

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012119\
 Data File : VF061471.D
 Acq On : 21 Jan 2019 14:02
 Operator : VA/AP
 Sample : VF0121SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0121SBSD01

Manual Integrations
 APPROVED

MMDadoda
 1/22/2019 2:50:26 PM

Quant Time: Jan 22 06:51:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	180478	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.59	114	315974	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	275268	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	142969	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	102315	45.92	ug/l	0.01
Spiked Amount 50.000			Recovery	=	91.84%	
35) Dibromofluoromethane	4.11	113	116522	46.73	ug/l	0.01
Spiked Amount 50.000			Recovery	=	93.46%	
50) Toluene-d8	7.56	98	320974	46.99	ug/l	0.01
Spiked Amount 50.000			Recovery	=	93.98%	
62) 4-Bromofluorobenzene	11.40	95	146547	45.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.82%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	70855	19.981	ug/l	98
3) Chloromethane	1.10	50	62573	24.065	ug/l	99
4) Vinyl Chloride	1.14	62	56627	24.482	ug/l	97
5) Bromomethane	1.32	94	33497	22.209	ug/l	86
6) Chloroethane	1.38	64	24487	23.892	ug/l	98
7) Trichlorofluoromethane	1.47	101	93679	20.834	ug/l	96
8) Diethyl Ether	1.63	74	13270	23.032	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.82	101	50211	23.240	ug/l	96
10) Methyl Iodide	1.90	142	77848m	23.242	ug/l	
11) Tert butyl alcohol	2.57	59	9642	102.230	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	40169	25.025	ug/l	88
13) Acrolein	1.99	56	7695	101.141	ug/l	96
14) Allyl chloride	2.09	41	60123	34.814	ug/l	97
15) Acrylonitrile	2.94	53	28703	118.807	ug/l	91
16) Acetone	2.23	43	59367	132.809	ug/l	99
17) Carbon Disulfide	1.81	76	121980	24.372	ug/l	98
18) Methyl Acetate	2.34	43	21756	24.542	ug/l	92
19) Methyl tert-butyl Ether	2.43	73	73445	20.411	ug/l	99
20) Methylene Chloride	2.18	84	54122m	35.146	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	39635	22.443	ug/l	94
22) Diisopropyl ether	2.79	45	137300	24.036	ug/l	98
23) Vinyl Acetate	3.19	43	301486	121.654	ug/l	99
24) 1,1-Dichloroethane	2.87	63	81352	22.691	ug/l	97
25) 2-Butanone	4.32	43	88958	119.670	ug/l	97
26) 2,2-Dichloropropane	3.60	77	49824	22.620	ug/l	95
27) cis-1,2-Dichloroethene	3.47	96	59015	22.637	ug/l	95
28) Bromochloromethane	3.72	49	36664	22.751	ug/l #	99
29) Tetrahydrofuran	4.08	42	34256	107.022	ug/l	96
30) Chloroform	3.86	83	106246	21.959	ug/l	98
31) Cyclohexane	3.69	56	87550	24.447	ug/l	93
32) 1,1,1-Trichloroethane	4.09	97	82125	23.149	ug/l	97
36) 1,1-Dichloropropene	4.28	75	82073	22.403	ug/l #	94
37) Ethyl Acetate	4.11	43	29947	20.449	ug/l #	93
38) Carbon Tetrachloride	3.99	117	69750	21.778	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	96364	24.271	ug/l	94
40) Benzene	4.64	78	195980	24.041	ug/l	99
41) Methacrylonitrile	4.75	41	17913	22.988	ug/l	95
42) 1,2-Dichloroethane	4.94	62	60922	20.972	ug/l	98
43) Isopropyl Acetate	6.96	43	40549	22.062	ug/l #	94
44) Trichloroethene	5.51	130	58002	23.194	ug/l	98
45) 1,2-Dichloropropane	6.24	63	50398	23.556	ug/l	92
46) Dibromomethane	6.09	93	29236	20.550	ug/l	93
47) Bromodichloromethane	6.38	83	74788	21.247	ug/l	98
48) Methyl methacrylate	6.72	41	24101	19.527	ug/l #	87
49) 1,4-Dioxane	6.70	88	3380	347.002	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	158225	117.099	ug/l	98
52) Toluene	7.63	92	108656	20.240	ug/l	97
53) t-1,3-Dichloropropene	8.28	75	61374	21.958	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	78837	22.565	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	33749	22.138	ug/l	97
56) Ethyl methacrylate	8.62	69	39248	22.129	ug/l	92
57) 1,3-Dichloropropane	8.85	76	61227	21.427	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.29	63	20635	126.255	ug/l	94
59) 2-Hexanone	9.49	43	118116	125.359	ug/l	100
60) Dibromochloromethane	8.71	129	46647	20.930	ug/l	94
61) 1,2-Dibromoethane	8.98	107	37221	21.328	ug/l	98
64) Tetrachloroethene	8.16	164	45500	21.980	ug/l	92
65) Chlorobenzene	9.80	112	128055	22.876	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.92	131	52084	23.357	ug/l	96
67) Ethyl Benzene	9.90	91	242593	23.720	ug/l	100
68) m/p-Xylenes	10.13	106	176791	48.061	ug/l	100
69) o-Xylene	10.71	106	95942	24.065	ug/l	95
70) Styrene	10.78	104	127866	23.430	ug/l	98
71) Bromoform	10.77	173	22380	22.337	ug/l #	98
73) Isopropylbenzene	11.13	105	287003	24.682	ug/l	99
74) N-amyl acetate	11.37	43	69372	25.230	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.69	83	48852	23.583	ug/l	96
76) 1,2,3-Trichloropropane	11.80	75	33101	22.238	ug/l	87
77) Bromobenzene	11.49	156	58092	23.656	ug/l	91
78) n-propylbenzene	11.59	91	334955	22.198	ug/l	97
79) 2-Chlorotoluene	11.72	91	187409	23.229	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	231197	24.638	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	15908m	24.586	ug/l	
82) 4-Chlorotoluene	11.90	91	185217	22.750	ug/l	97
83) tert-Butylbenzene	12.13	119	224918	23.157	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	217287	22.480	ug/l	95
85) sec-Butylbenzene	12.30	105	332358	25.198	ug/l	94
86) p-Isopropyltoluene	12.46	119	263847	24.368	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	109559	21.266	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	105530	22.741	ug/l	99
89) n-Butylbenzene	12.84	91	272508	24.404	ug/l	98
90) Hexachloroethane	12.91	117	60667	23.769	ug/l	89
91) 1,2-Dichlorobenzene	12.94	146	101331	22.058	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7572	20.609	ug/l	80

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	69329	21.543	ug/l	100
94) Hexachlorobutadiene	14.19	225	43449	21.758	ug/l	98
95) Naphthalene	14.45	128	118215	19.335	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	56151	18.849	ug/l	96

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

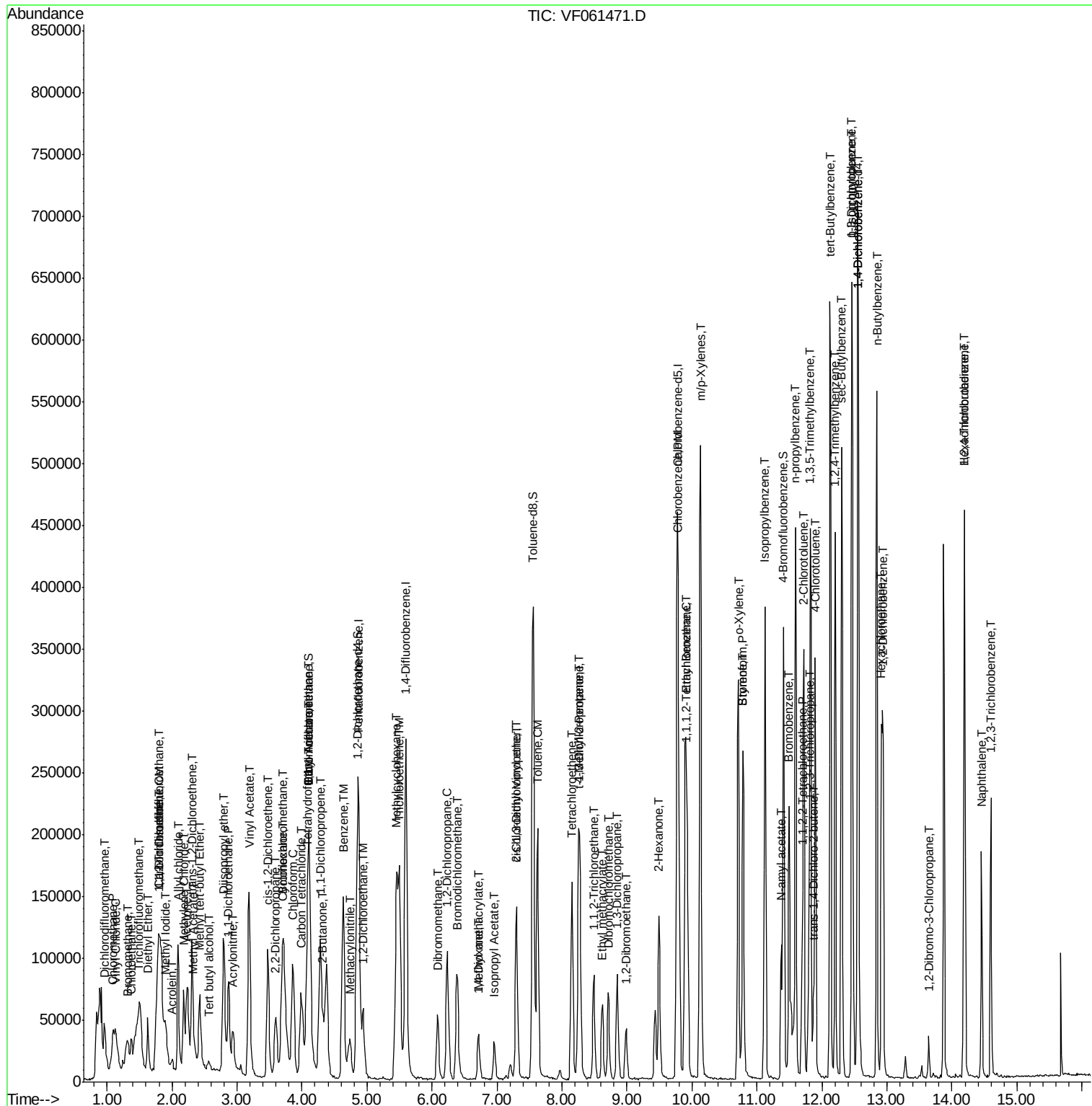
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 Data File : VF061471.D
 Acq On : 21 Jan 2019 14:02
 Operator : VA/AP
 Sample : VF0121SBSD01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

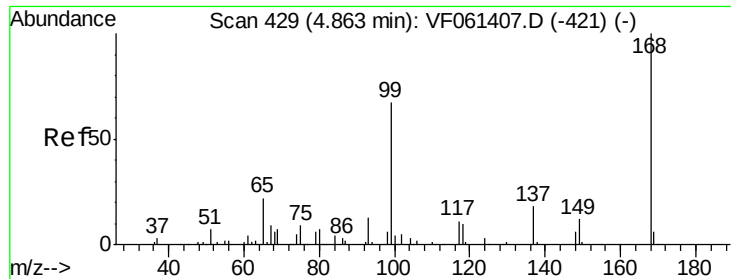
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0121SBSD01

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion:168 Resp: 180478

Ion Ratio Lower Upper

168 100

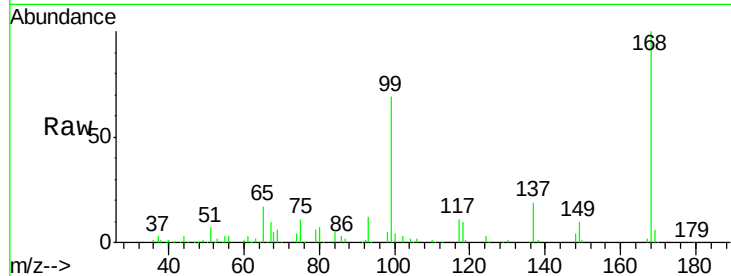
99 68.6 53.5 80.3

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

60000

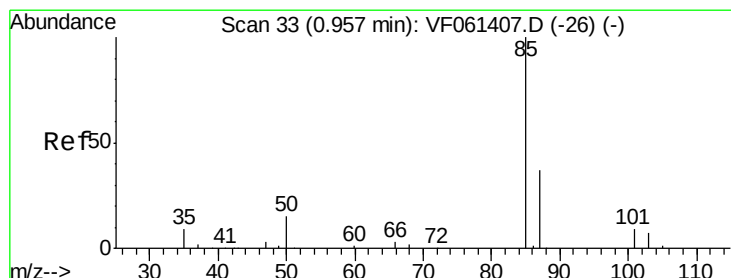
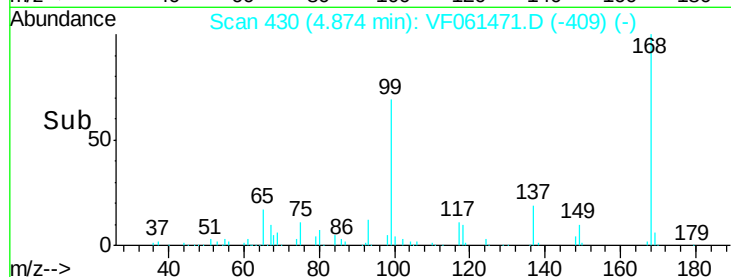
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.981 ug/l

RT: 0.96 min Scan# 33

Delta R.T. 0.00 min

Lab File: VF061471.D

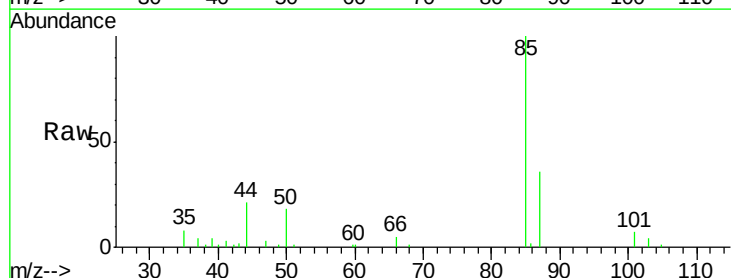
Acq: 21 Jan 2019 14:02

Tgt Ion: 85 Resp: 70855

Ion Ratio Lower Upper

85 100

87 35.6 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

25000

20000

15000

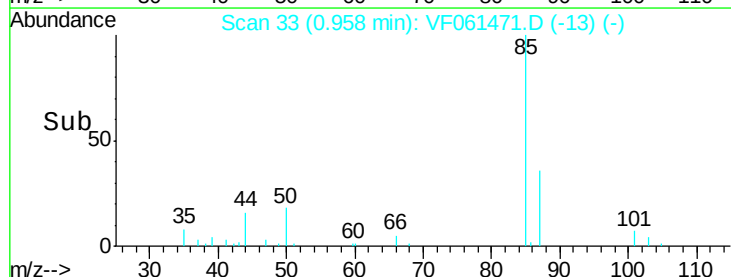
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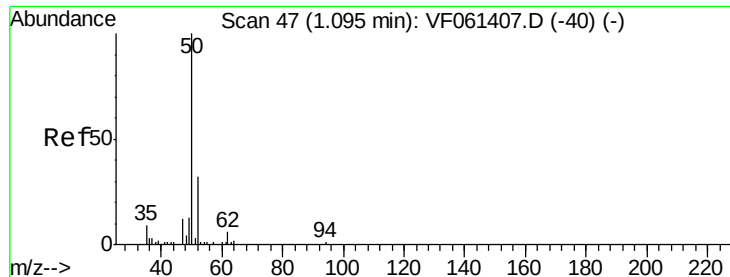
5000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 24.065 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 50 Resp: 62573

Ion Ratio Lower Upper

50 100

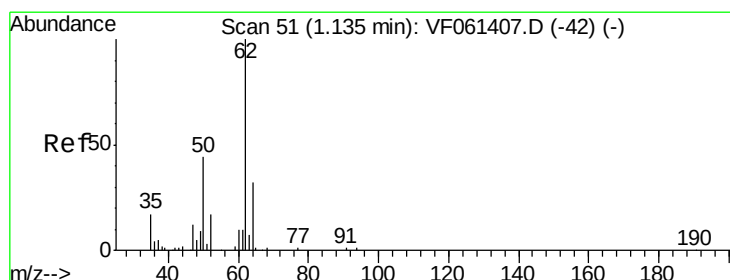
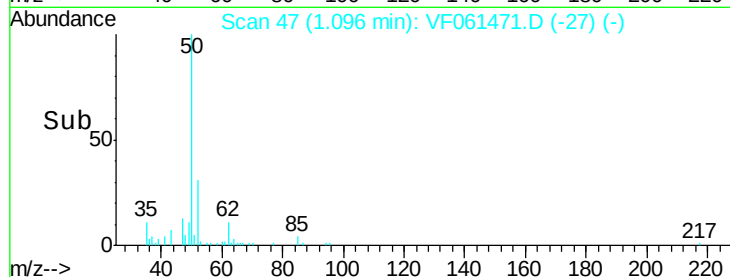
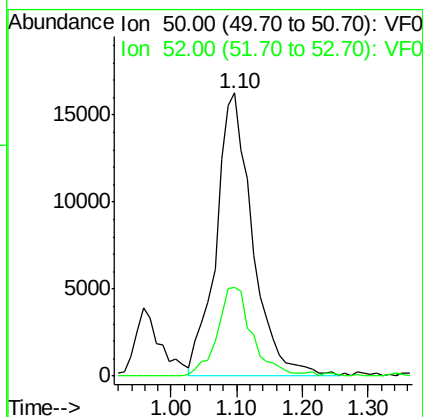
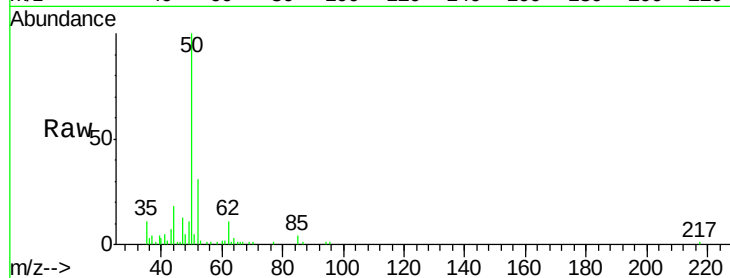
52 31.2 24.6 36.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 24.482 ug/l

RT: 1.14 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF061471.D

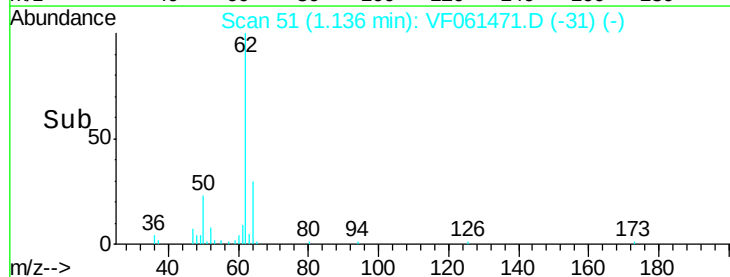
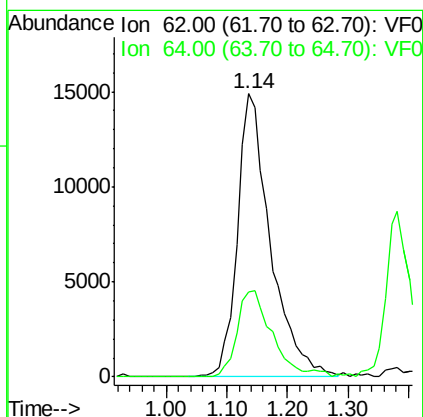
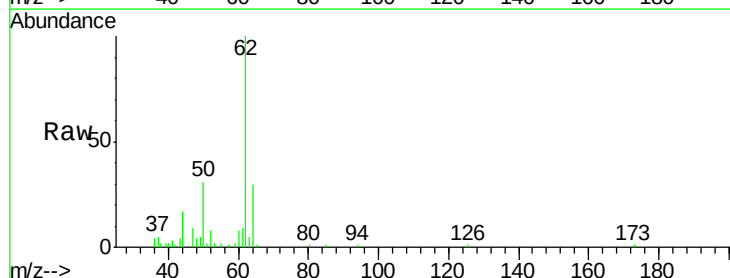
Acq: 21 Jan 2019 14:02

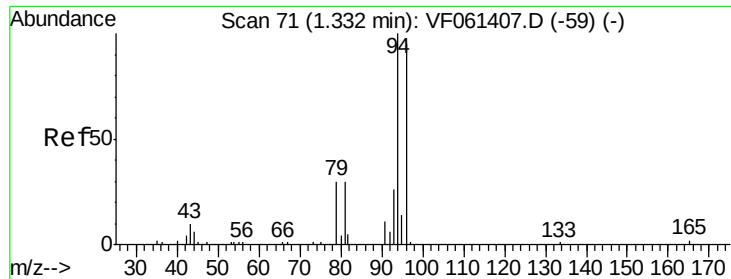
Tgt Ion: 62 Resp: 56627

Ion Ratio Lower Upper

62 100

64 30.2 25.6 38.4





#5

Bromomethane

Concen: 22.209 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 94 Resp: 33497

Ion Ratio Lower Upper

94 100

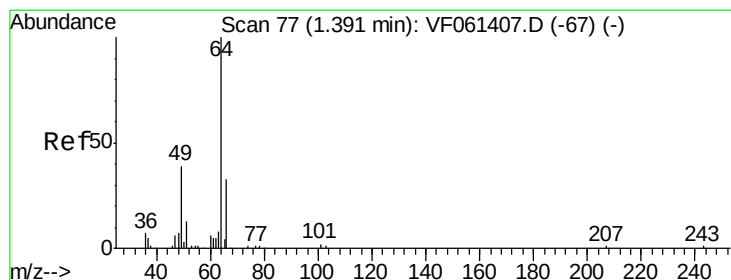
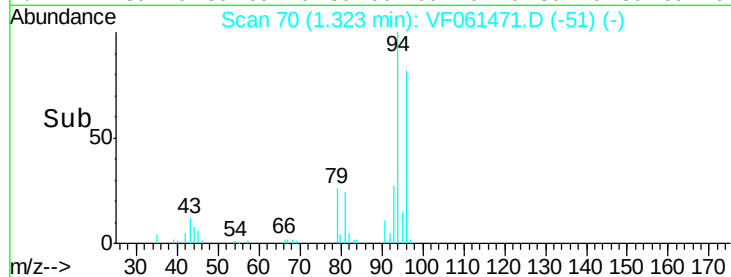
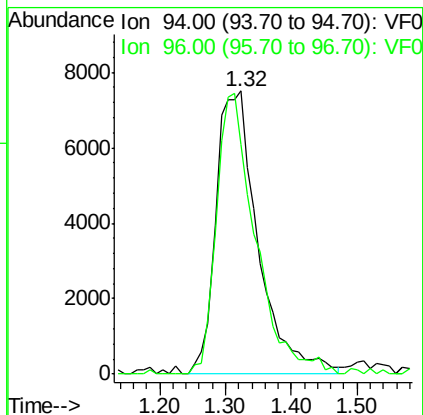
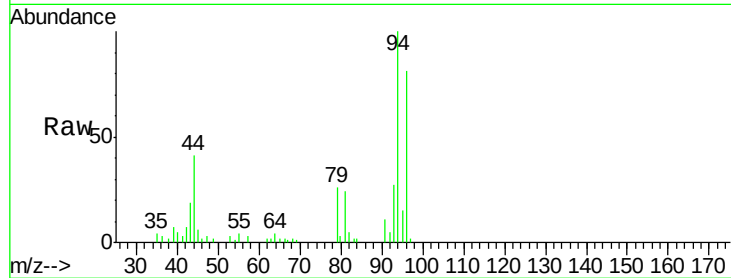
96 81.0 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 23.892 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061471.D

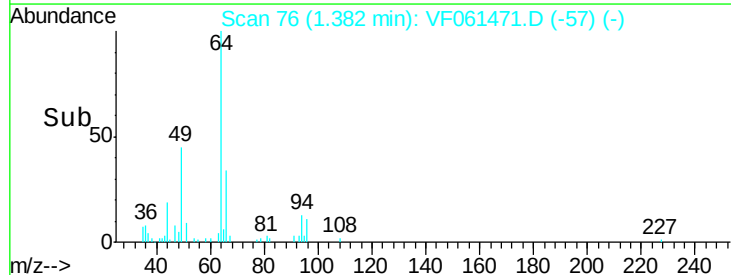
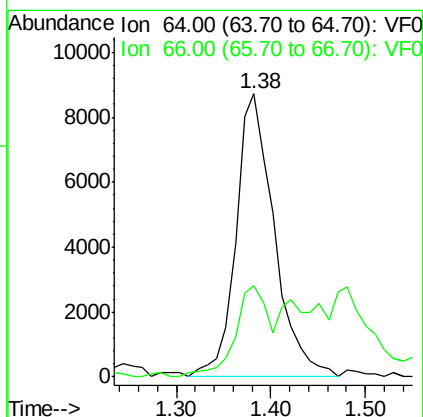
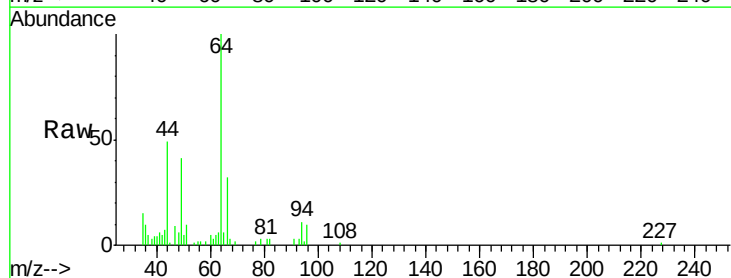
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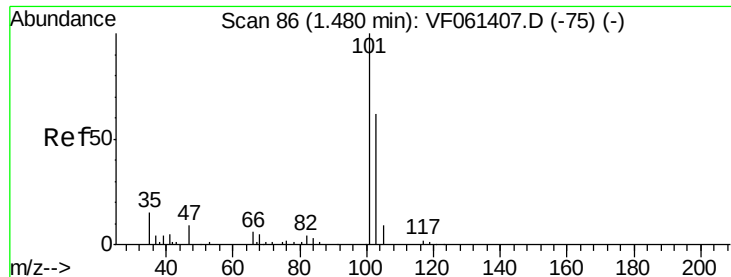
Tgt Ion: 64 Resp: 24487

Ion Ratio Lower Upper

64 100

66 32.3 26.6 40.0





#7

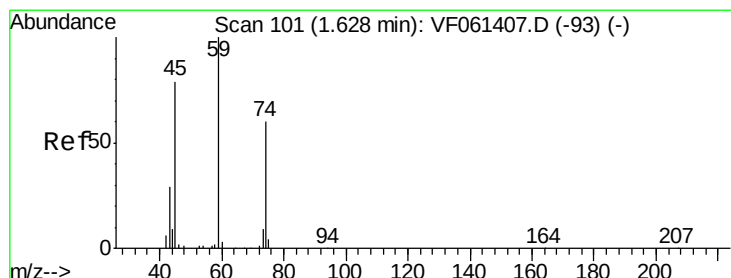
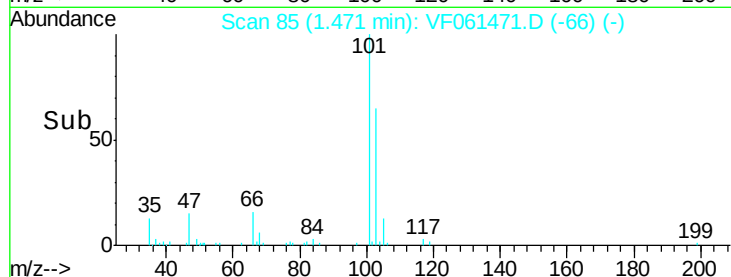
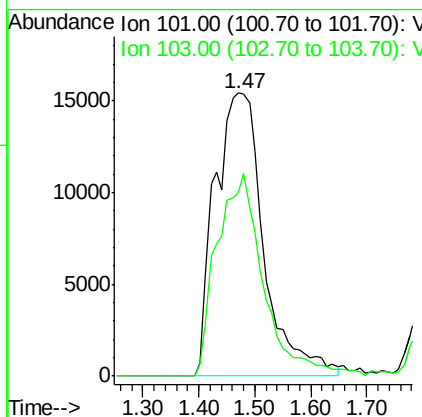
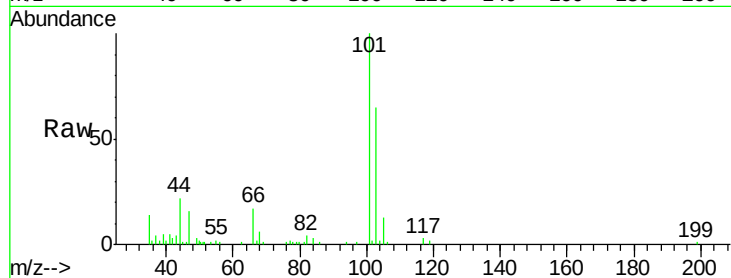
Trichlorofluoromethane
Concen: 20.834 ug/l
RT: 1.47 min Scan# 85
Delta R.T. -0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion:101 Resp: 93679
Ion Ratio Lower Upper
101 100
103 64.8 49.7 74.5

Manual Integrations
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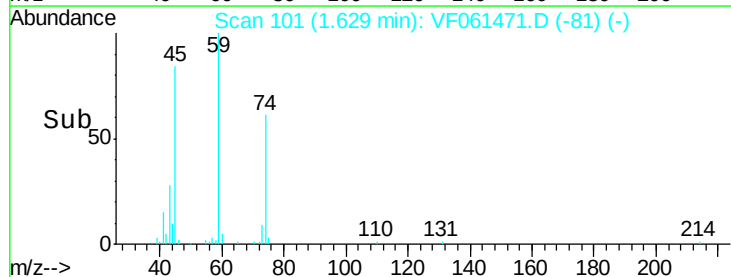
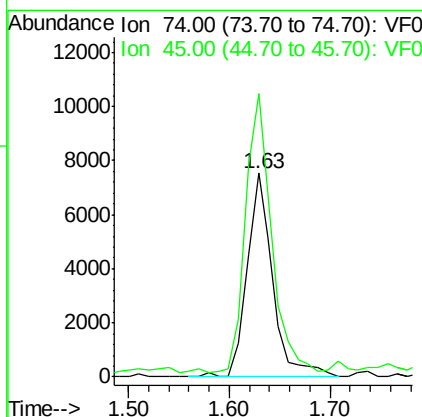
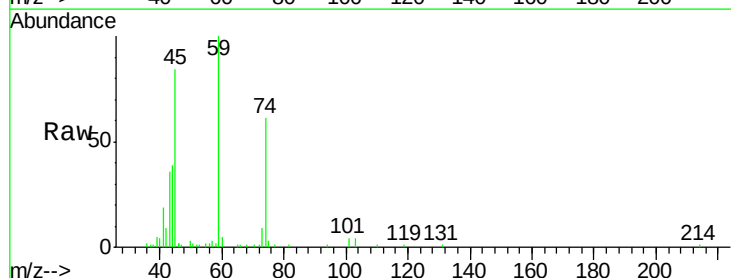
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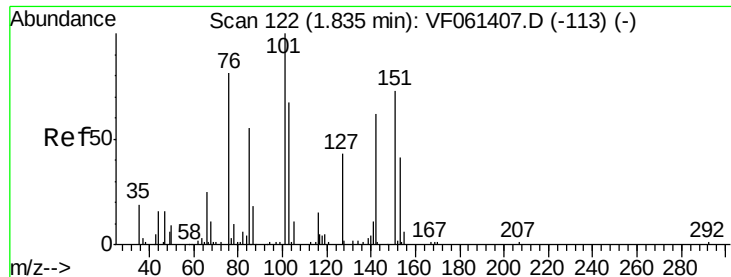


#8

Diethyl Ether
Concen: 23.032 ug/l
RT: 1.63 min Scan# 101
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion: 74 Resp: 13270
Ion Ratio Lower Upper
74 100
45 138.9 65.8 197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.240 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

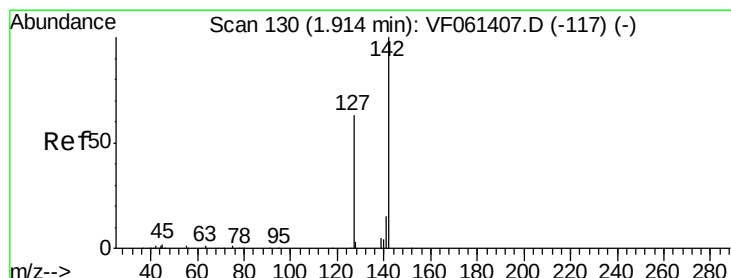
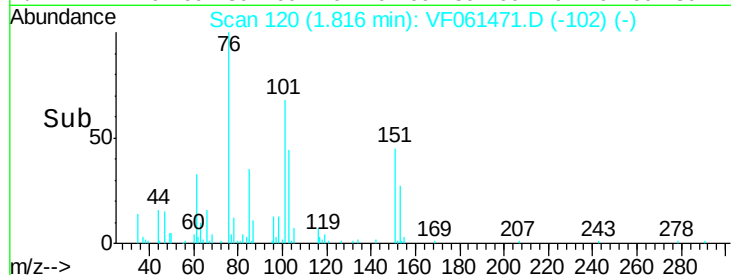
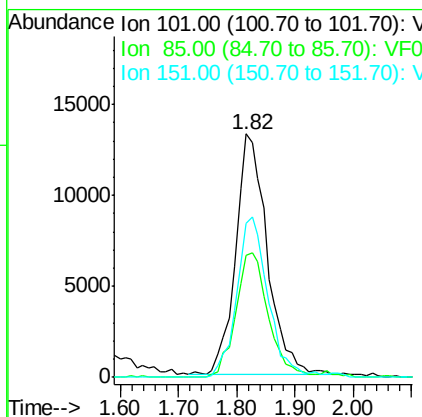
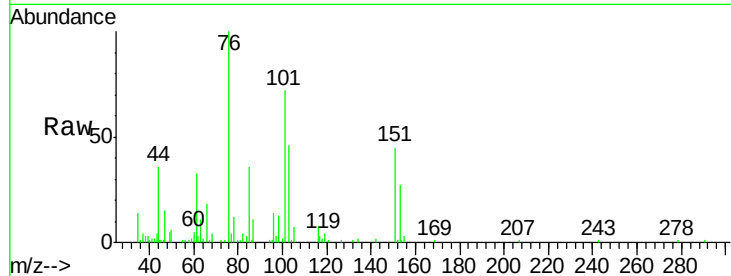
ClientSampleId :

