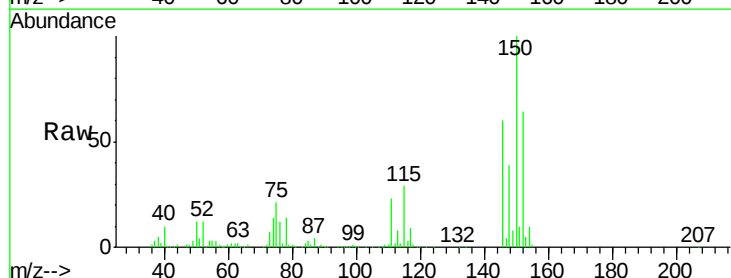
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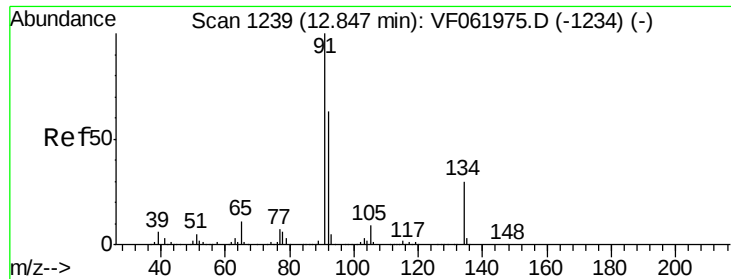
MMDadoda
 3/23/2019 2:59:14 AM



#88
 1,4-Dichlorobenzene
 Concen: 23.728 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.4	58.1
148	64.9	32.4	97.0





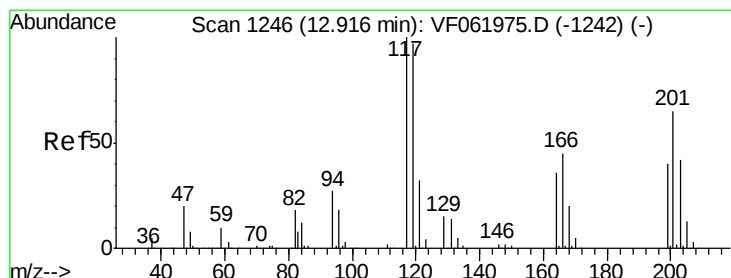
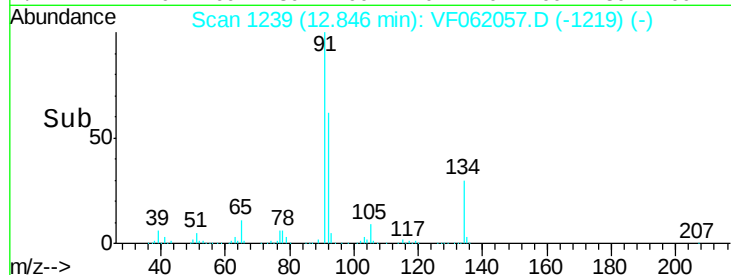
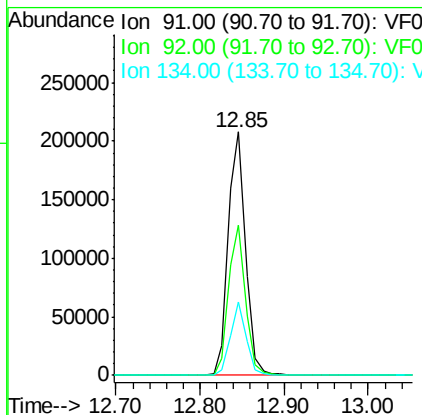
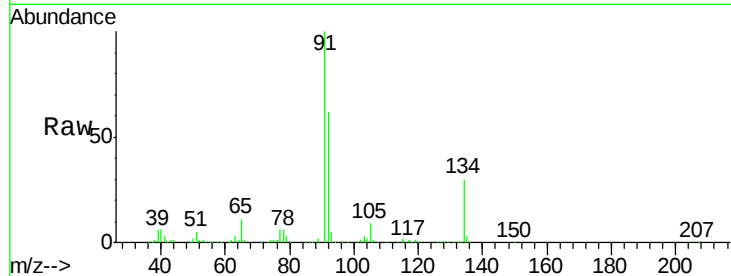
#89
n-Butylbenzene
Concen: 25.495 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	297655		
92	61.7		31.7	95.1
134	30.1		15.1	45.3