VF0121SBS01

Tot Ion:	101	Resp:	50211
Ion Ratio	Lower	Upper	
101	100		
85	50.2	41.9	62.9
151	64.8	55.1	82.7

Manual Integrations
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#10

Methyl Iodide

Concen: 23.242 ug/l m

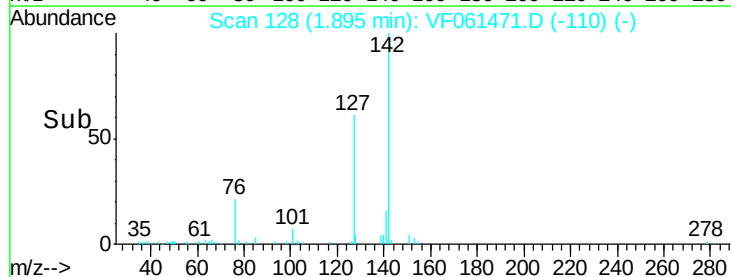
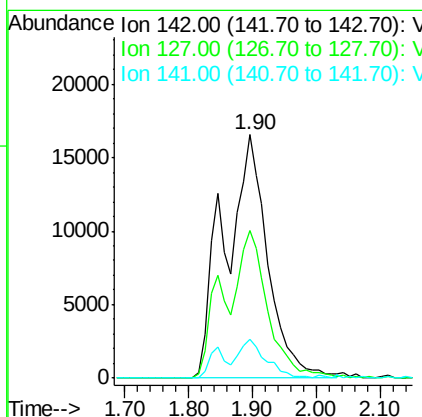
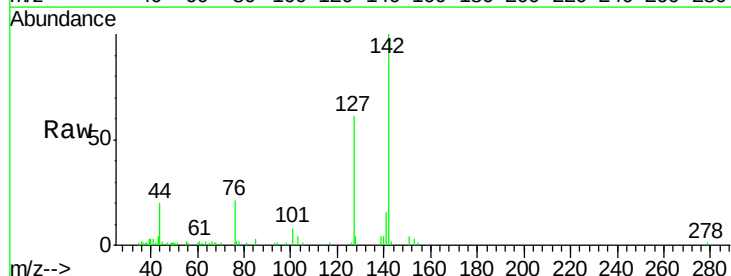
RT: 1.90 min Scan# 128

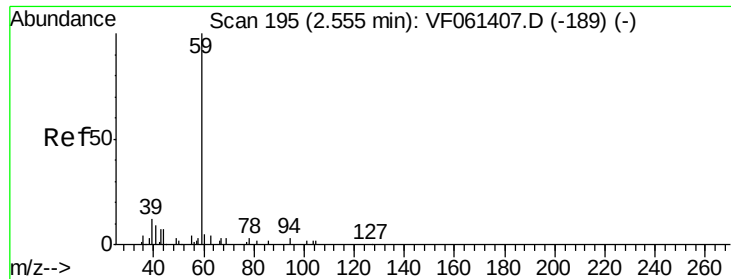
Delta R.T. -0.02 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	142	Resp:	77848
Ion Ratio	Lower	Upper	
142	100		
127	60.8	50.7	76.1
141	15.8	11.8	17.6





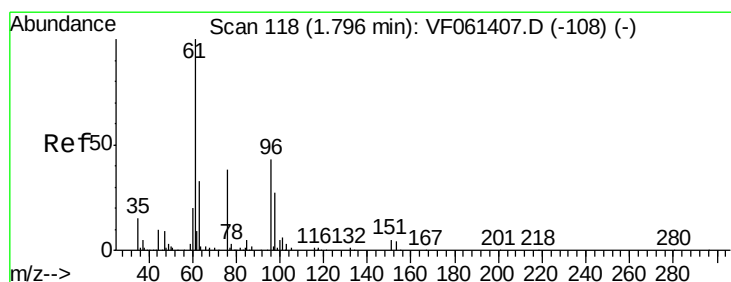
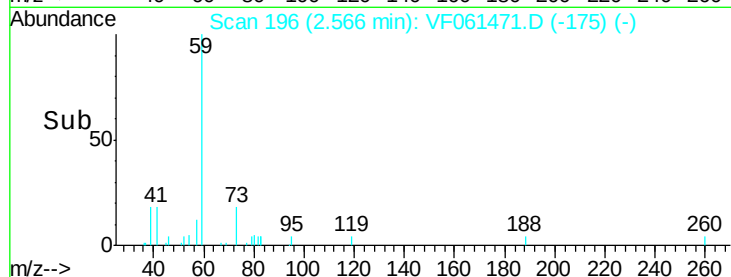
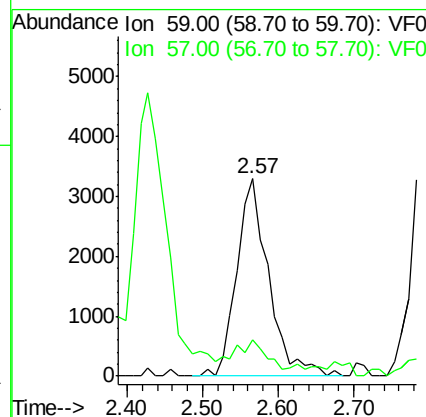
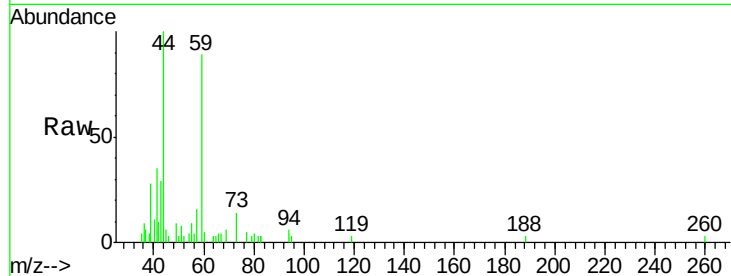
#11
Tert butyl alcohol
Concen: 102.230 ug/l
RT: 2.57 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion: 59 Resp: 9642
Ion Ratio Lower Upper
59 100
57 18.3 11.9 17.9#

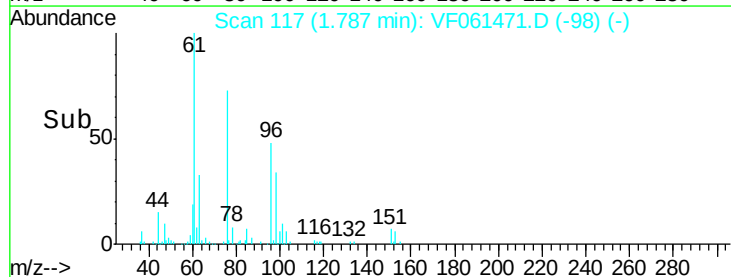
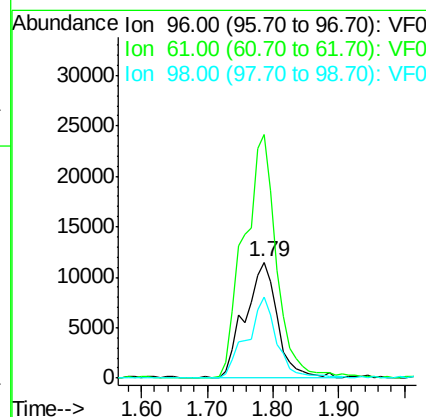
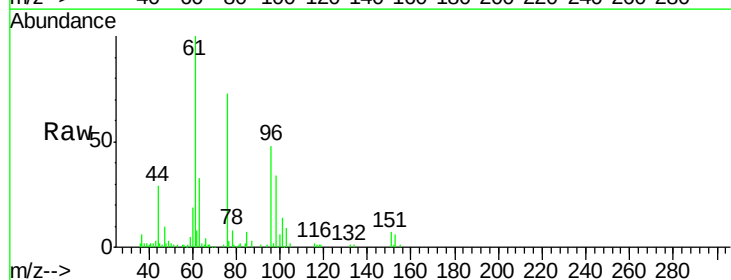
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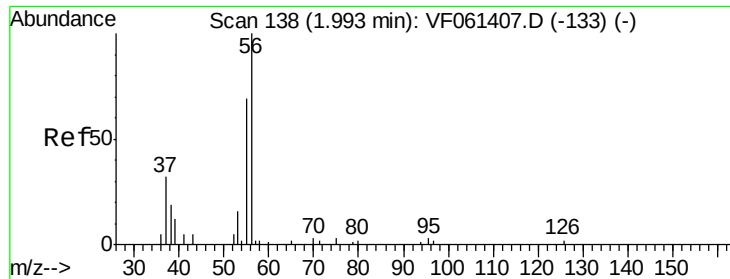
MMDadoda
1/22/2019 2:50:26 PM



#12
1,1-Dichloroethene
Concen: 25.025 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion: 96 Resp: 40169
Ion Ratio Lower Upper
96 100
61 209.4 186.9 280.3
98 70.2 53.0 79.4





#13

Acrolein

Concen: 101.141 ug/l

RT: 1.99 min Scan# 138

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 56 Resp: 7695

Ion Ratio Lower Upper

56 100

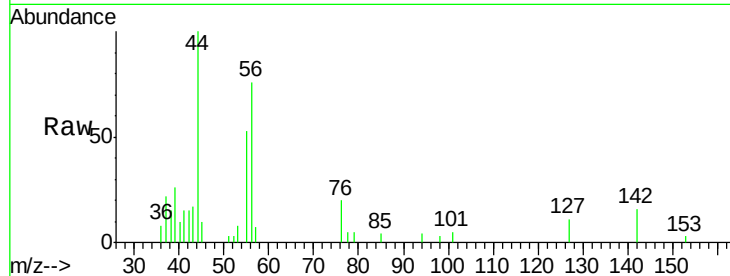
55 68.9 57.5 86.3

Manual Integrations

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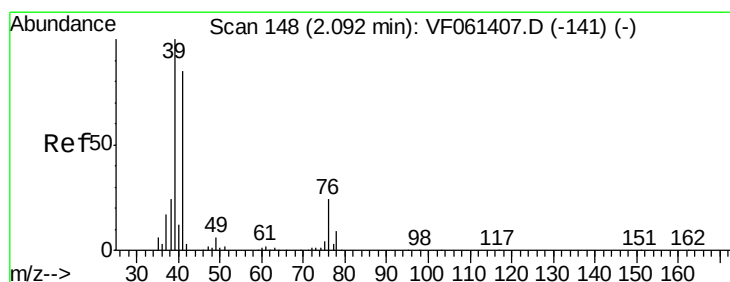
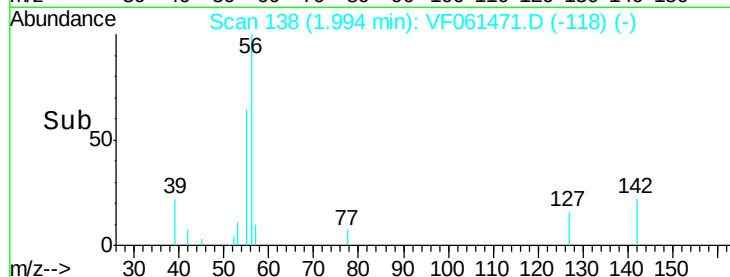
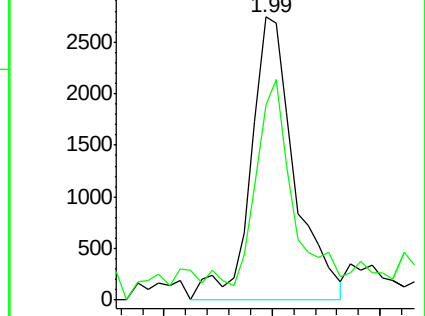
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 34.814 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

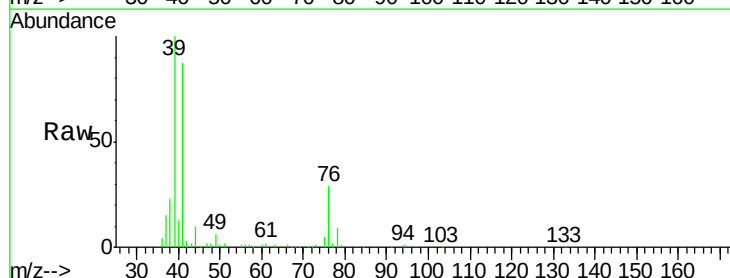
Tgt Ion: 41 Resp: 60123

Ion Ratio Lower Upper

41 100

39 114.8 94.6 141.8

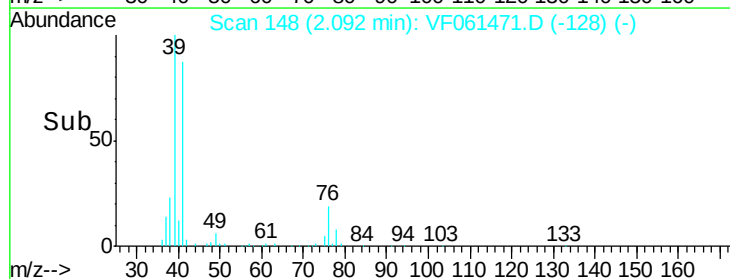
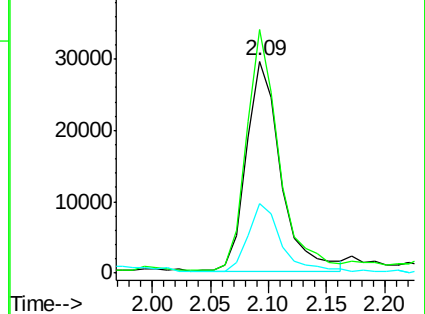
76 32.7 25.9 38.9

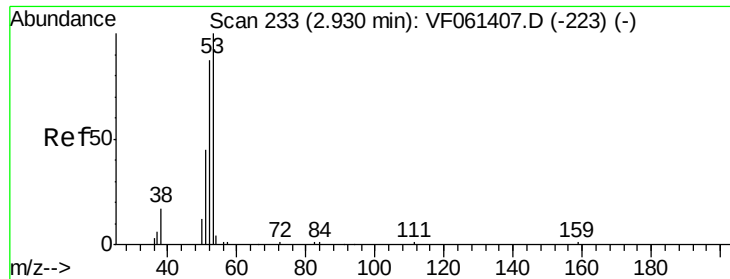


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 118.807 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

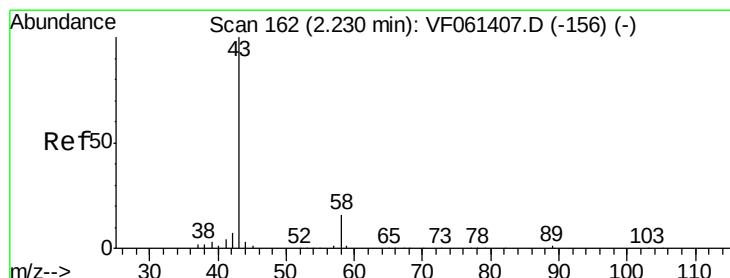
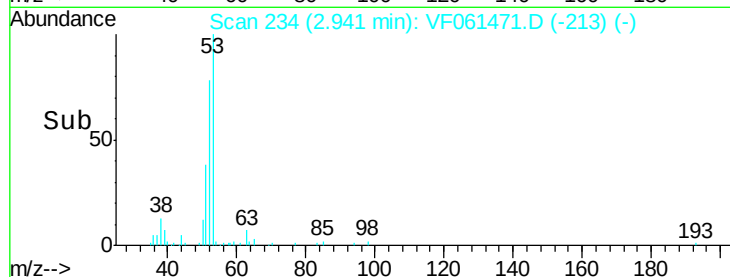
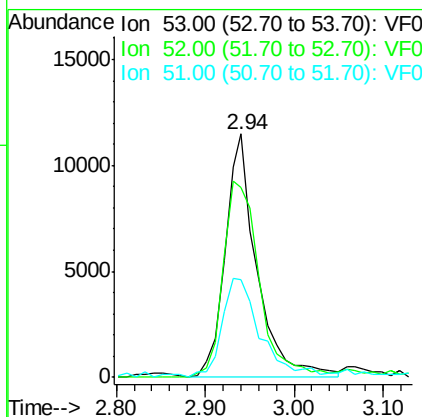
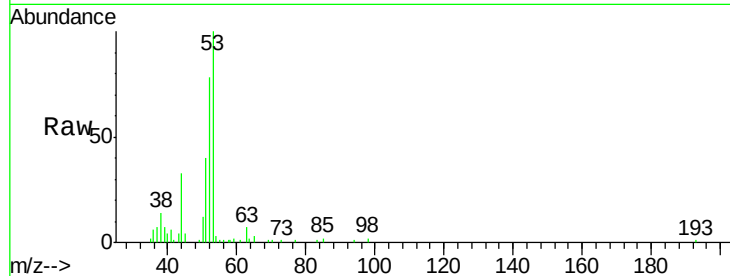
ClientSampleId :

VF0121SBS01

Tot Ion:	53	Resp:	28703
Ion	Ratio	Lower	Upper
53	100		
52	78.0	69.6	104.4
51	40.1	36.8	55.2

Manual Integrations
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#16

Acetone

Concen: 132.809 ug/l

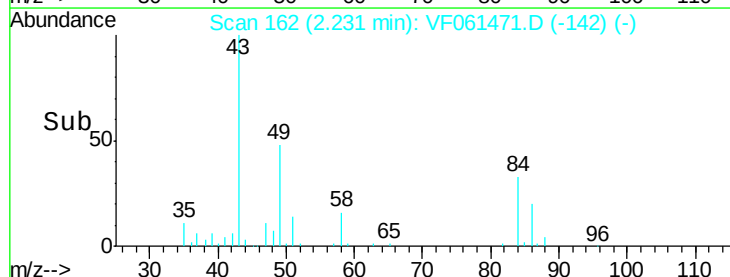
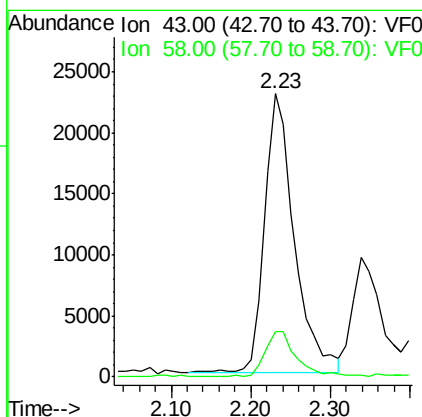
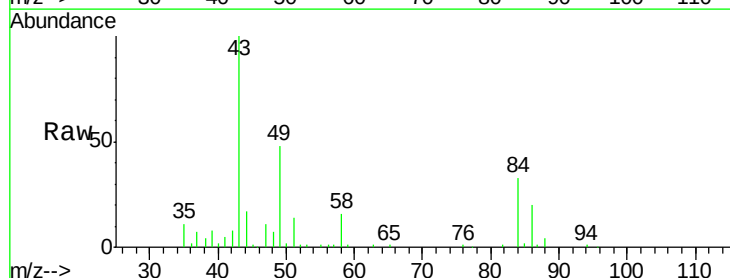
RT: 2.23 min Scan# 162

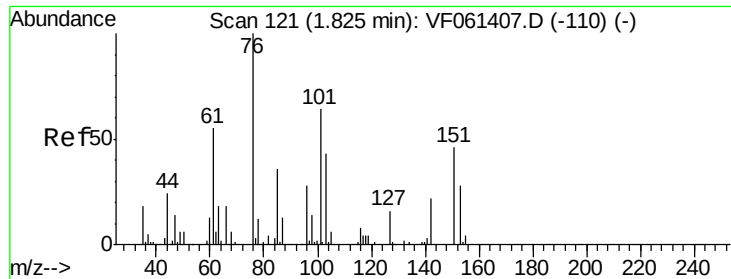
Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	43	Resp:	59367
Ion	Ratio	Lower	Upper
43	100		
58	16.1	13.3	19.9





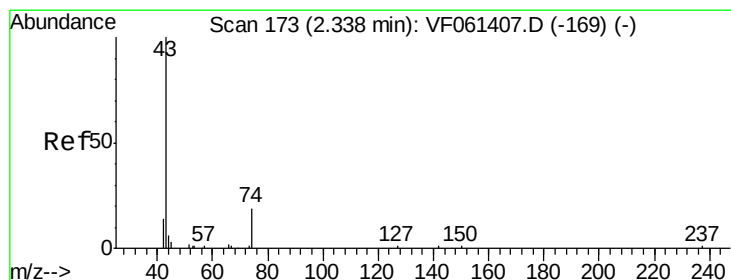
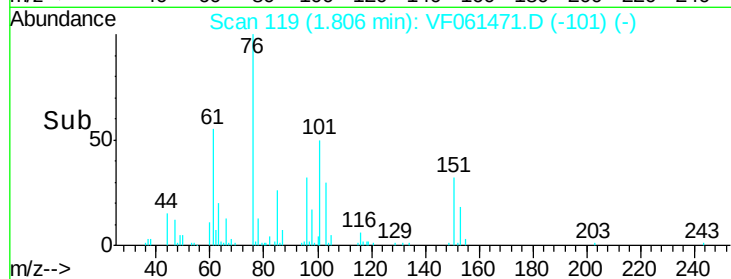
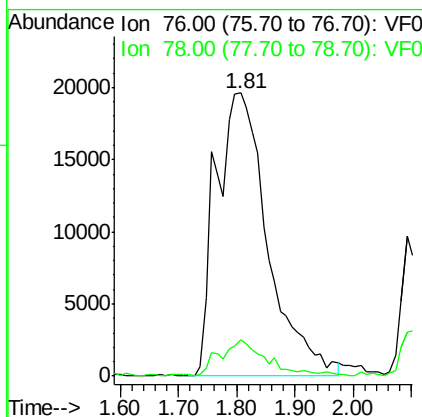
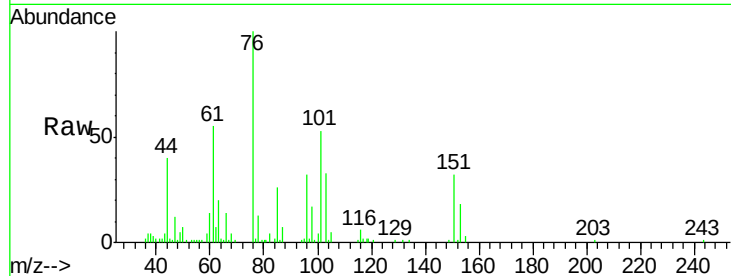
#17
Carbon Disulfide
Concen: 24.372 ug/l
RT: 1.81 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion: 76 Resp: 121980
Ion Ratio Lower Upper
76 100
78 12.7 9.6 14.4

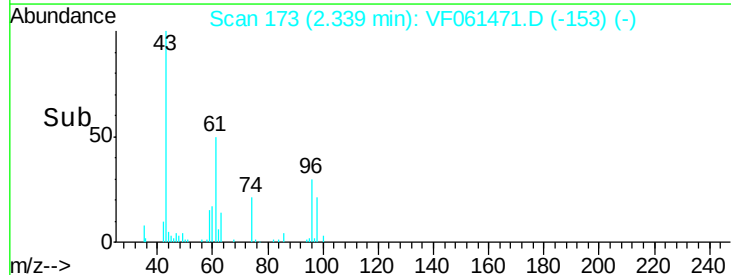
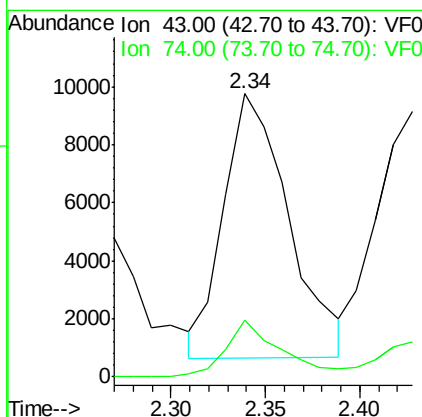
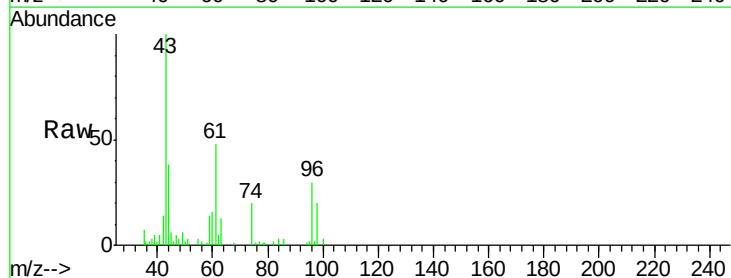
Manual Integrations
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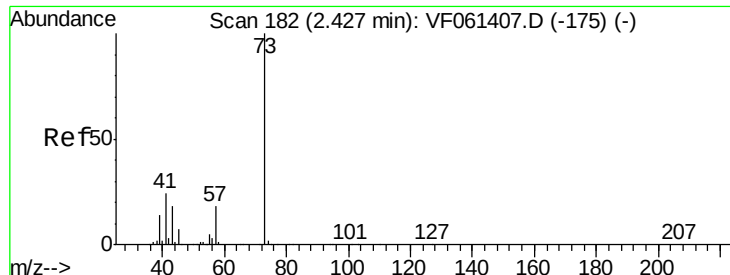
MMDadoda
1/22/2019 2:50:26 PM



#18
Methyl Acetate
Concen: 24.542 ug/l
RT: 2.34 min Scan# 173
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion: 43 Resp: 21756
Ion Ratio Lower Upper
43 100
74 20.0 13.4 20.0





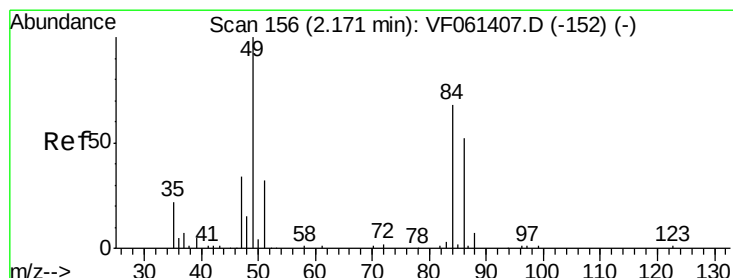
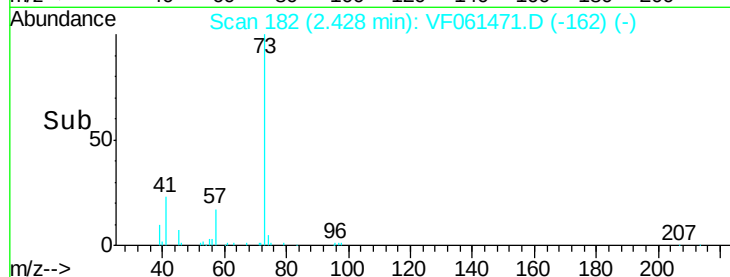
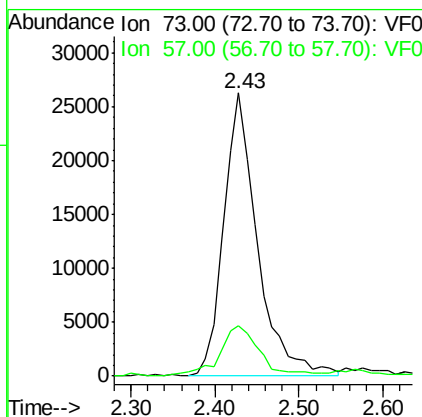
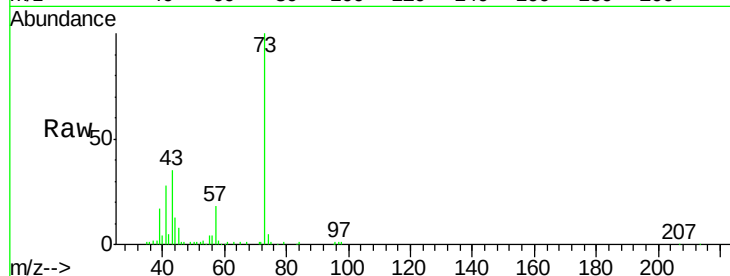
#19
Methyl tert-butyl Ether
Concen: 20.411 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.0	14.8	22.2

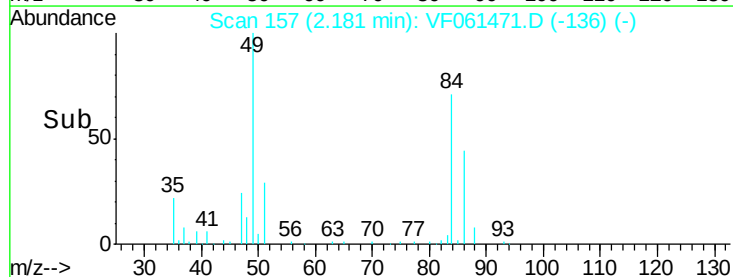
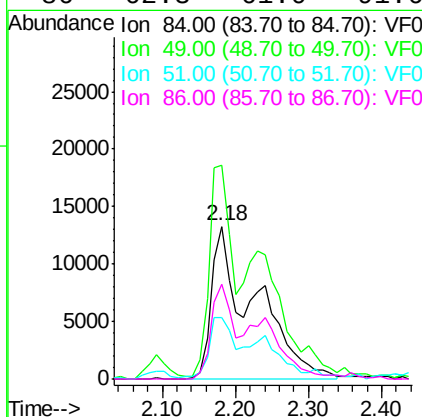
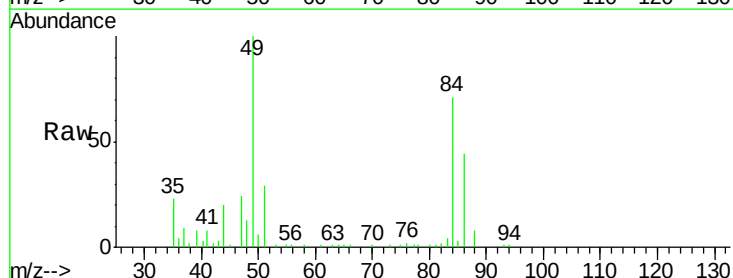
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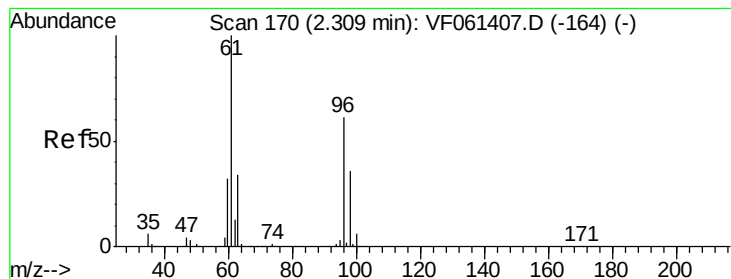
MMDadoda
1/22/2019 2:50:26 PM



#20
Methylene Chloride
Concen: 35.146 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.2	120.0	180.0
51	40.1	38.6	58.0
86	62.3	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 22.443 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

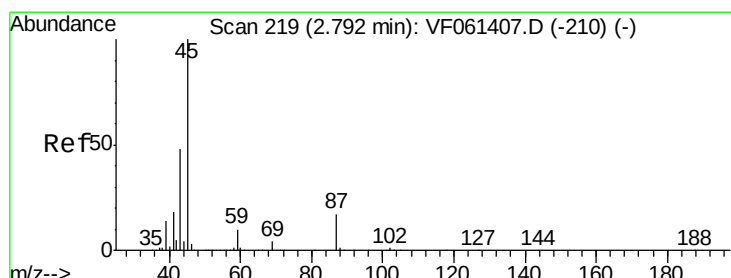
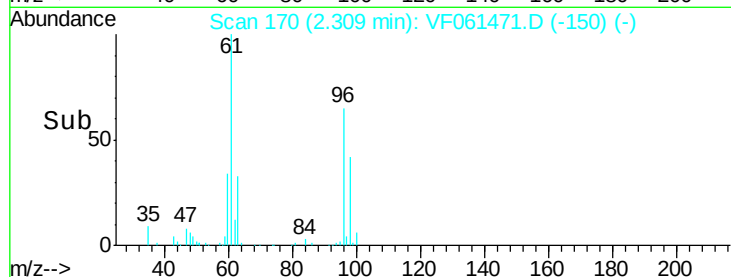
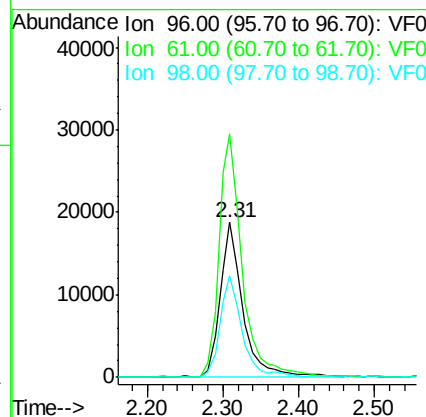
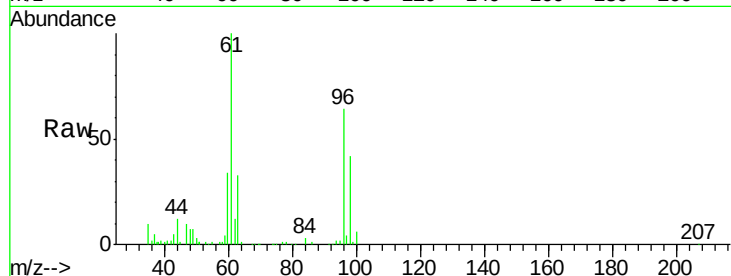
ClientSampleId :

VF0121SBS01

Tot Ion:	96	Resp:	39635
Ion	Ratio	Lower	Upper
96	100		
61	156.9	131.8	197.8
98	65.3	47.4	71.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 24.036 ug/l