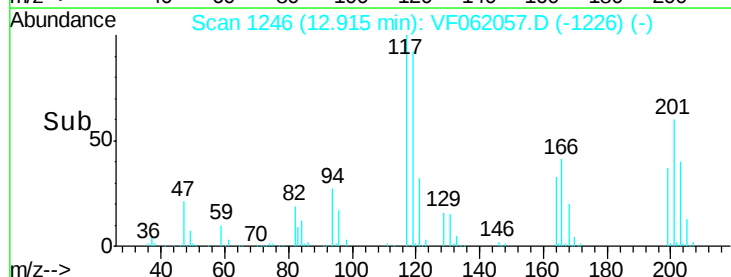
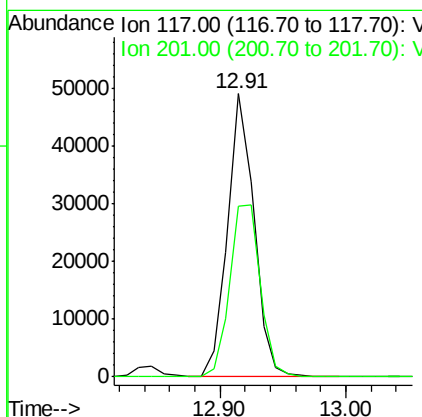
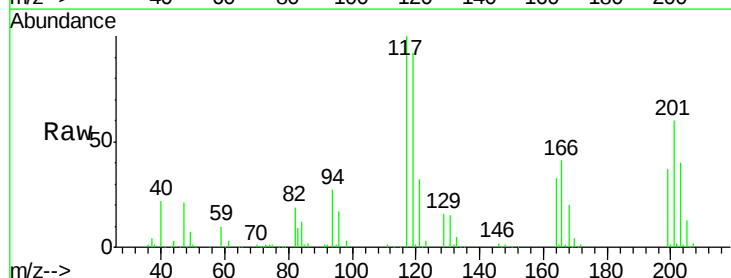
Manual Integrations
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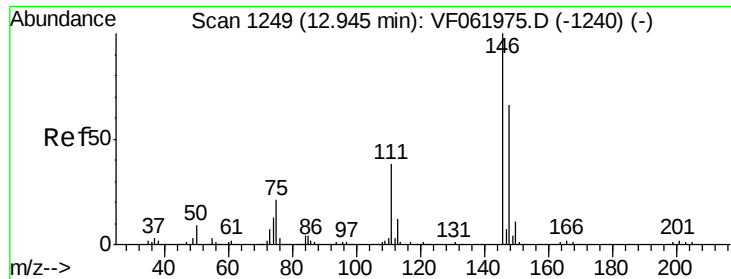
MMDadoda
3/23/2019 2:59:14 AM



#90
Hexachloroethane
Concen: 25.095 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	71156		
201	60.3		32.5	97.5





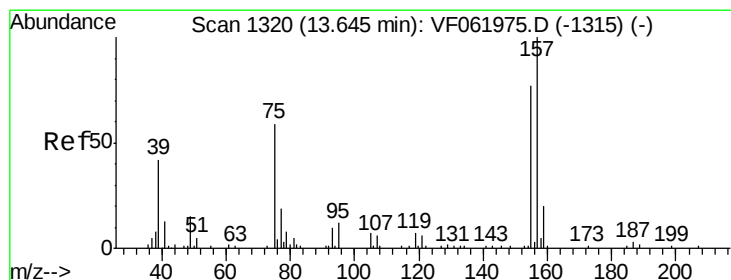
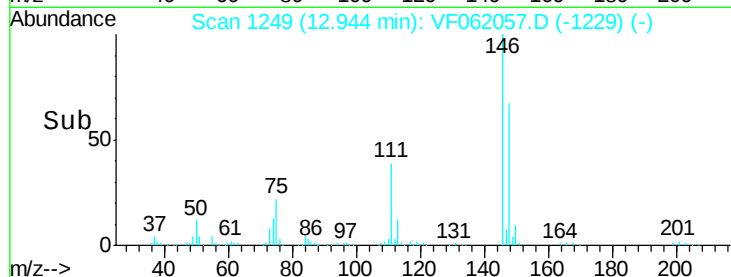
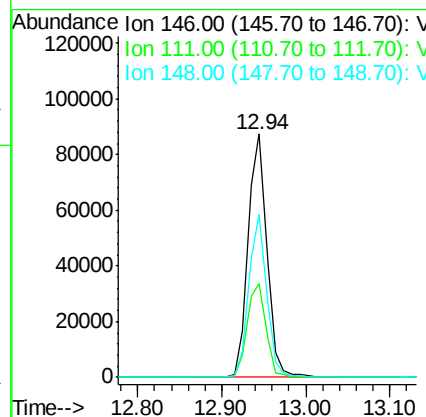
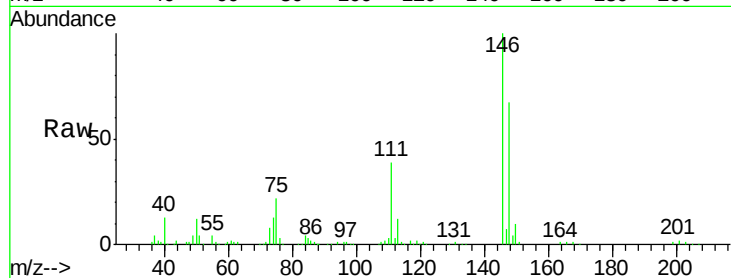
#91
 1,2-Dichlorobenzene
 Concen: 24.811 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.9	56.5
148	66.8	32.9	98.6

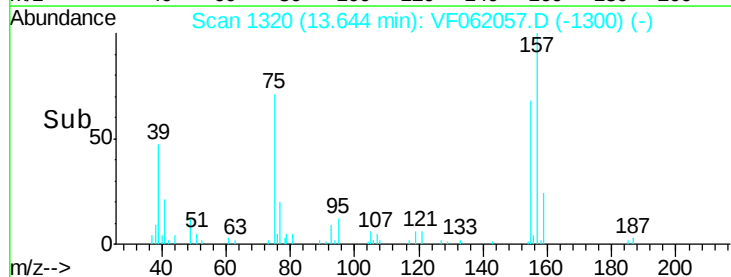
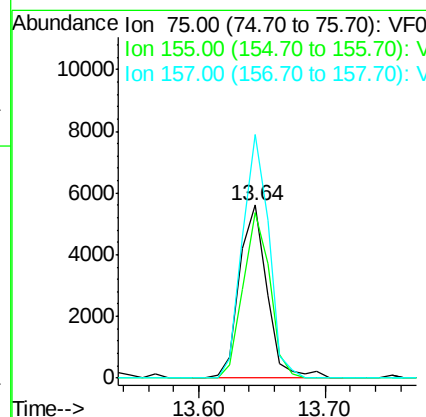
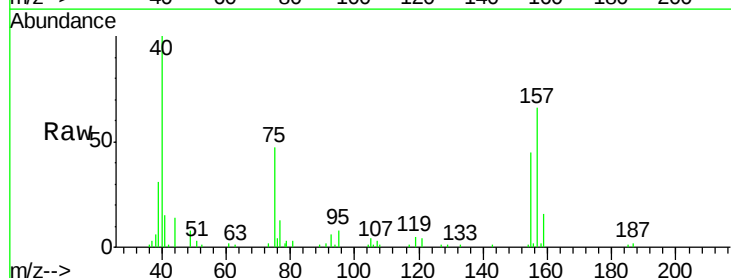
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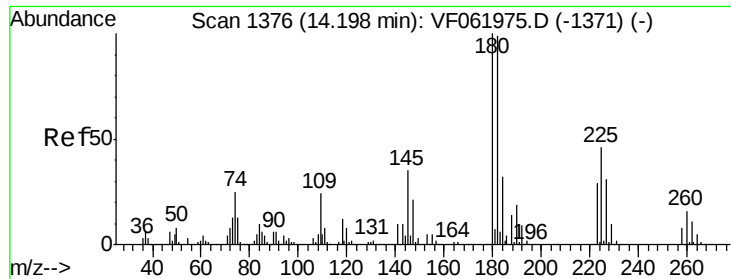
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.507 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.9	65.0	195.1
157	141.1	84.7	254.0