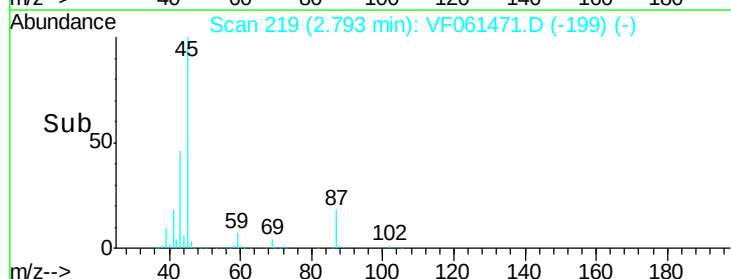
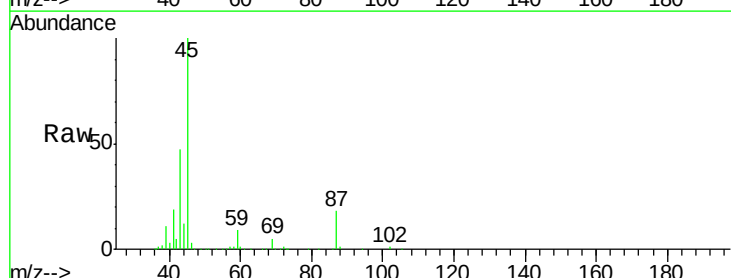
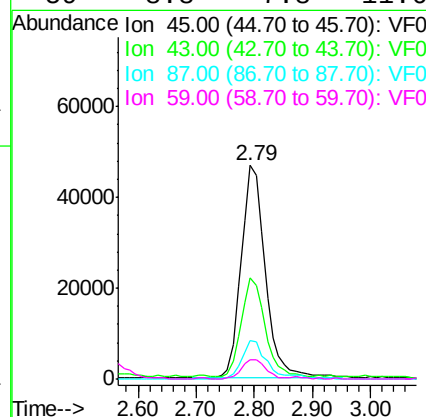
RT: 2.79 min Scan# 219

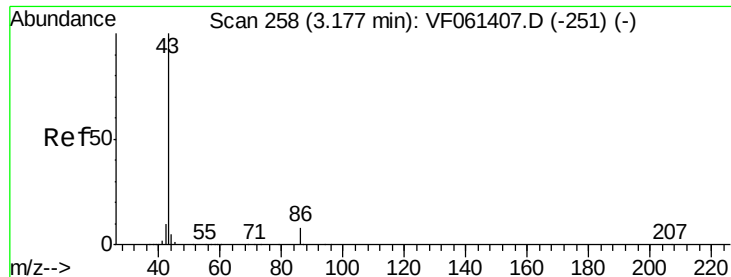
Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	45	Resp:	137300
Ion	Ratio	Lower	Upper
45	100		
43	47.5	39.0	58.6
87	17.9	13.9	20.9
59	8.8	7.8	11.6





#23

Vinyl Acetate

Concen: 121.654 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleID :

VF0121SBS01

Tot Ion: 43 Resp: 301486

Ion Ratio Lower Upper

43 100

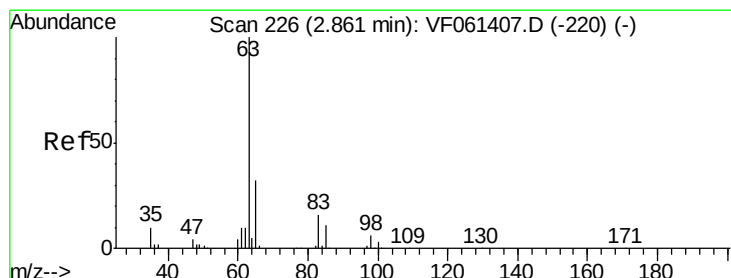
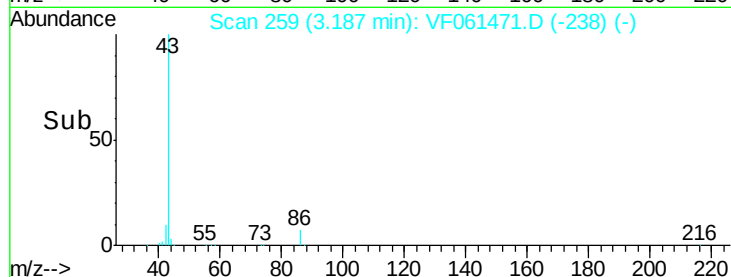
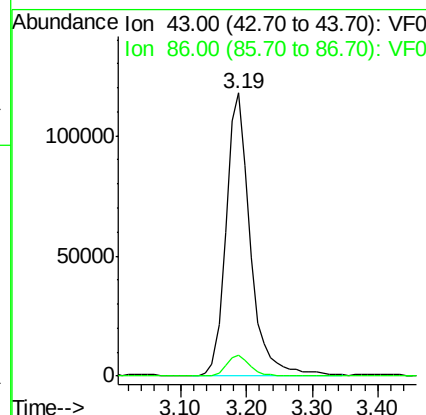
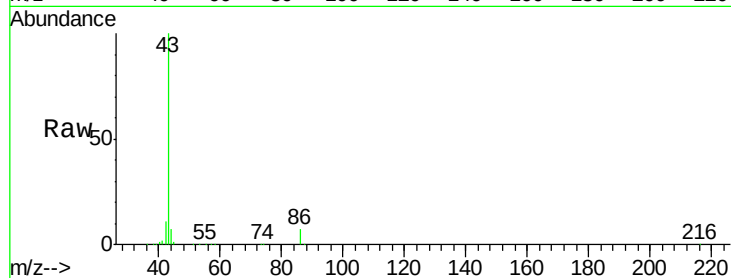
86 7.4 6.2 9.4

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 22.691 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

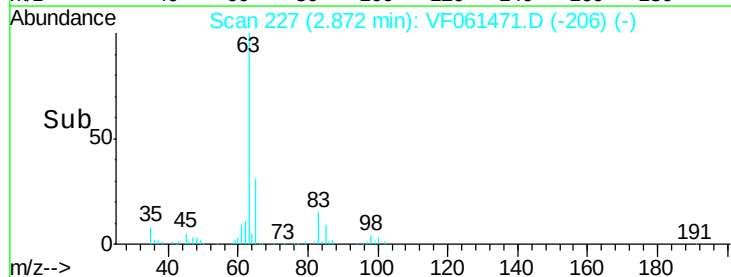
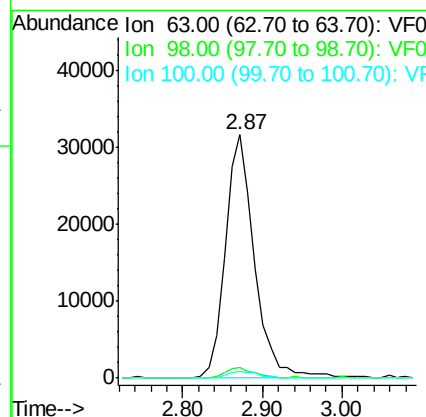
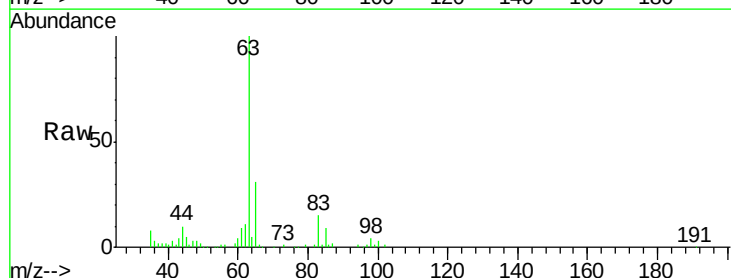
Tgt Ion: 63 Resp: 81352

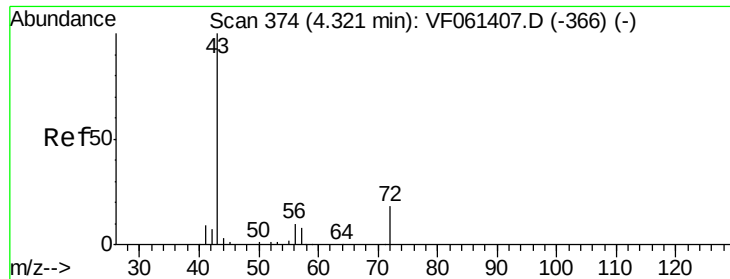
Ion Ratio Lower Upper

63 100

98 4.2 2.9 8.8

100 3.0 1.6 4.8





#25

2-Butanone

Concen: 119.670 ug/l

RT: 4.32 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 43 Resp: 88958

Ion Ratio Lower Upper

43 100

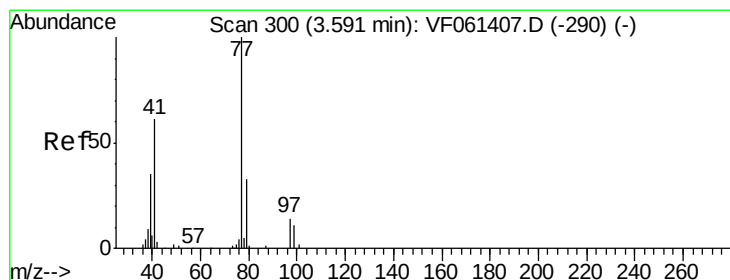
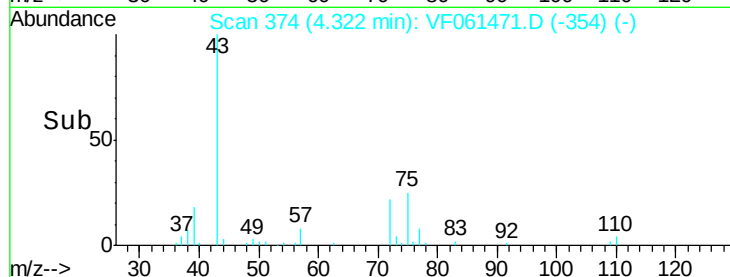
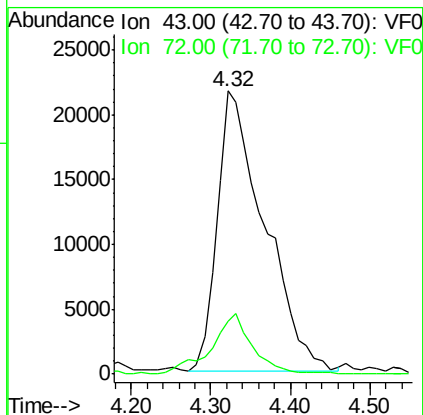
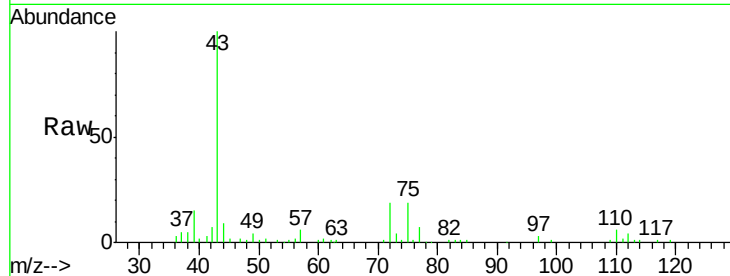
72 18.5 15.8 23.6

Manual Integrations

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MMDadoda

1/22/2019 2:50:26 PM



#26

2,2-Dichloropropane

Concen: 22.620 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061471.D

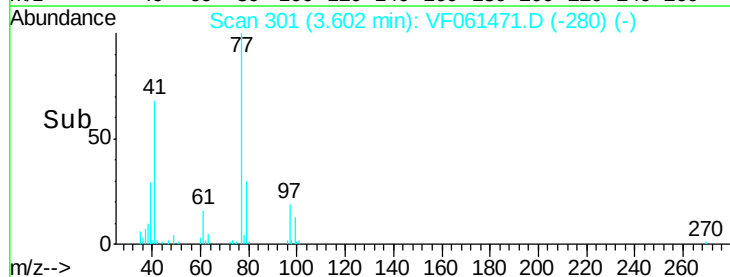
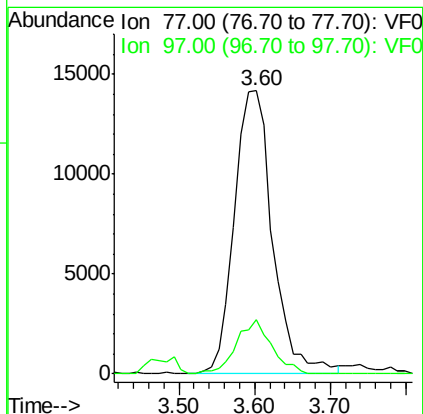
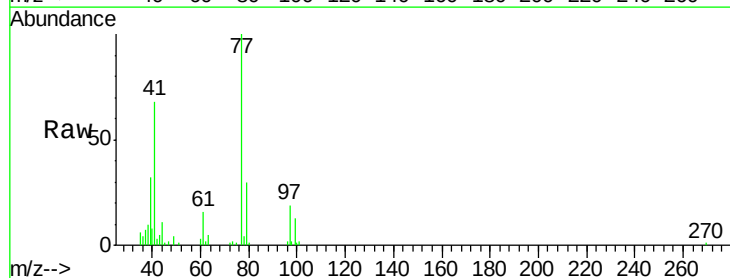
Acq: 21 Jan 2019 14:02

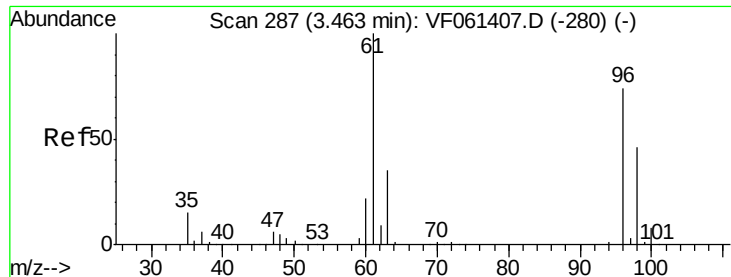
Tgt Ion: 77 Resp: 49824

Ion Ratio Lower Upper

77 100

97 19.0 8.5 25.5





#27

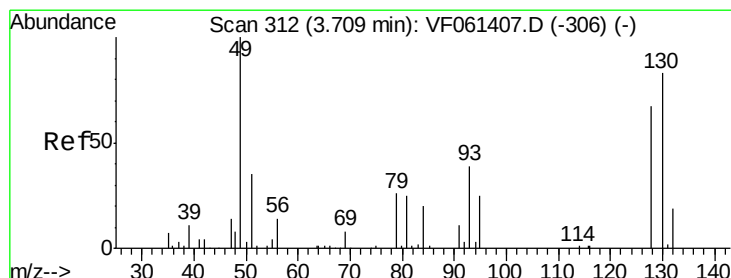
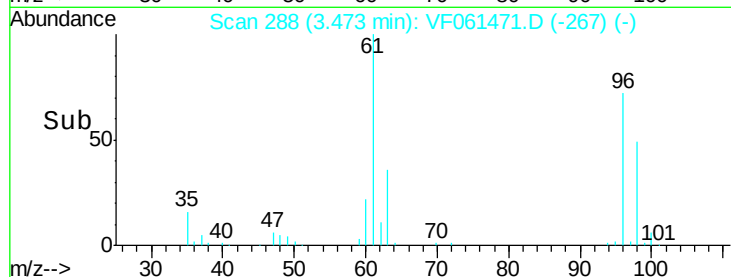
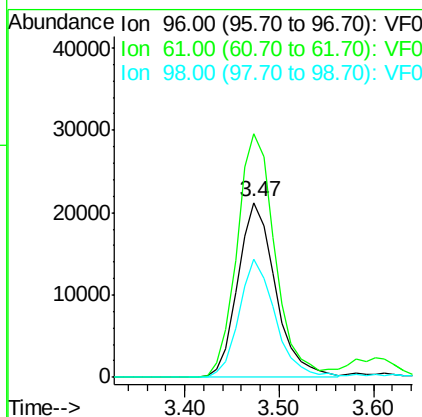
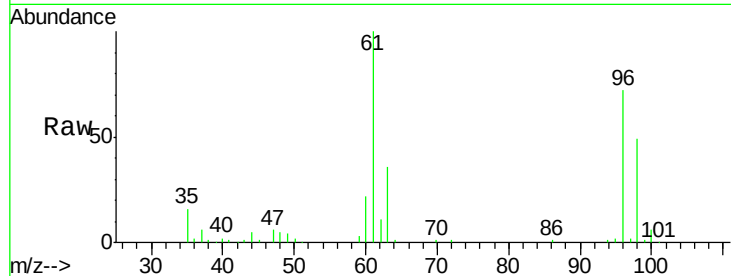
cis-1,2-Dichloroethene
Concen: 22.637 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	59015		
61	139.2		0.0	270.2
98	67.7		0.0	124.0

Manual Integrations
APPROVED

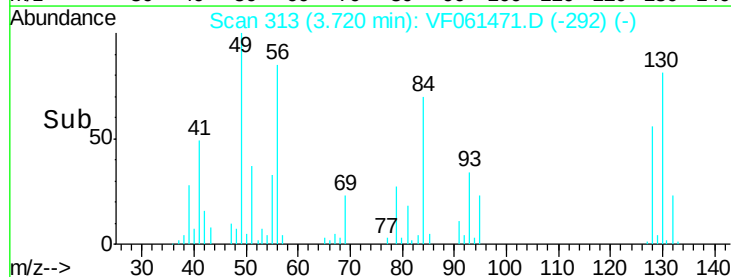
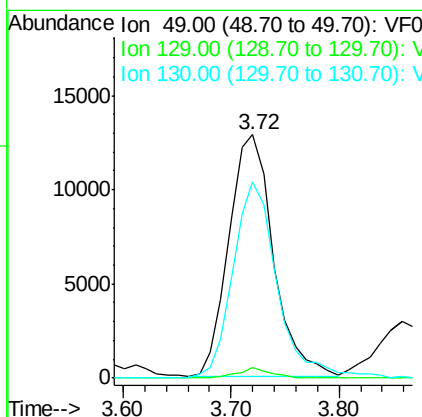
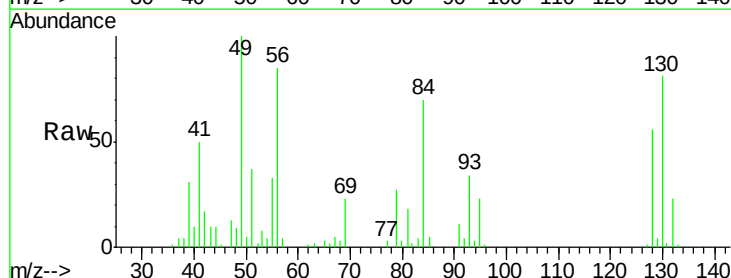
MMDadoda
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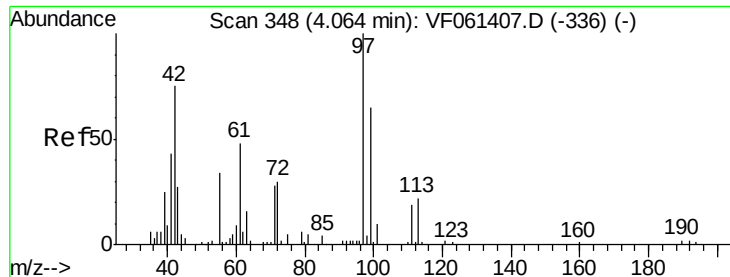


#28

Bromochloromethane
Concen: 22.751 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	36664		
129	4.1		0.0	0.0#
130	80.6		65.4	98.2





#29

Tetrahydrofuran

Concen: 107.022 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

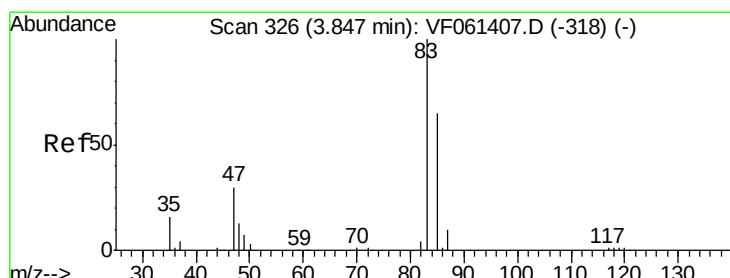
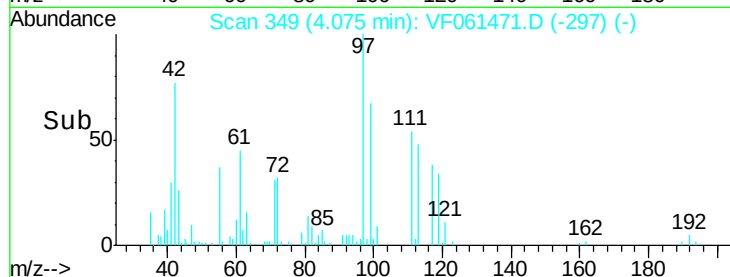
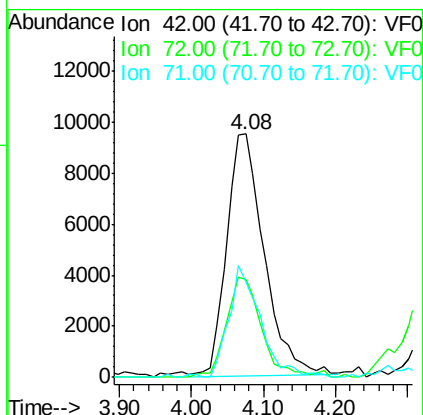
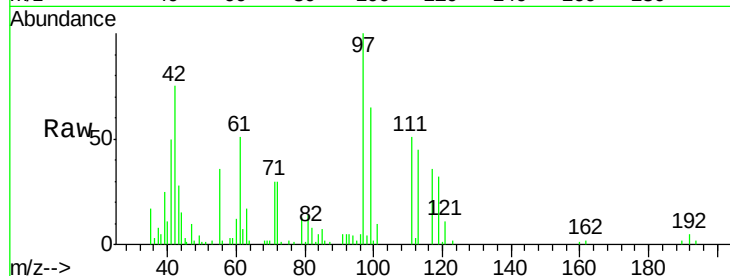
ClientSampleId :

VF0121SBS01

Tot Ion:	42	Resp:	34256
Ion	Ratio	Lower	Upper
42	100		
72	39.1	28.9	43.3
71	39.3	29.6	44.4

Manual Integrations
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#30

Chloroform

Concen: 21.959 ug/l

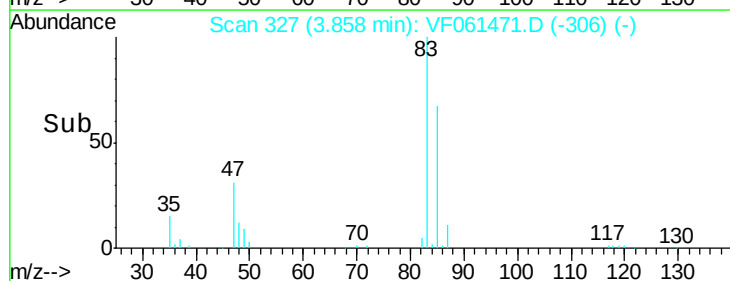
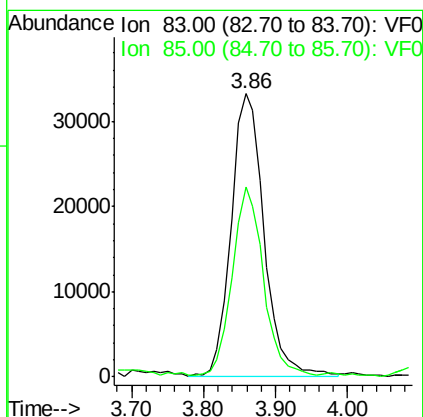
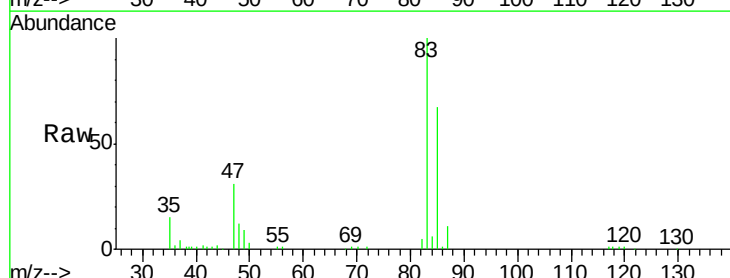
RT: 3.86 min Scan# 327

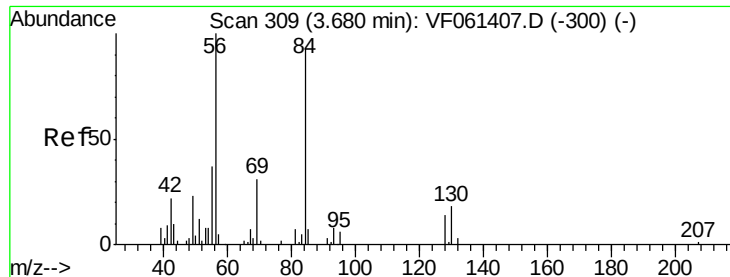
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	83	Resp:	106246
Ion	Ratio	Lower	Upper
83	100		
85	67.1	52.7	79.1





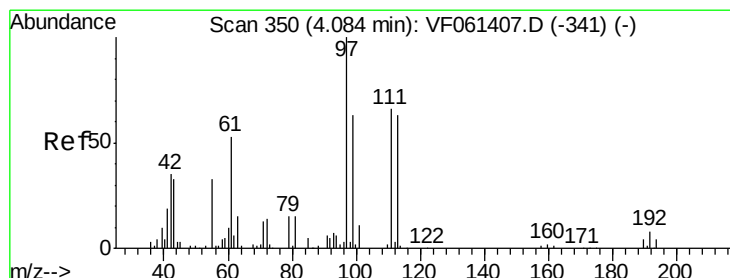
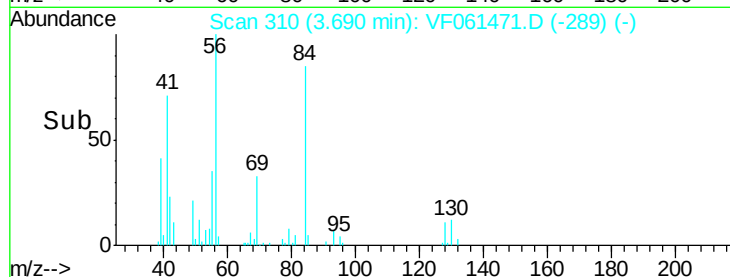
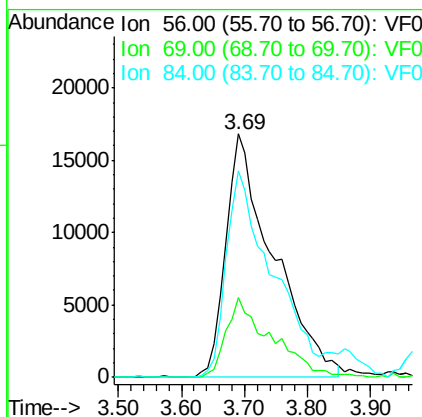
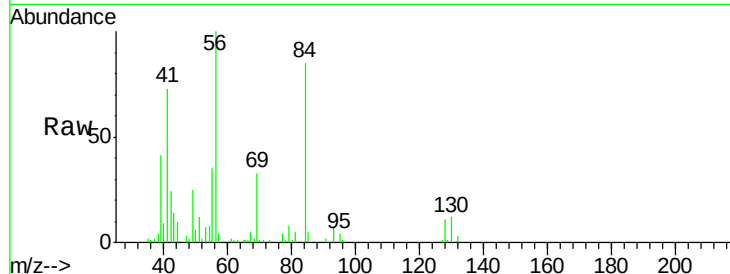
#31
Cyclohexane
Concen: 24.447 ug/l
RT: 3.69 min Scan# 310
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.8	24.6	36.8
84	84.8	74.2	111.2

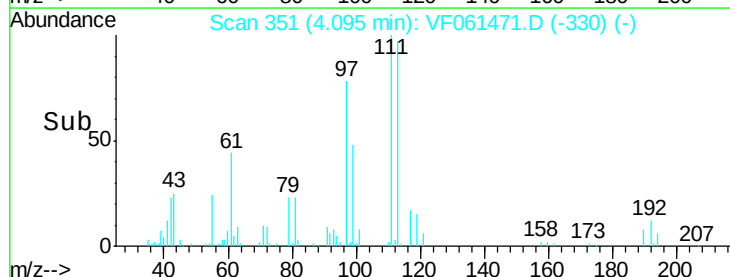
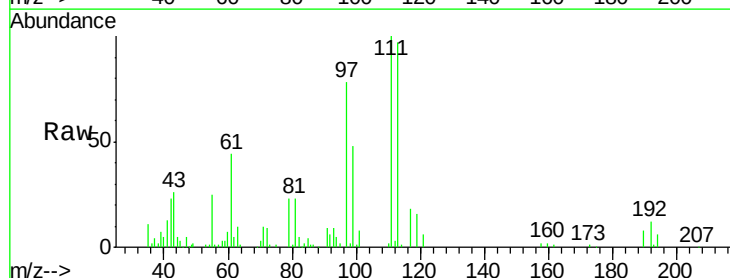
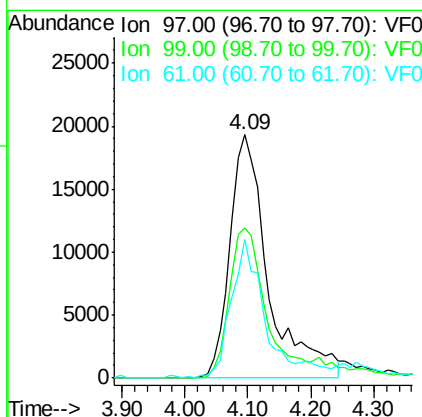
Manual Integrations
APPROVED

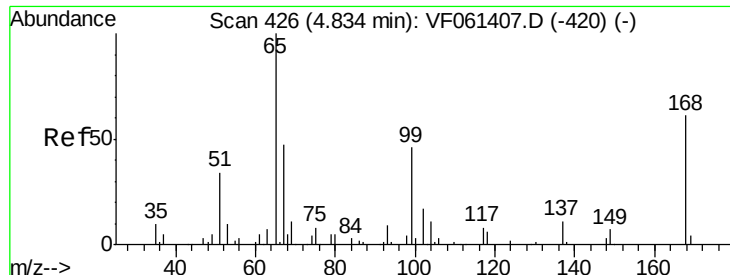
MMDadoda
1/22/2019 2:50:26 PM



#32
1,1,1-Trichloroethane
Concen: 23.149 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.4	50.1	75.1
61	56.9	43.1	64.7





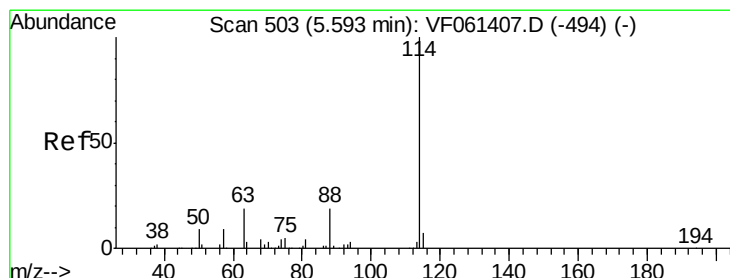
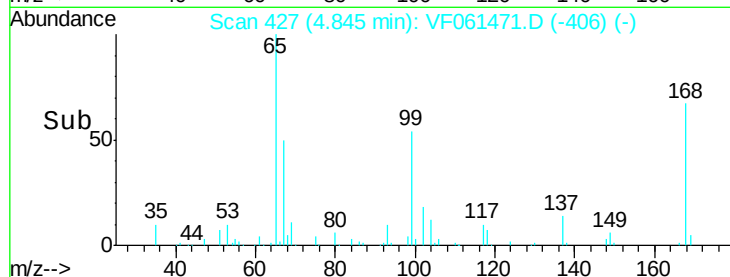
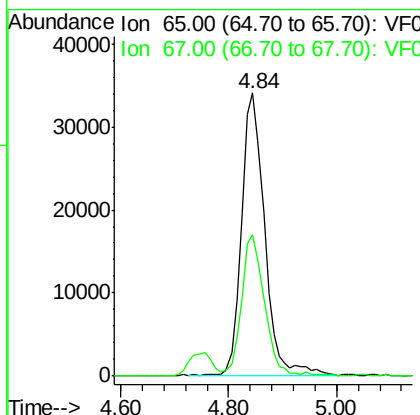
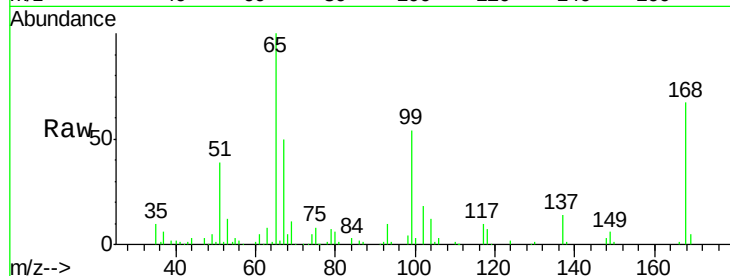
#33
 1,2-Dichloroethane-d4
 Concen: 45.918 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. 0.01 min
 Lab File: VF061471.D
 Acq: 21 Jan 2019 14:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0121SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	102315		
67	49.8	0.0	99.8	

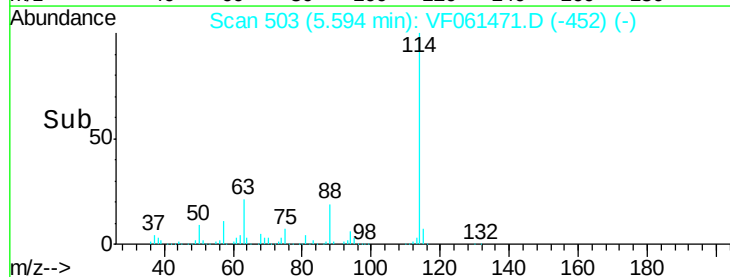
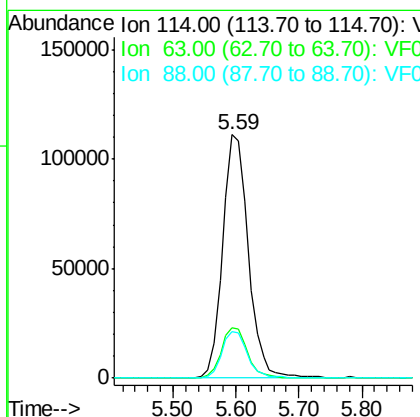
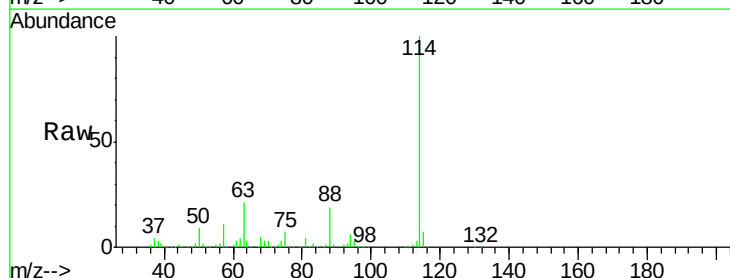
Manual Integrations
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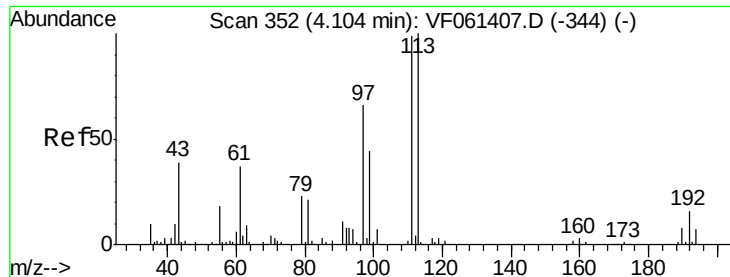
MMDadoda
 1/22/2019 2:50:26 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VF061471.D
 Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	315974		
63	20.9	0.0	39.0	
88	19.1	0.0	37.4	