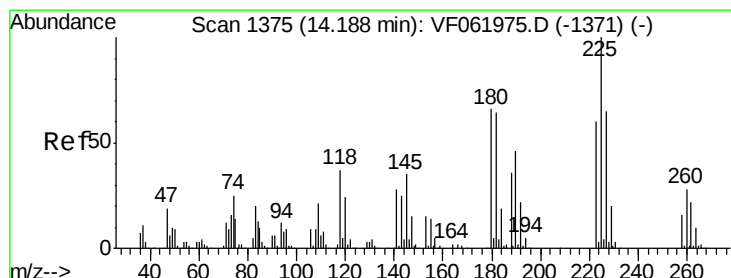
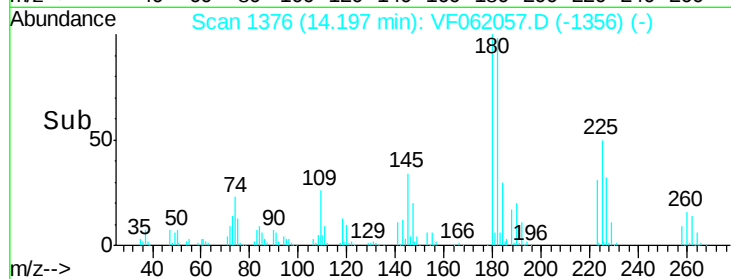
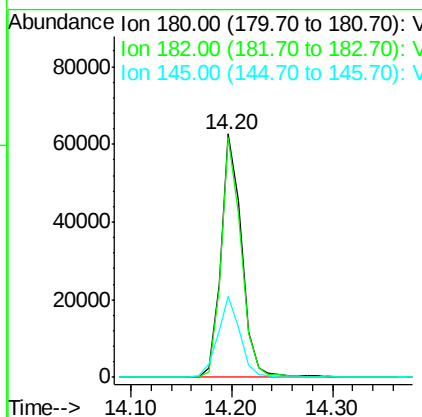
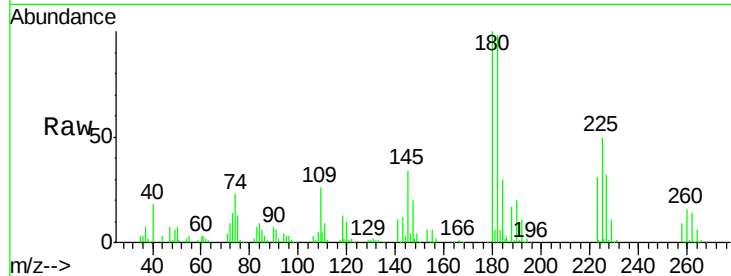
#93
 1,2,4-Trichlorobenzene
 Concen: 23.509 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0321SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.4	49.6	149.0
145	33.5	17.5	52.5

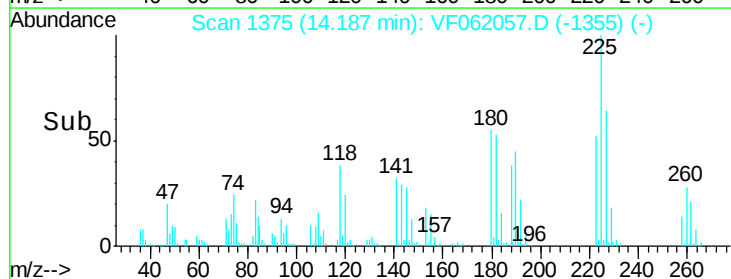
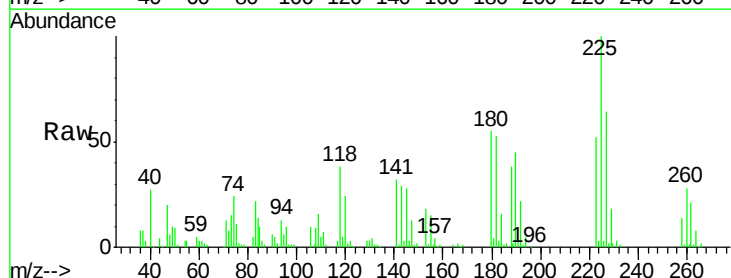
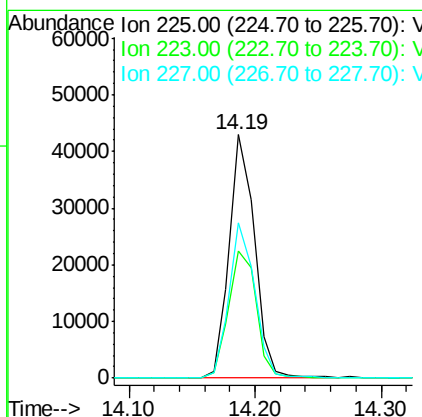
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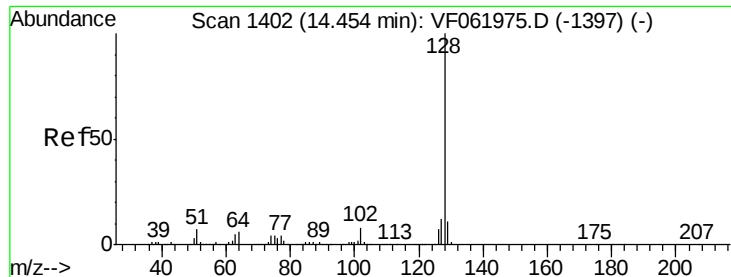
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 3/23/2019 2:59:14 AM