#35

Dibromofluoromethane

Concen: 46.734 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

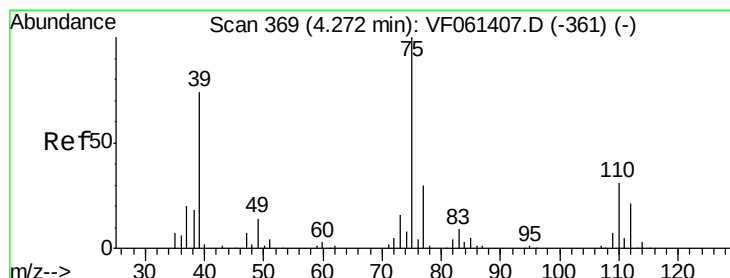
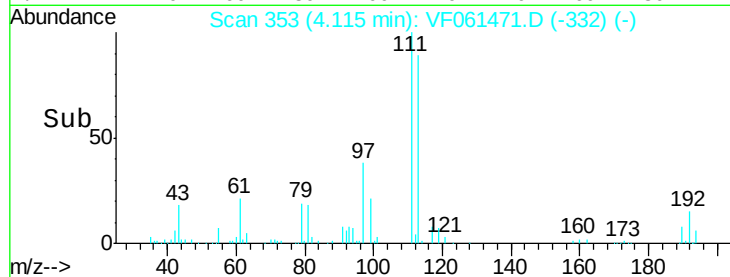
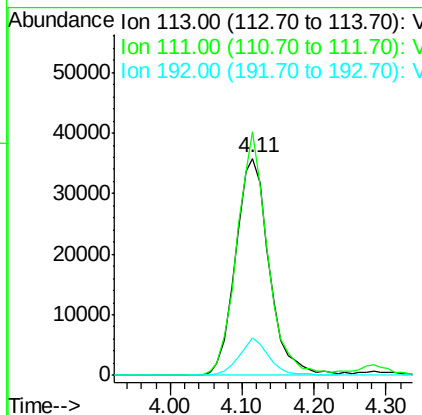
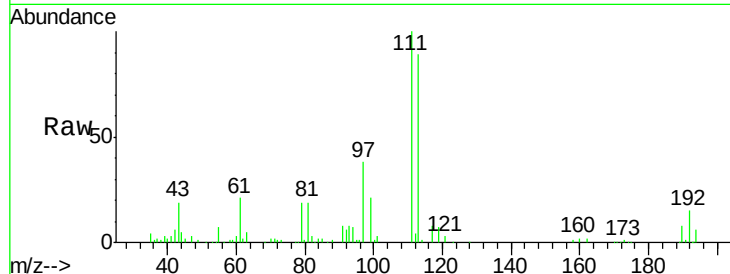
ClientSampleId :

VF0121SBS01

Tot Ion:	113	Resp:	116522
Ion	Ratio	Lower	Upper
113	100		
111	112.3	79.4	119.0
192	17.3	12.4	18.6

Manual Integrations
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1/22/2019 2:50:26 PM



#36

1,1-Dichloropropene

Concen: 22.403 ug/l

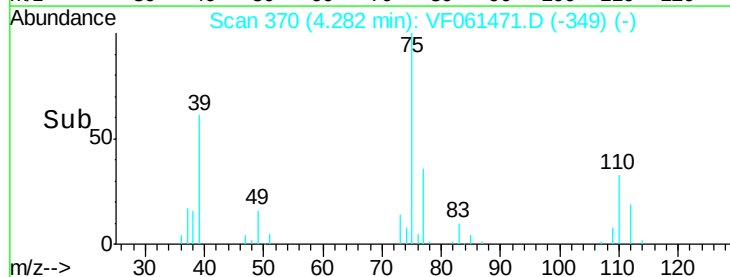
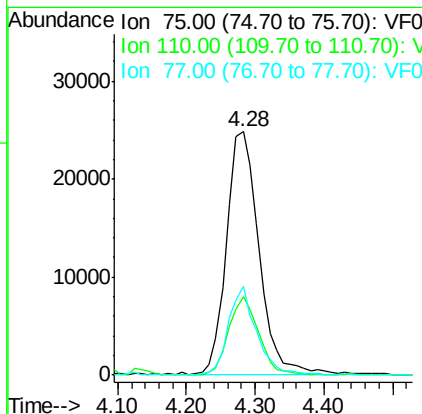
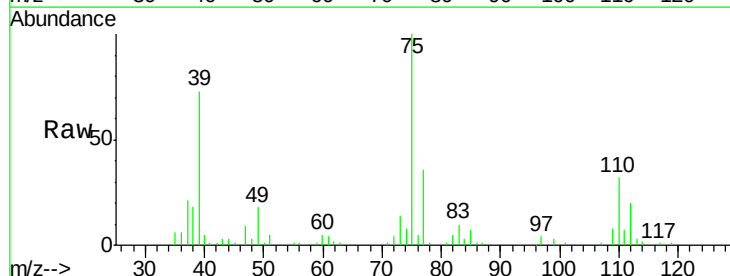
RT: 4.28 min Scan# 370

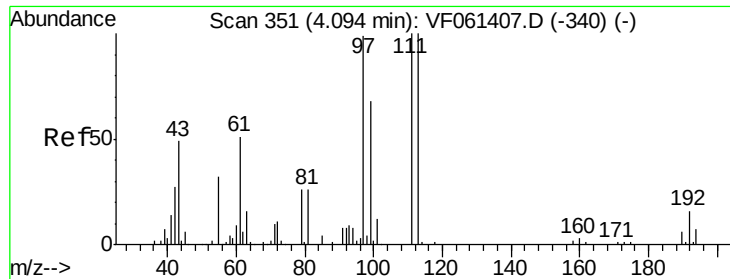
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	75	Resp:	82073
Ion	Ratio	Lower	Upper
75	100		
110	32.3	15.8	47.3
77	36.3	24.0	36.0#





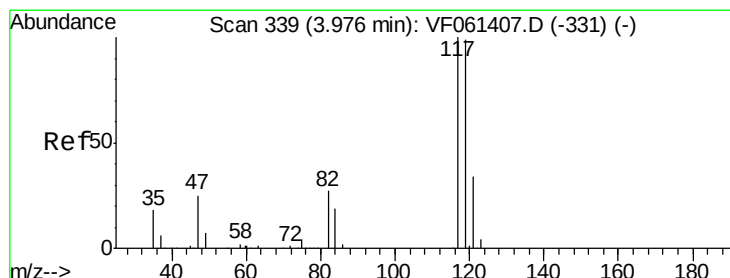
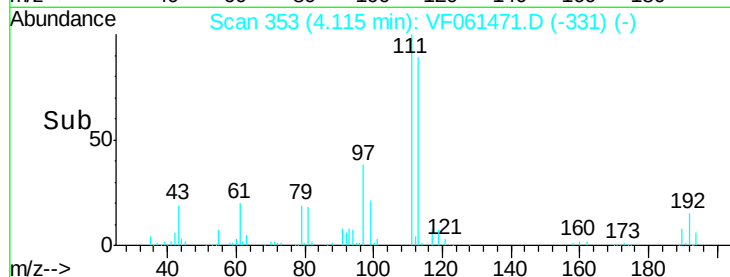
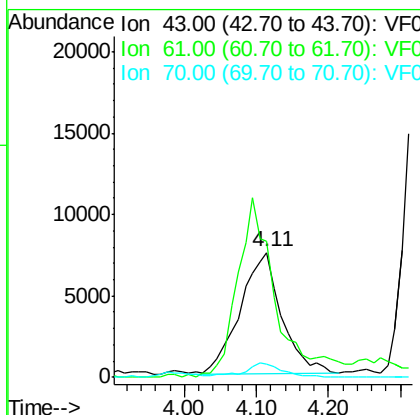
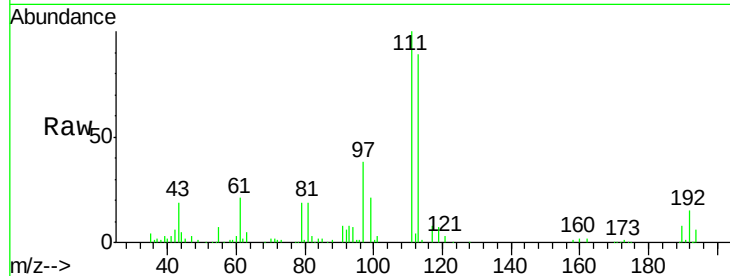
#37
Ethyl Acetate
Concen: 20.449 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.02 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
29947	100	109.4	10.8			
		81.7	6.2			
			9.2			

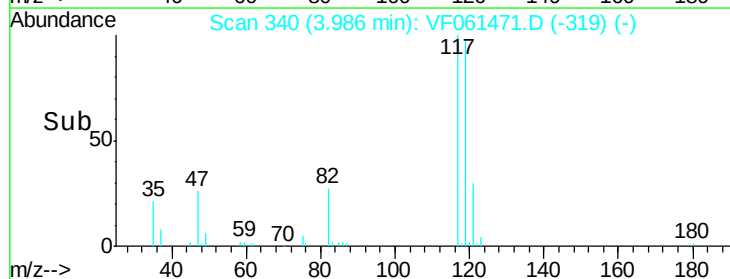
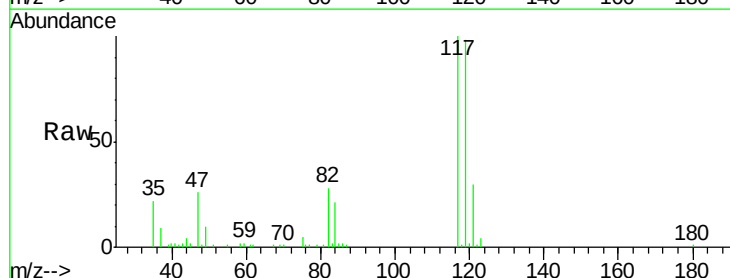
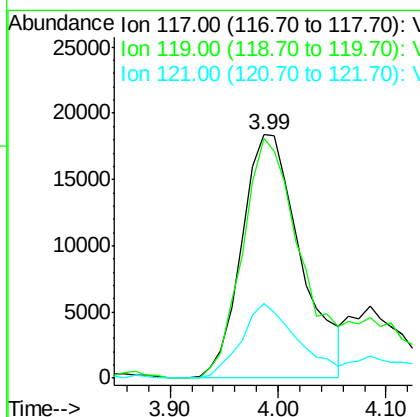
Manual Integrations
APPROVED

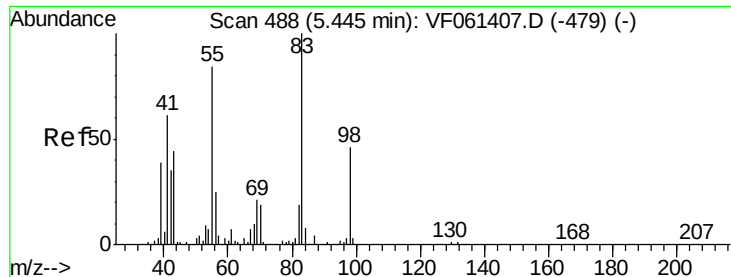
MMDadoda
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#38
Carbon Tetrachloride
Concen: 21.778 ug/l
RT: 3.99 min Scan# 340
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	117	119	121	Ratio	Lower	Upper
69750	100	98.3	30.4			
		79.0	27.0			
			40.6			





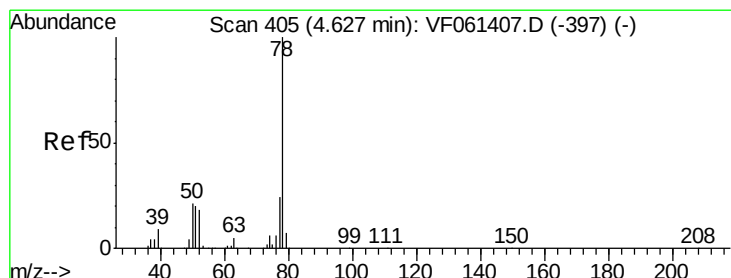
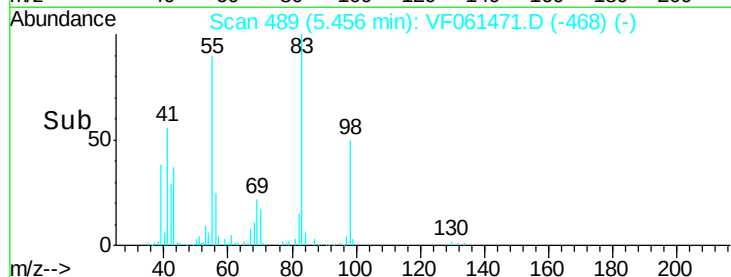
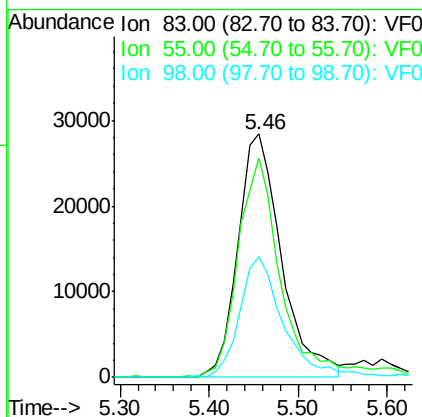
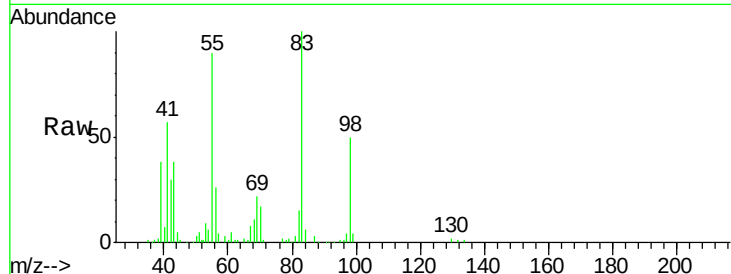
#39
Methylvlcyclohexane
Concen: 24.271 ug/l
RT: 5.46 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	83	Resp	96364
Ion	Ratio	Lower	Upper
83	100		
55	90.1	67.4	101.2
98	49.7	36.7	55.1

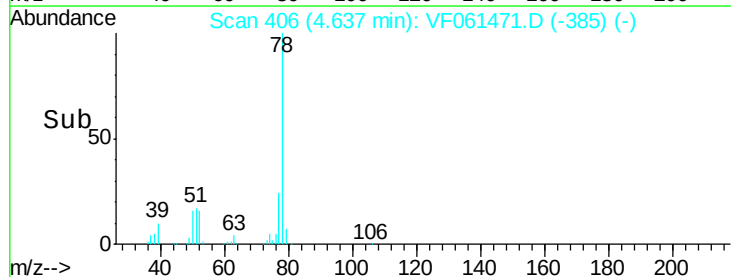
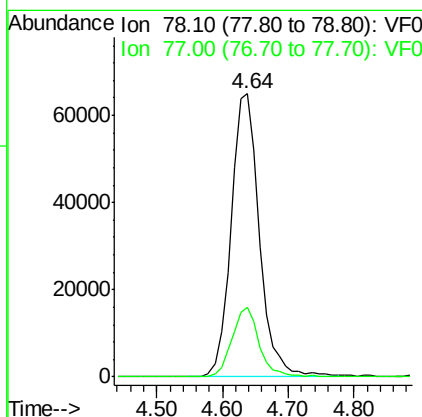
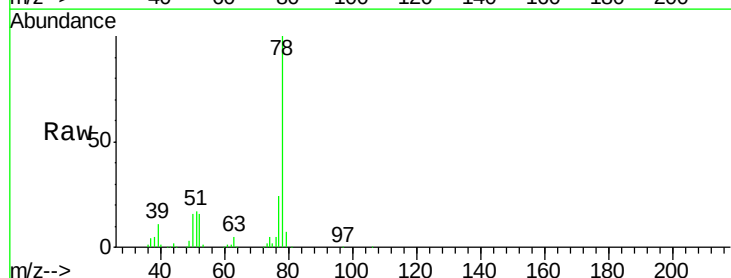
Manual Integrations
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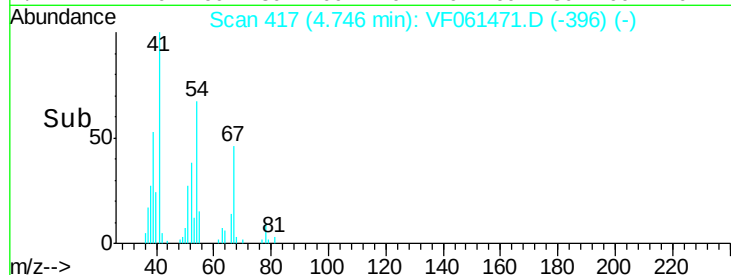
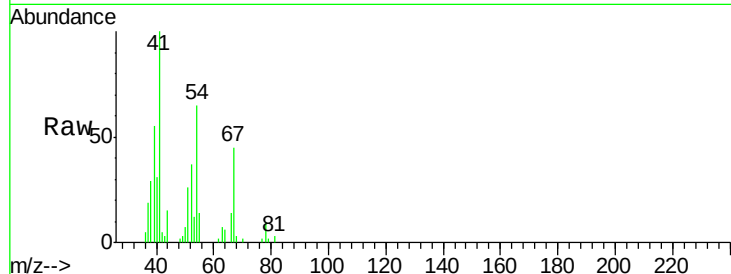
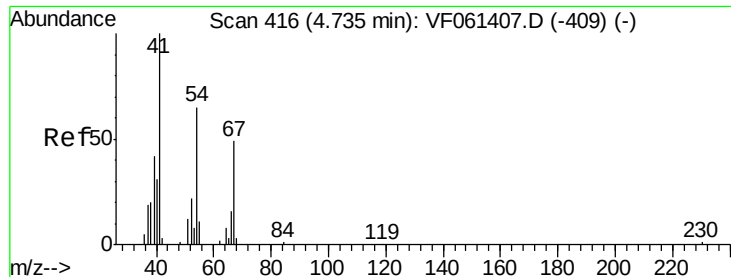
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#40
Benzene
Concen: 24.041 ug/l
RT: 4.64 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	78	Resp	195980
Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6





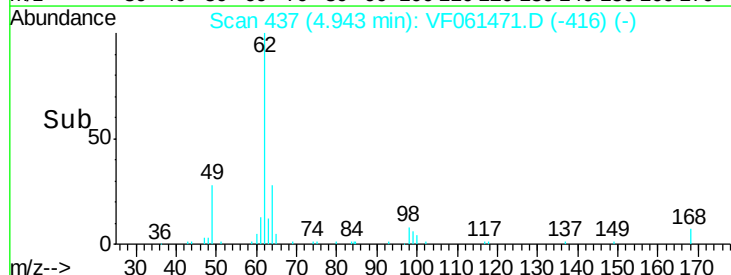
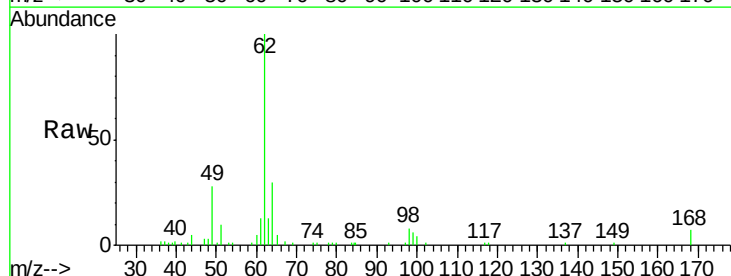
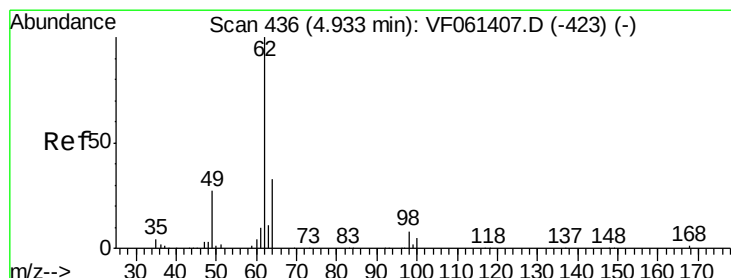
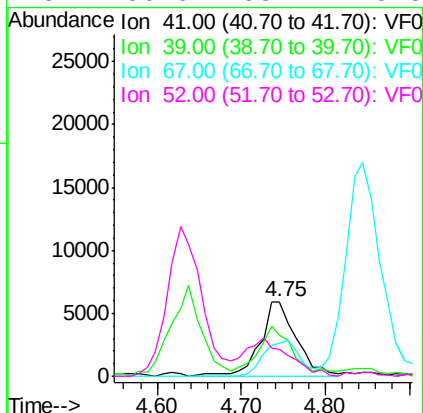
#41
Methacrylonitrile
Concen: 22.988 ug/l
RT: 4.75 min Scan# 417
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		17913		
39	54.9	43.1	64.7		
67	44.6	38.8	58.2		
52	36.6	33.2	49.8		

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

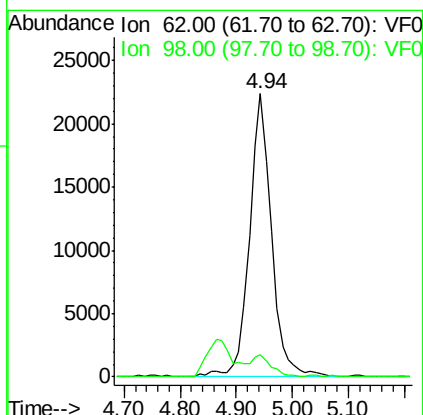
Manual Integrations
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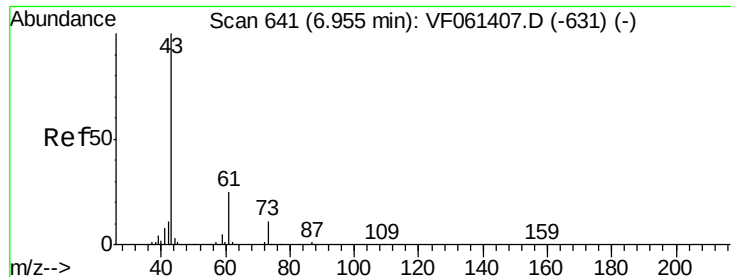
MMDadoda
1/22/2019 2:50:26 PM



#42
1,2-Dichloroethane
Concen: 20.972 ug/l
RT: 4.94 min Scan# 437
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		60922		
98	8.0	0.0	17.0		





#43

Isopropyl Acetate

Concen: 22.062 ug/l

RT: 6.96 min Scan# 641

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

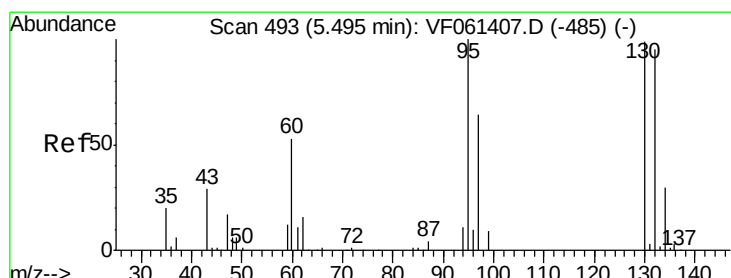
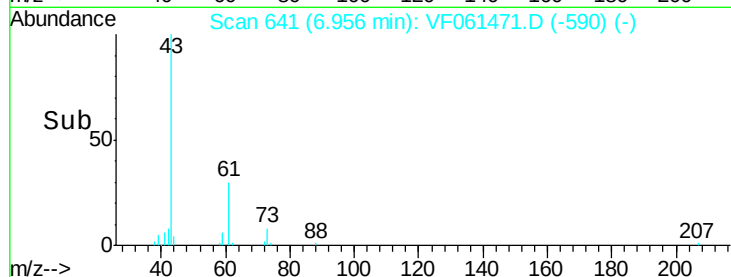
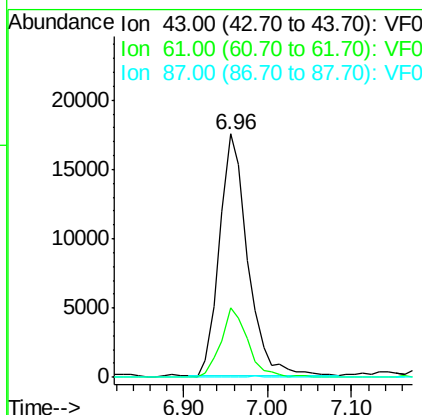
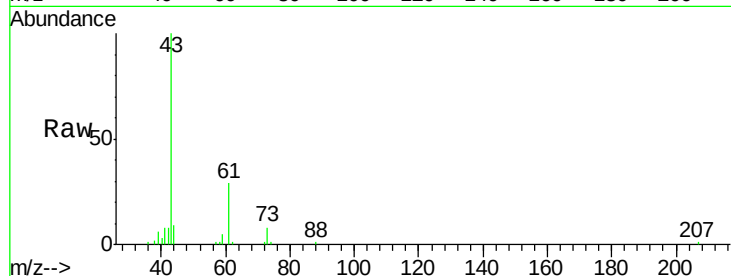
ClientSampleId :

VF0121SBS01

Tot Ion:	43	Resp:	40549
Ion	Ratio	Lower	Upper
43	100		
61	28.6	20.3	30.5
87	0.0	0.5	0.7#

Manual Integrations
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1/22/2019 2:50:26 PM



#44

Trichloroethene

Concen: 23.194 ug/l

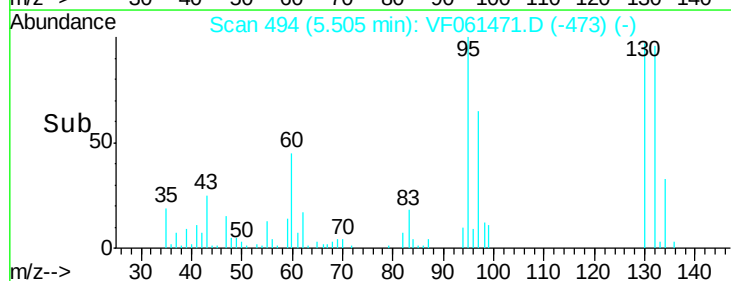
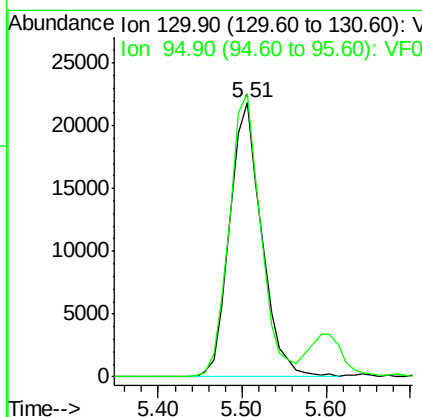
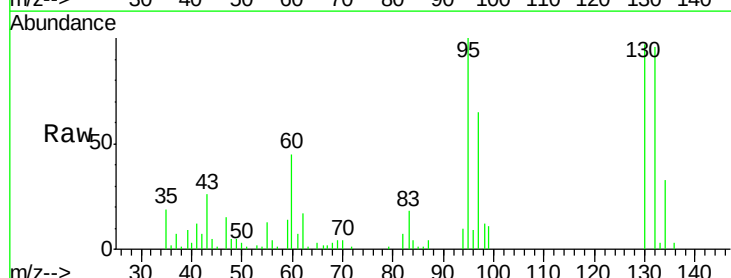
RT: 5.51 min Scan# 494

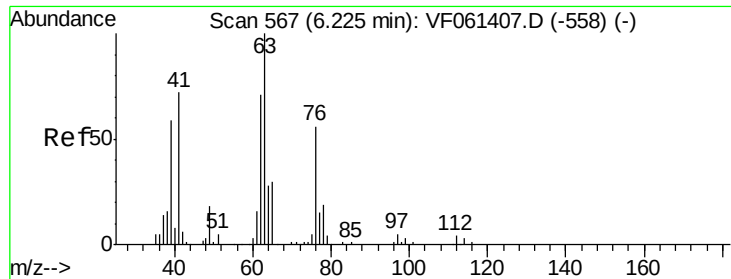
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	130	Resp:	58002
Ion	Ratio	Lower	Upper
130	100		
95	103.3	0.0	202.8





#45

1,2-Dichloropropane

Concen: 23.556 ug/l

RT: 6.24 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 63 Resp: 50398

Ion Ratio Lower Upper

63 100

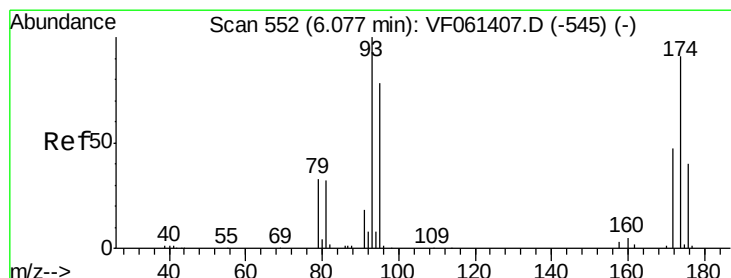
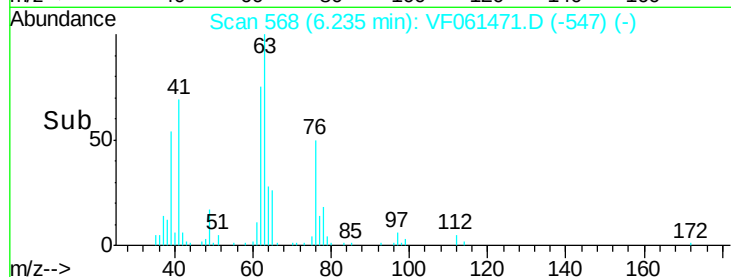
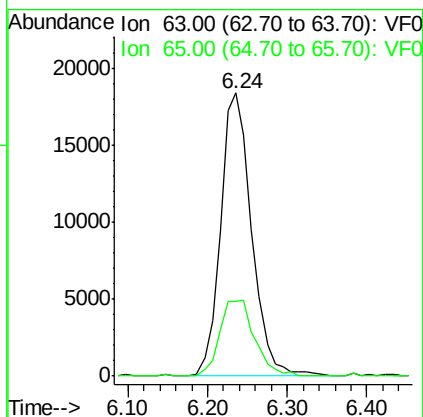
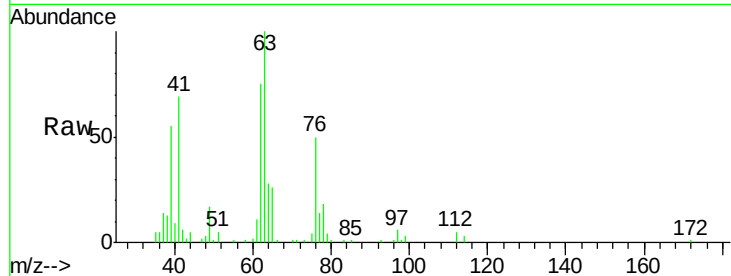
65 26.2 24.4 36.6

Manual Integrations

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#46

Dibromomethane

Concen: 20.550 ug/l

RT: 6.09 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

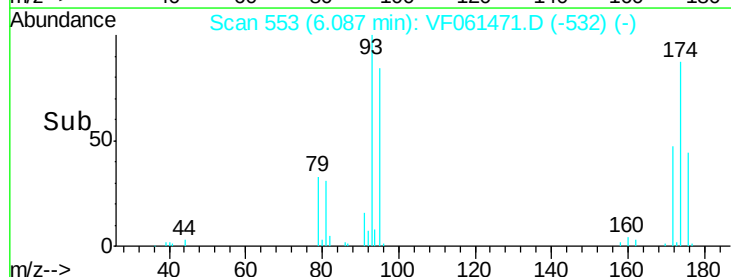
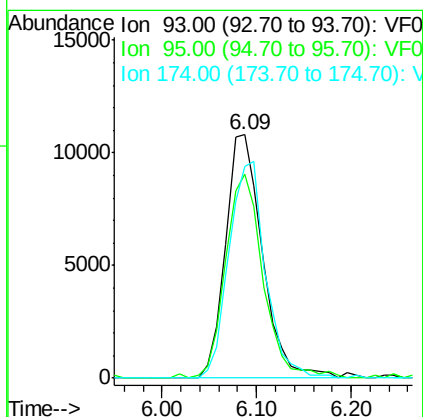
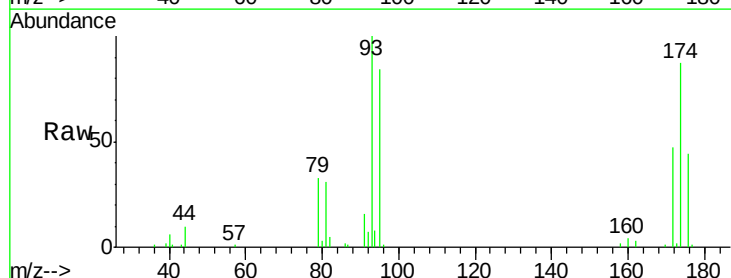
Tgt Ion: 93 Resp: 29236

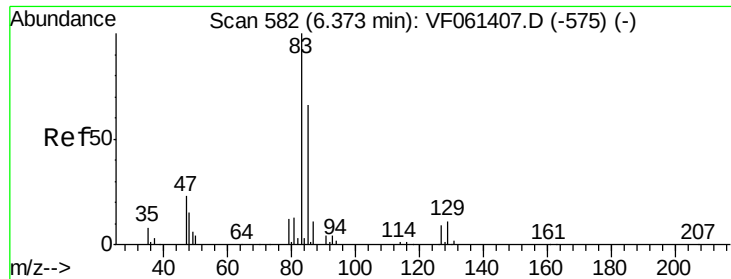
Ion Ratio Lower Upper

93 100

95 83.7 62.1 93.1

174 87.0 74.6 111.8





#47

Bromodichloromethane

Concen: 21.247 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

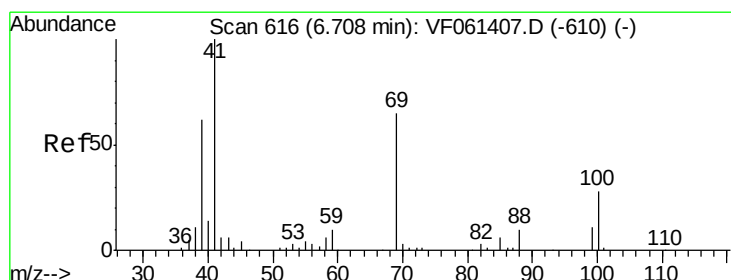
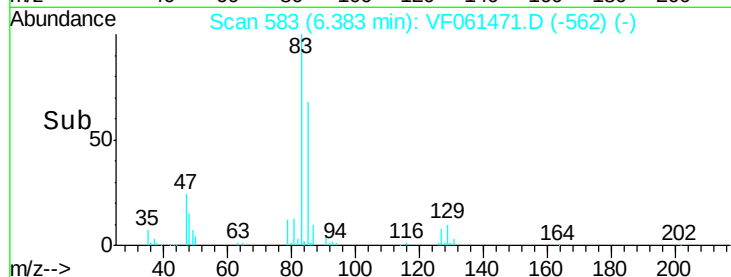
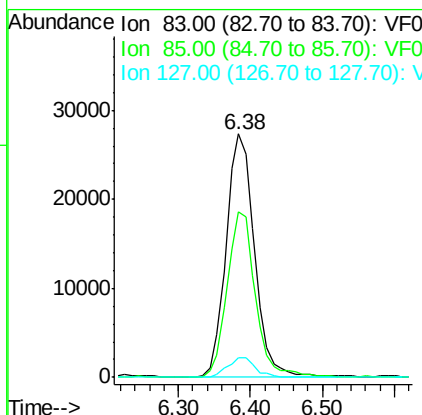
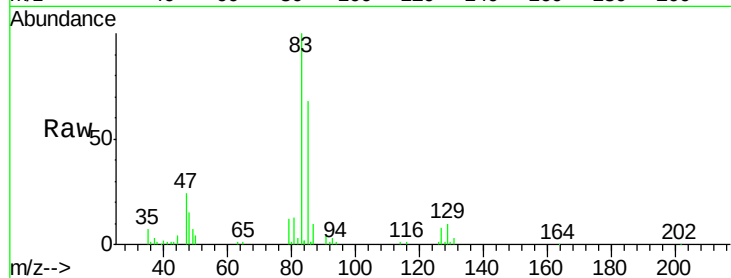
ClientSampleId :

VF0121SBS01

Tot Ion:	83	Resp:	74788
Ion	Ratio	Lower	Upper
83	100		
85	68.0	53.0	79.4
127	7.9	6.9	10.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.527 ug/l

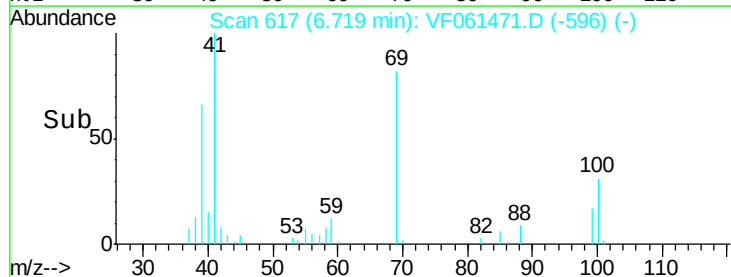
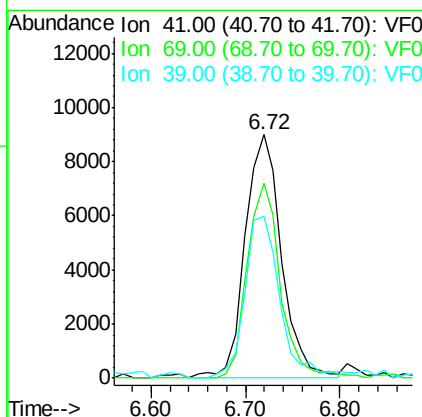
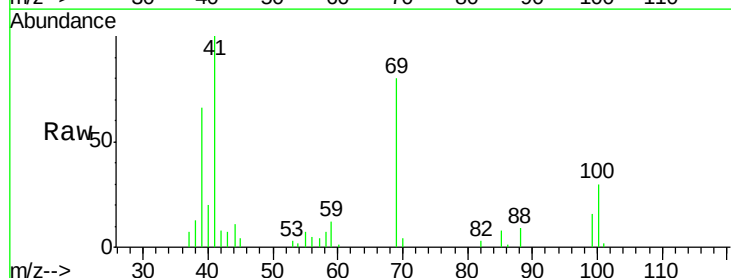
RT: 6.72 min Scan# 617

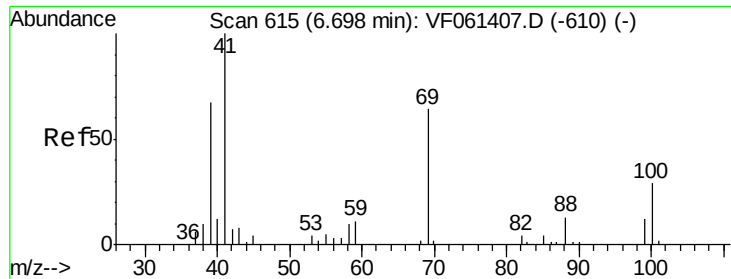
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	41	Resp:	24101
Ion	Ratio	Lower	Upper
41	100		
69	80.1	51.7	77.5#
39	66.4	49.2	73.8





#49

1,4-Dioxane

Concen: 347.002 ug/l

RT: 6.70 min Scan# 615

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

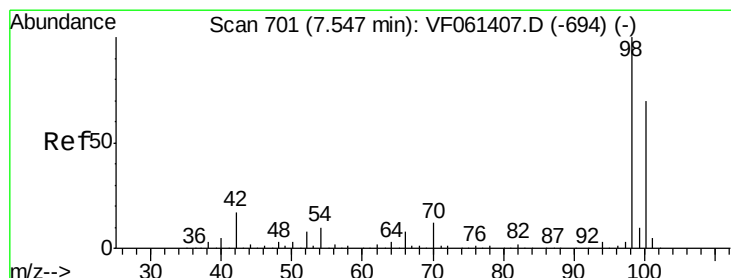
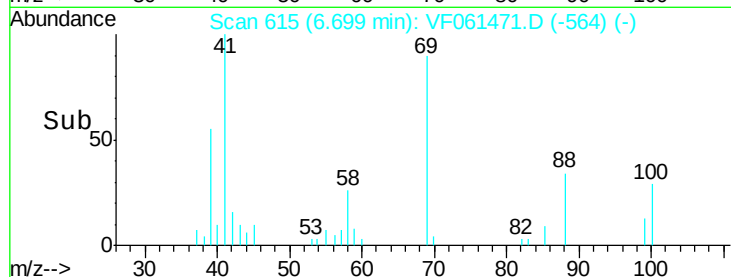
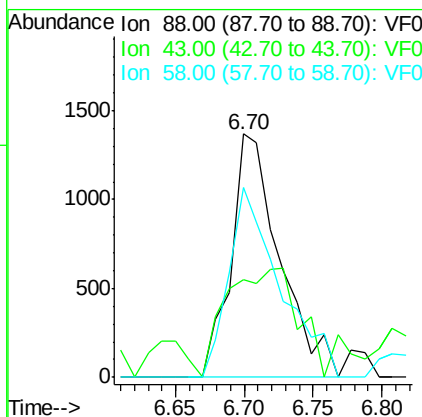
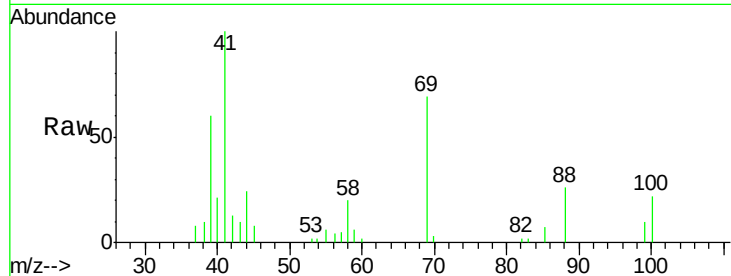
ClientSampleId :

VF0121SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	3380		
43	40.4		55.5	83.3#
58	77.9		59.9	89.9

Manual Integrations
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#50

Toluene-d8

Concen: 46.986 ug/l

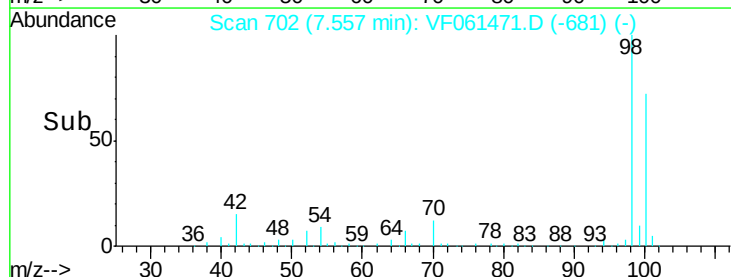
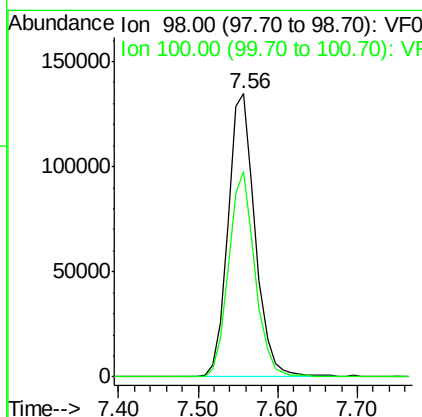
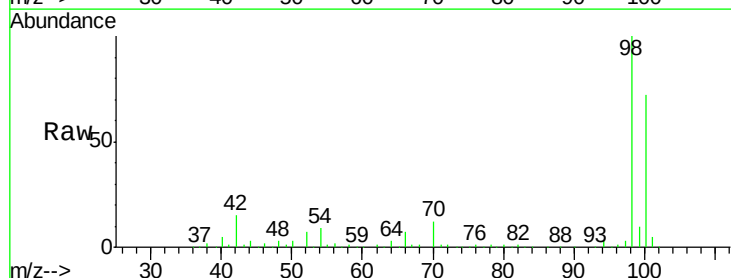
RT: 7.56 min Scan# 702

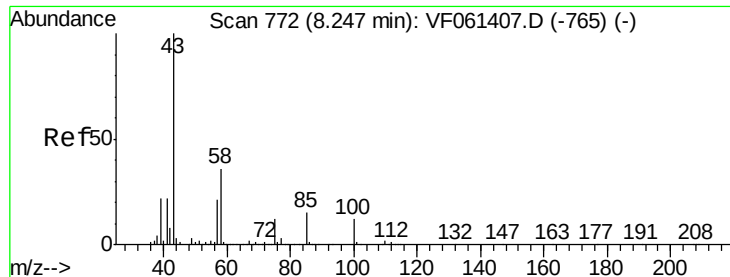
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	320974		
100	72.4		55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 117.099 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 43 Resp: 158225

Ion Ratio Lower Upper

43 100

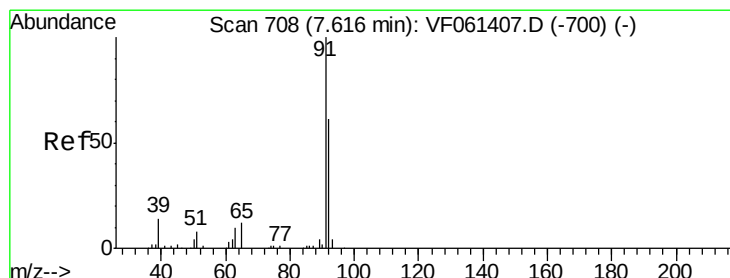
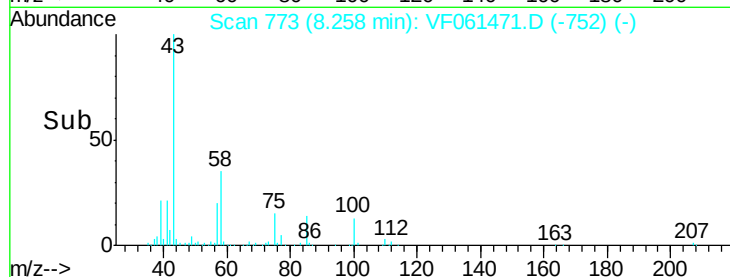
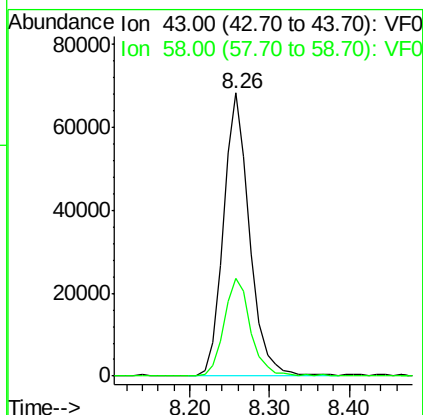
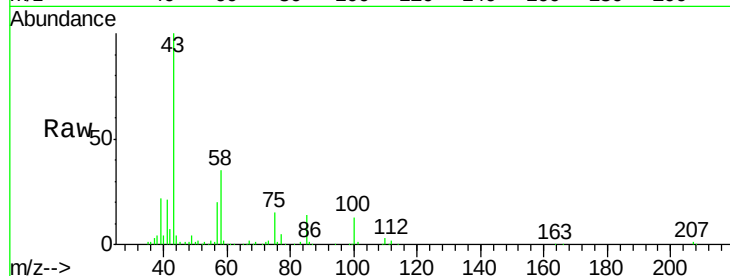
58 34.7 28.8 43.2

Manual Integrations

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#52

Toluene

Concen: 20.240 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061471.D

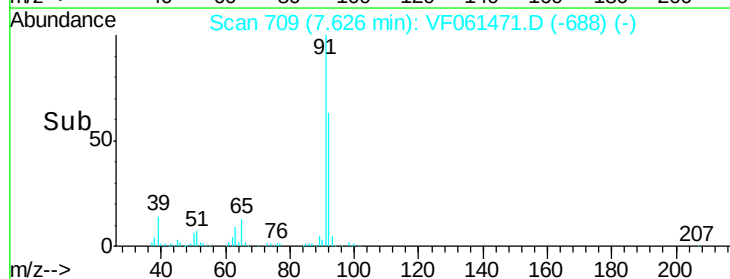
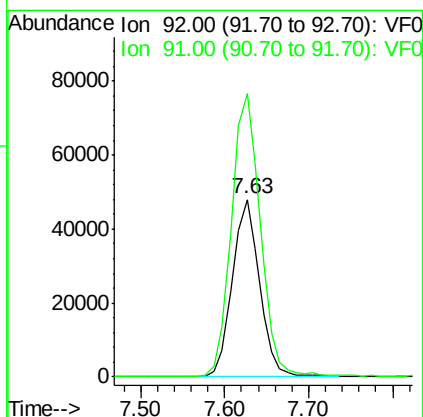
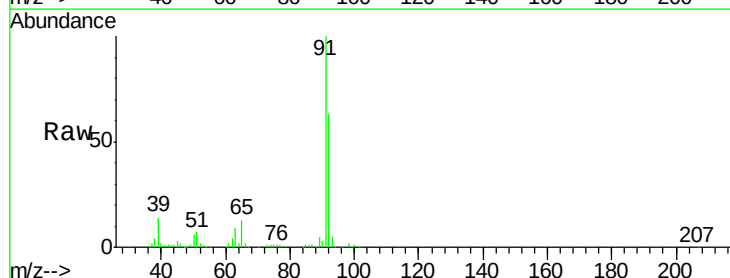
Acq: 21 Jan 2019 14:02

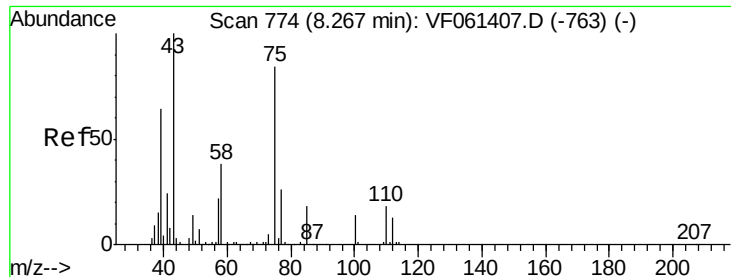
Tgt Ion: 92 Resp: 108656

Ion Ratio Lower Upper

92 100

91 159.4 131.2 196.8





#53

t-1,3-Dichloropropene

Concen: 21.958 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 75 Resp: 61374

Ion Ratio Lower Upper

75 100

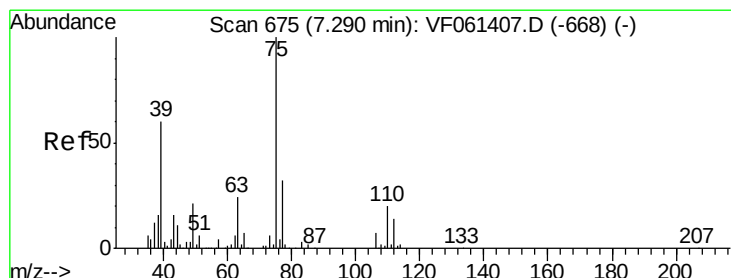
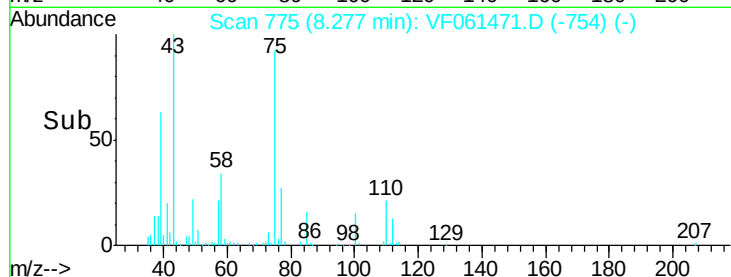
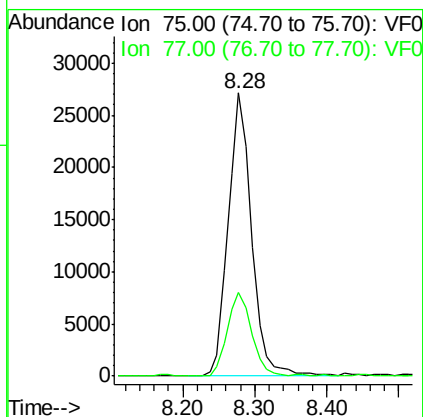
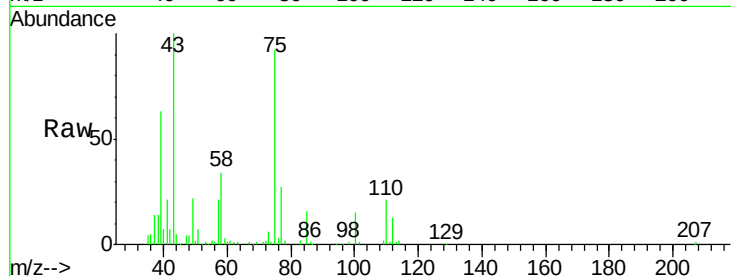
77 29.7 24.4 36.6

Manual Integrations

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1/22/2019 2:50:26 PM



#54

cis-1,3-Dichloropropene

Concen: 22.565 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

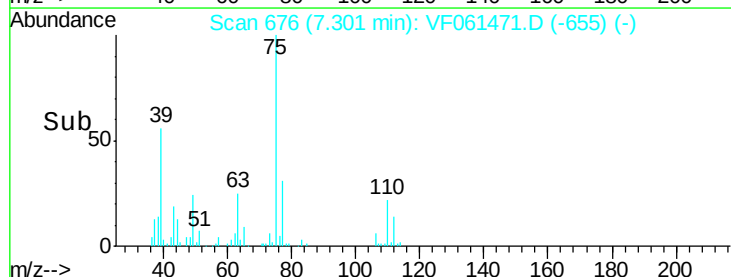
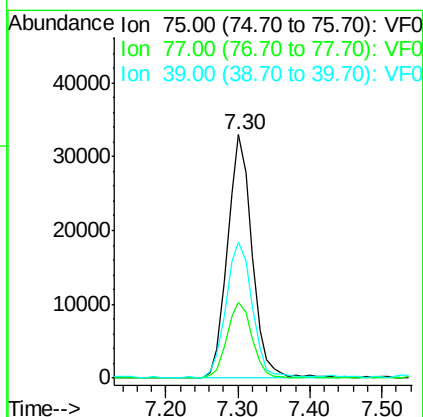
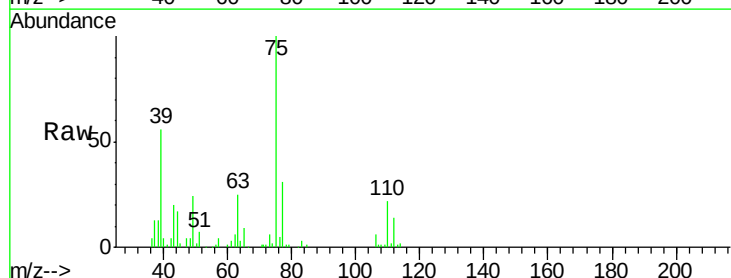
Tgt Ion: 75 Resp: 78837

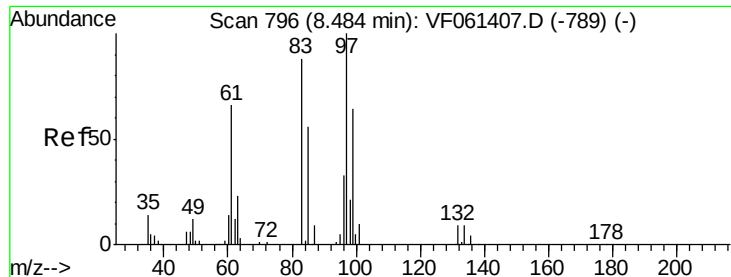
Ion Ratio Lower Upper

75 100

77 30.9 25.4 38.0

39 55.9 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 22.138 ug/l

RT: 8.49 min Scan# 797

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

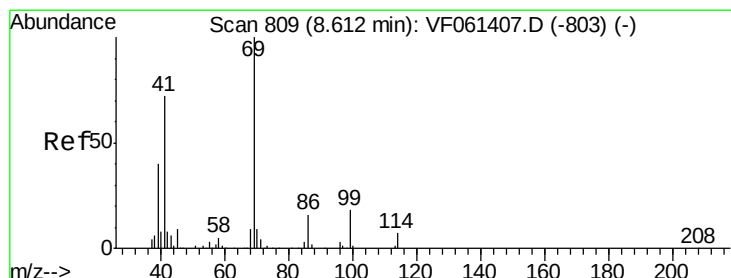
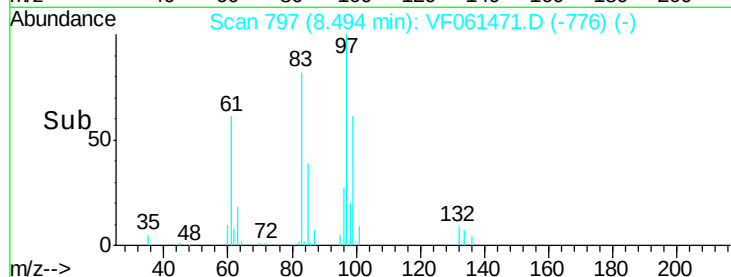
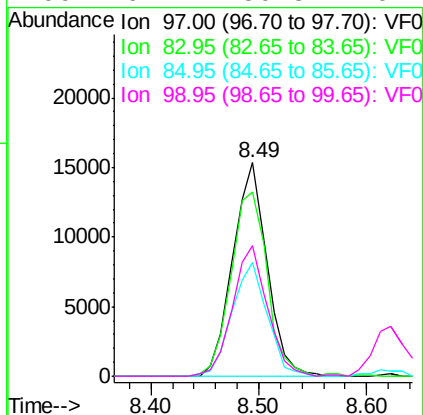
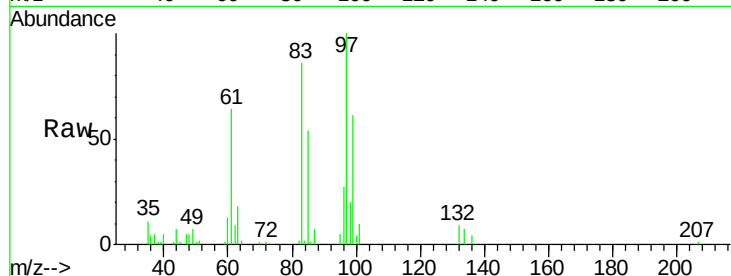
ClientSampleId :

VF0121SBS01

Tot Ion:	97	Resp:	33749
Ion	Ratio	Lower	Upper
97	100		
83	86.3	70.4	105.6
85	53.6	44.7	67.1
99	61.2	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 22.129 ug/l

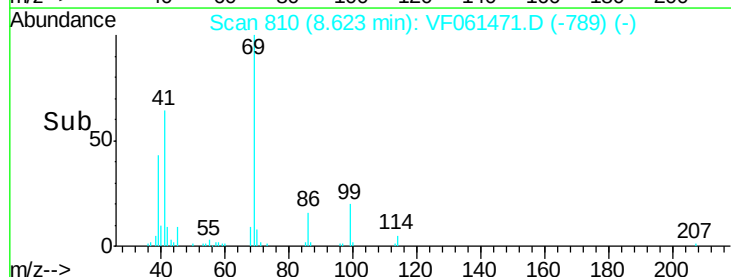
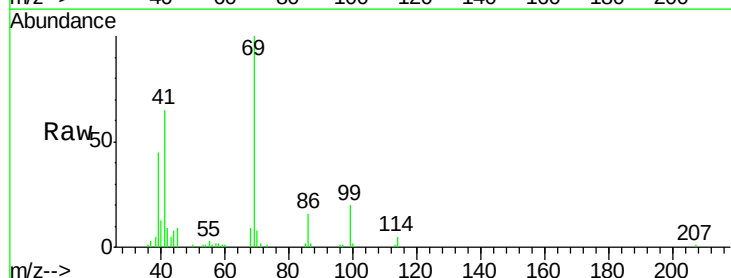
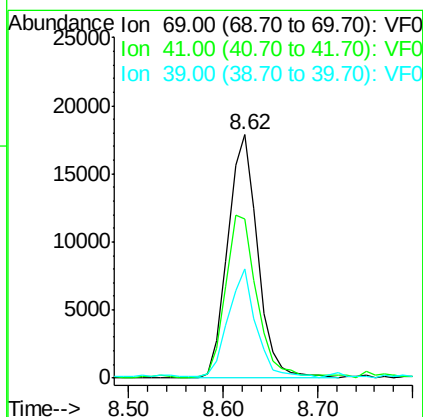
RT: 8.62 min Scan# 810

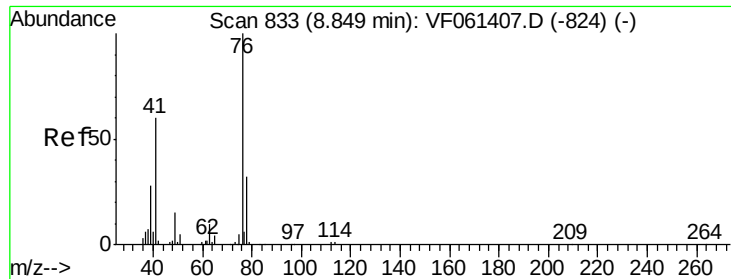
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	69	Resp:	39248
Ion	Ratio	Lower	Upper
69	100		
41	65.3	57.5	86.3
39	45.0	32.0	48.0





#57

1,3-Dichloropropane

Concen: 21.427 ug/l

RT: 8.85 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 76 Resp: 61227

Ion Ratio Lower Upper

76 100

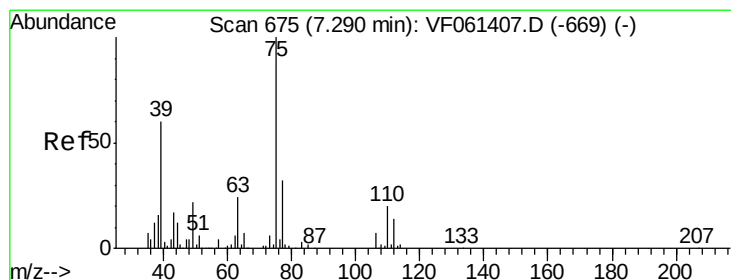
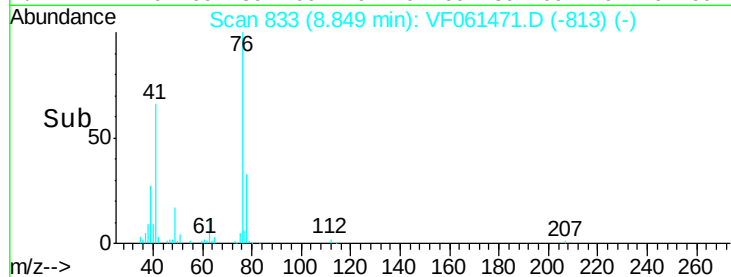
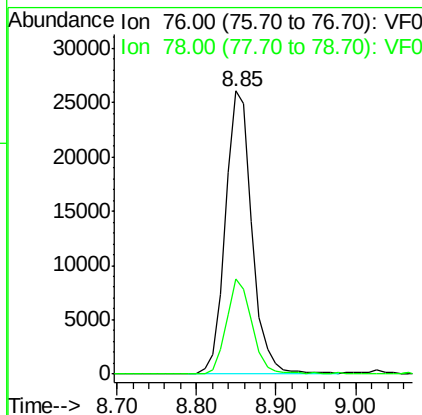
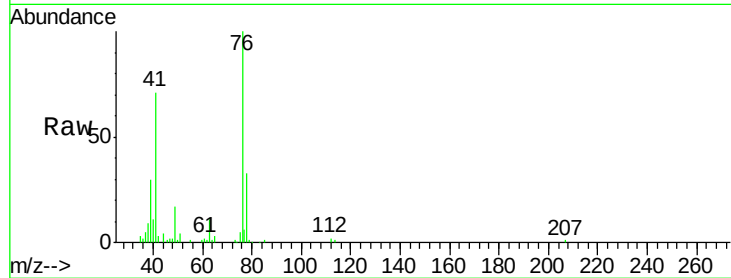
78 33.4 25.3 37.9

Manual Integrations

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1/22/2019 2:50:26 PM



#58

2-Chloroethyl Vinyl ether

Concen: 126.255 ug/l

RT: 7.29 min Scan# 675

Delta R.T. 0.00 min

Lab File: VF061471.D

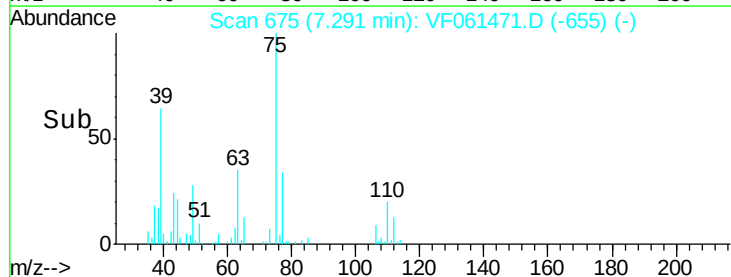
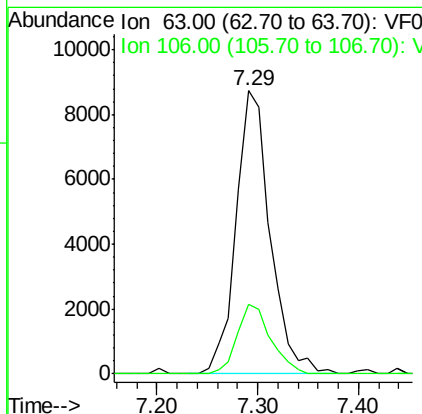
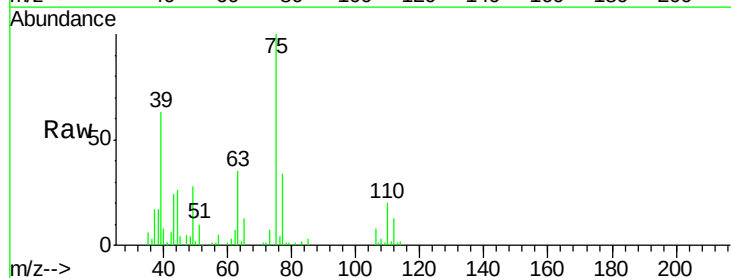
Acq: 21 Jan 2019 14:02