#94
 Hexachlorobutadiene
 Concen: 23.584 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF062057.D
 Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	52.2	29.9	89.7
227	63.8	32.4	97.2





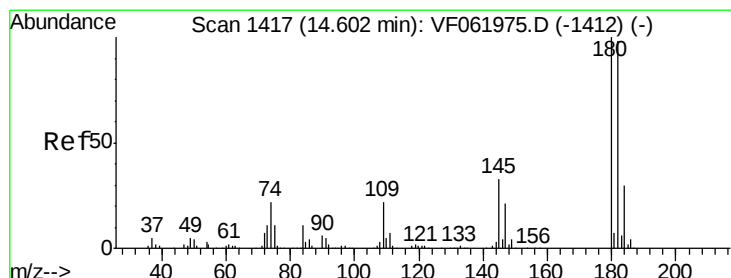
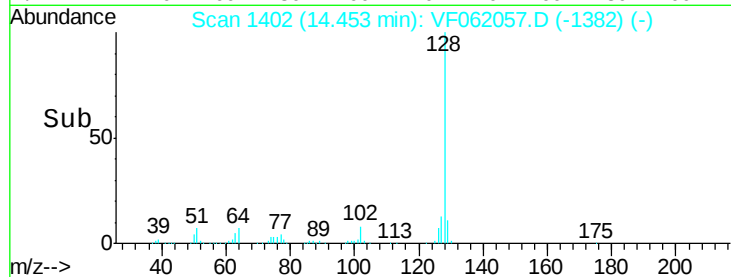
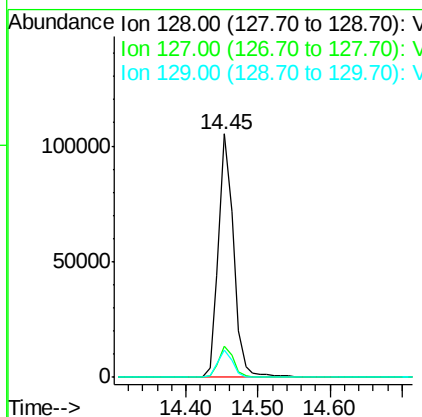
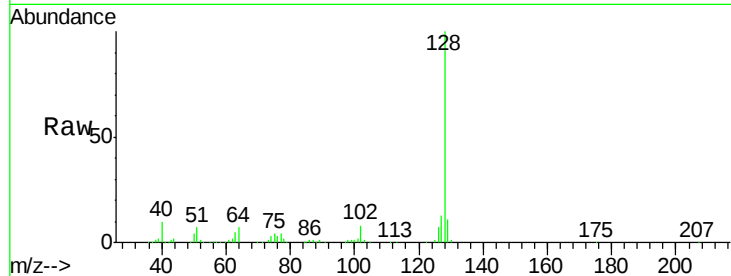
#95
Naphthalene
Concen: 22.231 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Instrument :
MSVOA_F
ClientSampleId :
VF0321SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	153113		
127	12.7		9.3	13.9
129	11.1		9.1	13.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 22.874 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF062057.D
Acq: 21 Mar 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	80588		
182	98.1		48.9	146.8
145	30.0		16.7	50.1