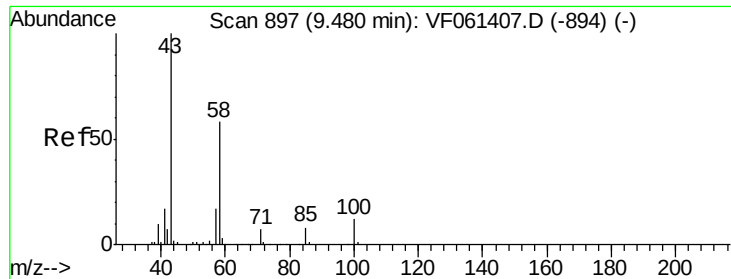
Tgt Ion: 63 Resp: 20635

Ion Ratio Lower Upper

63 100

106 24.4 21.9 32.9





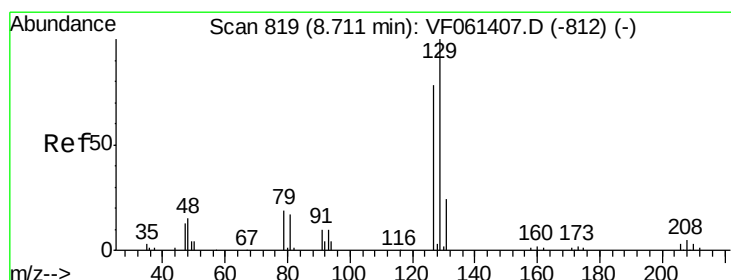
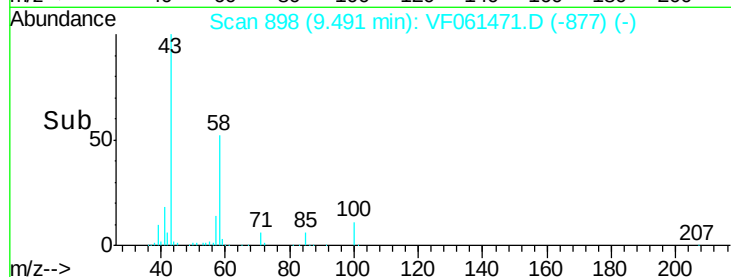
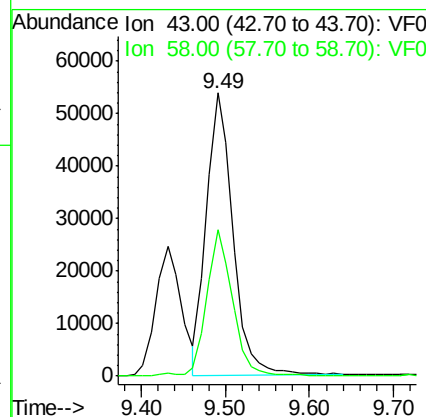
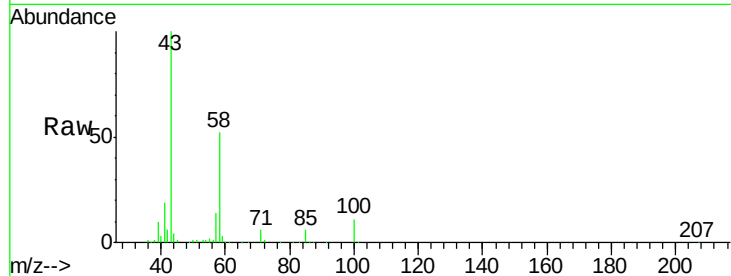
#59
2-Hexanone
Concen: 125.359 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion: 43 Resp: 118116
Ion Ratio Lower Upper
43 100
58 51.7 25.9 77.6

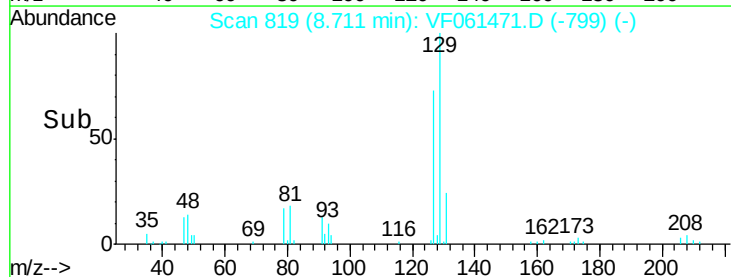
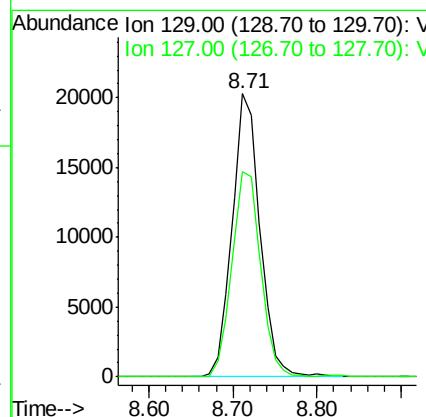
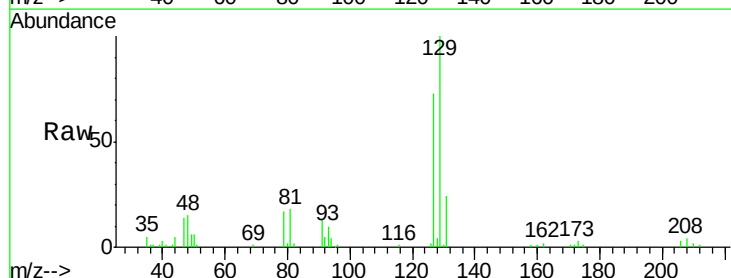
Manual Integrations
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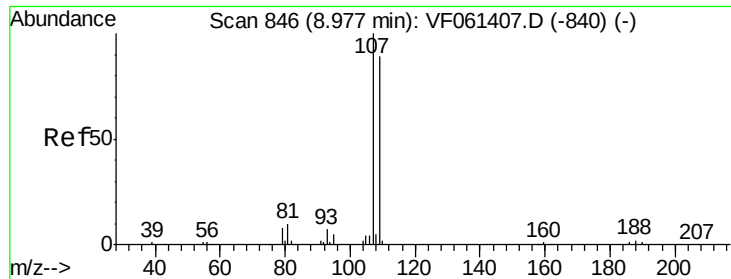
MMDadoda
1/22/2019 2:50:26 PM



#60
Dibromochloromethane
Concen: 20.930 ug/l
RT: 8.71 min Scan# 819
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion: 129 Resp: 46647
Ion Ratio Lower Upper
129 100
127 72.5 39.1 117.2





#61

1,2-Dibromoethane

Concen: 21.328 ug/l

RT: 8.98 min Scan# 846

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBSD01

Tot Ion:107 Resp: 37221

Ion Ratio Lower Upper

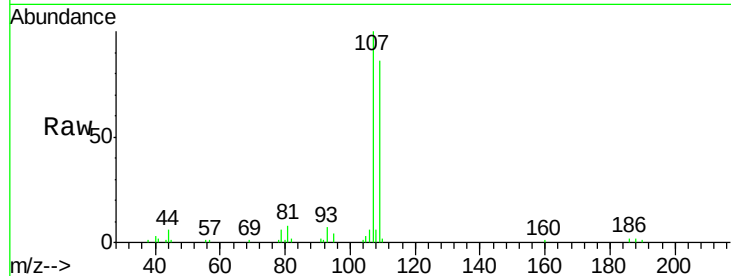
107 100

109 86.2 70.8 106.2

Manual Integrations
APPROVED

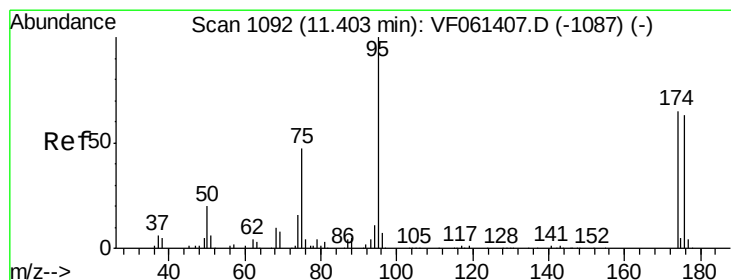
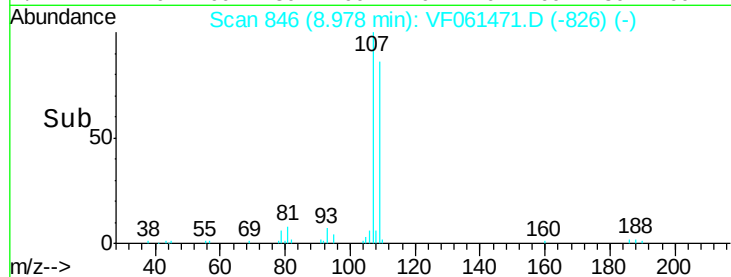
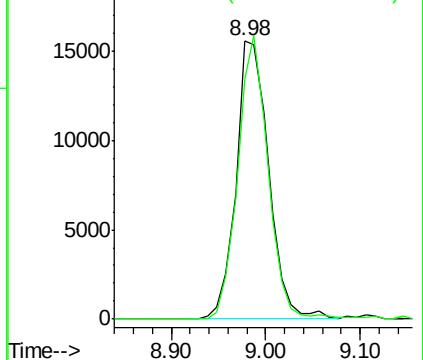
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.915 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

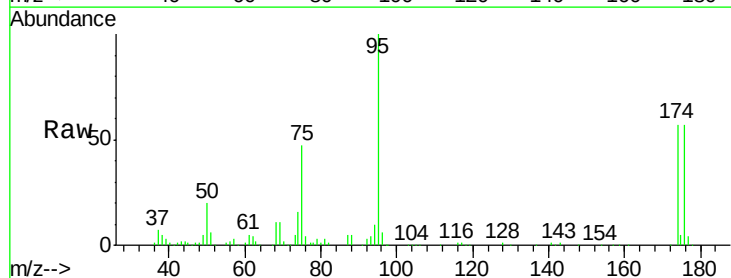
Tgt Ion: 95 Resp: 146547

Ion Ratio Lower Upper

95 100

174 57.0 0.0 130.4

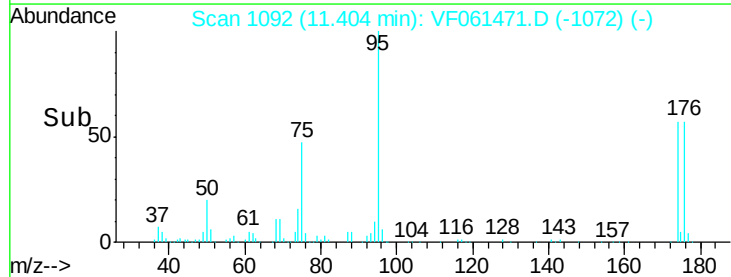
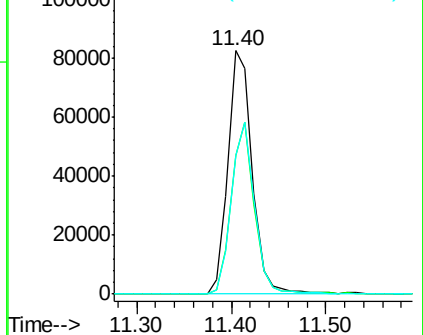
176 57.1 0.0 126.2

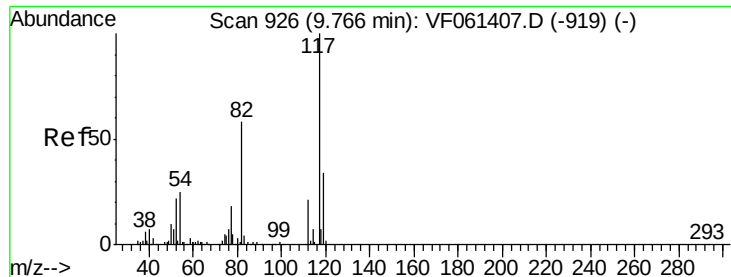


Abundance Ion 95.00 (94.70 to 95.70): VF0

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# 927

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

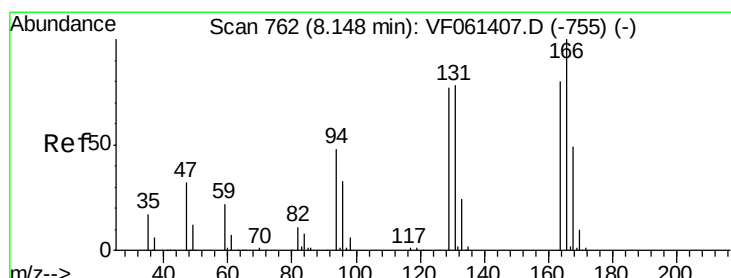
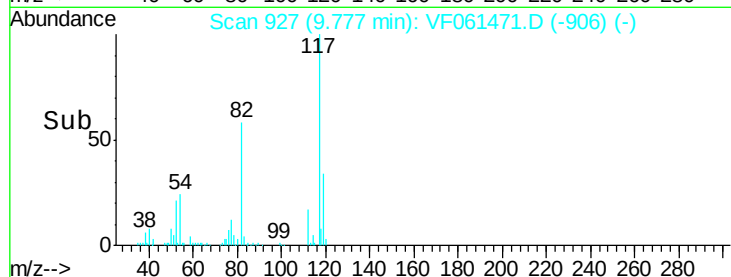
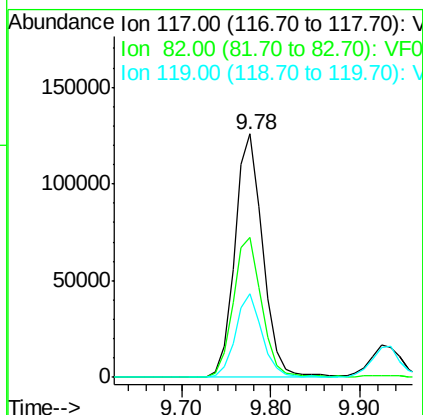
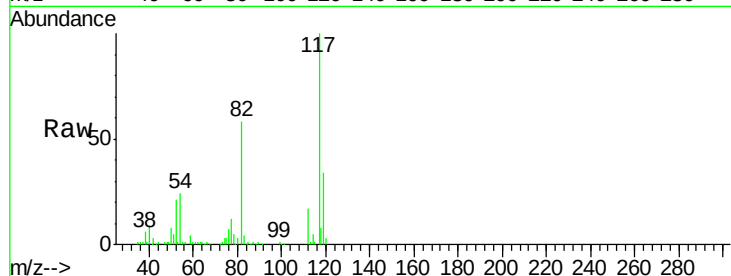
ClientSampleId :

VF0121SBS01

Tot Ion:	117	Resp:	275268
Ion Ratio	Lower	Upper	
117	100		
82	57.6	46.4	69.6
119	34.2	27.2	40.8

Manual Integrations
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#64

Tetrachloroethene

Concen: 21.980 ug/l

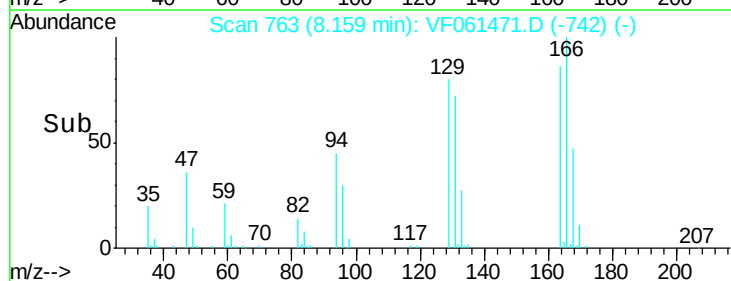
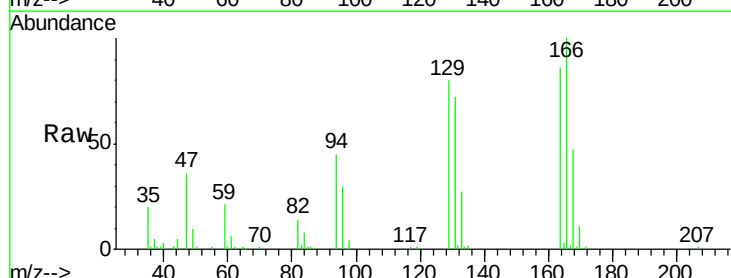
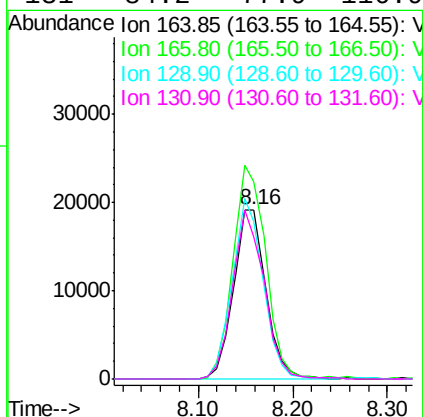
RT: 8.16 min Scan# 763

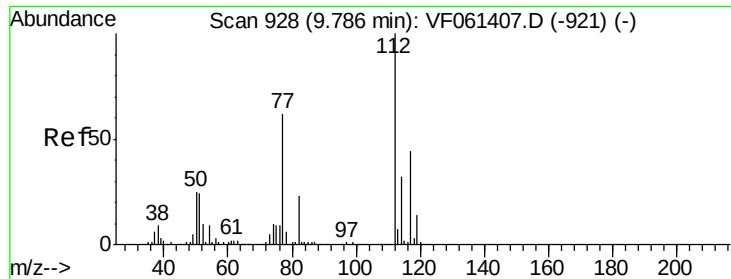
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	164	Resp:	45500
Ion Ratio	Lower	Upper	
164	100		
166	116.5	99.6	149.4
129	92.9	76.4	114.6
131	84.2	77.9	116.9





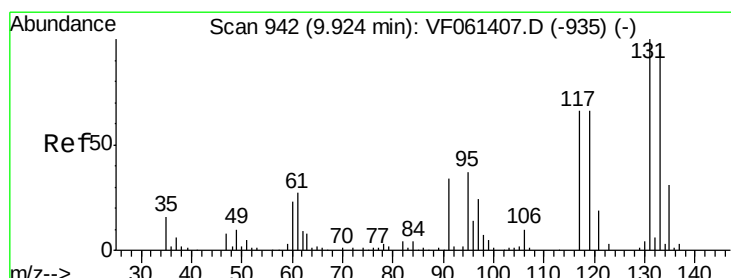
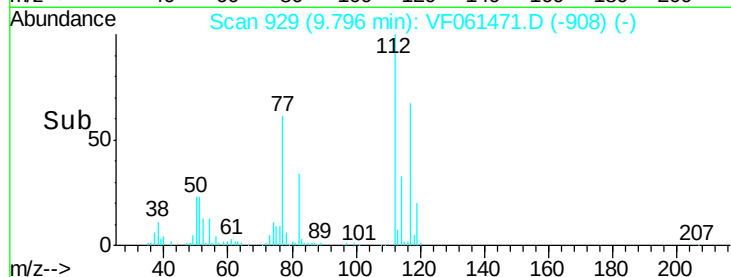
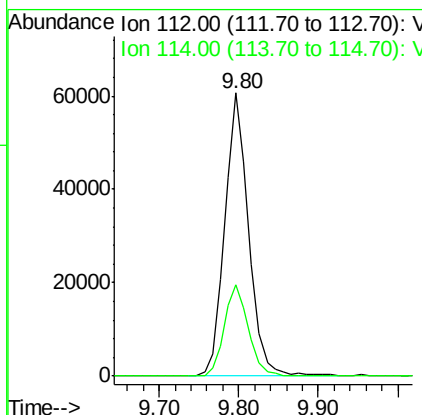
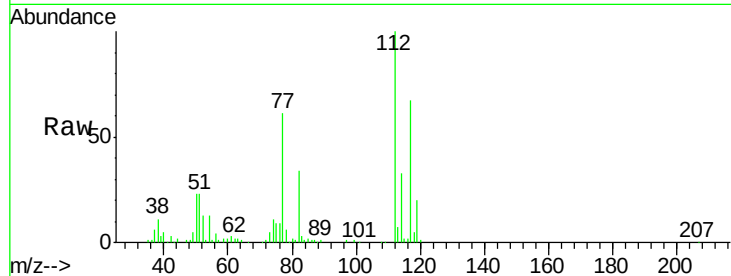
#65
Chlorobenzene
Concen: 22.876 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.5	25.4	38.0

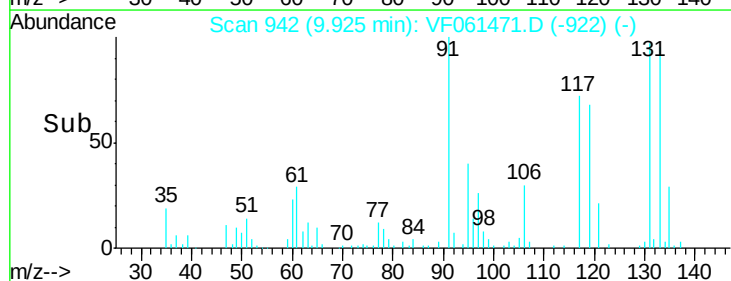
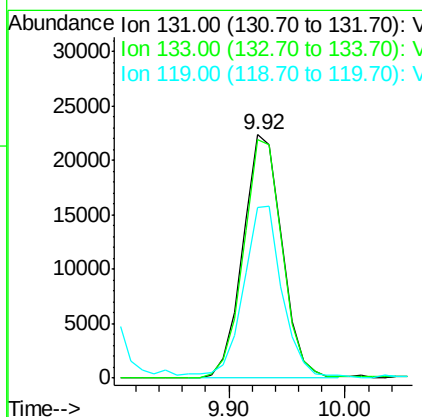
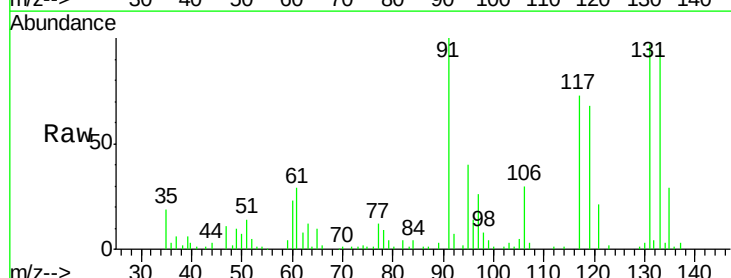
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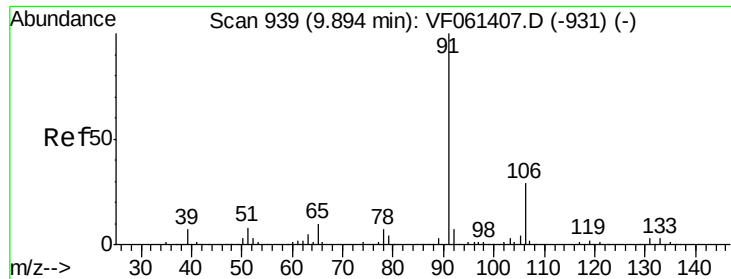
MMDadoda
1/22/2019 2:50:26 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 23.357 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.7	47.4	142.2
119	70.2	33.1	99.3





#67

Ethyl Benzene

Concen: 23.720 ug/l

RT: 9.90 min Scan# 939

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion: 91 Resp: 242593

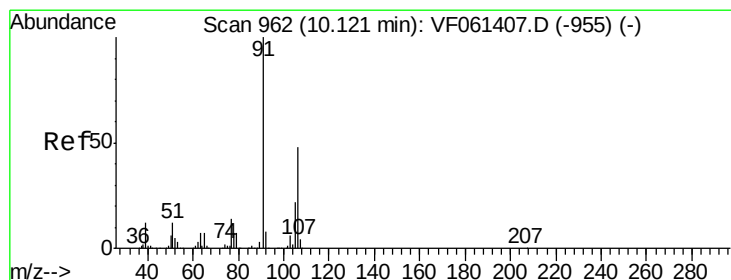
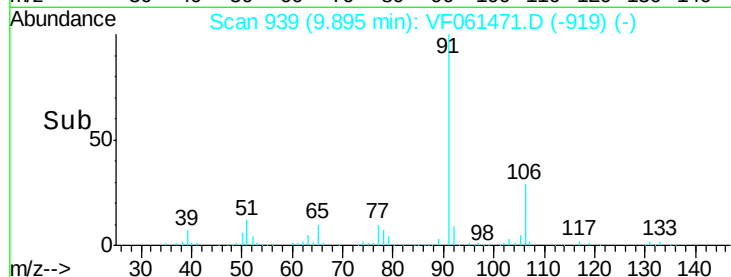
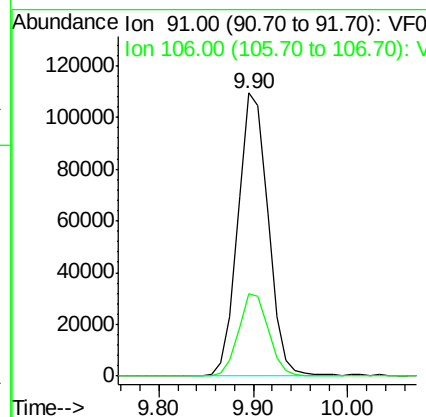
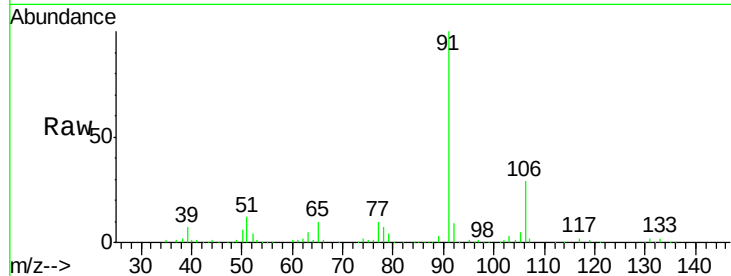
Ion Ratio Lower Upper

91 100

106 29.0 23.1 34.7

Manual Integrations
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#68

m/p-Xylenes

Concen: 48.061 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.01 min

Lab File: VF061471.D

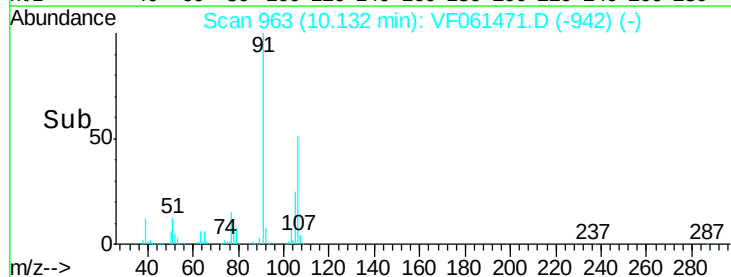
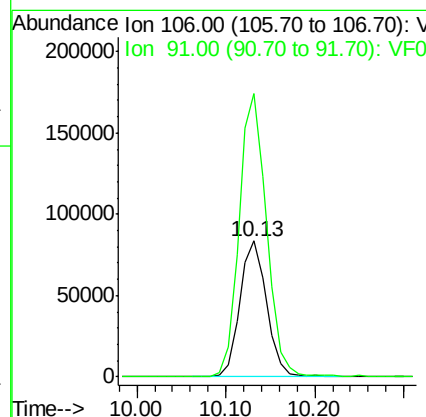
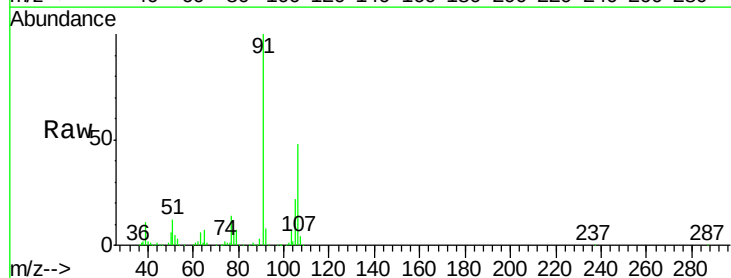
Acq: 21 Jan 2019 14:02

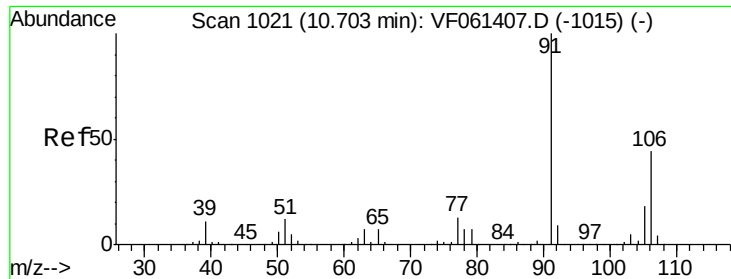
Tgt Ion: 106 Resp: 176791

Ion Ratio Lower Upper

106 100

91 207.9 166.2 249.4





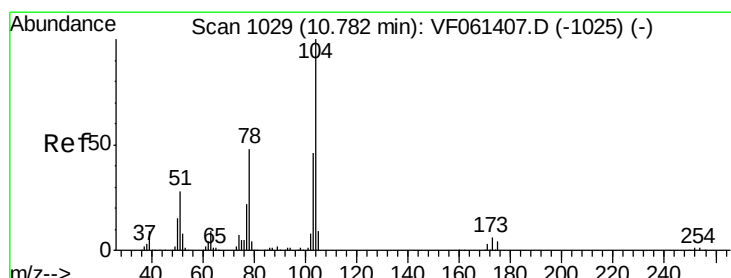
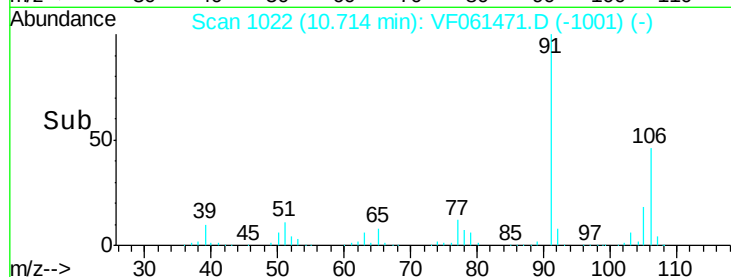
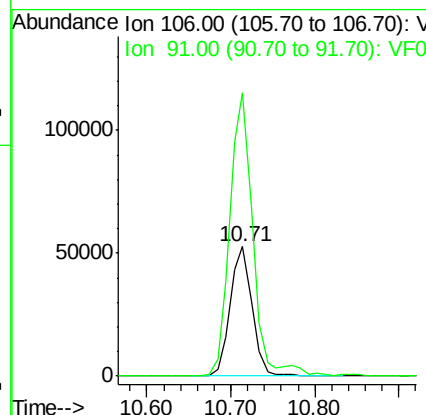
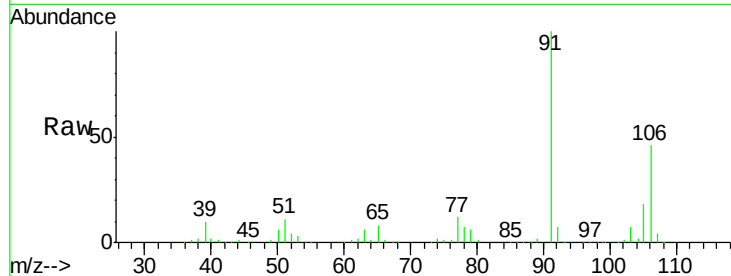
#69
o-Xylene
Concen: 24.065 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion:106 Resp: 95942
Ion Ratio Lower Upper
106 100
91 218.4 113.3 339.8

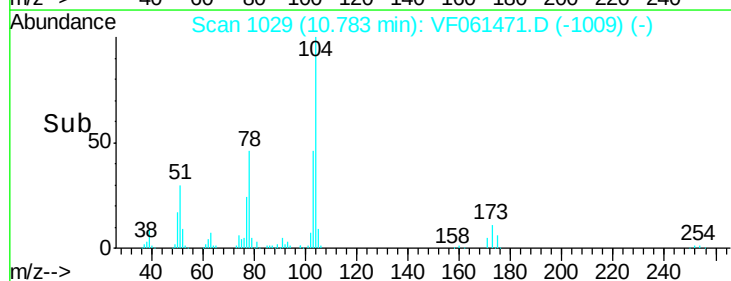
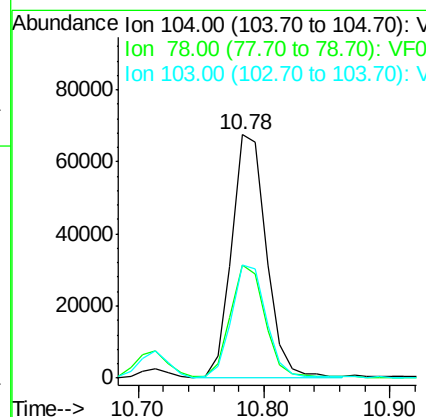
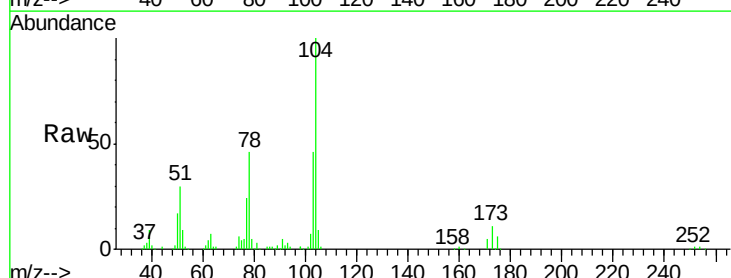
Manual Integrations
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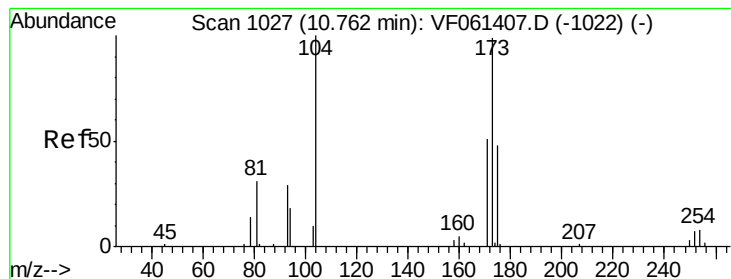
MMDadoda
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#70
Styrene
Concen: 23.430 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion:104 Resp: 127866
Ion Ratio Lower Upper
104 100
78 46.5 38.8 58.2
103 46.3 37.0 55.6





#71

Bromoform

Concen: 22.337 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion:173 Resp: 22380

Ion Ratio Lower Upper

173 100

175 49.6 24.1 72.4

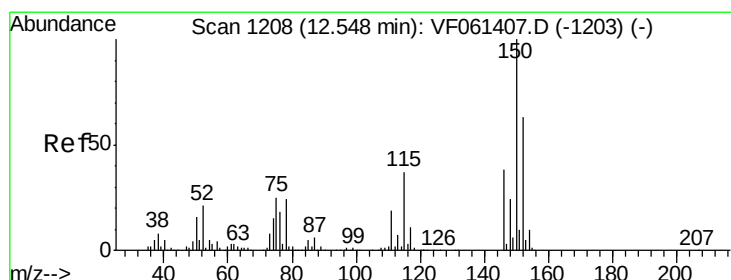
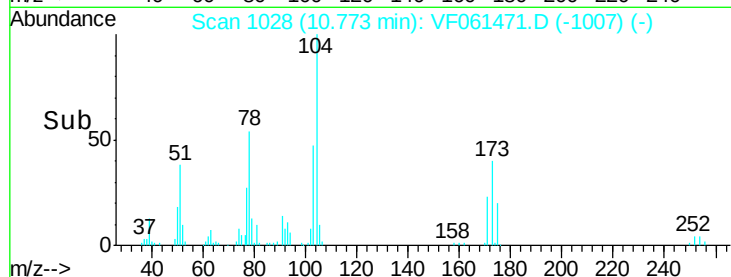
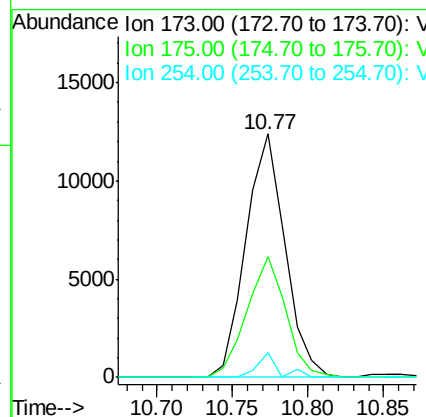
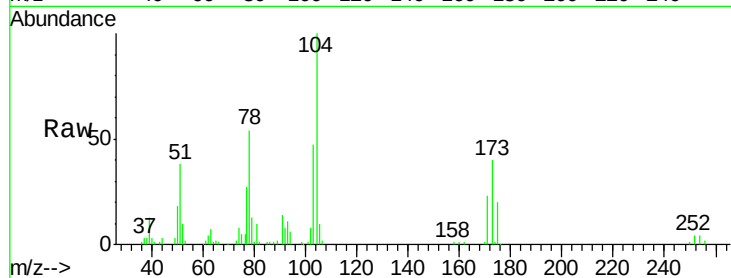
254 10.0 0.0 0.0#

Manual Integrations

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

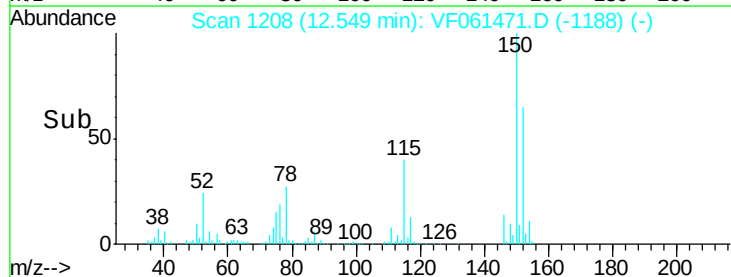
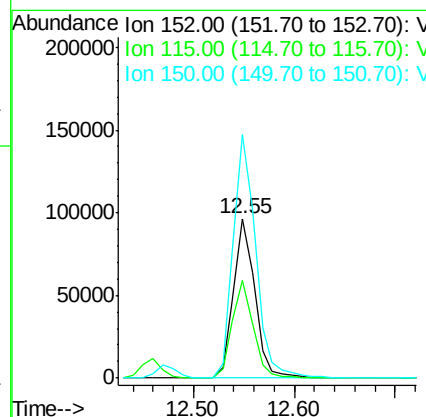
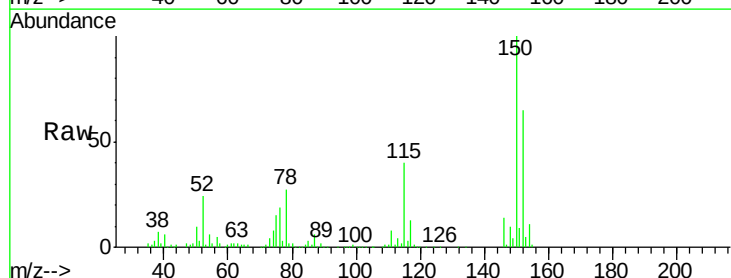
Tgt Ion:152 Resp: 142969

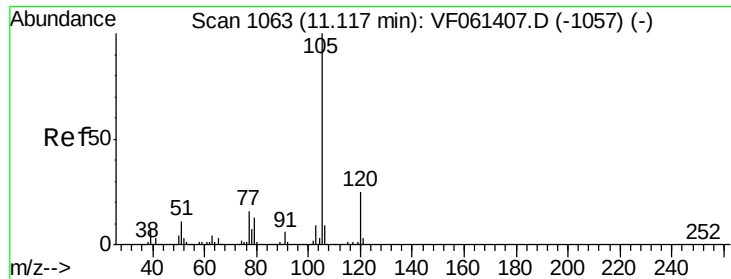
Ion Ratio Lower Upper

152 100

115 61.7 30.0 90.0

150 152.9 0.0 321.4





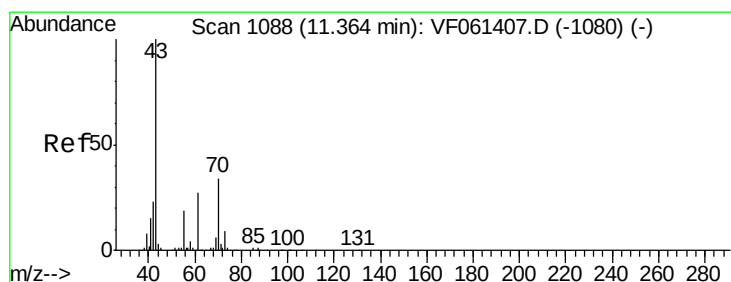
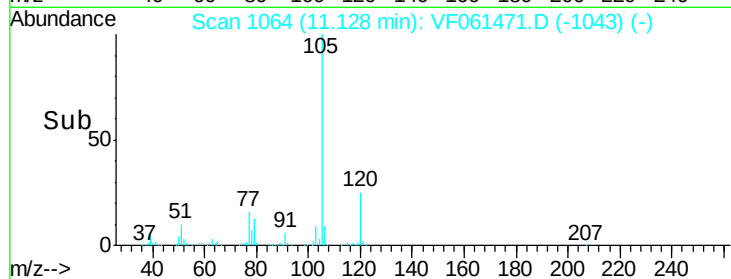
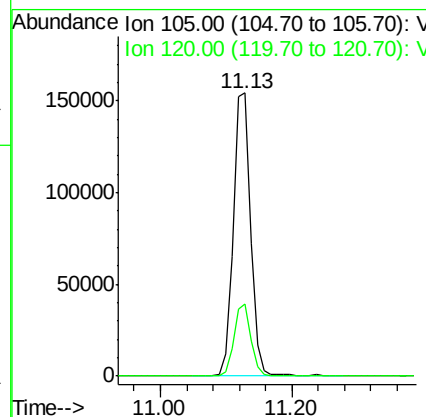
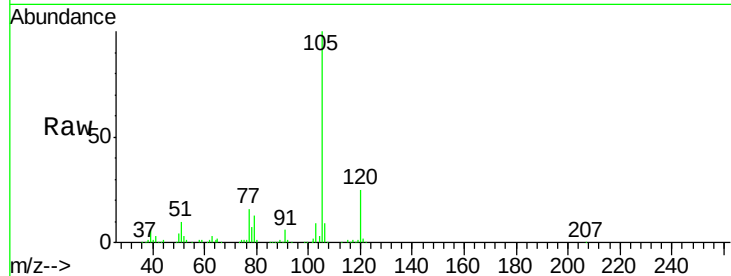
#73
Isopropylbenzene
Concen: 24.682 ug/l
RT: 11.13 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion:105 Resp: 287003
Ion Ratio Lower Upper
105 100
120 25.5 12.6 37.8

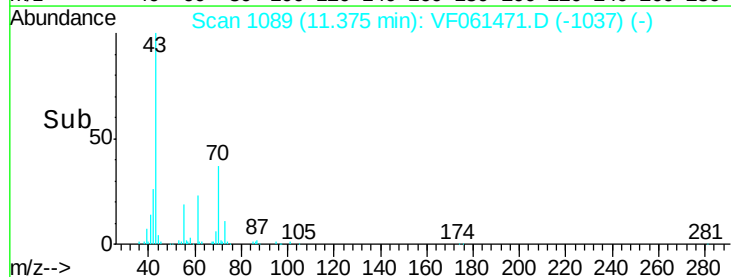
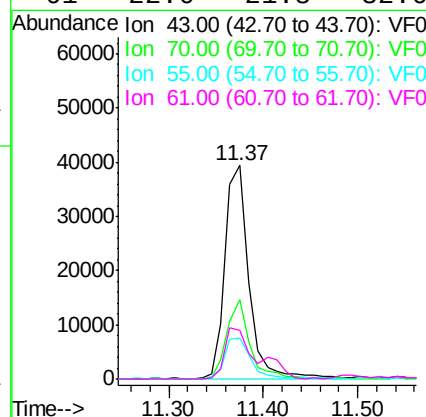
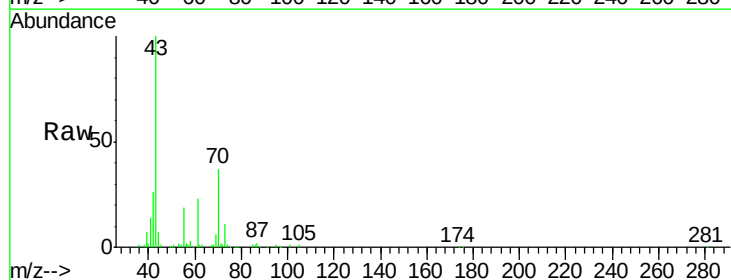
Manual Integrations
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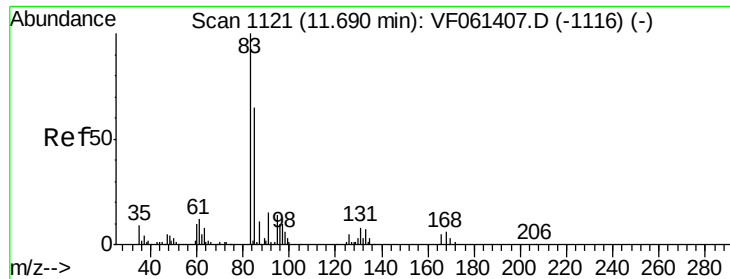
MMDadoda
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#74
N-ethyl acetate
Concen: 25.230 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion: 43 Resp: 69372
Ion Ratio Lower Upper
43 100
70 36.9 27.6 41.4
55 19.2 15.4 23.2
61 22.6 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 23.583 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

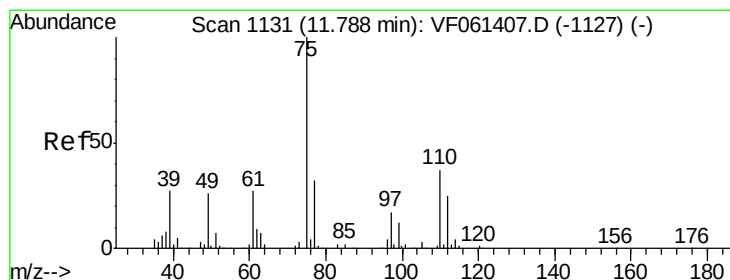
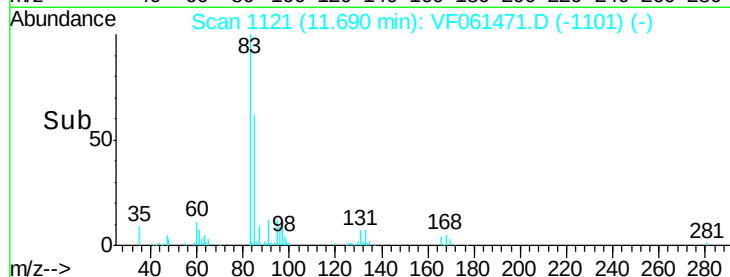
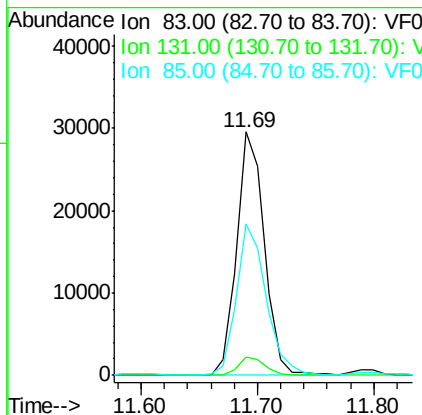
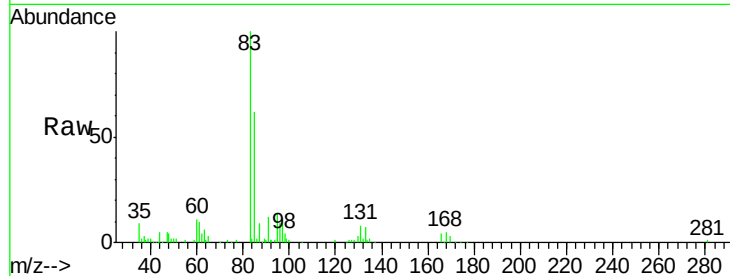
ClientSampleId :

VF0121SBS01

Tot Ion:	83	Resp:	48852
Ion Ratio	Lower	Upper	
83	100		
131	7.7	4.0	12.2
85	62.4	32.7	98.1

Manual Integrations
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1/22/2019 2:50:26 PM



#76

1,2,3-Trichloropropane

Concen: 22.238 ug/l

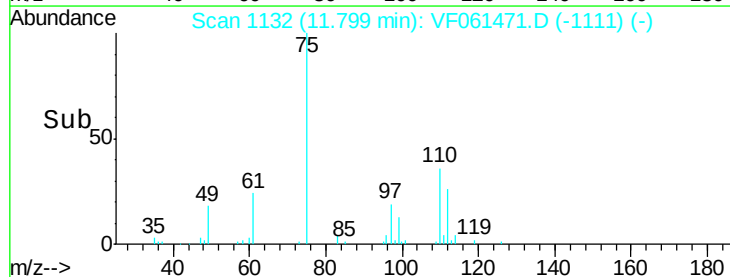
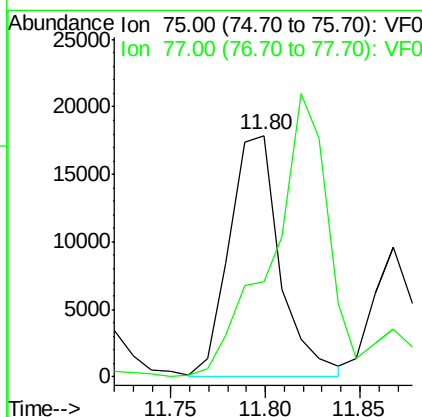
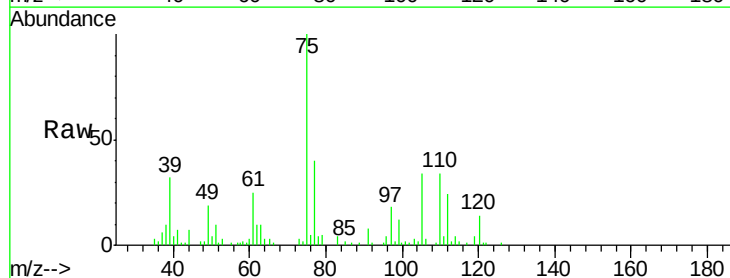
RT: 11.80 min Scan# 1132

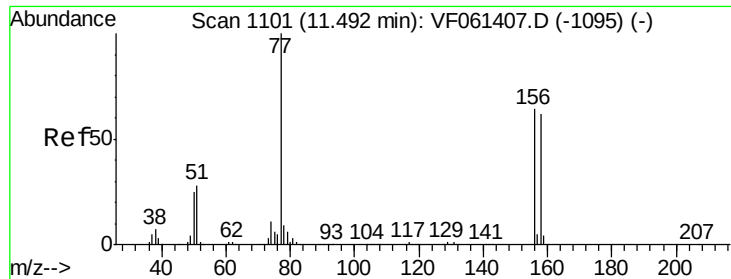
Delta R.T. 0.01 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	75	Resp:	33101
Ion Ratio	Lower	Upper	
75	100		
77	39.7	16.1	48.3





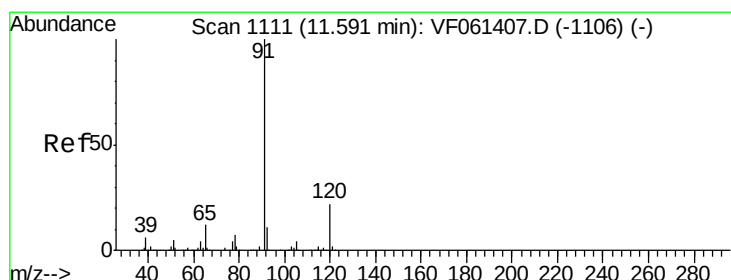
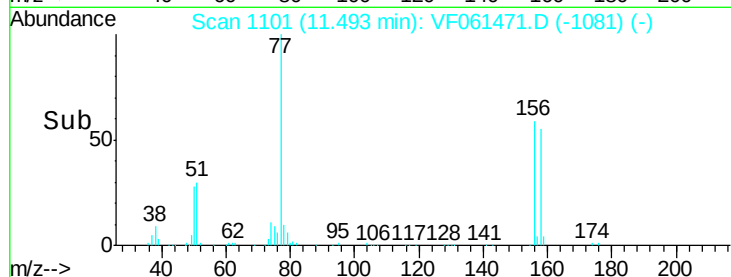
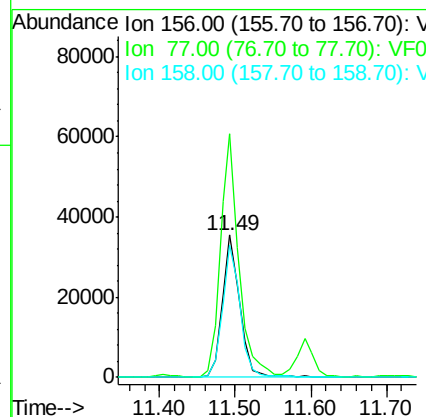
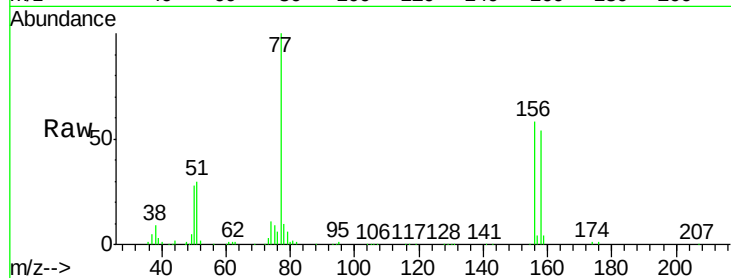
#77
Bromobenzene
Concen: 23.656 ug/l
RT: 11.49 min Scan# 1101
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	171.3	78.3	234.9	
158	93.1	48.9	146.7	

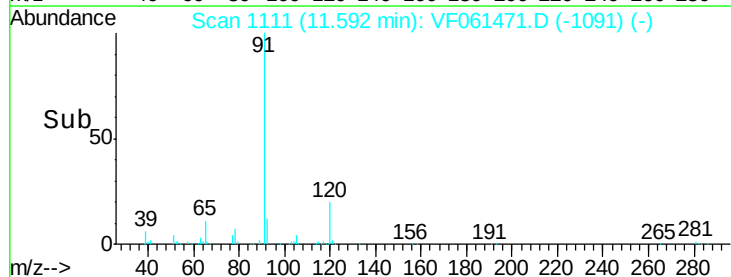
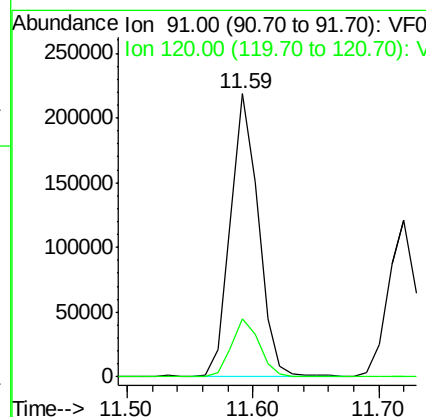
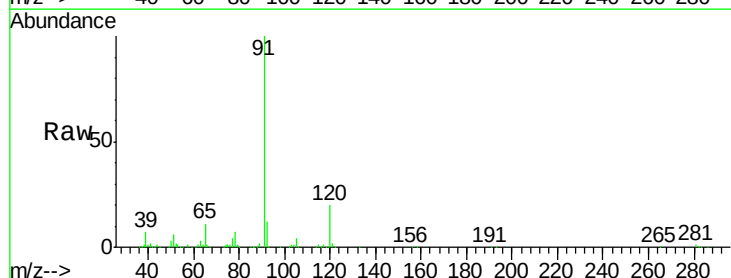
Manual Integrations
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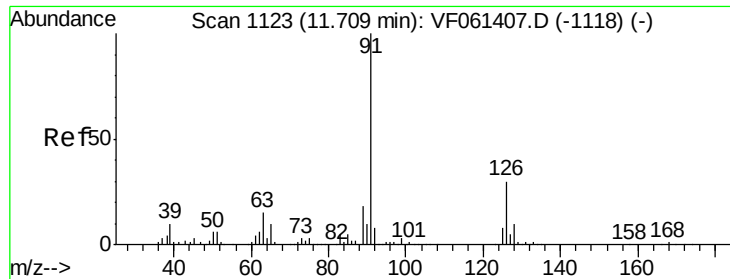
MMDadoda
1/22/2019 2:50:26 PM



#78
n-propylbenzene
Concen: 22.198 ug/l
RT: 11.59 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.3	10.9	32.6	





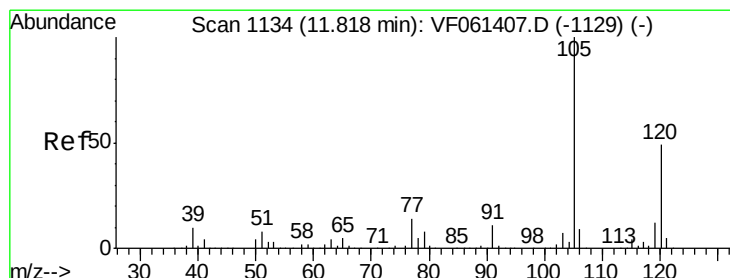
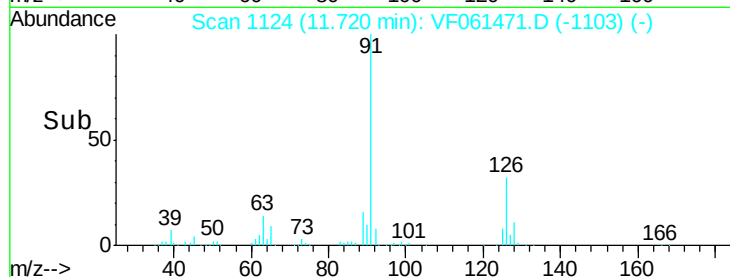
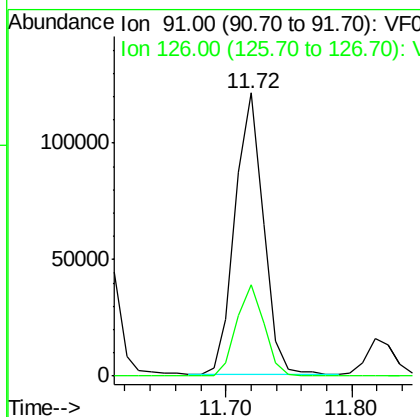
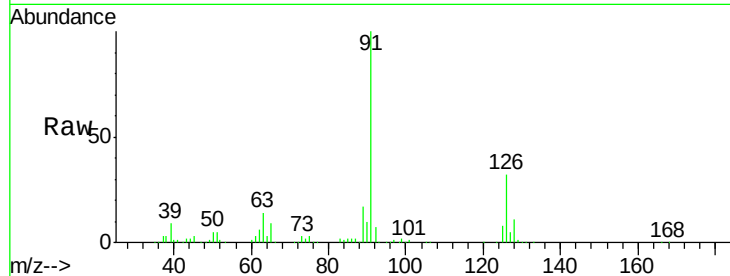
#79
2-Chlorotoluene
Concen: 23.229 ug/l
RT: 11.72 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion: 91 Resp: 187409
Ion Ratio Lower Upper
91 100
126 32.2 15.0 45.1

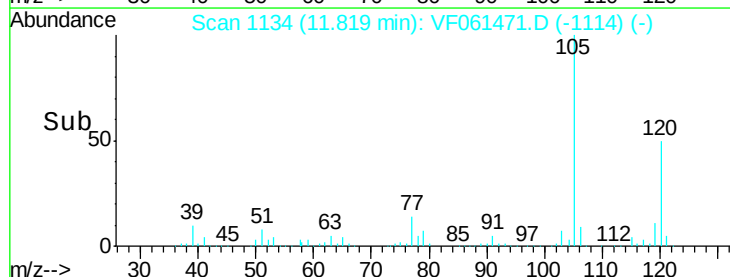
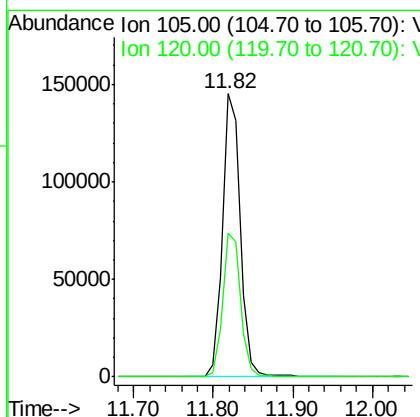
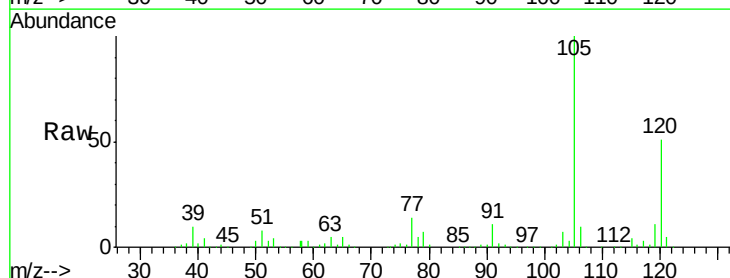
Manual Integrations
APPROVED

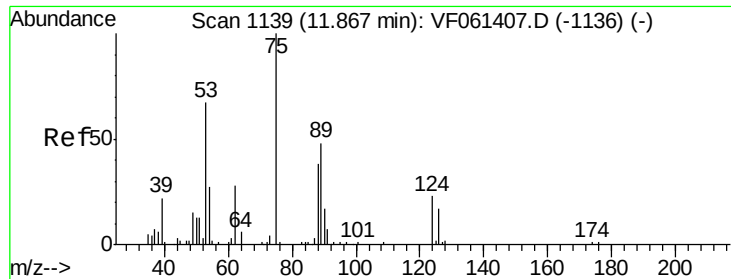
MMDadoda
1/22/2019 2:50:26 PM



#80
1,3,5-Trimethylbenzene
Concen: 24.638 ug/l
RT: 11.82 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion:105 Resp: 231197
Ion Ratio Lower Upper
105 100
120 50.8 24.7 74.1





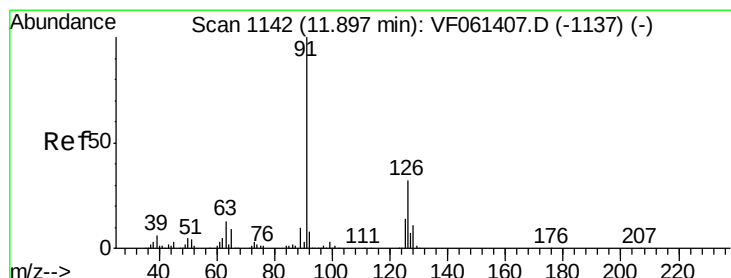
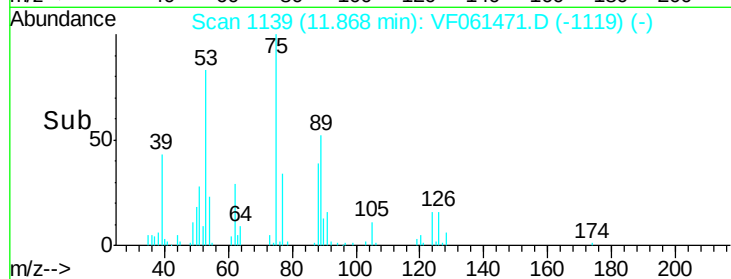
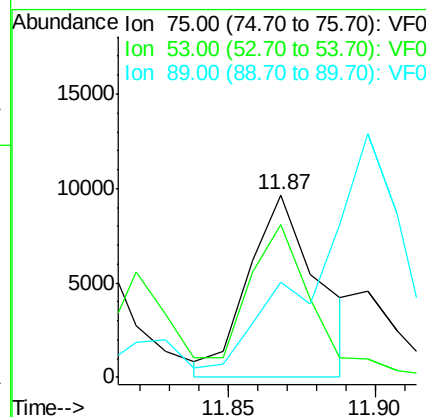
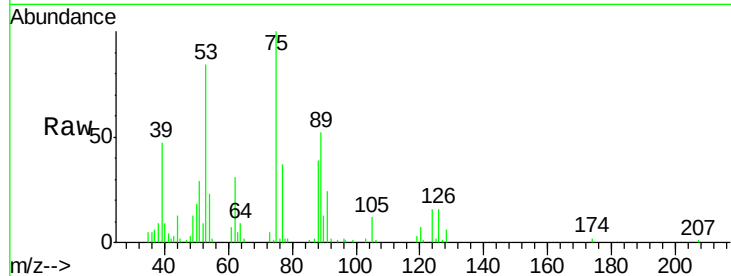
#81
trans-1,4-Dichloro-2-butene
Concen: 24.586 ug/l m
RT: 11.87 min Scan# 1139
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	83.8	57.8	86.6
89	52.3	40.7	61.1

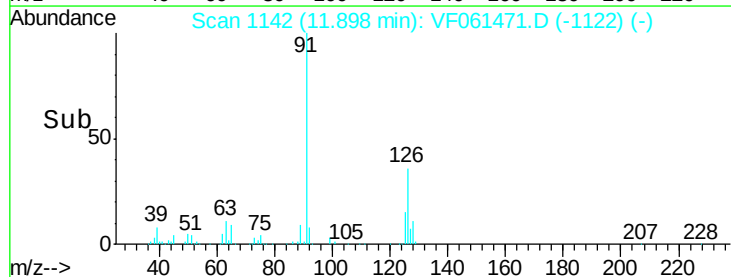
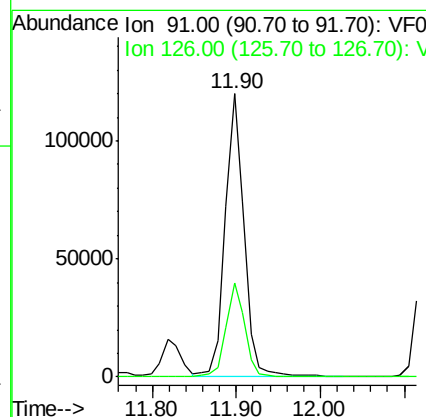
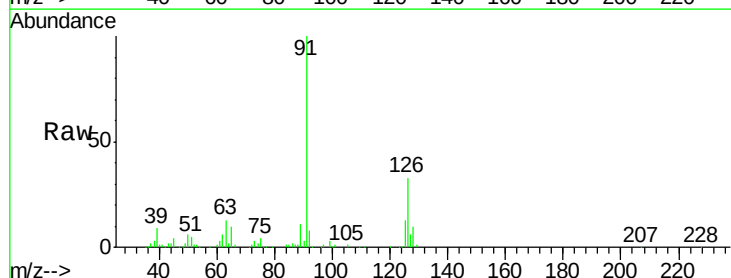
Manual Integrations
APPROVED

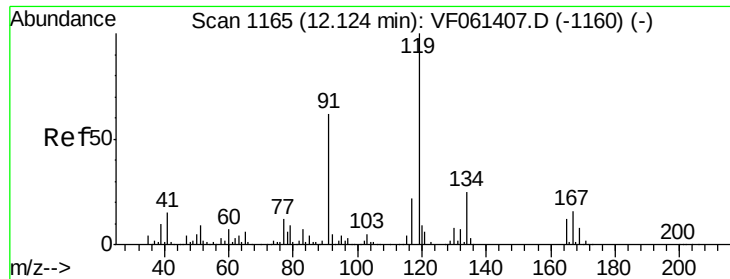
MMDadoda
1/22/2019 2:50:26 PM



#82
4-Chlorotoluene
Concen: 22.750 ug/l
RT: 11.90 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.0	47.9





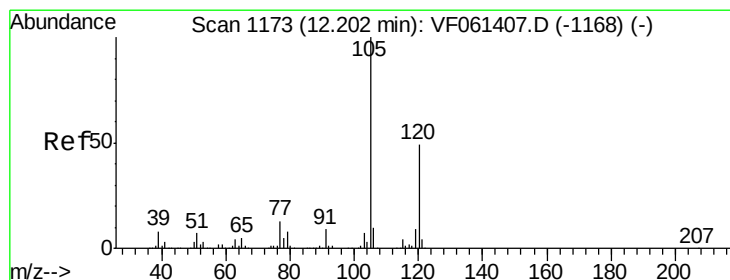
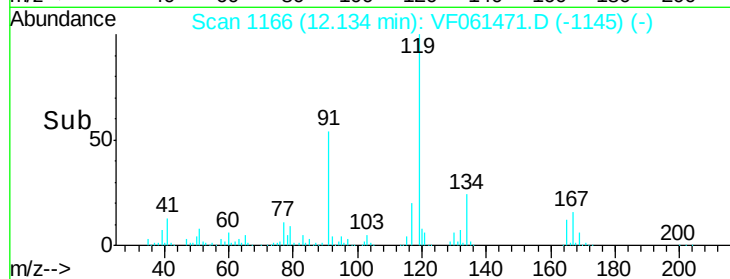
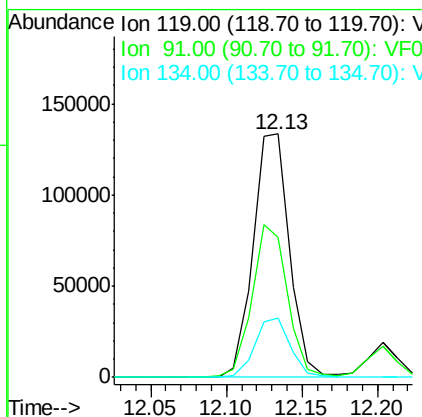
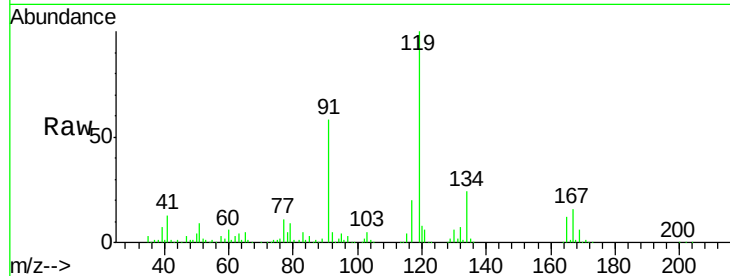
#83
tert-Butylbenzene
Concen: 23.157 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. 0.01 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS001

Tot Ion	Ratio	Resp	Lower	Upper
119	100	224918		
91	57.5		31.3	93.8
134	24.1		12.4	37.0

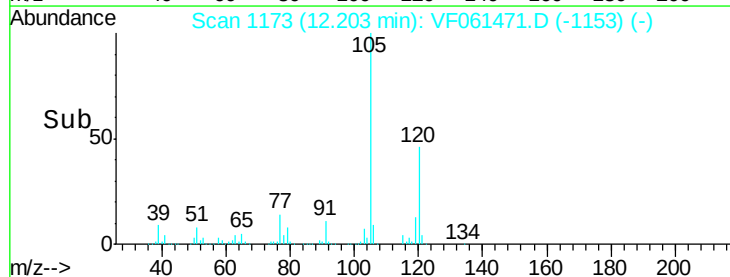
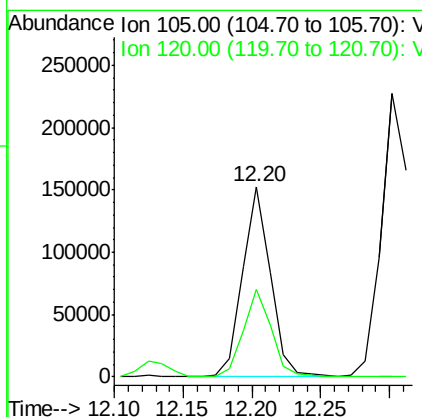
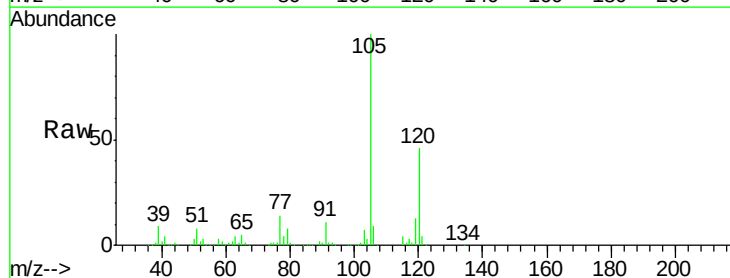
Manual Integrations
APPROVED

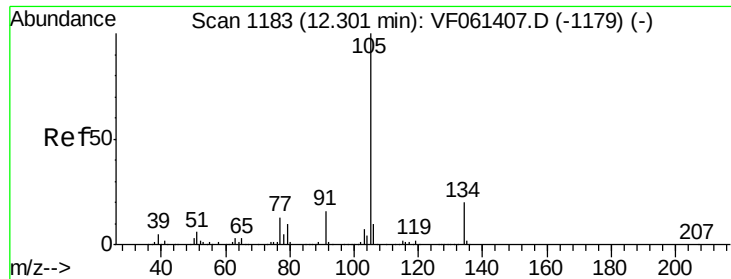
MMDadoda
1/22/2019 2:50:26 PM



#84
1,2,4-Trimethylbenzene
Concen: 22.480 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	217287		
120	46.2		24.9	74.6





#85

sec-Butylbenzene

Concen: 25.198 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

VF0121SBS01

Tot Ion:105 Resp: 332358

Ion Ratio Lower Upper

105 100

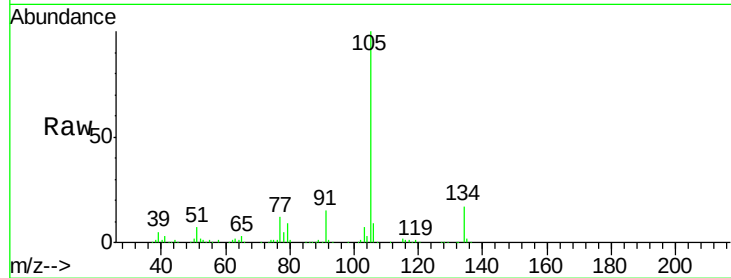
134 17.0 10.0 30.0

Manual Integrations

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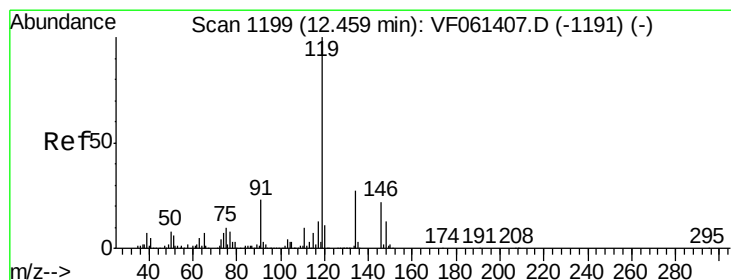
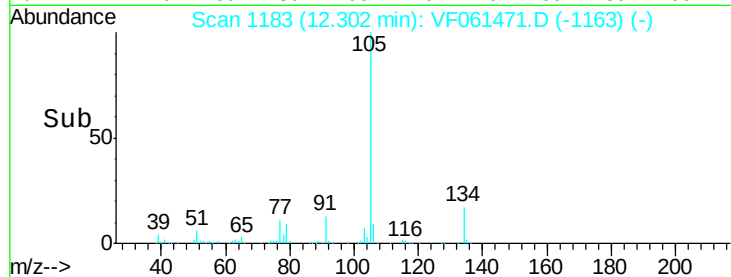
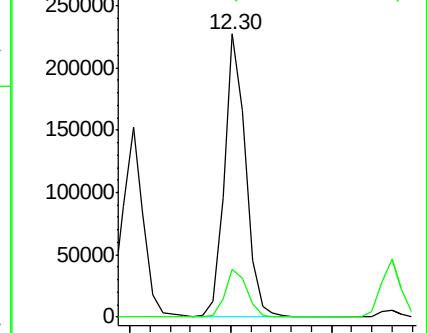
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 24.368 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

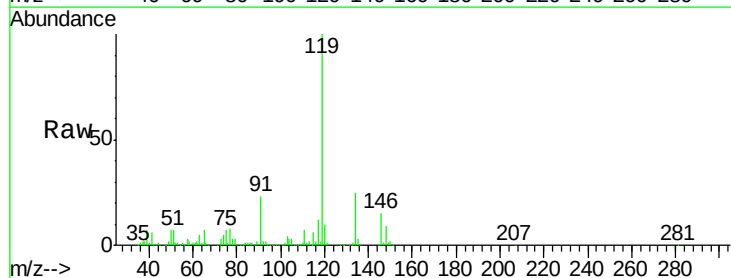
Tgt Ion:119 Resp: 263847

Ion Ratio Lower Upper

119 100

134 24.8 13.4 40.2

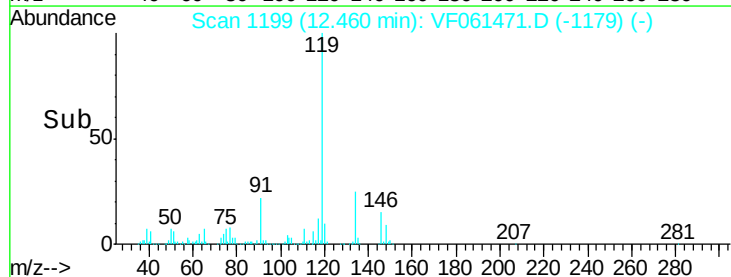
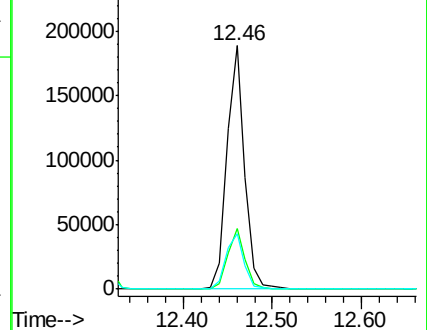
91 22.6 11.4 34.2

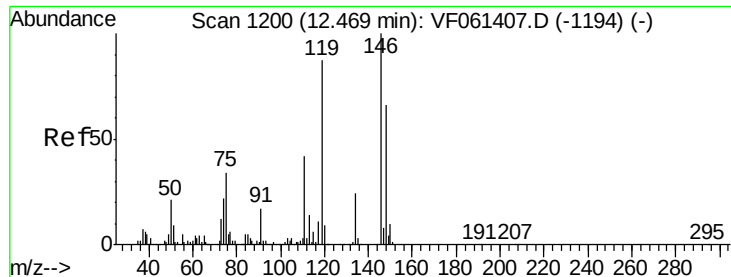


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 21.266 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

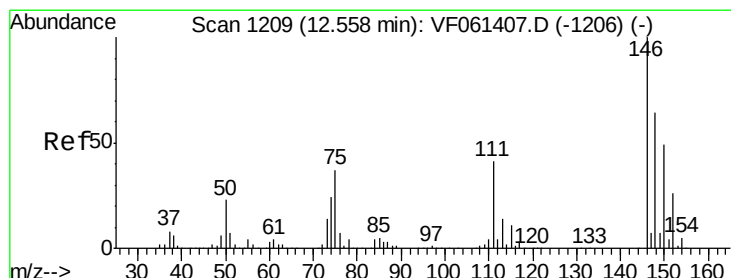
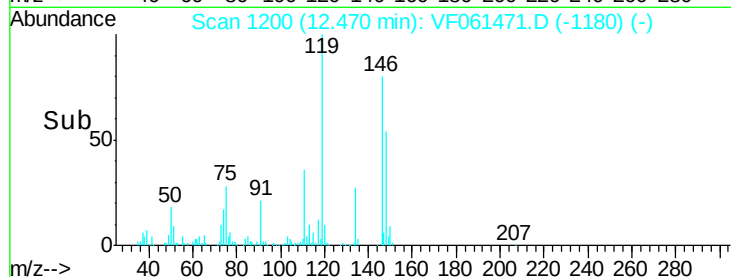
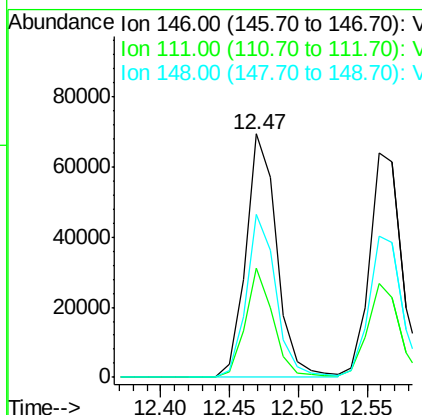
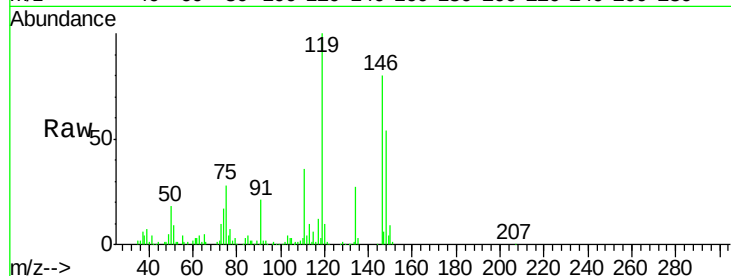
ClientSampleId :

VF0121SBS01

Tot Ion:	146	Resp:	109559
Ion Ratio	Lower	Upper	
146	100		
111	44.6	21.1	63.4
148	66.8	32.9	98.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 22.741 ug/l

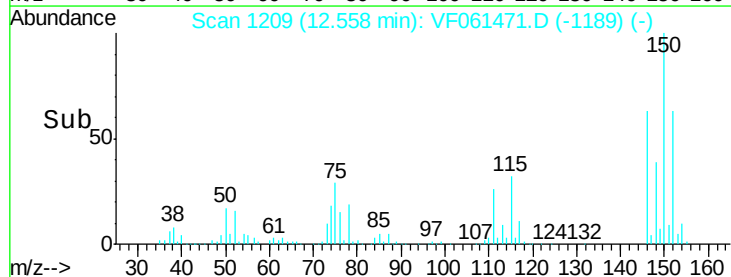
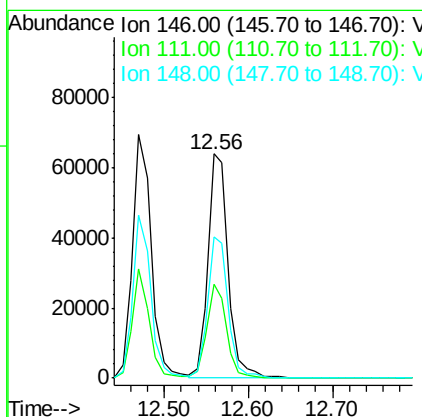
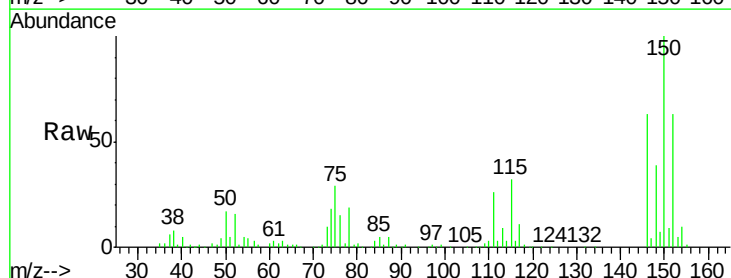
RT: 12.56 min Scan# 1209

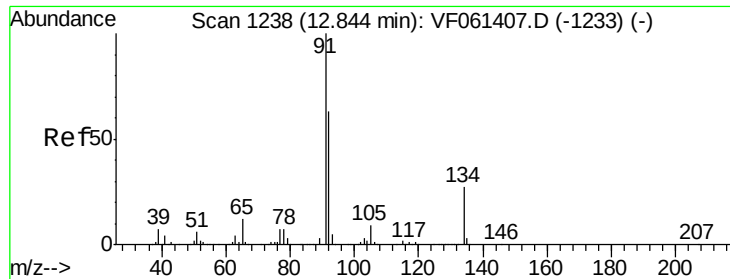
Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	146	Resp:	105530
Ion Ratio	Lower	Upper	
146	100		
111	42.0	20.8	62.2
148	63.0	32.1	96.5





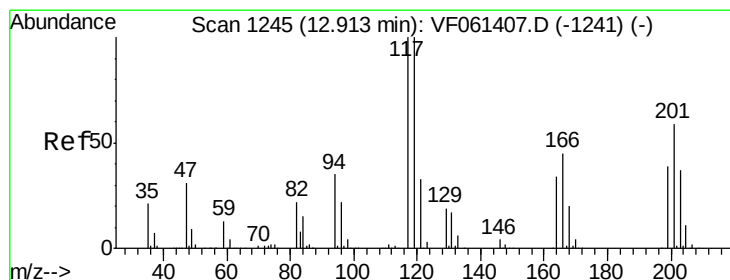
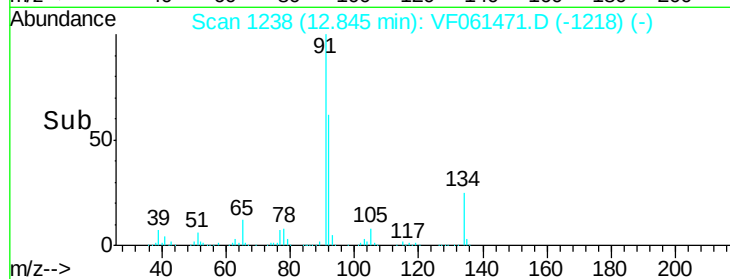
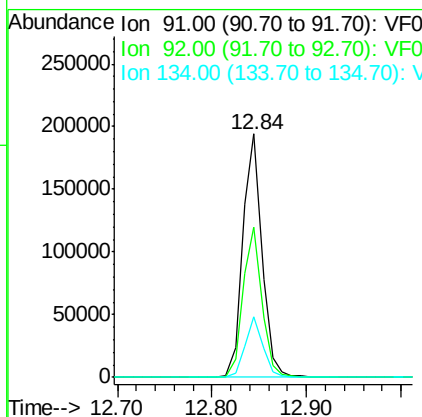
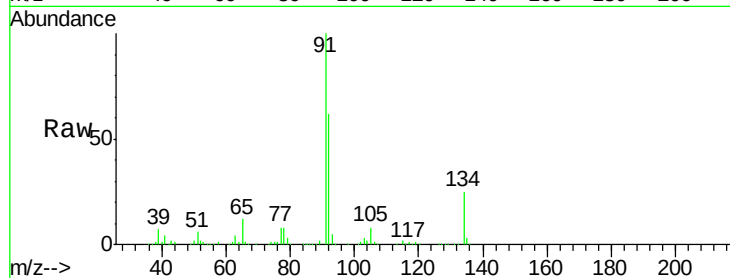
#89
n-Butylbenzene
Concen: 24.404 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
VF0121SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.8	31.6	94.7
134	25.1	13.6	40.8

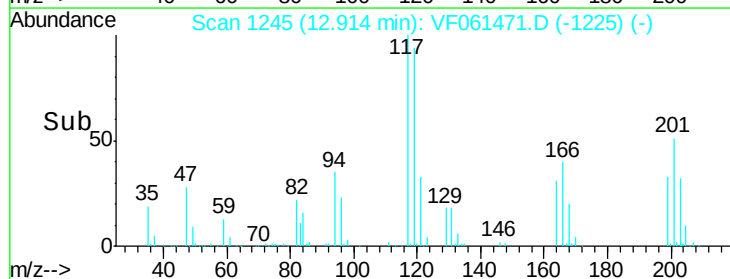
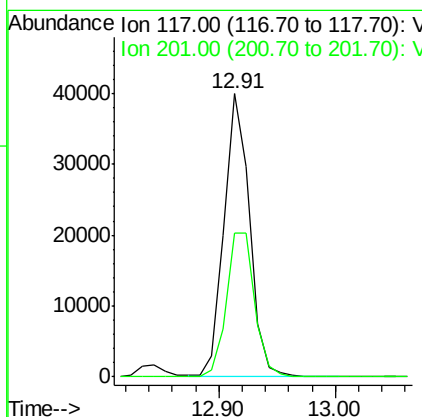
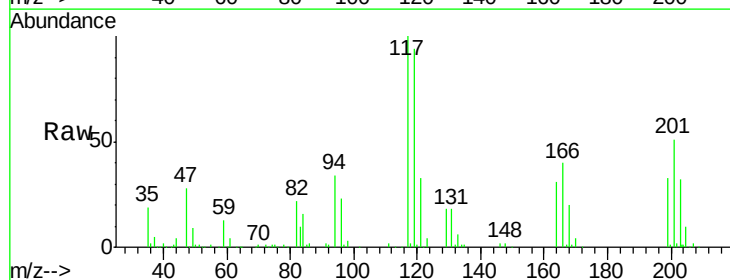
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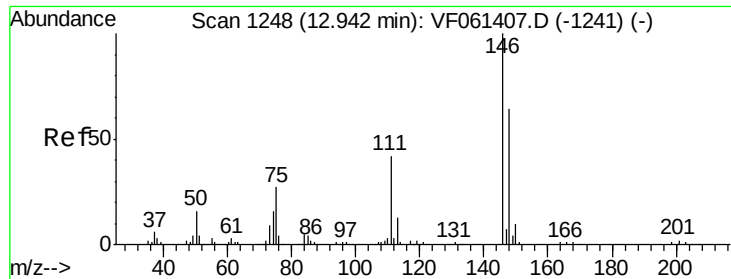
MMDadoda
1/22/2019 2:50:26 PM



#90
Hexachloroethane
Concen: 23.769 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF061471.D
Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	50.6	29.3	87.8





#91

1,2-Dichlorobenzene

Concen: 22.058 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

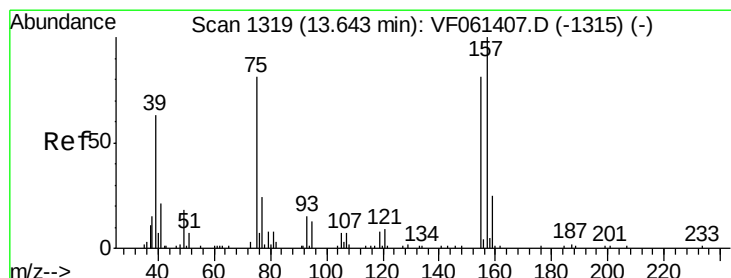
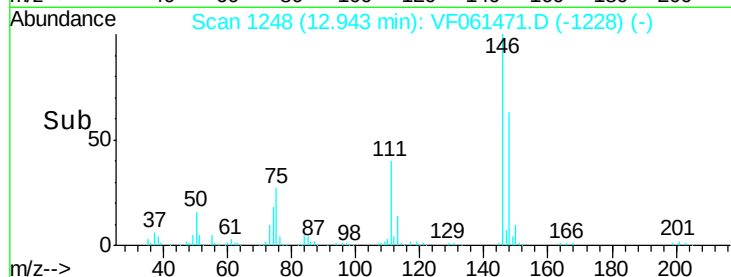
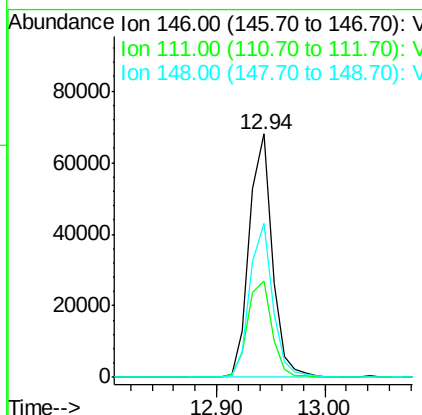
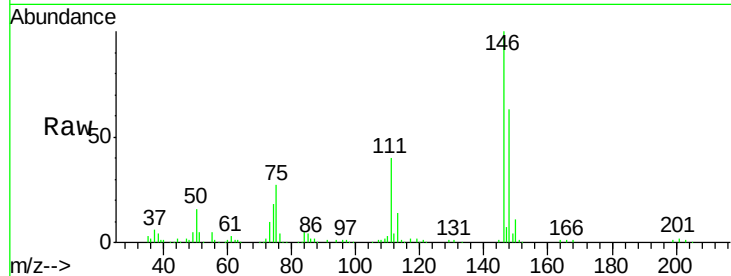
ClientSampleId :

VF0121SBS01

Tot Ion:	146	Resp:	101331
Ion Ratio	Lower	Upper	
146	100		
111	39.5	21.1	63.3
148	63.0	31.9	95.7

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 20.609 ug/l

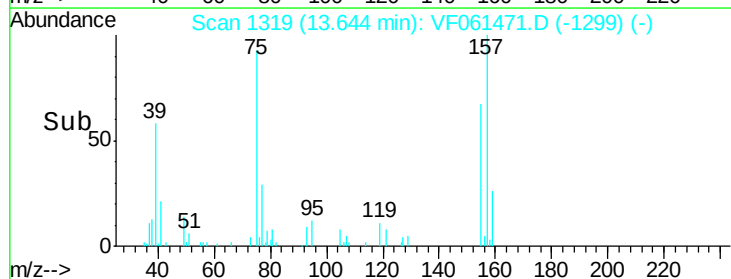
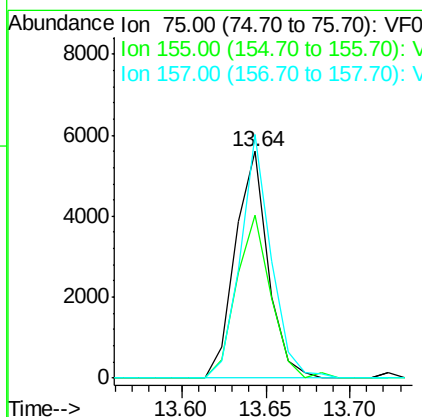
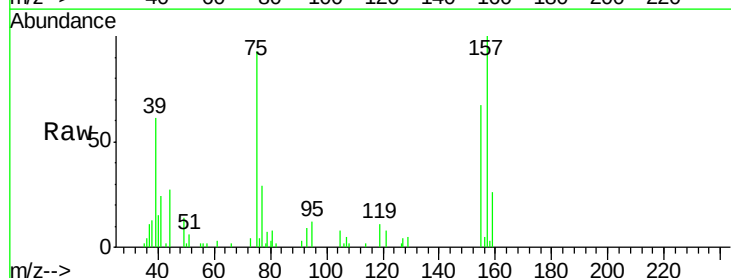
RT: 13.64 min Scan# 1319

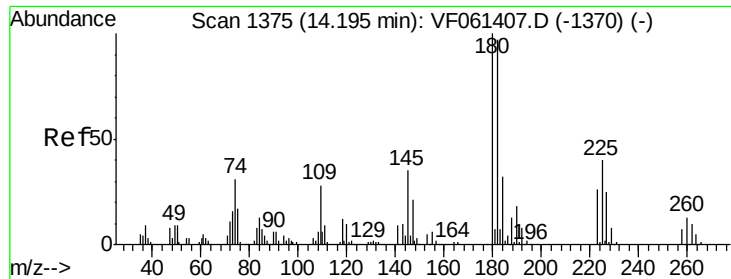
Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	75	Resp:	7572
Ion Ratio	Lower	Upper	
75	100		
155	71.9	49.7	149.1
157	107.4	61.4	184.1





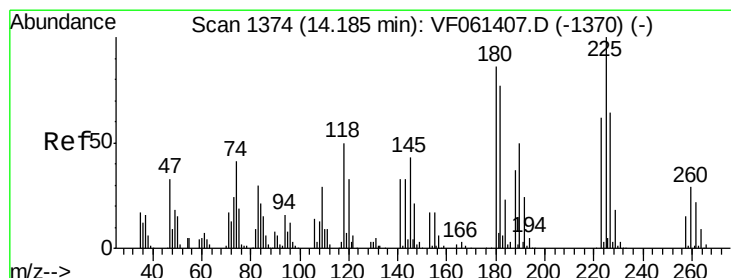
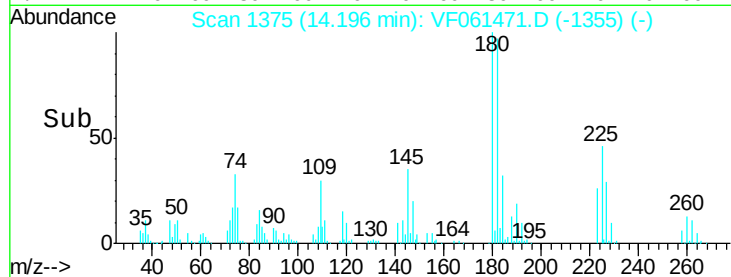
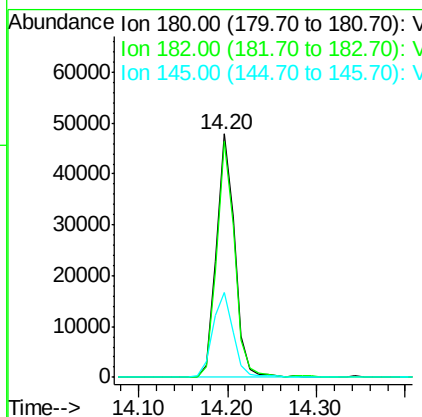
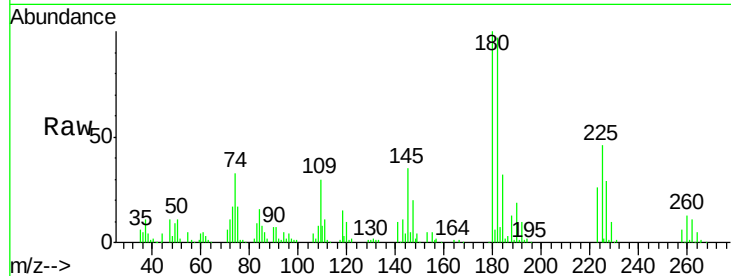
#93
 1,2,4-Trichlorobenzene
 Concen: 21.543 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061471.D
 Acq: 21 Jan 2019 14:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0121SBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	48.5	145.6
145	35.0	17.5	52.6

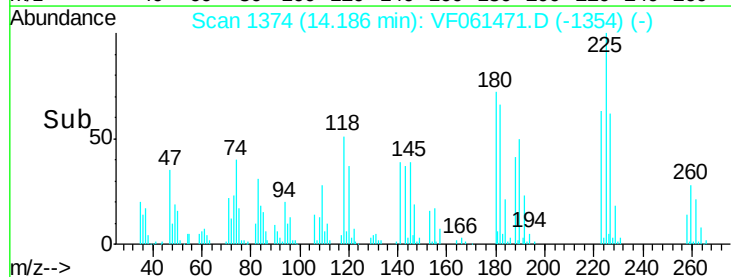
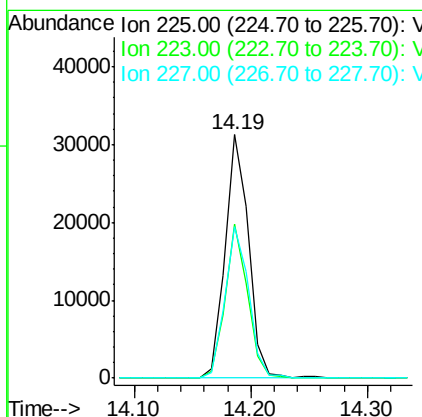
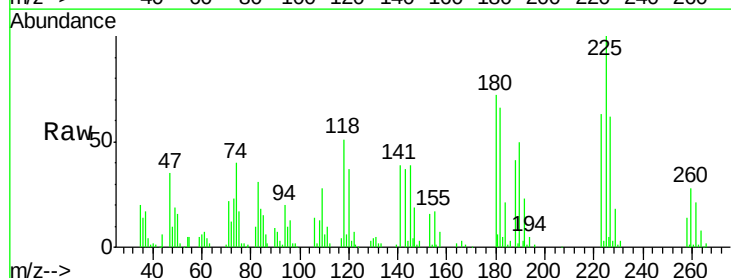
Manual Integrations
 APPROVED

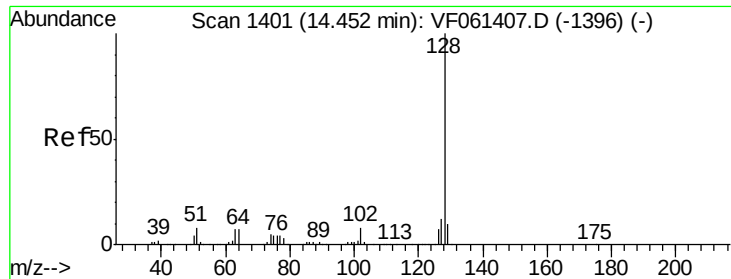
MMDadoda
 1/22/2019 2:50:26 PM



#94
 Hexachlorobutadiene
 Concen: 21.758 ug/l
 RT: 14.19 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VF061471.D
 Acq: 21 Jan 2019 14:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.1	93.2
227	62.2	32.2	96.6





#95

Naphthalene

Concen: 19.335 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Instrument :

MSVOA_F

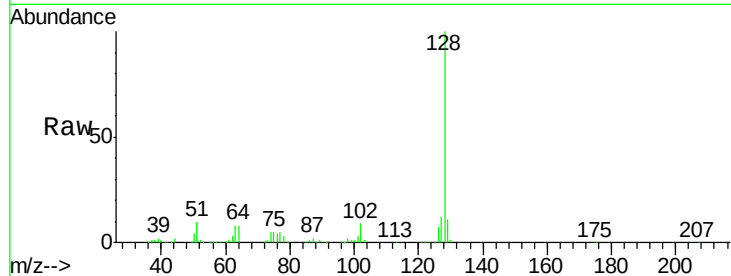
ClientSampleId :

VF0121SBS01

Tot Ion:	128	Resp:	118215
Ion Ratio		Lower	Upper
128	100		
127	11.6	9.5	14.3
129	11.3	8.4	12.6

Manual Integrations
APPROVED

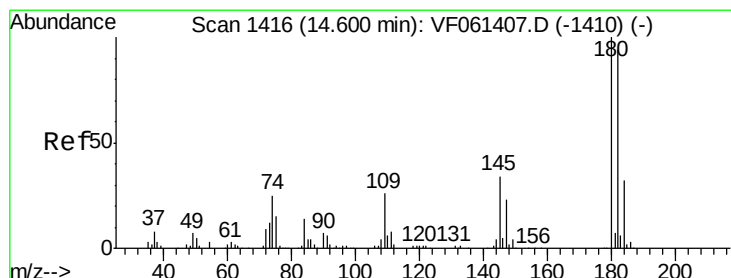
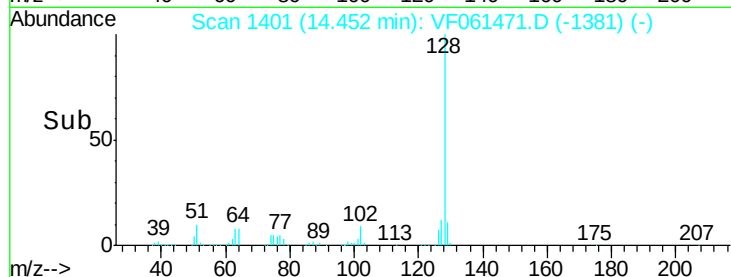
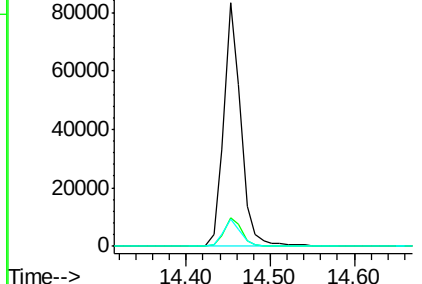
MMDadoda
1/22/2019 2:50:26 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 18.849 ug/l

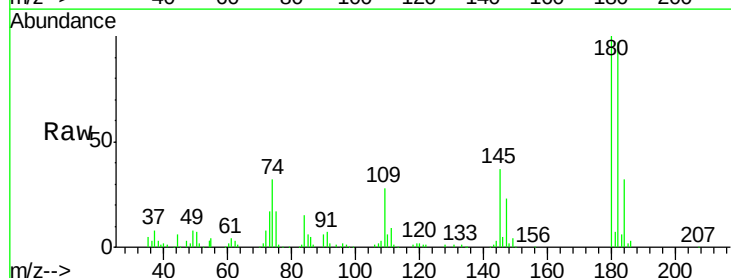
RT: 14.60 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VF061471.D

Acq: 21 Jan 2019 14:02

Tgt Ion:	180	Resp:	56151
Ion Ratio		Lower	Upper
180	100		
182	97.1	47.0	141.2
145	37.4	17.1	51.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

